

## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

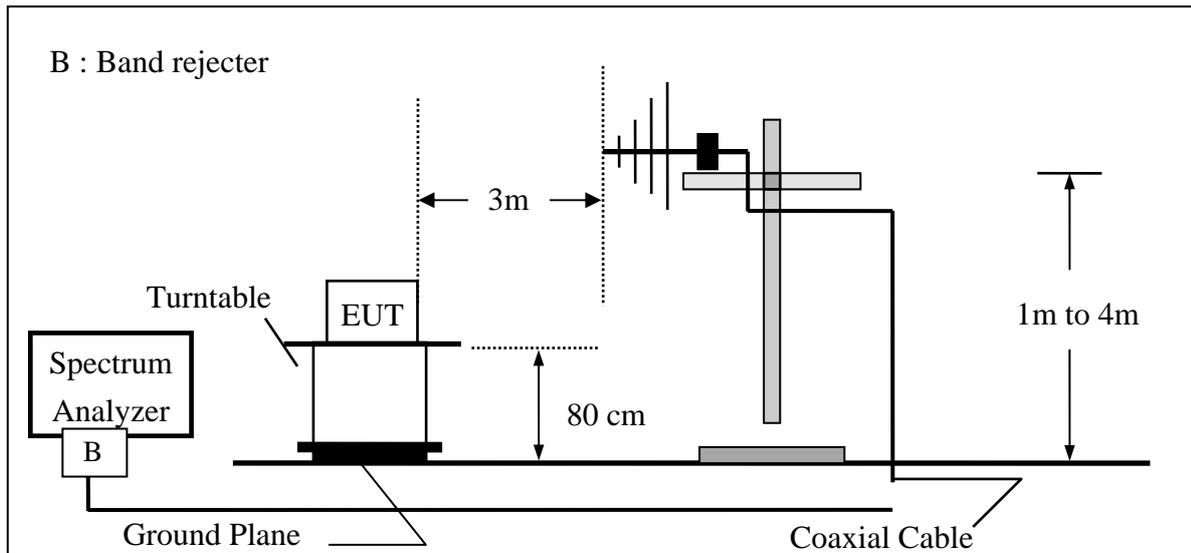
### 10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(g) (h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm). §27.53 (m) (4) shall not be less than  $55 + 10 \log$  (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

### 10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz

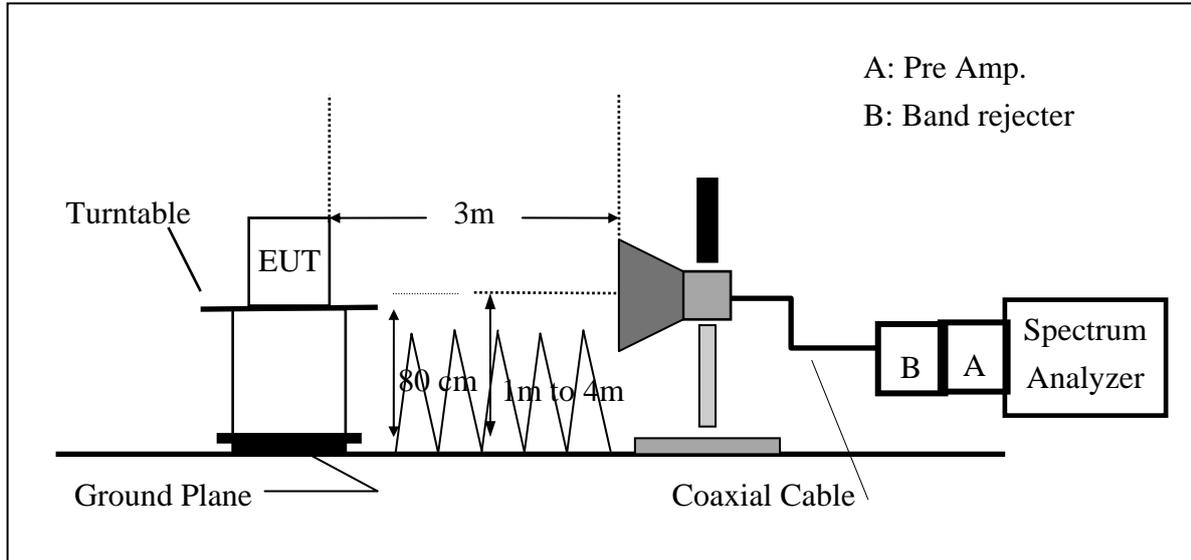


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Radiated Emission Test Set-UP Frequency Over 1 GHz



10.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 676

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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 128	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	S	-54.13	-51.87	-1.09	-1.17	-13.00	-41.13
237.58	S	-65.67	-67.39	3.39	-1.66	-13.00	-52.67
373.38	S	-67.99	-69.97	4.00	-2.02	-13.00	-54.99
556.71	S	-68.93	-70.25	3.83	-2.51	-13.00	-55.93
681.84	S	-51.05	-52.23	3.90	-2.72	-13.00	-38.05
873.90	S	-63.45	-64.04	3.77	-3.18	-13.00	-50.45
1648.80	H	-56.38	-55.50	3.54	-4.42	-13.00	-43.38
2472.60	H	---					
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor..

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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 128	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
96.93	S	-53.96	-51.81	-0.95	-1.20	-13.00	-40.96
228.85	S	-61.01	-62.82	3.43	-1.63	-13.00	-48.01
379.20	S	-63.64	-65.57	3.96	-2.03	-13.00	-50.64
554.77	S	-69.46	-70.80	3.85	-2.50	-13.00	-56.46
700.27	S	-51.15	-52.28	3.88	-2.74	-13.00	-38.15
903.97	S	-61.61	-62.00	3.66	-3.27	-13.00	-48.61
1648.80	H	-61.73	-60.85	3.54	-4.42	-13.00	-48.73
2472.60	H	---					
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 190	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
87.23	S	-54.23	-51.69	-1.39	-1.15	-13.00	-41.23
228.85	S	-66.38	-68.18	3.43	-1.63	-13.00	-53.38
373.38	S	-68.53	-70.51	4.00	-2.02	-13.00	-55.53
523.73	S	-69.72	-71.12	3.82	-2.42	-13.00	-56.72
686.69	S	-52.41	-53.58	3.90	-2.73	-13.00	-39.41
878.75	S	-63.63	-64.18	3.75	-3.20	-13.00	-50.63
1673.20	H	-55.13	-54.15	3.47	-4.45	-13.00	-42.13
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 190	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-55.61	-53.52	-0.89	-1.20	-13.00	-42.61
230.79	S	-61.45	-63.22	3.41	-1.64	-13.00	-48.45
379.20	S	-63.35	-65.27	3.96	-2.03	-13.00	-50.35
516.94	S	-69.98	-71.38	3.81	-2.40	-13.00	-56.98
716.76	S	-52.69	-53.72	3.81	-2.78	-13.00	-39.69
878.75	S	-63.92	-64.48	3.75	-3.20	-13.00	-50.92
1673.20	H	-60.60	-59.62	3.47	-4.45	-13.00	-47.60
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 251	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	S	-54.23	-51.97	-1.09	-1.17	-13.00	-41.23
240.49	S	-65.59	-67.30	3.38	-1.67	-13.00	-52.59
373.38	S	-67.90	-69.87	4.00	-2.02	-13.00	-54.90
522.76	S	-69.76	-71.16	3.82	-2.42	-13.00	-56.76
692.51	S	-55.00	-56.15	3.89	-2.73	-13.00	-42.00
873.90	S	-64.02	-64.60	3.77	-3.18	-13.00	-51.02
1697.60	H	-56.21	-55.12	3.40	-4.48	-13.00	-43.21
2546.40	H	---					
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
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ARFCN	:CH 251	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
95.96	S	-55.77	-53.67	-0.89	-1.20	-13.00	-42.77
228.85	S	-61.23	-63.04	3.43	-1.63	-13.00	-48.23
379.20	S	-63.39	-65.31	3.96	-2.03	-13.00	-50.39
522.76	S	-70.17	-71.57	3.82	-2.42	-13.00	-57.17
709.00	S	-55.09	-56.17	3.84	-2.76	-13.00	-42.09
878.75	S	-64.43	-64.98	3.75	-3.20	-13.00	-51.43
1697.60	H	-61.78	-60.70	3.40	-4.48	-13.00	-48.78
2546.40	H	---					
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 512	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
90.14	S	-55.01	-55.41	1.60	-1.20	-13.00	-42.01
247.28	S	-65.03	-68.91	5.57	-1.70	-13.00	-52.03
354.95	S	-67.26	-71.55	6.27	-1.99	-13.00	-54.26
535.37	S	-67.01	-70.56	6.00	-2.45	-13.00	-54.01
702.21	S	-64.14	-67.41	6.02	-2.74	-13.00	-51.14
878.75	S	-61.58	-64.28	5.90	-3.20	-13.00	-48.58
3700.40	H	-55.36	-57.18	8.62	-6.80	-13.00	-42.36
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

$EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 512	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-52.33	-52.39	1.26	-1.20	-13.00	-39.33
159.98	S	-63.44	-62.54	0.51	-1.41	-13.00	-50.44
402.48	S	-62.31	-66.18	5.96	-2.08	-13.00	-49.31
461.65	S	-68.85	-72.34	5.74	-2.25	-13.00	-55.85
714.82	S	-66.35	-69.55	5.97	-2.77	-13.00	-53.35
872.93	S	-62.11	-64.85	5.92	-3.18	-13.00	-49.11
3700.40	H	-57.16	-58.98	8.62	-6.80	-13.00	-44.16
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 661	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	S	-53.95	-54.36	1.60	-1.20	-13.00	-40.95
239.52	S	-64.46	-68.32	5.53	-1.67	-13.00	-51.46
349.13	S	-67.68	-72.01	6.30	-1.98	-13.00	-54.68
528.58	S	-67.25	-70.80	5.99	-2.43	-13.00	-54.25
694.45	S	-64.15	-67.45	6.04	-2.73	-13.00	-51.15
877.78	S	-62.76	-65.46	5.90	-3.19	-13.00	-49.76
3760.00	H	-56.17	-58.06	8.74	-6.85	-13.00	-43.17
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 661	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-53.61	-53.61	1.20	-1.20	-13.00	-40.61
159.98	S	-63.36	-62.45	0.51	-1.41	-13.00	-50.36
402.48	S	-62.15	-66.02	5.96	-2.08	-13.00	-49.15
523.73	S	-68.85	-72.41	5.97	-2.42	-13.00	-55.85
725.49	S	-66.51	-69.64	5.93	-2.80	-13.00	-53.51
873.90	S	-62.17	-64.90	5.92	-3.18	-13.00	-49.17
3760.00	H	-57.30	-59.19	8.74	-6.85	-13.00	-44.30
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 810	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-52.40	-52.46	1.26	-1.20	-13.00	-39.40
241.46	S	-64.45	-68.31	5.54	-1.68	-13.00	-51.45
373.38	S	-67.70	-71.83	6.15	-2.02	-13.00	-54.70
514.03	S	-66.22	-69.78	5.95	-2.39	-13.00	-53.22
705.12	S	-63.85	-67.11	6.01	-2.75	-13.00	-50.85
913.67	S	-63.07	-65.59	5.80	-3.28	-13.00	-50.07
3819.60	H	-55.94	-57.90	8.85	-6.90	-13.00	-42.94
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 810	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-53.34	-53.34	1.20	-1.20	-13.00	-40.34
159.98	S	-63.43	-62.52	0.51	-1.41	-13.00	-50.43
373.38	S	-61.27	-65.39	6.15	-2.02	-13.00	-48.27
523.73	S	-67.93	-71.48	5.97	-2.42	-13.00	-54.93
715.79	S	-67.15	-70.34	5.97	-2.78	-13.00	-54.15
873.90	S	-62.49	-65.23	5.92	-3.18	-13.00	-49.49
3819.60	H	-56.05	-58.01	8.85	-6.90	-13.00	-43.05
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: HSDPA II Mode**

Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9262	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
87.23	S	-52.07	-51.68	0.76	-1.15	-13.00	-39.07
234.67	S	-65.09	-68.99	5.55	-1.65	-13.00	-52.09
373.38	S	-66.50	-70.63	6.15	-2.02	-13.00	-53.50
547.98	S	-66.82	-70.37	6.03	-2.49	-13.00	-53.82
699.30	S	-63.80	-67.09	6.03	-2.74	-13.00	-50.80
873.90	S	-60.91	-63.64	5.92	-3.18	-13.00	-47.91
3704.80	H	-55.63	-57.45	8.63	-6.80	-13.00	-42.63
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

$EIRP (dBm) = SG \text{ Level}(dBm) + Antenna \text{ Gain}(dBi) + Cable \text{ Loss}(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9262	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-52.64	-52.64	1.20	-1.20	-13.00	-39.64
234.67	S	-60.80	-64.70	5.55	-1.65	-13.00	-47.80
402.48	S	-61.12	-65.00	5.96	-2.08	-13.00	-48.12
516.94	S	-68.40	-71.96	5.96	-2.40	-13.00	-55.40
736.16	S	-66.29	-69.36	5.88	-2.82	-13.00	-53.29
873.90	S	-60.18	-62.92	5.92	-3.18	-13.00	-47.18
3704.80	H	-57.37	-59.20	8.63	-6.80	-13.00	-44.37
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9400	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
87.23	S	-51.23	-50.83	0.76	-1.15	-13.00	-38.23
234.67	S	-64.44	-68.33	5.55	-1.65	-13.00	-51.44
373.38	S	-65.20	-69.32	6.15	-2.02	-13.00	-52.20
528.58	S	-67.44	-71.00	5.99	-2.43	-13.00	-54.44
705.12	S	-63.24	-66.49	6.01	-2.75	-13.00	-50.24
874.87	S	-61.59	-64.32	5.91	-3.19	-13.00	-48.59
3760.00	H	-55.82	-57.70	8.74	-6.85	-13.00	-42.82
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9400	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-52.93	-52.98	1.26	-1.20	-13.00	-39.93
230.79	S	-60.59	-64.51	5.56	-1.64	-13.00	-47.59
373.38	S	-60.44	-64.56	6.15	-2.02	-13.00	-47.44
505.30	S	-67.86	-71.42	5.92	-2.37	-13.00	-54.86
723.55	S	-66.69	-69.83	5.93	-2.79	-13.00	-53.69
872.93	S	-60.58	-63.32	5.92	-3.18	-13.00	-47.58
3760.00	H	-57.71	-59.60	8.74	-6.85	-13.00	-44.71
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9538	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
90.14	S	-55.17	-55.57	1.60	-1.20	-13.00	-42.17
249.22	S	-65.43	-69.31	5.59	-1.71	-13.00	-52.43
354.95	S	-67.30	-71.58	6.27	-1.99	-13.00	-54.30
523.73	S	-67.54	-71.09	5.97	-2.42	-13.00	-54.54
690.57	S	-63.65	-66.96	6.04	-2.73	-13.00	-50.65
872.93	S	-61.24	-63.98	5.92	-3.18	-13.00	-48.24
3815.20	H	-53.28	-55.22	8.85	-6.90	-13.00	-40.28
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9538	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-52.37	-52.42	1.26	-1.20	-13.00	-39.37
159.98	S	-63.22	-62.32	0.51	-1.41	-13.00	-50.22
402.48	S	-61.82	-65.70	5.96	-2.08	-13.00	-48.82
522.76	S	-69.67	-73.23	5.97	-2.42	-13.00	-56.67
747.80	S	-66.90	-69.89	5.84	-2.84	-13.00	-53.90
872.93	S	-62.48	-65.22	5.92	-3.18	-13.00	-49.48
3815.20	H	-56.62	-58.56	8.85	-6.90	-13.00	-43.62
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: HSDPA IV Mode**

Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
87.23	S	-57.17	-56.78	0.76	-1.15	-13.00	-44.17
95.96	S	-55.98	-56.03	1.26	-1.20	-13.00	-42.98
134.76	S	-68.04	-66.19	-0.52	-1.33	-13.00	-55.04
357.86	S	-65.28	-69.54	6.25	-1.99	-13.00	-52.28
605.21	S	-65.54	-68.56	5.64	-2.63	-13.00	-52.54
774.96	S	-63.02	-66.08	5.96	-2.90	-13.00	-50.02
3424.80	H	-56.95	-58.39	7.99	-6.55	-13.00	-43.95
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

$EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-50.99	-51.04	1.26	-1.20	-13.00	-37.99
159.98	S	-63.87	-62.97	0.51	-1.41	-13.00	-50.87
233.70	S	-63.01	-66.91	5.55	-1.65	-13.00	-50.01
373.38	S	-64.48	-68.60	6.15	-2.02	-13.00	-51.48
512.09	S	-67.99	-71.55	5.94	-2.39	-13.00	-54.99
769.14	S	-65.18	-68.23	5.93	-2.89	-13.00	-52.18
3424.80	H	-59.24	-60.68	7.99	-6.55	-13.00	-46.24
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
87.23	S	-57.64	-57.25	0.76	-1.15	-13.00	-44.64
95.96	S	-55.55	-55.61	1.26	-1.20	-13.00	-42.55
134.76	S	-67.93	-66.08	-0.52	-1.33	-13.00	-54.93
356.89	S	-65.55	-69.82	6.26	-1.99	-13.00	-52.55
516.94	S	-67.23	-70.78	5.96	-2.40	-13.00	-54.23
763.32	S	-62.80	-65.83	5.90	-2.88	-13.00	-49.80
3465.20	H	-57.49	-59.00	8.10	-6.59	-13.00	-44.49
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-51.87	-51.87	1.20	-1.20	-13.00	-38.87
159.98	S	-63.55	-62.65	0.51	-1.41	-13.00	-50.55
233.70	S	-63.63	-67.53	5.55	-1.65	-13.00	-50.63
272.50	S	-64.19	-67.94	5.54	-1.78	-13.00	-51.19
379.20	S	-63.78	-67.86	6.11	-2.03	-13.00	-50.78
792.42	S	-64.81	-67.93	6.05	-2.94	-13.00	-51.81
3465.20	H	-59.45	-60.97	8.10	-6.59	-13.00	-46.45
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1513	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-56.75	-56.81	1.26	-1.20	-13.00	-43.75
135.73	S	-67.25	-65.37	-0.54	-1.34	-13.00	-54.25
246.31	S	-67.29	-71.16	5.57	-1.69	-13.00	-54.29
355.92	S	-65.72	-70.00	6.27	-1.99	-13.00	-52.72
679.90	S	-63.82	-67.16	6.05	-2.72	-13.00	-50.82
762.35	S	-61.86	-64.88	5.90	-2.87	-13.00	-48.86
3505.20	H	-58.41	-59.99	8.21	-6.62	-13.00	-45.41
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1513	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-51.59	-51.59	1.20	-1.20	-13.00	-38.59
159.98	S	-63.17	-62.26	0.51	-1.41	-13.00	-50.17
230.79	S	-62.14	-66.07	5.56	-1.64	-13.00	-49.14
379.20	S	-64.38	-68.45	6.11	-2.03	-13.00	-51.38
595.51	S	-67.21	-70.23	5.63	-2.61	-13.00	-54.21
781.75	S	-64.71	-67.79	6.00	-2.91	-13.00	-51.71
3505.20	H	-58.77	-60.36	8.21	-6.62	-13.00	-45.77
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: HSDPA V Mode**

Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4132	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
88.20	S	-56.13	-53.87	-1.09	-1.17	-13.00	-43.13
138.64	S	-69.13	-65.02	-2.77	-1.35	-13.00	-56.13
161.92	S	-68.09	-65.13	-1.54	-1.42	-13.00	-55.09
237.58	S	-63.67	-65.39	3.39	-1.66	-13.00	-50.67
373.38	S	-66.99	-68.97	4.00	-2.02	-13.00	-53.99
681.84	S	-53.05	-54.23	3.90	-2.72	-13.00	-40.05
1652.80	H	-62.17	-61.27	3.53	-4.42	-13.00	-49.17
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4132	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
96.93	S	-52.96	-50.81	-0.95	-1.20	-13.00	-39.96
160.95	S	-63.26	-60.26	-1.59	-1.41	-13.00	-50.26
228.85	S	-62.01	-63.82	3.43	-1.63	-13.00	-49.01
277.35	S	-64.98	-66.53	3.34	-1.80	-13.00	-51.98
379.20	S	-62.64	-64.57	3.96	-2.03	-13.00	-49.64
700.27	S	-52.15	-53.28	3.88	-2.74	-13.00	-39.15
1652.80	H	-65.26	-64.36	3.53	-4.42	-13.00	-52.26
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4183	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
87.23	S	-53.23	-50.69	-1.39	-1.15	-13.00	-40.23
165.80	S	-68.34	-65.59	-1.33	-1.43	-13.00	-55.34
228.85	S	-65.38	-67.18	3.43	-1.63	-13.00	-52.38
373.38	S	-67.53	-69.51	4.00	-2.02	-13.00	-54.53
590.66	S	-66.30	-67.22	3.52	-2.60	-13.00	-53.30
686.69	S	-50.41	-51.58	3.90	-2.73	-13.00	-37.41
1673.20	H	-62.77	-61.79	3.47	-4.45	-13.00	-49.77
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4183	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-56.61	-54.52	-0.89	-1.20	-13.00	-43.61
159.98	S	-64.77	-61.72	-1.64	-1.41	-13.00	-51.77
230.79	S	-59.45	-61.22	3.41	-1.64	-13.00	-46.45
379.20	S	-63.35	-65.27	3.96	-2.03	-13.00	-50.35
402.48	S	-63.68	-65.41	3.81	-2.08	-13.00	-50.68
716.76	S	-54.69	-55.72	3.81	-2.78	-13.00	-41.69
1673.20	H	-65.41	-64.43	3.47	-4.45	-13.00	-52.41
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---“ : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4233	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
88.20	S	-55.23	-52.97	-1.09	-1.17	-13.00	-42.23
162.89	S	-68.18	-65.28	-1.48	-1.42	-13.00	-55.18
240.49	S	-64.59	-66.30	3.38	-1.67	-13.00	-51.59
277.35	S	-68.28	-69.82	3.34	-1.80	-13.00	-55.28
373.38	S	-66.90	-68.87	4.00	-2.02	-13.00	-53.90
692.51	S	-53.00	-54.15	3.89	-2.73	-13.00	-40.00
1693.20	H	-63.36	-62.29	3.41	-4.48	-13.00	-50.36
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4233	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	S	-56.77	-54.67	-0.89	-1.20	-13.00	-43.77
159.98	S	-63.77	-60.72	-1.64	-1.41	-13.00	-50.77
228.85	S	-61.23	-63.04	3.43	-1.63	-13.00	-48.23
288.02	S	-63.45	-65.03	3.41	-1.83	-13.00	-50.45
379.20	S	-62.39	-64.31	3.96	-2.03	-13.00	-49.39
709.00	S	-57.09	-58.17	3.84	-2.76	-13.00	-44.09
1693.20	H	-65.38	-64.31	3.41	-4.48	-13.00	-52.38
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4(The Worst Case)**

Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 19957 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
96.93	S	-58.18	-58.18	1.20	-1.20	-13.00	-45.18
152.22	S	-55.32	-53.93	0.00	-1.39	-13.00	-42.32
367.56	S	-67.98	-72.16	6.19	-2.01	-13.00	-54.98
553.80	S	-68.87	-72.37	6.00	-2.50	-13.00	-55.87
676.02	S	-64.94	-68.28	6.06	-2.71	-13.00	-51.94
940.83	S	-63.51	-65.97	5.79	-3.32	-13.00	-50.51
3421.40	H	-54.74	-56.17	7.98	-6.54	-13.00	-41.74
5132.10	H	---					
6842.80	H	---					
8553.50	H	---					
10264.20	H	---					
11974.90	H	---					
13685.60	H	---					
15396.30	H	---					
17107.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 19957 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
102.75	S	-56.95	-56.46	0.73	-1.21	-13.00	-43.95
165.80	S	-61.23	-60.62	0.82	-1.43	-13.00	-48.23
373.38	S	-63.97	-68.10	6.15	-2.02	-13.00	-50.97
559.62	S	-66.18	-69.62	5.95	-2.52	-13.00	-53.18
691.54	S	-68.46	-71.76	6.04	-2.73	-13.00	-55.46
950.53	S	-63.09	-65.49	5.74	-3.34	-13.00	-50.09
3421.40	H	-58.82	-60.26	7.98	-6.54	-13.00	-45.82
5132.10	H	---					
6842.80	H	---					
8553.50	H	---					
10264.20	H	---					
11974.90	H	---					
13685.60	H	---					
15396.30	H	---					
17107.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 20175 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
90.14	S	-58.28	-58.69	1.60	-1.20	-13.00	-45.28
256.01	S	-69.56	-73.50	5.67	-1.73	-13.00	-56.56
349.13	S	-68.19	-72.52	6.30	-1.98	-13.00	-55.19
516.94	S	-69.08	-72.64	5.96	-2.40	-13.00	-56.08
696.39	S	-64.60	-67.90	6.03	-2.74	-13.00	-51.60
776.90	S	-63.32	-66.39	5.97	-2.90	-13.00	-50.32
3465.00	H	-55.14	-56.66	8.10	-6.59	-13.00	-42.14
5197.50	H	---					
6930.00	H	---					
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 20175 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
102.75	S	-56.44	-55.95	0.73	-1.21	-13.00	-43.44
159.01	S	-60.95	-59.99	0.45	-1.41	-13.00	-47.95
373.38	S	-64.03	-68.15	6.15	-2.02	-13.00	-51.03
559.62	S	-66.26	-69.69	5.95	-2.52	-13.00	-53.26
696.39	S	-68.22	-71.52	6.03	-2.74	-13.00	-55.22
914.64	S	-63.40	-65.92	5.80	-3.28	-13.00	-50.40
3465.00	H	-57.66	-59.18	8.10	-6.59	-13.00	-44.66
5197.50	H	---					
6930.00	H	---					
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 20393 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Margin dB
102.75	S	-57.98	-57.50	0.73	-1.21	-13.00	-44.98
275.41	S	-69.71	-73.42	5.51	-1.79	-13.00	-56.71
354.95	S	-67.35	-71.64	6.27	-1.99	-13.00	-54.35
523.73	S	-68.89	-72.45	5.97	-2.42	-13.00	-55.89
684.75	S	-64.74	-68.06	6.05	-2.72	-13.00	-51.74
956.35	S	-63.29	-65.30	5.35	-3.35	-13.00	-50.29
3508.60	H	-58.06	-59.65	8.22	-6.63	-13.00	-45.06
5262.90	H	---					
7017.20	H	---					
8771.50	H	---					
10525.80	H	---					
12280.10	H	---					
14034.40	H	---					
15788.70	H	---					
17543.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 20393 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
101.78	S	-57.10	-56.72	0.83	-1.21	-13.00	-44.10
165.80	S	-61.19	-60.59	0.82	-1.43	-13.00	-48.19
373.38	S	-63.65	-67.77	6.15	-2.02	-13.00	-50.65
535.37	S	-67.11	-70.66	6.00	-2.45	-13.00	-54.11
694.45	S	-68.35	-71.65	6.04	-2.73	-13.00	-55.35
959.26	S	-63.85	-65.66	5.16	-3.35	-13.00	-50.85
3508.60	H	-57.46	-59.05	8.22	-6.63	-13.00	-44.46
5262.90	H	---					
7017.20	H	---					
8771.50	H	---					
10525.80	H	---					
12280.10	H	---					
14034.40	H	---					
15788.70	H	---					
17543.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)**

Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 20775 16QAM BW 5	Temp./Humi.	:24 deg_C / 59 RH
	RB 1 24	Engineer	:Allen
Fundamental Frequency	:2502.5 MHz	Measurement Antenna Pol.	:VERTICAL
Operation Mode	:TX LOW		
EUT Pol.	:H Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
102.75	S	-57.56	-57.07	0.73	-1.21	-25.00	-32.56
274.44	S	-69.45	-73.18	5.52	-1.79	-25.00	-44.45
354.95	S	-68.60	-72.89	6.27	-1.99	-25.00	-43.60
532.46	S	-68.51	-72.06	6.00	-2.44	-25.00	-43.51
697.36	S	-64.58	-67.88	6.03	-2.74	-25.00	-39.58
766.23	S	-63.44	-66.48	5.92	-2.88	-25.00	-38.44
5005.00	H	-69.63	-71.62	9.90	-7.91	-25.00	-44.63
7507.50	H	---					
10010.00	H	---					
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	H	---					

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBi) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 20775 16QAM BW 5	Temp./Humi.	:24 deg_C / 59 RH
	RB 1 24	Engineer	:Allen
Fundamental Frequency	:2502.5 MHz	Measurement Antenna Pol.	:HORIZONTAL
Operation Mode	:TX LOW		
EUT Pol.	:H Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
102.75	S	-57.23	-56.74	0.73	-1.21	-25.00	-32.23
159.98	S	-60.70	-59.80	0.51	-1.41	-25.00	-35.70
373.38	S	-64.15	-68.27	6.15	-2.02	-25.00	-39.15
559.62	S	-65.83	-69.27	5.95	-2.52	-25.00	-40.83
685.72	S	-68.35	-71.67	6.05	-2.72	-25.00	-43.35
939.86	S	-63.24	-65.71	5.79	-3.32	-25.00	-38.24
5005.00	H	-68.86	-70.85	9.90	-7.91	-25.00	-43.86
7507.50	H	---					
10010.00	H	---					
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 21100 16QAM BW 5	Temp./Humi.	:24 deg_C / 59 RH
	RB 1 24	Engineer	:Allen
Fundamental Frequency	:2535 MHz	Measurement Antenna Pol.	:VERTICAL
Operation Mode	:TX MID		
EUT Pol.	:H Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
102.75	S	-58.19	-57.71	0.73	-1.21	-25.00	-33.19
276.38	S	-69.02	-72.72	5.50	-1.80	-25.00	-44.02
355.92	S	-68.56	-72.84	6.27	-1.99	-25.00	-43.56
468.44	S	-68.93	-72.44	5.77	-2.27	-25.00	-43.93
694.45	S	-64.22	-67.53	6.04	-2.73	-25.00	-39.22
950.53	S	-62.76	-65.16	5.74	-3.34	-25.00	-37.76
5070.00	H	-55.72	-57.70	9.96	-7.98	-25.00	-30.72
7605.00	H	---					
10140.00	H	---					
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 21100 16QAM BW 5	Temp./Humi.	:24 deg_C / 59 RH
	RB 1 24	Engineer	:Allen
Fundamental Frequency	:2535 MHz	Measurement Antenna Pol.	:HORIZONTAL
Operation Mode	:TX MID		
EUT Pol.	:H Plane		

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
101.78	S	-57.38	-57.00	0.83	-1.21	-25.00	-32.38
159.98	S	-60.58	-59.68	0.51	-1.41	-25.00	-35.58
373.38	S	-63.78	-67.91	6.15	-2.02	-25.00	-38.78
547.01	S	-66.31	-69.86	6.03	-2.48	-25.00	-41.31
691.54	S	-68.32	-71.63	6.04	-2.73	-25.00	-43.32
945.68	S	-63.73	-66.18	5.78	-3.33	-25.00	-38.73
5070.00	H	-56.55	-58.53	9.96	-7.98	-25.00	-31.55
7605.00	H	---					
10140.00	H	---					
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 21425 16QAM BW 5 RB 1 24	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
102.75	S	-58.27	-57.78	0.73	-1.21	-25.00	-33.27
252.13	S	-69.52	-73.42	5.62	-1.72	-25.00	-44.52
367.56	S	-68.48	-72.66	6.19	-2.01	-25.00	-43.48
523.73	S	-68.10	-71.66	5.97	-2.42	-25.00	-43.10
690.57	S	-64.76	-68.07	6.04	-2.73	-25.00	-39.76
819.58	S	-63.43	-66.47	6.06	-3.01	-25.00	-38.43
5135.00	H	-54.32	-56.29	10.01	-8.04	-25.00	-29.32
7702.50	H	---					
10270.00	H	---					
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.  
 "E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.  
 "---" : denotes Noise Floor.

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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 21425 16QAM BW 5 RB 1 24	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
102.75	S	-56.90	-56.41	0.73	-1.21	-25.00	-31.90
164.83	S	-60.61	-59.96	0.77	-1.42	-25.00	-35.61
373.38	S	-64.07	-68.20	6.15	-2.02	-25.00	-39.07
535.37	S	-66.15	-69.71	6.00	-2.45	-25.00	-41.15
698.33	S	-67.58	-70.88	6.03	-2.74	-25.00	-42.58
935.01	S	-63.93	-66.40	5.79	-3.31	-25.00	-38.93
5135.00	H	-55.59	-57.56	10.01	-8.04	-25.00	-30.59
7702.50	H	---					
10270.00	H	---					
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	H	---					

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (Worst case)**

Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23755 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-60.72	-44.23	-15.69	-0.80	-13.00	-47.72
87.23	S	-59.07	-56.53	-1.39	-1.15	-13.00	-46.07
253.10	S	-69.77	-71.54	3.48	-1.72	-13.00	-56.77
354.95	S	-69.22	-71.36	4.12	-1.99	-13.00	-56.22
516.94	S	-70.16	-71.56	3.81	-2.40	-13.00	-57.16
925.31	S	-64.11	-64.46	3.64	-3.30	-13.00	-51.11
1413.00	H	-48.65	-48.02	3.47	-4.09	-13.00	-35.65
2119.50	H	---					
2826.00	H	---					
3532.50	H	---					
4239.00	H	---					
4945.50	H	---					
5652.00	H	---					
6358.50	H	---					
7065.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23755 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
99.84	S	-59.25	-56.94	-1.11	-1.20	-13.00	-46.25
159.98	S	-60.09	-57.04	-1.64	-1.41	-13.00	-47.09
233.70	S	-64.69	-66.44	3.40	-1.65	-13.00	-51.69
379.20	S	-64.35	-66.27	3.96	-2.03	-13.00	-51.35
535.37	S	-68.32	-69.73	3.85	-2.45	-13.00	-55.32
949.56	S	-64.65	-64.94	3.63	-3.34	-13.00	-51.65
1413.00	H	-53.80	-53.18	3.47	-4.09	-13.00	-40.80
2119.50	H	---					
2826.00	H	---					
3532.50	H	---					
4239.00	H	---					
4945.50	H	---					
5652.00	H	---					
6358.50	H	---					
7065.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23790 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:710 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-61.21	-44.72	-15.69	-0.80	-13.00	-48.21
90.14	S	-58.55	-56.80	-0.55	-1.20	-13.00	-45.55
240.49	S	-68.43	-70.14	3.38	-1.67	-13.00	-55.43
290.93	S	-69.11	-70.72	3.45	-1.84	-13.00	-56.11
515.97	S	-69.75	-71.16	3.80	-2.40	-13.00	-56.75
773.99	S	-65.46	-66.37	3.81	-2.90	-13.00	-52.46
1420.00	H	-45.70	-45.11	3.51	-4.10	-13.00	-32.70
2130.00	H	---					
2840.00	H	---					
3550.00	H	---					
4260.00	H	---					
4970.00	H	---					
5680.00	H	---					
6390.00	H	---					
7100.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23790 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:710 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
95.96	S	-58.83	-56.74	-0.89	-1.20	-13.00	-45.83
159.98	S	-61.57	-58.52	-1.64	-1.41	-13.00	-48.57
296.75	S	-65.22	-66.92	3.56	-1.86	-13.00	-52.22
379.20	S	-64.85	-66.77	3.96	-2.03	-13.00	-51.85
535.37	S	-67.50	-68.90	3.85	-2.45	-13.00	-54.50
928.22	S	-65.51	-65.84	3.64	-3.30	-13.00	-52.51
1420.00	H	-52.66	-52.07	3.51	-4.10	-13.00	-39.66
2130.00	H	---					
2840.00	H	---					
3550.00	H	---					
4260.00	H	---					
4970.00	H	---					
5680.00	H	---					
6390.00	H	---					
7100.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23825 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-61.07	-44.58	-15.69	-0.80	-13.00	-48.07
88.20	S	-57.75	-55.49	-1.09	-1.17	-13.00	-44.75
250.19	S	-69.82	-71.55	3.44	-1.71	-13.00	-56.82
366.59	S	-68.51	-70.54	4.04	-2.01	-13.00	-55.51
547.98	S	-68.56	-69.95	3.88	-2.49	-13.00	-55.56
913.67	S	-64.73	-65.10	3.65	-3.28	-13.00	-51.73
1427.00	H	-48.59	-48.03	3.56	-4.11	-13.00	-35.59
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.  
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.  
 “---” : denotes Noise Floor.

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Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23825 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
102.75	S	-59.00	-56.36	-1.42	-1.21	-13.00	-46.00
159.98	S	-60.79	-57.74	-1.64	-1.41	-13.00	-47.79
373.38	S	-64.22	-66.20	4.00	-2.02	-13.00	-51.22
535.37	S	-67.59	-68.99	3.85	-2.45	-13.00	-54.59
658.56	S	-68.85	-70.09	3.93	-2.69	-13.00	-55.85
923.37	S	-65.56	-65.91	3.65	-3.30	-13.00	-52.56
1427.00	H	-52.75	-52.19	3.56	-4.11	-13.00	-39.75
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	H	---					

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
87.23	S	Peak	51.14	-18.50	32.64	40.00	-7.36
222.06	S	Peak	38.33	-14.49	23.84	46.00	-22.16
373.38	S	Peak	35.96	-9.72	26.24	46.00	-19.76
528.58	S	Peak	32.86	-7.51	25.35	46.00	-20.65
690.57	S	Peak	27.79	-3.72	24.07	46.00	-21.93
873.90	S	Peak	30.66	-1.59	29.07	46.00	-16.93
1648.40	H	Peak	38.07	-1.58	36.49	54.00	-17.51
2472.60	H	---					
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

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Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
95.96	S	Peak	52.56	-18.29	34.27	43.50	-9.23
150.28	S	Peak	42.65	-12.79	29.86	43.50	-13.64
402.48	S	Peak	43.24	-9.10	34.14	46.00	-11.86
558.65	S	Peak	30.51	-6.78	23.73	46.00	-22.27
684.75	S	Peak	29.92	-3.67	26.25	46.00	-19.75
872.93	S	Peak	30.59	-1.60	28.99	46.00	-17.01
1648.40	H	Peak	37.74	-1.58	36.16	54.00	-17.84
2472.60	H	---					
3296.80	H	---					
4121.00	H	---					
4945.20	H	---					
5769.40	H	---					
6593.60	H	---					
7417.80	H	---					
8242.00	H	---					

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Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
87.23	S	Peak	54.28	-18.50	35.78	40.00	-4.22
161.92	S	Peak	38.06	-12.69	25.37	43.50	-18.13
373.38	S	Peak	38.64	-9.72	28.92	46.00	-17.08
515.97	S	Peak	32.61	-7.44	25.17	46.00	-20.83
744.89	S	Peak	27.71	-2.92	24.79	46.00	-21.21
872.93	S	Peak	30.99	-1.60	29.39	46.00	-16.61
1673.20	H	Peak	40.12	-1.38	38.74	54.00	-15.26
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

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Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
87.23	S	Peak	52.30	-18.50	33.80	40.00	-6.20
222.06	S	Peak	47.77	-14.49	33.28	46.00	-12.72
373.38	S	Peak	45.82	-9.72	36.10	46.00	-9.90
558.65	S	Peak	32.48	-6.78	25.70	46.00	-20.30
744.89	S	Peak	29.19	-2.92	26.27	46.00	-19.73
873.90	S	Peak	30.94	-1.59	29.35	46.00	-16.65
1673.20	H	Peak	40.99	-1.38	39.61	54.00	-14.39
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

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Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
87.23	S	Peak	51.25	-18.50	32.75	40.00	-7.25
222.06	S	Peak	37.66	-14.49	23.17	46.00	-22.83
366.59	S	Peak	36.25	-9.86	26.39	46.00	-19.61
515.97	S	Peak	33.25	-7.44	25.81	46.00	-20.19
720.64	S	Peak	29.07	-4.23	24.84	46.00	-21.16
873.90	S	Peak	29.21	-1.59	27.62	46.00	-18.38
1697.60	H	Peak	37.53	-1.18	36.35	54.00	-17.65
2546.40	H	---					
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

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Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
95.96	S	Peak	51.65	-18.29	33.36	43.50	-10.14
161.92	S	Peak	42.85	-12.69	30.16	43.50	-13.34
402.48	S	Peak	43.06	-9.10	33.96	46.00	-12.04
504.33	S	Peak	30.56	-7.49	23.07	46.00	-22.93
672.14	S	Peak	29.87	-3.95	25.92	46.00	-20.08
940.83	S	Peak	27.80	0.06	27.86	46.00	-18.14
1697.60	H	Peak	39.28	-1.18	38.10	54.00	-15.90
2546.40	H	---					
3395.20	H	---					
4244.00	H	---					
5092.80	H	---					
5941.60	H	---					
6790.40	H	---					
7639.20	H	---					
8488.00	H	---					

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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
87.23	S	Peak	51.69	-18.50	33.19	40.00	-6.81
222.06	S	Peak	37.30	-14.49	22.81	46.00	-23.19
373.38	S	Peak	36.09	-9.72	26.37	46.00	-19.63
511.12	S	Peak	32.76	-7.44	25.32	46.00	-20.68
672.14	S	Peak	28.91	-3.95	24.96	46.00	-21.04
872.93	S	Peak	30.78	-1.60	29.18	46.00	-16.82
3700.40	H	Peak	37.98	5.10	43.08	54.00	-10.92
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
98.87	S	Peak	51.61	-17.96	33.65	43.50	-9.85
150.28	S	Peak	43.36	-12.79	30.57	43.50	-12.93
379.20	S	Peak	45.12	-9.59	35.53	46.00	-10.47
522.76	S	Peak	30.66	-7.46	23.20	46.00	-22.80
744.89	S	Peak	29.05	-2.92	26.13	46.00	-19.87
873.90	S	Peak	30.67	-1.59	29.08	46.00	-16.92
3700.40	H	Peak	37.23	5.10	42.33	54.00	-11.67
5550.60	H	---					
7400.80	H	---					
9251.00	H	---					
11101.20	H	---					
12951.40	H	---					
14801.60	H	---					
16651.80	H	---					
18502.00	H	---					

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
87.23	S	Peak	52.42	-18.50	33.92	40.00	-6.08
222.06	S	Peak	38.45	-14.49	23.96	46.00	-22.04
373.38	S	Peak	35.88	-9.72	26.16	46.00	-19.84
528.58	S	Peak	32.98	-7.51	25.47	46.00	-20.53
726.46	S	Peak	29.80	-3.96	25.84	46.00	-20.16
940.83	S	Peak	28.97	0.06	29.03	46.00	-16.97
3760.00	H	Peak	36.58	4.84	41.42	54.00	-12.58
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
95.96	S	Peak	51.99	-18.29	33.70	43.50	-9.80
150.28	S	Peak	42.94	-12.79	30.15	43.50	-13.35
379.20	S	Peak	45.12	-9.59	35.53	46.00	-10.47
558.65	S	Peak	31.46	-6.78	24.68	46.00	-21.32
714.82	S	Peak	29.66	-4.30	25.36	46.00	-20.64
872.93	S	Peak	30.61	-1.60	29.01	46.00	-16.99
3760.00	H	Peak	36.21	4.84	41.05	54.00	-12.95
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
87.23	S	Peak	51.72	-18.50	33.22	40.00	-6.78
222.06	S	Peak	37.58	-14.49	23.09	46.00	-22.91
373.38	S	Peak	36.02	-9.72	26.30	46.00	-19.70
522.76	S	Peak	33.55	-7.46	26.09	46.00	-19.91
690.57	S	Peak	28.64	-3.72	24.92	46.00	-21.08
872.93	S	Peak	30.76	-1.60	29.16	46.00	-16.84
3819.60	H	Peak	37.79	5.17	42.96	54.00	-11.04
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
98.87	S	Peak	51.70	-17.96	33.74	43.50	-9.76
150.28	S	Peak	41.38	-12.79	28.59	43.50	-14.91
373.38	S	Peak	45.12	-9.72	35.40	46.00	-10.60
558.65	S	Peak	31.35	-6.78	24.57	46.00	-21.43
684.75	S	Peak	28.99	-3.67	25.32	46.00	-20.68
873.90	S	Peak	31.47	-1.59	29.88	46.00	-16.12
3819.60	H	Peak	37.35	5.17	42.52	54.00	-11.48
5729.40	H	---					
7639.20	H	---					
9549.00	H	---					
11458.80	H	---					
13368.60	H	---					
15278.40	H	---					
17188.20	H	---					
19098.00	H	---					

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**Radiated Spurious Emission Measurement Result: HSDPA II Mode**

Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
87.23	S	Peak	52.05	-18.50	33.55	40.00	-6.45
222.06	S	Peak	38.52	-14.49	24.03	46.00	-21.97
373.38	S	Peak	36.09	-9.72	26.37	46.00	-19.63
522.76	S	Peak	32.83	-7.46	25.37	46.00	-20.63
677.96	S	Peak	28.45	-3.73	24.72	46.00	-21.28
872.93	S	Peak	30.78	-1.60	29.18	46.00	-16.82
3704.80	H	Peak	35.60	5.08	40.68	54.00	-13.32
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
98.87	S	Peak	50.61	-17.96	32.65	43.50	-10.85
161.92	S	Peak	42.51	-12.69	29.82	43.50	-13.68
373.38	S	Peak	45.01	-9.72	35.29	46.00	-10.71
558.65	S	Peak	31.38	-6.78	24.60	46.00	-21.40
744.89	S	Peak	28.70	-2.92	25.78	46.00	-20.22
872.93	S	Peak	31.45	-1.60	29.85	46.00	-16.15
3704.80	H	Peak	37.39	5.08	42.47	54.00	-11.53
5557.20	H	---					
7409.60	H	---					
9262.00	H	---					
11114.40	H	---					
12966.80	H	---					
14819.20	H	---					
16671.60	H	---					
18524.00	H	---					

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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
87.23	S	Peak	51.32	-18.50	32.82	40.00	-7.18
222.06	S	Peak	38.05	-14.49	23.56	46.00	-22.44
373.38	S	Peak	35.76	-9.72	26.04	46.00	-19.96
515.97	S	Peak	33.04	-7.44	25.60	46.00	-20.40
708.03	S	Peak	28.55	-4.28	24.27	46.00	-21.73
872.93	S	Peak	31.00	-1.60	29.40	46.00	-16.60
3760.00	H	Peak	35.02	4.84	39.86	54.00	-14.14
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
98.87	S	Peak	51.34	-17.96	33.38	43.50	-10.12
150.28	S	Peak	43.00	-12.79	30.21	43.50	-13.29
373.38	S	Peak	45.17	-9.72	35.45	46.00	-10.55
558.65	S	Peak	31.77	-6.78	24.99	46.00	-21.01
735.19	S	Peak	29.24	-3.45	25.79	46.00	-20.21
872.93	S	Peak	30.84	-1.60	29.24	46.00	-16.76
3760.00	H	Peak	35.72	4.84	40.56	54.00	-13.44
5640.00	H	---					
7520.00	H	---					
9400.00	H	---					
11280.00	H	---					
13160.00	H	---					
15040.00	H	---					
16920.00	H	---					
18800.00	H	---					

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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
87.23	S	Peak	52.02	-18.50	33.52	40.00	-6.48
222.06	S	Peak	38.25	-14.49	23.76	46.00	-22.24
373.38	S	Peak	36.32	-9.72	26.60	46.00	-19.40
515.97	S	Peak	33.16	-7.44	25.72	46.00	-20.28
677.96	S	Peak	29.88	-3.73	26.15	46.00	-19.85
873.90	S	Peak	31.16	-1.59	29.57	46.00	-16.43
3815.20	H	Peak	35.33	5.14	40.47	54.00	-13.53
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
98.87	S	Peak	52.10	-17.96	34.14	43.50	-9.36
150.28	S	Peak	42.40	-12.79	29.61	43.50	-13.89
379.20	S	Peak	45.19	-9.59	35.60	46.00	-10.40
558.65	S	Peak	31.25	-6.78	24.47	46.00	-21.53
672.14	S	Peak	30.45	-3.95	26.50	46.00	-19.50
873.90	S	Peak	31.41	-1.59	29.82	46.00	-16.18
3815.20	H	Peak	36.48	5.14	41.62	54.00	-12.38
5722.80	H	---					
7630.40	H	---					
9538.00	H	---					
11445.60	H	---					
13353.20	H	---					
15260.80	H	---					
17168.40	H	---					
19076.00	H	---					

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**Radiated Spurious Emission Measurement Result: HSDPA IV Mode**

Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
48.43	S	Peak	43.21	-12.97	30.24	40.00	-9.76
71.71	S	Peak	46.29	-15.71	30.58	40.00	-9.42
87.23	S	Peak	48.62	-18.50	30.12	40.00	-9.88
354.95	S	Peak	35.63	-10.11	25.52	46.00	-20.48
515.97	S	Peak	32.63	-7.44	25.19	46.00	-20.81
726.46	S	Peak	30.46	-3.96	26.50	46.00	-19.50
3424.80	H	Peak	37.30	4.32	41.62	54.00	-12.38
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
78.50	S	Peak	48.02	-16.86	31.16	40.00	-8.84
98.87	S	Peak	53.76	-17.96	35.80	43.50	-7.70
161.92	S	Peak	42.78	-12.69	30.09	43.50	-13.41
222.06	S	Peak	43.58	-14.49	29.09	46.00	-16.91
354.95	S	Peak	40.82	-10.11	30.71	46.00	-15.29
379.20	S	Peak	42.01	-9.59	32.42	46.00	-13.58
3424.80	H	Peak	37.87	4.32	42.19	54.00	-11.81
5137.20	H	---					
6849.60	H	---					
8562.00	H	---					
10274.40	H	---					
11986.80	H	---					
13699.20	H	---					
15411.60	H	---					
17124.00	H	---					

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
48.43	S	Peak	43.21	-12.97	30.24	40.00	-9.76
71.71	S	Peak	46.28	-15.71	30.57	40.00	-9.43
98.87	S	Peak	46.38	-17.96	28.42	43.50	-15.08
137.67	S	Peak	36.11	-13.39	22.72	43.50	-20.78
356.89	S	Peak	35.87	-10.08	25.79	46.00	-20.21
684.75	S	Peak	29.11	-3.67	25.44	46.00	-20.56
3465.20	H	Peak	37.13	4.11	41.24	54.00	-12.76
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
71.71	S	Peak	46.22	-15.71	30.51	40.00	-9.49
98.87	S	Peak	53.38	-17.96	35.42	43.50	-8.08
150.28	S	Peak	42.32	-12.79	29.53	43.50	-13.97
233.70	S	Peak	43.54	-13.92	29.62	46.00	-16.38
354.95	S	Peak	40.64	-10.11	30.53	46.00	-15.47
379.20	S	Peak	42.29	-9.59	32.70	46.00	-13.30
3465.20	H	Peak	36.66	4.11	40.77	54.00	-13.23
5197.80	H	---					
6930.40	H	---					
8663.00	H	---					
10395.60	H	---					
12128.20	H	---					
13860.80	H	---					
15593.40	H	---					
17326.00	H	---					

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
48.43	S	Peak	43.97	-12.97	31.00	40.00	-9.00
71.71	S	Peak	46.38	-15.71	30.67	40.00	-9.33
95.96	S	Peak	47.50	-18.29	29.21	43.50	-14.29
354.95	S	Peak	36.72	-10.11	26.61	46.00	-19.39
522.76	S	Peak	32.26	-7.46	24.80	46.00	-21.20
756.53	S	Peak	28.68	-2.69	25.99	46.00	-20.01
3505.20	H	Peak	37.74	4.44	42.18	54.00	-11.82
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
78.50	S	Peak	48.32	-16.86	31.46	40.00	-8.54
98.87	S	Peak	52.89	-17.96	34.93	43.50	-8.57
150.28	S	Peak	42.60	-12.79	29.81	43.50	-13.69
222.06	S	Peak	44.70	-14.49	30.21	46.00	-15.79
354.95	S	Peak	40.56	-10.11	30.45	46.00	-15.55
379.20	S	Peak	42.05	-9.59	32.46	46.00	-13.54
3505.20	H	Peak	36.79	4.44	41.23	54.00	-12.77
5257.80	H	---					
7010.40	H	---					
8763.00	H	---					
10515.60	H	---					
12268.20	H	---					
14020.80	H	---					
15773.40	H	---					
17526.00	H	---					

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**Radiated Spurious Emission Measurement Result: HSDPA V Mode**

Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
87.23	S	Peak	51.95	-18.50	33.45	40.00	-6.55
161.92	S	Peak	37.64	-12.69	24.95	43.50	-18.55
373.38	S	Peak	38.81	-9.72	29.09	46.00	-16.91
515.97	S	Peak	33.19	-7.44	25.75	46.00	-20.25
735.19	S	Peak	28.03	-3.45	24.58	46.00	-21.42
873.90	S	Peak	30.25	-1.59	28.66	46.00	-17.34
1652.80	H	Peak	38.54	-1.54	37.00	54.00	-17.00
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
98.87	S	Peak	51.70	-17.96	33.74	43.50	-9.76
222.06	S	Peak	47.17	-14.49	32.68	46.00	-13.32
373.38	S	Peak	45.79	-9.72	36.07	46.00	-9.93
558.65	S	Peak	32.90	-6.78	26.12	46.00	-19.88
744.89	S	Peak	29.76	-2.92	26.84	46.00	-19.16
872.93	S	Peak	30.82	-1.60	29.22	46.00	-16.78
1652.80	H	Peak	38.81	-1.54	37.27	54.00	-16.73
2479.20	H	---					
3305.60	H	---					
4132.00	H	---					
4958.40	H	---					
5784.80	H	---					
6611.20	H	---					
7437.60	H	---					
8264.00	H	---					

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
87.23	S	Peak	50.87	-18.50	32.37	40.00	-7.63
222.06	S	Peak	38.20	-14.49	23.71	46.00	-22.29
373.38	S	Peak	35.73	-9.72	26.01	46.00	-19.99
515.97	S	Peak	32.49	-7.44	25.05	46.00	-20.95
690.57	S	Peak	28.12	-3.72	24.40	46.00	-21.60
873.90	S	Peak	29.23	-1.59	27.64	46.00	-18.36
1673.20	H	Peak	39.05	-1.38	37.67	54.00	-16.33
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
98.87	S	Peak	51.54	-17.96	33.58	43.50	-9.92
159.01	S	Peak	42.37	-12.65	29.72	43.50	-13.78
373.38	S	Peak	43.69	-9.72	33.97	46.00	-12.03
504.33	S	Peak	31.90	-7.49	24.41	46.00	-21.59
672.14	S	Peak	29.97	-3.95	26.02	46.00	-19.98
873.90	S	Peak	31.43	-1.59	29.84	46.00	-16.16
1673.20	H	Peak	39.24	-1.38	37.86	54.00	-16.14
2509.80	H	---					
3346.40	H	---					
4183.00	H	---					
5019.60	H	---					
5856.20	H	---					
6692.80	H	---					
7529.40	H	---					
8366.00	H	---					

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
87.23	S	Peak	51.64	-18.50	33.14	40.00	-6.86
222.06	S	Peak	37.94	-14.49	23.45	46.00	-22.55
373.38	S	Peak	35.73	-9.72	26.01	46.00	-19.99
518.88	S	Peak	32.44	-7.44	25.00	46.00	-21.00
684.75	S	Peak	28.54	-3.67	24.87	46.00	-21.13
873.90	S	Peak	30.27	-1.59	28.68	46.00	-17.32
1693.20	H	Peak	39.29	-1.22	38.07	54.00	-15.93
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

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Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
98.87	S	Peak	50.25	-17.96	32.29	43.50	-11.21
222.06	S	Peak	45.83	-14.49	31.34	46.00	-14.66
373.38	S	Peak	45.80	-9.72	36.08	46.00	-9.92
547.01	S	Peak	33.36	-7.45	25.91	46.00	-20.09
672.14	S	Peak	29.65	-3.95	25.70	46.00	-20.30
873.90	S	Peak	31.26	-1.59	29.67	46.00	-16.33
1693.20	H	Peak	38.92	-1.22	37.70	54.00	-16.30
2539.80	H	---					
3386.40	H	---					
4233.00	H	---					
5079.60	H	---					
5926.20	H	---					
6772.80	H	---					
7619.40	H	---					
8466.00	H	---					

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**Radiated Spurious Emission Measurement Result: 15MHz BW LTE-Band 4(The Worst Case)**

Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1710.7 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
35.82	S	Peak	45.52	-13.71	31.81	40.00	-8.19
150.28	S	Peak	31.81	-12.79	19.02	43.50	-24.48
354.95	S	Peak	33.55	-10.11	23.44	46.00	-22.56
511.12	S	Peak	28.81	-7.44	21.37	46.00	-24.63
696.39	S	Peak	28.36	-3.94	24.42	46.00	-21.58
868.08	S	Peak	28.52	-1.61	26.91	46.00	-19.09
3421.40	H	Peak	37.60	4.33	41.93	54.00	-12.07
5132.10	H	---					
6842.80	H	---					
8553.50	H	---					
10264.20	H	---					
11974.90	H	---					
13685.60	H	---					
15396.30	H	---					
17107.00	H	---					

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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1710.7 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dB $\mu$ V		dB $\mu$ V/m	dB $\mu$ V/m	
111.48	S	Peak	47.12	-15.88	31.24	43.50	-12.26
170.65	S	Peak	45.56	-12.99	32.57	43.50	-10.93
373.38	S	Peak	43.79	-9.72	34.07	46.00	-11.93
558.65	S	Peak	36.86	-6.78	30.08	46.00	-15.92
743.92	S	Peak	27.63	-2.96	24.67	46.00	-21.33
948.59	S	Peak	26.62	0.16	26.78	46.00	-19.22
3421.40	H	Peak	36.25	4.33	40.58	54.00	-13.42
5132.10	H	---					
6842.80	H	---					
8553.50	H	---					
10264.20	H	---					
11974.90	H	---					
13685.60	H	---					
15396.30	H	---					
17107.00	H	---					

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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1732.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.82	S	Peak	45.85	-13.71	32.14	40.00	-7.86
150.28	S	Peak	30.97	-12.79	18.18	43.50	-25.32
366.59	S	Peak	33.62	-9.86	23.76	46.00	-22.24
558.65	S	Peak	28.28	-6.78	21.50	46.00	-24.50
758.47	S	Peak	26.00	-2.70	23.30	46.00	-22.70
970.90	S	Peak	27.74	0.16	27.90	54.00	-26.10
3465.00	H	Peak	36.94	4.10	41.04	54.00	-12.96
5197.50	H	---					
6930.00	H	---					
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	H	---					

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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1732.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
98.87	S	Peak	49.40	-17.96	31.44	43.50	-12.06
170.65	S	Peak	44.86	-12.99	31.87	43.50	-11.63
373.38	S	Peak	43.66	-9.72	33.94	46.00	-12.06
558.65	S	Peak	36.74	-6.78	29.96	46.00	-16.04
664.38	S	Peak	27.69	-4.19	23.50	46.00	-22.50
945.68	S	Peak	26.89	0.12	27.01	46.00	-18.99
3465.00	H	Peak	36.63	4.10	40.73	54.00	-13.27
5197.50	H	---					
6930.00	H	---					
8662.50	H	---					
10395.00	H	---					
12127.50	H	---					
13860.00	H	---					
15592.50	H	---					
17325.00	H	---					

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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1754.3 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.82	S	Peak	46.05	-13.71	32.34	40.00	-7.66
150.28	S	Peak	31.49	-12.79	18.70	43.50	-24.80
366.59	S	Peak	34.47	-9.86	24.61	46.00	-21.39
468.44	S	Peak	29.04	-7.90	21.14	46.00	-24.86
690.57	S	Peak	27.54	-3.72	23.82	46.00	-22.18
947.62	S	Peak	27.65	0.16	27.81	46.00	-18.19
3508.60	H	Peak	34.48	4.48	38.96	54.00	-15.04
5262.90	H	---					
7017.20	H	---					
8771.50	H	---					
10525.80	H	---					
12280.10	H	---					
14034.40	H	---					
15788.70	H	---					
17543.00	H	---					

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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1754.3 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
98.87	S	Peak	48.72	-17.96	30.76	43.50	-12.74
170.65	S	Peak	44.65	-12.99	31.66	43.50	-11.84
373.38	S	Peak	43.37	-9.72	33.65	46.00	-12.35
558.65	S	Peak	36.49	-6.78	29.71	46.00	-16.29
724.52	S	Peak	27.59	-4.05	23.54	46.00	-22.46
943.74	S	Peak	27.00	0.10	27.10	46.00	-18.90
3508.60	H	Peak	35.62	4.48	40.10	54.00	-13.90
5262.90	H	---					
7017.20	H	---					
8771.50	H	---					
10525.80	H	---					
12280.10	H	---					
14034.40	H	---					
15788.70	H	---					
17543.00	H	---					

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)**

Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2502.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.82	S	Peak	45.73	-13.71	32.02	40.00	-7.98
164.83	S	Peak	32.14	-12.78	19.36	43.50	-24.14
366.59	S	Peak	34.44	-9.86	24.58	46.00	-21.42
558.65	S	Peak	28.83	-6.78	22.05	46.00	-23.95
742.95	S	Peak	26.33	-3.00	23.33	46.00	-22.67
948.59	S	Peak	27.59	0.16	27.75	46.00	-18.25
5005.00	H	Peak	34.67	7.20	41.87	54.00	-12.13
7507.50	H	---					
10010.00	H	---					
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	H	---					

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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2502.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
98.87	S	Peak	49.24	-17.96	31.28	43.50	-12.22
170.65	S	Peak	45.24	-12.99	32.25	43.50	-11.25
373.38	S	Peak	43.76	-9.72	34.04	46.00	-11.96
558.65	S	Peak	37.27	-6.78	30.49	46.00	-15.51
757.50	S	Peak	26.37	-2.70	23.67	46.00	-22.33
911.73	S	Peak	27.29	-0.46	26.83	46.00	-19.17
5005.00	H	Peak	34.83	7.20	42.03	54.00	-11.97
7507.50	H	---					
10010.00	H	---					
12512.50	H	---					
15015.00	H	---					
17517.50	H	---					
20020.00	H	---					
22522.50	H	---					
25025.00	H	---					

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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2535 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.82	S	Peak	45.93	-13.71	32.22	40.00	-7.78
159.01	S	Peak	32.00	-12.65	19.35	43.50	-24.15
354.95	S	Peak	34.08	-10.11	23.97	46.00	-22.03
504.33	S	Peak	29.31	-7.49	21.82	46.00	-24.18
720.64	S	Peak	27.91	-4.23	23.68	46.00	-22.32
970.90	S	Peak	26.52	0.16	26.68	54.00	-27.32
5070.00	H	Peak	34.46	7.28	41.74	54.00	-12.26
7605.00	H	---					
10140.00	H	---					
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2535 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
101.78	S	Peak	48.30	-17.51	30.79	43.50	-12.71
170.65	S	Peak	45.91	-12.99	32.92	43.50	-10.58
373.38	S	Peak	43.41	-9.72	33.69	46.00	-12.31
558.65	S	Peak	37.91	-6.78	31.13	46.00	-14.87
732.28	S	Peak	26.97	-3.64	23.33	46.00	-22.67
990.30	S	Peak	27.22	0.09	27.31	54.00	-26.69
5070.00	H	Peak	34.34	7.28	41.62	54.00	-12.38
7605.00	H	---					
10140.00	H	---					
12675.00	H	---					
15210.00	H	---					
17745.00	H	---					
20280.00	H	---					
22815.00	H	---					
25350.00	H	---					

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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2567.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.82	S	Peak	45.97	-13.71	32.26	40.00	-7.74
150.28	S	Peak	32.56	-12.79	19.77	43.50	-23.73
354.95	S	Peak	33.75	-10.11	23.64	46.00	-22.36
552.83	S	Peak	29.55	-7.19	22.36	46.00	-23.64
685.72	S	Peak	26.93	-3.69	23.24	46.00	-22.76
957.32	S	Peak	26.55	0.20	26.75	46.00	-19.25
5135.00	H	Peak	37.84	7.50	45.34	54.00	-8.66
7702.50	H	---					
10270.00	H	---					
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	H	---					

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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2567.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
101.78	S	Peak	48.62	-17.51	31.11	43.50	-12.39
161.92	S	Peak	46.02	-12.69	33.33	43.50	-10.17
373.38	S	Peak	43.74	-9.72	34.02	46.00	-11.98
558.65	S	Peak	36.87	-6.78	30.09	46.00	-15.91
660.50	S	Peak	28.69	-4.30	24.39	46.00	-21.61
961.20	S	Peak	26.74	0.21	26.95	54.00	-27.05
5135.00	H	Peak	34.53	7.50	42.03	54.00	-11.97
7702.50	H	---					
10270.00	H	---					
12837.50	H	---					
15405.00	H	---					
17972.50	H	---					
20540.00	H	---					
23107.50	H	---					
25675.00	H	---					

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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (Worst case)**

Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:706.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.82	S	Peak	46.71	-13.71	33.00	40.00	-7.00
150.28	S	Peak	31.39	-12.79	18.60	43.50	-24.90
354.95	S	Peak	33.79	-10.11	23.68	46.00	-22.32
552.83	S	Peak	29.90	-7.19	22.71	46.00	-23.29
760.41	S	Peak	26.65	-2.70	23.95	46.00	-22.05
945.68	S	Peak	26.62	0.12	26.74	46.00	-19.26
1413.00	H	Peak	39.29	-3.15	36.14	54.00	-17.86
2119.50	H	---					
2826.00	H	---					
3532.50	H	---					
4239.00	H	---					
4945.50	H	---					
5652.00	H	---					
6358.50	H	---					
7065.00	H	---					

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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:706.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
98.87	S	Peak	48.93	-17.96	30.97	43.50	-12.53
170.65	S	Peak	44.75	-12.99	31.76	43.50	-11.74
373.38	S	Peak	43.66	-9.72	33.94	46.00	-12.06
558.65	S	Peak	36.96	-6.78	30.18	46.00	-15.82
746.83	S	Peak	26.31	-2.83	23.48	46.00	-22.52
910.76	S	Peak	27.84	-0.48	27.36	46.00	-18.64
1413.00	H	Peak	39.13	-3.15	35.98	54.00	-18.02
2119.50	H	---					
2826.00	H	---					
3532.50	H	---					
4239.00	H	---					
4945.50	H	---					
5652.00	H	---					
6358.50	H	---					
7065.00	H	---					

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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:710 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.82	S	Peak	45.58	-13.71	31.87	40.00	-8.13
150.28	S	Peak	32.36	-12.79	19.57	43.50	-23.93
366.59	S	Peak	33.98	-9.86	24.12	46.00	-21.88
462.62	S	Peak	30.02	-8.04	21.98	46.00	-24.02
678.93	S	Peak	27.38	-3.70	23.68	46.00	-22.32
949.56	S	Peak	27.14	0.18	27.32	46.00	-18.68
1420.00	H	Peak	39.17	-3.13	36.04	54.00	-17.96
2130.00	H	---					
2840.00	H	---					
3550.00	H	---					
4260.00	H	---					
4970.00	H	---					
5680.00	H	---					
6390.00	H	---					
7100.00	H	---					

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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:710 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
98.87	S	Peak	48.65	-17.96	30.69	43.50	-12.81
170.65	S	Peak	45.45	-12.99	32.46	43.50	-11.04
373.38	S	Peak	43.94	-9.72	34.22	46.00	-11.78
558.65	S	Peak	37.28	-6.78	30.50	46.00	-15.50
694.45	S	Peak	27.29	-3.86	23.43	46.00	-22.57
989.33	S	Peak	27.31	0.09	27.40	54.00	-26.60
1420.00	H	Peak	37.77	-3.13	34.64	54.00	-19.36
2130.00	H	---					
2840.00	H	---					
3550.00	H	---					
4260.00	H	---					
4970.00	H	---					
5680.00	H	---					
6390.00	H	---					
7100.00	H	---					

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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:713.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
35.82	S	Peak	45.76	-13.71	32.05	40.00	-7.95
150.28	S	Peak	31.41	-12.79	18.62	43.50	-24.88
366.59	S	Peak	33.22	-9.86	23.36	46.00	-22.64
483.96	S	Peak	29.14	-7.73	21.41	46.00	-24.59
757.50	S	Peak	26.23	-2.70	23.53	46.00	-22.47
987.39	S	Peak	27.93	0.06	27.99	54.00	-26.01
1427.00	H	Peak	38.33	-3.11	35.22	54.00	-18.78
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	H	---					

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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:713.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
111.48	S	Peak	46.31	-15.88	30.43	43.50	-13.07
159.01	S	Peak	44.98	-12.65	32.33	43.50	-11.17
373.38	S	Peak	43.43	-9.72	33.71	46.00	-12.29
558.65	S	Peak	36.98	-6.78	30.20	46.00	-15.80
738.10	S	Peak	26.33	-3.26	23.07	46.00	-22.93
958.29	S	Peak	27.86	0.21	28.07	46.00	-17.93
1427.00	H	Peak	37.99	-3.11	34.88	54.00	-19.12
2140.50	H	---					
2854.00	H	---					
3567.50	H	---					
4281.00	H	---					
4994.50	H	---					
5708.00	H	---					
6421.50	H	---					
7135.00	H	---					

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## 11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

### 11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

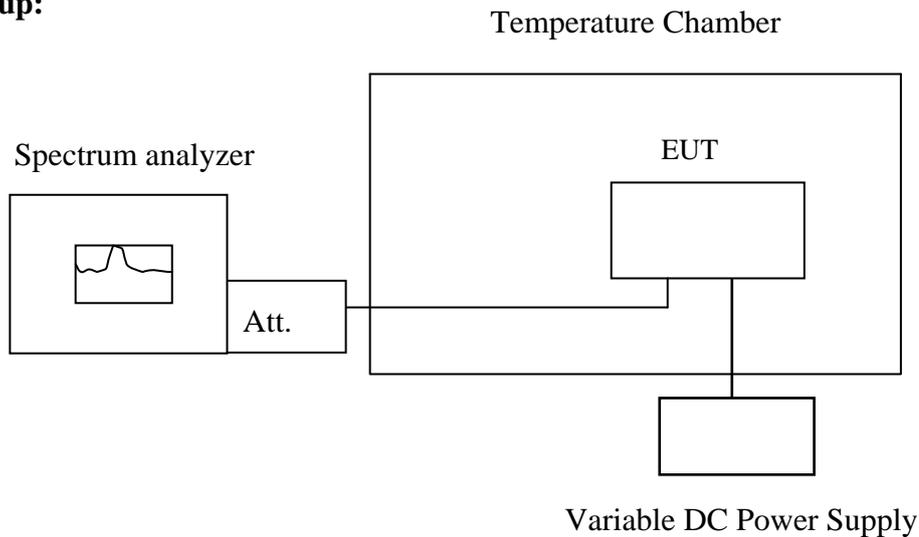
+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

+/-2.5ppm for 2500MHz band

### 11.2. Test Set-up:



**Note:** Measurement setup for testing on Antenna connector

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### 11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25 °C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 °C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10 °C increased per stage until the highest temperature of +50 °C reached.

### 11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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**11.5. Measurement Result:**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	50	836600027	1	2091
3.8	40	836600029	3	2091
3.8	30	836600028	2	2091
3.8	20	836600026	0	2091
3.8	10	836600027	1	2091
3.8	0	836600027	1	2091
3.8	-10	836600031	5	2091
3.8	-20	836600027	1	2091
3.8	-30	836600024	-2	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	50	1880000066	1	4700
3.8	40	1880000063	-2	4700
3.8	30	1880000065	0	4700
3.8	20	1880000065	0	4700
3.8	10	1880000058	-7	4700
3.8	0	1880000055	-10	4700
3.8	-10	1880000057	-8	4700
3.8	-20	1880000055	-10	4700
3.8	-30	1880000056	-9	4700

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Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	50	836599999	9	2091
3.8	40	836599991	1	2091
3.8	30	836599990	0	2091
3.8	20	836599990	0	2091
3.8	10	836599995	5	2091
3.8	0	836599991	1	2091
3.8	-10	836599982	-8	2091
3.8	-20	836600001	11	2091
3.8	-30	836599982	-8	2091

Reference Frequency: WCDMA IV Mid Channel 1732.6				
Limit: +/- 2.5 ppm = 4331 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	50	173259999	13	4331
3.8	40	173259987	1	4331
3.8	30	173259990	4	4331
3.8	20	173259986	0	4331
3.8	10	173259992	6	4331
3.8	0	173260000	14	4331
3.8	-10	173259998	12	4331
3.8	-20	173259988	2	4331
3.8	-30	173259991	5	4331

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Reference Frequency: WCDMA II Mid Channel 1880				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	50	1880000001	15	4700
3.8	40	1879999991	5	4700
3.8	30	1879999991	5	4700
3.8	20	1879999986	0	4700
3.8	10	1879999981	-5	4700
3.8	0	1879999991	5	4700
3.8	-10	1879999992	6	4700
3.8	-20	1879999997	11	4700
3.8	-30	1879999994	8	4700

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 1.4M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500002	-0.20	4331
3.8	-20	1732.500007	4.80	4331
3.8	-10	1732.500005	2.00	4331
3.8	0	1732.500000	-2.30	4331
3.8	10	1732.499999	-3.70	4331
3.8	20	1732.500003	0.00	4331
3.8	30	1732.499999	-3.20	4331
3.8	40	1732.500003	0.70	4331
3.8	50	1732.499999	-3.20	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 1.4M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500008	3.10	4331
3.8	-20	1732.500005	0.30	4331
3.8	-10	1732.500005	-0.20	4331
3.8	0	1732.500005	0.70	4331
3.8	10	1732.500006	0.80	4331
3.8	20	1732.500005	0.00	4331
3.8	30	1732.500007	1.80	4331
3.8	40	1732.500001	-3.50	4331
3.8	50	1732.500001	-4.10	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 3M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500005	-2.50	4331
3.8	-20	1732.500001	-6.70	4331
3.8	-10	1732.500008	-0.10	4331
3.8	0	1732.500001	-7.00	4331
3.8	10	1732.500004	-3.80	4331
3.8	20	1732.500008	0.00	4331
3.8	30	1732.500002	-5.40	4331
3.8	40	1732.499999	-8.90	4331
3.8	50	1732.500001	-6.90	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 3M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.499995	-10.30	4331
3.8	-20	1732.500009	3.70	4331
3.8	-10	1732.500004	-1.60	4331
3.8	0	1732.500001	-5.00	4331
3.8	10	1732.500003	-2.30	4331
3.8	20	1732.500006	0.00	4331
3.8	30	1732.500001	-4.20	4331
3.8	40	1732.500003	-3.00	4331
3.8	50	1732.500001	-4.80	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 5M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500005	-2.90	4331
3.8	-20	1732.500003	-4.60	4331
3.8	-10	1732.500004	-3.80	4331
3.8	0	1732.500004	-3.50	4331
3.8	10	1732.500002	-5.40	4331
3.8	20	1732.500008	0.00	4331
3.8	30	1732.500003	-4.20	4331
3.8	40	1732.500007	-1.00	4331
3.8	50	1732.500005	-2.70	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 5M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500001	-6.40	4331
3.8	-20	1732.500006	-1.90	4331
3.8	-10	1732.500011	3.50	4331
3.8	0	1732.500001	-6.40	4331
3.8	10	1732.499997	-10.40	4331
3.8	20	1732.500008	0.00	4331
3.8	30	1732.500005	-3.10	4331
3.8	40	1732.500007	-1.00	4331
3.8	50	1732.500003	-5.10	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 10M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500009	1.60	4331
3.8	-20	1732.500001	-6.20	4331
3.8	-10	1732.500000	-7.70	4331
3.8	0	1732.500010	2.10	4331
3.8	10	1732.500003	-4.20	4331
3.8	20	1732.500008	0.00	4331
3.8	30	1732.500006	-1.20	4331
3.8	40	1732.500008	0.30	4331
3.8	50	1732.500001	-6.70	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 10M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500003	-4.30	4331
3.8	-20	1732.500003	-5.10	4331
3.8	-10	1732.500002	-5.50	4331
3.8	0	1732.500002	-5.30	4331
3.8	10	1732.500007	-1.00	4331
3.8	20	1732.500008	0.00	4331
3.8	30	1732.500007	-1.00	4331
3.8	40	1732.500005	-3.10	4331
3.8	50	1732.500002	-5.60	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 15M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.499996	-6.70	4331
3.8	-20	1732.499992	-10.10	4331
3.8	-10	1732.500002	-0.70	4331
3.8	0	1732.500001	-1.70	4331
3.8	10	1732.500002	0.00	4331
3.8	20	1732.500002	0.00	4331
3.8	30	1732.500005	2.20	4331
3.8	40	1732.500007	4.20	4331
3.8	50	1732.500004	1.60	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 15M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500003	-1.80	4331
3.8	-20	1732.499994	-10.40	4331
3.8	-10	1732.500000	-4.50	4331
3.8	0	1732.499996	-8.40	4331
3.8	10	1732.500005	0.90	4331
3.8	20	1732.500005	0.00	4331
3.8	30	1732.500007	2.00	4331
3.8	40	1732.500004	-0.80	4331
3.8	50	1732.500003	-1.60	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500005	3.80	4331
3.8	-20	1732.500002	1.00	4331
3.8	-10	1732.499997	-4.30	4331
3.8	0	1732.500004	3.20	4331
3.8	10	1732.500002	1.10	4331
3.8	20	1732.500001	0.00	4331
3.8	30	1732.500007	5.70	4331
3.8	40	1732.500004	3.00	4331
3.8	50	1732.500002	0.90	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 20M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	1732.500005	-1.70	4331
3.8	-20	1732.500001	-5.50	4331
3.8	-10	1732.500010	2.80	4331
3.8	0	1732.500001	-5.90	4331
3.8	10	1732.500004	-3.00	4331
3.8	20	1732.500007	0.00	4331
3.8	30	1732.500005	-2.30	4331
3.8	40	1732.500004	-3.30	4331
3.8	50	1732.500006	-1.20	4331

Reference Frequency: LTE B7 Mid Channel 2535.0 MHz 5M QPSK CH 21100				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	-30	2535.000005	4.50	6338
3.8	-20	2535.000012	11.50	6338
3.8	-10	2534.999998	-2.50	6338
3.8	0	2535.000003	2.50	6338
3.8	10	2534.999989	-11.50	6338
3.8	20	2535.000001	0.00	6338
3.8	30	2535.000002	1.00	6338
3.8	40	2535.000002	1.80	6338
3.8	50	2535.000005	4.60	6338

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	2535.000005	1.70	6338	
3.8	-20	2535.000003	0.00	6338	
3.8	-10	2534.999998	-4.90	6338	
3.8	0	2535.000007	3.70	6338	
3.8	10	2535.000006	3.00	6338	
3.8	20	2535.000003	0.00	6338	
3.8	30	2535.000006	2.30	6338	
3.8	40	2535.000001	-2.10	6338	
3.8	50	2535.000003	-0.30	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	2534.999997	-5.90	6338	
3.8	-20	2535.000007	3.70	6338	
3.8	-10	2535.000004	1.20	6338	
3.8	0	2535.000007	4.30	6338	
3.8	10	2535.000004	1.10	6338	
3.8	20	2535.000003	0.00	6338	
3.8	30	2535.000003	0.60	6338	
3.8	40	2535.000007	3.70	6338	
3.8	50	2535.000005	1.80	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	2535.000006	2.00	6338	
3.8	-20	2535.000007	2.90	6338	
3.8	-10	2535.000005	1.20	6338	
3.8	0	2534.999999	-4.40	6338	
3.8	10	2534.999999	-4.70	6338	
3.8	20	2535.000004	0.00	6338	
3.8	30	2535.000004	0.60	6338	
3.8	40	2535.000001	-3.00	6338	
3.8	50	2535.000005	0.90	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	2534.999987	-11.40	6338	
3.8	-20	2535.000001	2.20	6338	
3.8	-10	2535.000006	7.20	6338	
3.8	0	2535.000002	3.30	6338	
3.8	10	2535.000002	3.90	6338	
3.8	20	2534.999998	0.00	6338	
3.8	30	2535.000001	2.20	6338	
3.8	40	2535.000007	8.60	6338	
3.8	50	2535.000001	2.60	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	2535.000007	8.10	6338	
3.8	-20	2535.000004	5.90	6338	
3.8	-10	2535.000003	4.10	6338	
3.8	0	2535.000001	2.50	6338	
3.8	10	2535.000002	3.20	6338	
3.8	20	2534.999998	0.00	6338	
3.8	30	2535.000000	1.90	6338	
3.8	40	2535.000005	6.20	6338	
3.8	50	2535.000003	4.20	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	2535.000006	5.60	6338	
3.8	-20	2535.000004	3.60	6338	
3.8	-10	2535.000002	1.00	6338	
3.8	0	2535.000003	2.30	6338	
3.8	10	2535.000001	0.80	6338	
3.8	20	2535.000001	0.00	6338	
3.8	30	2535.000004	3.00	6338	
3.8	40	2535.000005	3.90	6338	
3.8	50	2534.999998	-2.40	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M 16QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	2535.000009	8.00	6338	
3.8	-20	2535.000006	5.00	6338	
3.8	-10	2535.000003	1.90	6338	
3.8	0	2535.000008	7.00	6338	
3.8	10	2535.000006	5.00	6338	
3.8	20	2535.000001	0.00	6338	
3.8	30	2534.999999	-1.90	6338	
3.8	40	2535.000001	0.30	6338	
3.8	50	2535.000002	1.00	6338	

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M QPSK CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
3.8	-30	710.000007	0.70	1775	
3.8	-20	710.000003	-3.60	1775	
3.8	-10	710.000002	-4.60	1775	
3.8	0	710.000002	-3.90	1775	
3.8	10	710.000001	-5.40	1775	
3.8	20	710.000006	0.00	1775	
3.8	30	710.000001	-5.30	1775	
3.8	40	710.000004	-2.60	1775	
3.8	50	710.000002	-4.60	1775	

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M 16QAM CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	710.000002	-4.00	1775	
3.8	-20	710.000003	-2.70	1775	
3.8	-10	710.000009	3.10	1775	
3.8	0	710.000006	0.70	1775	
3.8	10	710.000002	-3.30	1775	
3.8	20	710.000006	0.00	1775	
3.8	30	710.000002	-4.10	1775	
3.8	40	710.000006	0.70	1775	
3.8	50	710.000001	-5.00	1775	

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	710.000007	5.70	1775	
3.8	-20	710.000005	4.50	1775	
3.8	-10	710.000002	1.30	1775	
3.8	0	710.000001	0.50	1775	
3.8	10	710.000002	0.80	1775	
3.8	20	710.000001	0.00	1775	
3.8	30	709.999998	-2.40	1775	
3.8	40	709.999999	-1.50	1775	
3.8	50	710.000007	5.70	1775	

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M 16QAM CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
3.8	-30	710.000003	0.00	1775	
3.8	-20	710.000007	3.90	1775	
3.8	-10	710.000002	-1.00	1775	
3.8	0	710.000002	-1.00	1775	
3.8	10	710.000006	3.00	1775	
3.8	20	710.000003	0.00	1775	
3.8	30	710.000002	-1.00	1775	
3.8	40	710.000001	-2.00	1775	
3.8	50	709.999995	-7.20	1775	

**Note: The battery is rated 3.8V dc.**

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## 12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

### 12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

+/-2.5ppm for 2500MHz band

### 12.2. Test Set-up:

Refer to section 11.2 in this report

### 12.3. Measurement Procedure:

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

### 12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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**12.5. Measurement Result:**

**GPRS850**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.3	20	836600028	2	2091
3.8	20	836600026	0	2091
3.1	20	836600025	-1	2091
2.7 (End point)	20	836600019	-7	2091

**GPRS1900**

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.3	20	1880000066	1	4700
3.8	20	1880000065	0	4700
3.1	20	1880000052	-13	4700
2.7 (End point)	20	1880000048	-17	4700

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**WCDMA II**

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	1879999990	4	4700
3.8	20	1879999986	0	4700
3.4	20	1879999984	-2	4700
2.9 (End point)	20	1879999985	-1	4700

**WCDMA IV**

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	173259991	5	4331
3.8	20	173259986	0	4331
3.4	20	173259997	11	4331
2.9 (End point)	20	173259989	3	4331

**WCDMA V**

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	836599982	-8	2091
3.8	20	836599990	0	2091
3.4	20	836599993	3	2091
2.9 (End point)	20	836599989	-1	2091

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	1.4M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500004	1.00	4331	
3.8	25	1732.500003	0.00	4331	
3.15	25	1732.500005	2.00	4331	
2.8 (End Point)	25	1732.500002	-1.00	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	1.4M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500004	-1.10	4331	
3.8	25	1732.500005	0.00	4331	
3.15	25	1732.500004	-1.20	4331	
2.8 (End Point)	25	1732.500003	-1.90	4331	

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	3M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500005	-3.00	4331	
3.8	25	1732.500008	0.00	4331	
3.15	25	1732.500003	-5.00	4331	
2.85 (End Point)	25	1732.500003	-4.90	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	3M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500003	-2.40	4331	
3.8	25	1732.500006	0.00	4331	
3.15	25	1732.500004	-1.80	4331	
2.85 (End Point)	25	1732.500002	-4.10	4331	

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	5M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500007	-1.00	4331	
3.8	25	1732.500008	0.00	4331	
3.15	25	1732.500005	-2.90	4331	
2.85 (End Point)	25	1732.500001	-6.20	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	5M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500005	-2.20	4331	
3.8	25	1732.500008	0.00	4331	
3.15	25	1732.500003	-5.00	4331	
2.85 (End Point)	25	1732.500001	-6.90	4331	

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	10M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500002	-5.90	4331	
3.8	25	1732.500008	0.00	4331	
3.15	25	1732.500007	-1.00	4331	
2.85 (End Point)	25	1732.500001	-6.70	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	10M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500003	-5.00	4331	
3.8	25	1732.500008	0.00	4331	
3.15	25	1732.500005	-3.00	4331	
2.85 (End Point)	25	1732.500001	-7.10	4331	

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	15M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500005	2.30	4331	
3.8	25	1732.500002	0.00	4331	
3.15	25	1732.500003	0.20	4331	
2.85 (End Point)	25	1732.500004	1.30	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	15M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500002	-2.90	4331	
3.8	25	1732.500005	0.00	4331	
3.15	25	1732.500005	0.50	4331	
2.85 (End Point)	25	1732.500007	2.00	4331	

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Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M QPSK CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500007	5.70	4331	
3.8	25	1732.500001	0.00	4331	
3.15	25	1732.500007	5.70	4331	
2.85 (End Point)	25	1732.500007	5.70	4331	

Reference Frequency:		LTE B4 Mid Channel	1732.5	MHz	20M 16 QAM CH 20175
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	1732.500001	-5.60	4331	
3.8	25	1732.500007	0.00	4331	
3.15	25	1732.500007	-0.30	4331	
2.85 (End Point)	25	1732.500007	-0.30	4331	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	2534.999997	-3.60	6338	
3.8	25	2535.000001	0.00	6338	
3.15	25	2534.999999	-1.40	6338	
2.6 (End Point)	25	2534.999997	-3.30	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	5M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	2534.999996	-7.40	6338	
3.8	25	2535.000003	0.00	6338	
3.15	25	2535.000001	-1.90	6338	
2.6 (End Point)	25	2535.000005	1.60	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	2534.999998	-5.30	6338	
3.8	25	2535.000003	0.00	6338	
3.15	25	2534.999995	-7.70	6338	
2.85 (End Point)	25	2535.000002	-0.50	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	10M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	2535.000007	3.30	6338	
3.8	25	2535.000004	0.00	6338	
3.15	25	2534.999998	-5.80	6338	
2.85 (End Point)	25	2534.999999	-4.60	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	2535.000007	9.00	6338	
3.8	25	2534.999998	0.00	6338	
3.15	25	2535.000004	5.70	6338	
2.85 (End Point)	25	2534.999999	0.60	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	15M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	2535.000004	5.50	6338	
3.8	25	2534.999998	0.00	6338	
3.15	25	2535.000003	4.70	6338	
2.85 (End Point)	25	2535.000000	1.20	6338	

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Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M QPSK CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	2534.999996	-4.30	6338	
3.8	25	2535.000001	0.00	6338	
3.15	25	2535.000001	0.80	6338	
2.85 (End Point)	25	2534.999999	-1.50	6338	

Reference Frequency:		LTE B7 Mid Channel	2535.0	MHz	20M 16 QAM CH 21100
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	2535.000000	-0.40	6338	
3.8	25	2535.000001	0.00	6338	
3.15	25	2534.999999	-1.60	6338	
2.85 (End Point)	25	2535.000004	3.70	6338	

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M QPSK CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	710.000000	-6.40	1775	
3.8	25	710.000006	0.00	1775	
3.15	25	710.000000	-6.70	1775	
2.7 (End Point)	25	710.000001	-5.60	1775	

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	5M 16 QAM CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	709.999994	-12.00	1775	
3.8	25	710.000006	0.00	1775	
3.15	25	709.999997	-8.80	1775	
2.6 (End Point)	25	710.000001	-5.00	1775	

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Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M QPSK CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	709.999996	-4.50	1775	
3.8	25	710.000001	0.00	1775	
3.15	25	709.999996	-5.30	1775	
2.85 (End Point)	25	710.000004	2.90	1775	

Reference Frequency:		LTE B17 Mid Channel	710.0	MHz	10M 16 QAM CH 23790
Limit: +/- 2.5 ppm = Hz					
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)	
Vdc	Temperature (°C)	(MHz)			
4.25	25	710.000002	-0.60	1775	
3.8	25	710.000003	0.00	1775	
3.15	25	709.999996	-6.50	1775	
2.85 (End Point)	25	709.999998	-5.10	1775	

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## 13. PEAK TO AVERAGE RATIO

### 13.1. Standard Applicable:

According FCC 24.232(d), FCC 27.53 (d) (5) – The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

### 13.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

### 13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:

Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal =1ms

Set the number of counts to a value that stabilizes the measured CCDF curve.

### 13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

### 13.5. Measurement Result:

Refer to next page for tabular, and plot results

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13.5.1 Tabular Results:

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 128(L)		Channel 190(M)		Channel 251(H)	
	824.2MHz		836.6MHz		848.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 850	8.98	13	9.39	13	9.77	13
GPRS 850	10.06	13	10.20	13	10.86	13
EDGE 850	10.32	13	10.54	13	11.73	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 512(L)		Channel 661(M)		Channel 810(H)	
	1850.2MHz		1880.0MHz		1909.8MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
GSM 1900	11.28	13	10.32	13	9.97	13
GPRS 1900	11.19	13	10.69	13	10.58	13
EDGE 1900	10.76	13	12.32	13	10.88	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 9262(L)		Channel 9400(M)		Channel 9538(H)	
	1852.4MHz		1880.0MHz		1907.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band II	3.36	13	3.29	13	3.34	13
HSUPA Band II	3.93	13	4.48	13	4.31	13
HSDPA Band II	4.16	13	3.95	13	4.01	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 1312(L)		Channel 1413(M)		Channel 1513(H)	
	1712.4MHz		1732.6MHz		1752.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band IV	3.07	13	2.90	13	2.59	13
HSUPA Band IV	3.88	13	3.13	13	3.56	13
HSDPA Band IV	3.78	13	3.67	13	3.60	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 4132(L)		Channel 4183(M)		Channel 4233(H)	
	826.4MHz		836.6MHz		846.6MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
WCDMA Band V	3.04	13	2.89	13	3.08	13
HSUPA Band V	3.84	13	4.11	13	4.00	13
HSDPA Band V	3.82	13	3.92	13	3.81	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 19957(L)		Channel 20175(M)		Channel 20393(H)	
	1710.7MHz		1732.5MHz		1754.3MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:1.4M	5.56	13	5.86	13	5.25	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 19965(L)		Channel 20175(M)		Channel 20385(H)	
	1711.5MHz		1732.5MHz		1753.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:3M	5.50	13	5.74	13	5.34	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 19975(L)		Channel 20175(M)		Channel 20375(H)	
	1712.5MHz		1732.5MHz		1752.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:5M	5.69	13	5.93	13	5.46	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20000 (L)		Channel 20175(M)		Channel 20350 (H)	
	1715.0MHz		1732.5MHz		1750MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:10M	5.86	13	6.03	13	5.84	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20025(L)		Channel 20175(M)		Channel 20325(H)	
	1717.5MHz		1732.5MHz		1747.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:15M	6.58	13	6.66	13	6.61	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 20050(L)		Channel 20175(M)		Channel 20300(H)	
	1720.0MHz		1732.5MHz		1745.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 4/BW:20M	7.03	13	7.08	13	7.03	13

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TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23775(L)		Channel 23790(M)		Channel 23825(H)	
	706.5MHz		710.0MHz		713.5MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 17/BW:5M	5.09	13	5.00	13	5.06	13

TEST CONDITIONS	Peak-to-Average Ratio					
	Channel 23780 (L)		Channel 23790(M)		Channel 23800 (H)	
	709.0MHz		710.0MHz		711.0MHz	
	dB		dB		dB	
Tnom / Vnom	Measured	Limit	Measured	Limit	Measured	Limit
BAND 17/BW:10M	4.98	13	5.03	13	4.88	13

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13.5.2 Measurement Results:

Figure 13-1: GSM 850 Channel Low

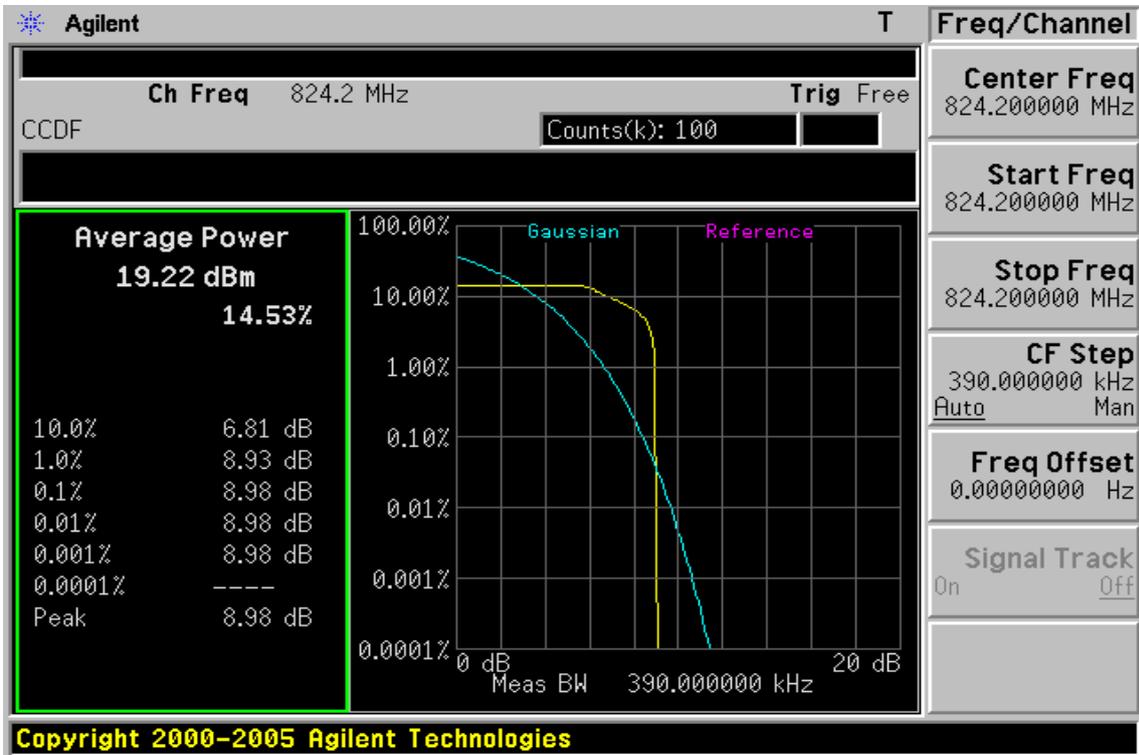
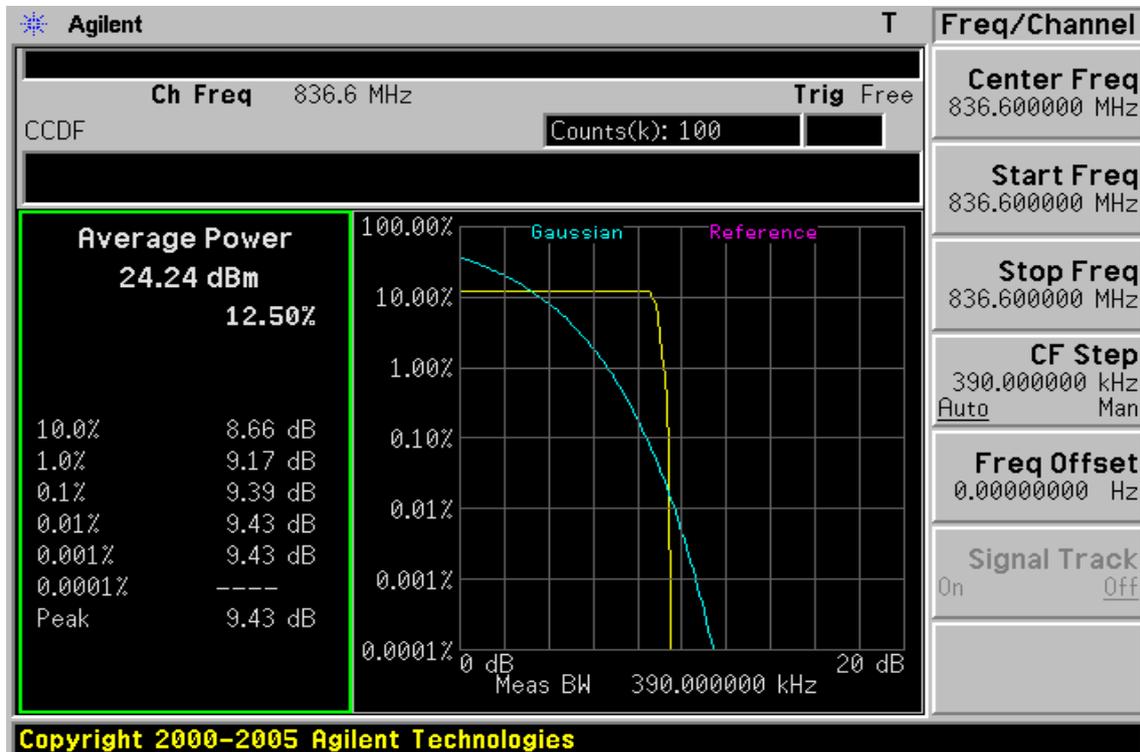


Figure 13-2: GSM 850 Channel Mid



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Figure 13-3: GSM 850 Channel High

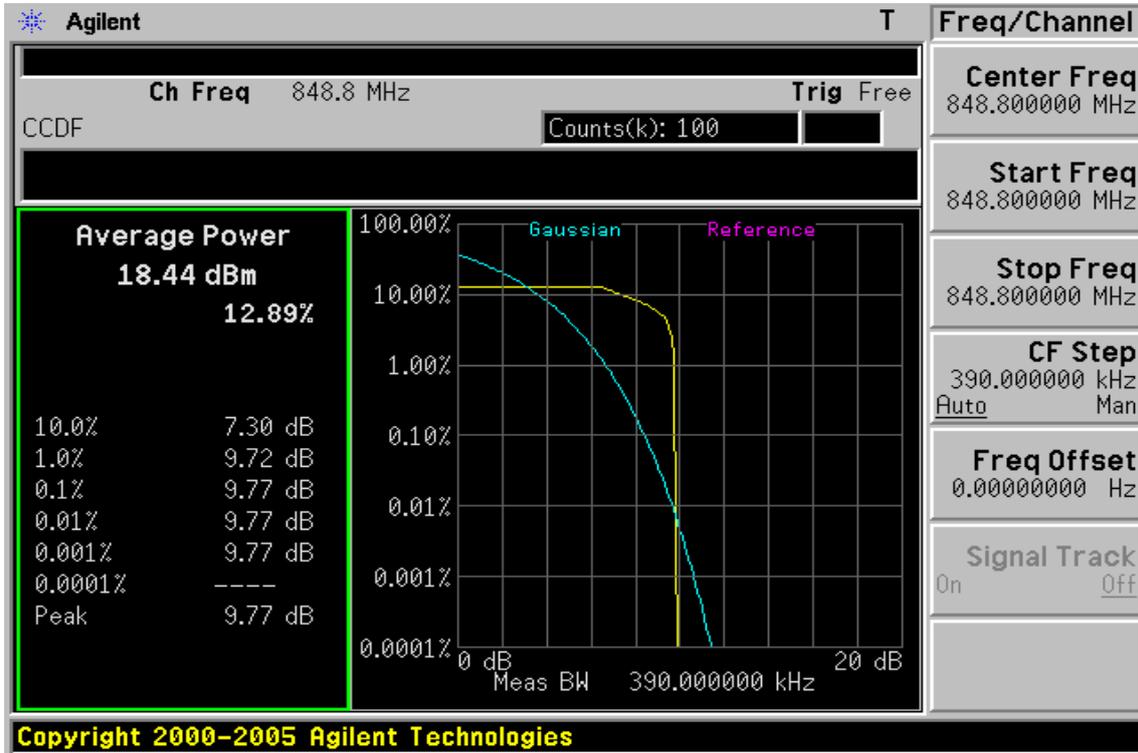
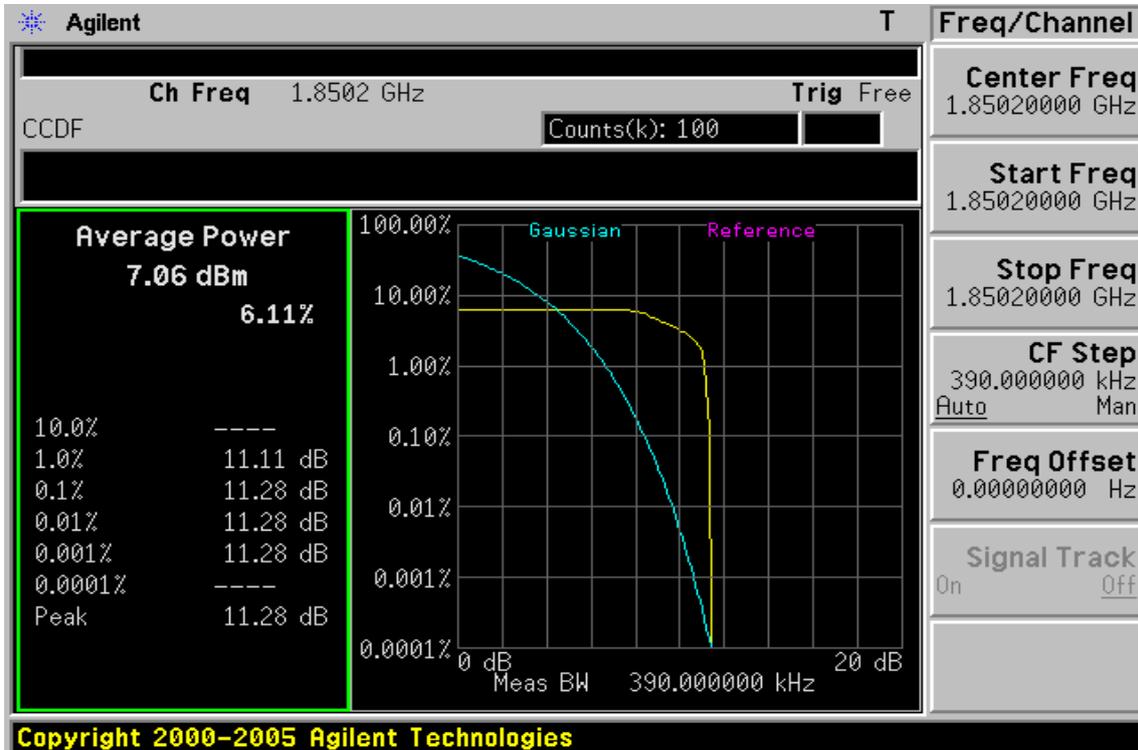


Figure 13-4: GSM 1900 Channel Low



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Figure 13-5: GSM 1900 Channel Mid

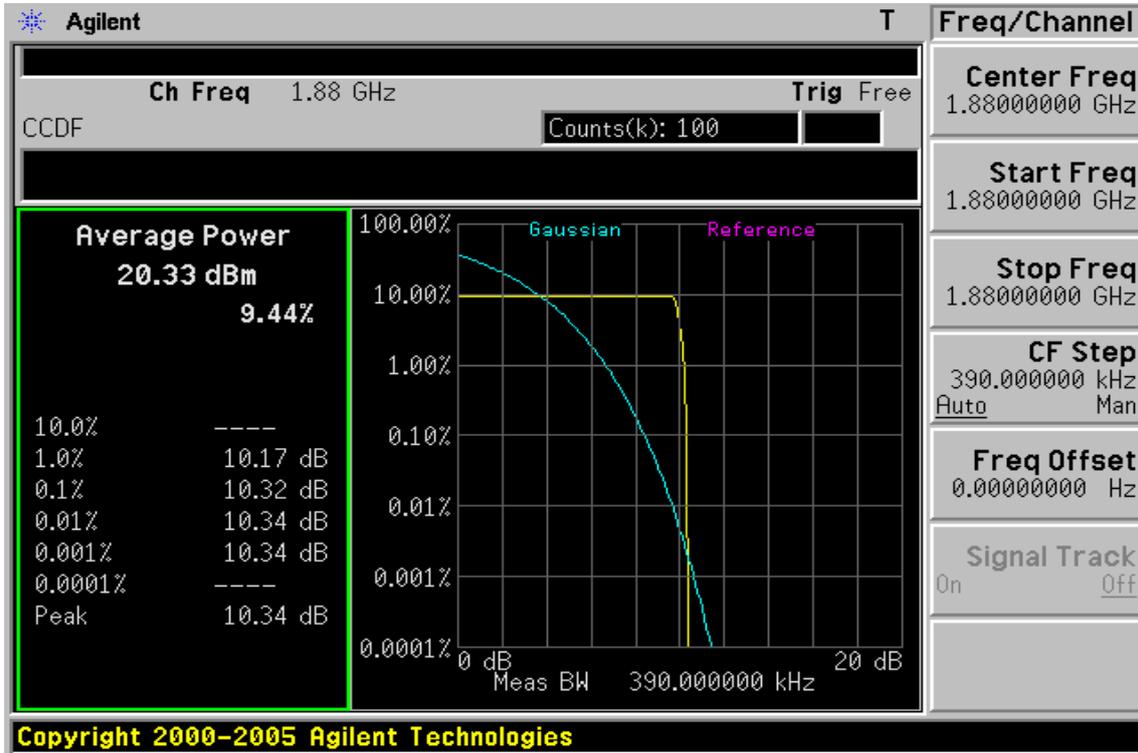
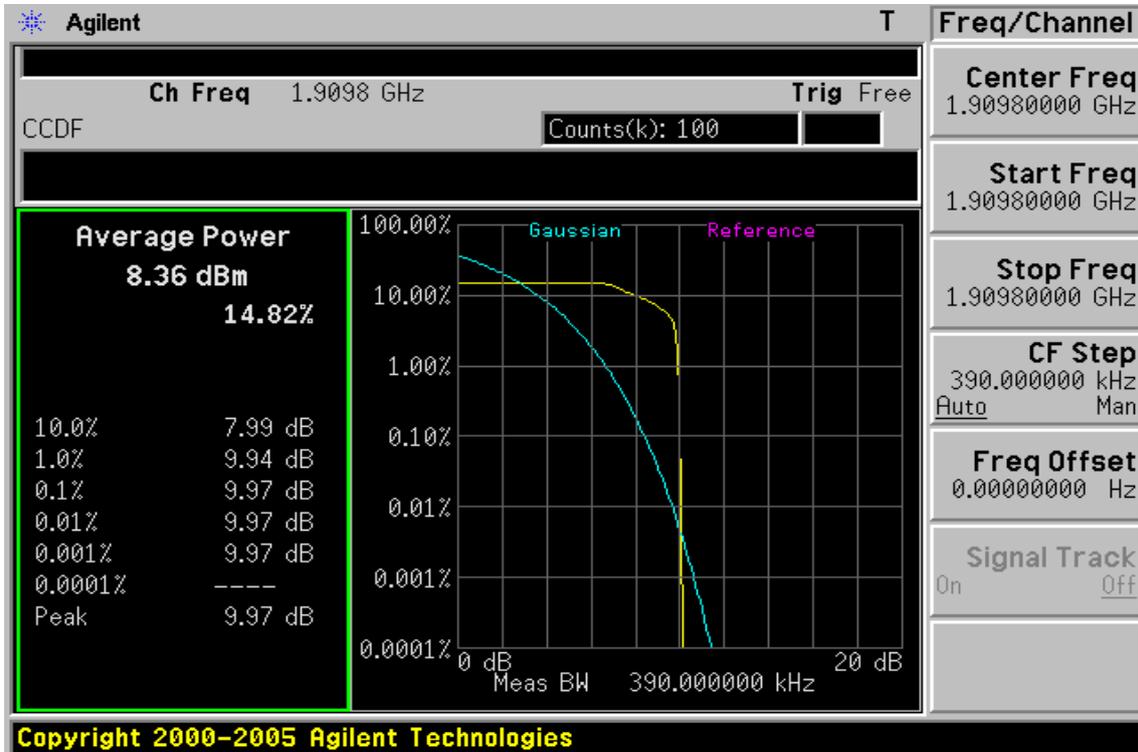


Figure 13-6: GSM 1900 Channel High



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Figure 13-7: GPRS 850 Channel Low

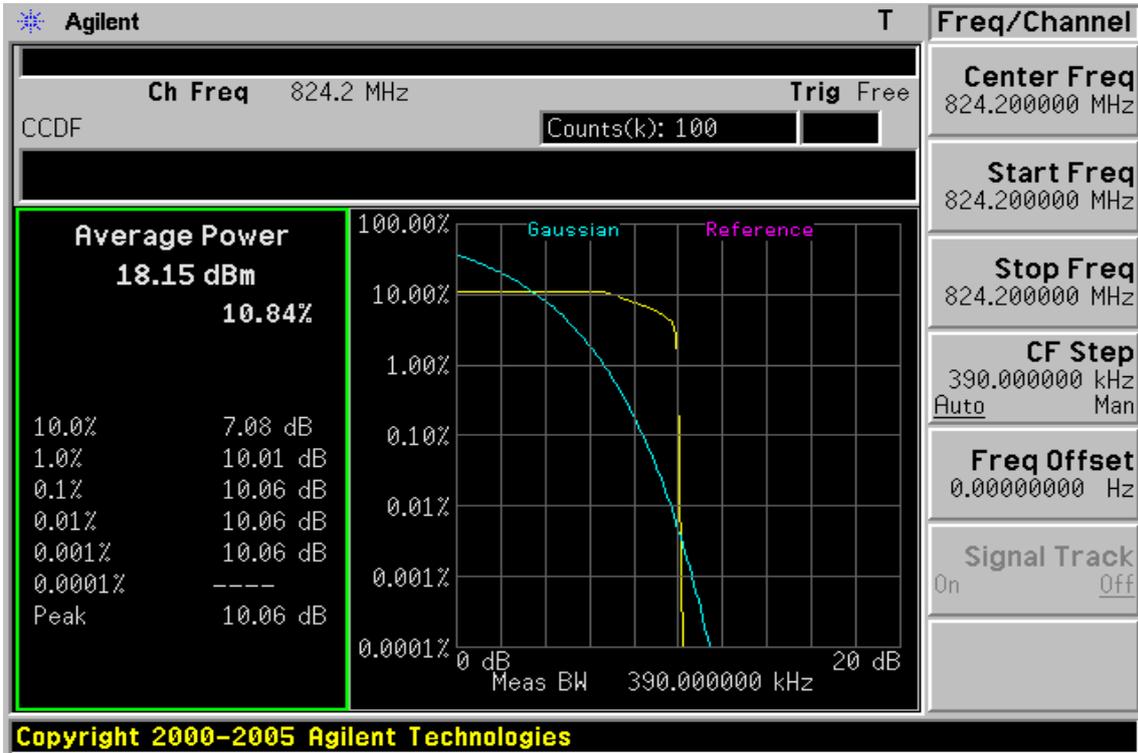
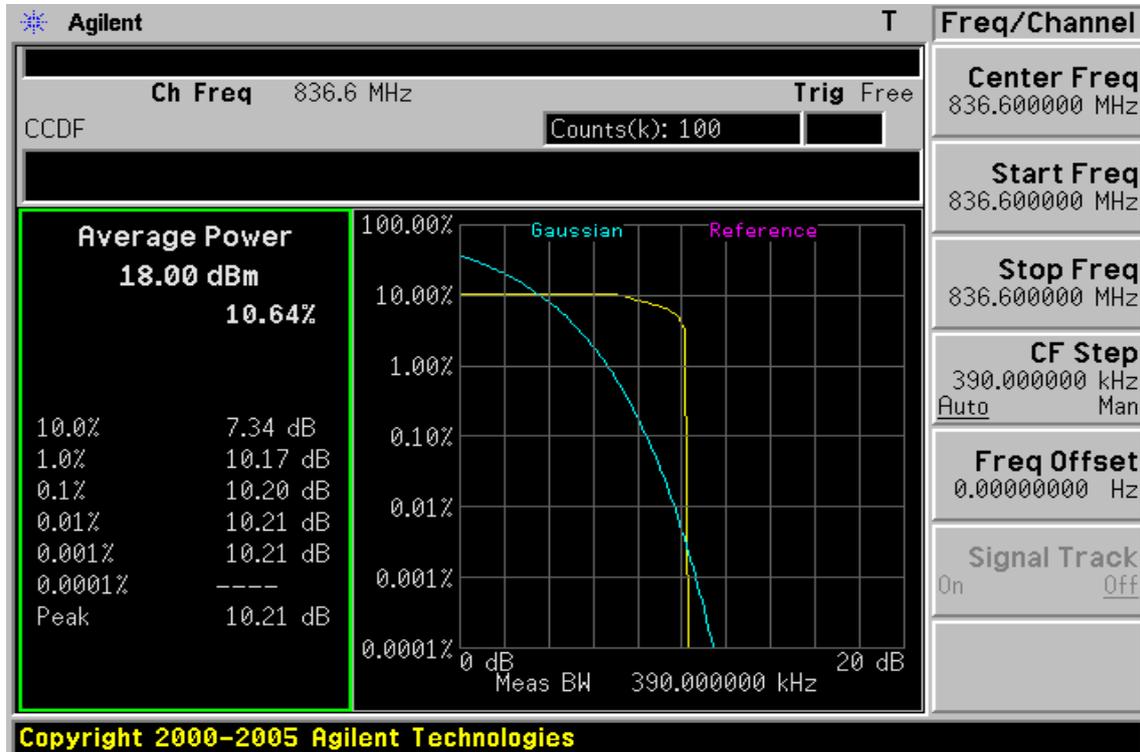


Figure 13-8: GPRS 850 Channel Mid



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Figure 13-9: GPRS 850 Channel High

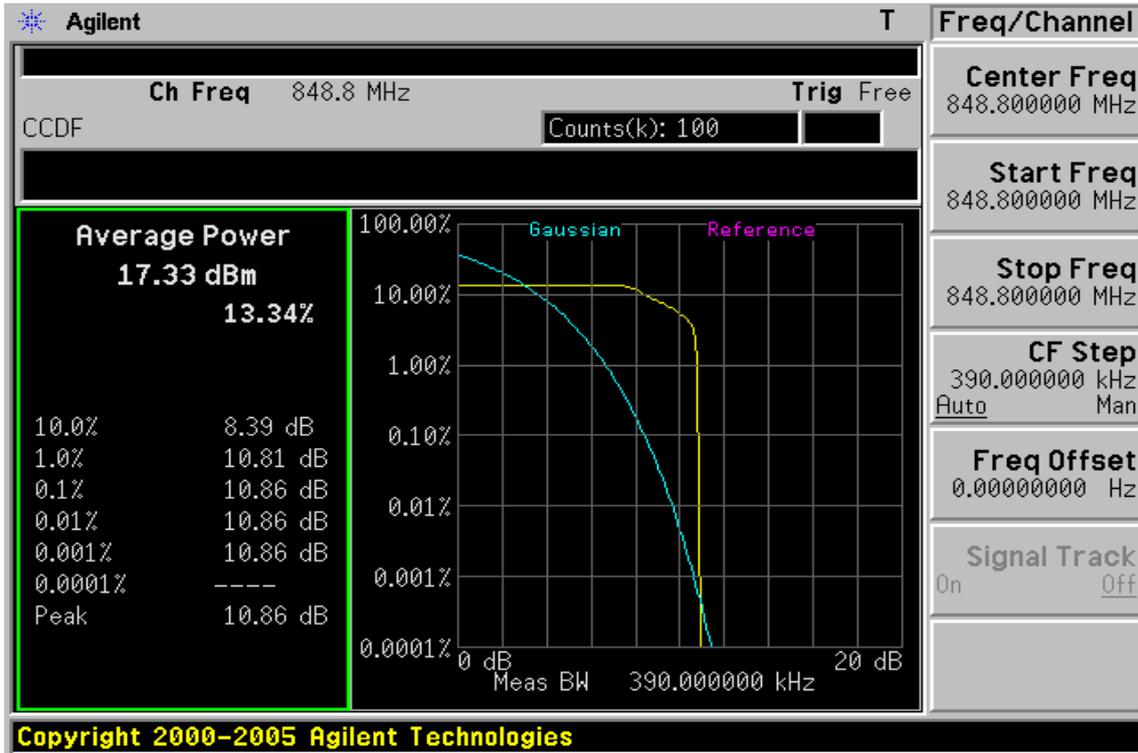


Figure 13-10: GPRS 1900 Channel Low



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Figure 13-11 GPRS 1900 Channel Mid

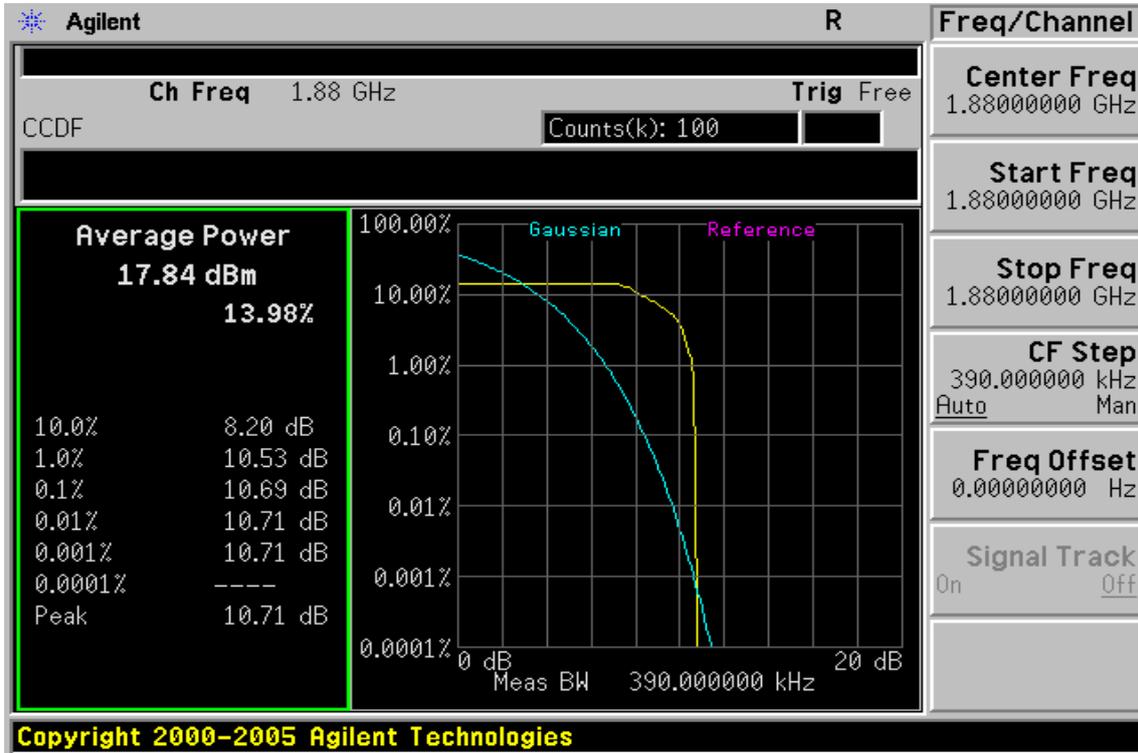
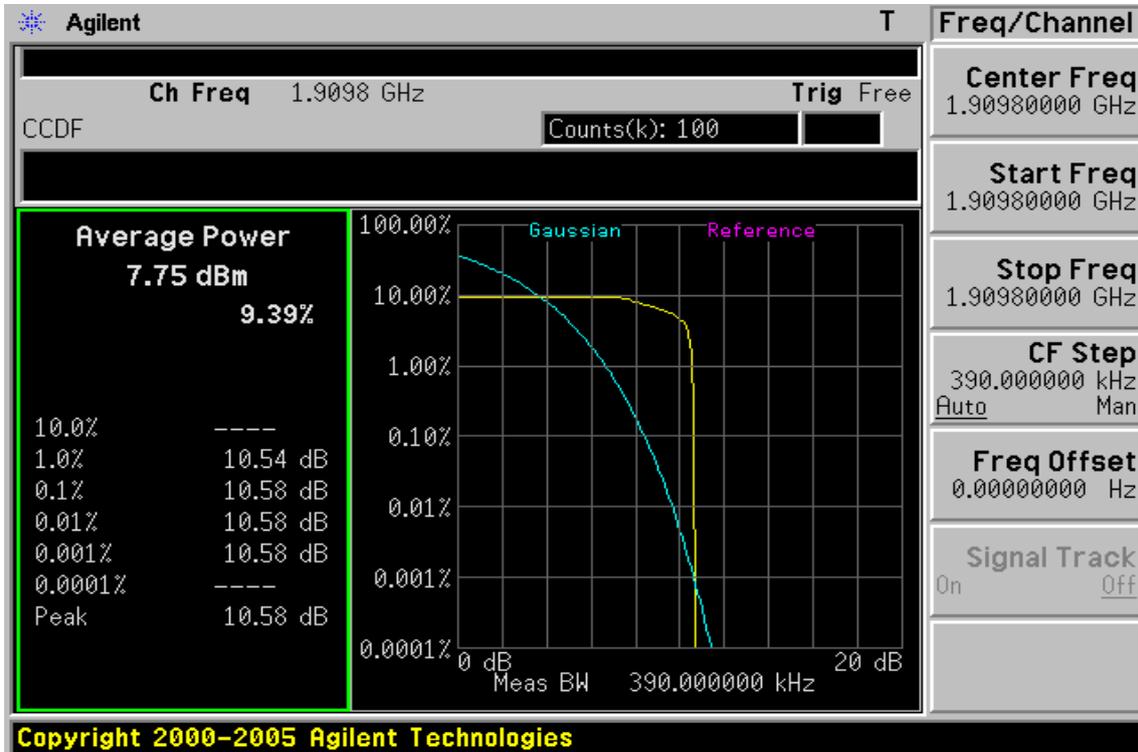


Figure 13-12: GPRS 1900 Channel High



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Figure 13-13: EDGE 850 Channel Low

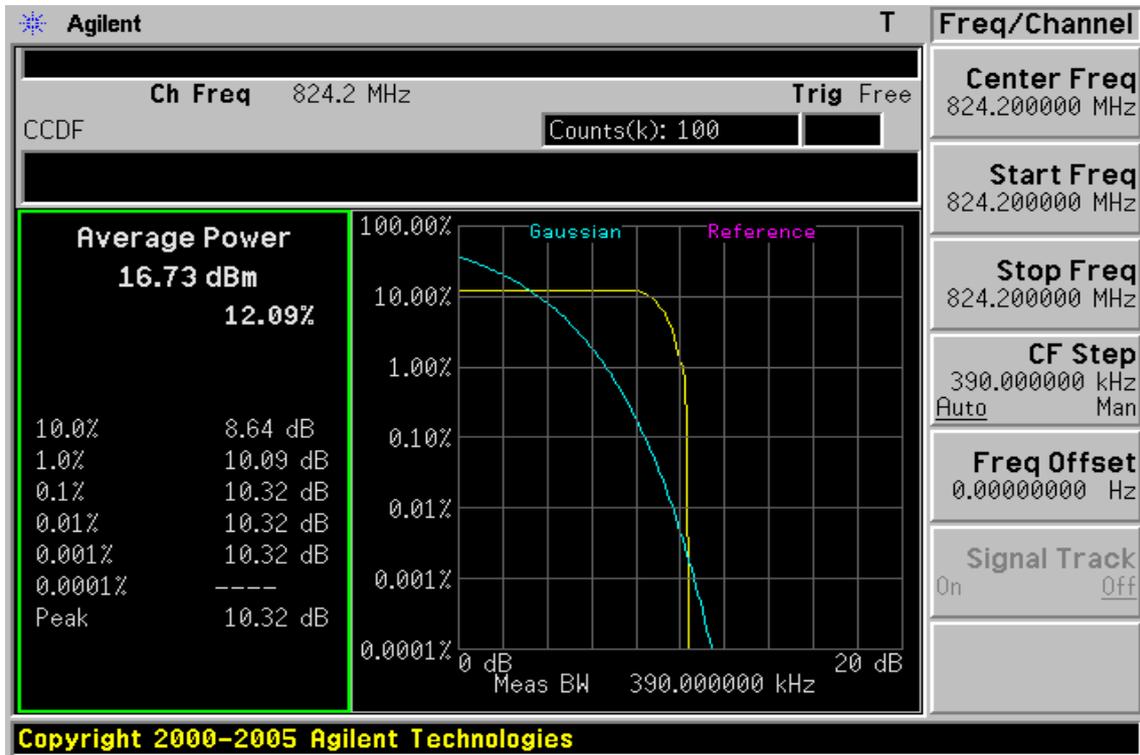
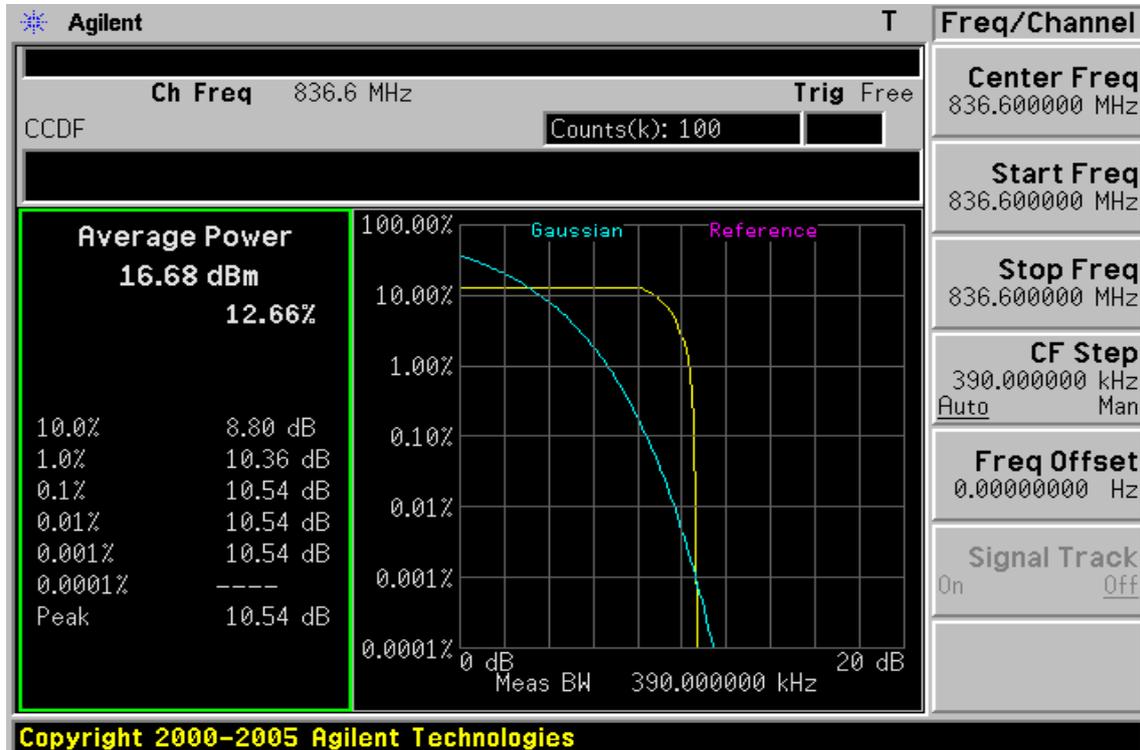


Figure 13-14 EDGE 850 Channel Mid



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Figure 13-15: EDGE 850 Channel High

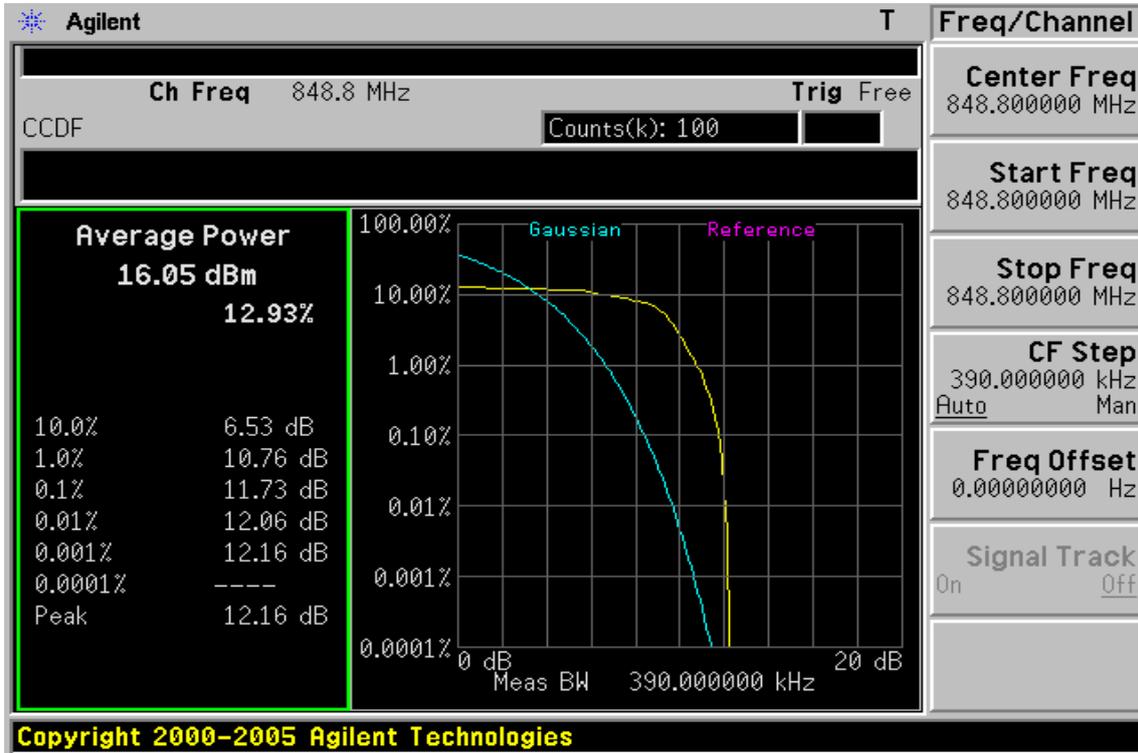


Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid

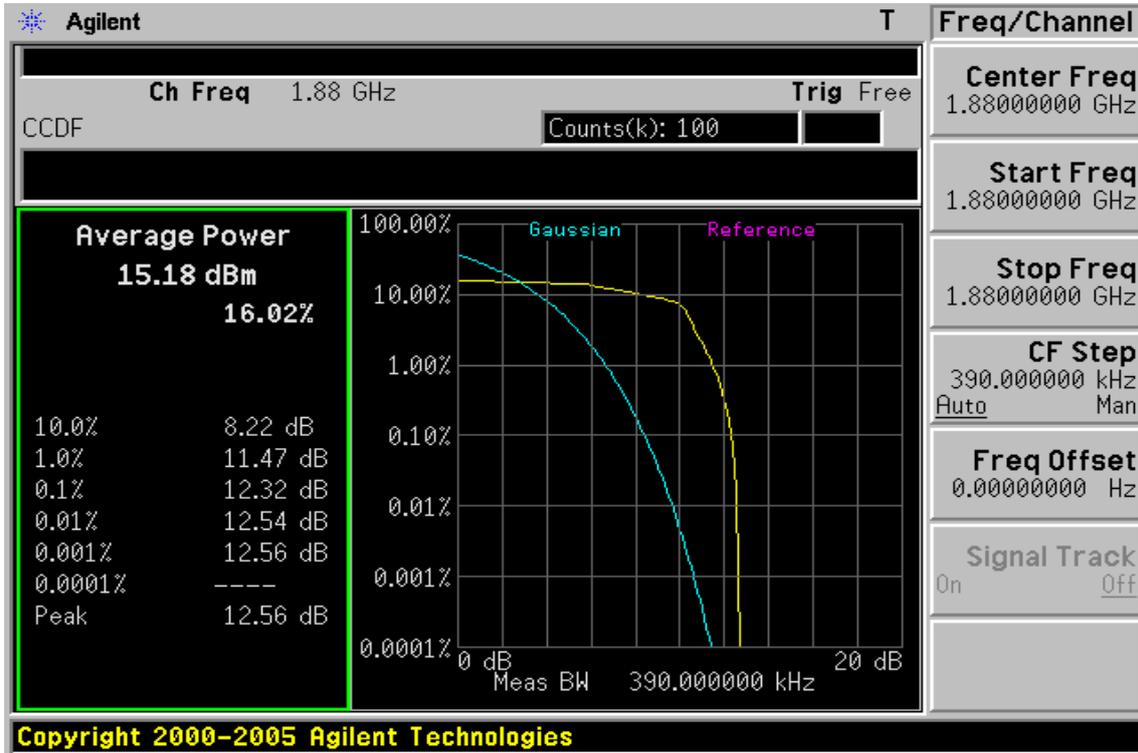
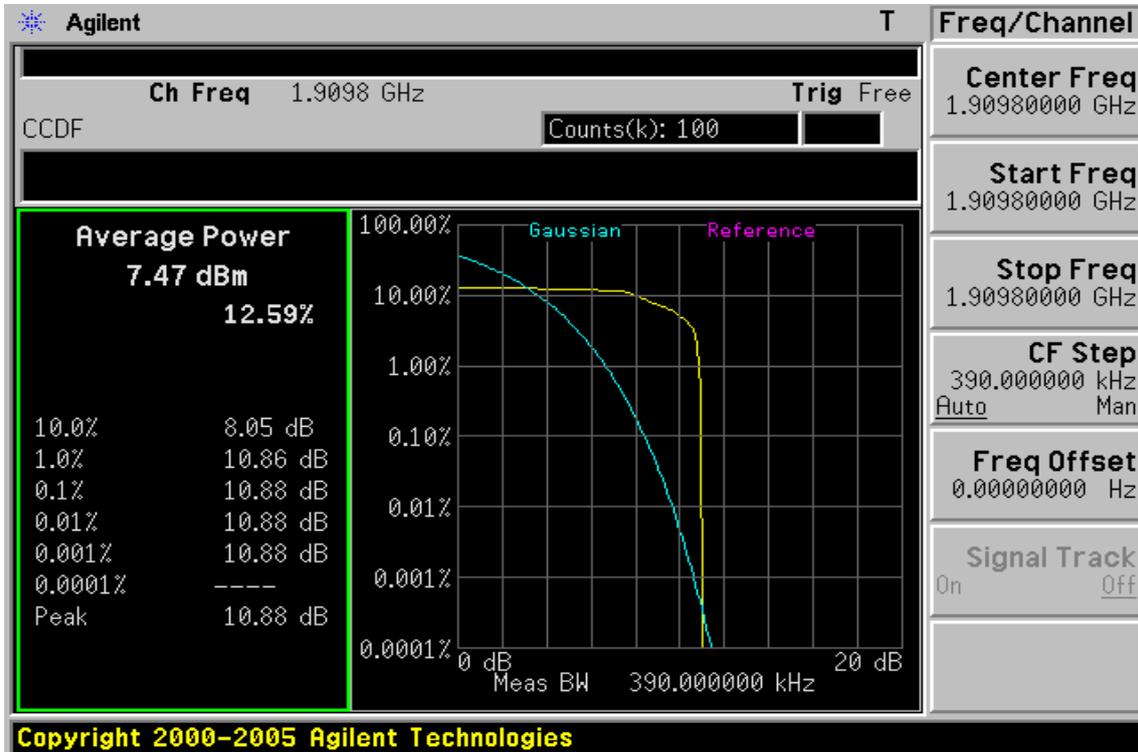


Figure 13-18: EDGE 1900 Channel High



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Figure 13-19: WCDMA Band II Channel Low

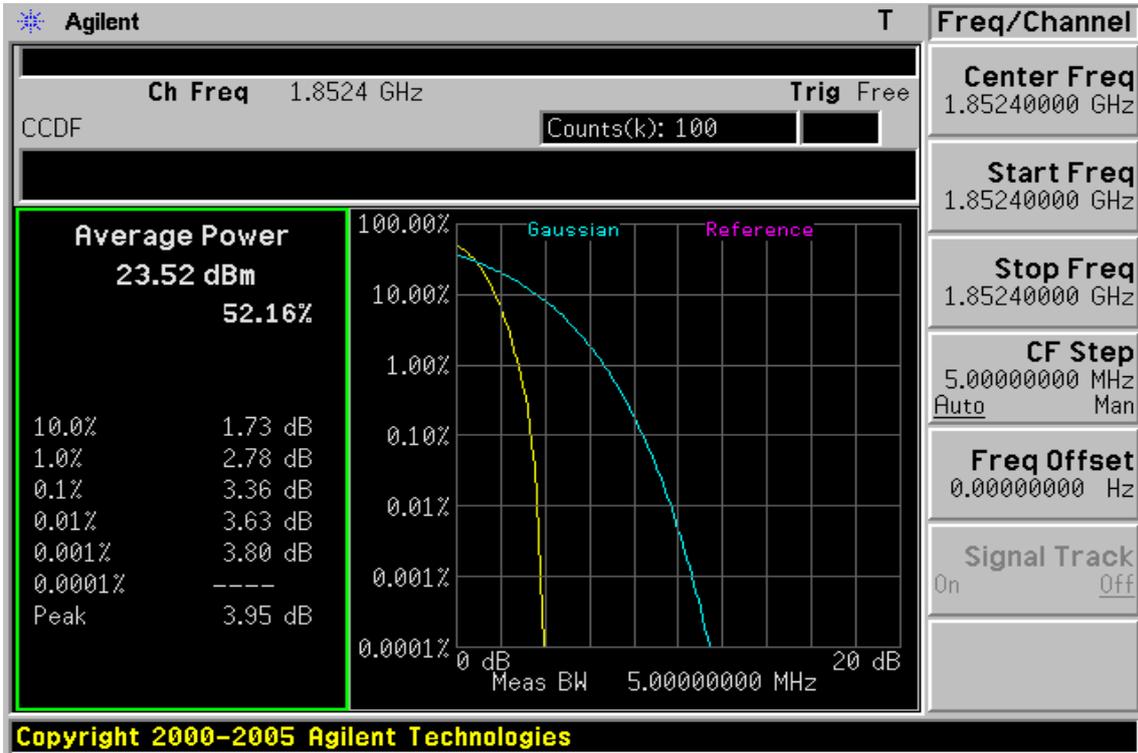
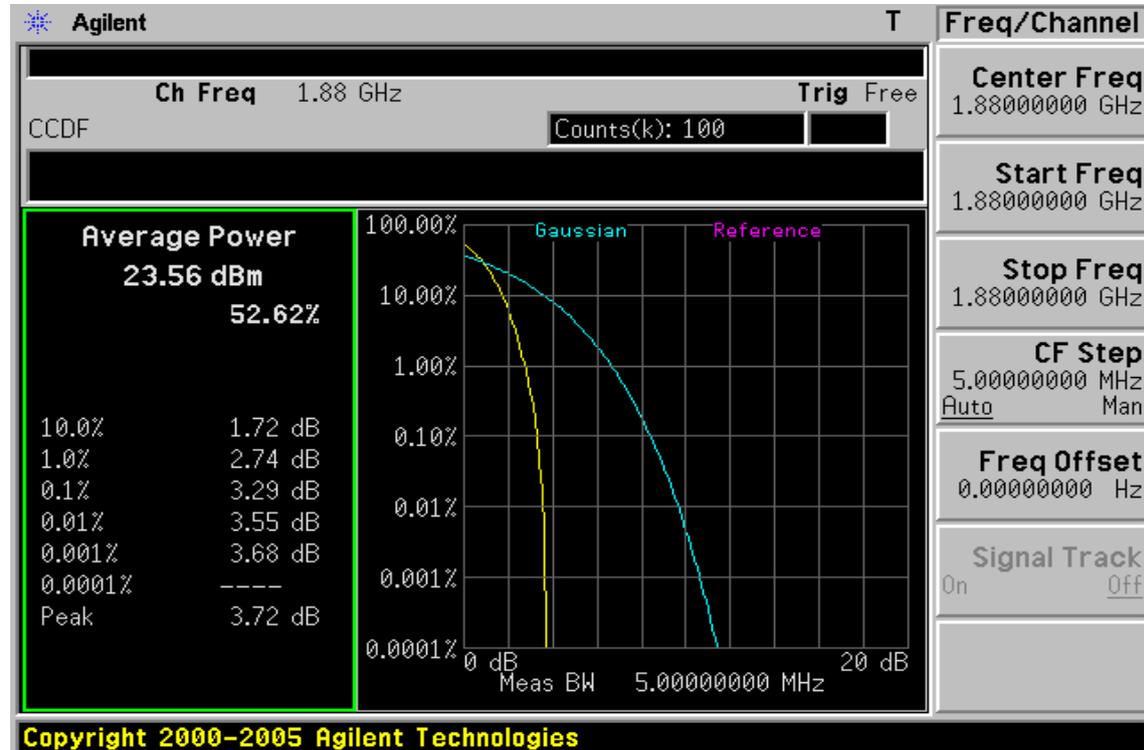


Figure 13-20: WCDMA Band II Channel Mid



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Figure 13-21: WCDMA Band II Channel High

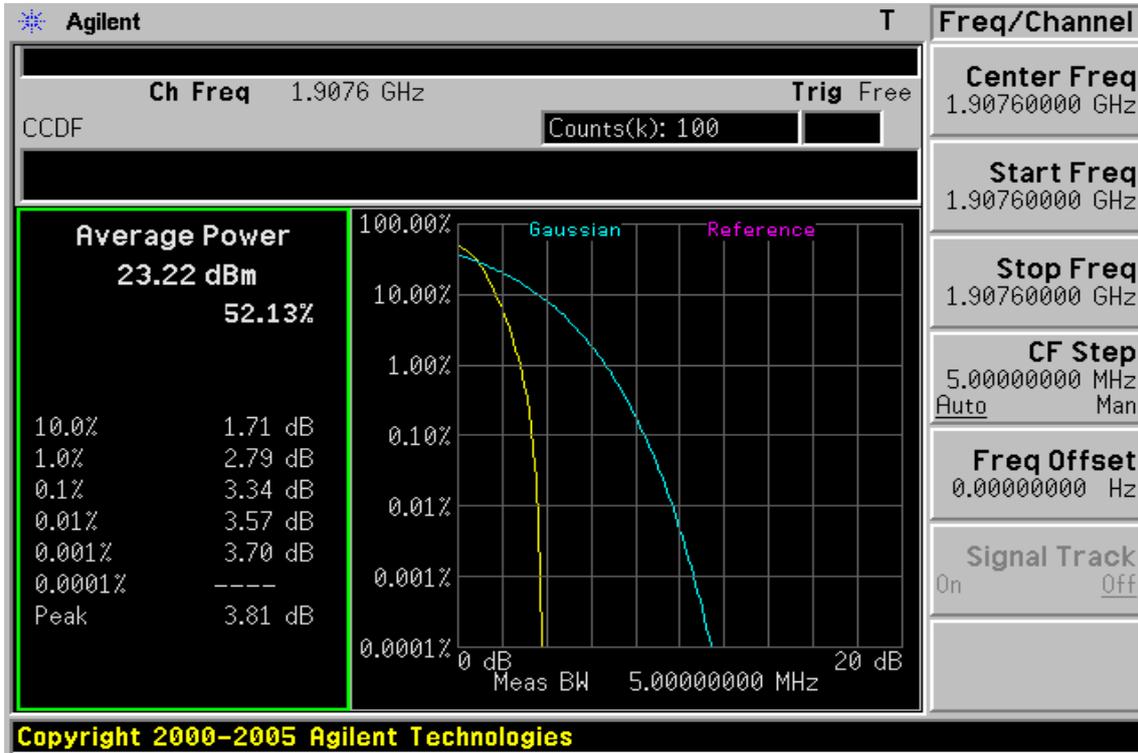
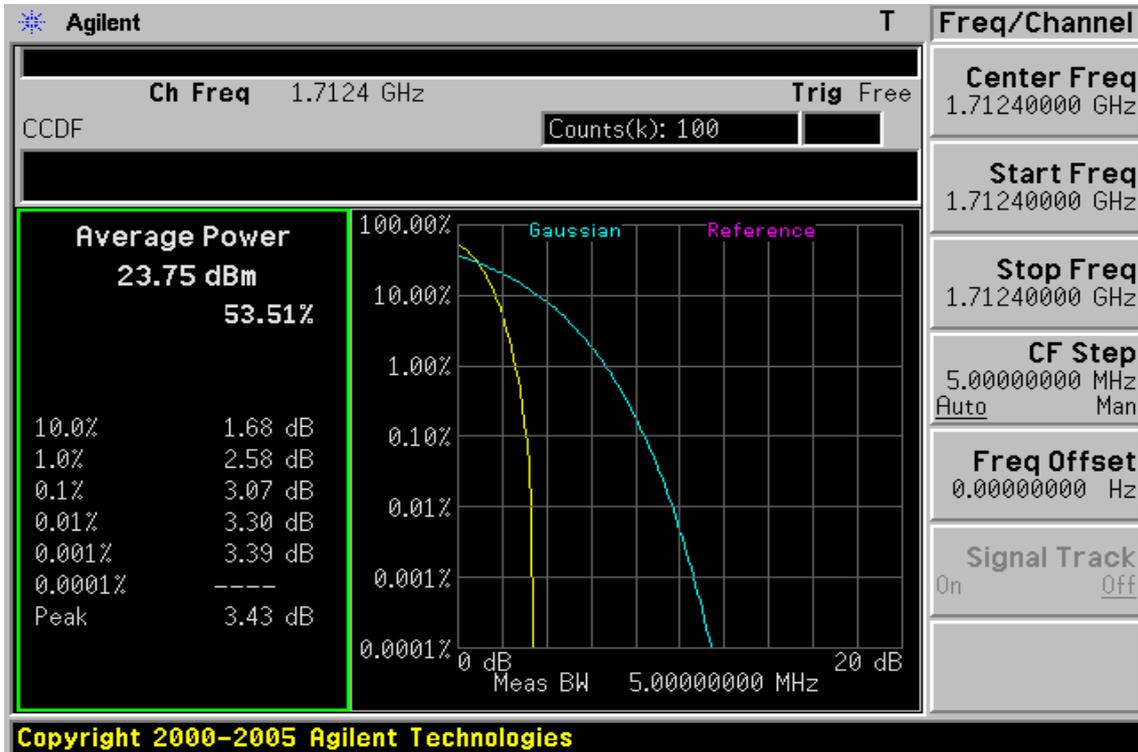


Figure 13-22: WCDMA Band IV Channel Low



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Figure 13-23: WCDMA Band IV Channel Mid

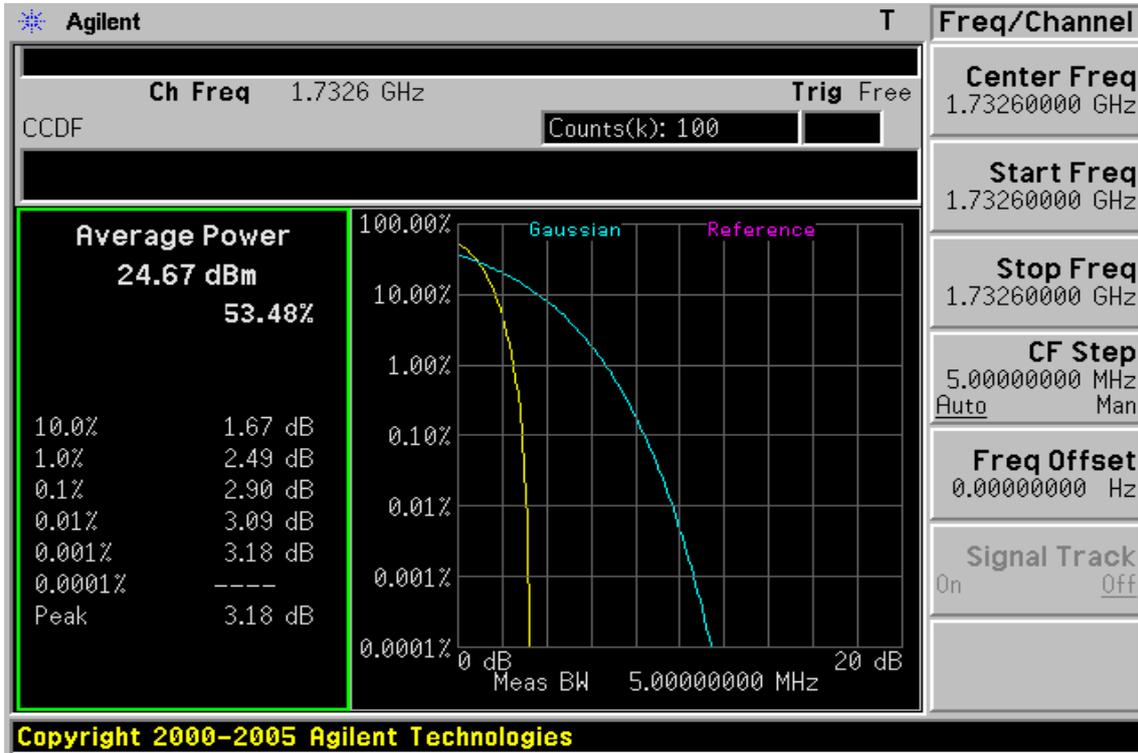
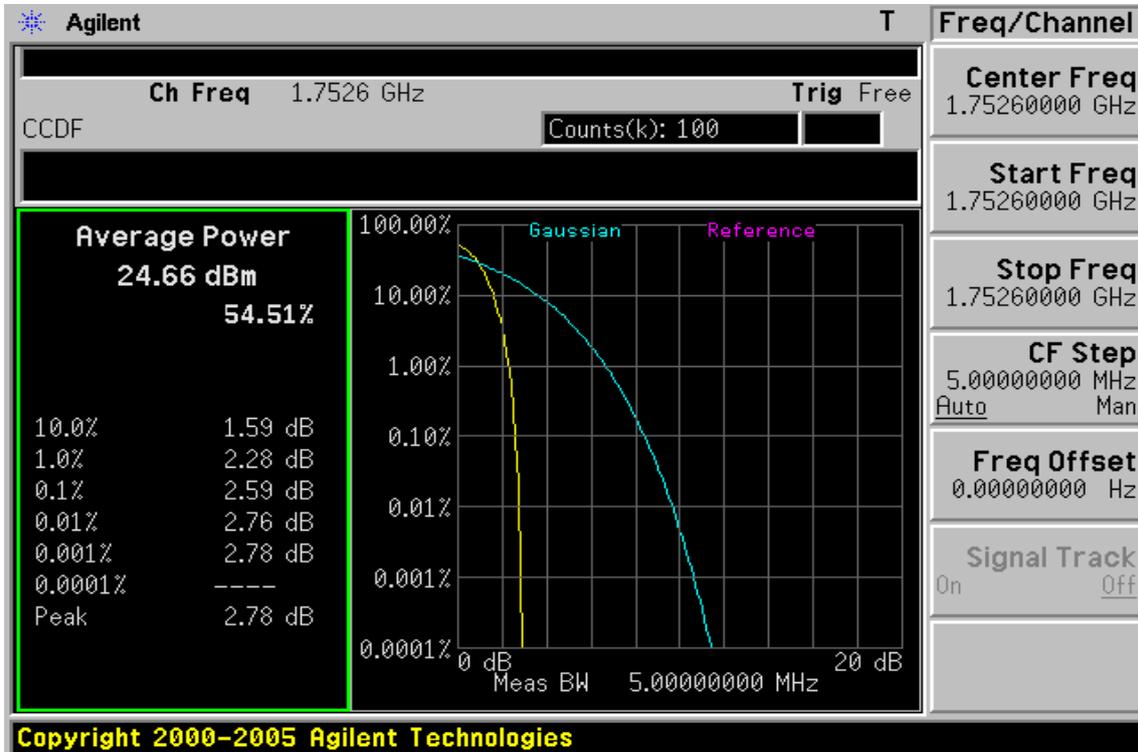


Figure 13-24: WCDMA Band IV Channel High



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Figure 13-25: WCDMA Band V Channel Low

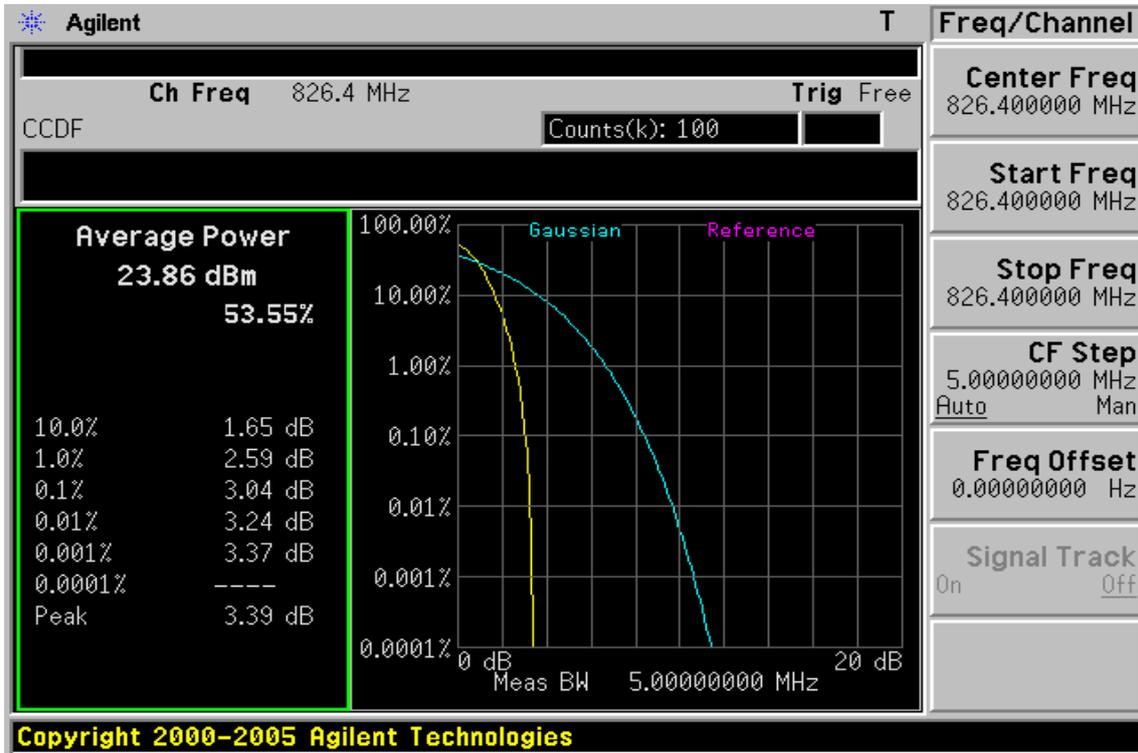
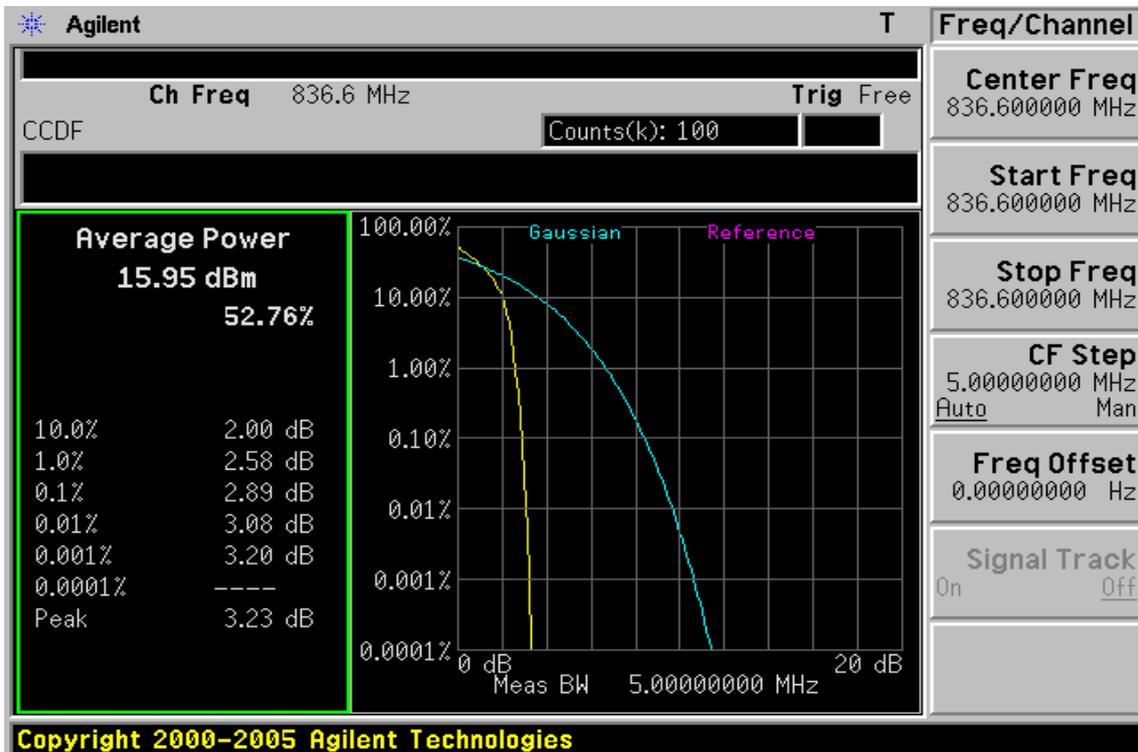


Figure 13-26: WCDMA Band V Channel Mid



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Figure 13-27: WCDMA Band V Channel High

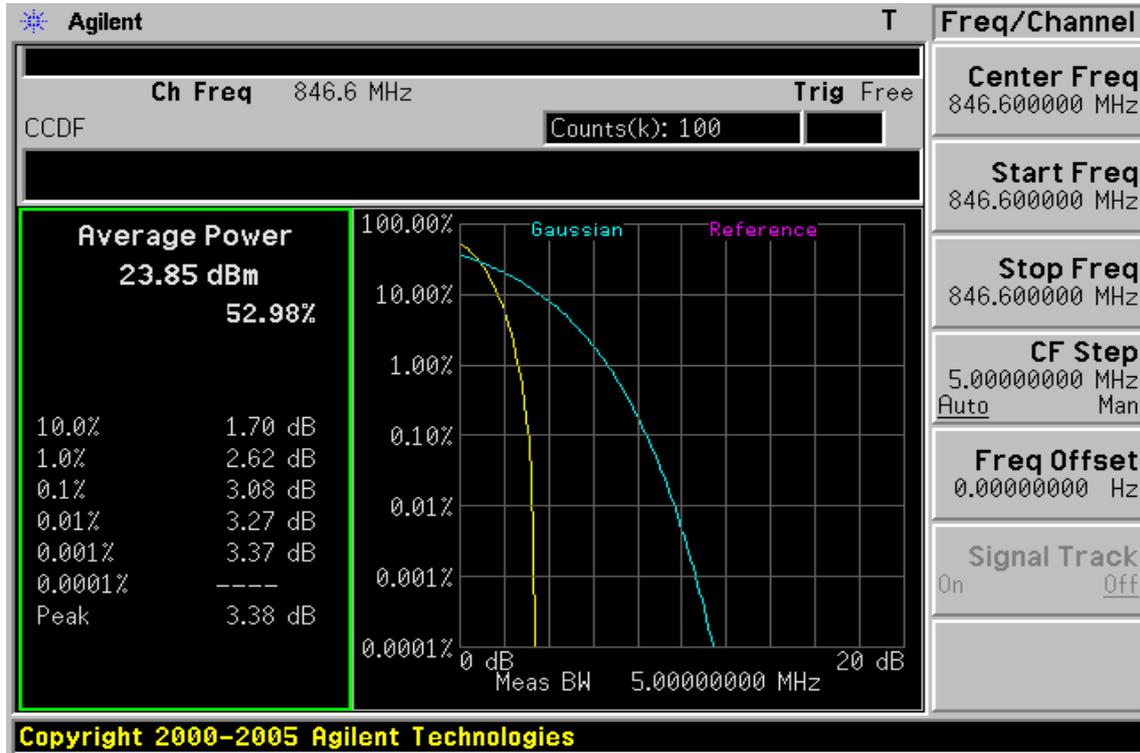
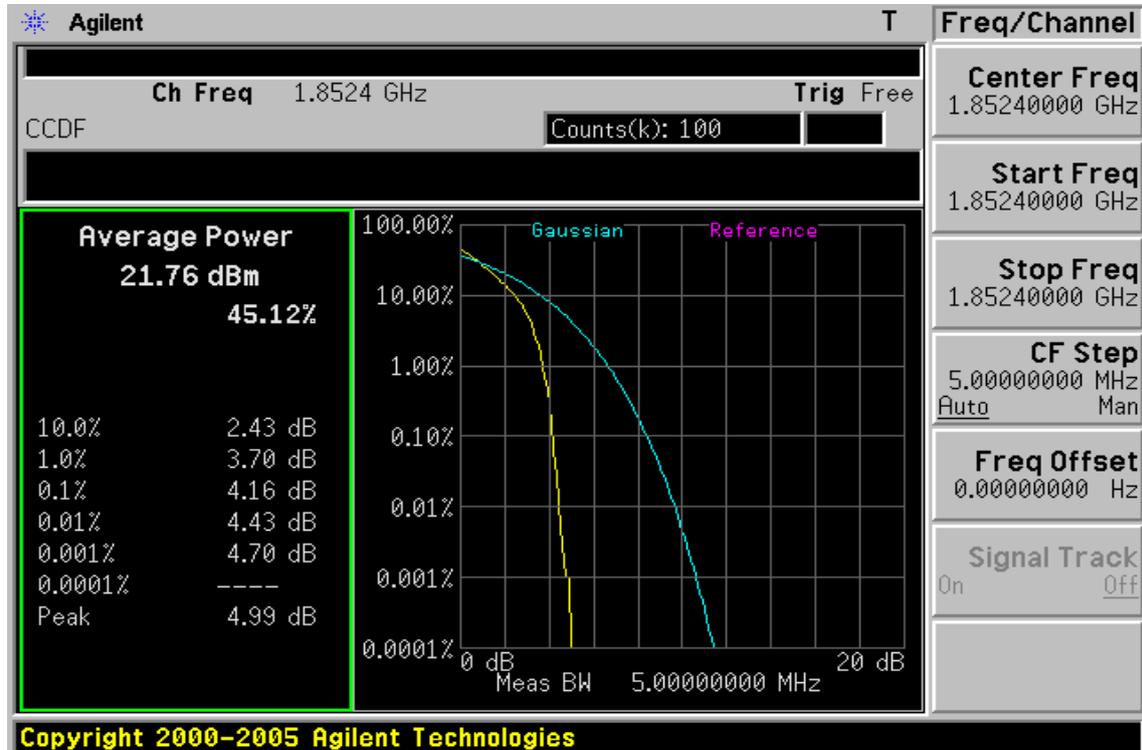


Figure 13-28: HSDPA Band II Channel Low



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Figure 13-29: HSDPA Band II Channel Mid

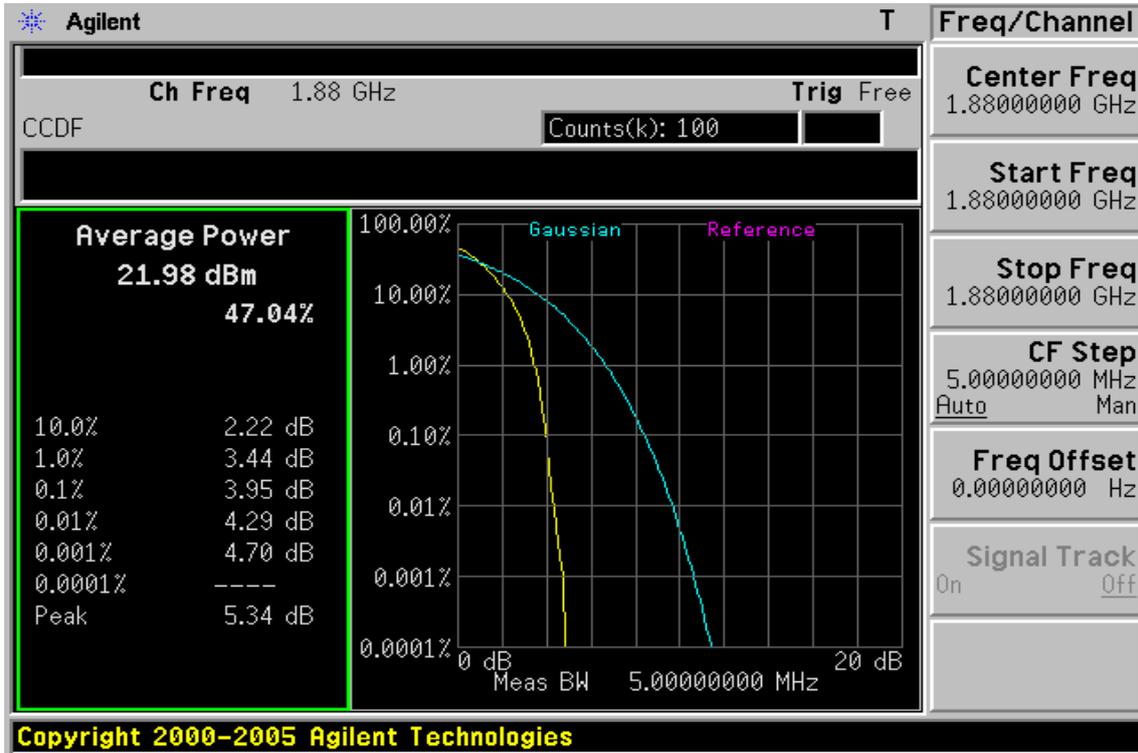
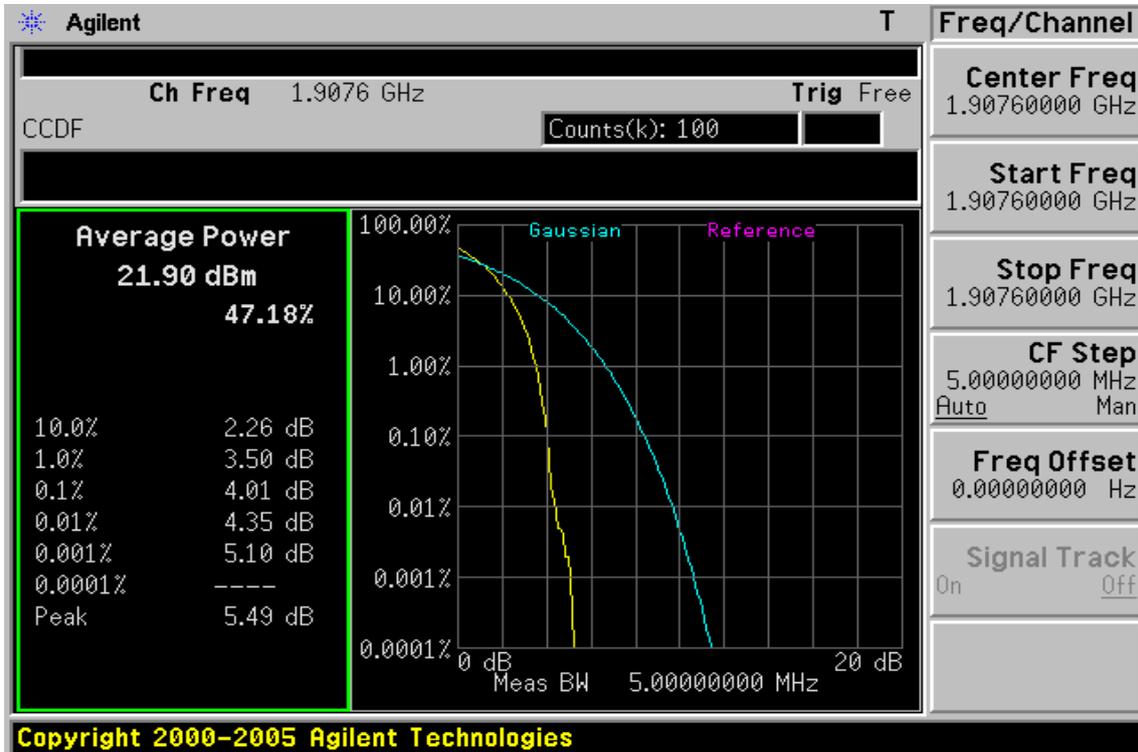


Figure 13-30: HSDPA Band II Channel High



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Figure 13-31: HSDPA Band IV Channel Low

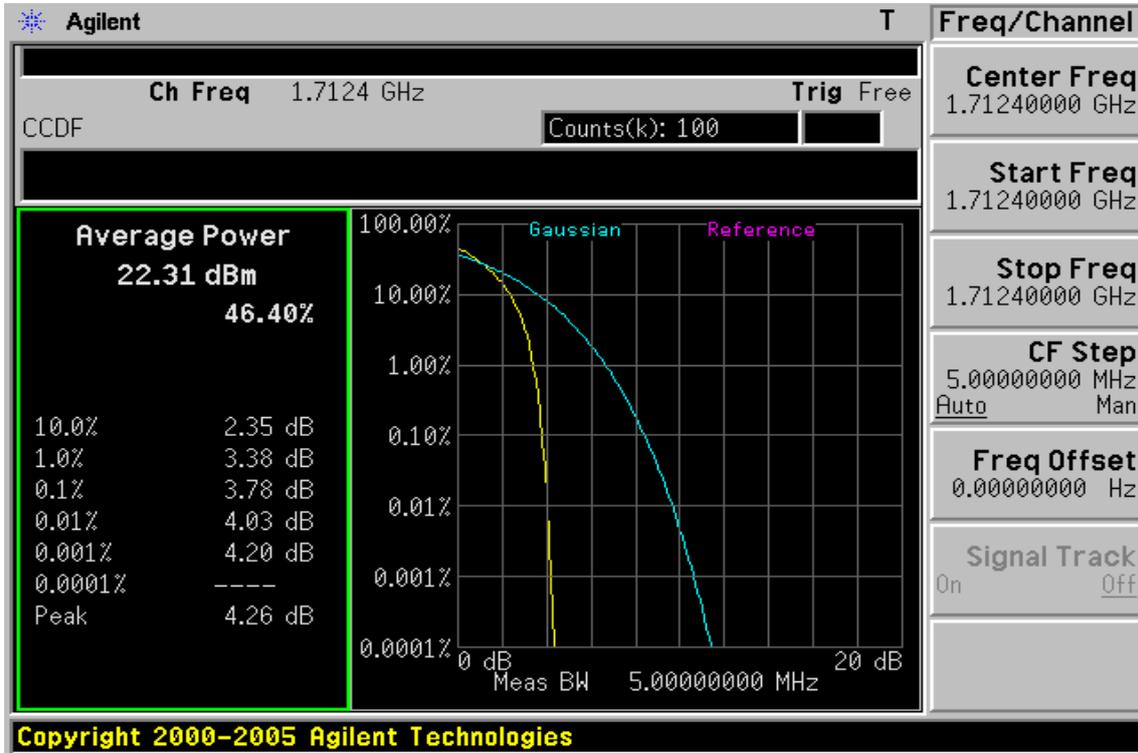
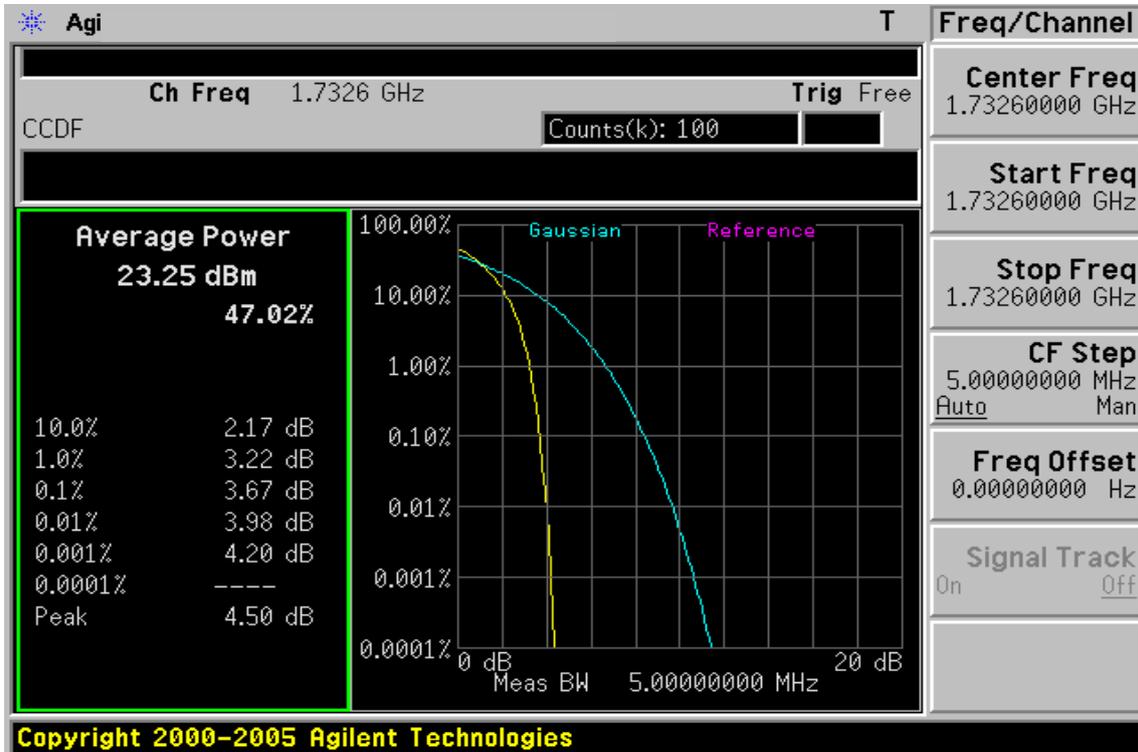


Figure 13-32: HSDPA Band IV Channel Mid



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Figure 13-33: HSDPA Band IV Channel High

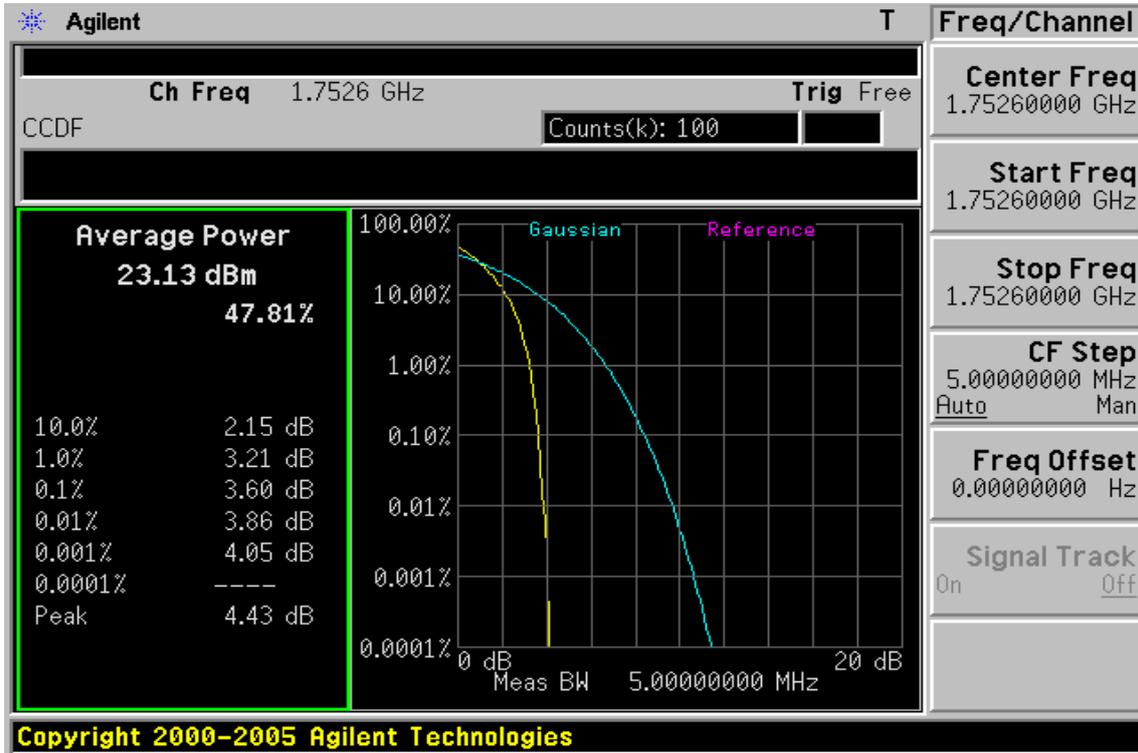
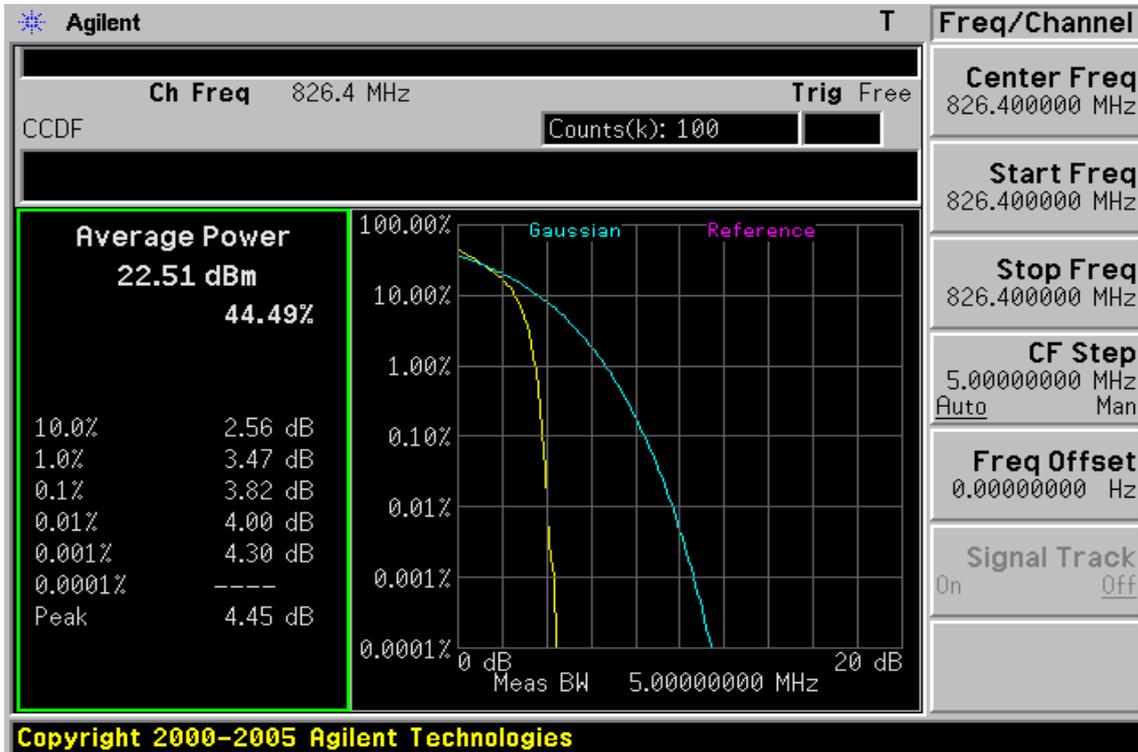


Figure 13-34: HSDPA Band V Channel Low



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Figure 13-35: HSDPA Band V Channel Mid

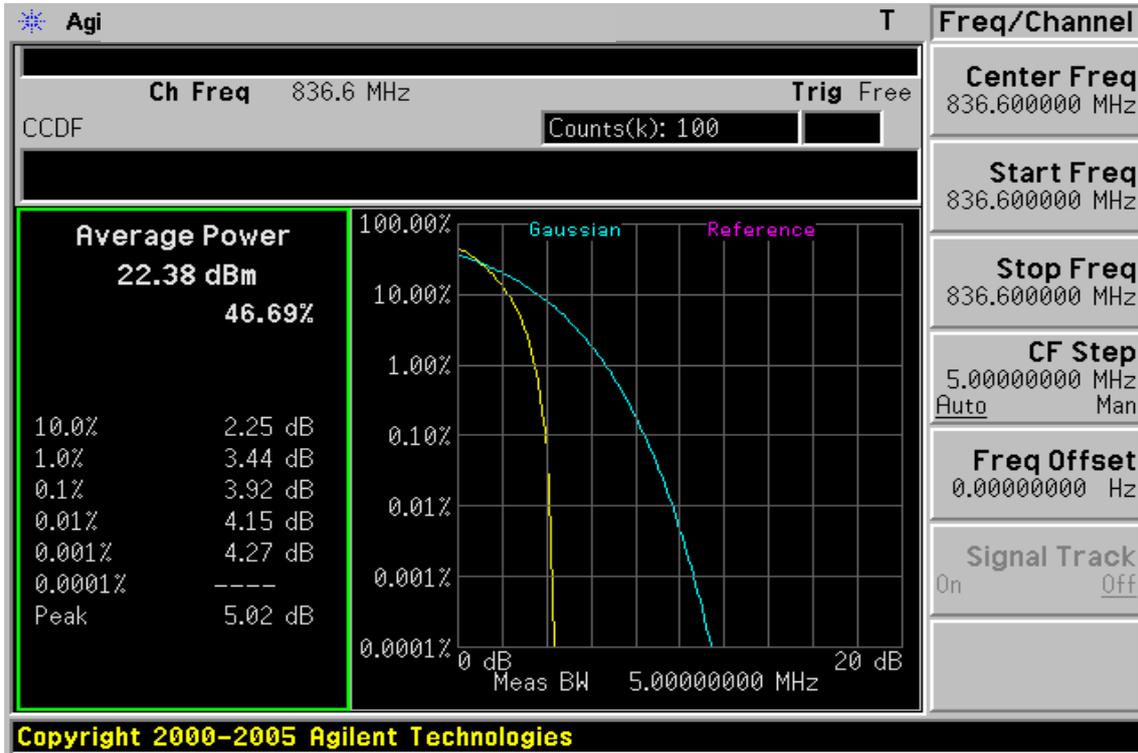
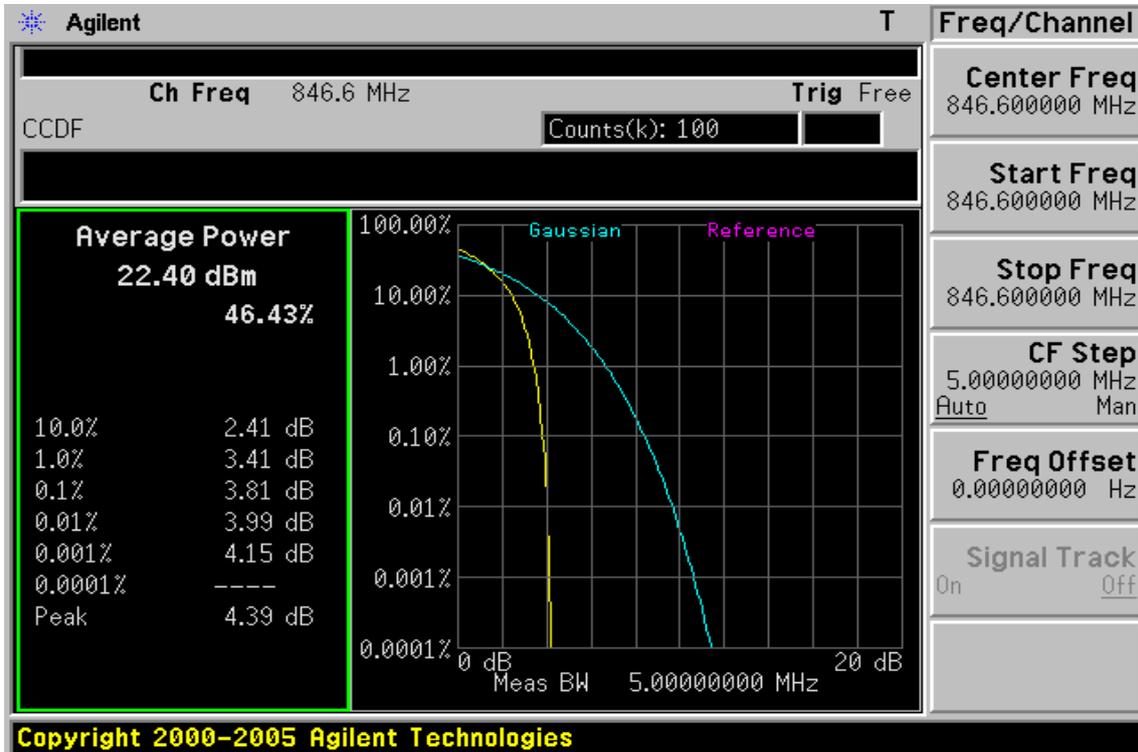


Figure 13-36: HSDPA Band V Channel High



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Figure 13-37: HSUPA Band II Channel Low

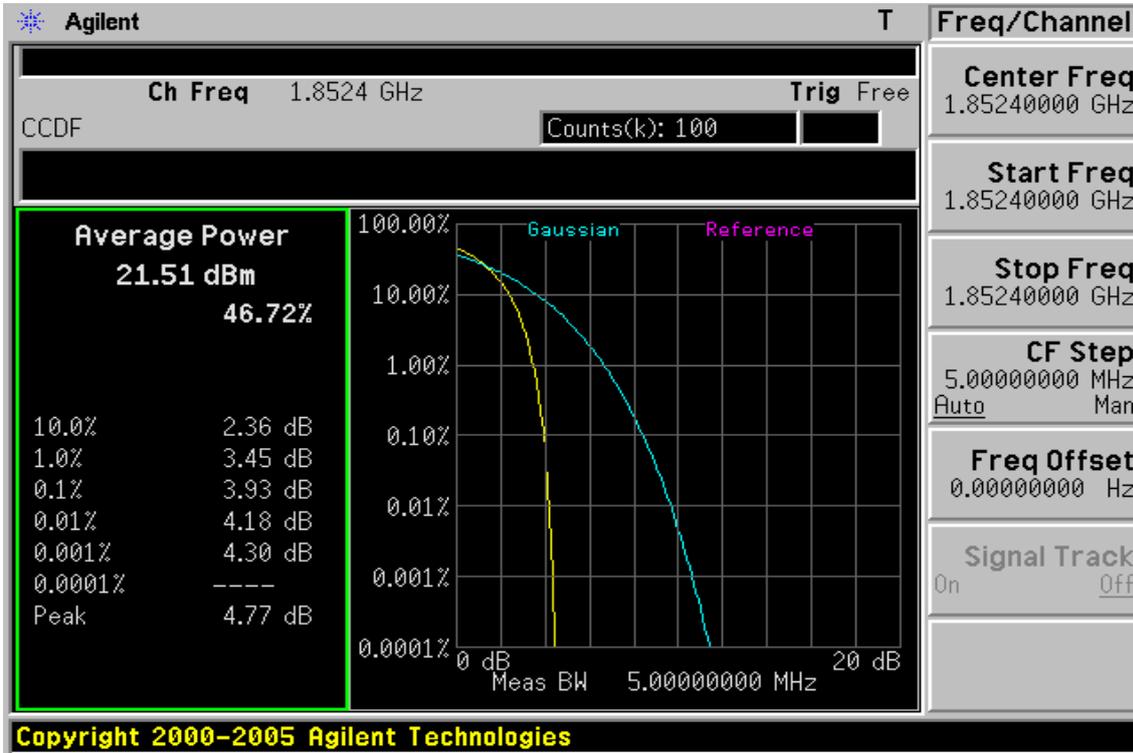


Figure 13-38: HSUPA Band II Channel Mid



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Figure 13-39: HSUPA Band II Channel High

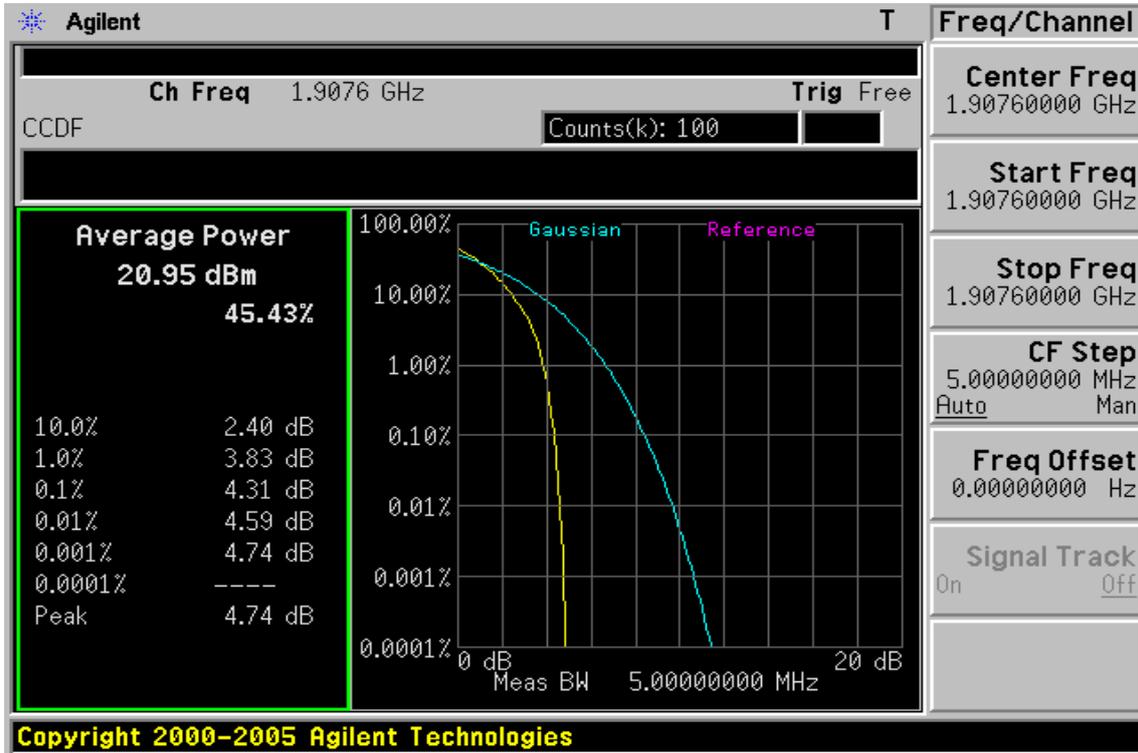
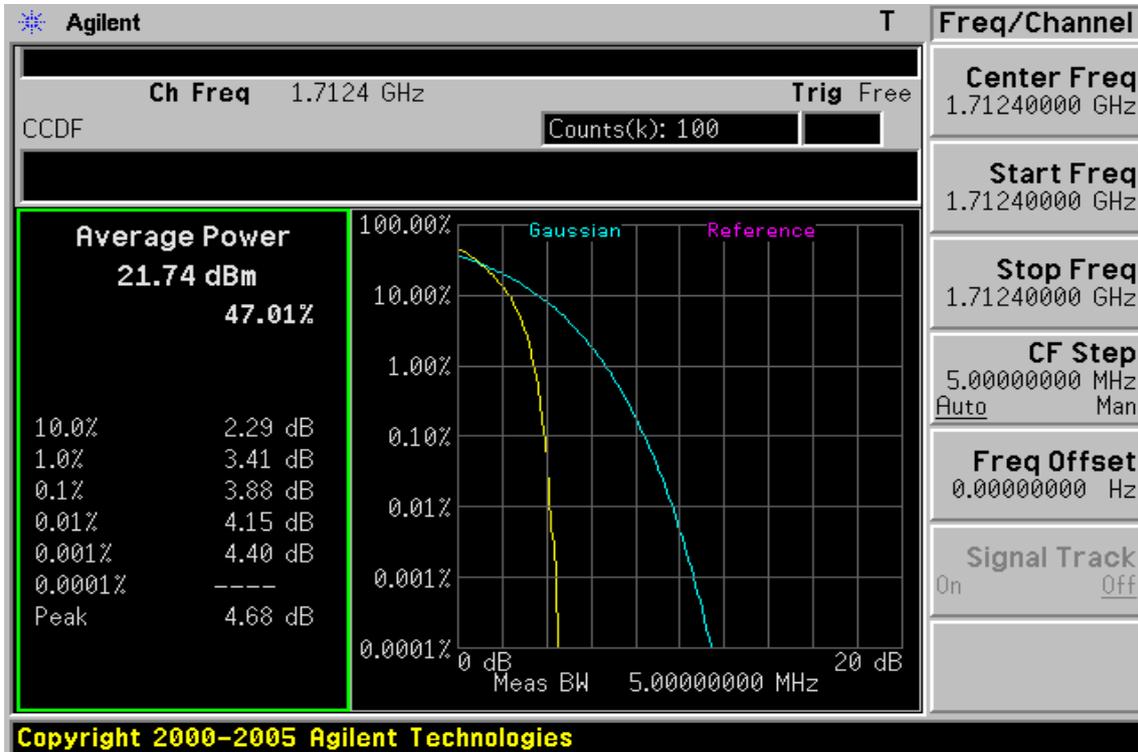


Figure 13-40: HSUPA Band IV Channel Low



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Figure 13-41: HSUPA Band IV Channel Mid

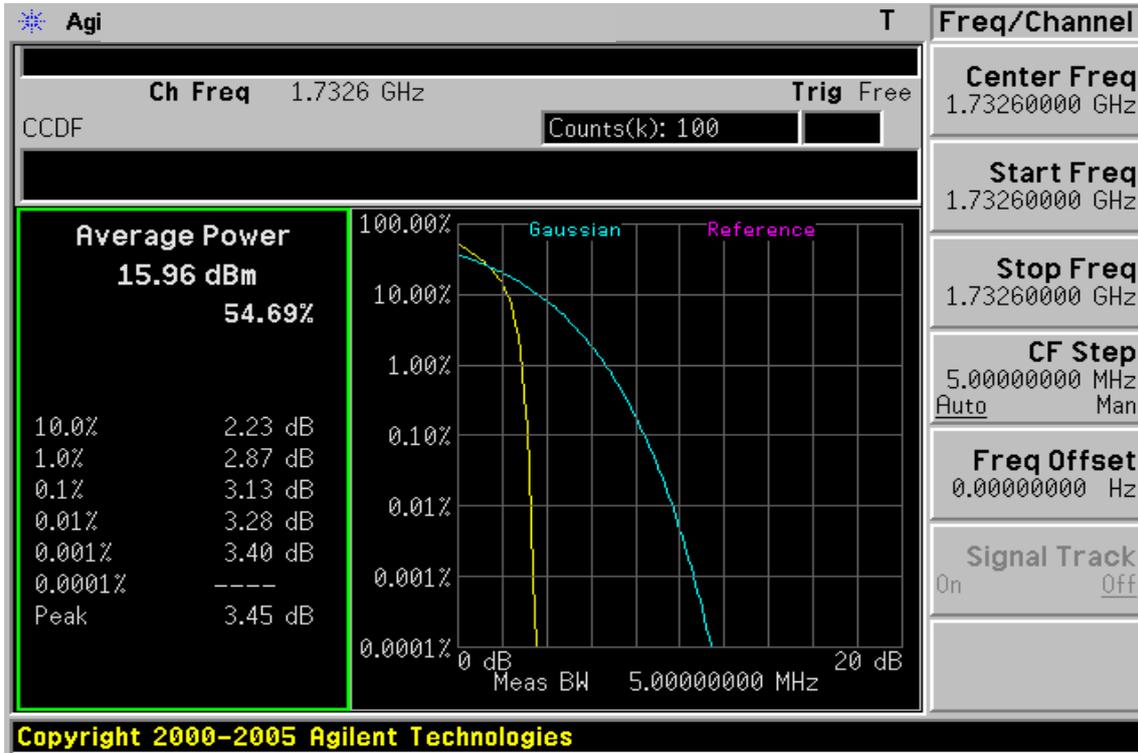
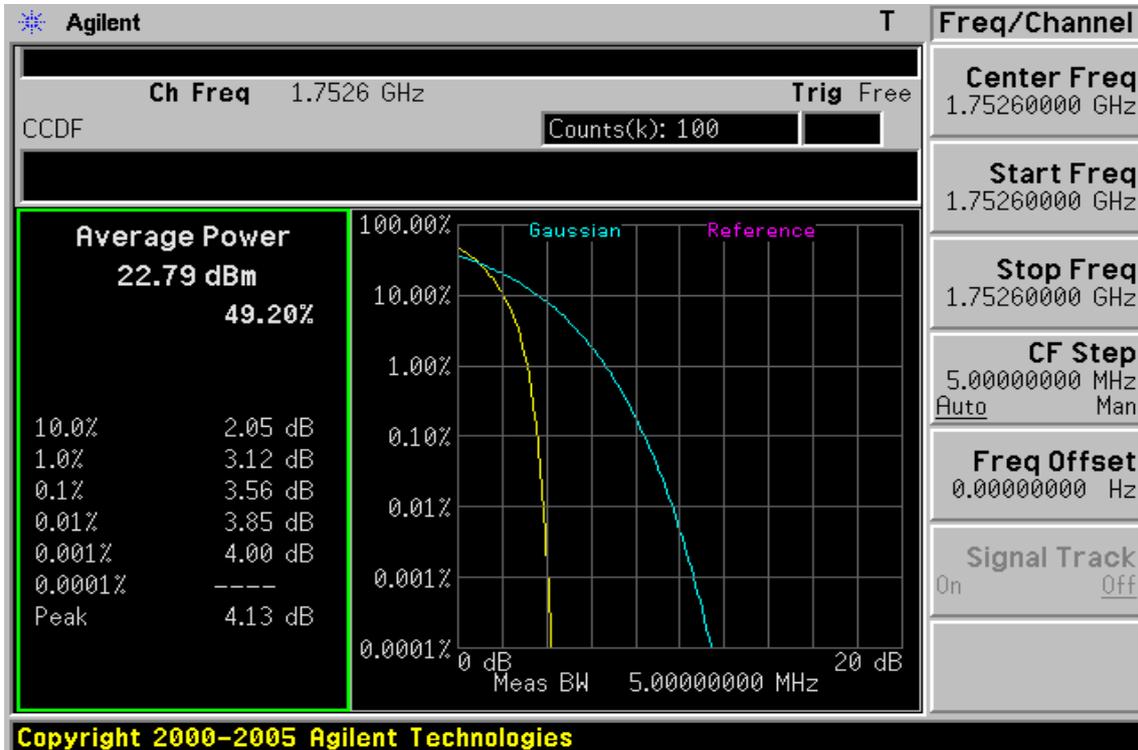


Figure 13-42: HSUPA Band IV Channel High



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Figure 13-43: HSUPA Band V Channel Low

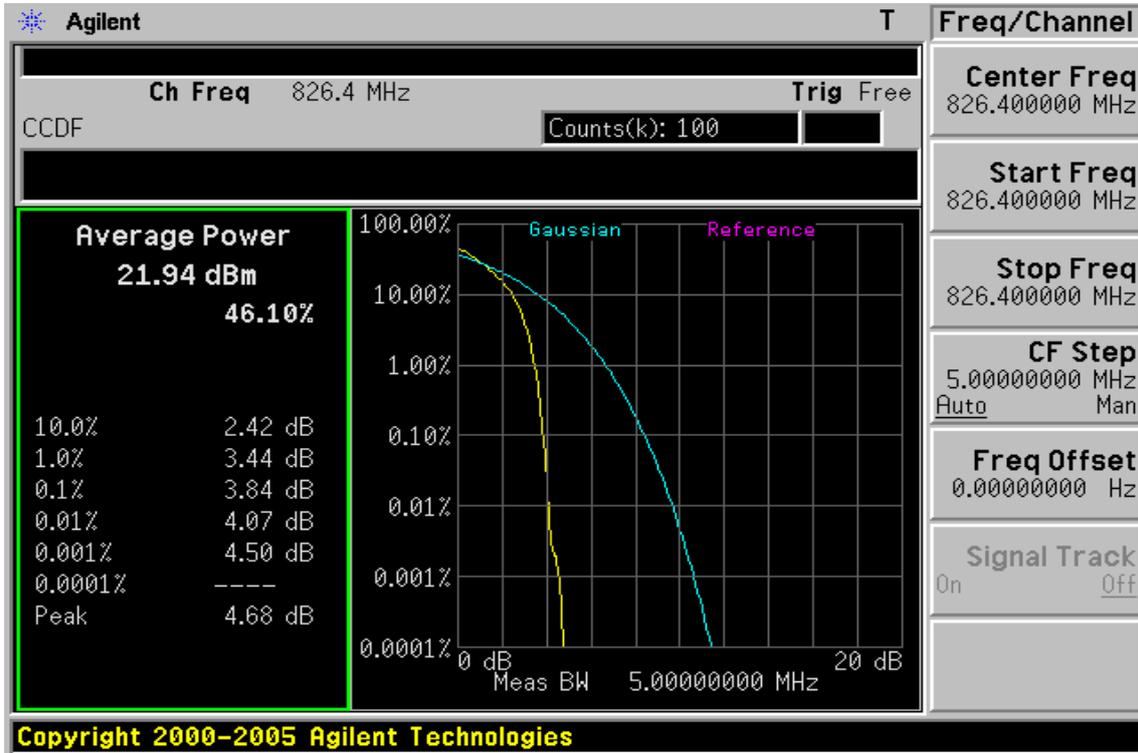
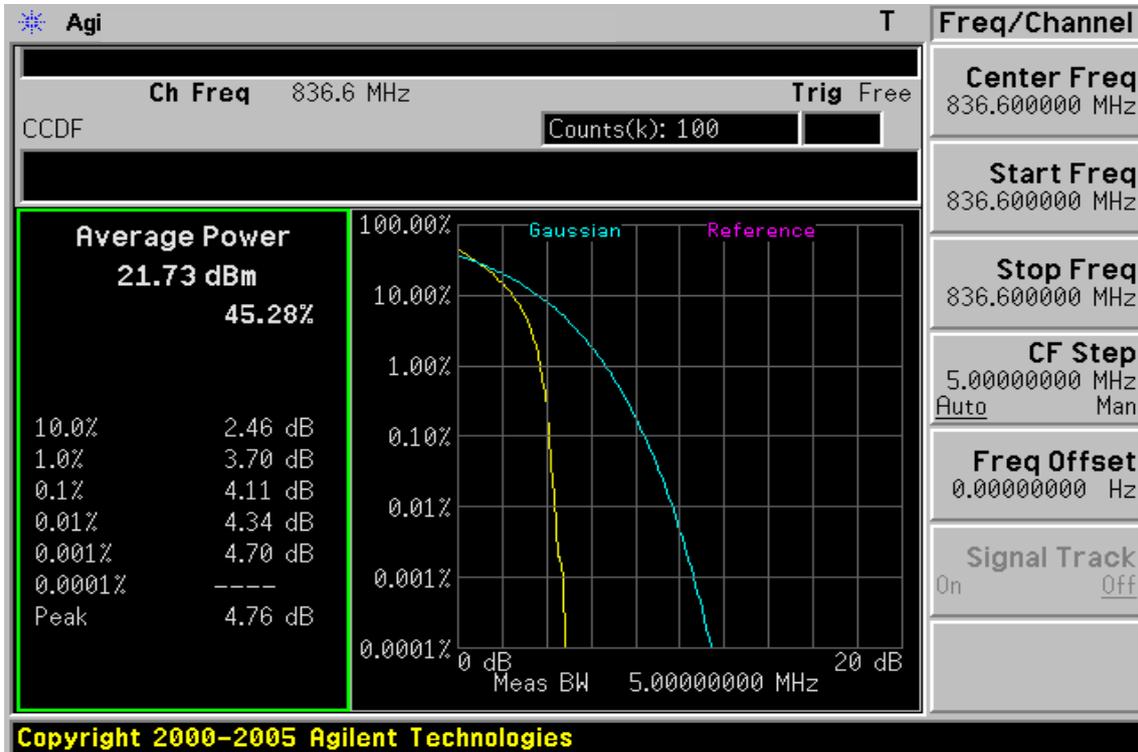


Figure 13-44: HSUPA Band V Channel Mid



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Figure 13-45: HSUPA Band V Channel High

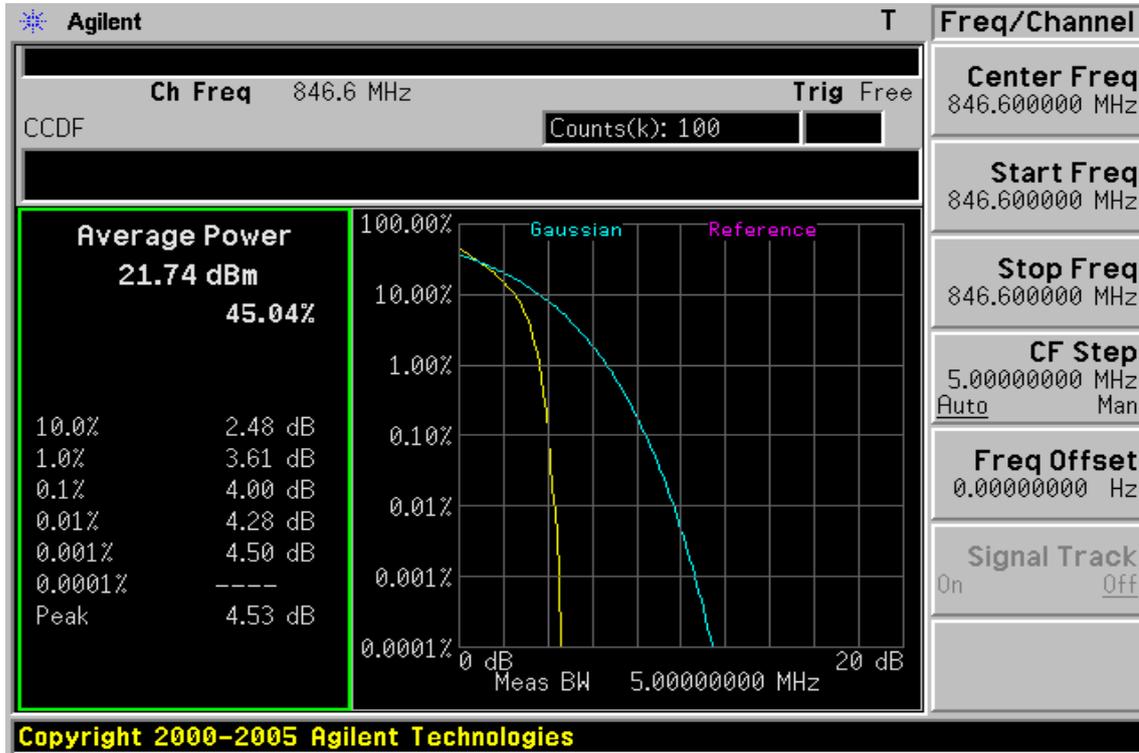
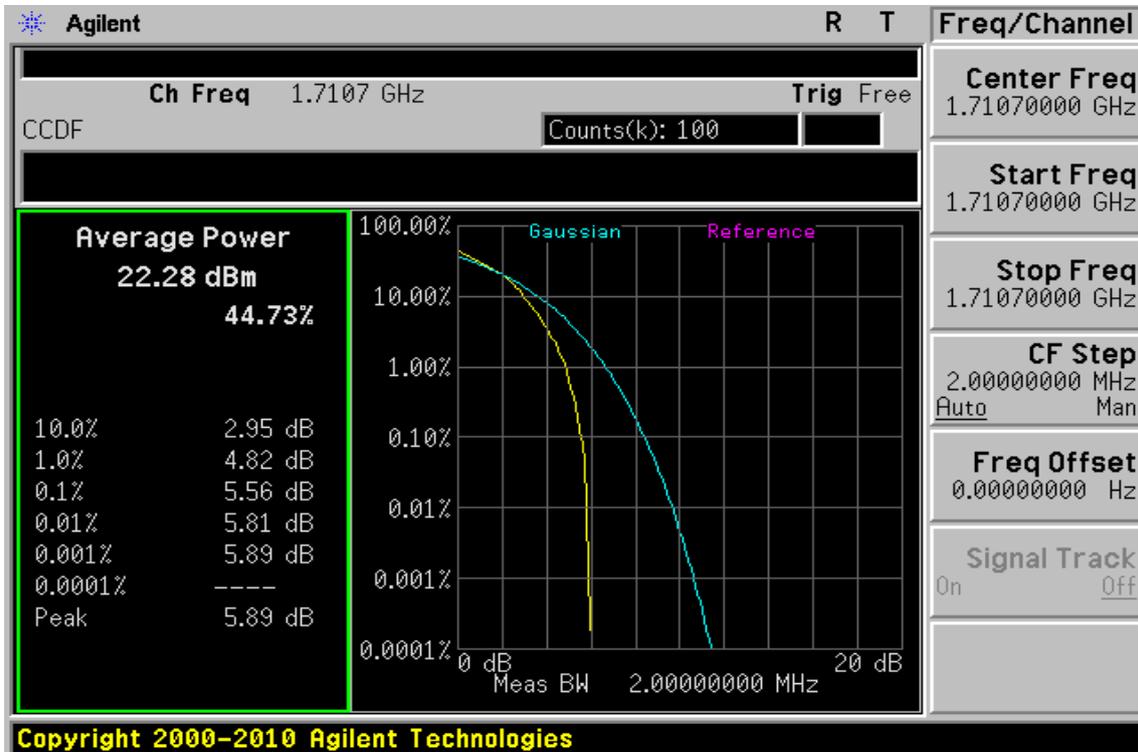


Figure 13-46: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low



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Figure 13-47: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid

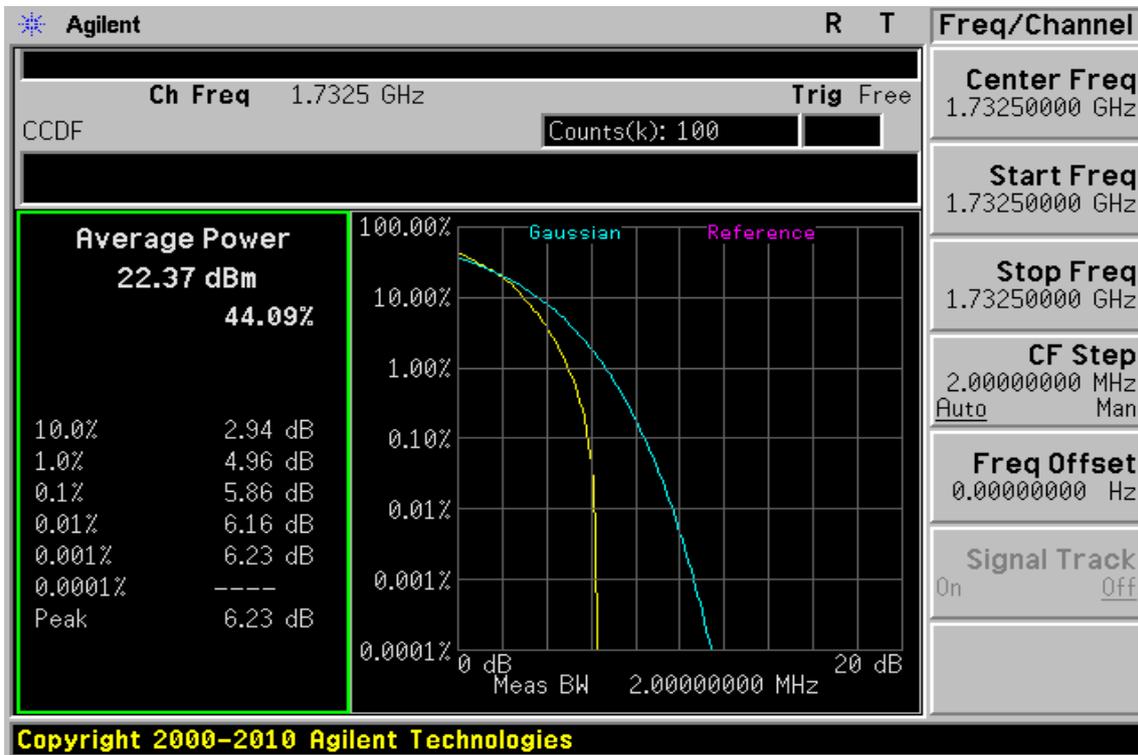
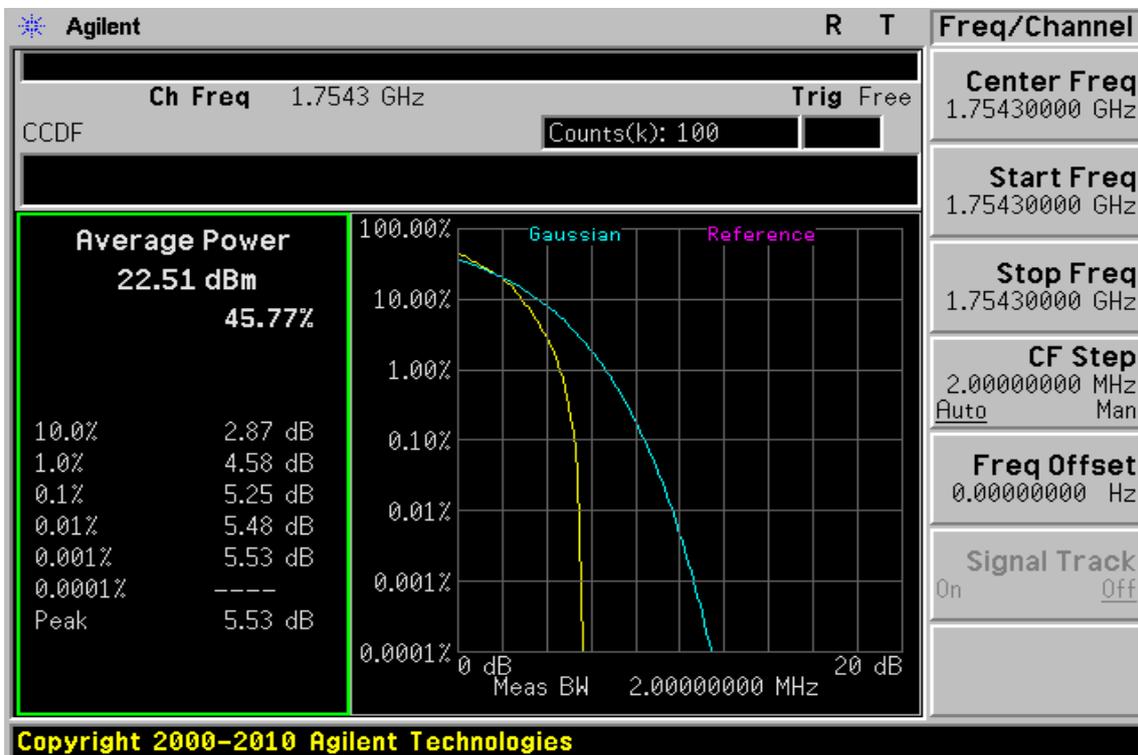


Figure 13-48: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High



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Figure 13-49: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low

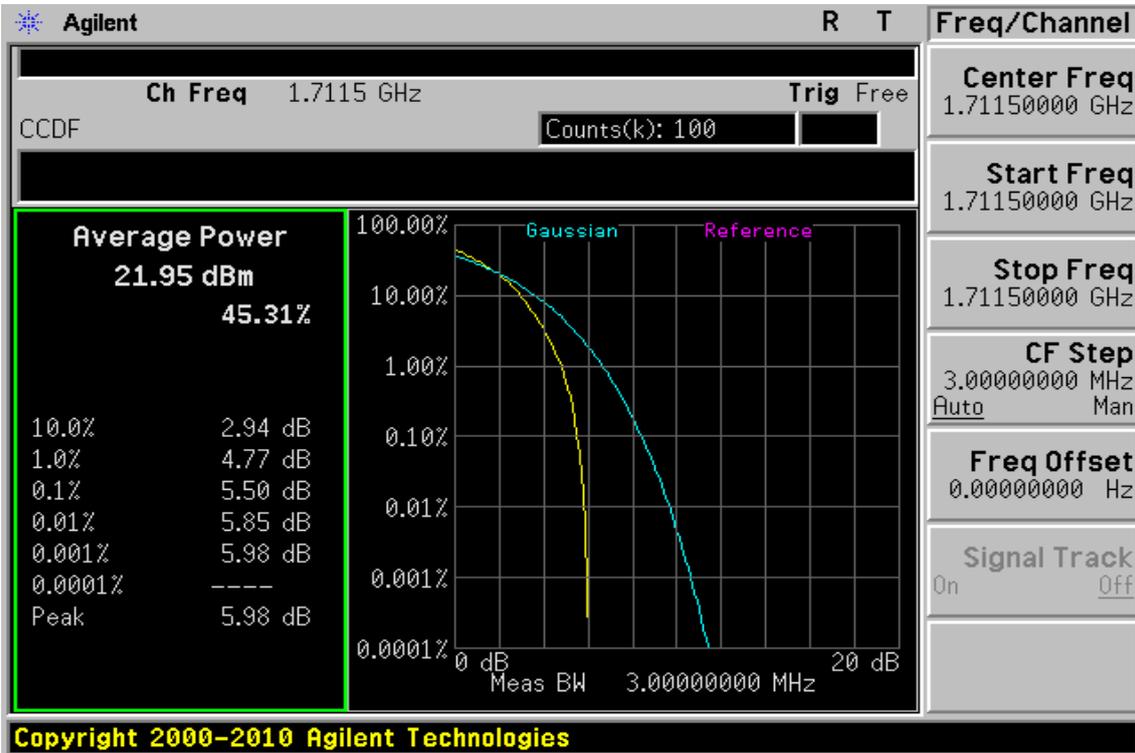
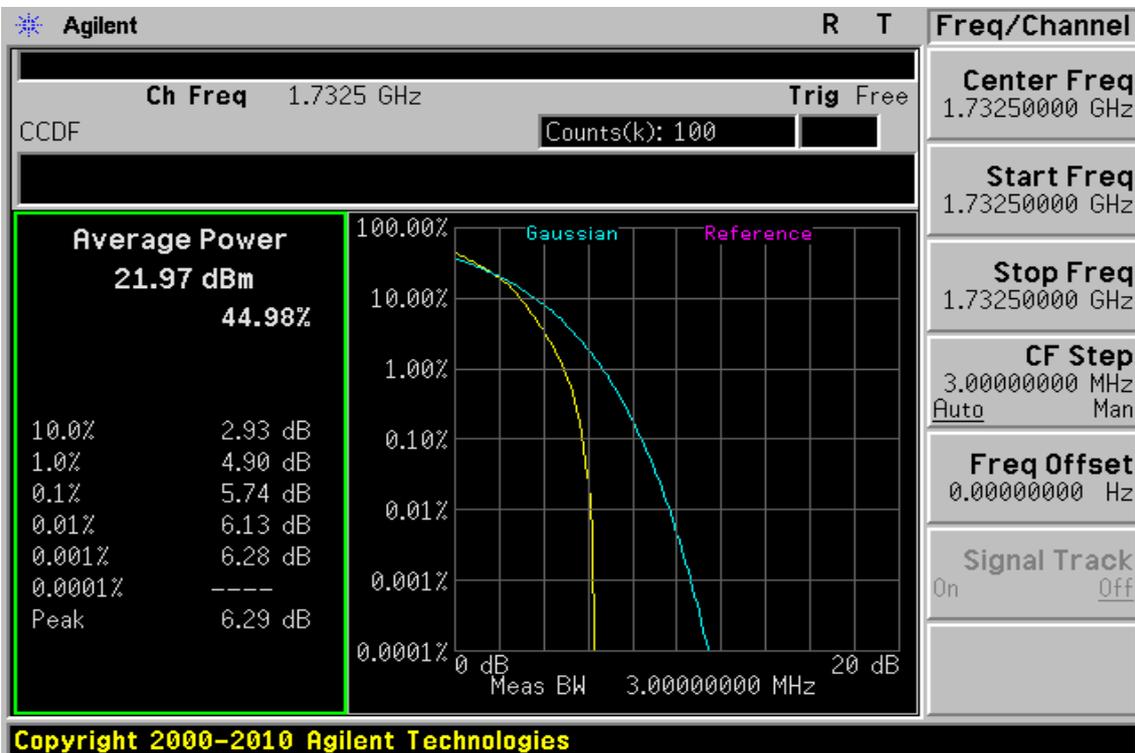


Figure 13-50: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid



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Figure 13-51: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High

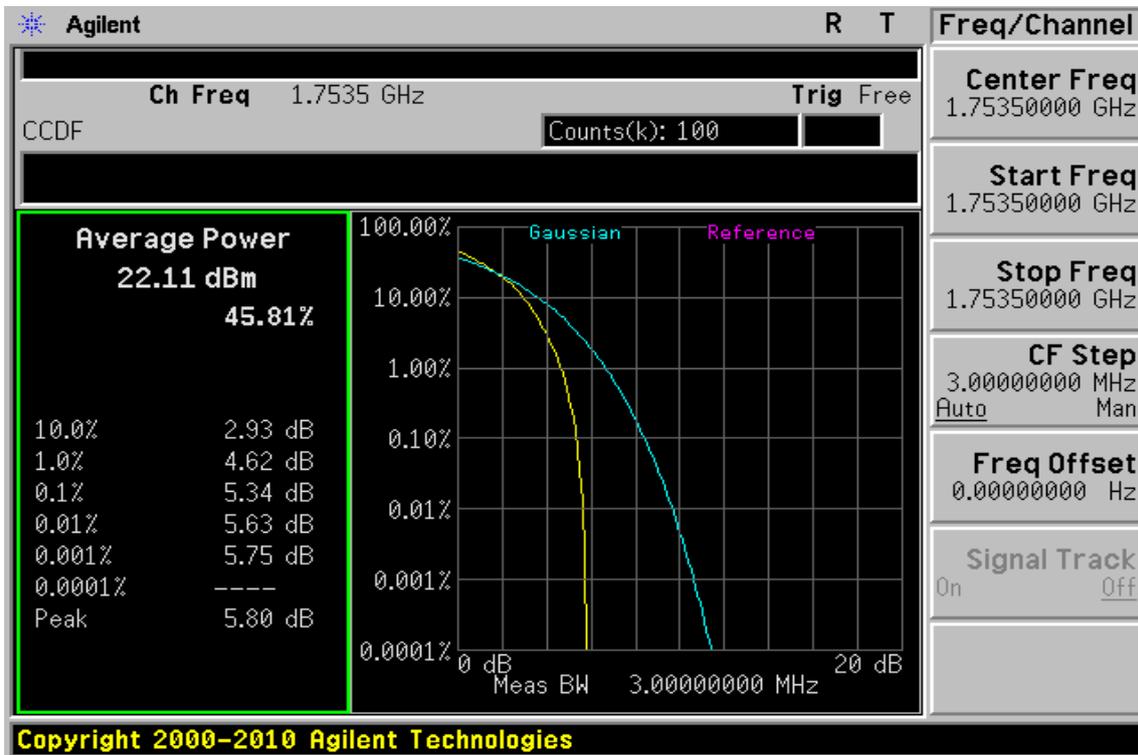
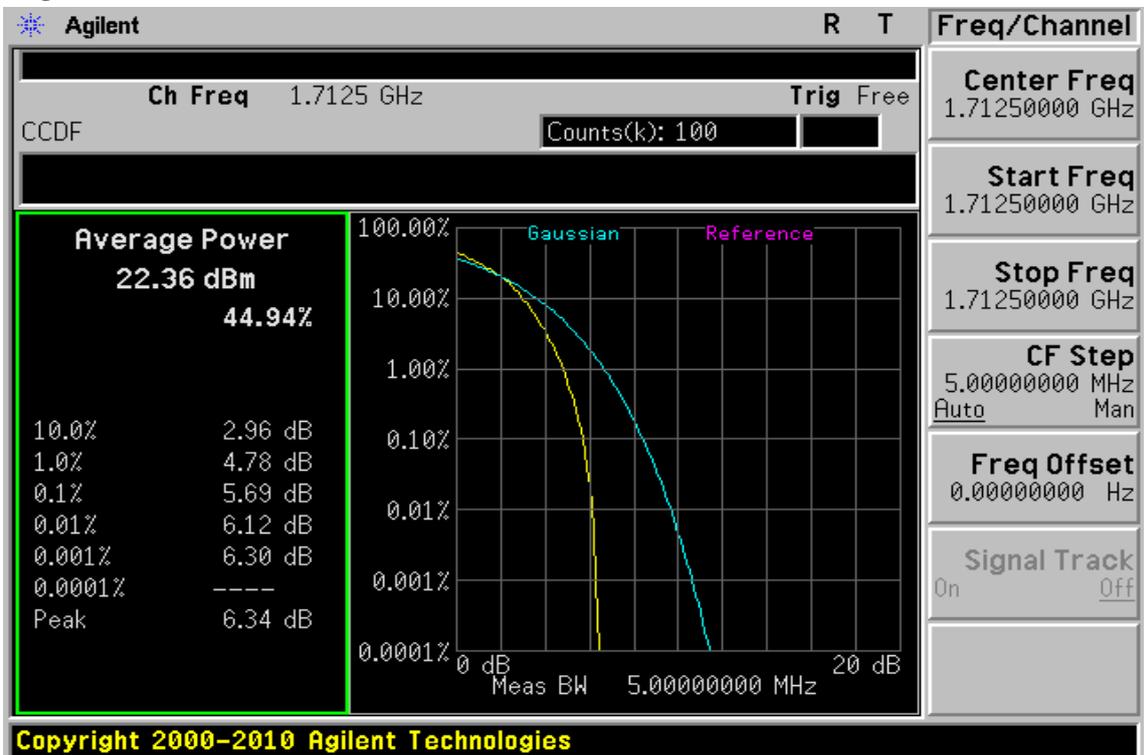


Figure 13-52: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low



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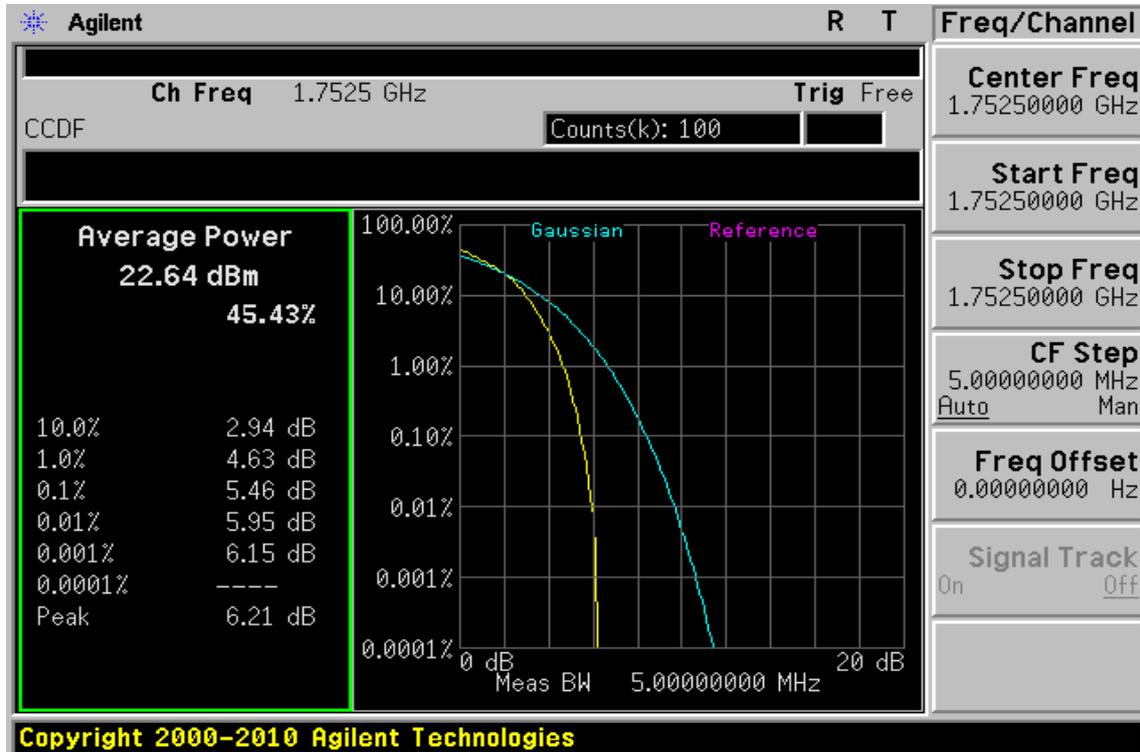
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Figure 13-53: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



Figure 13-54: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High



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Figure 13-55: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low

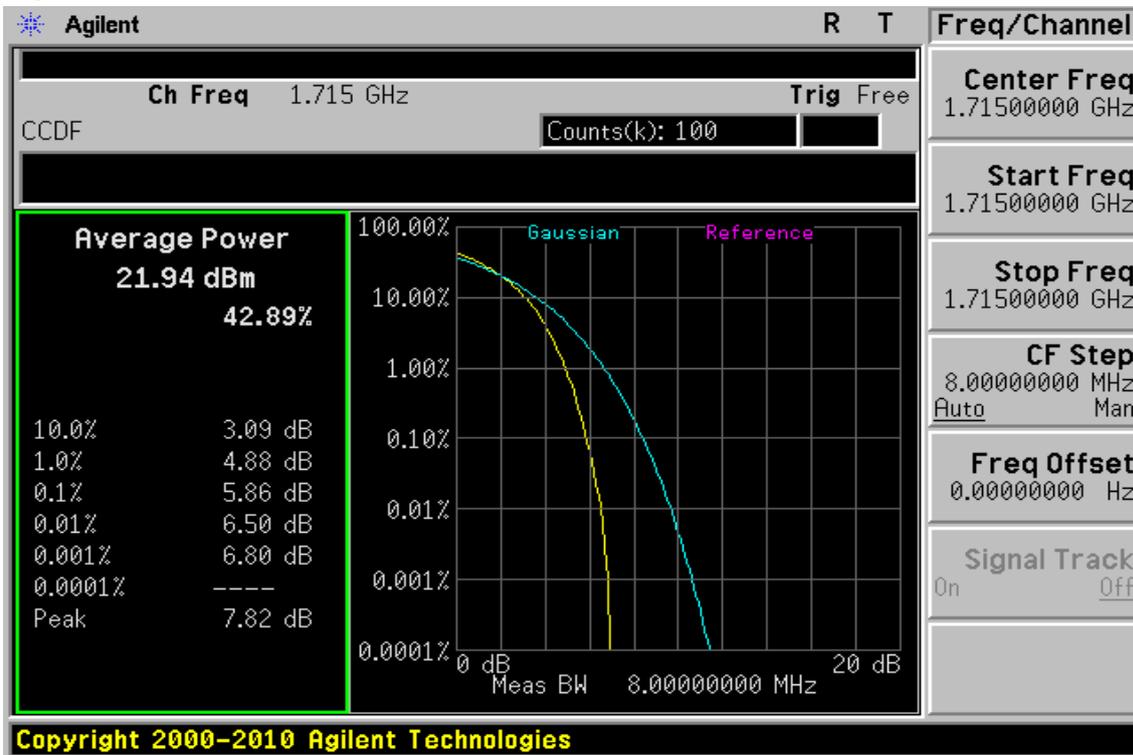
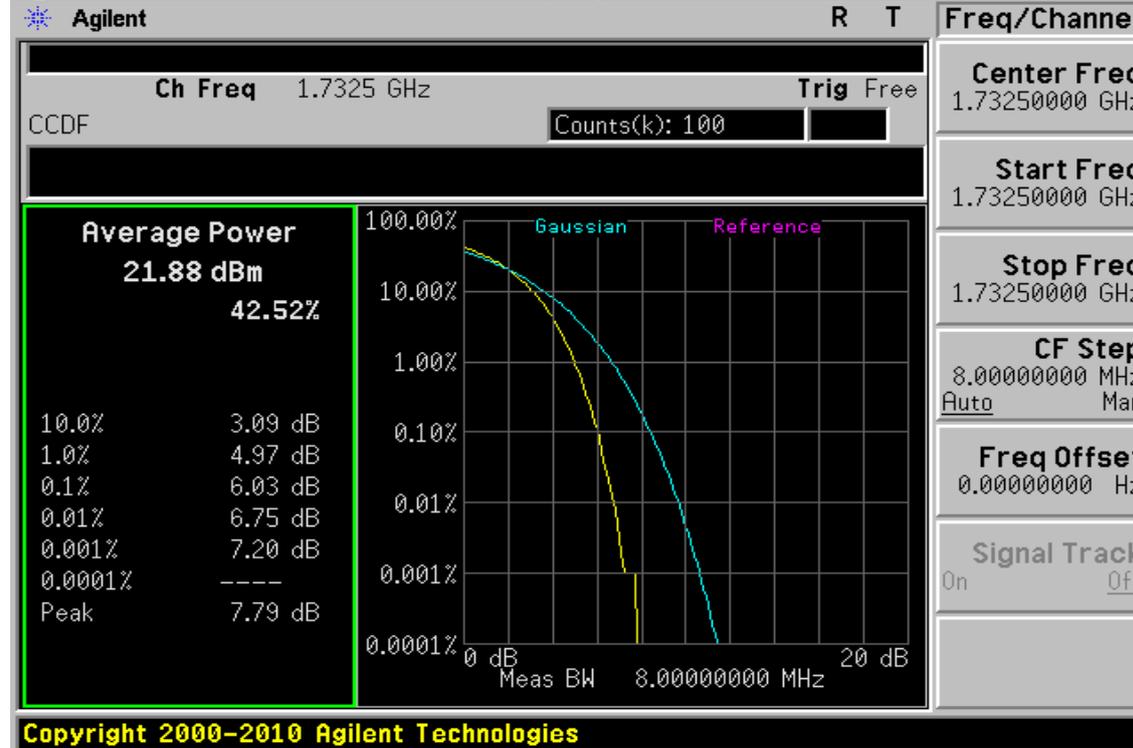


Figure 13-56: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid



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Figure 13-57: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High

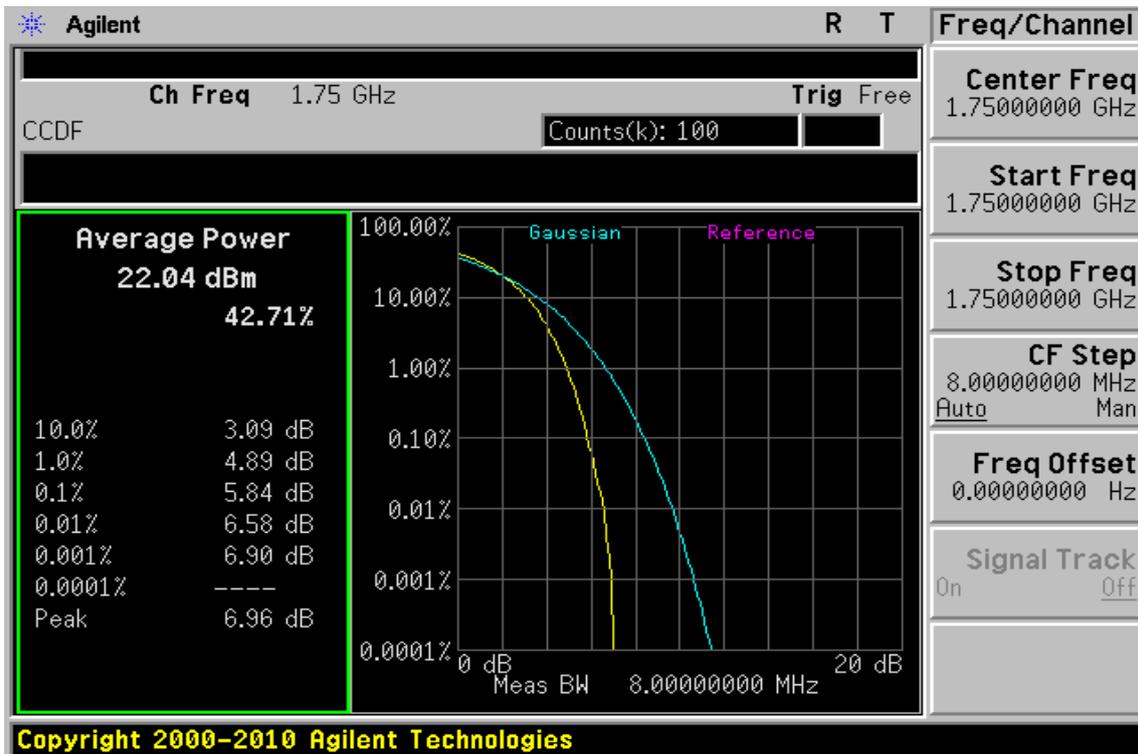
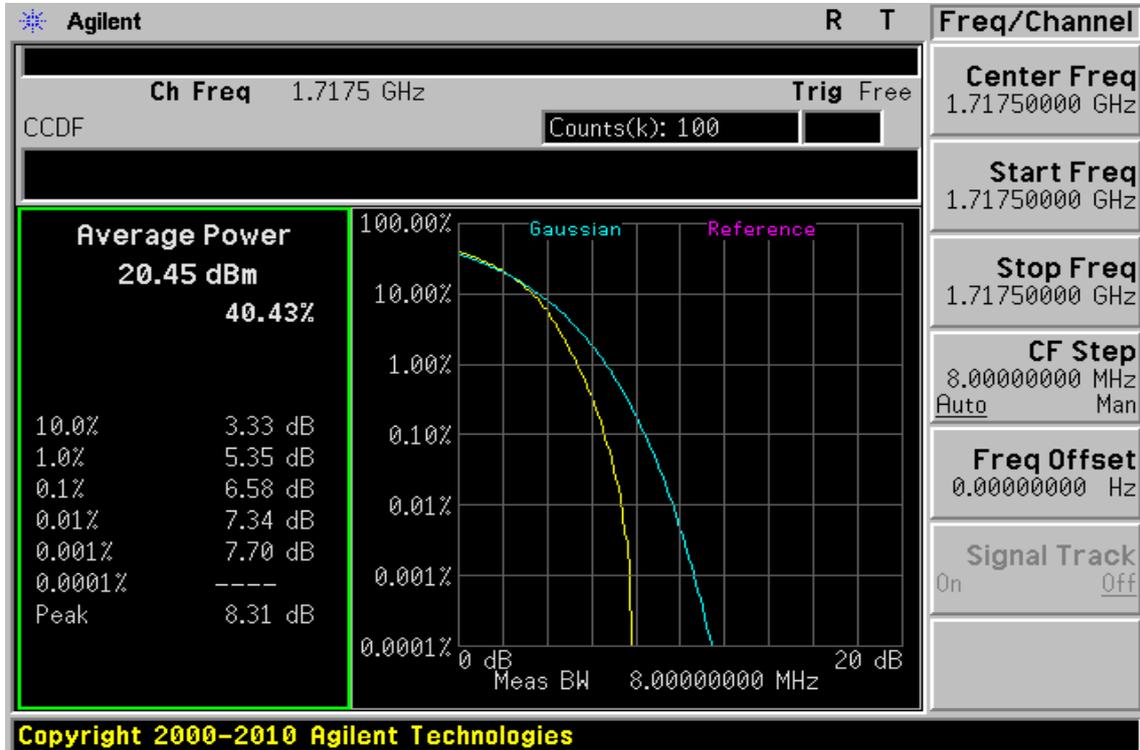


Figure 13-58: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Low



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Figure 13-59: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel Mid

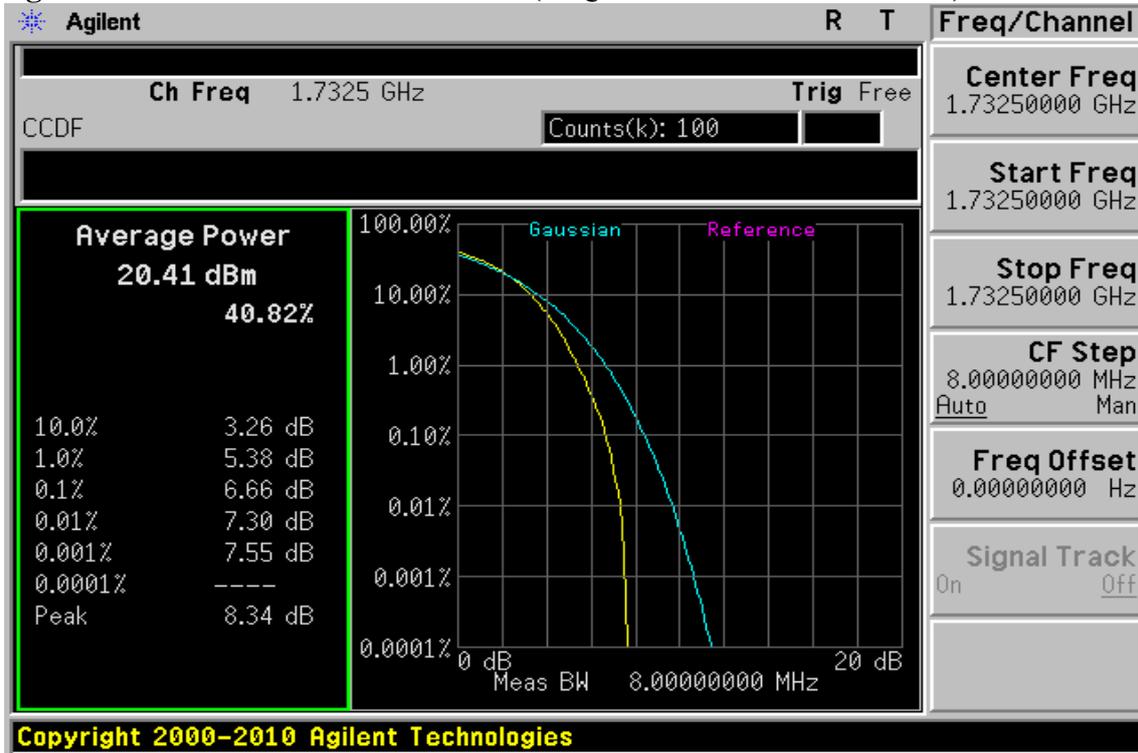
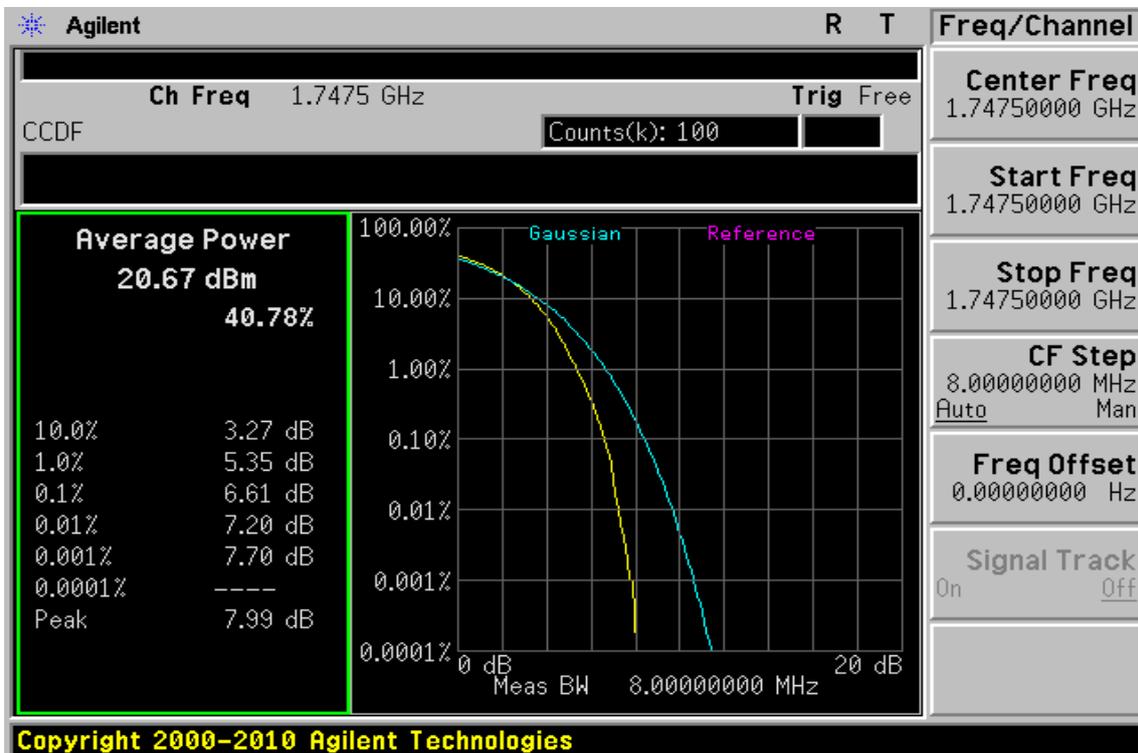


Figure 13-60: 15MHz BW LTE-Band 4(16QAM Number: 75 Offset: 0) Channel High



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Figure 13-61: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Low

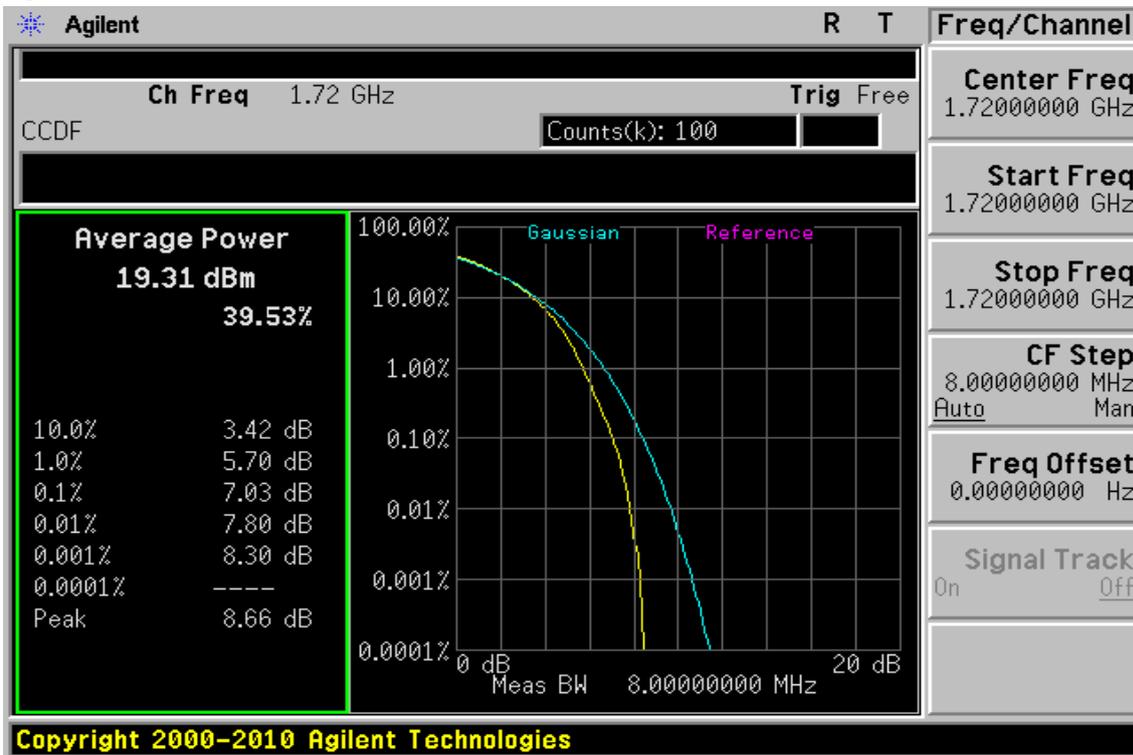
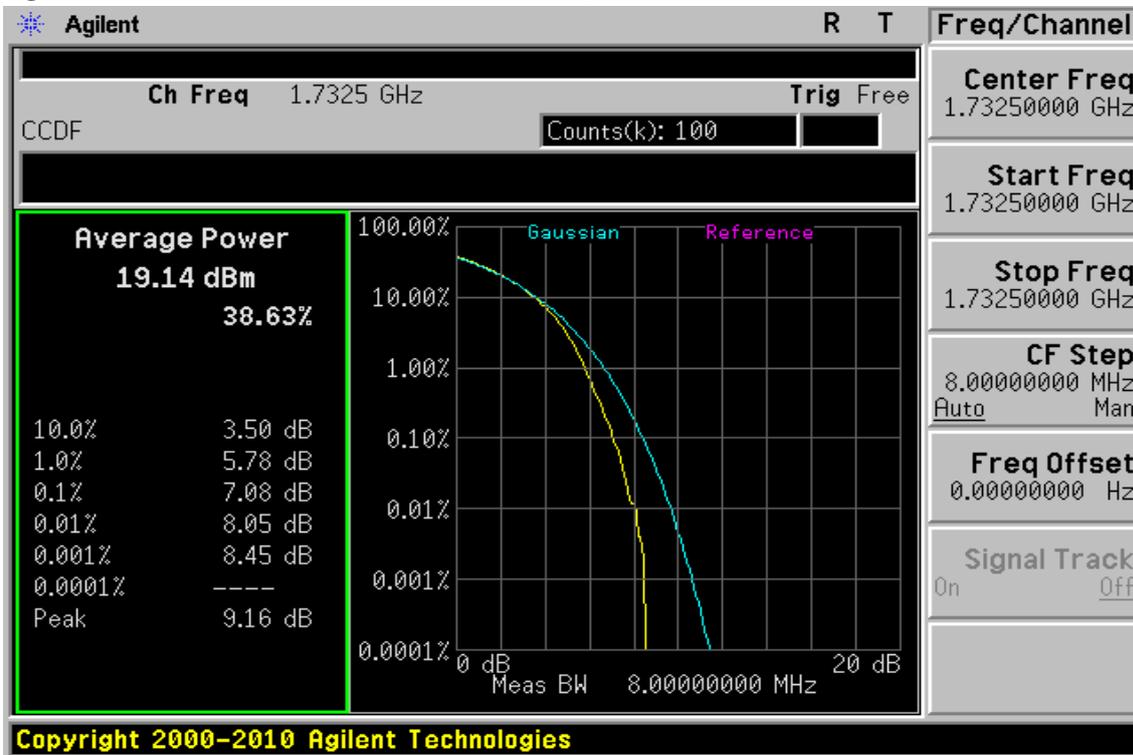


Figure 13-62: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel Mid



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Figure 13-63: 20MHz BW LTE-Band 4(16QAM Number: 100 Offset: 0) Channel High

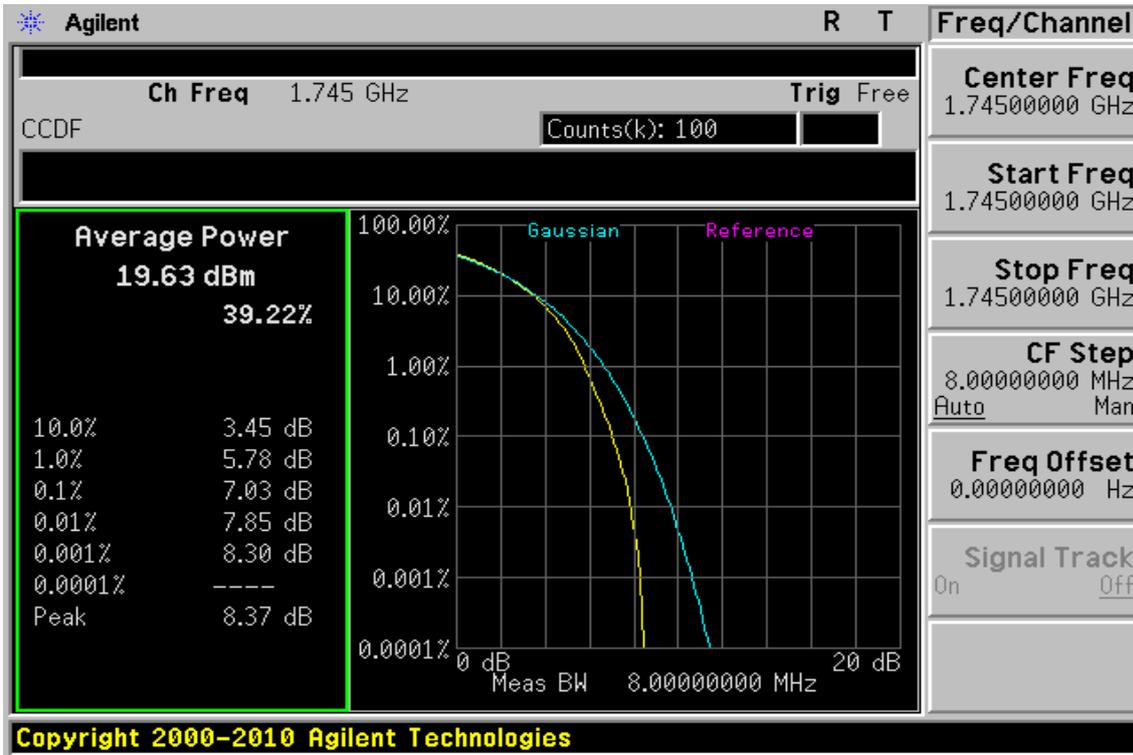
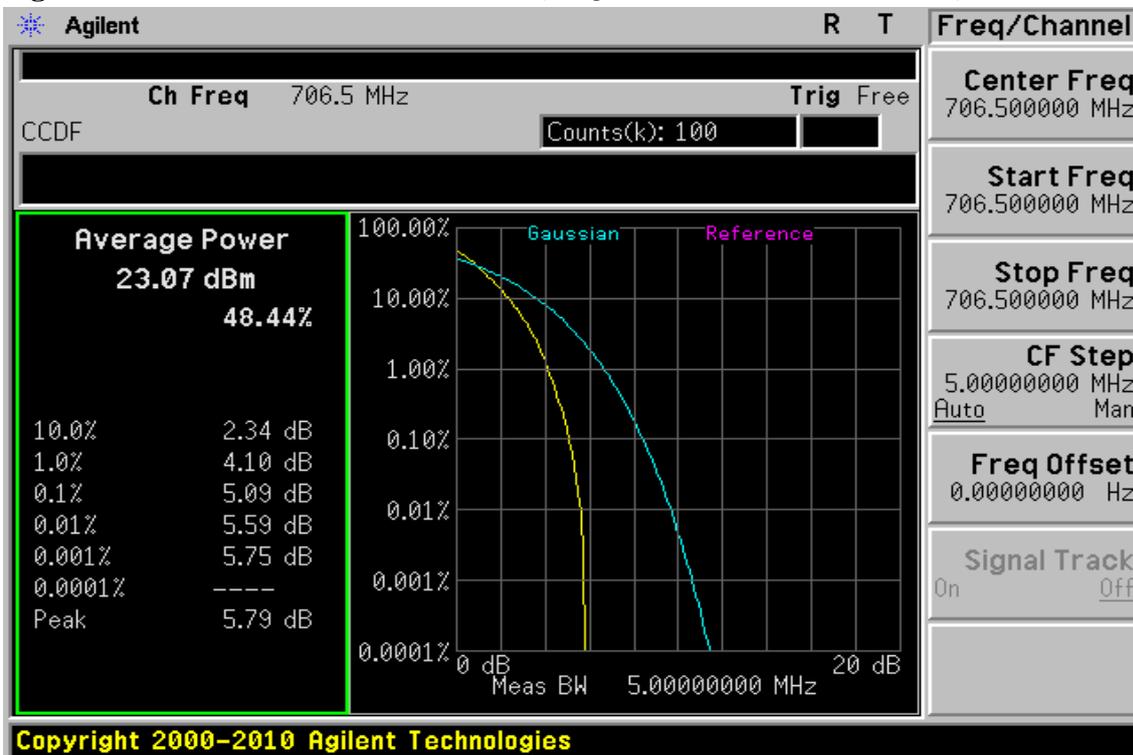


Figure 13-64: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Low



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Figure 13-65: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Mid

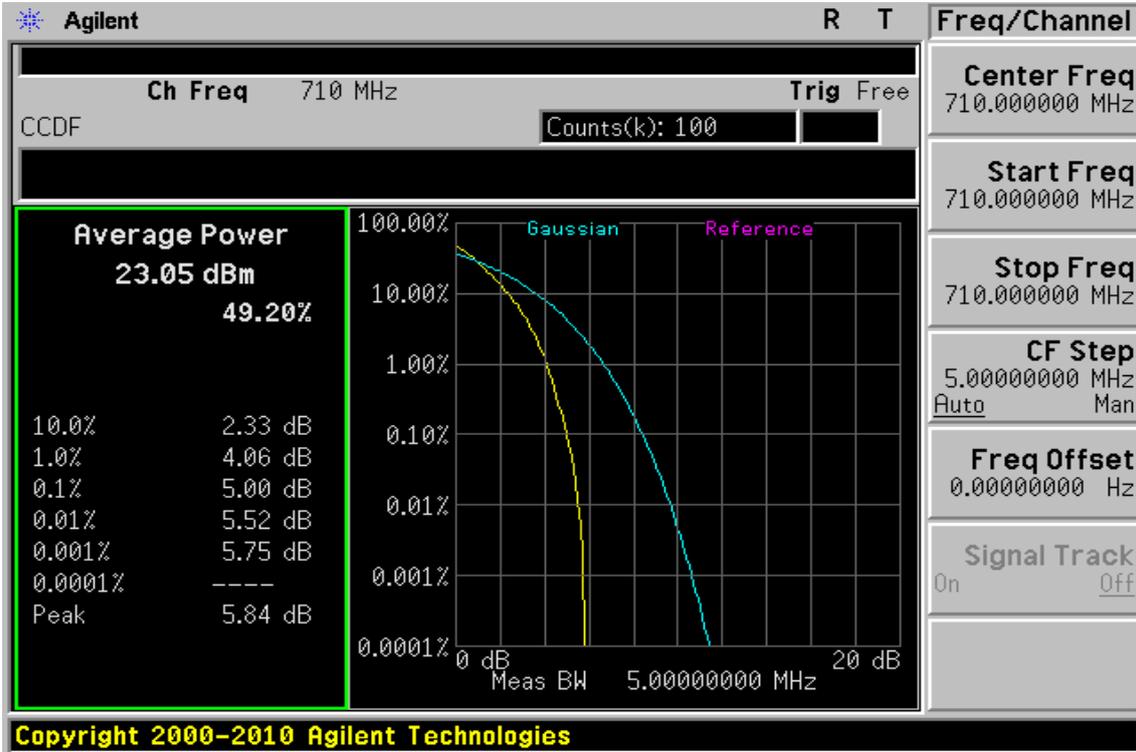
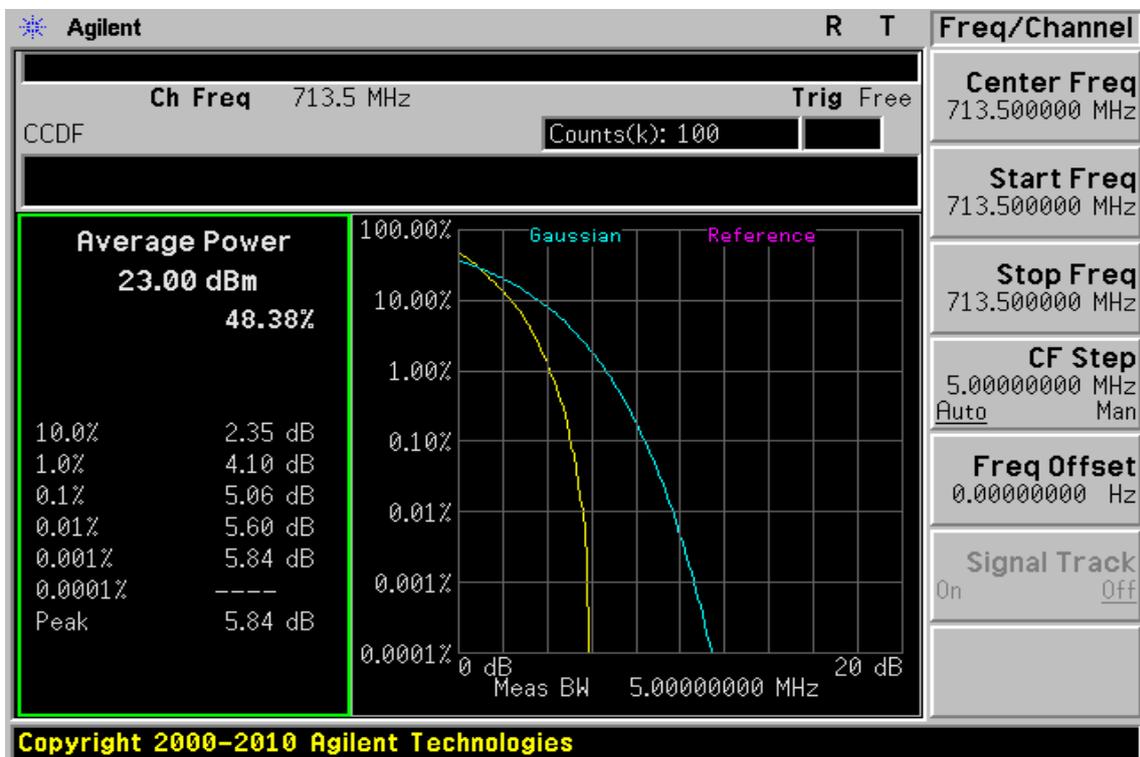


Figure 13-66: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel High



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Figure 13-67: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Low

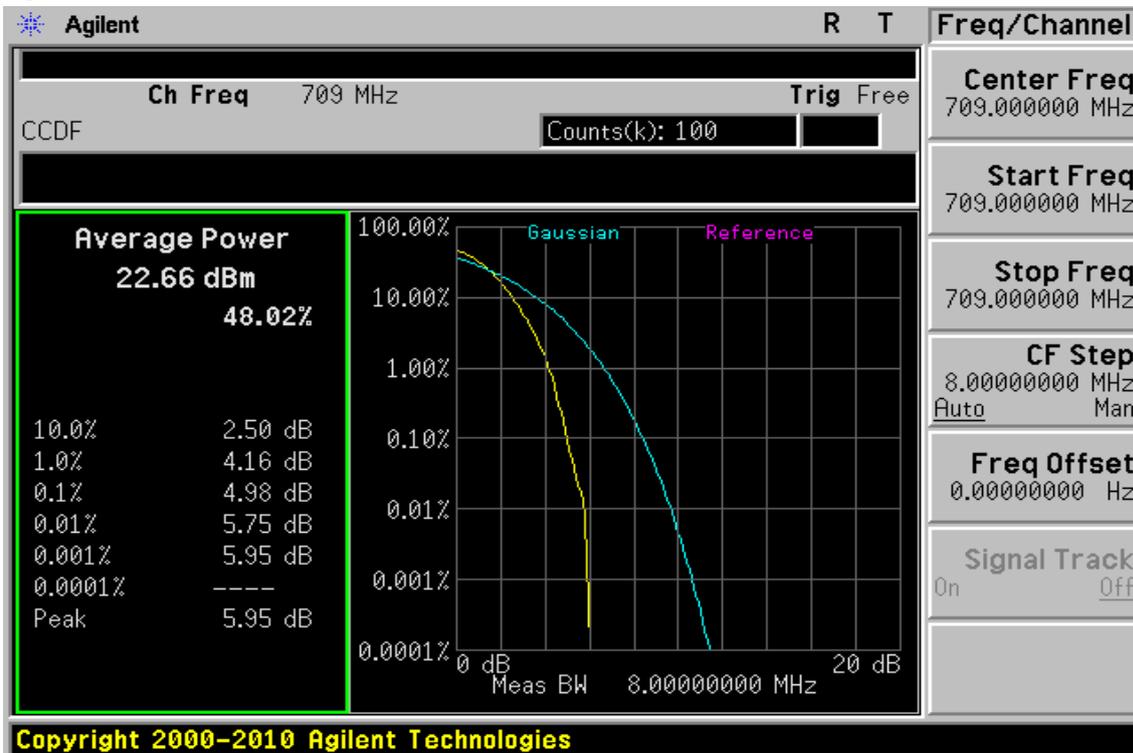
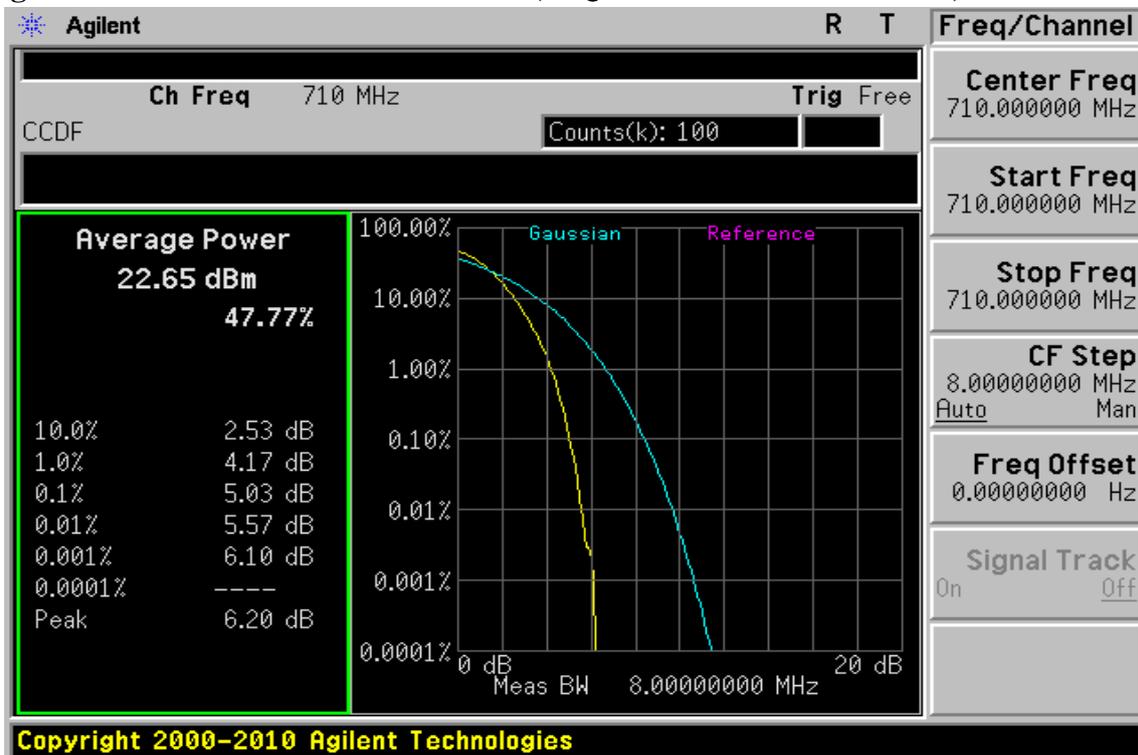


Figure 13-68: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Mid



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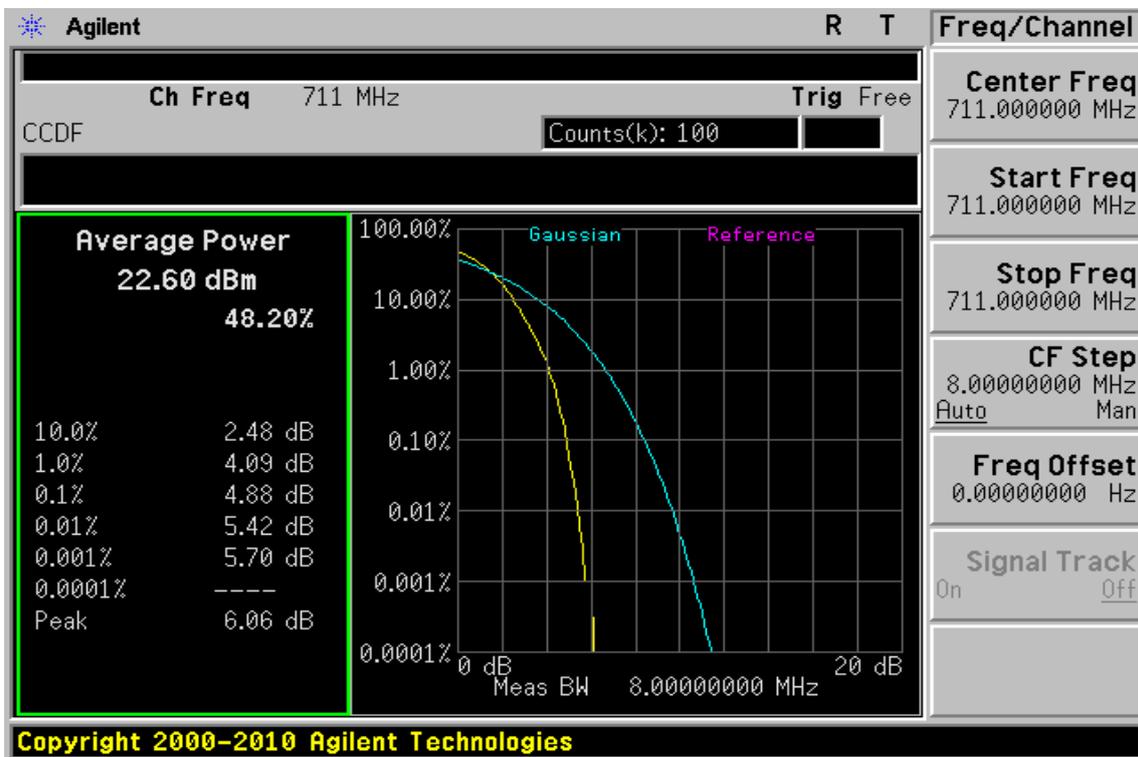
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**Figure 13-69: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel High**



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# APPENDIX 1

## MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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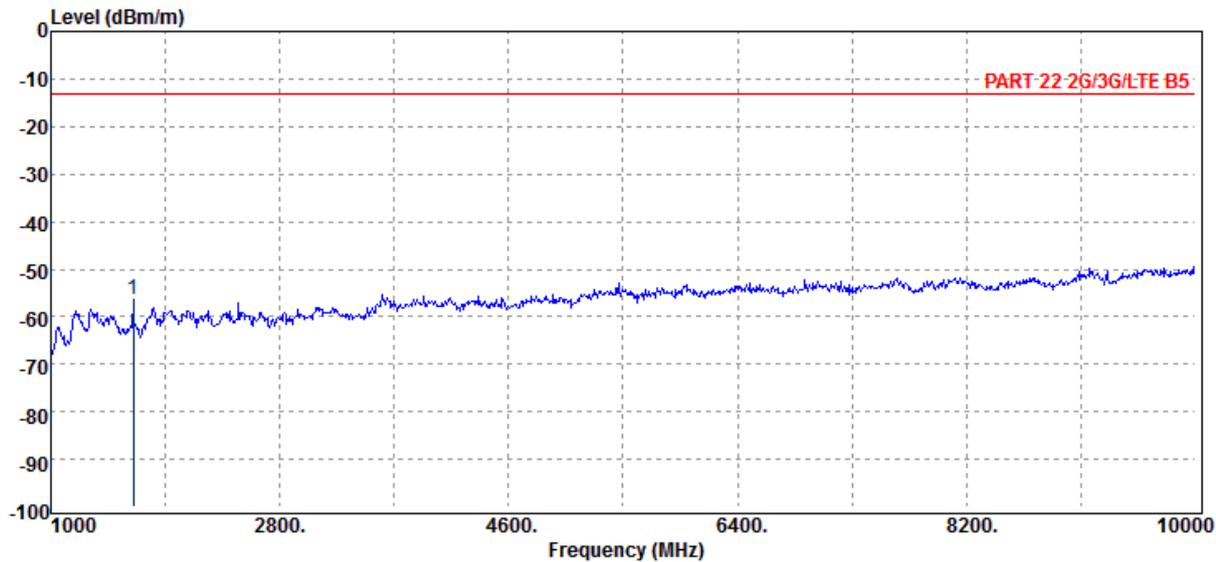
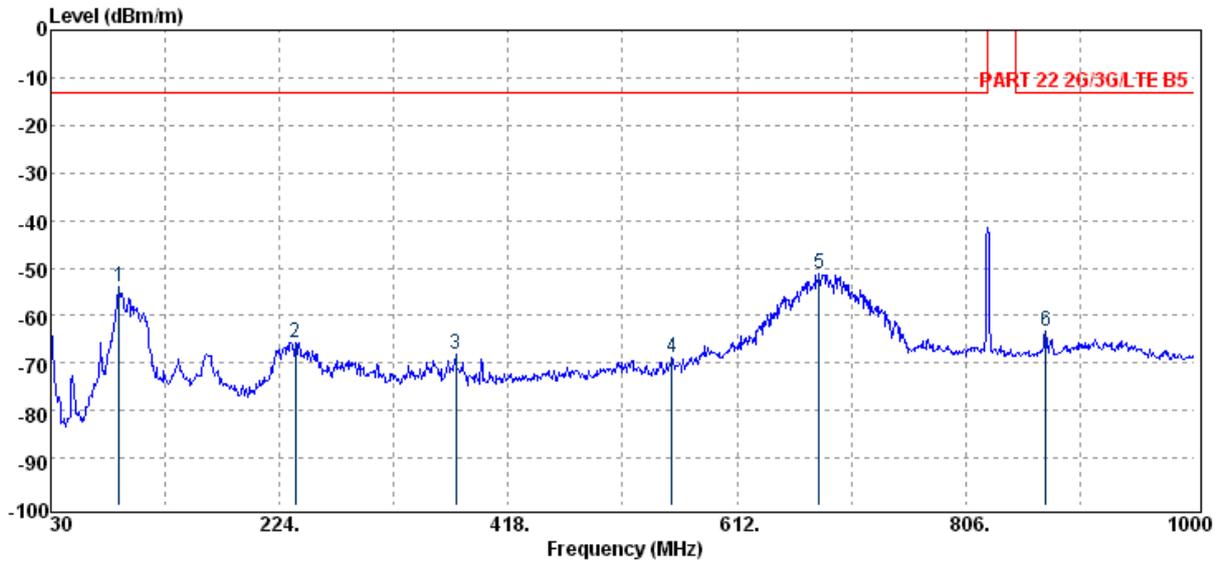
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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

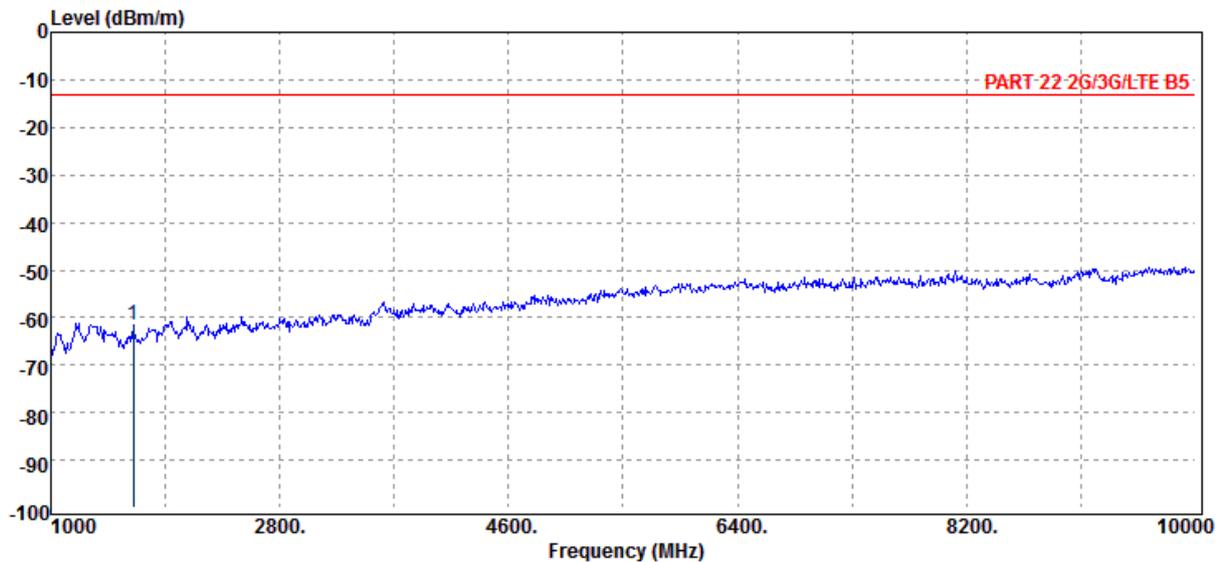
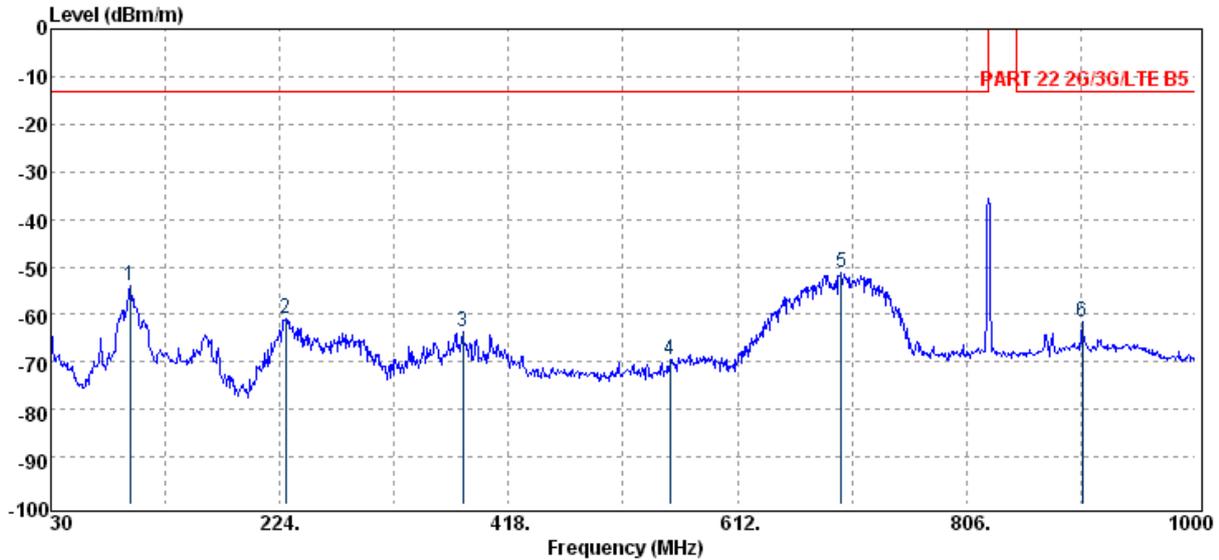
Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 128	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 128	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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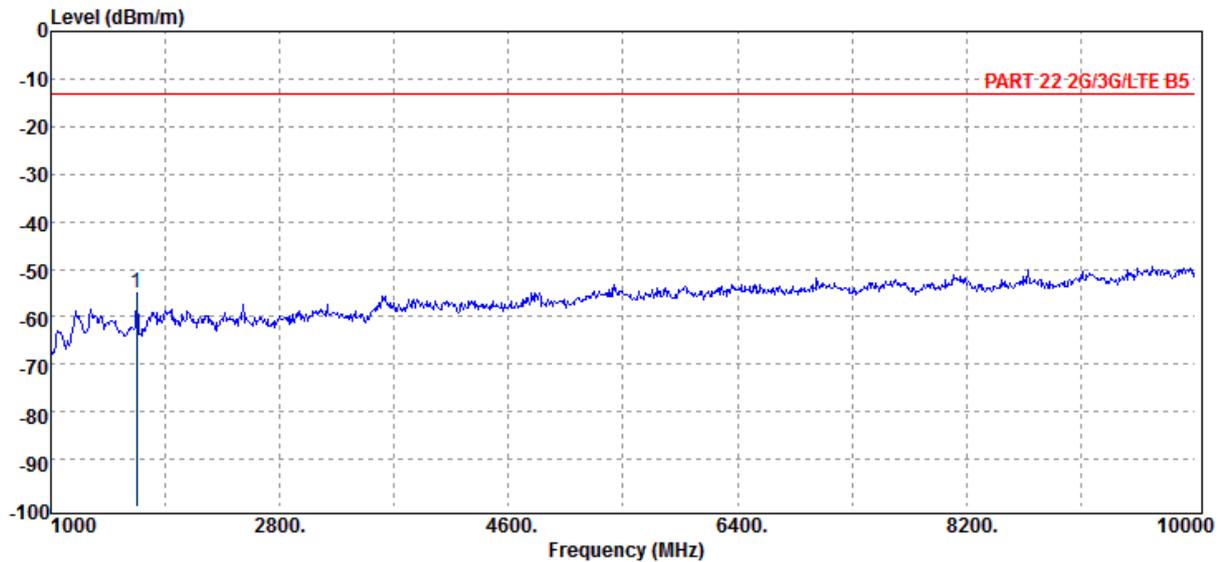
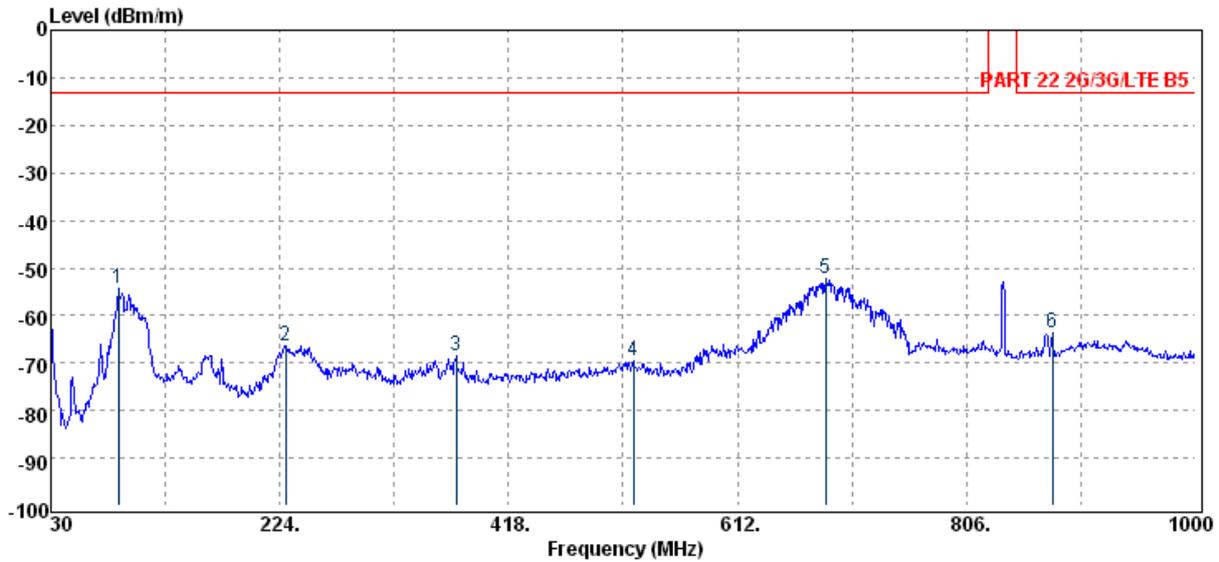
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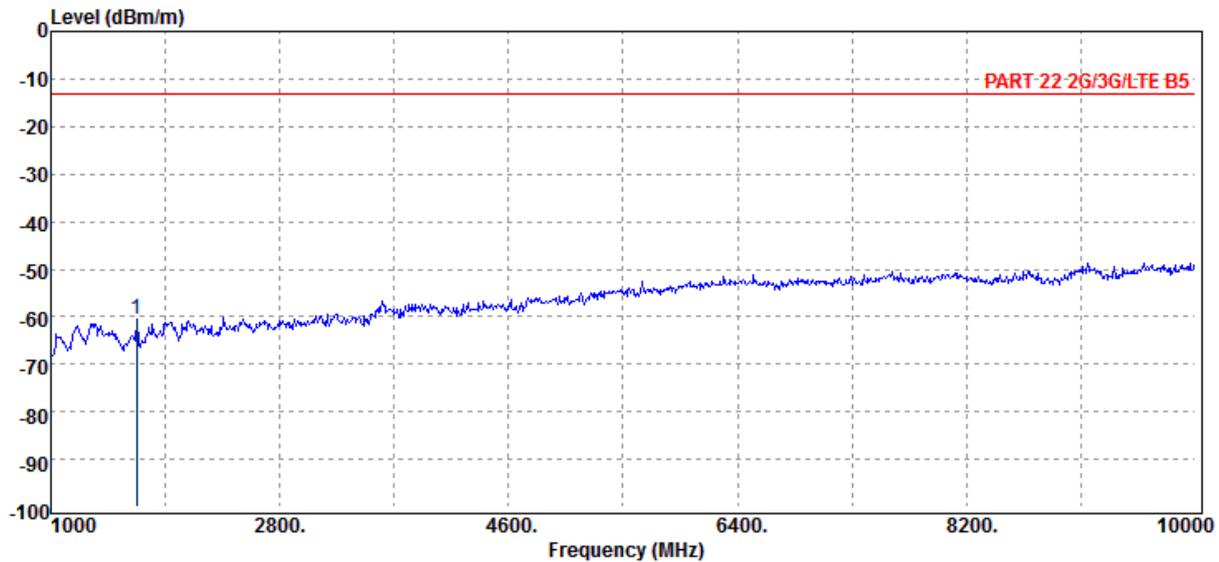
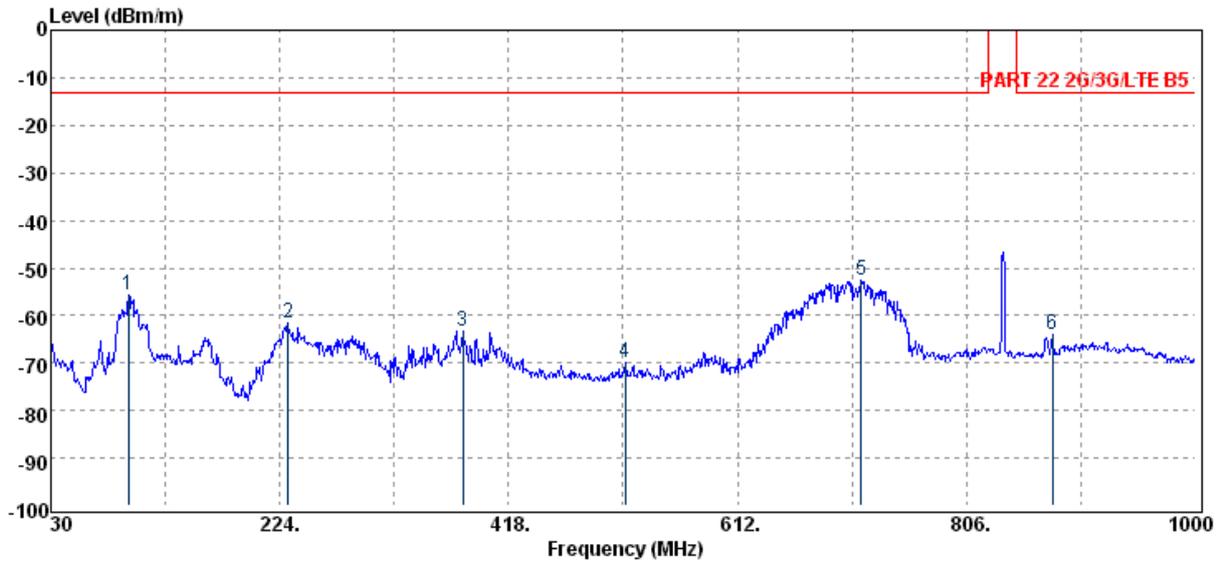
Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 190	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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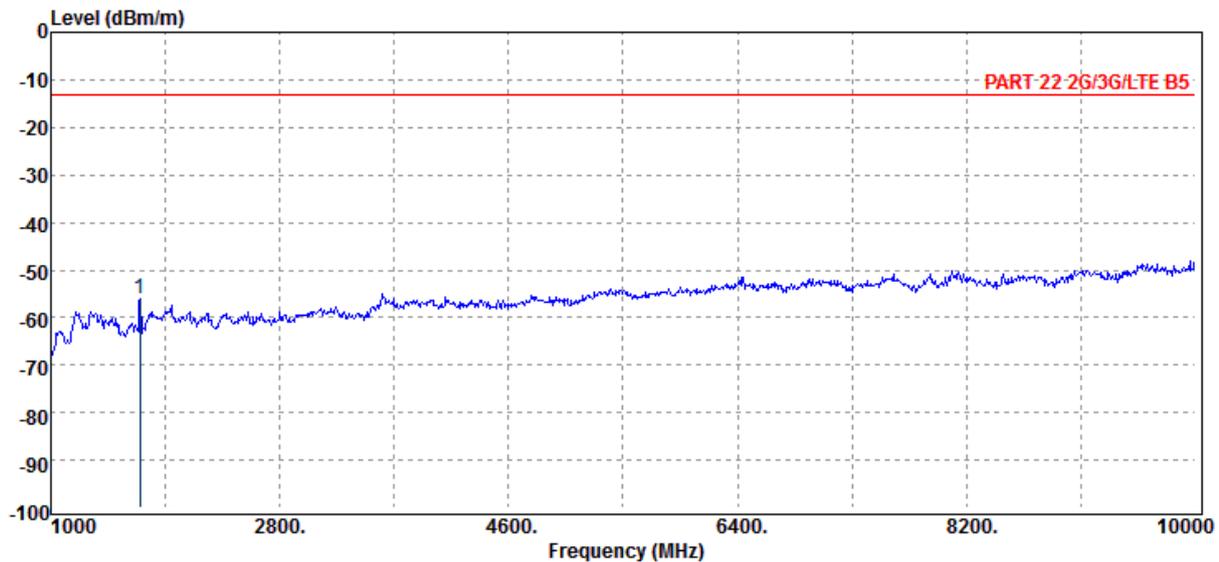
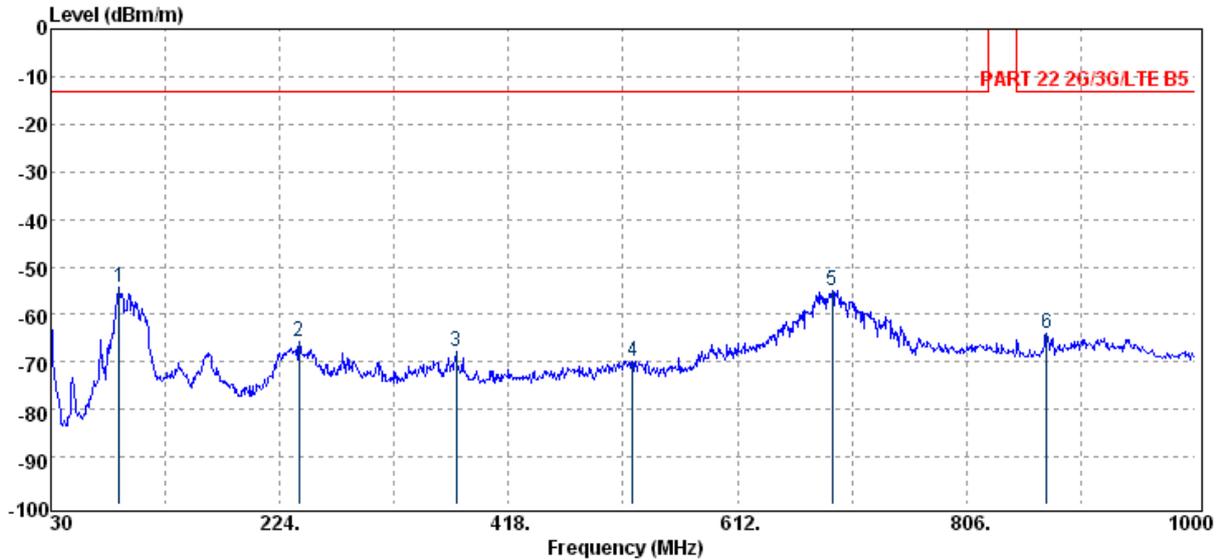
Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 190	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 251	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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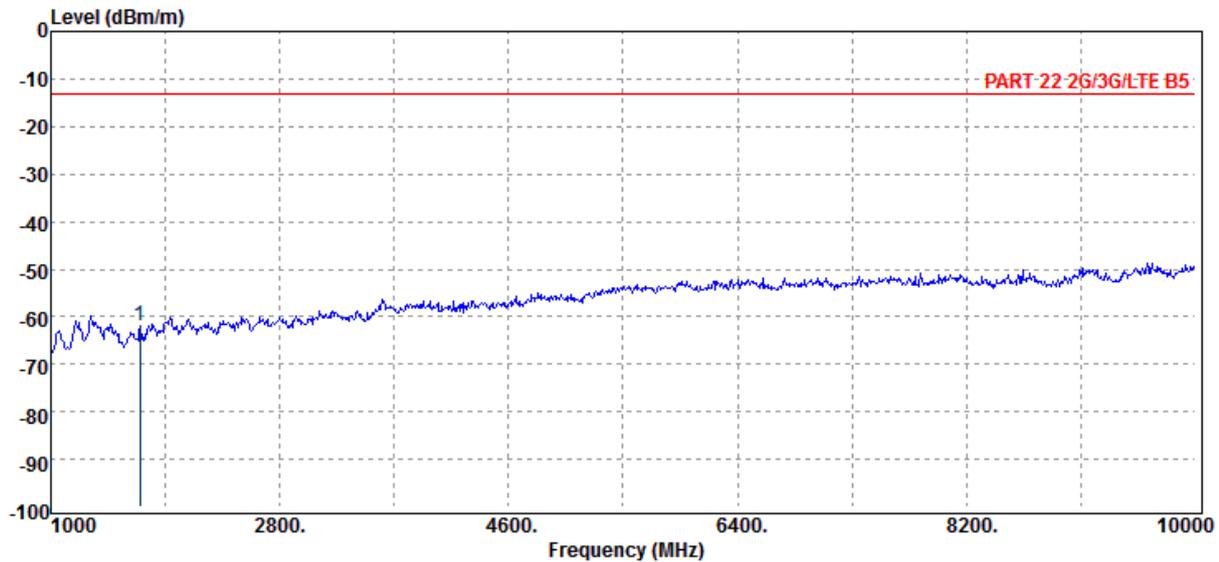
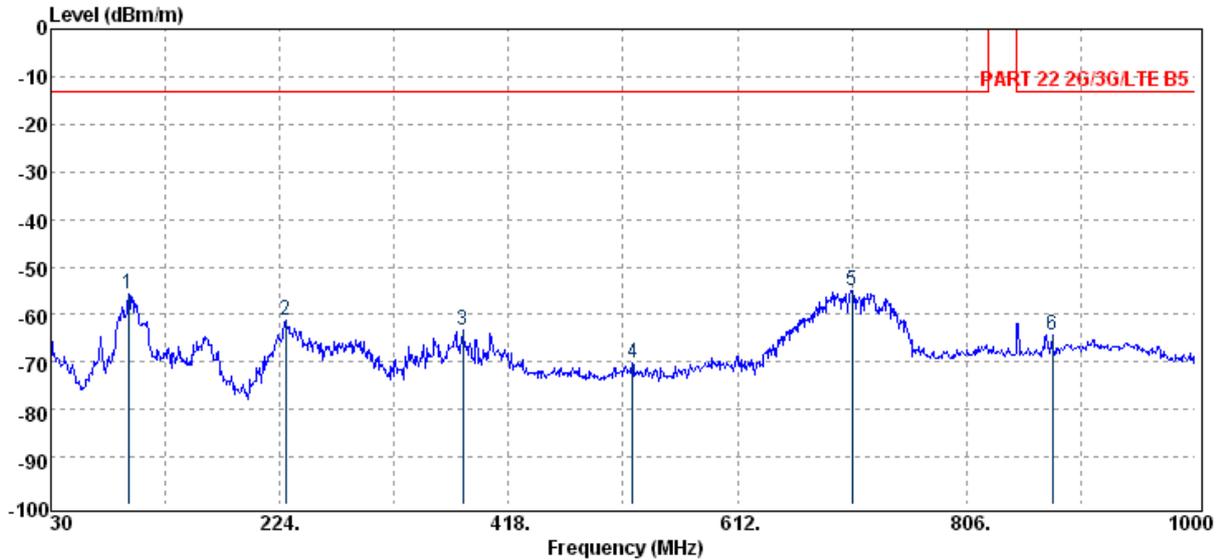
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Operation Band	:GSM 850	Test Date	:2014-03-01
ARFCN	:CH 251	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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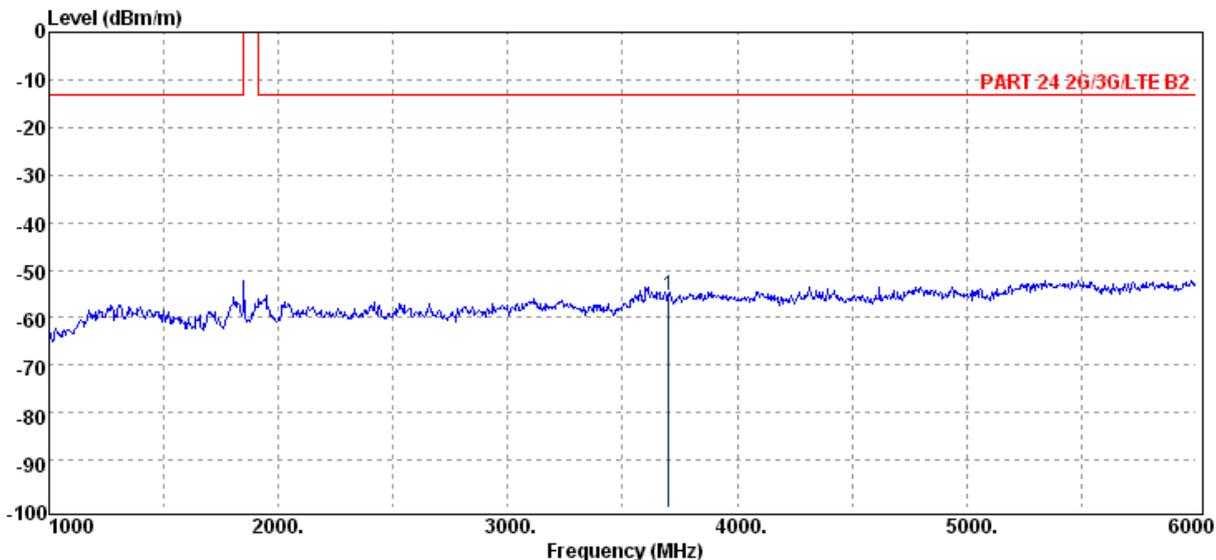
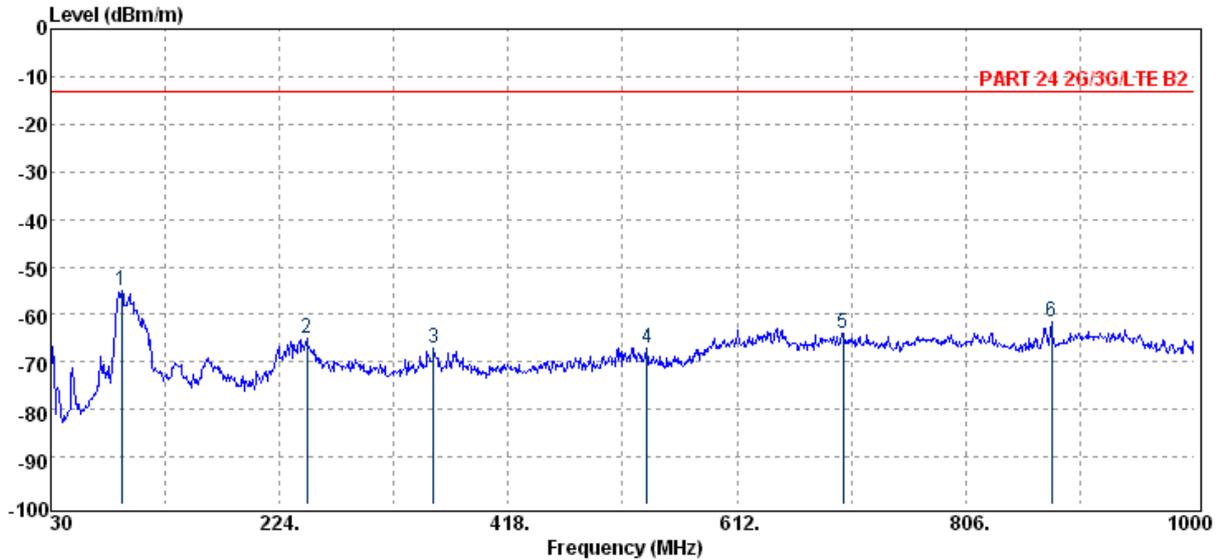
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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 512	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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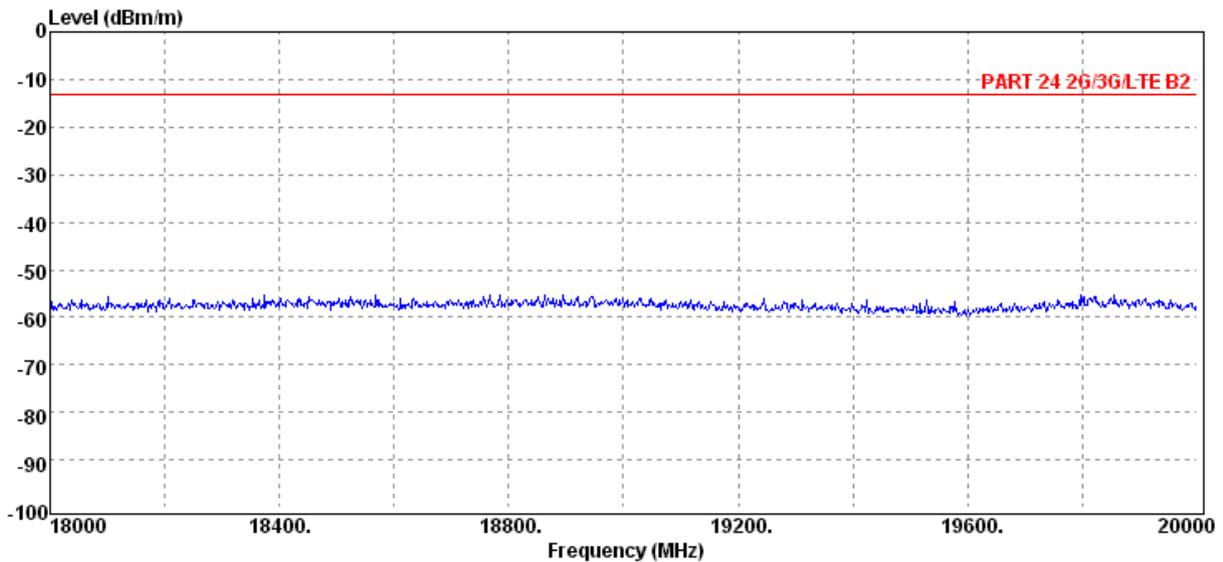
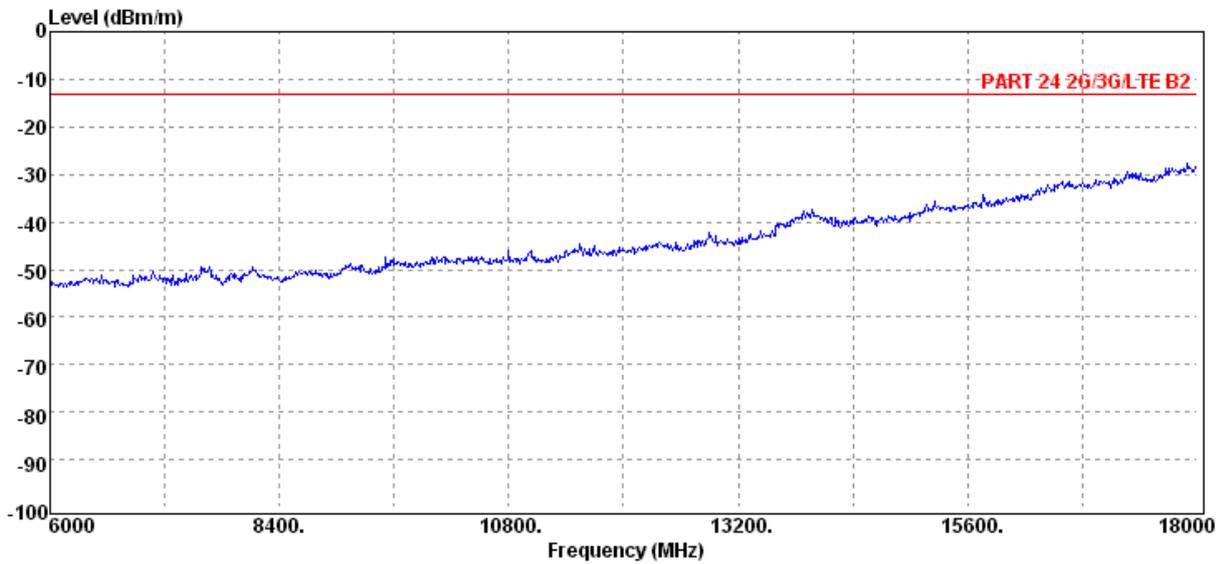
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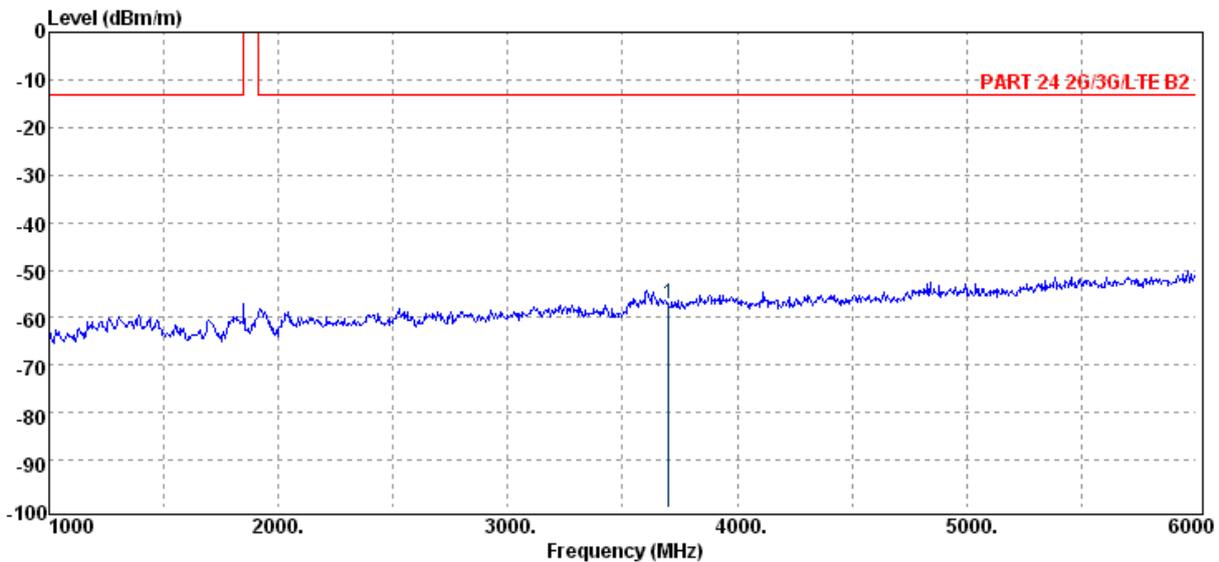
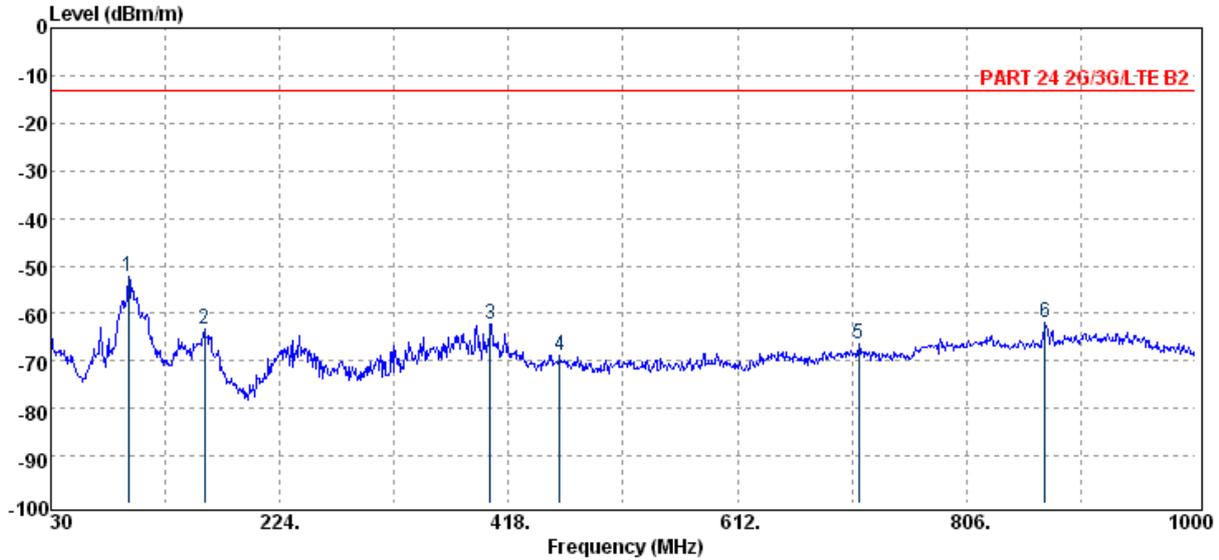
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 512	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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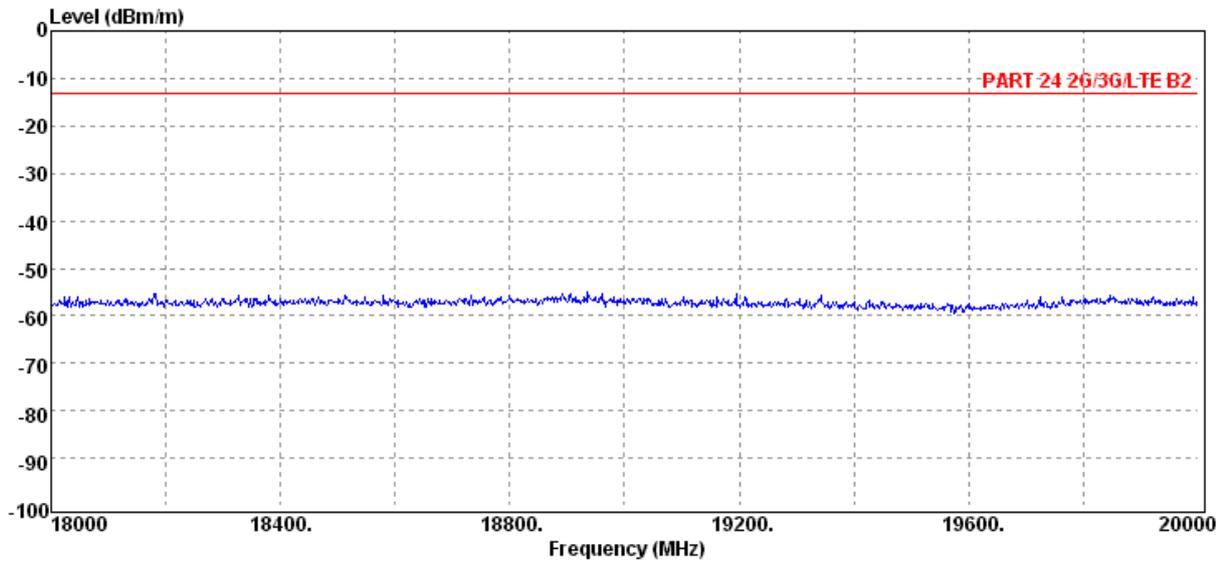
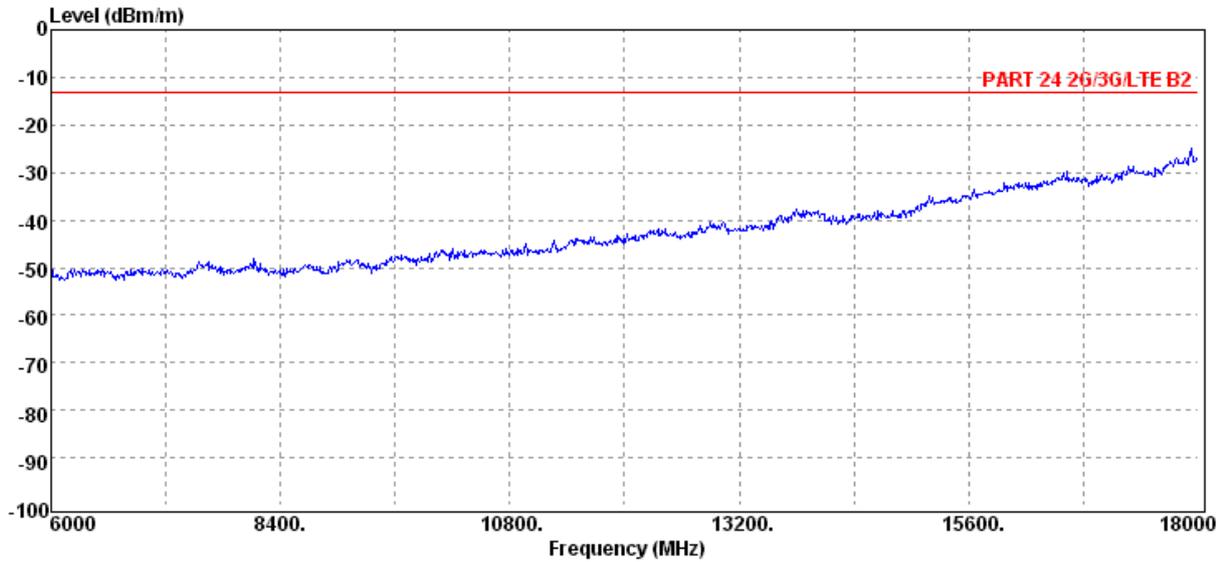
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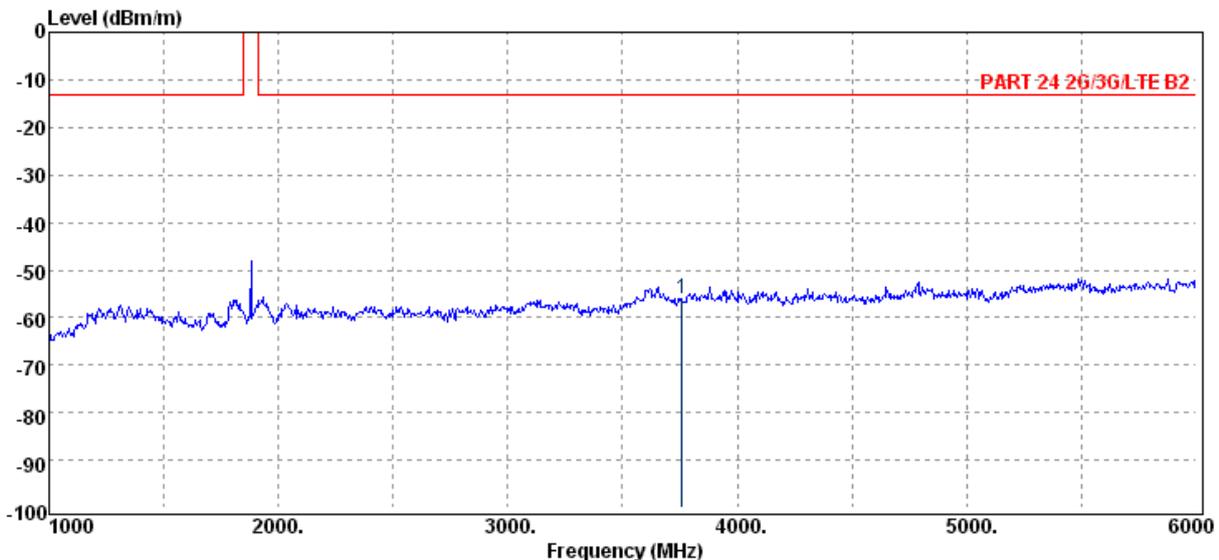
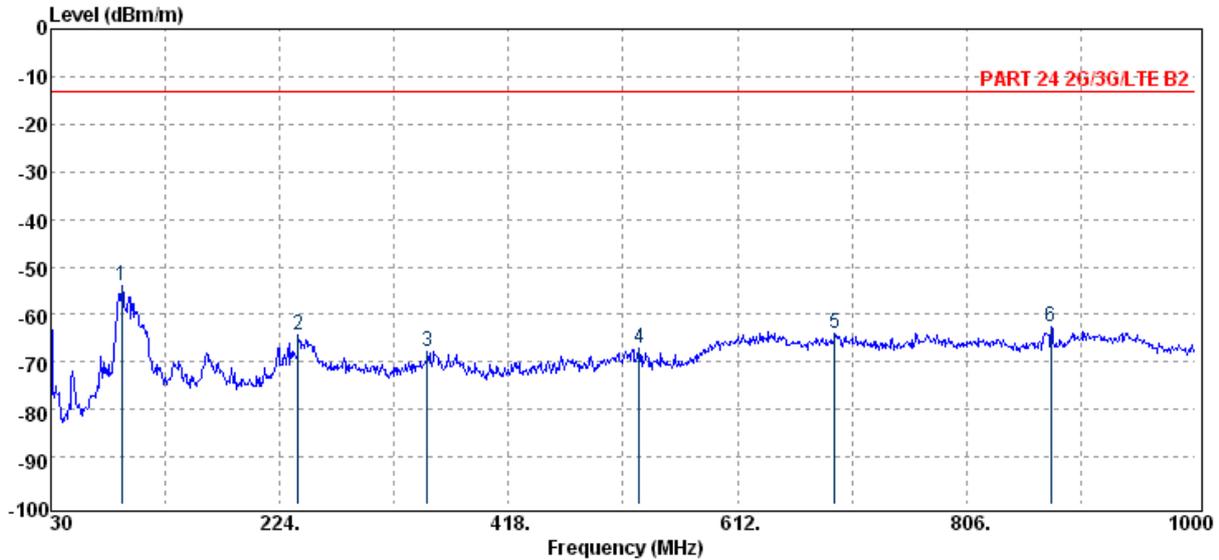
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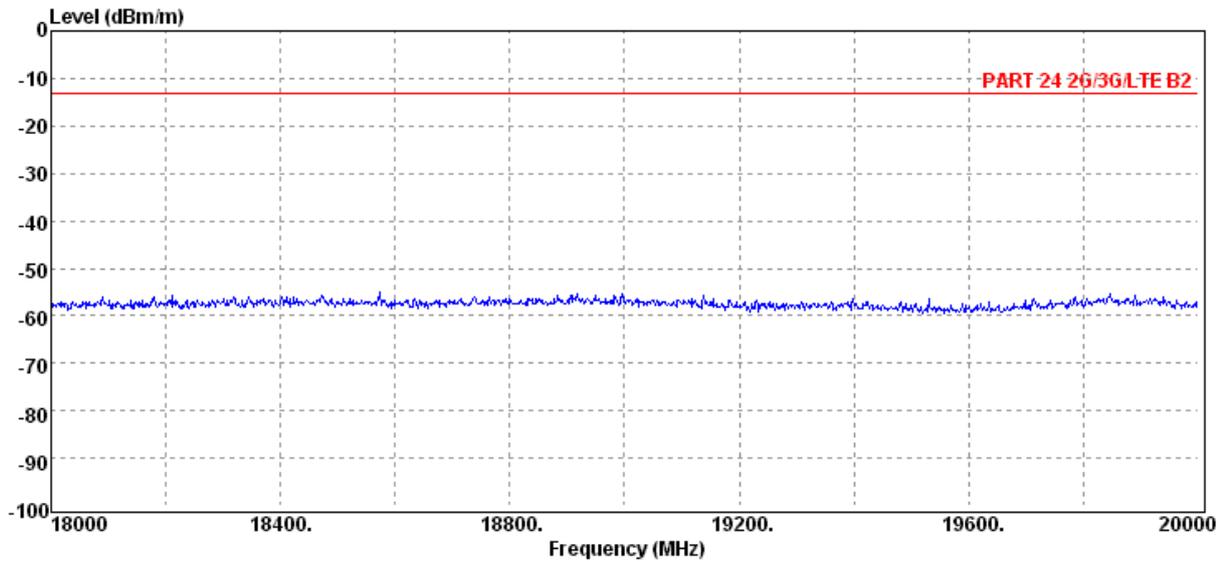
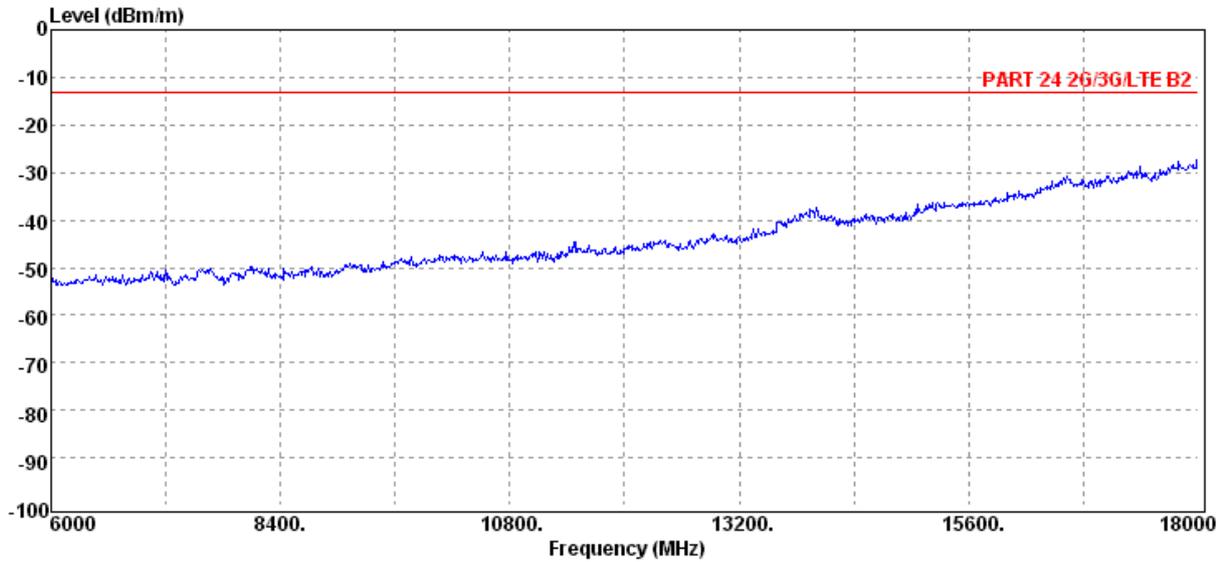
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 661	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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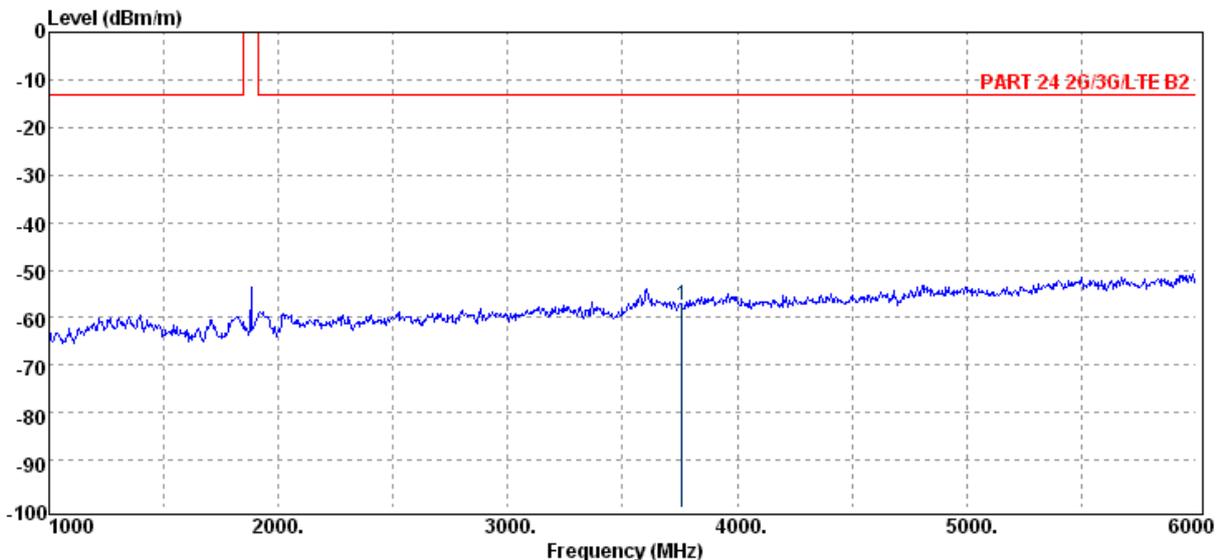
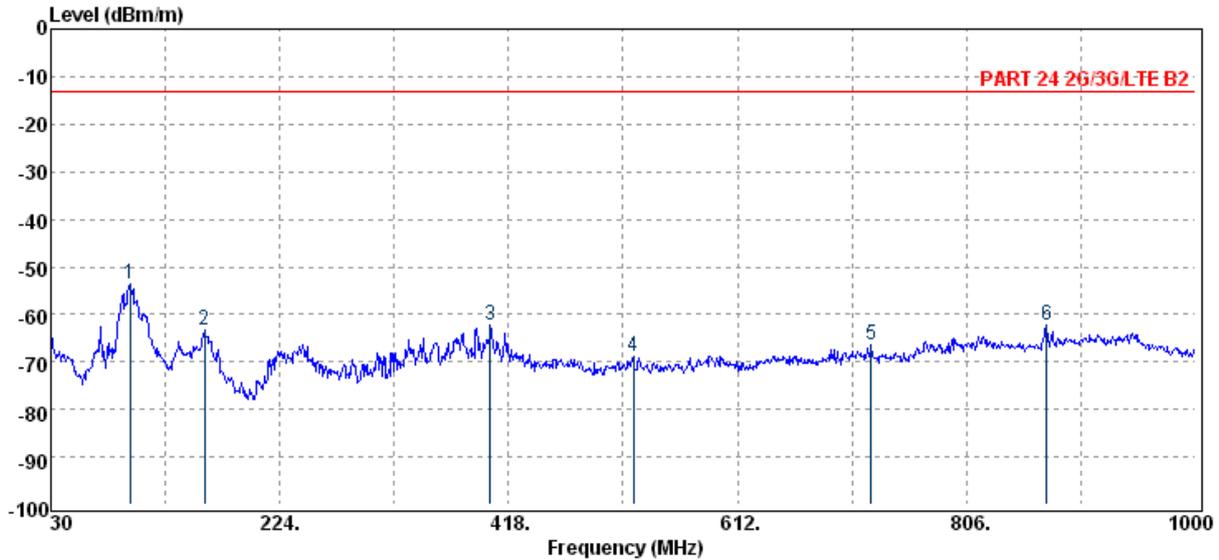
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 661	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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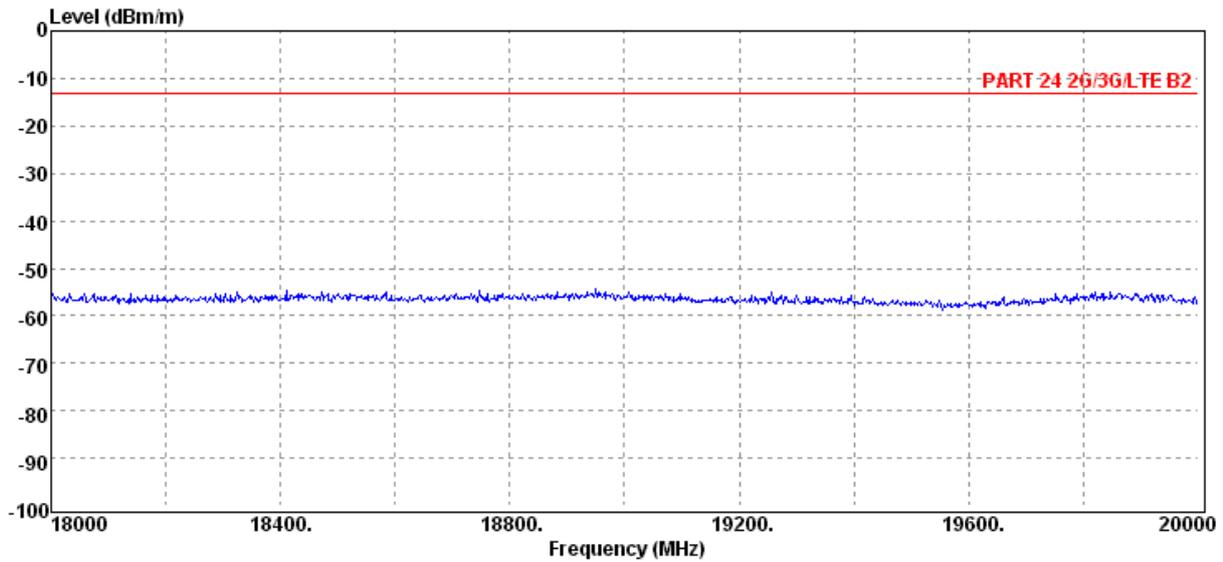
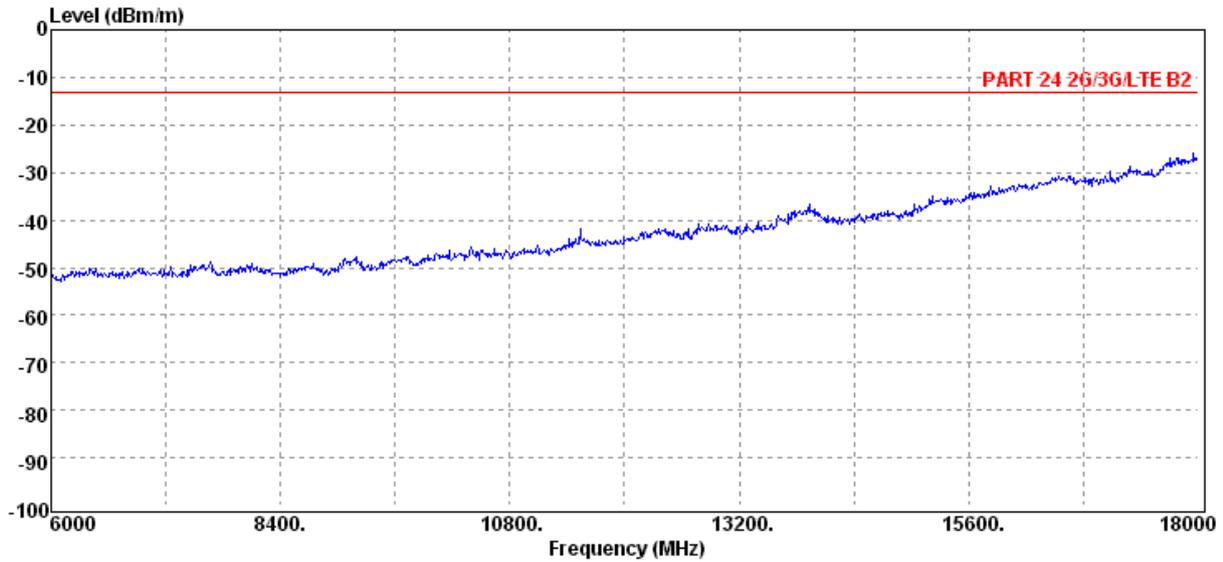
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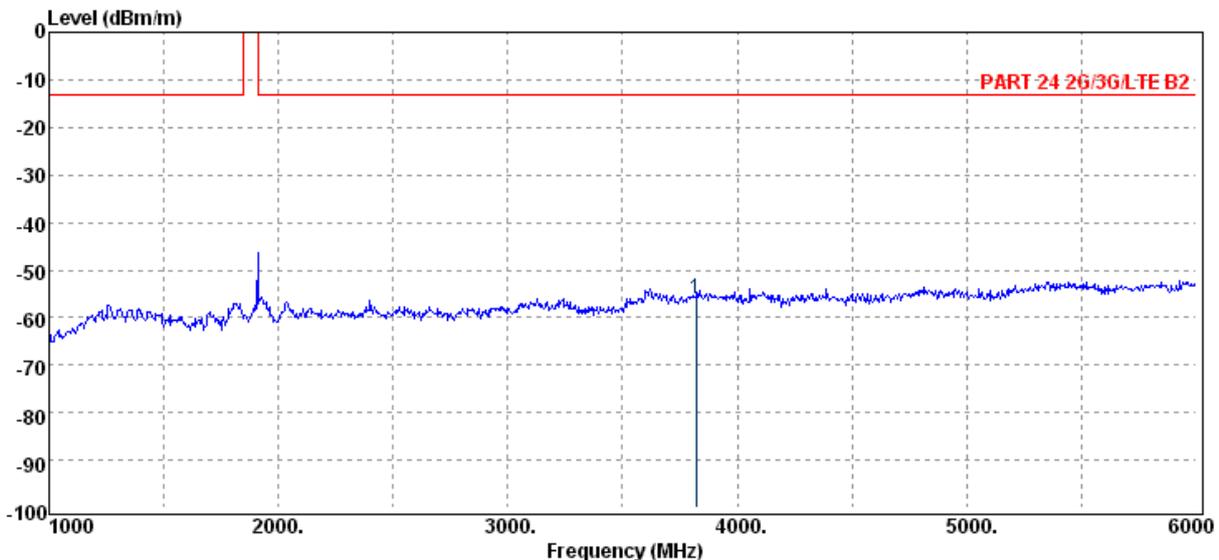
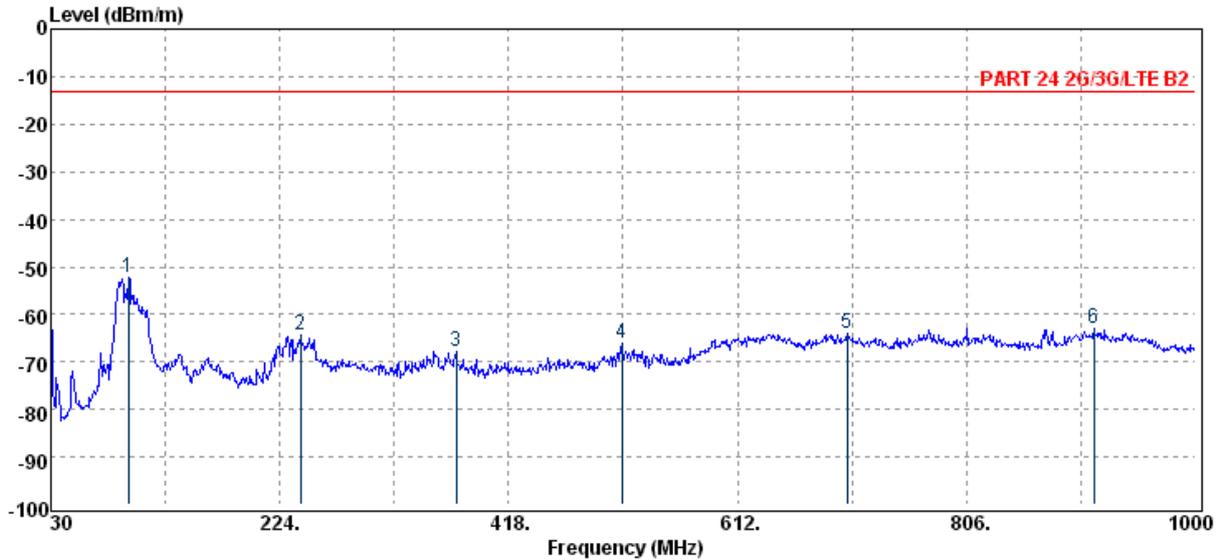
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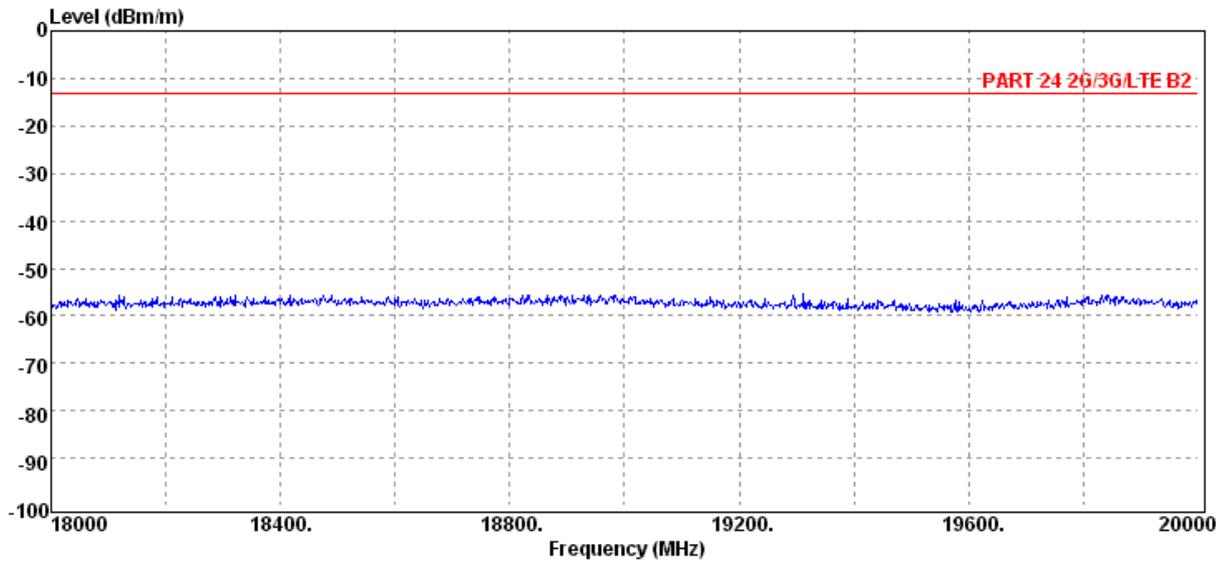
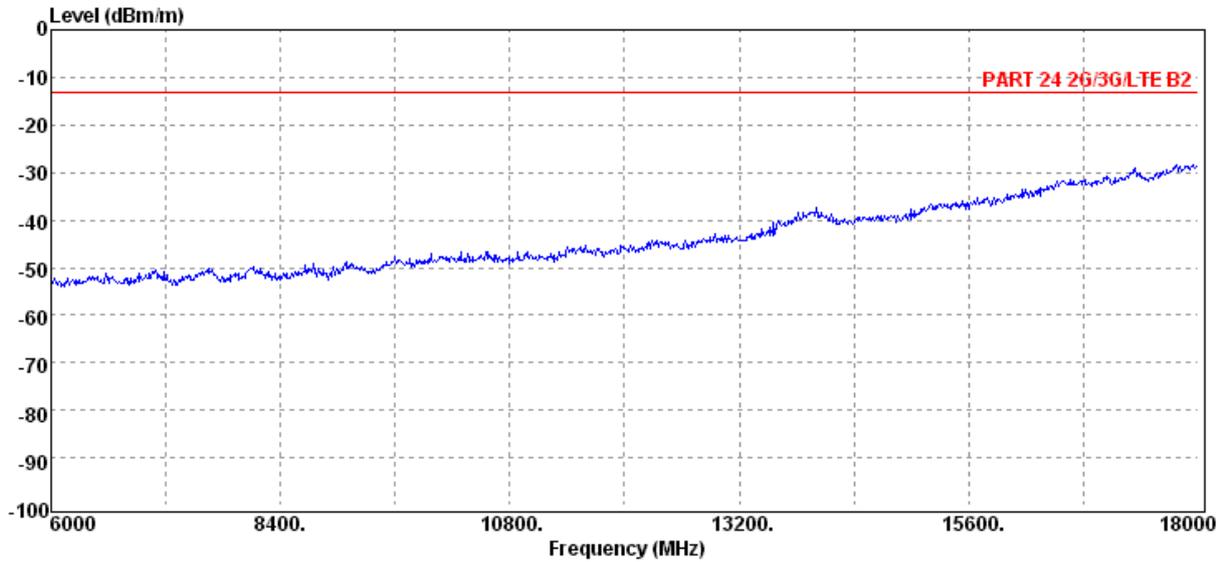
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 810	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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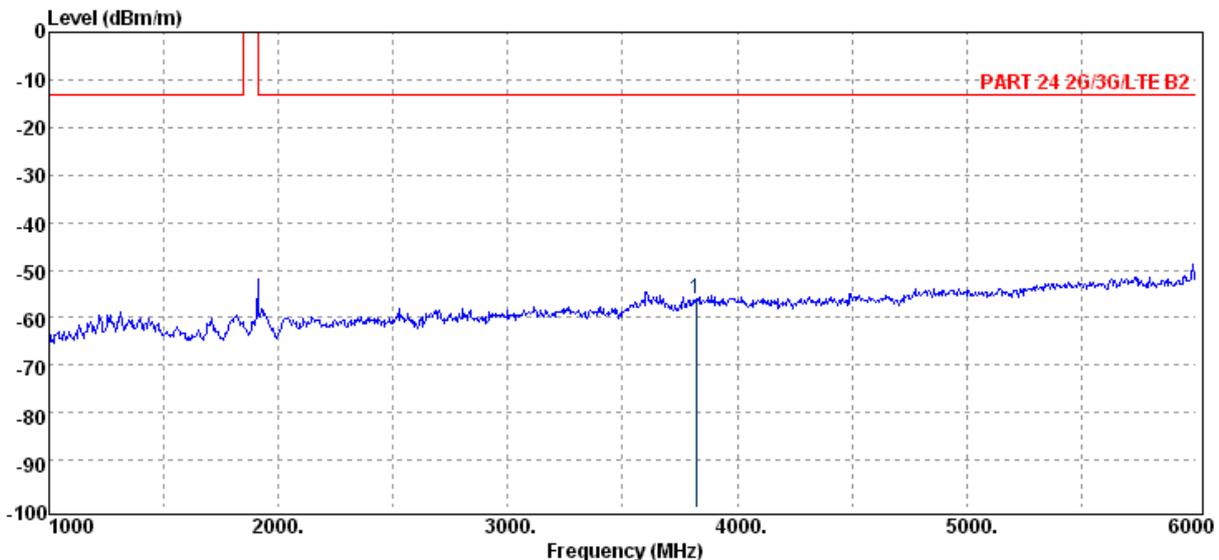
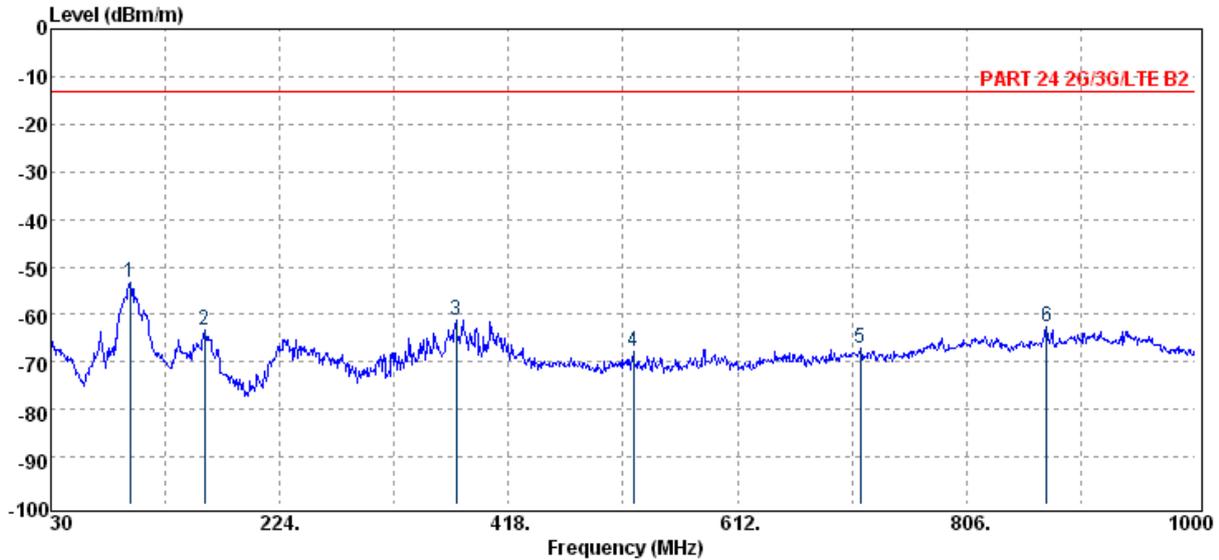
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
ARFCN	:CH 810	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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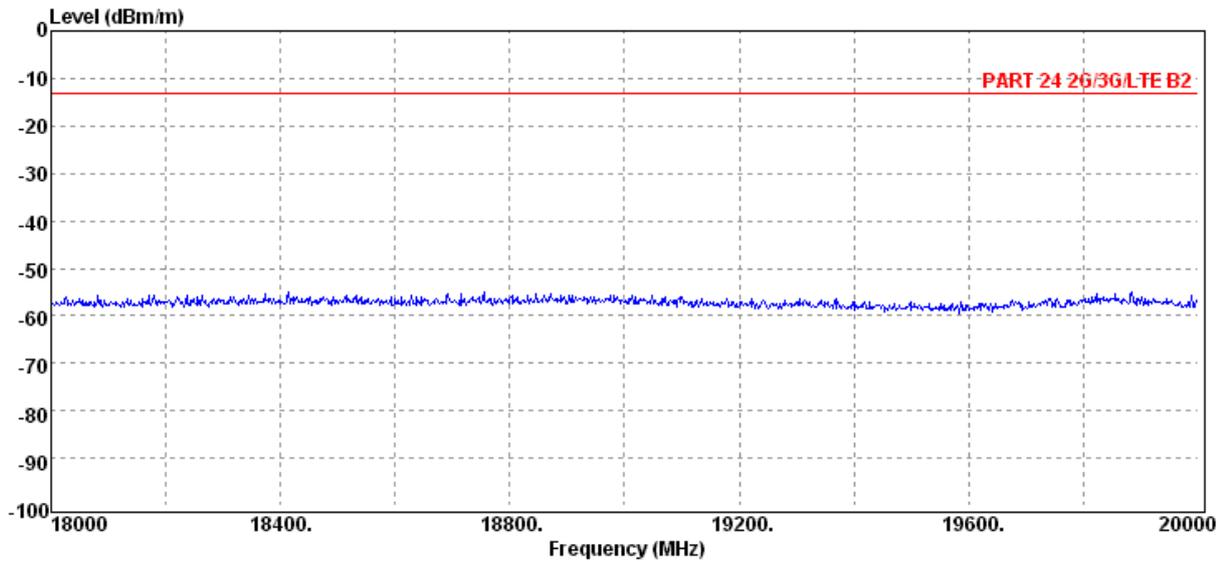
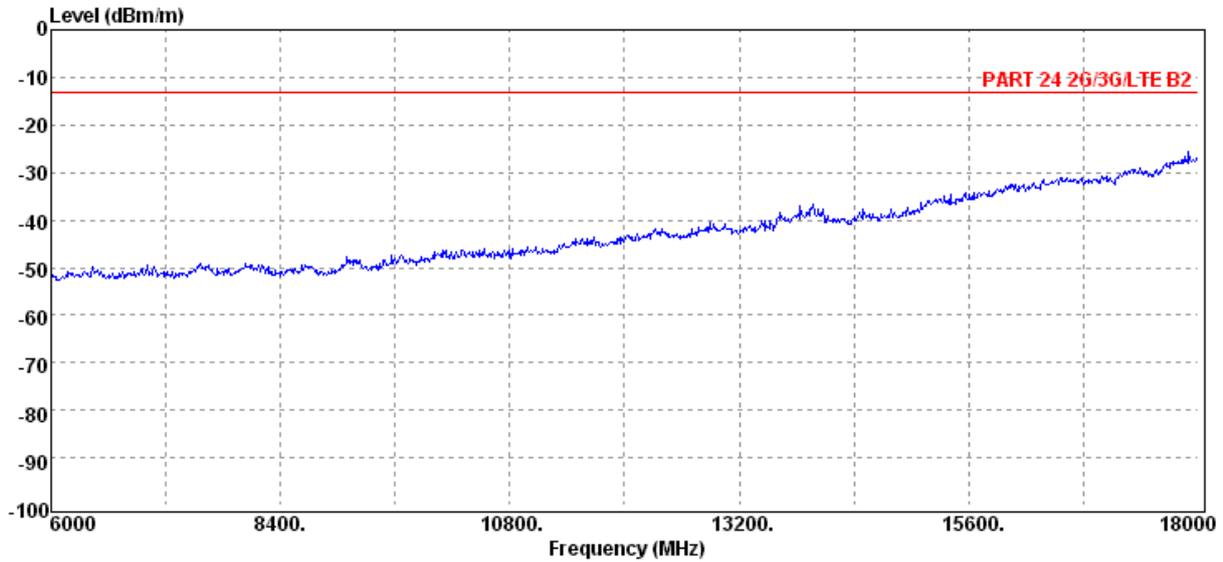
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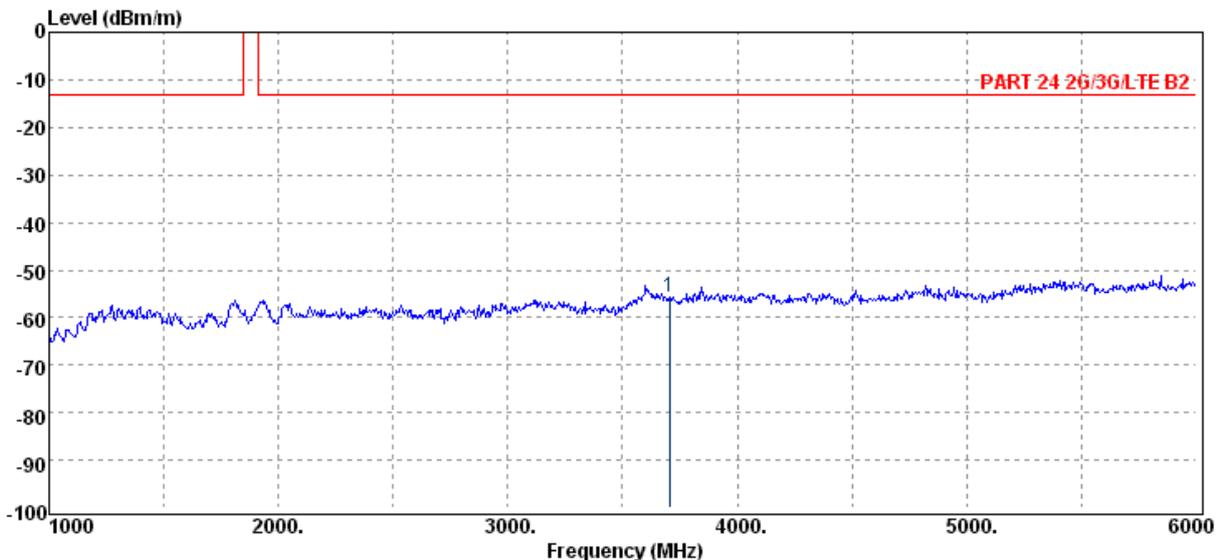
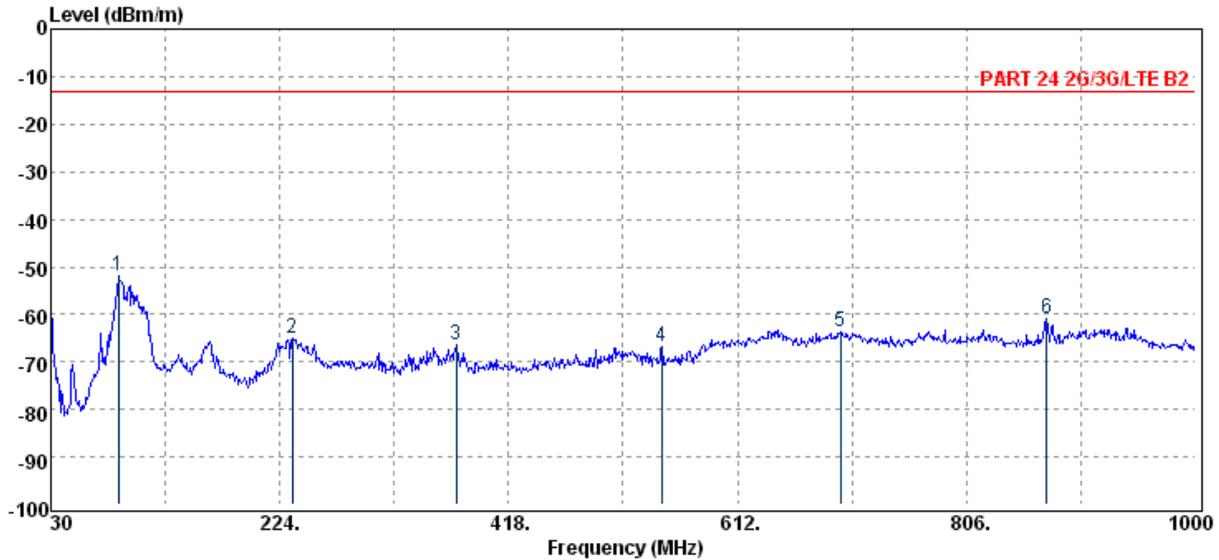
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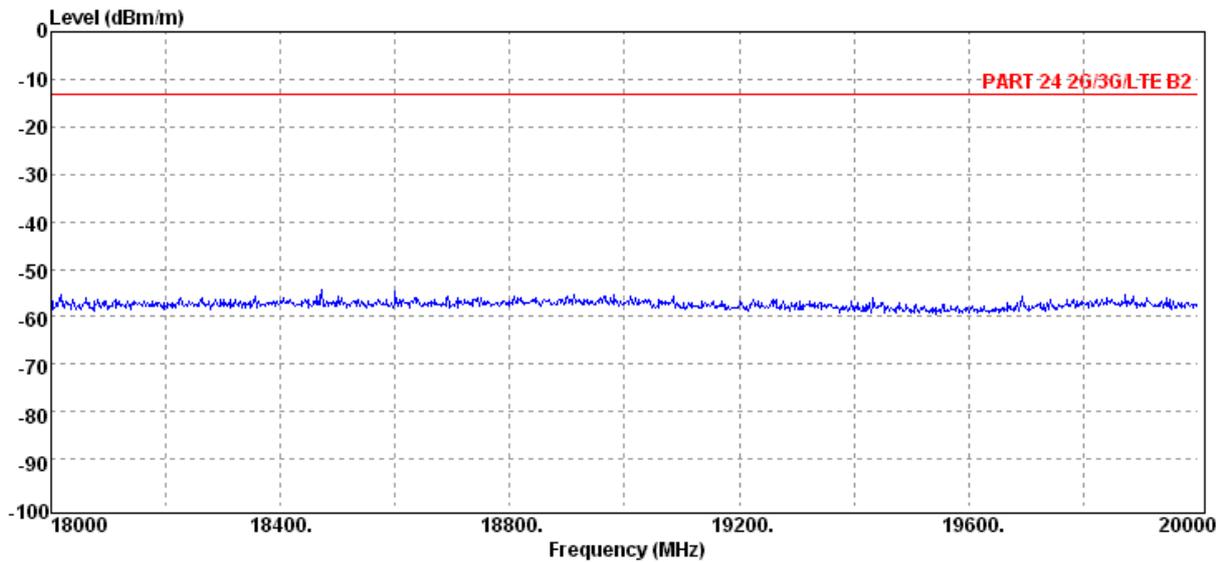
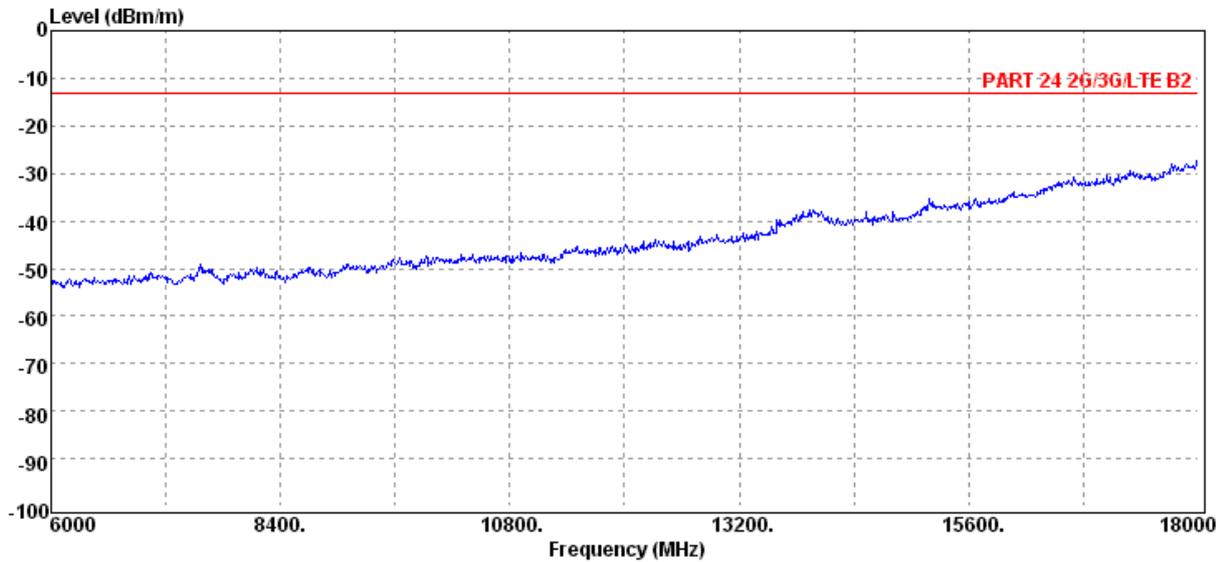
**Radiated Spurious Emission Measurement Result: HSDPA II Mode**

Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9262	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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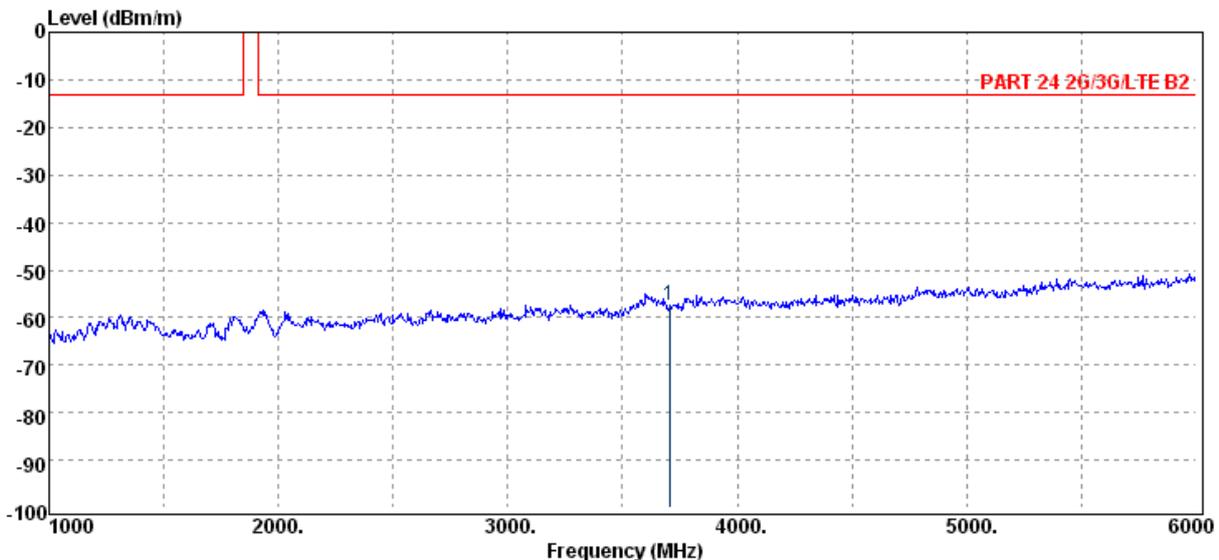
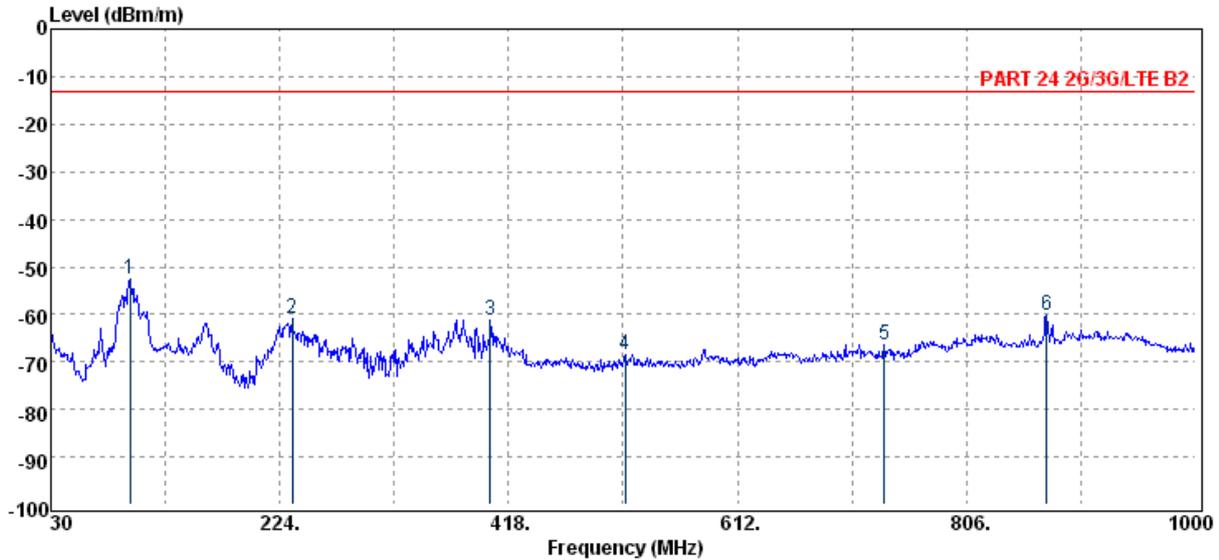


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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9262	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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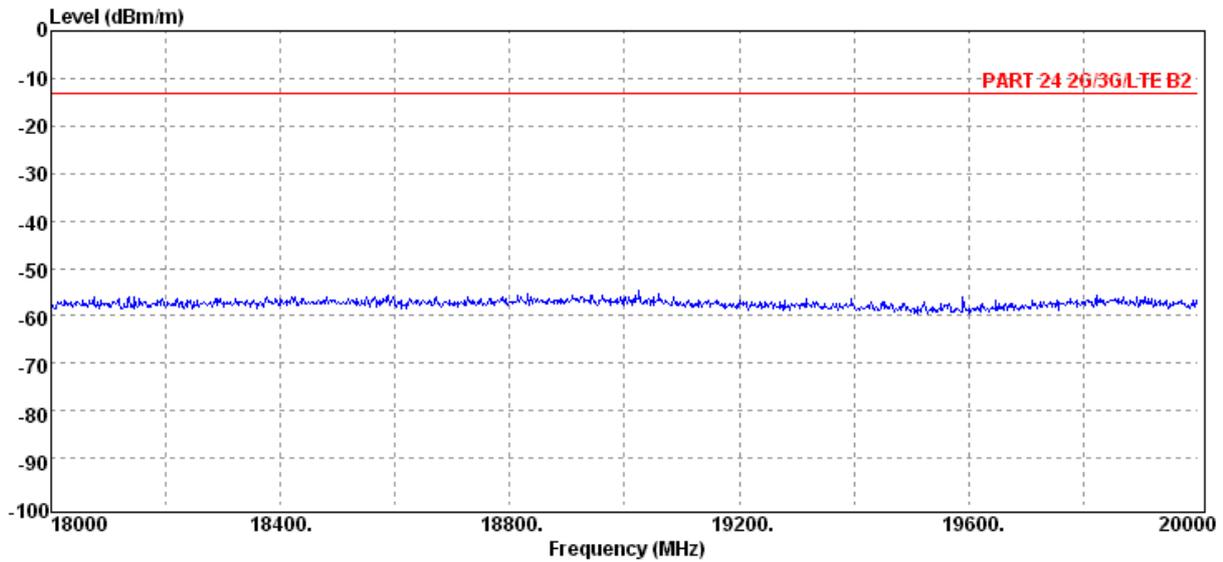
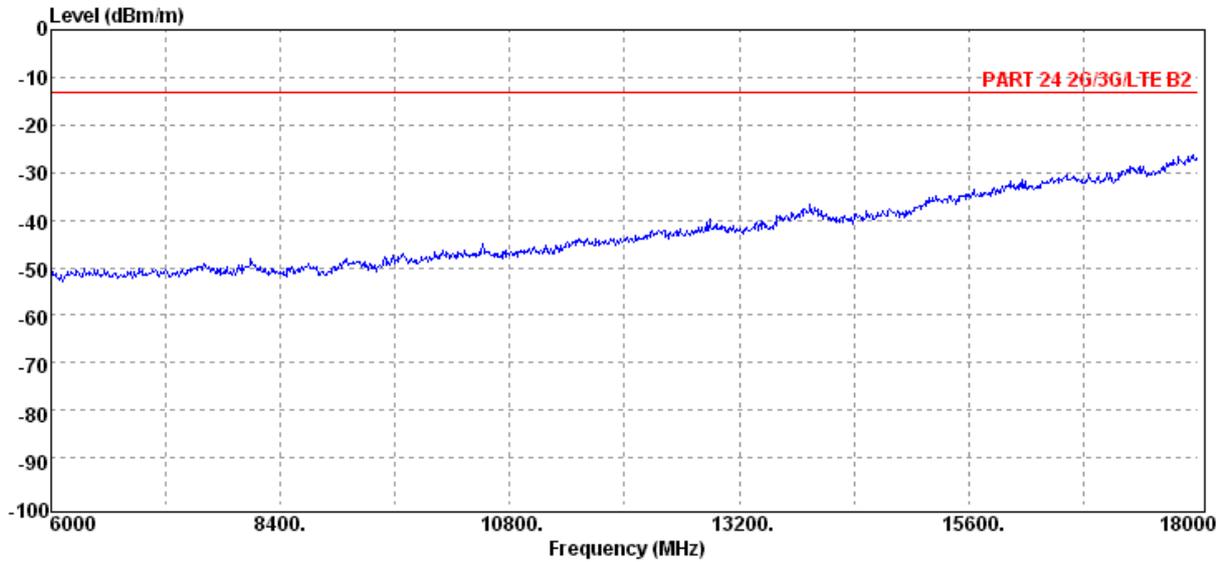
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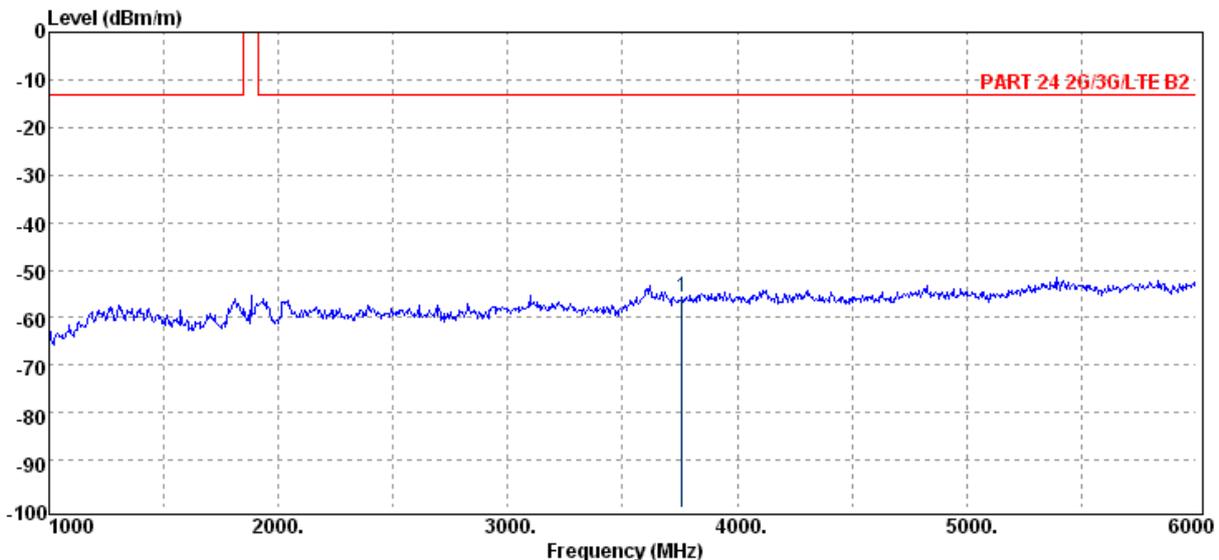
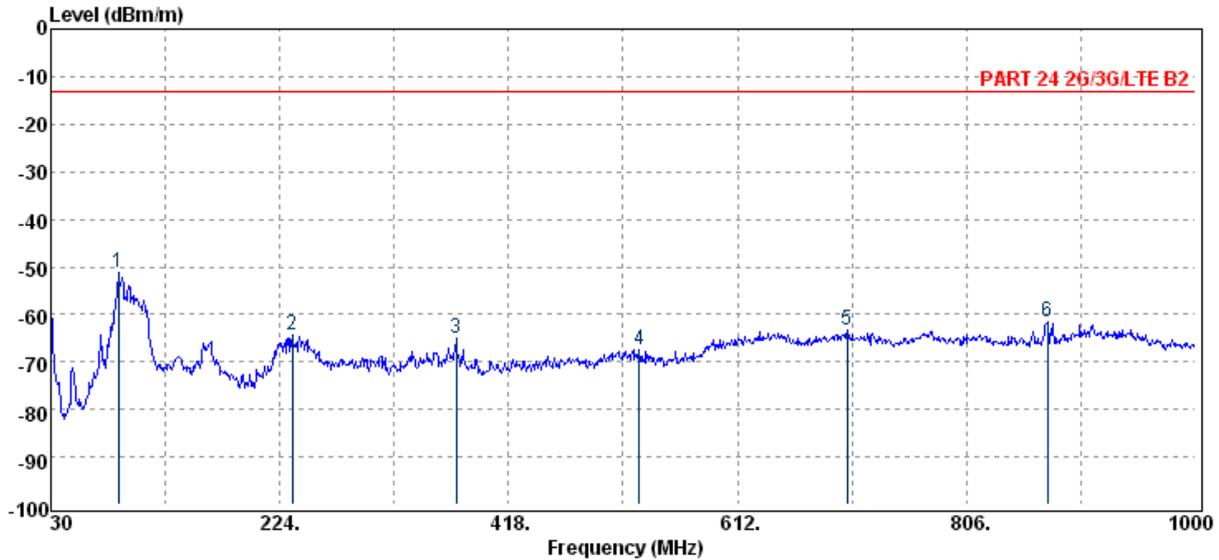
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9400	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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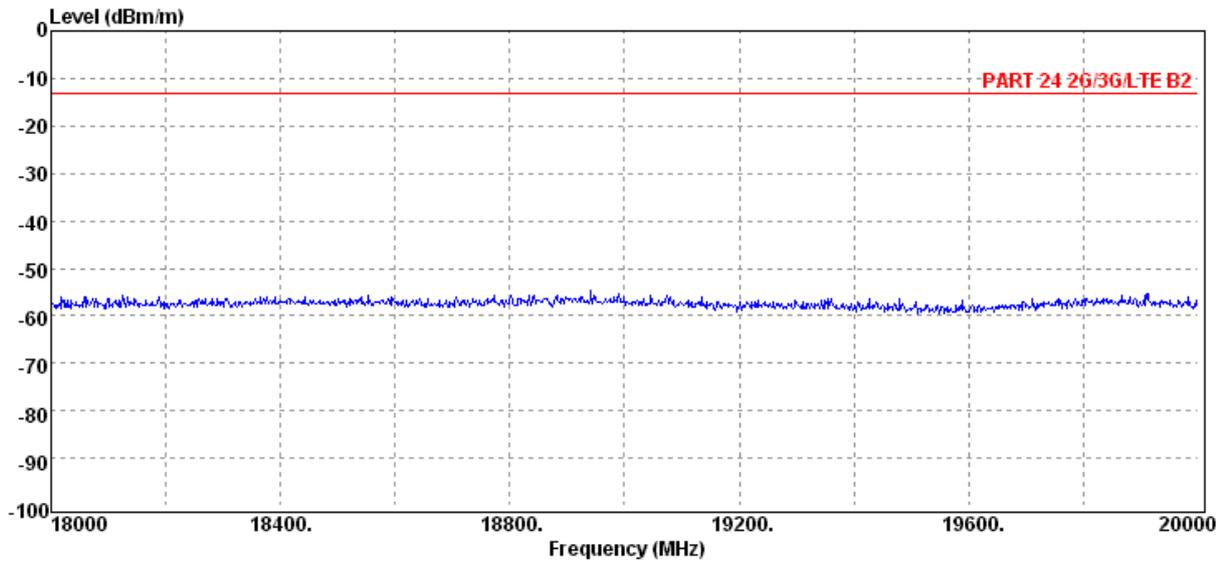
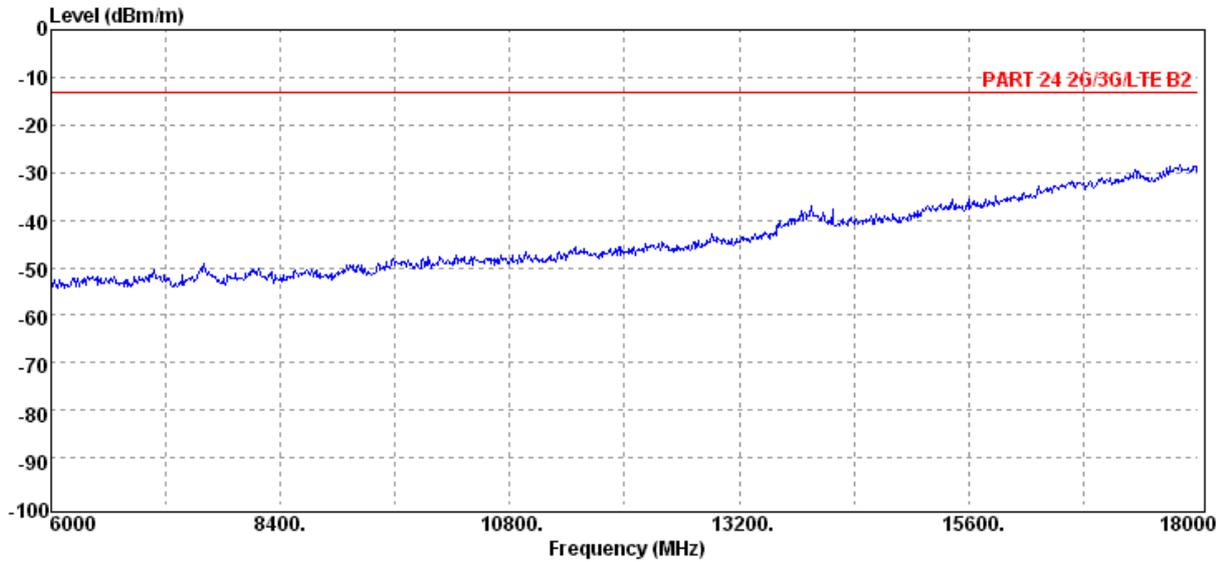
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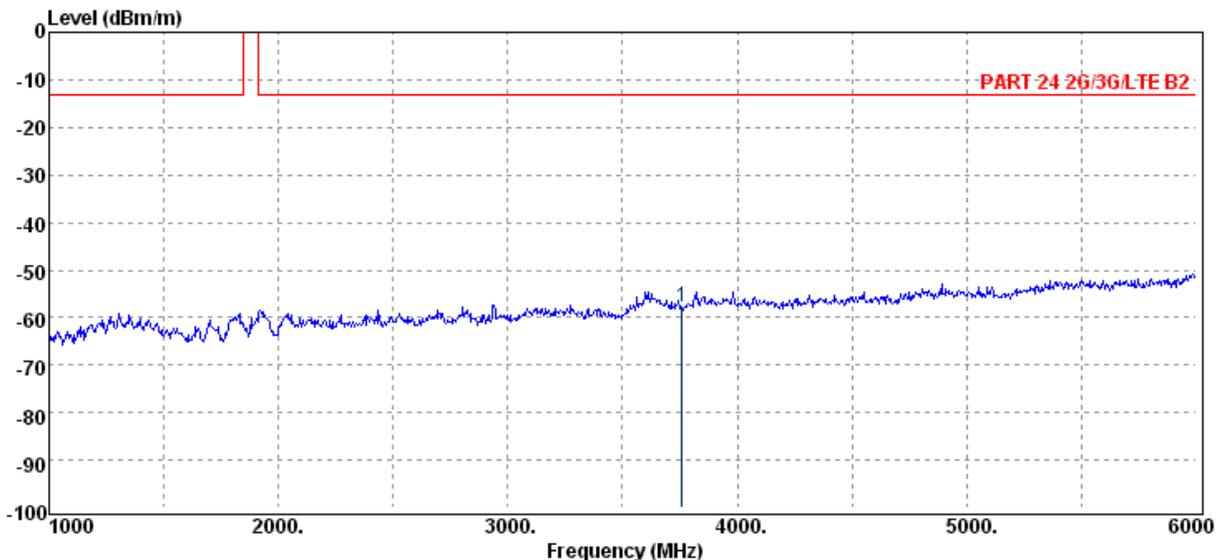
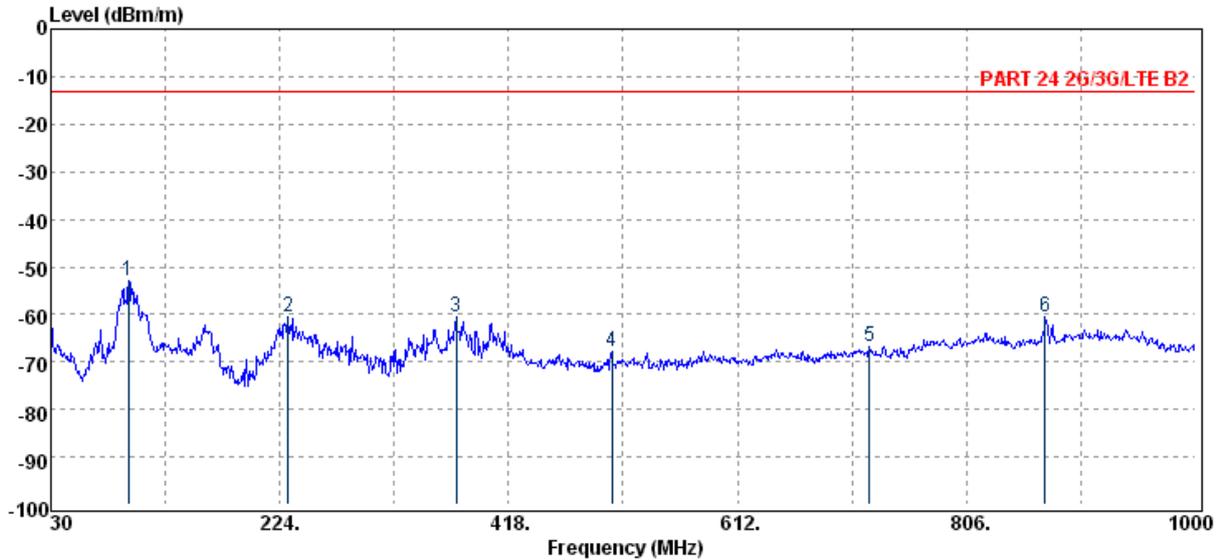
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9400	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1880 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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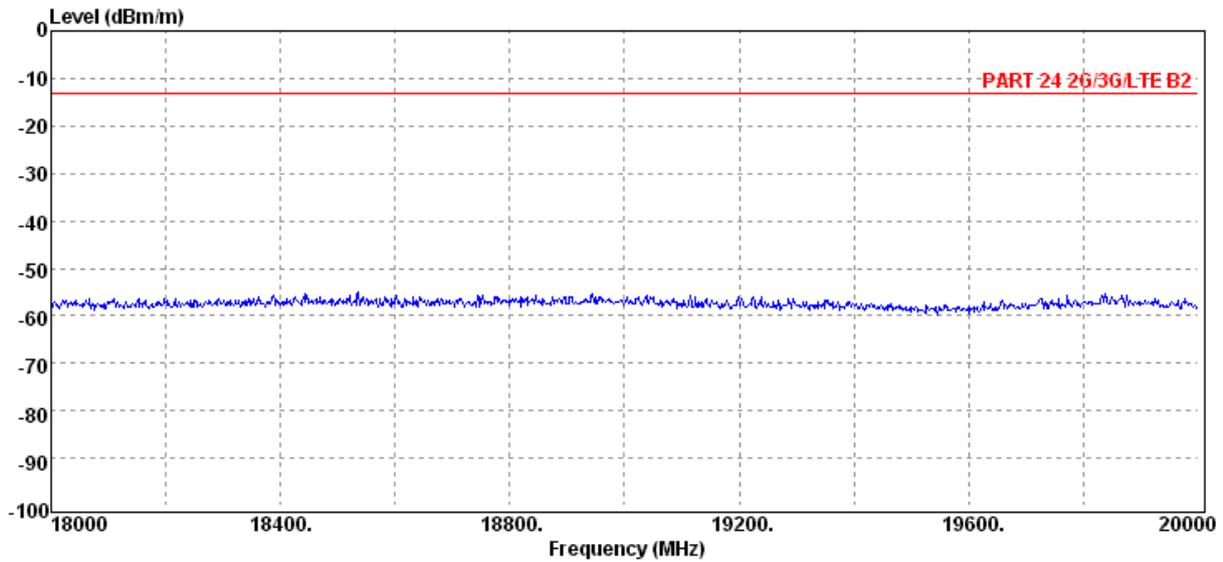
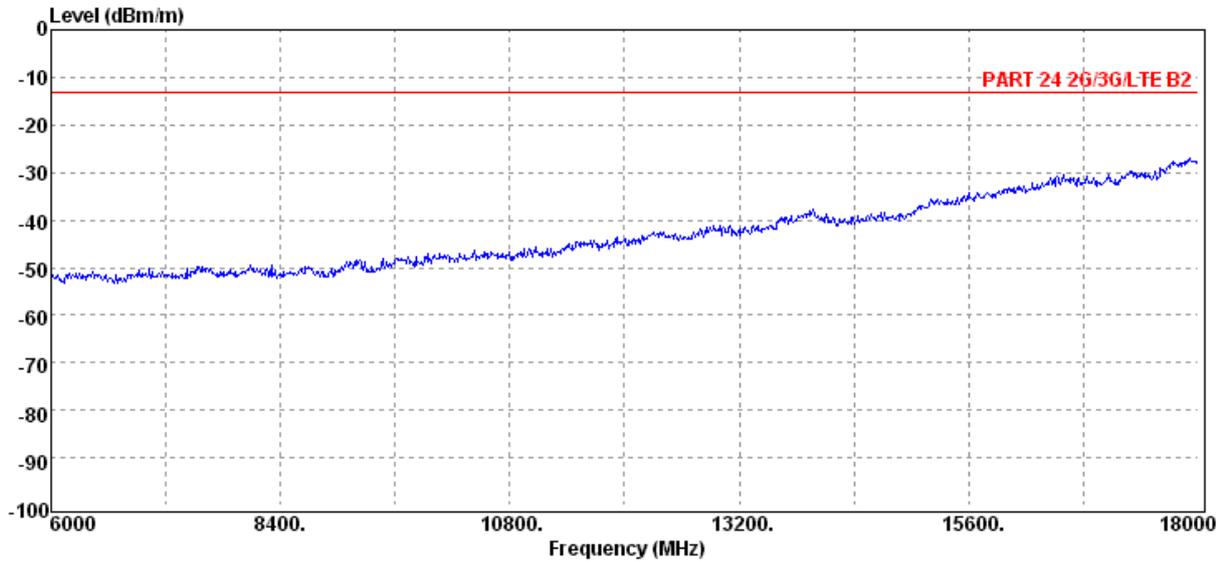
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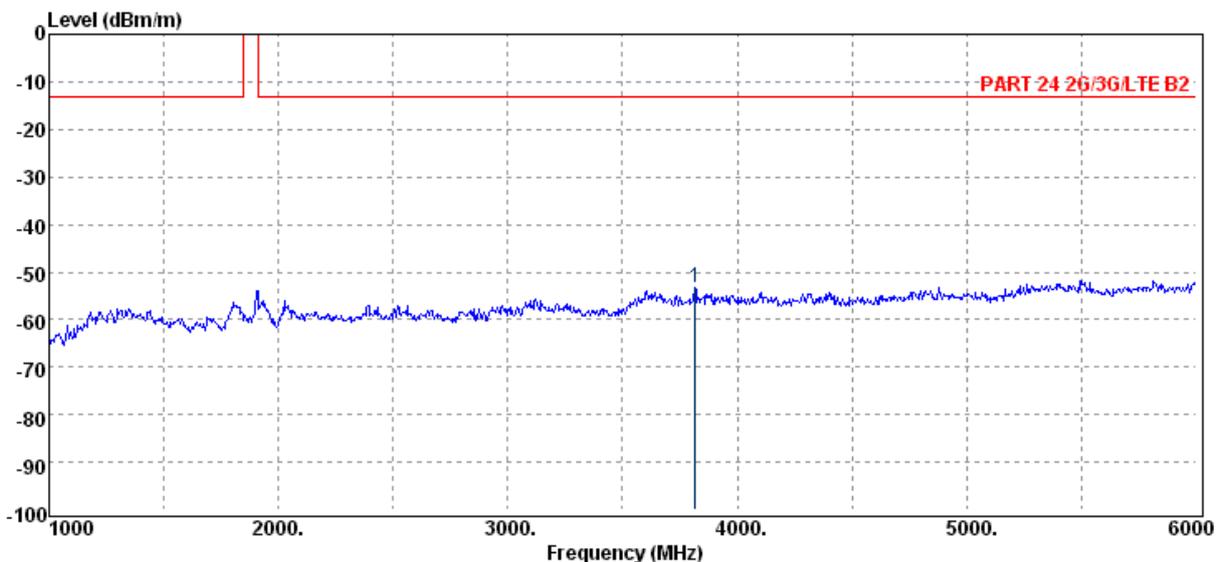
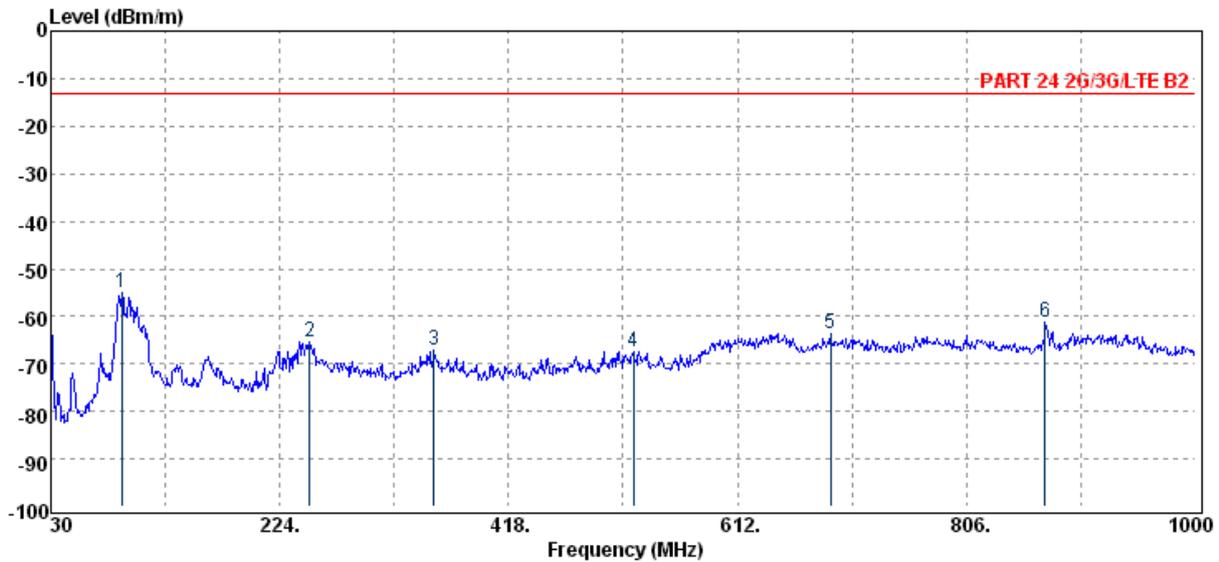
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9538	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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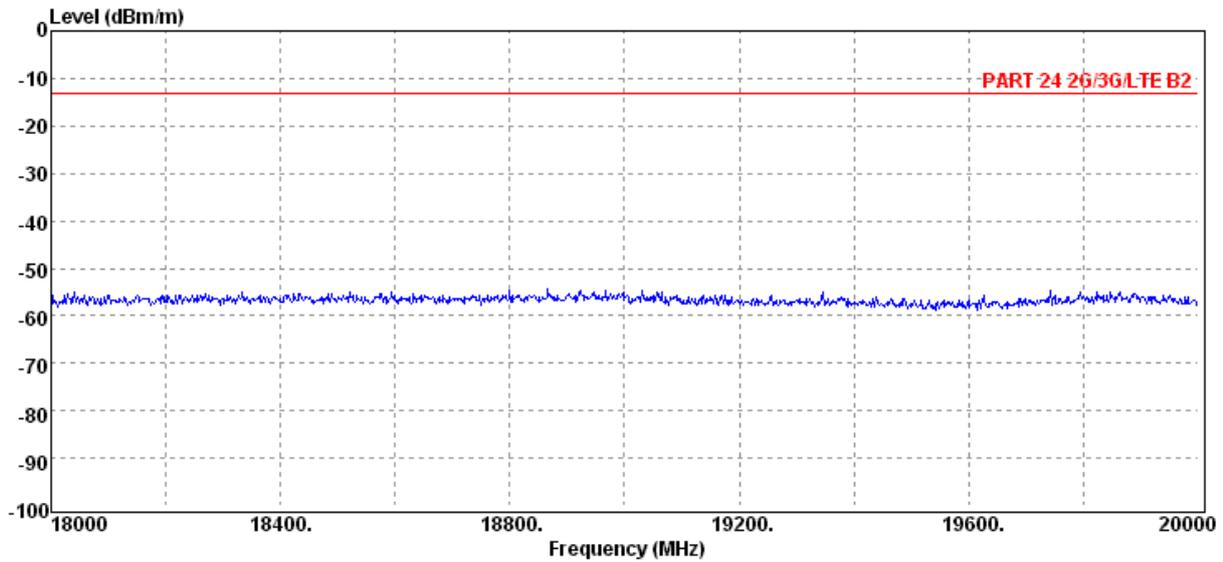
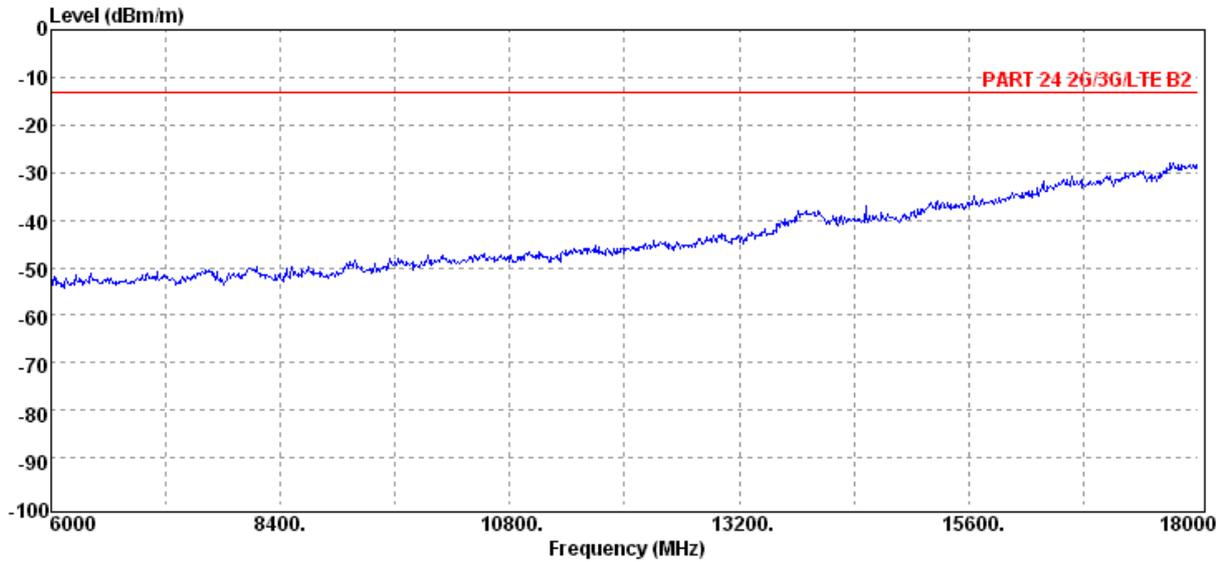
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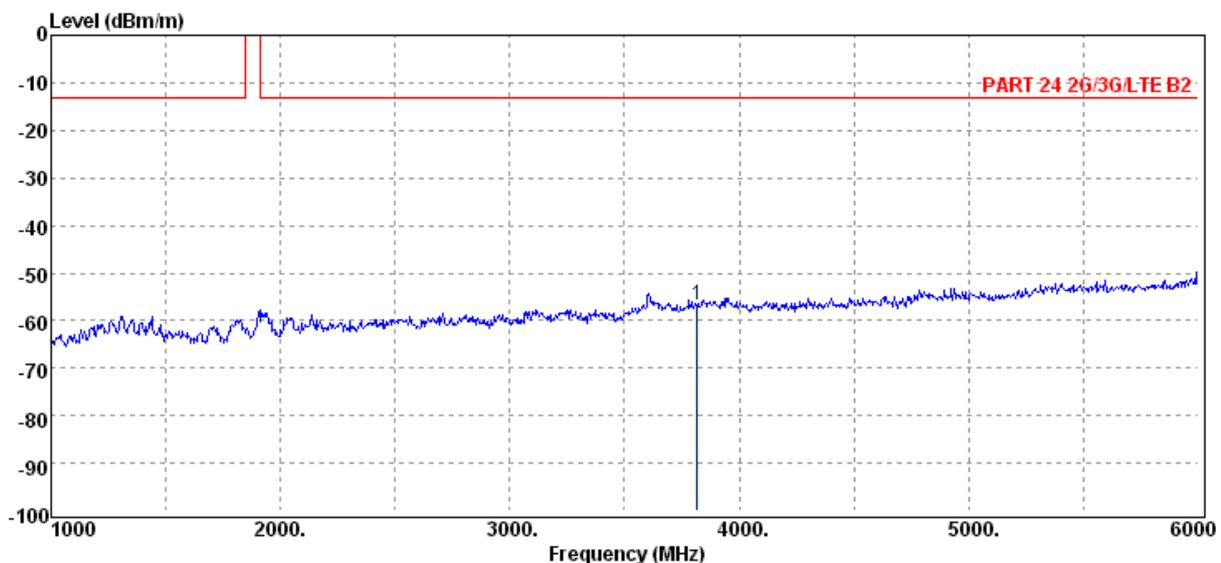
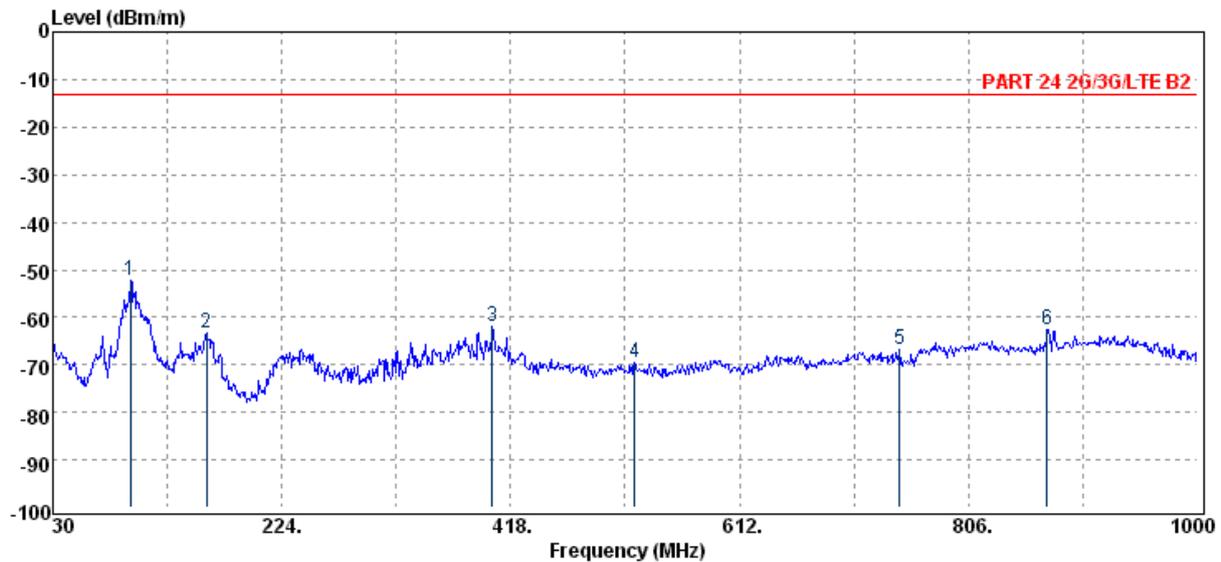
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
ARFCN	:CH 9538	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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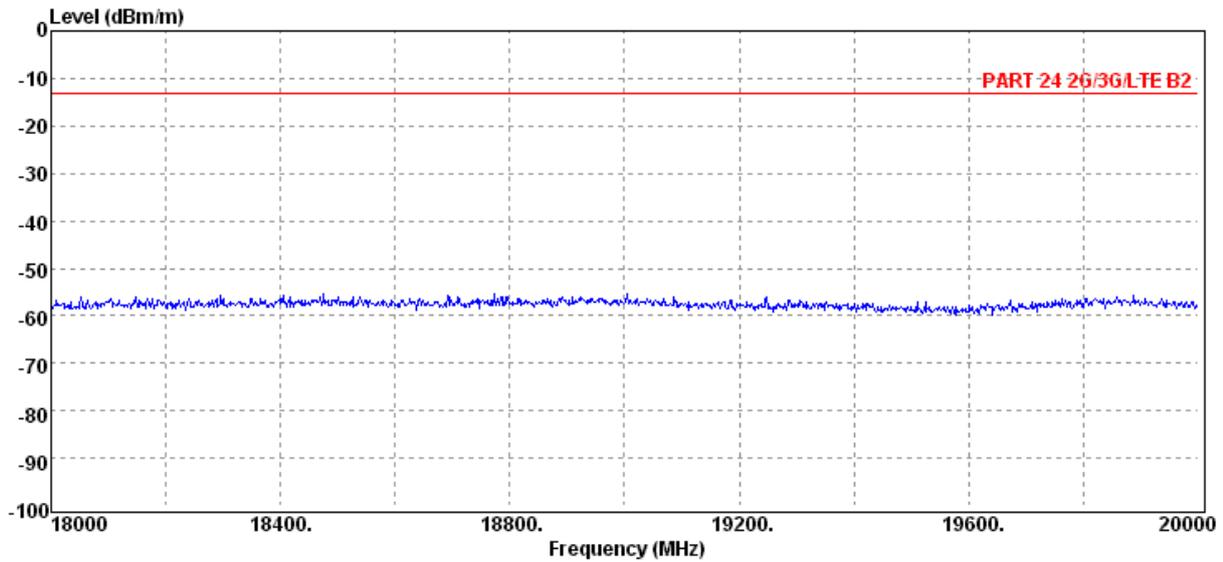
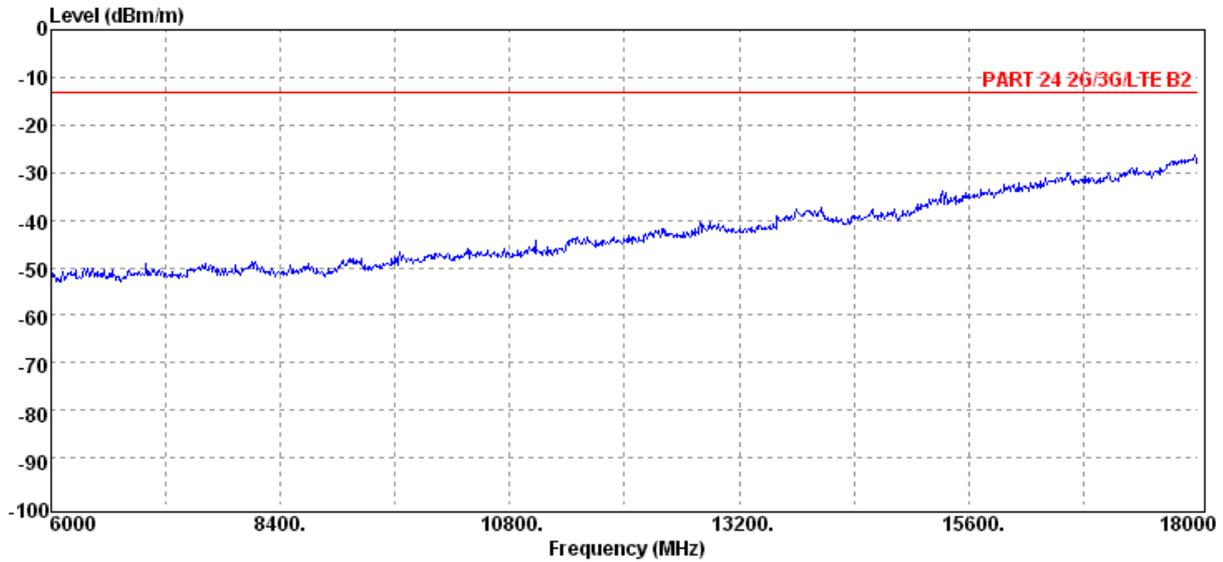
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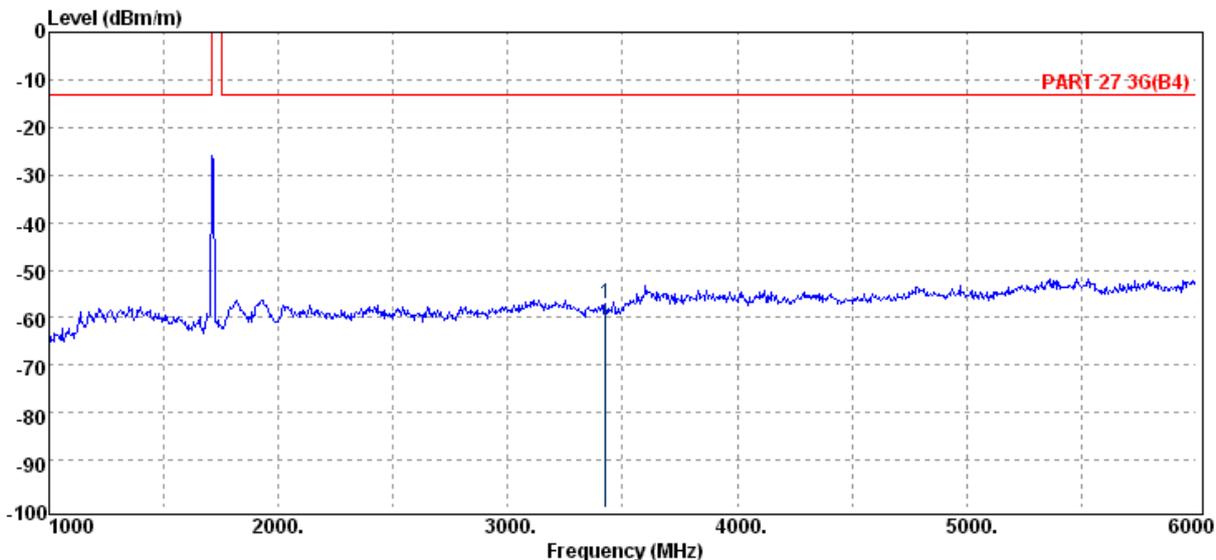
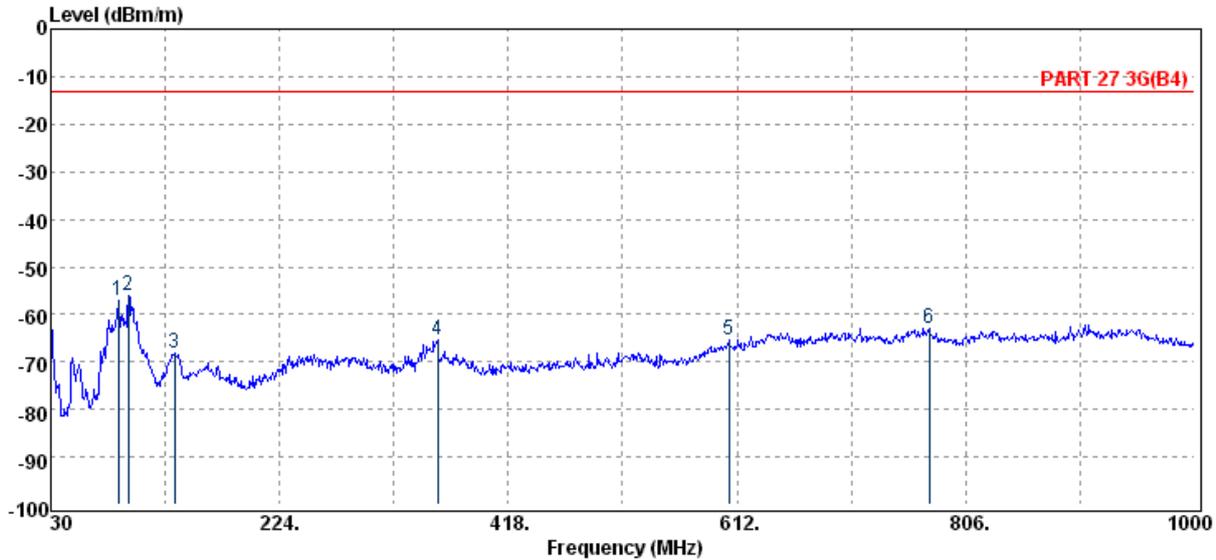
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**Radiated Spurious Emission Measurement Result: HSDPA IV Mode**

Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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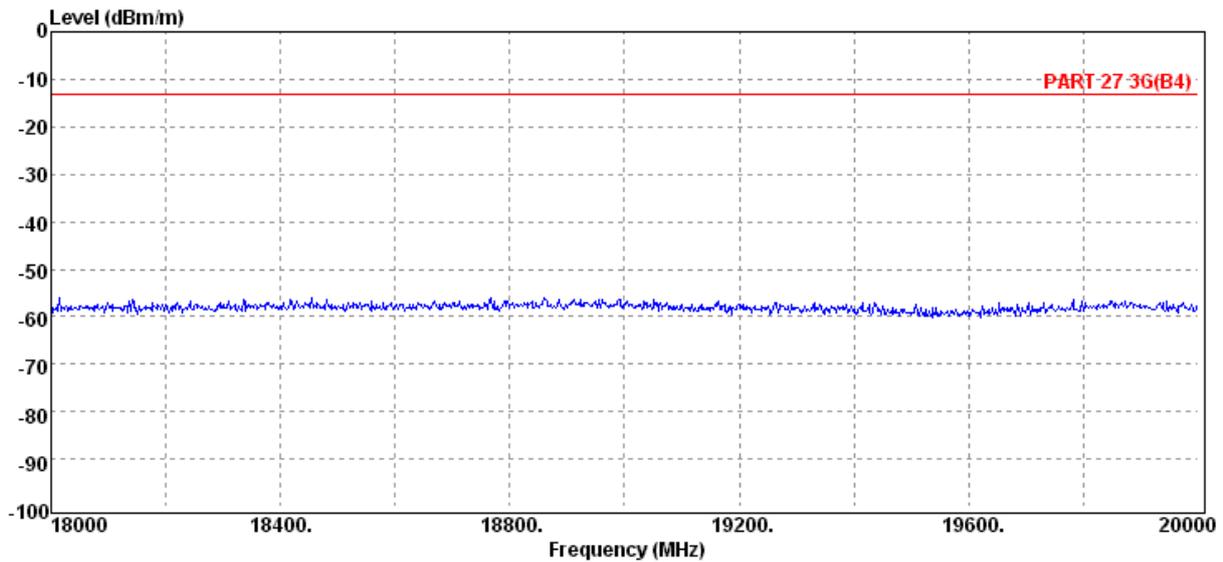
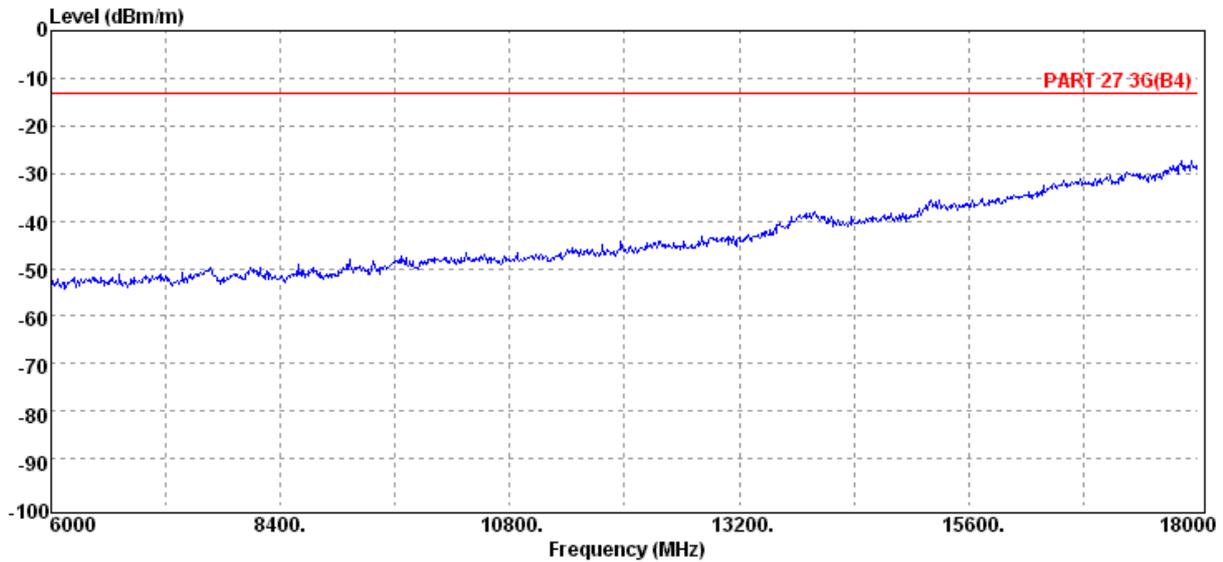
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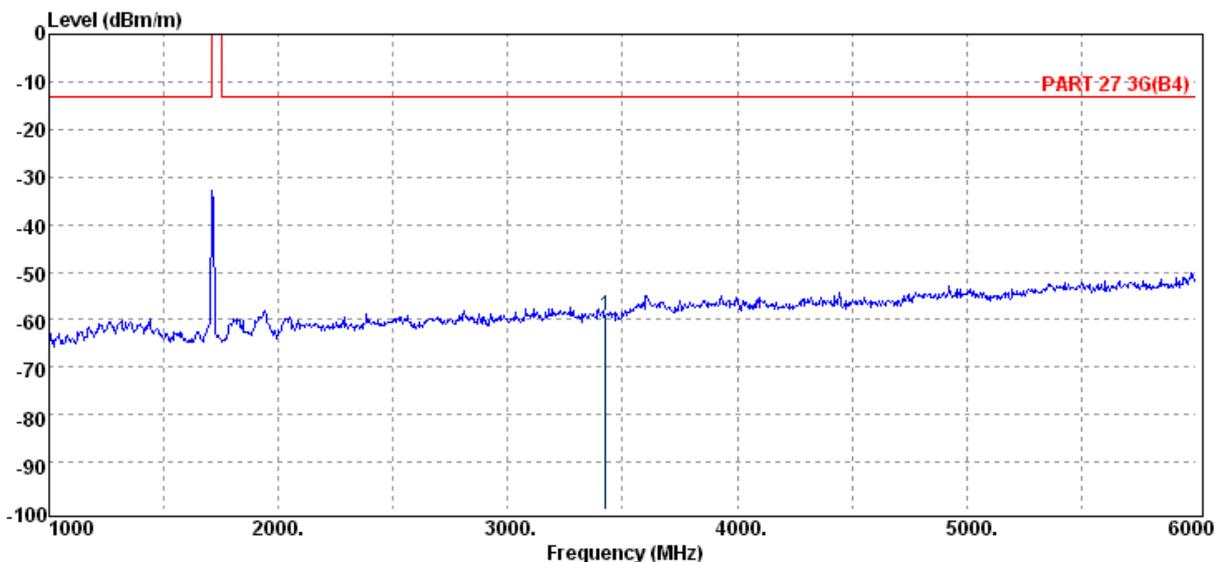
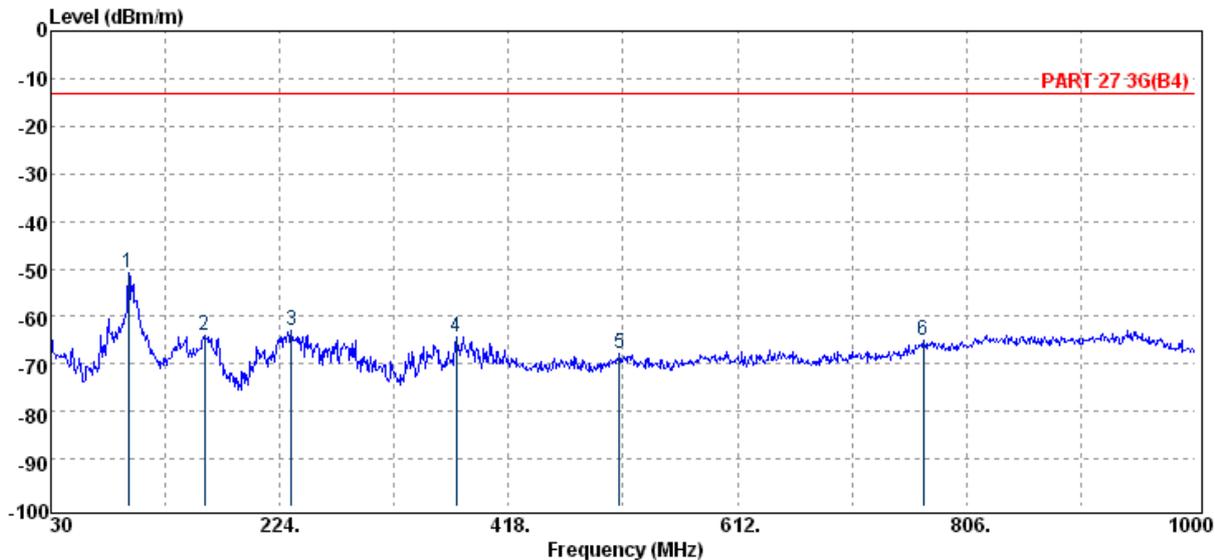
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1312	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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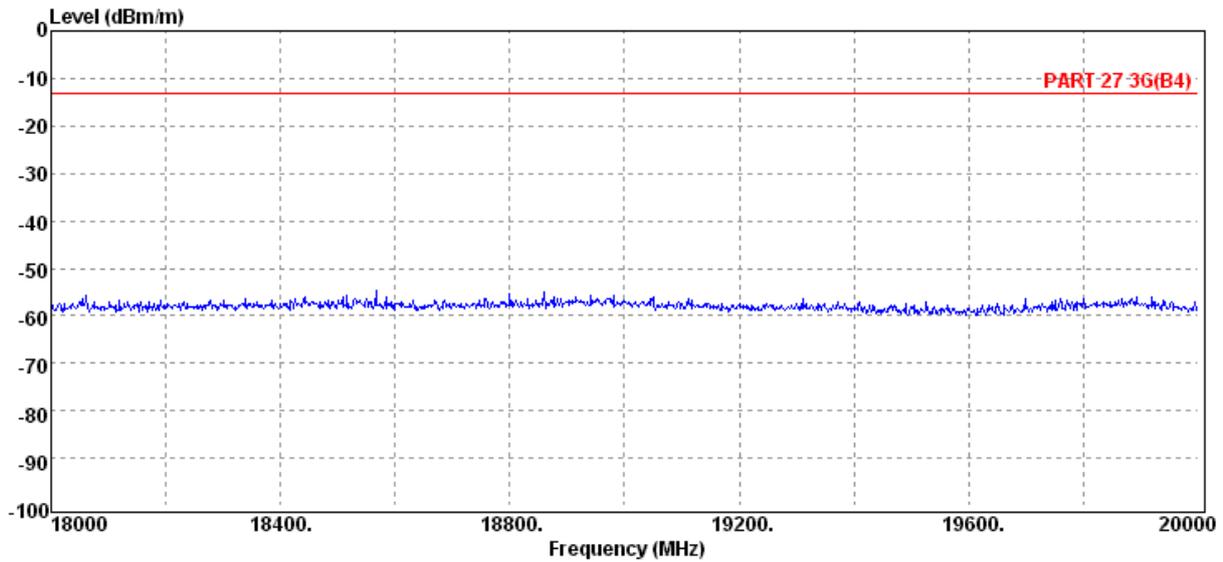
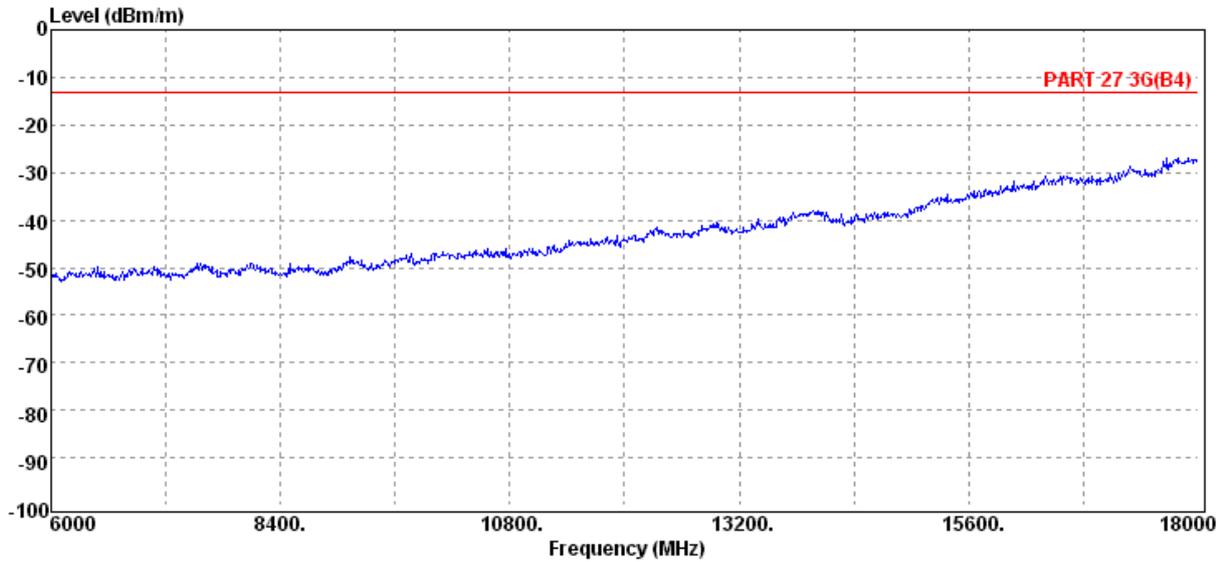
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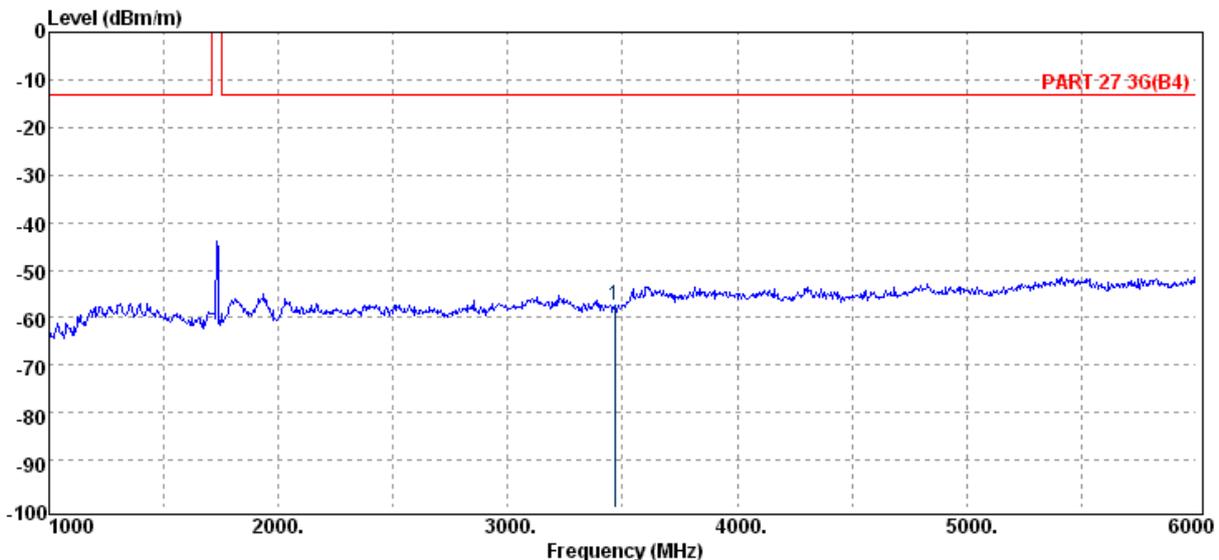
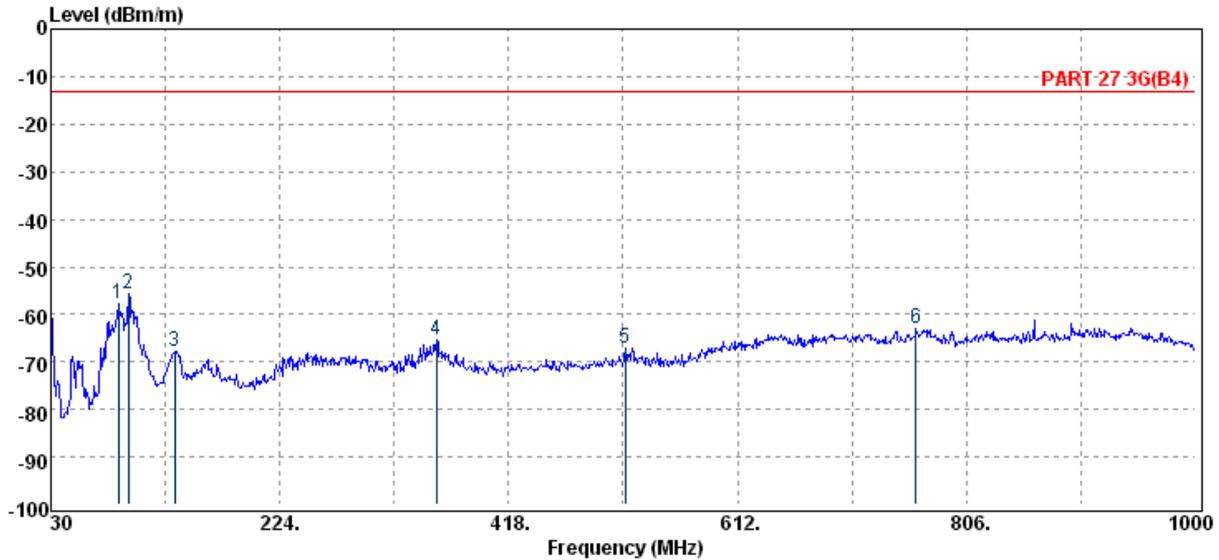
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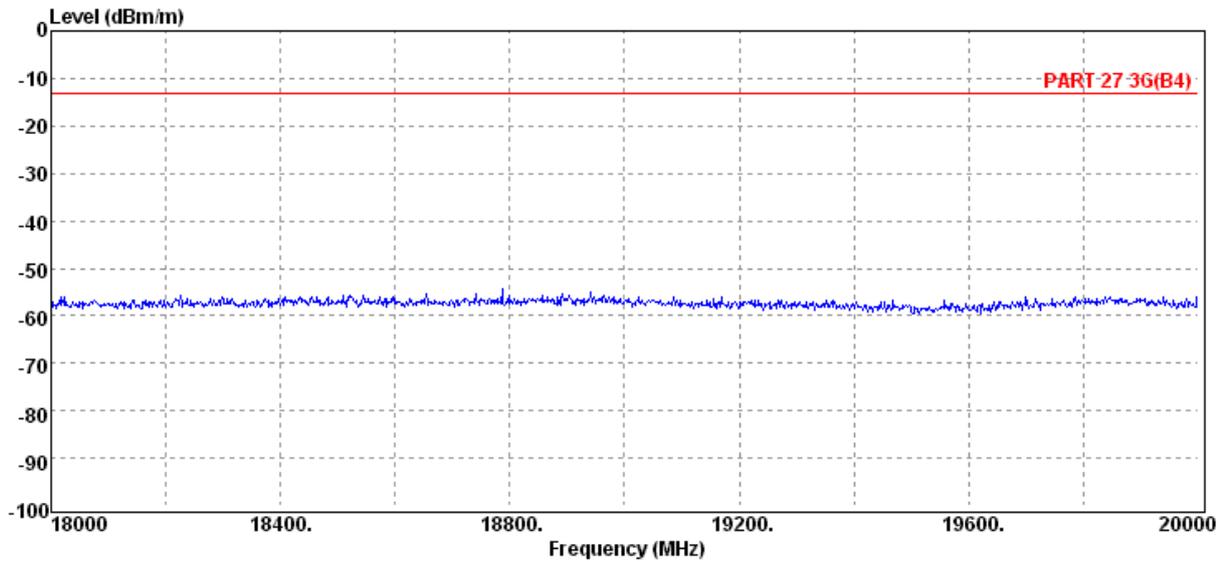
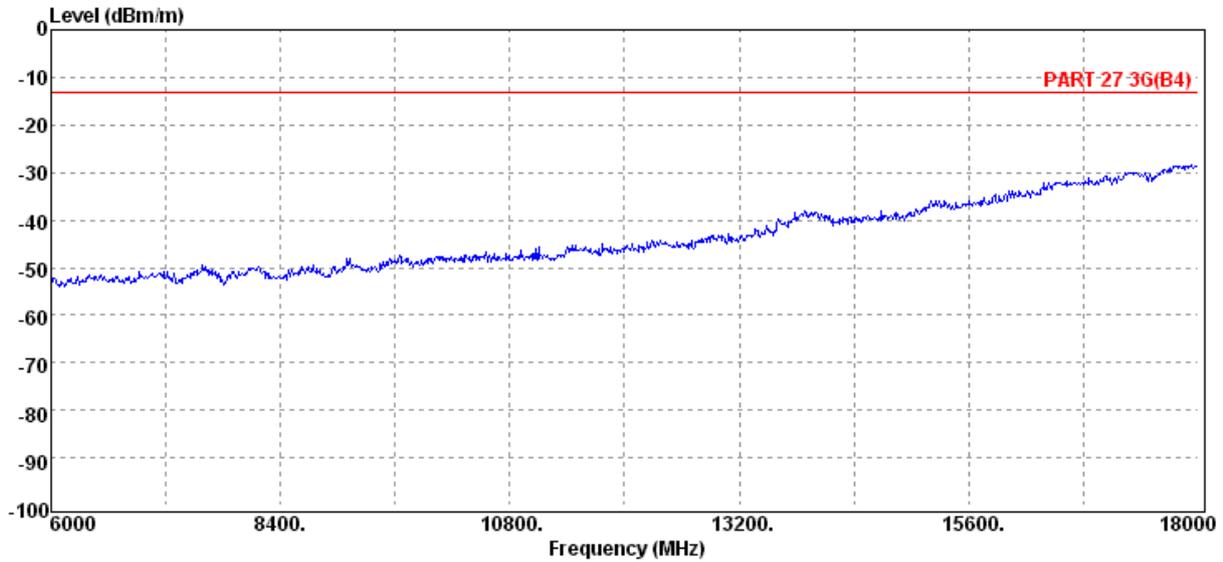
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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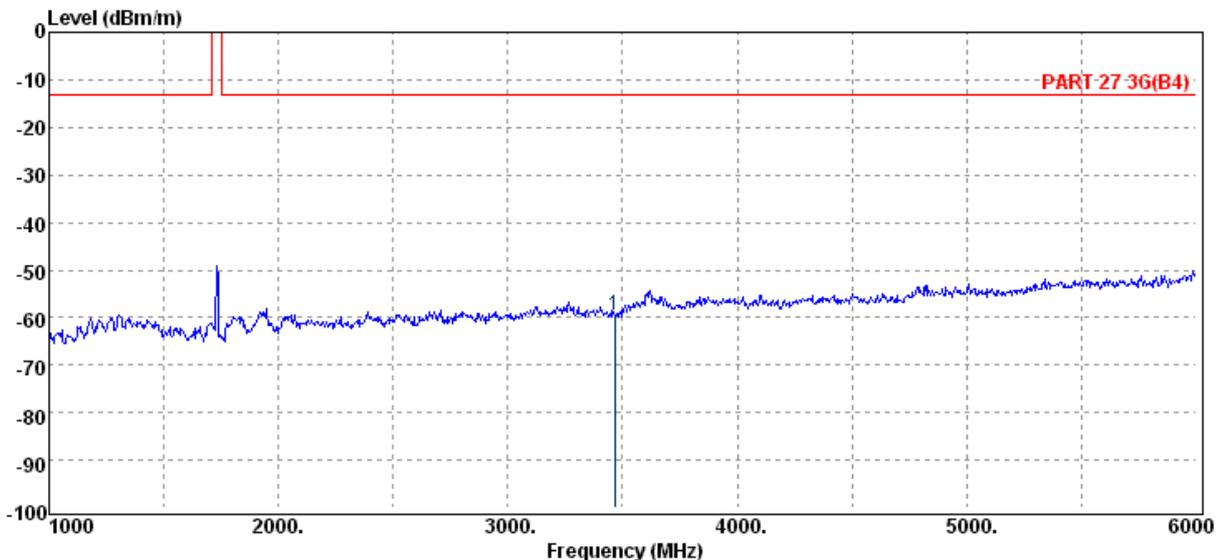
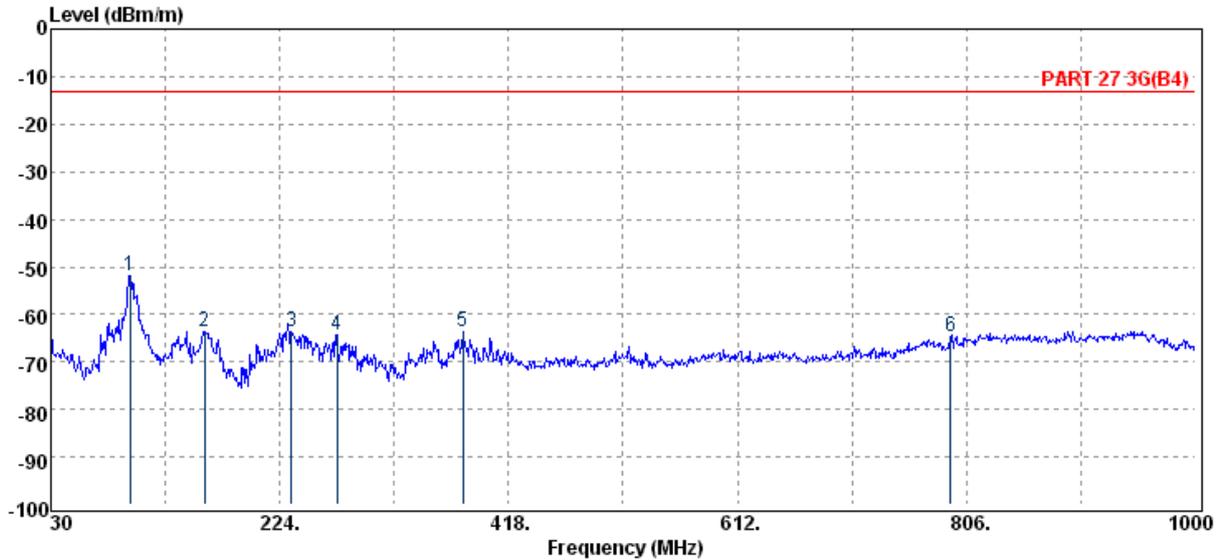
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1413	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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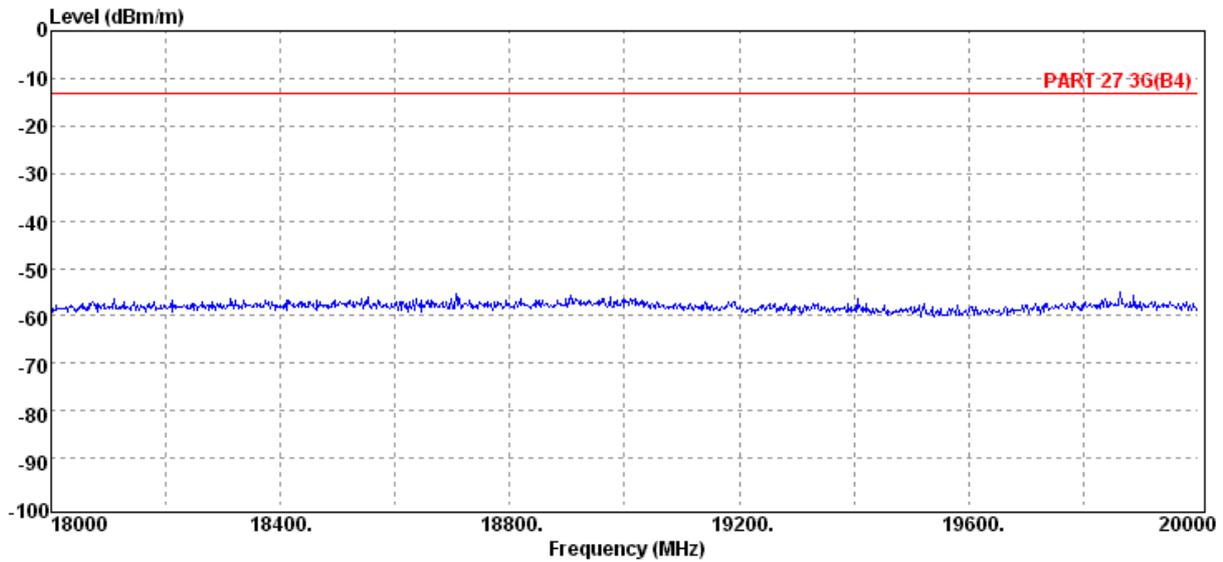
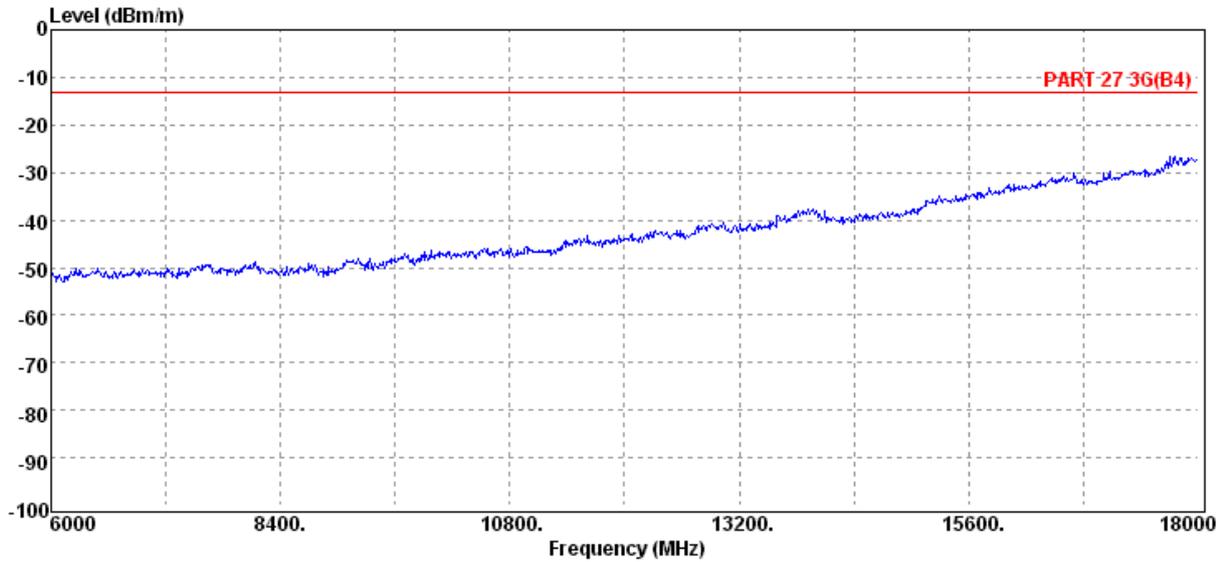
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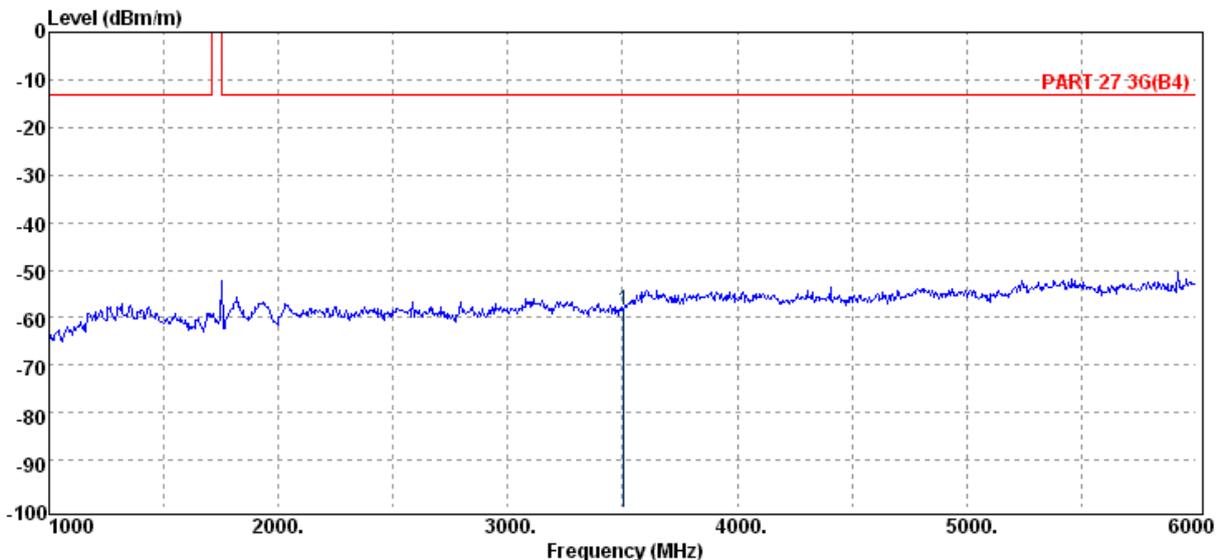
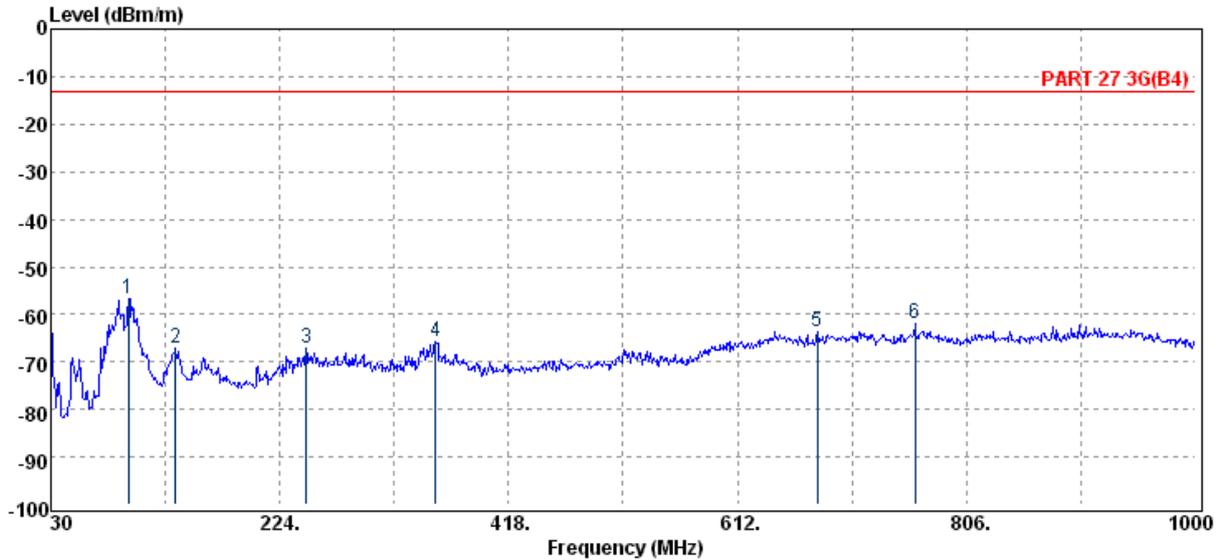
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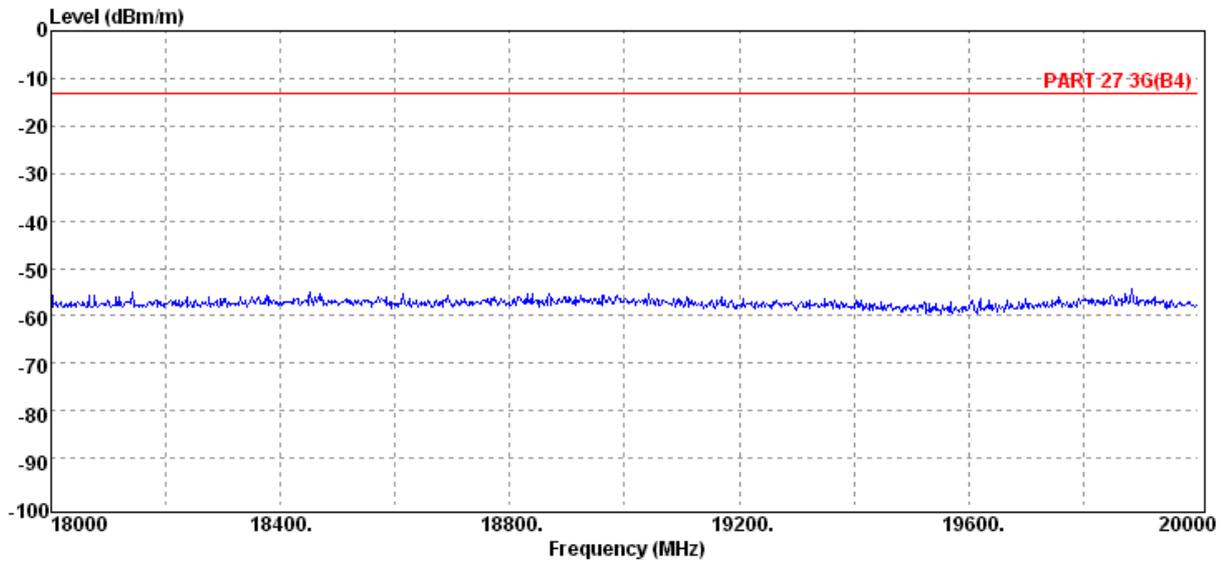
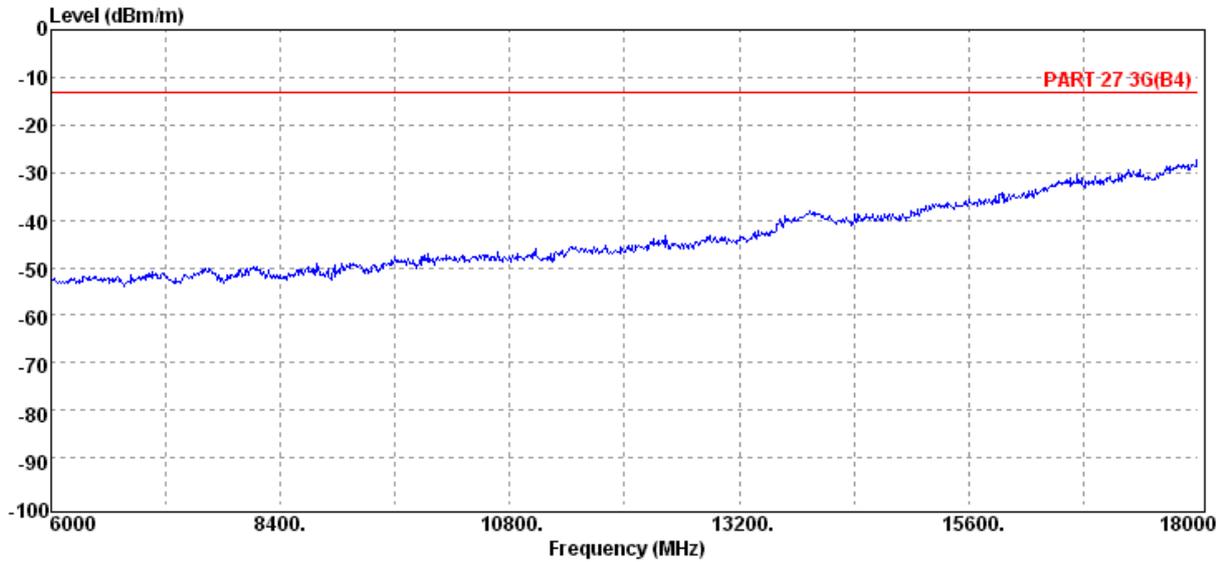
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1513	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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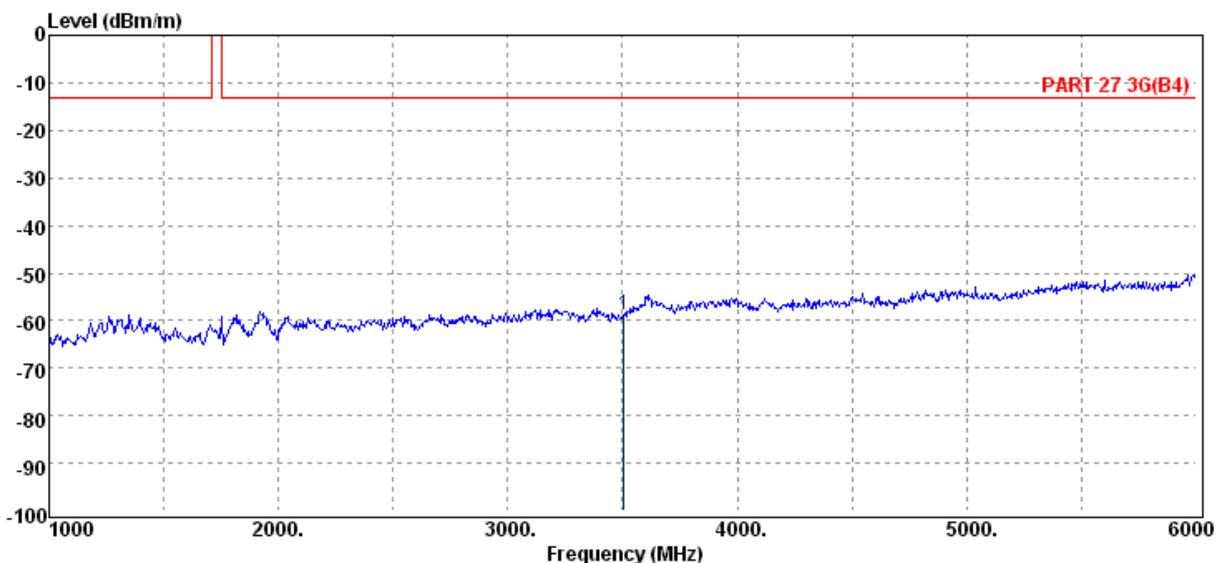
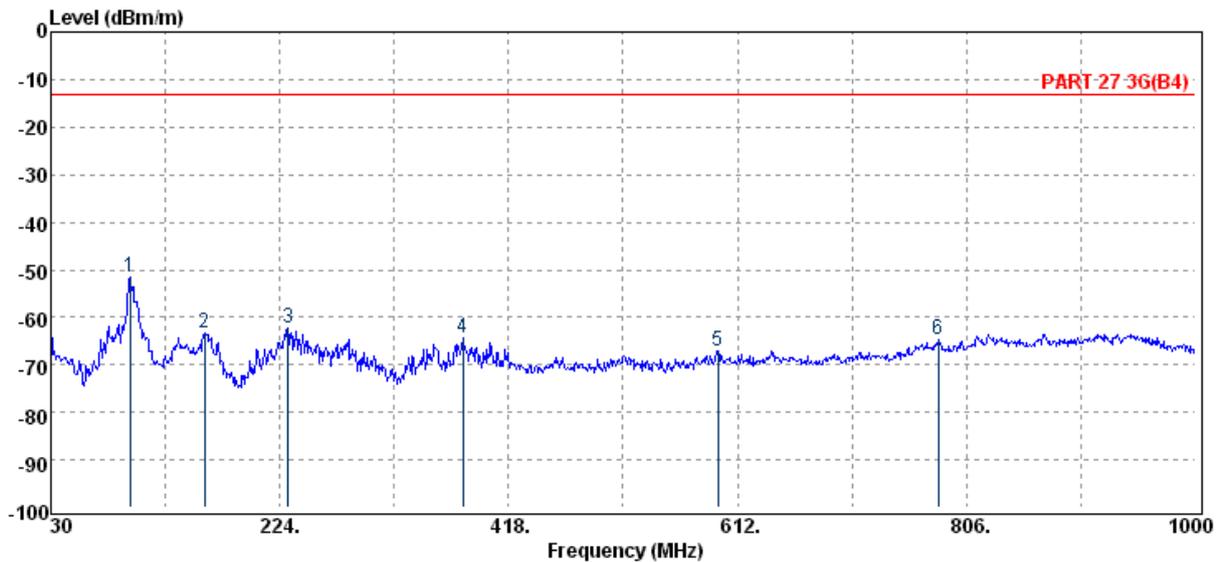
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
ARFCN	:CH 1513	Temp./Humi.	:19.6 deg_C / 65 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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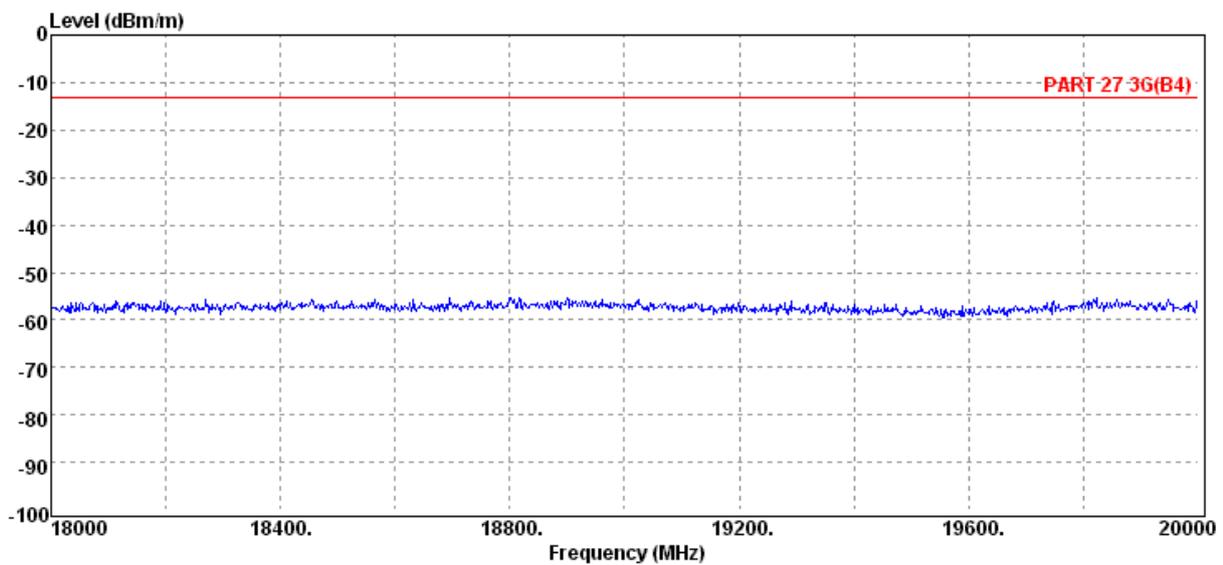
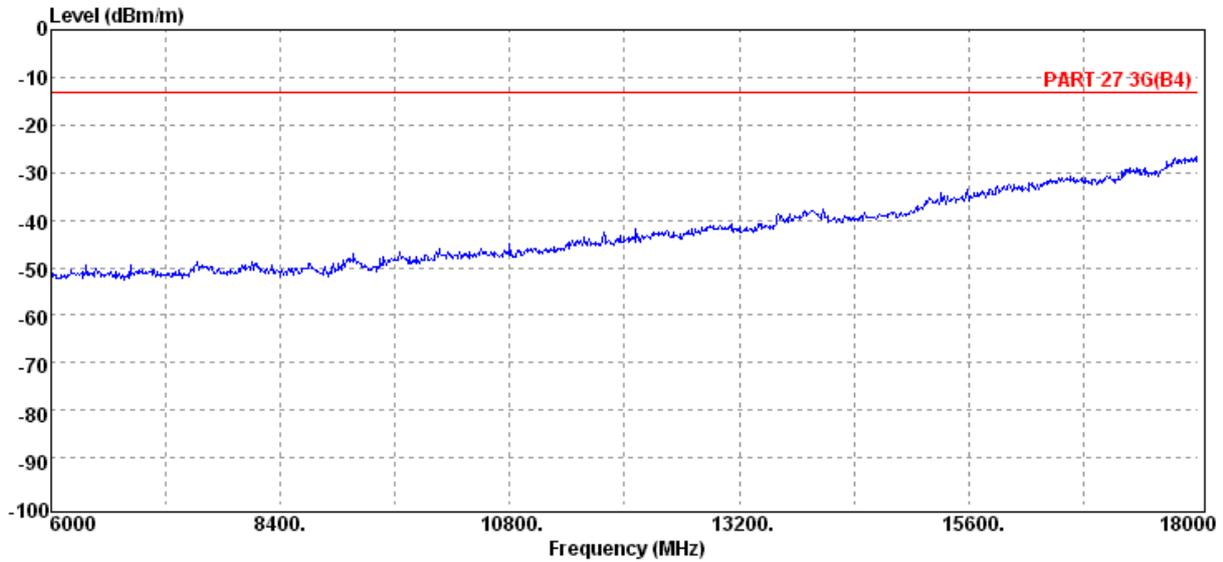
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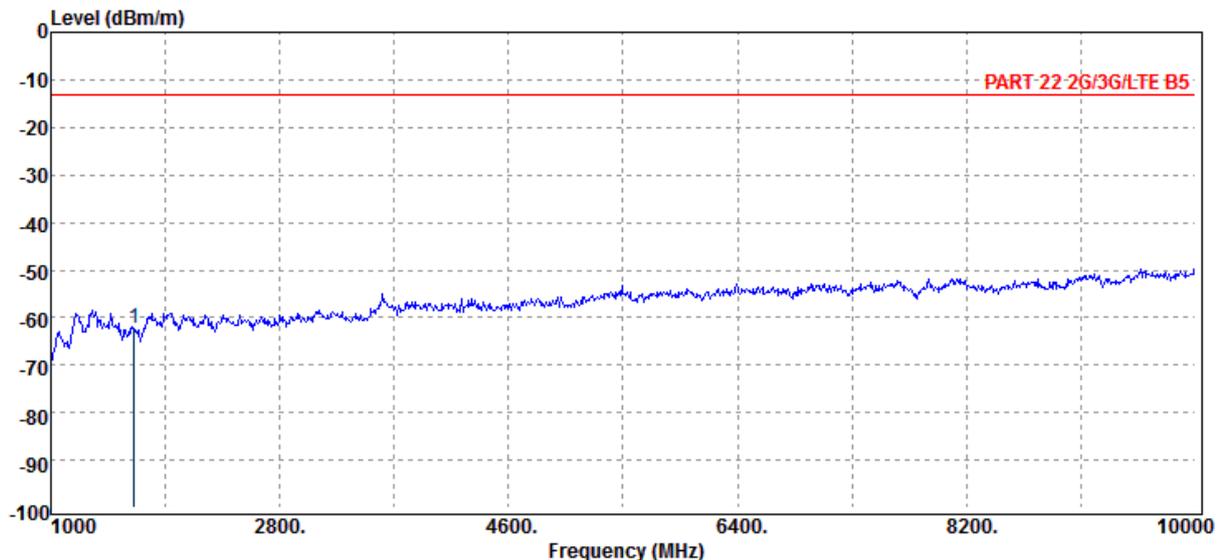
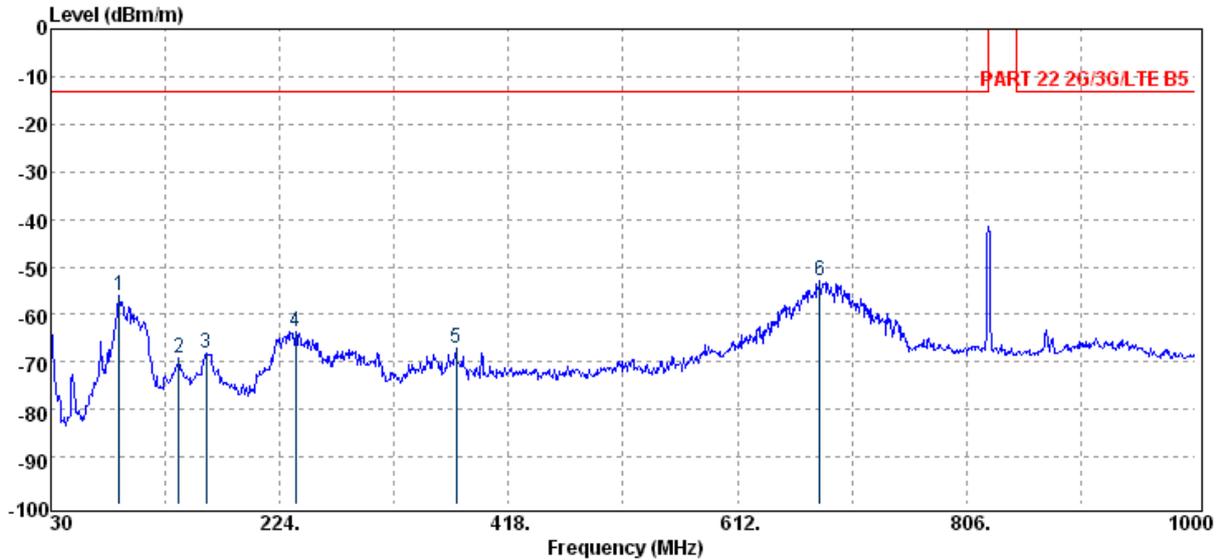
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**Radiated Spurious Emission Measurement Result: HSDPA V Mode**

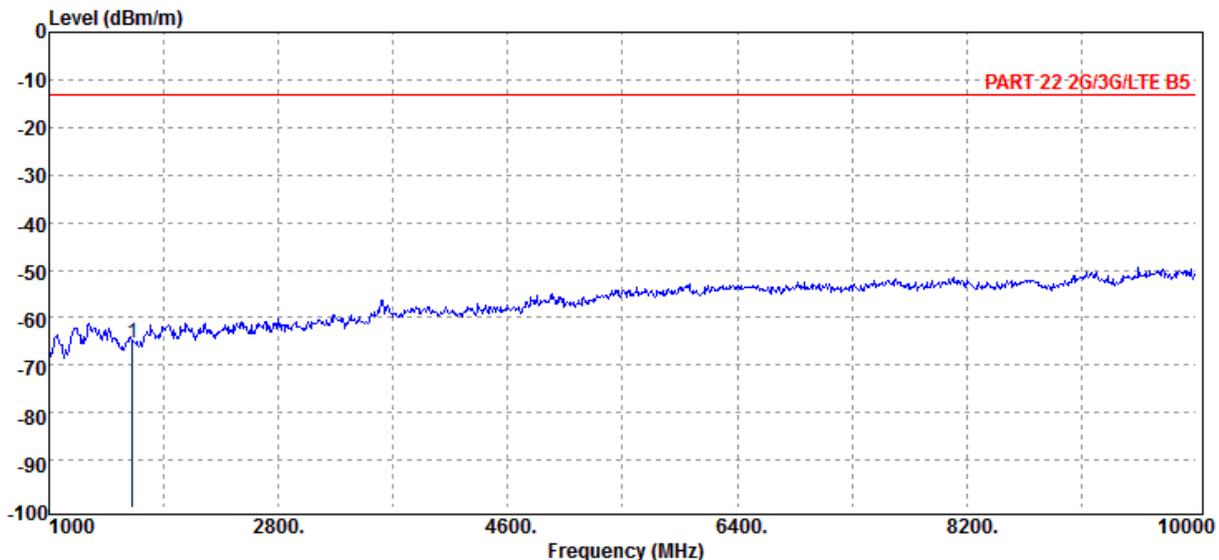
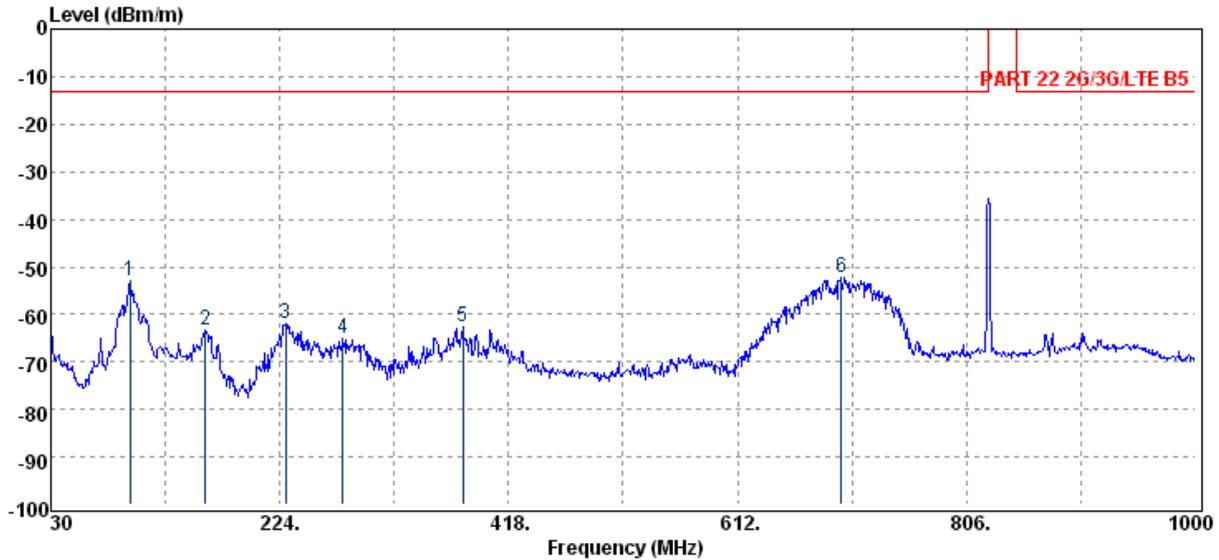
Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4132	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4132	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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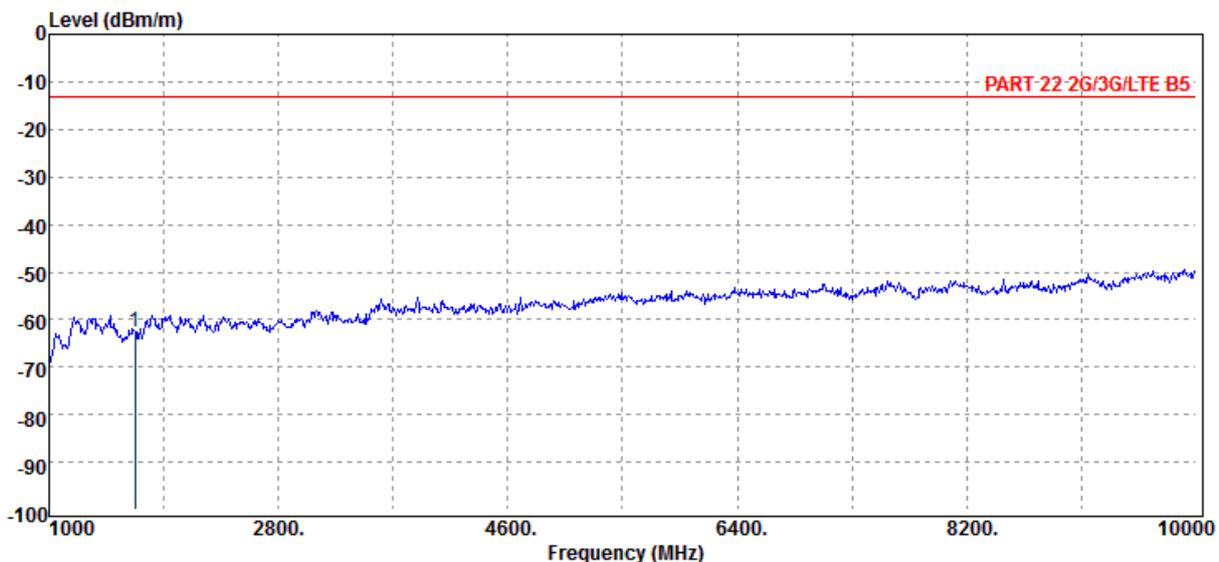
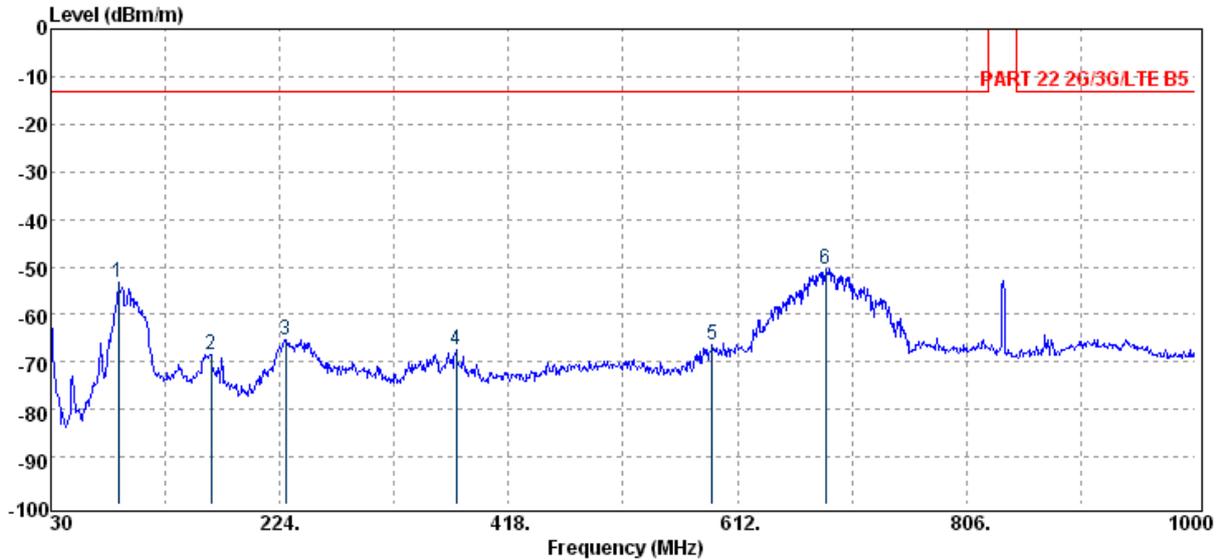
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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4183	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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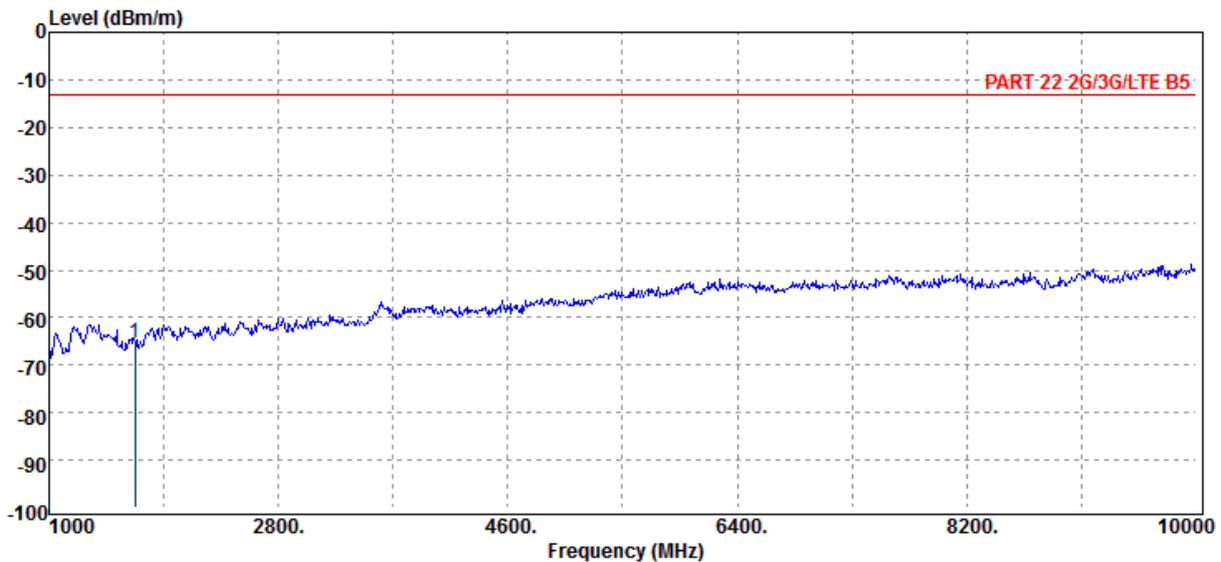
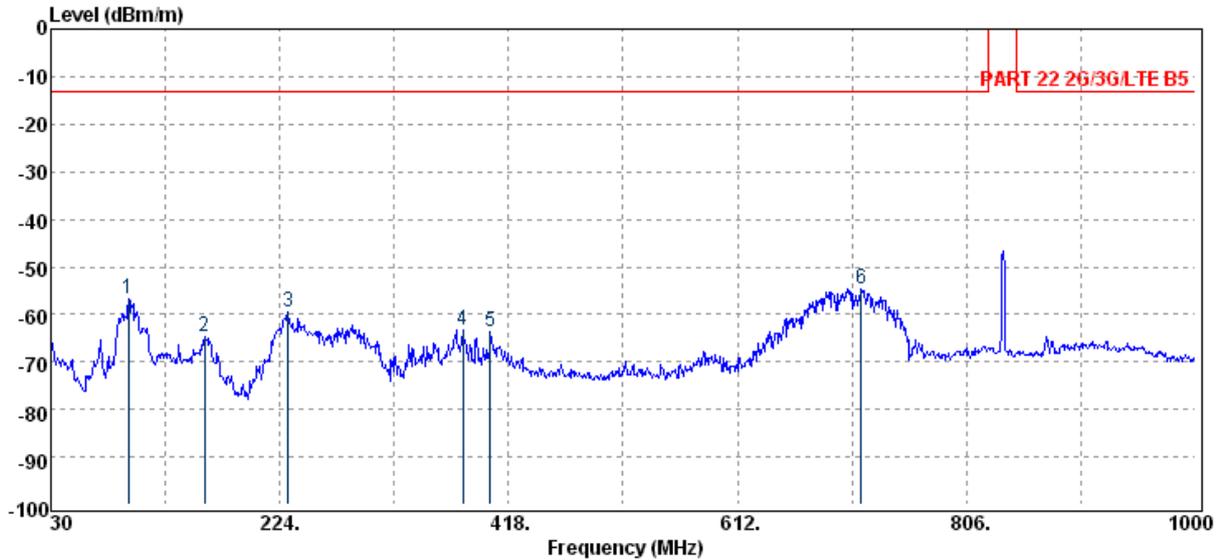
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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4183	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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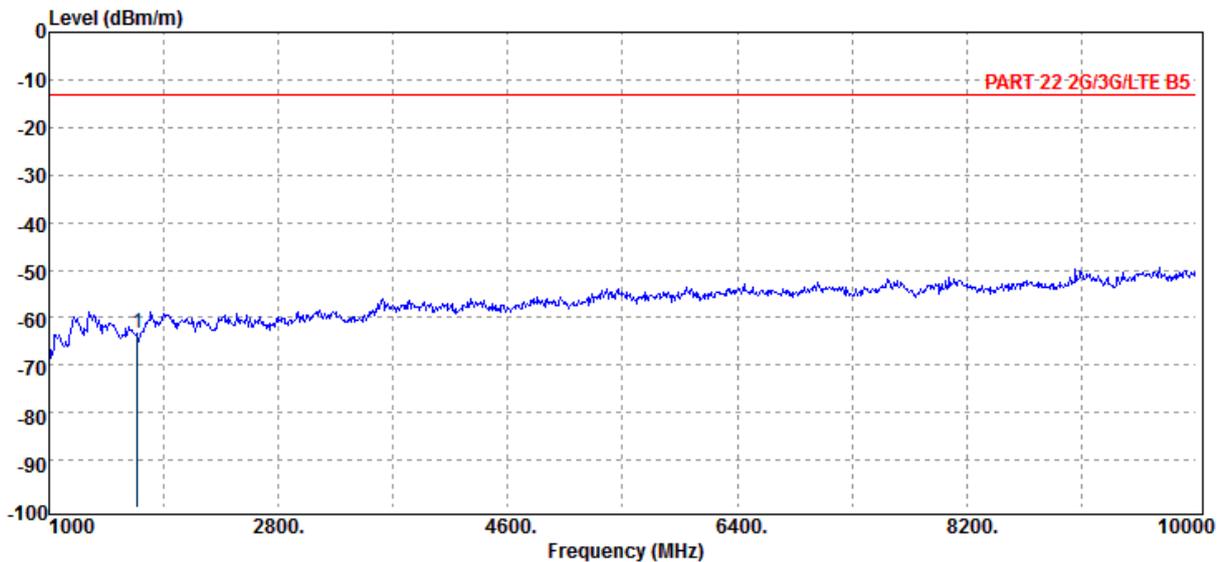
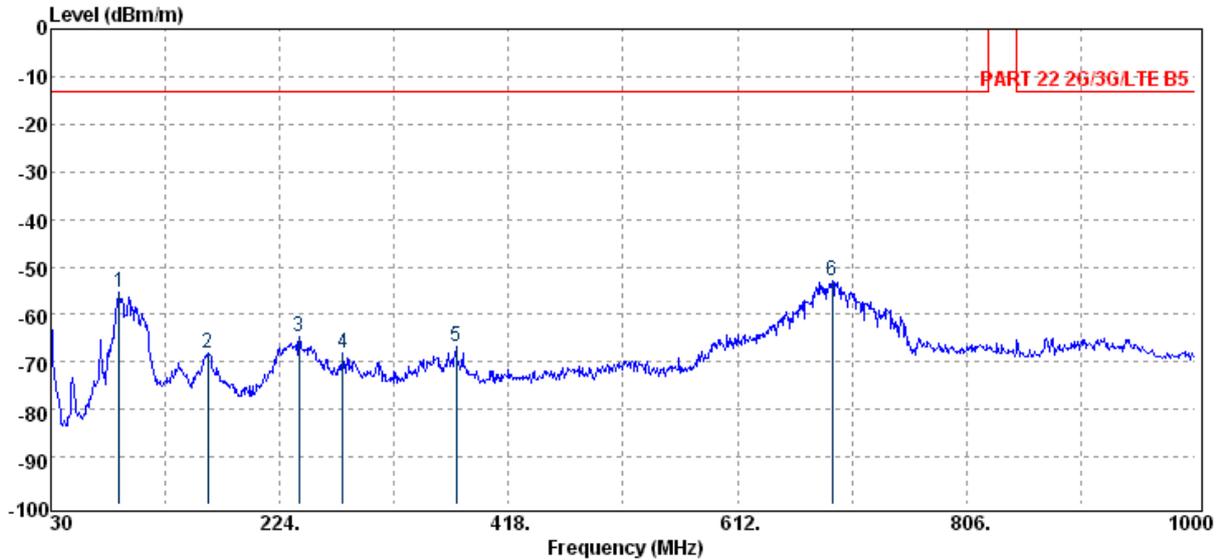
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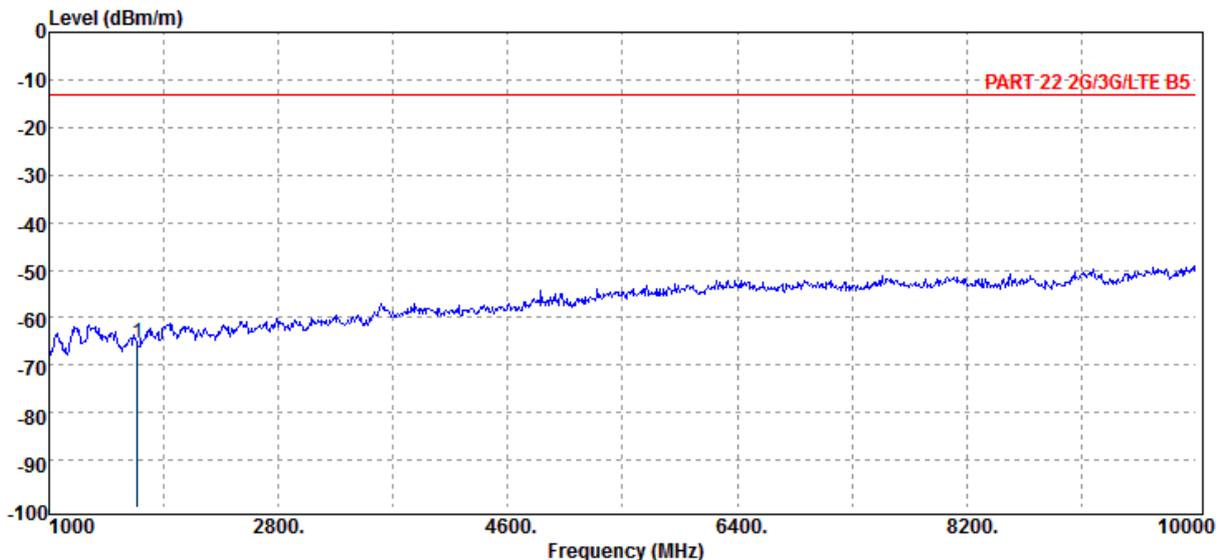
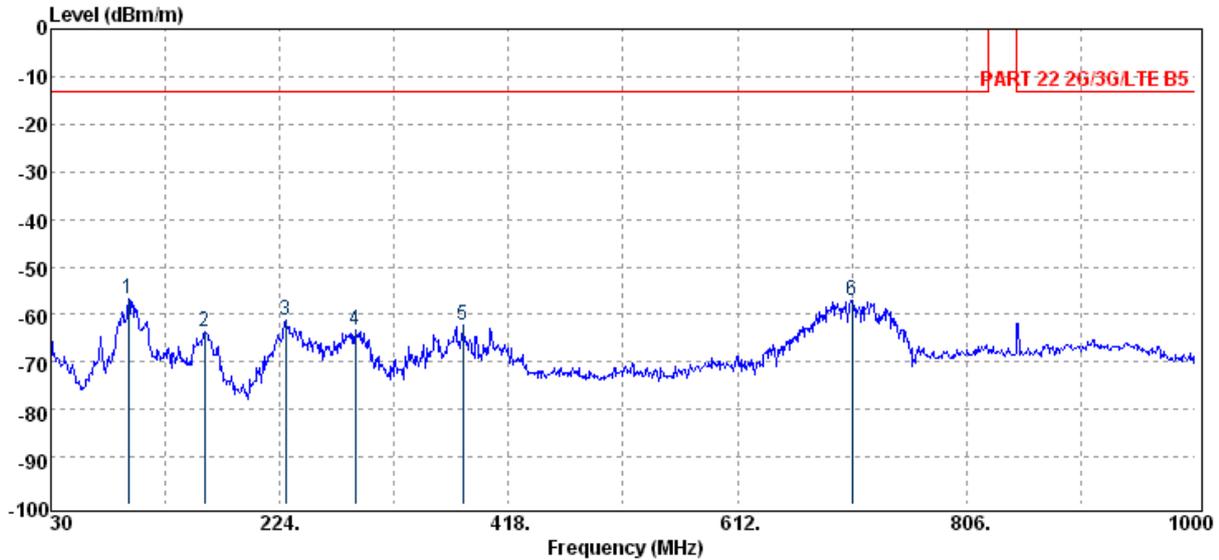
Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4233	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Band	:HSDPA B5	Test Date	:2014-03-01
ARFCN	:CH 4233	Temp./Humi.	:23.4 deg_C / 66 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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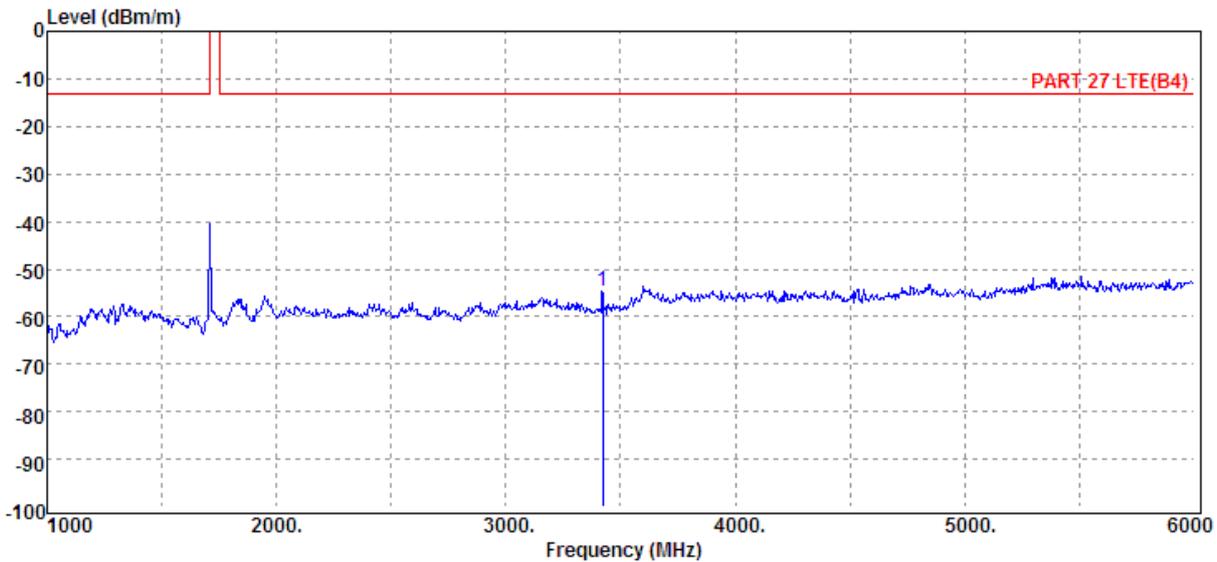
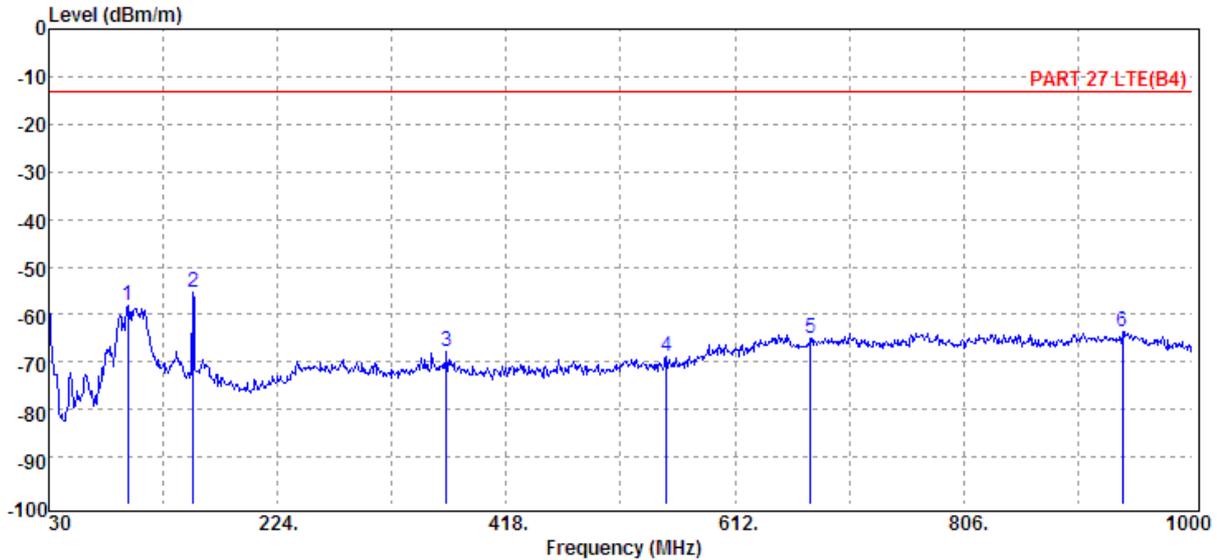
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**Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4(The Worst Case)**

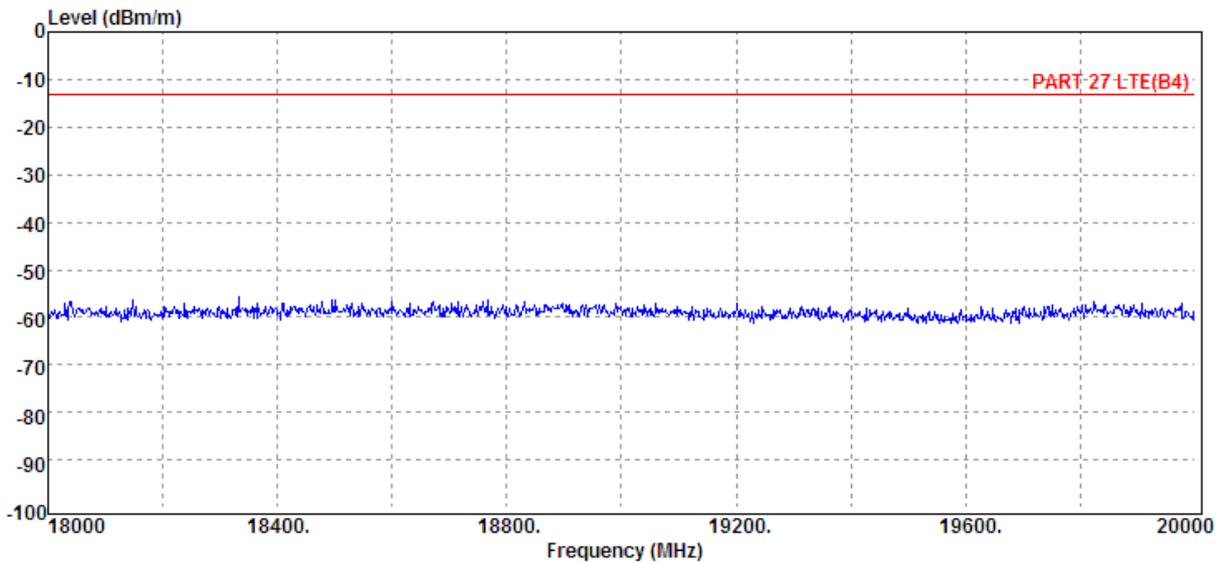
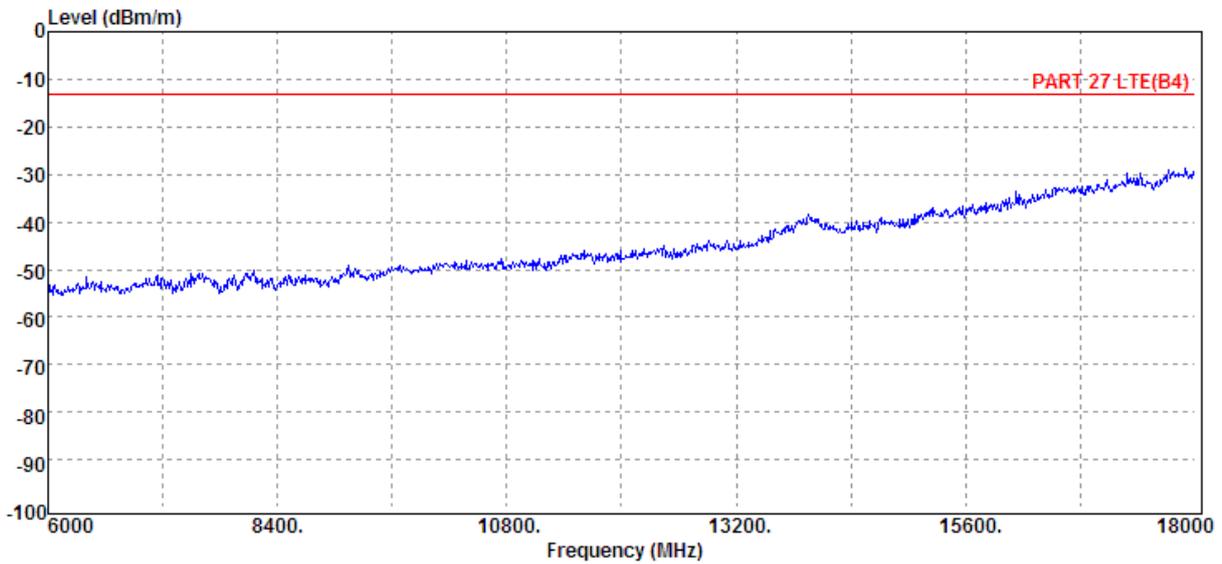
Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 19957 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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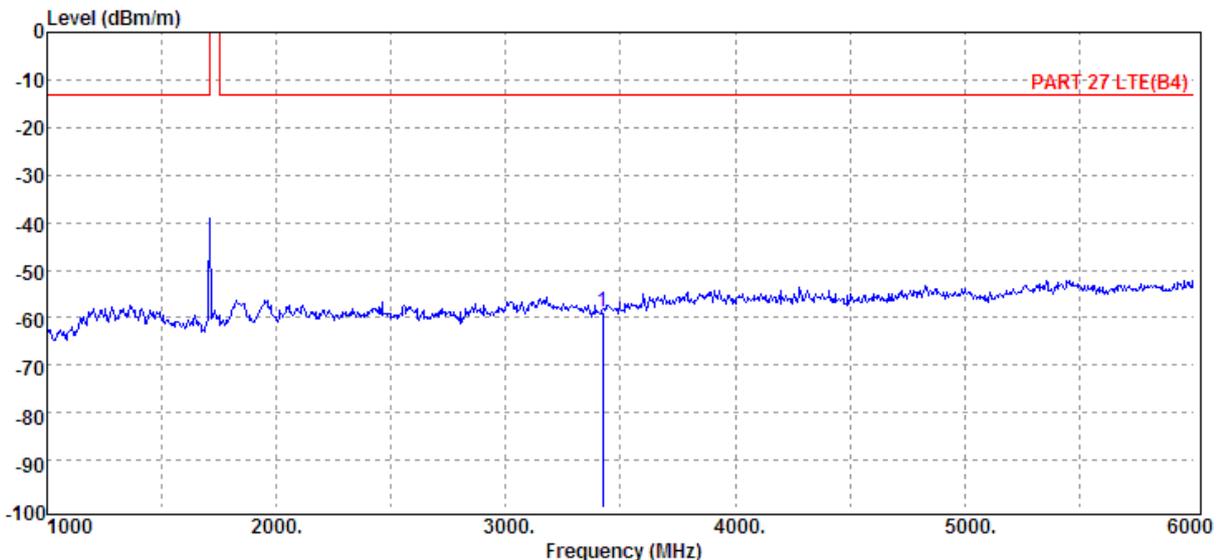
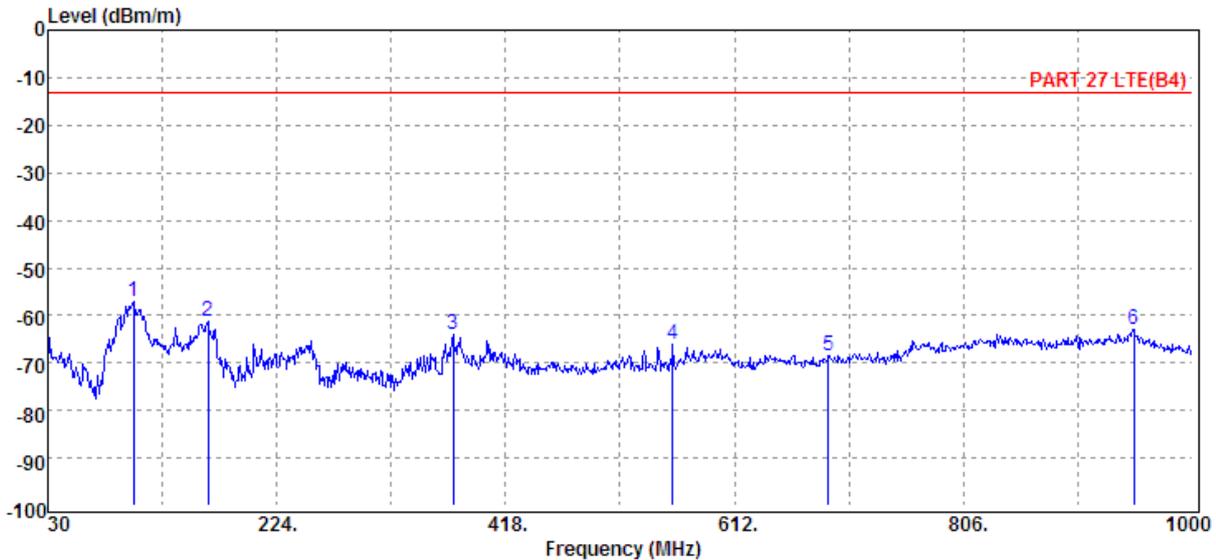
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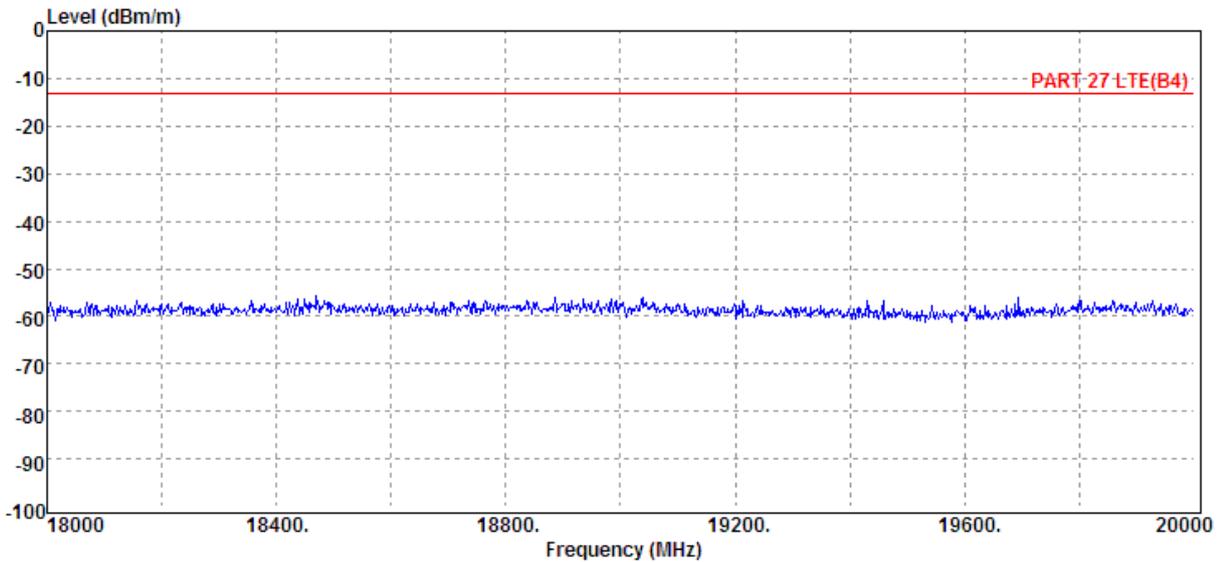
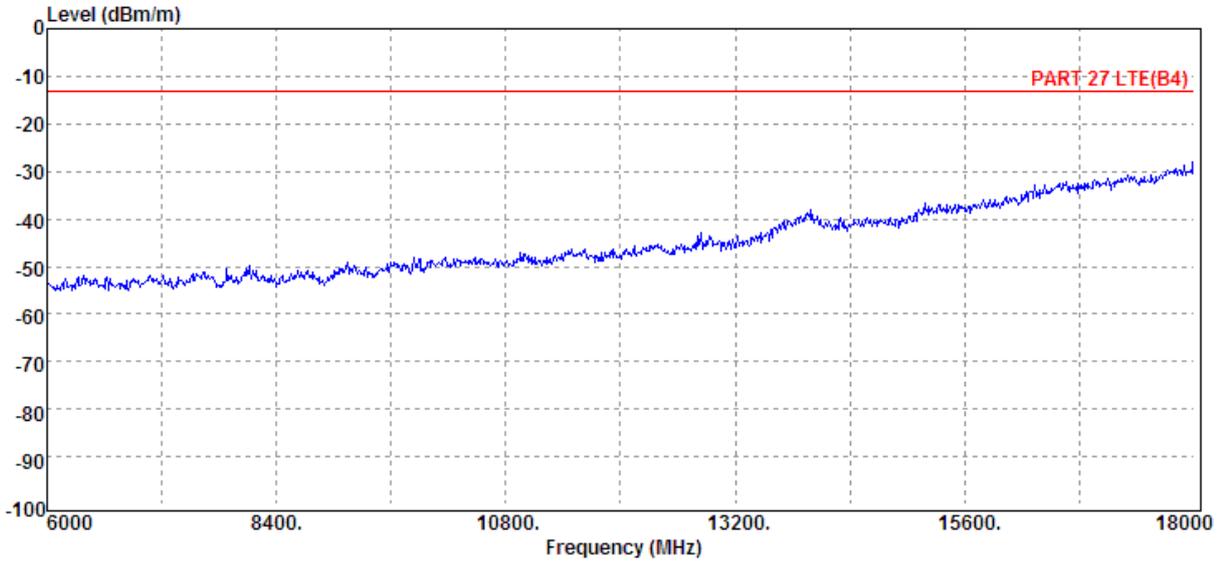
Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 19957 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1710.7 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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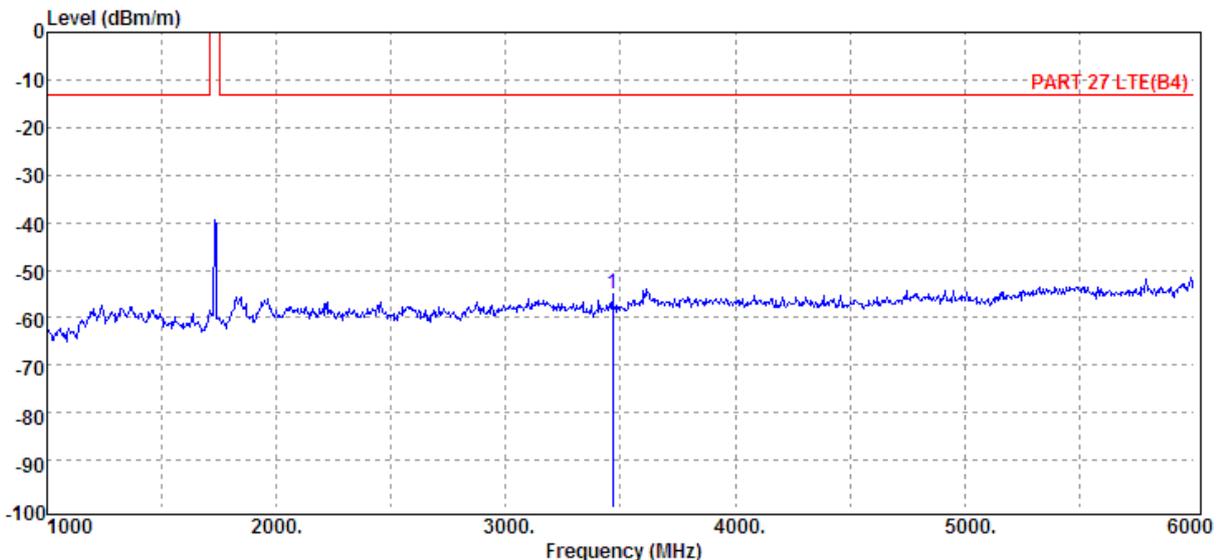
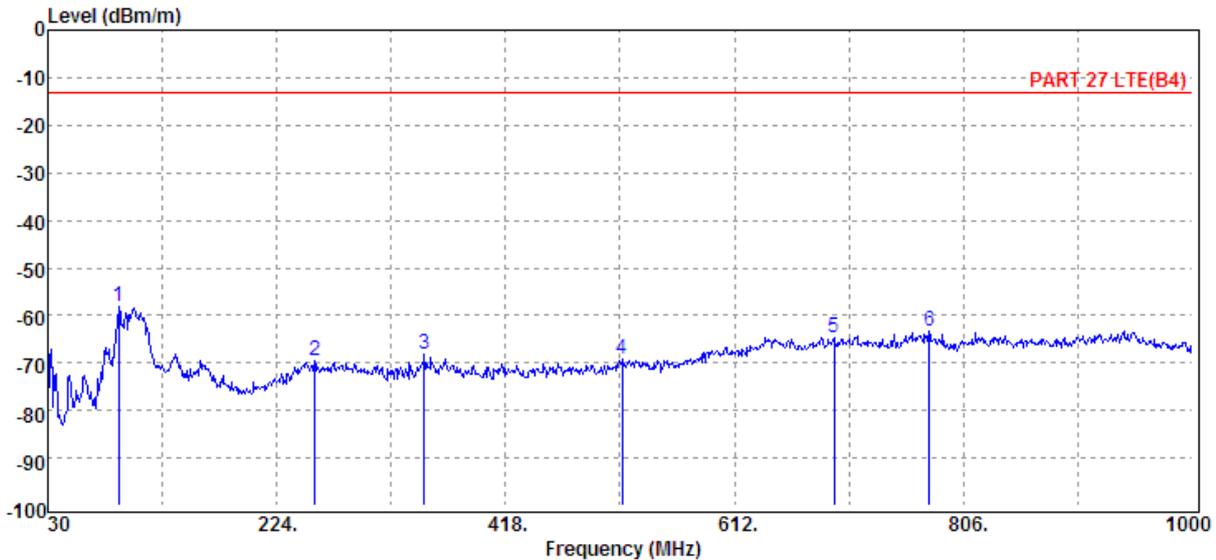
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Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 20175 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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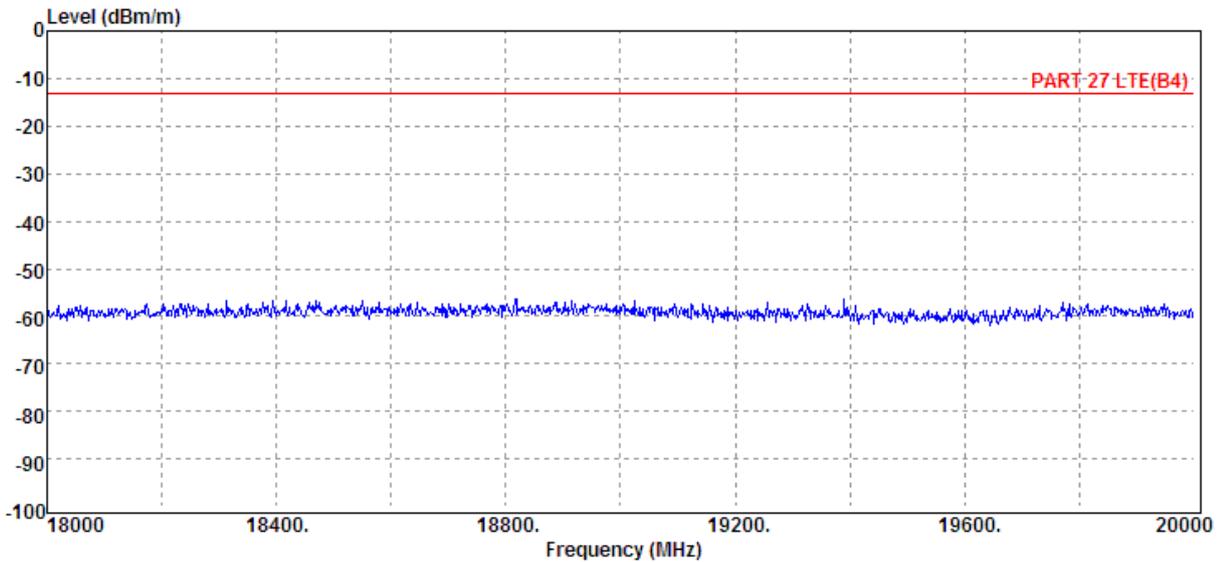
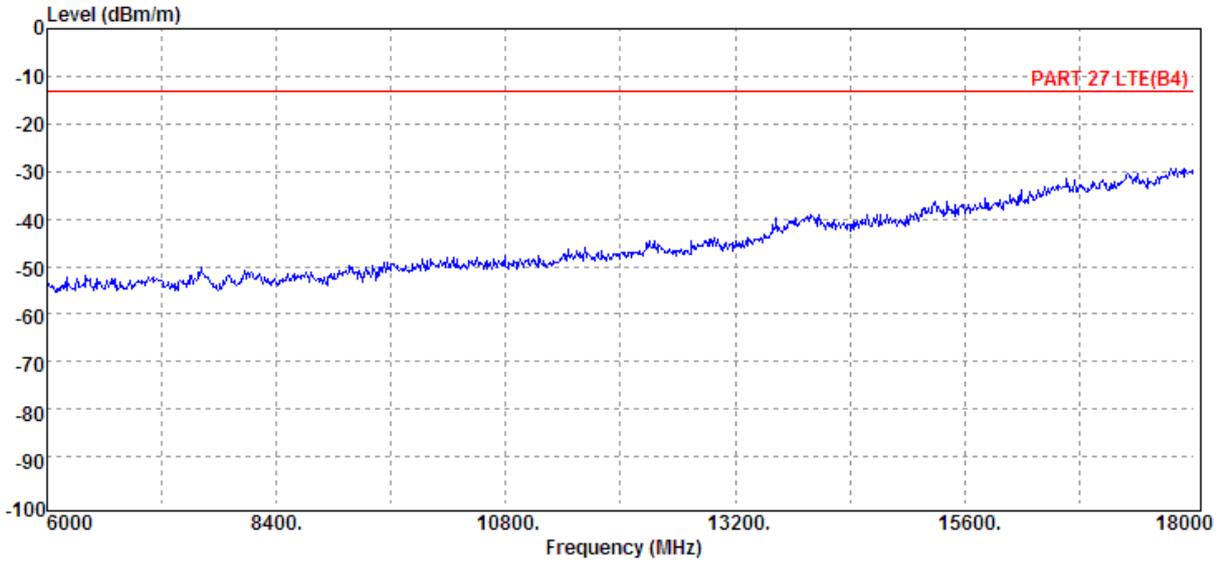
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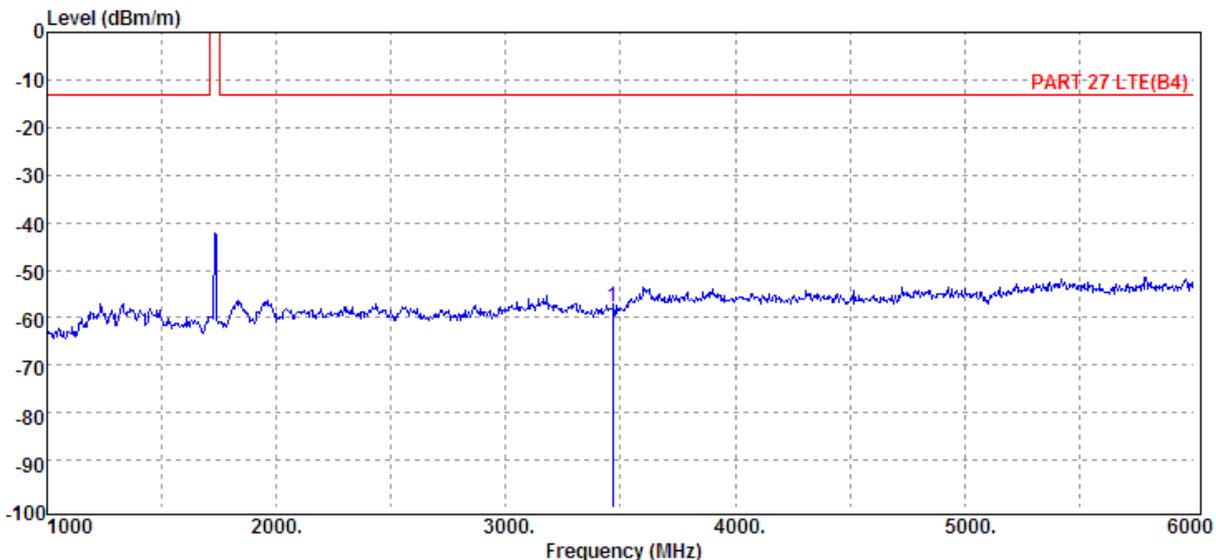
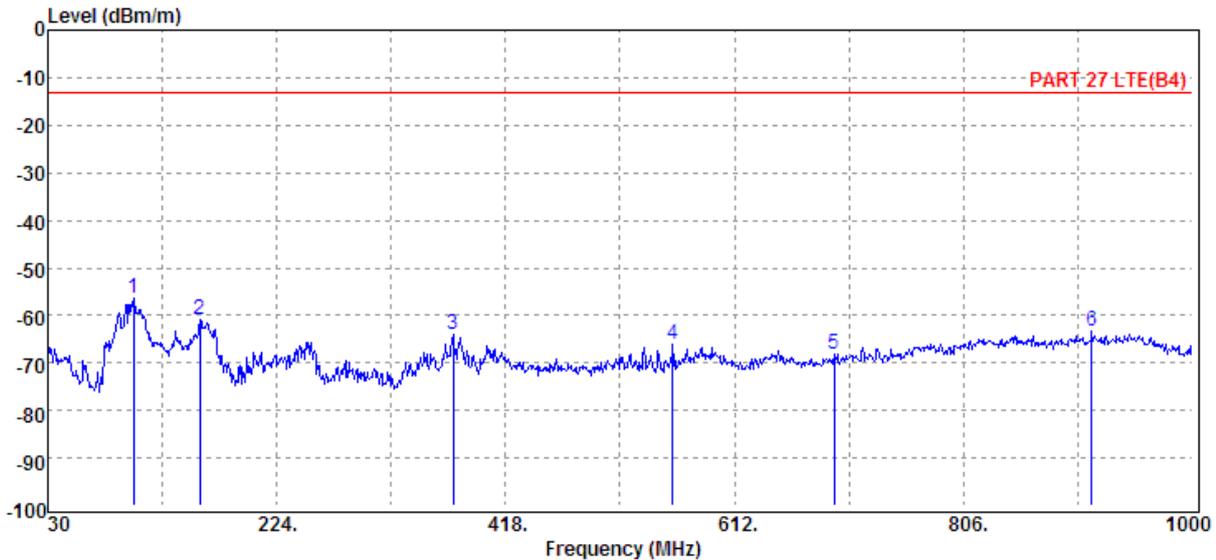
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Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 20175 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1732.5 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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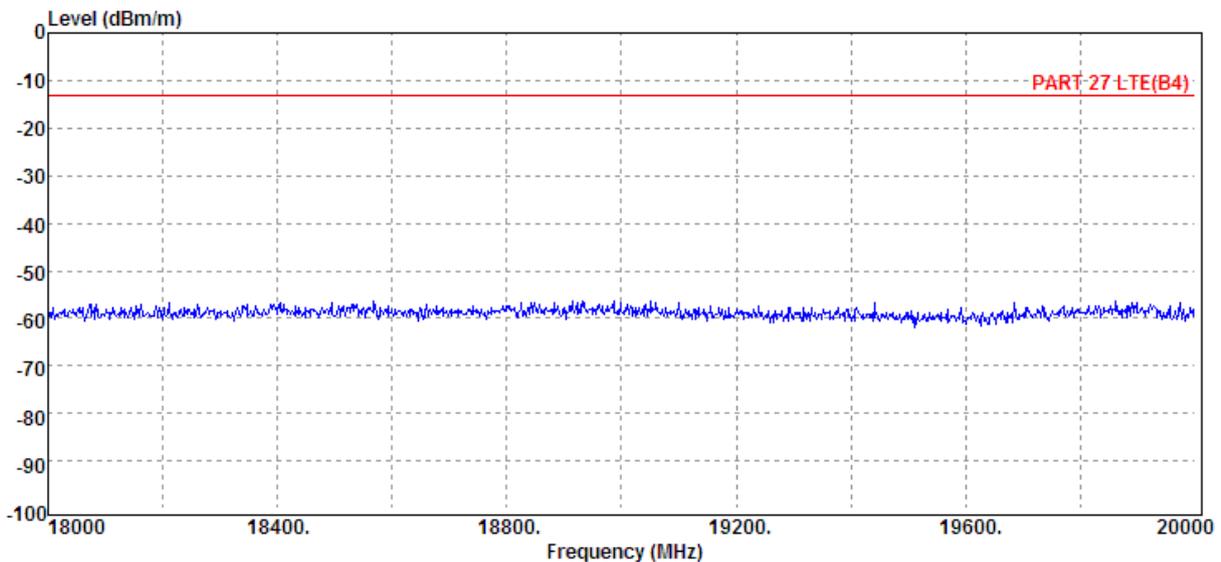
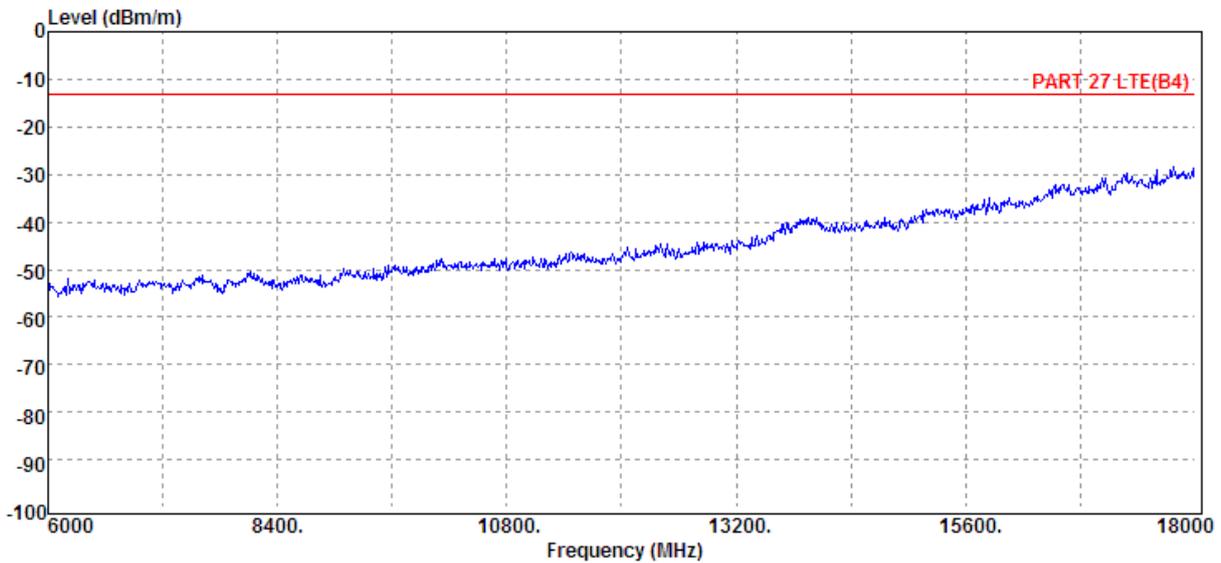
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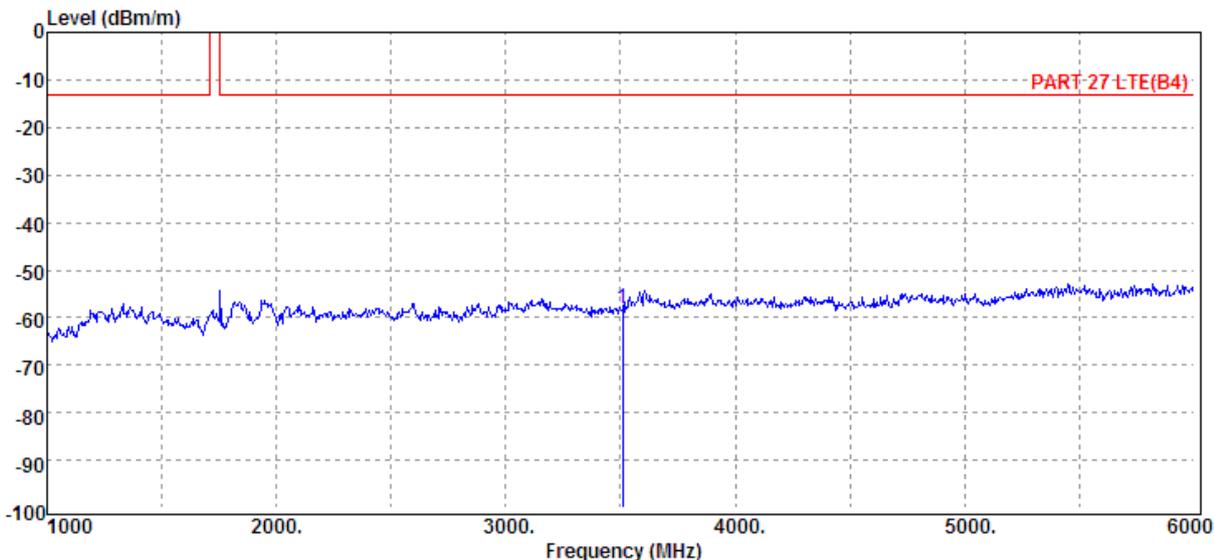
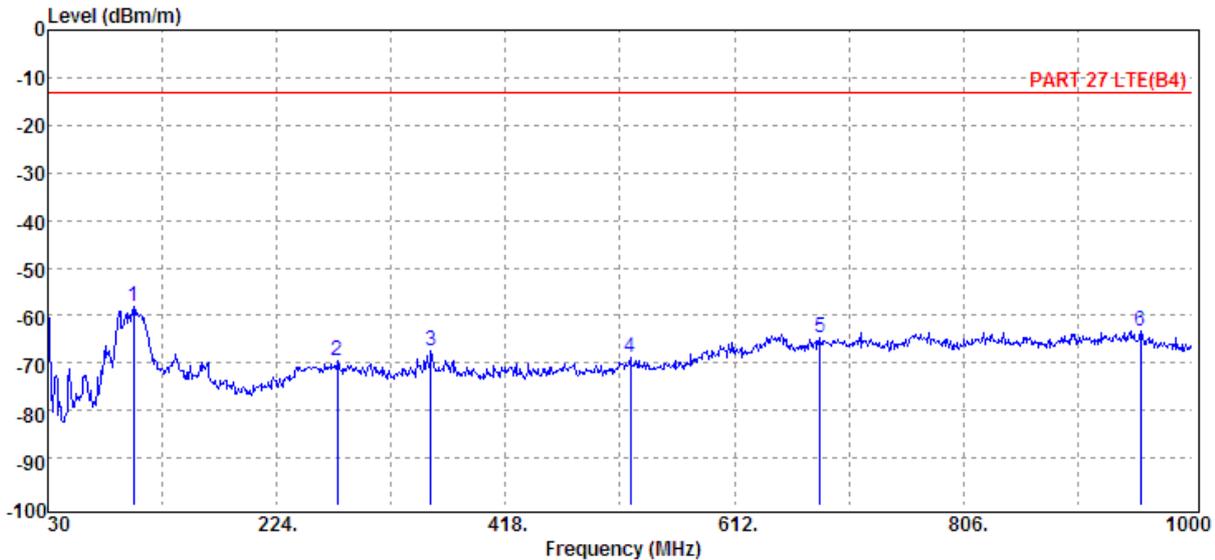
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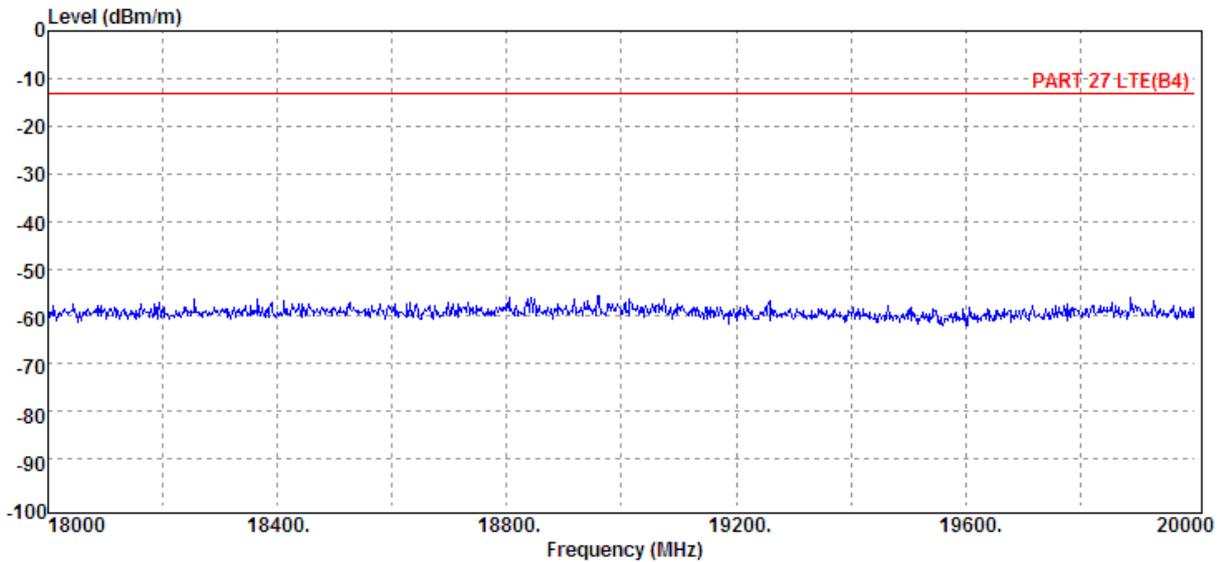
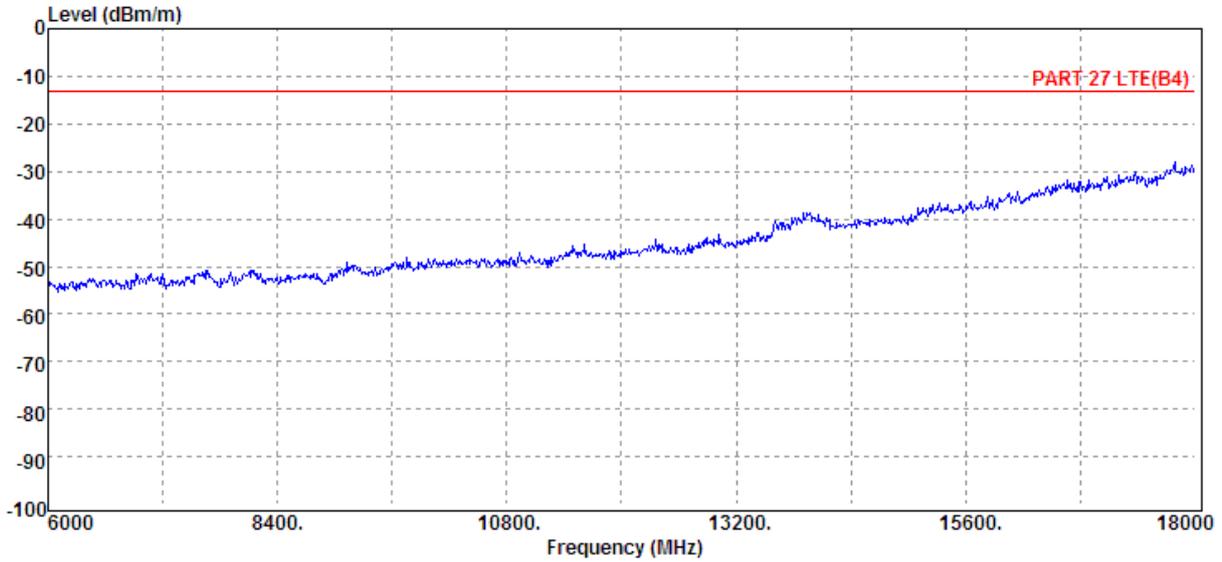
Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 20393 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		



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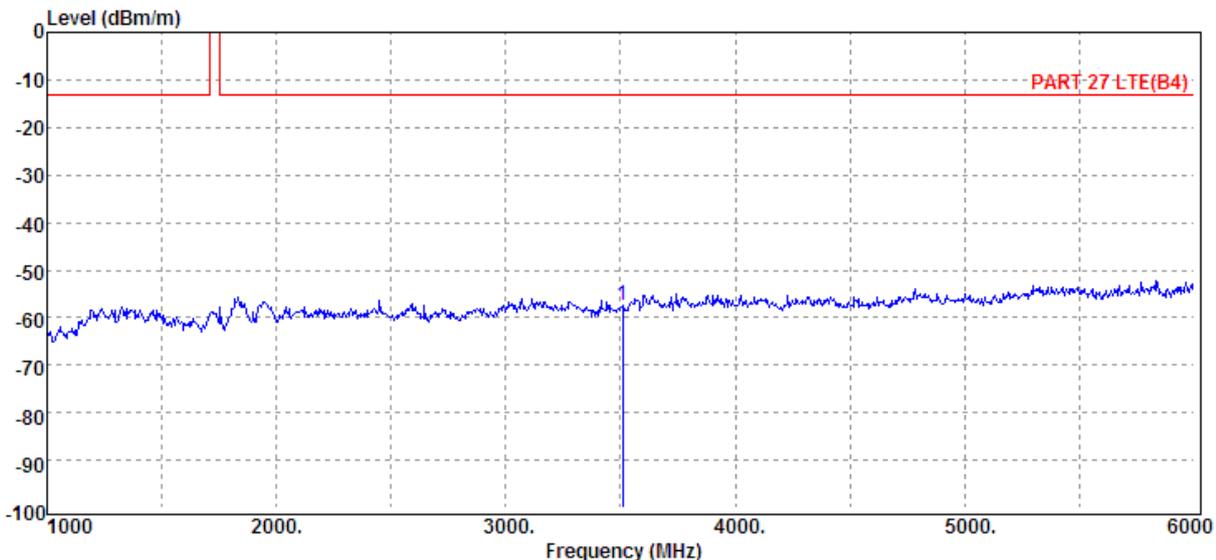
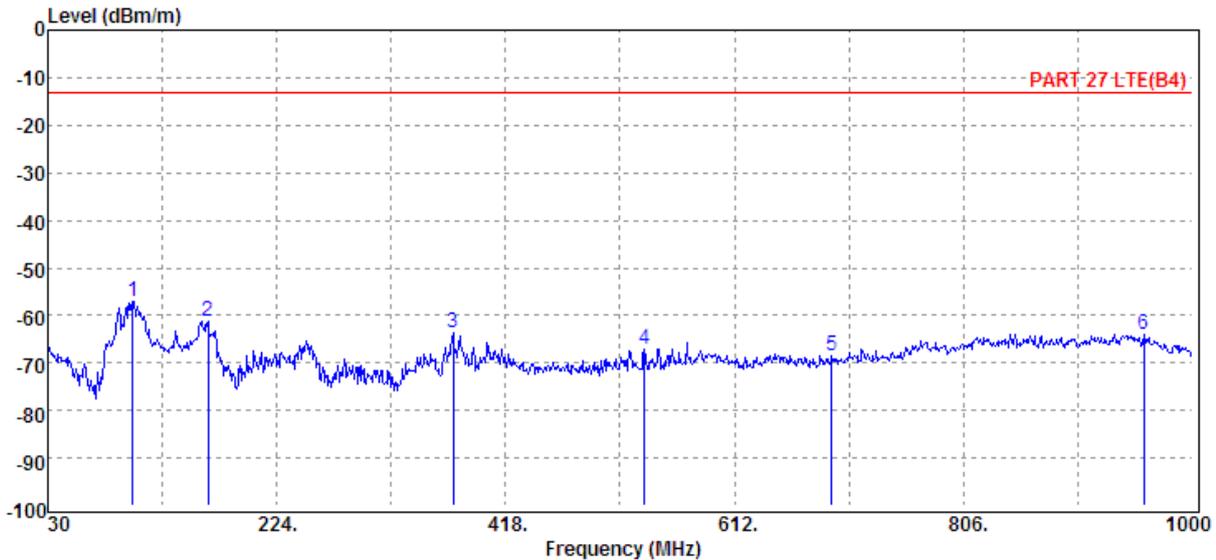
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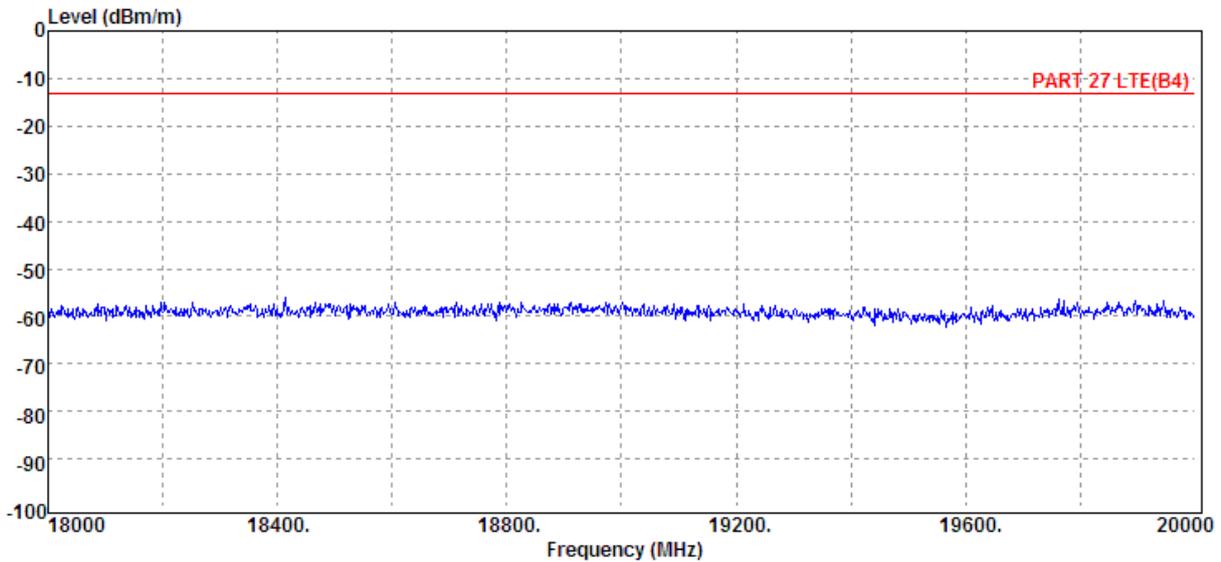
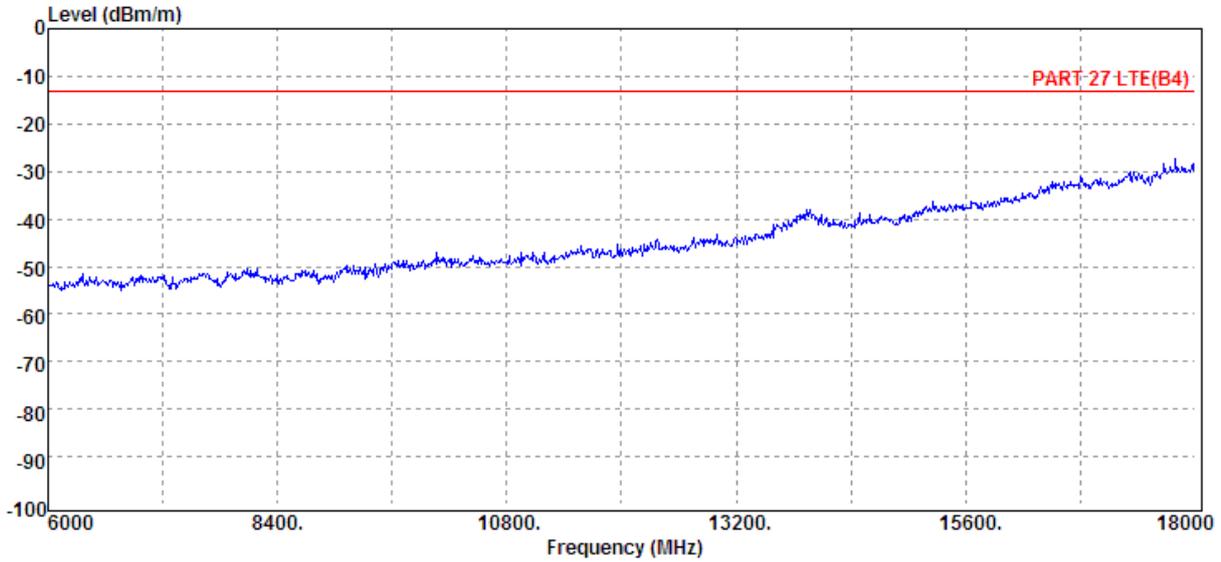
Operation Band	:LTE B4	Test Date	:2014-02-28
ARFCN	:CH 20393 16QAM BW 1.4 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:1754.3 MHz	Engineer	:Allen
Operation Mode	:TX HIGH		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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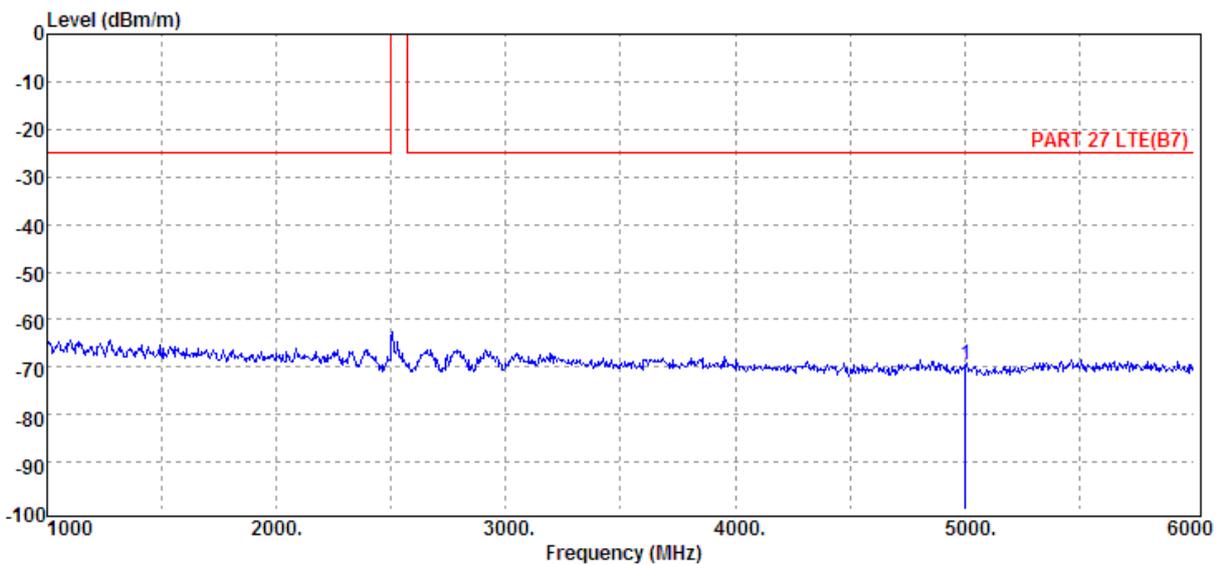
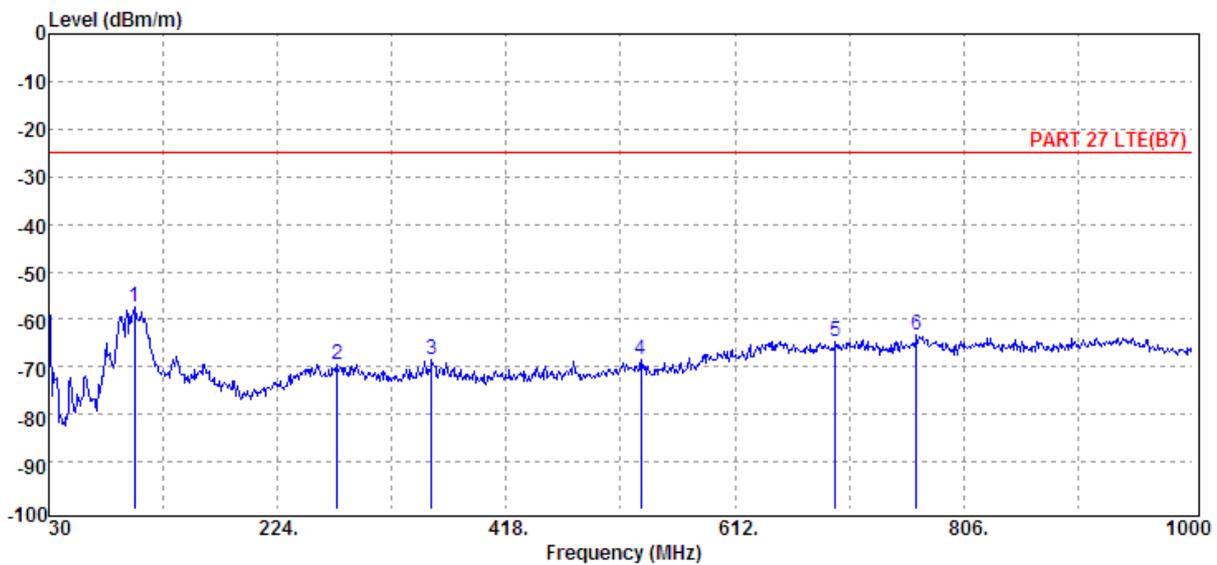
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)**

Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 20775 16QAM BW 5 RB 1 24	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2502.5 MHz	Engineer	:Allen
Operation Mode	:TX LOW	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:H Plane		



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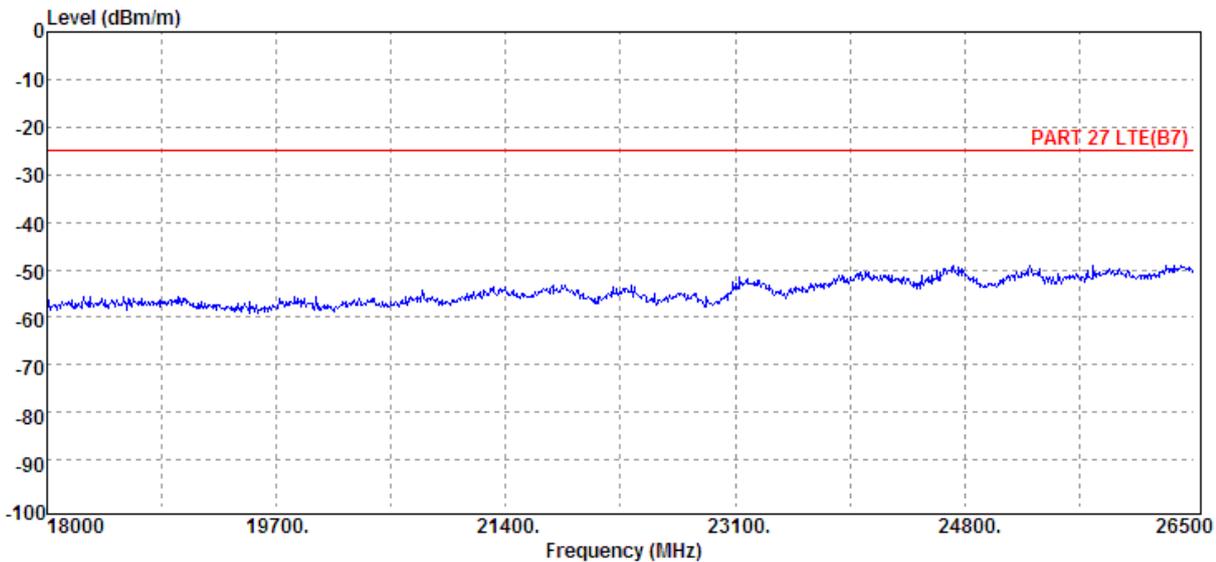
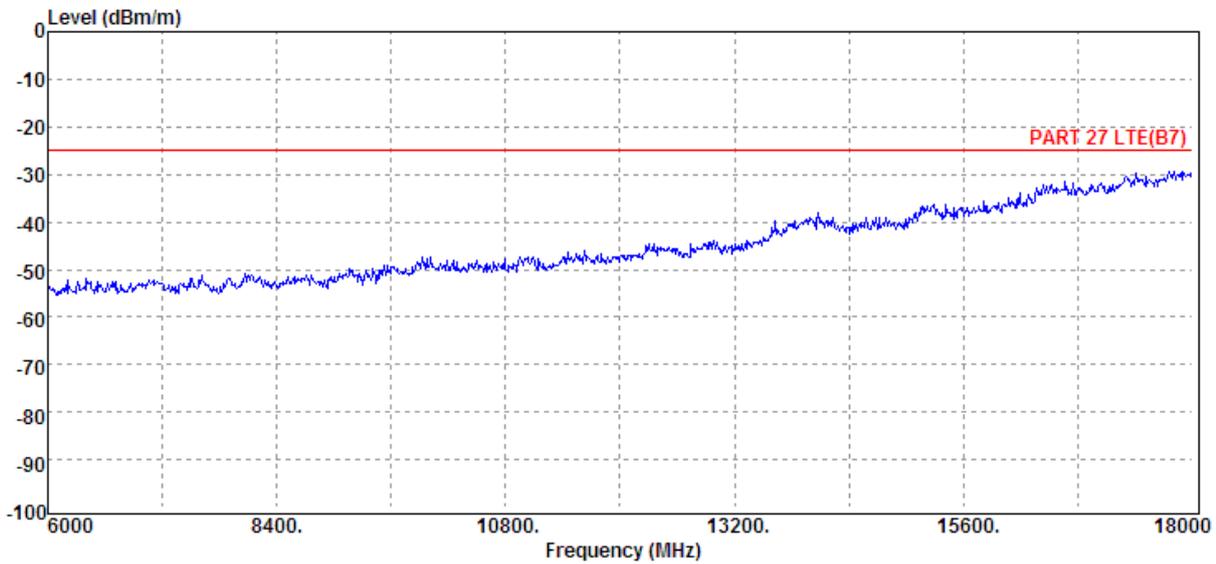
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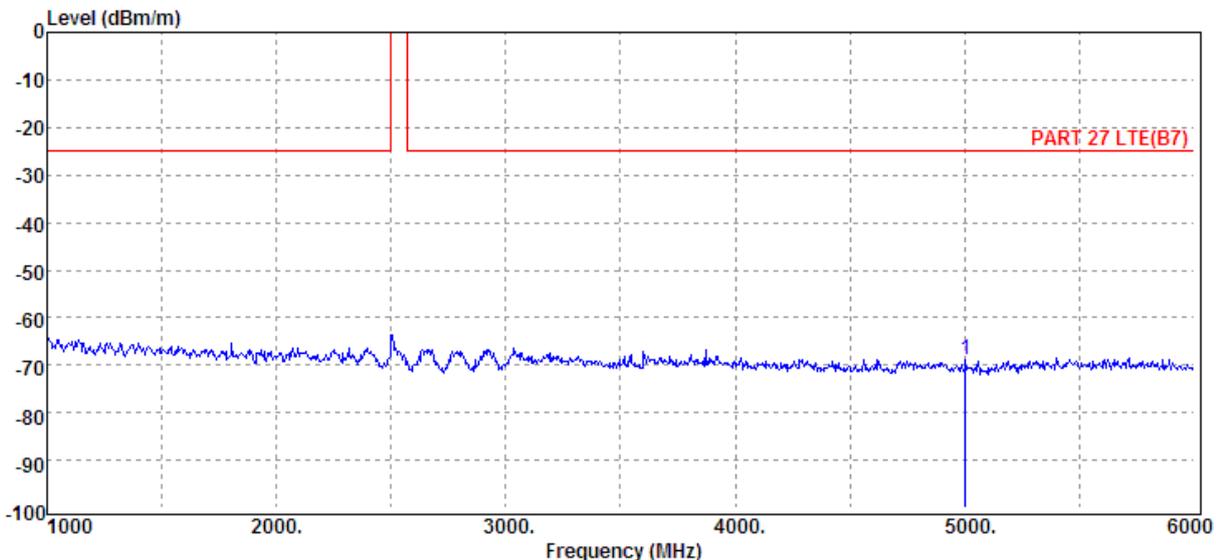
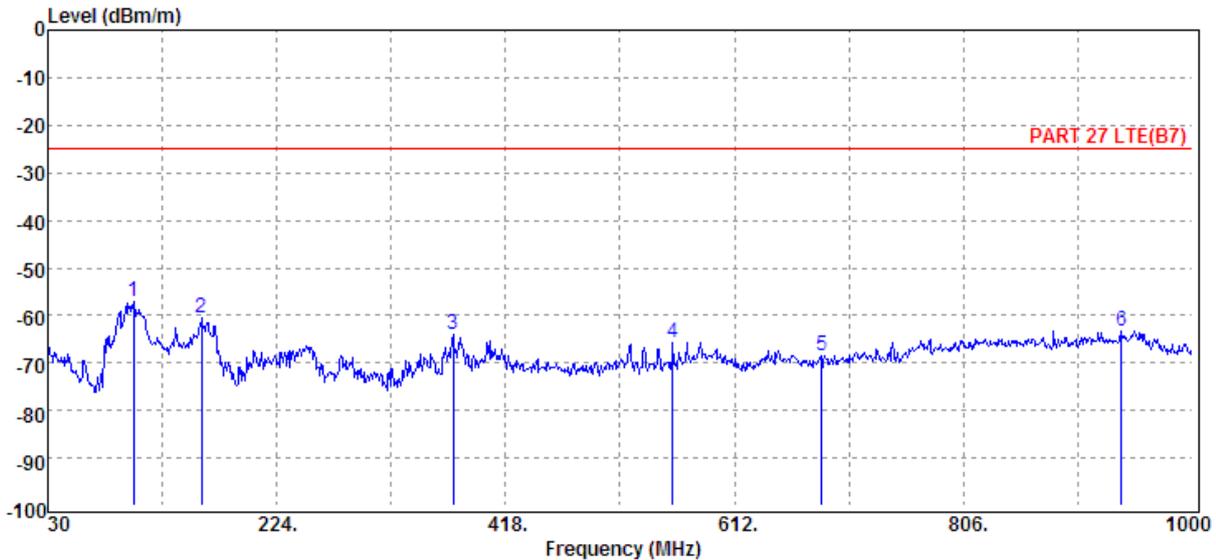
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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 20775 16QAM BW 5	Temp./Humi.	:24 deg_C / 59 RH
	RB 1 24	Engineer	:Allen
Fundamental Frequency	:2502.5 MHz	Measurement Antenna Pol.	:HORIZONTAL
Operation Mode	:TX LOW		
EUT Pol.	:H Plane		



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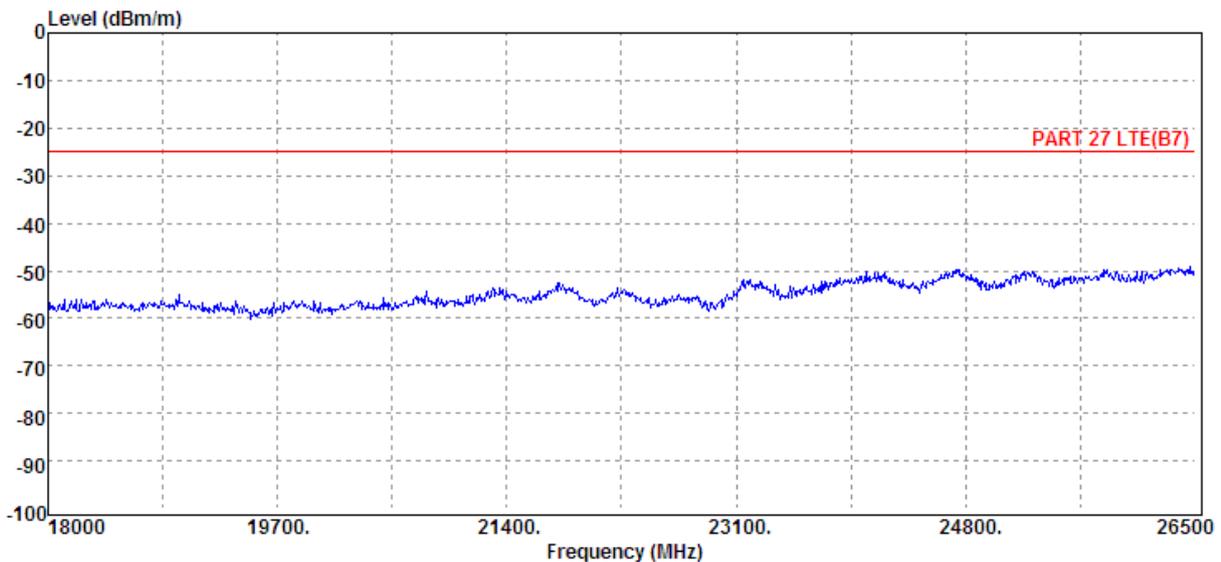
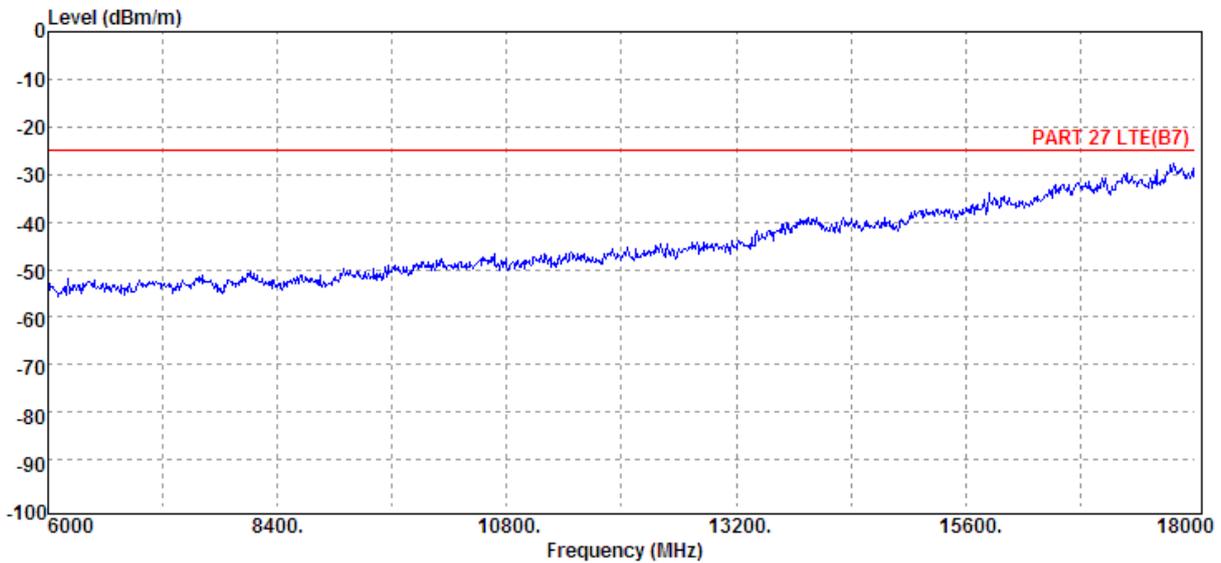
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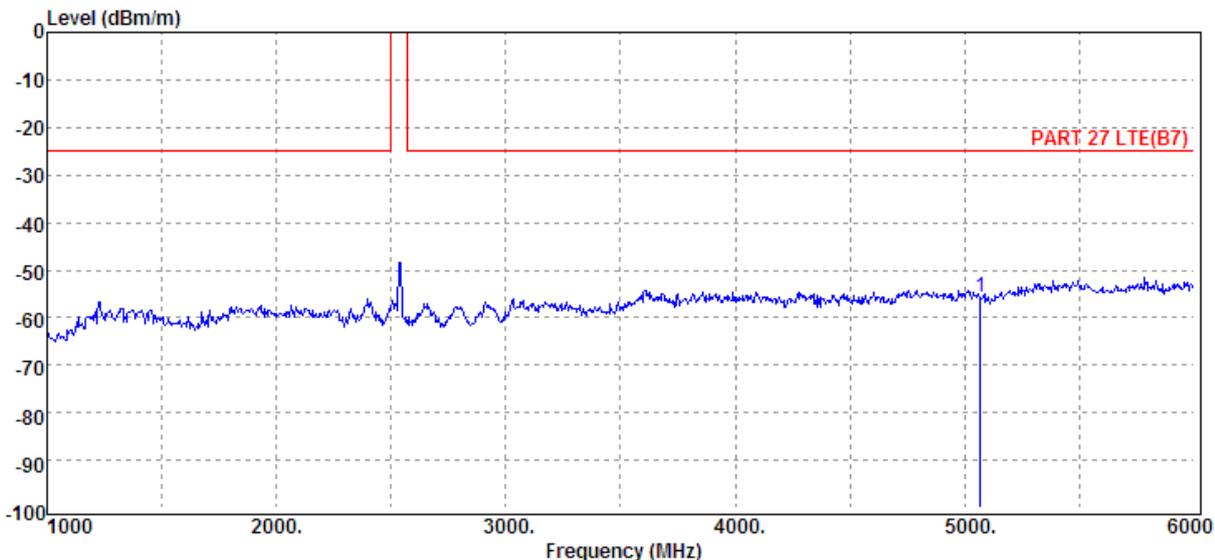
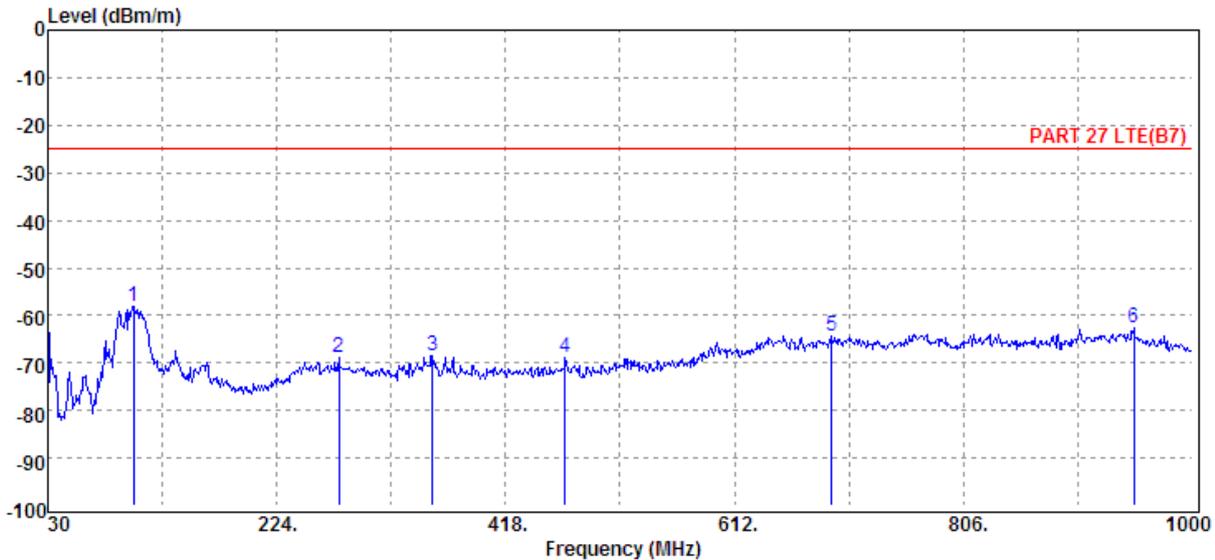
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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 21100 16QAM BW 5	Temp./Humi.	:24 deg_C / 59 RH
	RB 1 24	Engineer	:Allen
Fundamental Frequency	:2535 MHz	Measurement Antenna Pol.	:VERTICAL
Operation Mode	:TX MID		
EUT Pol.	:H Plane		



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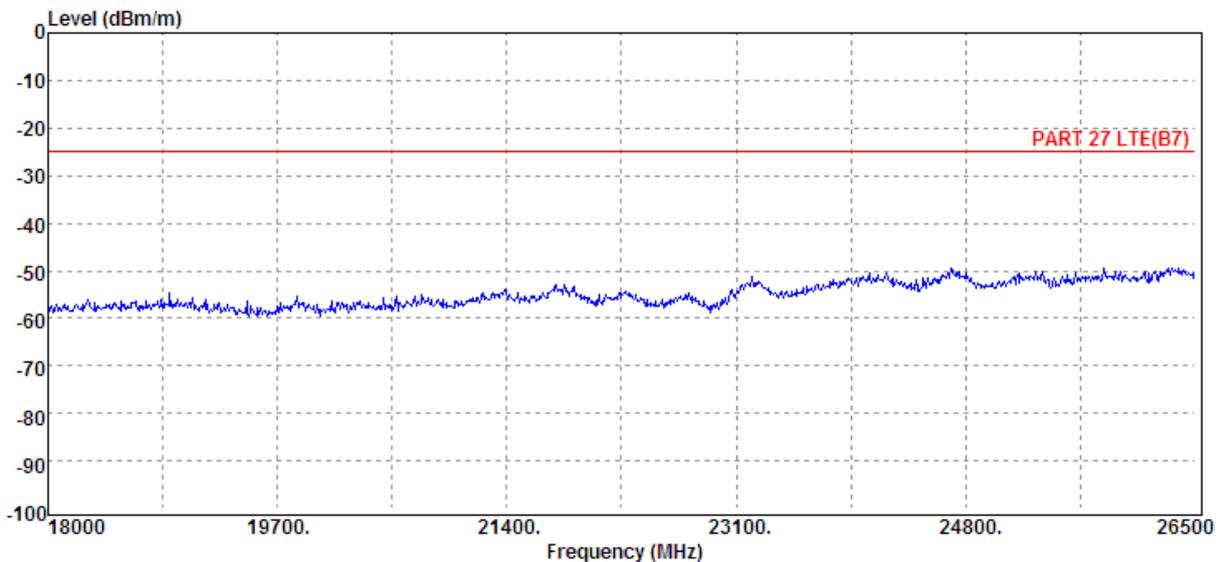
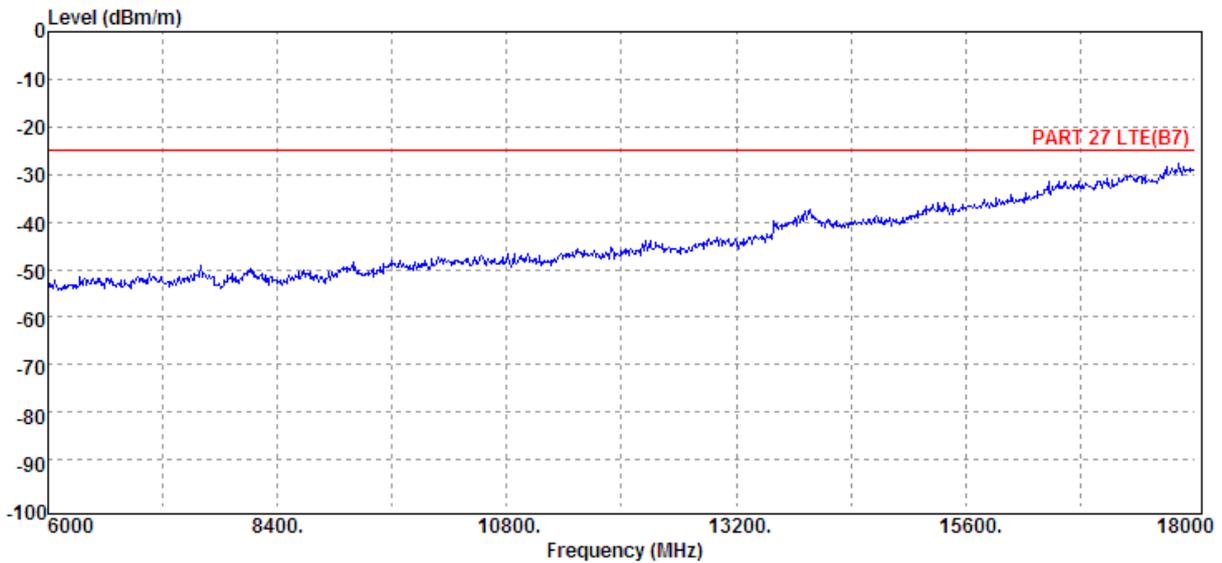
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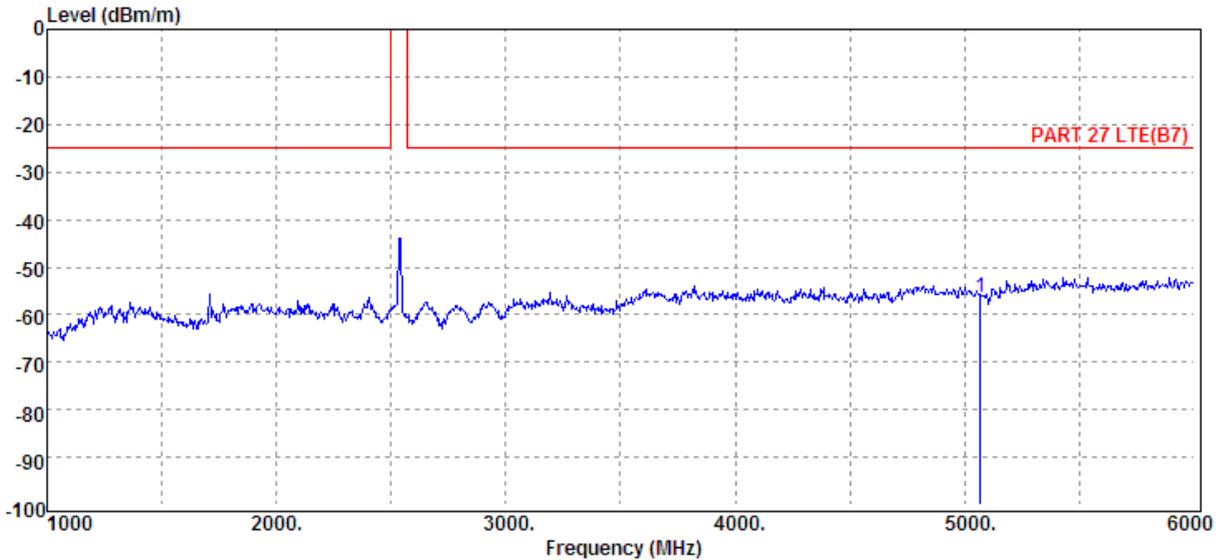
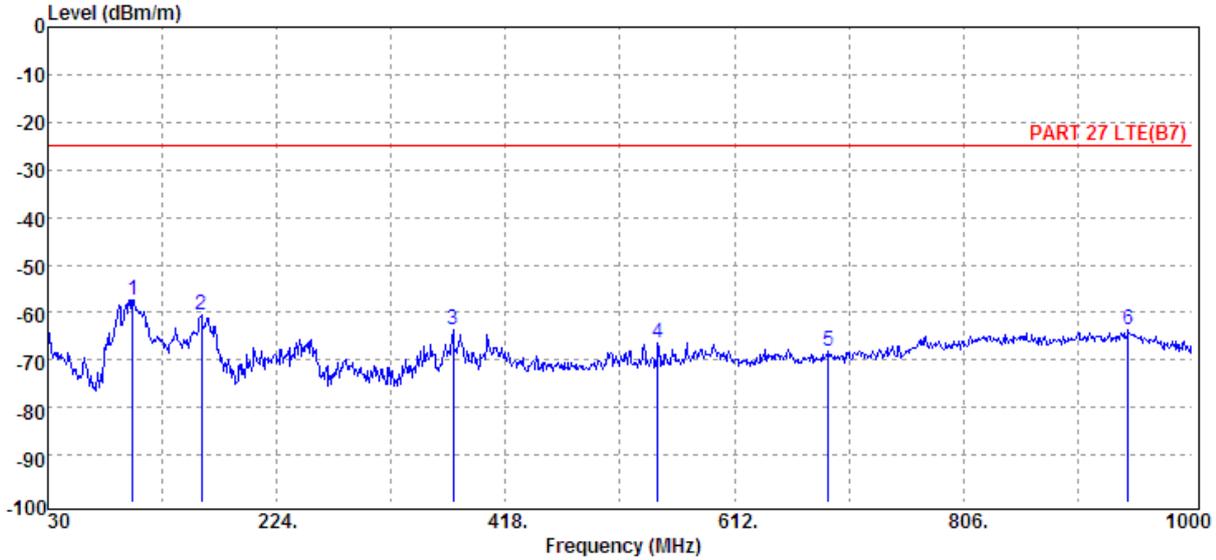
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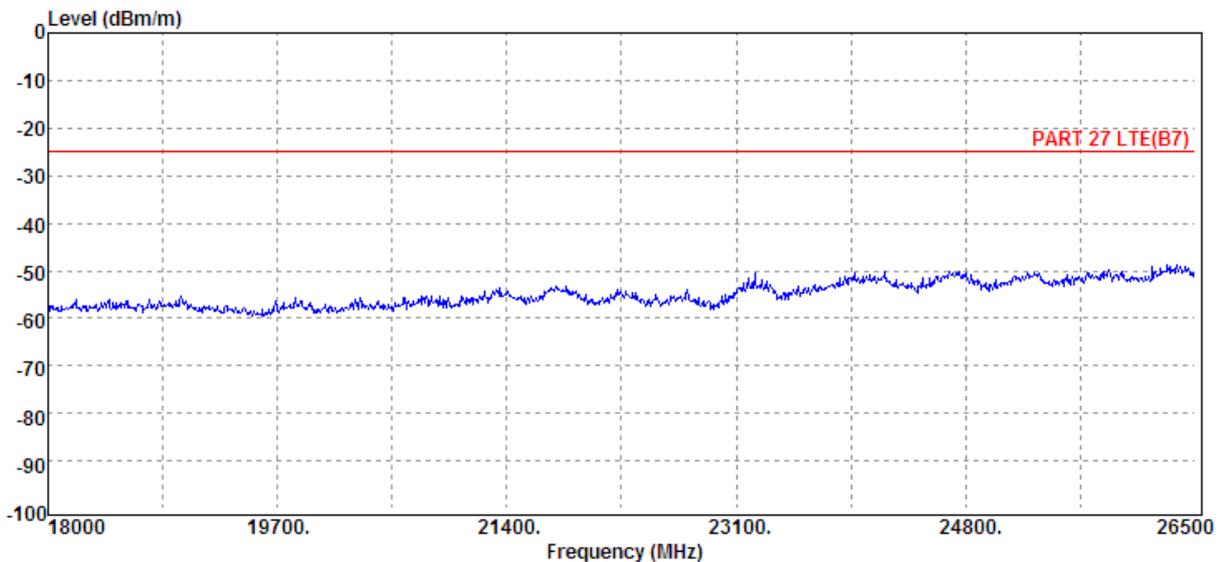
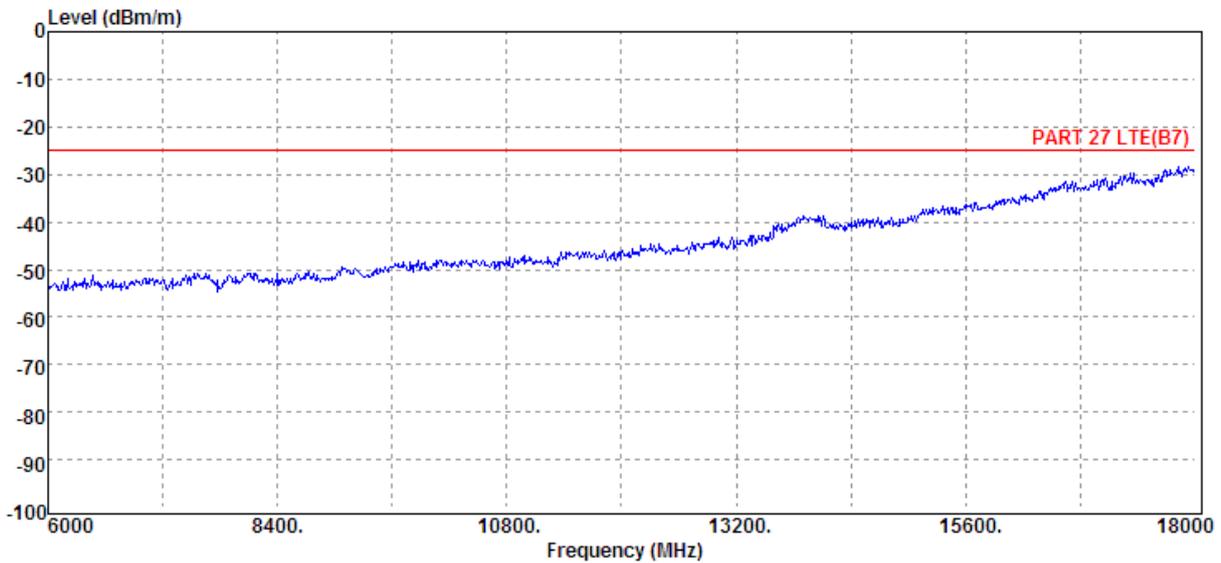
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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 21100 16QAM BW 5 RB 1 24	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2535 MHz	Engineer	:Allen
Operation Mode	:TX MID	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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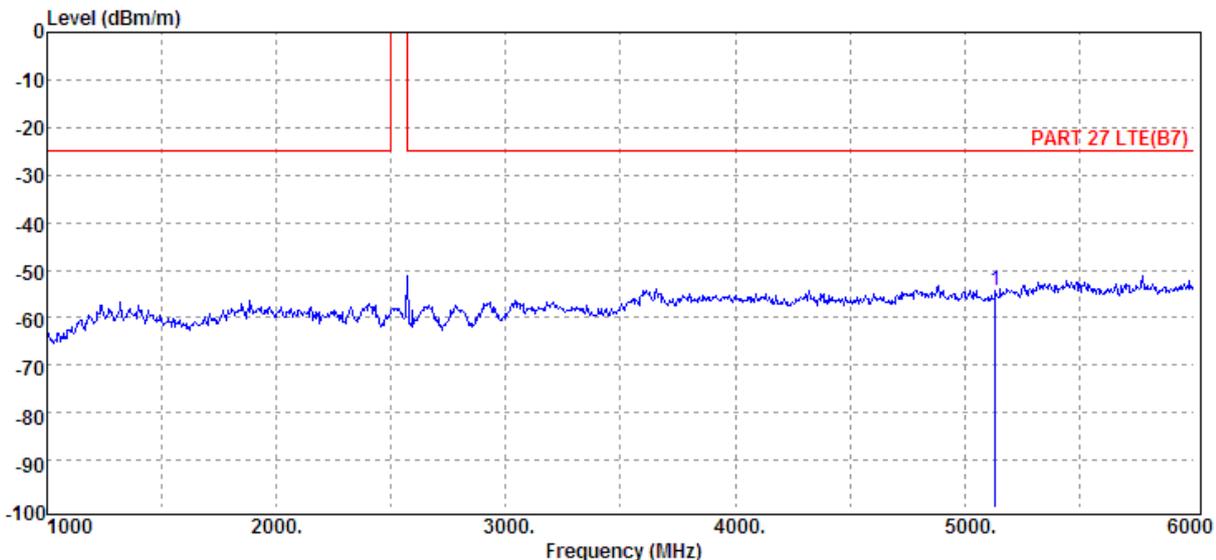
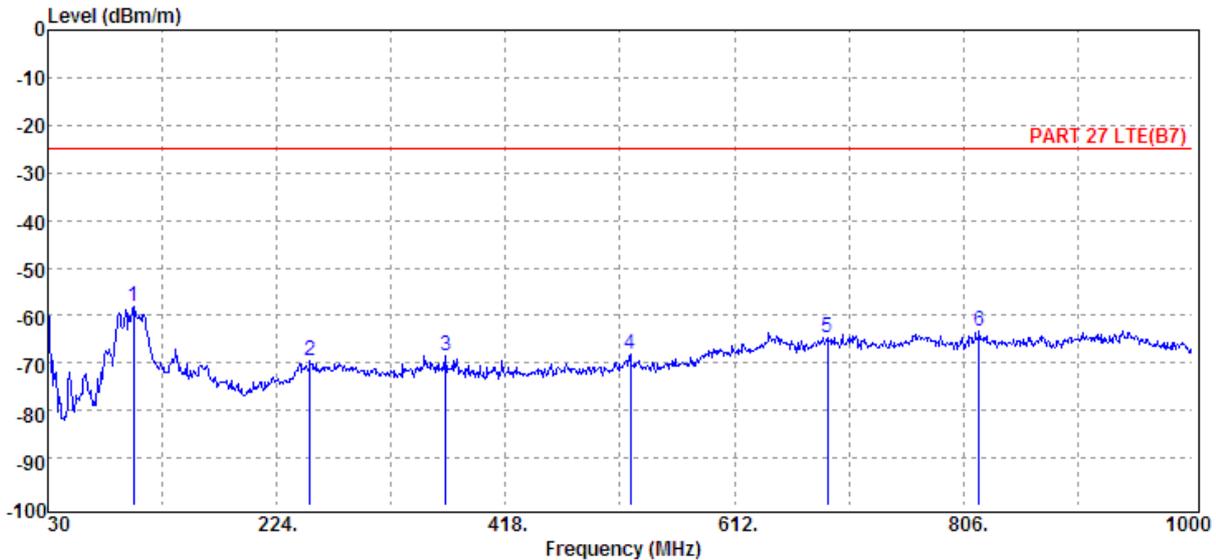
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Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 21425 16QAM BW 5	Temp./Humi.	:24 deg_C / 59 RH
	RB 1 24	Engineer	:Allen
Fundamental Frequency	:2567.5 MHz	Measurement Antenna Pol.	:VERTICAL
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane		



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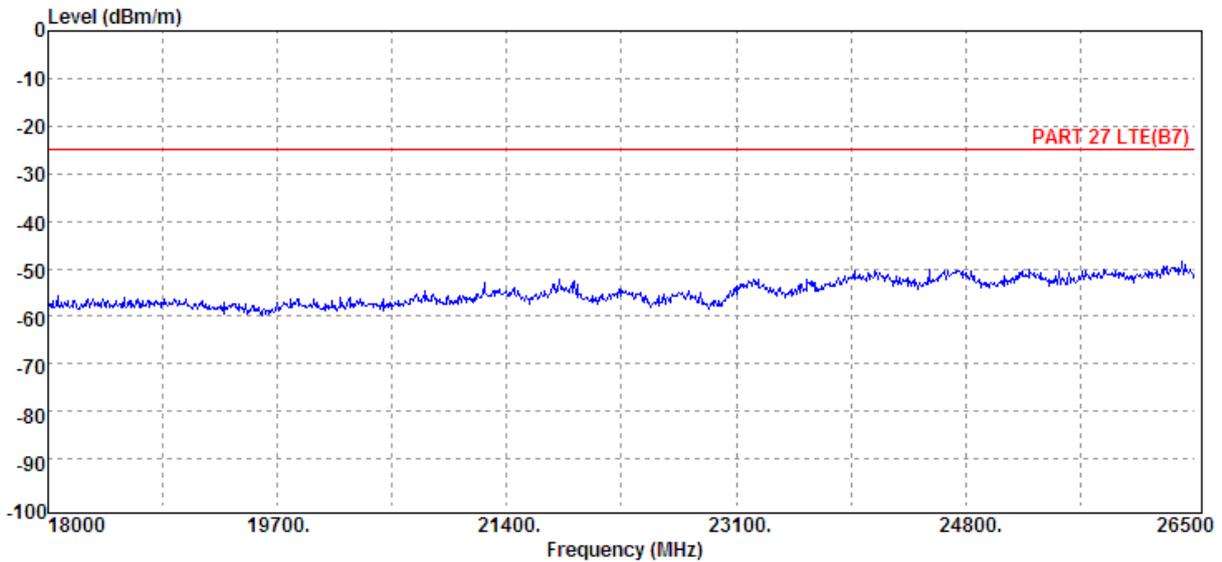
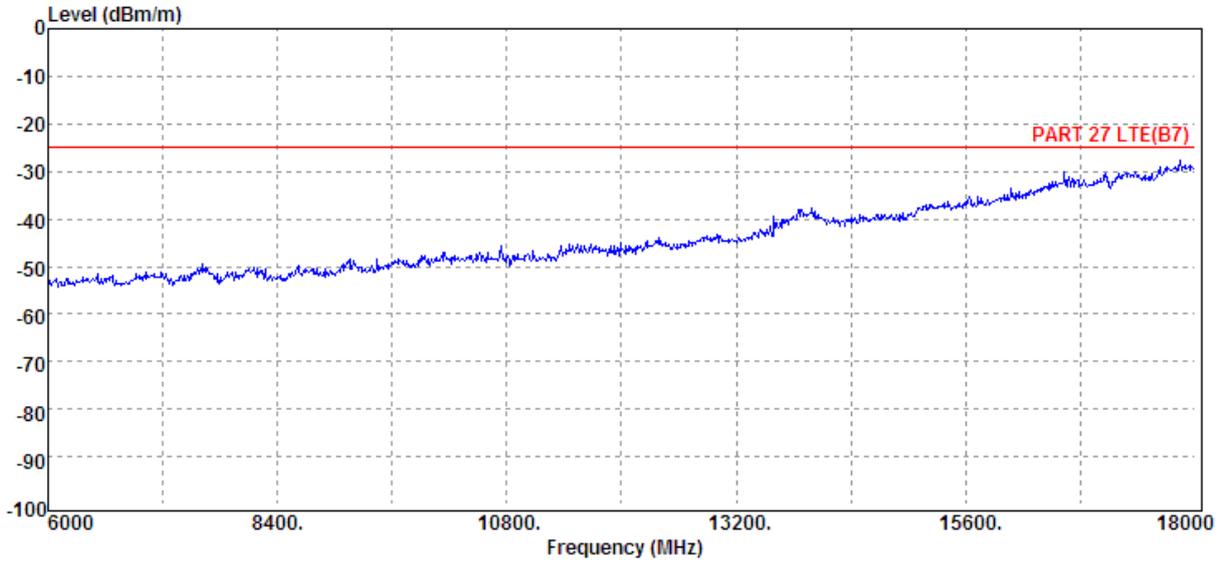
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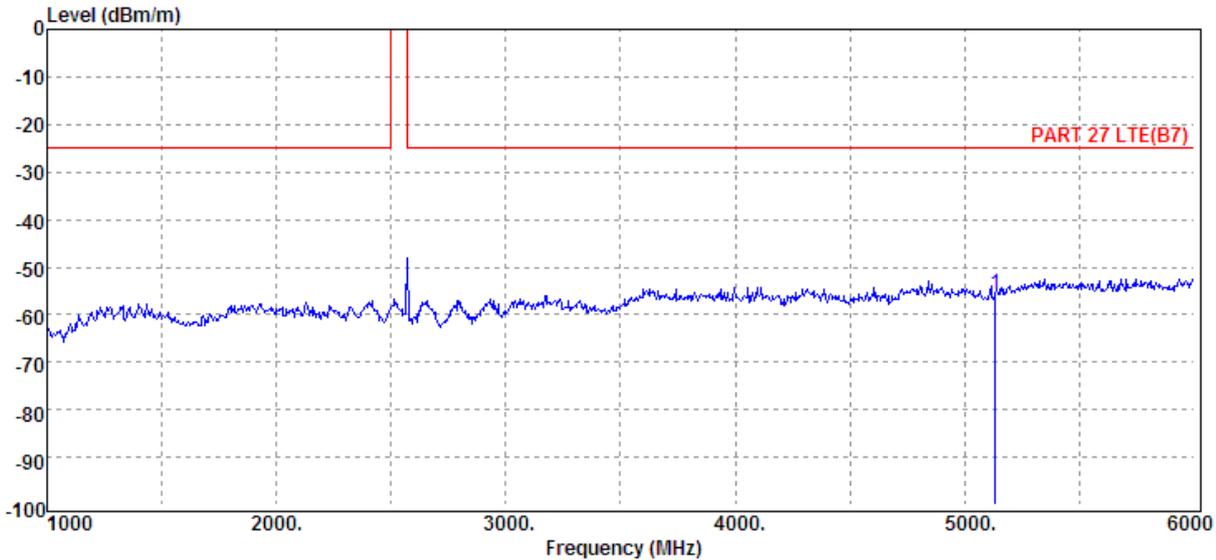
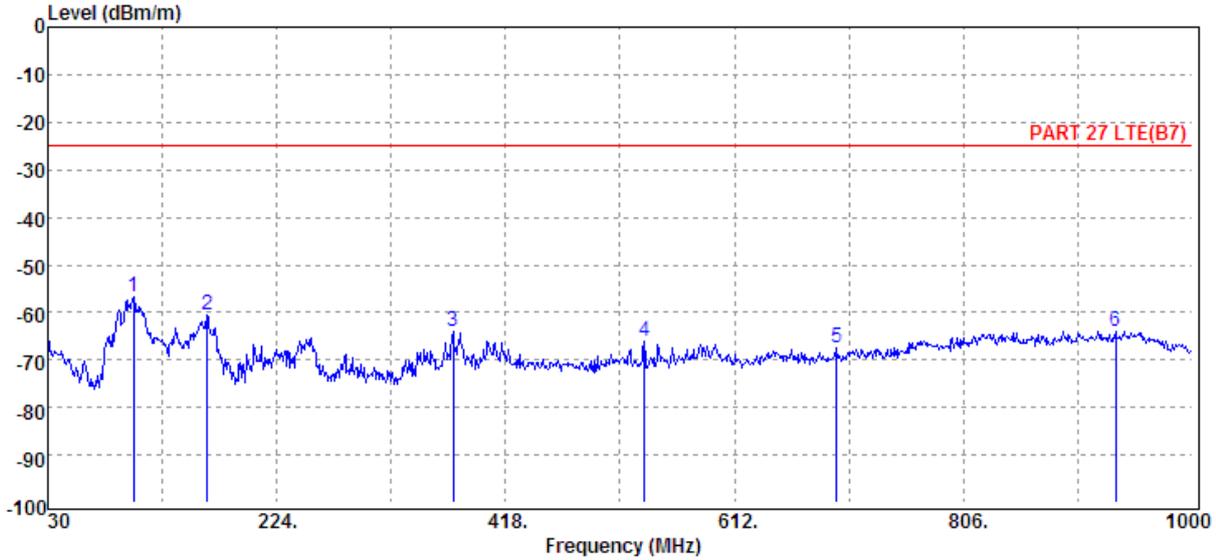
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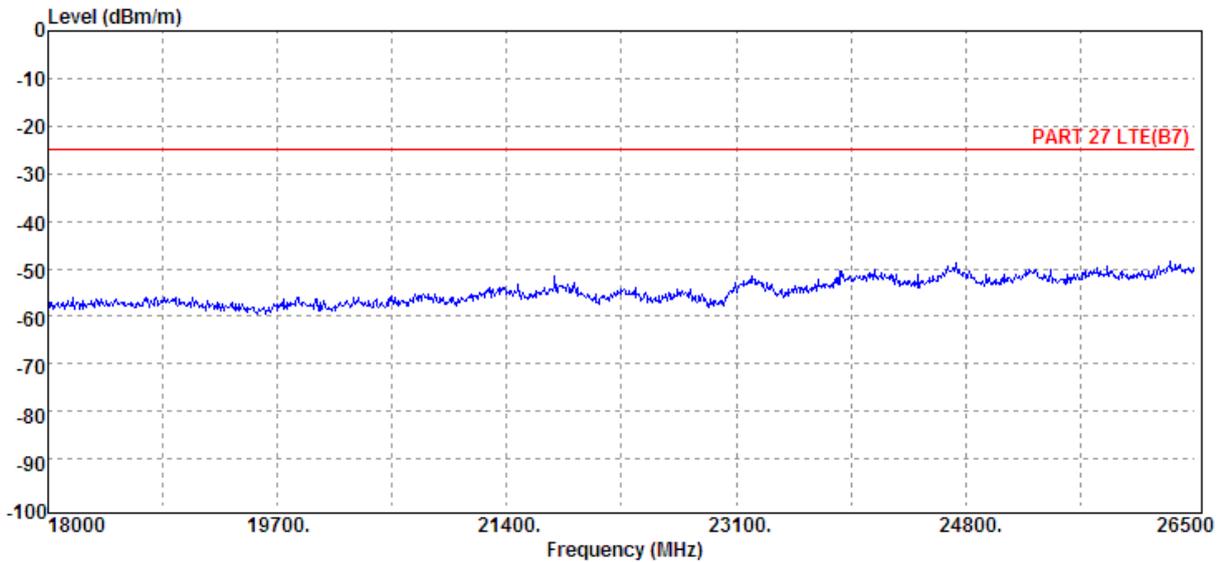
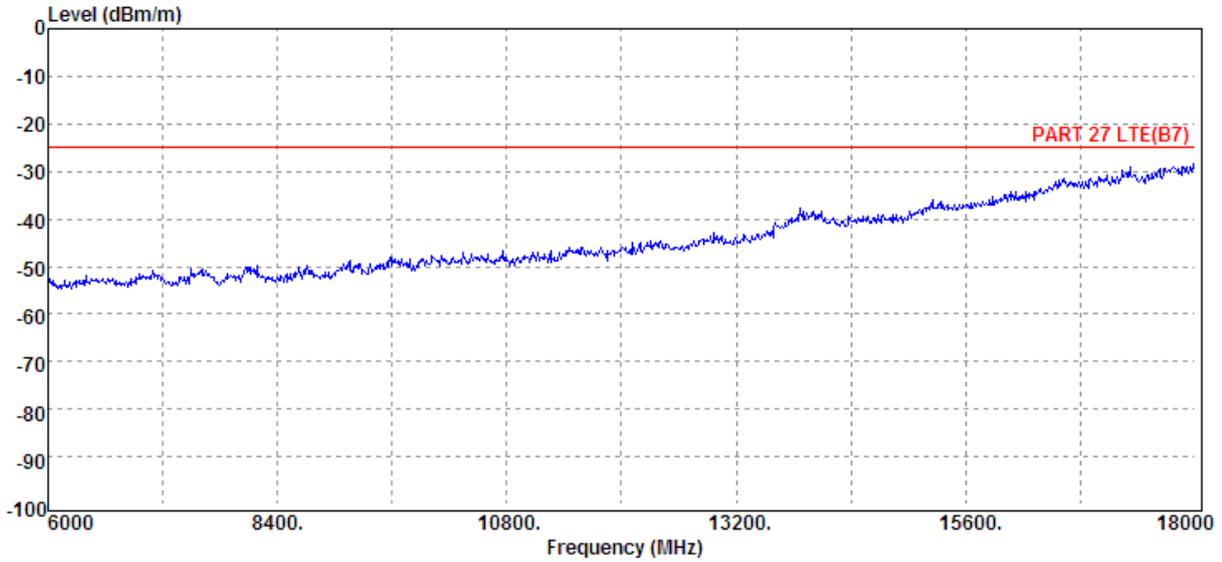
Operation Band	:LTE B7	Test Date	:2014-02-28
ARFCN	:CH 21425 16QAM BW 5 RB 1 24	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:2567.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:H Plane		



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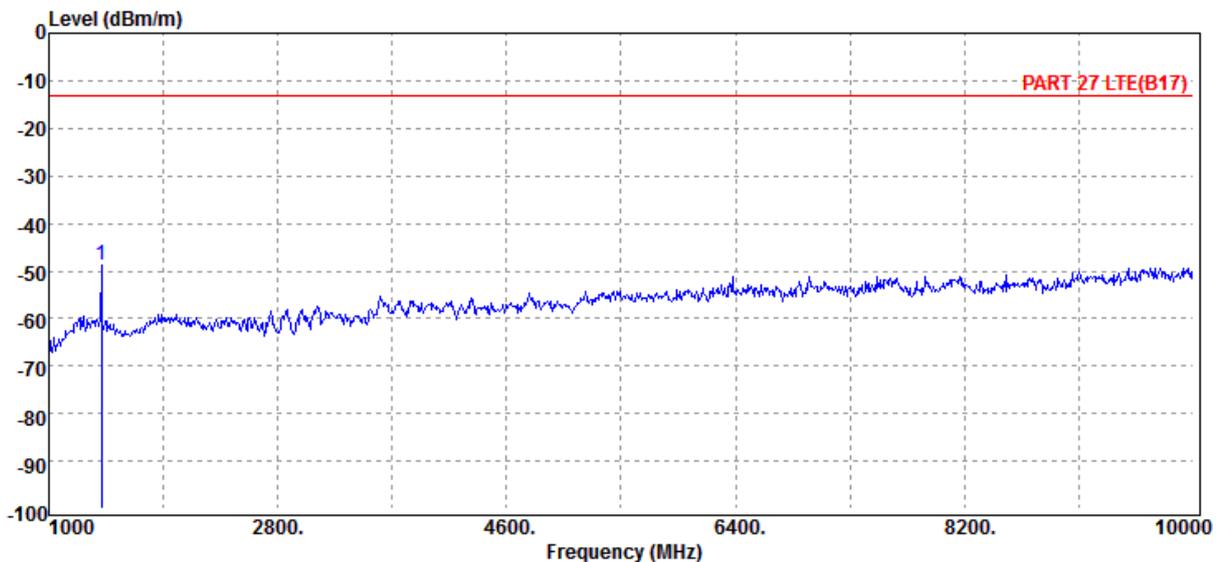
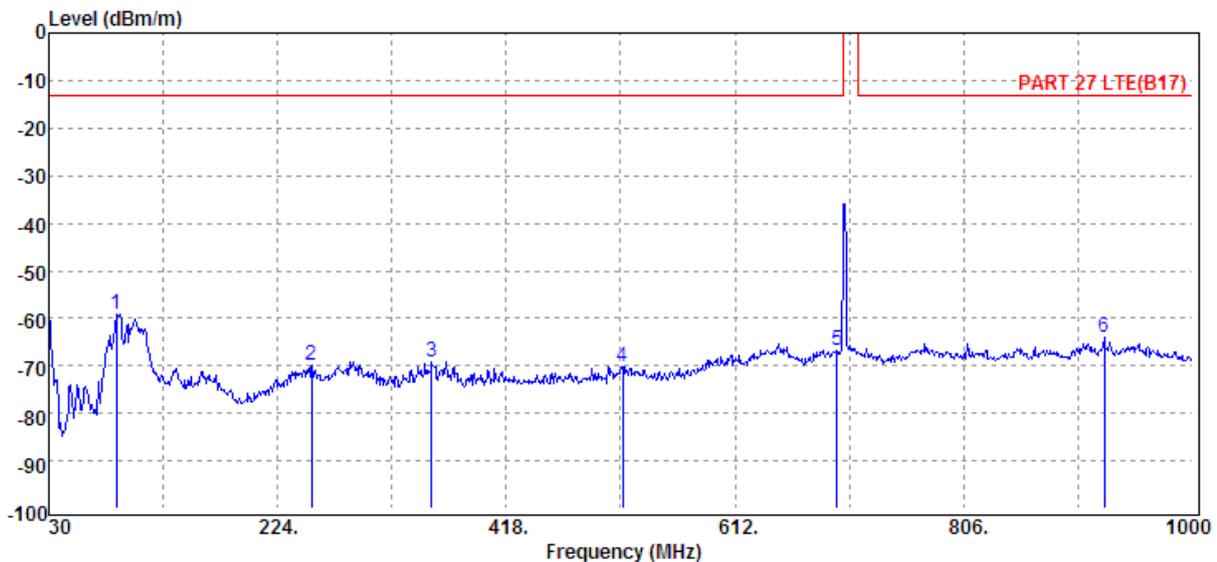


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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (Worst case)**

Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23755 16QAM BW 5	Temp./Humi.	:24 deg_C / 59 RH
	RB 1 0	Engineer	:Allen
Fundamental Frequency	:706.5 MHz	Measurement Antenna Pol.	:VERTICAL
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane		



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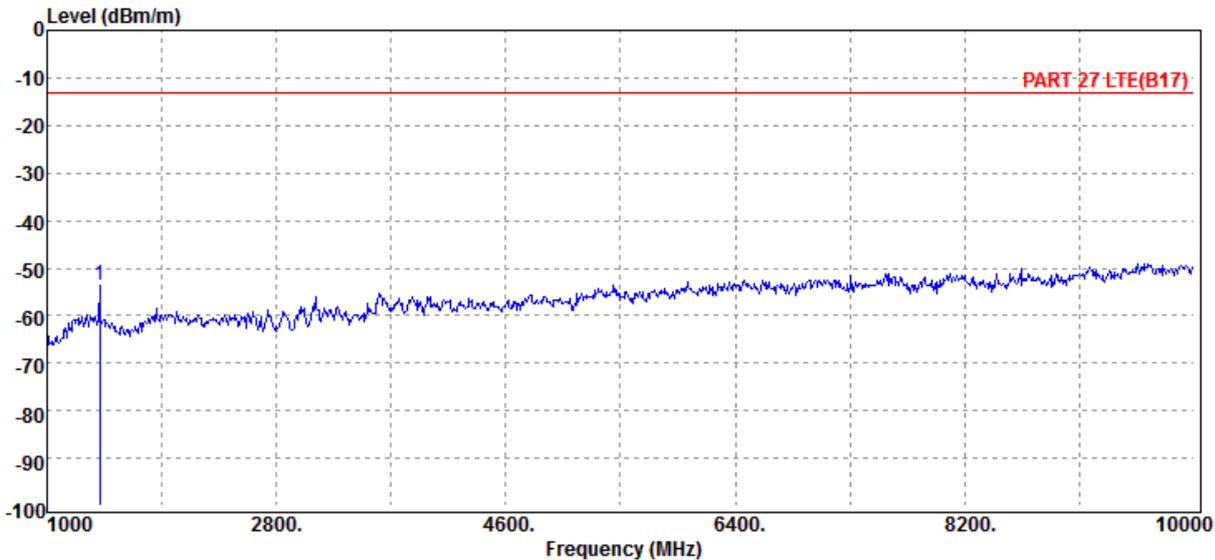
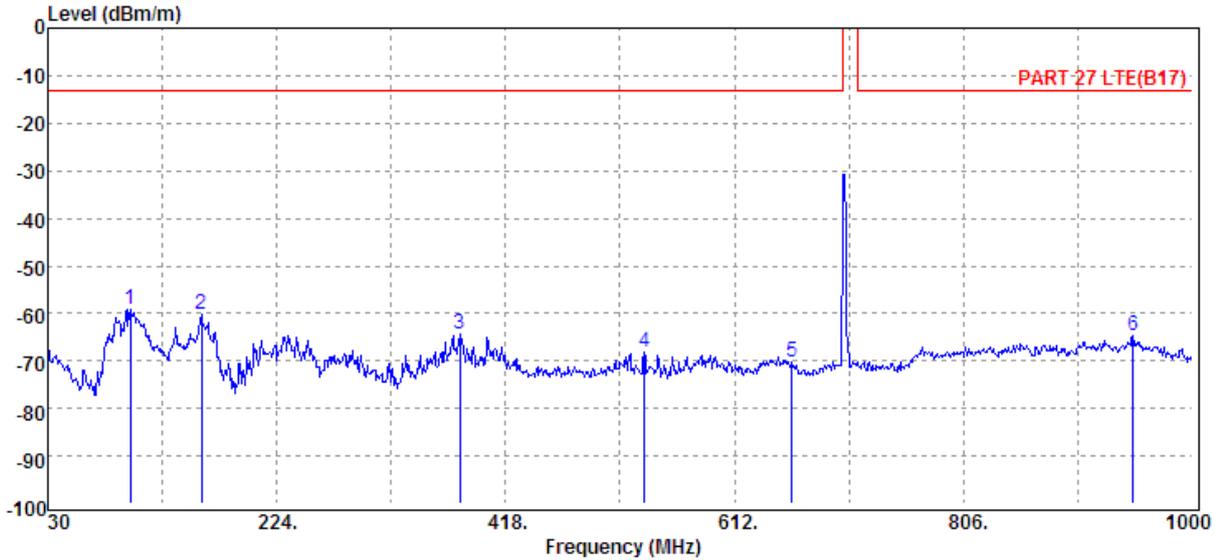
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Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23755 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:706.5 MHz	Engineer	:Allen
Operation Mode	:TX LOW		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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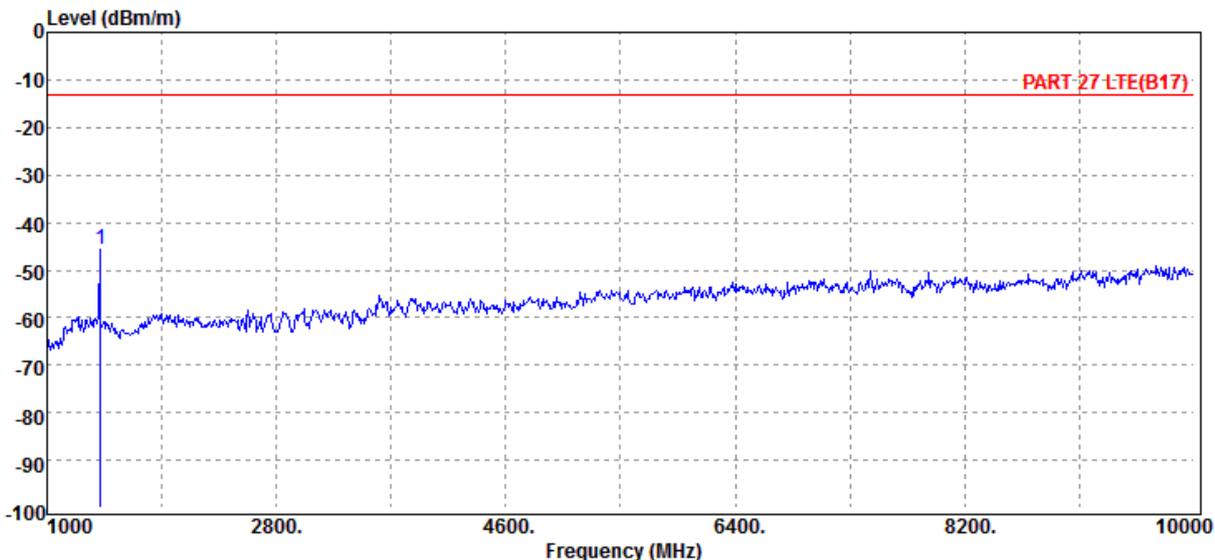
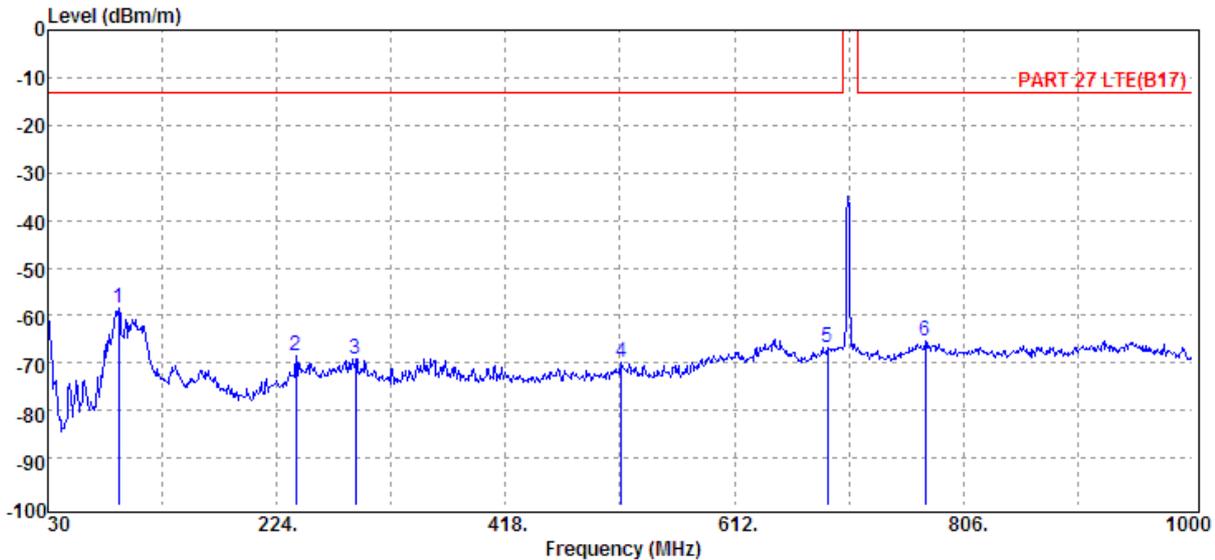
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Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23790 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:710 MHz	Engineer	:Allen
Operation Mode	:TX MID	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		

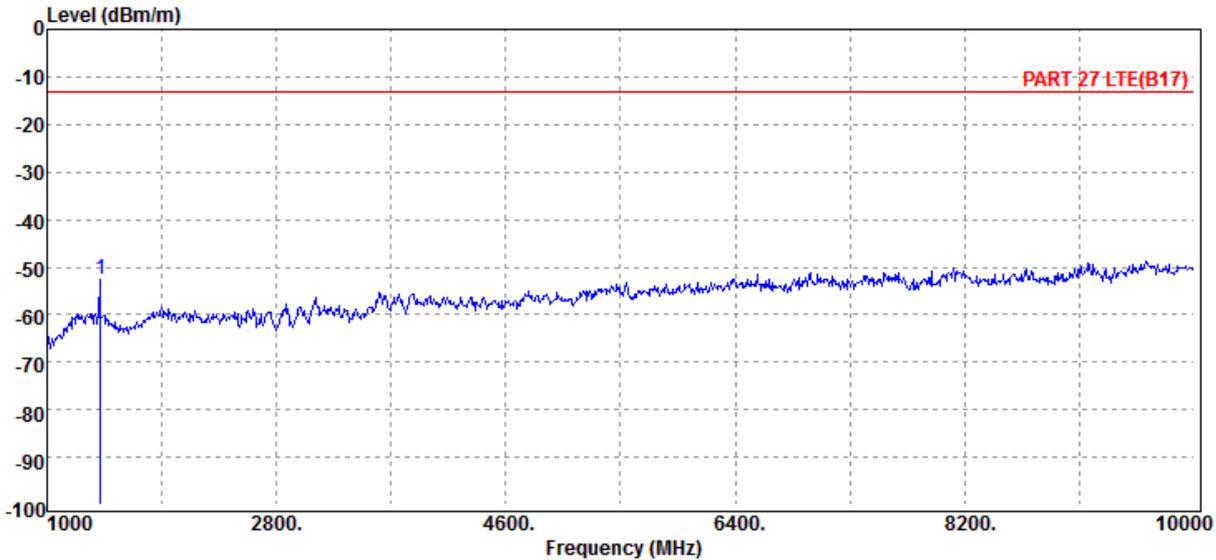
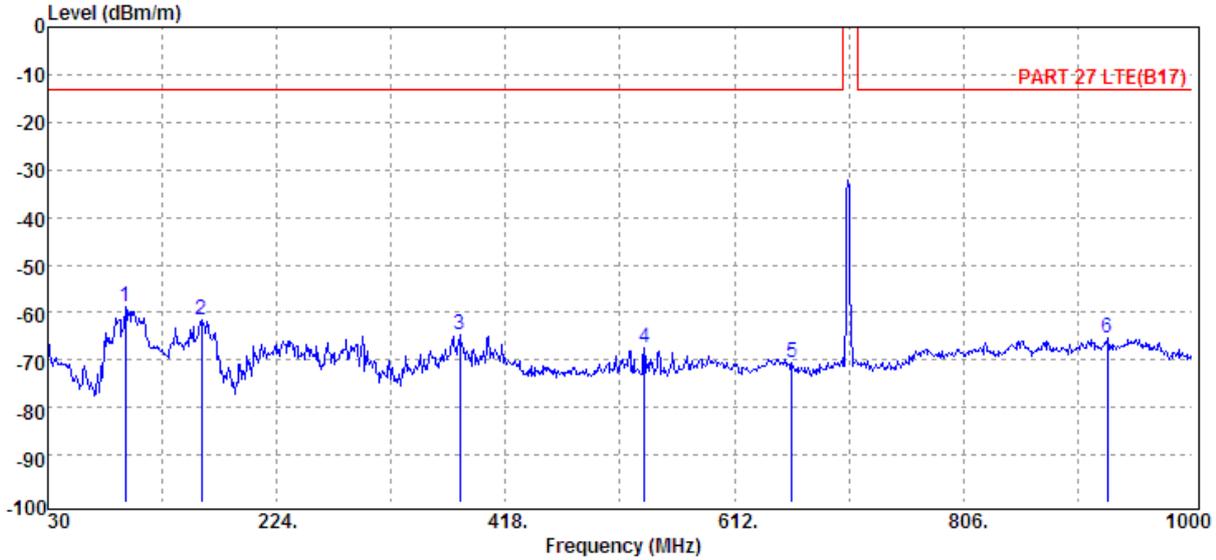


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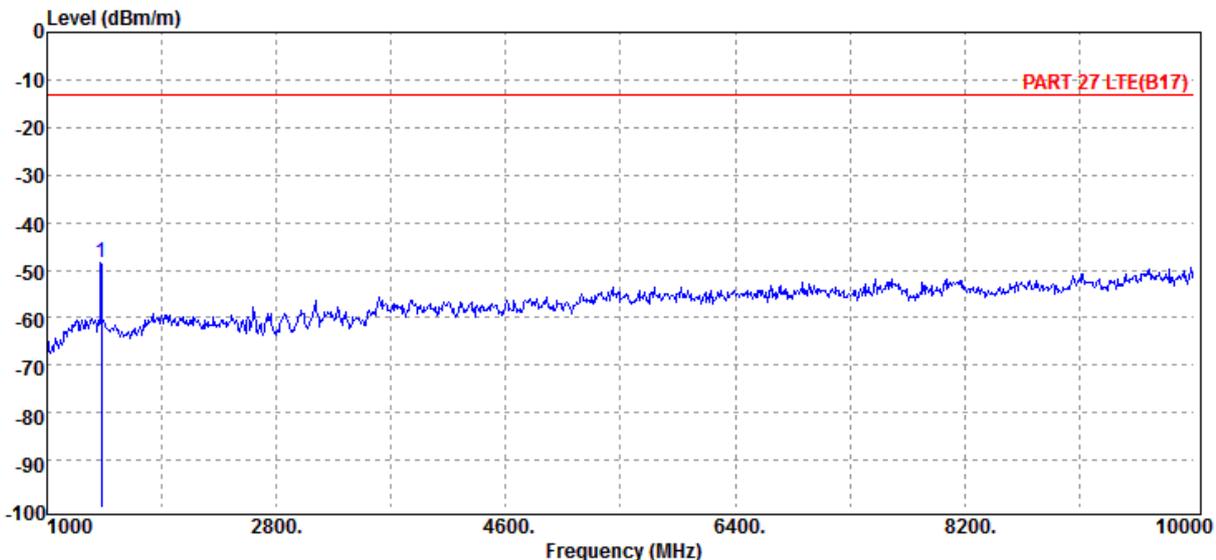
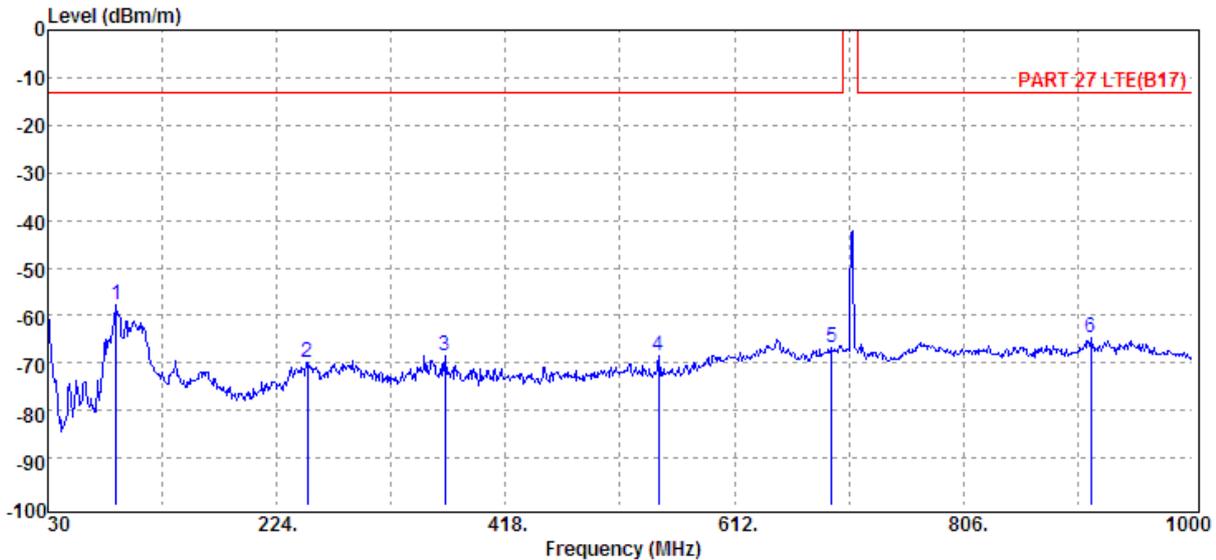
Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23790 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:710 MHz	Engineer	:Allen
Operation Mode	:TX MID		
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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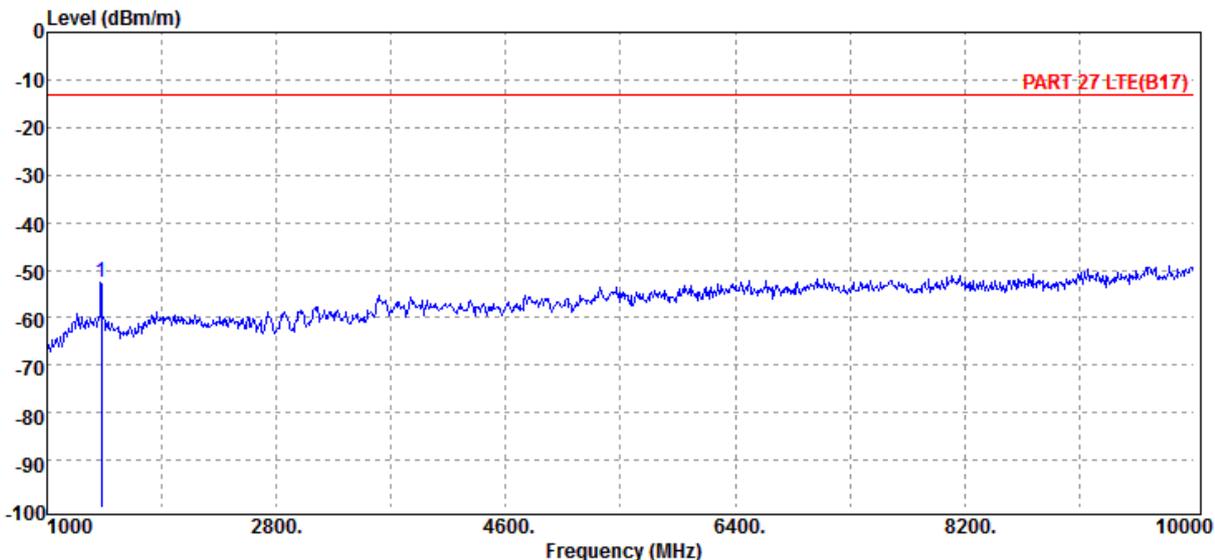
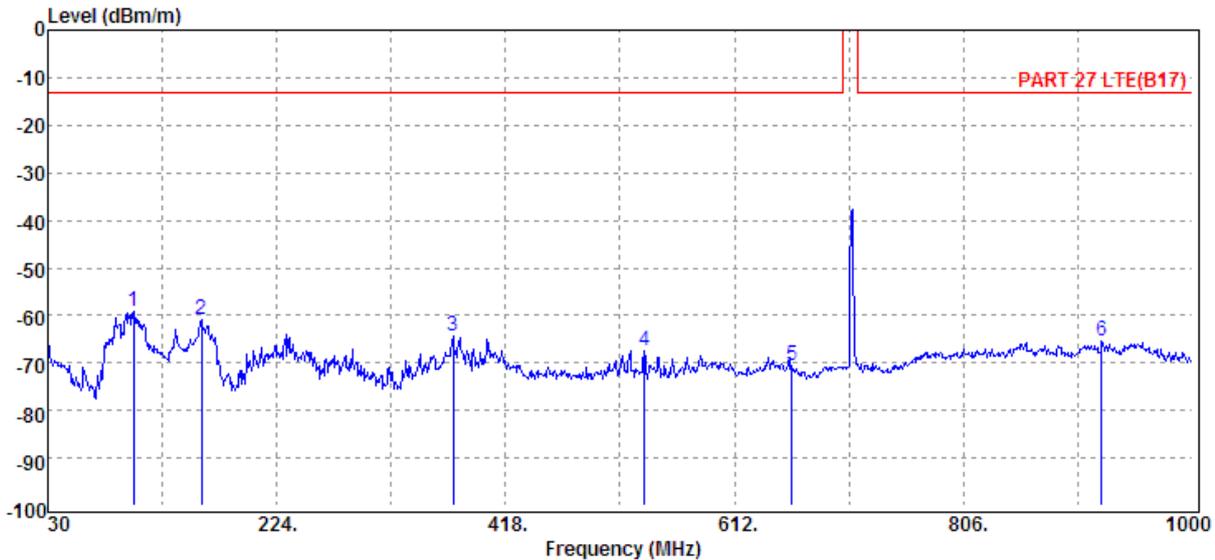
Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23825 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E1 Plane		



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Operation Band	:LTE B17	Test Date	:2014-02-28
ARFCN	:CH 23825 16QAM BW 5 RB 1 0	Temp./Humi.	:24 deg_C / 59 RH
Fundamental Frequency	:713.5 MHz	Engineer	:Allen
Operation Mode	:TX HIGH	Measurement Antenna Pol.	:HORIZONTAL
EUT Pol.	:E1 Plane		



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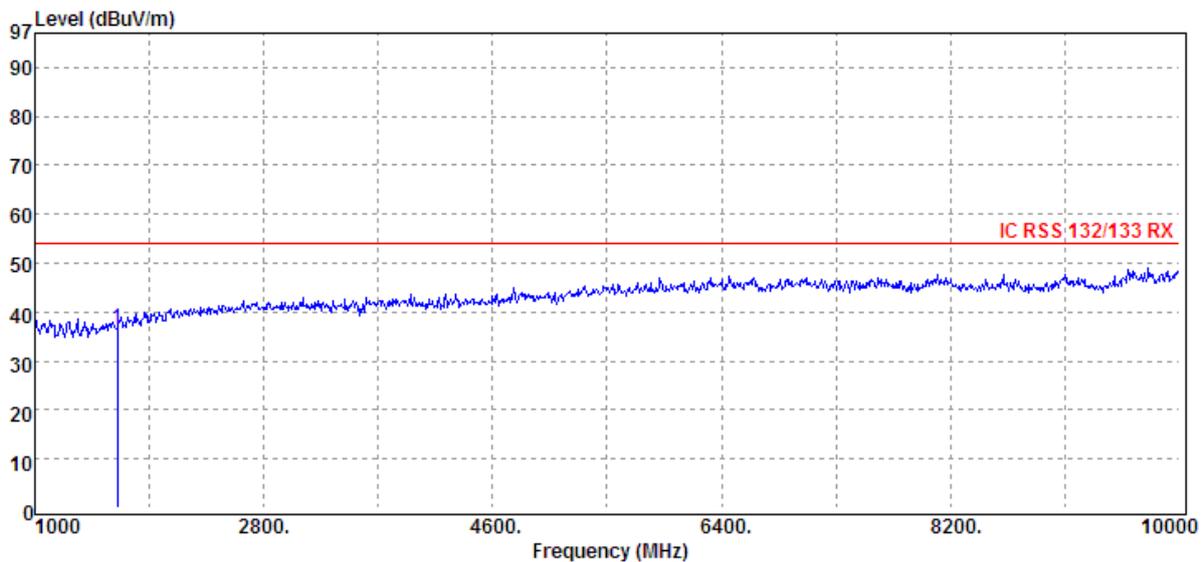
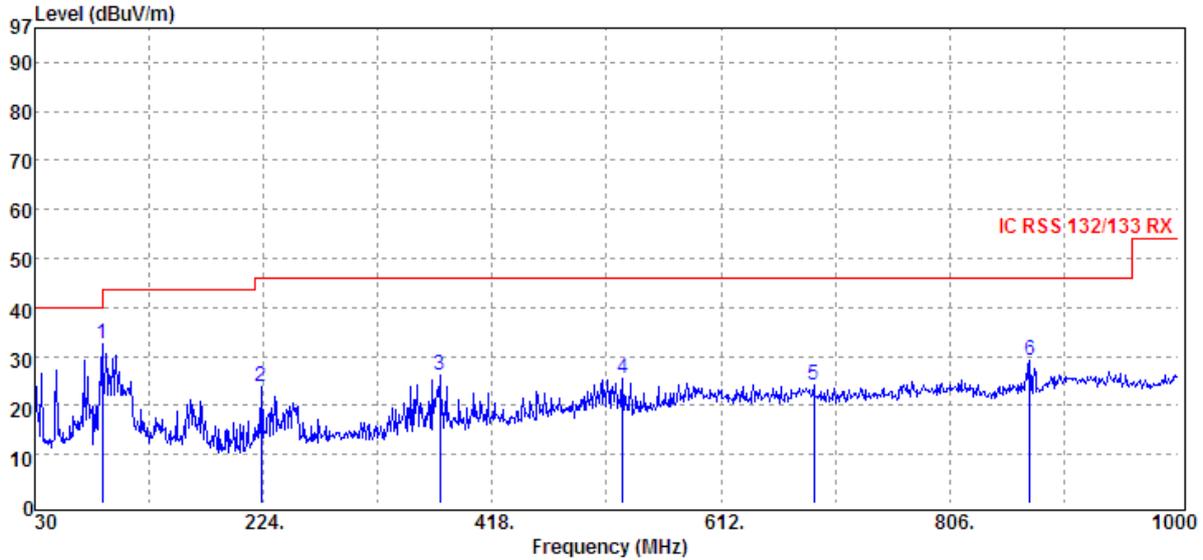
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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

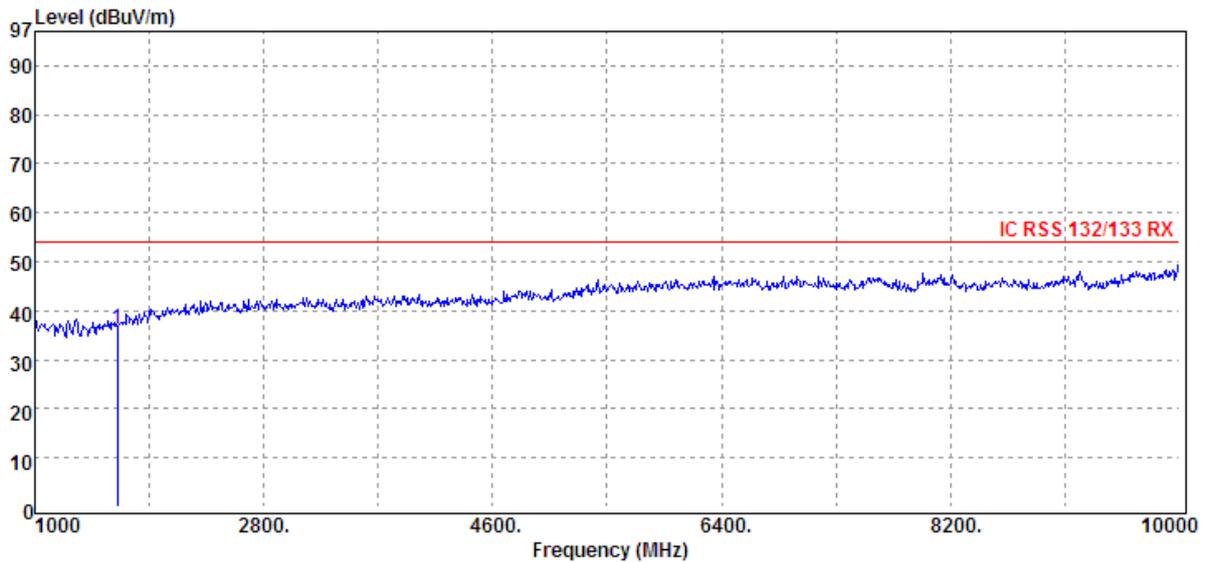
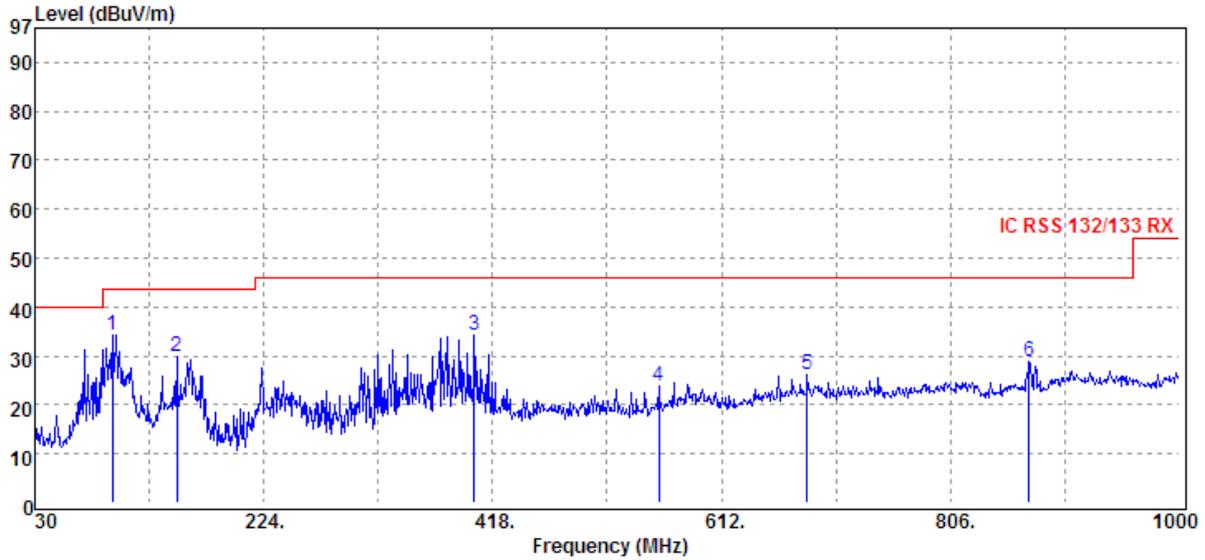
Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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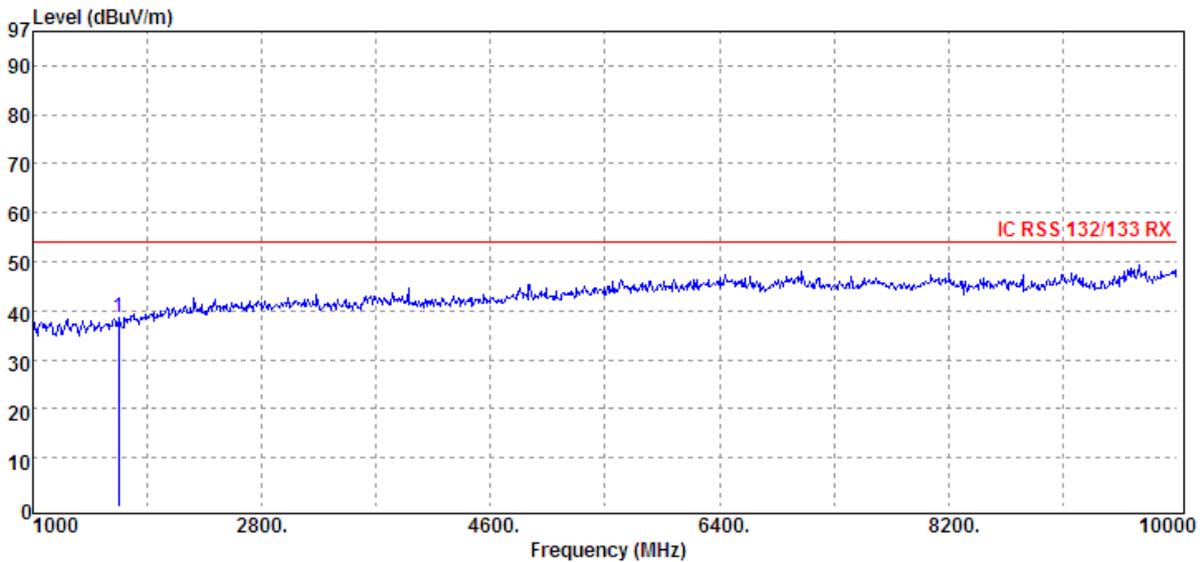
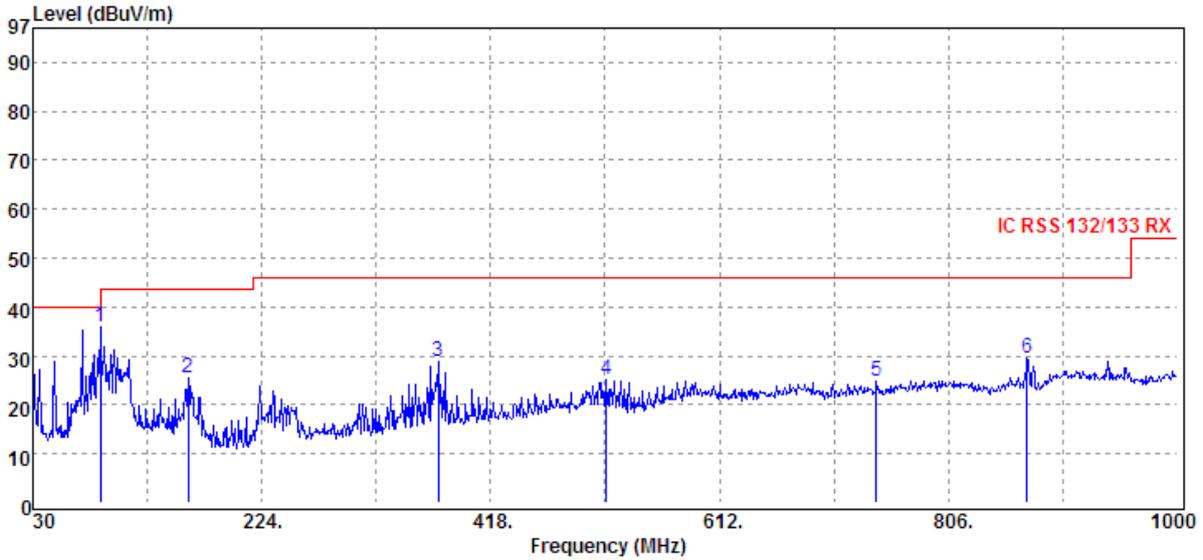
Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:824.2 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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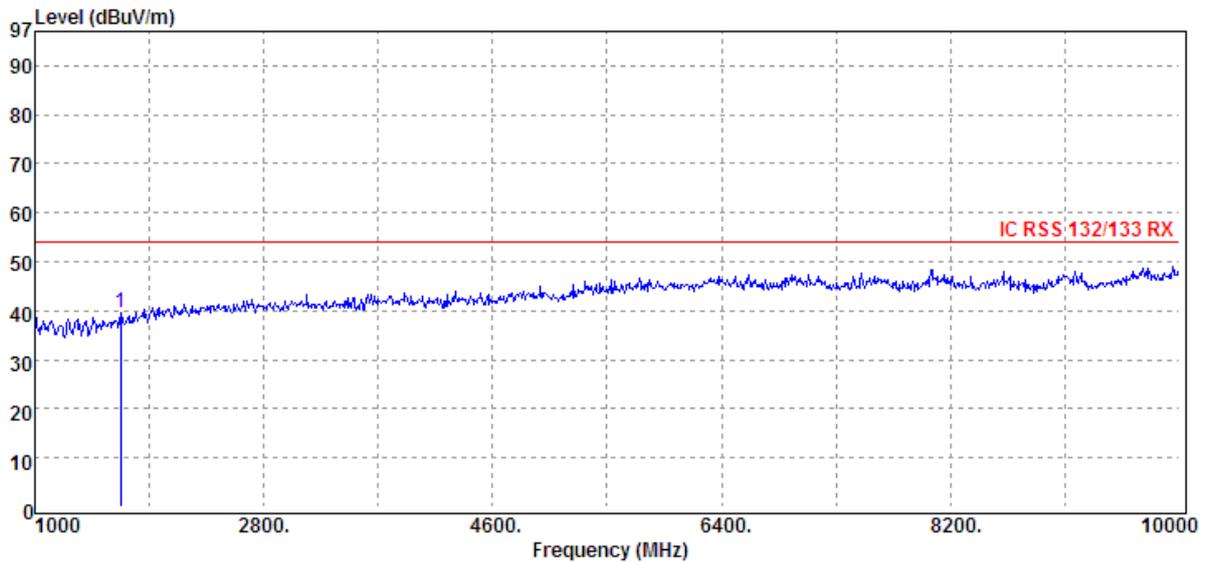
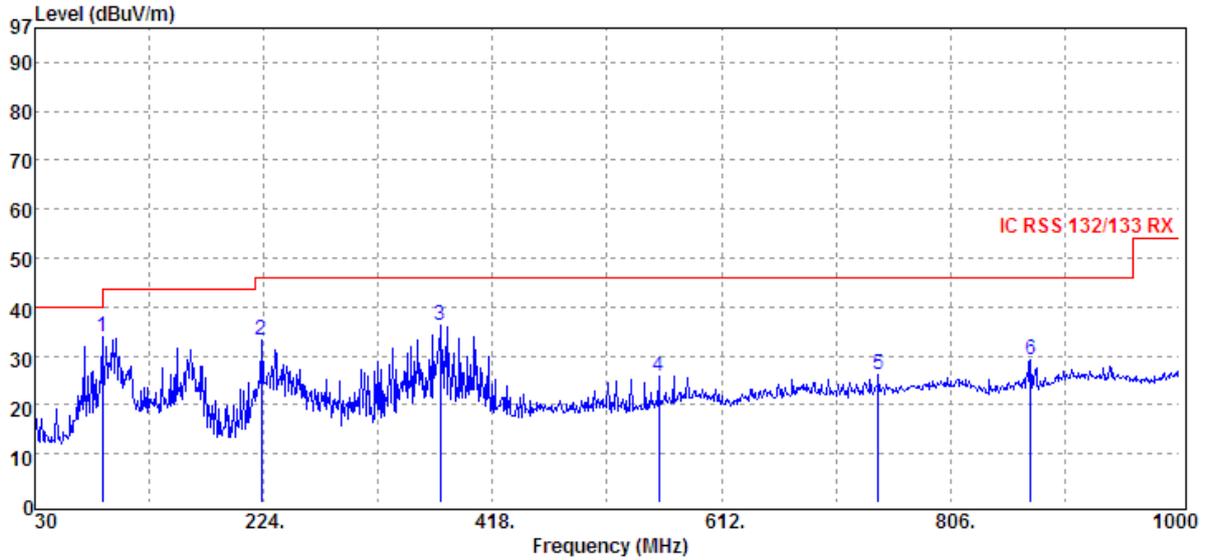
Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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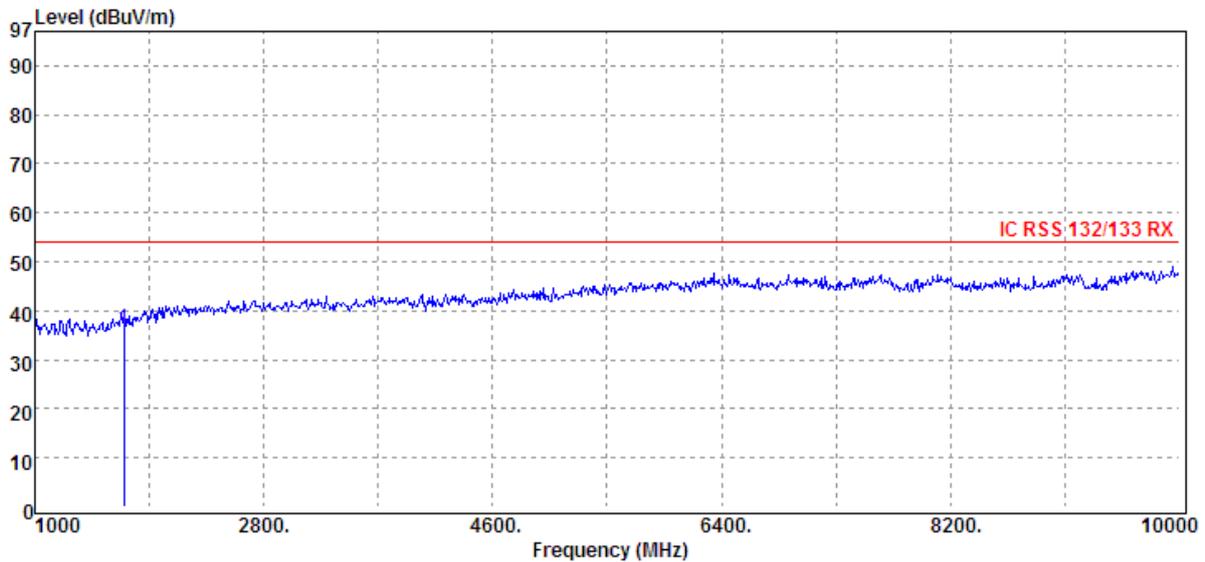
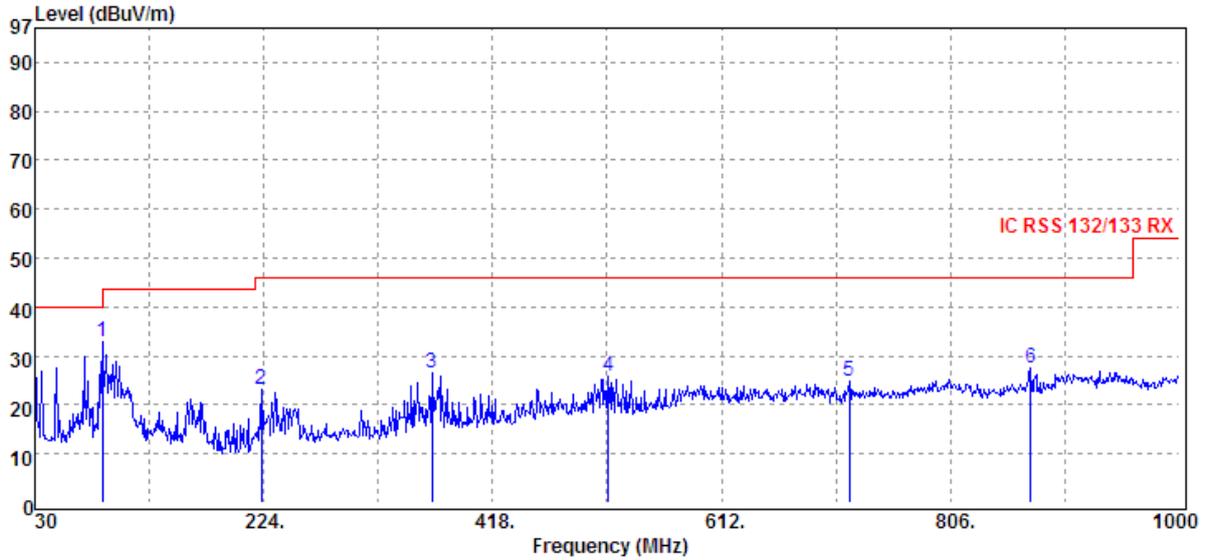
Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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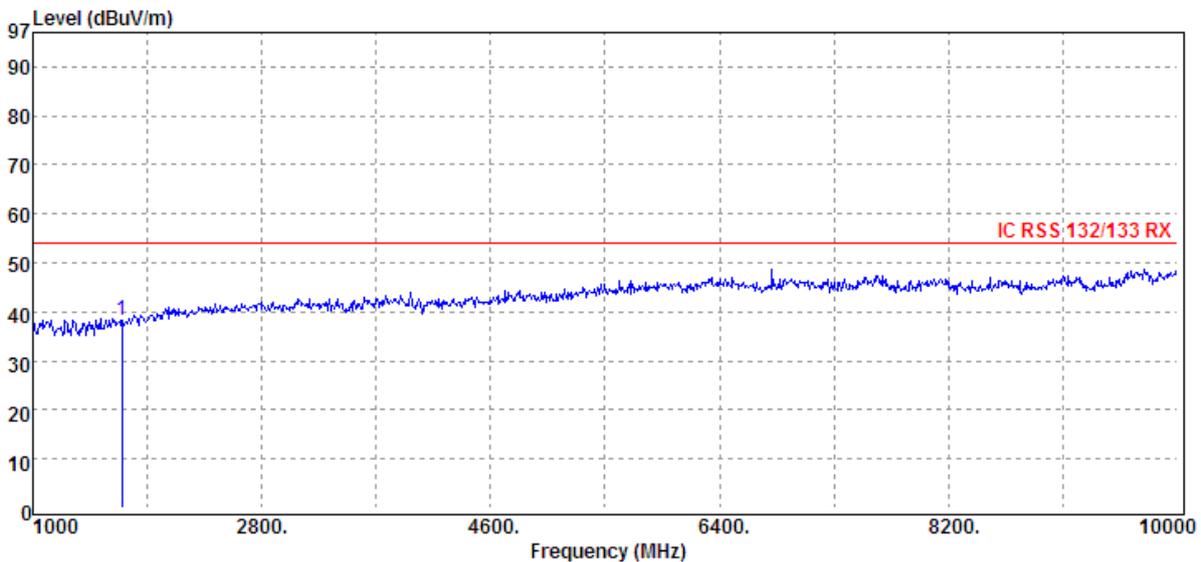
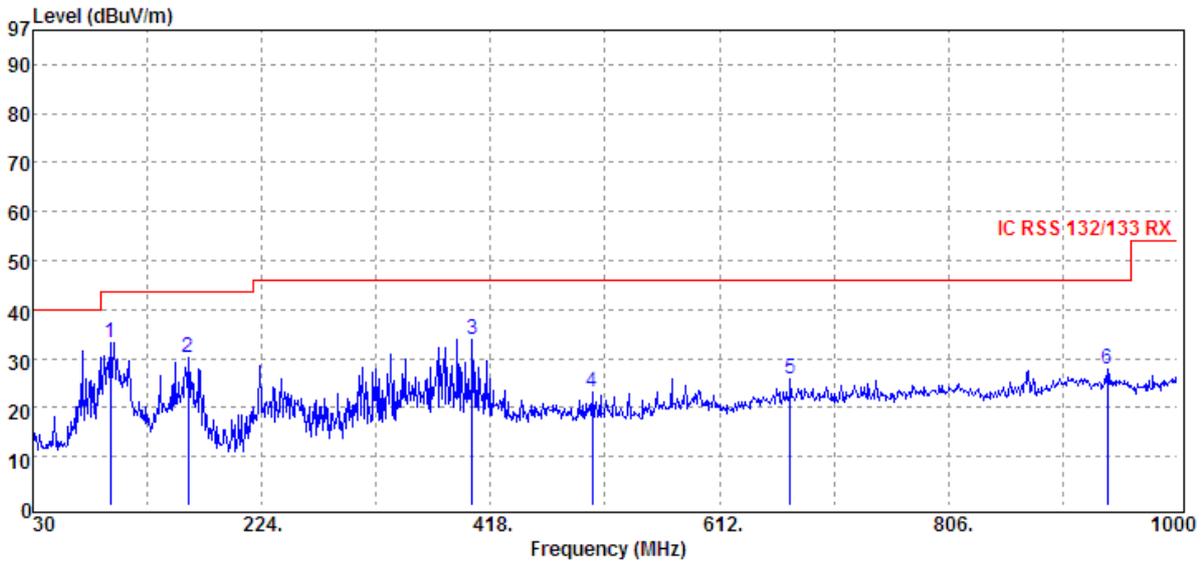
Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Band	:GSM 850	Test Date	:2014-03-01
Fundamental Frequency	:848.8 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

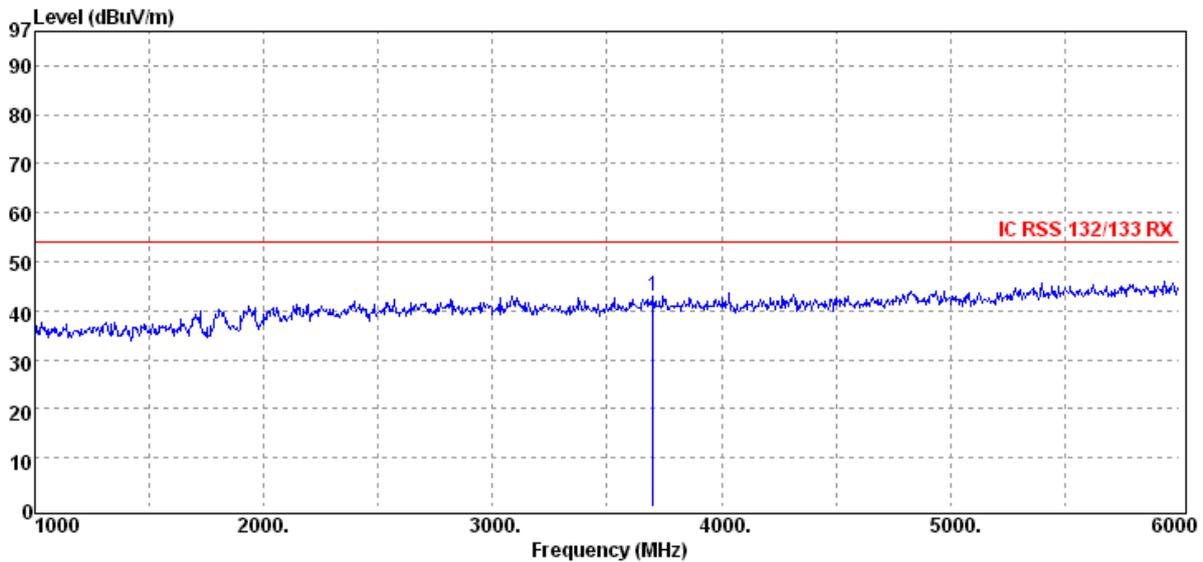
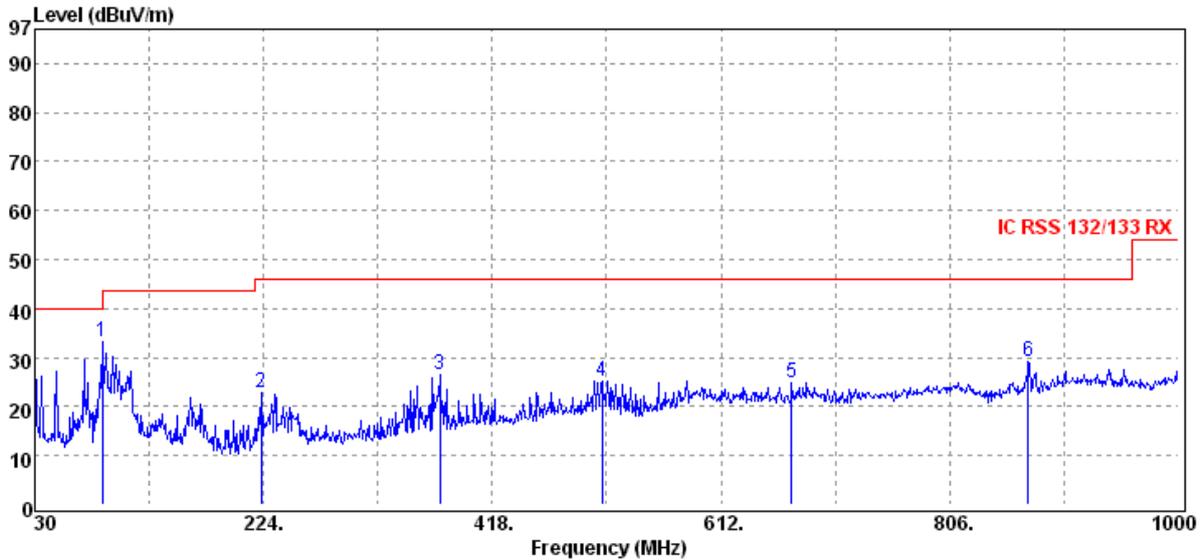


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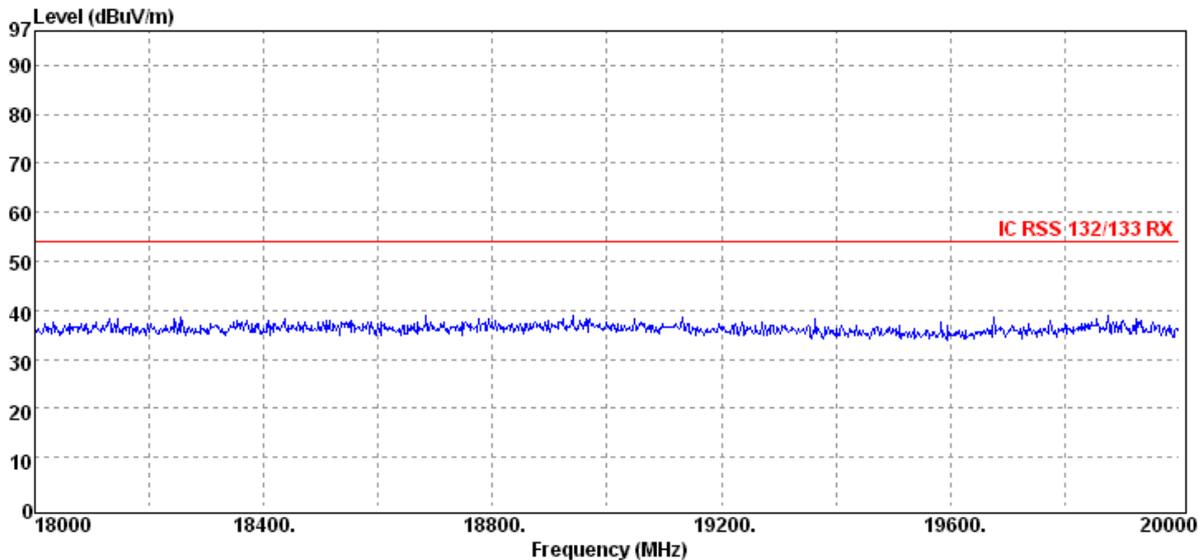
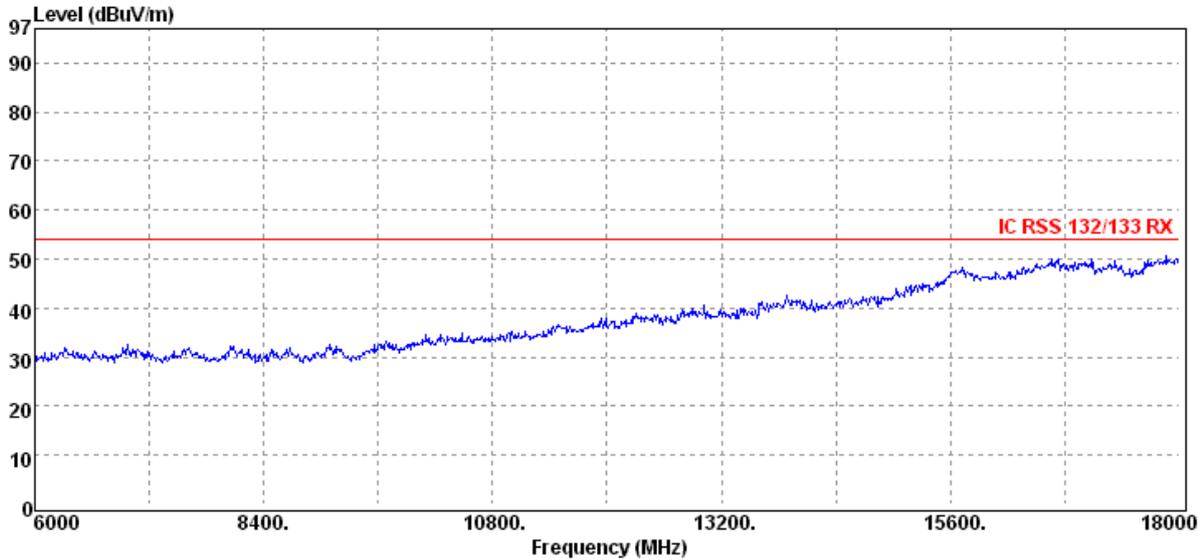
**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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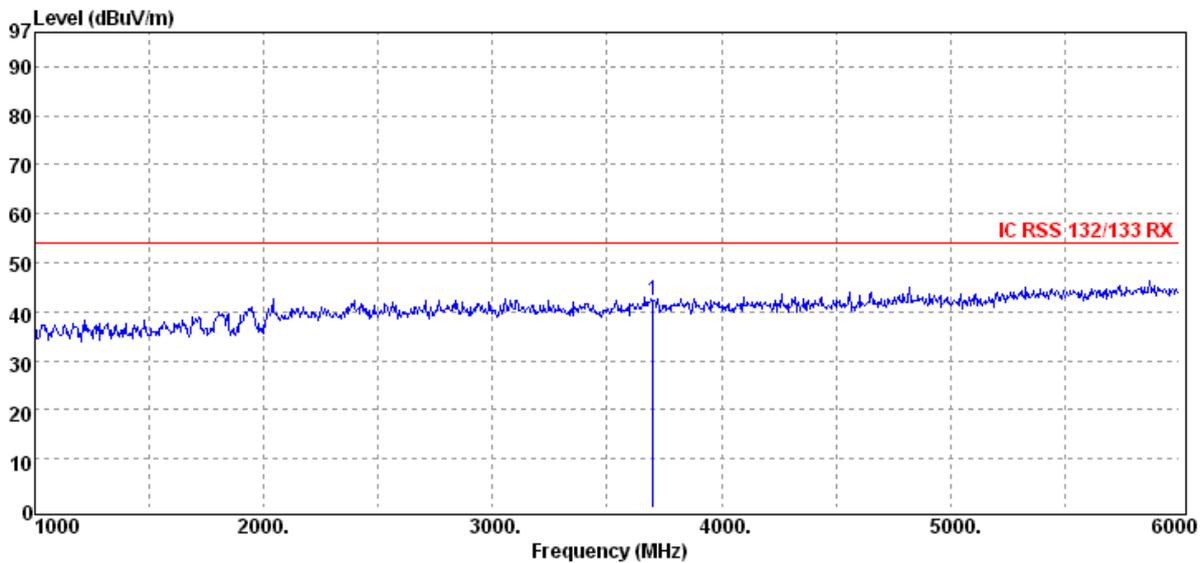
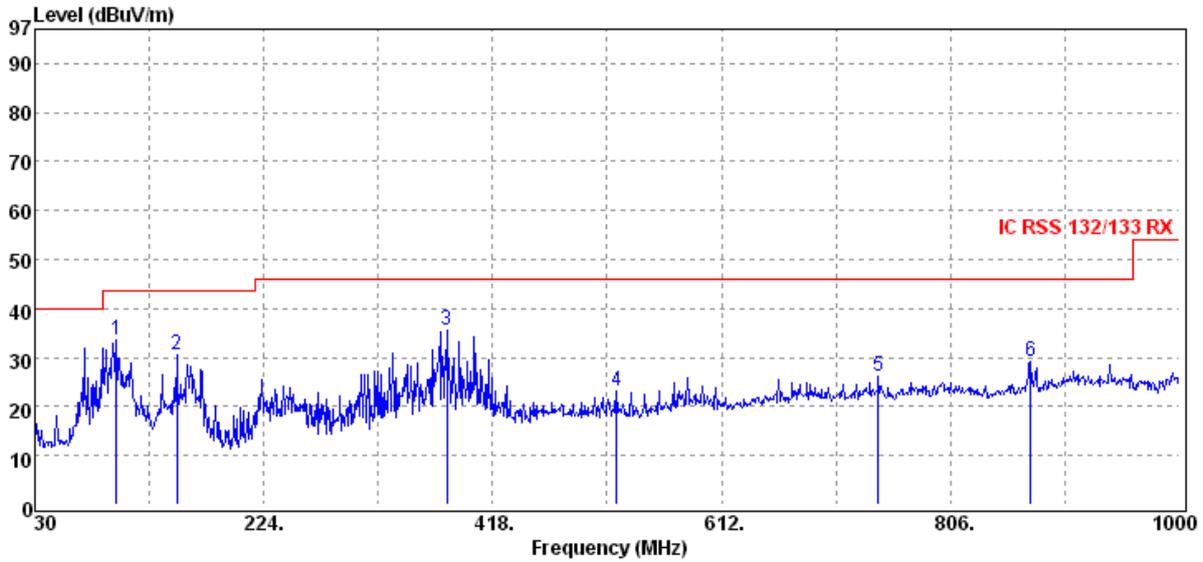
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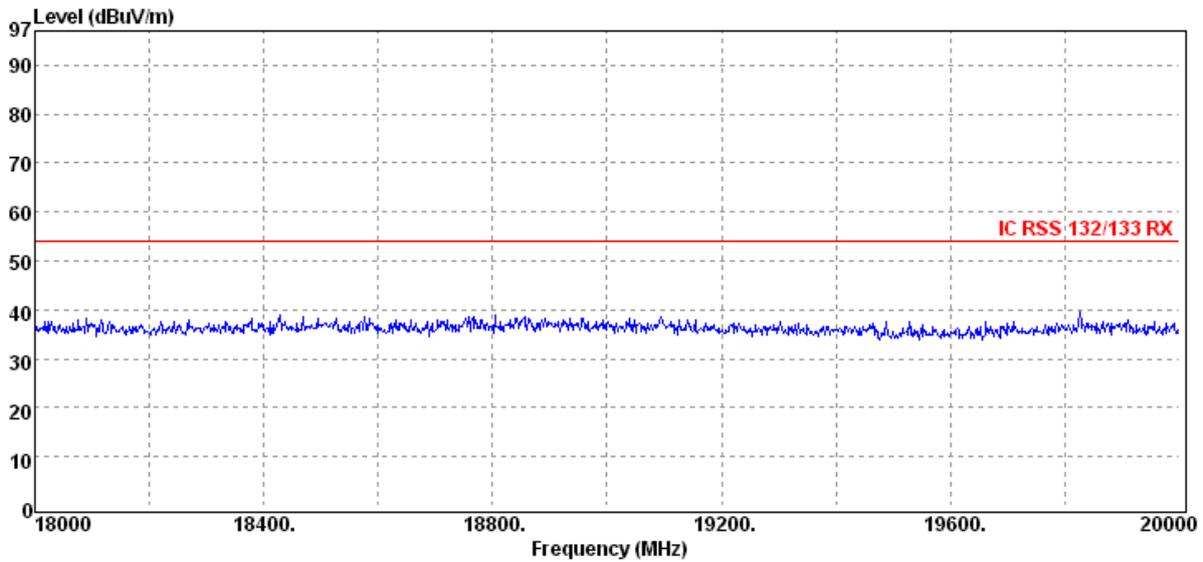
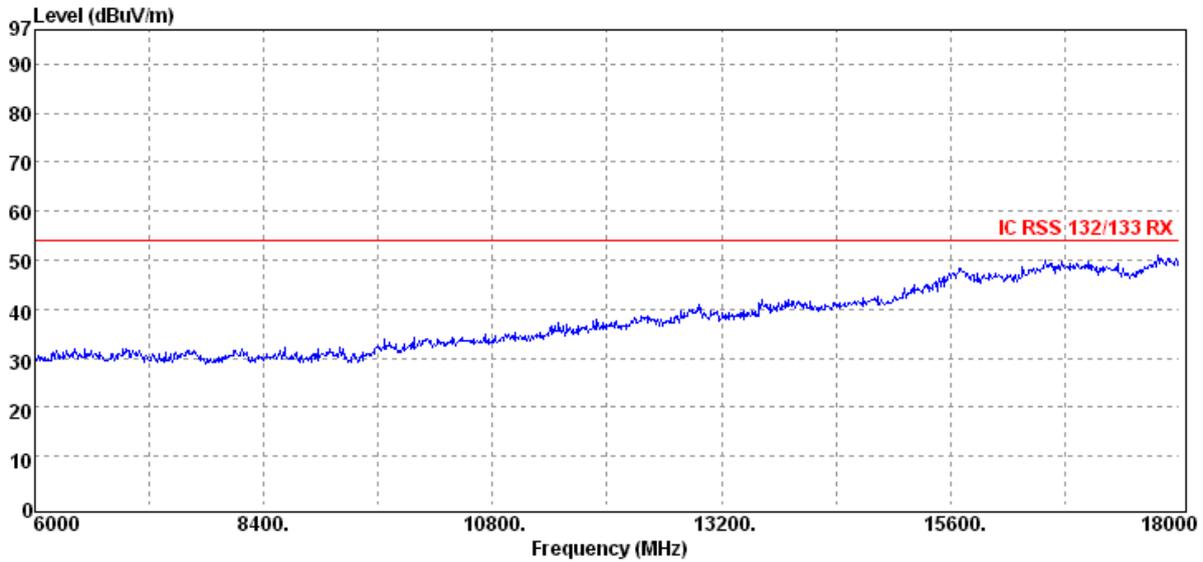
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1850.2 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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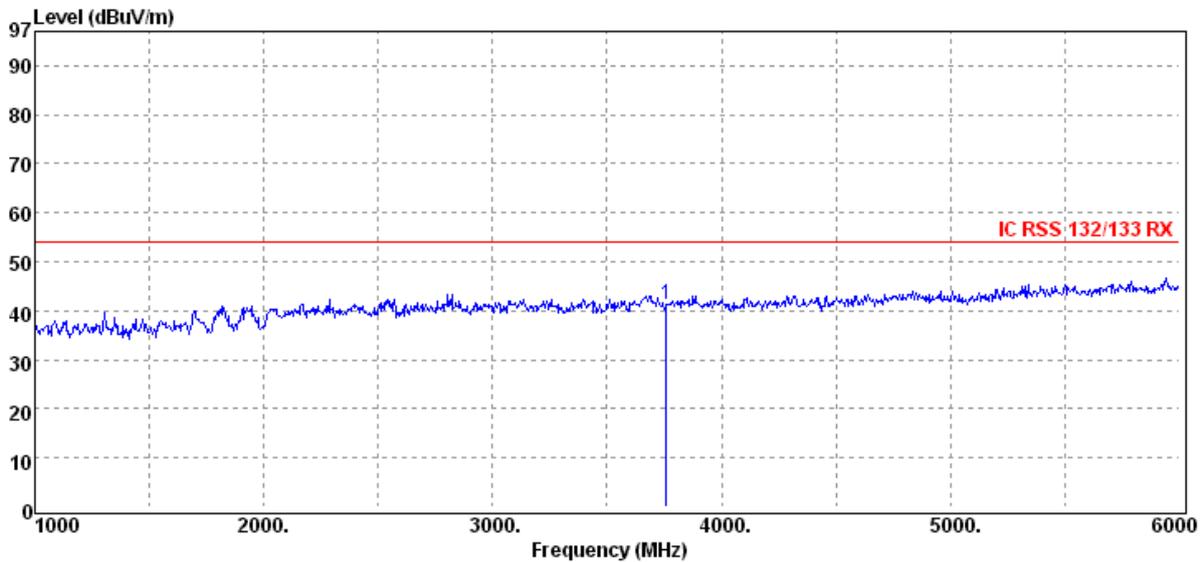
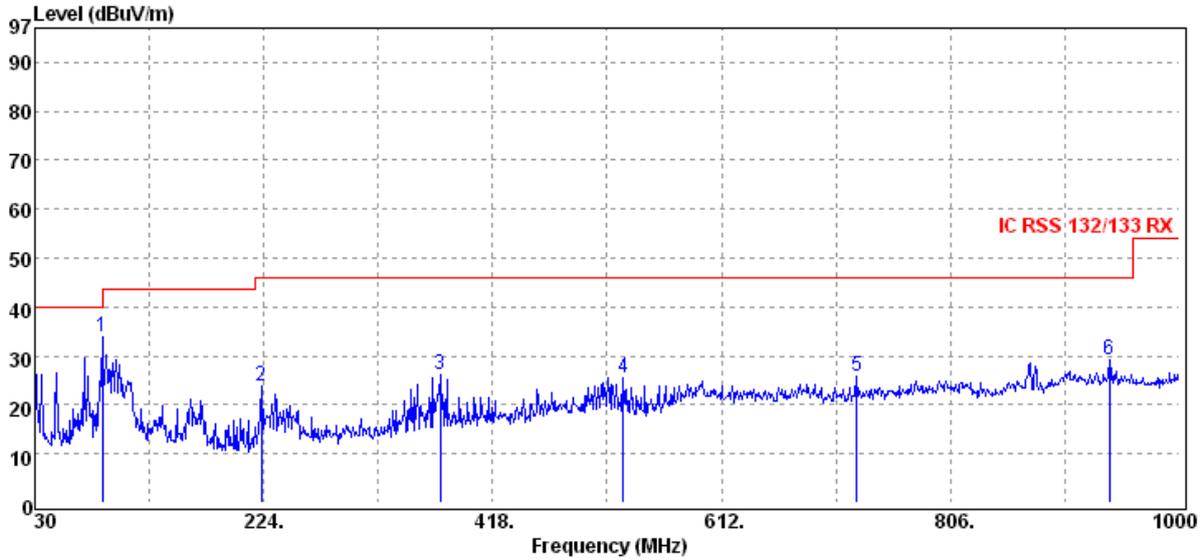
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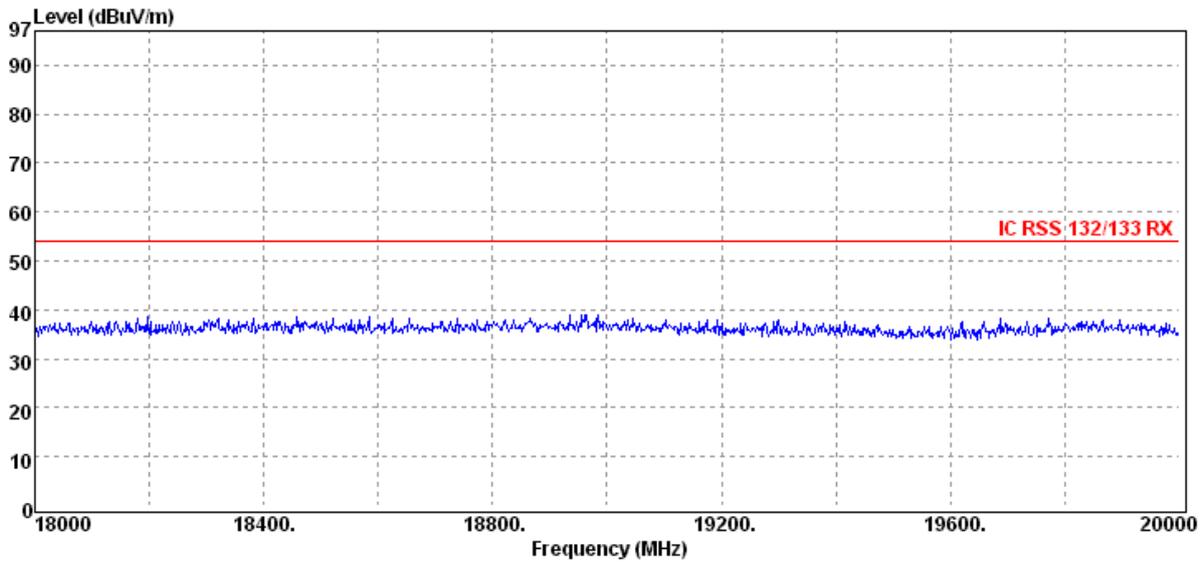
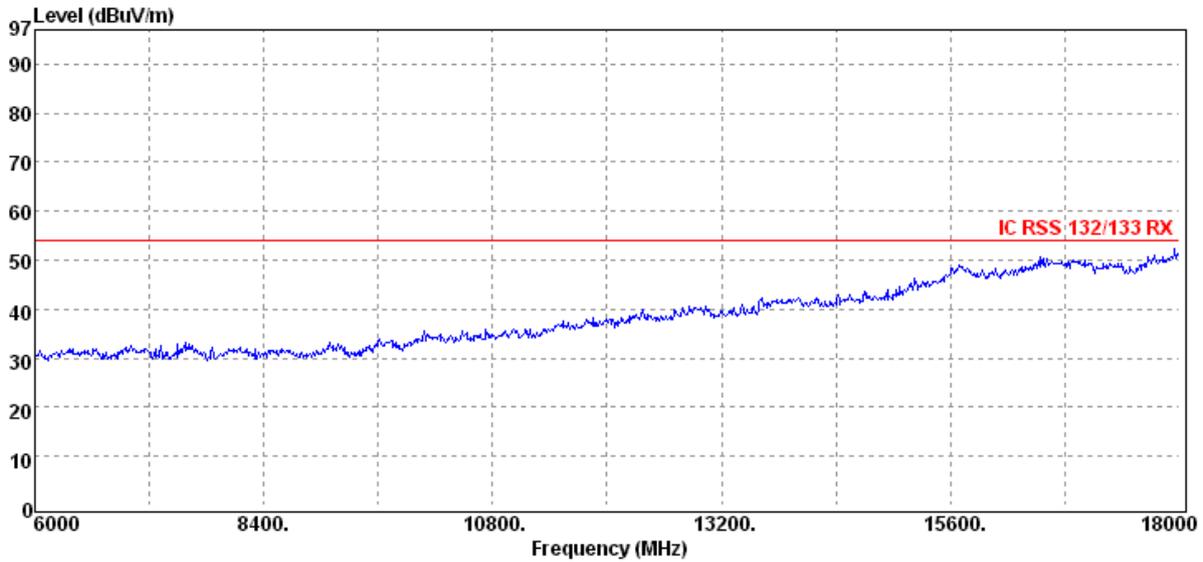
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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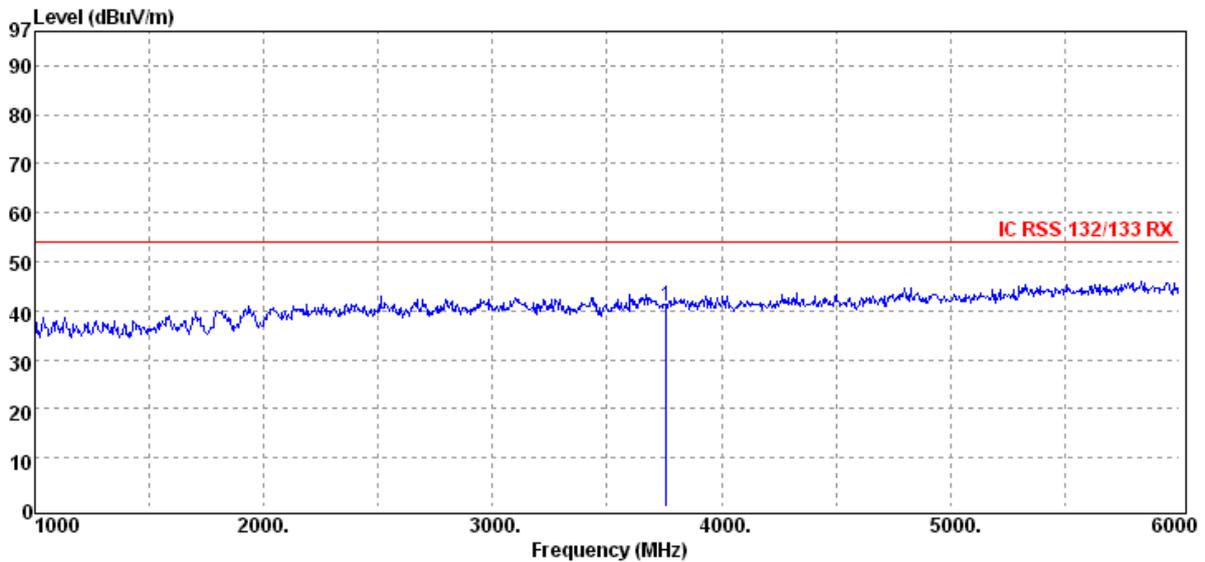
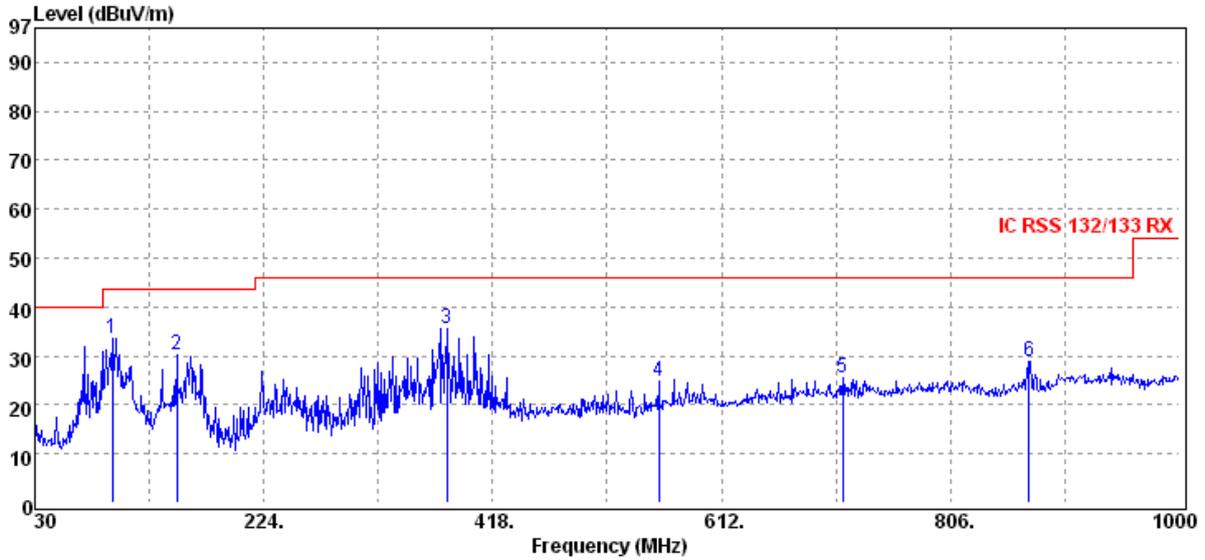
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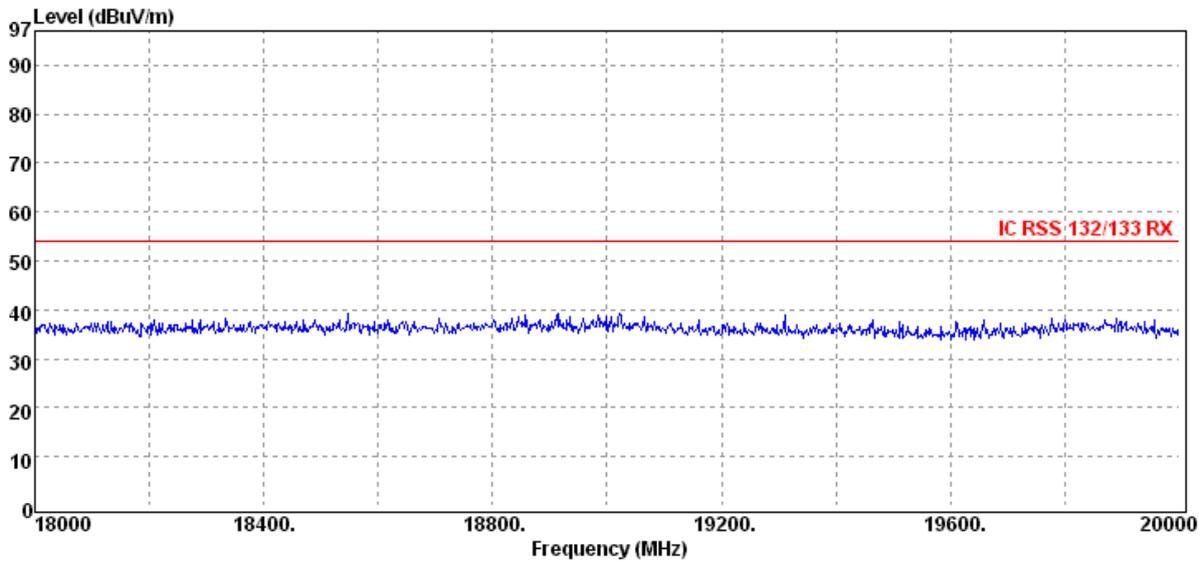
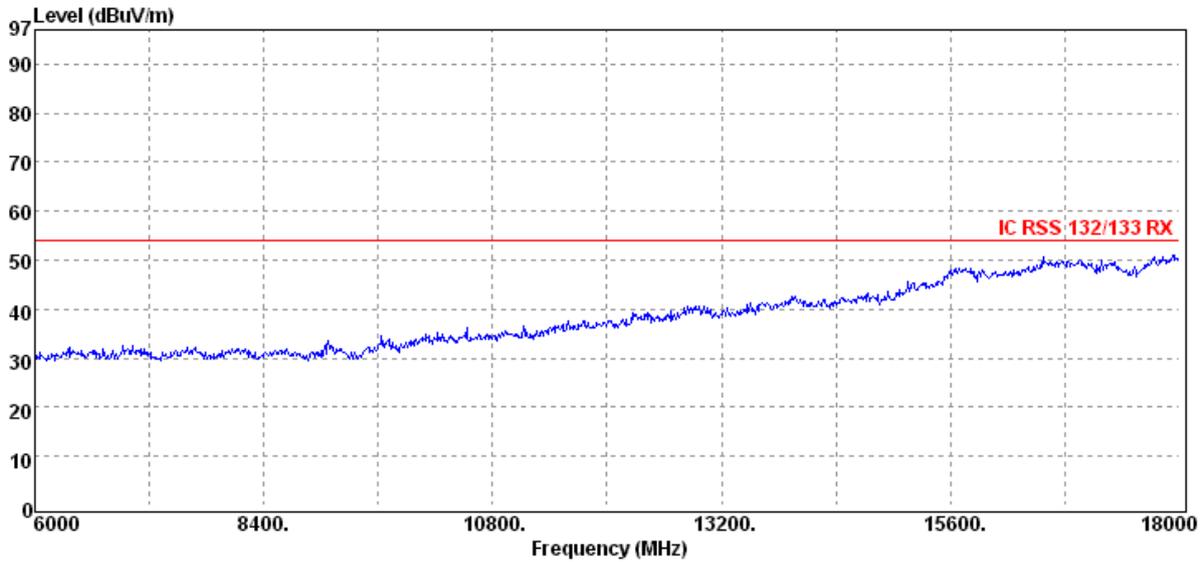
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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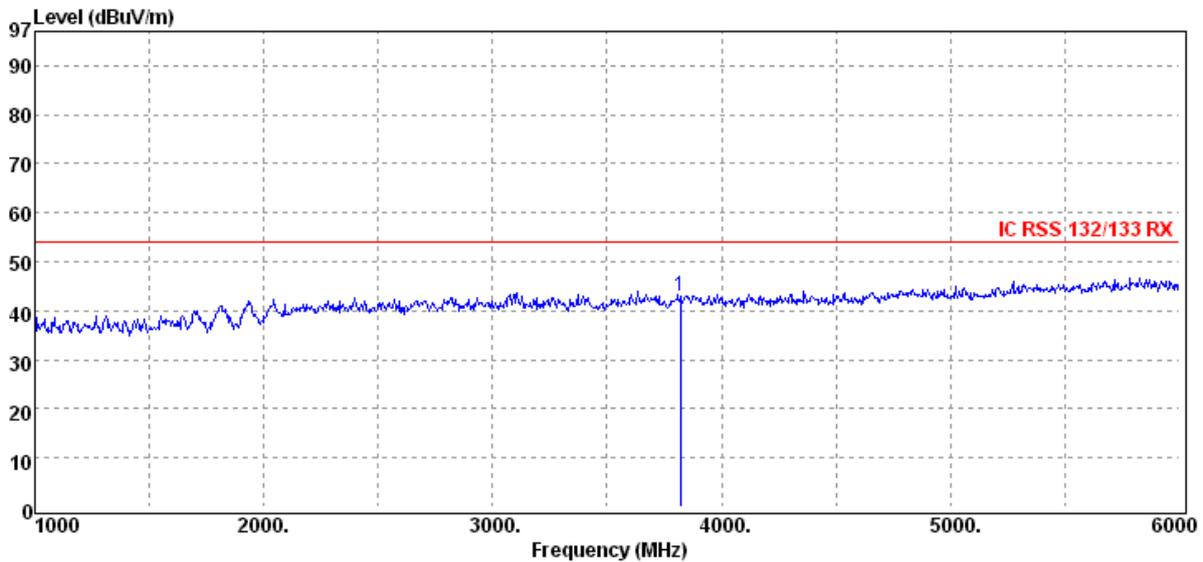
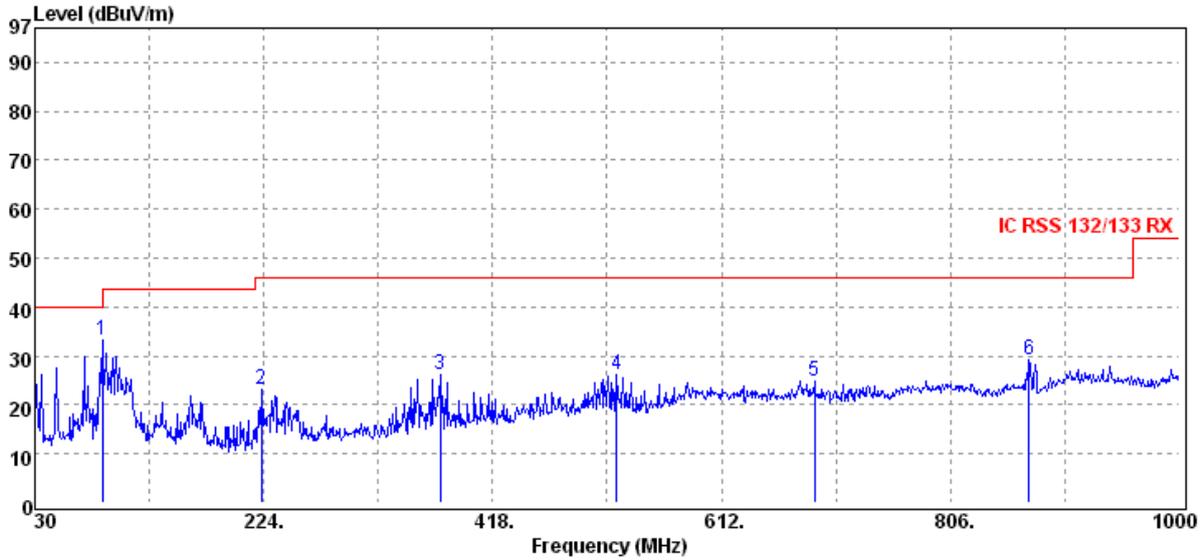
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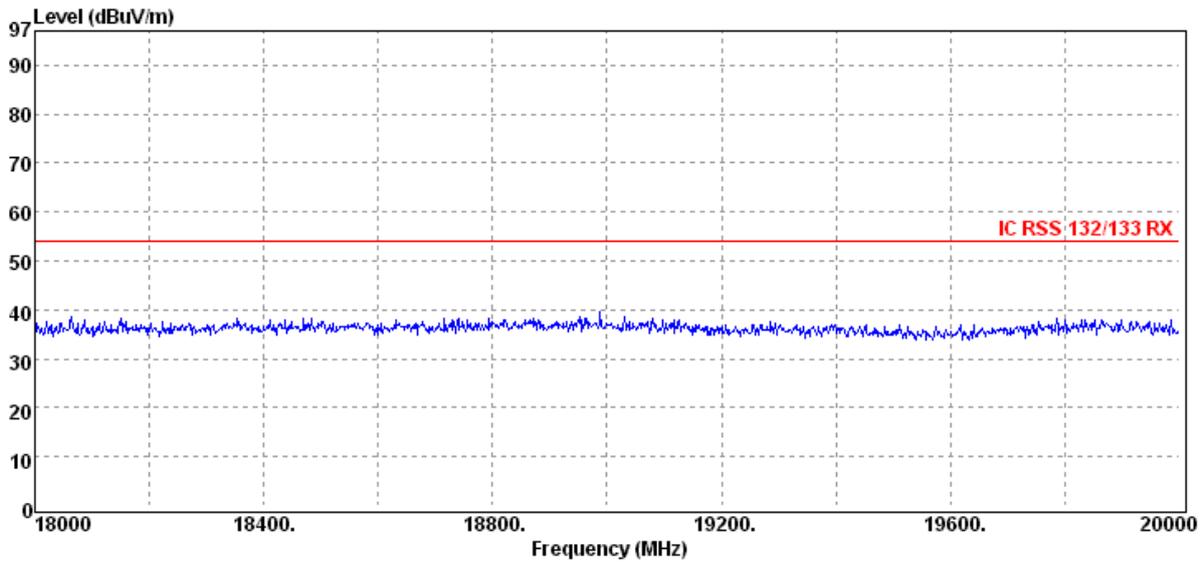
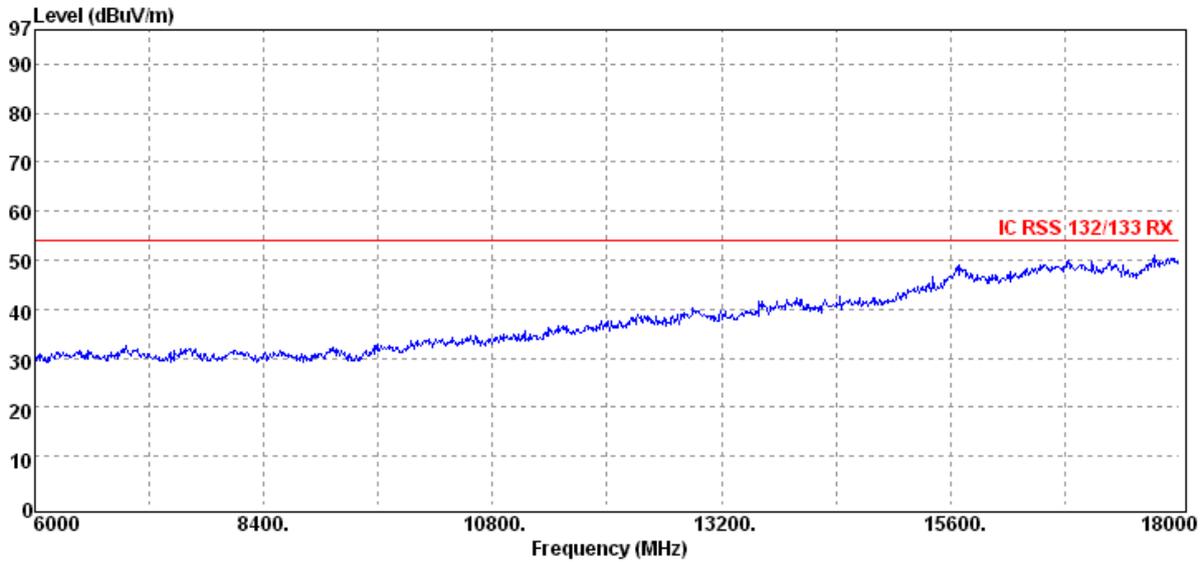
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Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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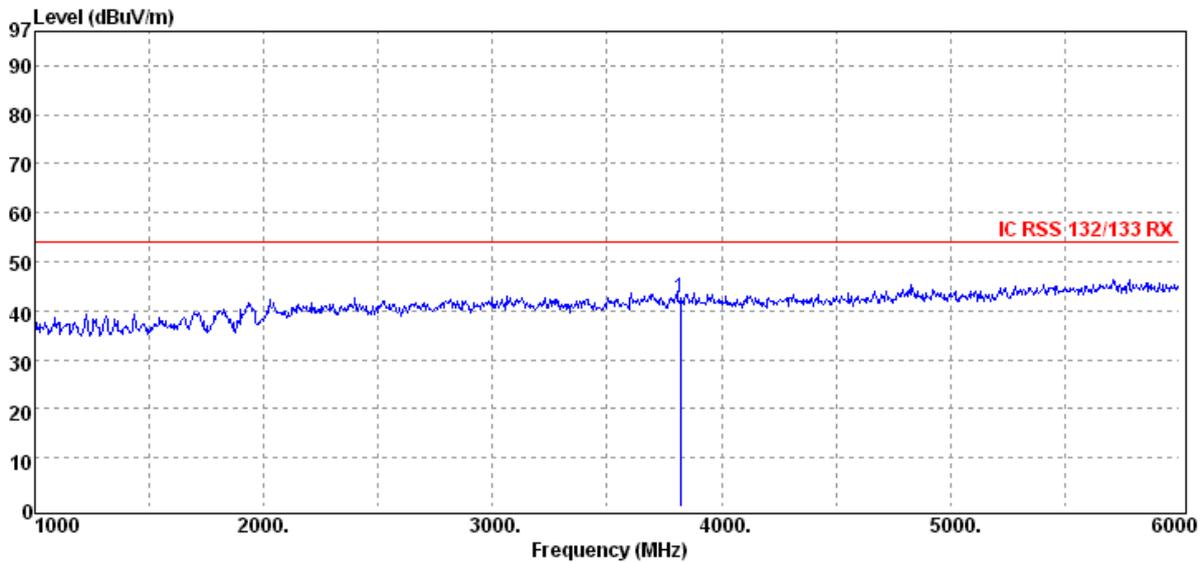
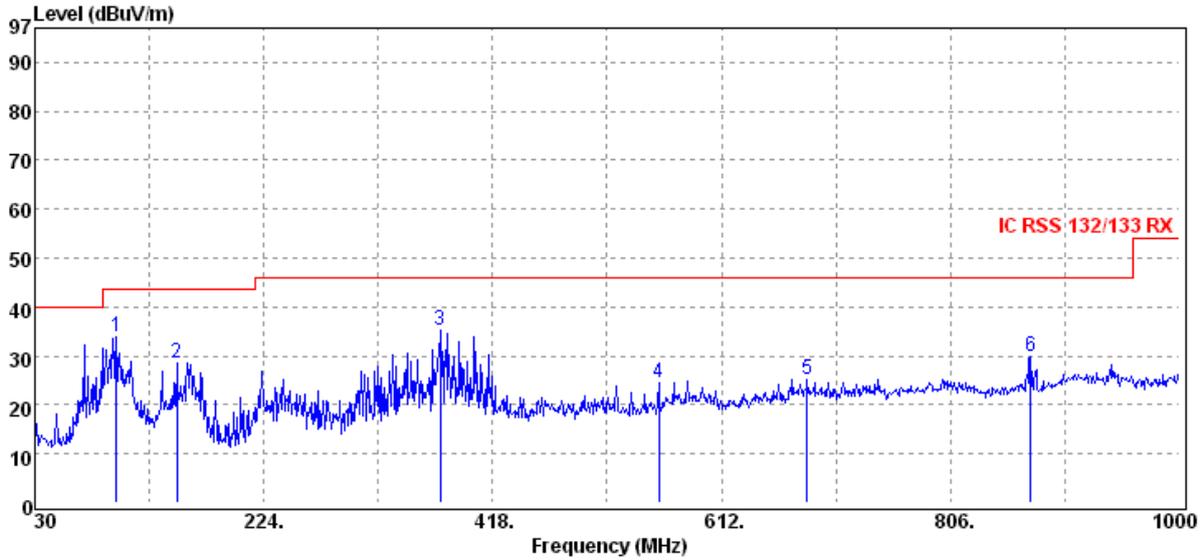
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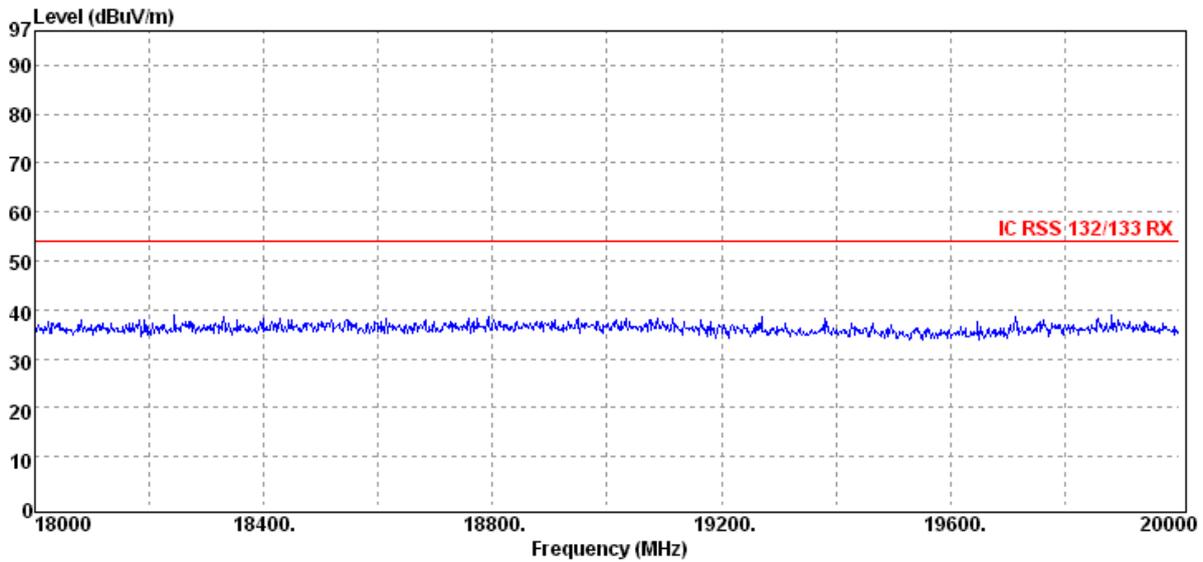
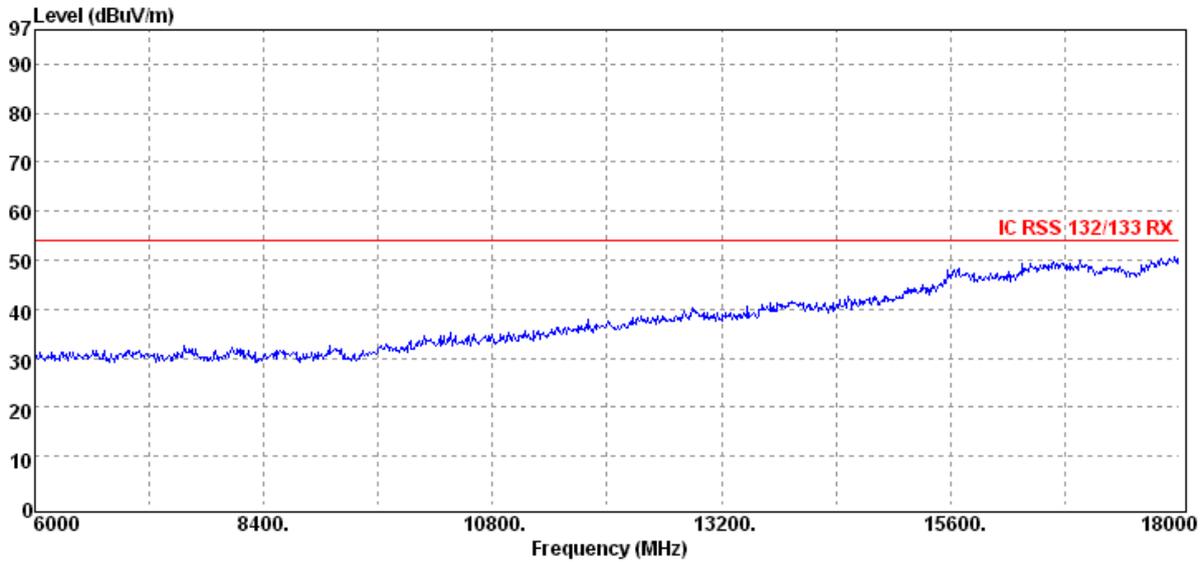
Operation Band	:GPRS 1900	Test Date	:2014-03-01
Fundamental Frequency	:1909.8 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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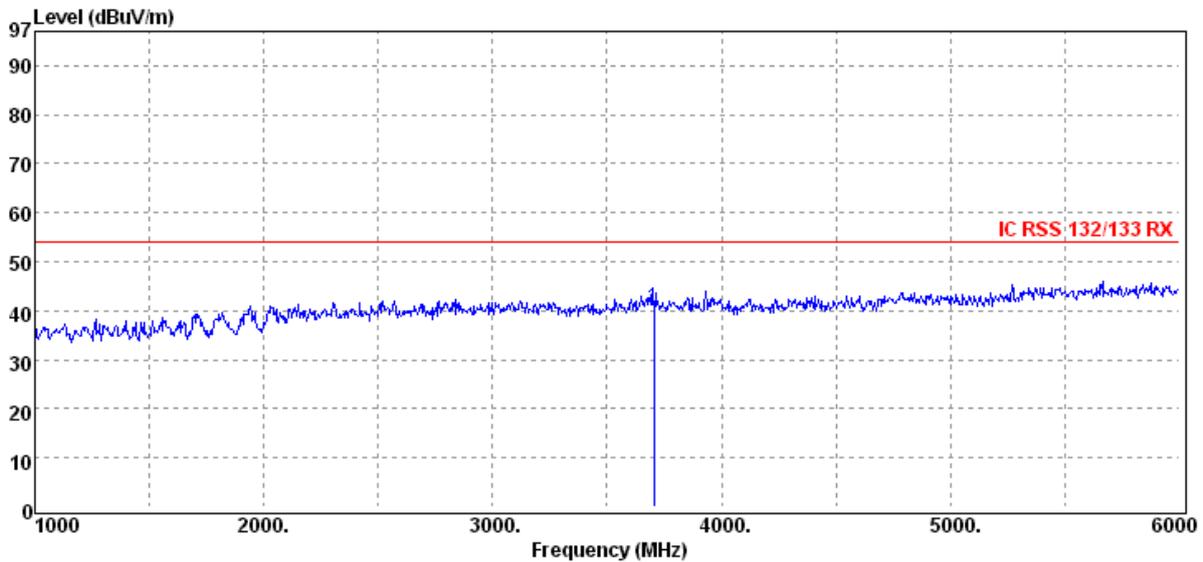
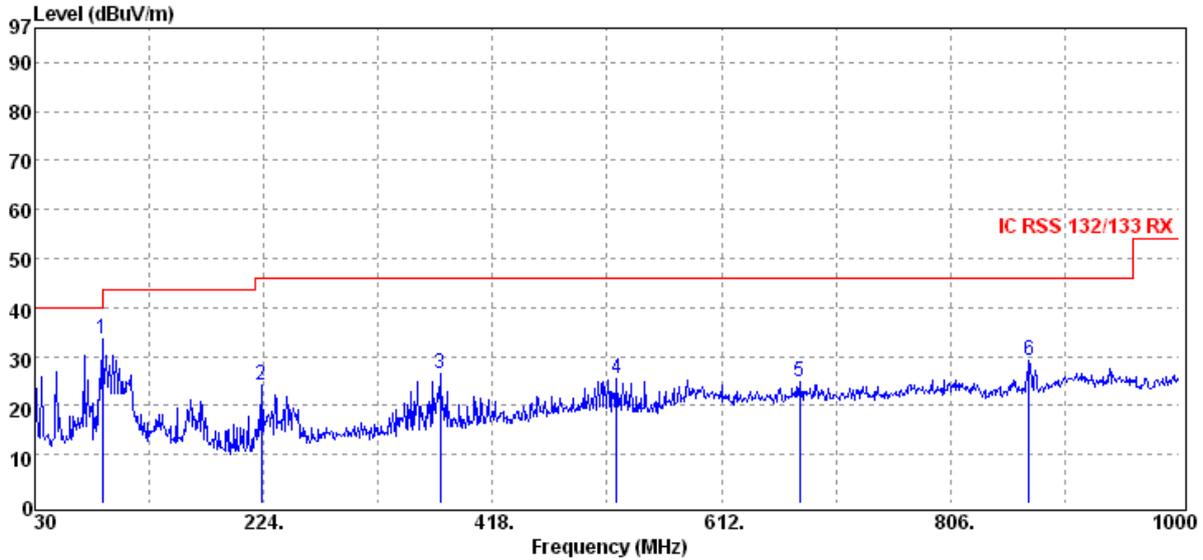
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**Radiated Spurious Emission Measurement Result: HSDPA II Mode**

Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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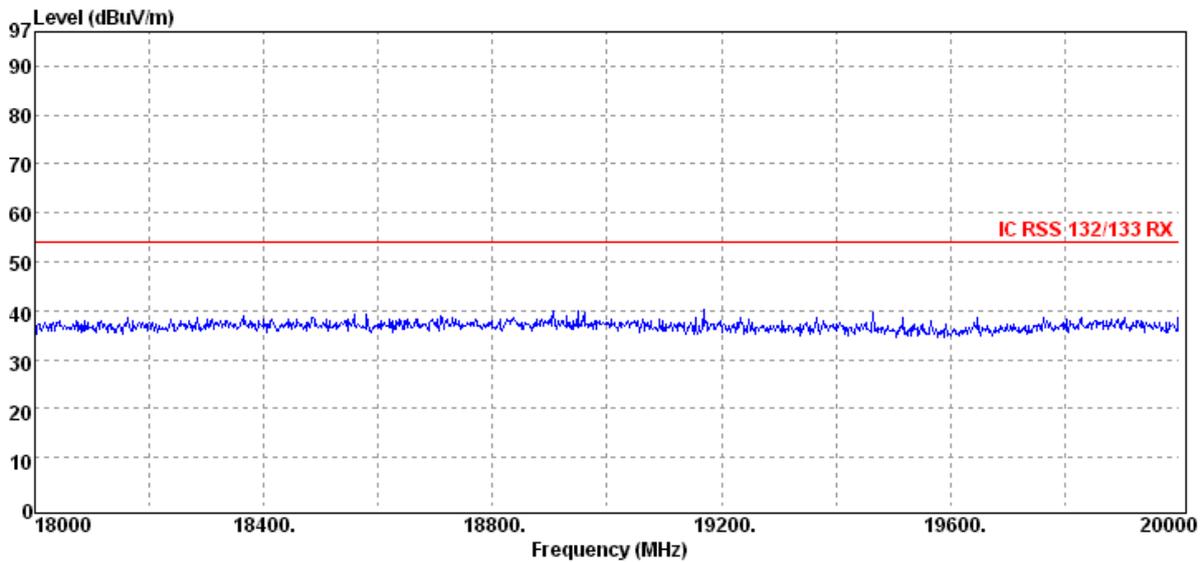
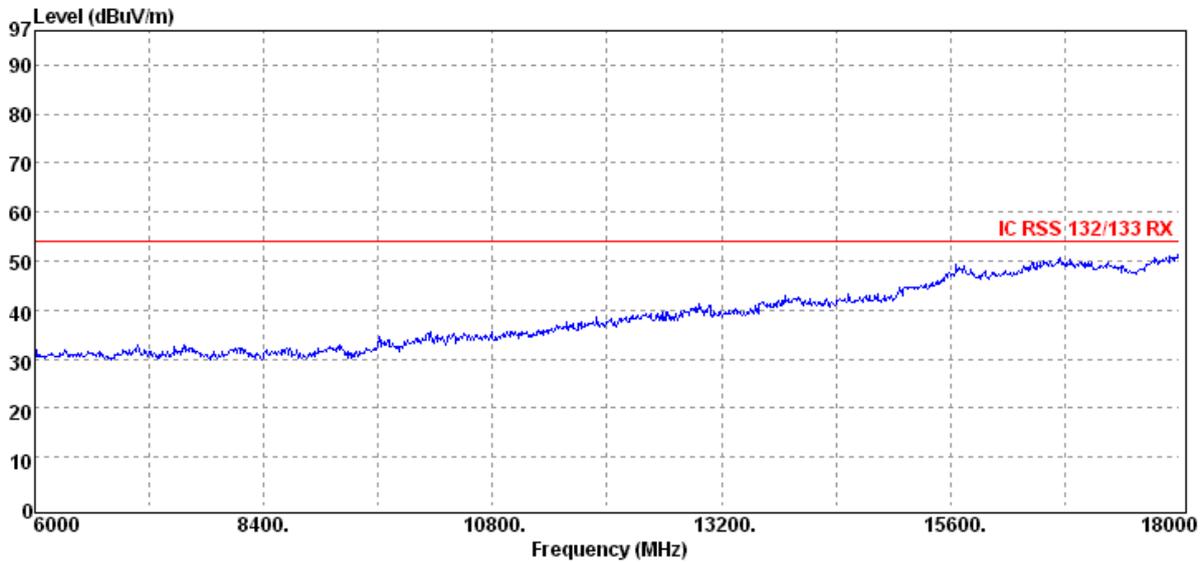
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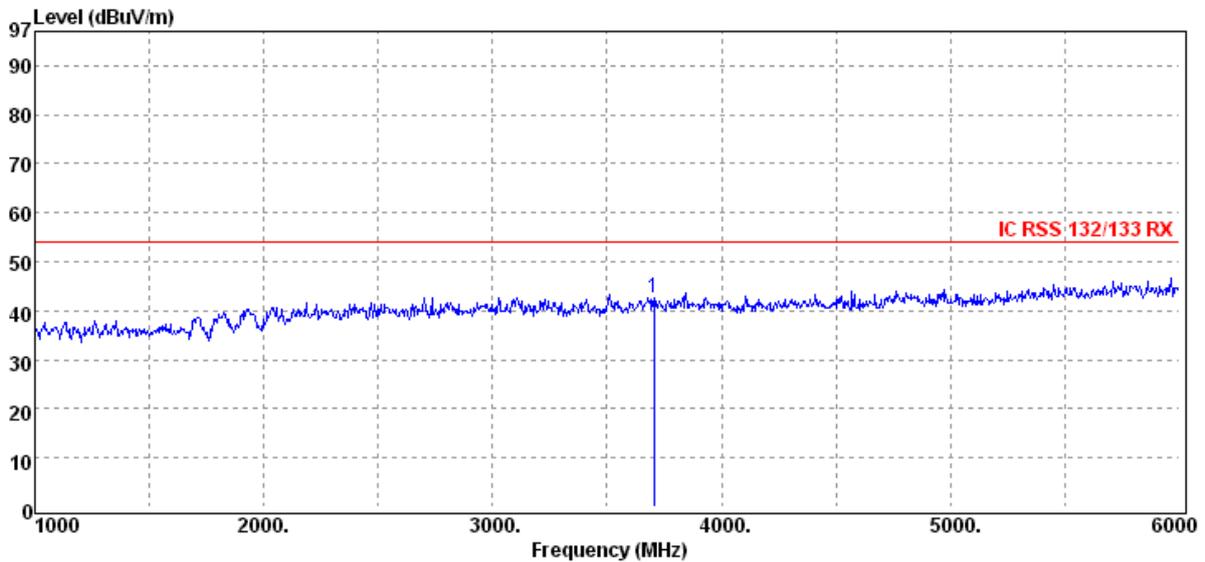
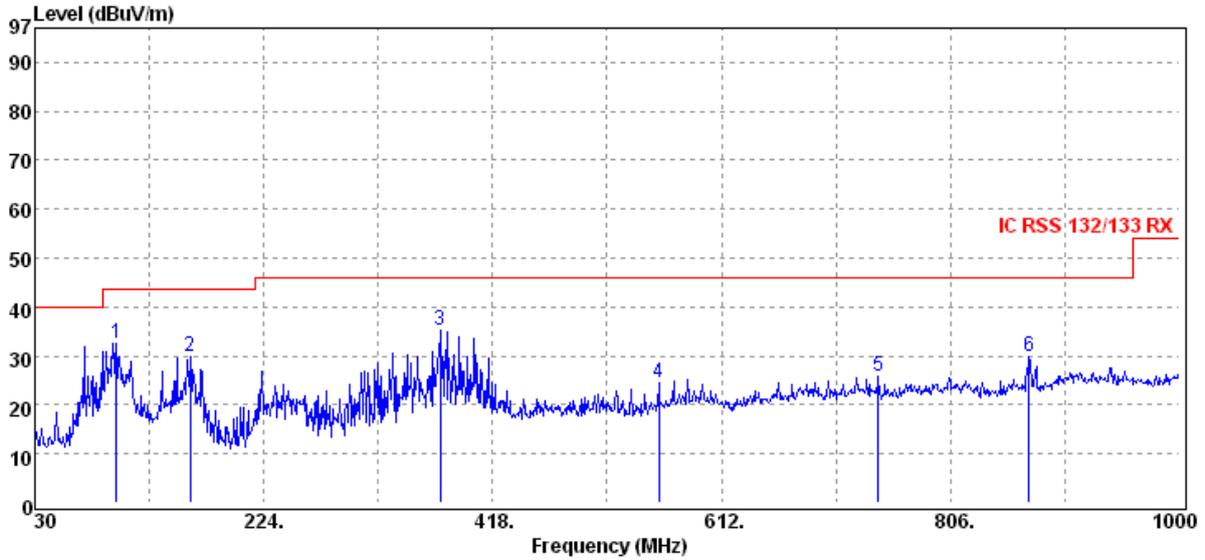
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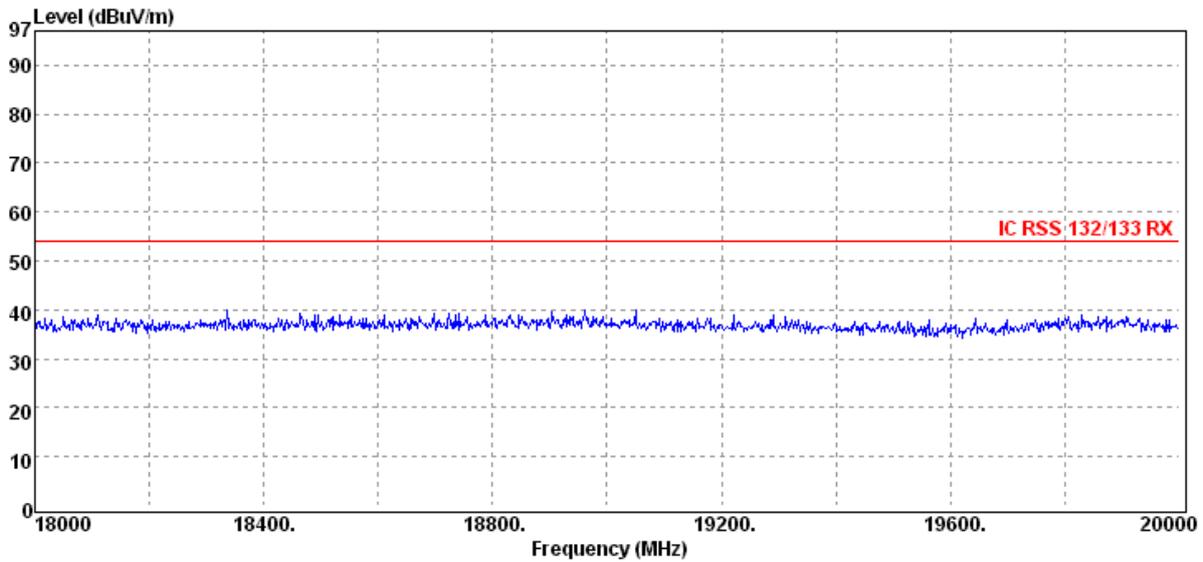
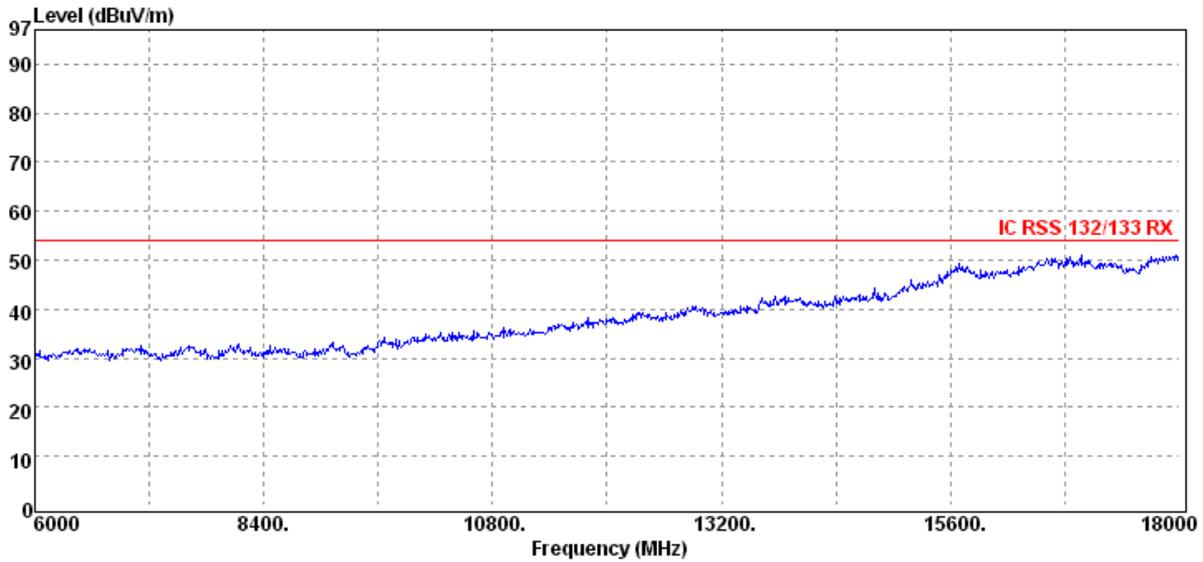
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1852.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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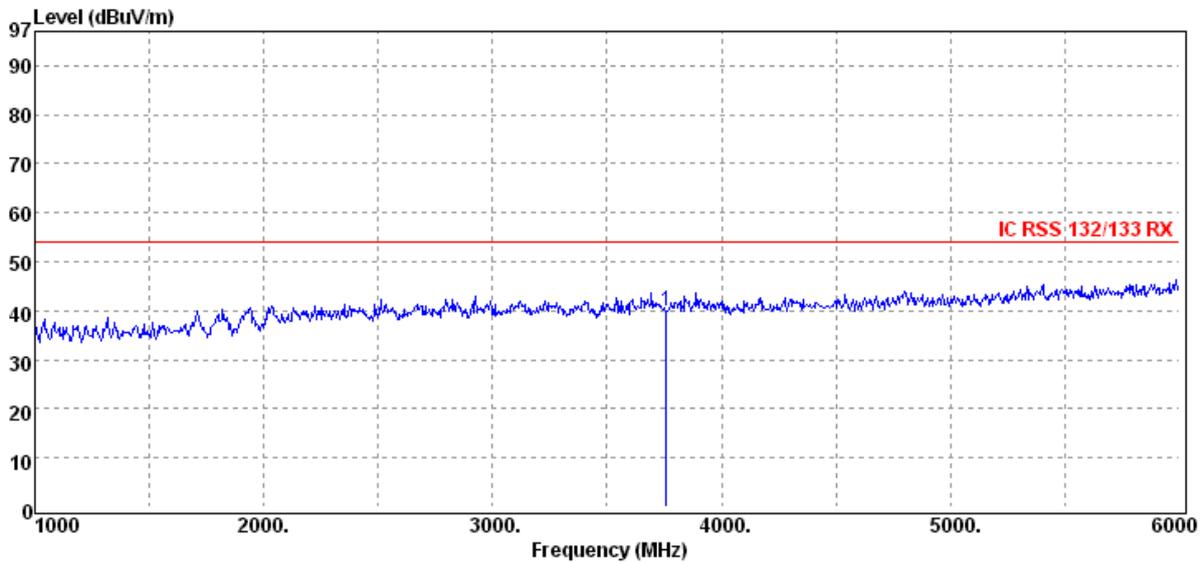
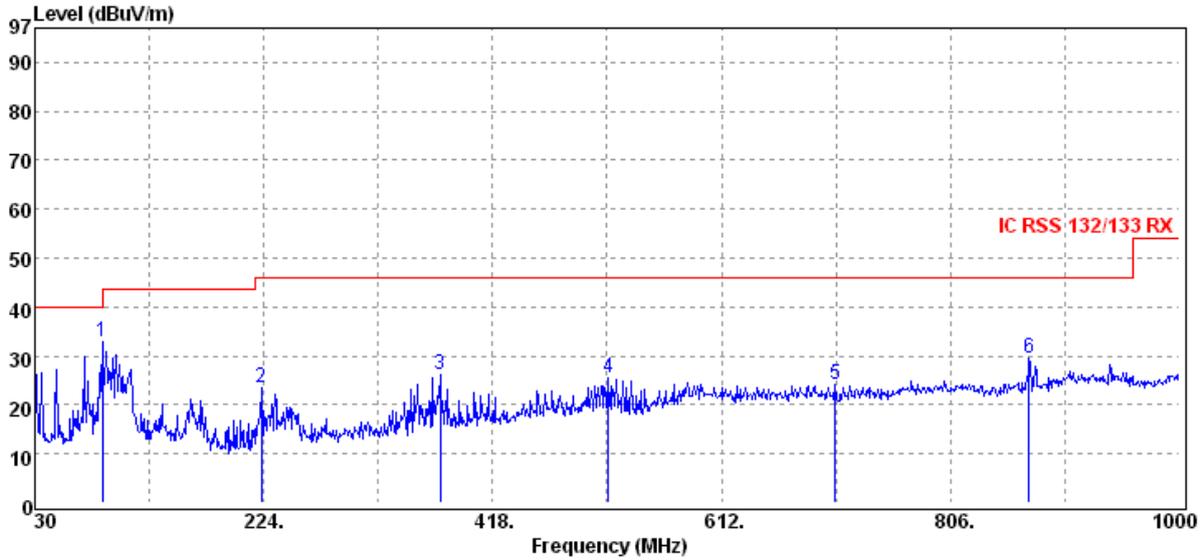
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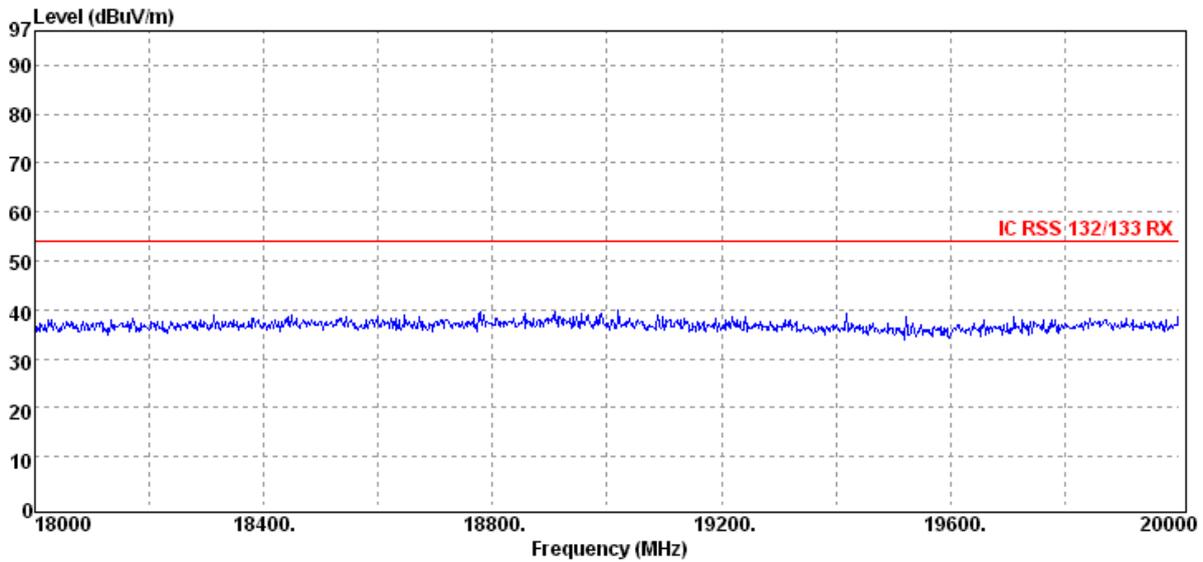
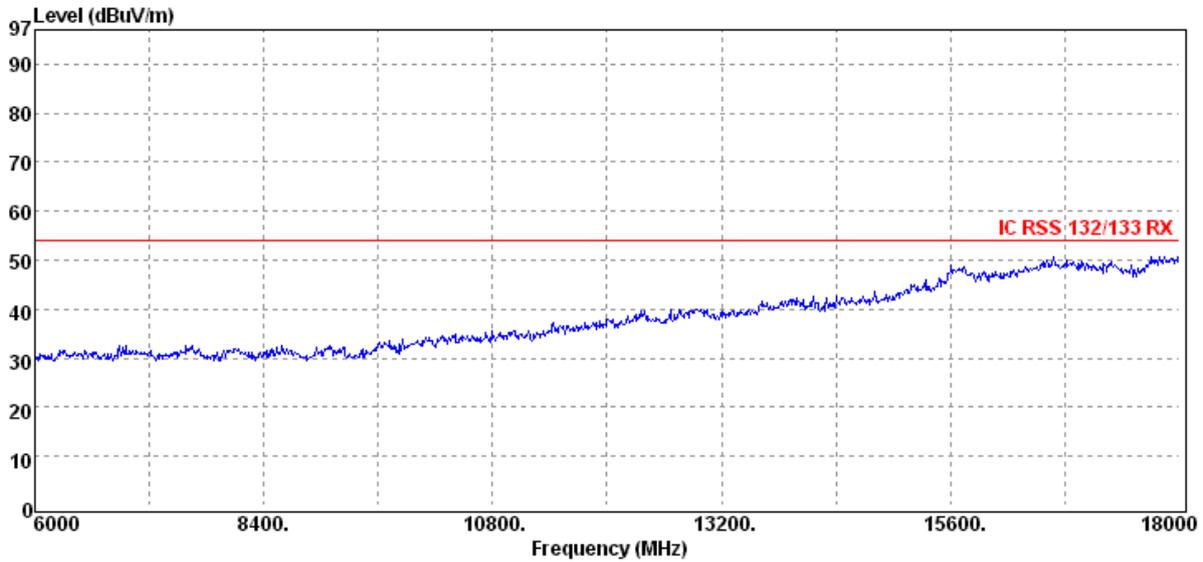
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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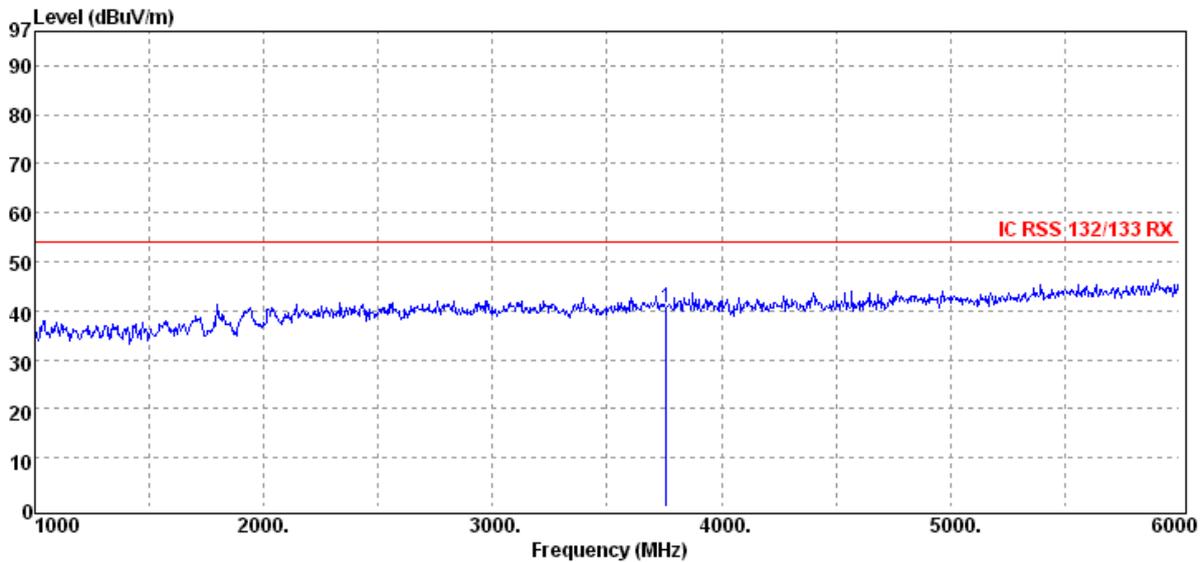
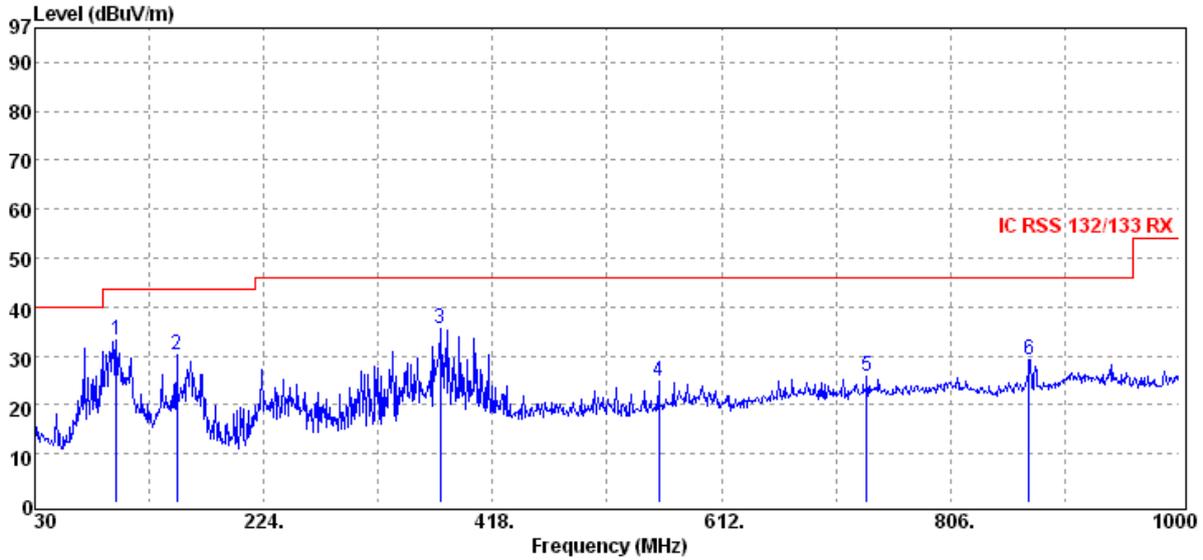
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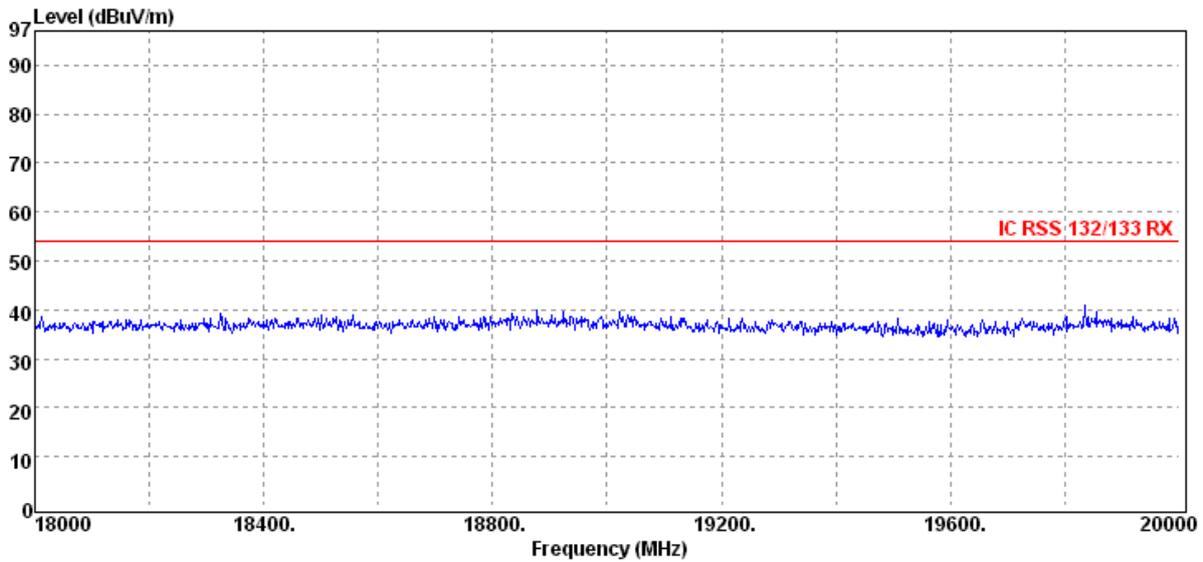
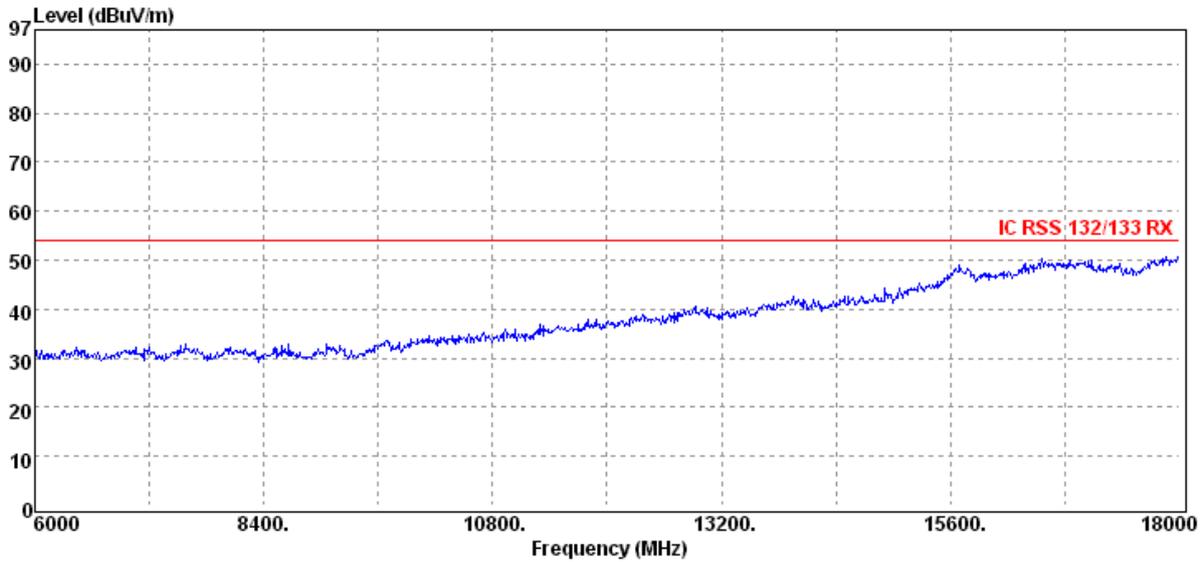
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1880 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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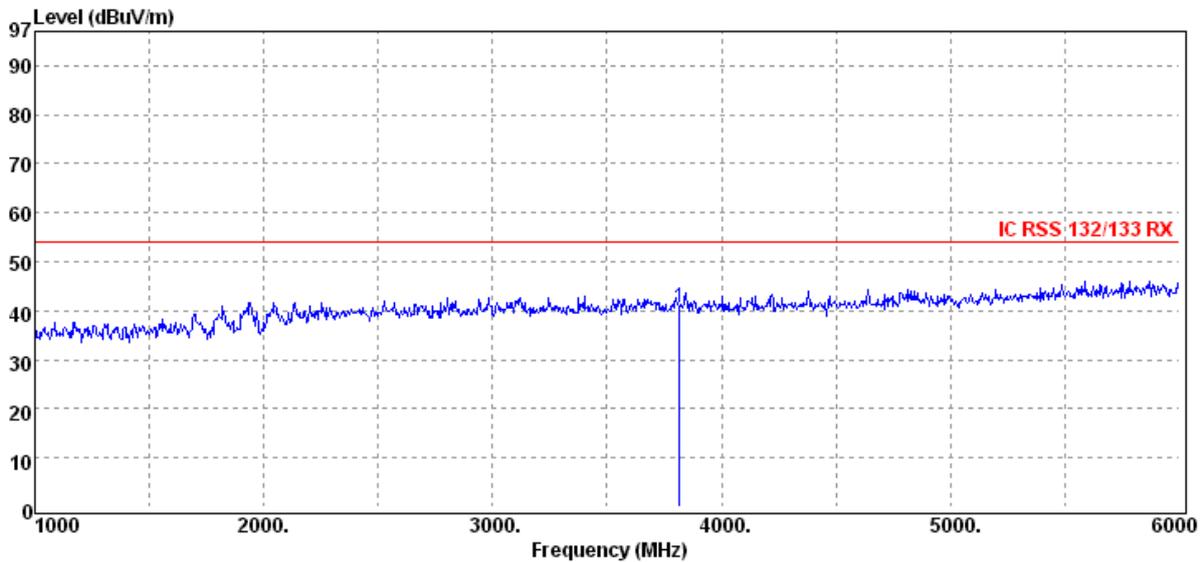
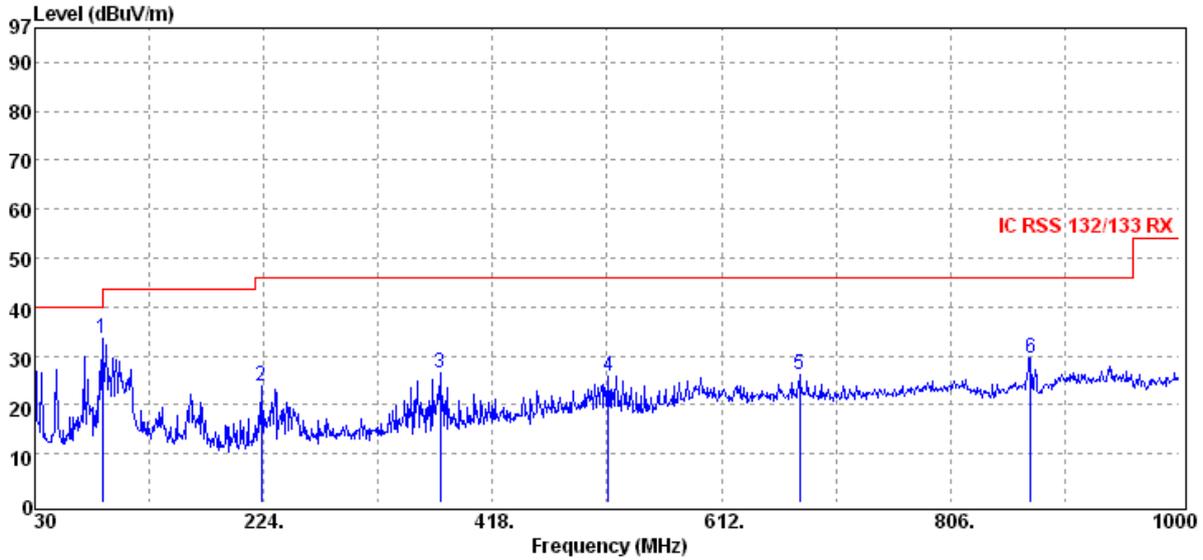
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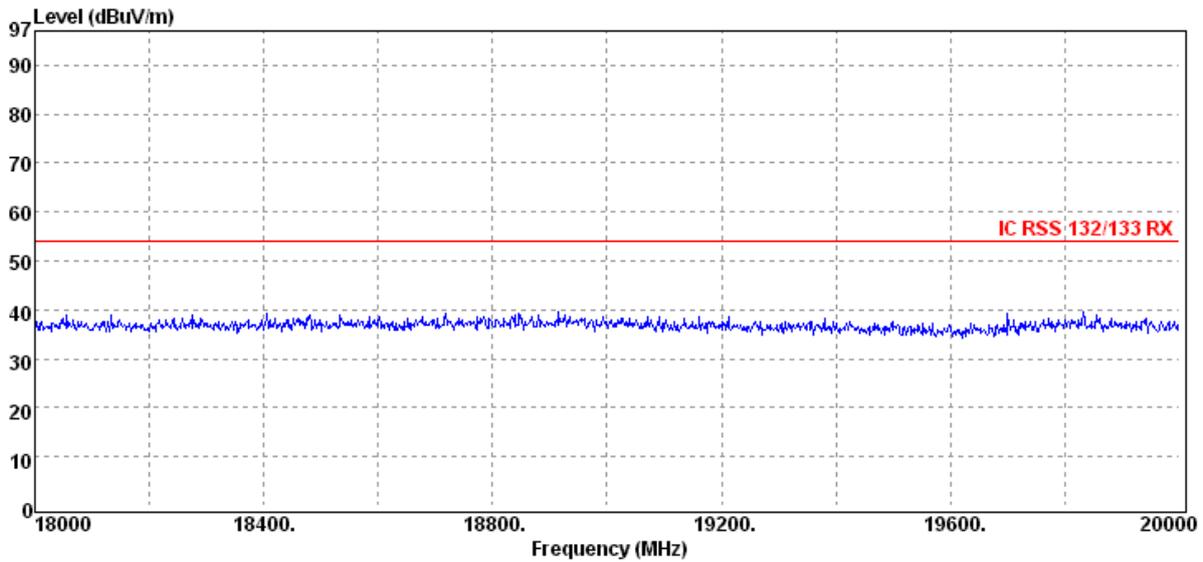
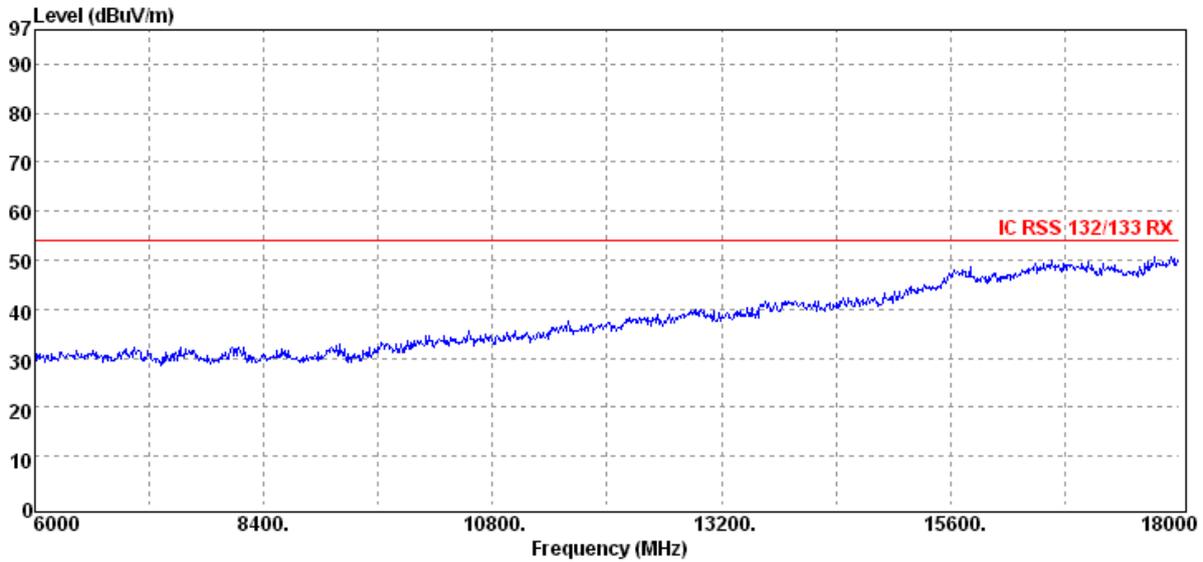
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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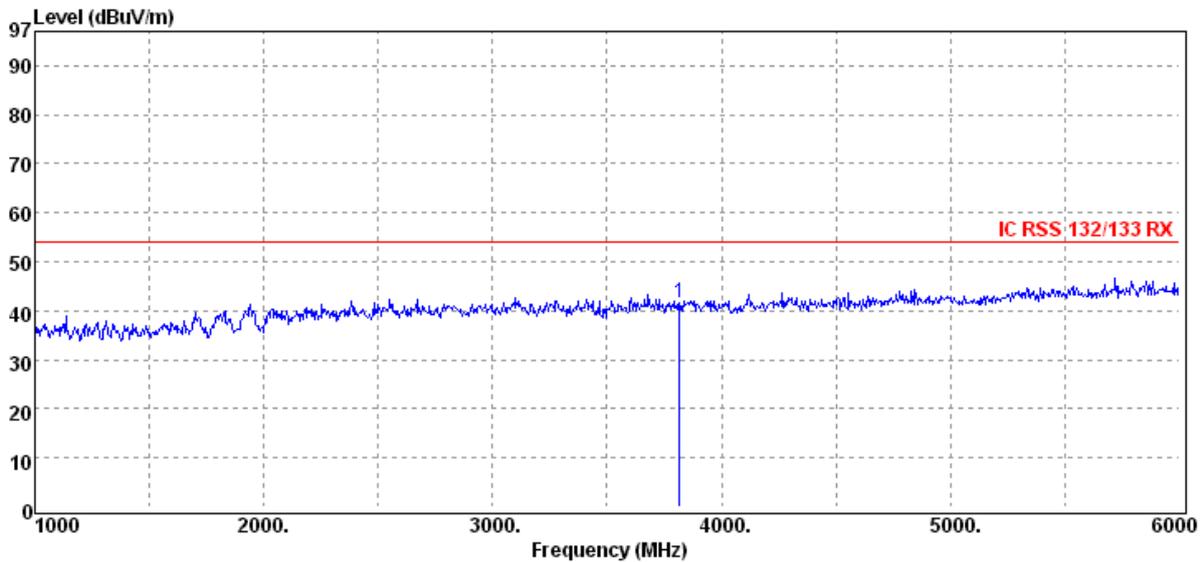
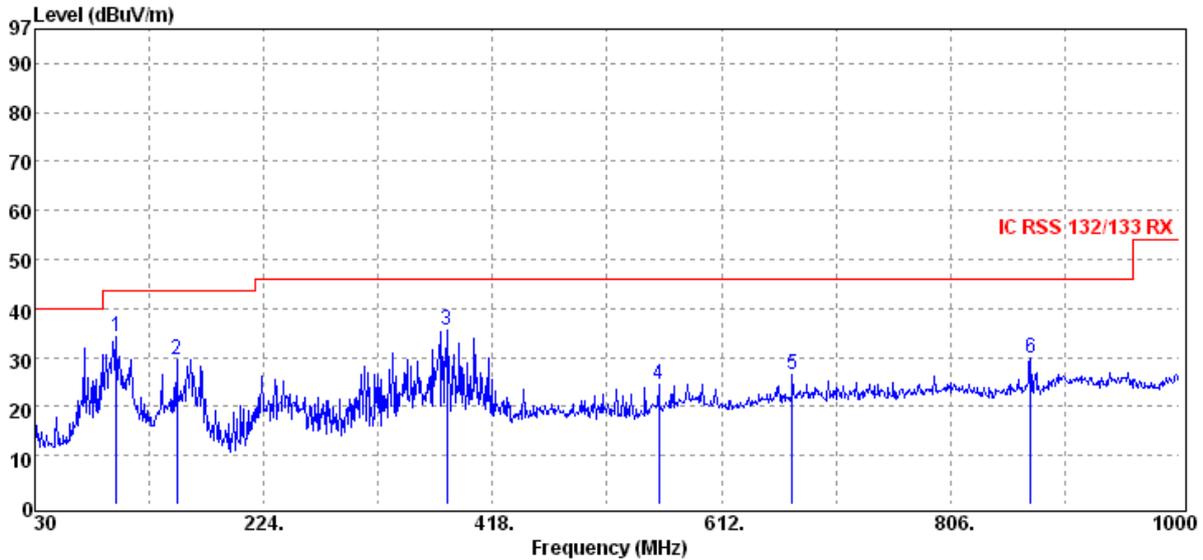
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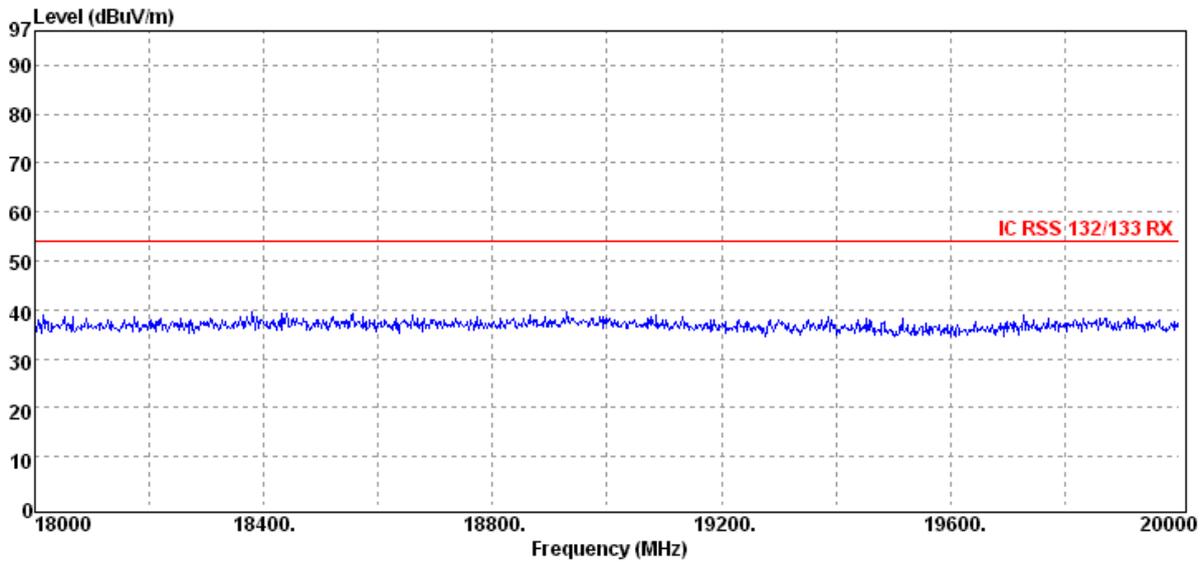
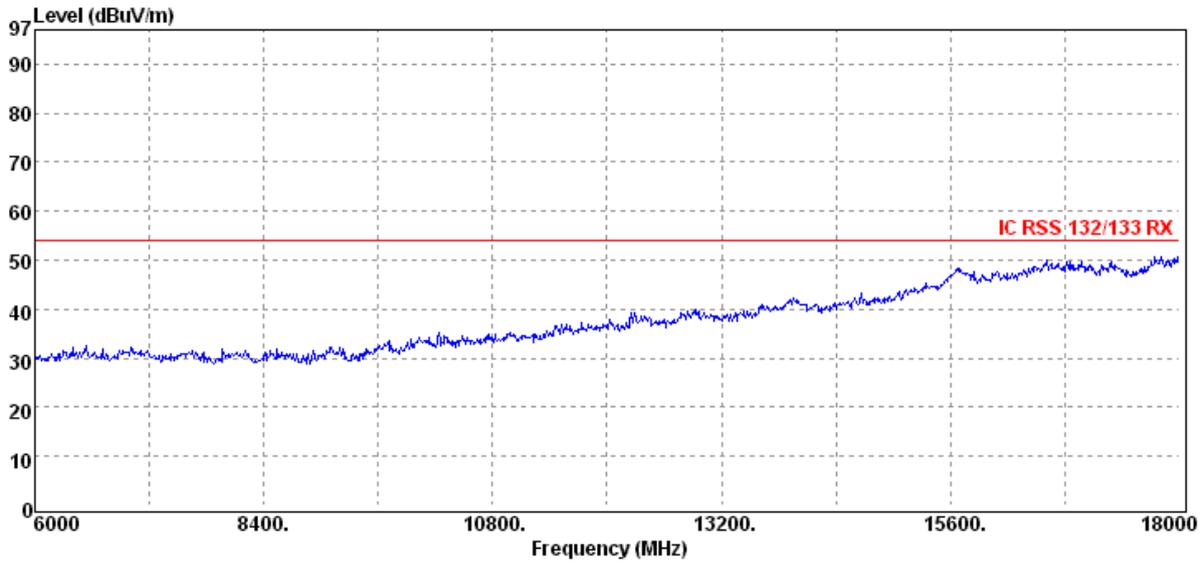
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Operation Band	:HSDPA B2	Test Date	:2014-03-01
Fundamental Frequency	:1907.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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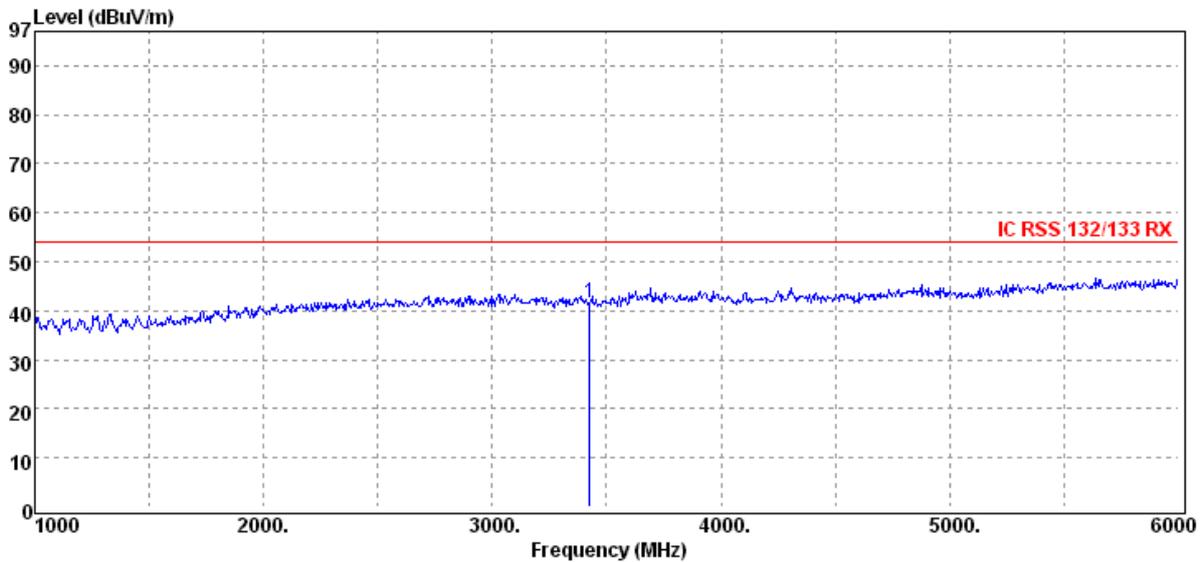
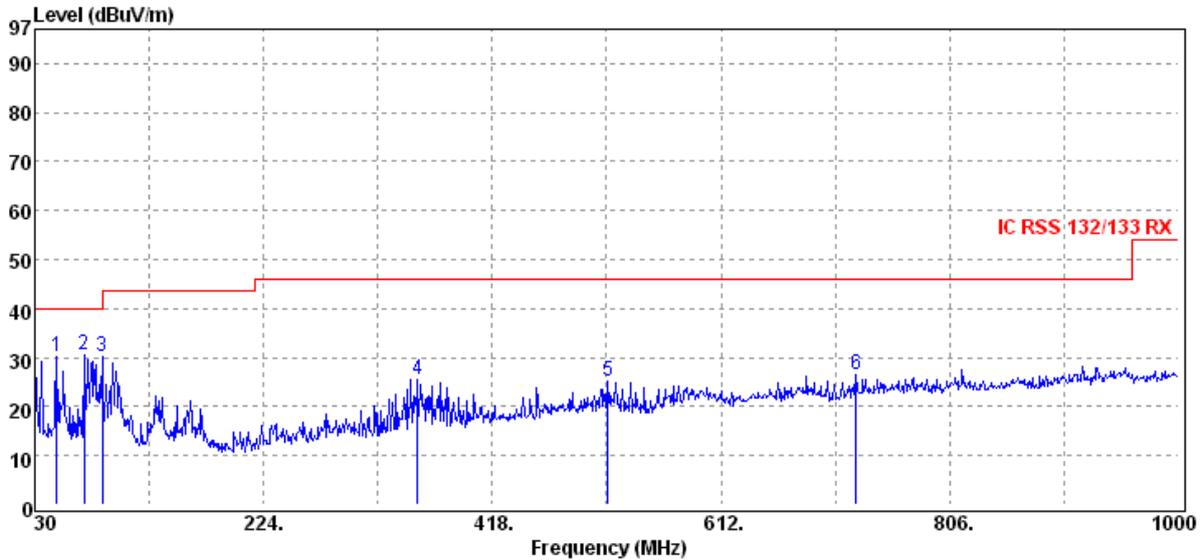
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**Radiated Spurious Emission Measurement Result: HSDPA IV Mode**

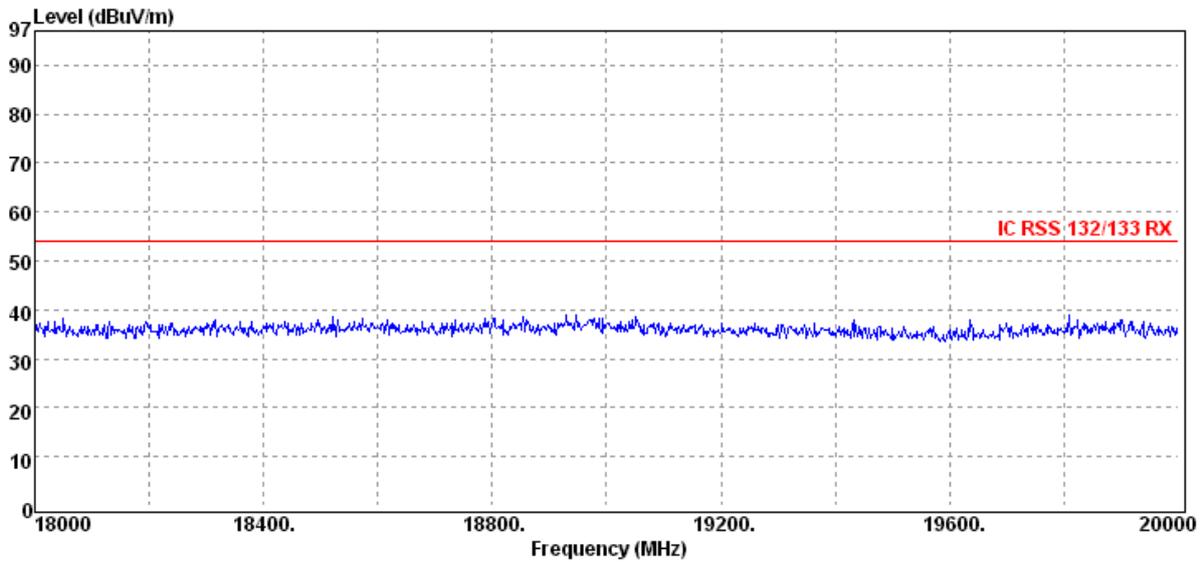
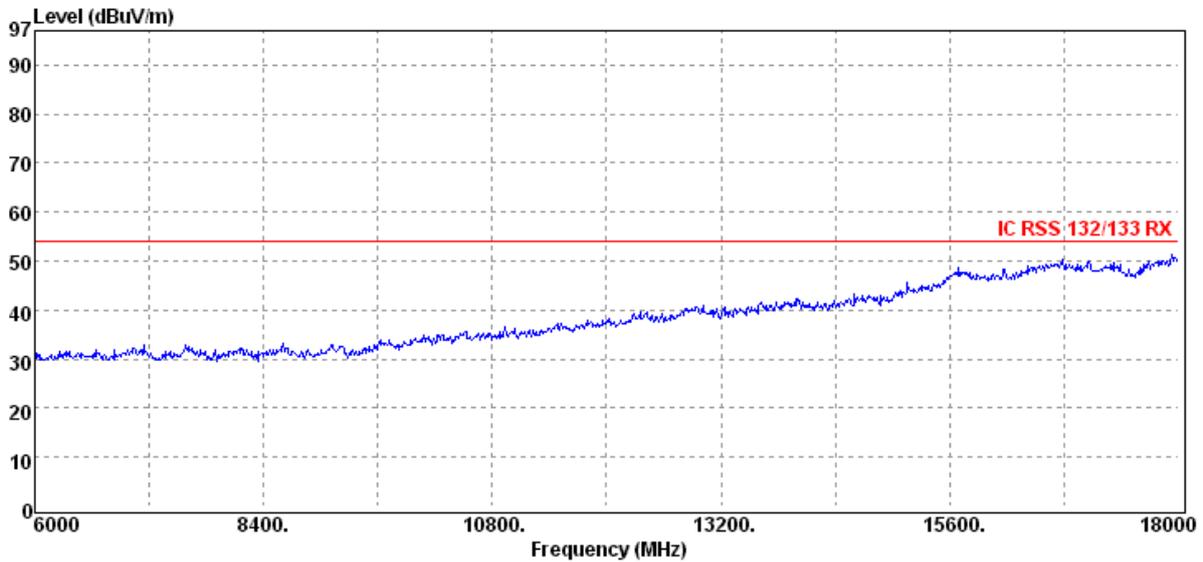
Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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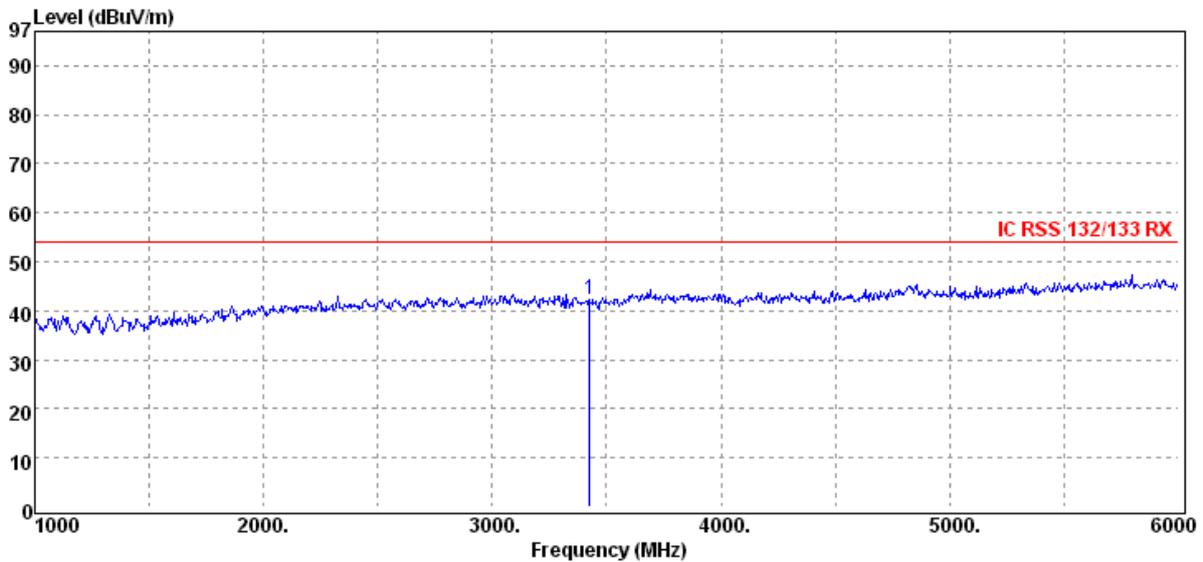
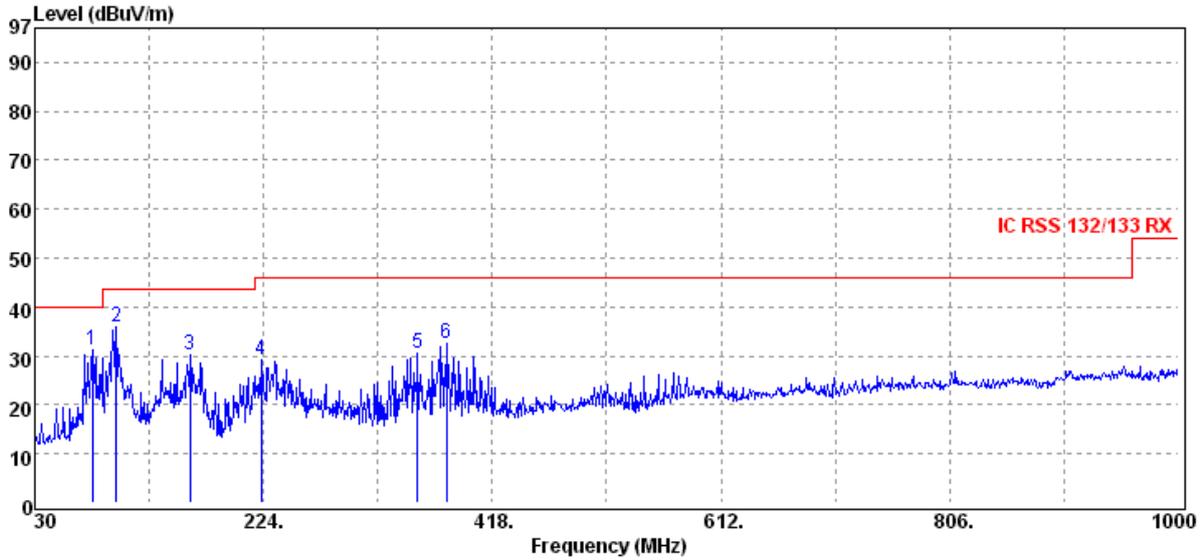
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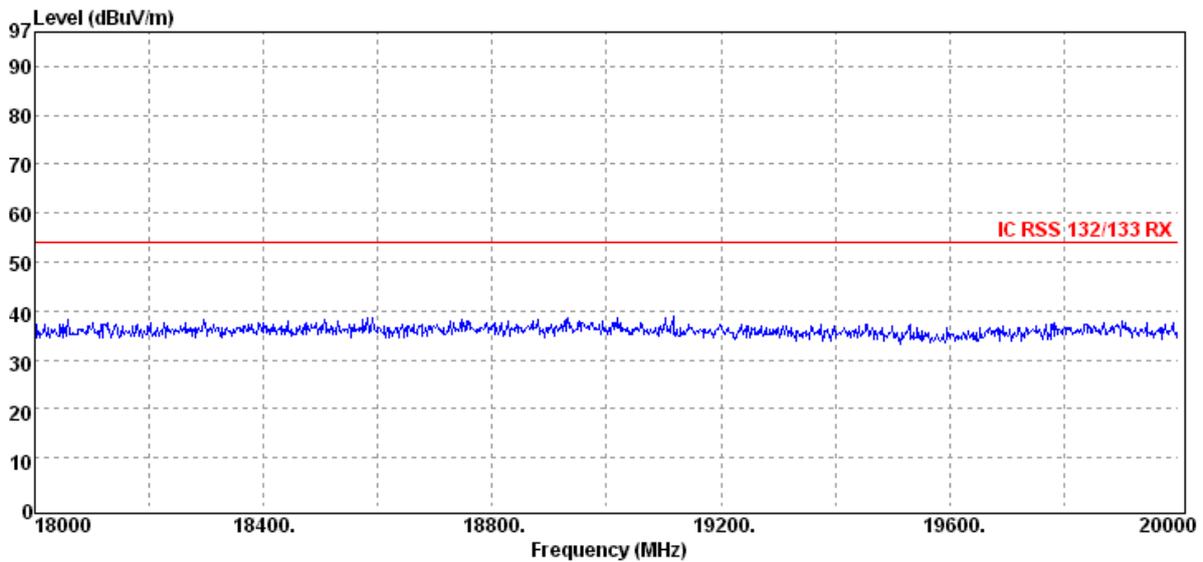
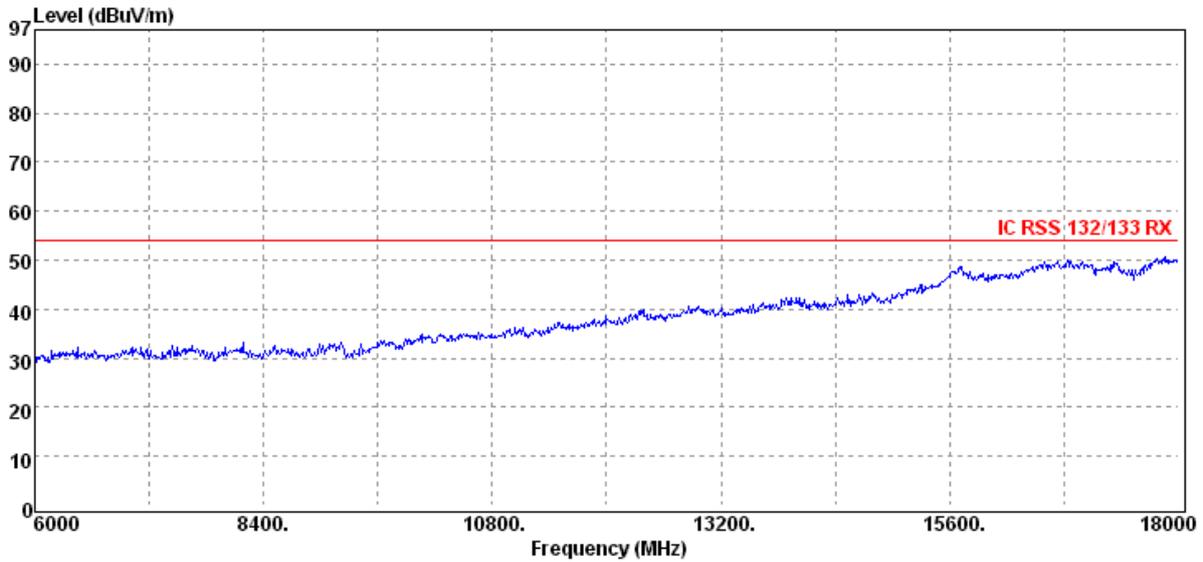
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1712.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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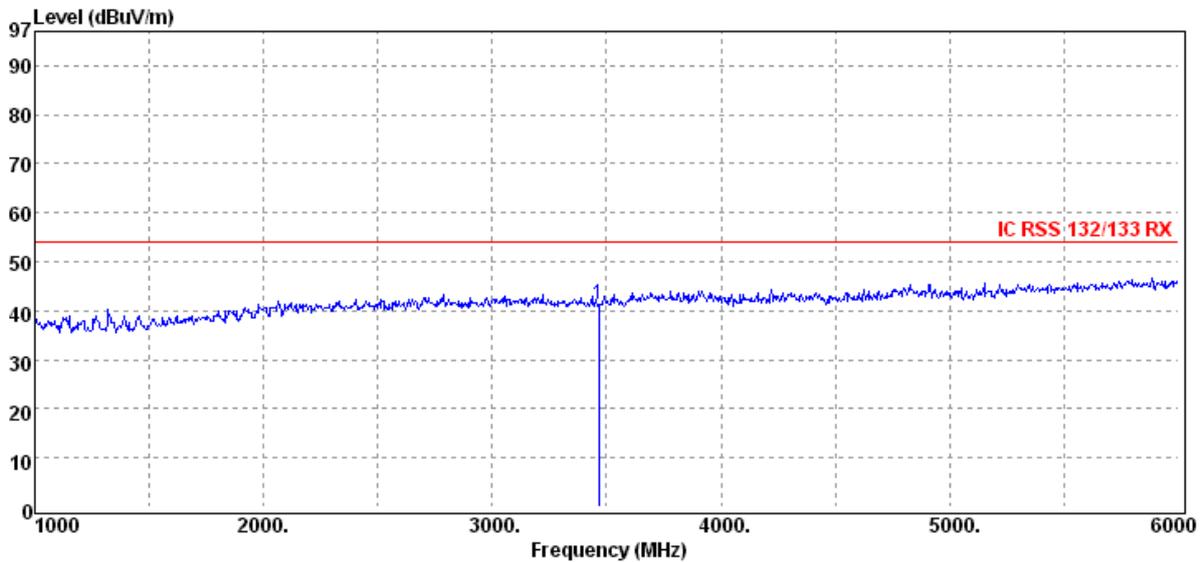
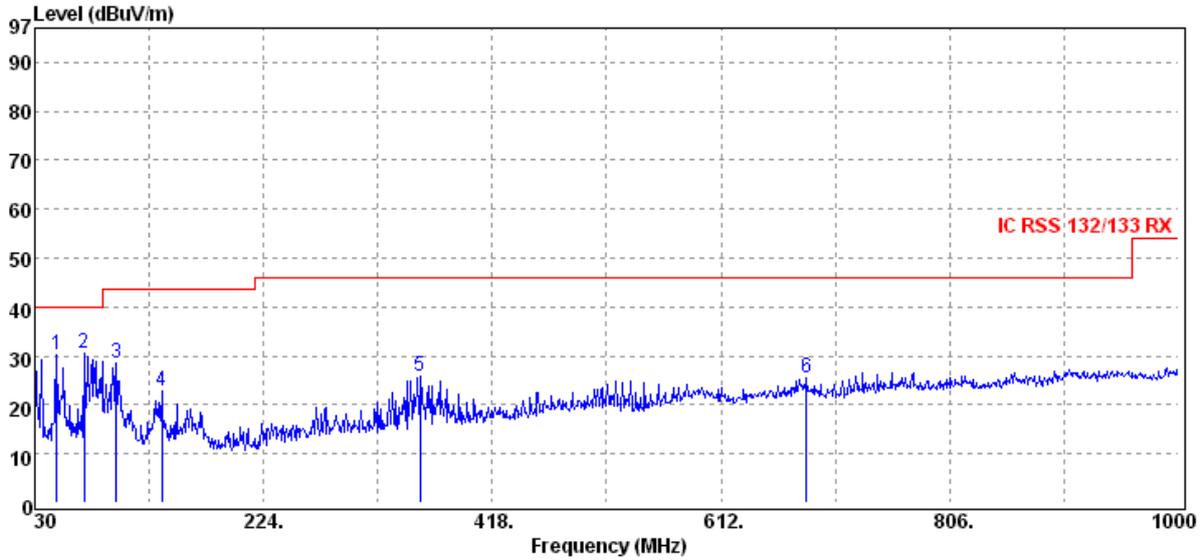
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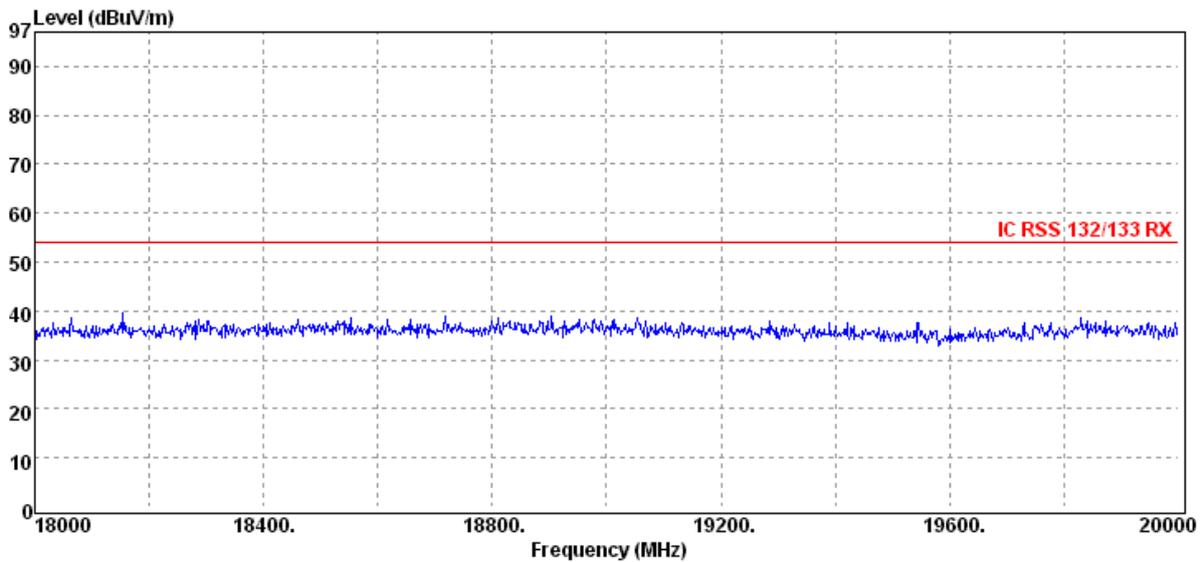
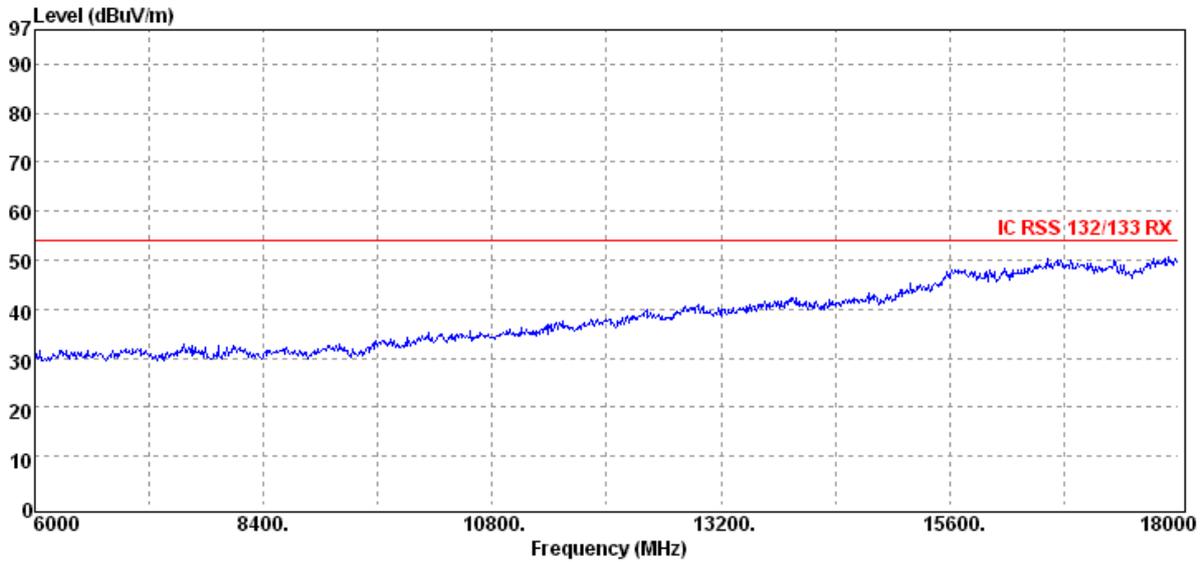
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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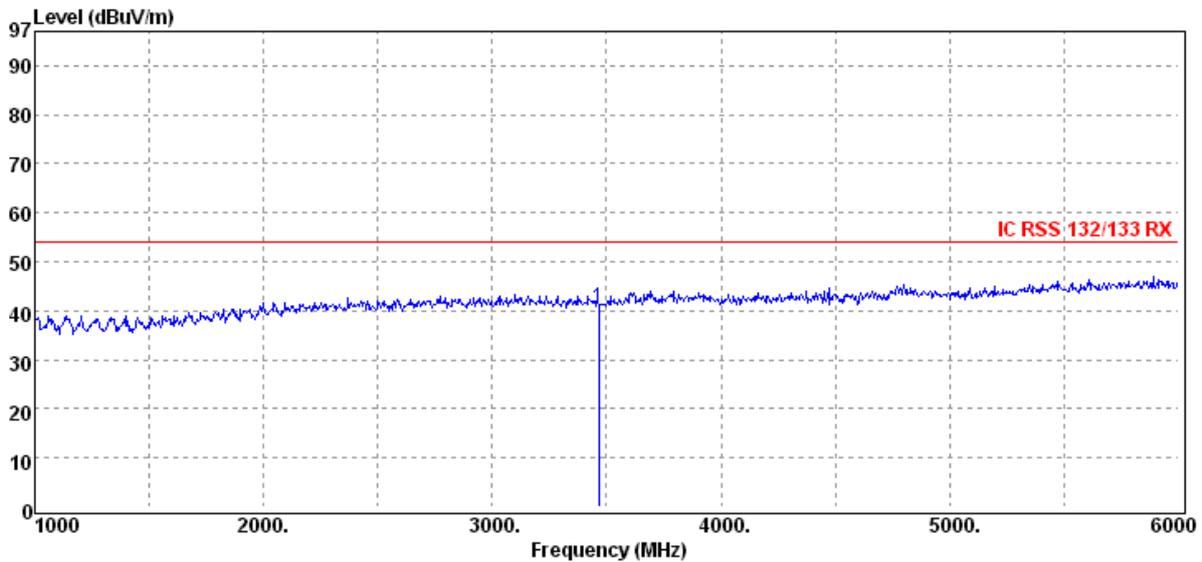
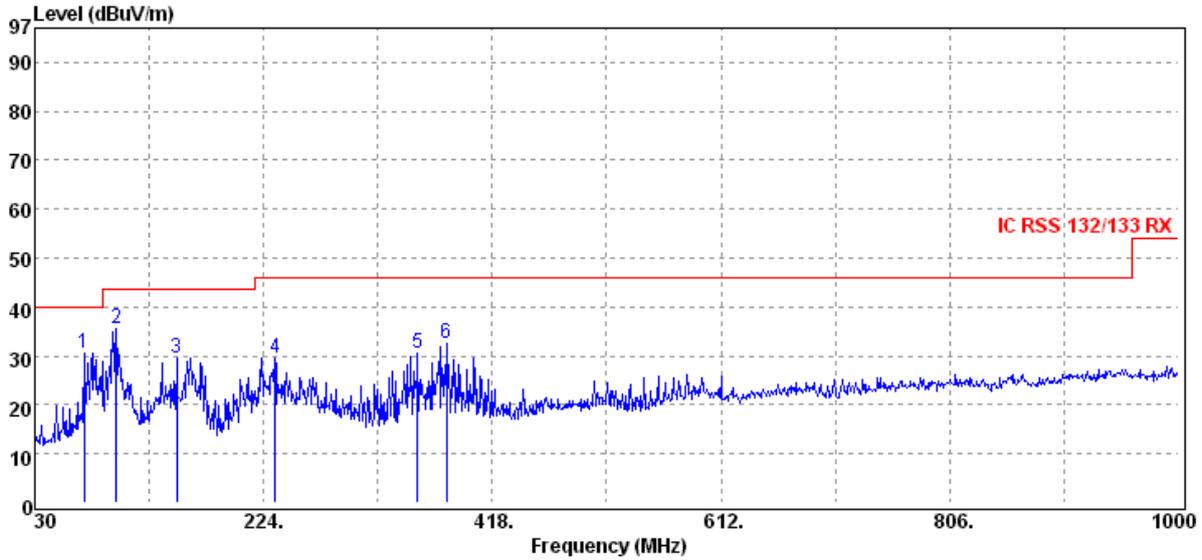
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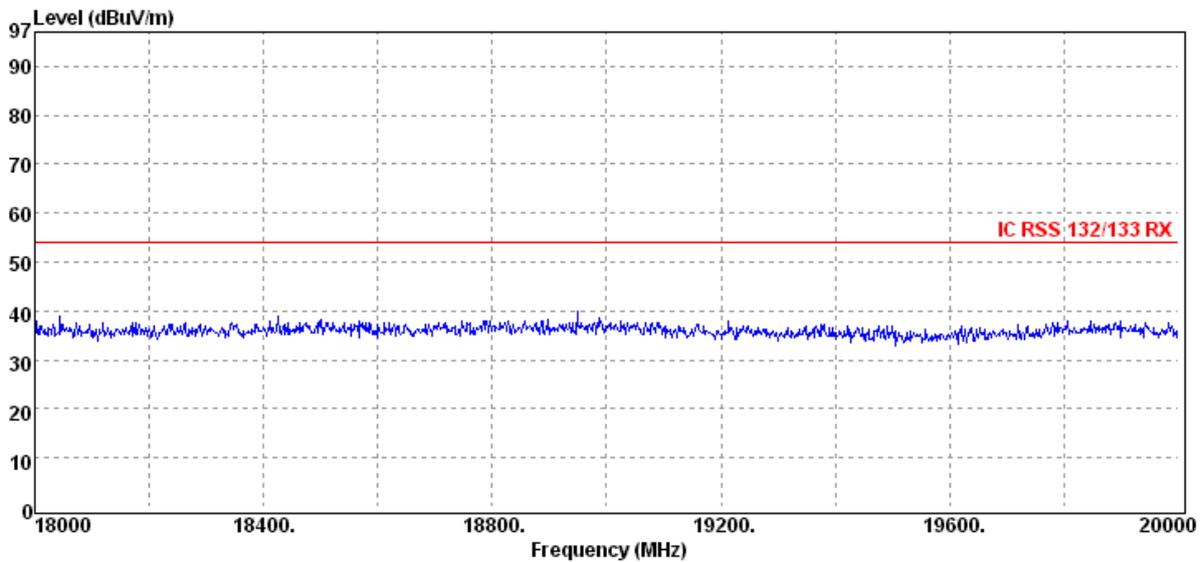
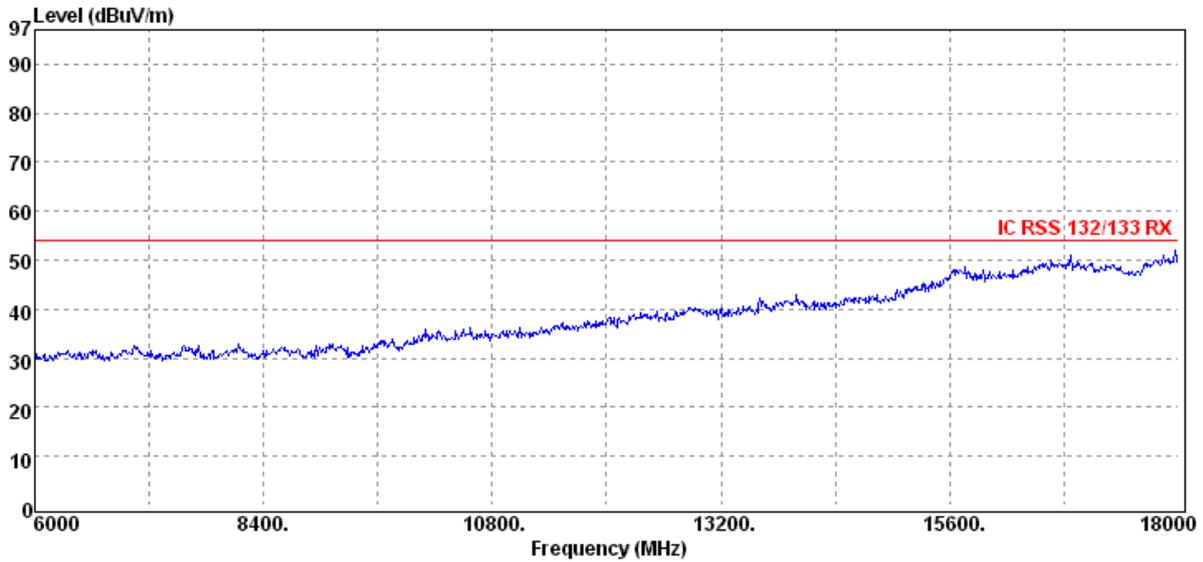
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1732.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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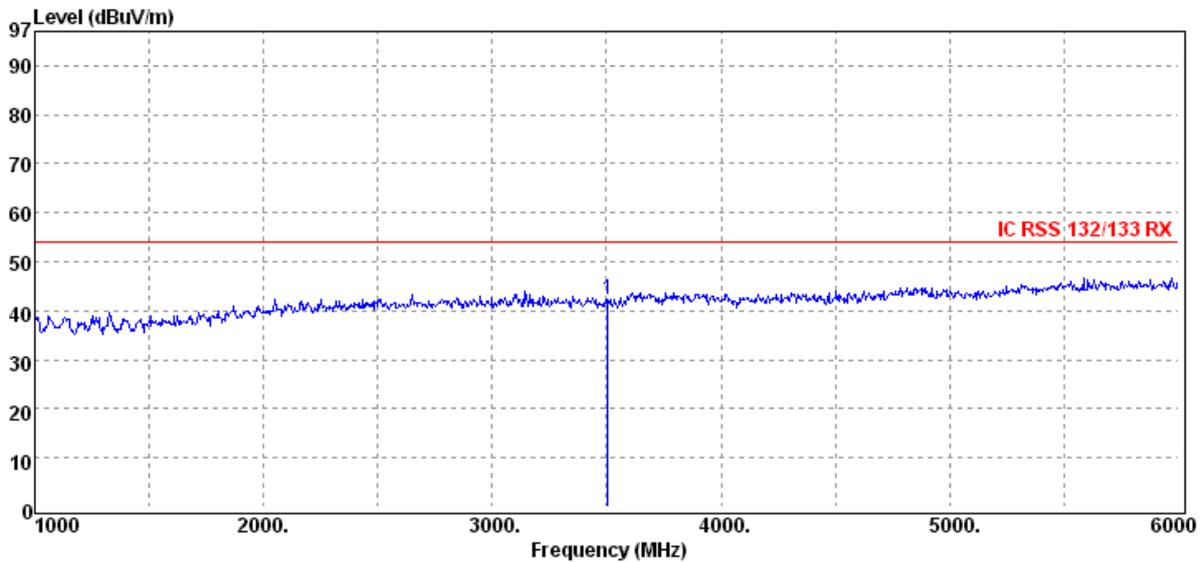
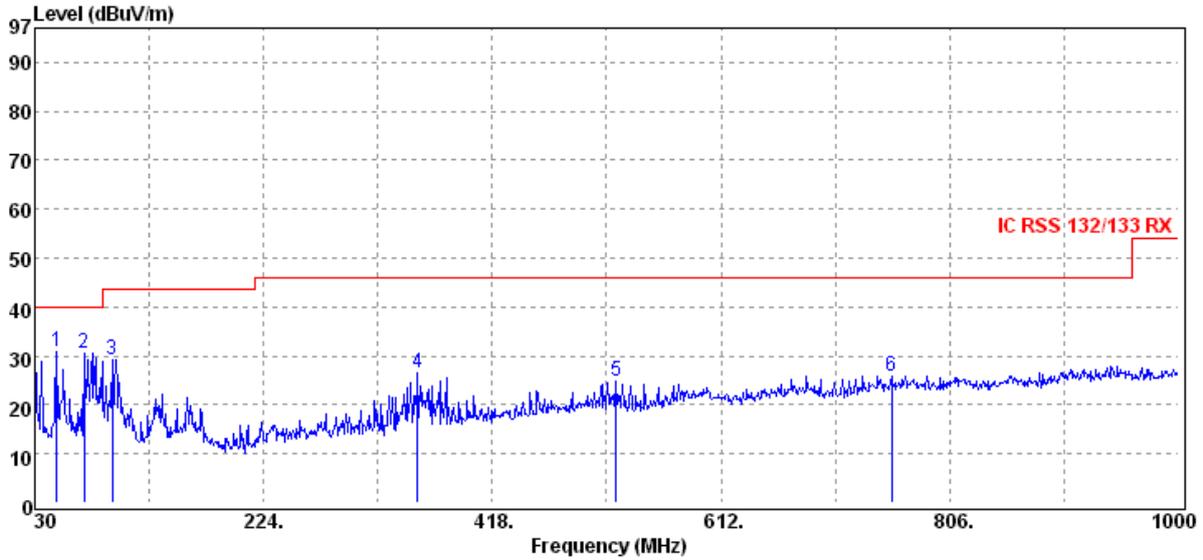
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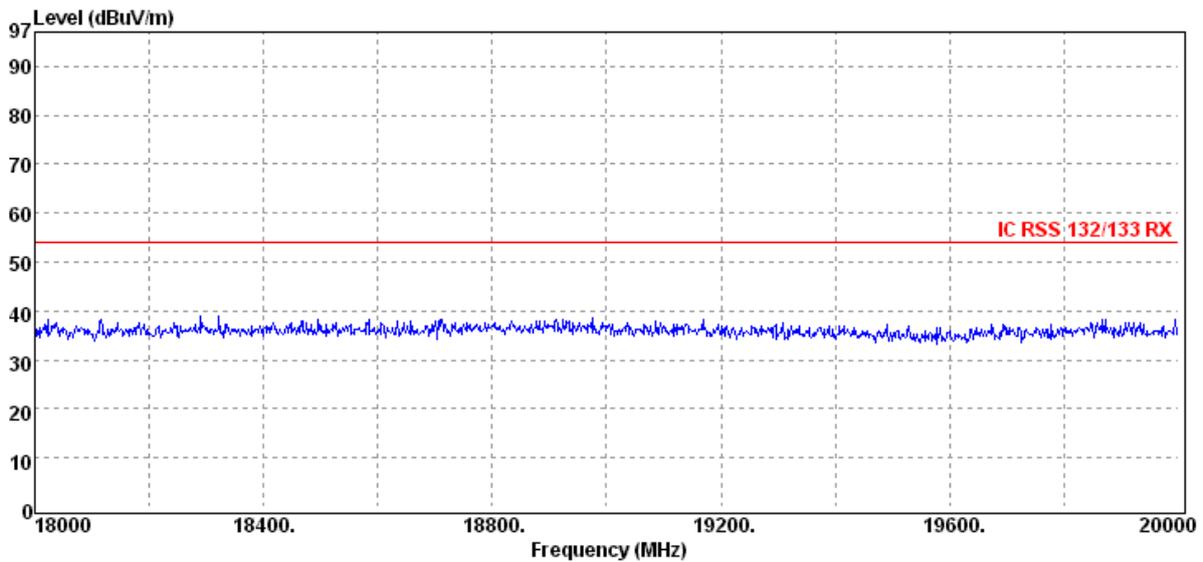
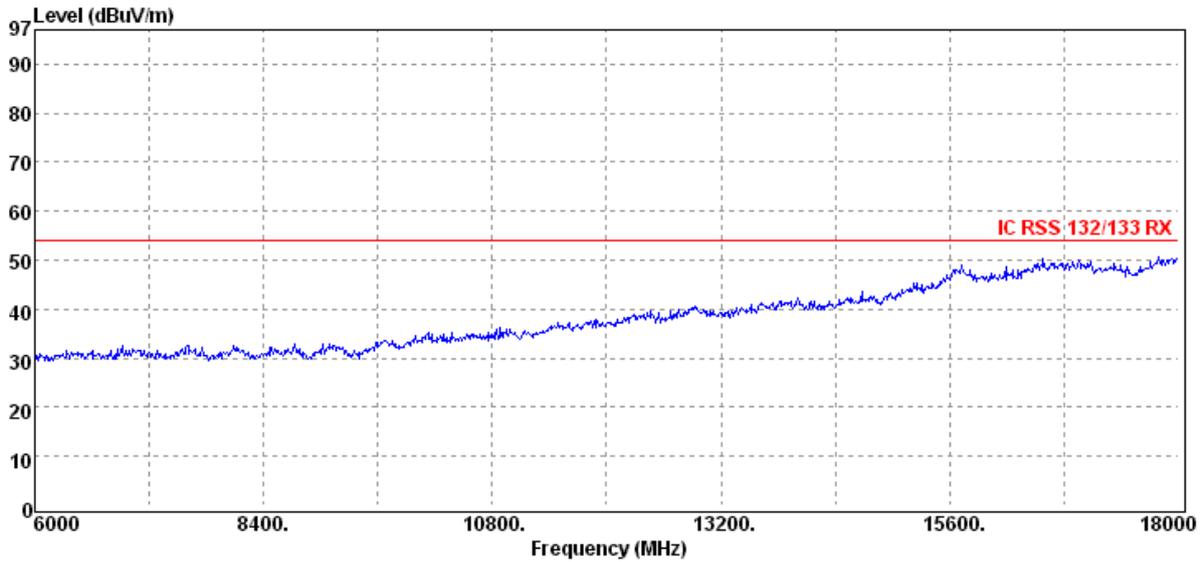
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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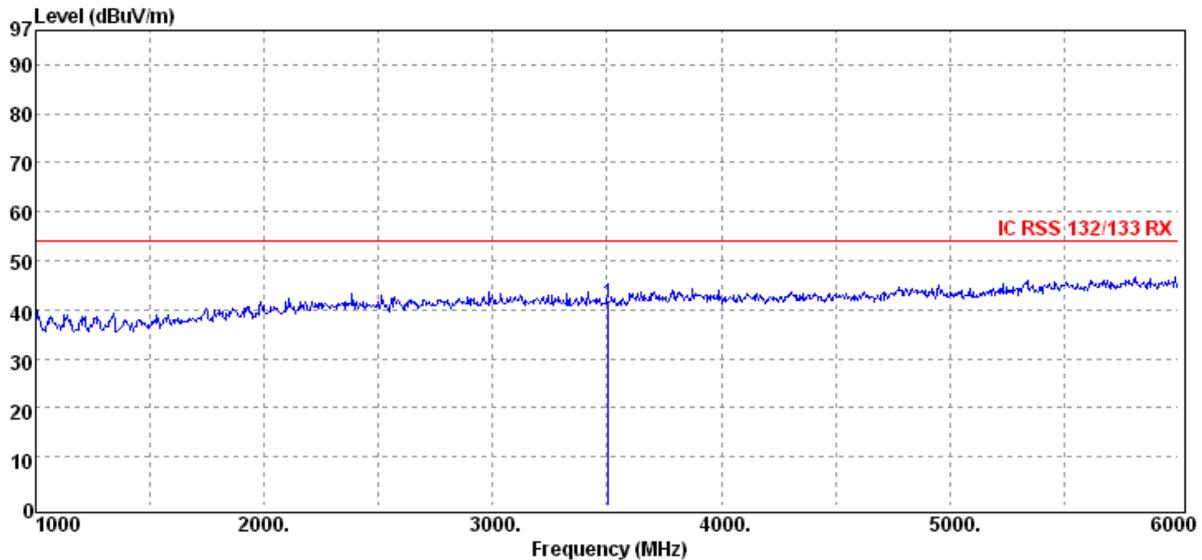
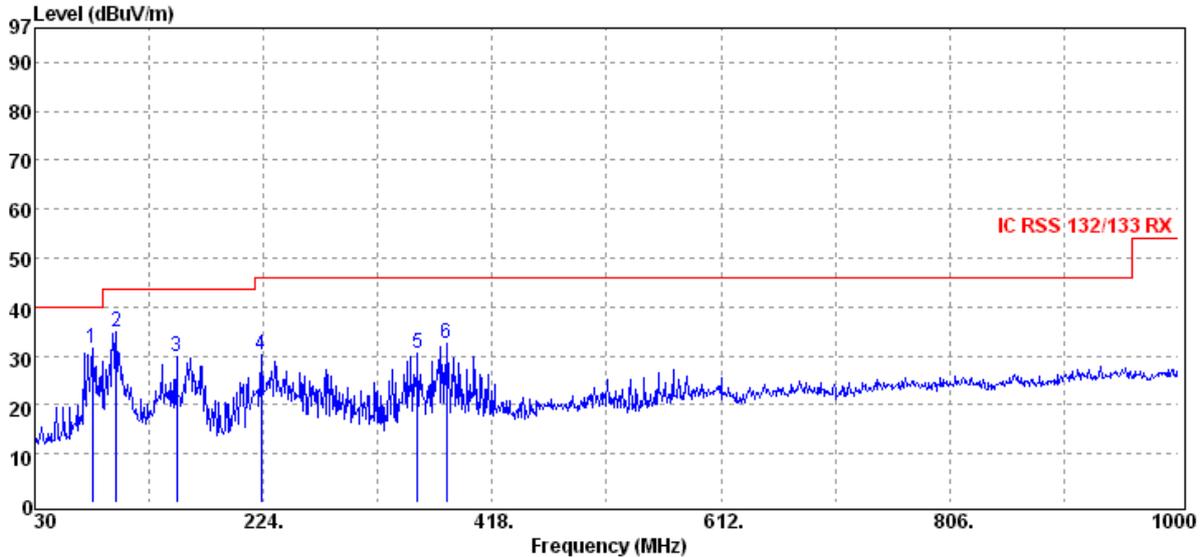
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Operation Band	:HSDPA B4	Test Date	:2014-03-01
Fundamental Frequency	:1752.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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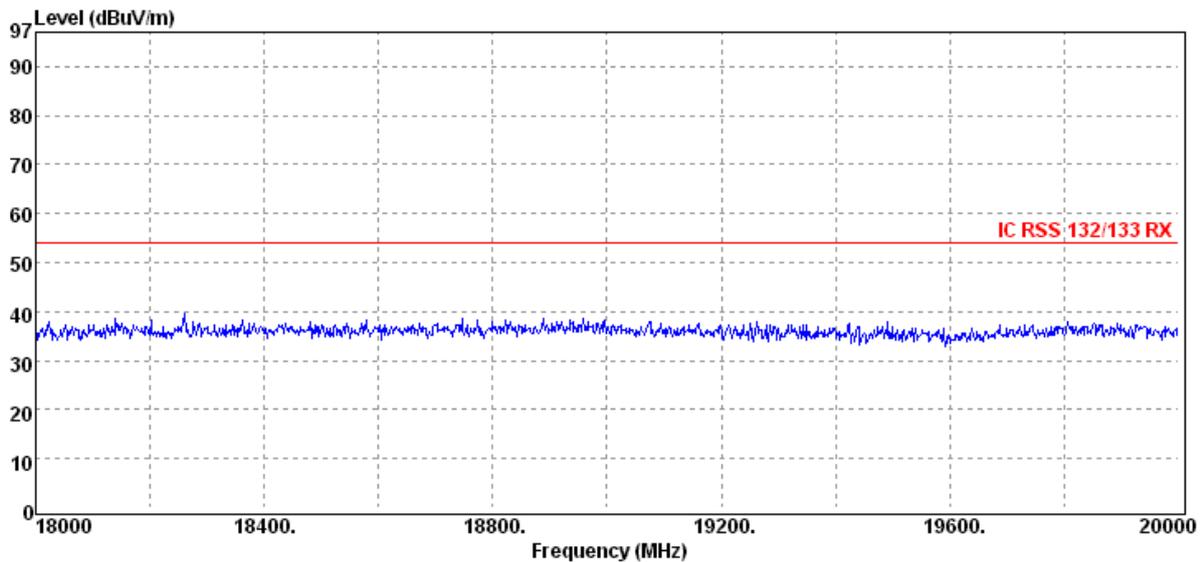
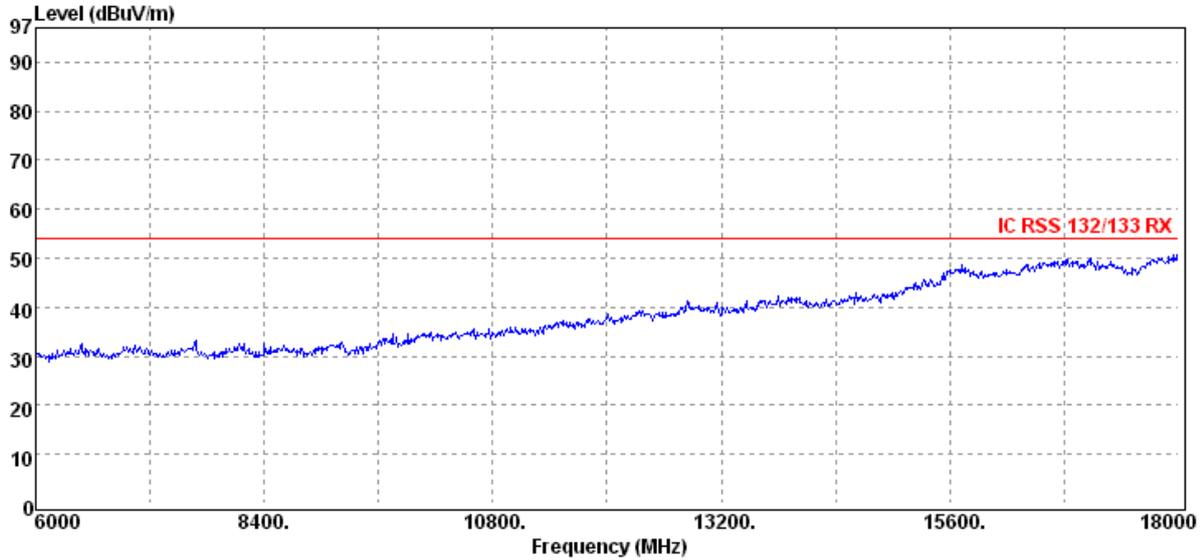
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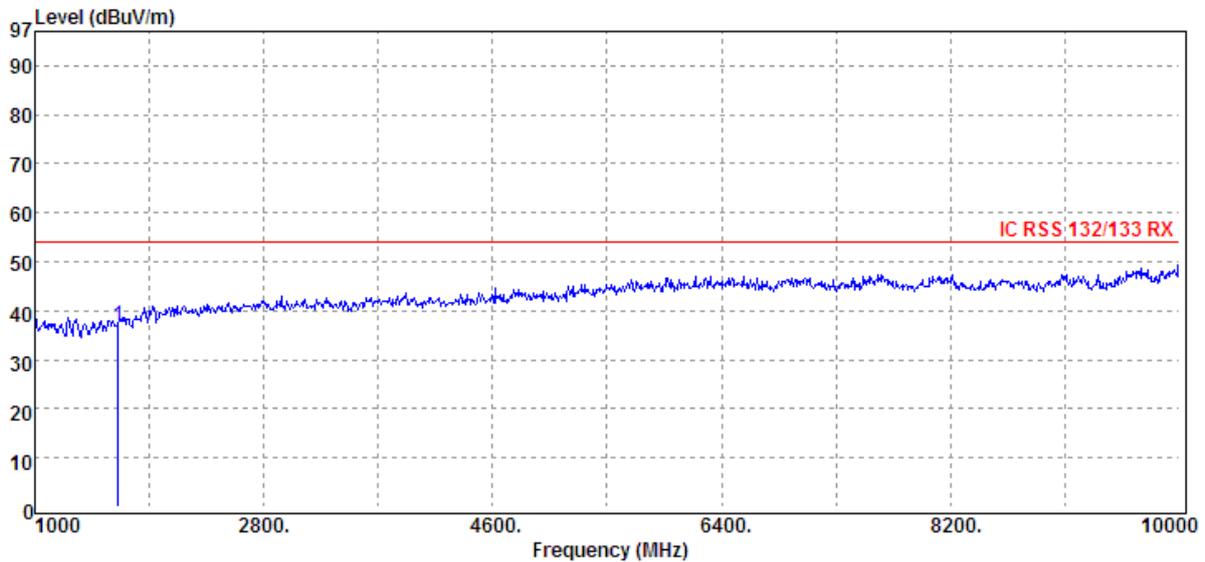
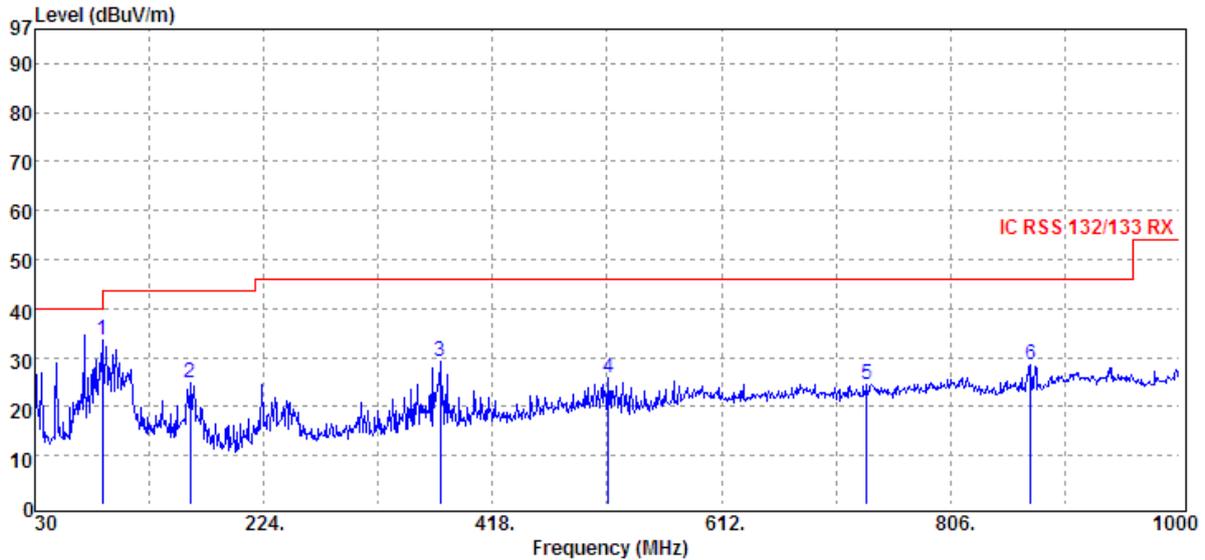
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**Radiated Spurious Emission Measurement Result: HSDPA V Mode**

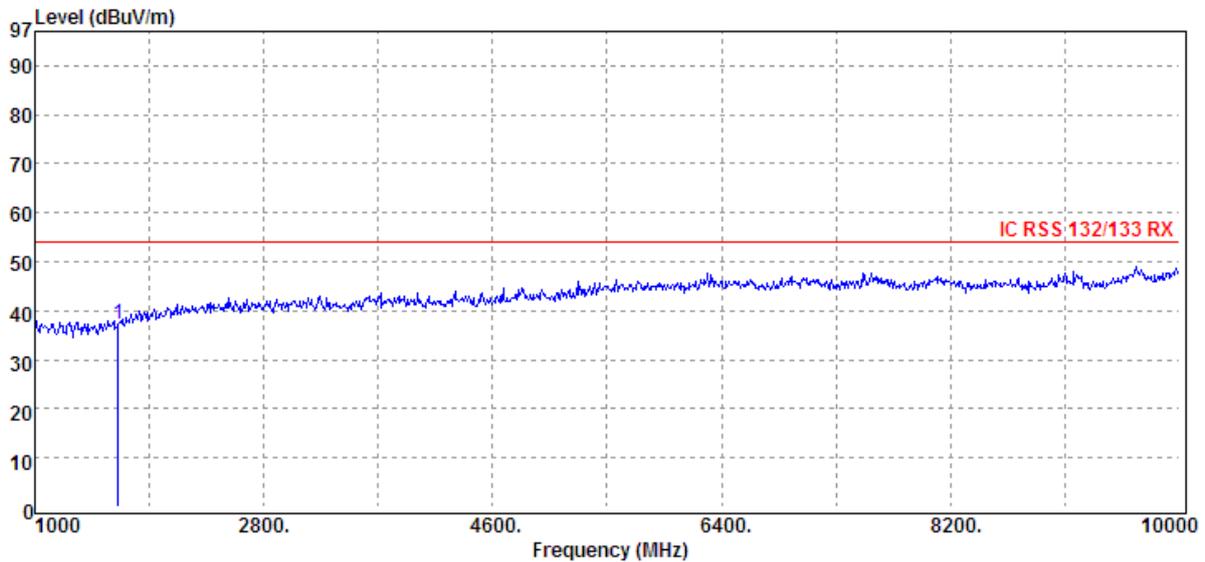
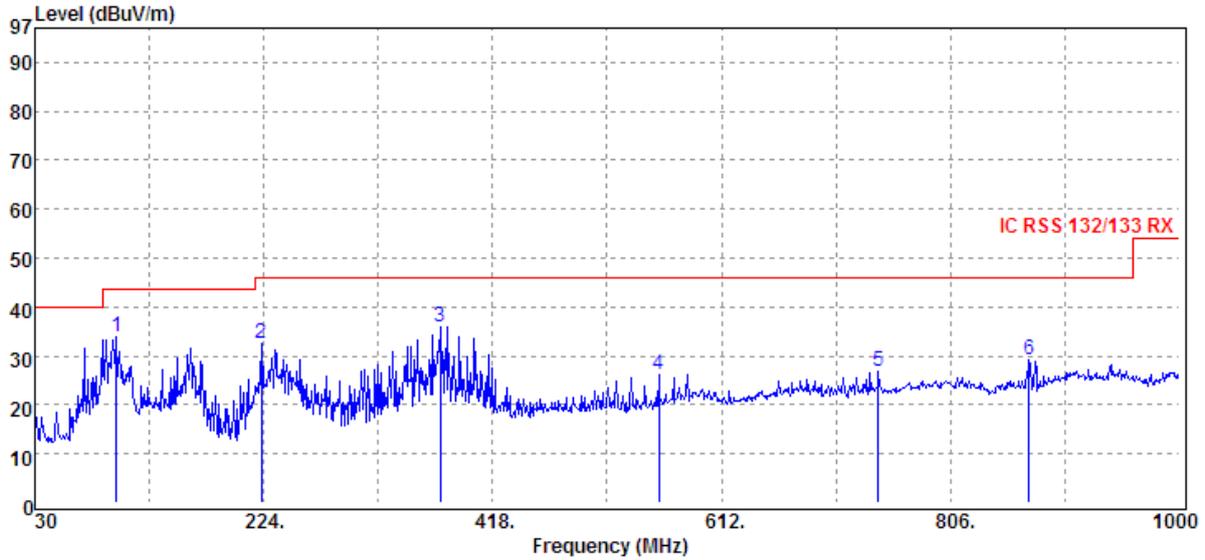
Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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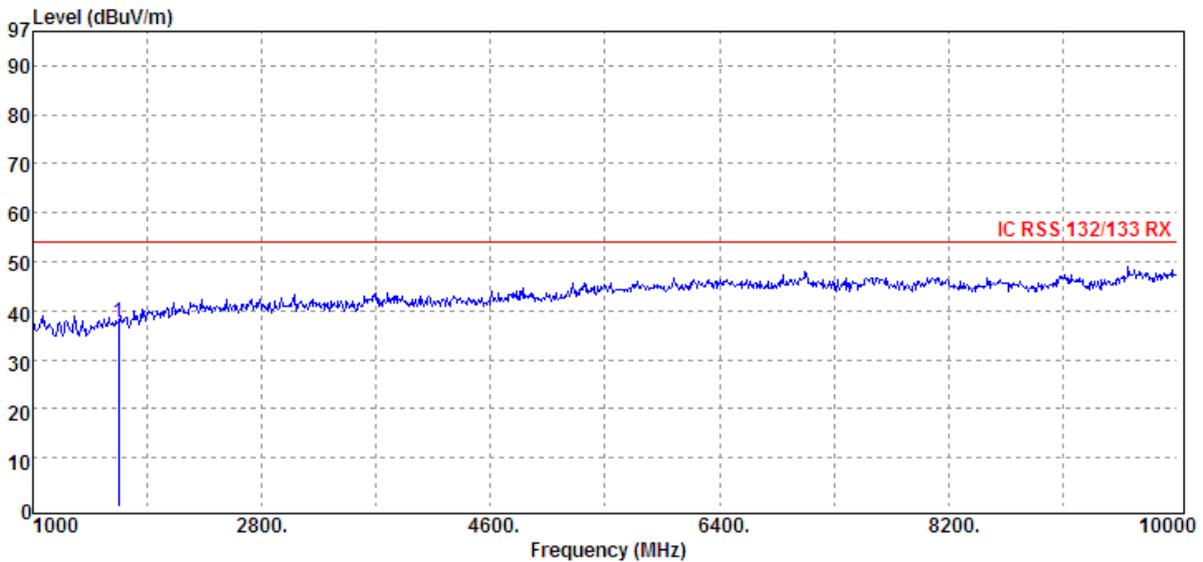
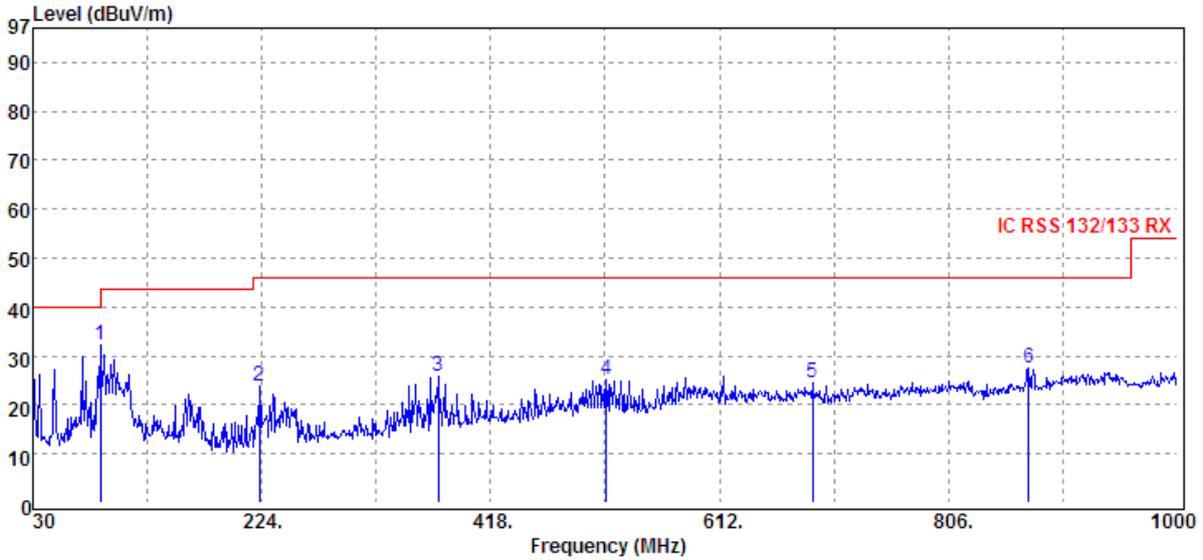
Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:826.4 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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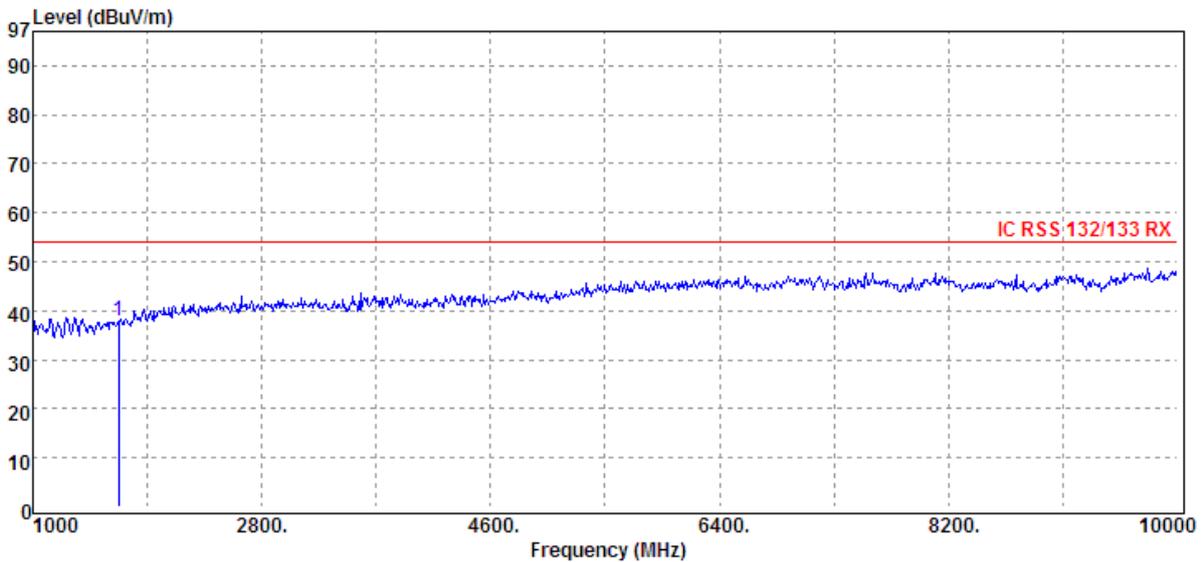
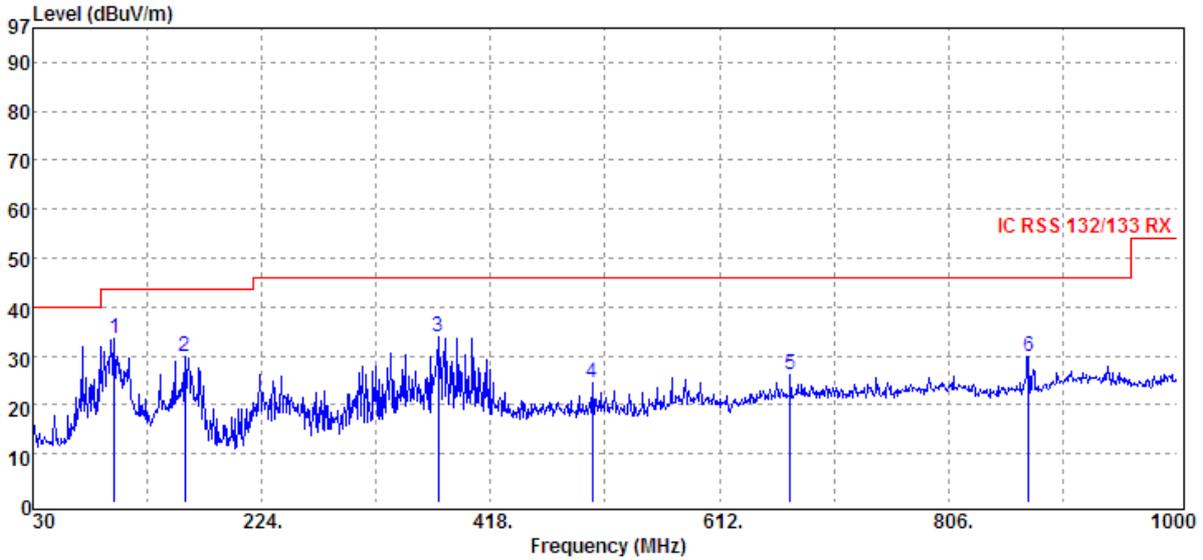
Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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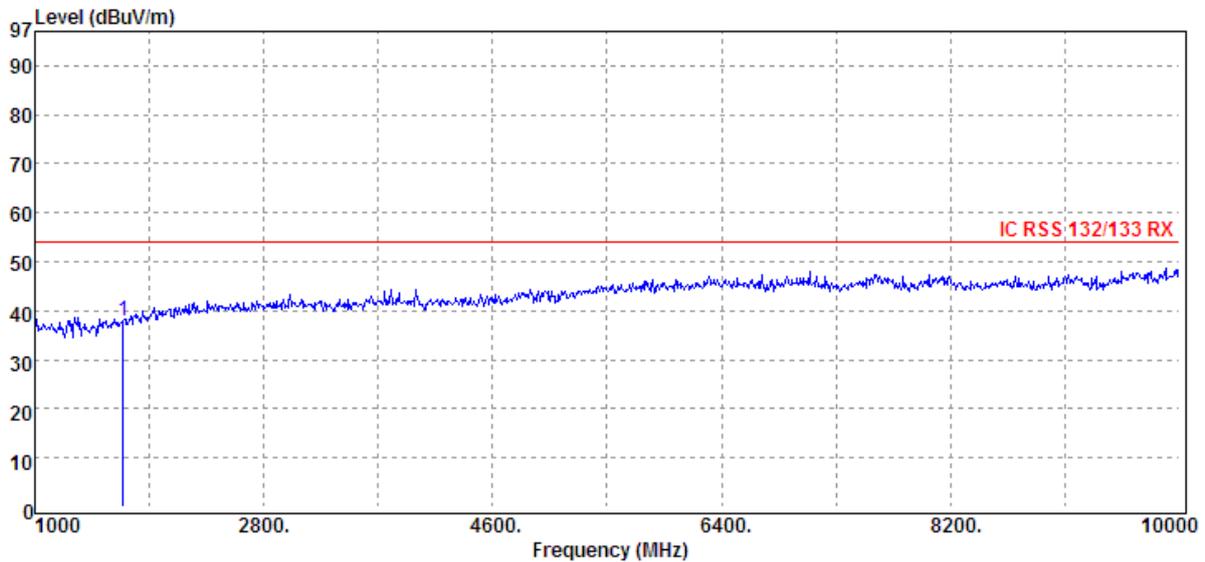
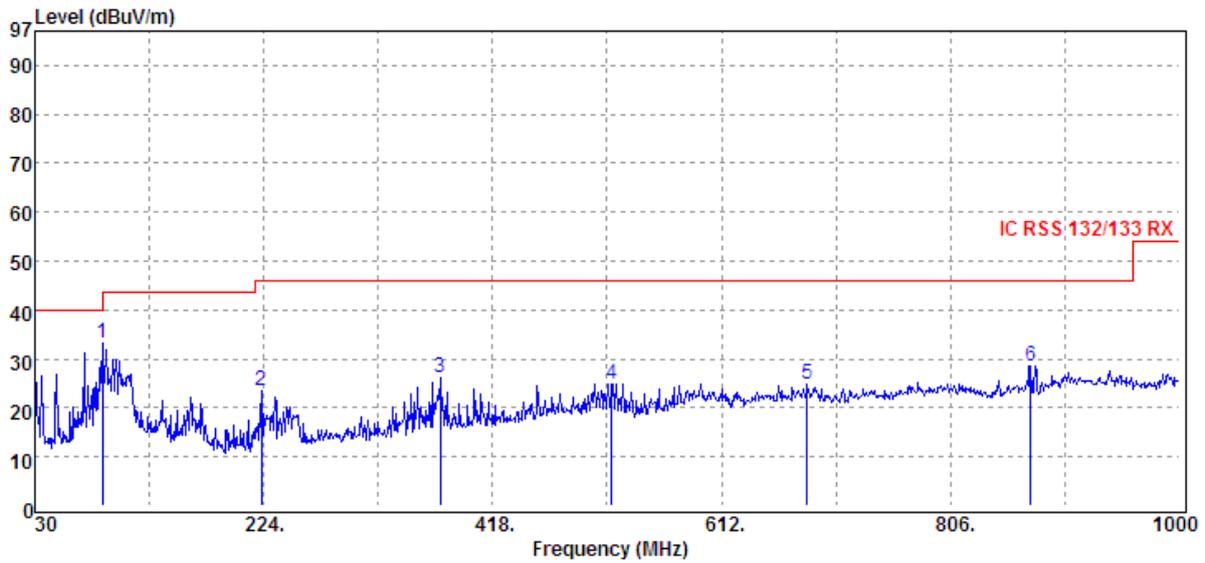
Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:836.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL



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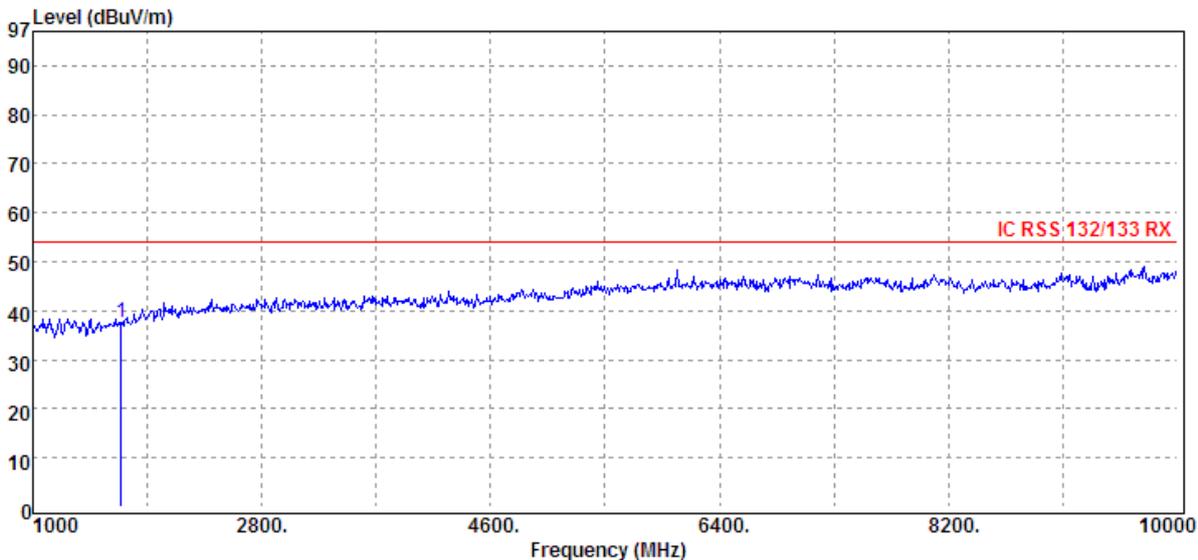
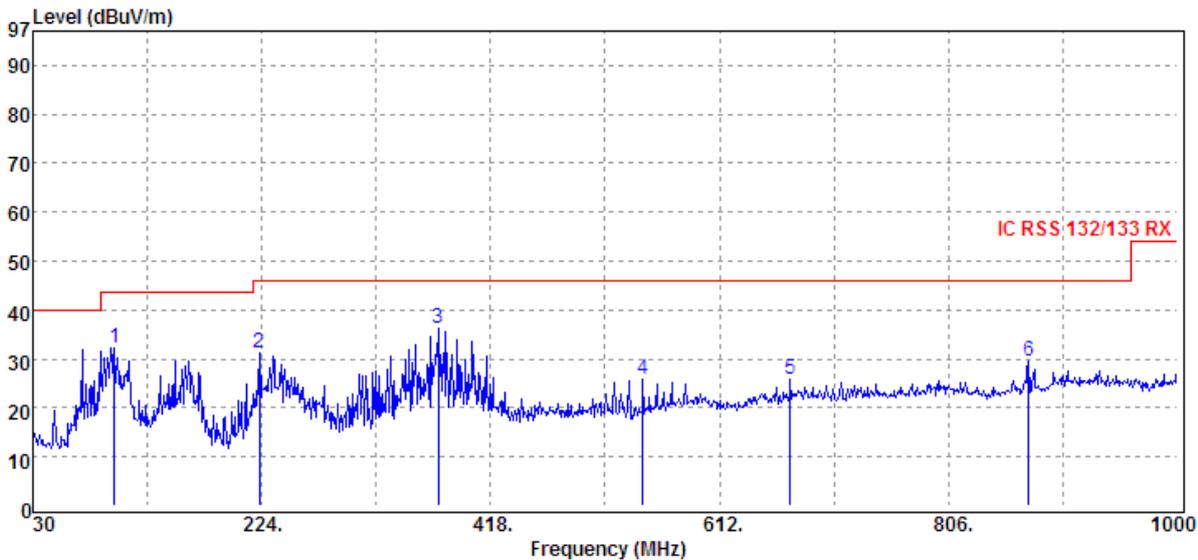
Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL



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Operation Band	:HSDPA B5	Test Date	:2014-03-01
Fundamental Frequency	:846.6 MHz	Temp./Humi.	:19.6 deg_C / 65 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL

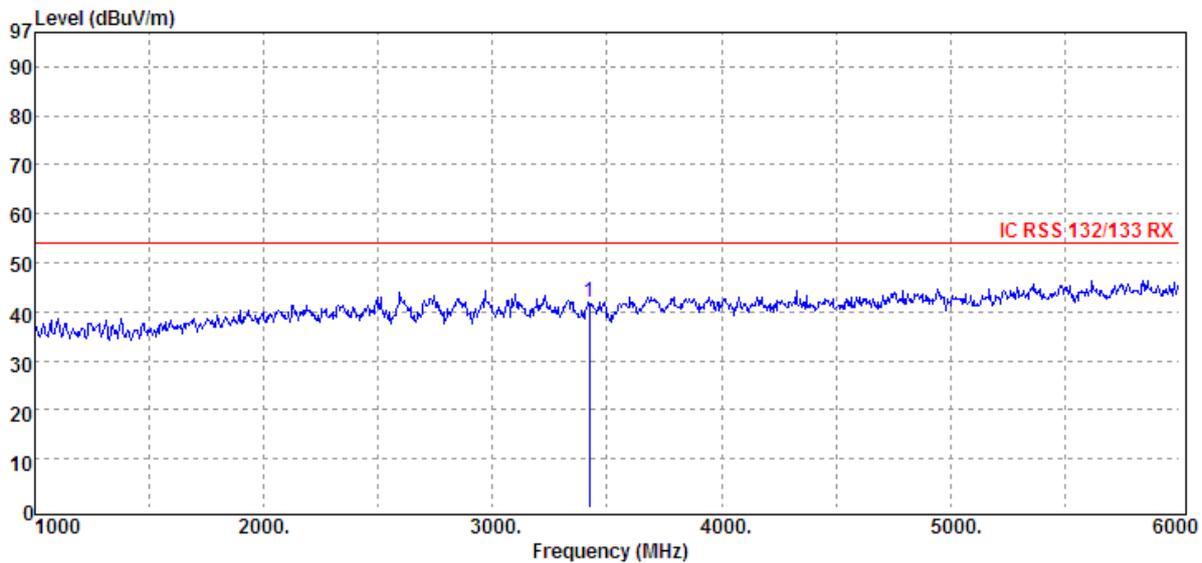
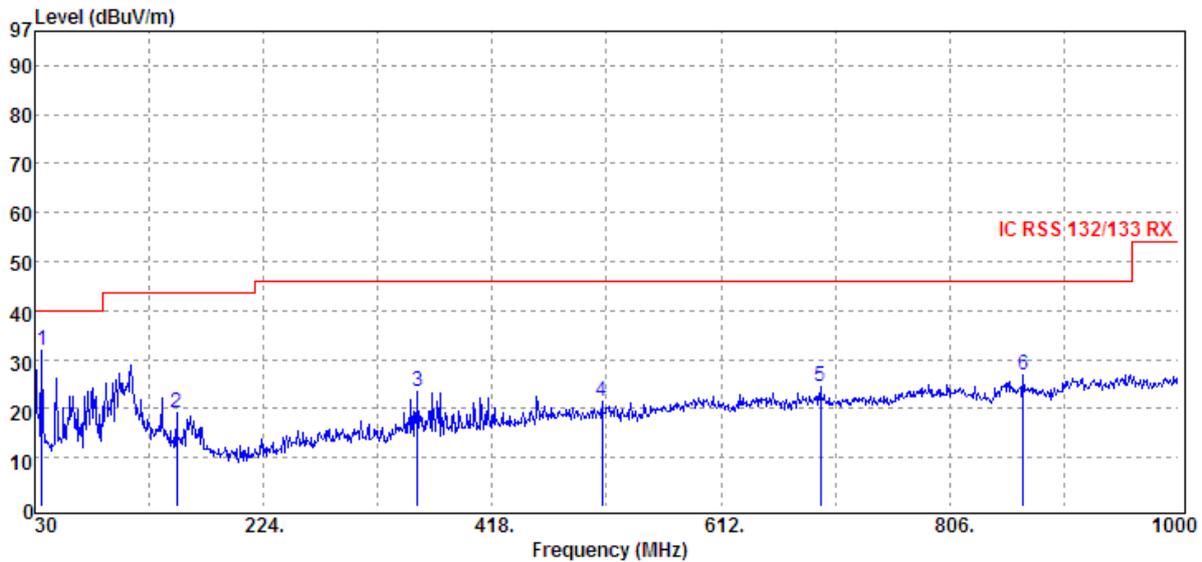


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**Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4(The Worst Case)**

Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1710.7 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B4	Test Date	:2014-02-28



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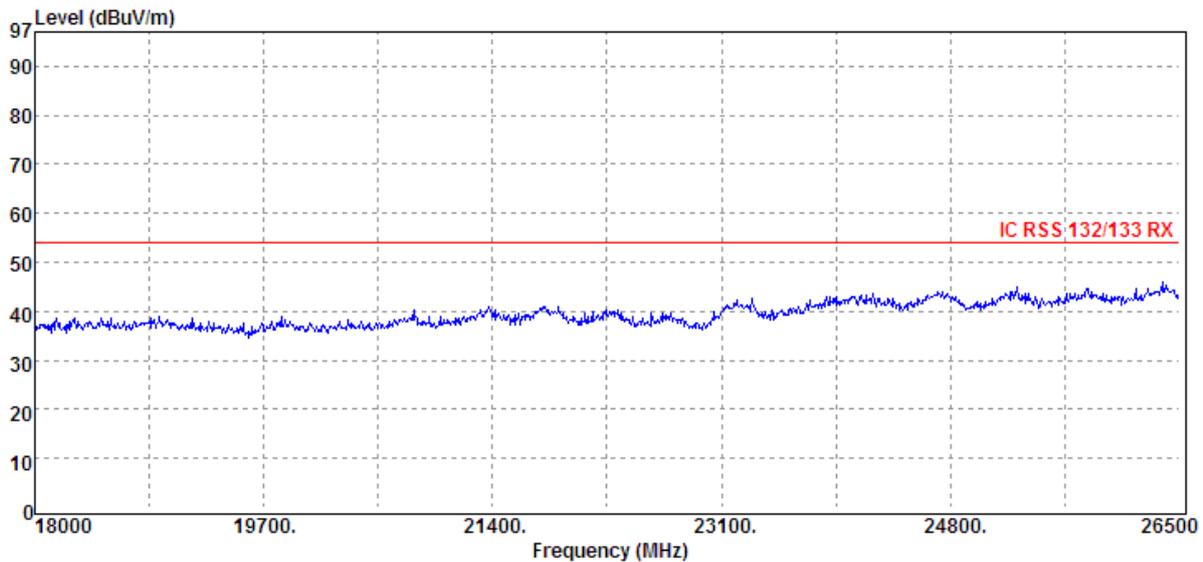
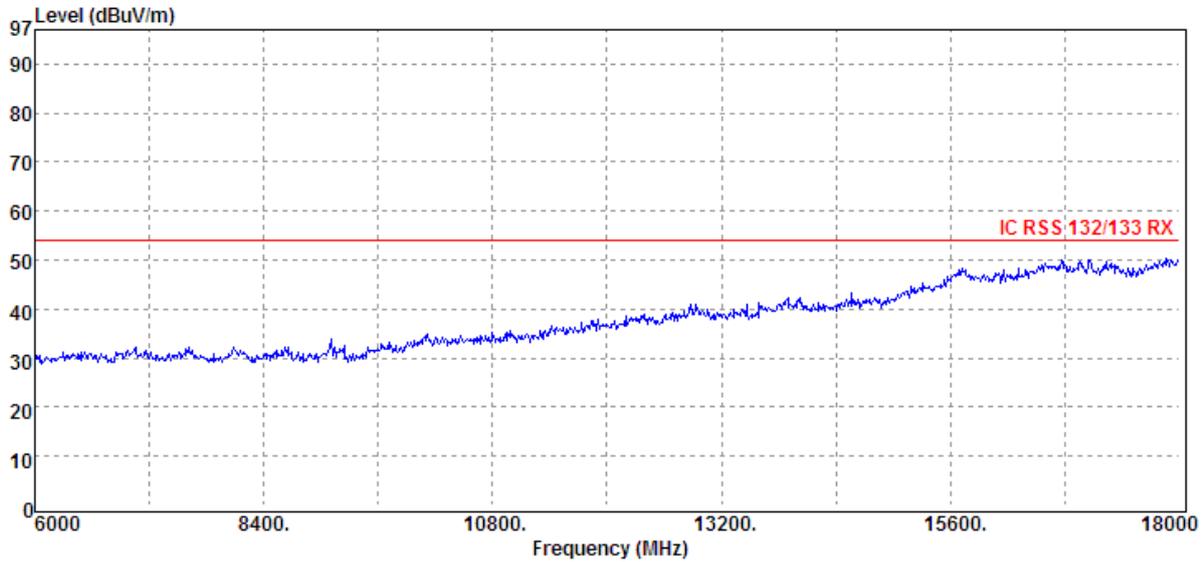
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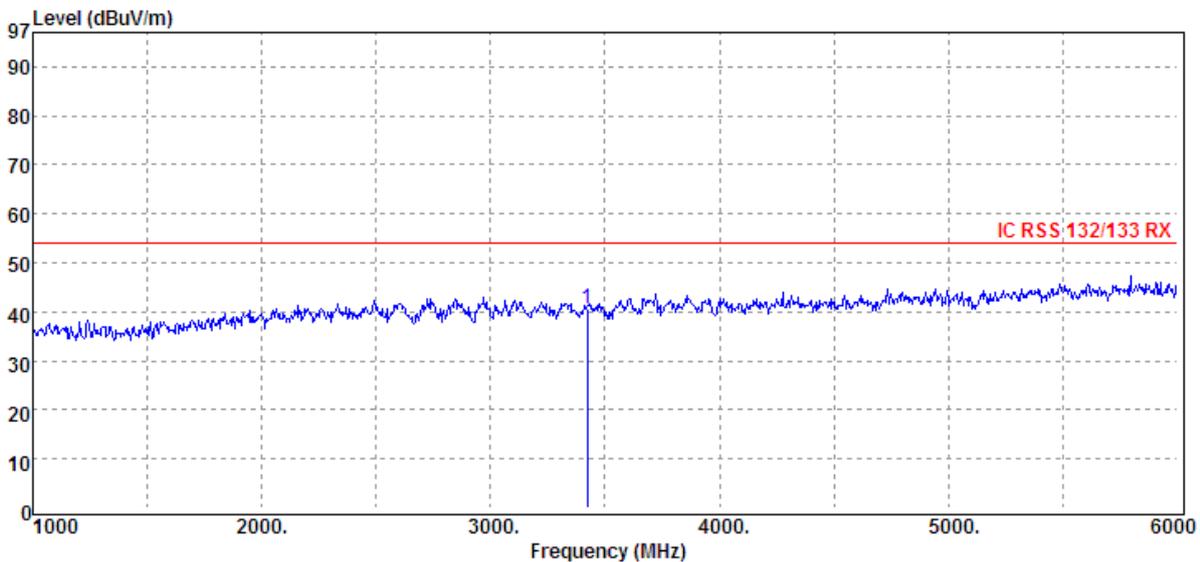
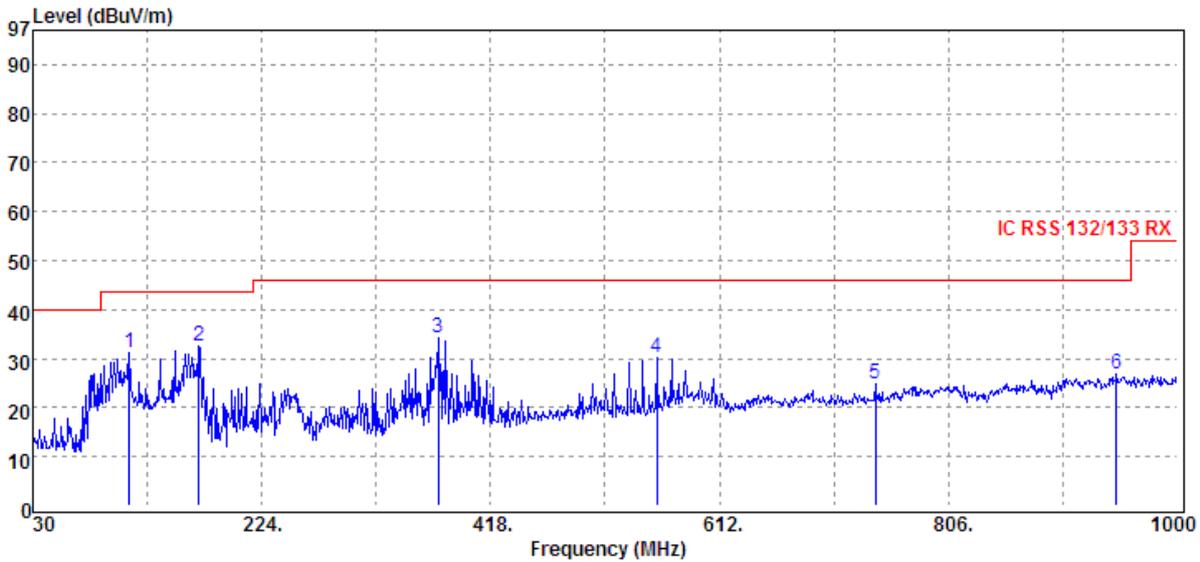
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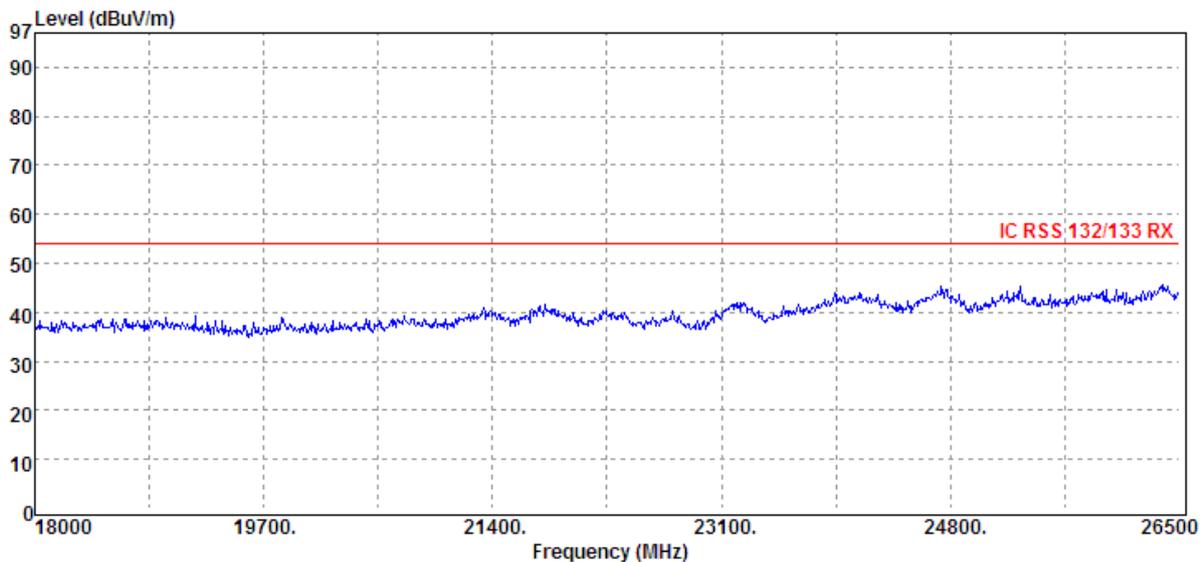
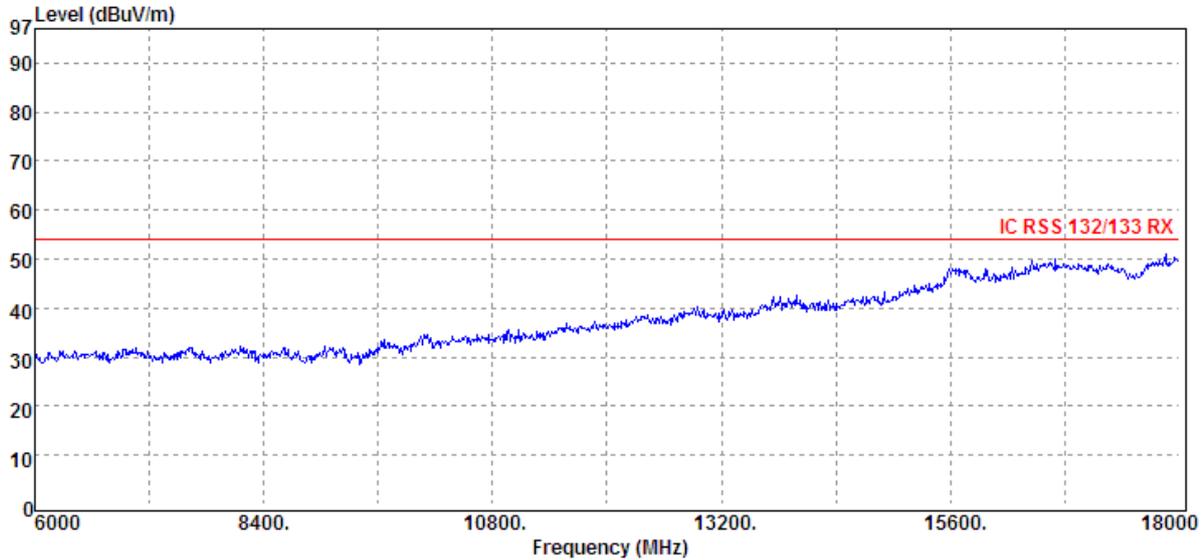
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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1710.7 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL
Operation Band	:LTE B4	Test Date	:2014-02-28



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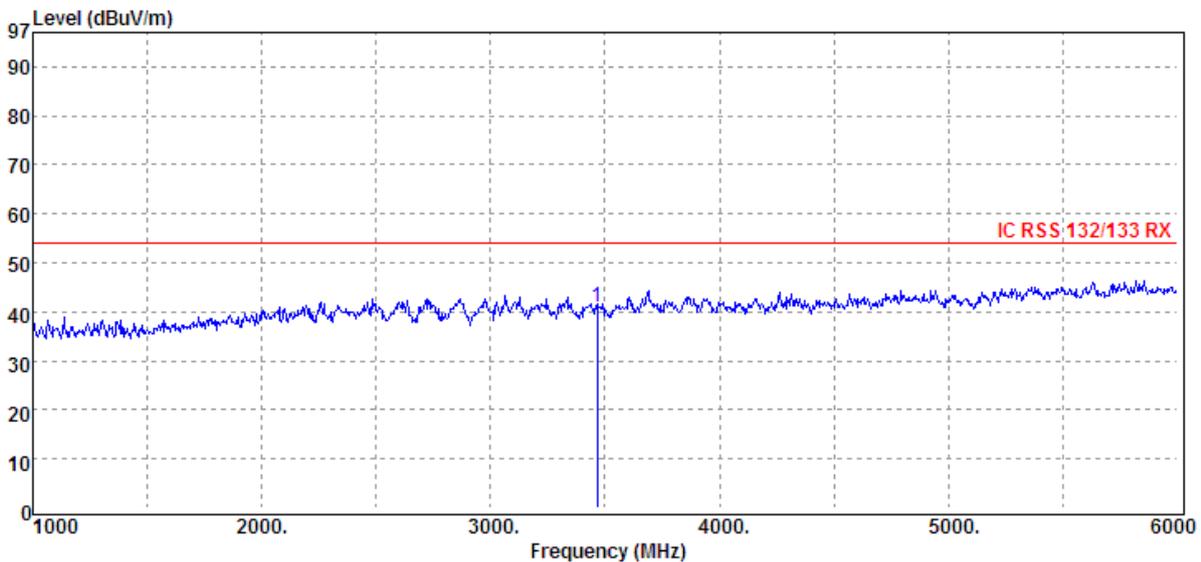
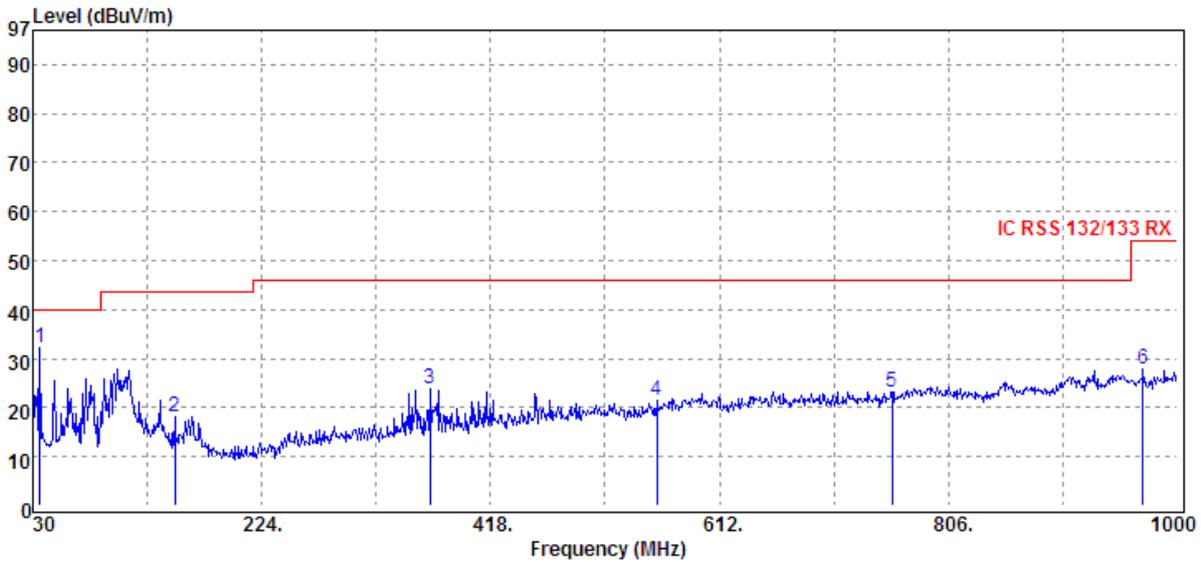
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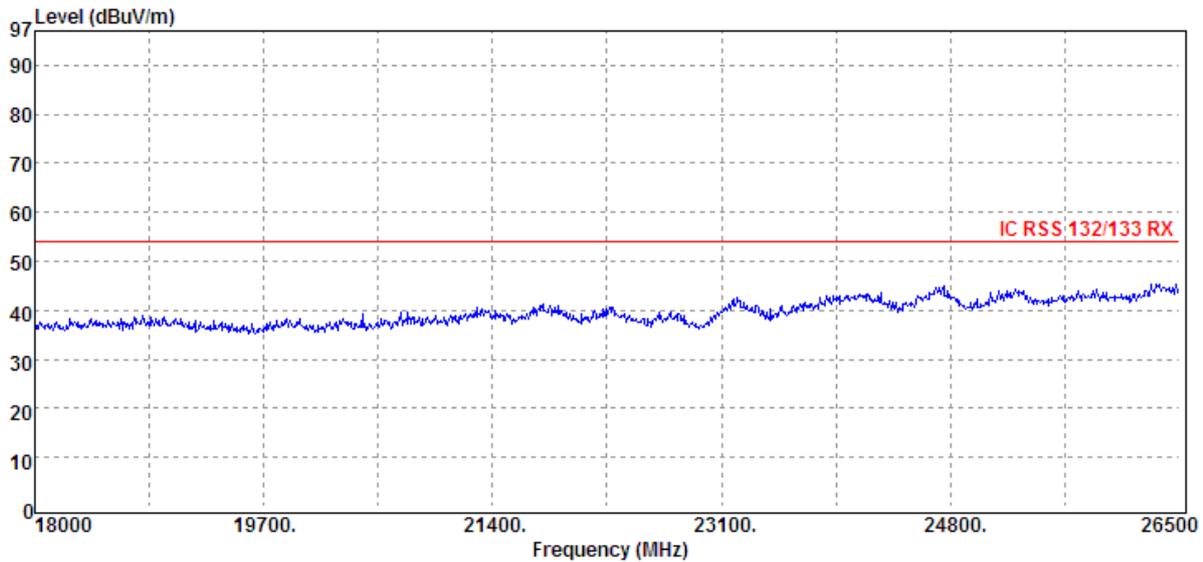
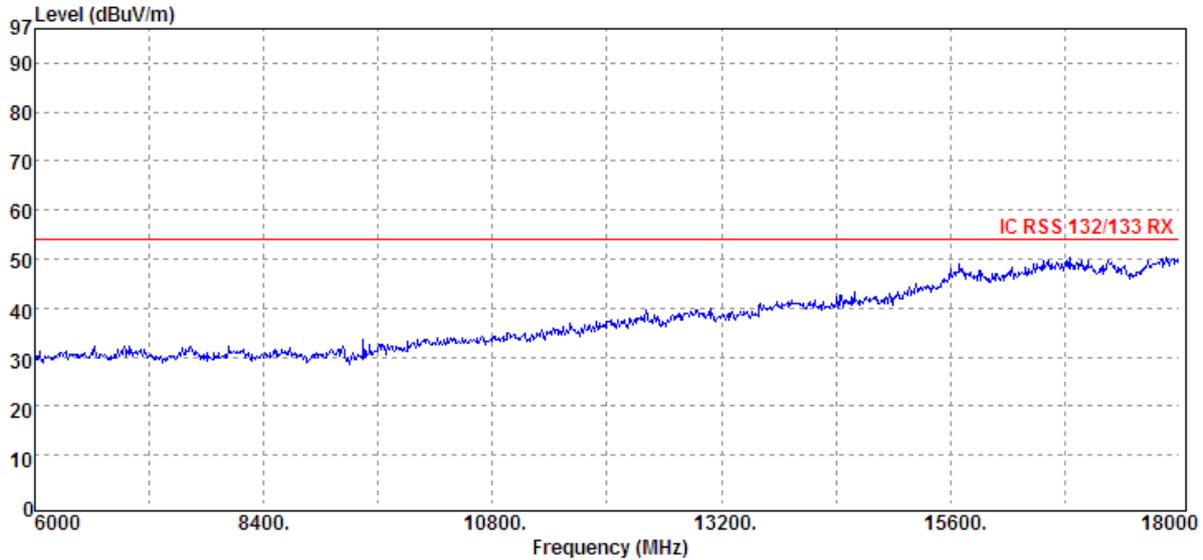
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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1732.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B4	Test Date	:2014-02-28



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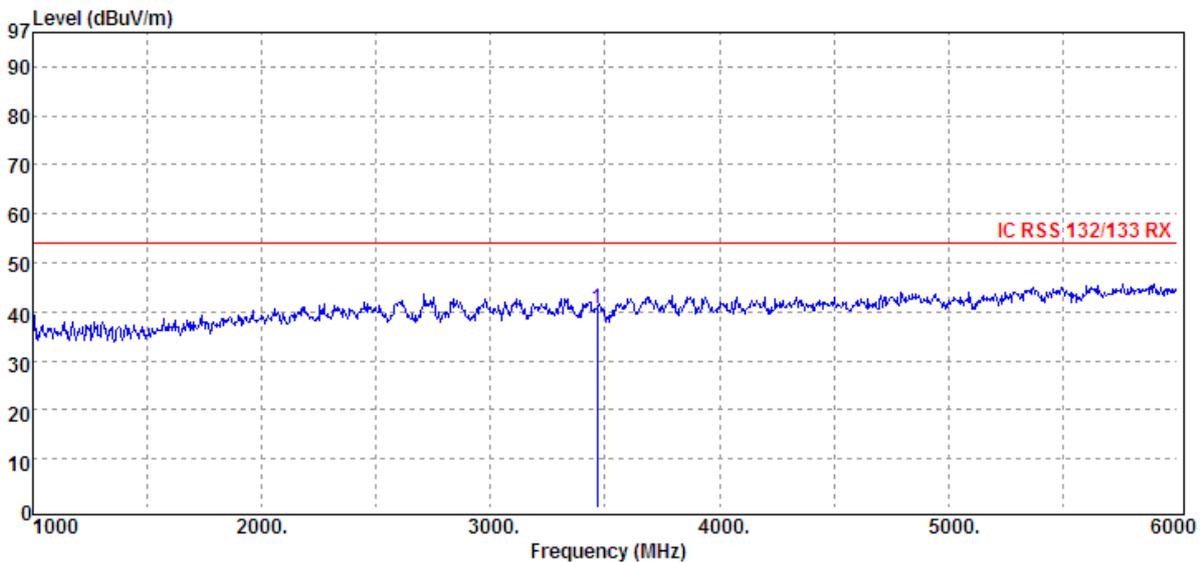
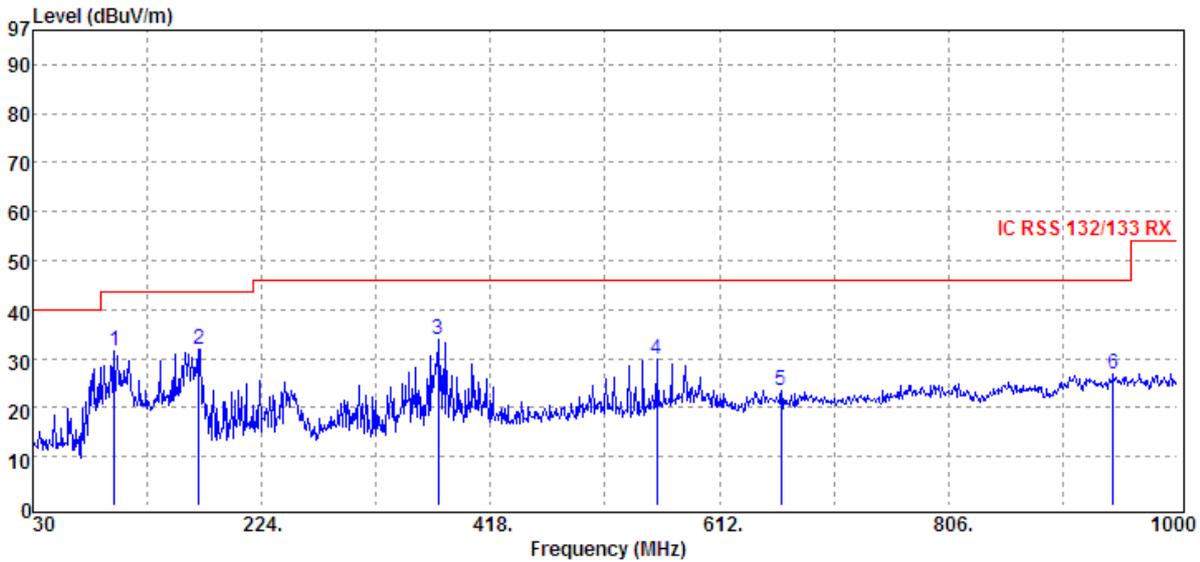
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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1732.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL
Operation Band	:LTE B4	Test Date	:2014-02-28



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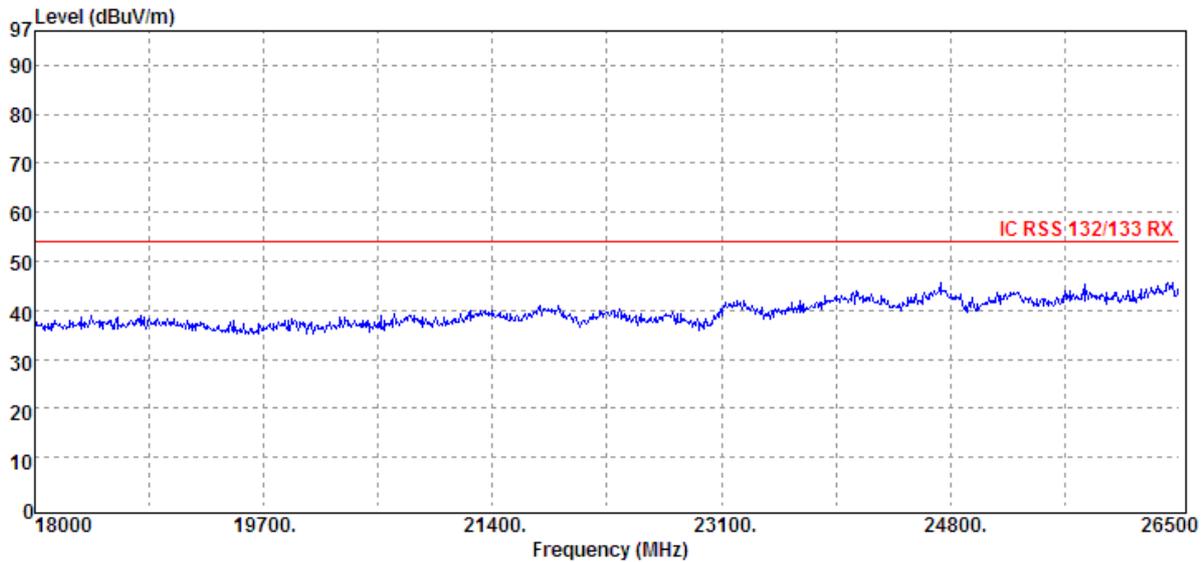
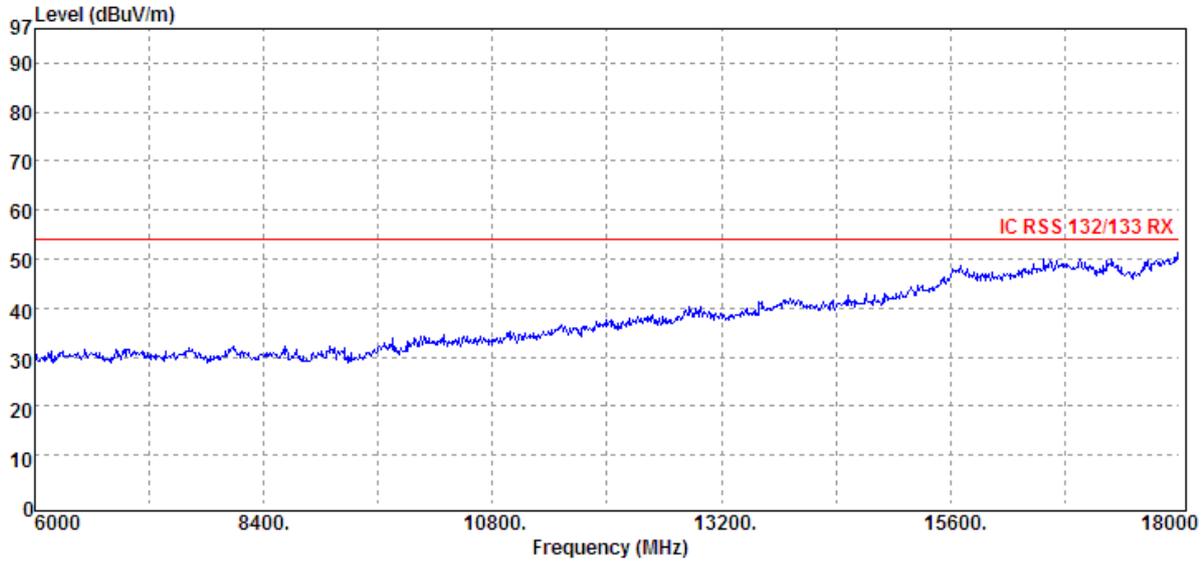
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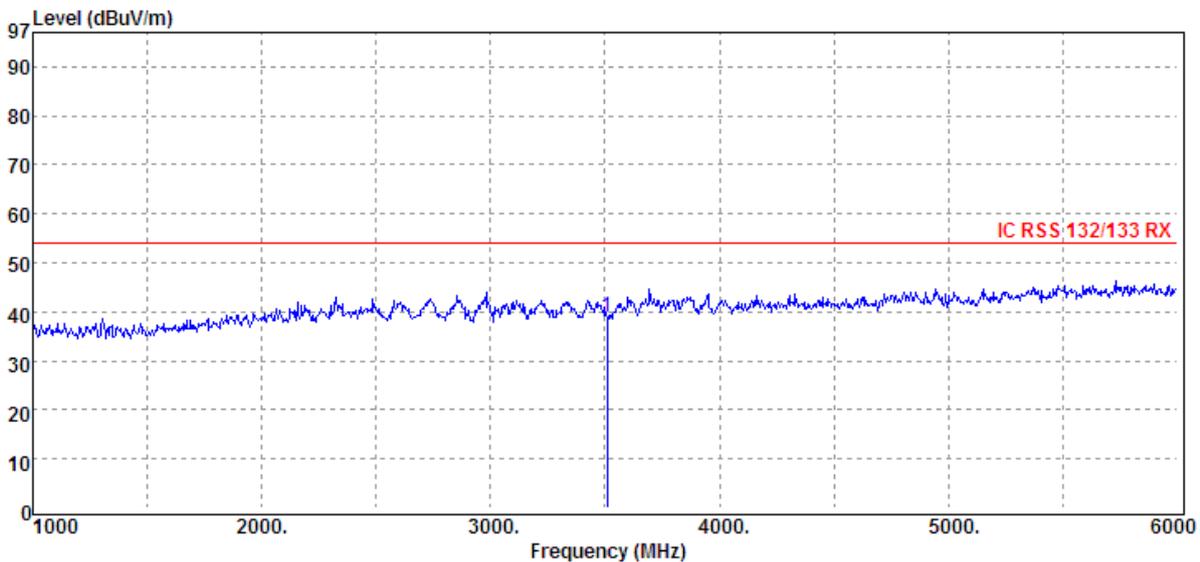
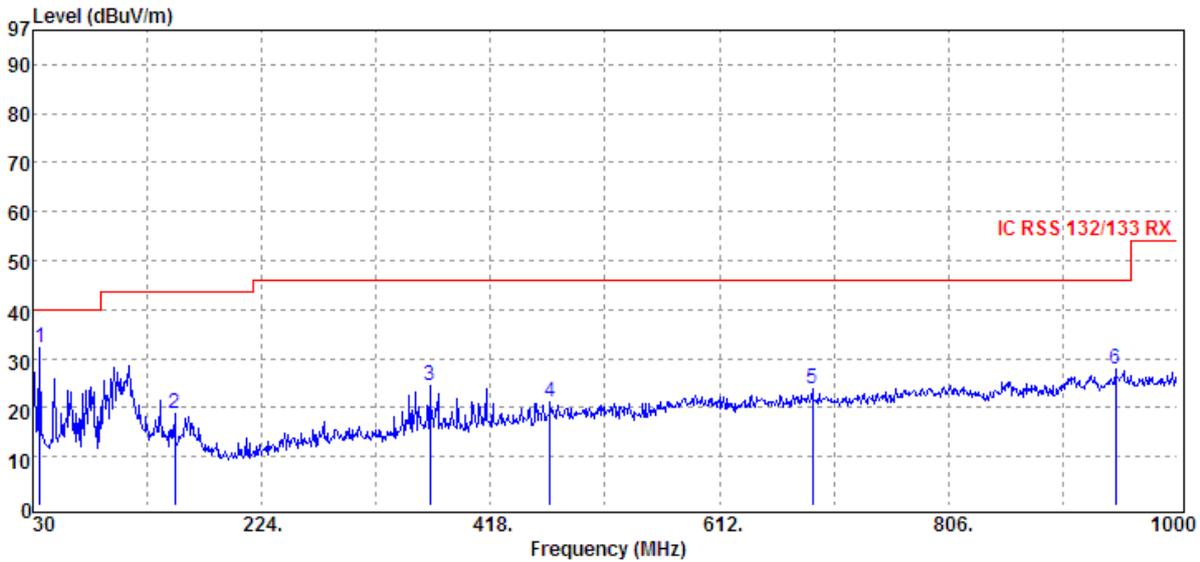
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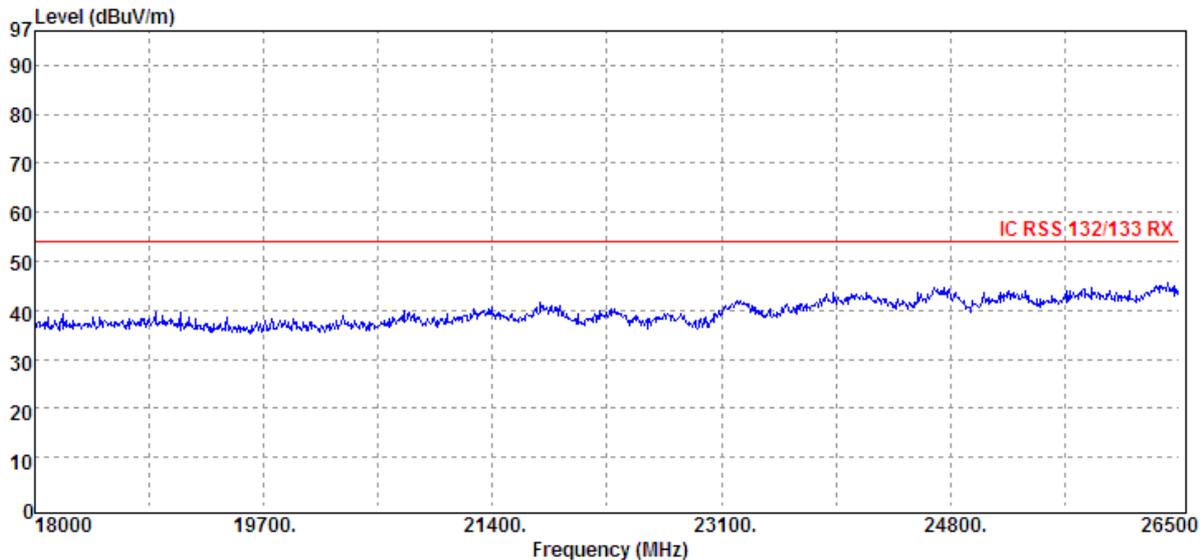
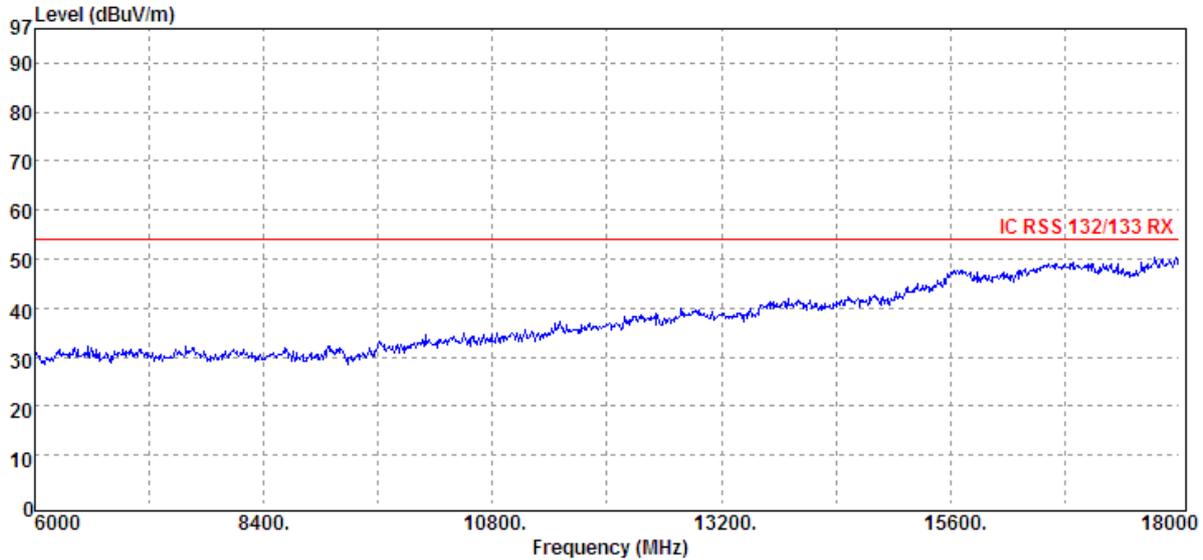
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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1754.3 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B4	Test Date	:2014-02-28



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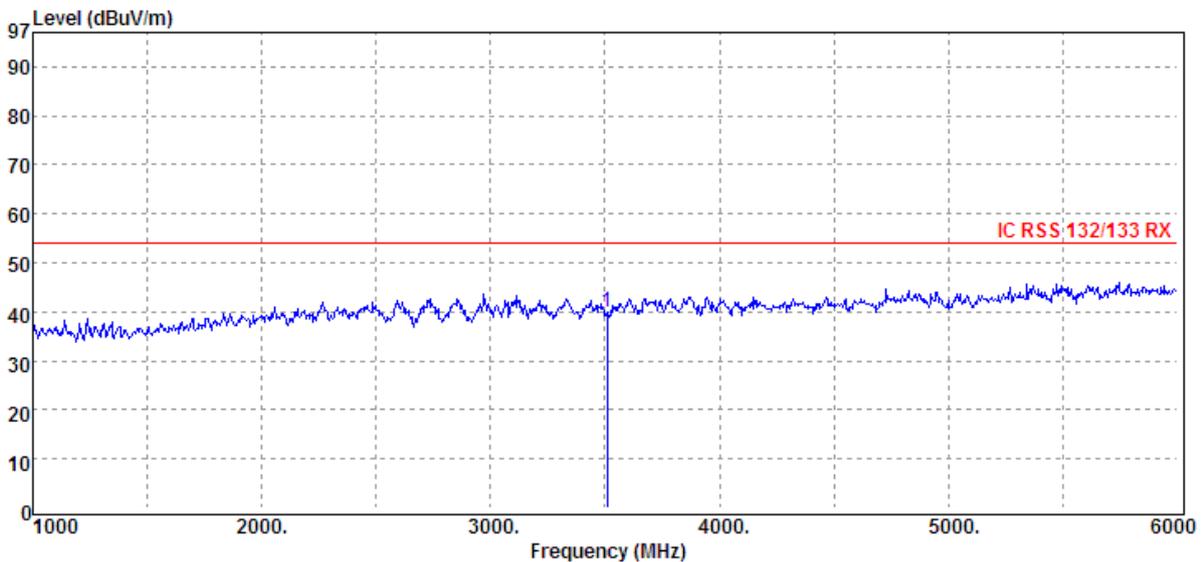
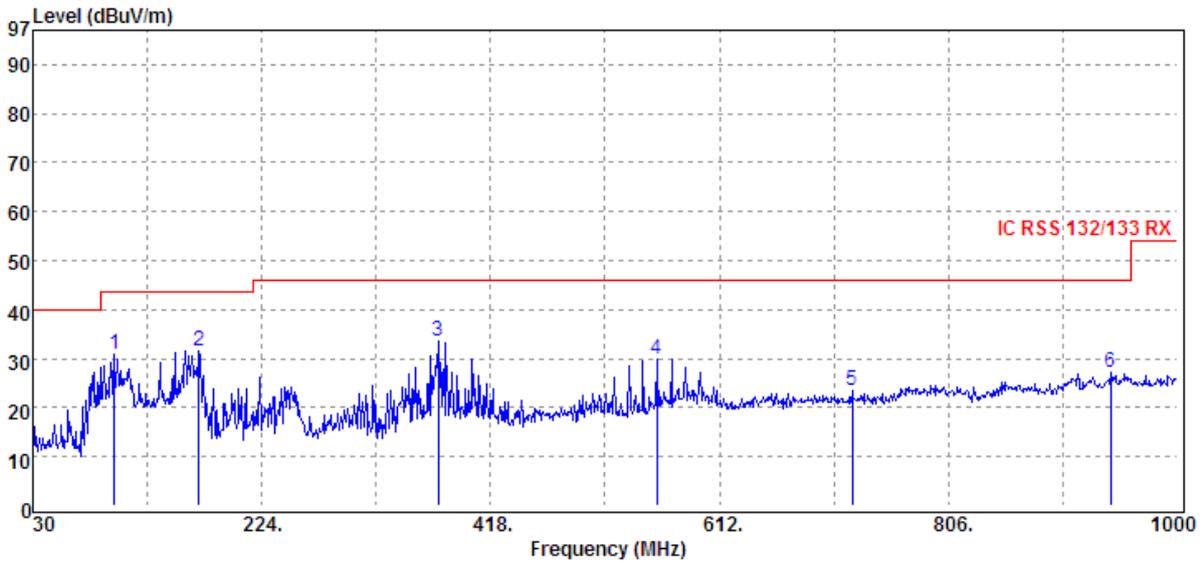
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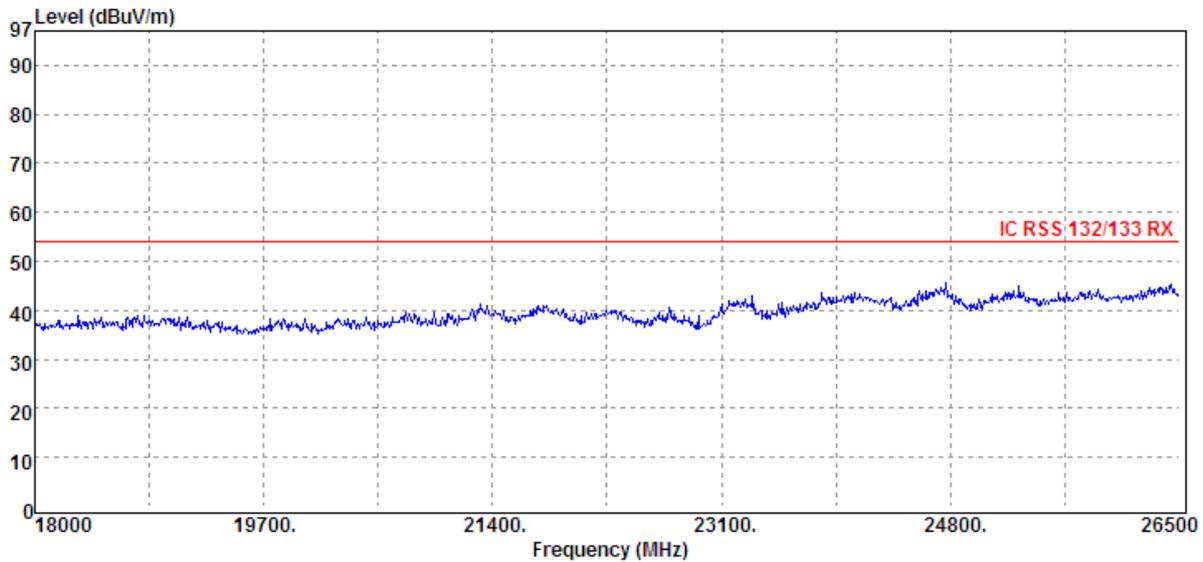
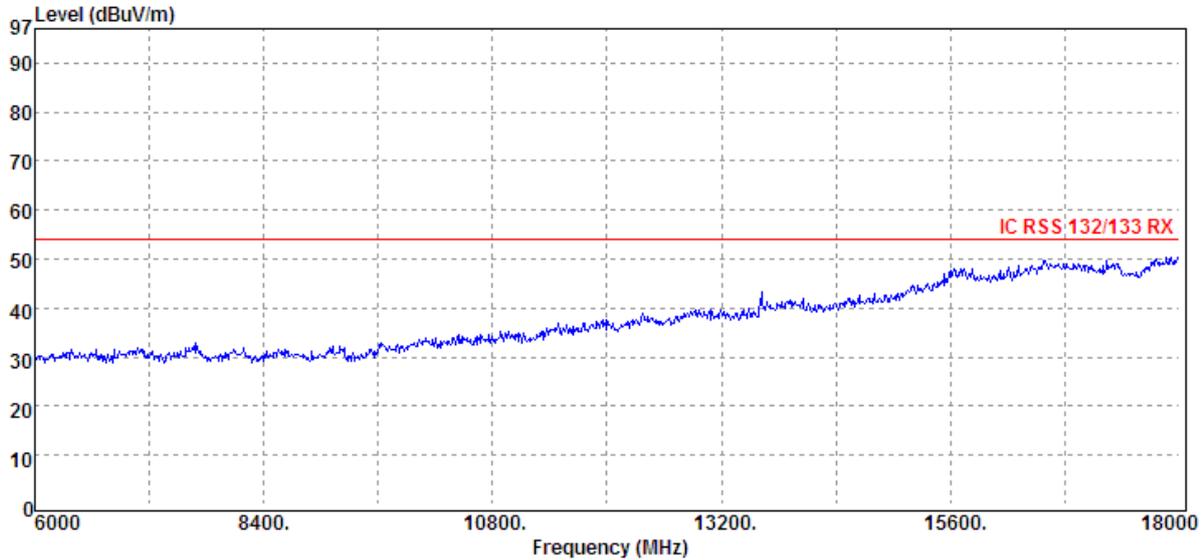
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Operation Band	:LTE B4	Test Date	:2014-02-28
Fundamental Frequency	:1754.3 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL
Operation Band	:LTE B4	Test Date	:2014-02-28



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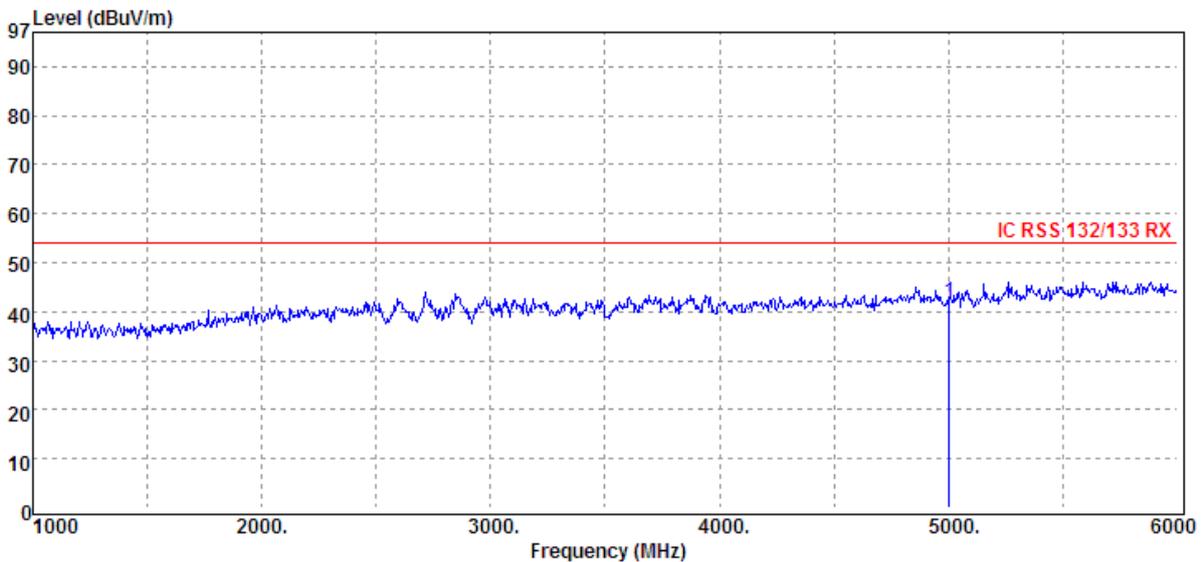
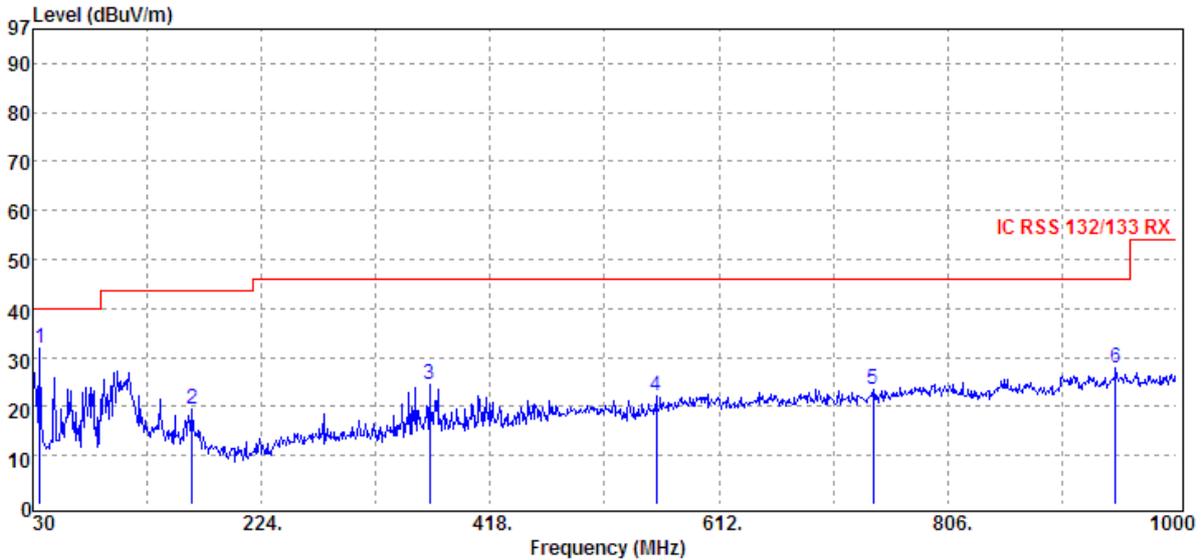
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 7(The Worst Case)**

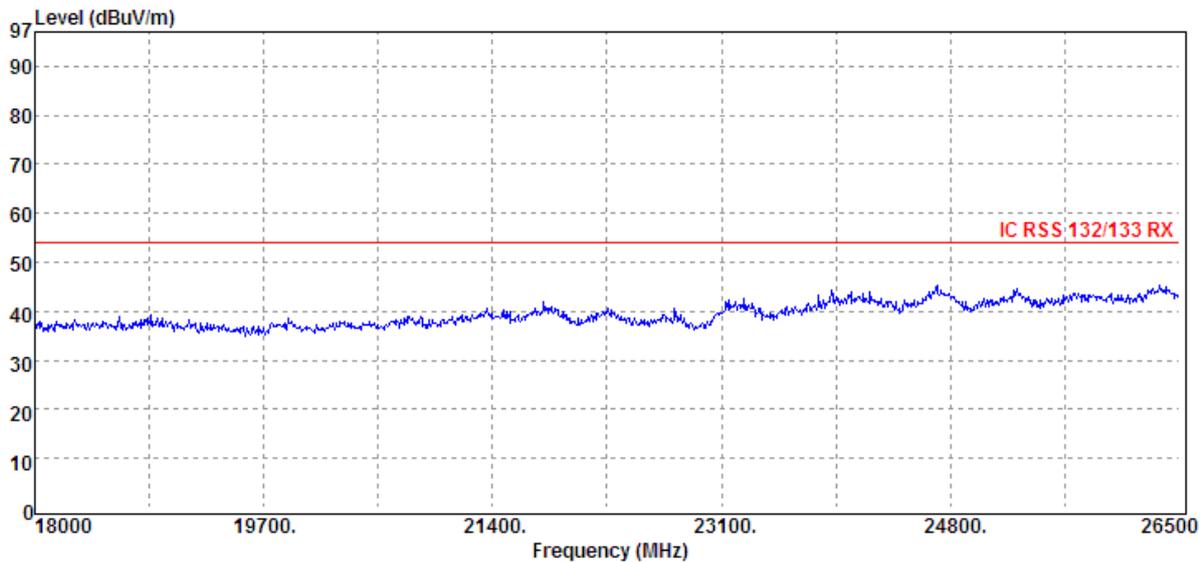
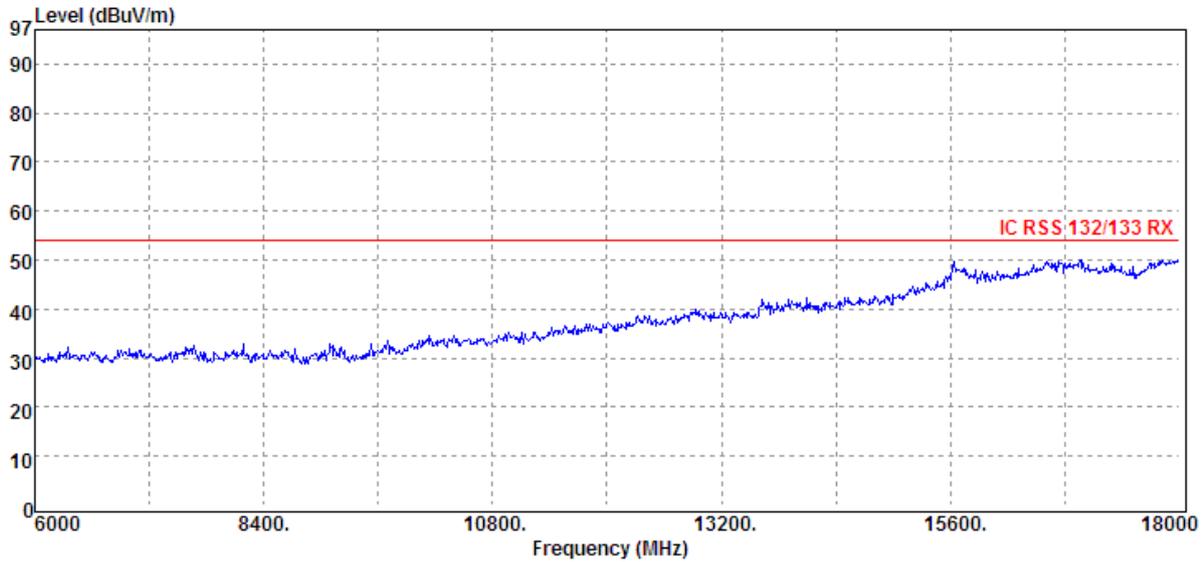
Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2502.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B7	Test Date	:2014-02-28



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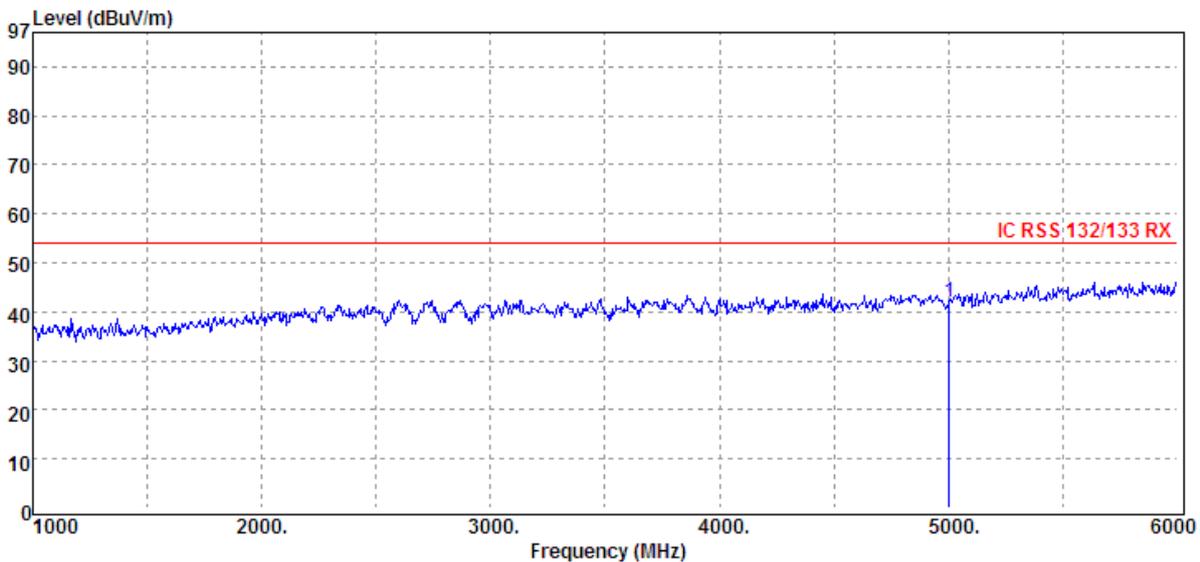
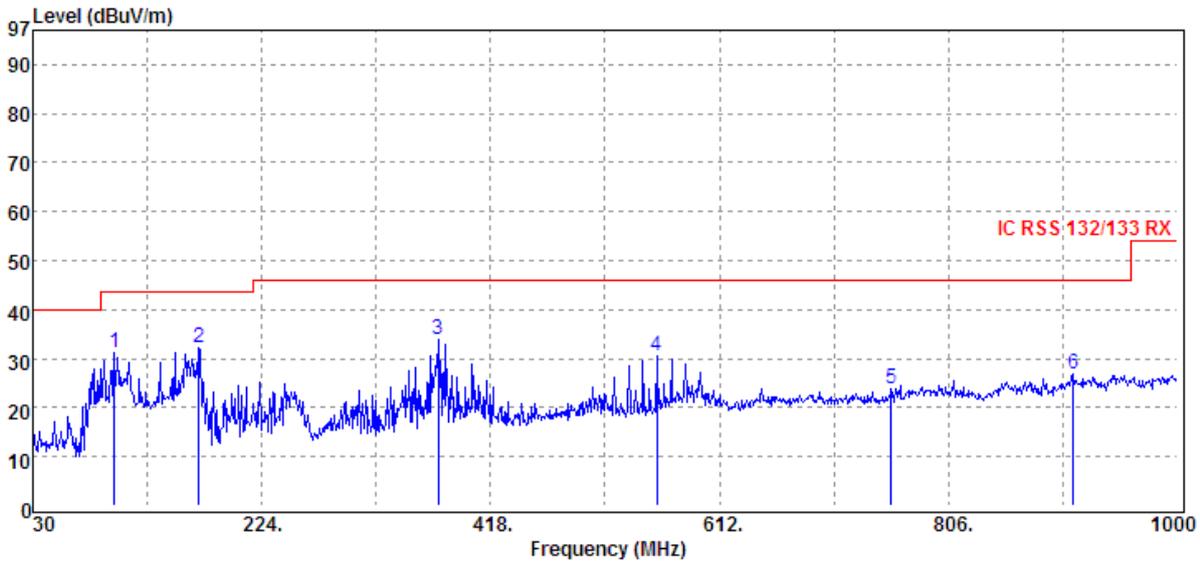
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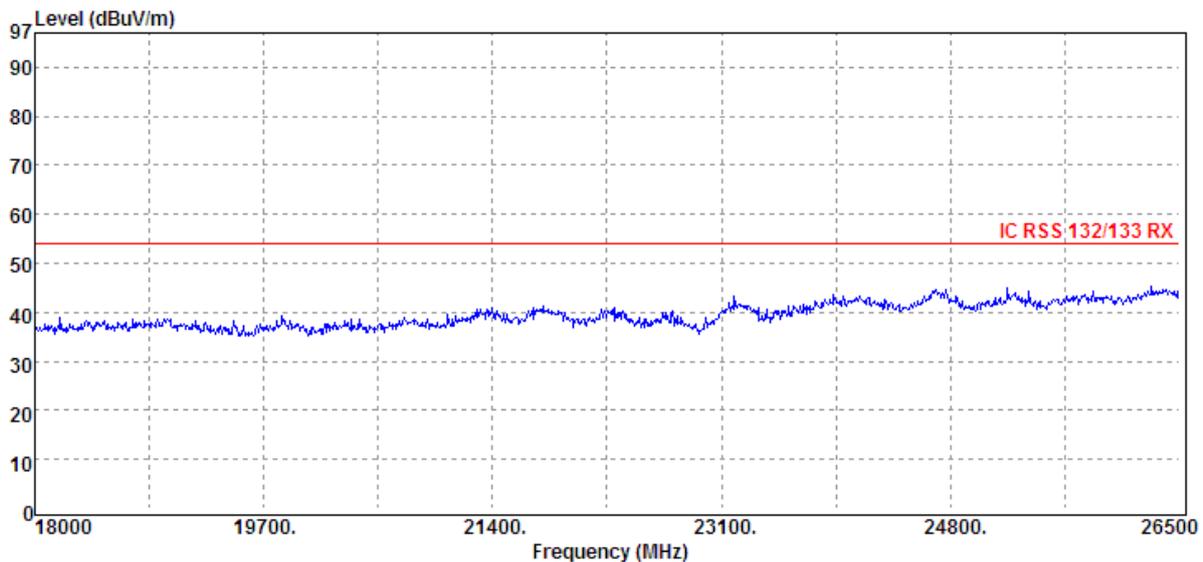
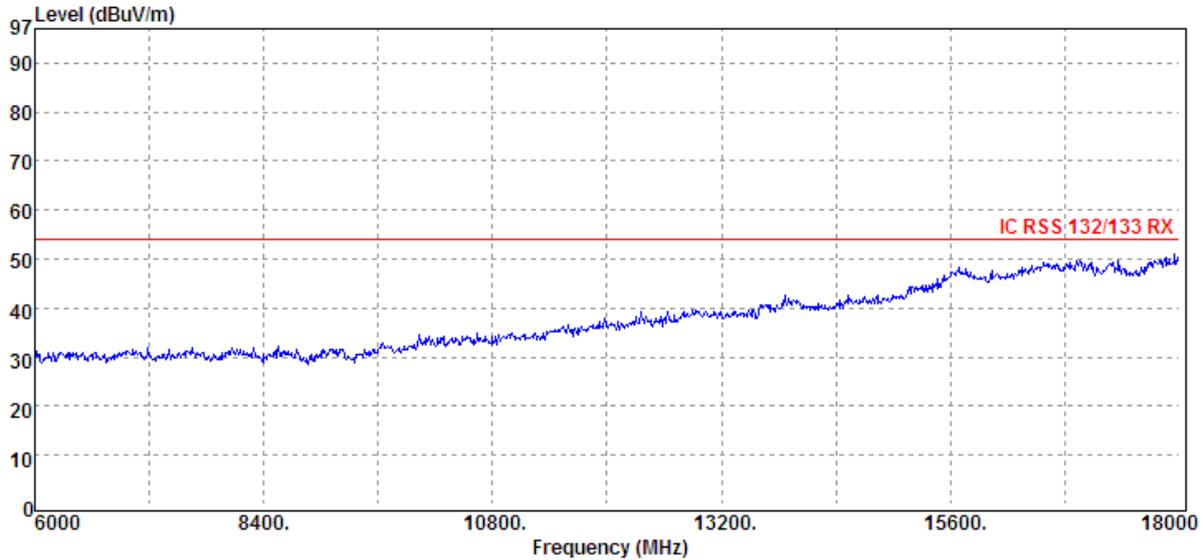
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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2502.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL
Operation Band	:LTE B7	Test Date	:2014-02-28



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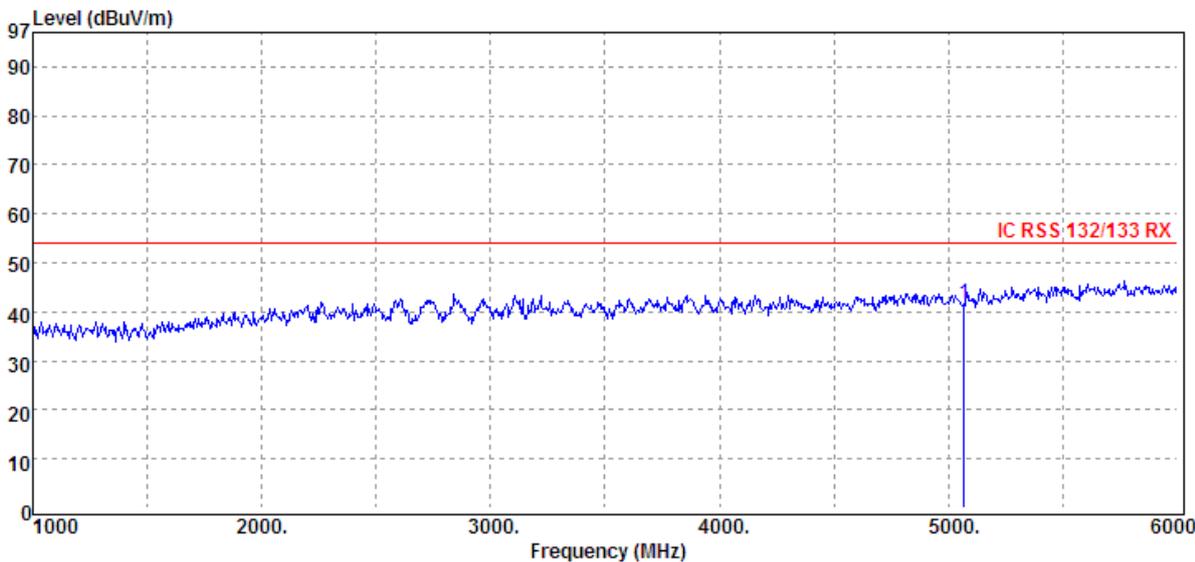
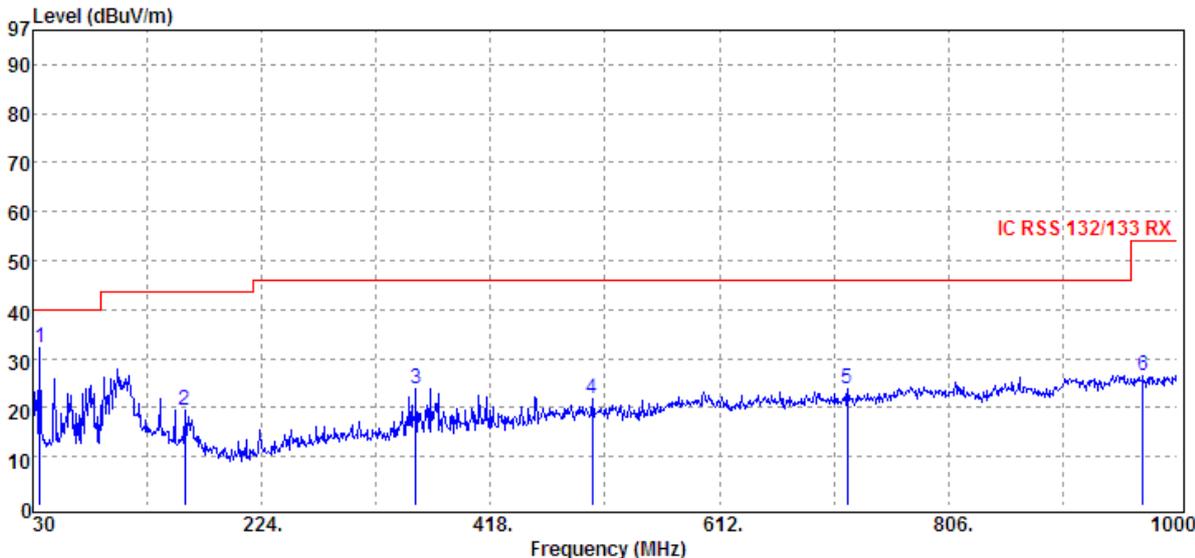
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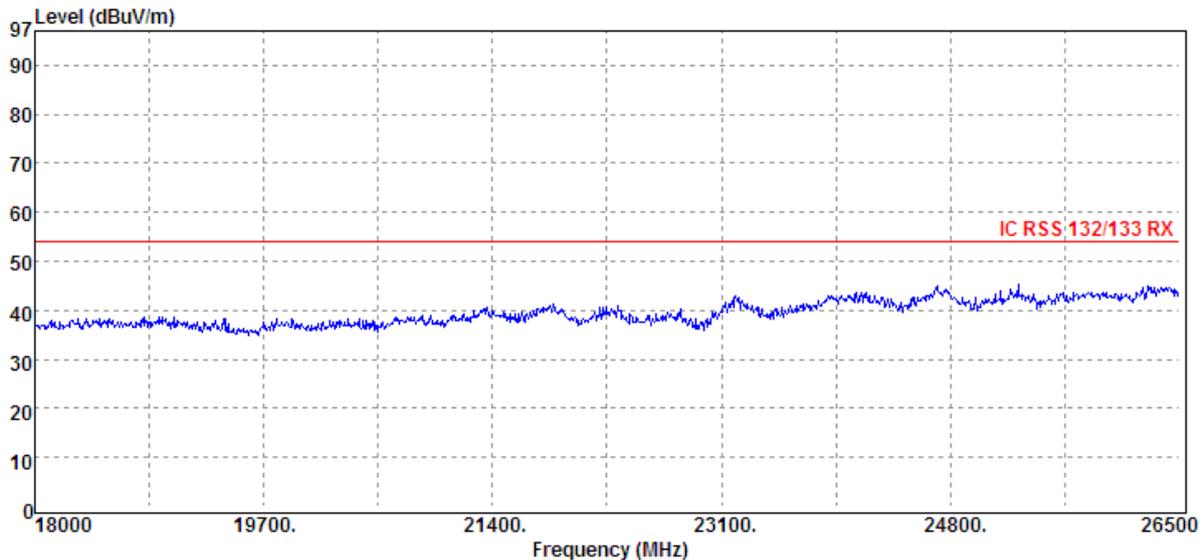
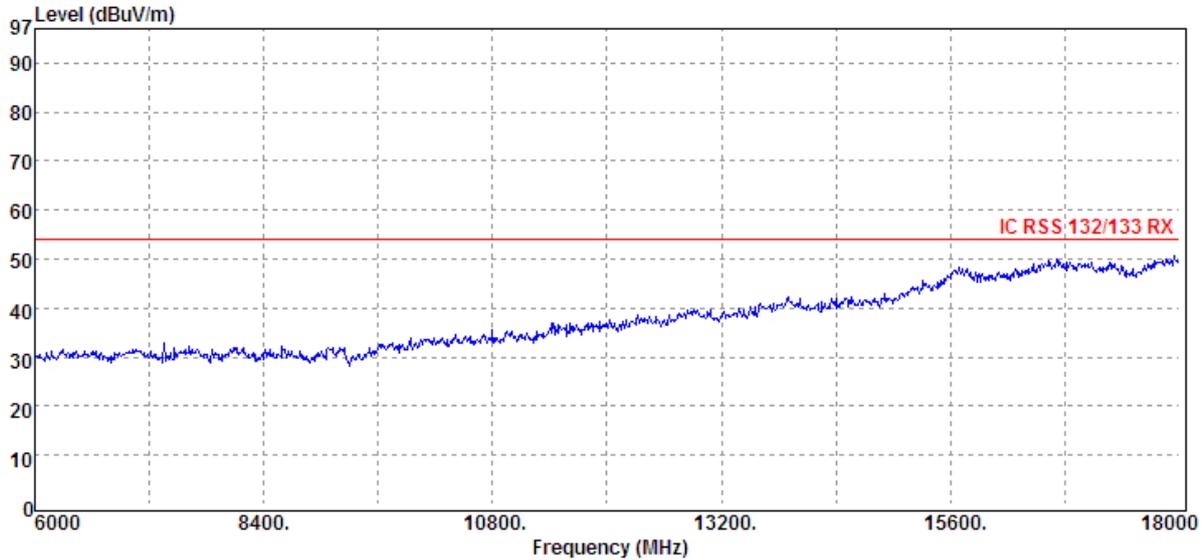
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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2535 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B7	Test Date	:2014-02-28



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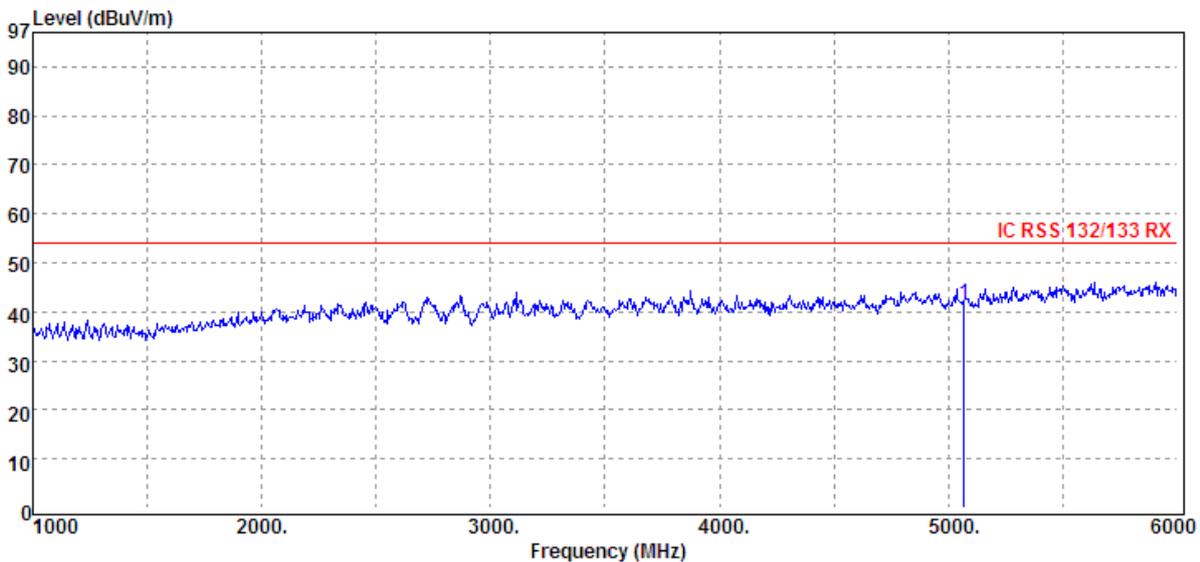
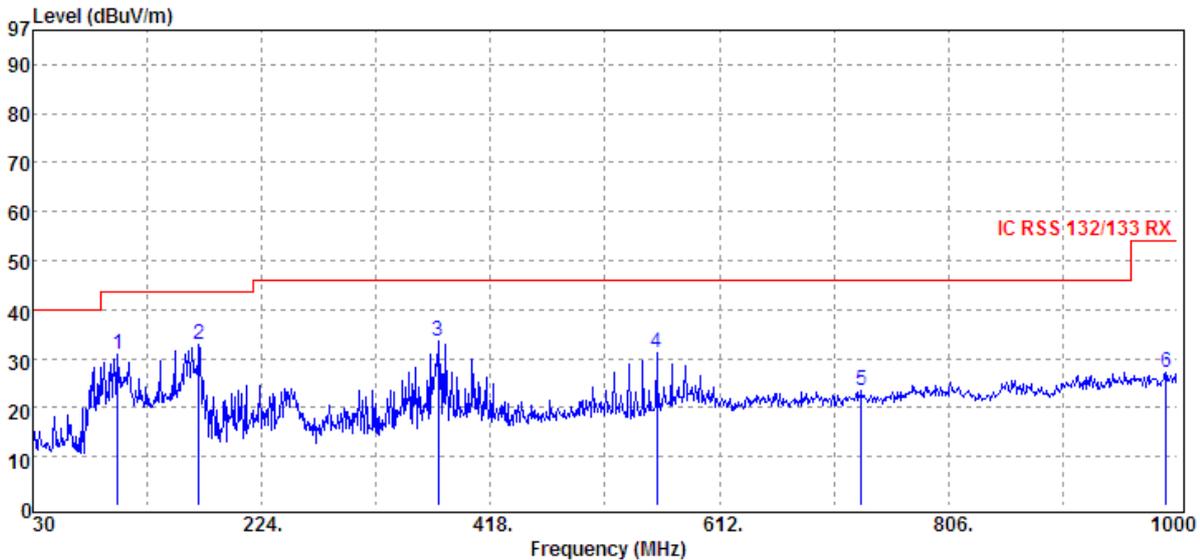
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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2535 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL
Operation Band	:LTE B7	Test Date	:2014-02-28



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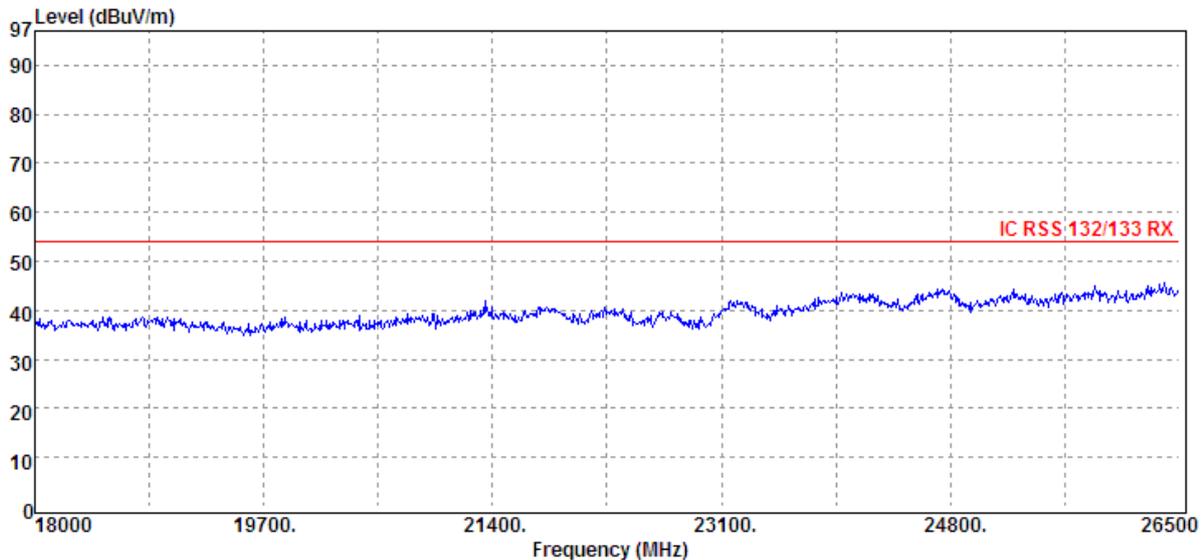
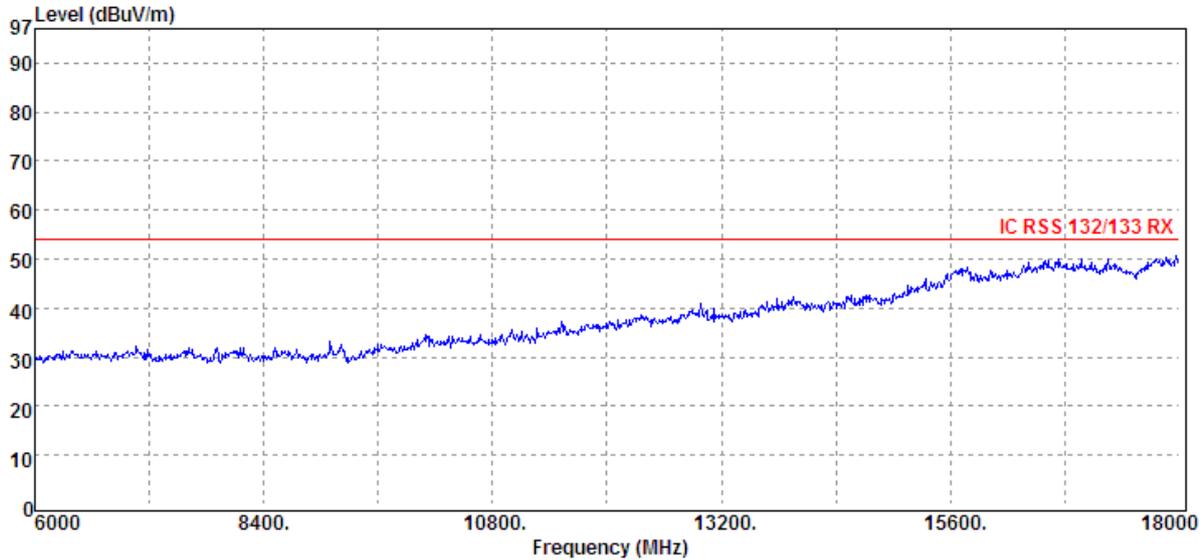
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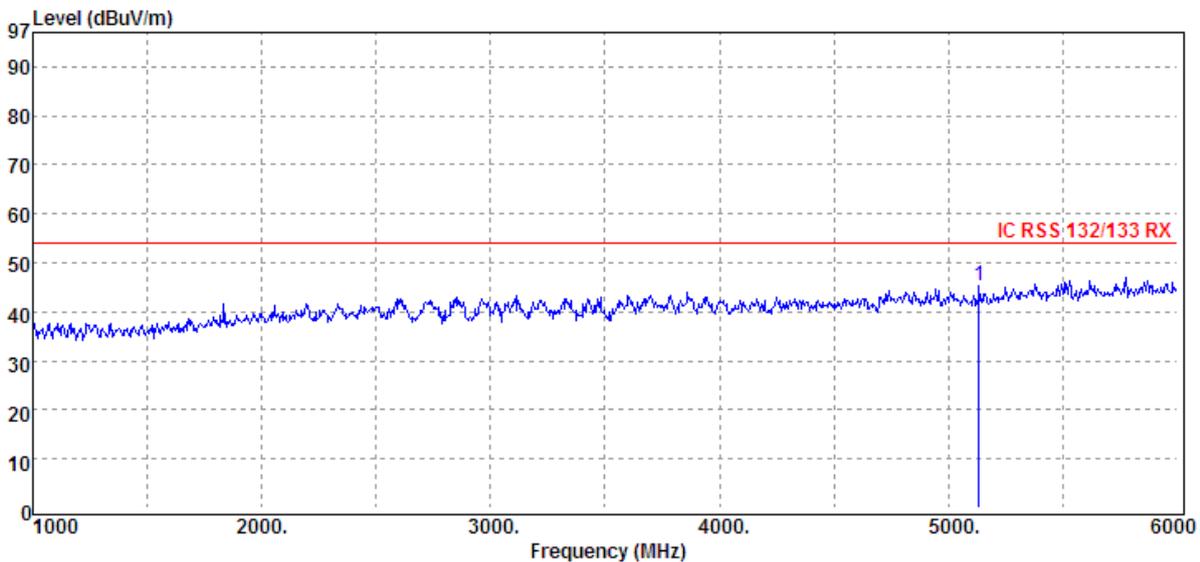
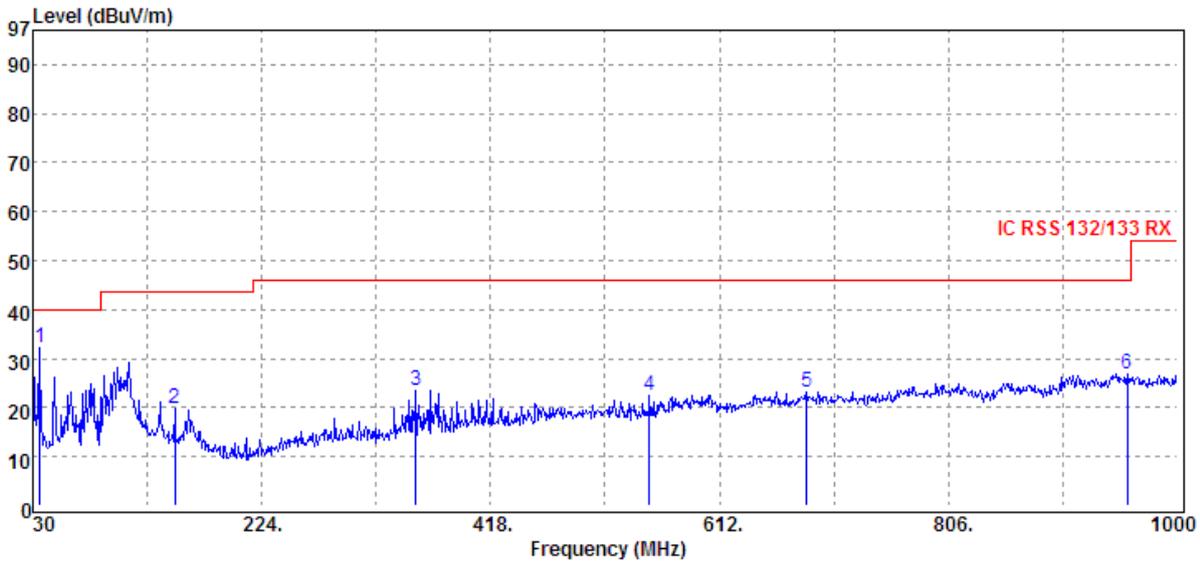
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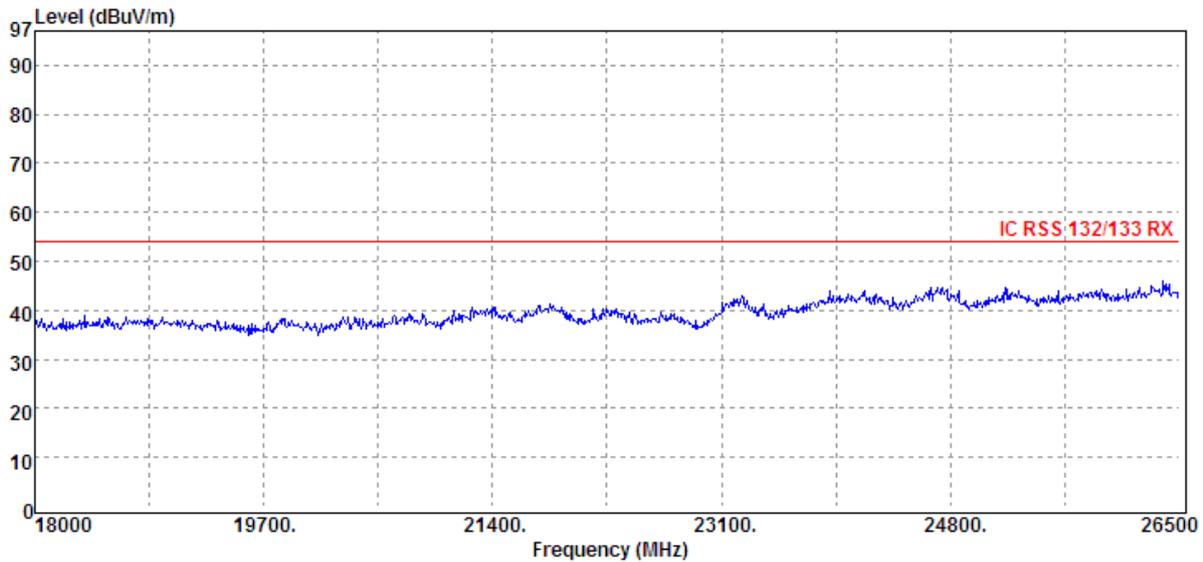
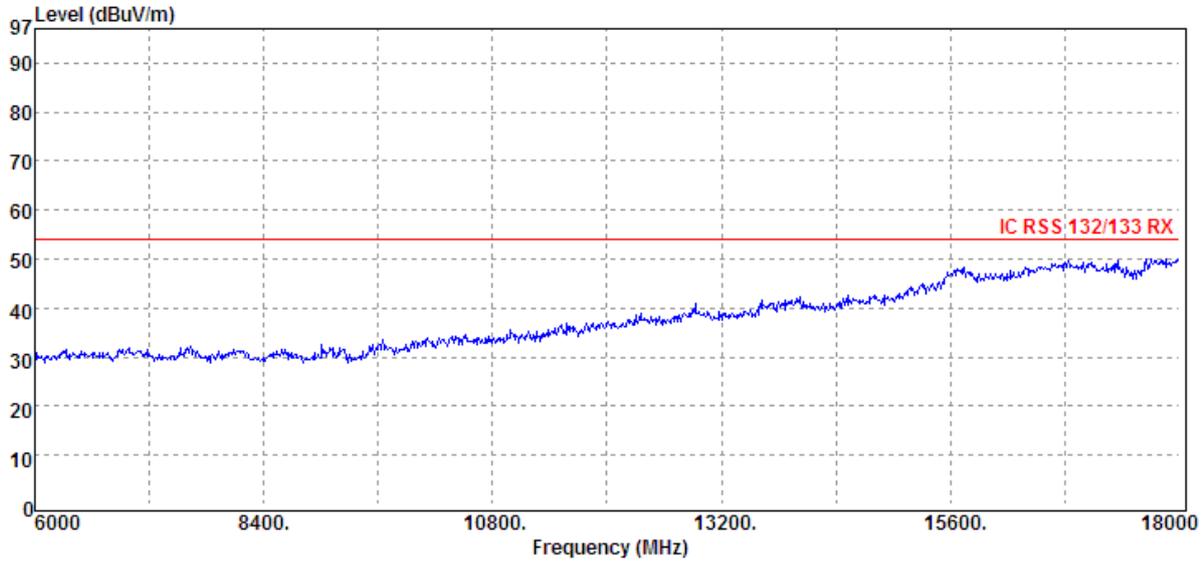
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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2567.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B7	Test Date	:2014-02-28



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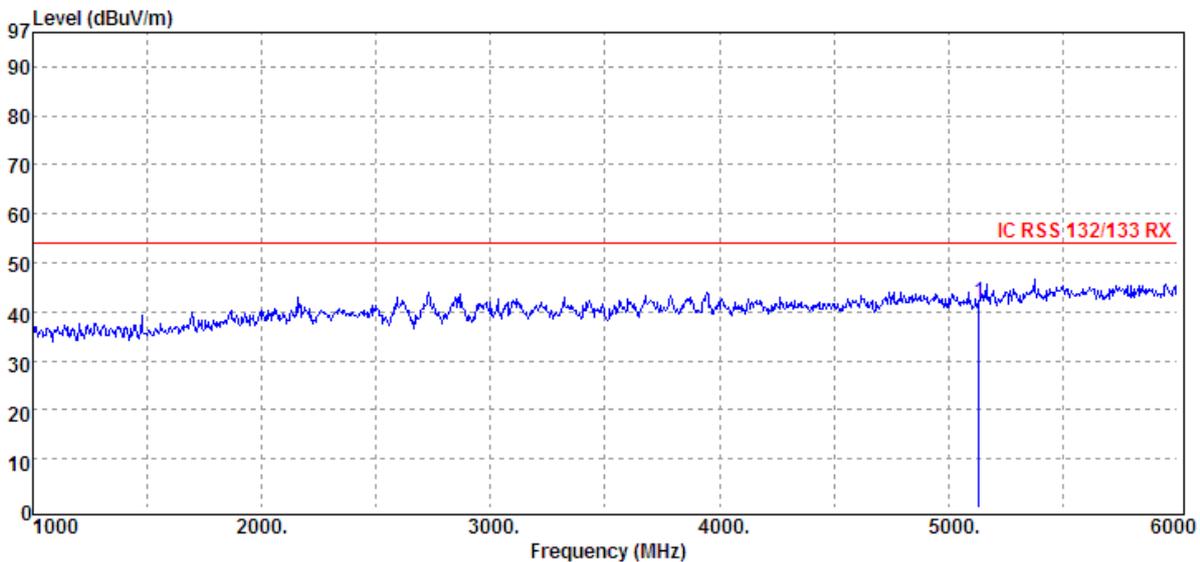
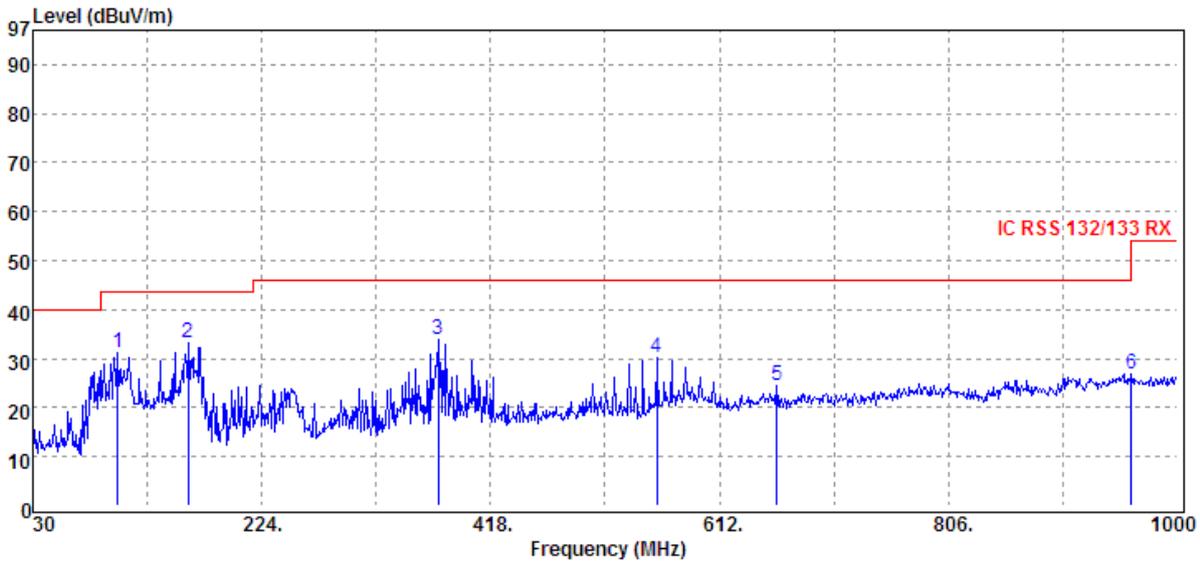
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Operation Band	:LTE B7	Test Date	:2014-02-28
Fundamental Frequency	:2567.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL
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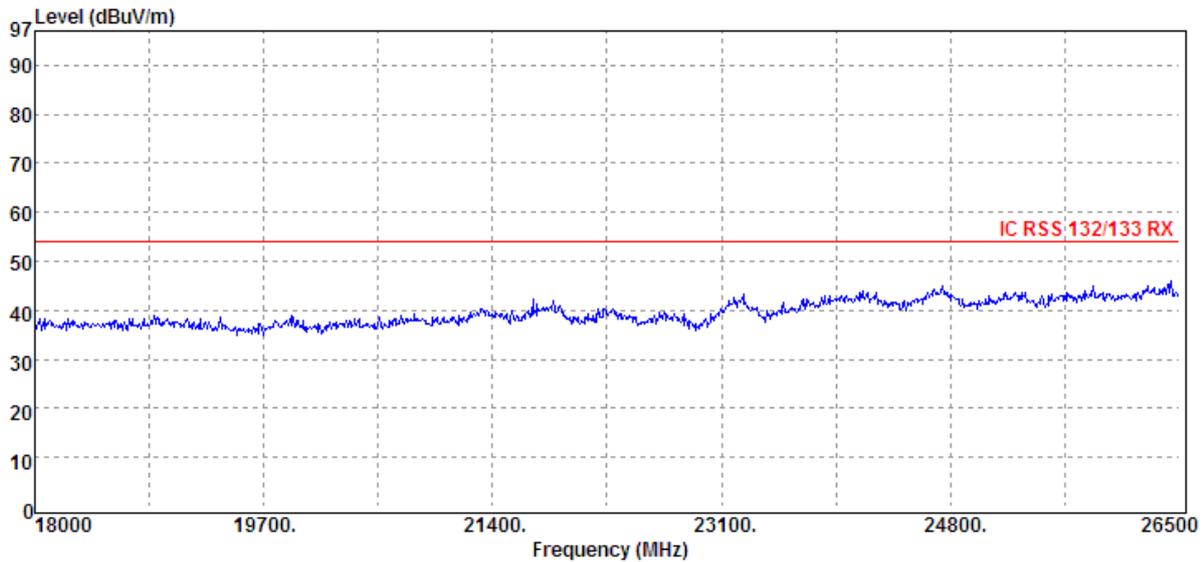
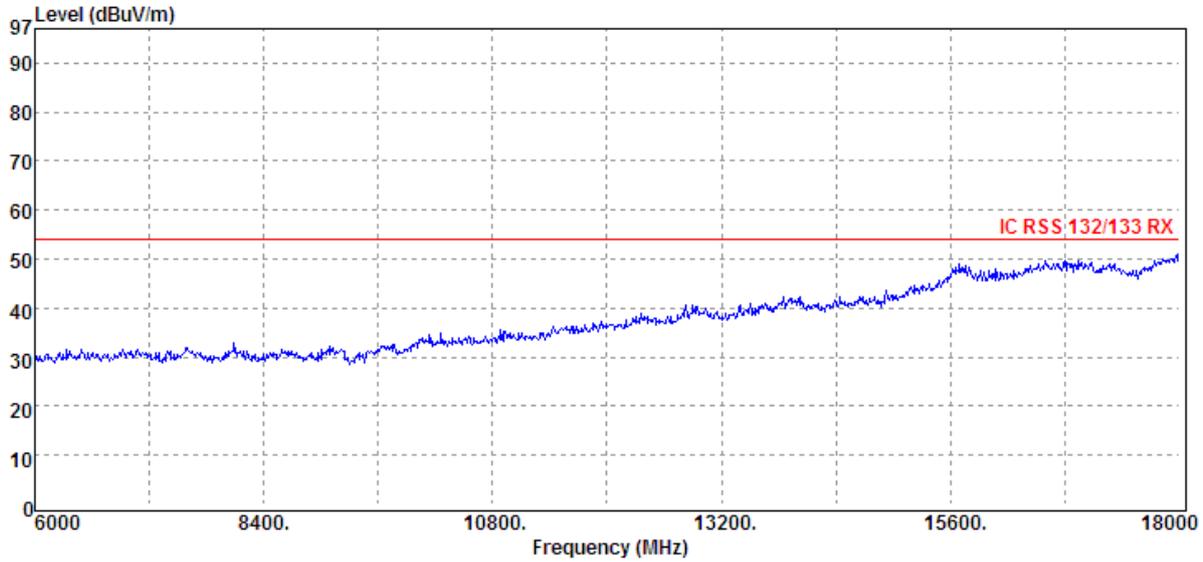
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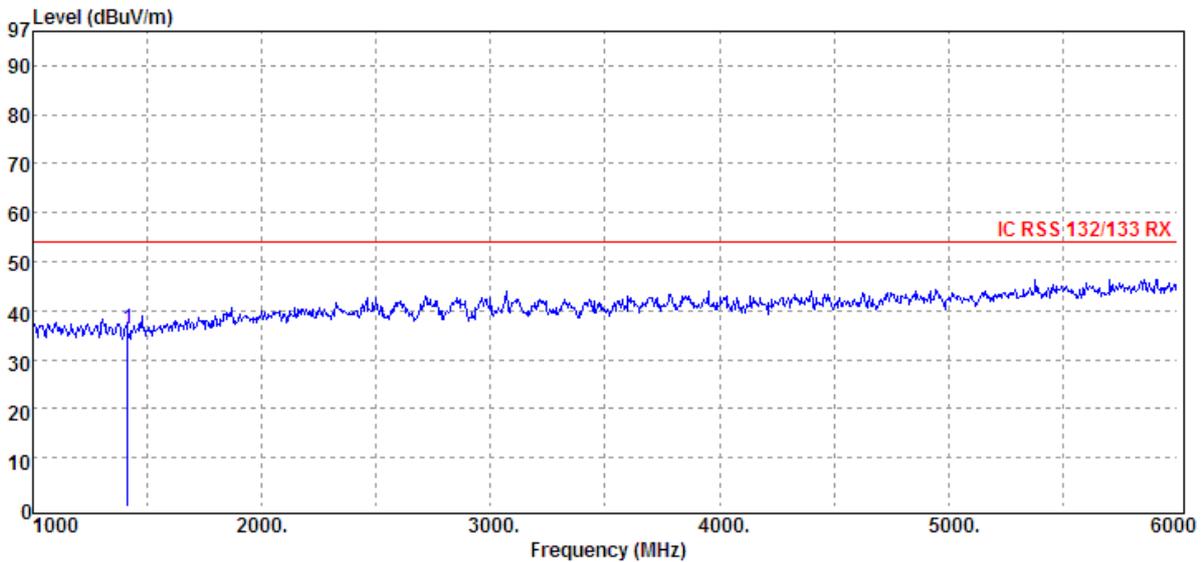
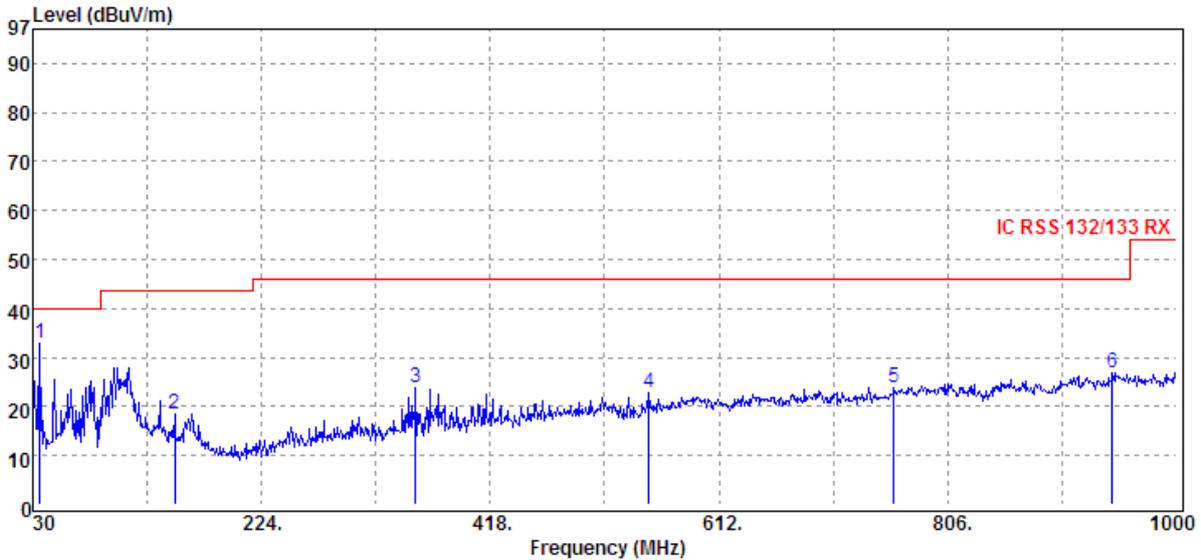
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**Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17 (Worst case)**

Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:706.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B17	Test Date	:2014-02-28



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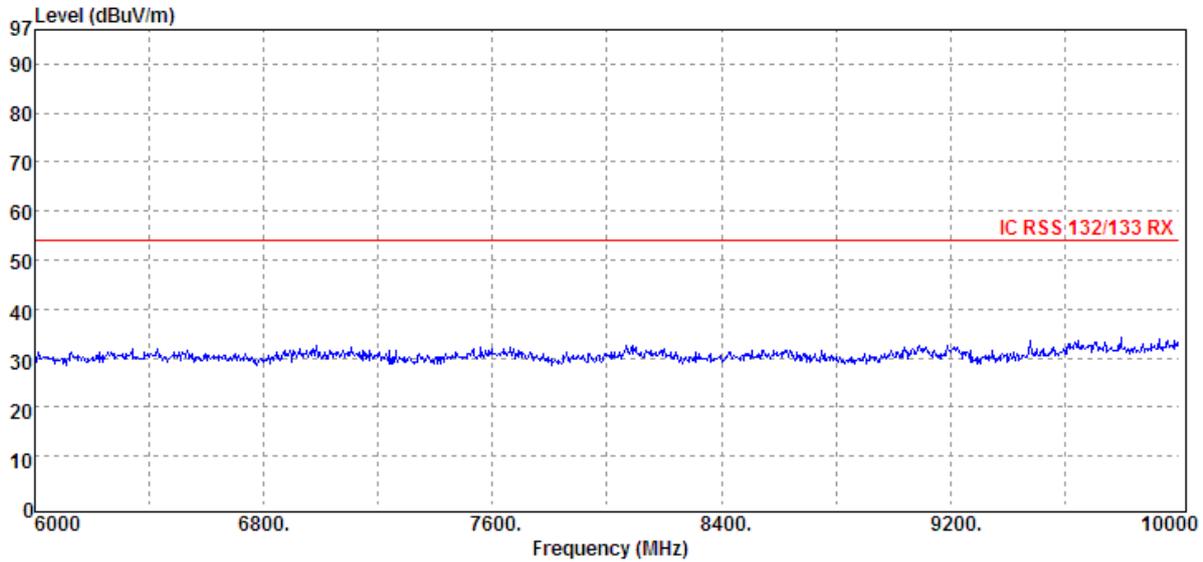
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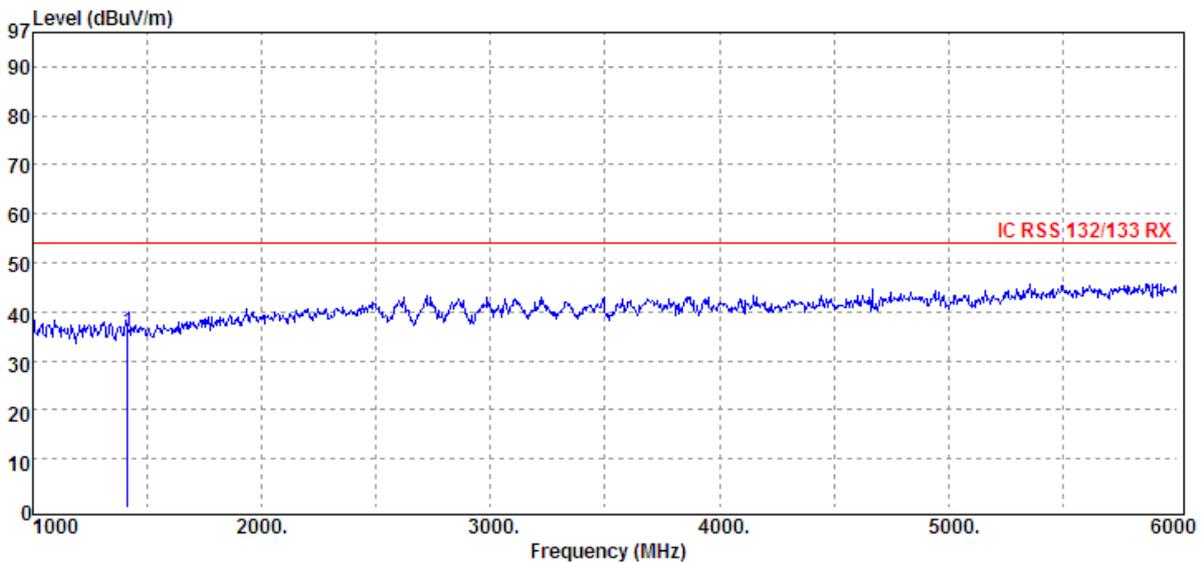
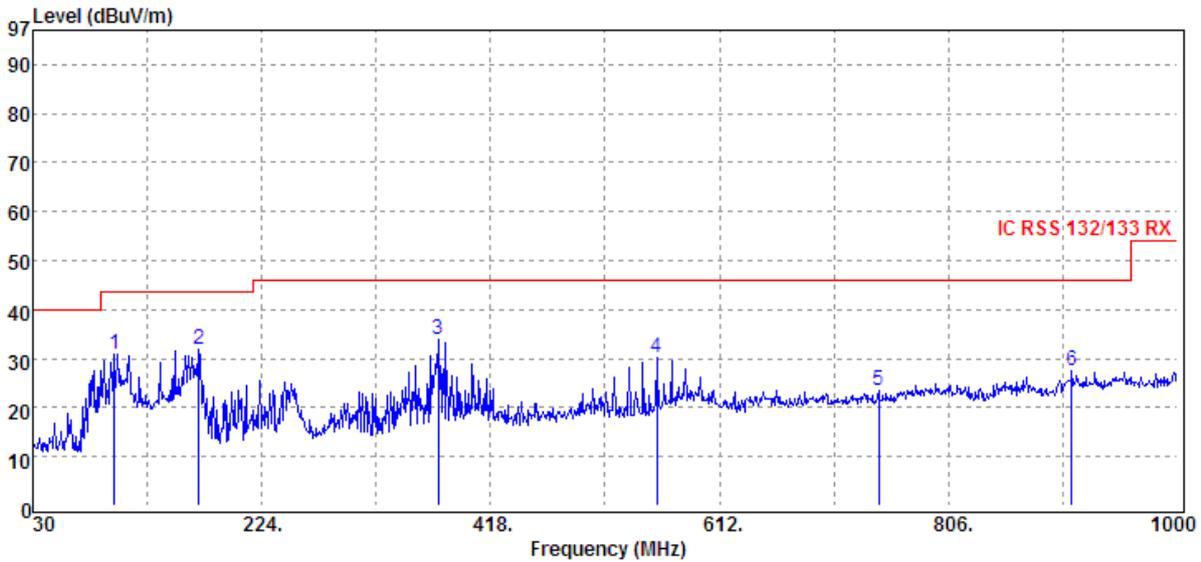
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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:706.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX LOW	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL
Operation Band	:LTE B17	Test Date	:2014-02-28



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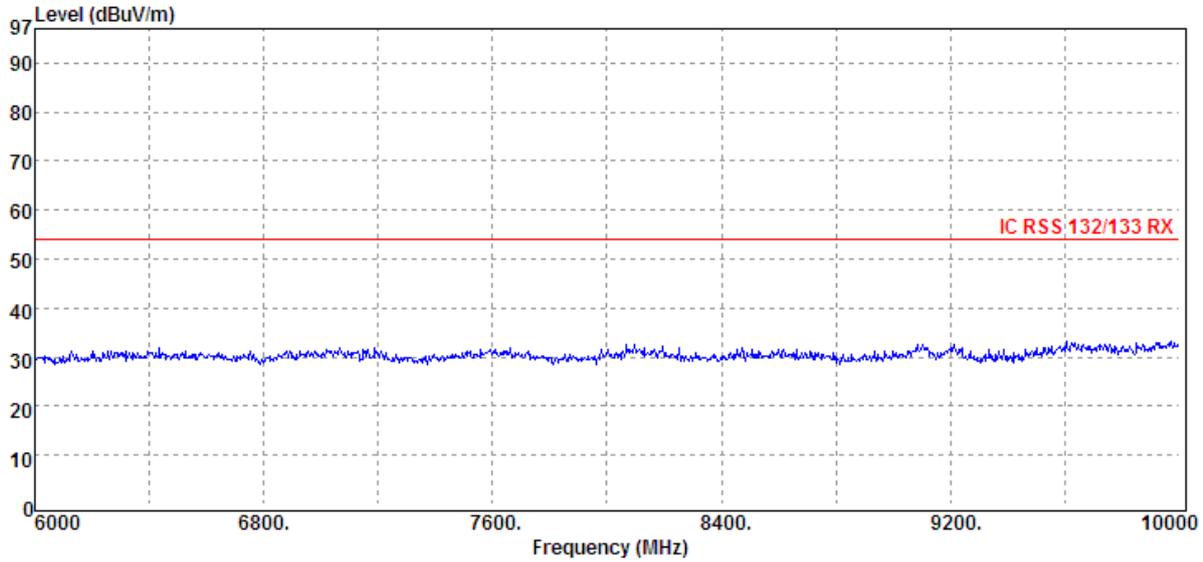
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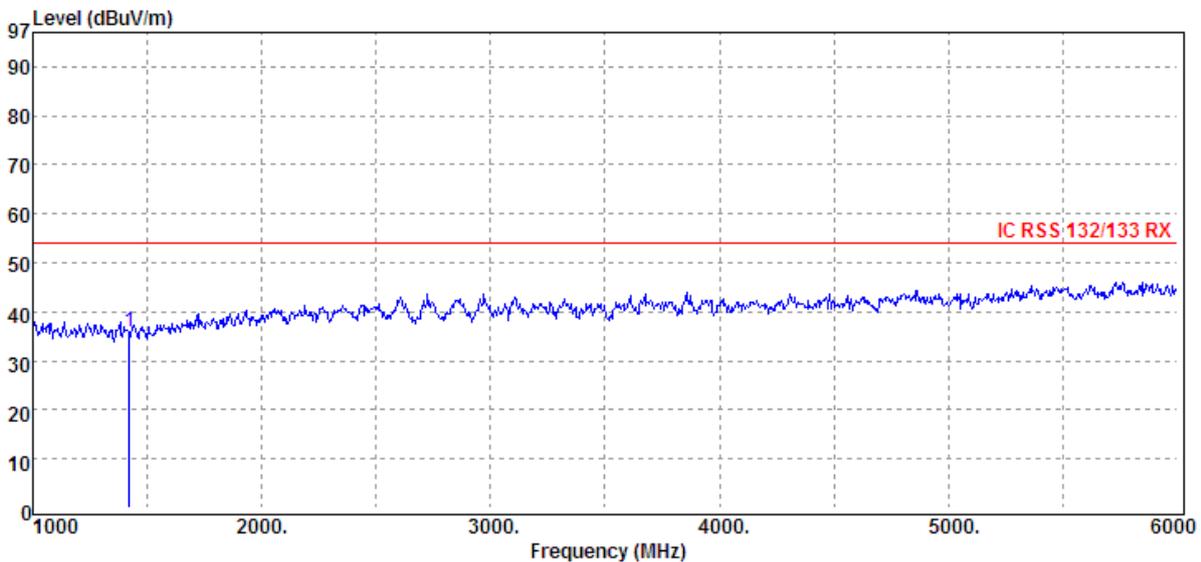
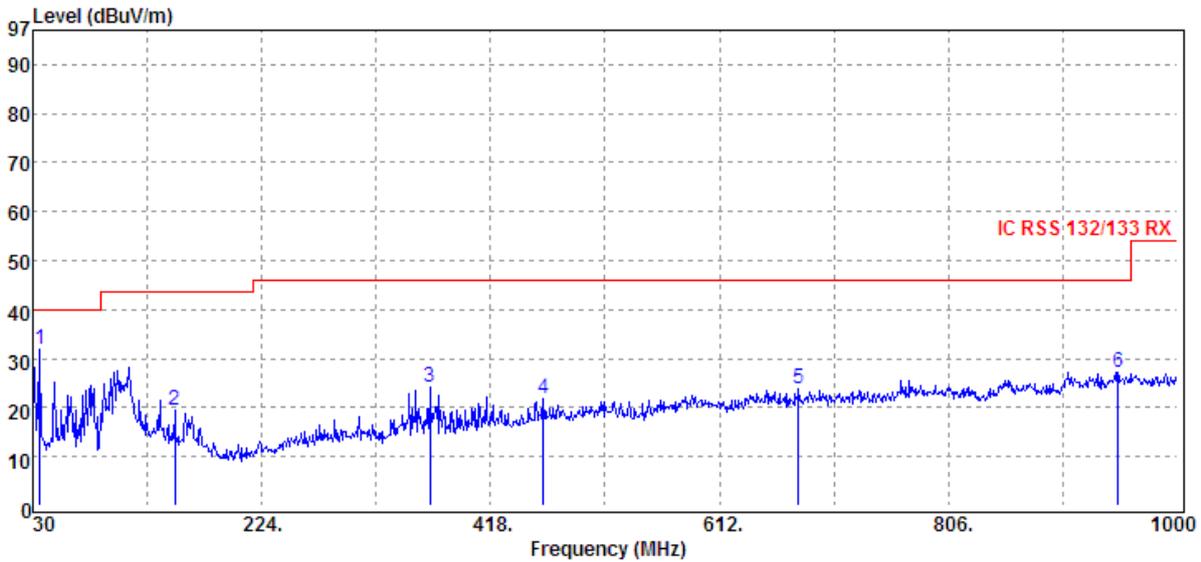
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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:710 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B17	Test Date	:2014-02-28



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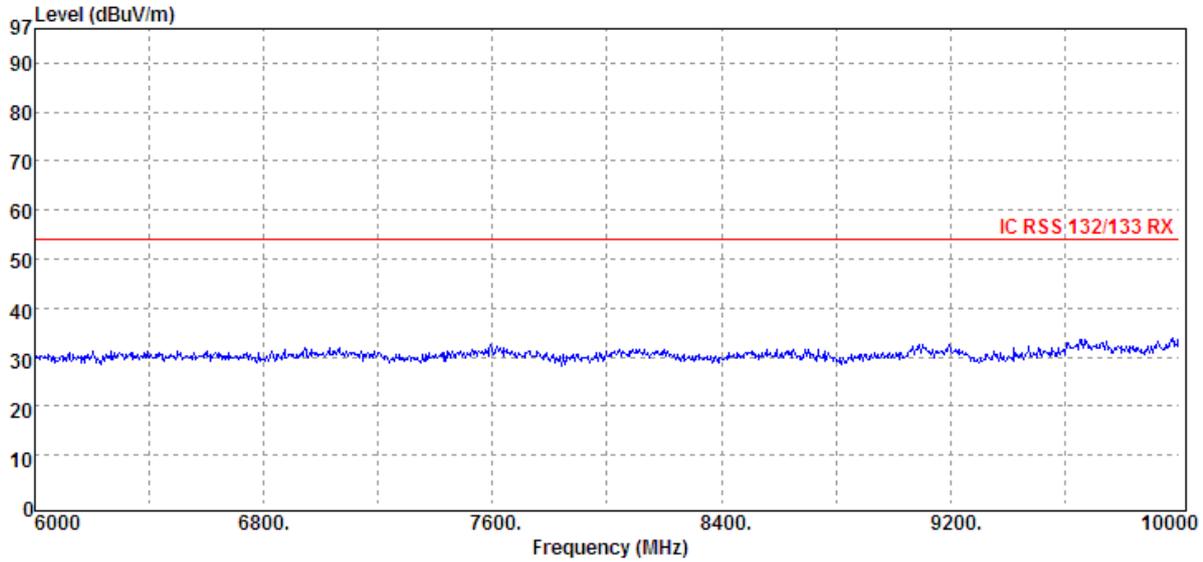
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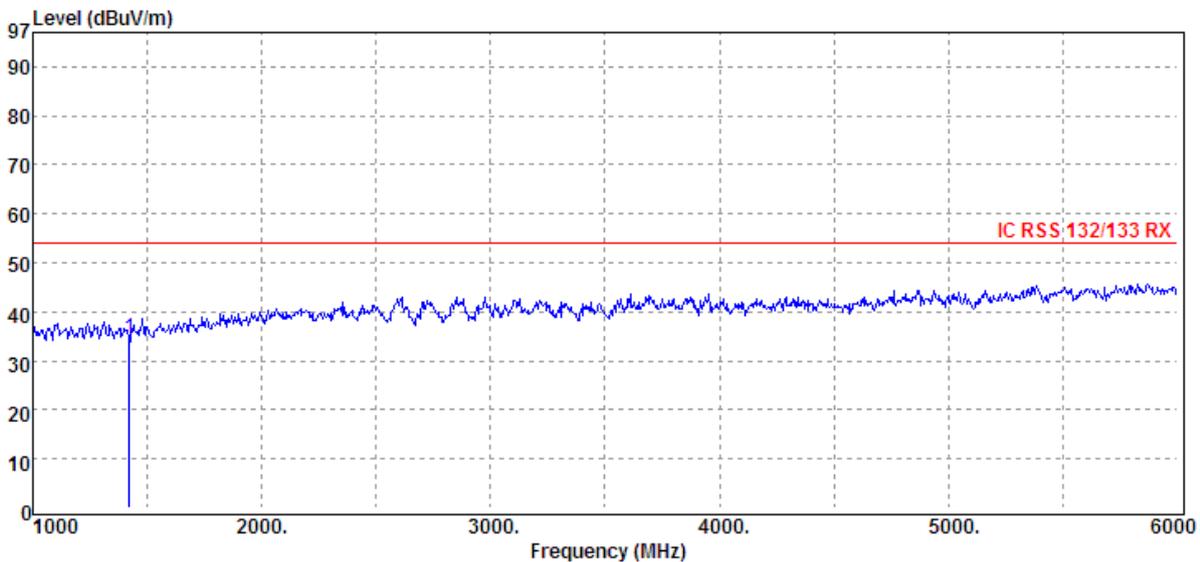
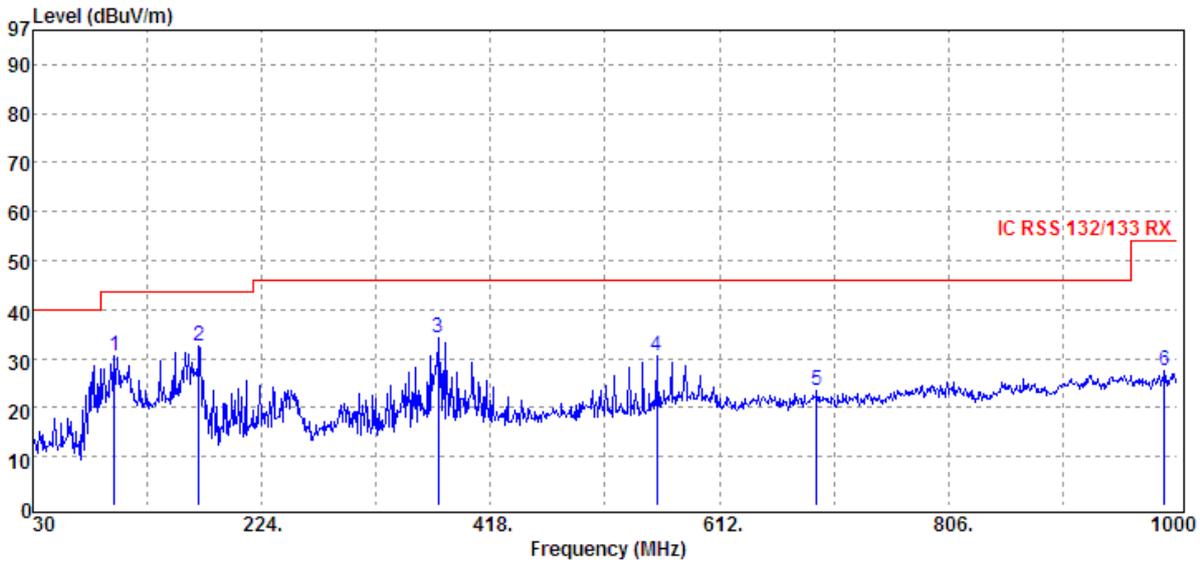
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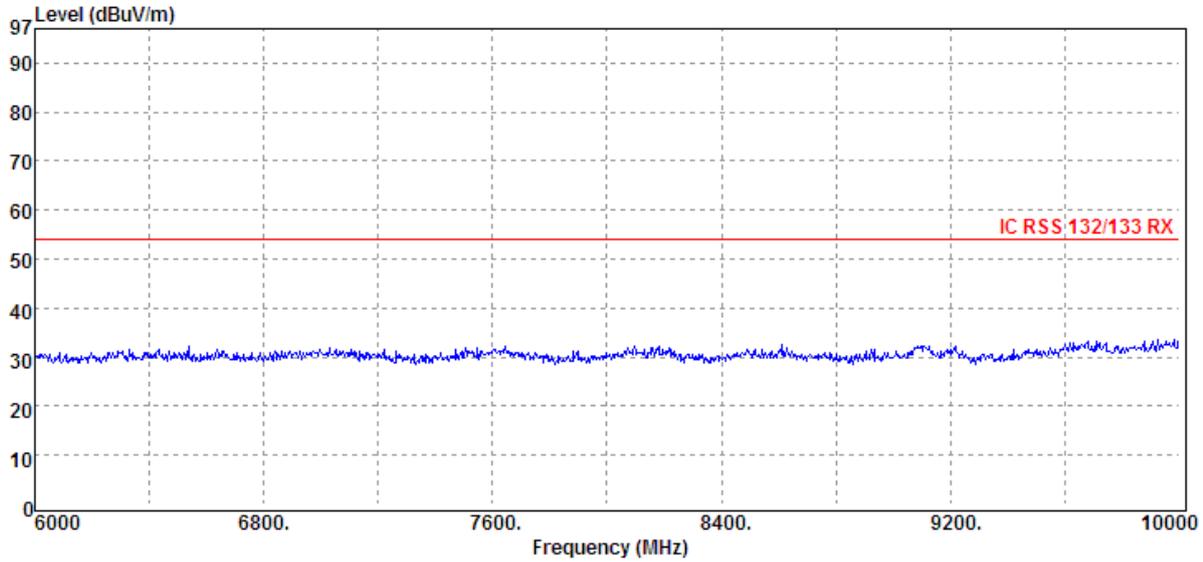
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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:710 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX MID	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL
Operation Band	:LTE B17	Test Date	:2014-02-28



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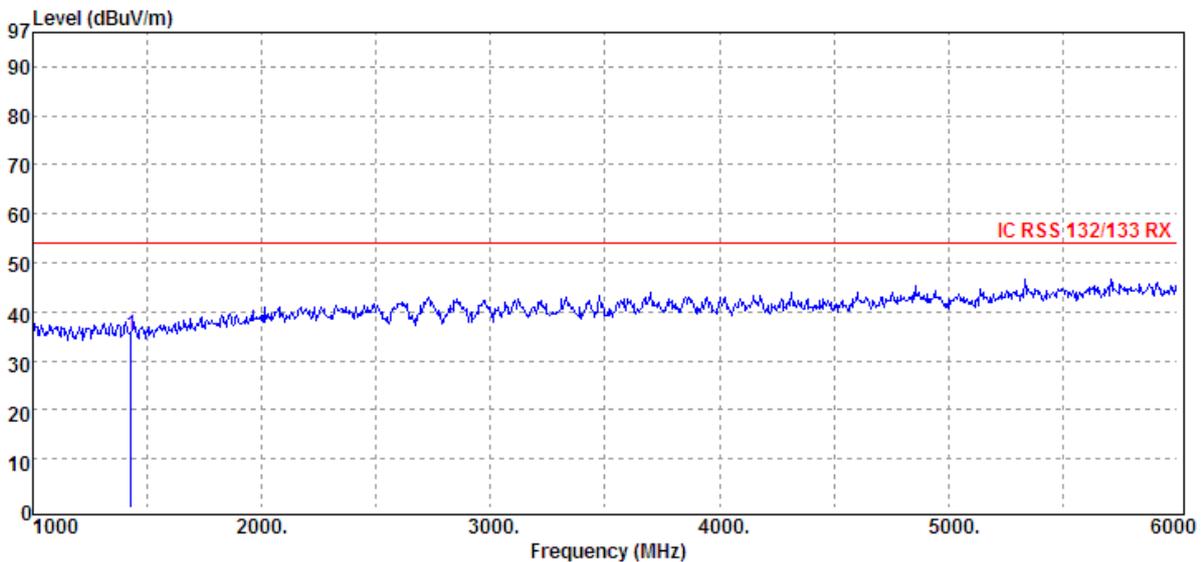
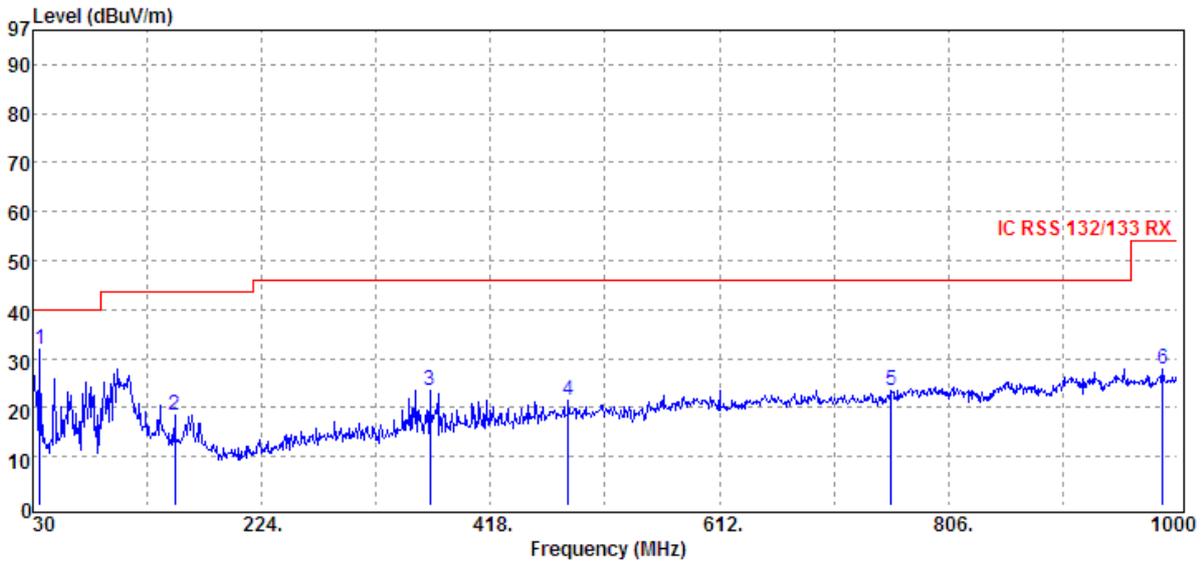
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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:713.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:VERTICAL
Operation Band	:LTE B17	Test Date	:2014-02-28



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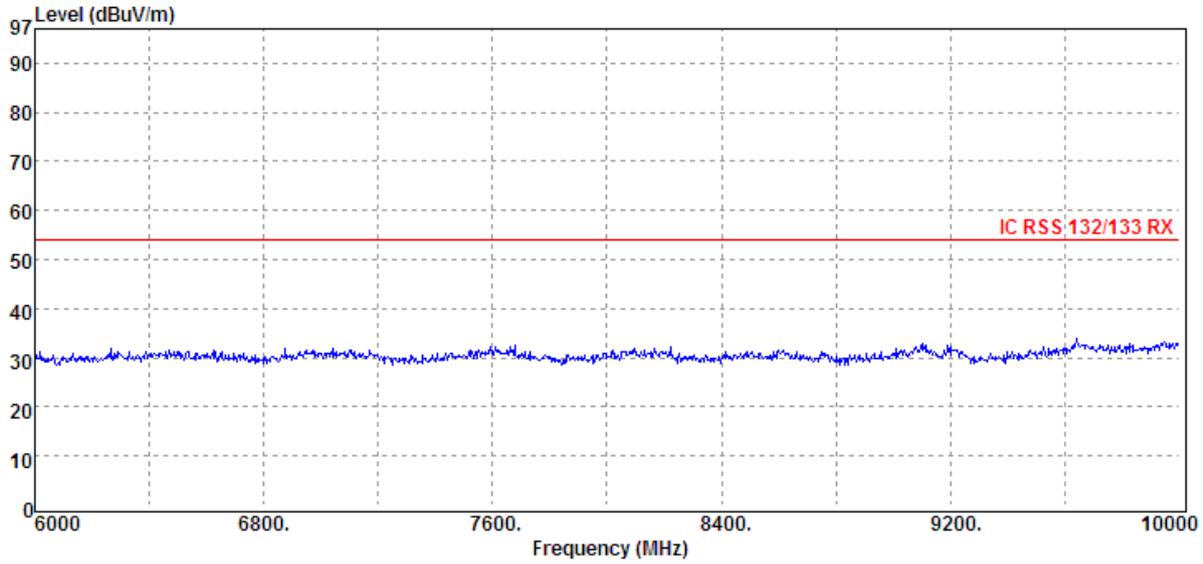
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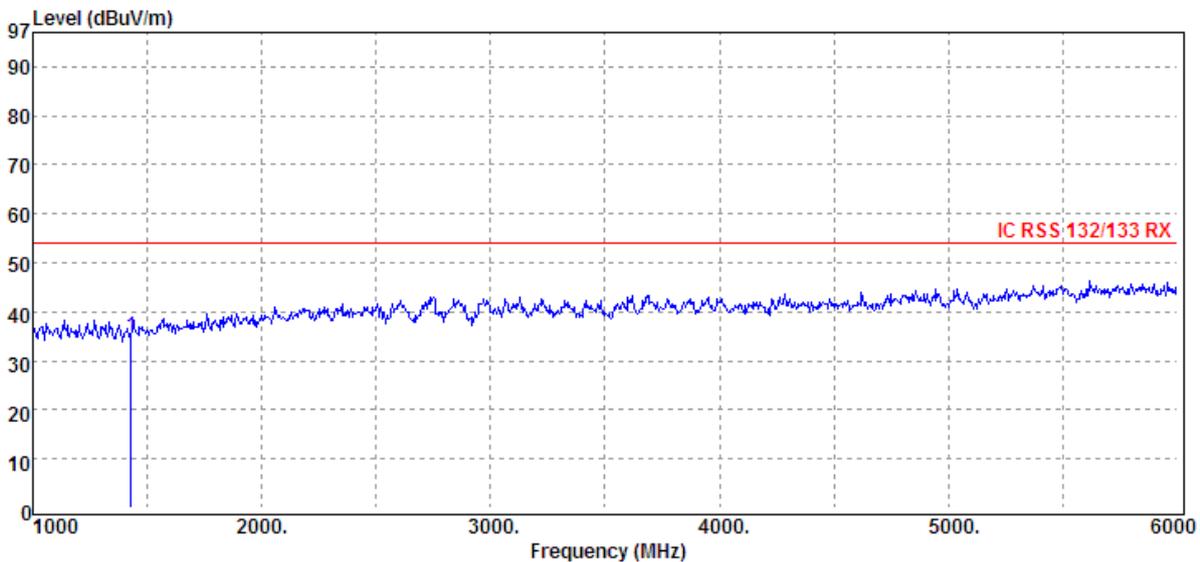
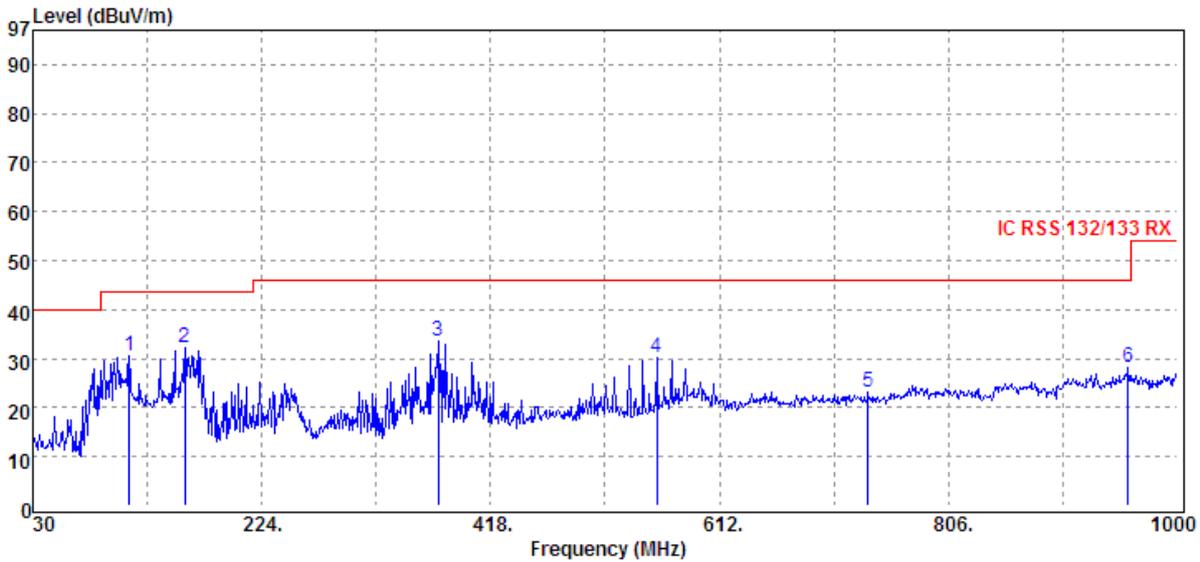
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Operation Band	:LTE B17	Test Date	:2014-02-28
Fundamental Frequency	:713.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:RX HIGH	Engineer	:Allen
EUT Pol.	:E1 Plane	Measurement Antenna Pol.	:HORIZONTAL
Operation Band	:LTE B17	Test Date	:2014-02-28



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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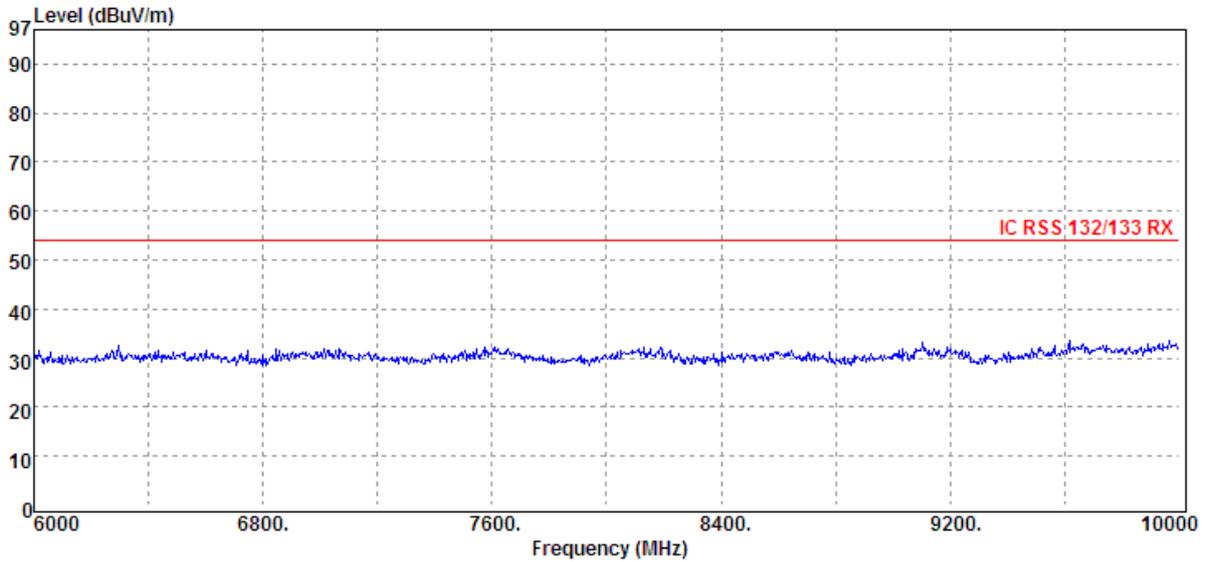
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~END OF PART II~

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