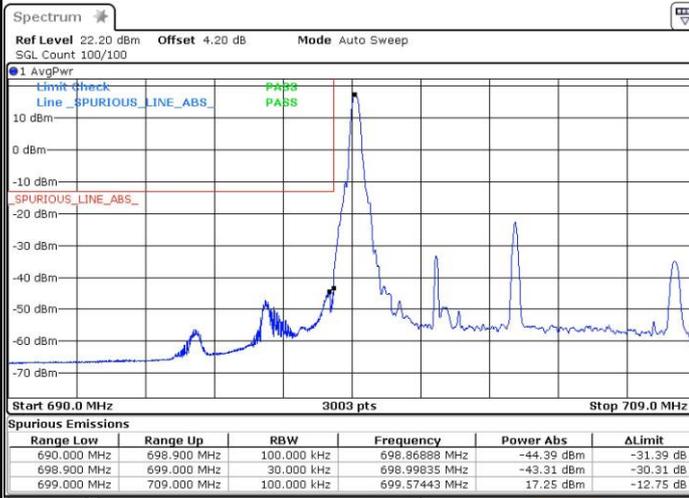




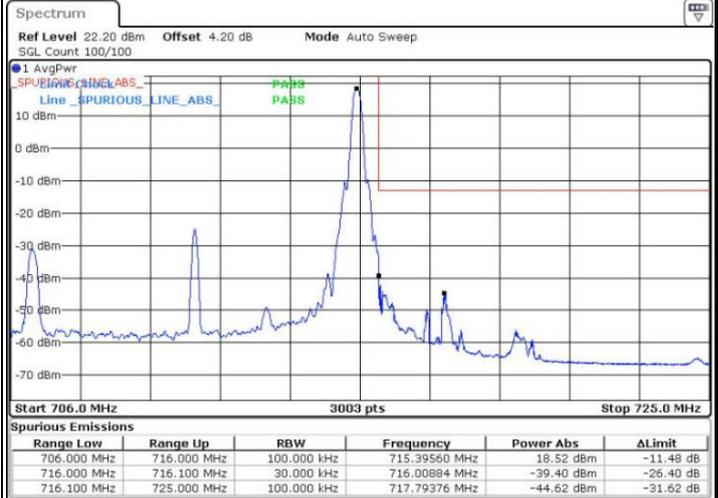
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



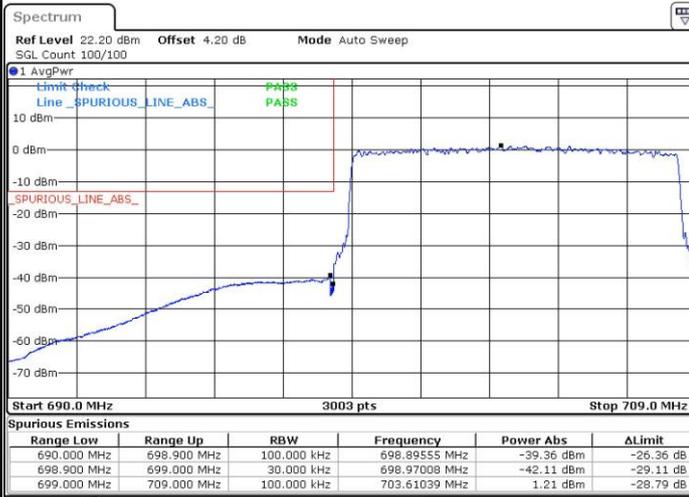
Date: 19 JAN 2016 23:40:45

Highest Band Edge / 1 RB



Date: 19 JAN 2016 23:22:40

Lowest Band Edge / Full RB



Date: 19 JAN 2016 23:16:37

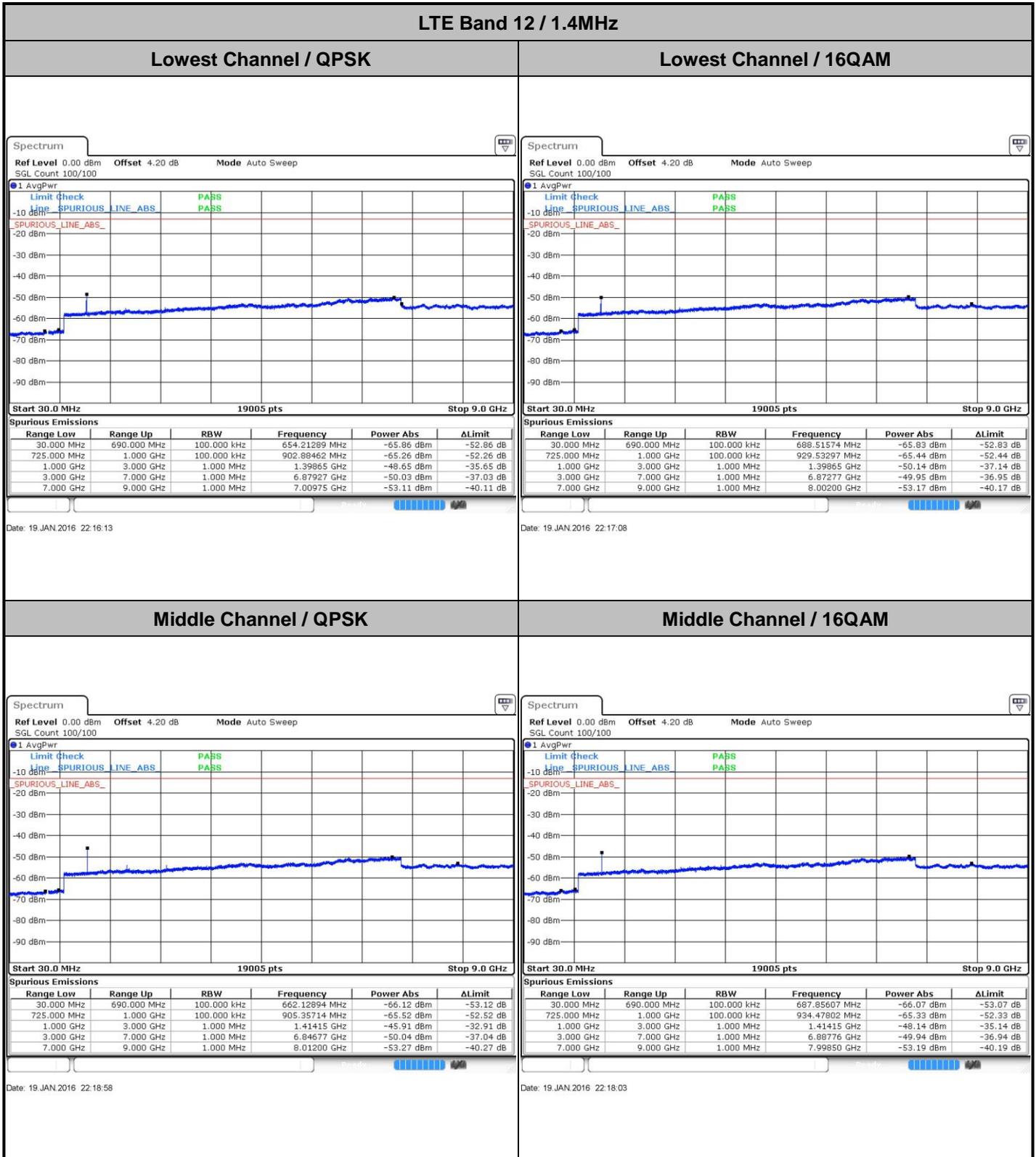
Highest Band Edge / Full RB



Date: 19 JAN 2016 23:24:42



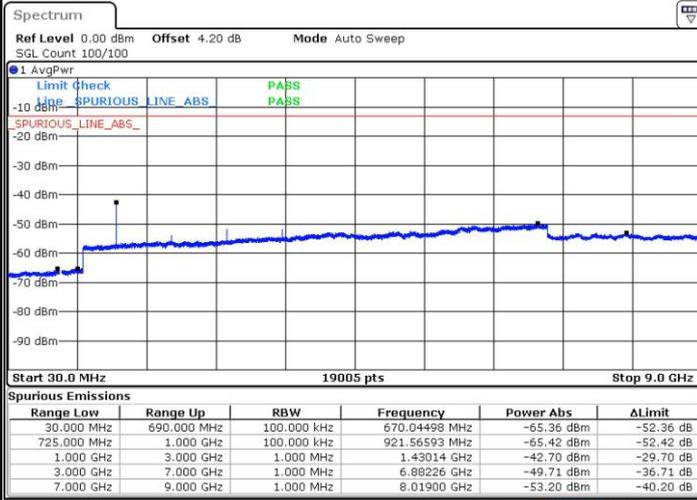
# Conducted Spurious Emission





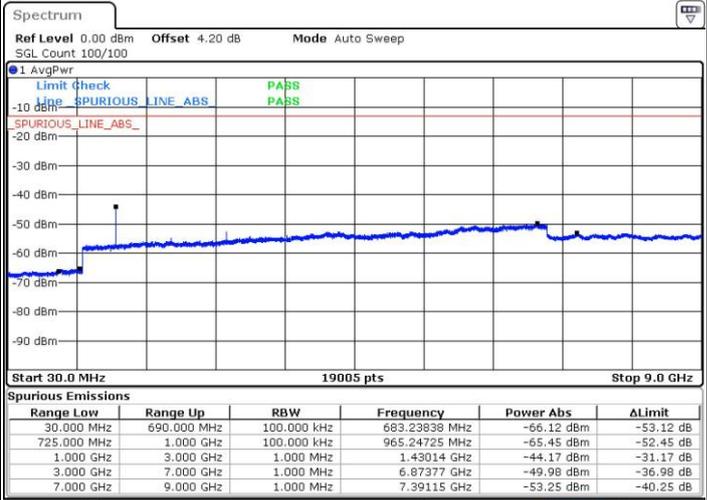
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 19 JAN 2016 22:19:53

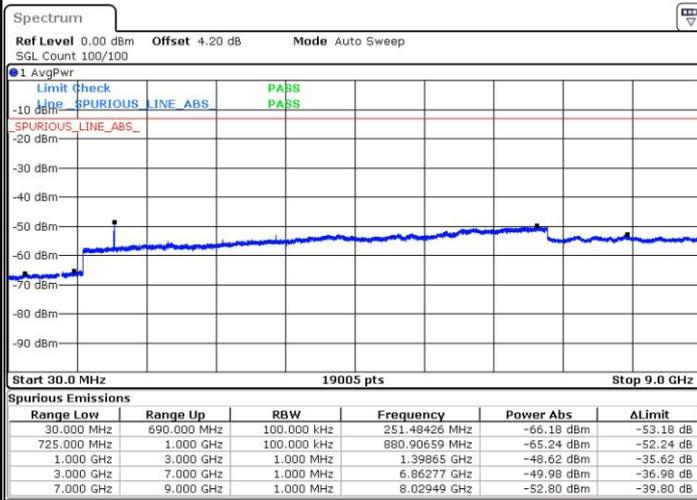
Highest Channel / 16QAM



Date: 19 JAN 2016 22:20:48

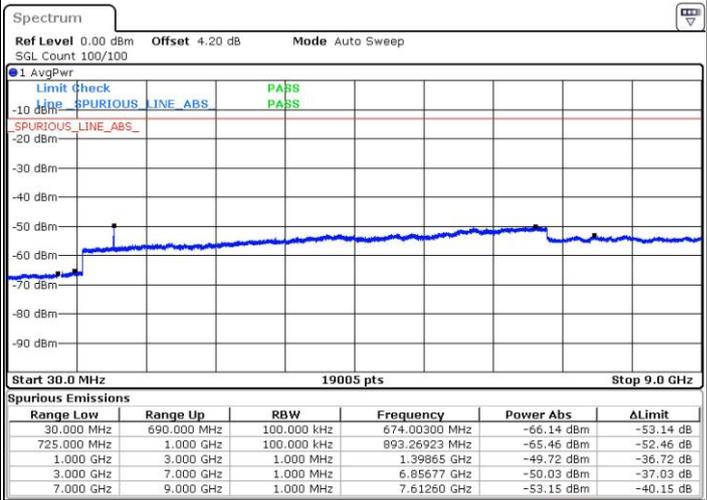
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 19 JAN 2016 22:40:01

Lowest Channel / 16QAM



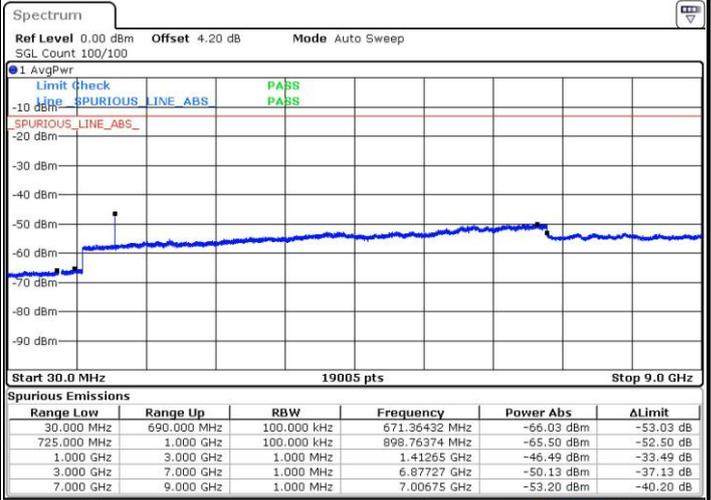
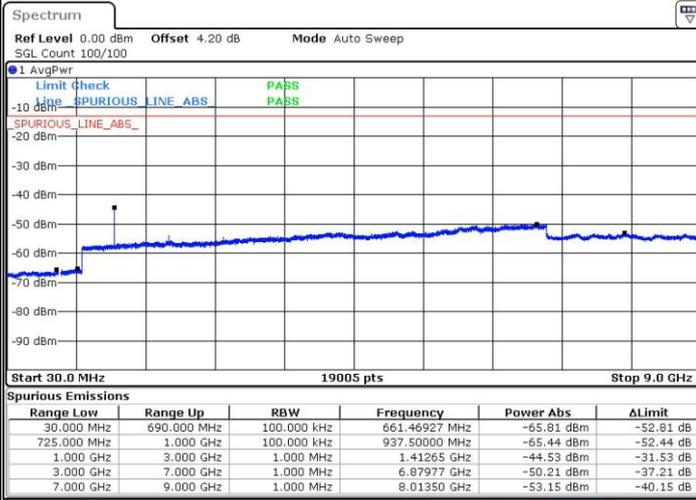
Date: 19 JAN 2016 22:40:56



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

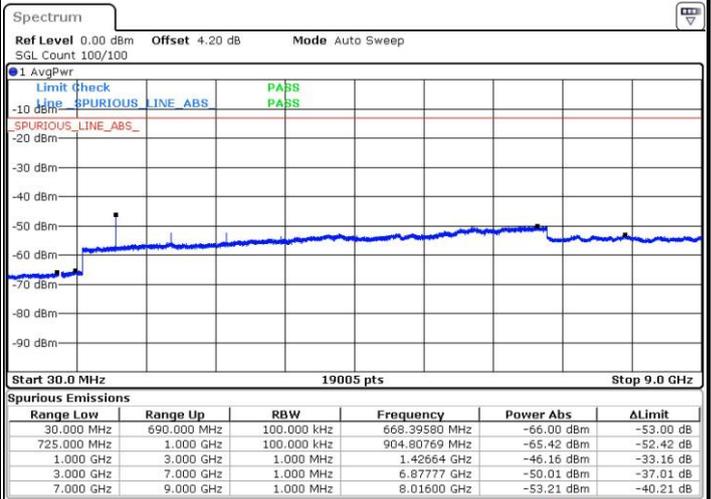
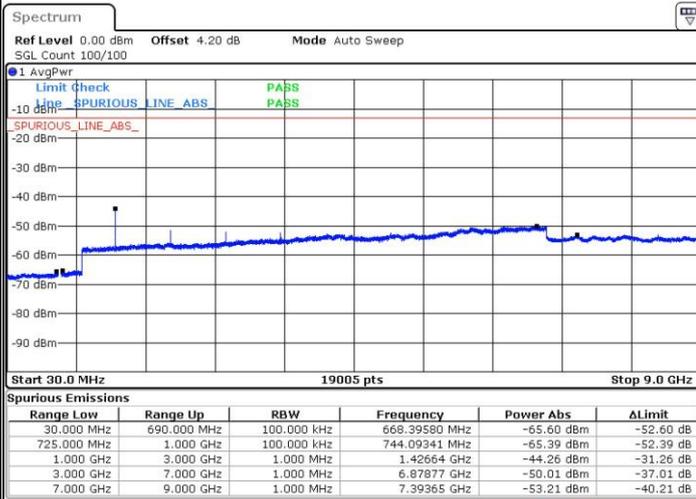


Date: 19 JAN 2016 22:42:46

Date: 19 JAN 2016 22:41:51

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19 JAN 2016 22:43:41

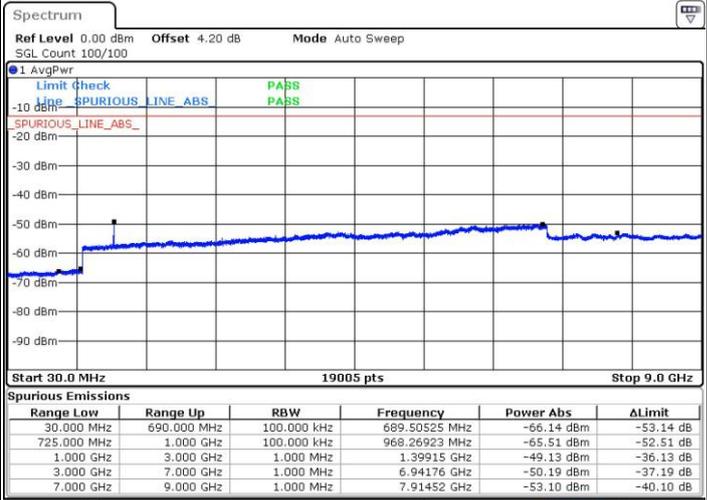
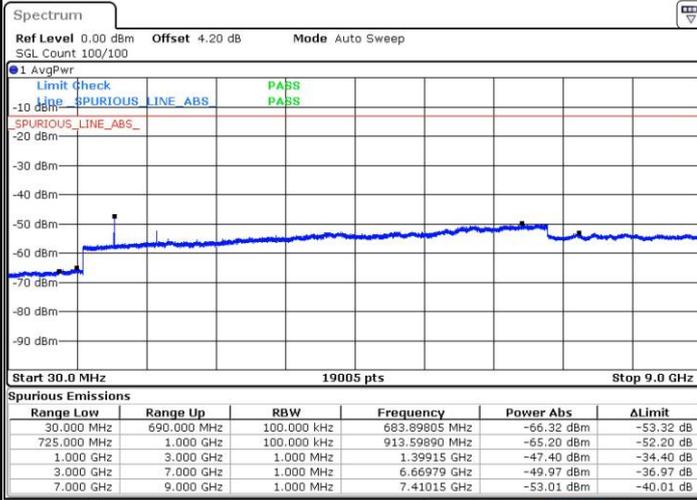
Date: 19 JAN 2016 22:44:37



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

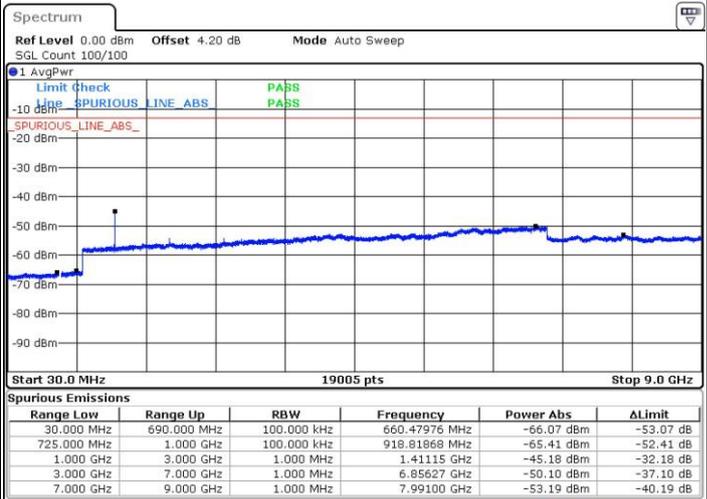
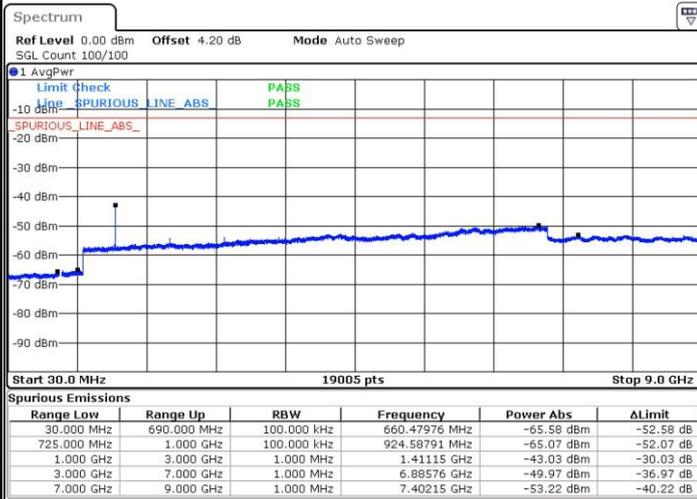


Date: 19 JAN 2016 23:03:49

Date: 19 JAN 2016 23:04:44

Middle Channel / QPSK

Middle Channel / 16QAM



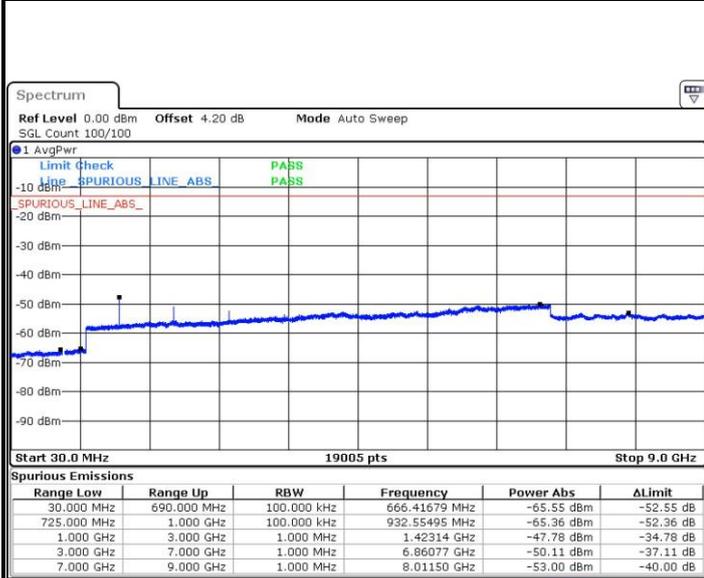
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Date: 19 JAN 2016 23:05:39



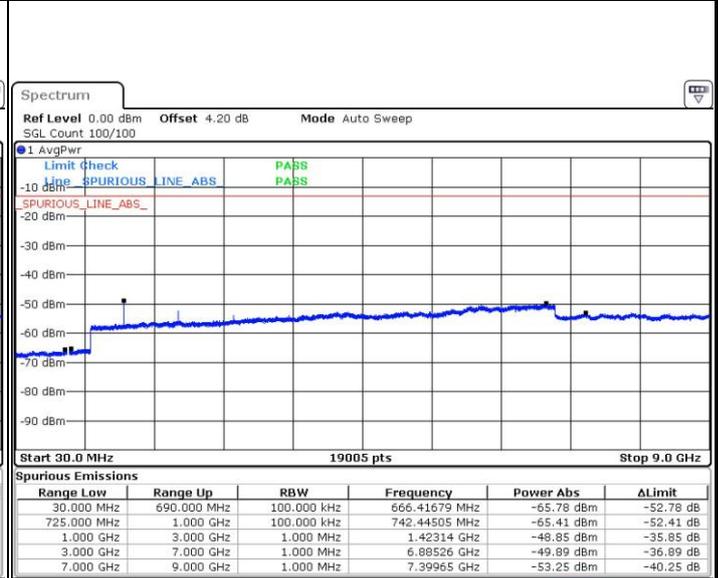
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 19 JAN 2016 23:07:29

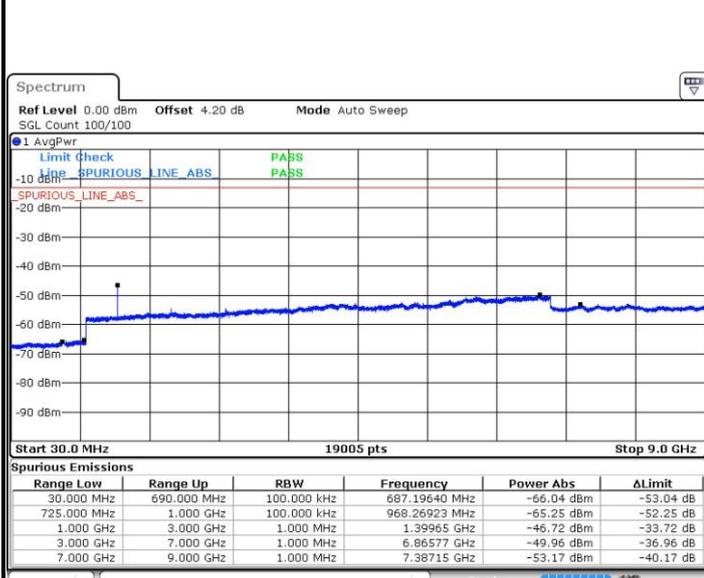
Highest Channel / 16QAM



Date: 19 JAN 2016 23:08:24

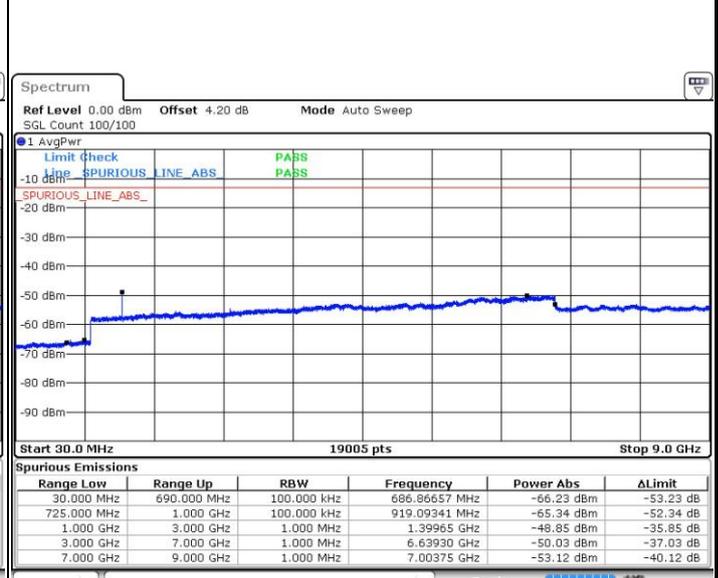
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 19 JAN 2016 23:27:37

Lowest Channel / 16QAM



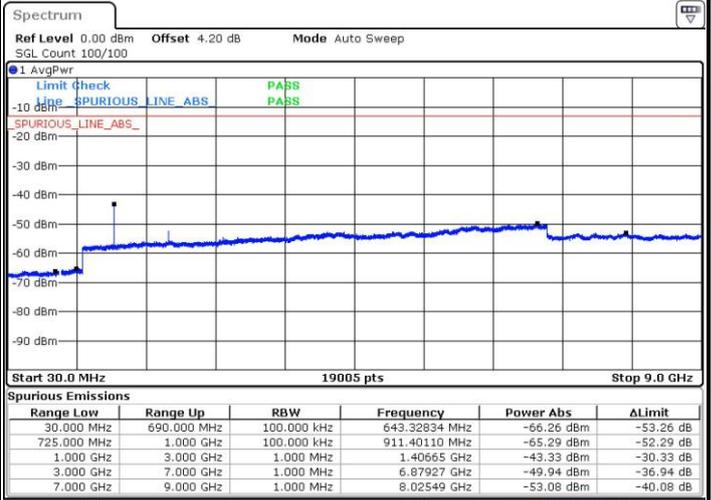
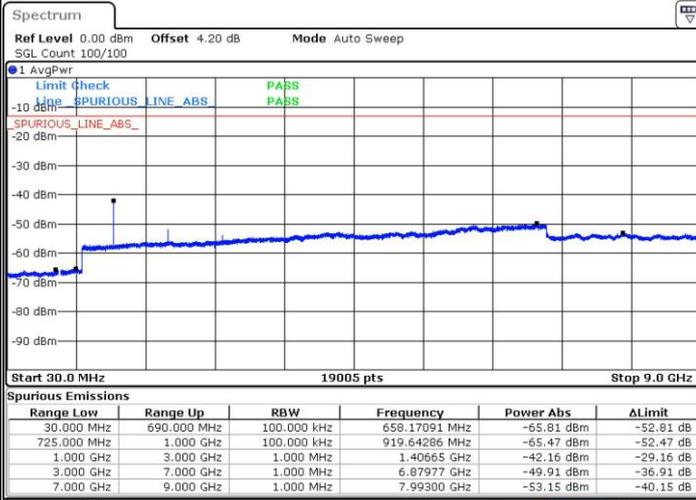
Date: 19 JAN 2016 23:28:32



LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

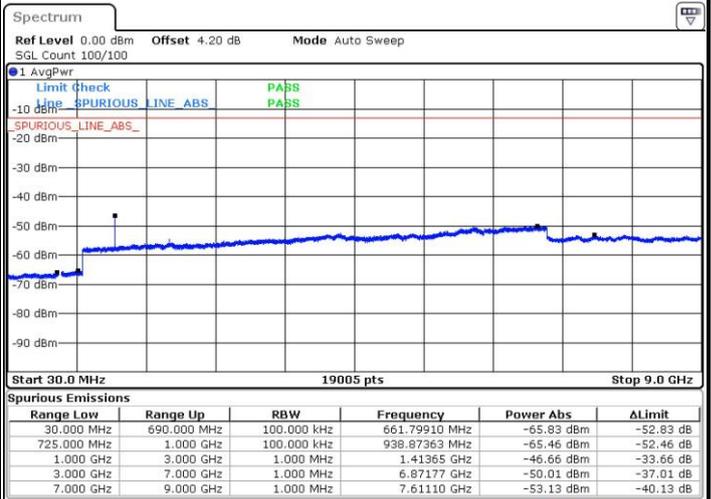
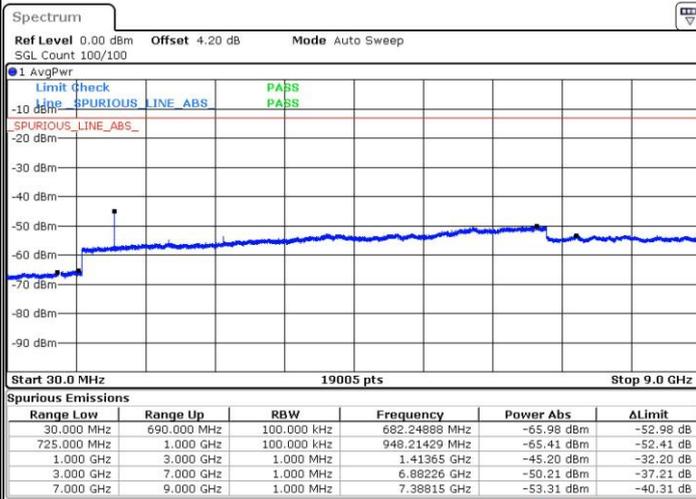


Date: 19 JAN 2016 23:30:22

Date: 19 JAN 2016 23:29:27

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 19 JAN 2016 23:31:17

Date: 19 JAN 2016 23:32:13



### Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0075	
30	Normal Voltage	0.0082	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0095	
0	Normal Voltage	0.0117	
-10	Normal Voltage	0.0059	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0113	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0079	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## LTE Band 13

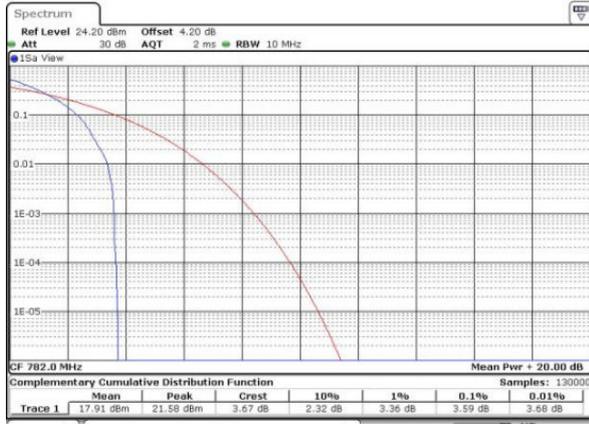
### Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.59	5.42	4.29	6.38	
Highest CH	-	-	-	-	



LTE Band 13 / 10MHz / QPSK

Middle Channel/ 1RB



Date: 20 JAN 2016 10:20:05

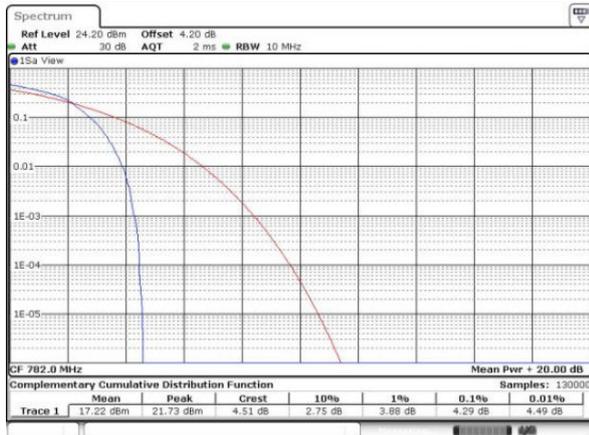
Middle Channel / Full RB



Date: 20 JAN 2016 10:20:37

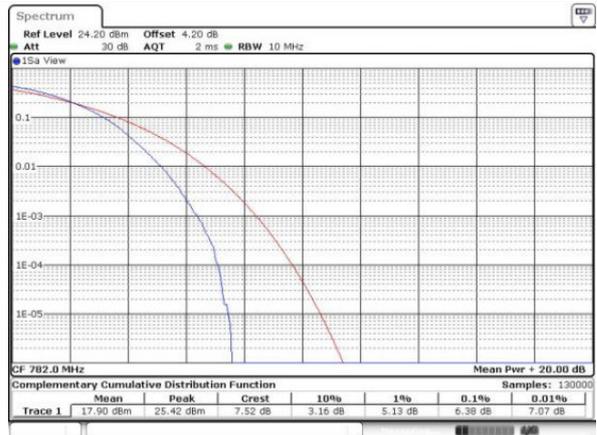
LTE Band 13 / 10MHz / 16QAM

Middle Channel/ 1RB



Date: 20 JAN 2016 10:20:16

Middle Channel / Full RB



Date: 20 JAN 2016 10:20:26



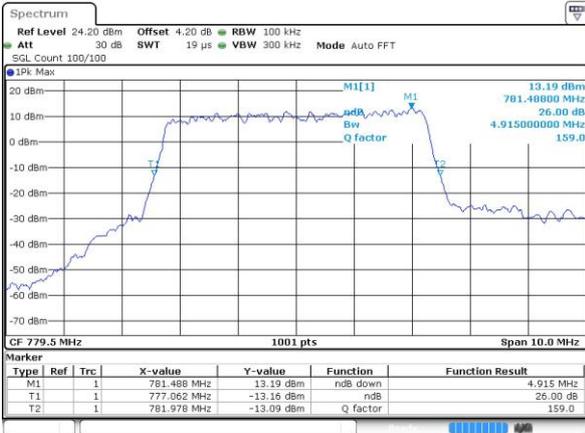
**26dB Bandwidth**

Mode	LTE Band 13 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.92	4.89	-	-	-	-	-	-
Middle CH	-	-	-	-	4.90	4.89	9.87	9.77	-	-	-	-
Highest CH	-	-	-	-	5.01	4.98	-	-	-	-	-	-



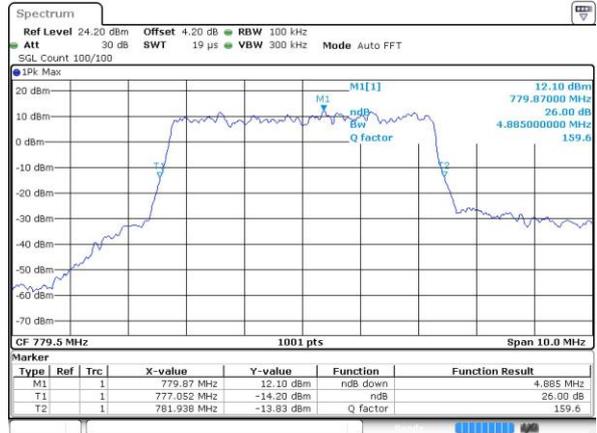
LTE Band 13

Lowest Channel / 5MHz / QPSK



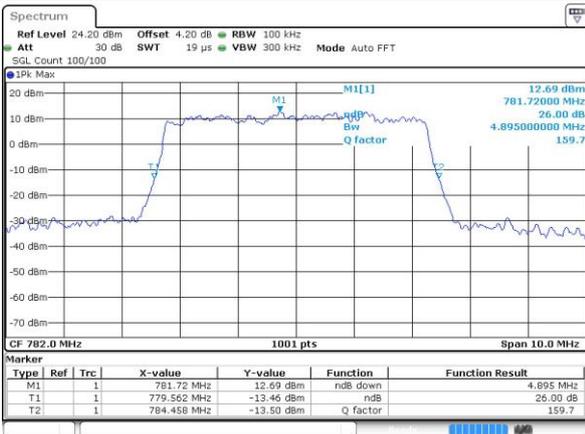
Date: 20 JAN 2016 10:09:53

Lowest Channel / 5MHz / 16QAM



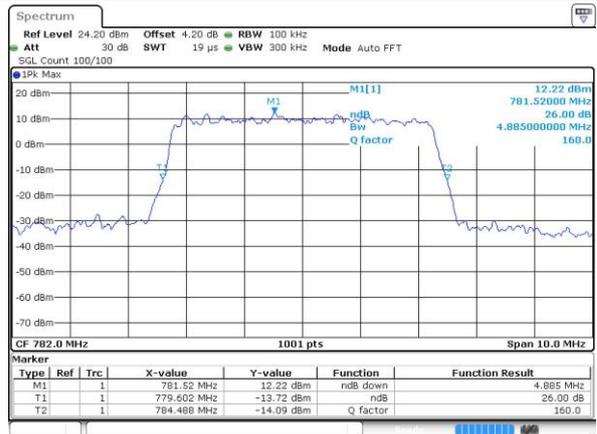
Date: 20 JAN 2016 10:10:04

Middle Channel / 5MHz / QPSK



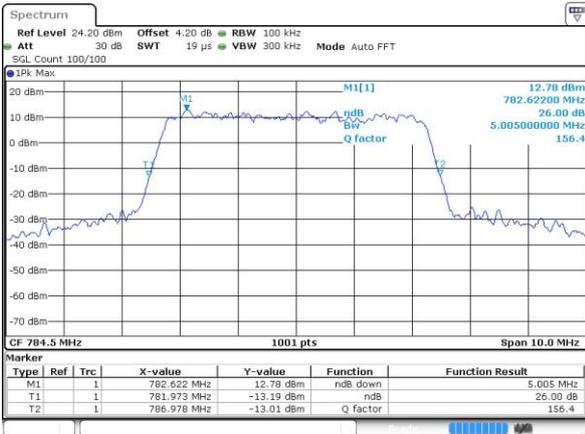
Date: 20 JAN 2016 10:12:25

Middle Channel / 5MHz / 16QAM



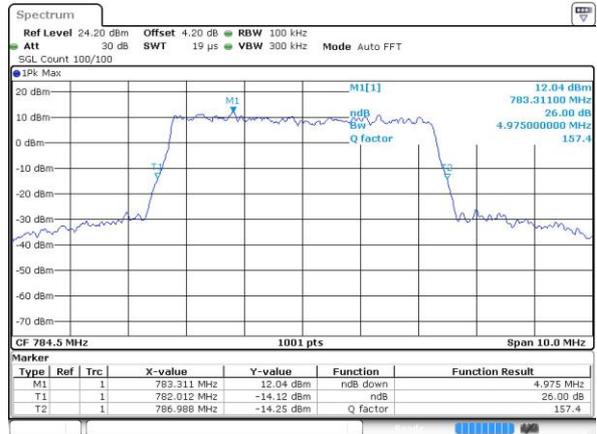
Date: 20 JAN 2016 10:12:36

Highest Channel / 5MHz / QPSK



Date: 20 JAN 2016 10:15:07

Highest Channel / 5MHz / 16QAM

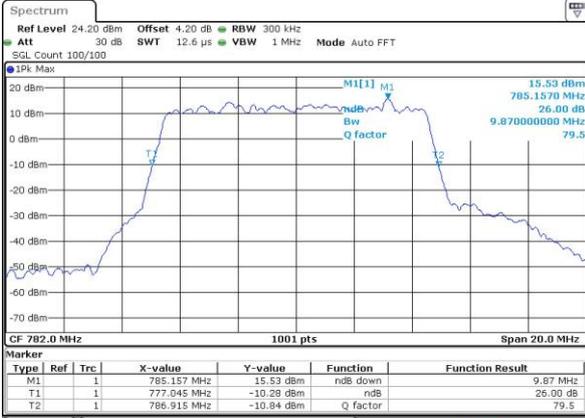


Date: 20 JAN 2016 10:14:57



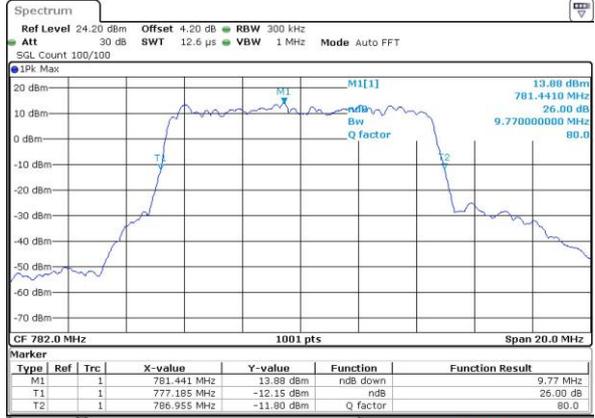
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 20 JAN 2016 10:19:28

Middle Channel / 10MHz / 16QAM



Date: 20 JAN 2016 10:19:18



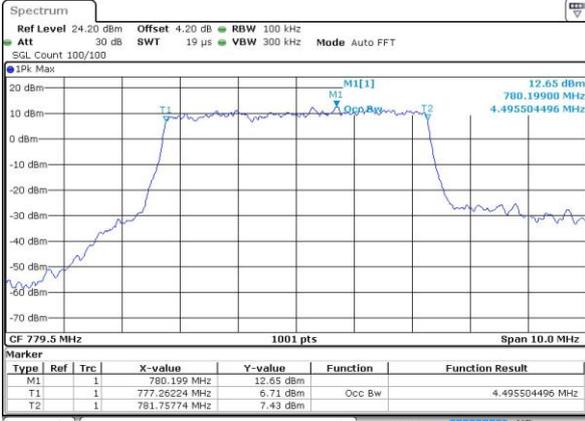
### Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.5	4.52	-	-	-	-	-	-
Middle CH	-	-	-	-	4.46	4.49	9.03	9.01	-	-	-	-
Highest CH	-	-	-	-	4.49	4.48	-	-	-	-	-	-



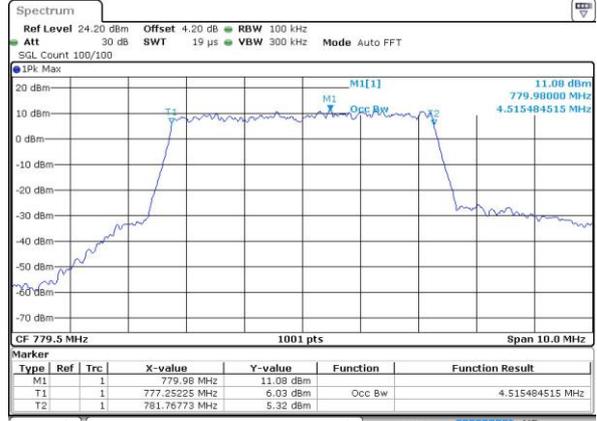
LTE Band 13

Lowest Channel / 5MHz / QPSK



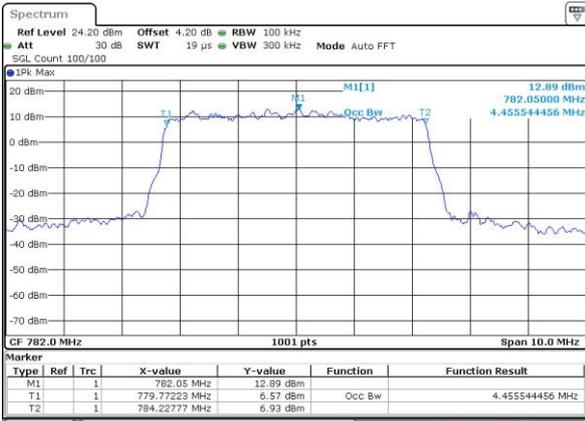
Date: 20 JAN 2016 10:10:25

Lowest Channel / 5MHz / 16QAM



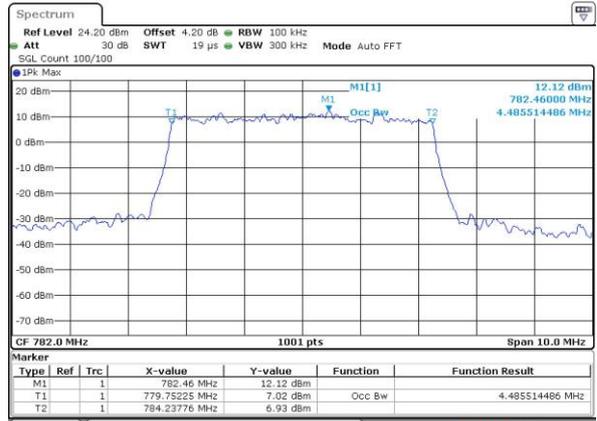
Date: 20 JAN 2016 10:10:15

Middle Channel / 5MHz / QPSK



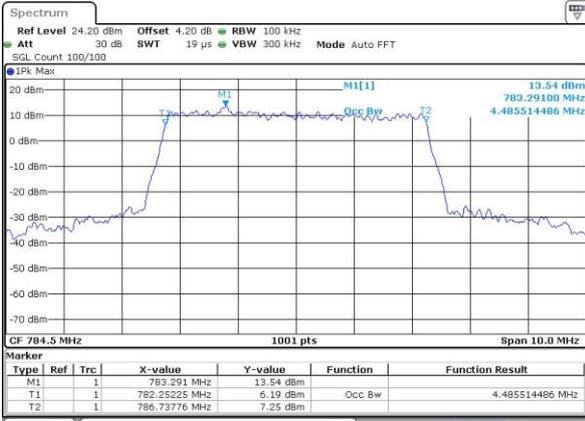
Date: 20 JAN 2016 10:12:48

Middle Channel / 5MHz / 16QAM



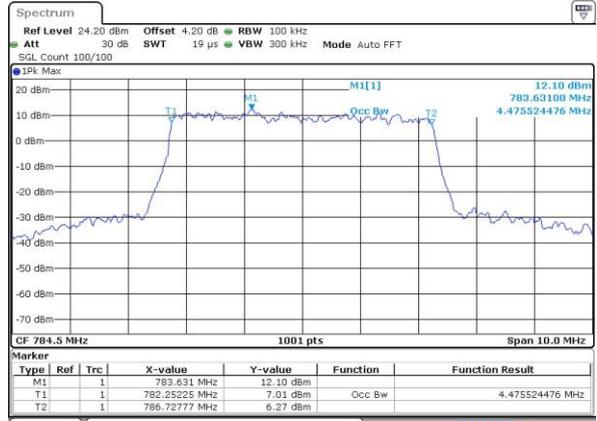
Date: 20 JAN 2016 10:12:57

Highest Channel / 5MHz / QPSK



Date: 20 JAN 2016 10:15:18

Highest Channel / 5MHz / 16QAM

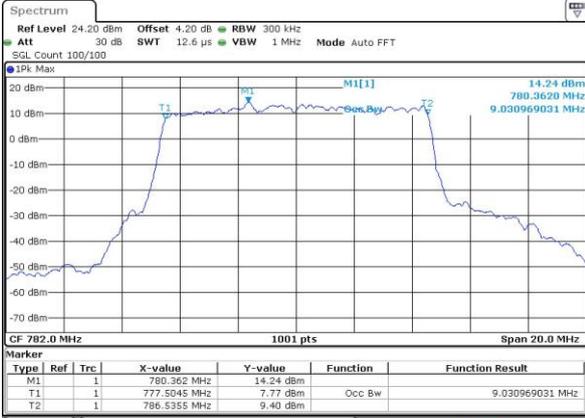


Date: 20 JAN 2016 10:15:28



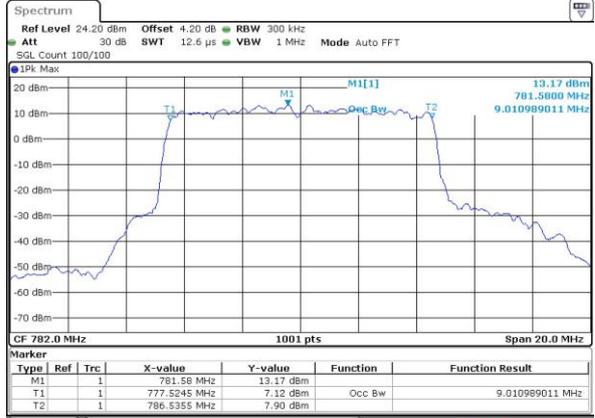
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 20 JAN 2016 10:19:39

Middle Channel / 10MHz / 16QAM



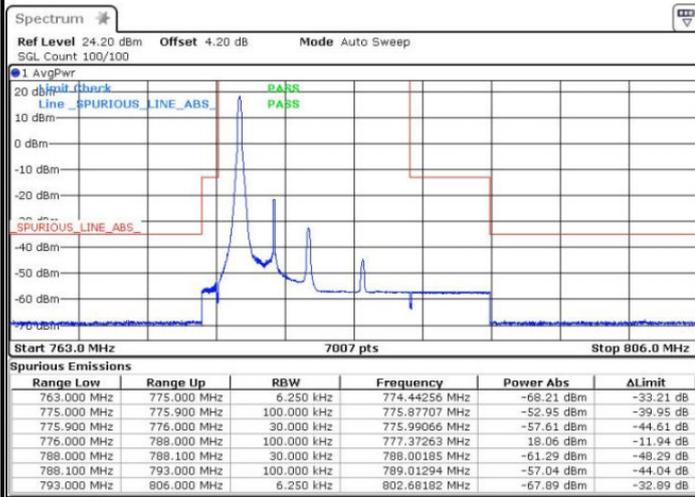
Date: 20 JAN 2016 10:19:49



# Conducted Band Edge

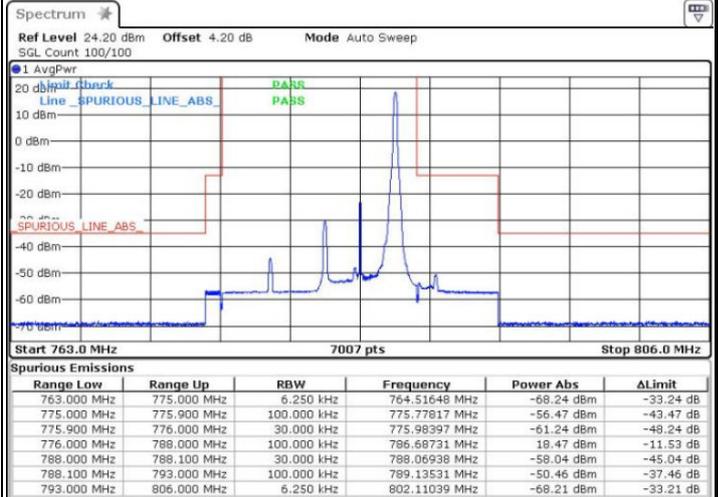
## LTE Band 13 / 5MHz / QPSK

### Lowest Band Edge / 1 RB



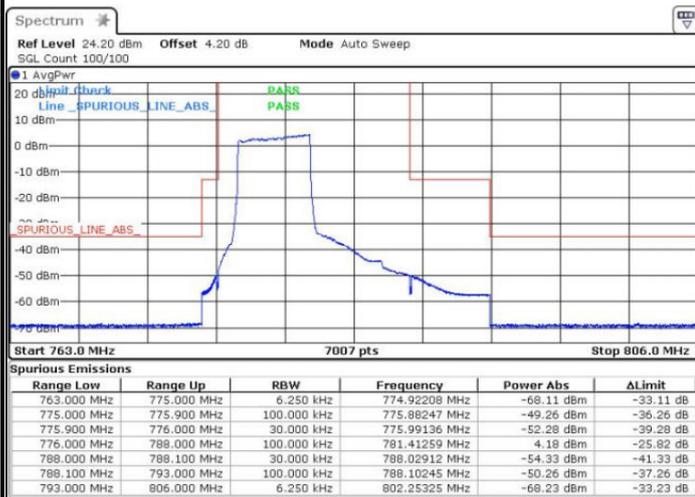
Date: 20 JAN 2016 10:23:22

### Highest Band Edge / 1 RB



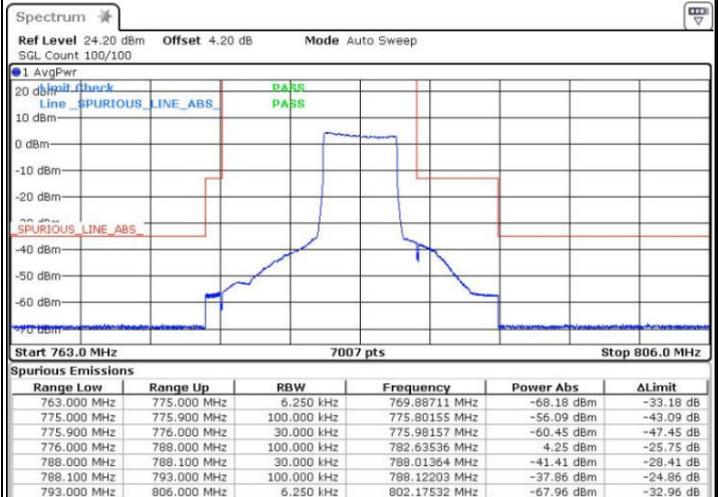
Date: 20 JAN 2016 10:36:48

### Lowest Band Edge / Full RB



Date: 20 JAN 2016 10:29:19

### Highest Band Edge / Full RB



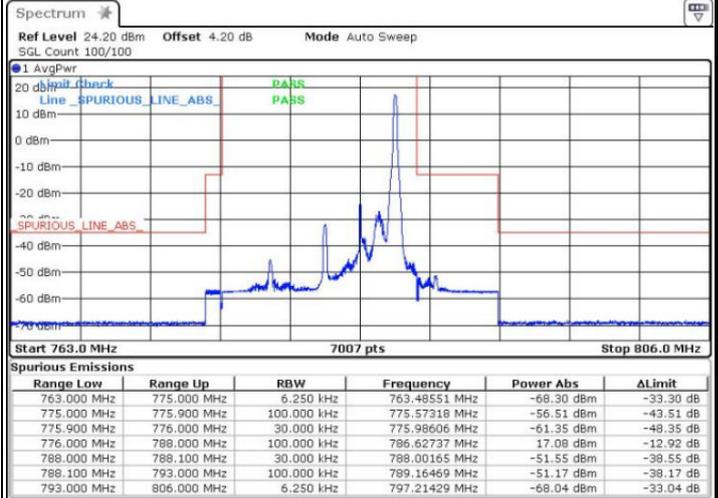
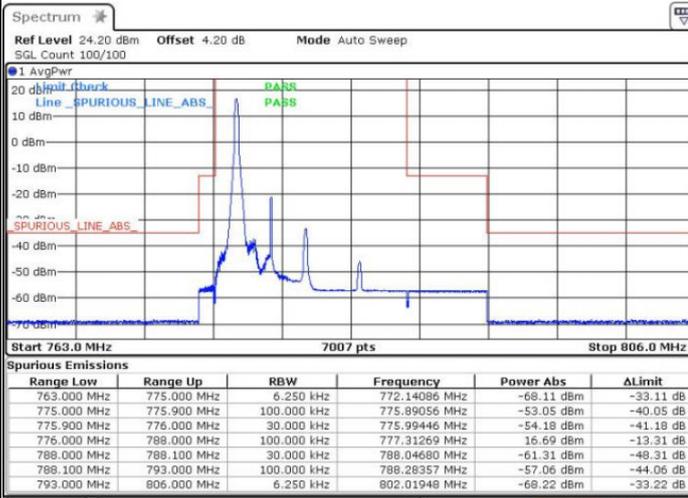
Date: 20 JAN 2016 10:31:03



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

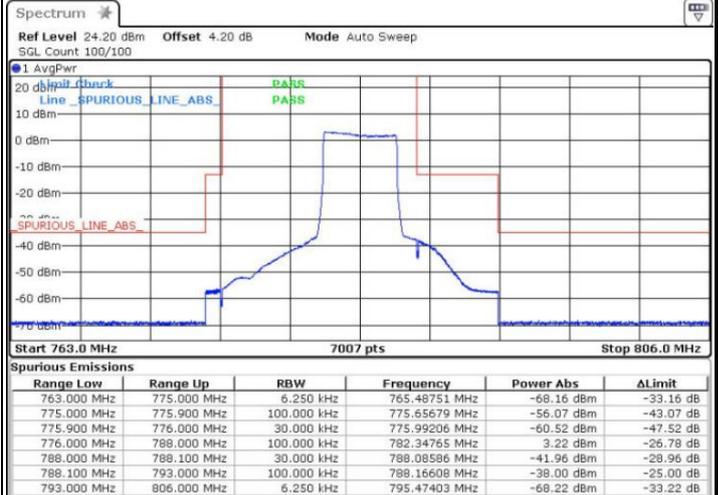
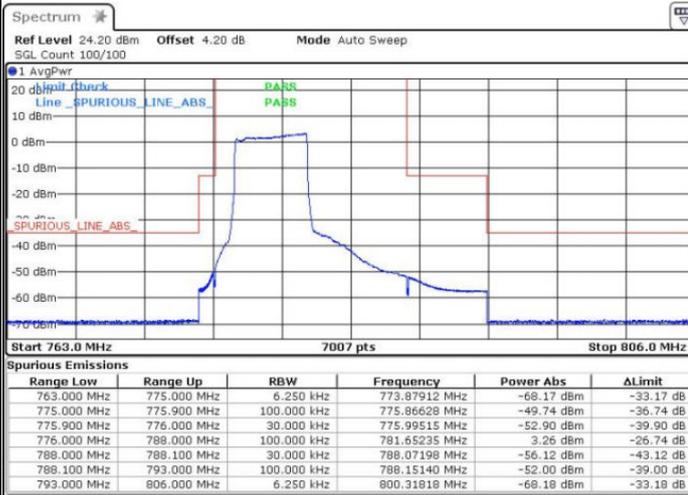


Date: 20 JAN 2016 10:25:12

Date: 20 JAN 2016 10:34:55

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



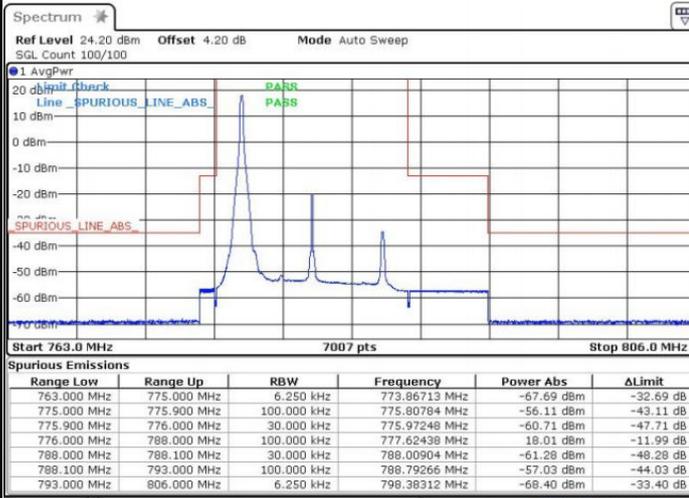
Date: 20 JAN 2016 10:27:30

Date: 20 JAN 2016 10:32:45



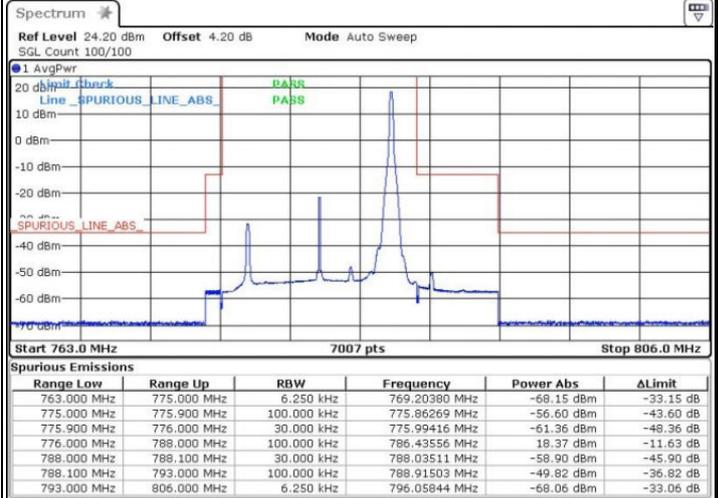
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



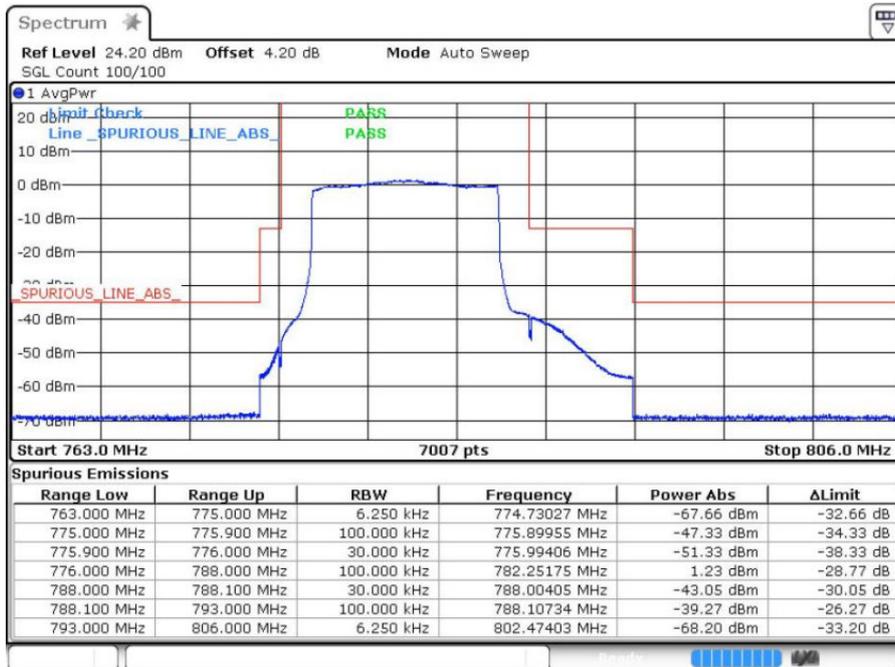
Date: 20 JAN 2016 10:43:33

Highest Band Edge / 1 RB



Date: 20 JAN 2016 10:52:39

Band Edge / Full RB

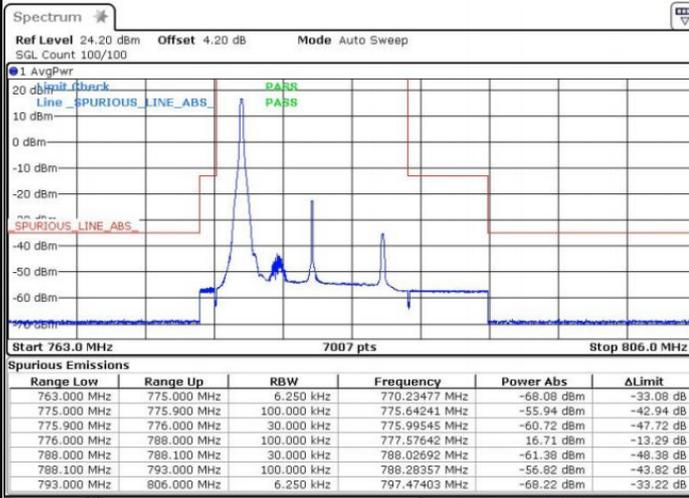


Date: 20 JAN 2016 10:50:41



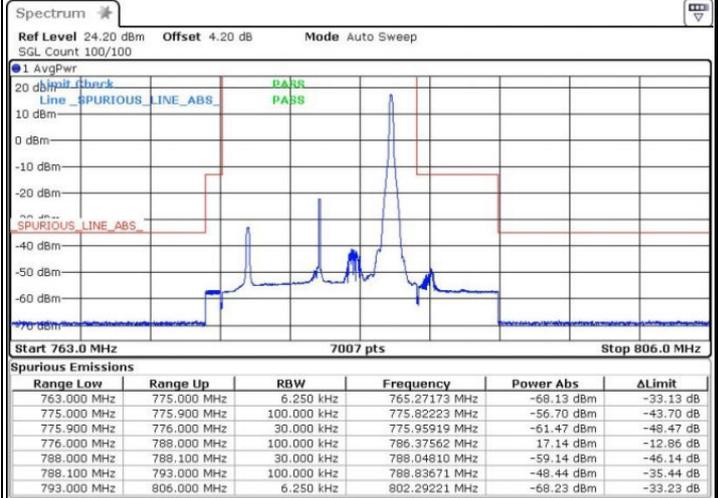
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



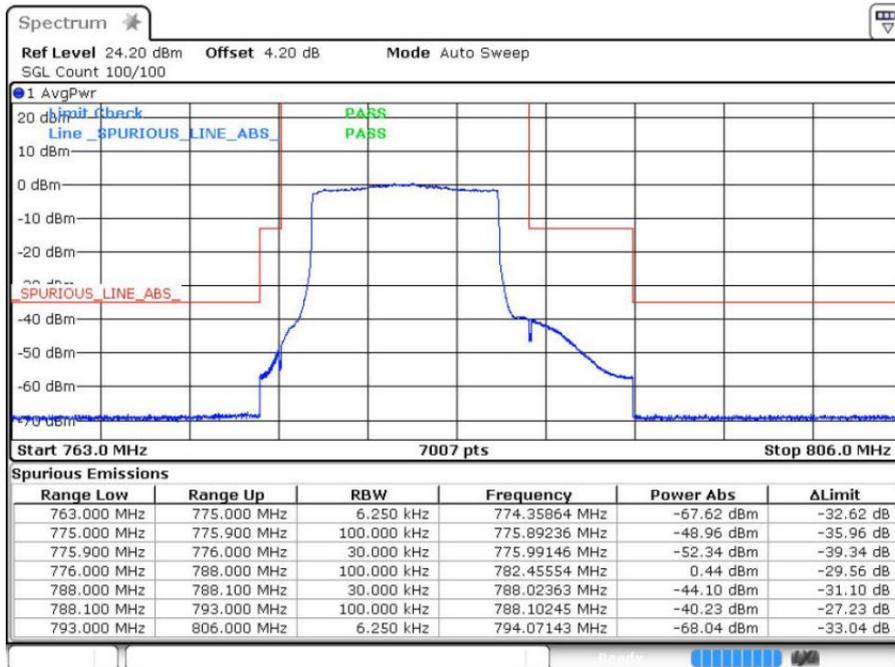
Date: 20 JAN 2016 10:46:11

Highest Band Edge / 1 RB



Date: 20 JAN 2016 10:55:41

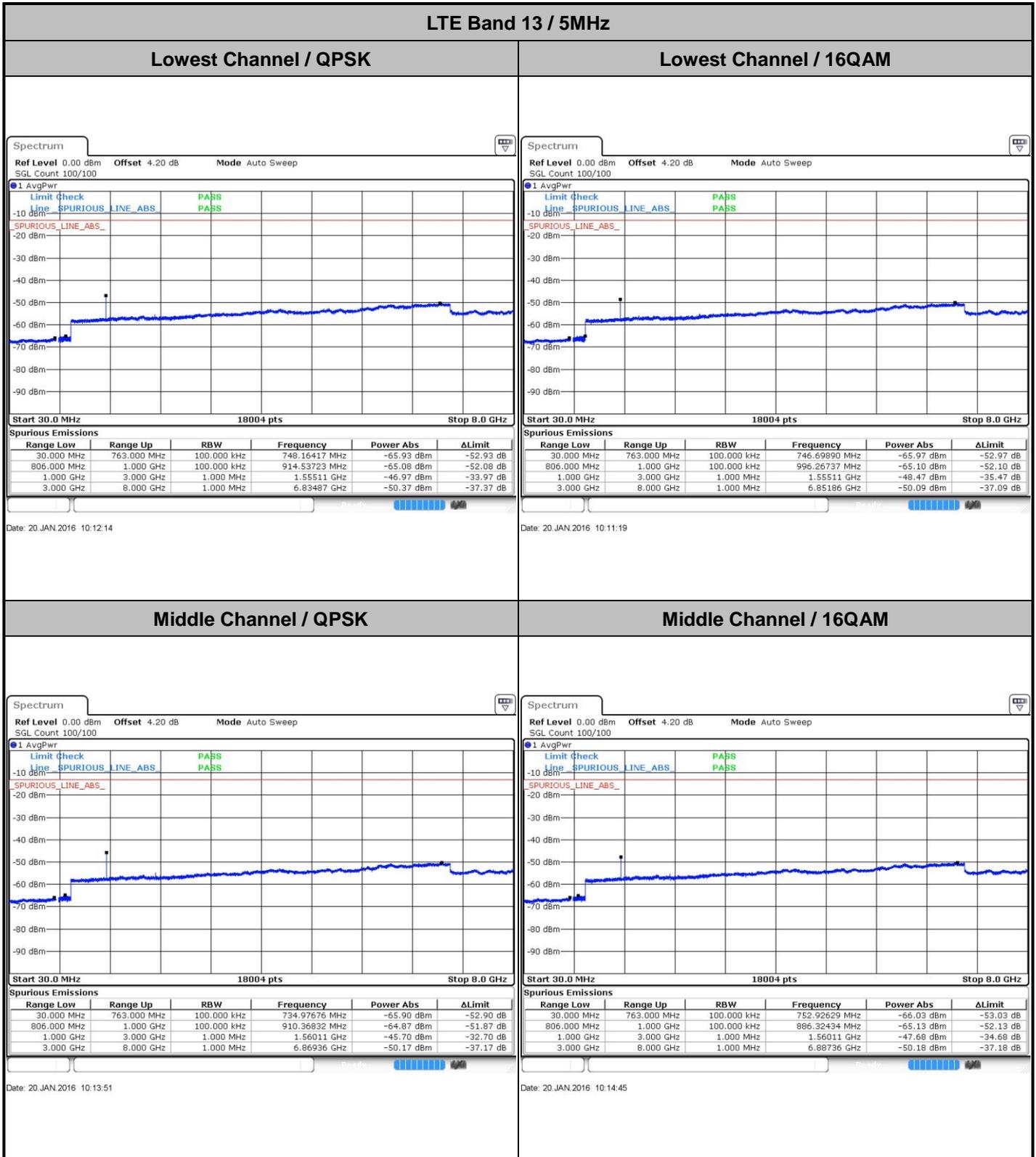
Band Edge / Full RB



Date: 20 JAN 2016 10:48:55



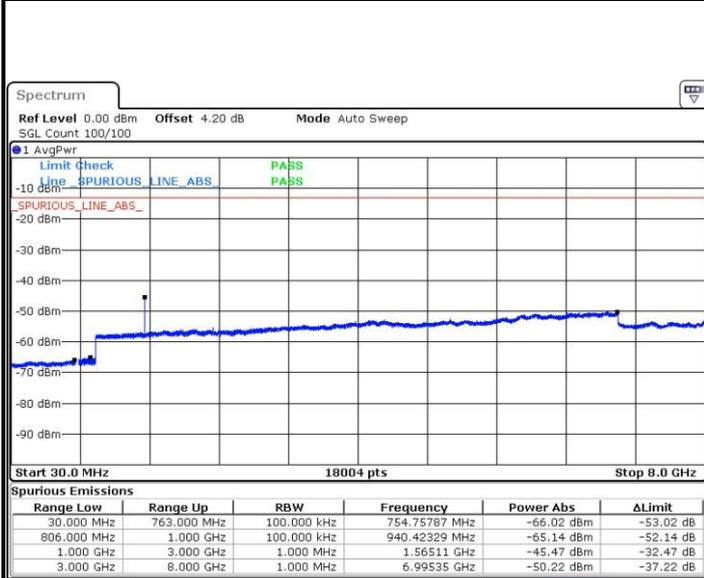
# Conducted Spurious Emission





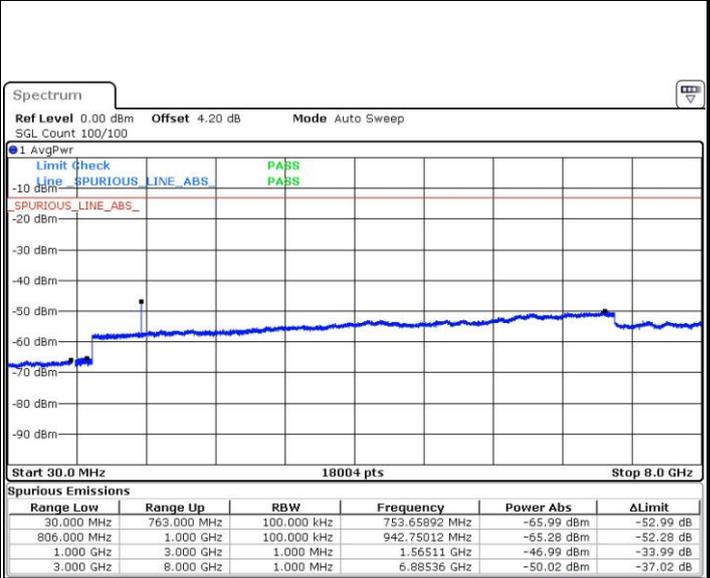
LTE Band 13 / 5MHz

Highest Channel / QPSK



Date: 20 JAN 2016 10:17:17

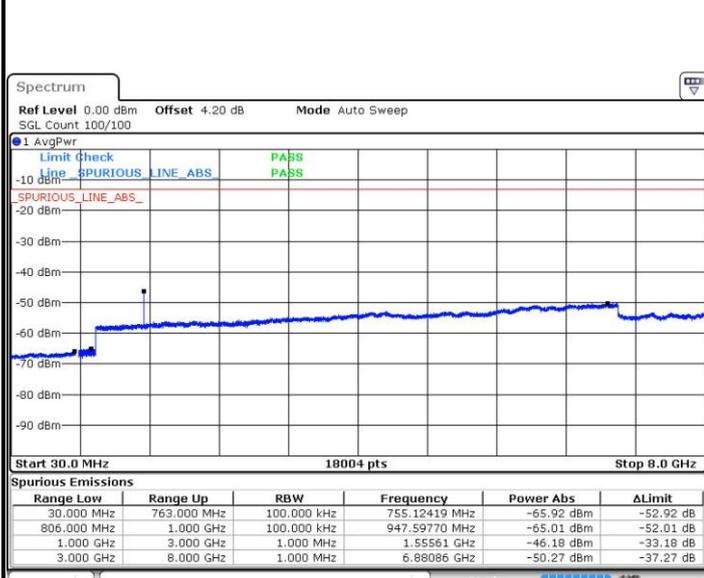
Highest Channel / 16QAM



Date: 20 JAN 2016 10:16:22

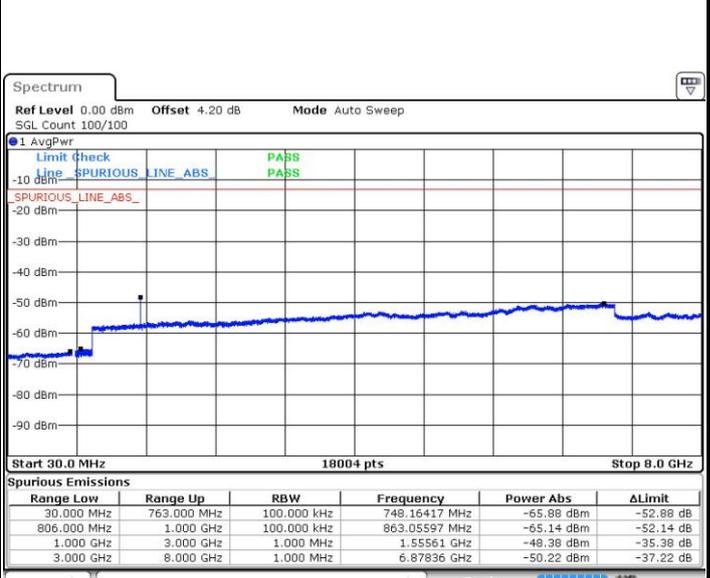
LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 20 JAN 2016 10:18:12

Middle Channel / 16QAM



Date: 20 JAN 2016 10:19:07



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0056	PASS
40	Normal Voltage	0.0040	
30	Normal Voltage	0.0070	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0043	
-10	Normal Voltage	0.0052	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0050	

Note:

1. Normal Voltage = 3.8 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 V
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



## Appendix B. Test Results of Radiated Test

### ERP/EIRP

LTE Band 2 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	24.13	0.2588	23.30	0.2138
Middle		1	0	22.67	0.1849	23.22	0.2099
Highest		1	5	23.42	0.2198	24.38	0.2742
Lowest	16QAM	3	0	22.84	0.1923	22.01	0.1589
Middle		3	0	21.36	0.1368	21.89	0.1545
Highest		1	3	22.19	0.1656	23.15	0.2065
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	24.25	0.2661	23.39	0.2183
Middle		1	14	22.52	0.1786	23.17	0.2075
Highest		1	14	23.50	0.2239	24.42	0.2767
Lowest	16QAM	1	8	22.89	0.1945	21.93	0.1560
Middle		1	0	21.54	0.1426	21.82	0.1521
Highest		1	14	22.14	0.1637	23.08	0.2032
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	24	24.21	0.2636	23.82	0.2410
Middle		1	24	22.42	0.1746	23.29	0.2133
Highest		1	24	23.86	0.2432	24.79	0.3013
Lowest	16QAM	1	24	22.90	0.1950	22.47	0.1766
Middle		1	0	21.68	0.1472	22.11	0.1626
Highest		1	0	22.27	0.1687	23.04	0.2014
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	49	24.06	0.2547	23.49	0.2234
Middle		1	0	22.95	0.1972	23.37	0.2173
Highest		1	49	23.84	0.2421	24.76	0.2992
Lowest	16QAM	1	0	23.12	0.2051	22.43	0.1750
Middle		1	0	21.78	0.1507	22.07	0.1611
Highest		1	0	22.13	0.1633	22.40	0.1738
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	24.17	0.2612	23.68	0.2333
Middle		1	74	22.27	0.1687	23.05	0.2018
Highest		1	74	23.69	0.2339	24.60	0.2884
Lowest	16QAM	1	0	22.84	0.1923	22.31	0.1702
Middle		1	0	22.03	0.1596	22.25	0.1679
Highest		1	0	21.52	0.1419	22.01	0.1589
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	23.73	0.2360	23.35	0.2163
Middle		1	0	23.35	0.2163	23.48	0.2228
Highest		1	0	22.57	0.1807	23.13	0.2056
Lowest	16QAM	1	0	22.66	0.1845	22.27	0.1687
Middle		1	0	22.22	0.1667	22.43	0.1750
Highest		1	49	21.93	0.1560	22.30	0.1698
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	5	26.88	0.4875	27.02	0.5035
Middle		1	5	26.69	0.4667	27.03	0.5047
Highest		3	0	25.99	0.3972	25.62	0.3648
Lowest	16QAM	3	3	25.72	0.3733	25.89	0.3882
Middle		1	0	25.57	0.3606	25.89	0.3882
Highest		3	1	24.89	0.3083	24.50	0.2818
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	14	26.86	0.4853	26.92	0.4920
Middle		1	14	26.43	0.4395	26.80	0.4786
Highest		1	14	25.87	0.3864	25.45	0.3508
Lowest	16QAM	1	14	25.71	0.3724	25.78	0.3784
Middle		1	0	25.42	0.3483	25.59	0.3622
Highest		1	0	24.51	0.2825	24.42	0.2767
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	26.52	0.4487	26.80	0.4786
Middle		1	24	26.51	0.4477	26.84	0.4831
Highest		1	0	25.96	0.3945	26.10	0.4074
Lowest	16QAM	1	12	25.44	0.3499	25.60	0.3631
Middle		1	24	25.31	0.3396	25.67	0.3690
Highest		1	0	24.84	0.3048	24.96	0.3133
Limit	EIRP < 1W			Result		PASS	



LTE Band 4/ 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	26.51	0.4477	26.82	0.4808
Middle		1	0	26.87	0.4864	27.00	0.5012
Highest		1	0	25.97	0.3954	26.03	0.4009
Lowest	16QAM	1	0	25.49	0.3540	25.70	0.3715
Middle		1	0	25.87	0.3864	25.78	0.3784
Highest		1	0	24.81	0.3027	24.99	0.3155
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	27.05	0.5070	26.98	0.4989
Middle		1	0	26.93	0.4932	26.99	0.5000
Highest		1	0	25.97	0.3954	26.57	0.4539
Lowest	16QAM	1	0	25.51	0.3556	25.73	0.3741
Middle		1	0	25.86	0.3855	25.92	0.3908
Highest		1	0	25.18	0.3296	25.69	0.3707
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	99	27.11	0.5140	27.14	0.5176
Middle		1	0	27.16	0.5200	27.08	0.5105
Highest		1	0	26.58	0.4550	26.73	0.4710
Lowest	16QAM	1	99	25.96	0.3945	26.00	0.3981
Middle		1	0	26.11	0.4083	26.02	0.3999
Highest		1	0	25.29	0.3381	25.65	0.3673
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	3	19.07	0.0807	6.71	0.0047
Middle		3	3	18.33	0.0681	5.34	0.0034
Highest		3	3	17.97	0.0627	4.15	0.0026
Lowest	16QAM	3	0	18.11	0.0647	5.73	0.0037
Middle		3	0	17.39	0.0548	4.45	0.0028
Highest		3	1	16.90	0.0490	3.08	0.0020
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	19.27	0.0845	7.38	0.0055
Middle		1	0	18.58	0.0721	6.26	0.0042
Highest		1	0	18.22	0.0664	4.91	0.0031
Lowest	16QAM	1	0	18.12	0.0649	6.21	0.0042
Middle		1	0	17.37	0.0546	5.12	0.0033
Highest		1	0	17.04	0.0506	3.64	0.0023
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	18.92	0.0780	6.64	0.0046
Middle		1	0	18.46	0.0701	6.24	0.0042
Highest		1	24	18.10	0.0646	4.96	0.0031
Lowest	16QAM	1	0	17.94	0.0622	6.09	0.0041
Middle		1	0	17.18	0.0522	4.98	0.0031
Highest		1	0	16.98	0.0499	4.02	0.0025
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	18.85	0.0767	6.09	0.0041
Middle		1	49	18.18	0.0658	5.06	0.0032
Highest		1	49	18.35	0.0684	4.37	0.0027
Lowest	16QAM	1	49	17.59	0.0574	4.90	0.0031
Middle		1	49	17.10	0.0513	3.89	0.0024
Highest		1	49	17.10	0.0513	3.24	0.0021
Limit	ERP < 7W			Result		PASS	



LTE Band 12 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	20.07	0.1016	5.25	0.0033
Middle		3	1	20.85	0.1216	6.98	0.0050
Highest		3	3	20.18	0.1042	7.39	0.0055
Lowest	16QAM	3	3	19.01	0.0796	4.19	0.0026
Middle		1	5	19.86	0.0968	5.79	0.0038
Highest		3	3	19.18	0.0828	6.42	0.0044
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 3MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	20.25	0.1059	4.93	0.0031
Middle		1	14	21.02	0.1265	6.56	0.0045
Highest		1	14	20.17	0.1040	7.08	0.0051
Lowest	16QAM	1	8	19.00	0.0794	3.62	0.0023
Middle		1	14	19.75	0.0944	5.41	0.0035
Highest		1	14	19.08	0.0809	5.91	0.0039
Limit	ERP < 3W			Result		PASS	



LTE Band 12 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	20.50	0.1122	5.73	0.0037
Middle		1	12	20.92	0.1236	6.25	0.0042
Highest		1	24	20.14	0.1033	7.04	0.0051
Lowest	16QAM	1	0	19.06	0.0805	3.52	0.0022
Middle		1	0	19.58	0.0908	5.04	0.0032
Highest		1	24	18.95	0.0785	5.85	0.0038
Limit	ERP < 3W			Result		PASS	

LTE Band 12 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	20.95	0.1245	5.72	0.0037
Middle		1	49	20.79	0.1199	6.44	0.0044
Highest		1	49	20.54	0.1132	7.60	0.0058
Lowest	16QAM	1	0	18.97	0.0789	4.06	0.0025
Middle		1	49	19.58	0.0908	5.13	0.0033
Highest		1	49	19.11	0.0815	5.58	0.0036
Limit	ERP < 3W			Result		PASS	



LTE Band 13 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.03	0.2009	8.26	0.0067
Middle		1	0	23.02	0.2004	8.24	0.0067
Highest		1	0	22.62	0.1828	8.19	0.0066
Lowest	16QAM	1	12	21.98	0.1578	7.36	0.0054
Middle		1	24	21.77	0.1503	7.21	0.0053
Highest		1	12	21.62	0.1452	6.81	0.0048
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	49	22.55	0.1799	7.90	0.0062
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	22.05	0.1603	7.49	0.0056
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



### Radiated Spurious Emission

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-52.24	-13	-39.24	-66.44	-56.84	3	7.60	H
	5638	-47.77	-13	-34.77	-61.56	-54.03	3.84	10.10	H
	7518	-42.56	-13	-29.56	-62.34	-50.06	4.43	11.93	H
	3759	-53.41	-13	-40.41	-65.9	-58.01	3	7.60	V
	5638	-48.86	-13	-35.86	-61.27	-55.12	3.84	10.10	V
	7518	-46.36	-13	-33.36	-64.15	-53.86	4.43	11.93	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3756	-51.56	-13	-38.56	-65.76	-56.16	3	7.60	H
	5636	-47.70	-13	-34.70	-61.49	-53.96	3.84	10.10	H
	7515	-43.80	-13	-30.80	-63.58	-51.30	4.43	11.93	H
	3756	-52.99	-13	-39.99	-65.48	-57.59	3	7.60	V
	5636	-49.45	-13	-36.45	-61.86	-55.71	3.84	10.10	V
	7515	-46.05	-13	-33.05	-63.84	-53.55	4.43	11.93	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3756	-51.19	-13	-38.19	-65.39	-55.79	3	7.60	H
	5633	-47.56	-13	-34.56	-61.35	-53.82	3.84	10.10	H
	7512	-44.06	-13	-31.06	-63.84	-51.56	4.43	11.93	H
	3756	-53.48	-13	-40.48	-65.97	-58.08	3	7.60	V
	5633	-49.89	-13	-36.89	-62.3	-56.15	3.84	10.10	V
	7512	-45.59	-13	-32.59	-63.38	-53.09	4.43	11.93	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3750	-51.68	-13	-38.68	-65.88	-56.28	3	7.60	H
	5627	-46.57	-13	-33.57	-60.36	-52.83	3.84	10.10	H
	7503	-42.64	-13	-29.64	-62.42	-50.14	4.43	11.93	H
	3750	-52.62	-13	-39.62	-65.11	-57.22	3	7.60	V
	5627	-49.01	-13	-36.01	-61.42	-55.27	3.84	10.10	V
	7503	-45.21	-13	-32.21	-63	-52.71	4.43	11.93	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3747	-50.95	-13	-37.95	-65.15	-55.55	3	7.60	H
	5620	-47.91	-13	-34.91	-61.70	-54.17	3.84	10.10	H
	7494	-42.13	-13	-29.13	-61.91	-49.63	4.43	11.93	H
	3747	-52.76	-13	-39.76	-65.25	-57.36	3	7.60	V
	5620	-49.73	-13	-36.73	-62.14	-55.99	3.84	10.10	V
	7494	-45.16	-13	-32.16	-62.95	-52.66	4.43	11.93	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-50.90	-13	-37.90	-65.10	-55.50	3	7.60	H
	5613	-47.96	-13	-34.96	-61.75	-54.22	3.84	10.10	H
	7485	-43.17	-13	-30.17	-62.95	-50.67	4.43	11.93	H
	3741	-52.86	-13	-39.86	-65.35	-57.46	3	7.60	V
	5613	-50.13	-13	-37.13	-62.54	-56.39	3.84	10.10	V
	7485	-45.26	-13	-32.26	-63.05	-52.76	4.43	11.93	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-52.33	-13	-39.33	-66.46	-56.70	3.12	7.49	H
	5196.15	-48.81	-13	-35.81	-61.96	-54.61	3.65	9.45	H
	6927	-45.77	-13	-32.77	-62.63	-52.97	4.15	11.35	H
	3465	-54.12	-13	-41.12	-66.94	-58.49	3.12	7.49	V
	5196	-49.03	-13	-36.03	-63.04	-54.83	3.65	9.45	V
	6927	-47.49	-13	-34.49	-62.74	-54.69	4.15	11.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3462	-52.89	-13	-39.89	-67.02	-57.26	3.12	7.49	H
	5193	-49.02	-13	-36.02	-62.17	-54.82	3.65	9.45	H
	6924	-45.86	-13	-32.86	-62.72	-53.06	4.15	11.35	H
	3462	-53.58	-13	-40.58	-66.4	-57.95	3.12	7.49	V
	5193.72	-48.46	-13	-35.46	-62.47	-54.26	3.65	9.45	V
	6924	-46.61	-13	-33.61	-61.86	-53.81	4.15	11.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3462	-52.94	-13	-39.94	-67.07	-57.31	3.12	7.49	H
	5191.02	-49.21	-13	-36.21	-62.36	-55.01	3.65	9.45	H
	6921	-45.99	-13	-32.99	-62.85	-53.19	4.15	11.35	H
	3462	-54.16	-13	-41.16	-66.98	-58.53	3.12	7.49	V
	5191.02	-48.84	-13	-35.84	-62.85	-54.64	3.65	9.45	V
	6921	-47.42	-13	-34.42	-62.67	-54.62	4.15	11.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3456	-50.95	-13	-37.95	-65.08	-55.32	3.12	7.49	H
	5184.27	-47.77	-13	-34.77	-60.92	-53.57	3.65	9.45	H
	6912	-45.63	-13	-32.63	-62.49	-52.83	4.15	11.35	H
	3456.09	-53.60	-13	-40.60	-66.42	-57.97	3.12	7.49	V
	5184	-48.04	-13	-35.04	-62.05	-53.84	3.65	9.45	V
	6912	-46.59	-13	-33.59	-61.84	-53.79	4.15	11.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3451	-52.56	-13	-39.56	-66.69	-56.93	3.12	7.49	H
	5177	-49.15	-13	-36.15	-62.30	-54.95	3.65	9.45	H
	6903	-46.08	-13	-33.08	-62.94	-53.28	4.15	11.35	H
	3451	-54.01	-13	-41.01	-66.83	-58.38	3.12	7.49	V
	5177	-48.54	-13	-35.54	-62.55	-54.34	3.65	9.45	V
	6903	-47.81	-13	-34.81	-63.06	-55.01	4.15	11.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3447	-53.54	-13	-40.54	-67.67	-57.91	3.12	7.49	H
	5170.77	-47.90	-13	-34.90	-61.05	-53.70	3.65	9.45	H
	6894	-44.85	-13	-31.85	-61.71	-52.05	4.15	11.35	H
	3447	-54.49	-13	-41.49	-67.31	-58.86	3.12	7.49	V
	5170.77	-48.12	-13	-35.12	-62.13	-53.92	3.65	9.45	V
	6894	-47.80	-13	-34.80	-63.05	-55.00	4.15	11.35	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-53.82	-13	-40.82	-56.00	-55.71	1.86	5.90	H
	2508	-53.16	-13	-40.16	-62.19	-55.50	2.31	6.80	H
	3345	-54.40	-13	-41.40	-67.03	-56.80	2.85	7.40	H
	1672	-59.33	-13	-46.33	-58.19	-61.22	1.86	5.90	V
	2508	-52.14	-13	-39.14	-63.11	-54.48	2.31	6.80	V
	3344	-53.27	-13	-40.27	-67.25	-55.67	2.85	7.40	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1670	-55.10	-13	-42.10	-57.28	-56.99	1.86	5.90	H
	2504	-54.11	-13	-41.11	-63.14	-56.45	2.31	6.80	H
	3339	-54.34	-13	-41.34	-66.97	-56.74	2.85	7.40	H
	1670	-57.42	-13	-44.42	-56.28	-59.31	1.86	5.90	V
	2504	-52.13	-13	-39.13	-63.10	-54.47	2.31	6.80	V
	3339	-52.56	-13	-39.56	-66.54	-54.96	2.85	7.40	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1668	-54.86	-13	-41.86	-57.04	-56.75	1.86	5.90	H
	2504	-53.73	-13	-40.73	-62.76	-56.07	2.31	6.80	H
	3336	-53.48	-13	-40.48	-66.11	-55.88	2.85	7.40	H
	1668	-58.71	-13	-45.71	-57.57	-60.60	1.86	5.90	V
	2504	-52.15	-13	-39.15	-63.12	-54.49	2.31	6.80	V
	3336	-52.38	-13	-39.38	-66.36	-54.78	2.85	7.40	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-53.56	-13	-40.56	-55.74	-55.45	1.86	5.90	H
	2496	-52.59	-13	-39.59	-61.62	-54.93	2.31	6.80	H
	3327	-54.12	-13	-41.12	-66.75	-56.52	2.85	7.40	H
	1664	-57.75	-13	-44.75	-56.61	-59.64	1.86	5.90	V
	2496	-52.16	-13	-39.16	-63.13	-54.50	2.31	6.80	V
	3327	-53.06	-13	-40.06	-67.04	-55.46	2.85	7.40	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1414	-61.17	-13	-48.17	-57.59	-62.15	1.75	4.88	H
	2121	-54.73	-13	-41.73	-60.74	-56.35	2.16	5.93	H
	2828.5	-54.36	-13	-41.36	-64.78	-56.39	2.48	6.66	H
	1414	-58.36	-13	-45.36	-56.83	-59.34	1.75	4.88	V
	2121	-53.14	-13	-40.14	-61.12	-54.76	2.16	5.93	V
	2828	-52.83	-13	-39.83	-64.34	-54.86	2.48	6.66	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1412	-59.91	-13	-46.91	-56.33	-60.89	1.75	4.88	H
	2118	-54.54	-13	-41.54	-60.55	-56.16	2.16	5.93	H
	2825	-53.85	-13	-40.85	-64.27	-55.88	2.48	6.66	H
	1412	-58.59	-13	-45.59	-57.06	-59.57	1.75	4.88	V
	2118	-53.27	-13	-40.27	-61.25	-54.89	2.16	5.93	V
	2824	-52.82	-13	-39.82	-64.33	-54.85	2.48	6.66	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1410	-60.30	-13	-47.30	-56.72	-61.28	1.75	4.88	H
	2116	-55.11	-13	-42.11	-61.12	-56.73	2.16	5.93	H
	2820	-52.61	-13	-39.61	-63.03	-54.64	2.48	6.66	H
	1410	-58.17	-13	-45.17	-56.64	-59.15	1.75	4.88	V
	2116	-53.07	-13	-40.07	-61.05	-54.69	2.16	5.93	V
	2821	-51.72	-13	-38.72	-63.23	-53.75	2.48	6.66	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1406	-59.61	-13	-46.61	-56.03	-60.59	1.75	4.88	H
	2108	-53.79	-13	-40.79	-59.80	-55.41	2.16	5.93	H
	2812	-52.93	-13	-39.93	-63.35	-54.96	2.48	6.66	H
	1406	-57.99	-13	-44.99	-56.46	-58.97	1.75	4.88	V
	2108	-51.19	-13	-38.19	-59.17	-52.81	2.16	5.93	V
	2812	-52.00	-13	-39.00	-63.51	-54.03	2.48	6.66	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1560	-59.49	-40	-19.49	-58.06	-62.62	1.75	4.88	H
	2340	-56.15	-13	-43.15	-62.16	-57.77	2.16	5.93	H
	3120	-55.75	-13	-42.75	-66.17	-57.78	2.48	6.66	H
	1560	-56.59	-40	-16.59	-57.21	-59.72	1.75	4.88	V
	2340	-54.33	-13	-41.33	-62.31	-55.95	2.16	5.93	V
	3120	-54.16	-13	-41.16	-65.67	-56.19	2.48	6.66	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0									
Channel	Frequency ( MHz )	ERP ( dBm )	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1556	-60.17	-13	-47.17	-56.59	-61.15	1.75	4.88	H
	2332	-54.30	-13	-41.30	-60.31	-55.92	2.16	5.93	H
	3111	-55.23	-13	-42.23	-65.65	-57.26	2.48	6.66	H
	1556	-57.45	-13	-44.45	-55.92	-58.43	1.75	4.88	V
	2332	-52.92	-13	-39.92	-60.9	-54.54	2.16	5.93	V
	3111	-54.99	-13	-41.99	-66.5	-57.02	2.48	6.66	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.