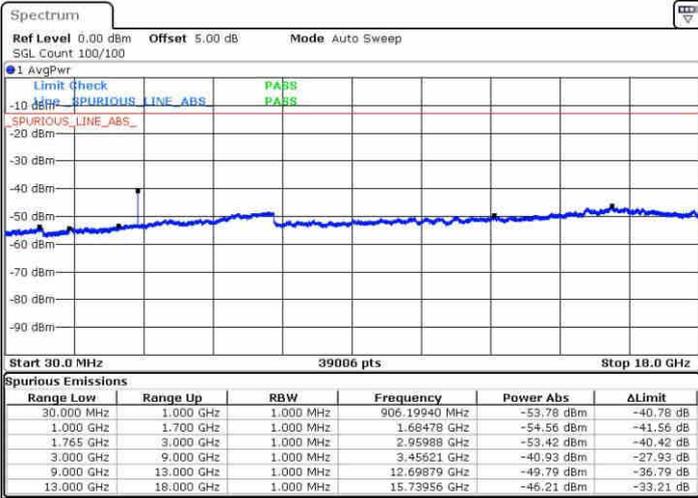




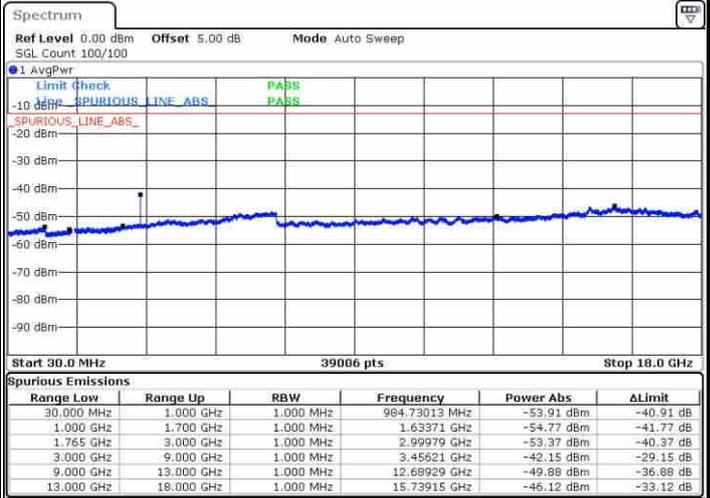
LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



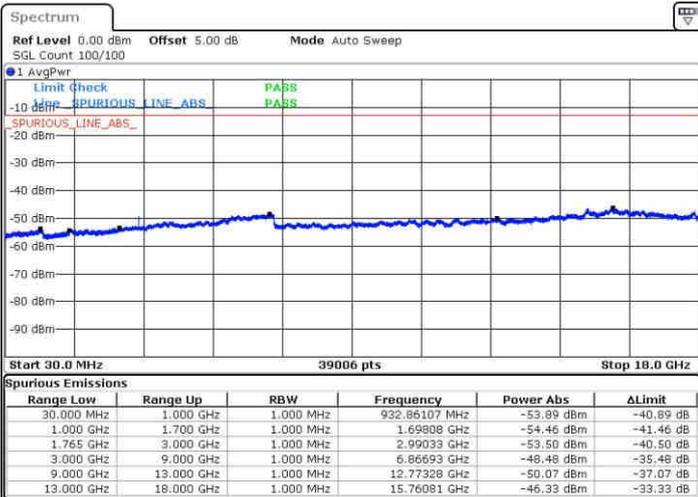
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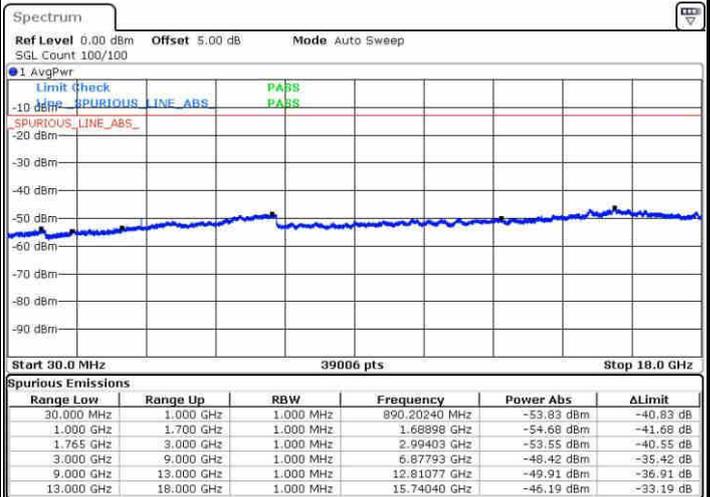
Date: 8 JUL 2016 02:55:58

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 8 JUL 2016 03:02:11



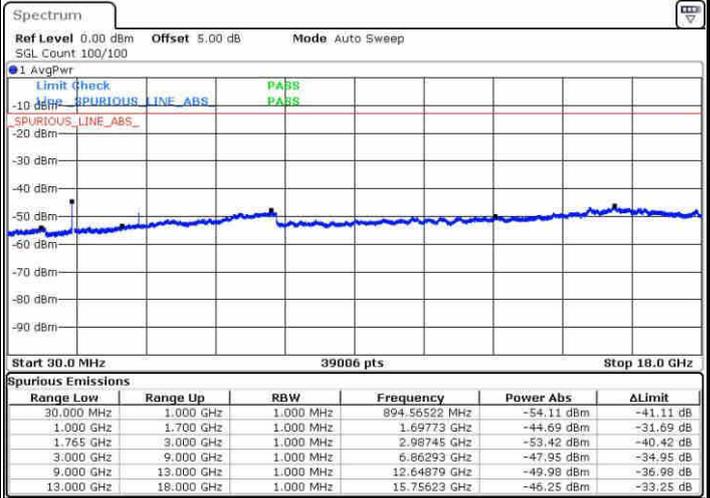
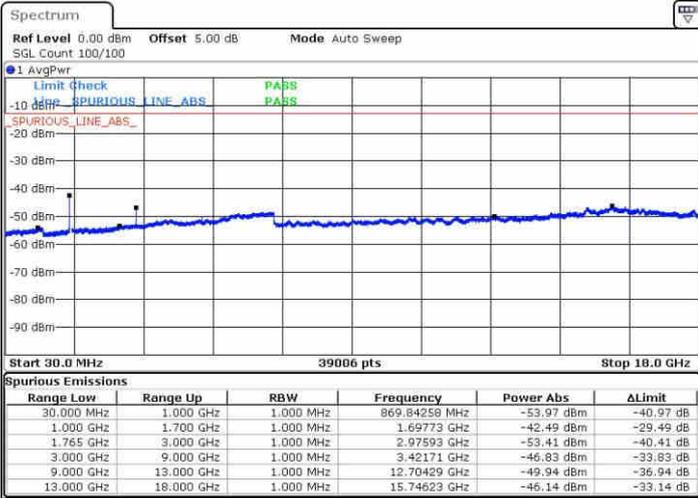
Date: 8 JUL 2016 03:03:07



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

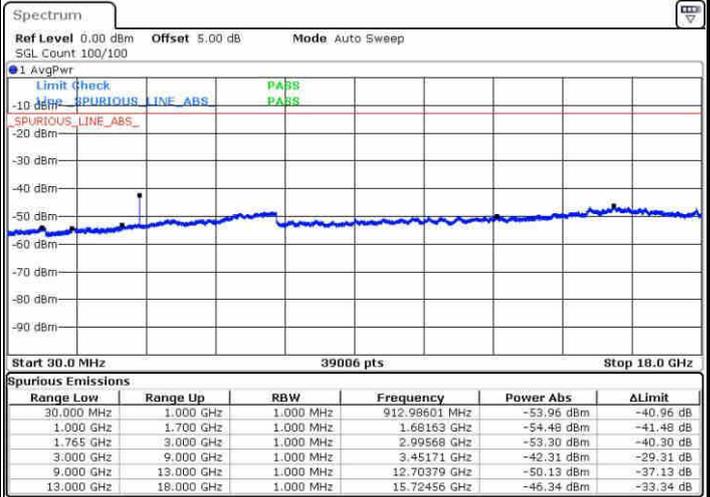
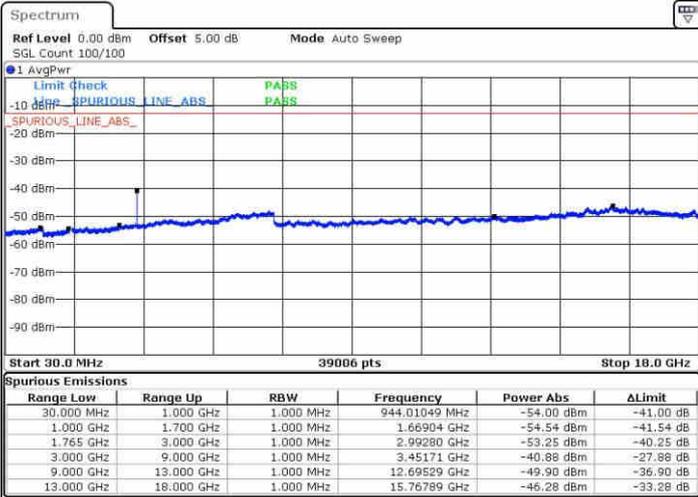


Date: 8 JUL 2016 03:09:22

Date: 8 JUL 2016 03:10:18

Middle Channel / QPSK

Middle Channel / 16QAM



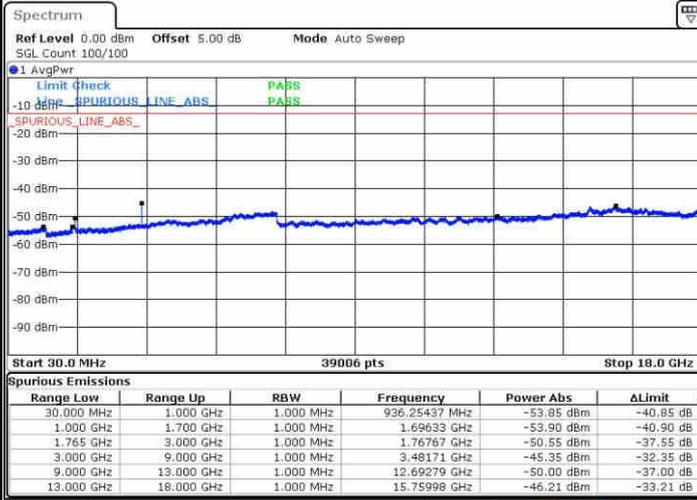
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Date: 8 JUL 2016 03:12:55



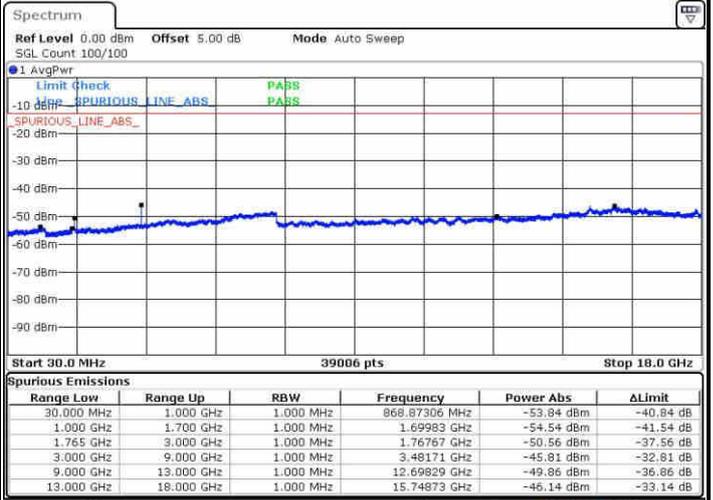
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 8 JUL 2016 03:19:10

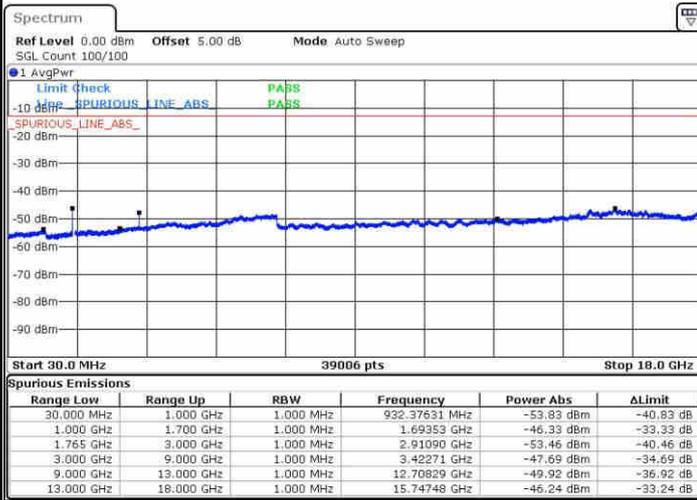
Highest Channel / 16QAM



Date: 8 JUL 2016 03:20:07

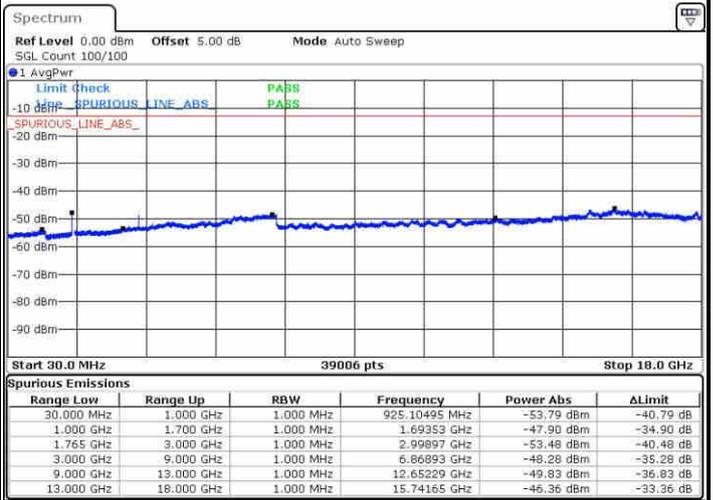
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 8 JUL 2016 03:28:23

Lowest Channel / 16QAM



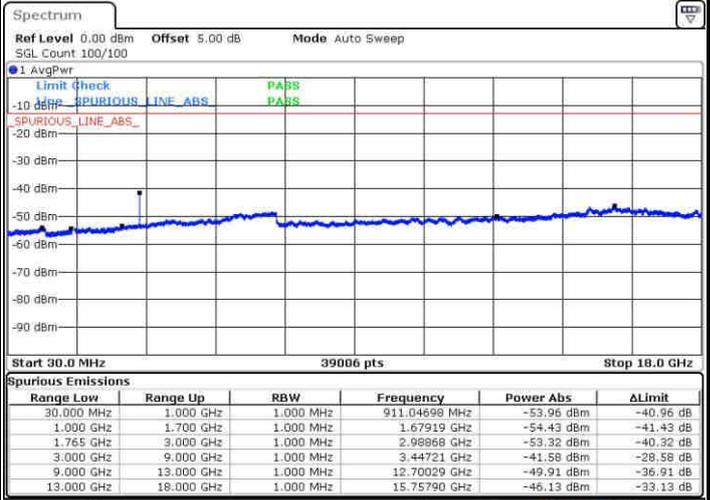
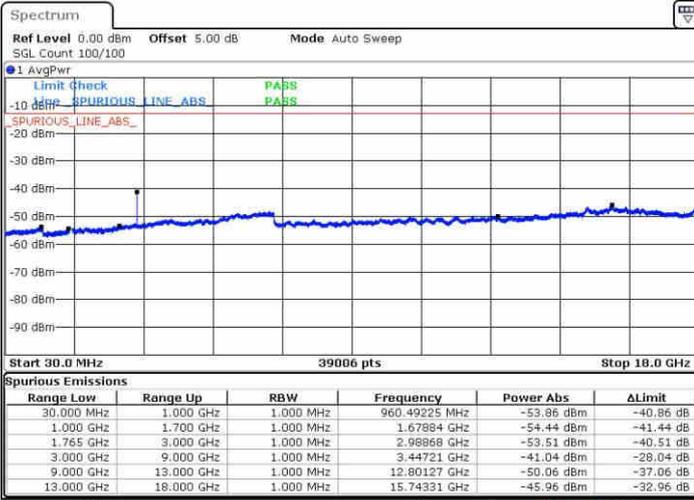
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LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

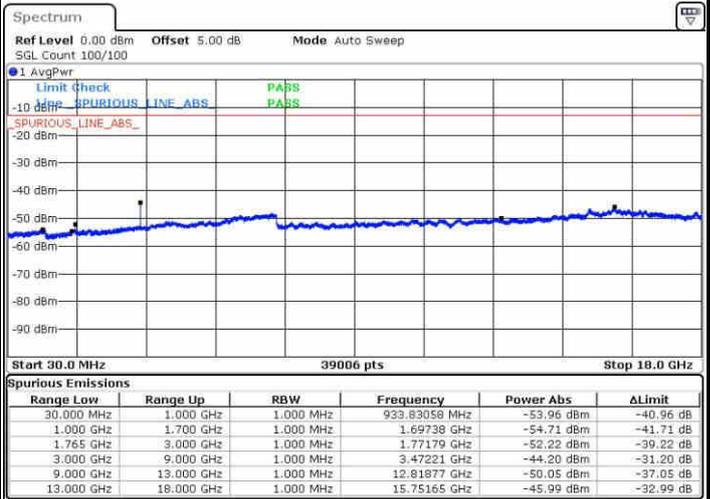
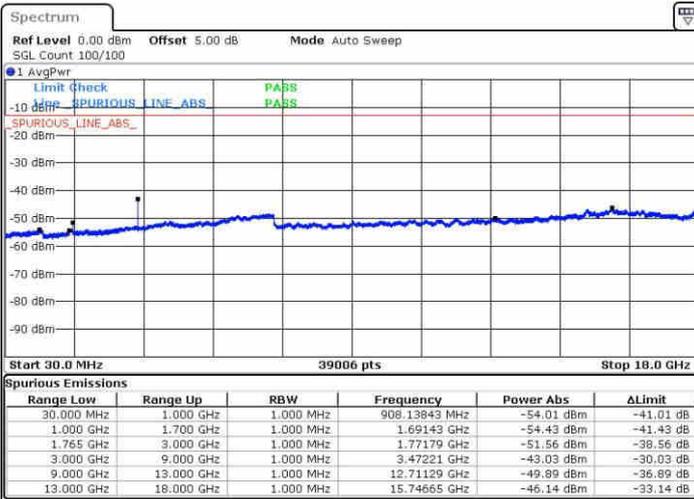


Date: 8 JUL 2016 03:29:00

Date: 8 JUL 2016 03:29:57

Highest Channel / QPSK

Highest Channel / 16QAM



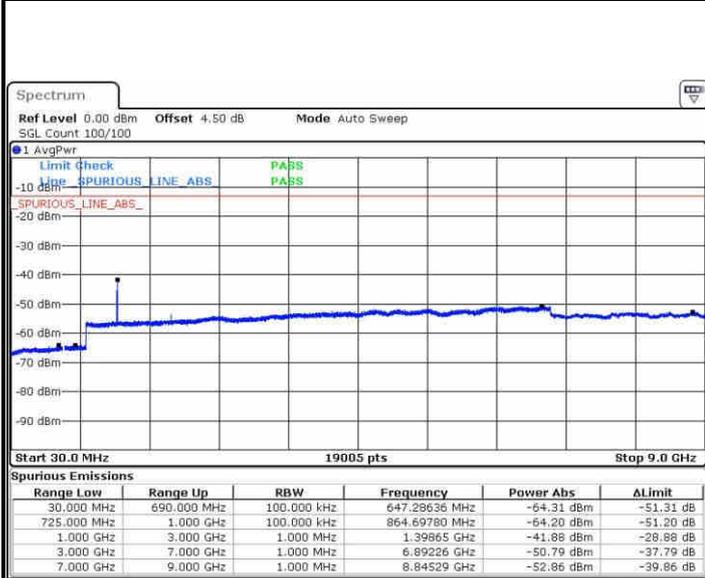
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Date: 8 JUL 2016 03:37:10



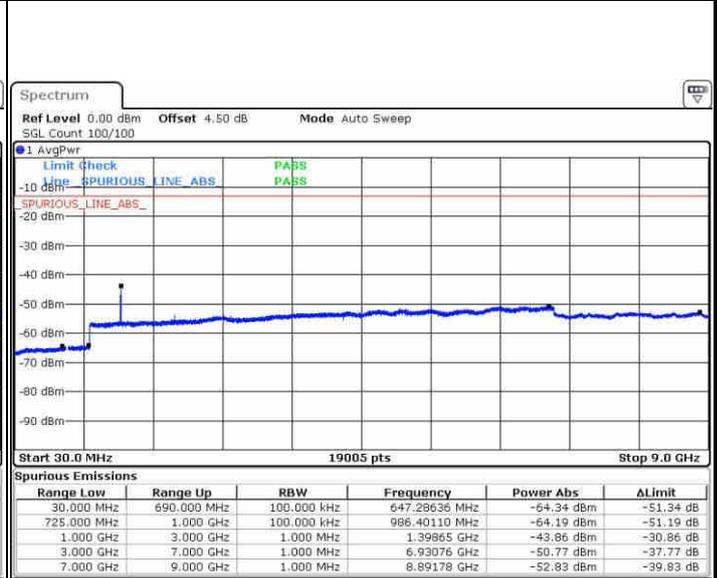
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK



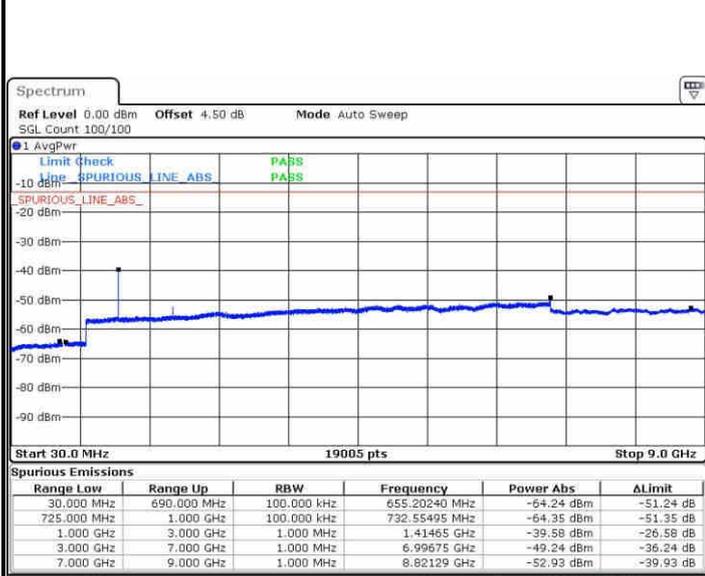
Date: 3 JUL 2016 04:50:39

Lowest Channel / 16QAM



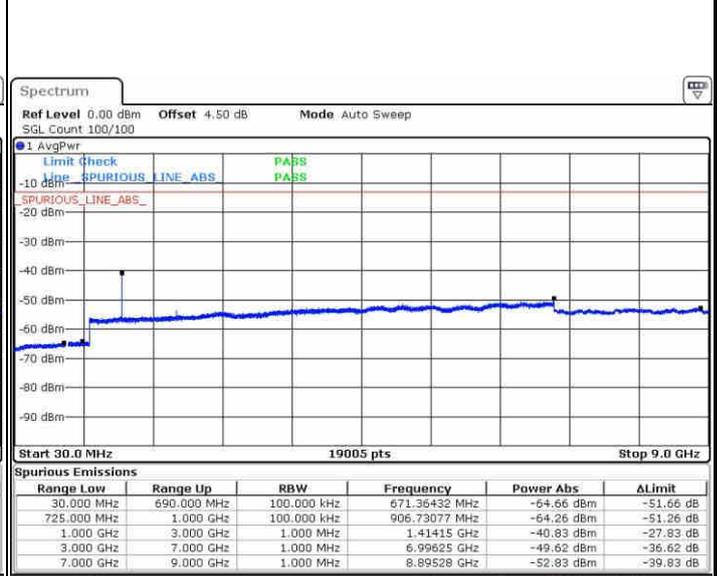
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Middle Channel / QPSK



Date: 3 JUL 2016 04:53:24

Middle Channel / 16QAM

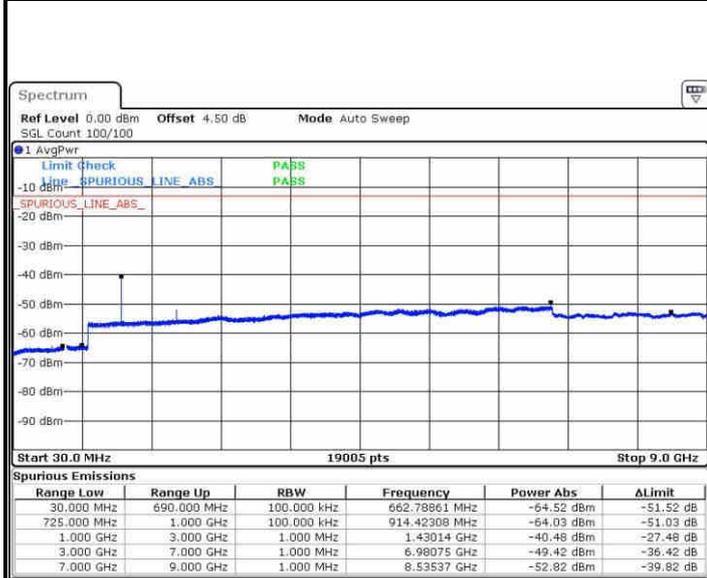


Date: 3 JUL 2016 04:52:29



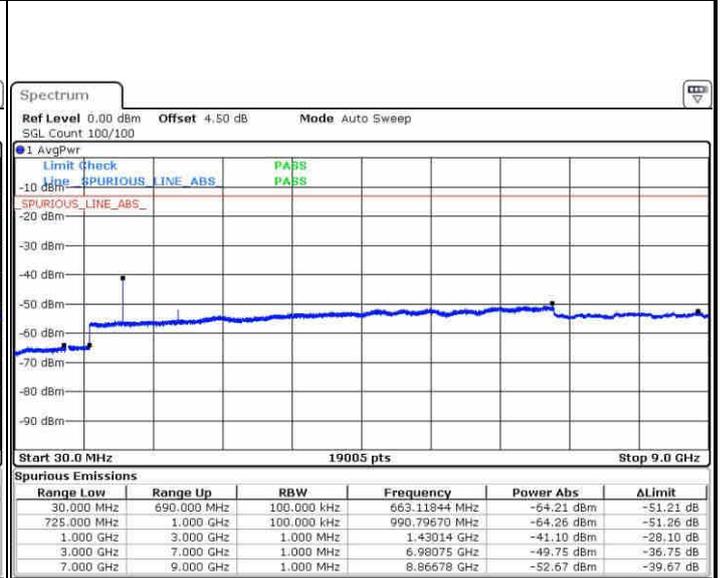
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 3 JUL 2016 04:54:19

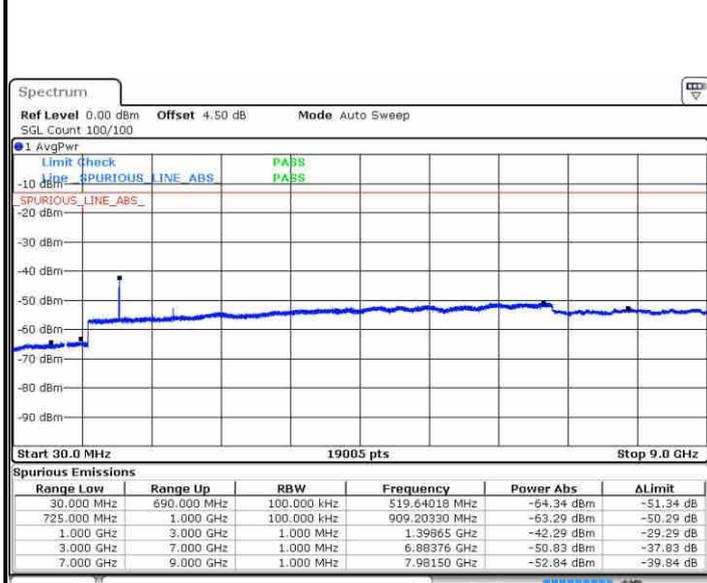
Highest Channel / 16QAM



Date: 3 JUL 2016 04:55:14

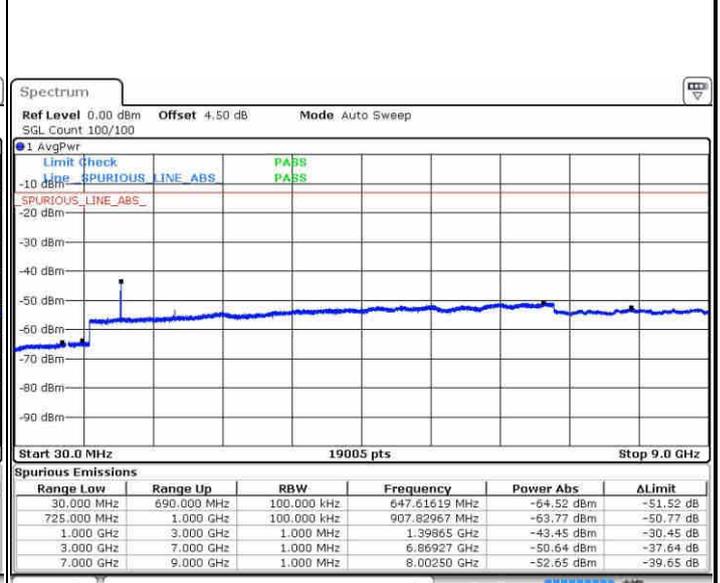
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 3 JUL 2016 05:23:42

Lowest Channel / 16QAM



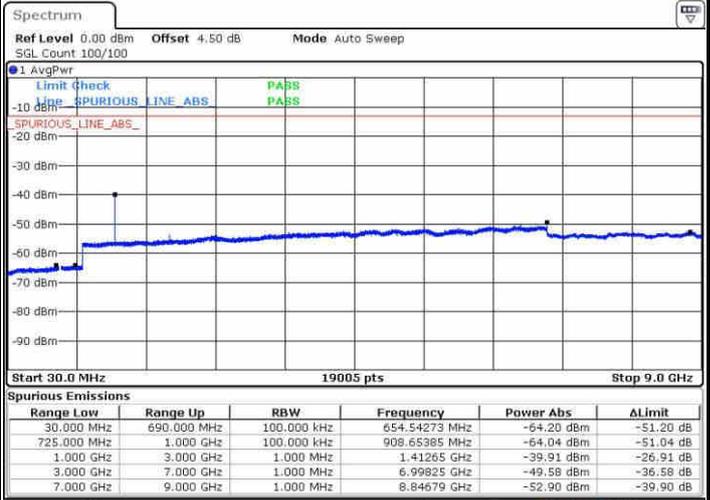
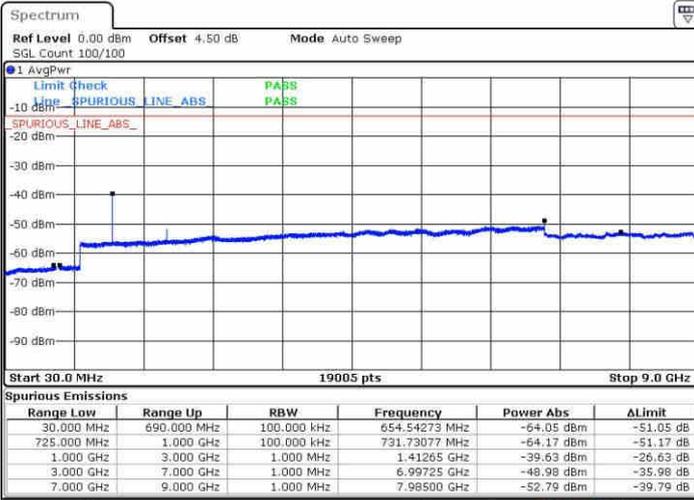
Date: 3 JUL 2016 05:24:38



LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

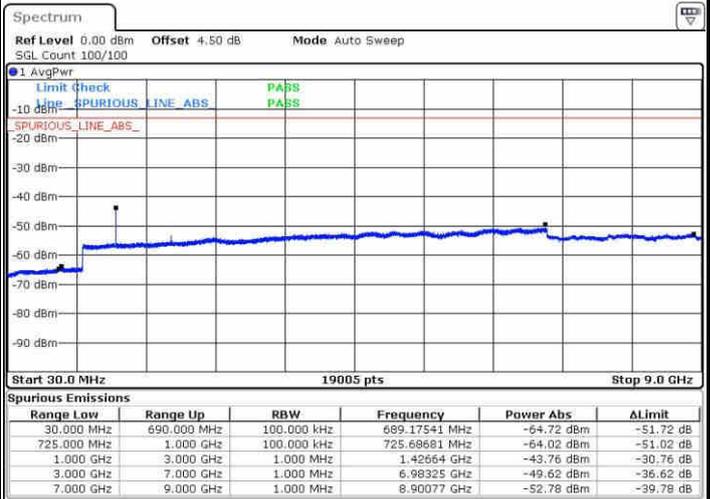
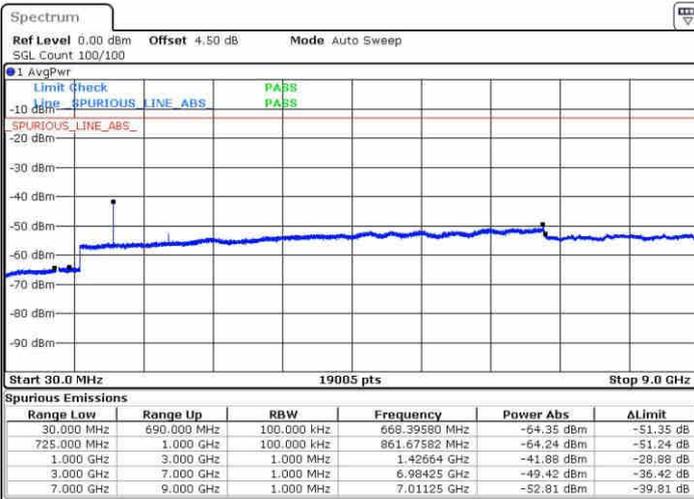


Date: 3 JUL 2016 05:28:28

Date: 3 JUL 2016 05:25:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 3 JUL 2016 05:27:24

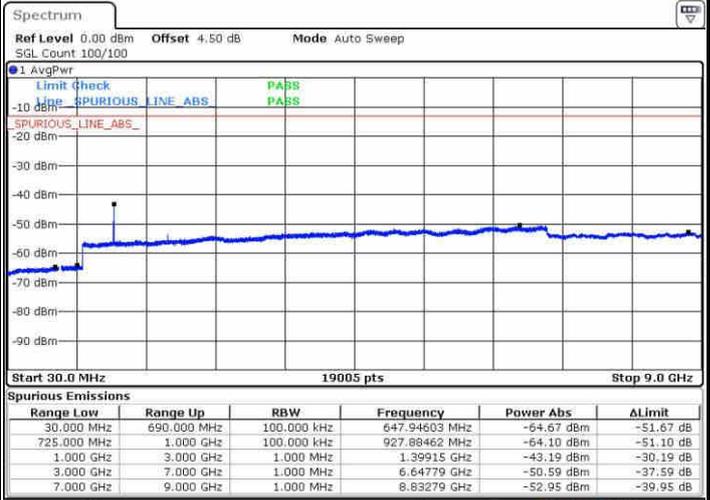
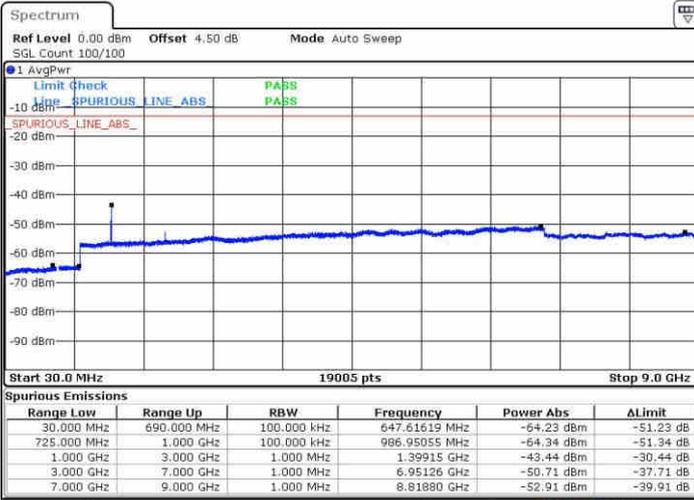
Date: 3 JUL 2016 05:28:19



LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

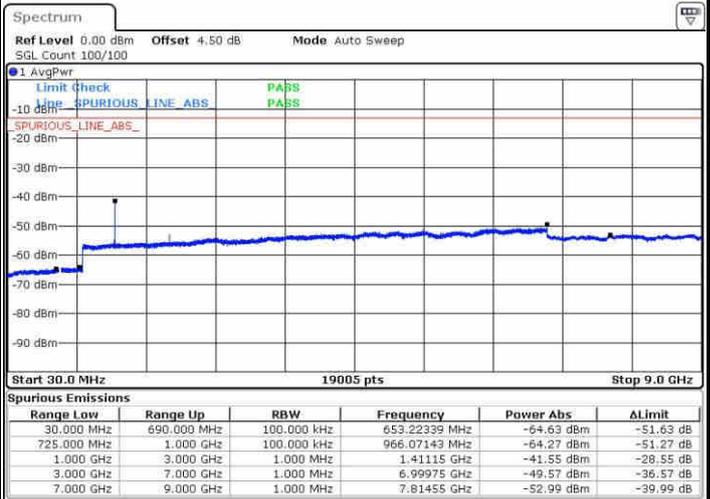


Date: 3 JUL 2016 05:56:48

Date: 3 JUL 2016 05:57:44

Middle Channel / QPSK

Middle Channel / 16QAM



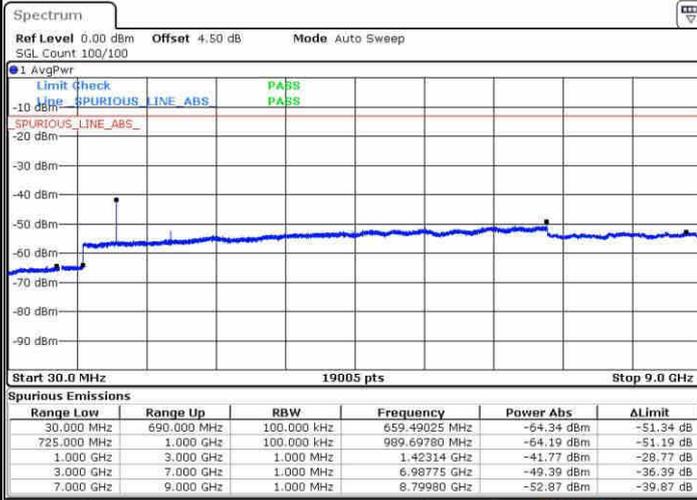
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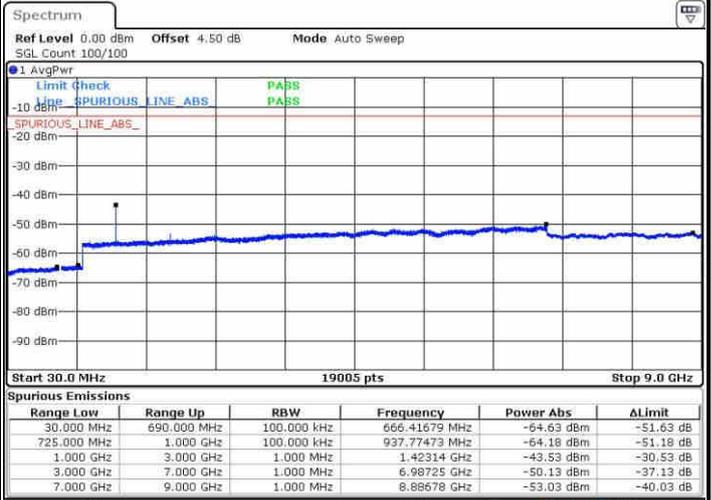
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 3 JUL 2016 06:00:30

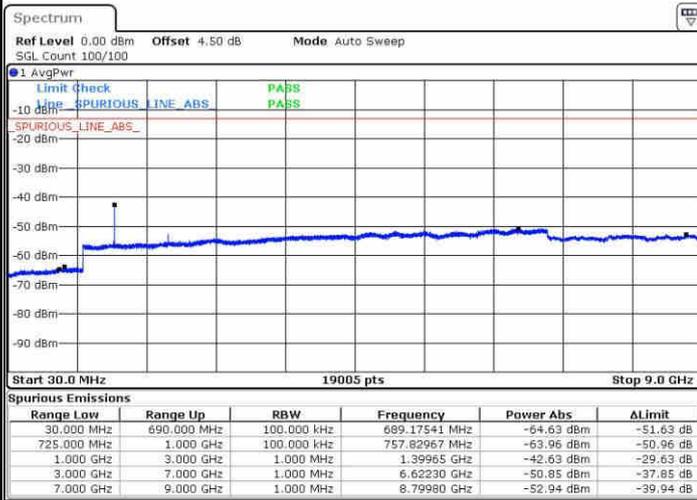
Highest Channel / 16QAM



Date: 3 JUL 2016 06:01:25

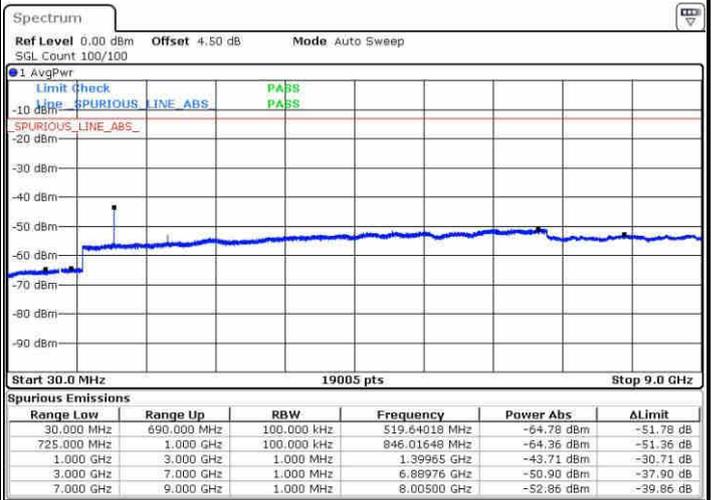
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 3 JUL 2016 06:29:54

Lowest Channel / 16QAM



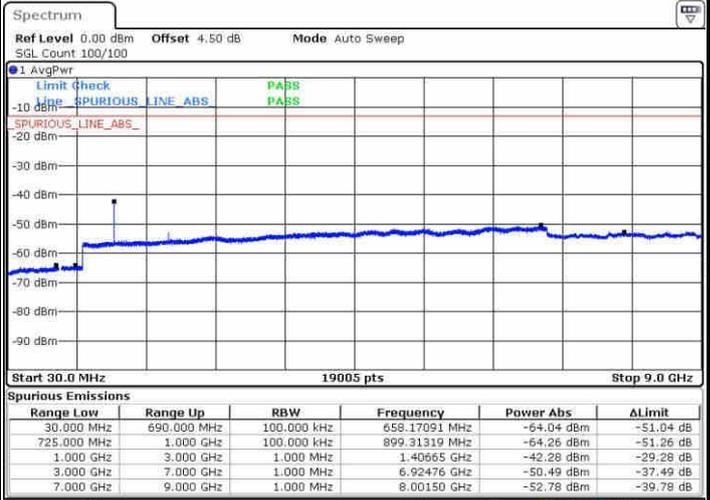
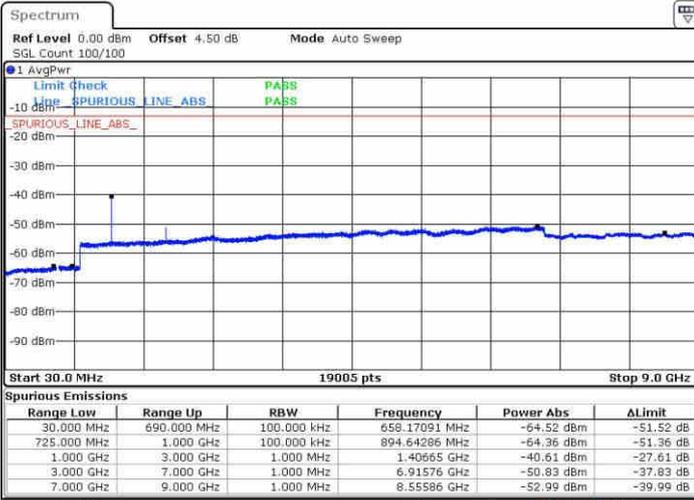
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LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

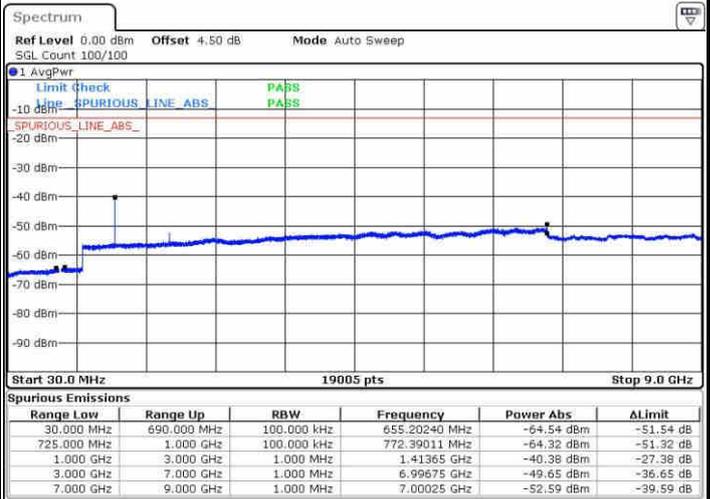
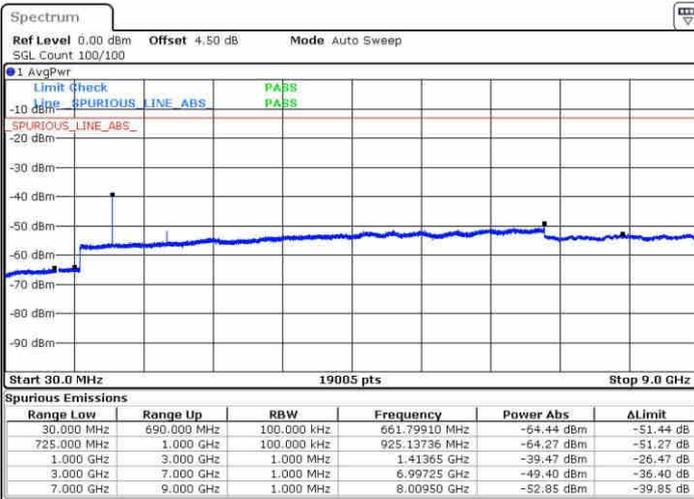


Date: 3 JUL 2016 06:32:39

Date: 3 JUL 2016 06:31:44

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 3 JUL 2016 06:33:35

Date: 3 JUL 2016 06:34:30



Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0031	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.7V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0075	
0	Normal Voltage	0.0095	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0081	
20	Battery End Point	0.0027	

Note:

1. Normal Voltage =3.7 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.2V.
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	3	25.02	0.3177	25.17	0.3285
Middle		3	3	26.53	0.4503	26.97	0.4976
Highest		3	0	24.62	0.2897	24.92	0.3108
Lowest	16QAM	1	5	24.44	0.2782	24.61	0.2889
Middle		1	3	25.42	0.3486	25.85	0.3850
Highest		1	3	23.61	0.2296	23.94	0.2479
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	0	24.79	0.3013	24.92	0.3105
Middle		1	0	25.95	0.3932	26.43	0.4391
Highest		1	0	24.49	0.2812	24.72	0.2965
Lowest	16QAM	1	0	24.30	0.2692	24.79	0.3013
Middle		1	0	25.66	0.3682	25.74	0.3753
Highest		1	0	23.19	0.2084	24.51	0.2825
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	12	24.64	0.2909	24.83	0.3041
Middle		1	12	26.05	0.4029	26.45	0.4411
Highest		1	12	24.40	0.2757	24.82	0.3036
Lowest	16QAM	1	12	24.14	0.2594	24.37	0.2735
Middle		1	12	25.85	0.3846	25.53	0.3573
Highest		1	0	23.77	0.2384	24.37	0.2734
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	25	24.88	0.3076	25.00	0.3162
Middle		1	25	25.80	0.3804	26.20	0.4173
Highest		1	25	24.93	0.3112	25.02	0.3177
Lowest	16QAM	1	25	24.44	0.2780	24.03	0.2529
Middle		1	25	25.88	0.3874	25.82	0.3818
Highest		1	25	23.81	0.2404	23.65	0.2317
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	37	24.87	0.3072	25.05	0.3199
Middle		1	37	26.05	0.4026	26.45	0.4414
Highest		1	0	24.91	0.3101	25.46	0.3514
Lowest	16QAM	1	0	24.49	0.2814	24.62	0.2900
Middle		1	0	25.23	0.3335	25.55	0.3586
Highest		1	0	24.46	0.2796	25.00	0.3160
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	49	24.94	0.3116	25.09	0.3227
Middle		1	49	26.32	0.4288	26.73	0.4712
Highest		1	49	24.80	0.3017	25.21	0.3317
Lowest	16QAM	1	0	24.64	0.2908	24.77	0.3002
Middle		1	99	25.71	0.3727	26.14	0.4110
Highest		1	0	24.76	0.2994	25.20	0.3314
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	3	1	22.94	0.1969	22.19	0.1654
Middle		3	1	23.24	0.2108	23.35	0.2161
Highest		3	1	22.96	0.1977	22.94	0.1968
Lowest	16QAM	3	3	22.13	0.1635	21.28	0.1341
Middle		3	1	22.90	0.1952	21.57	0.1437
Highest		3	1	22.52	0.1788	21.84	0.1529
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	0	22.82	0.1915	22.26	0.1683
Middle		1	8	23.34	0.2160	23.18	0.2082
Highest		1	0	22.90	0.1950	22.79	0.1900
Lowest	16QAM	1	0	21.68	0.1472	20.74	0.1186
Middle		1	0	22.17	0.1647	22.49	0.1776
Highest		1	14	21.99	0.1579	22.34	0.1713
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	22.99	0.1990	22.05	0.1601
Middle		1	12	23.58	0.2279	23.35	0.2164
Highest		1	24	22.96	0.1977	22.68	0.1853
Lowest	16QAM	1	0	21.88	0.1540	22.11	0.1625
Middle		1	0	22.35	0.1717	22.34	0.1714
Highest		1	0	21.82	0.1520	22.17	0.1648
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	22.82	0.1914	22.12	0.1629
Middle		1	0	23.57	0.2273	23.26	0.2116
Highest		1	49	23.32	0.2145	23.20	0.2090
Lowest	16QAM	1	0	22.52	0.1786	21.84	0.1528
Middle		1	0	22.32	0.1706	22.12	0.1629
Highest		1	49	22.22	0.1667	21.89	0.1545
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	0	23.19	0.2083	22.11	0.1625
Middle		1	0	23.62	0.2300	22.87	0.1938
Highest		1	0	23.49	0.2234	22.90	0.1950
Lowest	16QAM	1	0	22.24	0.1675	21.63	0.1455
Middle		1	0	22.54	0.1795	22.30	0.1698
Highest		1	0	22.43	0.1750	22.28	0.1690
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	0	22.68	0.1855	22.32	0.1706
Middle		1	0	23.18	0.2079	22.84	0.1923
Highest		1	0	23.30	0.2140	23.39	0.2182
Lowest	16QAM	1	0	22.44	0.1754	21.23	0.1327
Middle		1	0	22.68	0.1854	21.50	0.1413
Highest		1	0	23.19	0.2085	21.83	0.1524
Limit	EIRP < 1W			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	3	19.48	0.0887	0.03	0.0010
Middle		3	1	19.05	0.0803	4.04	0.0025
Highest		3	1	19.82	0.0960	6.66	0.0046
Lowest	16QAM	3	1	18.98	0.0790	-0.60	0.0009
Middle		1	3	18.11	0.0647	3.07	0.0020
Highest		3	3	19.10	0.0812	5.64	0.0037
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	0	19.18	0.0828	-0.20	0.0010
Middle		1	0	18.99	0.0792	3.15	0.0021
Highest		1	14	20.00	0.0999	7.07	0.0051
Lowest	16QAM	1	8	18.48	0.0705	-0.04	0.0010
Middle		1	8	17.95	0.0624	2.91	0.0020
Highest		1	0	18.52	0.0711	5.74	0.0038
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	12	19.19	0.0830	0.66	0.0012
Middle		1	12	18.93	0.0781	3.59	0.0023
Highest		1	24	19.27	0.0846	6.02	0.0040
Lowest	16QAM	1	24	18.31	0.0677	1.08	0.0013
Middle		1	12	18.28	0.0673	3.21	0.0021
Highest		1	12	18.92	0.0779	6.13	0.0041
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	25	18.99	0.0793	1.33	0.0014
Middle		1	25	19.00	0.0794	3.65	0.0023
Highest		1	25	18.89	0.0774	5.16	0.0033
Lowest	16QAM	1	49	18.81	0.0760	0.76	0.0012
Middle		1	0	18.17	0.0656	0.77	0.0012
Highest		1	25	18.53	0.0713	4.98	0.0031
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	3758.92	-48.29	-13	-35.29	-61.84	-54.33	6.56	12.60	H
	5638.38	-41.26	-13	-28.26	-57.20	-46.36	8	13.10	H
	7517.84	-46.78	-13	-33.78	-65.52	-48.51	9.57	11.30	H
	3758.92	-45.14	-13	-32.14	-58.49	-51.18	6.56	12.6	V
	5638.38	-43.72	-13	-30.72	-61.07	-48.82	8	13.1	V
	7517.84	-48.47	-13	-35.47	-66.87	-50.20	9.57	11.3	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	3757.48	-46.46	-13	-33.46	-60.01	-52.50	6.56	12.60	H
	5636.22	-44.73	-13	-31.73	-60.67	-49.83	8	13.10	H
	7514.96	-45.74	-13	-32.74	-64.48	-47.47	9.57	11.30	H
	3757.48	-49.08	-13	-36.08	-62.43	-55.12	6.56	12.6	V
	5636.22	-38.90	-13	-25.90	-56.57	-44.00	8	13.1	V
	7514.96	-48.27	-13	-35.27	-66.67	-50.00	9.57	11.3	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	3755.68	-45.31	-13	-32.31	-58.86	-51.35	6.56	12.60	H
	5633.52	-43.67	-13	-30.67	-59.61	-48.77	8	13.10	H
	7511.36	-47.33	-13	-34.33	-66.07	-49.06	9.57	11.30	H
	3755.68	-49.33	-13	-36.33	-62.68	-55.37	6.56	12.6	V
	5633.52	-42.38	-13	-29.38	-59.73	-47.48	8	13.1	V
	7511.36	-46.21	-13	-33.21	-64.61	-47.94	9.57	11.3	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	3751	-47.19	-13	-34.19	-60.74	-53.23	6.56	12.60	H
	5626.5	-45.24	-13	-32.24	-61.18	-50.34	8	13.10	H
	7502.36	-46.29	-13	-33.29	-65.03	-48.02	9.57	11.30	H
	3751	-46.67	-13	-33.67	-60.02	-52.71	6.56	12.6	V
	5626.5	-44.14	-13	-31.14	-61.49	-49.24	8	13.1	V
	7502.36	-49.44	-13	-36.44	-67.84	-51.17	9.57	11.3	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	3746.68	-48.04	-13	-35.04	-61.59	-54.08	6.56	12.60	H
	5620.02	-43.85	-13	-30.85	-59.79	-48.95	8	13.10	H
	7493.36	-45.73	-13	-32.73	-64.47	-47.46	9.57	11.30	H
	3746.68	-48.48	-13	-35.48	-61.83	-54.52	6.56	12.6	V
	5620.02	-42.53	-13	-29.53	-59.88	-47.63	8	13.1	V
	7493.36	-46.99	-13	-33.99	-65.39	-48.72	9.57	11.3	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	3742.18	-46.53	-13	-33.53	-60.08	-52.57	6.56	12.60	H
	5613.27	-45.49	-13	-32.49	-61.43	-50.59	8	13.10	H
	7484.36	-47.95	-13	-34.95	-66.69	-49.68	9.57	11.30	H
	3742.18	-48.68	-13	-35.68	-62.03	-54.72	6.56	12.6	V
	5613.27	-43.88	-13	-30.88	-61.23	-48.98	8	13.1	V
	7484.36	-49.03	-13	-36.03	-67.43	-50.76	9.57	11.3	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	3463.74	-43.99	-13	-30.99	-58.74	-50.41	6.18	12.60	H
	5195.61	-48.33	-13	-35.33	-66.33	-53.29	7.74	12.70	H
	6927.48	-48.31	-13	-35.31	-67.12	-51.01	9	11.70	H
	3463.74	-47.45	-13	-34.45	-58.4	-53.87	6.18	12.60	V
	5195.61	-53.24	-13	-40.24	-66.24	-58.20	7.74	12.70	V
	6927.48	-51.14	-13	-38.14	-67.85	-53.84	9	11.70	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	3462.48	-43.06	-13	-30.06	-57.81	-49.48	6.18	12.60	H
	5193.72	-47.39	-13	-34.39	-65.39	-52.35	7.74	12.70	H
	6924.96	-48.11	-13	-35.11	-66.92	-50.81	9	11.70	H
	3462.48	-48.49	-13	-35.49	-59.44	-54.91	6.18	12.60	V
	5193.72	-54.45	-13	-41.45	-67.45	-59.41	7.74	12.70	V
	6924.96	-51.11	-13	-38.11	-67.82	-53.81	9	11.70	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	3460.68	-42.92	-13	-29.92	-57.67	-49.34	6.18	12.60	H
	5191.02	-43.55	-13	-30.55	-61.55	-48.51	7.74	12.70	H
	6921.36	-48.00	-13	-35.00	-66.81	-50.70	9	11.70	H
	3460.68	-47.51	-13	-34.51	-58.46	-53.93	6.18	12.60	V
	5191.02	-50.29	-13	-37.29	-63.29	-55.25	7.74	12.70	V
	6921.36	-51.58	-13	-38.58	-68.29	-54.28	9	11.70	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	3456.18	-44.65	-13	-31.65	-59.40	-51.07	6.18	12.60	H
	5184.27	-42.36	-13	-29.36	-60.36	-47.32	7.74	12.70	H
	6912.36	-49.25	-13	-36.25	-68.06	-51.95	9	11.70	H
	3456.18	-49.23	-13	-36.23	-60.18	-55.65	6.18	12.60	V
	5184.27	-48.49	-13	-35.49	-61.49	-53.45	7.74	12.70	V
	6912.36	-49.67	-13	-36.67	-66.38	-52.37	9	11.70	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	3451.68	-43.29	-13	-30.29	-58.04	-49.71	6.18	12.60	H
	5177.52	-43.05	-13	-30.05	-61.05	-48.01	7.74	12.70	H
	6903.36	-48.55	-13	-35.55	-67.36	-51.25	9	11.70	H
	3451.68	-46.45	-13	-33.45	-57.77	-52.87	6.18	12.60	V
	5177.52	-49.01	-13	-36.01	-62.01	-53.97	7.74	12.70	V
	6903.36	-51.75	-13	-38.75	-68.46	-54.45	9	11.70	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	3447.18	-44.27	-13	-31.27	-59.02	-50.69	6.18	12.60	H
	5170.77	-40.27	-13	-27.27	-58.27	-45.23	7.74	12.70	H
	6894.36	-47.92	-13	-34.92	-66.73	-50.62	9	11.70	H
	3447.18	-48.42	-13	-35.42	-59.37	-54.84	6.18	12.60	V
	5170.77	-46.46	-13	-33.46	-59.47	-51.42	7.74	12.70	V
	6894.36	-50.41	-13	-37.41	-67.12	-53.11	9	11.70	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	1413.74	-57.44	-13	-44.44	-60.27	-64.13	0.56	9.40	H
	2120.61	-56.31	-13	-43.31	-62.05	-64.02	0.74	10.60	H
	2827.48	-57.64	-13	-44.64	-66.45	-67.24	0.85	12.60	H
	1413.74	-58.63	-13	-45.63	-60.29	-65.32	0.56	9.40	V
	2120.61	-55.94	-13	-42.94	-61.52	-63.65	0.74	10.60	V
	2827.48	-58.34	-13	-45.34	-66.48	-67.94	0.85	12.60	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	1412.3	-58.64	-13	-45.64	-61.47	-65.33	0.56	9.40	H
	2118.45	-54.15	-13	-41.15	-59.89	-61.86	0.74	10.60	H
	2824.6	-58.06	-13	-45.06	-66.87	-67.66	0.85	12.60	H
	1412.3	-59.22	-13	-46.22	-60.88	-65.91	0.56	9.40	V
	2118.45	-57.57	-13	-44.57	-63.15	-65.28	0.74	10.60	V
	2824.6	-58.34	-13	-45.34	-66.48	-67.94	0.85	12.60	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	1410.5	-60.39	-13	-47.39	-63.22	-67.08	0.56	9.40	H
	2115.75	-59.07	-13	-46.07	-64.81	-66.78	0.74	10.60	H
	2821	-57.87	-13	-44.87	-66.68	-67.47	0.85	12.60	H
	1410.5	-62.82	-13	-49.82	-64.48	-69.51	0.56	9.40	V
	2115.75	-60.99	-13	-47.99	-66.57	-68.70	0.74	10.60	V
	2821	-59.20	-13	-46.20	-67.34	-68.80	0.85	12.60	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	-52.86	-13	-39.86	-55.79	-59.55	0.56	9.40	H
	2109	-60.38	-13	-47.38	-66.12	-68.09	0.74	10.60	H
	2812	-58.24	-13	-45.24	-67.05	-67.84	0.85	12.60	H
	1406	-58.01	-13	-45.01	-59.67	-64.70	0.56	9.40	V
	2109	-59.82	-13	-46.82	-65.40	-67.53	0.74	10.60	V
	2812	-59.13	-13	-46.13	-67.27	-68.73	0.85	12.60	V

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



Appendix D. Product Equality Description

ZTE CORPORATION**Product Change Description**

As the applicant of the below model, [ZTE Corporation] declares that the product,

[Z232TL]

[ZTE Corporation]

FCC ID: SRQ-Z232TL

HW: Z232TLHWV1.0

is the variant of the initial certified product,

[Z320]

[ZTE Corporation]

[Project Number:16ZTE013]

FCC ID: SRQ-Z320

HW: u79B

SOFTWARE MODIFICATIONS:

Protocol Stack changes: NO

MMS/STK changes: NO

JAVA changes: NO

Other changes detailed: Yes, different app setup and different software requirements for new carrier. But all these differences have no impact on RF performance or CTIA 1725.

And Z232TL updated hardware version number from u79B to Z232TLHWV1.0, this is only HW number update by following carrier's requirement. Actually, nothing different between them.

HARDWARE MODIFICATION:

Band changes: NO

Power Amplifier changes: NO
Antenna changes: NO
PCB Layout changes: NO
Components on PCB changes: NO
LCD changes: NO
Speaker changes: NO
Camera changes: NO
Vibrator changes: NO
Bluetooth changes: NO
FM changes: NO
Other changes: NO

MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: NO
Mechanical shell changes: NO
Other changes detailed: NO

ACCESSORY MODIFICATIONS:

Battery changes: NO
AC Adaptor changes: NO
Earphone changes: NO



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