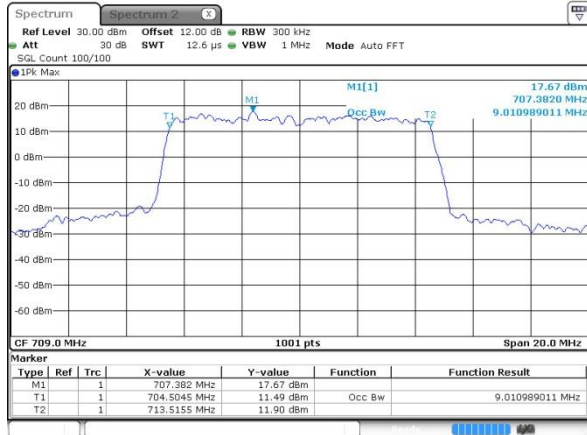




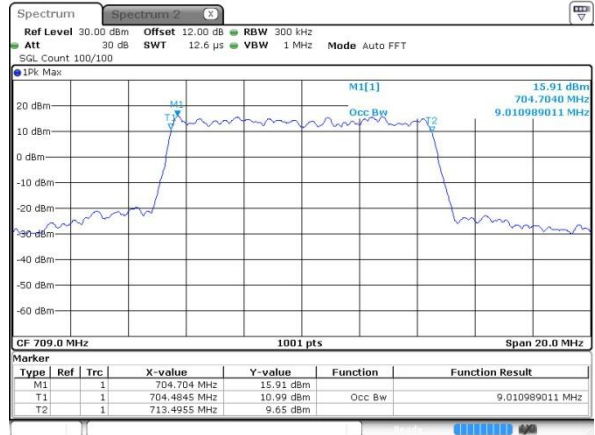
LTE Band 17

Lowest Channel / 10MHz / QPSK



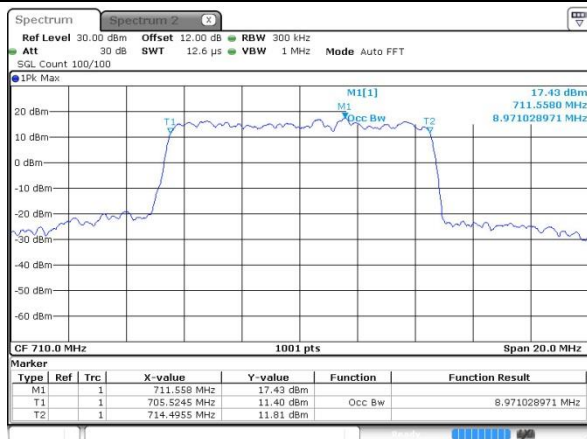
Date: 28 AUG 2015 20:10:28

Lowest Channel / 10MHz / 16QAM



Date: 28 AUG 2015 20:10:38

Middle Channel / 10MHz / QPSK



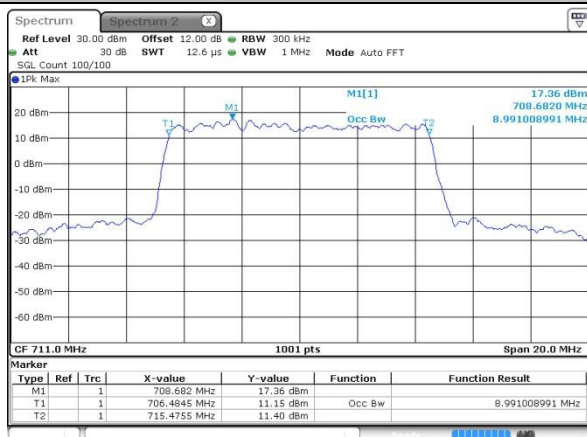
Date: 28 AUG 2015 20:20:38

Middle Channel / 10MHz / 16QAM



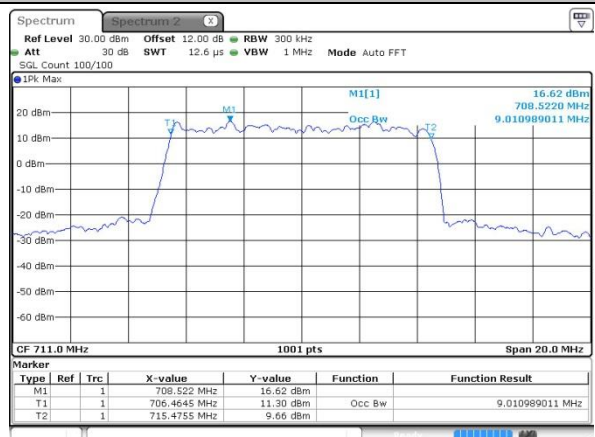
Date: 28 AUG 2015 20:20:46

Highest Channel / 10MHz / QPSK



Date: 28 AUG 2015 20:20:07

Highest Channel / 10MHz / 16QAM



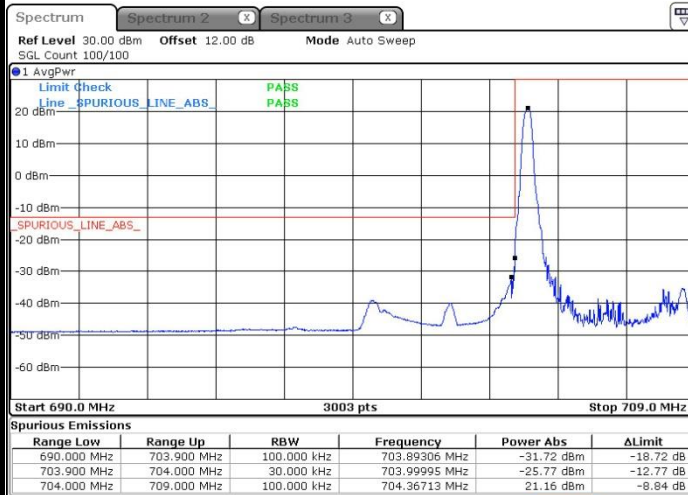
Date: 28 AUG 2015 20:23:17



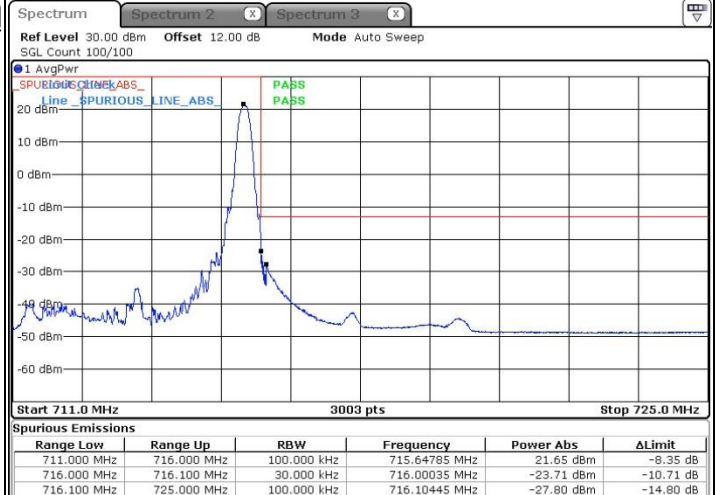
Conducted Band Edge

LTE Band 17 / 5MHz / QPSK

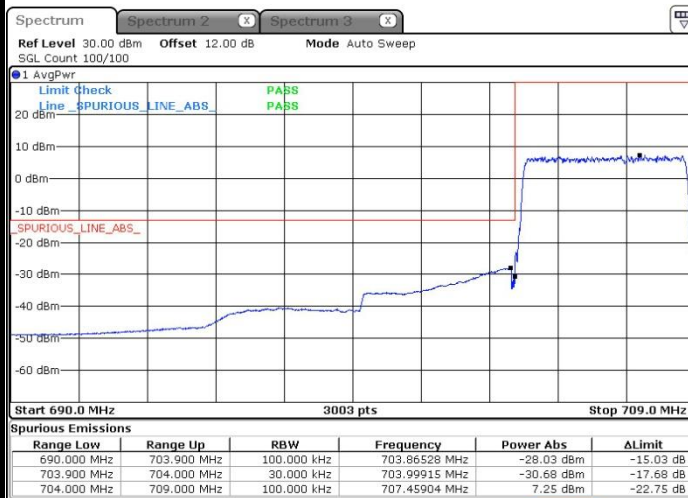
Lowest Band Edge / 1 RB



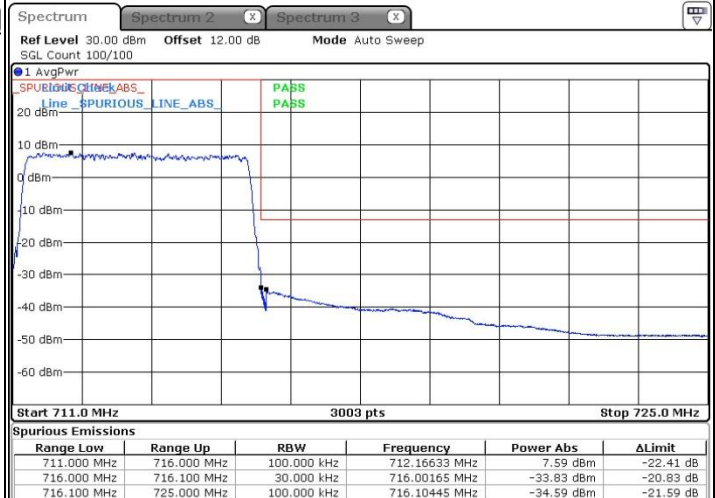
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



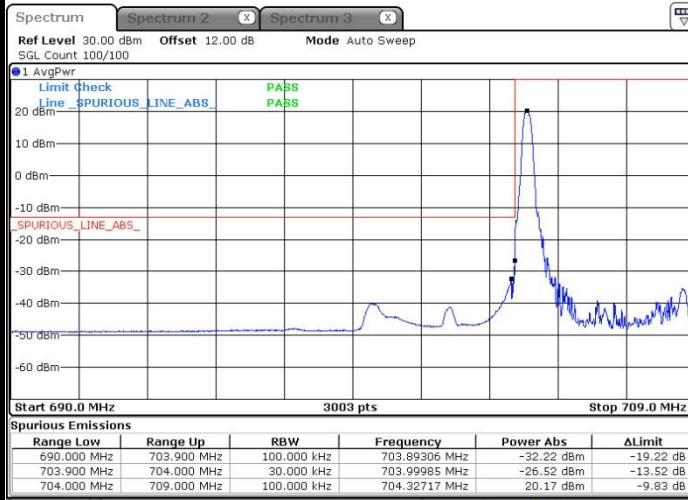
Highest Band Edge / Full RB



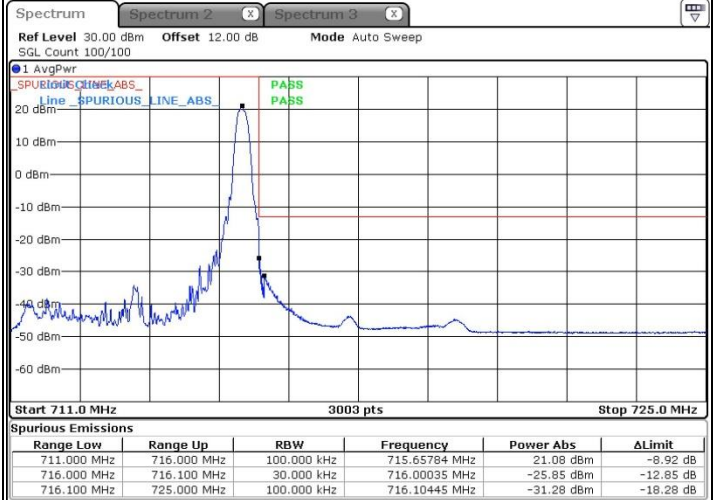


LTE Band 17 / 5MHz / 16QAM

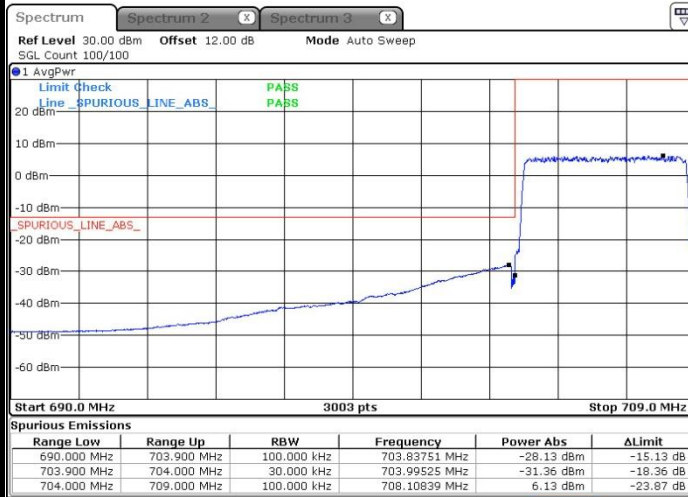
Lowest Band Edge / 1 RB



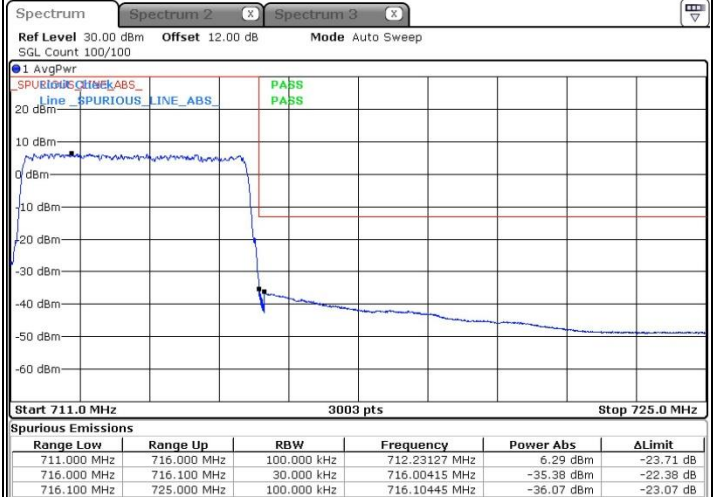
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



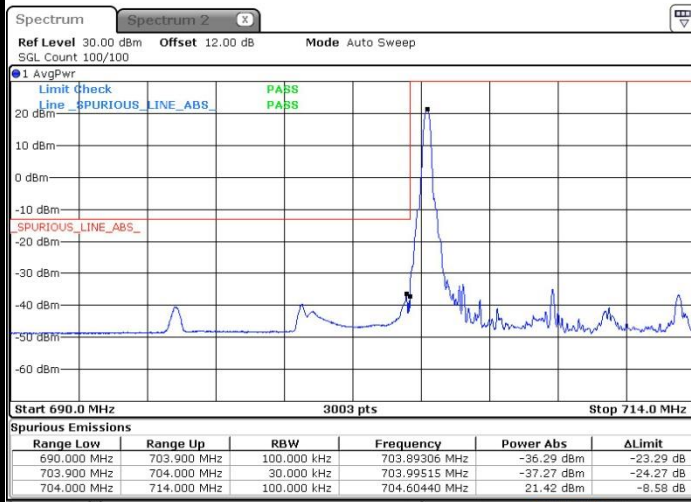
Highest Band Edge / Full RB



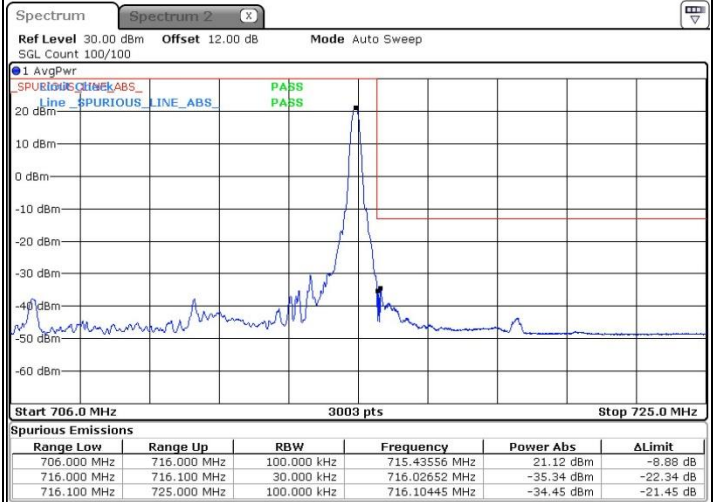


LTE Band 17 / 10MHz / QPSK

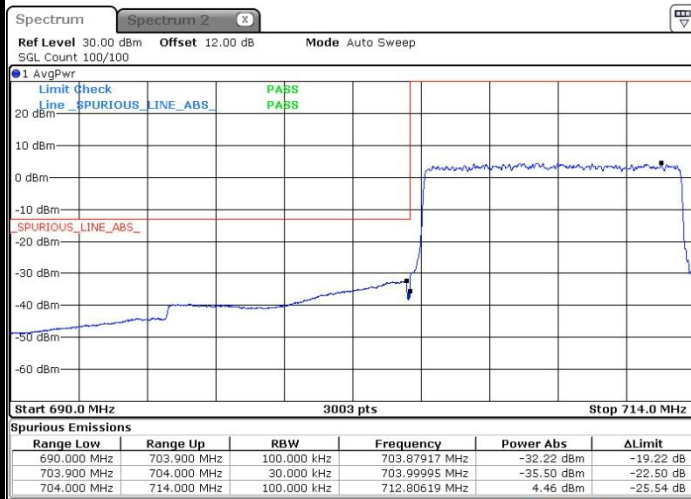
Lowest Band Edge / 1 RB



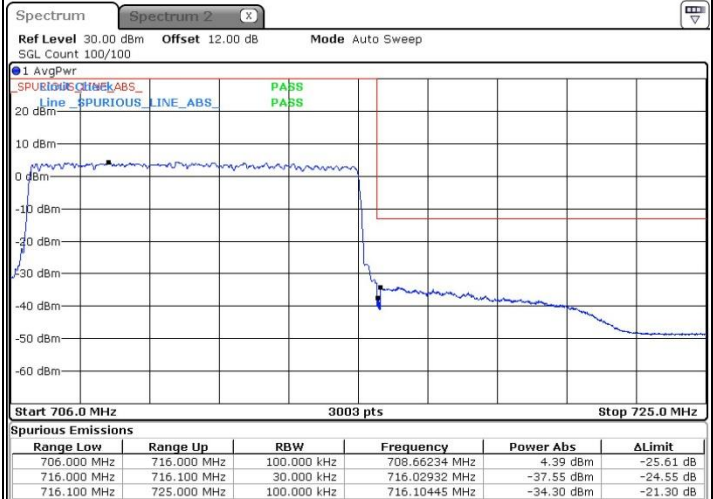
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



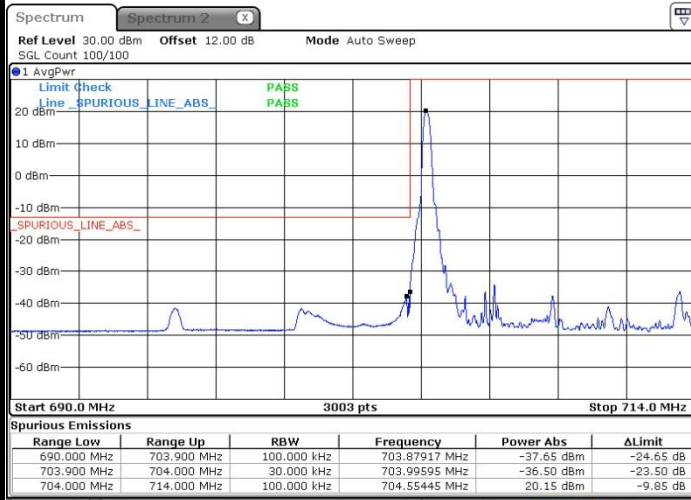
Highest Band Edge / Full RB



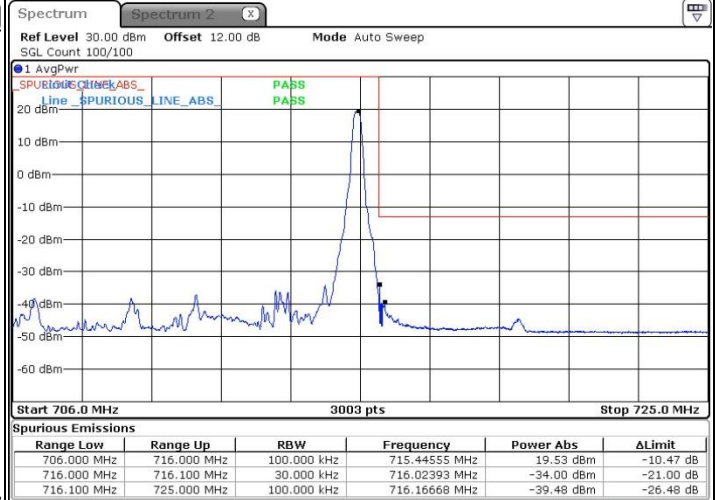


LTE Band 17 / 10MHz / 16QAM

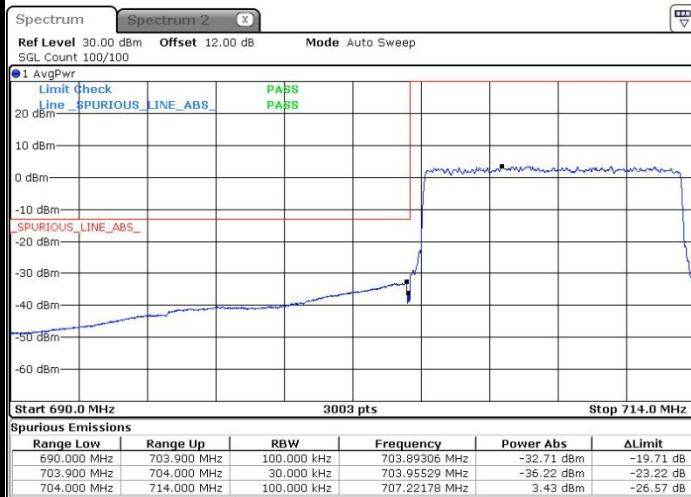
Lowest Band Edge / 1 RB



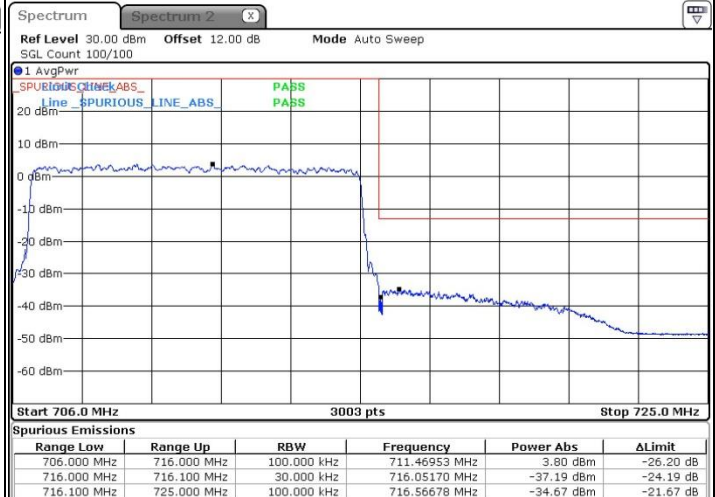
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

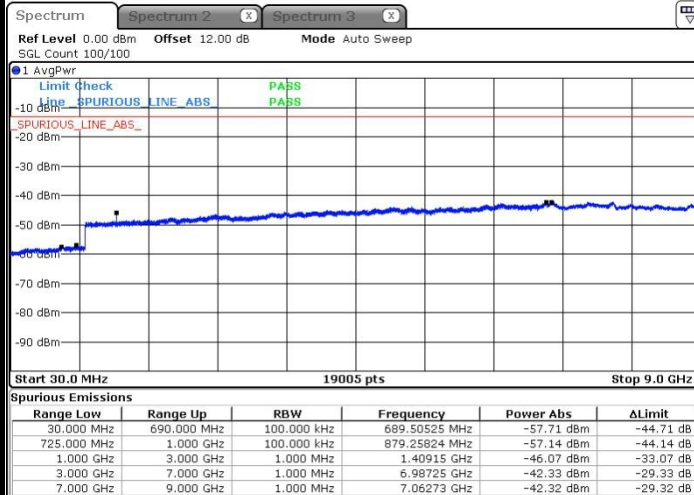




Conducted Spurious Emission

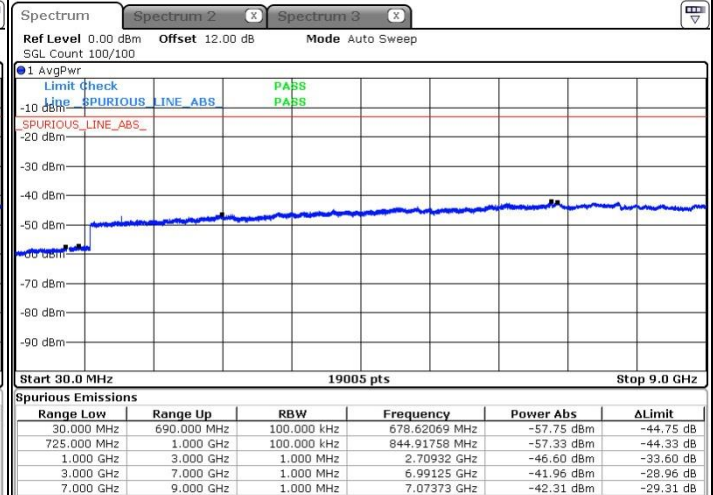
LTE Band 17 / 5MHz

Lowest Channel / QPSK



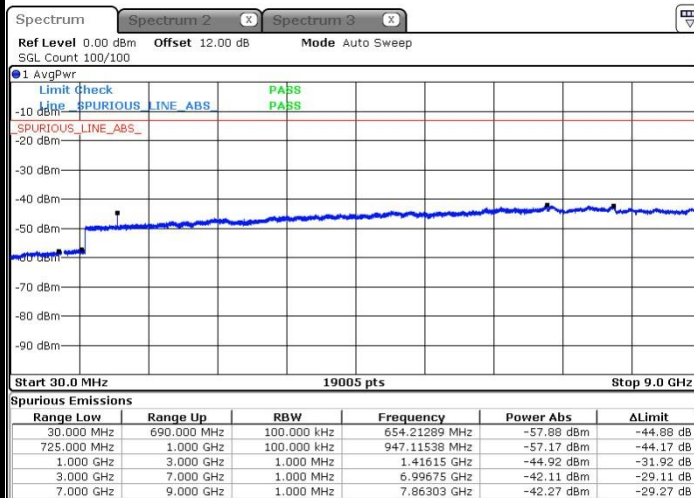
Date: 28 AUG.2015 01:30:07

Lowest Channel / 16QAM



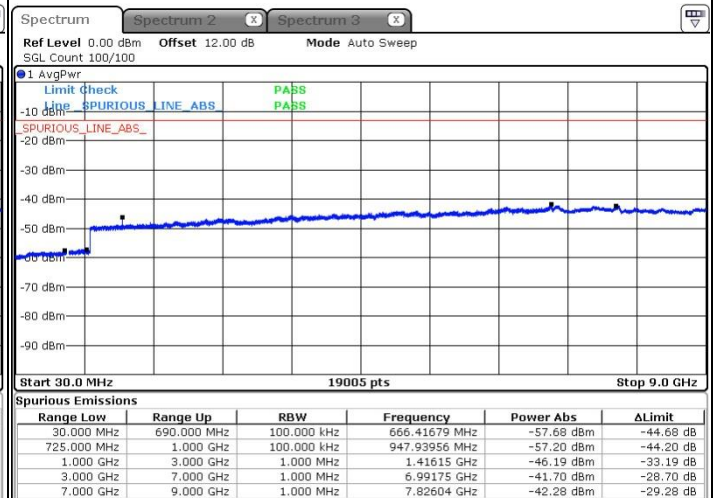
Date: 28 AUG.2015 01:31:02

Middle Channel / QPSK



Date: 28 AUG.2015 01:32:38

Middle Channel / 16QAM

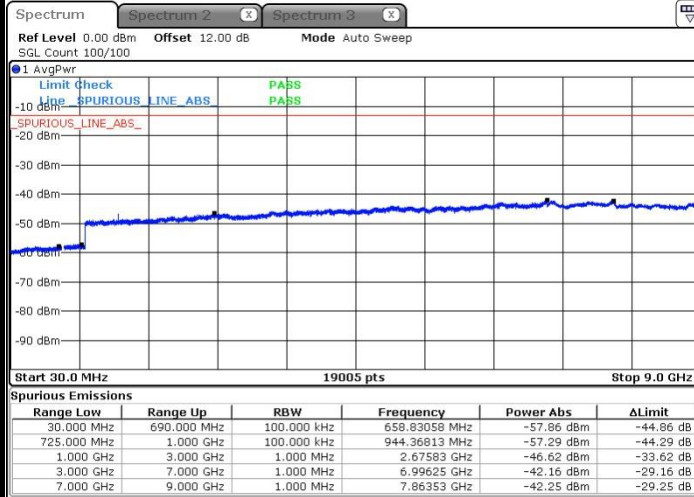


Date: 28 AUG.2015 01:33:33



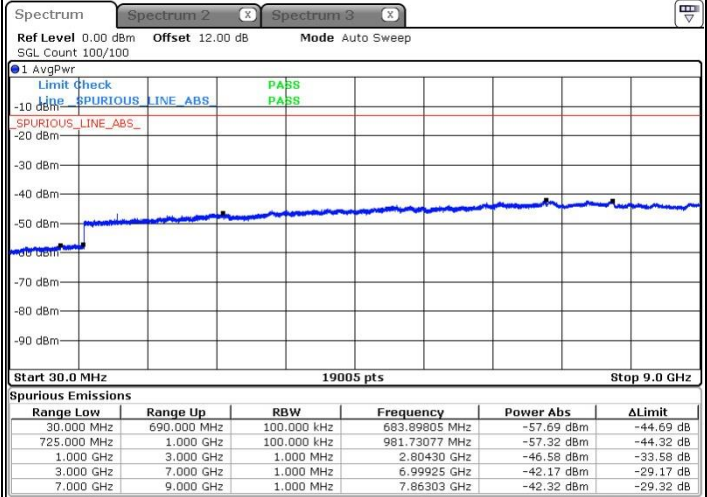
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 28 AUG 2015 01:42:47

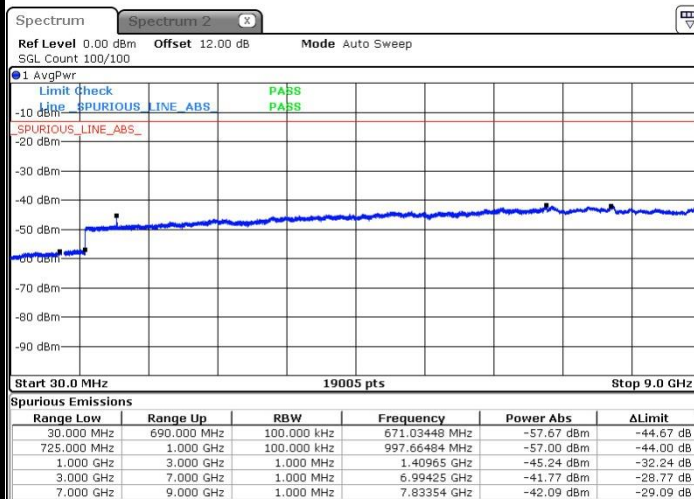
Highest Channel / 16QAM



Date: 28 AUG 2015 01:43:41

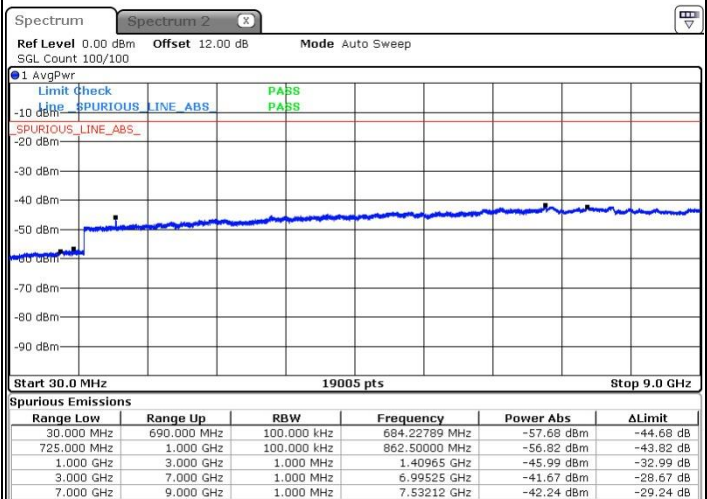
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 28 AUG 2015 20:19:31

Lowest Channel / 16QAM

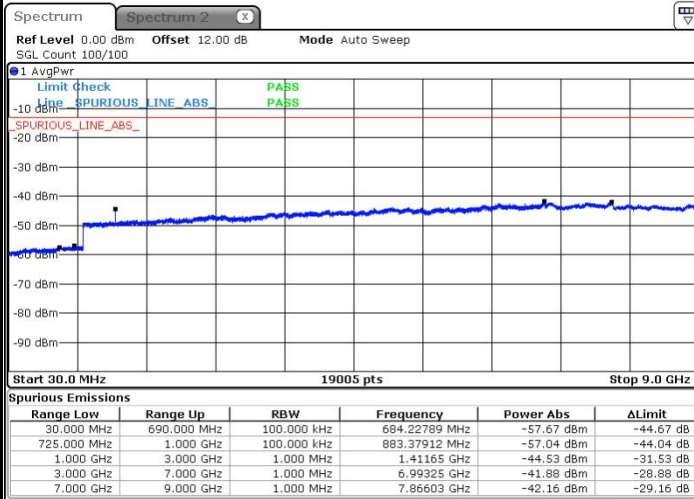


Date: 28 AUG 2015 20:20:25



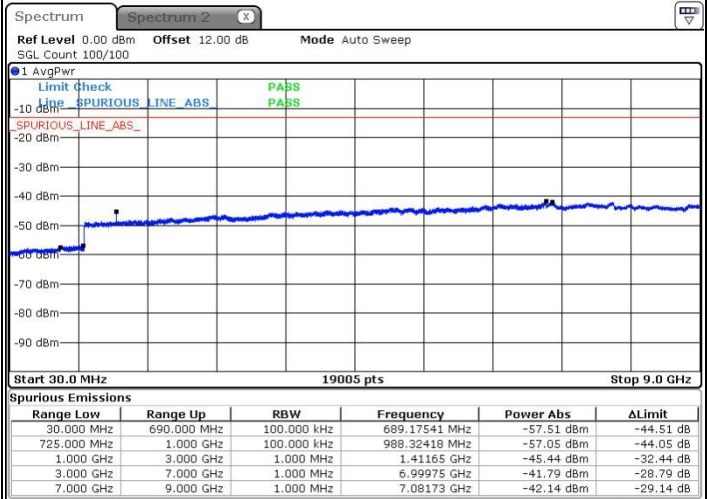
LTE Band 17 / 10MHz

Middle Channel / QPSK



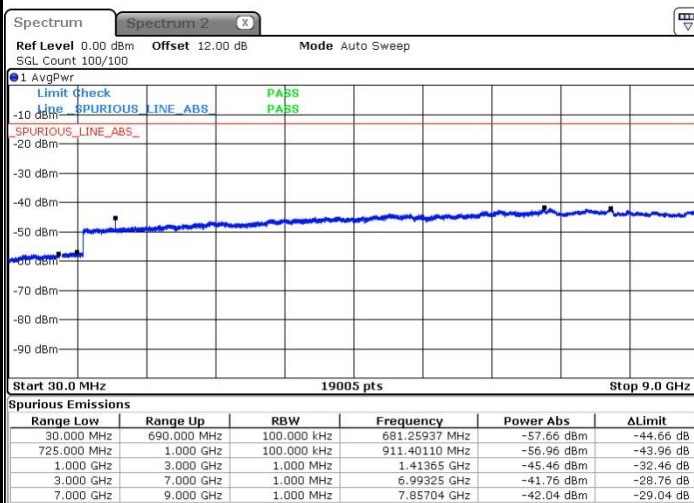
Date: 28 AUG 2015 20:22:02

Middle Channel / 16QAM



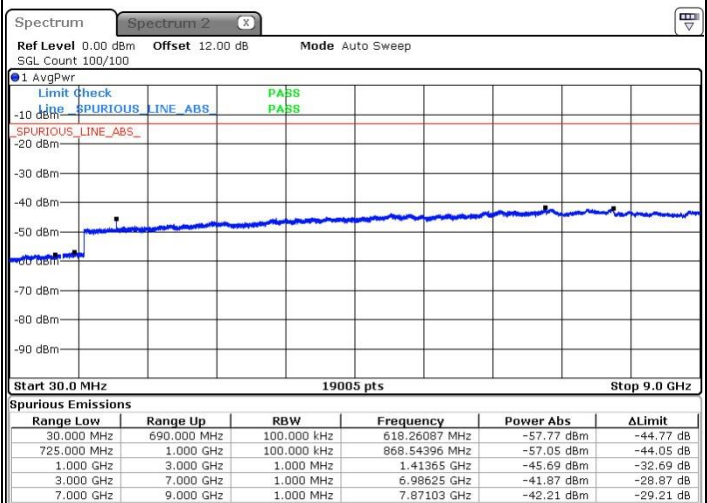
Date: 28 AUG 2015 20:22:56

Highest Channel / QPSK



Date: 28 AUG 2015 20:32:10

Highest Channel / 16QAM



Date: 28 AUG 2015 20:33:04

Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0062	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0080	
0	Normal Voltage	0.0083	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0061	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block..



Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 7 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.49	0.0889	13.38	0.0218
Middle		1	0	19.72	0.0938	13.60	0.0229
Highest		1	0	20.05	0.1012	14.72	0.0296
Lowest	16QAM	1	0	19.32	0.0855	13.34	0.0216
Middle		1	0	19.43	0.0877	14.42	0.0277
Highest		1	0	19.62	0.0916	15.09	0.0323
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.39	0.0869	13.90	0.0245
Middle		1	0	19.49	0.0889	14.83	0.0304
Highest		1	0	19.59	0.0910	15.58	0.0361
Lowest	16QAM	1	0	19.28	0.0847	13.37	0.0217
Middle		1	0	19.52	0.0895	14.35	0.0272
Highest		1	0	19.43	0.0877	15.36	0.0344
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 15MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.24	0.0839	13.47	0.0222
Middle		1	0	19.58	0.0908	14.52	0.0283
Highest		1	0	19.50	0.0891	15.56	0.0360
Lowest	16QAM	1	0	18.91	0.0778	12.96	0.0198
Middle		1	0	19.25	0.0841	13.94	0.0248
Highest		1	0	19.16	0.0824	15.08	0.0322
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	19.24	0.0839	13.76	0.0238
Middle		1	0	19.54	0.0899	14.21	0.0264
Highest		1	0	19.65	0.0923	15.32	0.0340
Lowest	16QAM	1	0	18.88	0.0773	13.27	0.0212
Middle		1	0	19.14	0.0820	13.64	0.0231
Highest		1	0	19.33	0.0857	14.89	0.0308
Limit	EIRP < 2W			Result		PASS	



LTE Band 17 / 5MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.54	0.0568	-2.25	0.0006
Middle		1	0	17.22	0.0527	-1.59	0.0007
Highest		1	0	17.34	0.0542	-1.46	0.0007
Lowest	16QAM	1	12	16.64	0.0461	-2.54	0.0006
Middle		1	12	16.52	0.0449	-2.09	0.0006
Highest		1	12	16.83	0.0482	-1.34	0.0007
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	17.54	0.0568	-2.03	0.0006
Middle		1	0	17.60	0.0575	-1.67	0.0007
Highest		1	0	17.61	0.0577	-1.47	0.0007
Lowest	16QAM	1	25	16.58	0.0455	-2.22	0.0006
Middle		1	25	16.56	0.0453	-2.11	0.0006
Highest		1	25	16.49	0.0446	-2.06	0.0006
Limit	ERP < 3W			Result		PASS	

**Radiated Spurious Emission**

LTE Band 7 / 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)
Lowest	5004	-54.03	-25	-29.03	-76.85	-61.39	2.34	9.70	H
	7500	-47.66	-25	-22.66	-76.37	-57.03	2.43	11.80	H
	9996	-45.82	-25	-20.82	-77.32	-55.33	2.70	12.20	H
	5004	-55.40	-25	-30.40	-76.79	-62.76	2.34	9.70	V
	7500	-47.84	-25	-22.84	-76.25	-57.21	2.43	11.80	V
	9996	-47.51	-25	-22.51	-77.29	-57.02	2.70	12.20	V
Middle	5064	-53.55	-25	-28.55	-76.31	-60.88	2.37	9.70	H
	7596	-48.08	-25	-23.08	-76.52	-57.54	2.40	11.86	H
	10128	-45.66	-25	-20.66	-77.23	-55.22	2.70	12.25	H
	5064	-54.77	-25	-29.77	-76.39	-62.1	2.37	9.70	V
	7596	-48.43	-25	-23.43	-76.42	-57.89	2.40	11.86	V
	10128	-47.04	-25	-22.04	-77.31	-56.6	2.70	12.25	V
Highest	5130	-53.77	-25	-28.77	-76.56	-61.06	2.41	9.70	H
	7692	-47.47	-25	-22.47	-75.86	-57.02	2.37	11.92	H
	10260	-45.07	-25	-20.07	-76.7	-54.68	2.69	12.30	H
	5130	-54.42	-25	-29.42	-76.39	-61.71	2.41	9.70	V
	7692	-47.96	-25	-22.96	-75.84	-57.51	2.37	11.92	V
	10260	-46.34	-25	-21.34	-76.75	-55.95	2.69	12.30	V

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



LTE Band 7 / 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)
Lowest	5004	-53.82	-25	-28.82	-76.71	-61.18	2.34	9.70	H
	7500	-48.08	-25	-23.08	-76.88	-57.45	2.43	11.80	H
	10000	-46.28	-25	-21.28	-77.9	-55.78	2.70	12.20	H
	5004	-55.13	-25	-30.13	-76.58	-62.49	2.34	9.70	V
	7500	-48.29	-25	-23.29	-76.73	-57.66	2.43	11.80	V
	10000	-47.89	-25	-22.89	-77.8	-57.39	2.70	12.20	V
Middle	5064	-53.20	-25	-28.20	-76.04	-60.53	2.37	9.70	H
	7590	-48.22	-25	-23.22	-76.68	-57.67	2.40	11.85	H
	10116	-46.45	-25	-21.45	-78.1	-56	2.70	12.25	H
	5064	-54.87	-25	-29.87	-76.53	-62.2	2.37	9.70	V
	7590	-48.75	-25	-23.75	-76.77	-58.2	2.40	11.85	V
	10120	-47.80	-25	-22.80	-78	-57.35	2.70	12.25	V
Highest	5124	-53.71	-25	-28.71	-76.53	-61	2.41	9.70	H
	7680	-47.68	-25	-22.68	-76.14	-57.22	2.37	11.91	H
	10240	-45.68	-25	-20.68	-77.36	-55.28	2.69	12.30	H
	5120	-54.60	-25	-29.60	-76.47	-61.89	2.41	9.70	V
	7680	-48.41	-25	-23.41	-76.36	-57.95	2.37	11.91	V
	10236	-47.01	-25	-22.01	-77.51	-56.61	2.69	12.29	V

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



LTE Band 7 / 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)
Lowest	5004	-53.95	-25	-28.95	-76.77	-61.31	2.34	9.70	H
	7500	-47.32	-25	-22.32	-76.18	-56.69	2.43	11.80	H
	9996	-45.72	-25	-20.72	-77.37	-55.23	2.70	12.20	H
	5004	-55.52	-25	-30.52	-76.86	-62.88	2.34	9.70	V
	7500	-48.02	-25	-23.02	-76.45	-57.39	2.43	11.80	V
	9996	-47.64	-25	-22.64	-77.51	-57.15	2.70	12.20	V
Middle	5052	-53.67	-25	-28.67	-76.47	-61	2.37	9.70	H
	7584	-47.64	-25	-22.64	-76.07	-57.09	2.40	11.85	H
	10104	-45.11	-25	-20.11	-76.62	-54.66	2.70	12.24	H
	5052	-54.79	-25	-29.79	-76.44	-62.12	2.37	9.70	V
	7584	-48.30	-25	-23.30	-76.17	-57.75	2.40	11.85	V
	10104	-46.94	-25	-21.94	-77.09	-56.49	2.70	12.24	V
Highest	5112	-54.07	-25	-29.07	-76.85	-61.37	2.40	9.70	H
	7668	-48.09	-25	-23.09	-76.5	-57.62	2.38	11.90	H
	10224	-45.39	-25	-20.39	-76.69	-54.98	2.69	12.29	H
	5112	-54.67	-25	-29.67	-76.48	-61.97	2.40	9.70	V
	7668	-48.48	-25	-23.48	-76.33	-58.01	2.38	11.90	V
	10224	-45.82	-25	-20.82	-76.33	-55.41	2.69	12.29	V

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



LTE Band 7 / 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)
Lowest	5004	-54.02	-25	-29.02	-76.86	-61.38	2.34	9.70	H
	7500	-47.62	-25	-22.62	-76.37	-56.99	2.43	11.80	H
	9996	-45.90	-25	-20.90	-77.55	-55.41	2.70	12.20	H
	5004	-55.43	-25	-30.43	-76.85	-62.79	2.34	9.70	V
	7500	-48.10	-25	-23.10	-76.49	-57.47	2.43	11.80	V
	9996	-47.52	-25	-22.52	-77.4	-57.03	2.70	12.20	V
Middle	5052	-53.99	-25	-28.99	-76.73	-61.32	2.37	9.70	H
	7572	-47.81	-25	-22.81	-76.27	-57.25	2.41	11.84	H
	10104	-45.53	-25	-20.53	-77.11	-55.08	2.70	12.24	H
	5052	-55.11	-25	-30.11	-76.72	-62.44	2.37	9.70	V
	7572	-48.12	-25	-23.12	-76.13	-57.56	2.41	11.84	V
	10104	-46.90	-25	-21.90	-77.12	-56.45	2.70	12.24	V
Highest	5100	-53.31	-25	-28.31	-76.1	-60.62	2.39	9.70	H
	7656	-47.98	-25	-22.98	-76.33	-57.49	2.38	11.89	H
	10200	-45.03	-25	-20.03	-76.69	-54.61	2.70	12.28	H
	5100	-54.22	-25	-29.22	-76.08	-61.53	2.39	9.70	V
	7656	-48.49	-25	-23.49	-76.35	-58	2.38	11.89	V
	10200	-46.52	-25	-21.52	-76.91	-56.1	2.70	12.28	V

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



LTE Band 17 / 5MHz / 16QAM / RB Size 25 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)
Lowest	1414	-63.57	-13	-50.57	-73.98	-65.31	0.87	4.77	H
	2119	-62.93	-13	-49.93	-75.89	-63.87	1.17	4.26	H
	2826	-60.98	-13	-47.98	-76.53	-63.10	1.39	5.66	H
	1413	-64.65	-13	-51.65	-74.18	-66.39	0.87	4.76	V
	2119	-62.06	-13	-49.06	-75.81	-63.00	1.17	4.26	V
	2826	-60.16	-13	-47.16	-76.59	-62.28	1.39	5.66	V
Middle	1420	-64.52	-13	-51.52	-74.86	-66.30	0.88	4.80	H
	2130	-63.11	-13	-50.11	-76.06	-64.08	1.17	4.29	H
	2840	-60.90	-13	-47.90	-76.53	-63.02	1.40	5.67	H
	1420	-65.72	-13	-52.72	-74.91	-67.50	0.88	4.80	V
	2130	-62.21	-13	-49.21	-76.00	-63.18	1.17	4.29	V
	2840	-60.40	-13	-47.40	-76.75	-62.52	1.40	5.67	V
Highest	1426	-63.60	-13	-50.60	-73.93	-65.41	0.88	4.84	H
	2140	-62.68	-13	-49.68	-75.87	-63.67	1.18	4.32	H
	2854	-60.87	-13	-47.87	-76.64	-63.00	1.40	5.68	H
	1426	-65.01	-13	-52.01	-74.17	-66.82	0.88	4.84	V
	2140	-61.59	-13	-48.59	-75.77	-62.58	1.18	4.32	V
	2854	-60.37	-13	-47.37	-76.71	-62.50	1.40	5.68	V

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



LTE Band 17 / 10MHz / 16QAM / RB Size 25 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)
Lowest	1417	-64.24	-13	-51.24	-74.55	-66.00	0.88	4.79	H
	2127	-63.14	-13	-50.14	-76.19	-64.10	1.17	4.28	H
	2836	-60.88	-13	-47.88	-76.56	-63.00	1.40	5.67	H
	1417	-65.24	-13	-52.24	-74.42	-67.00	0.88	4.79	V
	2127	-62.23	-13	-49.23	-76.02	-63.19	1.17	4.28	V
	2836	-60.17	-13	-47.17	-76.59	-62.29	1.40	5.67	V
Middle	1420	-64.52	-13	-51.52	-74.91	-66.30	0.88	4.80	H
	2130	-63.13	-13	-50.13	-76.07	-64.10	1.17	4.29	H
	2840	-61.00	-13	-48.00	-76.60	-63.12	1.40	5.67	H
	1420	-65.80	-13	-52.80	-74.98	-67.58	0.88	4.80	V
	2130	-62.13	-13	-49.13	-75.98	-63.10	1.17	4.29	V
	2840	-60.38	-13	-47.38	-76.77	-62.50	1.40	5.67	V
Highest	1423	-63.86	-13	-50.86	-74.22	-65.65	0.88	4.82	H
	2133	-62.73	-13	-49.73	-75.92	-63.70	1.18	4.30	H
	2844	-60.92	-13	-47.92	-76.55	-63.05	1.40	5.68	H
	1423	-65.31	-13	-52.31	-74.50	-67.10	0.88	4.82	V
	2133	-61.79	-13	-48.79	-75.92	-62.76	1.18	4.30	V
	2844	-60.32	-13	-47.32	-76.66	-62.45	1.40	5.68	V

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