



LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 2.NOV.2015 11:30:04

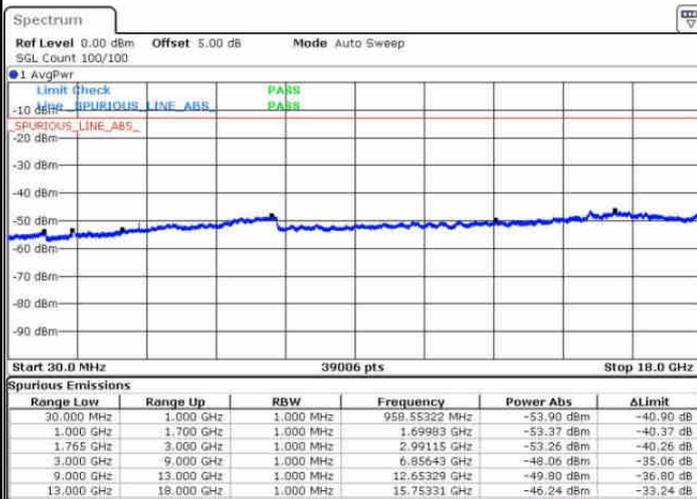
Highest Channel / 16QAM



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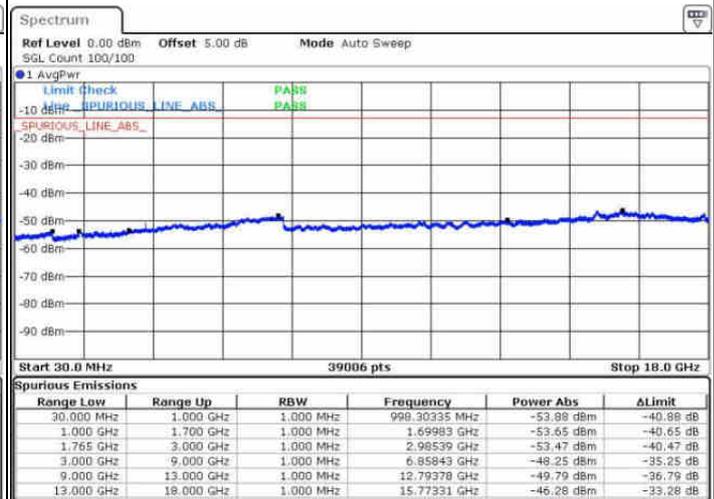
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 2.NOV.2015 11:37:08

Lowest Channel / 16QAM



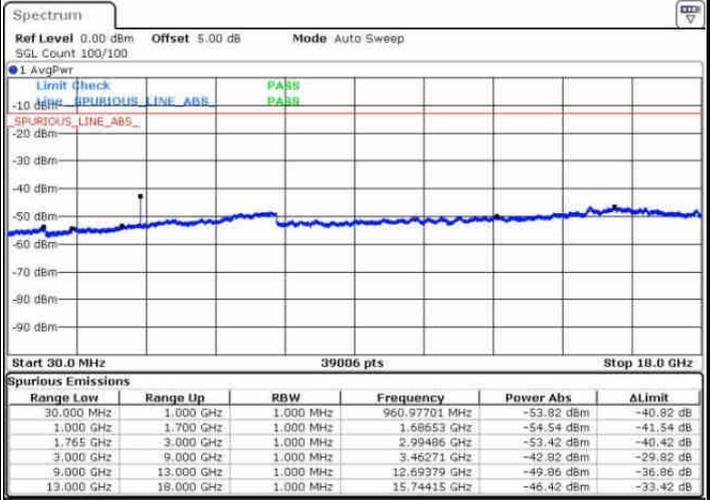
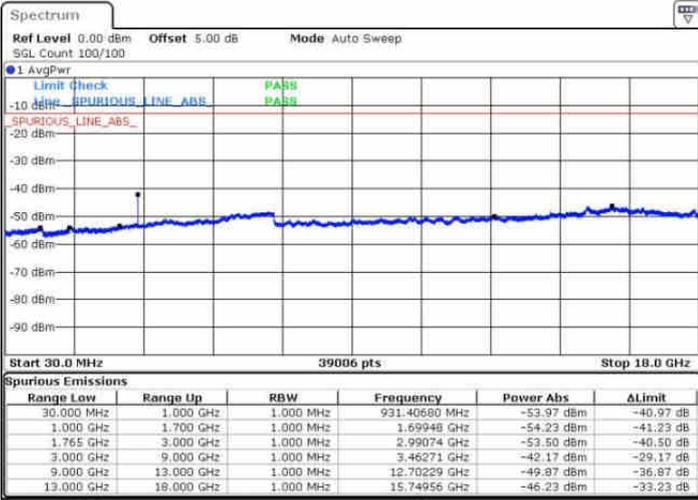
Date: 2.NOV.2015 11:38:05



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

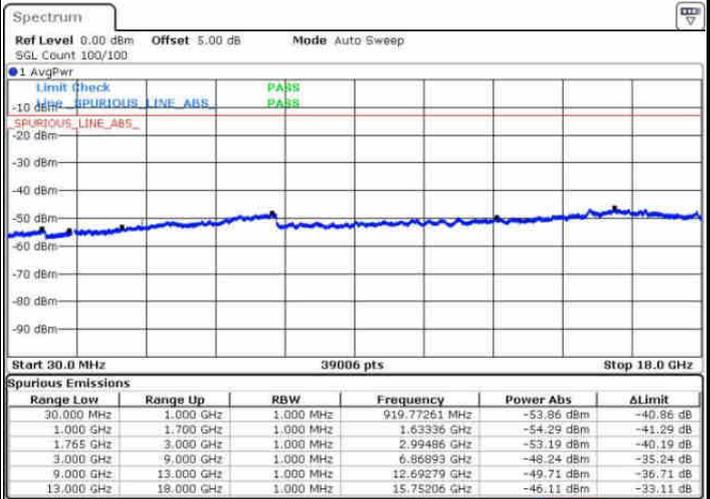
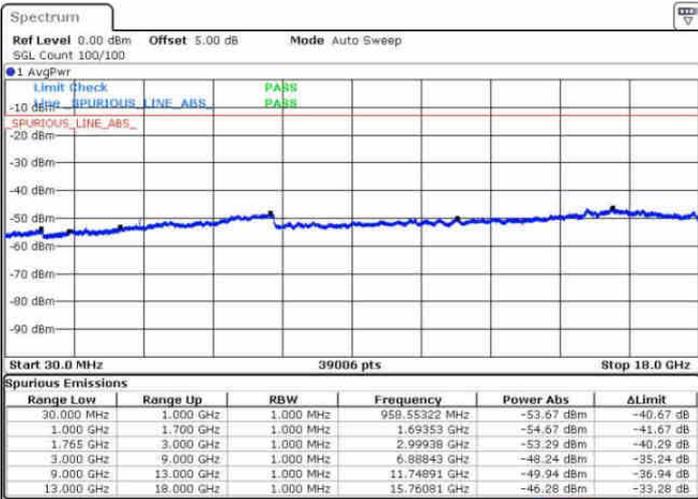


Date: 2 NOV 2015 11:39:42

Date: 2 NOV 2015 11:40:37

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2 NOV 2015 11:48:47

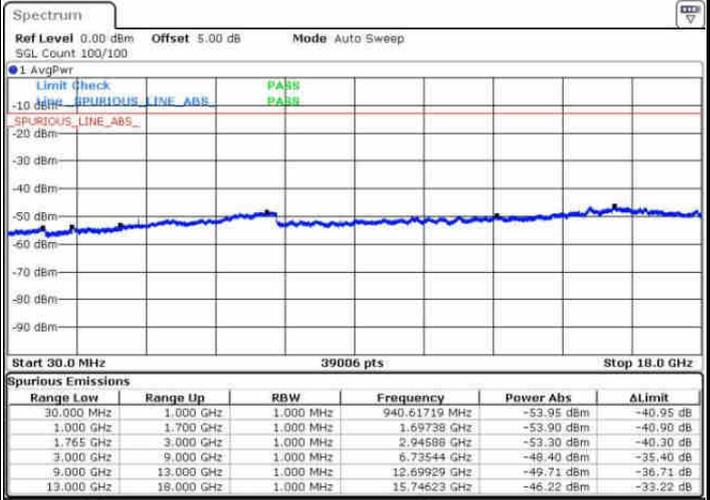
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LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

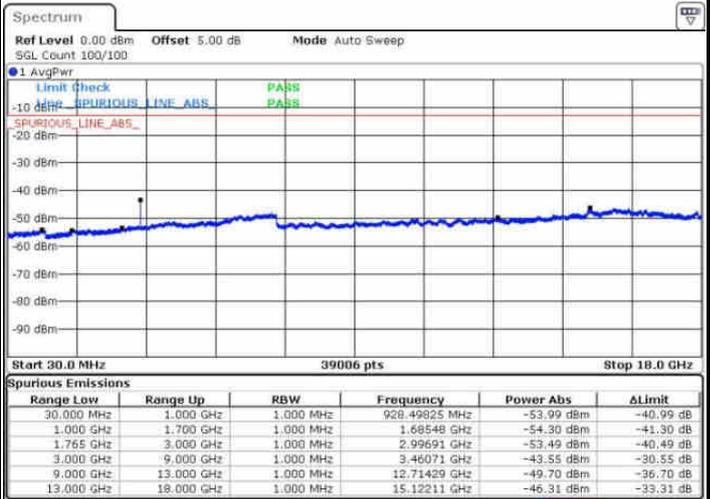
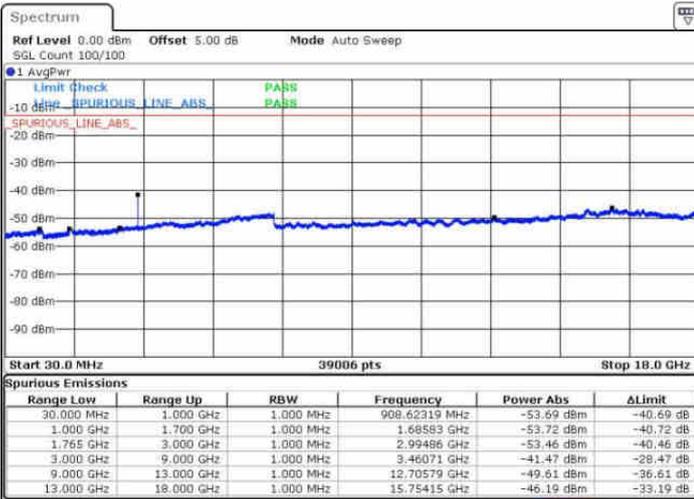


Date: 2 NOV 2015 11:53:51

Date: 2 NOV 2015 11:54:47

Middle Channel / QPSK

Middle Channel / 16QAM



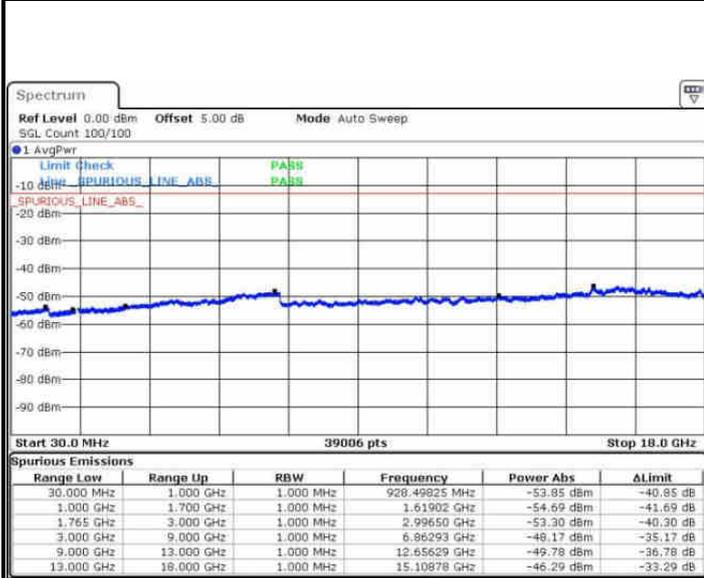
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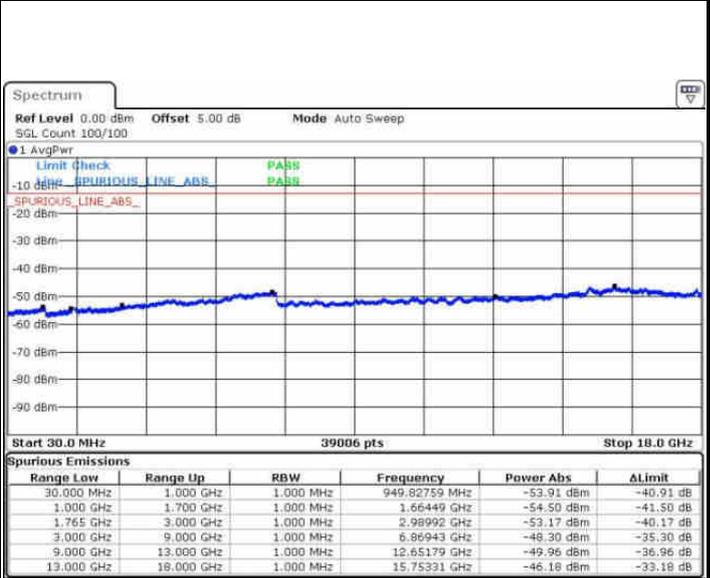
LTE Band 4 / 5MHz

Highest Channel / QPSK



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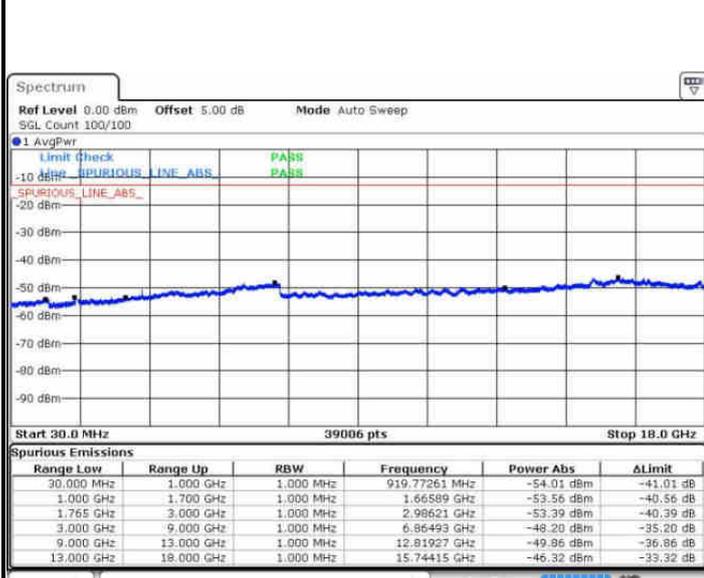
Highest Channel / 16QAM



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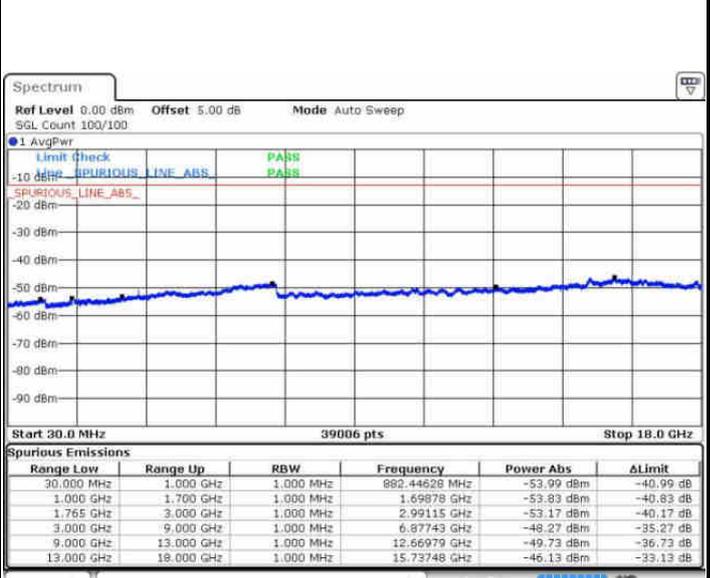
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 2 NOV 2015 12:10:34

Lowest Channel / 16QAM



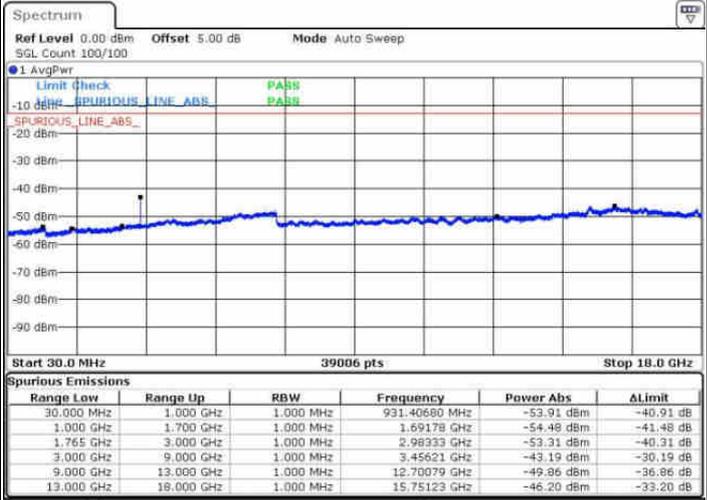
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LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

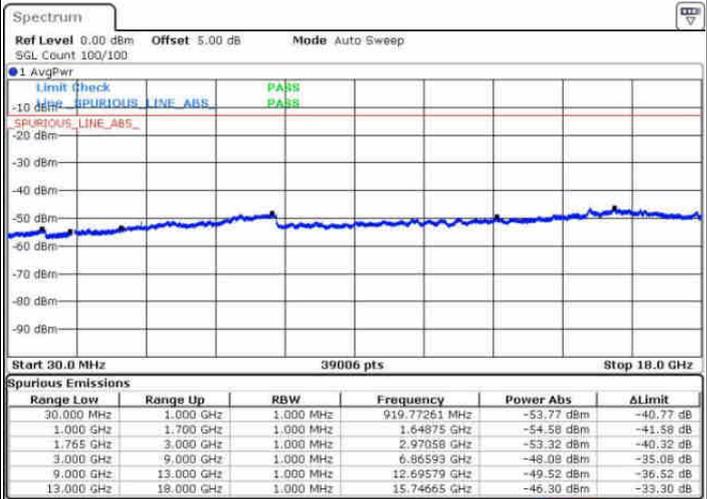
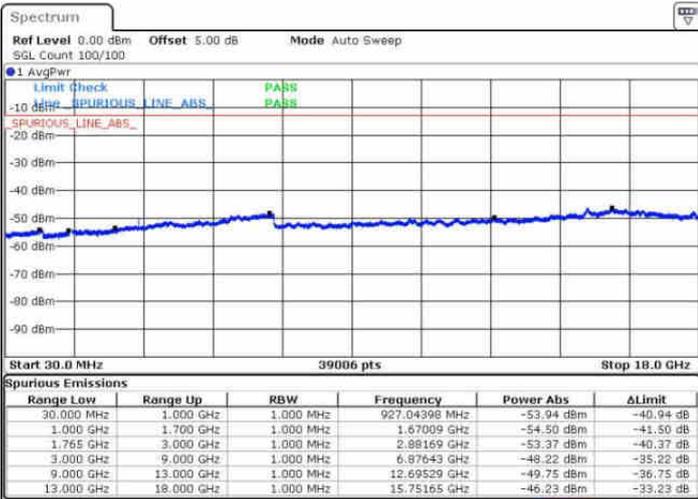


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Date: 2.NOV.2015 12:14:02

Highest Channel / QPSK

Highest Channel / 16QAM



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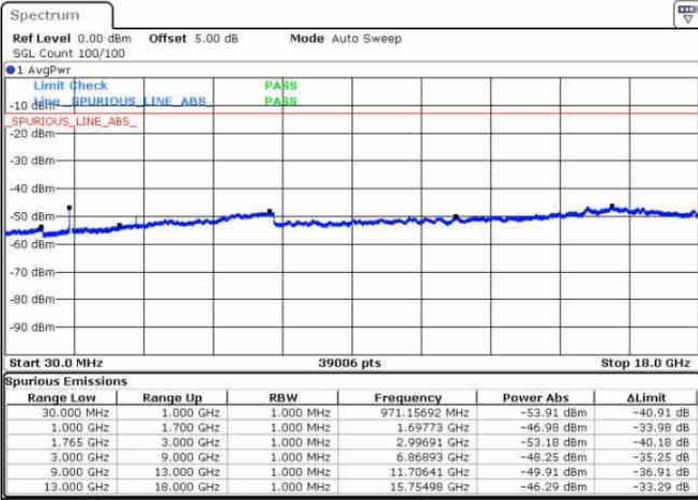
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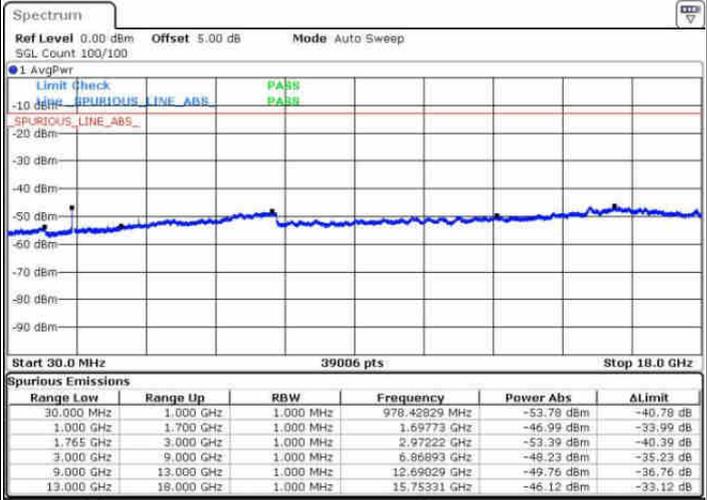
LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



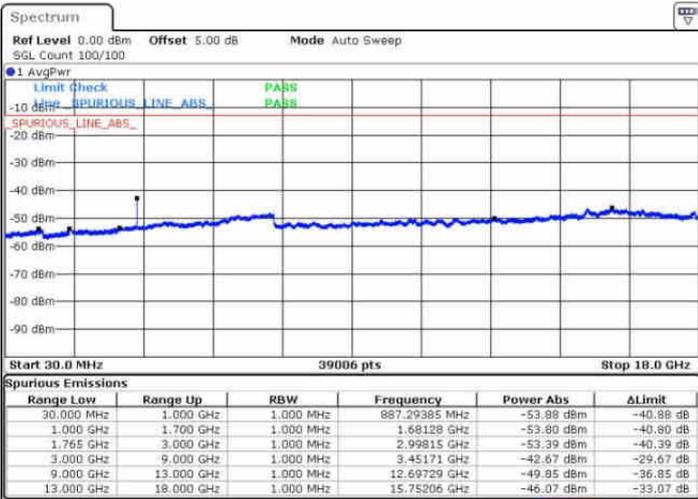
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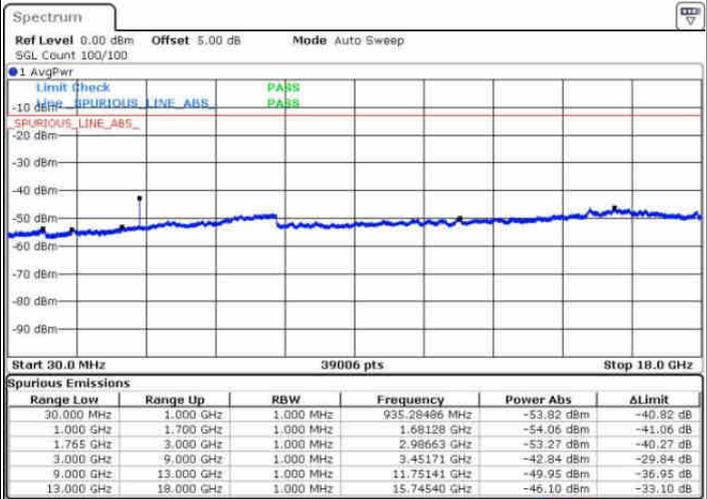
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Middle Channel / QPSK

Middle Channel / 16QAM



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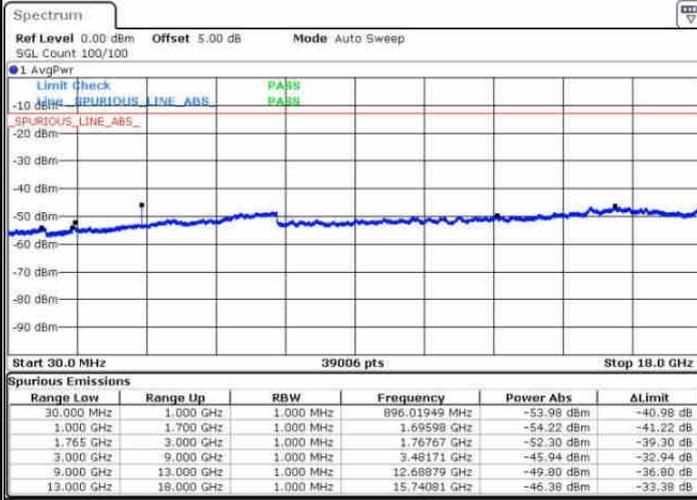


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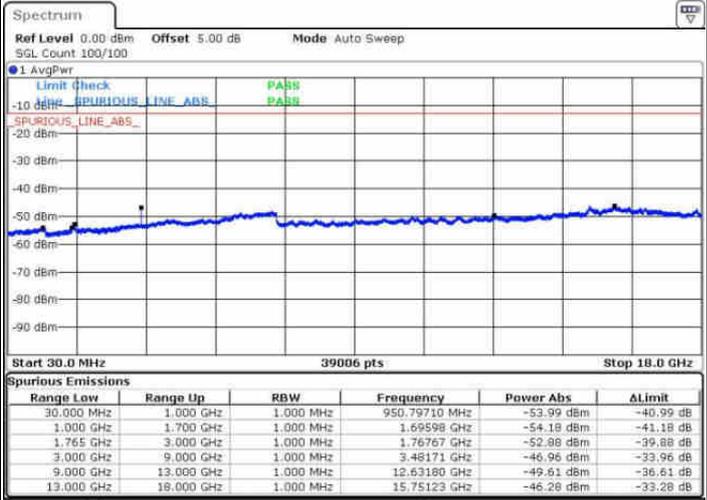
LTE Band 4 / 15MHz

Highest Channel / QPSK



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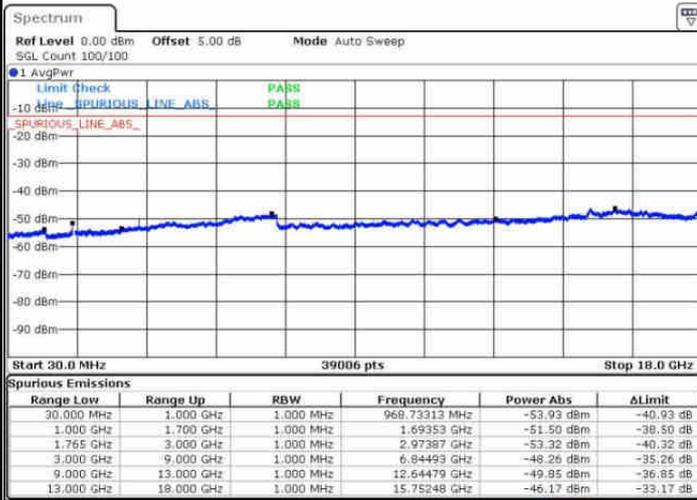
Highest Channel / 16QAM



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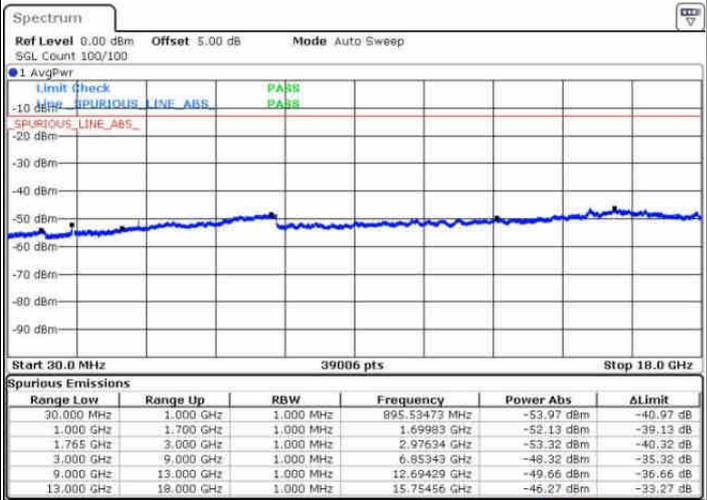
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 2.NOV.2015 12:43:58

Lowest Channel / 16QAM



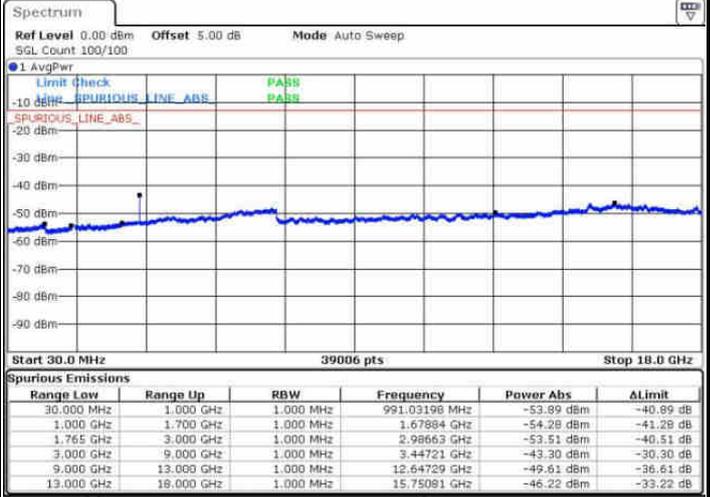
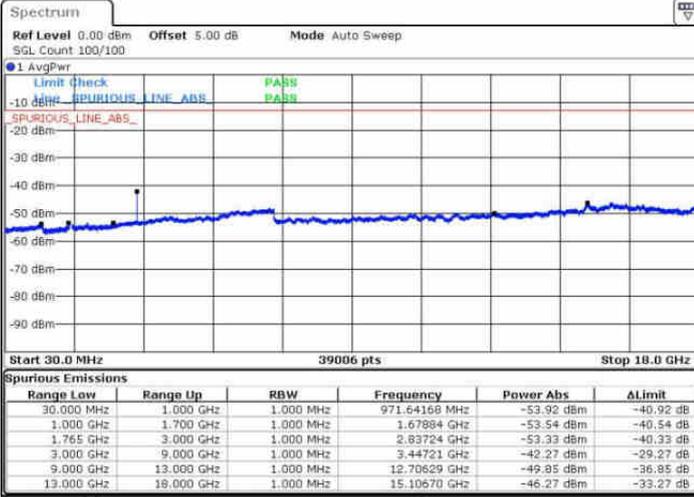
Date: 2.NOV.2015 12:44:55



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 2 NOV 2015 12:46:32

Date: 2 NOV 2015 12:47:28

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2 NOV 2015 12:53:37

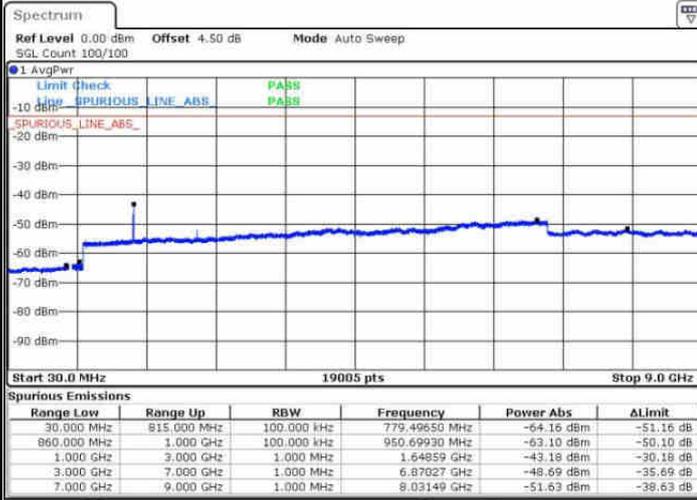
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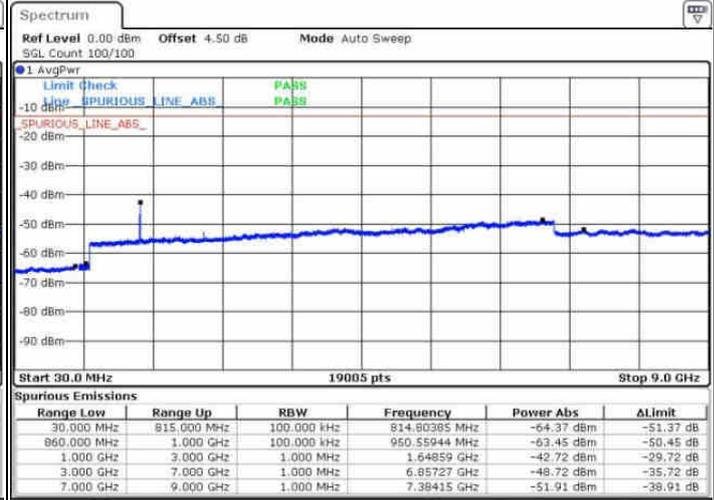
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



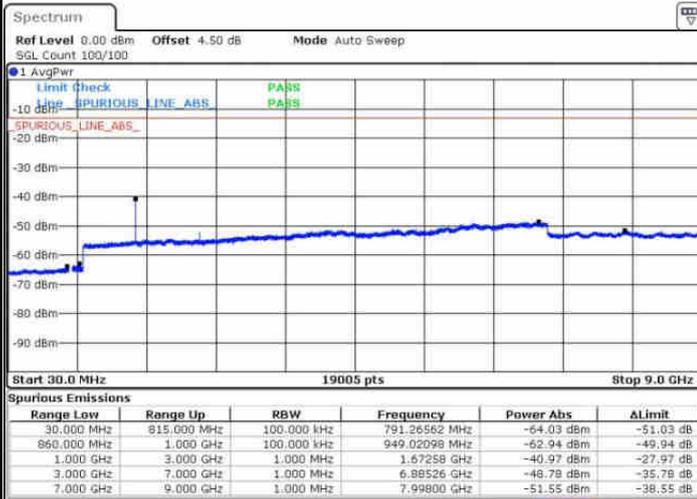
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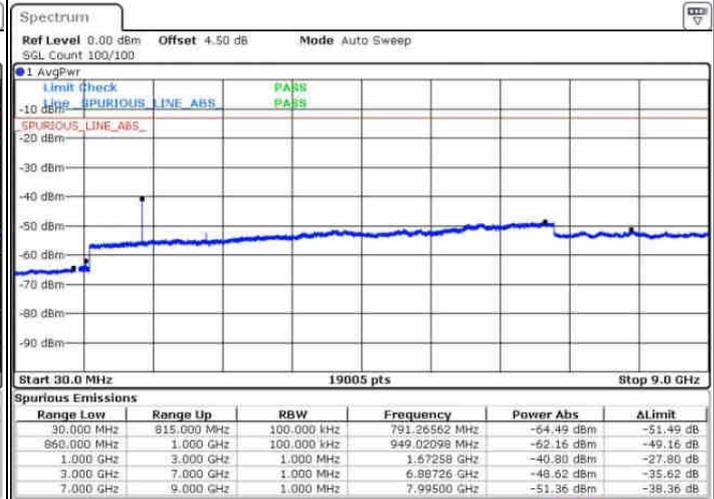
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Middle Channel / QPSK

Middle Channel / 16QAM



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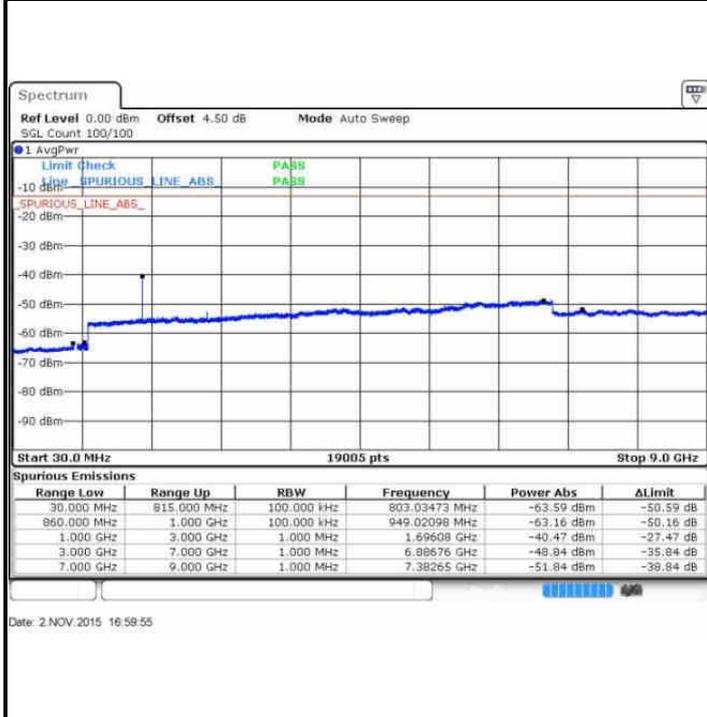


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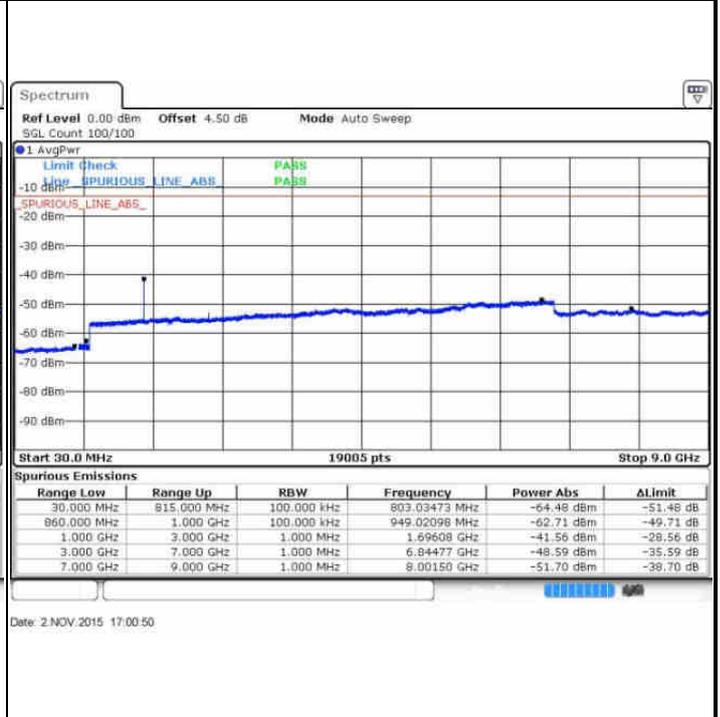


LTE Band 5 / 1.4MHz

Highest Channel / QPSK

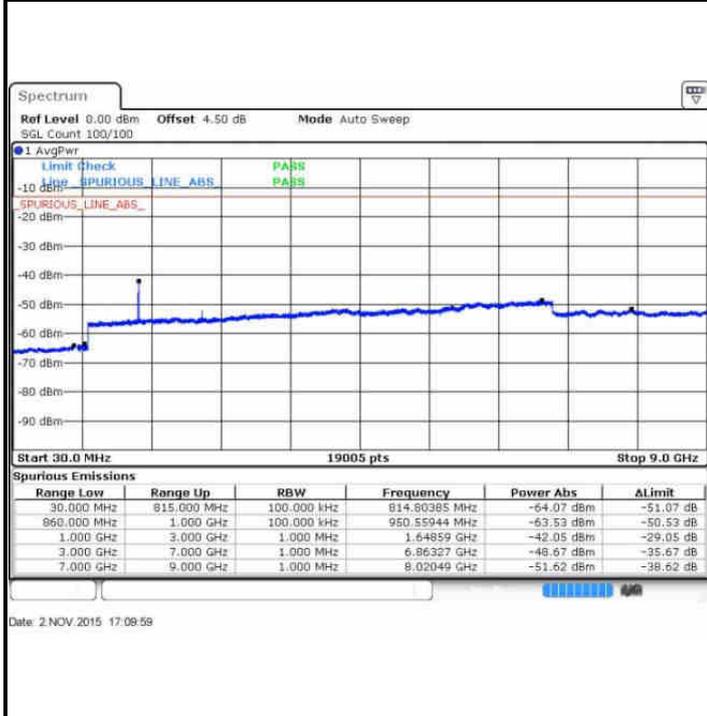


Highest Channel / 16QAM

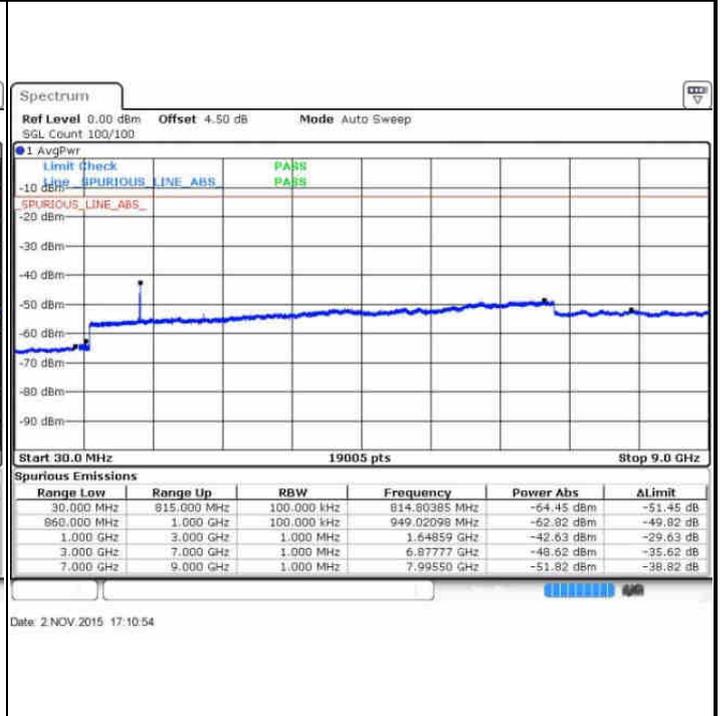


LTE Band 5 / 3MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

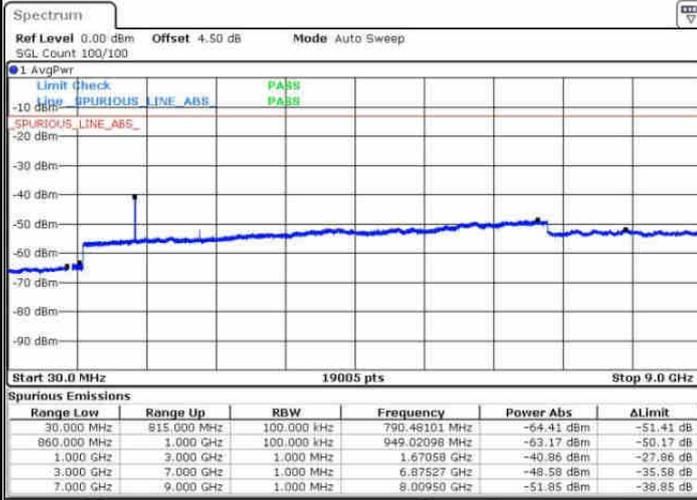




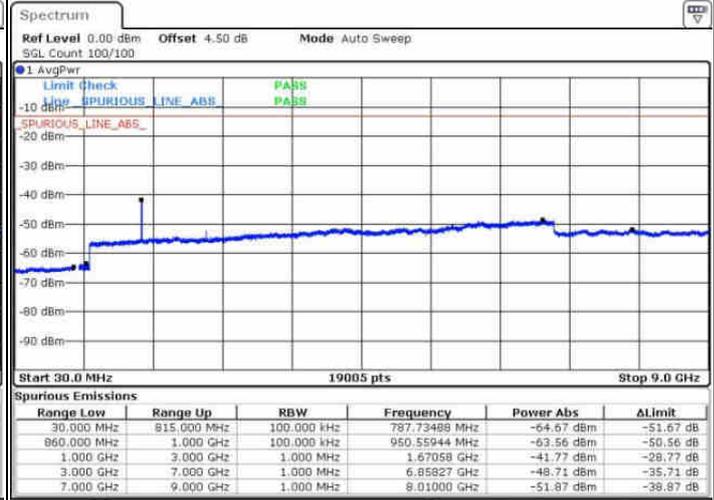
LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



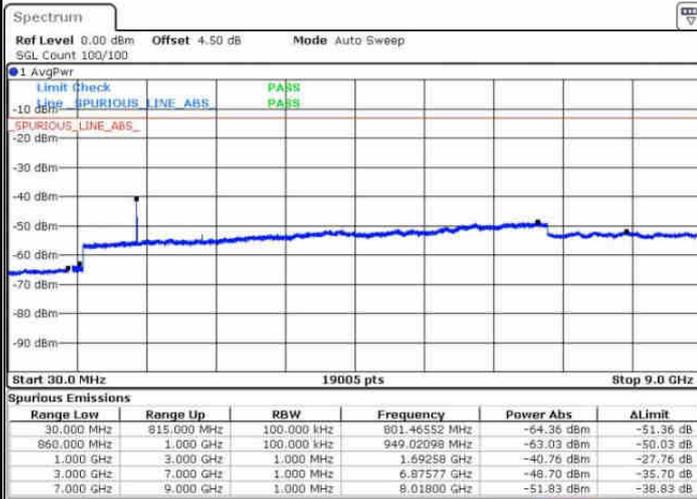
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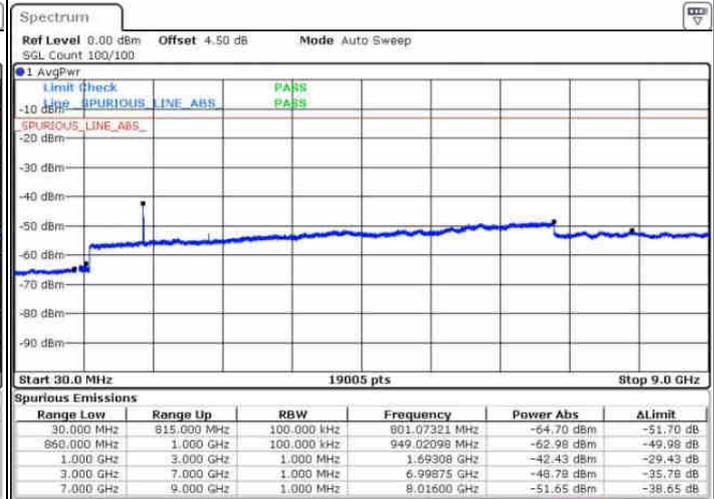
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Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.NOV.2015 17:22:35



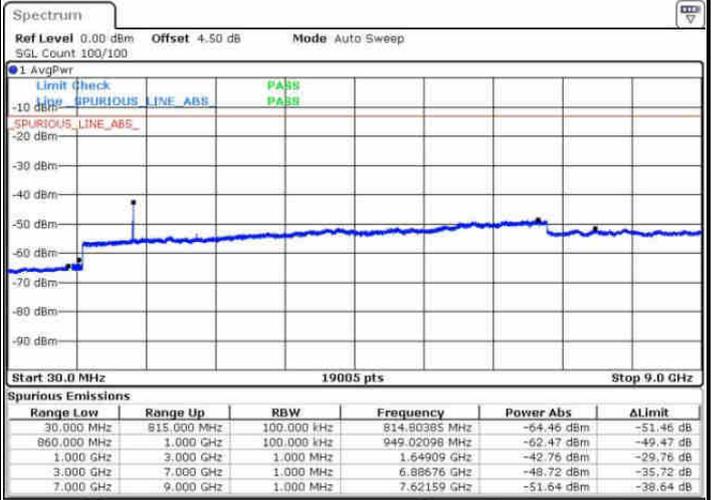
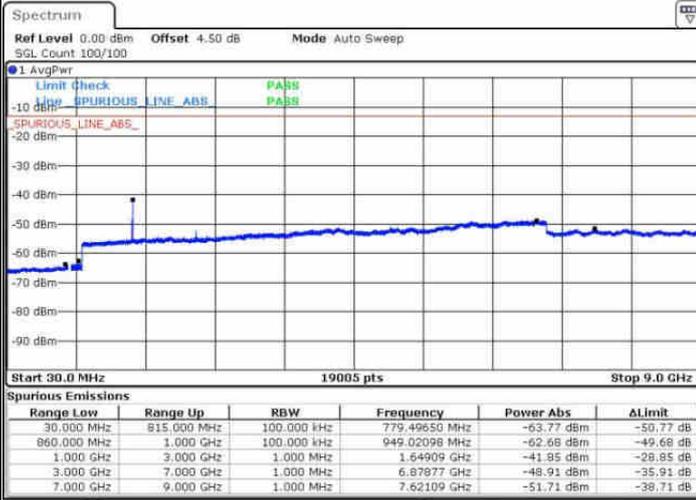
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LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

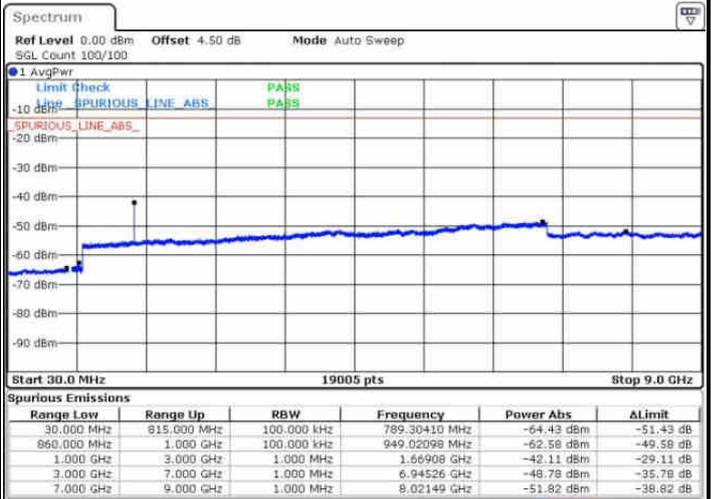
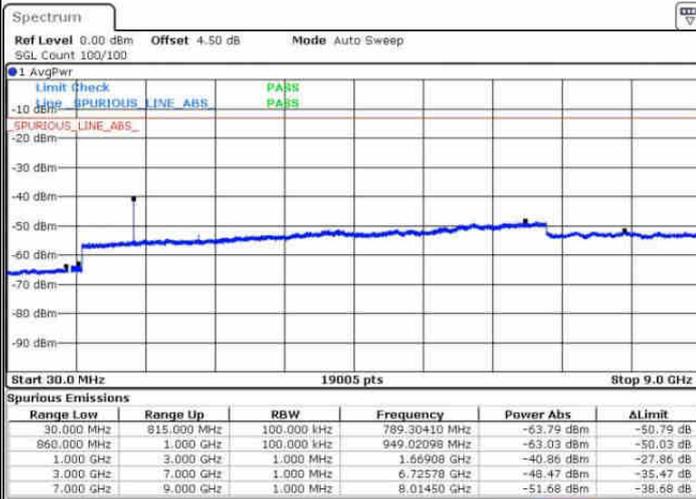


Date: 2.NOV.2015 17:32:39

Date: 2.NOV.2015 17:33:33

Middle Channel / QPSK

Middle Channel / 16QAM



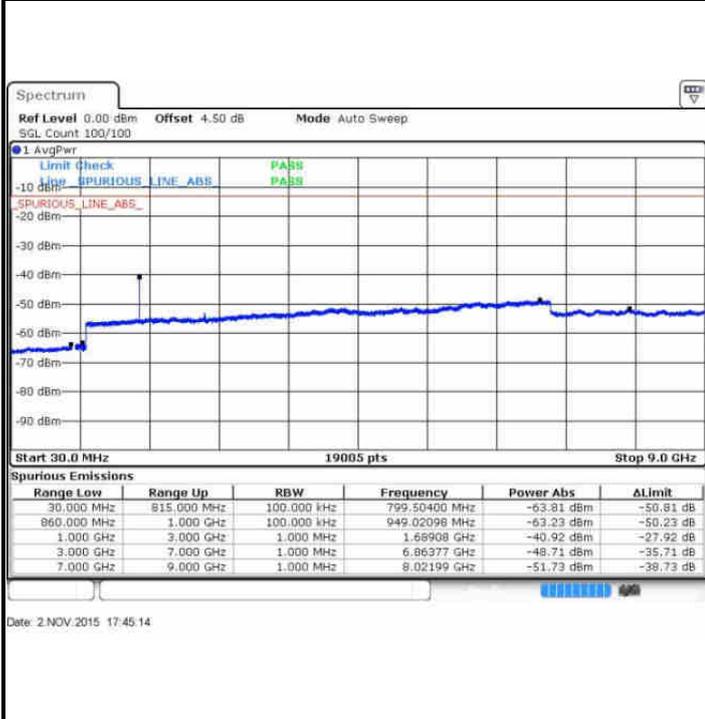
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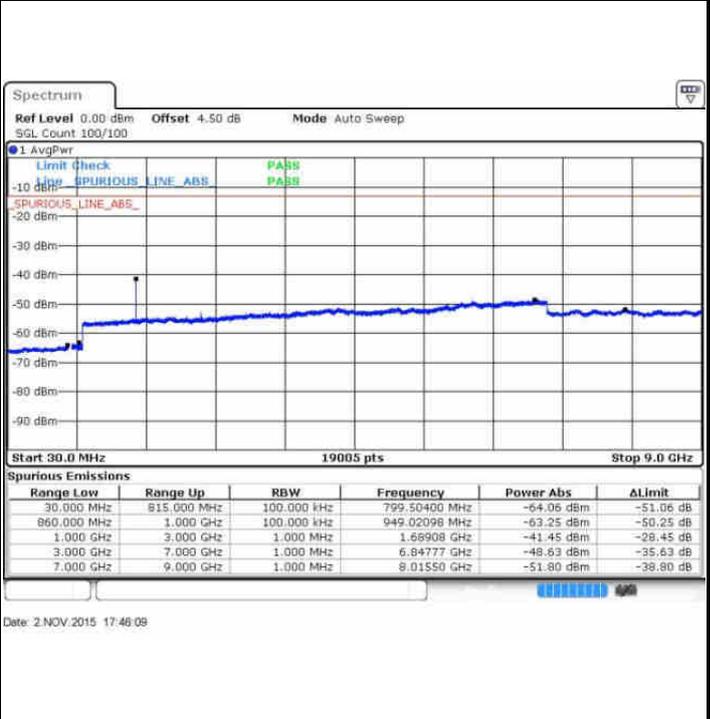


LTE Band 5 / 5MHz

Highest Channel / QPSK

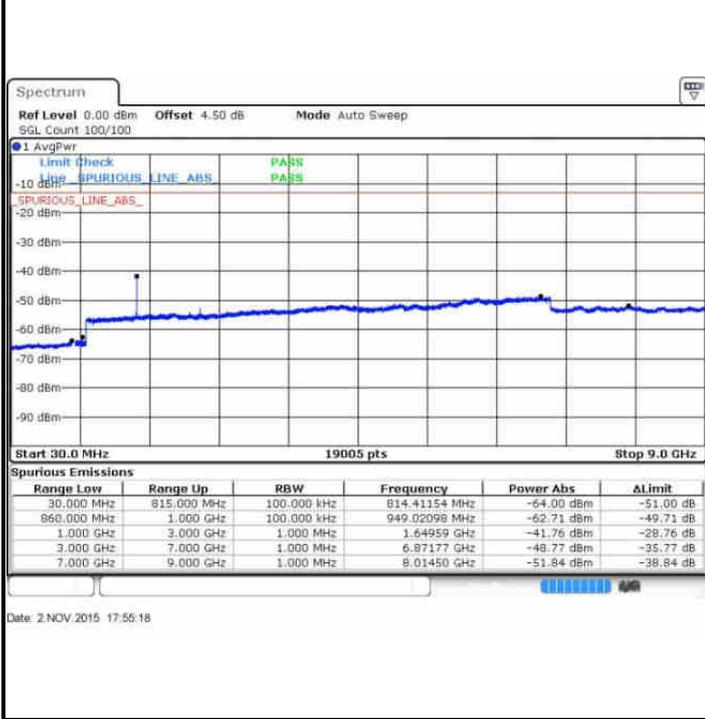


Highest Channel / 16QAM

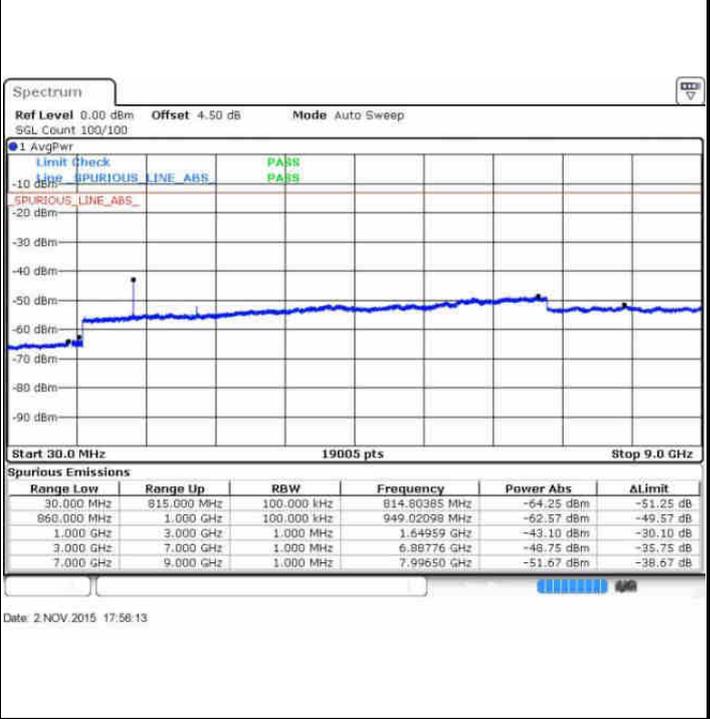


LTE Band 5 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

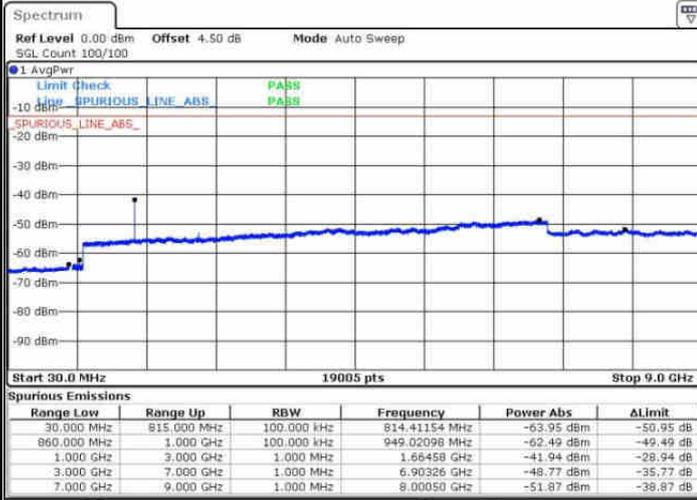




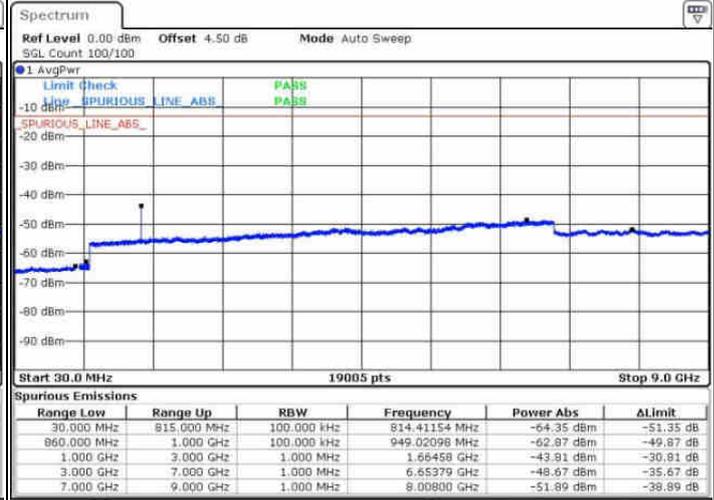
LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



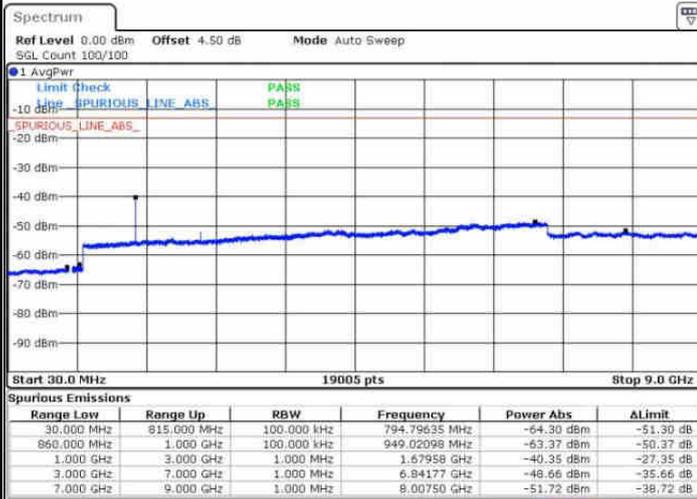
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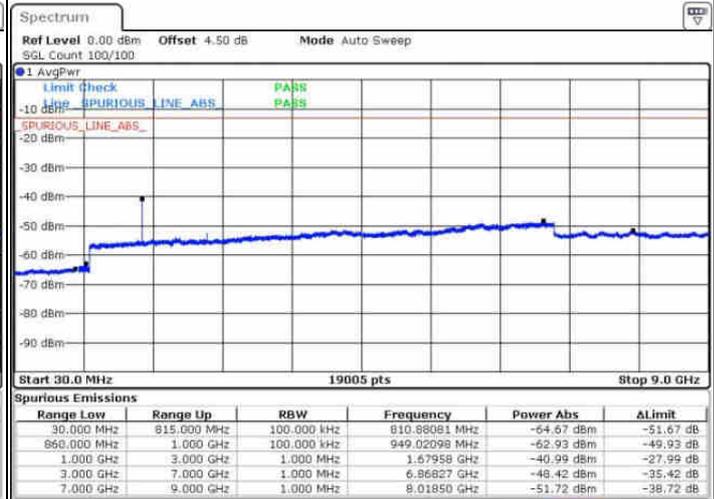
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Highest Channel / QPSK

Highest Channel / 16QAM



Date: 2.NOV.2015 18:07:54



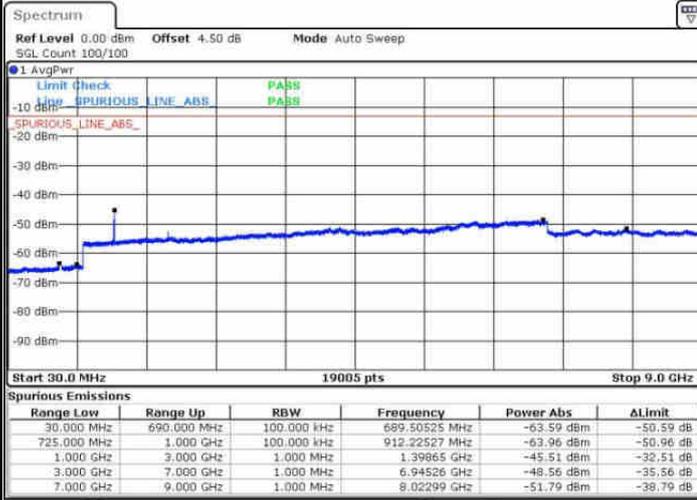
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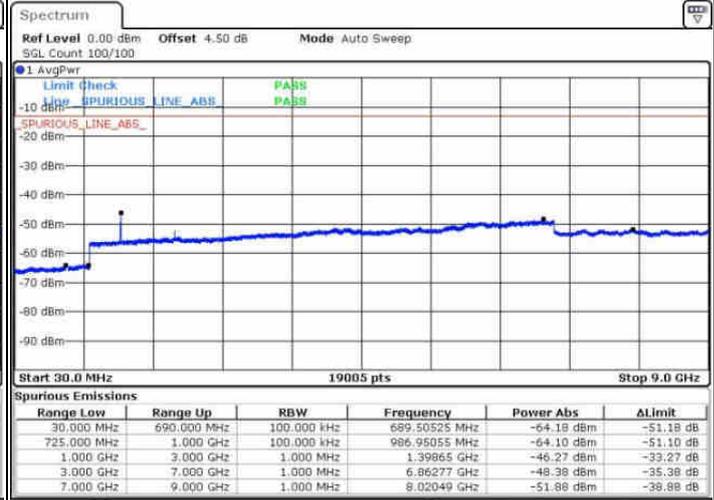
LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



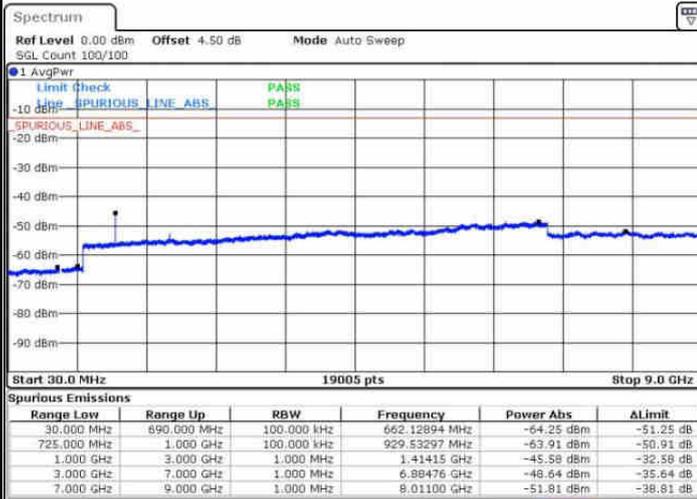
Date: 1.NOV.2015 12:21:08



Date: 1.NOV.2015 12:22:03

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.NOV.2015 12:24:36

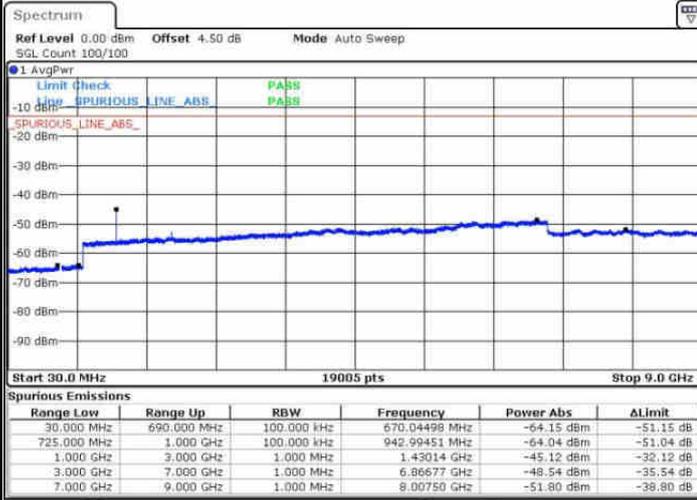


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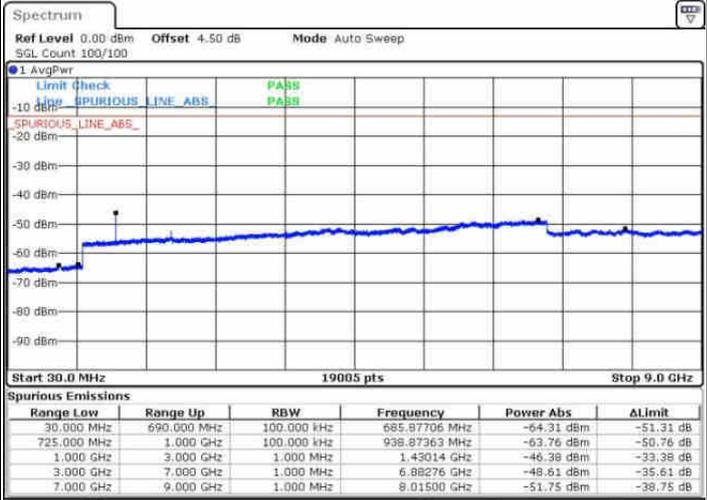
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



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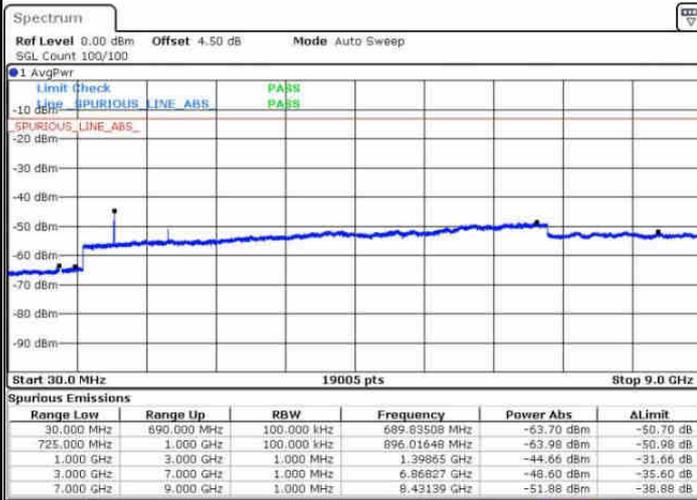
Highest Channel / 16QAM



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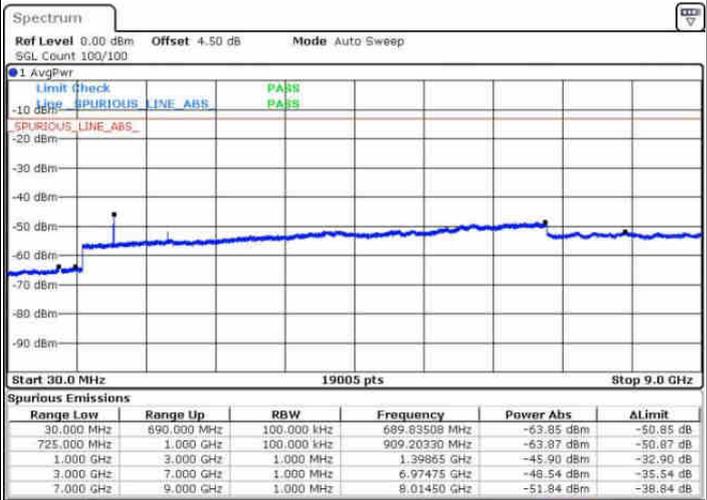
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 1.NOV.2015 11:13:08

Lowest Channel / 16QAM



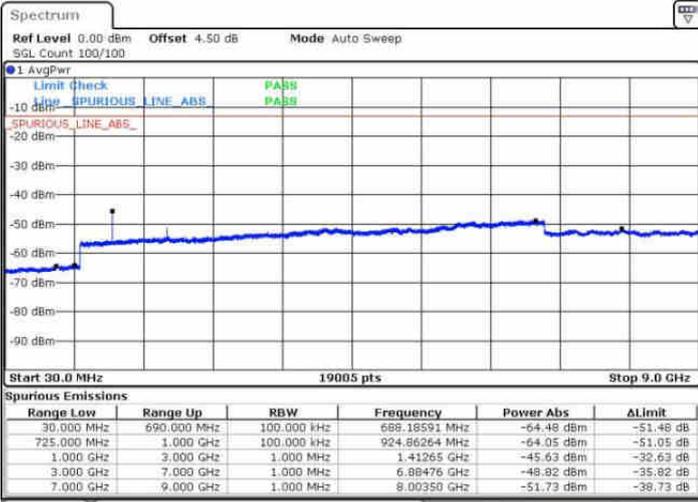
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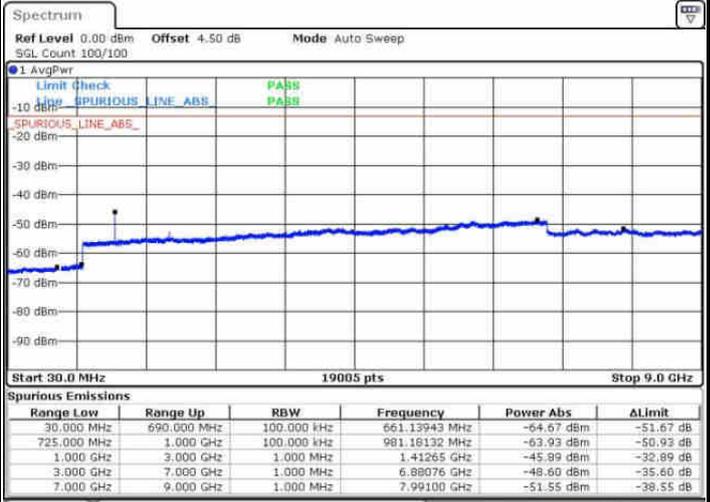
LTE Band 12 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM



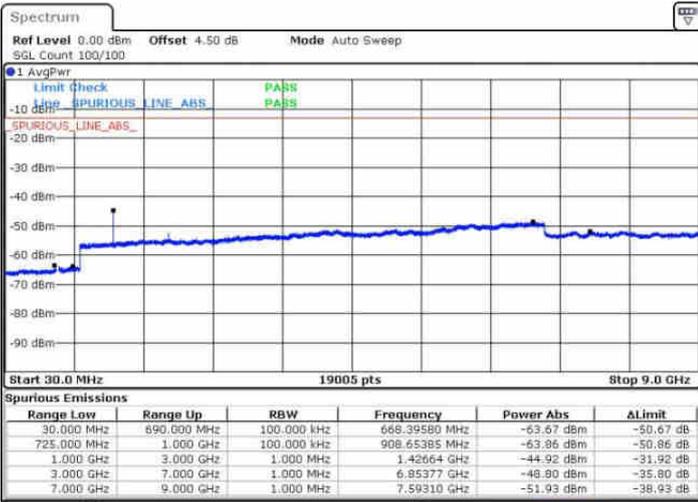
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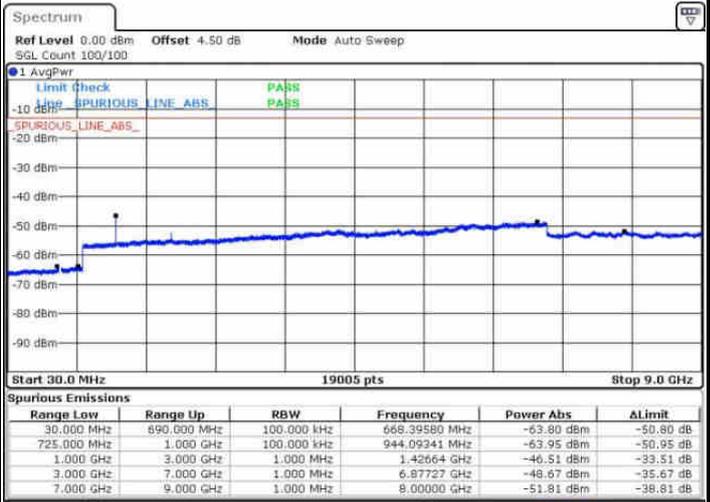
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Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.NOV.2015 11:25:45



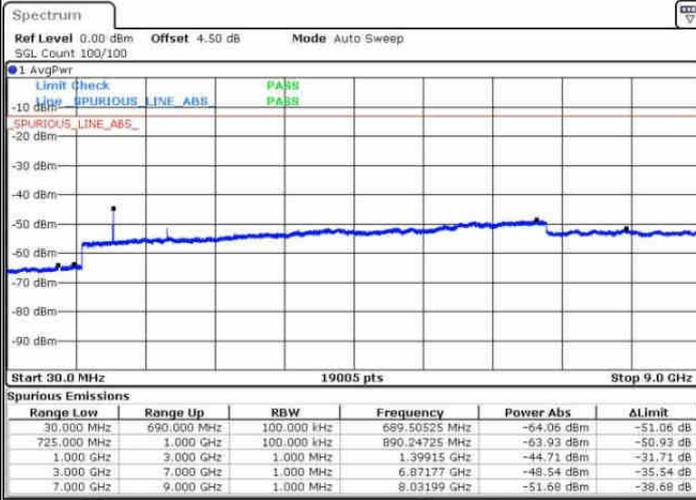
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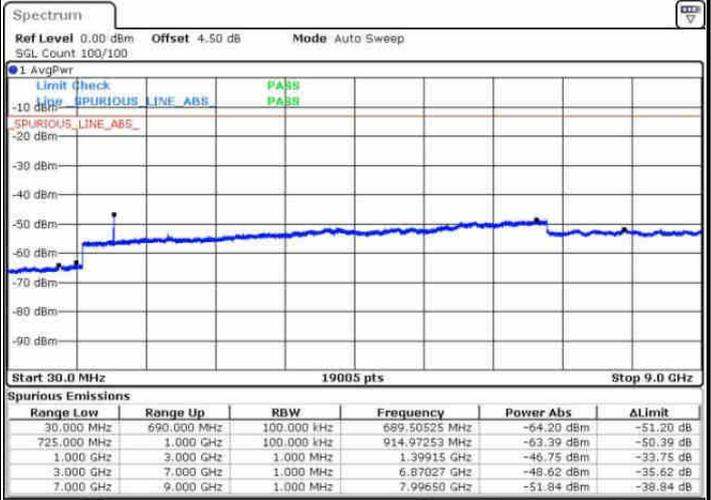
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 1.NOV.2015 11:36:48



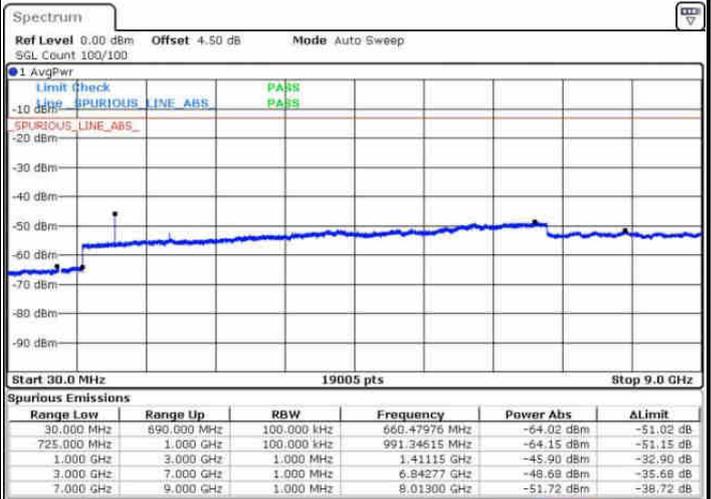
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Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.NOV.2015 11:38:16

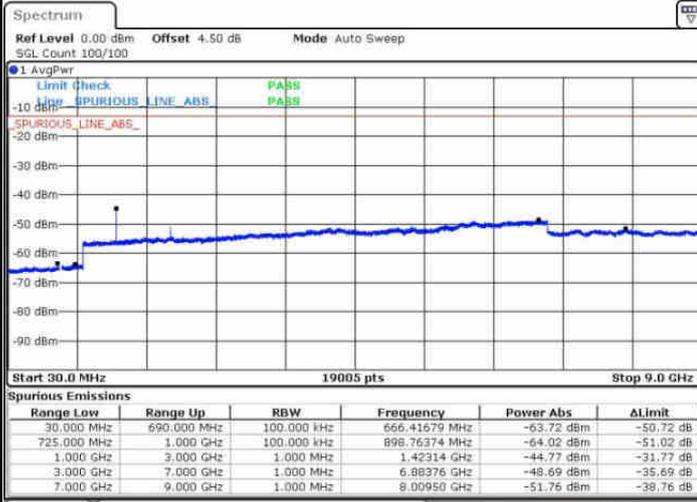


Date: 1.NOV.2015 11:38:21



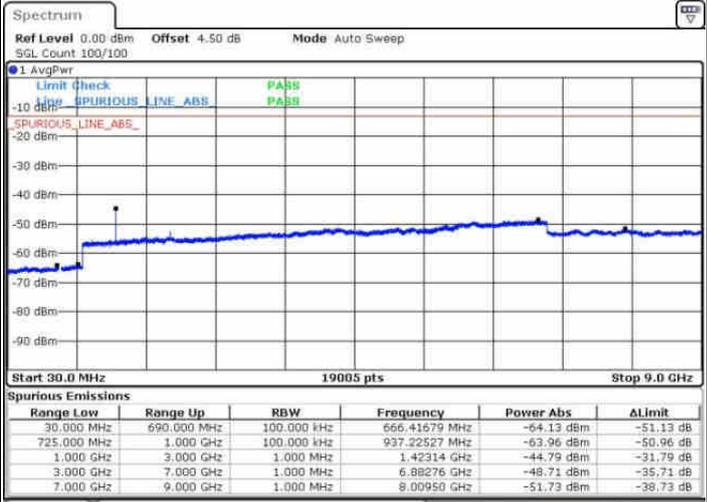
LTE Band 12 / 5MHz

Highest Channel / QPSK



Date: 1.NOV.2015 11:48:19

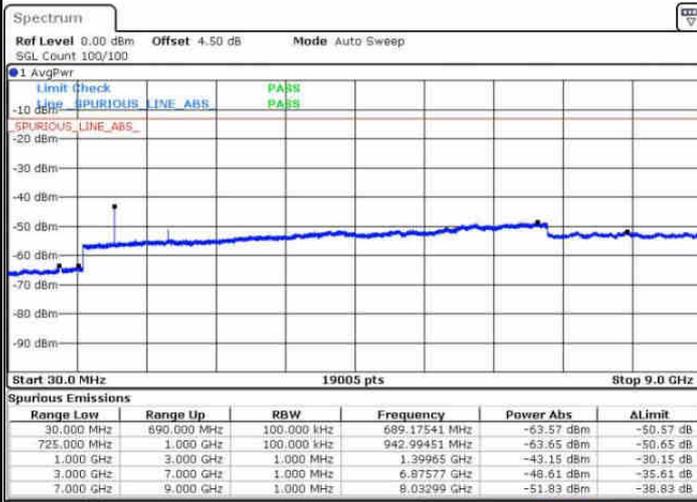
Highest Channel / 16QAM



Date: 1.NOV.2015 11:48:24

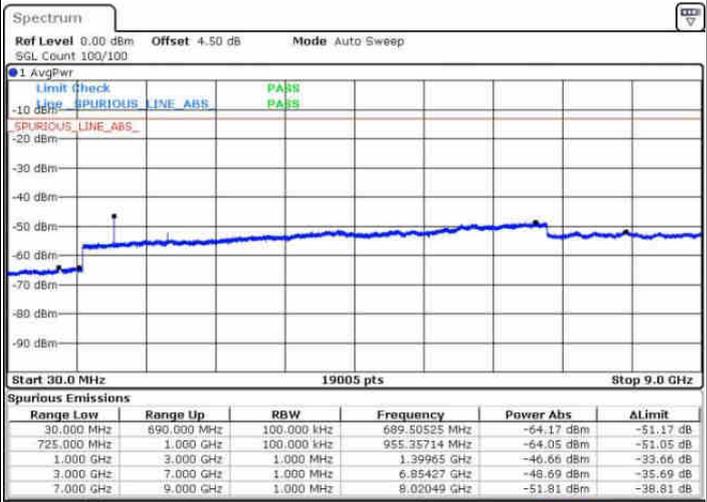
LTE Band 12 / 10MHz

Lowest Channel / QPSK



Date: 1.NOV.2015 11:58:28

Lowest Channel / 16QAM



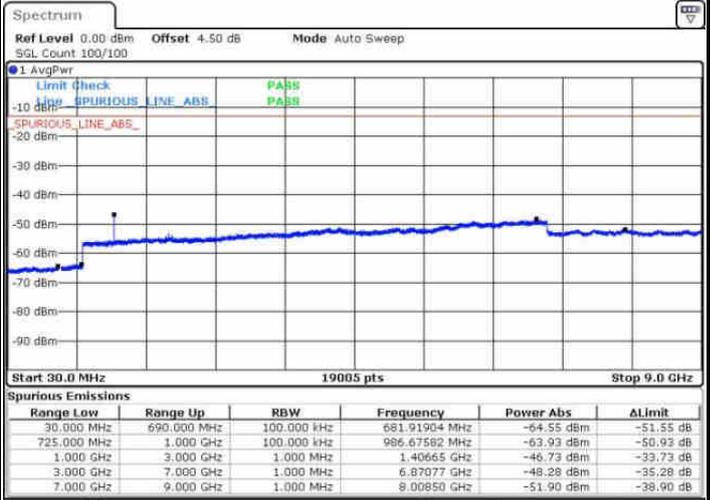
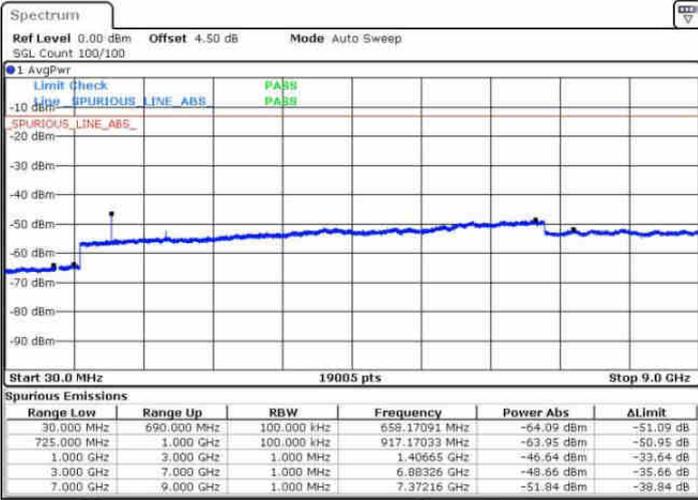
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LTE Band 12 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

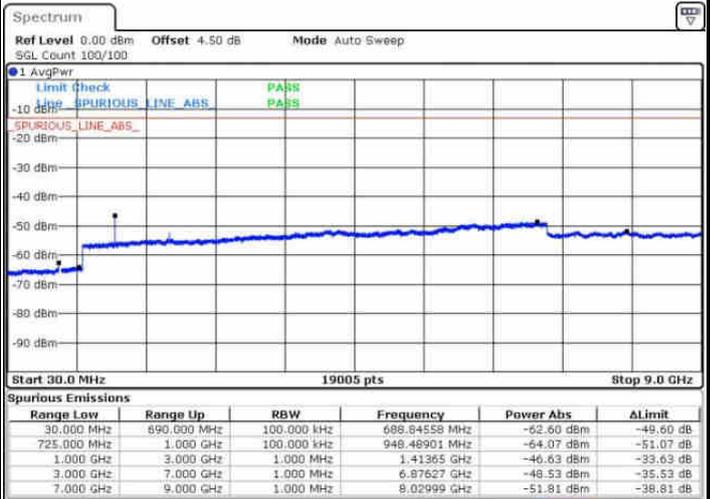
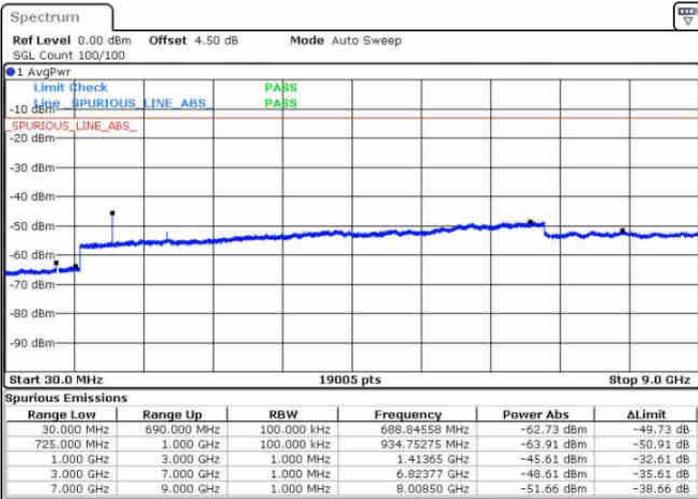


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Highest Channel / QPSK

Highest Channel / 16QAM



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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	0.0170	PASS
40	Normal Voltage	0.0106	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0117	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0074	
20	Maximum Voltage	0.0080	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0096	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.35V
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	0.0127	PASS
40	Normal Voltage	0.0110	
30	Normal Voltage	0.0098	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0092	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0081	
20	Maximum Voltage	0.0095	
20	Normal Voltage	0.0035	
20	Battery End Point	0.0087	

Note:

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



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0143	PASS
40	Normal Voltage	0.0335	
30	Normal Voltage	0.0383	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0132	
0	Normal Voltage	0.0204	
-10	Normal Voltage	0.0392	
-20	Normal Voltage	0.0048	
-30	Normal Voltage	0.0454	
20	Maximum Voltage	0.0586	
20	Normal Voltage	0.0036	
20	Battery End Point	0.0215	

Note: Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.35V



Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0044	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0042	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0047	
0	Normal Voltage	0.0065	
-10	Normal Voltage	0.0049	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0037	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.35V
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	3	1	21.96	0.1570	22.70	0.1862
Middle		3	1	21.26	0.1337	22.43	0.1750
Highest		3	1	21.76	0.1500	22.12	0.1629
Lowest	16QAM	3	0	20.86	0.1219	21.71	0.1483
Middle		1	3	20.39	0.1094	21.31	0.1352
Highest		1	0	21.12	0.1294	21.69	0.1476
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	8	21.79	0.1510	22.24	0.1675
Middle		1	0	21.52	0.1419	22.74	0.1879
Highest		1	0	21.76	0.1500	22.39	0.1734
Lowest	16QAM	1	14	21.18	0.1312	21.85	0.1531
Middle		1	0	20.63	0.1156	21.73	0.1489
Highest		1	0	21.05	0.1274	21.57	0.1435
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	0	21.92	0.1556	22.89	0.1945
Middle		1	0	21.49	0.1409	22.56	0.1803
Highest		1	0	21.87	0.1538	22.28	0.1690
Lowest	16QAM	1	12	21.07	0.1279	21.75	0.1496
Middle		1	0	20.42	0.1102	21.50	0.1413
Highest		1	0	20.95	0.1245	21.37	0.1371
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	0	22.10	0.1622	22.80	0.1905
Middle		1	0	21.37	0.1371	22.27	0.1687
Highest		1	25	21.99	0.1581	22.28	0.1690
Lowest	16QAM	1	0	20.99	0.1256	21.62	0.1452
Middle		1	0	20.34	0.1081	21.43	0.1390
Highest		1	0	20.93	0.1239	21.38	0.1374
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	0	21.68	0.1472	22.44	0.1754
Middle		1	0	21.75	0.1496	22.75	0.1884
Highest		1	0	21.60	0.1445	22.33	0.1710
Lowest	16QAM	1	0	21.06	0.1276	21.83	0.1524
Middle		1	0	20.75	0.1189	21.50	0.1413
Highest		1	0	20.72	0.1180	21.57	0.1435
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	22.11	0.1626	22.75	0.1884
Middle		1	49	21.18	0.1312	22.27	0.1687
Highest		1	0	21.82	0.1521	22.79	0.1901
Lowest	16QAM	1	0	21.00	0.1259	21.69	0.1476
Middle		1	0	20.87	0.1222	21.62	0.1452
Highest		1	0	20.47	0.1114	21.56	0.1432
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	22.37	0.1726	23.40	0.2188
Middle		1	5	21.78	0.1507	22.69	0.1858
Highest		3	3	22.61	0.1824	22.68	0.1854
Lowest	16QAM	1	3	20.90	0.1230	21.77	0.1503
Middle		1	3	21.02	0.1265	21.82	0.1521
Highest		1	3	21.53	0.1422	21.77	0.1503
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	22.15	0.1641	23.05	0.2018
Middle		1	14	21.97	0.1574	22.84	0.1923
Highest		1	0	22.34	0.1714	22.66	0.1845
Lowest	16QAM	1	8	21.49	0.1409	22.11	0.1626
Middle		1	8	21.05	0.1274	21.89	0.1545
Highest		1	0	21.47	0.1403	21.90	0.1549
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	22.05	0.1603	23.09	0.2037
Middle		1	0	22.11	0.1626	22.74	0.1879
Highest		1	12	22.56	0.1803	22.52	0.1786
Lowest	16QAM	1	12	22.69	0.1858	22.37	0.1726
Middle		1	0	20.96	0.1247	21.67	0.1469
Highest		1	12	21.50	0.1413	21.60	0.1445
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	21.82	0.1521	22.92	0.1959
Middle		1	0	22.32	0.1706	22.56	0.1803
Highest		1	0	22.16	0.1644	22.47	0.1766
Lowest	16QAM	1	25	21.00	0.1259	21.84	0.1528
Middle		1	0	21.27	0.1340	21.71	0.1483
Highest		1	25	21.29	0.1346	21.52	0.1419
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	21.85	0.1531	22.81	0.1910
Middle		1	0	22.13	0.1633	22.64	0.1837
Highest		1	37	22.05	0.1603	22.47	0.1766
Lowest	16QAM	1	0	21.04	0.1271	22.09	0.1618
Middle		1	0	21.18	0.1312	21.71	0.1483
Highest		1	0	20.76	0.1191	21.53	0.1422
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	21.98	0.1578	22.95	0.1972
Middle		1	0	22.11	0.1626	22.68	0.1854
Highest		1	0	21.89	0.1545	22.60	0.1820
Lowest	16QAM	1	0	20.86	0.1219	21.85	0.1531
Middle		1	0	21.27	0.1340	21.75	0.1496
Highest		1	0	20.83	0.1211	21.54	0.1426
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	1	17.87	0.0612	7.36	0.0054
Middle		3	1	18.26	0.0670	7.85	0.0061
Highest		3	1	18.14	0.0652	8.33	0.0068
Lowest	16QAM	1	5	17.29	0.0536	6.68	0.0047
Middle		3	1	17.39	0.0548	7.07	0.0051
Highest		3	1	16.97	0.0498	7.06	0.0051
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	18.07	0.0641	7.60	0.0058
Middle		1	8	18.25	0.0668	7.99	0.0063
Highest		1	8	18.27	0.0671	8.37	0.0069
Lowest	16QAM	1	0	17.19	0.0524	6.55	0.0045
Middle		1	8	17.17	0.0521	6.93	0.0049
Highest		1	0	17.33	0.0541	7.23	0.0053
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	12	18.26	0.0670	7.72	0.0059
Middle		1	12	18.48	0.0705	8.25	0.0067
Highest		1	12	18.60	0.0724	8.25	0.0067
Lowest	16QAM	1	0	17.86	0.0611	6.82	0.0048
Middle		1	0	17.24	0.0530	7.02	0.0050
Highest		1	0	17.25	0.0531	7.36	0.0054
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	0	18.73	0.0746	7.38	0.0055
Middle		1	49	18.16	0.0655	8.27	0.0067
Highest		1	25	18.40	0.0692	8.42	0.0070
Lowest	16QAM	1	0	17.85	0.0610	6.95	0.0050
Middle		1	0	17.40	0.0550	6.76	0.0047
Highest		1	0	16.67	0.0465	6.96	0.0050
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	0	18.46	0.0701	4.01	0.0025
Middle		3	3	18.45	0.0700	3.56	0.0023
Highest		3	0	18.51	0.0710	3.46	0.0022
Lowest	16QAM	3	0	17.67	0.0585	3.27	0.0021
Middle		3	3	17.46	0.0557	2.58	0.0018
Highest		1	0	17.35	0.0543	2.33	0.0017
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	18.71	0.0743	4.31	0.0027
Middle		1	14	18.56	0.0718	3.63	0.0023
Highest		1	0	18.68	0.0738	3.56	0.0023
Lowest	16QAM	1	0	17.77	0.0598	3.39	0.0022
Middle		1	0	18.07	0.0641	3.37	0.0022
Highest		1	0	17.92	0.0619	2.90	0.0019
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	18.55	0.0716	4.47	0.0028
Middle		1	12	18.89	0.0774	4.33	0.0027
Highest		1	12	18.75	0.0750	4.16	0.0026
Lowest	16QAM	1	24	17.50	0.0562	3.39	0.0022
Middle		1	0	17.88	0.0614	3.56	0.0023
Highest		1	0	17.52	0.0565	2.82	0.0019
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	18.73	0.0746	4.06	0.0025
Middle		1	25	18.81	0.0760	4.30	0.0027
Highest		1	0	19.08	0.0809	4.73	0.0030
Lowest	16QAM	1	25	17.77	0.0598	3.72	0.0024
Middle		1	25	17.47	0.0558	2.95	0.0020
Highest		1	25	17.63	0.0579	2.96	0.0020
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	-55.88	-13	-42.88	-65.44	-60.88	2.60	7.60	H
	5640	-50.87	-13	-37.87	-64.86	-57.87	3.10	10.10	H
	7521	-49.65	-13	-36.65	-68.38	-55.81	5.77	11.93	H
	3760	-55.42	-13	-42.42	-65.94	-60.42	2.60	7.60	V
	5640	-51.09	-13	-38.09	-65.55	-58.09	3.10	10.10	V
	7521	-50.12	-13	-37.12	-68.04	-56.28	5.77	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	-56.95	-13	-43.95	-66.51	-61.95	2.60	7.60	H
	5637	-50.25	-13	-37.25	-64.24	-57.25	3.10	10.10	H
	7515	-49.80	-13	-36.80	-68.53	-55.96	5.77	11.93	H
	3756	-55.71	-13	-42.71	-66.23	-60.71	2.60	7.60	V
	5637	-50.74	-13	-37.74	-65.2	-57.74	3.10	10.10	V
	7515	-51.03	-13	-38.03	-68.95	-57.19	5.77	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	-56.35	-13	-43.35	-65.91	-61.35	2.60	7.60	H
	5634	-50.13	-13	-37.13	-64.12	-57.13	3.10	10.10	H
	7512	-50.09	-13	-37.09	-68.82	-56.25	5.77	11.93	H
	3756	-55.66	-13	-42.66	-66.18	-60.66	2.60	7.60	V
	5634	-51.33	-13	-38.33	-65.79	-58.33	3.10	10.10	V
	7512	-51.65	-13	-38.65	-69.57	-57.81	5.77	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	-55.87	-13	-42.87	-65.43	-60.87	2.60	7.60	H
	5628	-50.50	-13	-37.50	-64.49	-57.50	3.10	10.10	H
	7503	-50.76	-13	-37.76	-69.49	-56.92	5.77	11.93	H
	3751	-55.66	-13	-42.66	-66.18	-60.66	2.60	7.60	V
	5628	-50.98	-13	-37.98	-65.44	-57.98	3.10	10.10	V
	7502	-50.67	-13	-37.67	-68.59	-56.83	5.77	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	-56.14	-13	-43.14	-65.70	-61.14	2.60	7.60	H
	5619	-50.34	-13	-37.34	-64.33	-57.34	3.10	10.10	H
	7494	-48.92	-13	-35.92	-67.65	-55.08	5.77	11.93	H
	3747	-54.36	-13	-41.36	-64.88	-59.36	2.60	7.60	V
	5619	-50.50	-13	-37.50	-64.96	-57.50	3.10	10.10	V
	7494	-51.22	-13	-38.22	-69.14	-57.38	5.77	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	-56.21	-13	-43.21	-65.77	-61.21	2.60	7.60	H
	5613	-52.37	-13	-39.37	-66.36	-59.37	3.10	10.10	H
	7485	-49.78	-13	-36.78	-68.51	-55.94	5.77	11.93	H
	3741	-56.01	-13	-43.01	-66.53	-61.01	2.60	7.60	V
	5613	-51.61	-13	-38.61	-66.07	-58.61	3.10	10.10	V
	7485	-49.50	-13	-36.50	-67.42	-55.66	5.77	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	-46.18	-13	-33.18	-54.84	-51.16	2.51	7.49	H
	5196	-54.04	-13	-41.04	-67.63	-60.51	2.98	9.45	H
	6930	-52.21	-13	-39.21	-69.00	-58.28	5.28	11.35	H
	3465	-53.28	-13	-40.28	-60.14	-58.26	2.51	7.49	V
	5197	-53.13	-13	-40.13	-67.09	-59.60	2.98	9.45	V
	6930	-51.99	-13	-38.99	-69.02	-58.06	5.28	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	-47.77	-13	-34.77	-56.34	-52.75	2.51	7.49	H
	5193	-54.25	-13	-41.25	-67.84	-60.72	2.98	9.45	H
	6924	-51.53	-13	-38.53	-68.32	-57.60	5.28	11.35	H
	3462	-52.10	-13	-39.10	-59.14	-57.08	2.51	7.49	V
	5193	-52.60	-13	-39.60	-66.56	-59.07	2.98	9.45	V
	6924	-51.36	-13	-38.36	-68.39	-57.43	5.28	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	-48.35	-13	-35.35	-56.87	-53.33	2.51	7.49	H
	5190	-53.00	-13	-40.00	-66.59	-59.47	2.98	9.45	H
	6921	-52.29	-13	-39.29	-69.08	-58.36	5.28	11.35	H
	3462	-52.14	-13	-39.14	-59.17	-57.12	2.51	7.49	V
	5191.5	-53.56	-13	-40.56	-67.52	-60.03	2.98	9.45	V
	6921	-52.92	-13	-39.92	-69.95	-58.99	5.28	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	-49.14	-13	-36.14	-57.62	-54.12	2.51	7.49	H
	5181	-54.04	-13	-41.04	-67.63	-60.51	2.98	9.45	H
	6912	-52.01	-13	-39.01	-68.80	-58.08	5.28	11.35	H
	3456	-54.69	-13	-41.69	-61.25	-59.67	2.51	7.49	V
	5181	-53.55	-13	-40.55	-67.51	-60.02	2.98	9.45	V
	6912	-50.40	-13	-37.40	-67.43	-56.47	5.28	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	3453	-49.89	-13	-36.89	-58.27	-54.87	2.51	7.49	H
	5178	-53.56	-13	-40.56	-67.15	-60.03	2.98	9.45	H
	6903	-51.55	-13	-38.55	-68.34	-57.62	5.28	11.35	H
	3453	-53.57	-13	-40.57	-60.4	-58.55	2.51	7.49	V
	5178	-52.61	-13	-39.61	-66.57	-59.08	2.98	9.45	V
	6903	-51.88	-13	-38.88	-68.91	-57.95	5.28	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	-48.68	-13	-35.68	-57.19	-53.66	2.51	7.49	H
	5172	-54.11	-13	-41.11	-67.70	-60.58	2.98	9.45	H
	6903	-51.94	-13	-38.94	-68.73	-58.01	5.28	11.35	H
	3447	-53.06	-13	-40.06	-59.95	-58.04	2.51	7.49	V
	5171	-52.94	-13	-39.94	-66.9	-59.41	2.98	9.45	V
	6906	-48.82	-13	-35.82	-65.85	-54.89	5.28	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	-62.46	-13	-49.46	-62.31	-64.48	1.73	5.90	H
	2508	-59.85	-13	-46.85	-63.98	-62.39	2.11	6.80	H
	3345	-61.31	-13	-48.31	-66.39	-64.09	2.47	7.40	H
	1672	-59.99	-13	-46.99	-61.36	-62.01	1.73	5.90	V
	2509	-58.77	-13	-45.77	-64.26	-61.31	2.11	6.80	V
	3345	-60.92	-13	-47.92	-66.21	-63.70	2.47	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	-61.78	-13	-48.78	-61.86	-63.80	1.73	5.90	H
	2506	-59.31	-13	-46.31	-63.44	-61.85	2.11	6.80	H
	3341	-61.28	-13	-48.28	-66.36	-64.06	2.47	7.40	H
	1671	-60.32	-13	-47.32	-61.62	-62.34	1.73	5.90	V
	2506	-58.30	-13	-45.30	-63.79	-60.84	2.11	6.80	V
	3342	-60.58	-13	-47.58	-65.87	-63.36	2.47	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	-61.46	-13	-48.46	-61.56	-63.48	1.73	5.90	H
	2504	-59.57	-13	-46.57	-63.70	-62.11	2.11	6.80	H
	3337	-60.92	-13	-47.92	-66.00	-63.70	2.47	7.40	H
	1668	-61.35	-13	-48.35	-62.43	-63.37	1.73	5.90	V
	2503	-58.21	-13	-45.21	-63.7	-60.75	2.11	6.80	V
	3337	-60.55	-13	-47.55	-65.84	-63.33	2.47	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	-61.27	-13	-48.27	-61.37	-63.29	1.73	5.90	H
	2496	-59.82	-13	-46.82	-63.95	-62.36	2.11	6.80	H
	3328	-61.15	-13	-48.15	-66.23	-63.93	2.47	7.40	H
	1664	-61.32	-13	-48.32	-62.41	-63.34	1.73	5.90	V
	2496	-57.25	-13	-44.25	-62.74	-59.79	2.11	6.80	V
	3328	-60.16	-13	-47.16	-65.45	-62.94	2.47	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	-56.26	-13	-43.26	-56.73	-58.15	0.84	4.88	H
	2121	-58.80	-13	-45.80	-62.94	-61.44	1.14	5.93	H
	2828	-59.17	-13	-46.17	-63.90	-62.35	1.33	6.66	H
	1414	-54.97	-13	-41.97	-56.58	-56.86	0.84	4.88	V
	2121	-56.36	-13	-43.36	-61.46	-59.00	1.14	5.93	V
	2828	-57.10	-13	-44.10	-64.14	-60.28	1.33	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	-55.13	-13	-42.13	-55.85	-57.02	0.84	4.88	H
	2118	-58.48	-13	-45.48	-62.62	-61.12	1.14	5.93	H
	2824	-58.61	-13	-45.61	-63.34	-61.79	1.33	6.66	H
	1412	-51.66	-13	-38.66	-53.53	-53.55	0.84	4.88	V
	2118	-57.55	-13	-44.55	-62.65	-60.19	1.14	5.93	V
	2824	-57.67	-13	-44.67	-64.71	-60.85	1.33	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	-55.61	-13	-42.61	-56.19	-57.50	0.84	4.88	H
	2116	-58.77	-13	-45.77	-62.91	-61.41	1.14	5.93	H
	2822	-58.78	-13	-45.78	-63.51	-61.96	1.33	6.66	H
	1410	-53.01	-13	-40.01	-54.83	-54.90	0.84	4.88	V
	2116	-57.70	-13	-44.70	-62.8	-60.34	1.14	5.93	V
	2822	-55.67	-13	-42.67	-62.71	-58.85	1.33	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	-53.43	-13	-40.43	-54.29	-55.32	0.84	4.88	H
	2107	-58.92	-13	-45.92	-63.06	-61.56	1.14	5.93	H
	2814	-58.62	-13	-45.62	-63.35	-61.80	1.33	6.66	H
	1406	-50.94	-13	-37.94	-52.93	-52.83	0.84	4.88	V
	2108	-57.98	-13	-44.98	-63.08	-60.62	1.14	5.93	V
	2814	-55.93	-13	-42.93	-62.97	-59.11	1.33	6.66	V

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



Appendix D. Product Equality Declaration

ZTE CORPORATION

Product Change Description

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

[Z968]

[ZTE Corporation]

is the variant of the initial certified product,

[Z959]

[ZTE Corporation]

SOFTWARE MODIFICATIONS:

Protocol Stack changes: NO

MMS/STK changes: NO

JAVA changes: NO

Other changes detailed: LTE B2+B12 CA, B4+B12 CA, NFC

HARDWARE MODIFICATION:

Band changes: NO

Power Amplifier changes: YES

Antenna changes: YES

PCB Layout changes: YES

Components on PCB changes: YES(CA,NFC)

LCD changes: NO

Speaker changes: NO

Camera changes: NO

Vibrator changes: NO

Bluetooth changes: NO

FM changes: ?(Z968 has FM)

Other changes: Touchscreen

MECHANICAL MODIFICATIONS:

Use new metal front/back cover or keypad: YES

Mechanical shell changes: YES

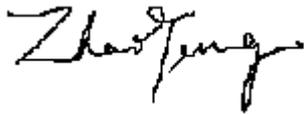
Other changes detailed: NO

ACCESSORY MODIFICATIONS:

Battery changes: NO

AC Adaptor changes: NO

Earphone changes: NO



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