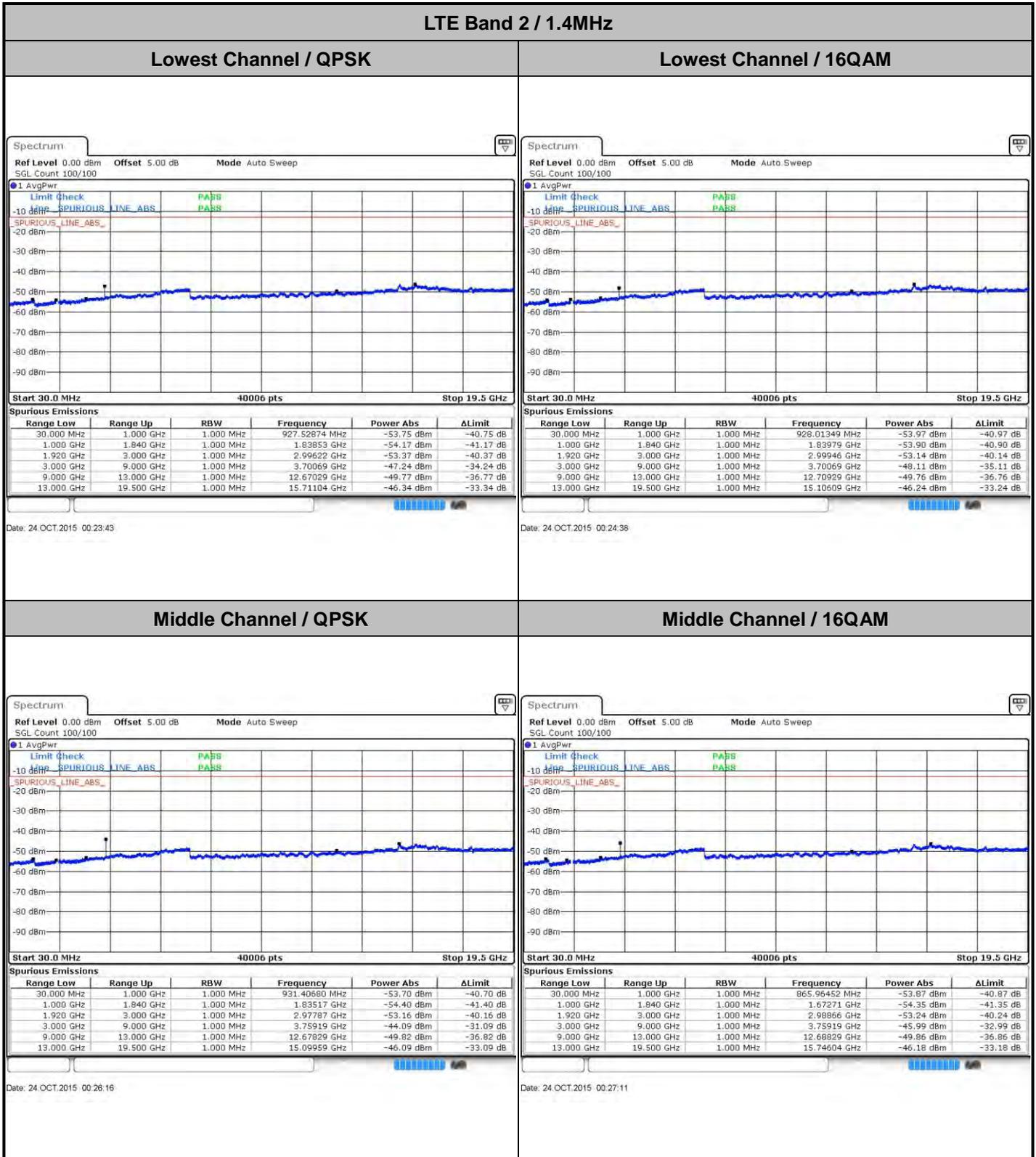




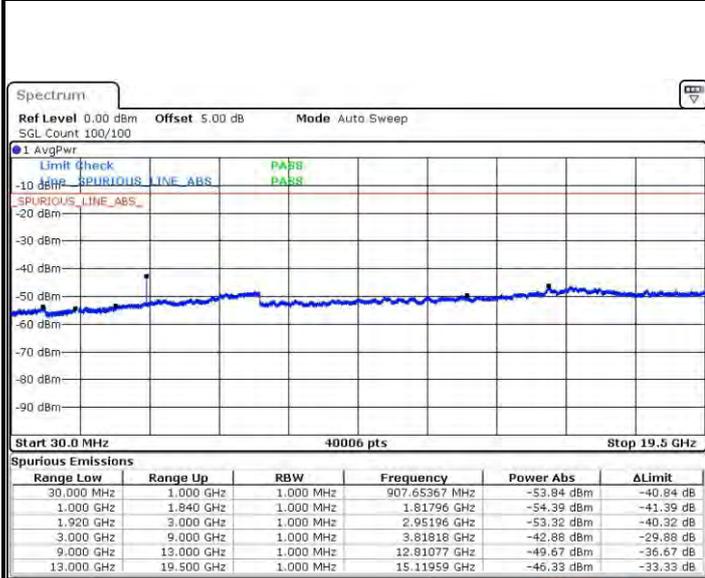
Conducted Spurious Emission





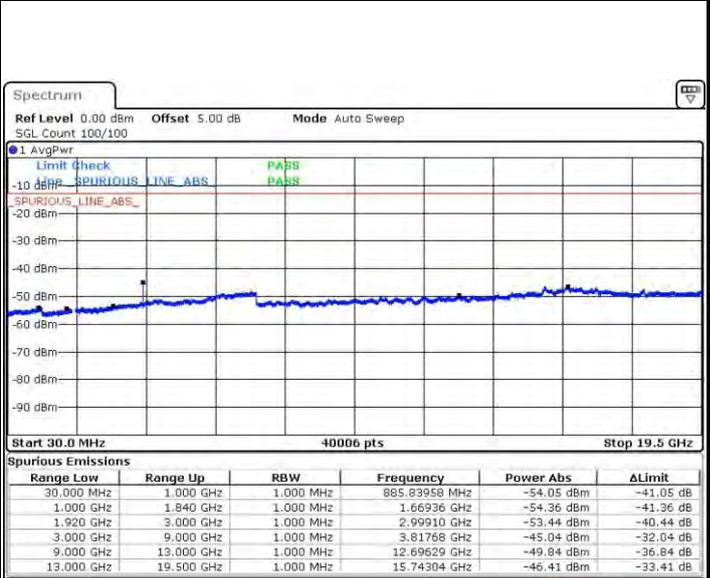
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 24.OCT.2015 00:33:21

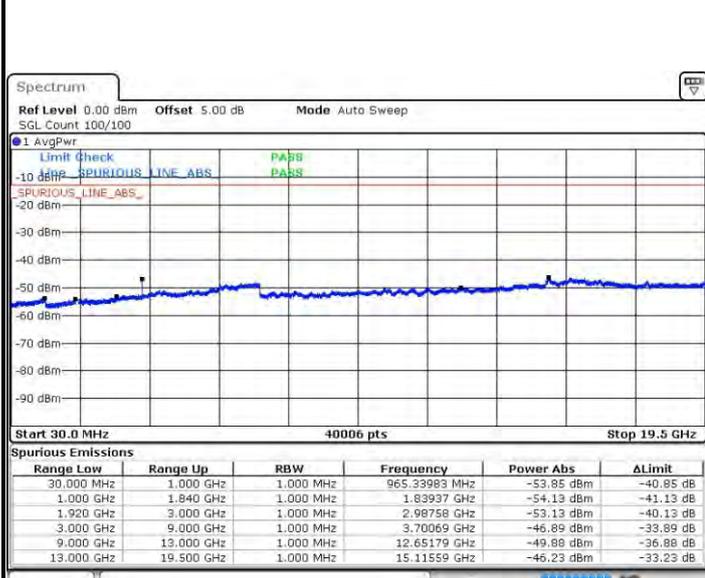
Highest Channel / 16QAM



Date: 24.OCT.2015 00:34:16

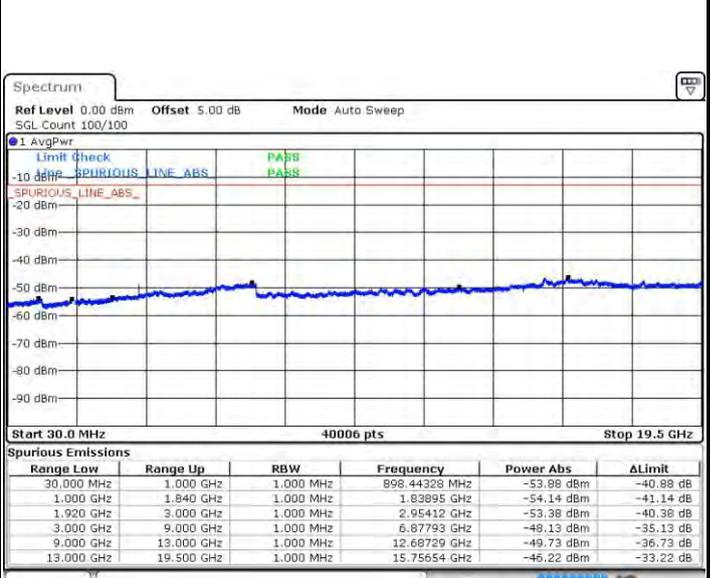
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 24.OCT.2015 00:40:26

Lowest Channel / 16QAM



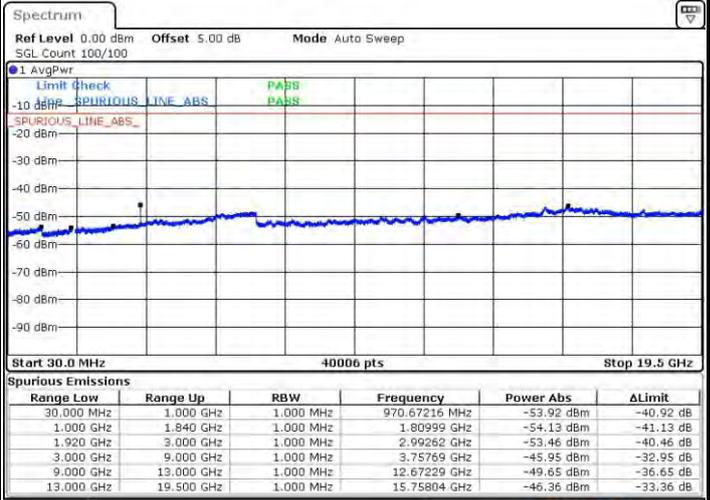
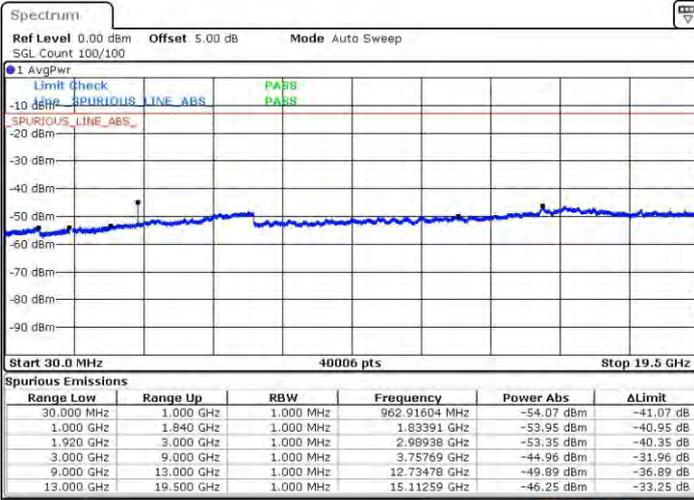
Date: 24.OCT.2015 00:41:21



LTE Band 2 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

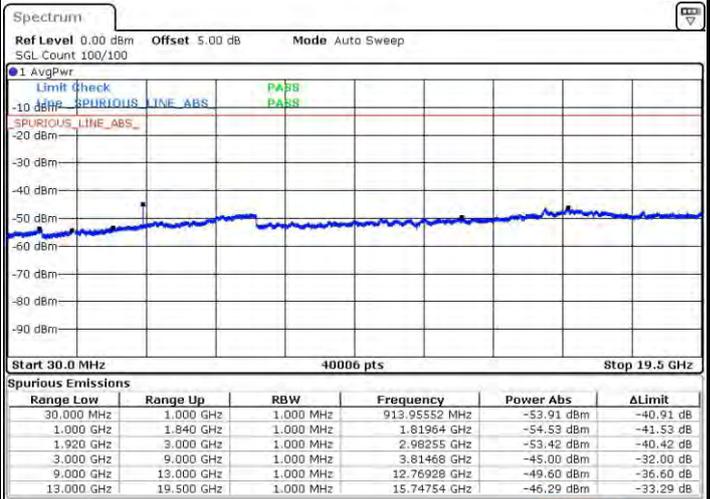
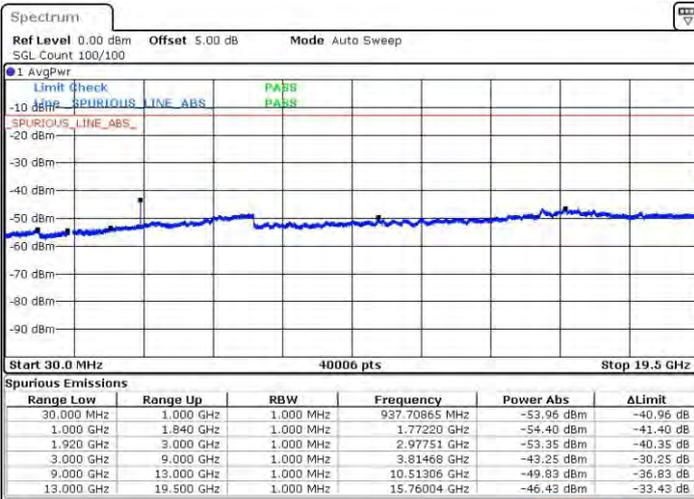


Date: 24.OCT.2015 00:42:59

Date: 24.OCT.2015 00:43:54

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24.OCT.2015 00:50:04

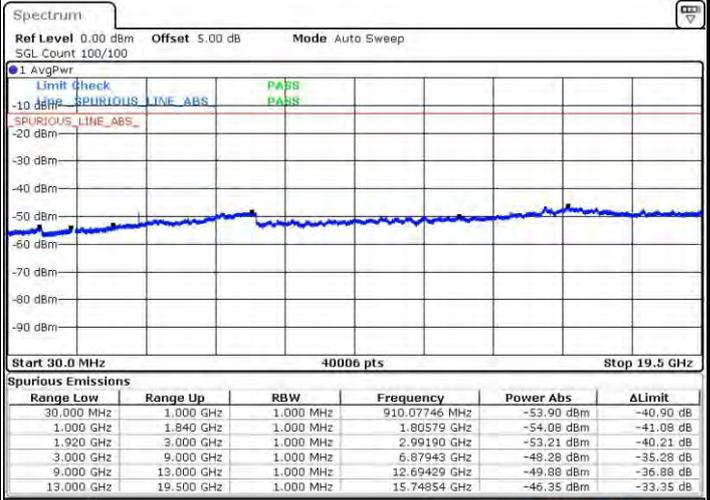
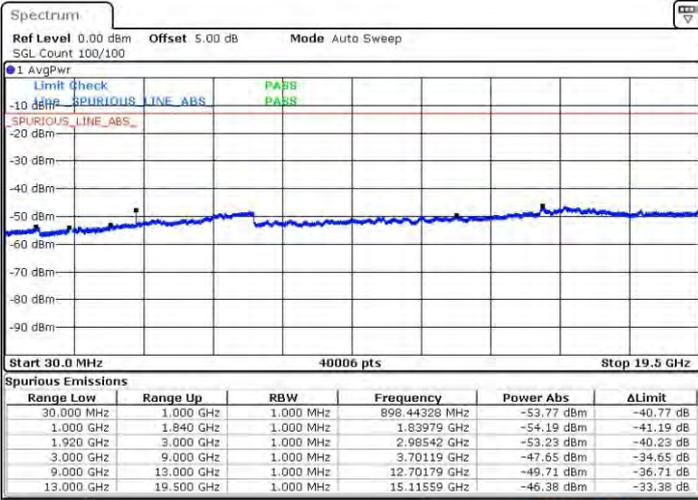
Date: 24.OCT.2015 00:51:00



LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

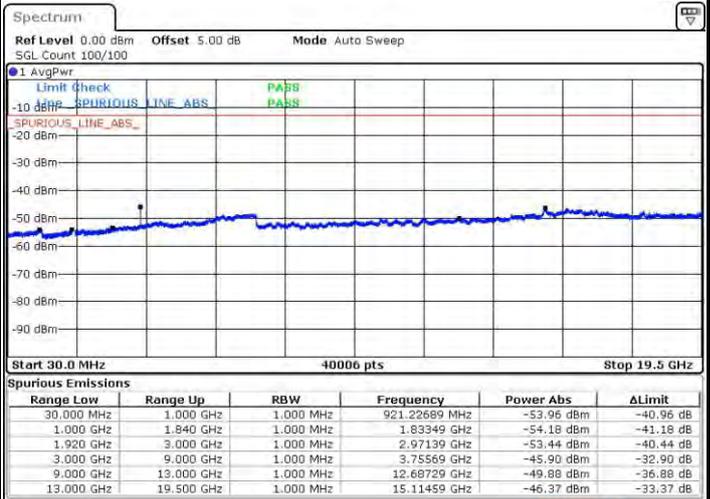
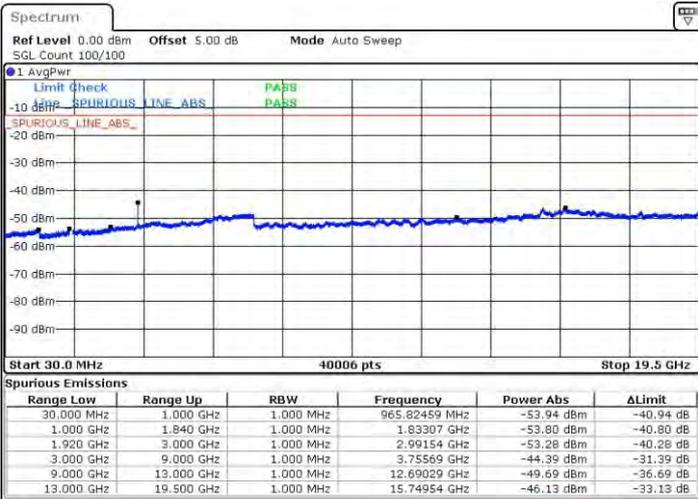


Date: 24.OCT.2015 00:57:10

Date: 24.OCT.2015 00:58:05

Middle Channel / QPSK

Middle Channel / 16QAM



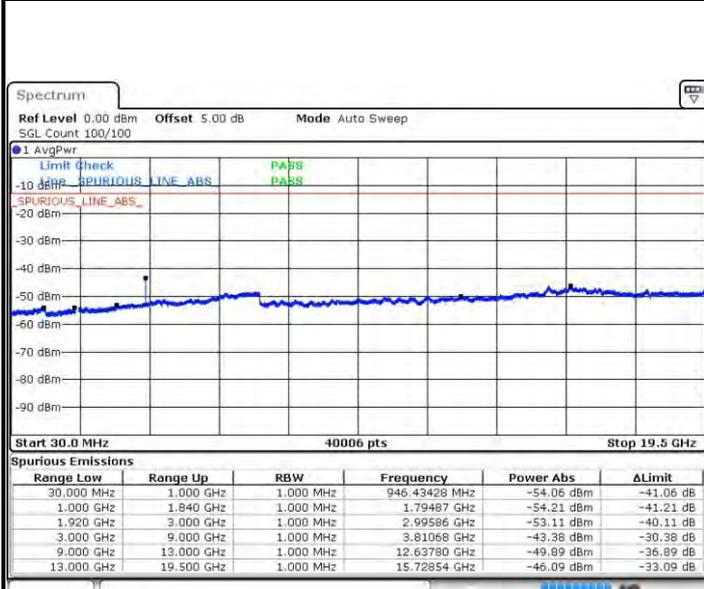
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Date: 24.OCT.2015 01:00:38



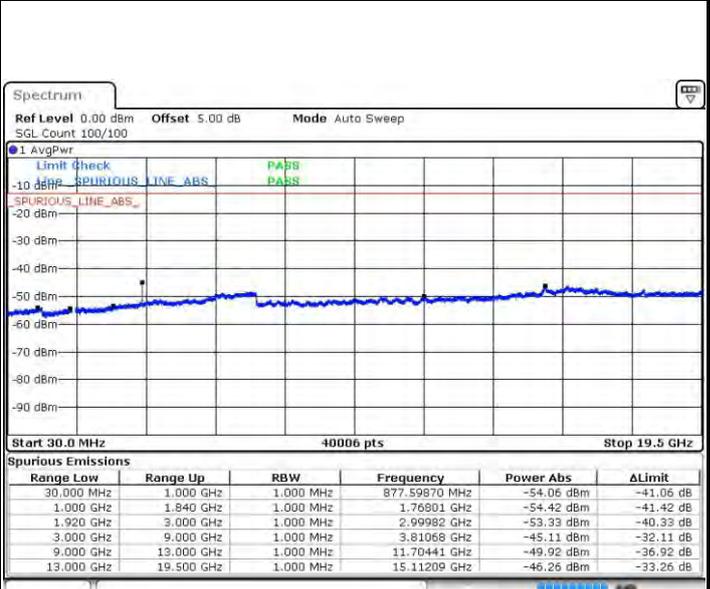
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 24.OCT.2015 01:06:48

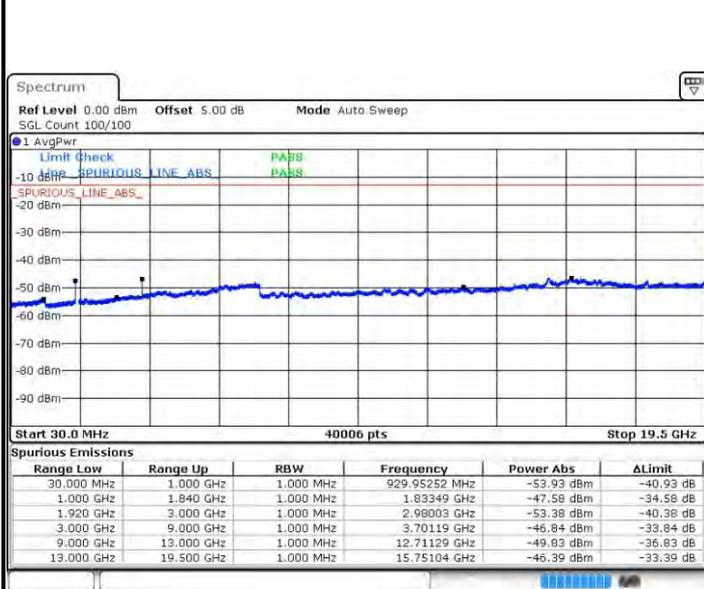
Highest Channel / 16QAM



Date: 24.OCT.2015 01:07:43

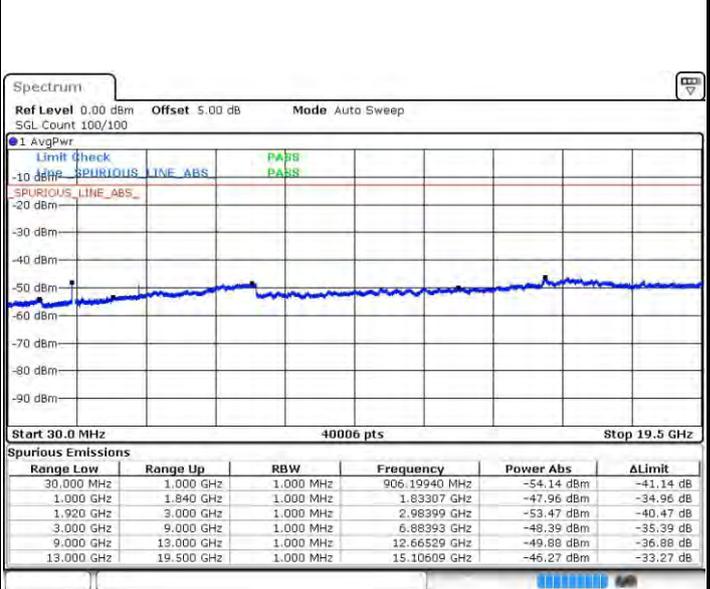
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 24.OCT.2015 01:13:53

Lowest Channel / 16QAM



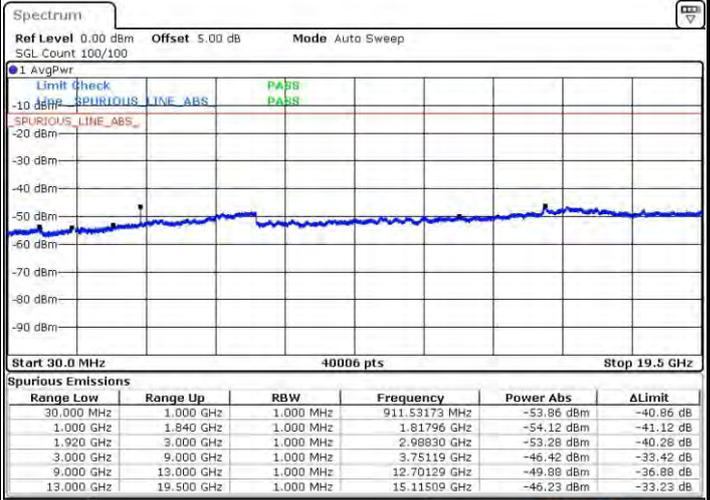
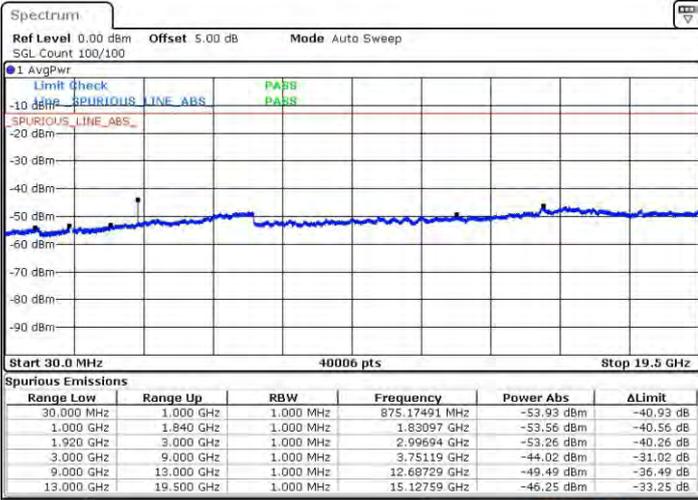
Date: 24.OCT.2015 01:14:49



LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

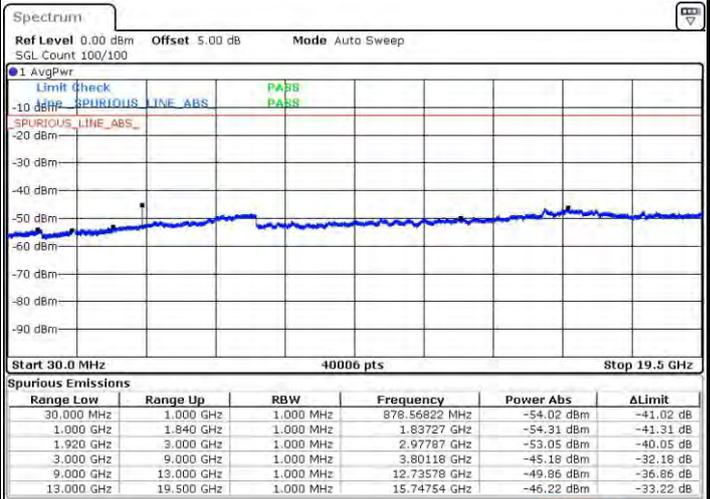
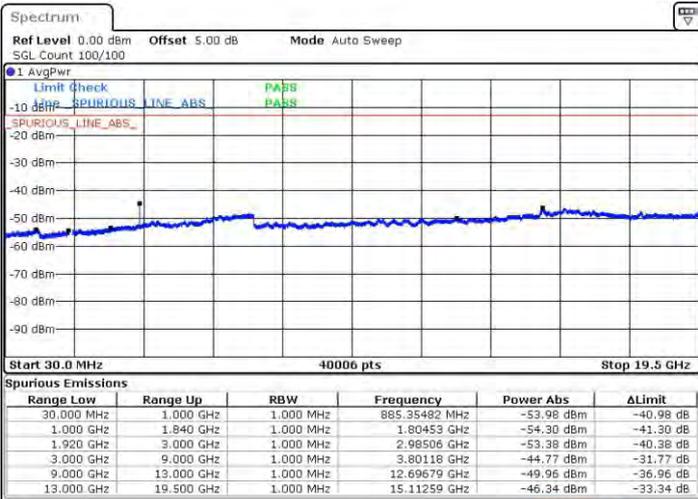


Date: 24.OCT.2015 01:16:26

Date: 24.OCT.2015 01:17:22

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24.OCT.2015 01:23:31

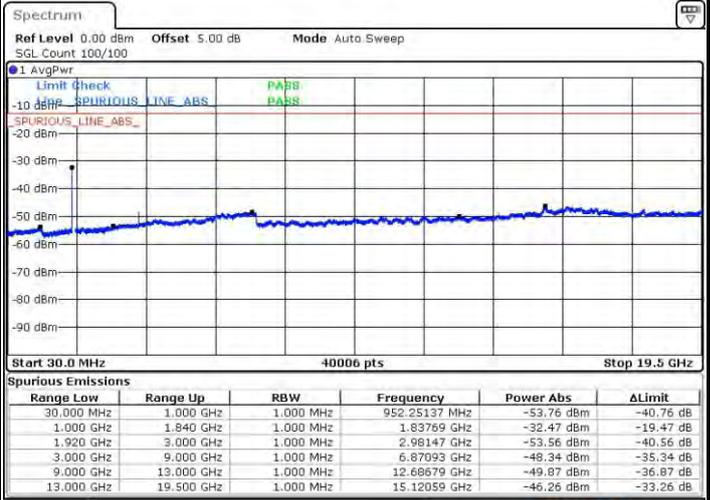
Date: 24.OCT.2015 01:24:27



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

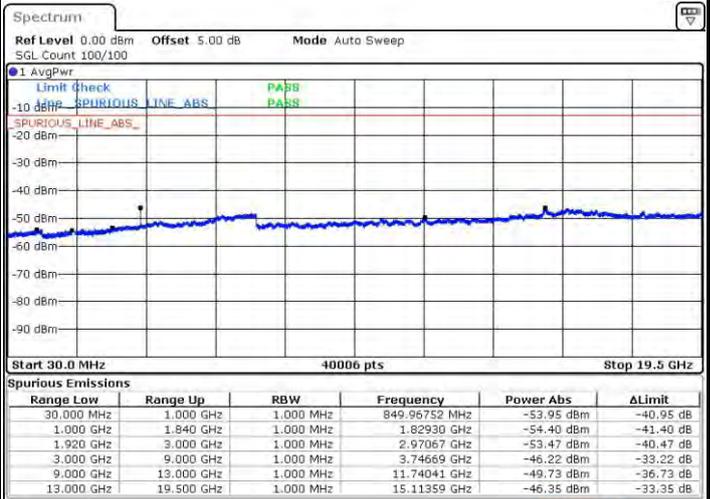
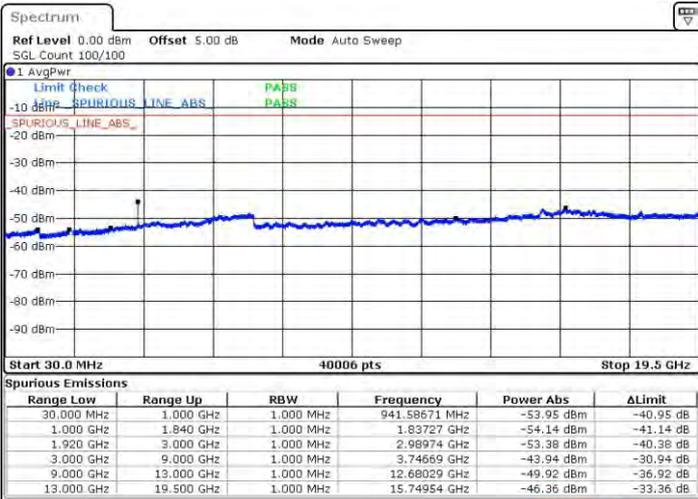


Date: 24.OCT.2015 01:30:37

Date: 24.OCT.2015 01:31:32

Middle Channel / QPSK

Middle Channel / 16QAM



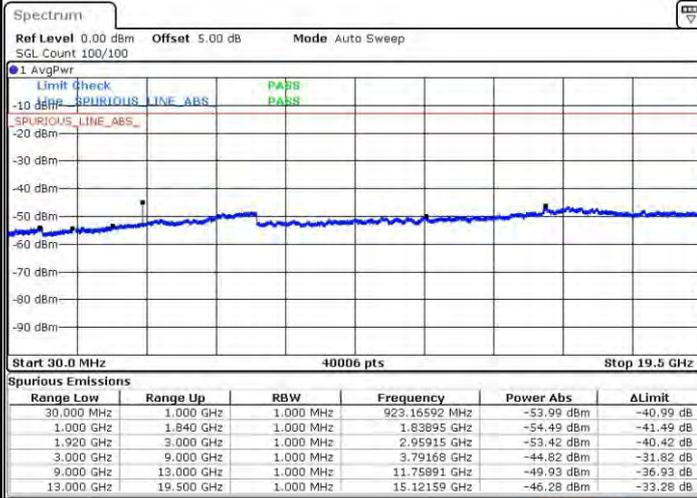
Date: 24.OCT.2015 01:33:10

Date: 24.OCT.2015 01:34:05



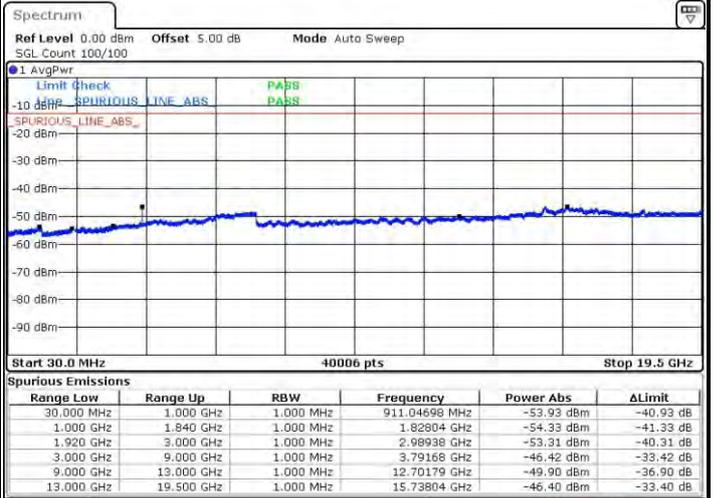
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 24.OCT.2015 01:40:15

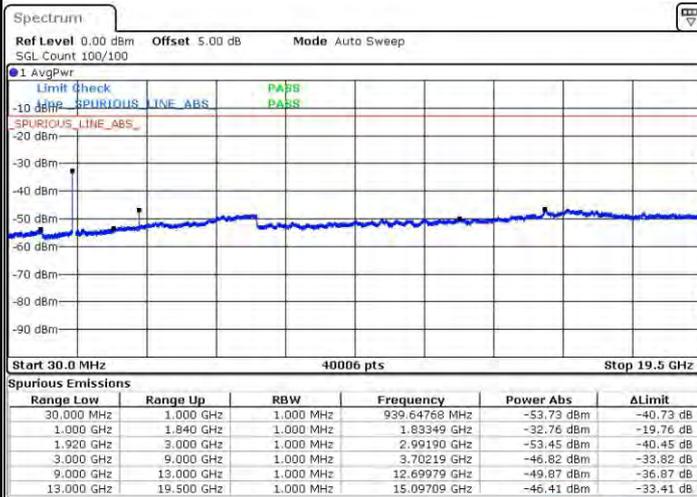
Highest Channel / 16QAM



Date: 24.OCT.2015 01:41:10

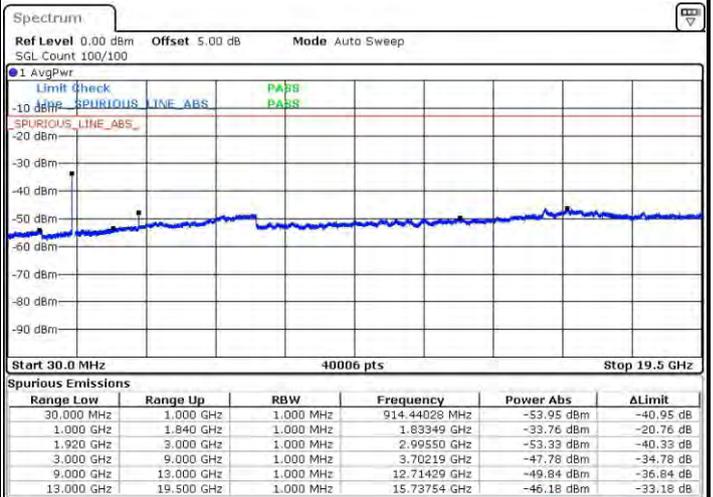
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 24.OCT.2015 01:47:20

Lowest Channel / 16QAM

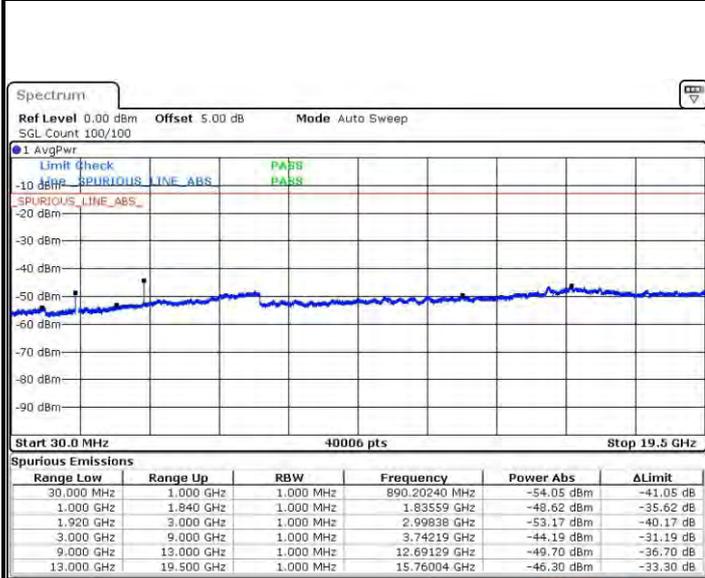


Date: 24.OCT.2015 01:48:15



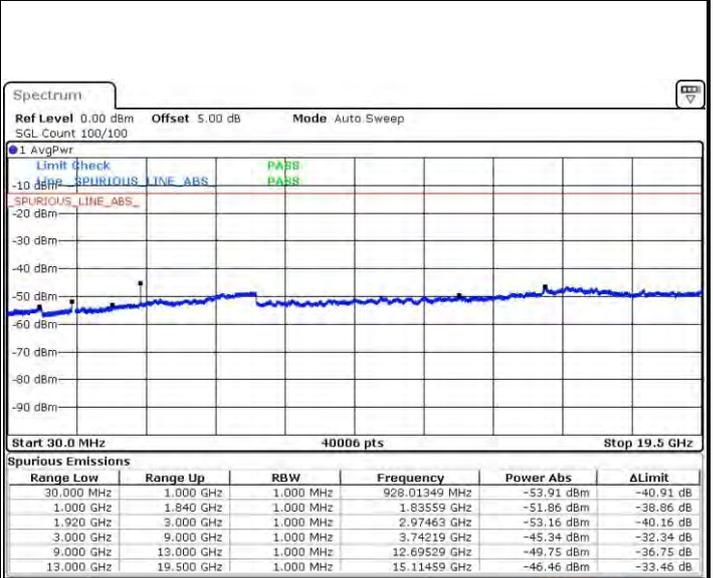
LTE Band 2 / 20MHz

Middle Channel / QPSK



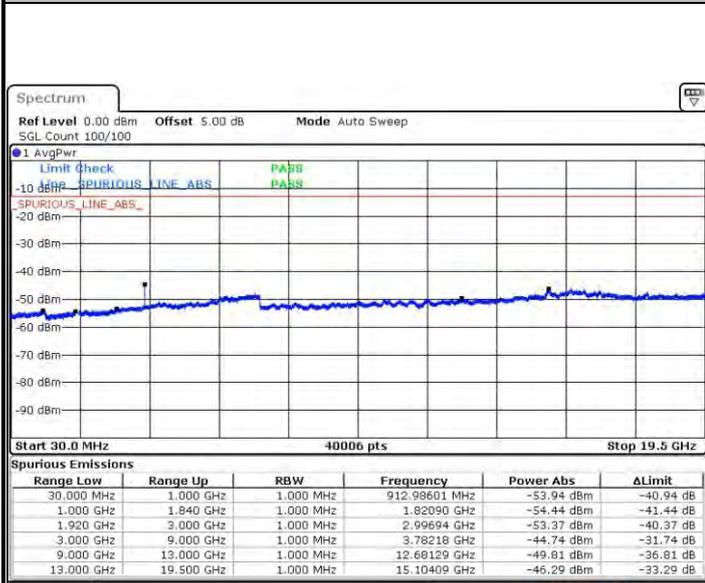
Date: 24.OCT.2015 01:49:53

Middle Channel / 16QAM



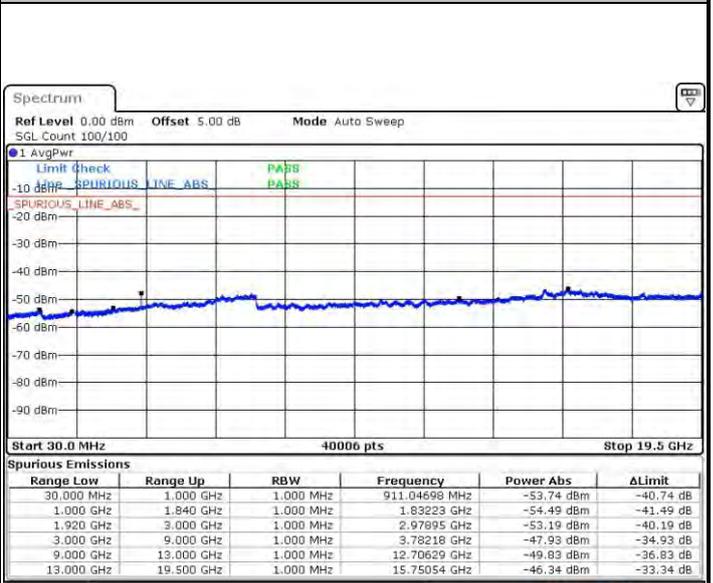
Date: 24.OCT.2015 01:50:48

Highest Channel / QPSK



Date: 24.OCT.2015 01:58:58

Highest Channel / 16QAM



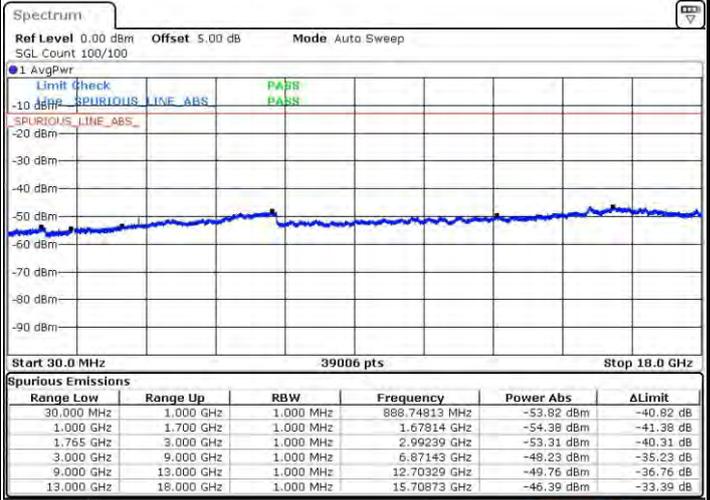
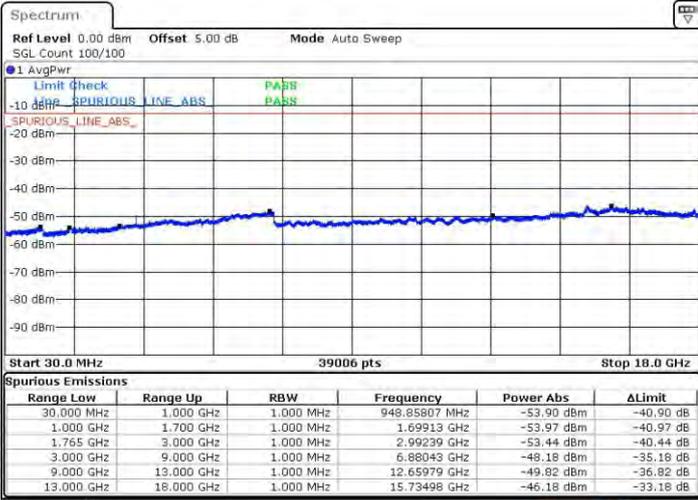
Date: 24.OCT.2015 01:57:53



LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

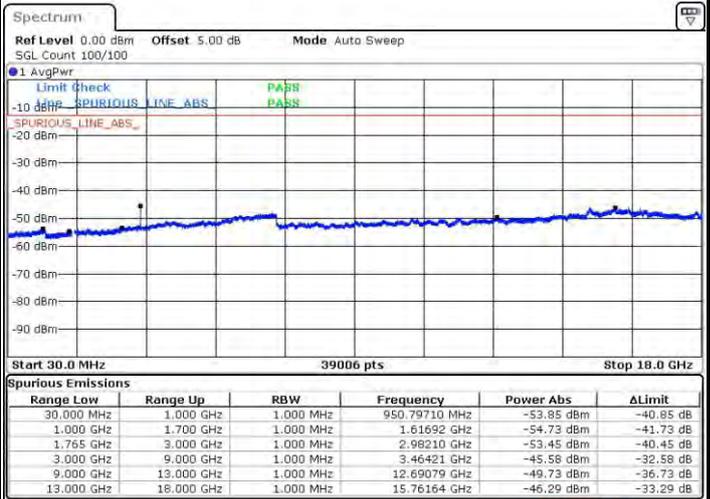
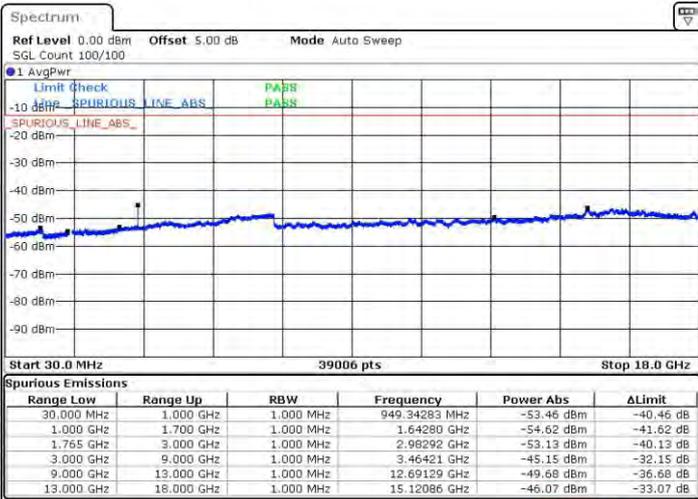


Date: 24.OCT.2015 10:50:55

Date: 24.OCT.2015 10:51:50

Middle Channel / QPSK

Middle Channel / 16QAM



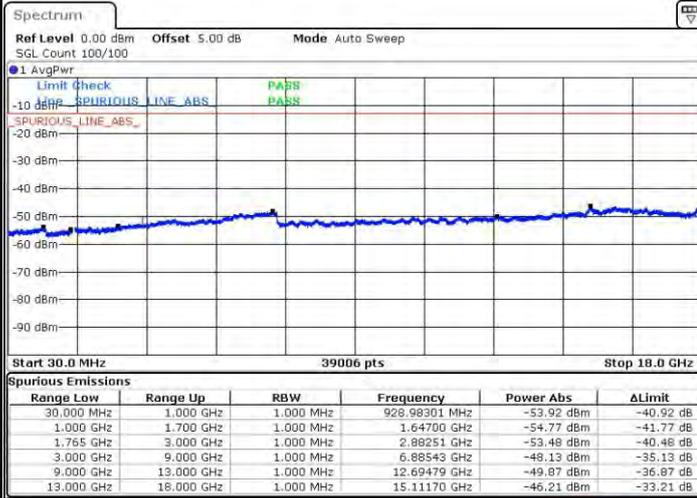
Date: 24.OCT.2015 10:53:28

Date: 24.OCT.2015 10:54:23



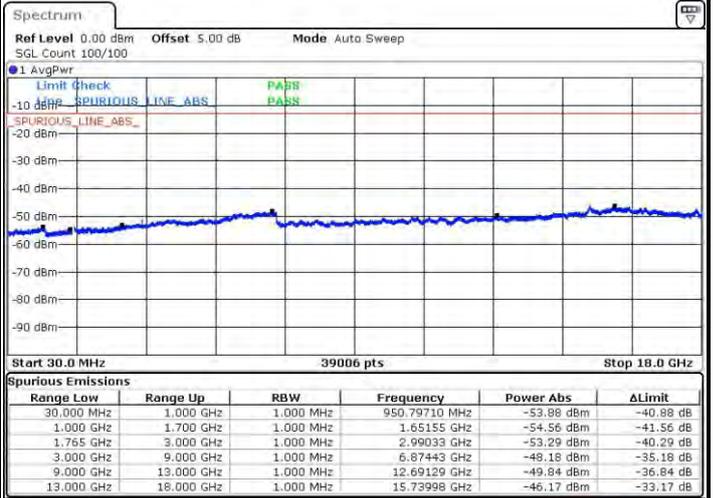
LTE Band 4 / 1.4MHz

Highest Channel / QPSK



Date: 24.OCT.2015 11:00:33

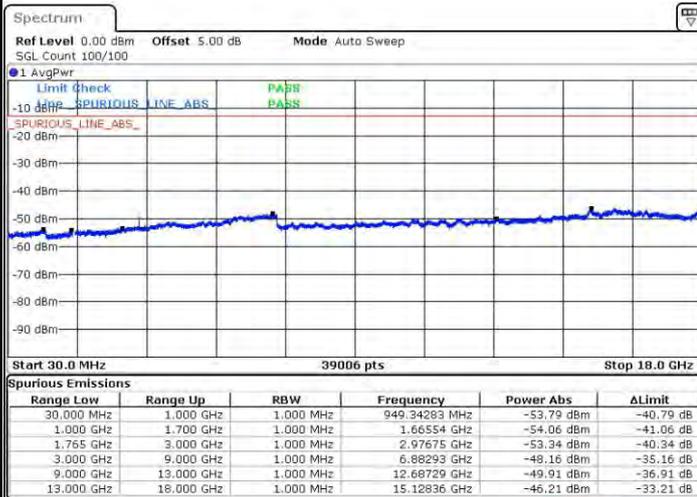
Highest Channel / 16QAM



Date: 24.OCT.2015 11:01:28

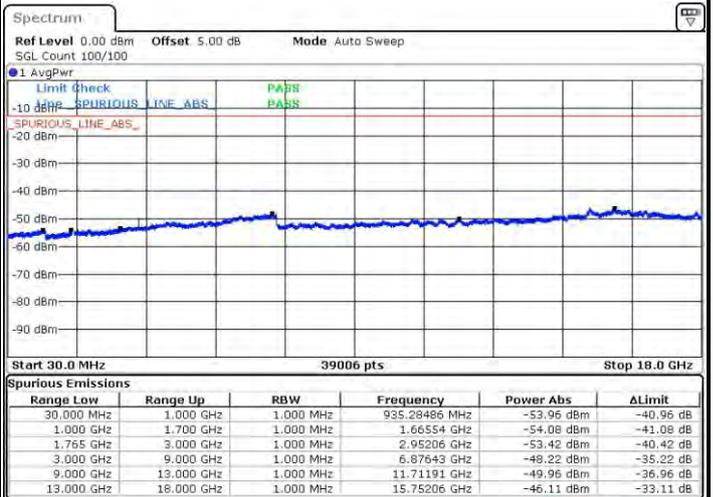
LTE Band 4 / 3MHz

Lowest Channel / QPSK



Date: 24.OCT.2015 11:07:38

Lowest Channel / 16QAM



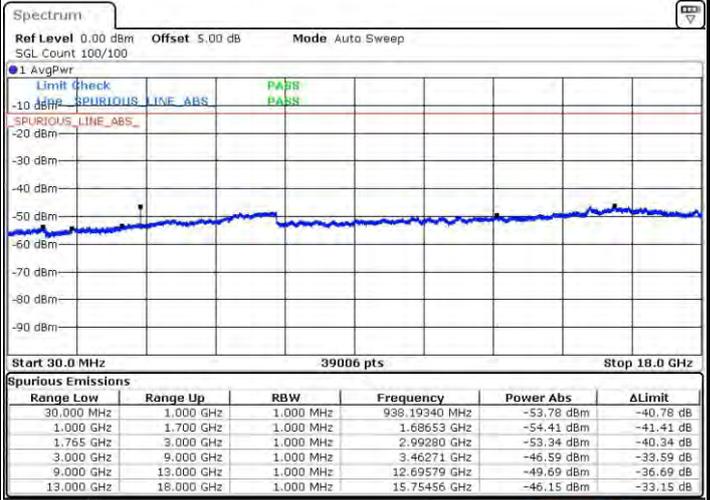
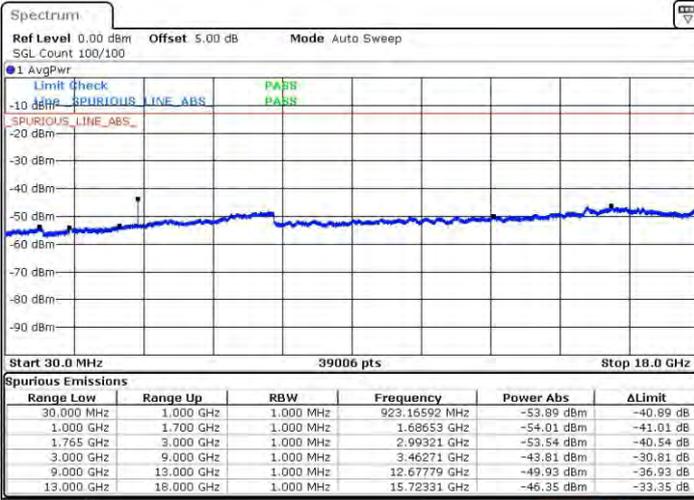
Date: 24.OCT.2015 11:08:34



LTE Band 4 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

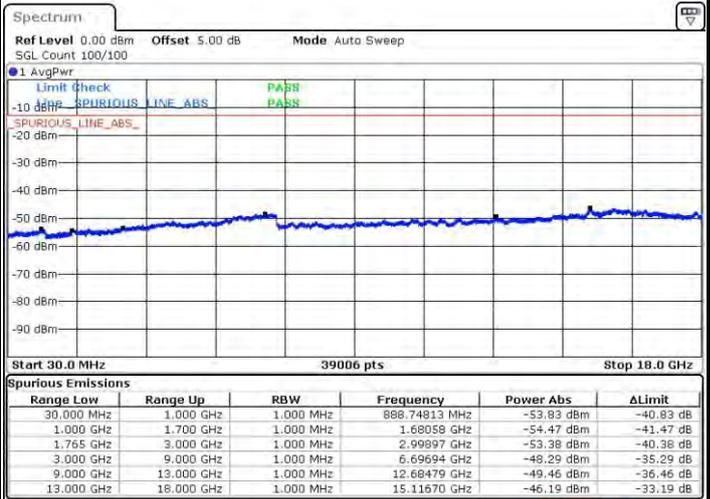
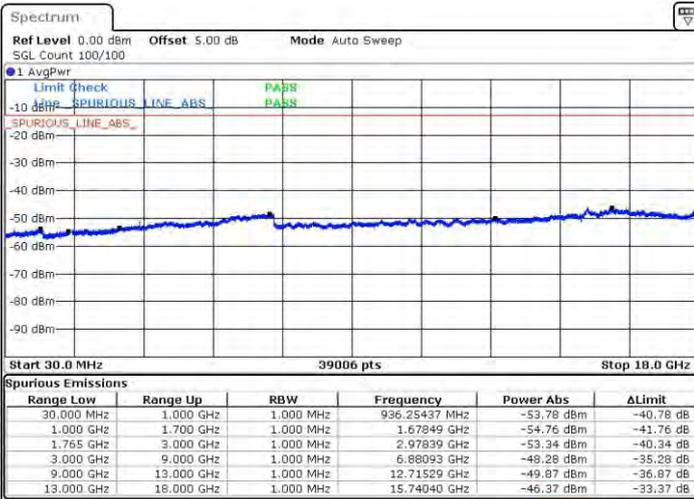


Date: 24.OCT.2015 11:10:11

Date: 24.OCT.2015 11:11:07

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24.OCT.2015 11:17:17

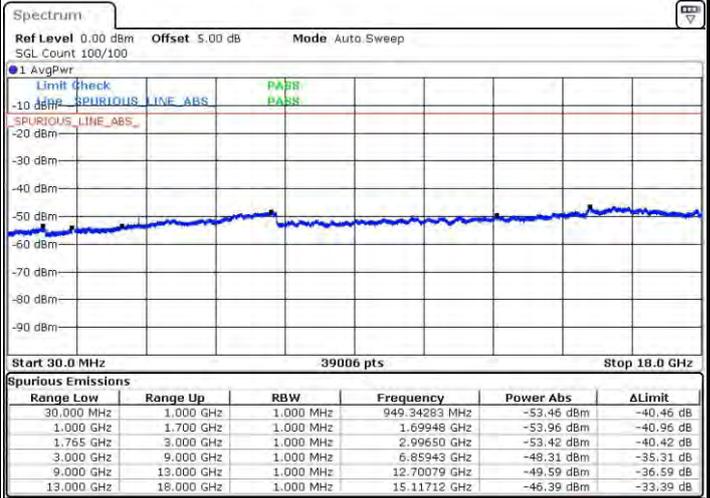
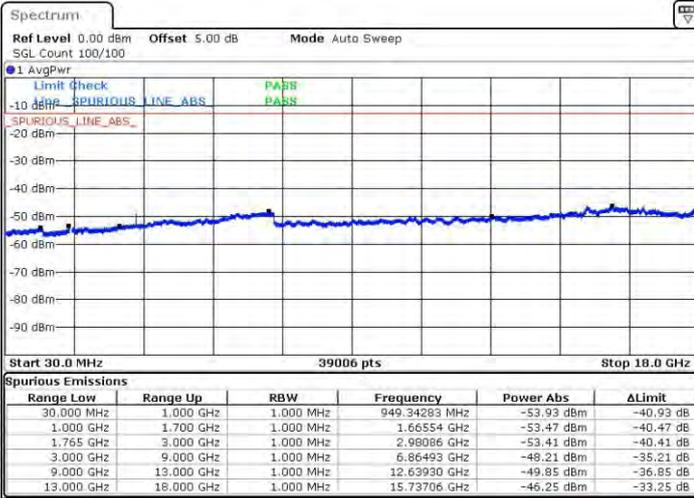
Date: 24.OCT.2015 11:18:12



LTE Band 4 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

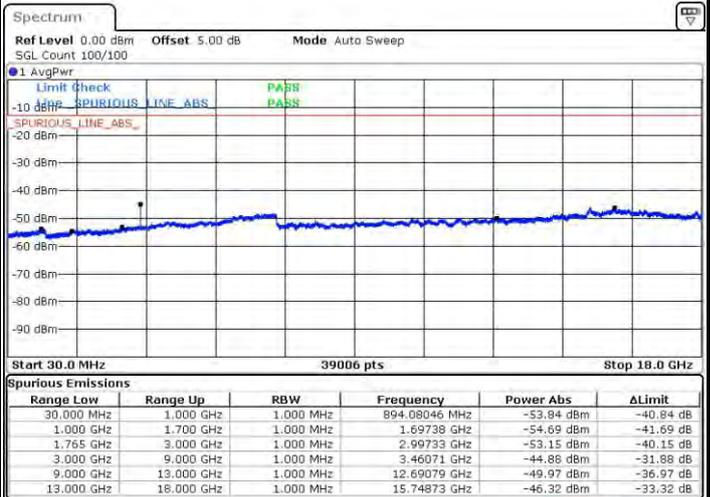
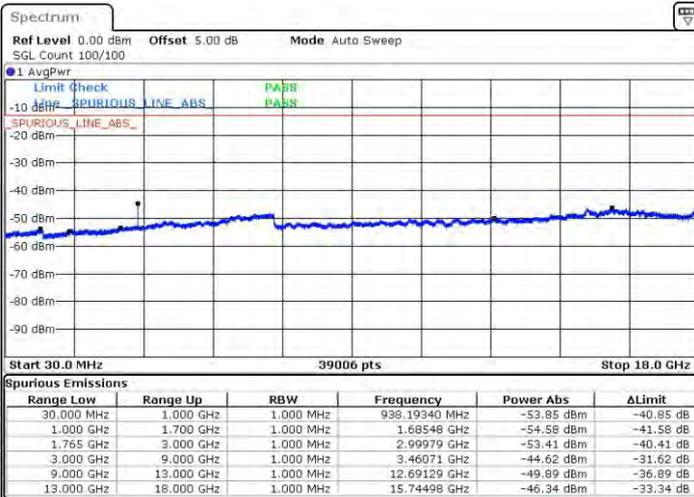


Date: 24.OCT.2015 11:24:22

Date: 24.OCT.2015 11:25:17

Middle Channel / QPSK

Middle Channel / 16QAM



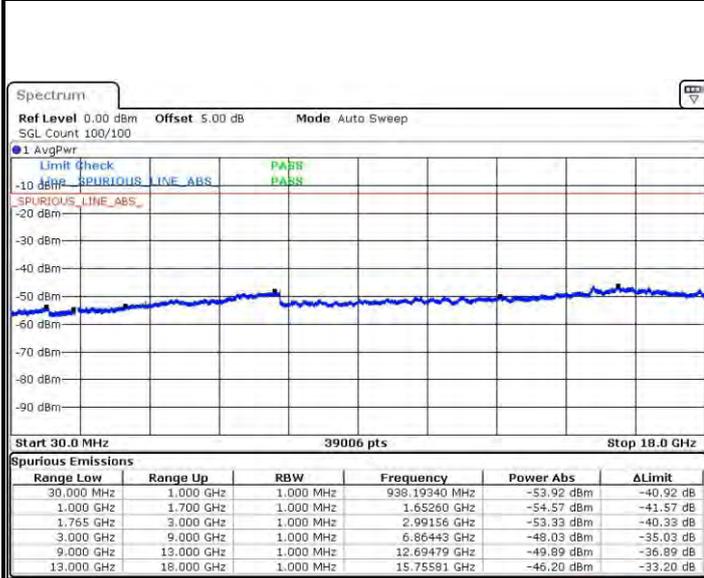
Date: 24.OCT.2015 11:28:55

Date: 24.OCT.2015 11:27:50



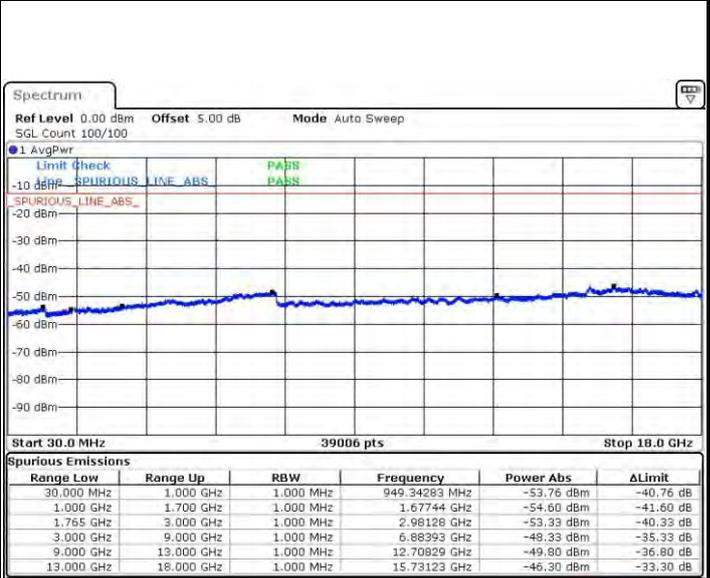
LTE Band 4 / 5MHz

Highest Channel / QPSK



Date: 24.OCT.2015 11:34:00

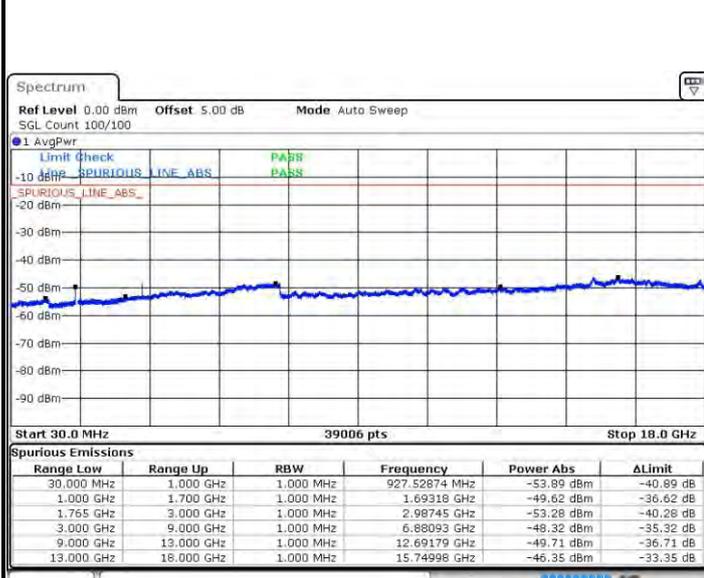
Highest Channel / 16QAM



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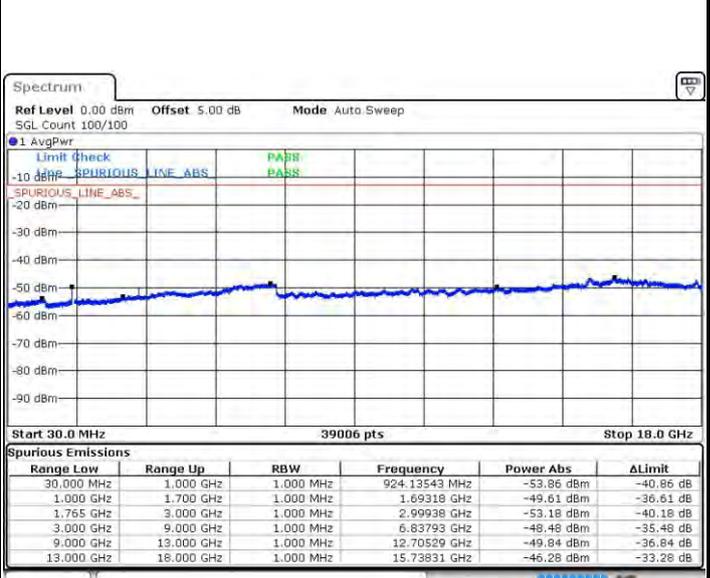
LTE Band 4 / 10MHz

Lowest Channel / QPSK



Date: 24.OCT.2015 11:41:05

Lowest Channel / 16QAM



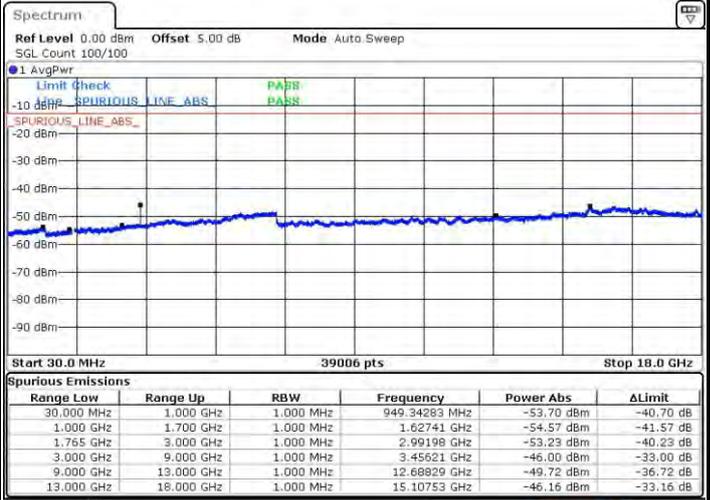
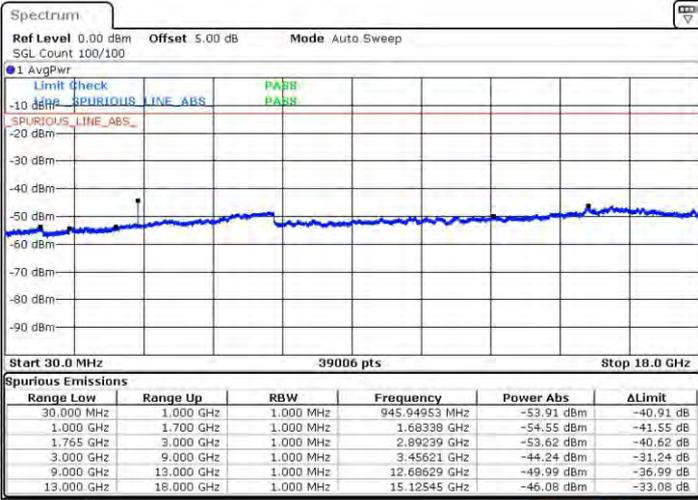
Date: 24.OCT.2015 11:42:00



LTE Band 4 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

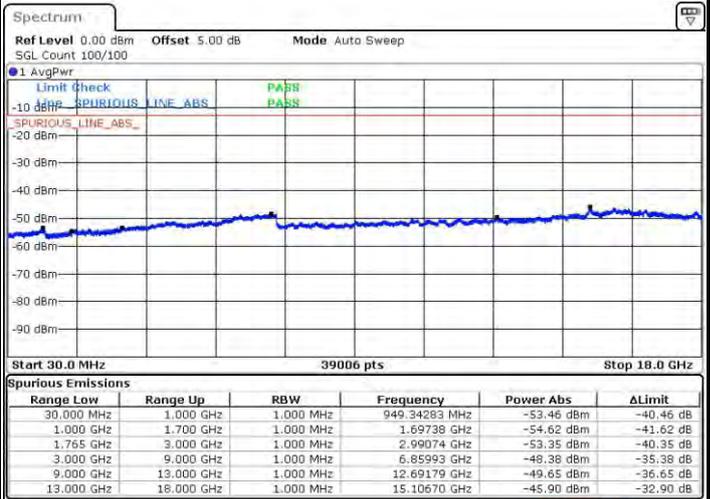
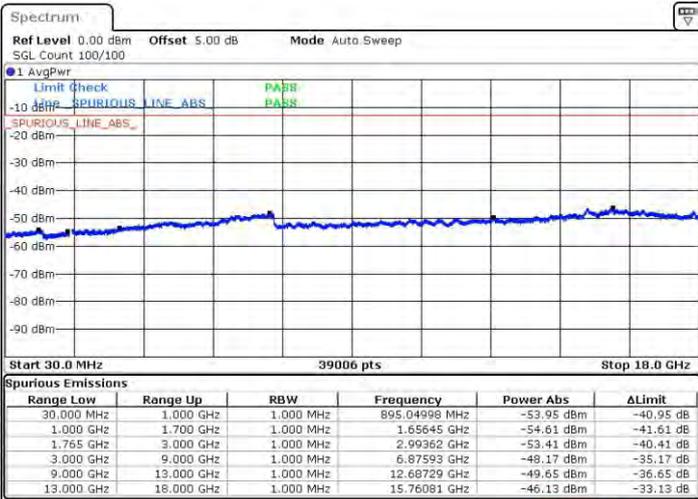


Date: 24.OCT.2015 11:43:38

Date: 24.OCT.2015 11:44:33

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24.OCT.2015 11:50:43

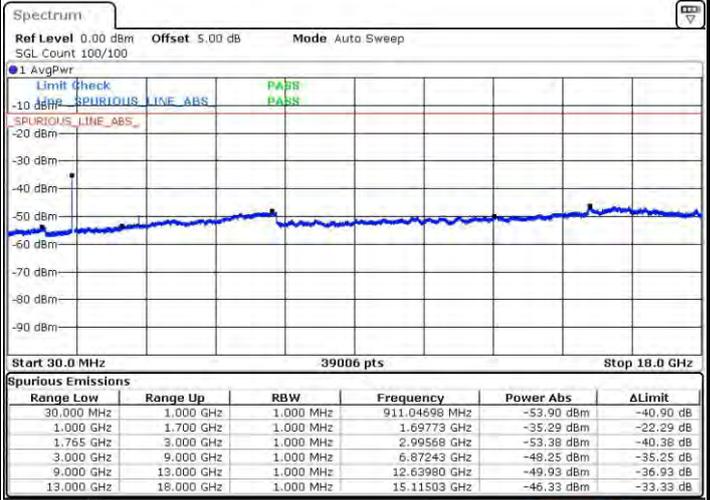
Date: 24.OCT.2015 11:51:39



LTE Band 4 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

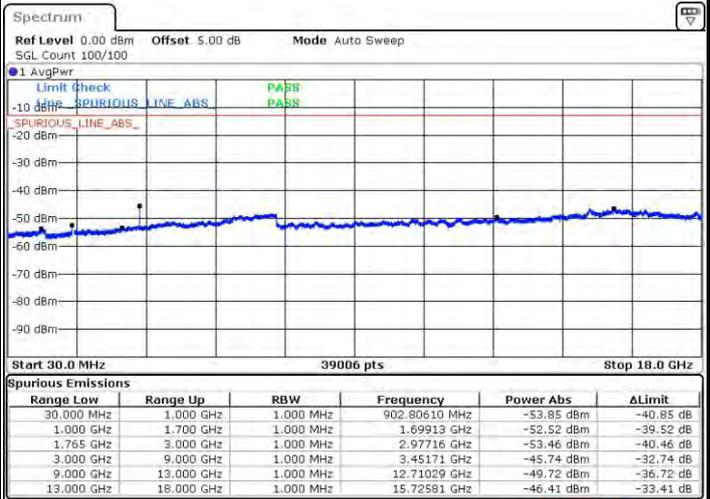
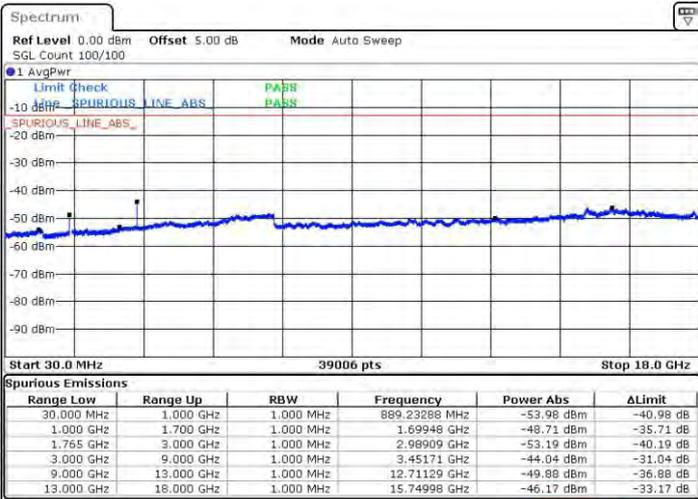


Date: 24.OCT.2015 11:57:48

Date: 24.OCT.2015 11:58:44

Middle Channel / QPSK

Middle Channel / 16QAM



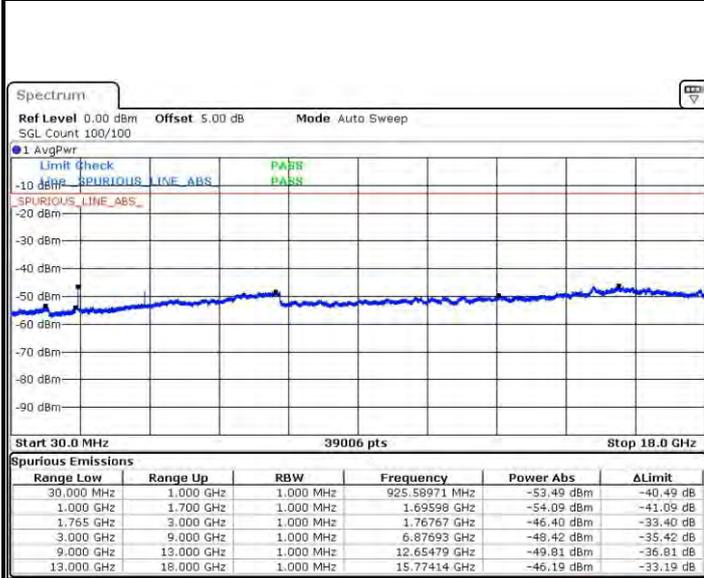
Date: 24.OCT.2015 12:00:21

Date: 24.OCT.2015 12:01:17



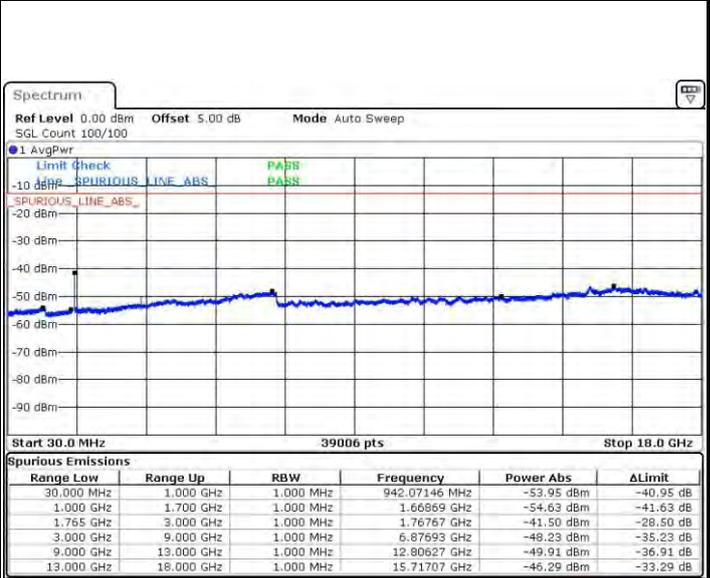
LTE Band 4 / 15MHz

Highest Channel / QPSK



Date: 24.OCT.2015 12:07:26

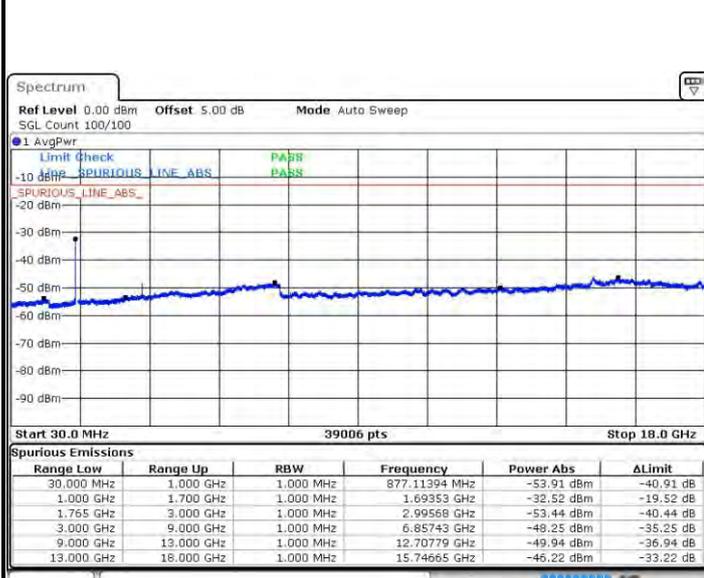
Highest Channel / 16QAM



Date: 24.OCT.2015 12:08:21

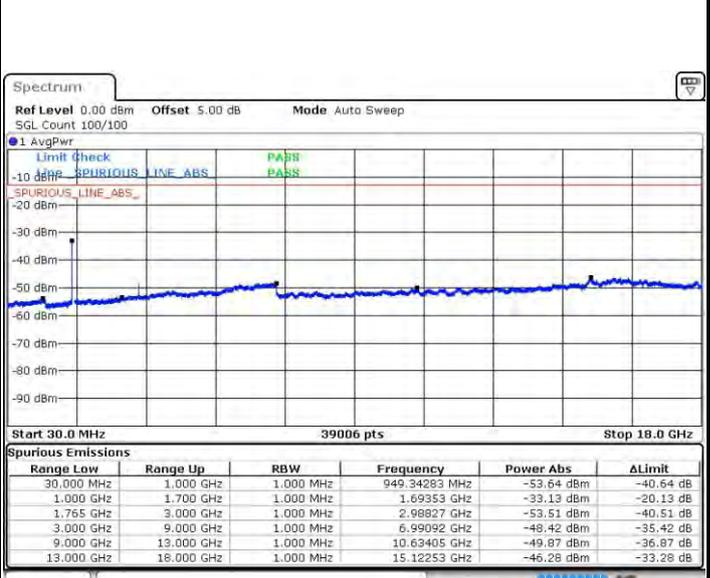
LTE Band 4 / 20MHz

Lowest Channel / QPSK



Date: 24.OCT.2015 12:14:31

Lowest Channel / 16QAM



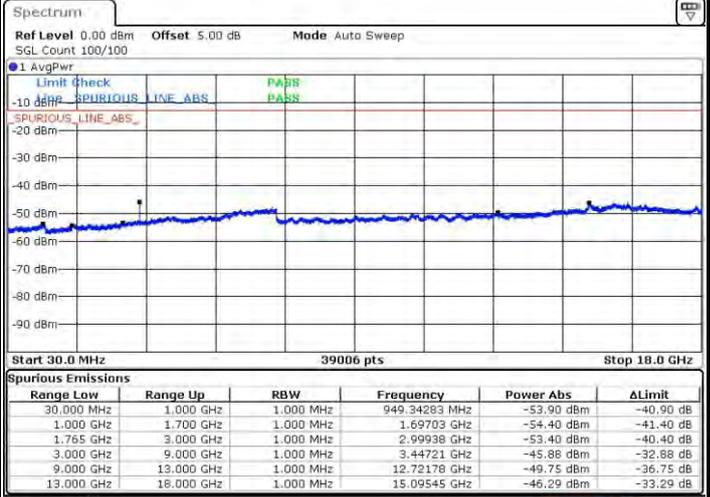
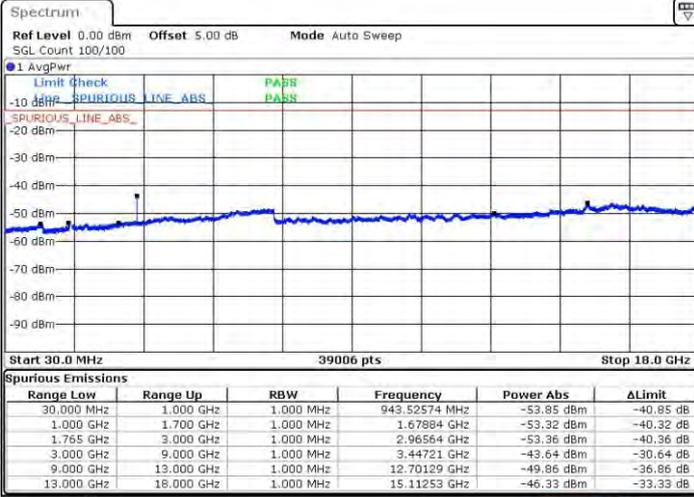
Date: 24.OCT.2015 12:15:27



LTE Band 4 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

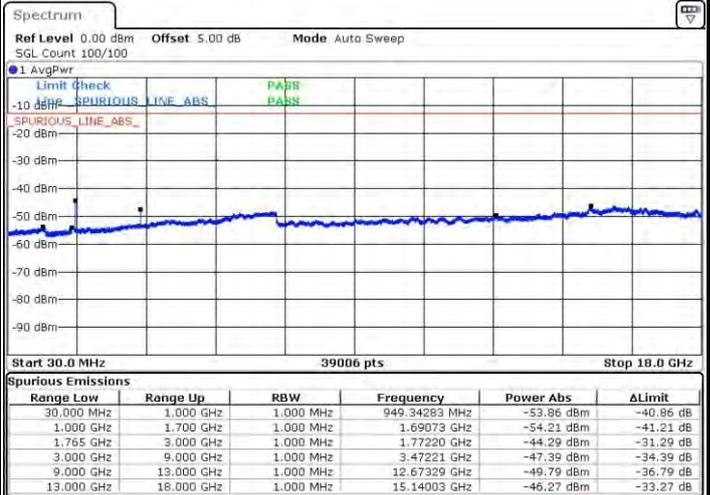
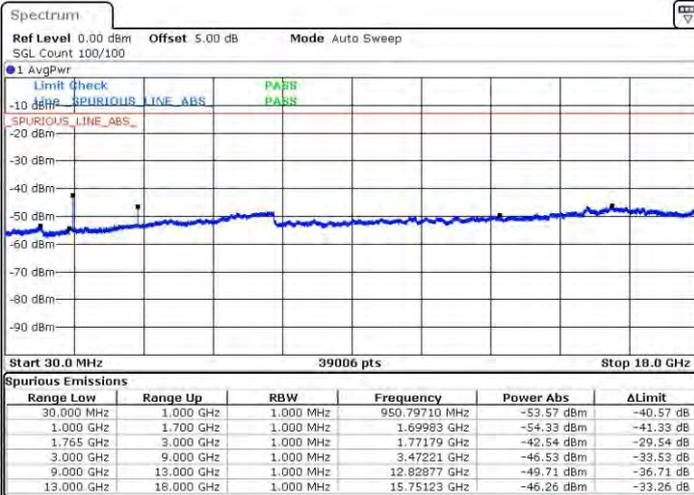


Date: 24.OCT.2015 12:17:04

Date: 24.OCT.2015 12:17:59

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24.OCT.2015 12:24:09

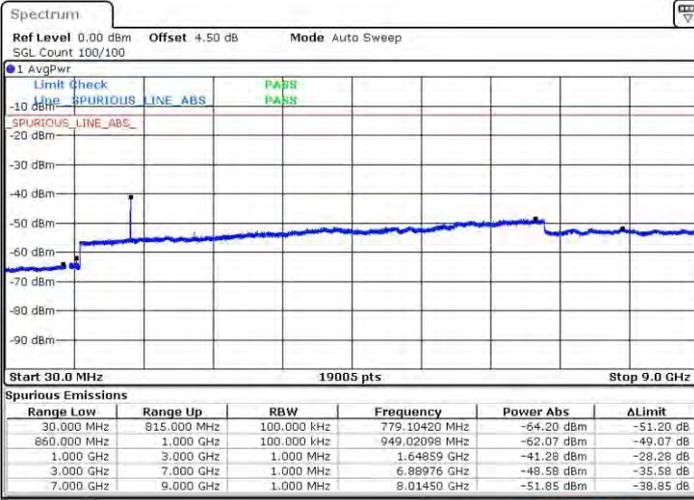
Date: 24.OCT.2015 12:25:04



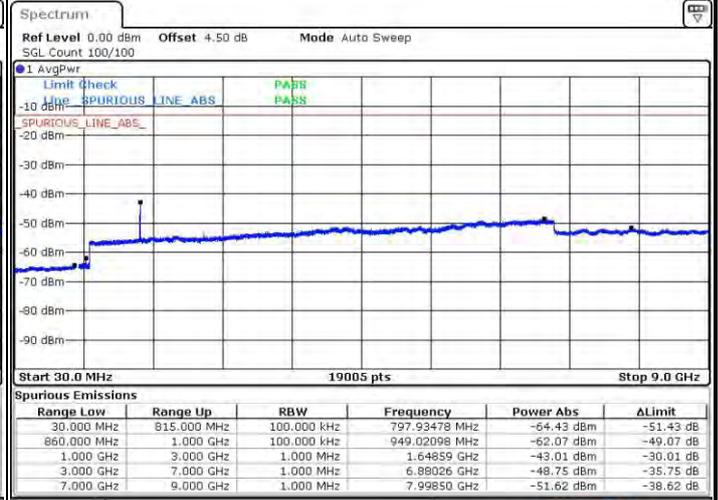
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



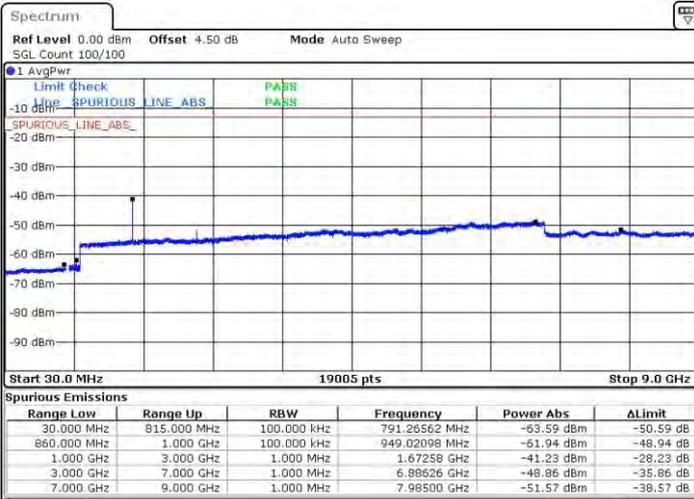
Date: 24.OCT.2015 13:50:06



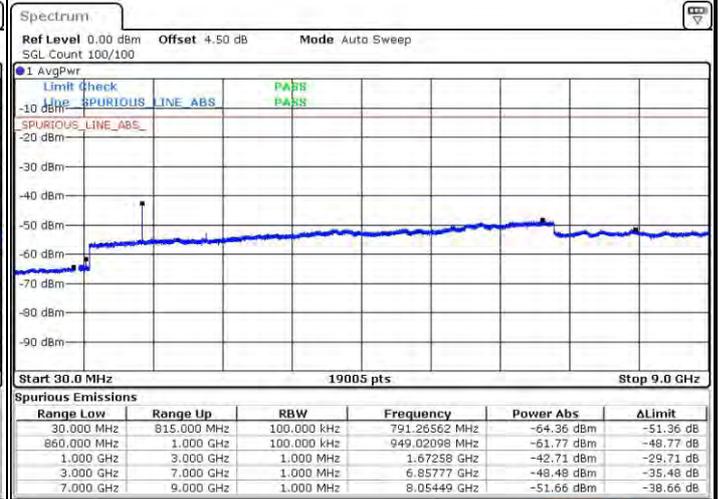
Date: 24.OCT.2015 13:51:03

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 24.OCT.2015 13:52:41

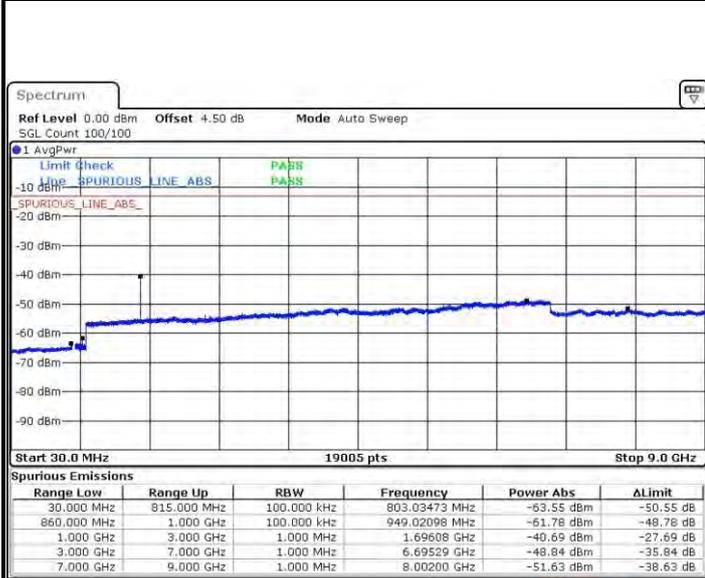


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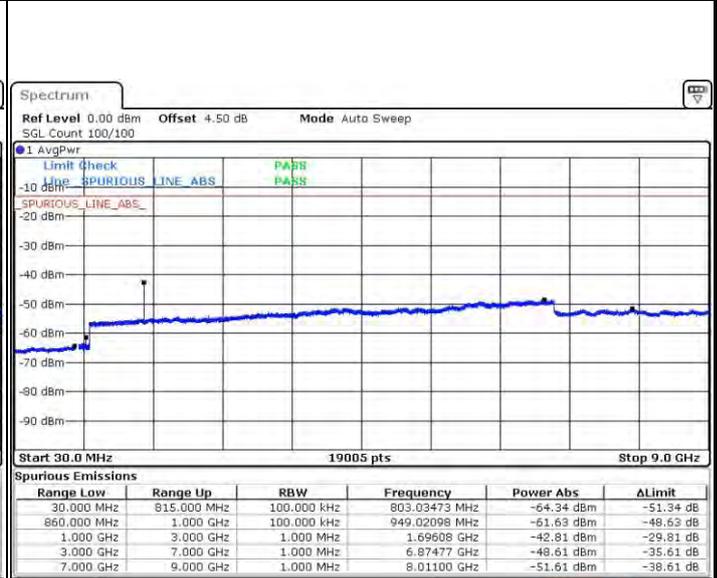
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 24.OCT.2015 14:02:45

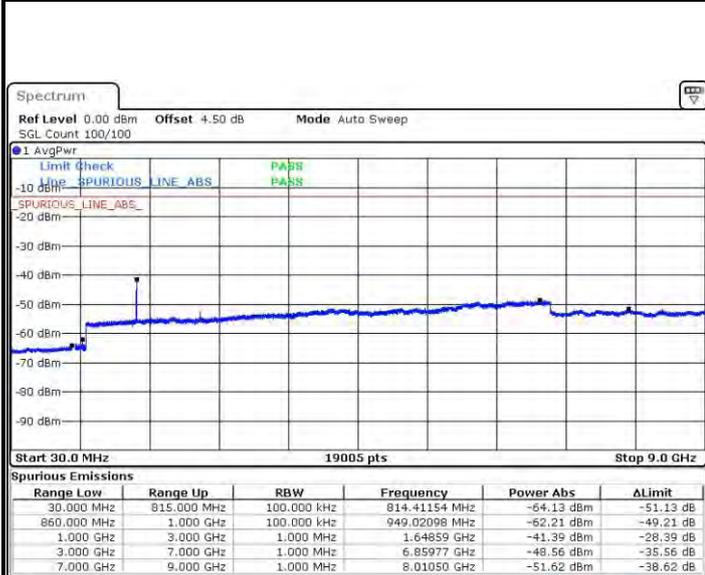
Highest Channel / 16QAM



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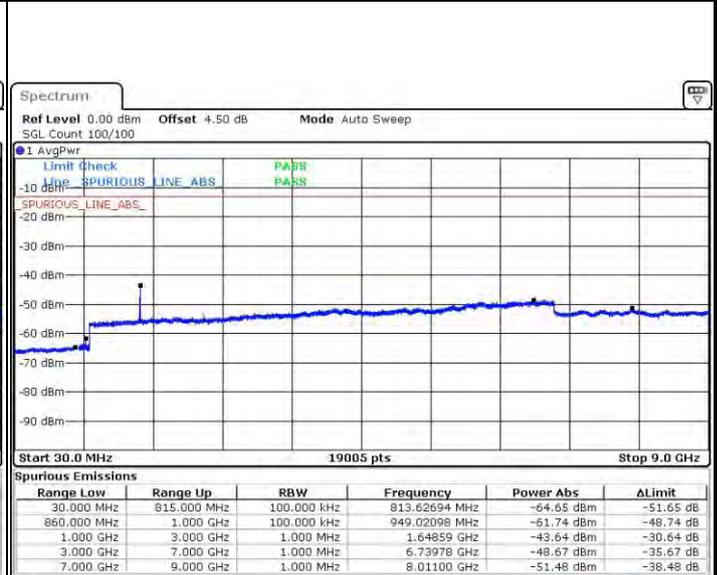
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 24.OCT.2015 14:12:49

Lowest Channel / 16QAM



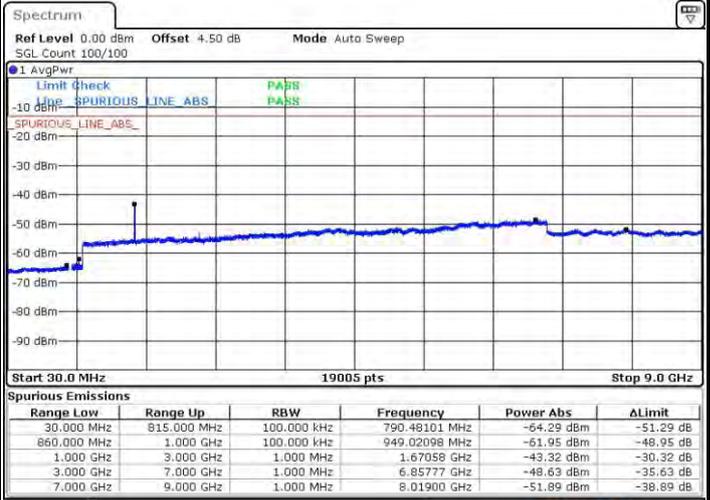
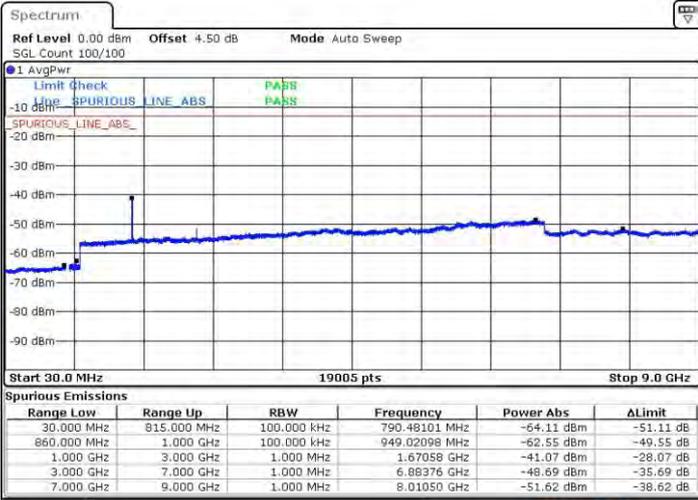
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LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

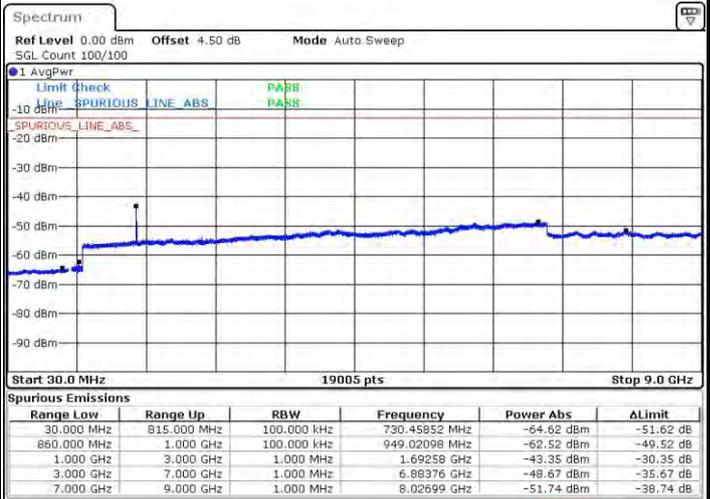
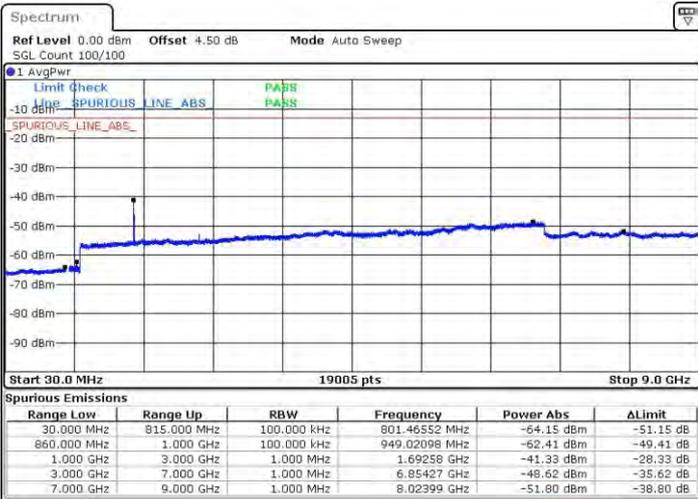


Date: 24.OCT.2015 14:15:21

Date: 24.OCT.2015 14:16:16

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 24.OCT.2015 14:25:26

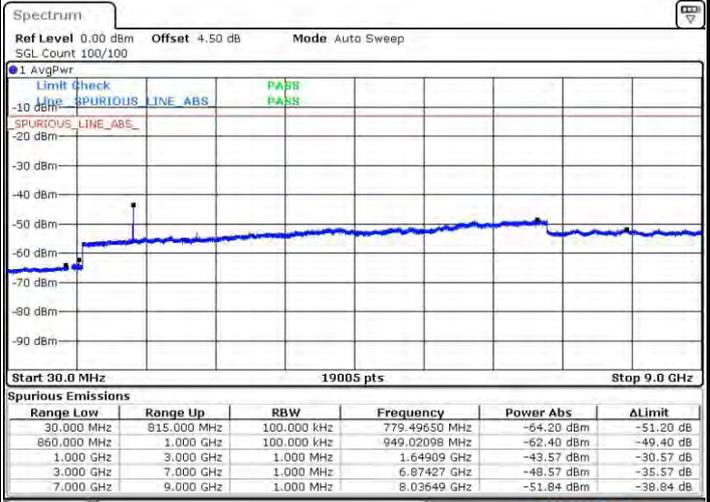
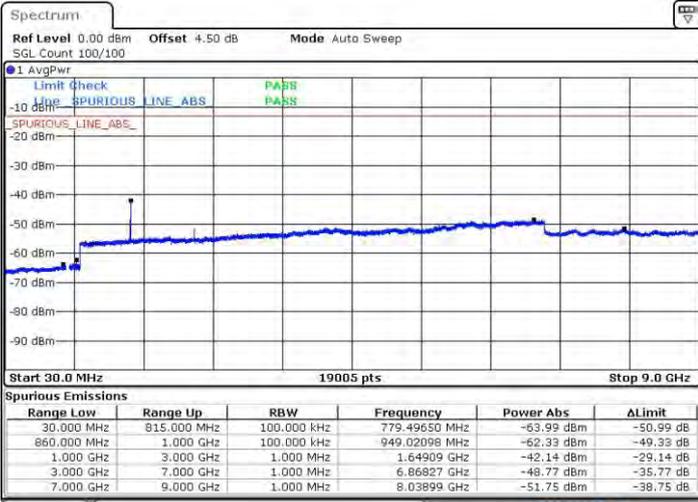
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LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

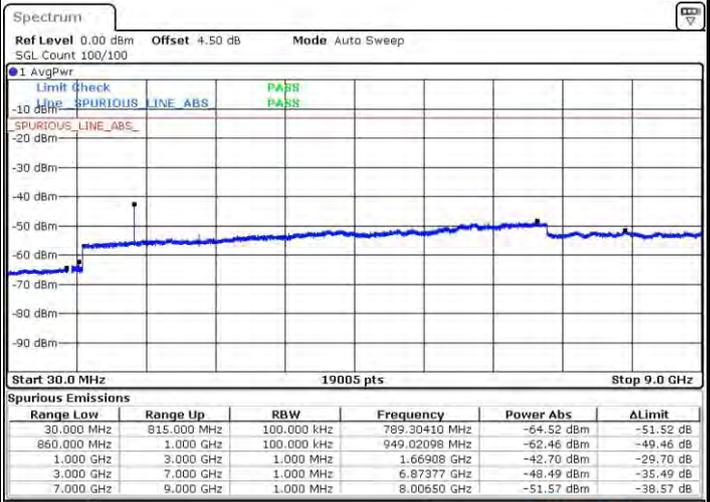
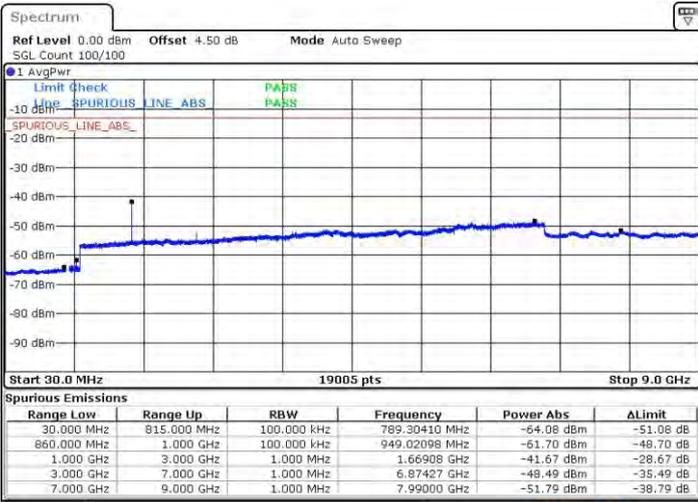


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Date: 24.OCT.2015 14:38:25

Middle Channel / QPSK

Middle Channel / 16QAM



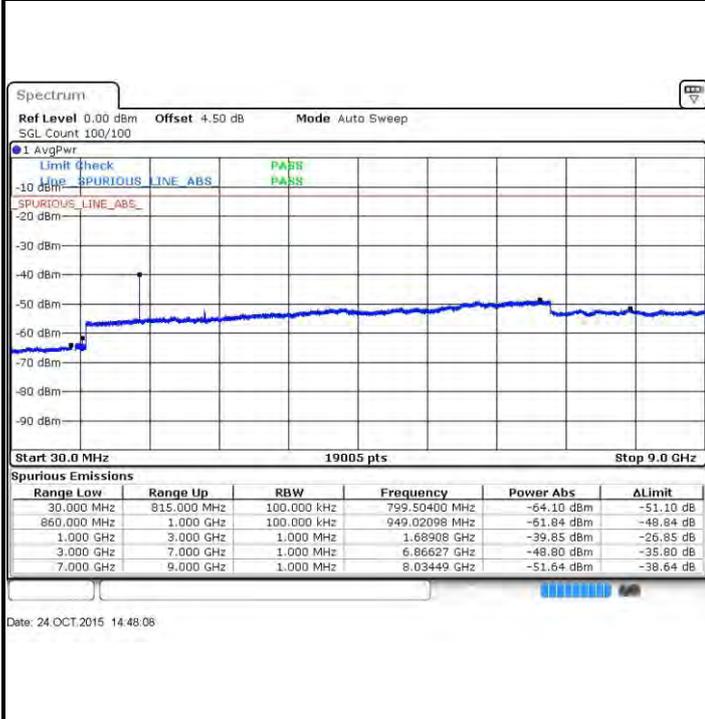
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Date: 24.OCT.2015 14:38:58



LTE Band 5 / 5MHz

Highest Channel / QPSK



Highest Channel / 16QAM



LTE Band 5 / 10MHz

Lowest Channel / QPSK



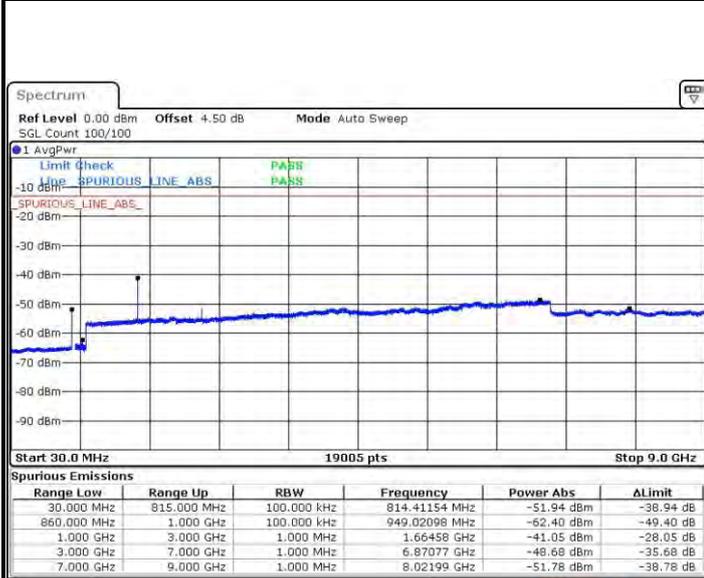
Lowest Channel / 16QAM





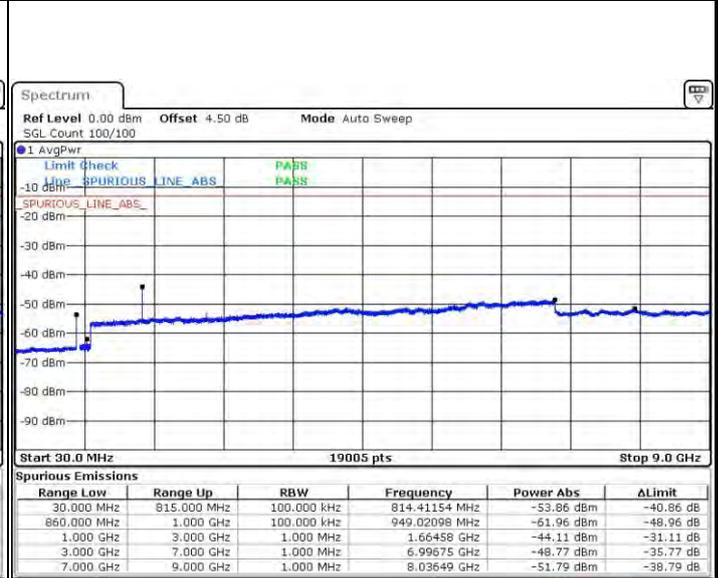
LTE Band 5 / 10MHz

Middle Channel / QPSK



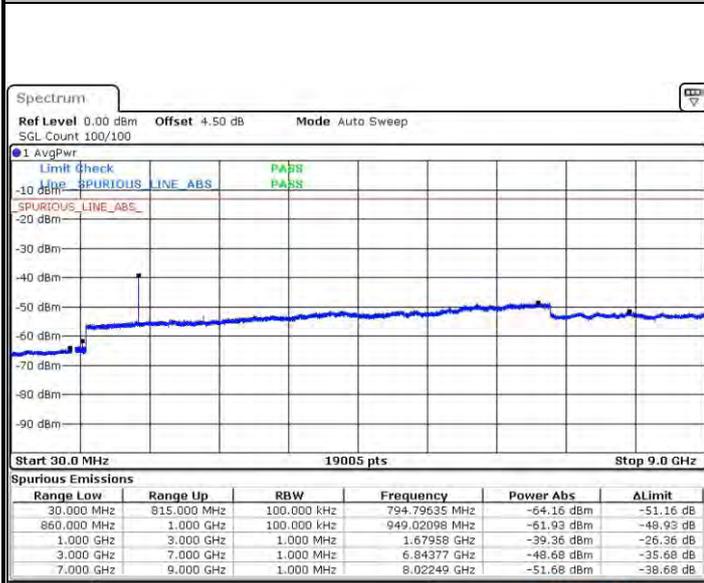
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Middle Channel / 16QAM



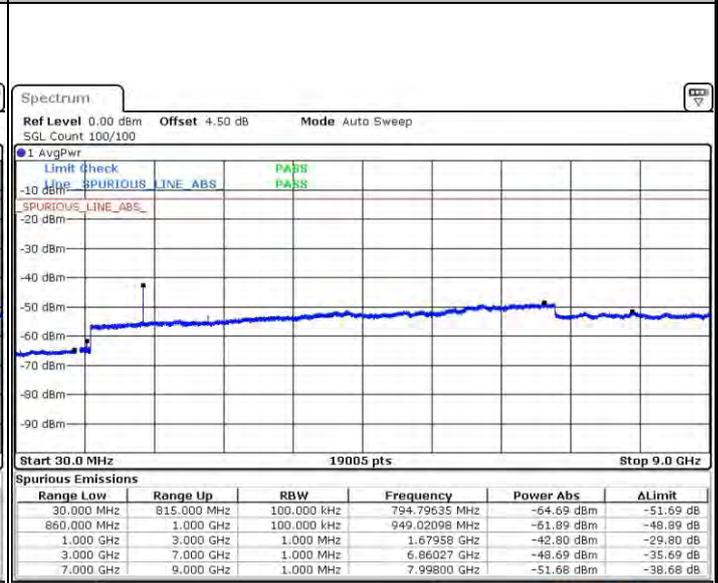
Date: 24.OCT.2015 15:10:36

Highest Channel / QPSK



Date: 24.OCT.2015 15:19:45

Highest Channel / 16QAM



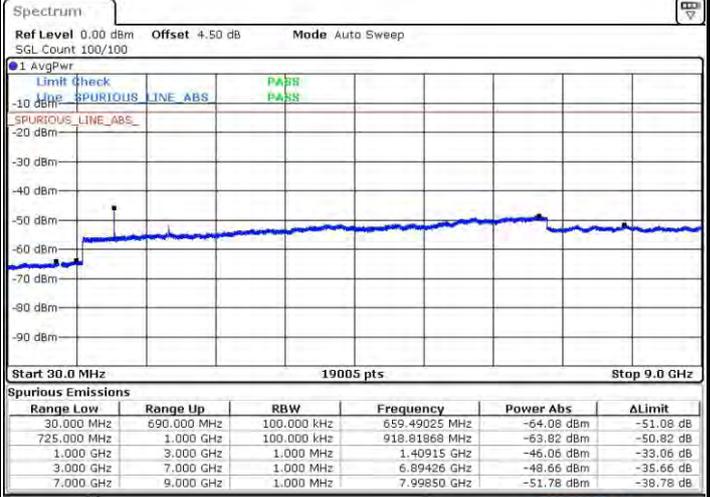
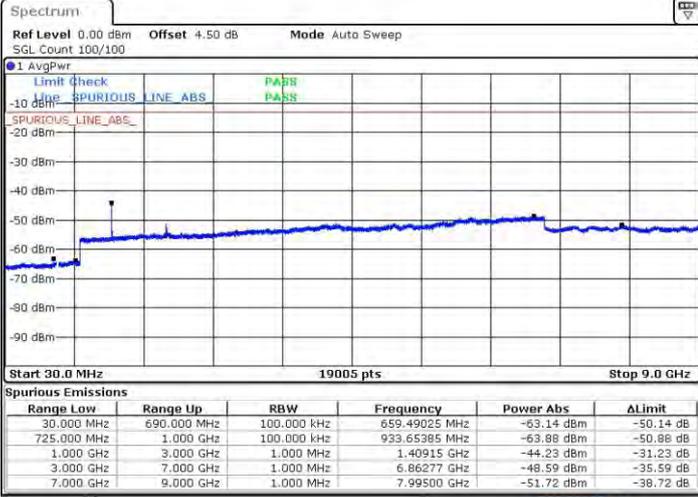
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LTE Band 17 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

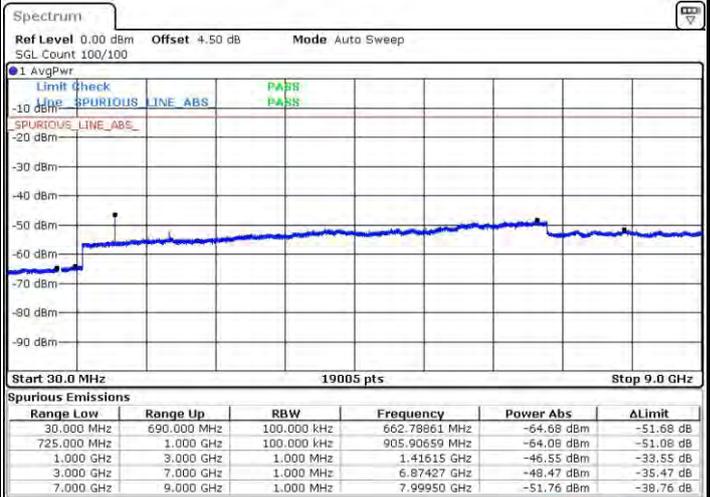
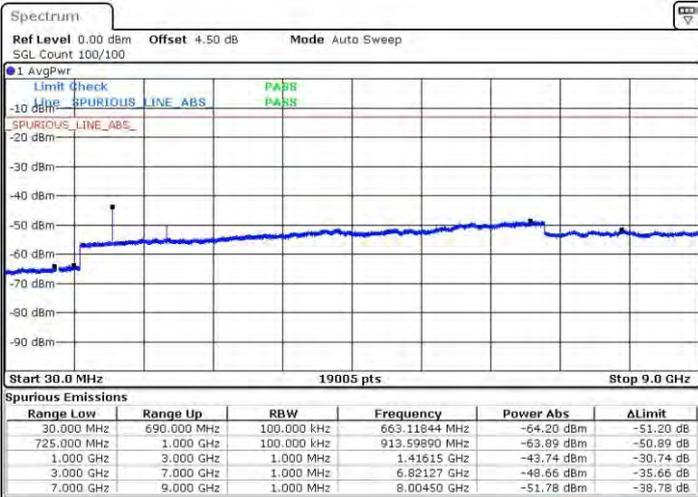


Date: 23.OCT.2015 19:34:04

Date: 23.OCT.2015 19:34:59

Middle Channel / QPSK

Middle Channel / 16QAM



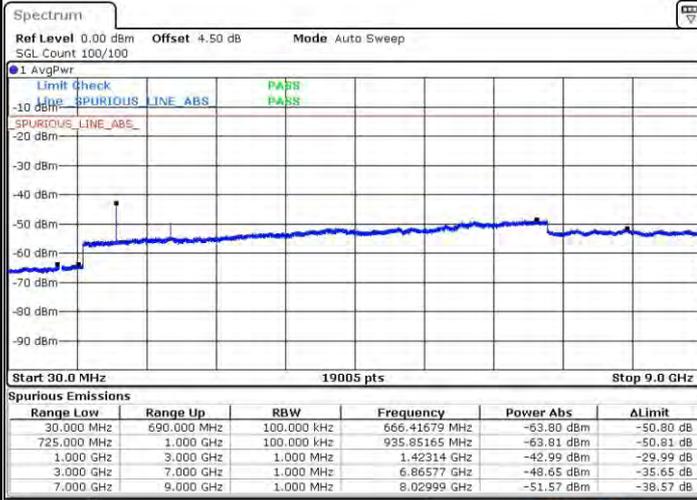
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Date: 23.OCT.2015 19:37:31



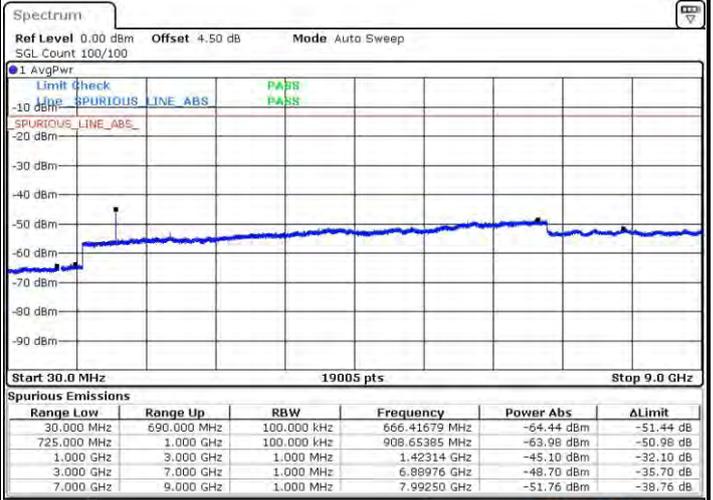
LTE Band 17 / 5MHz

Highest Channel / QPSK



Date: 23.OCT.2015 19:46:40

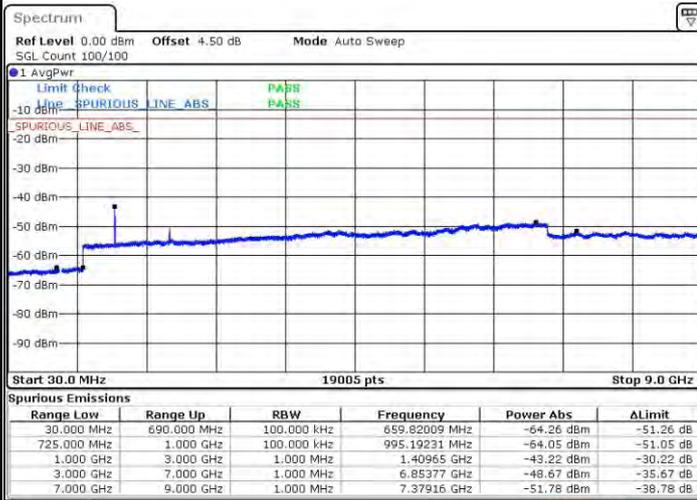
Highest Channel / 16QAM



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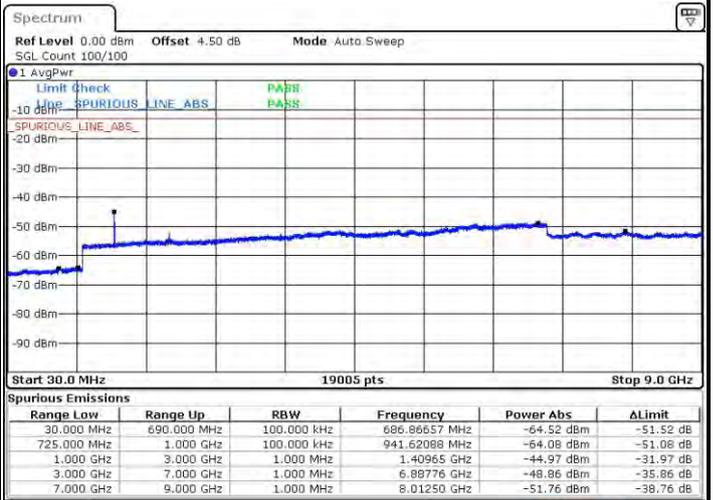
LTE Band 17 / 10MHz

Lowest Channel / QPSK



Date: 23.OCT.2015 19:56:44

Lowest Channel / 16QAM



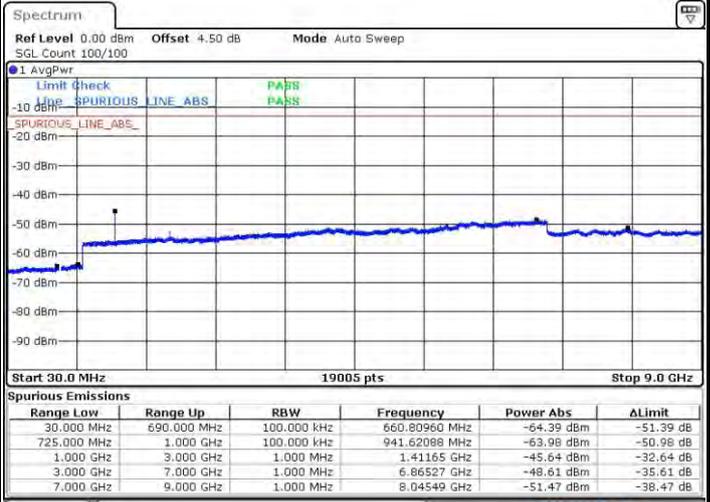
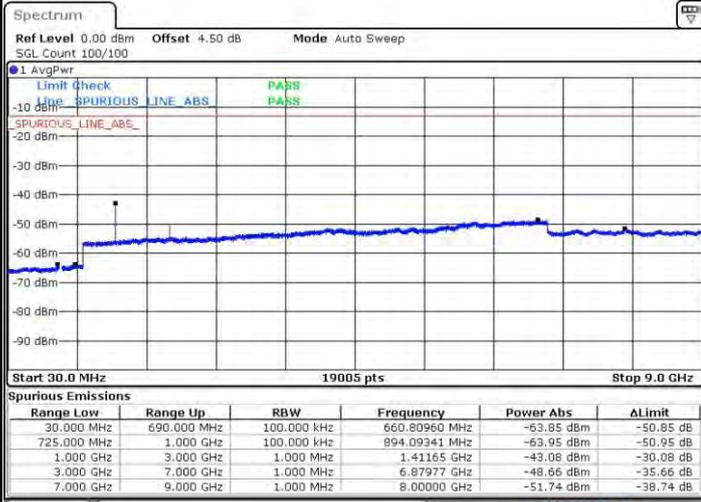
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LTE Band 17 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

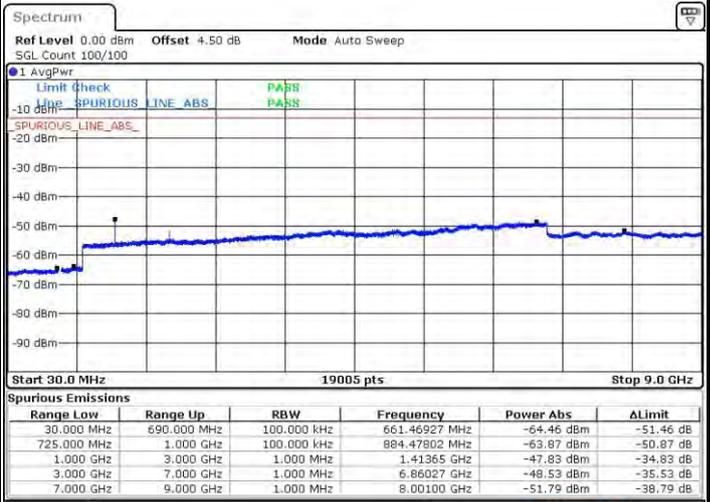
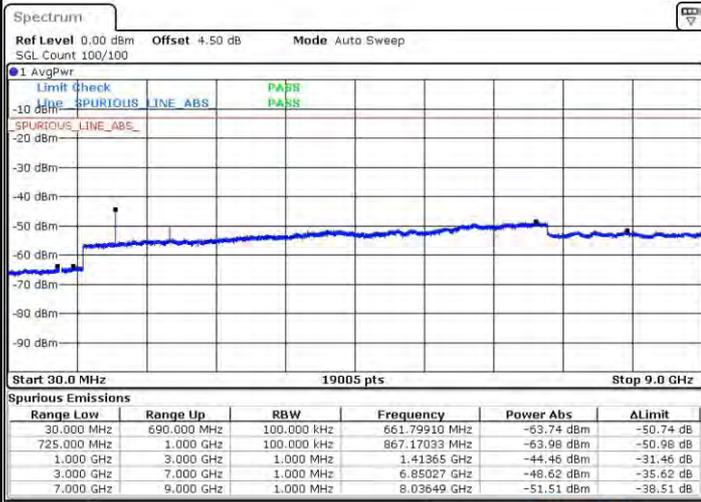


Date: 23.OCT.2015 19:59:16

Date: 23.OCT.2015 20:00:11

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 23.OCT.2015 20:09:20

Date: 23.OCT.2015 20:10:15



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	0.0319	PASS
40	Normal Voltage	0.0080	
30	Normal Voltage	0.0064	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0234	
0	Normal Voltage	0.0176	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0293	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0112	
20	Battery End Point	0.0144	

Note:

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



Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0121	PASS
40	Normal Voltage	0.0075	
30	Normal Voltage	0.0058	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0040	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0069	
-30	Normal Voltage	0.0098	
20	Maximum Voltage	0.0087	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0081	

Note:

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



Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0061	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0175	
0	Normal Voltage	0.0103	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0164	
20	Maximum Voltage	0.0061	
20	Normal Voltage	0.0049	
20	Battery End Point	0.0037	

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



Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0437	PASS
40	Normal Voltage	0.0380	
30	Normal Voltage	0.0056	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0042	
0	Normal Voltage	0.0028	
-10	Normal Voltage	0.0310	
-20	Normal Voltage	0.0493	
-30	Normal Voltage	0.0394	
20	Maximum Voltage	0.0056	
20	Normal Voltage	0.0296	
20	Battery End Point	0.0479	

Note:

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



Appendix B. Test Results of Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	22.53	0.1791	20.53	0.1130
Middle		3	1	21.74	0.1493	20.40	0.1096
Highest		3	1	22.31	0.1702	20.67	0.1167
Lowest	16QAM	3	3	21.43	0.1390	18.98	0.0791
Middle		3	3	20.63	0.1156	19.22	0.0836
Highest		3	1	21.51	0.1416	19.73	0.0940
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	22.73	0.1875	20.56	0.1138
Middle		1	14	22.10	0.1622	20.63	0.1156
Highest		1	8	22.51	0.1782	20.85	0.1216
Lowest	16QAM	1	0	21.93	0.1560	19.37	0.0865
Middle		1	0	21.25	0.1334	19.82	0.0959
Highest		1	0	21.37	0.1371	19.66	0.0925
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	22.86	0.1932	20.69	0.1172
Middle		1	12	22.30	0.1698	21.02	0.1265
Highest		1	12	22.93	0.1963	21.30	0.1349
Lowest	16QAM	1	12	21.58	0.1439	19.55	0.0902
Middle		1	12	21.14	0.1300	19.22	0.0836
Highest		1	12	21.55	0.1429	19.82	0.0959
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	22.71	0.1866	20.70	0.1175
Middle		1	25	22.08	0.1614	20.95	0.1245
Highest		1	25	22.75	0.1884	21.15	0.1303
Lowest	16QAM	1	49	21.73	0.1489	19.74	0.0942
Middle		1	0	21.11	0.1291	19.83	0.0962
Highest		1	25	21.69	0.1476	20.23	0.1054
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	23.17	0.2075	21.19	0.1315
Middle		1	37	22.31	0.1702	20.93	0.1239
Highest		1	37	22.71	0.1866	21.28	0.1343
Lowest	16QAM	1	0	21.82	0.1521	19.74	0.0942
Middle		1	0	21.57	0.1435	19.85	0.0966
Highest		1	37	21.37	0.1371	19.97	0.0993
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	23.22	0.2099	21.03	0.1268
Middle		1	49	22.48	0.1770	21.11	0.1291
Highest		1	49	22.58	0.1811	21.10	0.1288
Lowest	16QAM	1	0	22.02	0.1592	19.78	0.0951
Middle		1	49	21.29	0.1346	19.79	0.0953
Highest		1	49	21.04	0.1271	20.35	0.1084
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	23.80	0.2399	22.12	0.1629
Middle		3	1	23.92	0.2466	22.43	0.1750
Highest		3	1	24.19	0.2624	22.60	0.1820
Lowest	16QAM	1	3	22.69	0.1858	21.02	0.1265
Middle		1	3	23.29	0.2133	22.01	0.1589
Highest		1	3	23.54	0.2259	21.75	0.1496
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	8	24.12	0.2582	22.50	0.1778
Middle		1	0	24.10	0.2570	22.76	0.1888
Highest		1	8	24.39	0.2748	22.76	0.1888
Lowest	16QAM	1	8	22.74	0.1879	21.01	0.1262
Middle		1	8	23.59	0.2286	22.12	0.1629
Highest		1	8	23.35	0.2163	21.58	0.1439
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	24.34	0.2716	22.77	0.1892
Middle		1	12	24.38	0.2742	22.98	0.1986
Highest		1	12	24.42	0.2767	22.47	0.1766
Lowest	16QAM	1	12	22.95	0.1972	21.24	0.1330
Middle		1	12	23.17	0.2075	21.68	0.1472
Highest		1	12	23.54	0.2259	21.82	0.1521
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	25	24.21	0.2636	22.99	0.1991
Middle		1	25	24.17	0.2612	22.84	0.1923
Highest		1	25	24.42	0.2767	22.48	0.1770
Lowest	16QAM	1	49	22.79	0.1901	21.21	0.1321
Middle		1	25	23.76	0.2377	22.07	0.1611
Highest		1	0	23.06	0.2023	21.74	0.1493
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	37	24.80	0.3020	23.24	0.2109
Middle		1	37	24.48	0.2805	22.88	0.1941
Highest		1	37	24.55	0.2851	23.10	0.2042
Lowest	16QAM	1	74	22.82	0.1914	21.86	0.1535
Middle		1	37	23.00	0.1995	21.91	0.1552
Highest		1	0	22.79	0.1901	21.51	0.1416
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 20MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	49	24.05	0.2541	22.25	0.1679
Middle		1	49	24.30	0.2692	22.90	0.1950
Highest		1	49	24.27	0.2673	22.84	0.1923
Lowest	16QAM	1	0	22.86	0.1932	20.87	0.1222
Middle		1	49	23.26	0.2118	21.77	0.1503
Highest		1	99	22.96	0.1977	21.39	0.1377
Limit	EIRP < 1W			Result		PASS	

LTE Band 5 / 1.4MHz (Average)							
Channel	Modulation	RB		Horizontal		Vertical	
		Size	Offset	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	3	20.31	0.1074	8.48	0.0070
Middle		3	3	20.72	0.1180	8.49	0.0071
Highest		3	0	20.77	0.1194	8.47	0.0070
Lowest	16QAM	1	3	19.70	0.0933	7.90	0.0062
Middle		3	1	19.75	0.0944	7.53	0.0057
Highest		1	0	19.94	0.0986	7.87	0.0061
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	14	20.96	0.1247	9.02	0.0080
Middle		1	0	21.08	0.1282	9.16	0.0082
Highest		1	0	21.08	0.1282	8.81	0.0076
Lowest	16QAM	1	14	19.77	0.0948	7.91	0.0062
Middle		1	0	20.00	0.1000	7.93	0.0062
Highest		1	14	20.01	0.1002	7.78	0.0060
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	21.15	0.1303	9.20	0.0083
Middle		1	12	21.01	0.1262	8.94	0.0078
Highest		1	12	21.19	0.1315	9.03	0.0080
Lowest	16QAM	1	0	19.46	0.0883	7.75	0.0060
Middle		1	12	19.95	0.0989	7.78	0.0060
Highest		1	12	19.90	0.0977	7.74	0.0059
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	25	20.91	0.1233	9.16	0.0082
Middle		1	25	20.82	0.1208	8.66	0.0073
Highest		1	25	21.17	0.1309	9.12	0.0082
Lowest	16QAM	1	49	19.26	0.0843	8.00	0.0063
Middle		1	25	20.20	0.1047	8.40	0.0069
Highest		1	25	20.13	0.1030	8.12	0.0065
Limit	ERP < 7W			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	12	19.36	0.0863	2.49	0.0018
Middle		1	12	19.17	0.0826	2.27	0.0017
Highest		1	12	18.87	0.0771	2.39	0.0017
Lowest	16QAM	1	0	18.45	0.0700	1.75	0.0015
Middle		1	0	18.30	0.0676	1.15	0.0013
Highest		1	24	16.96	0.0497	1.00	0.0013
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	25	19.55	0.0902	2.64	0.0018
Middle		1	25	19.11	0.0815	2.28	0.0017
Highest		1	25	19.03	0.0800	2.16	0.0016
Lowest	16QAM	1	0	18.64	0.0731	1.75	0.0015
Middle		1	0	17.96	0.0625	1.48	0.0014
Highest		1	25	17.94	0.0622	1.08	0.0013
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	-53.60	-13	-40.60	-63.16	-58.60	2.60	7.60	H
	5640	-44.10	-13	-31.10	-58.80	-51.10	3.10	10.10	H
	7518	-50.72	-13	-37.72	-69.45	-56.88	5.77	11.93	H
	3759	-53.75	-13	-40.75	-64.27	-58.75	2.60	7.60	V
	5640	-43.19	-13	-30.19	-58.71	-50.19	3.10	10.10	V
	7518	-51.35	-13	-38.35	-69.27	-57.51	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	-54.26	-13	-41.26	-63.82	-59.26	2.60	7.60	H
	5637	-41.79	-13	-28.79	-57.01	-48.79	3.10	10.10	H
	7515	-50.62	-13	-37.62	-69.35	-56.78	5.77	11.93	H
	3756	-55.71	-13	-42.71	-66.23	-60.71	2.60	7.60	V
	5637	-43.03	-13	-30.03	-58.53	-50.03	3.10	10.10	V
	7515	-51.23	-13	-38.23	-69.15	-57.39	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	-54.61	-13	-41.61	-64.17	-59.61	2.60	7.60	H
	5634	-43.09	-13	-30.09	-57.98	-50.09	3.10	10.10	H
	7512	-51.33	-13	-38.33	-70.06	-57.49	5.77	11.93	H
	3756	-54.75	-13	-41.75	-65.27	-59.75	2.60	7.60	V
	5634	-41.65	-13	-28.65	-57.41	-48.65	3.10	10.10	V
	7512	-49.97	-13	-36.97	-67.89	-56.13	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	-54.53	-13	-41.53	-64.09	-59.53	2.60	7.60	H
	5628	-35.53	-13	-22.53	-51.30	-42.53	3.10	10.10	H
	7503	-50.41	-13	-37.41	-69.14	-56.57	5.77	11.93	H
	3750	-55.22	-13	-42.22	-65.74	-60.22	2.60	7.60	V
	5628	-34.53	-13	-21.53	-50.53	-41.53	3.10	10.10	V
	7503	-50.87	-13	-37.87	-68.79	-57.03	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	-54.96	-13	-41.96	-64.52	-59.96	2.60	7.60	H
	5619	-44.50	-13	-31.50	-59.20	-51.50	3.10	10.10	H
	7494	-50.06	-13	-37.06	-68.79	-56.22	5.77	11.93	H
	3747	-54.98	-13	-41.98	-65.5	-59.98	2.60	7.60	V
	5619	-43.82	-13	-30.82	-59.41	-50.82	3.10	10.10	V
	7494	-49.83	-13	-36.83	-67.75	-55.99	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	-54.20	-13	-41.20	-63.76	-59.20	2.60	7.60	H
	5613	-42.42	-13	-29.42	-57.51	-49.42	3.10	10.10	H
	7485	-50.14	-13	-37.14	-68.87	-56.30	5.77	11.93	H
	3741	-55.34	-13	-42.34	-65.86	-60.34	2.60	7.60	V
	5613	-40.03	-13	-27.03	-55.79	-47.03	3.10	10.10	V
	7485	-51.37	-13	-38.37	-69.29	-57.53	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	-55.95	-13	-42.95	-63.71	-60.93	2.51	7.49	H
	5196	-52.17	-13	-39.17	-65.76	-58.64	2.98	9.45	H
	6927	-52.44	-13	-39.44	-69.23	-58.51	5.28	11.35	H
	3465	-53.16	-13	-40.16	-60.04	-58.14	2.51	7.49	V
	5196	-52.25	-13	-39.25	-66.21	-58.72	2.98	9.45	V
	6927	-49.22	-13	-36.22	-66.25	-55.29	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	-54.30	-13	-41.30	-62.06	-59.28	2.51	7.49	H
	5193	-50.51	-13	-37.51	-64.10	-56.98	2.98	9.45	H
	6924	-52.12	-13	-39.12	-68.91	-58.19	5.28	11.35	H
	3462	-52.73	-13	-39.73	-59.67	-57.71	2.51	7.49	V
	5193	-51.37	-13	-38.37	-65.33	-57.84	2.98	9.45	V
	6924	-51.33	-13	-38.33	-68.36	-57.40	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	-54.97	-13	-41.97	-62.73	-59.95	2.51	7.49	H
	5190	-49.48	-13	-36.48	-63.07	-55.95	2.98	9.45	H
	6921	-52.14	-13	-39.14	-68.93	-58.21	5.28	11.35	H
	3462	-52.16	-13	-39.16	-59.19	-57.14	2.51	7.49	V
	5190	-51.94	-13	-38.94	-65.9	-58.41	2.98	9.45	V
	6921	-51.84	-13	-38.84	-68.87	-57.91	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	-54.53	-13	-41.53	-62.29	-59.51	2.51	7.49	H
	5184	-43.35	-13	-30.35	-57.62	-49.82	2.98	9.45	H
	6909	-51.96	-13	-38.96	-68.75	-58.03	5.28	11.35	H
	3456	-50.91	-13	-37.91	-58.04	-55.89	2.51	7.49	V
	5184	-50.00	-13	-37.00	-63.96	-56.47	2.98	9.45	V
	6909	-52.01	-13	-39.01	-69.04	-58.08	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	-55.50	-13	-42.50	-63.26	-60.48	2.51	7.49	H
	5178	-49.52	-13	-36.52	-63.11	-55.99	2.98	9.45	H
	6900	-52.75	-13	-39.75	-69.54	-58.82	5.28	11.35	H
	3453	-49.51	-13	-36.51	-56.9	-54.49	2.51	7.49	V
	5178	-51.21	-13	-38.21	-65.17	-57.68	2.98	9.45	V
	6900	-52.38	-13	-39.38	-69.41	-58.45	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	-53.57	-13	-40.57	-61.42	-58.55	2.51	7.49	H
	5169	-52.65	-13	-39.65	-66.24	-59.12	2.98	9.45	H
	6891	-51.89	-13	-38.89	-68.68	-57.96	5.28	11.35	H
	3447	-49.15	-13	-36.15	-56.51	-54.13	2.51	7.49	V
	5169	-51.91	-13	-38.91	-65.87	-58.38	2.98	9.45	V
	6891	-53.14	-13	-40.14	-70.17	-59.21	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	-63.84	-13	-50.84	-63.03	-65.86	1.73	5.90	H
	2508	-42.78	-13	-29.78	-47.39	-45.32	2.11	6.80	H
	3342	-60.61	-13	-47.61	-65.69	-63.39	2.47	7.40	H
	1672	-60.73	-13	-47.73	-61.95	-62.75	1.73	5.90	V
	2508	-42.64	-13	-29.64	-48.58	-45.18	2.11	6.80	V
	3342	-61.22	-13	-48.22	-66.51	-64.00	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	-62.19	-13	-49.19	-62.17	-64.21	1.73	5.90	H
	2506	-54.05	-13	-41.05	-58.18	-56.59	2.11	6.80	H
	3339	-62.00	-13	-49.00	-67.08	-64.78	2.47	7.40	H
	1670	-58.63	-13	-45.63	-60.14	-60.65	1.73	5.90	V
	2506	-53.94	-13	-40.94	-59.42	-56.48	2.11	6.80	V
	3339	-60.09	-13	-47.09	-65.38	-62.87	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	-60.91	-13	-47.91	-61.04	-62.93	1.73	5.90	H
	2504	-56.72	-13	-43.72	-60.85	-59.26	2.11	6.80	H
	3336	-60.86	-13	-47.86	-65.94	-63.64	2.47	7.40	H
	1668	-59.15	-13	-46.15	-60.63	-61.17	1.73	5.90	V
	2504	-55.21	-13	-42.21	-60.7	-57.75	2.11	6.80	V
	3336	-60.73	-13	-47.73	-66.02	-63.51	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	-54.73	-13	-41.73	-55.27	-56.75	1.73	5.90	H
	2496	-45.40	-13	-32.40	-49.95	-47.94	2.11	6.80	H
	3327	-61.75	-13	-48.75	-66.83	-64.53	2.47	7.40	H
	1664	-50.17	-13	-37.17	-52.04	-52.19	1.73	5.90	V
	2496	-40.52	-13	-27.52	-46.45	-43.06	2.11	6.80	V
	3327	-60.24	-13	-47.24	-65.53	-63.02	2.47	7.40	V

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



LTE Band 17 / 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	1416	-59.28	-13	-46.28	-59.75	-61.17	0.84	4.88	H
	2124	-50.78	-13	-37.78	-55.82	-53.42	1.14	5.93	H
	2831	-57.63	-13	-44.63	-62.36	-60.81	1.33	6.66	H
	1416	-54.32	-13	-41.32	-56.09	-56.21	0.84	4.88	V
	2124	-43.67	-13	-30.67	-49.87	-46.31	1.14	5.93	V
	2832	-56.96	-13	-43.96	-64	-60.14	1.33	6.66	V

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

LTE Band 17 / 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	1412	-54.76	-13	-41.76	-55.52	-56.65	0.84	4.88	H
	2116	-54.85	-13	-41.85	-59.30	-57.49	1.14	5.93	H
	2820	-58.32	-13	-45.32	-63.05	-61.50	1.33	6.66	H
	1412	-56.99	-13	-43.99	-58.34	-58.88	0.84	4.88	V
	2118	-53.20	-13	-40.20	-58.33	-55.84	1.14	5.93	V
	2820	-56.26	-13	-43.26	-63.3	-59.44	1.33	6.66	V

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