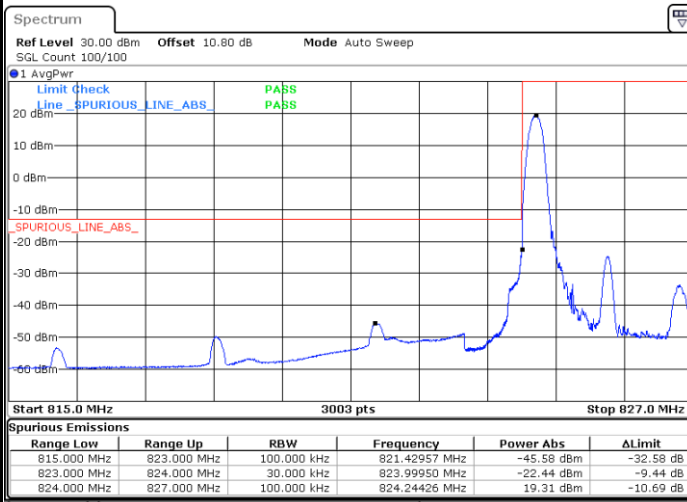




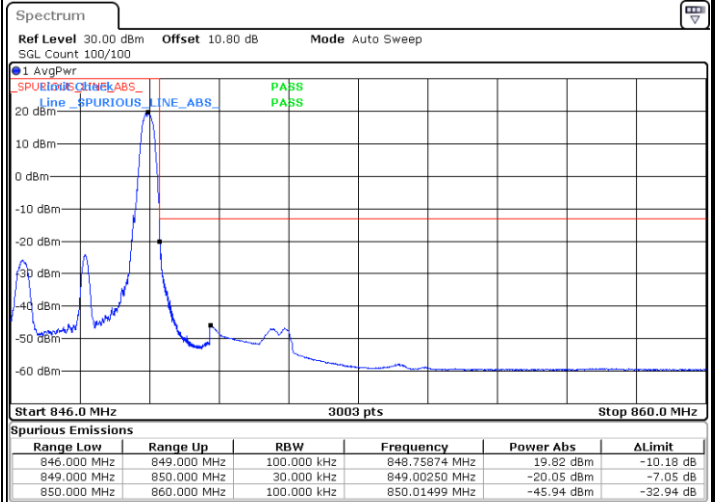
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



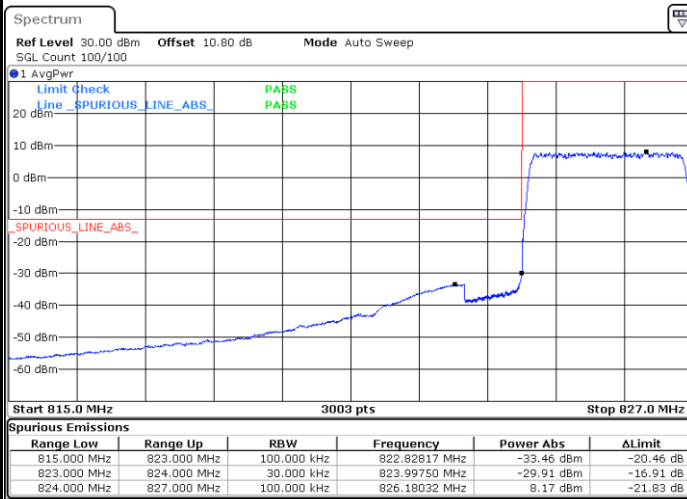
Date: 5 OCT.2019 00:52:48

Highest Band Edge / 1 RB



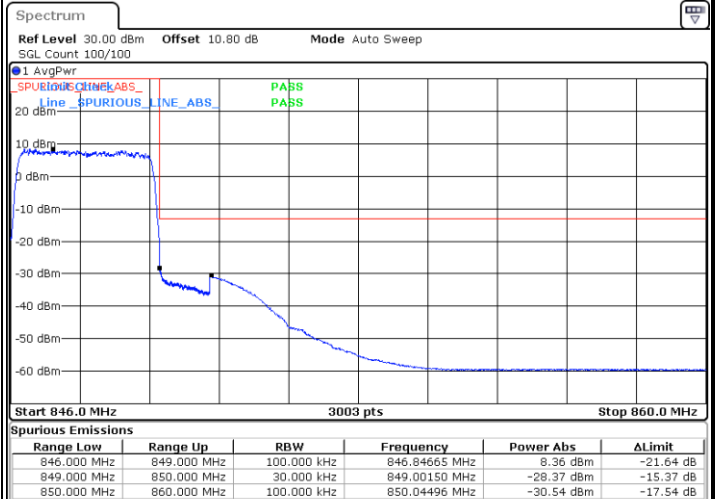
Date: 5 OCT.2019 01:03:47

Lowest Band Edge / Full RB



Date: 5 OCT.2019 00:56:10

Highest Band Edge / Full RB

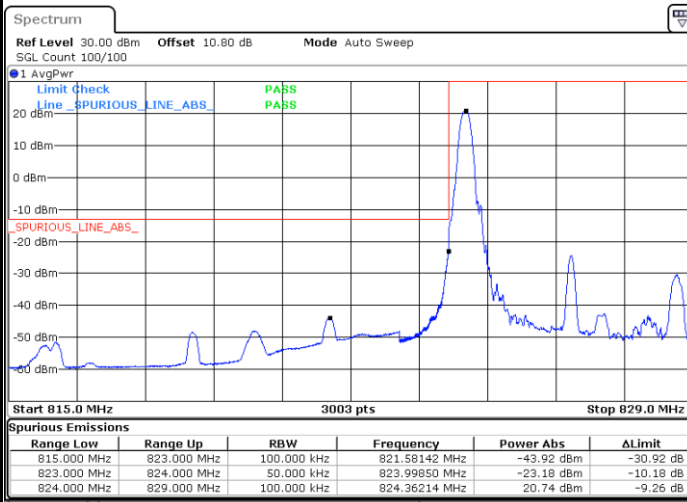


Date: 5 OCT.2019 01:07:09



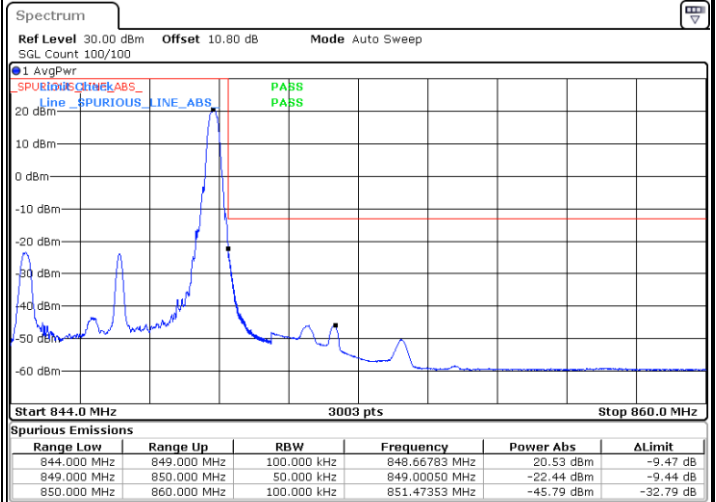
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



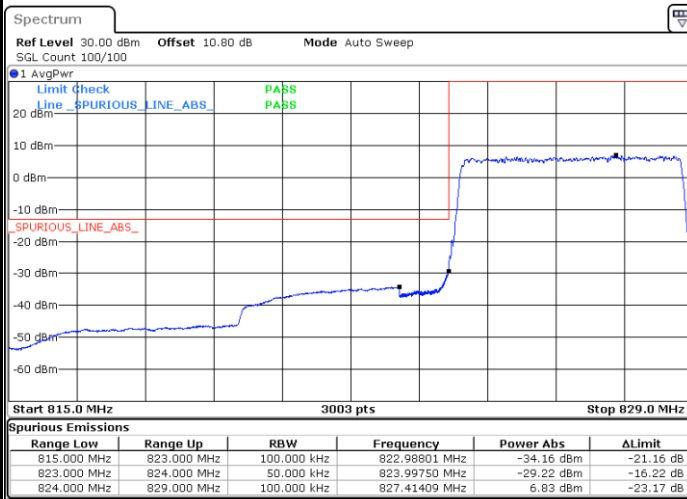
Date: 5.OCT.2019 01:11:00

Highest Band Edge / 1 RB



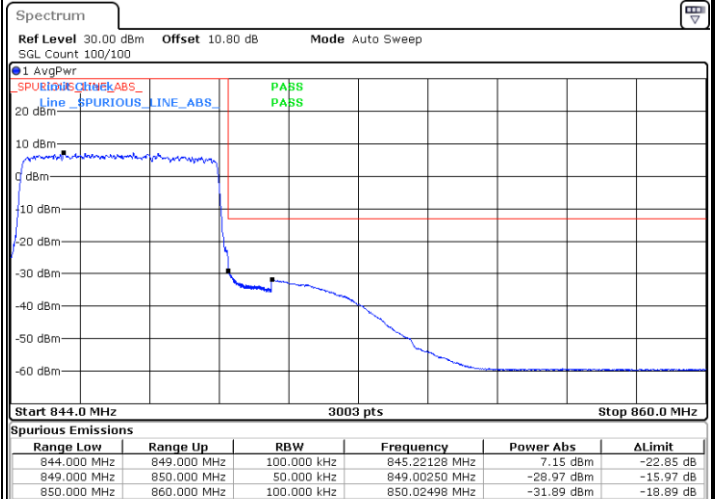
Date: 5.OCT.2019 01:21:59

Lowest Band Edge / Full RB



Date: 5.OCT.2019 01:14:22

Highest Band Edge / Full RB

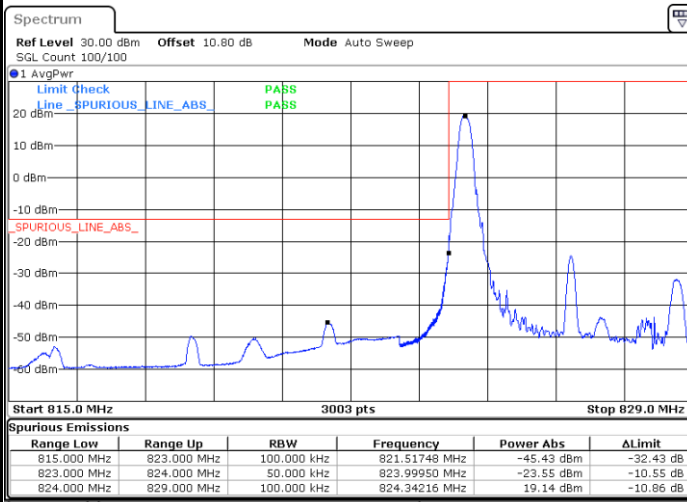


Date: 5.OCT.2019 01:25:21



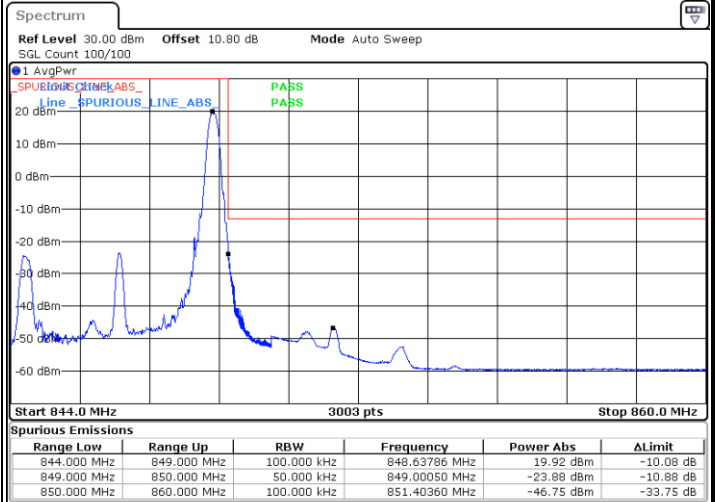
LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



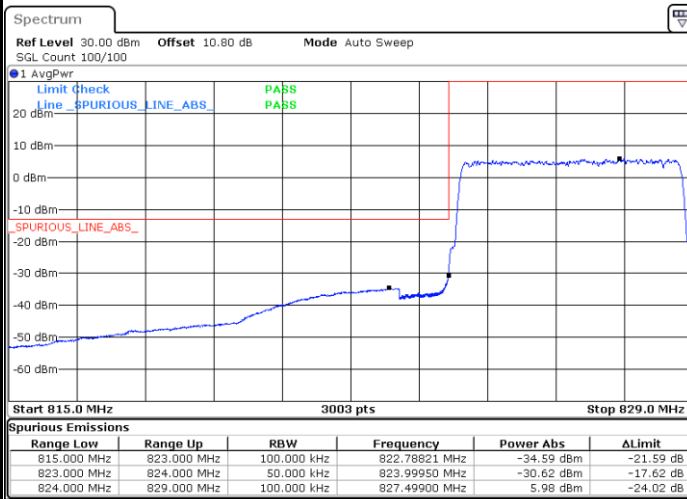
Date: 5.OCT.2019 01:12:41

Highest Band Edge / 1 RB



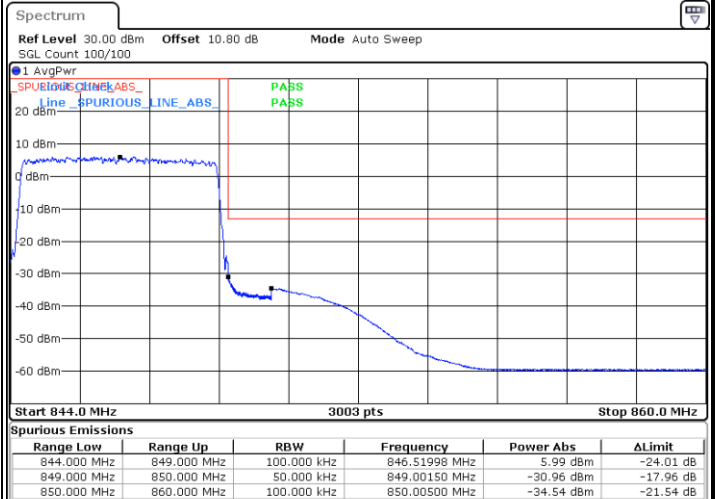
Date: 5.OCT.2019 01:23:40

Lowest Band Edge / Full RB



Date: 5.OCT.2019 01:16:03

Highest Band Edge / Full RB

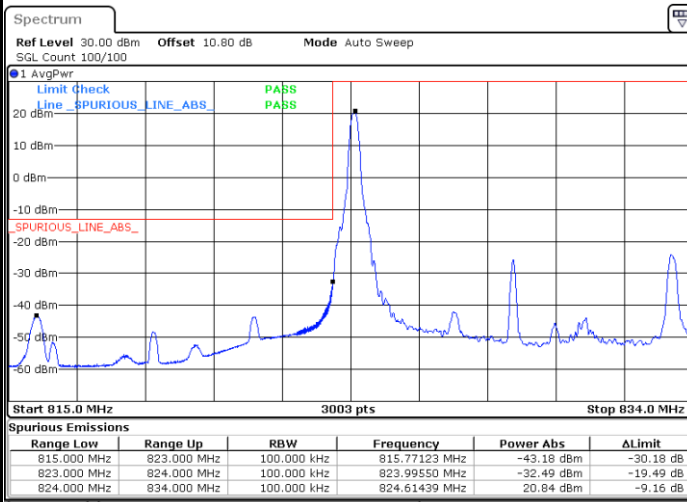


Date: 5.OCT.2019 01:27:02



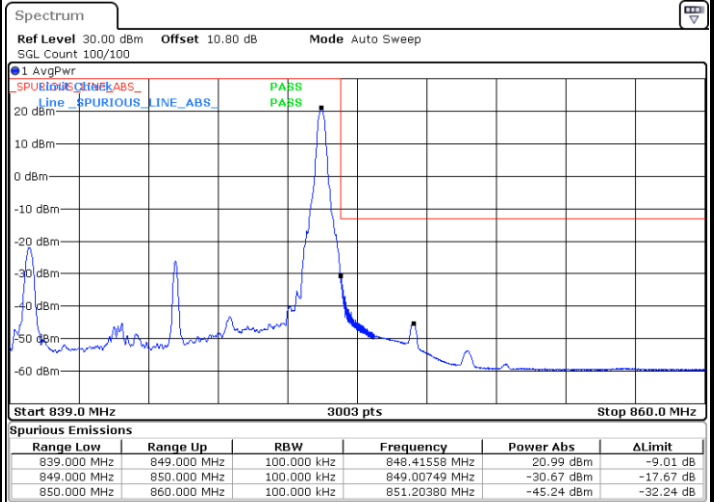
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB



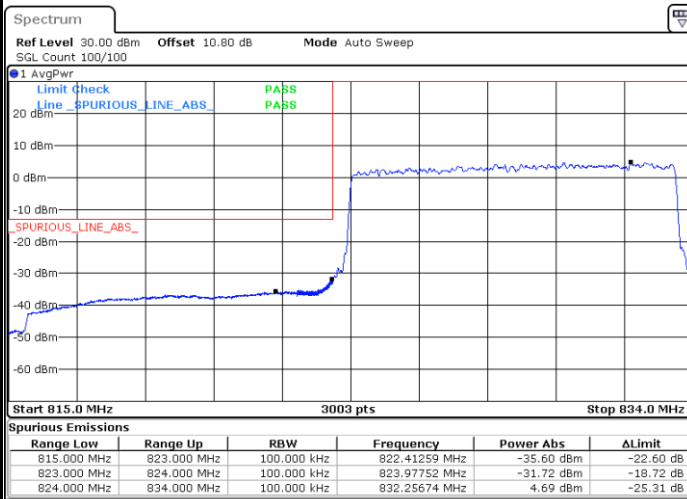
Date: 5.OCT.2019 01:30:29

Highest Band Edge / 1 RB



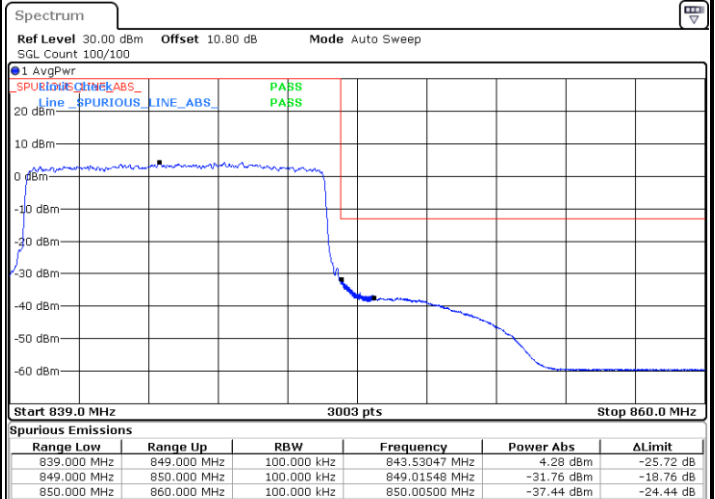
Date: 5.OCT.2019 01:38:59

Lowest Band Edge / Full RB



Date: 5.OCT.2019 01:33:50

Highest Band Edge / Full RB



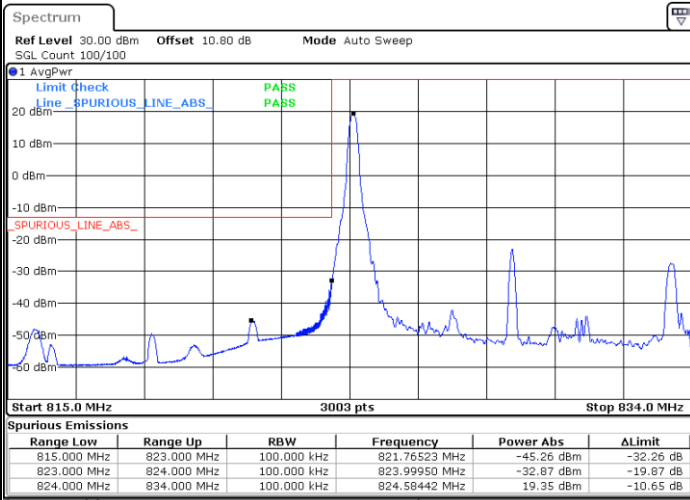
Date: 5.OCT.2019 01:42:21



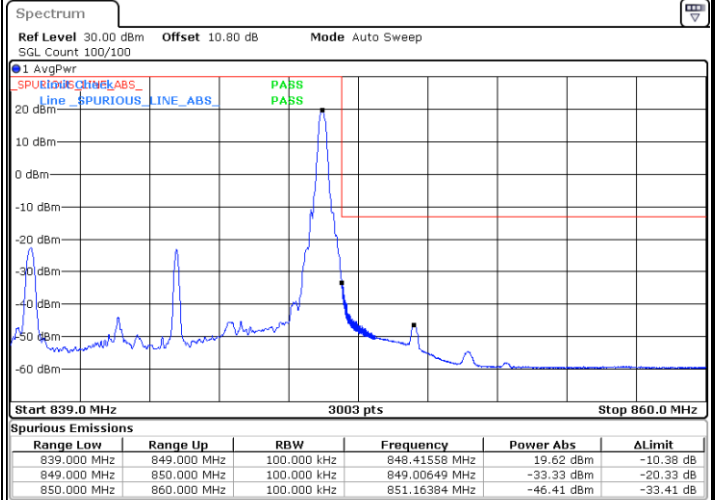
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 5.OCT.2019 01:32:09



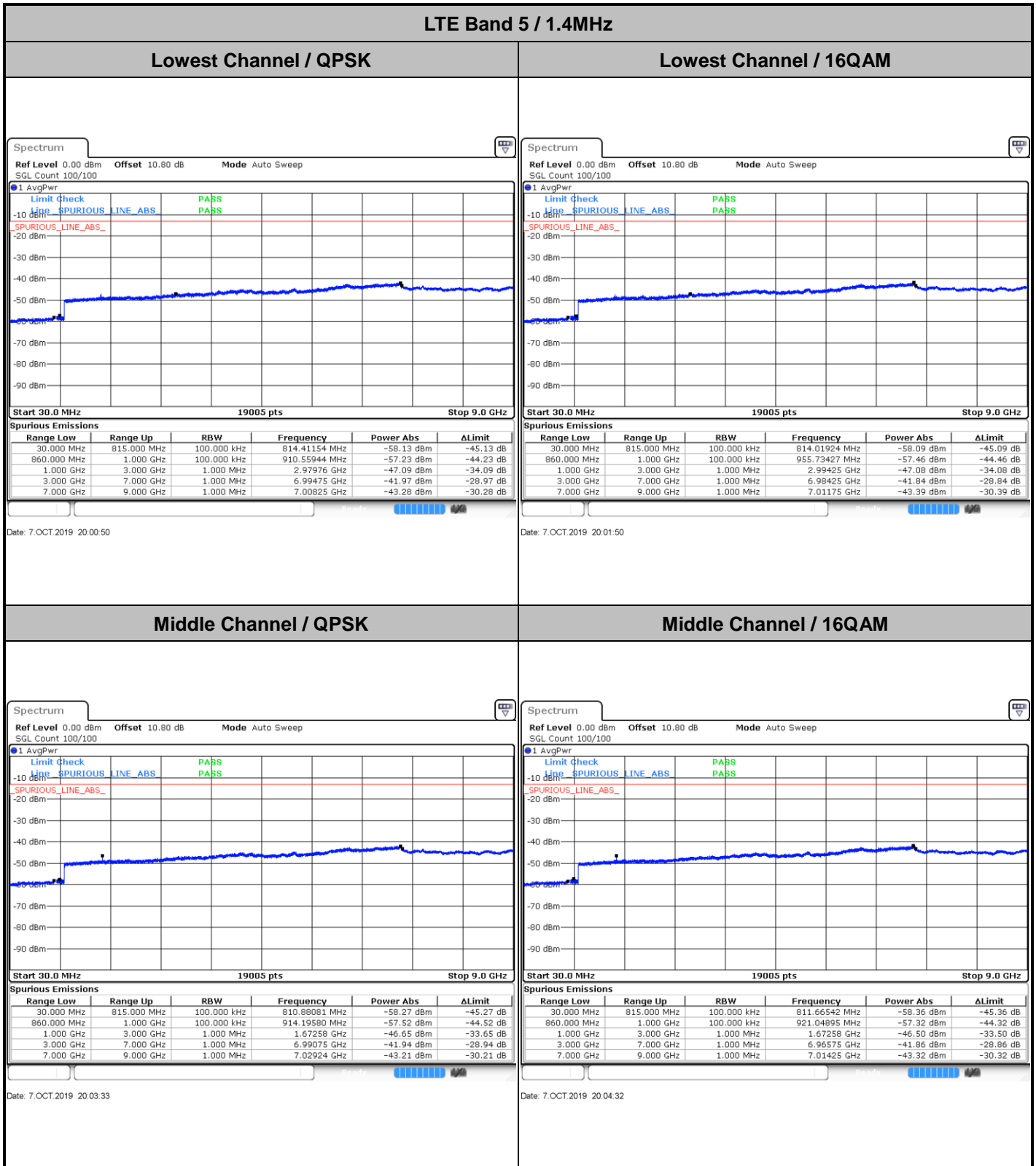
Date: 5.OCT.2019 01:40:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Conducted Spurious Emission

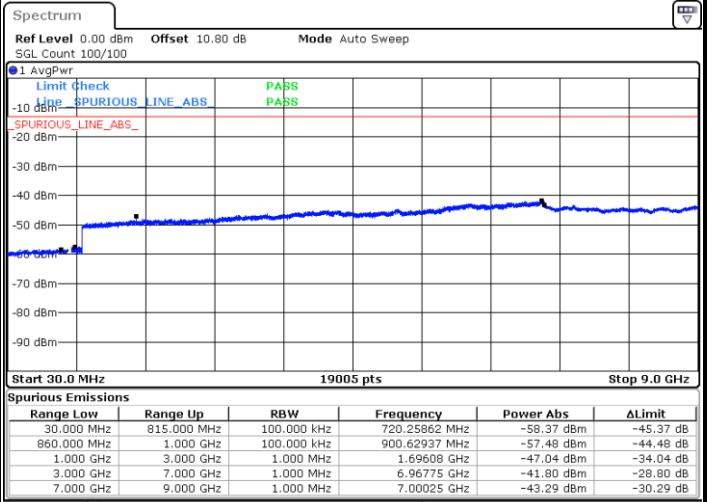
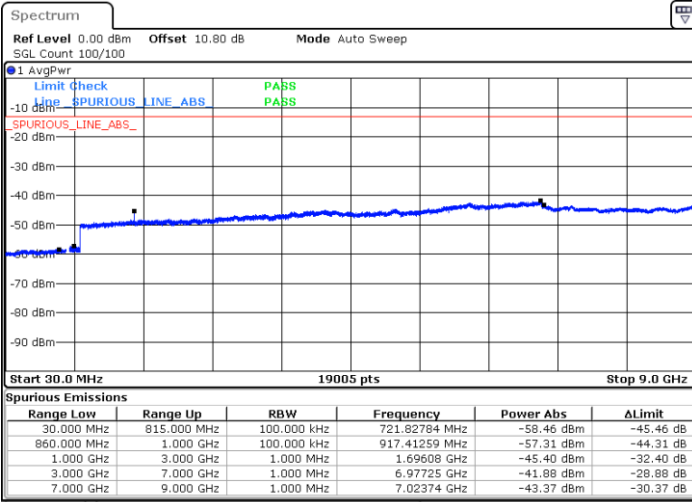




LTE Band 5 / 1.4MHz

Highest Channel / QPSK

Highest Channel / 16QAM



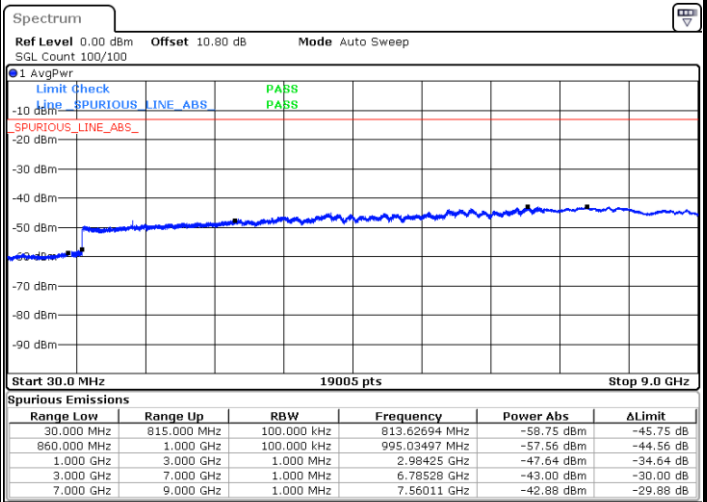
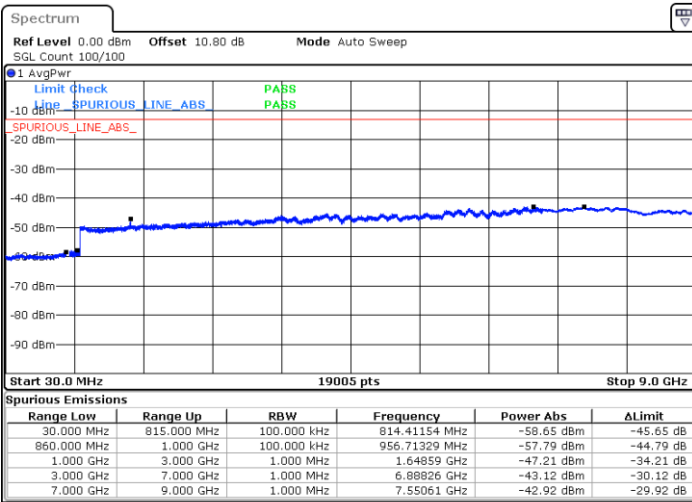
Date: 7.OCT.2019 20:12:51

Date: 7.OCT.2019 20:13:50

LTE Band 5 / 3MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 5.OCT.2019 00:56:51

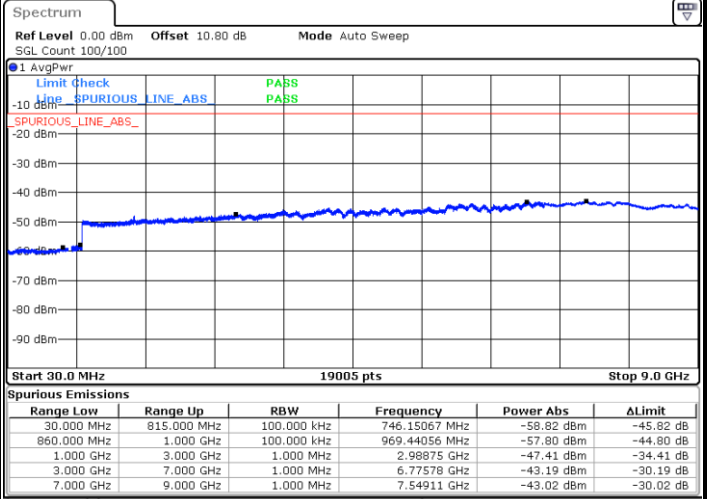
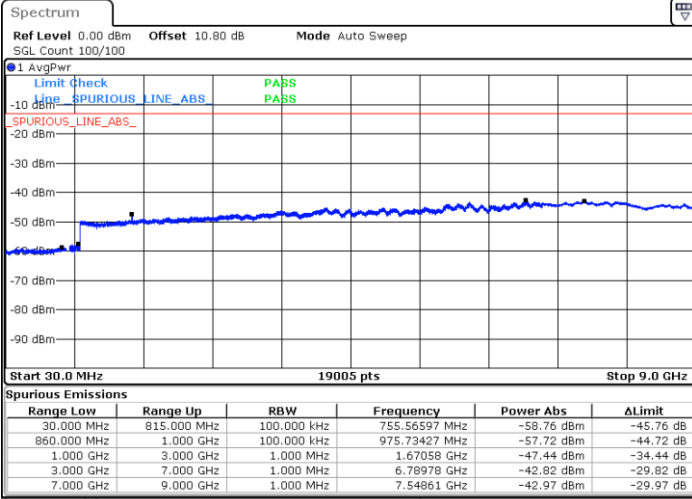
Date: 5.OCT.2019 00:57:32



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

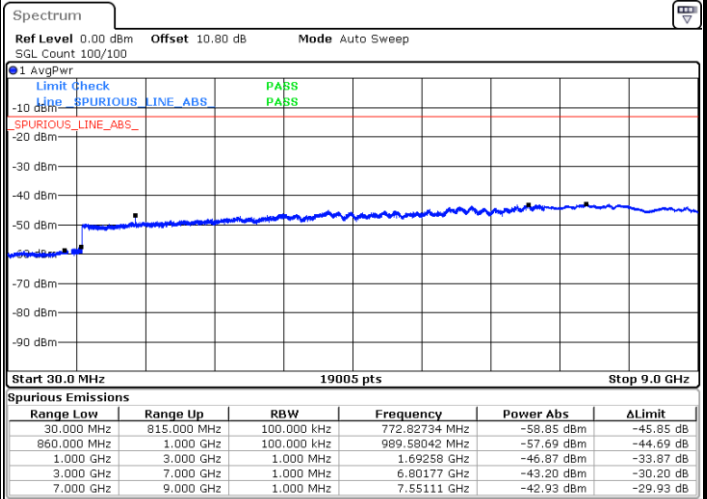
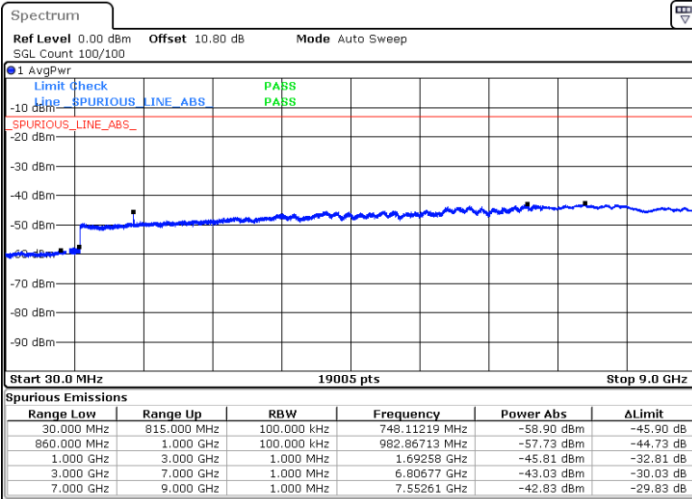


Date: 5.OCT.2019 00:58:58

Date: 5.OCT.2019 00:59:38

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5.OCT.2019 01:07:51

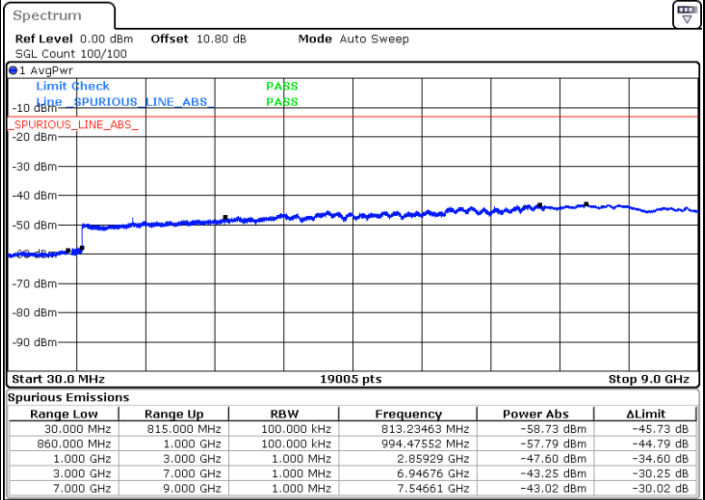
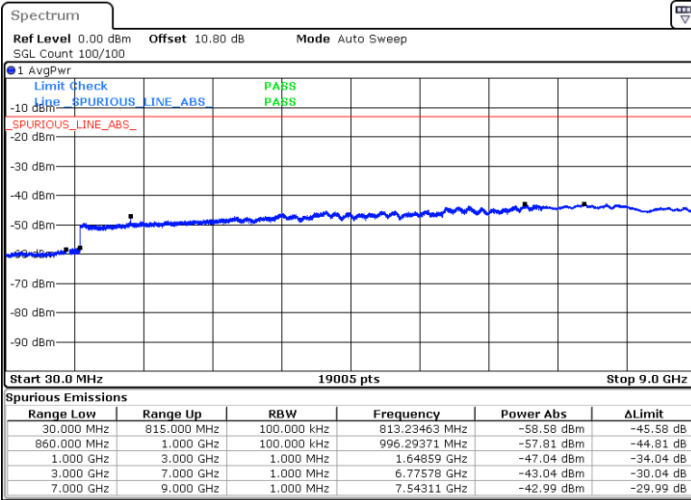
Date: 5.OCT.2019 01:08:32



LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

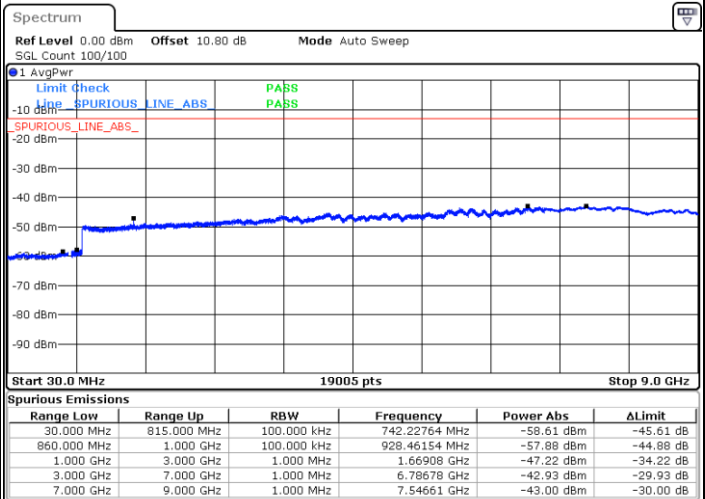
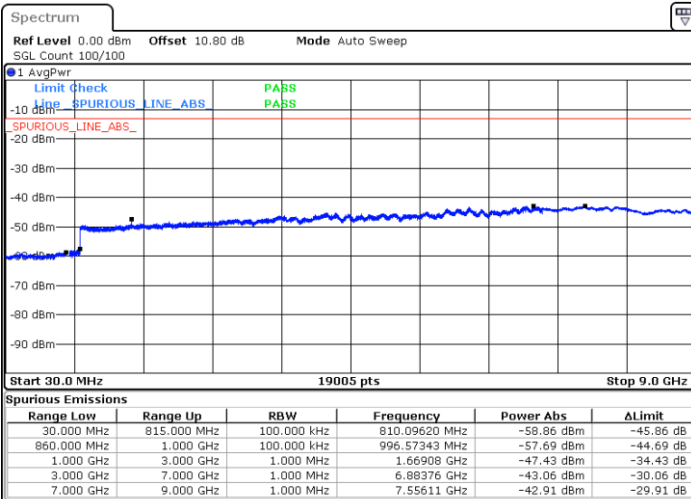


Date: 5.OCT.2019 01:16:44

Date: 5.OCT.2019 01:17:25

Middle Channel / QPSK

Middle Channel / 16QAM



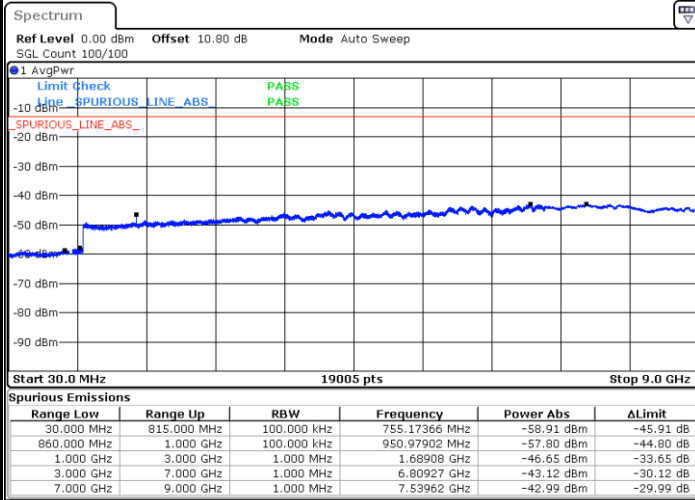
Date: 5.OCT.2019 01:18:51

Date: 5.OCT.2019 01:19:31



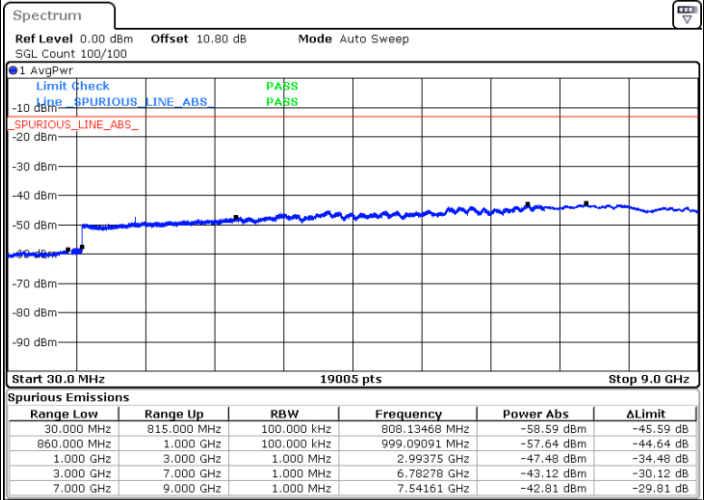
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 5.OCT.2019 01:27:43

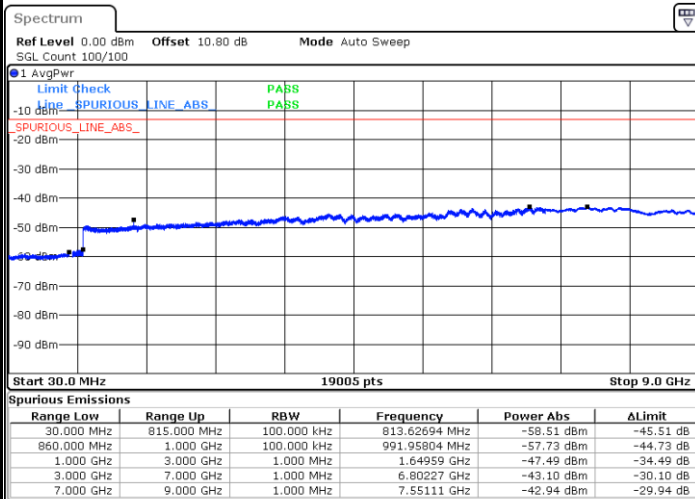
Highest Channel / 16QAM



Date: 5.OCT.2019 01:28:24

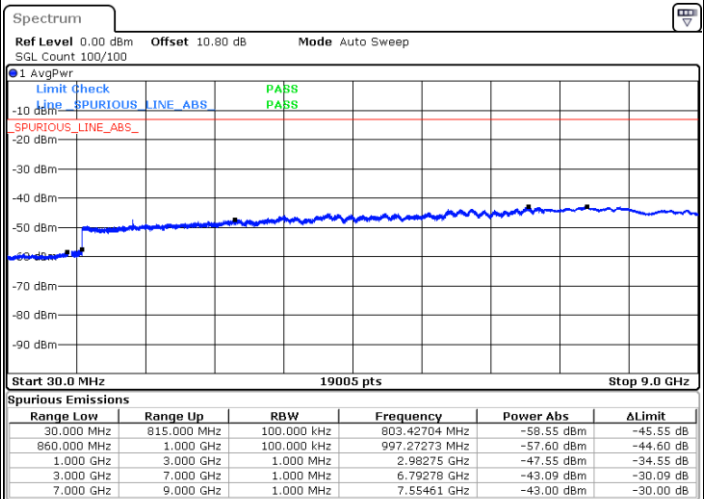
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 5.OCT.2019 01:34:32

Lowest Channel / 16QAM



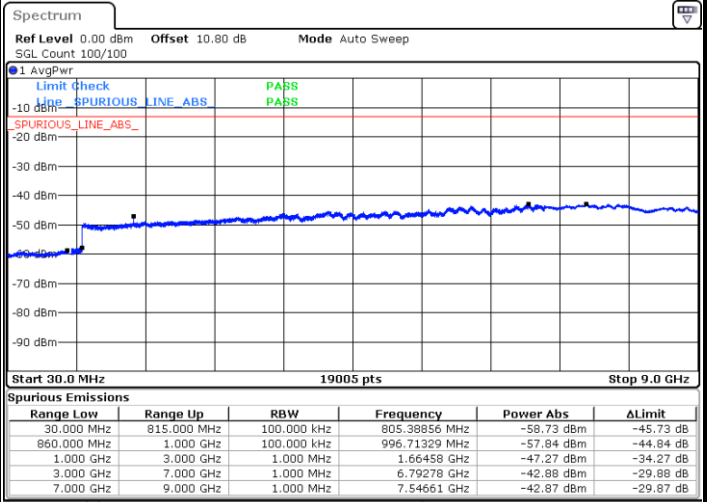
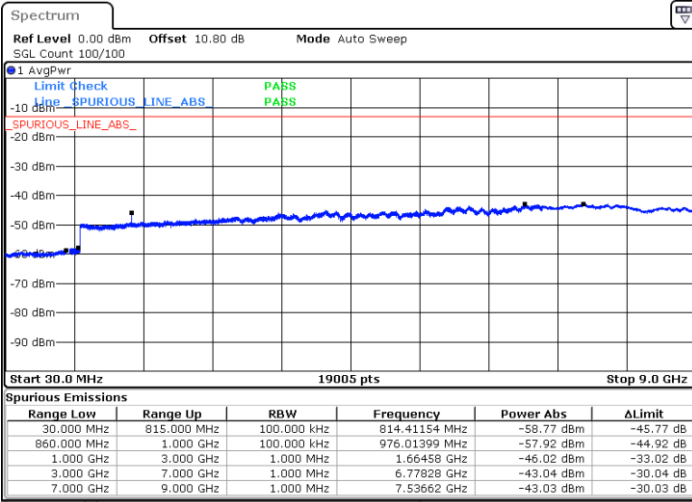
Date: 5.OCT.2019 01:35:12



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

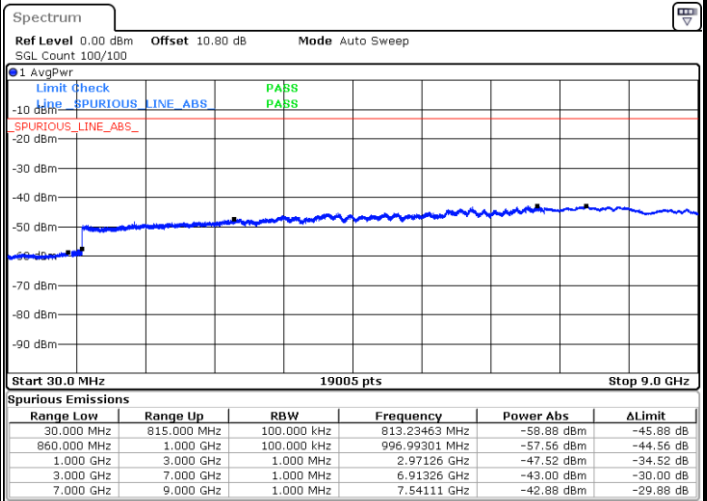
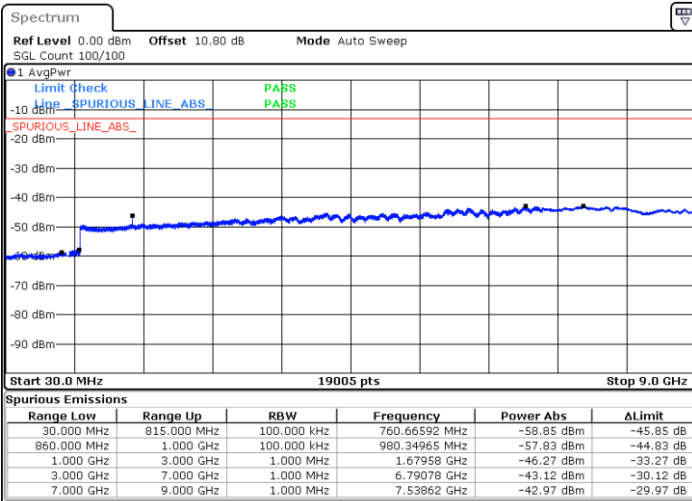


Date: 5.OCT.2019 01:36:16

Date: 5.OCT.2019 01:36:56

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 5.OCT.2019 01:43:02

Date: 5.OCT.2019 01:43:43



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0060	
-10	Normal Voltage	0.0023	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0020	

Note:

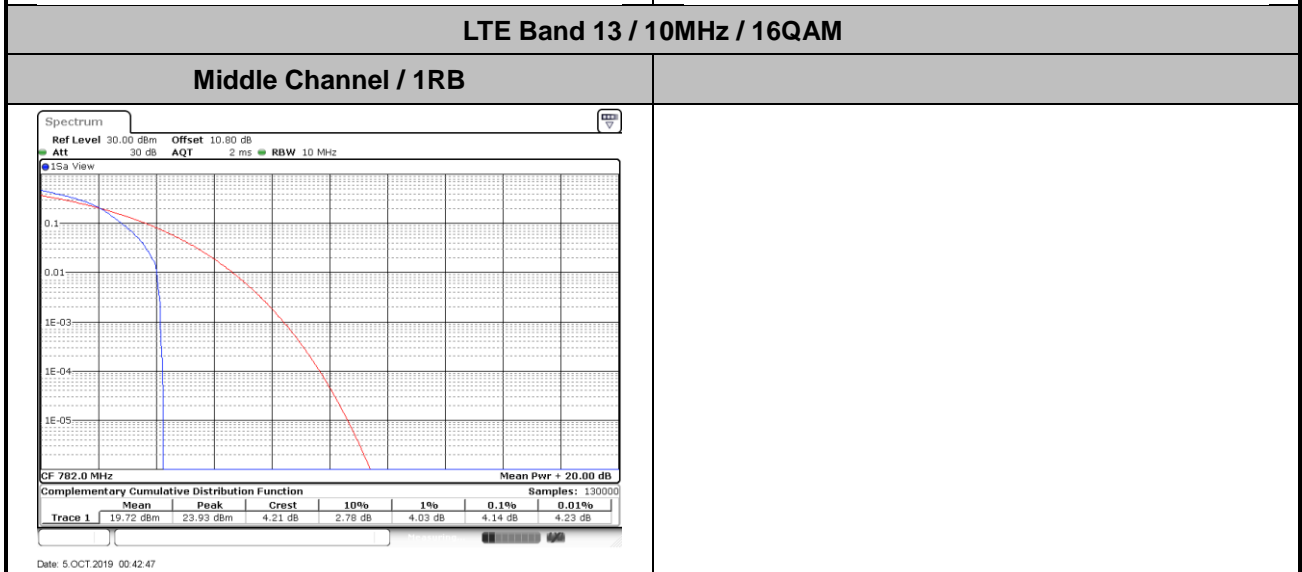
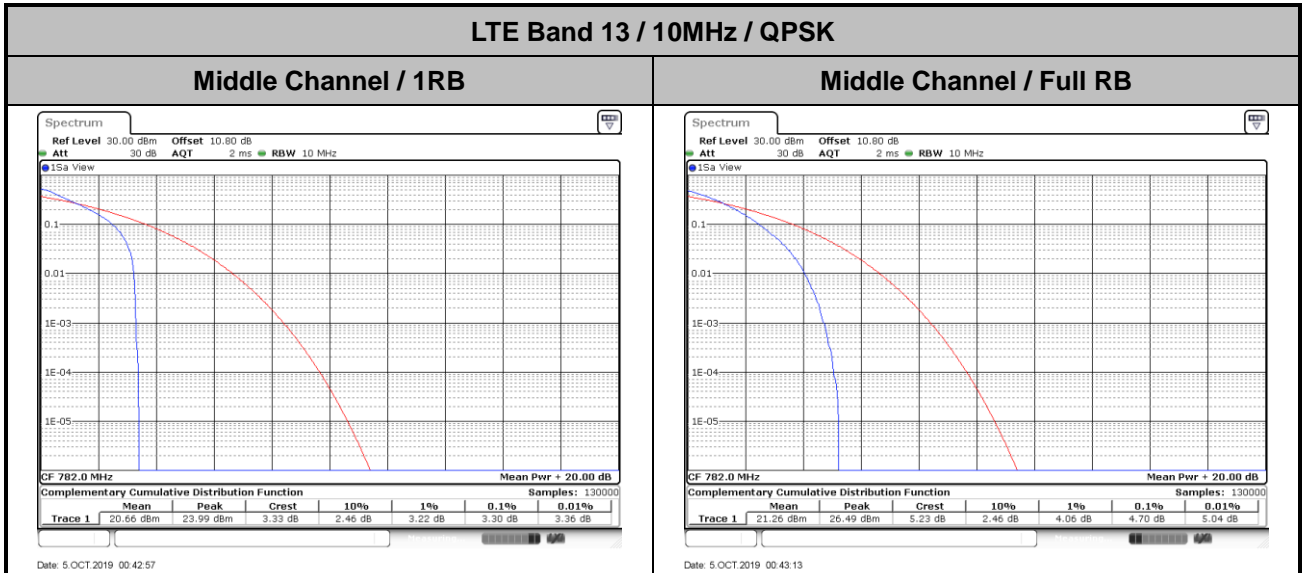
1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				Limit: 13dB
Mod.	QPSK		16QAM		
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.30	4.70	4.14	-	
Highest CH	-	-	-	-	





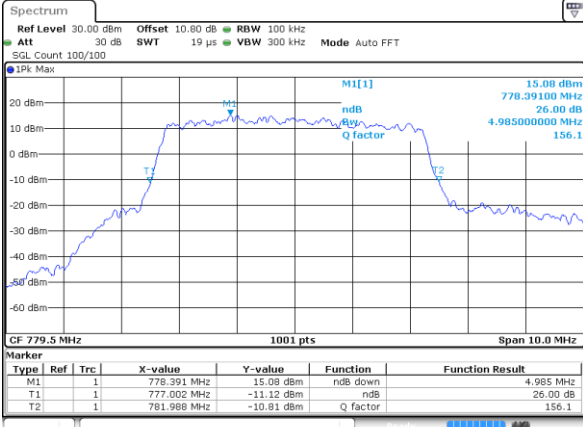
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW												
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.99	4.88	-	-	-	-	-	-
Middle CH	-	-	-	-	5.00	4.86	9.71	-	-	-	-	-
Highest CH	-	-	-	-	4.91	4.92	-	-	-	-	-	-



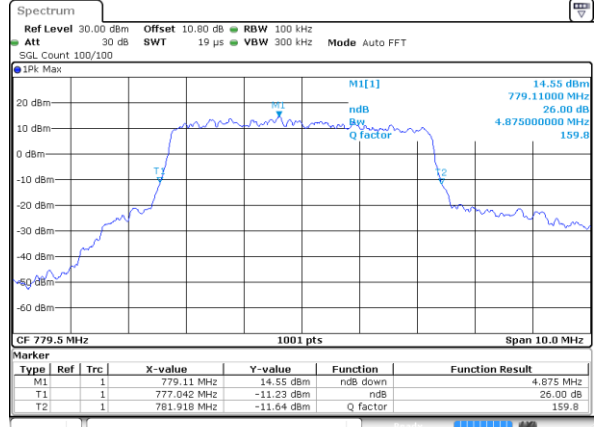
LTE Band 13

Lowest Channel / 5MHz / QPSK



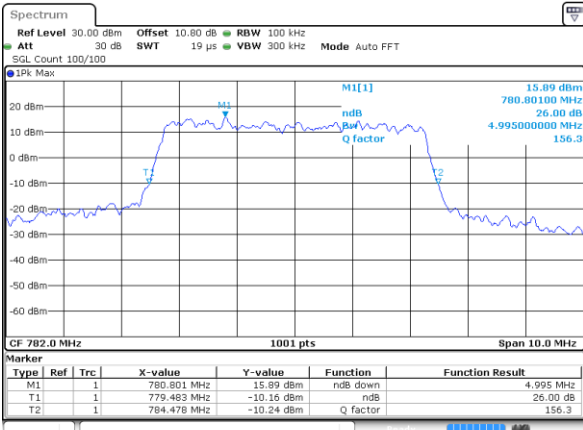
Date: 5.OCT.2019 00:05:51

Lowest Channel / 5MHz / 16QAM



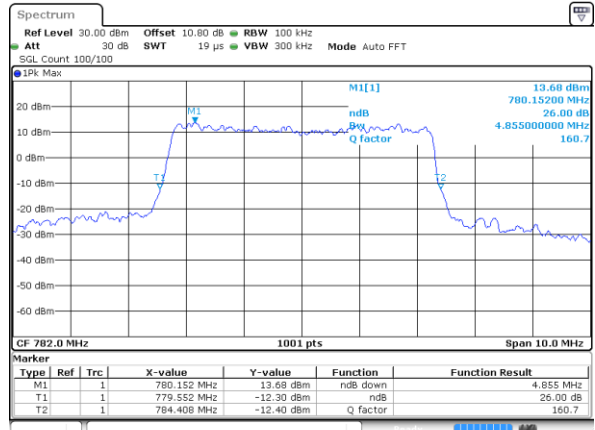
Date: 5.OCT.2019 00:05:39

Middle Channel / 5MHz / QPSK



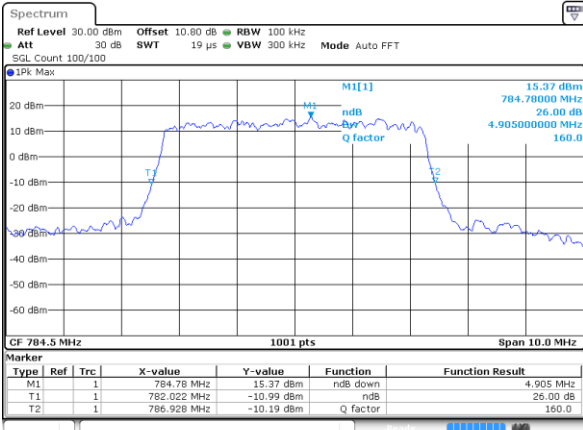
Date: 5.OCT.2019 00:15:28

Middle Channel / 5MHz / 16QAM



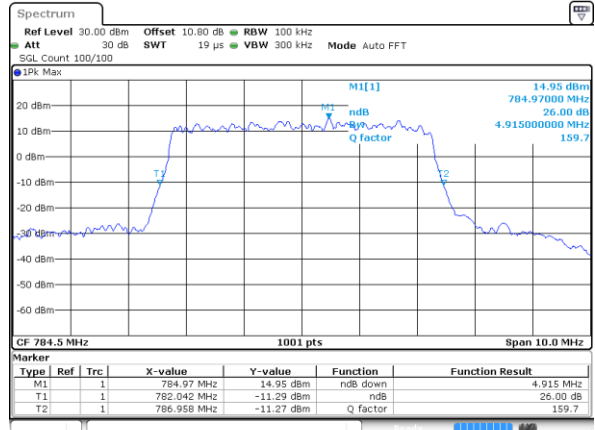
Date: 5.OCT.2019 00:15:39

Highest Channel / 5MHz / QPSK



Date: 5.OCT.2019 00:16:50

Highest Channel / 5MHz / 16QAM

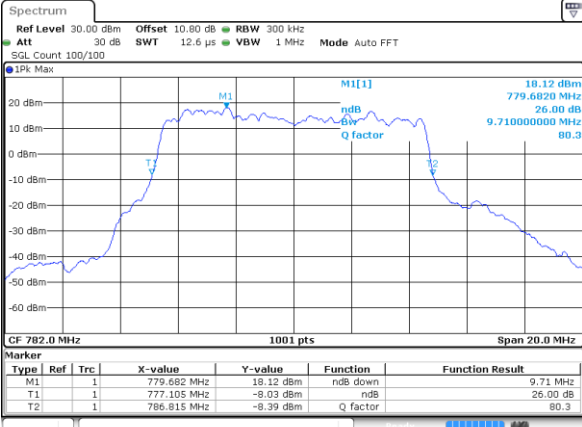


Date: 5.OCT.2019 00:16:38



LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 5 OCT 2019 00:25:18



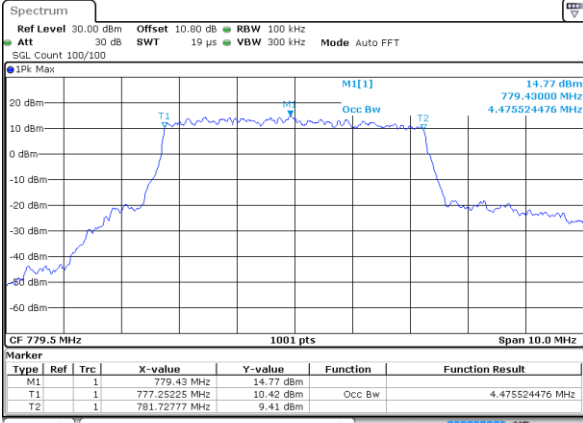
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
BW	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.47	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	4.51	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.48	4.51	-	-	-	-	-	-



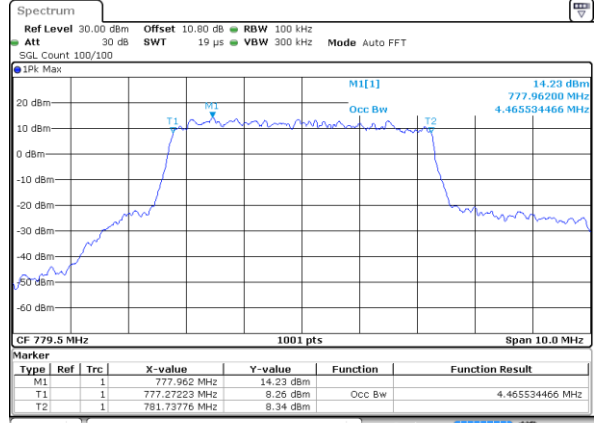
LTE Band 13

Lowest Channel / 5MHz / QPSK



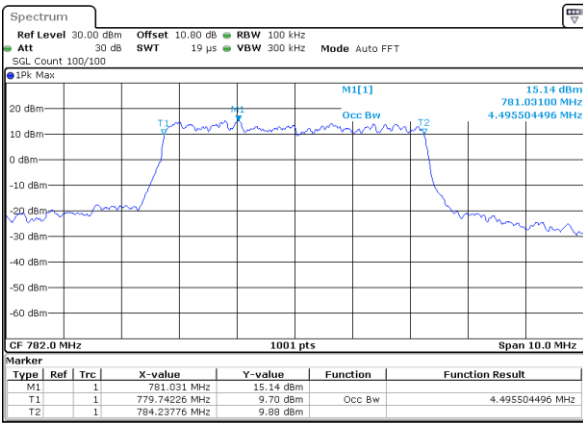
Date: 5.OCT.2019 00:05:14

Lowest Channel / 5MHz / 16QAM



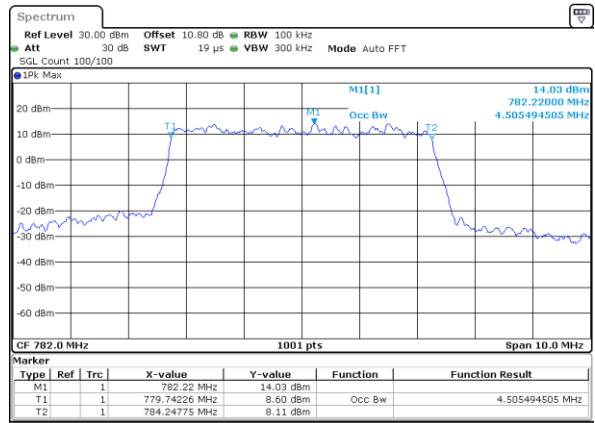
Date: 5.OCT.2019 00:05:27

Middle Channel / 5MHz / QPSK



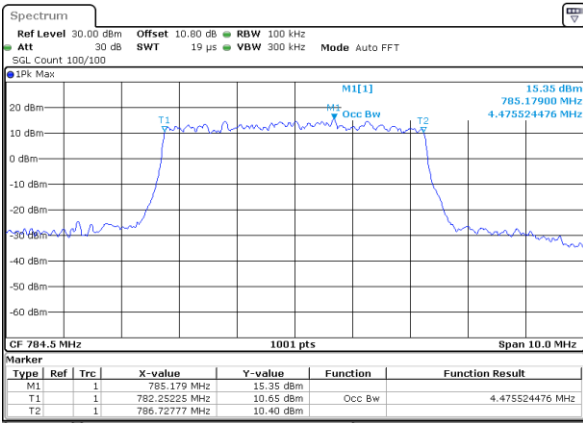
Date: 5.OCT.2019 00:16:02

Middle Channel / 5MHz / 16QAM



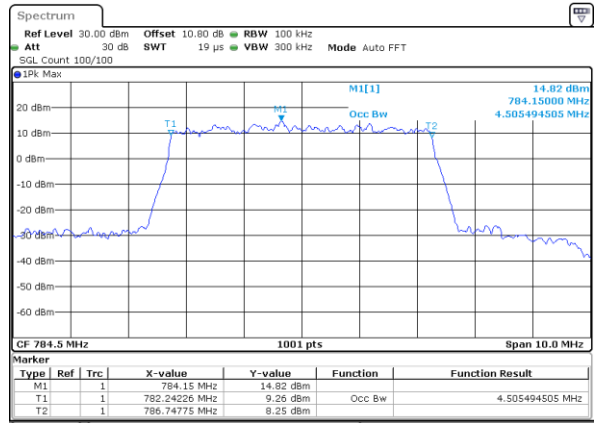
Date: 5.OCT.2019 00:15:51

Highest Channel / 5MHz / QPSK



Date: 5.OCT.2019 00:16:14

Highest Channel / 5MHz / 16QAM

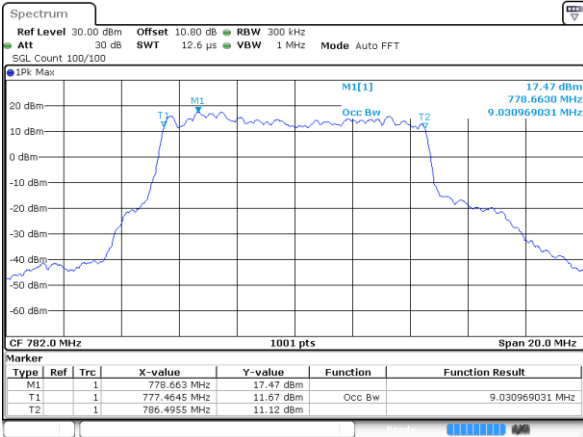


Date: 5.OCT.2019 00:16:26



LTE Band 13

Middle Channel / 10MHz / QPSK



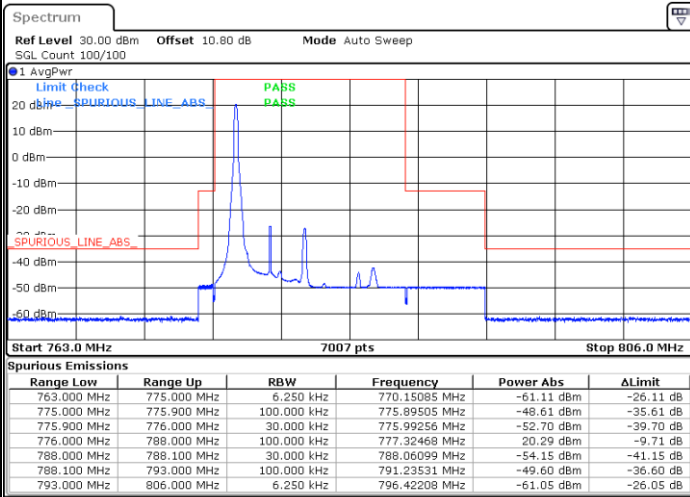


Conducted Band Edge

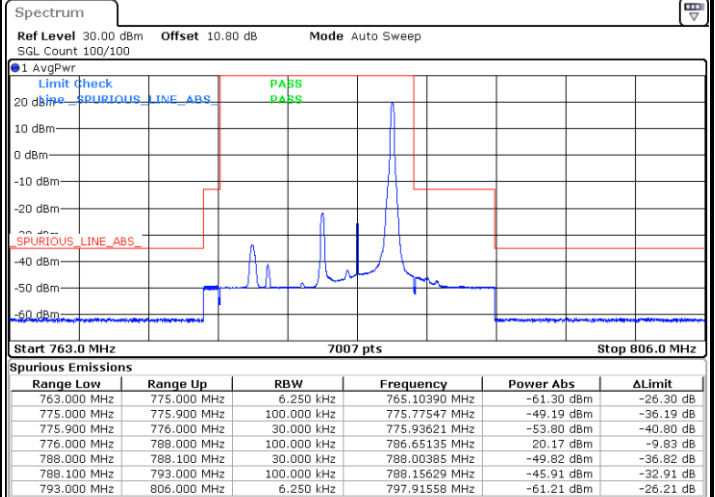
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



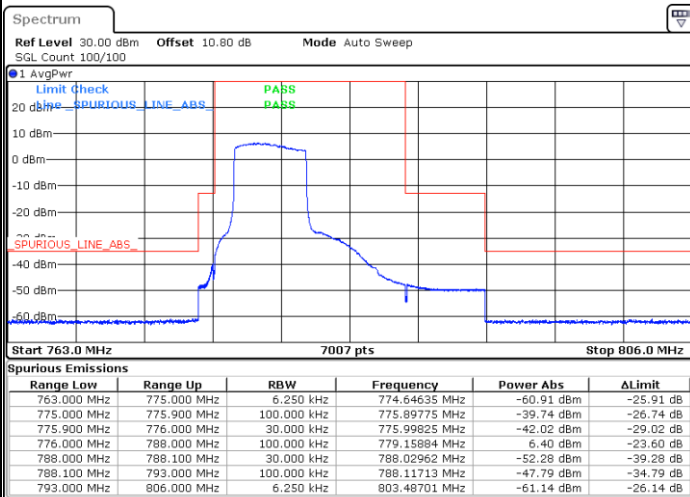
Date: 5.OCT.2019 00:12:34



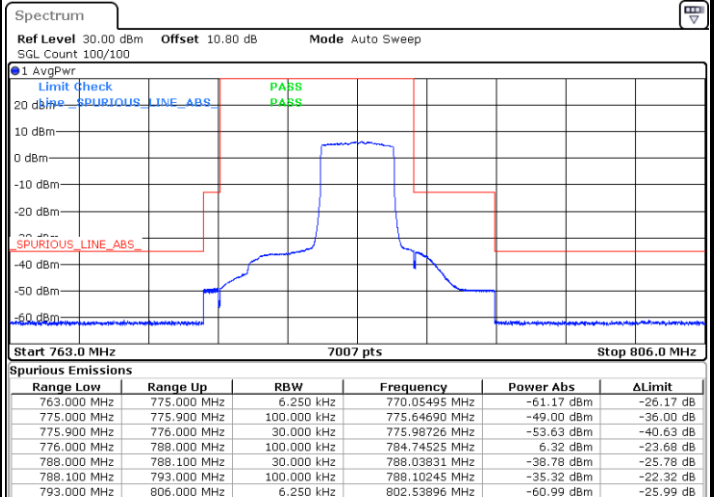
Date: 5.OCT.2019 00:23:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.OCT.2019 00:07:32



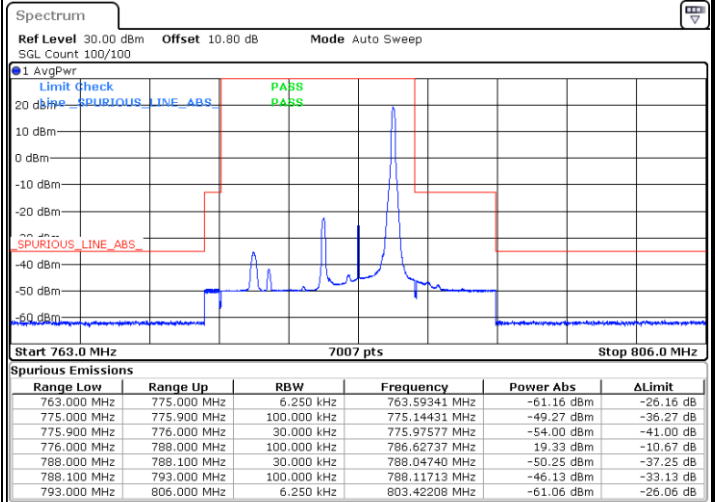
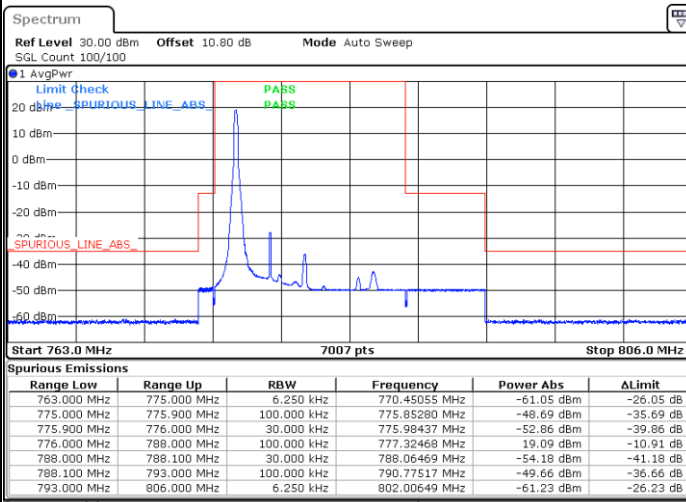
Date: 5.OCT.2019 00:18:30



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

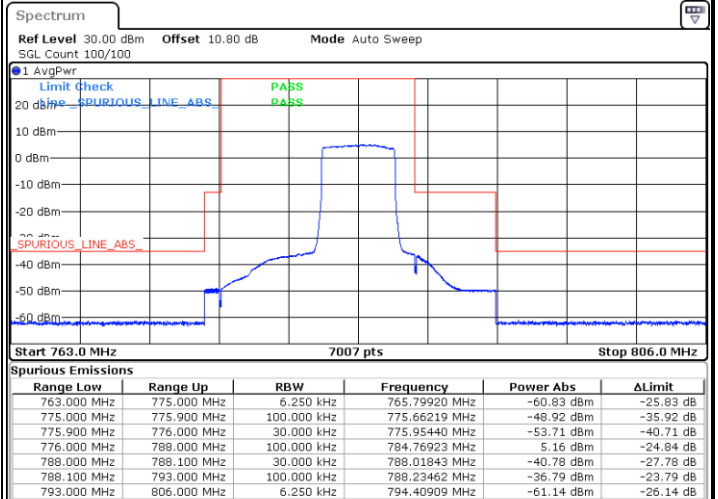
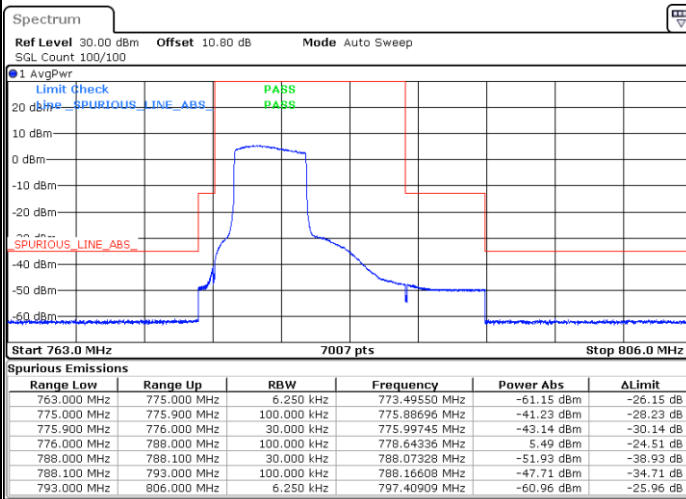


Date: 5.OCT.2019 00:10:54

Date: 5.OCT.2019 00:21:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



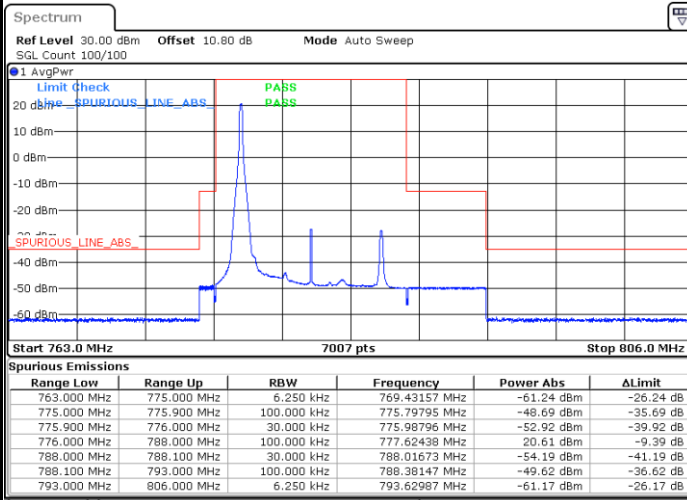
Date: 5.OCT.2019 00:09:13

Date: 5.OCT.2019 00:20:11



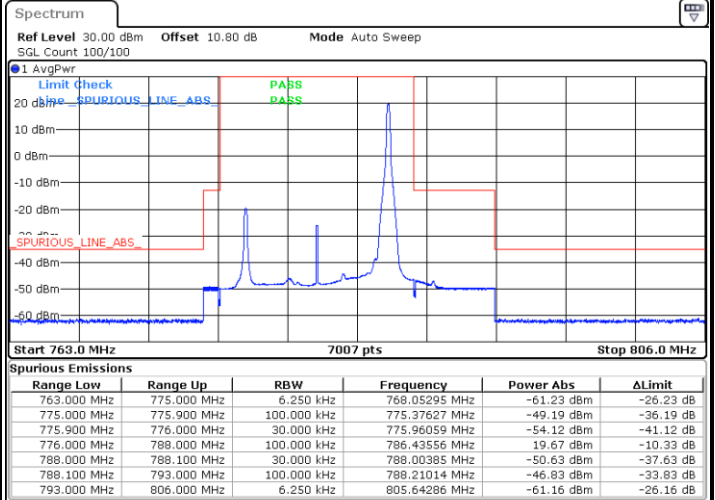
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



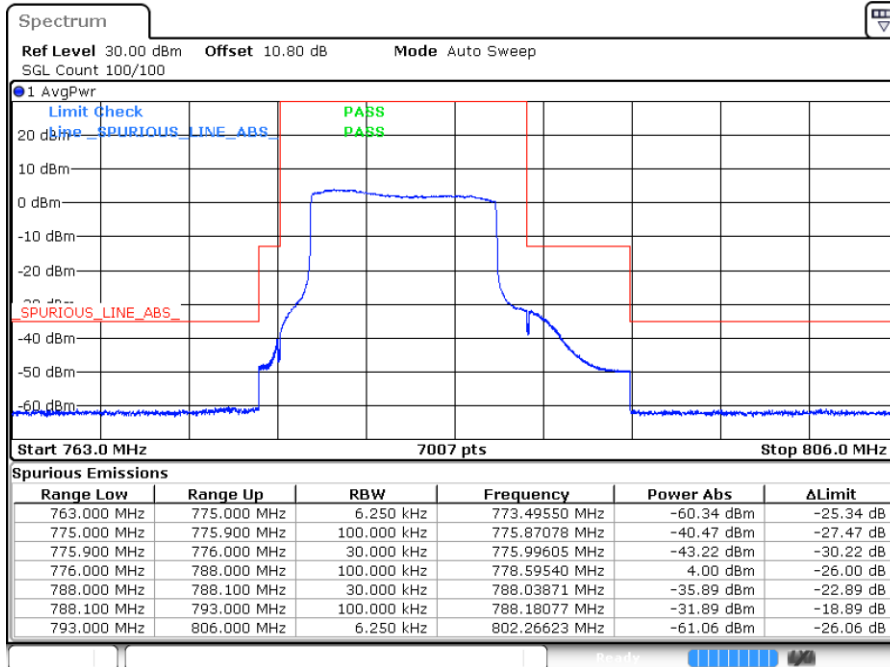
Date: 5.OCT.2019 00:30:18

Highest Band Edge / 1 RB



Date: 5.OCT.2019 00:31:58

Band Edge / Full RB



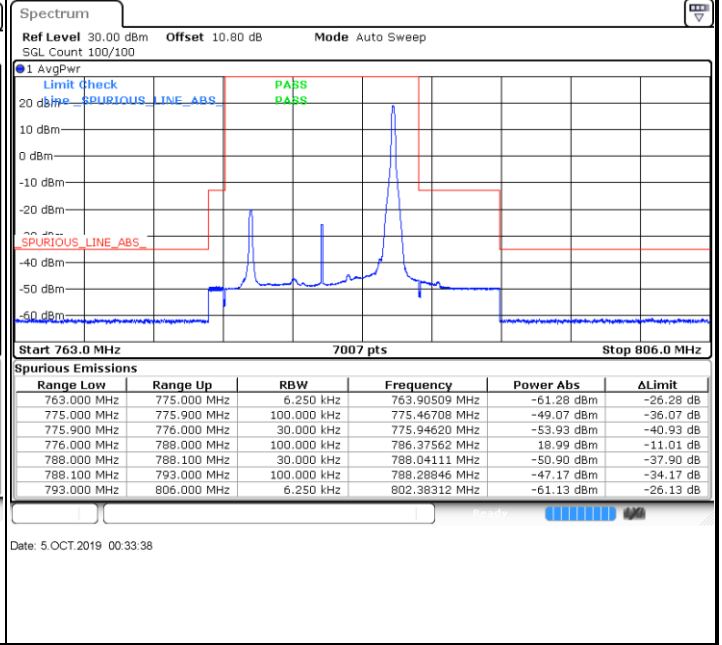
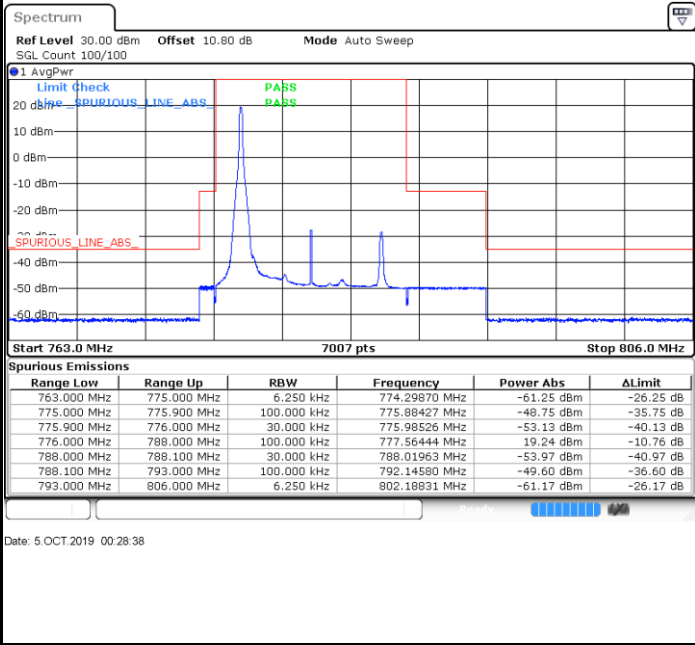
Date: 5.OCT.2019 00:26:57



LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

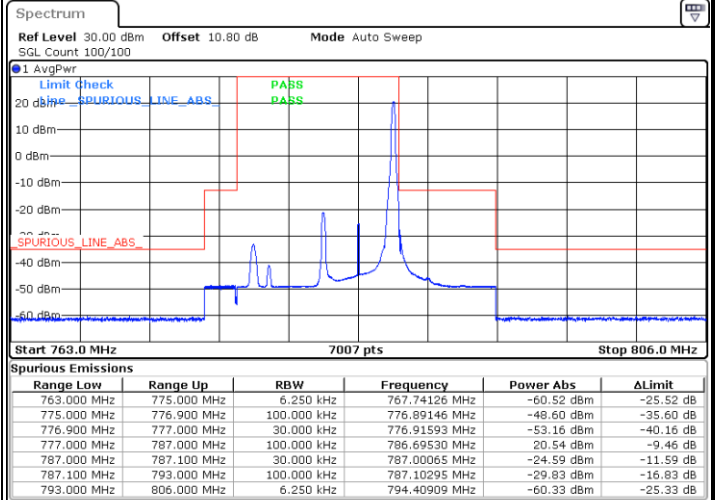
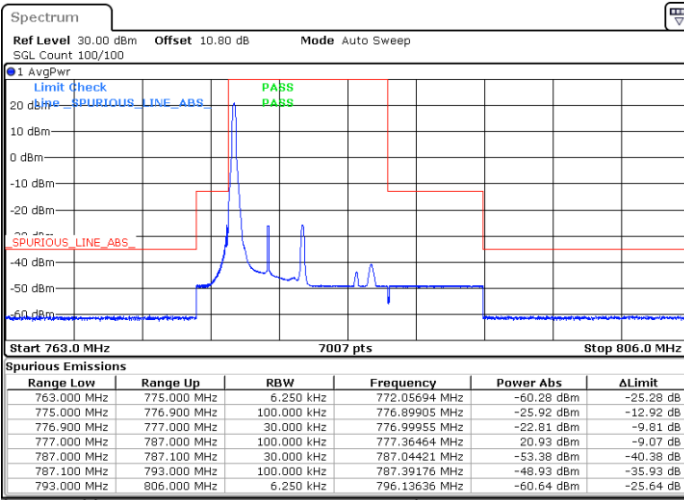




IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

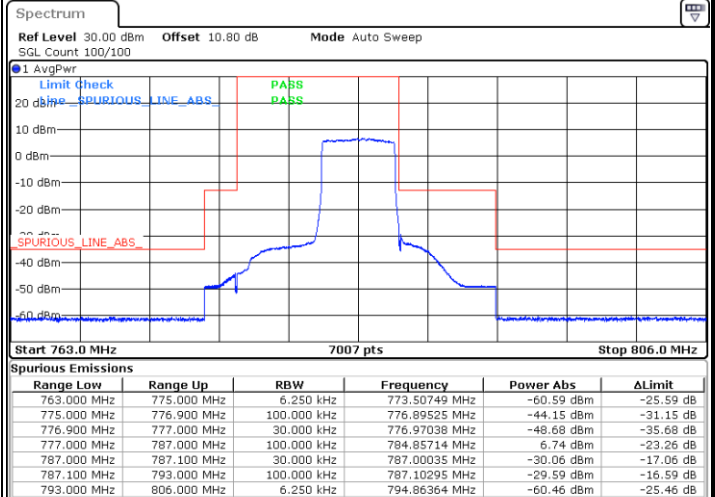
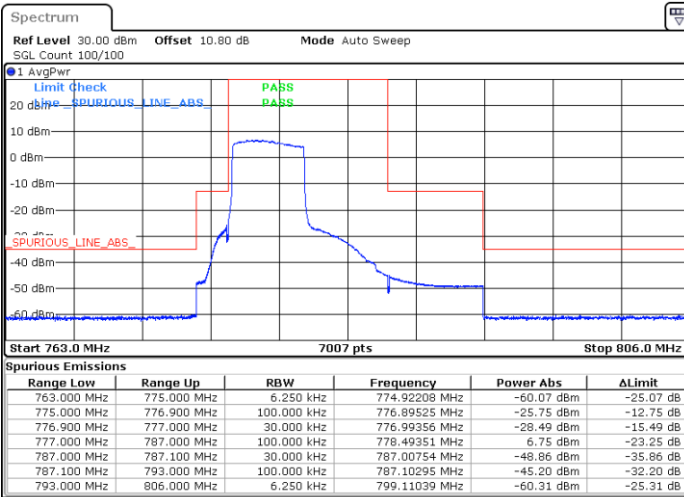


Date: 7.OCT.2019 21:07:31

Date: 7.OCT.2019 21:14:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 7.OCT.2019 21:02:34

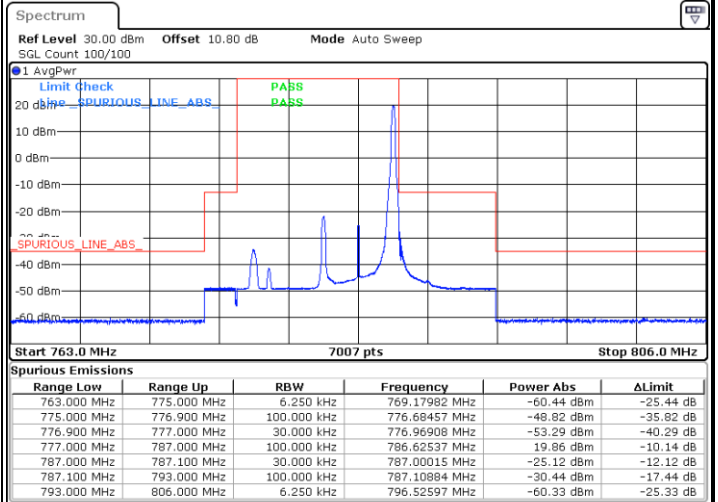
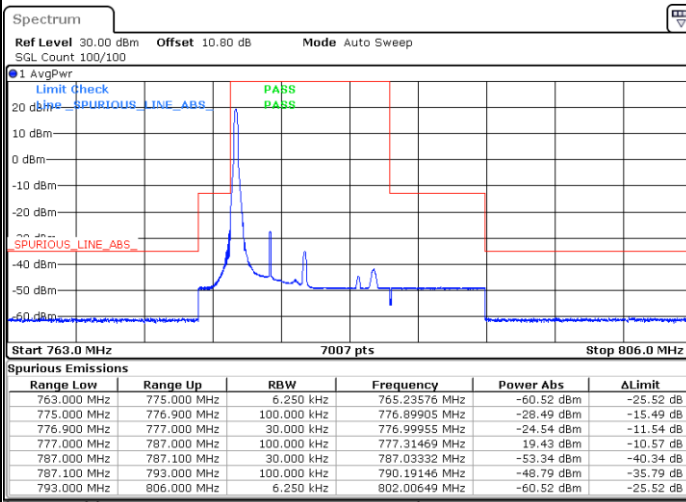
Date: 7.OCT.2019 21:09:10



IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

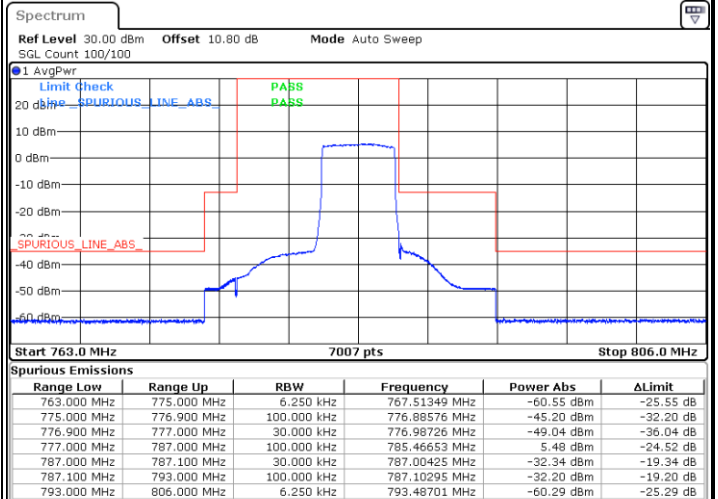
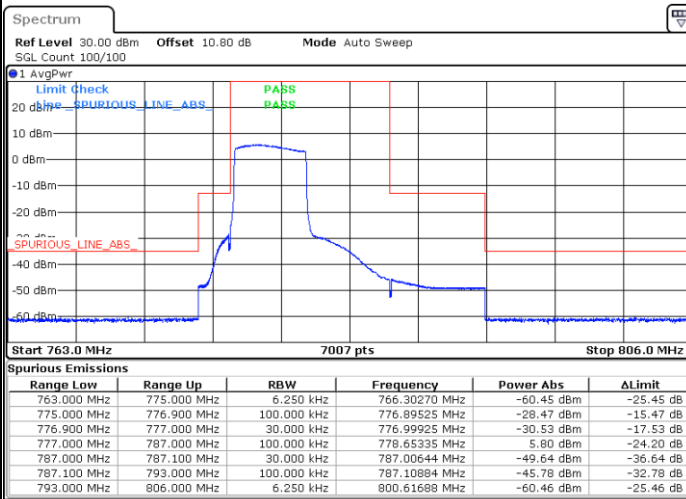


Date: 7.OCT.2019 21:05:52

Date: 7.OCT.2019 21:12:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



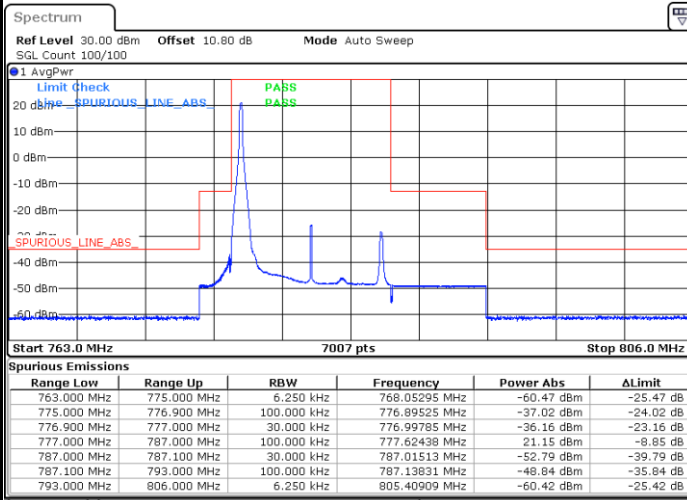
Date: 7.OCT.2019 21:04:13

Date: 7.OCT.2019 21:10:49



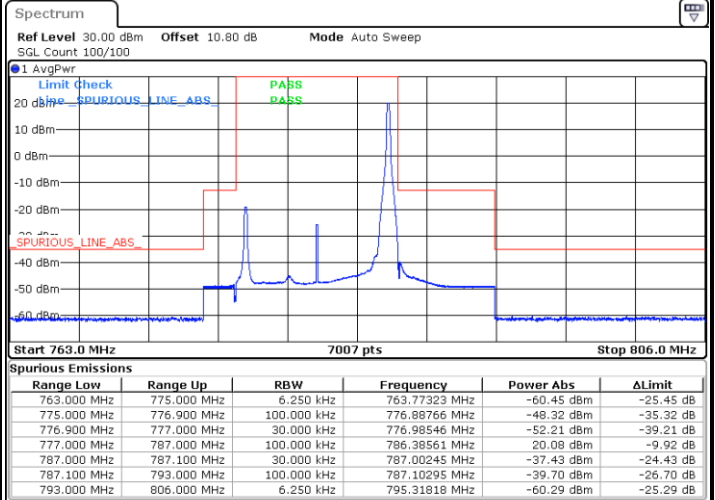
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



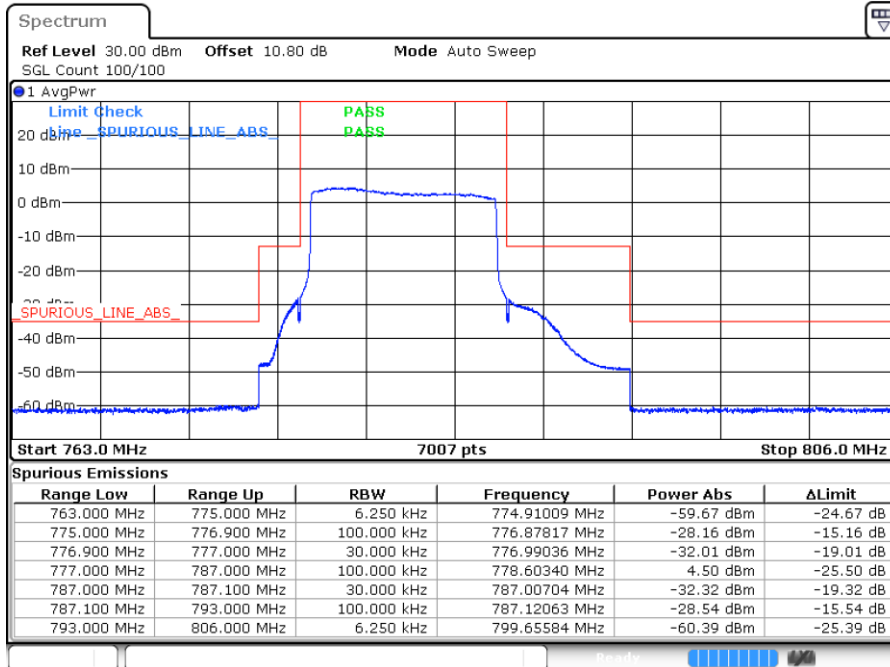
Date: 7.OCT.2019 21:19:03

Highest Band Edge / 1 RB



Date: 7.OCT.2019 21:20:42

Band Edge / Full RB



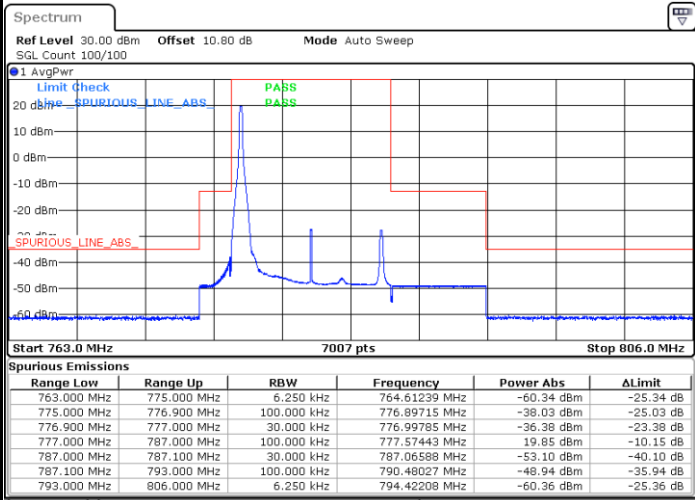
Date: 7.OCT.2019 21:15:45



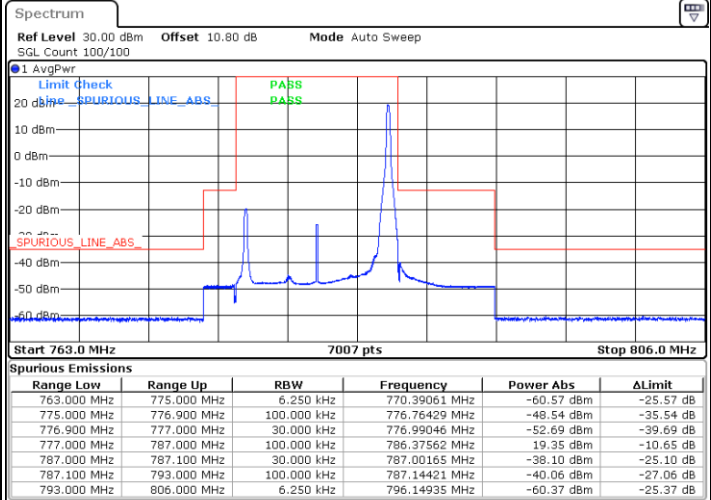
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



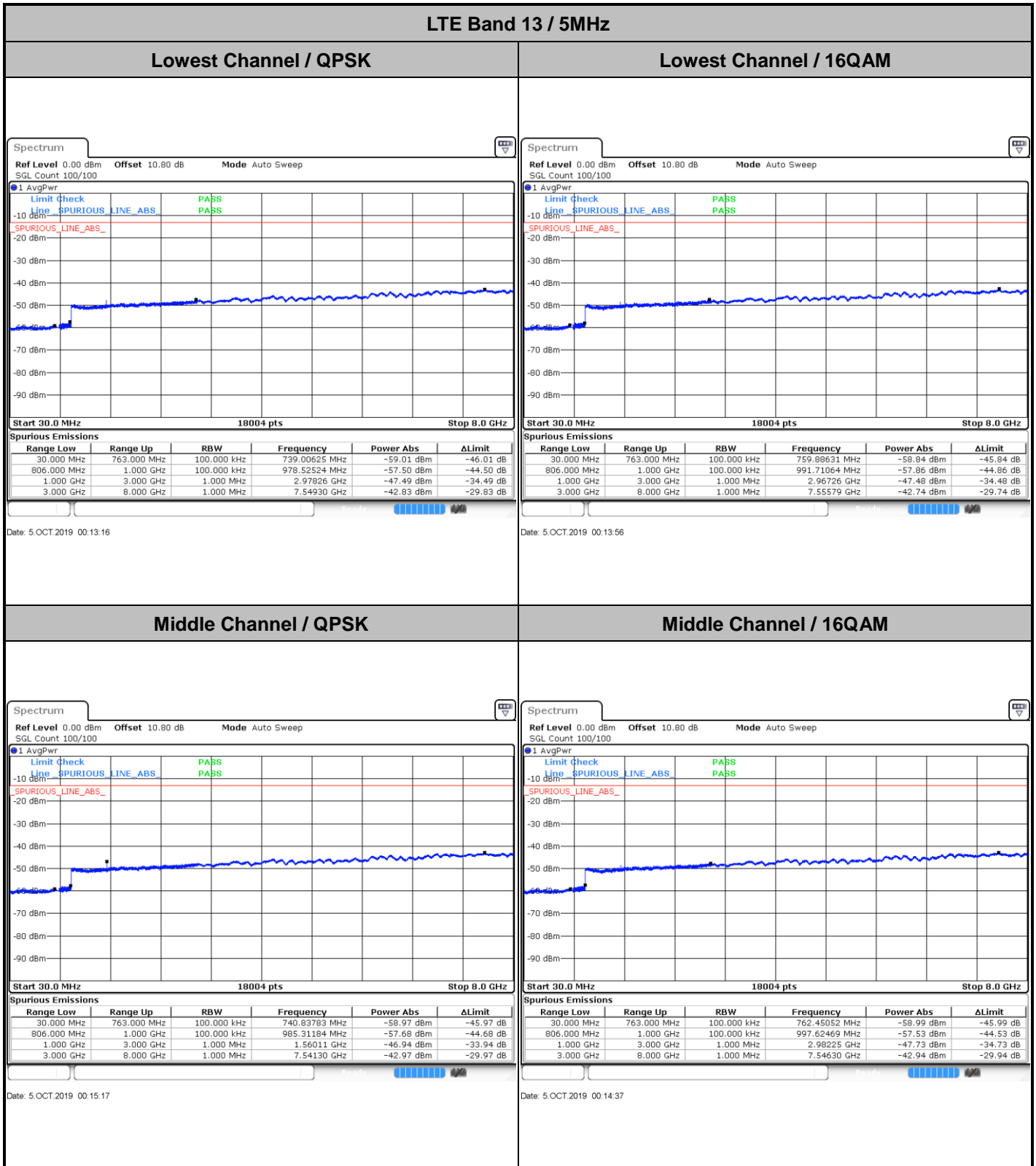
Date: 7.OCT.2019 21:17.24



Date: 7.OCT.2019 21:22.21



Conducted Spurious Emission

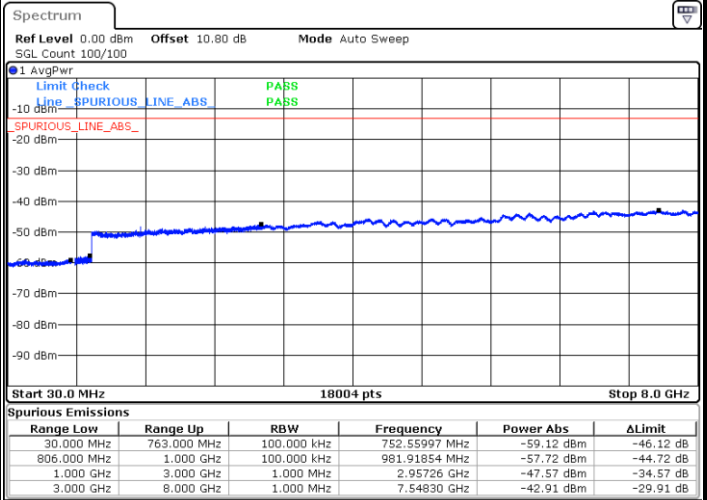
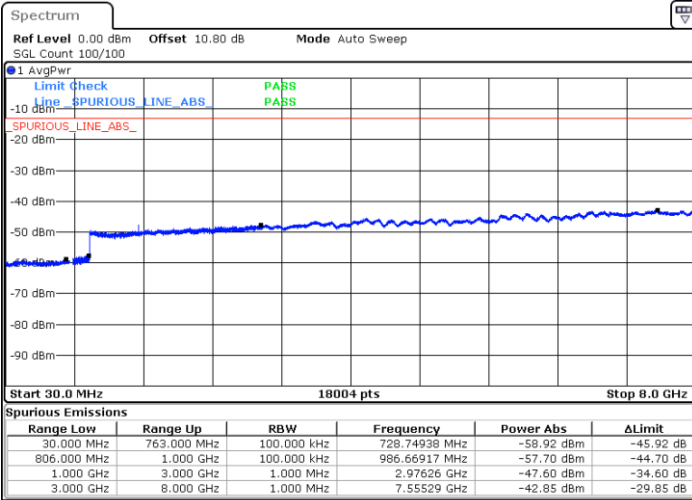




LTE Band 13 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



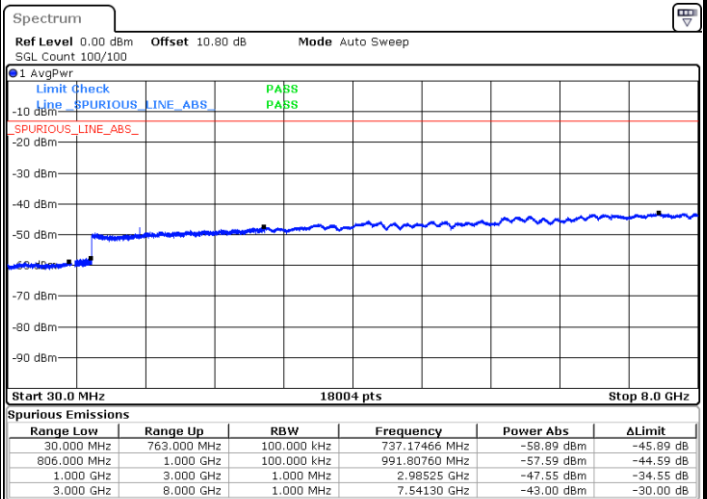
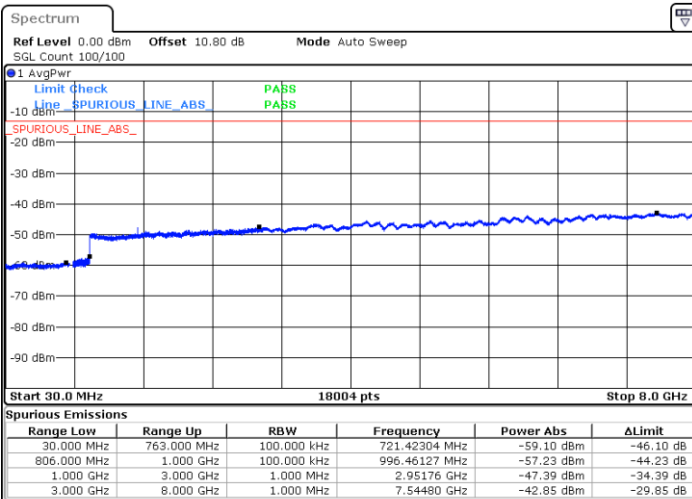
Date: 5.OCT.2019 00:24:14

Date: 5.OCT.2019 00:24:54

LTE Band 13 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 5.OCT.2019 00:34:59

Date: 5.OCT.2019 00:34:19



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0068	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0065	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

- 1. Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

LTE Band 2 / 1.4MHz (Average) (GT - LC = -2.7 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	0	22.42	0.1746	19.72	0.0938
Middle		3	0	22.35	0.1718	19.65	0.0923
Highest		3	0	22.65	0.1841	19.95	0.0989
Lowest	16QAM	1	5	20.75	0.1189	18.05	0.0638
Middle		1	5	21.57	0.1435	18.87	0.0771
Highest		1	5	21.73	0.1489	19.03	0.0800
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 3MHz (Average) (GT - LC = -2.7 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.56	0.1803	19.86	0.0968
Middle		1	0	22.37	0.1726	19.67	0.0927
Highest		1	0	22.68	0.1854	19.98	0.0995
Lowest	16QAM	1	0	21.25	0.1334	18.55	0.0716
Middle		1	0	21.15	0.1303	18.45	0.0700
Highest		1	0	21.41	0.1384	18.71	0.0743
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 5MHz (Average) (GT - LC = -2.7 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	21.92	0.1556	19.22	0.0836
Middle		1	12	21.56	0.1432	18.86	0.0769
Highest		1	12	21.66	0.1466	18.96	0.0787
Lowest	16QAM	1	12	21.08	0.1282	18.38	0.0689
Middle		1	12	20.42	0.1102	17.72	0.0592
Highest		1	12	20.71	0.1178	18.01	0.0632
Limit	EIRP < 2W			Result		PASS	



LTE Band 2 / 10MHz (Average) (GT - LC = -2.7 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.11	0.1626	19.41	0.0873
Middle		1	25	21.86	0.1535	19.16	0.0824
Highest		1	25	21.96	0.1570	19.26	0.0843
Lowest	16QAM	1	25	20.95	0.1245	18.25	0.0668
Middle		1	25	20.49	0.1119	17.79	0.0601
Highest		1	25	20.82	0.1208	18.12	0.0649
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 15MHz (Average) (GT - LC = -2.7 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.81	0.1517	19.11	0.0815
Middle		1	0	22.51	0.1782	19.81	0.0957
Highest		1	0	21.57	0.1435	18.87	0.0771
Limit	EIRP < 2W			Result		PASS	

LTE Band 2 / 20MHz (Average) (GT - LC = -2.7 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.64	0.1837	19.94	0.0986
Middle		1	0	22.74	0.1879	20.04	0.1009
Highest		1	0	22.15	0.1641	19.45	0.0881
Limit	EIRP < 2W			Result		PASS	



LTE Band 4 / 1.4MHz (Average) (GT - LC = -5.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	1	21.06	0.1276	15.76	0.0377
Middle		3	1	22.37	0.1726	17.07	0.0509
Highest		3	1	22.55	0.1799	17.25	0.0531
Lowest	16QAM	1	3	21.28	0.1343	15.98	0.0396
Middle		1	3	21.61	0.1449	16.31	0.0428
Highest		1	3	21.72	0.1486	16.42	0.0439
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = -5.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.37	0.1726	17.07	0.0509
Middle		1	0	22.56	0.1803	17.26	0.0532
Highest		1	0	22.65	0.1841	17.35	0.0543
Lowest	16QAM	1	0	21.27	0.1340	15.97	0.0395
Middle		1	0	21.16	0.1306	15.86	0.0385
Highest		1	0	21.40	0.1380	16.10	0.0407
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = -5.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	12	22.41	0.1742	17.11	0.0514
Middle		1	12	22.40	0.1738	17.10	0.0513
Highest		1	12	22.71	0.1866	17.41	0.0551
Lowest	16QAM	1	0	21.15	0.1303	15.85	0.0385
Middle		1	0	21.34	0.1361	16.04	0.0402
Highest		1	0	21.46	0.1400	16.16	0.0413
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = -5.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	25	22.52	0.1786	17.22	0.0527
Middle		1	25	22.45	0.1758	17.15	0.0519
Highest		1	25	22.47	0.1766	17.17	0.0521
Lowest	16QAM	1	25	21.48	0.1406	16.18	0.0415
Middle		1	25	21.69	0.1476	16.39	0.0436
Highest		1	25	21.79	0.1510	16.49	0.0446
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 15MHz (Average) (GT - LC = -5.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	74	22.48	0.1770	17.18	0.0522
Middle		1	74	21.99	0.1581	16.69	0.0467
Highest		1	74	22.56	0.1803	17.26	0.0532
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 20MHz (Average) (GT - LC = -5.3 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.12	0.1629	16.82	0.0481
Middle		1	0	22.72	0.1871	17.42	0.0552
Highest		1	0	22.28	0.1690	16.98	0.0499
Limit	EIRP < 1W			Result		PASS	



LTE Band 5 / 1.4MHz (Average) (GT - LC = -5.4 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	3	1	22.52	0.1786	14.97	0.0314
Middle		3	1	22.56	0.1803	15.01	0.0317
Highest		3	1	22.45	0.1758	14.90	0.0309
Lowest	16QAM	3	1	21.35	0.1365	13.80	0.0240
Middle		3	1	21.77	0.1503	14.22	0.0264
Highest		3	1	21.44	0.1393	13.89	0.0245
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -5.4 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	22.06	0.1607	14.51	0.0282
Middle		1	8	22.53	0.1791	14.98	0.0315
Highest		1	8	21.94	0.1563	14.39	0.0275
Lowest	16QAM	1	14	21.34	0.1361	13.79	0.0239
Middle		1	14	21.54	0.1426	13.99	0.0251
Highest		1	14	21.15	0.1303	13.60	0.0229
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -5.4 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.28	0.1690	14.73	0.0297
Middle		1	0	22.55	0.1799	15.00	0.0316
Highest		1	0	22.33	0.1710	14.78	0.0301
Lowest	16QAM	1	0	21.11	0.1291	13.56	0.0227
Middle		1	0	21.36	0.1368	13.81	0.0240
Highest		1	0	21.14	0.1300	13.59	0.0229
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 10MHz (Average) (GT - LC = -5.4 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	22.13	0.1633	14.58	0.0287
Middle		1	0	22.74	0.1879	15.19	0.0330
Highest		1	0	22.37	0.1726	14.82	0.0303
Lowest	16QAM	1	25	21.39	0.1377	13.84	0.0242
Middle		1	25	21.64	0.1459	14.09	0.0256
Highest		1	25	21.43	0.1390	13.88	0.0244
Limit	ERP < 7W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -7.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	24	21.91	0.1552	11.86	0.0153
Middle		1	24	22.26	0.1683	12.21	0.0166
Highest		1	24	22.05	0.1603	12.00	0.0158
Lowest	16QAM	1	24	21.20	0.1318	11.15	0.0130
Middle		1	24	20.94	0.1242	10.89	0.0123
Highest		1	24	20.96	0.1247	10.91	0.0123
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -7.9 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	0	22.54	0.1795	12.49	0.0177
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	21.78	0.1507	11.73	0.0149
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



Radiated Spurious Emission

Part 24E LTE Band 2

LTE Band 2/ 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3702	-52.05	-13	-39.05	-73.16	-58.62	1.67	8.24	H
	5556	-51.87	-13	-38.87	-77.28	-58.94	2.66	9.72	H
	7404	-50.99	-13	-37.99	-78.37	-60.14	2.46	11.61	H
									H
	3702	-48.82	-13	-35.82	-69.92	-55.39	1.67	8.24	V
	5556	-52.66	-13	-39.66	-78.04	-59.73	2.66	9.72	V
	7404	-50.98	-13	-37.98	-78.57	-60.13	2.46	11.61	V
									V
Middle	3744	-46.13	-13	-33.13	-67.21	-52.74	1.68	8.29	H
	5616	-52.36	-13	-39.36	-77.92	-59.41	2.69	9.75	H
	7482	-51.10	-13	-38.10	-78.81	-60.43	2.44	11.76	H
									H
	3744	-40.21	-13	-27.21	-61.3	-46.82	1.68	8.29	V
	5616	-51.74	-13	-38.74	-77.29	-58.79	2.69	9.75	V
	7482	-50.73	-13	-37.73	-78.37	-60.06	2.44	11.76	V
									V
Highest	3780	-56.12	-13	-43.12	-77.15	-62.76	1.69	8.34	H
	5676	-52.67	-13	-39.67	-78.35	-59.71	2.73	9.77	H
	7566	-49.91	-13	-36.91	-77.5	-59.34	2.41	11.84	H
									H
	3780	-55.01	-13	-42.01	-76.08	-61.65	1.69	8.34	V
	5676	-52.27	-13	-39.27	-77.94	-59.31	2.73	9.77	V
	7566	-49.49	-13	-36.49	-77.34	-58.92	2.41	11.84	V
									V

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



Part 27L LTE Band 4

LTE Band 4 / 20MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3420	-54.15	-13	-41.15	-75.04	-60.22	1.58	7.65	H
	5136	-33.22	-13	-20.22	-57.55	-40.5	2.42	9.70	H
	6846	-51.61	-13	-38.61	-78.69	-59.59	2.64	10.62	H
									H
	3420	-51.85	-13	-38.85	-72.79	-57.92	1.58	7.65	V
	5136	-31.29	-13	-18.29	-55.46	-38.57	2.42	9.70	V
	6846	-51.68	-13	-38.68	-78.71	-59.66	2.64	10.62	V
									V
Middle	3450	-47.89	-13	-34.89	-68.94	-54.08	1.59	7.78	H
	5172	-35.91	-13	-22.91	-60.33	-43.17	2.44	9.70	H
	6894	-51.19	-13	-38.19	-78.31	-59.24	2.62	10.67	H
									H
	3450	-52.46	-13	-39.46	-73.48	-58.65	1.59	7.78	V
	5172	-31.21	-13	-18.21	-55.48	-38.47	2.44	9.70	V
	6894	-50.37	-13	-37.37	-77.48	-58.42	2.62	10.67	V
									V
Highest	3474	-46.56	-13	-33.56	-67.78	-52.85	1.60	7.89	H
	5208	-36.81	-13	-23.81	-61.36	-44.05	2.46	9.70	H
	6942	-51.41	-13	-38.41	-78.6	-59.53	2.61	10.73	H
									H
	3474	-51.32	-13	-38.32	-72.43	-57.61	1.60	7.89	V
	5208	-36.05	-13	-23.05	-60.47	-43.29	2.46	9.70	V
	6942	-50.85	-13	-37.85	-78.06	-58.97	2.61	10.73	V
									V

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



Part 22H LTE Band 5

LTE Band 5 / 10MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-61.07	-13	-48.07	-73.61	-62.83	0.98	4.89	H
	2472	-59.29	-13	-46.29	-77.01	-61.17	1.28	5.32	H
	3296	-58.59	-13	-45.59	-78.31	-62	1.54	7.10	H
									H
	1648	-60.79	-13	-47.79	-73.72	-62.55	0.98	4.89	V
	2472	-59.24	-13	-46.24	-77.36	-61.12	1.28	5.32	V
	3296	-58.18	-13	-45.18	-78.17	-61.59	1.54	7.10	V
									V
Middle	1664	-61.31	-13	-48.31	-73.84	-63.02	0.98	4.84	H
	2496	-56.96	-13	-43.96	-74.64	-58.91	1.29	5.39	H
	3328	-58.78	-13	-45.78	-78.63	-62.32	1.55	7.24	H
									H
	1664	-58.32	-13	-45.32	-71.36	-60.03	0.98	4.84	V
	2496	-58.06	-13	-45.06	-76.17	-60.01	1.29	5.39	V
	3328	-57.92	-13	-44.92	-78.07	-61.46	1.55	7.24	V
									V
Highest	1680	-63.25	-13	-50.25	-76	-64.9	0.99	4.80	H
	2520	-55.21	-13	-42.21	-72.91	-57.18	1.30	5.42	H
	3360	-58.65	-13	-45.65	-78.74	-62.32	1.56	7.38	H
									H
	1680	-58.98	-13	-45.98	-72.19	-60.63	0.99	4.80	V
	2520	-55.54	-13	-42.54	-73.7	-57.51	1.30	5.42	V
	3360	-58.20	-13	-45.20	-78.45	-61.87	1.56	7.38	V
									V

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



Part 27H LTE Band 13

LTE Band 13 / 5MHz / QPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1560	-54.92	-42.15	-12.77	-66.67	-56.96	0.94	5.13	H
	2344	-60.51	-13	-47.51	-77.53	-62.05	1.24	4.93	H
	3128	-59.54	-13	-46.54	-78.46	-62.27	1.49	6.36	H
									H
	1560	-56.67	-42.15	-14.52	-68.96	-58.71	0.94	5.13	V
	2344	-59.92	-13	-46.92	-77.36	-61.46	1.24	4.93	V
	3128	-59.15	-13	-46.15	-78.61	-61.88	1.49	6.36	V
									V
Middle	1568	-53.47	-42.15	-11.32	-65.24	-55.49	0.94	5.11	H
	2353	-60.26	-13	-47.26	-77.14	-61.82	1.24	4.96	H
	3136	-59.79	-13	-46.79	-78.67	-62.55	1.49	6.40	H
									H
	1568	-55.79	-42.15	-13.64	-68.06	-57.81	0.94	5.11	V
	2353	-60.12	-13	-47.12	-77.68	-61.68	1.24	4.96	V
	3136	-59.07	-13	-46.07	-78.69	-61.83	1.49	6.40	V
									V
Highest	1576	-57.02	-42.15	-14.87	-67.94	-59.01	0.95	5.09	H
	2361	-60.55	-13	-47.55	-77.62	-62.14	1.25	4.98	H
	3144	-59.44	-13	-46.44	-78.42	-62.23	1.49	6.43	H
									H
	1576	-56.58	-42.15	-14.43	-68.99	-58.57	0.95	5.09	V
	2361	-59.92	-13	-46.92	-77.49	-61.51	1.25	4.98	V
	3144	-58.73	-13	-45.73	-78.35	-61.52	1.49	6.43	V
									V

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



LTE Band 13 / 10MHz / QPSK									
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	1552	-62.39	-13	-49.39	-74.08	-64.46	0.94	5.15	H
	2336	-60.39	-13	-47.39	-77.33	-61.91	1.24	4.91	H
	3112	-59.72	-13	-46.72	-78.51	-62.38	1.48	6.29	H
									H
	1552	-62.42	-13	-49.42	-74.54	-64.49	0.94	5.15	V
	2336	-58.66	-13	-45.66	-76.2	-60.18	1.24	4.91	V
	3112	-58.81	-13	-45.81	-78.4	-61.47	1.48	6.29	V
									V