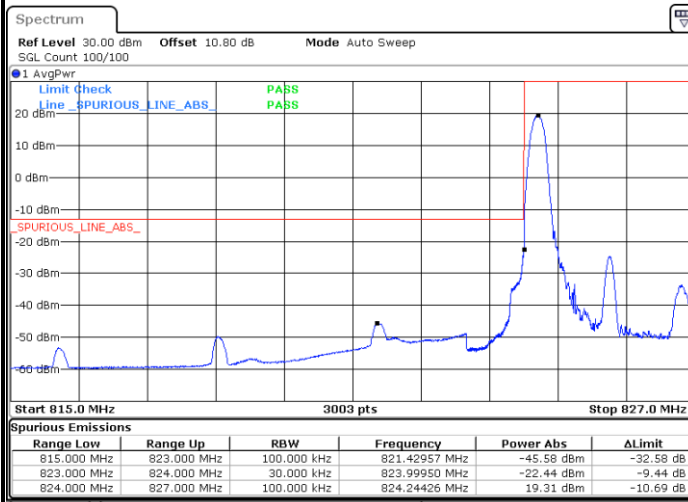




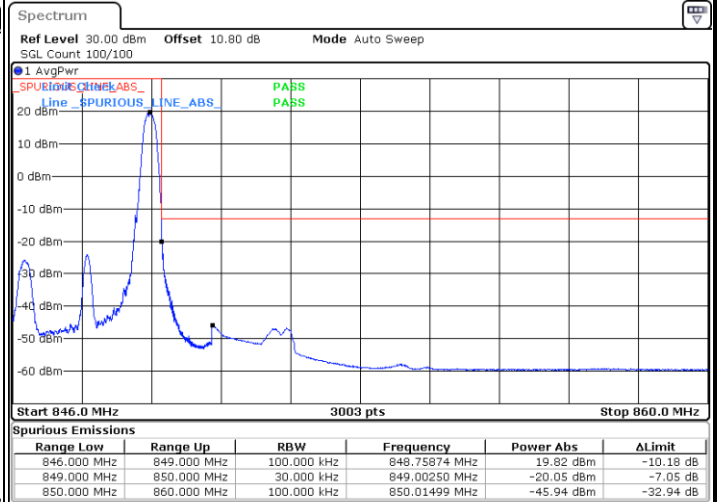
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



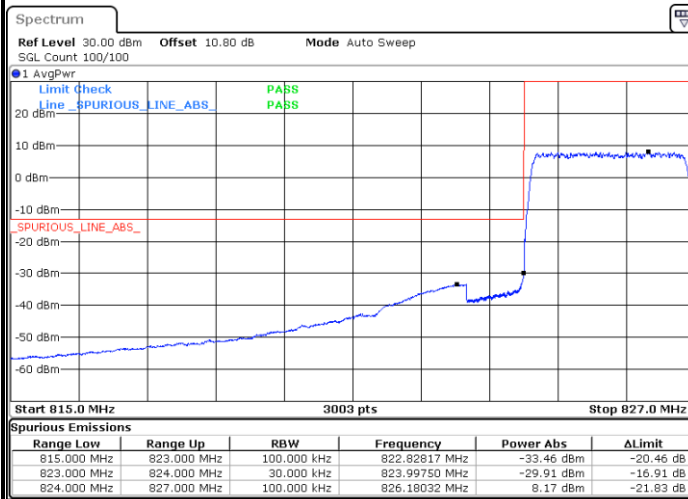
Date: 5.OCT.2019 00:52:48

Highest Band Edge / 1 RB



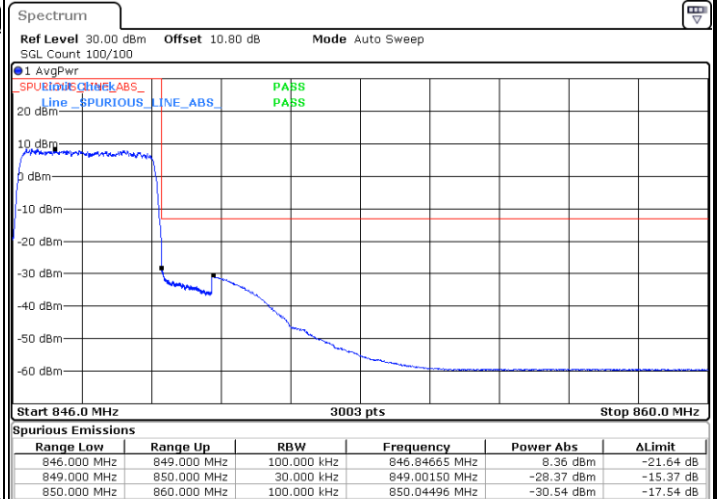
Date: 5.OCT.2019 01:03:47

Lowest Band Edge / Full RB



Date: 5.OCT.2019 00:56:10

Highest Band Edge / Full RB

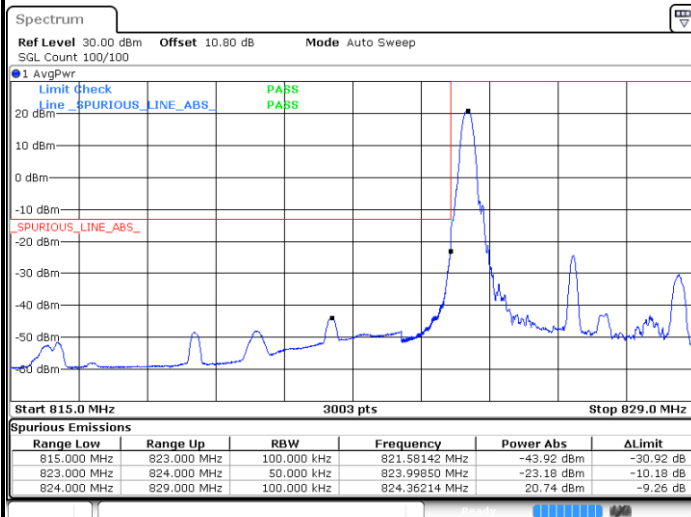


Date: 5.OCT.2019 01:07:09

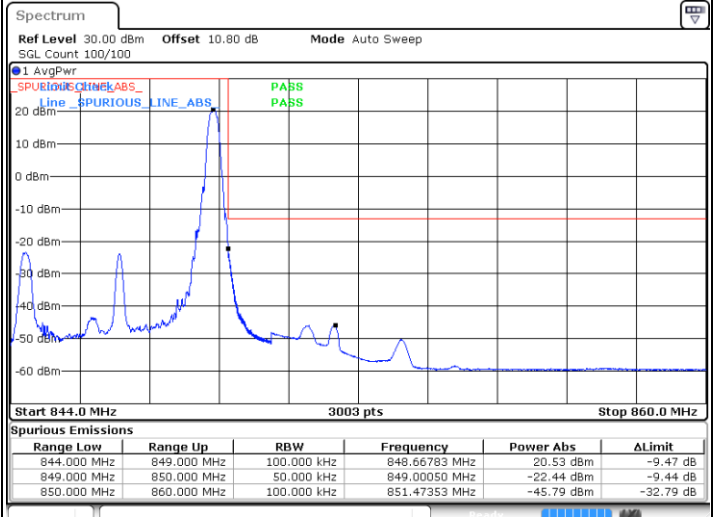


LTE Band 5 / 5MHz / QPSK

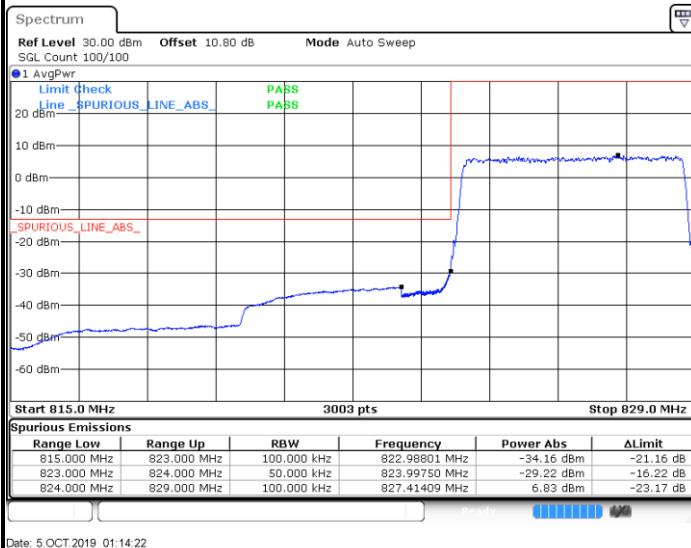
Lowest Band Edge / 1 RB



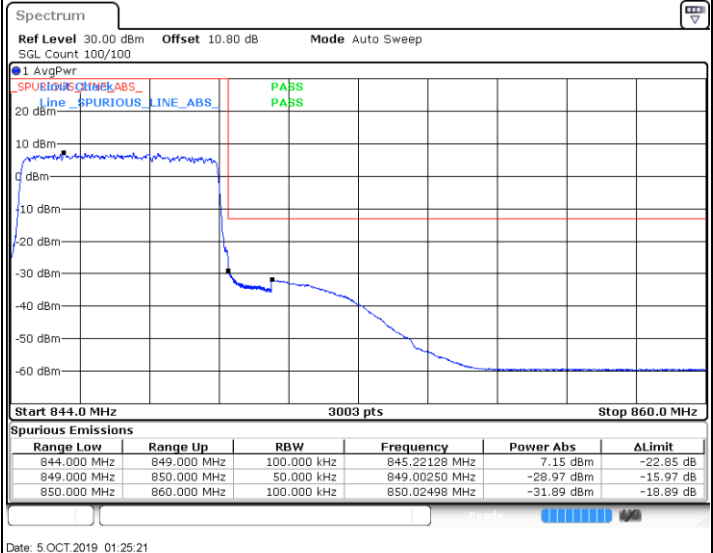
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



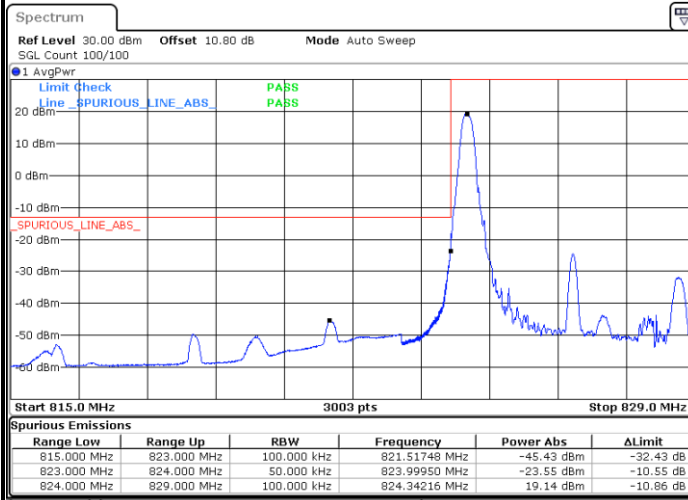
Highest Band Edge / Full RB



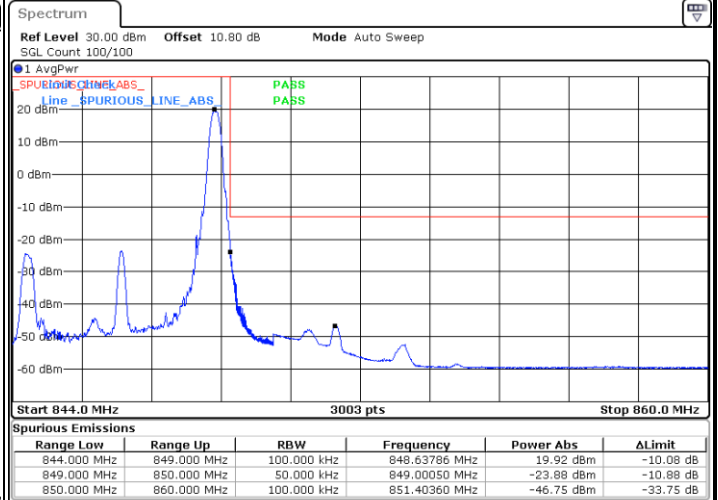


LTE Band 5 / 5MHz / 16QAM

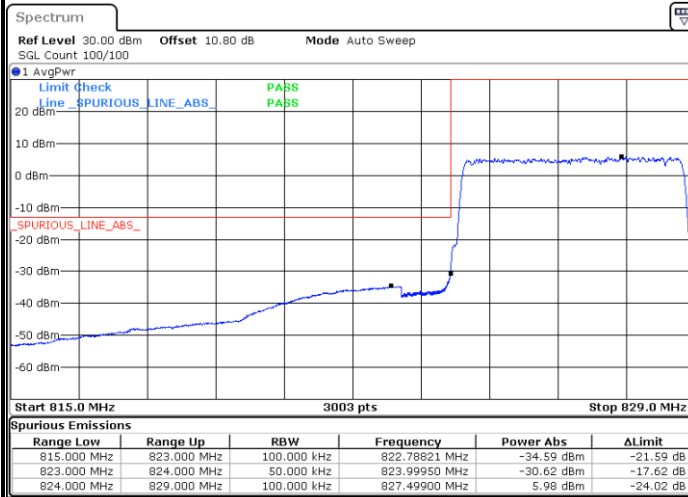
Lowest Band Edge / 1RB



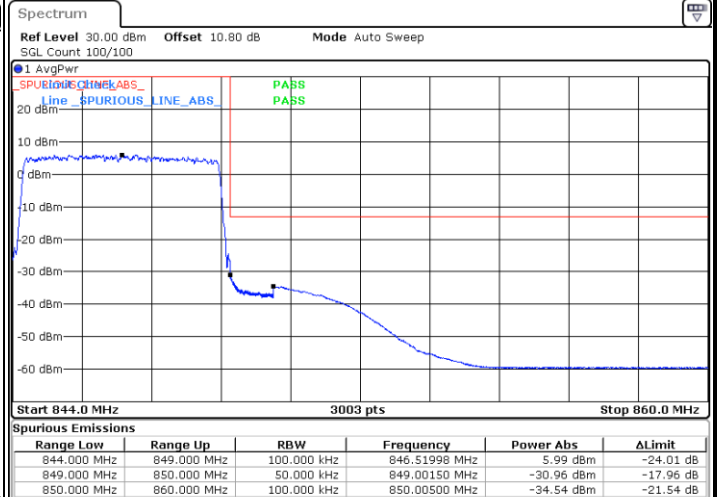
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



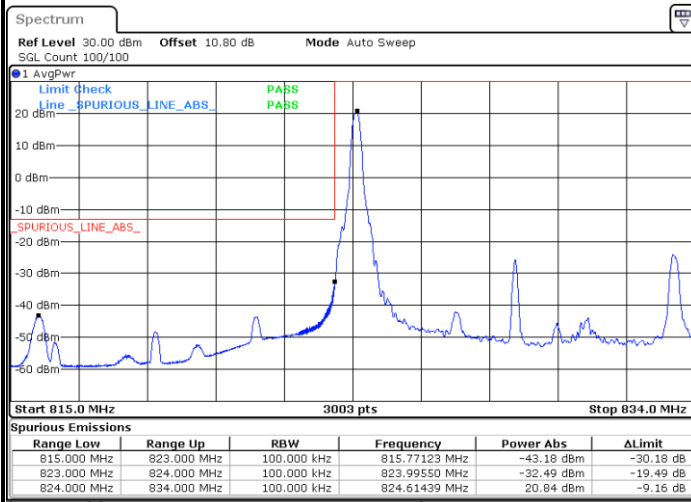
Highest Band Edge / Full RB



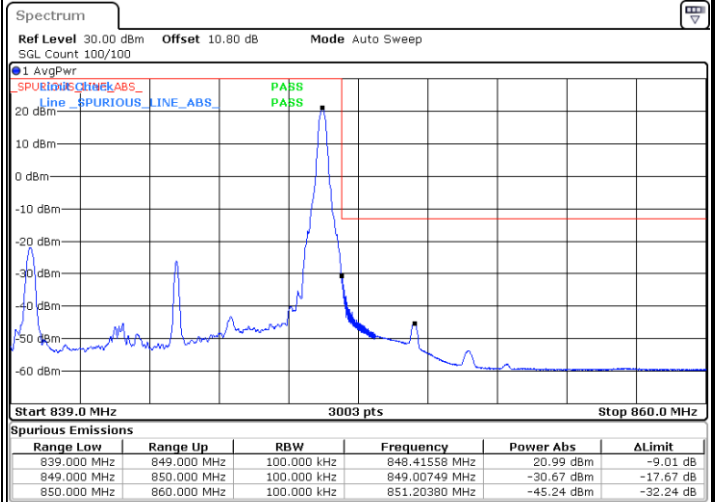


LTE Band 5 / 10MHz / QPSK

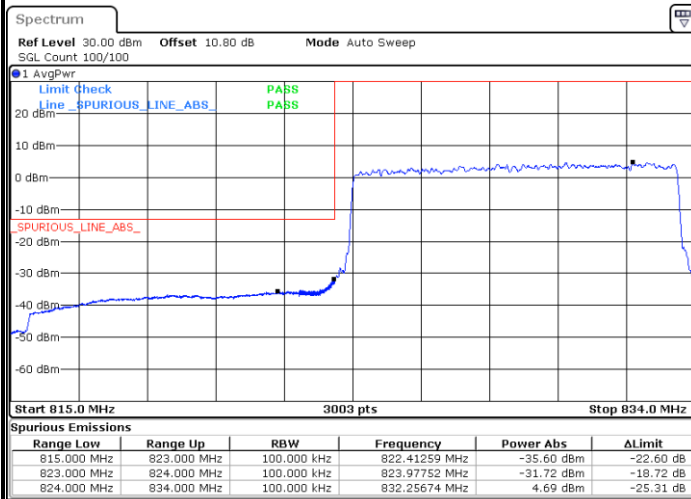
Lowest Band Edge / 1 RB



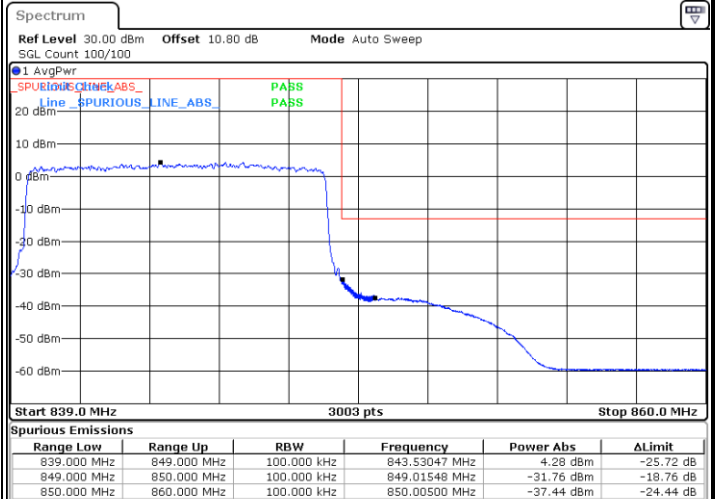
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



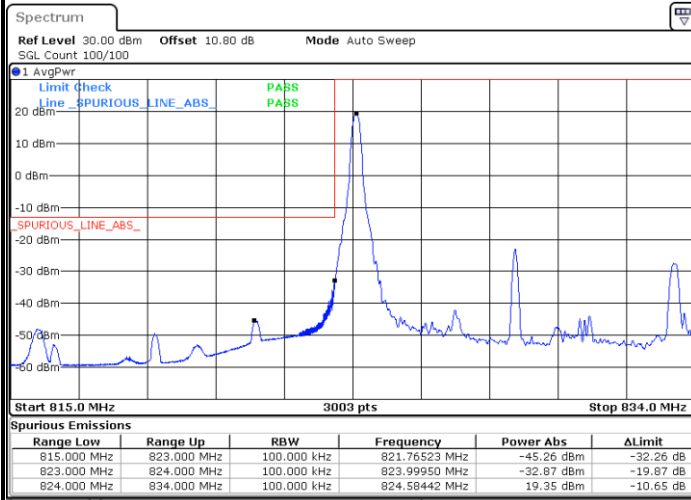
Highest Band Edge / Full RB



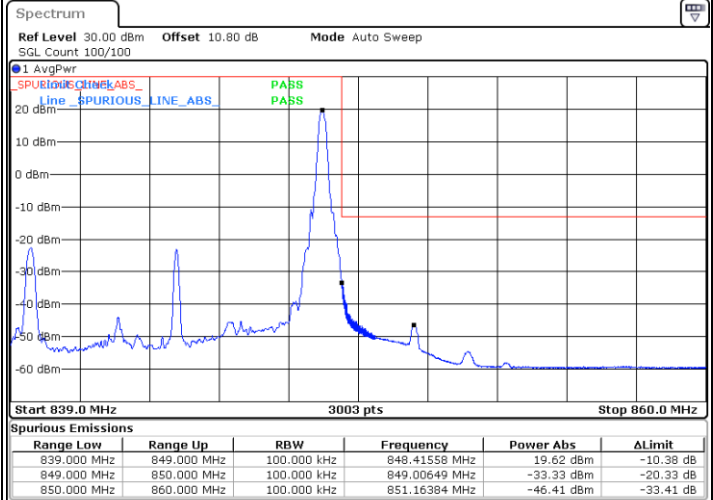


LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

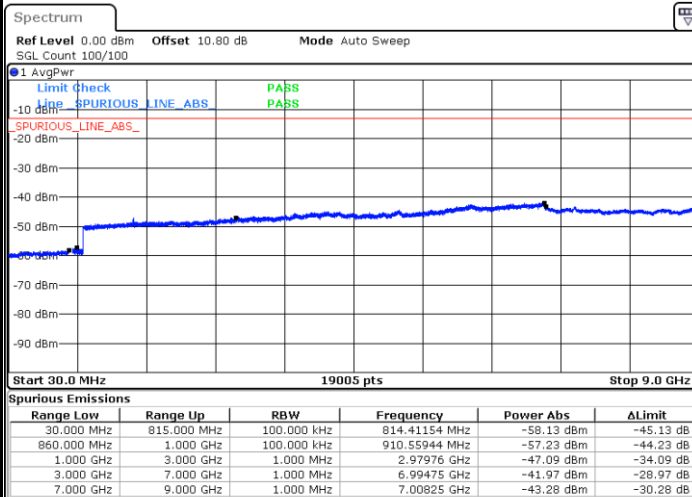


Highest Band Edge / 1 RB

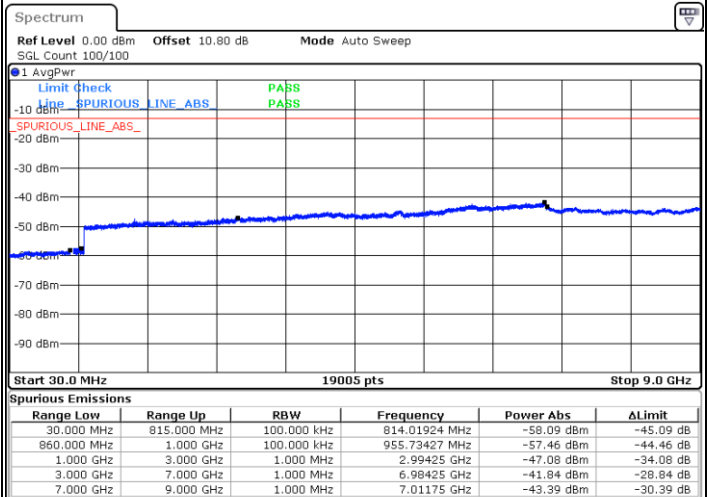


Lowest Band Edge / Full RB

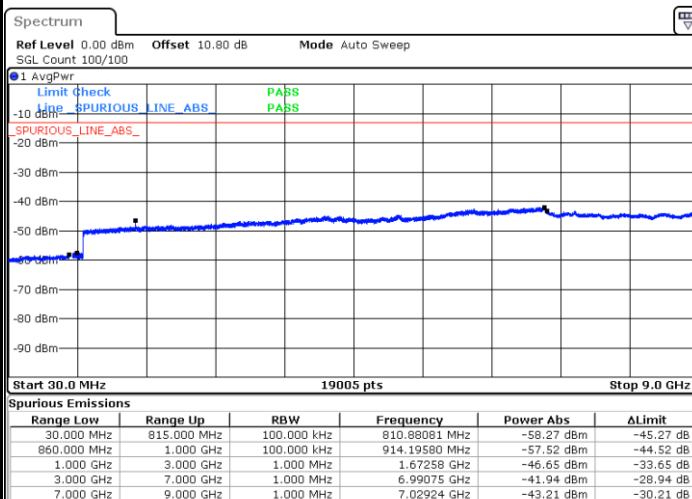
Highest Band Edge / Full RB

**Conducted Spurious Emission****LTE Band 5 / 1.4MHz****Lowest Channel / QPSK**

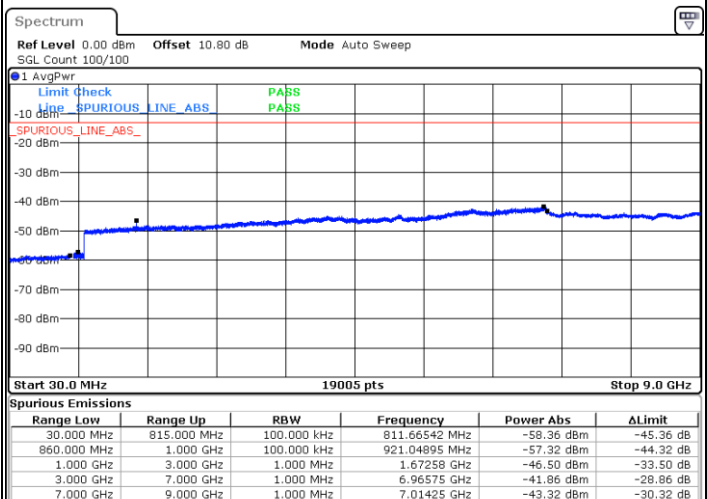
Date: 7.OCT.2019 20:00:50

Lowest Channel / 16QAM

Date: 7.OCT.2019 20:01:50

Middle Channel / QPSK

Date: 7.OCT.2019 20:03:33

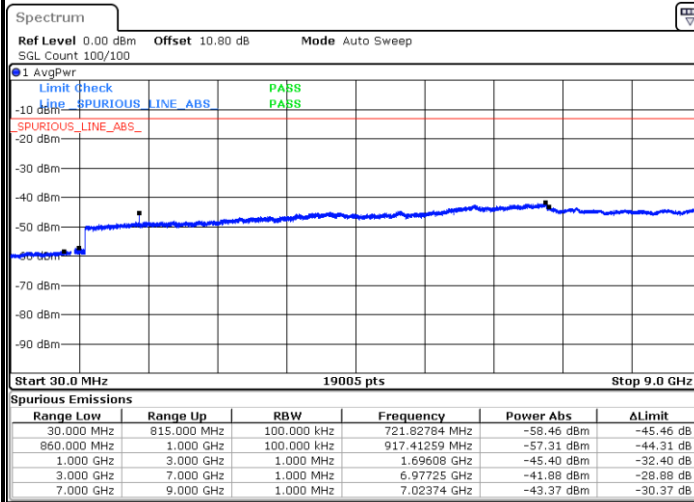
Middle Channel / 16QAM

Date: 7.OCT.2019 20:04:32



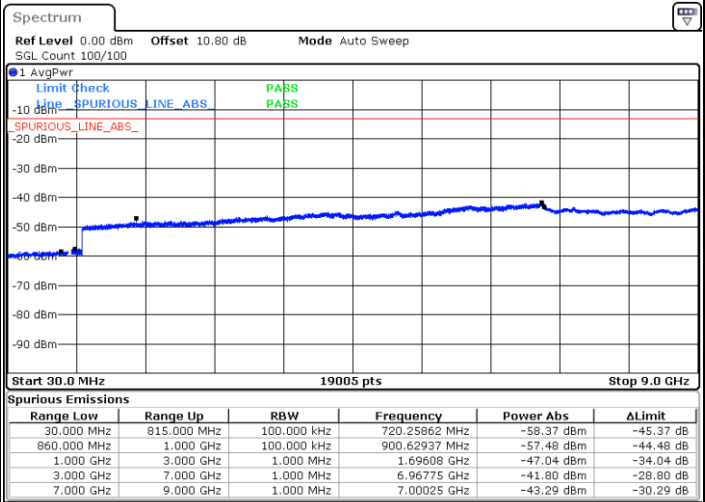
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



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

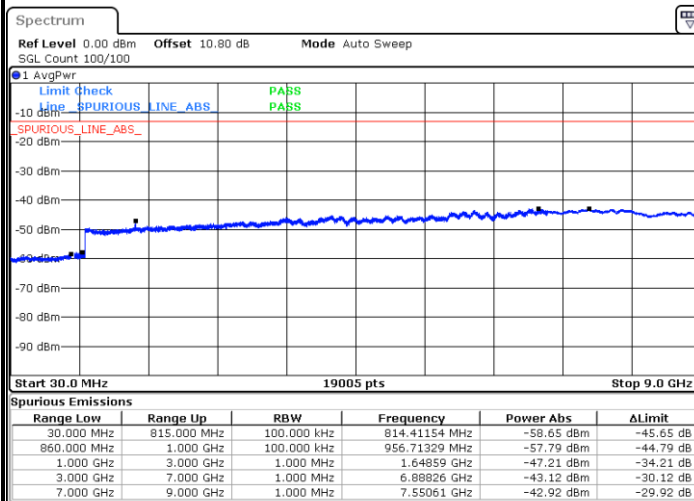
Highest Channel / 16QAM



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

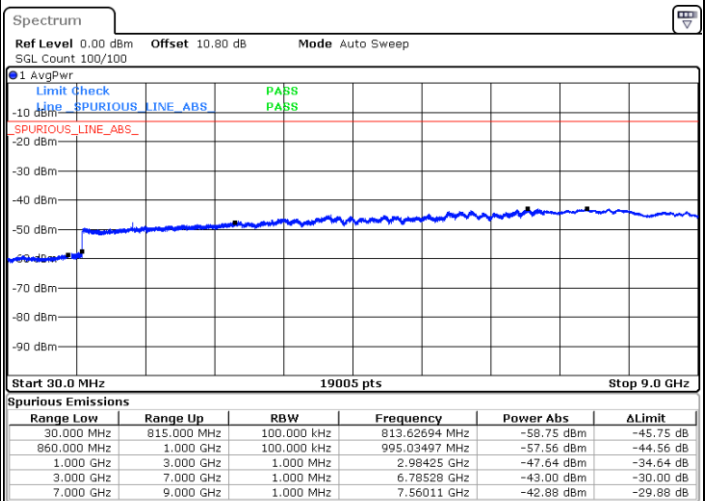
LTE Band 5 / 3MHz

Lowest Channel / QPSK



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

Lowest Channel / 16QAM

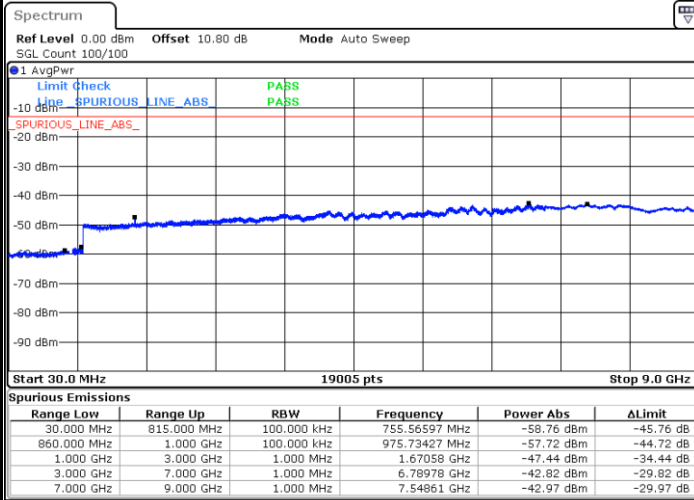


Date: 5.OCT.2019 00:57:32



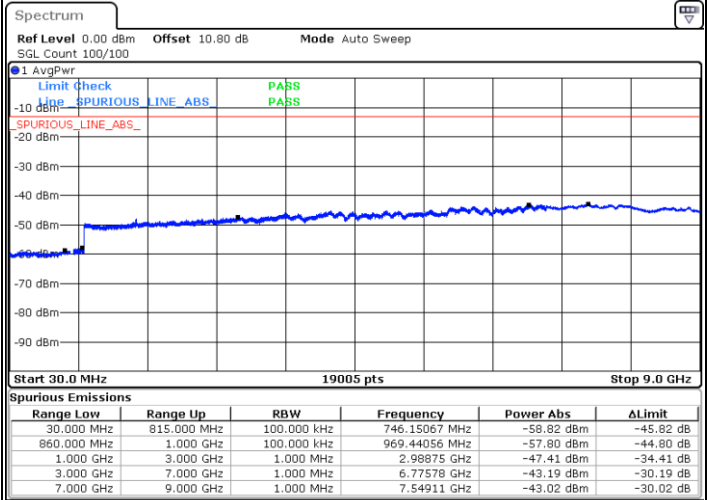
LTE Band 5 / 3MHz

Middle Channel / QPSK



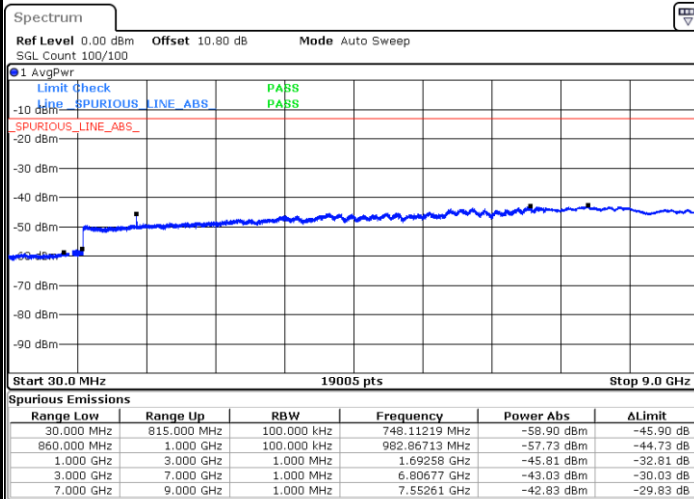
Date: 5.OCT.2019 00:58:58

Middle Channel / 16QAM



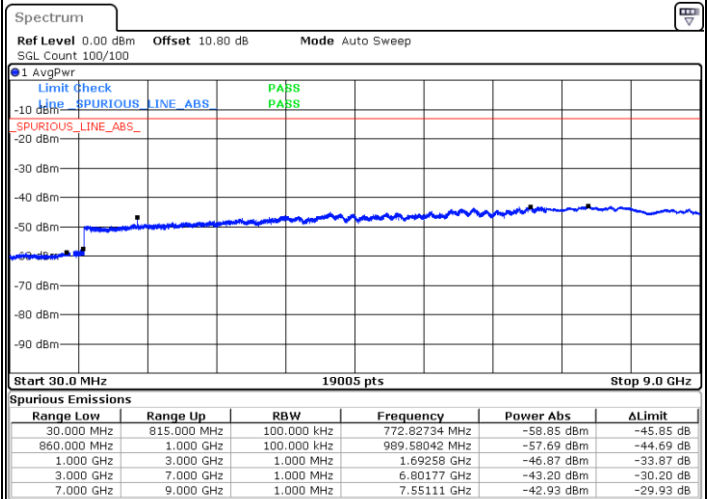
Date: 5.OCT.2019 00:59:38

Highest Channel / QPSK



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

Highest Channel / 16QAM

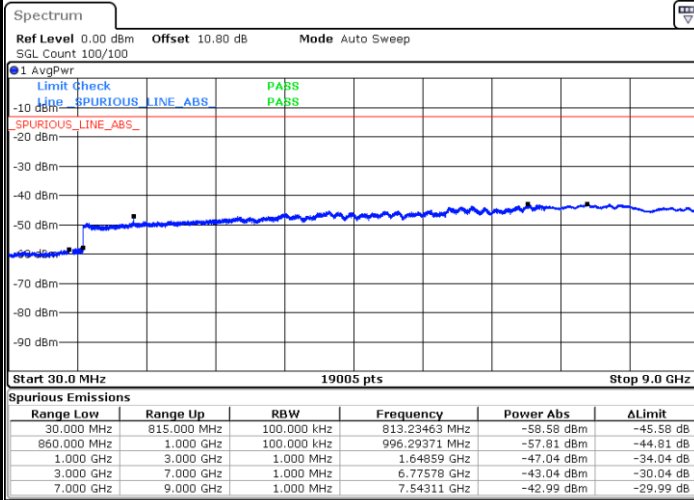


Date: 5.OCT.2019 01:08:32



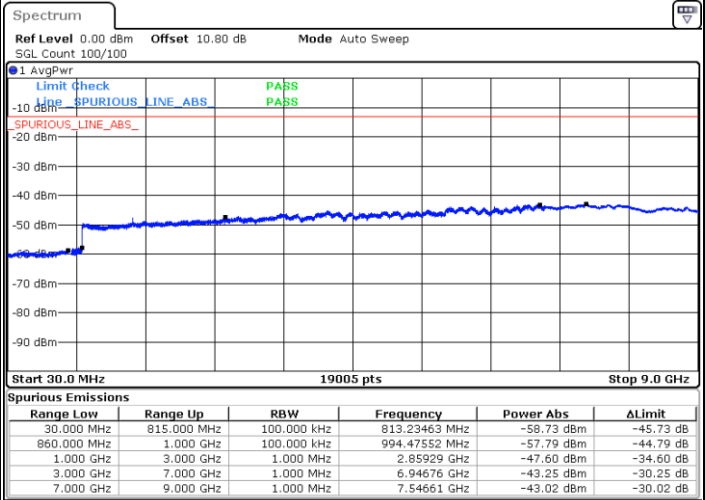
LTE Band 5 / 5MHz

Lowest Channel / QPSK



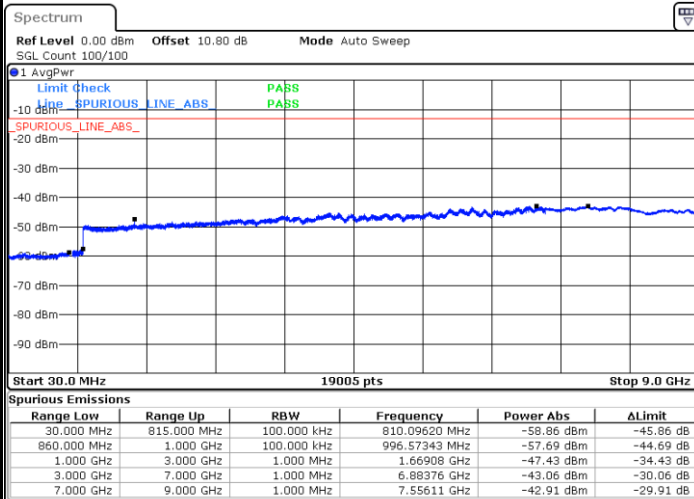
Date: 5.OCT.2019 01:16:44

Lowest Channel / 16QAM



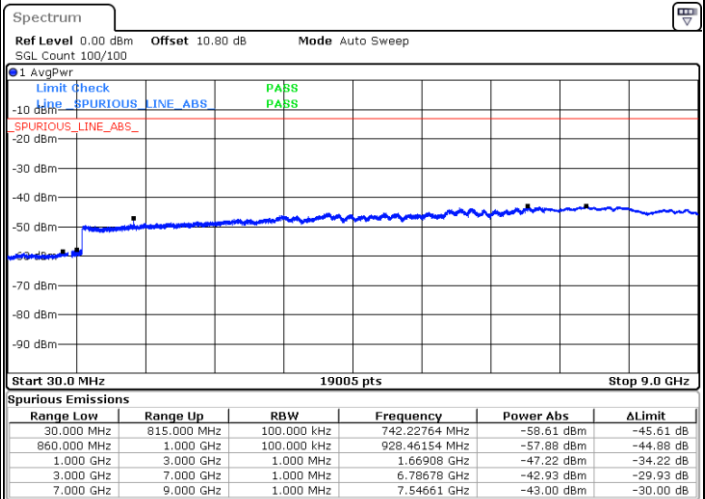
Date: 5.OCT.2019 01:17:25

Middle Channel / QPSK



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

Middle Channel / 16QAM

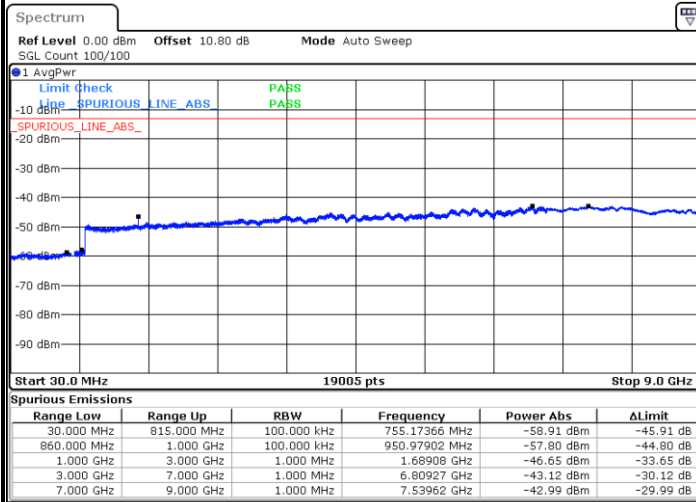


Date: 5.OCT.2019 01:19:31



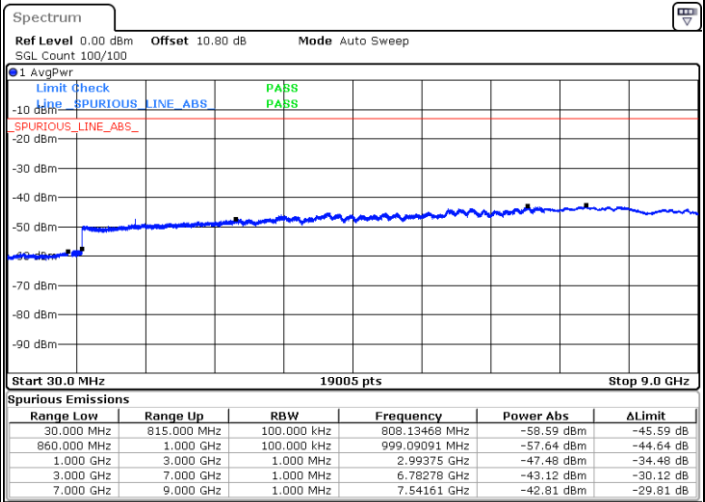
LTE Band 5 / 5MHz

Highest Channel / QPSK



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

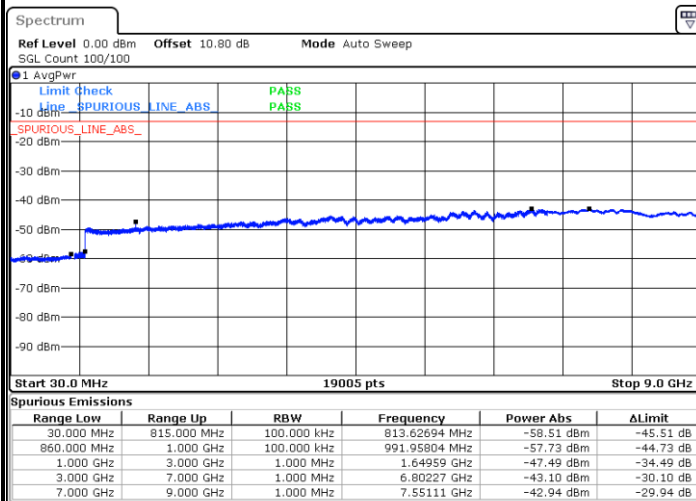
Highest Channel / 16QAM



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

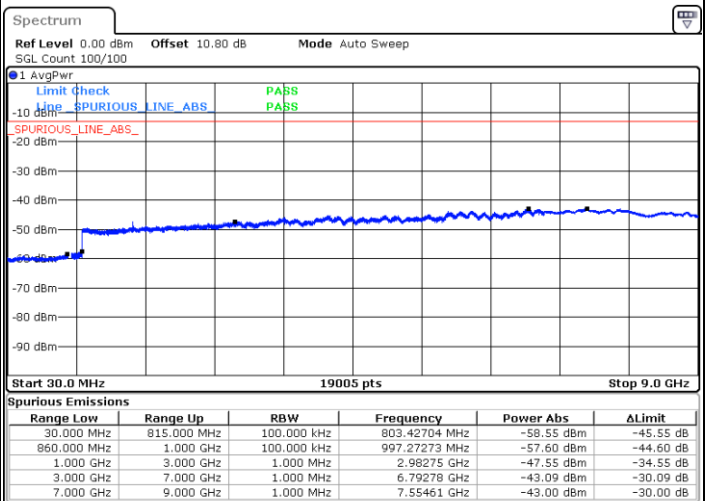
LTE Band 5 / 10MHz

Lowest Channel / QPSK



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

Lowest Channel / 16QAM

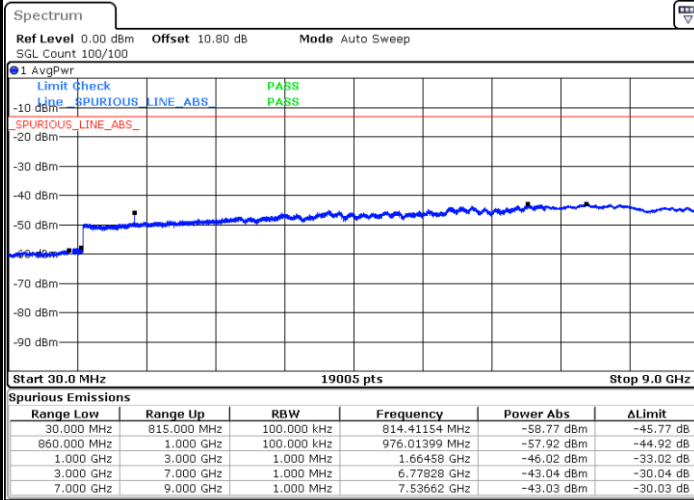


Date: 5.OCT.2019 01:35:12



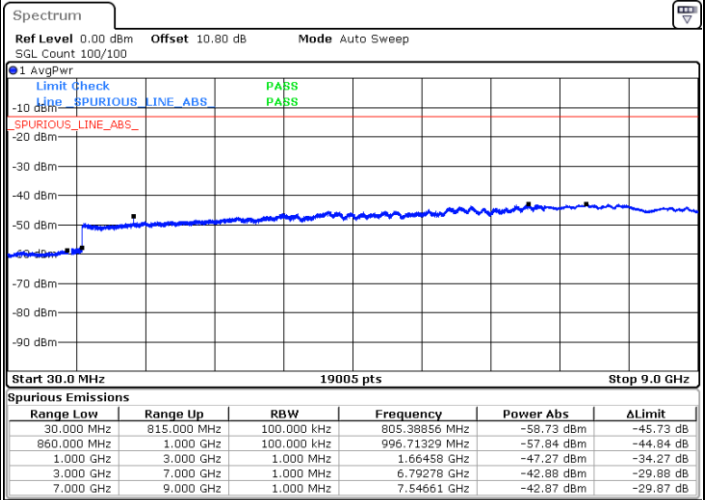
LTE Band 5 / 10MHz

Middle Channel / QPSK



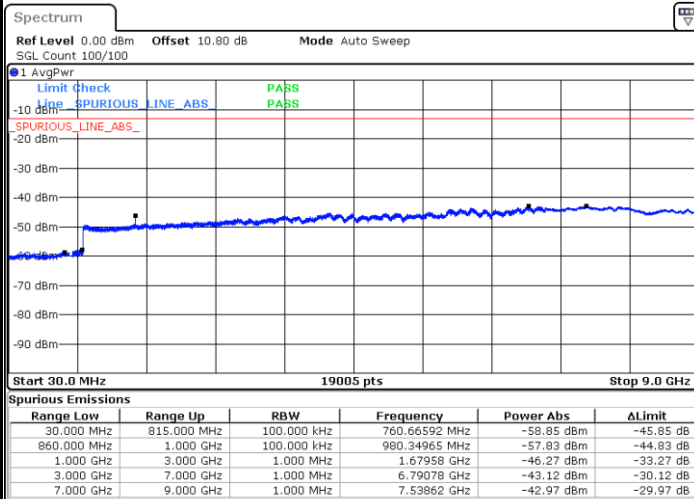
Date: 5.OCT.2019 01:36:16

Middle Channel / 16QAM



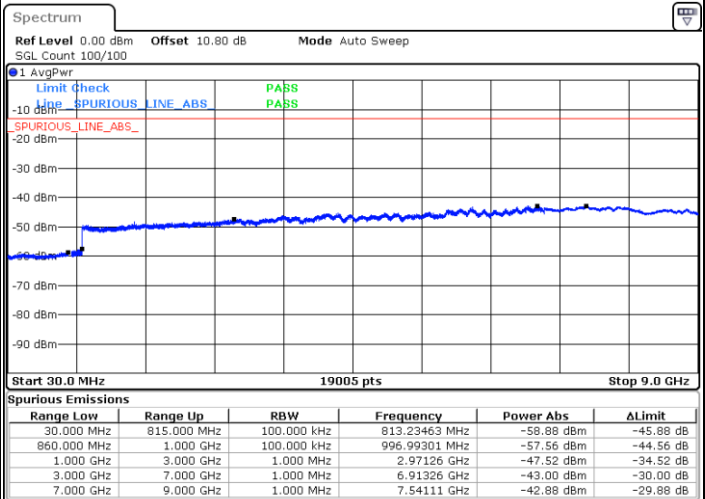
Date: 5.OCT.2019 01:36:56

Highest Channel / QPSK



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

Highest Channel / 16QAM



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	

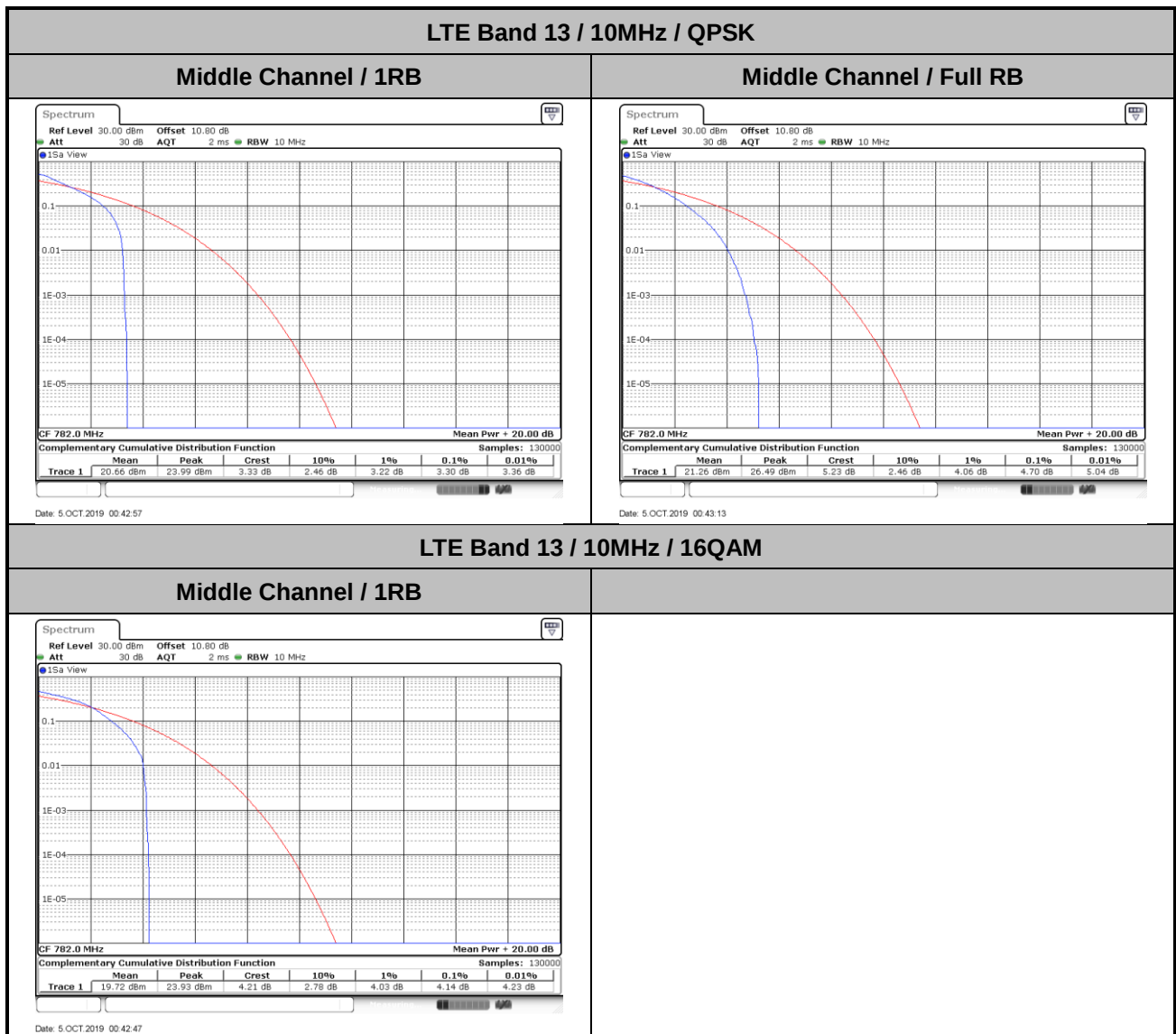
Note:

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				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.30	4.70	4.14	-	
Highest CH	-	-	-	-	





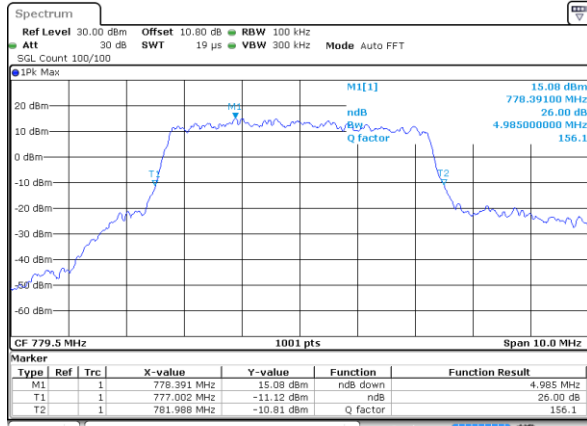
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
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	-	-	-	-	-	-



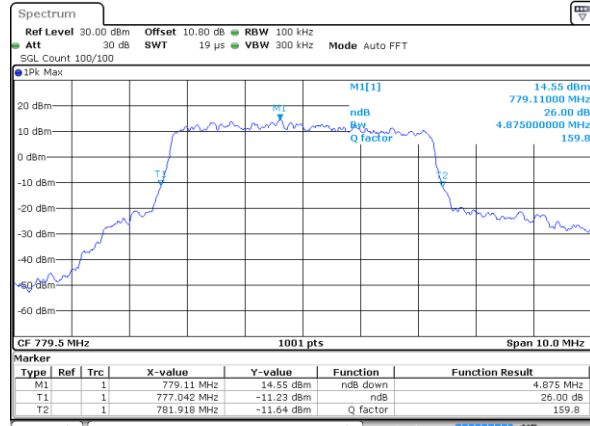
LTE Band 13

Lowest Channel / 5MHz / QPSK



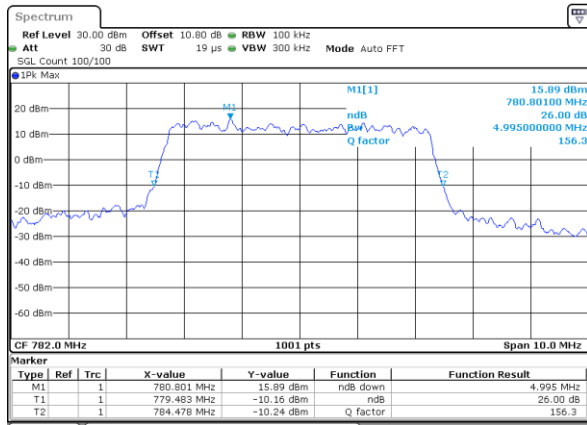
Date: 5 OCT 2019 00:05:51

Lowest Channel / 5MHz / 16QAM



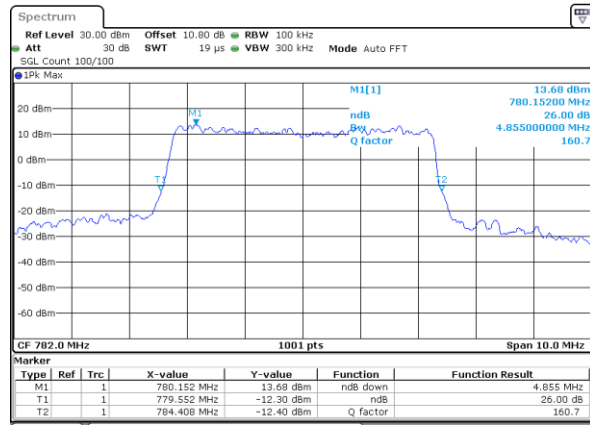
Date: 5 OCT 2019 00:05:39

Middle Channel / 5MHz / QPSK



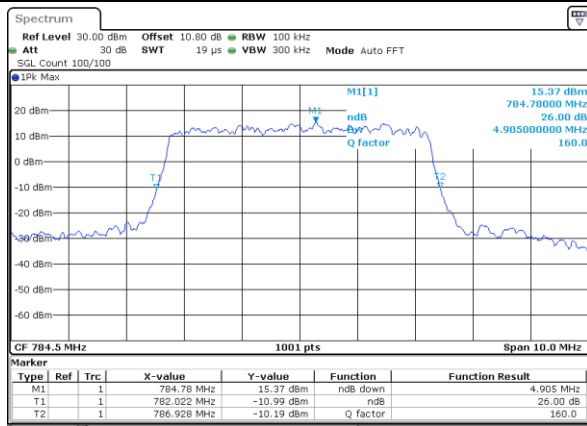
Date: 5 OCT 2019 00:15:28

Middle Channel / 5MHz / 16QAM



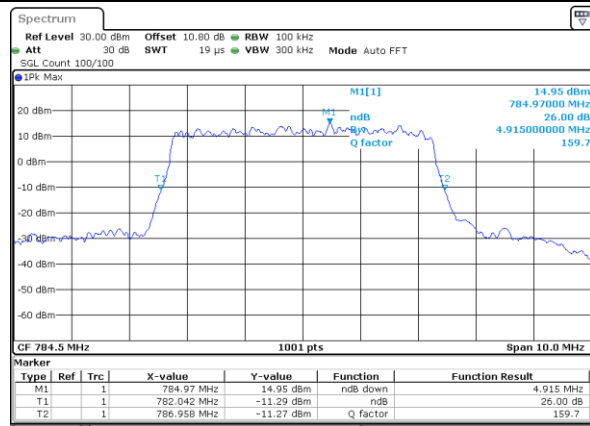
Date: 5 OCT 2019 00:15:39

Highest Channel / 5MHz / QPSK



Date: 5 OCT 2019 00:16:50

Highest Channel / 5MHz / 16QAM

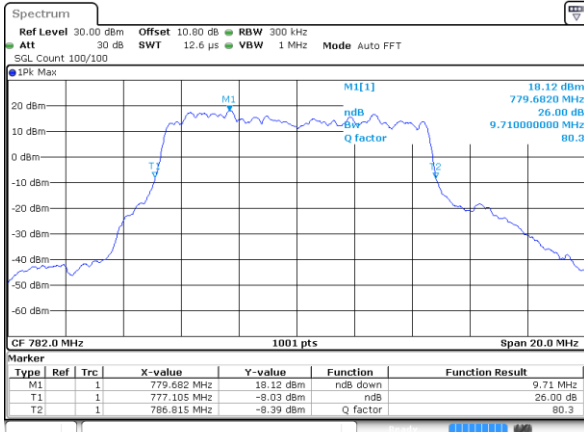


Date: 5 OCT 2019 00:16:38



LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 5 OCT 2019 00:25:18



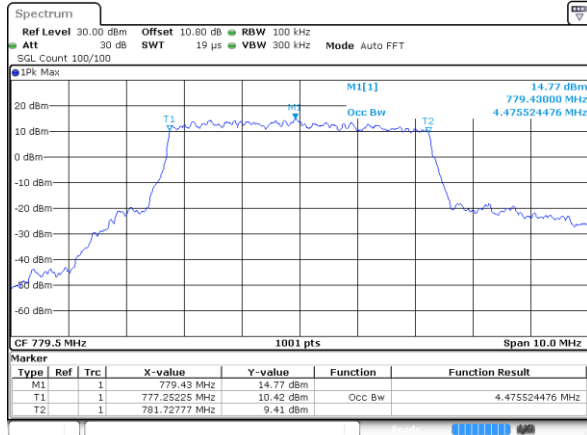
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
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	-	-	-	-	-	-

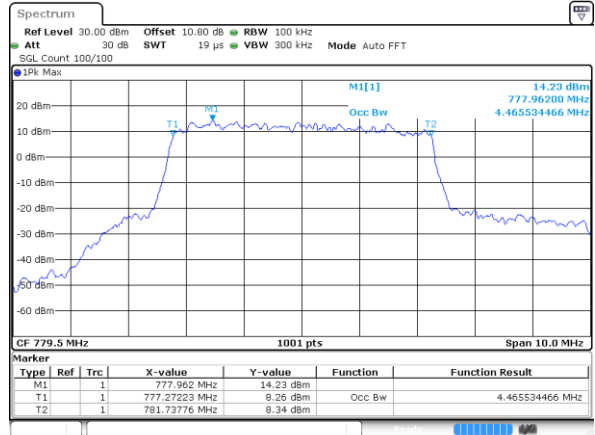


LTE Band 13

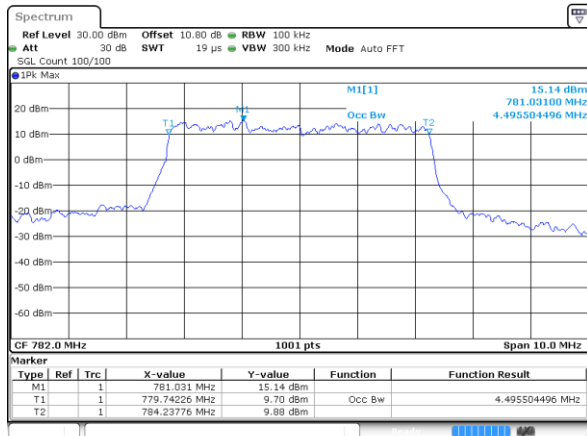
Lowest Channel / 5MHz / QPSK



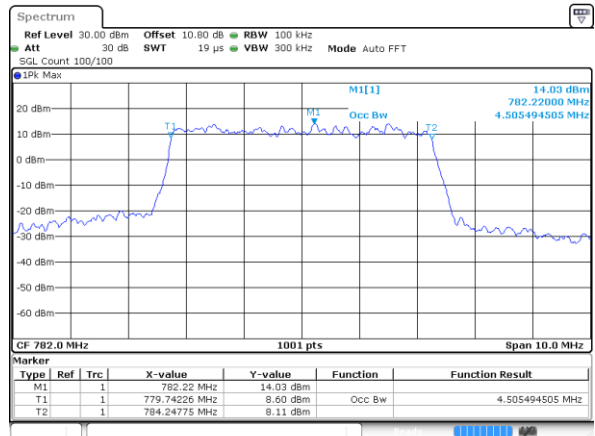
Lowest Channel / 5MHz / 16QAM



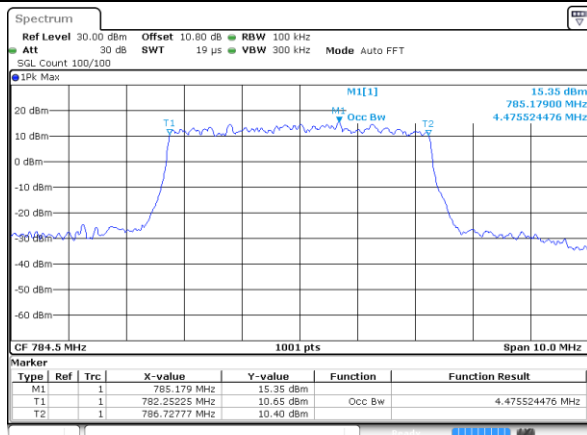
Middle Channel / 5MHz / QPSK



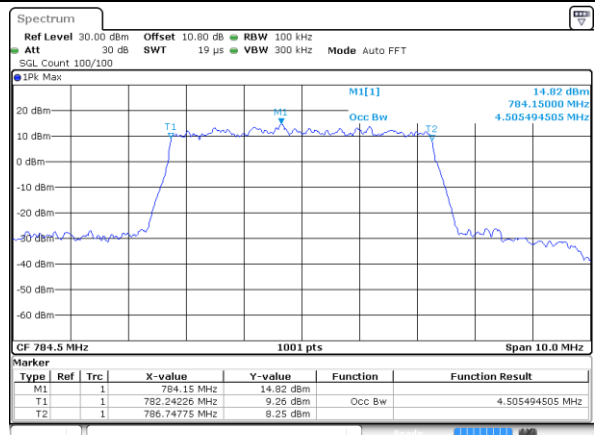
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



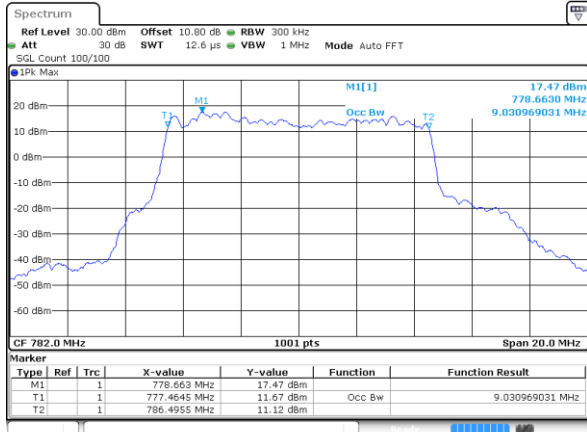
Highest Channel / 5MHz / 16QAM



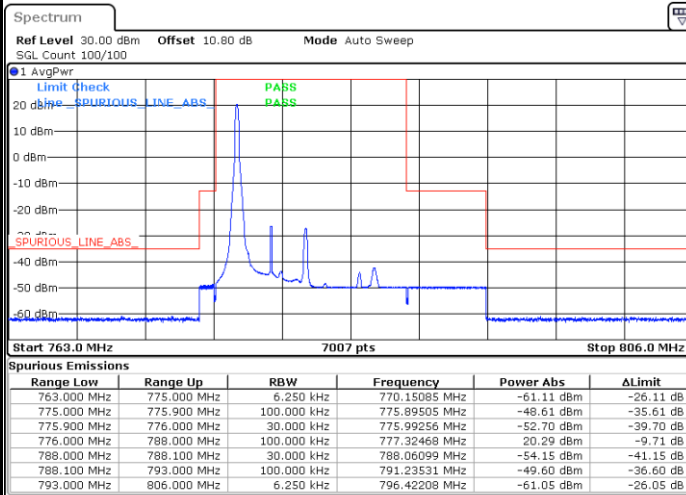
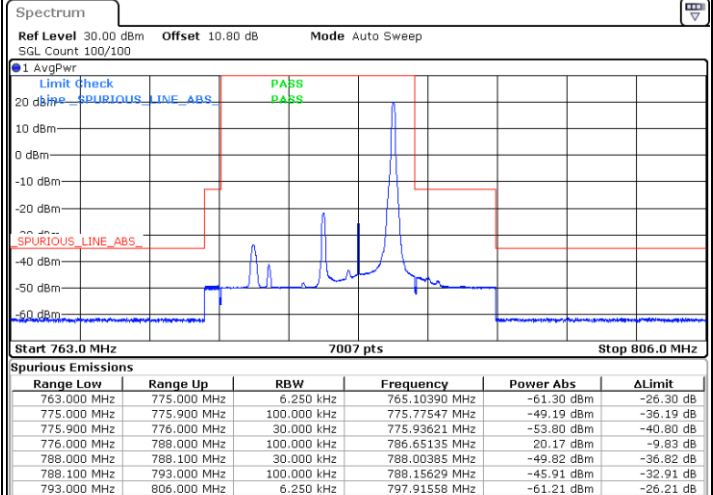
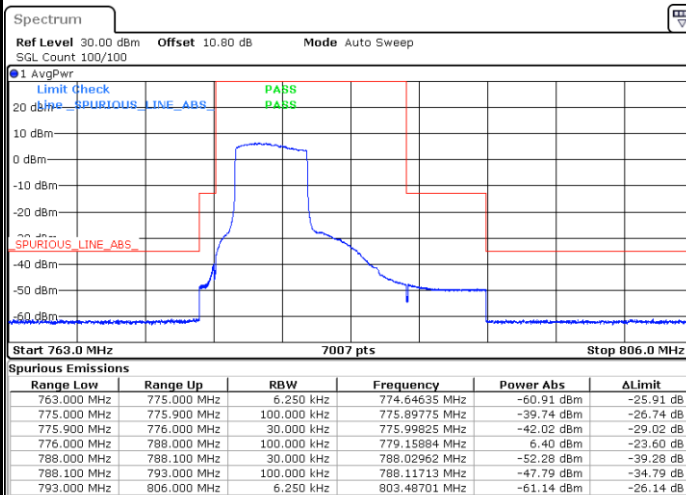
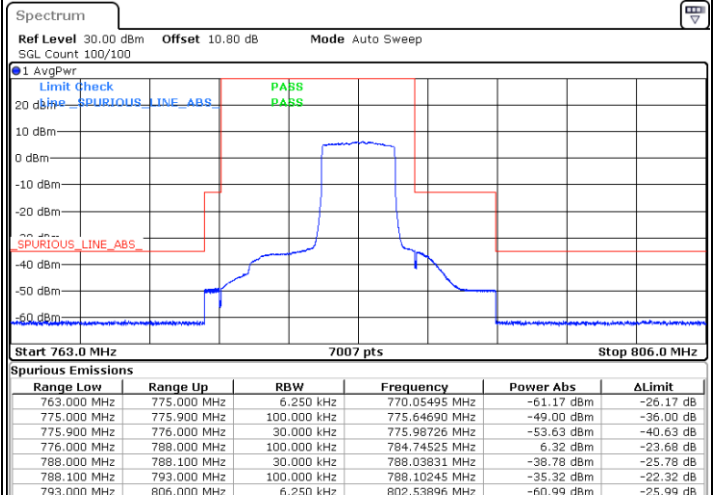


LTE Band 13

Middle Channel / 10MHz / QPSK



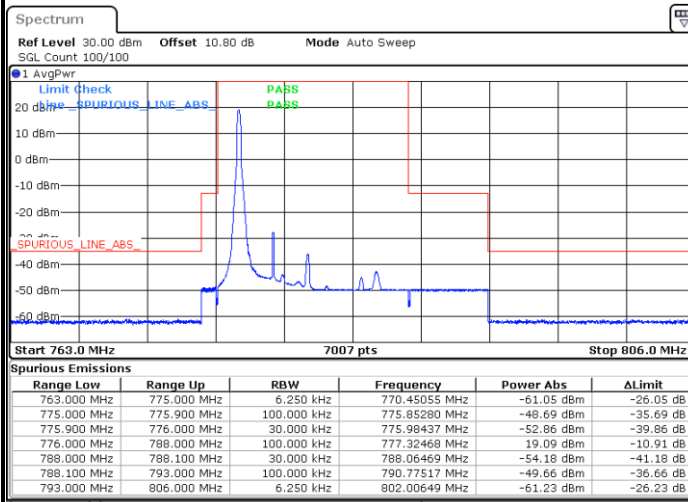
Date: 5 OCT 2019 00:25:06

**Conducted Band Edge****LTE Band 13 / 5MHz / QPSK****Lowest Band Edge / 1 RB****Highest Band Edge / 1 RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

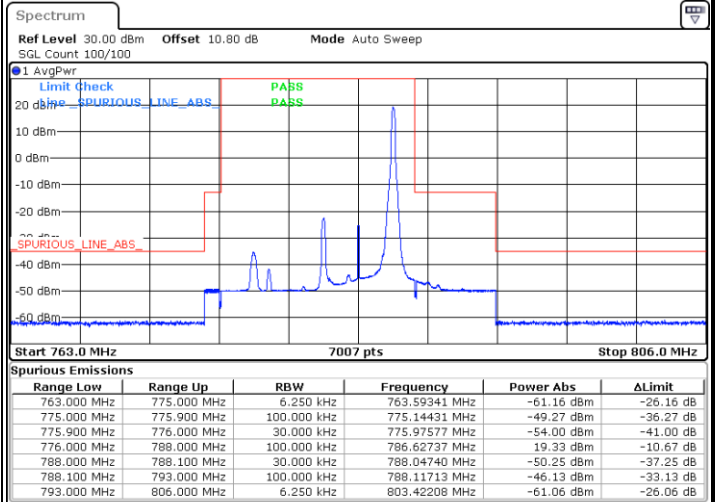


LTE Band 13 / 5MHz / 16QAM

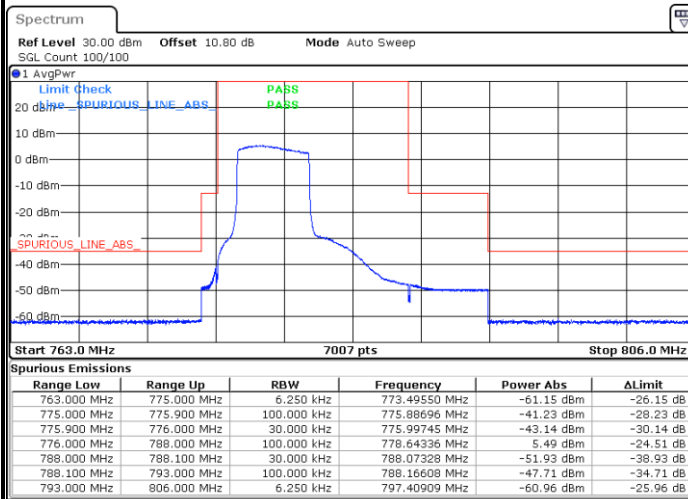
Lowest Band Edge / 1 RB



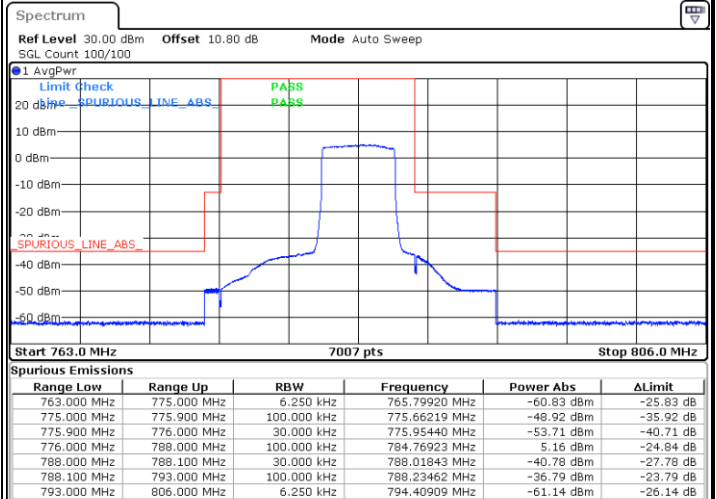
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



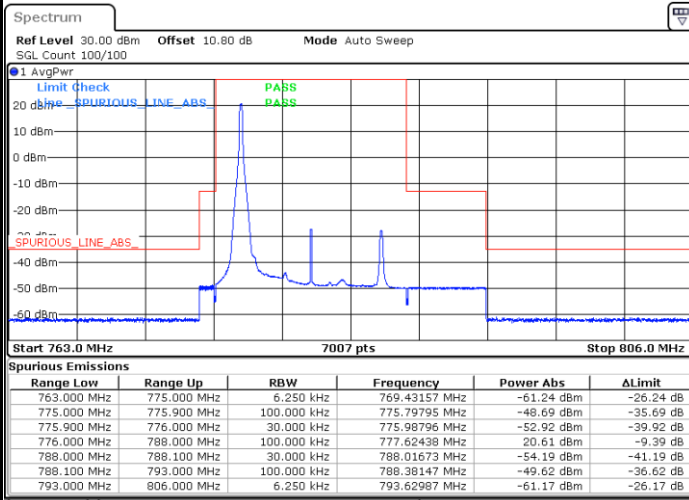
Highest Band Edge / Full RB





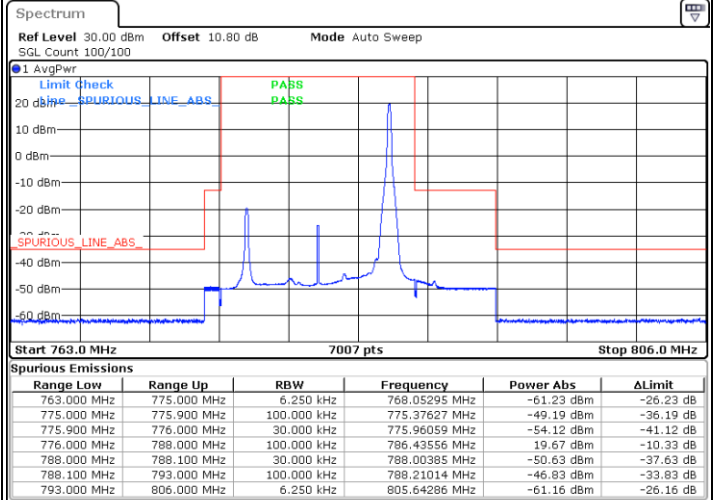
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



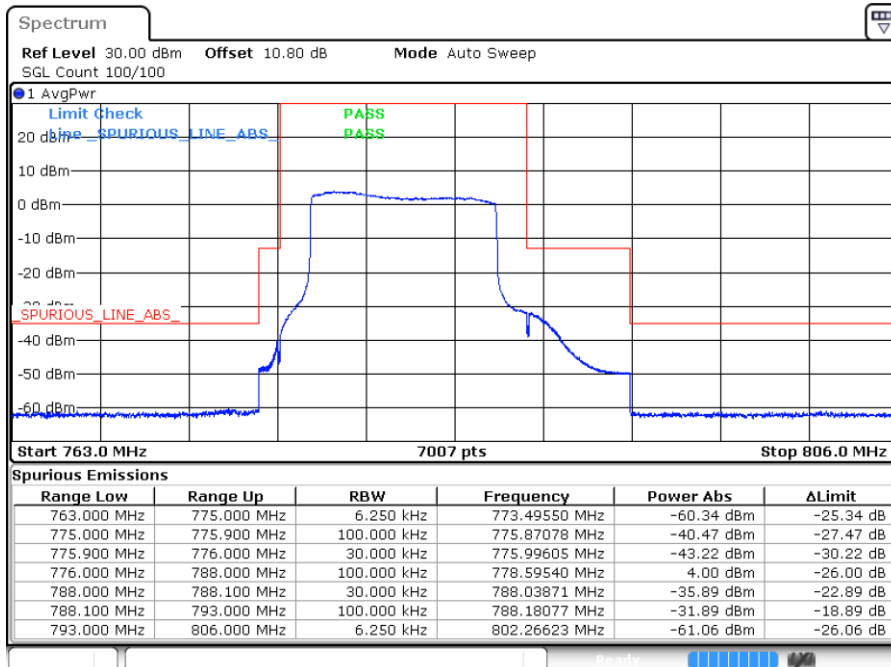
Date: 5.OCT.2019 00:30:18

Highest Band Edge / 1 RB



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

Band Edge / Full RB



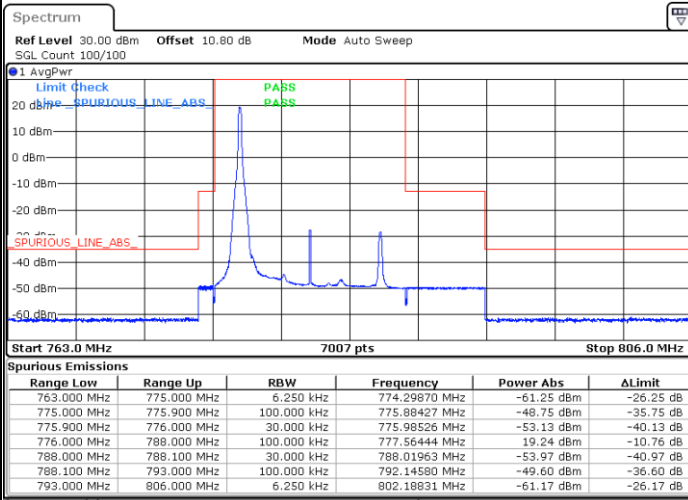
Date: 5.OCT.2019 00:26:57



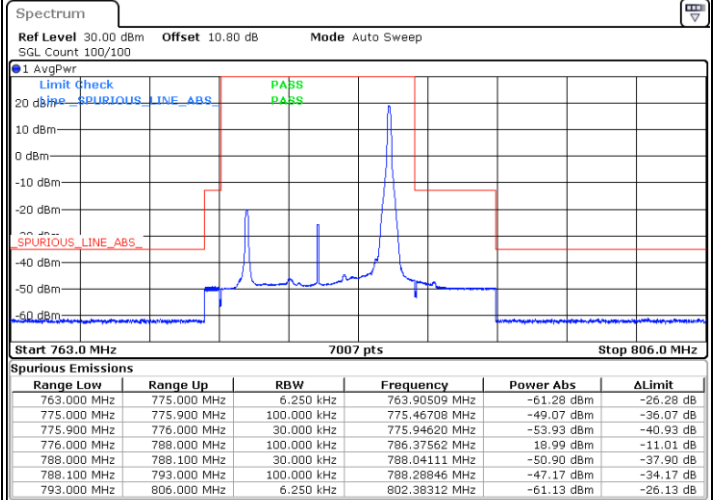
LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 5.OCT.2019 00:28:38

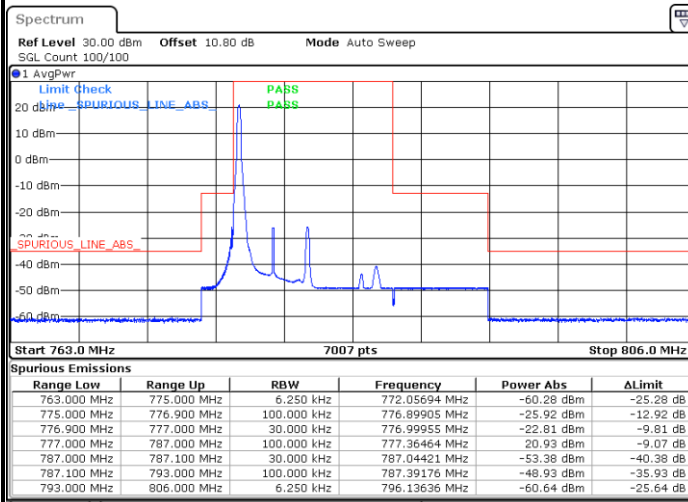


Date: 5.OCT.2019 00:33:38



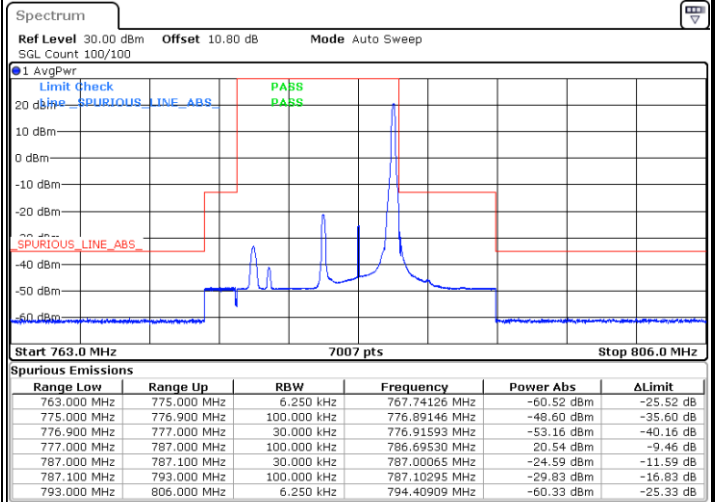
IC LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



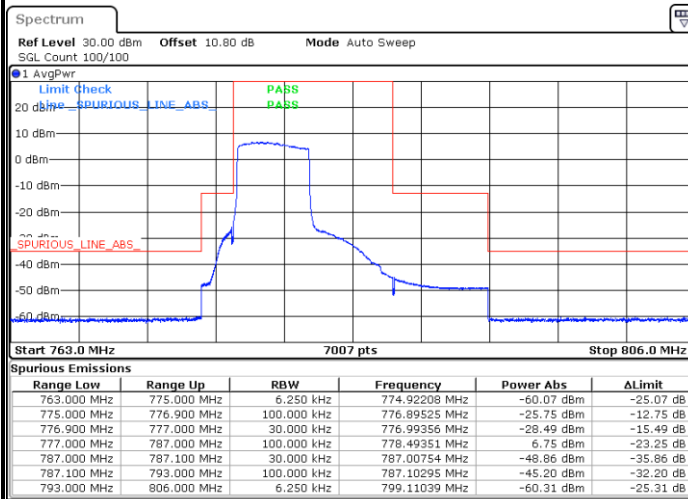
Date: 7.OCT.2019 21:07:31

Highest Band Edge / 1 RB



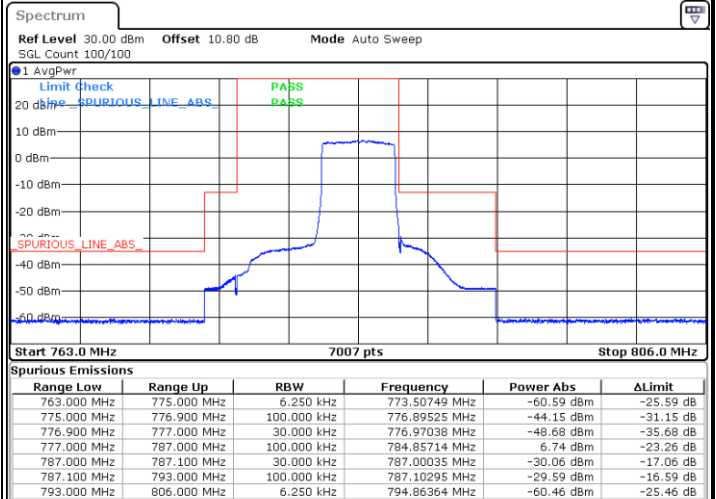
Date: 7.OCT.2019 21:14:07

Lowest Band Edge / Full RB



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

Highest Band Edge / Full RB

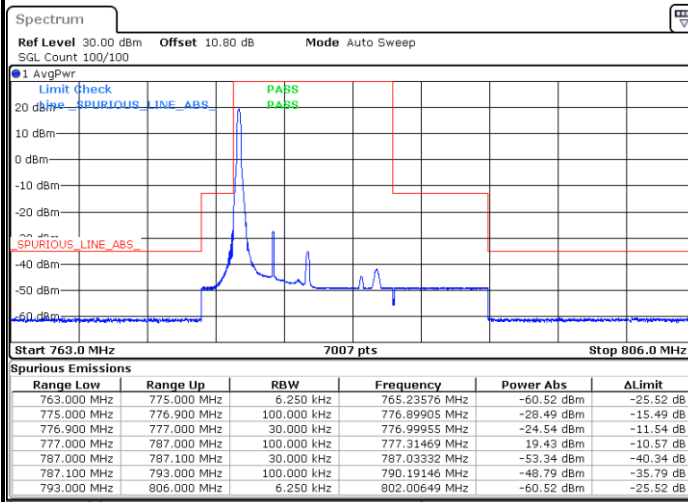


Date: 7.OCT.2019 21:09:10



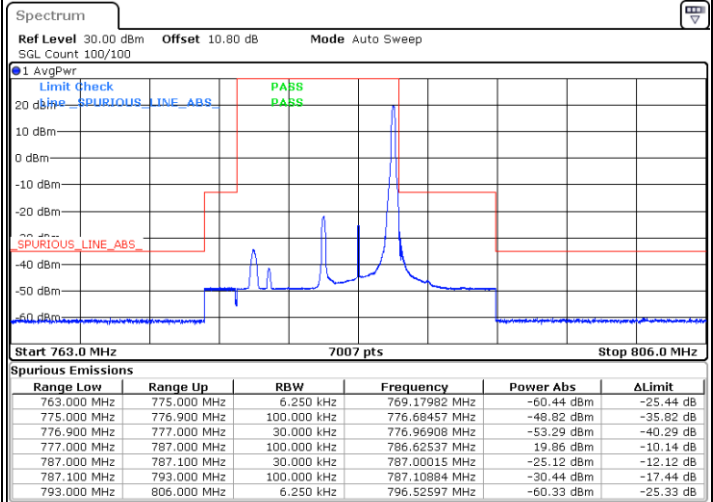
IC LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



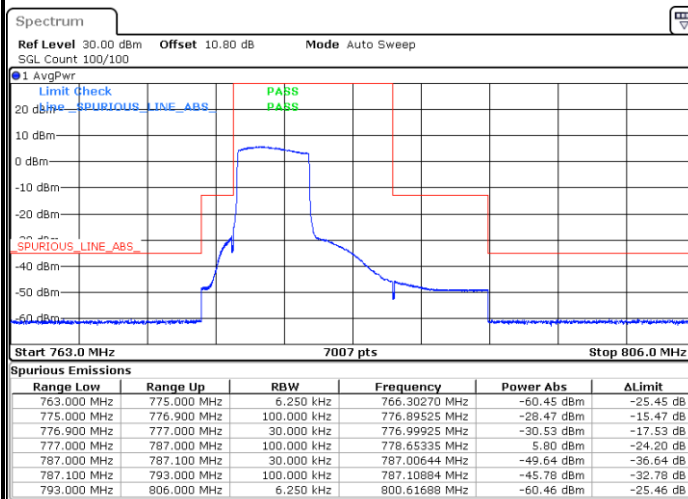
Date: 7.OCT.2019 21:05:52

Highest Band Edge / 1 RB



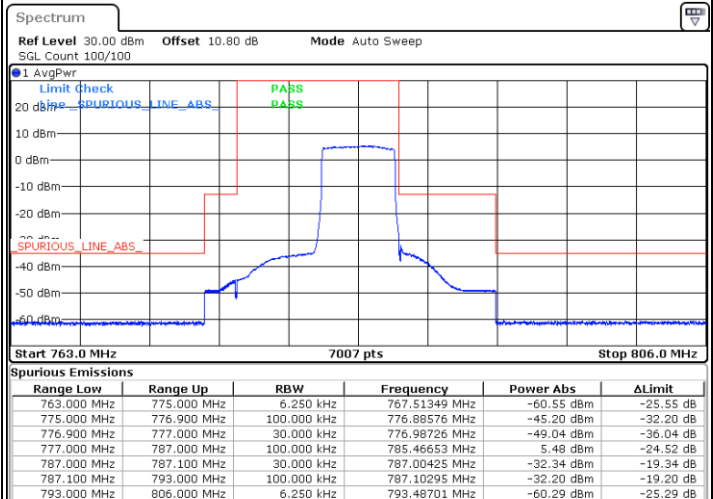
Date: 7.OCT.2019 21:12:28

Lowest Band Edge / Full RB



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

Highest Band Edge / Full RB

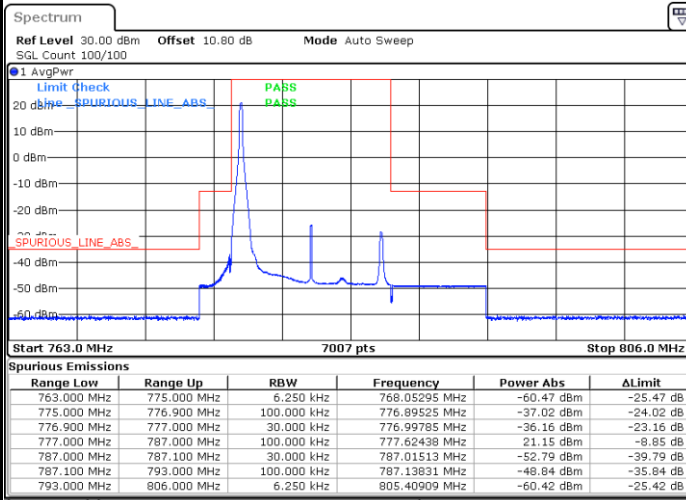


Date: 7.OCT.2019 21:10:49



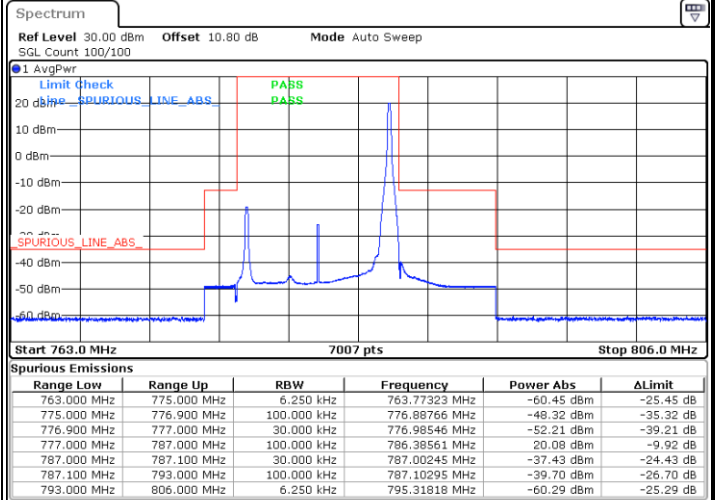
IC LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB



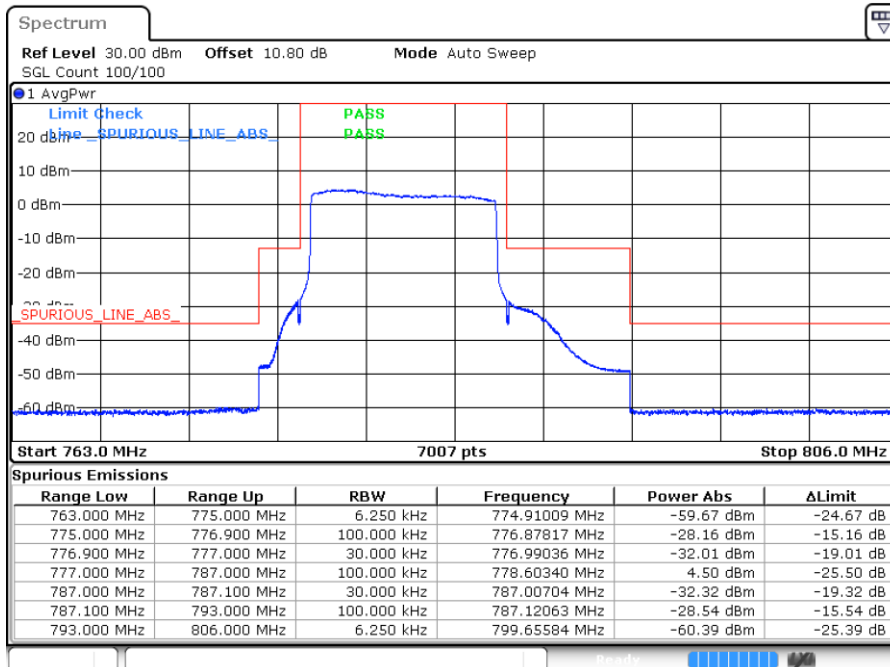
Date: 7.OCT.2019 21:19:03

Highest Band Edge / 1 RB



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

Band Edge / Full RB



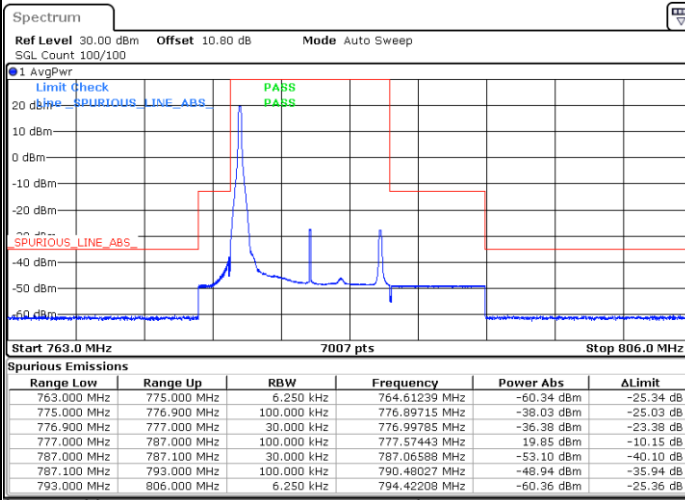
Date: 7.OCT.2019 21:15:45



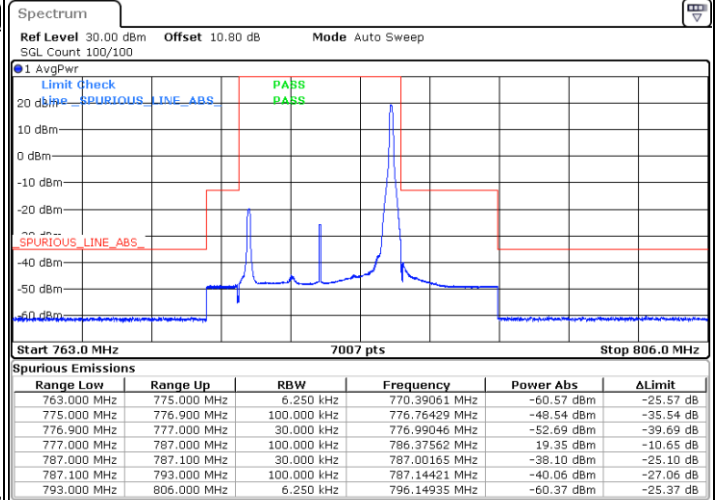
IC LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



Date: 7.OCT.2019 21:17:24



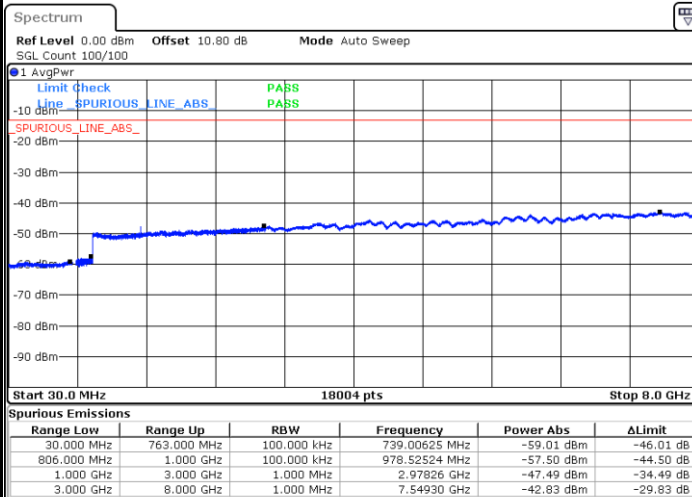
Date: 7.OCT.2019 21:22:21



Conducted Spurious Emission

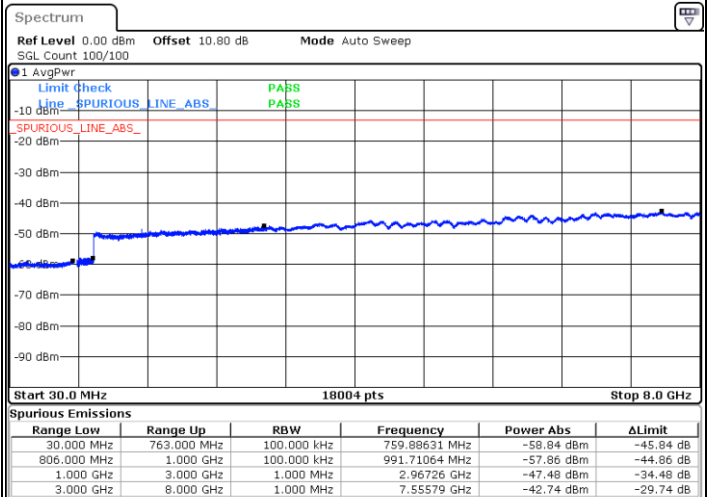
LTE Band 13 / 5MHz

Lowest Channel / QPSK



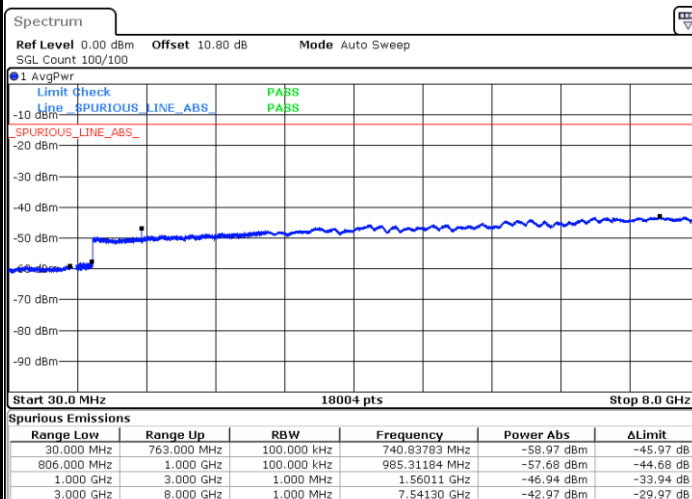
Date: 5.OCT.2019 00:13:16

Lowest Channel / 16QAM



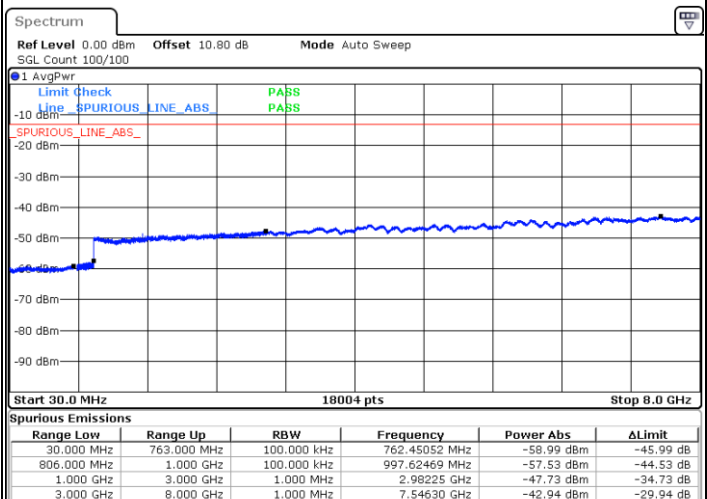
Date: 5.OCT.2019 00:13:56

Middle Channel / QPSK



Date: 5.OCT.2019 00:15:17

Middle Channel / 16QAM

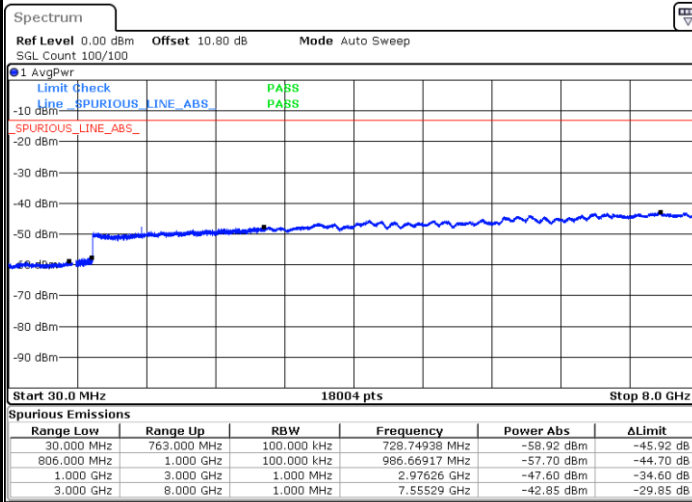


Date: 5.OCT.2019 00:14:37



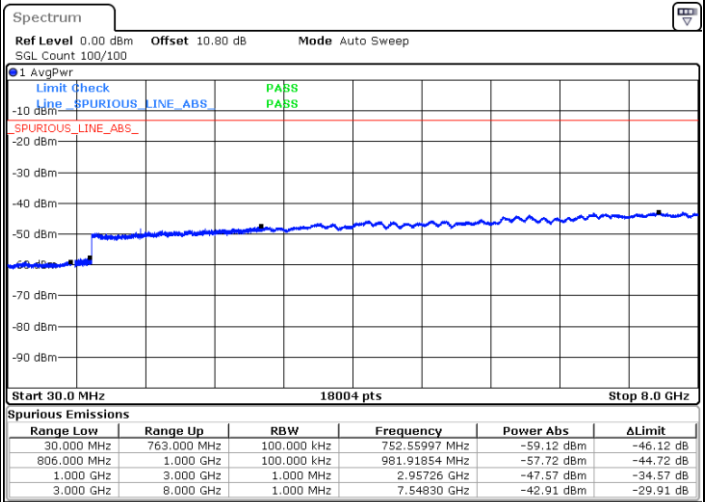
LTE Band 13 / 5MHz

Highest Channel / QPSK



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

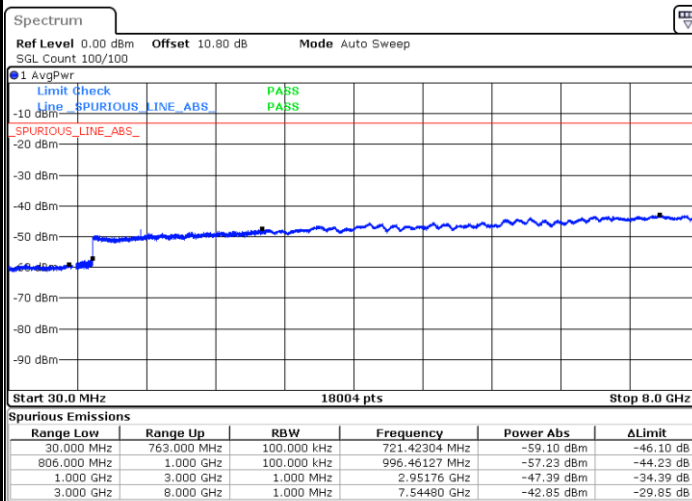
Highest Channel / 16QAM



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

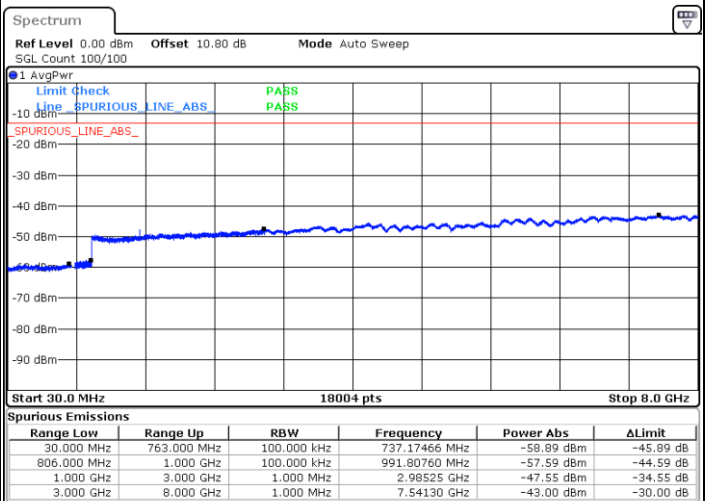
LTE Band 13 / 10MHz

Middle Channel / QPSK



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

Middle Channel / 16QAM



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