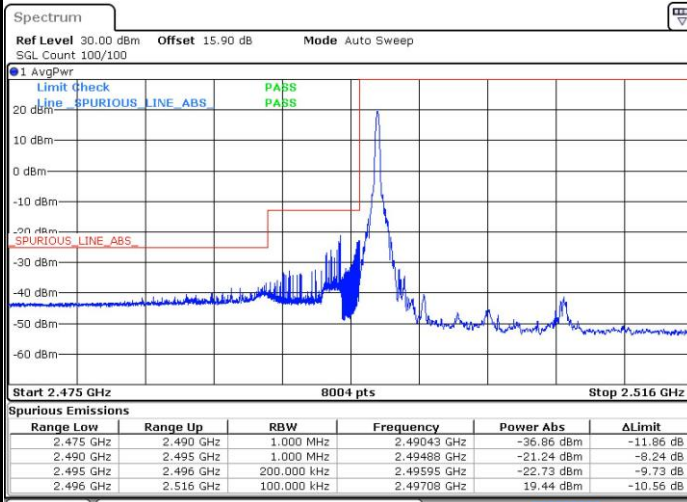




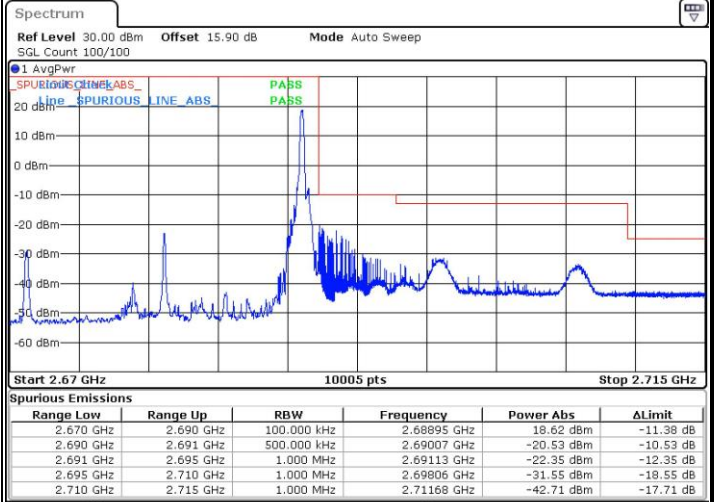
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



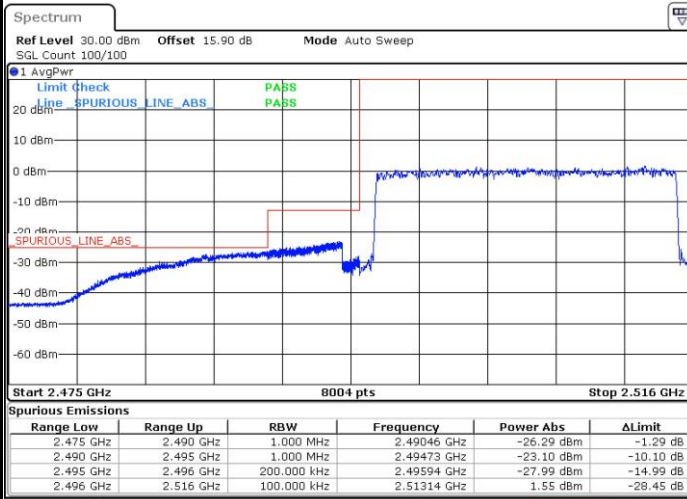
Date: 1 JUL 2019 15:11:41

Highest Band Edge / 1 RB



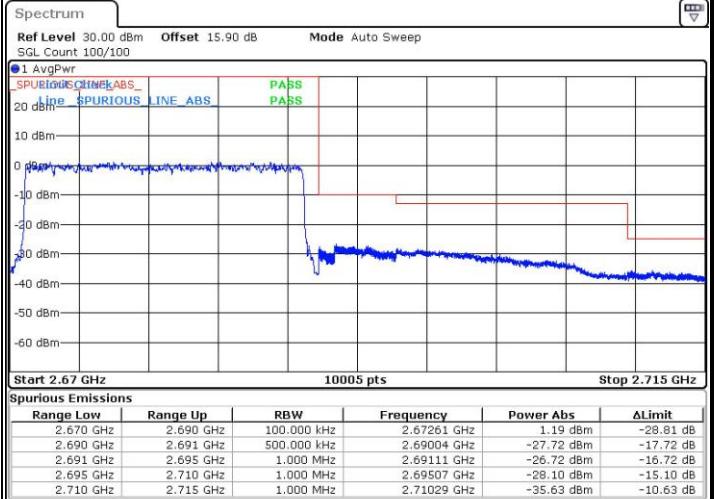
Date: 1 JUL 2019 15:14:04

Lowest Band Edge / Full RB



Date: 1 JUL 2019 16:51:01

Highest Band Edge / Full RB

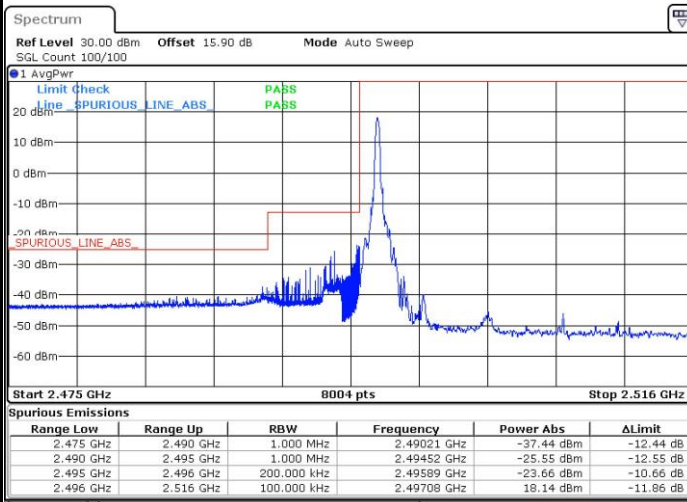


Date: 1 JUL 2019 15:15:53



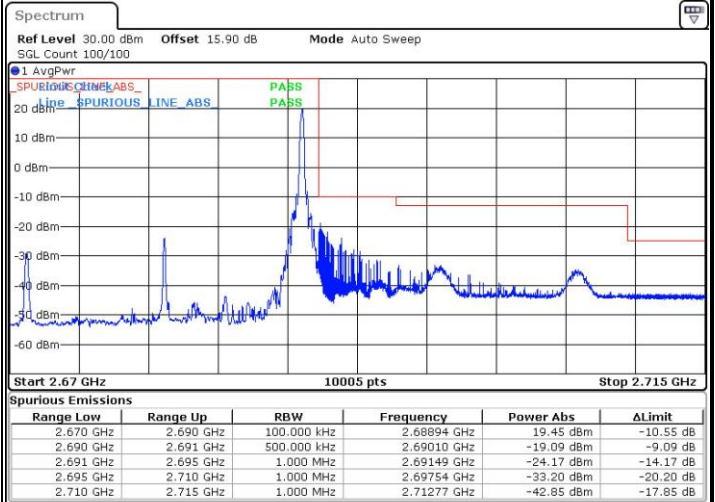
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



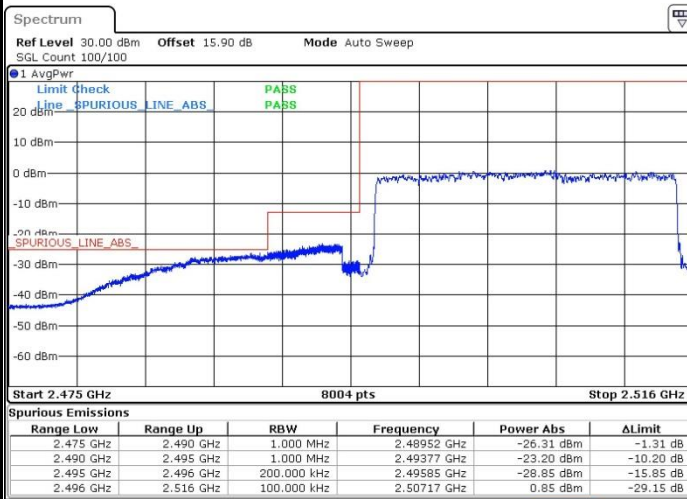
Date: 1 JUL 2019 15:12:17

Highest Band Edge / 1 RB



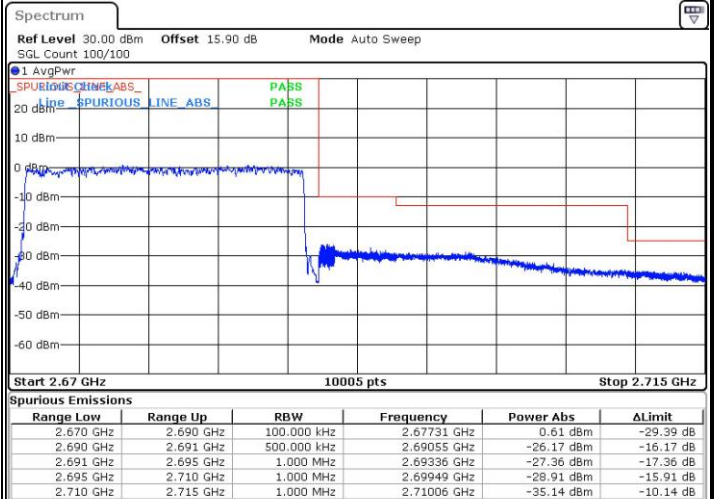
Date: 1 JUL 2019 15:14:41

Lowest Band Edge / Full RB



Date: 1 JUL 2019 16:53:01

Highest Band Edge / Full RB

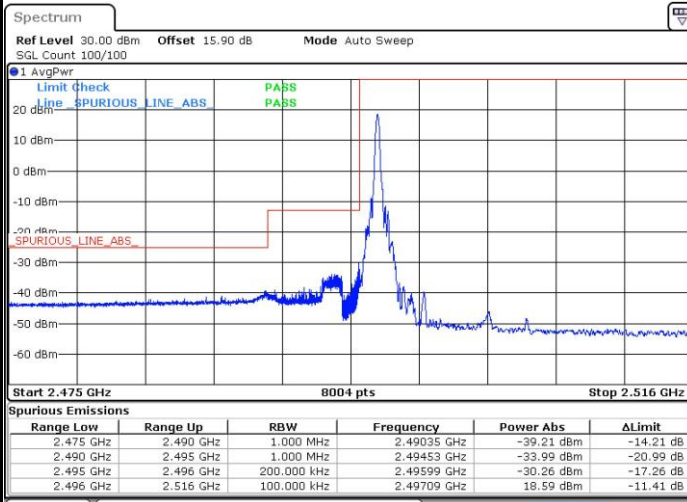


Date: 1 JUL 2019 15:15:17



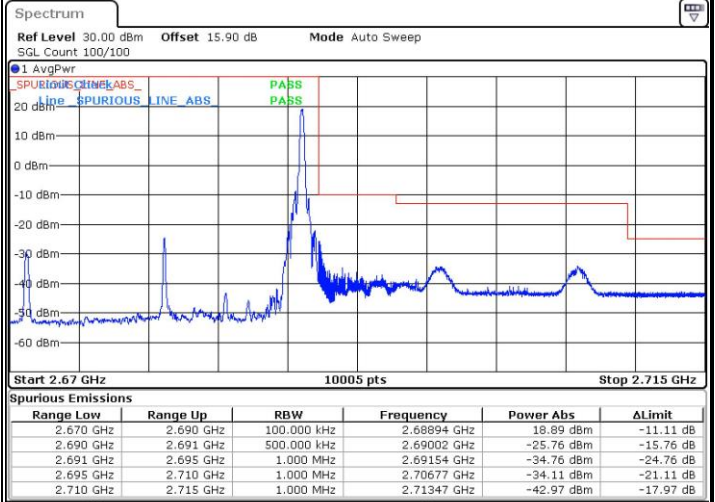
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



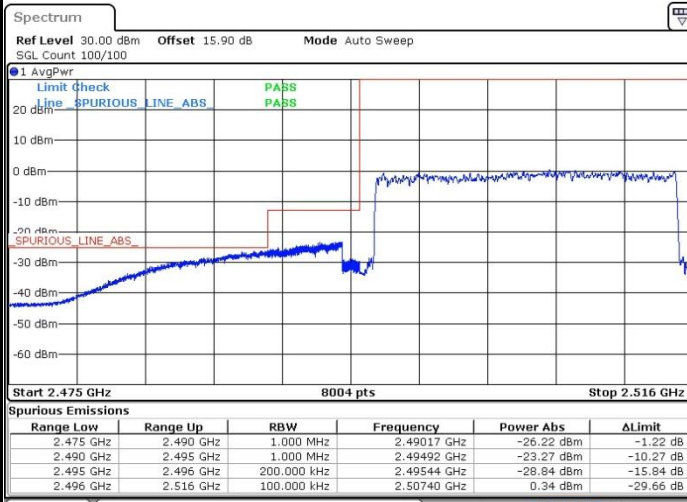
Date: 1 JUL 2019 15:23:49

Highest Band Edge / 1 RB



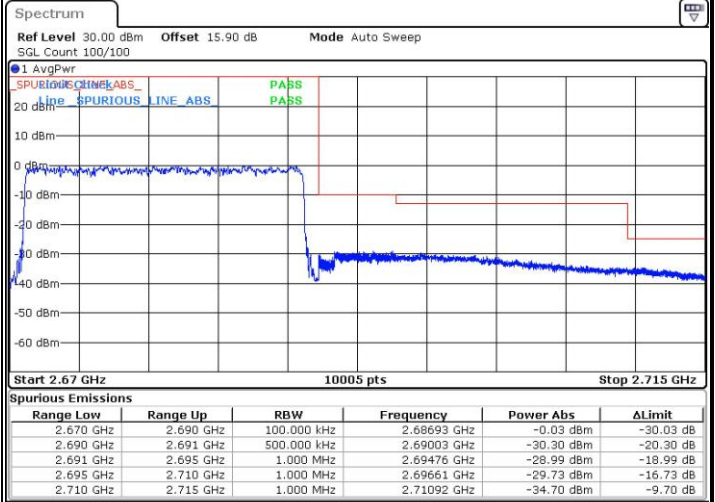
Date: 1 JUL 2019 15:25:00

Lowest Band Edge / Full RB



Date: 1 JUL 2019 16:53:29

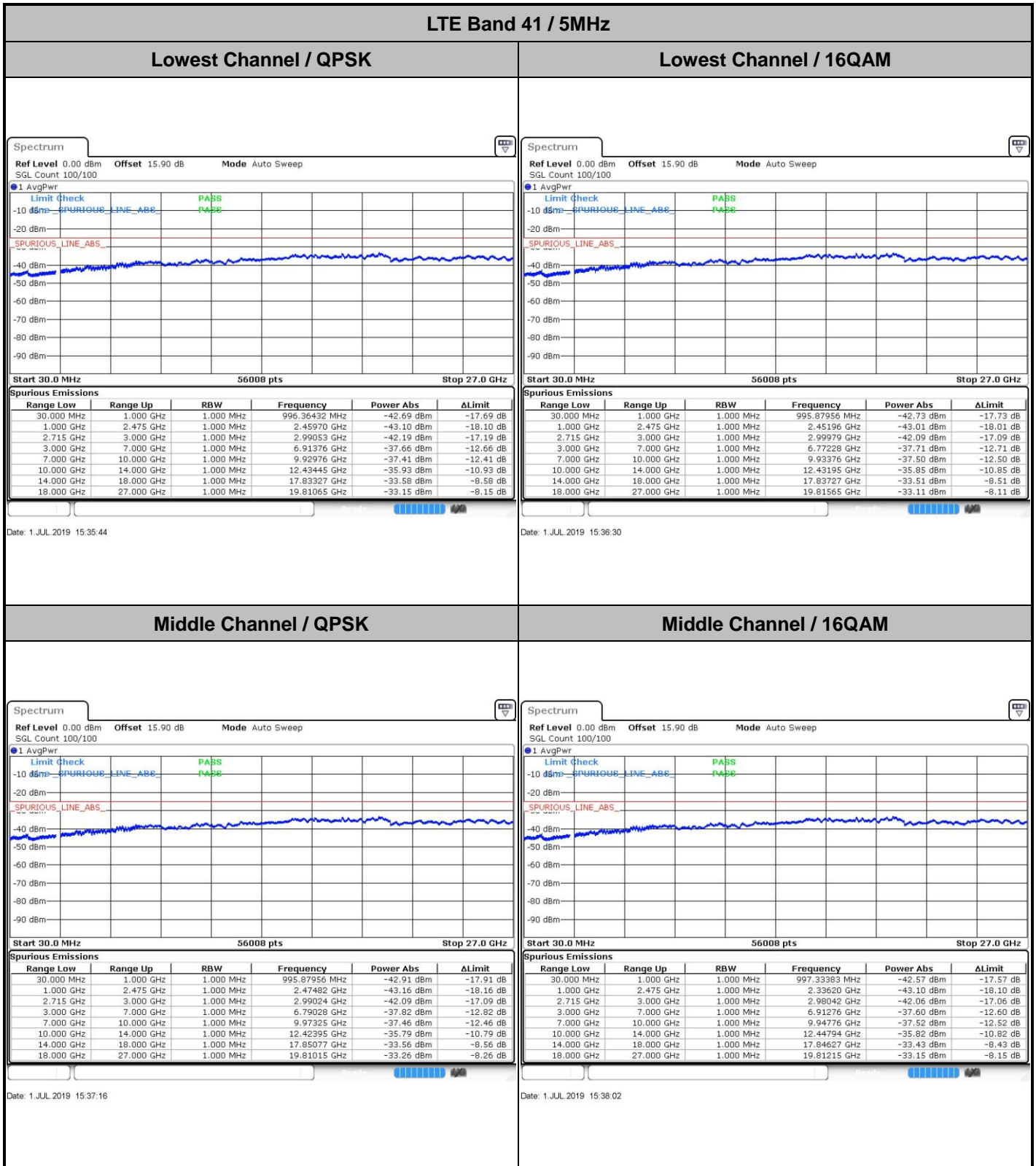
Highest Band Edge / Full RB



Date: 1 JUL 2019 15:25:36



Conducted Spurious Emission

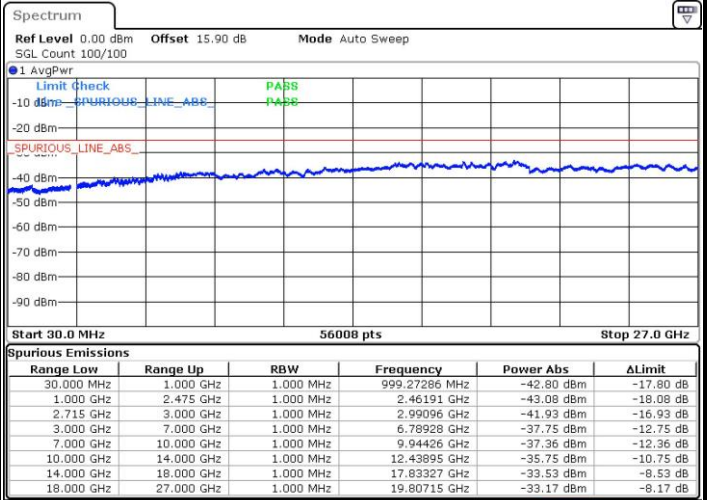
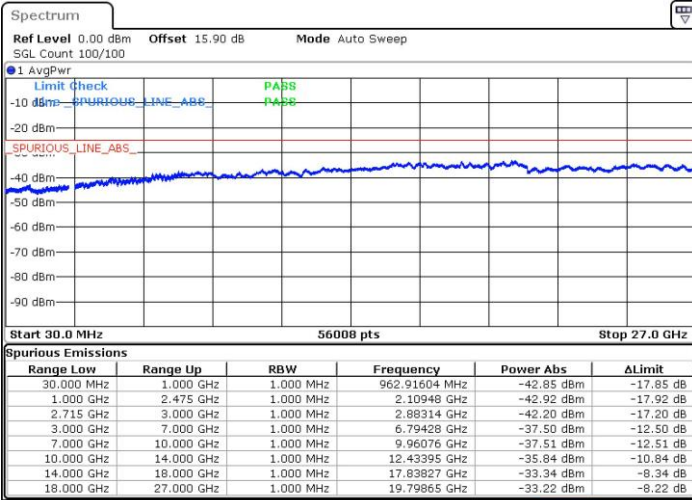




LTE Band 41 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



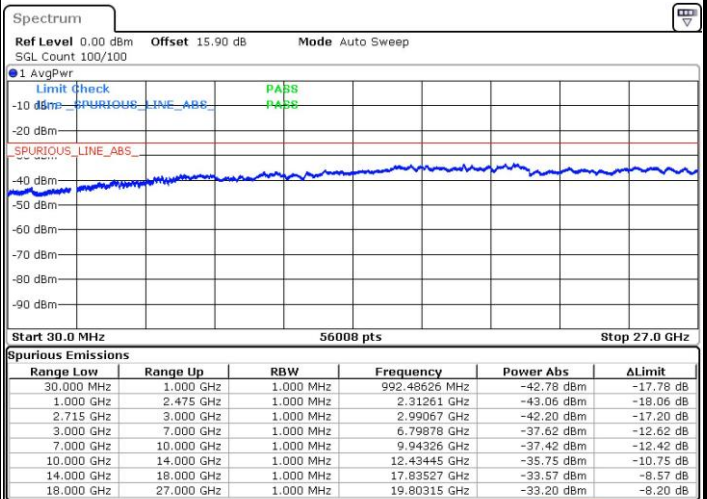
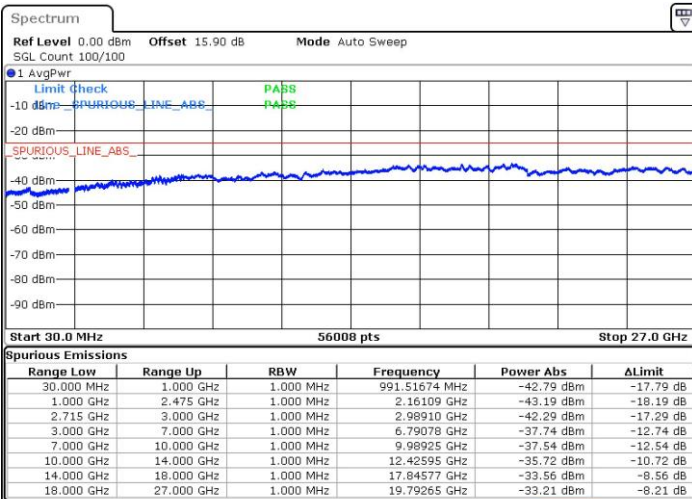
Date: 1.JUL 2019 15:38:48

Date: 1.JUL 2019 15:39:35

LTE Band 41 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 1.JUL 2019 15:40:22

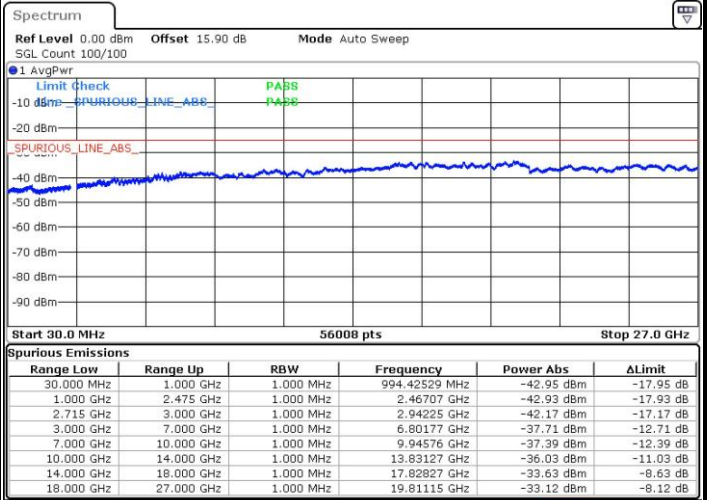
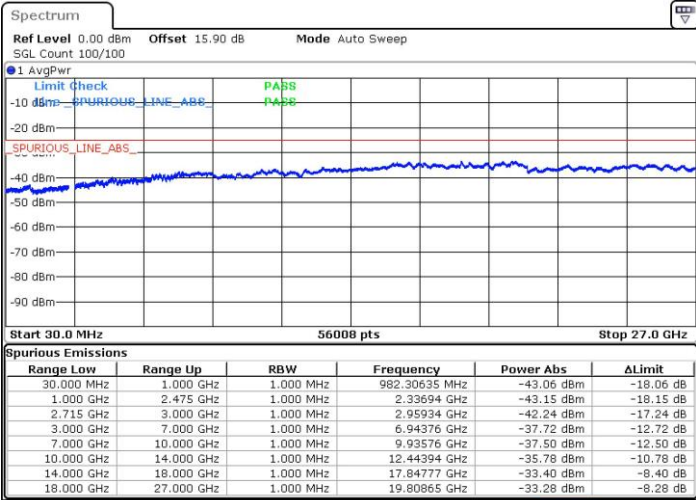
Date: 1.JUL 2019 15:41:09



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

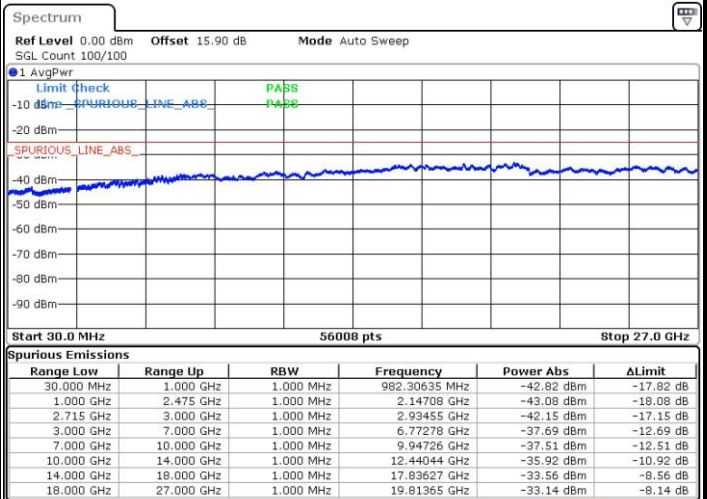
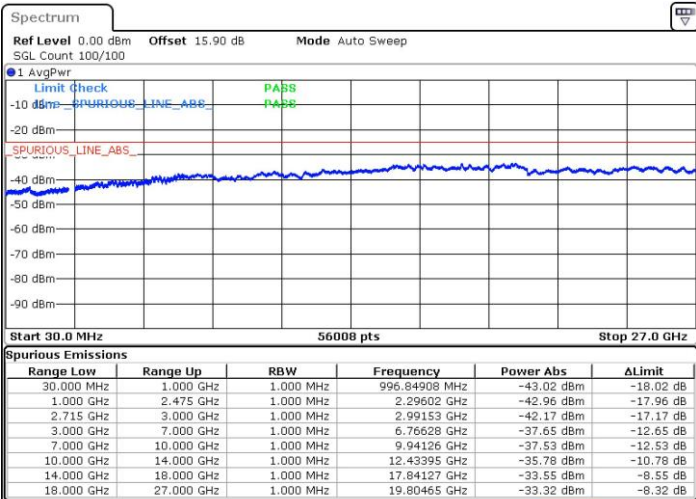


Date: 1.JUL 2019 15:41:55

Date: 1.JUL 2019 15:42:41

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.JUL 2019 15:43:27

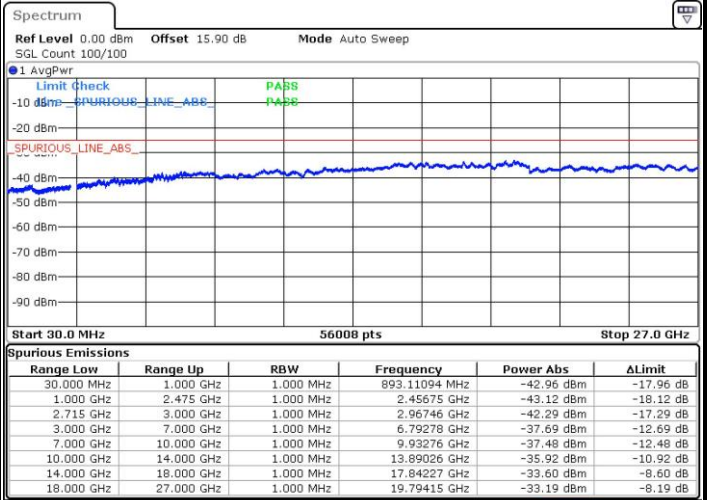
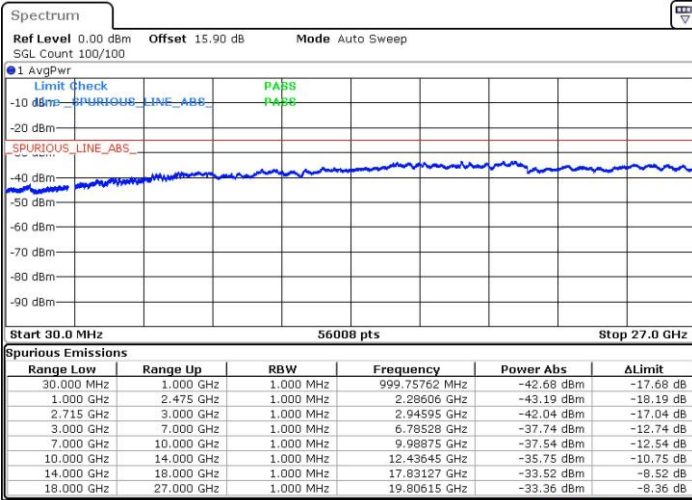
Date: 1.JUL 2019 15:44:13



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

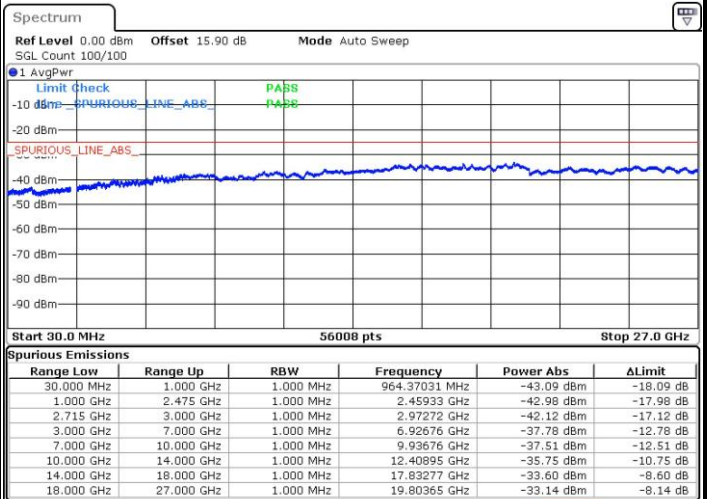
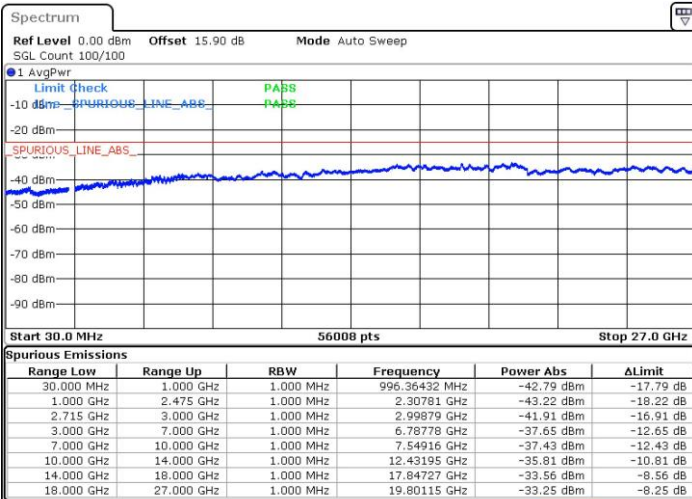


Date: 1.JUL.2019 15:45:01

Date: 1.JUL.2019 15:45:48

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 1.JUL.2019 15:46:34

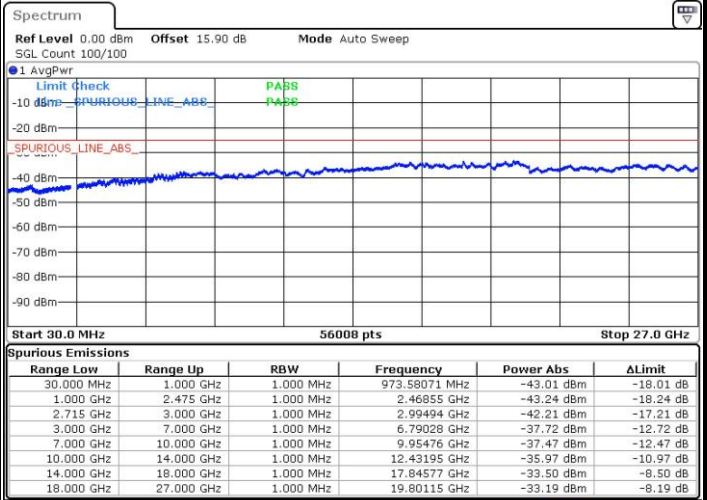
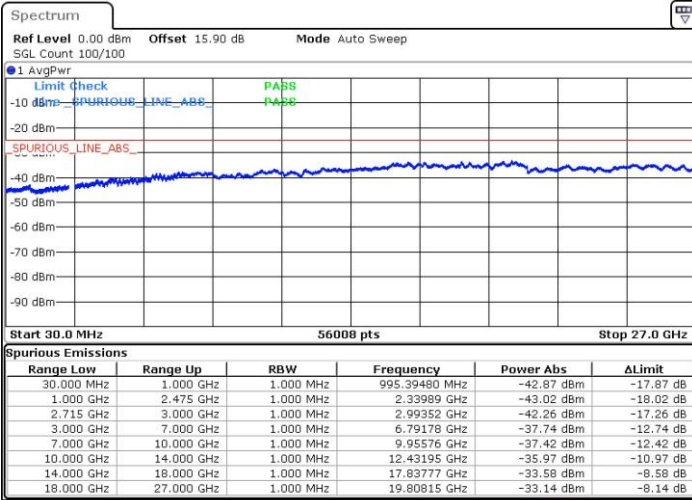
Date: 1.JUL.2019 15:47:20



LTE Band 41 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



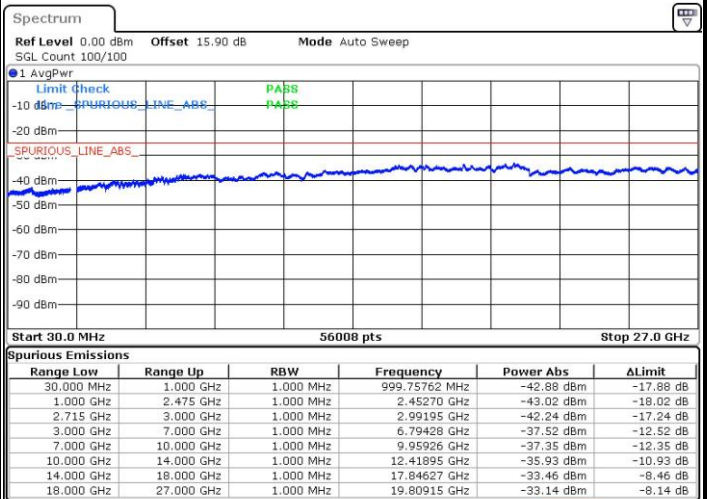
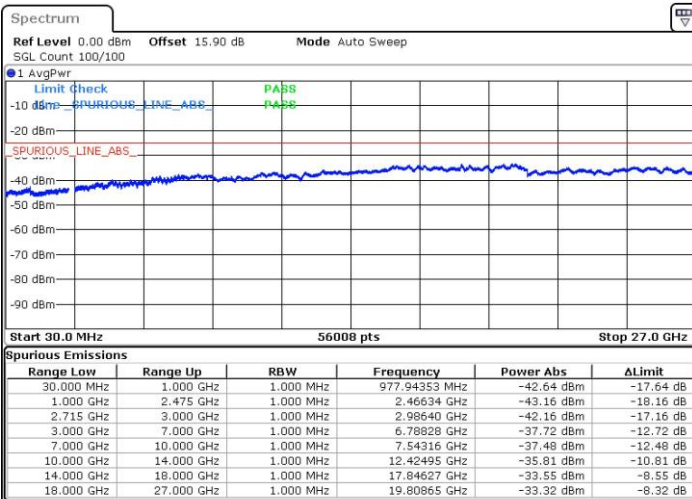
Date: 1.JUL 2019 15:48:06

Date: 1.JUL 2019 15:48:52

LTE Band 41 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 1.JUL 2019 15:49:40

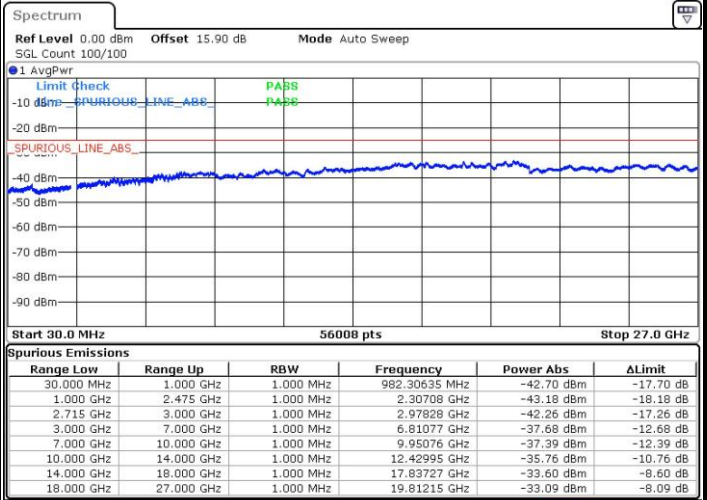
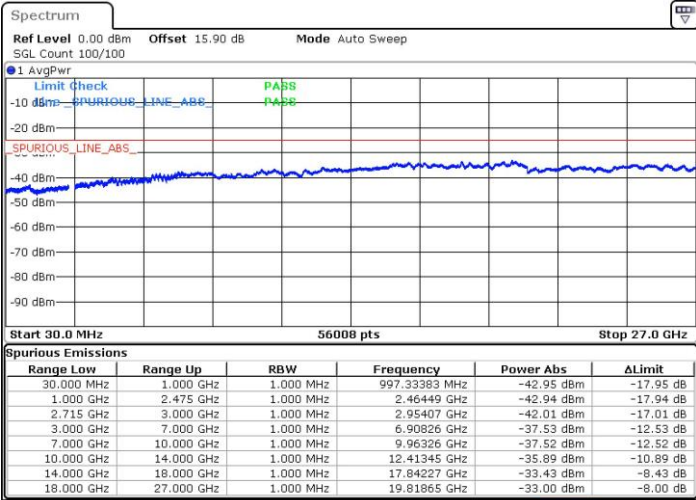
Date: 1.JUL 2019 15:50:26



LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

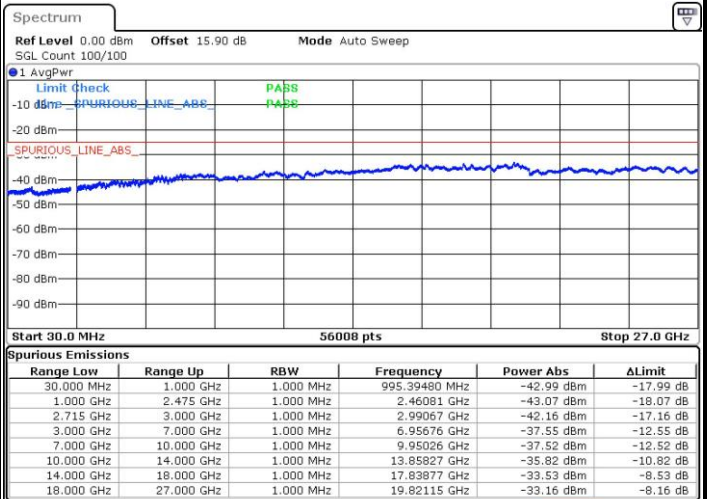
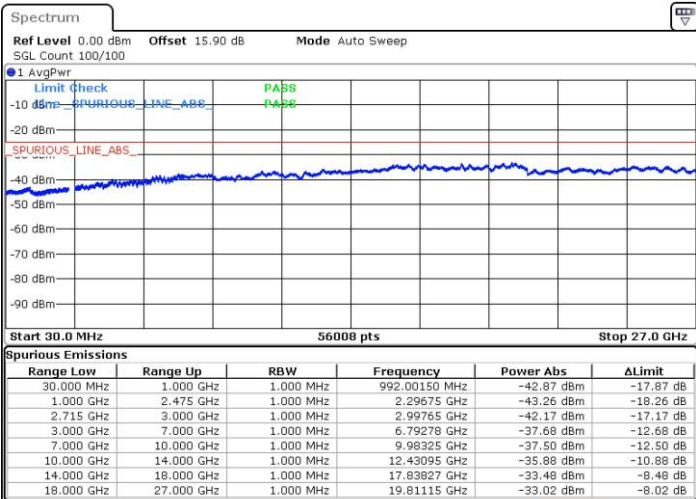


Date: 1.JUL.2019 15:51:13

Date: 1.JUL.2019 15:51:58

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 1.JUL.2019 15:52:44

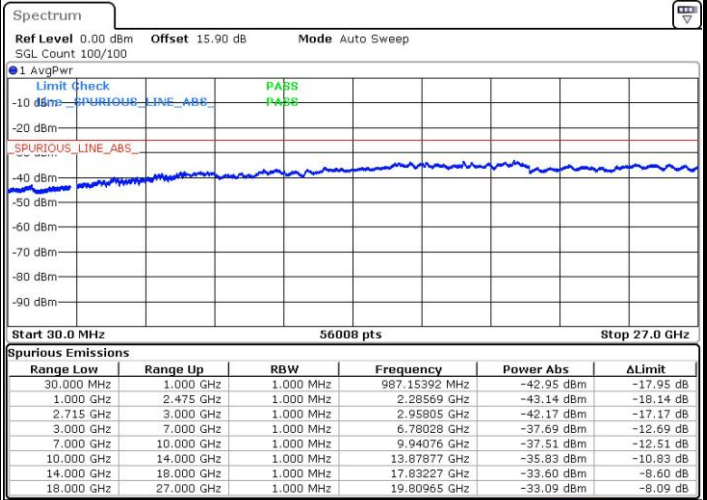
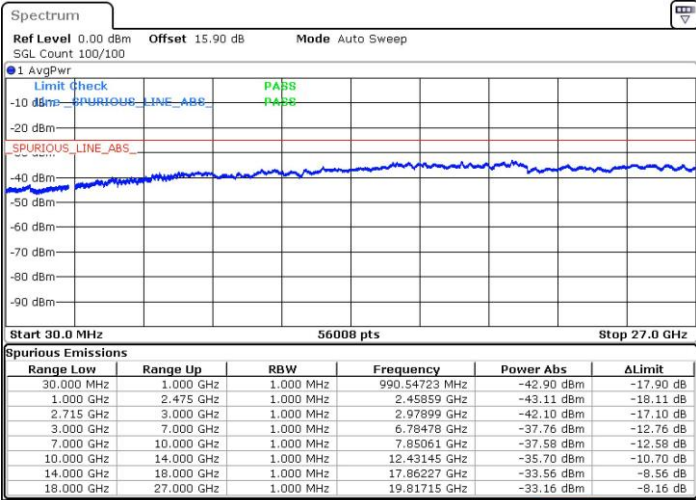
Date: 1.JUL.2019 15:53:31



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

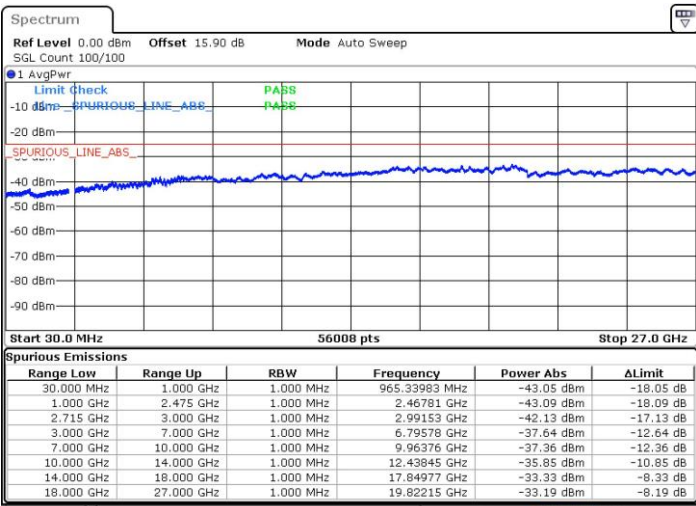
Middle Channel / 64QAM



Date: 1.JUL.2019 15:26:24

Date: 1.JUL.2019 15:27:10

Highest Channel / 64QAM



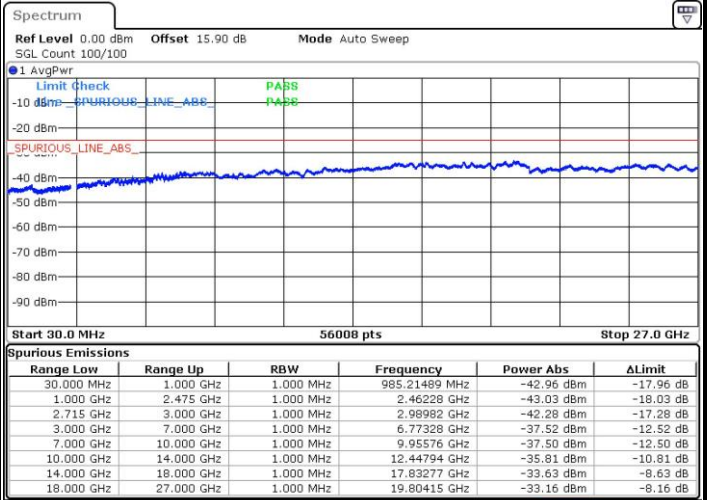
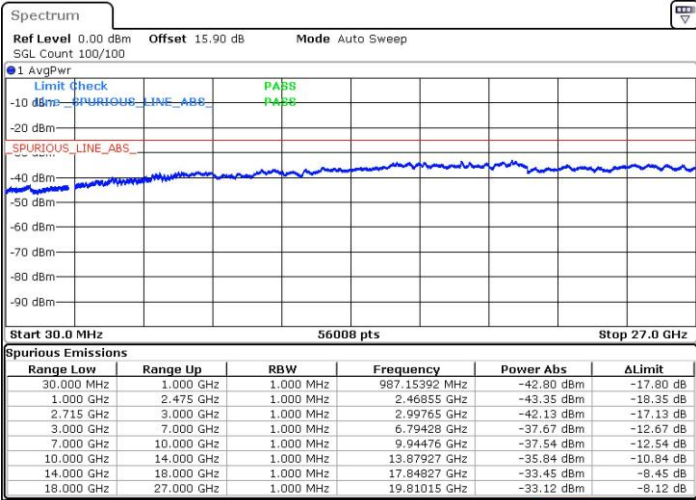
Date: 1.JUL.2019 15:27:56



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

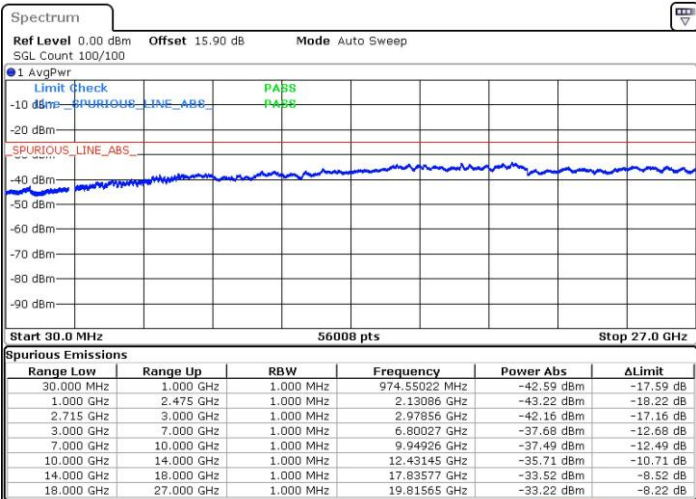
Middle Channel / 64QAM



Date: 1 JUL 2019 15:28:44

Date: 1 JUL 2019 15:29:30

Highest Channel / 64QAM



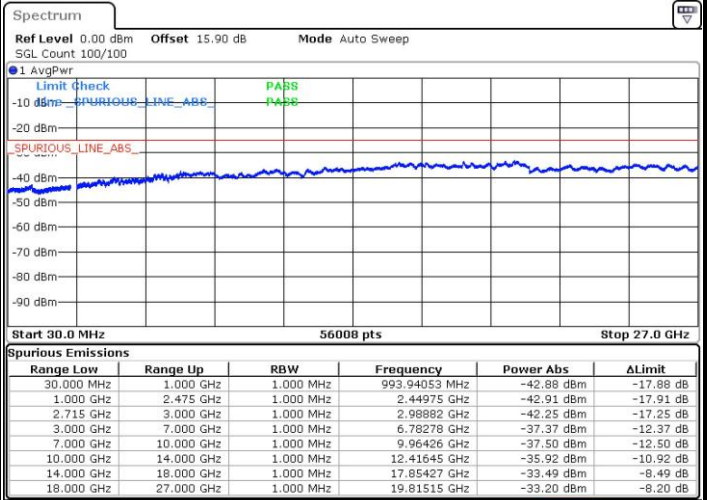
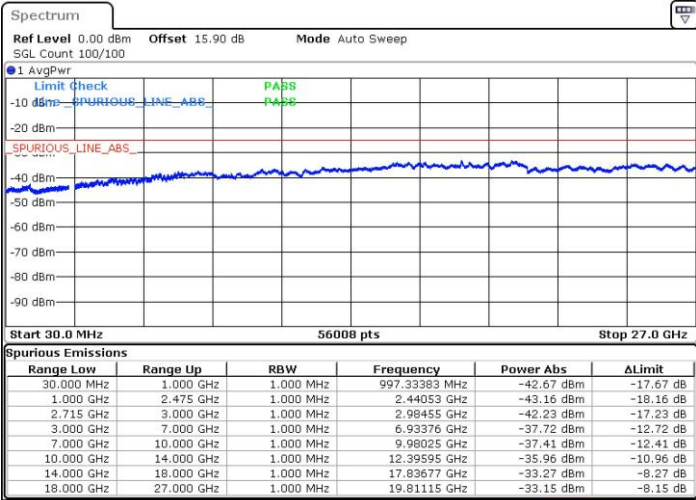
Date: 1 JUL 2019 15:30:16



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

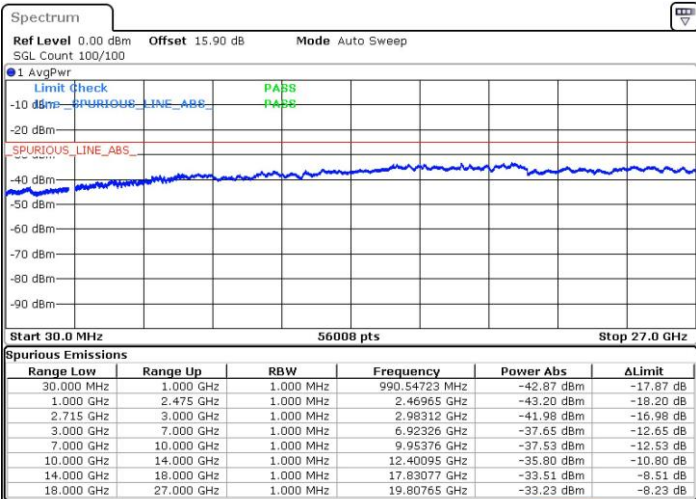
Middle Channel / 64QAM



Date: 1 JUL 2019 15:31:04

Date: 1 JUL 2019 15:31:50

Highest Channel / 64QAM



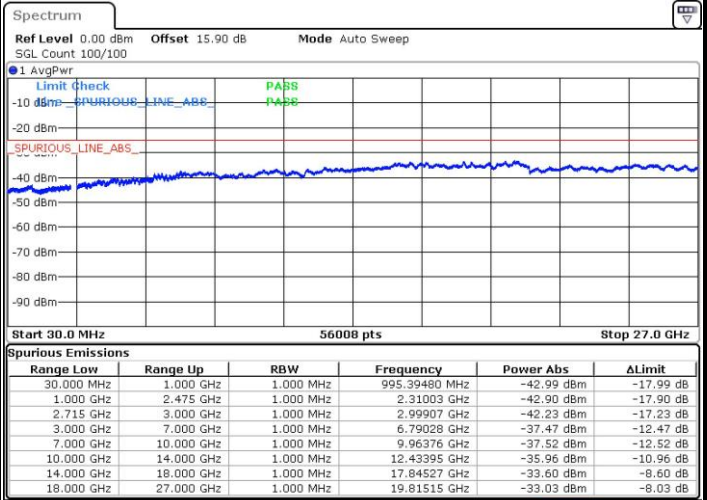
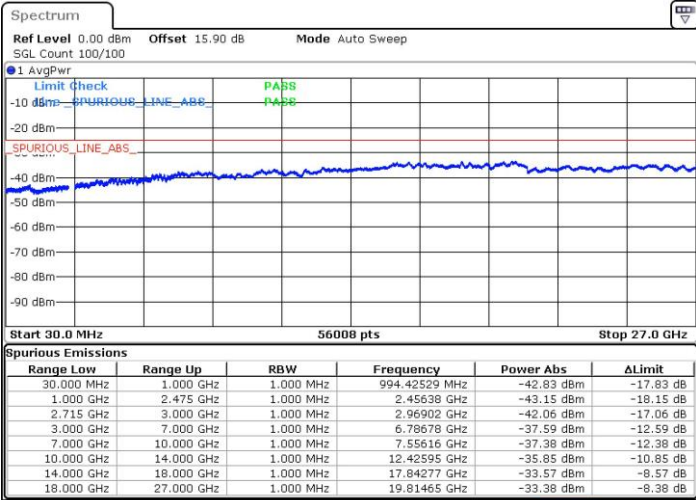
Date: 1 JUL 2019 15:32:36



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

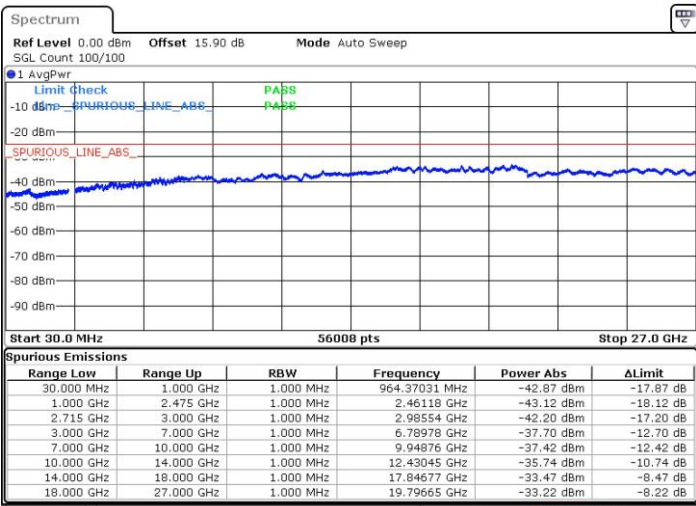
Middle Channel / 64QAM



Date: 1.JUL.2019 15:33:24

Date: 1.JUL.2019 15:34:10

Highest Channel / 64QAM



Date: 1.JUL.2019 15:34:56



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0083	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0088	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0086	
20	Maximum Voltage	0.0079	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.65 V. ; Maximum Voltage =4.25V
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



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

ERP/EIRP

LTE Band 4 / 1.4MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	3	3	18.09	0.0644	17.19	0.0524
Middle		3	3	17.96	0.0625	17.06	0.0508
Highest		3	3	17.97	0.0627	17.07	0.0509
Lowest	16QAM	1	3	17.90	0.0617	17.00	0.0501
Middle		1	3	17.72	0.0592	16.82	0.0481
Highest		1	3	17.78	0.0600	16.88	0.0488
Lowest	64QAM	1	3	17.87	0.0612	16.97	0.0498
Middle		1	3	17.70	0.0589	16.80	0.0479
Highest		1	3	17.75	0.0596	16.85	0.0484
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 3MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	8	4	18.06	0.0640	17.16	0.0520
Middle		8	4	17.88	0.0614	16.98	0.0499
Highest		8	4	17.97	0.0627	17.07	0.0509
Lowest	16QAM	1	8	17.75	0.0596	16.85	0.0484
Middle		1	8	17.62	0.0578	16.72	0.0470
Highest		1	8	17.71	0.0590	16.81	0.0480
Lowest	64QAM	1	8	17.80	0.0603	16.90	0.0490
Middle		1	8	17.63	0.0579	16.73	0.0471
Highest		1	8	17.67	0.0585	16.77	0.0475
Limit	EIRP < 1W			Result		PASS	

LTE Band 4 / 5MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	7	18.22	0.0664	17.32	0.0540
Middle		12	7	17.81	0.0604	16.91	0.0491
Highest		12	7	17.88	0.0614	16.98	0.0499
Lowest	16QAM	1	12	17.81	0.0604	16.91	0.0491
Middle		1	12	17.56	0.0570	16.66	0.0463
Highest		1	12	17.60	0.0575	16.70	0.0468
Lowest	64QAM	1	12	17.71	0.0590	16.81	0.0480
Middle		1	12	17.49	0.0561	16.59	0.0456
Highest		1	12	17.55	0.0569	16.65	0.0462
Limit	EIRP < 1W			Result		PASS	



LTE Band 4 / 10MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	0	18.15	0.0653	17.25	0.0531
Middle		25	0	18.03	0.0635	17.13	0.0516
Highest		25	0	18.01	0.0632	17.11	0.0514
Lowest	16QAM	1	25	17.83	0.0607	16.93	0.0493
Middle		1	25	17.68	0.0586	16.78	0.0476
Highest		1	25	17.66	0.0583	16.76	0.0474
Lowest	64QAM	1	25	17.78	0.0600	16.88	0.0488
Middle		1	25	17.66	0.0583	16.76	0.0474
Highest		1	25	17.63	0.0579	16.73	0.0471
Limit	EIRP < 1W		Result		PASS		

LTE Band 4 / 15MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	18.27	0.0671	17.37	0.0546
Middle		36	20	18.17	0.0656	17.27	0.0533
Highest		36	20	18.07	0.0641	17.17	0.0521
Lowest	16QAM	1	0	17.92	0.0619	17.02	0.0504
Middle		1	0	17.81	0.0604	16.91	0.0491
Highest		1	0	17.70	0.0589	16.80	0.0479
Lowest	64QAM	1	0	17.88	0.0614	16.98	0.0499
Middle		1	0	17.72	0.0592	16.82	0.0481
Highest		1	0	17.69	0.0587	16.79	0.0478
Limit	EIRP < 1W		Result		PASS		

LTE Band 4 / 20MHz (Average) (GT - LC = -0.9 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	18.28	0.0673	17.38	0.0547
Middle		50	0	18.16	0.0655	17.26	0.0532
Highest		50	0	18.09	0.0644	17.19	0.0524
Lowest	16QAM	1	0	17.96	0.0625	17.06	0.0508
Middle		1	0	17.80	0.0603	16.90	0.0490
Highest		1	0	17.79	0.0601	16.89	0.0489
Lowest	64QAM	1	0	17.91	0.0618	17.01	0.0502
Middle		1	0	17.85	0.0610	16.95	0.0495
Highest		1	0	17.76	0.0597	16.86	0.0485
Limit	EIRP < 1W		Result		PASS		



LTE Band 5 / 1.4MHz (Average) (GT - LC = -4.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	3	23.64	0.2312	16.69	0.0467
Middle		1	3	23.66	0.2323	16.71	0.0469
Highest		1	3	23.68	0.2333	16.73	0.0471
Lowest	16QAM	1	3	22.39	0.1734	15.44	0.0350
Middle		1	3	22.37	0.1726	15.42	0.0348
Highest		1	3	22.44	0.1754	15.49	0.0354
Lowest	64QAM	1	3	21.35	0.1365	14.40	0.0275
Middle		1	3	21.37	0.1371	14.42	0.0277
Highest		1	3	21.36	0.1368	14.41	0.0276
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 3MHz (Average) (GT - LC = -4.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	8	23.66	0.2323	16.71	0.0469
Middle		1	8	23.68	0.2333	16.73	0.0471
Highest		1	8	23.70	0.2344	16.75	0.0473
Lowest	16QAM	1	8	22.37	0.1726	15.42	0.0348
Middle		1	8	22.39	0.1734	15.44	0.0350
Highest		1	8	22.46	0.1762	15.51	0.0356
Lowest	64QAM	1	8	21.35	0.1365	14.40	0.0275
Middle		1	8	21.44	0.1393	14.49	0.0281
Highest		1	8	21.43	0.1390	14.48	0.0281
Limit	ERP < 7W			Result		PASS	

LTE Band 5 / 5MHz (Average) (GT - LC = -4.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.54	0.2259	16.59	0.0456
Middle		1	12	23.61	0.2296	16.66	0.0463
Highest		1	12	23.63	0.2307	16.68	0.0466
Lowest	16QAM	1	12	22.31	0.1702	15.36	0.0344
Middle		1	12	22.34	0.1714	15.39	0.0346
Highest		1	12	22.42	0.1746	15.47	0.0352
Lowest	64QAM	1	12	21.29	0.1346	14.34	0.0272
Middle		1	12	21.33	0.1358	14.38	0.0274
Highest		1	12	21.37	0.1371	14.42	0.0277
Limit	ERP < 7W			Result		PASS	



LTE Band 5 / 10MHz (Average) (GT - LC = -4.8 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	25	23.71	0.2350	16.76	0.0474
Middle		1	25	23.61	0.2296	16.66	0.0463
Highest		1	25	23.66	0.2323	16.71	0.0469
Lowest	16QAM	1	25	22.42	0.1746	15.47	0.0352
Middle		1	25	22.38	0.1730	15.43	0.0349
Highest		1	25	22.42	0.1746	15.47	0.0352
Lowest	64QAM	1	25	21.38	0.1374	14.43	0.0277
Middle		1	25	21.35	0.1365	14.40	0.0275
Highest		1	25	21.42	0.1387	14.47	0.0280
Limit	ERP < 7W			Result		PASS	



LTE Band 7 / 5MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	13	19.92	0.0982	17.32	0.0540
Middle		12	13	19.89	0.0975	17.29	0.0536
Highest		12	13	20.05	0.1012	17.45	0.0556
Lowest	16QAM	1	12	19.60	0.0912	17.00	0.0501
Middle		1	12	19.51	0.0893	16.91	0.0491
Highest		1	12	19.68	0.0929	17.08	0.0511
Lowest	64QAM	1	12	19.55	0.0902	16.95	0.0495
Middle		1	12	19.48	0.0887	16.88	0.0488
Highest		1	12	19.65	0.0923	17.05	0.0507
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 10MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	12	19.89	0.0975	17.29	0.0536
Middle		25	12	19.82	0.0959	17.22	0.0527
Highest		25	12	19.95	0.0989	17.35	0.0543
Lowest	16QAM	1	0	19.53	0.0897	16.93	0.0493
Middle		1	0	19.40	0.0871	16.80	0.0479
Highest		1	0	19.60	0.0912	17.00	0.0501
Lowest	64QAM	1	0	19.48	0.0887	16.88	0.0488
Middle		1	0	19.44	0.0879	16.84	0.0483
Highest		1	0	19.57	0.0906	16.97	0.0498
Limit	EIRP < 2W			Result		PASS	

LTE Band 7 / 15MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	0	19.96	0.0991	17.36	0.0545
Middle		36	0	19.96	0.0991	17.36	0.0545
Highest		36	0	20.11	0.1026	17.51	0.0564
Lowest	16QAM	1	74	19.68	0.0929	17.08	0.0511
Middle		1	74	19.61	0.0914	17.01	0.0502
Highest		1	74	19.71	0.0935	17.11	0.0514
Lowest	64QAM	1	74	19.63	0.0918	17.03	0.0505
Middle		1	74	19.56	0.0904	16.96	0.0497
Highest		1	74	19.66	0.0925	17.06	0.0508
Limit	EIRP < 2W			Result		PASS	



LTE Band 7 / 20MHz (Average) (GT - LC = -2.6 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	19.92	0.0982	17.32	0.0540
Middle		50	0	19.94	0.0986	17.34	0.0542
Highest		50	0	20.12	0.1028	17.52	0.0565
Lowest	16QAM	1	99	19.67	0.0927	17.07	0.0509
Middle		1	99	19.56	0.0904	16.96	0.0497
Highest		1	99	19.76	0.0946	17.16	0.0520
Lowest	64QAM	1	99	19.58	0.0908	16.98	0.0499
Middle		1	99	19.54	0.0899	16.94	0.0494
Highest		1	99	19.68	0.0929	17.08	0.0511
Limit	EIRP < 2W			Result		PASS	



LTE Band 13 / 5MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.94	0.2477	17.49	0.0561
Middle		1	12	23.94	0.2477	17.49	0.0561
Highest		1	12	23.91	0.2460	17.46	0.0557
Lowest	16QAM	1	24	22.67	0.1849	16.22	0.0419
Middle		1	24	22.68	0.1854	16.23	0.0420
Highest		1	24	22.59	0.1816	16.14	0.0411
Lowest	64QAM	1	24	21.66	0.1466	15.21	0.0332
Middle		1	24	21.66	0.1466	15.21	0.0332
Highest		1	24	21.56	0.1432	15.11	0.0324
Limit	ERP < 3W			Result		PASS	

LTE Band 13 / 10MHz (Average) (GT - LC = -4.3 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	-	-	-	-	-	-
Middle		1	25	23.95	0.2483	17.50	0.0562
Highest		-	-	-	-	-	-
Lowest	16QAM	-	-	-	-	-	-
Middle		1	25	22.73	0.1875	16.28	0.0425
Highest		-	-	-	-	-	-
Lowest	64QAM	-	-	-	-	-	-
Middle		1	25	21.69	0.1476	15.24	0.0334
Highest		-	-	-	-	-	-
Limit	ERP < 3W			Result		PASS	



LTE Band 17 / 5MHz (Average) (GT - LC = -5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	12	23.83	0.2415	16.68	0.0466
Middle		1	12	23.84	0.2421	16.69	0.0467
Highest		1	12	23.81	0.2404	16.66	0.0463
Lowest	16QAM	1	12	22.58	0.1811	15.43	0.0349
Middle		1	12	22.61	0.1824	15.46	0.0352
Highest		1	12	22.57	0.1807	15.42	0.0348
Lowest	64QAM	1	12	21.57	0.1435	14.42	0.0277
Middle		1	12	21.58	0.1439	14.43	0.0277
Highest		1	12	21.52	0.1419	14.37	0.0274
Limit	ERP < 3W			Result		PASS	

LTE Band 17 / 10MHz (Average) (GT - LC = -5 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	1	0	23.81	0.2404	16.66	0.0463
Middle		1	0	23.76	0.2377	16.61	0.0458
Highest		1	0	23.85	0.2427	16.70	0.0468
Lowest	16QAM	1	0	22.53	0.1791	15.38	0.0345
Middle		1	0	22.46	0.1762	15.31	0.0340
Highest		1	0	22.58	0.1811	15.43	0.0349
Lowest	64QAM	1	0	21.51	0.1416	14.36	0.0273
Middle		1	0	21.43	0.1390	14.28	0.0268
Highest		1	0	21.48	0.1406	14.33	0.0271
Limit	ERP < 3W			Result		PASS	



LTE Band 41 / 5MHz (Average) (GT - LC = -3.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	12	7	22.49	0.1774	19.29	0.0849
Middle		12	7	22.40	0.1738	19.20	0.0832
Highest		12	7	22.37	0.1726	19.17	0.0826
Lowest	16QAM	12	7	21.97	0.1574	18.77	0.0753
Middle		12	7	21.84	0.1528	18.64	0.0731
Highest		12	7	21.83	0.1524	18.63	0.0729
Lowest	64QAM	1	12	21.61	0.1449	18.41	0.0693
Middle		1	12	21.58	0.1439	18.38	0.0689
Highest		1	12	21.52	0.1419	18.32	0.0679
Limit	EIRP < 2W		Result		PASS		

LTE Band 41 / 10MHz (Average) (GT - LC = -3.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	22.42	0.1746	19.22	0.0836
Middle		50	0	22.39	0.1734	19.19	0.0830
Highest		50	0	22.33	0.1710	19.13	0.0818
Lowest	16QAM	50	0	21.92	0.1556	18.72	0.0745
Middle		50	0	21.93	0.1560	18.73	0.0746
Highest		50	0	21.90	0.1549	18.70	0.0741
Lowest	64QAM	1	25	21.49	0.1409	18.29	0.0675
Middle		1	25	21.51	0.1416	18.31	0.0678
Highest		1	25	21.50	0.1413	18.30	0.0676
Limit	EIRP < 2W		Result		PASS		

LTE Band 41 / 15MHz (Average) (GT - LC = -3.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	36	20	22.47	0.1766	19.27	0.0845
Middle		36	20	22.45	0.1758	19.25	0.0841
Highest		36	20	22.43	0.1750	19.23	0.0838
Lowest	16QAM	75	0	21.98	0.1578	18.78	0.0755
Middle		75	0	21.97	0.1574	18.77	0.0753
Highest		75	0	21.94	0.1563	18.74	0.0748
Lowest	64QAM	1	74	21.58	0.1439	18.38	0.0689
Middle		1	74	21.53	0.1422	18.33	0.0681
Highest		1	74	21.63	0.1455	18.43	0.0697
Limit	EIRP < 2W		Result		PASS		



LTE Band 41 / 20MHz (Average) (GT - LC = -3.2 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	50	22.49	0.1774	19.29	0.0849
Middle		50	50	22.45	0.1758	19.25	0.0841
Highest		50	50	22.50	0.1778	19.30	0.0851
Lowest	16QAM	50	50	22.03	0.1596	18.83	0.0764
Middle		50	50	22.00	0.1585	18.80	0.0759
Highest		50	50	22.04	0.1600	18.84	0.0766
Lowest	64QAM	1	99	21.53	0.1422	18.33	0.0681
Middle		1	99	21.48	0.1406	18.28	0.0673
Highest		1	99	21.65	0.1462	18.45	0.0700
Limit	EIRP < 2W			Result		PASS	



Radiated Spurious Emission

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	3431	-54.59	-13	-41.59	-70.9	-65.58	1.35	12.33	H
	5147	-50.33	-13	-37.33	-72.04	-61.49	1.65	12.81	H
	6862	-46.33	-13	-33.33	-71.83	-56.68	1.74	12.09	H
									H
									H
									H
	3431	-55.81	-13	-42.81	-72.53	-66.80	1.35	12.33	V
	5147	-51.96	-13	-38.96	-73.43	-63.12	1.65	12.81	V
	6862	-48.61	-13	-35.61	-73.7	-58.96	1.74	12.09	V
									V
									V
									V
Middle	3456	-53.73	-13	-40.73	-70.27	-64.77	1.35	12.39	H
	5184	-50.46	-13	-37.46	-72.18	-61.66	1.66	12.86	H
	6912	-46.58	-13	-33.58	-72.35	-56.87	1.73	12.02	H
									H
									H
									H
	3456	-55.50	-13	-42.50	-72.43	-66.54	1.35	12.39	V
	5184	-52.24	-13	-39.24	-73.78	-63.44	1.66	12.86	V
	6912	-48.24	-13	-35.24	-73.57	-58.53	1.73	12.02	V
									V
									V
									V



Highest	3481	-54.69	-13	-41.69	-71.48	-65.79	1.36	12.45	H
	5222	-50.47	-13	-37.47	-72.27	-61.71	1.67	12.91	H
	6962	-46.27	-13	-33.27	-72.3	-56.50	1.73	11.95	H
									H
									H
									H
									H
	3481	-55.81	-13	-42.81	-72.97	-66.91	1.36	12.45	V
	5222	-52.11	-13	-39.11	-73.73	-63.35	1.67	12.91	V
	6962	-48.13	-13	-35.13	-73.68	-58.36	1.73	11.95	V
									V
									V
									V
									V

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



LTE Band 5

LTE Band 5 / 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)	
Lowest	1656	-60.84	-13	-47.84	-70.94	-66.46	0.92	8.69	H	
	2488	-56.16	-13	-43.16	-70.47	-63.55	1.15	10.68	H	
	3320	-55.04	-13	-42.04	-70.65	-63.63	1.33	12.07	H	
	4144	-46.12	-13	-33.12	-64.87	-55.27	1.47	12.77	H	
										H
										H
										H
	1656	-61.43	-13	-48.43	-70.96	-67.05	0.92	8.69	V	
	2488	-56.26	-13	-43.26	-70.76	-63.65	1.15	10.68	V	
	3320	-54.78	-13	-41.78	-70.85	-63.37	1.33	12.07	V	
	4144	-50.25	-13	-37.25	-69.08	-59.40	1.47	12.77	V	
										V
										V
										V
Middle	1672	-60.22	-13	-47.22	-70.37	-65.90	0.93	8.75	H	
	2512	-56.31	-13	-43.31	-70.6	-63.72	1.15	10.71	H	
	3344	-55.09	-13	-42.09	-70.65	-63.73	1.33	12.13	H	
	4184	-47.36	-13	-34.36	-66.14	-56.51	1.46	12.76	H	
										H
										H
										H
	1672	-60.72	-13	-47.72	-70.24	-66.40	0.93	8.75	V	
	2512	-56.05	-13	-43.05	-70.53	-63.46	1.15	10.71	V	
	3344	-54.82	-13	-41.82	-70.83	-63.46	1.33	12.13	V	
	4184	-51.67	-13	-38.67	-70.58	-60.82	1.46	12.76	V	
										V
										V
										V



Highest	1688	-60.43	-13	-47.43	-70.66	-66.16	0.93	8.81	H
	2536	-56.25	-13	-43.25	-70.52	-63.68	1.16	10.74	H
	3376	-55.73	-13	-42.73	-71.21	-64.44	1.34	12.20	H
	4224	-43.43	-13	-30.43	-62.33	-52.58	1.45	12.76	H
									H
									H
									H
	1688	-61.15	-13	-48.15	-70.69	-66.88	0.93	8.81	V
	2536	-56.43	-13	-43.43	-70.83	-63.86	1.16	10.74	V
	3376	-55.14	-13	-42.14	-71.06	-63.85	1.34	12.20	V
	4224	-47.38	-13	-34.38	-66.39	-56.53	1.45	12.76	V
									V
									V
									V

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



LTE Band 7

LTE Band 7 / 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	5010	-50.19	-25	-25.19	-71.85	-61.19	1.61	12.61	H
	7518	-45.64	-25	-20.64	-72.08	-54.75	1.99	11.10	H
	10026	-42.01	-25	-17.01	-71.06	-50.89	2.40	11.28	H
									H
									H
									H
									H
	5010	-50.72	-25	-25.72	-71.95	-61.72	1.61	12.61	V
	7518	-45.80	-25	-20.80	-72.2	-54.91	1.99	11.10	V
	10026	-40.96	-25	-15.96	-70.75	-49.84	2.40	11.28	V
									V
									V
									V
									V
Middle	5064	-50.16	-25	-25.16	-71.85	-61.22	1.63	12.69	H
	7590	-46.02	-25	-21.02	-72.13	-55.14	2.00	11.12	H
	10125	-41.90	-25	-16.90	-71.33	-50.70	2.40	11.20	H
									H
									H
									H
									H
	5064	-50.84	-25	-25.84	-72.17	-61.90	1.63	12.69	V
	7590	-46.15	-25	-21.15	-72.21	-55.27	2.00	11.12	V
	10125	-41.60	-25	-16.60	-71.56	-50.40	2.40	11.20	V
									V
									V
									V
									V



Highest	5112	-50.69	-25	-25.69	-72.38	-61.81	1.64	12.76	H
	7668	-45.79	-25	-20.79	-71.85	-54.91	2.01	11.13	H
	10224	-41.75	-25	-16.75	-71.55	-50.48	2.40	11.12	H
									H
									H
									H
									H
	5112	-50.95	-25	-25.95	-72.36	-62.07	1.64	12.76	V
	7668	-45.94	-25	-20.94	-71.86	-55.06	2.01	11.13	V
	10224	-41.55	-25	-16.55	-71.66	-50.28	2.40	11.12	V
									V
									V
									V
									V

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



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	1559	-60.16	-42.15	-18.01	-70.41	-65.44	0.89	8.32	H
	2338	-56.25	-13	-43.25	-71.04	-63.46	1.11	10.47	H
	3118	-55.10	-13	-42.10	-70.88	-63.24	1.29	11.58	H
									H
									H
									H
									H
	1559	-60.76	-42.15	-18.61	-70.36	-66.04	0.89	8.32	V
	2338	-56.51	-13	-43.51	-70.88	-63.72	1.11	10.47	V
	3118	-54.72	-13	-41.72	-70.85	-62.86	1.29	11.58	V
									V
									V
									V
									V
Middle	1564	-60.17	-42.15	-18.02	-70.39	-65.47	0.89	8.34	H
	2346	-56.22	-13	-43.22	-70.95	-63.44	1.12	10.48	H
	3128	-54.93	-13	-41.93	-70.73	-63.09	1.29	11.61	H
									H
									H
									H
									H
	1564	-60.88	-42.15	-18.73	-70.48	-66.18	0.89	8.34	V
	2346	-56.98	-13	-43.98	-71.35	-64.20	1.12	10.48	V
	3128	-54.71	-13	-41.71	-70.89	-62.87	1.29	11.61	V
									V
									V
									V
									V
								V	



Highest	1569	-60.70	-42.15	-18.55	-70.89	-66.02	0.89	8.36	H
	2353	-56.29	-13	-43.29	-70.98	-63.52	1.12	10.49	H
	3138	-55.16	-13	-42.16	-70.97	-63.35	1.29	11.63	H
	3922	-46.18	-13	-33.18	-64.59	-55.31	1.47	12.75	H
									H
									H
									H
	1569	-60.80	-42.15	-18.65	-70.41	-66.12	0.89	8.36	V
	2353	-56.29	-13	-43.29	-70.65	-63.52	1.12	10.49	V
	3138	-54.93	-13	-41.93	-71.14	-63.12	1.29	11.63	V
	3922	-47.99	-13	-34.99	-66.44	-57.12	1.47	12.75	V
									V
									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	1564	-60.13	-42.15	-17.98	-70.35	-65.43	0.89	8.34	H
	2346	-56.48	-13	-43.48	-71.21	-63.70	1.12	10.48	H
	3128	-55.14	-13	-42.14	-70.94	-63.30	1.29	11.61	H
									H
									H
									H
									H
	1564	-60.83	-42.15	-18.68	-70.43	-66.13	0.89	8.34	V
	2346	-56.69	-13	-43.69	-71.06	-63.91	1.12	10.48	V
	3128	-54.49	-13	-41.49	-70.67	-62.65	1.29	11.61	V
									V
									V
									V
									V

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



LTE Band 17

LTE Band 17 / 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)
Lowest	1409	-58.95	-13	-45.95	-70.22	-63.64	0.85	7.68	H
	2113	-52.46	-13	-39.46	-66.85	-59.40	1.06	10.16	H
	2818	-55.60	-13	-42.60	-70.53	-63.31	1.23	11.08	H
									H
									H
									H
									H
	1409	-59.89	-13	-46.89	-69.94	-64.58	0.85	7.68	V
	2113	-57.38	-13	-44.38	-70.65	-64.32	1.06	10.16	V
	2818	-55.53	-13	-42.53	-70.42	-63.24	1.23	11.08	V
									V
									V
									V
									V
Middle	1411	-58.51	-13	-45.51	-69.77	-63.20	0.85	7.69	H
	2116	-55.71	-13	-42.71	-70.17	-62.66	1.07	10.16	H
	2822	-55.60	-13	-42.60	-70.54	-63.31	1.23	11.09	H
									H
									H
									H
									H
	1411	-59.94	-13	-46.94	-69.98	-64.63	0.85	7.69	V
	2116	-57.24	-13	-44.24	-70.57	-64.19	1.07	10.16	V
	2822	-55.43	-13	-42.43	-70.33	-63.14	1.23	11.09	V
									V
									V
									V
									V



Highest	1413	-59.29	-13	-46.29	-70.54	-63.99	0.85	7.70	H
	2119	-55.95	-13	-42.95	-70.46	-62.90	1.07	10.17	H
	2826	-55.78	-13	-42.78	-70.74	-63.49	1.23	11.09	H
									H
									H
									H
									H
	1413	-60.61	-13	-47.61	-70.64	-65.31	0.85	7.70	V
	2119	-57.26	-13	-44.26	-70.64	-64.21	1.07	10.17	V
	2826	-55.88	-13	-42.88	-70.81	-63.59	1.23	11.09	V
									V
									V
									V
									V

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



LTE Band 41

LTE Band 41 / 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	5022	-50.85	-25	-25.85	-72.52	-61.87	1.62	12.63	H
	7531	-46.54	-25	-21.54	-72.91	-55.65	1.99	11.11	H
	10044	-42.59	-25	-17.59	-71.71	-51.46	2.40	11.26	H
									H
									H
									H
									H
	5022	-51.27	-25	-26.27	-72.52	-62.29	1.62	12.63	V
	7531	-46.23	-25	-21.23	-72.56	-55.34	1.99	11.11	V
	10044	-41.83	-25	-16.83	-71.66	-50.70	2.40	11.26	V
									V
									V
									V
									V
Middle	5196	-51.09	-25	-26.09	-72.82	-62.30	1.66	12.87	H
	7792	-46.61	-25	-21.61	-72.65	-55.74	2.03	11.16	H
	10390	-42.26	-25	-17.26	-72.69	-50.86	2.39	10.99	H
									H
									H
									H
									H
	5196	-51.51	-25	-26.51	-73.07	-62.72	1.66	12.87	V
	7792	-46.77	-25	-21.77	-72.52	-55.90	2.03	11.16	V
	10390	-42.13	-25	-17.13	-72.51	-50.73	2.39	10.99	V
									V
									V
									V
									V



Highest	5370	-49.86	-25	-24.86	-72.17	-61.27	1.71	13.12	H
	8053	-44.73	-25	-19.73	-71.84	-53.98	2.06	11.31	H
	10737	-40.94	-25	-15.94	-72.54	-49.33	2.51	10.90	H
									H
									H
									H
									H
	5370	-50.56	-25	-25.56	-72.49	-61.97	1.71	13.12	V
	8053	-44.83	-25	-19.83	-71.92	-54.08	2.06	11.31	V
	10737	-40.83	-25	-15.83	-72.2	-49.22	2.51	10.90	V
									V
									V
									V
									V

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