

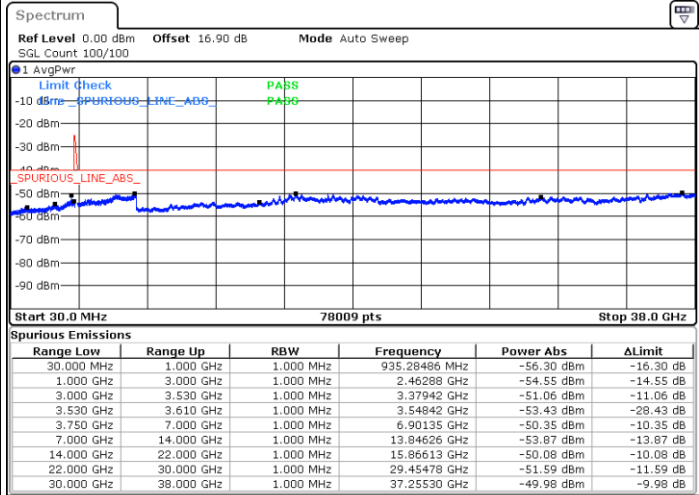
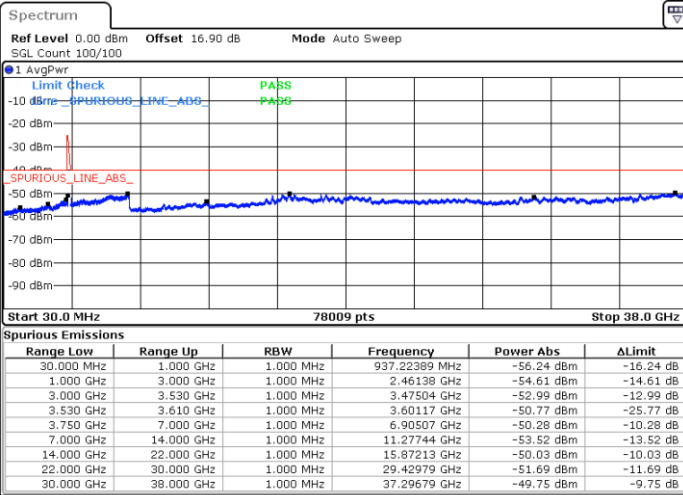


LTE Band 48C / 15MHz+20MHz

256QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0

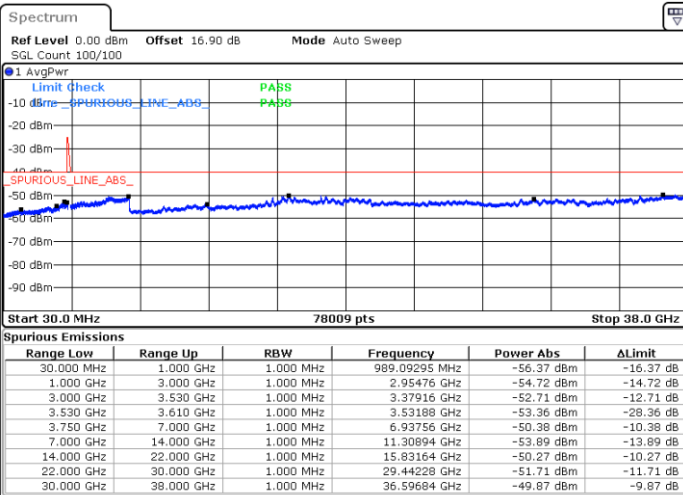


Date: 30.OCT.2020 10:54:38

Date: 30.OCT.2020 10:53:23

Highest Channel / FullIRB

N/A



Date: 30.OCT.2020 11:03:31

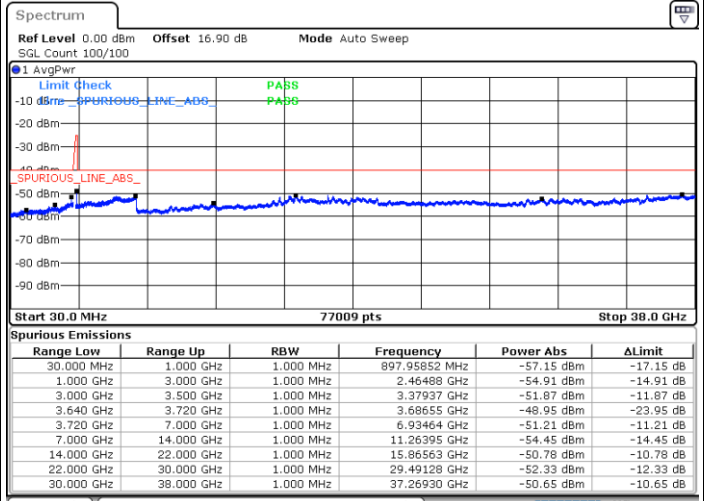
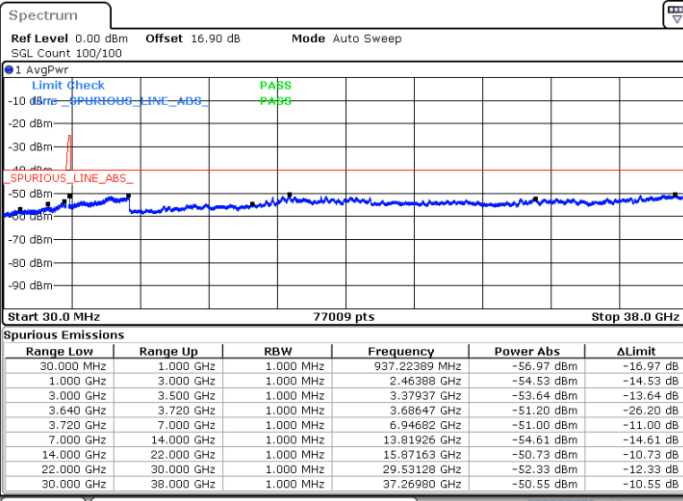


LTE Band 48C / 20MHz+5MHz

256QAM

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0

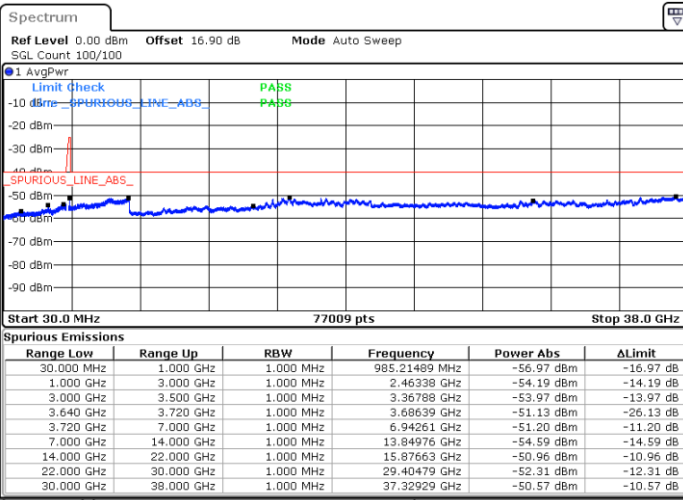


Date: 30.OCT.2020 19:21:10

Date: 30.OCT.2020 19:19:55

Lowest Channel / FullIRB

N/A



Date: 30.OCT.2020 19:22:26

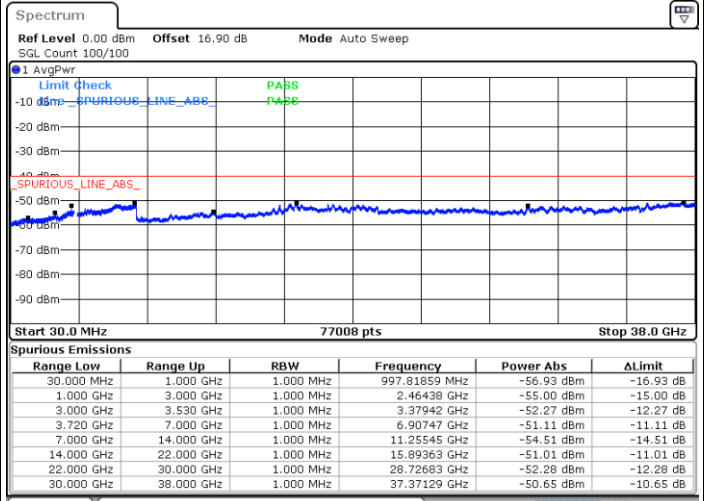
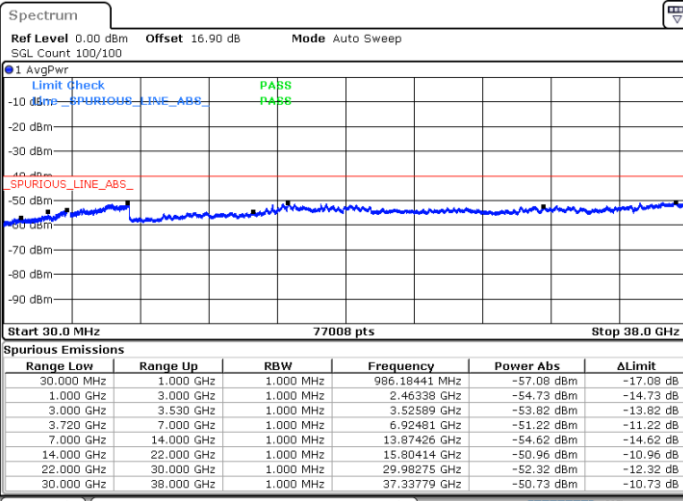


LTE Band 48C / 20MHz+5MHz

256QAM

Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0

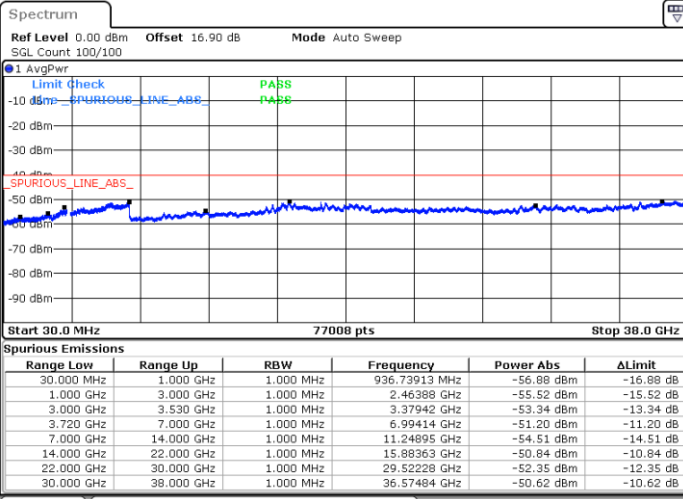


Date: 30.OCT.2020 20:44:30

Date: 30.OCT.2020 20:45:45

Middle Channel / FullRB

N/A



Date: 30.OCT.2020 20:43:15

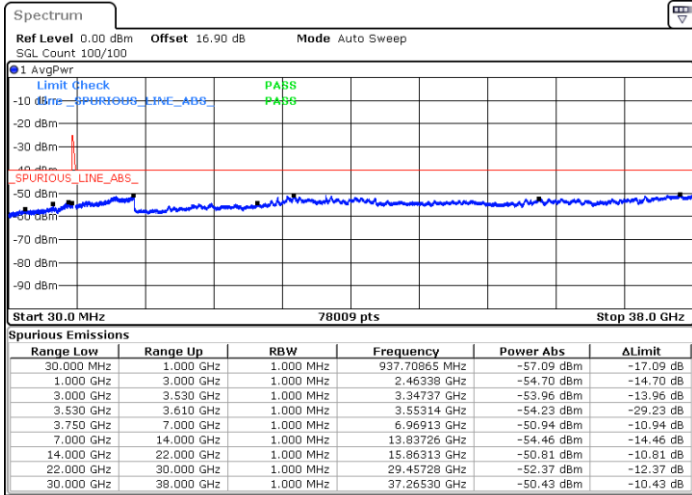


LTE Band 48C / 20MHz+5MHz

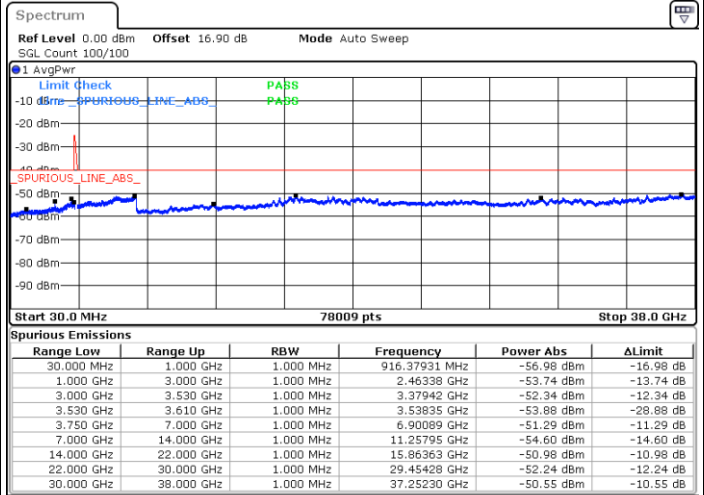
256QAM

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



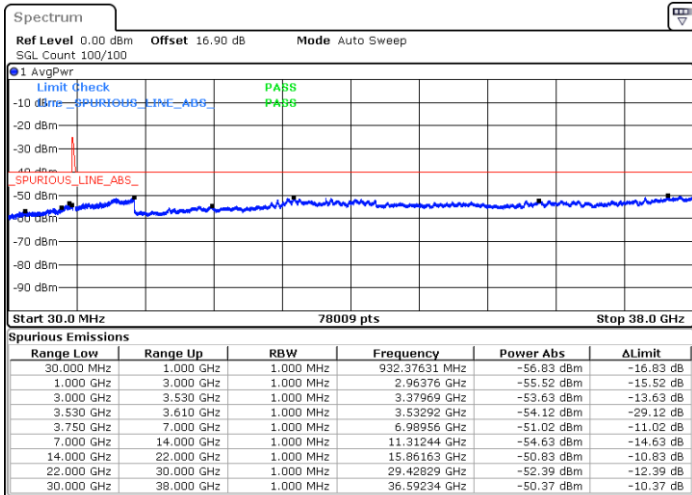
Date: 30.OCT.2020 21:49:25



Date: 30.OCT.2020 21:48:10

Highest Channel / FullIRB

N/A



Date: 30.OCT.2020 21:50:41

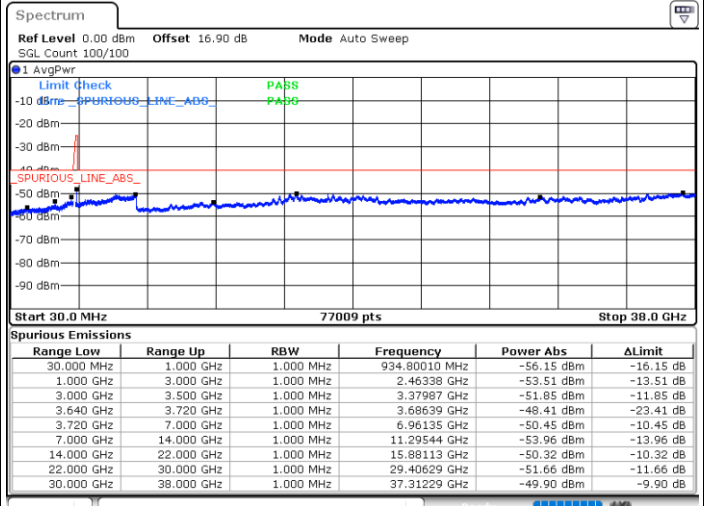
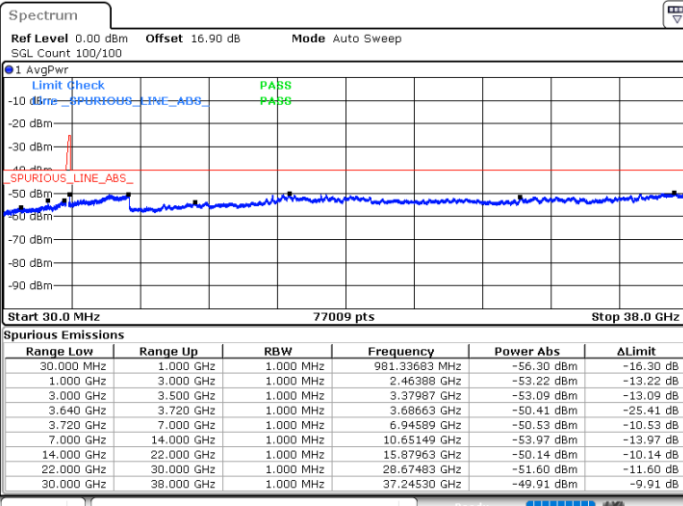


LTE Band 48C / 20MHz+10MHz

256QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0

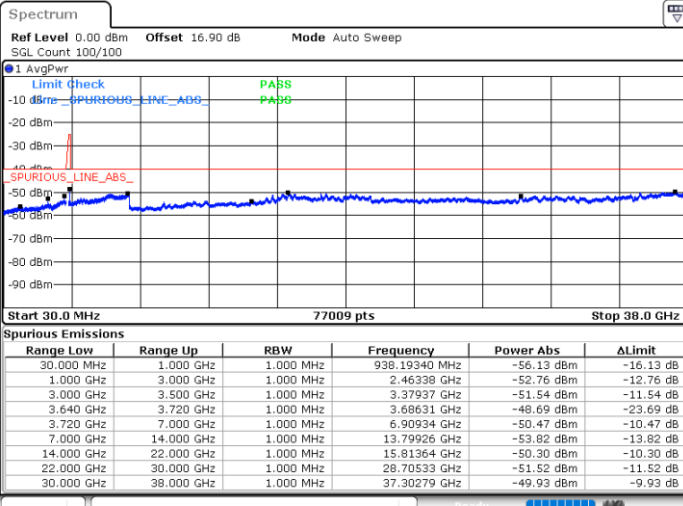


Date: 30.OCT.2020 12:23:30

Date: 30.OCT.2020 12:14:40

Lowest Channel / FullIRB

N/A



Date: 30.OCT.2020 12:24:45

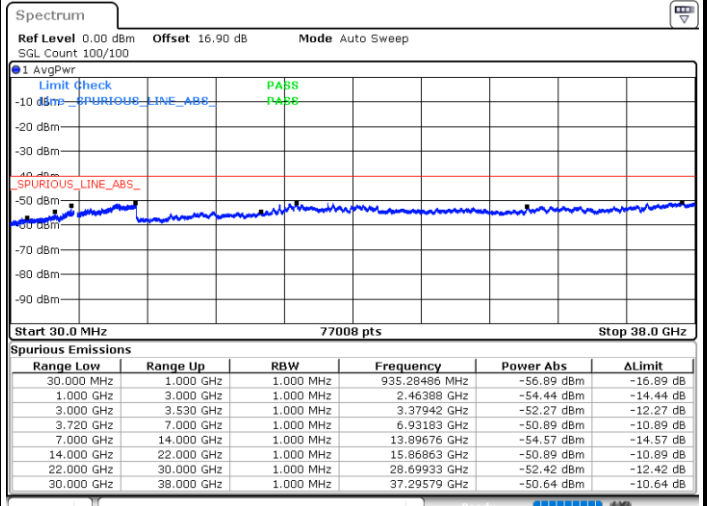
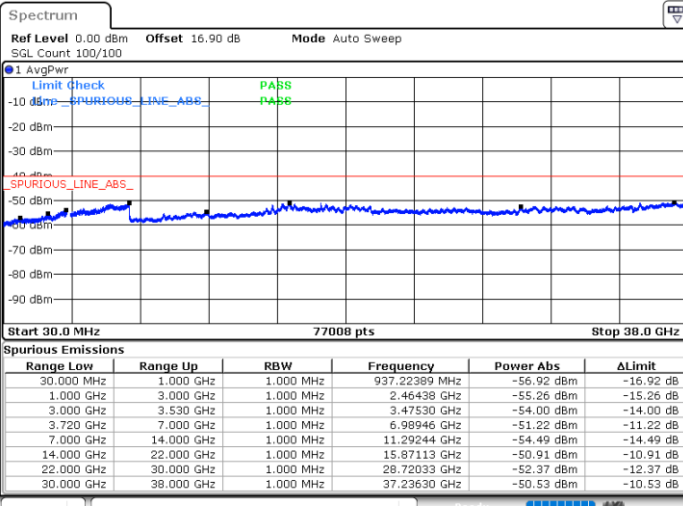


LTE Band 48C / 20MHz+10MHz

256QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0

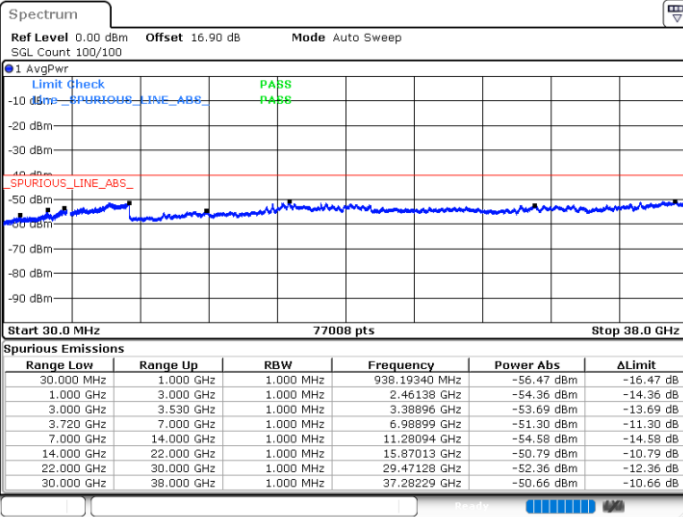


Date: 30.OCT.2020 14:21:32

Date: 30.OCT.2020 14:30:20

Middle Channel / FullRB

N/A



Date: 30.OCT.2020 14:20:17

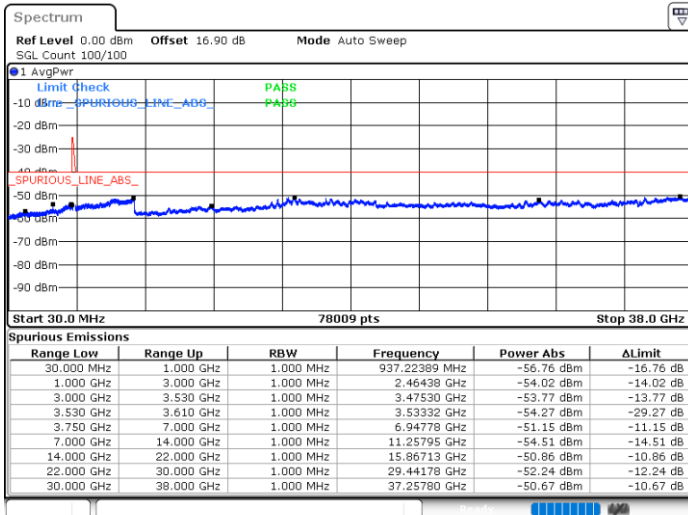


LTE Band 48C / 20MHz+10MHz

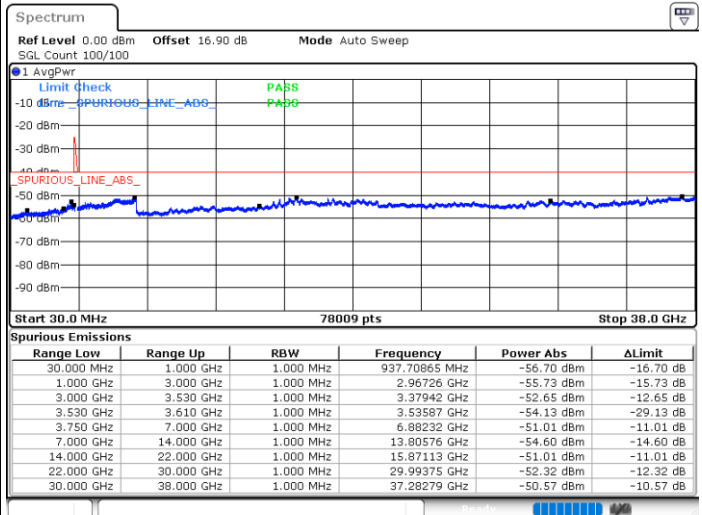
256QAM

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



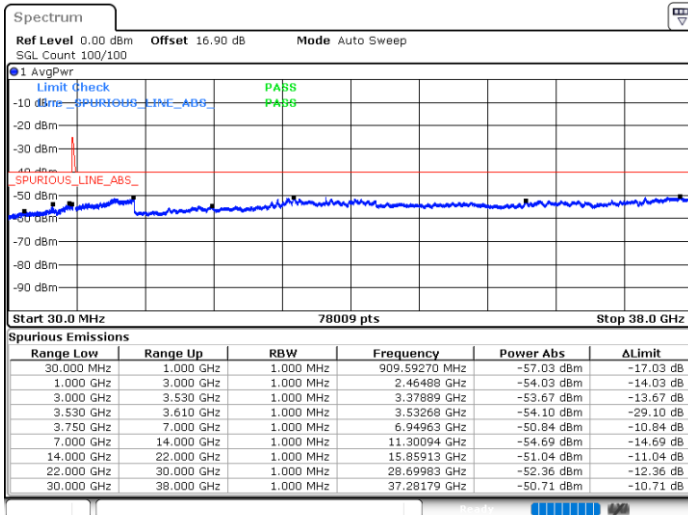
Date: 30.OCT.2020 15:08:46



Date: 30.OCT.2020 15:07:31

Highest Channel / FullRB

N/A



Date: 30.OCT.2020 15:17:38

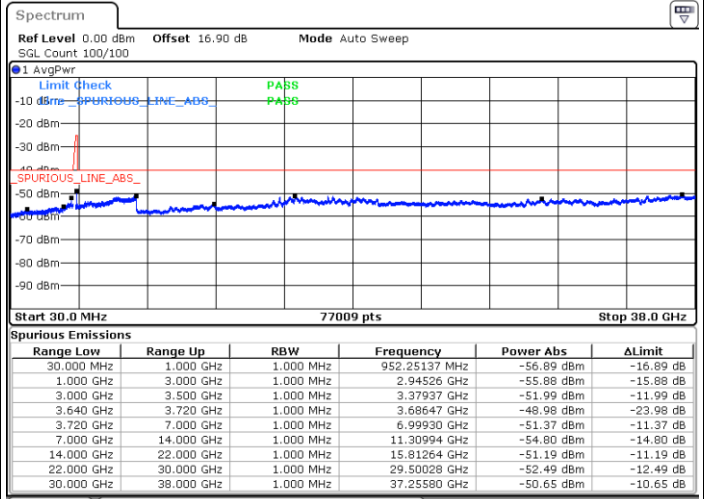
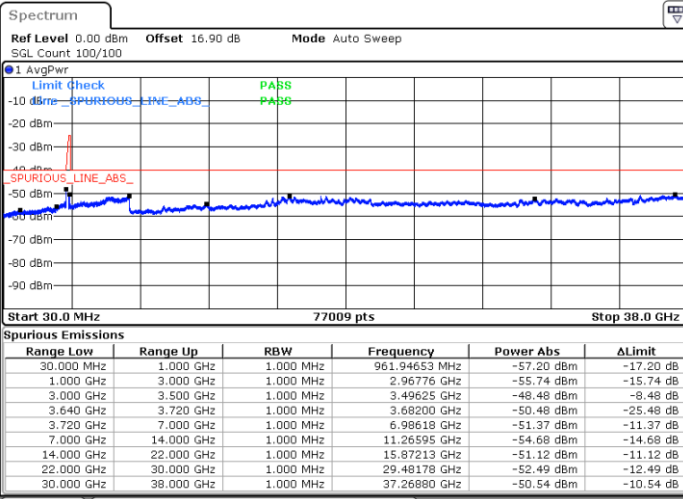


LTE Band 48C / 20MHz+15MHz

256QAM

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0

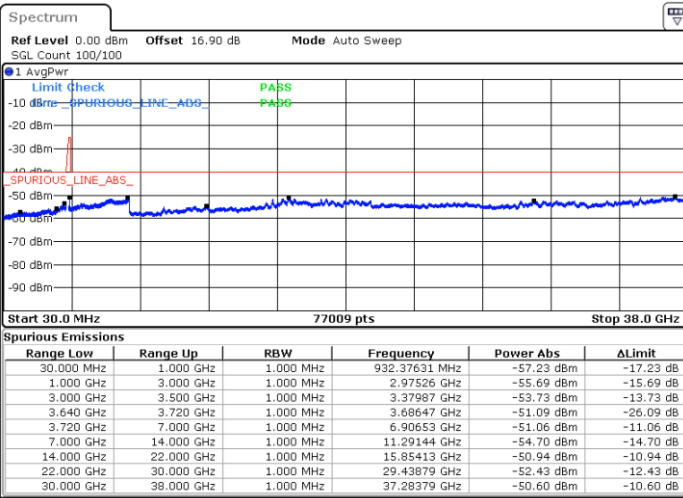


Date: 29.OCT.2020 22:05:00

Date: 29.OCT.2020 21:56:11

Lowest Channel / FullIRB

N/A



Date: 29.OCT.2020 22:06:16

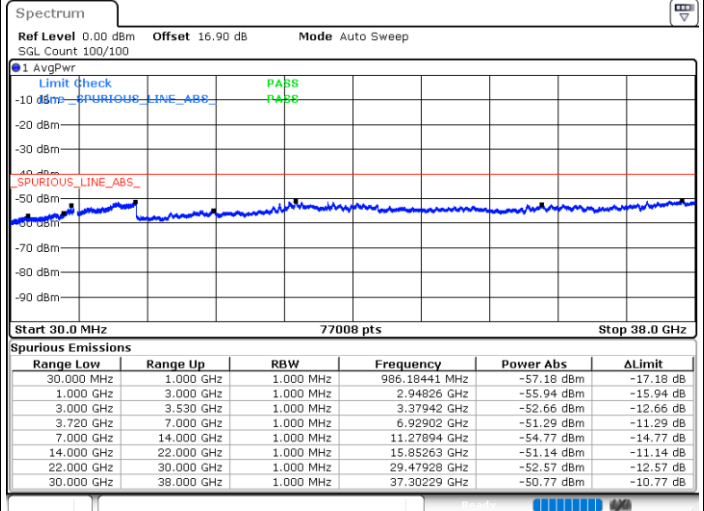
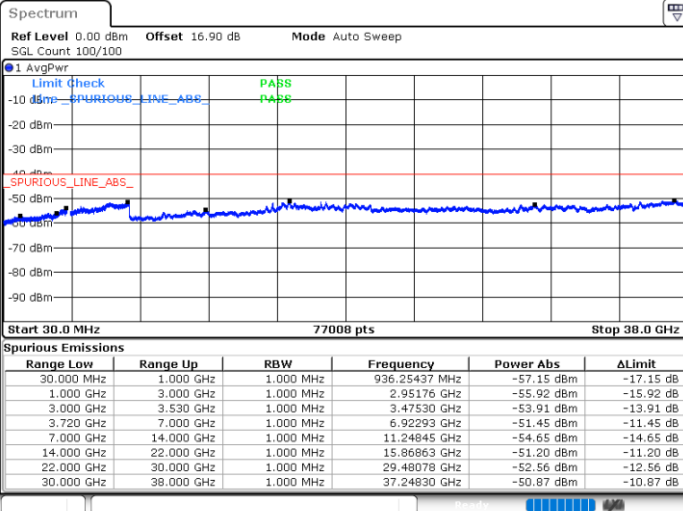


LTE Band 48C / 20MHz+15MHz

256QAM

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0

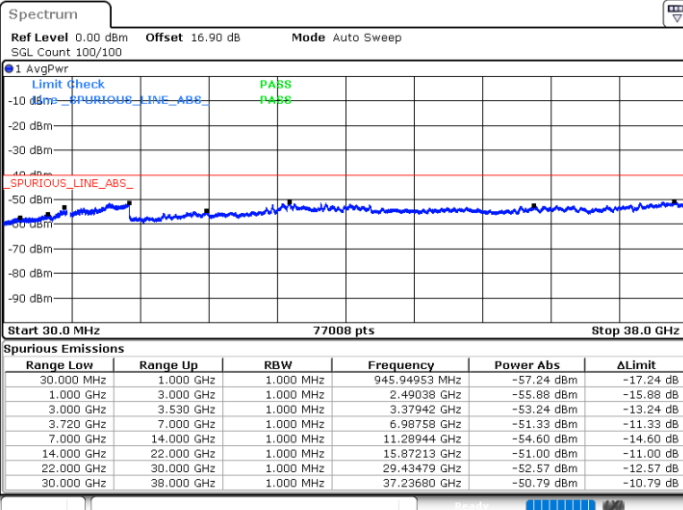


Date: 29.OCT.2020 23:08:13

Date: 29.OCT.2020 23:17:01

Middle Channel / FullIRB

N/A



Date: 29.OCT.2020 23:06:57

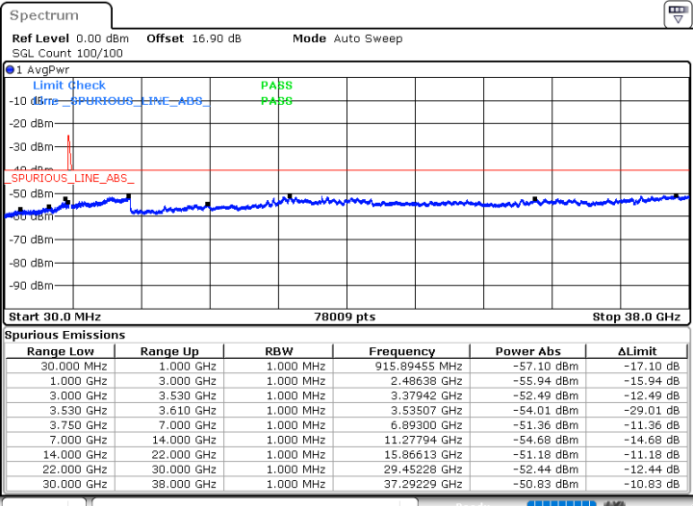
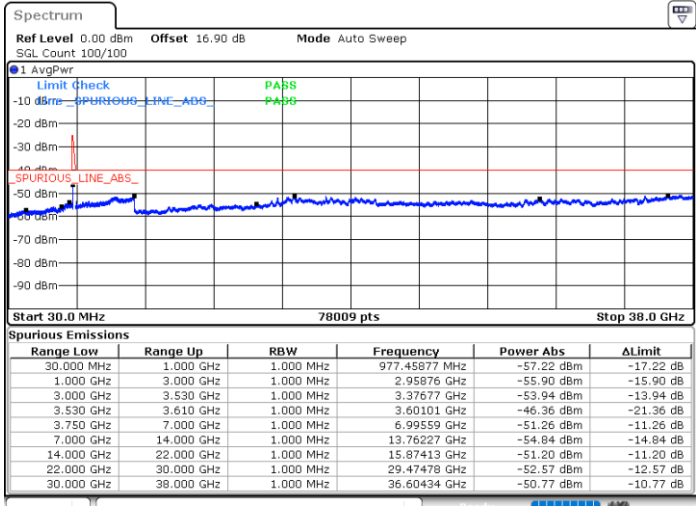


LTE Band 48C / 20MHz+15MHz

256QAM

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0

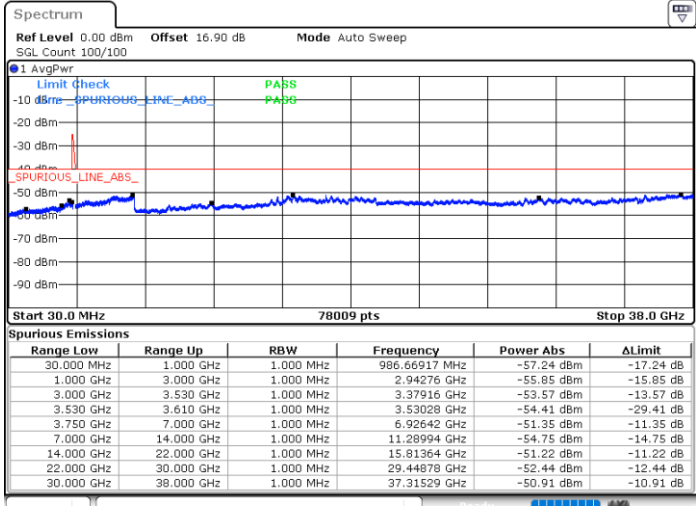


Date: 30.OCT.2020 00:04:43

Date: 30.OCT.2020 00:03:28

Highest Channel / FullIRB

N/A



Date: 30.OCT.2020 00:13:35

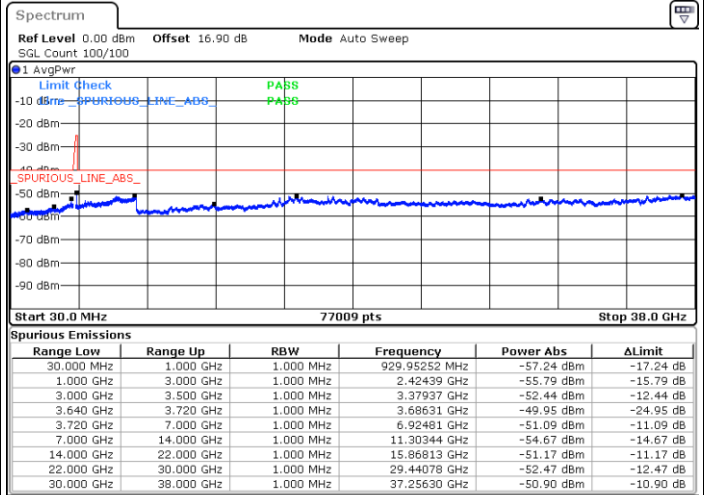
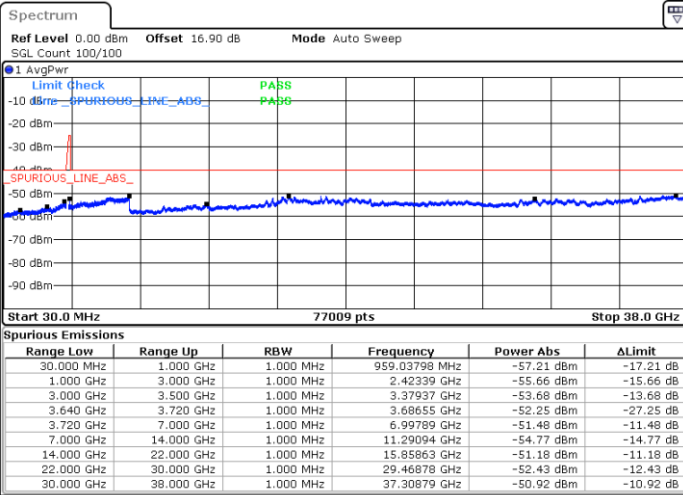


LTE Band 48C / 20MHz+20MHz

256QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

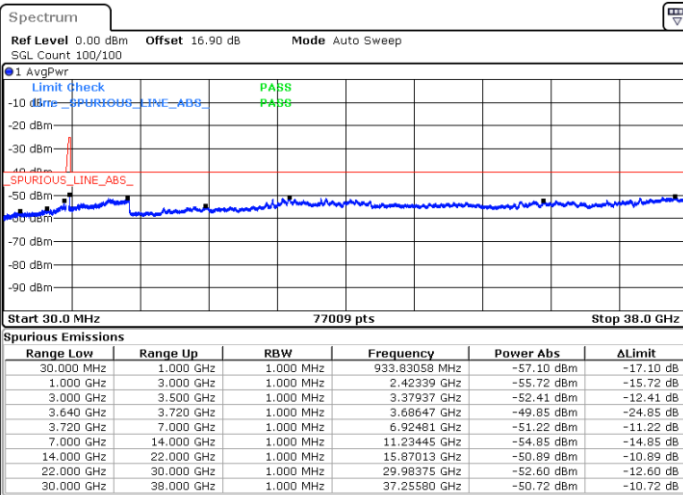


Date: 29.OCT.2020 17:56:45

Date: 29.OCT.2020 17:47:55

Lowest Channel / FullIRB

N/A



Date: 29.OCT.2020 17:58:01

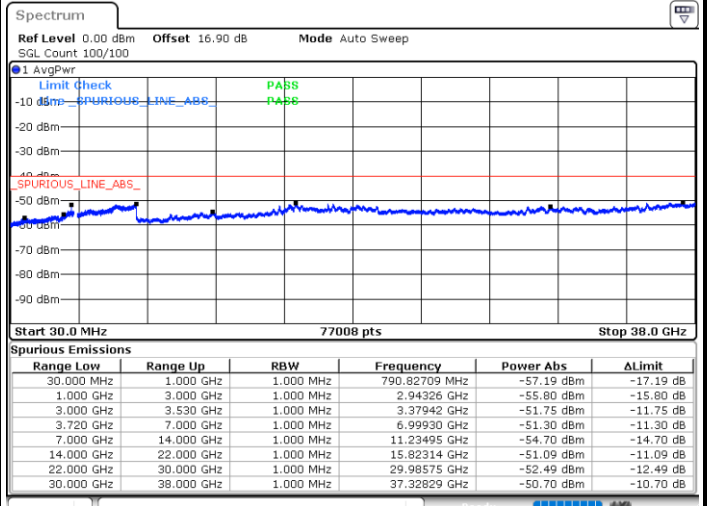
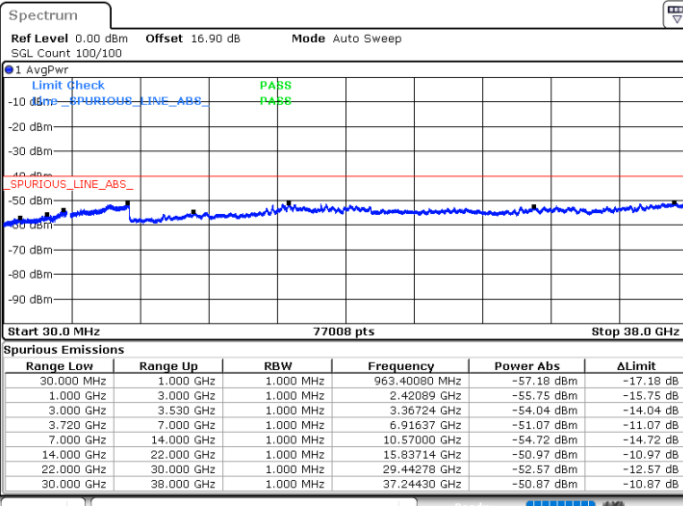


LTE Band 48C / 20MHz+20MHz

256QAM

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0

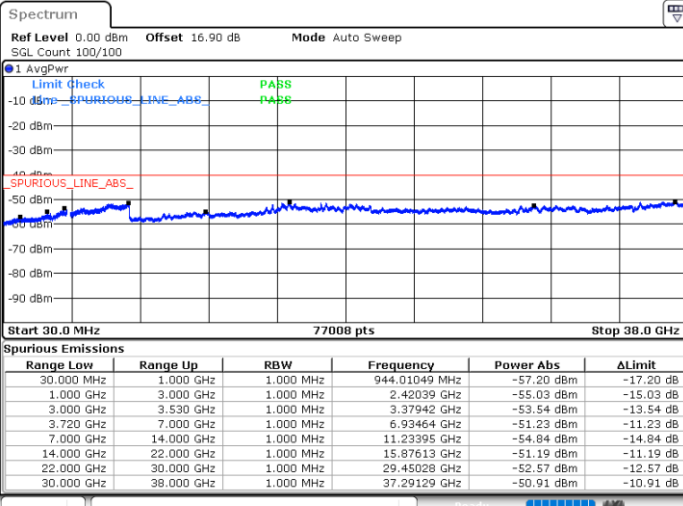


Date: 29.OCT.2020 19:50:06

Date: 29.OCT.2020 19:58:55

Middle Channel / FullRB

N/A



Date: 29.OCT.2020 19:48:51

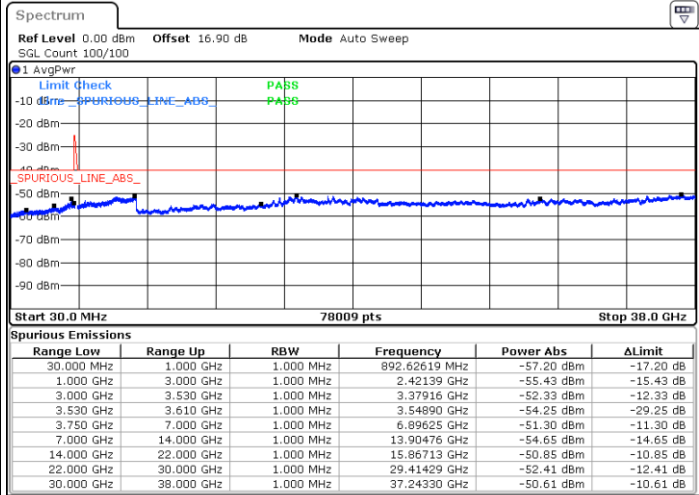
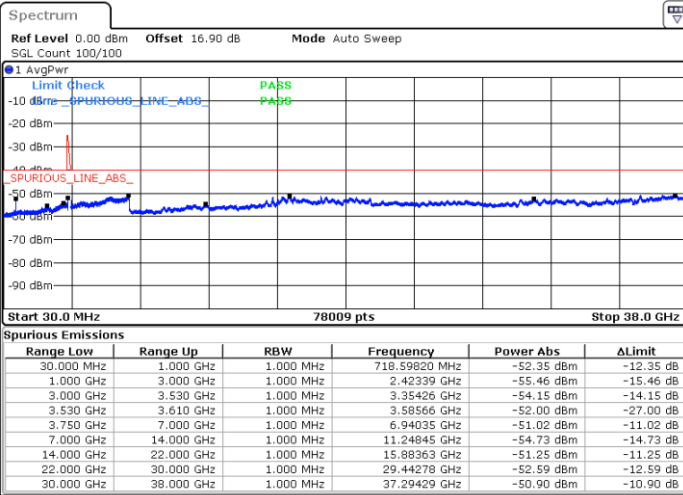


LTE Band 48C / 20MHz+20MHz

256QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0

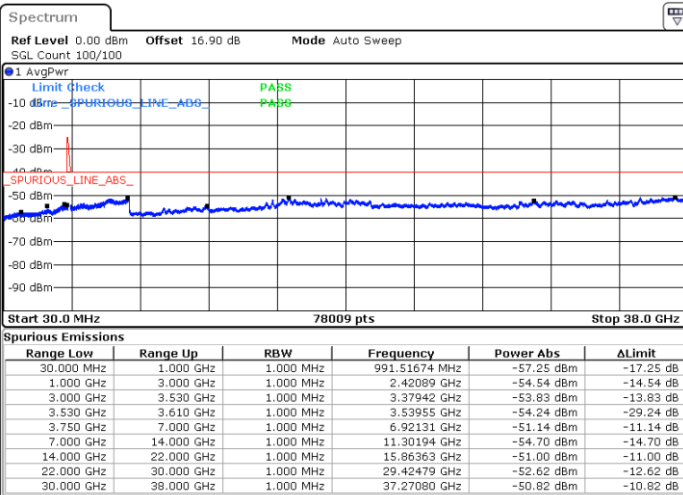


Date: 29.OCT.2020 20:51:28

Date: 29.OCT.2020 20:50:13

Highest Channel / FullIRB

N/A



Date: 29.OCT.2020 21:00:20



Appendix B. Test Results of EIRP and Radiated Test

EIRP

LTE Band 48C_CA / 20 + 20 MHz (GT - LC = 3.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
		Size	Offset	Size	Offset				
Lowest	QPSK	1	99	1	0	18.95	0.0785	22.45	0.1758
Middle		1	99	1	0	18.67	0.0736	22.17	0.1648
Highest		1	99	1	0	19.07	0.0807	22.57	0.1807
Lowest	16QAM	1	99	1	0	18.34	0.0682	21.84	0.1528
Middle		1	99	1	0	17.91	0.0618	21.41	0.1384
Highest		1	99	1	0	18.27	0.0671	21.77	0.1503
Lowest	64QAM	1	99	1	0	16.86	0.0485	20.36	0.1086
Middle		1	99	1	0	16.44	0.0441	19.94	0.0986
Highest		1	99	1	0	16.87	0.0486	20.37	0.1089
Lowest	256QAM	1	99	1	0	14.03	0.0253	17.53	0.0566
Middle		1	99	1	0	13.67	0.0233	17.17	0.0521
Highest		1	99	1	0	14.11	0.0258	17.61	0.0577

LTE Band 48C_CA / 20 + 15 MHz (GT - LC = 3.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
		Size	Offset	Size	Offset				
Lowest	QPSK	1	74	1	0	19.38	0.0867	22.88	0.1941
Middle		1	74	1	0	18.81	0.0760	22.31	0.1702
Highest		1	74	1	0	19.18	0.0828	22.68	0.1854
Lowest	16QAM	1	74	1	0	18.95	0.0785	22.45	0.1758
Middle		1	74	1	0	18.34	0.0682	21.84	0.1528
Highest		1	74	1	0	18.72	0.0745	22.22	0.1667
Lowest	64QAM	1	74	1	0	17.56	0.0570	21.06	0.1276
Middle		1	74	1	0	17.00	0.0501	20.50	0.1122
Highest		1	74	1	0	17.30	0.0537	20.80	0.1202
Lowest	256QAM	1	74	1	0	14.61	0.0289	18.11	0.0647
Middle		1	74	1	0	14.05	0.0254	17.55	0.0569
Highest		1	74	1	0	14.36	0.0273	17.86	0.0611



LTE Band 48C_CA / 15 + 20 MHz (GT - LC = 3.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
		Size	Offset	Size	Offset				
Lowest	QPSK	1	74	1	0	19.31	0.0853	22.81	0.1910
Middle		1	74	1	0	18.21	0.0662	21.71	0.1483
Highest		1	74	1	0	18.57	0.0719	22.07	0.1611
Lowest	16QAM	1	74	1	0	18.88	0.0773	22.38	0.1730
Middle		1	74	1	0	17.87	0.0612	21.37	0.1371
Highest		1	74	1	0	18.17	0.0656	21.67	0.1469
Lowest	64QAM	1	74	1	0	17.55	0.0569	21.05	0.1274
Middle		1	74	1	0	16.50	0.0447	20.00	0.1000
Highest		1	74	1	0	16.85	0.0484	20.35	0.1084
Lowest	256QAM	1	74	1	0	14.62	0.0290	18.12	0.0649
Middle		1	74	1	0	13.48	0.0223	16.98	0.0499
Highest		1	74	1	0	13.82	0.0241	17.32	0.0540

LTE Band 48C_CA / 20 + 10 MHz (GT - LC = 3.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
		Size	Offset	Size	Offset				
Lowest	QPSK	1	99	1	0	18.84	0.0766	22.34	0.1714
Middle		1	99	1	0	18.36	0.0685	21.86	0.1535
Highest		1	99	1	0	18.64	0.0731	22.14	0.1637
Lowest	16QAM	1	99	1	0	18.45	0.0700	21.95	0.1567
Middle		1	99	1	0	17.96	0.0625	21.46	0.1400
Highest		1	99	1	0	18.24	0.0667	21.74	0.1493
Lowest	64QAM	1	99	1	0	17.11	0.0514	20.61	0.1151
Middle		1	99	1	0	16.60	0.0457	20.10	0.1023
Highest		1	99	1	0	16.87	0.0486	20.37	0.1089
Lowest	256QAM	1	99	1	0	14.15	0.0260	17.65	0.0582
Middle		1	99	1	0	13.63	0.0231	17.13	0.0516
Highest		1	99	1	0	13.95	0.0248	17.45	0.0556



LTE Band 48C_CA / 10 + 20 MHz (GT - LC = 3.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
		Size	Offset	Size	Offset				
Lowest	QPSK	1	49	1	0	18.99	0.0793	22.49	0.1774
Middle		1	49	1	0	18.46	0.0701	21.96	0.1570
Highest		1	49	1	0	18.70	0.0741	22.20	0.1660
Lowest	16QAM	1	49	1	0	18.64	0.0731	22.14	0.1637
Middle		1	49	1	0	18.07	0.0641	21.57	0.1435
Highest		1	49	1	0	18.36	0.0685	21.86	0.1535
Lowest	64QAM	1	49	1	0	17.28	0.0535	20.78	0.1197
Middle		1	49	1	0	16.67	0.0465	20.17	0.1040
Highest		1	49	1	0	16.96	0.0497	20.46	0.1112
Lowest	256QAM	1	49	1	0	14.27	0.0267	17.77	0.0598
Middle		1	49	1	0	13.73	0.0236	17.23	0.0528
Highest		1	49	1	0	13.97	0.0249	17.47	0.0558

LTE Band 48C_CA / 20 + 5 MHz (GT - LC = 3.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
		Size	Offset	Size	Offset				
Lowest	QPSK	1	99	1	0	18.96	0.0787	22.46	0.1762
Middle		1	99	1	0	18.42	0.0695	21.92	0.1556
Highest		1	99	1	0	18.66	0.0735	22.16	0.1644
Lowest	16QAM	1	99	1	0	18.63	0.0729	22.13	0.1633
Middle		1	99	1	0	18.01	0.0632	21.51	0.1416
Highest		1	99	1	0	18.28	0.0673	21.78	0.1507
Lowest	64QAM	1	99	1	0	17.23	0.0528	20.73	0.1183
Middle		1	99	1	0	16.71	0.0469	20.21	0.1050
Highest		1	99	1	0	16.94	0.0494	20.44	0.1107
Lowest	256QAM	1	99	1	0	14.32	0.0270	17.82	0.0605
Middle		1	99	1	0	13.74	0.0237	17.24	0.0530
Highest		1	99	1	0	13.94	0.0248	17.44	0.0555



LTE Band 48C_CA / 5 + 20 MHz (GT - LC = 3.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB		Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
		Size	Offset	Size	Offset				
Lowest	QPSK	1	24	1	0	19.04	0.0802	22.54	0.1795
Middle		1	24	1	0	18.39	0.0690	21.89	0.1545
Highest		1	24	1	0	18.73	0.0746	22.23	0.1671
Lowest	16QAM	1	24	1	0	18.75	0.0750	22.25	0.1679
Middle		1	24	1	0	18.07	0.0641	21.57	0.1435
Highest		1	24	1	0	18.36	0.0685	21.86	0.1535
Lowest	64QAM	1	24	1	0	17.40	0.0550	20.90	0.1230
Middle		1	24	1	0	16.82	0.0481	20.32	0.1076
Highest		1	24	1	0	17.00	0.0501	20.50	0.1122
Lowest	256QAM	1	24	1	0	14.39	0.0275	17.89	0.0615
Middle		1	24	1	0	13.77	0.0238	17.27	0.0533
Highest		1	24	1	0	14.03	0.0253	17.53	0.0566



EIRP Power

LTE Band 48C / Conducted Power (dBm/10MHz)													
BW	20 + 20 MHz				20 + 15 MHz				15 + 20 MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	
Lowest CH	18.95	18.34	16.86	14.03	19.38	18.95	17.56	14.61	19.31	18.88	17.55	14.62	
Middle CH	18.67	17.91	16.44	13.67	18.81	18.34	17.00	14.05	18.21	17.87	16.50	13.48	
Highest CH	19.07	18.27	16.87	14.11	19.18	18.72	17.30	14.36	18.57	18.17	16.85	13.82	
LTE Band 48C / Conducted Power (dBm/10MHz)													
BW	20 + 10 MHz				10 + 20 MHz				20 + 5 MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	
Lowest CH	18.84	18.45	17.11	14.15	18.99	18.64	17.28	14.27	18.96	18.63	17.23	14.32	
Middle CH	18.36	17.96	16.60	13.63	18.46	18.07	16.67	13.73	18.42	18.01	16.71	13.74	
Highest CH	18.64	18.24	16.87	13.95	18.70	18.36	16.96	13.97	18.66	18.28	16.94	13.94	
LTE Band 48C / Conducted Power (dBm/10MHz)													
BW	5 + 20 MHz												
Mod.	QPSK	16QAM	64QAM	256QAM									
Lowest CH	19.04	18.75	17.40	14.39									
Middle CH	18.39	18.07	16.82	13.77									
Highest CH	18.73	18.36	17.00	14.03									

LTE Band 48C / EIRP Power (dBm/10MHz)													
BW	20 + 20 MHz				20 + 15 MHz				15 + 20 MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	
Lowest CH	22.45	21.84	20.36	17.53	22.88	22.45	21.06	18.11	22.81	22.38	21.05	18.12	
Middle CH	22.17	21.41	19.94	17.17	22.31	21.84	20.5	17.55	21.71	21.37	20	16.98	
Highest CH	22.57	21.77	20.37	17.61	22.68	22.22	20.8	17.86	22.07	21.67	20.35	17.32	
LTE Band 48C / EIRP Power (dBm/10MHz)													
BW	20 + 10 MHz				10 + 20 MHz				20 + 5 MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM	
Lowest CH	22.34	21.95	20.61	17.65	22.49	22.14	20.78	17.77	22.46	22.13	20.73	17.82	
Middle CH	21.86	21.46	20.1	17.13	21.96	21.57	20.17	17.23	21.92	21.51	20.21	17.24	
Highest CH	22.14	21.74	20.37	17.45	22.20	21.86	20.46	17.47	22.16	21.78	20.44	17.44	
LTE Band 48C / EIRP Power (dBm/10MHz)													
BW	5 + 20 MHz												
Mod.	QPSK	16QAM	64QAM	256QAM									
Lowest CH	22.54	22.25	20.9	17.89									
Middle CH	21.89	21.57	20.32	17.27									
Highest CH	22.23	21.86	20.5	17.53									
Antenna Gain	3.5 dBi												
Limit	23dBm / 10MHz												
Result	Pass												



Radiated Spurious Emission

LTE Band 48C

LTE Band 48C / 20MHz+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	7140	-58.29	-40	-18.29	-60.42	-68.17	1.80	11.68	H
	10710	-58.05	-40	-18.05	-60.34	-66.45	2.50	10.90	H
	14279	-56.37	-40	-16.37	-63.48	-65.04	2.86	11.53	H
	21413	-55.11	-40	-15.11	-76.68	-71.86	1.95	18.70	H
	24982	-53.78	-40	-13.78	-78.44	-69.97	2.08	18.27	H
	28551	-53.04	-40	-13.04	-78.53	-70.27	2.31	19.54	H
	7140	-58.02	-40	-18.02	-59.8	-67.90	1.80	11.68	V
	10710	-58.09	-40	-18.09	-60.14	-66.49	2.50	10.90	V
	14279	-57.04	-40	-17.04	-63.72	-65.71	2.86	11.53	V
	21413	-47.57	-40	-7.57	-69.07	-64.32	1.95	18.70	V
	24982	-52.28	-40	-12.28	-78.09	-68.47	2.08	18.27	V
	28551	-49.47	-40	-9.47	-76.83	-66.70	2.31	19.54	V
Middle	7250	-58.48	-40	-18.48	-60.84	-68.13	1.86	11.50	H
	10875	-58.02	-40	-18.02	-60.35	-66.34	2.59	10.90	H
	14498	-57.53	-40	-17.53	-64.83	-65.68	2.85	11.00	H
	18120	-54.32	-40	-14.32	-72.45	-70.53	1.77	17.98	H
	21744	-53.79	-40	-13.79	-75.36	-70.58	2.01	18.80	H
	25368	-52.56	-40	-12.56	-77.81	-69.23	2.15	18.82	H
	29000	-52.83	-40	-12.83	-78.04	-69.46	2.37	19.00	H
	7250	-58.33	-40	-18.33	-60.44	-67.98	1.86	11.50	V
	10875	-57.66	-40	-17.66	-59.79	-65.98	2.59	10.90	V
	14498	-58.31	-40	-18.31	-64.71	-66.46	2.85	11.00	V
	18120	-54.99	-40	-14.99	-72.2	-71.20	1.77	17.98	V
	21744	-51.20	-40	-11.20	-72.76	-67.99	2.01	18.80	V
	25368	-51.31	-40	-11.31	-77.84	-67.98	2.15	18.82	V
	29000	-49.19	-40	-9.19	-75.94	-65.82	2.37	19.00	V



LTE Band 48C / 20MHz+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)
Highest	7360	-58.48	-40	-18.48	-60.82	-67.89	1.91	11.32	H
	11040	-58.21	-40	-18.21	-60.67	-66.52	2.63	10.95	H
	14718	-56.85	-40	-16.85	-65.64	-65.64	2.91	11.70	H
	18395	-54.65	-40	-14.65	-72.95	-70.71	1.86	17.92	H
	22074	-51.17	-40	-11.17	-73.29	-67.96	2.08	18.87	H
	25753	-52.35	-40	-12.35	-78.31	-69.36	2.04	19.05	H
	29432	-52.17	-40	-12.17	-76.91	-69.27	2.16	19.26	H
	7360	-58.44	-40	-18.44	-60.59	-67.85	1.91	11.32	V
	11040	-58.44	-40	-18.44	-60.73	-66.75	2.63	10.95	V
	14718	-57.83	-40	-17.83	-64.98	-66.62	2.91	11.70	V
	18395	-55.38	-40	-15.38	-72.8	-71.44	1.86	17.92	V
	22074	-45.06	-40	-5.06	-67.18	-61.85	2.08	18.87	V
	25753	-50.80	-40	-10.80	-77.95	-67.81	2.04	19.05	V
	29432	-47.07	-40	-7.07	-73.41	-64.17	2.16	19.26	V

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

Appendix C. Setup Photographs

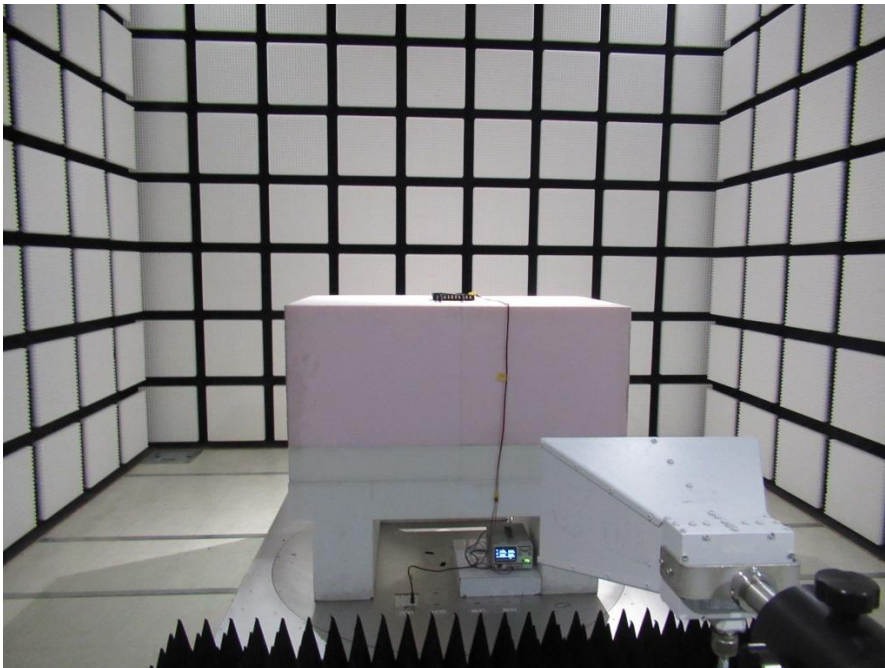
<Radiated Emission>

Ant. Horizontal

LF

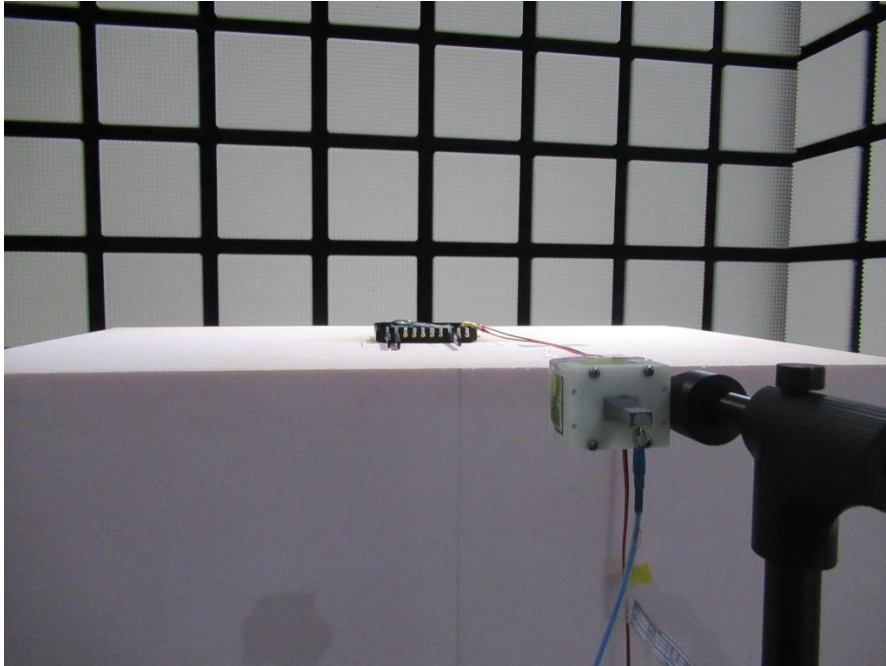


HF





SHF



—————THE END—————