

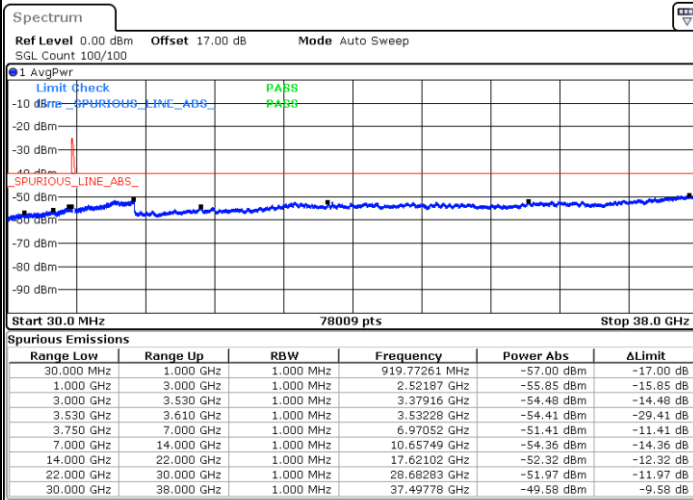


LTE Band 48C / 10MHz+20MHz

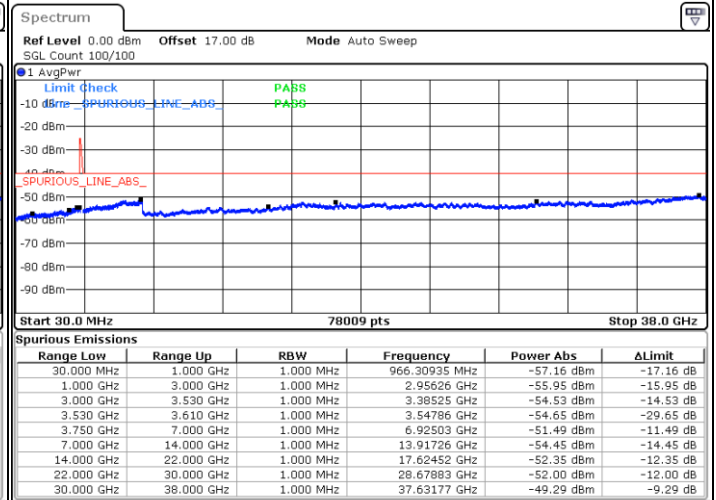
64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB49 and 1RB0



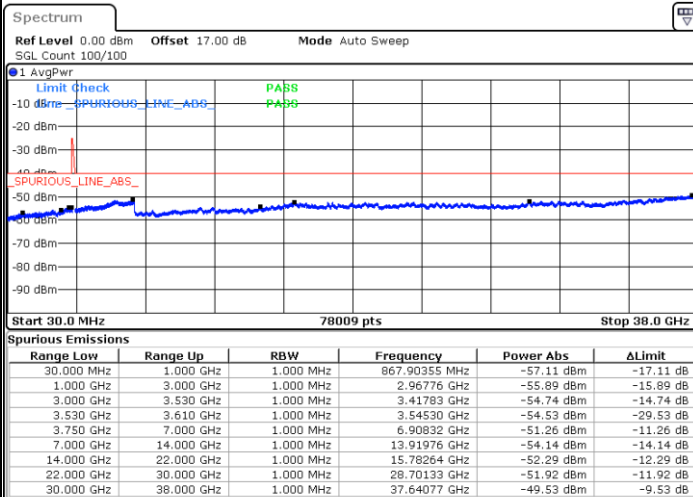
Date: 13.JUN.2020 11:31:23



Date: 13.JUN.2020 11:30:07

Highest Channel / FullIRB

N/A



Date: 13.JUN.2020 11:37:46

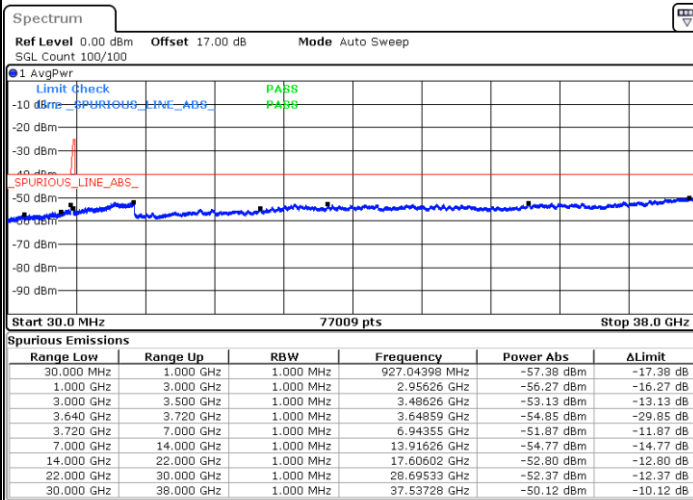


LTE Band 48C / 15MHz+20MHz

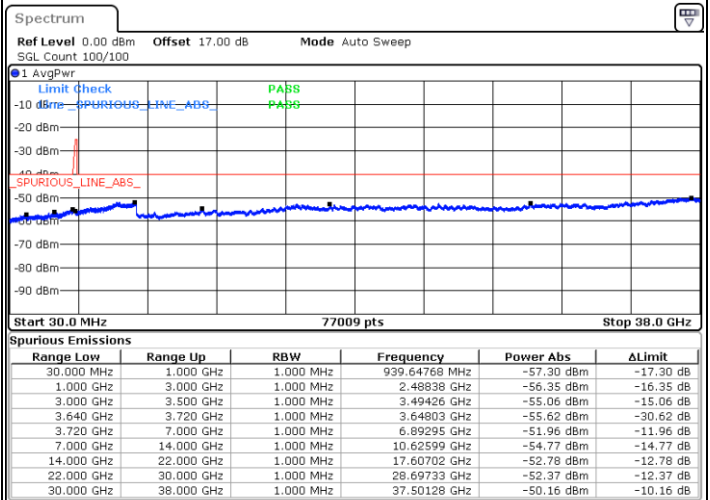
64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0



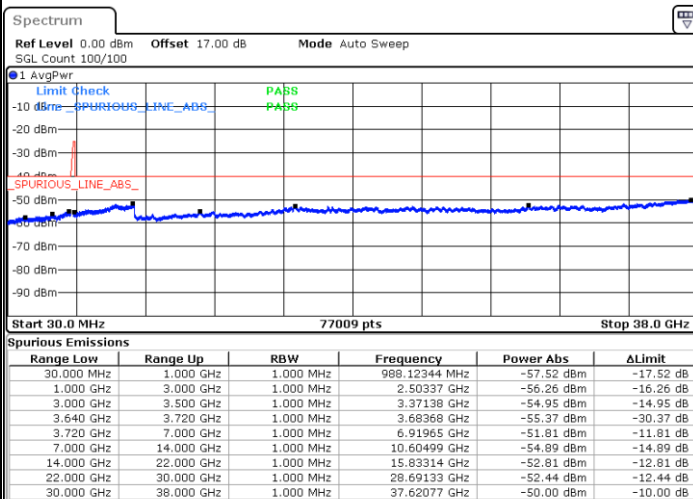
Date: 13.JUN.2020 04:08:45



Date: 13.JUN.2020 04:02:23

Lowest Channel / FullRB

N/A



Date: 13.JUN.2020 04:10:01

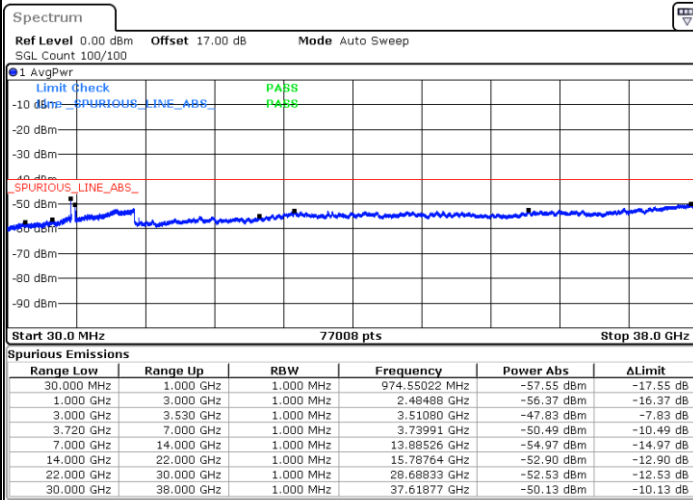


LTE Band 48C / 15MHz+20MHz

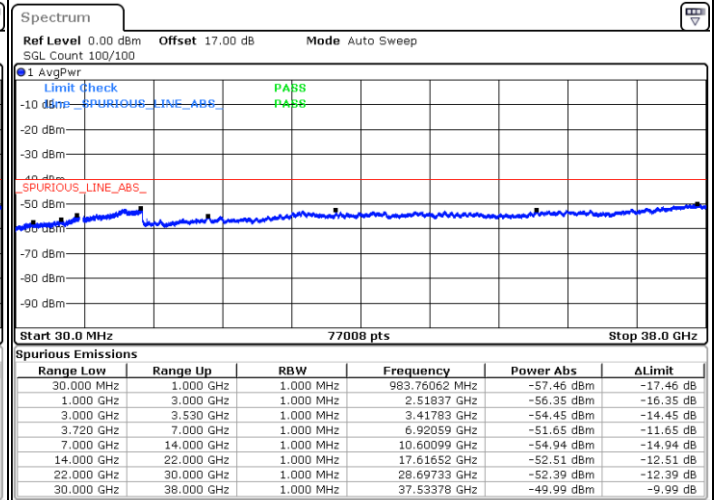
64QAM

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0



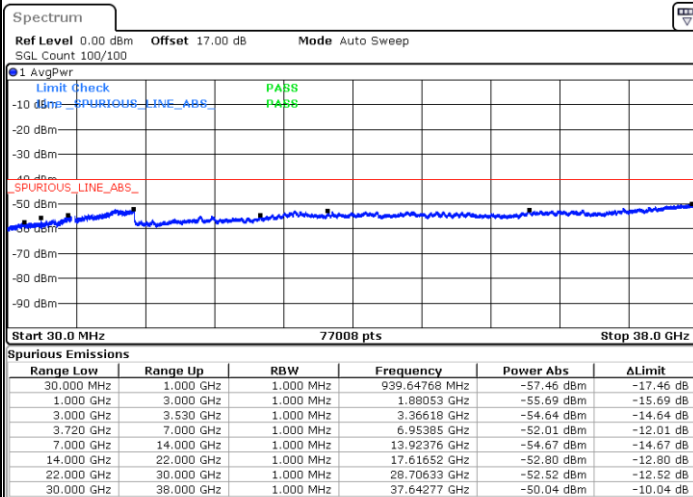
Date: 13.JUN.2020 04:49:02



Date: 13.JUN.2020 04:55:23

Middle Channel / FullIRB

N/A



Date: 13.JUN.2020 04:44:36

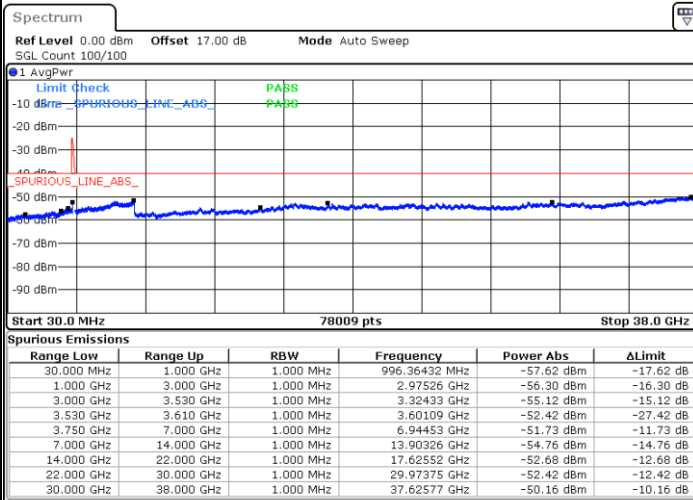


LTE Band 48C / 15MHz+20MHz

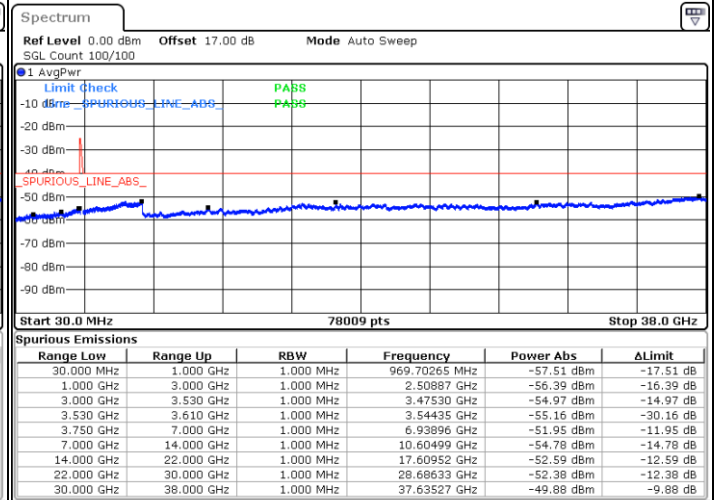
64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



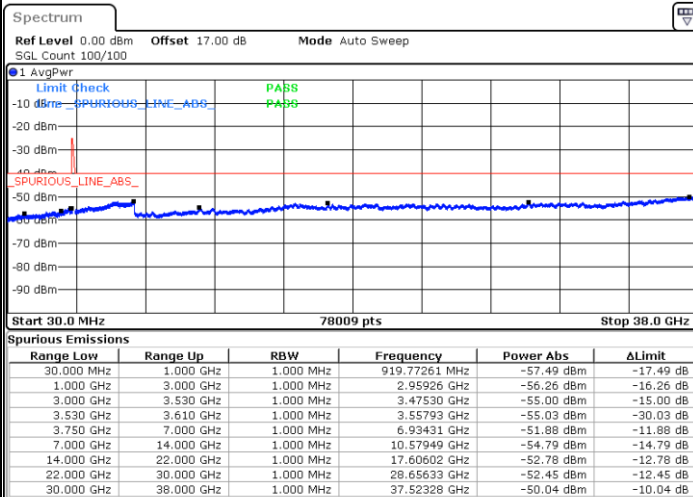
Date: 13.JUN.2020 05:36:14



Date: 13.JUN.2020 05:31:04

Highest Channel / FullRB

N/A



Date: 13.JUN.2020 05:42:38

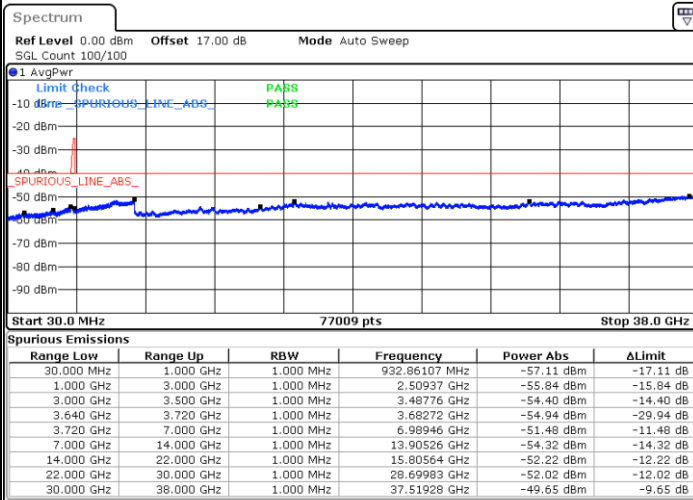


LTE Band 48C / 20MHz+5MHz

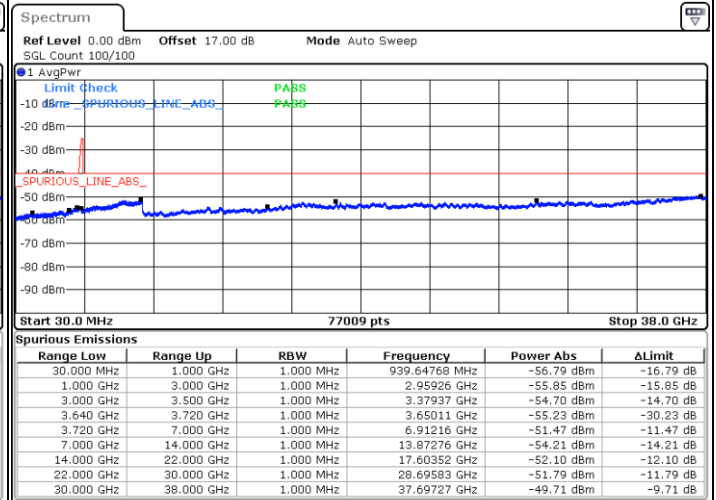
64QAM

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB99 and 1RB0



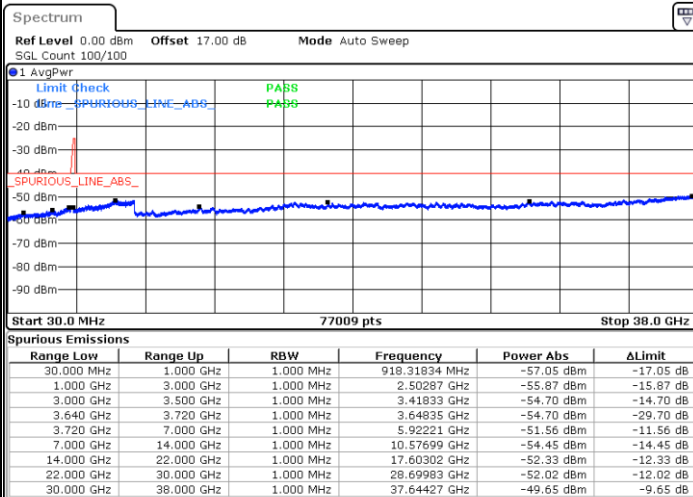
Date: 13.JUN.2020 12:58:37



Date: 13.JUN.2020 12:50:21

Lowest Channel / FullIRB

N/A



Date: 13.JUN.2020 12:59:53

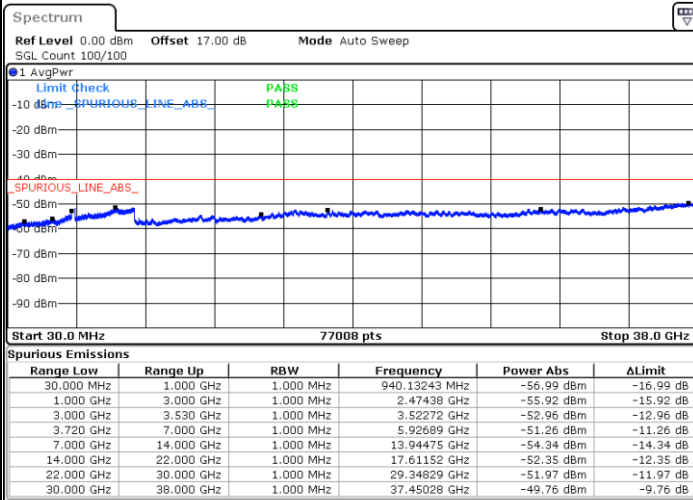


LTE Band 48C / 20MHz+5MHz

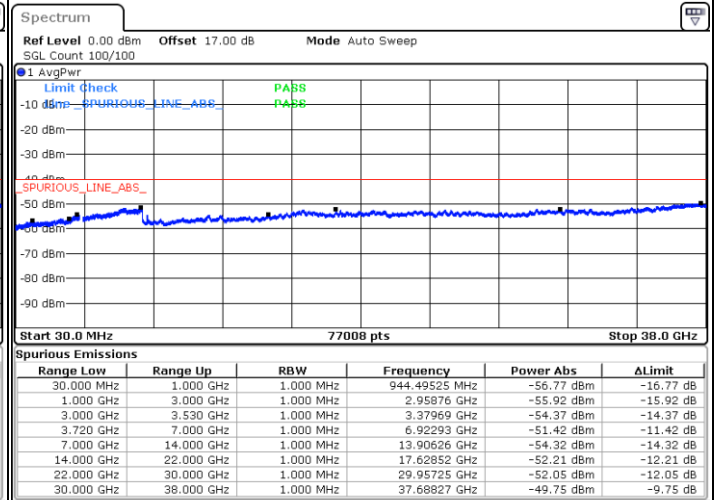
64QAM

Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB99 and 1RB0



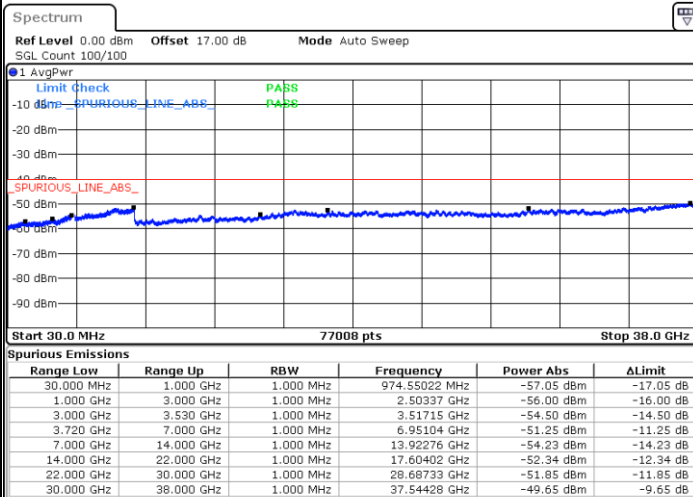
Date: 13.JUN.2020 13:28:45



Date: 13.JUN.2020 13:56:11

Middle Channel / FullIRB

N/A



Date: 13.JUN.2020 13:27:28

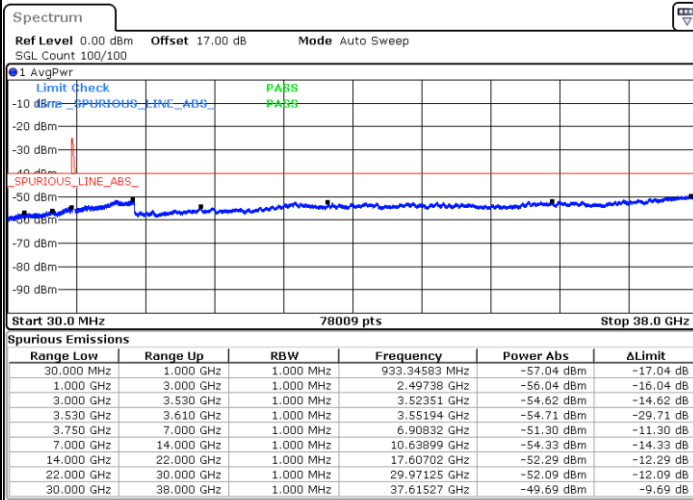


LTE Band 48C / 20MHz+5MHz

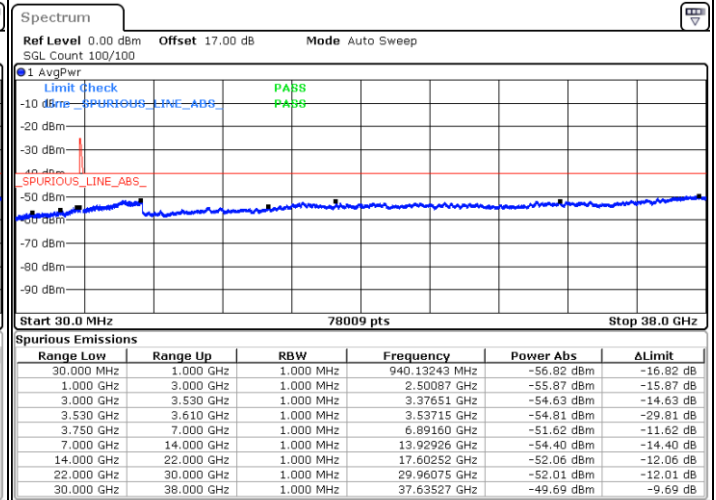
64QAM

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB99 and 1RB0



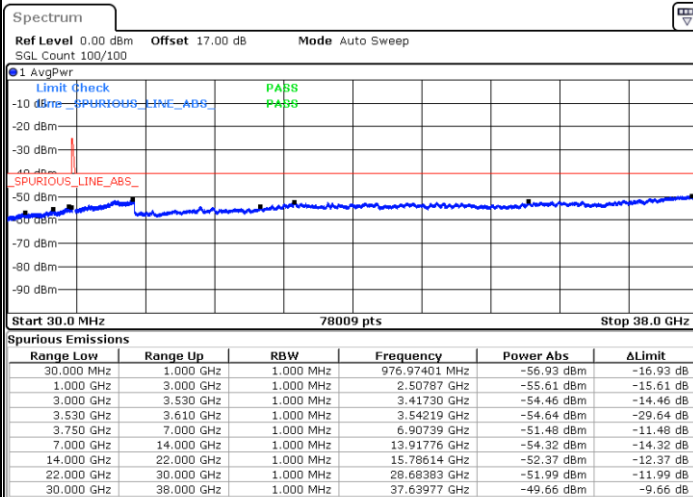
Date: 13.JUN.2020 14:25:33



Date: 13.JUN.2020 14:24:17

Highest Channel / FullIRB

N/A



Date: 13.JUN.2020 14:31:57

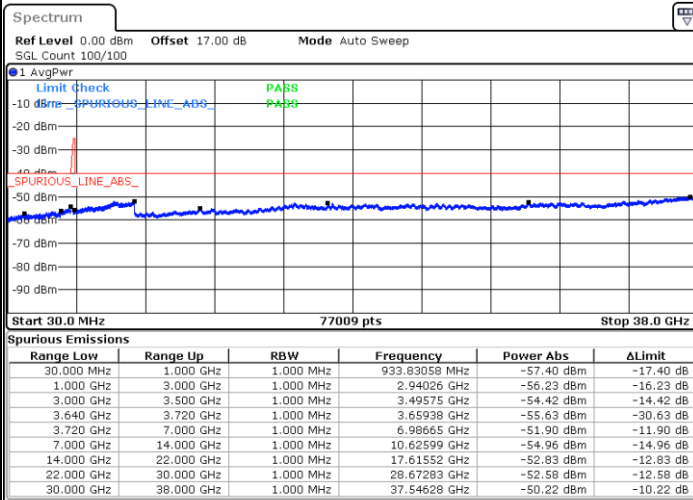


LTE Band 48C / 20MHz+10MHz

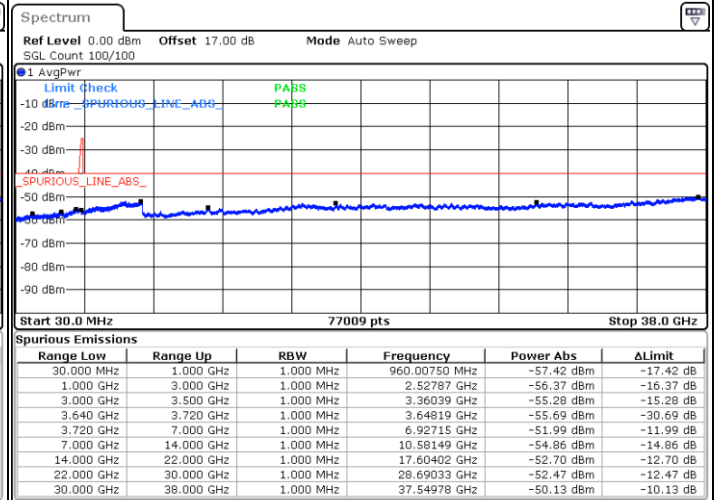
64QAM

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0



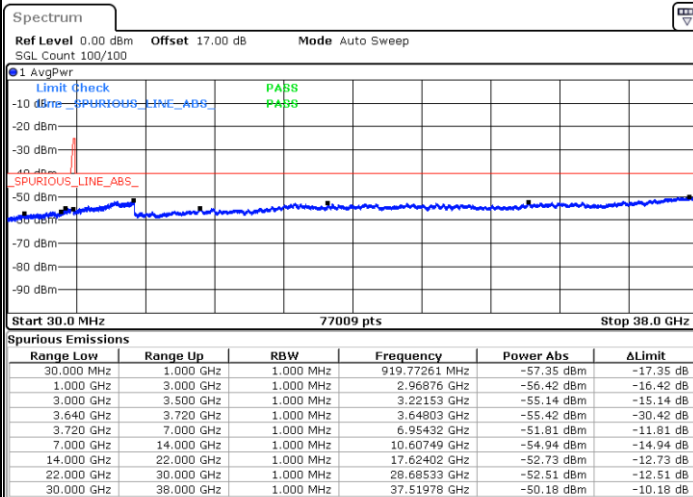
Date: 13.JUN.2020 06:25:25



Date: 13.JUN.2020 06:19:03

Lowest Channel / FullIRB

N/A



Date: 13.JUN.2020 06:44:15

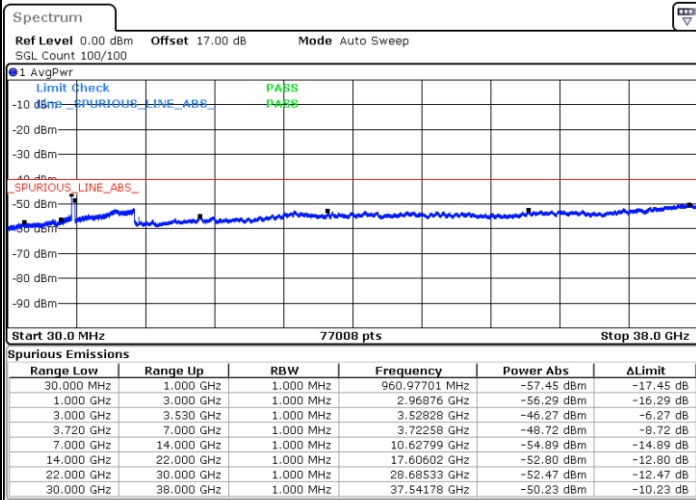


LTE Band 48C / 20MHz+10MHz

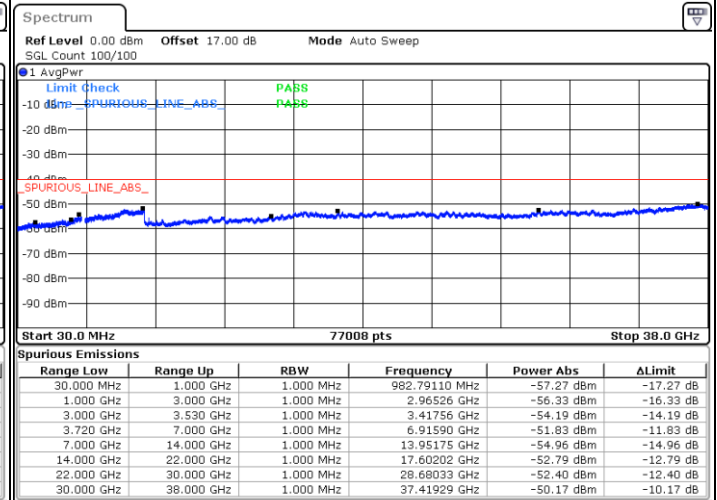
64QAM

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



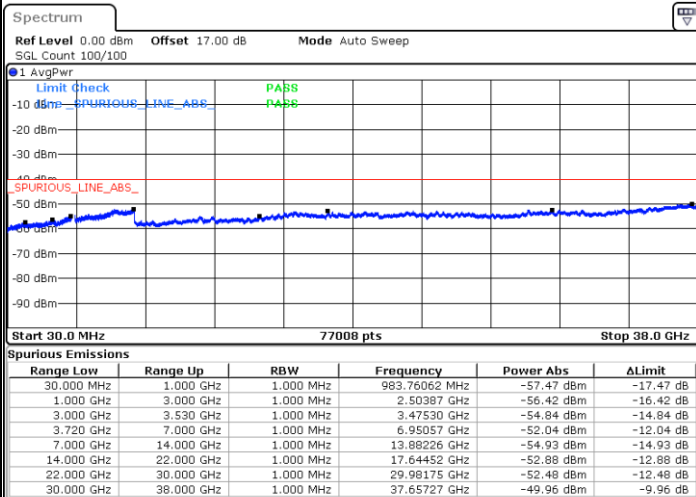
Date: 13.JUN.2020 07:26:59



Date: 13.JUN.2020 07:37:24

Middle Channel / FullIRB

N/A



Date: 13.JUN.2020 07:25:43

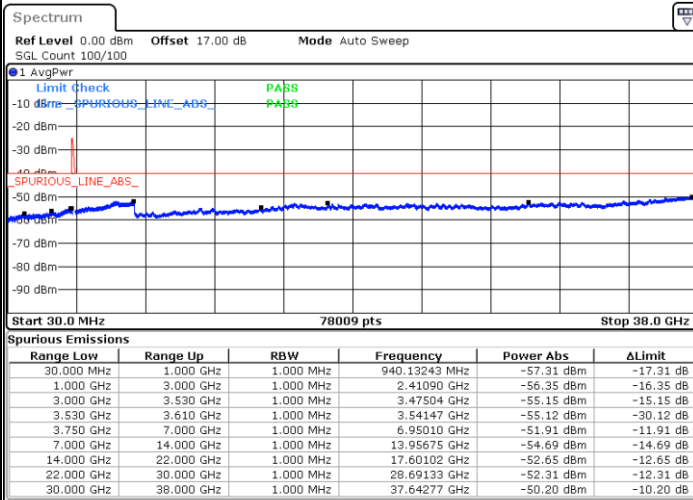


LTE Band 48C / 20MHz+10MHz

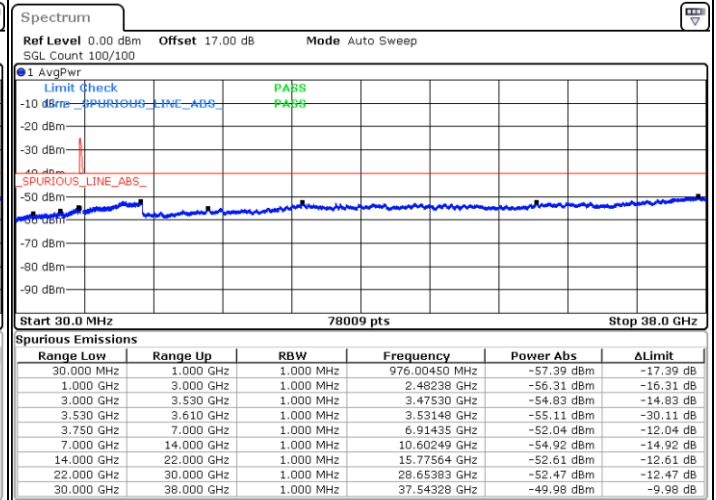
64QAM

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



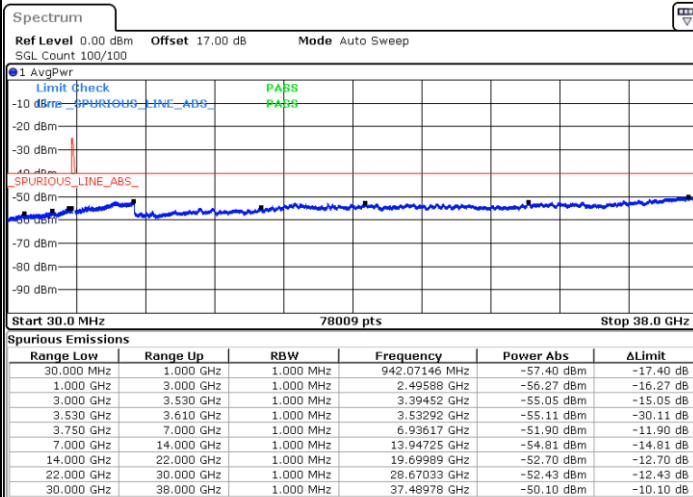
Date: 13.JUN.2020 08:07:03



Date: 13.JUN.2020 08:05:48

Highest Channel / FullIRB

N/A



Date: 13.JUN.2020 08:13:27

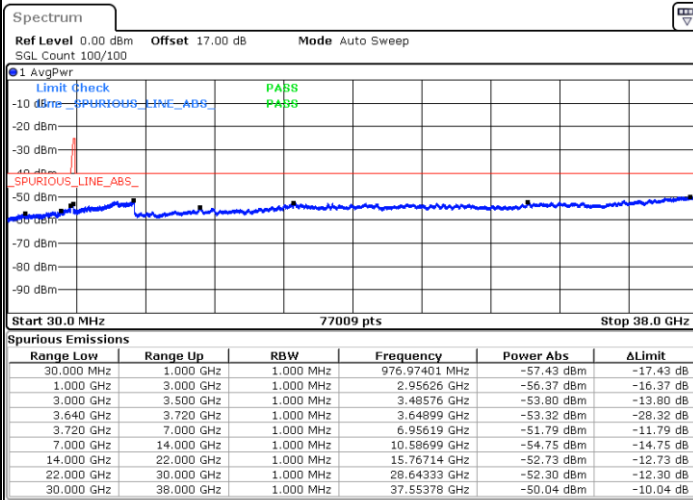


LTE Band 48C / 20MHz+15MHz

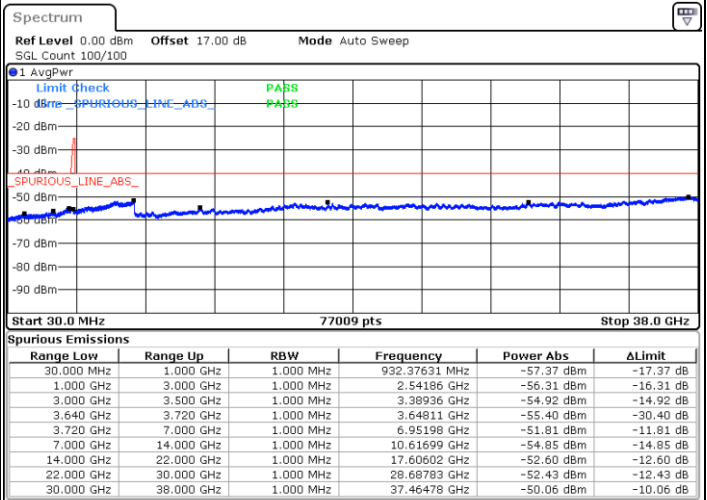
64QAM

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0



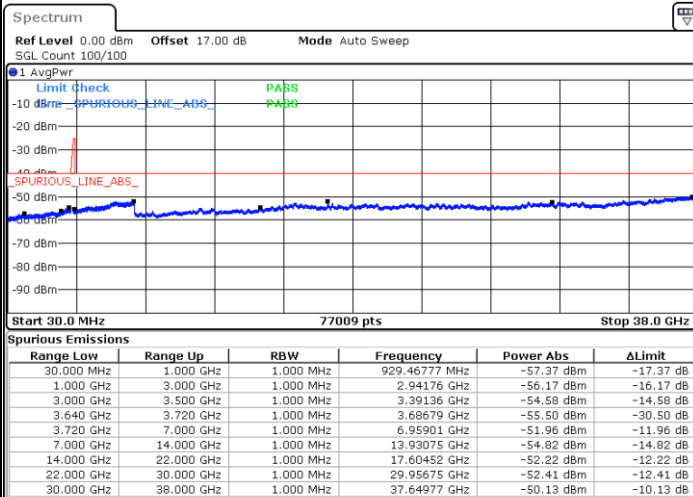
Date: 13.JUN.2020 01:11:07



Date: 13.JUN.2020 01:04:46

Lowest Channel / FullIRB

N/A



Date: 13.JUN.2020 01:12:24

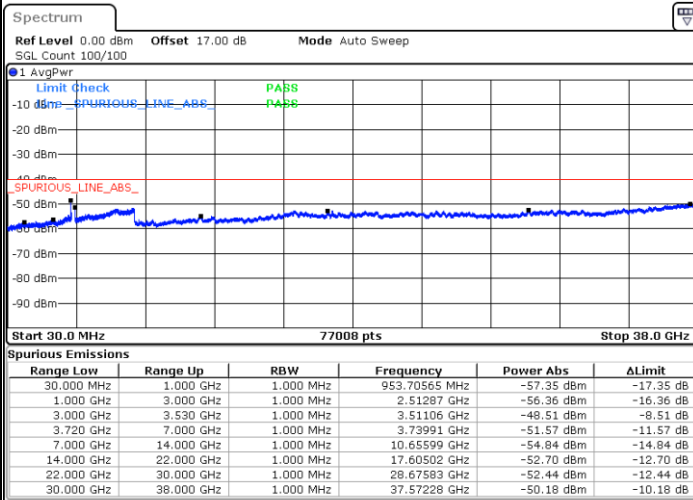


LTE Band 48C / 20MHz+15MHz

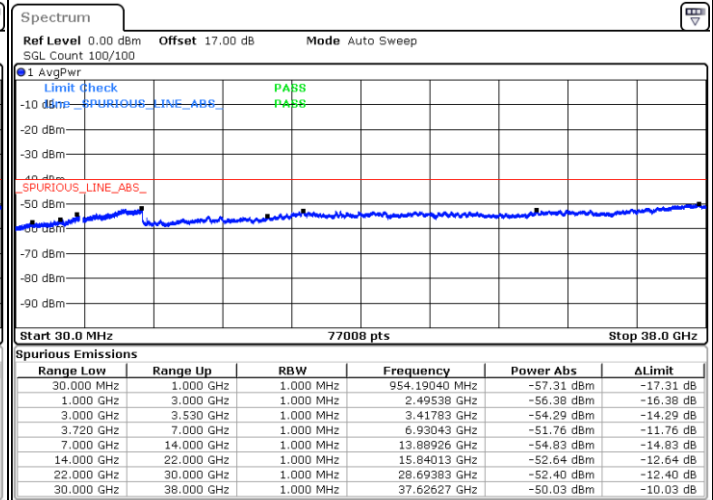
64QAM

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



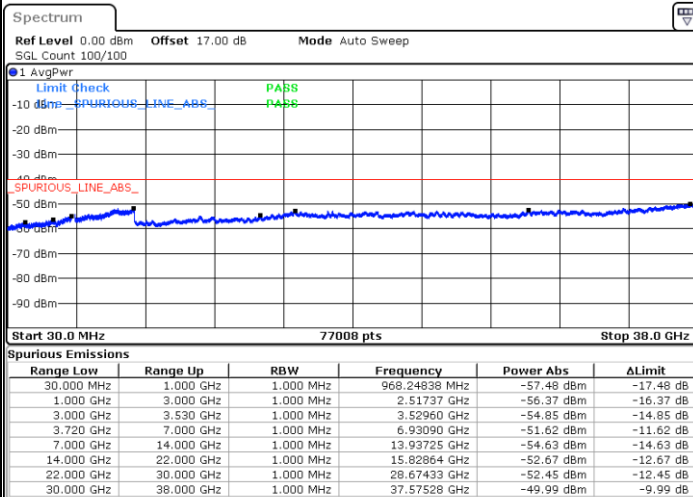
Date: 13.JUN.2020 01:59:57



Date: 13.JUN.2020 02:06:17

Middle Channel / FullIRB

N/A



Date: 13.JUN.2020 01:56:57

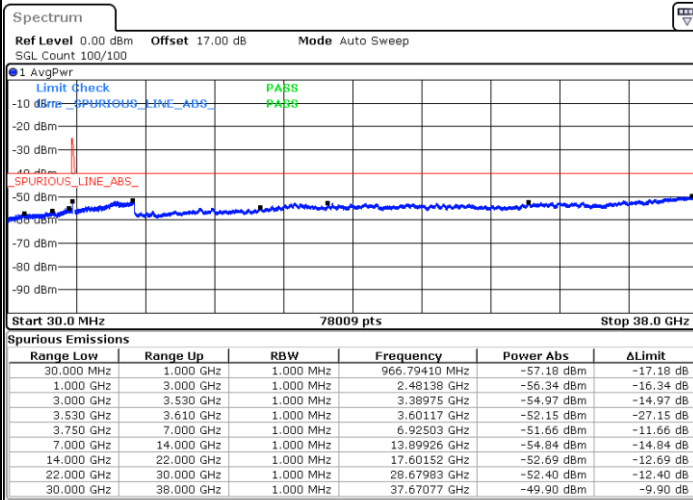


LTE Band 48C / 20MHz+15MHz

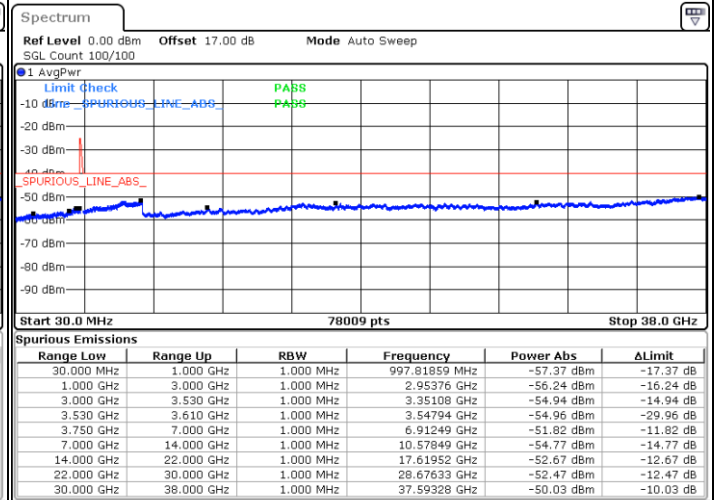
64QAM

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



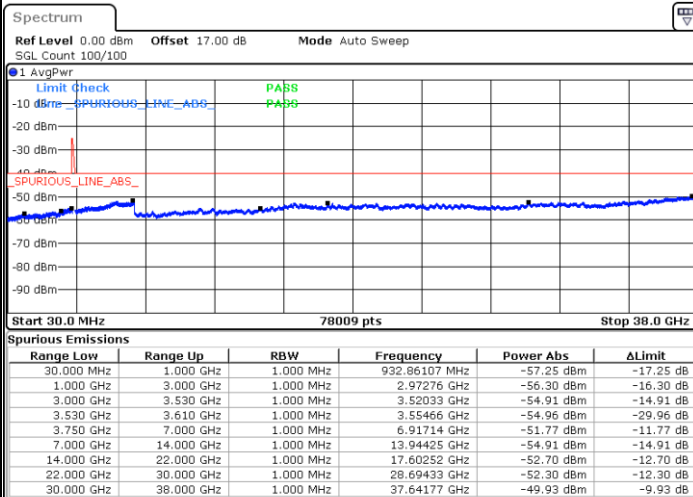
Date: 13.JUN.2020 03:01:17



Date: 13.JUN.2020 02:58:53

Highest Channel / FullRB

N/A



Date: 13.JUN.2020 03:07:41

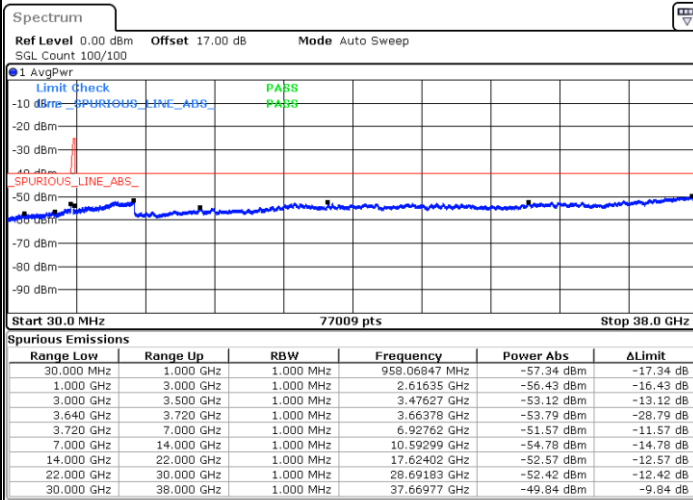


LTE Band 48C / 20MHz+20MHz

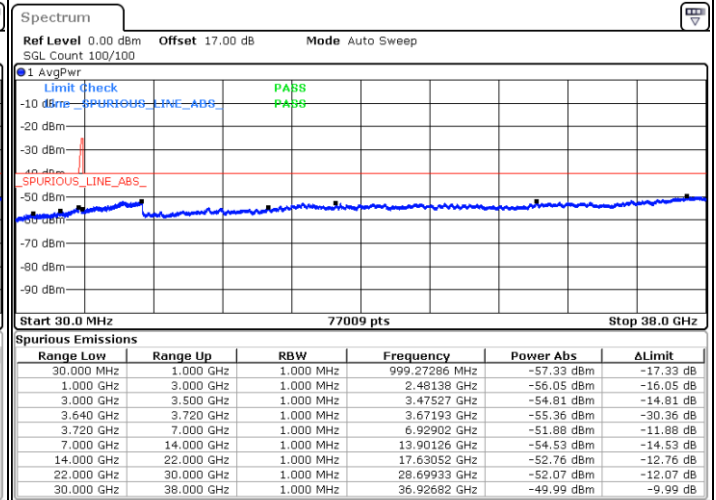
64QAM

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0



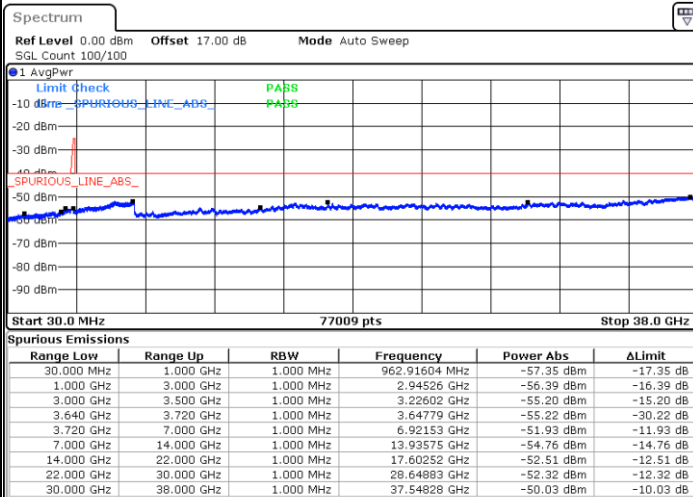
Date: 12.JUN.2020 23:25:33



Date: 12.JUN.2020 23:19:12

Lowest Channel / FullIRB

N/A



Date: 12.JUN.2020 23:26:50

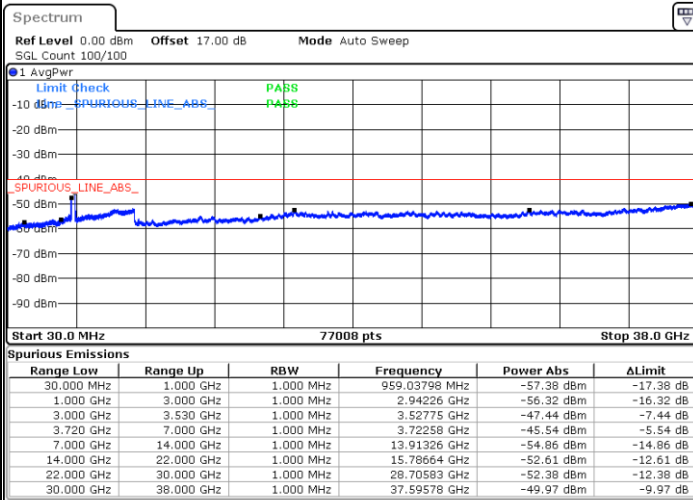


LTE Band 48C / 20MHz+20MHz

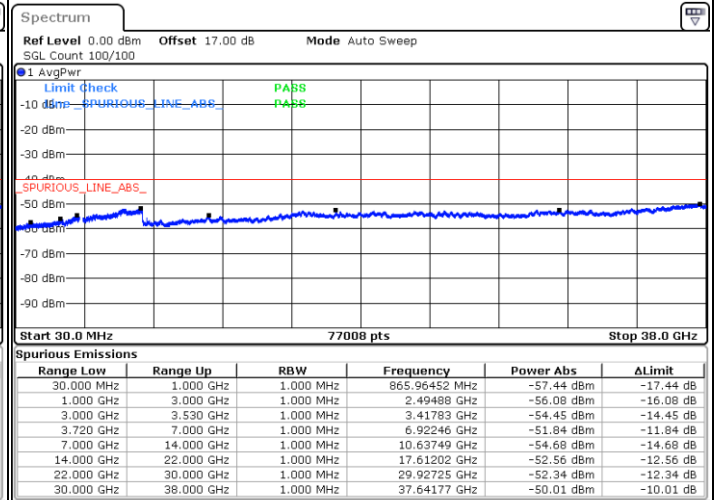
64QAM

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



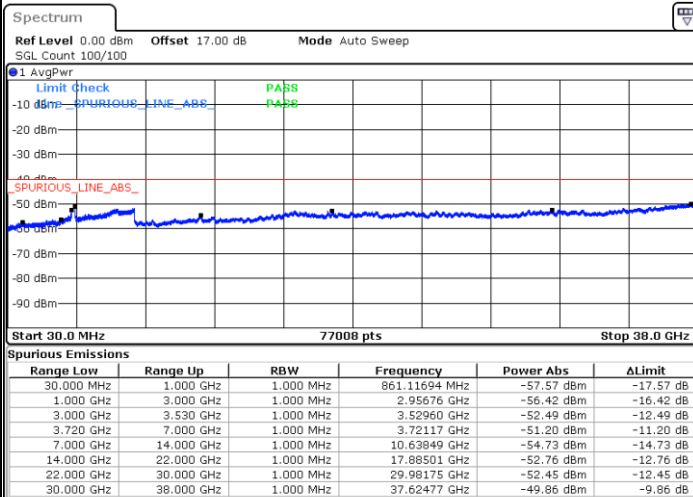
Date: 12.JUN.2020 23:55:48



Date: 13.JUN.2020 00:02:08

Middle Channel / FullIRB

N/A



Date: 12.JUN.2020 23:54:32

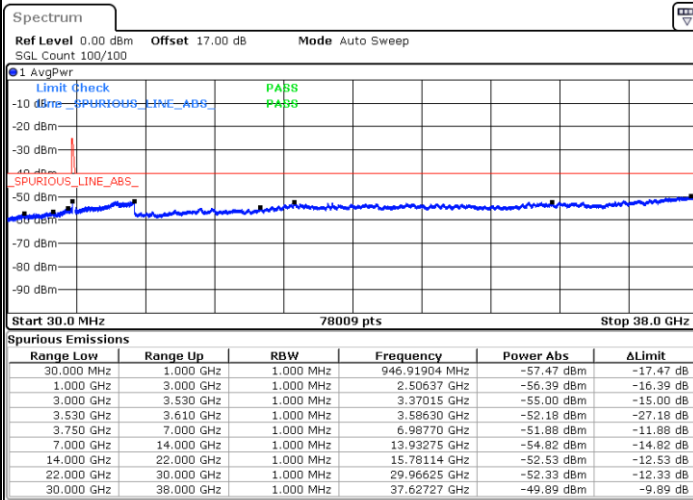


LTE Band 48C / 20MHz+20MHz

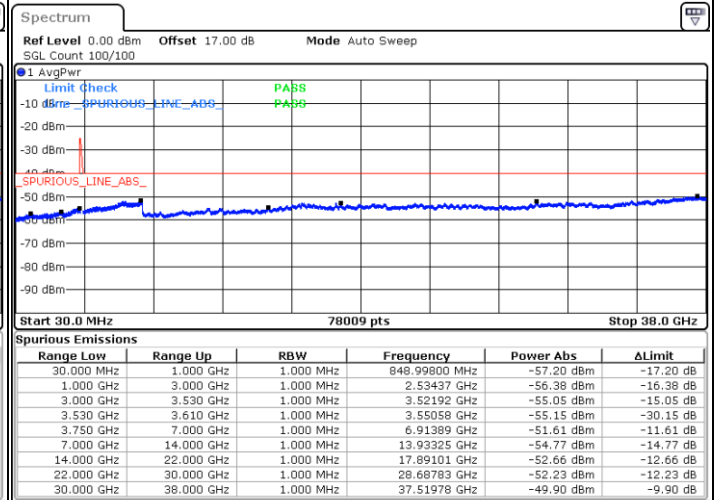
64QAM

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



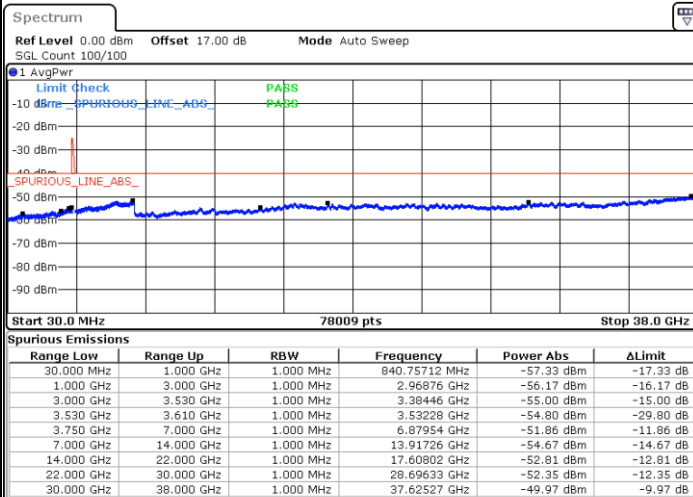
Date: 13.JUN.2020 00:32:14



Date: 13.JUN.2020 00:28:43

Highest Channel / FullRB

N/A



Date: 13.JUN.2020 00:38:38



Appendix B. Test Results of EIRP and Radiated Test

EIRP

<Reporting Only>

<Primary Antenna>

LTE Band 48 / 5MHz (Average) (GT - LC = -1.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.89	0.1945	21.09	0.1285
Middle		1	0	22.92	0.1959	21.12	0.1294
Highest		1	0	22.98	0.1986	21.18	0.1312
Lowest	16QAM	1	12	22.12	0.1629	20.32	0.1076
Middle		1	12	22.18	0.1652	20.38	0.1091
Highest		1	12	22.15	0.1641	20.35	0.1084
Lowest	64QAM	1	0	20.80	0.1202	19.00	0.0794
Middle		1	0	20.91	0.1233	19.11	0.0815
Highest		1	0	20.89	0.1227	19.09	0.0811

LTE Band 48 / 10MHz (Average) (GT - LC = -1.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.96	0.1977	21.16	0.1306
Middle		1	0	22.77	0.1892	20.97	0.1250
Highest		1	0	22.98	0.1986	21.18	0.1312
Lowest	16QAM	1	0	22.00	0.1585	20.20	0.1047
Middle		1	0	21.94	0.1563	20.14	0.1033
Highest		1	0	22.16	0.1644	20.36	0.1086
Lowest	64QAM	1	0	20.73	0.1183	18.93	0.0782
Middle		1	0	20.98	0.1253	19.18	0.0828
Highest		1	0	20.86	0.1219	19.06	0.0805

LTE Band 48 / 15MHz (Average) (GT - LC = -1.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.90	0.1950	21.10	0.1288
Middle		1	0	22.95	0.1972	21.15	0.1303
Highest		1	0	22.97	0.1982	21.17	0.1309
Lowest	16QAM	1	0	22.06	0.1607	20.26	0.1062
Middle		1	0	22.11	0.1626	20.31	0.1074
Highest		1	0	22.12	0.1629	20.32	0.1076
Lowest	64QAM	1	0	20.80	0.1202	19.00	0.0794
Middle		1	0	20.68	0.1169	18.88	0.0773
Highest		1	0	20.85	0.1216	19.05	0.0804



LTE Band 48 / 20MHz (Average) (GT - LC = -1.8 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	22.98	0.1986	21.18	0.1312
Middle		1	0	22.93	0.1963	21.13	0.1297
Highest		1	0	23.07	0.2028	21.27	0.1340
Lowest	16QAM	1	0	22.08	0.1614	20.28	0.1067
Middle		1	0	22.06	0.1607	20.26	0.1062
Highest		1	0	22.21	0.1663	20.41	0.1099
Lowest	64QAM	1	0	20.83	0.1211	19.03	0.0800
Middle		1	0	20.75	0.1189	18.95	0.0785
Highest		1	0	20.94	0.1242	19.14	0.0820



EIRP

LTE Band 48 / Conducted Power (dBm/10MHz)									
BW	1.4MHz			3MHz			5MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	-	-	-	-	-	-	22.89	22.12	20.80
Middle CH	-	-	-	-	-	-	22.92	22.18	20.91
Highest CH	-	-	-	-	-	-	22.98	22.15	20.89
LTE Band 48 / Conducted Power (dBm/10MHz)									
BW	10MHz			15MHz			20MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	22.96	22.00	20.73	22.90	22.06	20.80	22.98	22.08	20.83
Middle CH	22.77	21.94	20.98	22.95	22.11	20.68	22.93	22.06	20.75
Highest CH	22.98	22.16	20.86	22.97	22.12	20.85	23.07	22.21	20.94

LTE Band 48 / EIRP Power (dBm/10MHz)									
BW	1.4MHz			3MHz			5MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	-	-	-	-	-	-	21.09	20.32	19.00
Middle CH	-	-	-	-	-	-	21.12	20.38	19.11
Highest CH	-	-	-	-	-	-	21.18	20.35	19.09
LTE Band 48 / EIRP Power (dBm/10MHz)									
BW	10MHz			15MHz			20MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	21.16	20.20	18.93	21.10	20.26	19.00	21.18	20.28	19.03
Middle CH	20.97	20.14	19.18	21.15	20.31	18.88	21.13	20.26	18.95
Highest CH	21.18	20.36	19.06	21.17	20.32	19.05	21.27	20.41	19.14
Antenna Gain	-1.8 dBi								
Limit	23dBm / 10MHz								
Result	PASS								



LTE Band 48C_CA / 20 + 20 MHz (GT - LC = -1.8 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	1	0	7.56	0.0057	5.76	0.0038
Middle		1	0	1	0	16.24	0.0421	14.44	0.0278
Highest		1	0	1	0	7.81	0.0060	6.01	0.0040
Lowest	16QAM	1	99	1	0	7.97	0.0063	6.17	0.0041
Middle		1	99	1	0	16.70	0.0468	14.90	0.0309
Highest		1	99	1	0	8.23	0.0067	6.43	0.0044
Lowest	64QAM	1	99	1	0	7.67	0.0058	5.87	0.0039
Middle		1	99	1	0	16.41	0.0438	14.61	0.0289
Highest		1	99	1	0	7.93	0.0062	6.13	0.0041
Limit	EIRP < 0.2W					Result		PASS	

LTE Band 48C_CA / 20 + 15 MHz (GT - LC = -1.8 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	100	0	75	0	7.55	0.0057	5.75	0.0038
Middle		100	0	75	0	16.21	0.0418	14.41	0.0276
Highest		100	0	75	0	7.78	0.0060	5.98	0.0040
Lowest	16QAM	1	0	1	74	8.02	0.0063	6.22	0.0042
Middle		1	0	1	74	16.73	0.0471	14.93	0.0311
Highest		1	0	1	74	8.21	0.0066	6.41	0.0044
Lowest	64QAM	100	0	75	0	7.59	0.0057	5.79	0.0038
Middle		100	0	75	0	16.54	0.0451	14.74	0.0298
Highest		100	0	75	0	7.79	0.0060	5.99	0.0040
Limit	EIRP < 0.2W					Result		PASS	

LTE Band 48C_CA / 15 + 20 MHz (GT - LC = -1.8 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	75	0	100	0	7.63	0.0058	5.83	0.0038
Middle		75	0	100	0	16.26	0.0423	14.46	0.0279
Highest		75	0	100	0	7.81	0.0060	6.01	0.0040
Lowest	16QAM	1	0	1	99	8.01	0.0063	6.21	0.0042
Middle		1	0	1	99	16.74	0.0472	14.94	0.0312
Highest		1	0	1	99	8.26	0.0067	6.46	0.0044
Lowest	64QAM	1	0	1	99	7.73	0.0059	5.93	0.0039
Middle		1	0	1	99	16.43	0.0440	14.63	0.0290
Highest		1	0	1	99	7.93	0.0062	6.13	0.0041
Limit	EIRP < 0.2W					Result		PASS	



FCC RADIO TEST REPORT

Report No. : FG022521-02H

LTE Band 48C_CA / 20 + 10 MHz (GT - LC = -1.8 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	100	0	50	0	7.59	0.0057	5.79	0.0038
Middle		100	0	50	0	16.24	0.0421	14.44	0.0278
Highest		100	0	50	0	7.81	0.0060	6.01	0.0040
Lowest	16QAM	1	0	1	49	8.05	0.0064	6.25	0.0042
Middle		1	0	1	49	16.75	0.0473	14.95	0.0313
Highest		1	0	1	49	8.24	0.0067	6.44	0.0044
Lowest	64QAM	1	0	1	49	7.75	0.0060	5.95	0.0039
Middle		1	0	1	49	16.46	0.0443	14.66	0.0292
Highest		1	0	1	49	7.94	0.0062	6.14	0.0041
Limit	EIRP < 0.2W					Result		PASS	

LTE Band 48C_CA / 10 + 20 MHz (GT - LC = -1.8 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	50	0	100	0	7.58	0.0057	5.78	0.0038
Middle		50	0	100	0	16.26	0.0423	14.46	0.0279
Highest		50	0	100	0	7.83	0.0061	6.03	0.0040
Lowest	16QAM	1	0	1	99	8.14	0.0065	6.34	0.0043
Middle		1	0	1	99	16.78	0.0476	14.98	0.0315
Highest		1	0	1	99	8.33	0.0068	6.53	0.0045
Lowest	64QAM	1	0	1	99	7.80	0.0060	6.00	0.0040
Middle		1	0	1	99	16.52	0.0449	14.72	0.0296
Highest		1	0	1	99	8.12	0.0065	6.32	0.0043
Limit	EIRP < 0.2W					Result		PASS	

LTE Band 48C_CA / 20 + 5 MHz (GT - LC = -1.8 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	100	0	25	0	7.56	0.0057	5.76	0.0038
Middle		100	0	25	0	16.23	0.0420	14.43	0.0277
Highest		100	0	25	0	7.77	0.0060	5.97	0.0040
Lowest	16QAM	100	0	25	0	8.02	0.0063	6.22	0.0042
Middle		100	0	25	0	16.75	0.0473	14.95	0.0313
Highest		100	0	25	0	8.24	0.0067	6.44	0.0044
Lowest	64QAM	1	0	1	24	7.73	0.0059	5.93	0.0039
Middle		1	0	1	24	16.44	0.0441	14.64	0.0291
Highest		1	0	1	24	7.95	0.0062	6.15	0.0041
Limit	EIRP < 0.2W					Result		PASS	



LTE Band 48C_CA / 5 + 20 MHz (GT - LC = -1.8 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	0	100	0	7.58	0.0057	5.78	0.0038
Middle		25	0	100	0	16.29	0.0426	14.49	0.0281
Highest		25	0	100	0	7.82	0.0061	6.02	0.0040
Lowest	16QAM	1	0	1	99	8.04	0.0064	6.24	0.0042
Middle		1	0	1	99	16.74	0.0472	14.94	0.0312
Highest		1	0	1	99	8.25	0.0067	6.45	0.0044
Lowest	64QAM	1	0	1	99	7.77	0.0060	5.97	0.0040
Middle		1	0	1	99	16.50	0.0447	14.70	0.0295
Highest		1	0	1	99	7.99	0.0063	6.19	0.0042
Limit	EIRP < 0.2W					Result		PASS	



<ASDIV Antenna>

LTE Band 48 / 5MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.52	0.1419	21.02	0.1265
Middle		1	0	21.47	0.1403	20.97	0.1250
Highest		1	0	21.39	0.1377	20.89	0.1227
Lowest	16QAM	1	0	20.84	0.1213	20.34	0.1081
Middle		1	0	20.80	0.1202	20.30	0.1072
Highest		1	0	20.73	0.1183	20.23	0.1054
Lowest	64QAM	1	0	19.71	0.0935	19.21	0.0834
Middle		1	0	19.69	0.0931	19.19	0.0830
Highest		1	0	19.63	0.0918	19.13	0.0818

LTE Band 48 / 10MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.53	0.1422	21.03	0.1268
Middle		1	0	21.52	0.1419	21.02	0.1265
Highest		1	0	21.46	0.1400	20.96	0.1247
Lowest	16QAM	1	0	20.89	0.1227	20.39	0.1094
Middle		1	0	20.87	0.1222	20.37	0.1089
Highest		1	0	20.80	0.1202	20.30	0.1072
Lowest	64QAM	1	0	19.78	0.0951	19.28	0.0847
Middle		1	0	19.79	0.0953	19.29	0.0849
Highest		1	0	19.70	0.0933	19.20	0.0832

LTE Band 48 / 15MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.53	0.1422	21.03	0.1268
Middle		1	0	21.57	0.1435	21.07	0.1279
Highest		1	0	21.47	0.1403	20.97	0.1250
Lowest	16QAM	1	0	20.67	0.1167	20.17	0.1040
Middle		1	0	20.67	0.1167	20.17	0.1040
Highest		1	0	20.61	0.1151	20.11	0.1026
Lowest	64QAM	1	0	19.43	0.0877	18.93	0.0782
Middle		1	0	19.42	0.0875	18.92	0.0780
Highest		1	0	19.37	0.0865	18.87	0.0771



LTE Band 48 / 20MHz (Average) (GT - LC = -0.5 dB)							
Channel	Mode	RB		Conducted		EIRP	
		Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	21.63	0.1455	21.13	0.1297
Middle		1	0	21.62	0.1452	21.12	0.1294
Highest		1	0	21.59	0.1442	21.09	0.1285
Lowest	16QAM	1	0	20.74	0.1186	20.24	0.1057
Middle		1	0	20.74	0.1186	20.24	0.1057
Highest		1	0	20.72	0.1180	20.22	0.1052
Lowest	64QAM	1	0	19.49	0.0889	18.99	0.0793
Middle		1	0	19.51	0.0893	19.01	0.0796
Highest		1	0	19.45	0.0881	18.95	0.0785


EIRP

LTE Band 48 / Conducted Power (dBm/10MHz)									
BW	1.4MHz			3MHz			5MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	-	-	-	-	-	-	21.52	20.84	19.71
Middle CH	-	-	-	-	-	-	21.47	20.80	19.69
Highest CH	-	-	-	-	-	-	21.39	20.73	19.63
LTE Band 48 / Conducted Power (dBm/10MHz)									
BW	10MHz			15MHz			20MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	21.53	20.89	19.78	21.53	20.67	19.43	21.63	20.74	19.49
Middle CH	21.52	20.87	19.79	21.57	20.67	19.42	21.62	20.74	19.51
Highest CH	21.46	20.80	19.70	21.47	20.61	19.37	21.59	20.72	19.45

LTE Band 48 / EIRP Power (dBm/10MHz)									
BW	1.4MHz			3MHz			5MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	-	-	-	-	-	-	21.02	20.34	19.21
Middle CH	-	-	-	-	-	-	20.97	20.30	19.19
Highest CH	-	-	-	-	-	-	20.89	20.23	19.13
LTE Band 48 / EIRP Power (dBm/10MHz)									
BW	10MHz			15MHz			20MHz		
Mod.	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Lowest CH	21.03	20.39	19.28	21.03	20.17	18.93	21.13	20.24	18.99
Middle CH	21.02	20.37	19.29	21.07	20.17	18.92	21.12	20.24	19.01
Highest CH	20.96	20.30	19.20	20.97	20.11	18.87	21.09	20.22	18.95
Antenna Gain	-0.5 dBi								
Limit	23dBm / 10MHz								
Result	PASS								



LTE Band 48C_CA / 20 + 20 MHz (GT - LC = -0.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	99	1	0	5.61	0.0036	5.11	0.0032
Middle		1	99	1	0	14.27	0.0267	13.77	0.0238
Highest		1	99	1	0	5.64	0.0037	5.14	0.0033
Lowest	16QAM	1	99	1	0	5.88	0.0039	5.38	0.0035
Middle		1	99	1	0	14.84	0.0305	14.34	0.0272
Highest		1	99	1	0	6.14	0.0041	5.64	0.0037
Lowest	64QAM	1	99	1	0	5.76	0.0038	5.26	0.0034
Middle		1	99	1	0	14.61	0.0289	14.11	0.0258
Highest		1	99	1	0	6.00	0.0040	5.50	0.0035
Limit	EIRP < 0.2W					Result		PASS	

LTE Band 48C_CA / 20 + 15 MHz (GT - LC = -0.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	100	0	75	0	5.55	0.0036	5.05	0.0032
Middle		100	0	75	0	14.18	0.0262	13.68	0.0233
Highest		100	0	75	0	5.71	0.0037	5.21	0.0033
Lowest	16QAM	1	0	1	74	6.01	0.0040	5.51	0.0036
Middle		1	0	1	74	14.76	0.0299	14.26	0.0267
Highest		1	0	1	74	6.14	0.0041	5.64	0.0037
Lowest	64QAM	100	0	75	0	5.56	0.0036	5.06	0.0032
Middle		100	0	75	0	14.73	0.0297	14.23	0.0265
Highest		100	0	75	0	5.83	0.0038	5.33	0.0034
Limit	EIRP < 0.2W					Result		PASS	

LTE Band 48C_CA / 15 + 20 MHz (GT - LC = -0.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	75	0	100	0	5.64	0.0037	5.14	0.0033
Middle		75	0	100	0	14.27	0.0267	13.77	0.0238
Highest		75	0	100	0	5.87	0.0039	5.37	0.0034
Lowest	16QAM	1	0	1	99	6.02	0.0040	5.52	0.0036
Middle		1	0	1	99	14.86	0.0306	14.36	0.0273
Highest		1	0	1	99	6.20	0.0042	5.70	0.0037
Lowest	64QAM	1	0	1	99	5.78	0.0038	5.28	0.0034
Middle		1	0	1	99	14.53	0.0284	14.03	0.0253
Highest		1	0	1	99	6.13	0.0041	5.63	0.0037
Limit	EIRP < 0.2W					Result		PASS	



FCC RADIO TEST REPORT

Report No. : FG022521-02H

LTE Band 48C_CA / 20 + 10 MHz (GT - LC = -0.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	100	0	50	0	5.63	0.0037	5.13	0.0033
Middle		100	0	50	0	14.37	0.0274	13.87	0.0244
Highest		100	0	50	0	5.84	0.0038	5.34	0.0034
Lowest	16QAM	1	0	1	49	6.05	0.0040	5.55	0.0036
Middle		1	0	1	49	14.84	0.0305	14.34	0.0272
Highest		1	0	1	49	6.24	0.0042	5.74	0.0037
Lowest	64QAM	1	0	1	49	5.84	0.0038	5.34	0.0034
Middle		1	0	1	49	14.50	0.0282	14.00	0.0251
Highest		1	0	1	49	6.10	0.0041	5.60	0.0036
Limit	EIRP < 0.2W					Result		PASS	

LTE Band 48C_CA / 10 + 20 MHz (GT - LC = -0.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	1	99	5.50	0.0035	5.00	0.0032
Middle		1	0	1	99	14.30	0.0269	13.80	0.0240
Highest		1	0	1	99	5.98	0.0040	5.48	0.0035
Lowest	16QAM	1	0	1	99	6.15	0.0041	5.65	0.0037
Middle		1	0	1	99	14.97	0.0314	14.47	0.0280
Highest		1	0	1	99	6.46	0.0044	5.96	0.0039
Lowest	64QAM	1	0	1	99	5.71	0.0037	5.21	0.0033
Middle		1	0	1	99	14.51	0.0282	14.01	0.0252
Highest		1	0	1	99	6.23	0.0042	5.73	0.0037
Limit	EIRP < 0.2W					Result		PASS	

LTE Band 48C_CA / 20 + 5 MHz (GT - LC = -0.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	1	0	1	24	5.61	0.0036	5.11	0.0032
Middle		1	0	1	24	14.33	0.0271	13.83	0.0242
Highest		1	0	1	24	5.83	0.0038	5.33	0.0034
Lowest	16QAM	1	0	1	24	6.09	0.0041	5.59	0.0036
Middle		1	0	1	24	14.78	0.0301	14.28	0.0268
Highest		1	0	1	24	6.23	0.0042	5.73	0.0037
Lowest	64QAM	1	0	1	24	5.76	0.0038	5.26	0.0034
Middle		1	0	1	24	14.43	0.0277	13.93	0.0247
Highest		1	0	1	24	5.73	0.0037	5.23	0.0033
Limit	EIRP < 0.2W					Result		PASS	



LTE Band 48C_CA / 5 + 20 MHz (GT - LC = -0.5 dB)									
Channel	Mode	PCC		SCC		Conducted		EIRP	
		RB		RB					
		Size	Offset	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)
Lowest	QPSK	25	0	100	0	5.65	0.0037	5.15	0.0033
Middle		25	0	100	0	14.26	0.0267	13.76	0.0238
Highest		25	0	100	0	5.95	0.0039	5.45	0.0035
Lowest	16QAM	1	24	1	0	6.01	0.0040	5.51	0.0036
Middle		1	24	1	0	14.79	0.0301	14.29	0.0269
Highest		1	24	1	0	6.19	0.0042	5.69	0.0037
Lowest	64QAM	1	0	1	99	5.67	0.0037	5.17	0.0033
Middle		1	0	1	99	14.65	0.0292	14.15	0.0260
Highest		1	0	1	99	6.18	0.0041	5.68	0.0037
Limit	EIRP < 0.2W					Result		PASS	

**Radiated Spurious Emission**

<Primary Antenna>

<Ant. 7>

LTE Band 48

LTE Band 48 / 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	7102	-58.15	-40	-18.15	-60.13	-68.11	1.78	11.74	H
	10653	-56.31	-40	-16.31	-58.58	-64.74	2.47	10.90	H
	14204	-56.07	-40	-16.07	-63.13	-64.91	2.87	11.71	H
	21307	-54.72	-40	-14.72	-76.57	-71.44	1.98	18.70	H
	24859	-53.28	-40	-13.28	-77.94	-69.29	2.07	18.07	H
	28411	-50.21	-40	-10.21	-75.73	-67.46	2.32	19.56	H
									H
	7102	-59.14	-40	-19.14	-60.73	-69.10	1.78	11.74	V
	10653	-56.78	-40	-16.78	-58.8	-65.21	2.47	10.90	V
	14204	-56.50	-40	-16.50	-63.29	-65.34	2.87	11.71	V
	21307	-54.30	-40	-14.30	-76.02	-71.02	1.98	18.70	V
	24859	-52.22	-40	-12.22	-78.09	-68.23	2.07	18.07	V
	28411	-44.02	-40	-4.02	-71.36	-61.27	2.32	19.56	V
									V



Middle	7232	-54.14	-40	-14.14	-56.52	-63.82	1.85	11.53	H
	10848	-49.23	-40	-9.23	-51.56	-57.56	2.57	10.90	H
	14464	-56.55	-40	-16.55	-63.82	-64.78	2.85	11.09	H
	18077	-50.49	-40	-10.49	-68.6	-66.72	1.76	17.98	H
	21696	-55.28	-40	-15.28	-76.8	-72.07	1.99	18.78	H
	25314	-52.45	-40	-12.45	-77.61	-69.05	2.14	18.74	H
									H
	7232	-54.56	-40	-14.56	-56.67	-64.24	1.85	11.53	V
	10848	-56.67	-40	-16.67	-58.79	-65.00	2.57	10.90	V
	14464	-56.90	-40	-16.90	-63.34	-65.13	2.85	11.09	V
	18077	-54.11	-40	-14.11	-71.29	-70.34	1.76	17.98	V
	21696	-54.94	-40	-14.94	-76.45	-71.73	1.99	18.78	V
	25314	-50.83	-40	-10.83	-77.26	-67.43	2.14	18.74	V
									V
Highest	7362	-58.60	-40	-18.60	-60.93	-68.01	1.92	11.32	H
	11043	-57.14	-40	-17.14	-59.61	-65.46	2.63	10.95	H
	14724	-55.65	-40	-15.65	-64.49	-64.45	2.91	11.72	H
	18410	-54.25	-40	-14.25	-72.57	-70.30	1.87	17.92	H
	22084	-54.30	-40	-14.30	-76.46	-71.09	2.08	18.87	H
	25770	-50.17	-40	-10.17	-76.17	-67.19	2.03	19.05	H
									H
	7362	-58.53	-40	-18.53	-60.68	-67.94	1.92	11.32	V
	11043	-58.39	-40	-18.39	-60.7	-66.71	2.63	10.95	V
	14724	-57.38	-40	-17.38	-64.55	-66.18	2.91	11.72	V
	18410	-55.88	-40	-15.88	-73.32	-71.93	1.87	17.92	V
	22084	-54.50	-40	-14.50	-76.66	-71.29	2.08	18.87	V
	25770	-50.39	-40	-10.39	-77.57	-67.41	2.03	19.05	V
									V

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

**LTE Band 48C CA**

LTE Band 48C CA / 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	-57.30	-40	-17.30	-59.43	-67.18	1.80	11.68	H
	10705	-53.44	-40	-13.44	-55.73	-61.84	2.50	10.90	H
	14272	-54.47	-40	-14.47	-61.58	-63.15	2.86	11.55	H
	21418	-54.87	-40	-14.87	-76.42	-71.62	1.95	18.70	H
	24981	-52.87	-40	-12.87	-77.53	-69.06	2.08	18.27	H
	28556	-50.28	-40	-10.28	-75.76	-67.50	2.31	19.53	H
									H
	7140	-56.89	-40	-16.89	-58.67	-66.77	1.80	11.68	V
	10705	-54.05	-40	-14.05	-56.1	-62.45	2.50	10.90	V
	14272	-55.80	-40	-15.80	-62.49	-64.48	2.86	11.55	V
	21418	-54.63	-40	-14.63	-76.12	-71.38	1.95	18.70	V
	24981	-51.88	-40	-11.88	-77.69	-68.07	2.08	18.27	V
	28556	-48.28	-40	-8.28	-75.63	-65.50	2.31	19.53	V
									V
Middle	7250	-57.67	-40	-17.67	-60.03	-67.32	1.86	11.50	H
	10870	-53.73	-40	-13.73	-56.06	-62.05	2.58	10.90	H
	14498	-56.94	-40	-16.94	-64.24	-65.09	2.85	11.00	H
	18122	-47.46	-40	-7.46	-65.6	-63.66	1.77	17.98	H
	21740	-53.23	-40	-13.23	-74.79	-70.02	2.01	18.80	H
	25370	-51.46	-40	-11.46	-76.71	-68.13	2.15	18.82	H
	28989	-48.81	-40	-8.81	-74.02	-65.45	2.37	19.01	H
	7250	-57.78	-40	-17.78	-59.89	-67.43	1.86	11.50	V
	10870	-54.84	-40	-14.84	-56.97	-63.16	2.58	10.90	V
	14498	-57.97	-40	-17.97	-64.37	-66.12	2.85	11.00	V
	18122	-52.27	-40	-12.27	-69.49	-68.47	1.77	17.98	V
	21740	-55.20	-40	-15.20	-76.75	-71.99	2.01	18.80	V
	25370	-51.15	-40	-11.15	-77.69	-67.82	2.15	18.82	V
	28989	-46.64	-40	-6.64	-73.4	-63.28	2.37	19.01	V



Highest	7360	-58.75	-40	-18.75	-61.09	-68.16	1.91	11.32	H
	11035	-53.67	-40	-13.67	-56.12	-61.98	2.64	10.94	H
	14718	-55.31	-40	-15.31	-64.1	-64.10	2.91	11.70	H
	18399	-50.73	-40	-10.73	-69.04	-66.78	1.87	17.92	H
	22073	-54.57	-40	-14.57	-76.69	-71.36	2.08	18.87	H
	25758	-49.40	-40	-9.40	-75.37	-66.42	2.04	19.05	H
	29429	-50.19	-40	-10.19	-74.93	-67.28	2.16	19.26	H
	36788	-49.05	-40	-9.05	-75.32	-65.41	2.57	18.93	H
									H
	7360	-58.78	-40	-18.78	-60.93	-68.19	1.91	11.32	V
	11035	-57.05	-40	-17.05	-59.33	-65.36	2.64	10.94	V
	14718	-57.38	-40	-17.38	-64.53	-66.17	2.91	11.70	V
	18399	-52.87	-40	-12.87	-70.3	-68.92	1.87	17.92	V
	22073	-54.67	-40	-14.67	-76.79	-71.46	2.08	18.87	V
	25758	-50.17	-40	-10.17	-77.33	-67.19	2.04	19.05	V
	29429	-48.87	-40	-8.87	-75.21	-65.96	2.16	19.26	V
	36788	-44.87	-40	-4.87	-71.24	-61.23	2.57	18.93	V
									V

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



<ASDIV Antenna>

<Ant. 2>

LTE Band 48

LTE Band 48 / 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	7120	-44.29	-40	-4.29	-46.34	-54.21	1.78	11.71	H
	10680	-56.47	-40	-16.47	-58.75	-64.89	2.48	10.90	H
	14242	-55.12	-40	-15.12	-62.2	-63.87	2.87	11.62	H
	21363	-52.46	-40	-12.46	-74.16	-69.20	1.96	18.70	H
	24915	-52.42	-40	-12.42	-77.08	-68.51	2.07	18.16	H
	28478	-50.41	-40	-10.41	-75.93	-67.70	2.30	19.59	H
	7120	-47.97	-40	-7.97	-49.65	-57.89	1.78	11.71	V
	10680	-57.22	-40	-17.22	-59.26	-65.64	2.48	10.90	V
	14242	-55.58	-40	-15.58	-62.31	-64.33	2.87	11.62	V
	21363	-54.93	-40	-14.93	-76.54	-71.67	1.96	18.70	V
	24915	-51.98	-40	-11.98	-77.82	-68.07	2.07	18.16	V
	28478	-49.10	-40	-9.10	-76.5	-66.39	2.30	19.59	V
Middle	7250	-48.44	-40	-8.44	-50.8	-58.09	1.86	11.50	H
	10875	-55.93	-40	-15.93	-58.26	-64.25	2.59	10.90	H
	14498	-56.47	-40	-16.47	-63.77	-64.62	2.85	11.00	H
	18122	-47.83	-40	-7.83	-65.97	-64.03	1.77	17.98	H
	21751	-55.33	-40	-15.33	-76.9	-72.12	2.01	18.80	H
	25370	-51.00	-40	-11.00	-76.25	-67.67	2.15	18.82	H
	29000	-47.40	-40	-7.40	-72.61	-64.03	2.37	19.00	H
	7250	-53.31	-40	-13.31	-55.42	-62.96	1.86	11.50	V
	10875	-57.22	-40	-17.22	-59.35	-65.54	2.59	10.90	V
	14498	-57.64	-40	-17.64	-64.04	-65.79	2.85	11.00	V
	18122	-53.41	-40	-13.41	-70.63	-69.61	1.77	17.98	V
	21751	-55.51	-40	-15.51	-77.07	-72.30	2.01	18.80	V
	25370	-50.85	-40	-10.85	-77.39	-67.52	2.15	18.82	V
	29000	-47.24	-40	-7.24	-73.99	-63.87	2.37	19.00	V



Highest	7380	-47.63	-40	-7.63	-49.95	-57.00	1.93	11.29	H
	11070	-55.55	-40	-15.55	-58.09	-63.91	2.62	10.98	H
	14760	-55.87	-40	-15.87	-64.96	-64.78	2.92	11.83	H
	18444	-54.41	-40	-14.41	-72.75	-70.44	1.88	17.91	H
	22140	-53.97	-40	-13.97	-76.36	-70.75	2.06	18.84	H
	25825	-51.11	-40	-11.11	-77.21	-68.17	2.00	19.07	H
									H
	7380	-53.47	-40	-13.47	-55.62	-62.84	1.93	11.29	V
	11070	-57.31	-40	-17.31	-59.68	-65.67	2.62	10.98	V
	14760	-57.74	-40	-17.74	-65.05	-66.65	2.92	11.83	V
	18444	-56.50	-40	-16.50	-73.97	-72.53	1.88	17.91	V
	22140	-53.93	-40	-13.93	-76.33	-70.71	2.06	18.84	V
	25825	-50.01	-40	-10.01	-77.27	-67.07	2.00	19.07	V
									V

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

**LTE Band 48C CA**

LTE Band 48C CA / 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	-44.30	-40	-4.30	-46.43	-54.18	1.80	11.68	H
	10705	-54.09	-40	-14.09	-56.38	-62.49	2.50	10.90	H
	14279	-55.35	-40	-15.35	-62.46	-64.02	2.86	11.53	H
	21418	-54.42	-40	-14.42	-75.97	-71.17	1.95	18.70	H
	24981	-52.78	-40	-12.78	-77.44	-68.97	2.08	18.27	H
	28556	-51.26	-40	-11.26	-76.74	-68.48	2.31	19.53	H
									H
	7140	-49.39	-40	-9.39	-51.17	-59.27	1.80	11.68	V
	10705	-56.27	-40	-16.27	-58.32	-64.67	2.50	10.90	V
	14279	-56.05	-40	-16.05	-62.73	-64.72	2.86	11.53	V
	21418	-54.56	-40	-14.56	-76.05	-71.31	1.95	18.70	V
	24981	-51.25	-40	-11.25	-77.06	-67.44	2.08	18.27	V
	28556	-49.56	-40	-9.56	-76.91	-66.78	2.31	19.53	V
									V
Middle	7250	-47.86	-40	-7.86	-50.22	-57.51	1.86	11.50	H
	10870	-57.35	-40	-17.35	-59.68	-65.67	2.58	10.90	H
	14498	-56.85	-40	-16.85	-64.15	-65.00	2.85	11.00	H
	18122	-53.67	-40	-13.67	-71.81	-69.87	1.77	17.98	H
	21740	-54.93	-40	-14.93	-76.49	-71.72	2.01	18.80	H
	25370	-51.89	-40	-11.89	-77.14	-68.56	2.15	18.82	H
									H
	7250	-52.71	-40	-12.71	-54.82	-62.36	1.86	11.50	V
	10870	-57.47	-40	-17.47	-59.6	-65.79	2.58	10.90	V
	14498	-57.91	-40	-17.91	-64.31	-66.07	2.85	11.00	V
	18122	-54.52	-40	-14.52	-71.74	-70.72	1.77	17.98	V
	21740	-55.00	-40	-15.00	-76.55	-71.79	2.01	18.80	V
	25370	-50.22	-40	-10.22	-76.76	-66.89	2.15	18.82	V
									V



Highest	7360	-46.17	-40	-6.17	-48.51	-55.58	1.91	11.32	H
	11040	-55.49	-40	-15.49	-57.95	-63.80	2.63	10.95	H
	14718	-55.61	-40	-15.61	-64.4	-64.40	2.91	11.70	H
	18399	-54.88	-40	-14.88	-73.19	-70.93	1.87	17.92	H
	22073	-54.08	-40	-14.08	-76.2	-70.87	2.08	18.87	H
	25758	-51.40	-40	-11.40	-77.37	-68.42	2.04	19.05	H
									H
	7360	-53.49	-40	-13.49	-55.64	-62.90	1.91	11.32	V
	11040	-57.25	-40	-17.25	-59.54	-65.56	2.63	10.95	V
	14718	-57.24	-40	-17.24	-64.39	-66.03	2.91	11.70	V
	18399	-56.11	-40	-16.11	-73.54	-72.16	1.87	17.92	V
	22073	-54.06	-40	-14.06	-76.18	-70.85	2.08	18.87	V
	25758	-49.98	-40	-9.98	-77.14	-67.00	2.04	19.05	V
									V

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

————THE END————