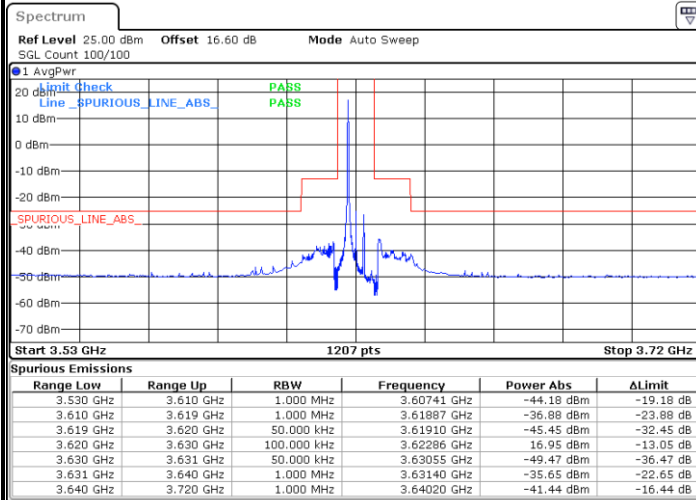




LTE Band 48 / 5MHz

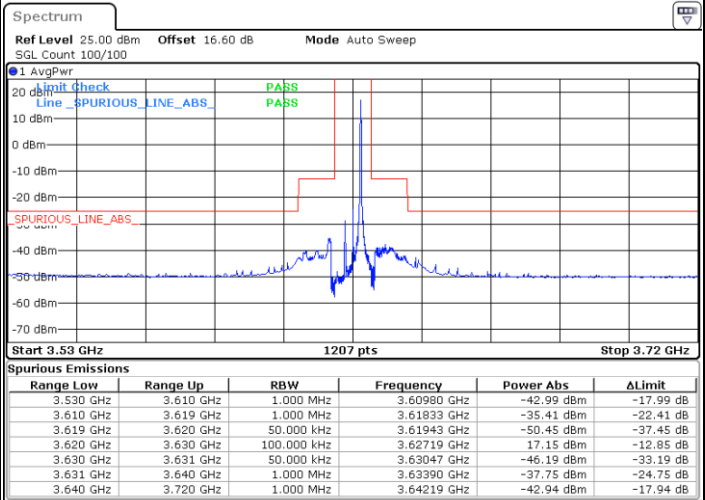
256QAM

Middle Channel / 1RB0



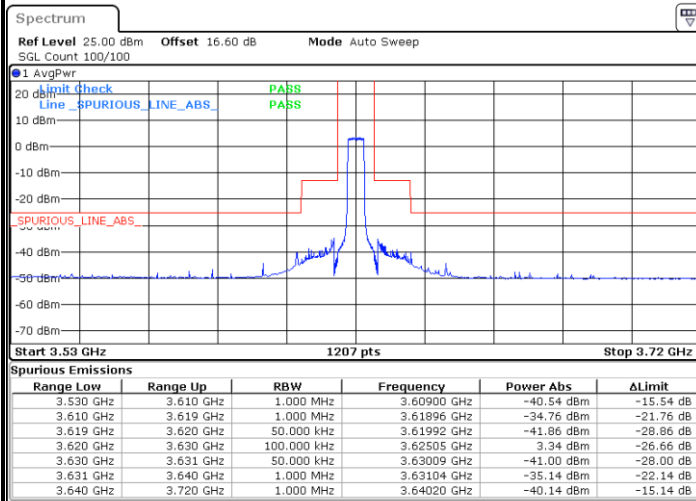
Date: 17.NOV.2021 17:18:20

Middle Channel / 1RBmax



Date: 17.NOV.2021 17:19:18

Middle Channel / FullRB



Date: 17.NOV.2021 17:17:20

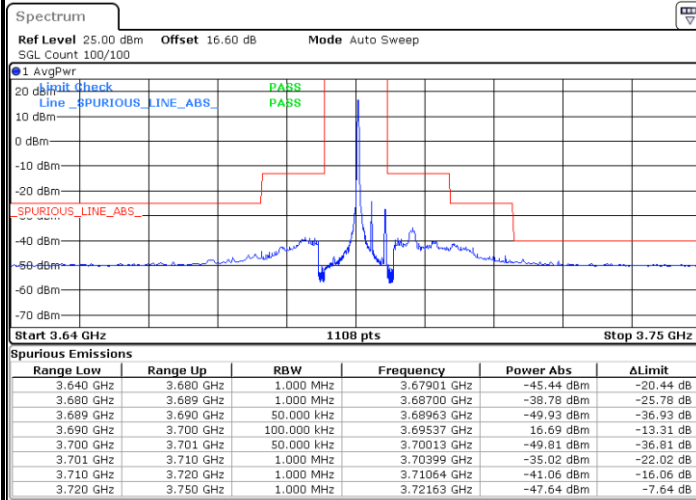
N/A



LTE Band 48 / 5MHz

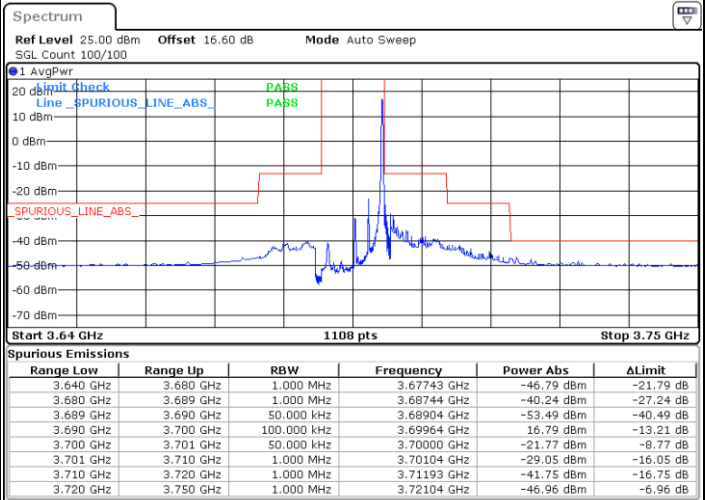
256QAM

Highest Channel / 1RB0



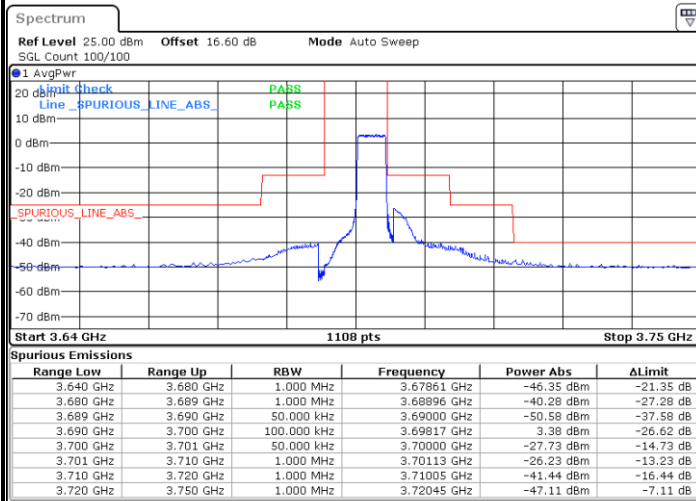
Date: 17.NOV.2021 17:26:17

Highest Channel / 1RBmax



Date: 17.NOV.2021 17:28:08

Highest Channel / FullIRB



Date: 17.NOV.2021 17:24:04

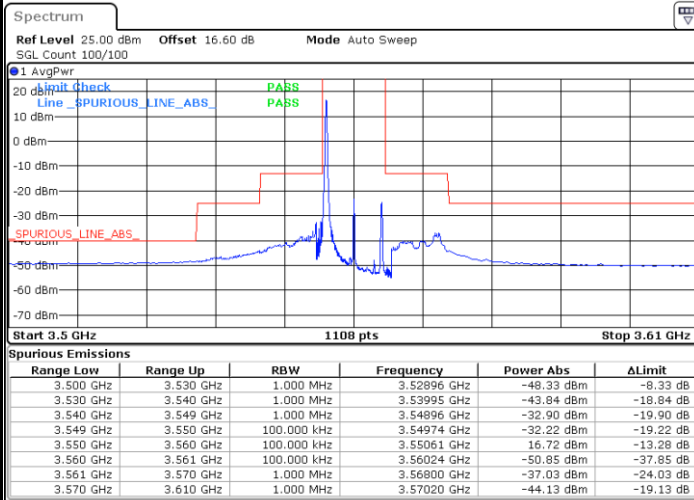
N/A



LTE Band 48 / 10MHz

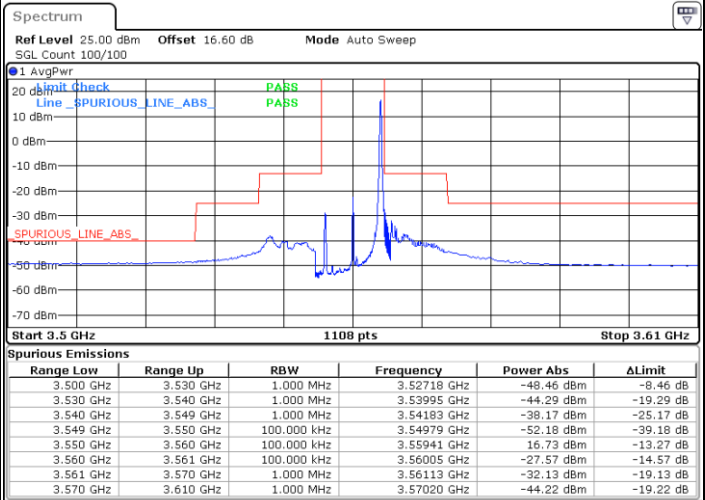
256QAM

Lowest Channel / 1RB0



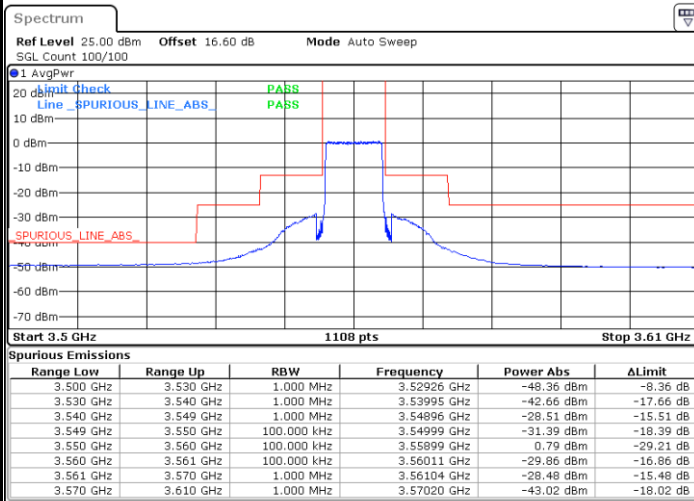
Date: 17.NOV.2021 17:10:23

Lowest Channel / 1RBmax



Date: 17.NOV.2021 17:11:44

Lowest Channel / FullRB



Date: 17.NOV.2021 17:09:24

N/A

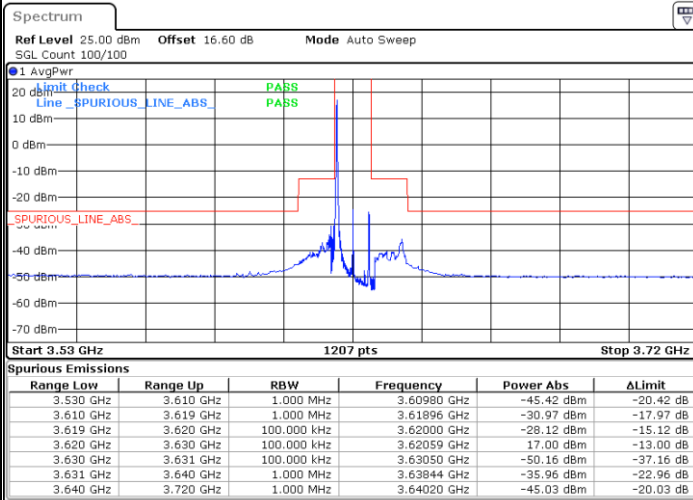


LTE Band 48 / 10MHz

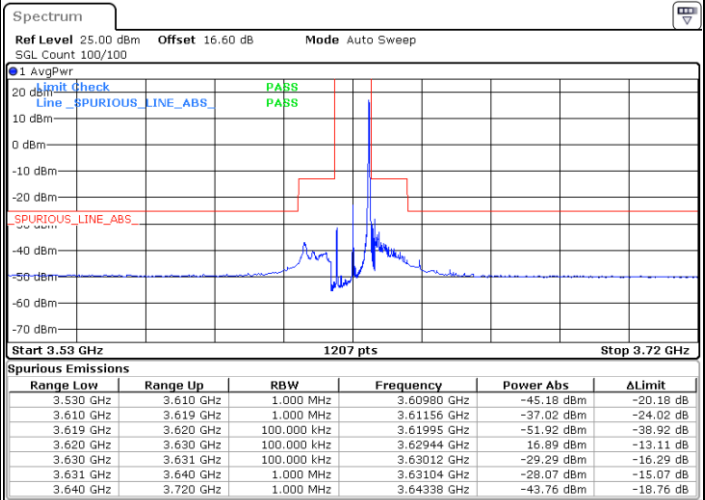
256QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



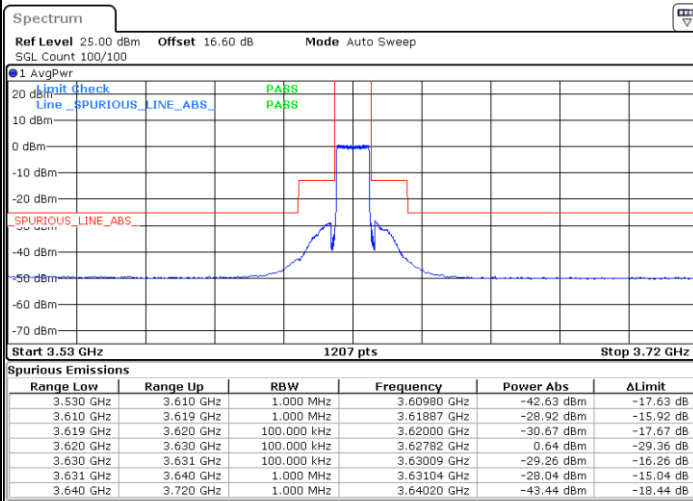
Date: 17.NOV.2021 17:06:57



Date: 17.NOV.2021 17:08:18

Middle Channel / FullRB

N/A



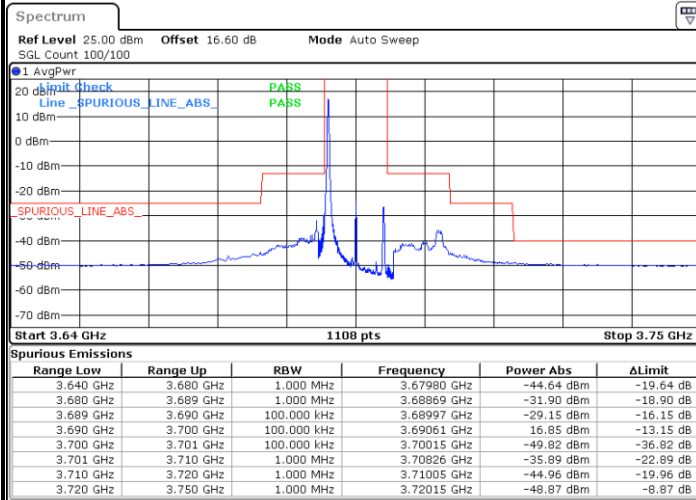
Date: 17.NOV.2021 17:05:22



LTE Band 48 / 10MHz

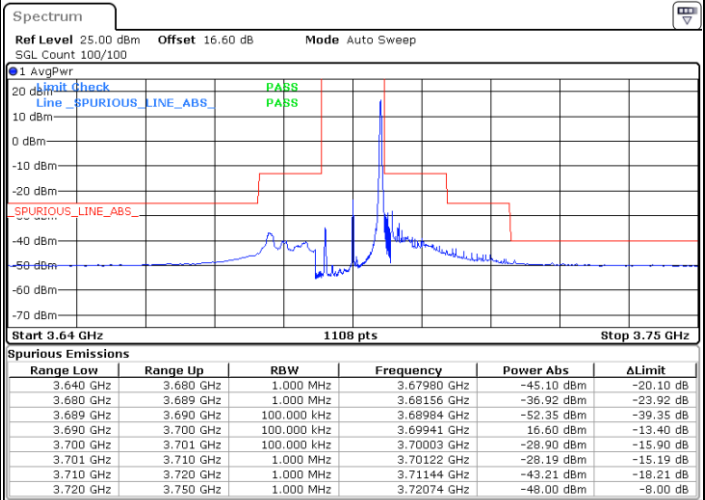
256QAM

Highest Channel / 1RB0



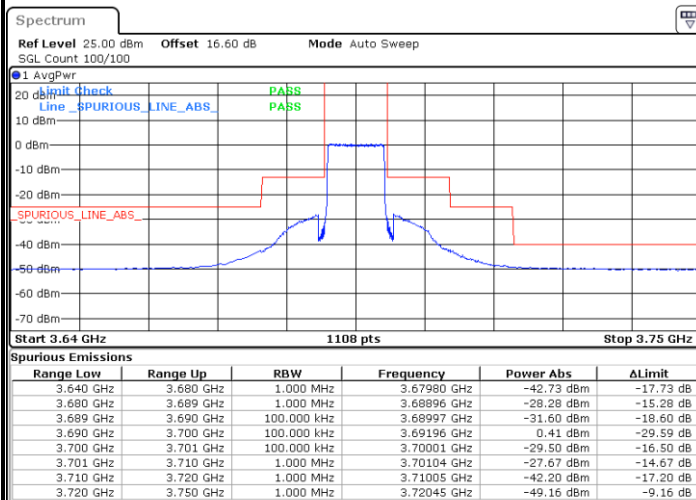
Date: 17.NOV.2021 17:14:01

Highest Channel / 1RBmax



Date: 17.NOV.2021 17:15:02

Highest Channel / FullIRB



Date: 17.NOV.2021 17:12:59

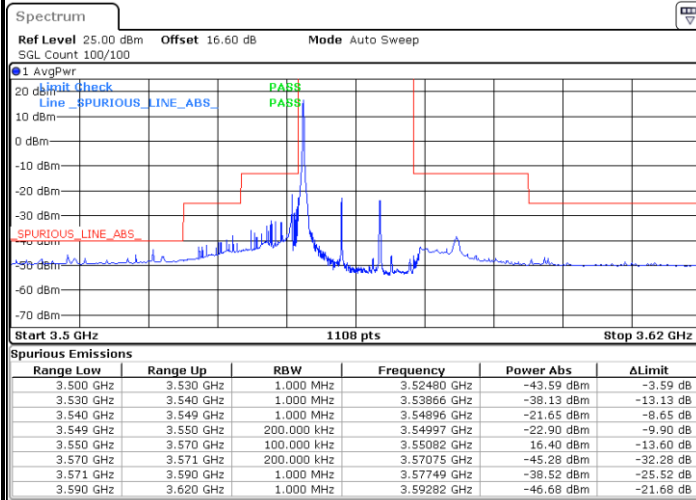
N/A



LTE Band 48 / 15MHz

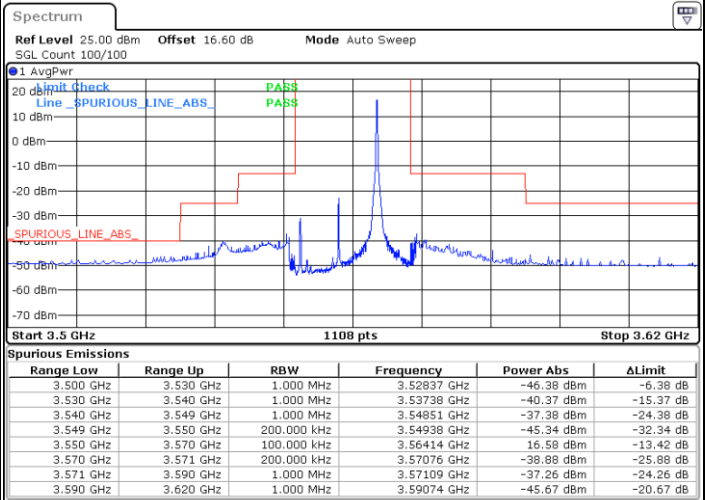
256QAM

Lowest Channel / 1RB0



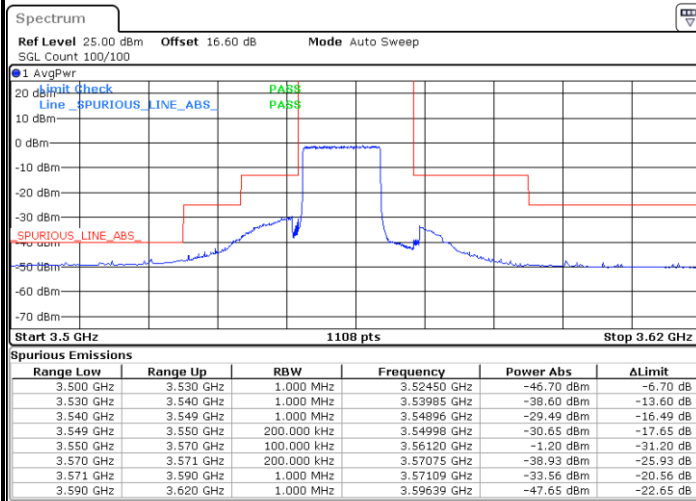
Date: 17.NOV.2021 16:58:30

Lowest Channel / 1RBmax



Date: 17.NOV.2021 16:59:36

Lowest Channel / FullRB



Date: 17.NOV.2021 16:57:21

N/A

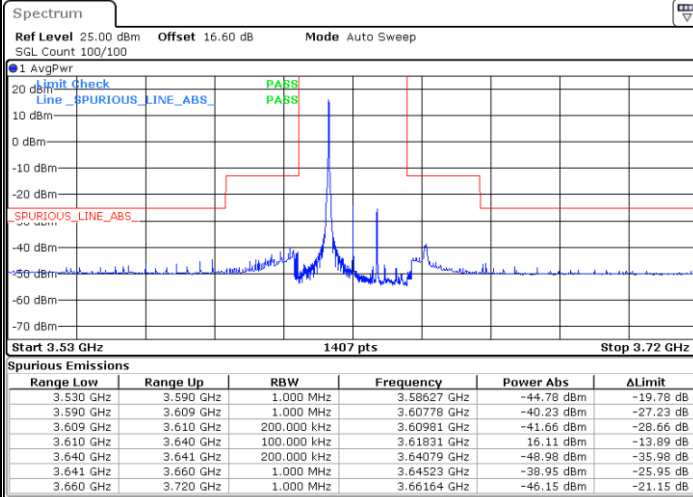


LTE Band 48 / 15MHz

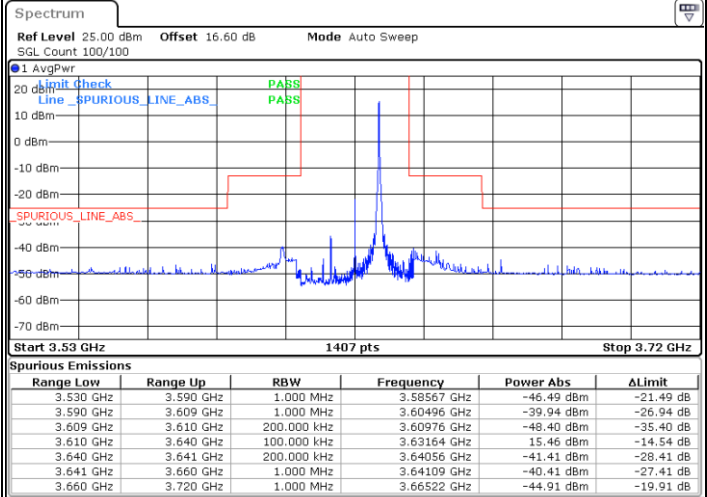
256QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



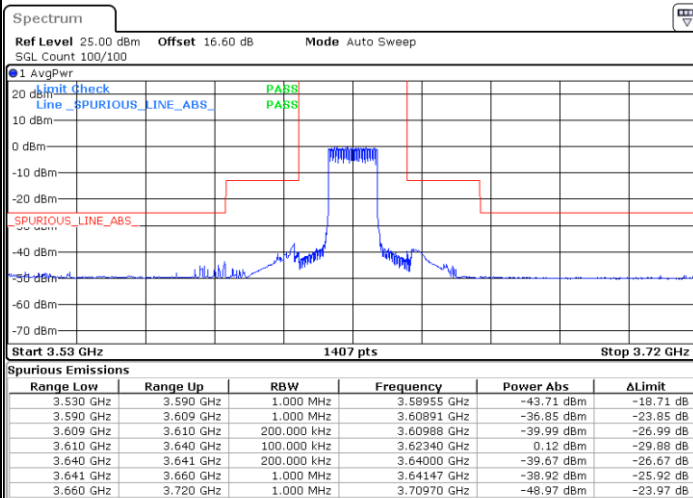
Date: 17.NOV.2021 16:54:40



Date: 17.NOV.2021 16:55:51

Middle Channel / FullRB

N/A



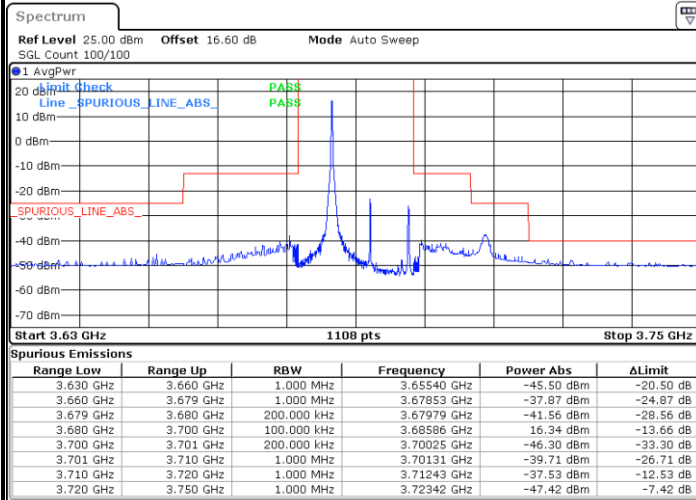
Date: 17.NOV.2021 16:53:42



LTE Band 48 / 15MHz

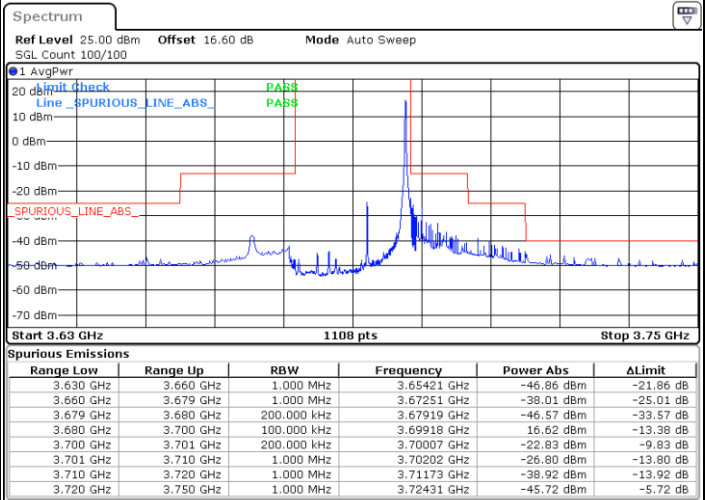
256QAM

Highest Channel / 1RB0



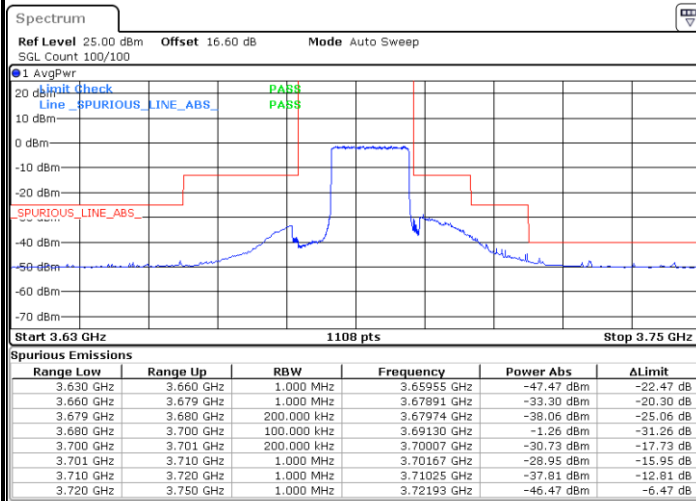
Date: 17.NOV.2021 17:02:00

Highest Channel / 1RBmax



Date: 17.NOV.2021 17:03:39

Highest Channel / FullIRB



Date: 17.NOV.2021 17:00:55

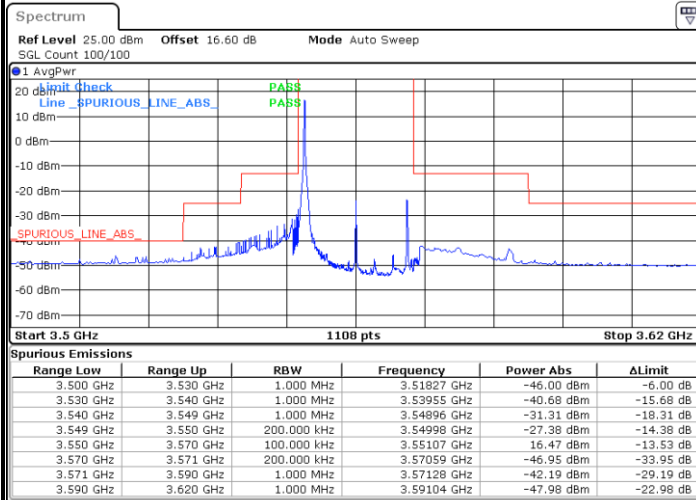
N/A



LTE Band 48 / 20MHz

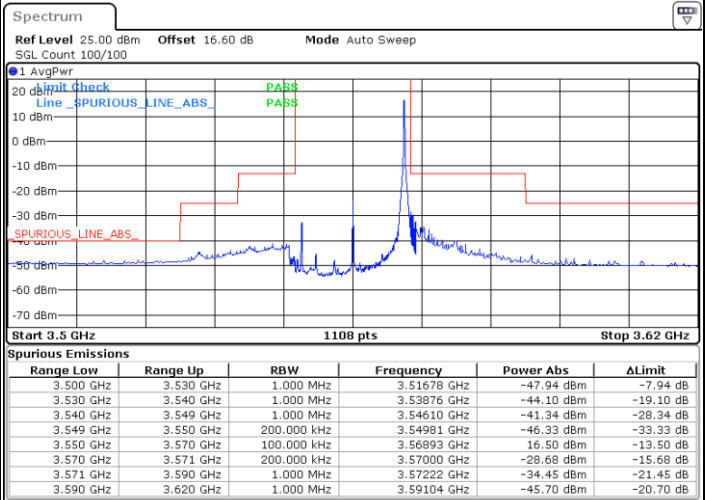
256QAM

Lowest Channel / 1RB0



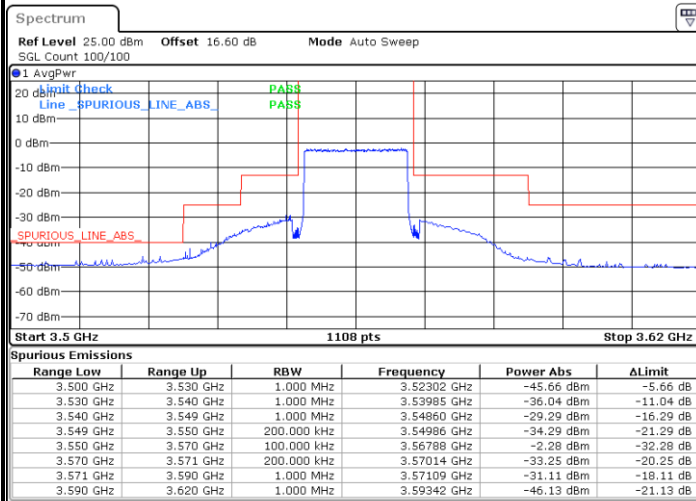
Date: 17.NOV.2021 16:47:14

Lowest Channel / 1RBmax



Date: 17.NOV.2021 16:48:35

Lowest Channel / FullIRB



Date: 17.NOV.2021 16:46:04

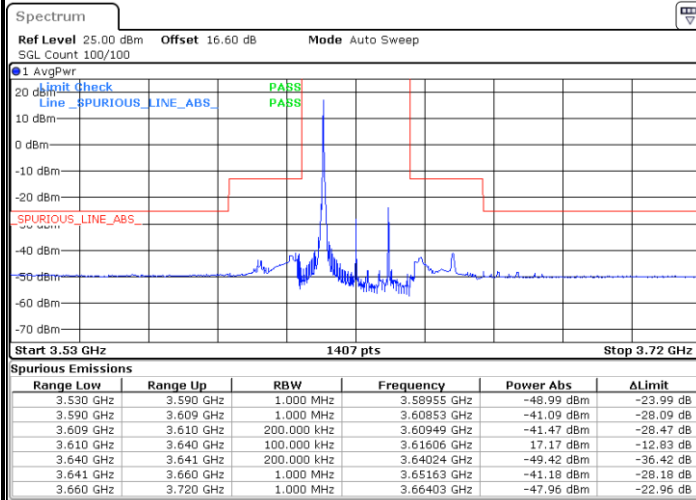
N/A



LTE Band 48 / 20MHz

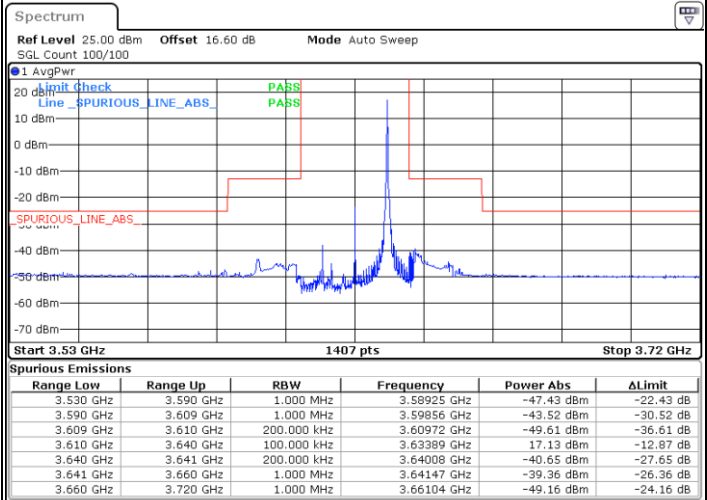
256QAM

Middle Channel / 1RB0



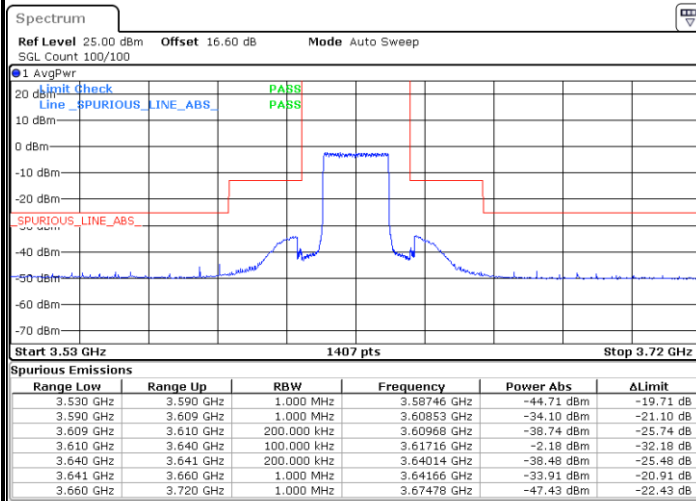
Date: 17.NOV.2021 16:43:53

Middle Channel / 1RBmax



Date: 17.NOV.2021 16:44:52

Middle Channel / FullRB



Date: 17.NOV.2021 16:42:49

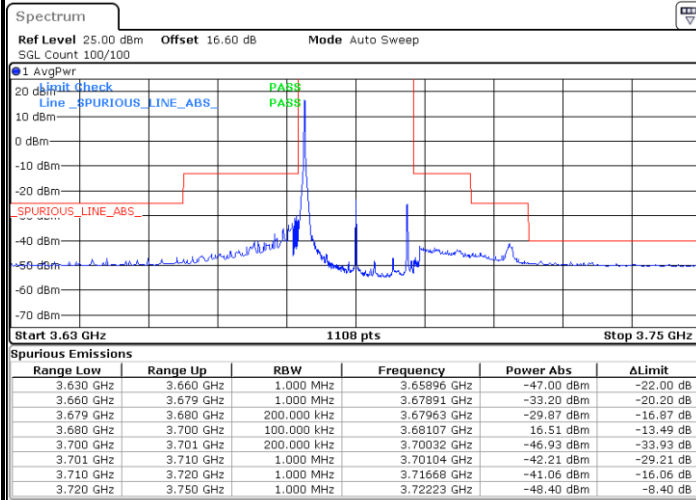
N/A



LTE Band 48 / 20MHz

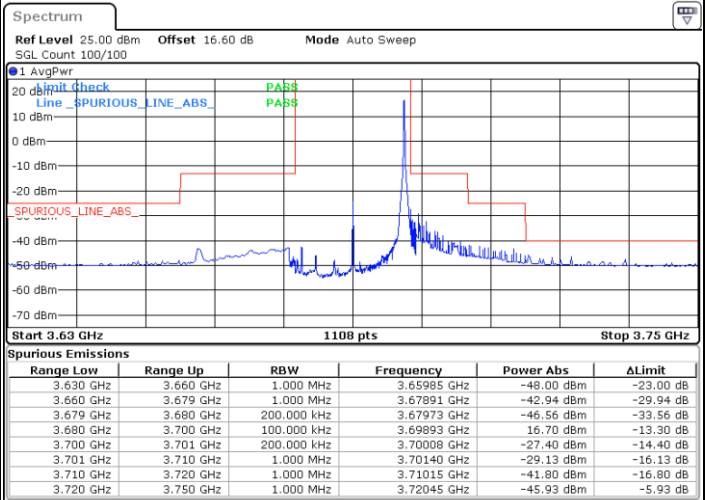
256QAM

Highest Channel / 1RB0



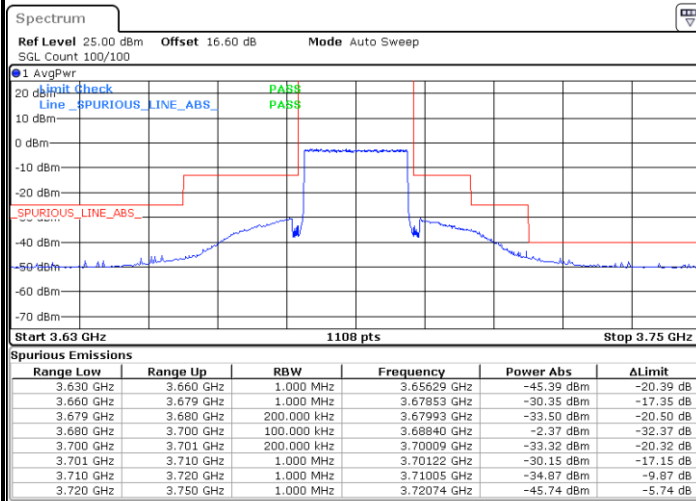
Date: 17.NOV.2021 16:50:44

Highest Channel / 1RBmax



Date: 17.NOV.2021 16:51:49

Highest Channel / FullIRB



Date: 17.NOV.2021 16:49:42

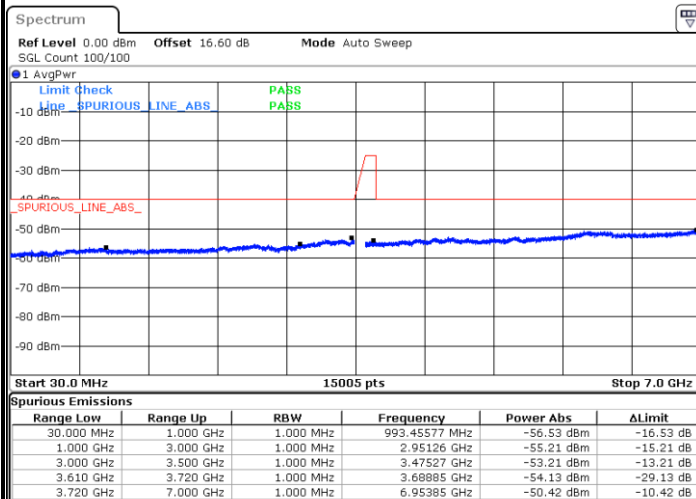
N/A



Conducted Spurious Emission

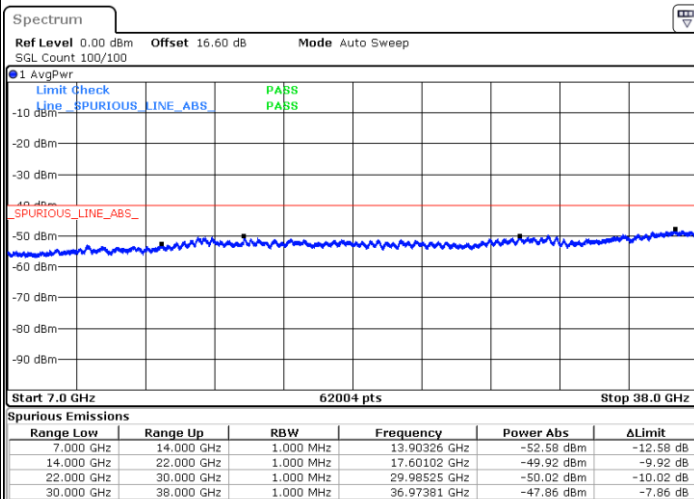
LTE Band 48 / 5MHz

Lowest Channel / QPSK



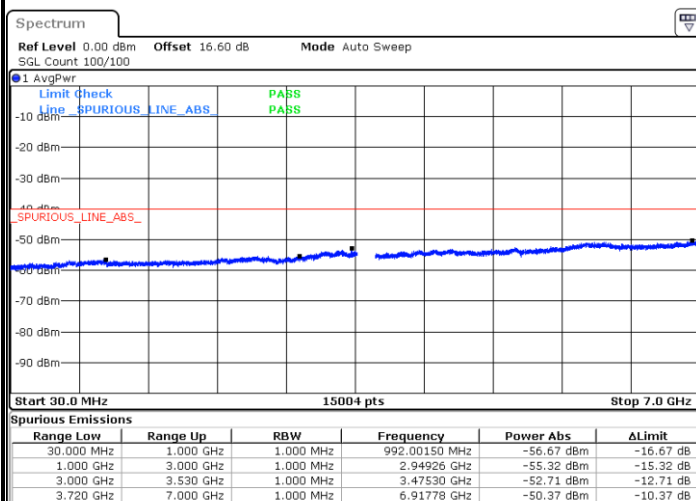
Date: 17.NOV.2021 15:41:34

Lowest Channel / QPSK



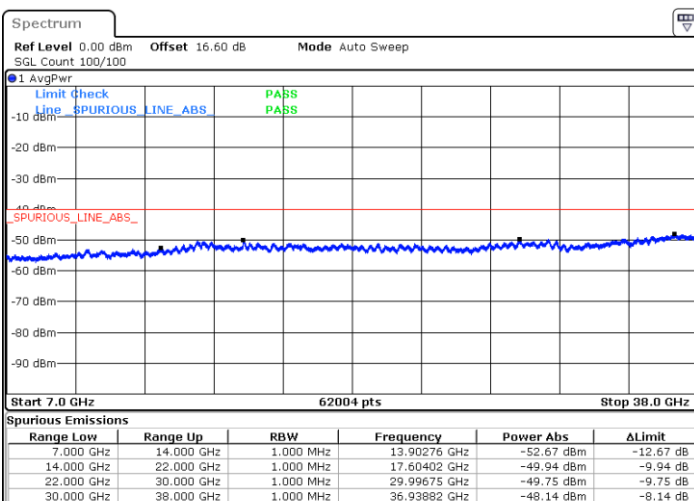
Date: 17.NOV.2021 15:48:13

Middle Channel / QPSK



Date: 17.NOV.2021 15:41:59

Middle Channel / QPSK

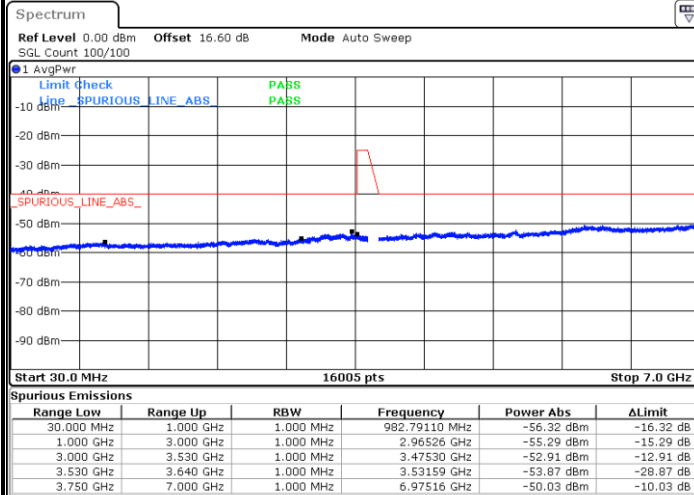


Date: 17.NOV.2021 15:49:23



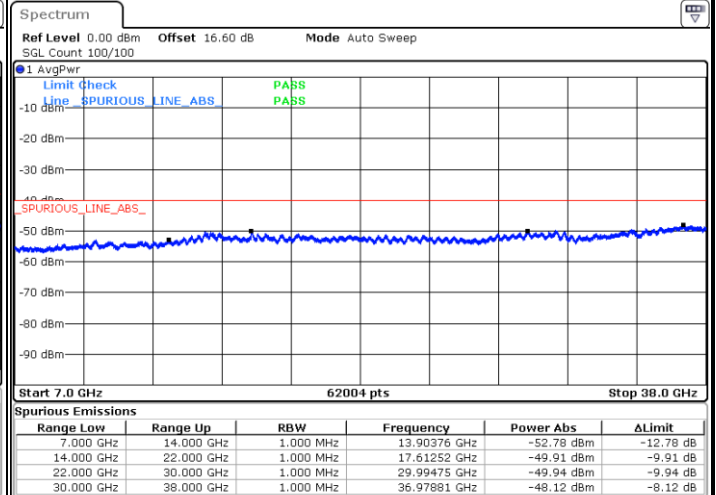
LTE Band 48 / 5MHz

Highest Channel / QPSK



Date: 17.NOV.2021 15:42:24

Highest Channel / QPSK

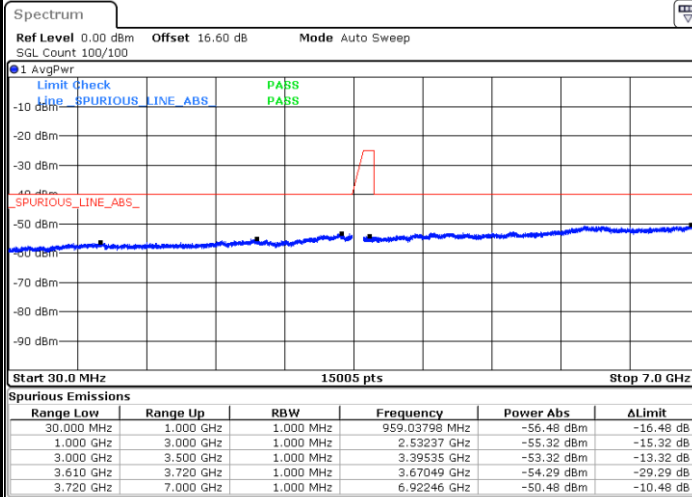


Date: 17.NOV.2021 15:50:33



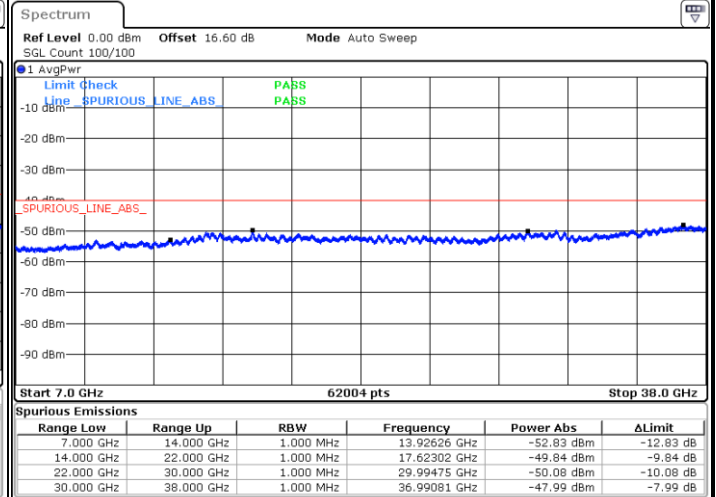
LTE Band 48 / 10MHz

Lowest Channel / QPSK



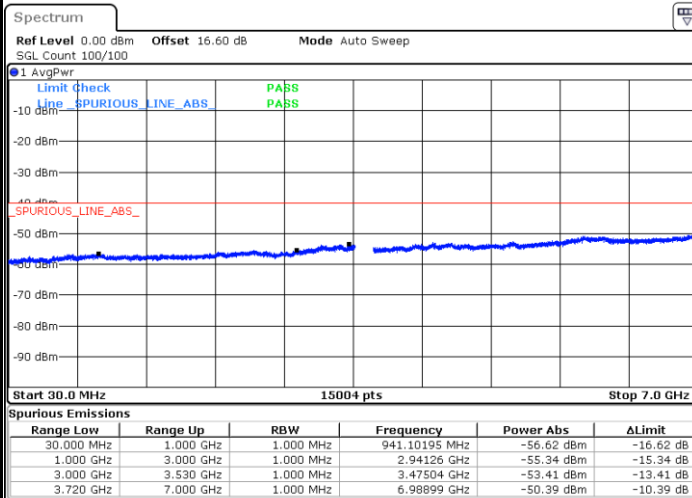
Date: 17.NOV.2021 15:42:53

Lowest Channel / QPSK



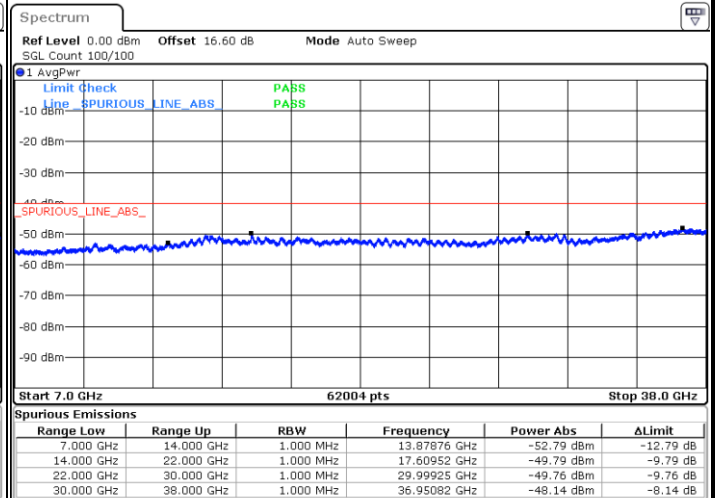
Date: 17.NOV.2021 15:51:54

Middle Channel / QPSK



Date: 17.NOV.2021 15:43:18

Middle Channel / QPSK

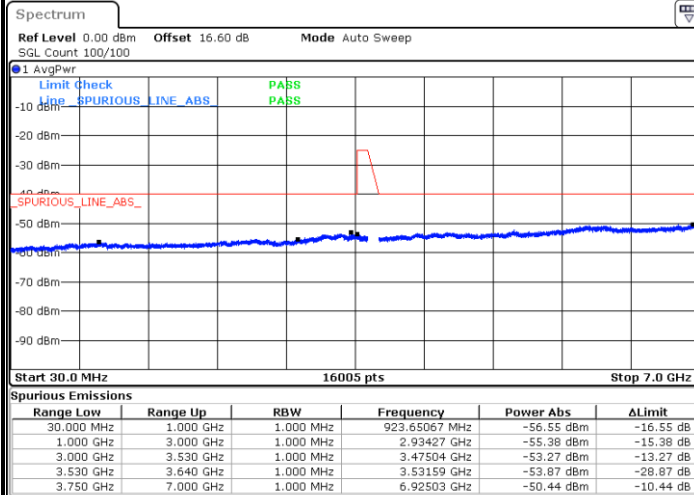


Date: 17.NOV.2021 15:53:04



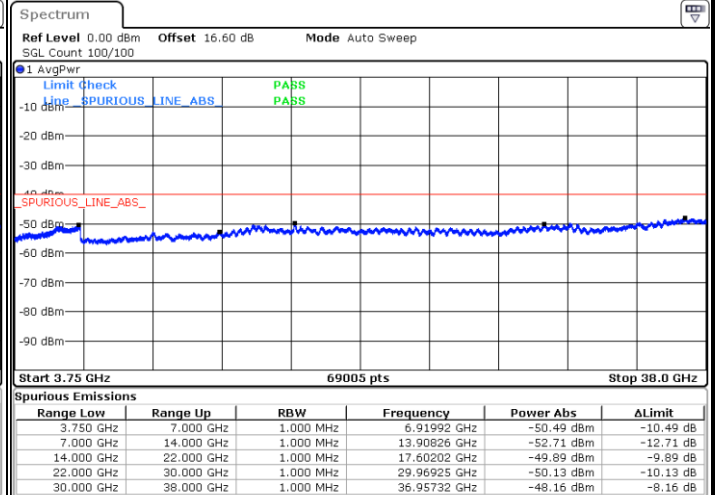
LTE Band 48 / 10MHz

Highest Channel / QPSK



Date: 17.NOV.2021 15:43:43

Highest Channel / QPSK

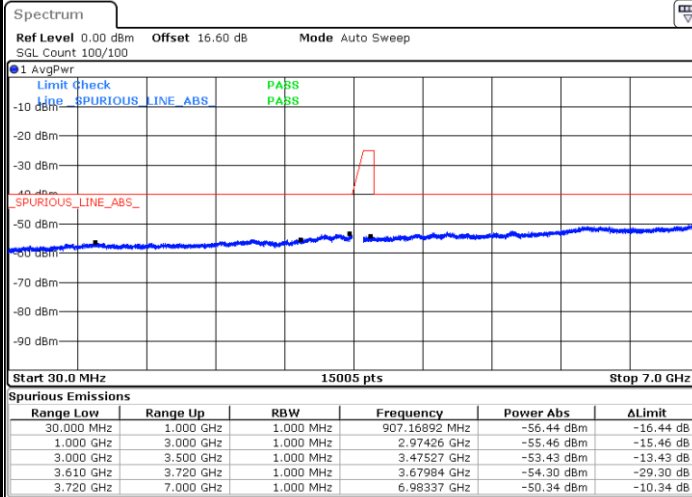


Date: 17.NOV.2021 15:54:15



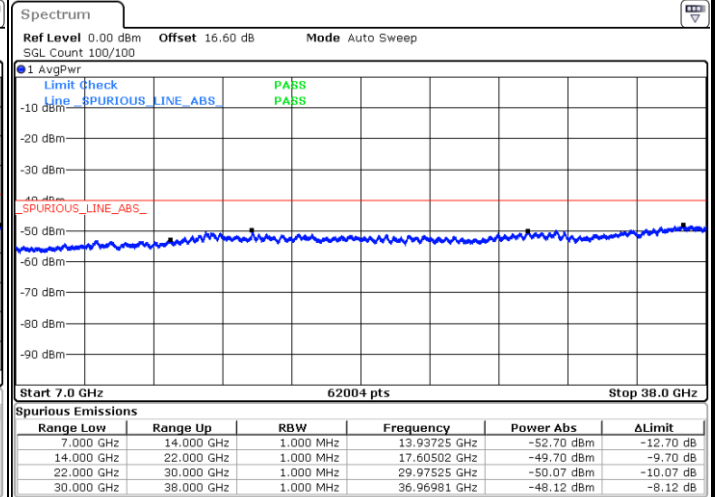
LTE Band 48 / 15MHz

Lowest Channel / QPSK



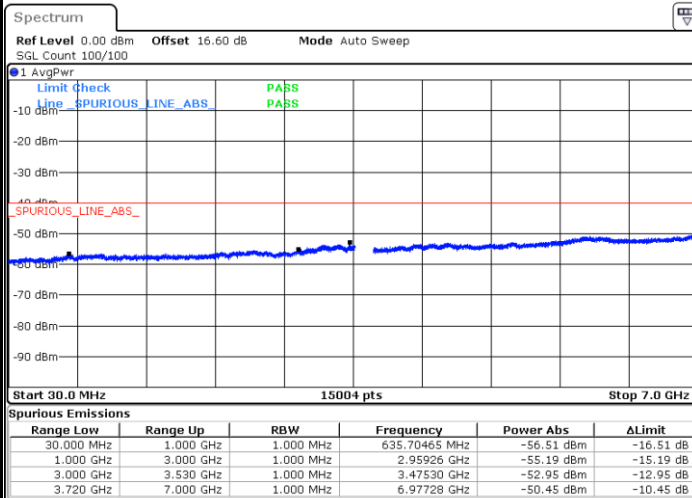
Date: 17.NOV.2021 15:44:21

Lowest Channel / QPSK



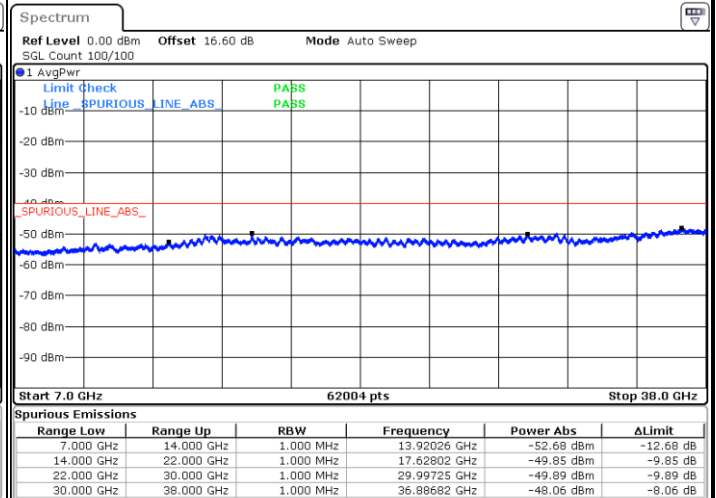
Date: 17.NOV.2021 15:55:28

Middle Channel / QPSK



Date: 17.NOV.2021 15:44:45

Middle Channel / QPSK

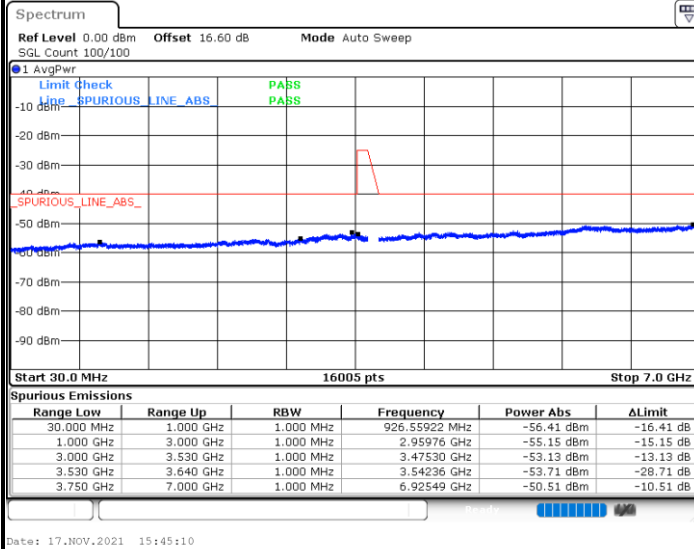


Date: 17.NOV.2021 15:56:38

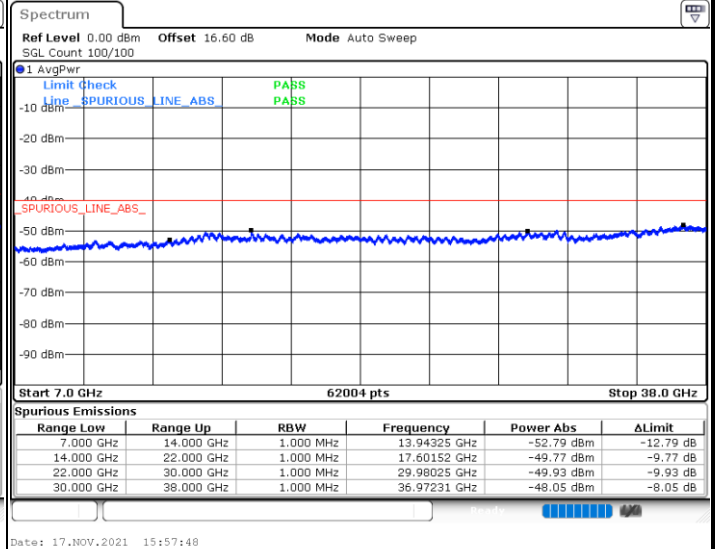


LTE Band 48 / 15MHz

Highest Channel / QPSK



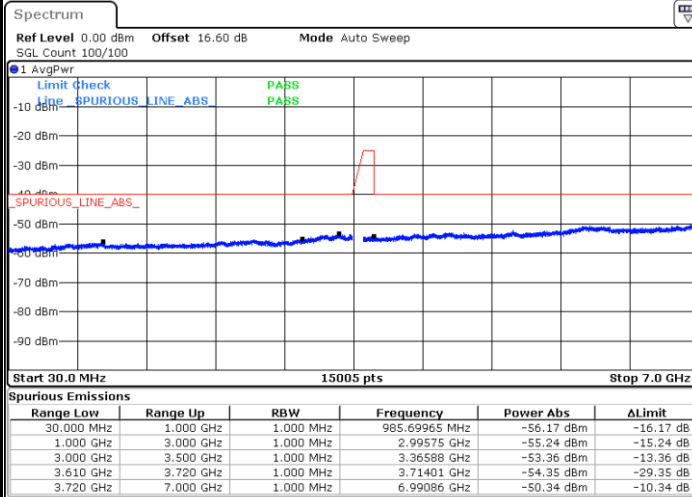
Highest Channel / QPSK





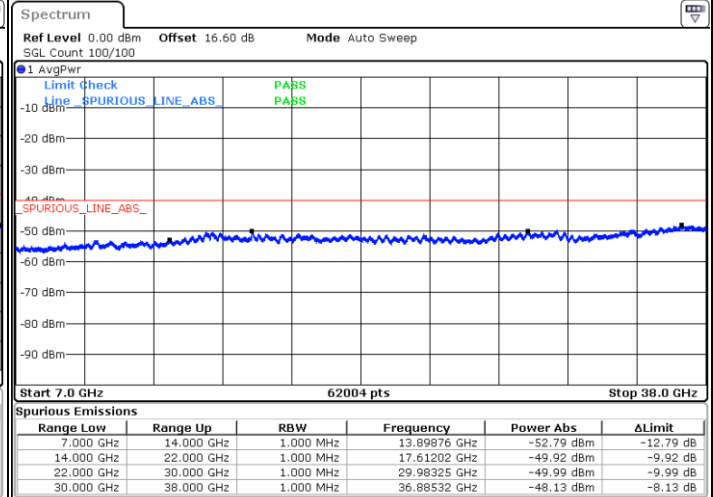
LTE Band 48 / 20MHz

Lowest Channel / QPSK



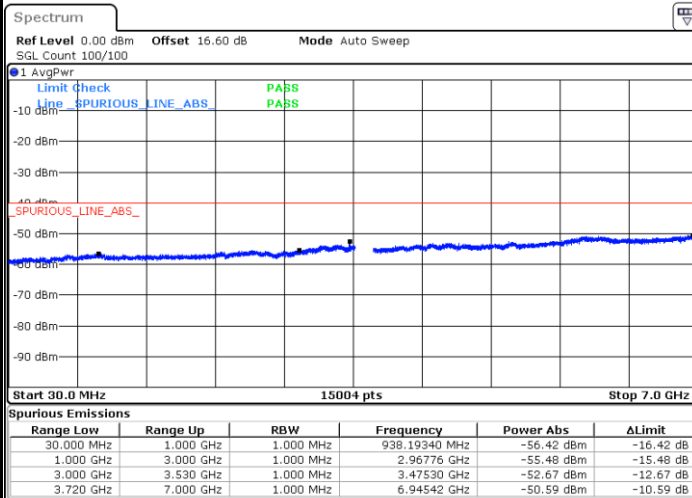
Date: 17.NOV.2021 15:45:39

Lowest Channel / QPSK



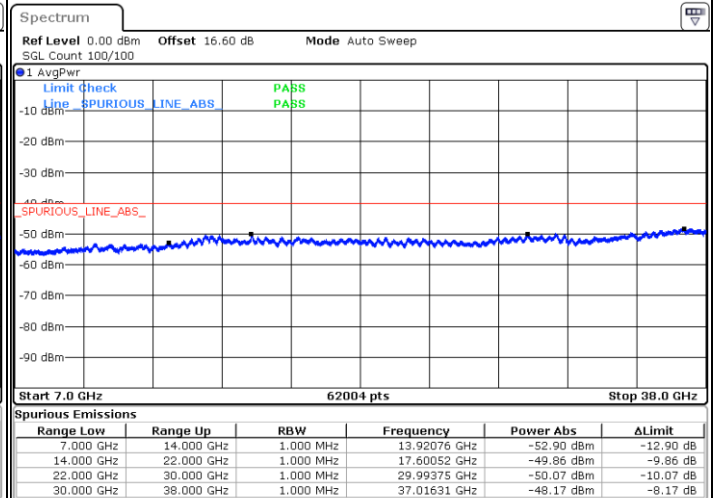
Date: 17.NOV.2021 15:59:13

Middle Channel / QPSK



Date: 17.NOV.2021 15:46:04

Middle Channel / QPSK

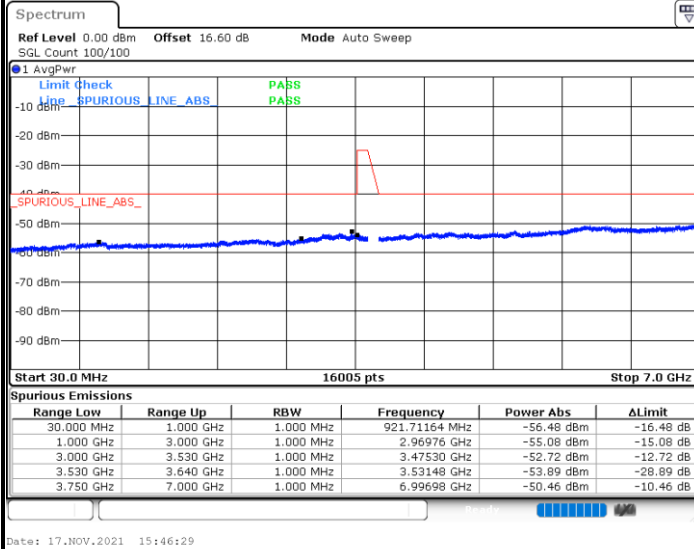


Date: 17.NOV.2021 16:00:23

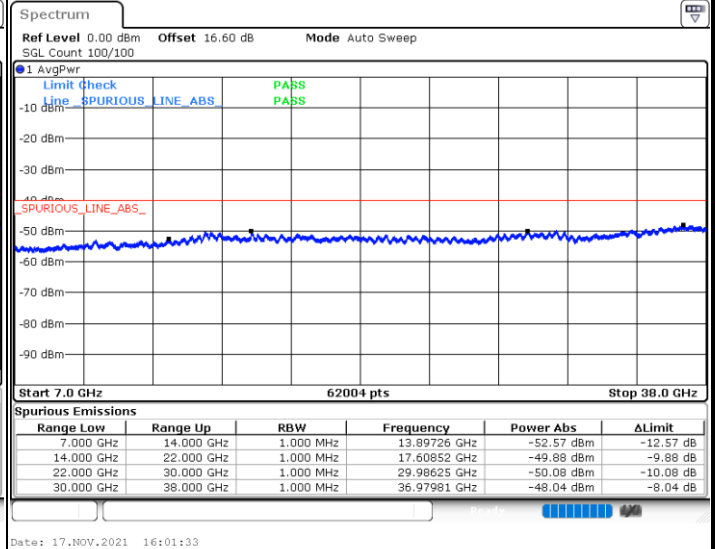


LTE Band 48 / 20MHz

Highest Channel / QPSK



Highest Channel / QPSK



Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0050	PASS
40	Normal Voltage	0.0051	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0055	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0049	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.40 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

<Primary Antenna>

<Ant. 6>

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	7100	-58.83	-40	-18.83	-59.69	-68.80	1.77	11.74	H
	10655	-58.63	-40	-18.63	-63.02	-67.06	2.47	10.90	H
	14205	-56.95	-40	-16.95	-67.31	-65.79	2.87	11.71	H
	21307	-53.58	-40	-13.58	-74.09	-70.30	1.98	18.70	H
	24859	-51.95	-40	-11.95	-76.93	-67.96	2.07	18.07	H
	28408	-51.00	-40	-11.00	-76.57	-68.24	2.32	19.56	H
	7100	-57.07	-40	-17.07	-57.54	-67.04	1.77	11.74	V
	10655	-57.99	-40	-17.99	-62.12	-66.42	2.47	10.90	V
	14205	-57.02	-40	-17.02	-67.1	-65.86	2.87	11.71	V
	21307	-54.18	-40	-14.18	-74.56	-70.90	1.98	18.70	V
	24859	-50.48	-40	-10.48	-76.66	-66.49	2.07	18.07	V
	28408	-49.56	-40	-9.56	-76.95	-66.80	2.32	19.56	V
Middle	7230	-59.58	-40	-19.58	-60.86	-69.27	1.84	11.53	H
	10850	-58.48	-40	-18.48	-63.28	-66.81	2.57	10.90	H
	14462	-56.80	-40	-16.80	-67.15	-65.04	2.85	11.09	H
	18077	-54.58	-40	-14.58	-70.92	-70.81	1.76	17.98	H
	21696	-53.89	-40	-13.89	-74.11	-70.68	1.99	18.78	H
	25314	-51.31	-40	-11.31	-76.81	-67.91	2.14	18.74	H
	7230	-59.16	-40	-19.16	-60.18	-68.85	1.84	11.53	V
	10850	-54.56	-40	-14.56	-59.15	-62.89	2.57	10.90	V
	14462	-54.42	-40	-14.42	-63.95	-62.66	2.85	11.09	V
	18077	-55.33	-40	-15.33	-70.74	-71.56	1.76	17.98	V
	21696	-53.86	-40	-13.86	-74.07	-70.65	1.99	18.78	V
	25314	-50.15	-40	-10.15	-76.92	-66.75	2.14	18.74	V



Highest	7360	-59.39	-40	-19.39	-60.77	-68.80	1.91	11.32	H
	11045	-58.73	-40	-18.73	-64.07	-67.05	2.63	10.95	H
	14724	-56.24	-40	-16.24	-67.73	-65.04	2.91	11.72	H
	18410	-55.26	-40	-15.26	-72.34	-71.31	1.87	17.92	H
	22084	-53.99	-40	-13.99	-74.89	-70.78	2.08	18.87	H
	25767	-50.83	-40	-10.83	-77.01	-67.85	2.03	19.05	H
									H
	7360	-58.25	-40	-18.25	-59.44	-67.66	1.91	11.32	V
	11045	-54.95	-40	-14.95	-60.12	-63.27	2.63	10.95	V
	14724	-57.66	-40	-17.66	-67.48	-66.46	2.91	11.72	V
	18410	-55.92	-40	-15.92	-72.12	-71.97	1.87	17.92	V
	22084	-53.69	-40	-13.69	-74.6	-70.48	2.08	18.87	V
	25767	-49.26	-40	-9.26	-76.63	-66.28	2.03	19.05	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	7100	-59.10	-40	-19.10	-59.96	-69.07	1.77	11.74	H
	10655	-55.52	-40	-15.52	-59.91	-63.95	2.47	10.90	H
	14205	-56.60	-40	-16.60	-67.02	-65.44	2.87	11.71	H
	21307	-54.70	-40	-14.70	-76.51	-71.42	1.98	18.70	H
	24857	-52.18	-40	-12.18	-76.94	-68.19	2.07	18.07	H
	28411	-50.84	-40	-10.84	-76.15	-68.09	2.32	19.56	H
									H
	7100	-55.94	-40	-15.94	-56.41	-65.91	1.77	11.74	V
	10655	-49.54	-40	-9.54	-53.67	-57.97	2.47	10.90	V
	14205	-53.91	-40	-13.91	-63.99	-62.75	2.87	11.71	V
	21307	-54.45	-40	-14.45	-76.13	-71.17	1.98	18.70	V
	24857	-50.82	-40	-10.82	-76.79	-66.83	2.07	18.07	V
	28411	-48.95	-40	-8.95	-76.08	-66.20	2.32	19.56	V
Middle	7230	-59.94	-40	-19.94	-61.22	-69.63	1.84	11.53	H
	10850	-56.27	-40	-16.27	-61.07	-64.60	2.57	10.90	H
	14462	-56.88	-40	-16.88	-67.23	-65.12	2.85	11.09	H
	18077	-54.57	-40	-14.57	-72.51	-70.80	1.76	17.98	H
	21696	-54.50	-40	-14.50	-75.9	-71.29	1.99	18.78	H
	25314	-48.42	-40	-8.42	-73.62	-65.02	2.14	18.74	H
									H
	7230	-58.08	-40	-18.08	-59.1	-67.77	1.84	11.53	V
	10850	-48.44	-40	-8.44	-53.03	-56.77	2.57	10.90	V
	14462	-55.25	-40	-15.25	-64.78	-63.49	2.85	11.09	V
	18077	-55.15	-40	-15.15	-72.16	-71.38	1.76	17.98	V
	21696	-54.53	-40	-14.53	-75.92	-71.32	1.99	18.78	V
	25314	-47.76	-40	-7.76	-74.23	-64.36	2.14	18.74	V



Highest	7360	-59.83	-40	-19.83	-61.21	-69.24	1.91	11.32	H
	11045	-59.00	-40	-19.00	-64.34	-67.32	2.63	10.95	H
	14724	-55.88	-40	-15.88	-67.37	-64.68	2.91	11.72	H
	18410	-55.67	-40	-15.67	-73.95	-71.72	1.87	17.92	H
	22086	-54.75	-40	-14.75	-76.66	-71.54	2.08	18.87	H
	25770	-51.10	-40	-11.10	-76.99	-68.12	2.03	19.05	H
									H
	7360	-58.06	-40	-18.06	-59.25	-67.47	1.91	11.32	V
	11045	-55.00	-40	-15.00	-60.17	-63.32	2.63	10.95	V
	14724	-57.38	-40	-17.38	-67.2	-66.18	2.91	11.72	V
	18410	-56.32	-40	-16.32	-73.72	-72.37	1.87	17.92	V
	22086	-55.11	-40	-15.11	-77.01	-71.90	2.08	18.87	V
	25770	-49.93	-40	-9.93	-77	-66.95	2.03	19.05	V
									V

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

————THE END————