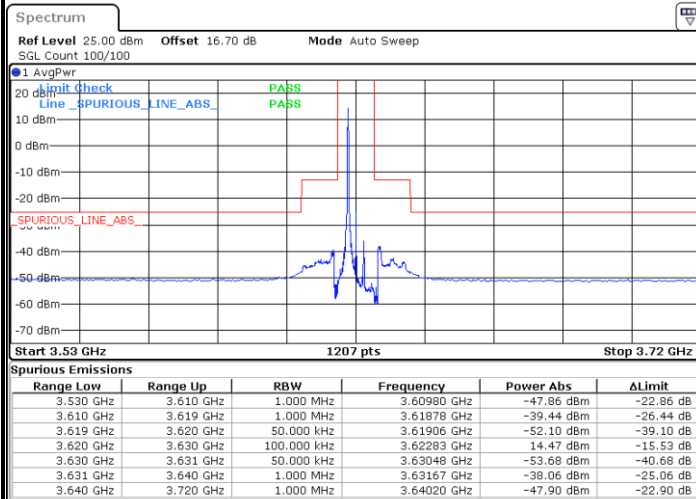




LTE Band 48 / 5MHz

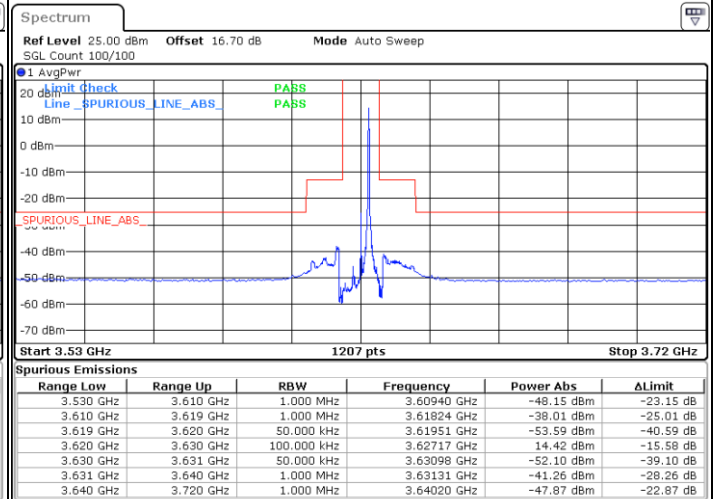
256QAM

Middle Channel / 1RB0



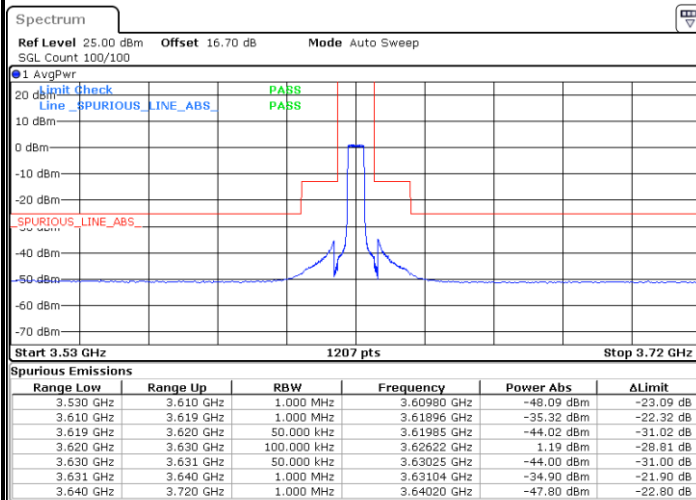
Date: 25 JUN.2021 09:11:23

Middle Channel / 1RBmax



Date: 25 JUN.2021 09:12:26

Middle Channel / FullIRB



Date: 25 JUN.2021 09:10:05

N/A

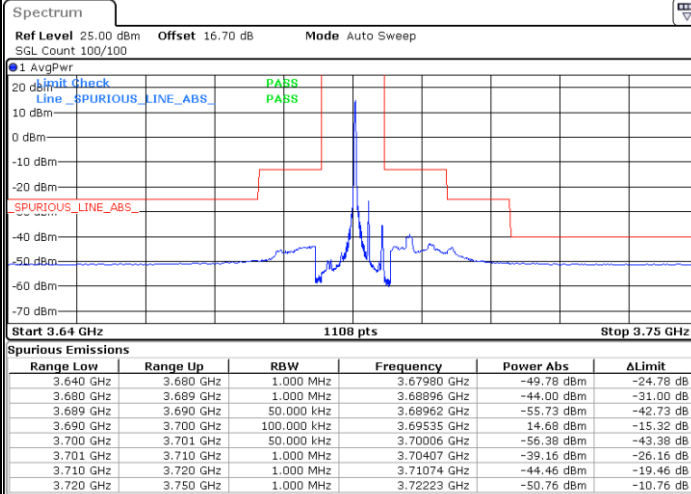


LTE Band 48 / 5MHz

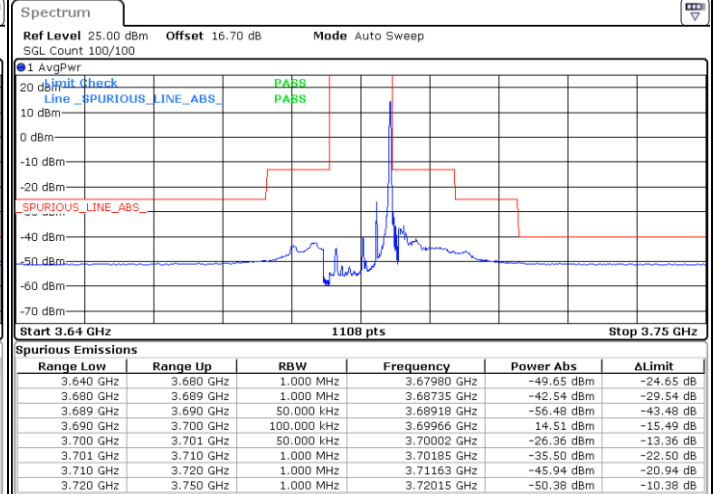
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



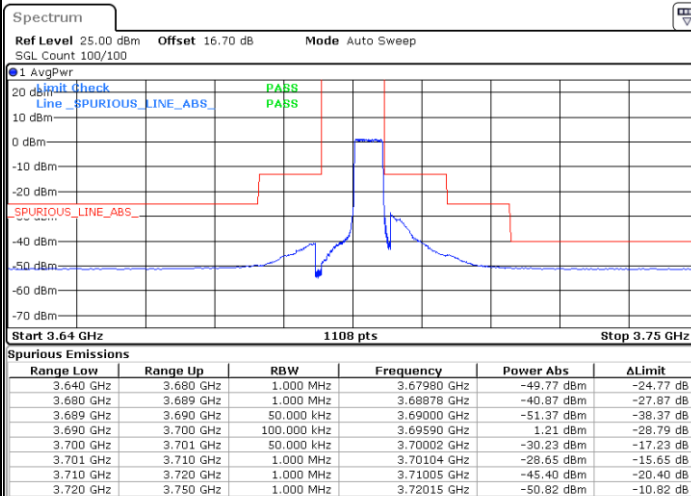
Date: 25 JUN.2021 09:15:16



Date: 25 JUN.2021 09:16:59

Highest Channel / FullIRB

N/A



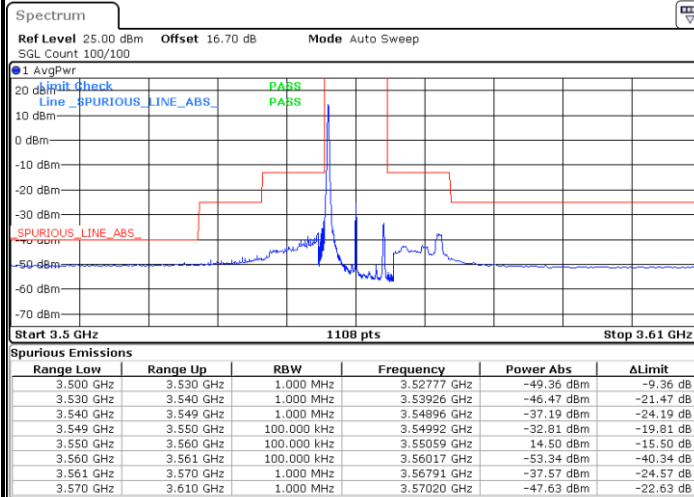
Date: 25 JUN.2021 09:13:42



LTE Band 48 / 10MHz

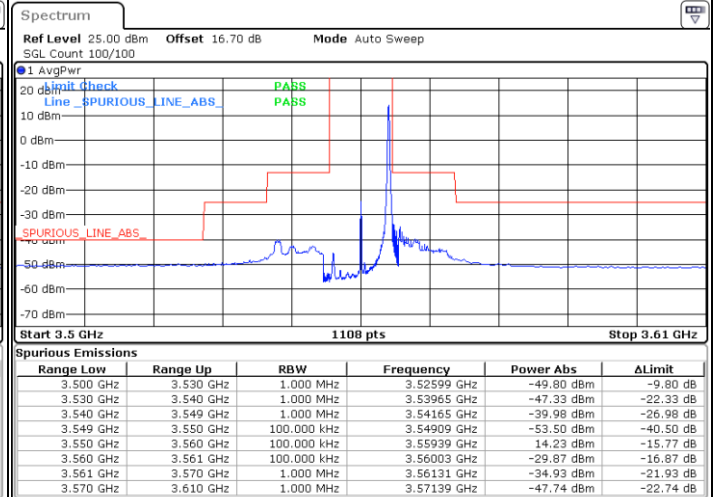
256QAM

Lowest Channel / 1RB0



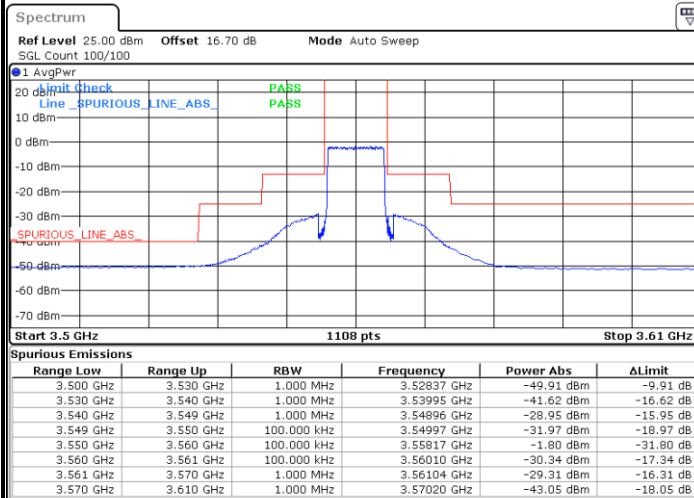
Date: 25 JUN.2021 09:31:47

Lowest Channel / 1RBmax



Date: 25 JUN.2021 09:32:51

Lowest Channel / FullIRB



Date: 25 JUN.2021 09:30:41

N/A

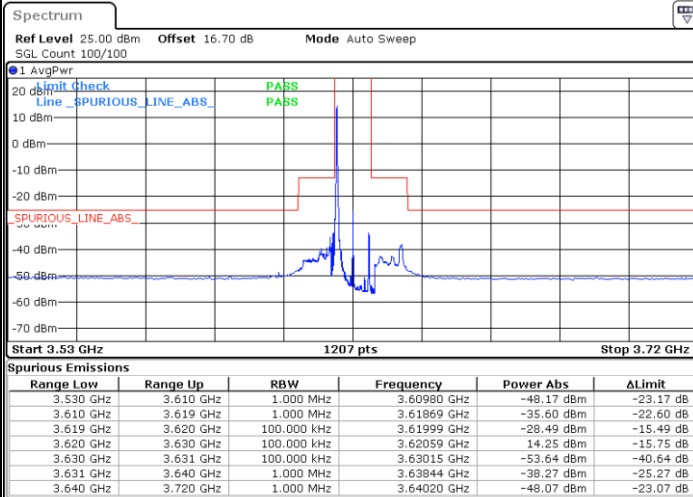


LTE Band 48 / 10MHz

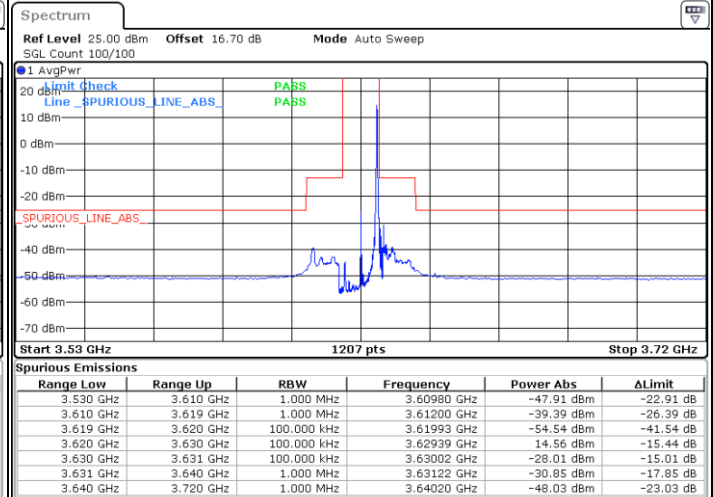
256QAM

MiddleChannel / 1RB0

Middle Channel / 1RBmax



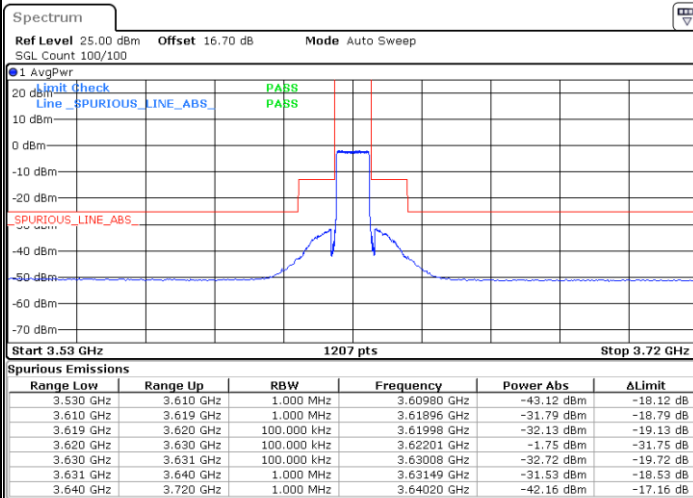
Date: 25 JUN.2021 09:35:04



Date: 25 JUN.2021 09:36:05

Middle Channel / FullIRB

N/A



Date: 25 JUN.2021 09:34:01

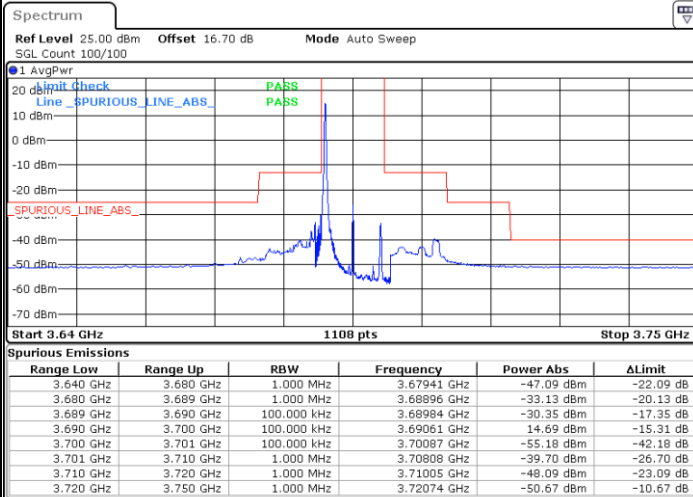


LTE Band 48 / 10MHz

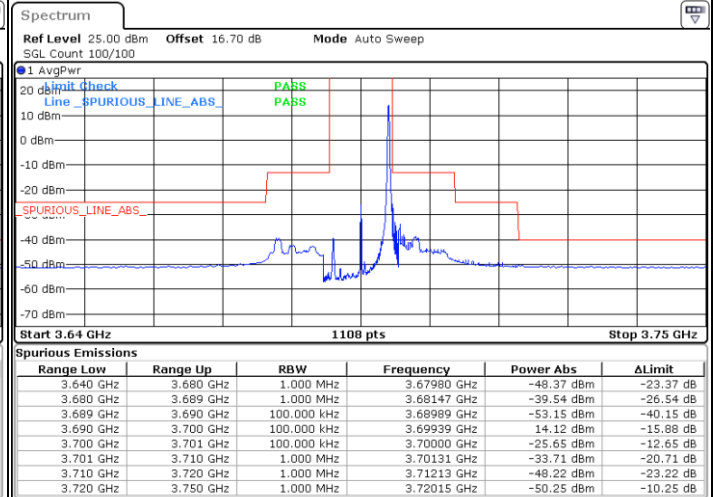
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



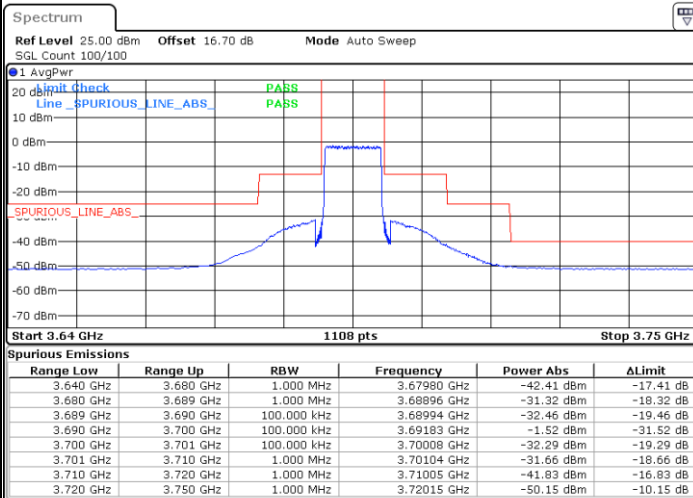
Date: 25 JUN 2021 09:38:32



Date: 25 JUN 2021 09:39:32

Highest Channel / FullIRB

N/A



Date: 25 JUN 2021 09:37:15

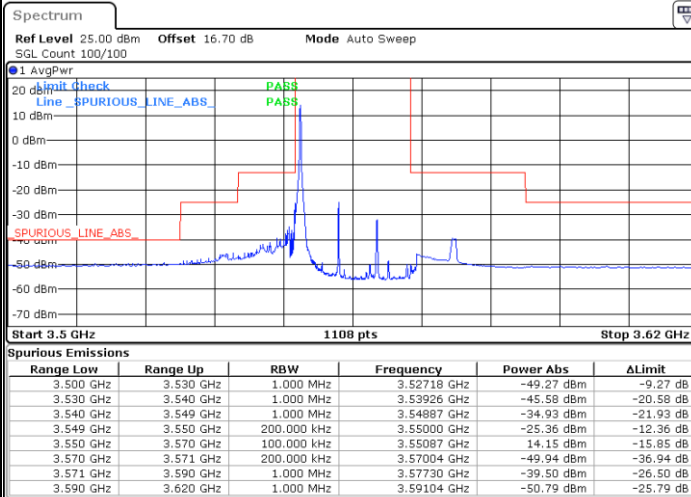


LTE Band 48 / 15MHz

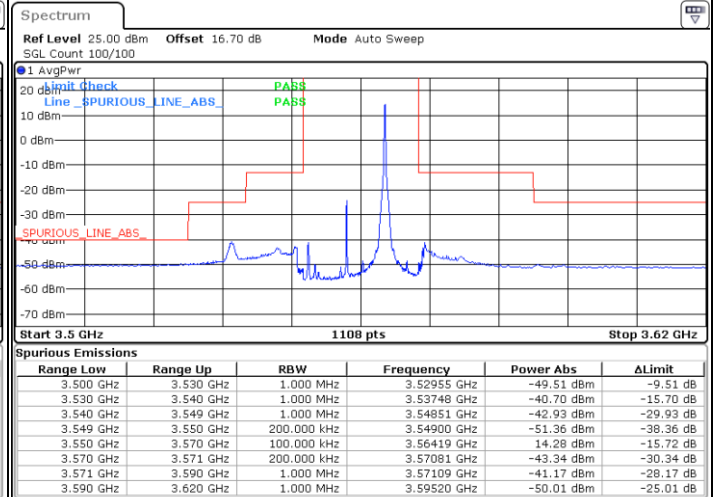
256QAM

Lowest Channel / 1RB0

Lowest Channel / 1RBmax



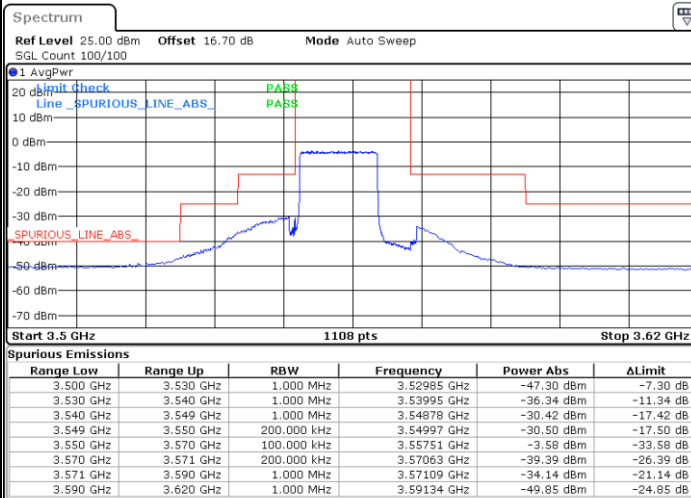
Date: 25 JUN.2021 09:41:58



Date: 25 JUN.2021 09:43:08

Lowest Channel / FullIRB

N/A



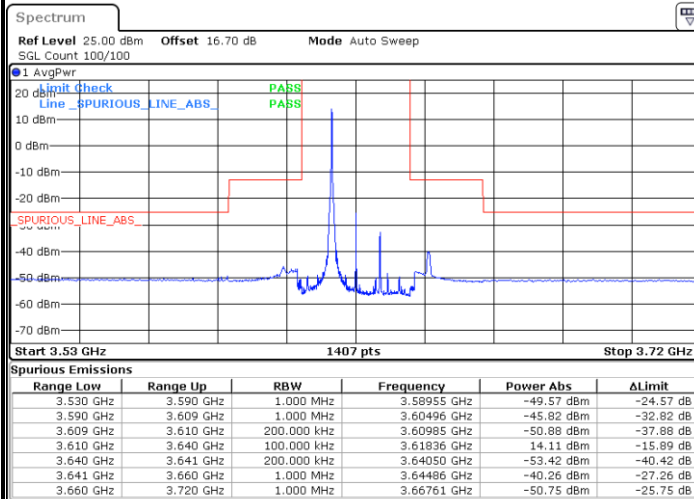
Date: 25 JUN.2021 09:40:54



LTE Band 48 / 15MHz

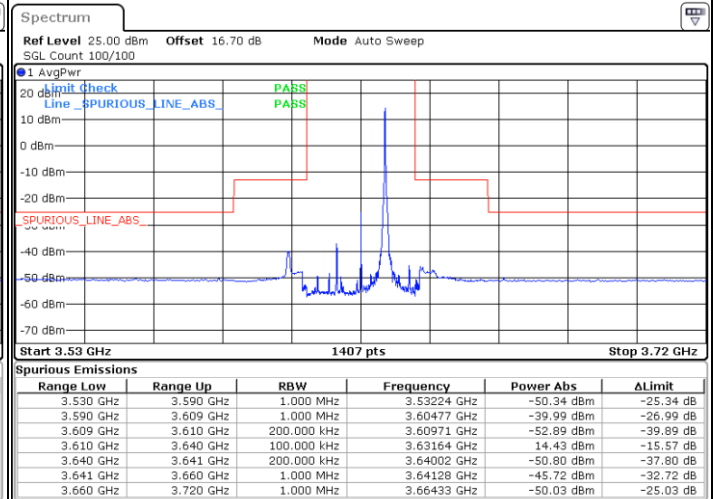
256QAM

Middle Channel / 1RB0



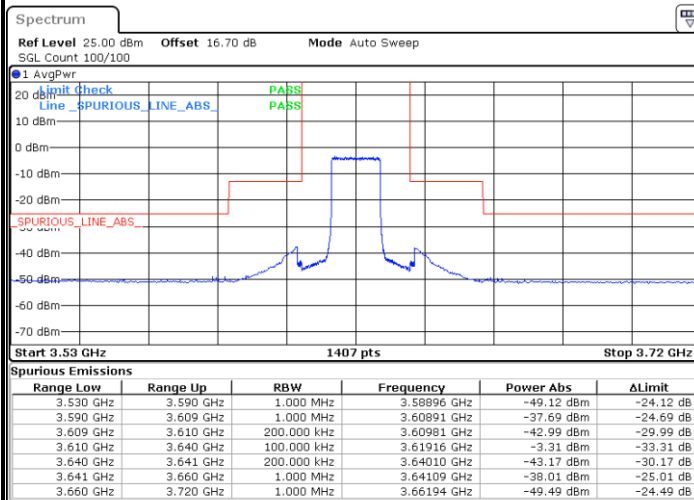
Date: 25 JUN.2021 09:45:30

Middle Channel / 1RBmax



Date: 25 JUN.2021 09:47:10

Middle Channel / FullRB



Date: 25 JUN.2021 09:44:24

N/A

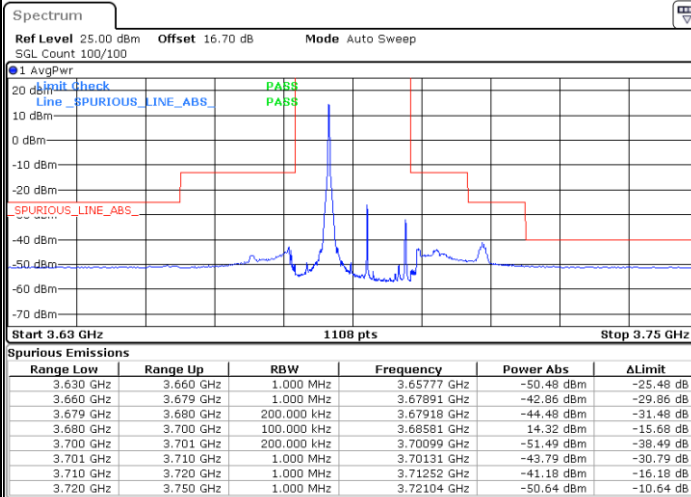


LTE Band 48 / 15MHz

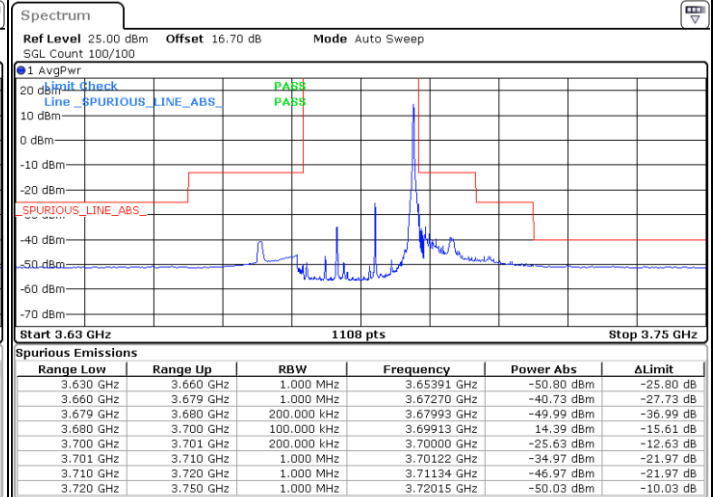
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



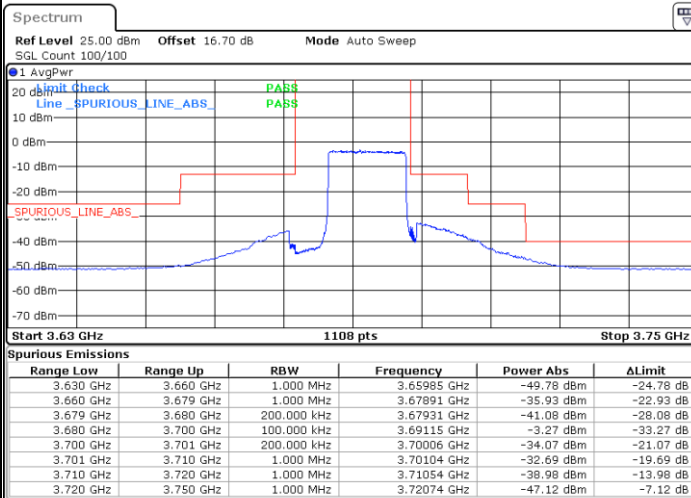
Date: 25 JUN.2021 09:50:55



Date: 25 JUN.2021 09:52:10

Highest Channel / FullIRB

N/A



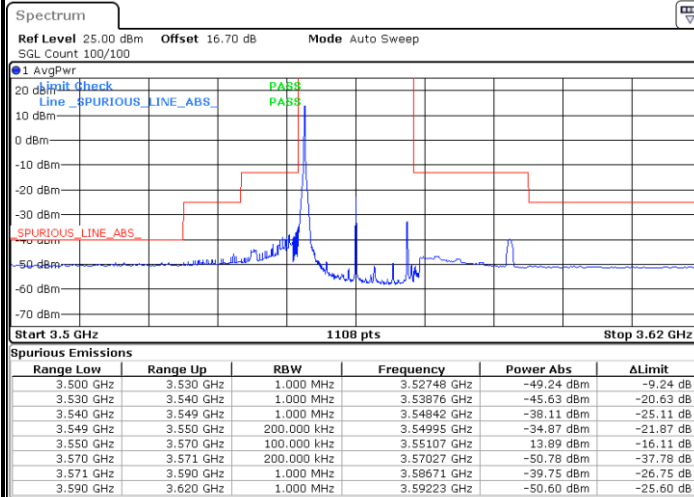
Date: 25 JUN.2021 09:49:49



LTE Band 48 / 20MHz

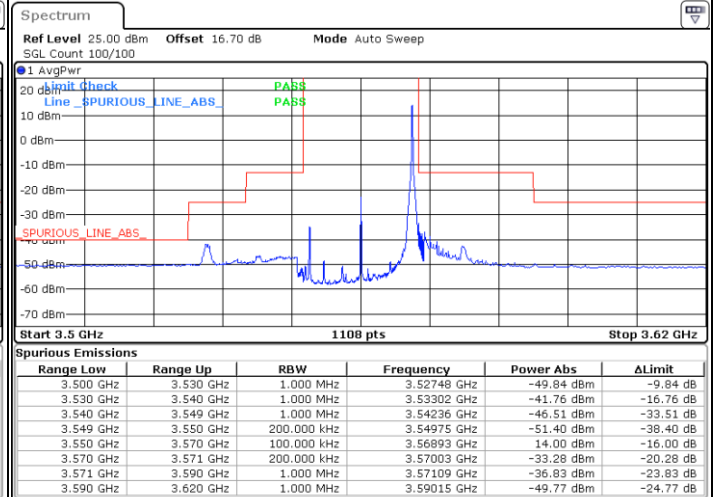
256QAM

Lowest Channel / 1RB0



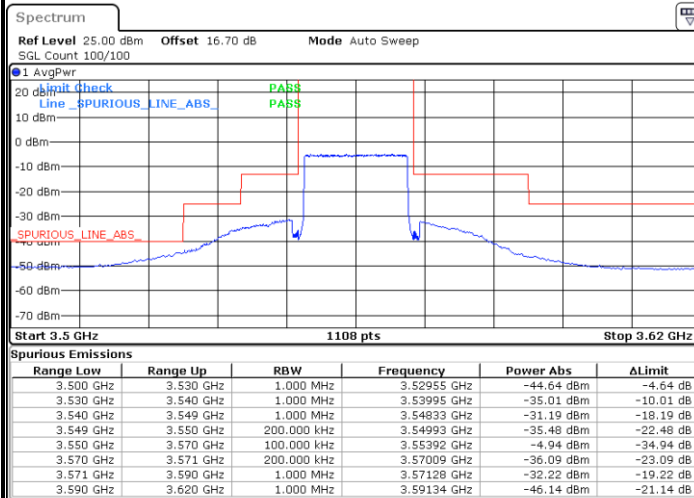
Date: 25 JUN.2021 09:54:53

Lowest Channel / 1RBmax



Date: 25 JUN.2021 09:56:04

Lowest Channel / FullIRB



Date: 25 JUN.2021 09:53:49

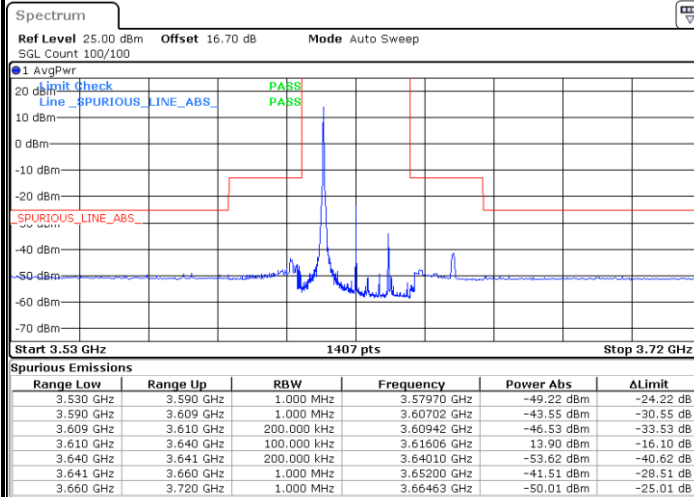
N/A



LTE Band 48 / 20MHz

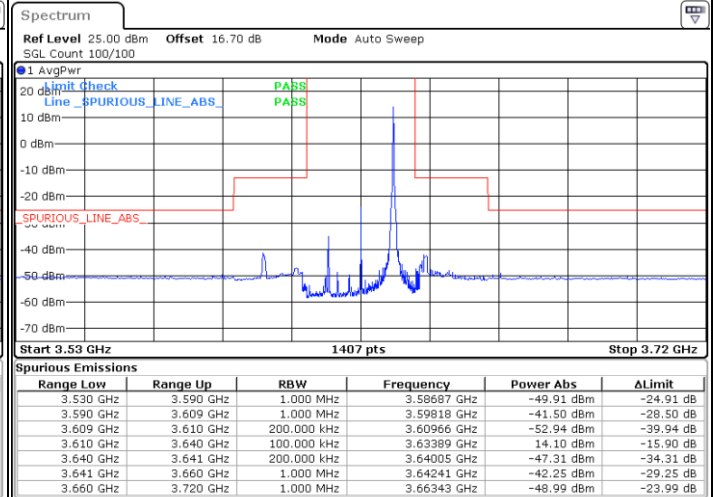
256QAM

Middle Channel / 1RB0



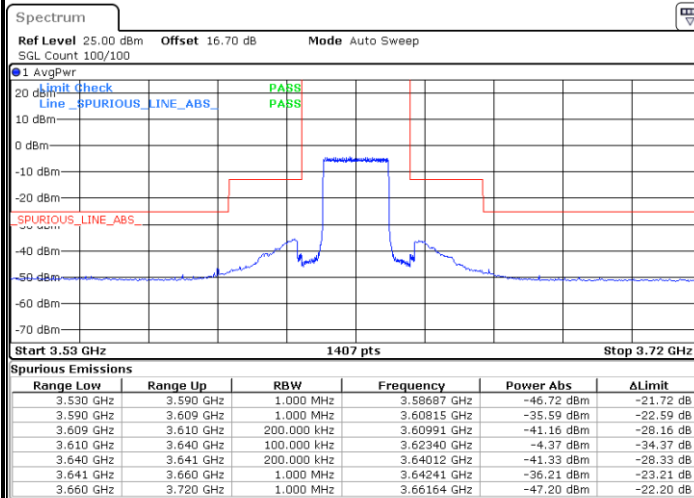
Date: 25 JUN.2021 09:58:40

Middle Channel / 1RBmax



Date: 25 JUN.2021 10:00:09

Middle Channel / FullRB



Date: 25 JUN.2021 09:57:35

N/A

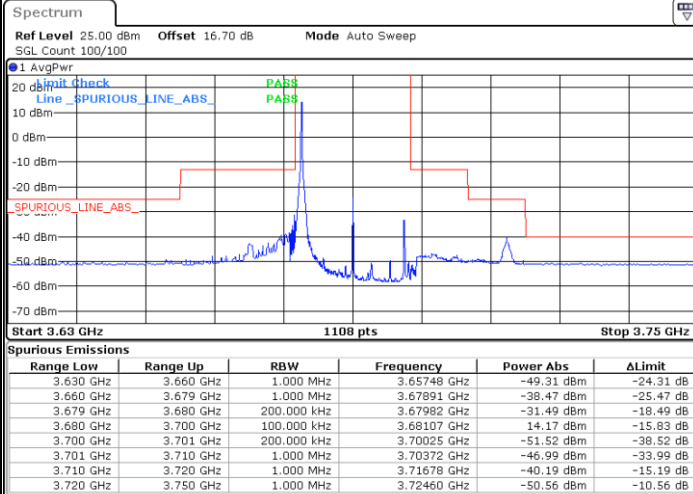


LTE Band 48 / 20MHz

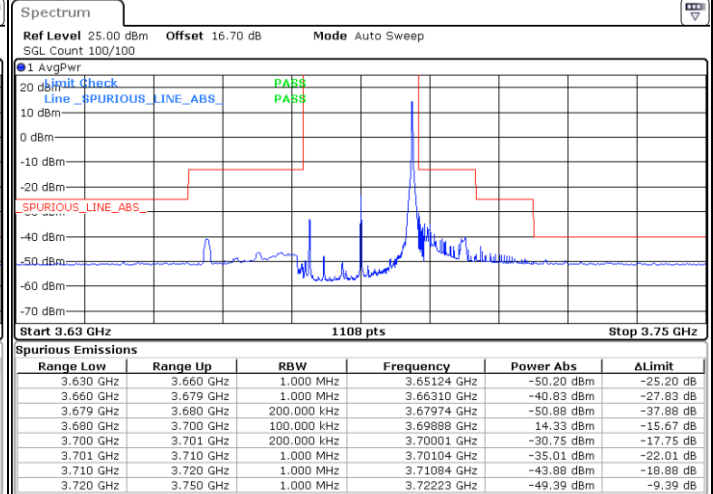
256QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



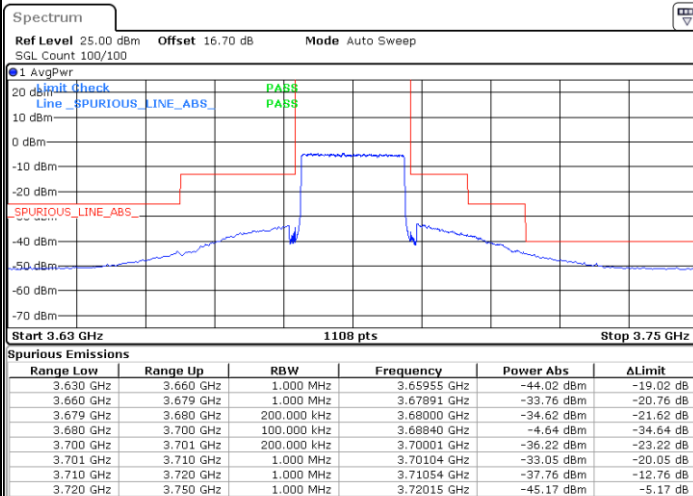
Date: 25 JUN.2021 10:02:39



Date: 25 JUN.2021 10:03:47

Highest Channel / FullIRB

N/A



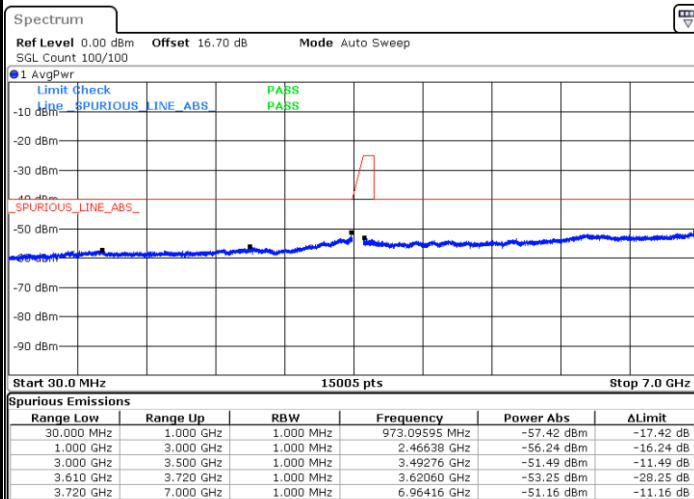
Date: 25 JUN.2021 10:01:27



Conducted Spurious Emission

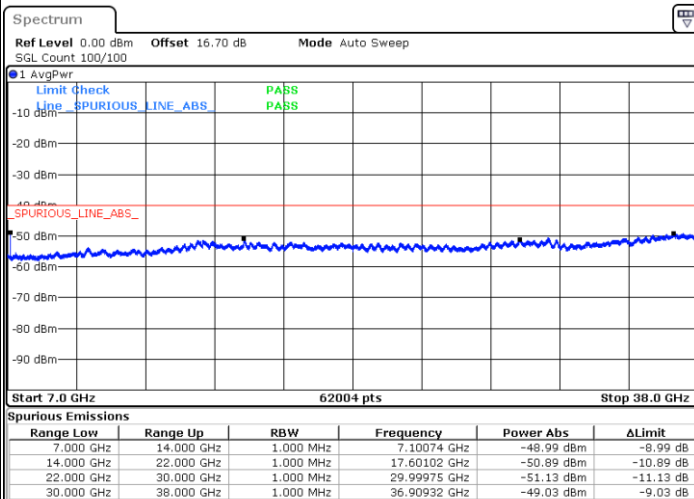
LTE Band 48 / 5MHz

Lowest Channel / QPSK



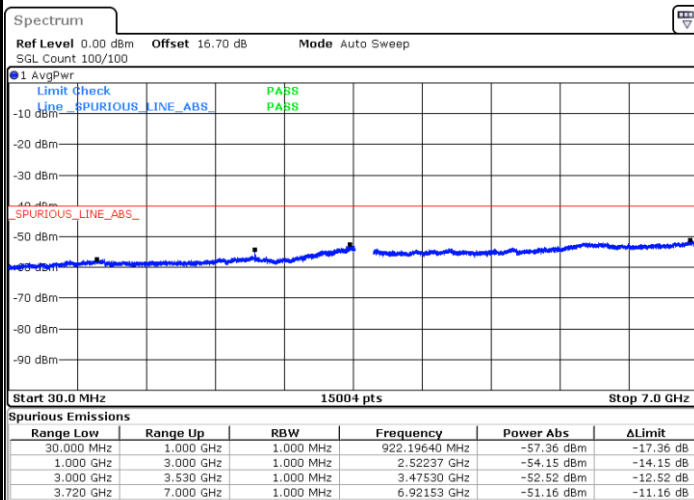
Date: 24.JUN.2021 19:49:00

Lowest Channel / QPSK



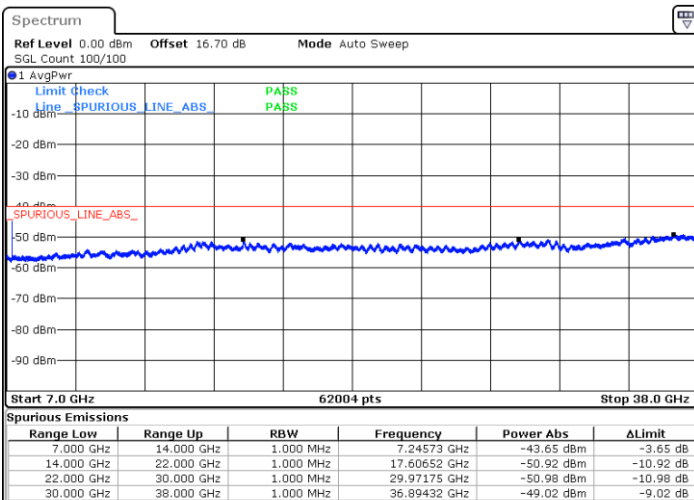
Date: 24.JUN.2021 19:56:42

Middle Channel / QPSK



Date: 24.JUN.2021 19:49:27

Middle Channel / QPSK

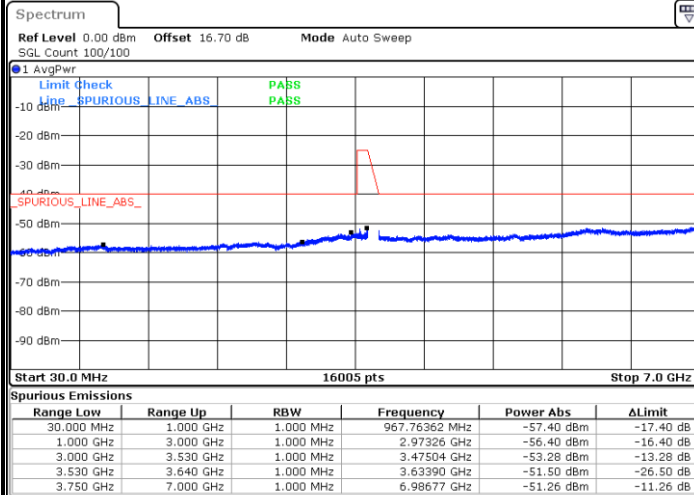


Date: 24.JUN.2021 19:57:53



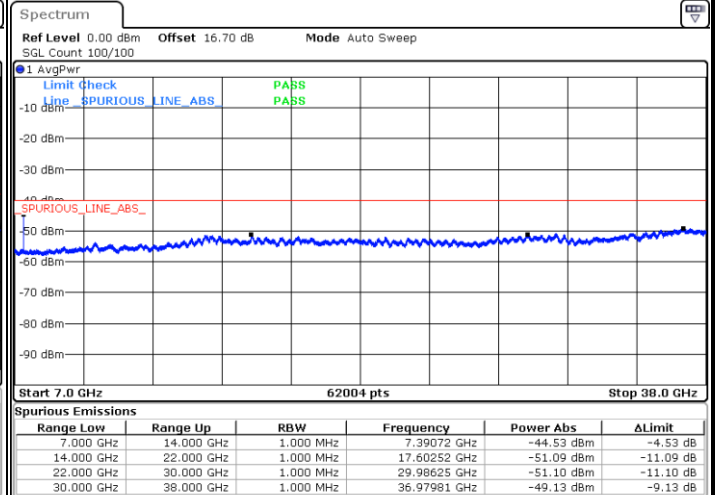
LTE Band 48 / 5MHz

Highest Channel / QPSK



Date: 24.JUN.2021 19:49:53

Highest Channel / QPSK

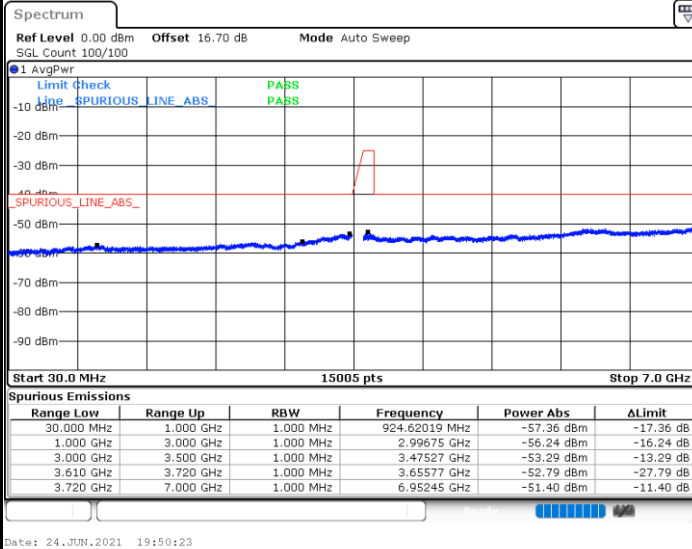


Date: 24.JUN.2021 19:59:04

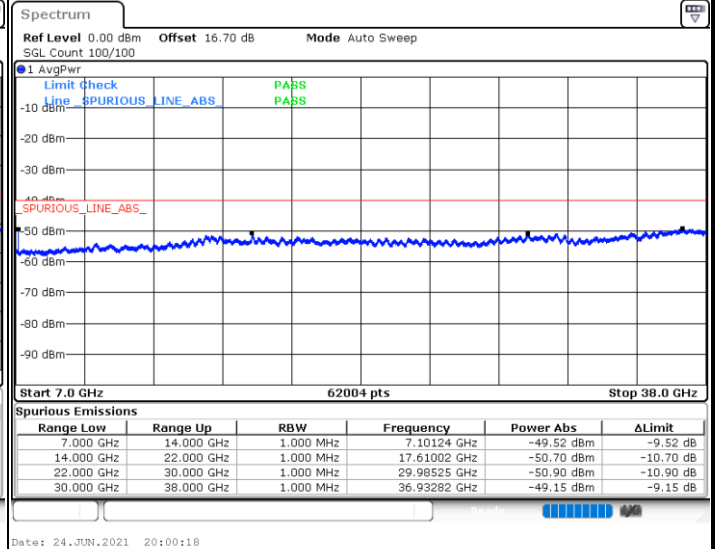


LTE Band 48 / 10MHz

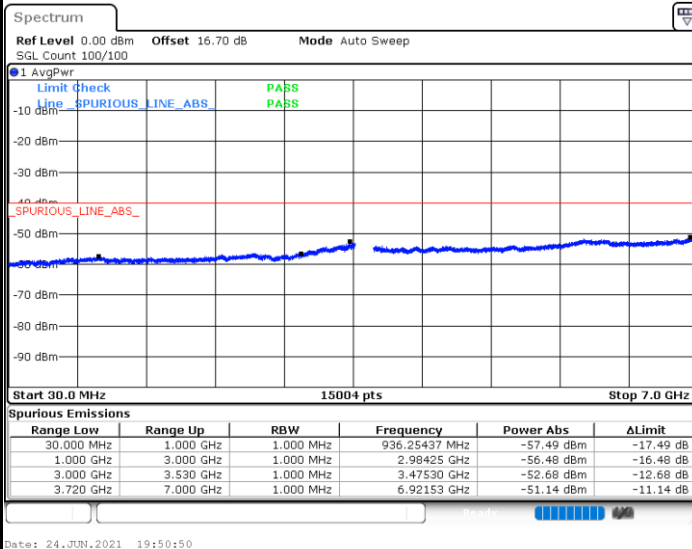
Lowest Channel / QPSK



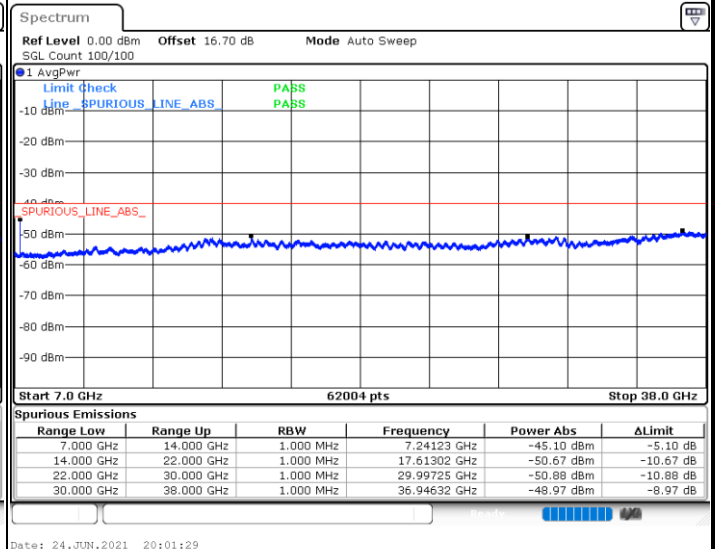
Lowest Channel / QPSK



Middle Channel / QPSK



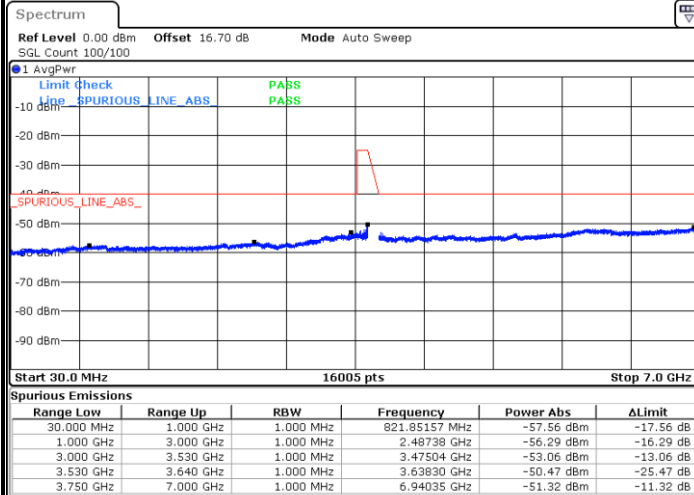
Middle Channel / QPSK





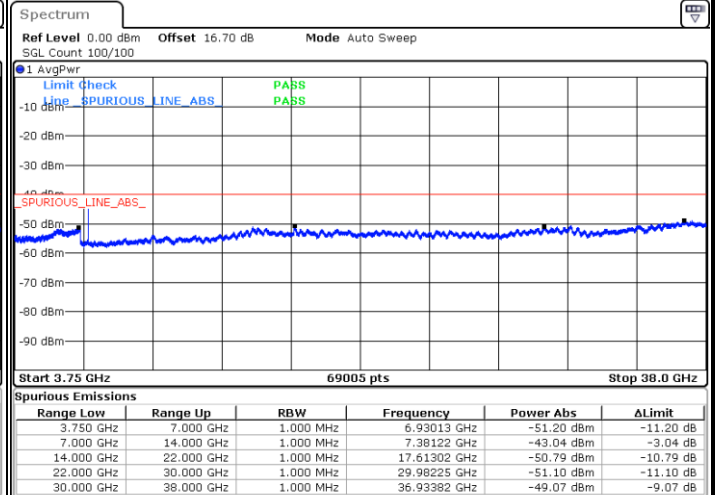
LTE Band 48 / 10MHz

Highest Channel / QPSK



Date: 24.JUN.2021 19:51:16

Highest Channel / QPSK

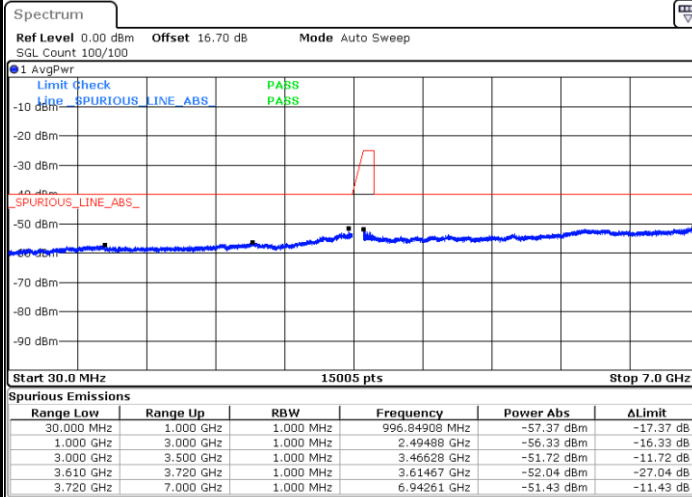


Date: 24.JUN.2021 20:02:40



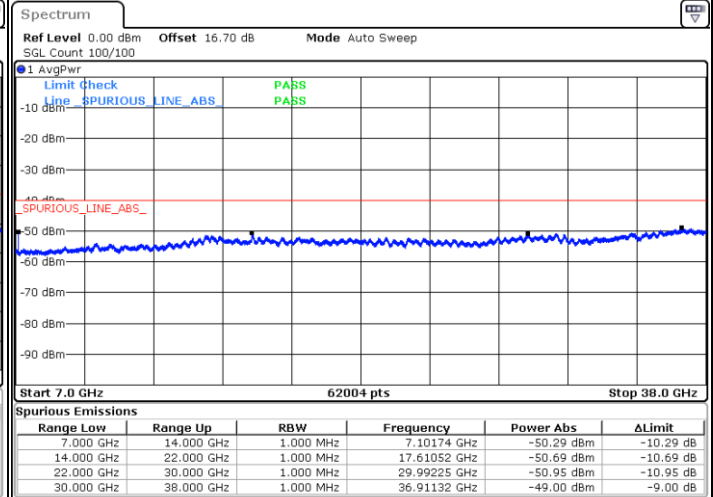
LTE Band 48 / 15MHz

Lowest Channel / QPSK



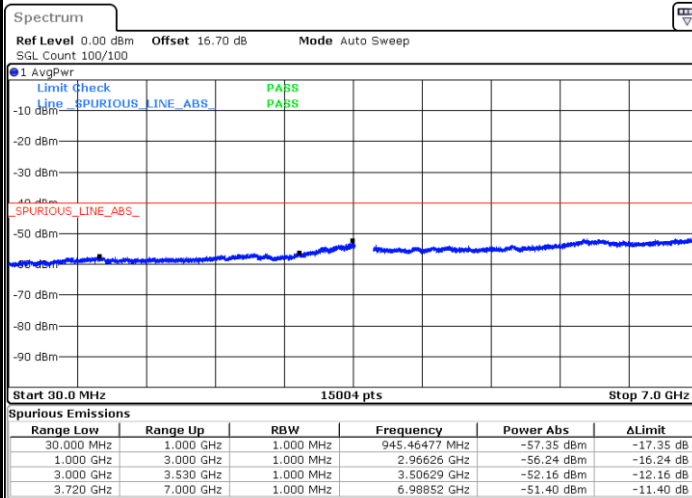
Date: 24.JUN.2021 19:51:46

Lowest Channel / QPSK



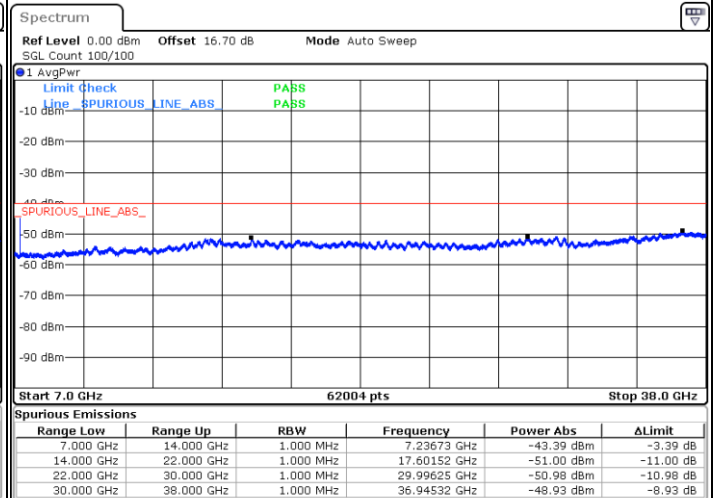
Date: 24.JUN.2021 20:03:54

Middle Channel / QPSK



Date: 24.JUN.2021 19:52:13

Middle Channel / QPSK

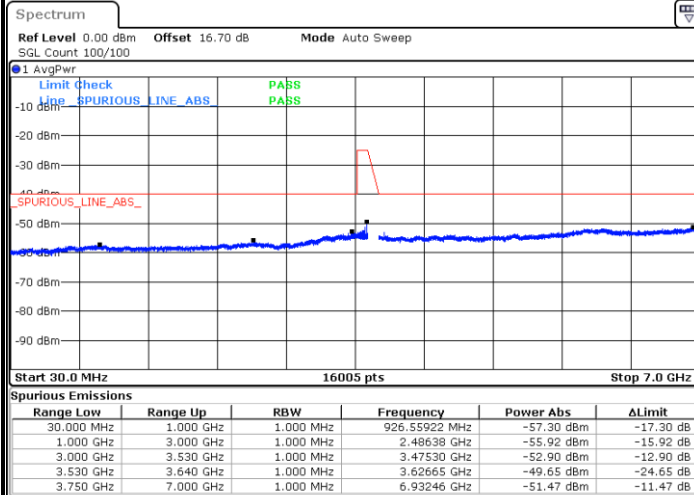


Date: 24.JUN.2021 20:05:05



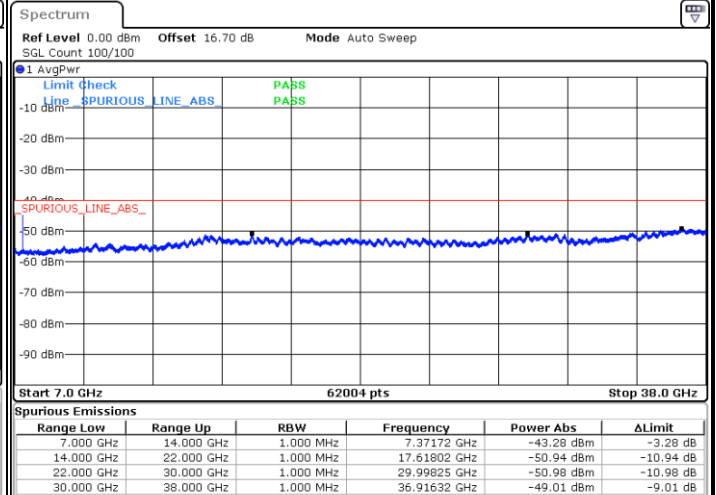
LTE Band 48 / 15MHz

Highest Channel / QPSK



Date: 24.JUN.2021 19:52:39

Highest Channel / QPSK

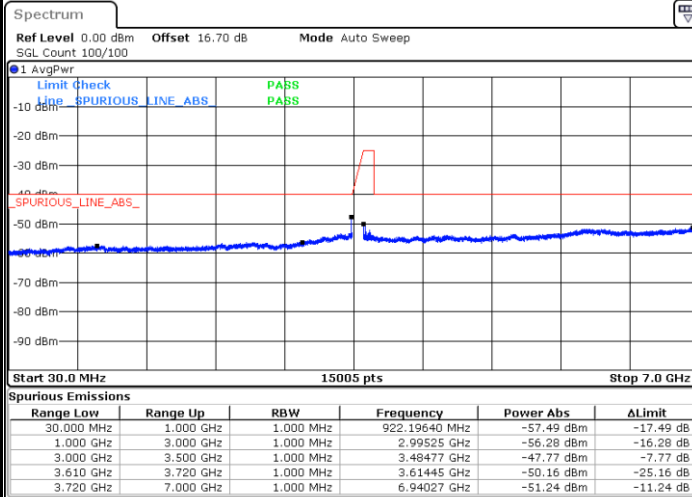


Date: 24.JUN.2021 20:06:16



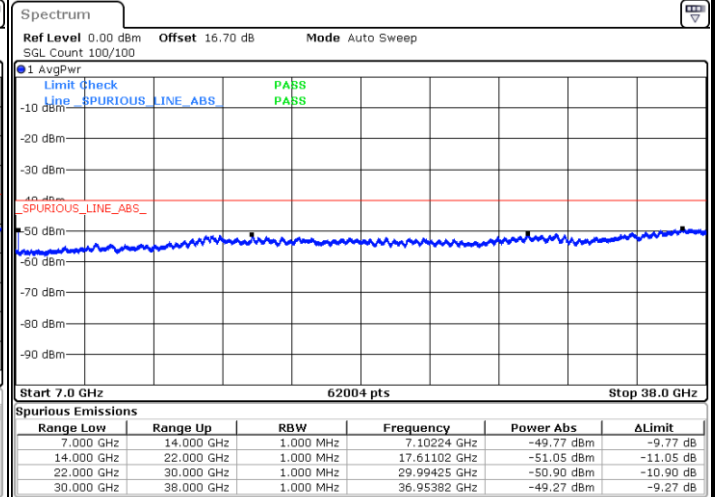
LTE Band 48 / 20MHz

Lowest Channel / QPSK



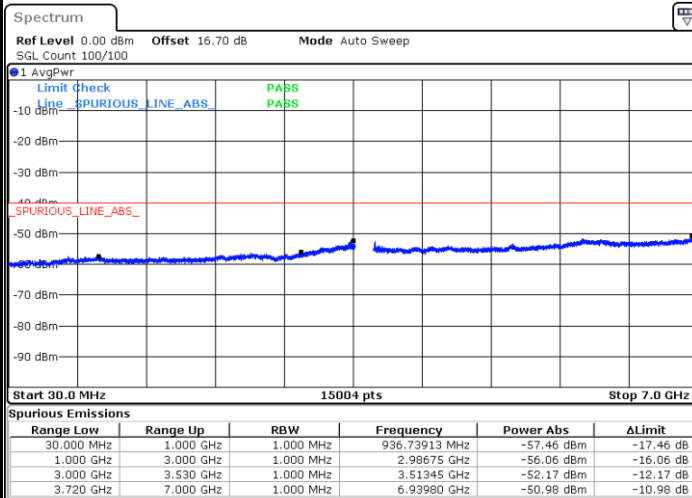
Date: 24.JUN.2021 19:53:09

Lowest Channel / QPSK



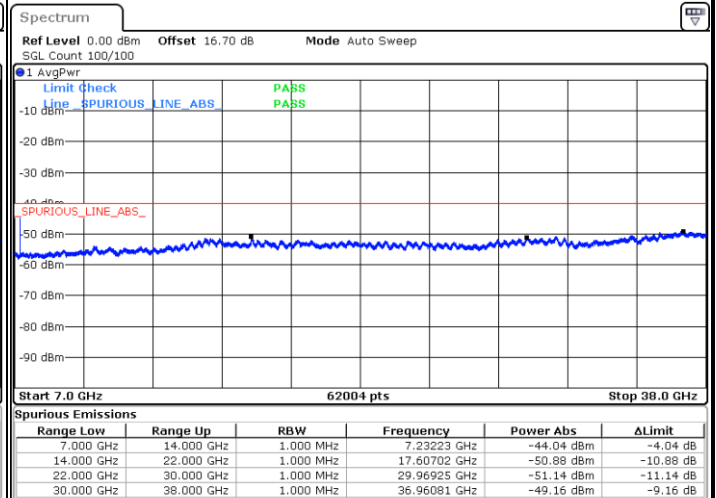
Date: 24.JUN.2021 20:07:29

Middle Channel / QPSK



Date: 24.JUN.2021 19:53:36

Middle Channel / QPSK

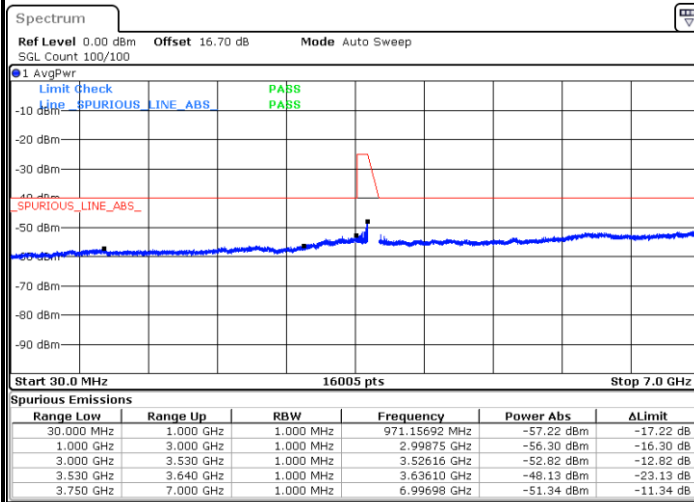


Date: 24.JUN.2021 20:08:39



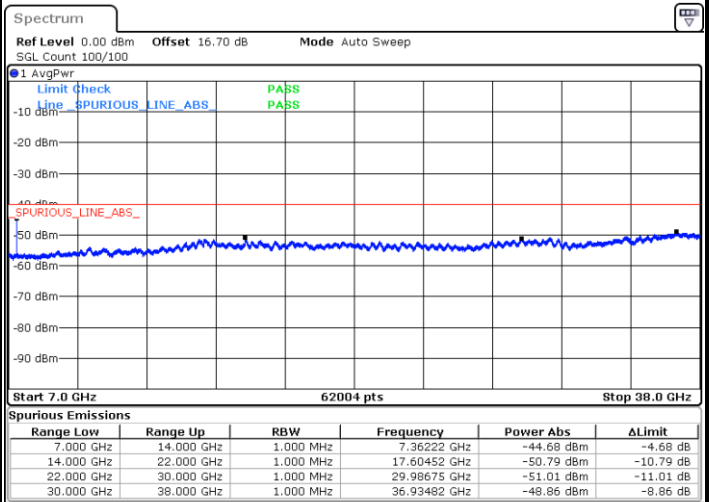
LTE Band 48 / 20MHz

Highest Channel / QPSK



Date: 24.JUN.2021 19:54:02

Highest Channel / QPSK



Date: 24.JUN.2021 20:09:50

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	0.0042	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0038	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0030	
-20	Normal Voltage	0.0033	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage =3.86 V. ; Battery End Point (ACLRP) =3.6 V. ; Maximum Voltage =4.45 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	7102	-58.75	-40	-18.75	-54.79	-68.71	1.78	11.74	H
	10653	-58.40	-40	-18.40	-55.99	-66.83	2.47	10.90	H
	14204	-54.74	-40	-14.74	-57.59	-63.58	2.87	11.71	H
	21306	-43.80	-40	-3.80	-65.62	-60.52	1.98	18.70	H
	24857	-52.12	-40	-12.12	-76.88	-68.13	2.07	18.07	H
	28408	-50.37	-40	-10.37	-75.68	-67.61	2.32	19.56	H
									H
	7102	-58.90	-40	-18.90	-54.55	-68.86	1.78	11.74	V
	10653	-58.45	-40	-18.45	-55.79	-66.88	2.47	10.90	V
	14204	-55.09	-40	-15.09	-57.67	-63.93	2.87	11.71	V
	21306	-52.30	-40	-12.30	-73.98	-69.02	1.98	18.70	V
	24857	-50.98	-40	-10.98	-76.95	-66.99	2.07	18.07	V
	28408	-48.86	-40	-8.86	-75.99	-66.10	2.32	19.56	V
									V
Middle	7232	-58.75	-40	-18.75	-54.92	-68.43	1.85	11.53	H
	10848	-57.66	-40	-17.66	-55.54	-65.99	2.57	10.90	H
	14464	-54.80	-40	-14.80	-57.4	-63.03	2.85	11.09	H
	18080	-48.30	-40	-8.30	-66.24	-64.53	1.76	17.98	H
	21696	-43.96	-40	-3.96	-65.36	-60.75	1.99	18.78	H
	25312	-51.01	-40	-11.01	-76.21	-67.61	2.14	18.74	H
									H
	7232	-59.24	-40	-19.24	-55.14	-68.92	1.85	11.53	V
	10848	-57.48	-40	-17.48	-55.15	-65.81	2.57	10.90	V
	14464	-56.17	-40	-16.17	-57.94	-64.40	2.85	11.09	V
	18080	-52.38	-40	-12.38	-69.39	-68.61	1.76	17.98	V
	21696	-47.10	-40	-7.10	-68.49	-63.89	1.99	18.78	V
	25312	-49.75	-40	-9.75	-76.21	-66.35	2.14	18.74	V
									V



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)
Highest	7362	-56.39	-40	-16.39	-52.37	-65.80	1.92	11.32	H
	11043	-57.72	-40	-17.72	-55.96	-66.04	2.63	10.95	H
	14724	-54.37	-40	-14.37	-58.02	-63.17	2.91	11.72	H
	18405	-54.67	-40	-14.67	-72.95	-70.72	1.87	17.92	H
	22086	-44.66	-40	-4.66	-66.57	-61.45	2.08	18.87	H
	25767	-51.15	-40	-11.15	-77.03	-68.17	2.03	19.05	H
									H
	7362	-58.03	-40	-18.03	-53.83	-67.44	1.92	11.32	V
	11043	-57.44	-40	-17.44	-55.52	-65.76	2.63	10.95	V
	14724	-56.02	-40	-16.02	-58	-64.82	2.91	11.72	V
	18405	-56.24	-40	-16.24	-73.64	-72.29	1.87	17.92	V
	22086	-47.67	-40	-7.67	-69.58	-64.46	2.08	18.87	V
	25767	-49.65	-40	-9.65	-76.72	-66.67	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	7102	-59.70	-40	-19.70	-55.74	-69.66	1.78	11.74	H
	10653	-44.35	-40	-4.35	-41.94	-52.78	2.47	10.90	H
	14205	-55.05	-40	-15.05	-57.9	-63.89	2.87	11.71	H
	21307	-54.77	-40	-14.77	-76.59	-71.49	1.98	18.70	H
	24858	-52.03	-40	-12.03	-76.79	-68.04	2.07	18.07	H
	28409	-51.15	-40	-11.15	-76.46	-68.40	2.32	19.56	H
									H
	7102	-59.45	-40	-19.45	-55.1	-69.41	1.78	11.74	V
	10653	-44.41	-40	-4.41	-41.75	-52.84	2.47	10.90	V
	14205	-55.12	-40	-15.12	-57.69	-63.96	2.87	11.71	V
	21307	-47.47	-40	-7.47	-69.15	-64.19	1.98	18.70	V
	24858	-50.97	-40	-10.97	-76.94	-66.98	2.07	18.07	V
	28409	-49.20	-40	-9.20	-76.33	-66.45	2.32	19.56	V
									V
Middle	7232	-58.79	-40	-18.79	-54.96	-68.47	1.85	11.53	H
	10848	-50.14	-40	-10.14	-48.02	-58.47	2.57	10.90	H
	14464	-55.59	-40	-15.59	-58.19	-63.82	2.85	11.09	H
	18080	-54.02	-40	-14.02	-71.96	-70.25	1.76	17.98	H
	21697	-54.10	-40	-14.10	-75.5	-70.89	1.99	18.78	H
	25313	-51.78	-40	-11.78	-76.98	-68.38	2.14	18.74	H
									H
	7232	-57.37	-40	-17.37	-53.27	-67.05	1.85	11.53	V
	10848	-50.52	-40	-10.52	-48.19	-58.85	2.57	10.90	V
	14464	-56.42	-40	-16.42	-58.19	-64.65	2.85	11.09	V
	18080	-54.57	-40	-14.57	-71.58	-70.80	1.76	17.98	V
	21697	-50.60	-40	-10.60	-63.97	-66.70	2.28	18.38	V
	25313	-49.82	-40	-9.82	-76.28	-66.42	2.14	18.74	V
									V



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)
Highest	7360	-58.88	-40	-18.88	-54.86	-68.29	1.91	11.32	H
	11043	-57.68	-40	-17.68	-55.92	-66.00	2.63	10.95	H
	14724	-54.24	-40	-14.24	-57.89	-63.04	2.91	11.72	H
	18405	-55.39	-40	-15.39	-73.67	-71.44	1.87	17.92	H
	22087	-49.79	-40	-9.79	-71.7	-66.58	2.08	18.87	H
	25768	-51.37	-40	-11.37	-77.25	-68.39	2.03	19.05	H
									H
	7360	-58.65	-40	-18.65	-54.44	-68.06	1.91	11.32	V
	11043	-58.48	-40	-18.48	-56.56	-66.80	2.63	10.95	V
	14724	-56.06	-40	-16.06	-58.04	-64.86	2.91	11.72	V
	18405	-56.04	-40	-16.04	-73.44	-72.09	1.87	17.92	V
	22087	-43.51	-40	-3.51	-65.42	-60.30	2.08	18.87	V
	25768	-49.80	-40	-9.80	-76.87	-66.82	2.03	19.05	V
									V

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

—————THE END—————