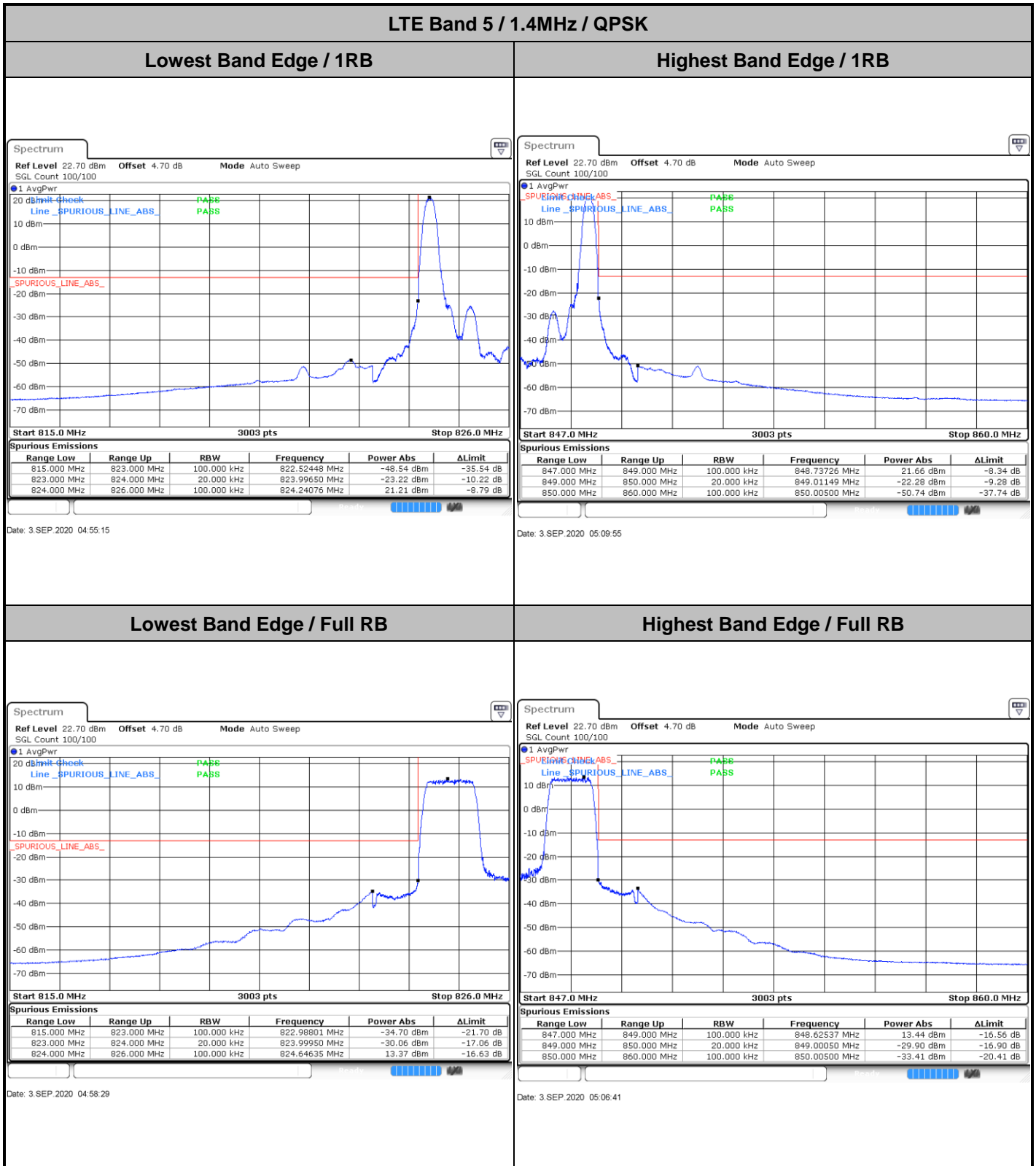




Conducted Band Edge





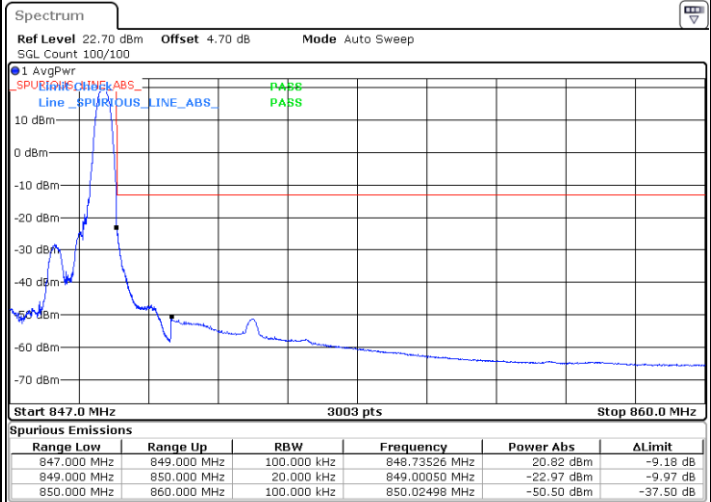
LTE Band 5 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



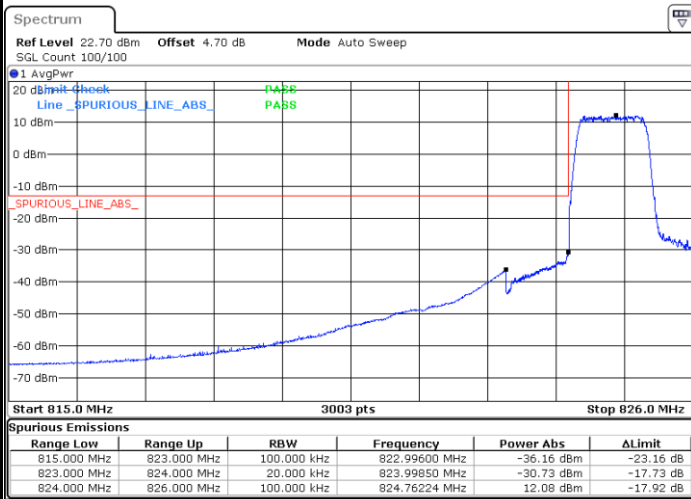
Date: 3 SEP.2020 04:56:52

Highest Band Edge / 1 RB



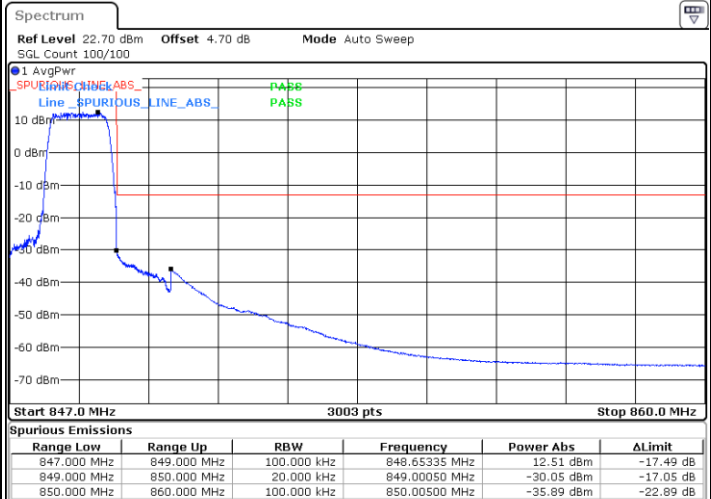
Date: 3 SEP.2020 05:11:33

Lowest Band Edge / Full RB



Date: 3 SEP.2020 05:00:07

Highest Band Edge / Full RB



Date: 3 SEP.2020 05:08:18



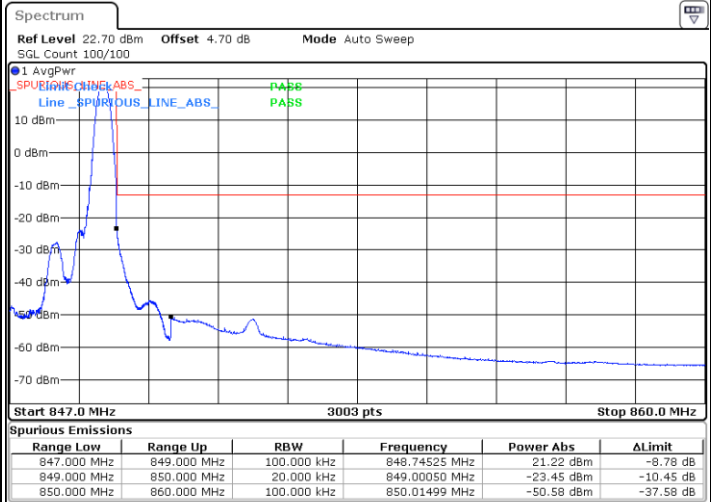
LTE Band 5 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



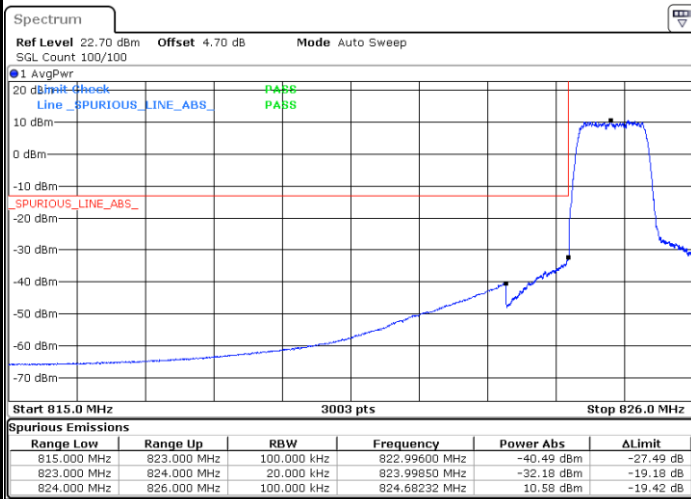
Date: 3 SEP.2020 06:32:19

Highest Band Edge / 1 RB



Date: 3 SEP.2020 06:38:02

Lowest Band Edge / Full RB



Date: 3 SEP.2020 07:24:03

Highest Band Edge / Full RB

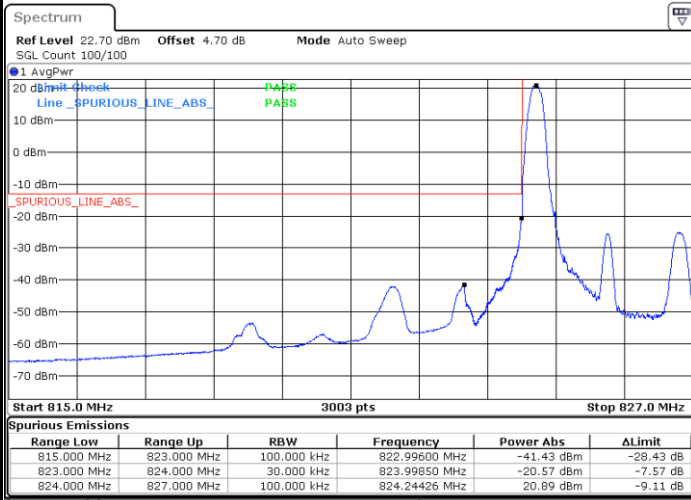


Date: 3 SEP.2020 06:36:25



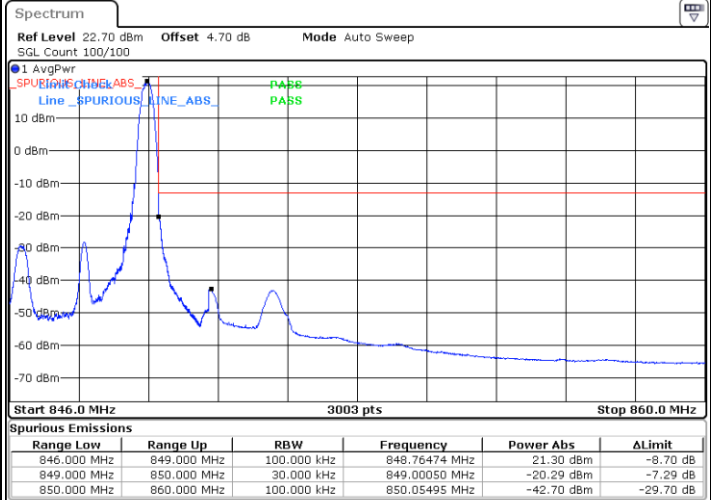
LTE Band 5 / 3MHz / QPSK

Lowest Band Edge / 1RB



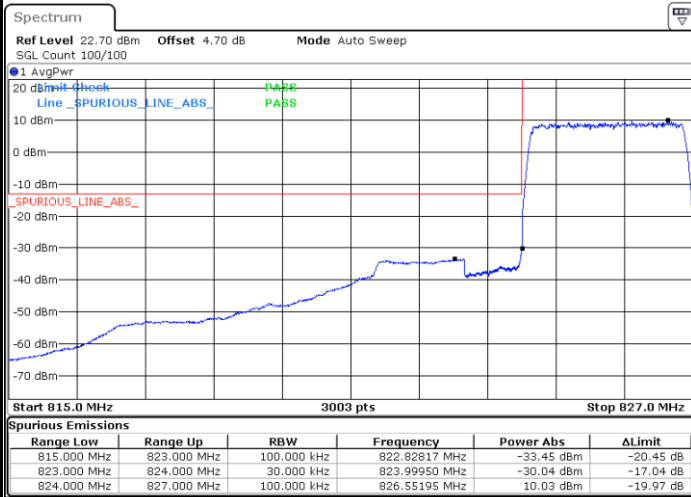
Date: 3 SEP.2020 05:17:34

Highest Band Edge / 1 RB



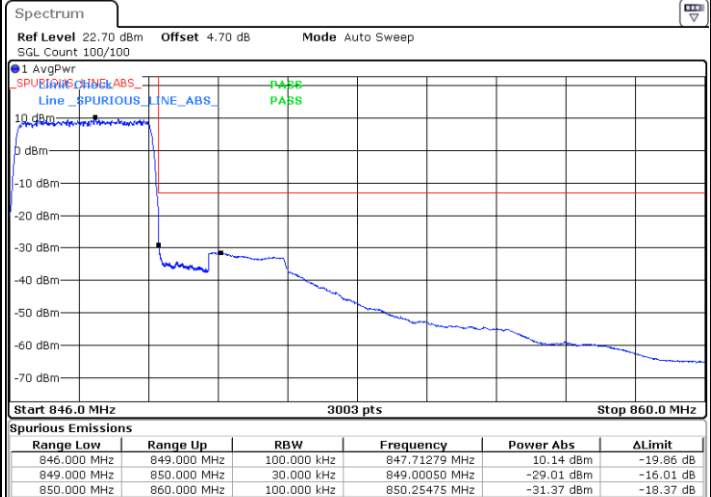
Date: 3 SEP.2020 05:29:00

Lowest Band Edge / Full RB



Date: 3 SEP.2020 05:20:49

Highest Band Edge / Full RB

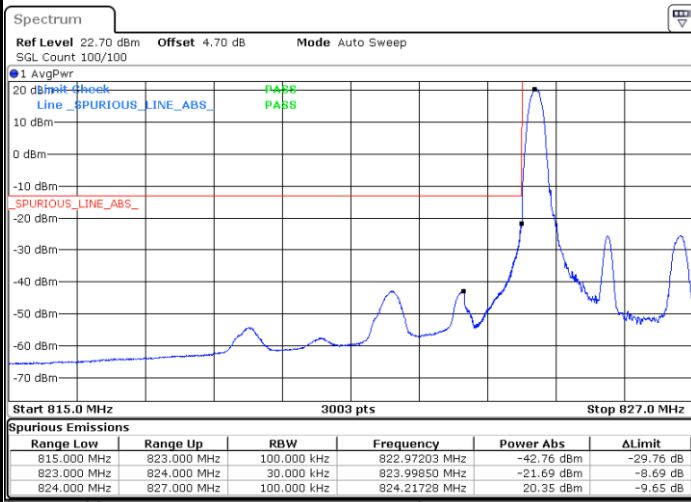


Date: 3 SEP.2020 05:32:15



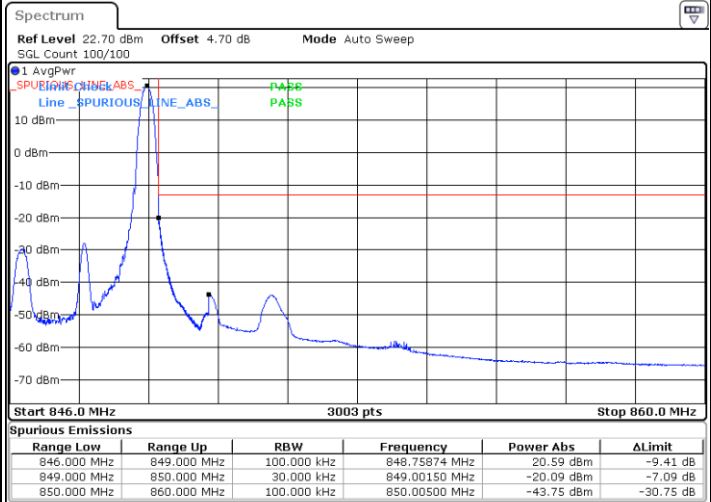
LTE Band 5 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



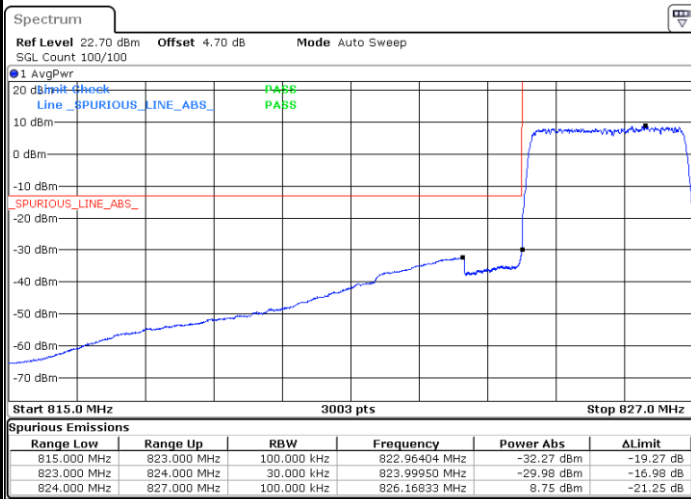
Date: 3 SEP.2020 05:19:11

Highest Band Edge / 1 RB



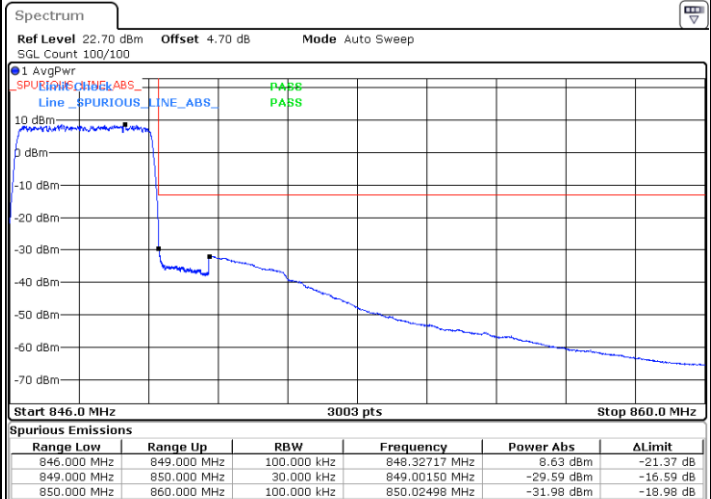
Date: 3 SEP.2020 05:30:37

Lowest Band Edge / Full RB



Date: 3 SEP.2020 05:22:26

Highest Band Edge / Full RB

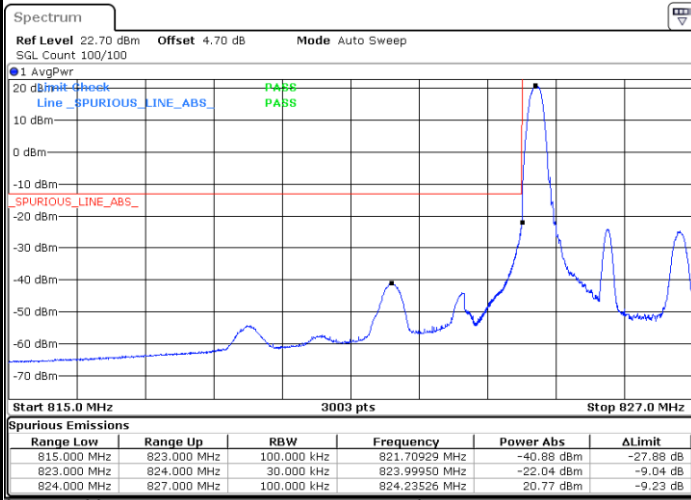


Date: 3 SEP.2020 05:33:52



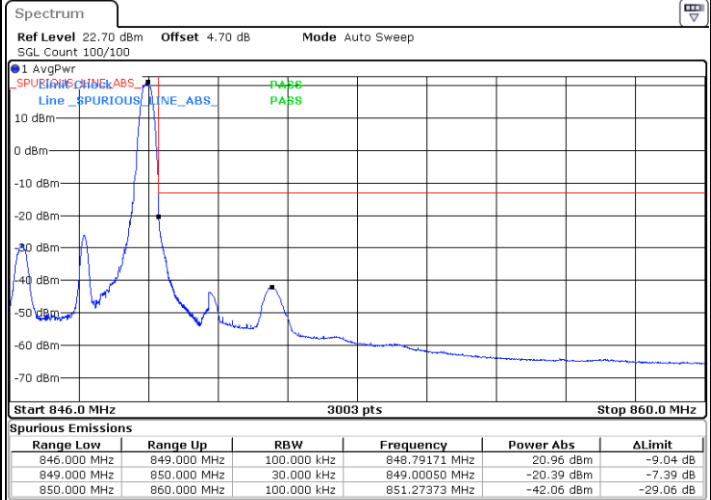
LTE Band 5 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



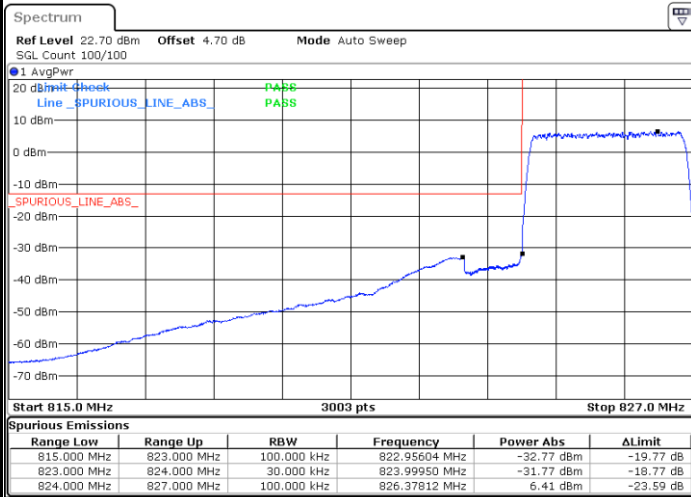
Date: 3 SEP.2020 06:45:37

Highest Band Edge / 1 RB



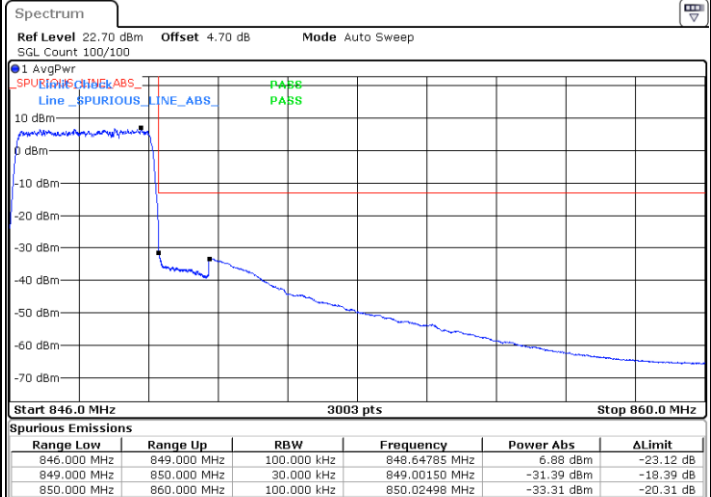
Date: 3 SEP.2020 06:51:20

Lowest Band Edge / Full RB



Date: 3 SEP.2020 06:43:59

Highest Band Edge / Full RB

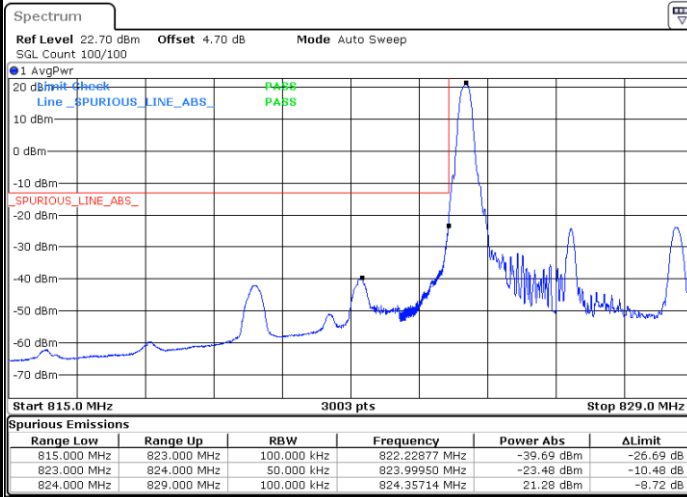


Date: 3 SEP.2020 06:49:42



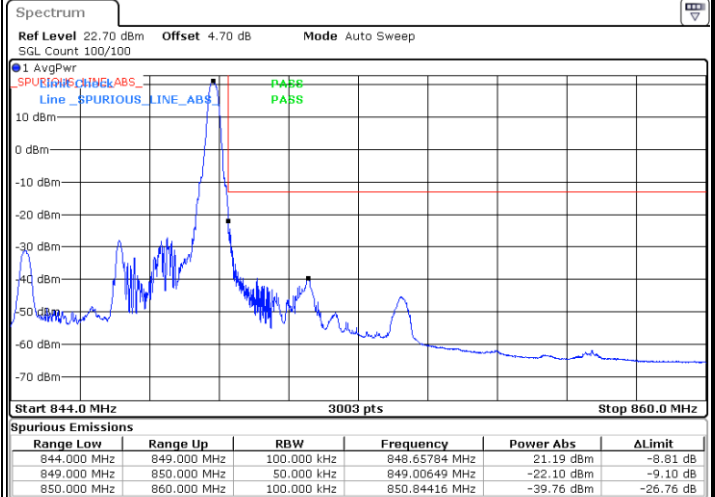
LTE Band 5 / 5MHz / QPSK

Lowest Band Edge / 1 RB



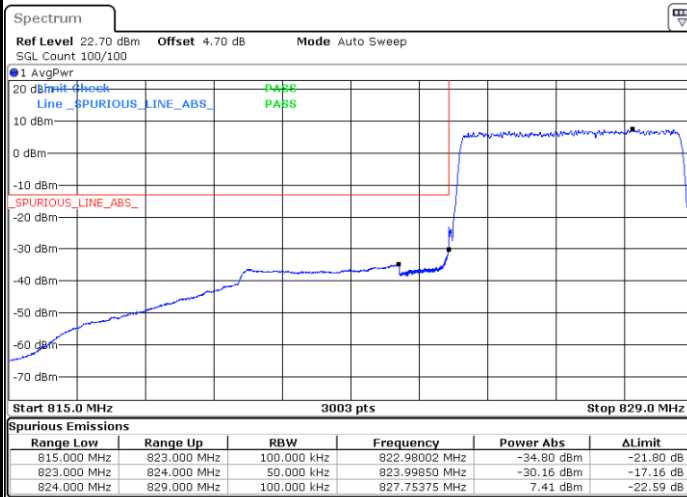
Date: 3 SEP.2020 05:46:40

Highest Band Edge / 1 RB



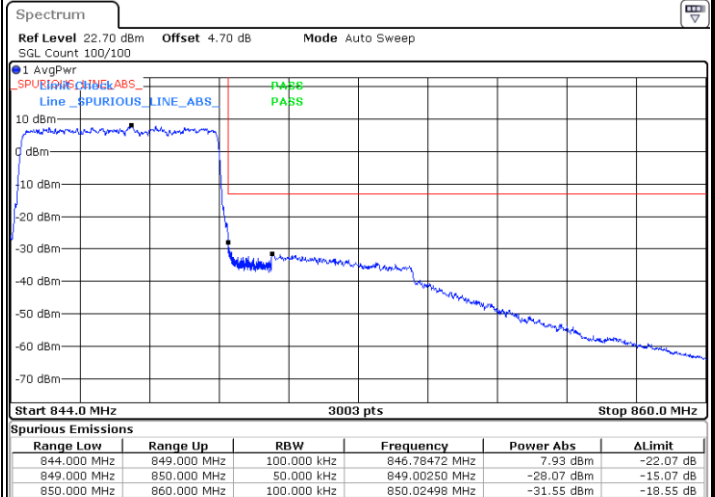
Date: 3 SEP.2020 05:58:06

Lowest Band Edge / Full RB



Date: 3 SEP.2020 05:49:55

Highest Band Edge / Full RB

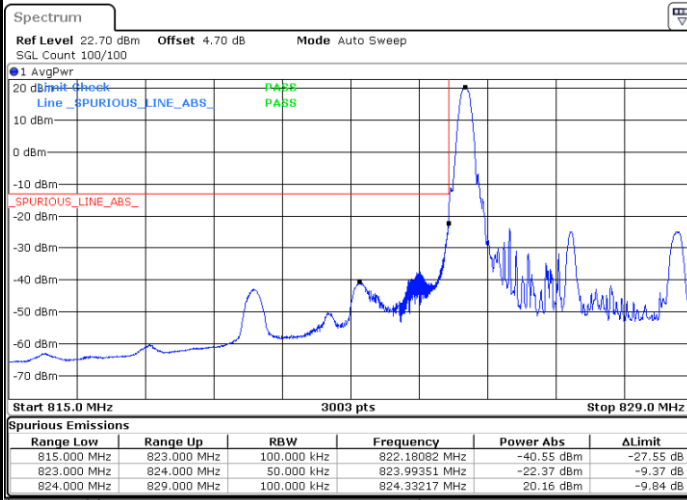


Date: 3 SEP.2020 06:01:21



LTE Band 5 / 5MHz / 16QAM

Lowest Band Edge / 1RB



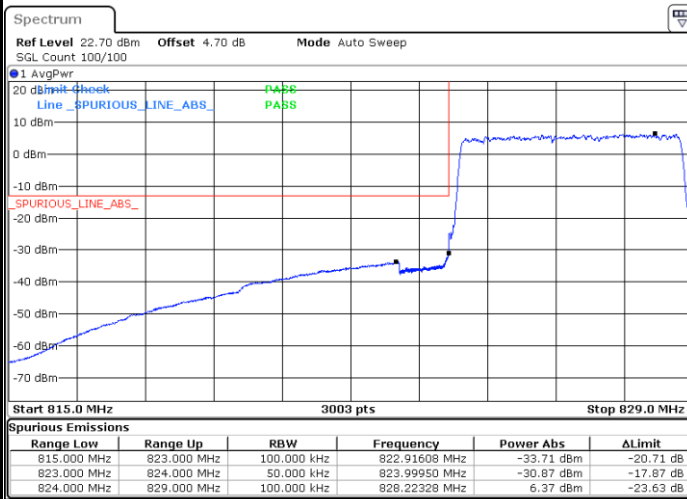
Date: 3 SEP.2020 05:48:18

Highest Band Edge / 1 RB



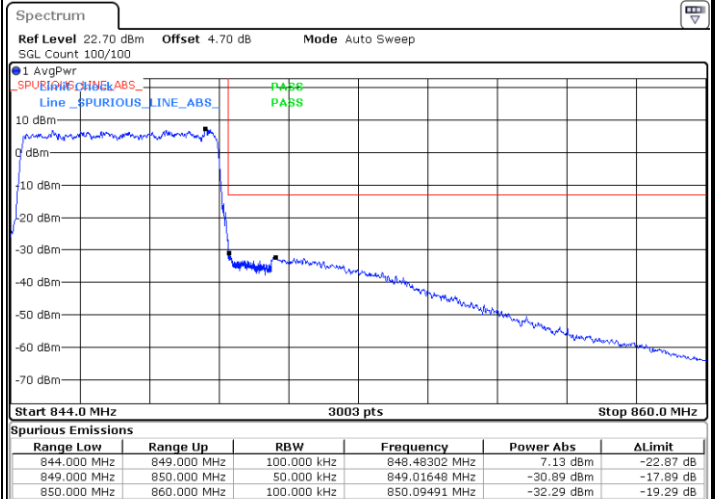
Date: 3 SEP.2020 05:59:44

Lowest Band Edge / Full RB



Date: 3 SEP.2020 05:51:33

Highest Band Edge / Full RB

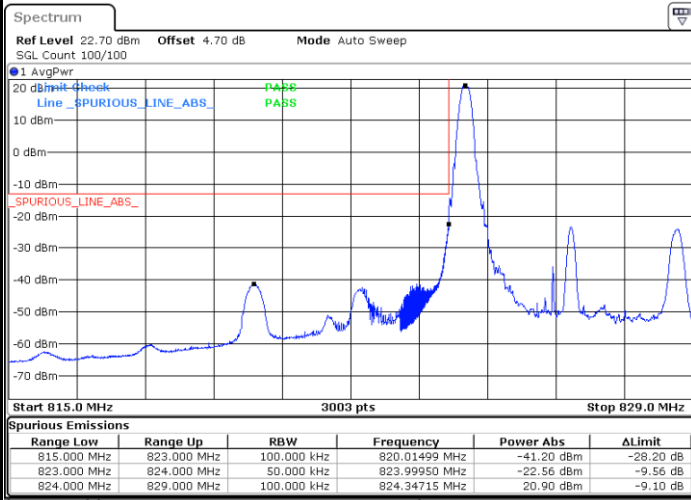


Date: 3 SEP.2020 06:02:58



LTE Band 5 / 5MHz / 64QAM

Lowest Band Edge / 1RB



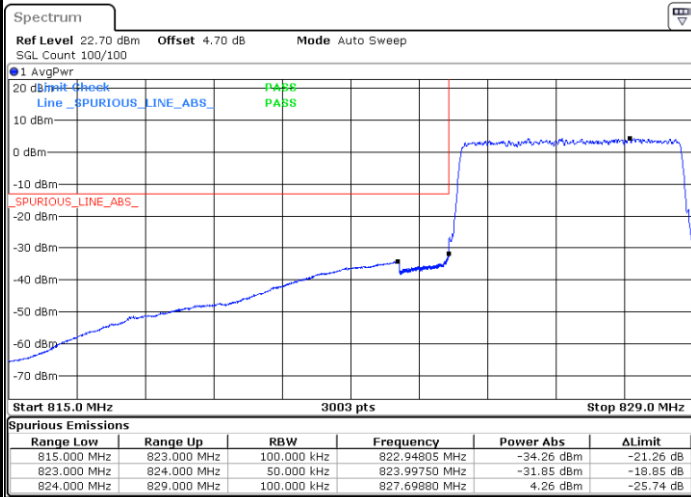
Date: 3 SEP.2020 06:57:42

Highest Band Edge / 1 RB



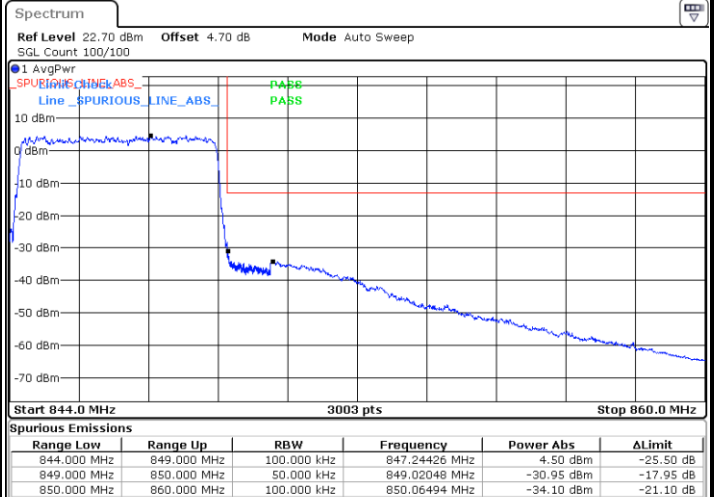
Date: 3 SEP.2020 07:03:25

Lowest Band Edge / Full RB



Date: 3 SEP.2020 06:56:05

Highest Band Edge / Full RB

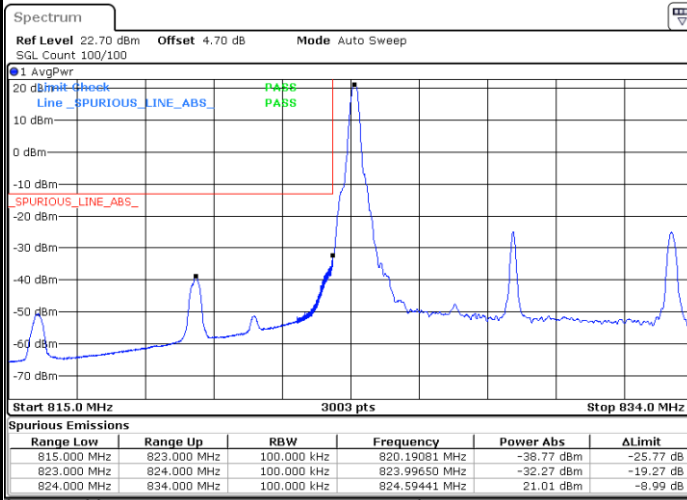


Date: 3 SEP.2020 07:01:48

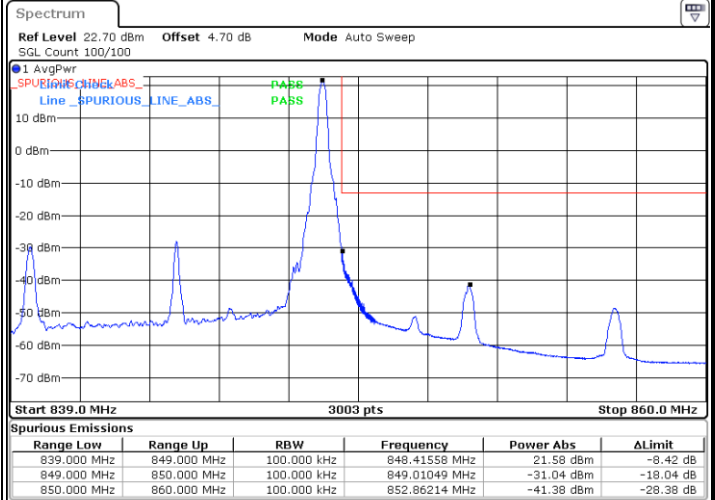


LTE Band 5 / 10MHz / QPSK

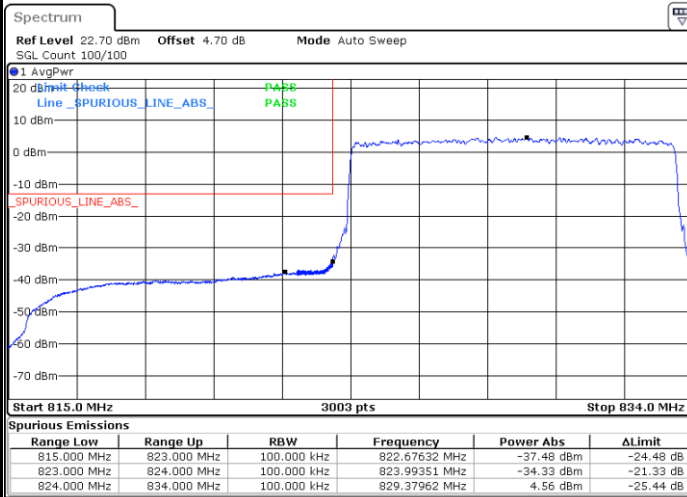
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



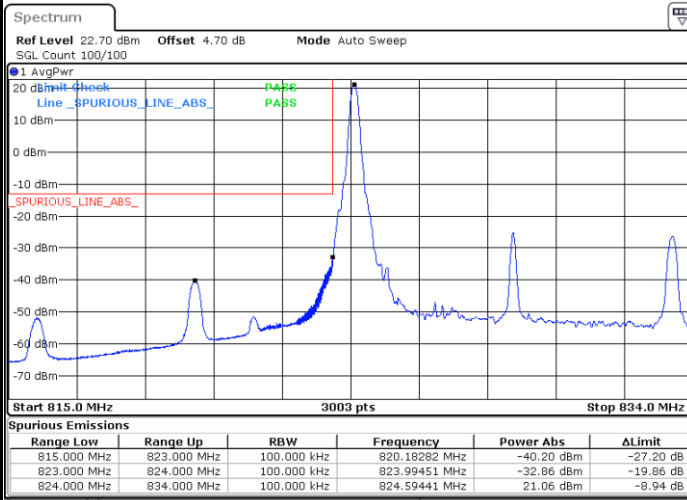
Highest Band Edge / Full RB





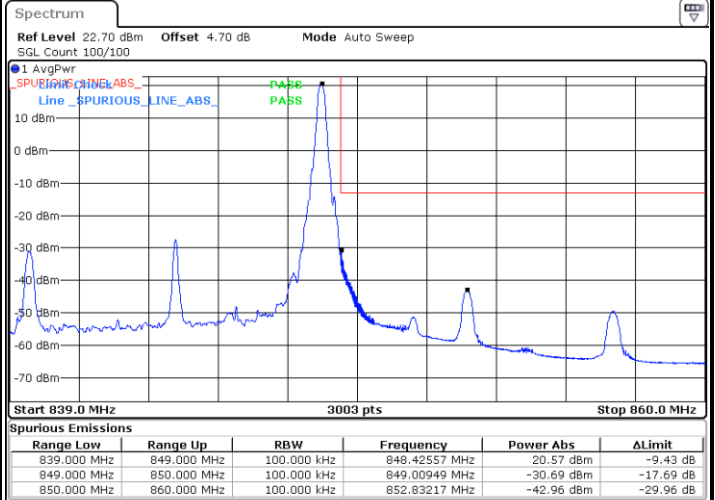
LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



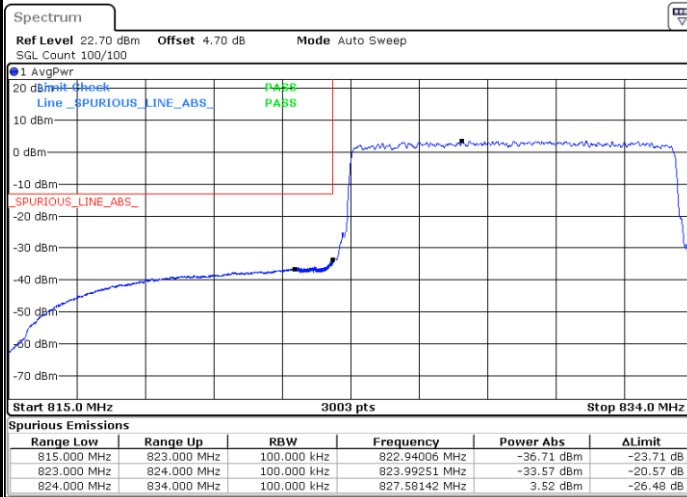
Date: 3 SEP.2020 06:11:55

Highest Band Edge / 1 RB



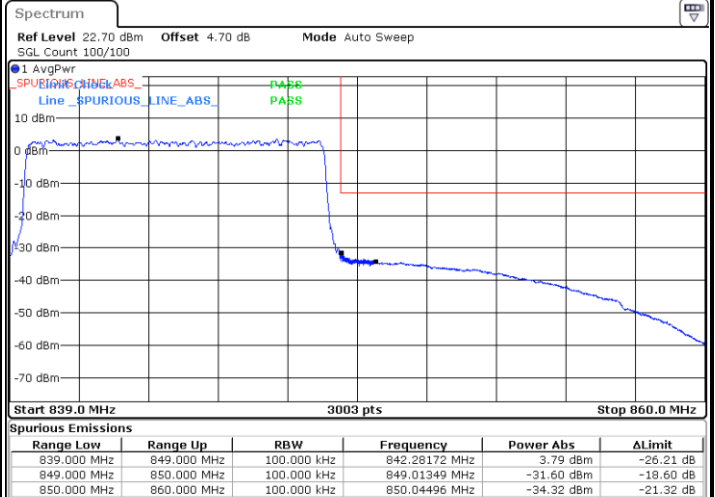
Date: 3 SEP.2020 06:23:21

Lowest Band Edge / Full RB



Date: 3 SEP.2020 06:15:10

Highest Band Edge / Full RB

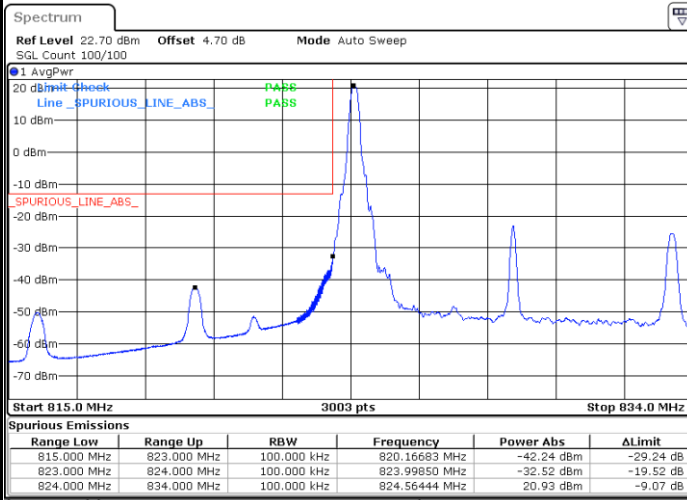


Date: 3 SEP.2020 06:26:36



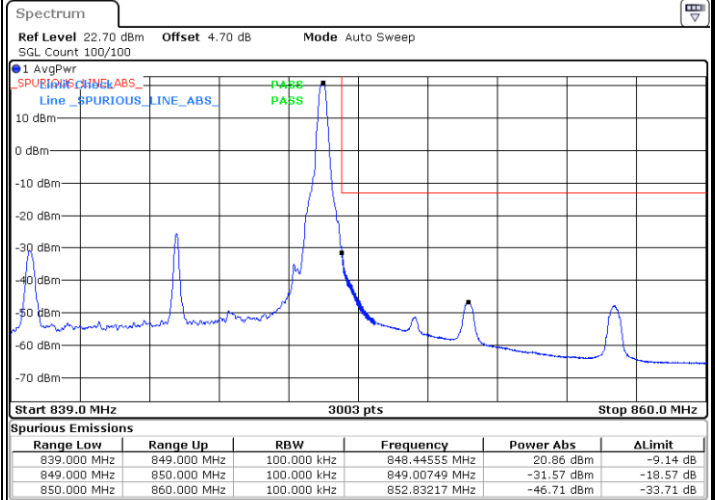
LTE Band 5 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



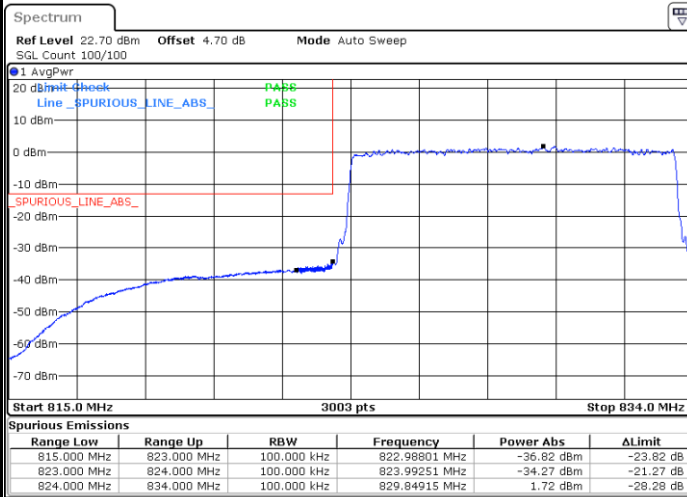
Date: 3 SEP.2020 07:12:13

Highest Band Edge / 1 RB



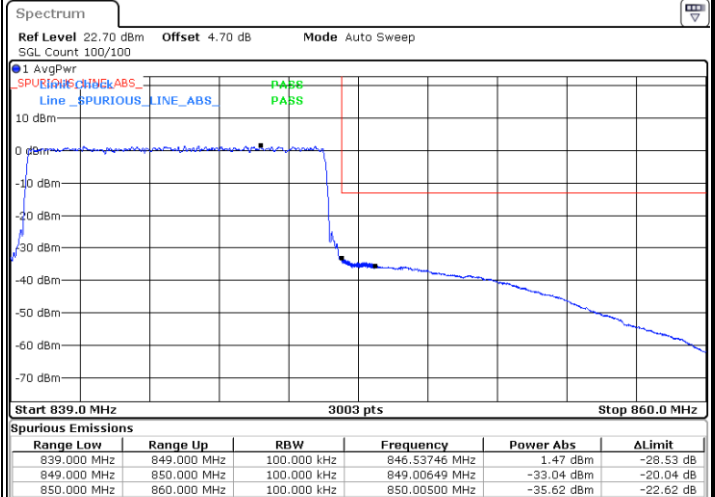
Date: 3 SEP.2020 07:17:55

Lowest Band Edge / Full RB



Date: 3 SEP.2020 07:10:35

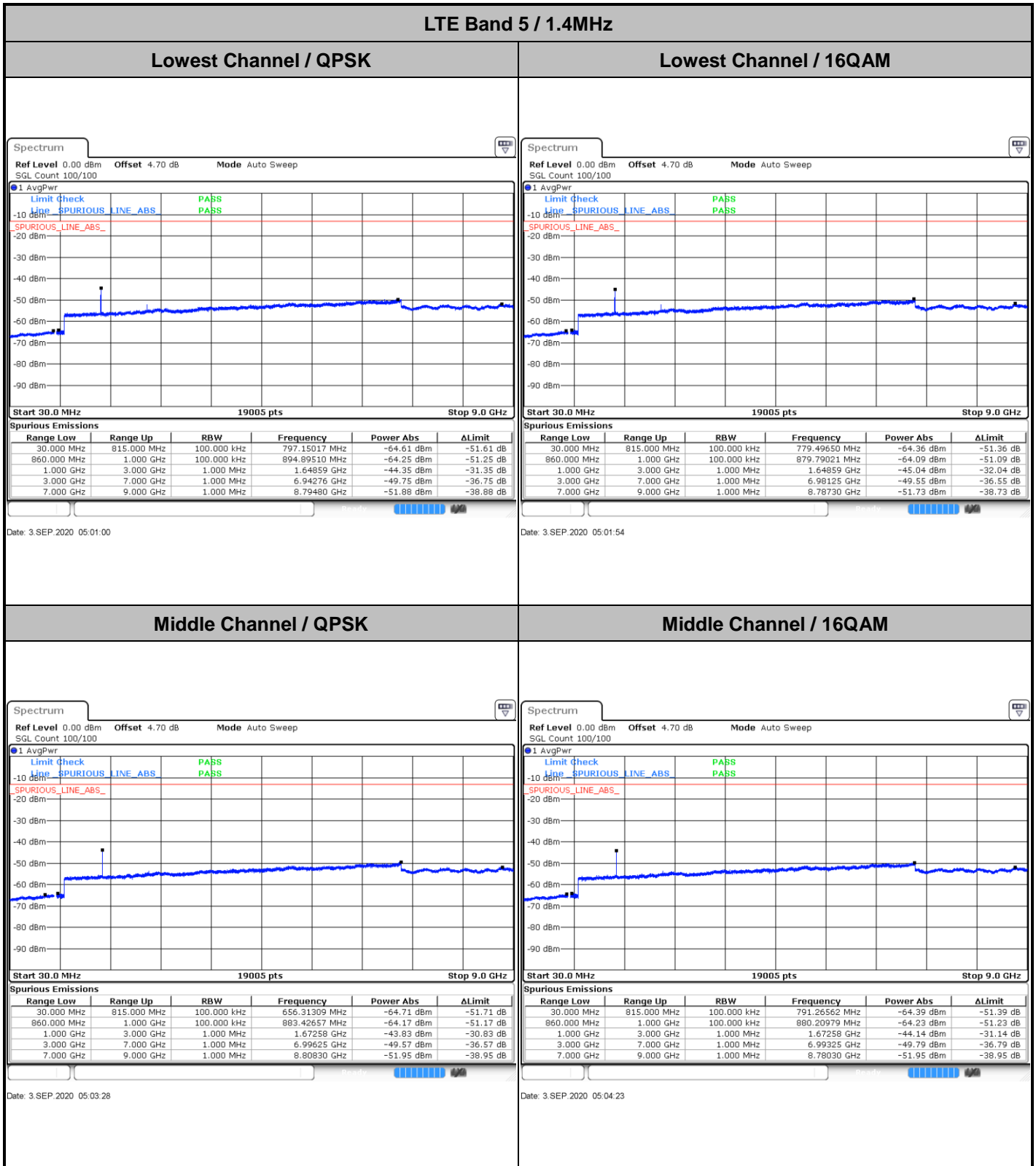
Highest Band Edge / Full RB



Date: 3 SEP.2020 07:16:18



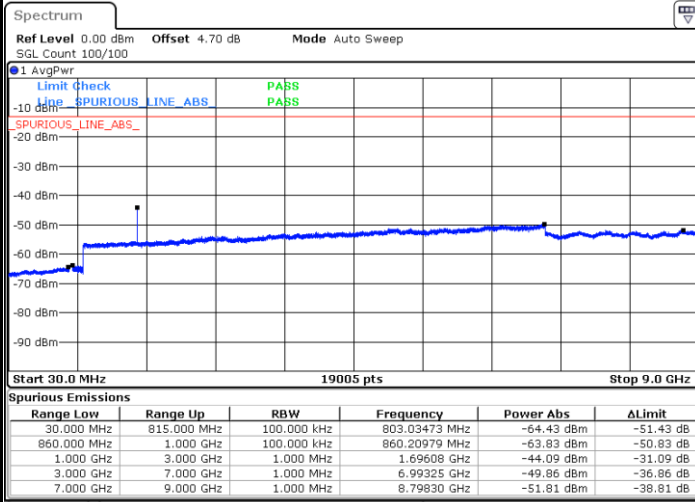
Conducted Spurious Emission





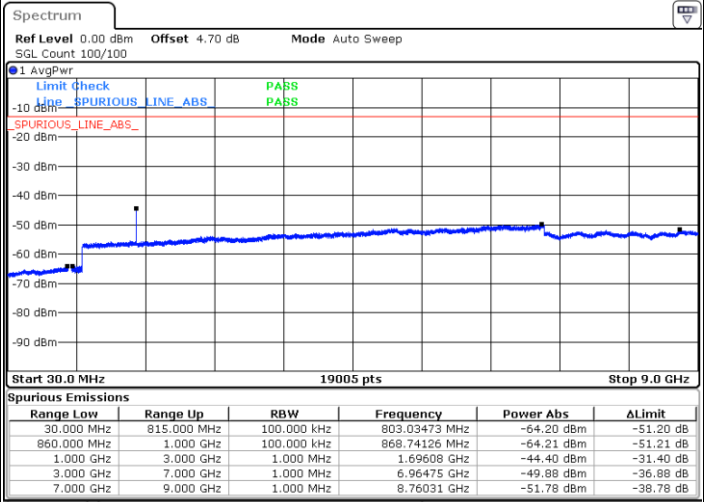
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 3 SEP.2020 05:12:26

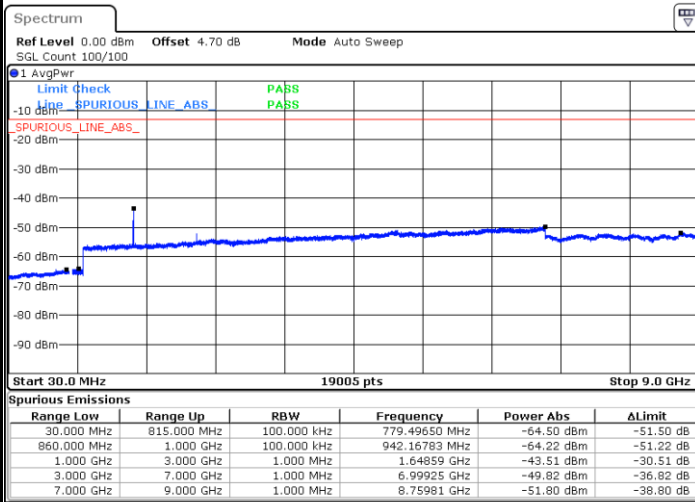
Highest Channel / 16QAM



Date: 3 SEP.2020 05:13:20

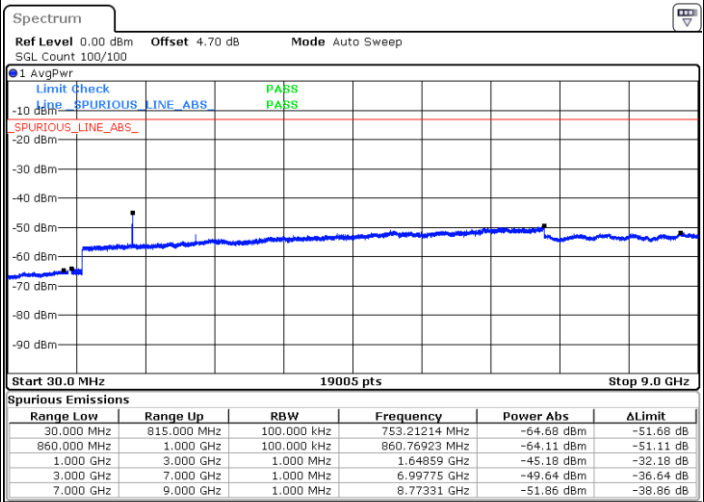
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 3 SEP.2020 05:23:19

Lowest Channel / 16QAM



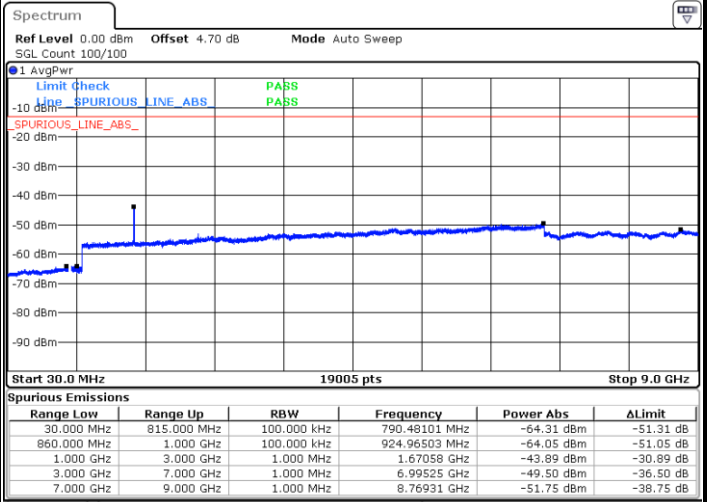
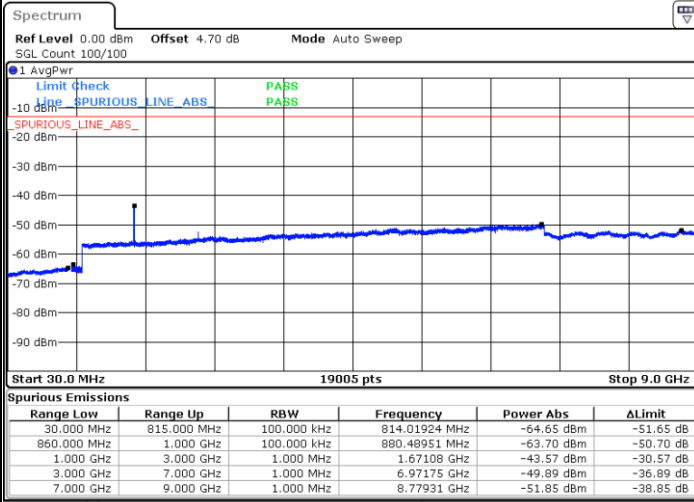
Date: 3 SEP.2020 05:24:14



LTE Band 5 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

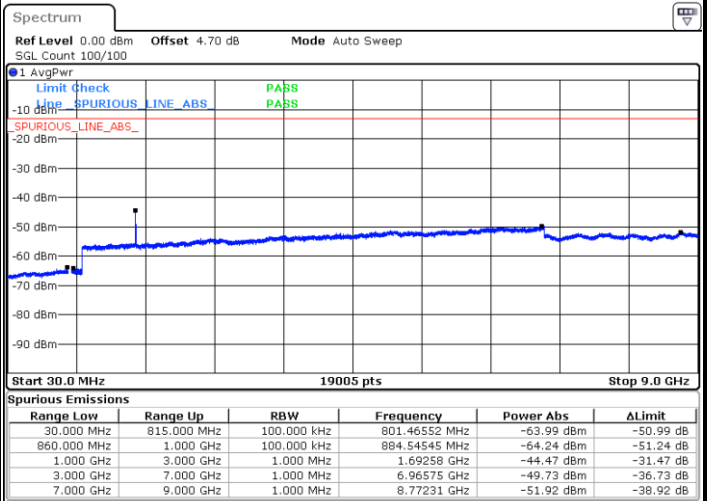
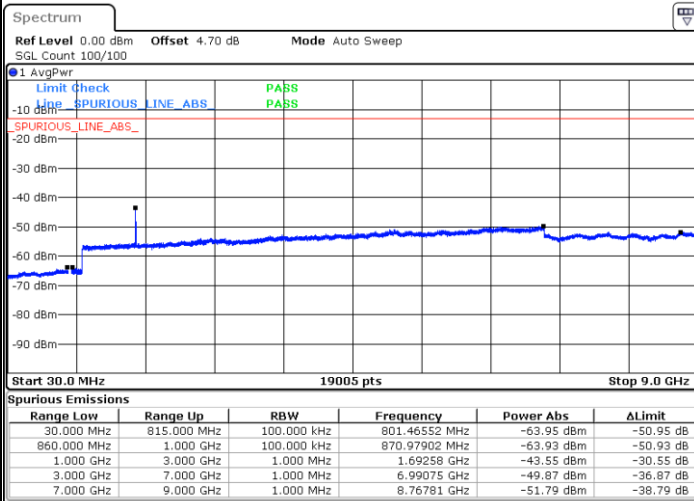


Date: 3 SEP.2020 05:25:48

Date: 3 SEP.2020 05:26:42

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 3 SEP.2020 05:34:45

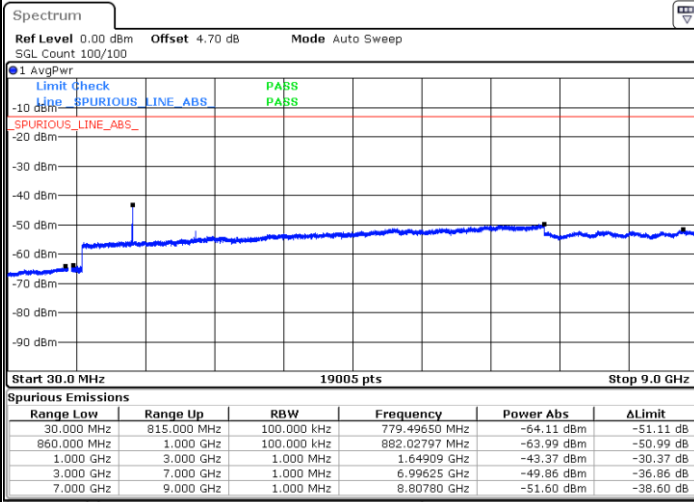
Date: 3 SEP.2020 05:35:39



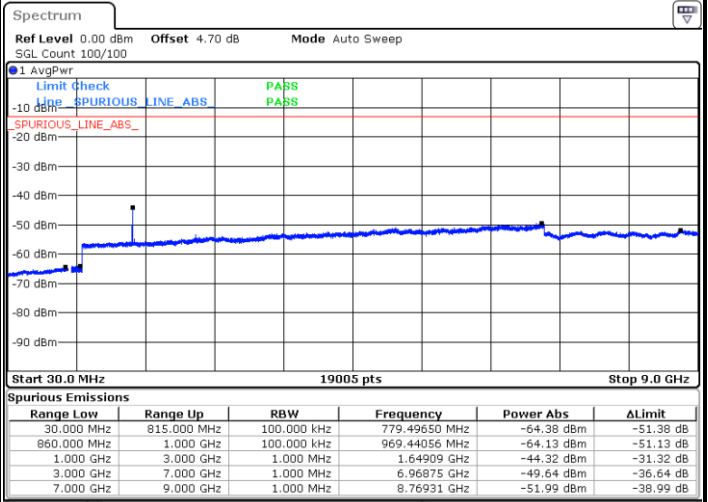
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



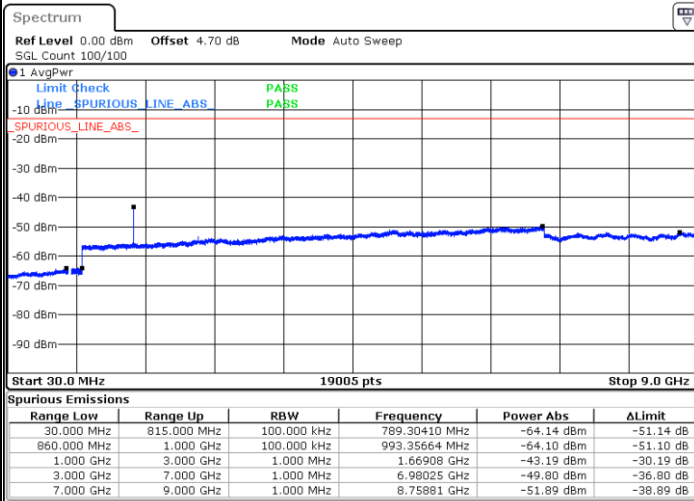
Date: 3 SEP.2020 05:52:26



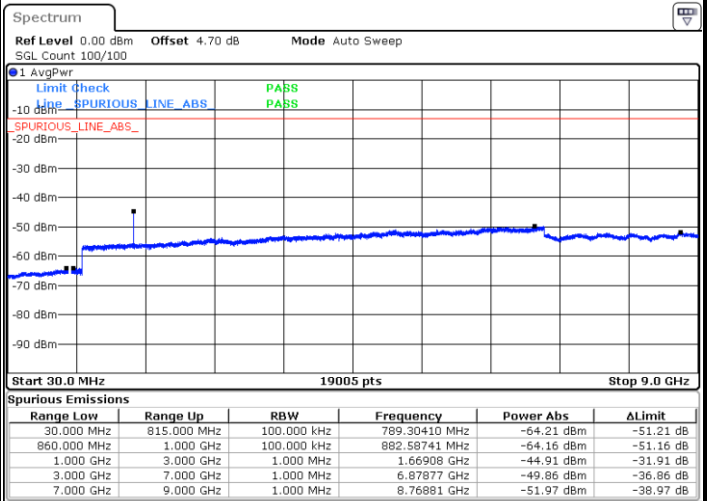
Date: 3 SEP.2020 05:53:20

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 3 SEP.2020 05:54:54

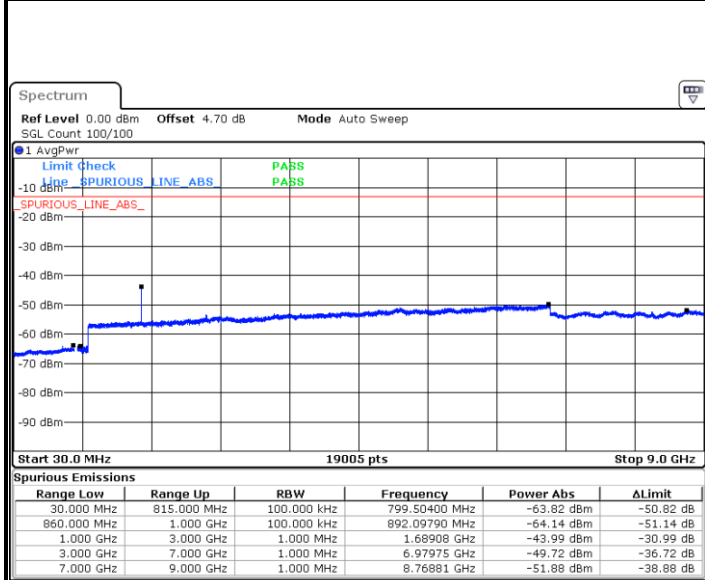


Date: 3 SEP.2020 05:55:48



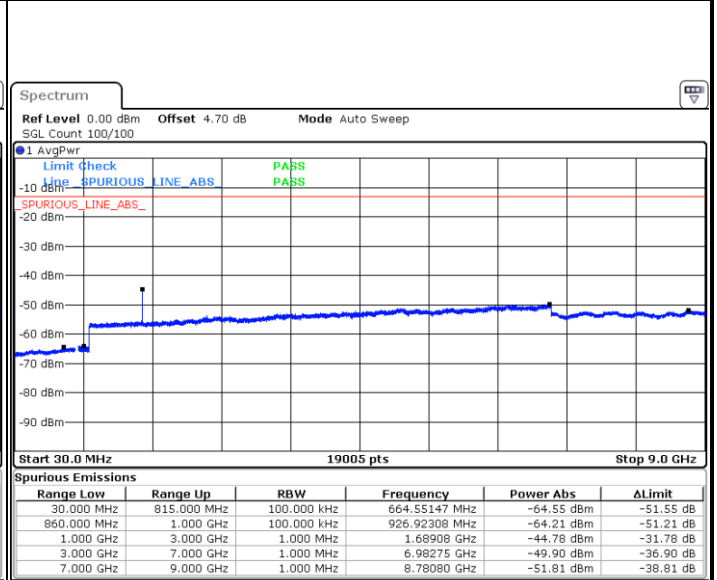
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 3 SEP.2020 06:03:52

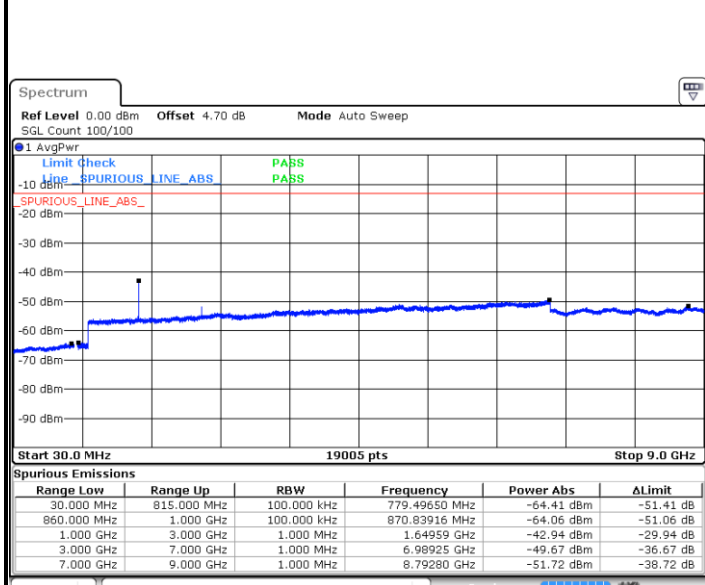
Highest Channel / 16QAM



Date: 3 SEP.2020 06:04:46

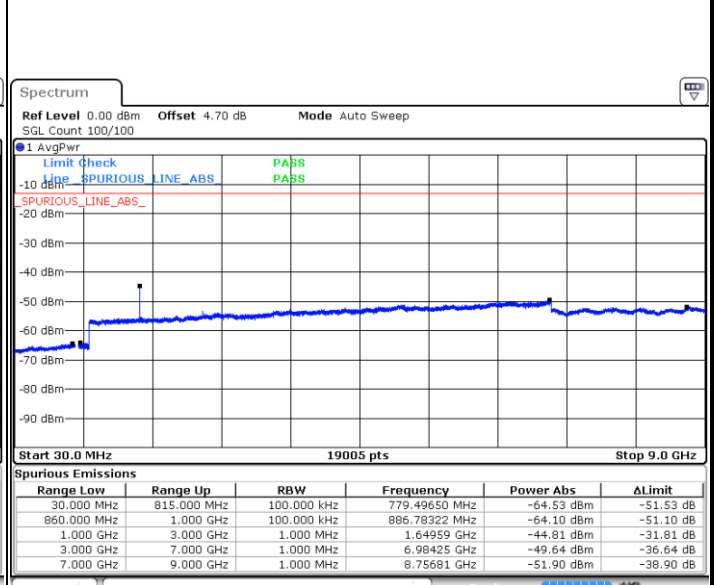
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 3 SEP.2020 06:16:03

Lowest Channel / 16QAM

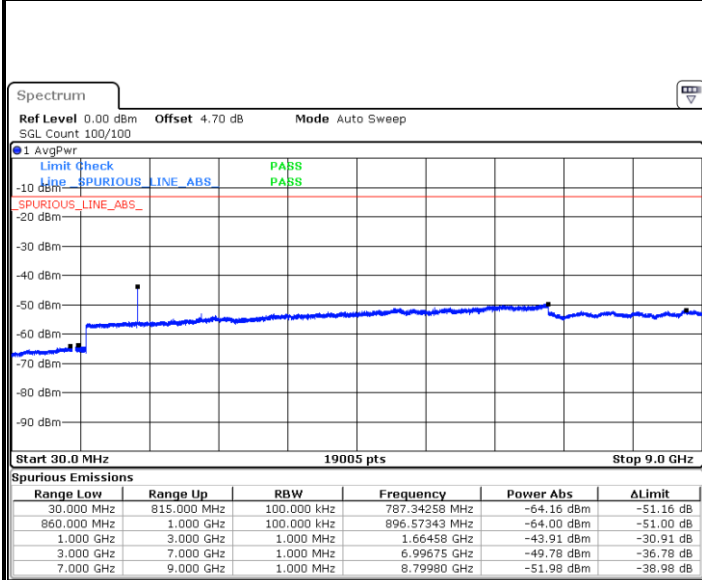


Date: 3 SEP.2020 06:16:58



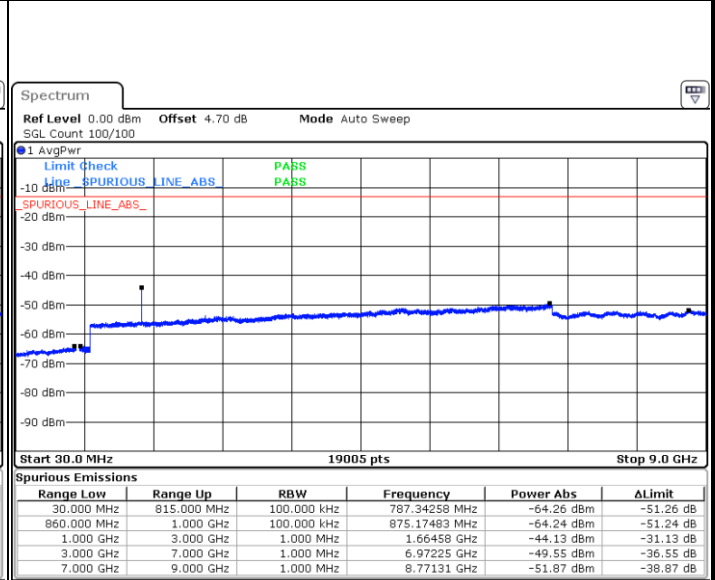
LTE Band 5 / 10MHz

Middle Channel / QPSK



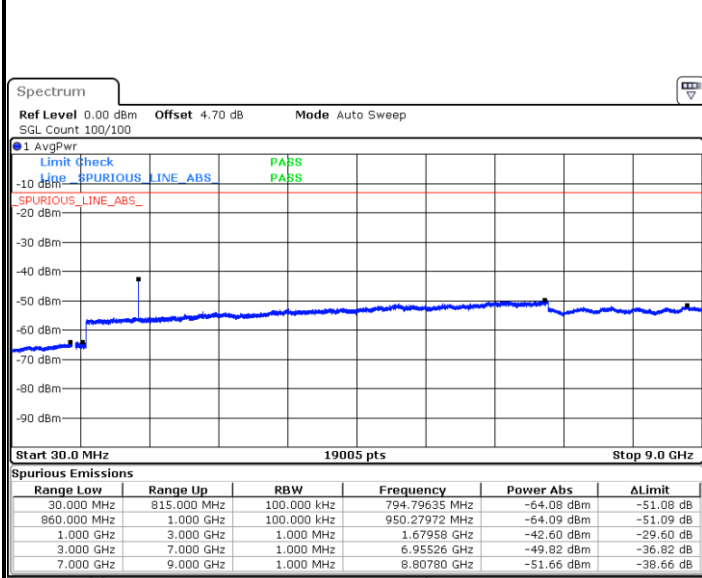
Date: 3.SEP.2020 06:18:32

Middle Channel / 16QAM



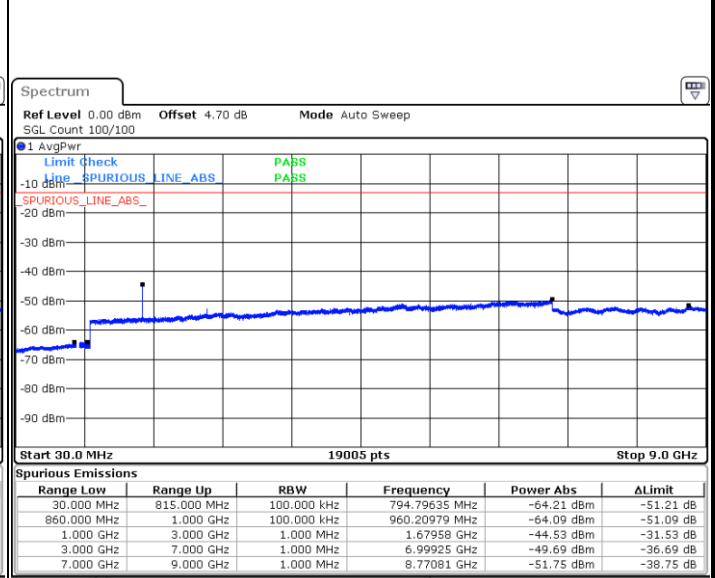
Date: 3.SEP.2020 06:19:26

Highest Channel / QPSK



Date: 3.SEP.2020 06:27:29

Highest Channel / 16QAM



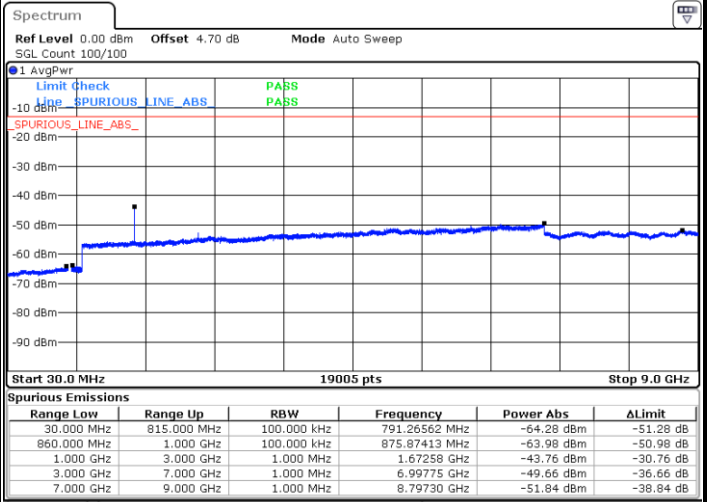
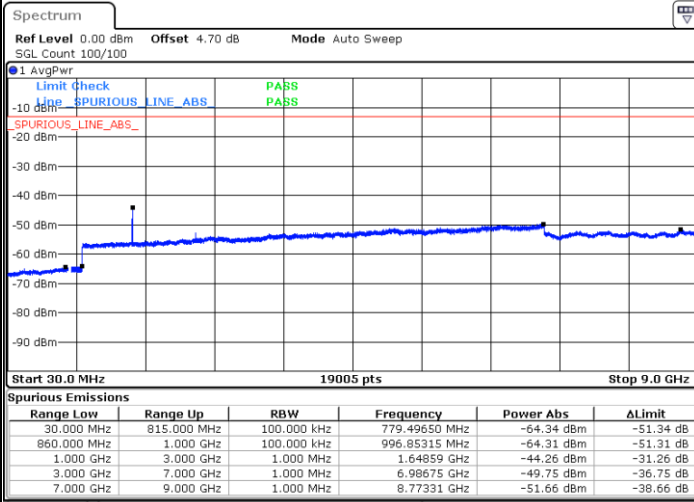
Date: 3.SEP.2020 06:28:24



LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

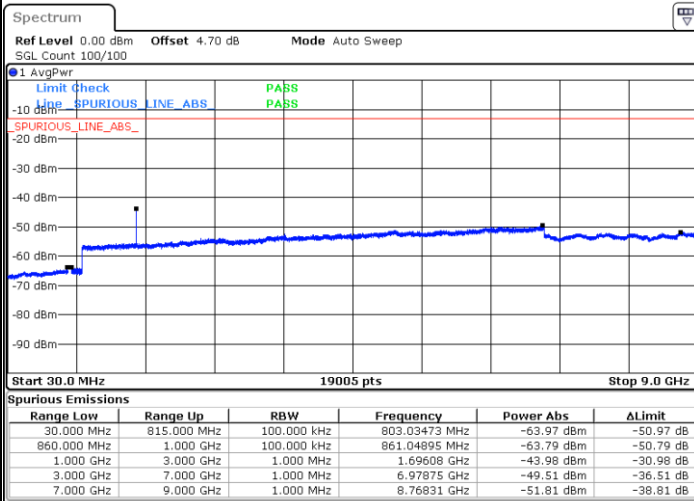
Middle Channel / 64QAM



Date: 3 SEP.2020 06:33:13

Date: 3 SEP.2020 06:34:07

Highest Channel / 64QAM



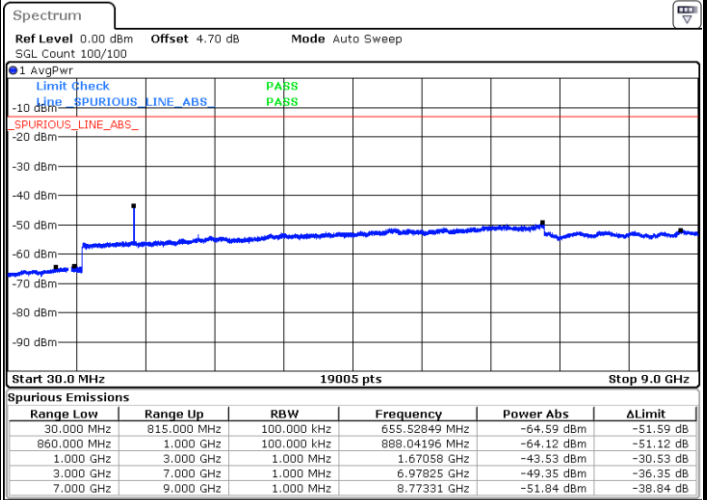
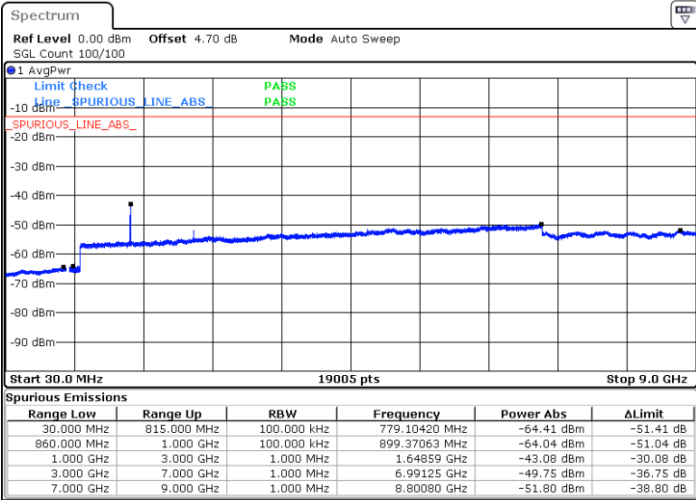
Date: 3 SEP.2020 06:38:56



LTE Band 5 / 3MHz

Lowest Channel / 64QAM

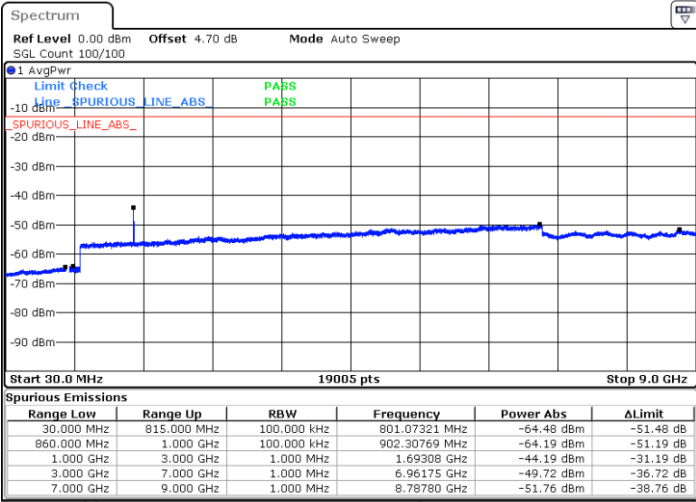
Middle Channel / 64QAM



Date: 3 SEP.2020 06:46:30

Date: 3 SEP.2020 06:47:24

Highest Channel / 64QAM

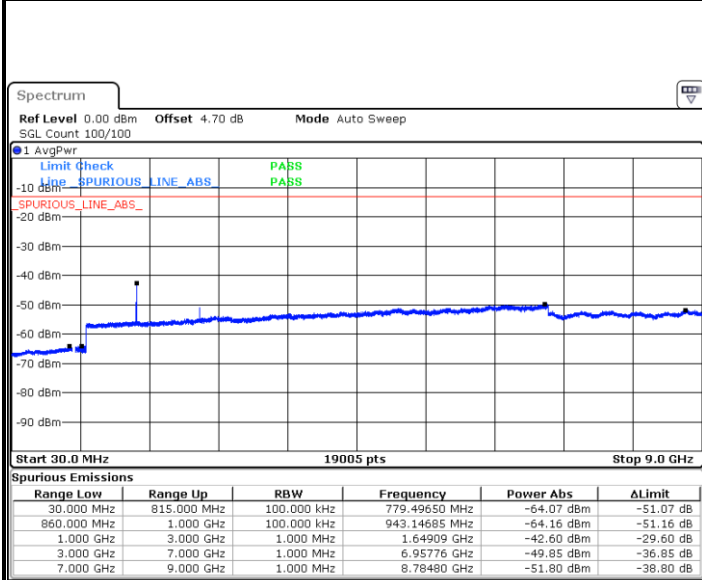


Date: 3 SEP.2020 06:52:13



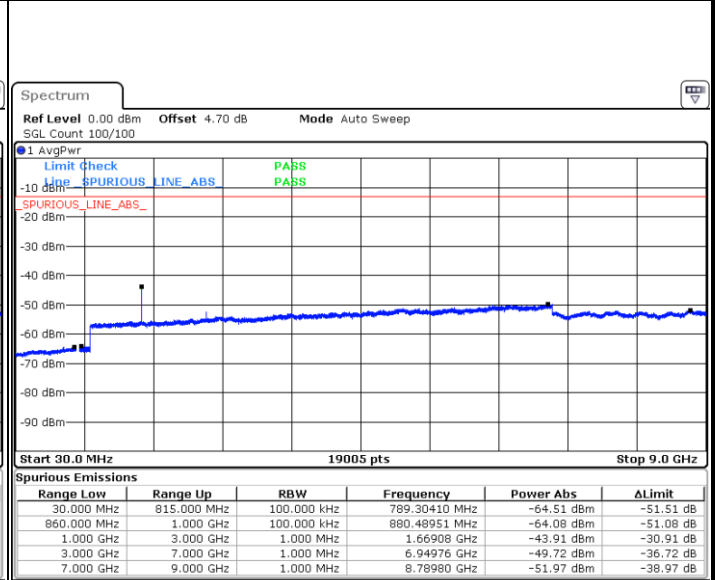
LTE Band 5 / 5MHz

Lowest Channel / 64QAM



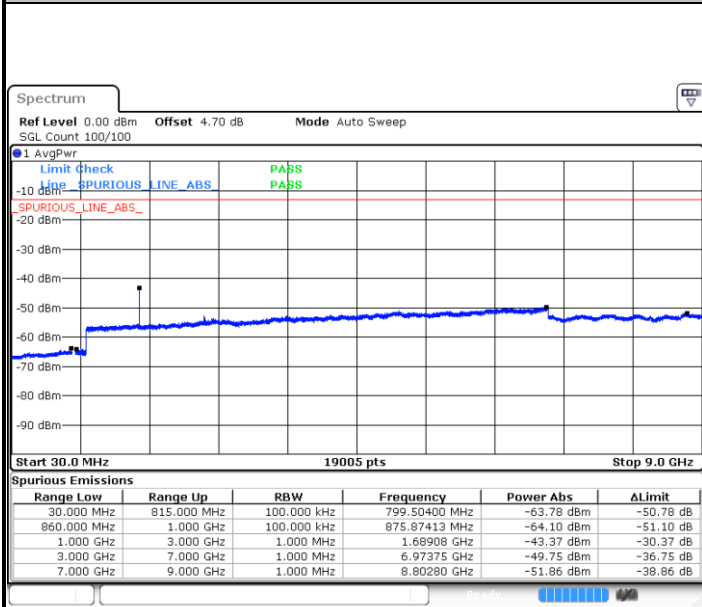
Date: 3 SEP.2020 06:58:36

Middle Channel / 64QAM



Date: 3 SEP.2020 06:59:30

Highest Channel / 64QAM



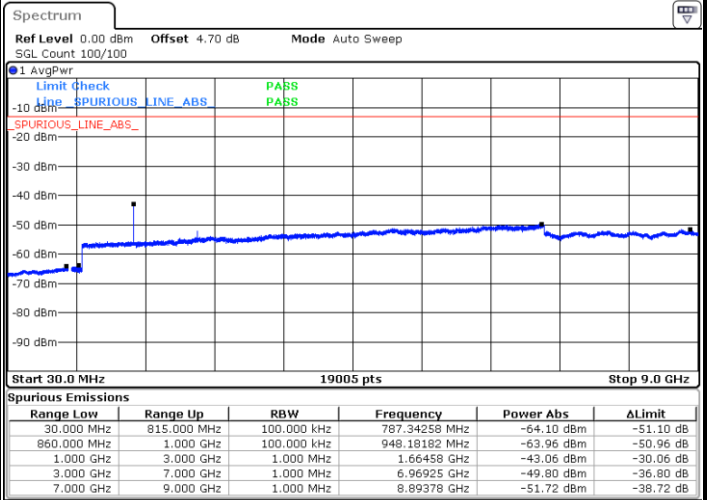
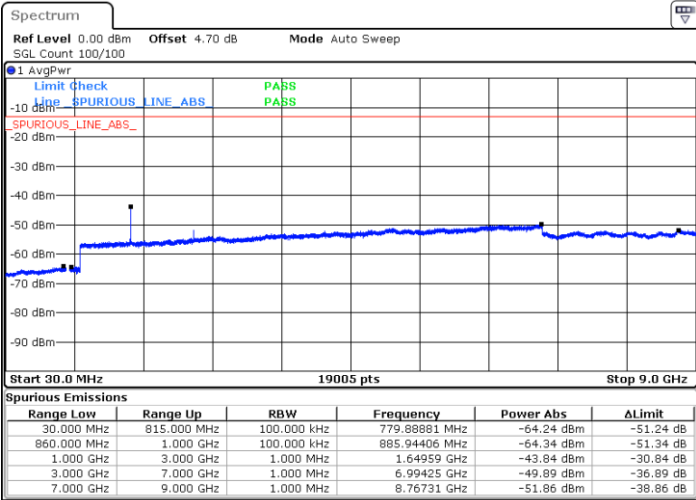
Date: 3 SEP.2020 07:04:19



LTE Band 5 / 10MHz

Lowest Channel / 64QAM

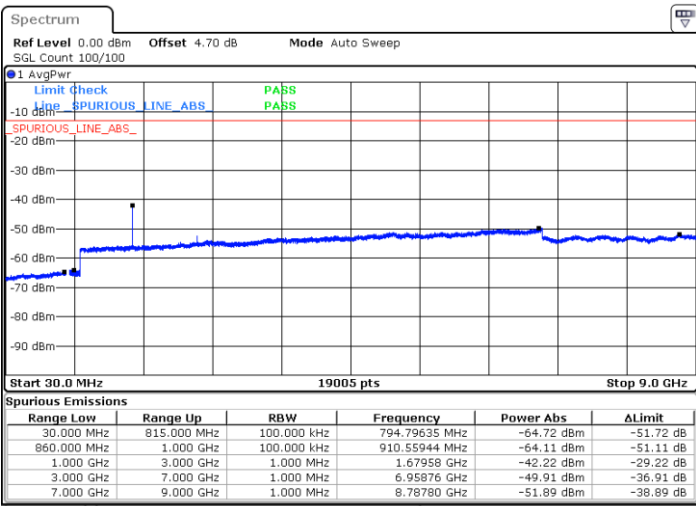
Middle Channel / 64QAM



Date: 3.SEP.2020 07:13:06

Date: 3.SEP.2020 07:14:00

Highest Channel / 64QAM



Date: 3.SEP.2020 07:18:49



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0067	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note: Normal Voltage =3.8V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 2 / 20MHz / QPSK								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3741	-60.30	-13	-47.30	-72.56	2.64	14.90	H
	5613	-56.38	-13	-43.38	-68.24	2.94	14.80	H
	7488	-51.51	-13	-38.51	-61.28	3.39	13.16	H
	3741	-60.39	-13	-47.39	-72.65	2.64	14.90	V
	5613	-56.26	-13	-43.26	-68.12	2.94	14.80	V
	7488	-51.01	-13	-38.01	-60.78	3.39	13.16	V

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

LTE Band 5 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1664	-68.47	-13	-55.47	-75.44	1.58	10.70	H
	2496	-65.50	-13	-52.50	-73.75	2.102	12.50	H
	3330	-63.99	-13	-50.99	-72.88	2.856	13.90	H
	1664	-68.24	-13	-55.24	-75.21	1.58	10.70	V
	2496	-65.73	-13	-52.73	-73.98	2.10	12.50	V
	3330	-64.35	-13	-51.35	-73.24	2.86	13.90	V

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



Appendix D. Reference Report

Please refer to Sporton report number FG080709-01B and FG080709-01C which is issued separately.