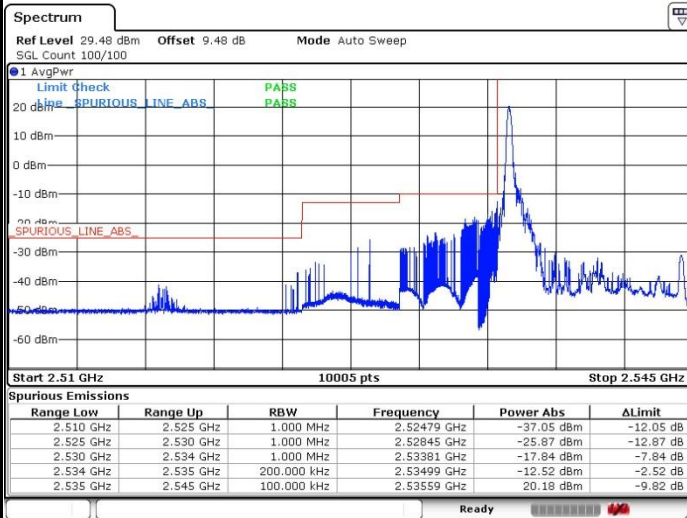




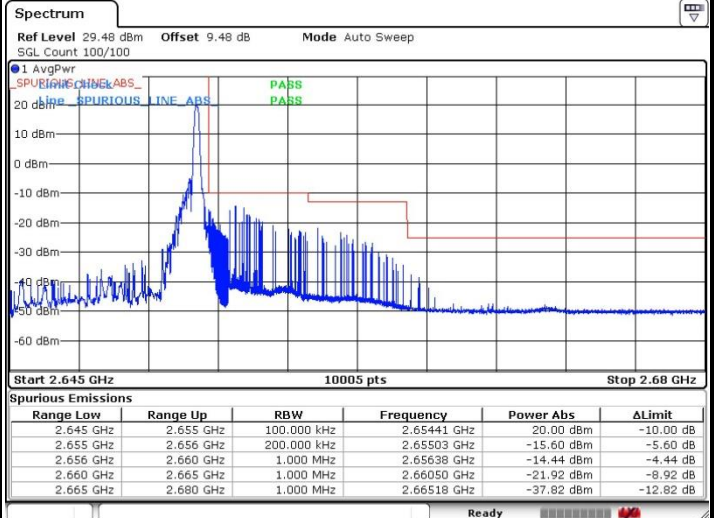
LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB



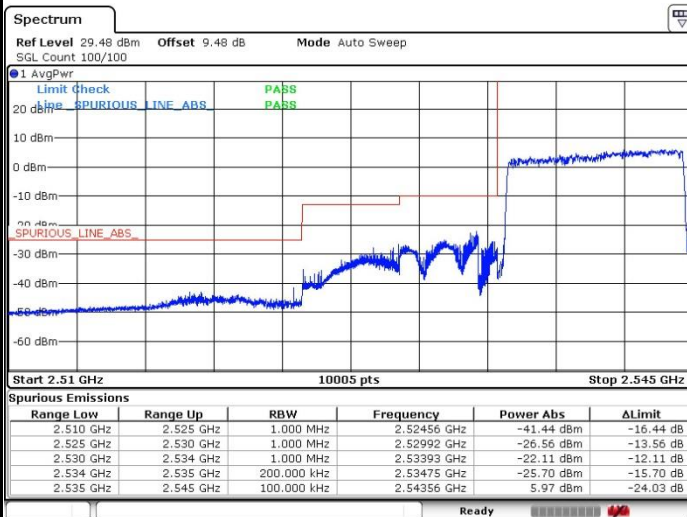
Date: 6. JAN.2020 06:03:21

Highest Band Edge / 1 RB



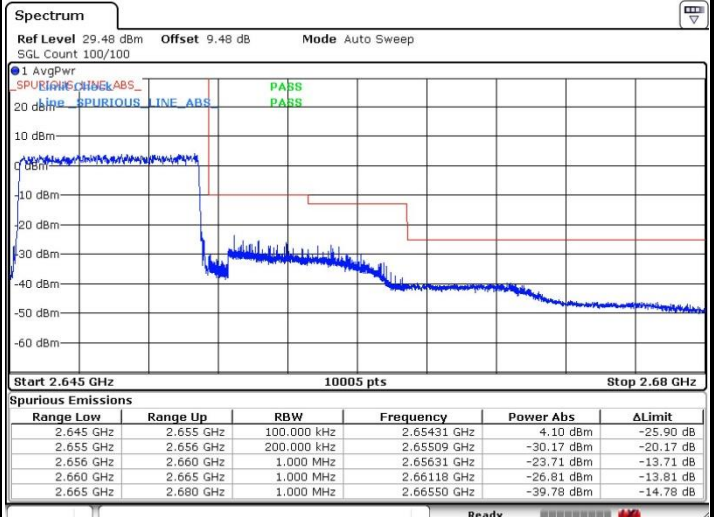
Date: 6. JAN.2020 06:29:17

Lowest Band Edge / Full RB



Date: 6. JAN.2020 05:59:40

Highest Band Edge / Full RB

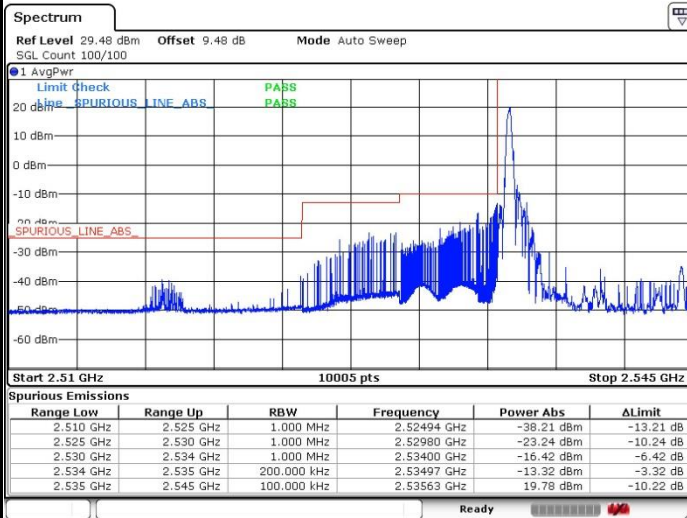


Date: 6. JAN.2020 06:26:45



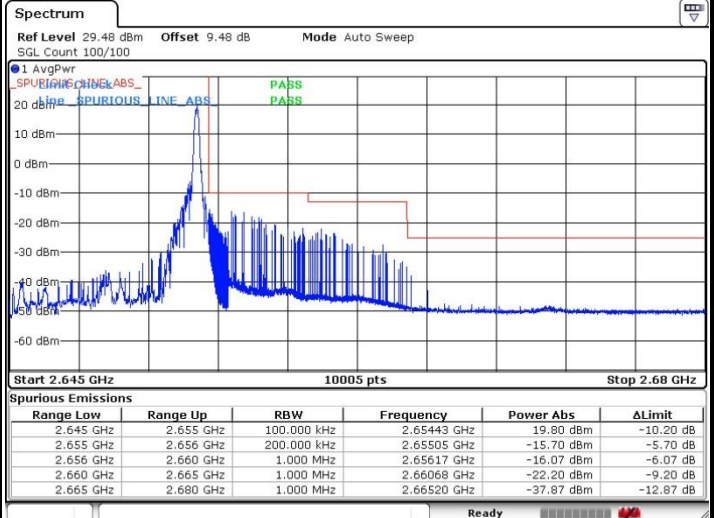
LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



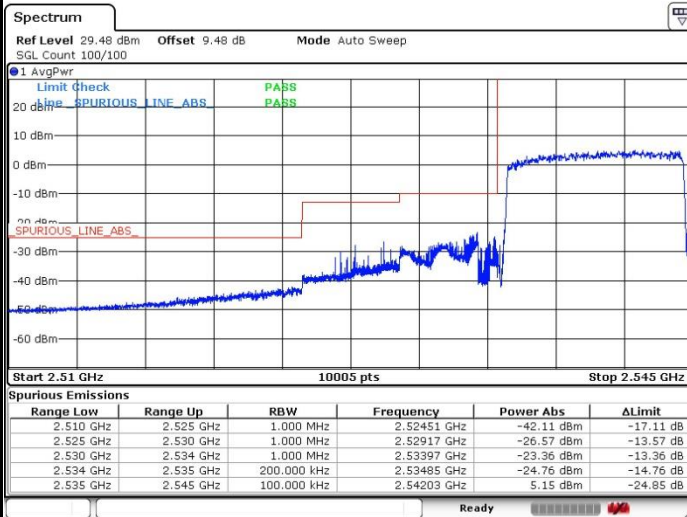
Date: 6. JAN 2020 06:03:03

Highest Band Edge / 1 RB



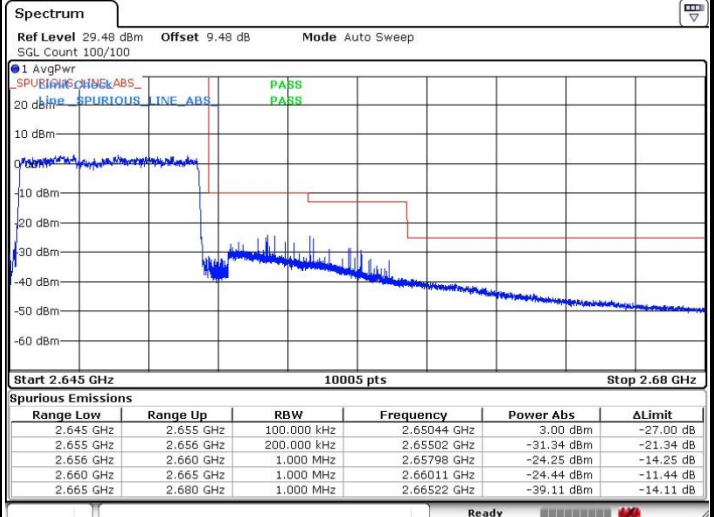
Date: 6. JAN 2020 06:29:00

Lowest Band Edge / Full RB



Date: 6. JAN 2020 06:02:03

Highest Band Edge / Full RB

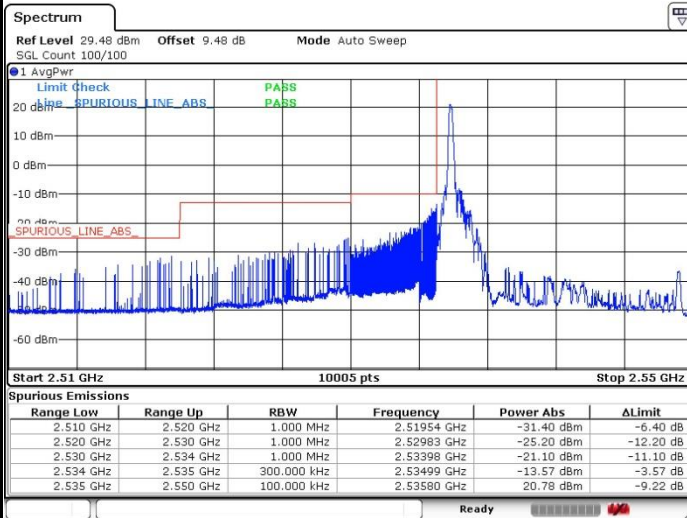


Date: 6. JAN 2020 06:28:03



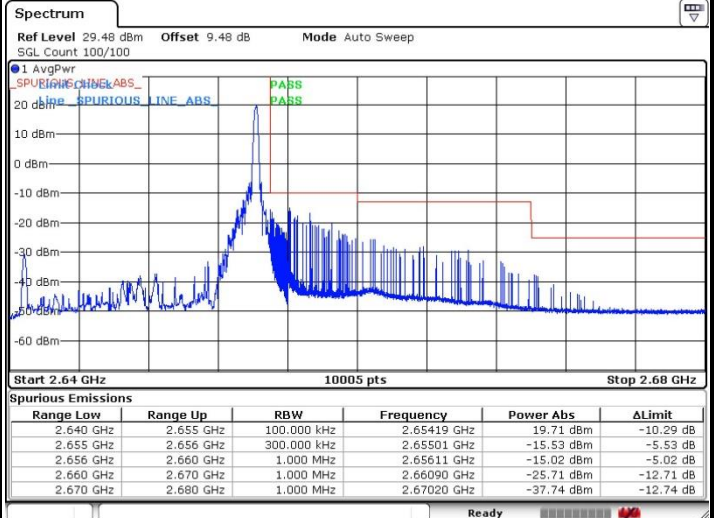
LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB



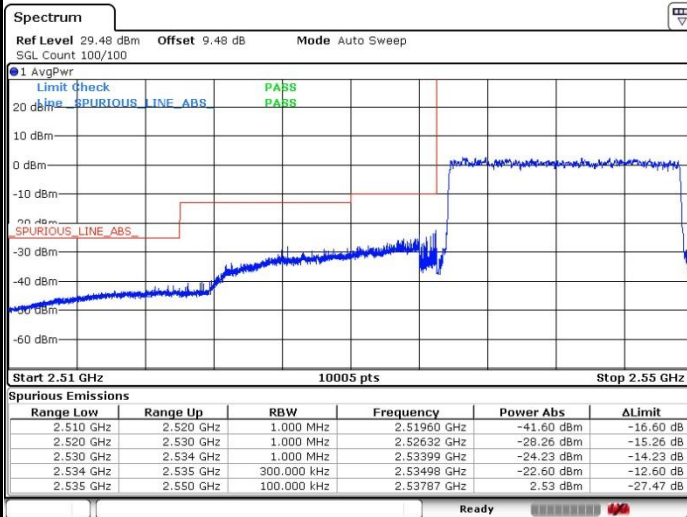
Date: 6. JAN.2020 06:13:40

Highest Band Edge / 1 RB



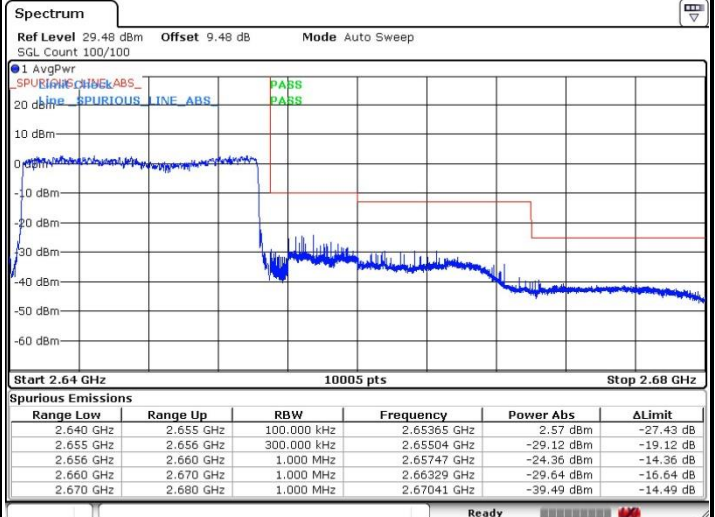
Date: 6. JAN.2020 06:32:50

Lowest Band Edge / Full RB



Date: 6. JAN.2020 06:11:48

Highest Band Edge / Full RB

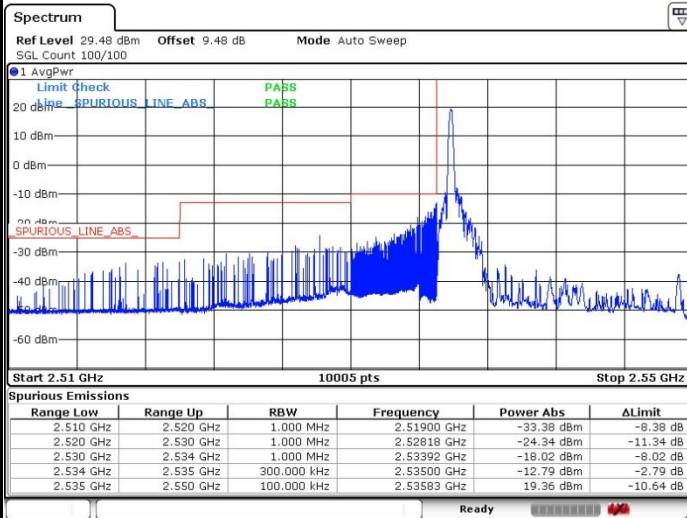


Date: 6. JAN.2020 06:31:17

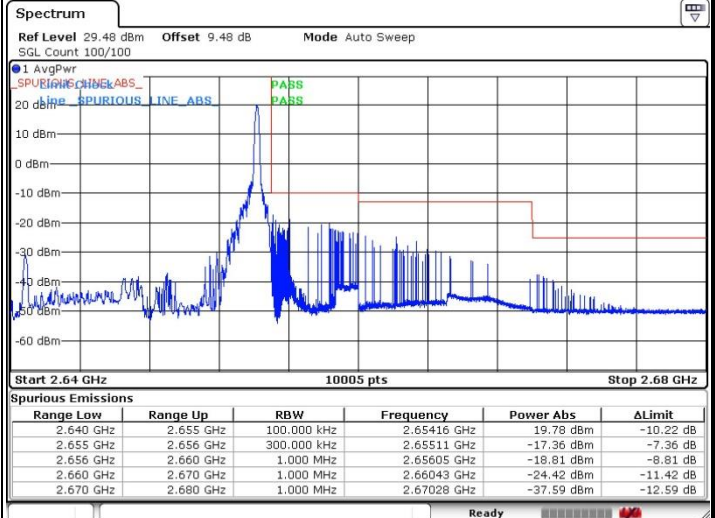


LTE Band 41 / 15MHz / 16QAM

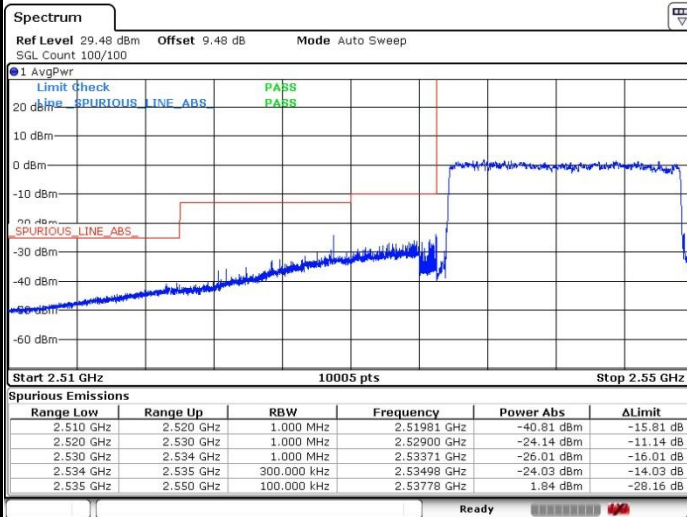
Lowest Band Edge / 1 RB



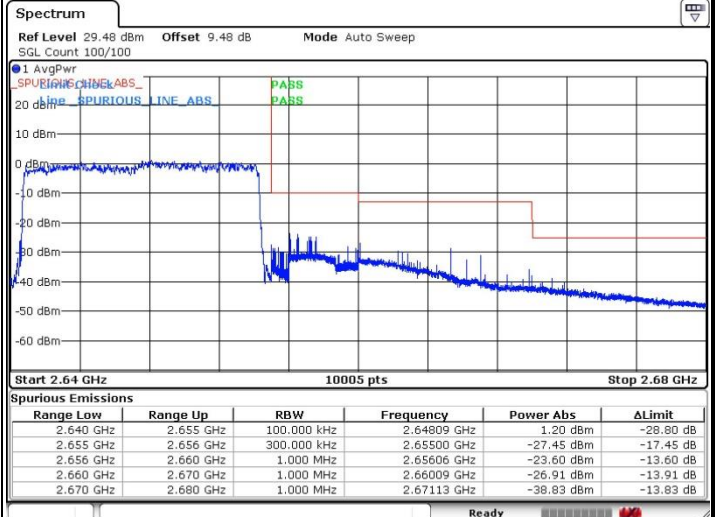
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



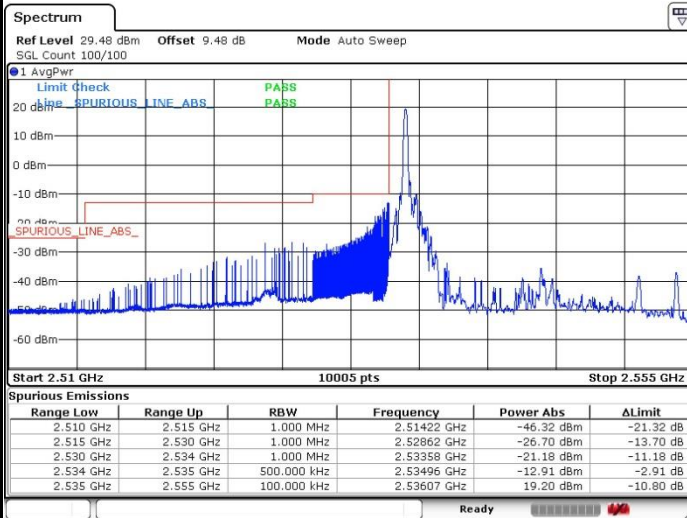
Highest Band Edge / Full RB





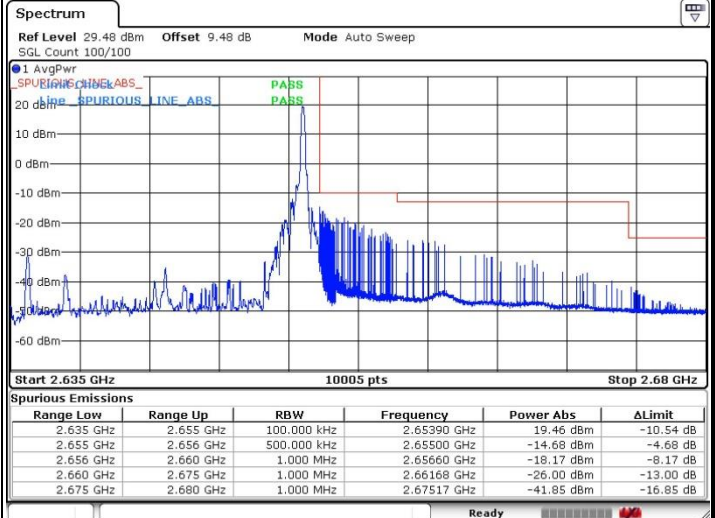
LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB



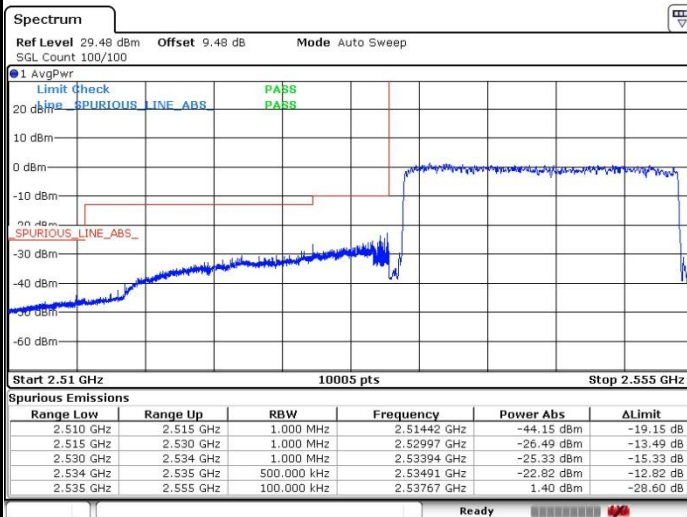
Date: 6. JAN.2020 06:19:08

Highest Band Edge / 1 RB



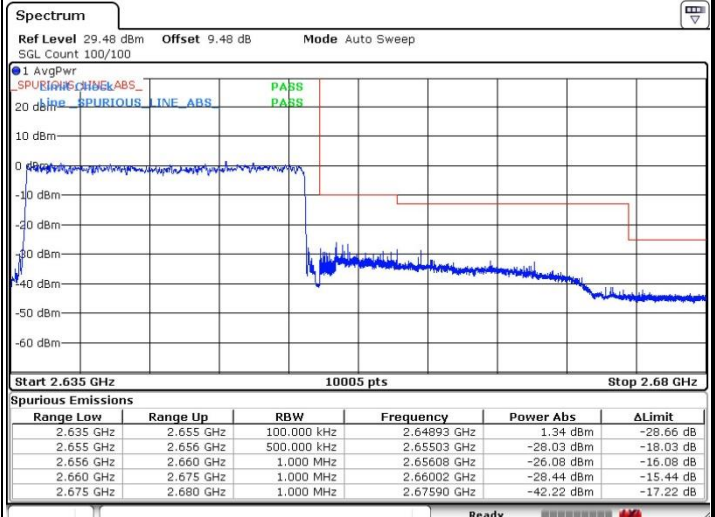
Date: 6. JAN.2020 05:19:59

Lowest Band Edge / Full RB



Date: 6. JAN.2020 06:17:32

Highest Band Edge / Full RB

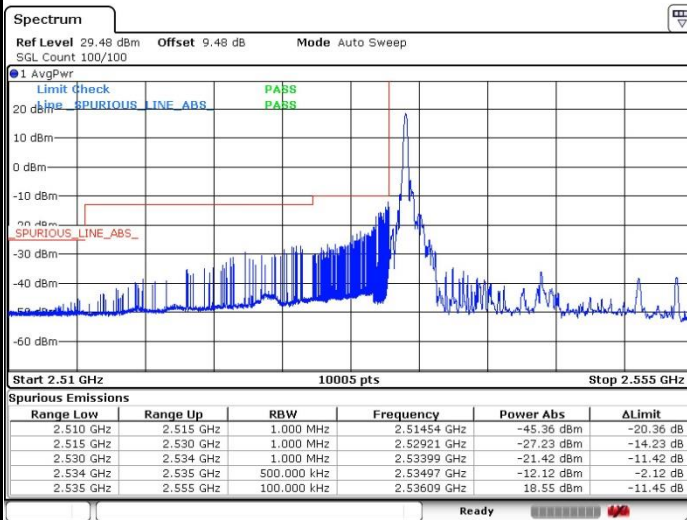


Date: 6. JAN.2020 05:18:13



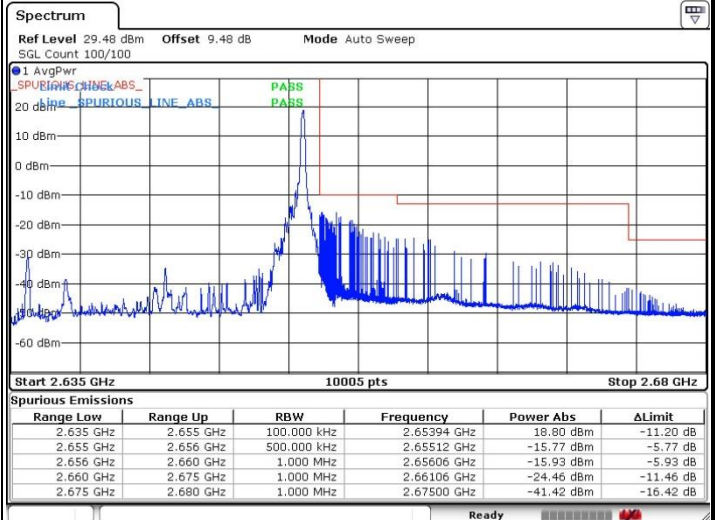
LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



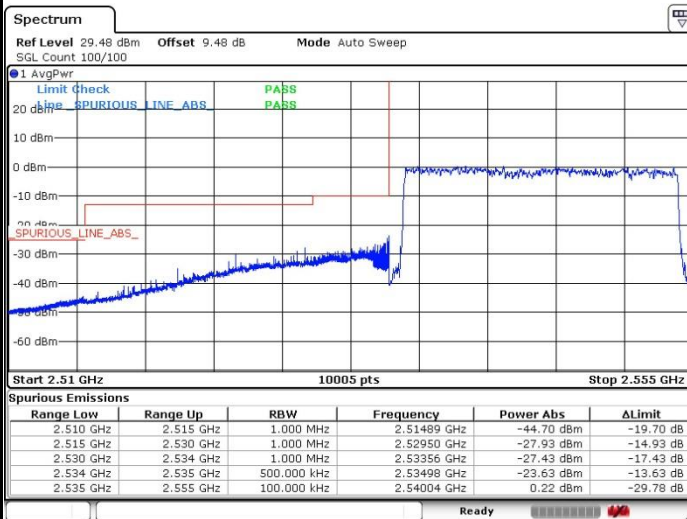
Date: 6. JAN.2020 06:18:52

Highest Band Edge / 1RB



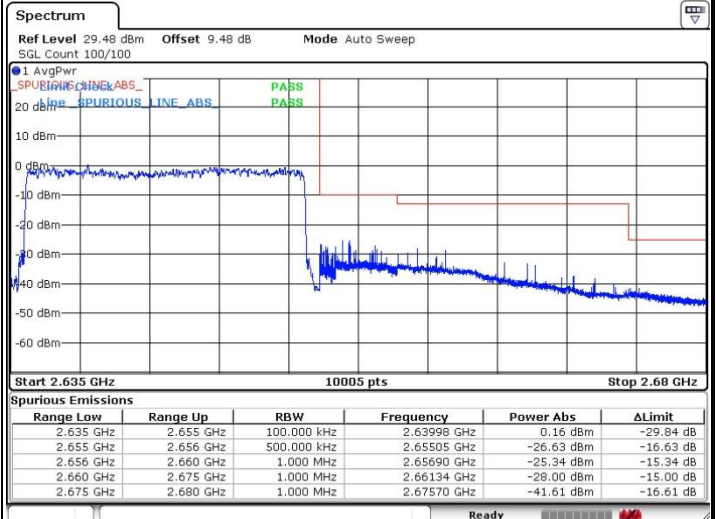
Date: 6. JAN.2020 05:19:45

Lowest Band Edge / Full RB



Date: 6. JAN.2020 06:17:57

Highest Band Edge / Full RB



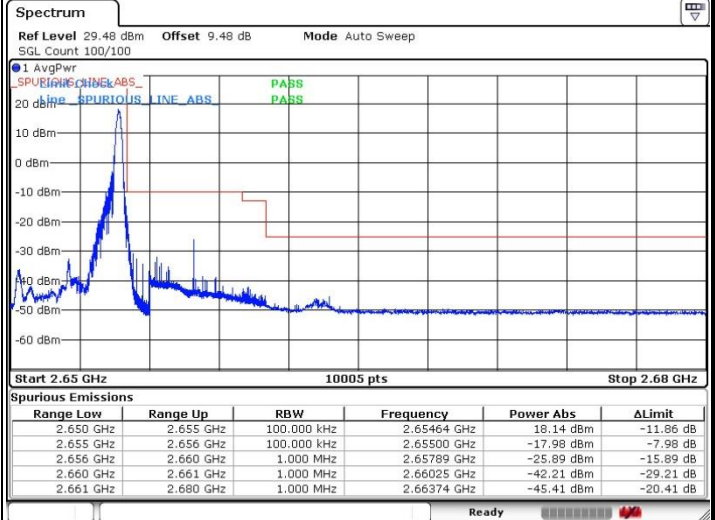
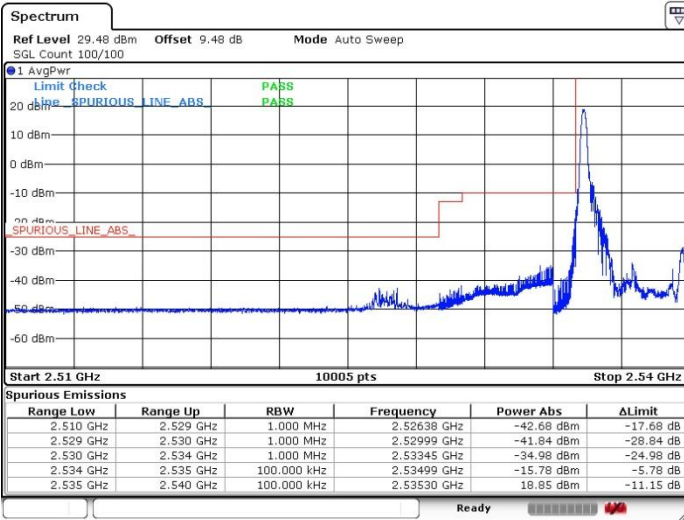
Date: 6. JAN.2020 05:18:45



LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

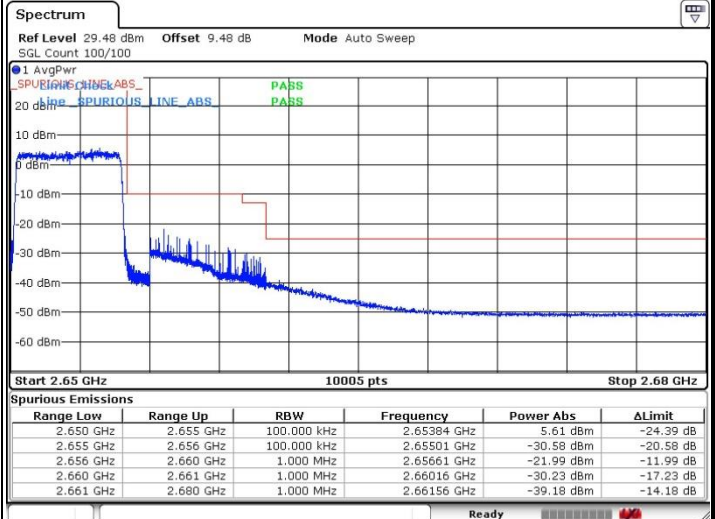
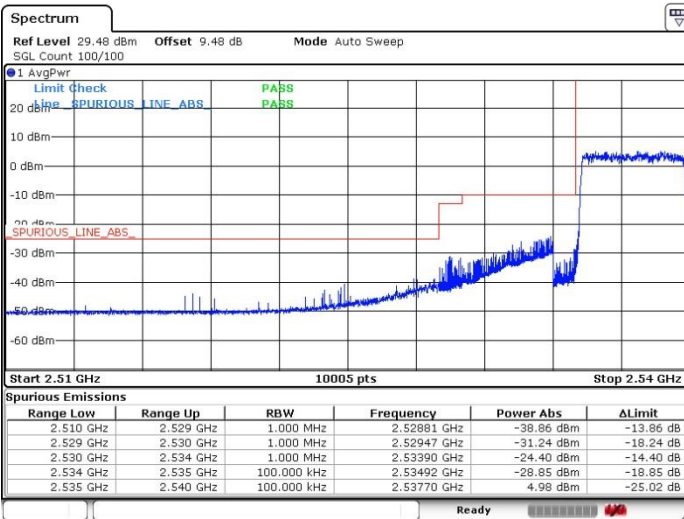


Date: 6 JAN 2020 05:43:36

Date: 6 JAN 2020 05:36:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



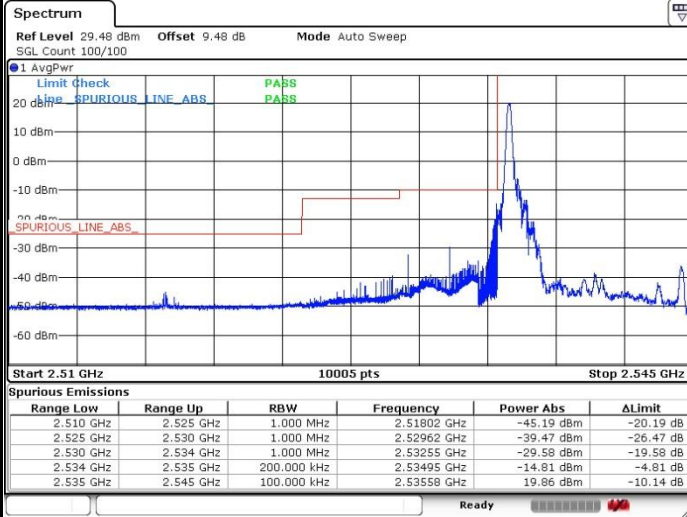
Date: 6 JAN 2020 05:44:12

Date: 6 JAN 2020 05:35:54



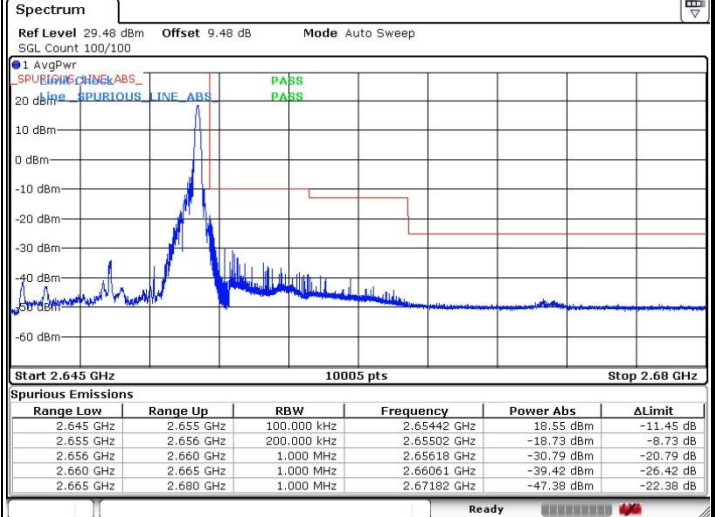
LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



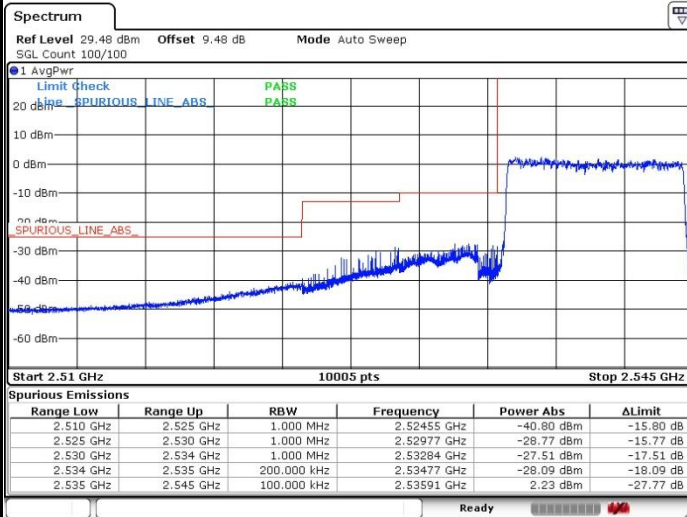
Date: 6 JAN 2020 06:02:46

Highest Band Edge / 1 RB



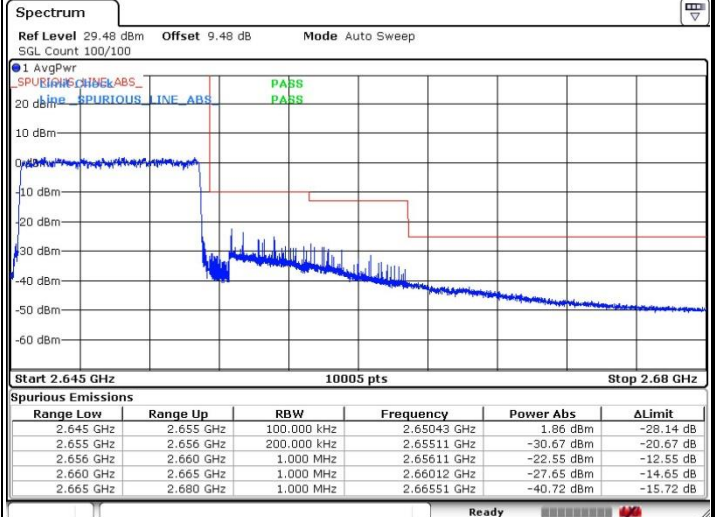
Date: 6 JAN 2020 06:28:40

Lowest Band Edge / Full RB



Date: 6 JAN 2020 06:02:26

Highest Band Edge / Full RB

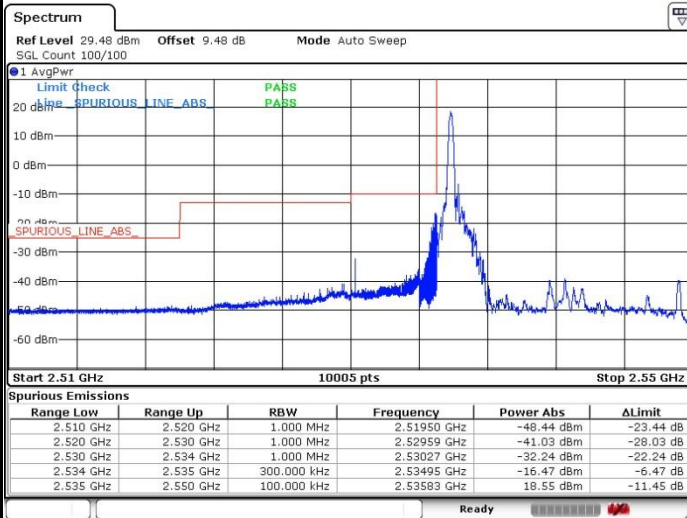


Date: 6 JAN 2020 06:28:19



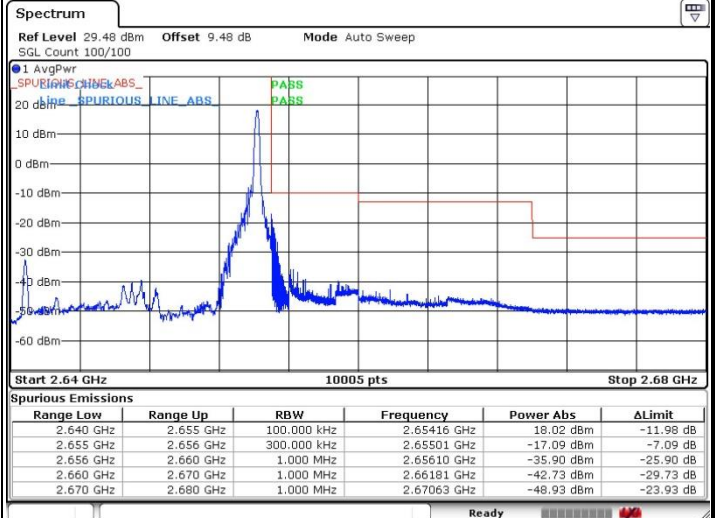
LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



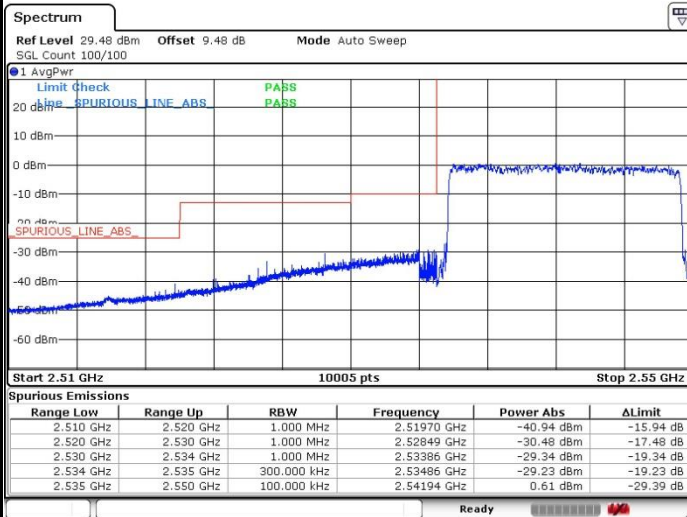
Date: 6. JAN.2020 06:12:54

Highest Band Edge / 1 RB



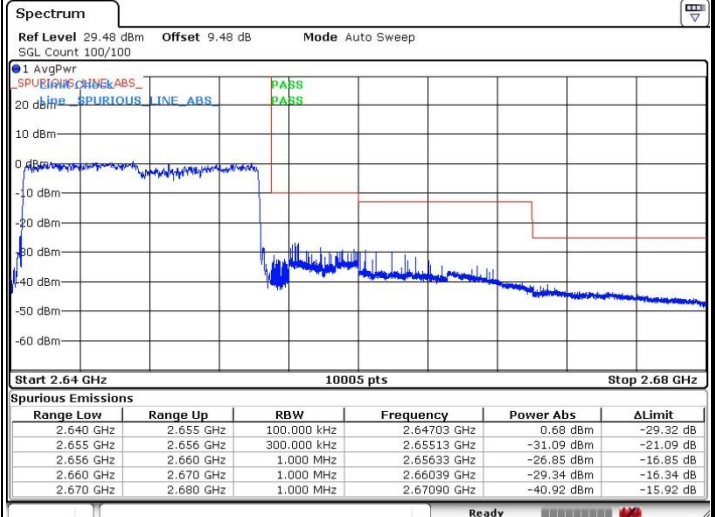
Date: 6. JAN.2020 06:32:19

Lowest Band Edge / Full RB



Date: 6. JAN.2020 06:12:35

Highest Band Edge / Full RB

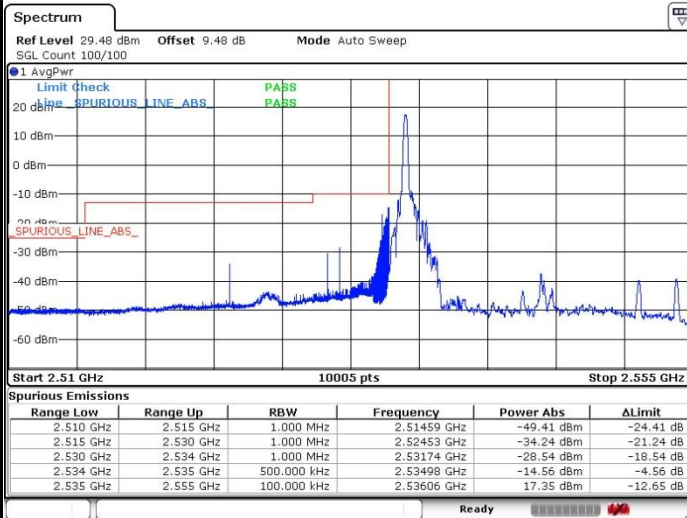


Date: 6. JAN.2020 06:31:56



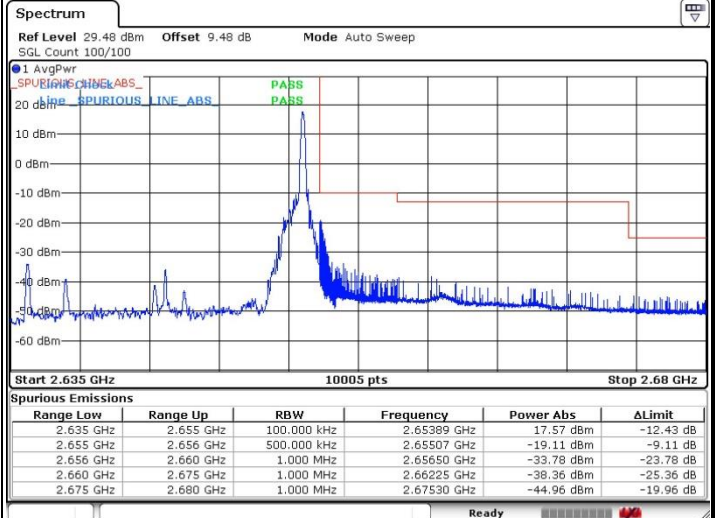
LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



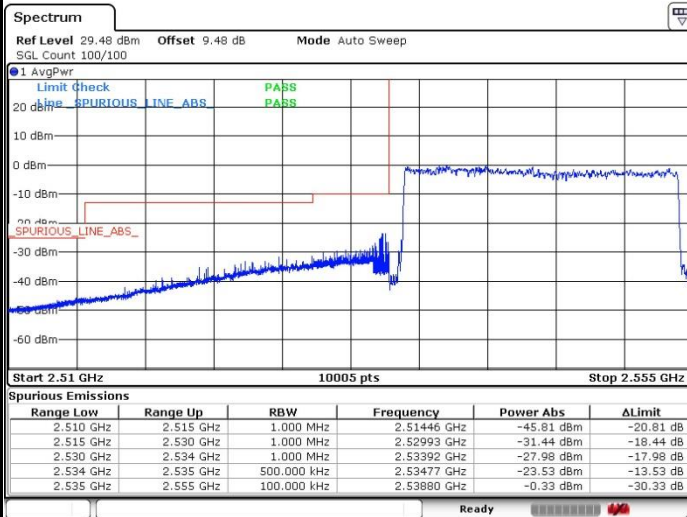
Date: 6. JAN.2020 06:18:33

Highest Band Edge / 1 RB



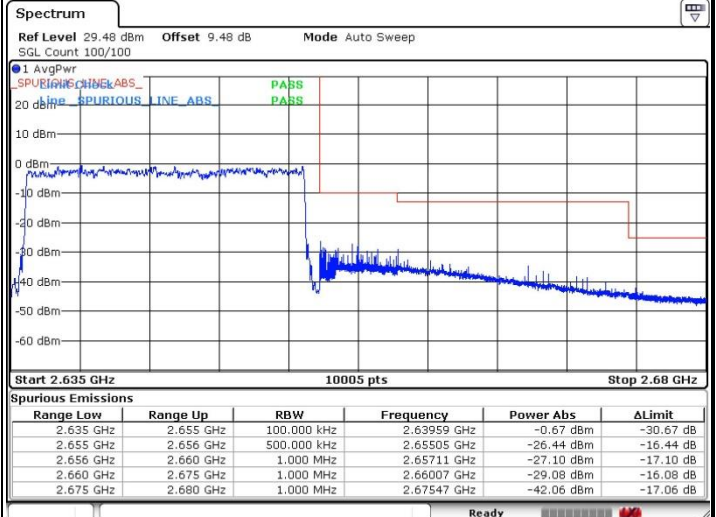
Date: 6. JAN.2020 05:19:23

Lowest Band Edge / Full RB



Date: 6. JAN.2020 06:18:16

Highest Band Edge / Full RB



Date: 6. JAN.2020 05:19:00



Conducted Spurious Emission

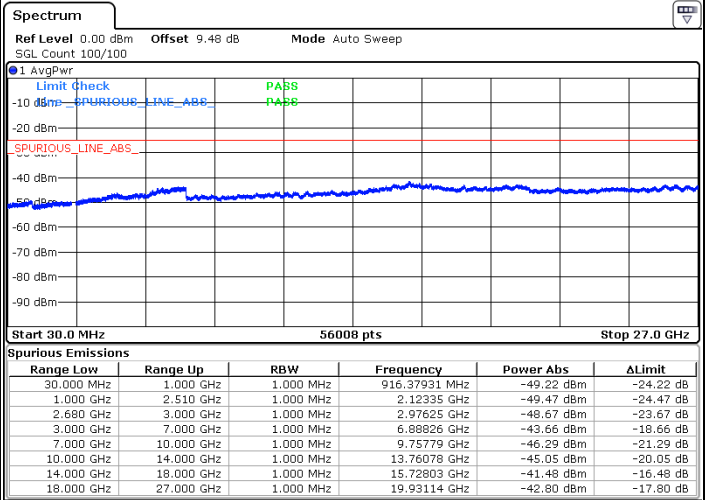
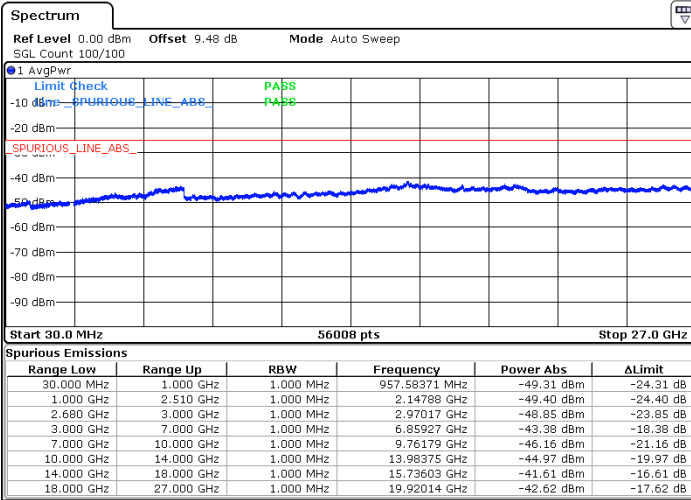




LTE Band 41 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



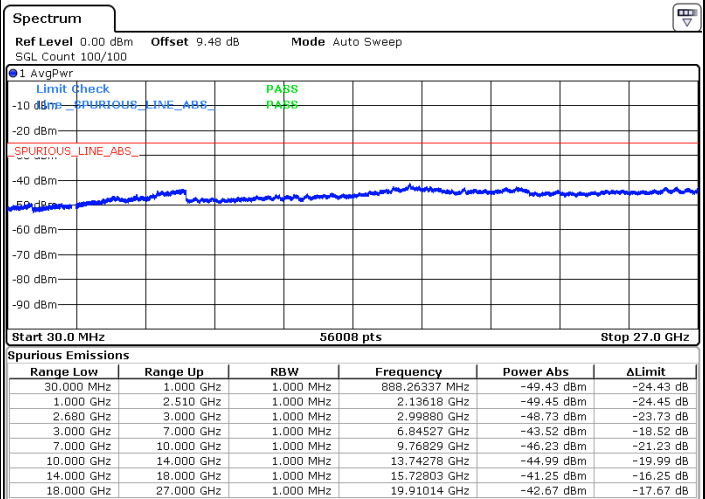
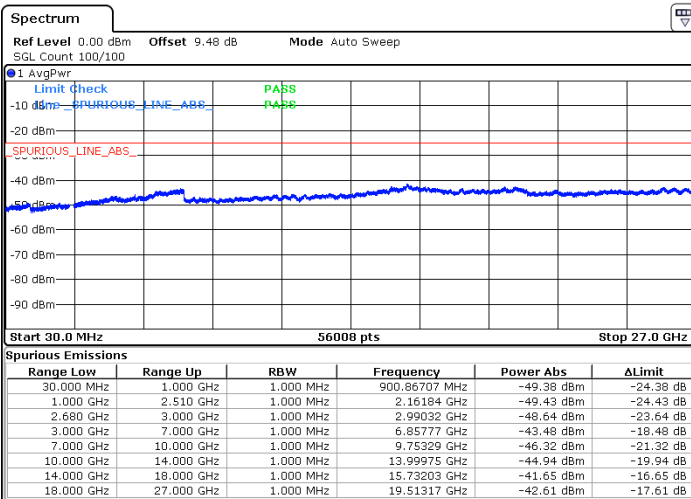
Date: 6_JAN 2020 08:22:45

Date: 6_JAN 2020 08:24:08

LTE Band 7 / 10MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Date: 6_JAN 2020 07:04:05

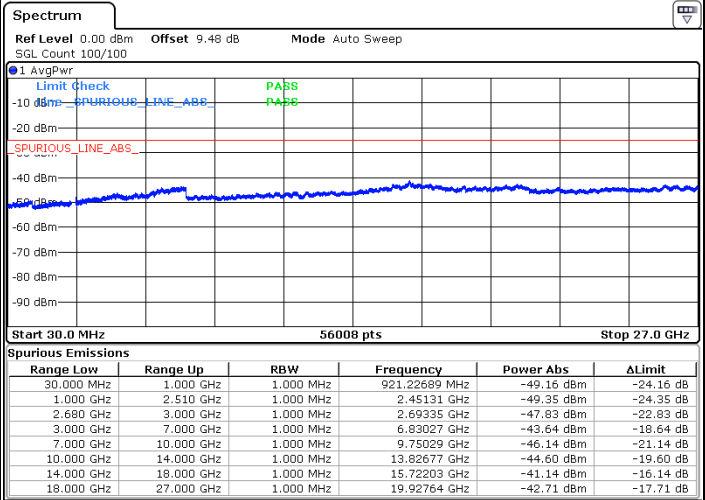
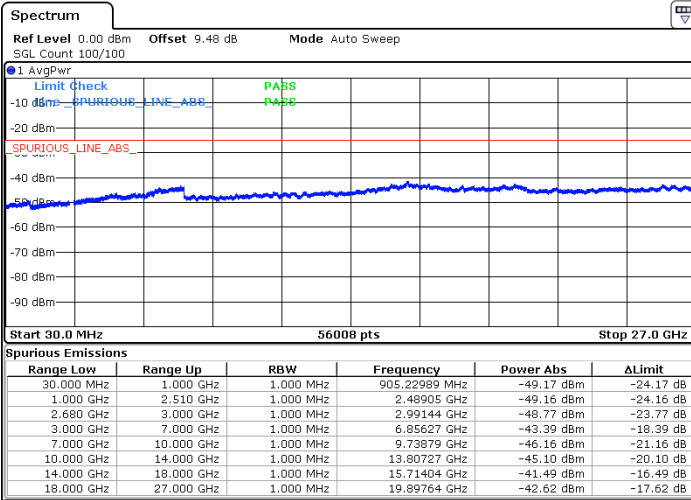
Date: 6_JAN 2020 07:03:17



LTE Band 41 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

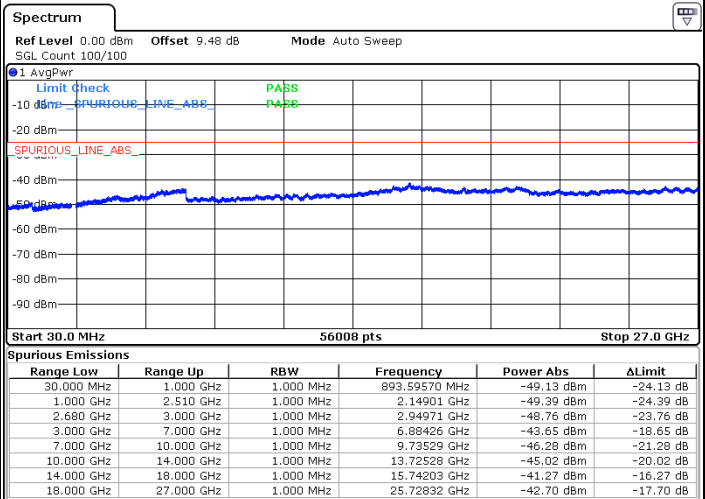
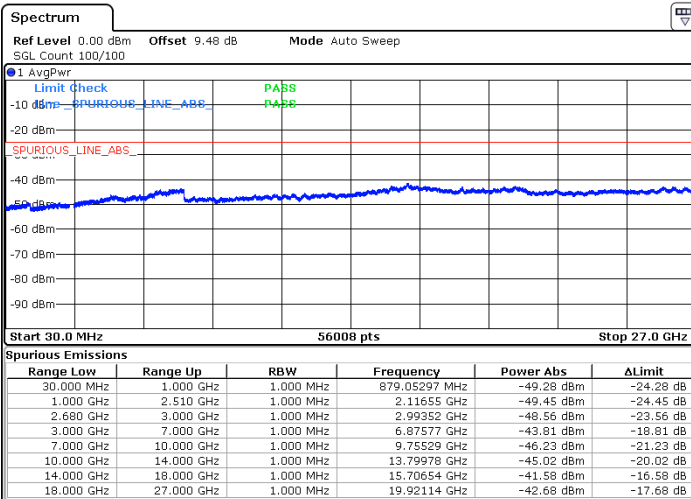


Date: 6.JAN.2020 06:58:50

Date: 6.JAN.2020 06:59:56

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6.JAN.2020 07:04:55

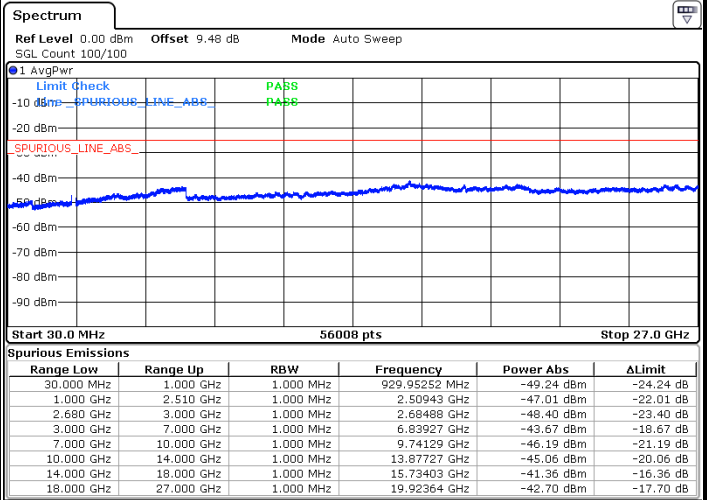
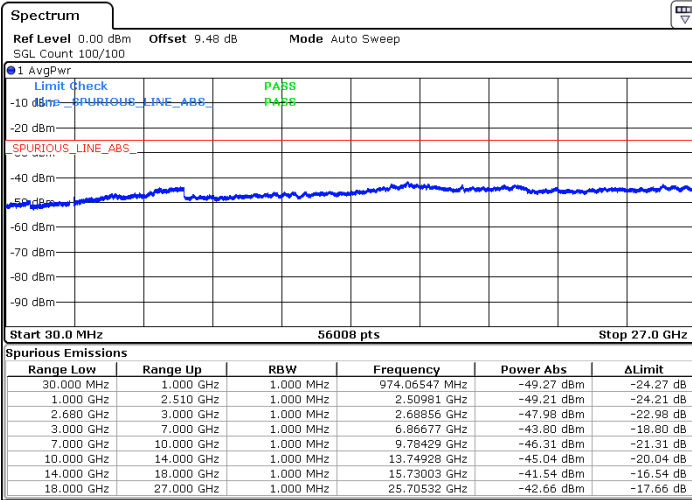
Date: 6.JAN.2020 07:05:45



LTE Band 41 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

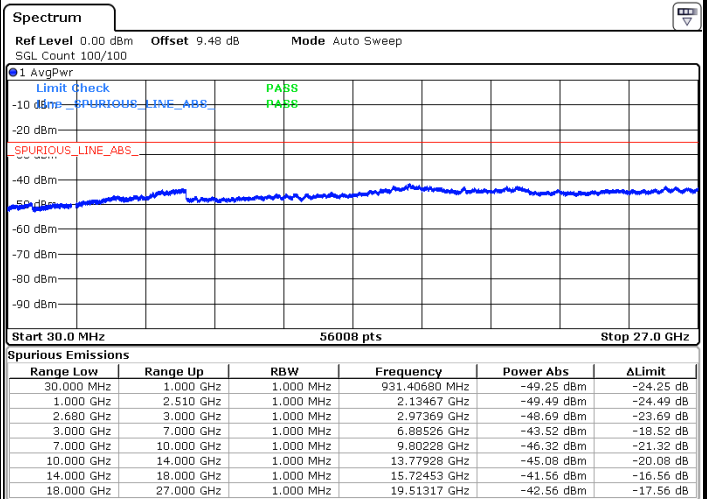
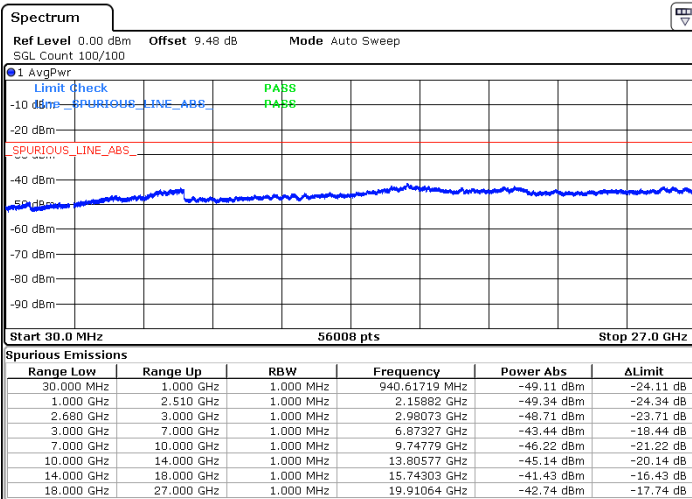


Date: 6.JAN.2020 06:43:50

Date: 6.JAN.2020 06:43:01

Middle Channel / QPSK

Middle Channel / 16QAM

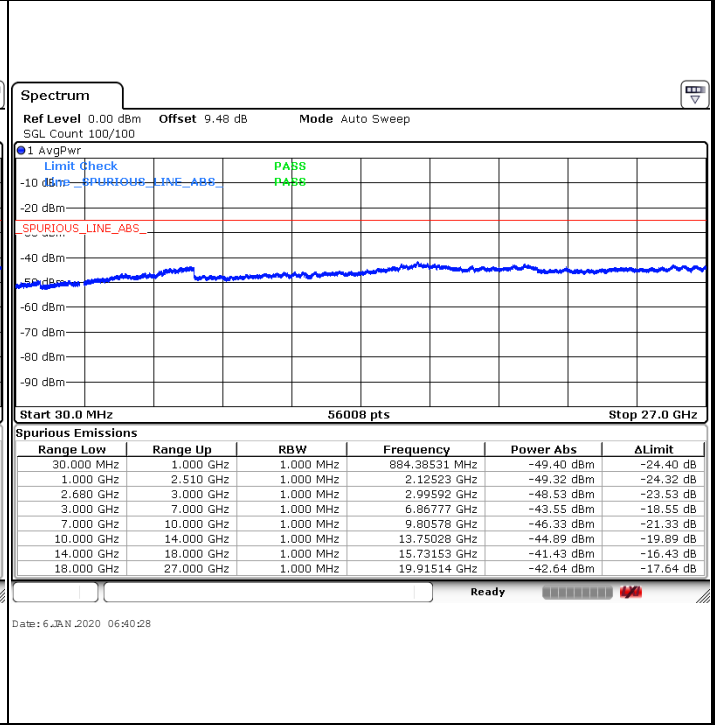
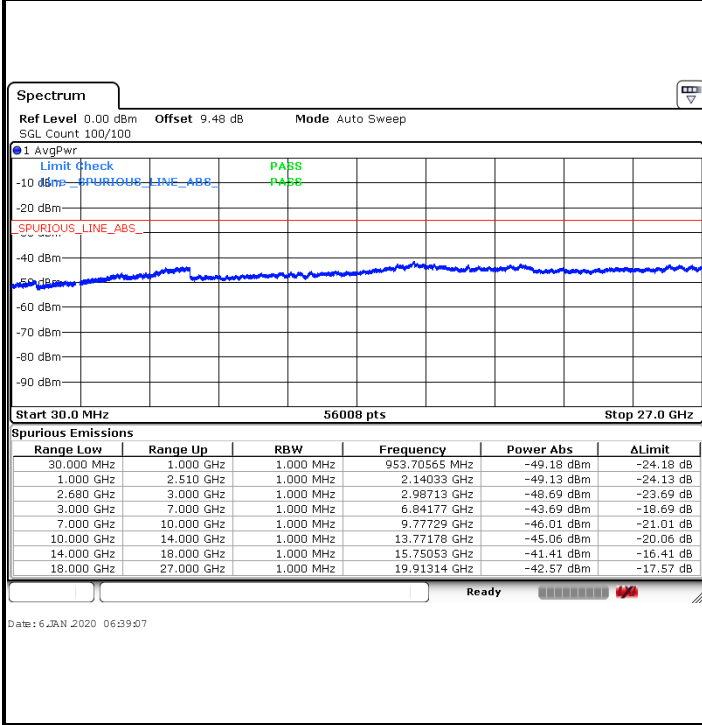


Date: 6.JAN.2020 06:44:40

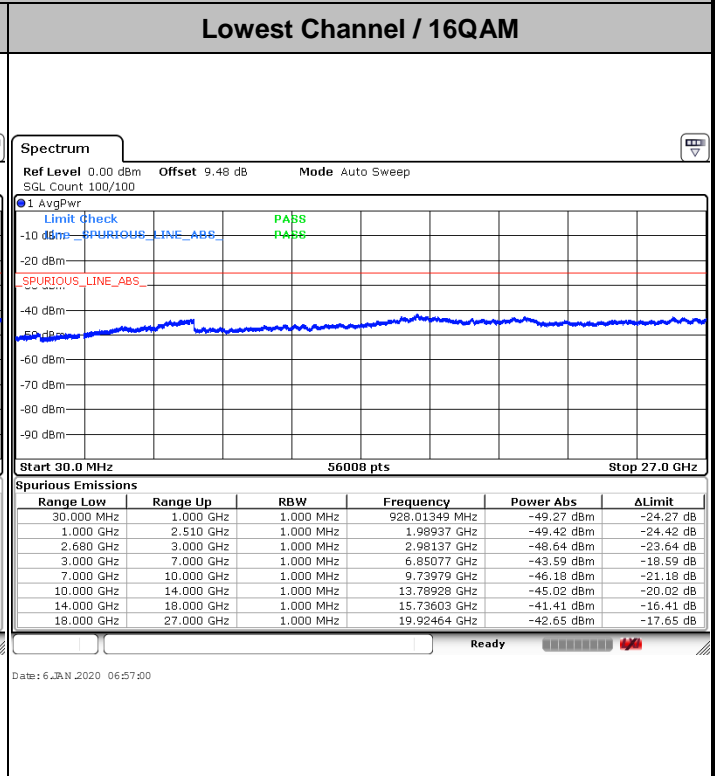
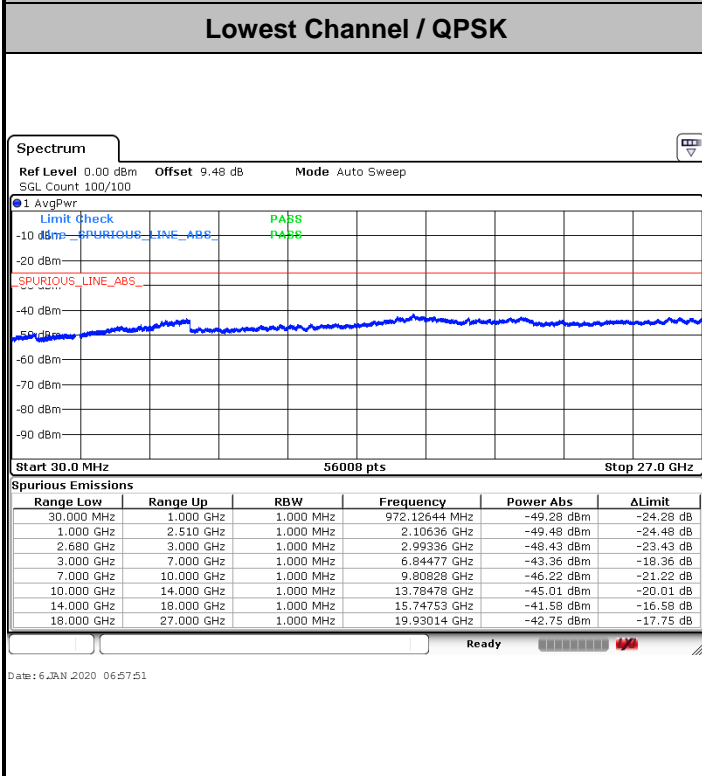
Date: 6.JAN.2020 06:45:37



Highest Channel / QPSK	Highest Channel / 16QAM
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LTE Band 41 / 20MHz

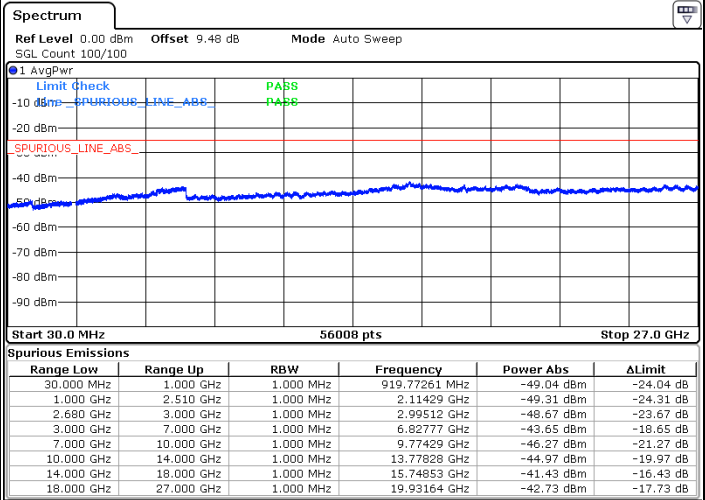
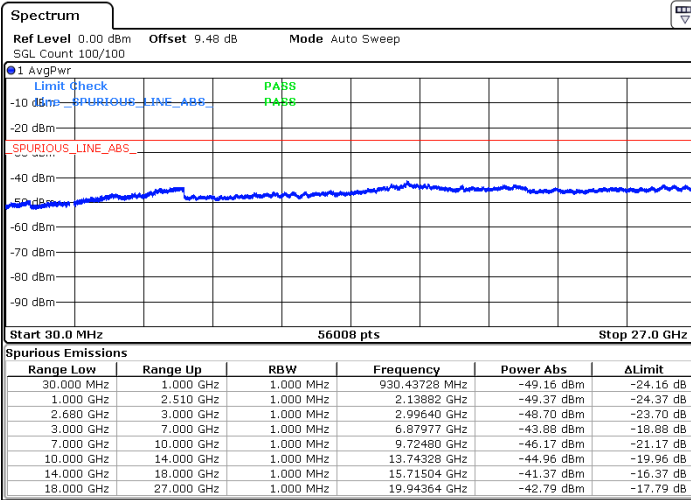




LTE Band 41 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

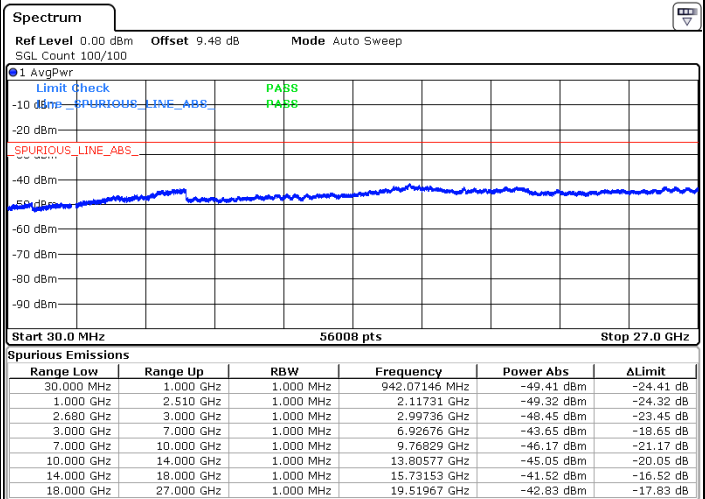
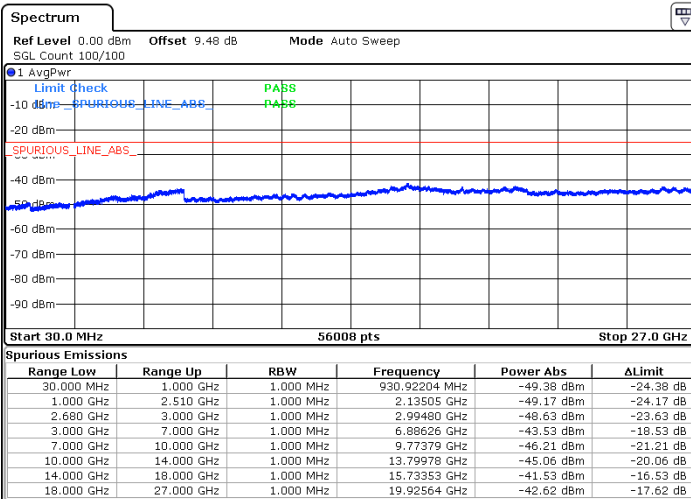


Date: 6.JAN.2020 06:51:44

Date: 6.JAN.2020 06:50:43

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 6.JAN.2020 06:53:20

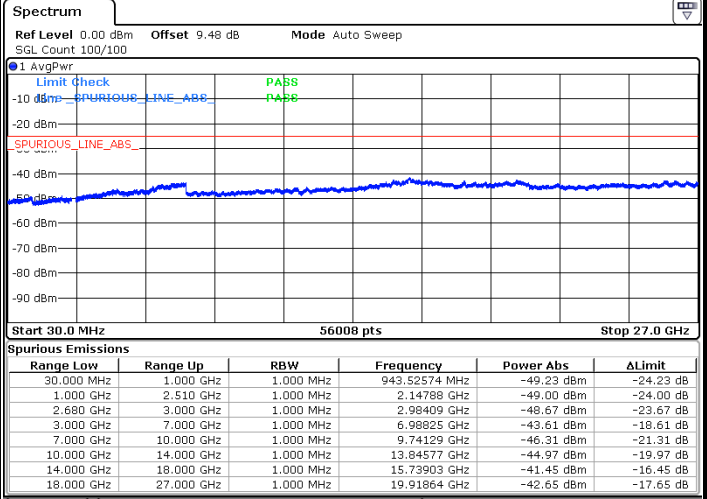
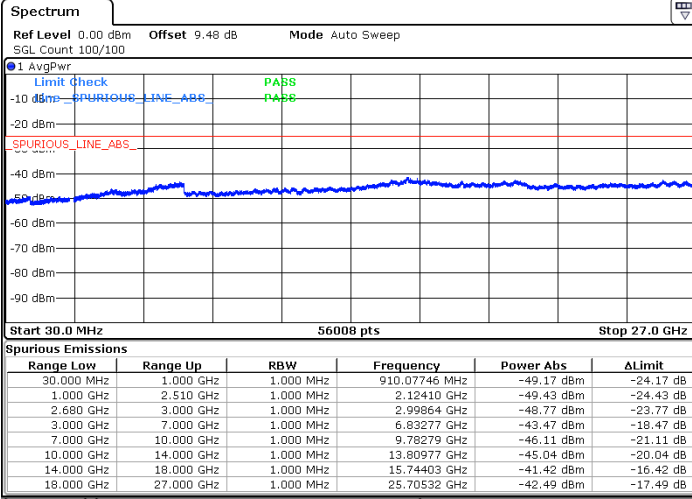
Date: 6.JAN.2020 06:54:12



LTE Band 41 / 5MHz

Lowest Channel / 64QAM

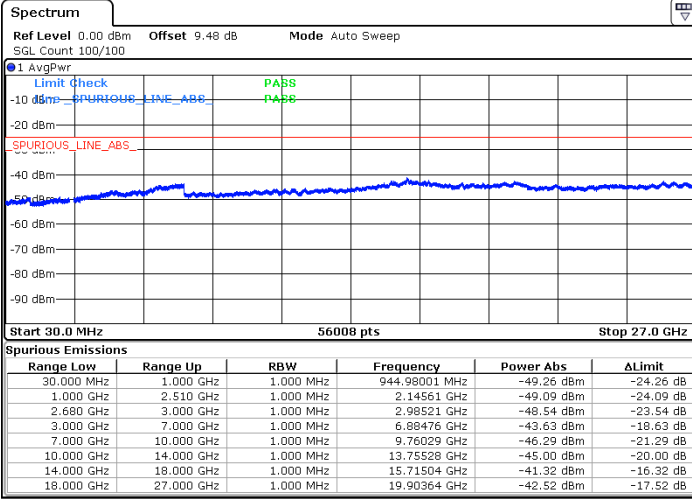
Middle Channel / 64QAM



Date: 6 JAN 2020 08:26:07

Date: 6 JAN 2020 08:14:50

Highest Channel / 64QAM



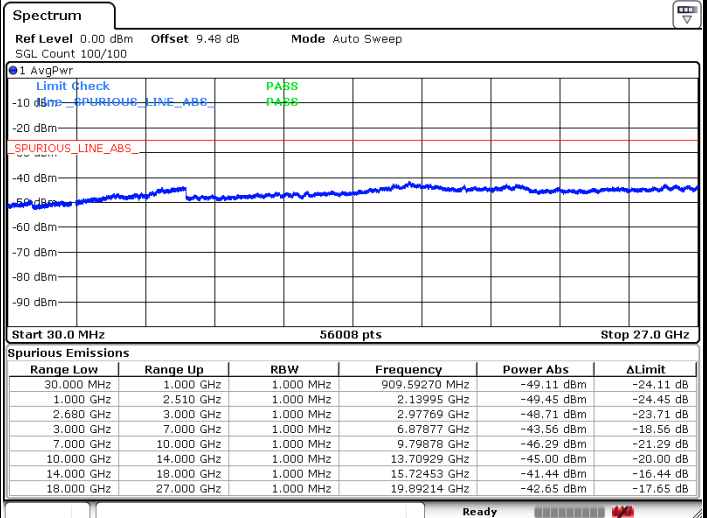
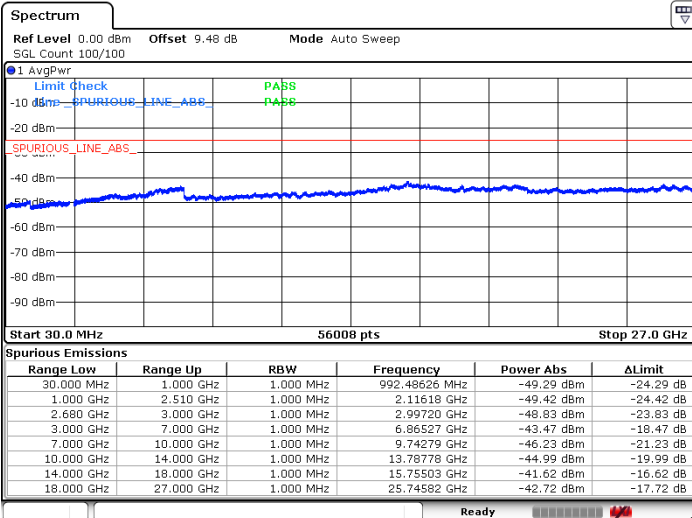
Date: 6 JAN 2020 08:24:57



LTE Band 41 / 10MHz

Lowest Channel / 64QAM

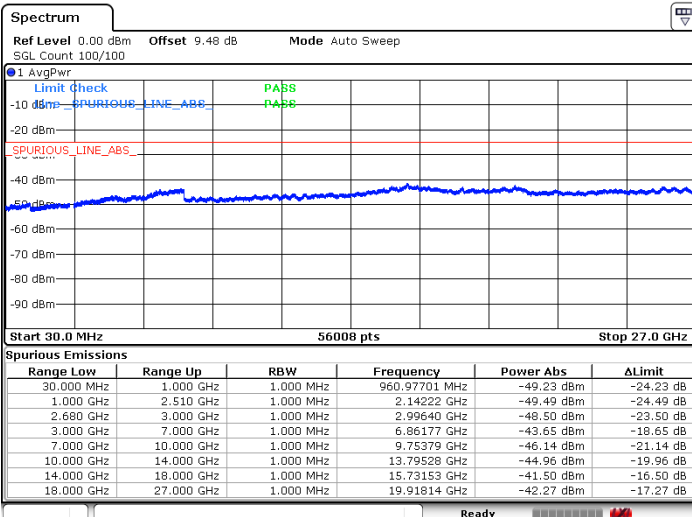
Middle Channel / 64QAM



Date: 6.JAN 2020 07:02:18

Date: 6.JAN 2020 07:00:44

Highest Channel / 64QAM



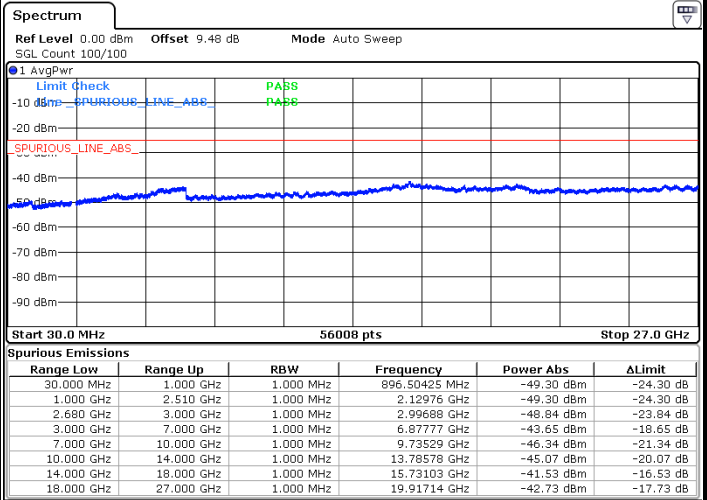
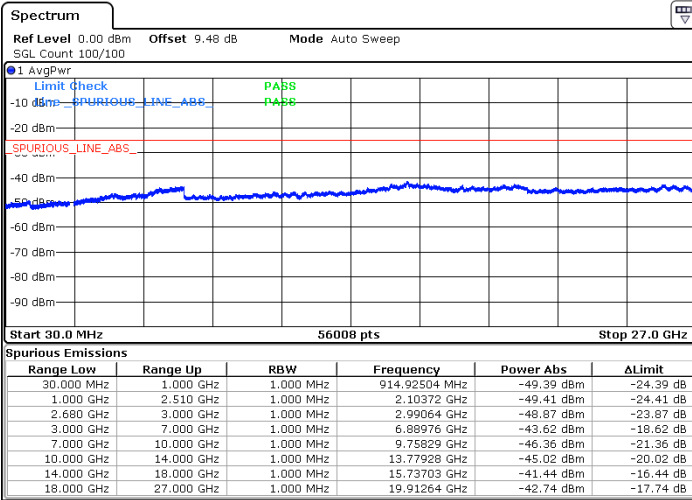
Date: 6.JAN 2020 07:06:32



LTE Band 41 / 15MHz

Lowest Channel / 64QAM

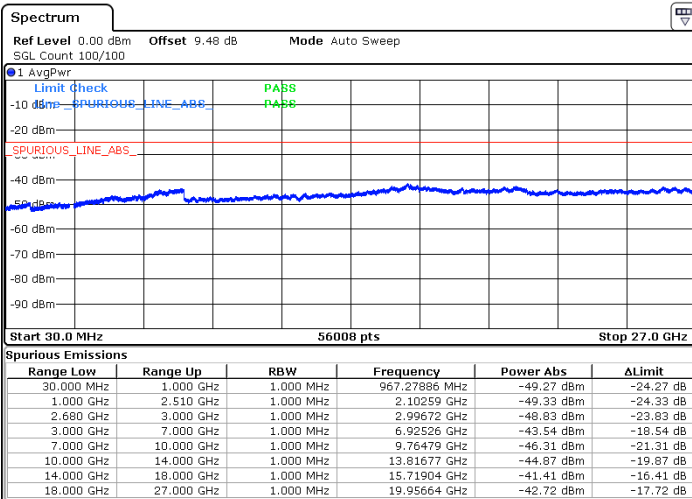
Middle Channel / 64QAM



Date: 6.JAN 2020 06:42:11

Date: 6.JAN 2020 06:46:32

Highest Channel / 64QAM



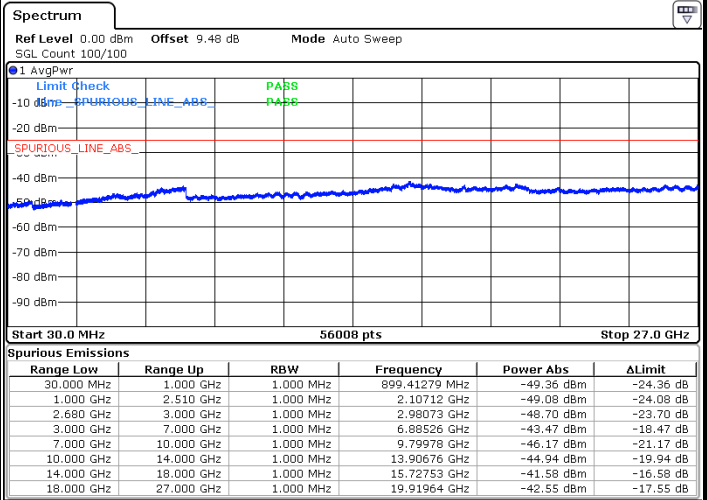
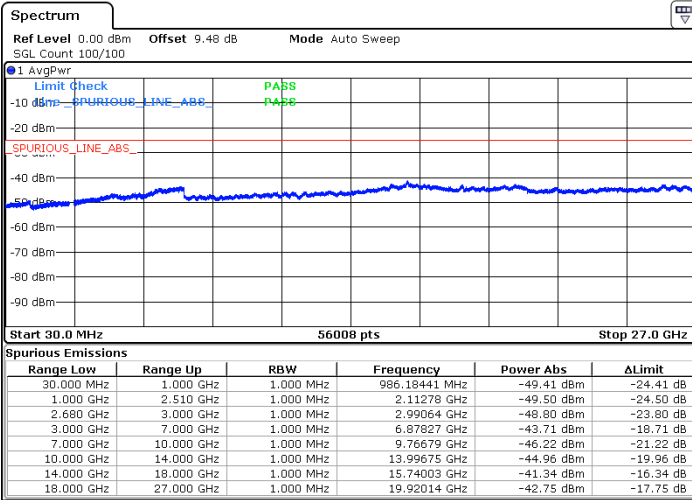
Date: 6.JAN 2020 06:41:15



LTE Band 41 / 20MHz

Lowest Channel / 64QAM

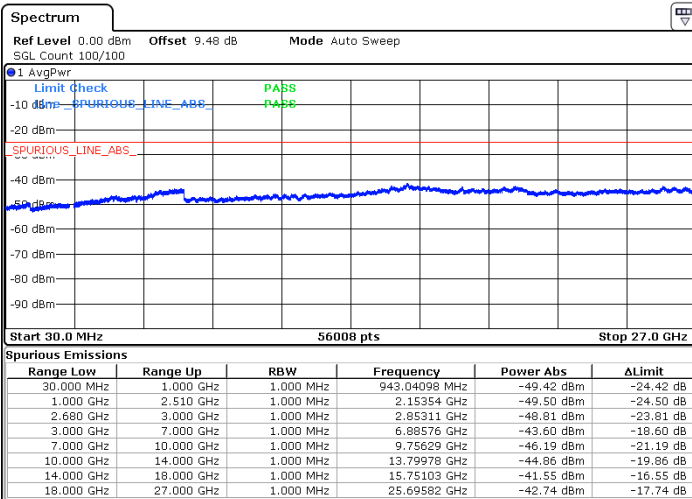
Middle Channel / 64QAM



Date: 6.JAN 2020 06:55:56

Date: 6.JAN 2020 06:49:41

Highest Channel / 64QAM



Date: 6.JAN 2020 06:54:56



Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0034	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0041	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 41 / 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	5172	-55.54	-25	-30.54	-65.75	3.03	13.24	H
	7760	-50.02	-25	-25.02	-59.47	3.56	13.01	H
	10340	-57.27	-25	-32.27	-66.79	3.92	13.44	H
	12930.45	-57.00	-25	-32.00	-66.92	4.44	14.36	H
	15516.54	-59.33	-25	-34.33	-69.70	4.77	15.14	H
	5172	-61.48	-25	-36.48	-71.69	3.03	13.24	V
	7756	-43.77	-25	-18.77	-53.22	3.56	13.01	V
	10344.36	-57.45	-25	-32.45	-66.97	3.92	13.44	V
	12930.45	-56.70	-25	-31.70	-66.62	4.44	14.36	V
	15520	-57.62	-25	-32.62	-67.99	4.77	15.14	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 FG9D1003-01B which is issued separately.