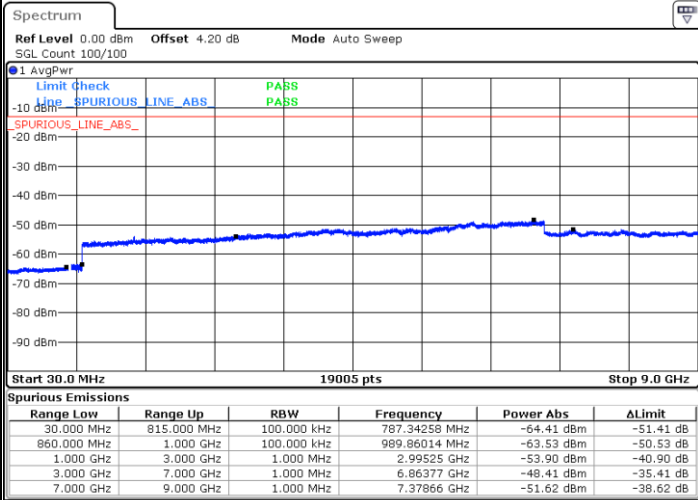




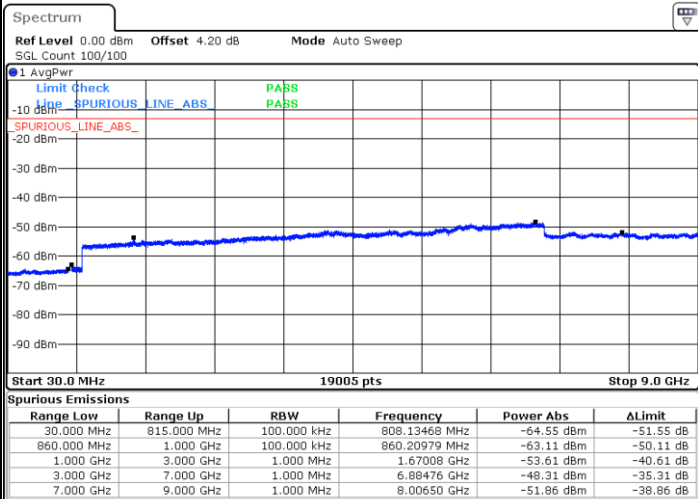
LTE Band 5 / 3MHz

Lowest Channel / QPSK



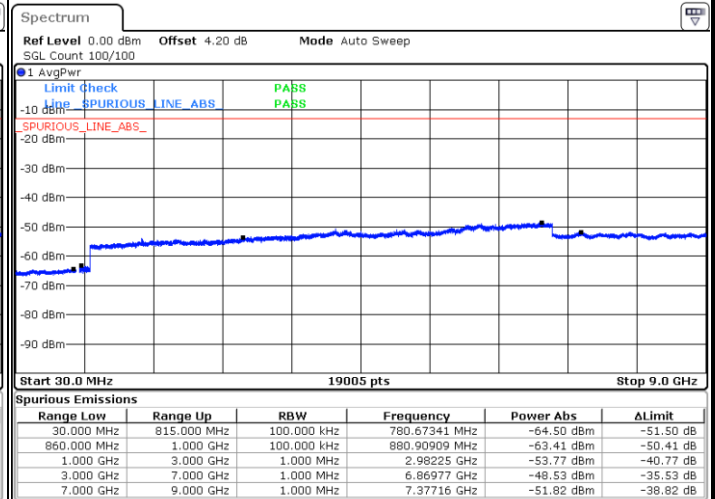
Date: 16.DEC.2020 01:19:10

Middle Channel / QPSK



Date: 16.DEC.2020 01:19:34

Highest Channel / QPSK

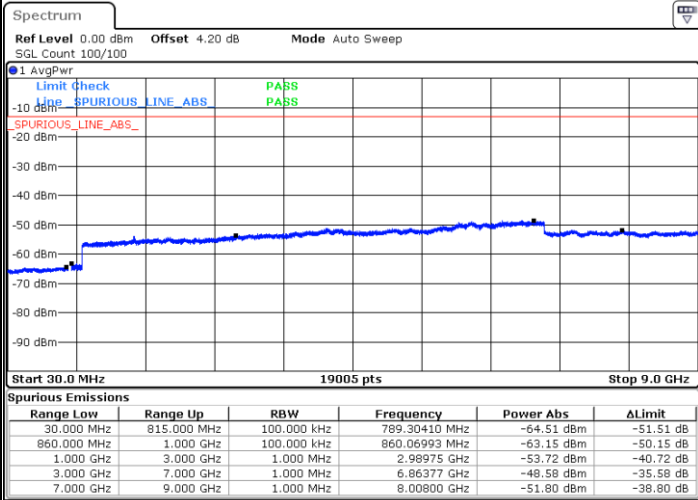


Date: 16.DEC.2020 01:20:16



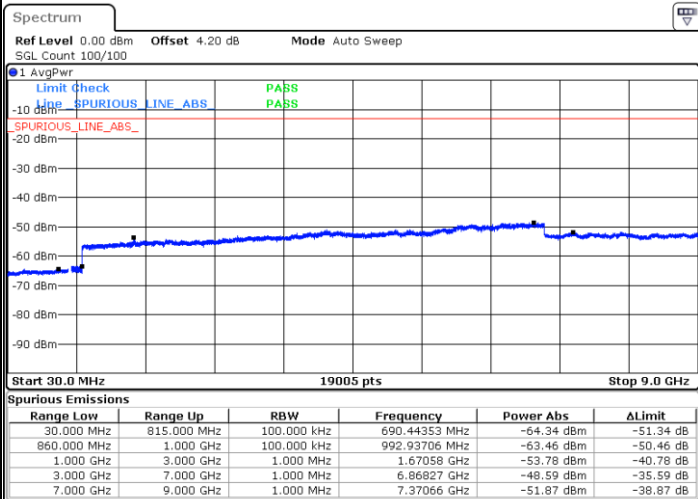
LTE Band 5 / 5MHz

Lowest Channel / QPSK



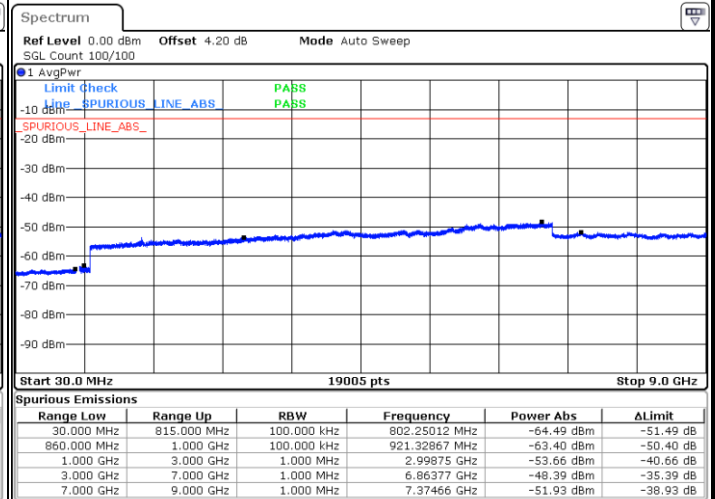
Date: 16.DEC.2020 01:17:30

Middle Channel / QPSK



Date: 16.DEC.2020 01:18:09

Highest Channel / QPSK

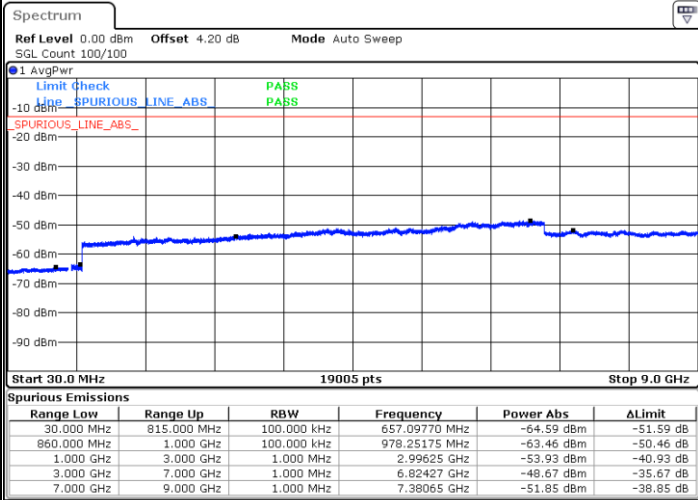


Date: 16.DEC.2020 01:18:40



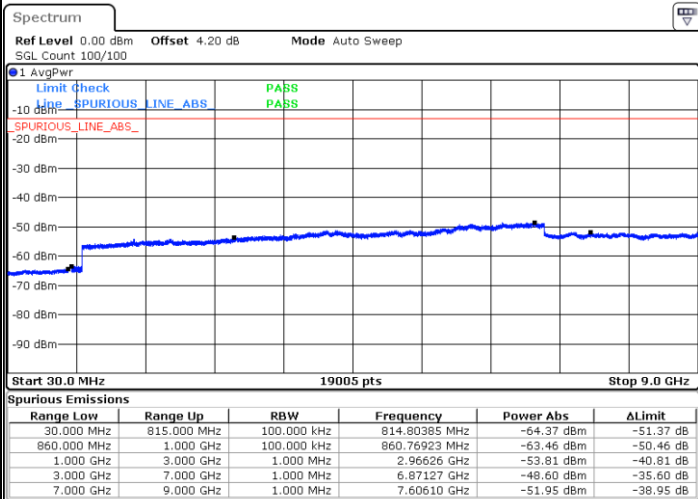
LTE Band 5 / 10MHz

Lowest Channel / QPSK



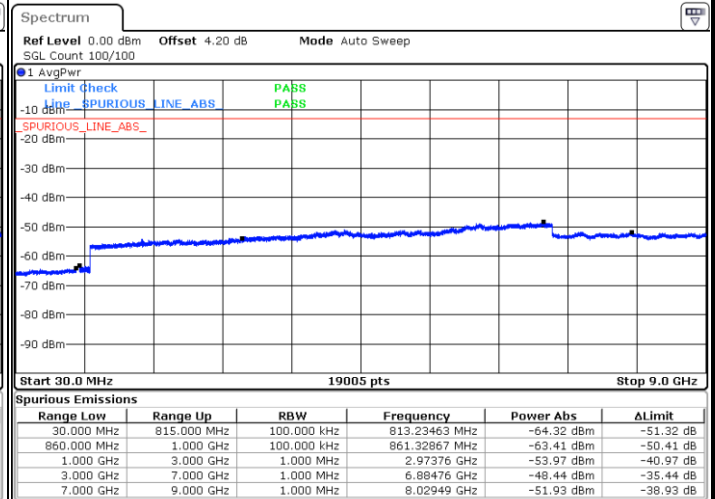
Date: 16.DEC.2020 01:16:58

Middle Channel / QPSK



Date: 16.DEC.2020 01:15:56

Highest Channel / QPSK



Date: 16.DEC.2020 01:15:06



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	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

Note:

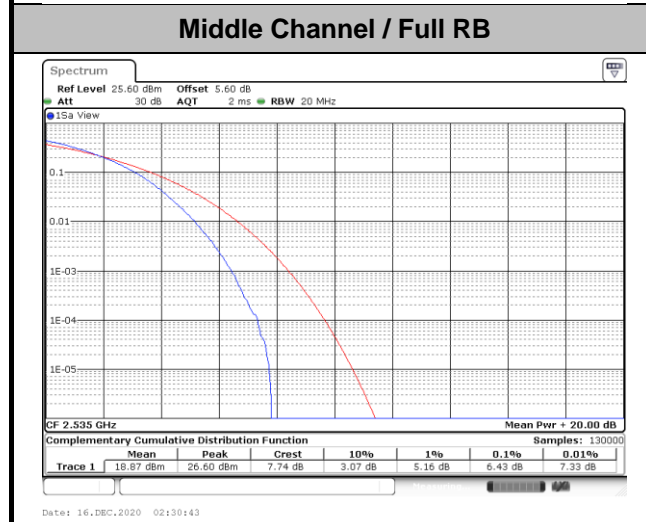
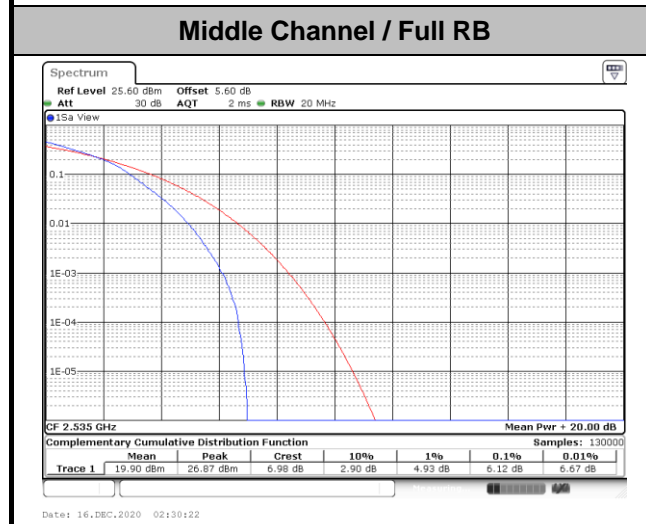
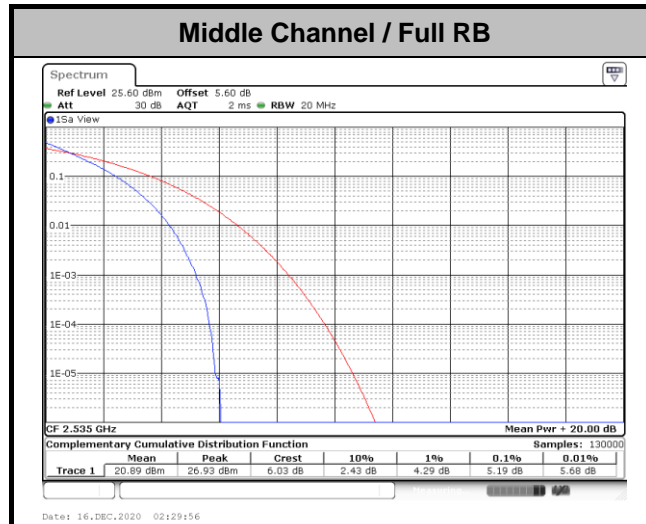
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

Peak-to-Average Ratio

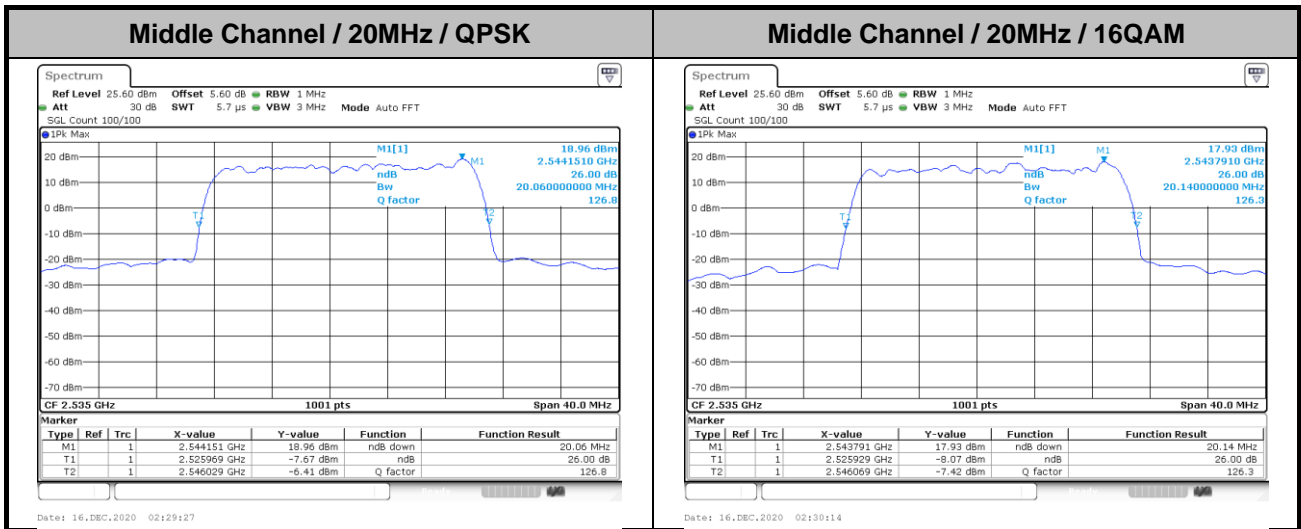
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size		Full RB		Full RB	Result
Lowest CH					PASS
Middle CH		5.19		6.12	
Highest CH					
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size		Full RB			Result
Lowest CH			-	-	PASS
Middle CH		6.43	-	-	
Highest CH			-	-	





26dB Bandwidth

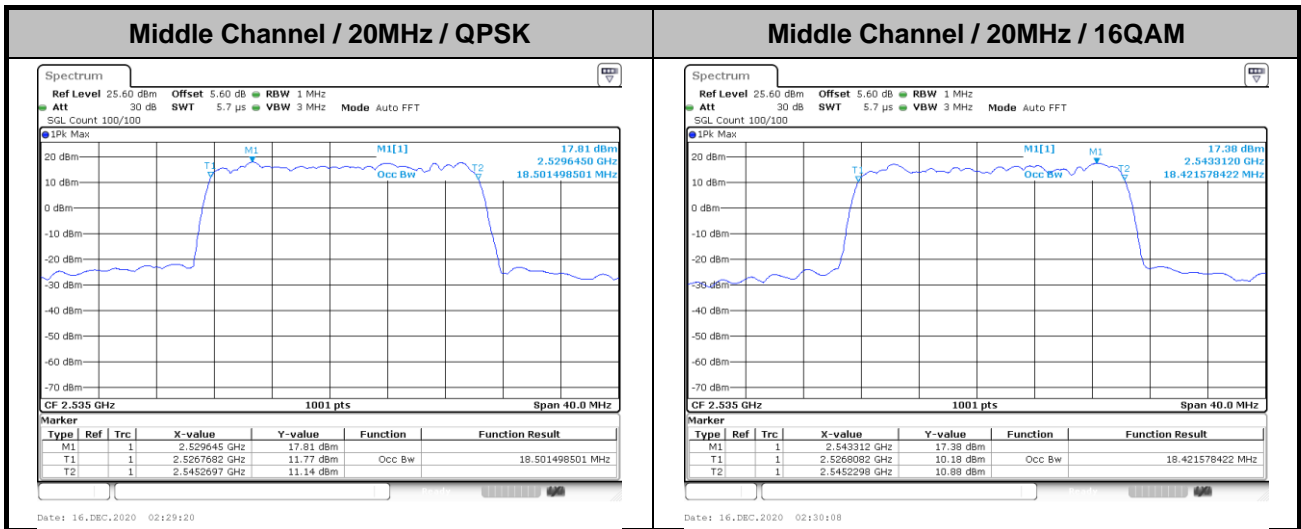
Mode	LTE Band 7 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.06	20.14





Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.50	18.42

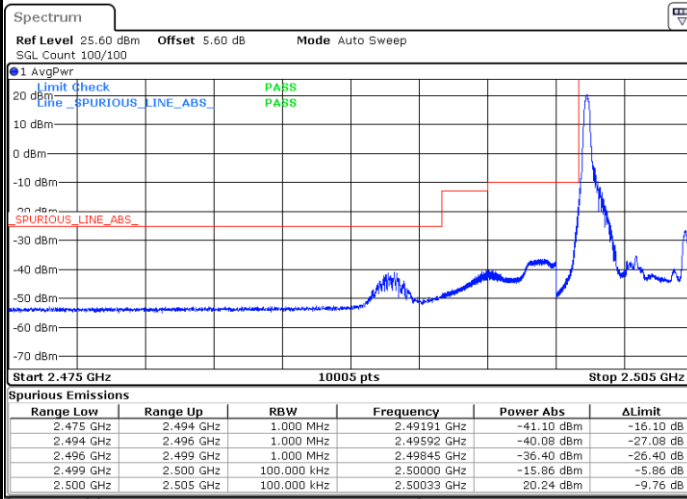




Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



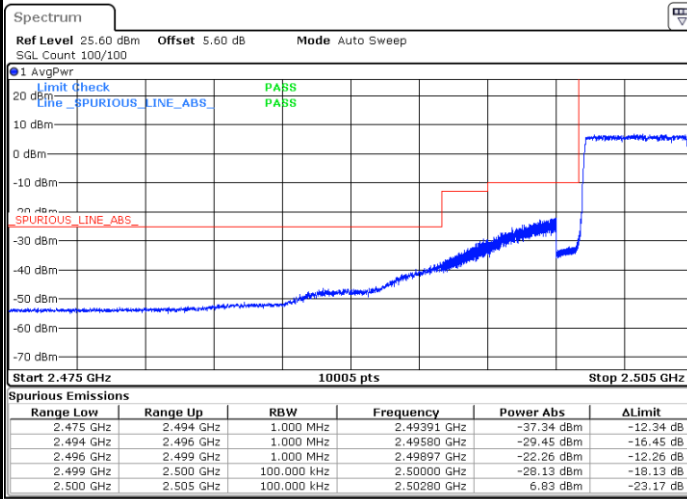
Date: 16.DEC.2020 01:32:44

Highest Band Edge / 1 RB



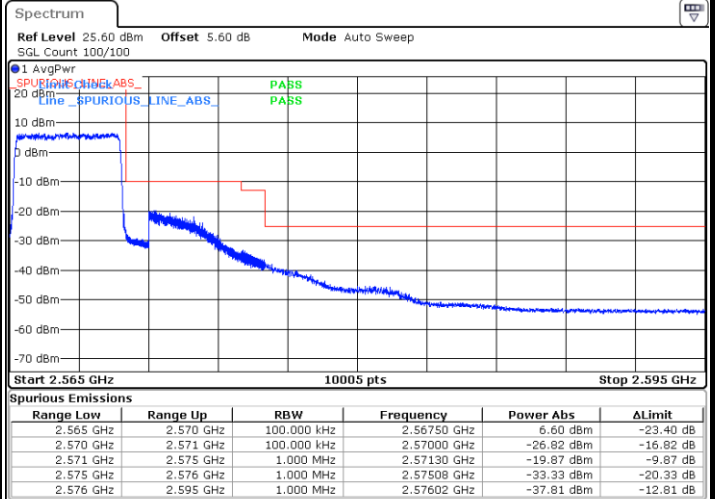
Date: 16.DEC.2020 01:40:41

Lowest Band Edge / Full RB



Date: 16.DEC.2020 01:36:09

Highest Band Edge / Full RB



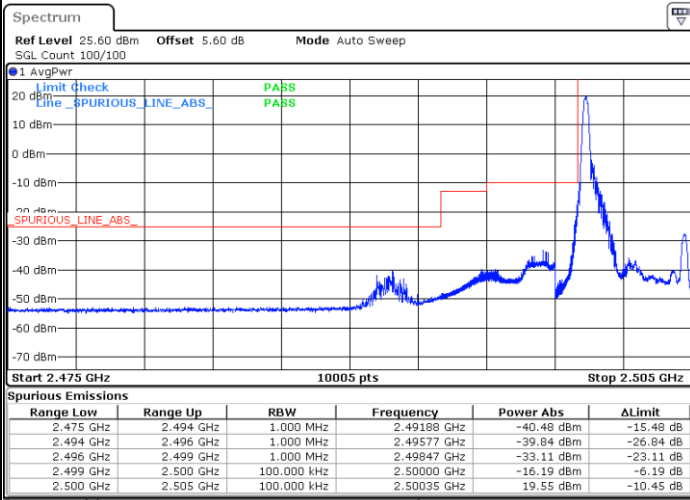
Date: 16.DEC.2020 01:37:17



LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



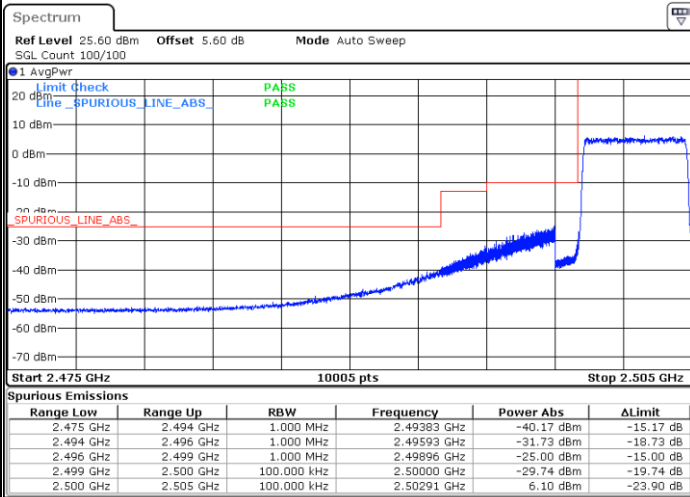
Date: 16.DEC.2020 01:33:52



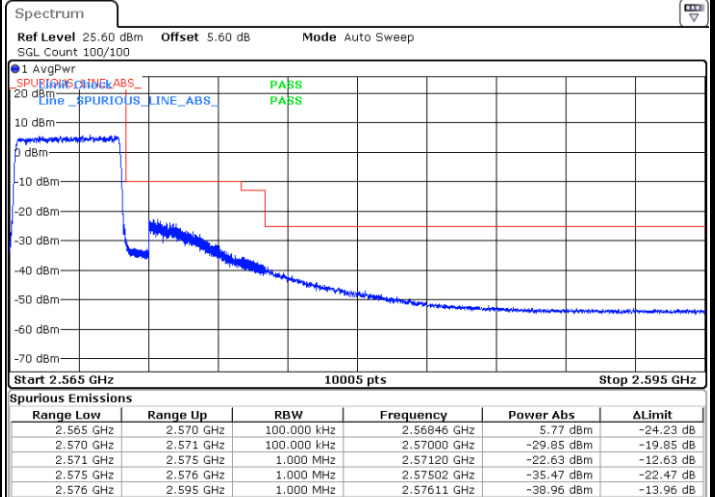
Date: 16.DEC.2020 01:39:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.DEC.2020 01:35:01

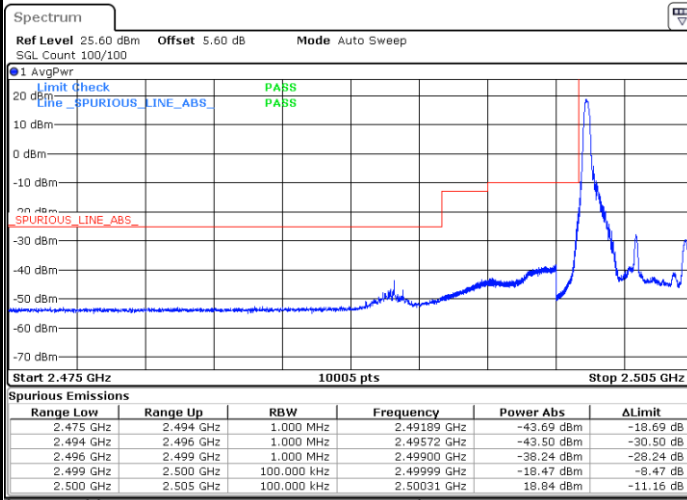


Date: 16.DEC.2020 01:38:25



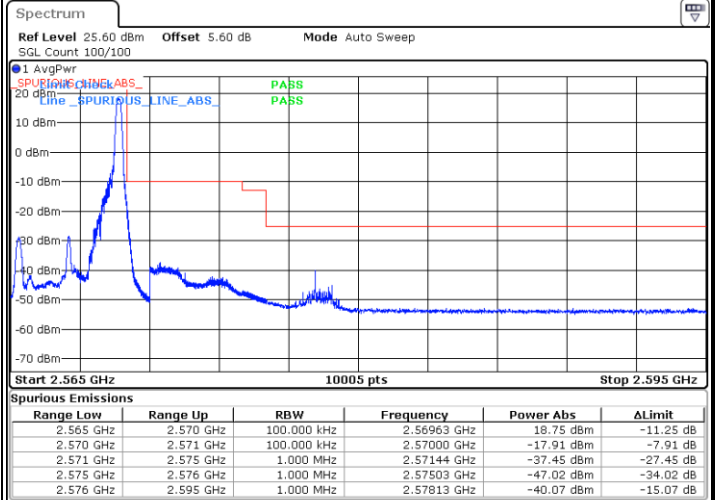
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



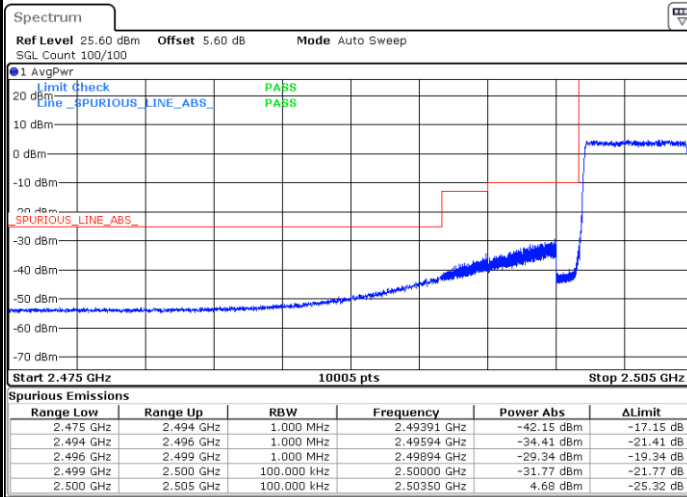
Date: 16.DEC.2020 02:09:04

Highest Band Edge / 1 RB



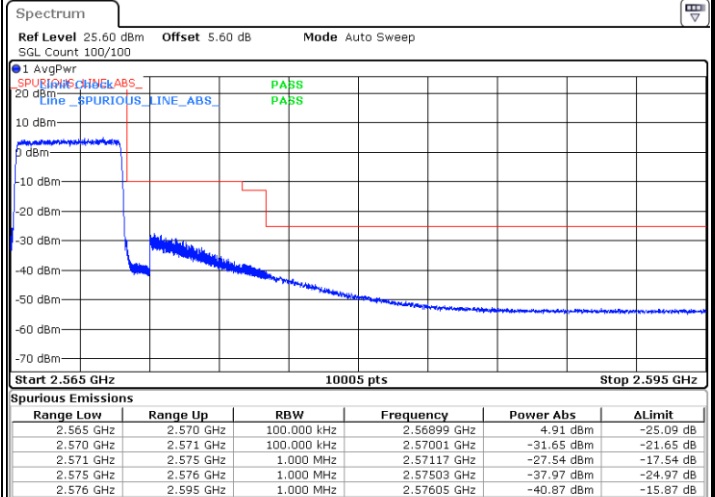
Date: 16.DEC.2020 02:11:21

Lowest Band Edge / Full RB



Date: 16.DEC.2020 02:10:13

Highest Band Edge / Full RB



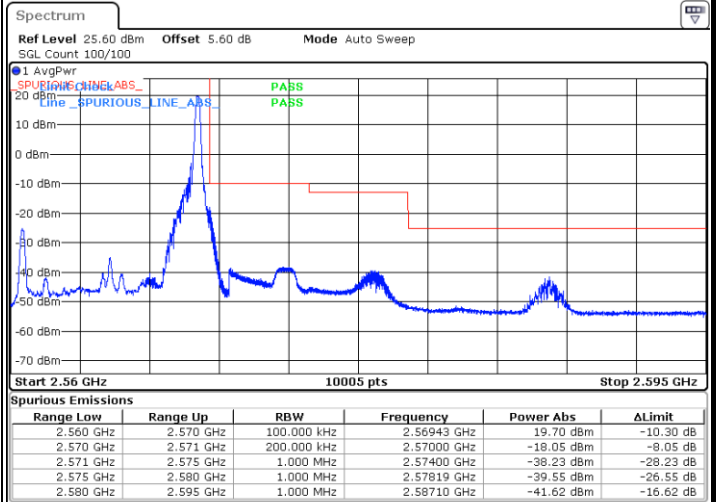
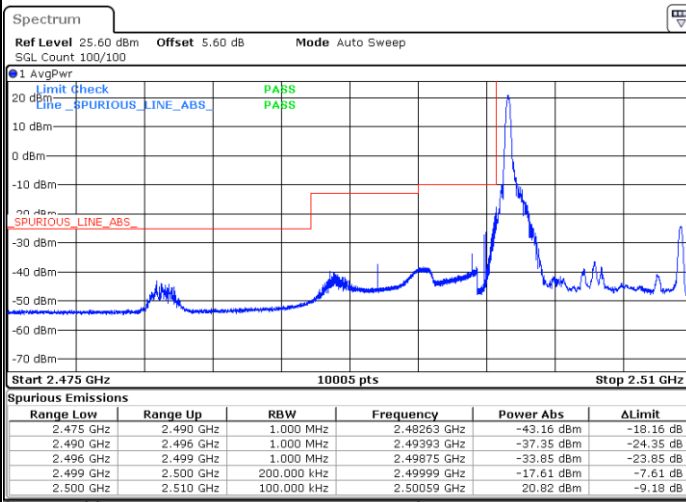
Date: 16.DEC.2020 02:12:29



LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

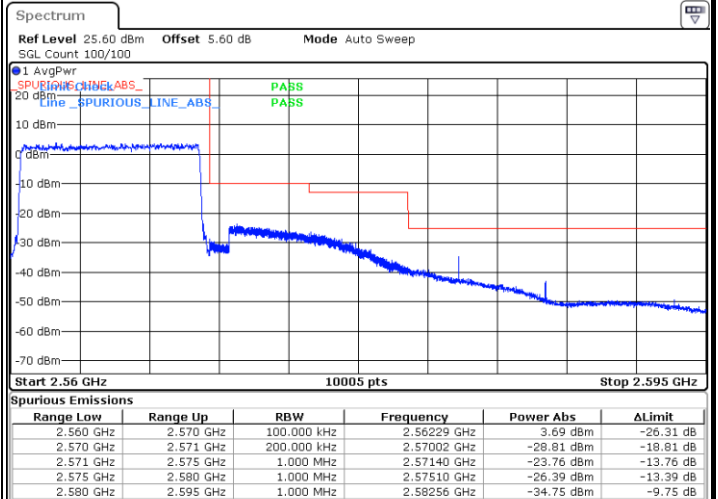
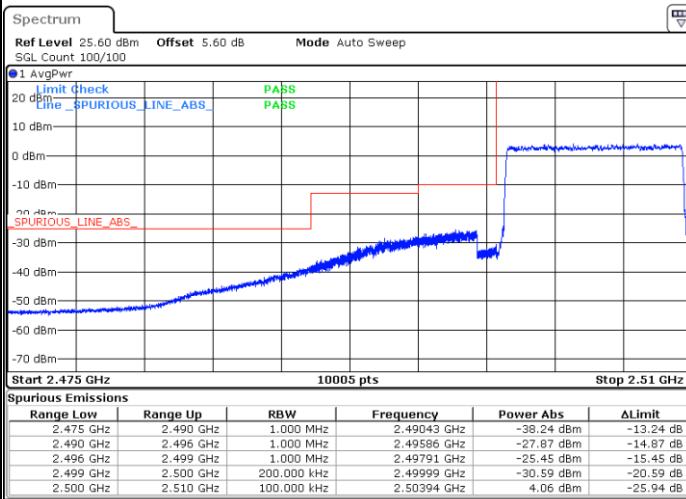


Date: 16.DEC.2020 01:41:49

Date: 16.DEC.2020 01:49:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.DEC.2020 01:45:13

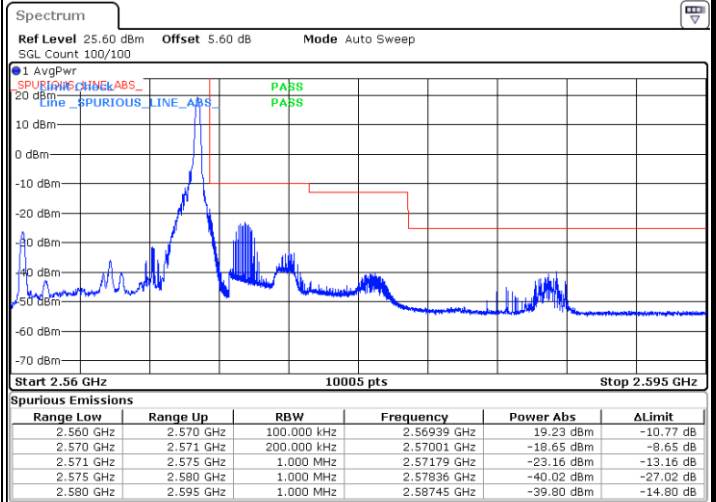
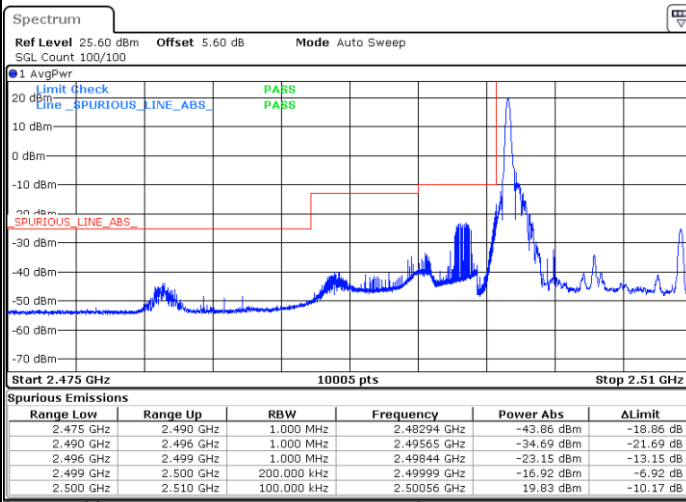
Date: 16.DEC.2020 01:46:21



LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

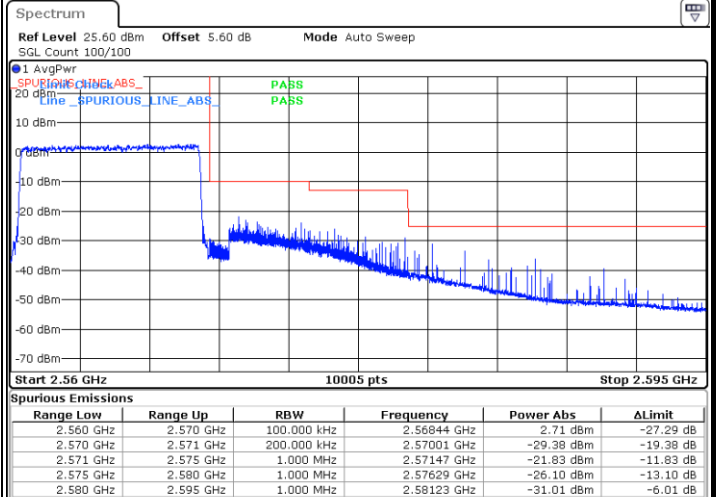
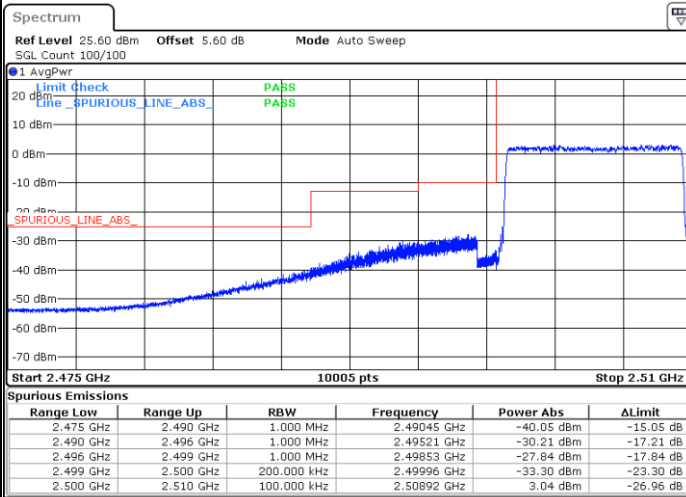


Date: 16.DEC.2020 01:42:57

Date: 16.DEC.2020 01:48:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.DEC.2020 01:44:05

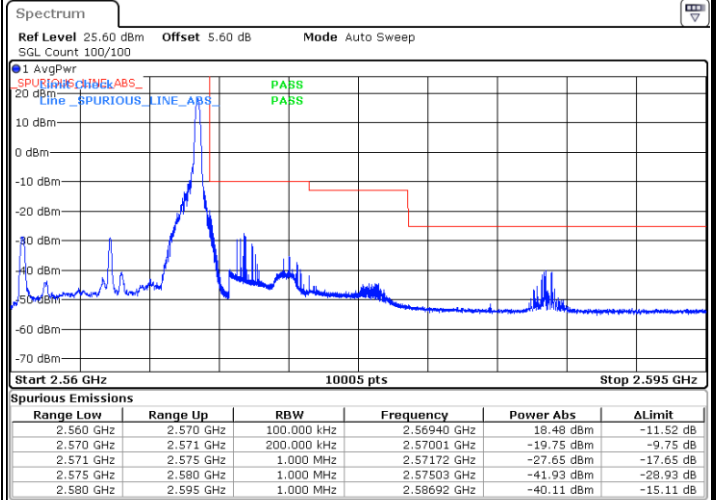
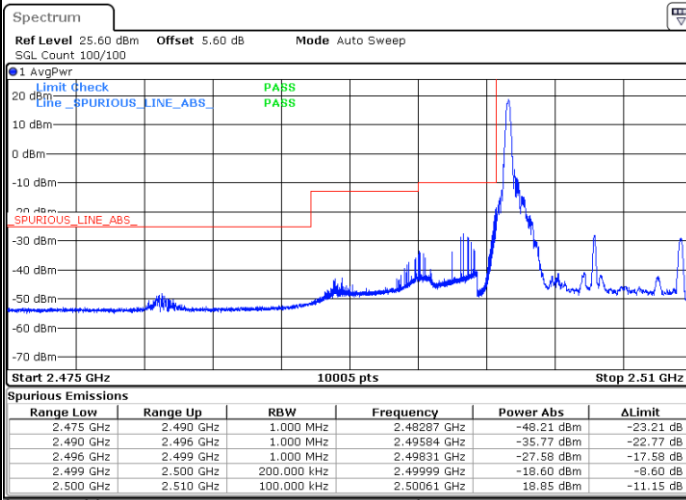
Date: 16.DEC.2020 01:47:29



LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

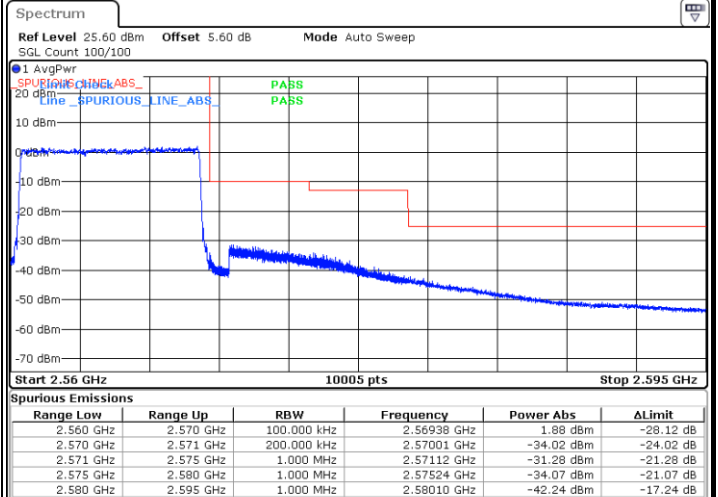
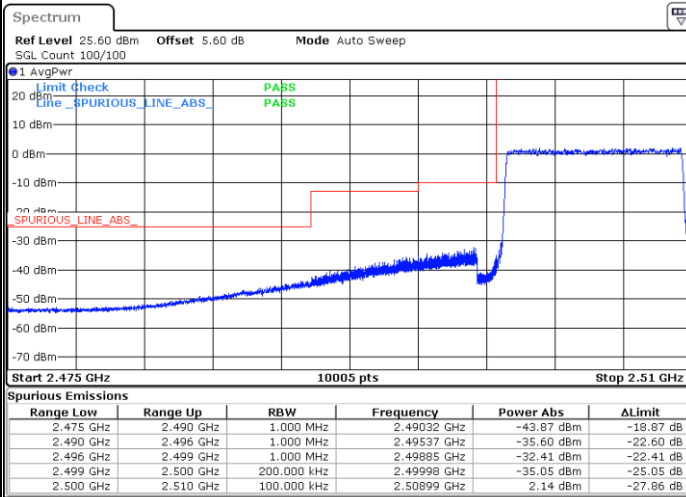


Date: 16.DEC.2020 02:13:37

Date: 16.DEC.2020 02:15:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.DEC.2020 02:14:45

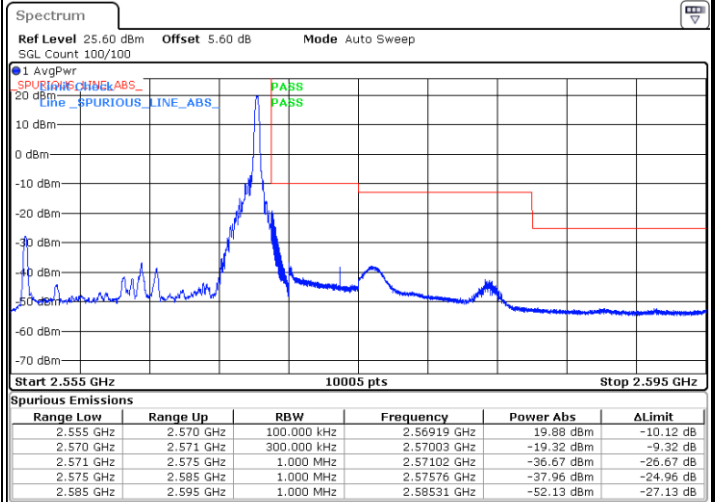
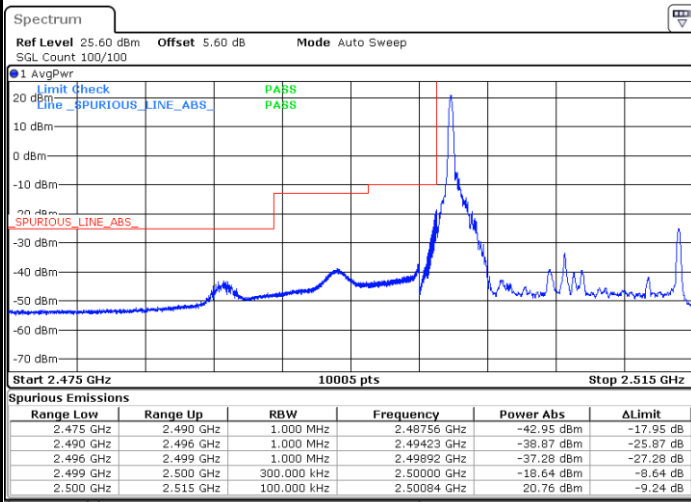
Date: 16.DEC.2020 02:17:01



LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

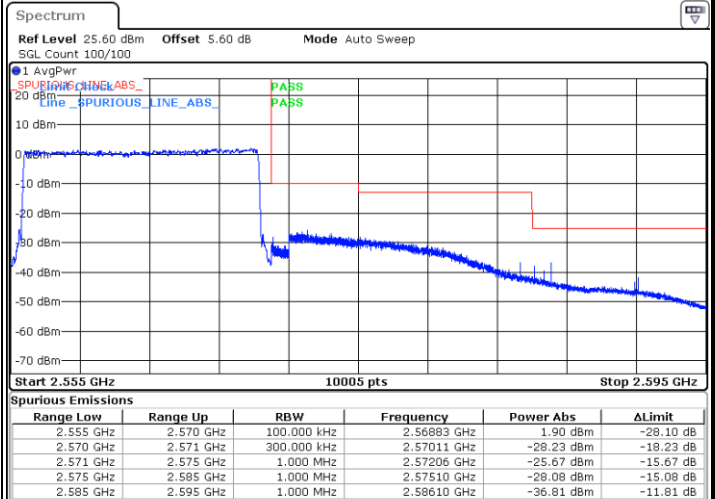
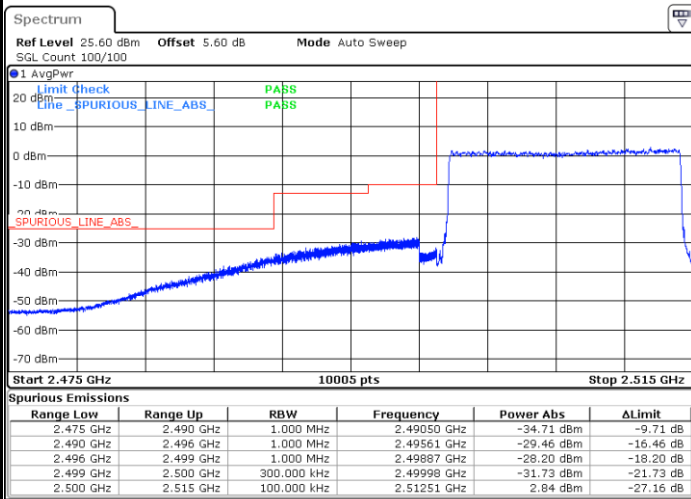


Date: 16.DEC.2020 01:50:54

Date: 16.DEC.2020 01:58:51

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



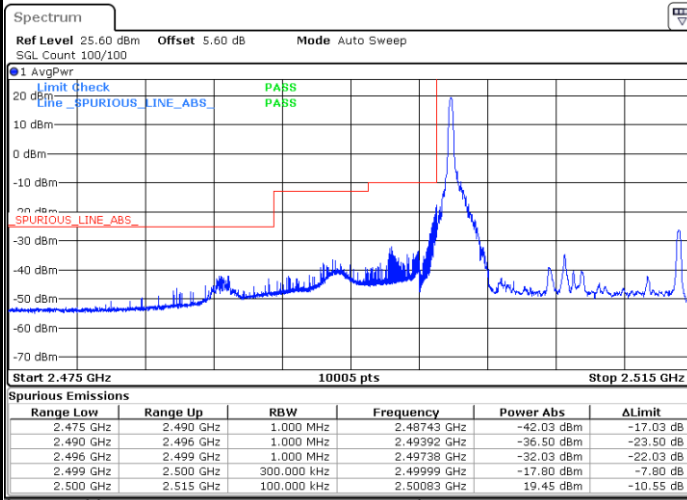
Date: 16.DEC.2020 01:54:19

Date: 16.DEC.2020 01:55:27



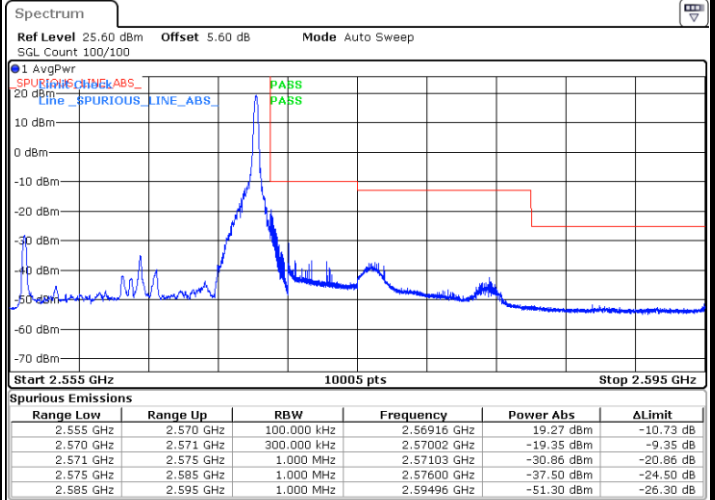
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



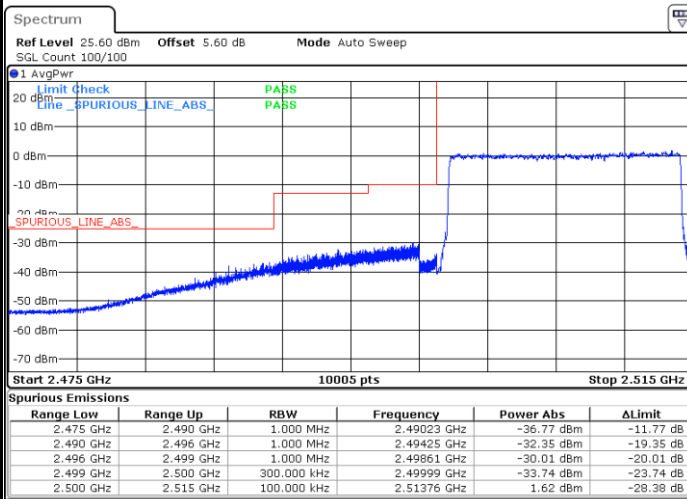
Date: 16.DEC.2020 01:52:02

Highest Band Edge / 1 RB



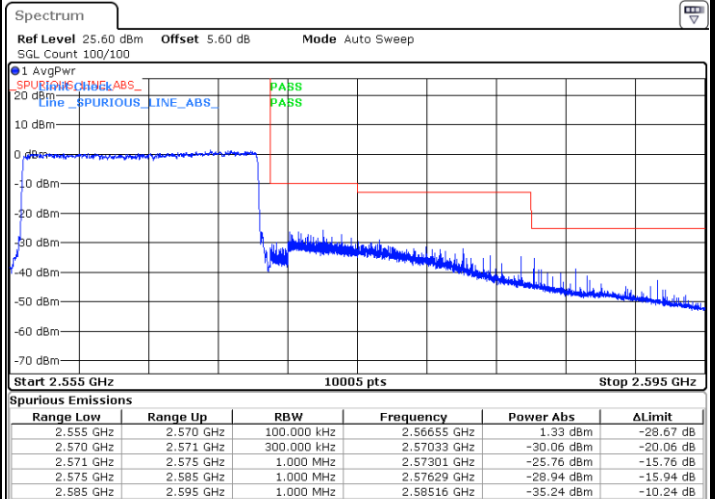
Date: 16.DEC.2020 01:57:43

Lowest Band Edge / Full RB



Date: 16.DEC.2020 01:53:10

Highest Band Edge / Full RB

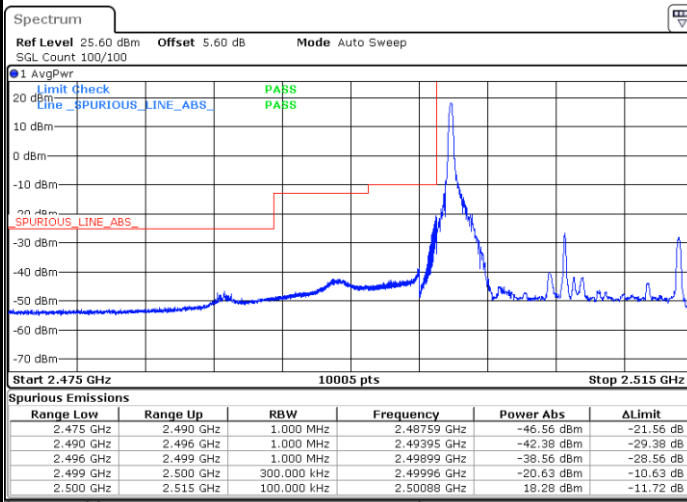


Date: 16.DEC.2020 01:56:35



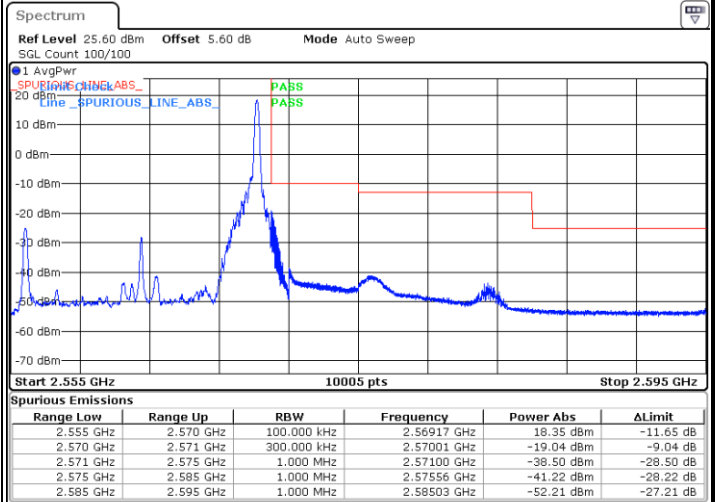
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



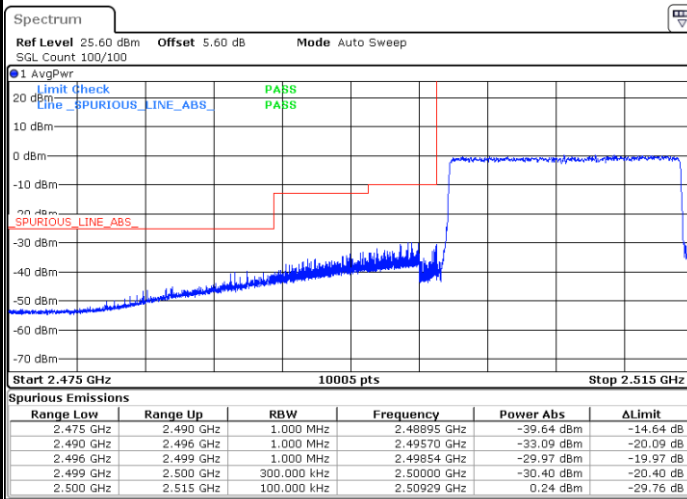
Date: 16.DEC.2020 02:19:17

Highest Band Edge / 1 RB



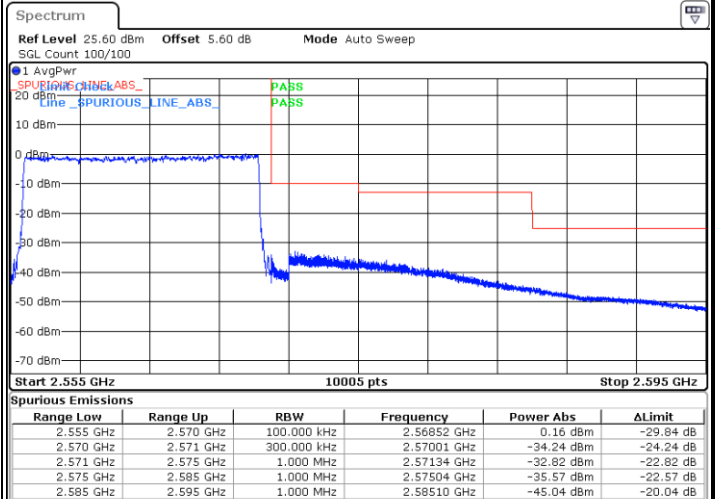
Date: 16.DEC.2020 02:21:33

Lowest Band Edge / Full RB



Date: 16.DEC.2020 02:18:09

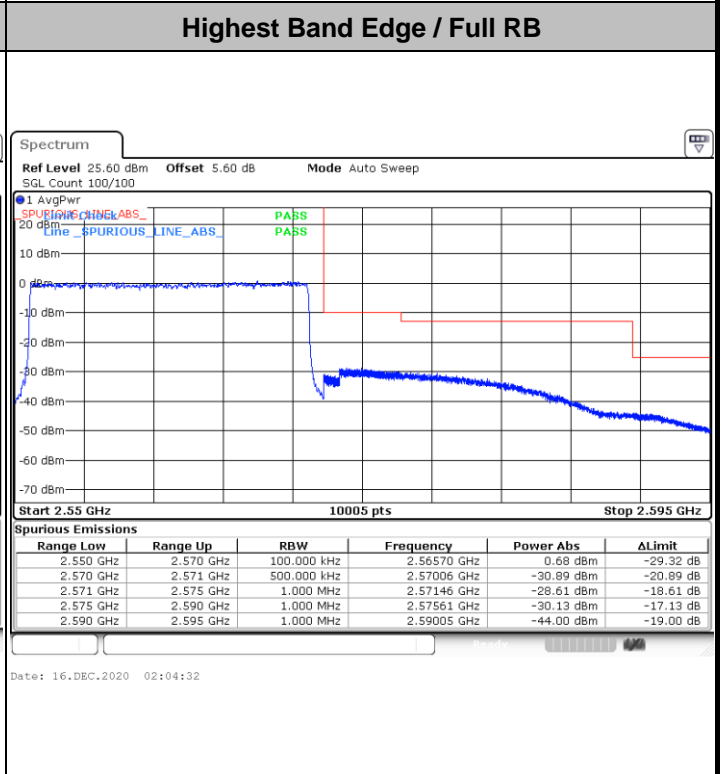
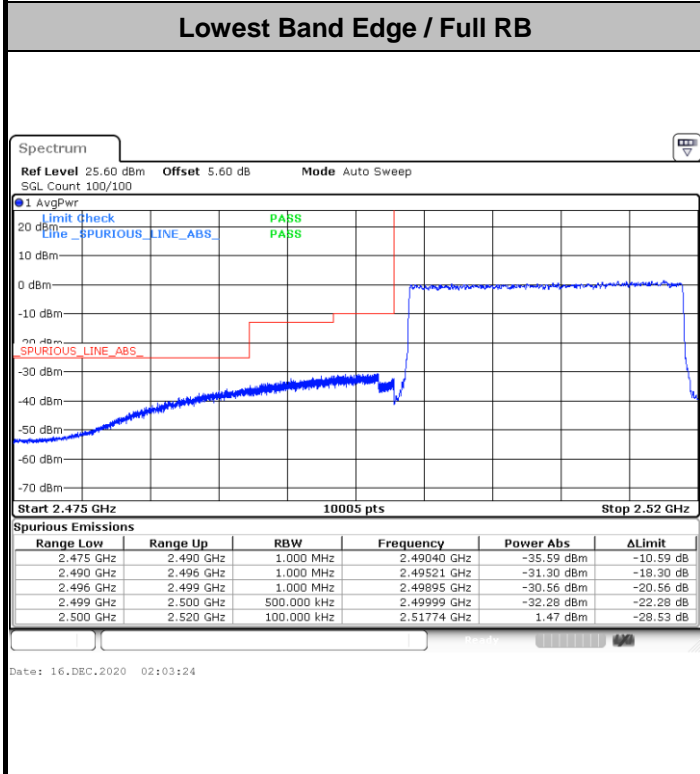
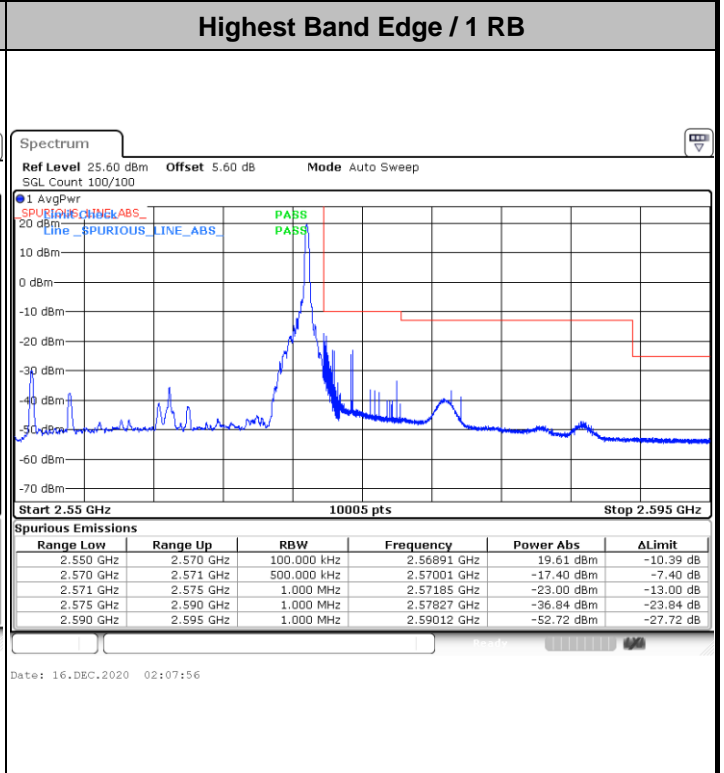
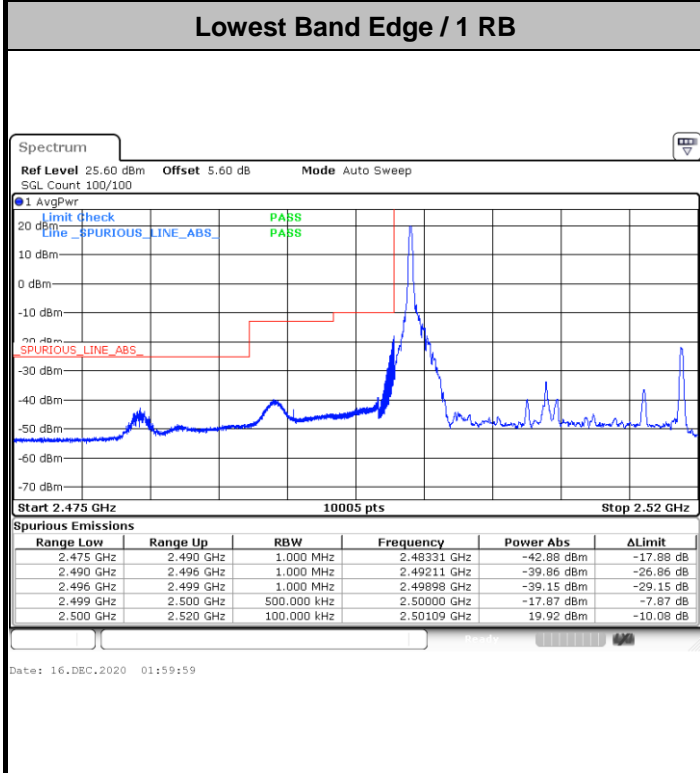
Highest Band Edge / Full RB



Date: 16.DEC.2020 02:20:25



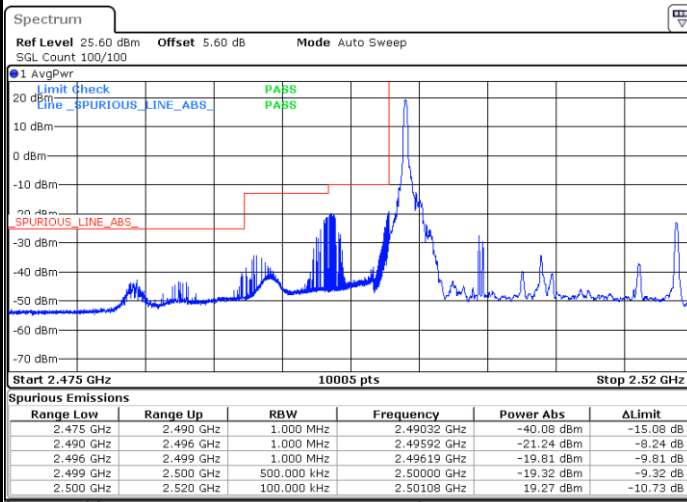
LTE Band 7 / 20MHz / QPSK





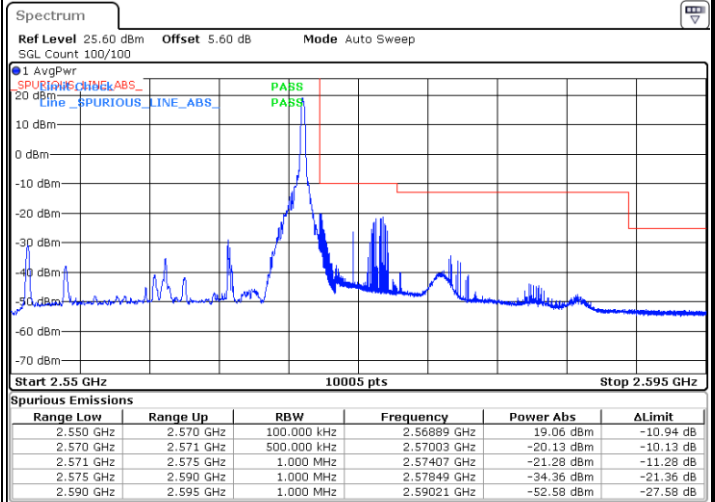
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



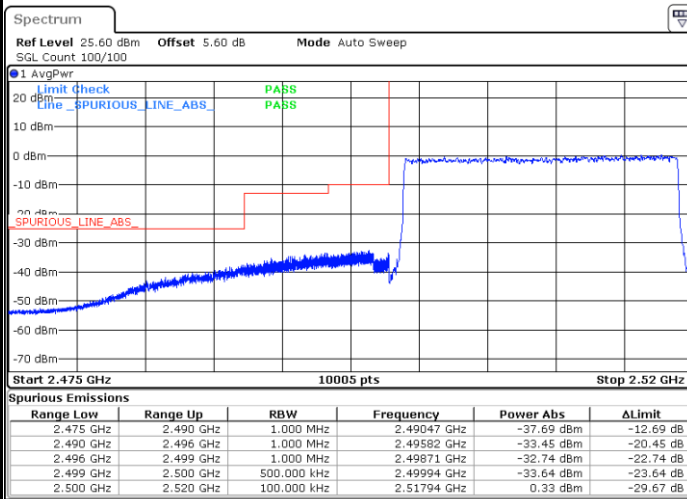
Date: 16.DEC.2020 02:01:07

Highest Band Edge / 1RB



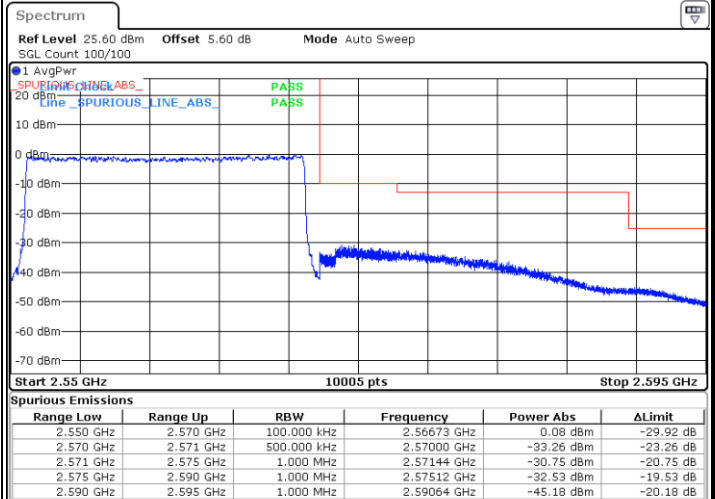
Date: 16.DEC.2020 02:06:48

Lowest Band Edge / Full RB



Date: 16.DEC.2020 02:02:16

Highest Band Edge / Full RB



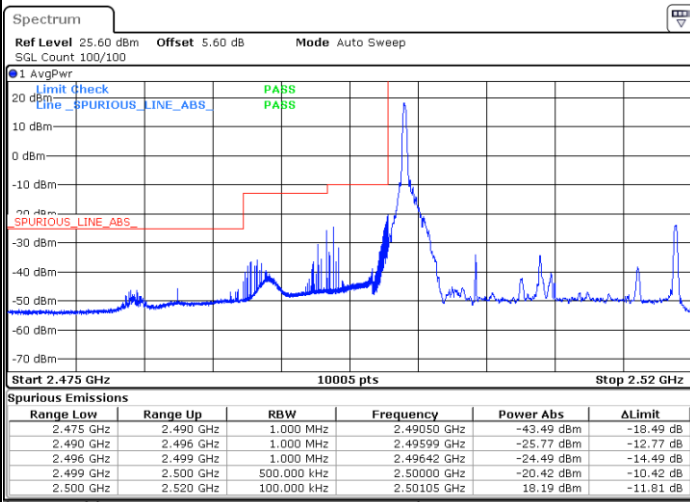
Date: 16.DEC.2020 02:05:40



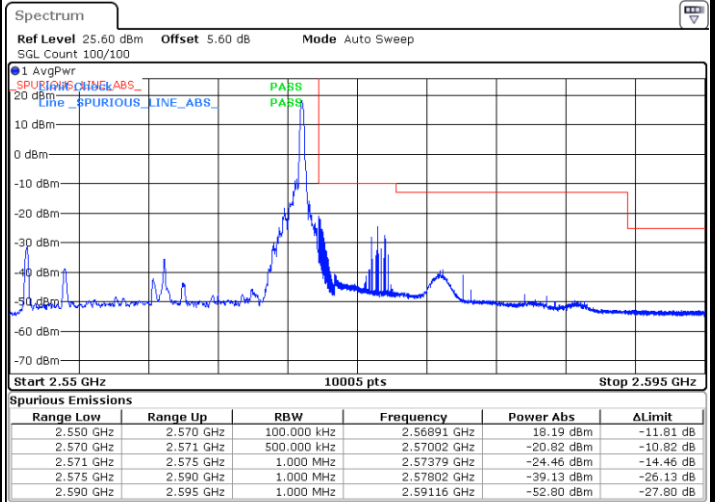
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB



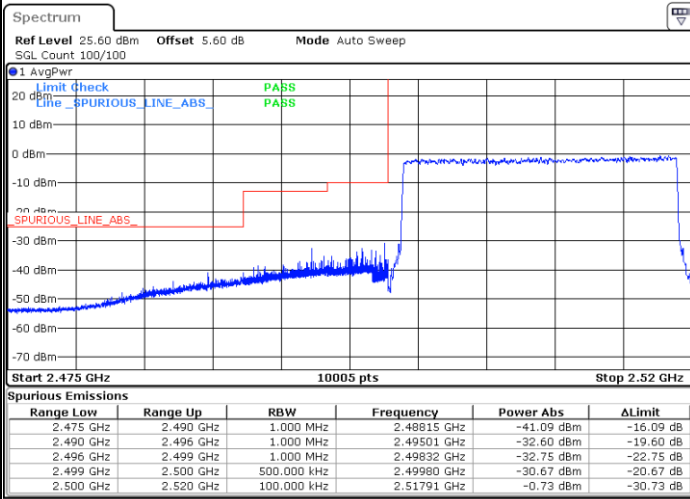
Date: 16.DEC.2020 02:23:50



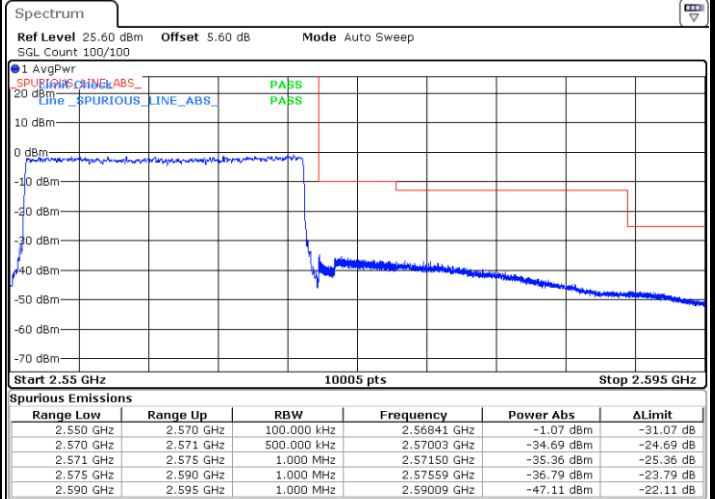
Date: 16.DEC.2020 02:26:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



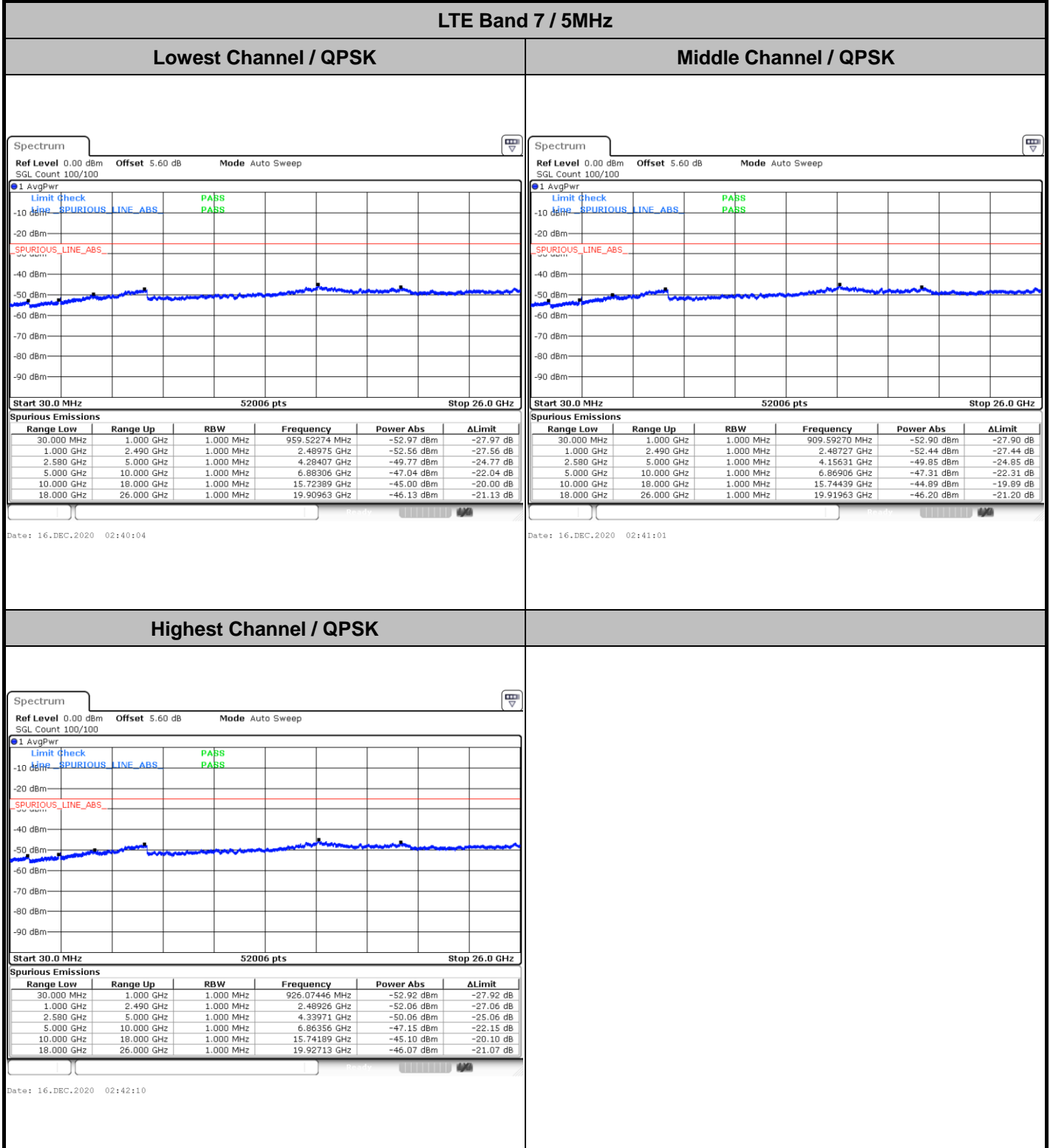
Date: 16.DEC.2020 02:22:42

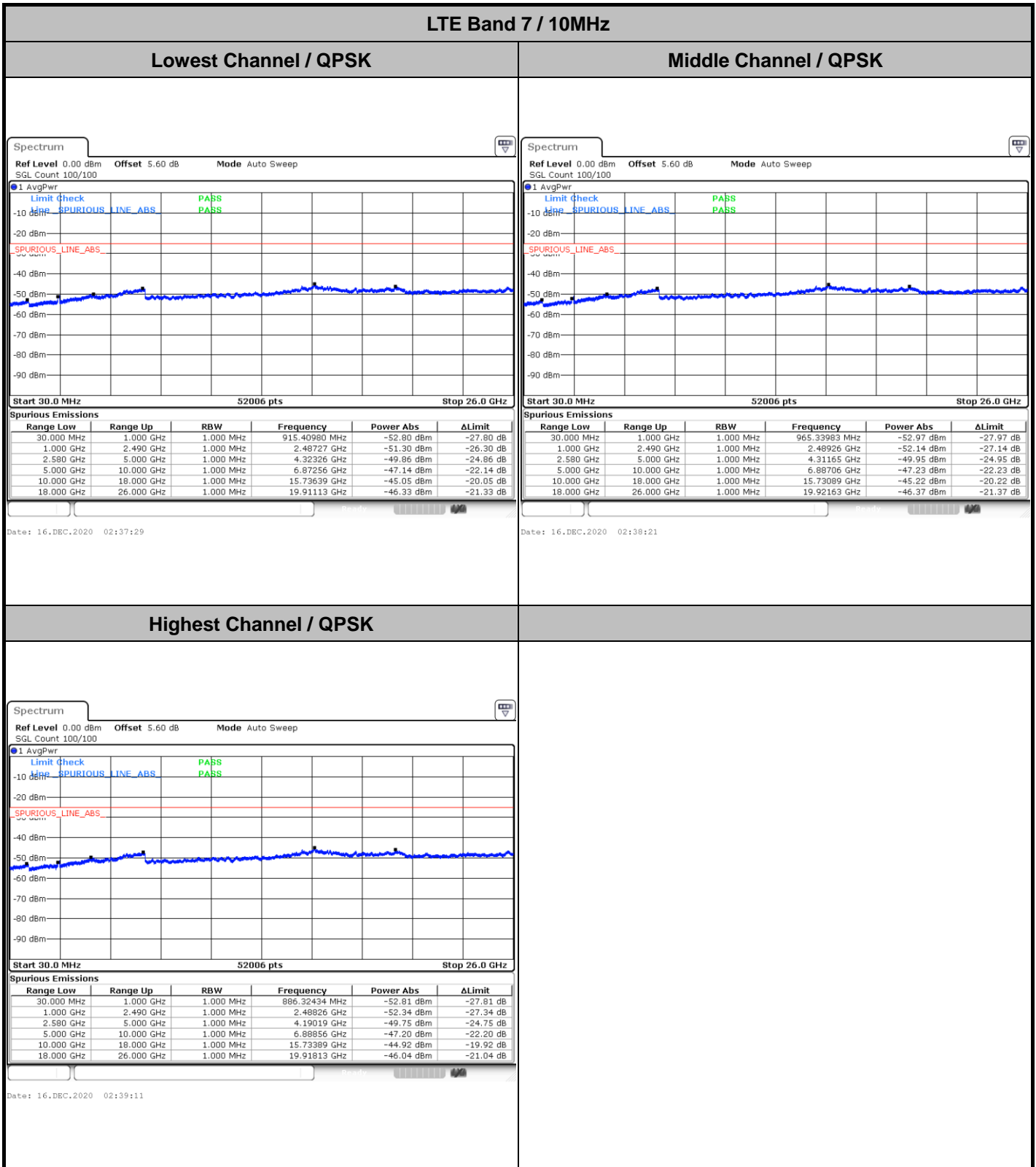


Date: 16.DEC.2020 02:24:58



Conducted Spurious Emission



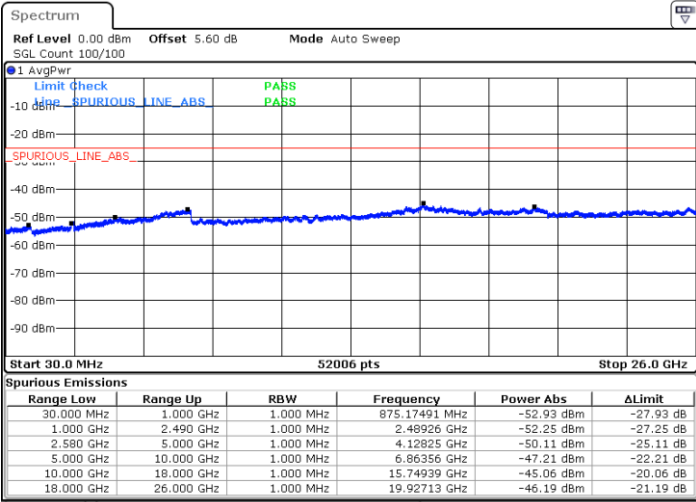




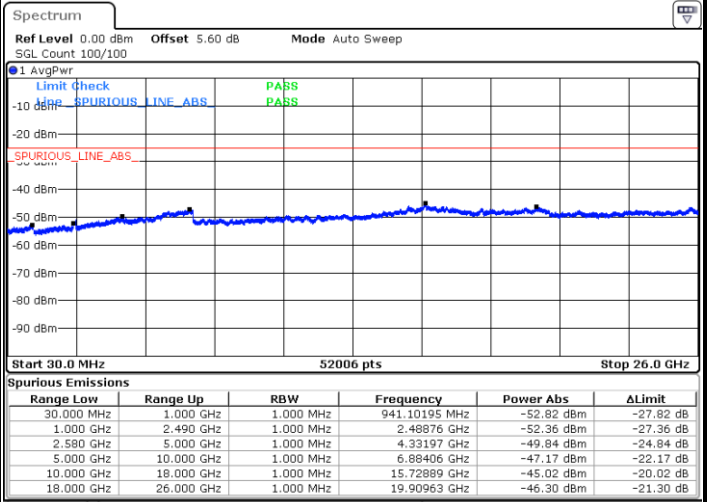
LTE Band 7 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

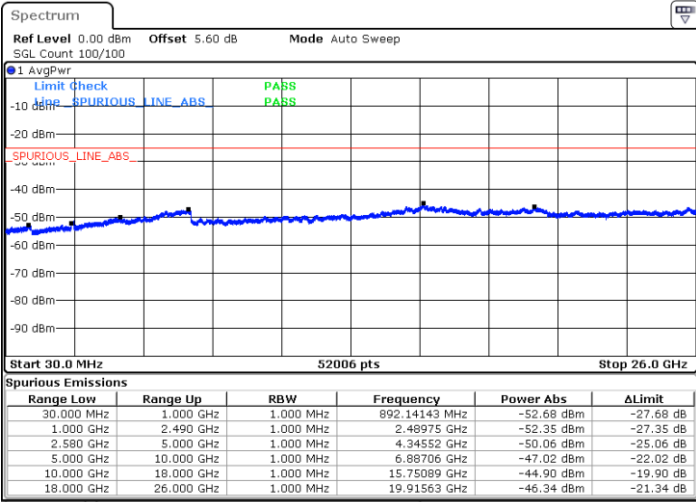


Date: 16.DEC.2020 02:34:11



Date: 16.DEC.2020 02:35:07

Highest Channel / QPSK



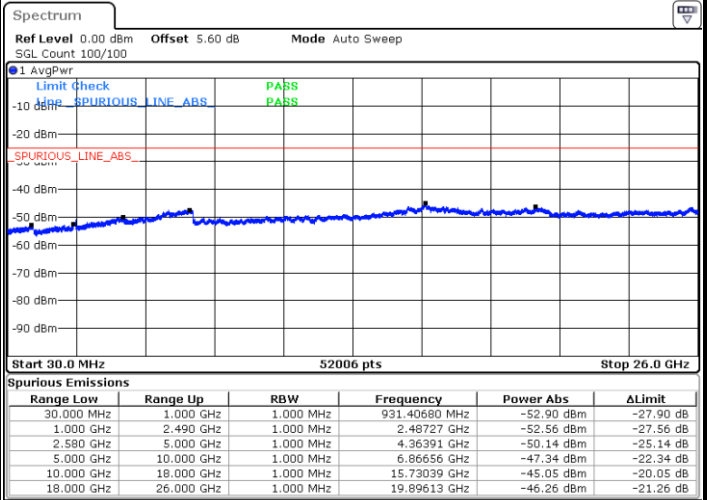
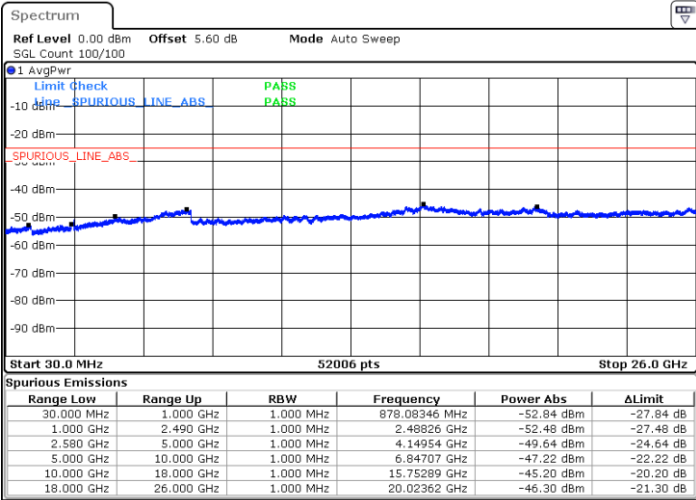
Date: 16.DEC.2020 02:36:19



LTE Band 7 / 20MHz

Lowest Channel / QPSK

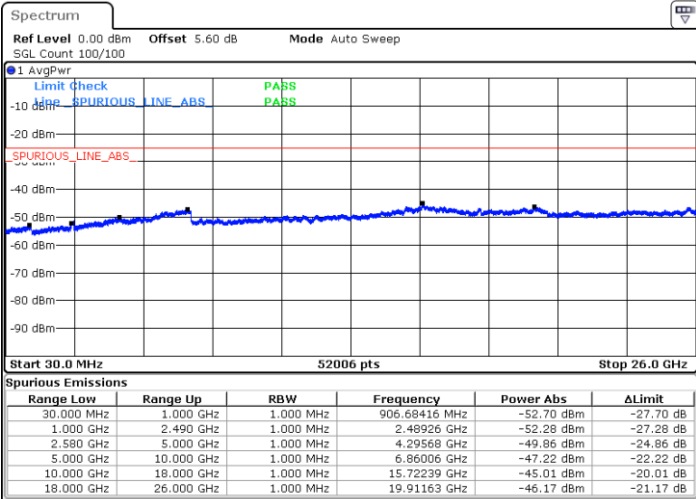
Middle Channel / QPSK



Date: 16.DEC.2020 02:31:42

Date: 16.DEC.2020 02:32:29

Highest Channel / QPSK



Date: 16.DEC.2020 02:33:19



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0027	

Note:

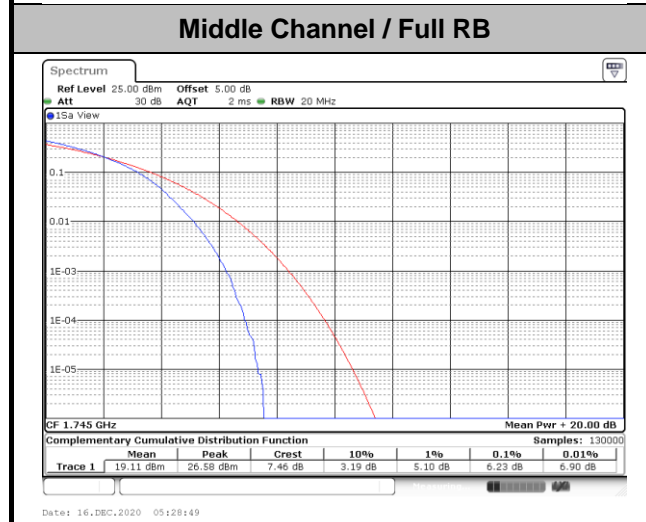
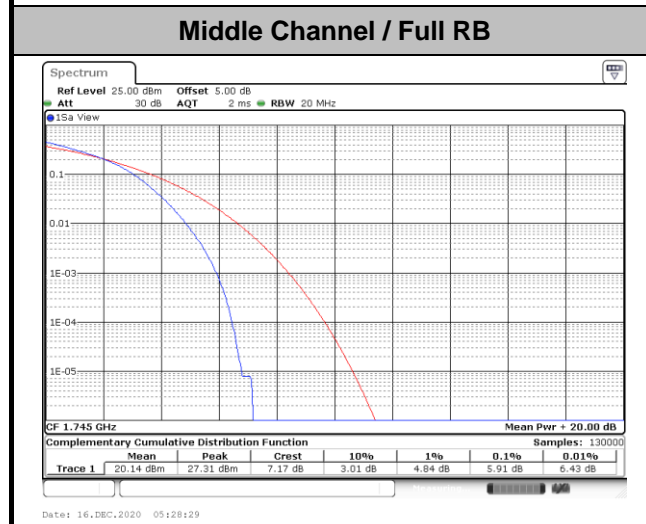
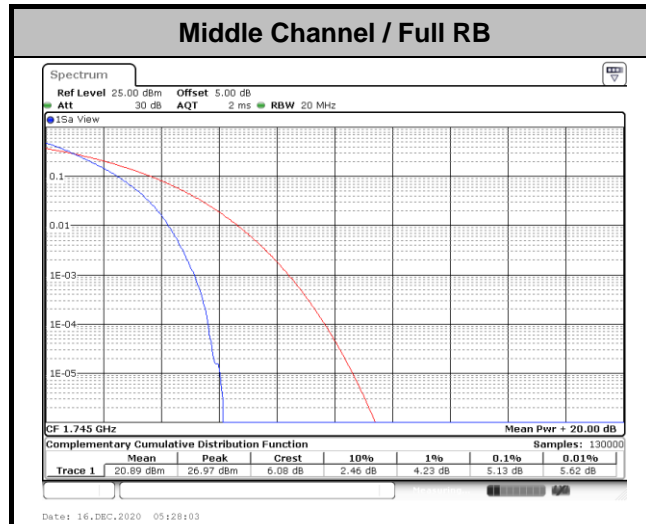
- 3. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.4V.
- 4. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

Peak-to-Average Ratio

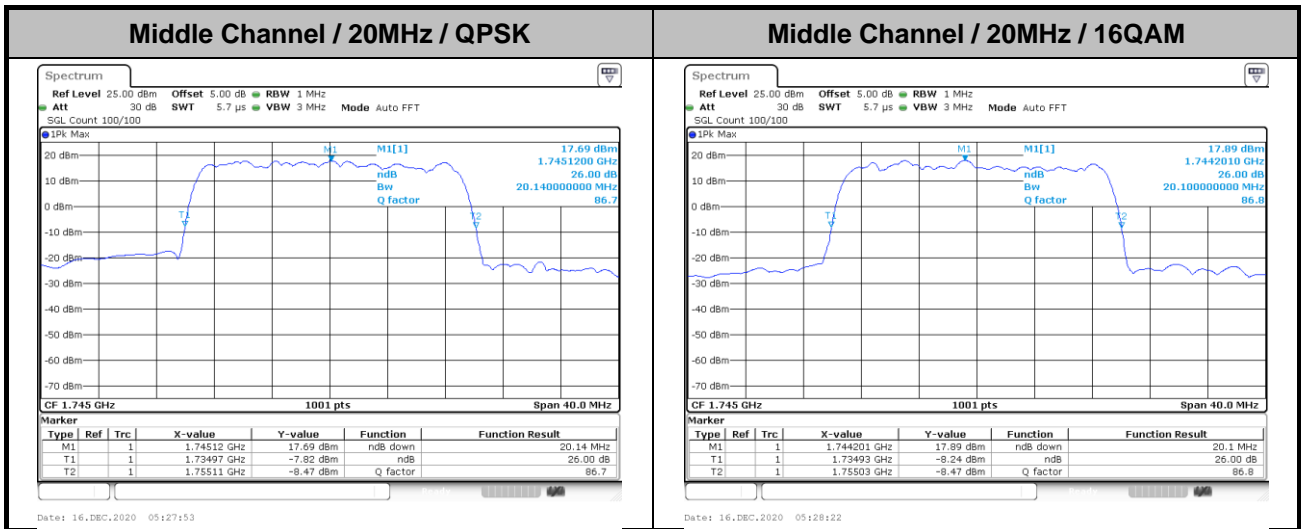
Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size		Full RB		Full RB	Result
Lowest CH					PASS
Middle CH		5.13		5.91	
Highest CH					
Mode	LTE Band 66 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size		Full RB			Result
Lowest CH			-	-	PASS
Middle CH		6.23	-	-	
Highest CH			-	-	





26dB Bandwidth

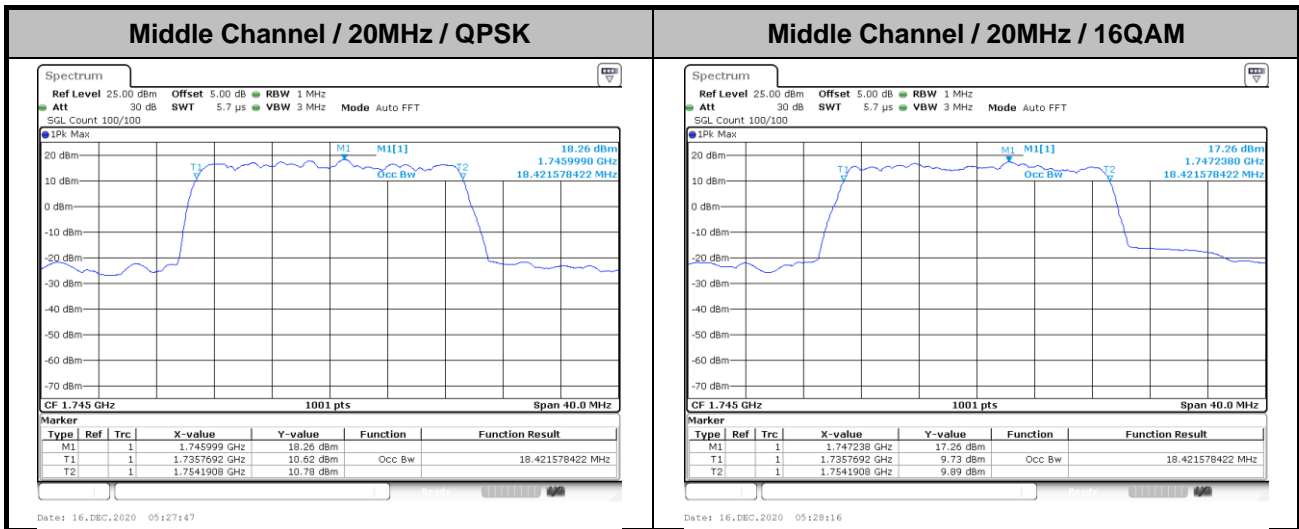
Mode	LTE Band 66 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.14	20.10





Occupied Bandwidth

Mode	LTE Band 66 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.42	18.42

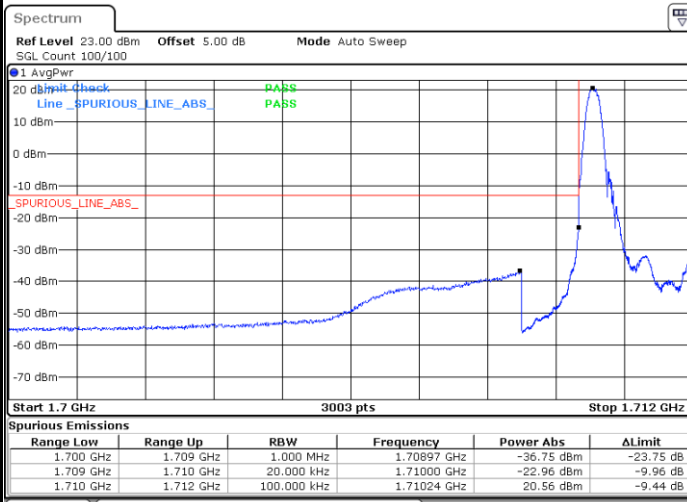




Conducted Band Edge

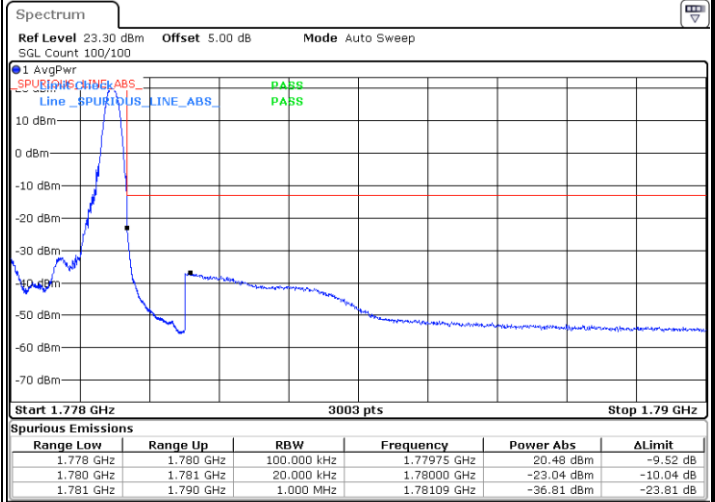
LTE Band 66 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



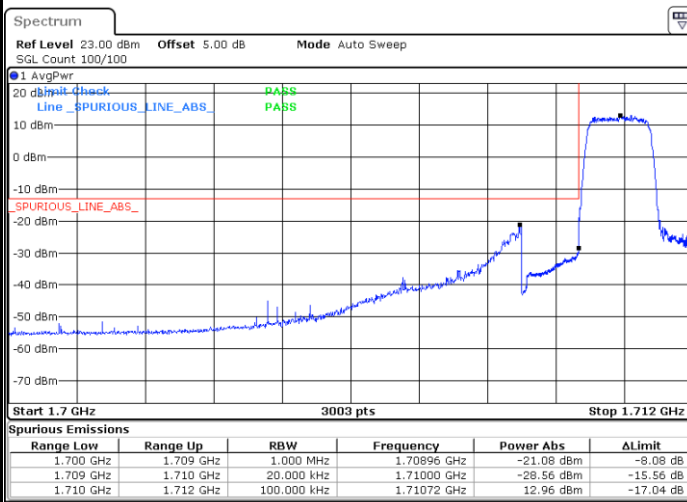
Date: 16.DEC.2020 03:11:50

Highest Band Edge / 1RB



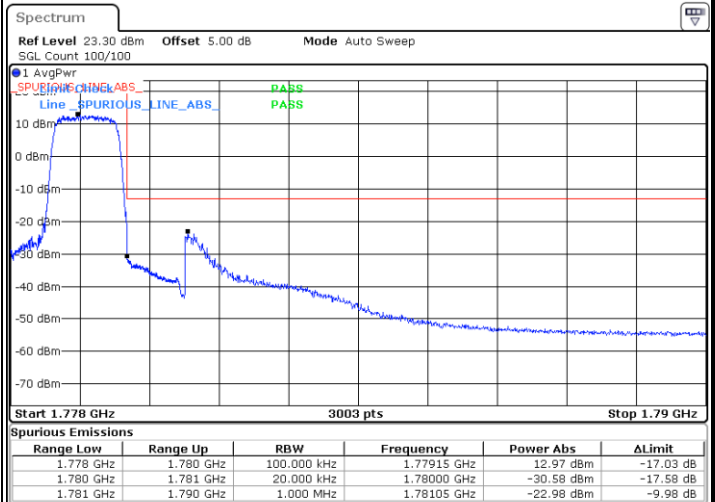
Date: 16.DEC.2020 03:25:52

Lowest Band Edge / Full RB



Date: 16.DEC.2020 02:47:52

Highest Band Edge / Full RB

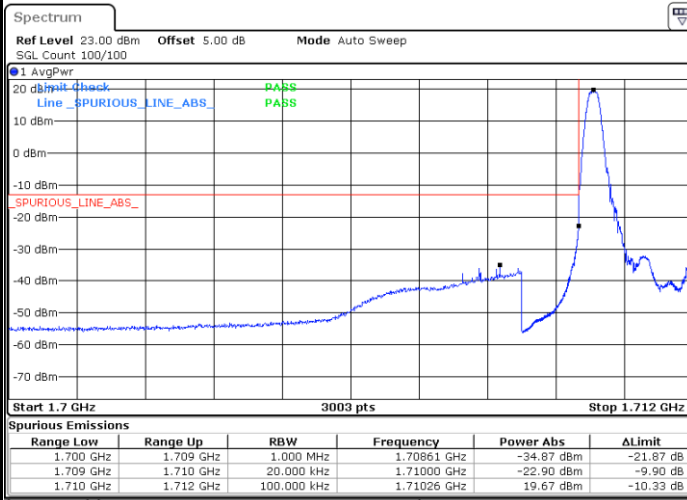


Date: 16.DEC.2020 03:14:06



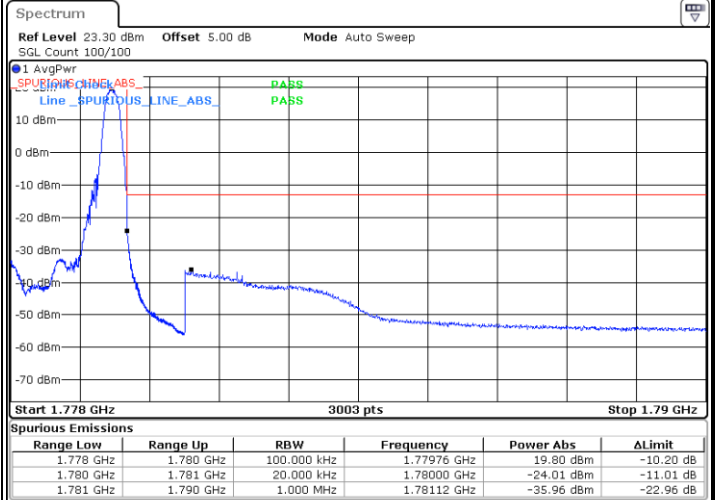
LTE Band 66 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



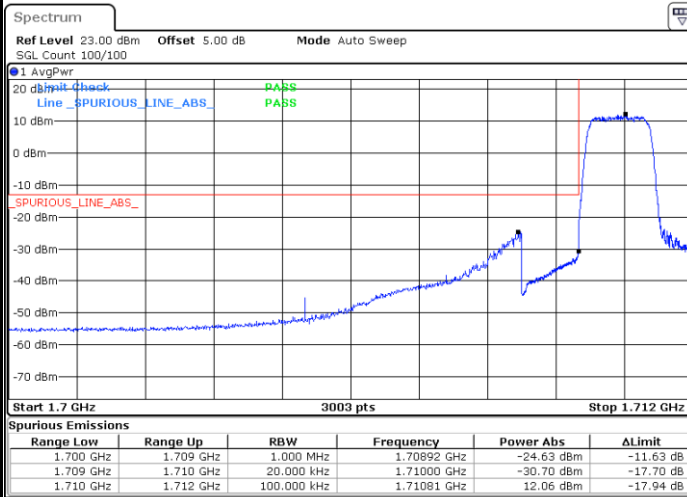
Date: 16.DEC.2020 03:10:37

Highest Band Edge / 1 RB



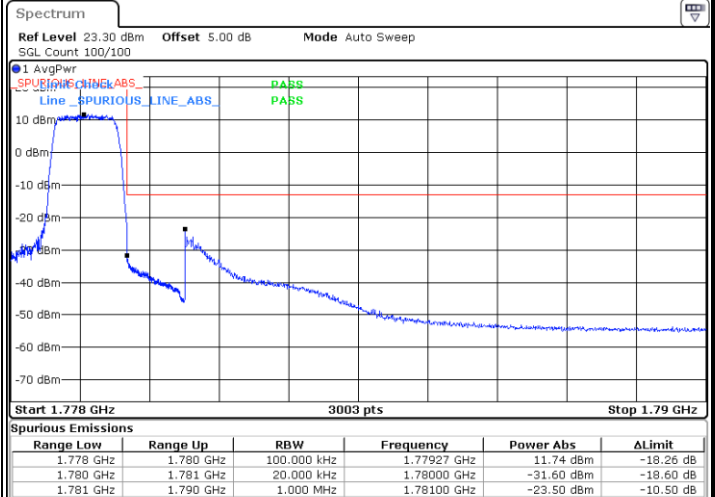
Date: 16.DEC.2020 03:24:07

Lowest Band Edge / Full RB



Date: 16.DEC.2020 03:01:34

Highest Band Edge / Full RB

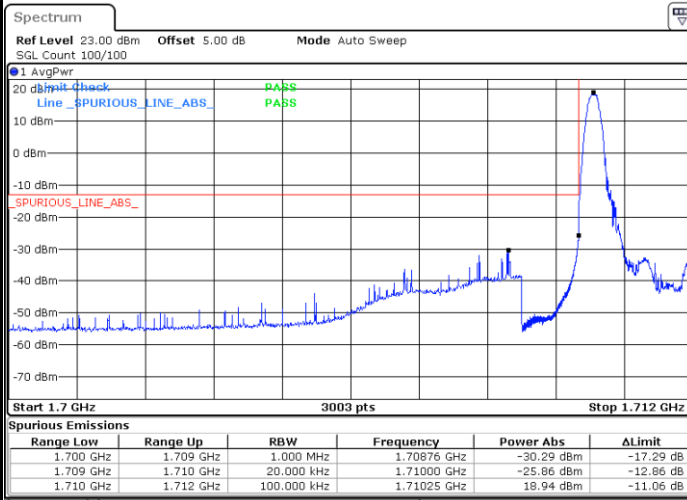


Date: 16.DEC.2020 03:18:34



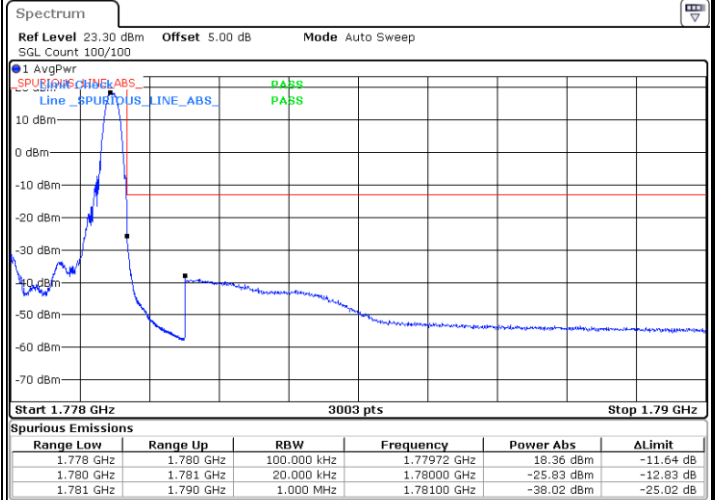
LTE Band 66 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



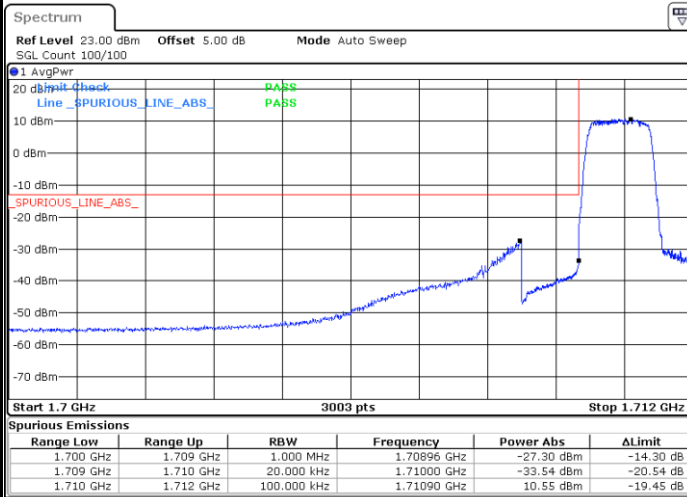
Date: 16.DEC.2020 03:08:40

Highest Band Edge / 1 RB



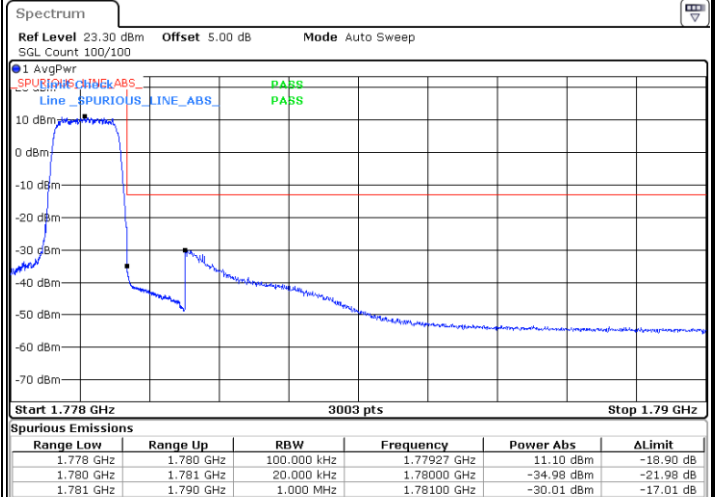
Date: 16.DEC.2020 03:21:52

Lowest Band Edge / Full RB



Date: 16.DEC.2020 03:06:17

Highest Band Edge / Full RB

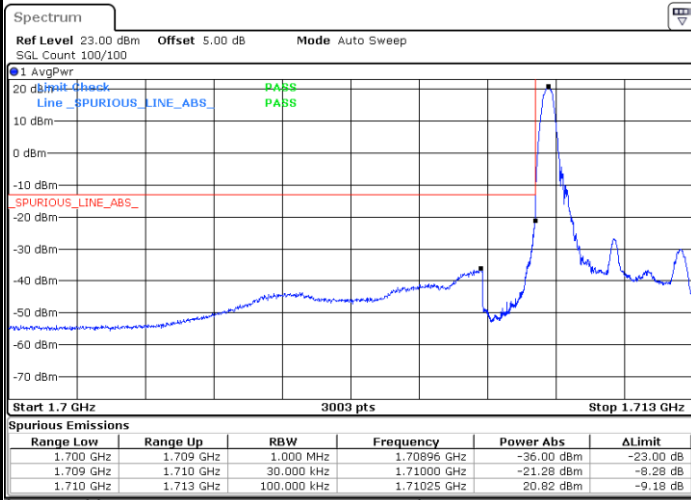


Date: 16.DEC.2020 03:20:38



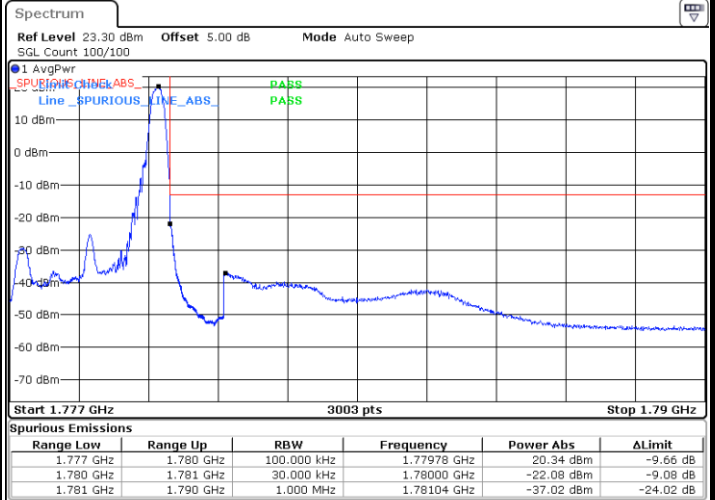
LTE Band 66 / 3MHz / QPSK

Lowest Band Edge / 1RB



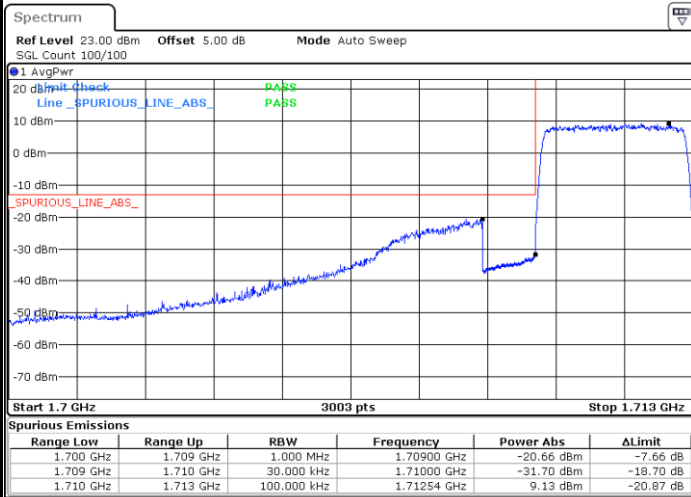
Date: 16.DEC.2020 03:45:43

Highest Band Edge / 1 RB



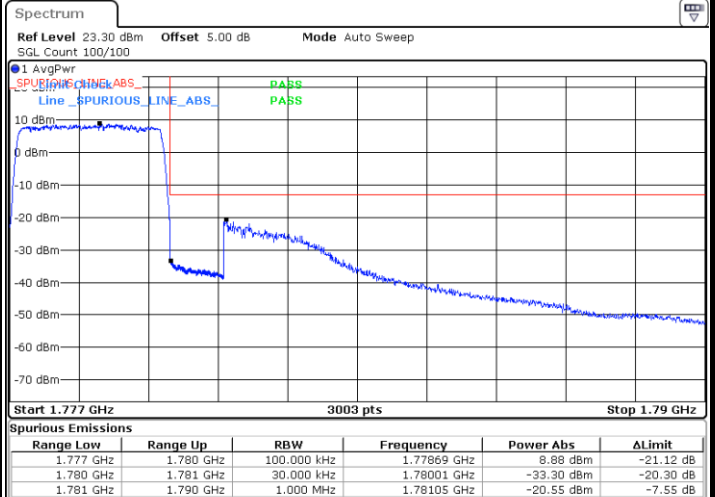
Date: 16.DEC.2020 03:53:56

Lowest Band Edge / Full RB



Date: 16.DEC.2020 03:34:58

Highest Band Edge / Full RB

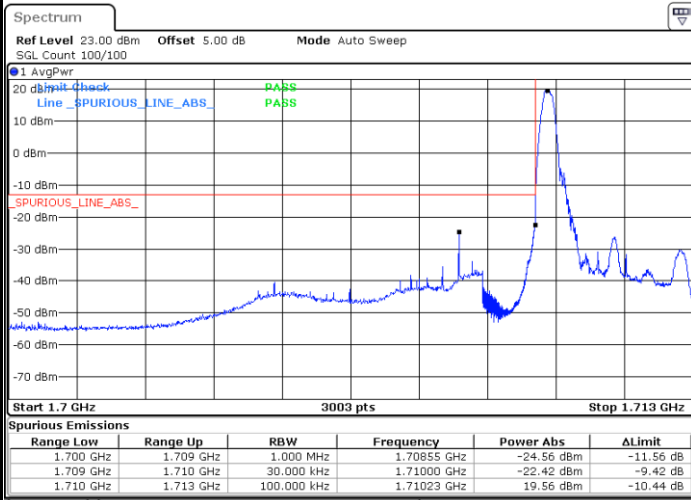


Date: 16.DEC.2020 03:47:42



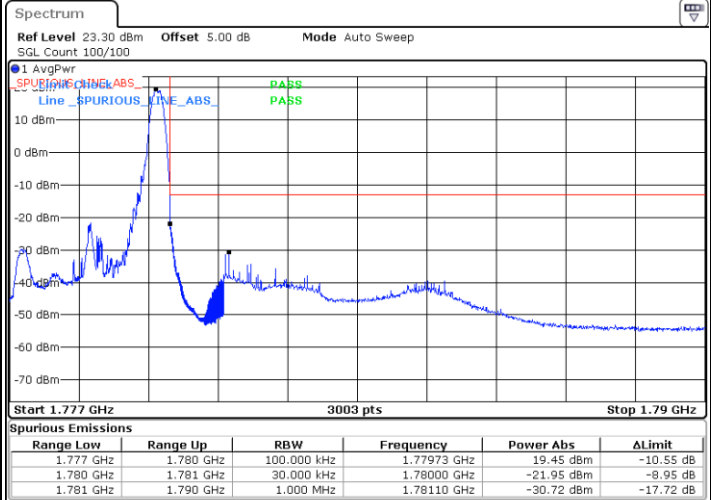
LTE Band 66 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



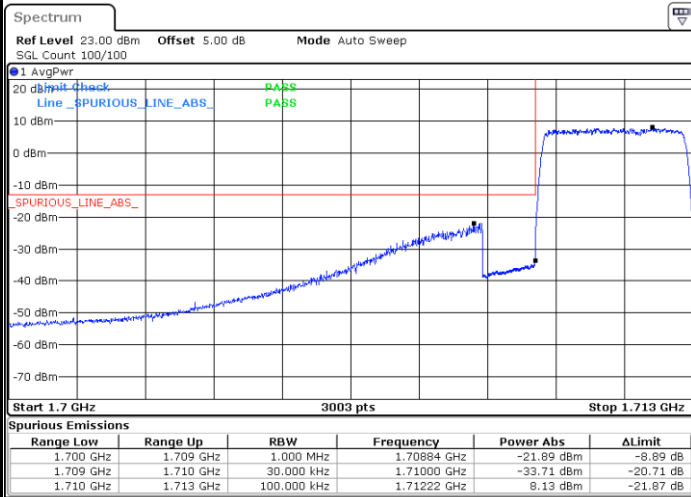
Date: 16.DEC.2020 03:43:03

Highest Band Edge / 1 RB



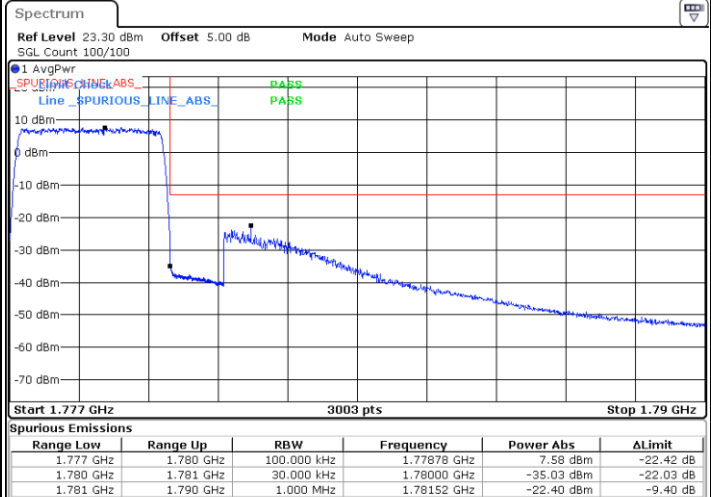
Date: 16.DEC.2020 03:52:28

Lowest Band Edge / Full RB



Date: 16.DEC.2020 03:38:58

Highest Band Edge / Full RB



Date: 16.DEC.2020 03:48:24