



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	0.0041	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0041	
0	Normal Voltage	0.0054	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0059	
20	Normal Voltage	0.0041	
20	Battery End Point	0.0050	

Note:

- 1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41C

26dB Bandwidth

Mode	LTE Band 41C : 26dB BW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.68	24.98	30.09	25.18	30.57
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.83	24.93	30.03	34.69	39.64

Mode	LTE Band 41C : 26dB BW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.73	24.98	29.79	25.23	30.45
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.83	24.98	29.85	34.90	39.80

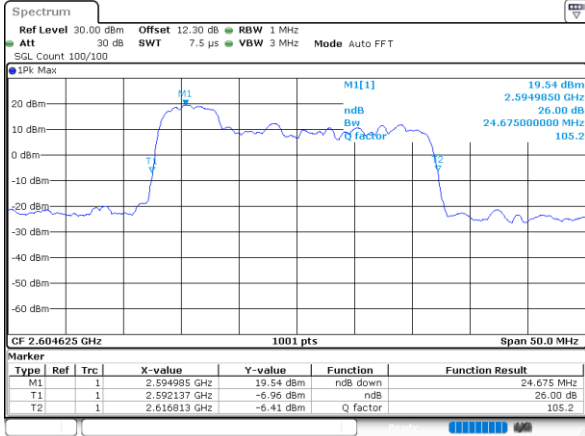
Mode	LTE Band 41C : 26dB BW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	24.68	25.18	30.03	25.18	30.39
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	34.90	25.03	29.91	34.97	39.72



LTE Band 41C

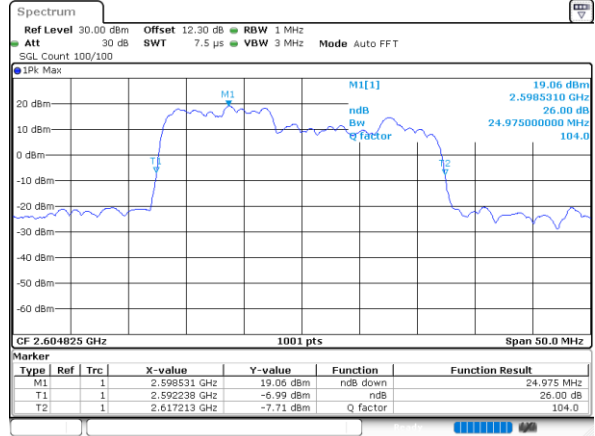
QPSK

Middle Channel / 5MHz+20MHz



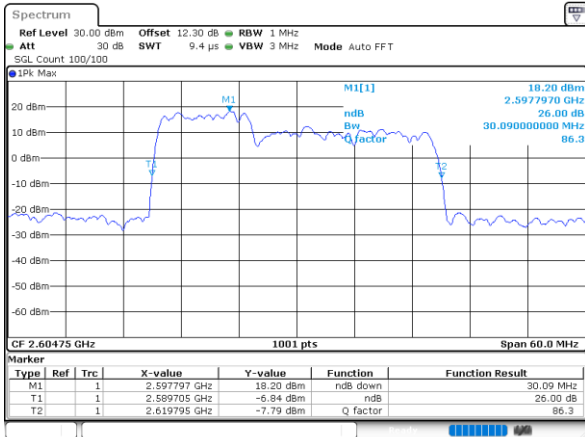
Date: 15, DEC, 2020 01:09:00

Middle Channel / 10MHz+15MHz



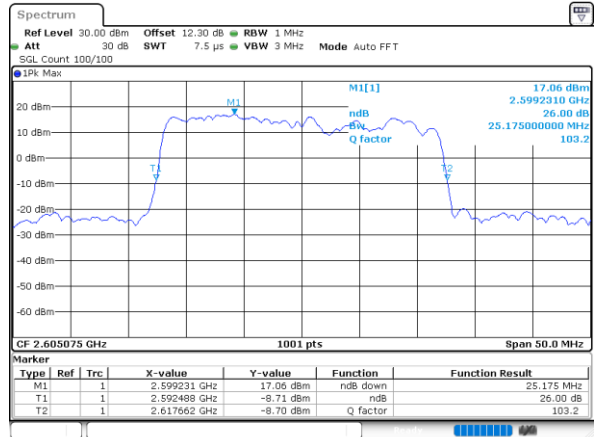
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Middle Channel / 10MHz+20MHz



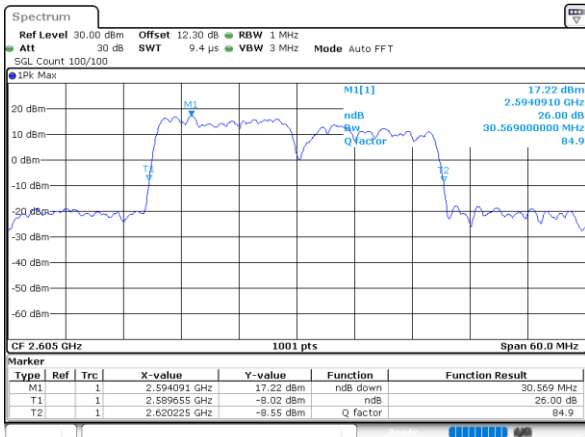
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Middle Channel / 15MHz+10MHz



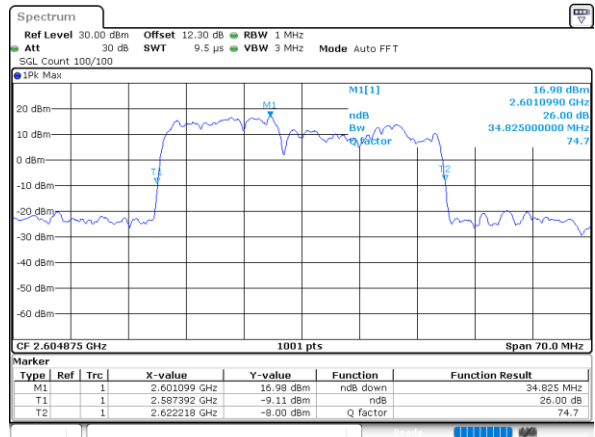
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Middle Channel / 15MHz+15MHz



Date: 15, DEC, 2020 01:58:03

Middle Channel / 15MHz+20MHz



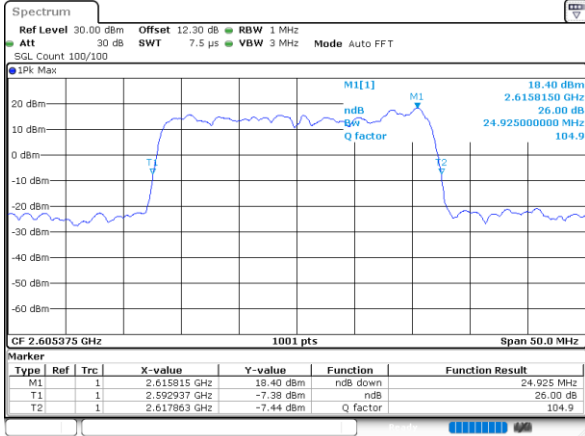
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LTE Band 41C

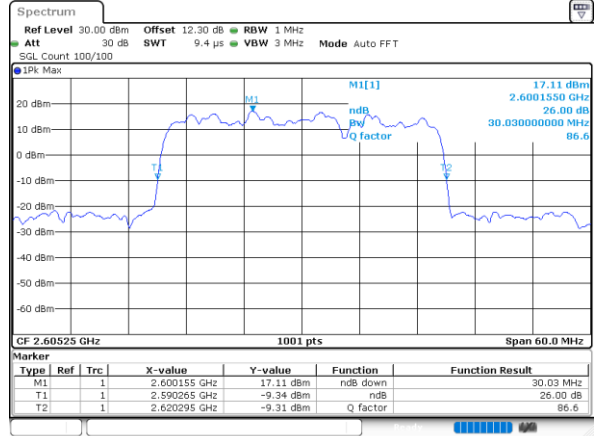
QPSK

Middle Channel / 20MHz+5MHz



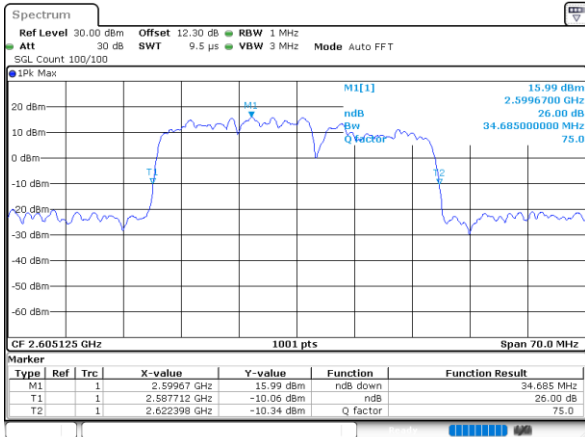
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Middle Channel / 20MHz+10MHz



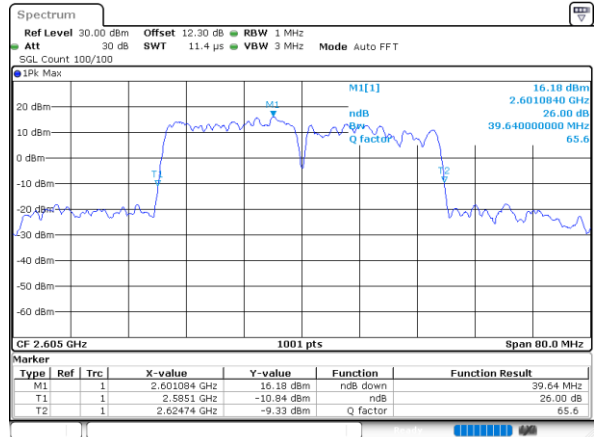
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Middle Channel / 20MHz+15MHz



Date: 15, DEC, 2020 02:06:41

Middle Channel / 20MHz+20MHz



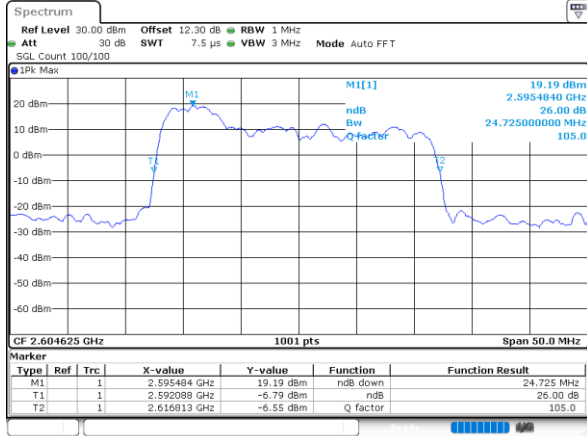
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LTE Band 41C

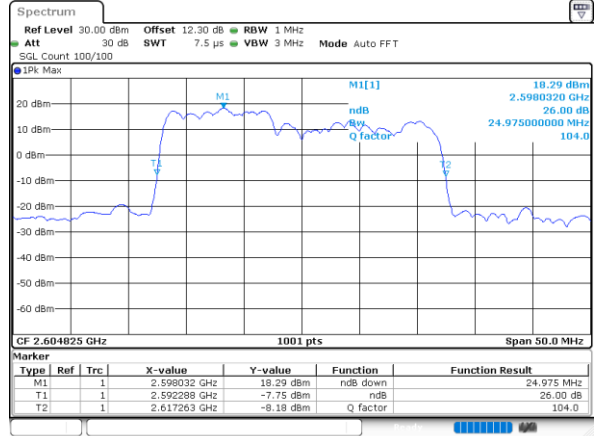
16QAM

Middle Channel / 5MHz+20MHz



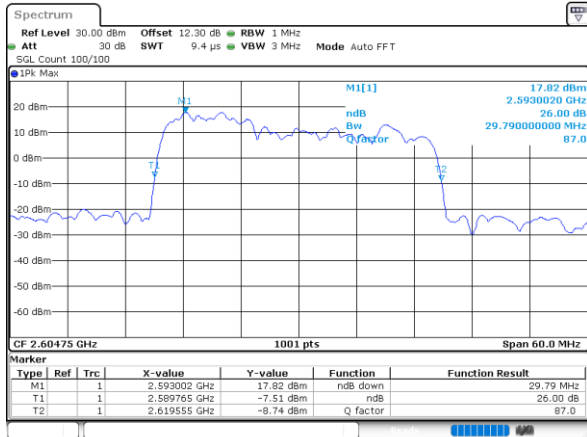
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Middle Channel / 10MHz+15MHz



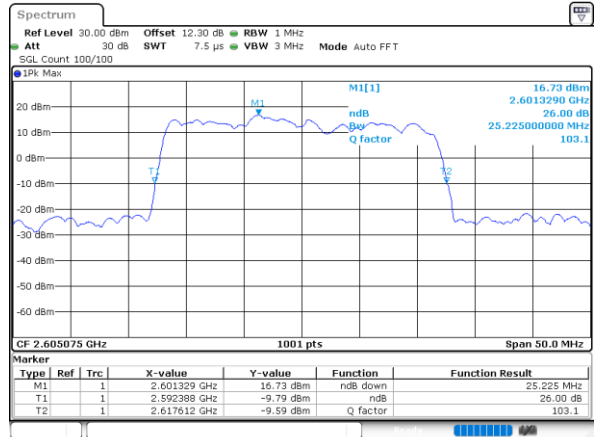
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Middle Channel / 10MHz+20MHz



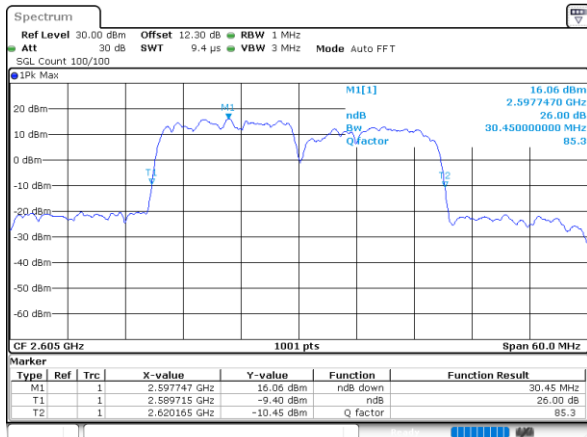
Date: 15, DEC, 2020 01:49:38

Middle Channel / 15MHz+10MHz



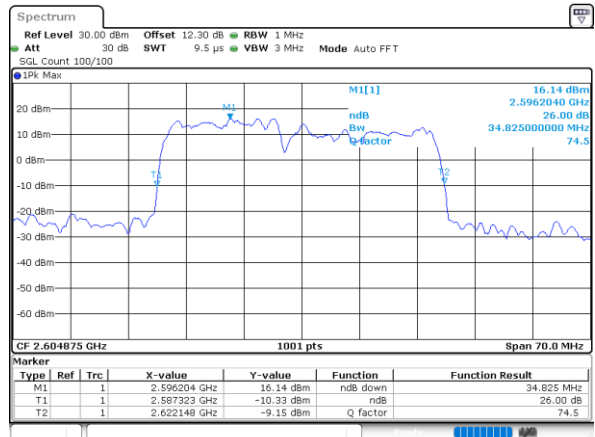
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Middle Channel / 15MHz+15MHz



Date: 15, DEC, 2020 01:57:40

Middle Channel / 15MHz+20MHz



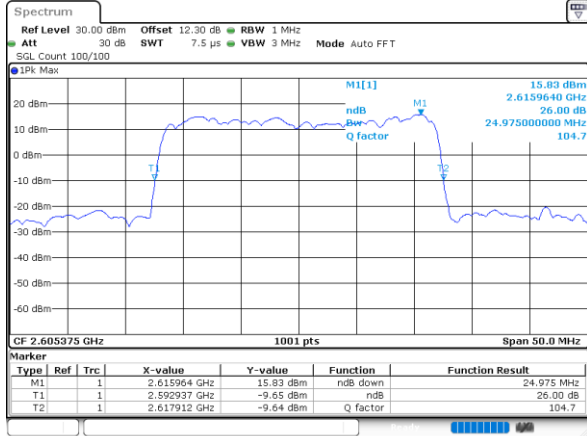
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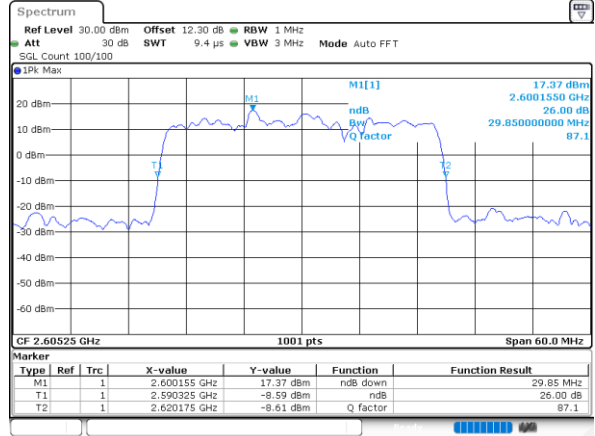
LTE Band 41C

16QAM

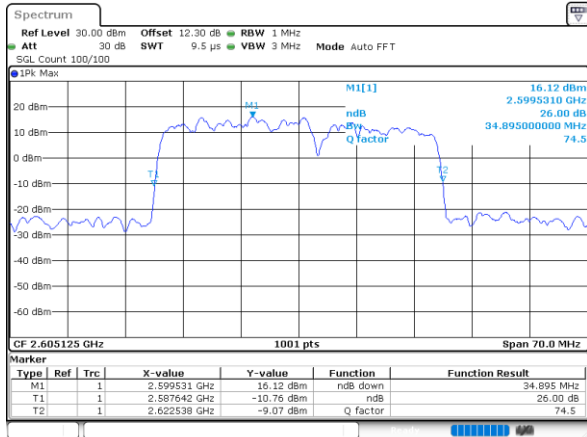
Middle Channel / 20MHz+5MHz



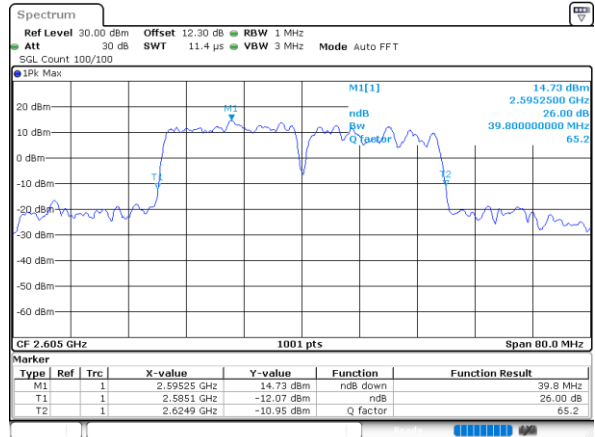
Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz

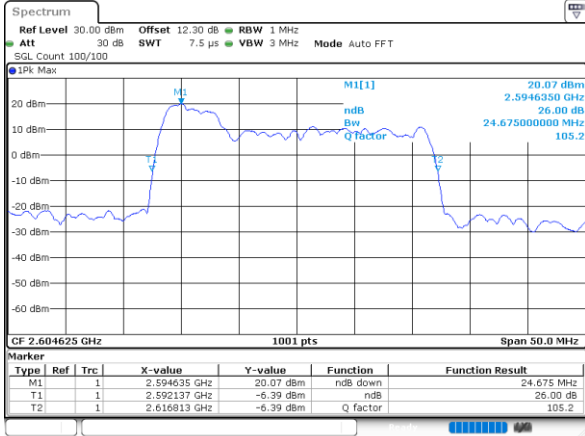




LTE Band 41C

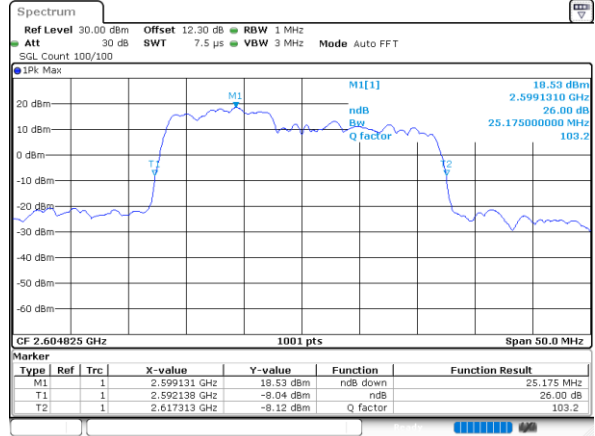
64QAM

Middle Channel / 5MHz+20MHz



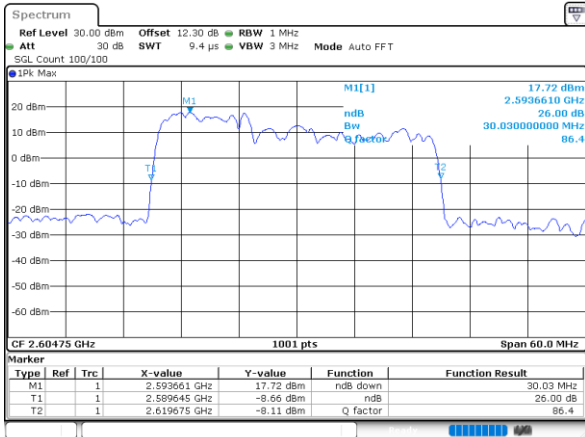
Date: 15, DEC, 2020 01:08:13

Middle Channel / 10MHz+15MHz



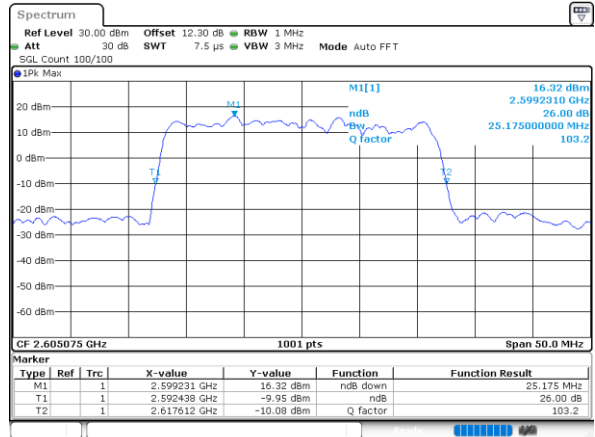
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Middle Channel / 10MHz+20MHz



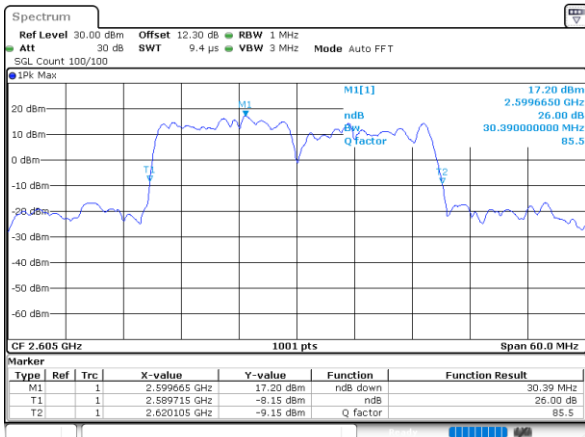
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Middle Channel / 15MHz+10MHz



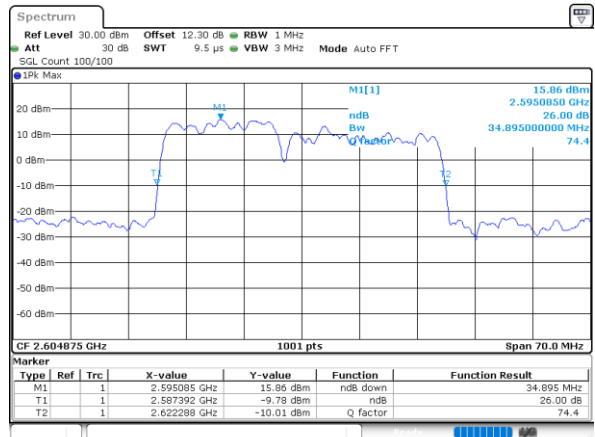
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Middle Channel / 15MHz+15MHz



Date: 15, DEC, 2020 01:57:17

Middle Channel / 15MHz+20MHz



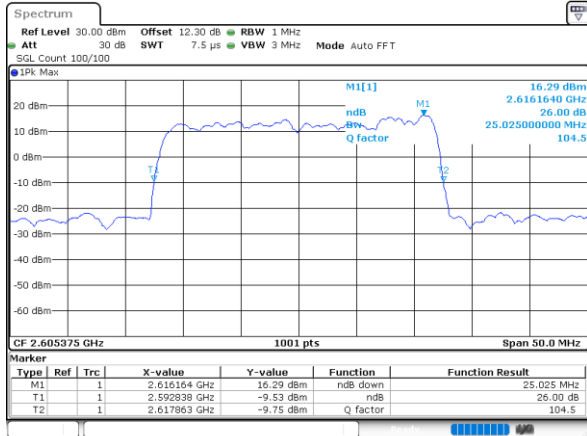
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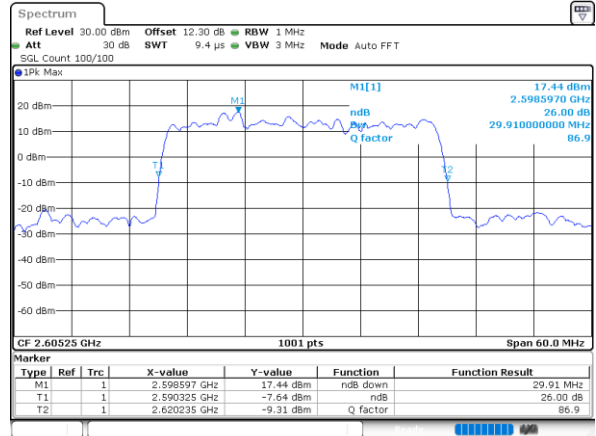
LTE Band 41C

64QAM

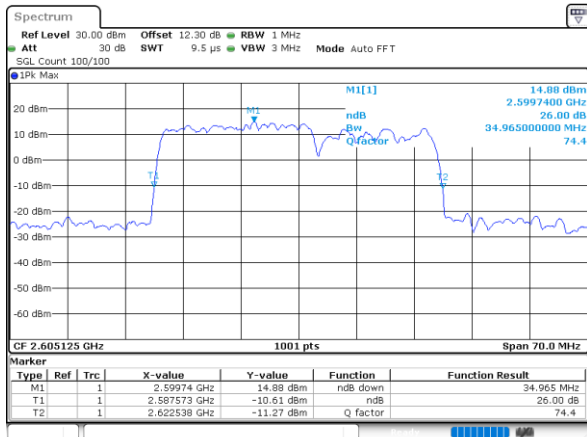
Middle Channel / 20MHz+5MHz



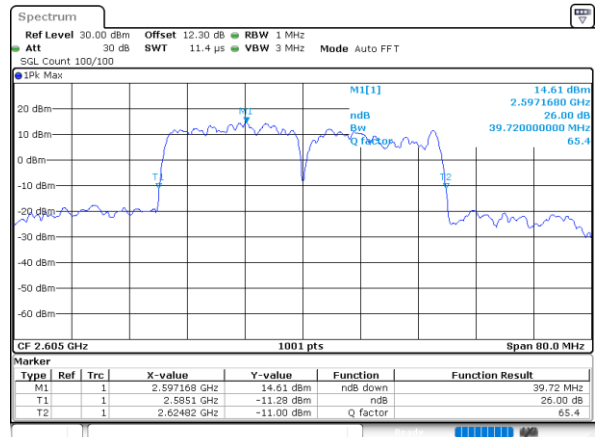
Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz





Occupied Bandwidth

Mode	LTE Band 41C : 99%OBW(MHz)				
QPSK					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	23.23	23.23	27.75	23.33	28.41
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	32.87	23.28	27.87	32.73	37.64

Mode	LTE Band 41C : 99%OBW(MHz)				
16QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	23.13	23.28	27.93	23.23	28.35
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	32.52	23.08	28.11	32.94	37.24

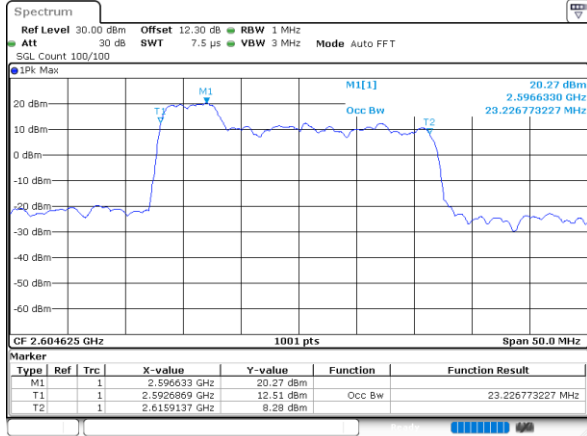
Mode	LTE Band 41C : 99%OBW(MHz)				
64QAM					
BW	5MHz+20MHz	10MHz+15MHz	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz
Middle CH	23.13	23.28	27.87	23.43	28.41
BW	15MHz+20MHz	20MHz+5MHz	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz
Middle CH	32.80	23.33	27.87	32.45	37.40



LTE Band 41C

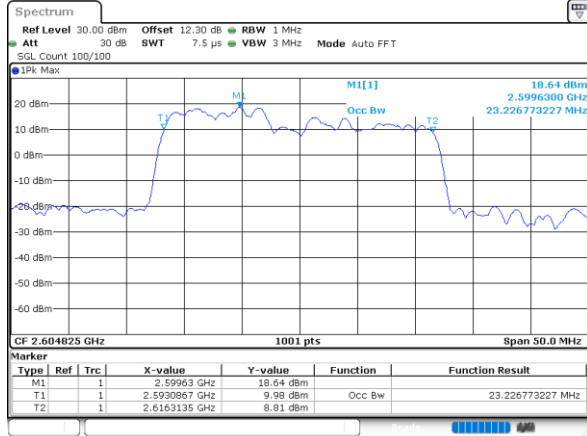
QPSK

Middle Channel / 5MHz+20MHz



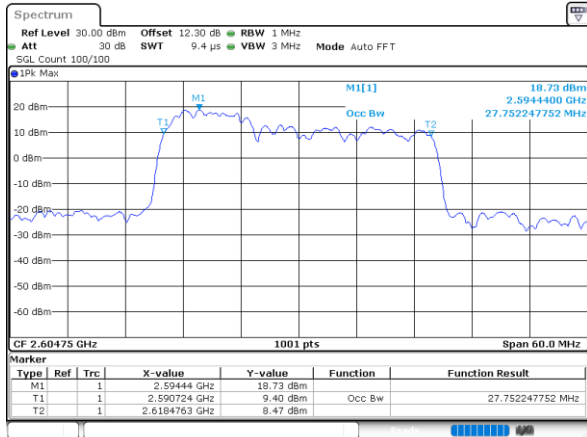
Date: 15, DEC, 2020 01:07:05

Middle Channel / 10MHz+15MHz



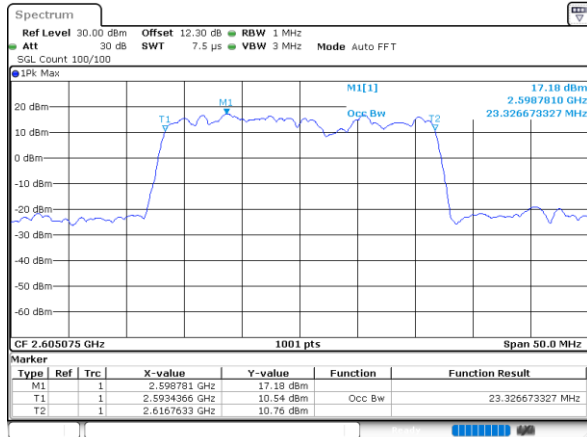
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Middle Channel / 10MHz+20MHz



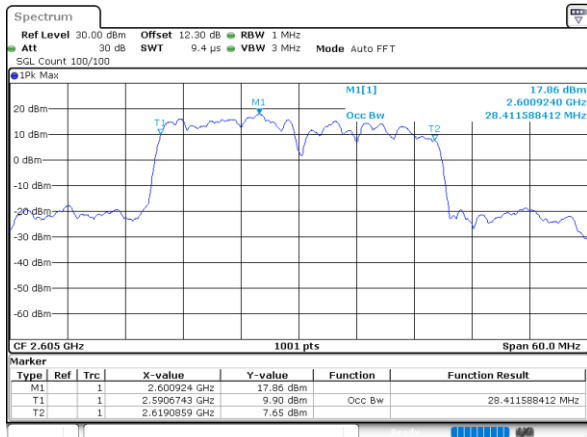
Date: 15, DEC, 2020 01:48:06

Middle Channel / 15MHz+10MHz



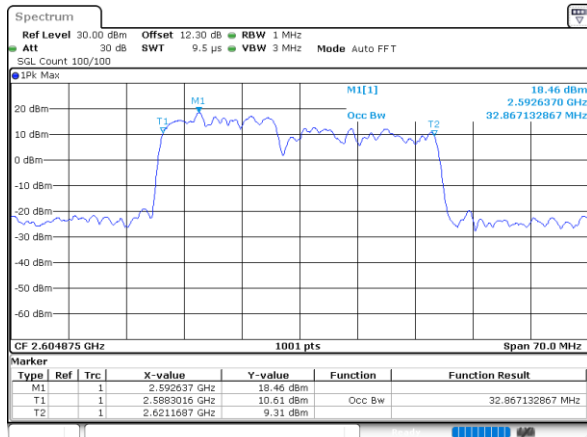
Date: 15, DEC, 2020 01:43:41

Middle Channel / 15MHz+15MHz



Date: 15, DEC, 2020 01:56:08

Middle Channel / 15MHz+20MHz



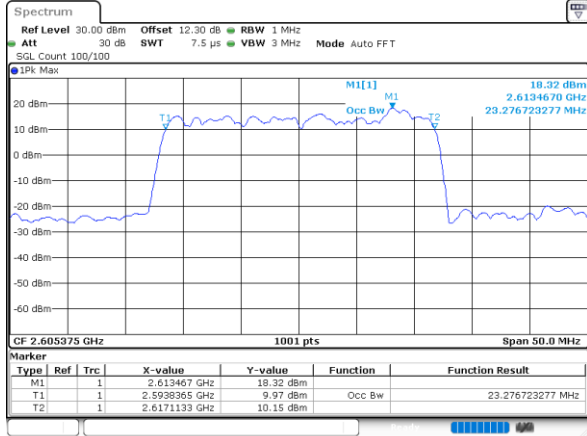
Date: 15, DEC, 2020 01:59:55



LTE Band 41C

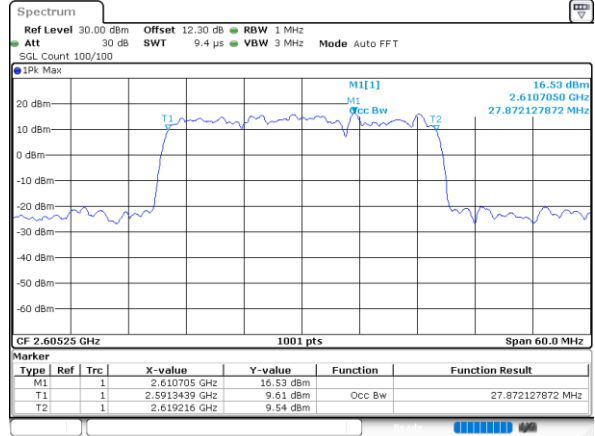
QPSK

Middle Channel / 20MHz+5MHz



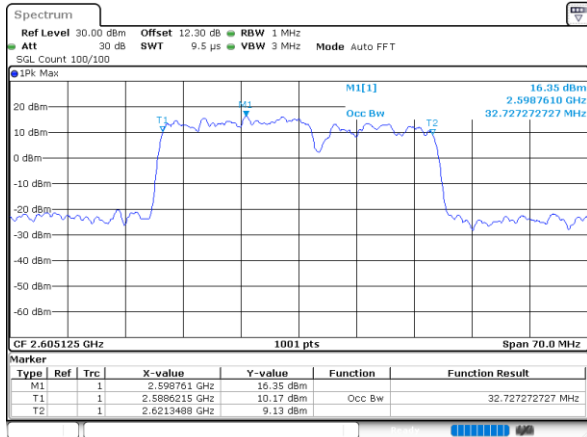
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Middle Channel / 20MHz+10MHz



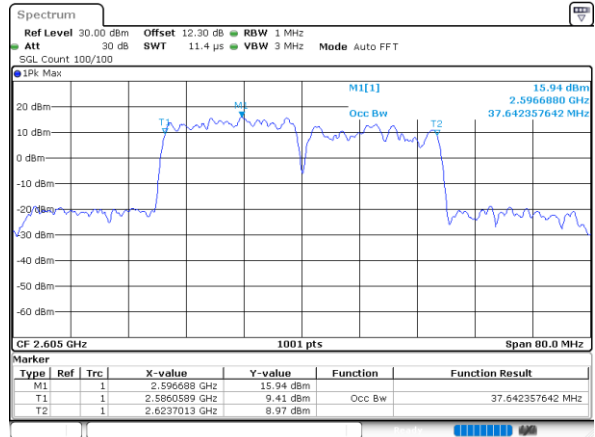
Date: 15, DEC, 2020 01:52:13

Middle Channel / 20MHz+15MHz



Date: 15, DEC, 2020 02:04:46

Middle Channel / 20MHz+20MHz



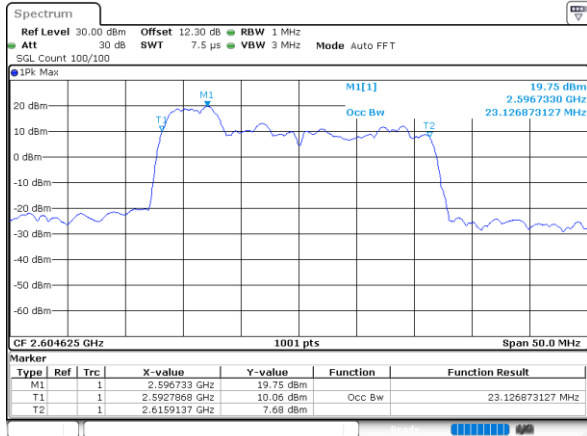
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LTE Band 41C

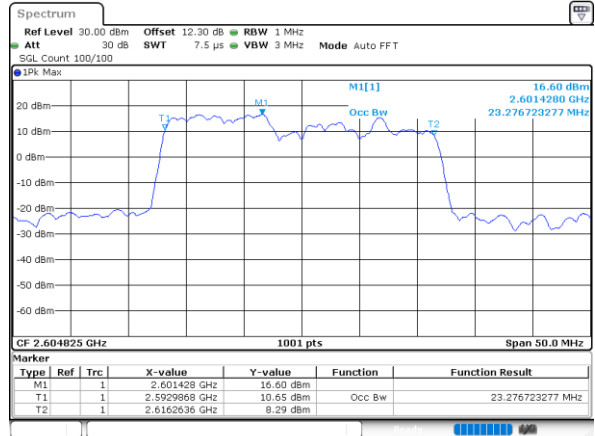
16QAM

Middle Channel / 5MHz+20MHz



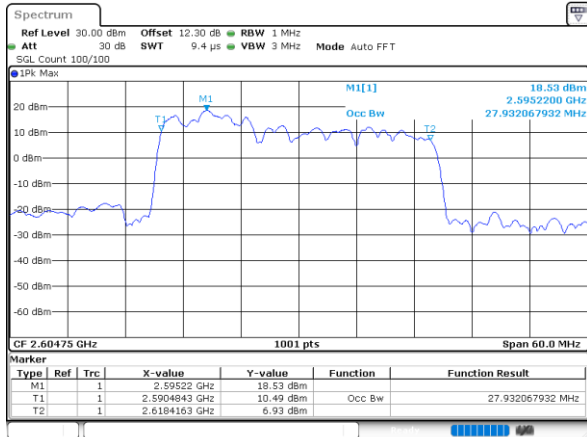
Date: 15, DEC, 2020 01:07:28

Middle Channel / 10MHz+15MHz



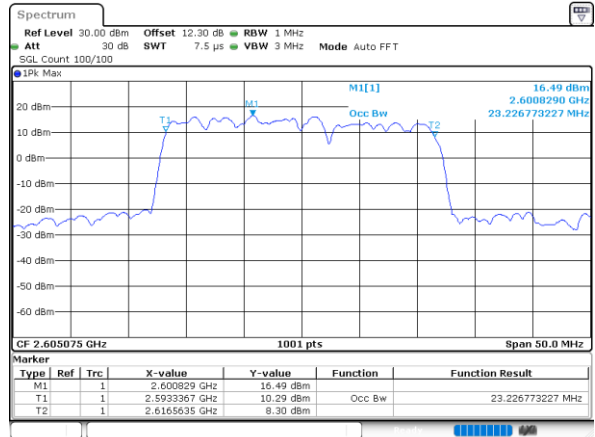
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Middle Channel / 10MHz+20MHz



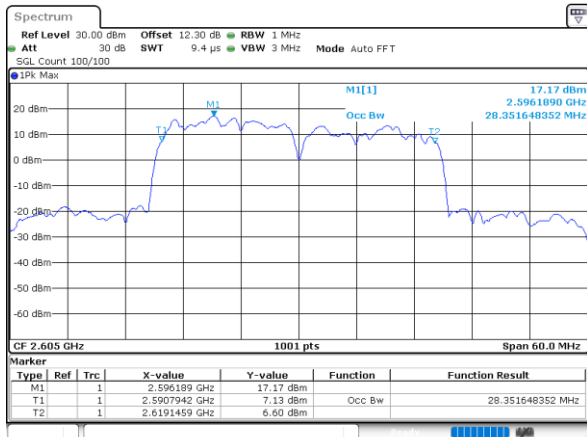
Date: 15, DEC, 2020 01:48:30

Middle Channel / 15MHz+10MHz



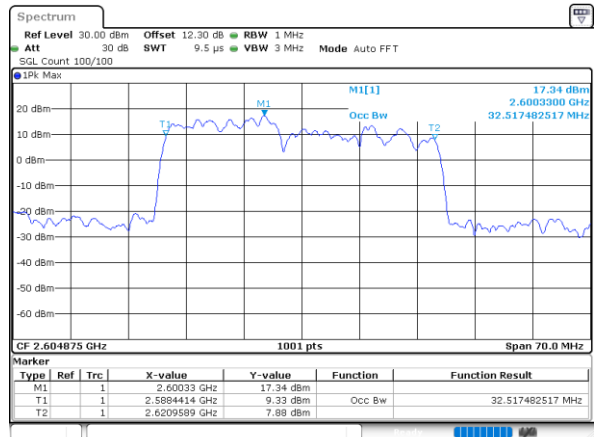
Date: 15, DEC, 2020 01:44:04

Middle Channel / 15MHz+15MHz



Date: 15, DEC, 2020 01:56:32

Middle Channel / 15MHz+20MHz



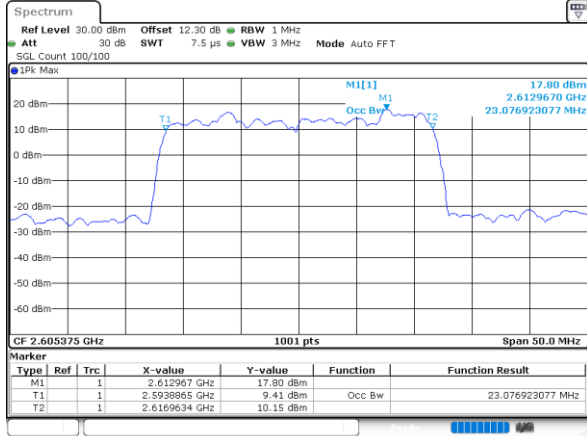
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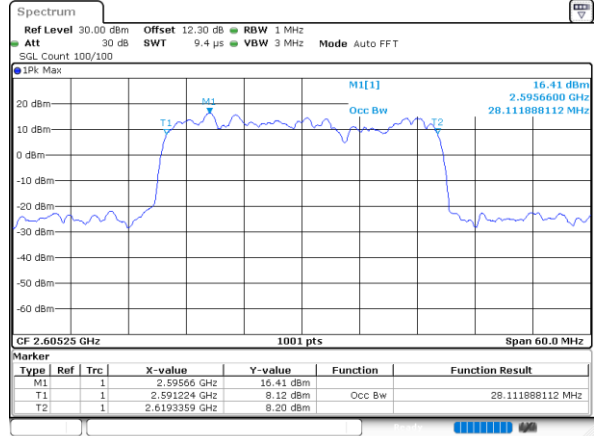
LTE Band 41C

16QAM

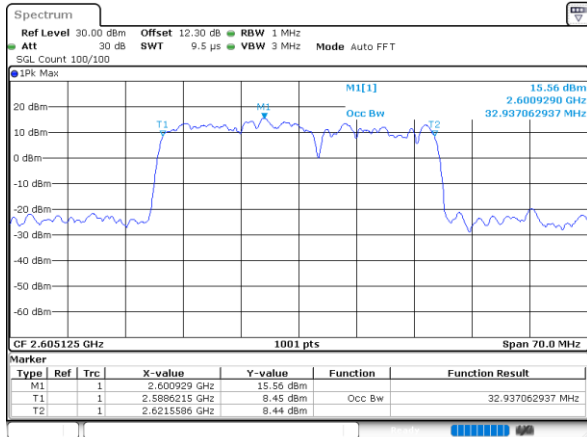
Middle Channel / 20MHz+5MHz



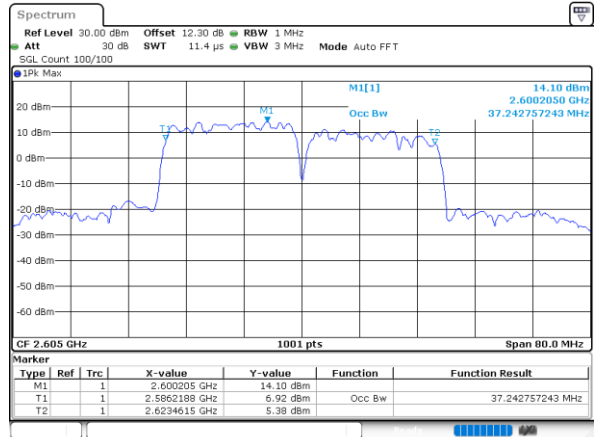
Middle Channel / 20MHz+10MHz



Middle Channel / 20MHz+15MHz



Middle Channel / 20MHz+20MHz

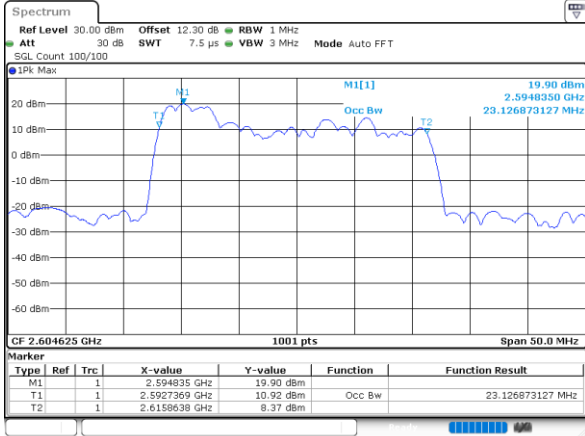




LTE Band 41C

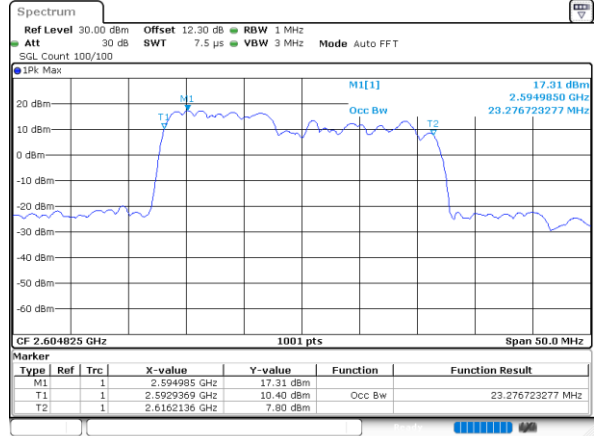
64QAM

Middle Channel / 5MHz+20MHz



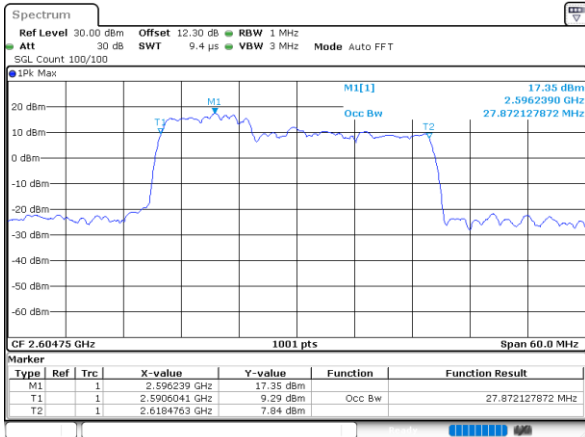
Date: 15, DEC, 2020 01:07:51

Middle Channel / 10MHz+15MHz



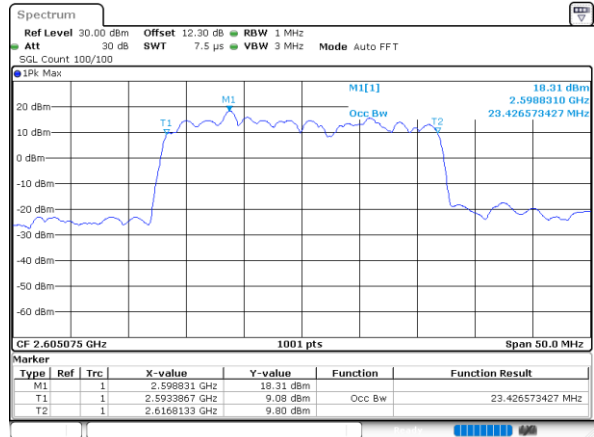
Date: 15, DEC, 2020 01:13:23

Middle Channel / 10MHz+20MHz



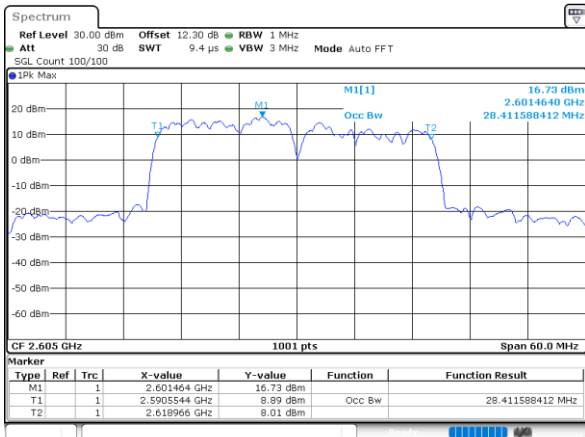
Date: 15, DEC, 2020 01:48:53

Middle Channel / 15MHz+10MHz



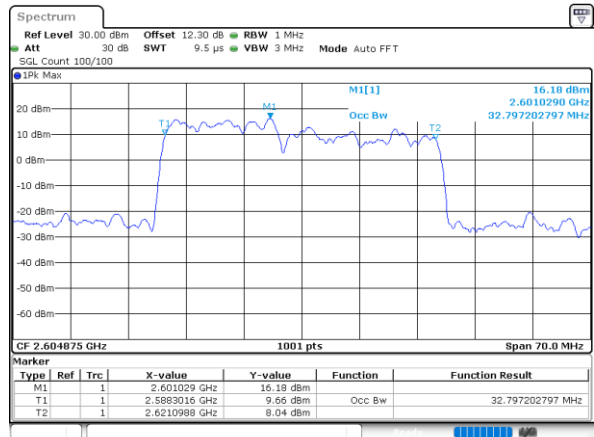
Date: 15, DEC, 2020 01:44:27

Middle Channel / 15MHz+15MHz



Date: 15, DEC, 2020 01:56:55

Middle Channel / 15MHz+20MHz



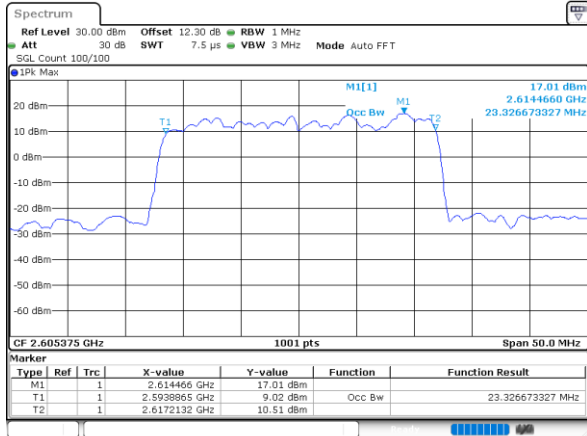
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LTE Band 41C

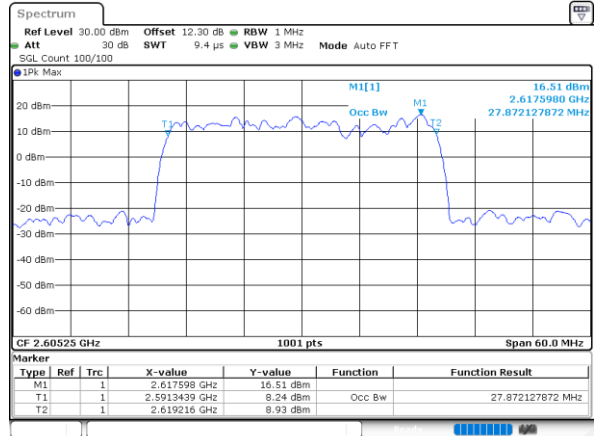
64QAM

Middle Channel / 20MHz+5MHz



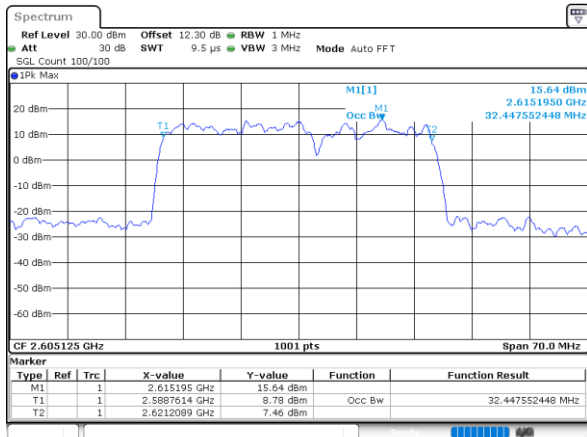
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Middle Channel / 20MHz+10MHz



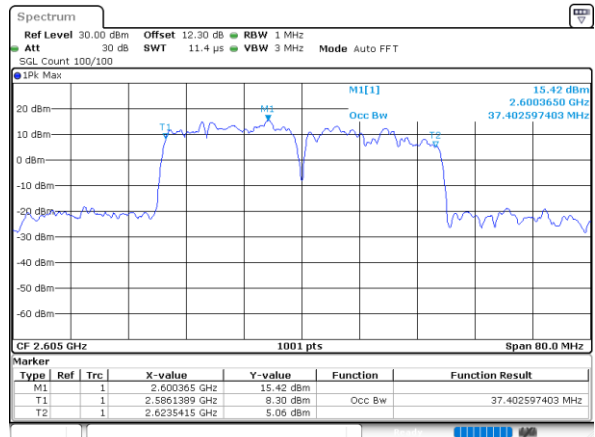
Date: 15, DEC, 2020 01:53:00

Middle Channel / 20MHz+15MHz



Date: 15, DEC, 2020 02:05:32

Middle Channel / 20MHz+20MHz



Date: 14, DEC, 2020 17:18:40

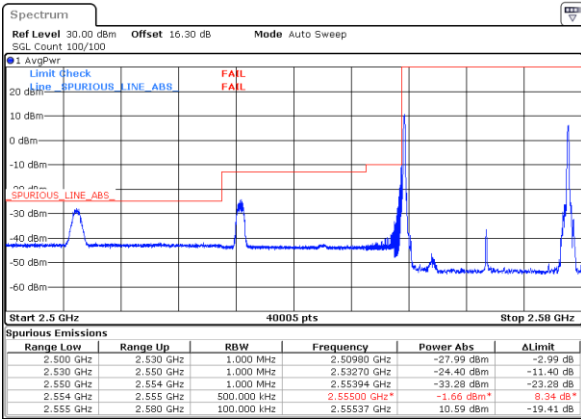


Conducted Band Edge

LTE Band 41C / 5MHz+20MHz

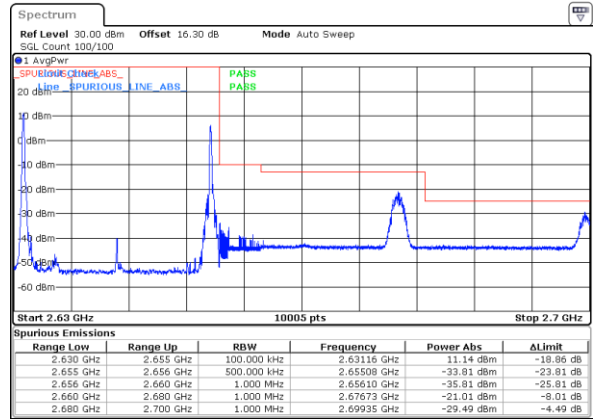
QPSK

Lowest Band Edge / 1RB0 and 1RB99



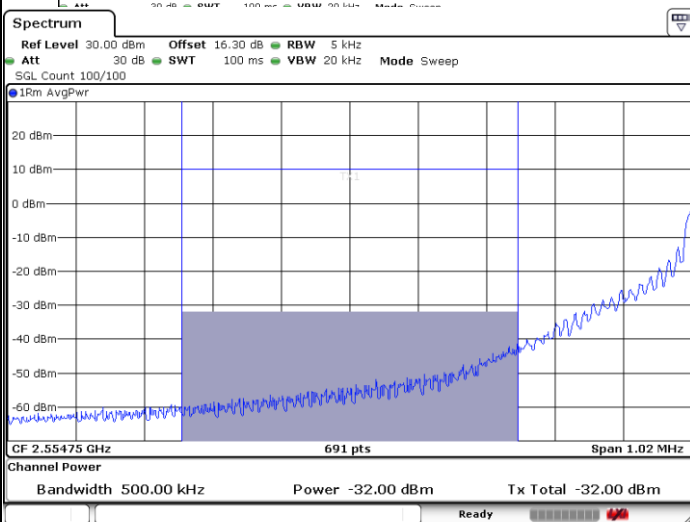
Date: 15, DEC, 2020 09:46:01

Highest Band Edge / 1RB0 and 1RB99



Date: 15, DEC, 2020 10:17:18

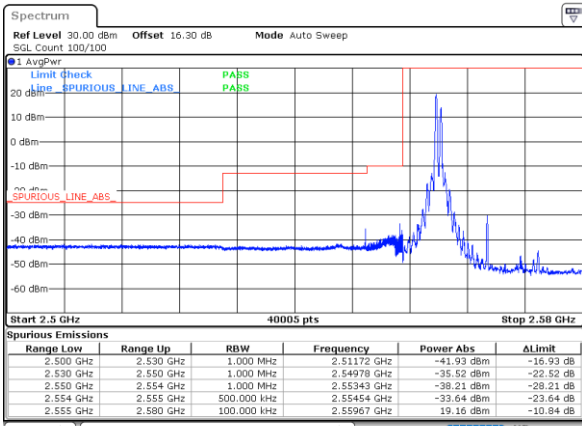
Channel Power -32dBm < -10dBm (Pass)



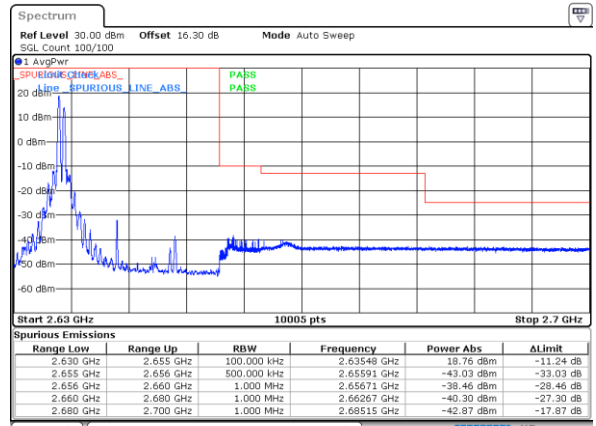
Date: 15, DEC, 2020 23:00:18



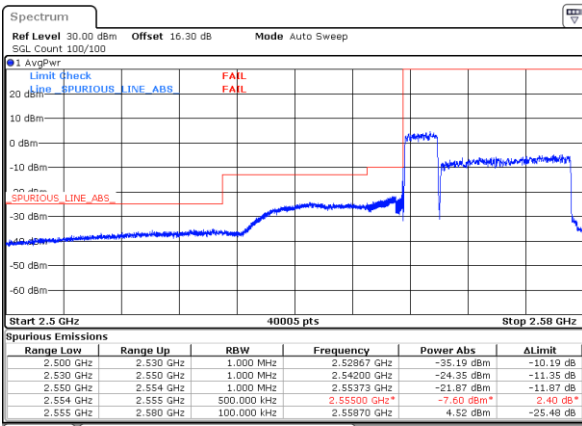
Lowest Band Edge / 1RB24 and 1RB0



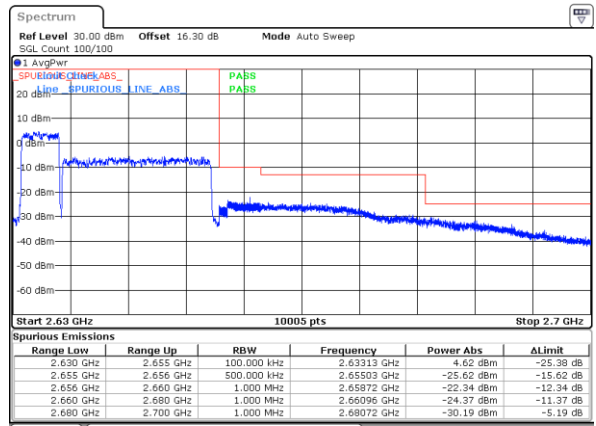
Highest Band Edge / 1RB24 and 1RB0



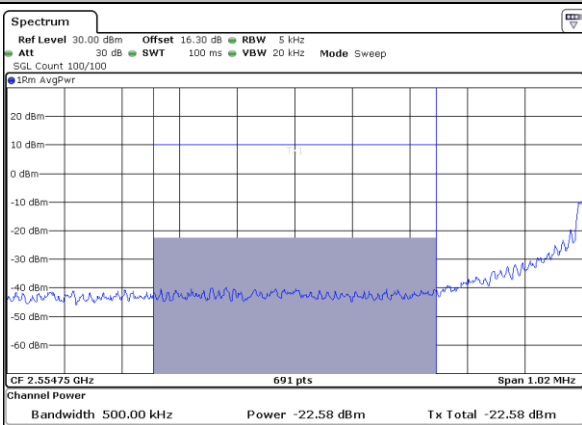
Lowest Band Edge / Full RB



Highest Band Edge / Full RB



Channel Power -22.58dBm < -10dBm (Pass)

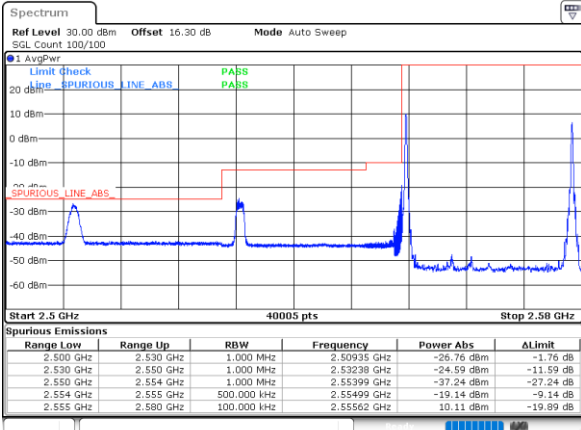




LTE Band 41C / 10MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74



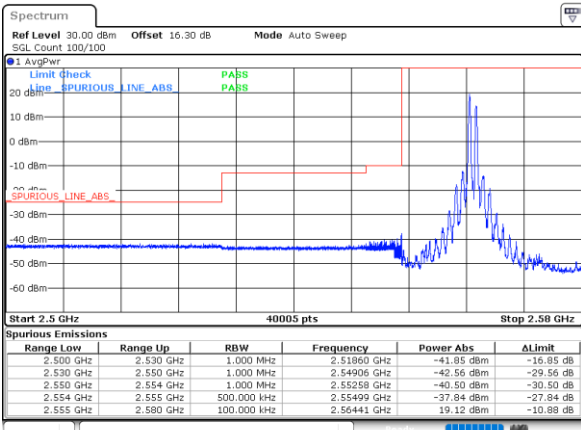
Date: 15. DEC. 2020 10:50:20

Highest Band Edge / 1RB0 and 1RB74



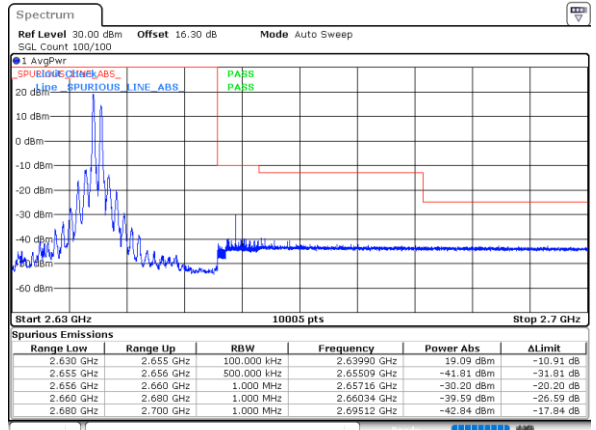
Date: 15. DEC. 2020 10:59:56

Lowest Band Edge / 1RB49 and 1RB0



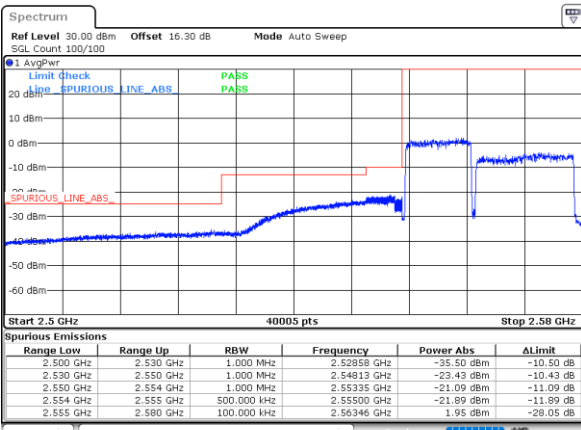
Date: 15. DEC. 2020 10:50:52

Highest Band Edge / 1RB49 and 1RB0



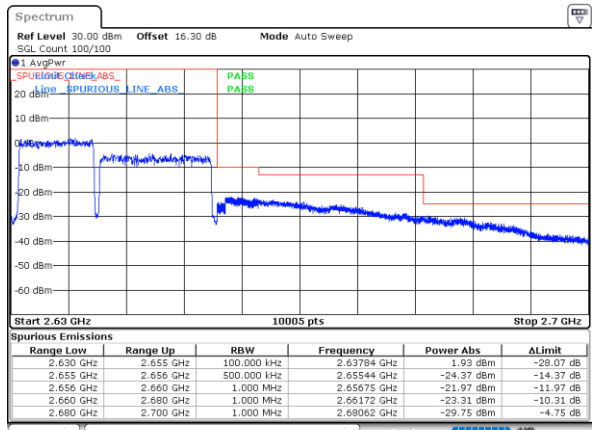
Date: 15. DEC. 2020 11:02:34

Lowest Band Edge / Full RB



Date: 15. DEC. 2020 10:47:36

Highest Band Edge / Full RB



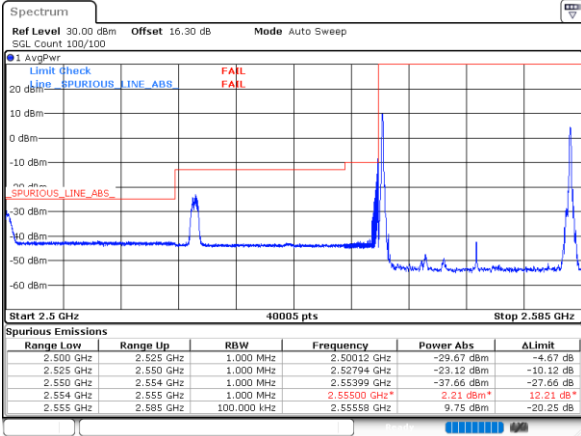
Date: 15. DEC. 2020 10:59:24



LTE Band 41C / 10MHz+20MHz

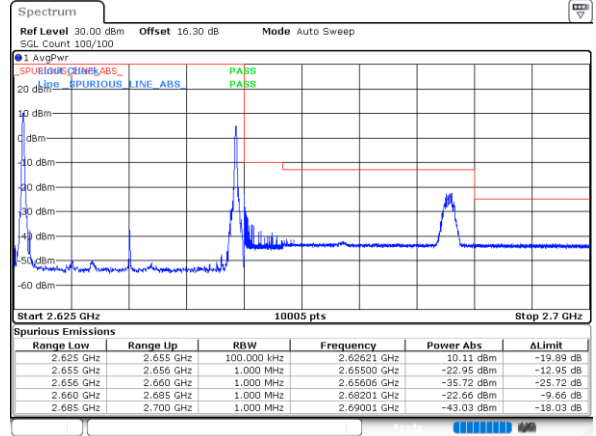
QPSK

Lowest Band Edge / 1RB0 and 1RB9



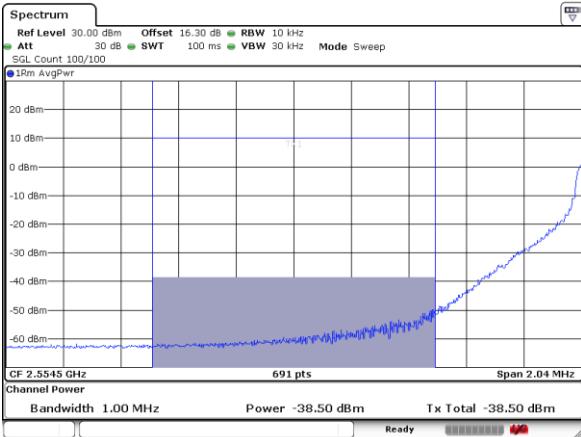
Date: 15_DEC.2020 11:29:18

Highest Band Edge / 1RB0 and 1RB9



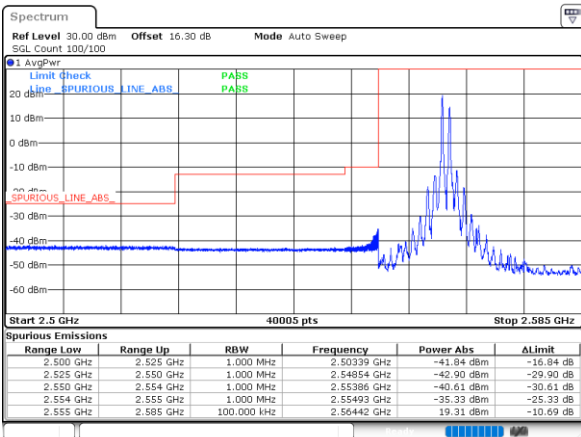
Date: 15_DEC.2020 11:39:13

Channel Power -38.50dBm < -10dBm (Pass)



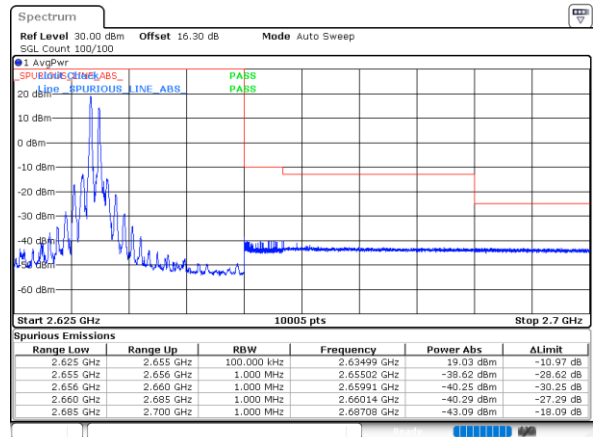
Date: 15_DEC.2020 23:16:17

Lowest Band Edge / 1RB49 and 1RB0



Date: 15_DEC.2020 11:29:51

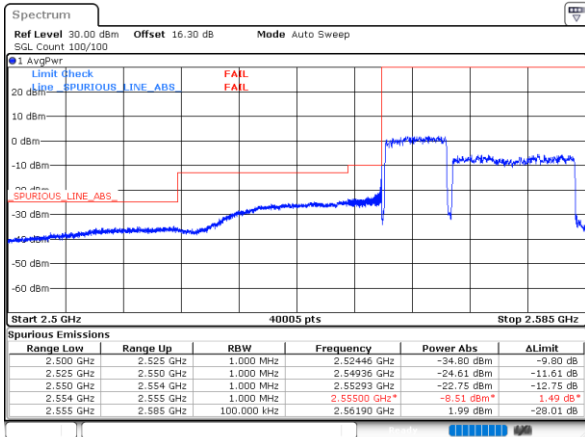
Highest Band Edge / 1RB49 and 1RB0



Date: 15_DEC.2020 11:41:53

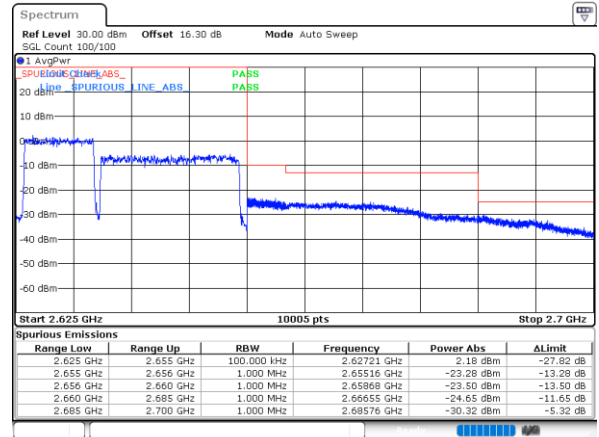


Lowest Band Edge / Full RB



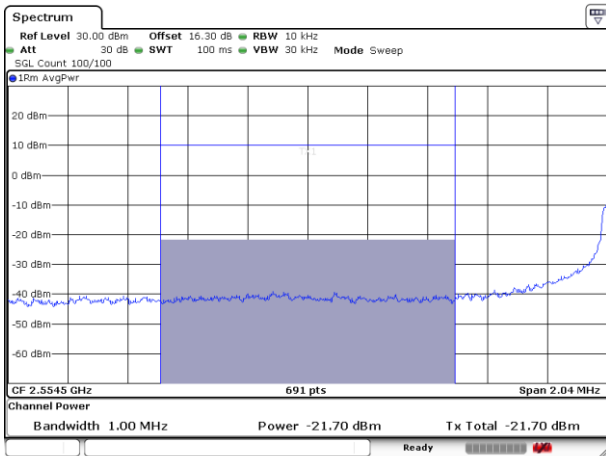
Date: 15. DEC. 2020 11:26:29

Highest Band Edge / Full RB



Date: 15. DEC. 2020 11:38:41

Channel Power -21.70dBm < -10dBm (Pass)

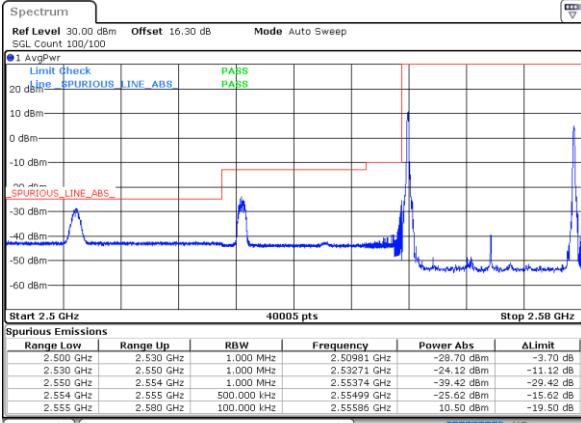




LTE Band 41C / 15MHz+10MHz

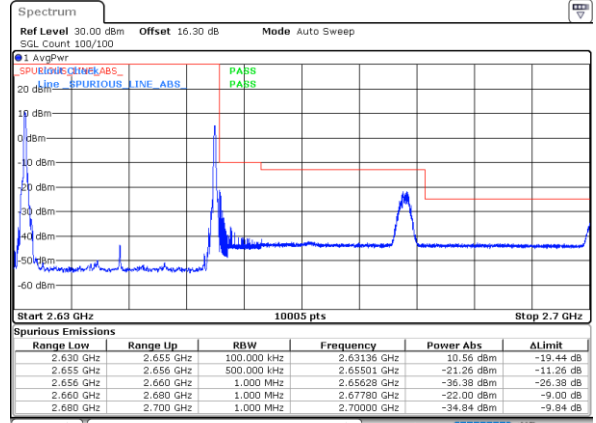
QPSK

Lowest Band Edge / 1RB0 and 1RB49



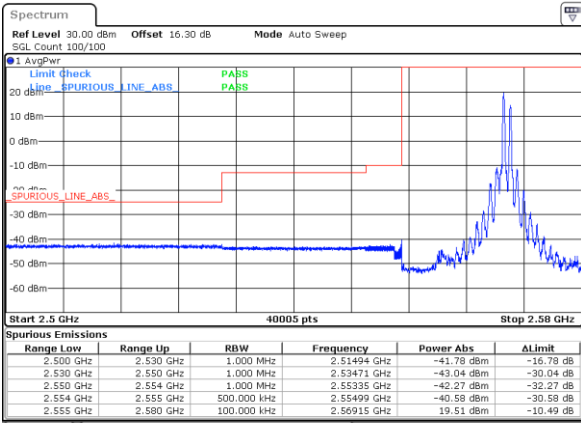
Date: 15. DEC. 2020 11:08:55

Highest Band Edge / 1RB0 and 1RB49



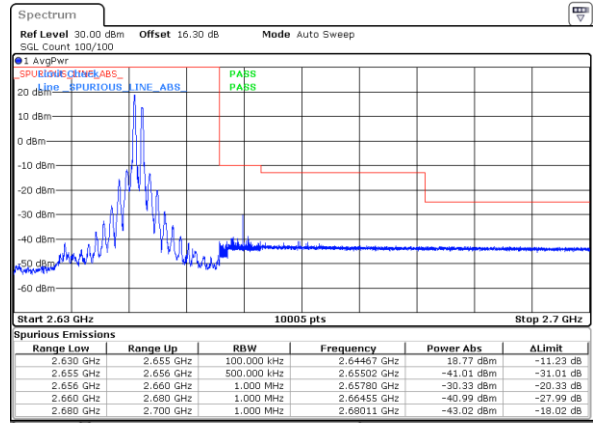
Date: 15. DEC. 2020 11:19:26

Lowest Band Edge / 1RB74 and 1RB0



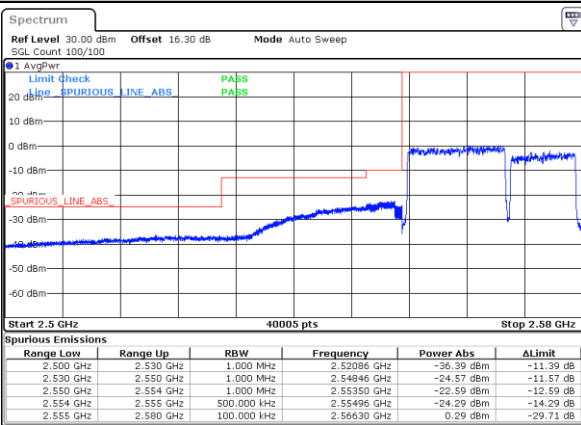
Date: 15. DEC. 2020 11:09:27

Highest Band Edge / 1RB74 and 1RB0



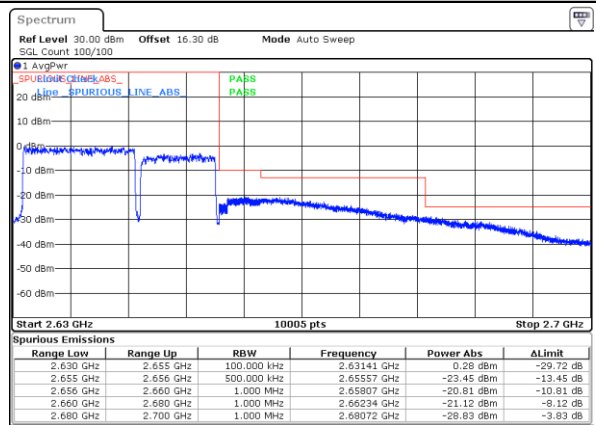
Date: 15. DEC. 2020 11:22:04

Lowest Band Edge / Full RB



Date: 15. DEC. 2020 11:06:12

Highest Band Edge / Full RB



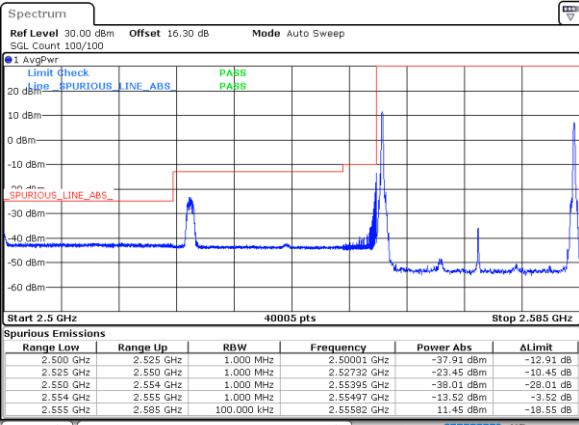
Date: 15. DEC. 2020 11:18:54



LTE Band 41C / 15MHz+15MHz

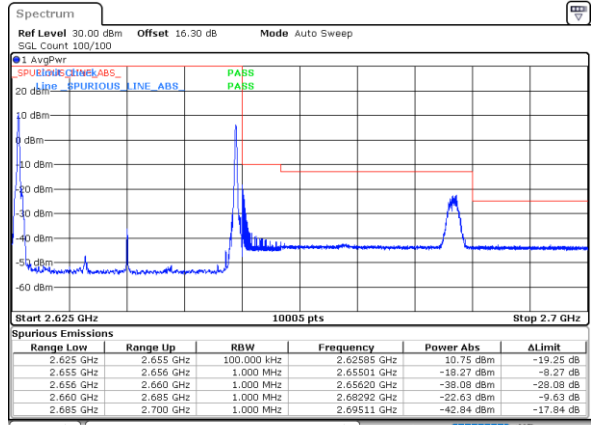
QPSK

Lowest Band Edge / 1RB0 and 1RB74



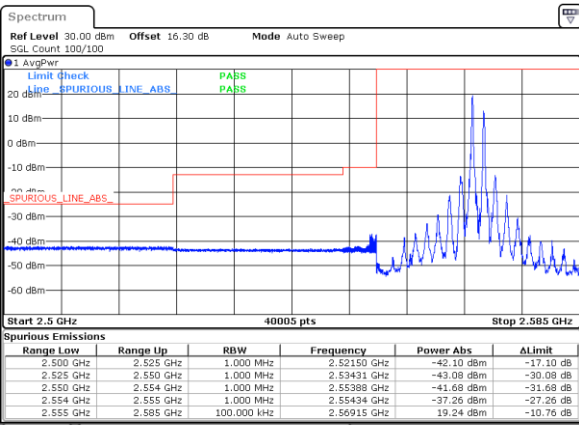
Date: 15. DEC. 2020 18:58:44

Highest Band Edge / 1RB0 and 1RB74



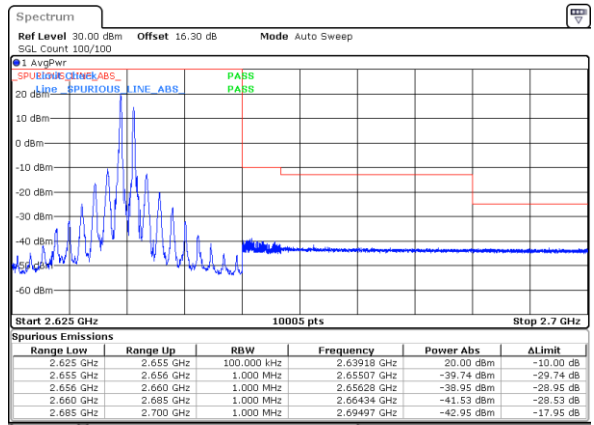
Date: 15. DEC. 2020 19:19:45

Lowest Band Edge / 1RB74 and 1RB0



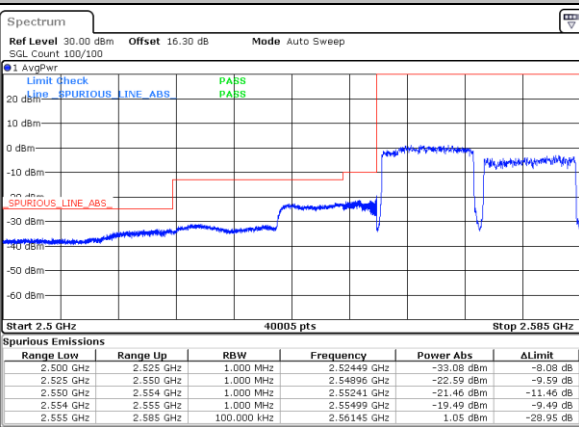
Date: 15. DEC. 2020 18:59:58

Highest Band Edge / 1RB74 and 1RB0



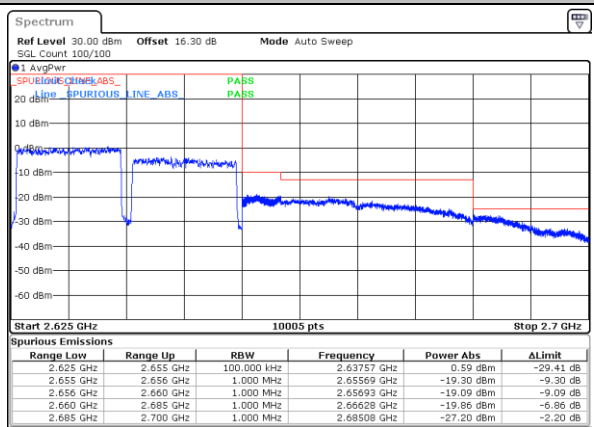
Date: 15. DEC. 2020 19:25:57

Lowest Band Edge / Full RB



Date: 15. DEC. 2020 18:52:27

Highest Band Edge / Full RB



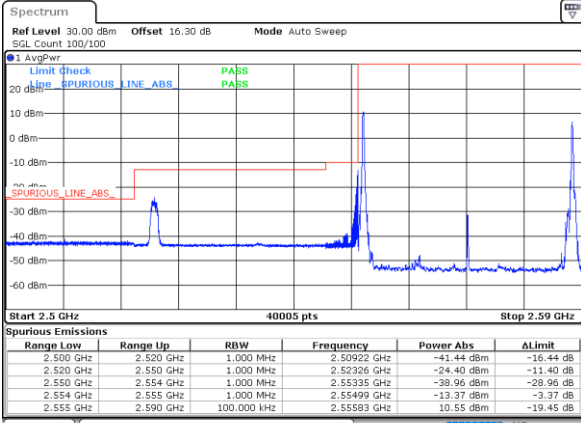
Date: 15. DEC. 2020 19:18:30



LTE Band 41C / 15MHz+20MHz

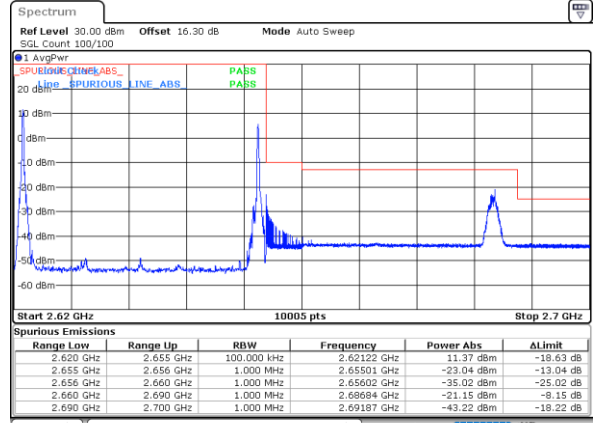
QPSK

Lowest Band Edge / 1RB0 and 1RB9



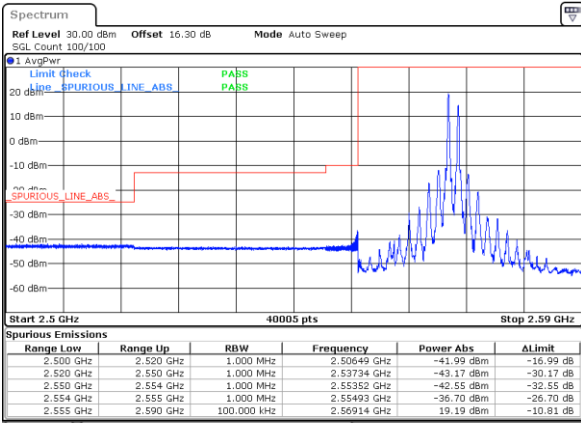
Date: 15. DEC. 2020 19:39:03

Highest Band Edge / 1RB0 and 1RB9



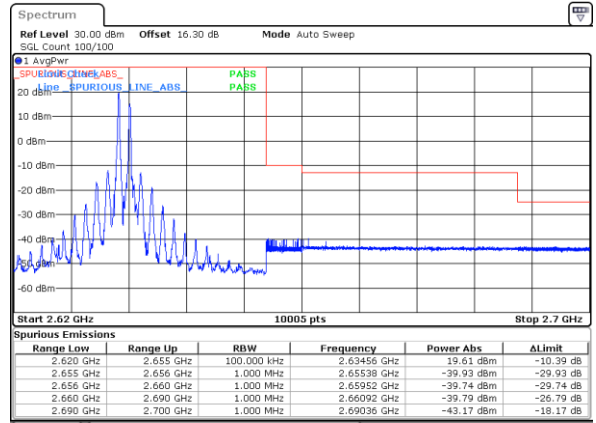
Date: 15. DEC. 2020 19:55:44

Lowest Band Edge / 1RB74 and 1RB0



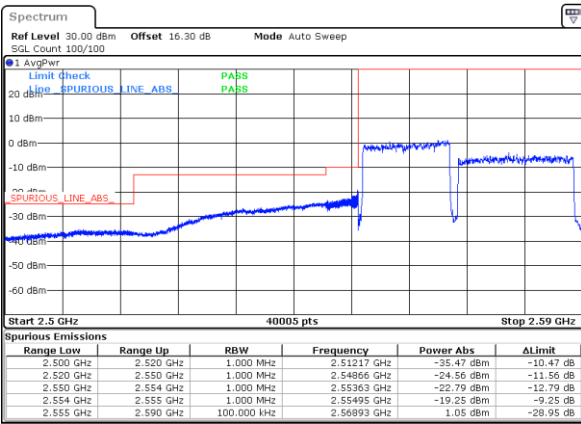
Date: 15. DEC. 2020 19:40:15

Highest Band Edge / 1RB74 and 1RB0



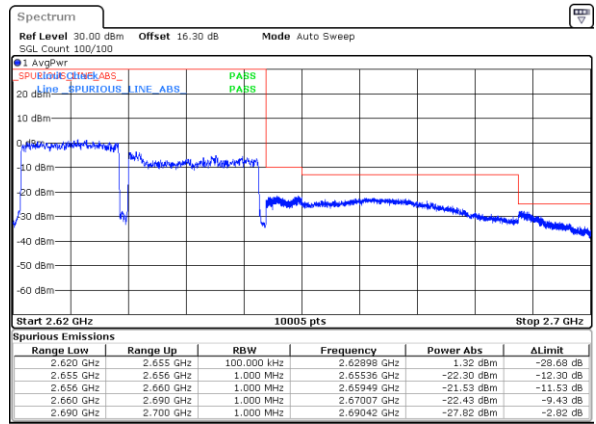
Date: 15. DEC. 2020 20:01:57

Lowest Band Edge / Full RB



Date: 15. DEC. 2020 19:32:44

Highest Band Edge / Full RB



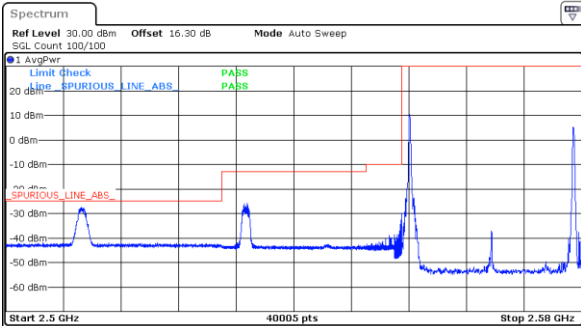
Date: 15. DEC. 2020 19:54:30



LTE Band 41C / 20MHz+5MHz

QPSK

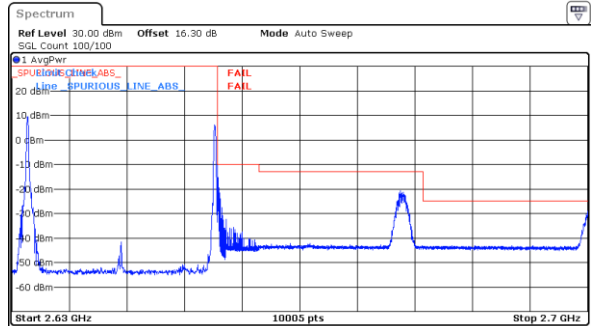
Lowest Band Edge / 1RB0 and 1RB24



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.500 GHz	2.530 GHz	1.000 MHz	2.51040 GHz	-27.55 dBm	-2.55 dB
2.530 GHz	2.550 GHz	1.000 MHz	2.53351 GHz	-25.74 dBm	-12.74 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55394 GHz	-38.76 dBm	-28.76 dB
2.554 GHz	2.555 GHz	500.000 kHz	2.55499 GHz	-30.02 dBm	-20.02 dB
2.555 GHz	2.580 GHz	100.000 kHz	2.55611 GHz	10.23 dBm	-19.77 dB

Date: 15, DEC, 2020 10:27:24

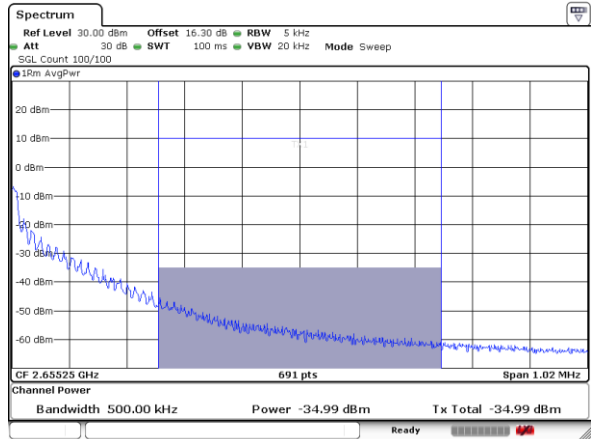
Highest Band Edge / 1RB0 and 1RB24



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.630 GHz	2.655 GHz	100.000 kHz	2.63191 GHz	9.43 dBm	-20.57 dB
2.655 GHz	2.656 GHz	500.000 kHz	2.65500 GHz*	-6.79 dBm*	-3.21 dB*
2.656 GHz	2.660 GHz	1.000 MHz	2.65602 GHz	-32.35 dBm	-22.35 dB
2.660 GHz	2.680 GHz	1.000 MHz	2.67726 GHz	-20.86 dBm	-7.86 dB
2.680 GHz	2.700 GHz	1.000 MHz	2.70000 GHz	-29.25 dBm	-4.25 dB

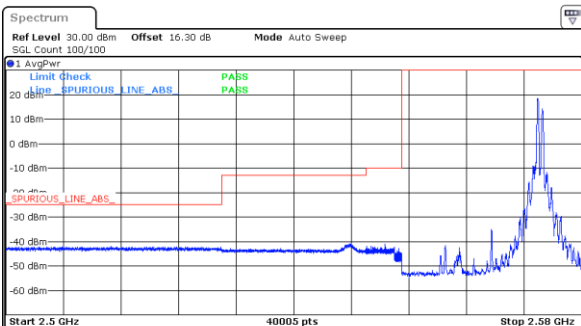
Date: 15, DEC, 2020 10:39:06

Channel Power -34.99dBm < -10dBm (Pass)



Date: 15, DEC, 2020 23:40:45

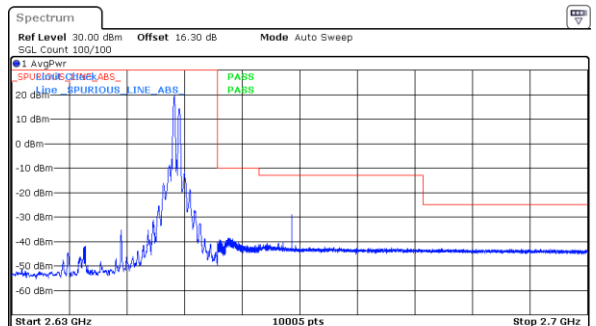
Lowest Band Edge / 1RB99 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.500 GHz	2.530 GHz	1.000 MHz	2.51457 GHz	-42.03 dBm	-17.03 dB
2.530 GHz	2.550 GHz	1.000 MHz	2.54796 GHz	-40.88 dBm	-27.88 dB
2.550 GHz	2.554 GHz	1.000 MHz	2.55265 GHz	-40.96 dBm	-30.96 dB
2.554 GHz	2.555 GHz	500.000 kHz	2.55453 GHz	-42.96 dBm	-32.96 dB
2.555 GHz	2.580 GHz	100.000 kHz	2.57387 GHz	18.46 dBm	-11.54 dB

Date: 15, DEC, 2020 10:27:56

Highest Band Edge / 1RB99 and 1RB0

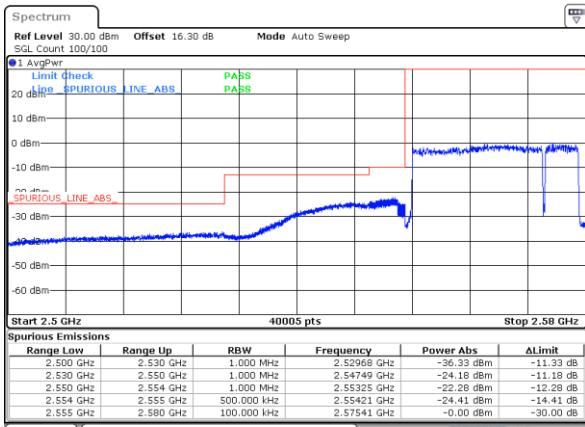


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.630 GHz	2.655 GHz	100.000 kHz	2.64973 GHz	19.53 dBm	-10.47 dB
2.655 GHz	2.656 GHz	500.000 kHz	2.65525 GHz	-39.35 dBm	-29.35 dB
2.656 GHz	2.660 GHz	1.000 MHz	2.65639 GHz	-38.69 dBm	-28.69 dB
2.660 GHz	2.680 GHz	1.000 MHz	2.66399 GHz	-29.13 dBm	-16.13 dB
2.680 GHz	2.700 GHz	1.000 MHz	2.68217 GHz	-42.97 dBm	-17.97 dB

Date: 15, DEC, 2020 10:41:44

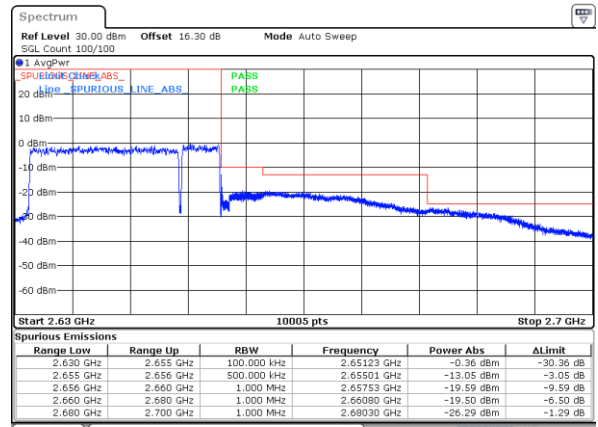


Lowest Band Edge / Full RB



Date: 15, DEC, 2020 10:24:40

Highest Band Edge / Full RB



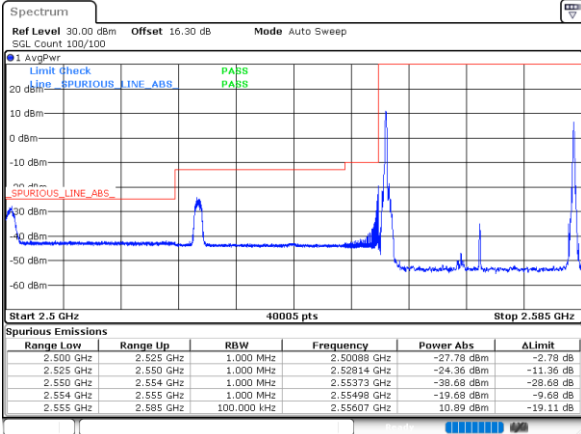
Date: 15, DEC, 2020 10:38:35



LTE Band 41C / 20MHz+10MHz

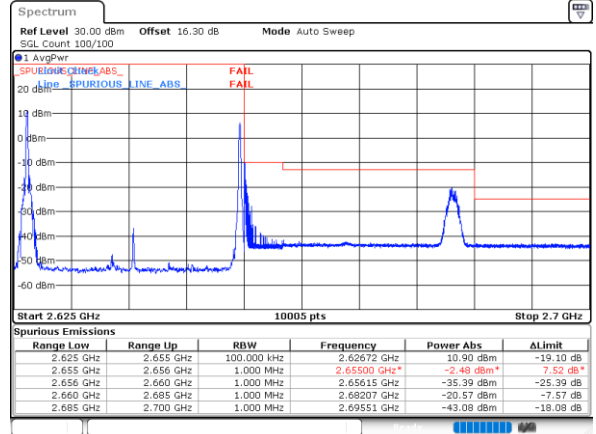
QPSK

Lowest Band Edge / 1RB0 and 1RB49



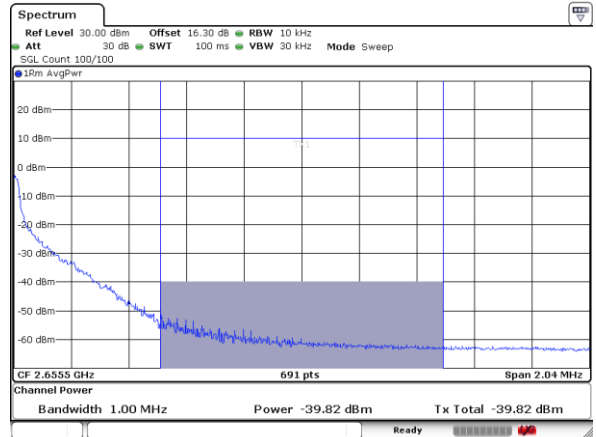
Date: 15, DEC, 2020 20:13:14

Highest Band Edge / 1RB0 and 1RB49



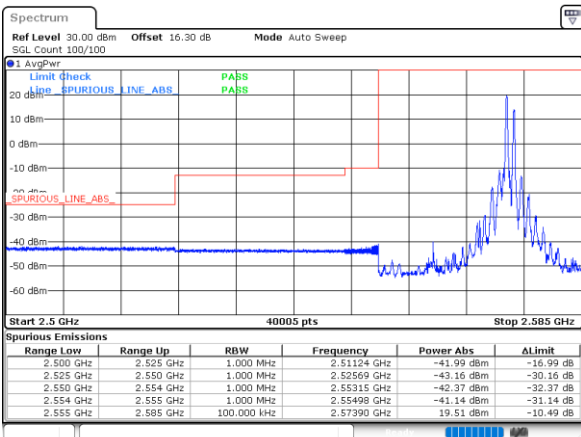
Date: 15, DEC, 2020 20:31:12

Channel Power -39.82dBm < -10dBm (Pass)



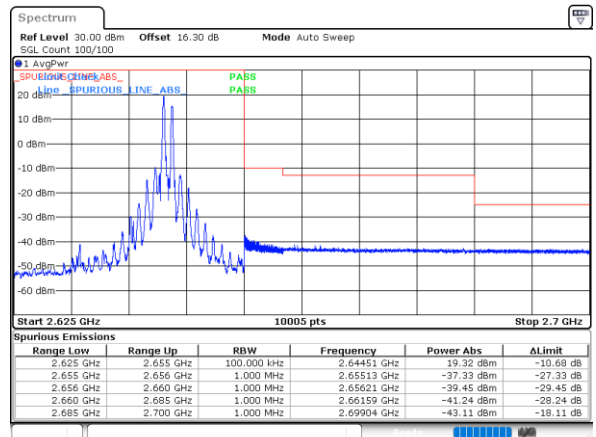
Date: 15, DEC, 2020 23:46:44

Lowest Band Edge / 1RB99 and 1RB0

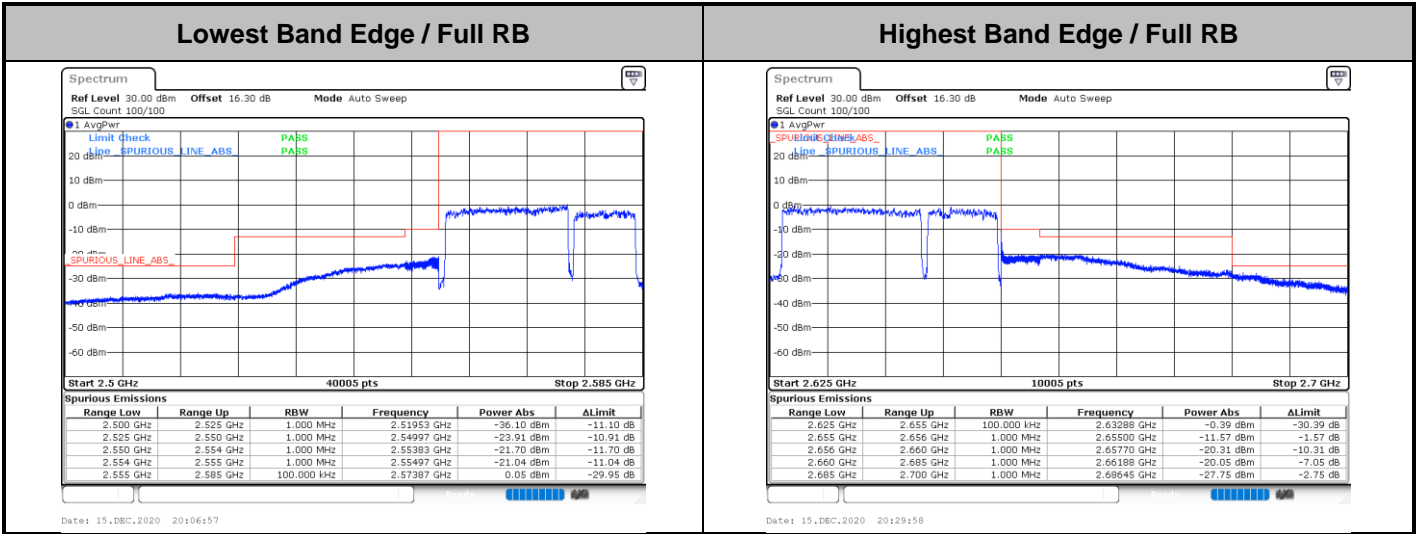


Date: 15, DEC, 2020 20:14:28

Highest Band Edge / 1RB99 and 1RB0



Date: 15, DEC, 2020 20:37:25

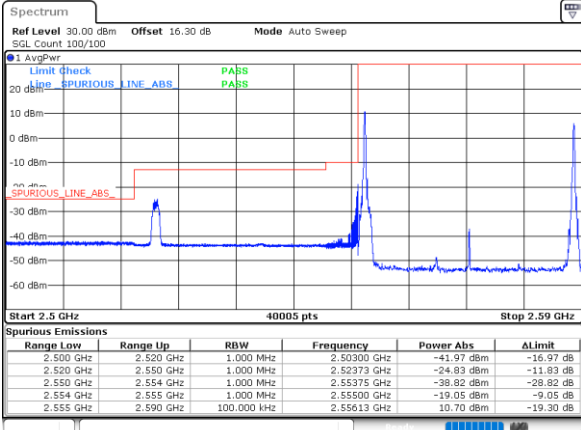




LTE Band 41C / 20MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74



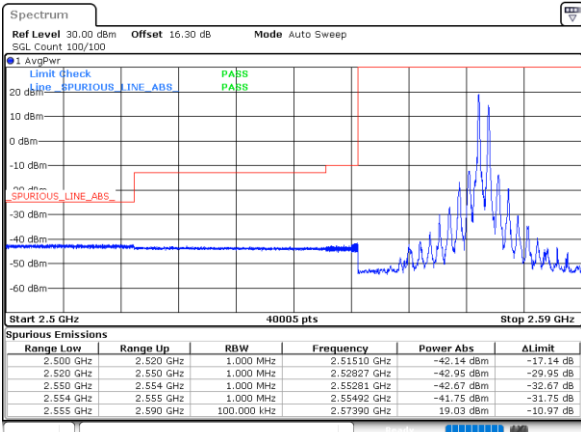
Date: 15. DEC. 2020 20:57:56

Highest Band Edge / 1RB0 and 1RB74



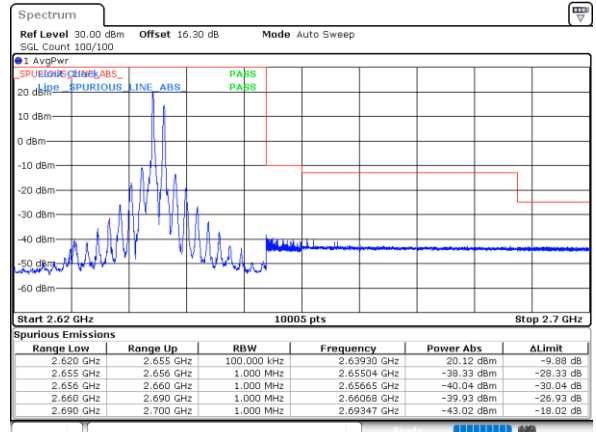
Date: 15. DEC. 2020 21:23:10

Lowest Band Edge / 1RB99 and 1RB0



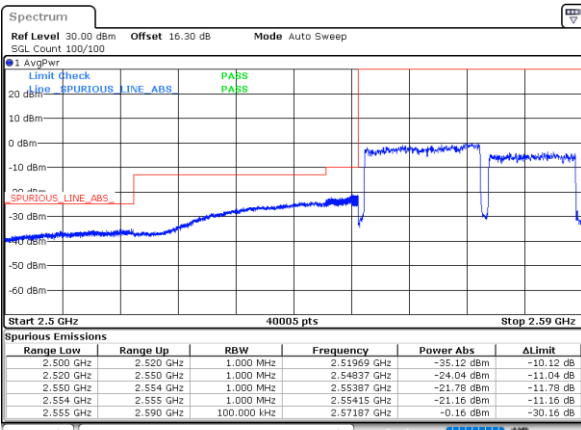
Date: 15. DEC. 2020 20:59:10

Highest Band Edge / 1RB99 and 1RB0



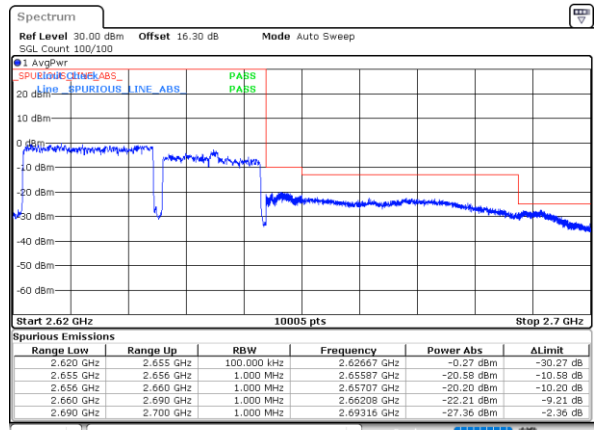
Date: 15. DEC. 2020 21:29:19

Lowest Band Edge / Full RB



Date: 15. DEC. 2020 20:51:39

Highest Band Edge / Full RB



Date: 15. DEC. 2020 21:21:56