



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0040	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0004	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0059	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

- 1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.60 V. ; Maximum Voltage = 4.45 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7C

26dB Bandwidth

Mode	LTE Band 7C : 26dB BW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.38	30.51	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.33	34.97	39.88	

Mode	LTE Band 7C : 26dB BW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.85	25.28	30.99	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.15	35.04	39.80	

Mode	LTE Band 7C : 26dB BW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.57	30.75	35.04
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.09	34.90	39.72	

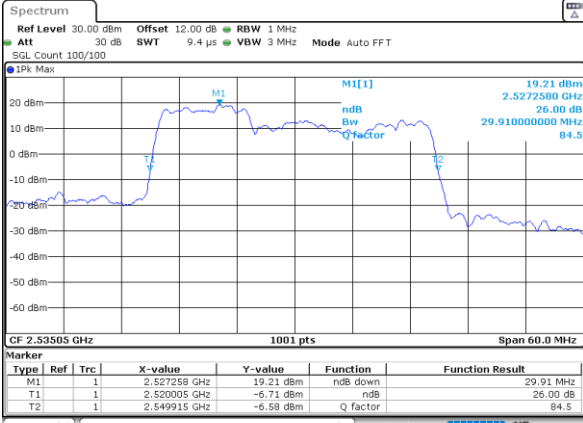
Mode	LTE Band 7C : 26dB BW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	29.91	25.33	30.57	34.97
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	30.21	35.32	39.88	



LTE Band 7C

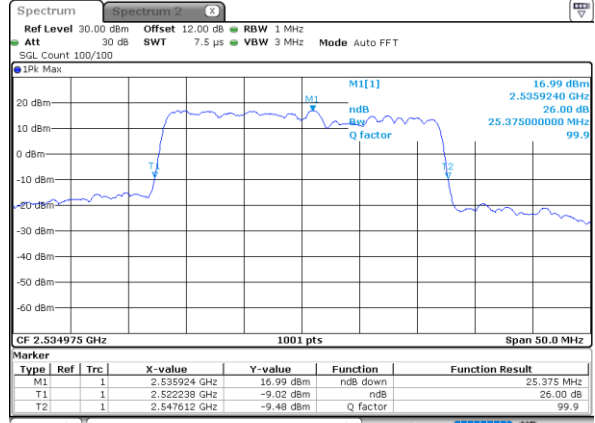
QPSK

Middle Channel / 10MHz+20MHz



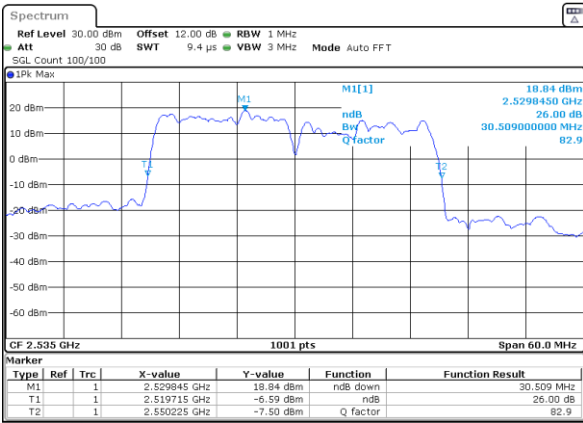
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Middle Channel / 15MHz+10MHz



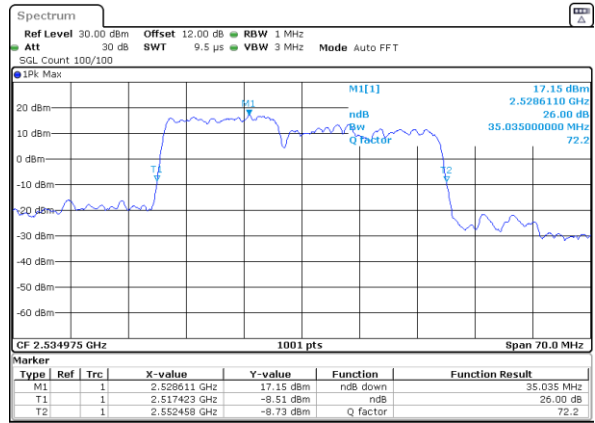
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Middle Channel / 15MHz+15MHz



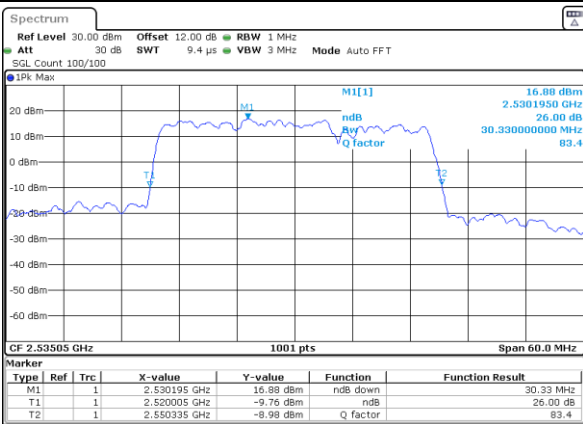
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Middle Channel / 15MHz+20MHz



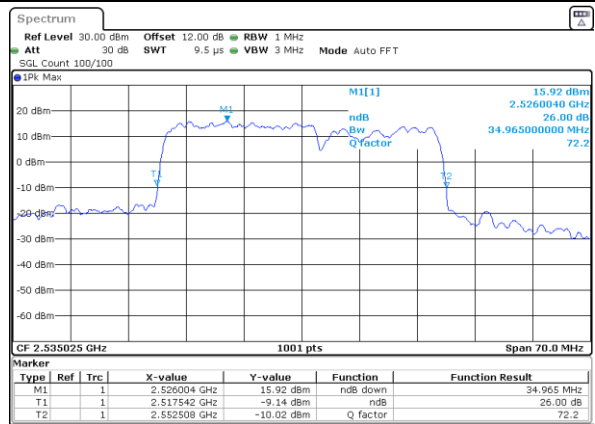
Date: 19_OCT.2022 03:23:10

Middle Channel / 20MHz+10MHz



Date: 19_OCT.2022 01:44:55

Middle Channel / 20MHz+15MHz



Date: 19_OCT.2022 04:11:46

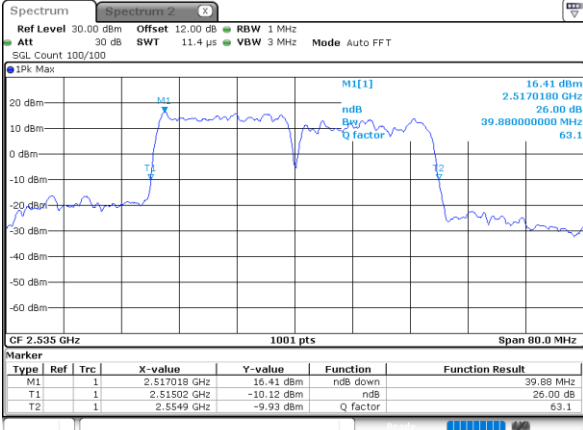


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



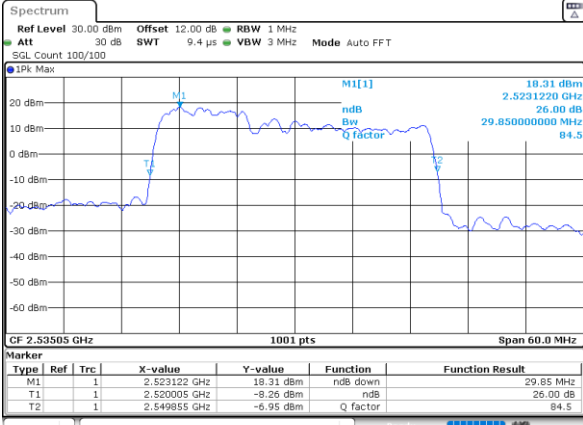
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LTE Band 7C

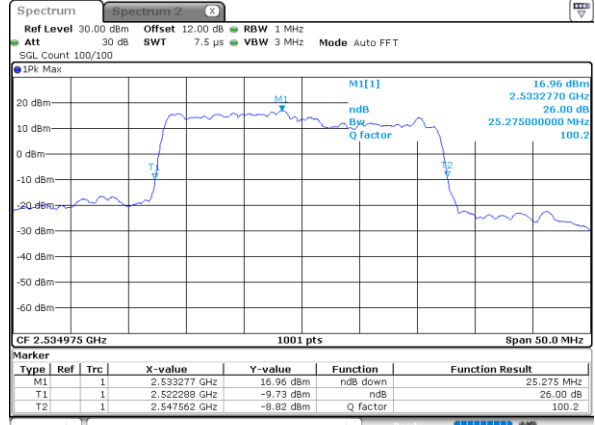
16QAM

Middle Channel / 10MHz+20MHz



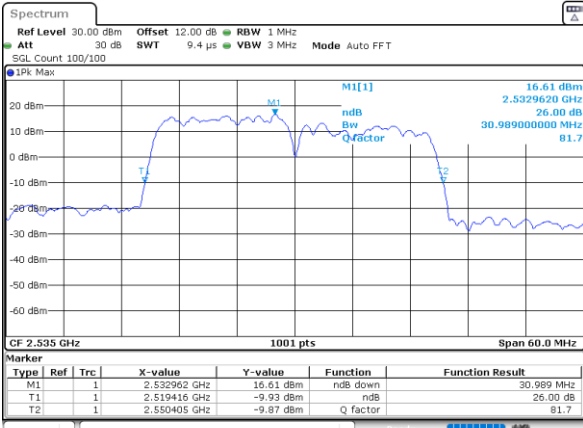
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Middle Channel / 15MHz+10MHz



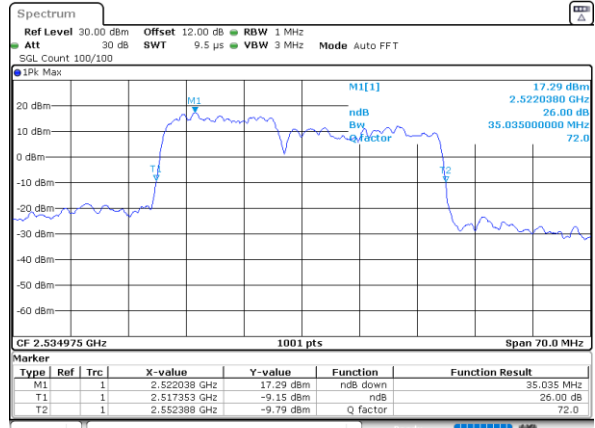
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Middle Channel / 15MHz+15MHz



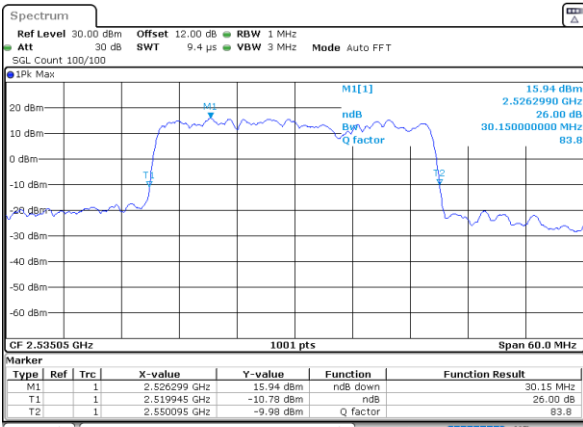
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Middle Channel / 15MHz+20MHz



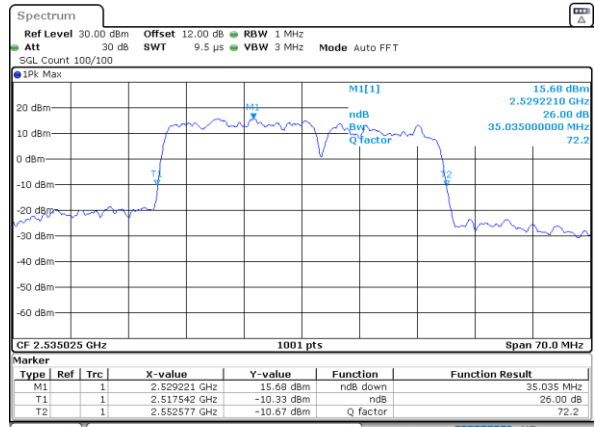
Date: 19_OCT.2022 03:22:38

Middle Channel / 20MHz+10MHz



Date: 19_OCT.2022 01:44:23

Middle Channel / 20MHz+15MHz



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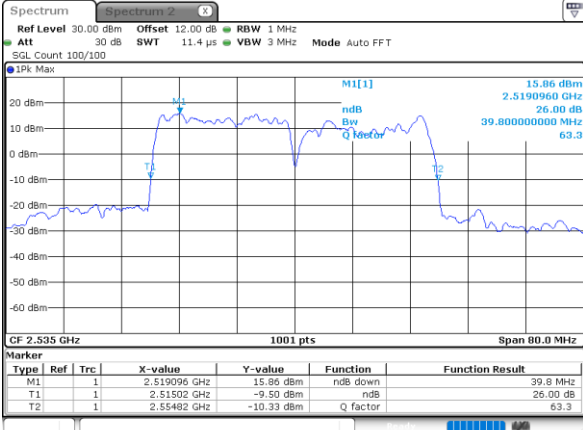


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



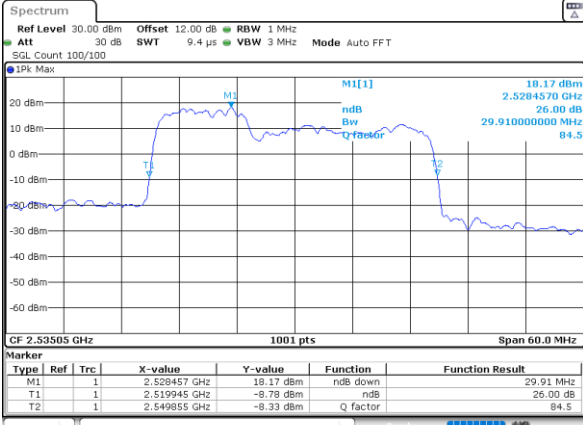
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LTE Band 7C

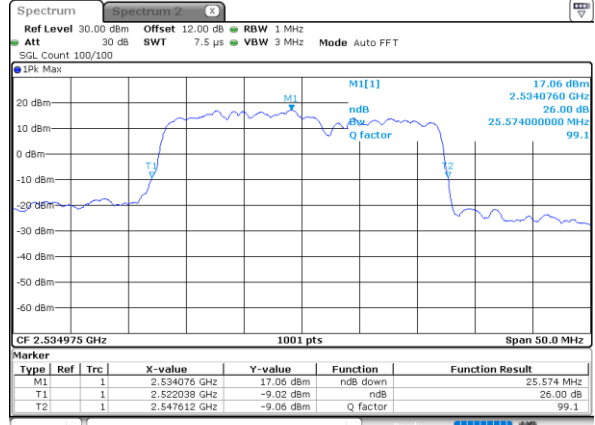
64QAM

Middle Channel / 10MHz+20MHz



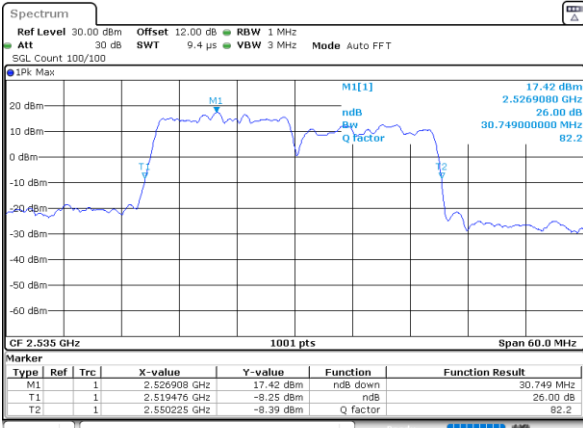
Date: 19.OCT.2022 00:55:56

Middle Channel / 15MHz+10MHz



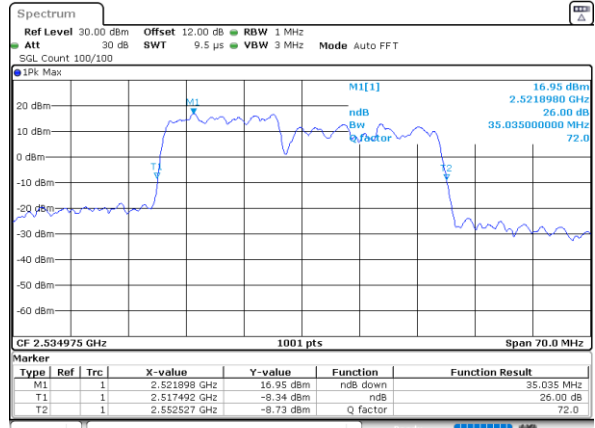
Date: 19.OCT.2022 23:19:30

Middle Channel / 15MHz+15MHz



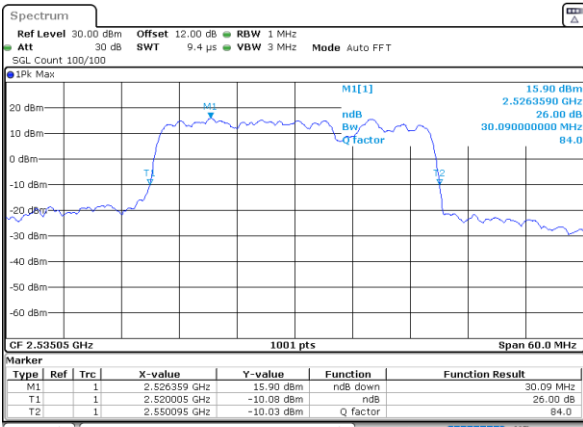
Date: 19.OCT.2022 02:29:02

Middle Channel / 15MHz+20MHz



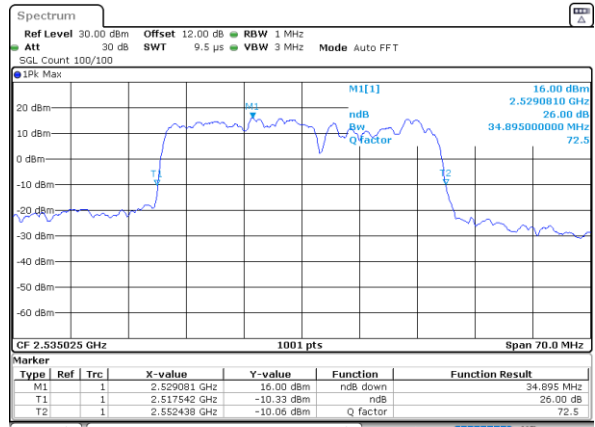
Date: 19.OCT.2022 03:22:05

Middle Channel / 20MHz+10MHz



Date: 19.OCT.2022 01:43:50

Middle Channel / 20MHz+15MHz



Date: 19.OCT.2022 04:10:41

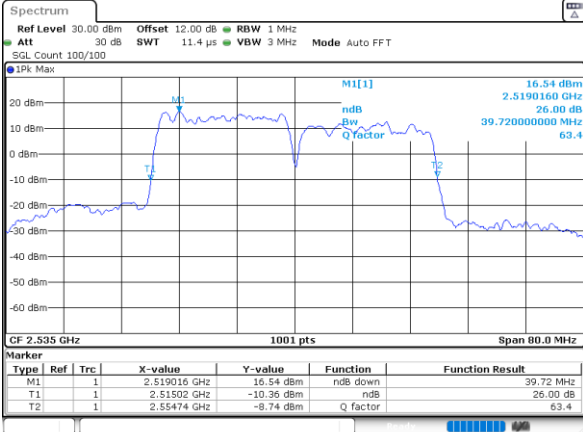


LTE Band 7C

64QAM

Middle Channel / 20MHz+20MHz

N/A



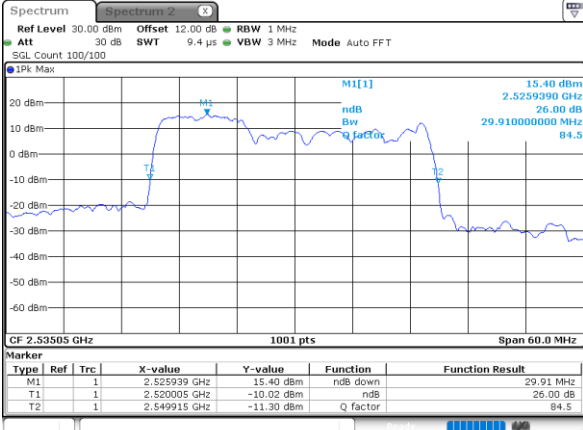
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LTE Band 7C

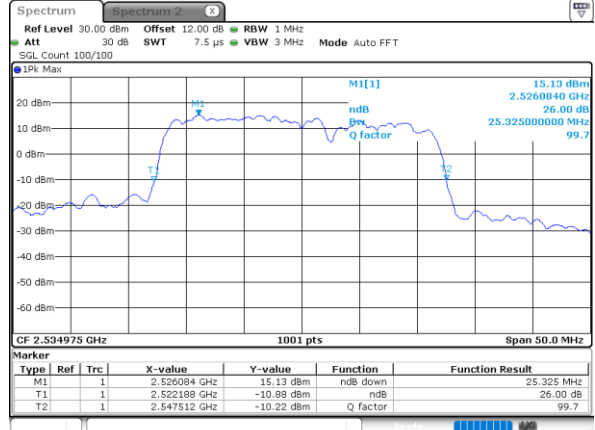
256QAM

Middle Channel / 10MHz+20MHz



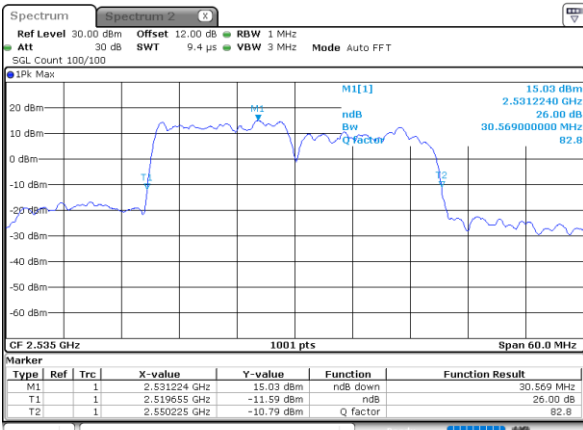
Date: 19_OCT.2022 23:33:25

Middle Channel / 15MHz+10MHz



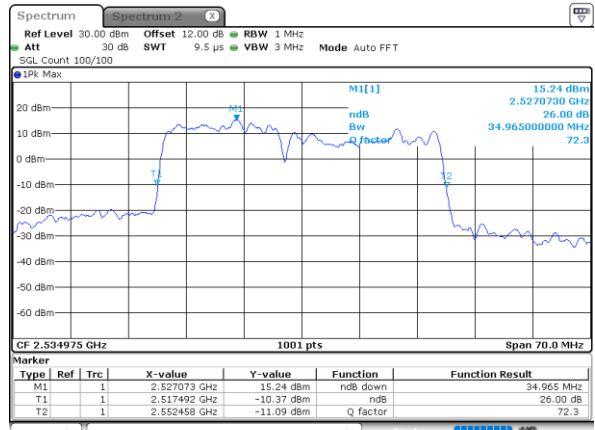
Date: 20_OCT.2022 00:51:37

Middle Channel / 15MHz+15MHz



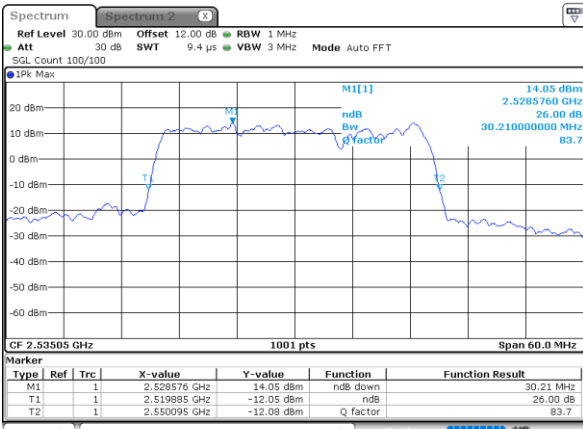
Date: 19_OCT.2022 23:53:58

Middle Channel / 15MHz+20MHz



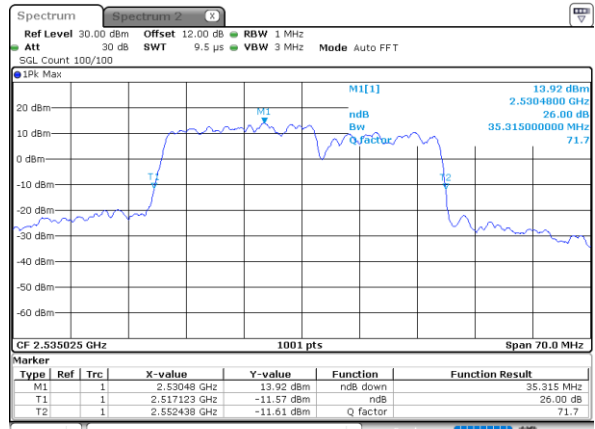
Date: 20_OCT.2022 00:11:34

Middle Channel / 20MHz+10MHz



Date: 19_OCT.2022 23:42:58

Middle Channel / 20MHz+15MHz



Date: 20_OCT.2022 00:24:27

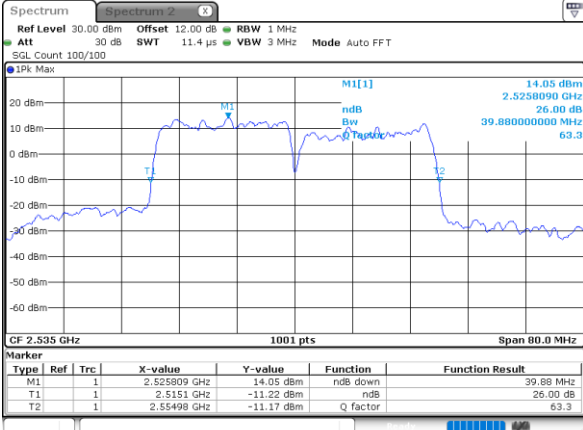


LTE Band 7C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 20_OCT_2022 00:38:04



Occupied Bandwidth

Mode	LTE Band 7C : 99%OBW(MHz)			
QPSK				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.05	23.53	28.59	32.94
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	33.08	37.64	

Mode	LTE Band 7C : 99%OBW(MHz)			
16QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.11	23.53	28.53	33.01
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	28.23	32.73	37.32	

Mode	LTE Band 7C : 99%OBW(MHz)			
64QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.05	23.43	28.71	32.87
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.99	32.80	37.80	

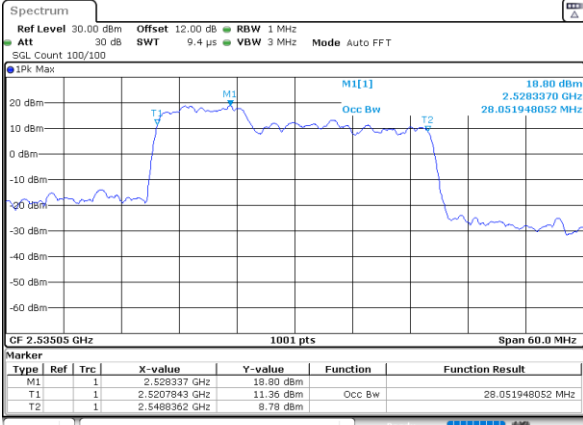
Mode	LTE Band 7C : 99%OBW(MHz)			
256QAM				
BW	10MHz+20MHz	15MHz+10MHz	15MHz+15MHz	15MHz+20MHz
Middle CH	28.11	23.33	28.65	32.80
BW	20MHz+10MHz	20MHz+15MHz	20MHz+20MHz	N/A
Middle CH	27.93	32.80	37.40	



LTE Band 7C

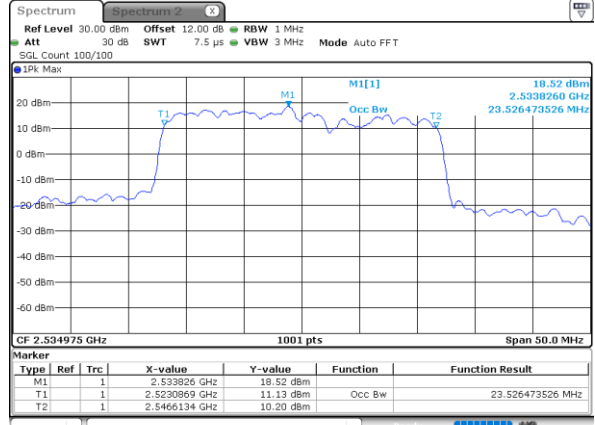
QPSK

Middle Channel / 10MHz+20MHz



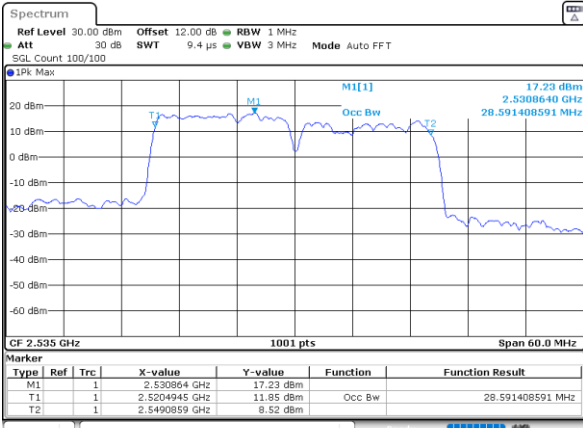
Date: 19_OCT.2022 00:50:54

Middle Channel / 15MHz+10MHz



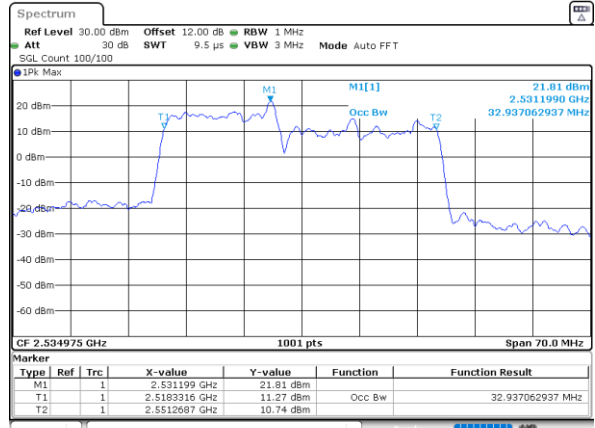
Date: 19_OCT.2022 22:05:32

Middle Channel / 15MHz+15MHz



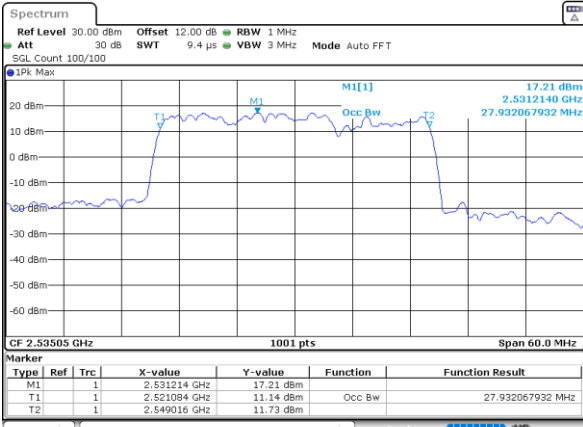
Date: 19_OCT.2022 02:24:28

Middle Channel / 15MHz+20MHz



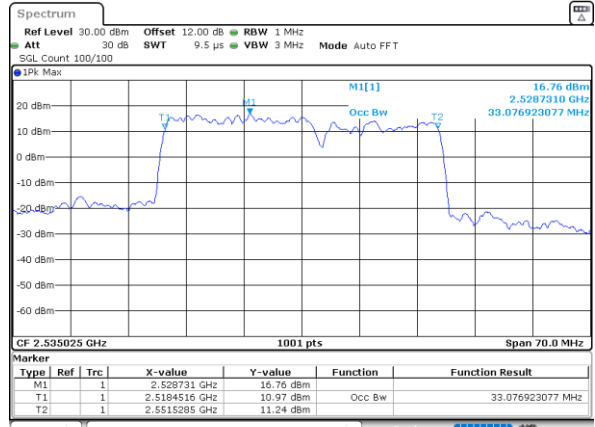
Date: 19_OCT.2022 03:17:10

Middle Channel / 20MHz+10MHz



Date: 19_OCT.2022 01:38:56

Middle Channel / 20MHz+15MHz



Date: 19_OCT.2022 04:05:46

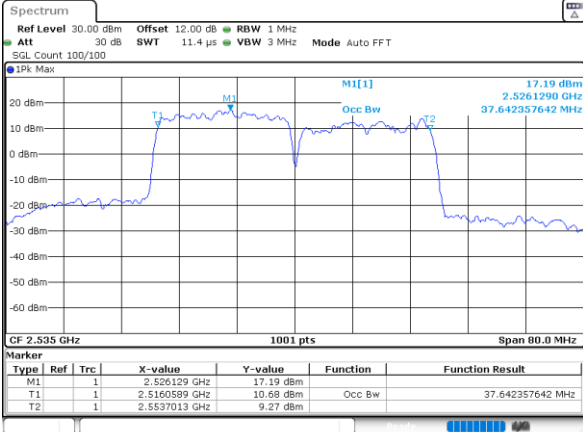


LTE Band 7C

QPSK

Middle Channel / 20MHz+20MHz

N/A



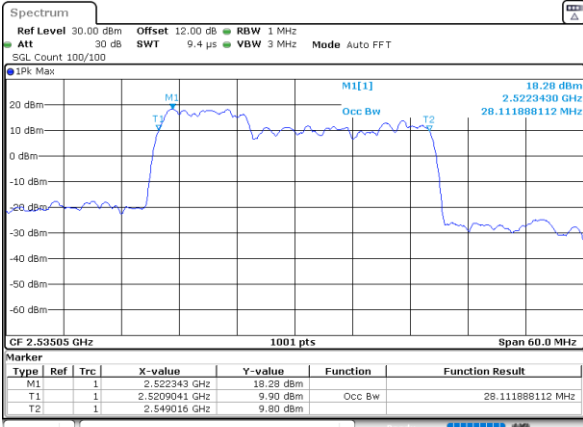
Date: 19_OCT_2022 04:52:00



LTE Band 7C

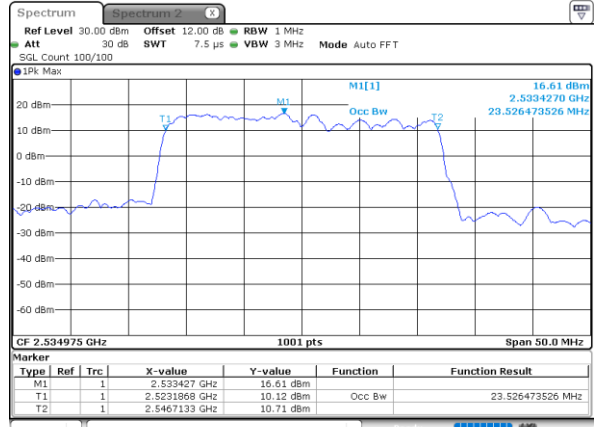
16QAM

Middle Channel / 10MHz+20MHz



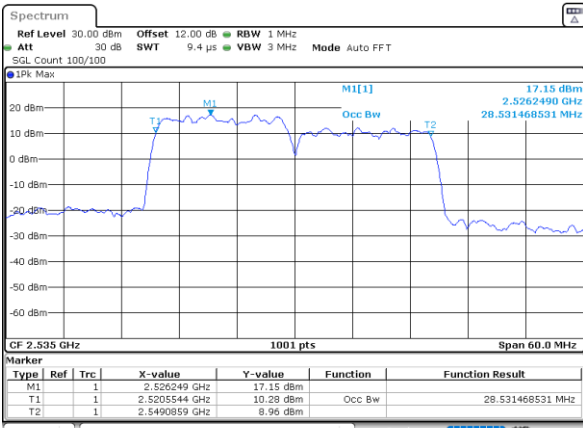
Date: 19_OCT.2022 00:53:45

Middle Channel / 15MHz+10MHz



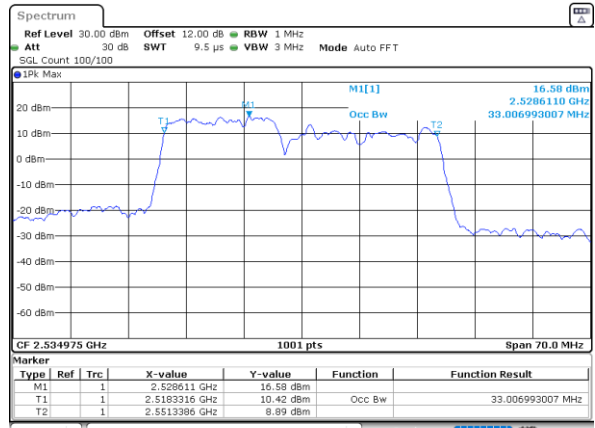
Date: 19_OCT.2022 23:18:25

Middle Channel / 15MHz+15MHz



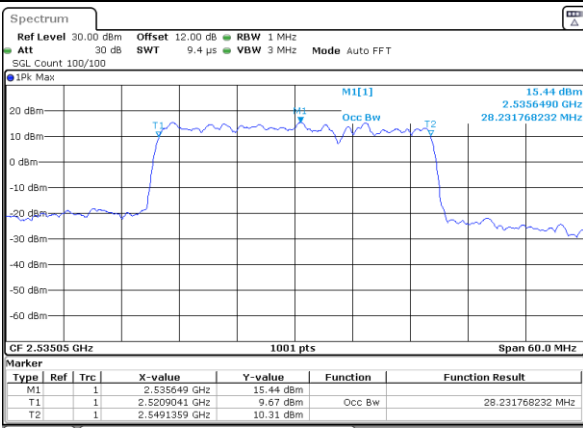
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Middle Channel / 15MHz+20MHz



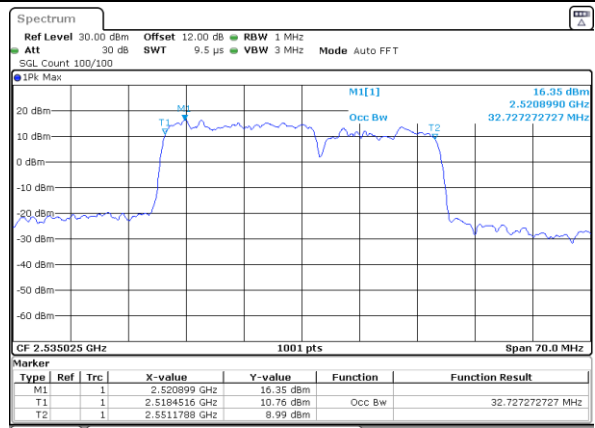
Date: 19_OCT.2022 03:19:54

Middle Channel / 20MHz+10MHz



Date: 19_OCT.2022 01:41:40

Middle Channel / 20MHz+15MHz



Date: 19_OCT.2022 04:08:30

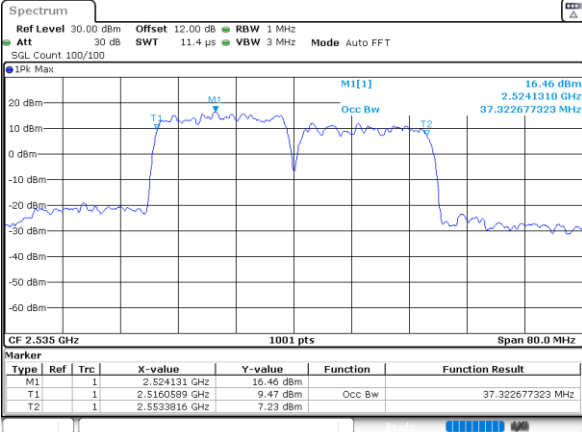


LTE Band 7C

16QAM

Middle Channel / 20MHz+20MHz

N/A



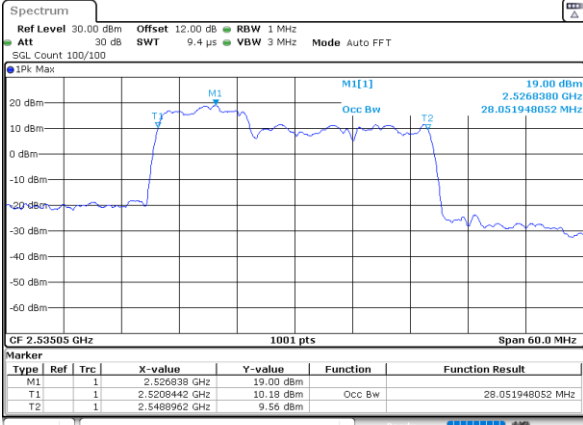
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LTE Band 7C

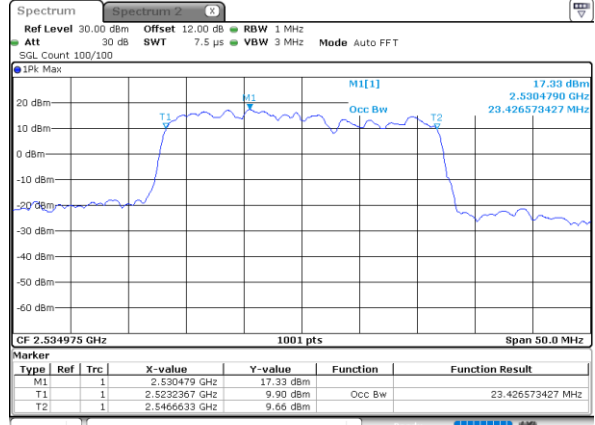
64QAM

Middle Channel / 10MHz+20MHz



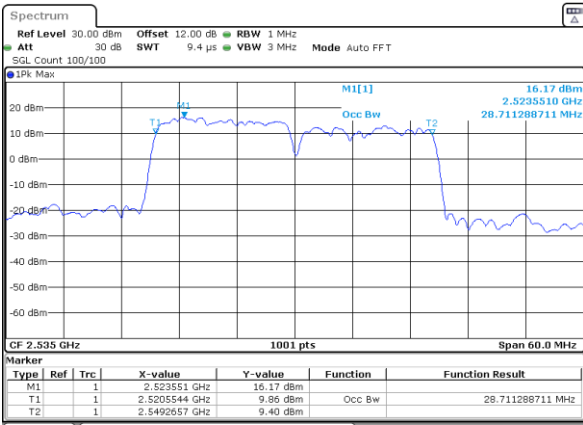
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Middle Channel / 15MHz+10MHz



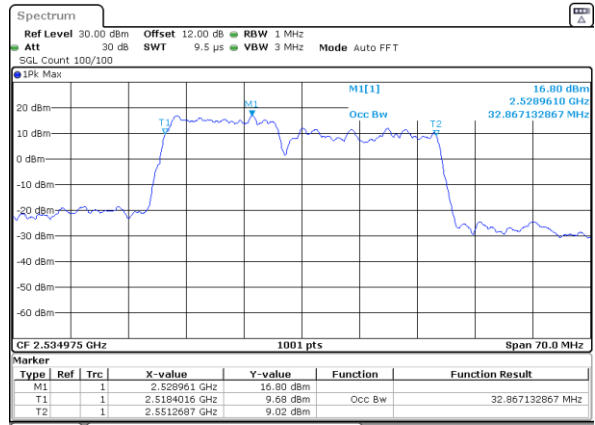
Date: 19_OCT.2022 23:18:58

Middle Channel / 15MHz+15MHz



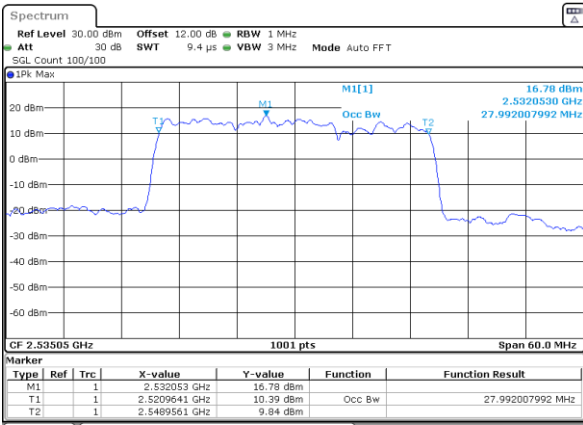
Date: 19_OCT.2022 02:27:30

Middle Channel / 15MHz+20MHz



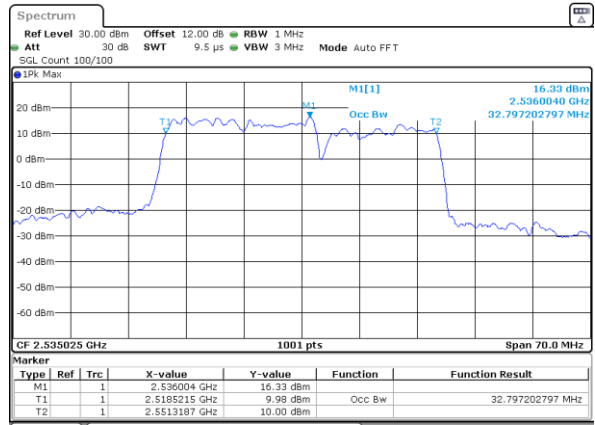
Date: 19_OCT.2022 03:20:27

Middle Channel / 20MHz+10MHz



Date: 19_OCT.2022 01:42:12

Middle Channel / 20MHz+15MHz



Date: 19_OCT.2022 04:10:03

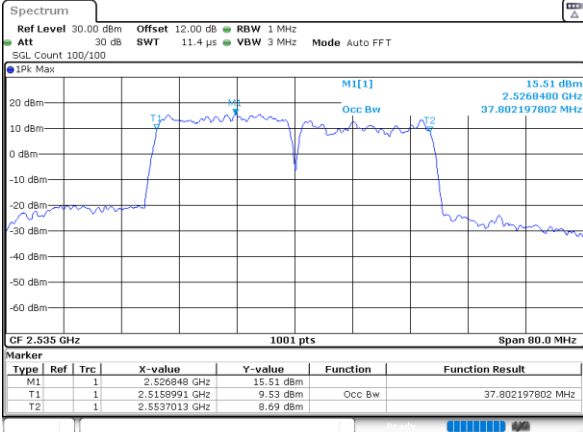


LTE Band 7C

64QAM

Middle Channel / 20MHz+20MHz

N/A



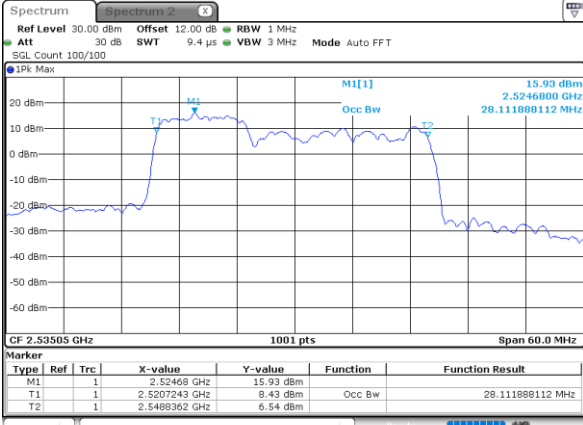
Date: 19_OCT_2022 04:55:01



LTE Band 7C

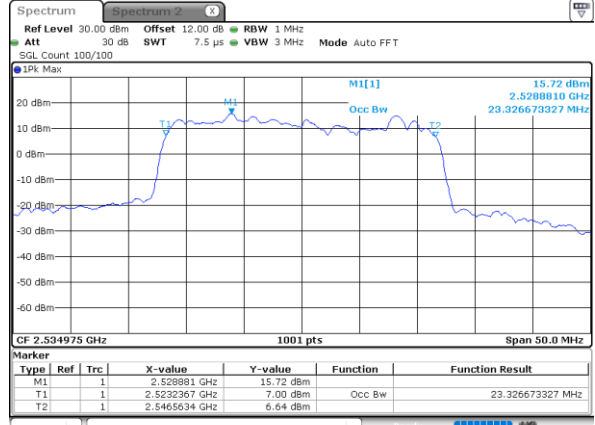
256QAM

Middle Channel / 10MHz+20MHz



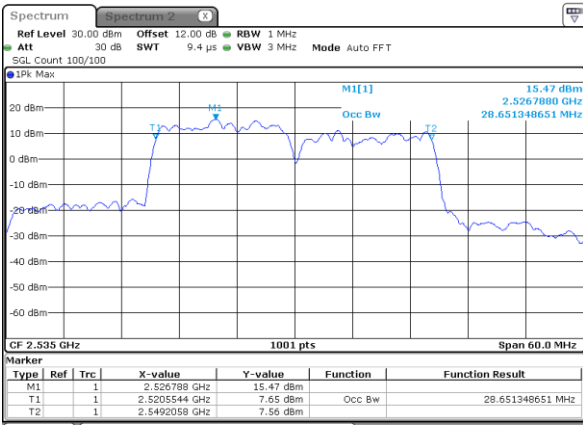
Date: 19_OCT.2022 23:32:20

Middle Channel / 15MHz+10MHz



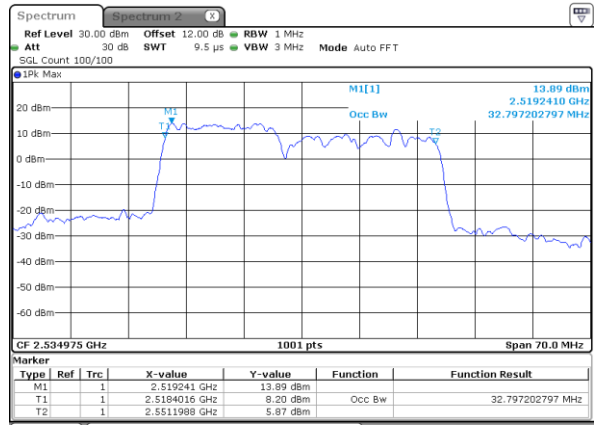
Date: 20_OCT.2022 00:49:59

Middle Channel / 15MHz+15MHz



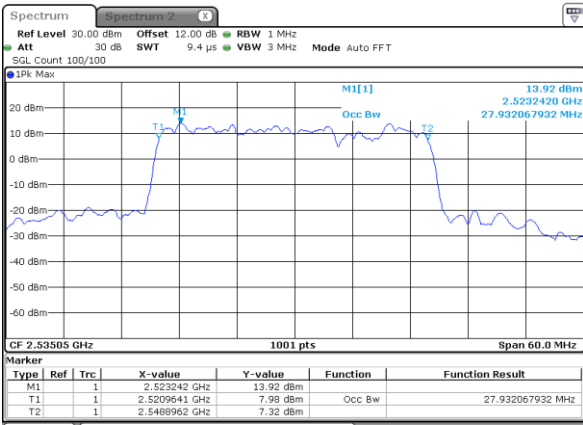
Date: 19_OCT.2022 23:53:28

Middle Channel / 15MHz+20MHz



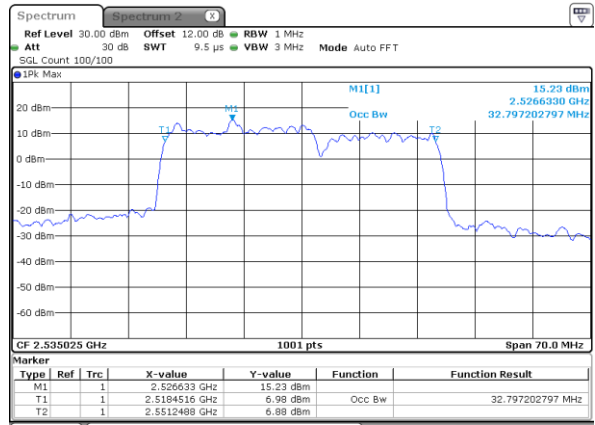
Date: 20_OCT.2022 00:10:56

Middle Channel / 20MHz+10MHz



Date: 19_OCT.2022 23:42:25

Middle Channel / 20MHz+15MHz



Date: 20_OCT.2022 00:22:48

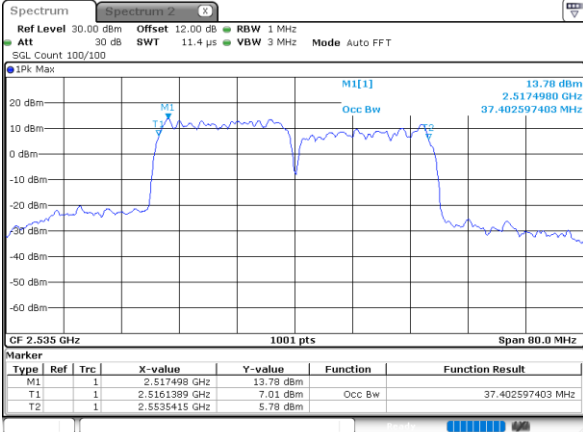


LTE Band 7C

256QAM

Middle Channel / 20MHz+20MHz

N/A



Date: 20_OCT_2022 00:36:33

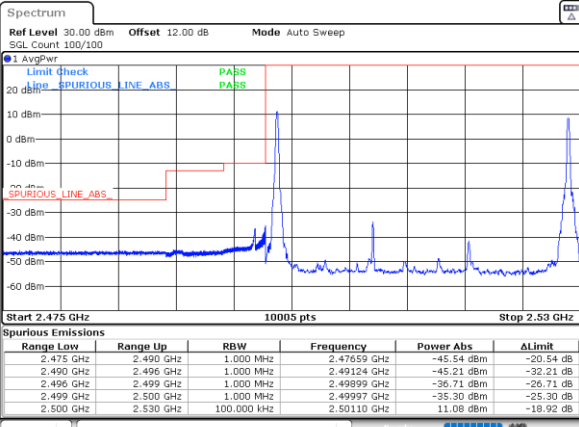


Conducted Band Edge

LTE Band 7C / 10MHz+20MHz

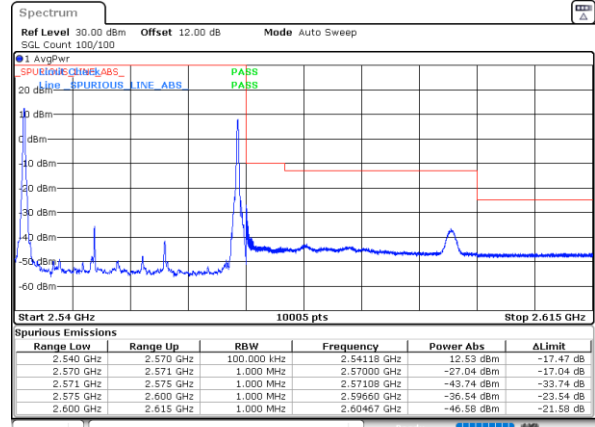
QPSK

Lowest Band Edge / 1RB0 and 1RB99



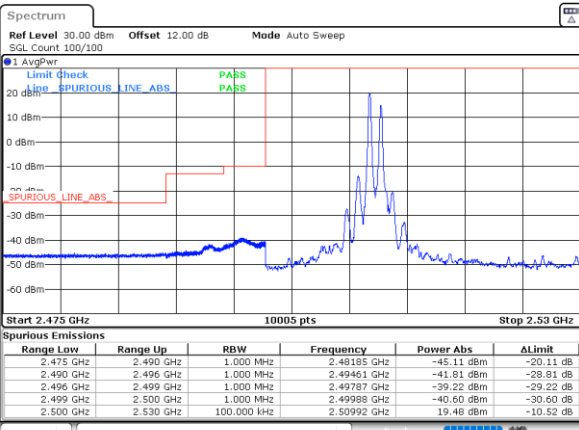
Date: 19.OCT.2022 00:43:14

Highest Band Edge / 1RB0 and 1RB99



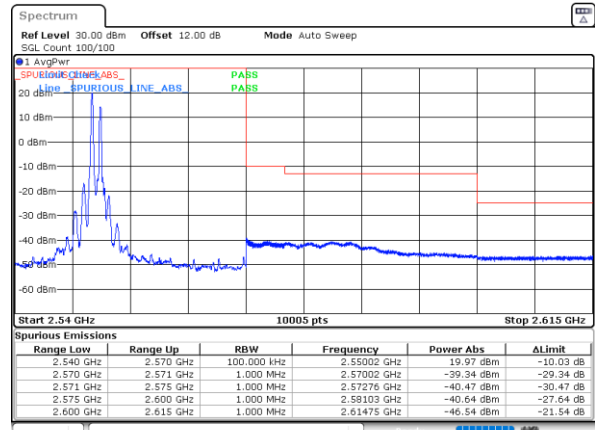
Date: 19.OCT.2022 00:21:37

Lowest Band Edge / 1RB49 and 1RB0



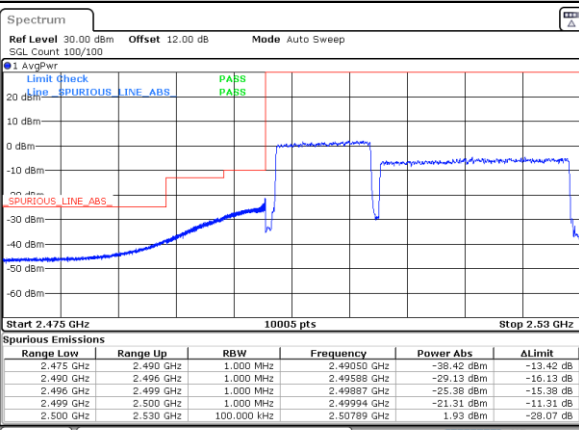
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Highest Band Edge / 1RB49 and 1RB0



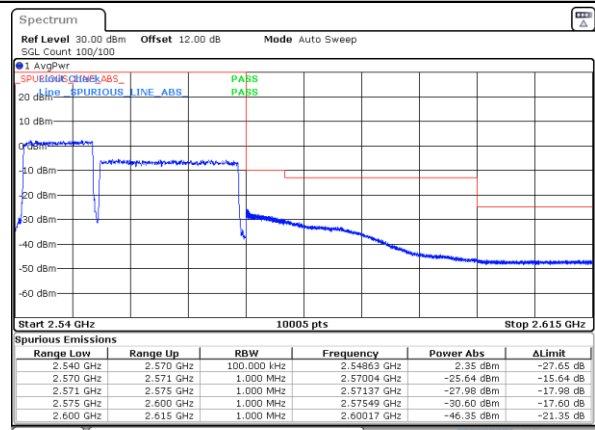
Date: 19.OCT.2022 00:21:37

Lowest Band Edge / Full RB



Date: 19.OCT.2022 00:37:11

Highest Band Edge / Full RB



Date: 19.OCT.2022 00:20:26

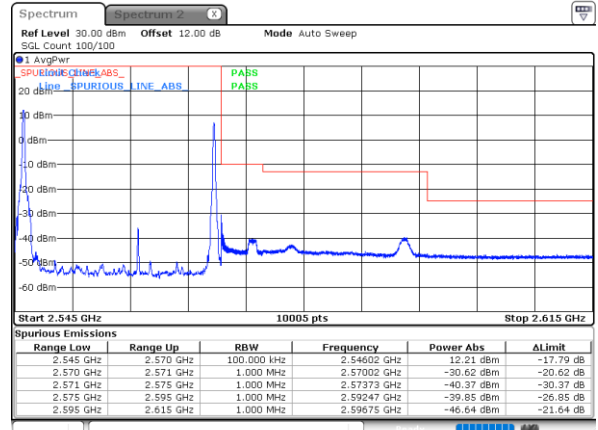
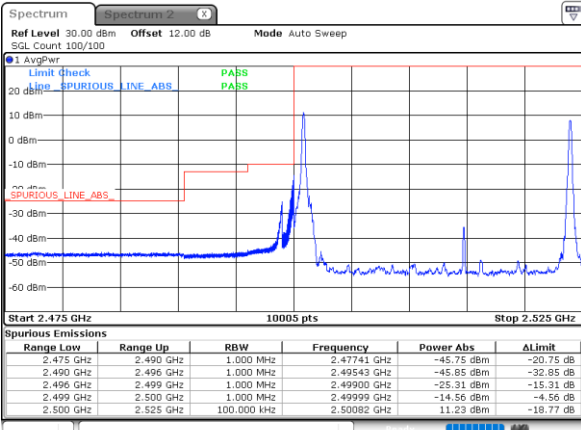


LTE Band 7C / 15MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

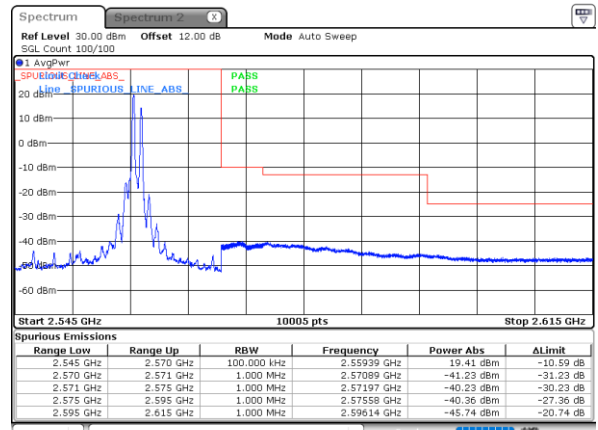
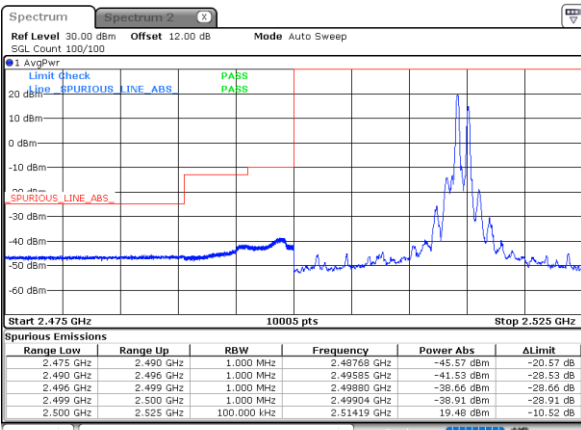


Date: 19.OCT.2022 21:47:34

Date: 19.OCT.2022 21:26:36

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

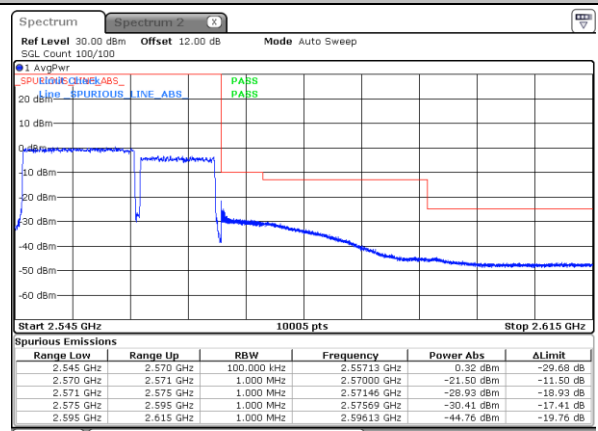
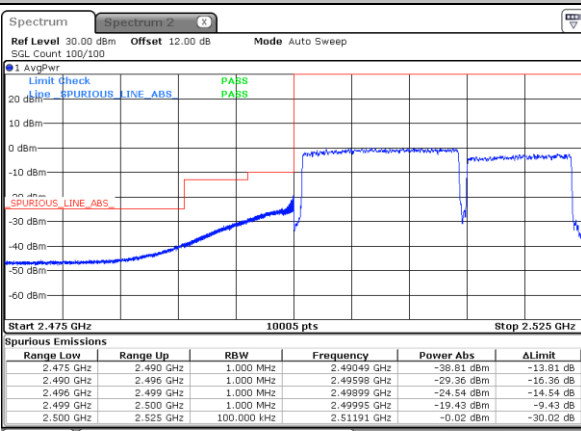


Date: 19.OCT.2022 21:48:46

Date: 19.OCT.2022 21:32:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 21:41:30

Date: 19.OCT.2022 21:25:24

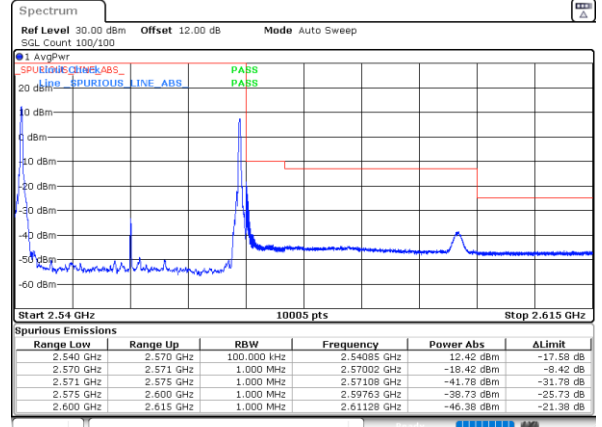
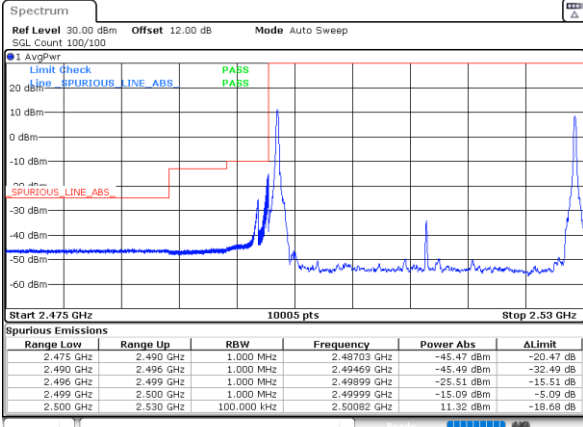


LTE Band 7C / 15MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

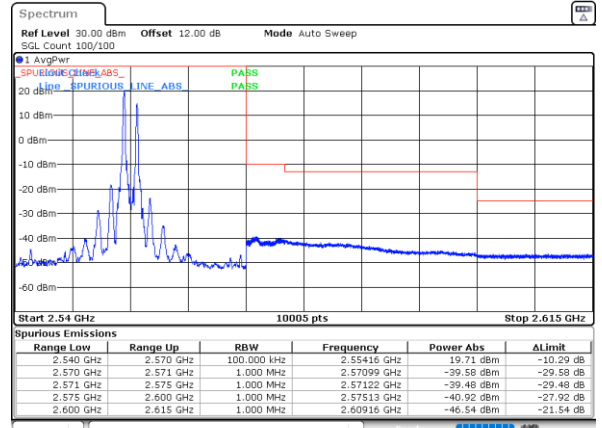
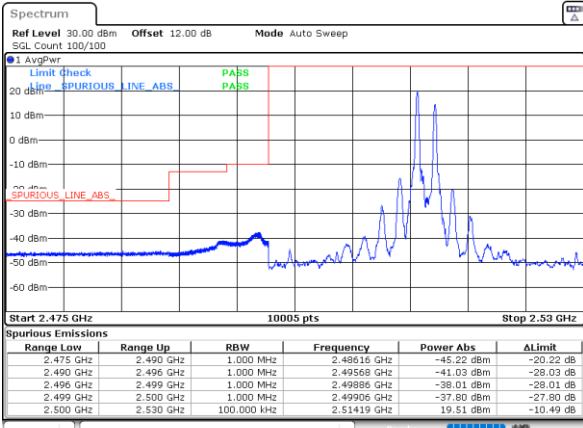


Date: 19.OCT.2022 02:17:46

Date: 19.OCT.2022 01:56:57

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

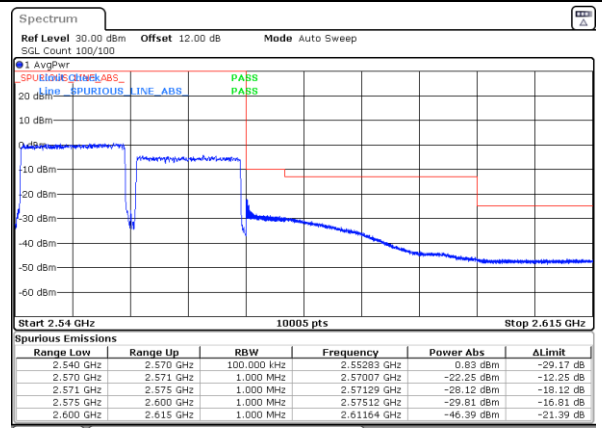
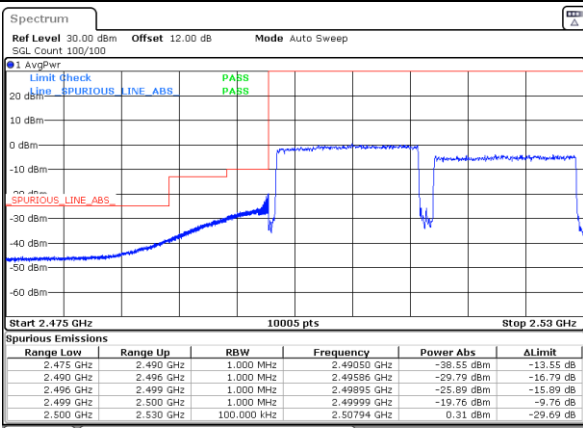


Date: 19.OCT.2022 02:18:56

Date: 19.OCT.2022 02:02:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 02:11:54

Date: 19.OCT.2022 01:55:47

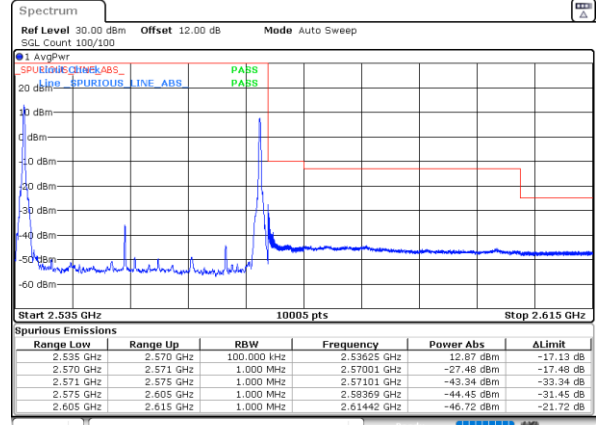
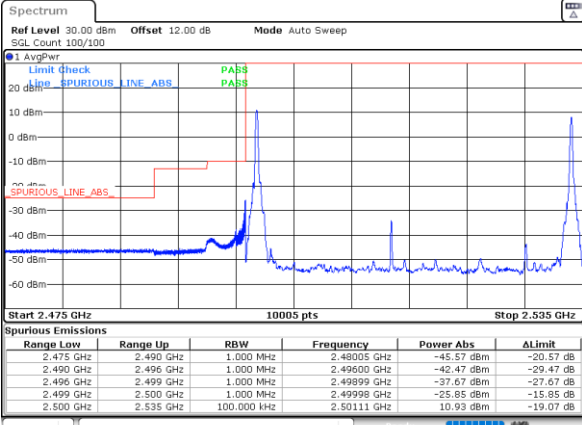


LTE Band 7C / 15MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

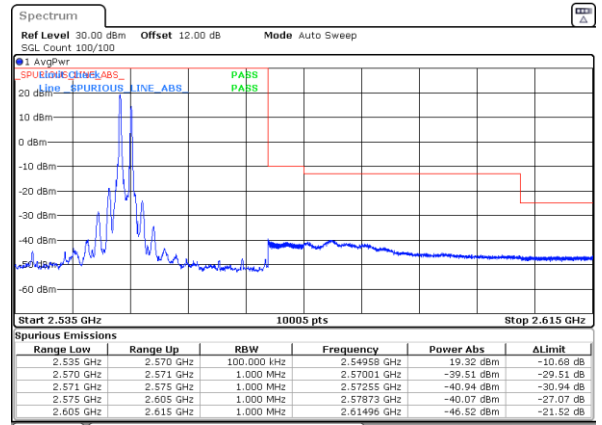
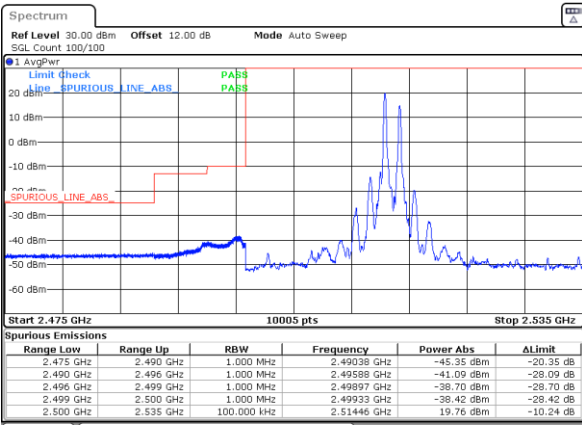


Date: 19.OCT.2022 03:09:30

Date: 19.OCT.2022 02:47:25

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

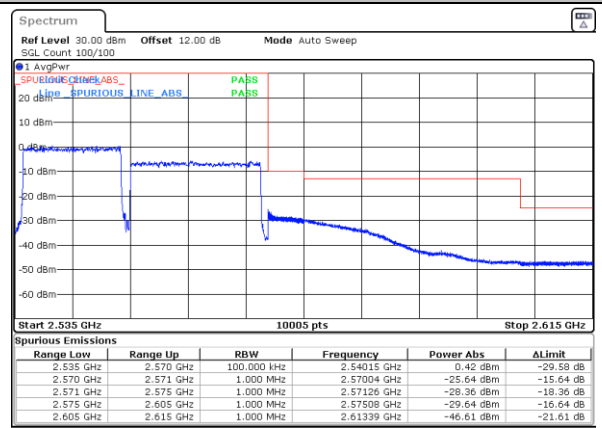
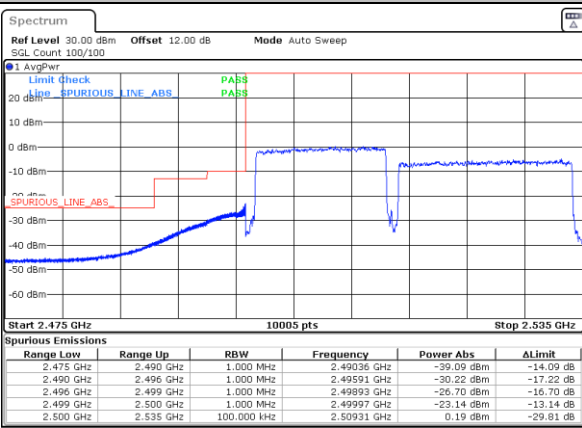


Date: 19.OCT.2022 03:10:43

Date: 19.OCT.2022 02:53:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 03:03:27

Date: 19.OCT.2022 02:46:12

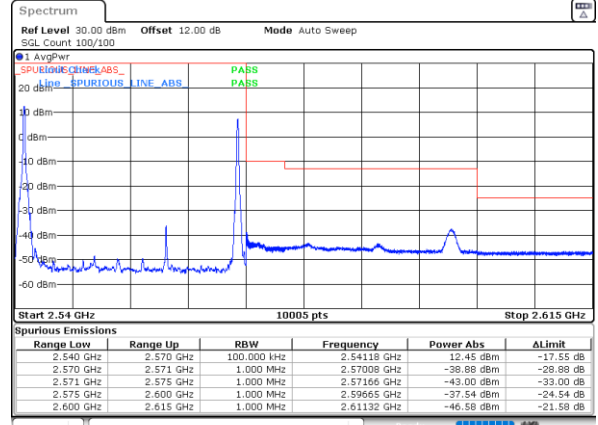
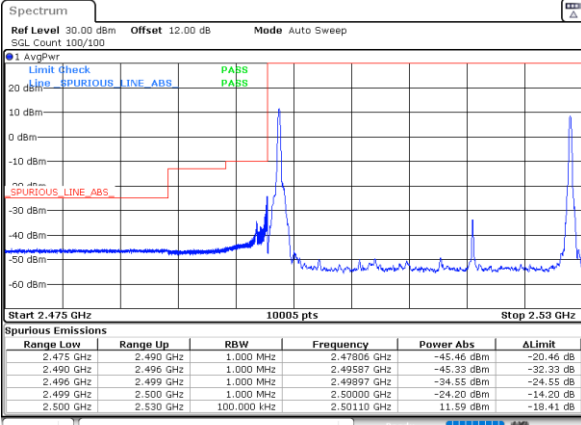


LTE Band 7C / 20MHz+10MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

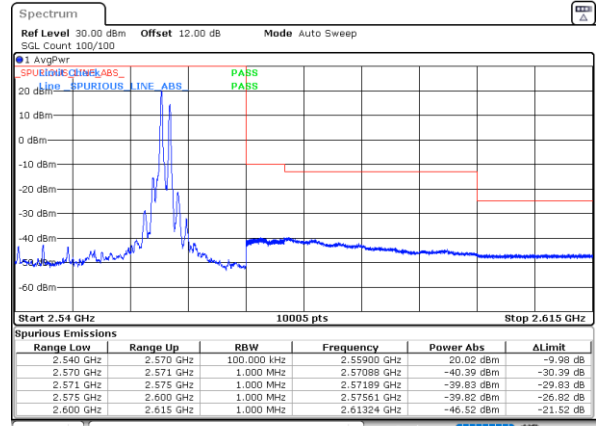
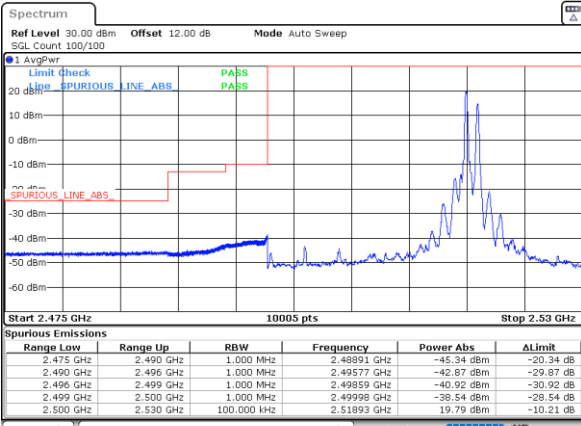


Date: 19.OCT.2022 01:31:15

Date: 19.OCT.2022 01:10:16

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

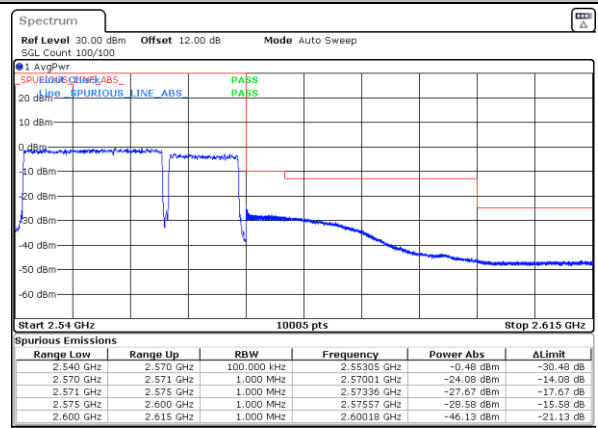
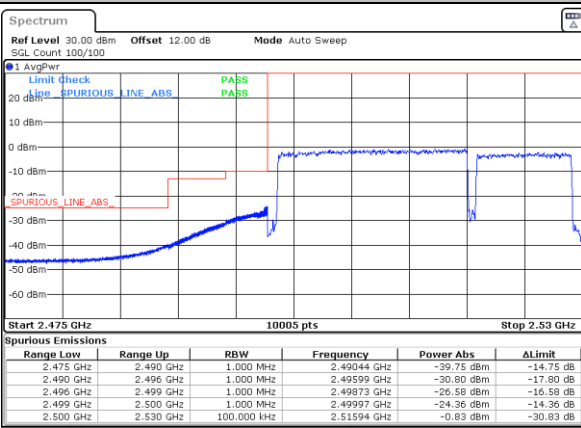


Date: 19.OCT.2022 01:32:29

Date: 19.OCT.2022 01:16:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 01:25:11

Date: 19.OCT.2022 01:09:04

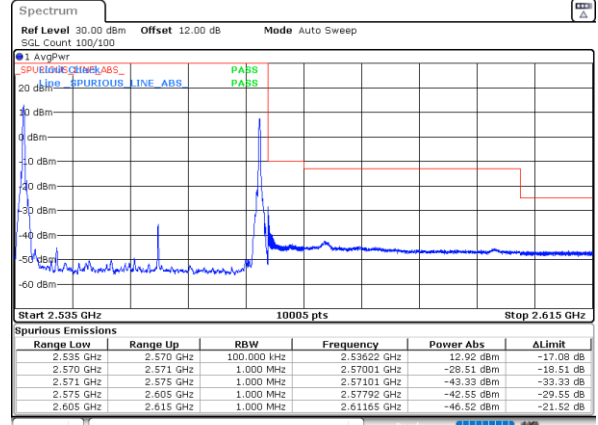
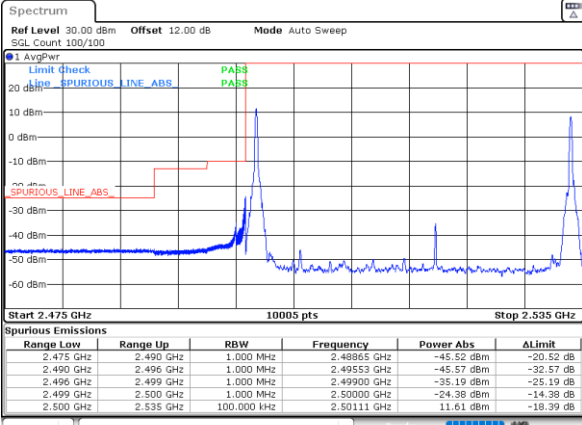


LTE Band 7C / 20MHz+15MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

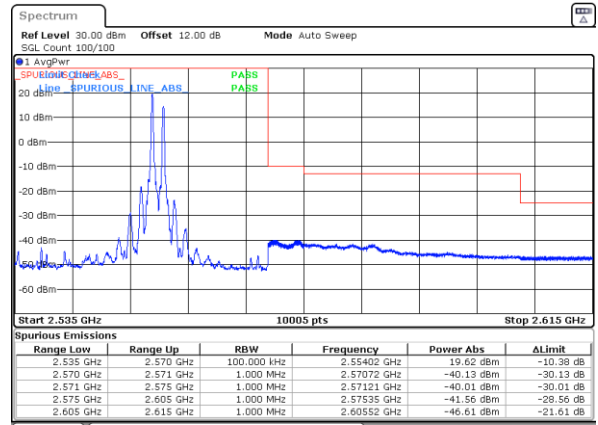
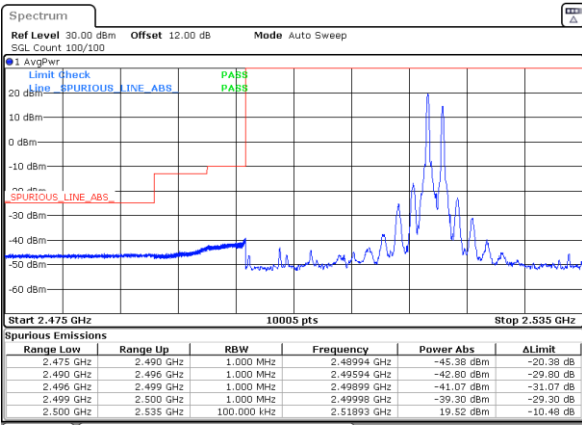


Date: 19.OCT.2022 03:58:06

Date: 19.OCT.2022 03:16:26

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

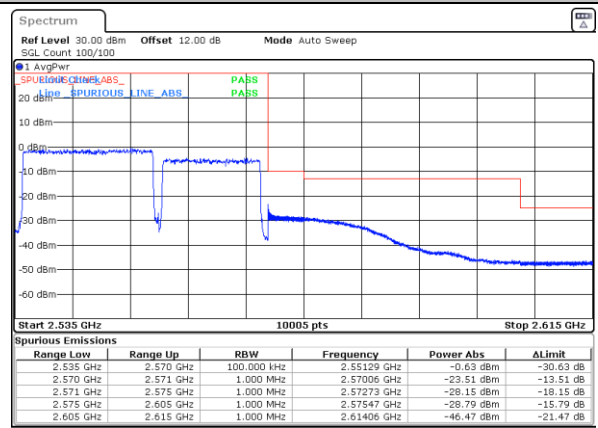
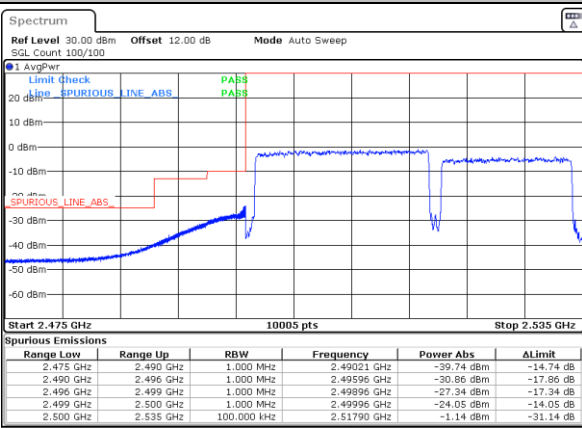


Date: 19.OCT.2022 03:59:19

Date: 19.OCT.2022 03:14:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 03:52:03

Date: 19.OCT.2022 03:35:14

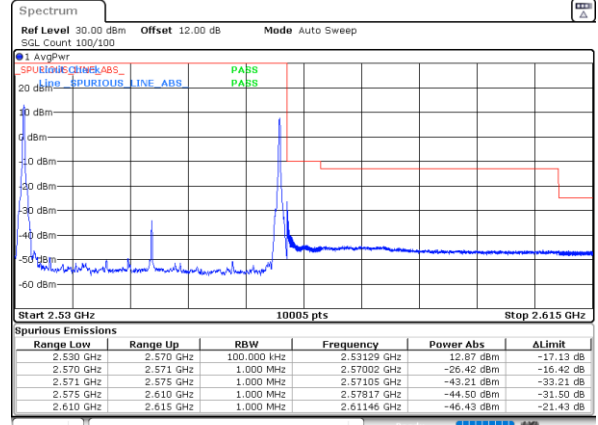
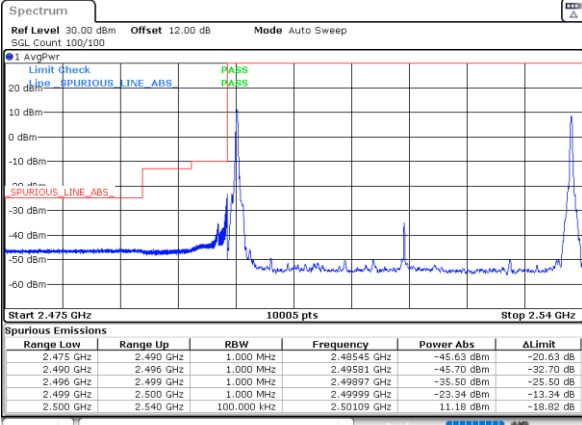


LTE Band 7C / 20MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Highest Band Edge / 1RB0 and 1RB99

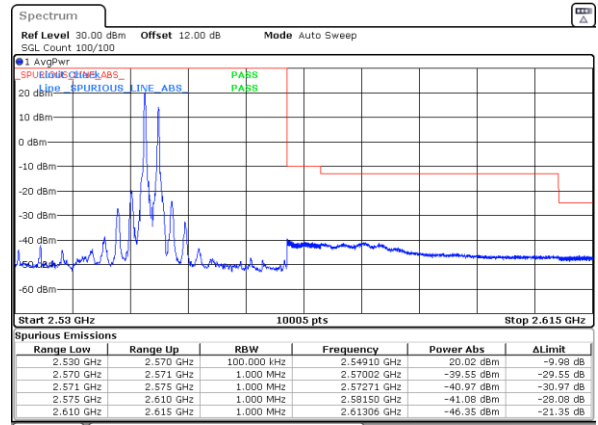
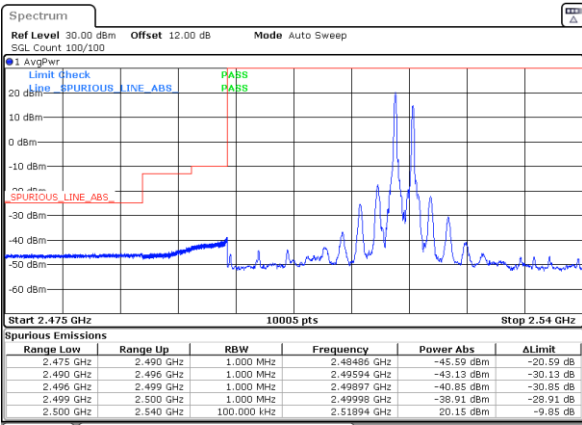


Date: 19.OCT.2022 04:45:17

Date: 19.OCT.2022 04:24:29

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

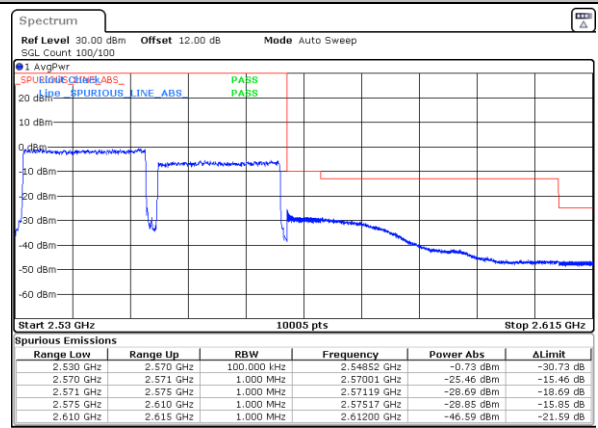
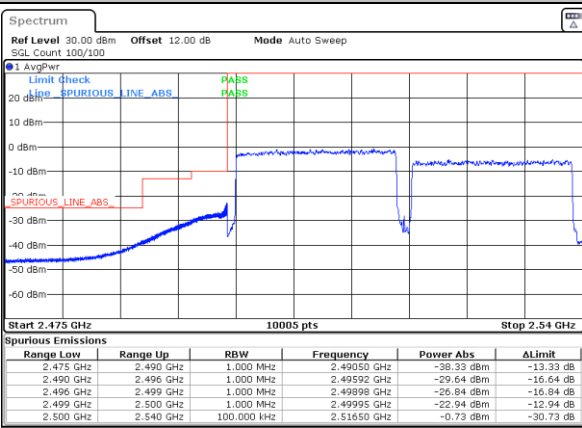


Date: 19.OCT.2022 04:46:28

Date: 19.OCT.2022 04:30:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 04:39:26

Date: 19.OCT.2022 04:23:19

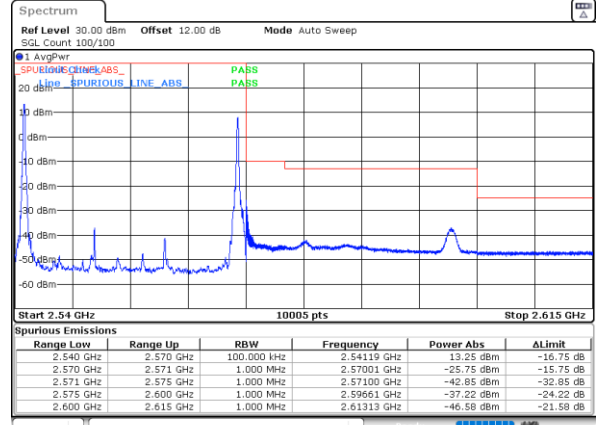
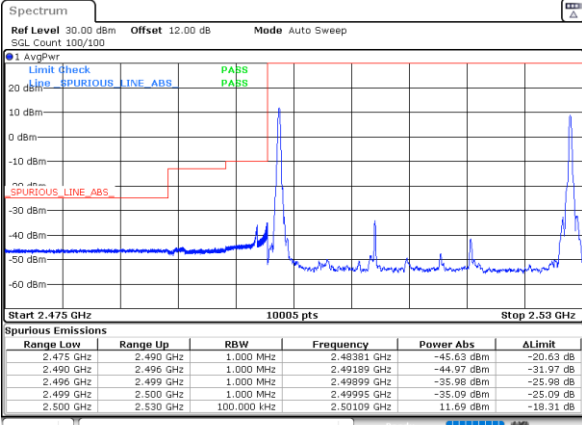


LTE Band 7C / 10MHz+20MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

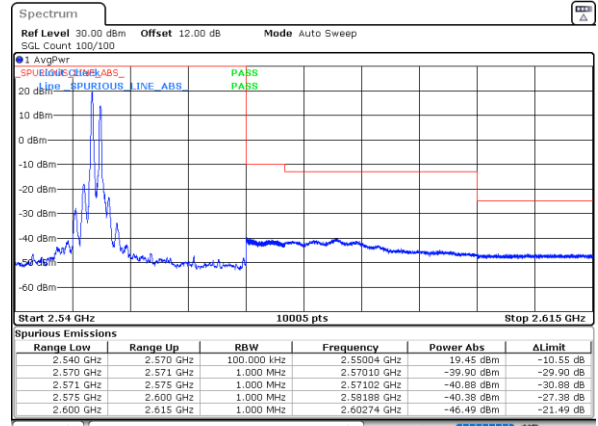
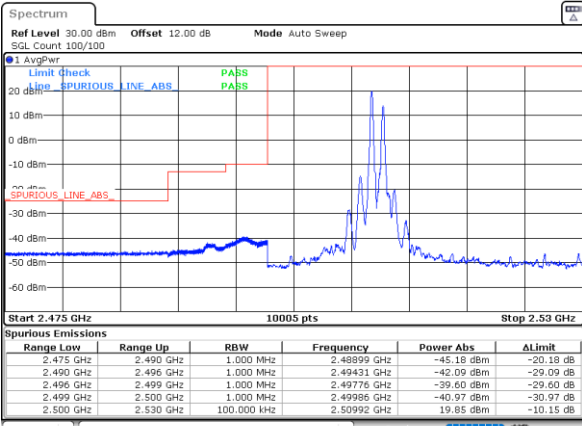


Date: 19.OCT.2022 00:42:02

Date: 19.OCT.2022 00:22:50

Lowest Band Edge / 1RB49 and 1RB0

Highest Band Edge / 1RB49 and 1RB0

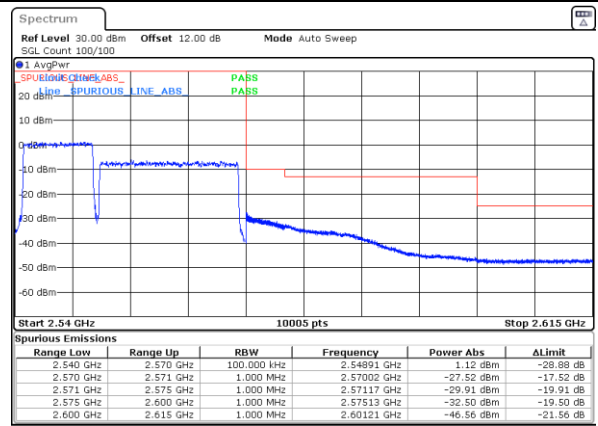
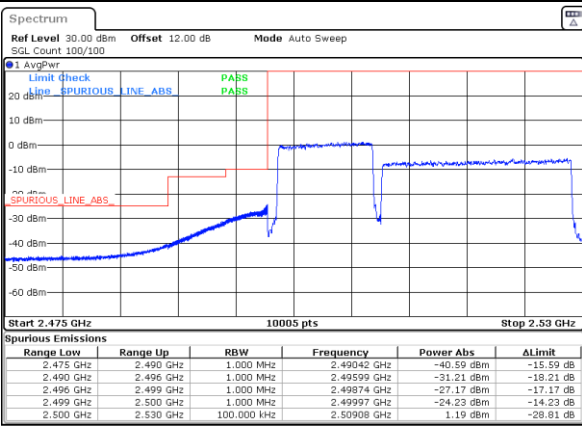


Date: 19.OCT.2022 00:45:39

Date: 19.OCT.2022 00:26:25

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 00:38:24

Date: 19.OCT.2022 00:19:13

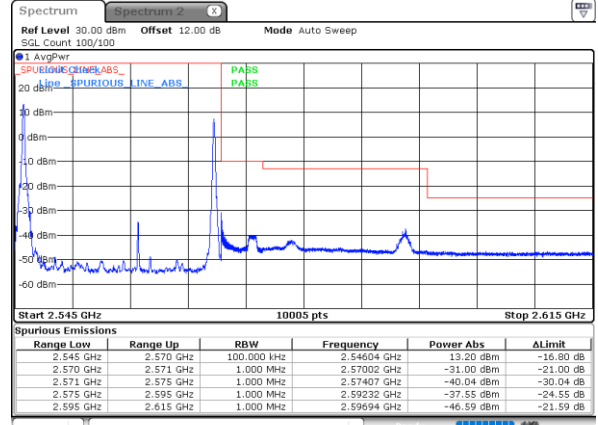
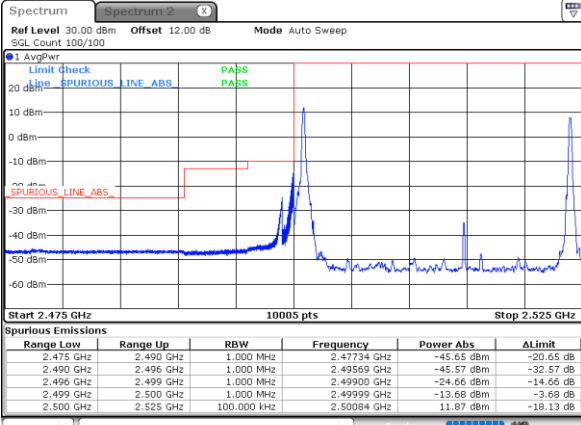


LTE Band 7C / 15MHz+10MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB49

Highest Band Edge / 1RB0 and 1RB49

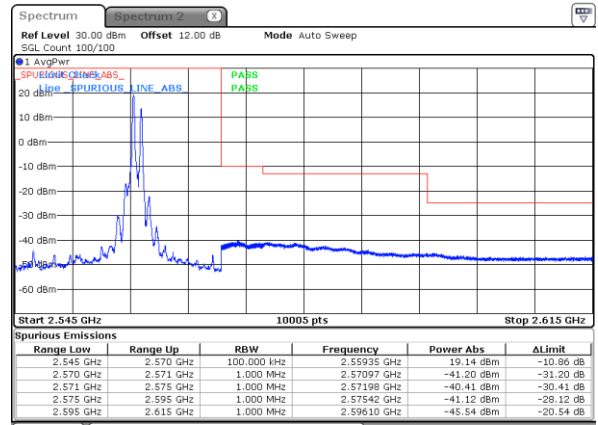
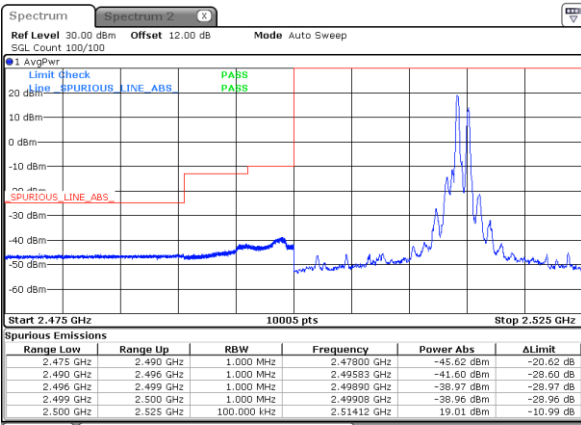


Date: 19.OCT.2022 21:46:21

Date: 19.OCT.2022 21:27:48

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

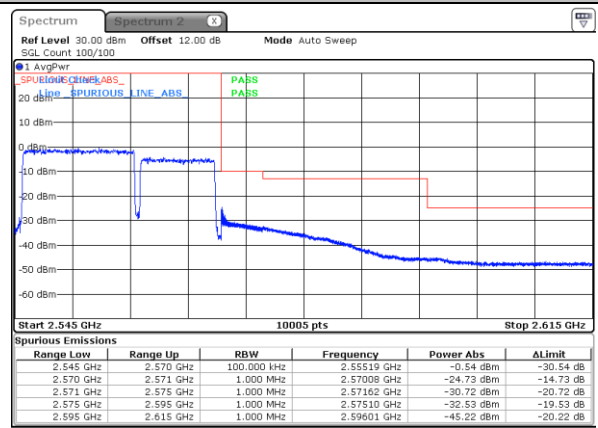
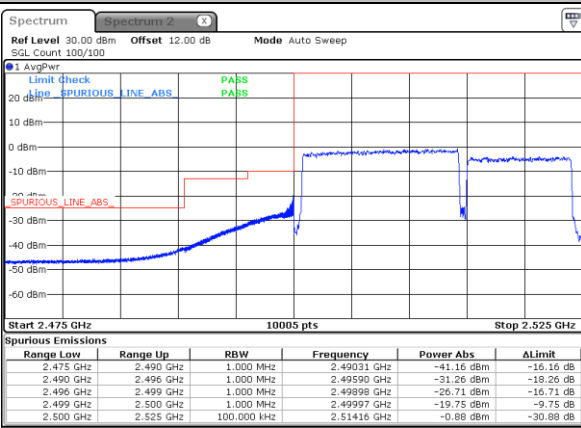


Date: 19.OCT.2022 21:49:59

Date: 19.OCT.2022 21:31:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 21:42:42

Date: 19.OCT.2022 21:24:12

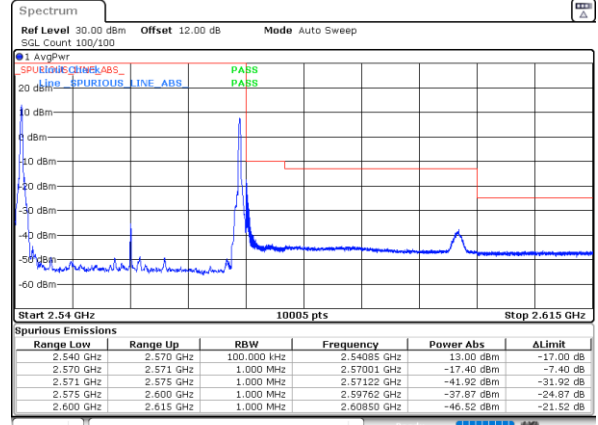
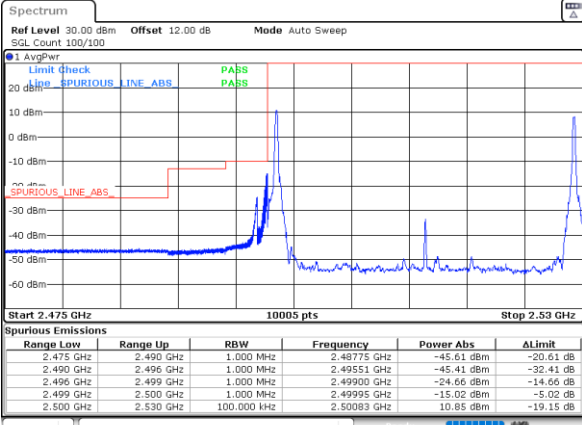


LTE Band 7C / 15MHz+15MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

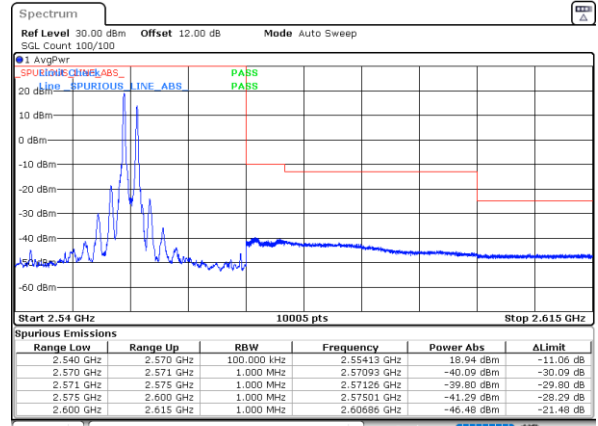
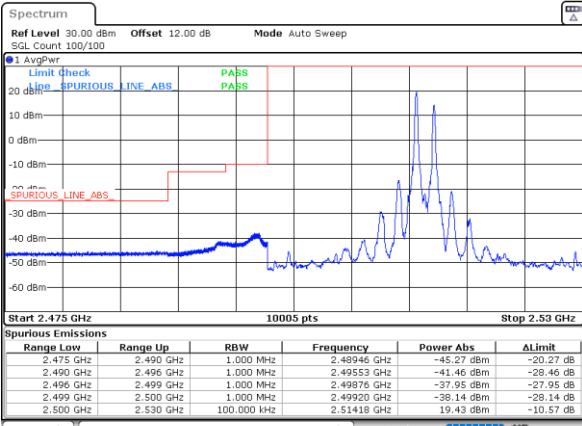


Date: 19.OCT.2022 02:16:36

Date: 19.OCT.2022 01:58:07

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

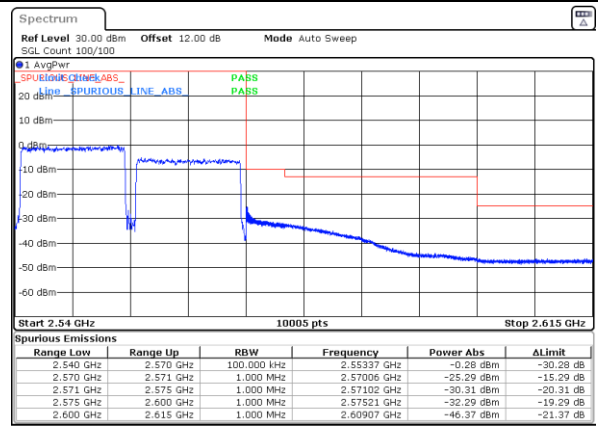
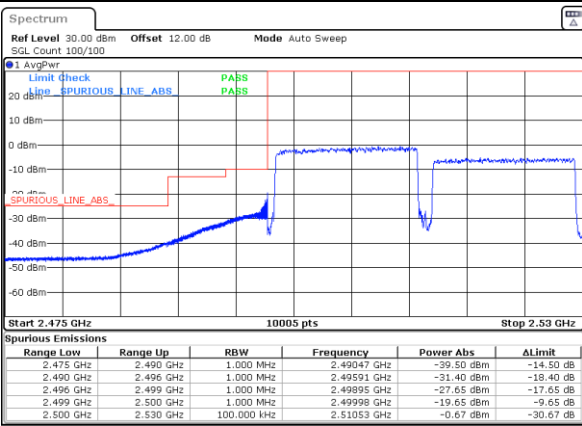


Date: 19.OCT.2022 02:20:06

Date: 19.OCT.2022 02:01:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 02:13:04

Date: 19.OCT.2022 01:54:37

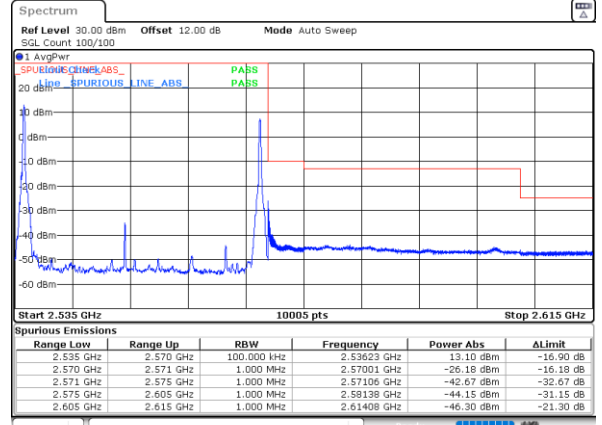
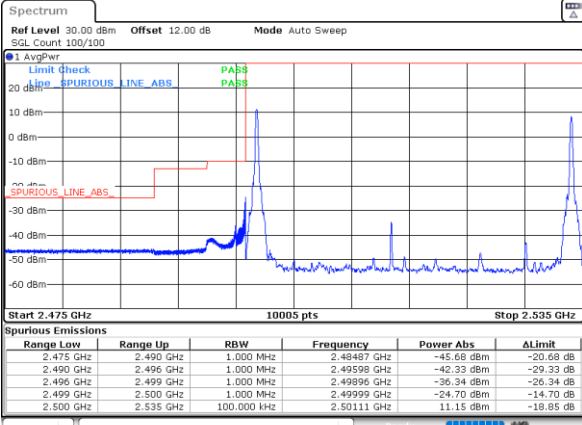


LTE Band 7C / 15MHz+20MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

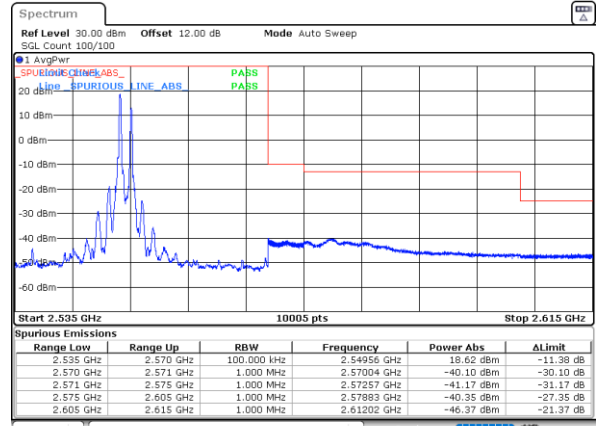
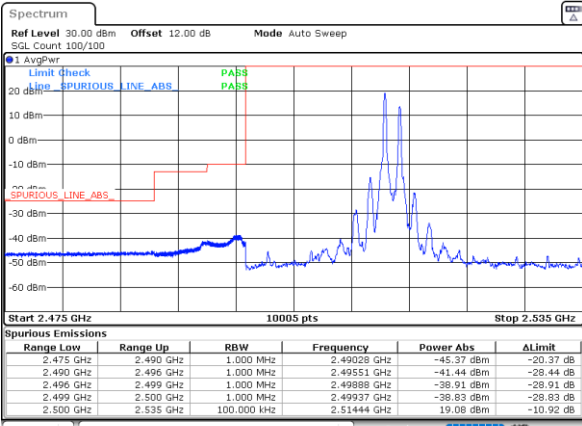


Date: 19.OCT.2022 03:08:17

Date: 19.OCT.2022 02:48:37

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

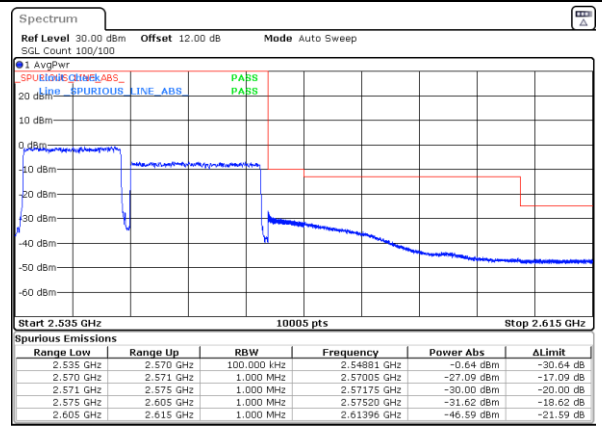
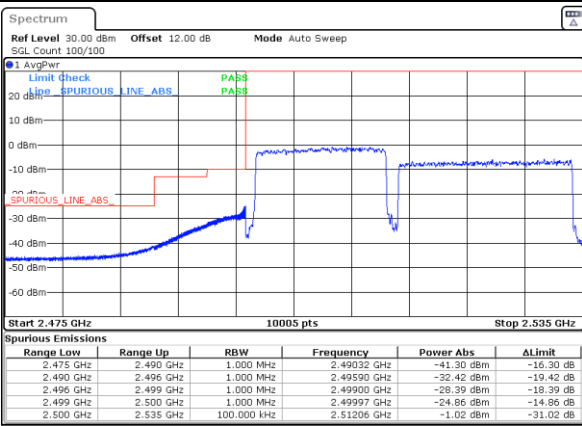


Date: 19.OCT.2022 03:11:56

Date: 19.OCT.2022 02:52:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 19.OCT.2022 03:04:40

Date: 19.OCT.2022 02:45:00