

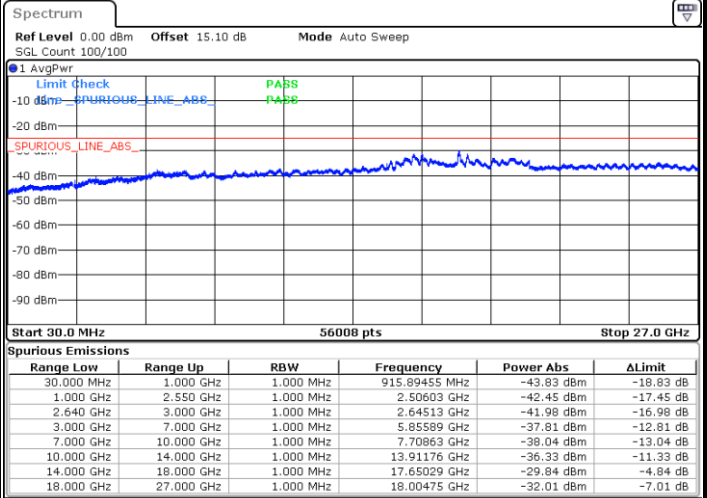
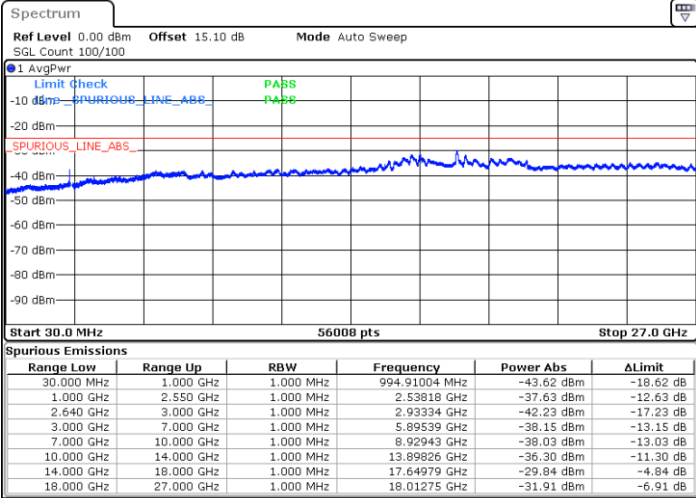


Conducted Spurious Emission

LTE Band 38 / 5MHz

Lowest Channel / QPSK

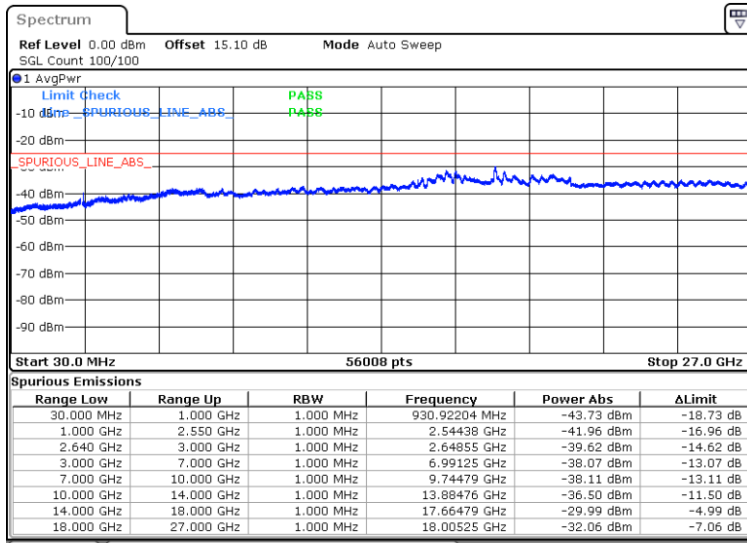
Middle Channel / QPSK



Date: 19.AUG.2022 10:45:26

Date: 19.AUG.2022 10:46:45

Highest Channel / QPSK



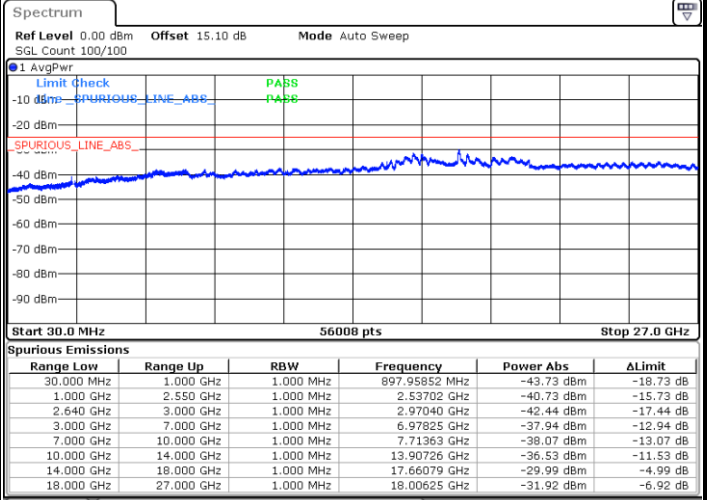
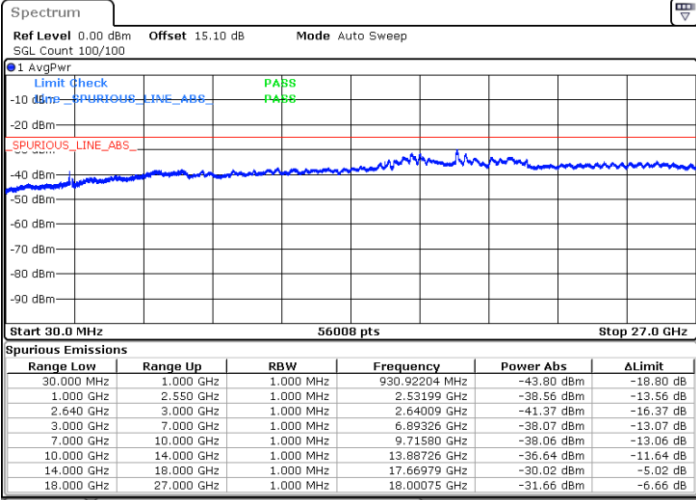
Date: 19.AUG.2022 10:48:04



LTE Band 38 / 10MHz

Lowest Channel / QPSK

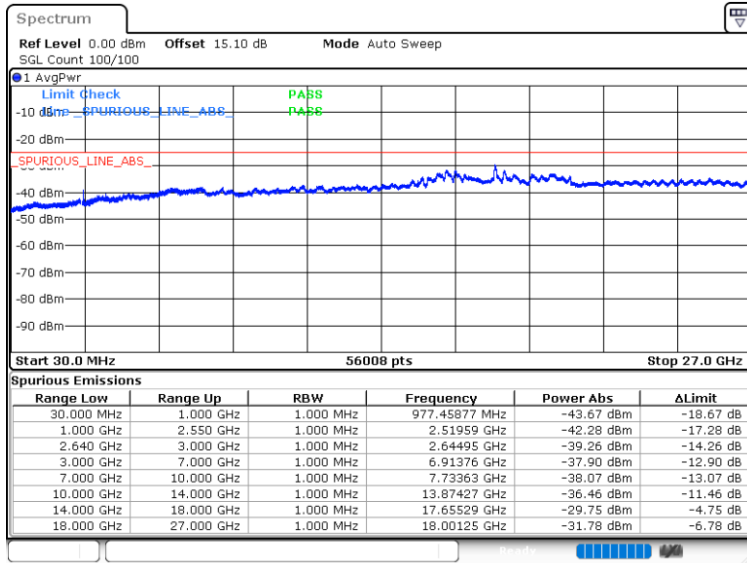
Middle Channel / QPSK



Date: 19.AUG.2022 10:49:29

Date: 19.AUG.2022 10:50:47

Highest Channel / QPSK



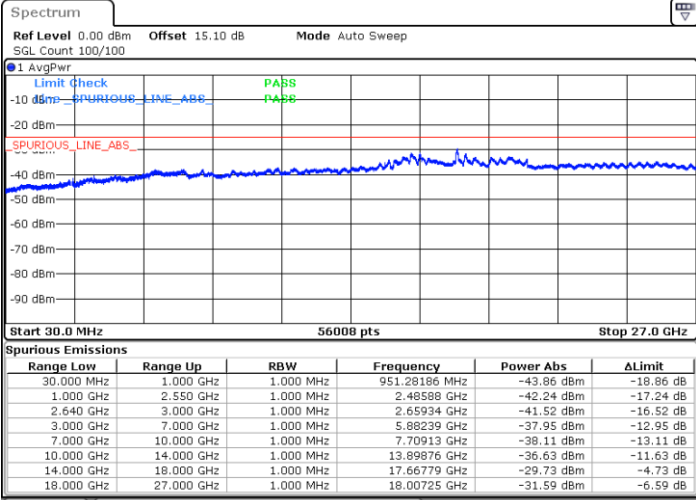
Date: 19.AUG.2022 10:52:06



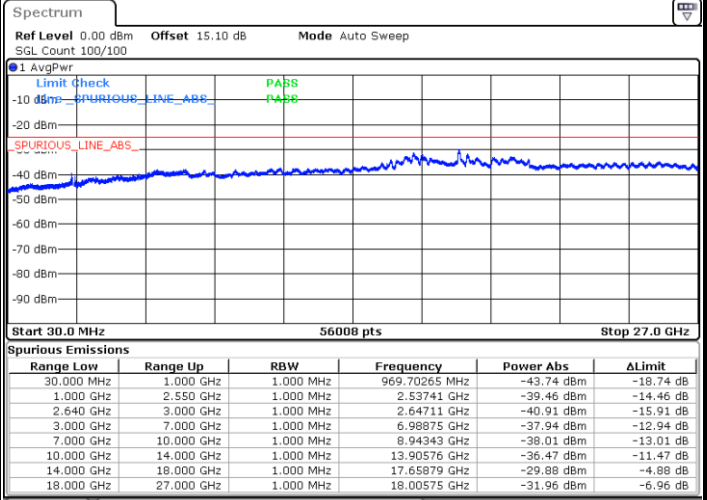
LTE Band 38 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK

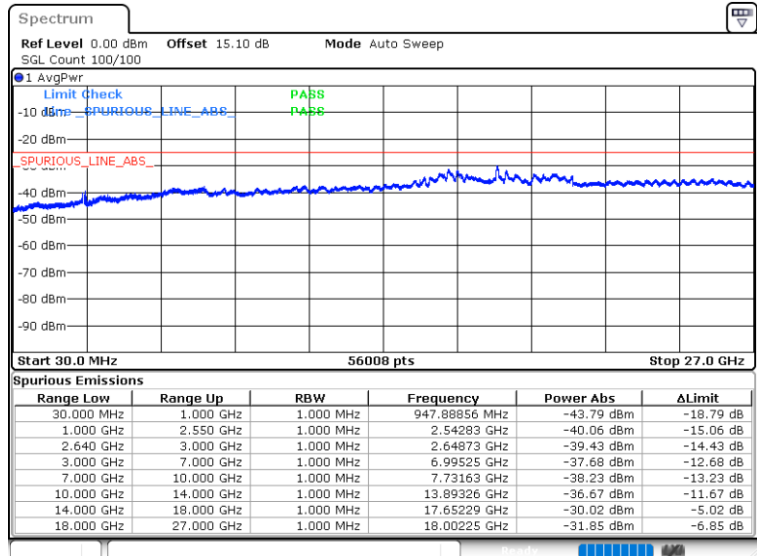


Date: 19.AUG.2022 10:53:30



Date: 19.AUG.2022 10:54:49

Highest Channel / QPSK



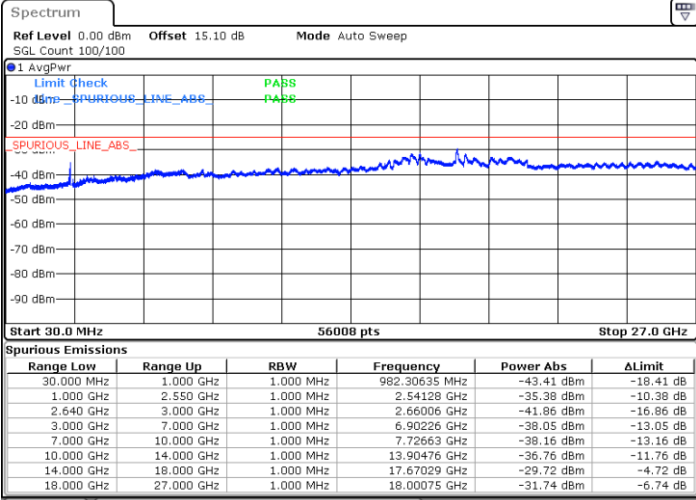
Date: 19.AUG.2022 10:56:08



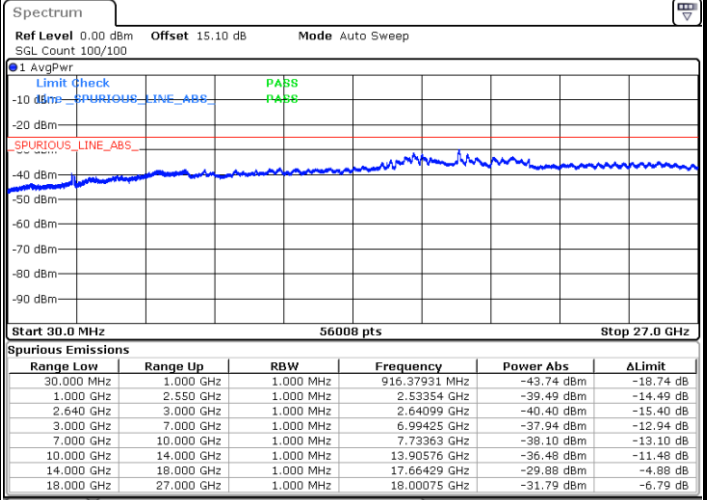
LTE Band 38 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

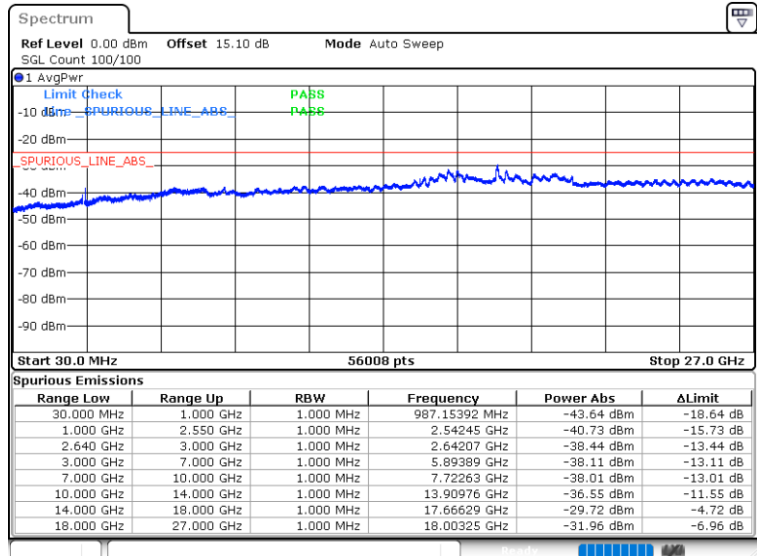


Date: 19.AUG.2022 10:57:32



Date: 19.AUG.2022 10:58:51

Highest Channel / QPSK



Date: 19.AUG.2022 11:00:10



Frequency Stability

Test Conditions		LTE Band 38 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0044	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0051	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0043	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0045	

Note:

- 1. Normal Voltage = 3.30 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 38C

26dB Bandwidth

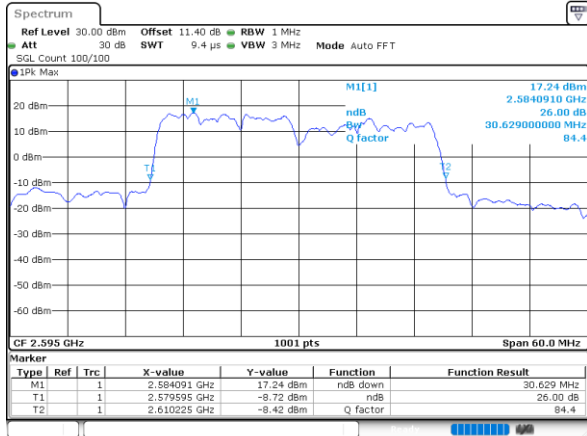
Mode	LTE Band 38C : 26dB BW(MHz)			
	QPSK	16QAM	64QAM	256QAM
BW	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz
Middle CH	30.63	31.59	30.57	30.45
BW	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz
Middle CH	39.96	39.80	39.80	39.80



LTE Band 38C

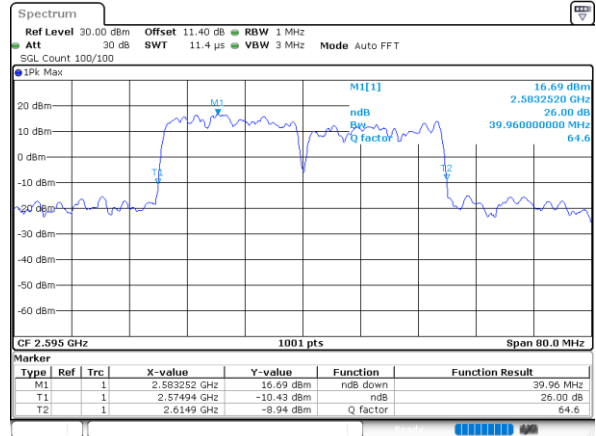
QPSK

Middle Channel / 15MHz+15MHz



Date: 25.AUG.2022 20:17:53

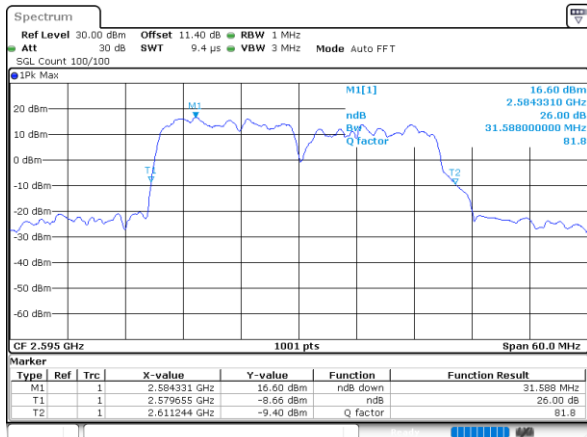
Middle Channel / 20MHz+20MHz



Date: 25.AUG.2022 20:31:46

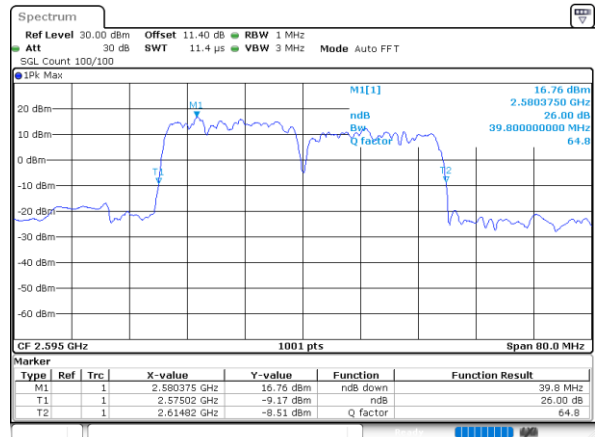
16QAM

Middle Channel / 15MHz+15MHz



Date: 25.AUG.2022 20:17:19

Middle Channel / 20MHz+20MHz



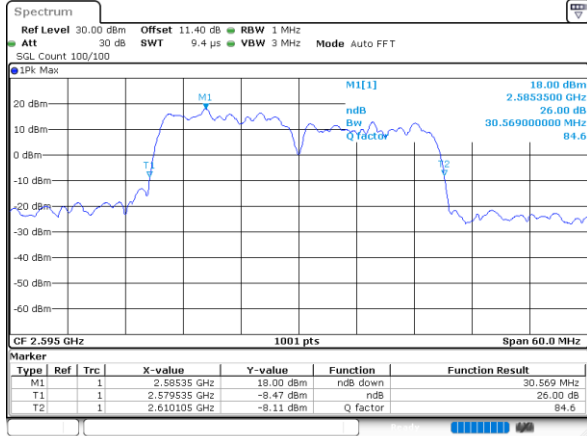
Date: 25.AUG.2022 20:31:12



LTE Band 38C

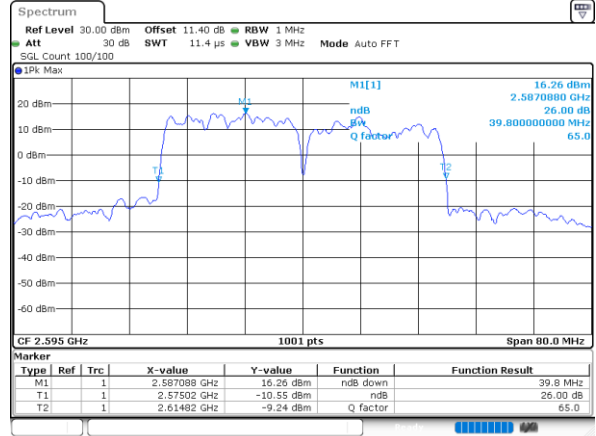
64QAM

Middle Channel / 15MHz+15MHz



Date: 25.AUG.2022 20:16:46

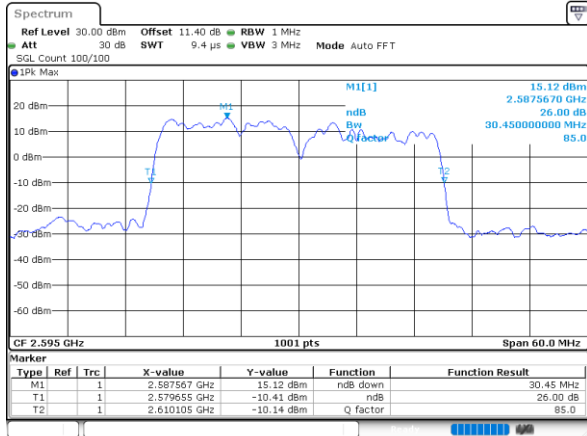
Middle Channel / 20MHz+20MHz



Date: 25.AUG.2022 20:30:38

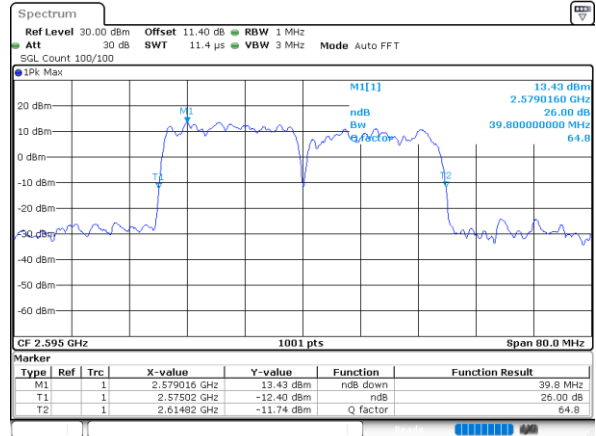
256QAM

Middle Channel / 15MHz+15MHz



Date: 25.AUG.2022 20:16:12

Middle Channel / 20MHz+20MHz



Date: 25.AUG.2022 20:30:04



Occupied Bandwidth

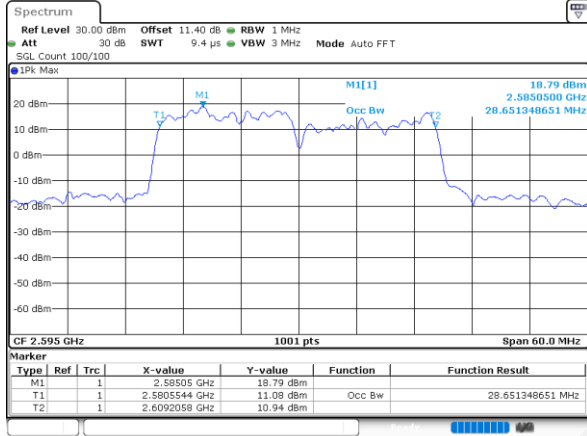
Mode	LTE Band 38C : 99%OBW(MHz)			
	QPSK	16QAM	64QAM	256QAM
BW	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz	15MHz+15MHz
Middle CH	28.65	28.47	28.35	28.05
BW	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz	20MHz+20MHz
Middle CH	37.64	37.40	37.56	37.40



LTE Band 38C

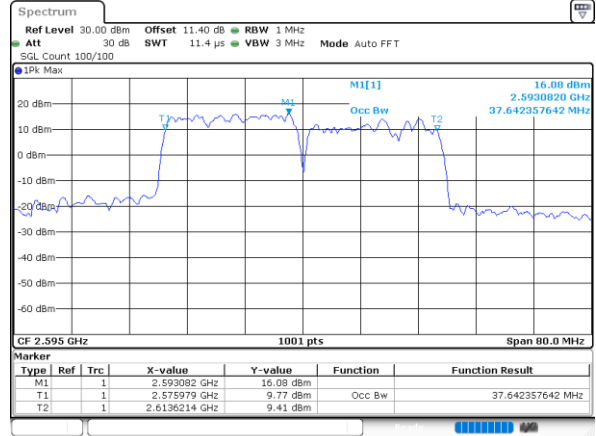
QPSK

Middle Channel / 15MHz+15MHz



Date: 25.AUG.2022 20:13:57

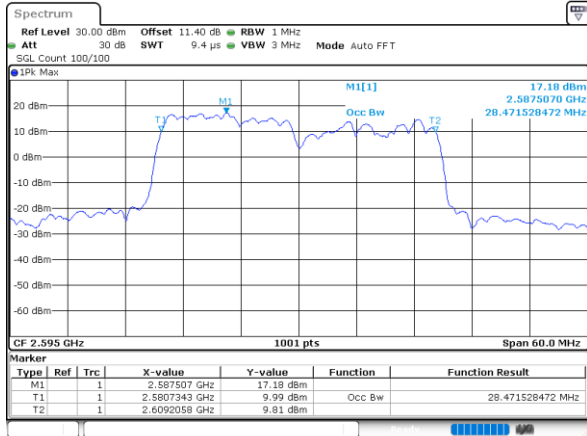
Middle Channel / 20MHz+20MHz



Date: 25.AUG.2022 20:27:50

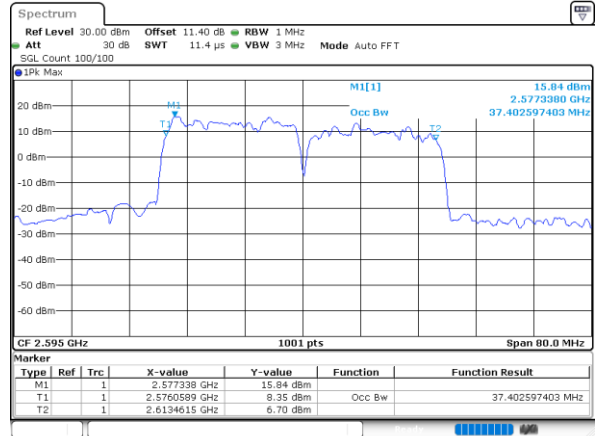
16QAM

Middle Channel / 15MHz+15MHz



Date: 25.AUG.2022 20:14:31

Middle Channel / 20MHz+20MHz



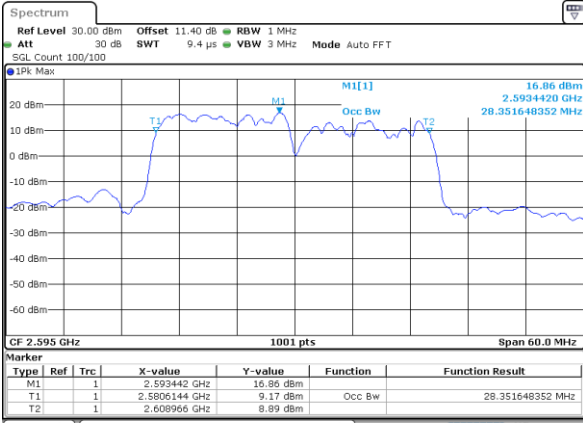
Date: 25.AUG.2022 20:28:24



LTE Band 38C

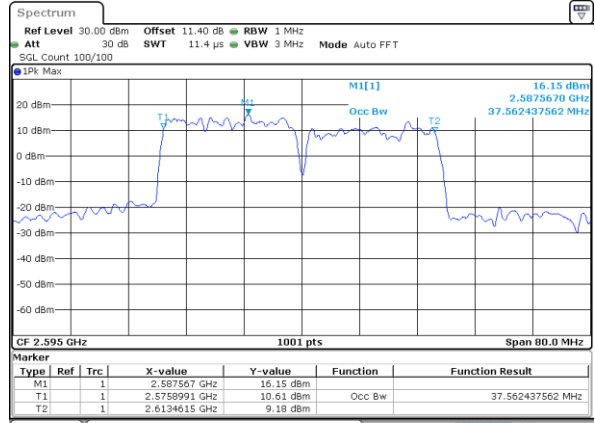
64QAM

Middle Channel / 15MHz+15MHz



Date: 25_AUG.2022 20:15:05

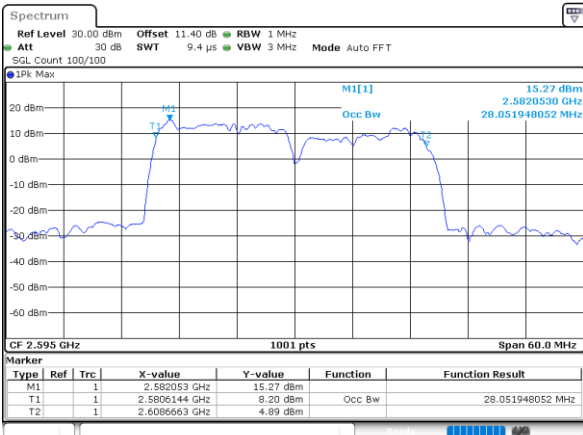
Middle Channel / 20MHz+20MHz



Date: 25_AUG.2022 20:28:58

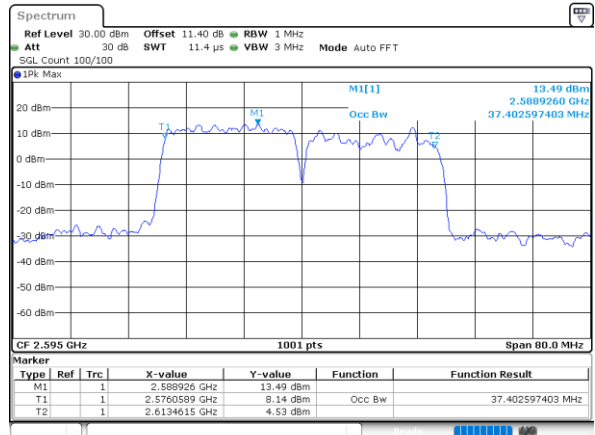
256QAM

Middle Channel / 15MHz+15MHz



Date: 25_AUG.2022 20:15:39

Middle Channel / 20MHz+20MHz



Date: 25_AUG.2022 20:29:31

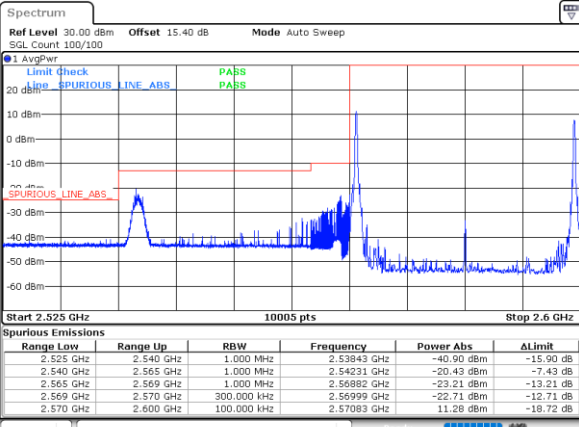


Conducted Band Edge

LTE Band 38C / 15MHz+15MHz

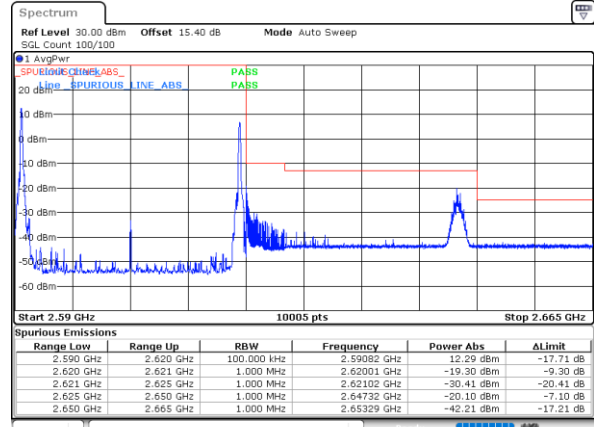
QPSK

Lowest Band Edge / 1RB0 and 1RB74



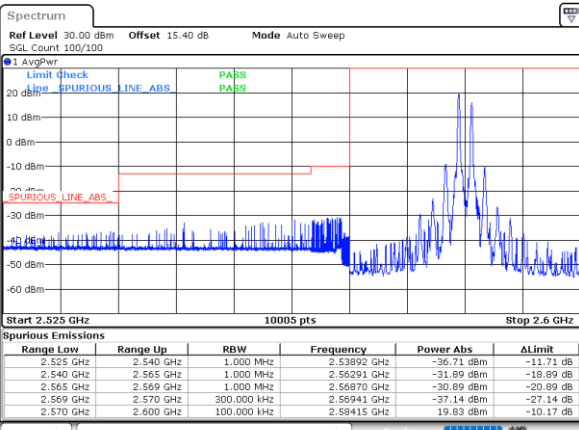
Date: 25.AUG.2022 19:21:57

Highest Band Edge / 1RB0 and 1RB74



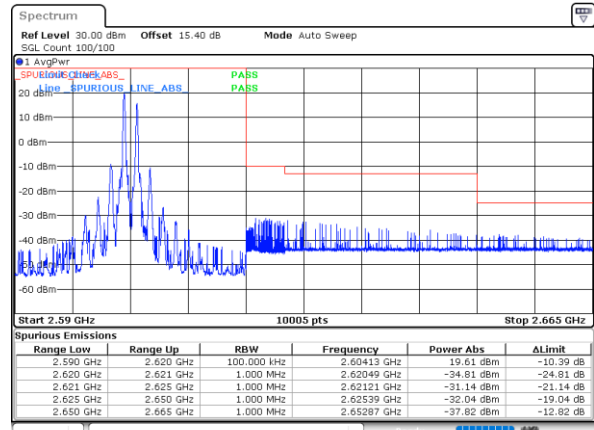
Date: 25.AUG.2022 19:02:30

Lowest Band Edge / 1RB74 and 1RB0



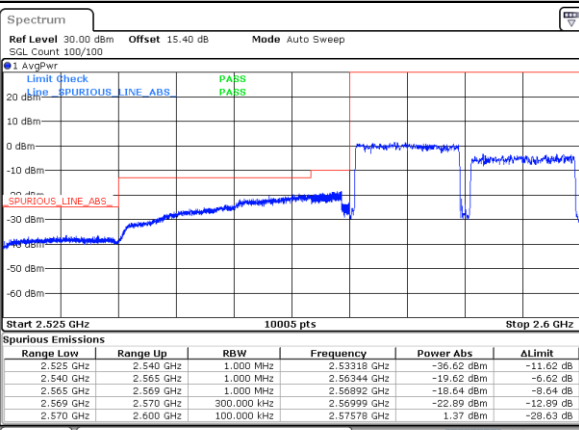
Date: 25.AUG.2022 19:26:29

Highest Band Edge / 1RB74 and 1RB0



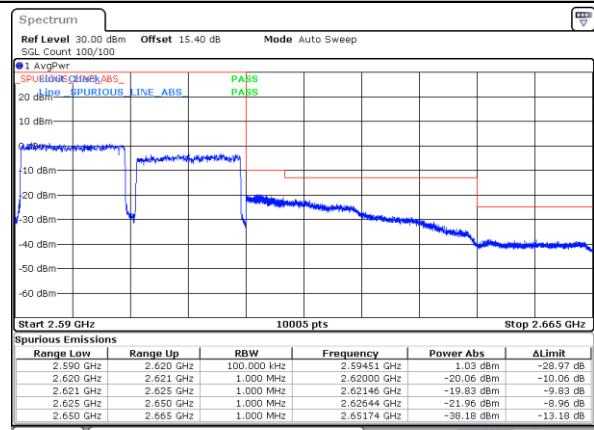
Date: 25.AUG.2022 19:07:01

Lowest Band Edge / Full RB



Date: 25.AUG.2022 19:17:24

Highest Band Edge / Full RB



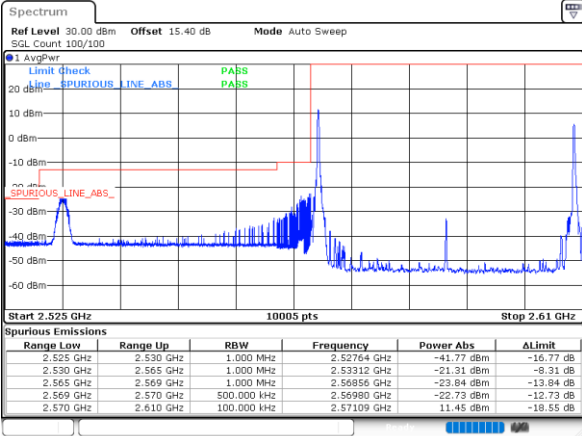
Date: 25.AUG.2022 18:57:59



LTE Band 38C / 20MHz+20MHz

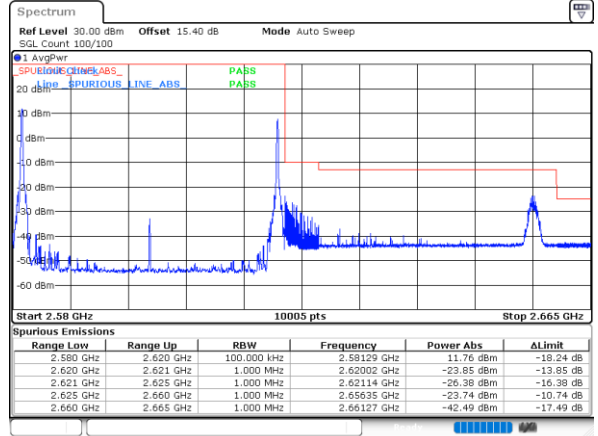
QPSK

Lowest Band Edge / 1RB0 and 1RB9



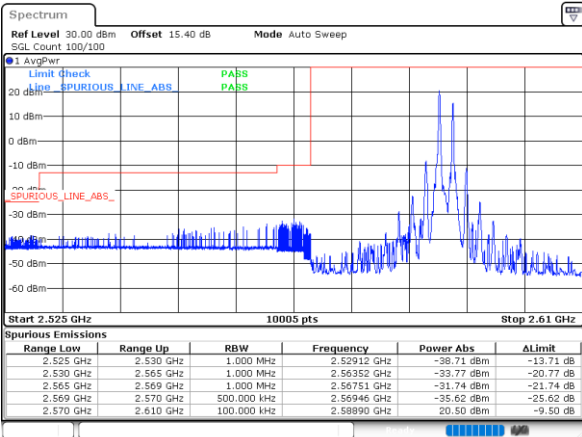
Date: 25.AUG.2022 19:57:55

Highest Band Edge / 1RB0 and 1RB9



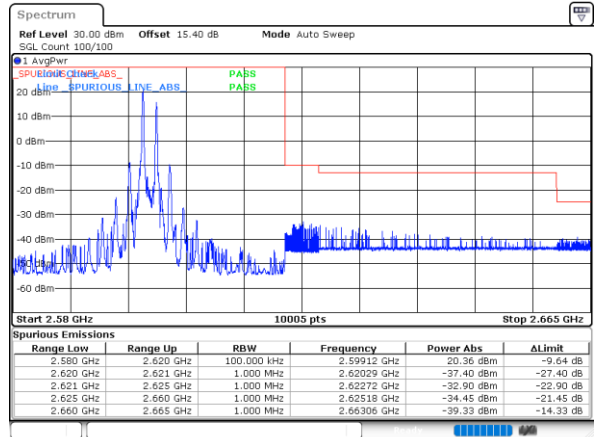
Date: 25.AUG.2022 19:58:27

Lowest Band Edge / 1RB99 and 1RB0



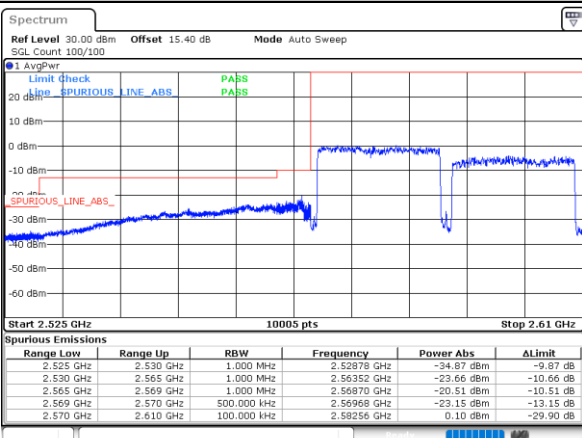
Date: 25.AUG.2022 20:02:27

Highest Band Edge / 1RB99 and 1RB0



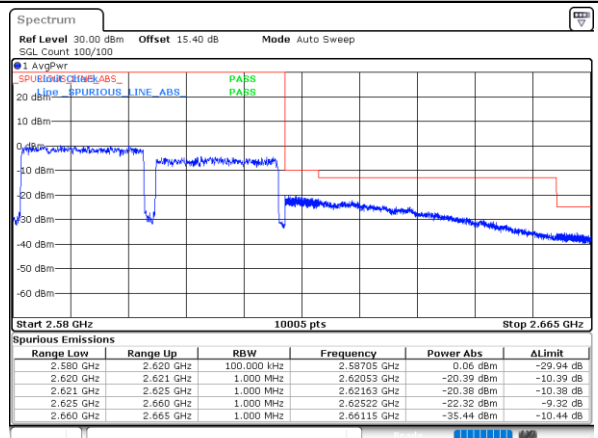
Date: 25.AUG.2022 19:42:58

Lowest Band Edge / Full RB



Date: 25.AUG.2022 19:53:22

Highest Band Edge / Full RB



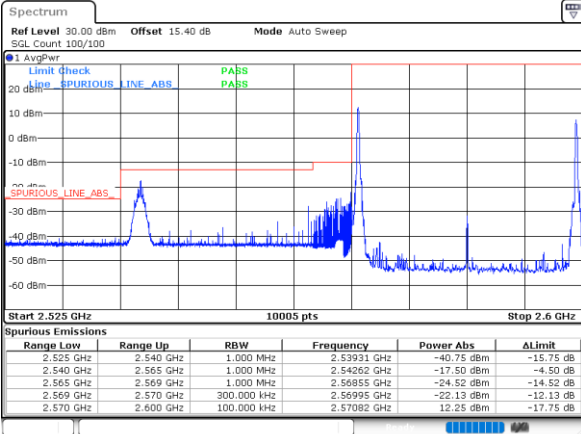
Date: 25.AUG.2022 19:33:55



LTE Band 38C / 15MHz+15MHz

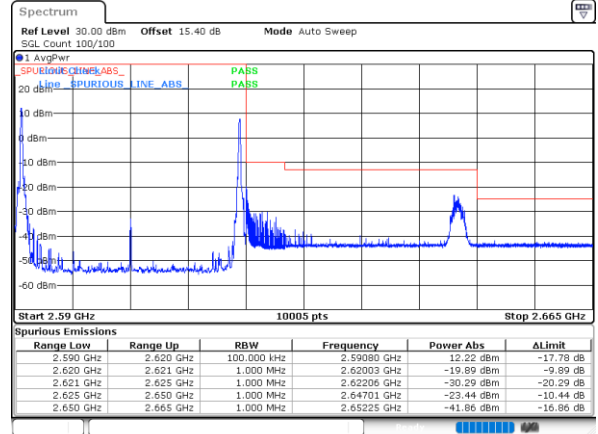
16QAM

Lowest Band Edge / 1RB0 and 1RB74



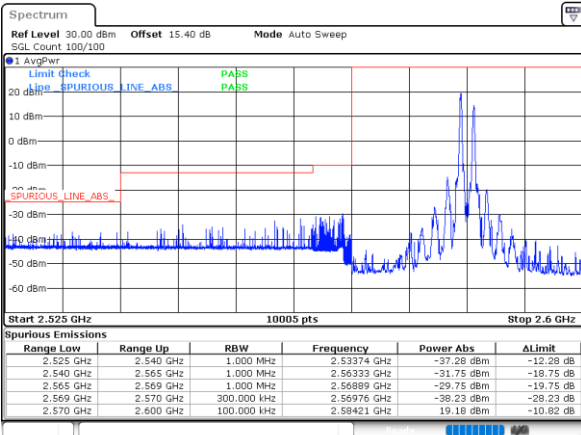
Date: 25.AUG.2022 19:23:05

Highest Band Edge / 1RB0 and 1RB74



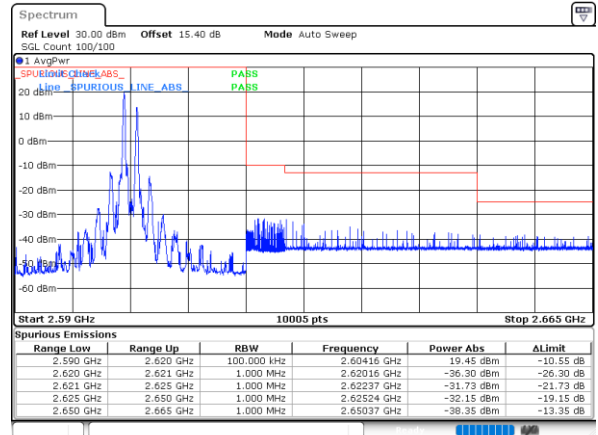
Date: 25.AUG.2022 19:03:38

Lowest Band Edge / 1RB74 and 1RB0



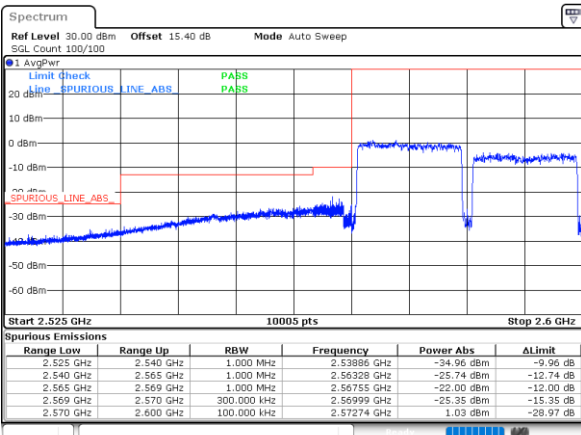
Date: 25.AUG.2022 19:27:37

Highest Band Edge / 1RB74 and 1RB0



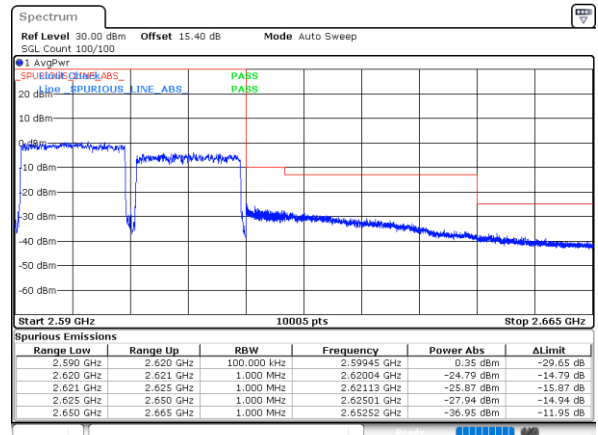
Date: 25.AUG.2022 19:08:09

Lowest Band Edge / Full RB



Date: 25.AUG.2022 19:18:31

Highest Band Edge / Full RB



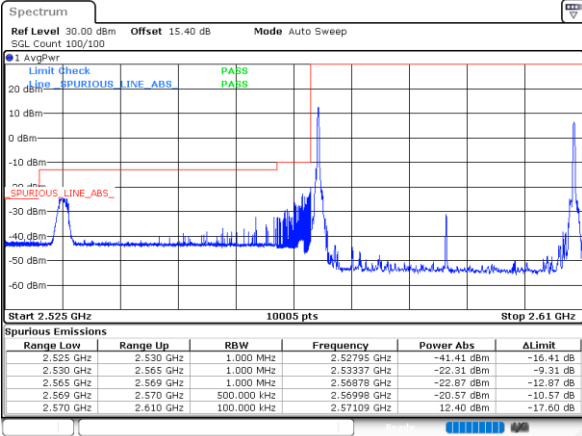
Date: 25.AUG.2022 18:59:06



LTE Band 38C / 20MHz+20MHz

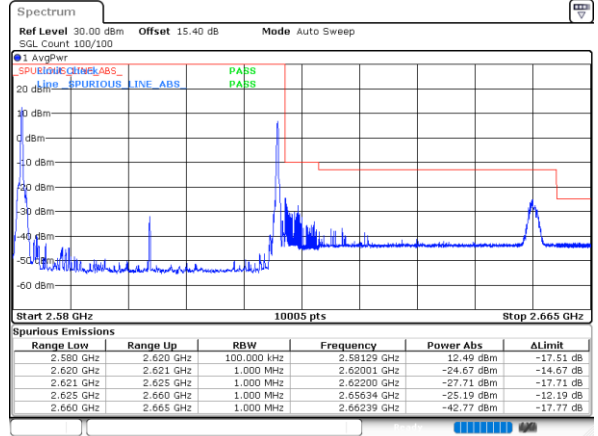
16QAM

Lowest Band Edge / 1RB0 and 1RB9



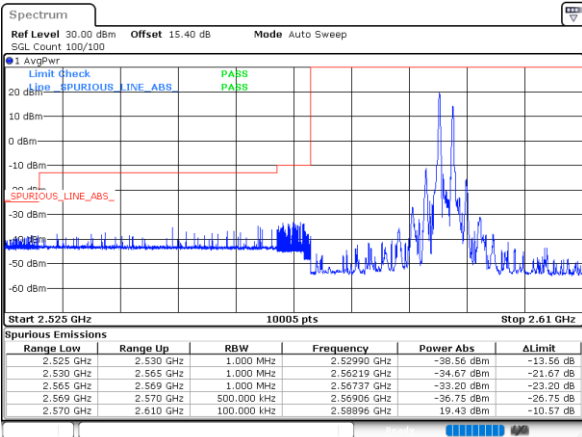
Date: 25.AUG.2022 19:59:03

Highest Band Edge / 1RB0 and 1RB9



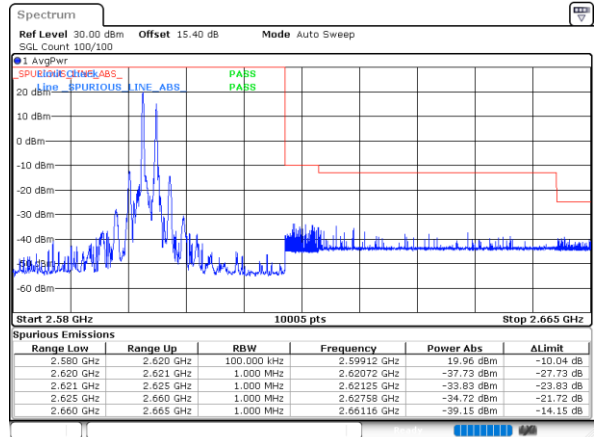
Date: 25.AUG.2022 19:59:34

Lowest Band Edge / 1RB99 and 1RB0



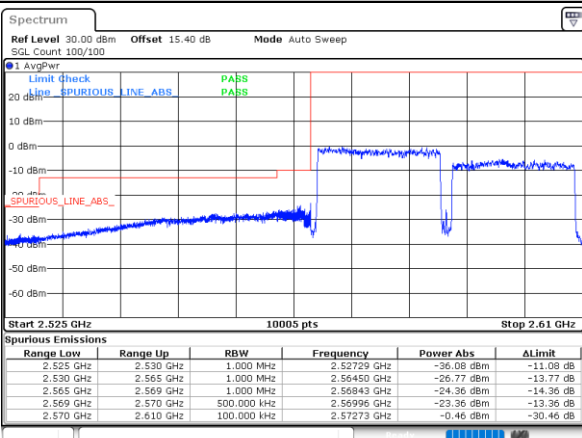
Date: 25.AUG.2022 20:03:35

Highest Band Edge / 1RB99 and 1RB0



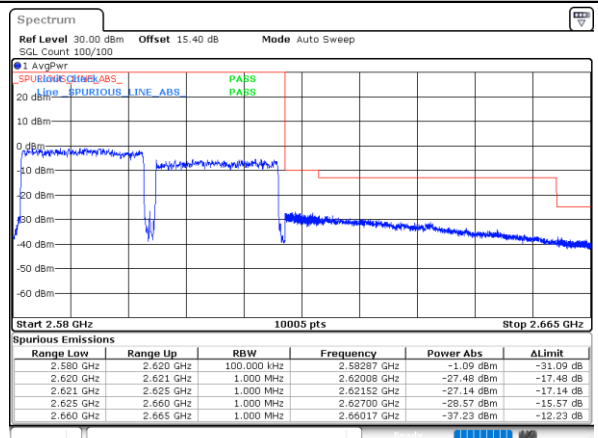
Date: 25.AUG.2022 19:44:06

Lowest Band Edge / Full RB



Date: 25.AUG.2022 19:54:30

Highest Band Edge / Full RB



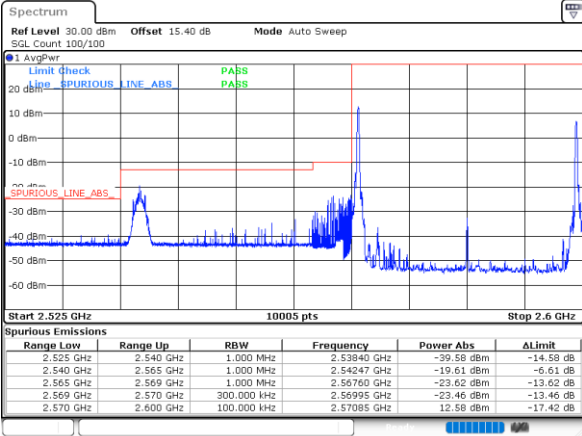
Date: 25.AUG.2022 19:35:03



LTE Band 38C / 15MHz+15MHz

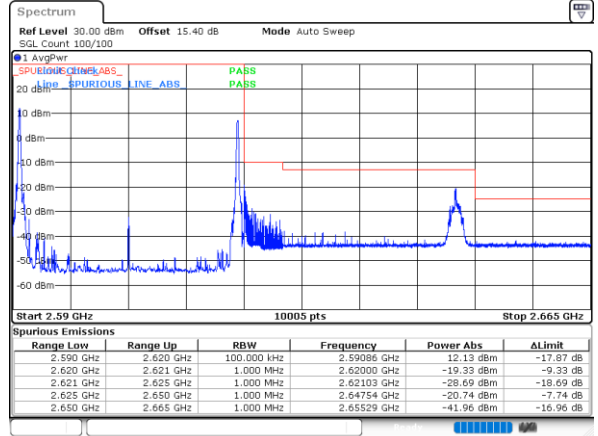
64QAM

Lowest Band Edge / 1RB0 and 1RB74



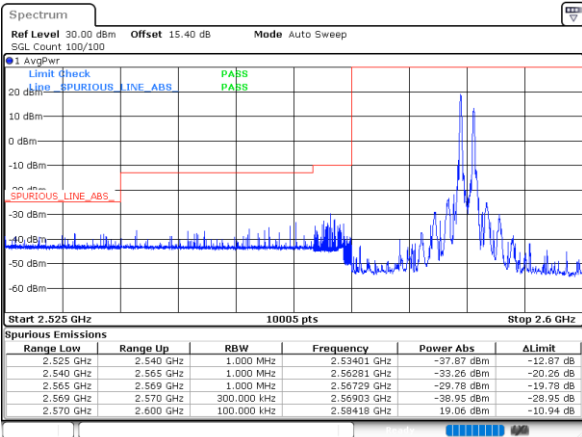
Date: 25.AUG.2022 19:24:12

Highest Band Edge / 1RB0 and 1RB74



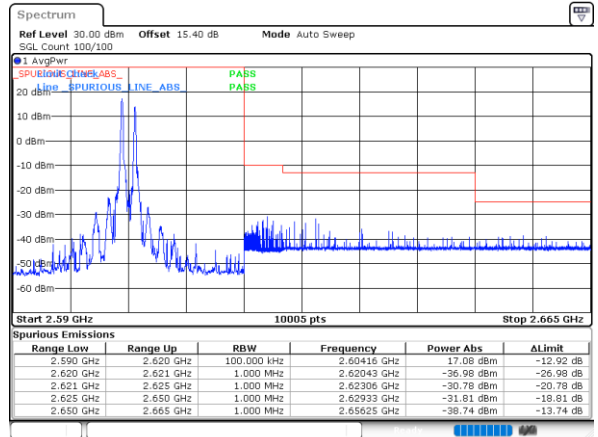
Date: 25.AUG.2022 19:04:45

Lowest Band Edge / 1RB74 and 1RB0



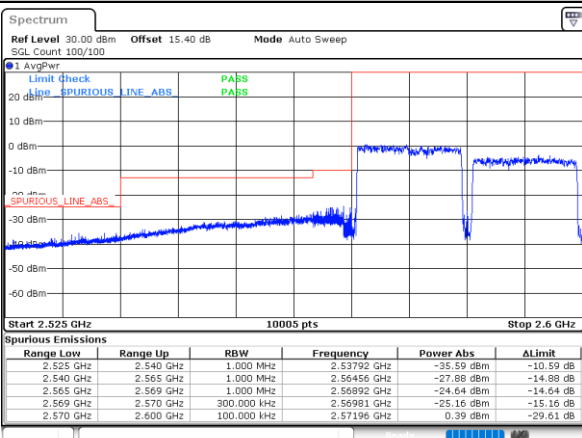
Date: 25.AUG.2022 19:28:45

Highest Band Edge / 1RB74 and 1RB0



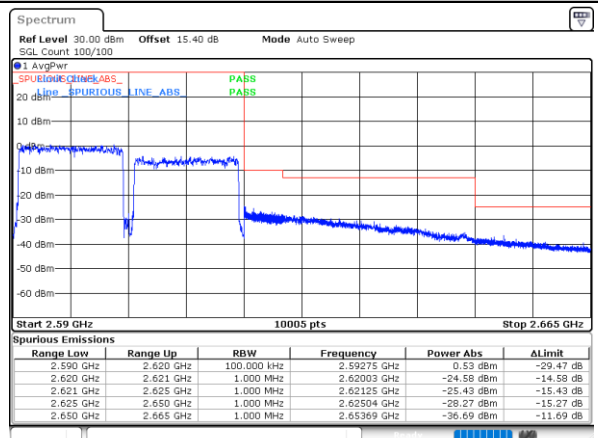
Date: 25.AUG.2022 19:09:16

Lowest Band Edge / Full RB



Date: 25.AUG.2022 19:19:40

Highest Band Edge / Full RB



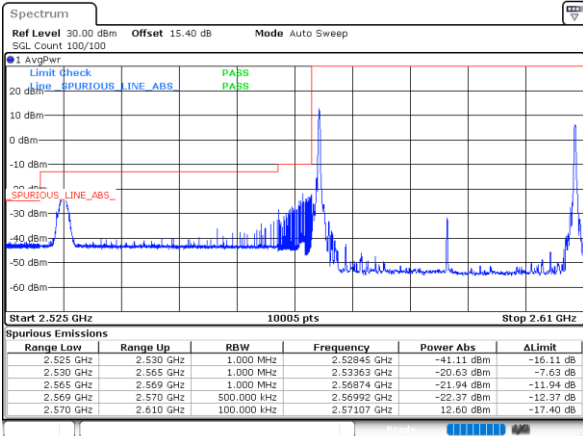
Date: 25.AUG.2022 19:00:14



LTE Band 38C / 20MHz+20MHz

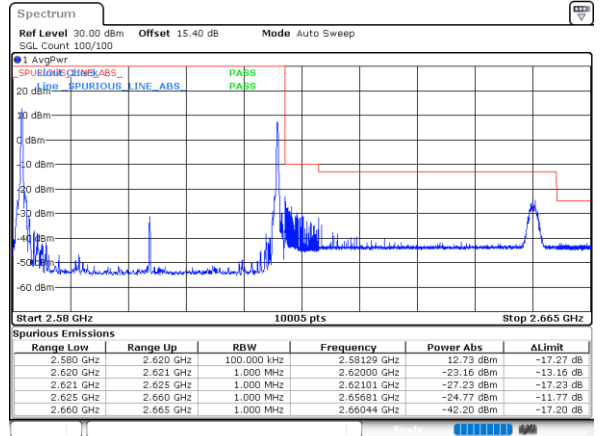
64QAM

Lowest Band Edge / 1RB0 and 1RB9



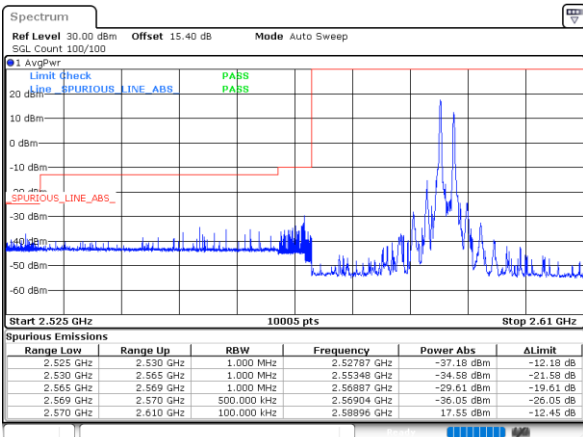
Date: 25.AUG.2022 20:00:11

Highest Band Edge / 1RB0 and 1RB9



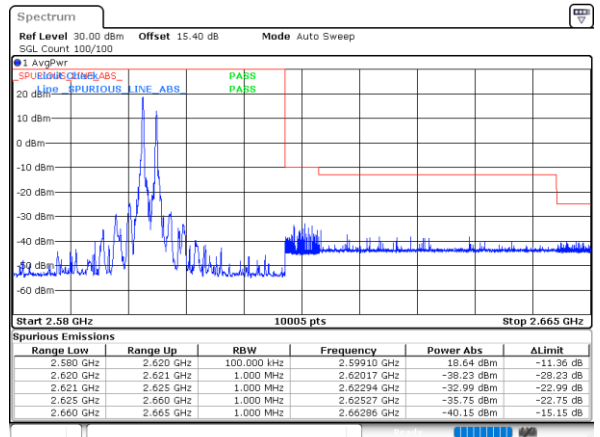
Date: 25.AUG.2022 19:40:42

Lowest Band Edge / 1RB99 and 1RB0



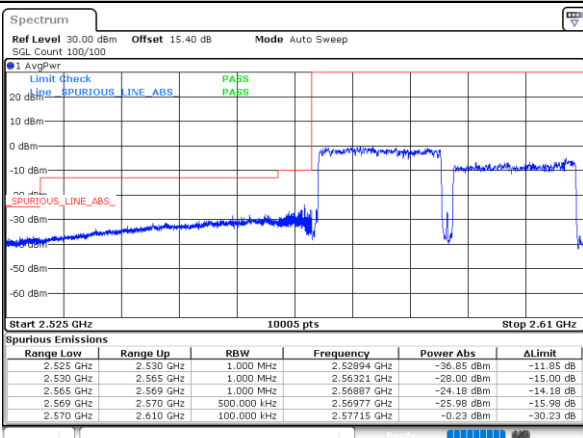
Date: 25.AUG.2022 20:04:43

Highest Band Edge / 1RB99 and 1RB0



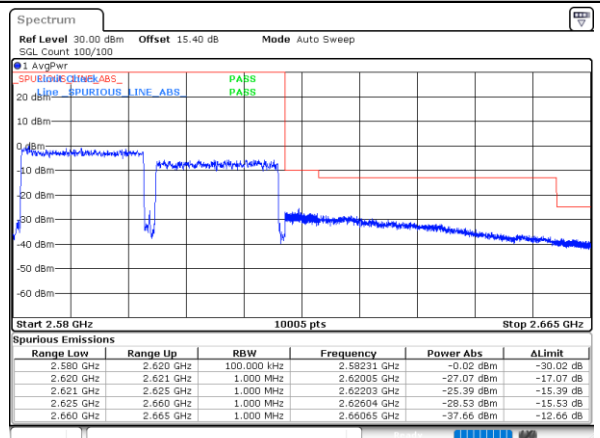
Date: 25.AUG.2022 19:45:13

Lowest Band Edge / Full RB



Date: 25.AUG.2022 19:55:38

Highest Band Edge / Full RB



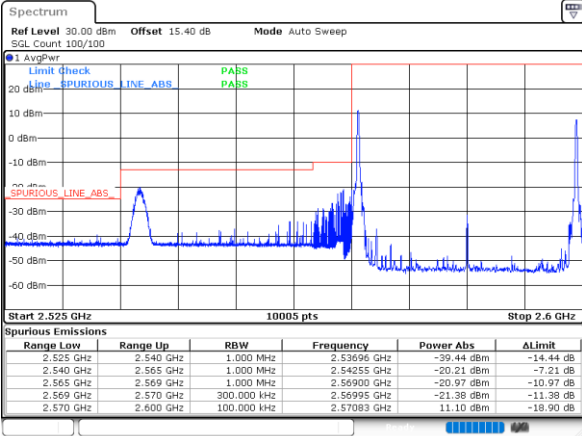
Date: 25.AUG.2022 19:36:10



LTE Band 38C / 15MHz+15MHz

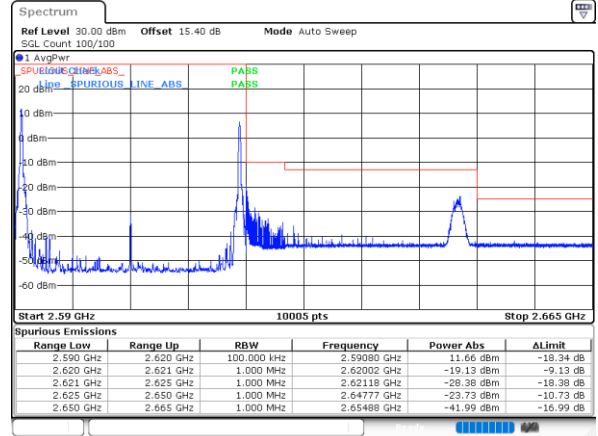
256QAM

Lowest Band Edge / 1RB0 and 1RB74



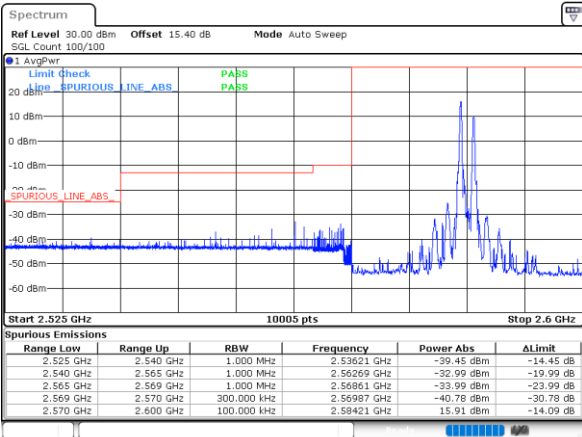
Date: 25.AUG.2022 19:25:20

Highest Band Edge / 1RB0 and 1RB74



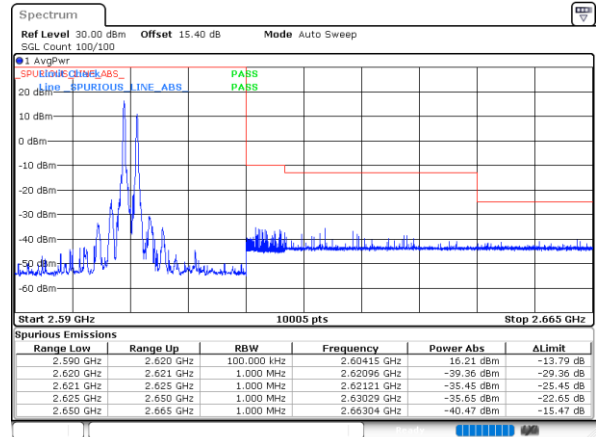
Date: 25.AUG.2022 19:05:52

Lowest Band Edge / 1RB74 and 1RB0



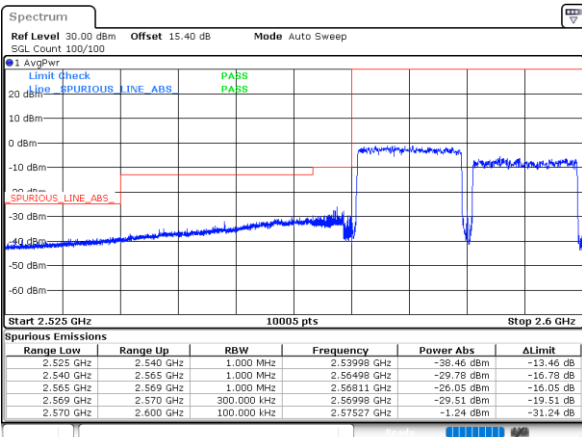
Date: 25.AUG.2022 19:29:53

Highest Band Edge / 1RB74 and 1RB0



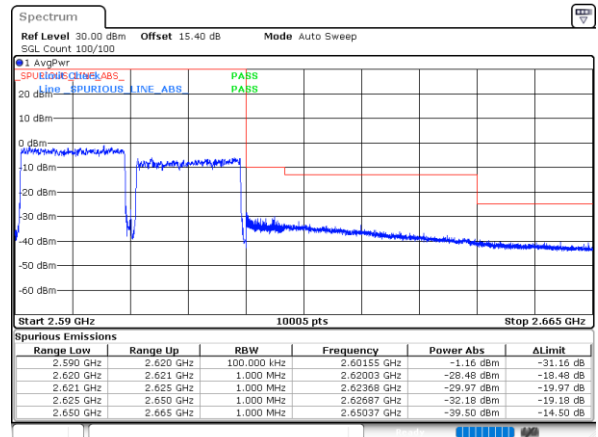
Date: 25.AUG.2022 19:10:23

Lowest Band Edge / Full RB



Date: 25.AUG.2022 19:20:47

Highest Band Edge / Full RB



Date: 25.AUG.2022 19:01:21

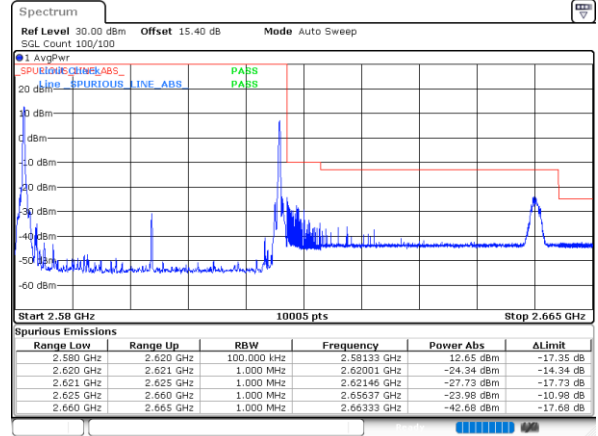
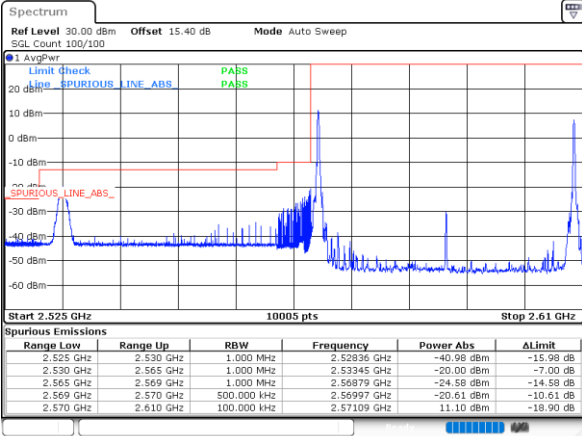


LTE Band 38C / 20MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

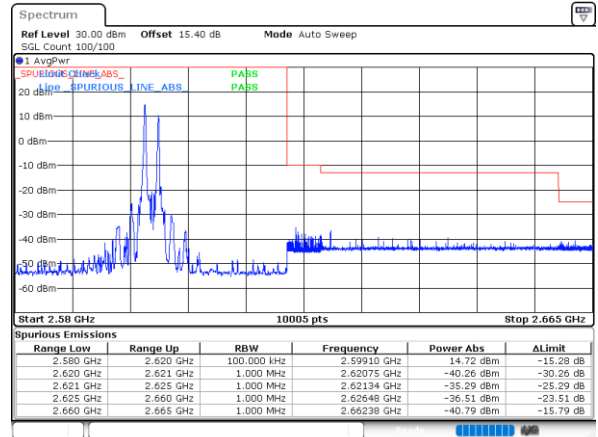
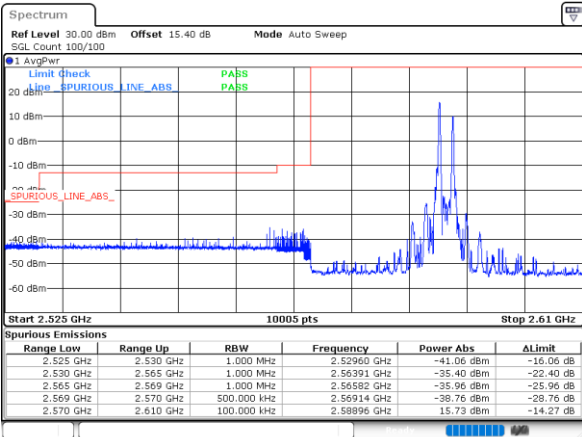


Date: 25.AUG.2022 20:01:18

Date: 25.AUG.2022 19:14:50

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

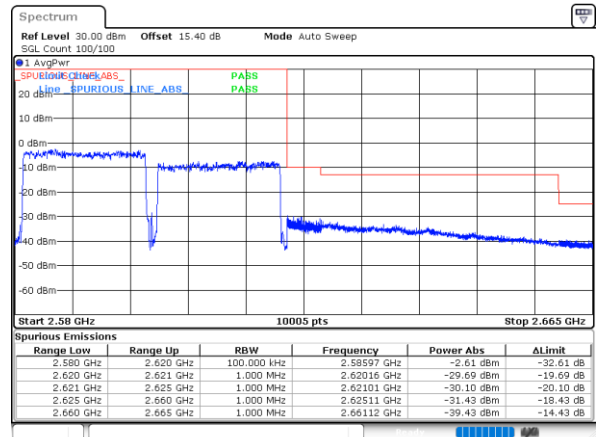
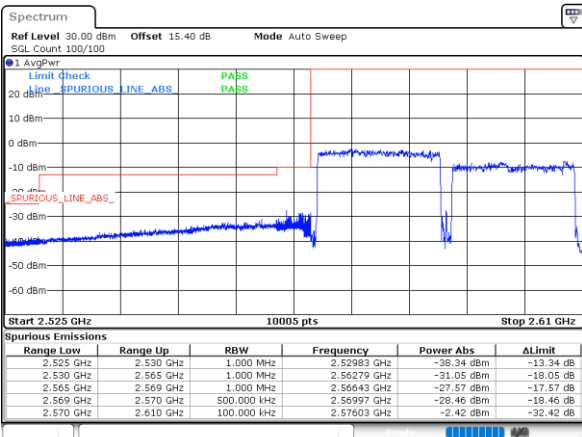


Date: 25.AUG.2022 20:05:51

Date: 25.AUG.2022 19:46:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 25.AUG.2022 19:56:46

Date: 25.AUG.2022 19:37:18



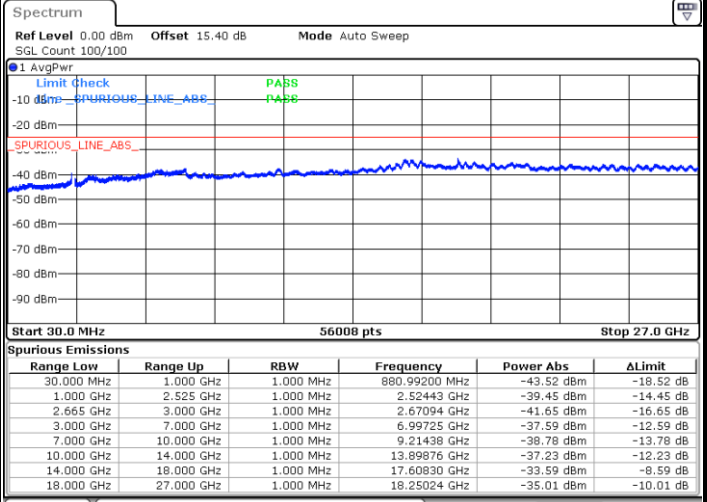
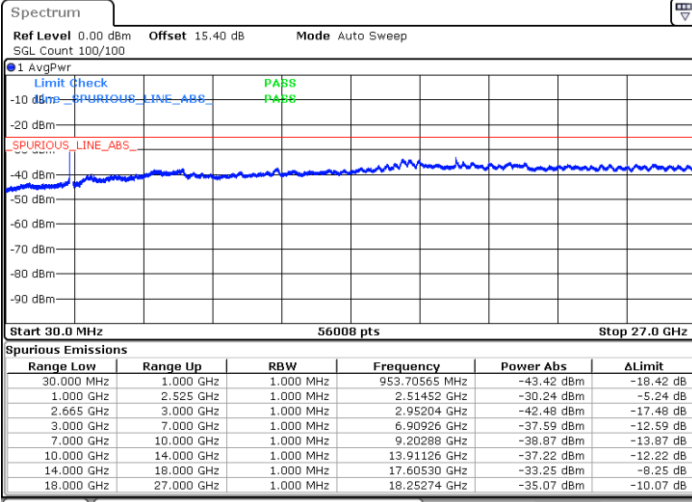
Conducted Spurious Emission

LTE Band 38C / 15MHz+15MHz

QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB74 and 1RB0

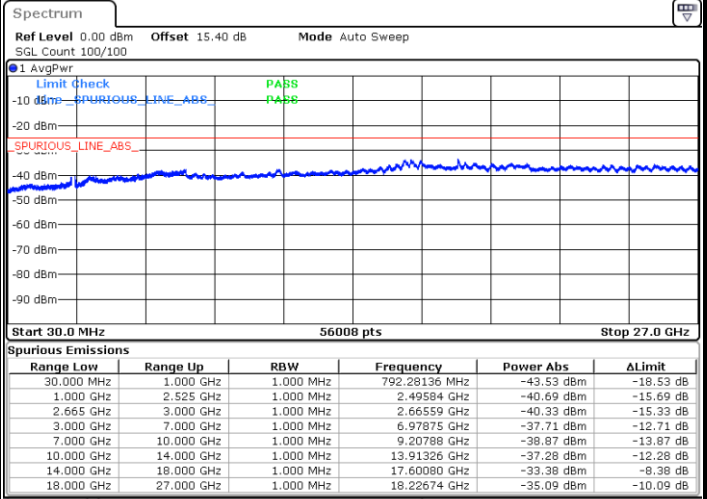
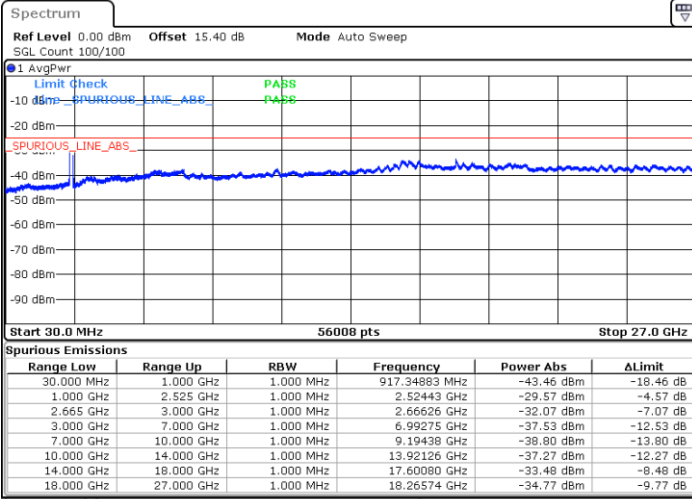


Date: 25.AUG.2022 19:32:38

Date: 25.AUG.2022 19:31:15

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB74 and 1RB0



Date: 25.AUG.2022 19:14:42

Date: 25.AUG.2022 19:16:04

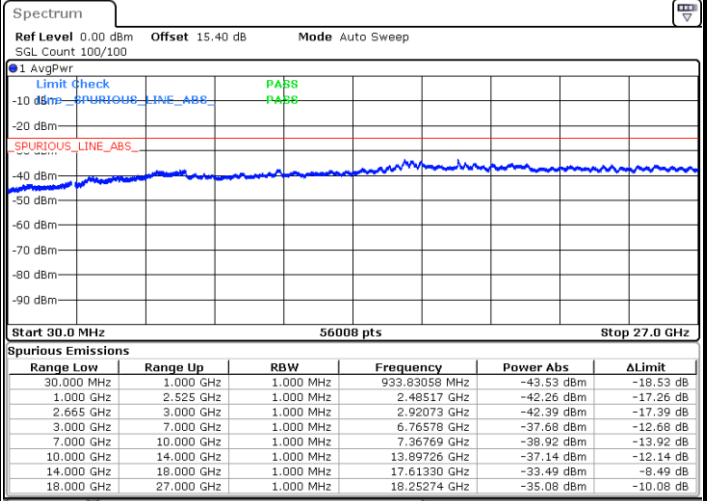
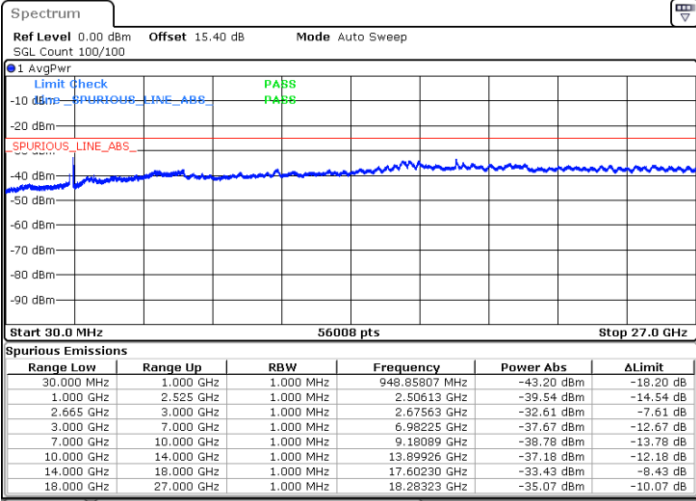


LTE Band 38C / 15MHz+15MHz

QPSK

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB74 and 1RB0



Date: 25.AUG.2022 19:13:09

Date: 25.AUG.2022 19:11:46

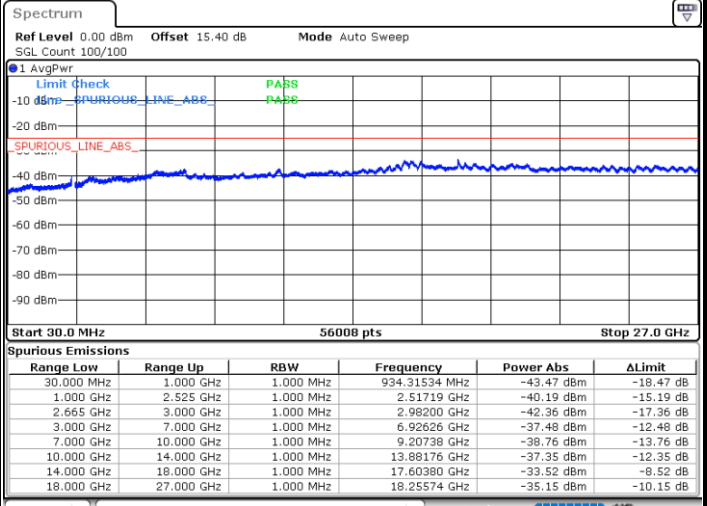
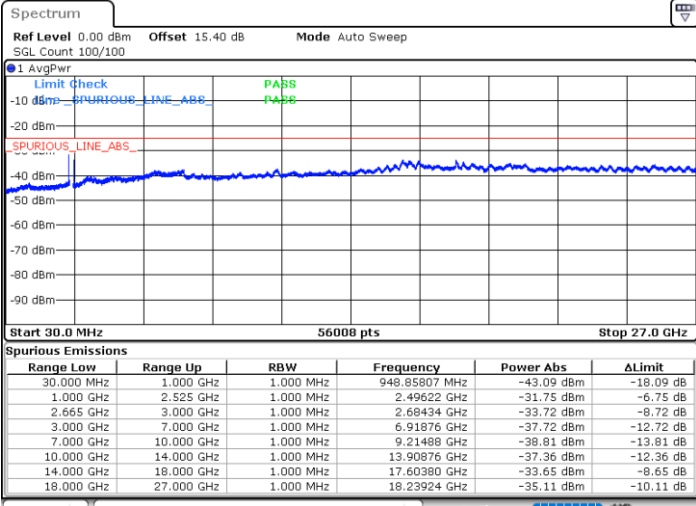


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

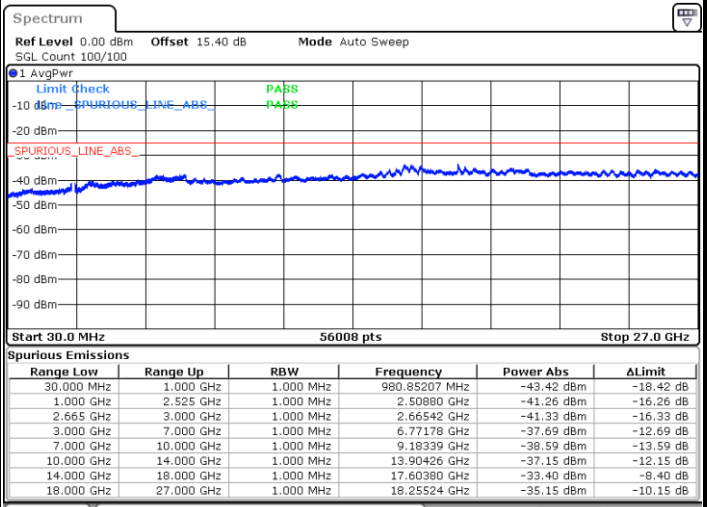
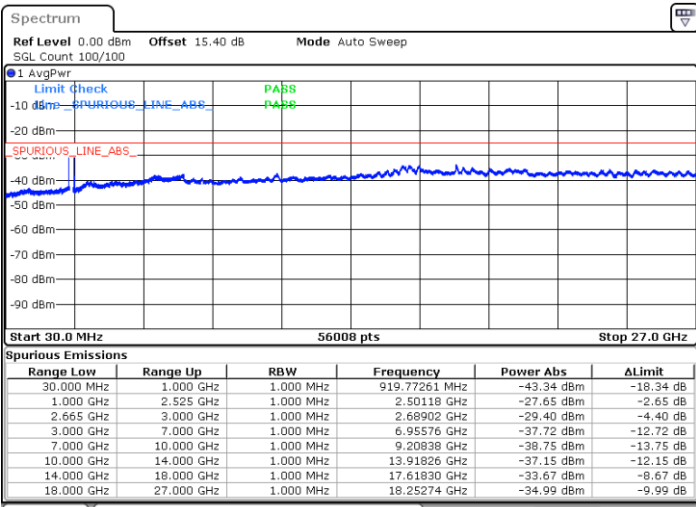


Date: 25.AUG.2022 20:08:37

Date: 25.AUG.2022 20:07:14

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



Date: 25.AUG.2022 19:50:40

Date: 25.AUG.2022 19:52:03

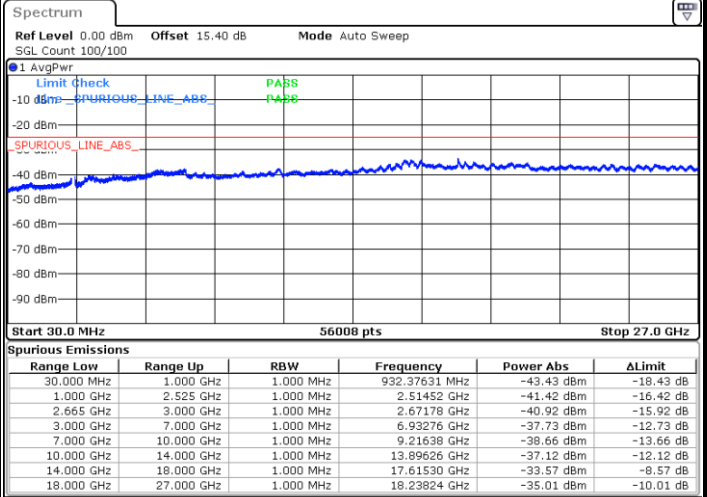
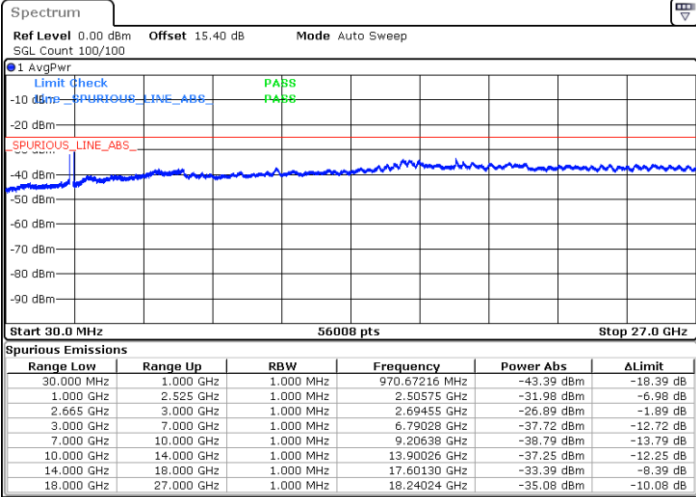


LTE Band 38C / 20MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Date: 25.AUG.2022 19:49:07

Date: 25.AUG.2022 19:47:43



LTE Band 41_HPUE

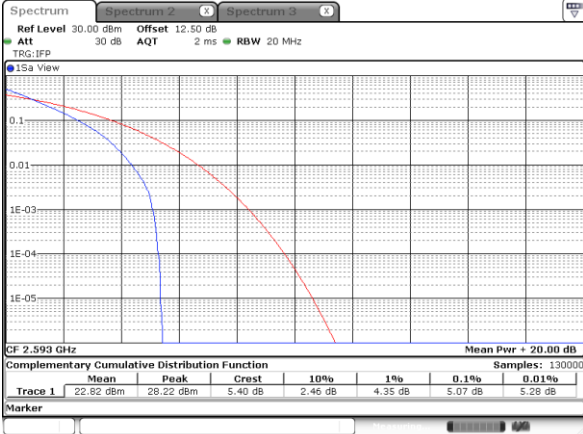
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.07	6.09	6.46	6.61	PASS



LTE Band 41 / 20MHz / QPSK

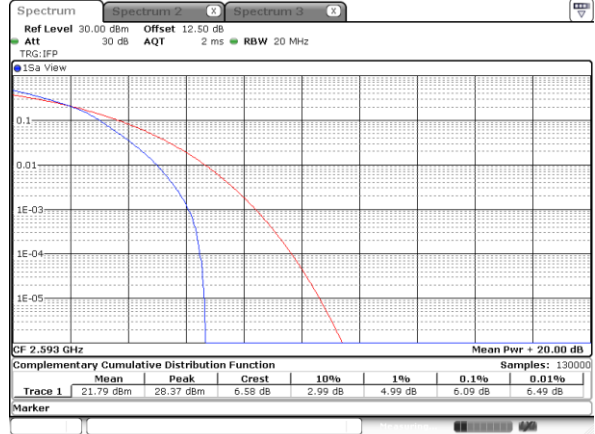
Middle Channel / Full RB



Date: 29_SEP.2022 14:03:58

LTE Band 41 / 20MHz / 16QAM

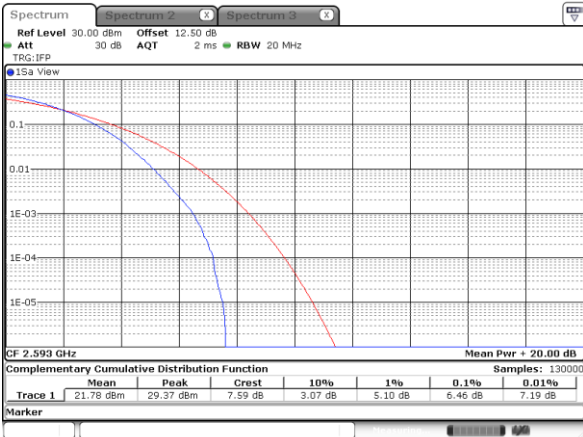
Middle Channel / Full RB



Date: 29_SEP.2022 14:03:28

LTE Band 41 / 20MHz / 64QAM

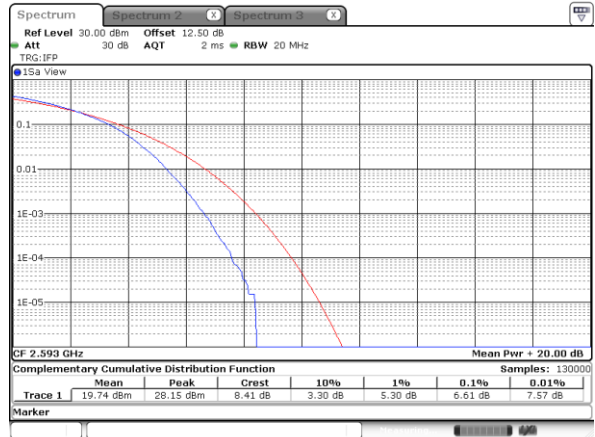
Middle Channel / Full RB



Date: 29_SEP.2022 14:02:58

LTE Band 41 / 20MHz / 256QAM

Middle Channel / Full RB



Date: 29_SEP.2022 14:07:29



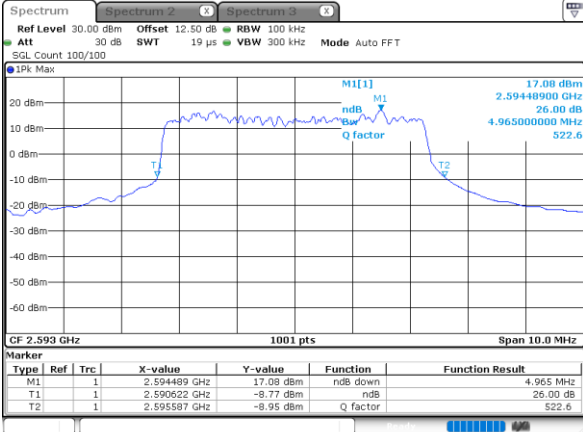
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.97	5.04	9.87	9.85	14.54	14.33	18.94	19.14
Mode	LTE Band 41 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.92	4.91	9.63	9.85	14.15	14.78	19.34	19.18



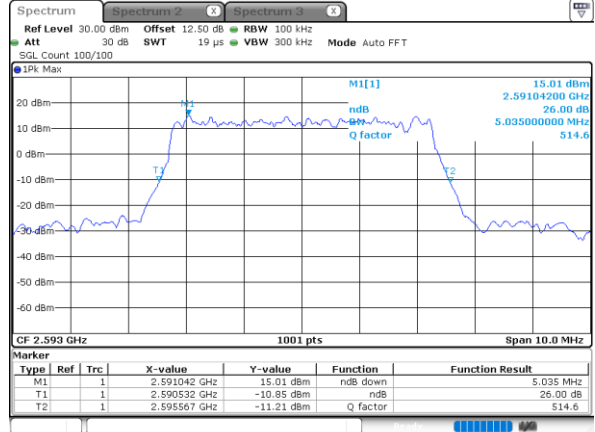
LTE Band 41

Middle Channel / 5MHz / QPSK



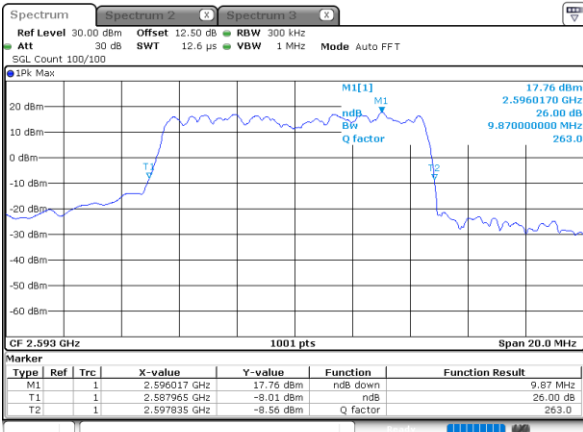
Date: 29_SEP.2022 13:53:16

Middle Channel / 5MHz / 16QAM



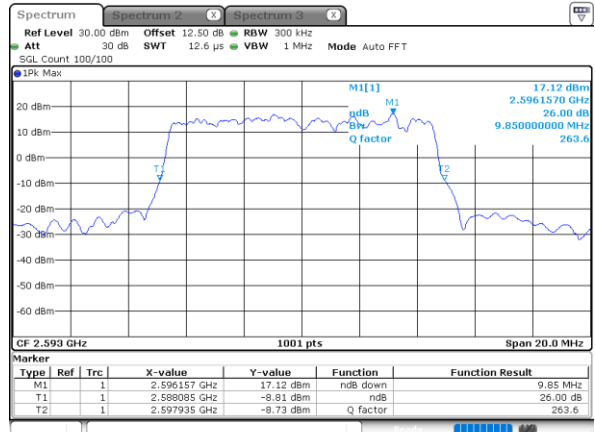
Date: 29_SEP.2022 13:53:45

Middle Channel / 10MHz / QPSK



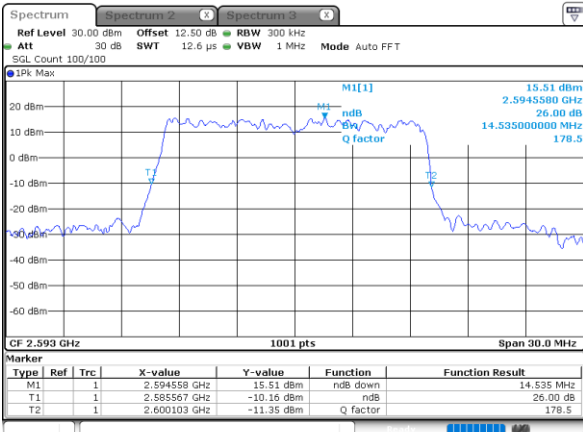
Date: 29_SEP.2022 13:56:00

Middle Channel / 10MHz / 16QAM



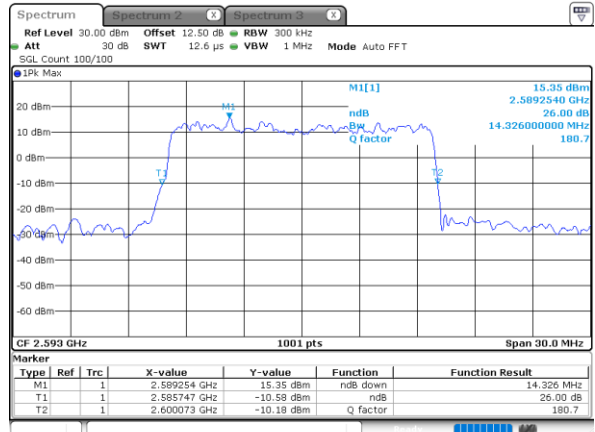
Date: 29_SEP.2022 13:56:29

Middle Channel / 15MHz / QPSK



Date: 29_SEP.2022 13:58:45

Middle Channel / 15MHz / 16QAM

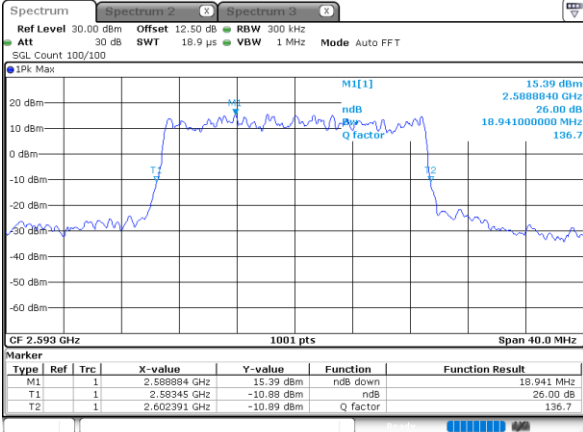


Date: 29_SEP.2022 13:59:14



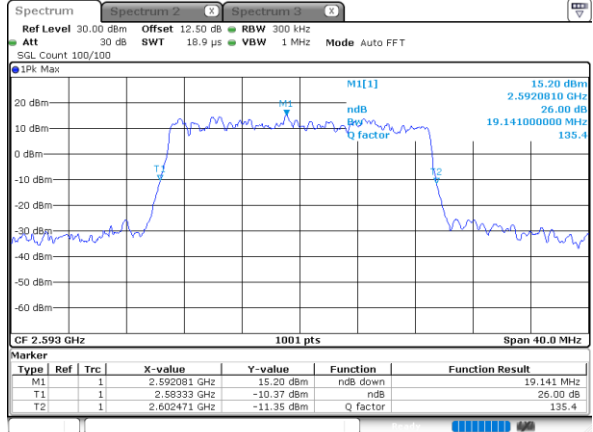
LTE Band 41

Middle Channel / 20MHz / QPSK



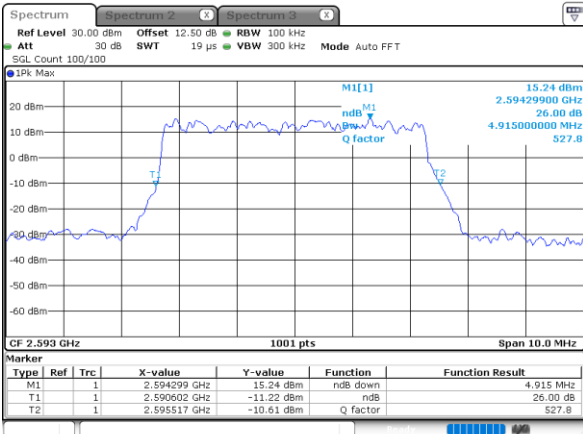
Date: 29_SEP.2022 14:01:30

Middle Channel / 20MHz / 16QAM



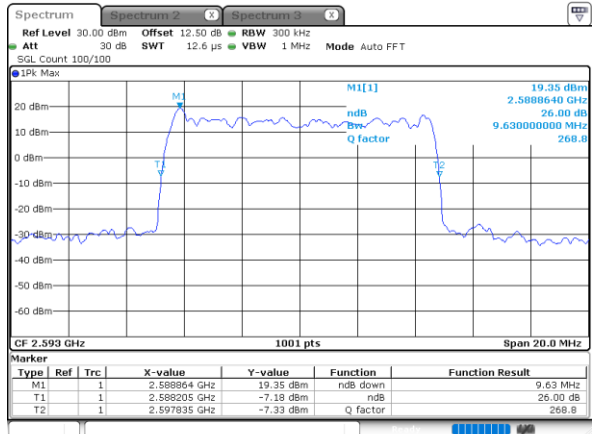
Date: 29_SEP.2022 14:01:59

Middle Channel / 5MHz / 64QAM



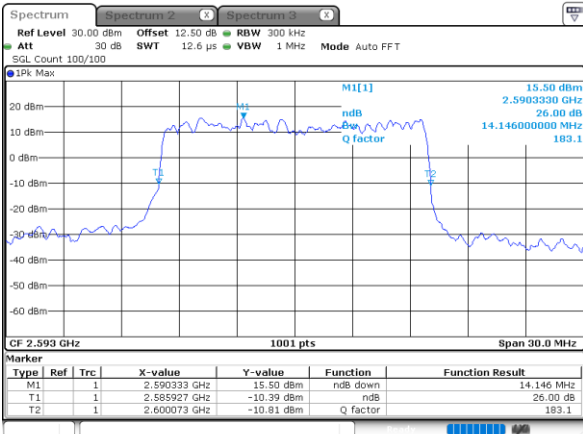
Date: 29_SEP.2022 13:54:28

Middle Channel / 10MHz / 64QAM



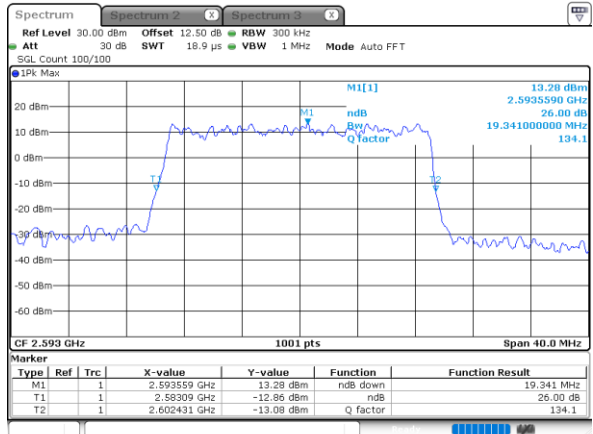
Date: 29_SEP.2022 13:57:12

Middle Channel / 15MHz / 64QAM



Date: 29_SEP.2022 13:59:57

Middle Channel / 20MHz / 64QAM

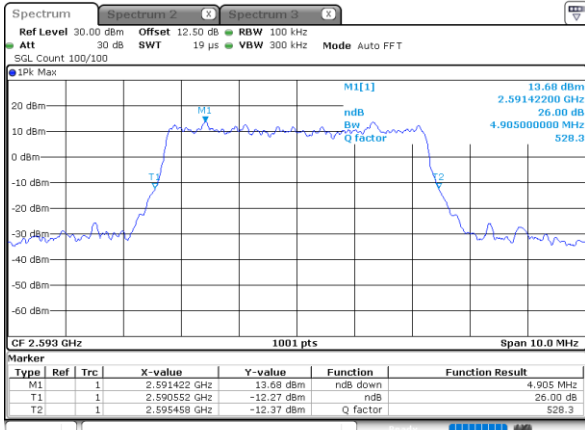


Date: 29_SEP.2022 14:02:42



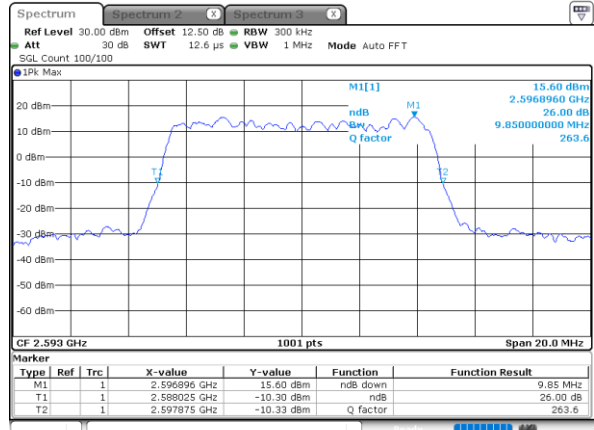
LTE Band 41

Middle Channel / 5MHz / 256QAM



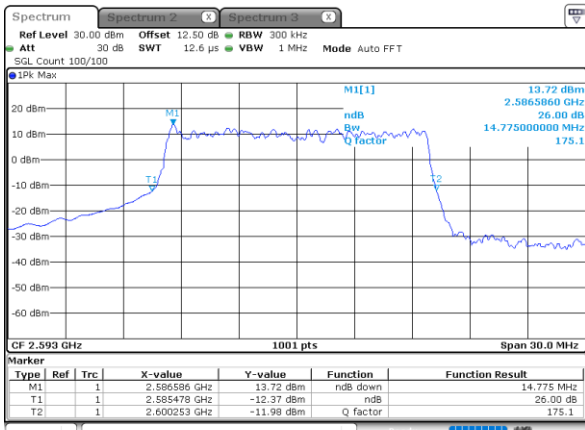
Date: 29_SEP.2022 14:04:47

Middle Channel / 10MHz / 256QAM



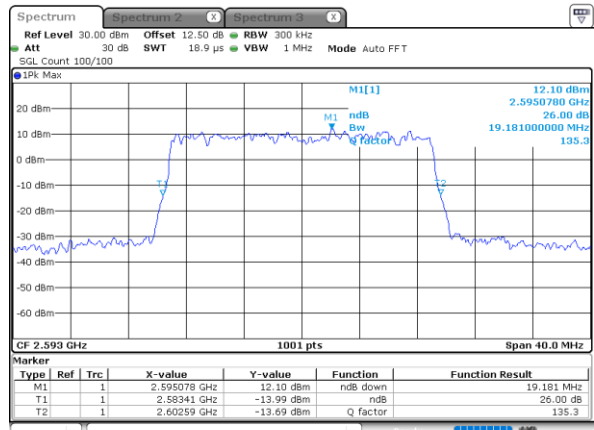
Date: 29_SEP.2022 14:05:136

Middle Channel / 15MHz / 256QAM



Date: 29_SEP.2022 14:06:25

Middle Channel / 20MHz / 256QAM



Date: 29_SEP.2022 14:07:13



Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.49	9.05	9.05	13.49	13.43	17.98	17.94
Mode	LTE Band 41 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.48	4.50	9.01	9.01	13.46	13.46	17.86	17.94