

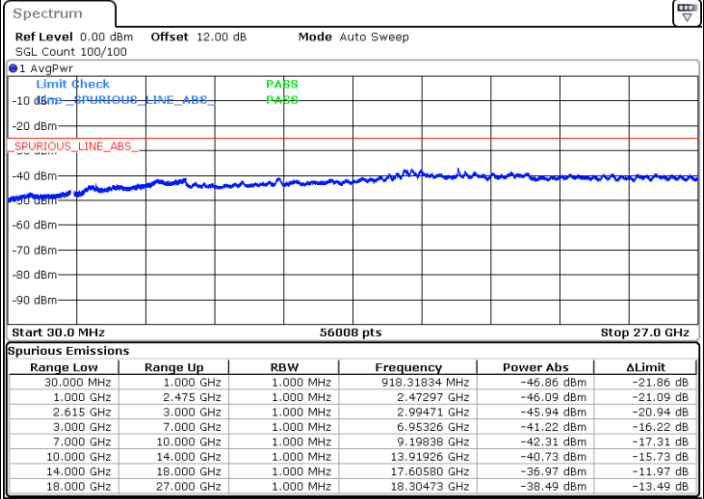
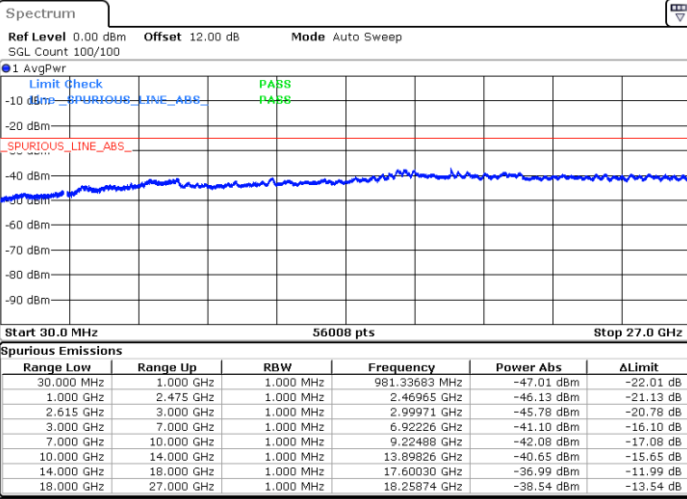


LTE Band 7C / 15MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB74 and 1RB0

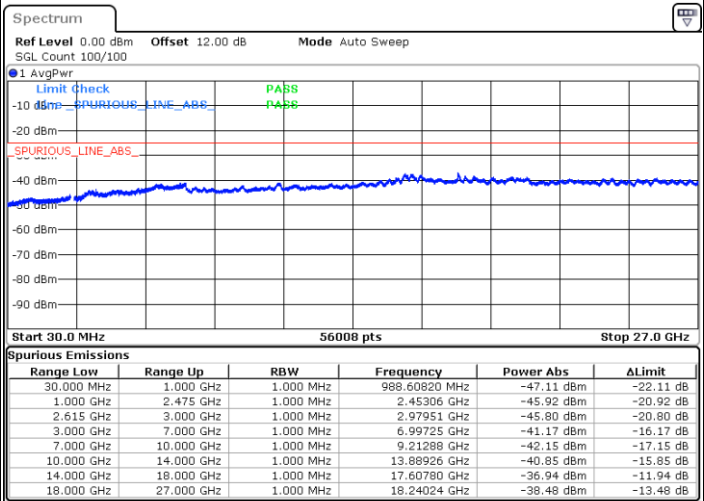
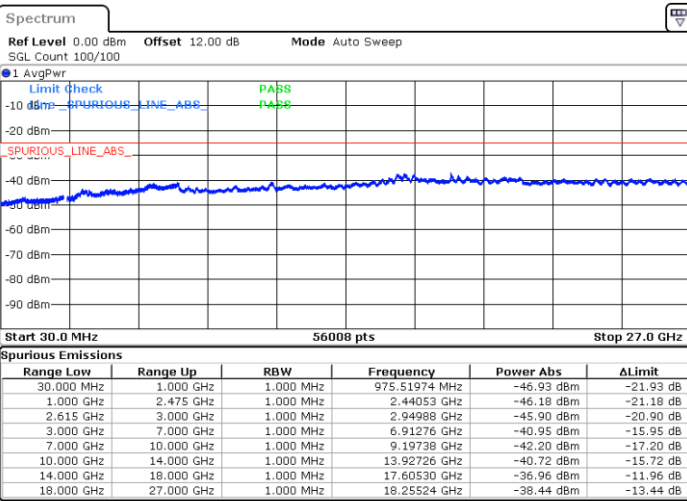


Date: 9.APR.2022 15:02:21

Date: 9.APR.2022 15:01:01

Middle Channel / 1RB0 and 1RB99

Middle Channel / 1RB74 and 1RB0



Date: 9.APR.2022 15:09:38

Date: 9.APR.2022 15:10:58

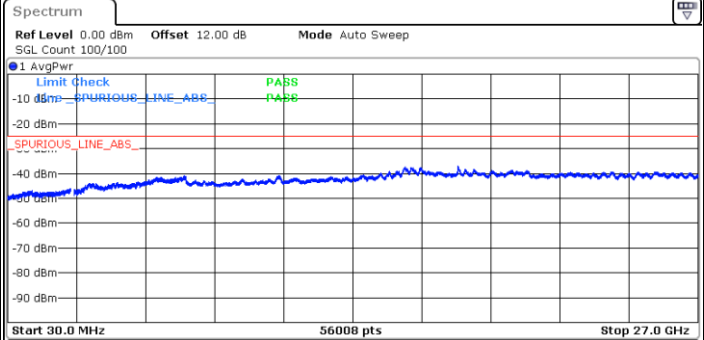
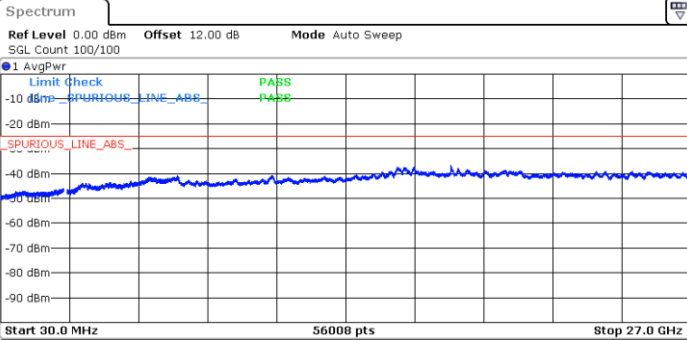


LTE Band 7C / 15MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB74 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.88256 MHz	-47.05 dBm	-22.05 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.45970 GHz	-46.03 dBm	-21.03 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.98721 GHz	-45.92 dBm	-20.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92176 GHz	-41.00 dBm	-16.00 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.18989 GHz	-42.20 dBm	-17.20 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.92626 GHz	-40.65 dBm	-15.65 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60330 GHz	-36.79 dBm	-11.79 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.25974 GHz	-38.42 dBm	-13.42 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	988.60820 MHz	-46.99 dBm	-21.99 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.46486 GHz	-46.13 dBm	-21.13 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.97682 GHz	-45.66 dBm	-20.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94326 GHz	-40.99 dBm	-15.99 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.21088 GHz	-42.16 dBm	-17.16 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.92976 GHz	-40.60 dBm	-15.60 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60480 GHz	-36.97 dBm	-11.97 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.24224 GHz	-38.40 dBm	-13.40 dB

Date: 9.APR.2022 14:23:14

Date: 9.APR.2022 14:21:54

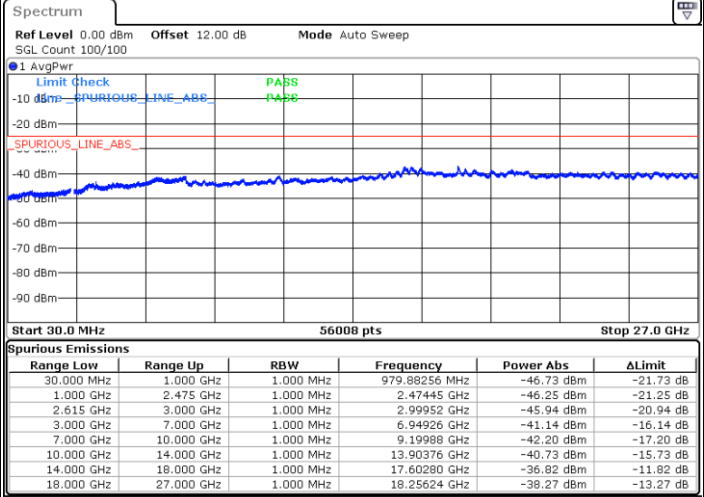
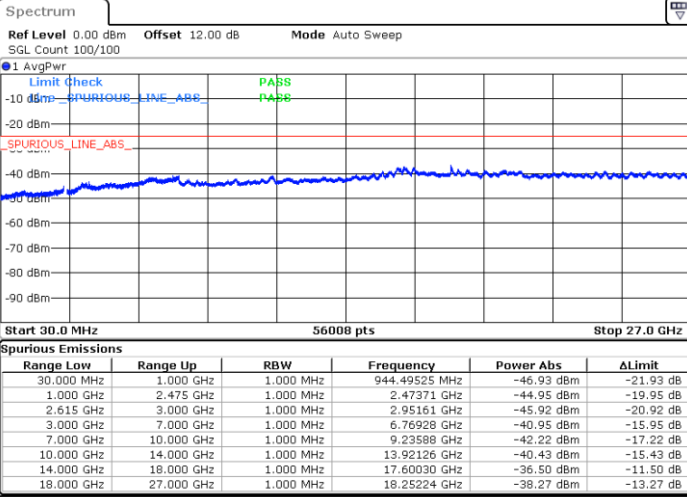


LTE Band 7C / 20MHz+10MHz

QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB99 and 1RB0

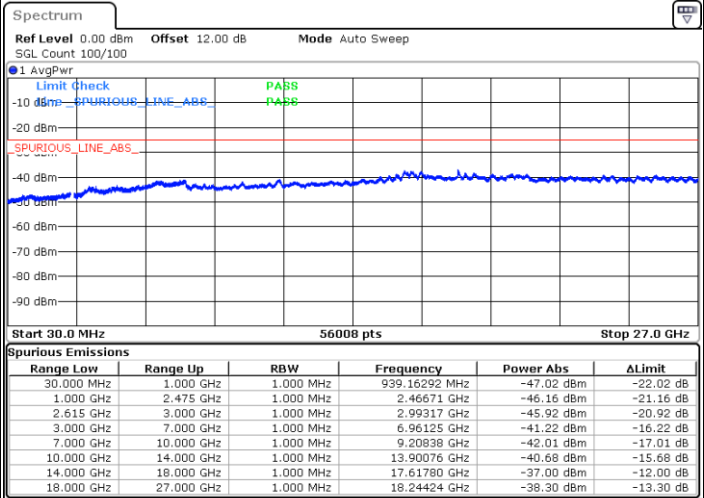
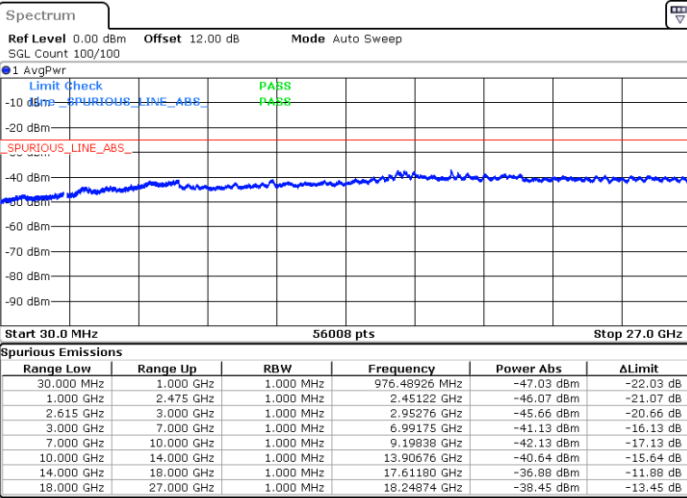


Date: 9.APR.2022 12:51:06

Date: 9.APR.2022 12:49:46

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB99 and 1RB0



Date: 9.APR.2022 12:58:38

Date: 9.APR.2022 12:59:58

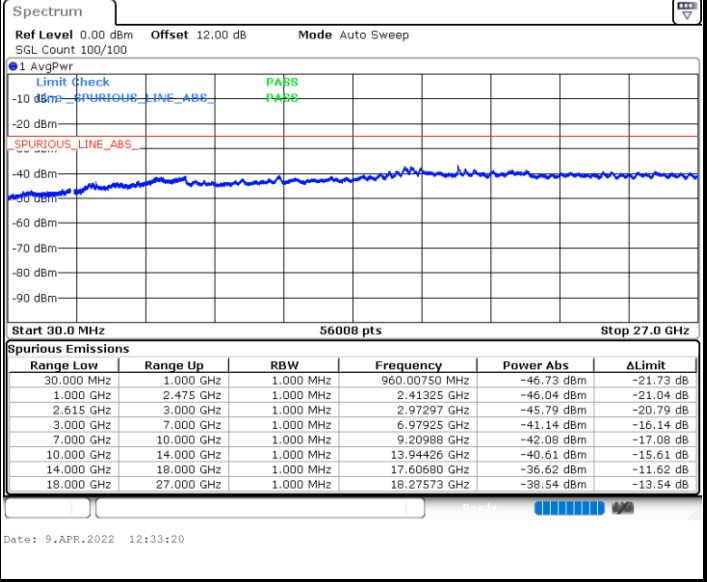
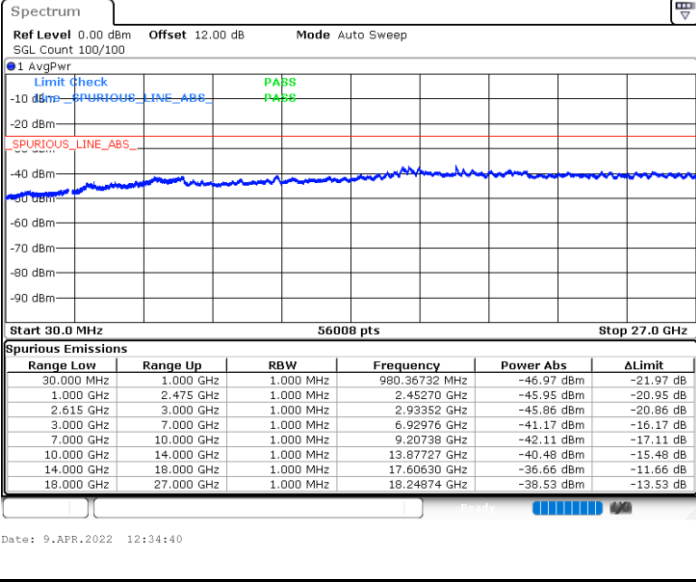


LTE Band 7C / 20MHz+10MHz

QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB99 and 1RB0



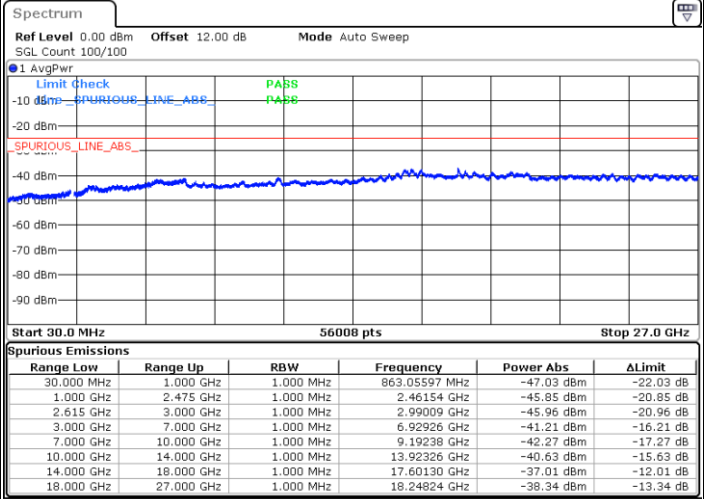
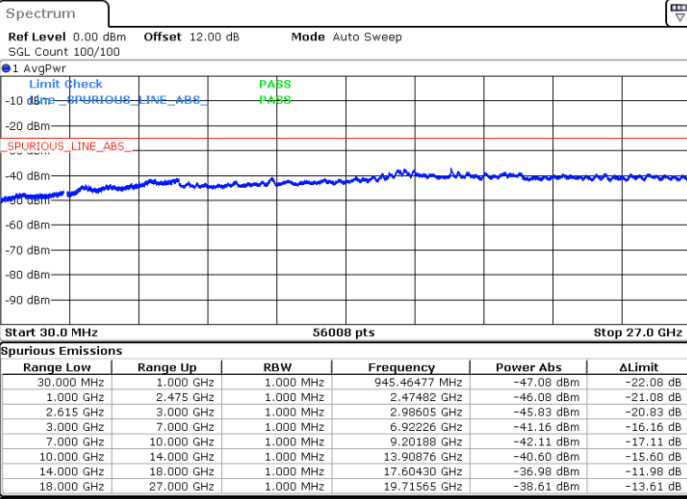


LTE Band 7C / 20MHz+15MHz

QPSK

Lowest Channel / 1RB0 and 1RB74

Lowest Channel / 1RB99 and 1RB0

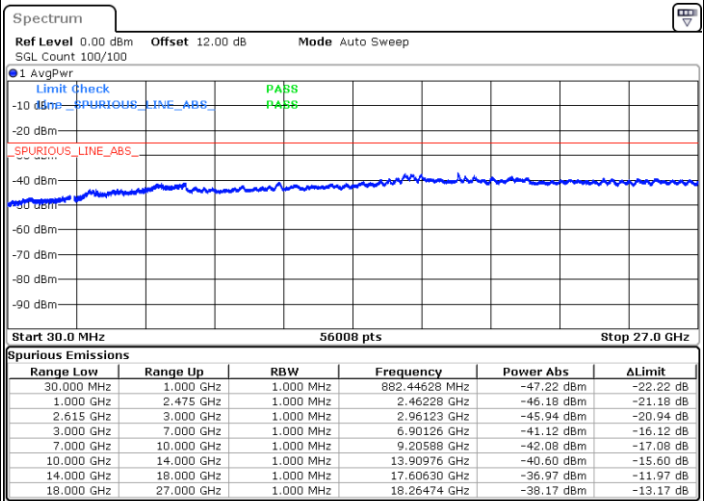
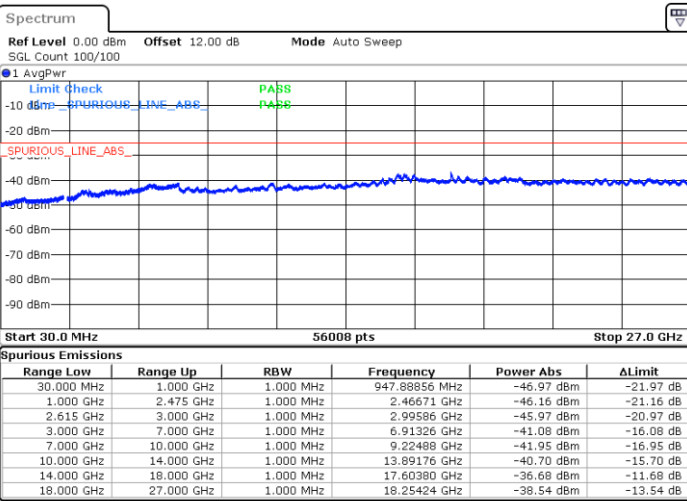


Date: 9.APR.2022 15:43:11

Date: 9.APR.2022 15:41:51

Middle Channel / 1RB0 and 1RB74

Middle Channel / 1RB99 and 1RB0



Date: 9.APR.2022 15:51:17

Date: 9.APR.2022 15:52:36

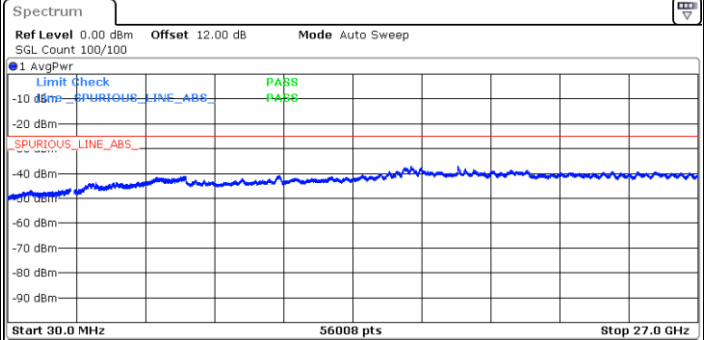
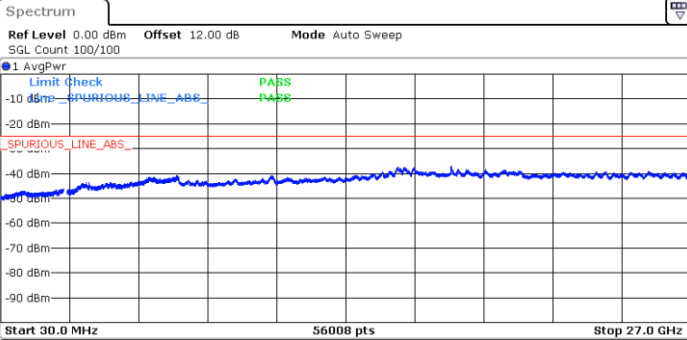


LTE Band 7C / 20MHz+15MHz

QPSK

Highest Channel / 1RB0 and 1RB74

Highest Channel / 1RB99 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	984.24538 MHz	-47.06 dBm	-22.06 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47150 GHz	-46.03 dBm	-21.03 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.99471 GHz	-45.78 dBm	-20.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89876 GHz	-41.00 dBm	-16.00 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.17039 GHz	-42.23 dBm	-17.23 dB
10.000 GHz	14.000 GHz	1.000 MHz	10.63467 GHz	-40.69 dBm	-15.69 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.61430 GHz	-36.86 dBm	-11.86 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.24124 GHz	-38.22 dBm	-13.22 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	963.88556 MHz	-46.68 dBm	-21.68 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47334 GHz	-46.19 dBm	-21.19 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.98951 GHz	-45.80 dBm	-20.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98925 GHz	-41.19 dBm	-16.19 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.18339 GHz	-42.05 dBm	-17.05 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.90426 GHz	-40.58 dBm	-15.58 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60130 GHz	-37.00 dBm	-12.00 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.23774 GHz	-38.36 dBm	-13.36 dB

Date: 9.APR.2022 15:27:05

Date: 9.APR.2022 15:25:45

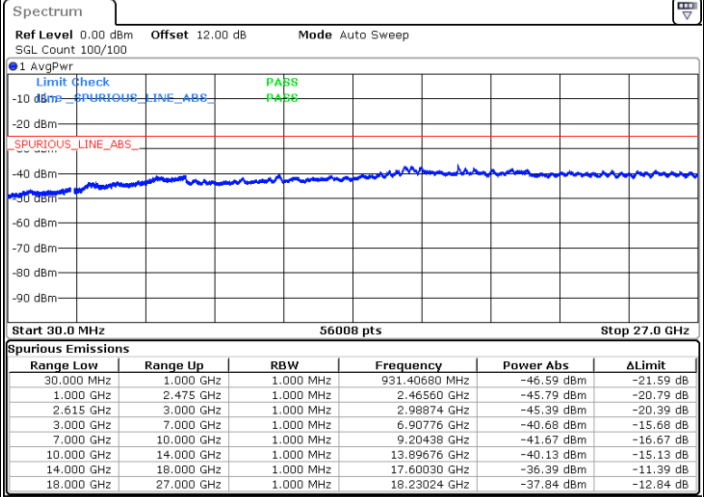
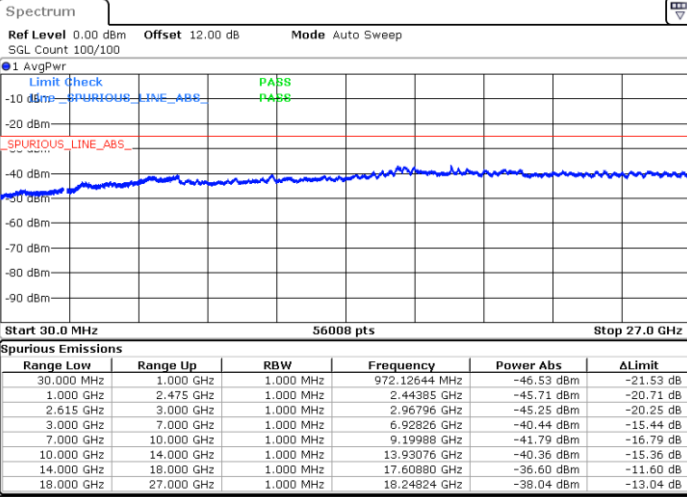


LTE Band 7C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB0 and 1RB99

Lowest Channel / 1RB99 and 1RB0

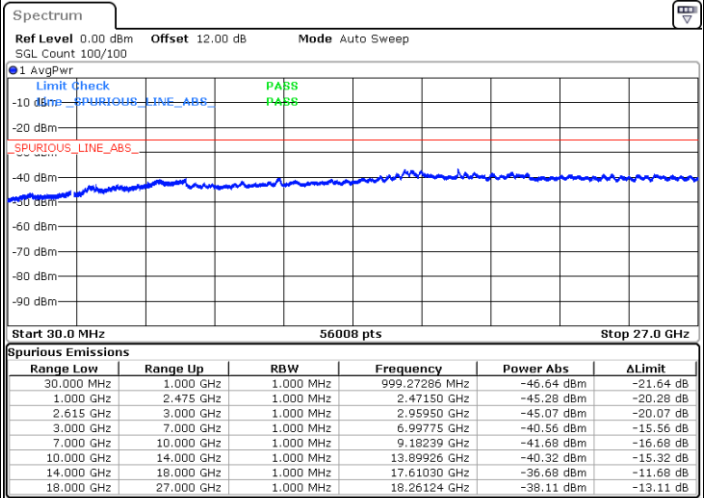
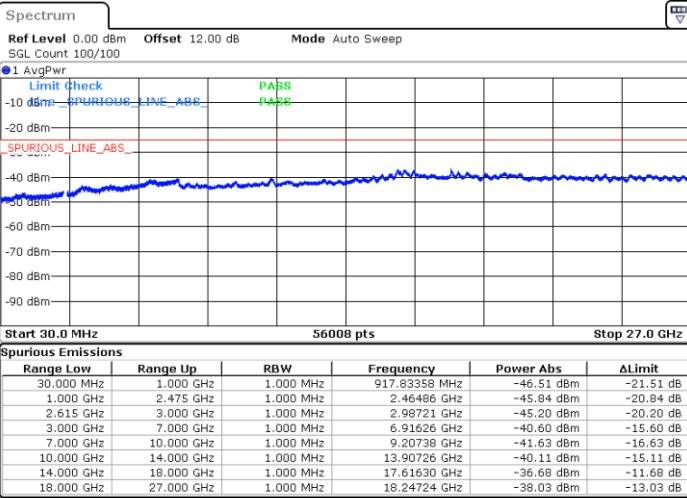


Date: 11.APR.2022 10:12:15

Date: 11.APR.2022 10:10:54

MiddleChannel / 1RB0 and 1RB99

Middle Channel / 1RB99 and 1RB0



Date: 11.APR.2022 10:19:46

Date: 11.APR.2022 10:21:06

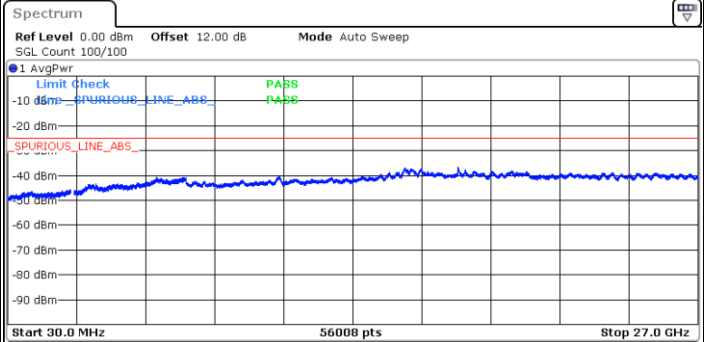
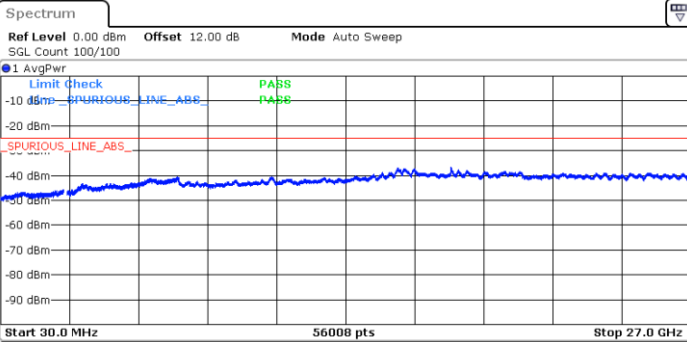


LTE Band 7C / 20MHz+20MHz

QPSK

Highest Channel / 1RB0 and 1RB99

Highest Channel / 1RB99 and 1RB0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	993.94053 MHz	-46.69 dBm	-21.69 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47224 GHz	-45.66 dBm	-20.66 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.98721 GHz	-45.51 dBm	-20.51 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91976 GHz	-40.66 dBm	-15.66 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.18139 GHz	-41.73 dBm	-16.73 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.90376 GHz	-40.31 dBm	-15.31 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.61180 GHz	-36.60 dBm	-11.60 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.24924 GHz	-38.01 dBm	-13.01 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	975.03498 MHz	-46.44 dBm	-21.44 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47445 GHz	-45.81 dBm	-20.81 dB
2.615 GHz	3.000 GHz	1.000 MHz	2.97393 GHz	-45.28 dBm	-20.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98675 GHz	-40.71 dBm	-15.71 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.22138 GHz	-41.76 dBm	-16.76 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.90126 GHz	-40.14 dBm	-15.14 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.60030 GHz	-36.79 dBm	-11.79 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.73415 GHz	-37.94 dBm	-12.94 dB

Date: 11.APR.2022 09:55:45

Date: 11.APR.2022 09:54:24

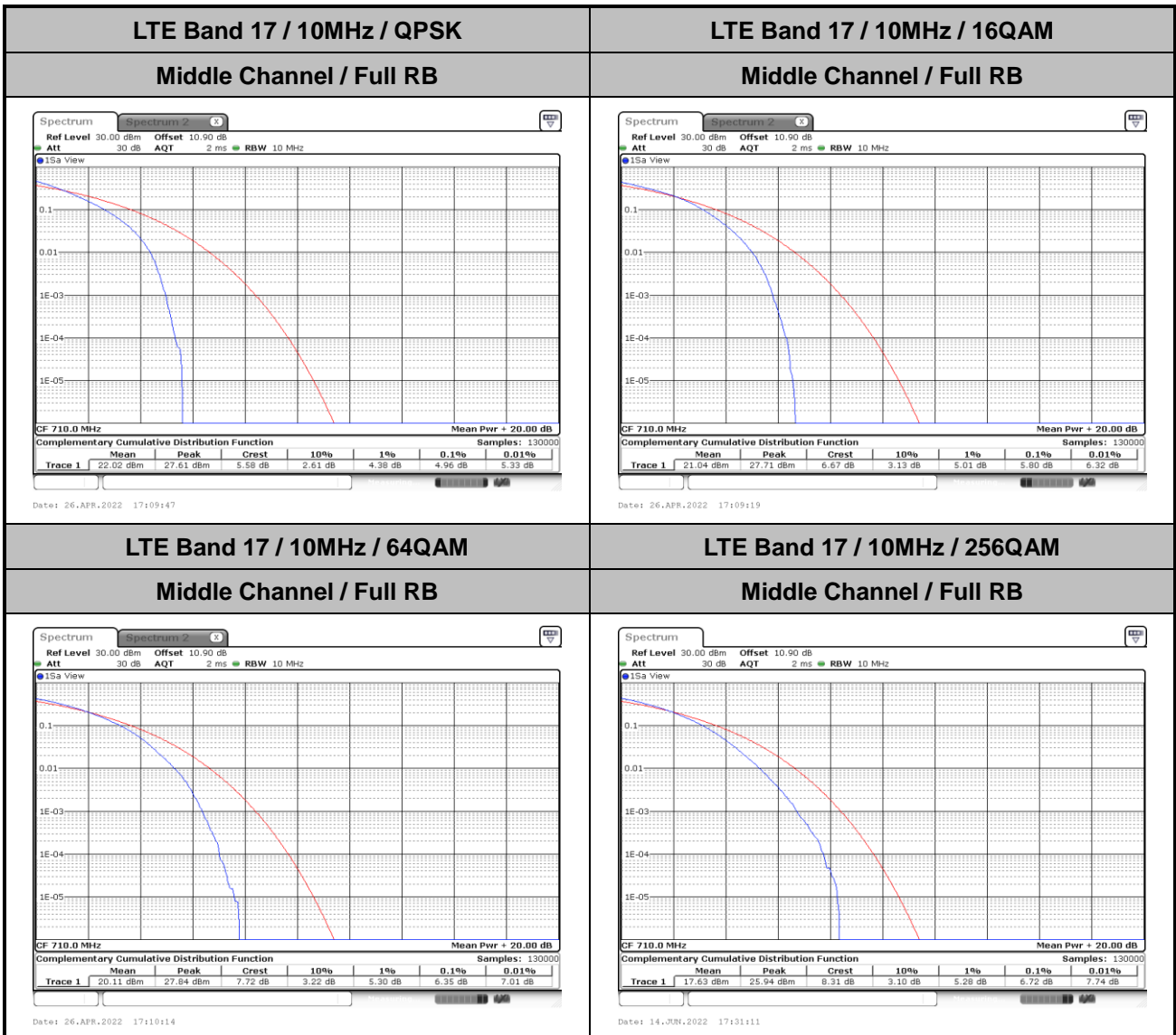




# LTE Band 17

## Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.80	6.35	6.72	PASS





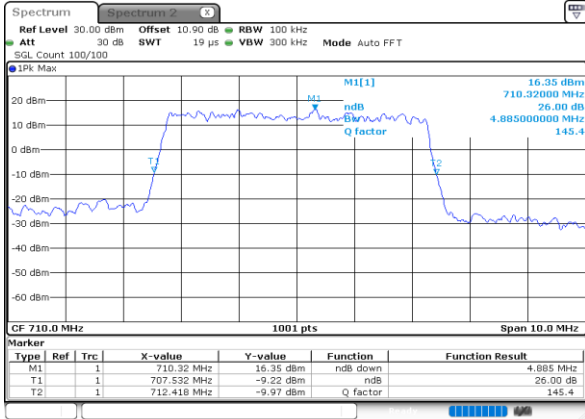
**26dB Bandwidth**

Mode	LTE Band 17 : 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	-	-	-	-	4.89	4.91	9.69	9.85	-	-	-	-
Mode	LTE Band 17 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.88	4.94	9.75	9.71	-	-	-	-



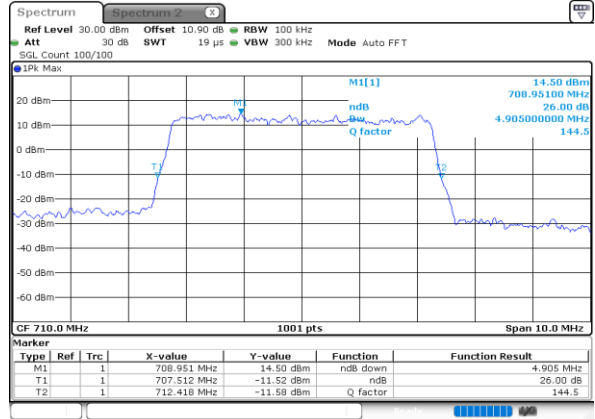
LTE Band 17

Middle Channel / 5MHz / QPSK



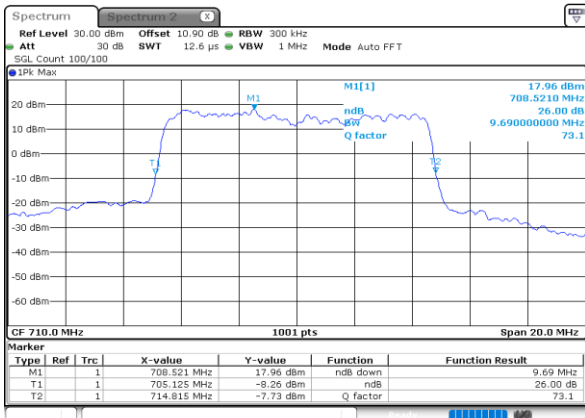
Date: 26.APR.2022 16:41:46

Middle Channel / 5MHz / 16QAM



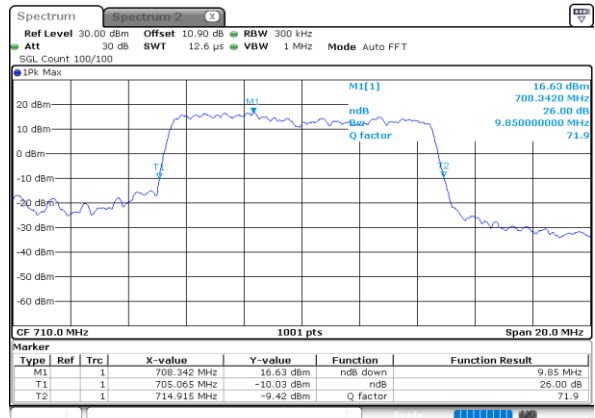
Date: 26.APR.2022 16:42:12

Middle Channel / 10MHz / QPSK



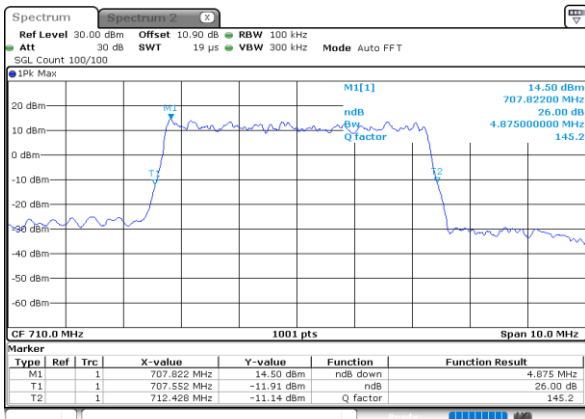
Date: 26.APR.2022 16:53:53

Middle Channel / 10MHz / 16QAM



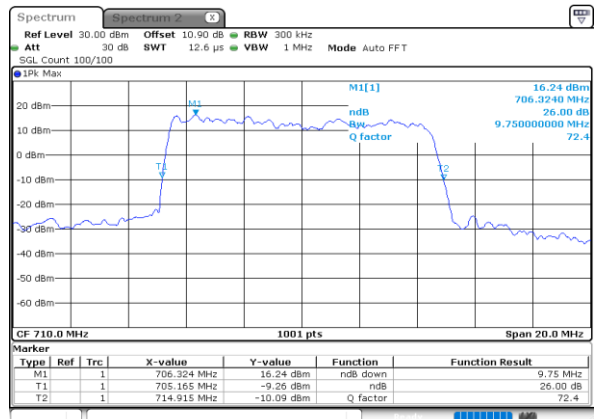
Date: 26.APR.2022 16:54:19

Middle Channel / 5MHz / 64QAM



Date: 26.APR.2022 17:02:30

Middle Channel / 10MHz / 64QAM



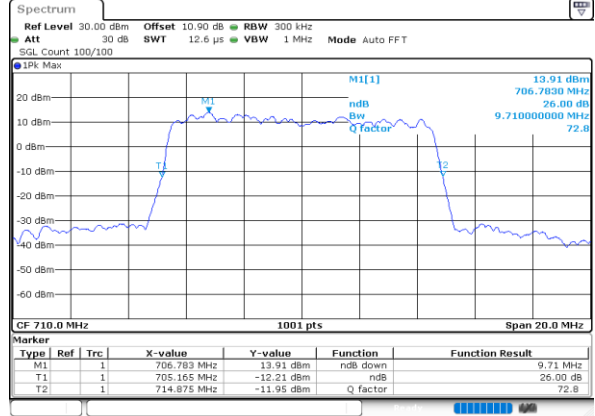
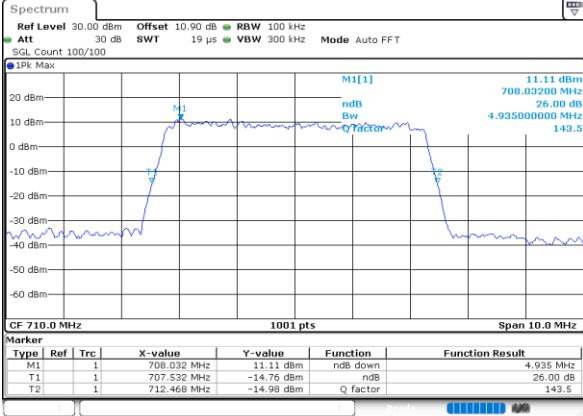
Date: 26.APR.2022 17:07:00



LTE Band 17

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 14 JUN 2022 17:16:46

Date: 14 JUN 2022 17:28:39



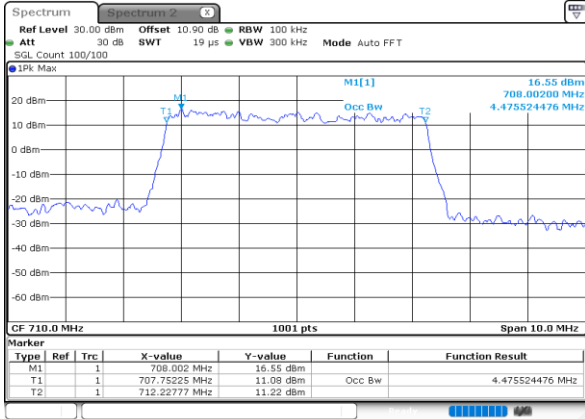
**Occupied Bandwidth**

Mode	LTE Band 17 : 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	4.50	9.07	9.05	-	-	-	-
Mode	LTE Band 17 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.50	4.50	9.11	9.05	-	-	-	-



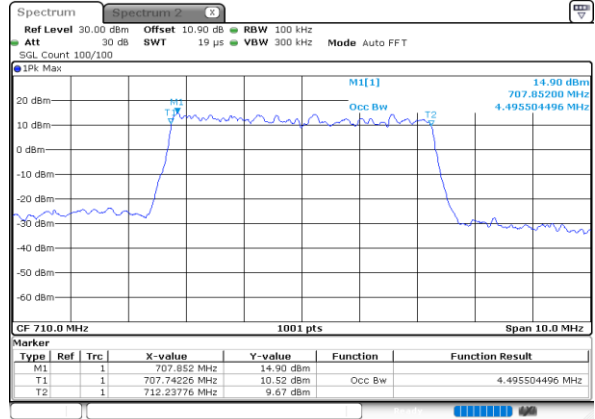
LTE Band 17

Middle Channel / 5MHz / QPSK



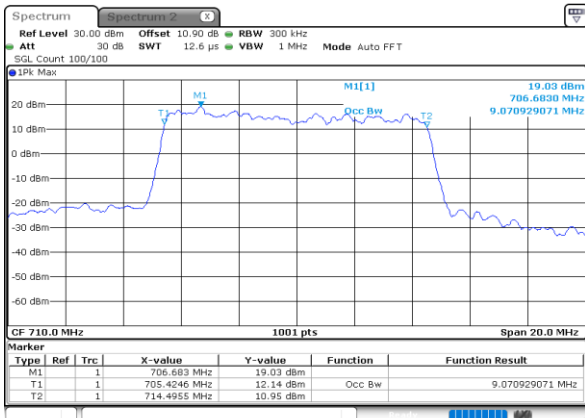
Date: 26.APR.2022 16:40:54

Middle Channel / 5MHz / 16QAM



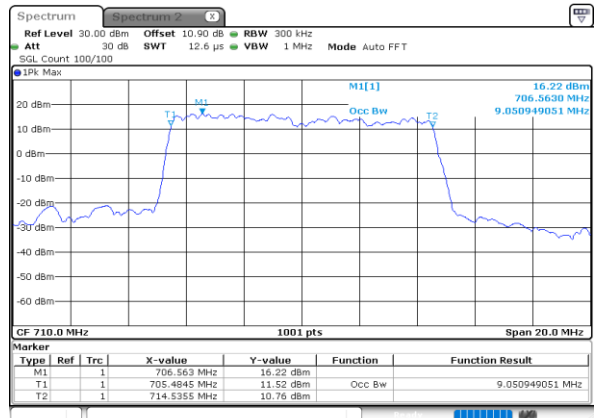
Date: 26.APR.2022 16:41:20

Middle Channel / 10MHz / QPSK



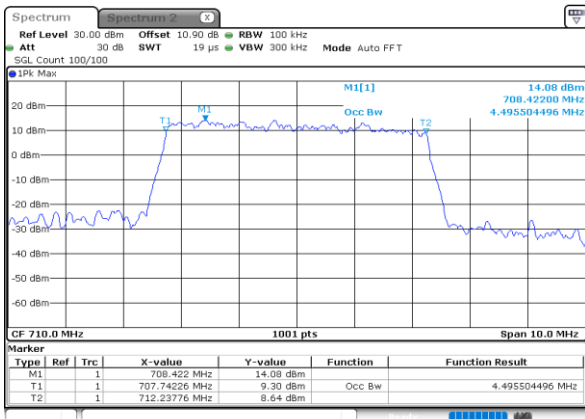
Date: 26.APR.2022 16:53:00

Middle Channel / 10MHz / 16QAM



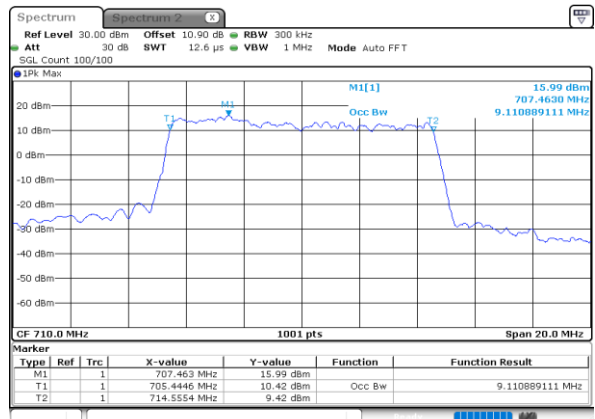
Date: 26.APR.2022 16:53:27

Middle Channel / 5MHz / 64QAM



Date: 26.APR.2022 17:02:16

Middle Channel / 10MHz / 64QAM



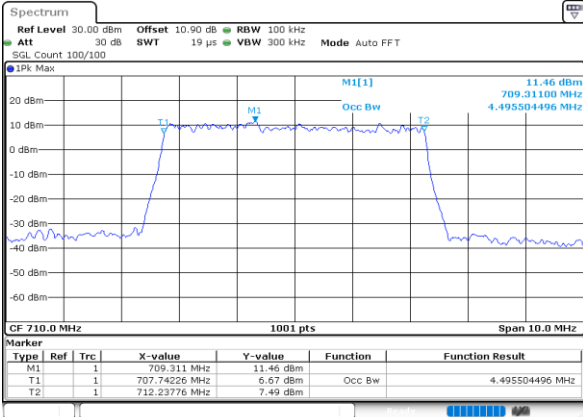
Date: 26.APR.2022 17:06:46



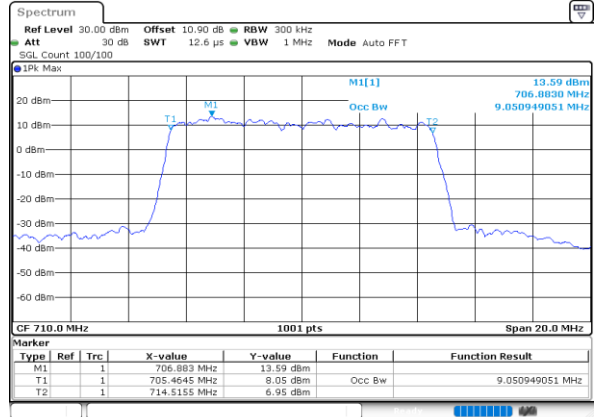
LTE Band 17

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



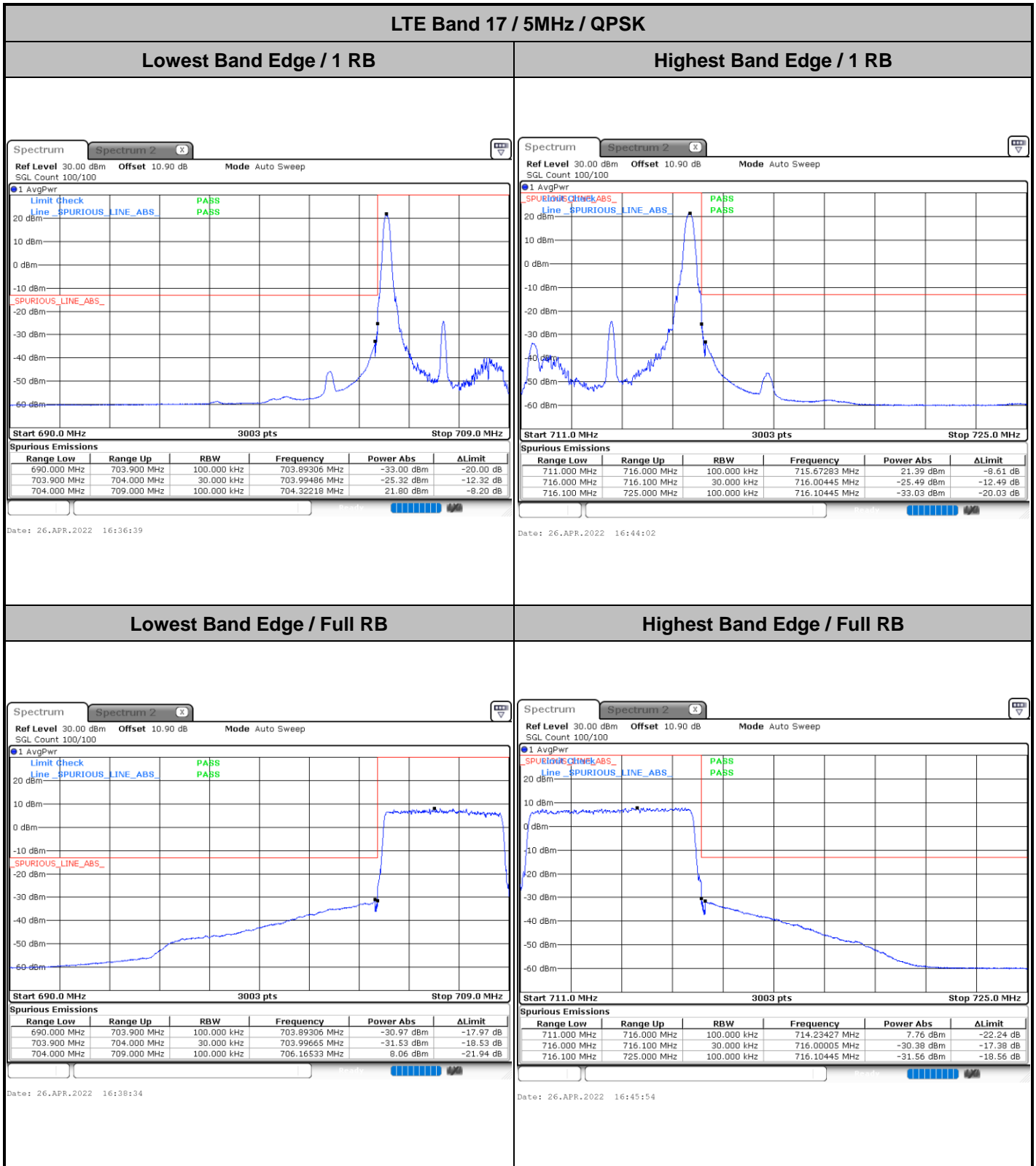
Date: 14 JUN 2022 17:16:34



Date: 14 JUN 2022 17:28:25



# Conducted Band Edge

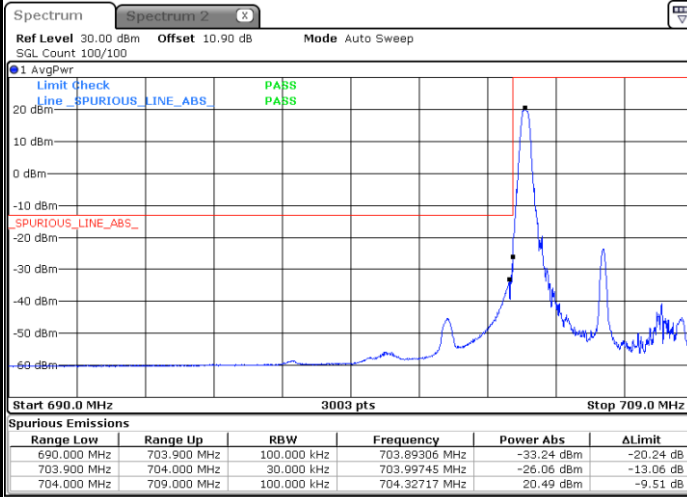






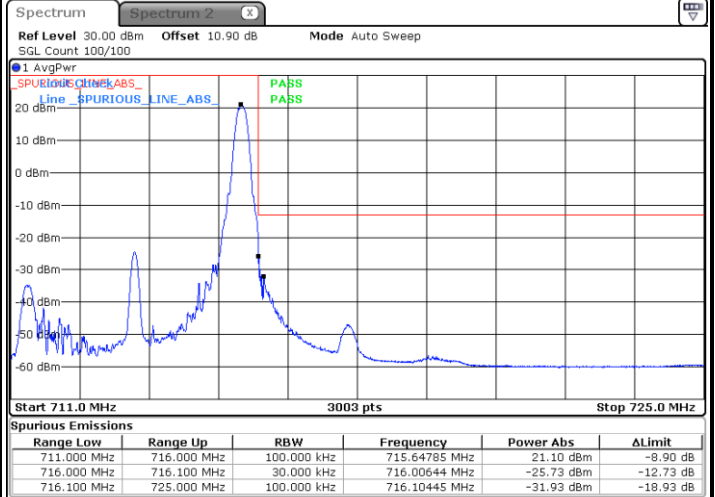
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



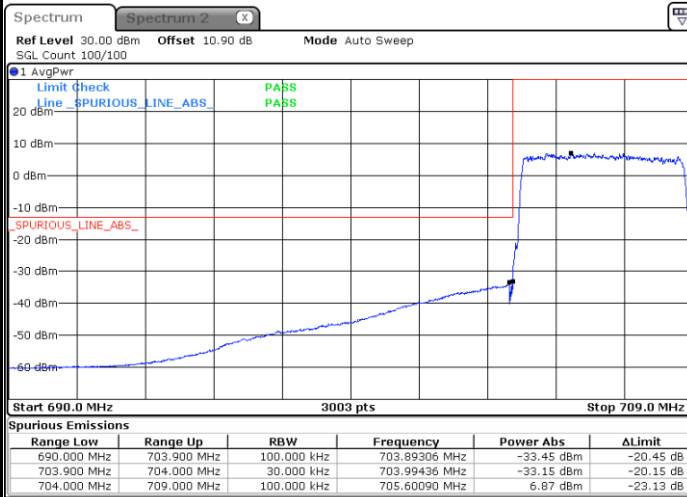
Date: 26.APR.2022 16:37:36

Highest Band Edge / 1 RB



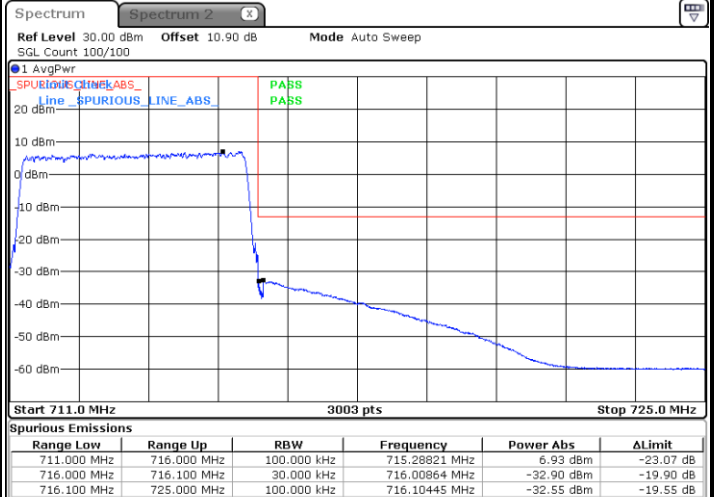
Date: 26.APR.2022 16:44:58

Lowest Band Edge / Full RB



Date: 26.APR.2022 16:39:32

Highest Band Edge / Full RB

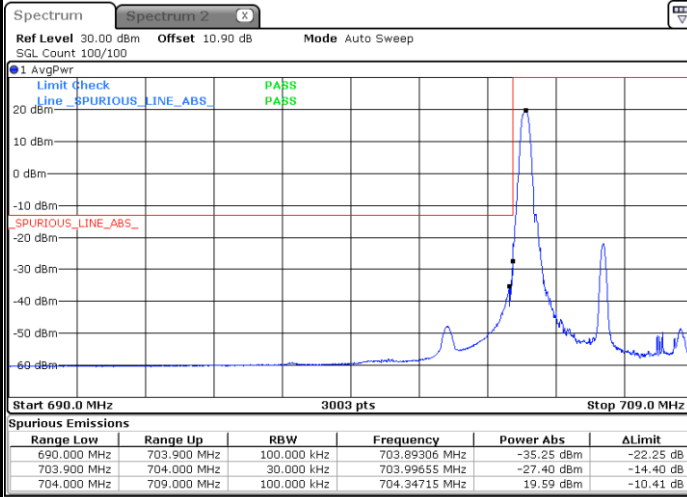


Date: 26.APR.2022 16:46:50



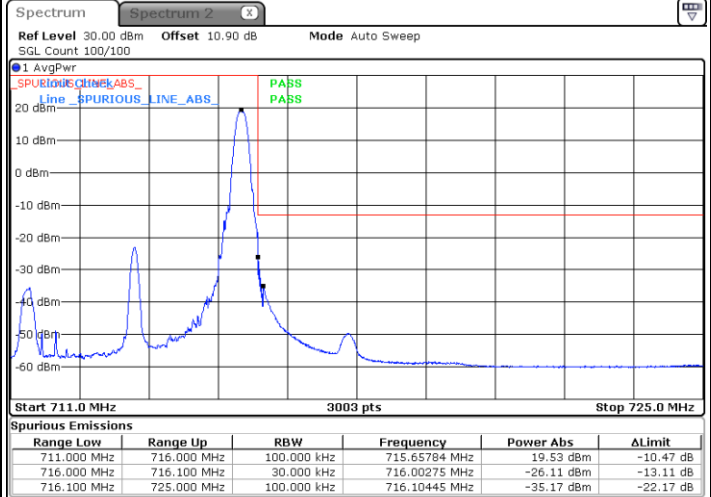
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



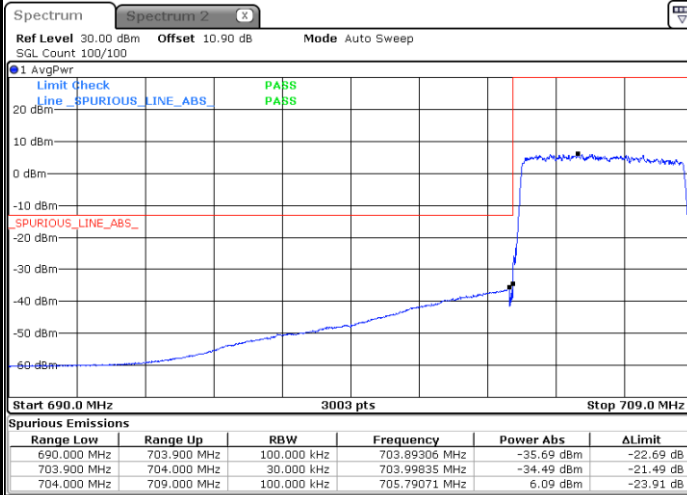
Date: 26.APR.2022 17:00:52

Highest Band Edge / 1 RB



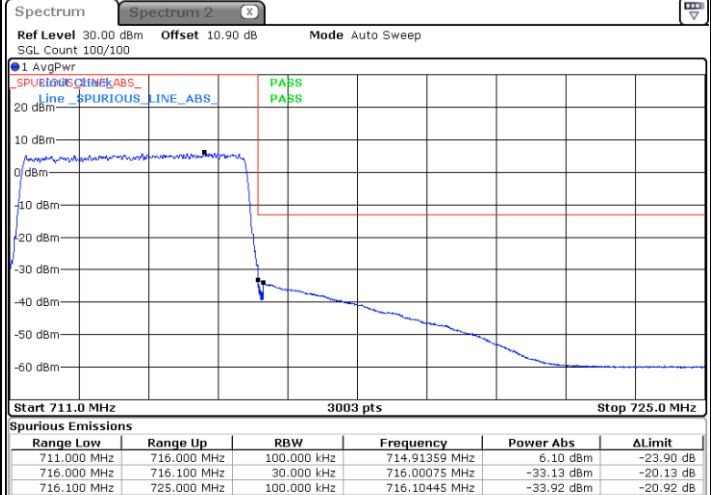
Date: 26.APR.2022 17:03:26

Lowest Band Edge / Full RB



Date: 26.APR.2022 17:01:49

Highest Band Edge / Full RB

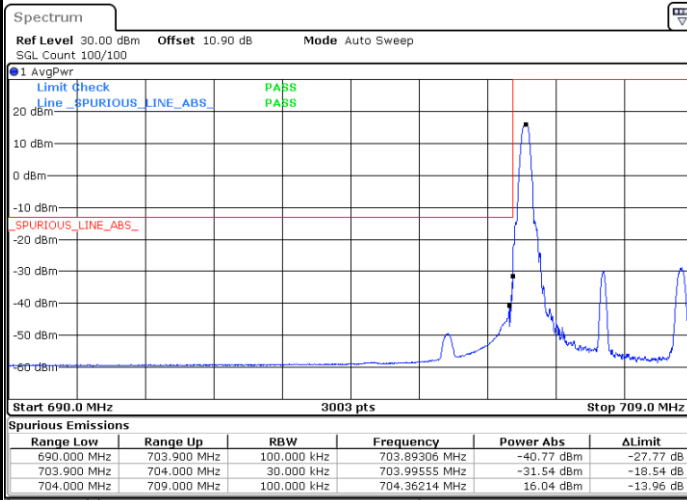


Date: 26.APR.2022 17:04:22



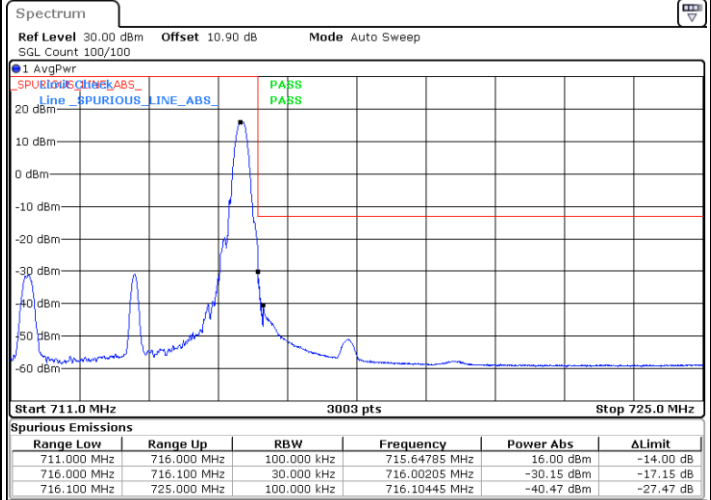
LTE Band 17 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



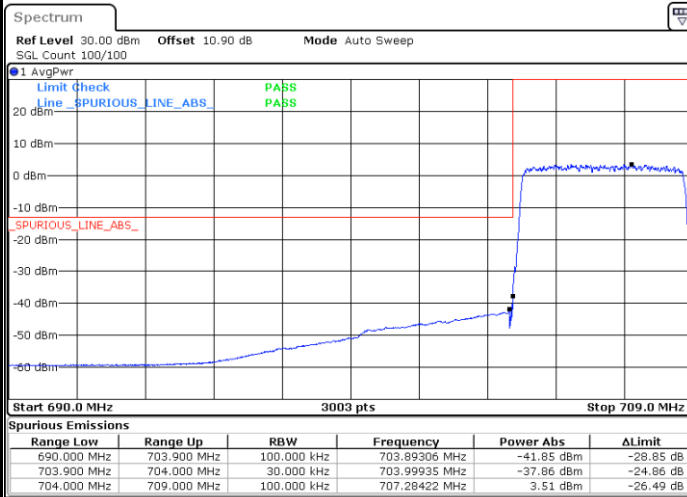
Date: 14.JUN.2022 17:15:03

Highest Band Edge / 1 RB



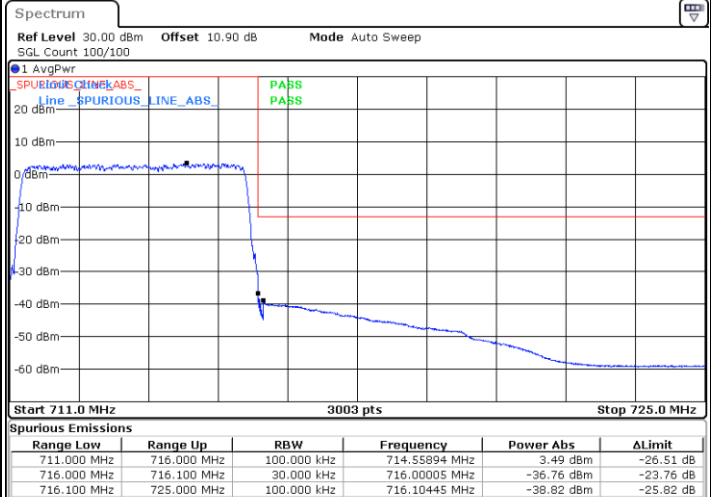
Date: 14.JUN.2022 17:17:49

Lowest Band Edge / Full RB



Date: 14.JUN.2022 17:16:08

Highest Band Edge / Full RB

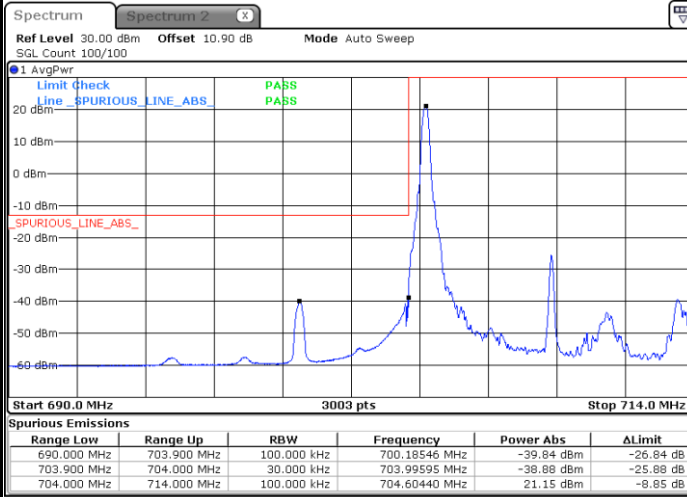


Date: 14.JUN.2022 17:18:53



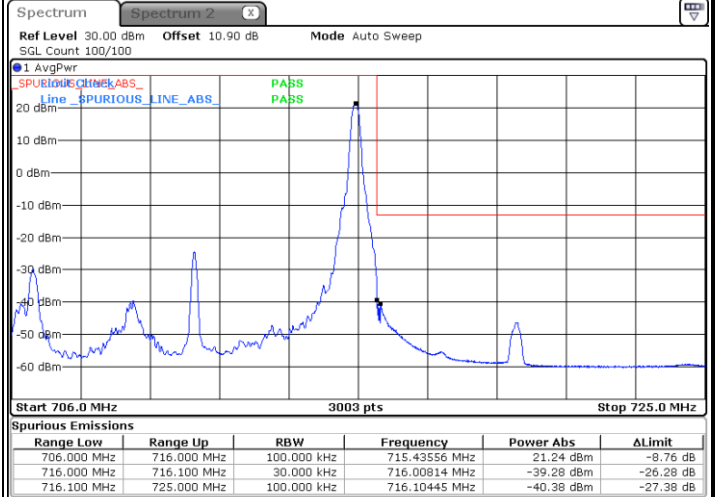
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



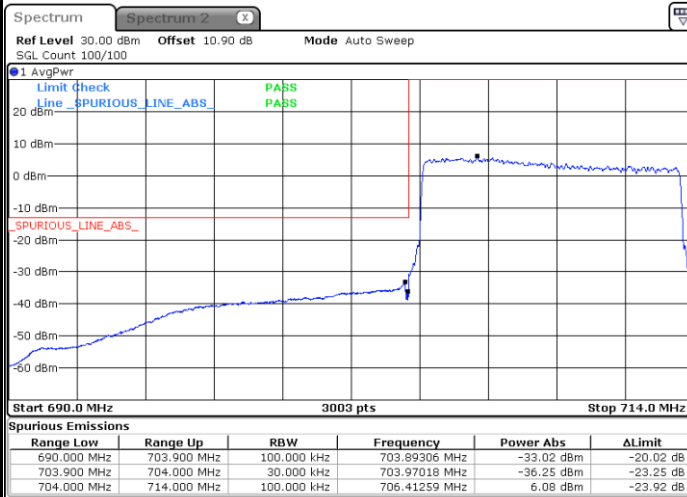
Date: 26.APR.2022 16:48:46

Highest Band Edge / 1 RB



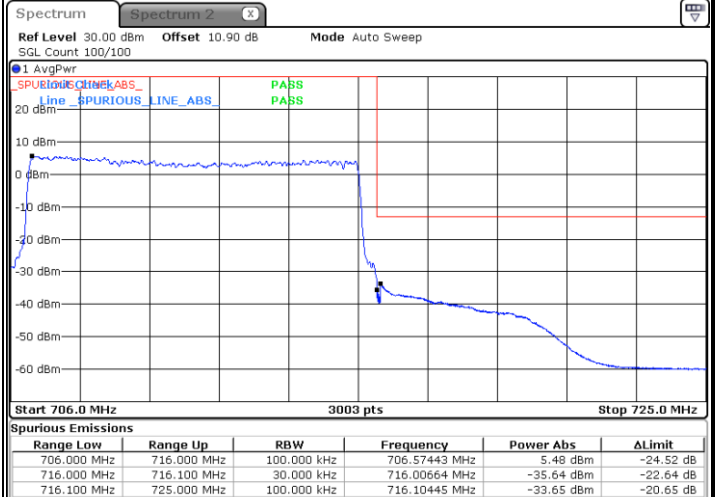
Date: 26.APR.2022 16:56:09

Lowest Band Edge / Full RB



Date: 26.APR.2022 16:50:41

Highest Band Edge / Full RB

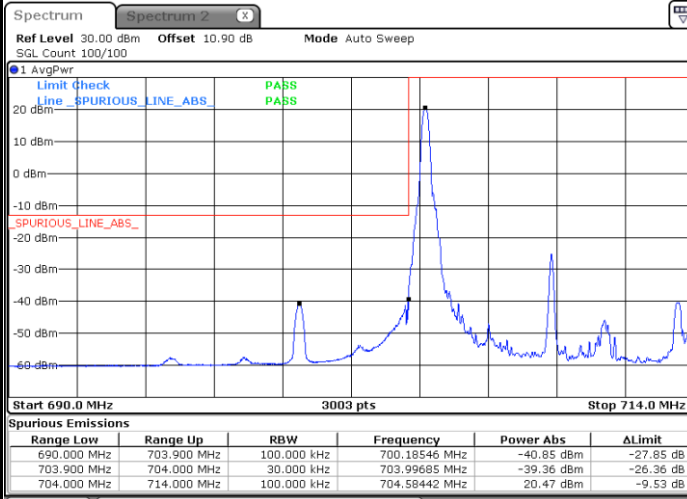


Date: 26.APR.2022 16:58:01



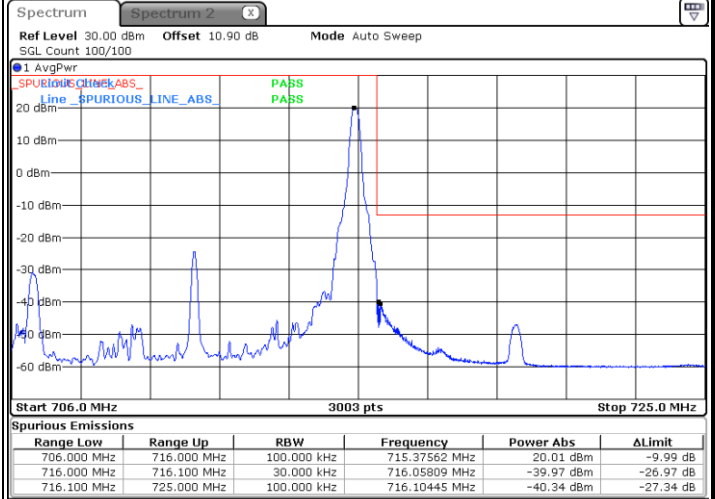
LTE Band 17 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



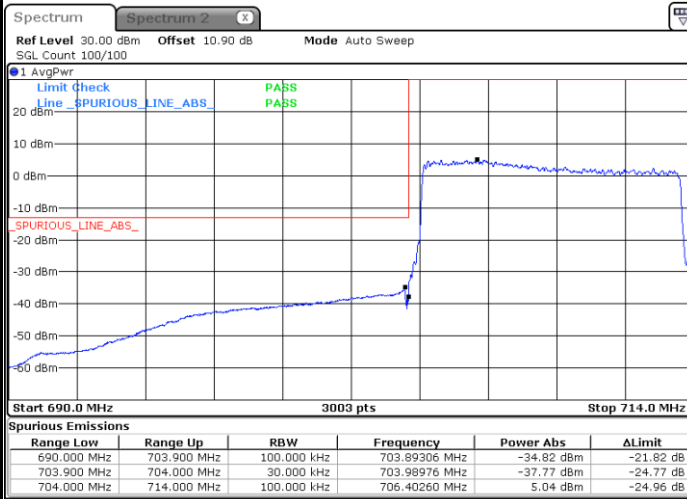
Date: 26.APR.2022 16:49:43

Highest Band Edge / 1 RB



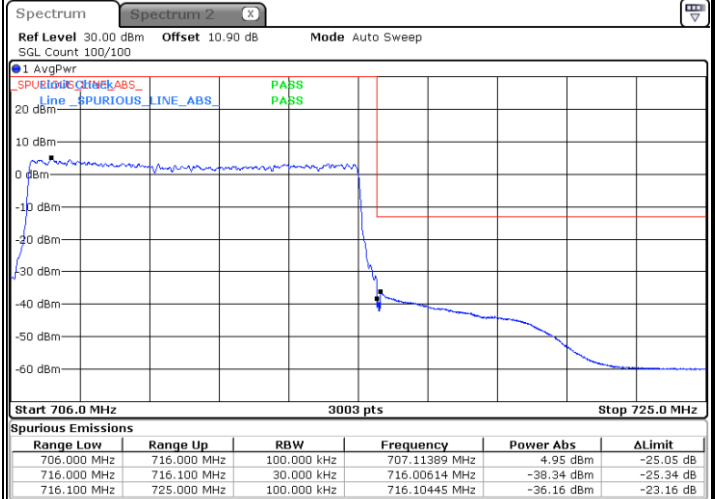
Date: 26.APR.2022 16:57:05

Lowest Band Edge / Full RB



Date: 26.APR.2022 16:51:38

Highest Band Edge / Full RB

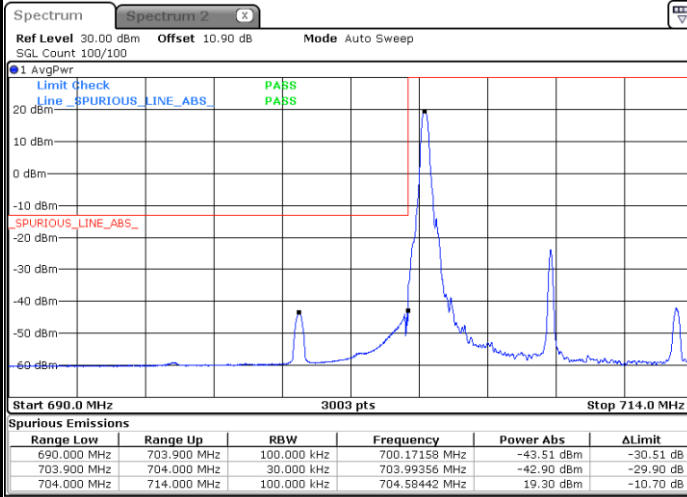


Date: 26.APR.2022 16:58:57



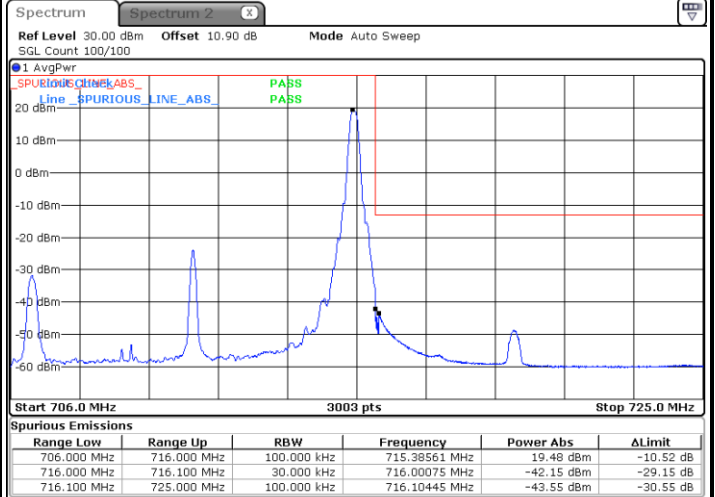
LTE Band 17 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



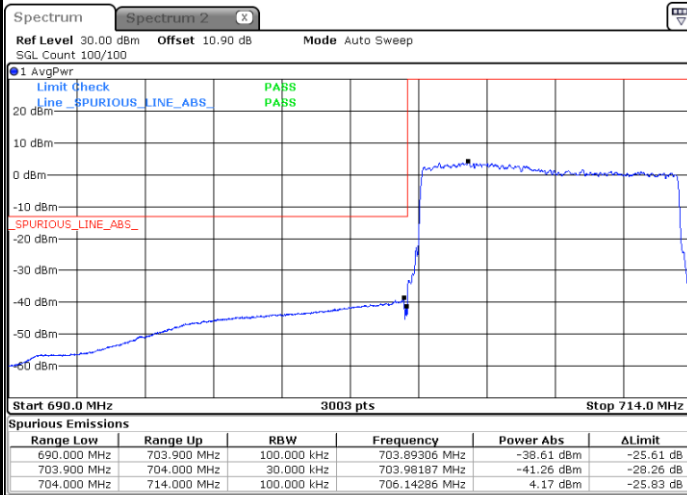
Date: 26.APR.2022 17:05:22

Highest Band Edge / 1 RB



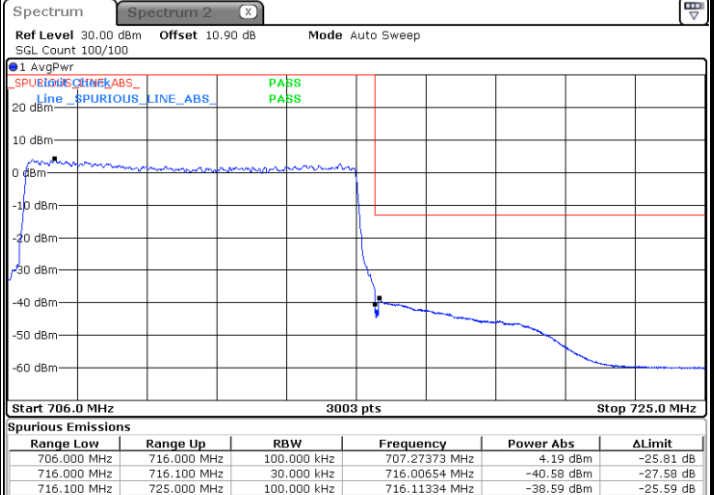
Date: 26.APR.2022 17:07:56

Lowest Band Edge / Full RB



Date: 26.APR.2022 17:06:19

Highest Band Edge / Full RB

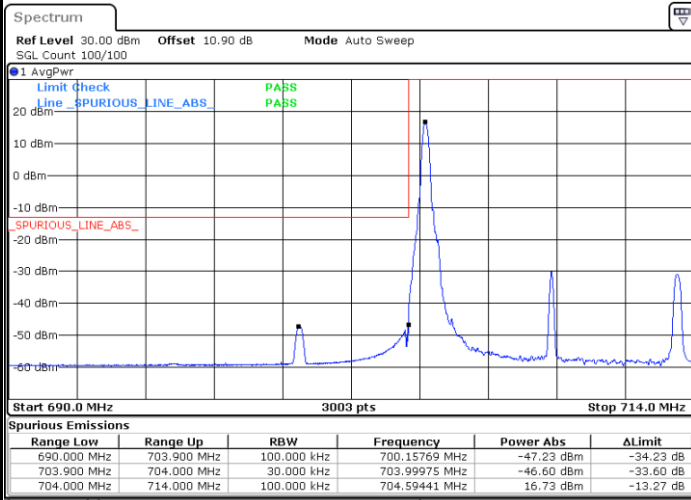


Date: 26.APR.2022 17:08:52



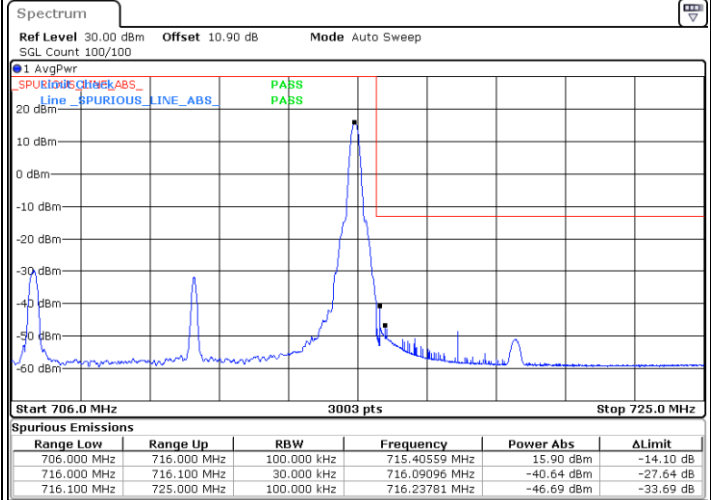
LTE Band 17 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



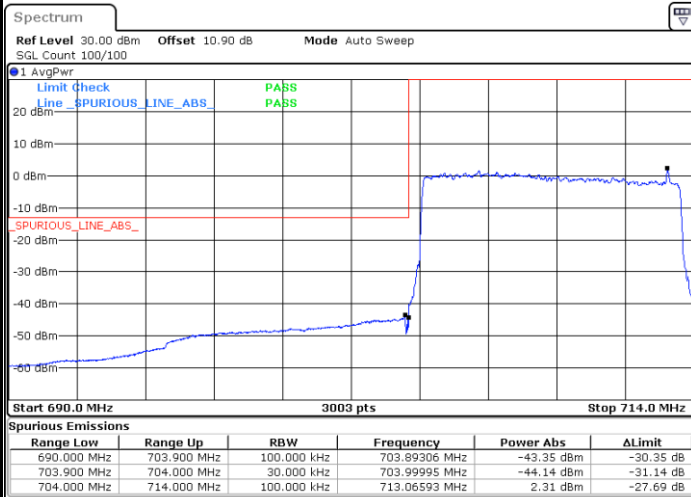
Date: 14.JUN.2022 17:26:54

Highest Band Edge / 1 RB



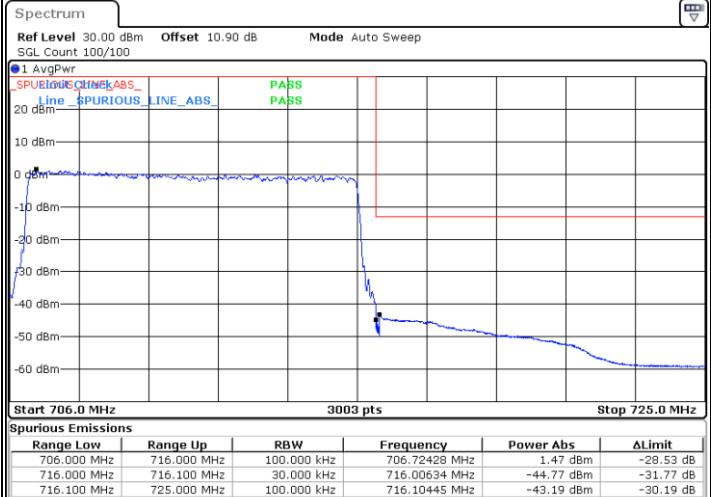
Date: 14.JUN.2022 17:29:40

Lowest Band Edge / Full RB



Date: 14.JUN.2022 17:27:58

Highest Band Edge / Full RB



Date: 14.JUN.2022 17:30:43

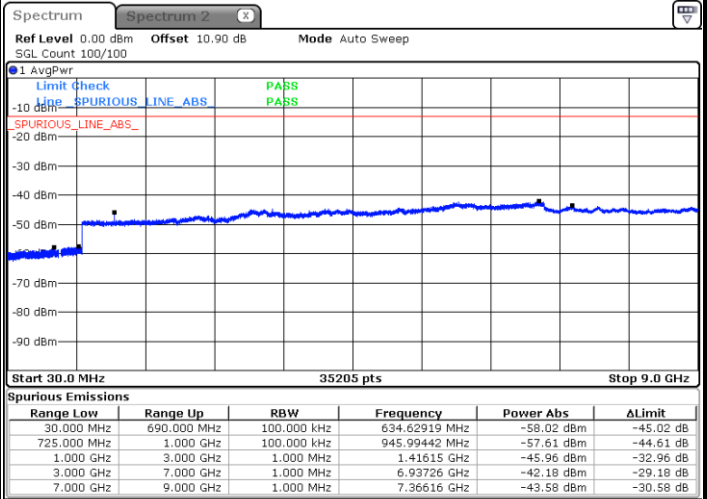
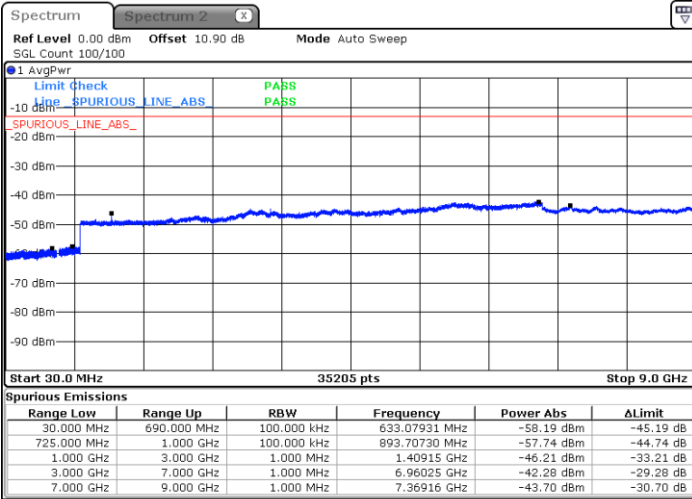


# Conducted Spurious Emission

## LTE Band 17 / 5MHz

### Lowest Channel / QPSK

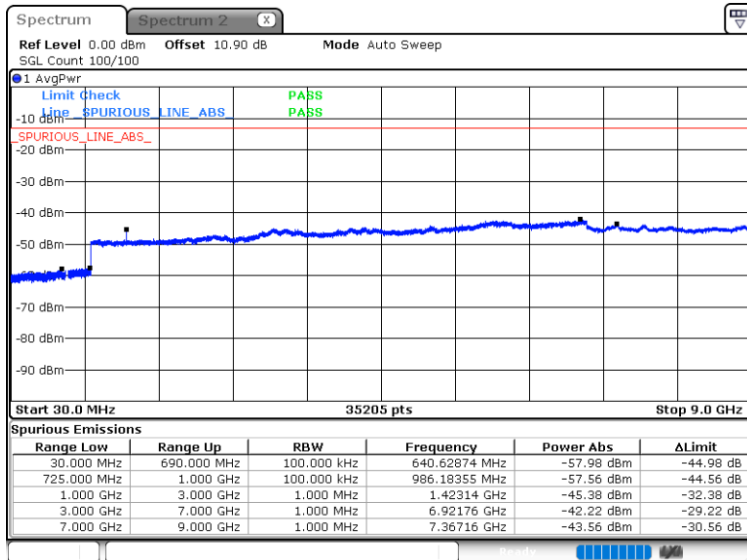
### Middle Channel / QPSK



Date: 26.APR.2022 16:40:27

Date: 26.APR.2022 16:43:07

### Highest Channel / QPSK



Date: 26.APR.2022 16:47:45

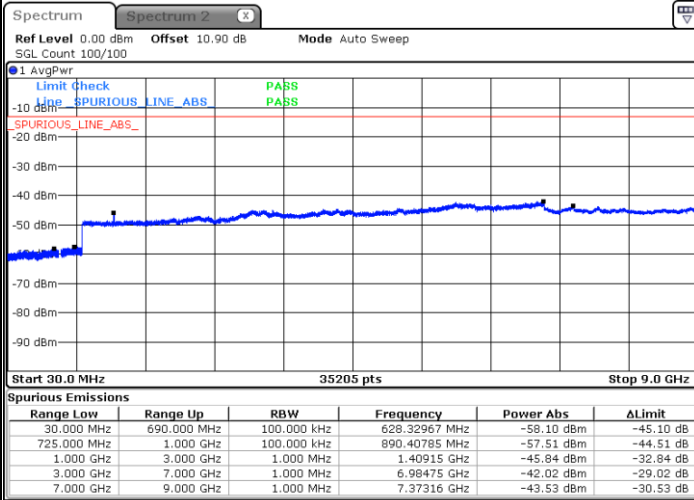




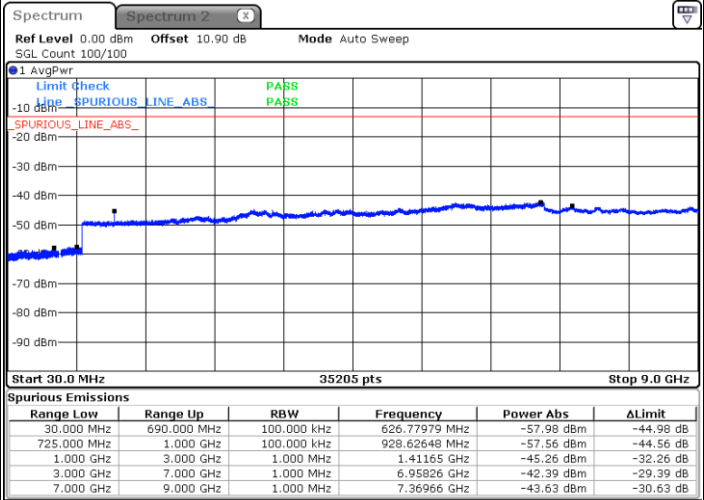
LTE Band 17 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

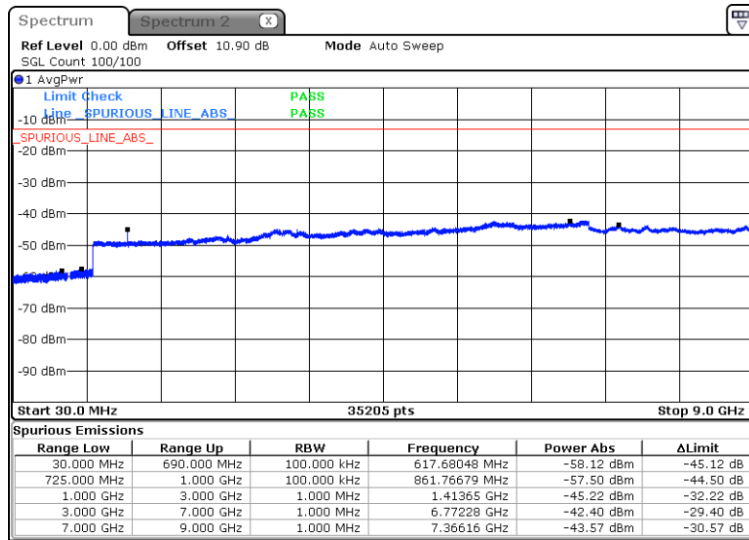


Date: 26.APR.2022 16:52:33



Date: 26.APR.2022 16:55:13

Highest Channel / QPSK



Date: 26.APR.2022 16:59:52



Frequency Stability

Test Conditions		LTE Band 17 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0107	PASS
40	Normal Voltage	0.0156	
30	Normal Voltage	0.0089	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0070	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0070	
-30	Normal Voltage	0.0173	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0076	

Note:

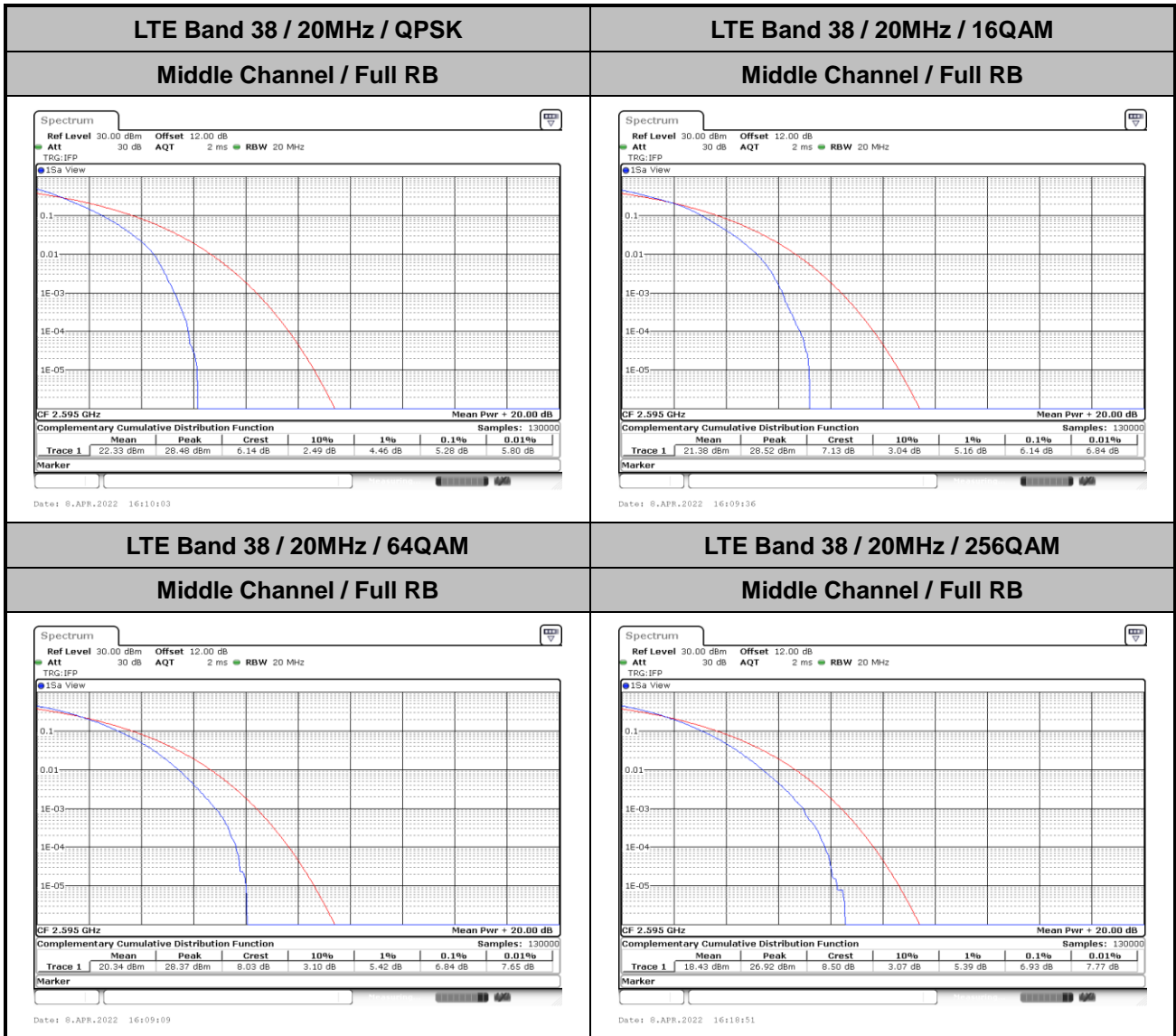
1. Normal Voltage = 4.05 V. ; Battery End Point (BEP) = 3.85 V. ; Maximum Voltage = 4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



# LTE Band 38

## Peak-to-Average Ratio

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.28	6.14	6.84	6.93	PASS





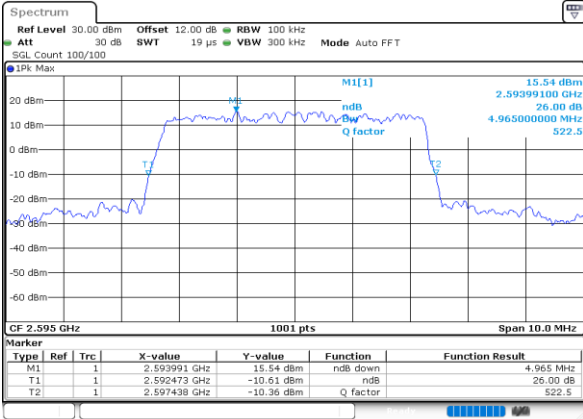
**26dB Bandwidth**

Mode	LTE Band 38 : 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	4.88	9.73	9.81	14.51	14.18	18.62	18.78
Mode	LTE Band 38 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.79	4.94	9.69	9.75	14.30	14.12	18.66	18.70



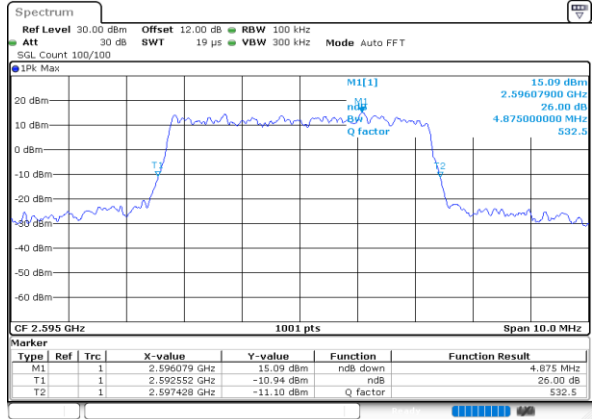
LTE Band 38

Middle Channel / 5MHz / QPSK



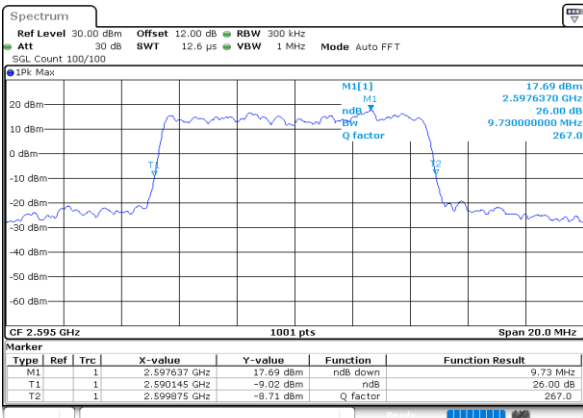
Date: 8.APR.2022 16:00:32

Middle Channel / 5MHz / 16QAM



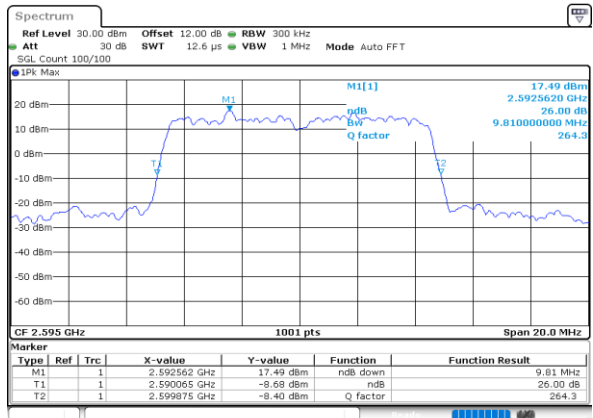
Date: 8.APR.2022 16:00:58

Middle Channel / 10MHz / QPSK



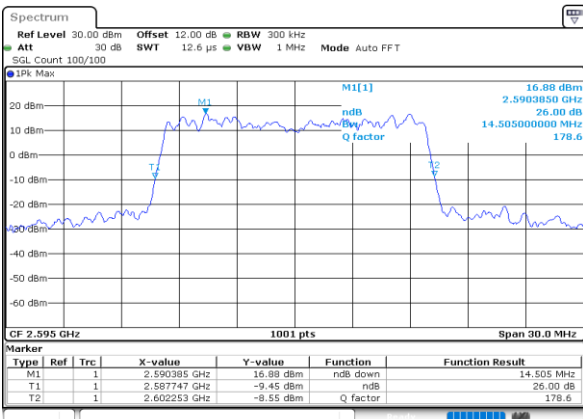
Date: 8.APR.2022 16:02:16

Middle Channel / 10MHz / 16QAM



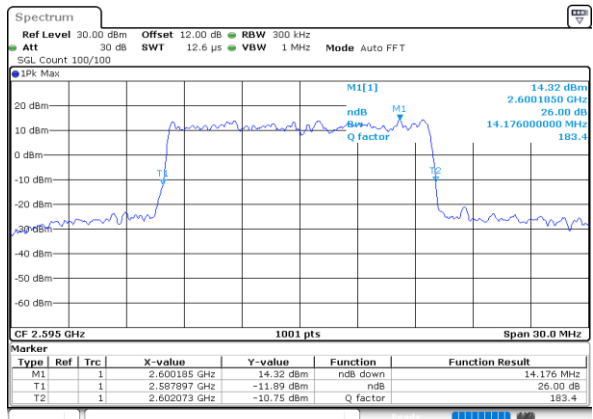
Date: 8.APR.2022 16:02:42

Middle Channel / 15MHz / QPSK



Date: 8.APR.2022 16:04:01

Middle Channel / 15MHz / 16QAM

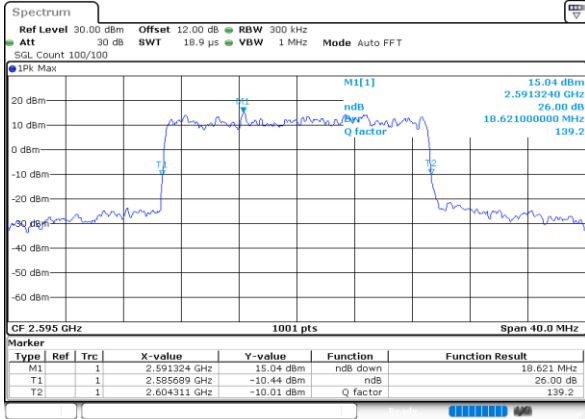


Date: 8.APR.2022 16:04:27



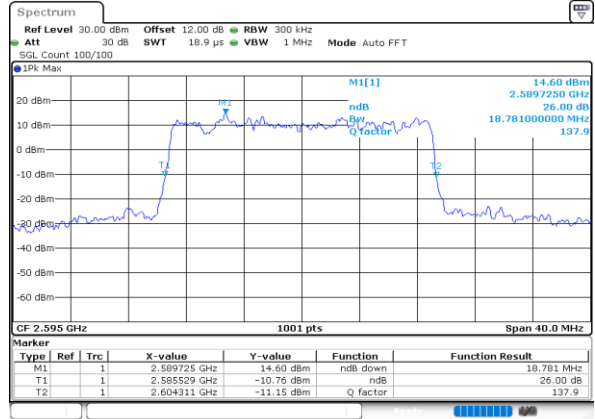
LTE Band 38

Middle Channel / 20MHz / QPSK



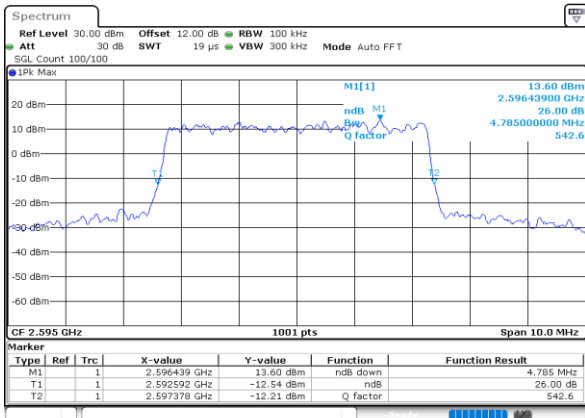
Date: 8.APR.2022 16:05:45

Middle Channel / 20MHz / 16QAM



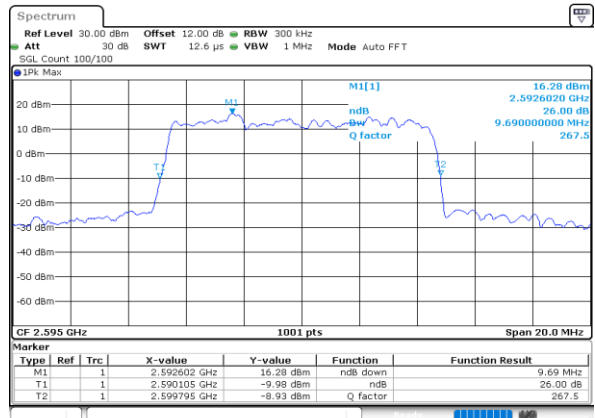
Date: 8.APR.2022 16:06:11

Middle Channel / 5MHz / 64QAM



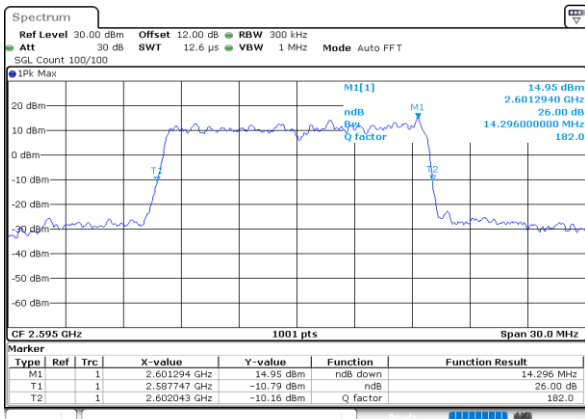
Date: 8.APR.2022 16:10:52

Middle Channel / 10MHz / 64QAM



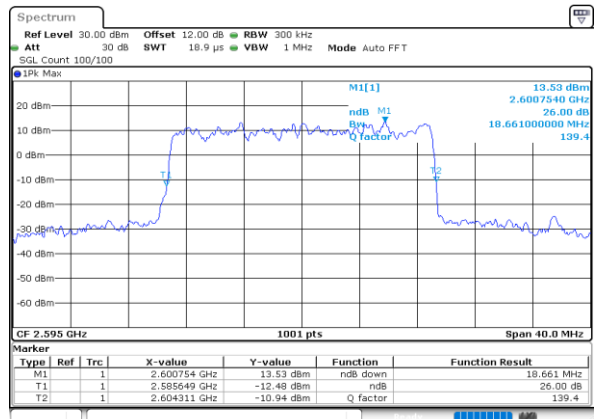
Date: 8.APR.2022 16:07:32

Middle Channel / 15MHz / 64QAM



Date: 8.APR.2022 16:08:13

Middle Channel / 20MHz / 64QAM

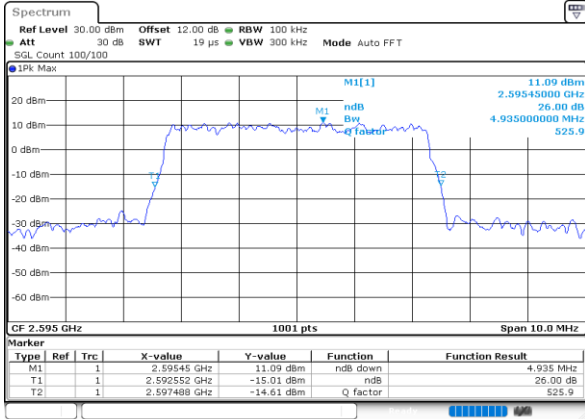


Date: 8.APR.2022 16:08:53



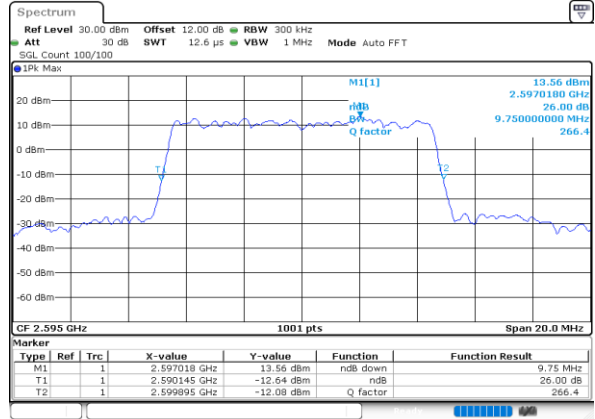
LTE Band 38

Middle Channel / 5MHz / 256QAM



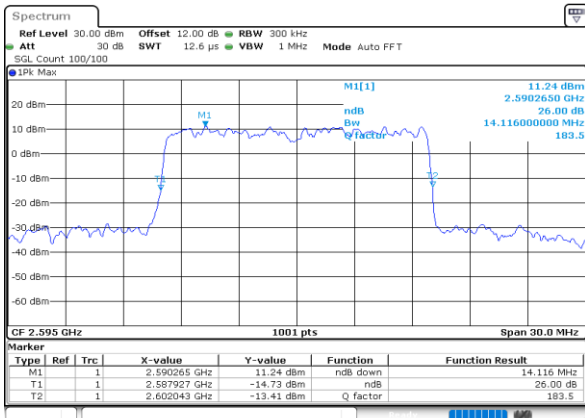
Date: 8.APR.2022 16:10:44

Middle Channel / 10MHz / 256QAM



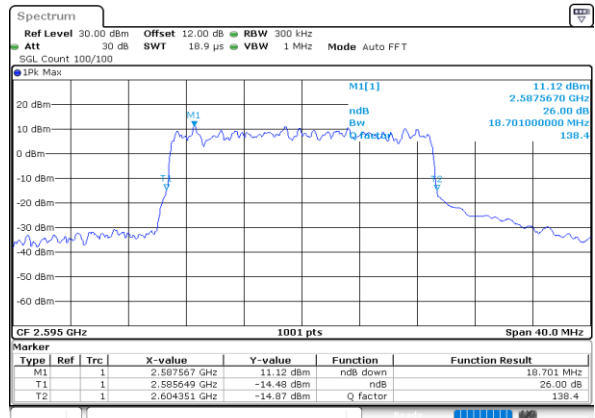
Date: 8.APR.2022 16:11:25

Middle Channel / 15MHz / 256QAM



Date: 8.APR.2022 16:12:05

Middle Channel / 20MHz / 256QAM



Date: 8.APR.2022 16:12:46



**Occupied Bandwidth**

Mode	LTE Band 38 : 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	-	-	-	-	4.51	4.50	9.07	8.97	13.43	13.58	17.82	17.94
Mode	LTE Band 38 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.51	4.47	9.07	9.03	13.46	13.49	17.82	17.90