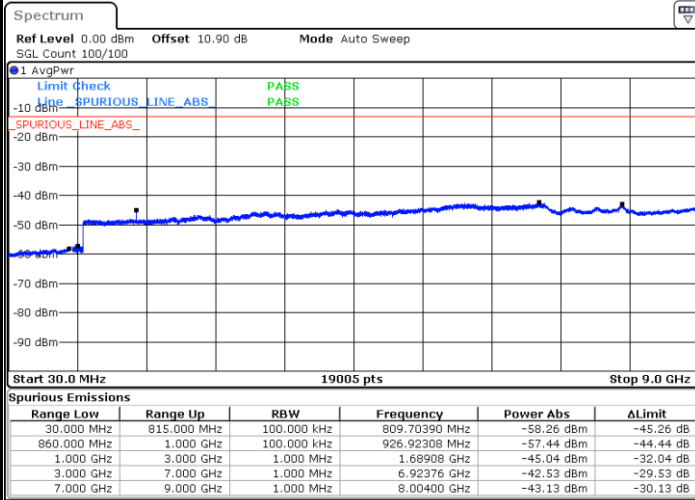




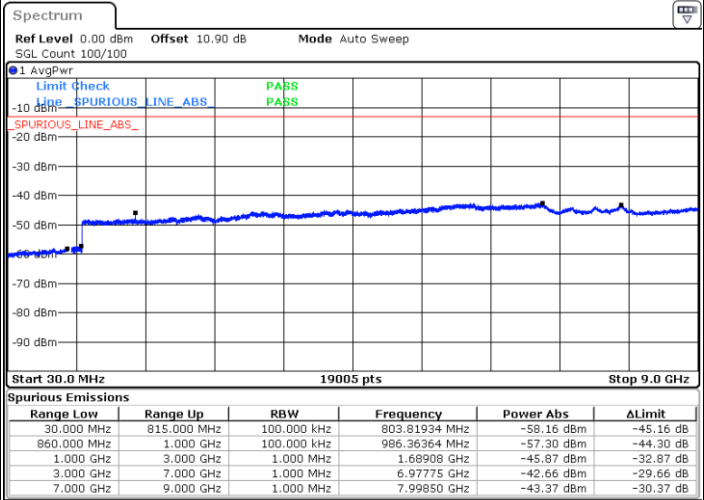
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 18.AUG.2020 05:06:47

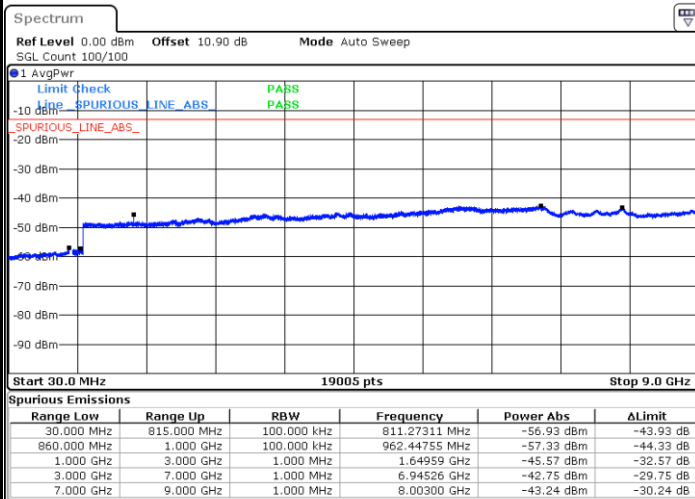
Highest Channel / 16QAM



Date: 18.AUG.2020 05:07:32

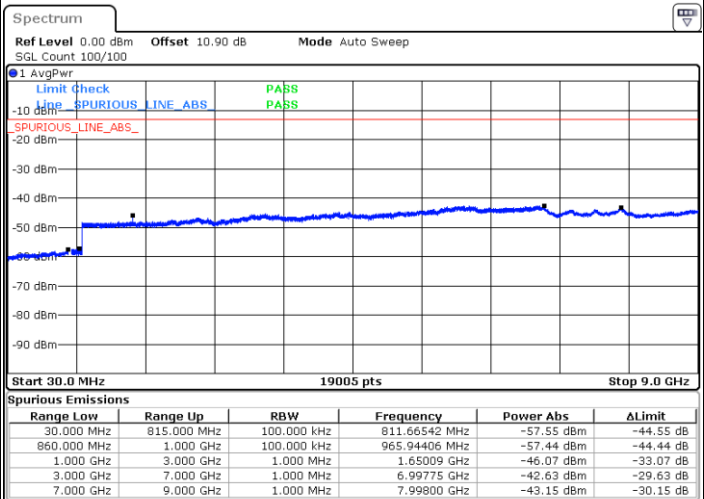
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 18.AUG.2020 05:18:46

Lowest Channel / 16QAM



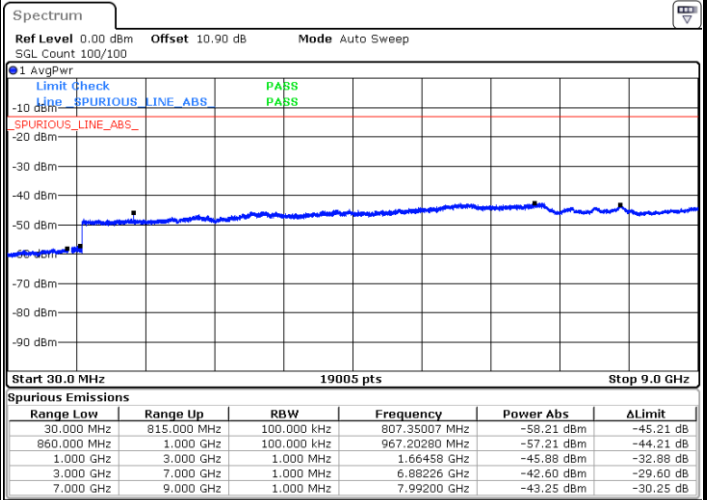
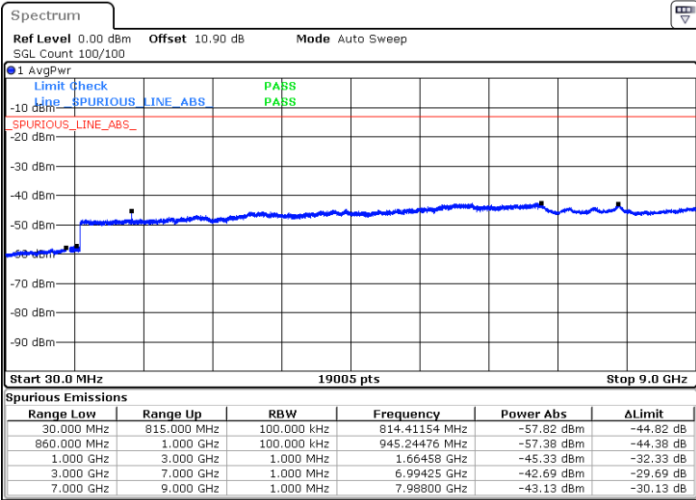
Date: 18.AUG.2020 05:19:31



LTE Band 5 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM

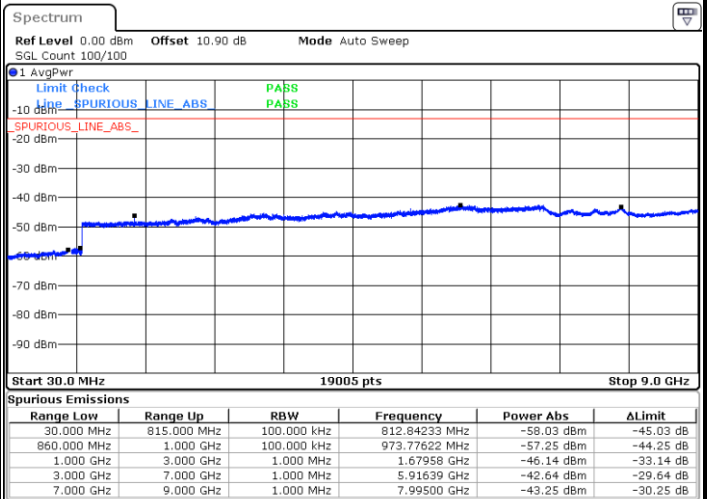
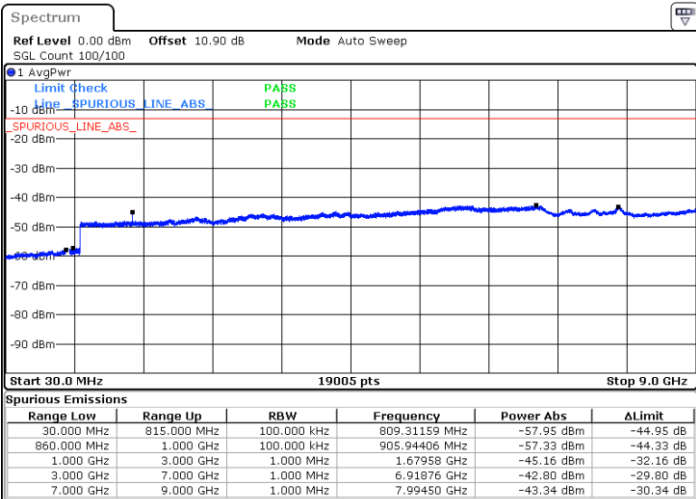


Date: 18.AUG.2020 05:21:01

Date: 18.AUG.2020 05:21:45

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 18.AUG.2020 05:29:57

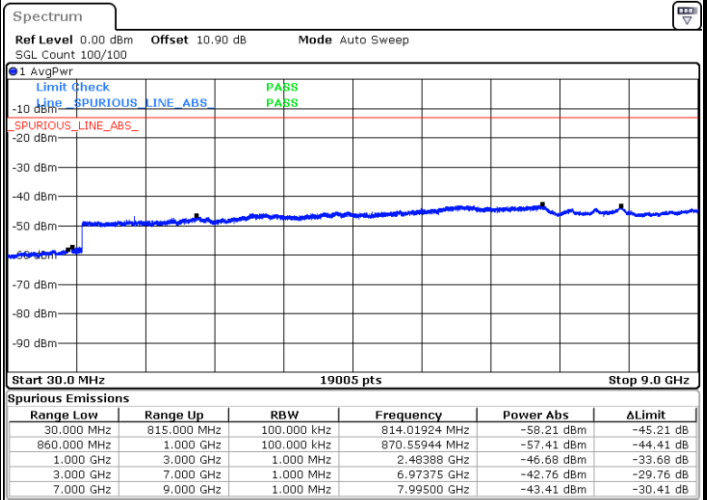
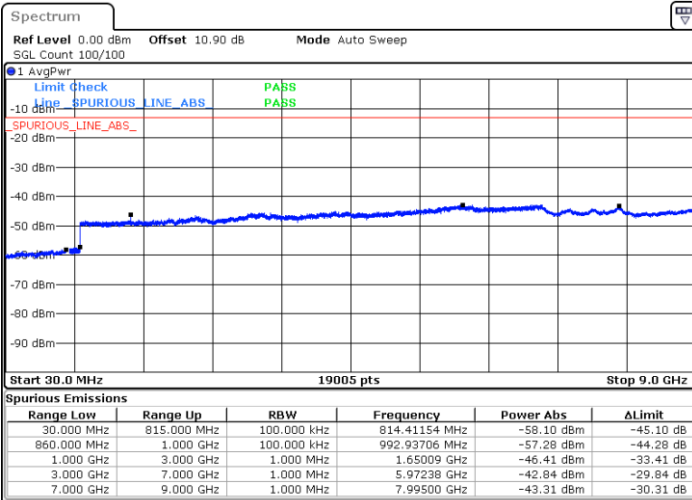
Date: 18.AUG.2020 05:30:42



LTE Band 5 / 1.4MHz

Lowest Channel / 64QAM

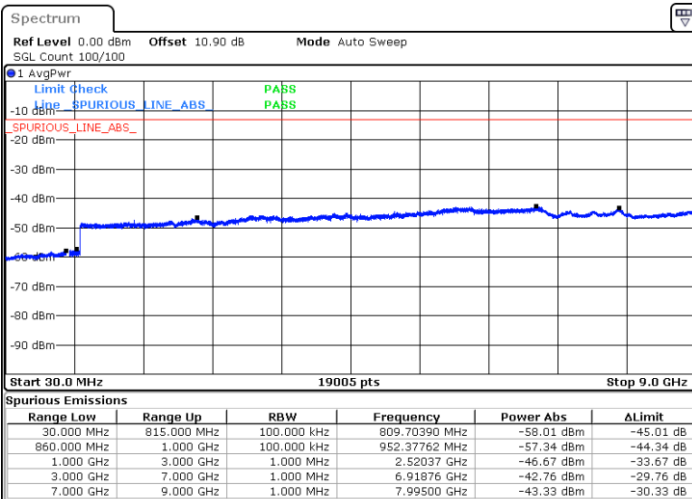
Middle Channel / 64QAM



Date: 4.SEP.2020 20:37:33

Date: 4.SEP.2020 20:38:41

Highest Channel / 64QAM

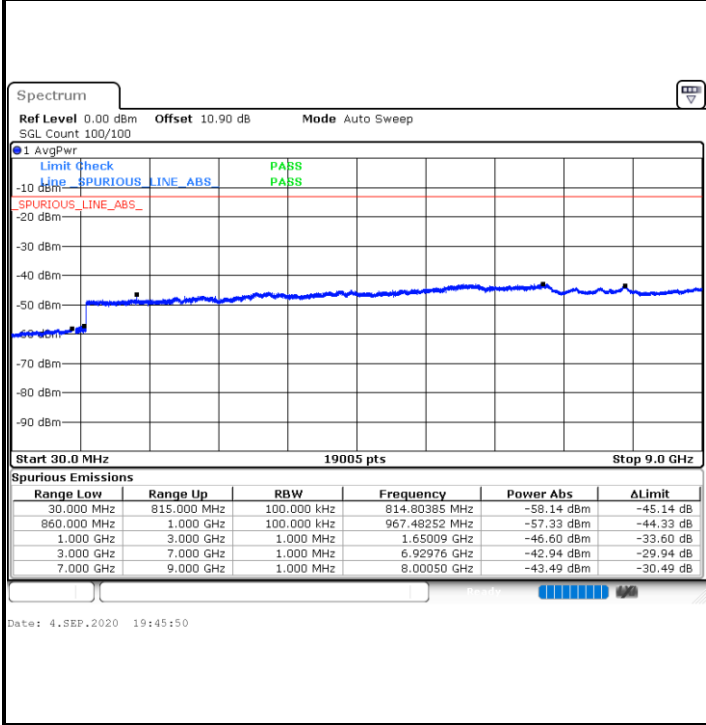


Date: 4.SEP.2020 20:43:09

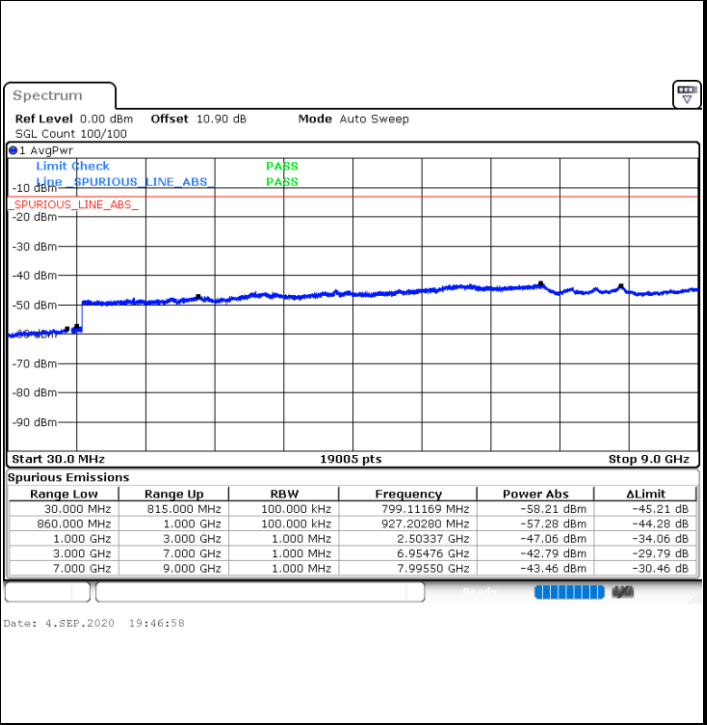


LTE Band 5 / 3MHz

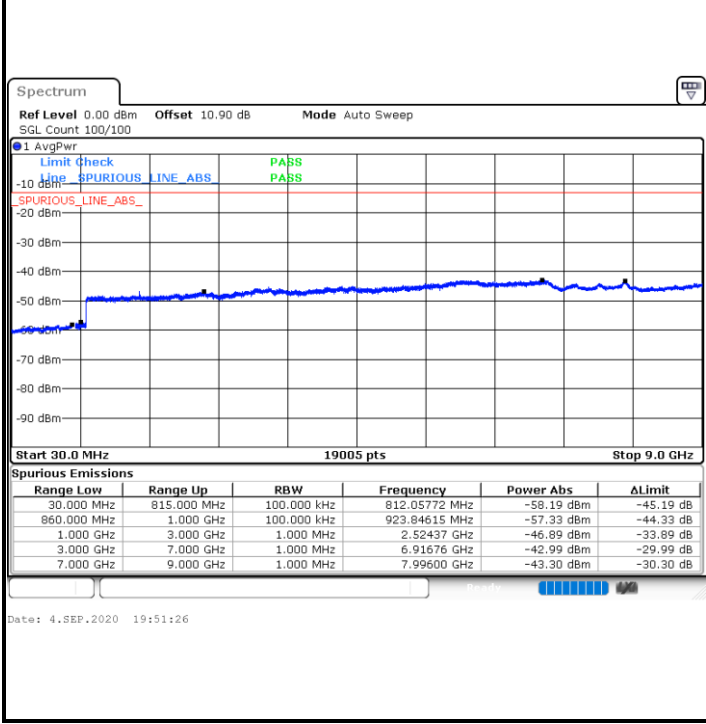
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



Highest Channel / 64QAM

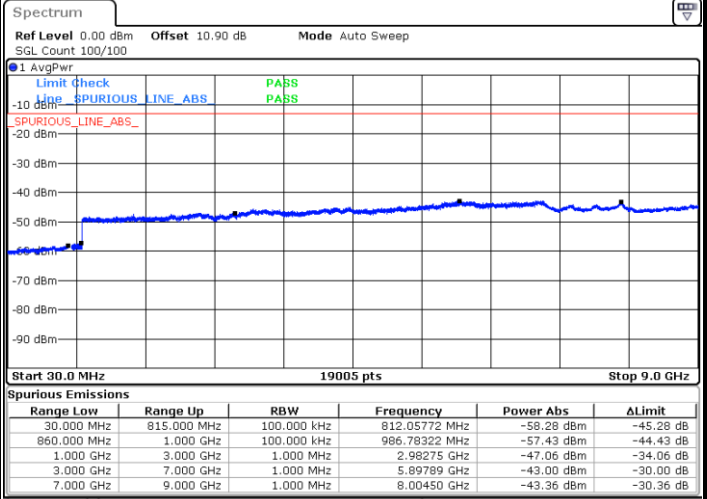
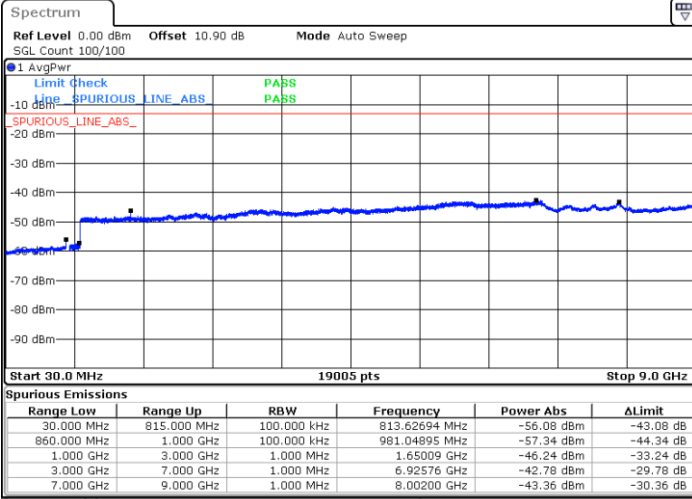




LTE Band 5 / 5MHz

Lowest Channel / 64QAM

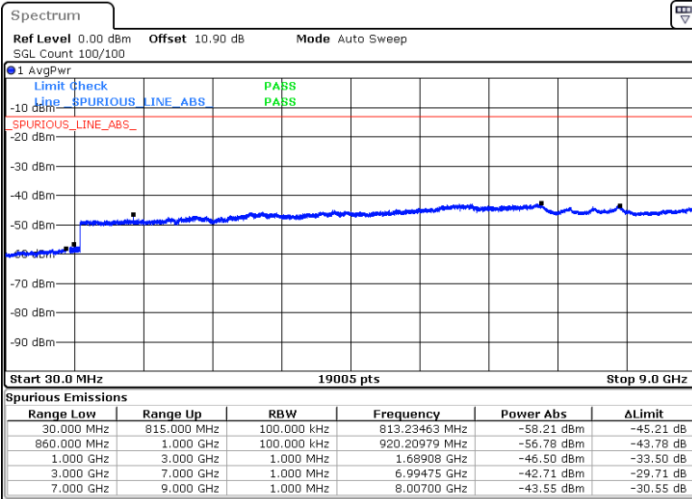
Middle Channel / 64QAM



Date: 4.SEP.2020 19:55:55

Date: 4.SEP.2020 19:57:02

Highest Channel / 64QAM



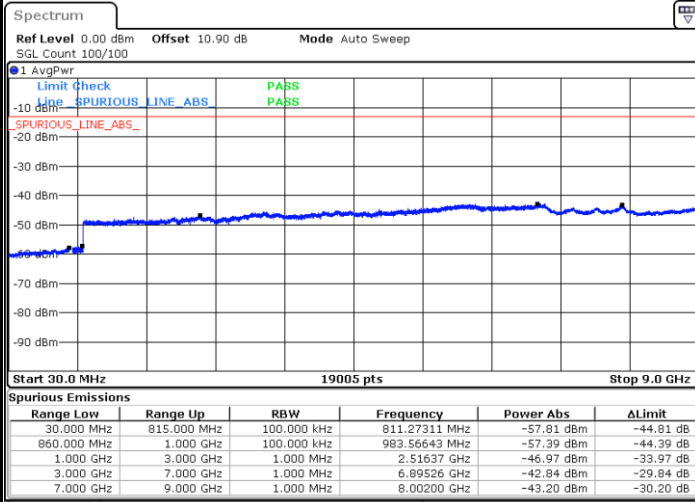
Date: 4.SEP.2020 20:01:30



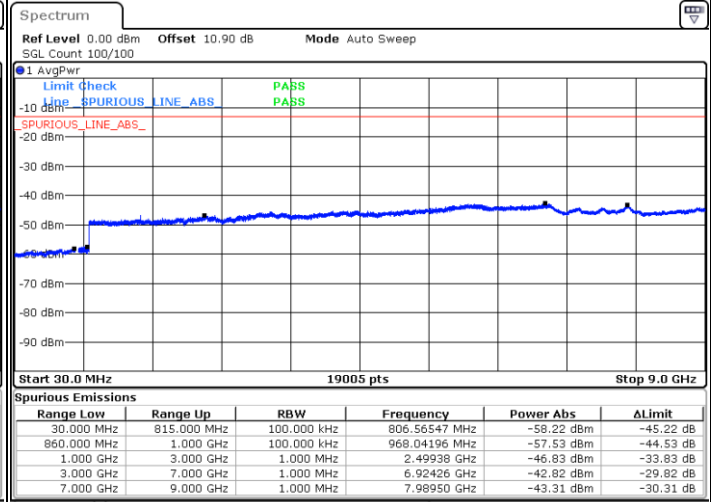
LTE Band 5 / 10MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

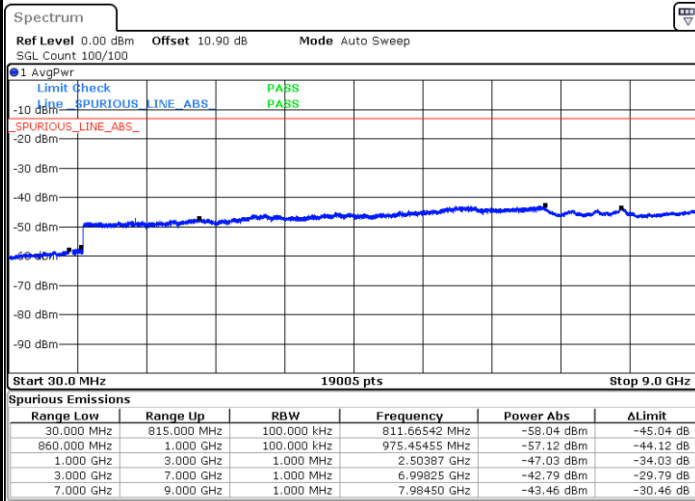


Date: 4.SEP.2020 20:05:59



Date: 4.SEP.2020 20:07:06

Highest Channel / 64QAM



Date: 4.SEP.2020 20:11:35



Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0055	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0094	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0151	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0042	
-20	Normal Voltage	0.0071	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

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



LTE Band 7

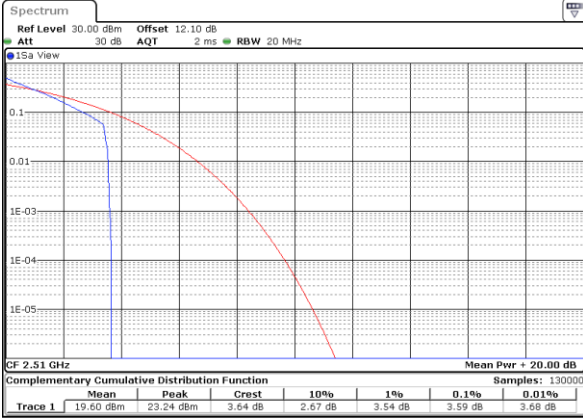
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.59	4.32	5.59	5.80	PASS
Middle CH	3.62	4.52	5.62	5.97	
Highest CH	3.42	4.70	4.93	6.06	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	7.10	6.35	-	-	PASS
Middle CH	7.16	6.61	-	-	
Highest CH	6.75	6.61	-	-	



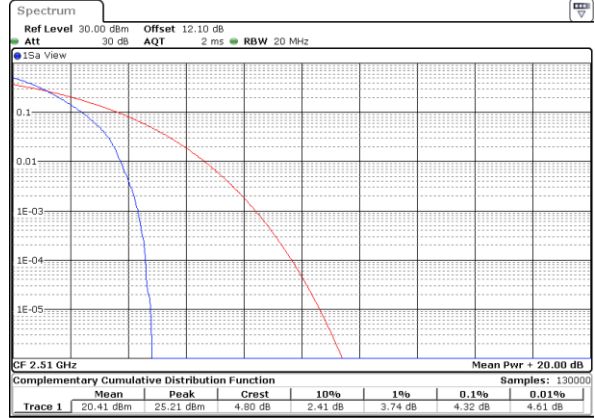
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



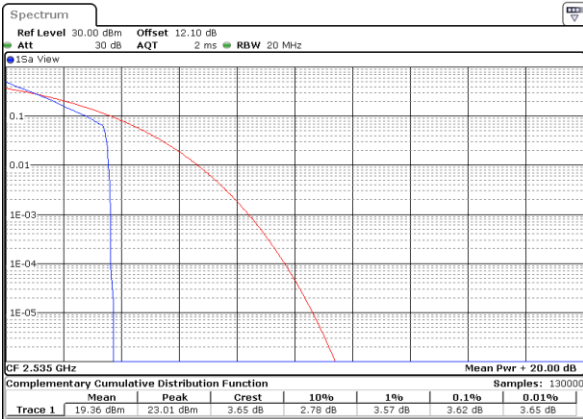
Date: 18_AUG.2020 06:46:00

Lowest Channel / Full RB



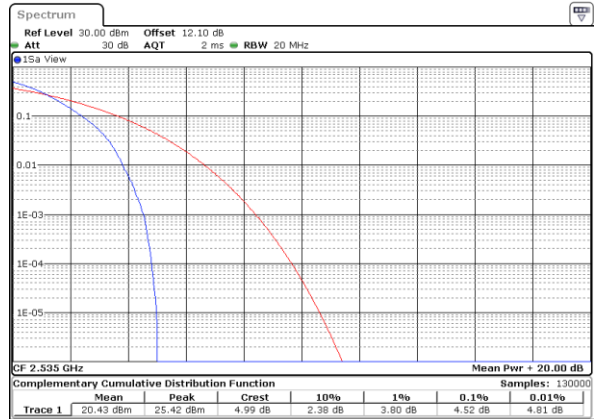
Date: 18_AUG.2020 06:46:09

Middle Channel / 1RB



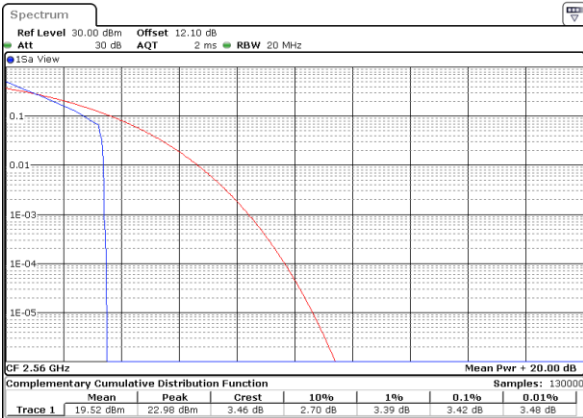
Date: 18_AUG.2020 06:46:19

Middle Channel / Full RB



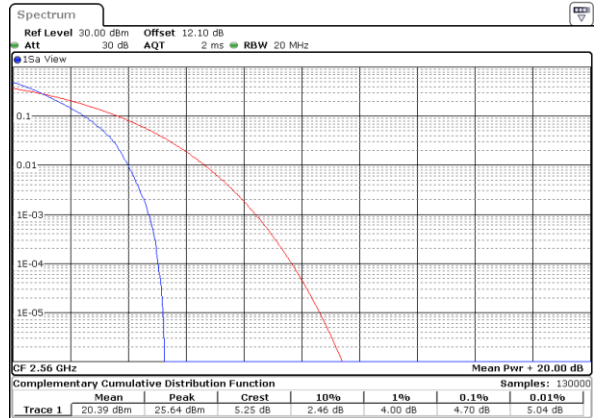
Date: 18_AUG.2020 06:46:28

Highest Channel / 1RB



Date: 18_AUG.2020 06:46:38

Highest Channel / Full RB

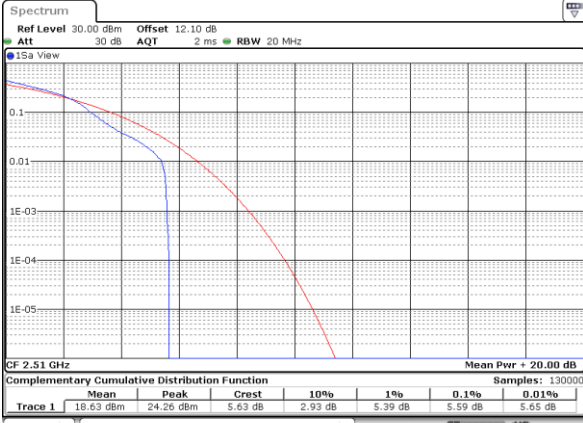


Date: 18_AUG.2020 06:46:48



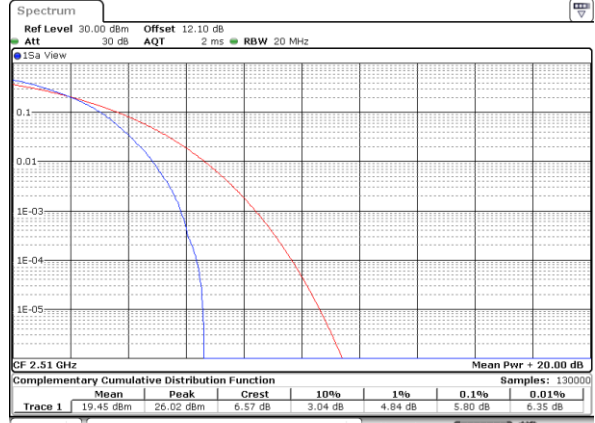
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



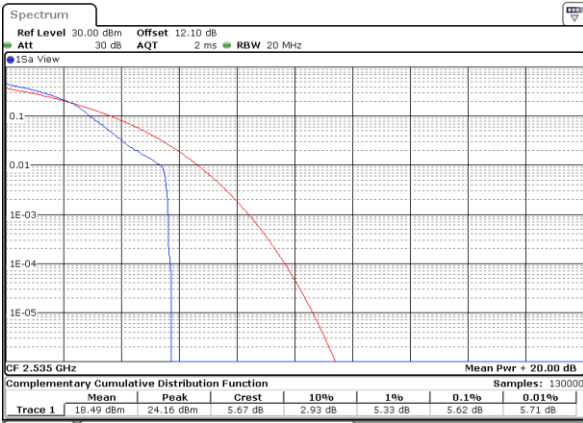
Date: 18_AUG.2020 07:38:09

Lowest Channel / Full RB



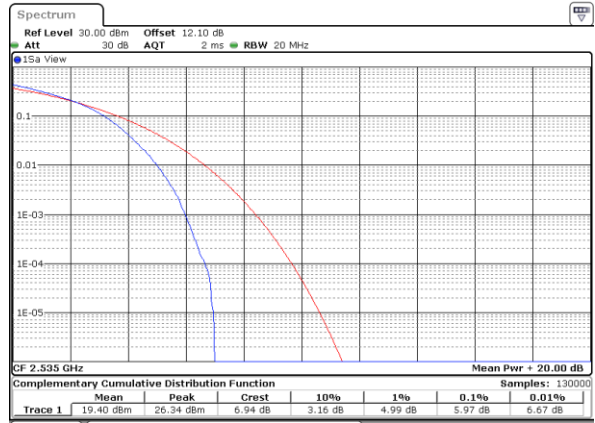
Date: 18_AUG.2020 06:45:11

Middle Channel / 1RB



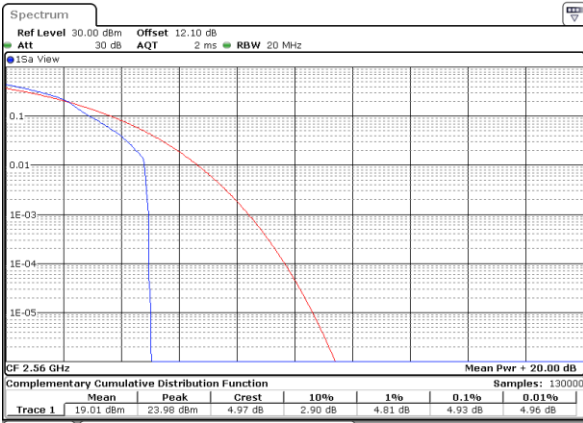
Date: 18_AUG.2020 06:45:21

Middle Channel / Full RB



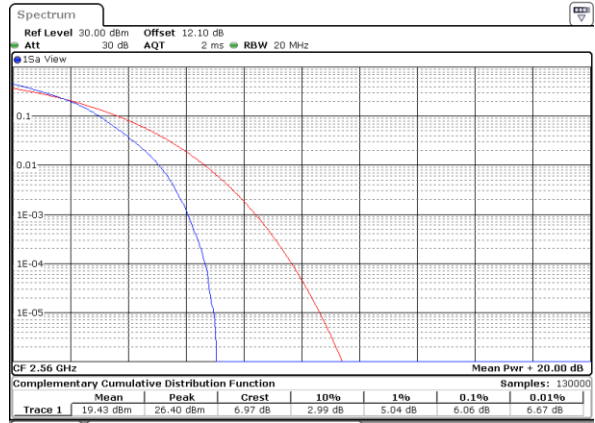
Date: 18_AUG.2020 06:45:30

Highest Channel / 1RB



Date: 18_AUG.2020 06:45:40

Highest Channel / Full RB

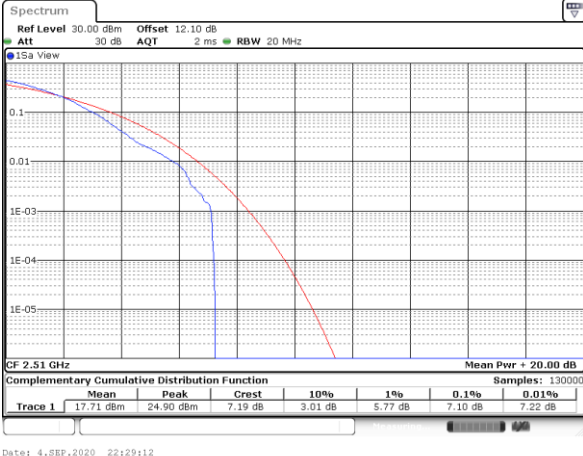


Date: 18_AUG.2020 06:45:50



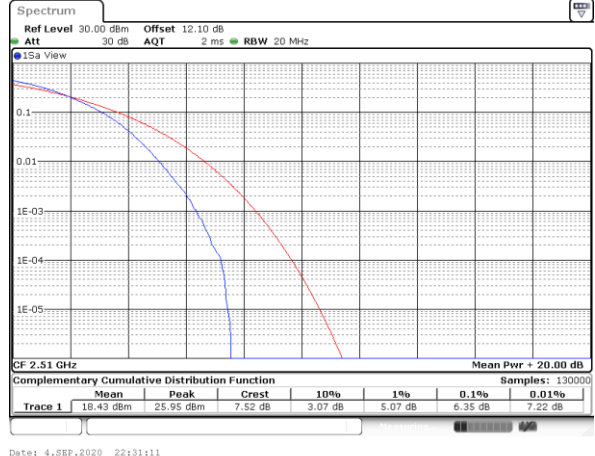
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



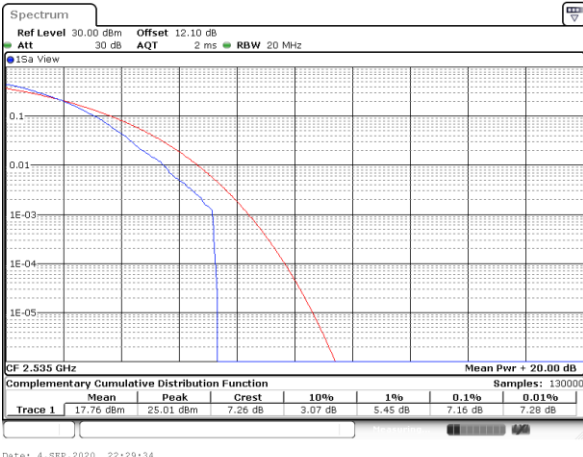
Date: 4,SEP,2020 22:29:12

Lowest Channel / Full RB



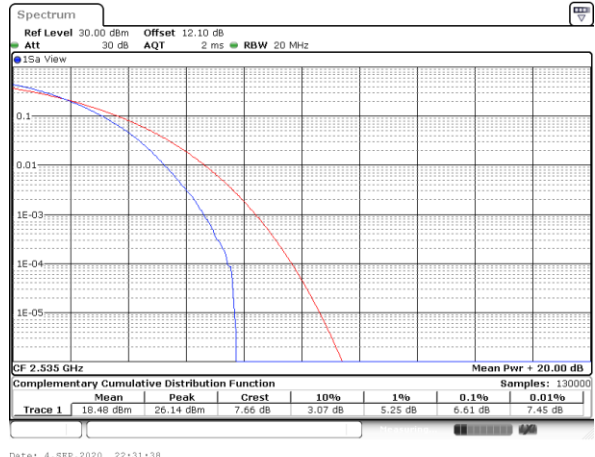
Date: 4,SEP,2020 22:31:11

Middle Channel / 1RB



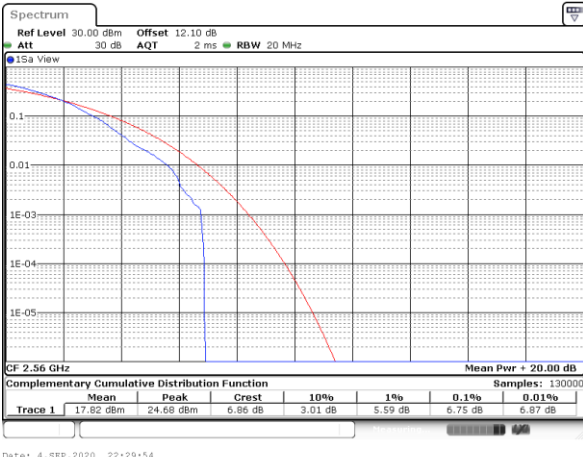
Date: 4,SEP,2020 22:29:34

Middle Channel / Full RB



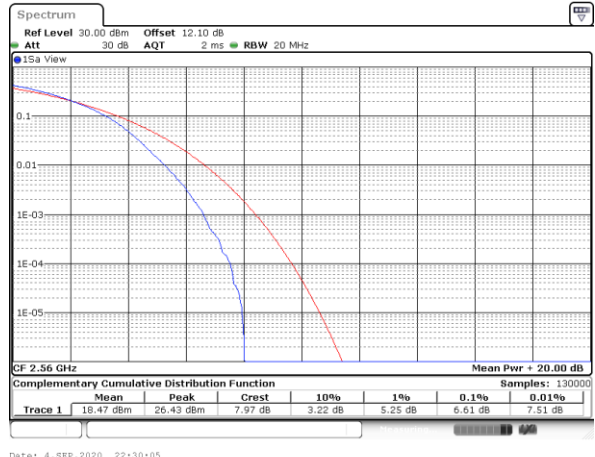
Date: 4,SEP,2020 22:31:38

Highest Channel / 1RB



Date: 4,SEP,2020 22:29:54

Highest Channel / Full RB



Date: 4,SEP,2020 22:30:05



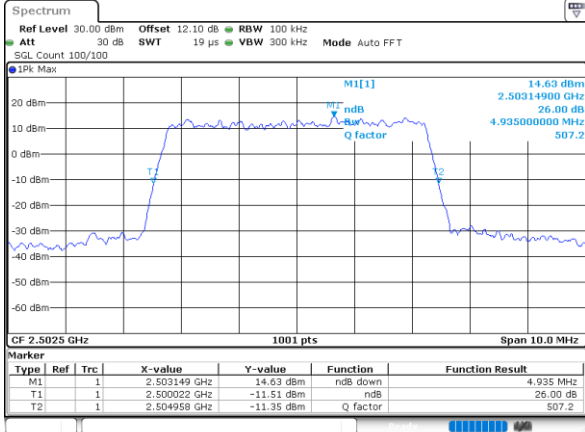
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.94	4.89	9.71	9.75	14.63	14.27	19.18	18.86
Middle CH	-	-	-	-	4.94	4.86	9.77	9.85	14.09	14.54	19.18	18.74
Highest CH	-	-	-	-	4.95	4.91	9.81	9.71	14.27	14.69	19.22	18.82
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.91	-	9.83	-	14.48	-	18.78	-
Middle CH	-	-	-	-	4.91	-	9.79	-	14.48	-	18.98	-
Highest CH	-	-	-	-	4.90	-	9.85	-	14.24	-	18.62	-



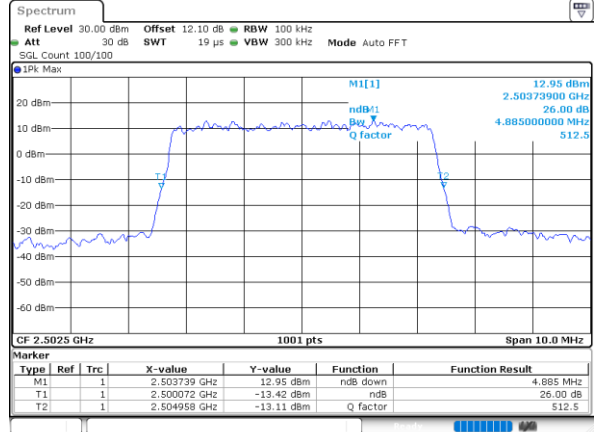
LTE Band 7

Lowest Channel / 5MHz / QPSK



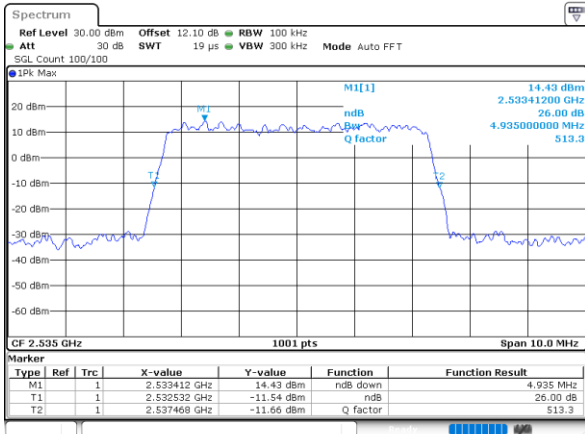
Date: 18_AUG.2020 05:54:30

Lowest Channel / 5MHz / 16QAM



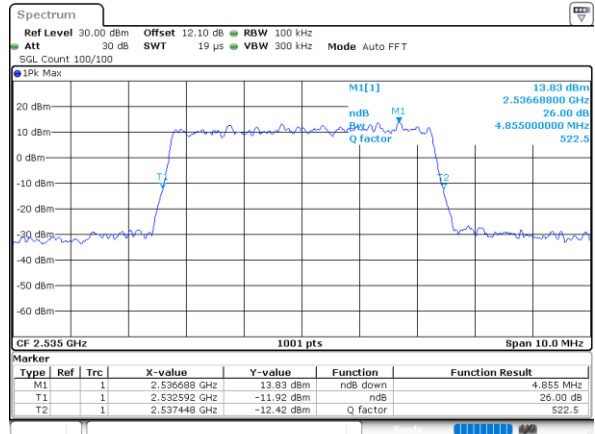
Date: 18_AUG.2020 05:54:42

Middle Channel / 5MHz / QPSK



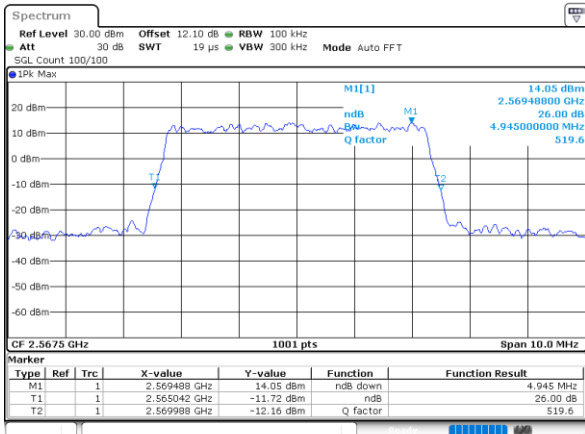
Date: 18_AUG.2020 05:59:38

Middle Channel / 5MHz / 16QAM



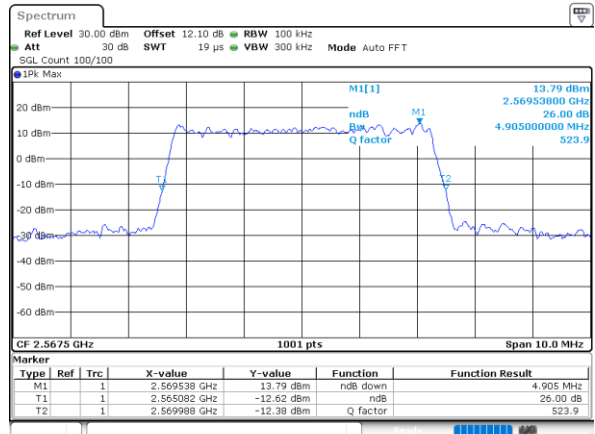
Date: 18_AUG.2020 05:59:49

Highest Channel / 5MHz / QPSK



Date: 18_AUG.2020 06:02:02

Highest Channel / 5MHz / 16QAM

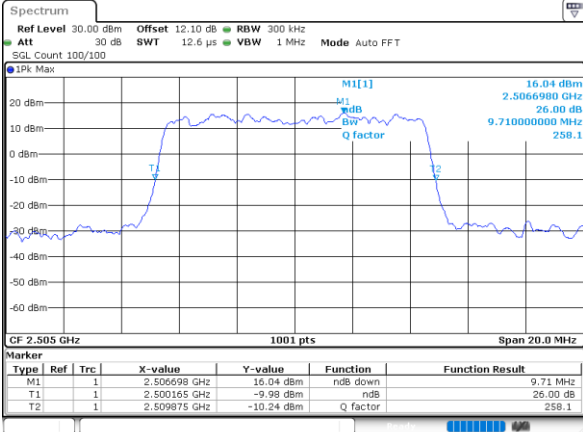


Date: 18_AUG.2020 06:02:14



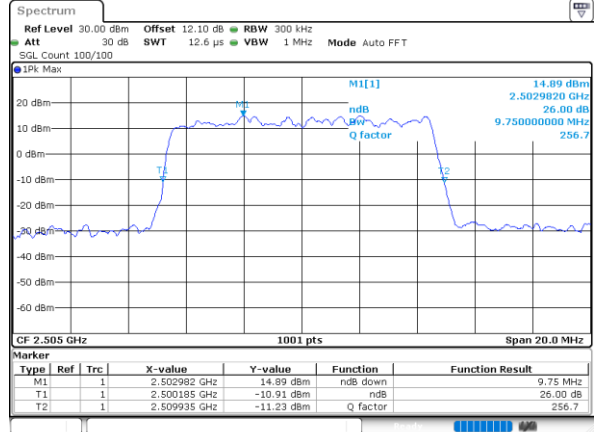
LTE Band 7

Lowest Channel / 10MHz / QPSK



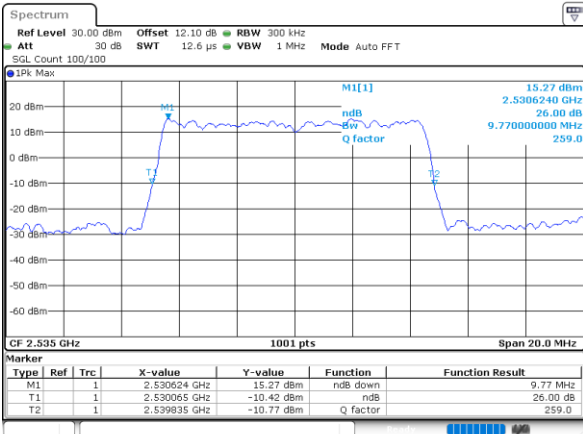
Date: 18_AUG.2020 06:07:10

Lowest Channel / 10MHz / 16QAM



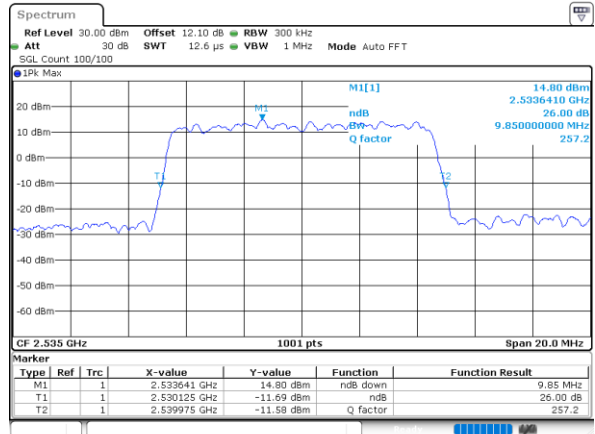
Date: 18_AUG.2020 06:07:12

Middle Channel / 10MHz / QPSK



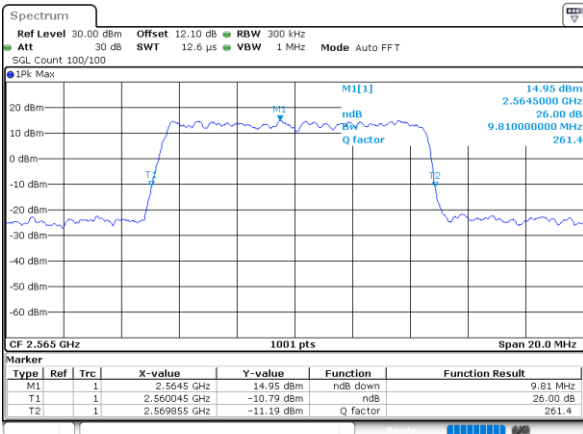
Date: 18_AUG.2020 06:12:17

Middle Channel / 10MHz / 16QAM



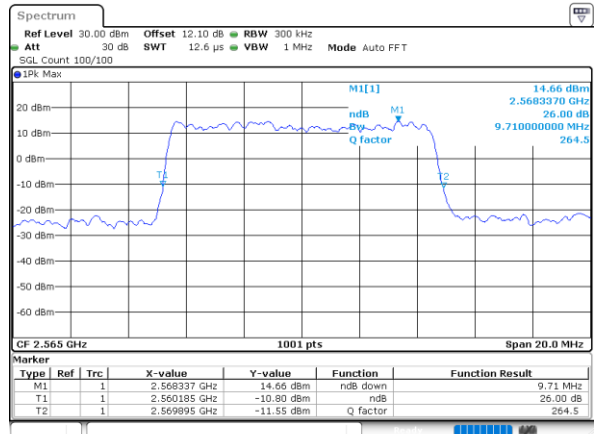
Date: 18_AUG.2020 06:12:28

Highest Channel / 10MHz / QPSK



Date: 18_AUG.2020 06:14:41

Highest Channel / 10MHz / 16QAM

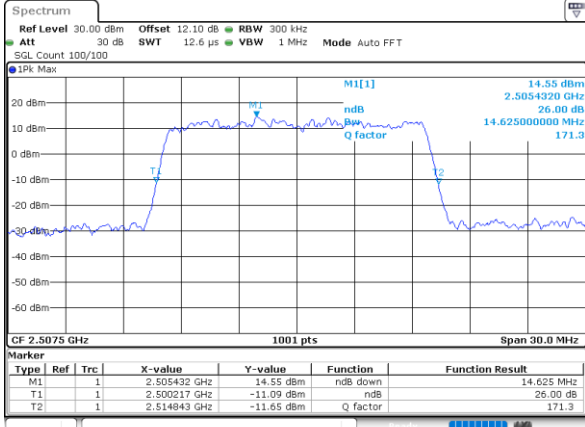


Date: 18_AUG.2020 06:14:53



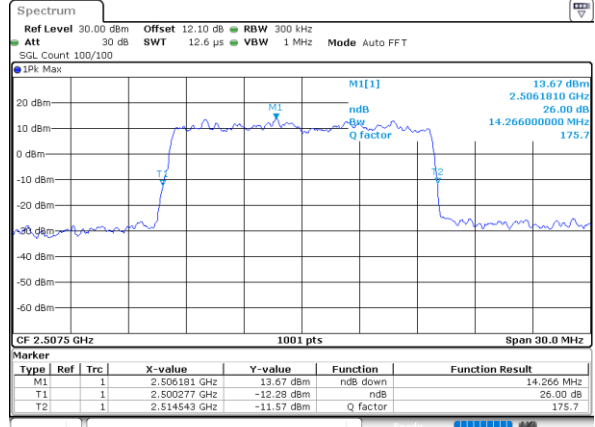
LTE Band 7

Lowest Channel / 15MHz / QPSK



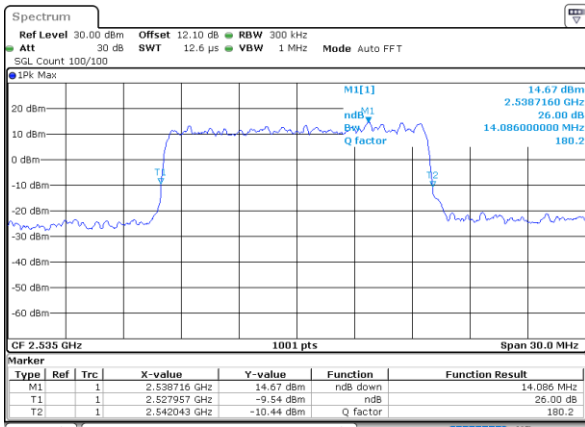
Date: 18_AUG.2020 06:19:49

Lowest Channel / 15MHz / 16QAM



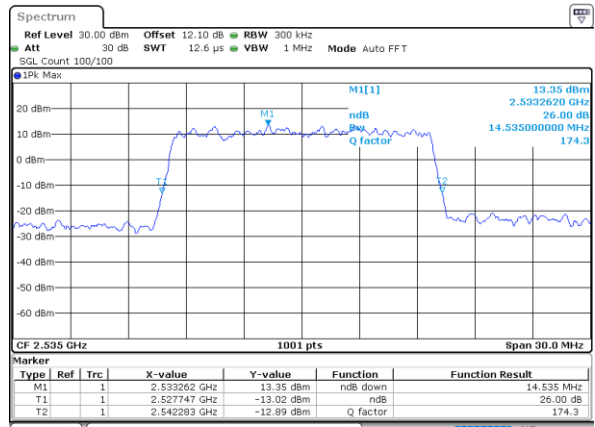
Date: 18_AUG.2020 06:20:01

Middle Channel / 15MHz / QPSK



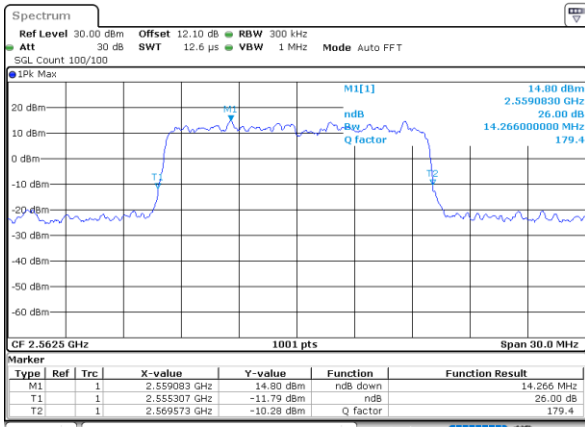
Date: 18_AUG.2020 06:24:57

Middle Channel / 15MHz / 16QAM



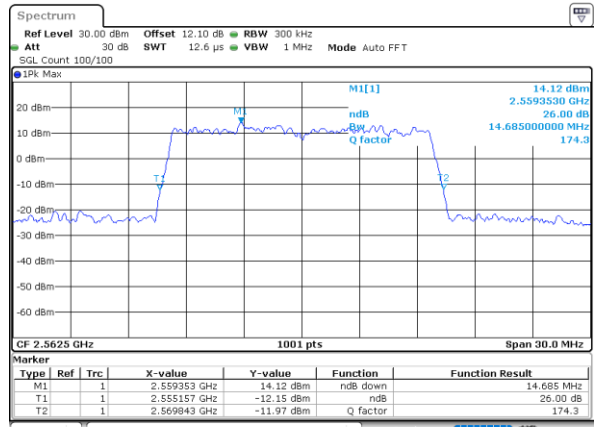
Date: 18_AUG.2020 06:25:09

Highest Channel / 15MHz / QPSK



Date: 18_AUG.2020 06:27:22

Highest Channel / 15MHz / 16QAM

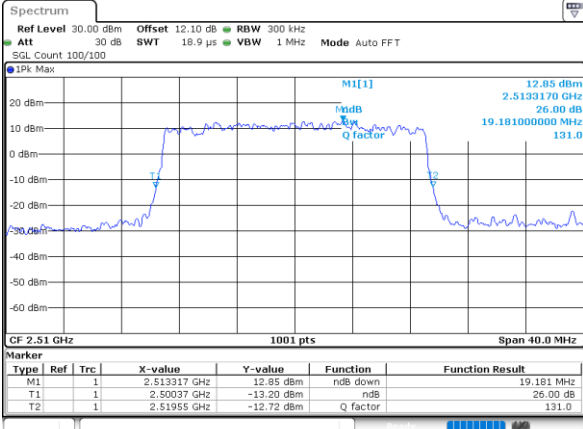


Date: 18_AUG.2020 06:27:34



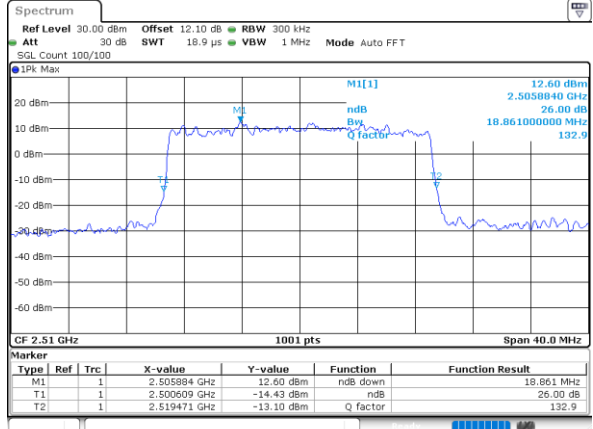
LTE Band 7

Lowest Channel / 20MHz / QPSK



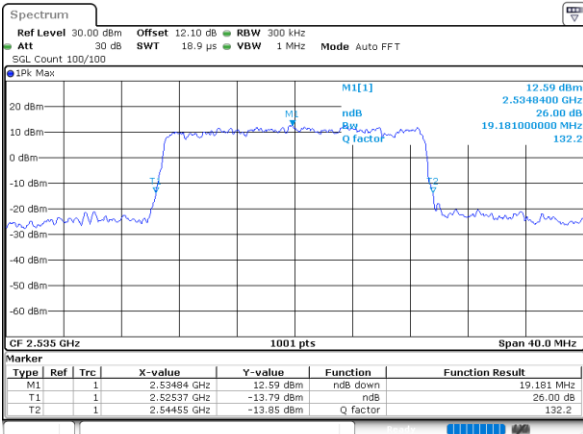
Date: 18_AUG.2020 06:32:13

Lowest Channel / 20MHz / 16QAM



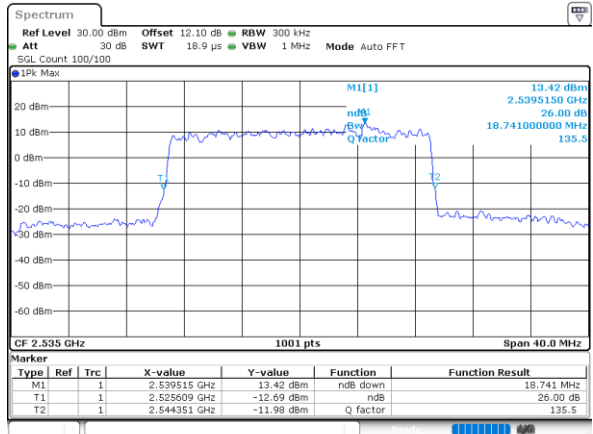
Date: 18_AUG.2020 06:32:43

Middle Channel / 20MHz / QPSK



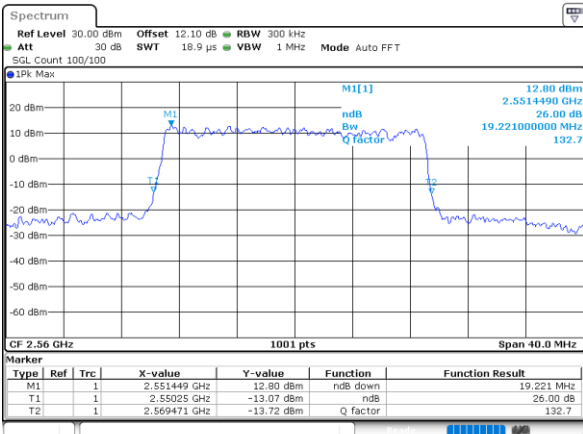
Date: 18_AUG.2020 06:37:39

Middle Channel / 20MHz / 16QAM



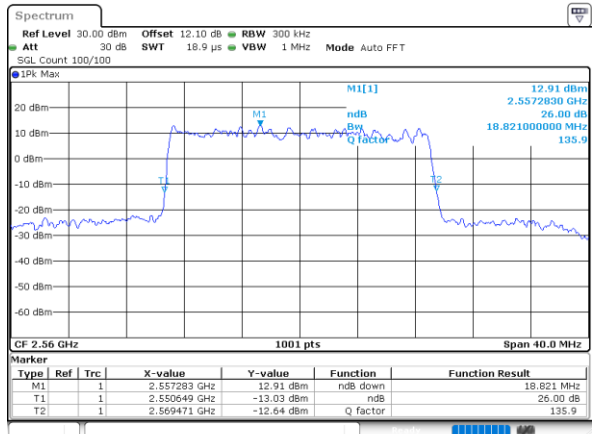
Date: 18_AUG.2020 06:37:51

Highest Channel / 20MHz / QPSK



Date: 18_AUG.2020 06:40:04

Highest Channel / 20MHz / 16QAM

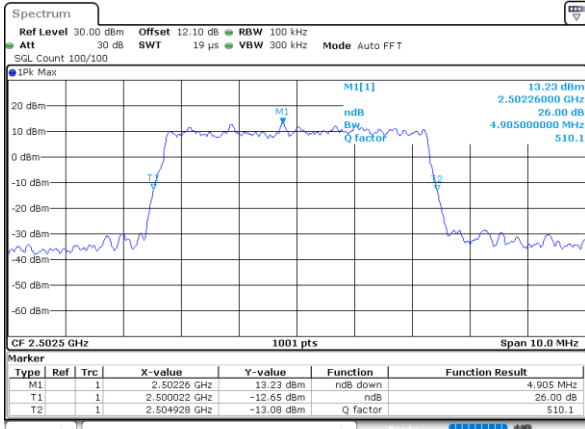


Date: 18_AUG.2020 06:40:16



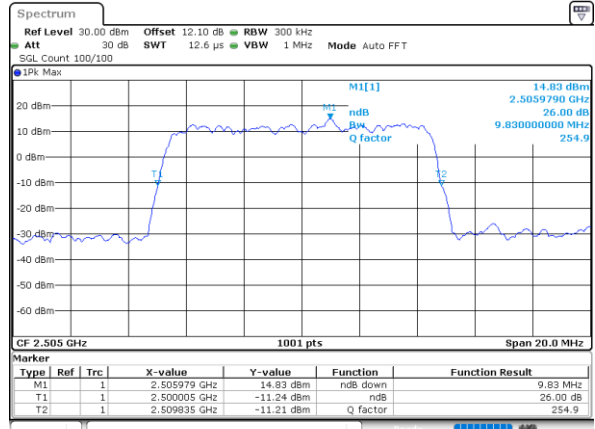
LTE Band 7

Lowest Channel / 5MHz / 64QAM



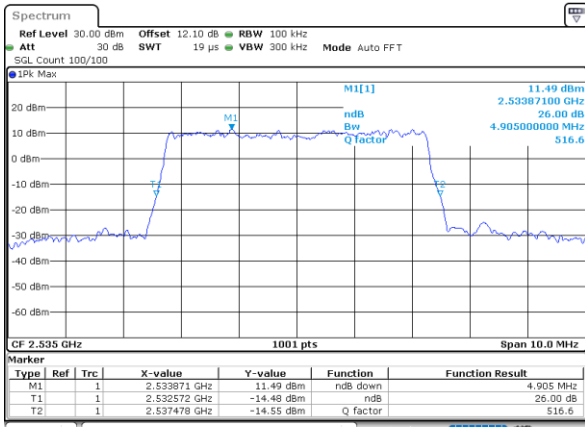
Date: 4,SEP,2020 21:29:04

Lowest Channel / 10MHz / 64QAM



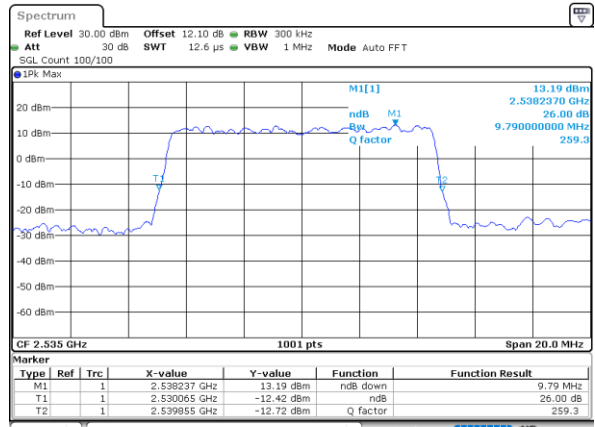
Date: 4,SEP,2020 21:35:23

Middle Channel / 5MHz / 64QAM



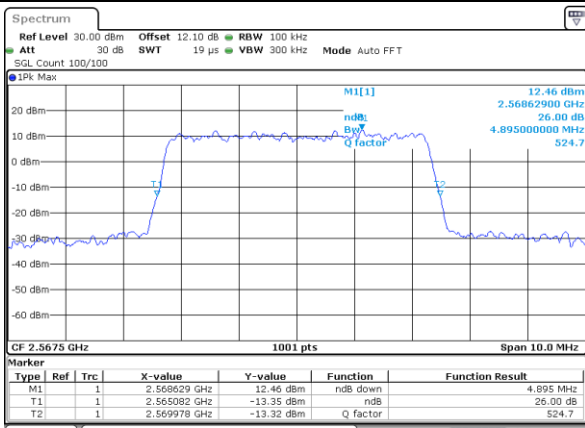
Date: 4,SEP,2020 21:31:37

Middle Channel / 10MHz / 64QAM



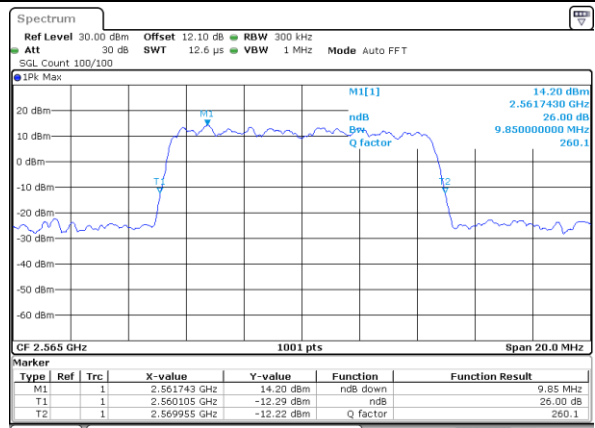
Date: 4,SEP,2020 21:37:55

Highest Channel / 5MHz / 64QAM



Date: 4,SEP,2020 21:32:49

Highest Channel / 10MHz / 64QAM

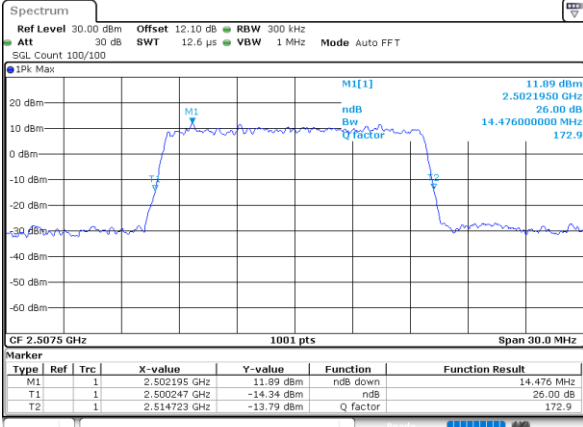


Date: 4,SEP,2020 21:39:07



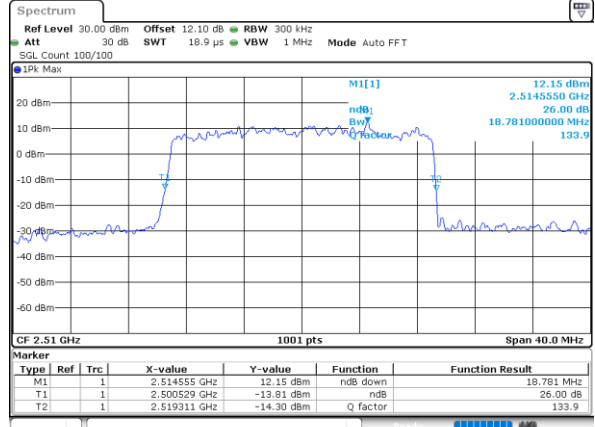
LTE Band 7

Lowest Channel / 15MHz / 64QAM



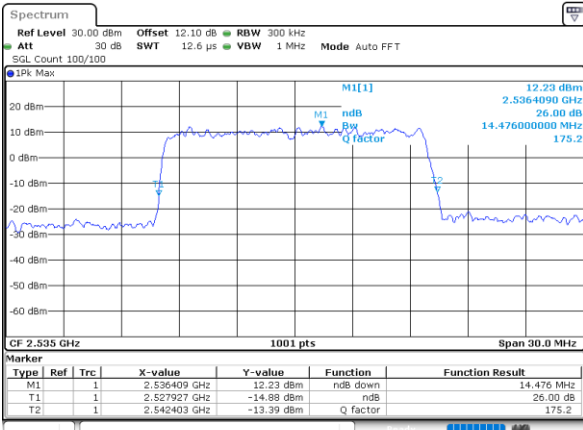
Date: 4,SEP,2020 21:41:41

Lowest Channel / 20MHz / 64QAM



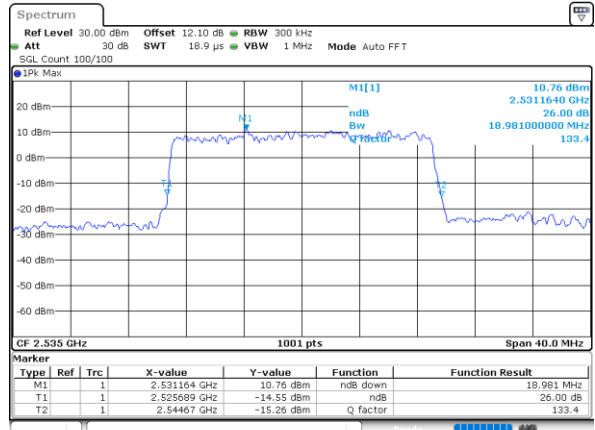
Date: 4,SEP,2020 21:48:00

Middle Channel / 15MHz / 64QAM



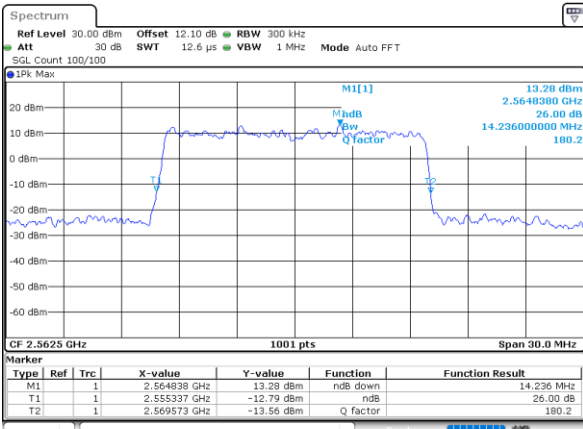
Date: 4,SEP,2020 21:44:15

Middle Channel / 20MHz / 64QAM



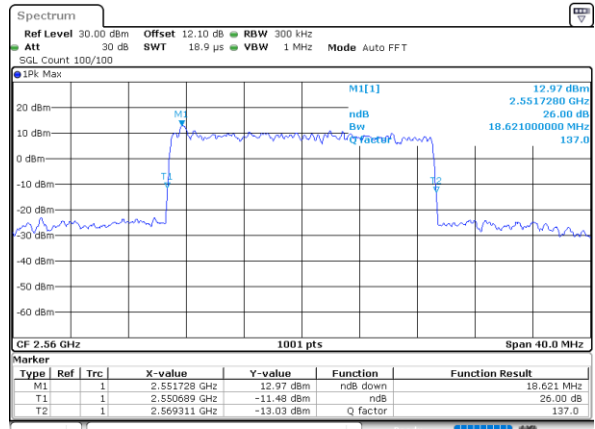
Date: 4,SEP,2020 21:50:33

Highest Channel / 15MHz / 64QAM



Date: 4,SEP,2020 21:45:26

Highest Channel / 20MHz / 64QAM



Date: 4,SEP,2020 21:51:45



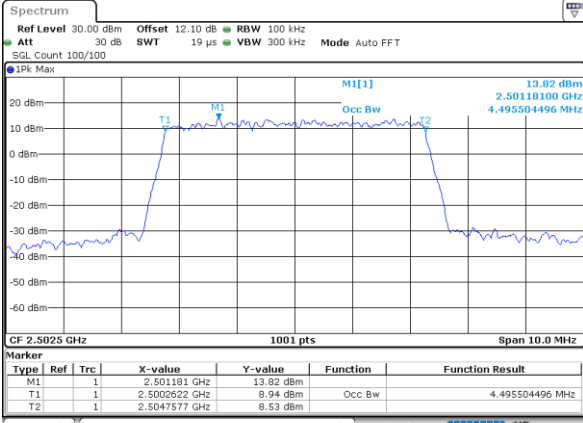
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.50	4.50	9.01	9.07	13.43	13.46	17.78	17.86
Middle CH	-	-	-	-	4.52	4.50	8.97	9.03	13.43	13.46	17.86	17.82
Highest CH	-	-	-	-	4.51	4.50	9.03	9.05	13.49	13.46	17.90	17.90
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	8.95	-	13.43	-	17.78	-
Middle CH	-	-	-	-	4.50	-	9.05	-	13.43	-	17.90	-
Highest CH	-	-	-	-	4.51	-	9.07	-	13.49	-	17.82	-



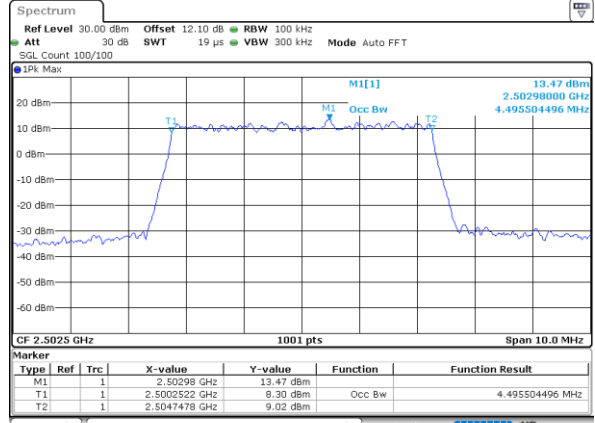
LTE Band 7

Lowest Channel / 5MHz / QPSK



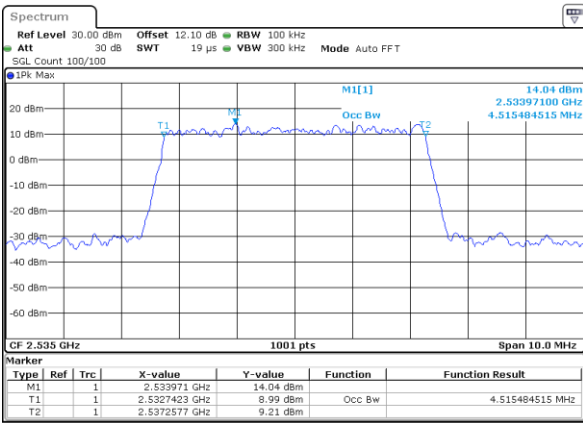
Date: 18_AUG.2020 05:54:06

Lowest Channel / 5MHz / 16QAM



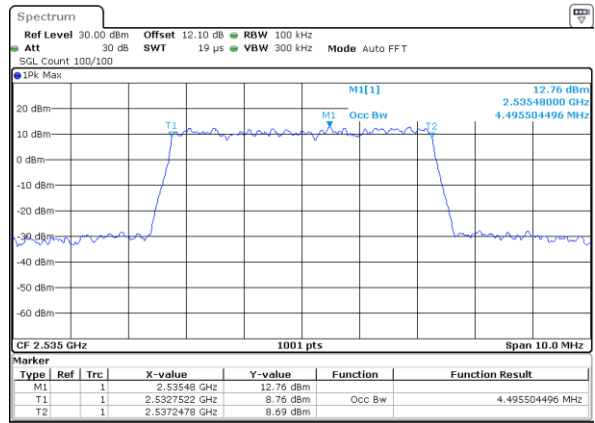
Date: 18_AUG.2020 05:54:18

Middle Channel / 5MHz / QPSK



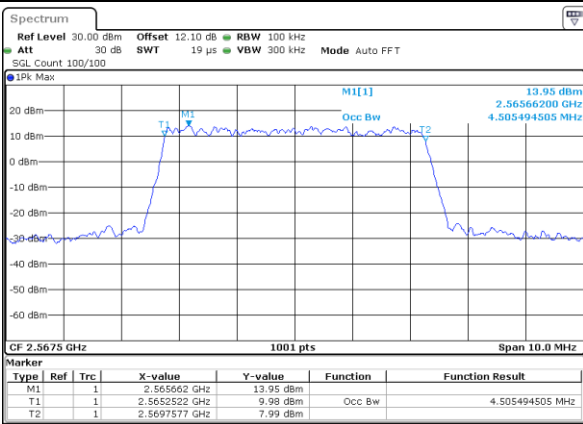
Date: 18_AUG.2020 05:59:15

Middle Channel / 5MHz / 16QAM



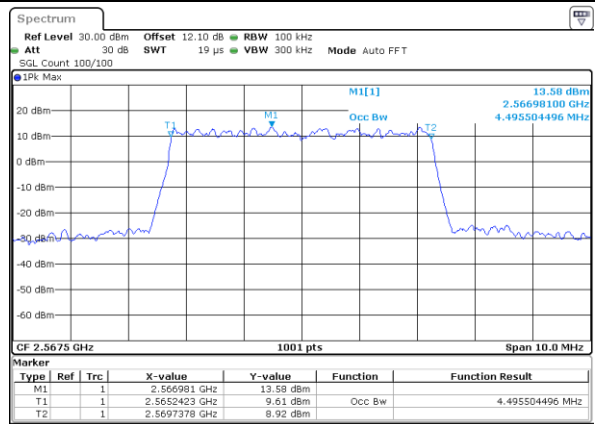
Date: 18_AUG.2020 05:59:26

Highest Channel / 5MHz / QPSK



Date: 18_AUG.2020 06:01:39

Highest Channel / 5MHz / 16QAM

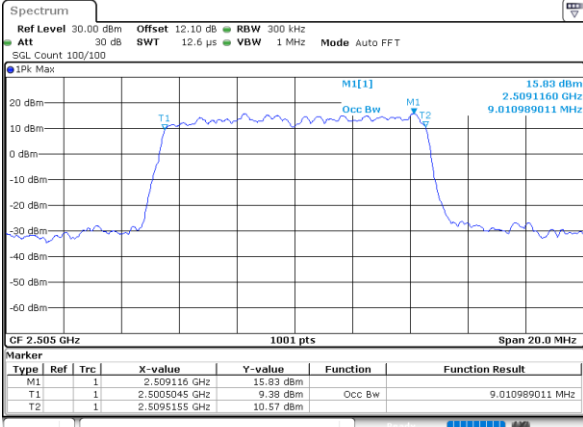


Date: 18_AUG.2020 06:01:51



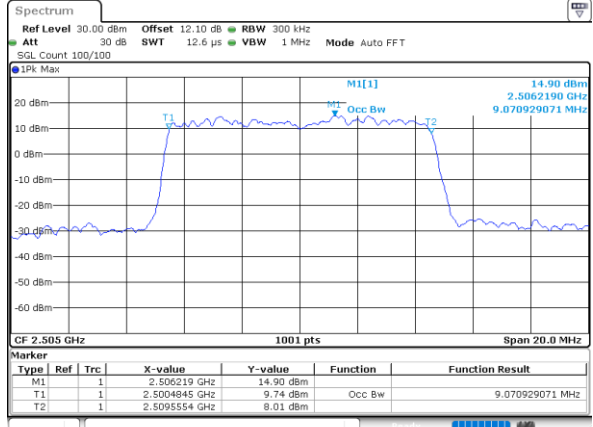
LTE Band 7

Lowest Channel / 10MHz / QPSK



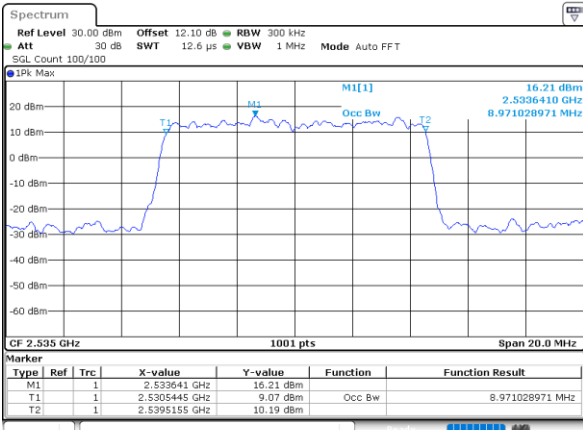
Date: 18_AUG.2020 06:10:47

Lowest Channel / 10MHz / 16QAM



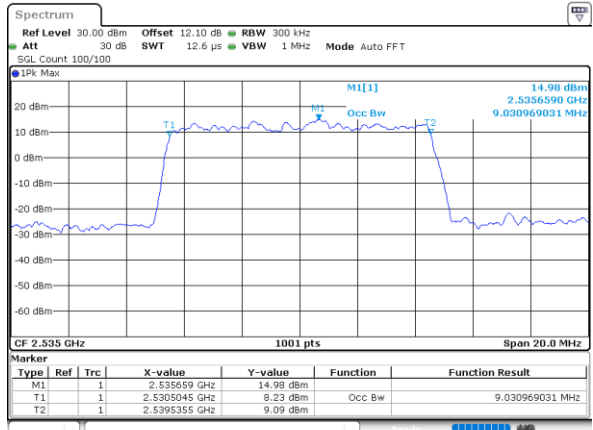
Date: 18_AUG.2020 06:10:59

Middle Channel / 10MHz / QPSK



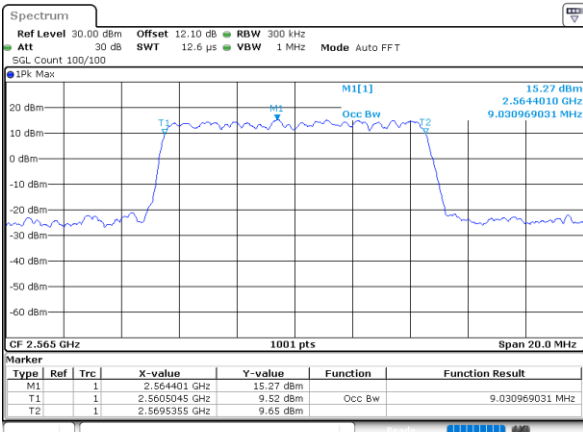
Date: 18_AUG.2020 06:11:54

Middle Channel / 10MHz / 16QAM



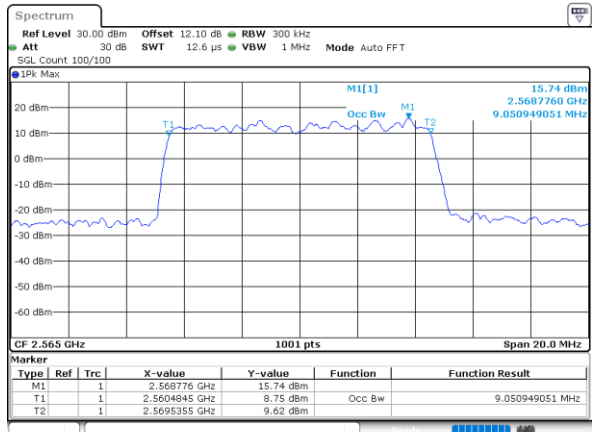
Date: 18_AUG.2020 06:12:05

Highest Channel / 10MHz / QPSK



Date: 18_AUG.2020 06:14:17

Highest Channel / 10MHz / 16QAM

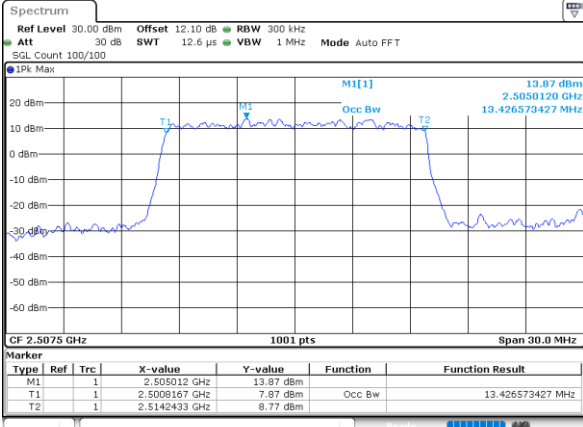


Date: 18_AUG.2020 06:14:29



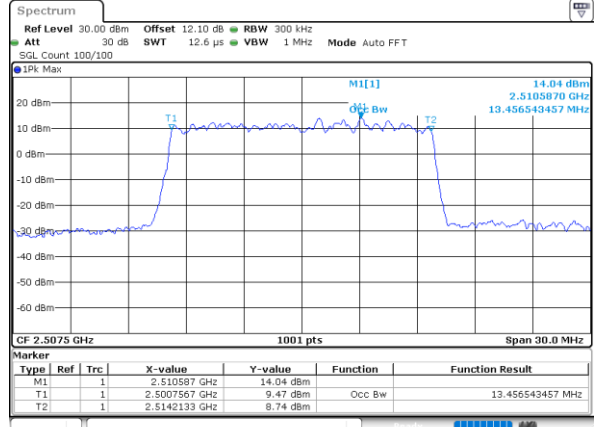
LTE Band 7

Lowest Channel / 15MHz / QPSK



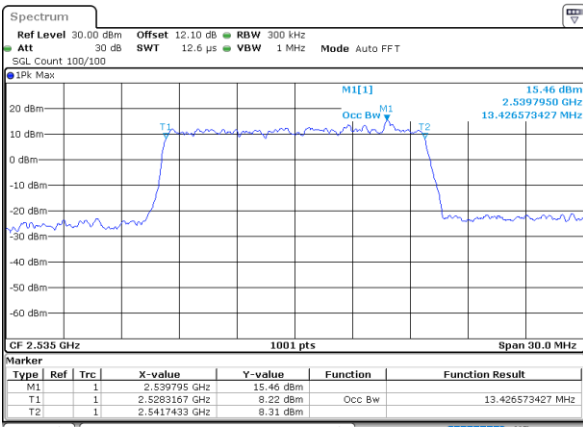
Date: 18_AUG.2020 06:19:26

Lowest Channel / 15MHz / 16QAM



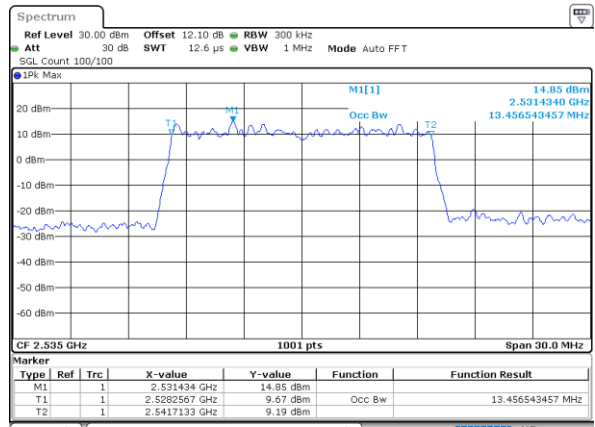
Date: 18_AUG.2020 06:19:38

Middle Channel / 15MHz / QPSK



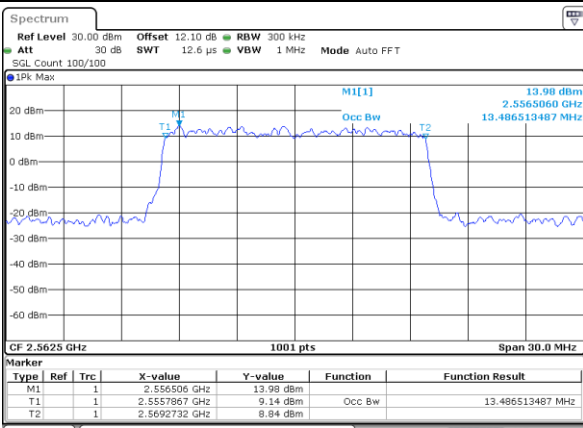
Date: 18_AUG.2020 06:24:05

Middle Channel / 15MHz / 16QAM



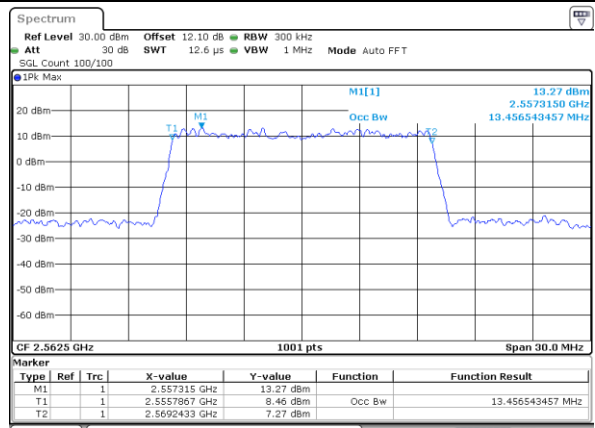
Date: 18_AUG.2020 06:24:46

Highest Channel / 15MHz / QPSK



Date: 18_AUG.2020 06:26:59

Highest Channel / 15MHz / 16QAM

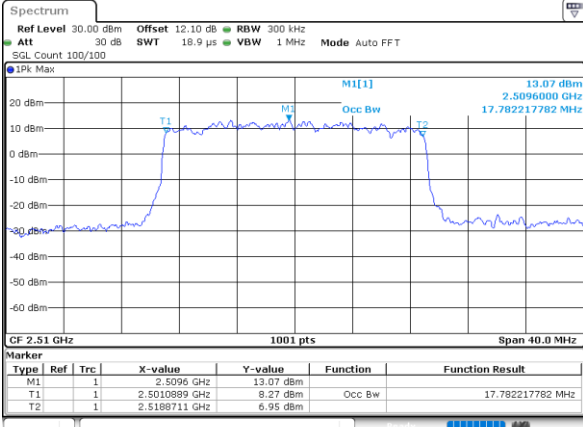


Date: 18_AUG.2020 06:27:10



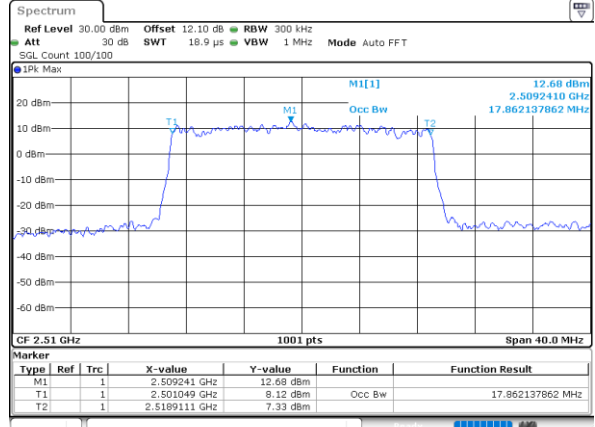
LTE Band 7

Lowest Channel / 20MHz / QPSK



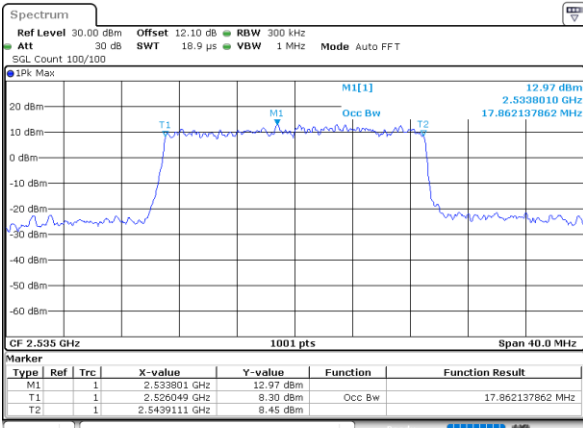
Date: 18_AUG.2020 06:32:07

Lowest Channel / 20MHz / 16QAM



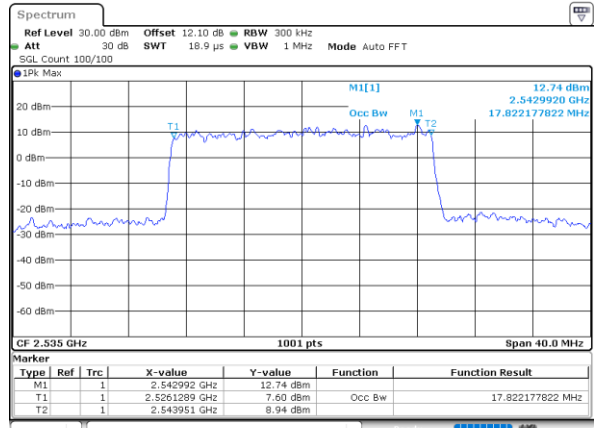
Date: 18_AUG.2020 06:32:19

Middle Channel / 20MHz / QPSK



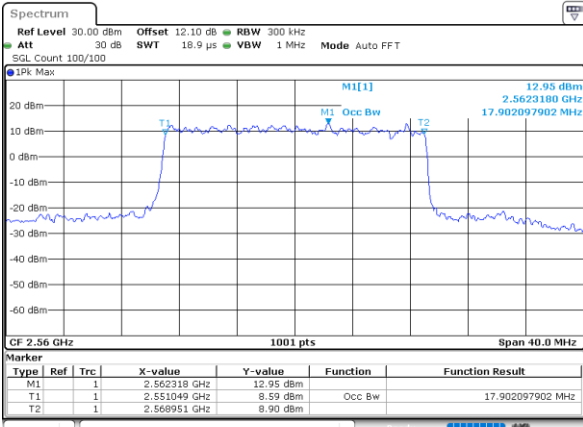
Date: 18_AUG.2020 06:37:16

Middle Channel / 20MHz / 16QAM



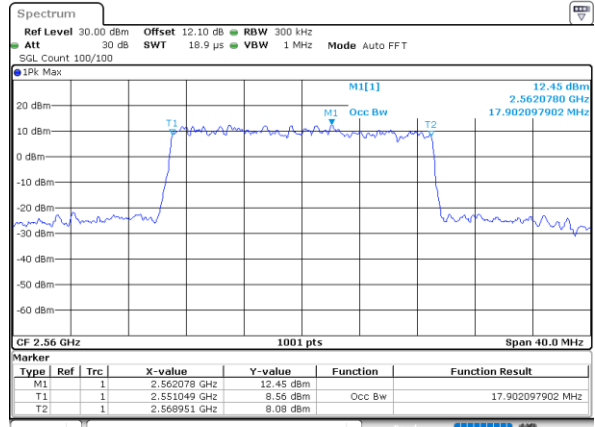
Date: 18_AUG.2020 06:37:28

Highest Channel / 20MHz / QPSK



Date: 18_AUG.2020 06:39:41

Highest Channel / 20MHz / 16QAM

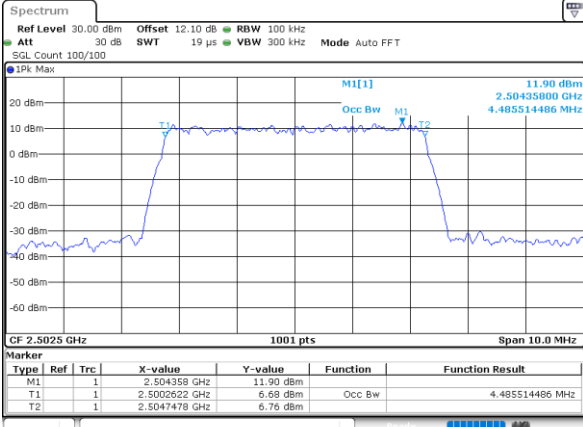


Date: 18_AUG.2020 06:39:52



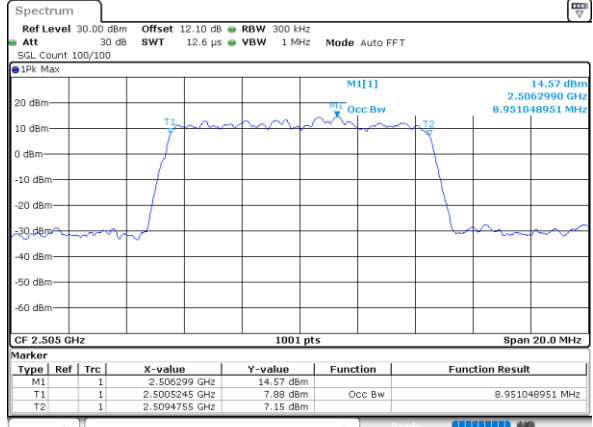
LTE Band 7

Lowest Channel / 5MHz / 64QAM



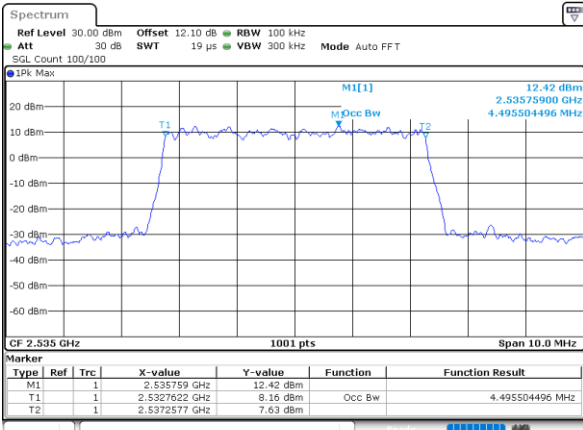
Date: 4,SEP,2020 21:28:53

Lowest Channel / 10MHz / 64QAM



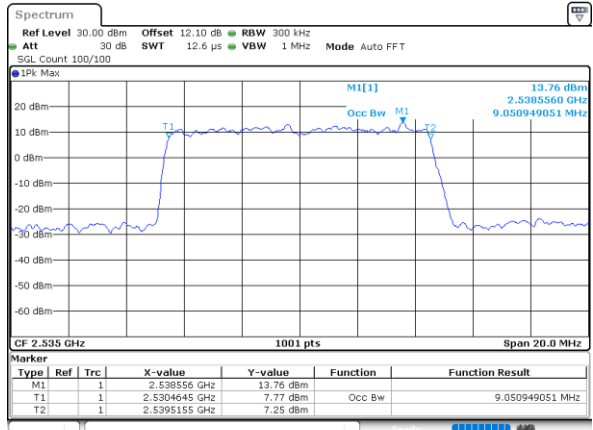
Date: 4,SEP,2020 21:35:11

Middle Channel / 5MHz / 64QAM



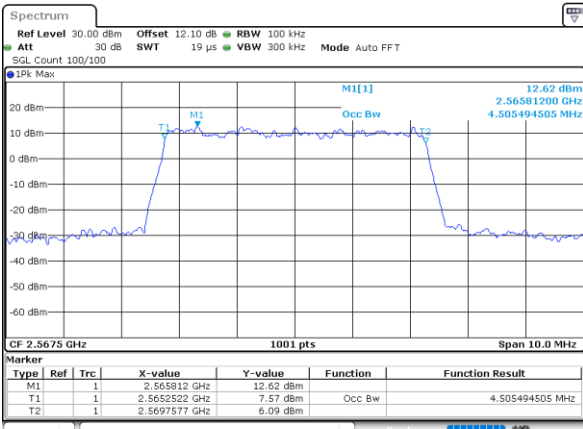
Date: 4,SEP,2020 21:31:26

Middle Channel / 10MHz / 64QAM



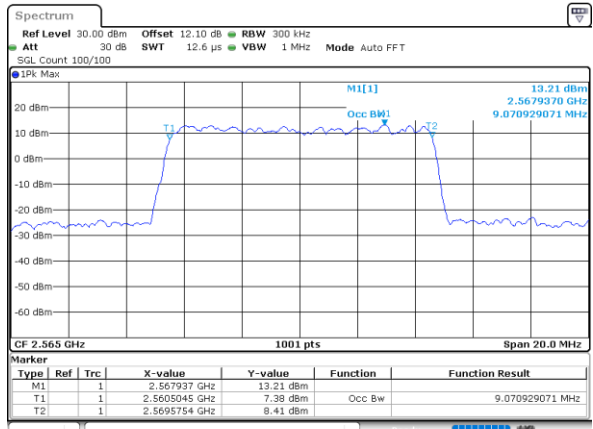
Date: 4,SEP,2020 21:37:44

Highest Channel / 5MHz / 64QAM



Date: 4,SEP,2020 21:32:38

Highest Channel / 10MHz / 64QAM

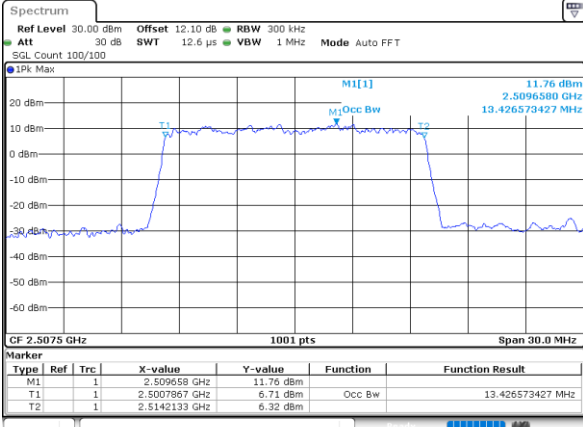


Date: 4,SEP,2020 21:37:56

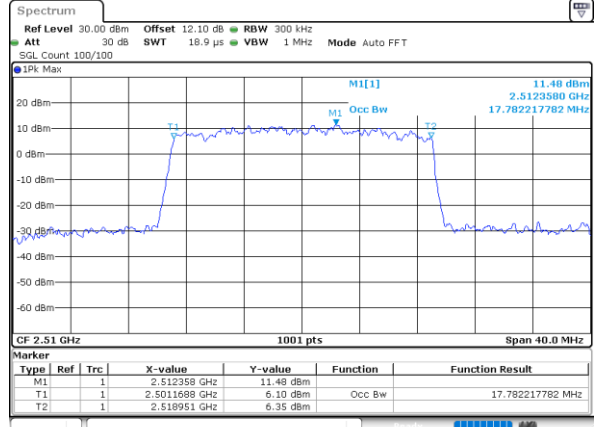


LTE Band 7

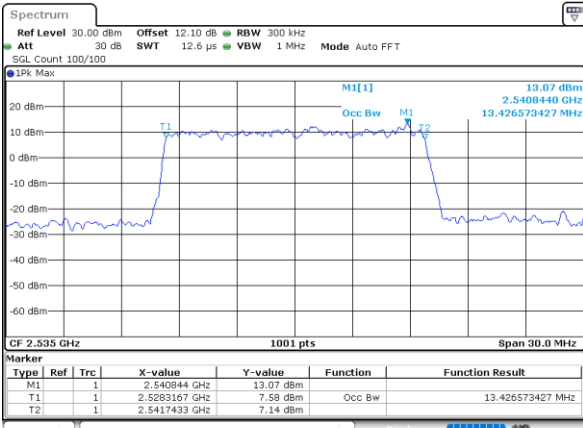
Lowest Channel / 15MHz / 64QAM



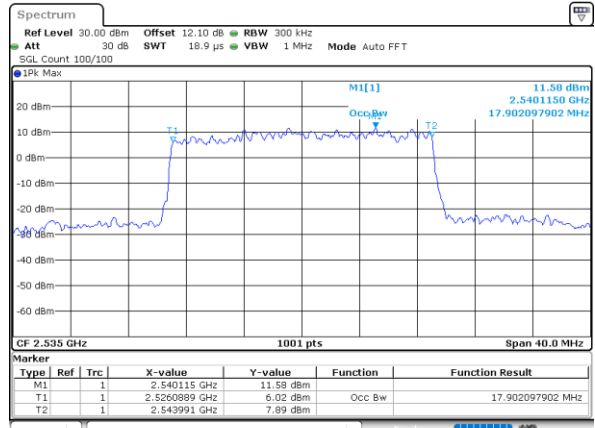
Lowest Channel / 20MHz / 64QAM



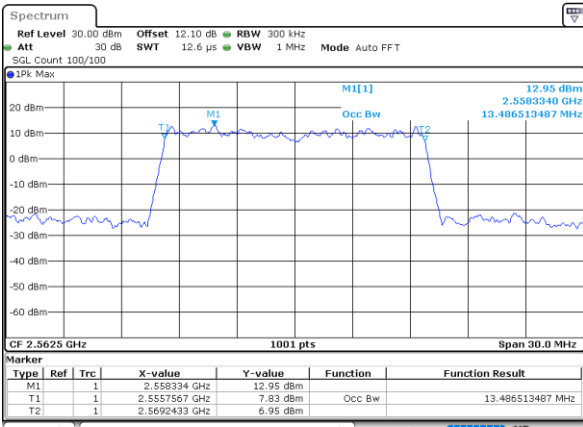
Middle Channel / 15MHz / 64QAM



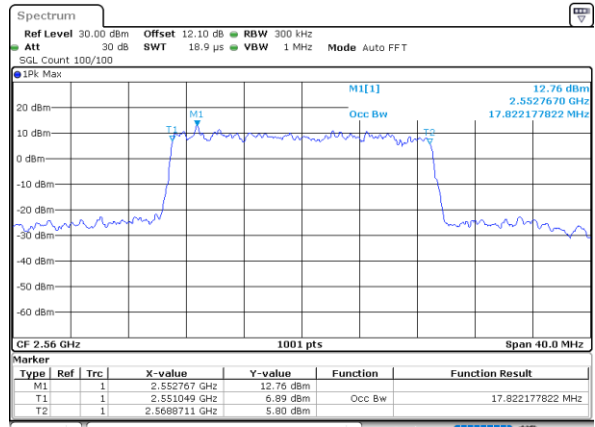
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

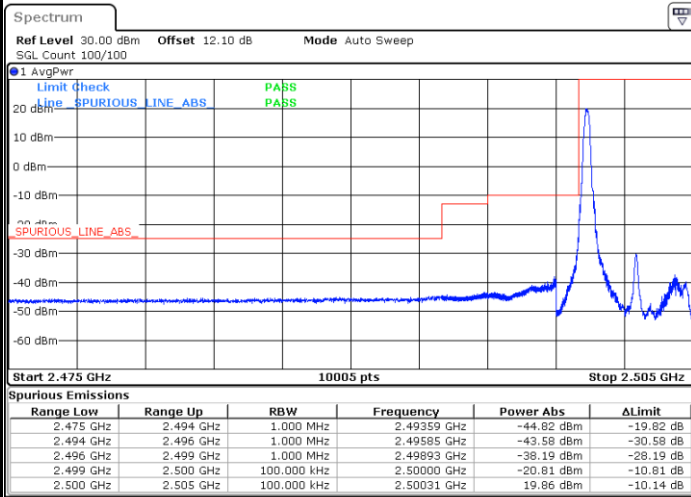




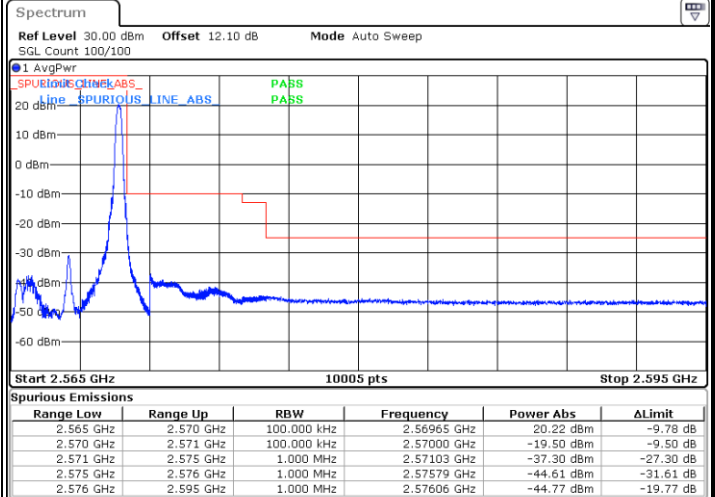
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

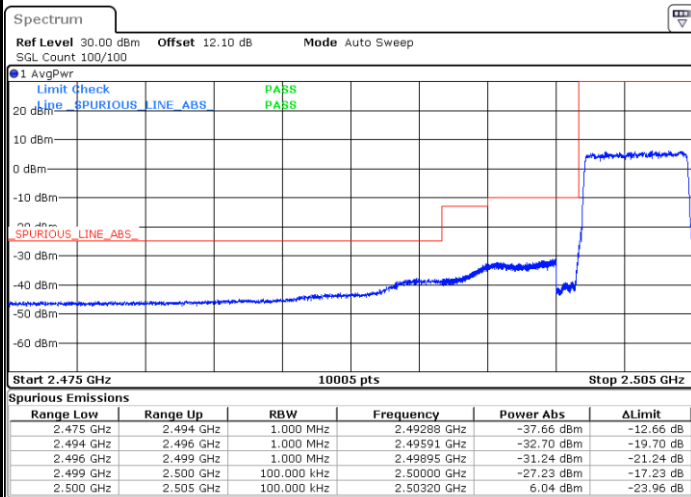
Lowest Band Edge / 1 RB



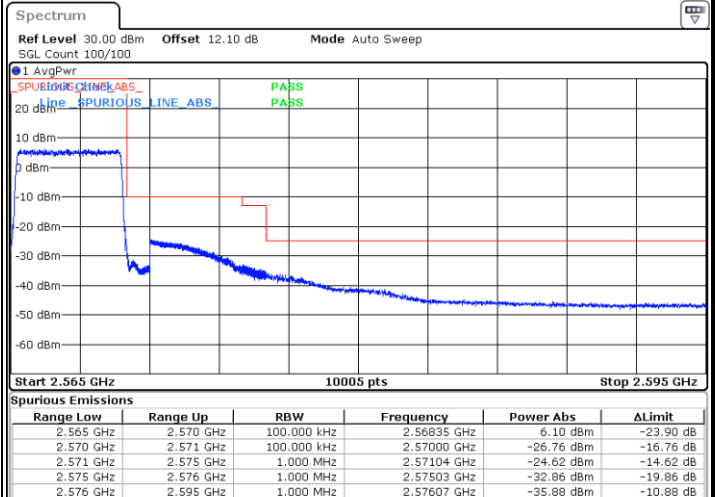
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



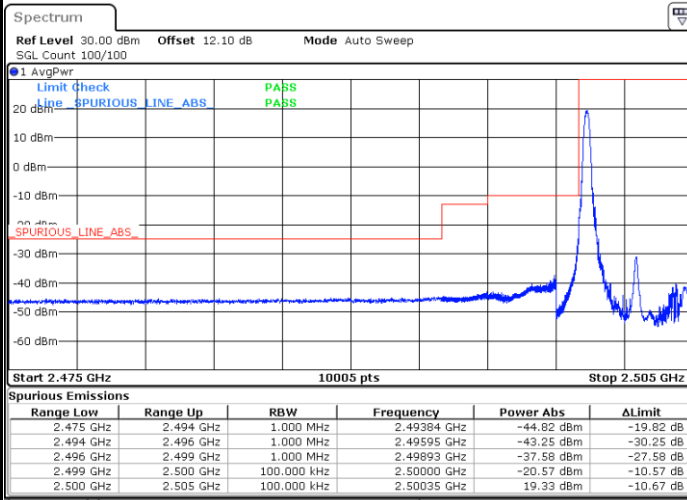
Highest Band Edge / Full RB





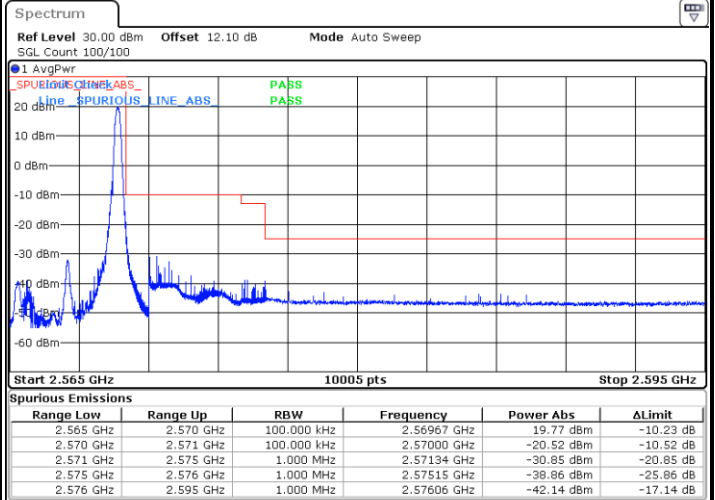
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



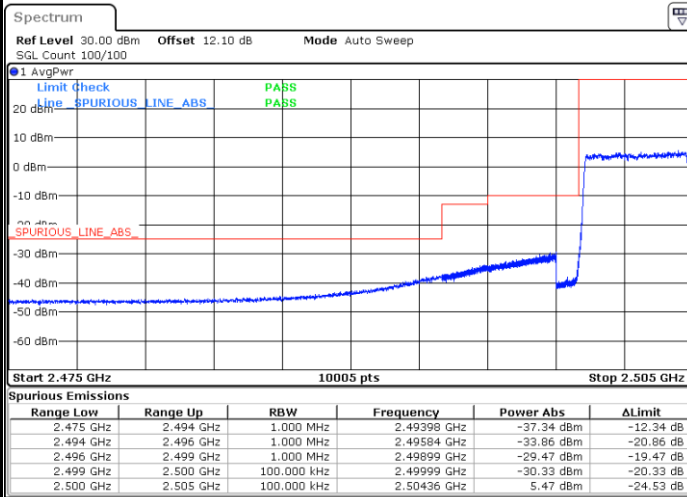
Date: 18.AUG.2020 05:56:03

Highest Band Edge / 1 RB



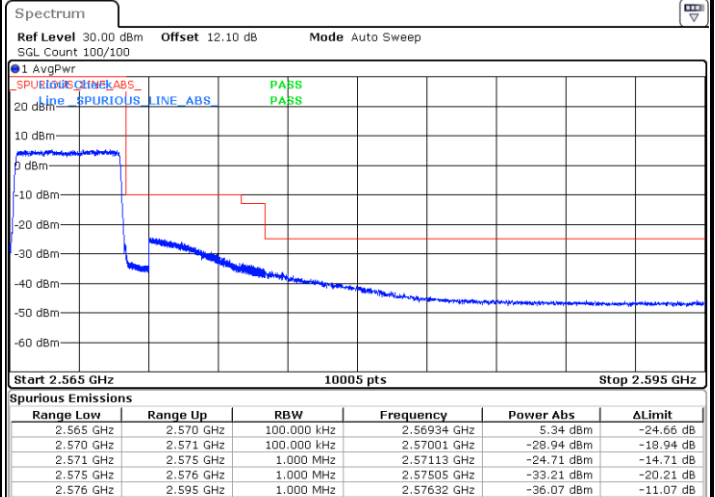
Date: 18.AUG.2020 06:03:34

Lowest Band Edge / Full RB



Date: 18.AUG.2020 05:57:24

Highest Band Edge / Full RB



Date: 18.AUG.2020 06:04:55