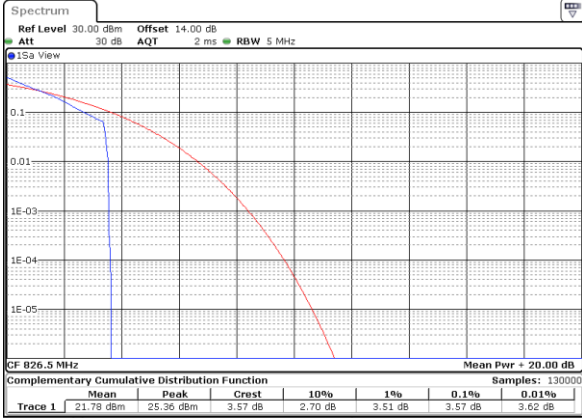




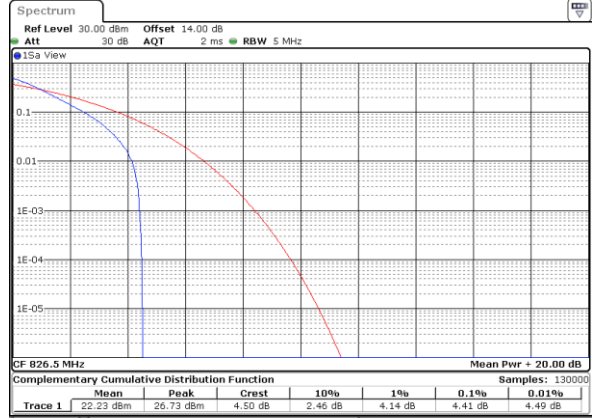
LTE Band 18 / 5MHz / QPSK

Lowest Channel / 1RB



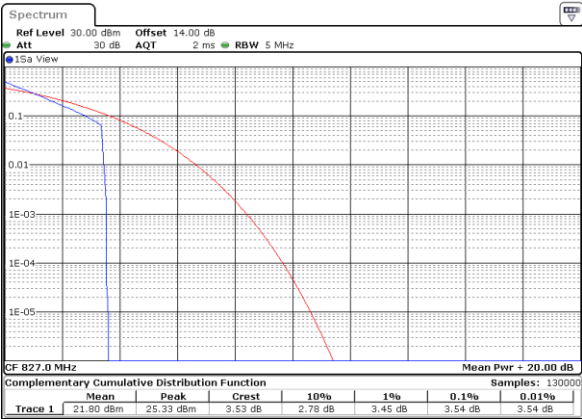
Date: 31.MAR.2022 11:05:38

Lowest Channel / Full RB



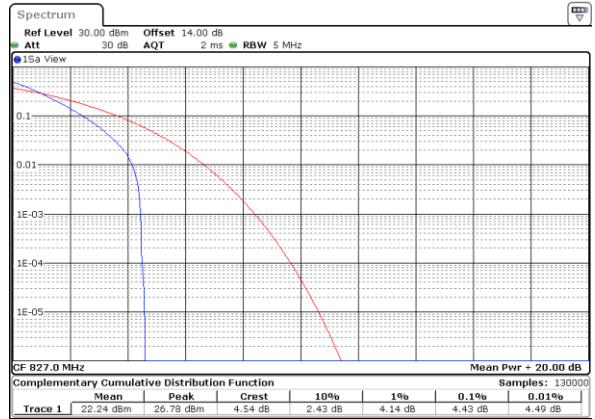
Date: 31.MAR.2022 11:05:00

Middle Channel / 1RB



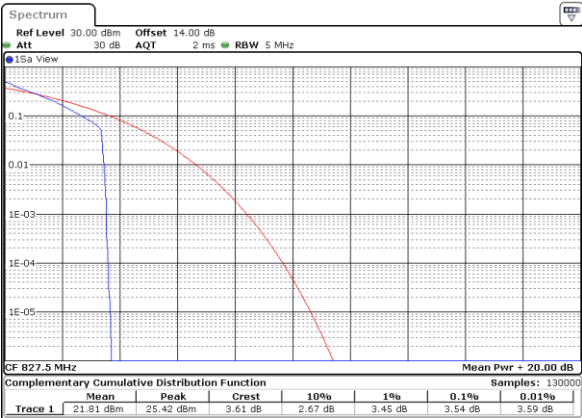
Date: 31.MAR.2022 11:06:25

Middle Channel / Full RB



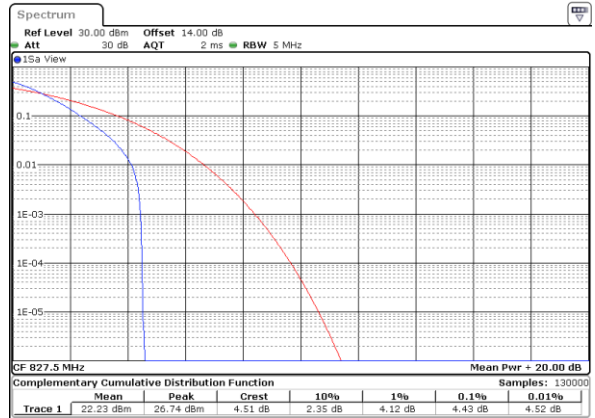
Date: 31.MAR.2022 11:07:46

Highest Channel / 1RB



Date: 31.MAR.2022 11:27:56

Highest Channel / Full RB

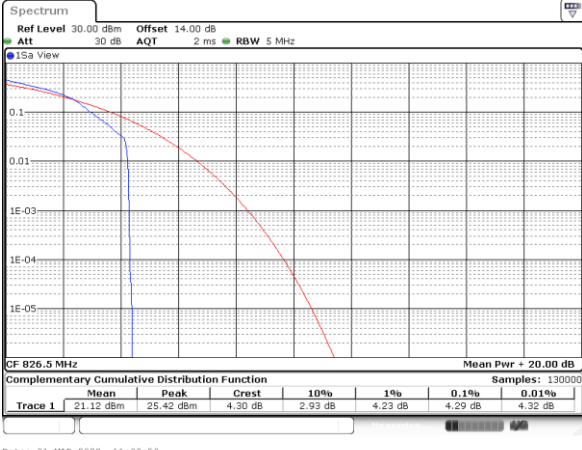


Date: 31.MAR.2022 11:25:17



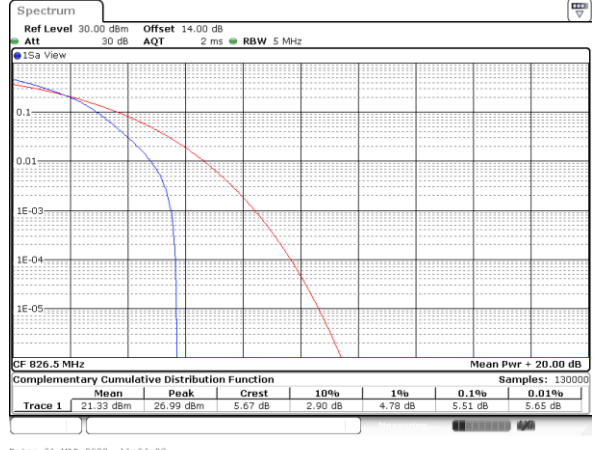
LTE Band 18 / 5MHz / 16QAM

Lowest Channel / 1RB



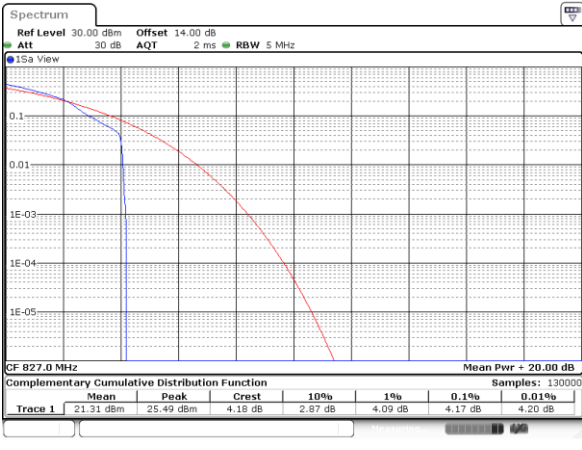
Date: 31.MAR.2022 11:03:53

Lowest Channel / Full RB



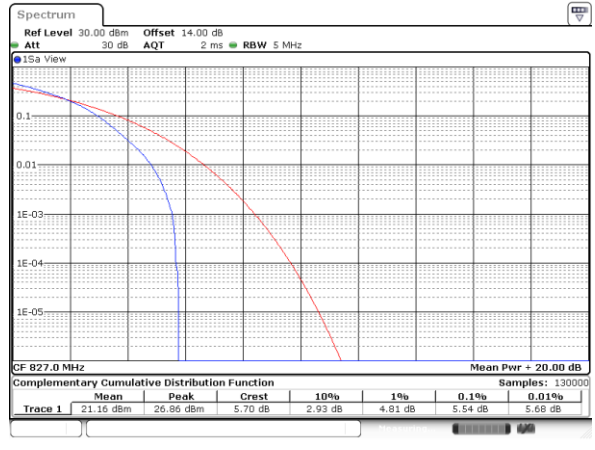
Date: 31.MAR.2022 11:04:28

Middle Channel / 1RB



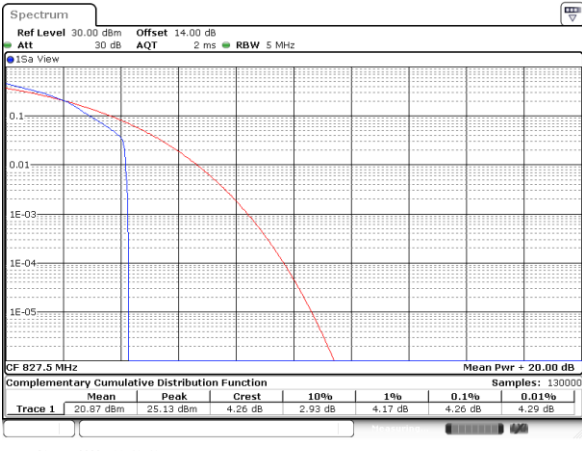
Date: 31.MAR.2022 11:20:46

Middle Channel / Full RB



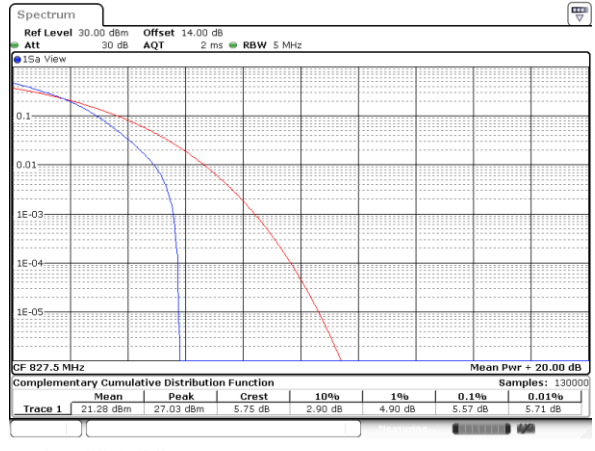
Date: 31.MAR.2022 11:19:02

Highest Channel / 1RB



Date: 31.MAR.2022 11:41:43

Highest Channel / Full RB

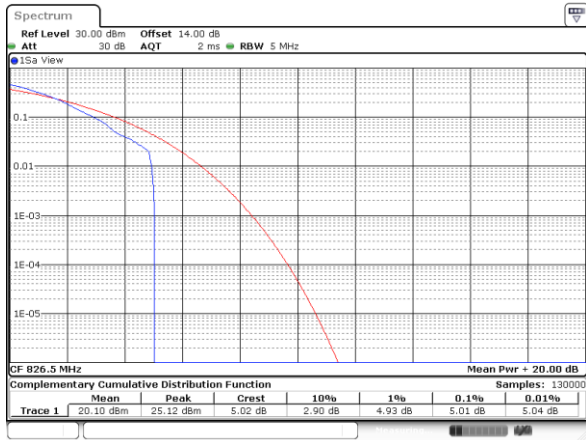


Date: 31.MAR.2022 11:35:00



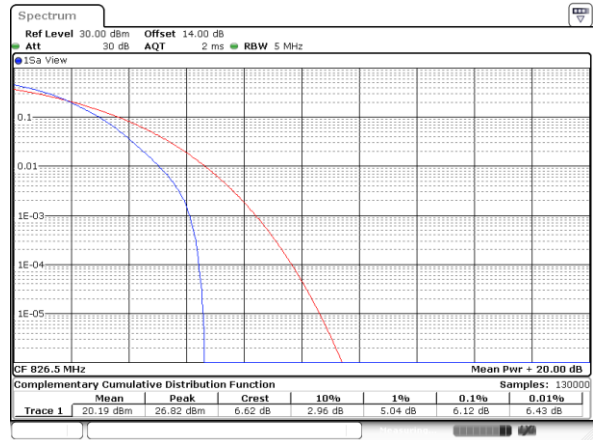
LTE Band 18 / 5MHz / 64QAM

Lowest Channel / 1RB



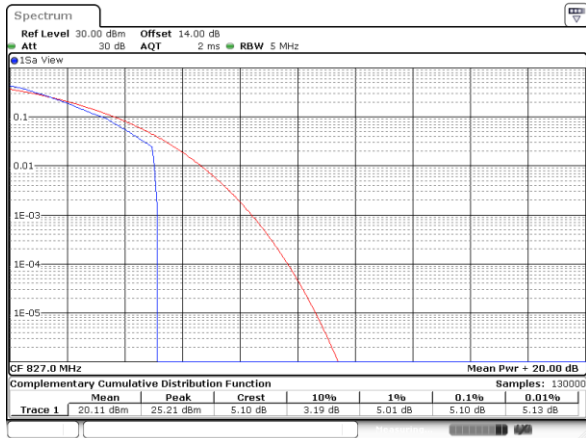
Date: 31.MAR.2022 11:00:55

Lowest Channel / Full RB



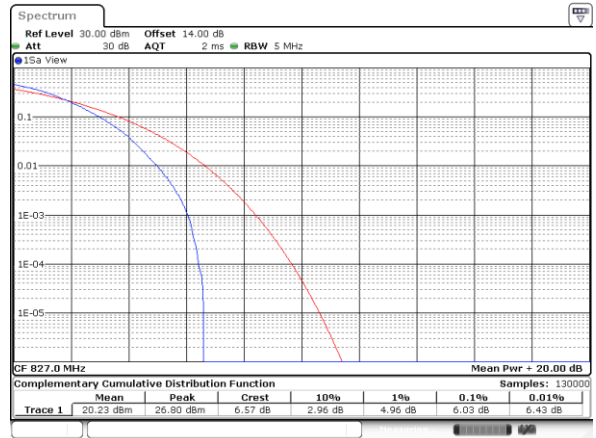
Date: 31.MAR.2022 10:59:46

Middle Channel / 1RB



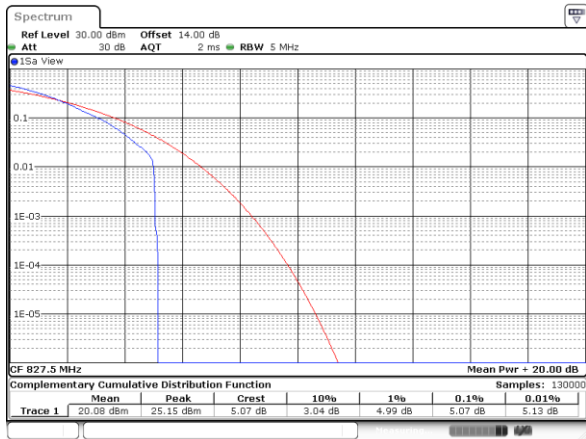
Date: 31.MAR.2022 11:22:06

Middle Channel / Full RB



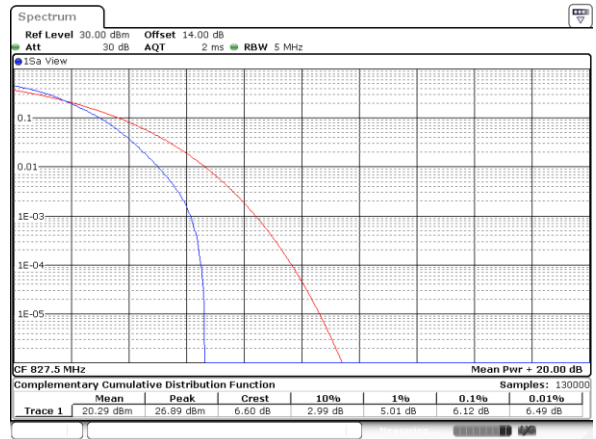
Date: 31.MAR.2022 11:23:37

Highest Channel / 1RB



Date: 31.MAR.2022 11:43:45

Highest Channel / Full RB



Date: 31.MAR.2022 11:46:05



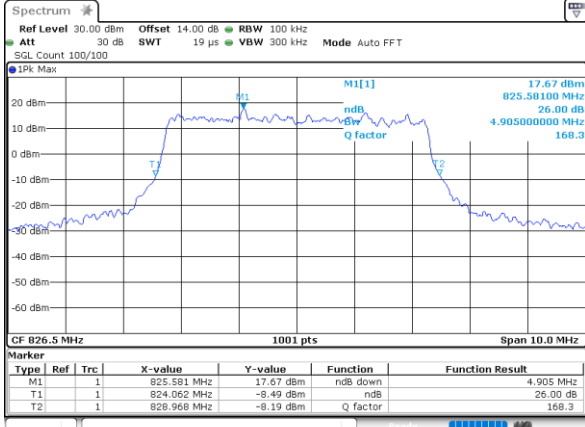
26dB Bandwidth

Mode	LTE Band 18 : 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	-	-	-	-	4.91	5.04	-	-	-	-	-	-
Middle CH	-	-	-	-	5.04	4.96	-	-	-	-	-	-
Highest CH	-	-	-	-	5.04	5.00	-	-	-	-	-	-
Mode	LTE Band 18 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.06	-	-	-	-	-	-	-
Middle CH	-	-	-	-	5.07	-	-	-	-	-	-	-
Highest CH	-	-	-	-	4.99	-	-	-	-	-	-	-



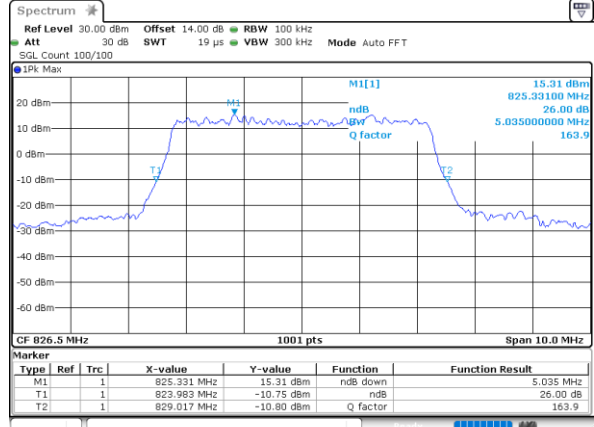
LTE Band 18

Lowest Channel / 5MHz / QPSK



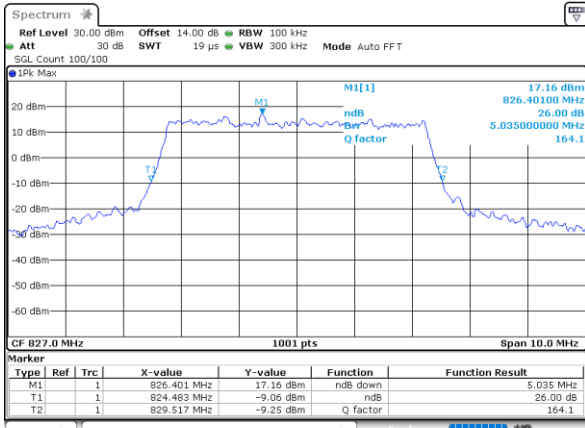
Date: 31.MAR.2022 10:28:42

Lowest Channel / 5MHz / 16QAM



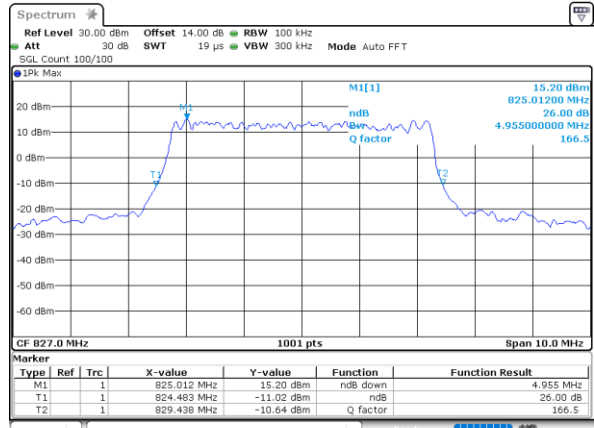
Date: 31.MAR.2022 10:54:23

Middle Channel / 5MHz / QPSK



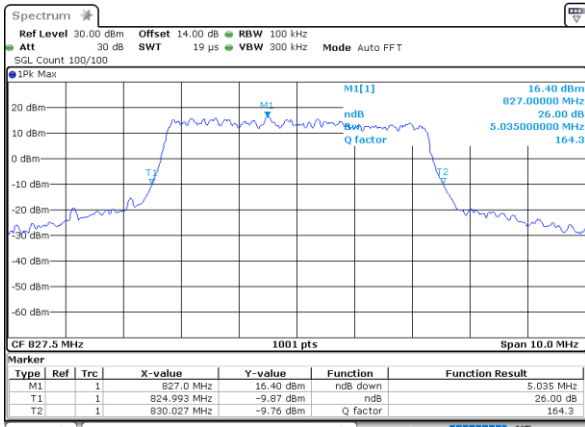
Date: 31.MAR.2022 11:09:26

Middle Channel / 5MHz / 16QAM



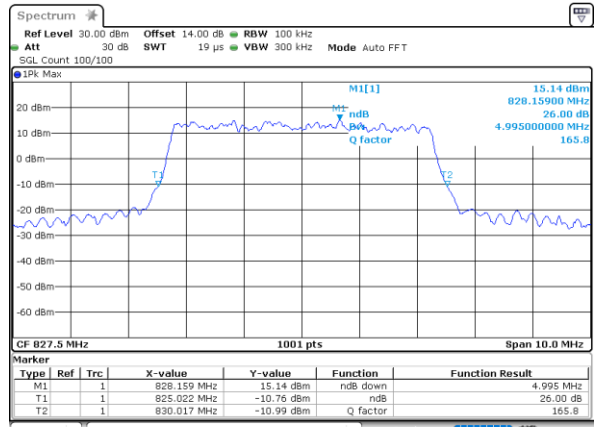
Date: 31.MAR.2022 11:19:54

Highest Channel / 5MHz / QPSK



Date: 31.MAR.2022 11:25:51

Highest Channel / 5MHz / 16QAM

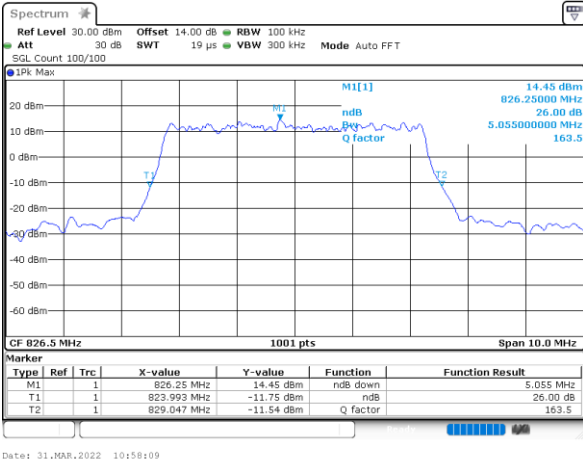


Date: 31.MAR.2022 11:35:47

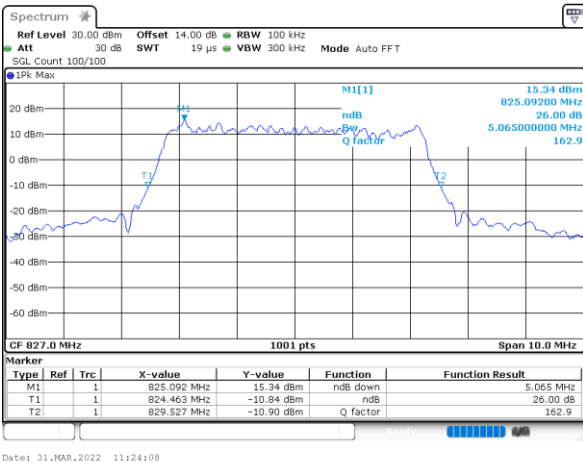


LTE Band 18

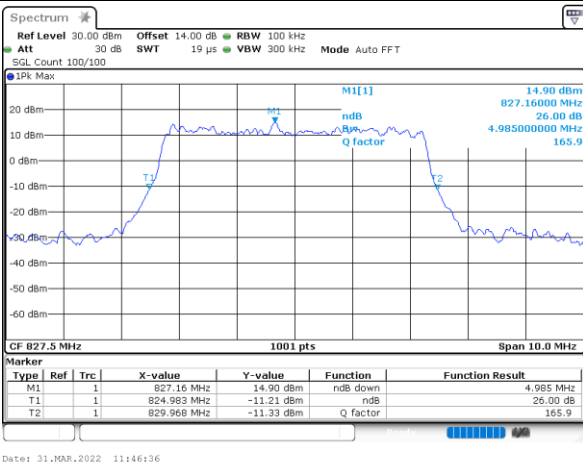
Lowest Channel / 5MHz / 64QAM



Middle Channel / 5MHz / 64QAM



Highest Channel / 5MHz / 64QAM





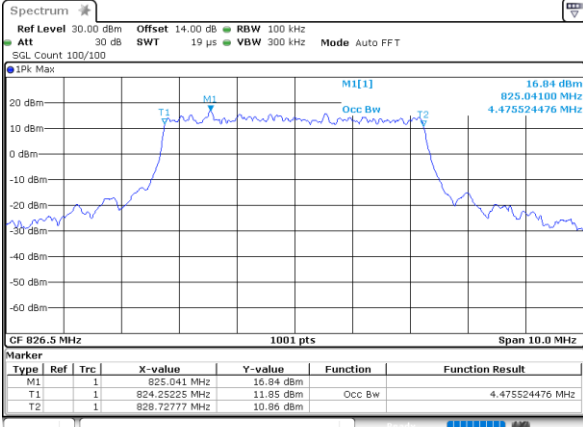
Occupied Bandwidth

Mode	LTE Band 18 : 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	-	-	-	-	4.48	4.48	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.50	-	-	-	-	-	-
Highest CH	-	-	-	-	4.49	4.50	-	-	-	-	-	-
Mode	LTE Band 18 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.45	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	-	-	-	-	-	-



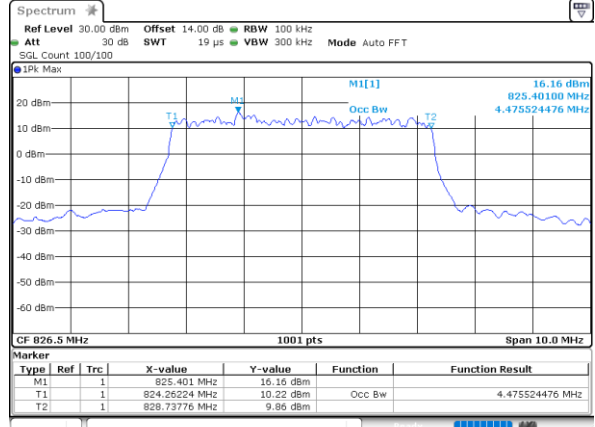
LTE Band 18

Lowest Channel / 5MHz / QPSK



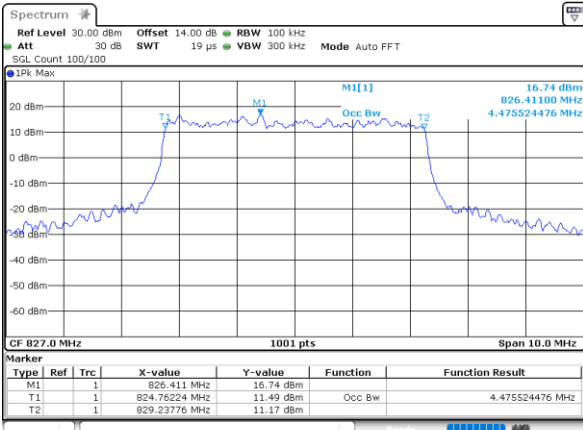
Date: 31.MAR.2022 10:28:25

Lowest Channel / 5MHz / 16QAM



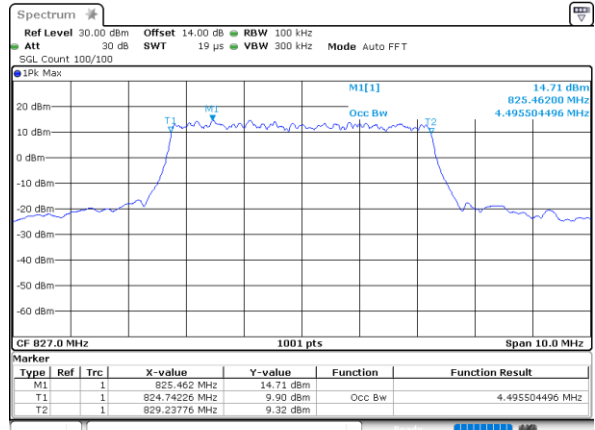
Date: 31.MAR.2022 10:54:02

Middle Channel / 5MHz / QPSK



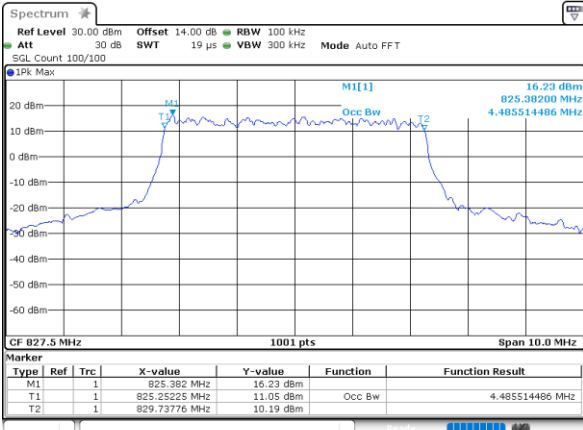
Date: 31.MAR.2022 11:08:56

Middle Channel / 5MHz / 16QAM



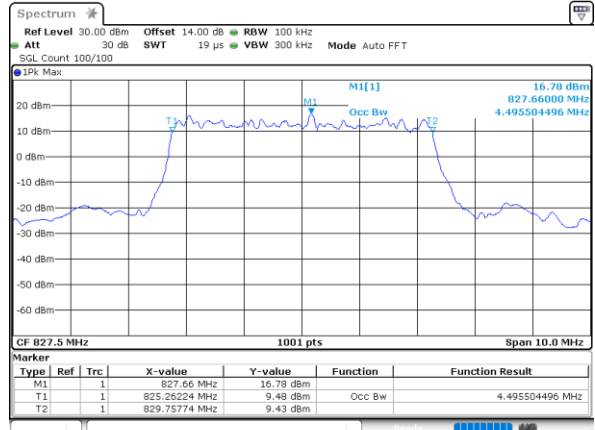
Date: 31.MAR.2022 11:19:38

Highest Channel / 5MHz / QPSK



Date: 31.MAR.2022 11:25:34

Highest Channel / 5MHz / 16QAM

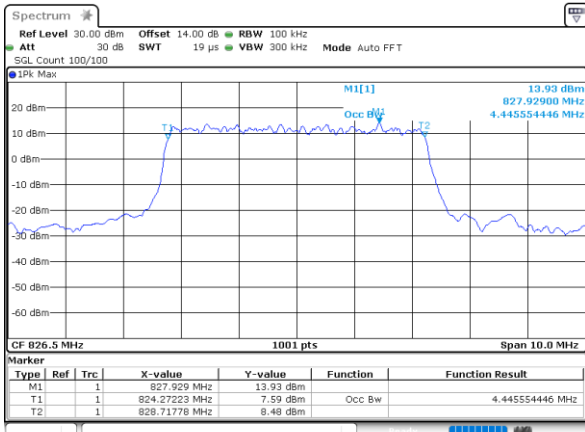


Date: 31.MAR.2022 11:35:28



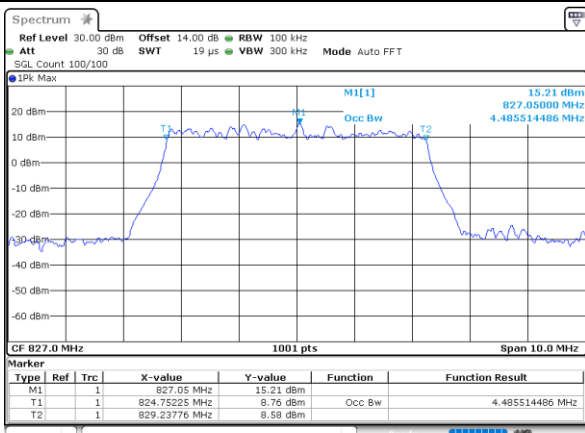
LTE Band 18

Lowest Channel / 5MHz / 64QAM



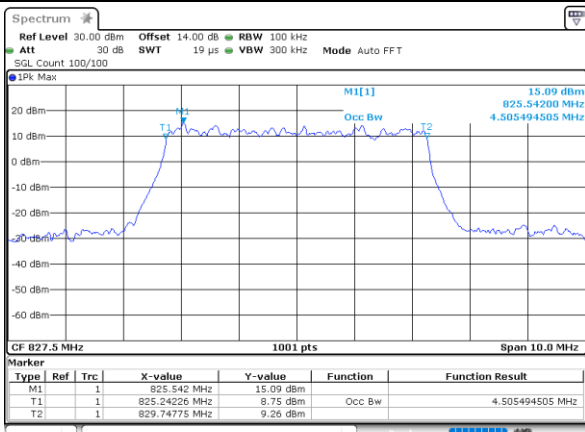
Date: 31.MAR.2022 10:57:49

Middle Channel / 5MHz / 64QAM



Date: 31.MAR.2022 11:23:53

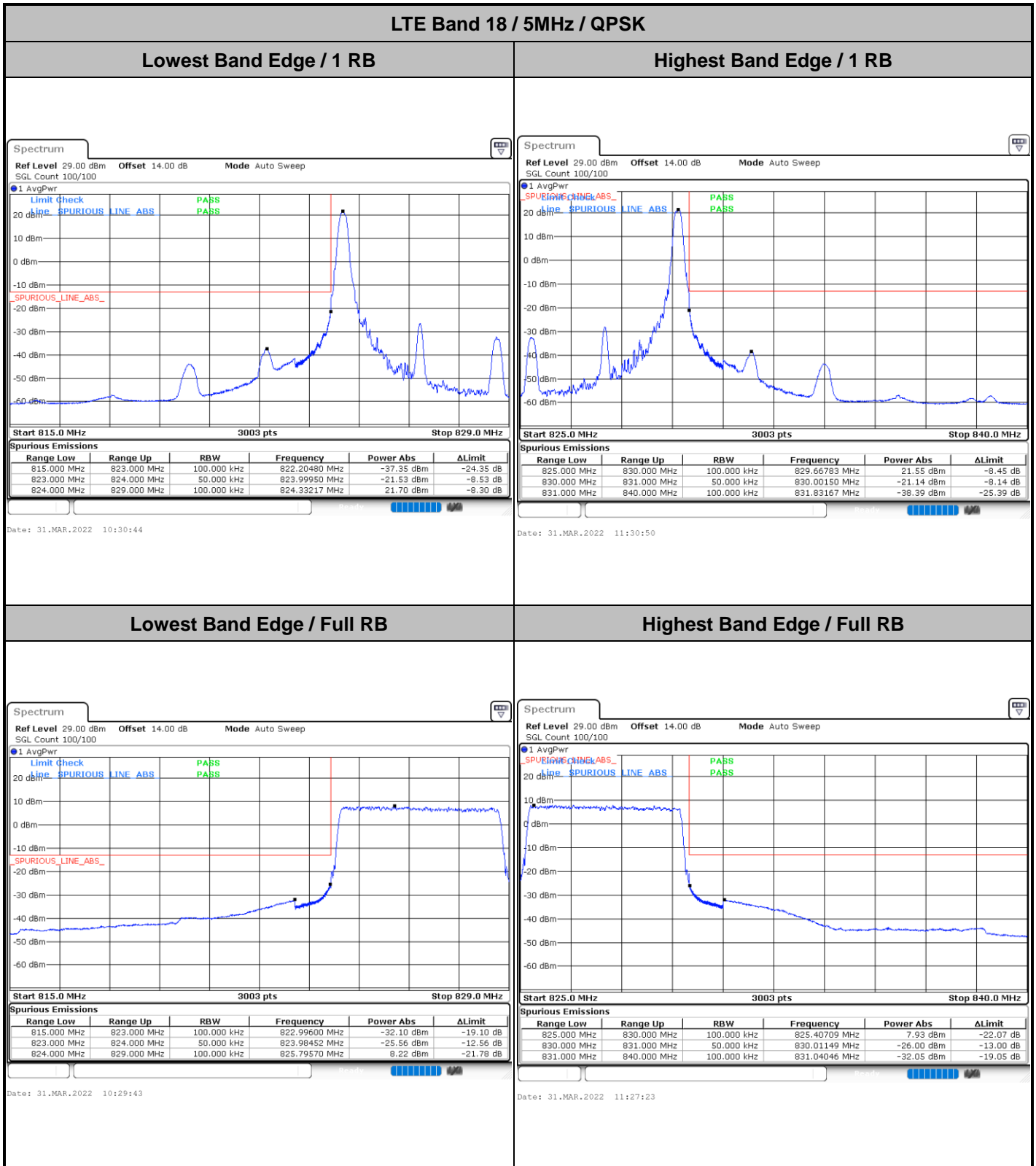
Highest Channel / 5MHz / 64QAM



Date: 31.MAR.2022 11:46:19



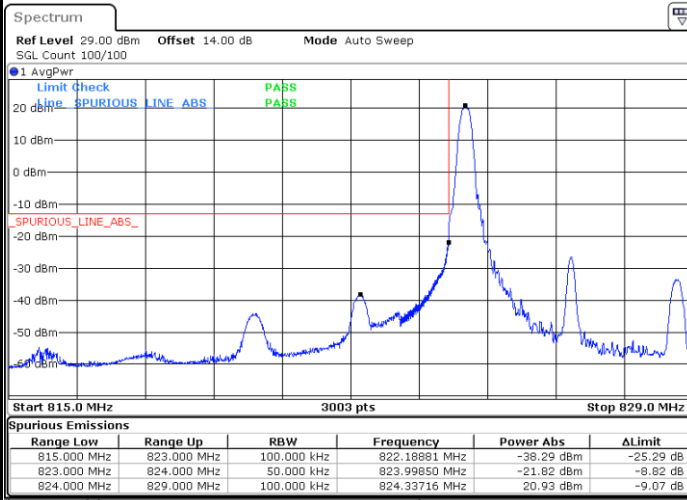
Conducted Band Edge





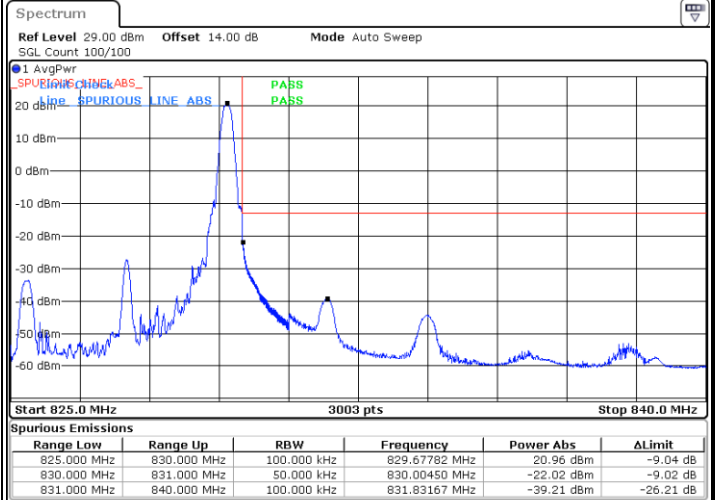
LTE Band 18 / 5MHz / 16QAM

Lowest Band Edge / 1RB



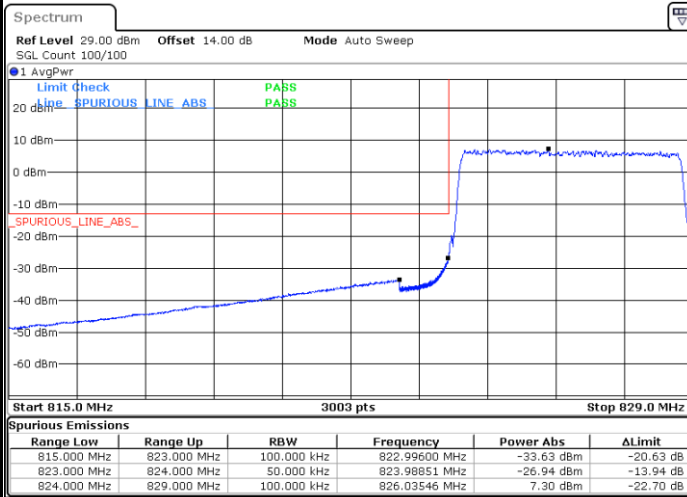
Date: 31.MAR.2022 10:52:45

Highest Band Edge / 1 RB



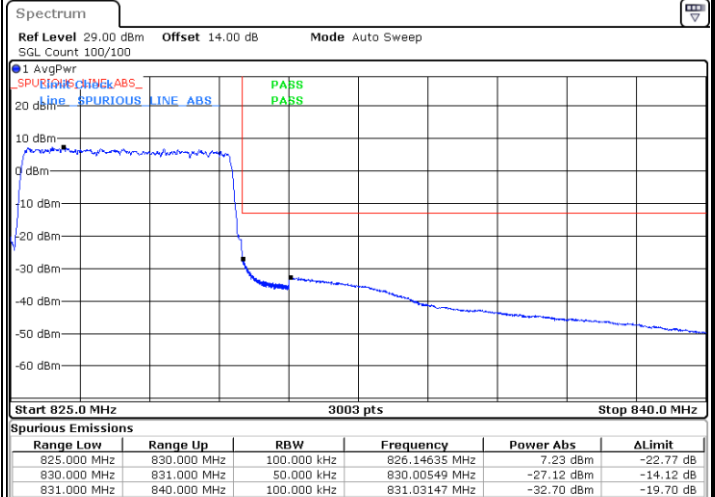
Date: 31.MAR.2022 11:34:04

Lowest Band Edge / Full RB



Date: 31.MAR.2022 10:57:02

Highest Band Edge / Full RB

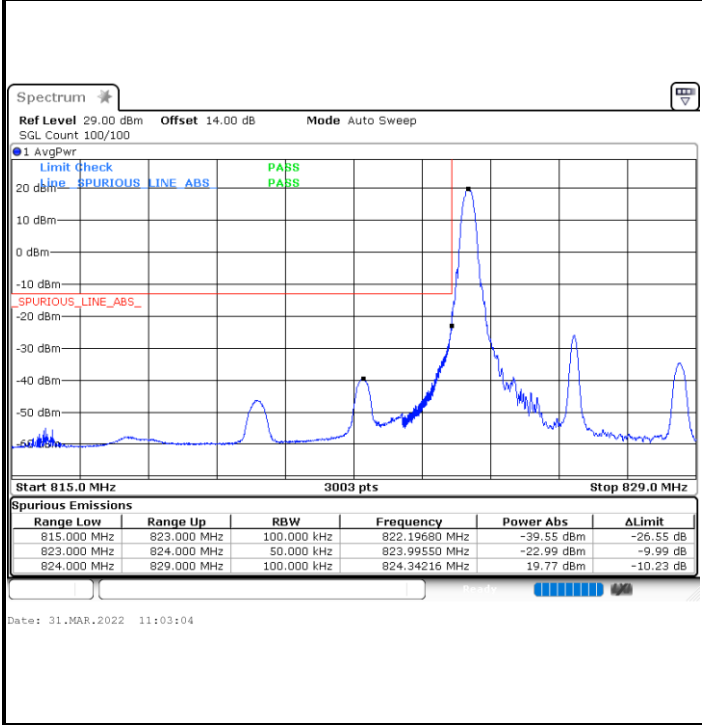


Date: 31.MAR.2022 11:36:51

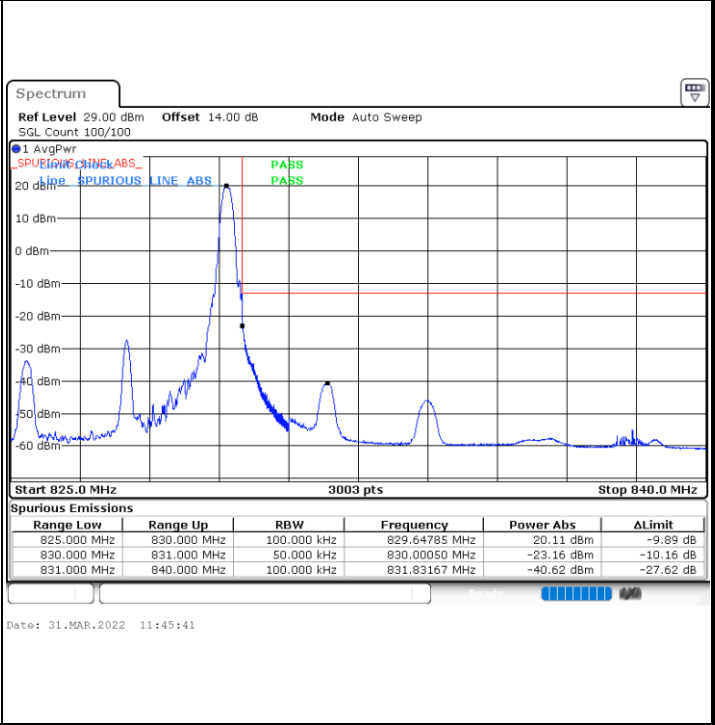


LTE Band 18 / 5MHz / 64QAM

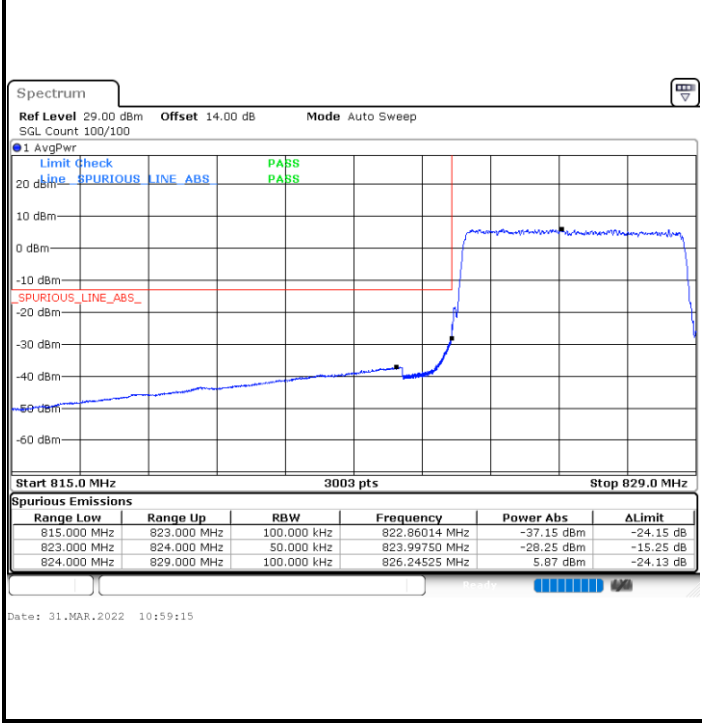
Lowest Band Edge / 1RB



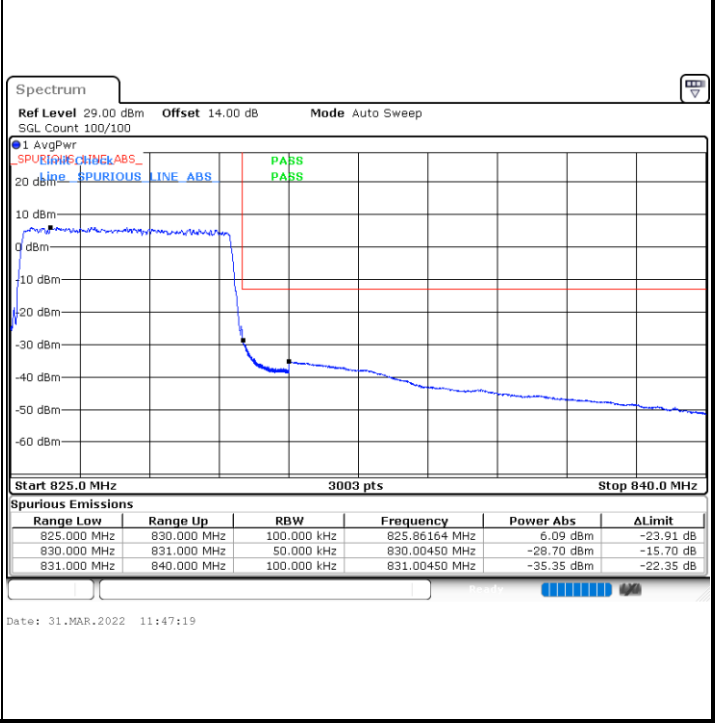
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

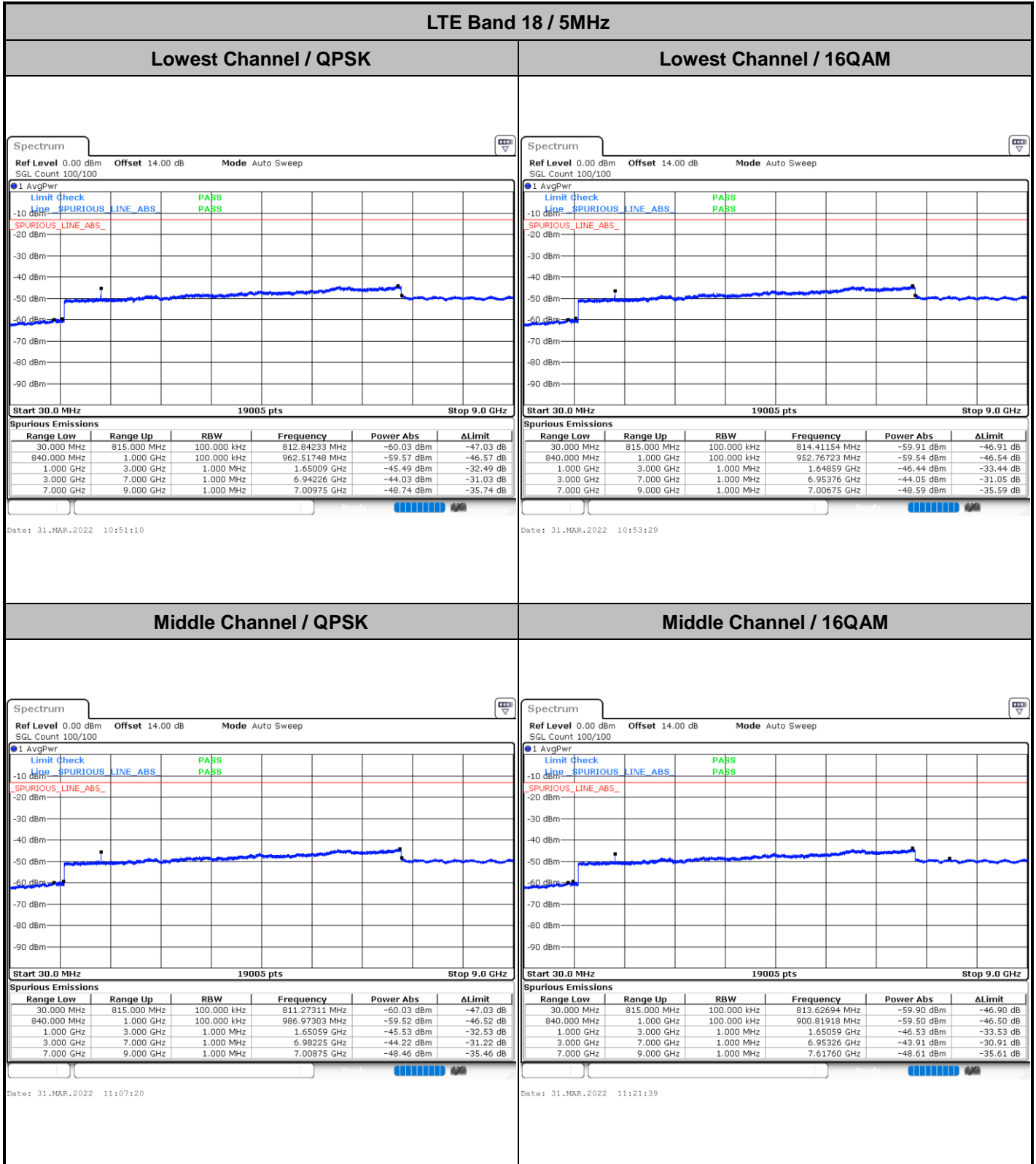


Highest Band Edge / Full RB





Conducted Spurious Emission

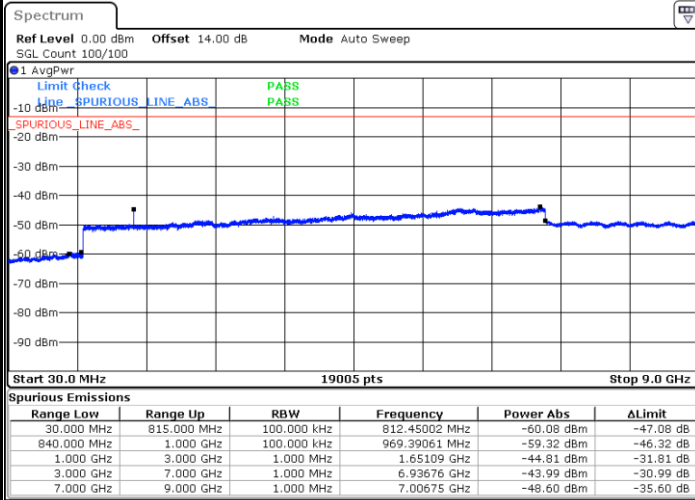




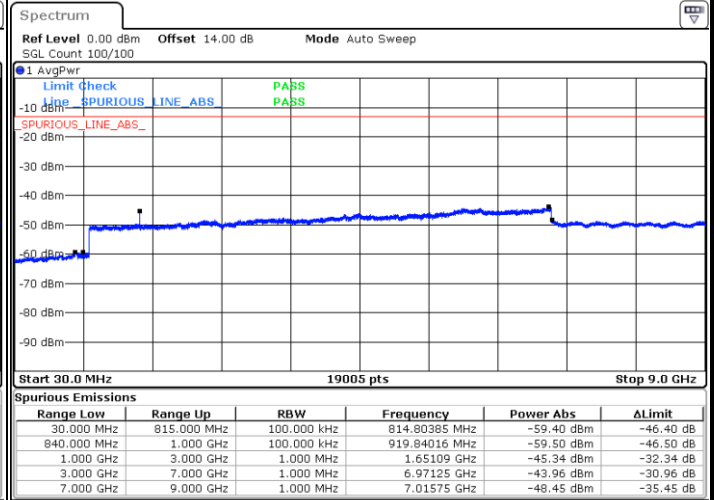
LTE Band 18 / 5MHz

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 31.MAR.2022 11:28:56



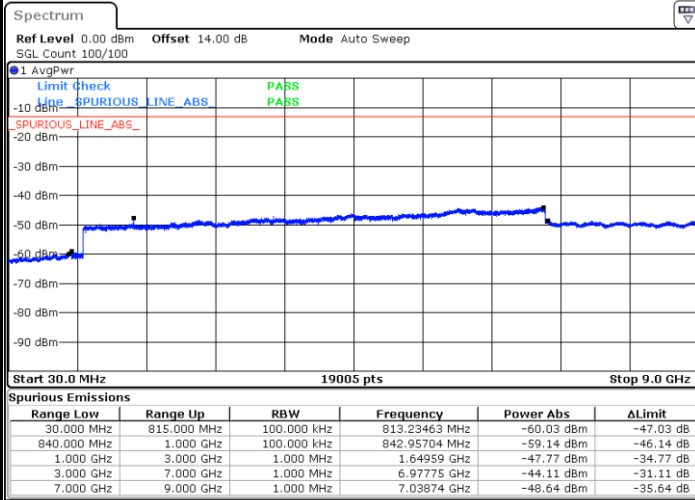
Date: 31.MAR.2022 11:43:17



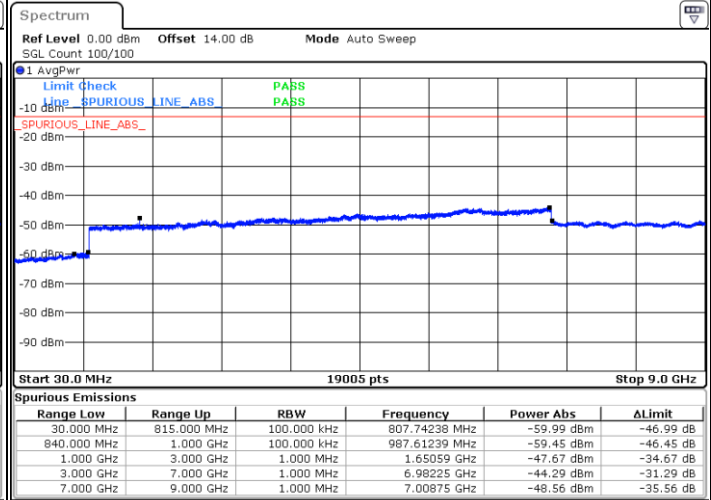
LTE Band 18 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

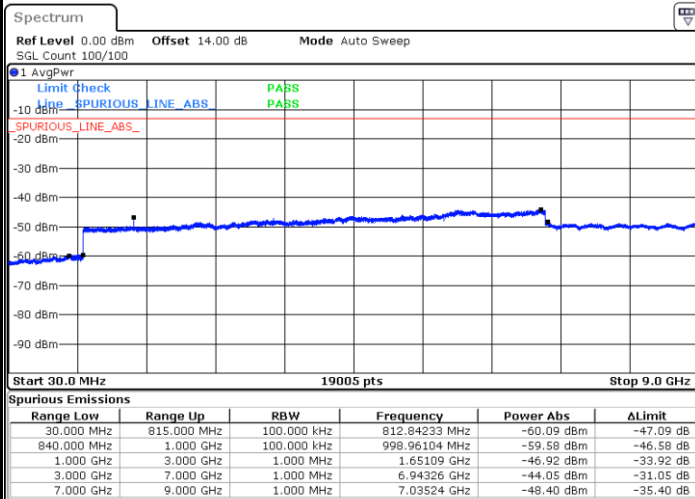


Date: 31.MAR.2022 11:01:44



Date: 31.MAR.2022 11:22:57

Highest Channel / 64QAM



Date: 31.MAR.2022 11:44:40



Frequency Stability

Test Conditions		LTE Band 18 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 5MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0058	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0064	
-30	Normal Voltage	0.0070	
20	Maximum Voltage	0.0057	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0060	

Note: Normal Voltage =7.78 V. ; Battery End Point (BEP) =7.2 V. ; Maximum Voltage =8.96 V.



LTE Band 19

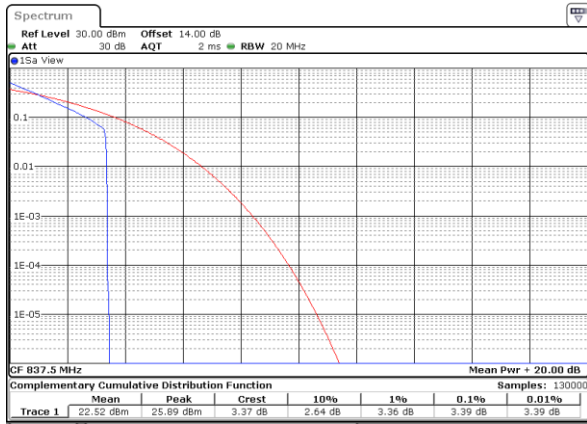
Peak-to-Average Ratio

Mode	LTE Band 19 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.39	4.72	4.17	5.68	PASS
Middle CH					
Highest CH					
Mode	LTE Band 19 / 15MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.84	6.23	-	-	PASS
Middle CH			-	-	
Highest CH			-	-	



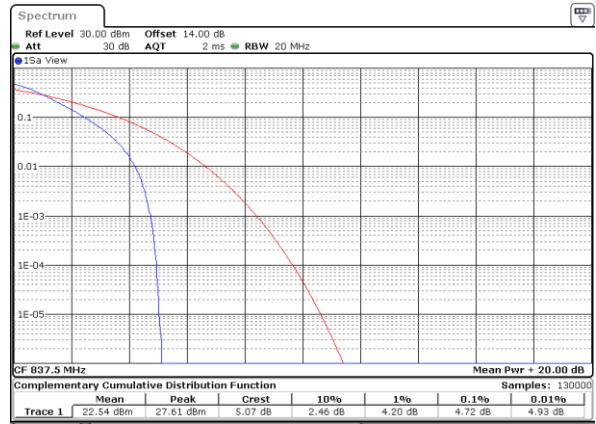
LTE Band 19 / 15MHz / QPSK

Lowest Channel / 1RB



Date: 19.APR.2022 16:44:38

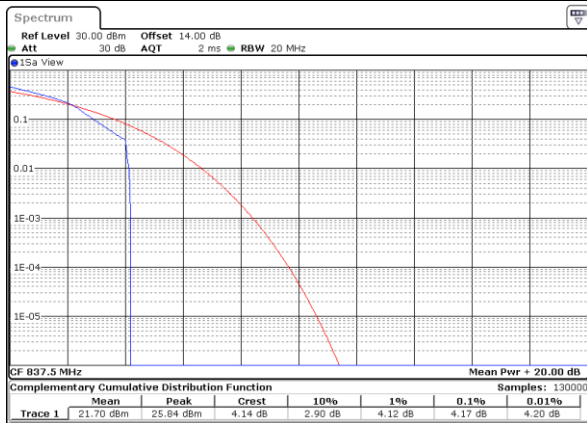
Lowest Channel / Full RB



Date: 19.APR.2022 16:40:29

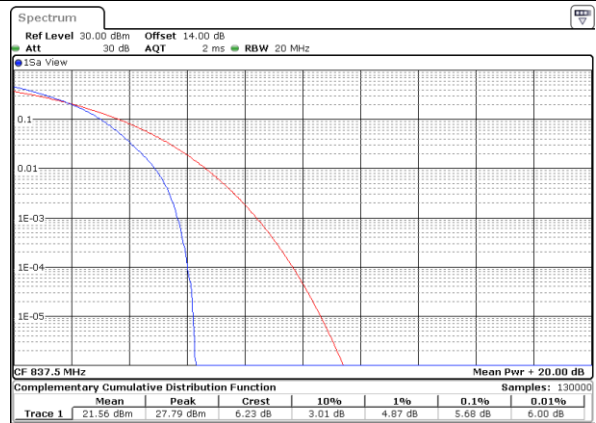
LTE Band 19 / 15MHz / 16QAM

Lowest Channel / 1RB



Date: 19.APR.2022 16:43:45

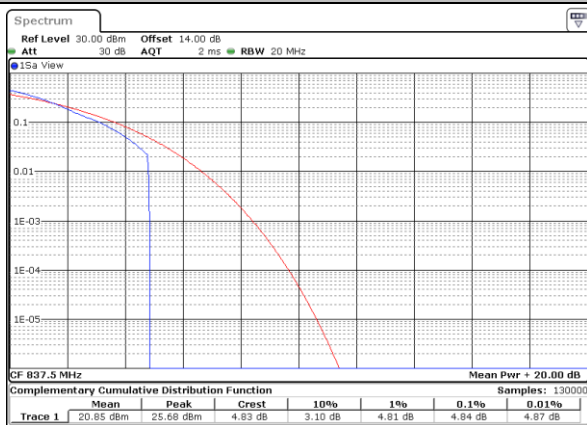
Lowest Channel / Full RB



Date: 19.APR.2022 16:41:26

LTE Band 19 / 15MHz / 64QAM

Lowest Channel / 1RB



Date: 19.APR.2022 16:43:00

Lowest Channel / Full RB



Date: 19.APR.2022 16:42:04



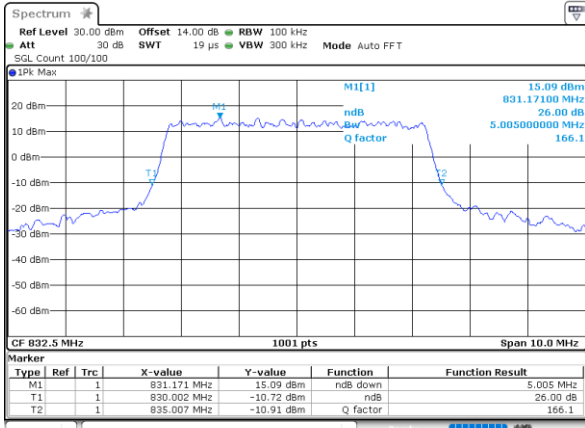
26dB Bandwidth

Mode	LTE Band 19 : 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					5.01	5.07	10.15	9.77	14.33	14.21	-	-
Middle CH					4.96	4.90	10.09	9.99			-	-
Highest CH					5.08	5.10	9.93	10.03			-	-
Mode	LTE Band 19 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH				-	4.92	-	9.91	-	14.54	-	-	-
Middle CH				-	5.04	-	10.17	-		-	-	-
Highest CH				-	5.01	-	9.97	-		-	-	-



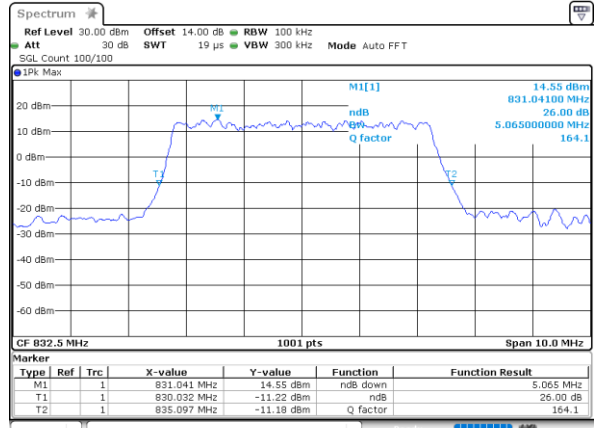
LTE Band 19

Lowest Channel / 5MHz / QPSK



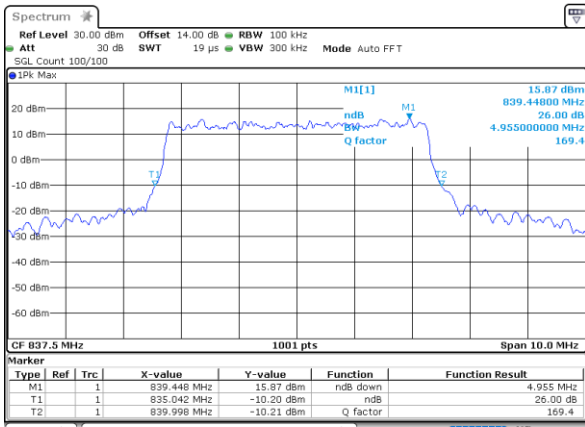
Date: 19_APR.2022 10:29:06

Lowest Channel / 5MHz / 16QAM



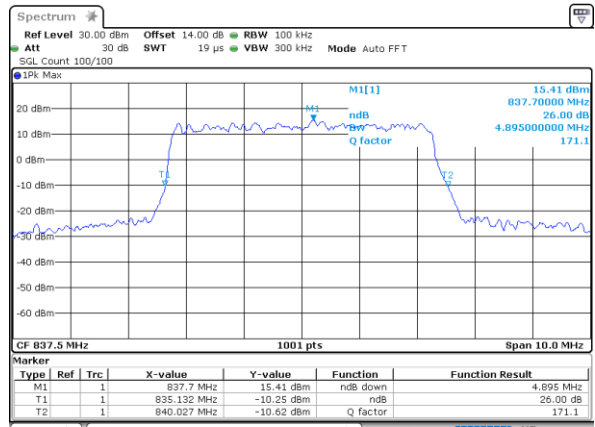
Date: 19_APR.2022 12:10:10

Middle Channel / 5MHz / QPSK



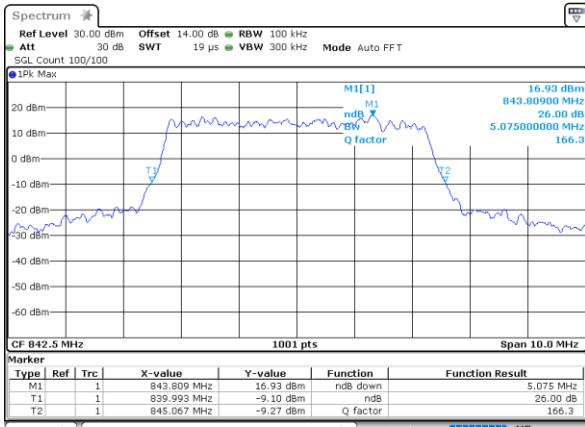
Date: 19_APR.2022 12:04:45

Middle Channel / 5MHz / 16QAM



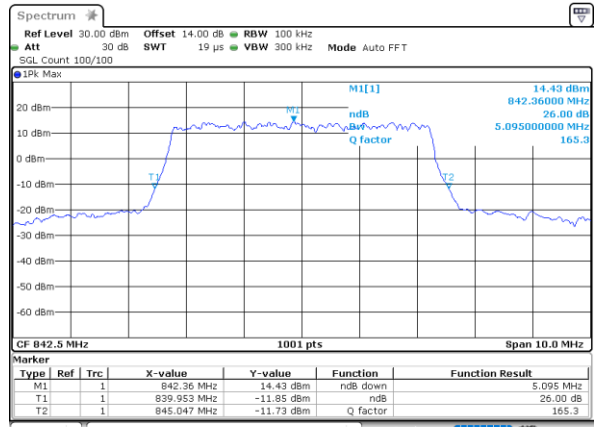
Date: 19_APR.2022 12:10:33

Highest Channel / 5MHz / QPSK



Date: 19_APR.2022 12:17:25

Highest Channel / 5MHz / 16QAM

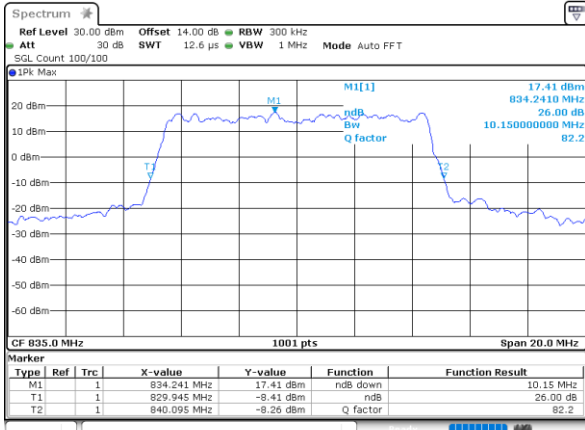


Date: 19_APR.2022 12:16:34



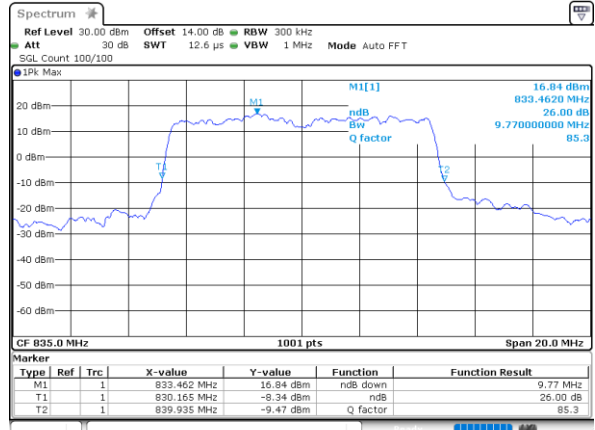
LTE Band 19

Lowest Channel / 10MHz / QPSK



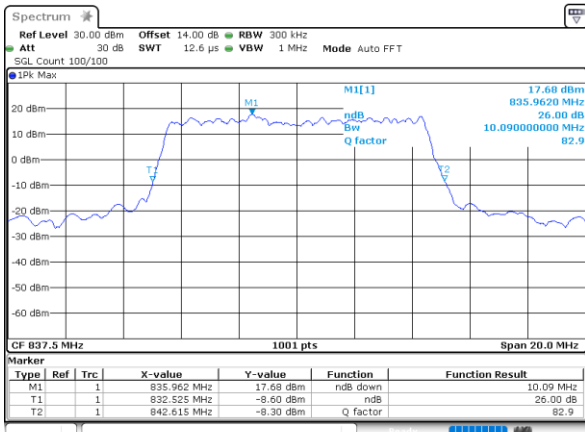
Date: 19_APR.2022 12:19:20

Lowest Channel / 10MHz / 16QAM



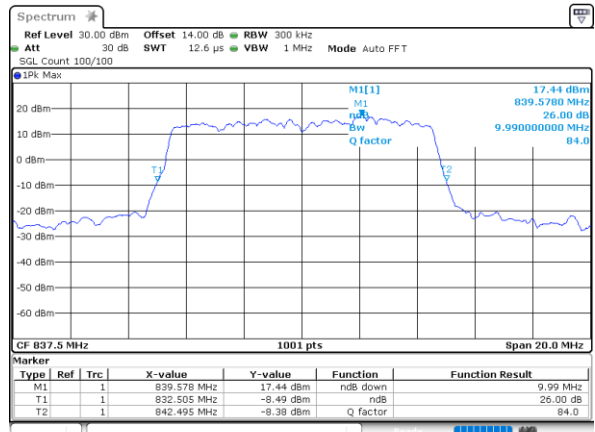
Date: 19_APR.2022 12:15:15

Middle Channel / 10MHz / QPSK



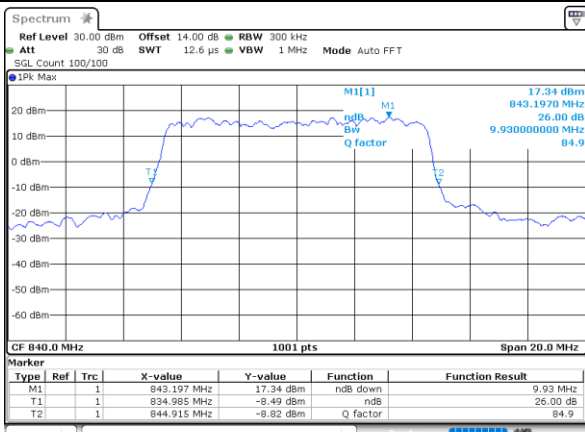
Date: 19_APR.2022 15:18:04

Middle Channel / 10MHz / 16QAM



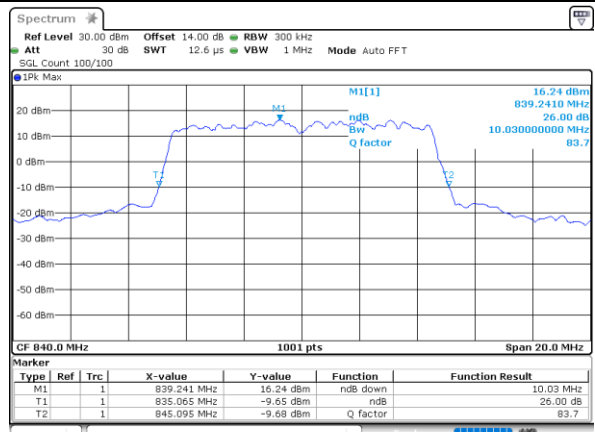
Date: 19_APR.2022 15:17:00

Highest Channel / 10MHz / QPSK



Date: 19_APR.2022 16:11:20

Highest Channel / 10MHz / 16QAM

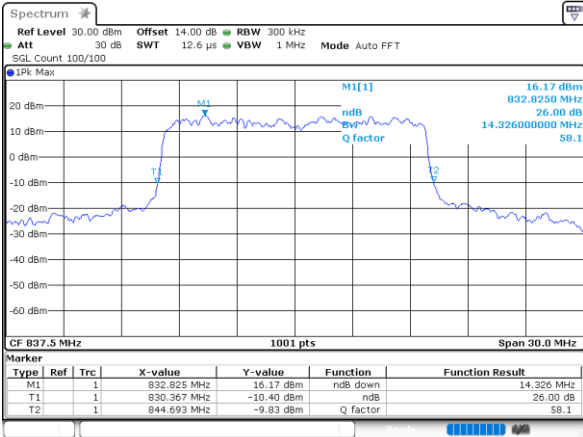


Date: 19_APR.2022 16:12:51



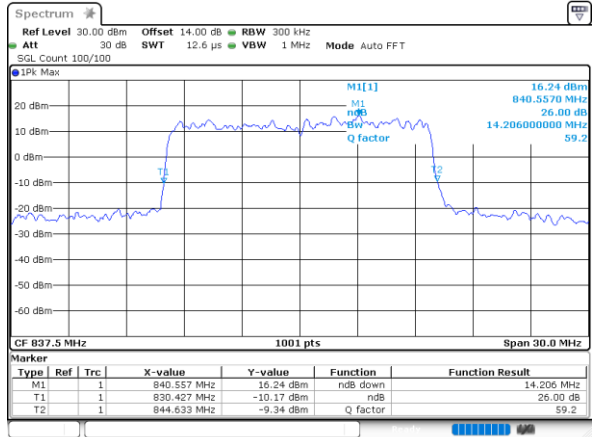
LTE Band 19

Lowest Channel / 15MHz / QPSK



Date: 19_APR_2022 16:25:10

Lowest Channel / 15MHz / 16QAM

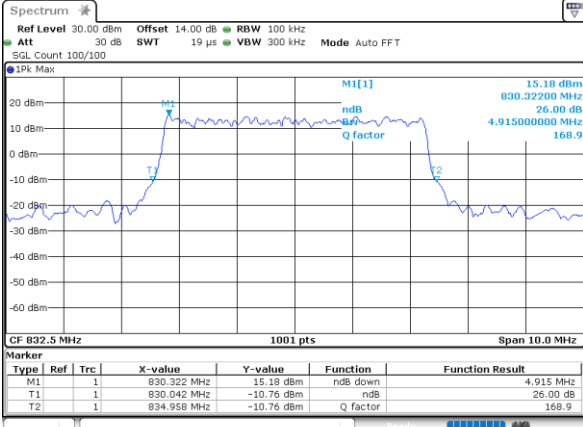


Date: 19_APR_2022 16:23:18



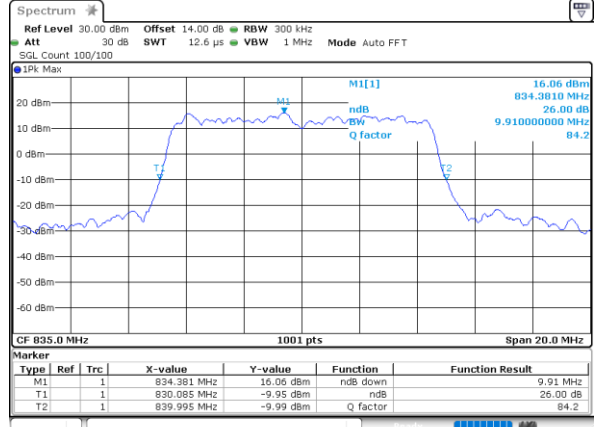
LTE Band 19

Lowest Channel / 5MHz / 64QAM



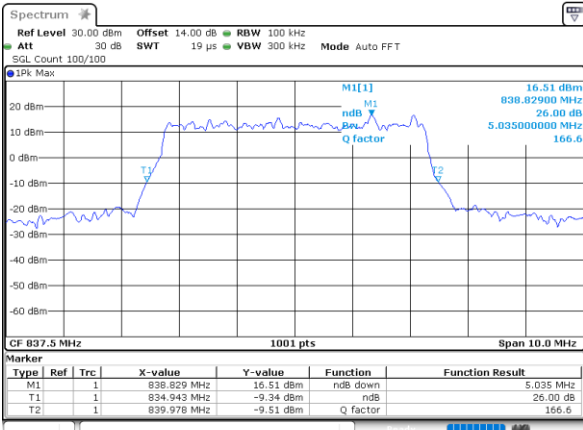
Date: 19_APR.2022 12:01:24

Lowest Channel / 10MHz / 64QAM



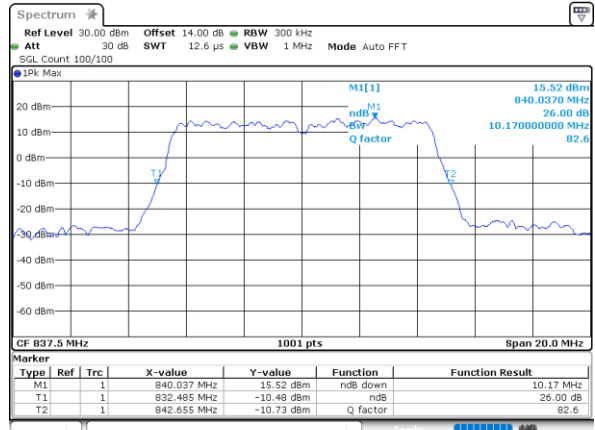
Date: 19_APR.2022 15:06:54

Middle Channel / 5MHz / 64QAM



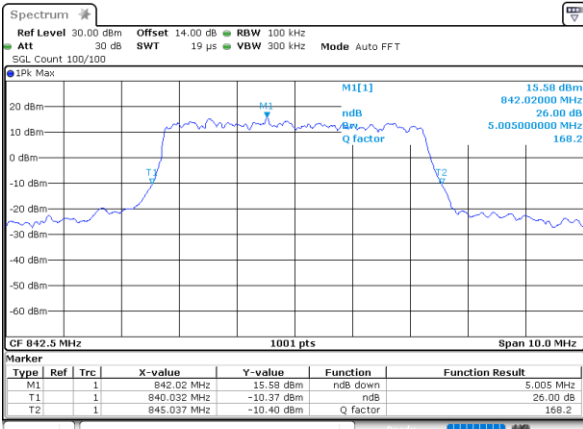
Date: 19_APR.2022 12:02:05

Middle Channel / 10MHz / 64QAM



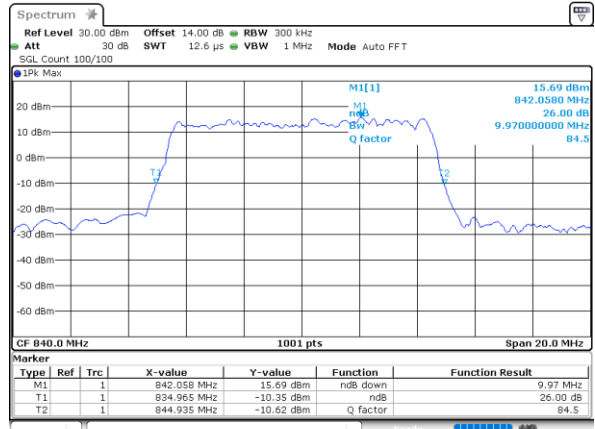
Date: 19_APR.2022 15:11:58

Highest Channel / 5MHz / 64QAM



Date: 19_APR.2022 12:15:06

Highest Channel / 10MHz / 64QAM

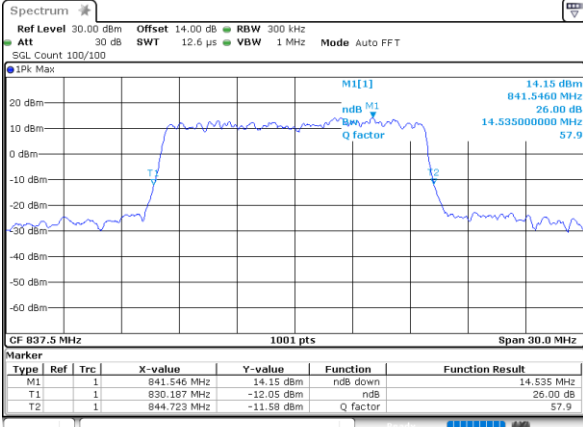


Date: 19_APR.2022 16:14:20



LTE Band 19

Lowest Channel / 15MHz / 64QAM



Date: 19_APR_2022 16:21:44



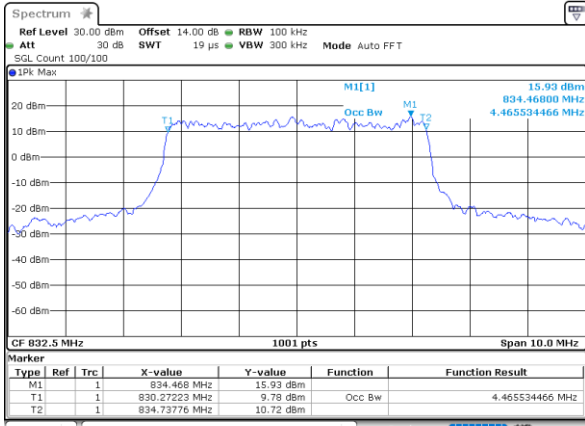
Occupied Bandwidth

Mode	LTE Band 19 : 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					4.47	4.49	9.01	9.05	13.40	13.43	-	-
Middle CH					4.49	4.50	9.01	9.07			-	-
Highest CH					4.49	4.50	9.03	9.05			-	-
Mode	LTE Band 19 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH				-	4.50	-	9.05	-	13.46		-	-
Middle CH				-	4.54	-	9.01	-			-	-
Highest CH				-	4.52	-	9.01	-			-	-



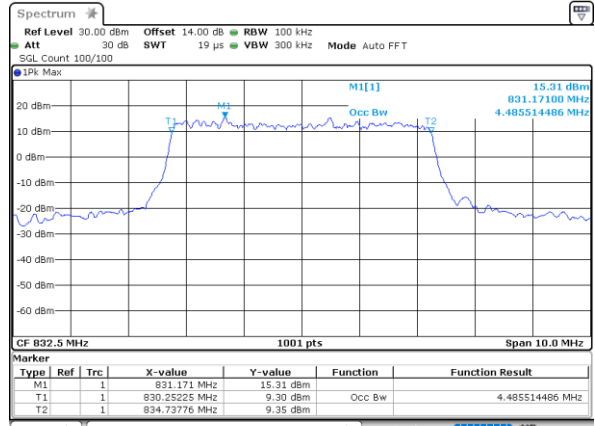
LTE Band 19

Lowest Channel / 5MHz / QPSK



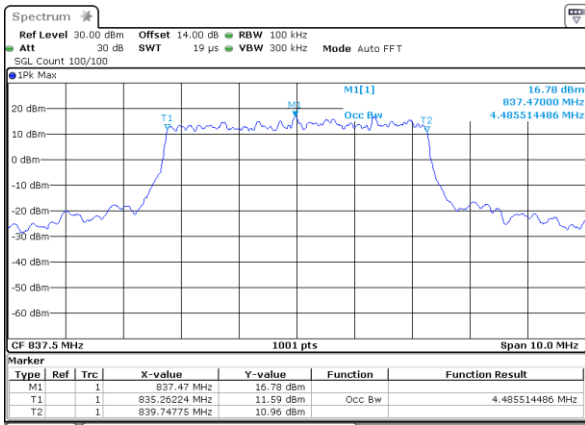
Date: 19_APR.2022 10:28:32

Lowest Channel / 5MHz / 16QAM



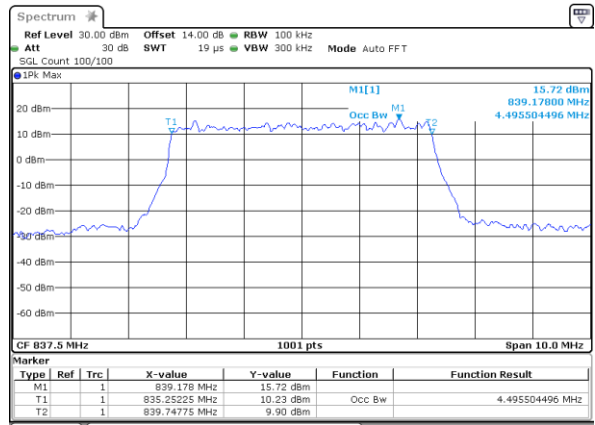
Date: 19_APR.2022 11:59:53

Middle Channel / 5MHz / QPSK



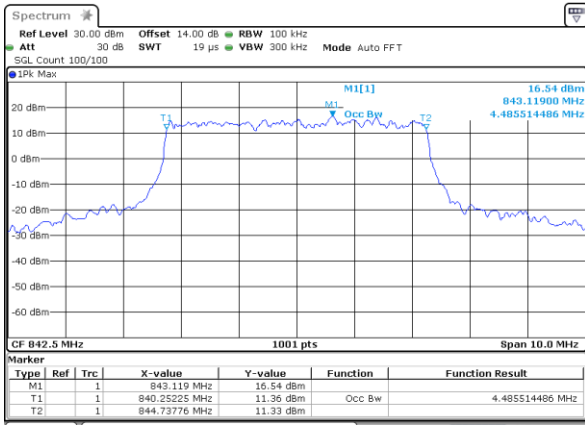
Date: 19_APR.2022 12:04:13

Middle Channel / 5MHz / 16QAM



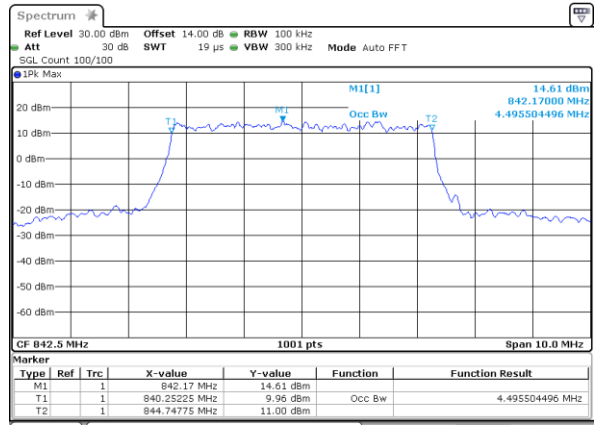
Date: 19_APR.2022 12:03:10

Highest Channel / 5MHz / QPSK



Date: 19_APR.2022 12:17:04

Highest Channel / 5MHz / 16QAM

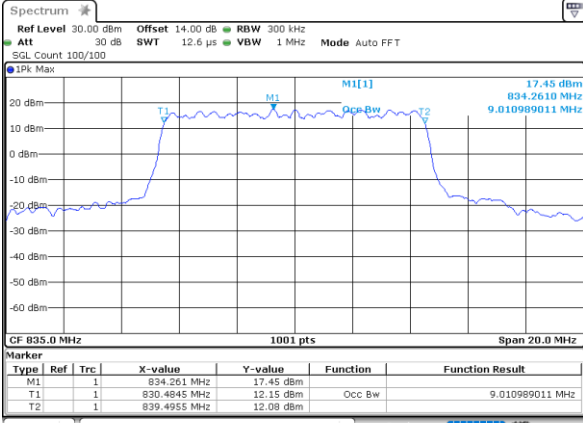


Date: 19_APR.2022 12:16:13



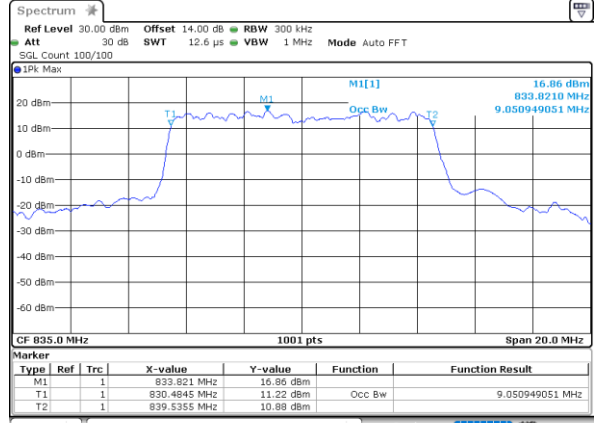
LTE Band 19

Lowest Channel / 10MHz / QPSK



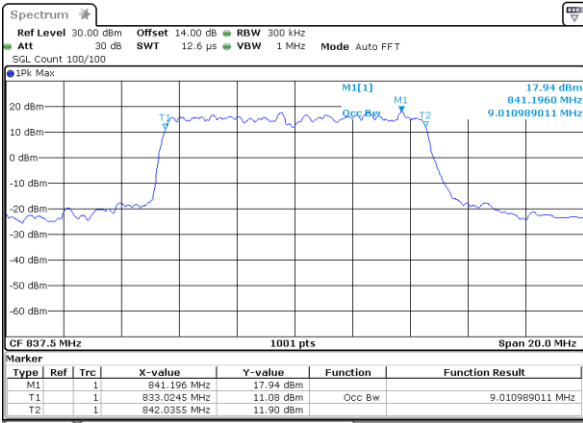
Date: 19_APR.2022 12:19:09

Lowest Channel / 10MHz / 16QAM



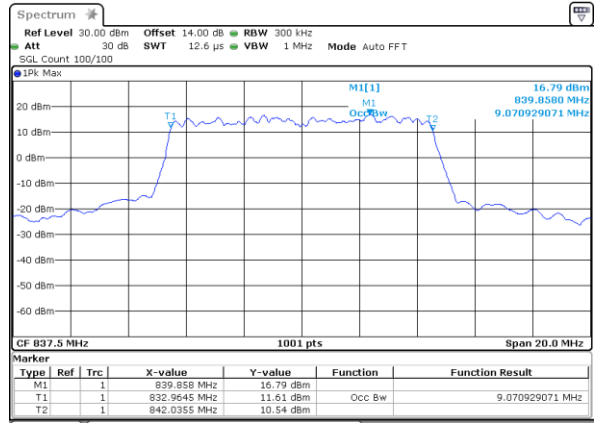
Date: 19_APR.2022 12:15:55

Middle Channel / 10MHz / QPSK



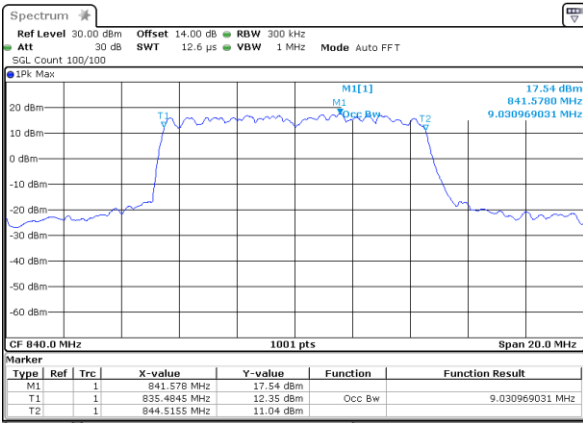
Date: 19_APR.2022 15:17:40

Middle Channel / 10MHz / 16QAM



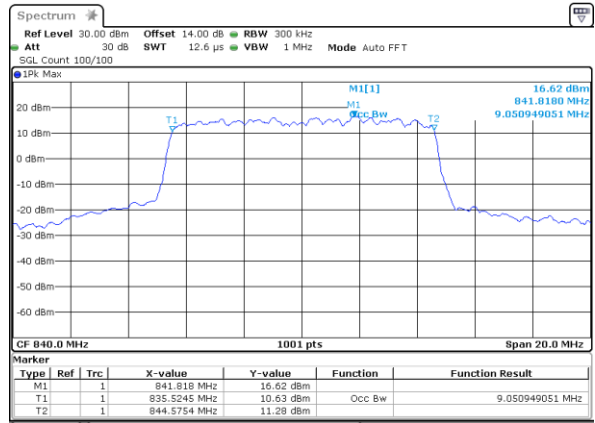
Date: 19_APR.2022 15:16:37

Highest Channel / 10MHz / QPSK



Date: 19_APR.2022 16:10:59

Highest Channel / 10MHz / 16QAM

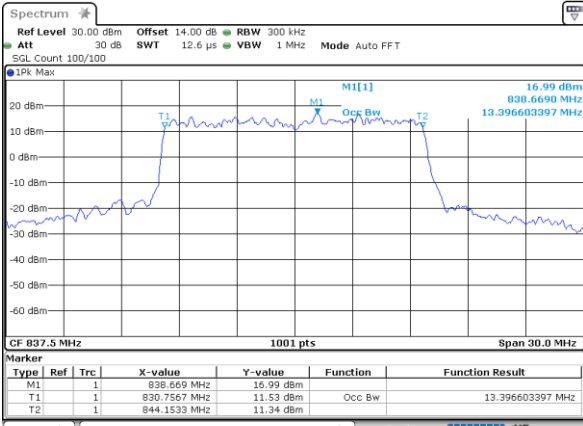


Date: 19_APR.2022 16:12:22



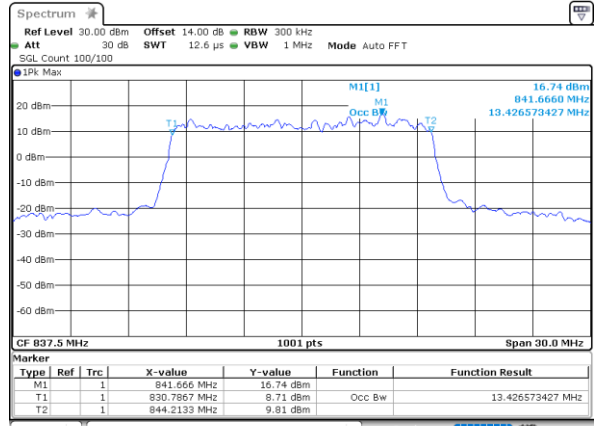
LTE Band 19

Lowest Channel / 15MHz / QPSK



Date: 19_APR.2022 16:24:51

Lowest Channel / 15MHz / 16QAM

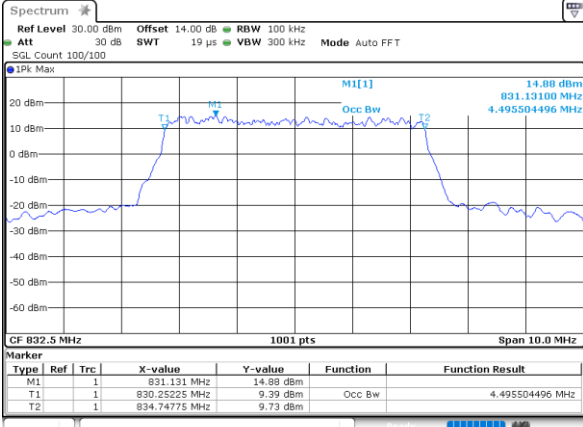


Date: 19_APR.2022 16:22:57



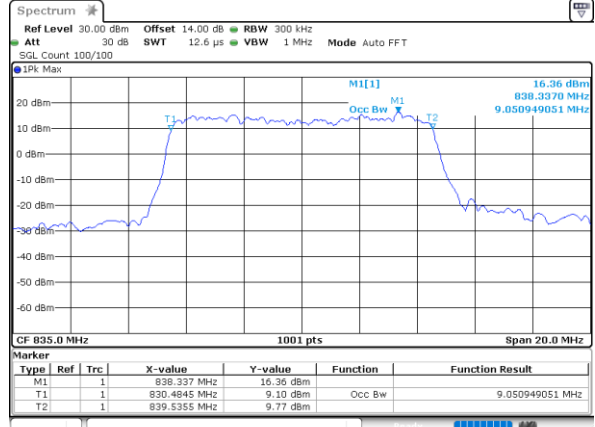
LTE Band 19

Lowest Channel / 5MHz / 64QAM



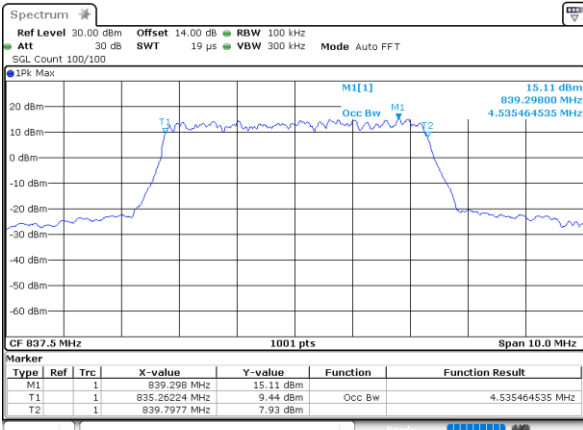
Date: 19_APR.2022 12:00:53

Lowest Channel / 10MHz / 64QAM



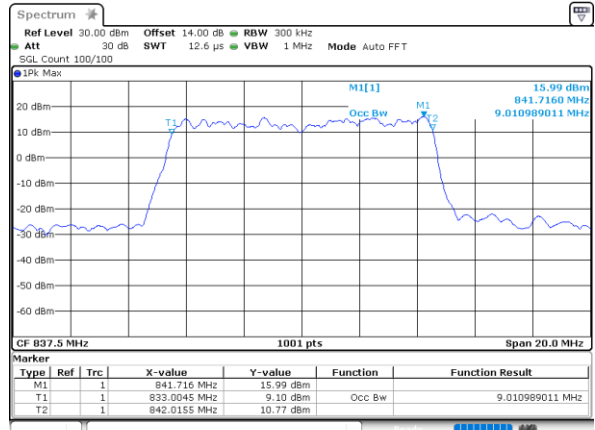
Date: 19_APR.2022 15:10:121

Middle Channel / 5MHz / 64QAM



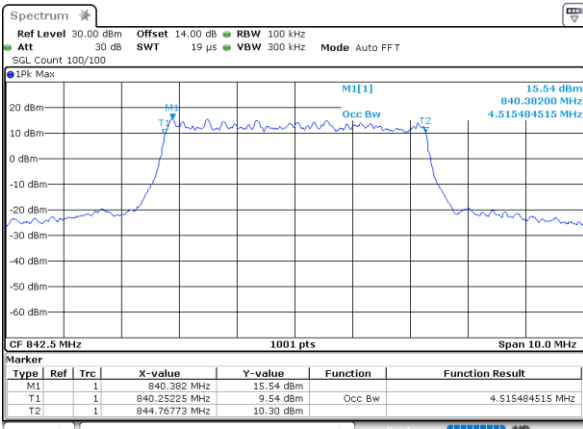
Date: 19_APR.2022 12:02:14

Middle Channel / 10MHz / 64QAM



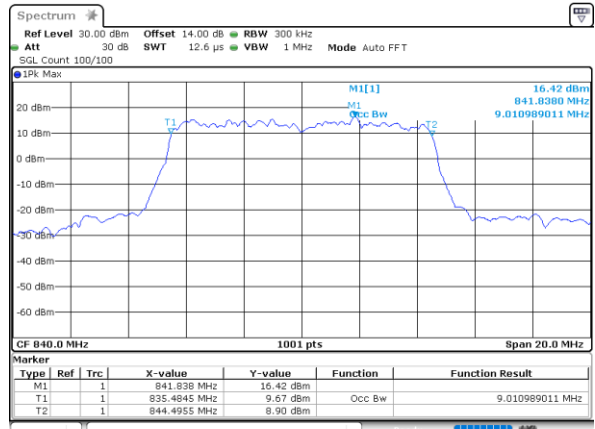
Date: 19_APR.2022 15:15:533

Highest Channel / 5MHz / 64QAM



Date: 19_APR.2022 12:14:43

Highest Channel / 10MHz / 64QAM

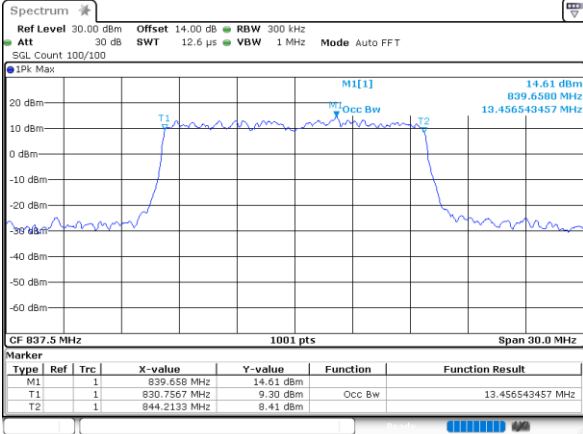


Date: 19_APR.2022 16:11:551



LTE Band 19

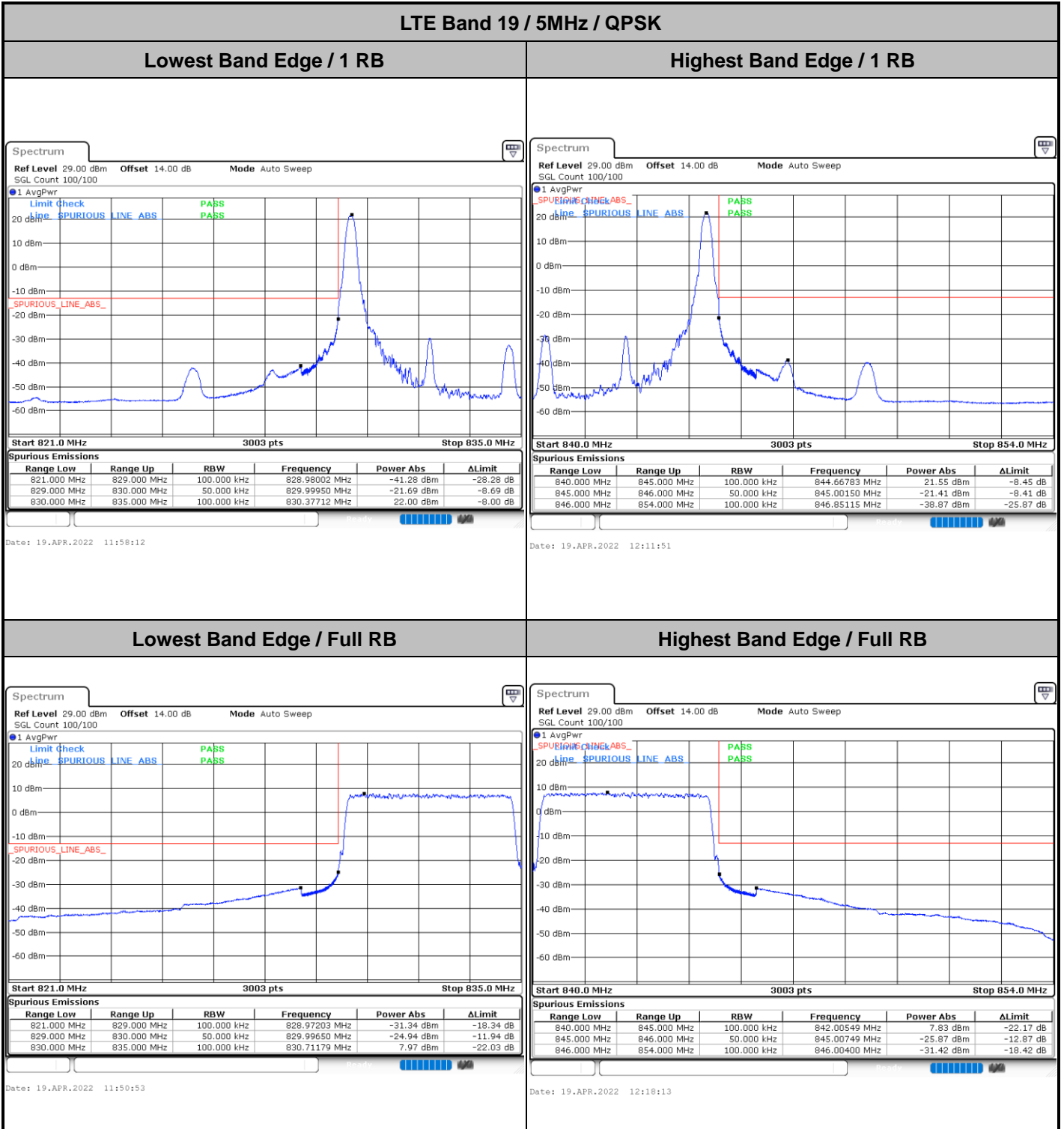
Lowest Channel / 15MHz / 64QAM



Date: 19_APR_2022 16:21:25



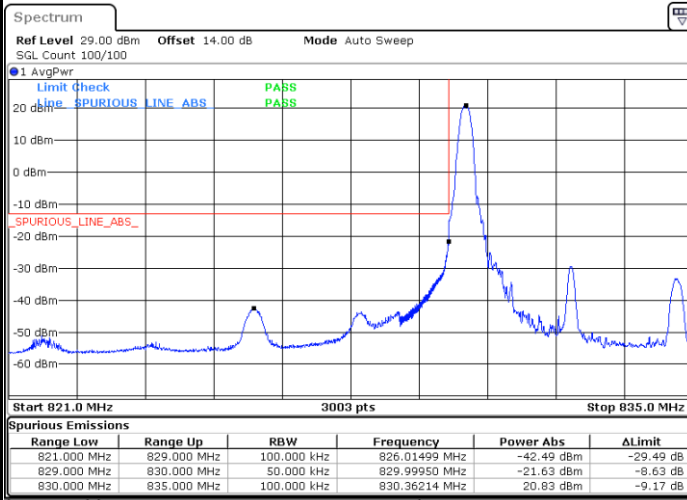
Conducted Band Edge





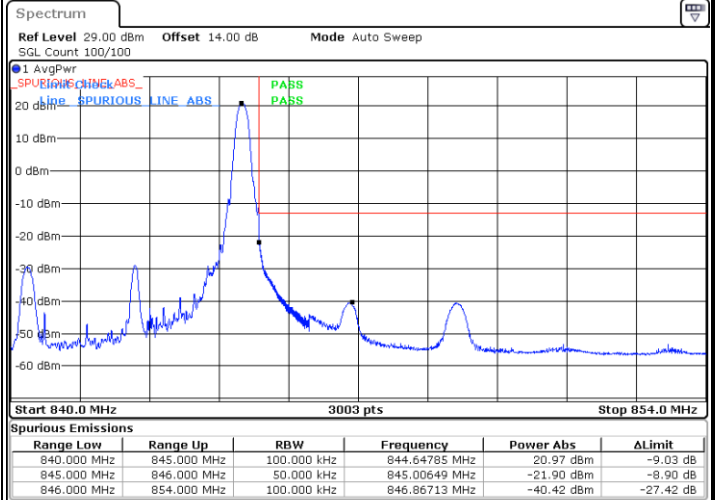
LTE Band 19 / 5MHz / 16QAM

Lowest Band Edge / 1RB



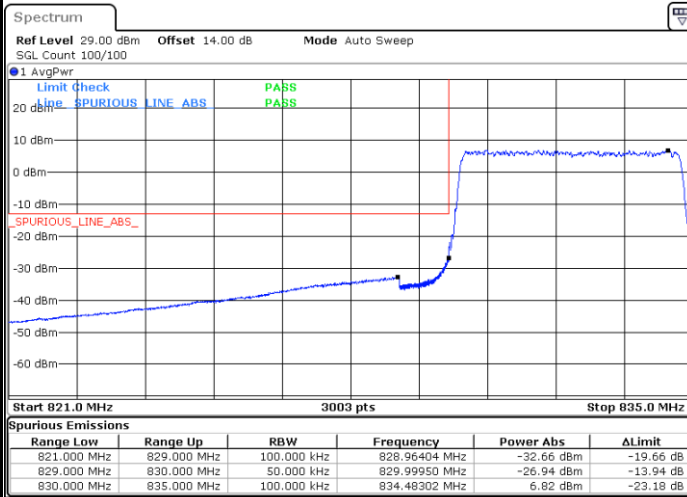
Date: 19.APR.2022 11:56:06

Highest Band Edge / 1 RB



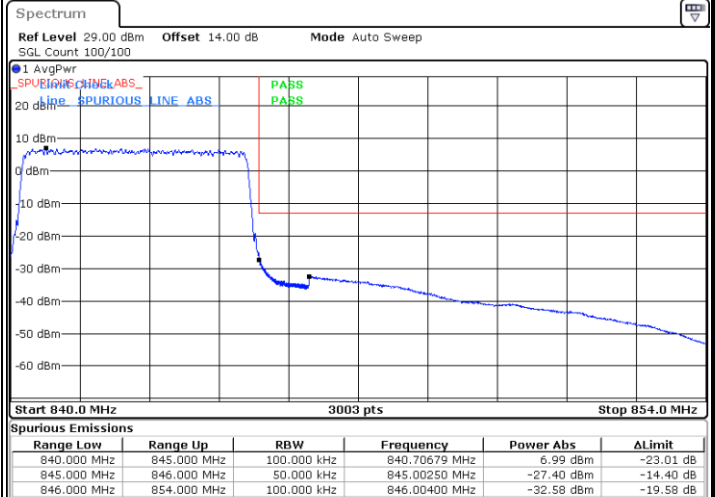
Date: 19.APR.2022 12:12:41

Lowest Band Edge / Full RB



Date: 19.APR.2022 11:52:11

Highest Band Edge / Full RB

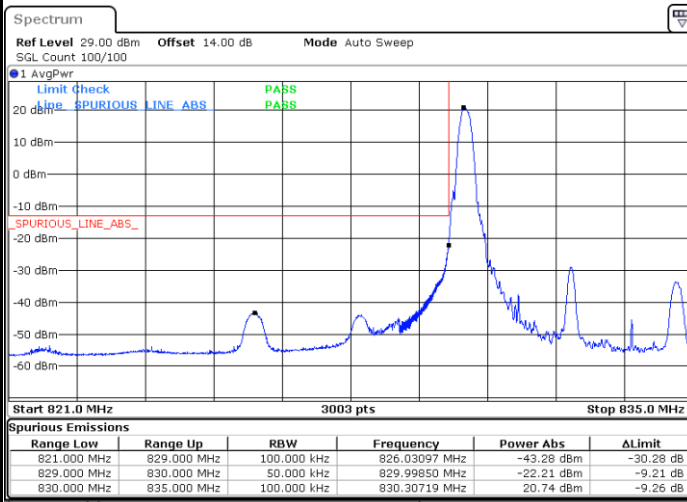


Date: 19.APR.2022 12:15:58



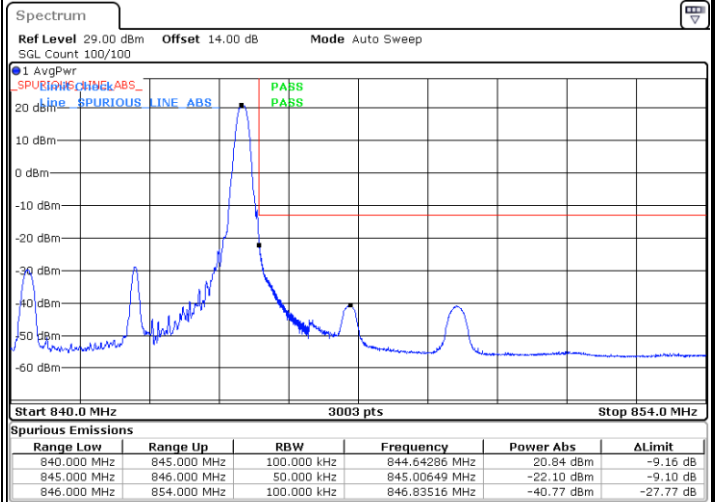
LTE Band 19 / 5MHz / 64QAM

Lowest Band Edge / 1RB



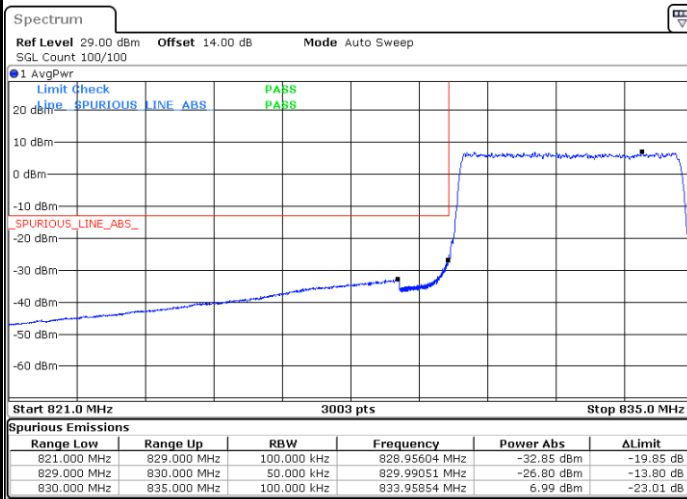
Date: 19.APR.2022 11:55:15

Highest Band Edge / 1 RB



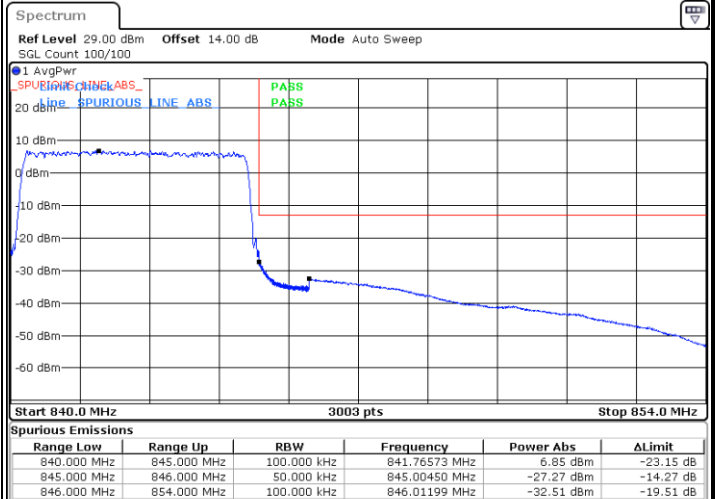
Date: 19.APR.2022 12:13:29

Lowest Band Edge / Full RB



Date: 19.APR.2022 11:52:57

Highest Band Edge / Full RB



Date: 19.APR.2022 12:14:23