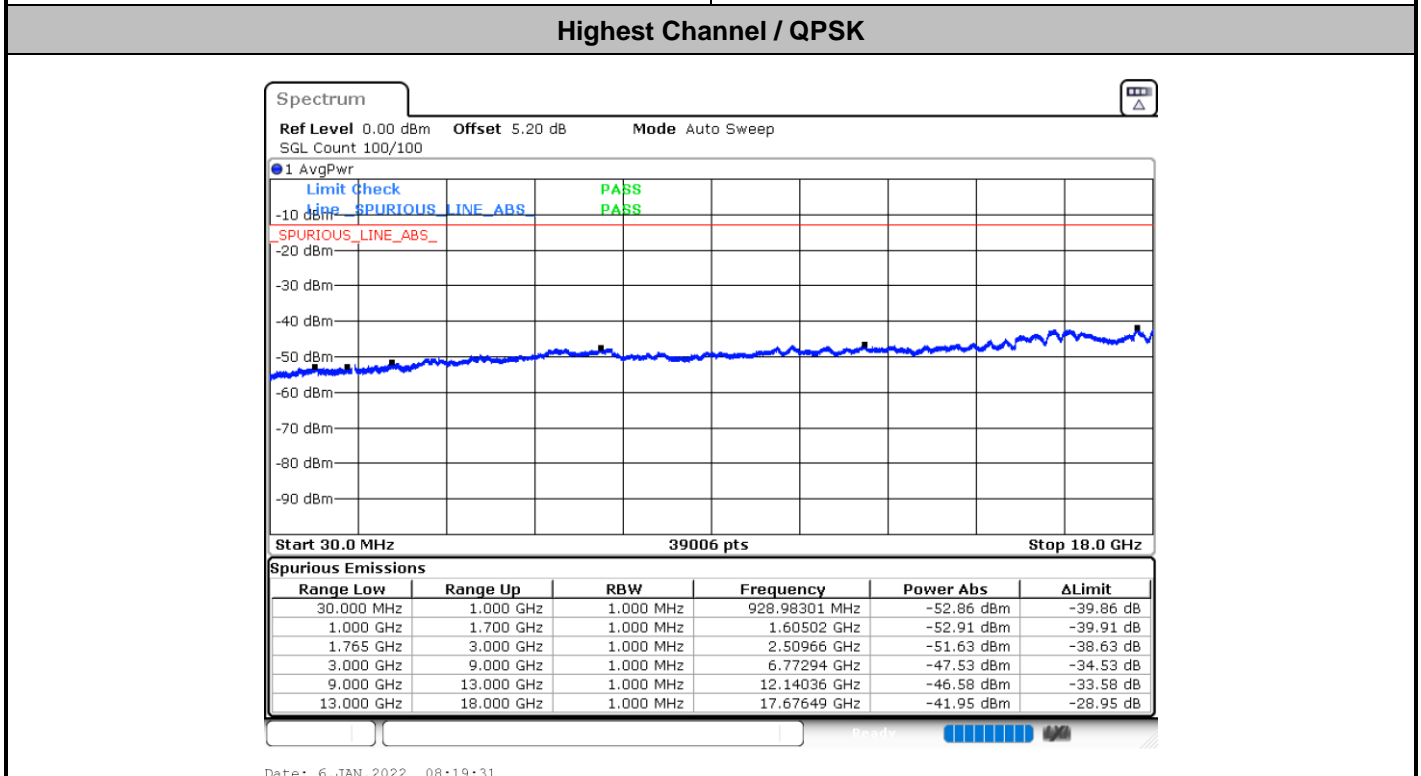
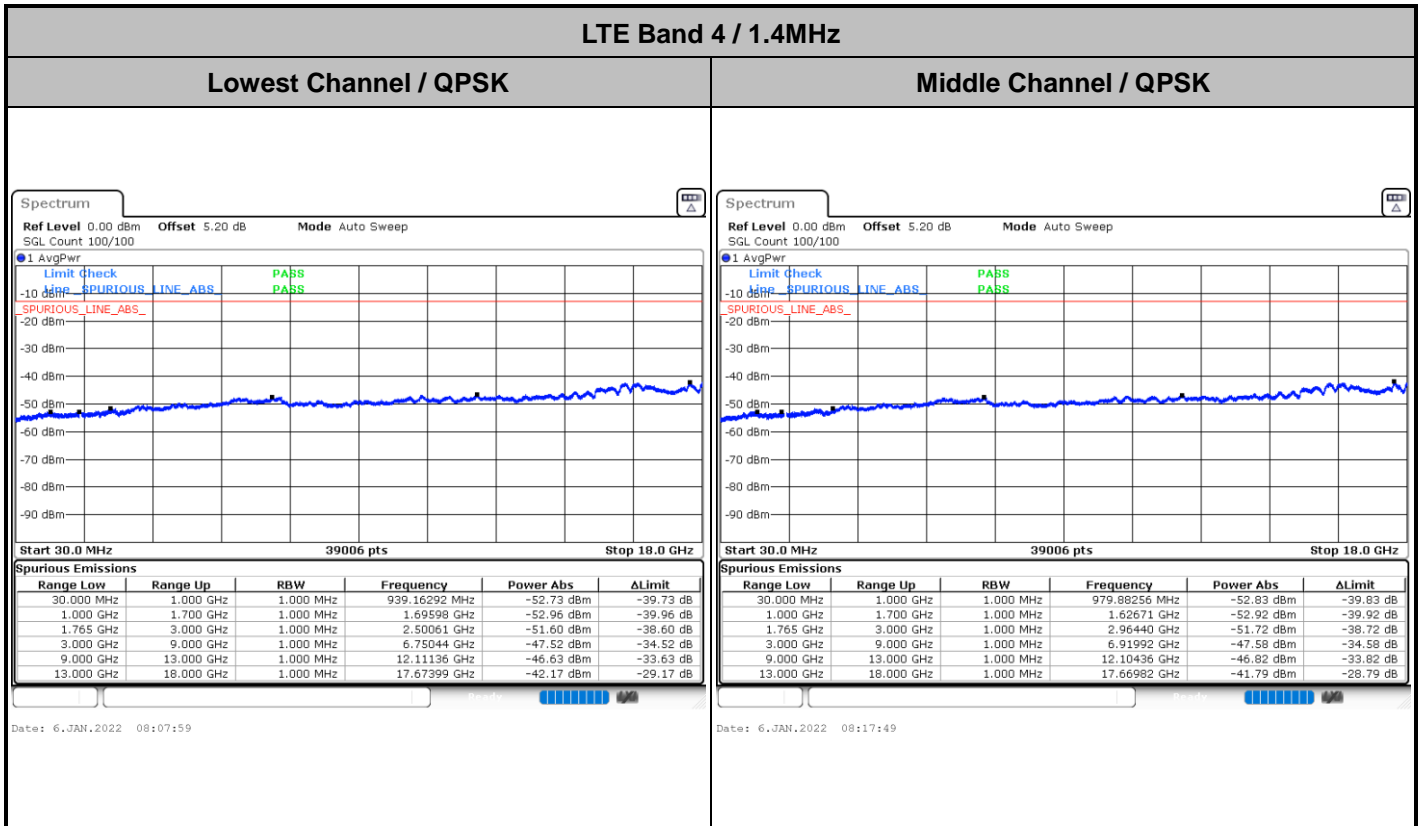




Conducted Spurious Emission

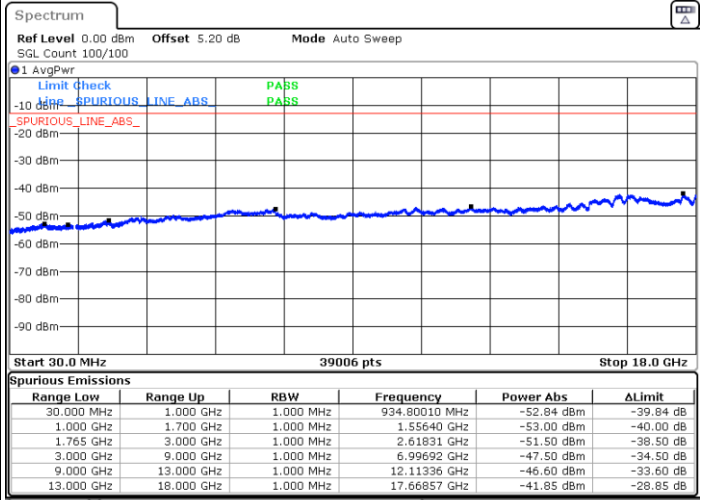
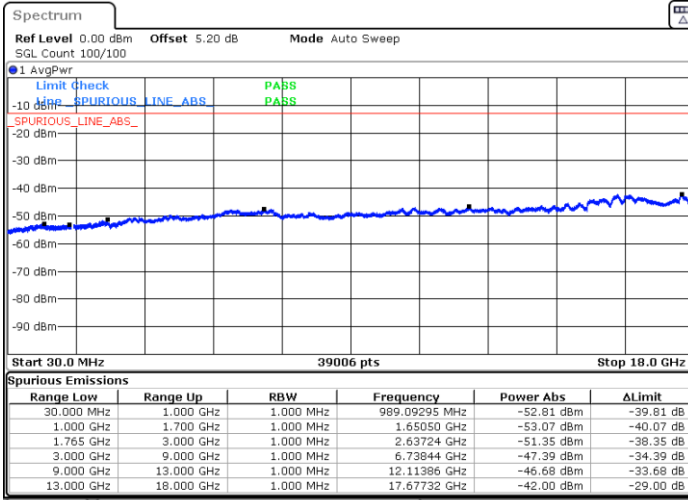




LTE Band 4 / 3MHz

Lowest Channel / QPSK

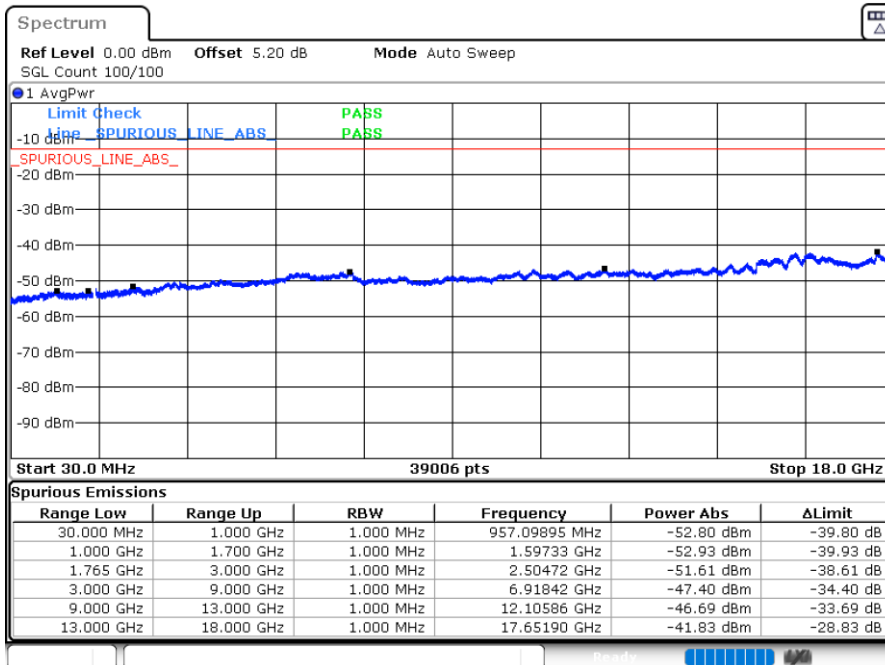
Middle Channel / QPSK



Date: 6.JAN.2022 08:29:31

Date: 6.JAN.2022 08:39:20

Highest Channel / QPSK



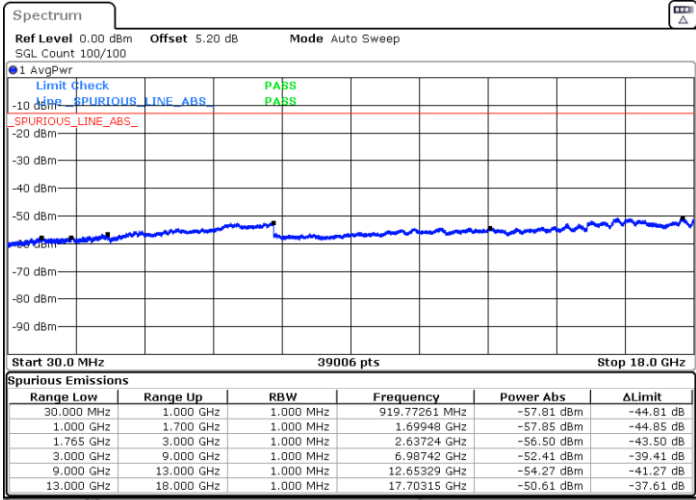
Date: 6.JAN.2022 08:41:03



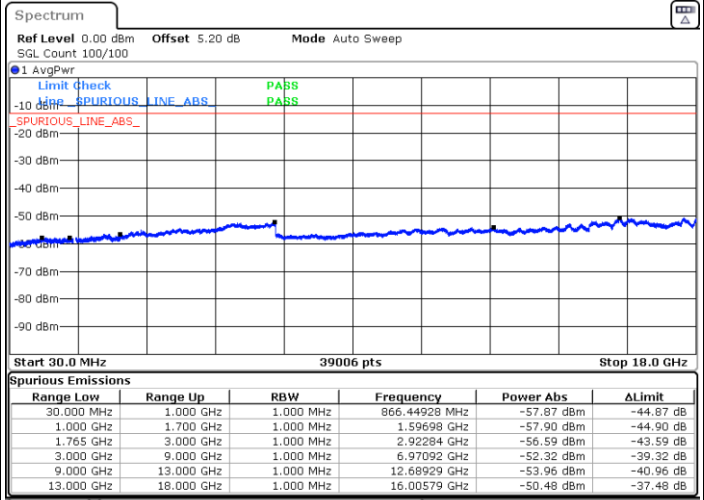
LTE Band 4 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

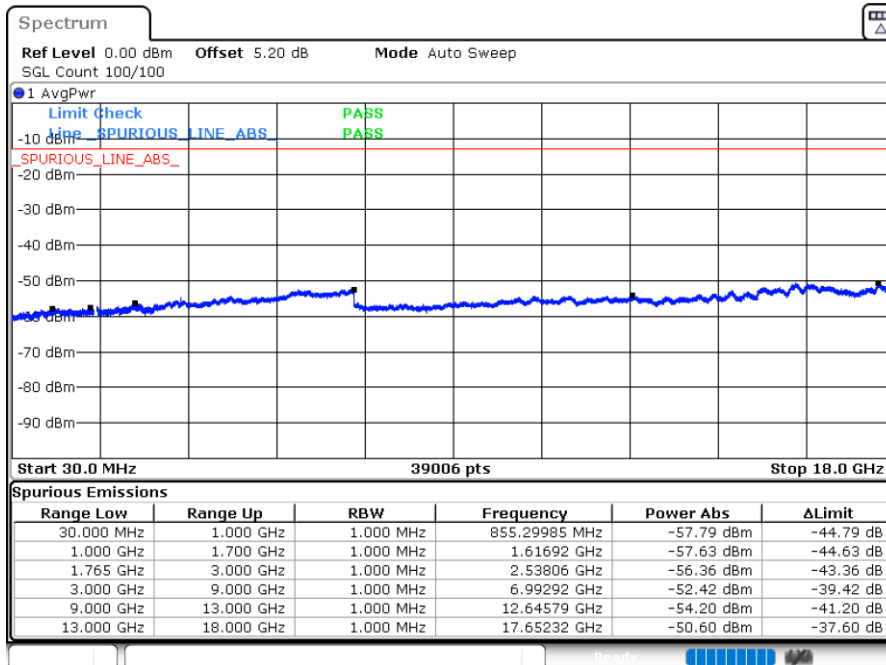


Date: 6.JAN.2022 08:51:41



Date: 6.JAN.2022 09:01:30

Highest Channel / QPSK

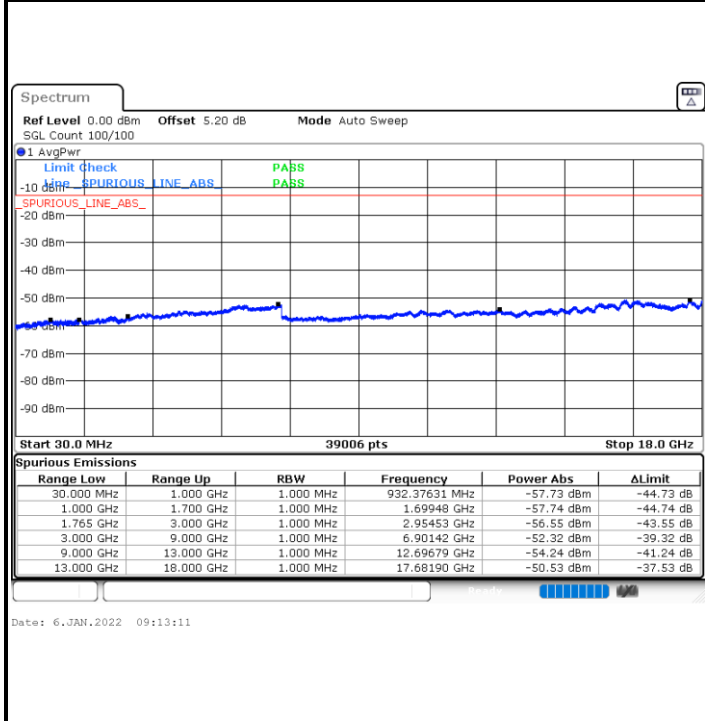


Date: 6.JAN.2022 09:03:12

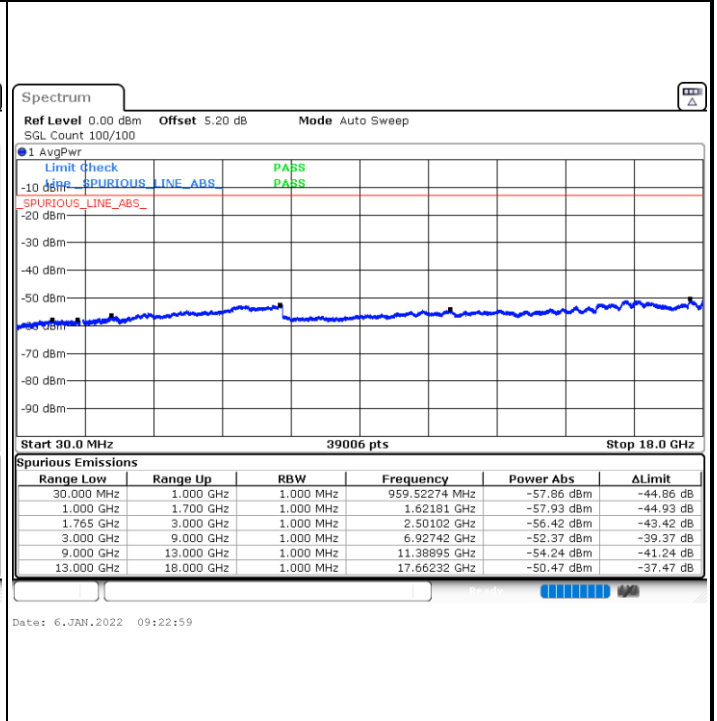


LTE Band 4 / 10MHz

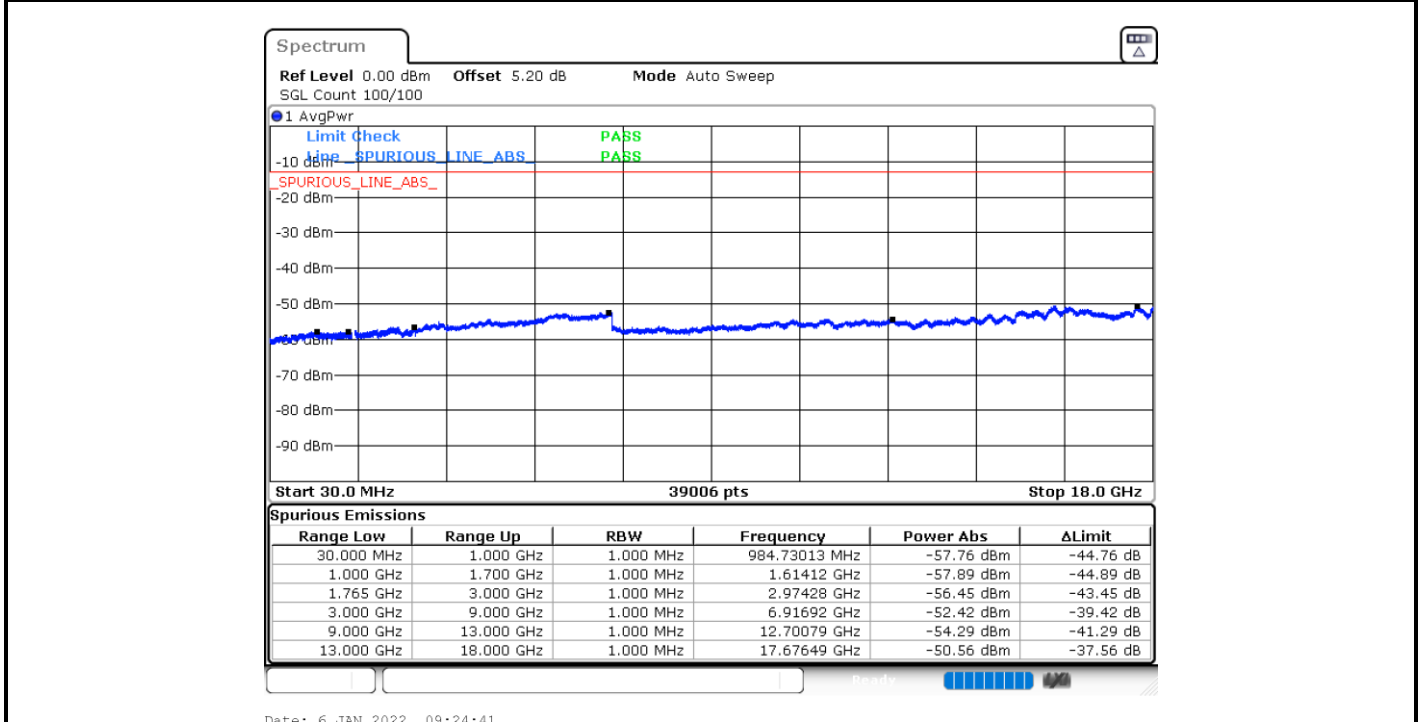
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

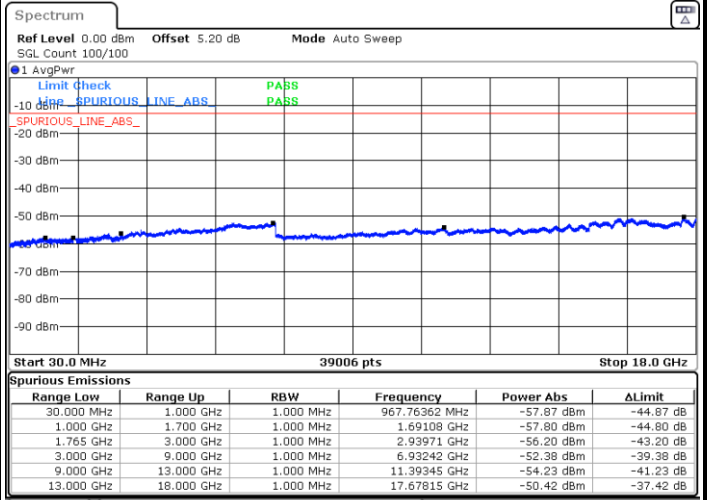
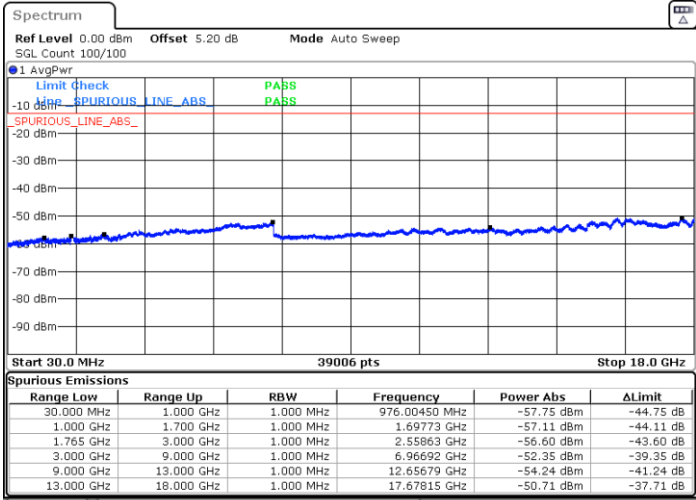




LTE Band 4 / 15MHz

Lowest Channel / QPSK

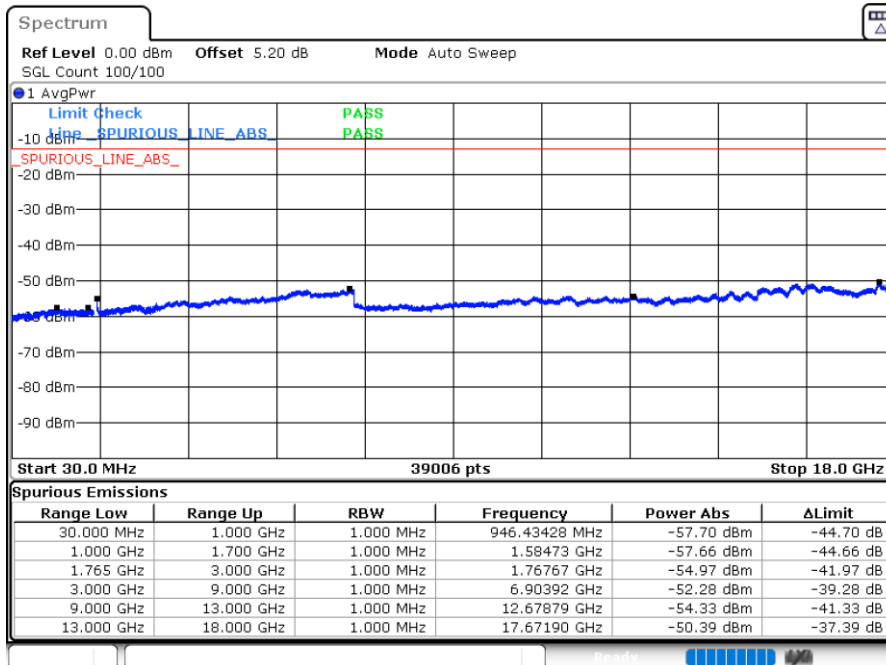
Middle Channel / QPSK



Date: 6.JAN.2022 09:34:40

Date: 6.JAN.2022 09:44:28

Highest Channel / QPSK



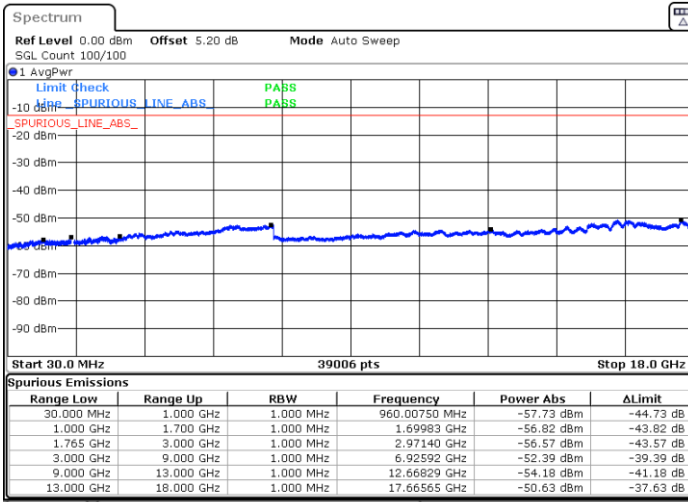
Date: 6.JAN.2022 09:46:10



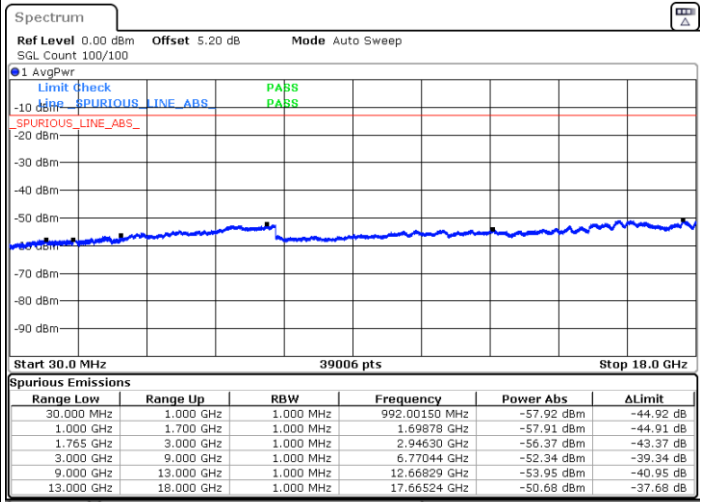
LTE Band 4 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

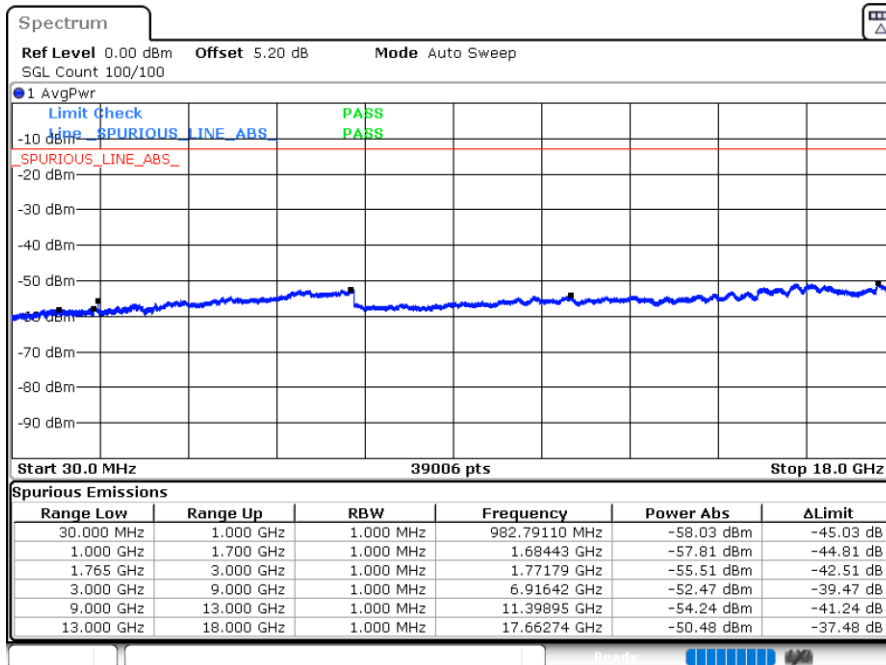


Date: 6.JAN.2022 09:56:09



Date: 6.JAN.2022 10:05:58

Highest Channel / QPSK



Date: 6.JAN.2022 10:07:40



Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0015	
20	Battery End Point	0.0007	

Note:

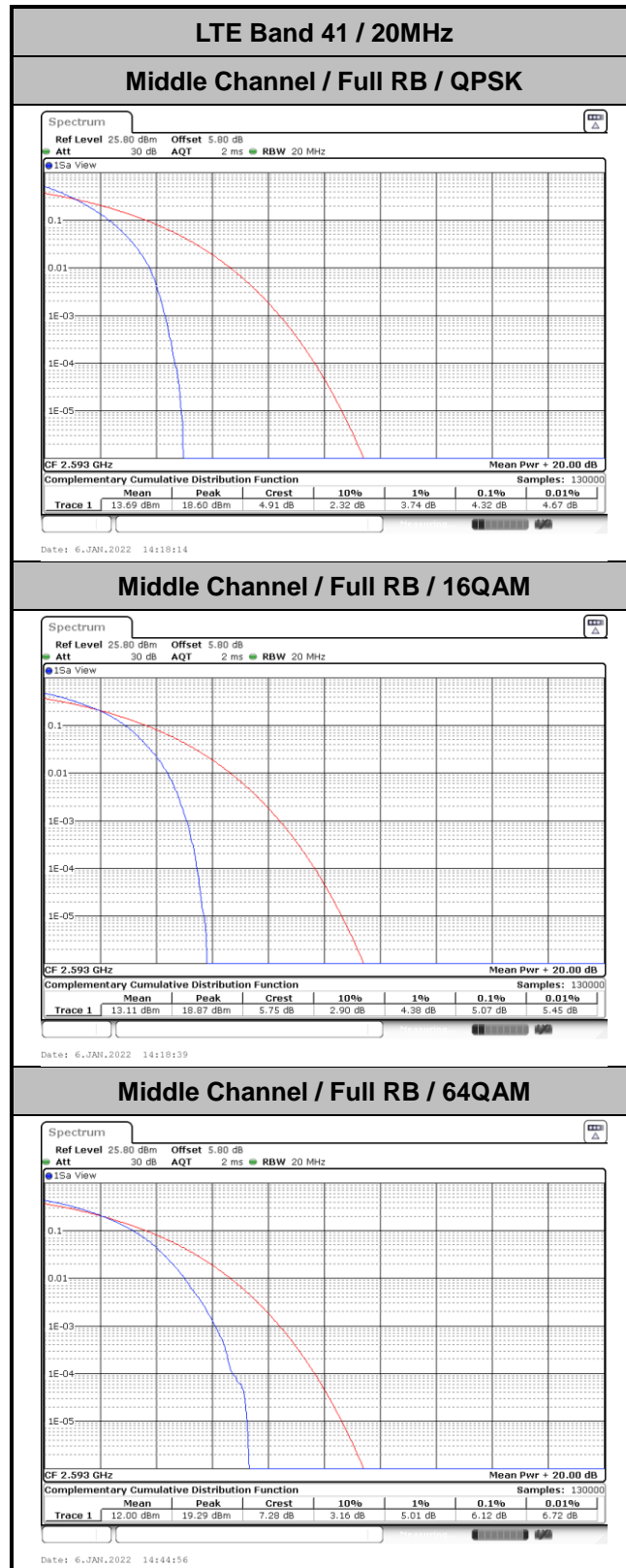
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.32	5.07	6.12	PASS





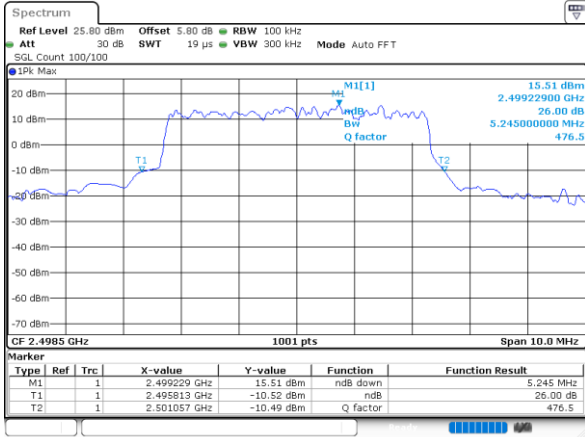
26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)		
BW	5 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	5.25	4.92	4.93
Middle CH	5.01	4.91	4.80
Highest CH	5.08	4.91	4.98



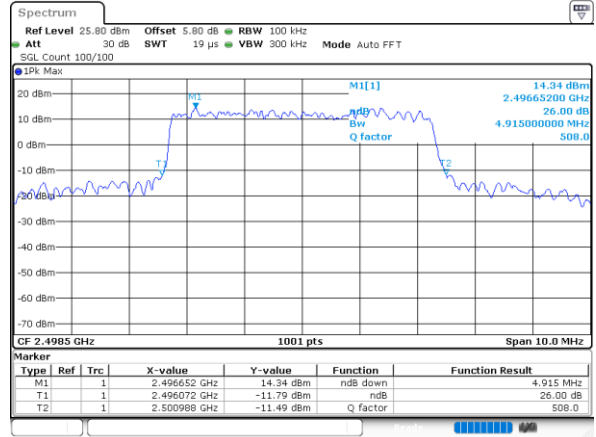
LTE Band 41

Lowest Channel / 5MHz / QPSK



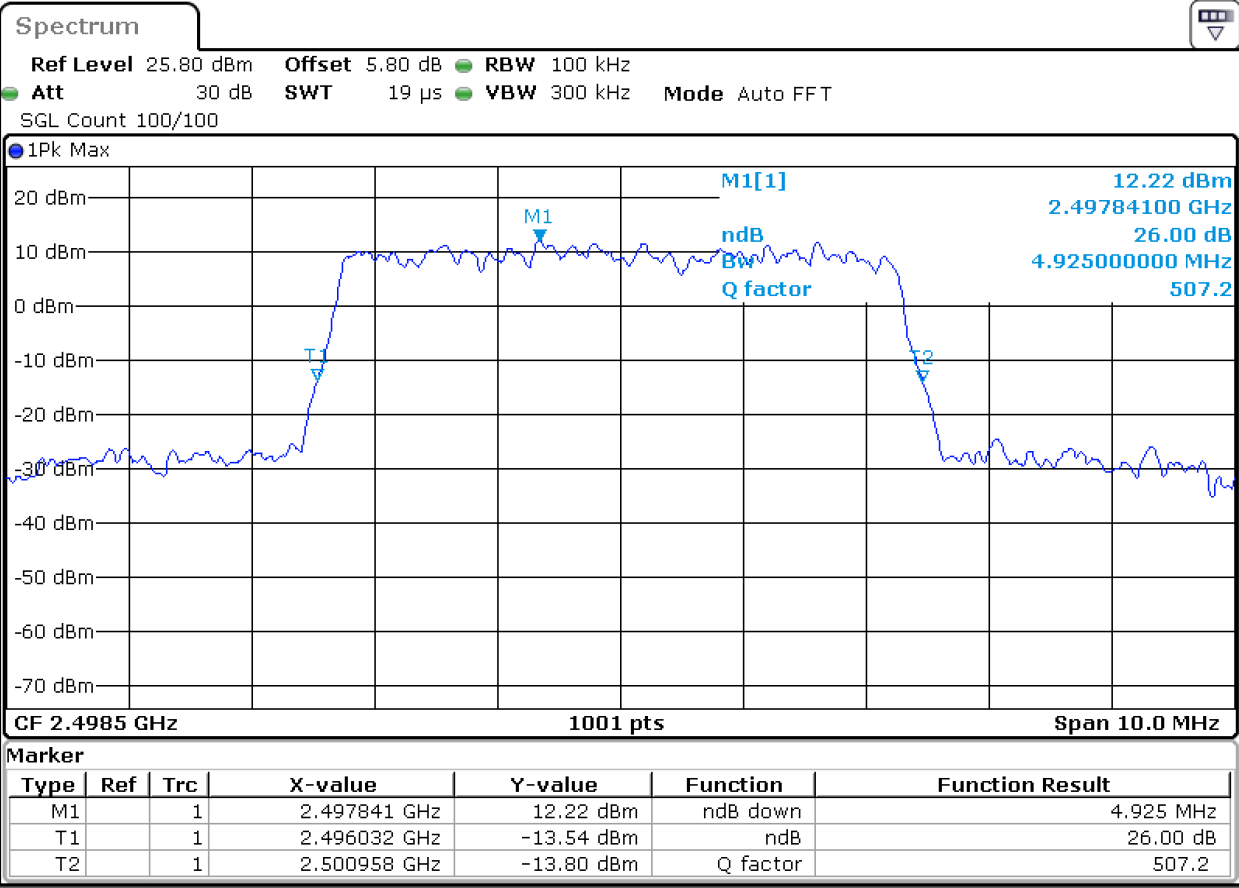
Date: 7.JAN.2022 19:54:02

Lowest Channel / 5MHz / 16QAM



Date: 7.JAN.2022 19:54:41

Lowest Channel / 5MHz / 64QAM

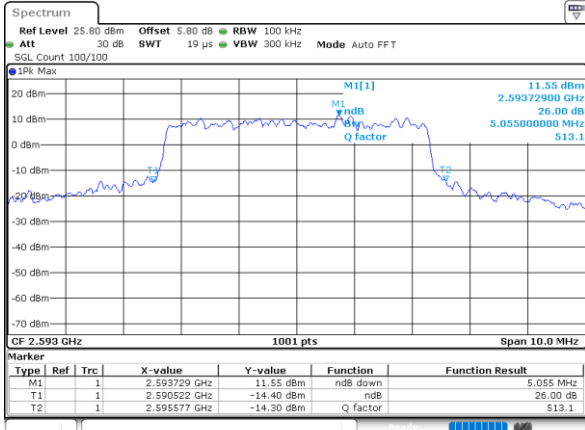


Date: 7.JAN.2022 19:55:20



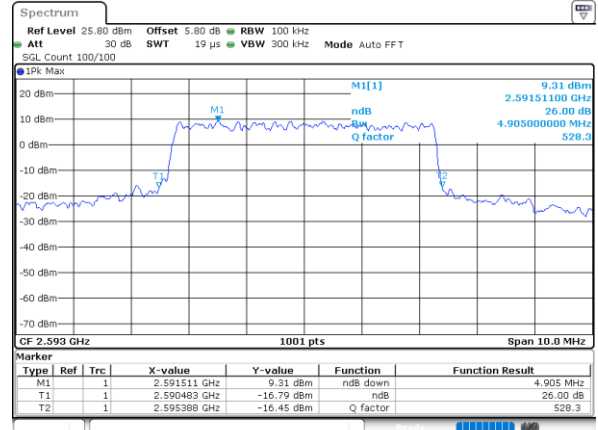
LTE Band 41

Middle Channel / 5MHz / QPSK



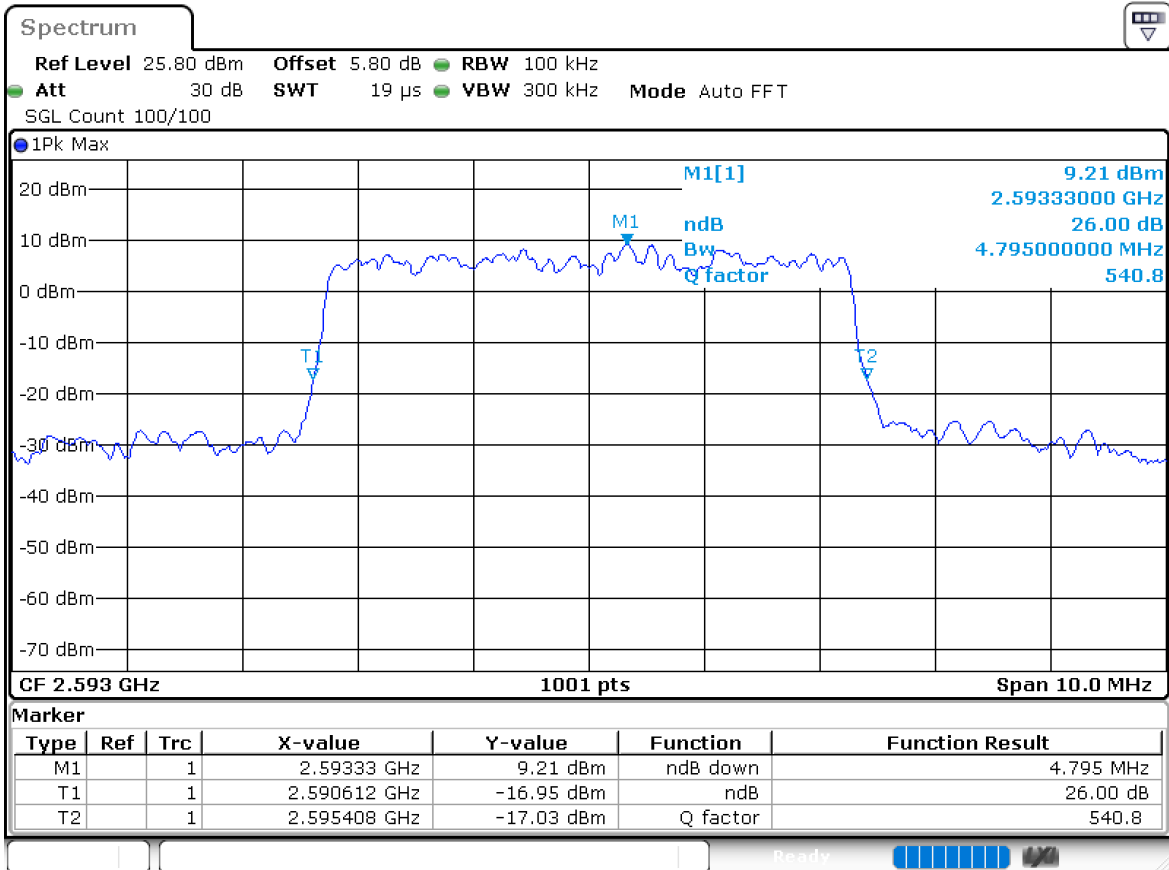
Date: 7.JAN.2022 19:55:59

Middle Channel / 5MHz / 16QAM



Date: 7.JAN.2022 19:56:37

Middle Channel / 5MHz / 64QAM

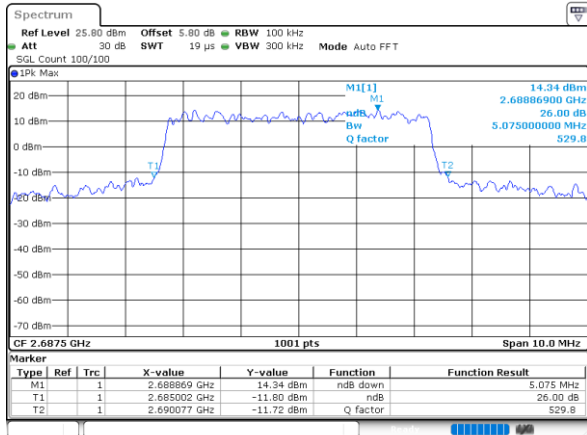


Date: 7.JAN.2022 19:57:16



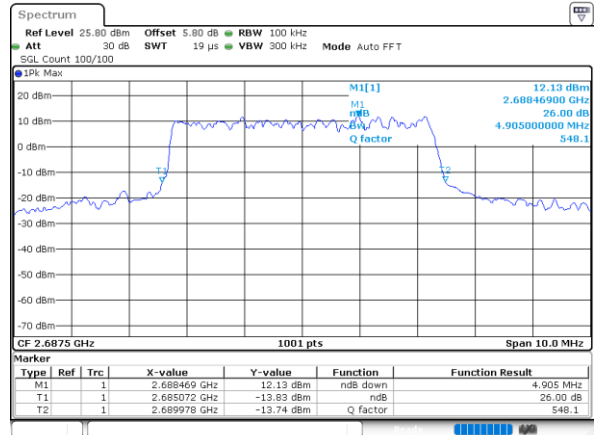
LTE Band 41

Highest Channel / 5MHz / QPSK



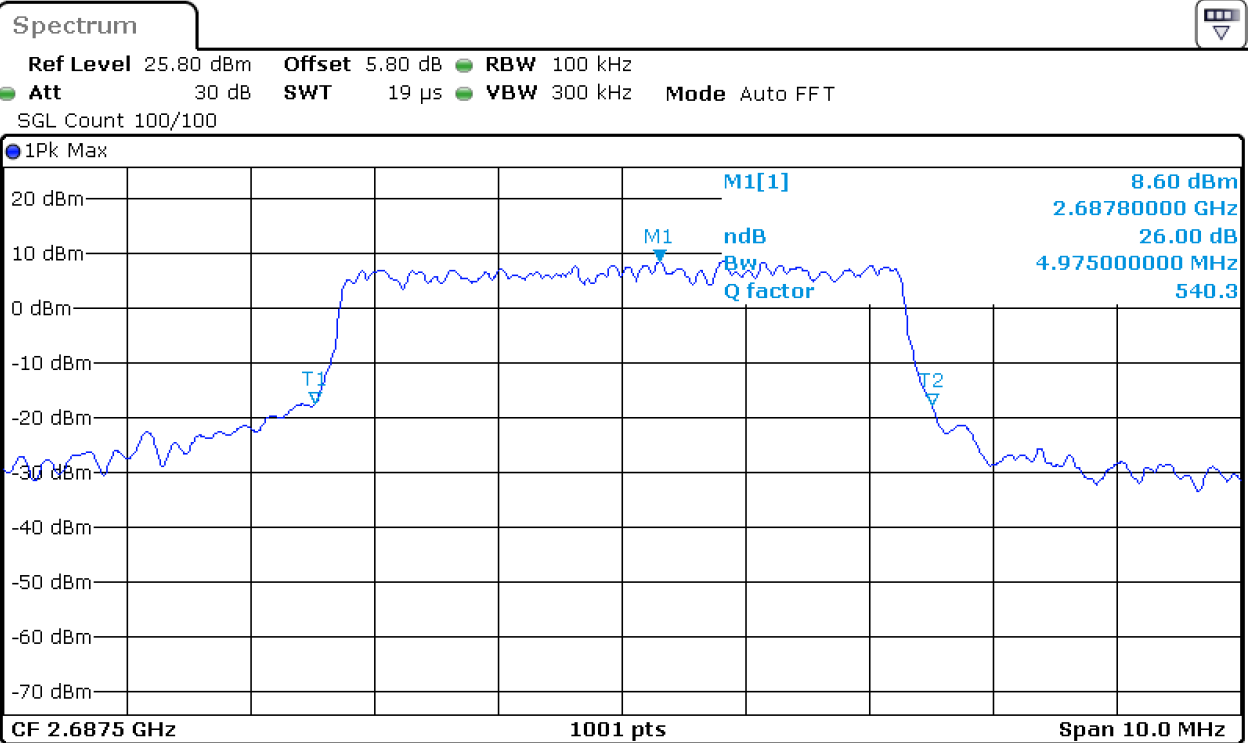
Date: 7.JAN.2022 19:57:55

Highest Channel / 5MHz / 16QAM



Date: 7.JAN.2022 19:58:34

Highest Channel / 5MHz / 64QAM



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.6878 GHz	8.60 dBm	ndB down	4.975 MHz
T1	1		2.685022 GHz	-17.41 dBm	ndB	26.00 dB
T2	1		2.689998 GHz	-17.52 dBm	Q factor	540.3

Date: 7.JAN.2022 19:59:13

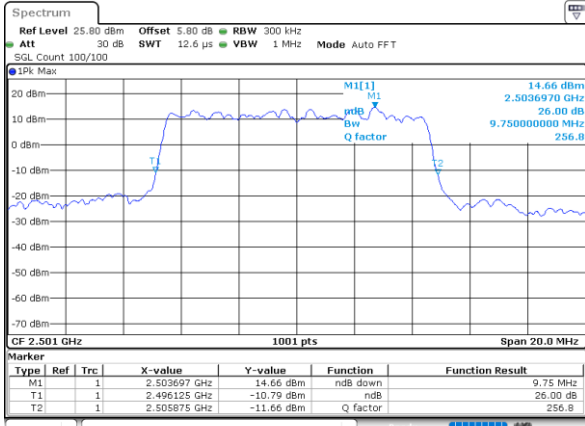


Mode	LTE Band 41 : 26dB BW(MHz)		
BW	10 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	9.75	10.21	9.89
Middle CH	9.79	9.81	9.91
Highest CH	9.67	9.71	9.65



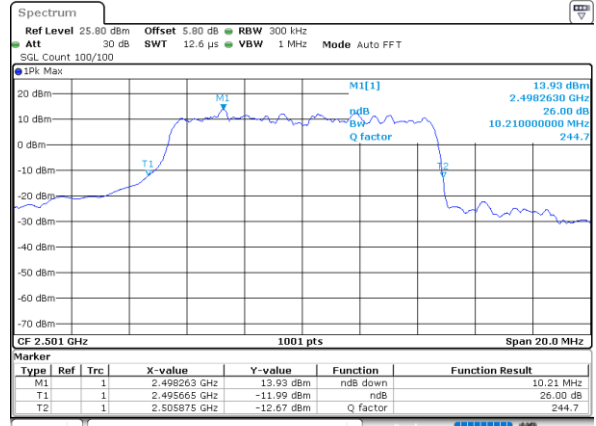
LTE Band 41

Lowest Channel / 10MHz / QPSK



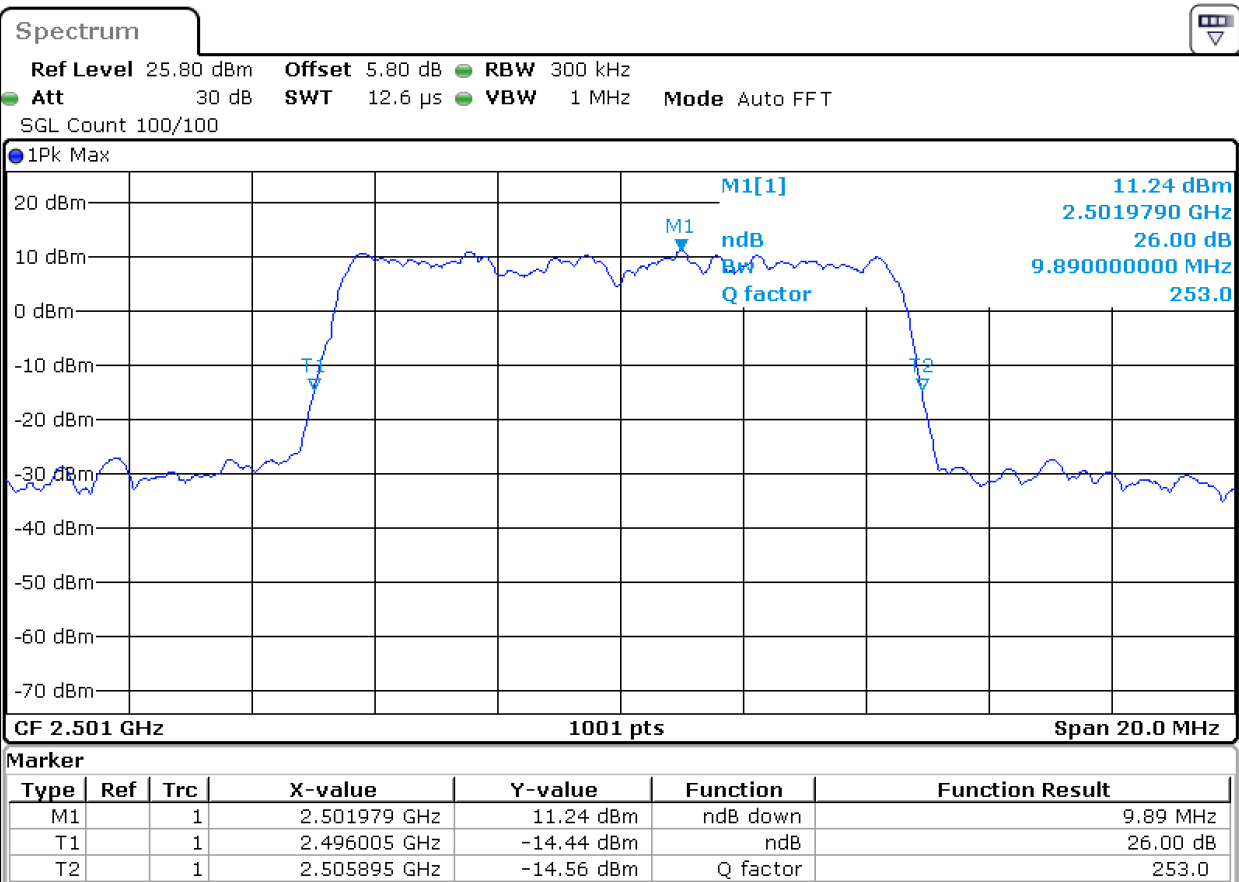
Date: 7.JAN.2022 19:59:53

Lowest Channel / 10MHz / 16QAM



Date: 7.JAN.2022 20:00:32

Lowest Channel / 10MHz / 64QAM

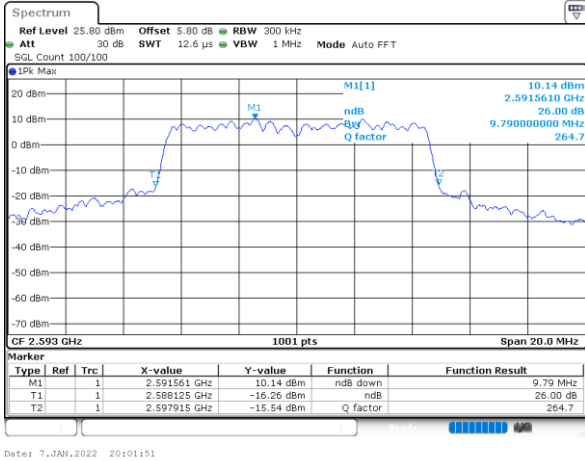


Date: 7.JAN.2022 20:01:11



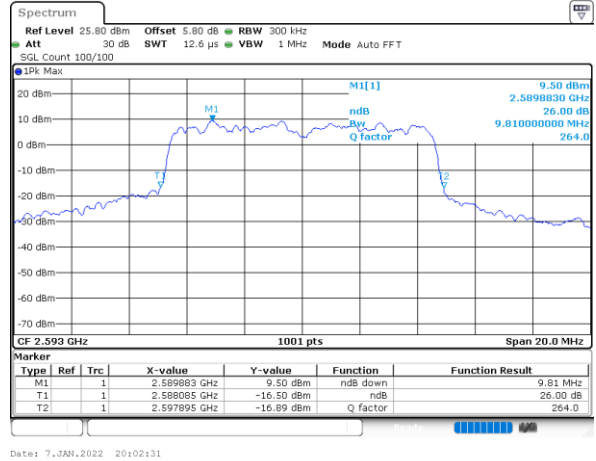
LTE Band 41

Middle Channel / 10MHz / QPSK



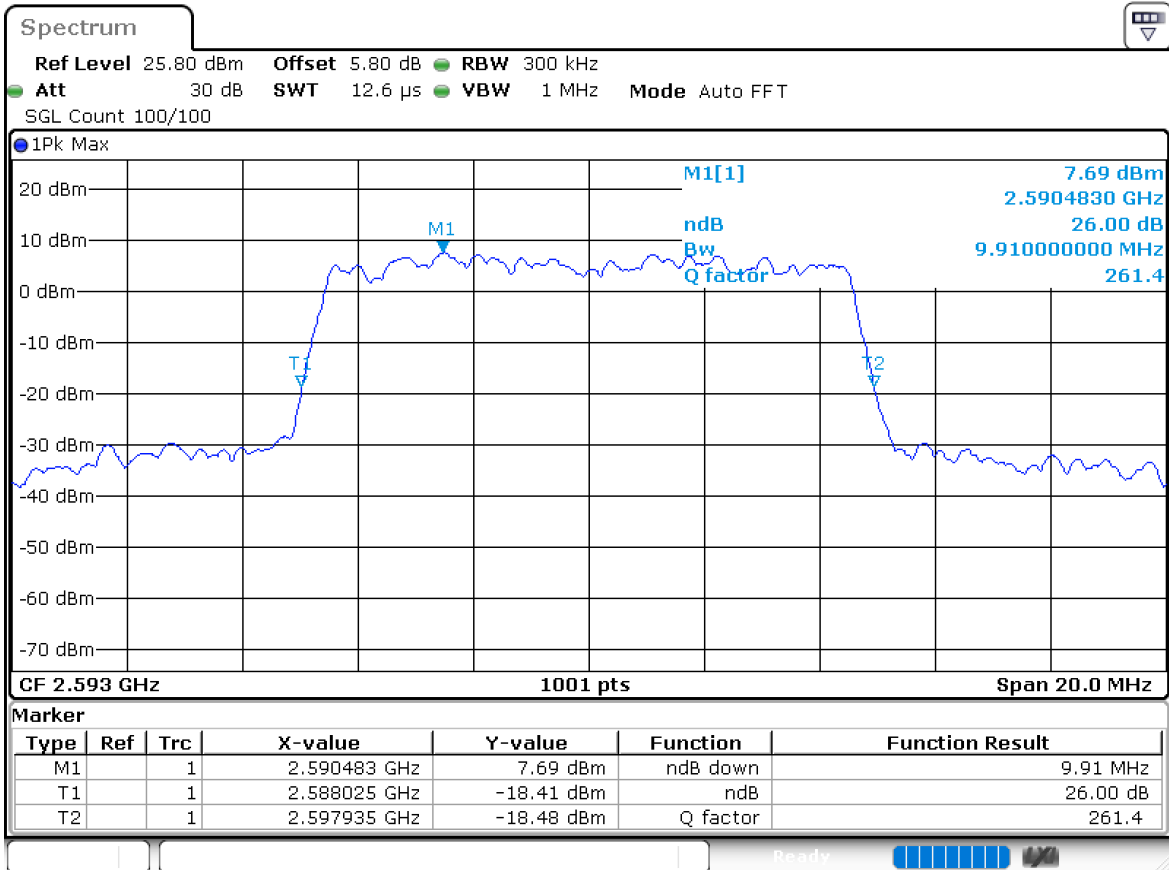
Date: 7.JAN.2022 20:01:51

Middle Channel / 10MHz / 16QAM



Date: 7.JAN.2022 20:02:31

Middle Channel / 10MHz / 64QAM

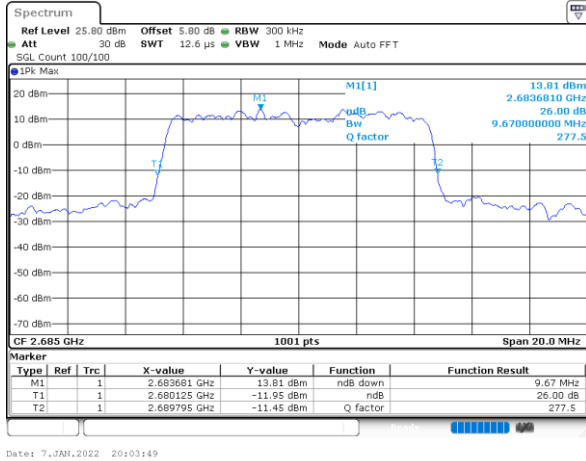


Date: 7.JAN.2022 20:03:10



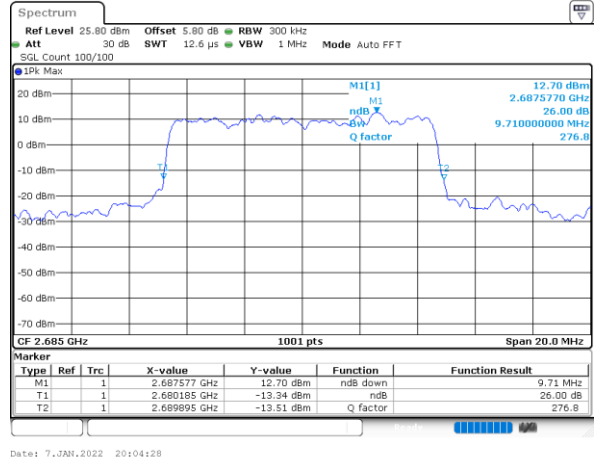
LTE Band 41

Highest Channel / 10MHz / QPSK



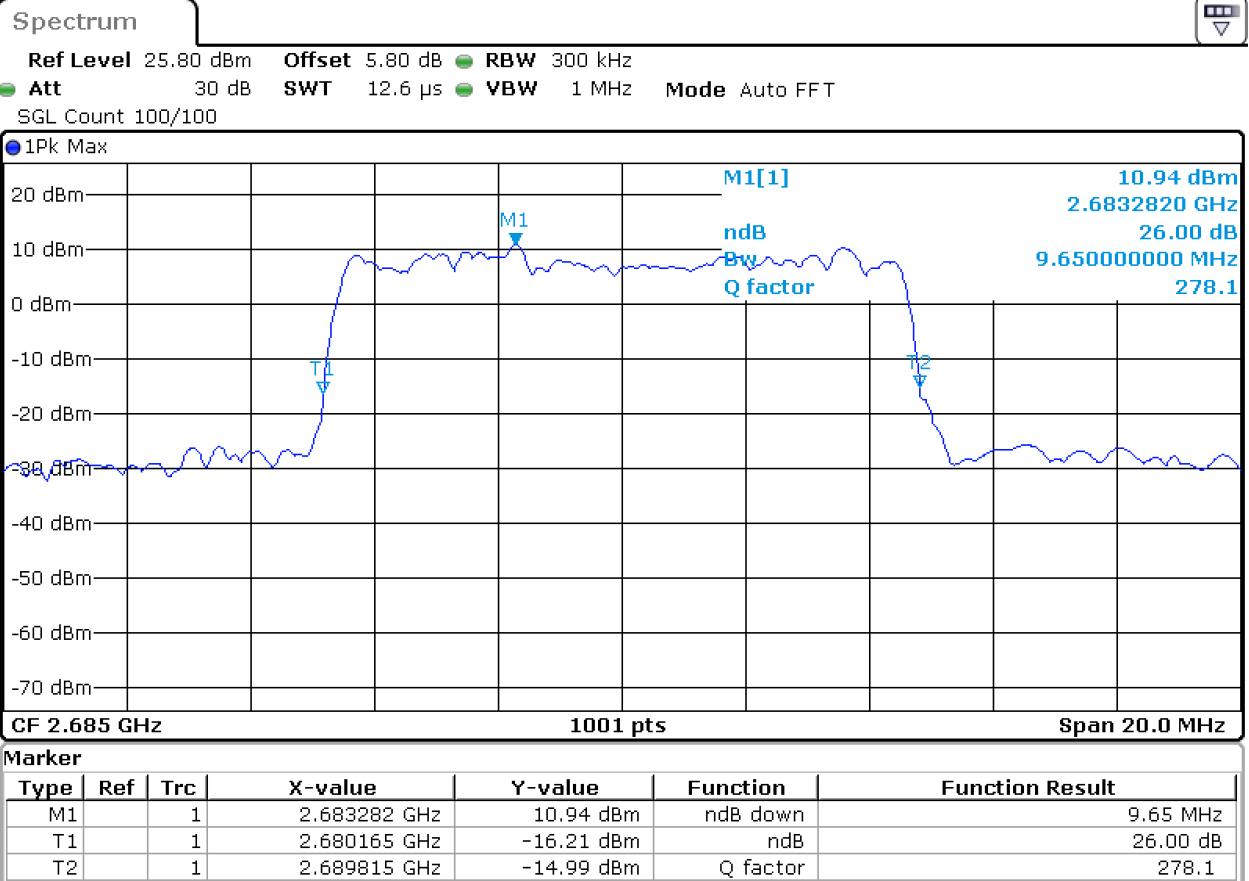
Date: 7.JAN.2022 20:03:49

Highest Channel / 10MHz / 16QAM



Date: 7.JAN.2022 20:04:28

Highest Channel / 10MHz / 64QAM



Date: 7.JAN.2022 20:05:07

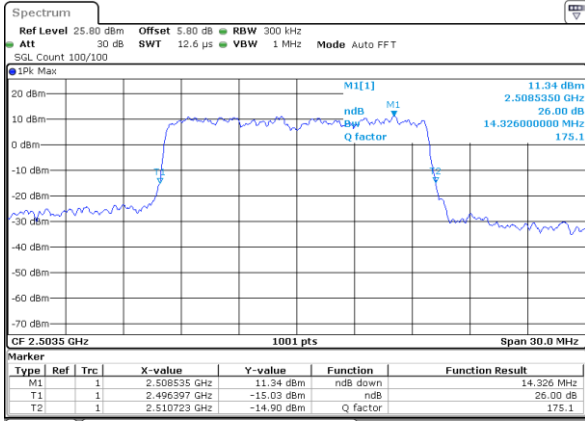


Mode	LTE Band 41 : 26dB BW(MHz)		
BW	15 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	14.33	14.15	14.54
Middle CH	14.51	14.54	14.42
Highest CH	14.45	14.24	14.15



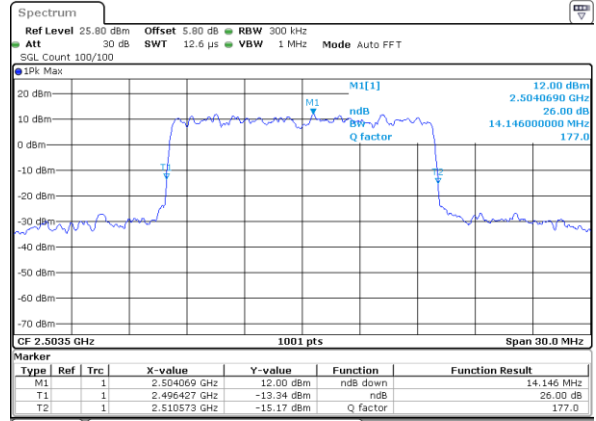
LTE Band 41

Lowest Channel / 15MHz / QPSK



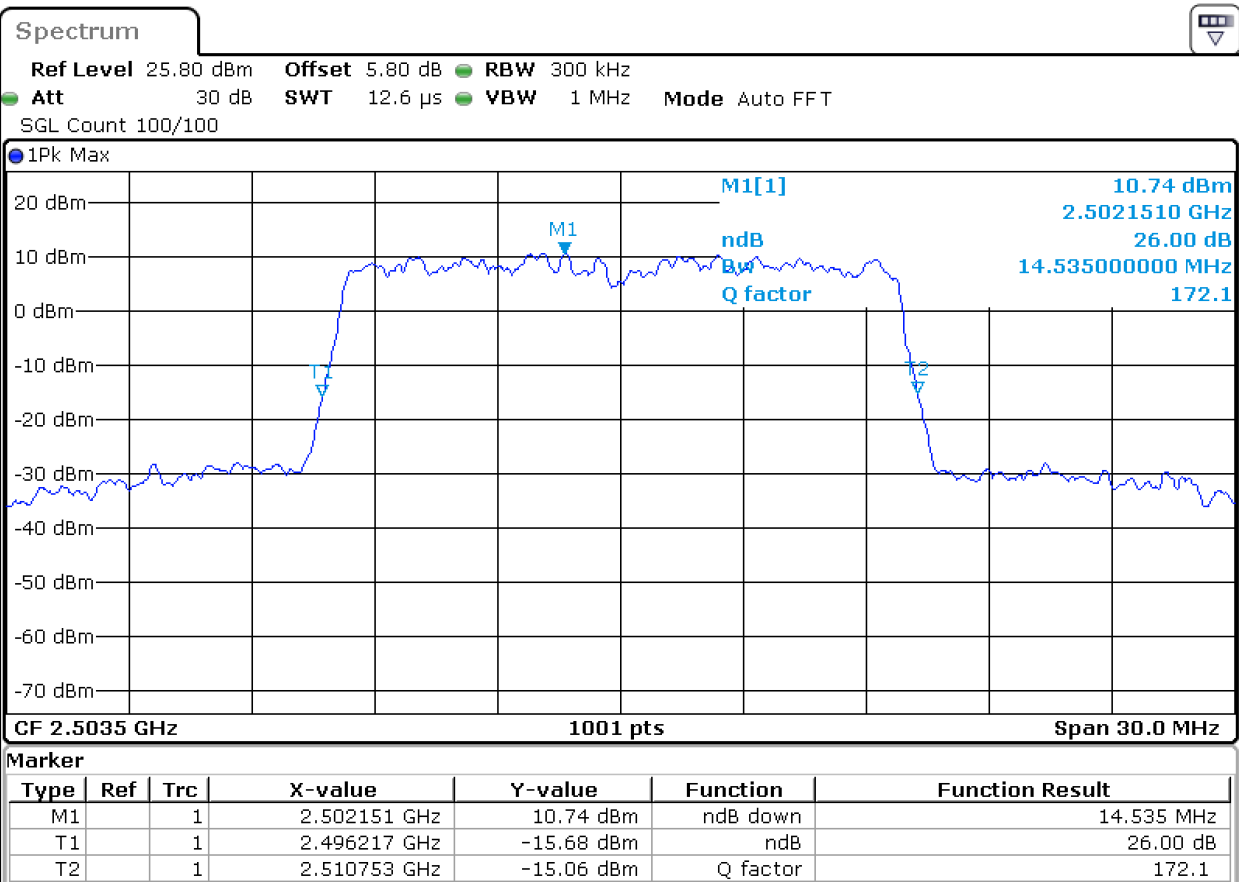
Date: 7.JAN.2022 20:05:48

Lowest Channel / 15MHz / 16QAM



Date: 7.JAN.2022 20:06:27

Lowest Channel / 15MHz / 64QAM

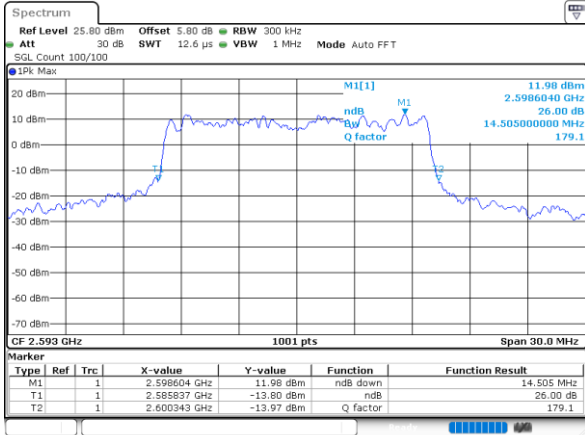


Date: 7.JAN.2022 20:07:07



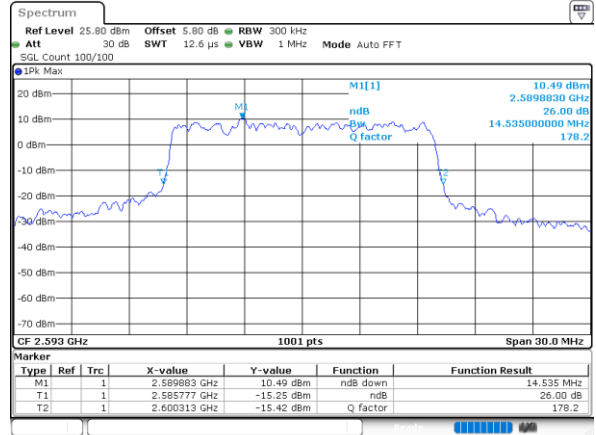
LTE Band 41

Middle Channel / 15MHz / QPSK



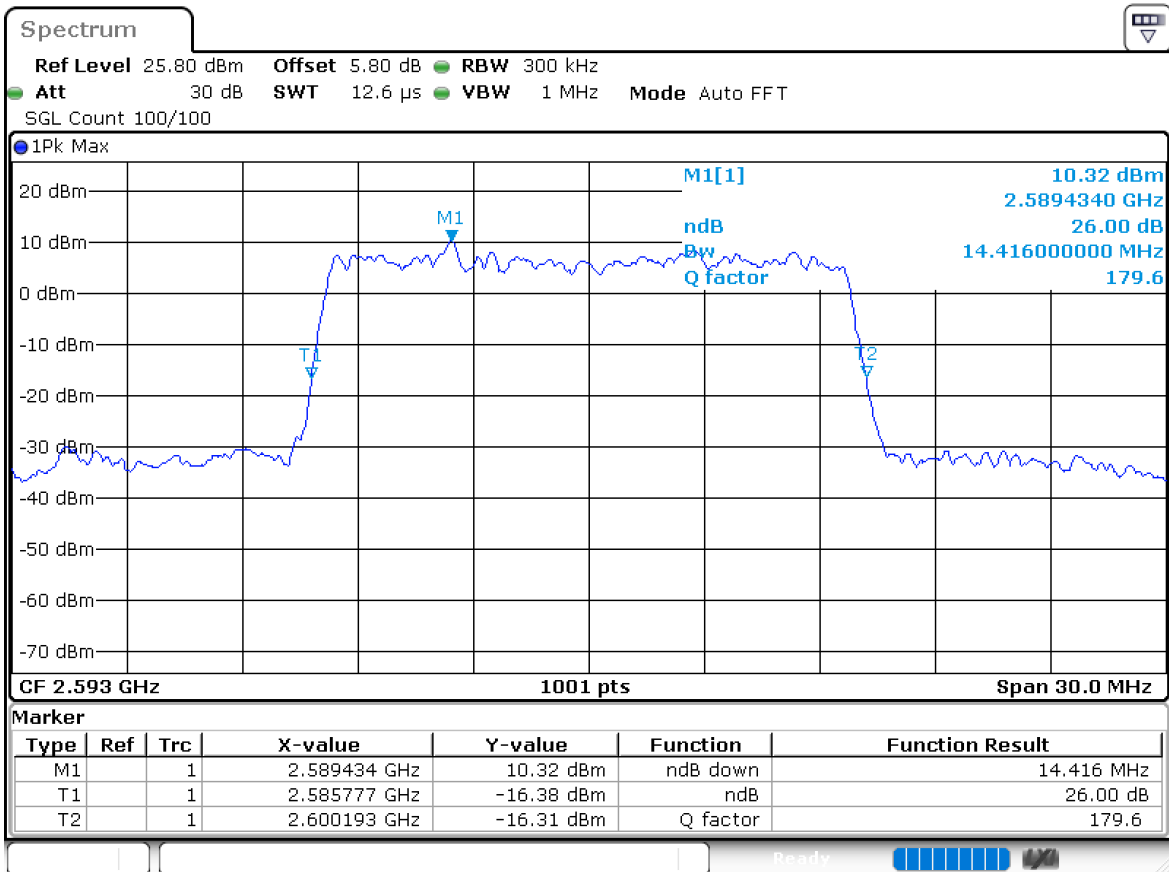
Date: 7.JAN.2022 20:10:15

Middle Channel / 15MHz / 16QAM



Date: 7.JAN.2022 20:08:24

Middle Channel / 15MHz / 64QAM

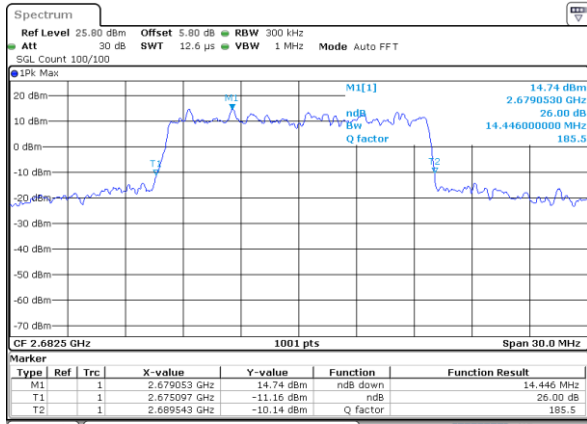


Date: 7.JAN.2022 20:09:02



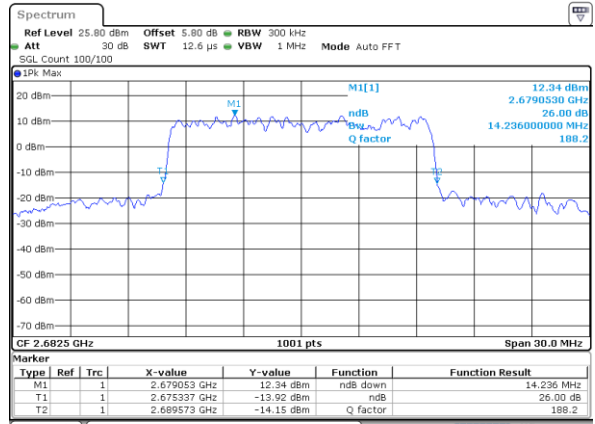
LTE Band 41

Highest Channel / 15MHz / QPSK



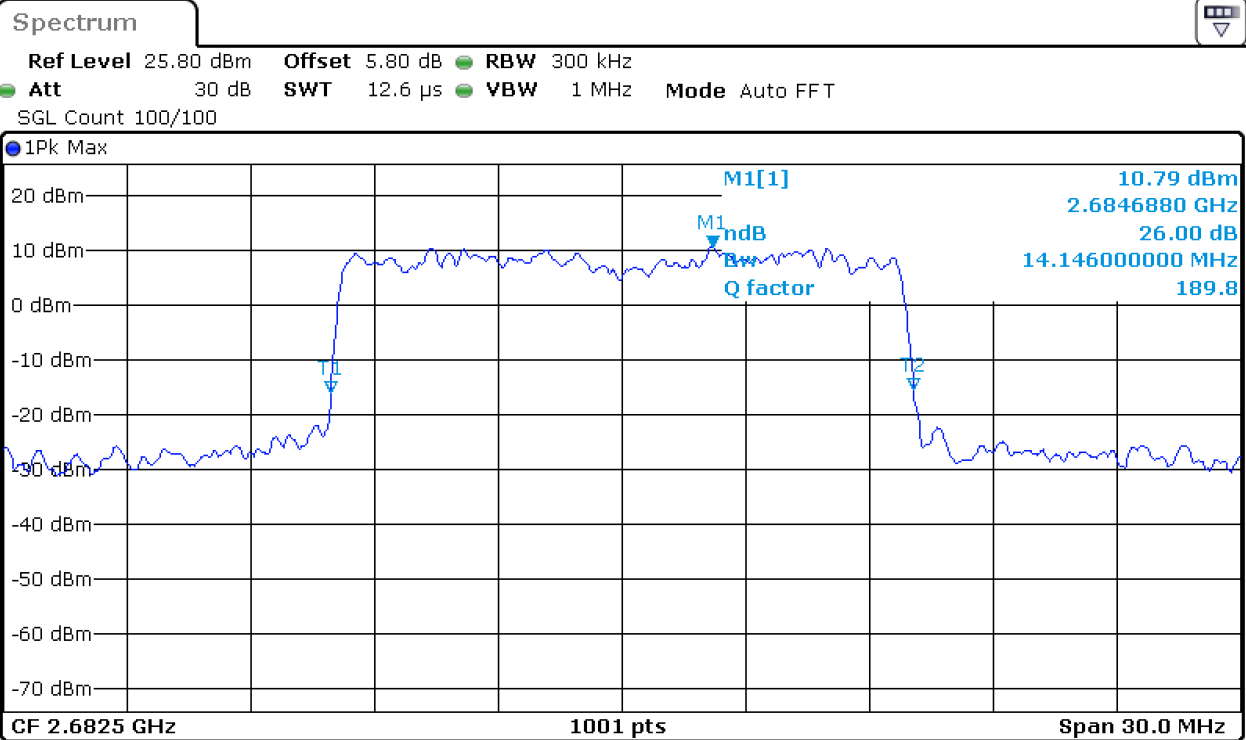
Date: 7.JAN.2022 20:09:41

Highest Channel / 15MHz / 16QAM



Date: 7.JAN.2022 20:10:20

Highest Channel / 15MHz / 64QAM



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.684688 GHz	10.79 dBm	ndB down	14.146 MHz
T1	1		2.675427 GHz	-15.83 dBm	ndB	26.00 dB
T2	1		2.689573 GHz	-15.37 dBm	Q factor	189.8

Date: 7.JAN.2022 20:10:59

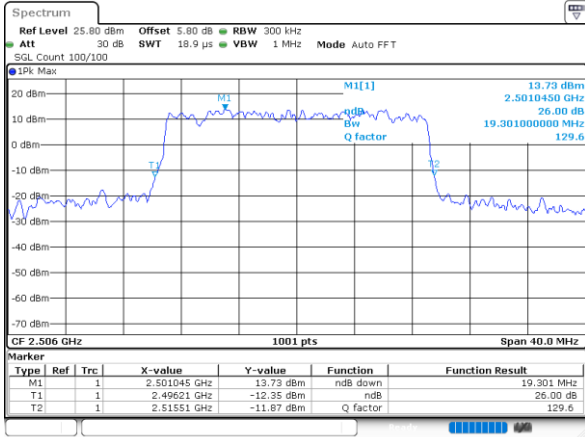


Mode	LTE Band 41 : 26dB BW(MHz)		
BW	20 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	19.30	18.82	19.02
Middle CH	18.98	18.70	18.86
Highest CH	19.34	18.78	18.74



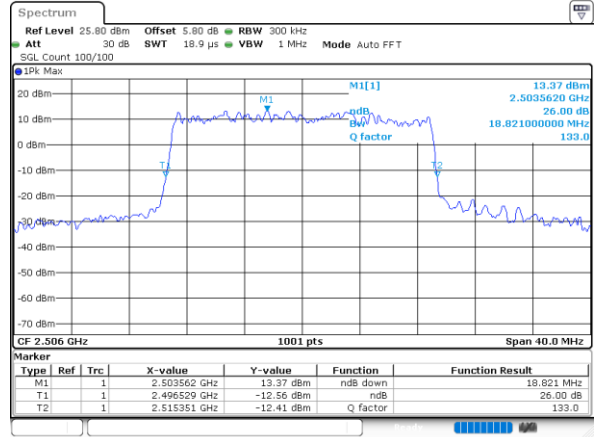
LTE Band 41

Lowest Channel / 20MHz / QPSK



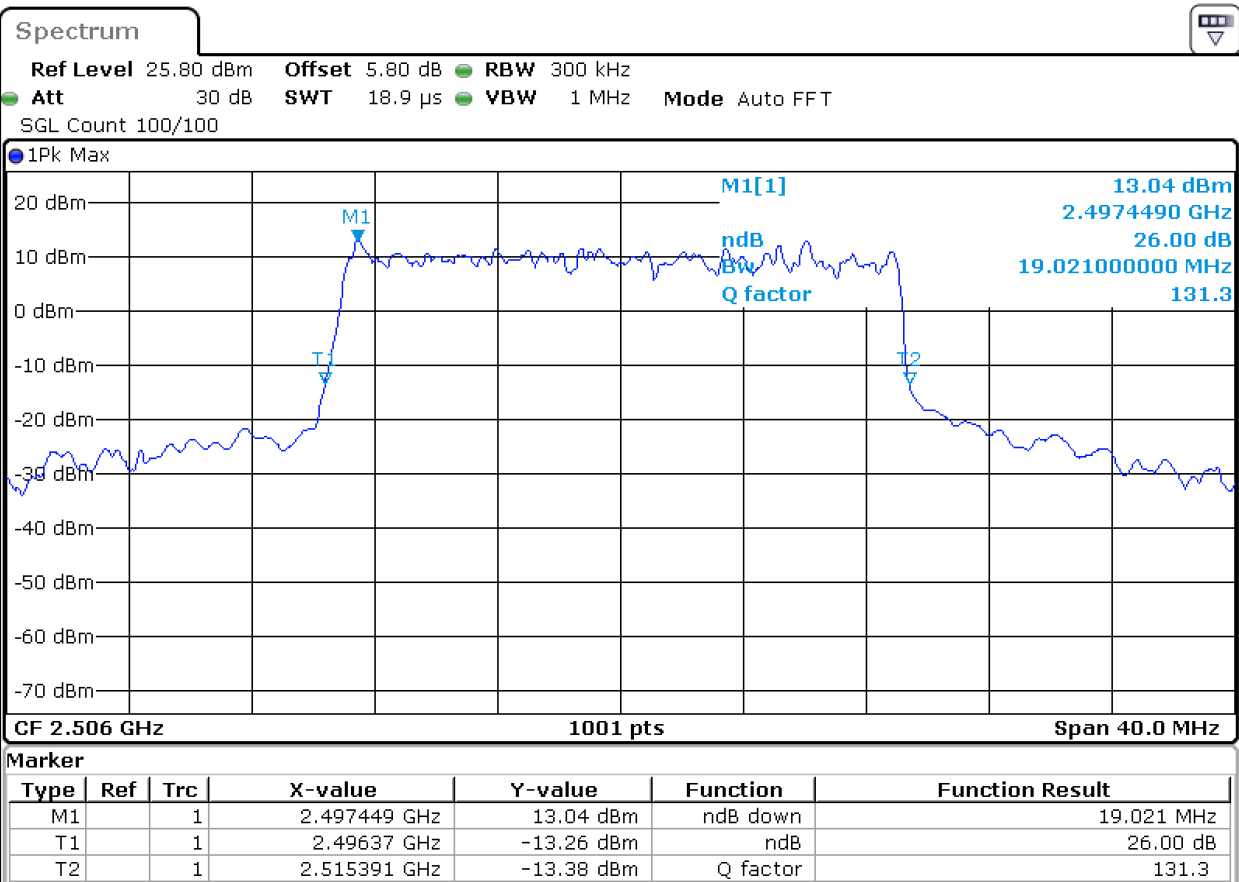
Date: 7.JAN.2022 20:11:40

Lowest Channel / 20MHz / 16QAM



Date: 7.JAN.2022 20:12:19

Lowest Channel / 20MHz / 64QAM

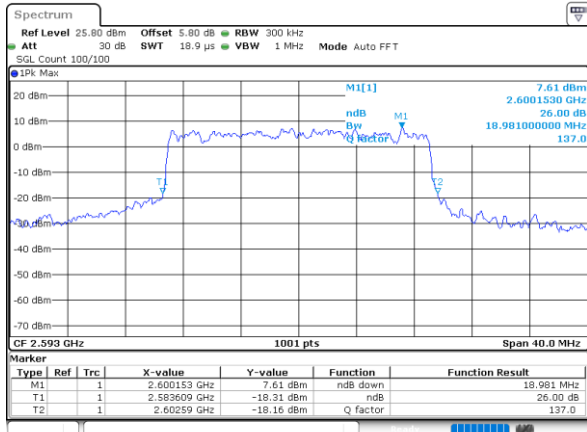


Date: 7.JAN.2022 20:12:58



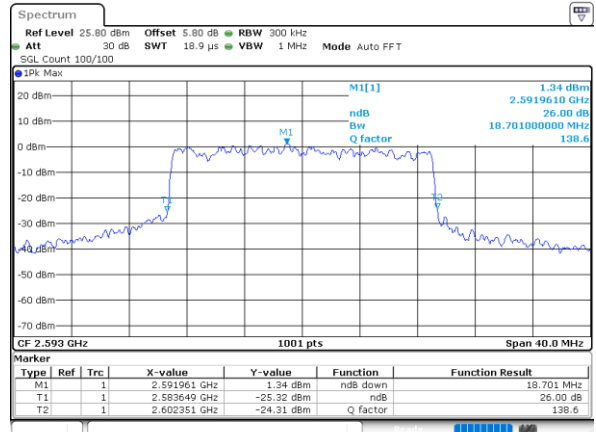
LTE Band 41

Middle Channel / 20MHz / QPSK



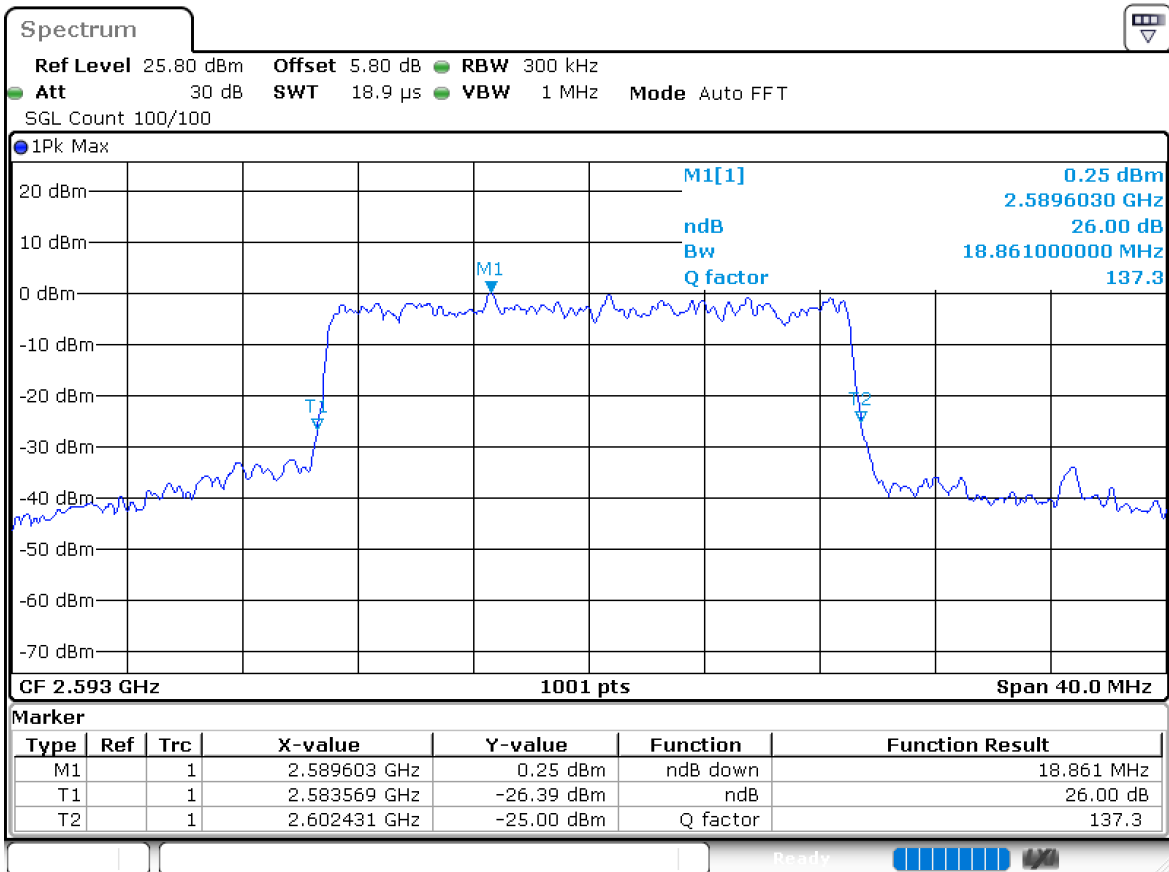
Date: 7.JAN.2022 20:13:37

Middle Channel / 20MHz / 16QAM



Date: 7.JAN.2022 20:14:15

Middle Channel / 20MHz / 64QAM

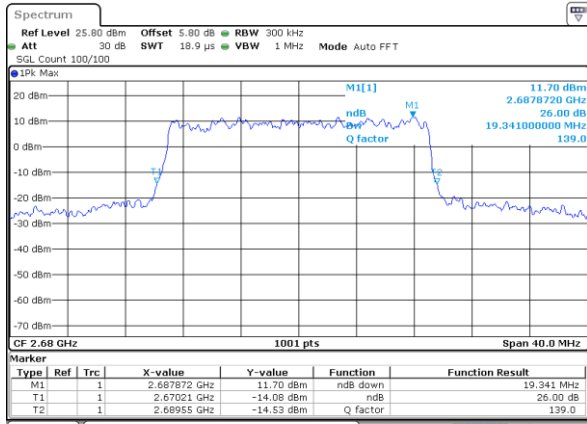


Date: 7.JAN.2022 20:14:54



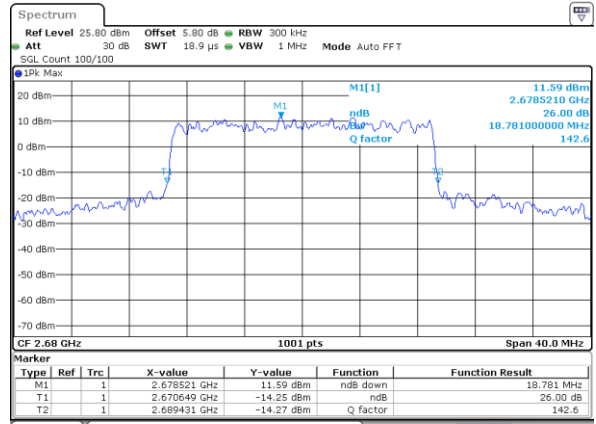
LTE Band 41

Highest Channel / 20MHz / QPSK



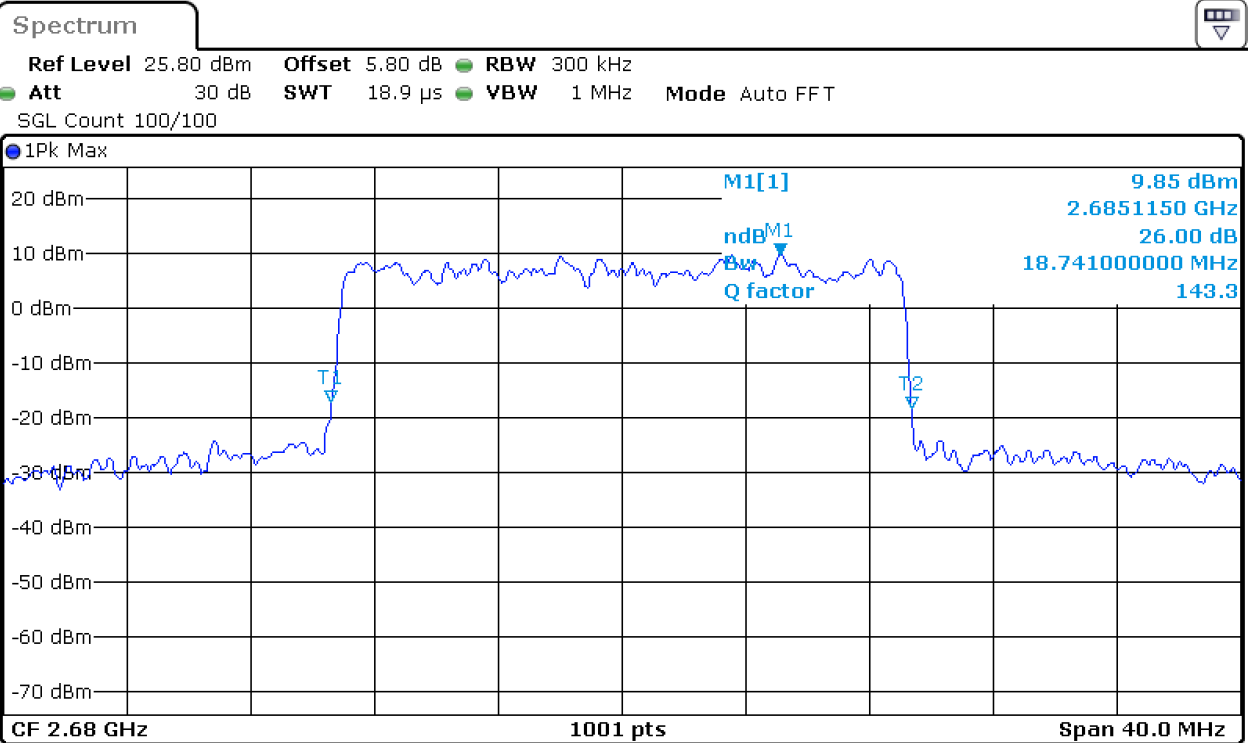
Date: 7.JAN.2022 20:15:32

Highest Channel / 20MHz / 16QAM



Date: 7.JAN.2022 20:16:12

Highest Channel / 20MHz / 64QAM



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.685115 GHz	9.85 dBm	ndB down	18.741 MHz
T1	1		2.670609 GHz	-17.01 dBm	ndB	26.00 dB
T2	1		2.689351 GHz	-18.16 dBm	Q factor	143.3

Date: 7.JAN.2022 20:16:51



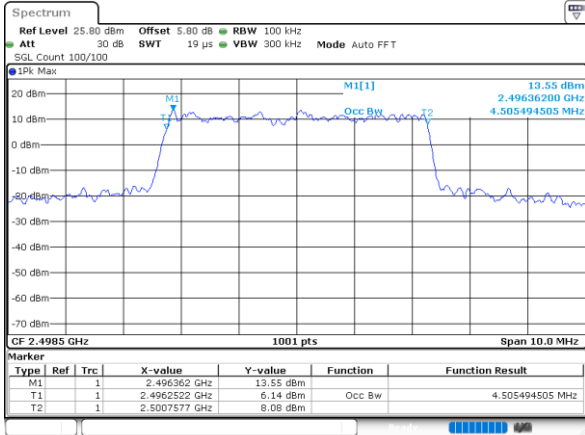
Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)		
BW	5 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	4.51	4.50	4.48
Middle CH	4.51	4.53	4.48
Highest CH	4.52	4.52	4.47

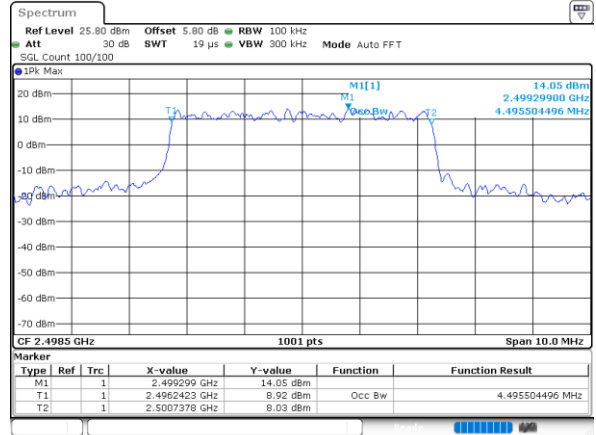


LTE Band 41

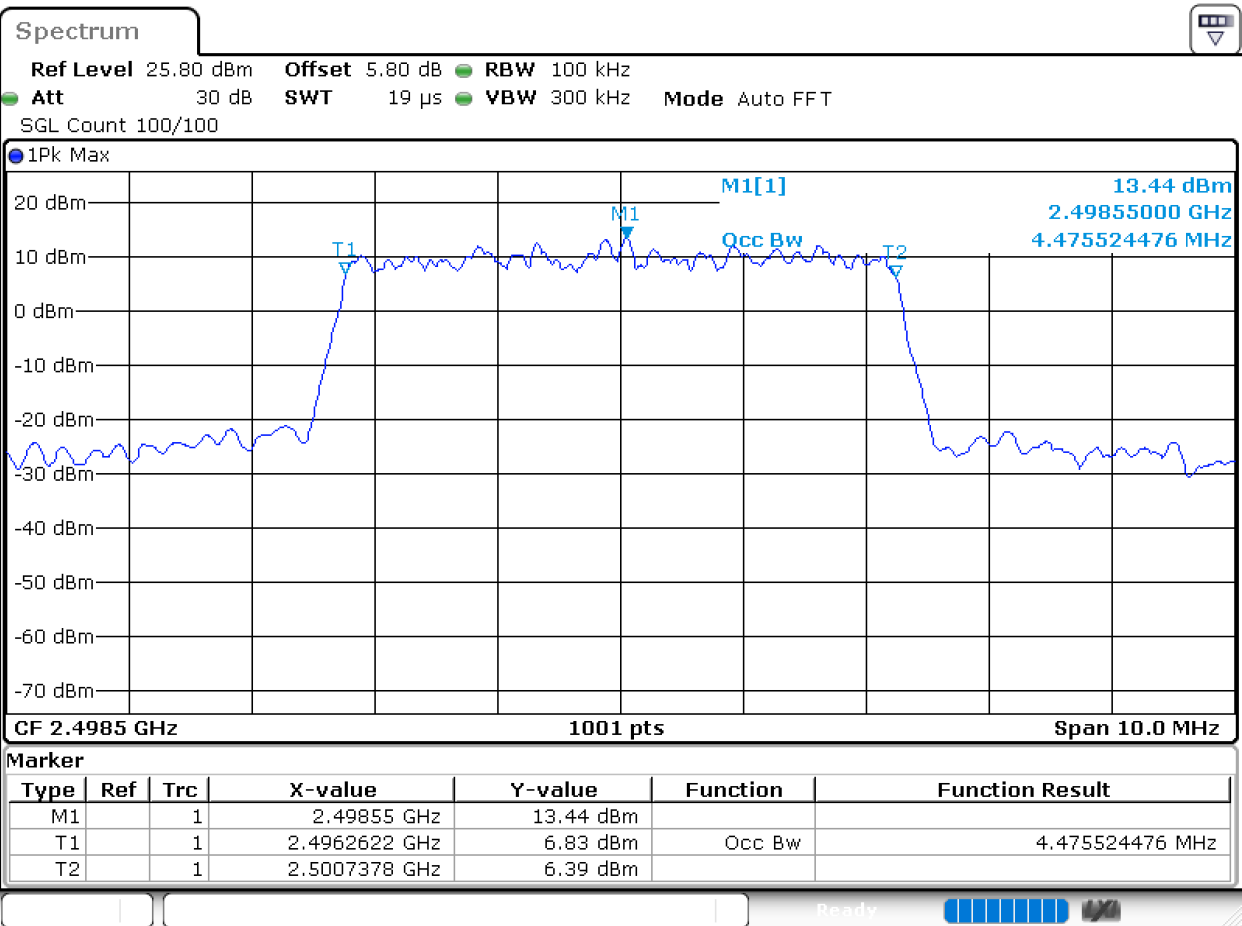
Lowest Channel / 5MHz / QPSK



Lowest Channel / 5MHz / 16QAM



Lowest Channel / 5MHz / 64QAM

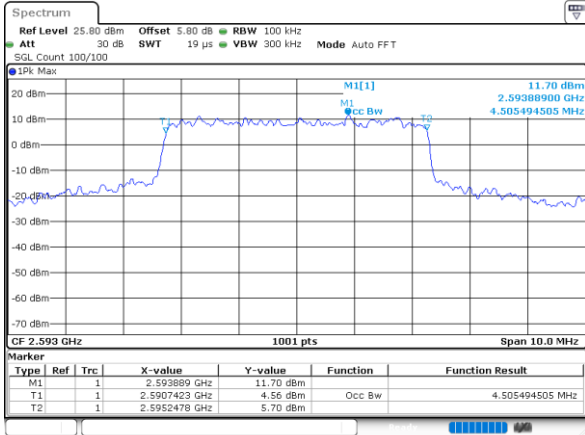


Date: 7.JAN.2022 19:55:06



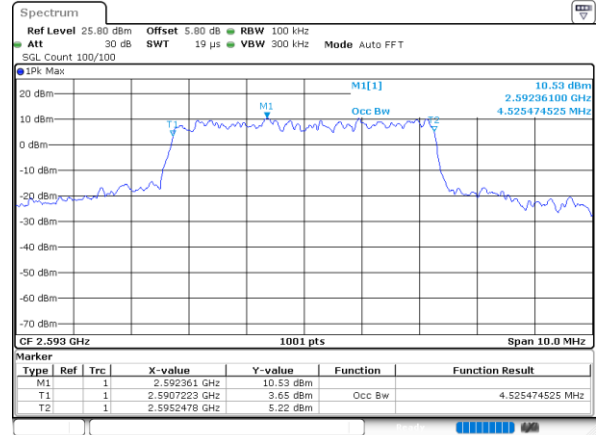
LTE Band 41

Middle Channel / 5MHz / QPSK



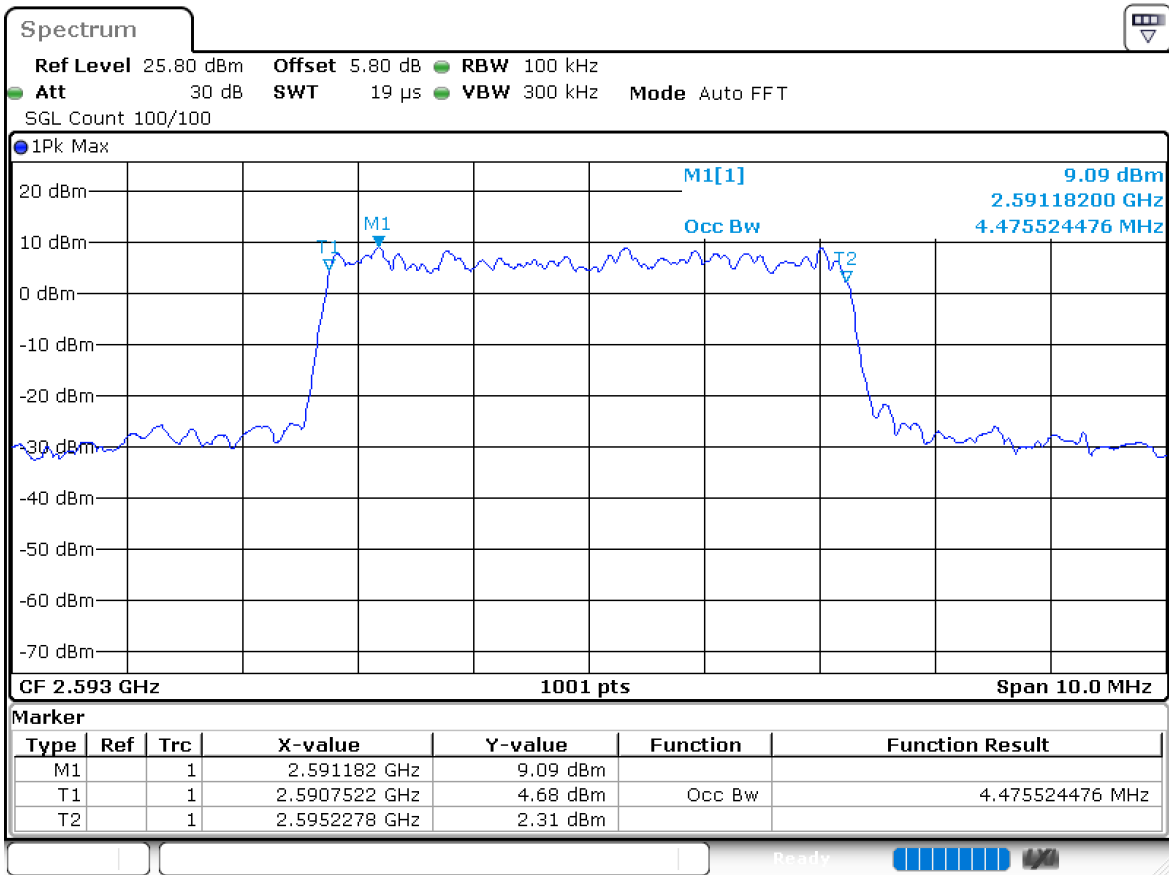
Date: 7.JAN.2022 19:55:44

Middle Channel / 5MHz / 16QAM



Date: 7.JAN.2022 19:56:22

Middle Channel / 5MHz / 64QAM

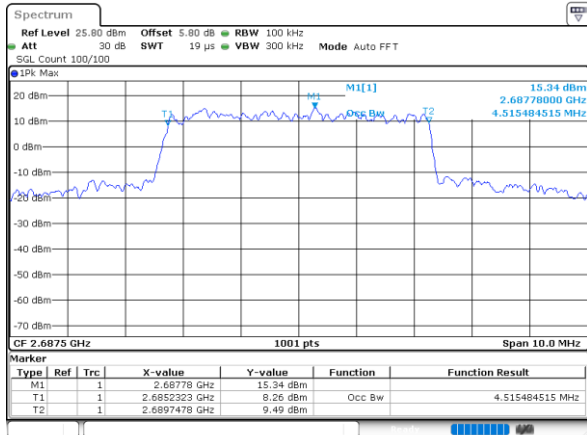


Date: 7.JAN.2022 19:57:01



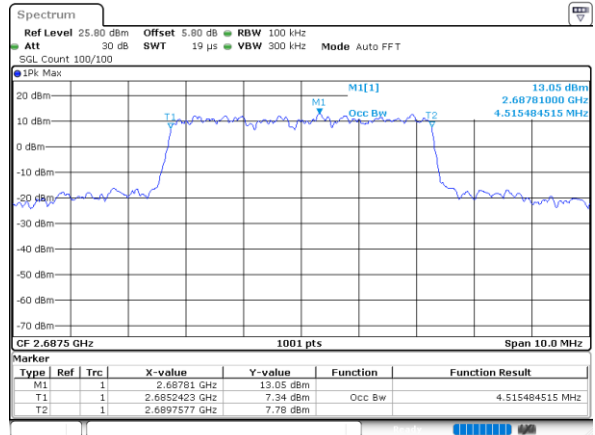
LTE Band 41

Highest Channel / 5MHz / QPSK



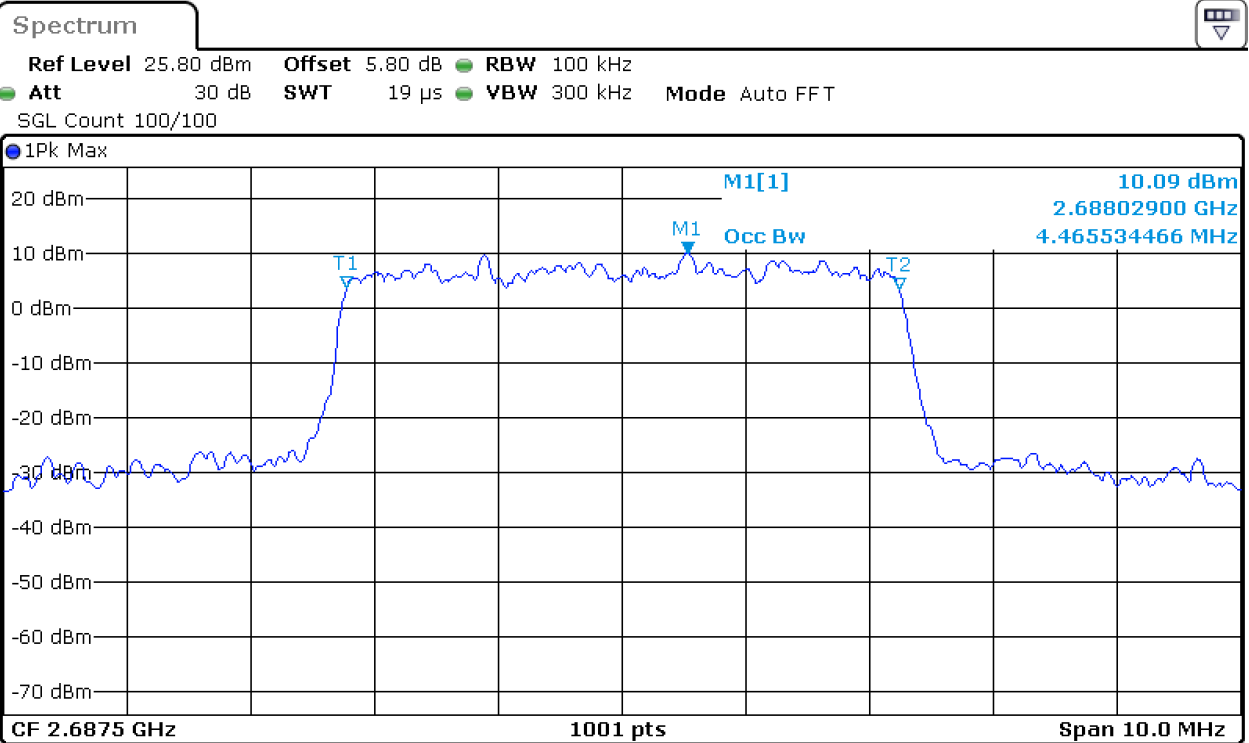
Date: 7.JAN.2022 19:57:40

Highest Channel / 5MHz / 16QAM



Date: 7.JAN.2022 19:58:19

Highest Channel / 5MHz / 64QAM



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.688029 GHz	10.09 dBm		
T1	1		2.6852722 GHz	3.73 dBm	Occ Bw	4.465534466 MHz
T2	1		2.6897378 GHz	3.59 dBm		

Date: 7.JAN.2022 19:58:58

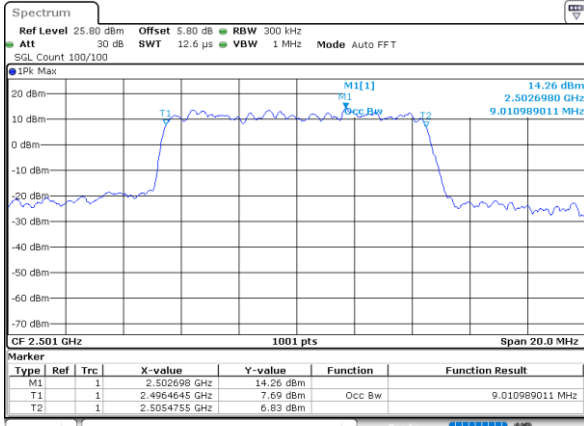


Mode	LTE Band 41 : 99%OBW(MHz)		
BW	10 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	9.01	9.07	9.05
Middle CH	9.03	9.03	8.99
Highest CH	9.07	9.09	9.05



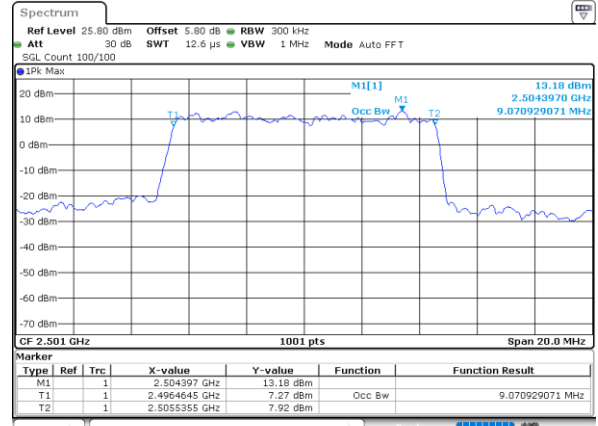
LTE Band 41

Lowest Channel / 10MHz / QPSK



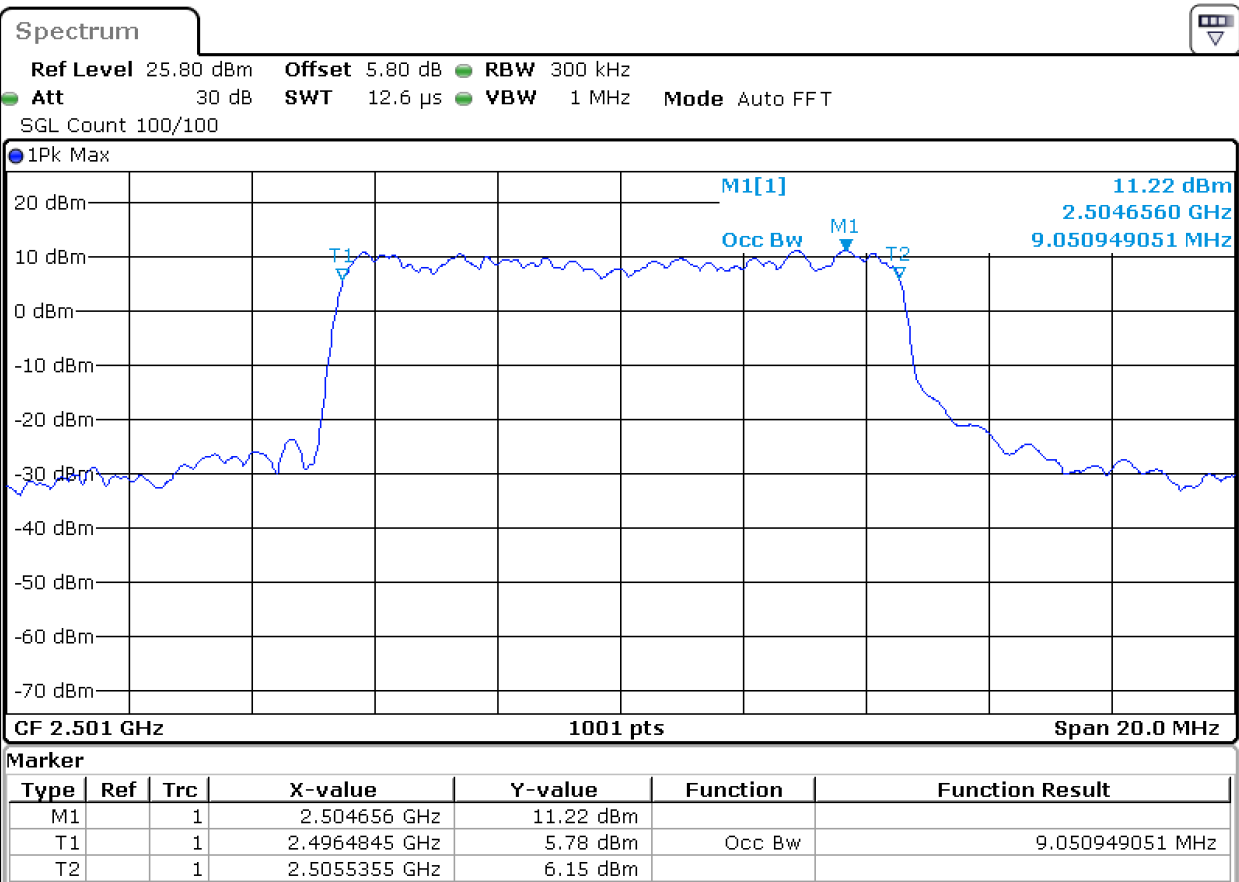
Date: 7.JAN.2022 19:59:38

Lowest Channel / 10MHz / 16QAM



Date: 7.JAN.2022 20:00:17

Lowest Channel / 10MHz / 64QAM

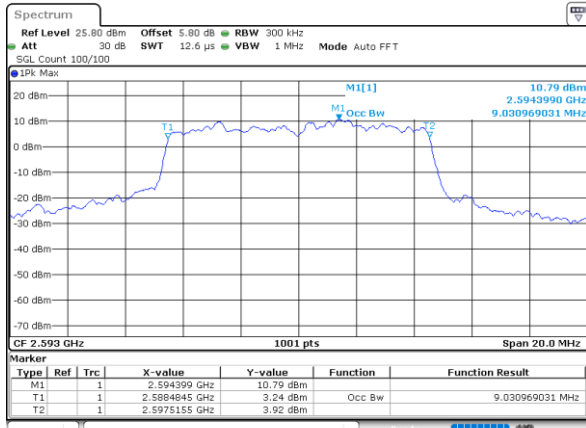


Date: 7.JAN.2022 20:00:56



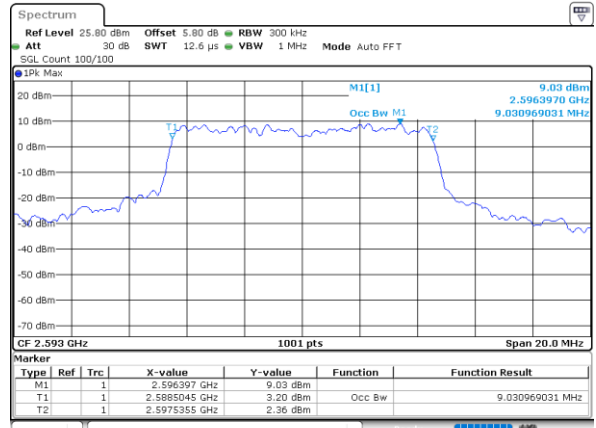
LTE Band 41

Middle Channel / 10MHz / QPSK



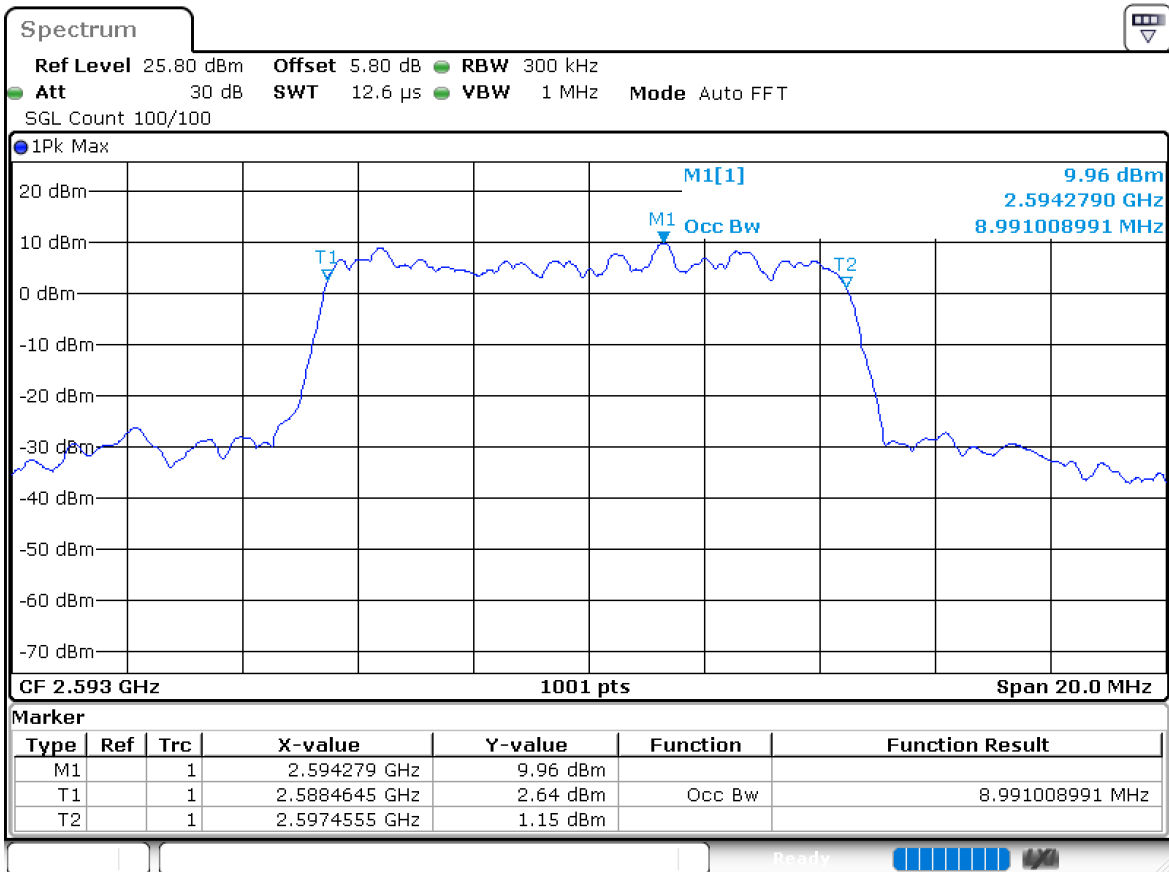
Date: 7.JAN.2022 20:01:35

Middle Channel / 10MHz / 16QAM



Date: 7.JAN.2022 20:02:15

Middle Channel / 10MHz / 64QAM

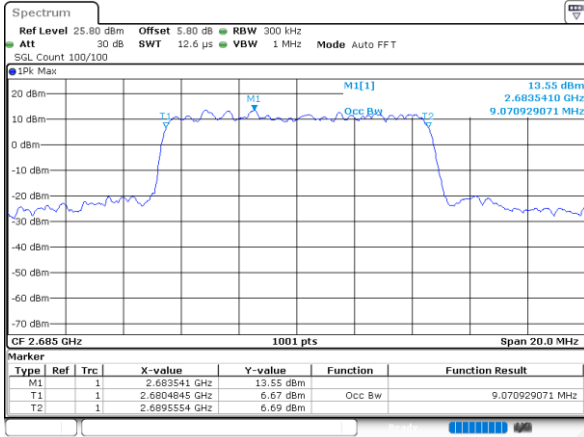


Date: 7.JAN.2022 20:02:55



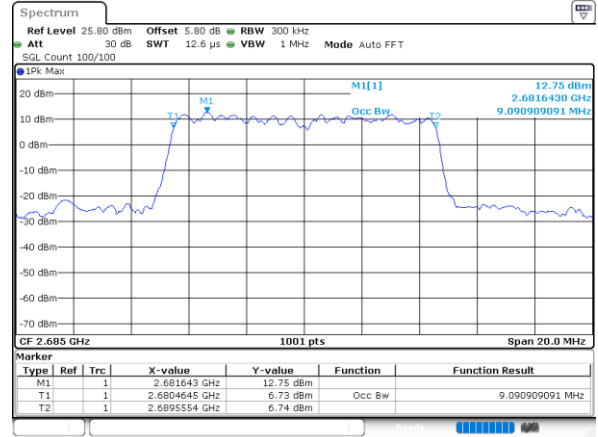
LTE Band 41

Highest Channel / 10MHz / QPSK



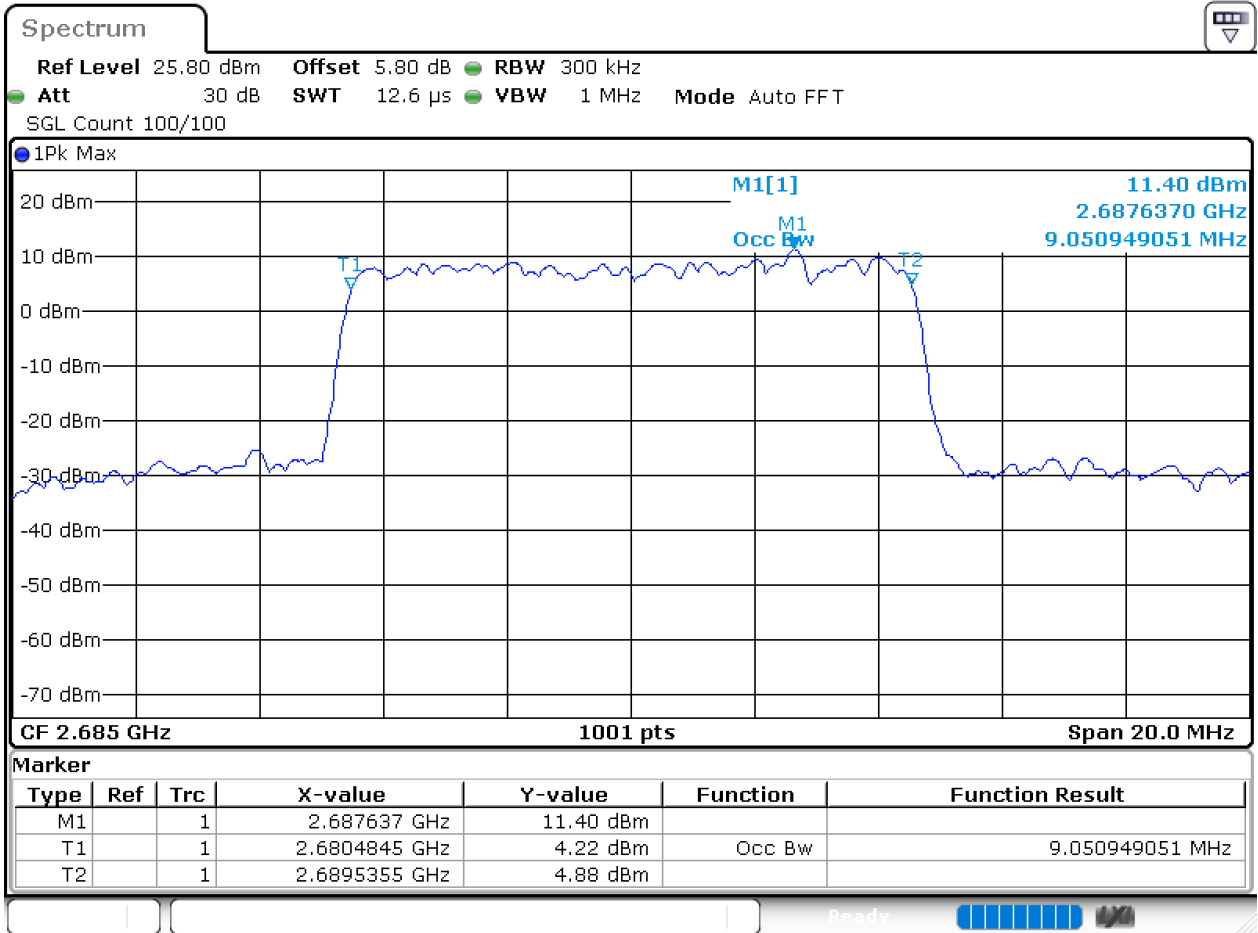
Date: 7.JAN.2022 20:03:14

Highest Channel / 10MHz / 16QAM



Date: 7.JAN.2022 20:04:13

Highest Channel / 10MHz / 64QAM



Date: 7.JAN.2022 20:04:53

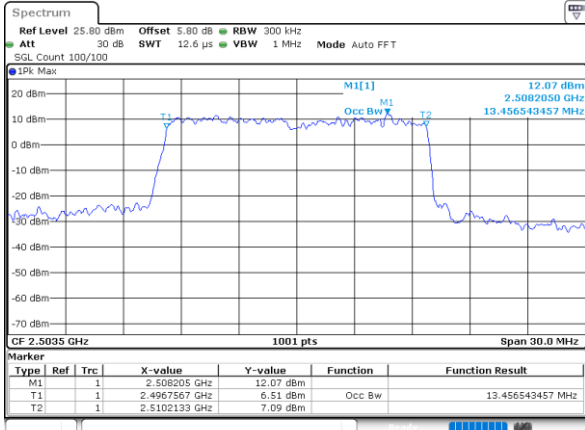


Mode	LTE Band 41 : 99%OBW(MHz)		
BW	15 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	13.46	13.43	13.40
Middle CH	13.58	13.49	13.43
Highest CH	13.55	13.49	13.46



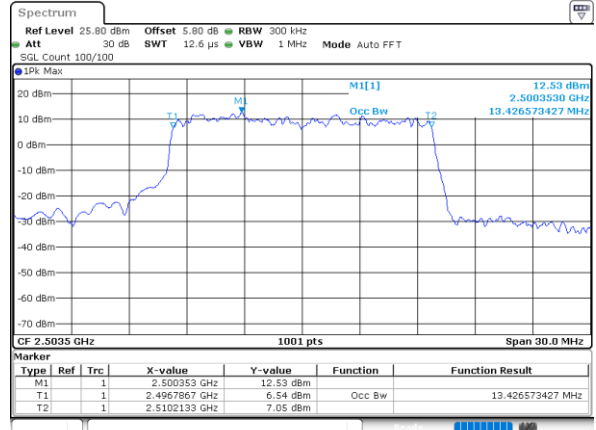
LTE Band 41

Lowest Channel / 15MHz / QPSK



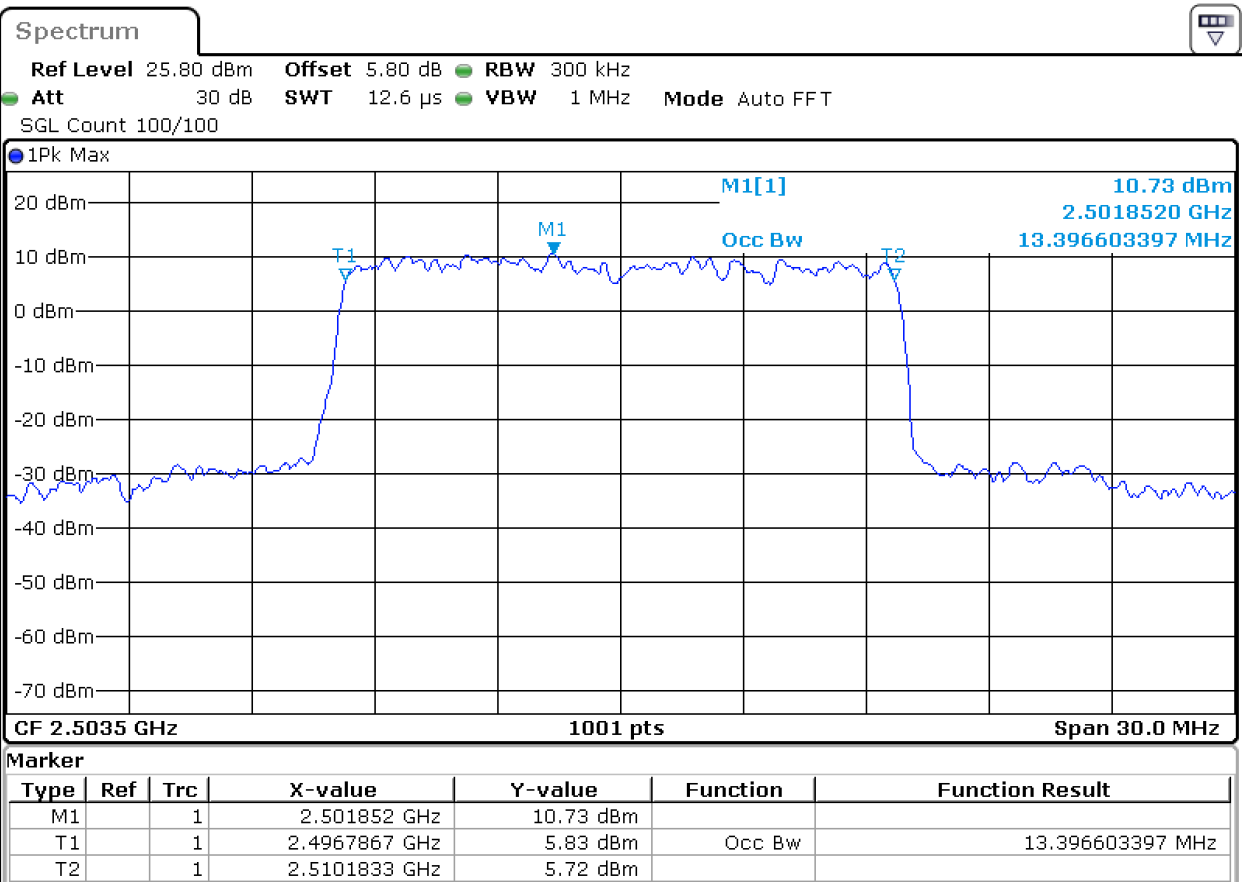
Date: 7.JAN.2022 20:05:33

Lowest Channel / 15MHz / 16QAM



Date: 7.JAN.2022 20:06:13

Lowest Channel / 15MHz / 64QAM

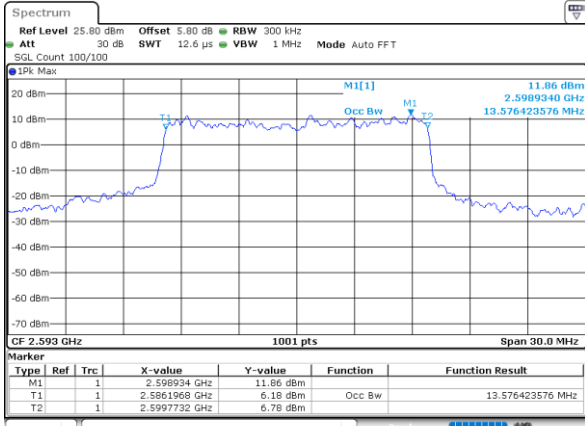


Date: 7.JAN.2022 20:06:52



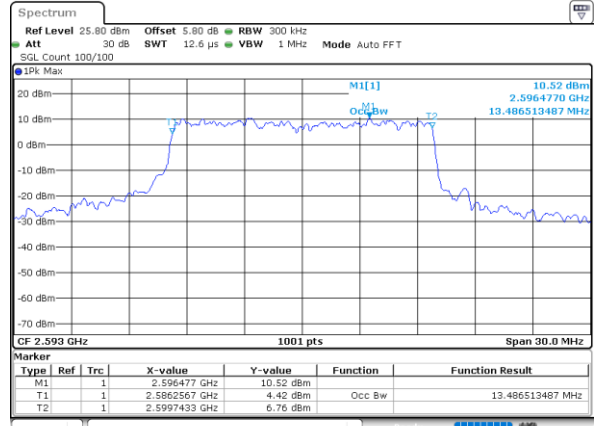
LTE Band 41

Middle Channel / 15MHz / QPSK



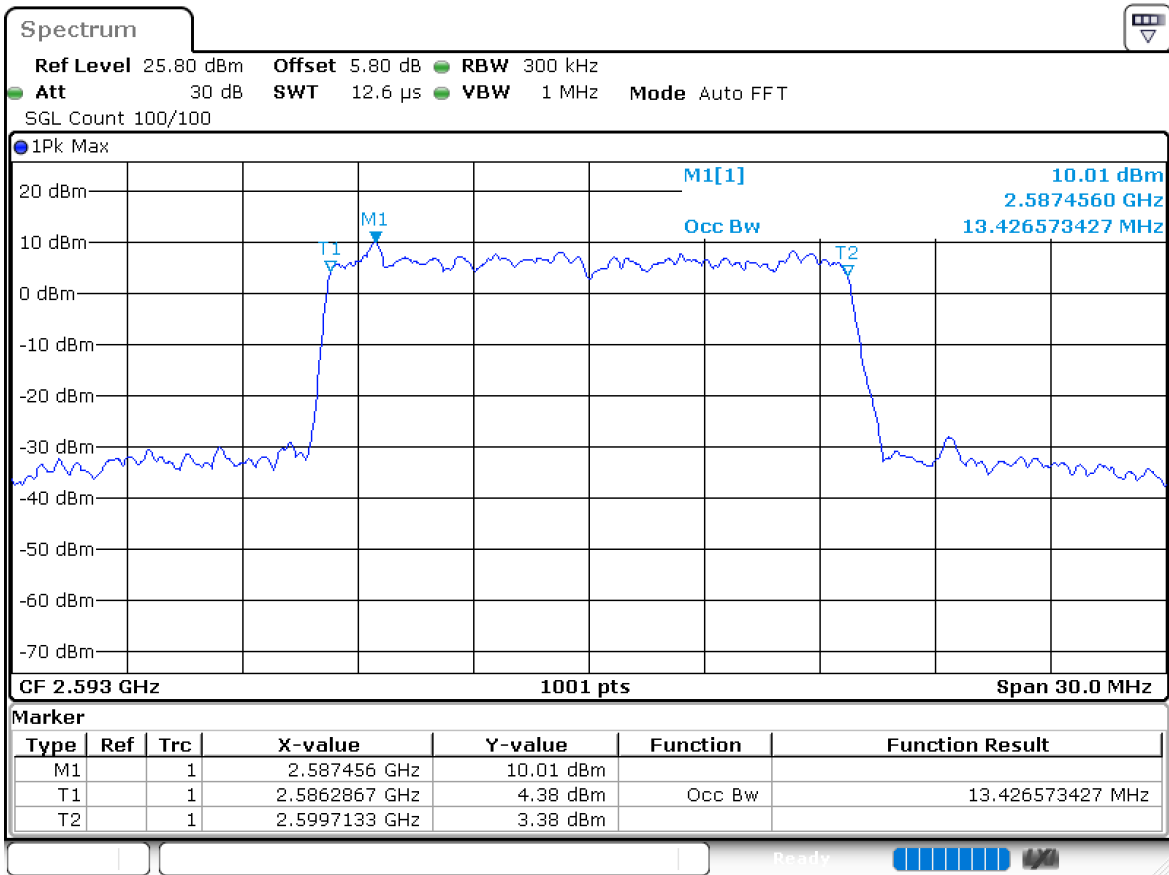
Date: 7.JAN.2022 20:07:30

Middle Channel / 15MHz / 16QAM



Date: 7.JAN.2022 20:08:09

Middle Channel / 15MHz / 64QAM

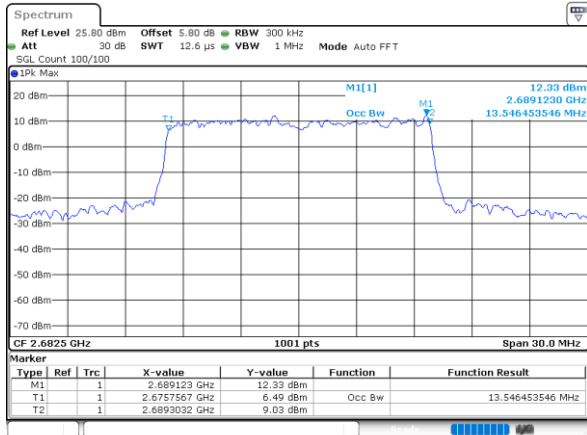


Date: 7.JAN.2022 20:08:48



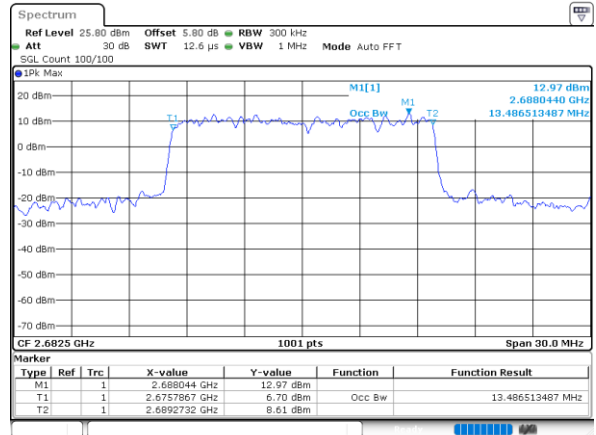
LTE Band 41

Highest Channel / 15MHz / QPSK



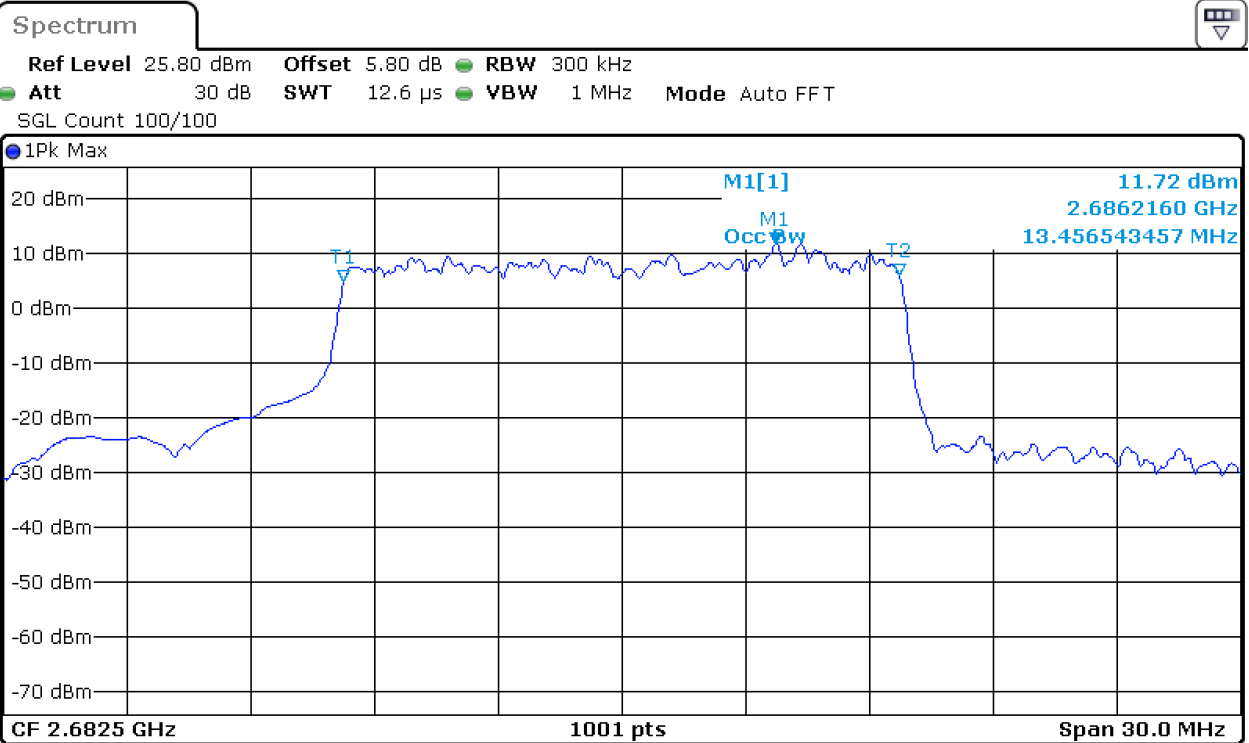
Date: 7.JAN.2022 20:09:26

Highest Channel / 15MHz / 16QAM



Date: 7.JAN.2022 20:10:05

Highest Channel / 15MHz / 64QAM



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.686216 GHz	11.72 dBm		
T1	1		2.6757567 GHz	4.90 dBm		
T2	1		2.6892133 GHz	5.95 dBm	Occ Bw	13.456543457 MHz

Date: 7.JAN.2022 20:10:44

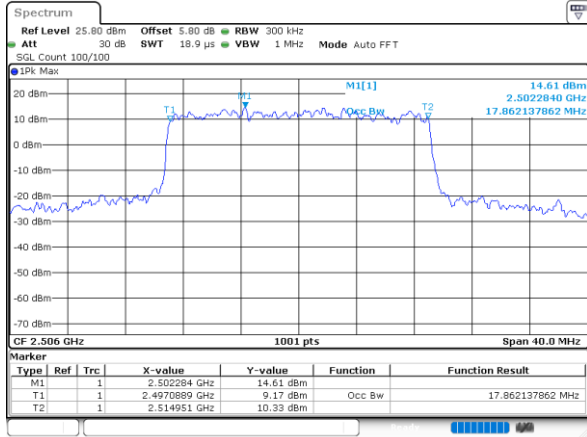


Mode	LTE Band 41 : 99%OBW(MHz)		
BW	20 MHz		
Mod.	QPSK	16QAM	64QAM
Lowest CH	17.86	17.94	17.90
Middle CH	17.90	17.86	17.98
Highest CH	17.86	17.94	17.90



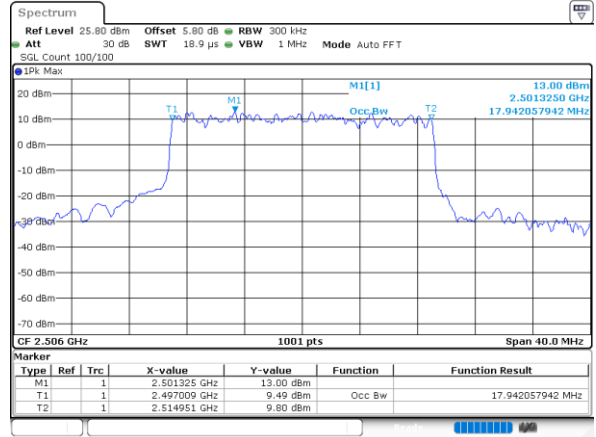
LTE Band 41

Lowest Channel / 20MHz / QPSK



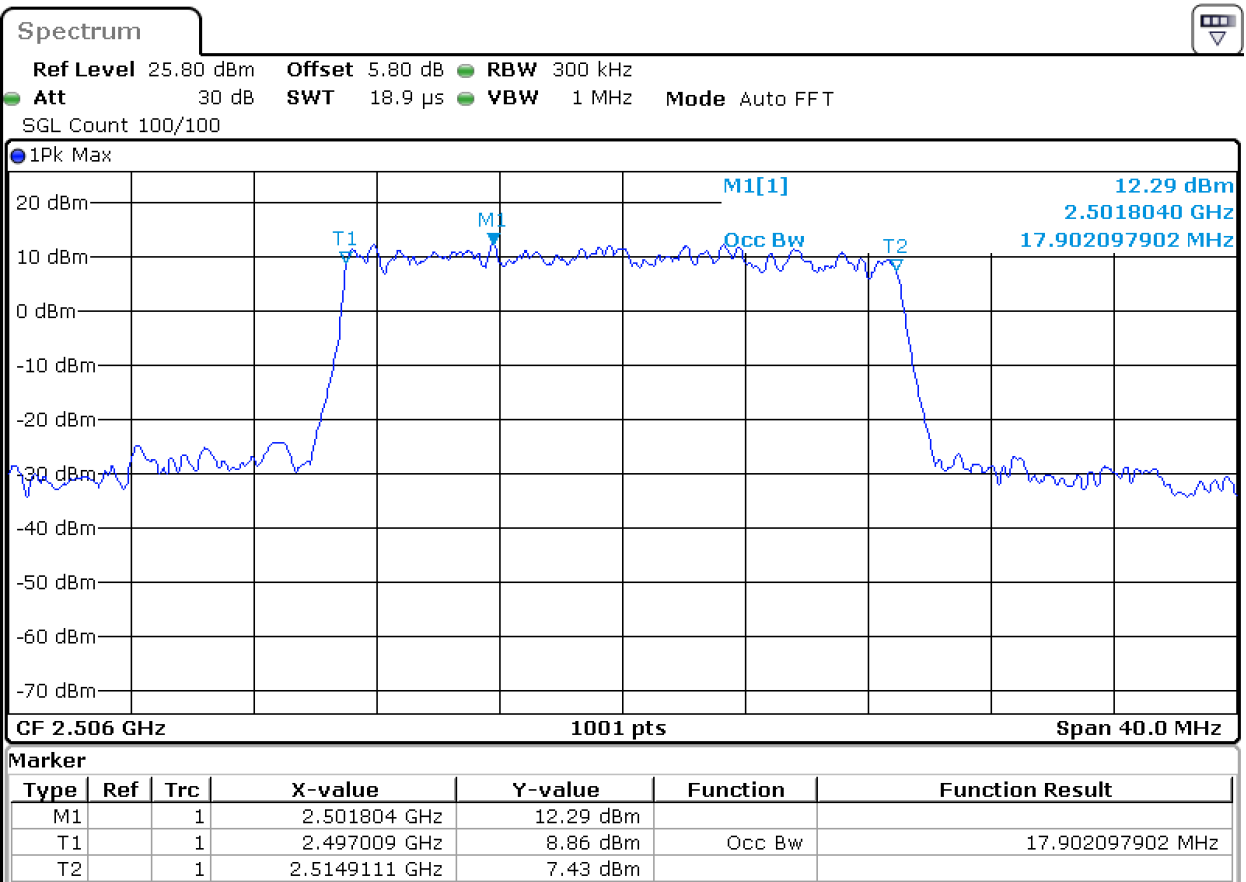
Date: 7.JAN.2022 20:11:25

Lowest Channel / 20MHz / 16QAM



Date: 7.JAN.2022 20:12:04

Lowest Channel / 20MHz / 64QAM

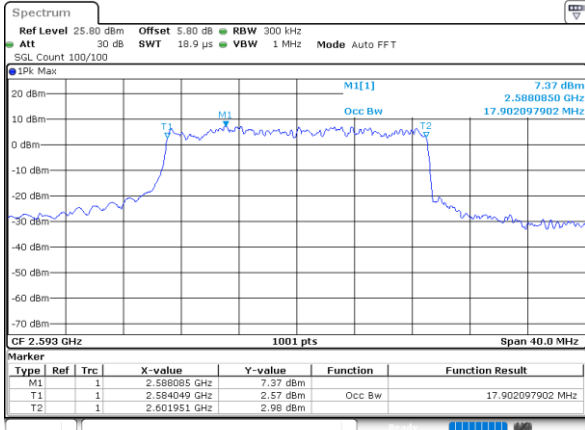


Date: 7.JAN.2022 20:12:43



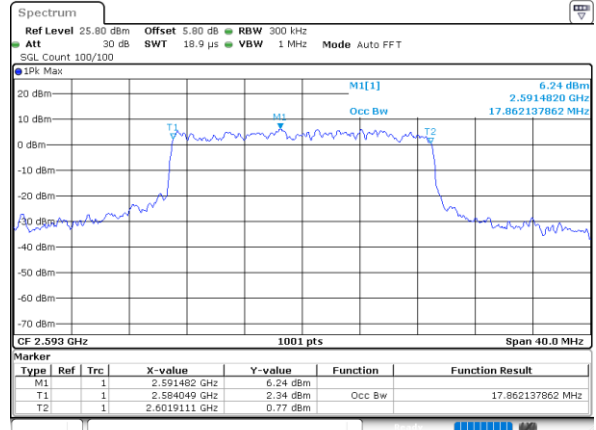
LTE Band 41

Middle Channel / 20MHz / QPSK



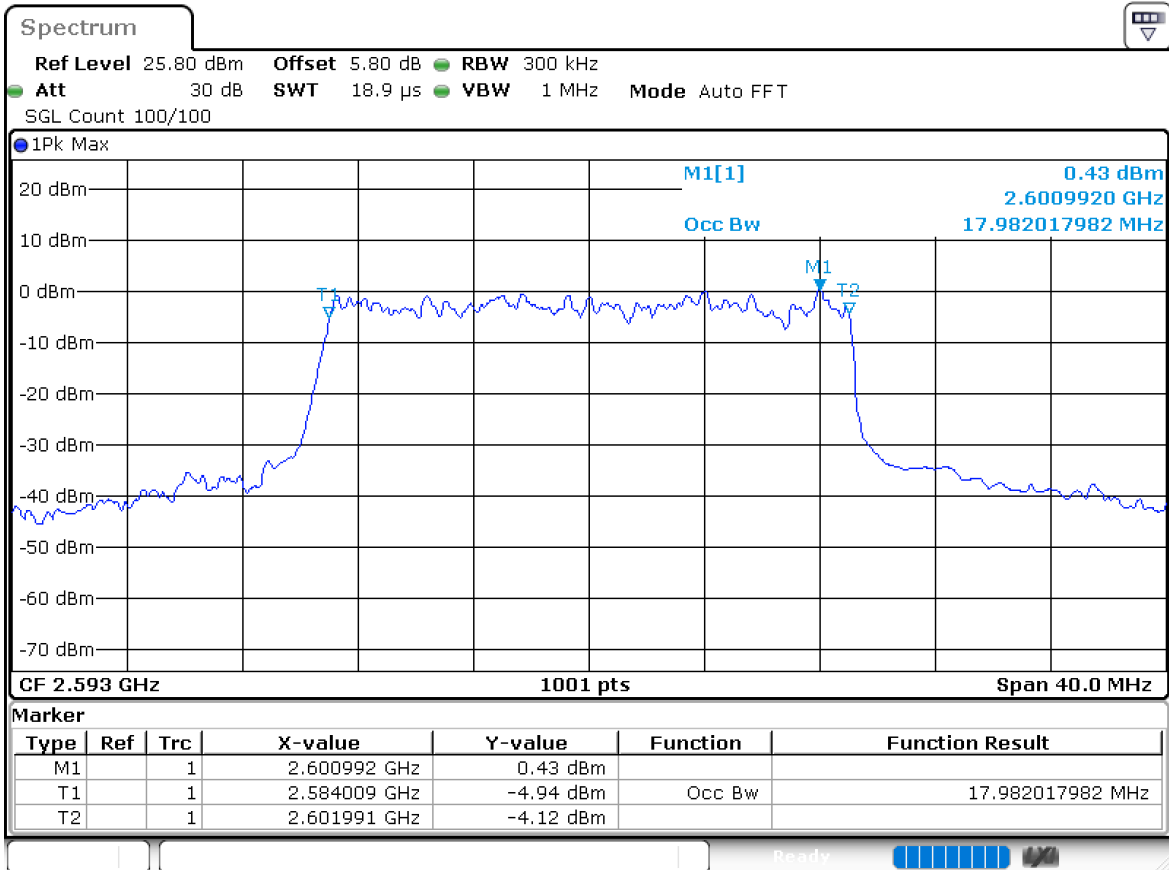
Date: 7.JAN.2022 20:13:22

Middle Channel / 20MHz / 16QAM



Date: 7.JAN.2022 20:14:01

Middle Channel / 20MHz / 64QAM

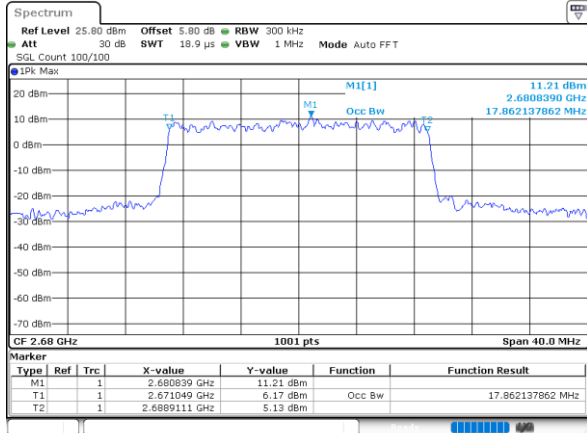


Date: 7.JAN.2022 20:14:39



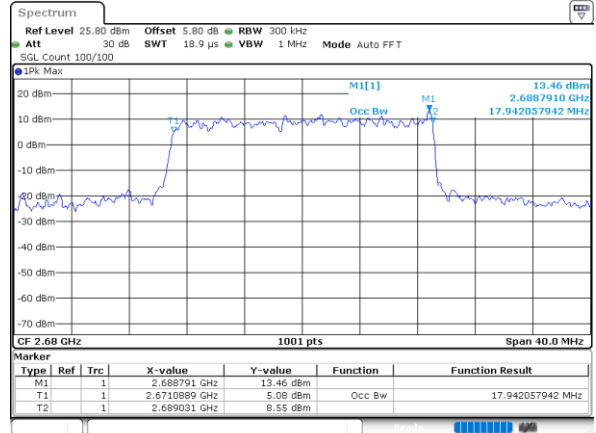
LTE Band 41

Highest Channel / 20MHz / QPSK



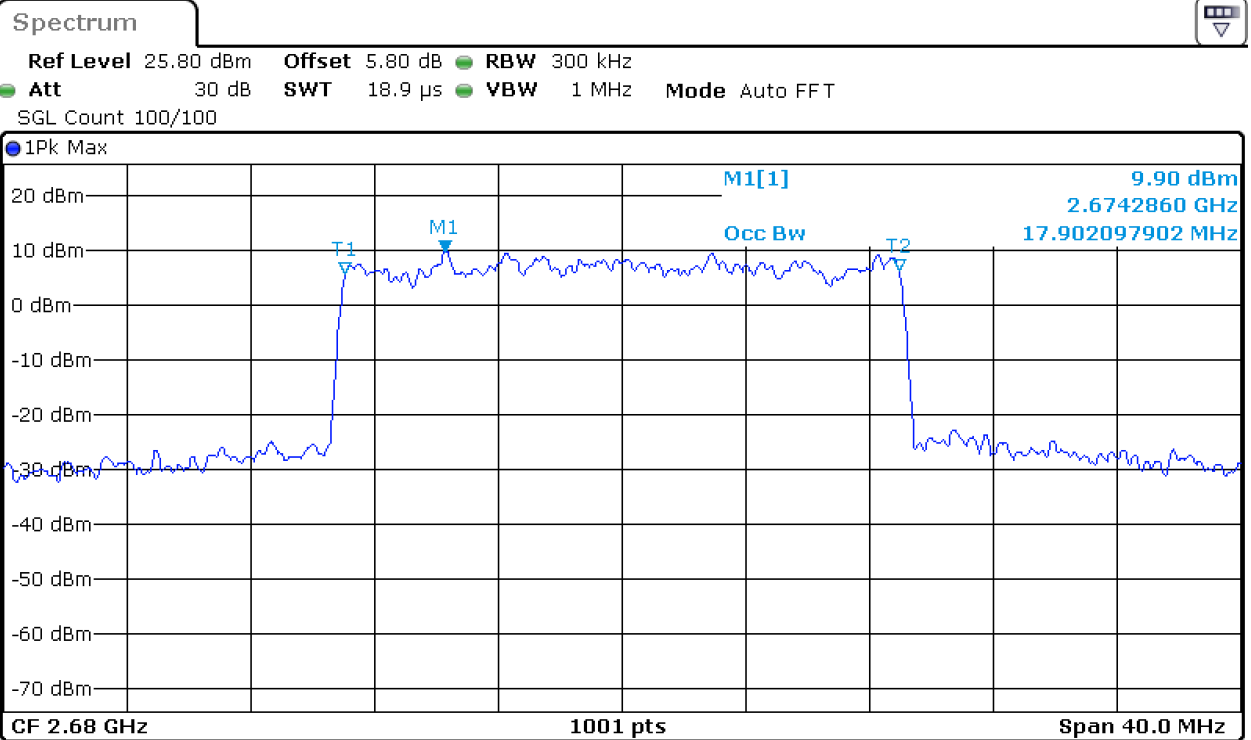
Date: 7.JAN.2022 20:15:18

Highest Channel / 20MHz / 16QAM



Date: 7.JAN.2022 20:15:57

Highest Channel / 20MHz / 64QAM



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.674286 GHz	9.90 dBm		
T1	1		2.671049 GHz	5.75 dBm	Occ Bw	17.902097902 MHz
T2	1		2.688951 GHz	6.32 dBm		

Date: 7.JAN.2022 20:16:36



Conducted Band Edge

