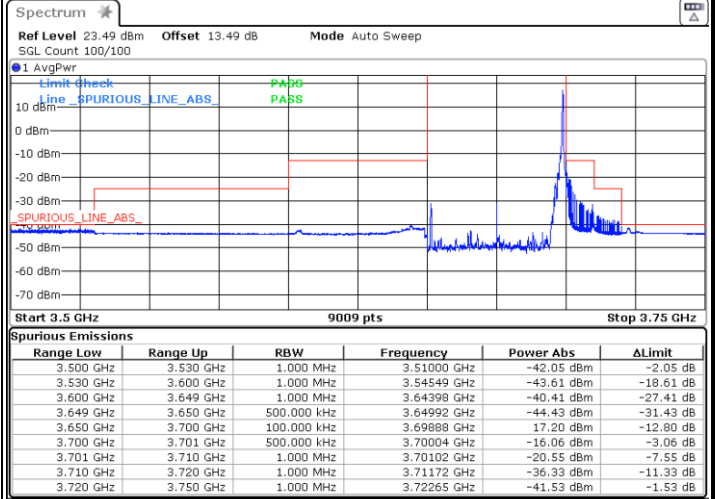
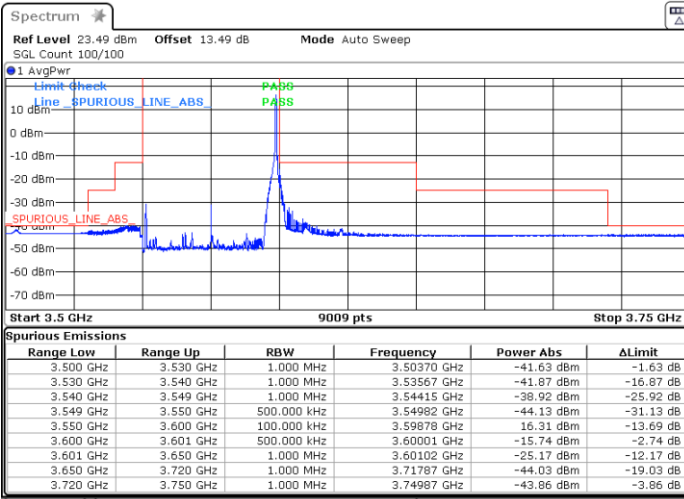




Lowest Band Edge / 1 RB MAX

Highest Band Edge / 1 RB MAX

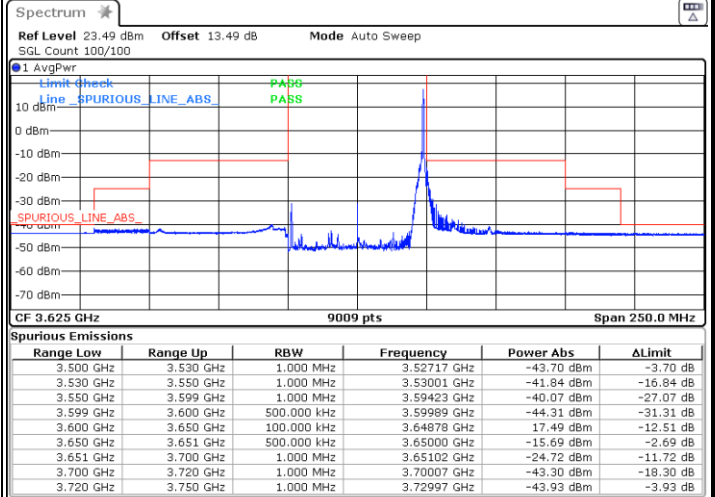
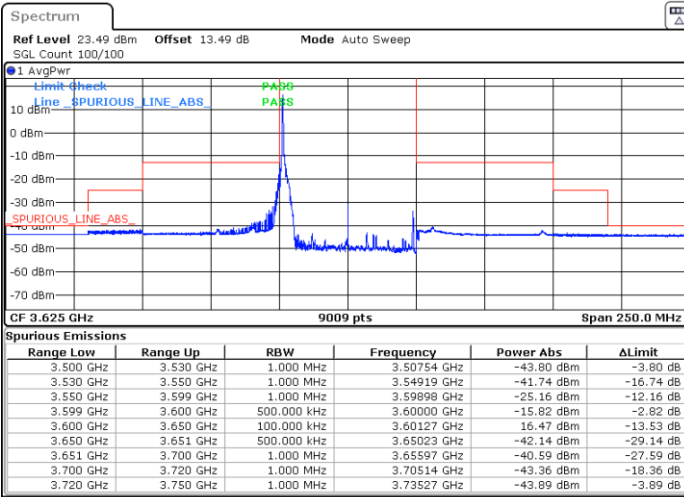


Date: 5.FEB.2023 10:52:16

Date: 5.FEB.2023 11:34:03

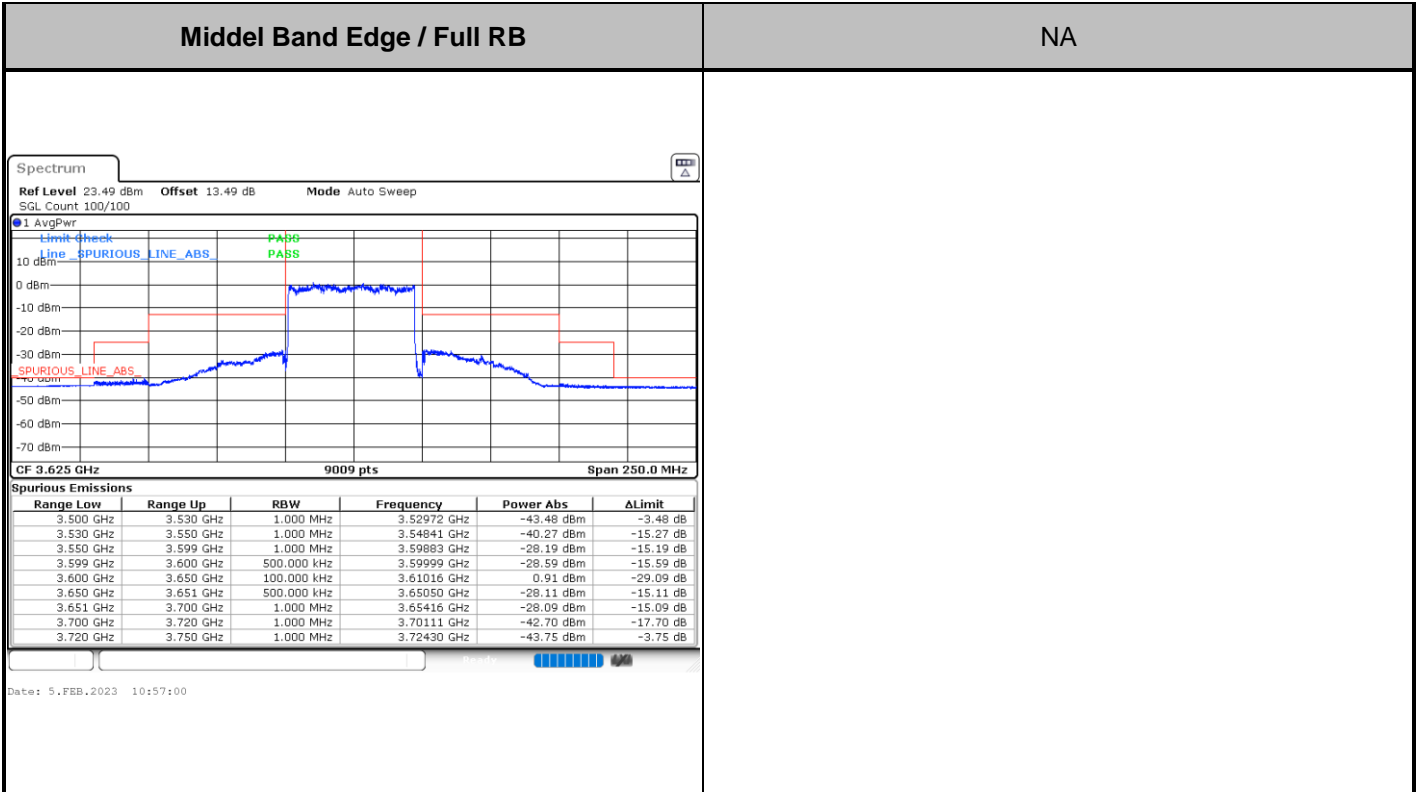
Middel Band Edge / 1 RB 0

Middel Band Edge / 1 RB MAX



Date: 5.FEB.2023 11:12:01

Date: 5.FEB.2023 11:06:00

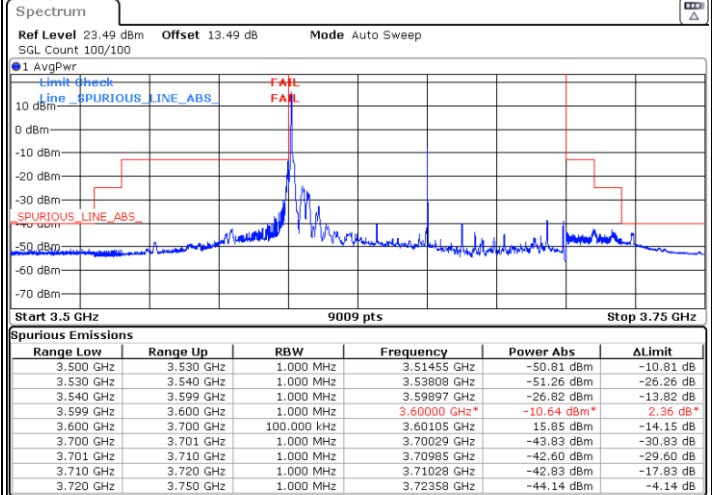
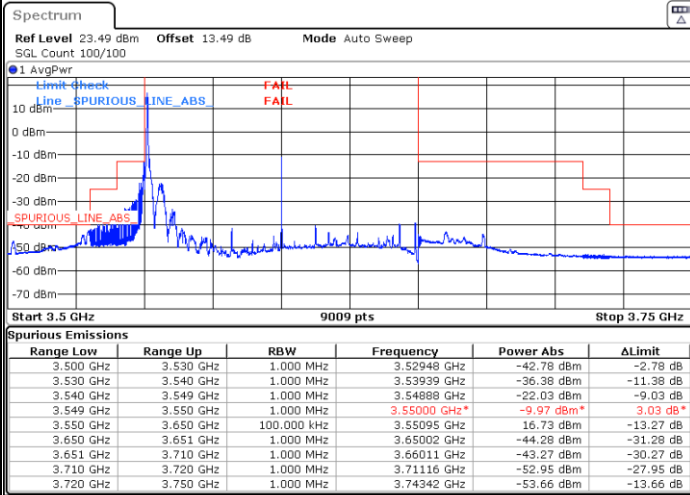




FR1 n78 / 100MHz / DFT-S OFDM BPSK

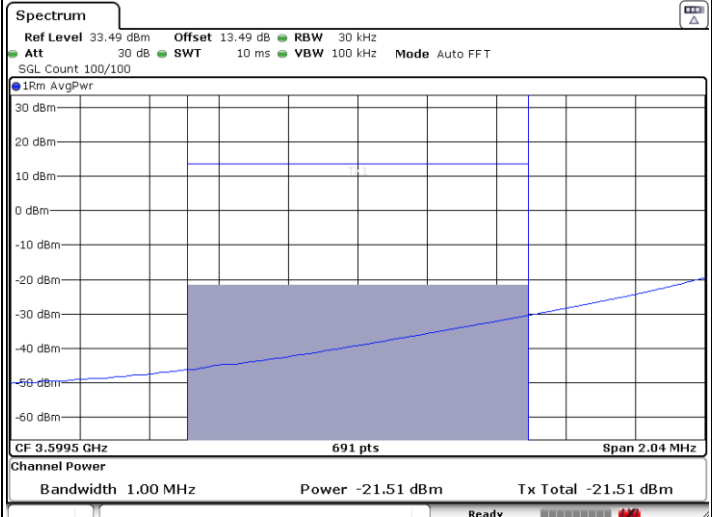
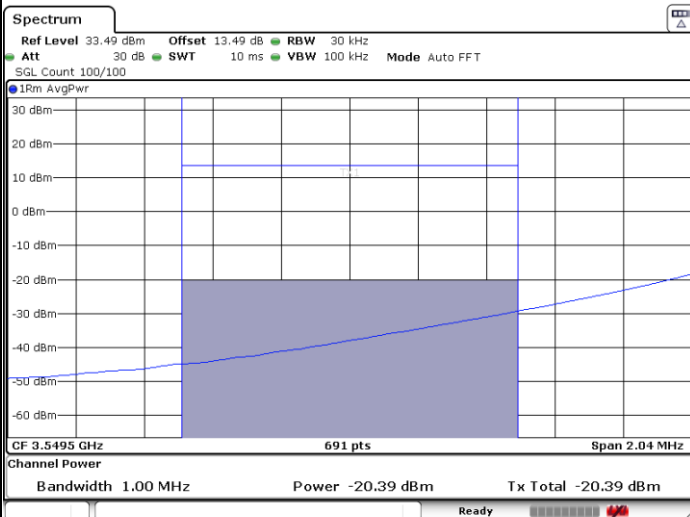
Lowest Band Edge / 1 RB 0

Highest Band Edge / 1 RB 0



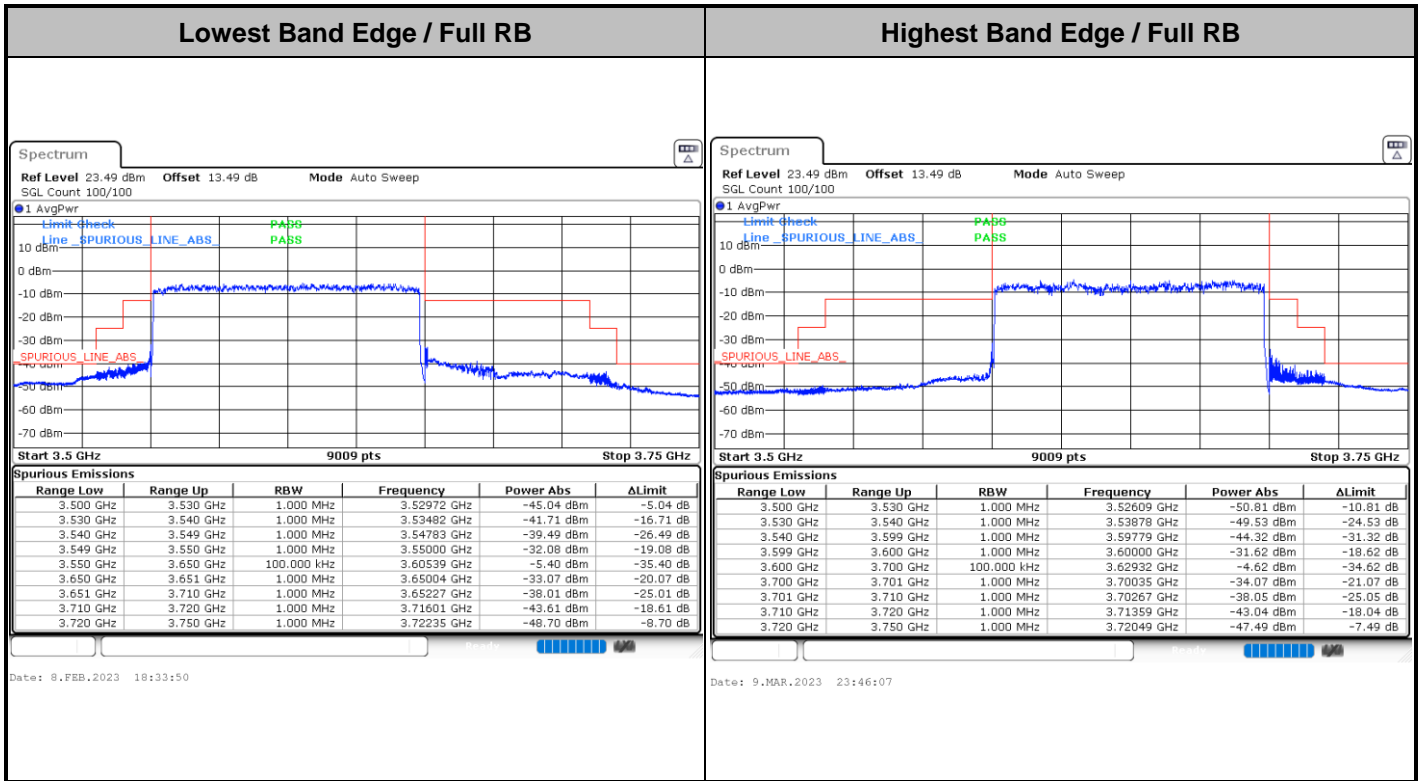
Date: 9.MAR.2023 23:15:44

Date: 9.MAR.2023 23:44:01



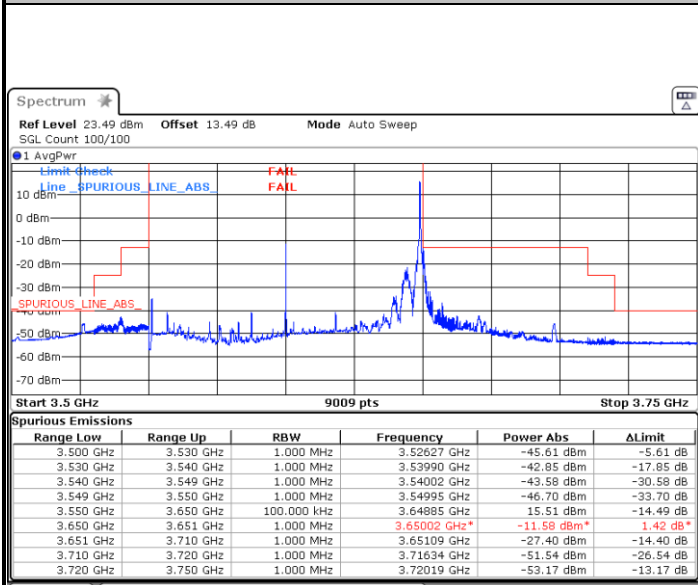
Date: 9.MAR.2023 23:22:39

Date: 10.MAR.2023 01:00:15



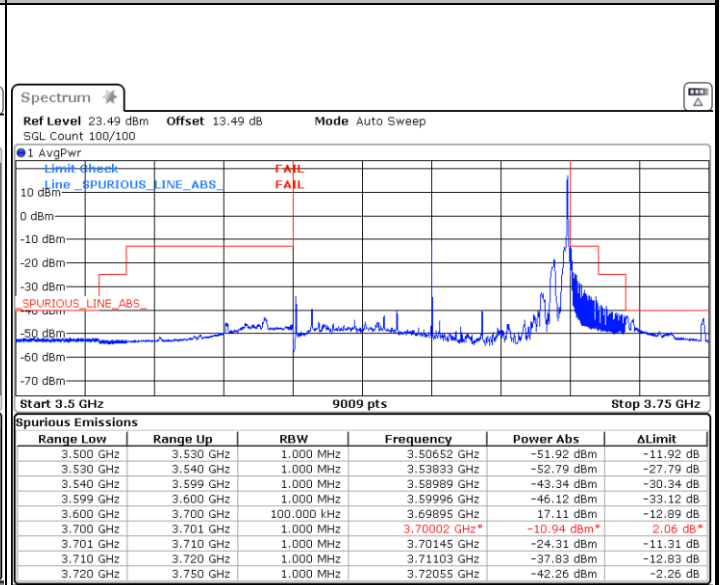


Lowest Band Edge / 1 RB MAX



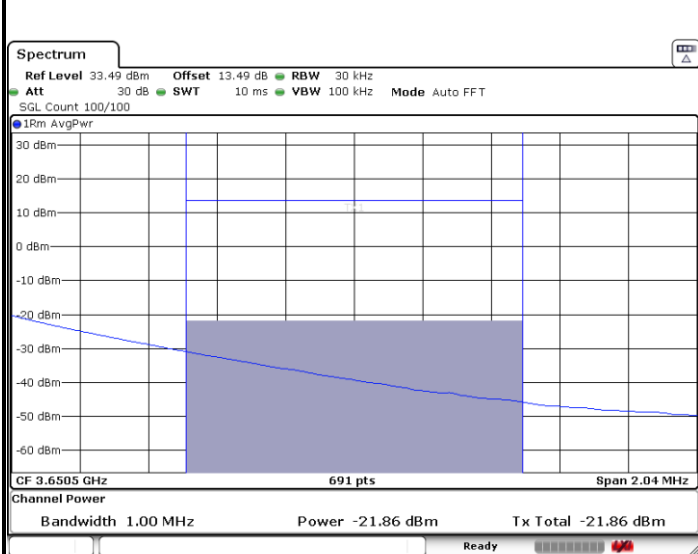
Date: 9.MAR.2023 23:17:52

Highest Band Edge / 1 RB MAX



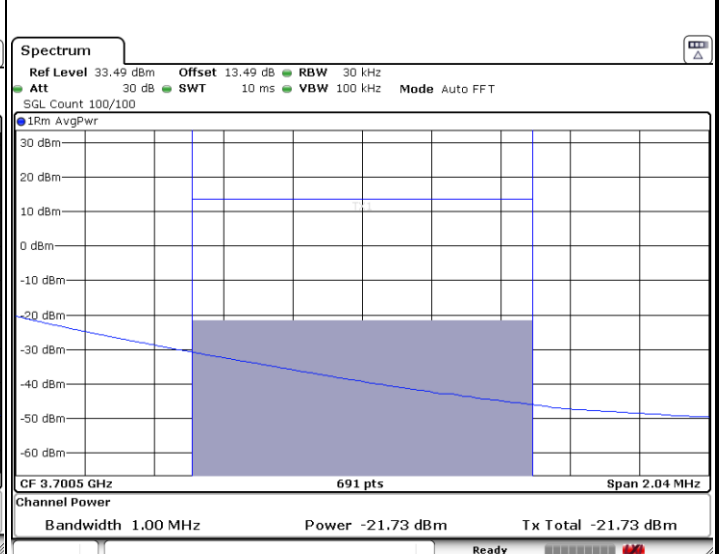
Date: 10.MAR.2023 00:56:55

Channel Power



Date: 9.MAR.2023 23:23:49

Channel Power

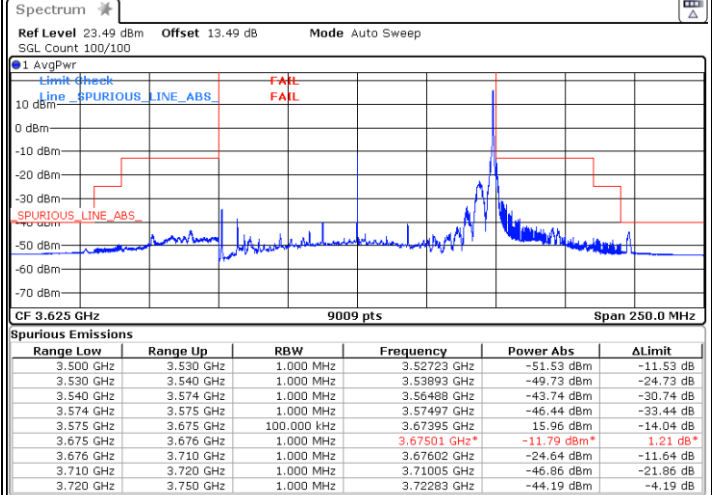
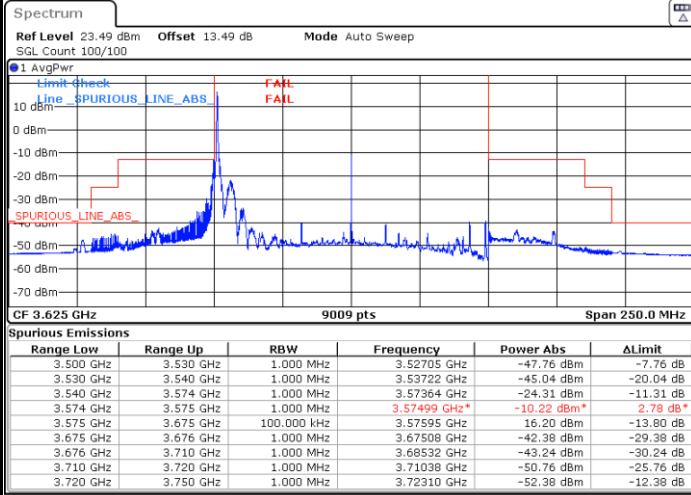


Date: 10.MAR.2023 01:01:27



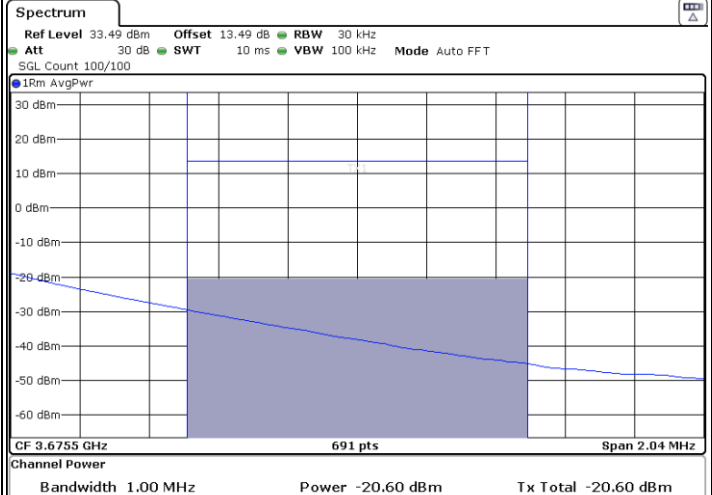
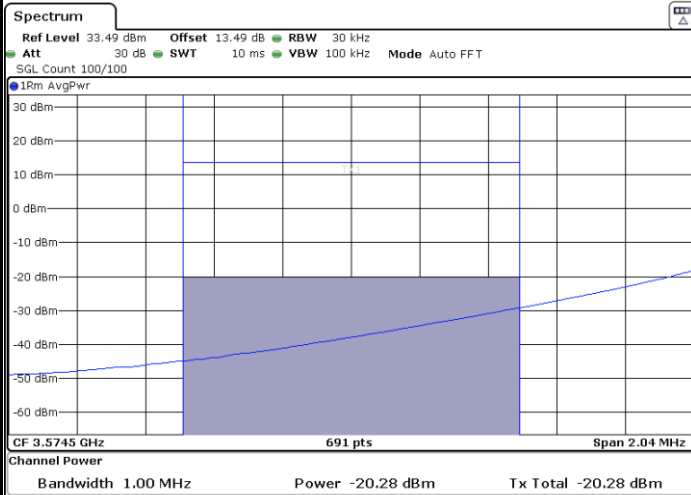
Middel Band Edge / 1 RB 0

Middel Band Edge / 1 RB MAX



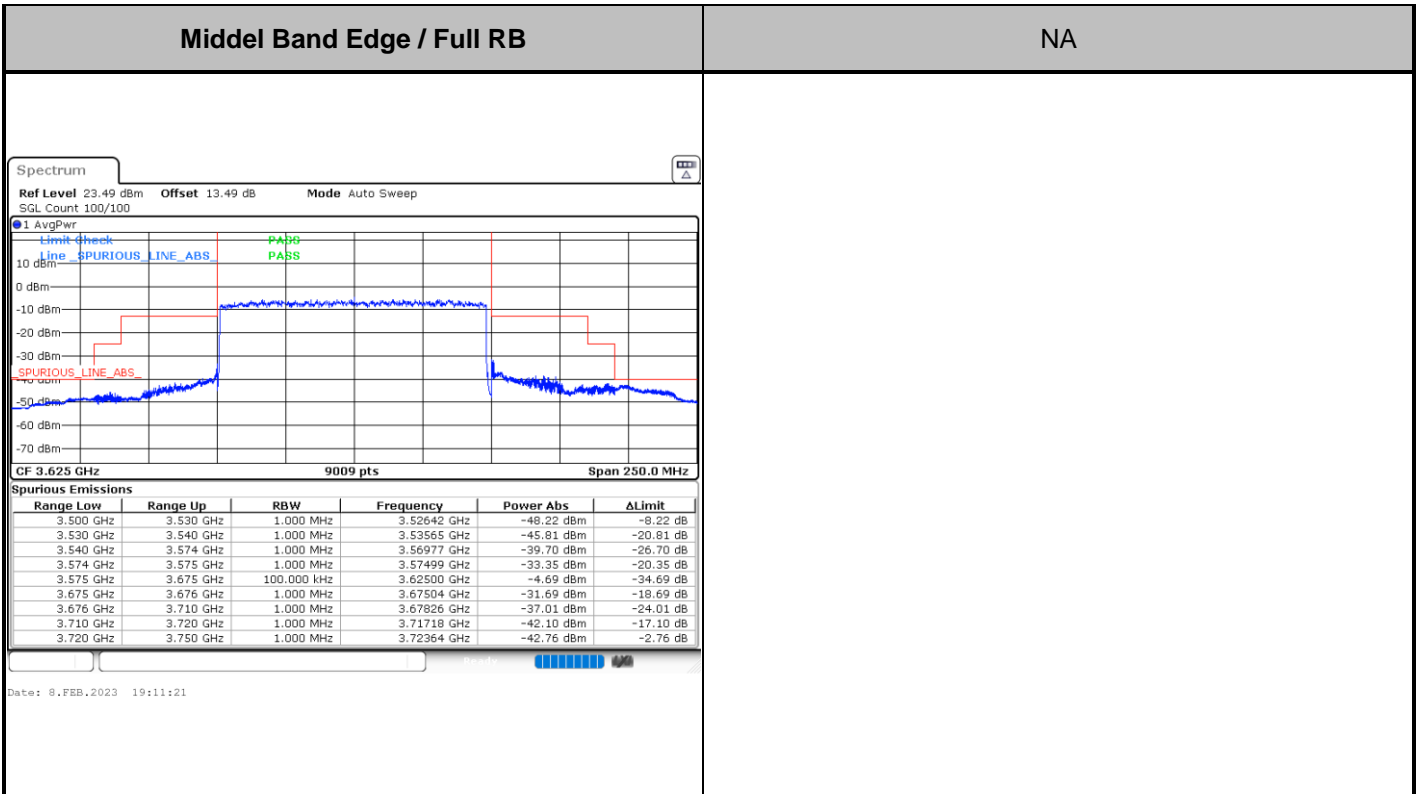
Date: 9.MAR.2023 23:28:44

Date: 9.MAR.2023 23:40:31



Date: 9.MAR.2023 23:37:15

Date: 9.MAR.2023 23:36:37

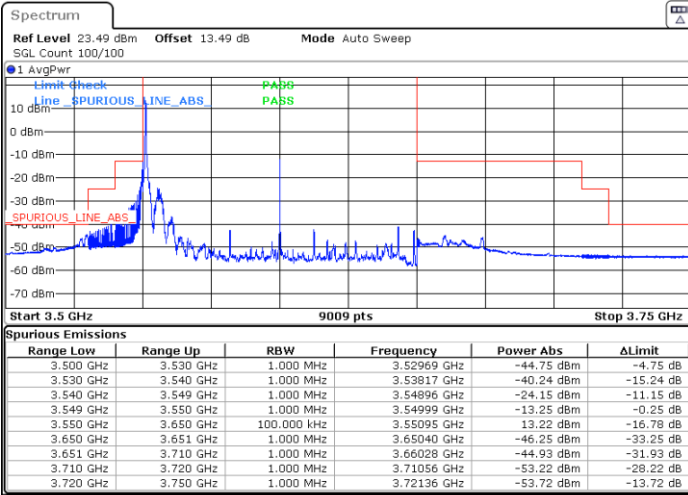




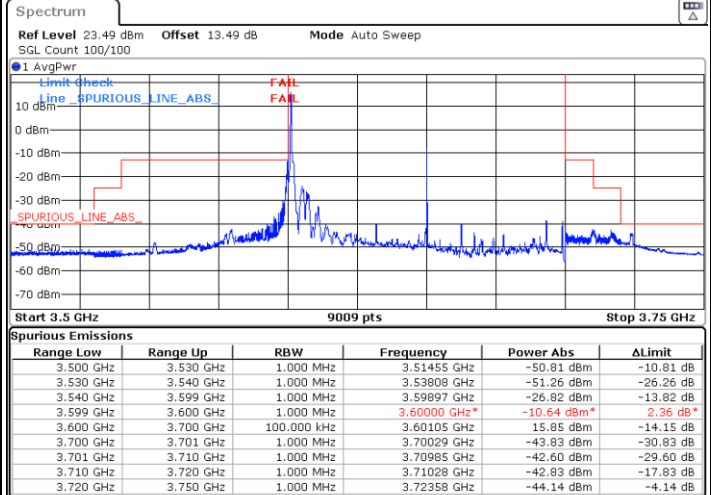
FR1 n78 / 100MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB 0

Highest Band Edge / 1 RB 0

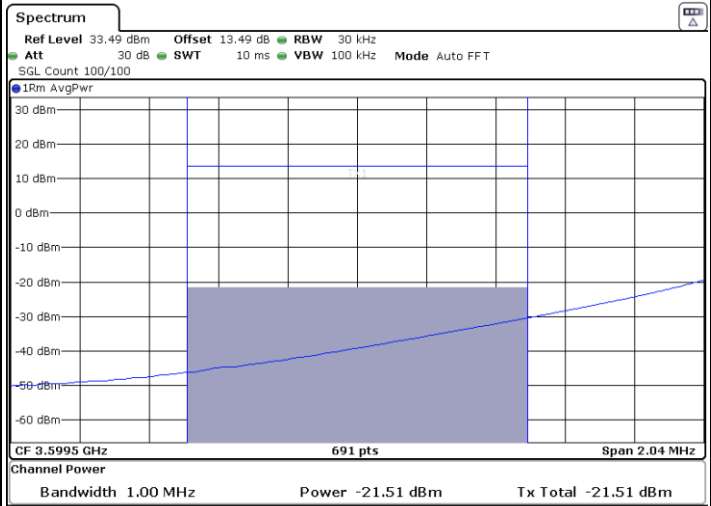


Date: 8.FEB.2023 18:28:59



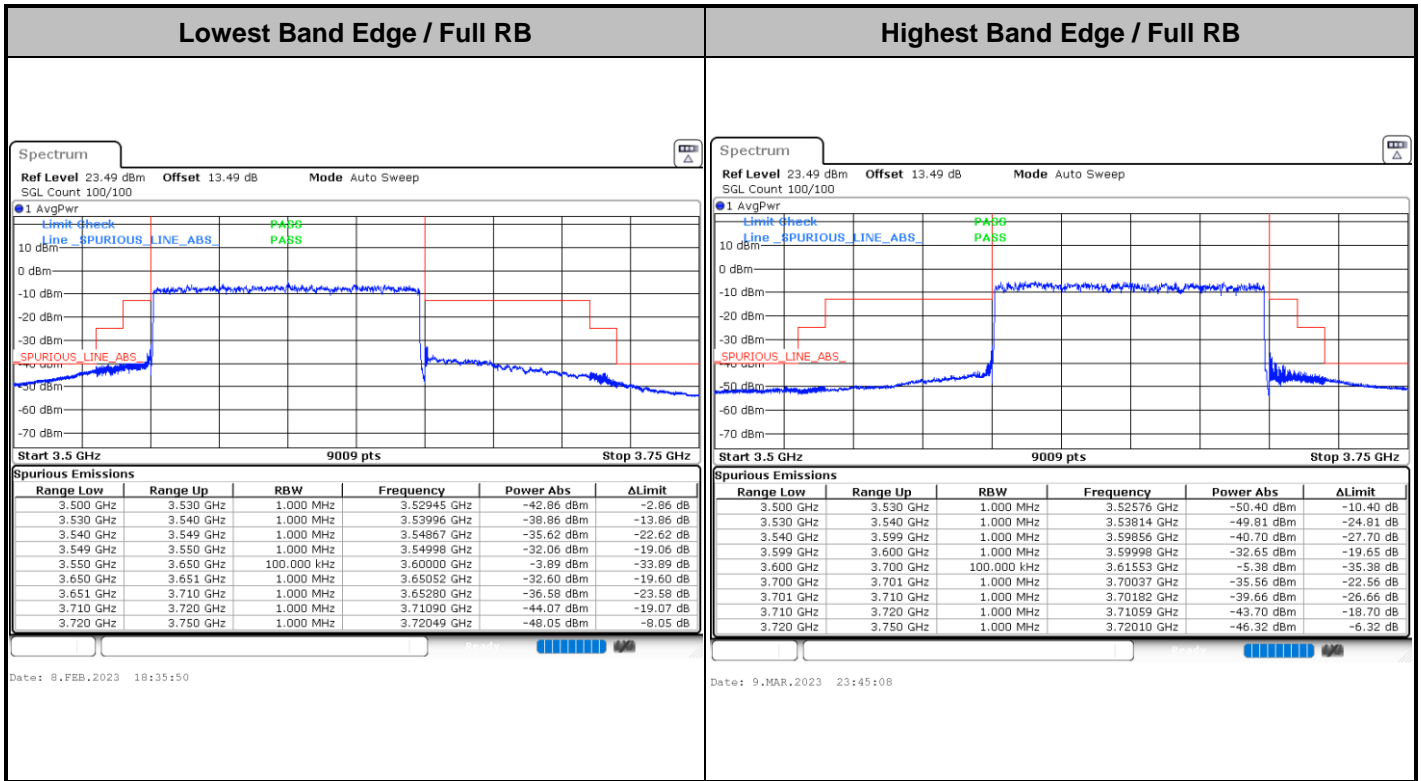
Date: 9.MAR.2023 23:44:01

NA



Date: 10.MAR.2023 01:00:15

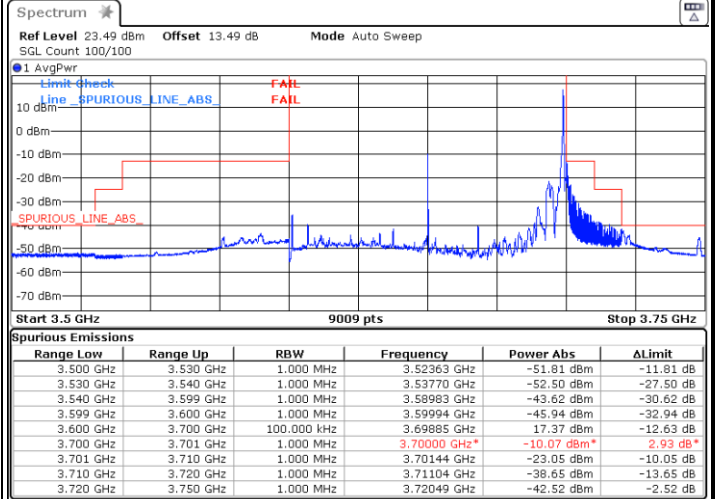
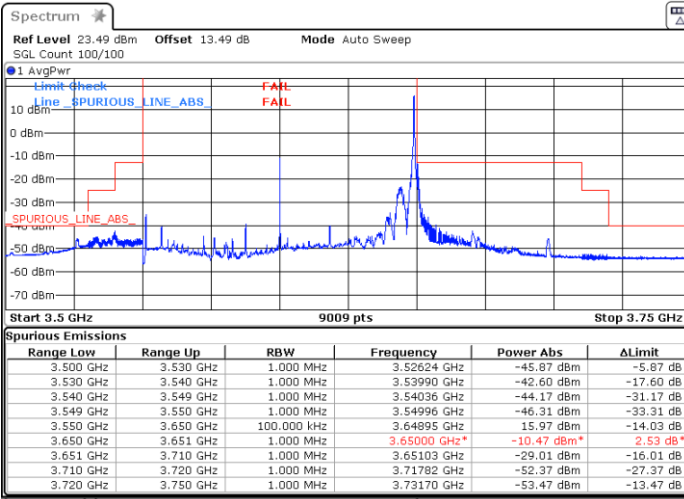






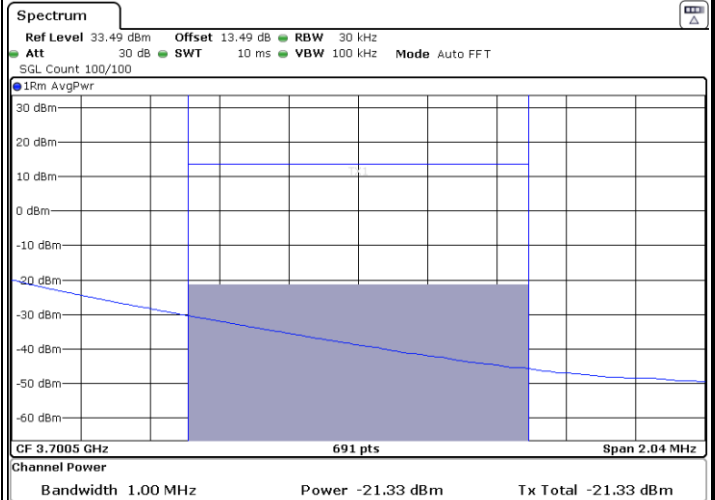
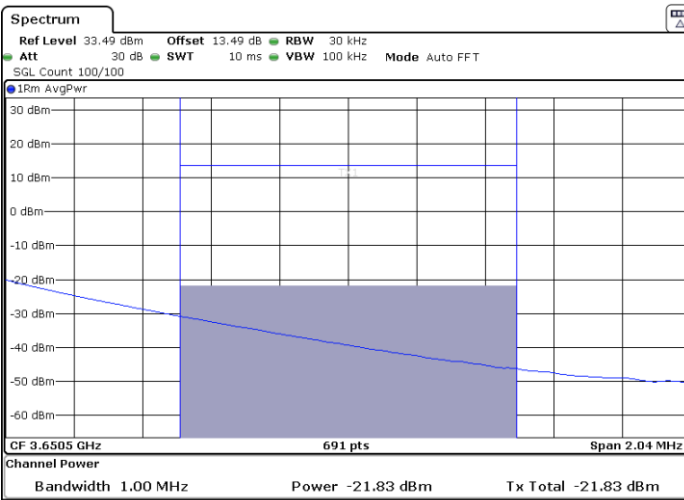
Lowest Band Edge / 1 RB MAX

Highest Band Edge / 1 RB MAX



Date: 9.MAR.2023 23:19:18

Date: 10.MAR.2023 00:59:14



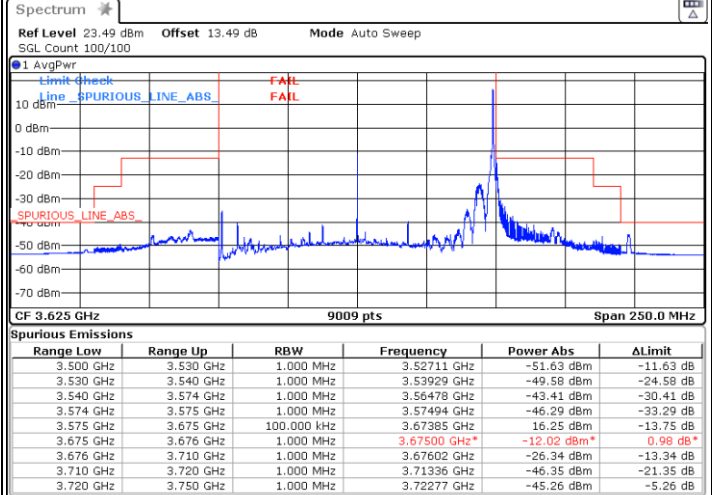
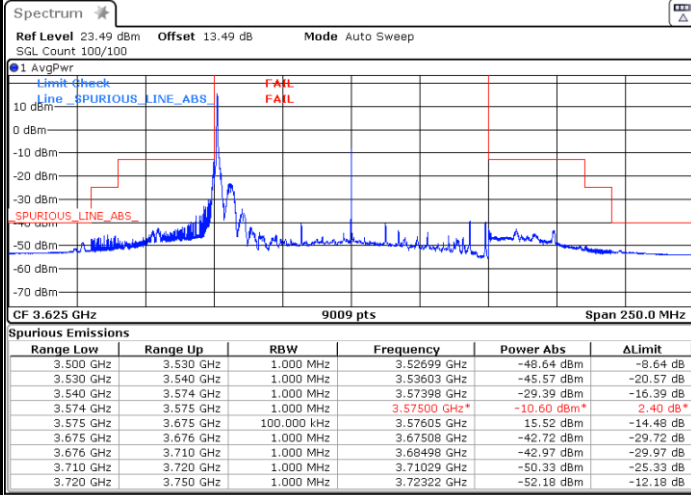
Date: 9.MAR.2023 23:24:36

Date: 10.MAR.2023 01:01:49



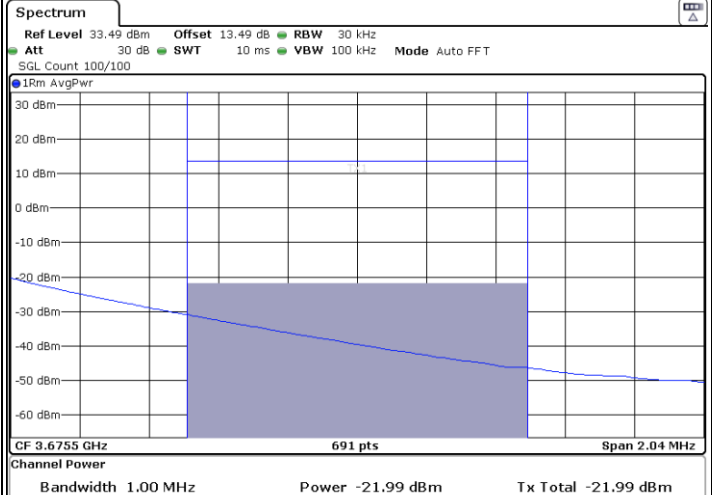
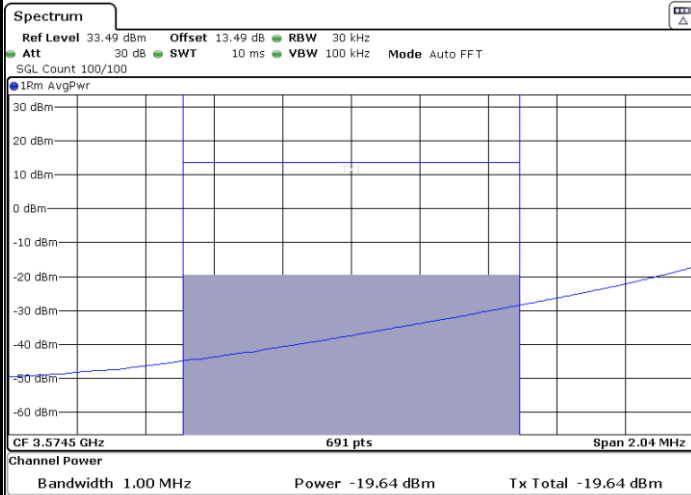
Middel Band Edge / 1 RB 0

Middel Band Edge / 1 RB MAX



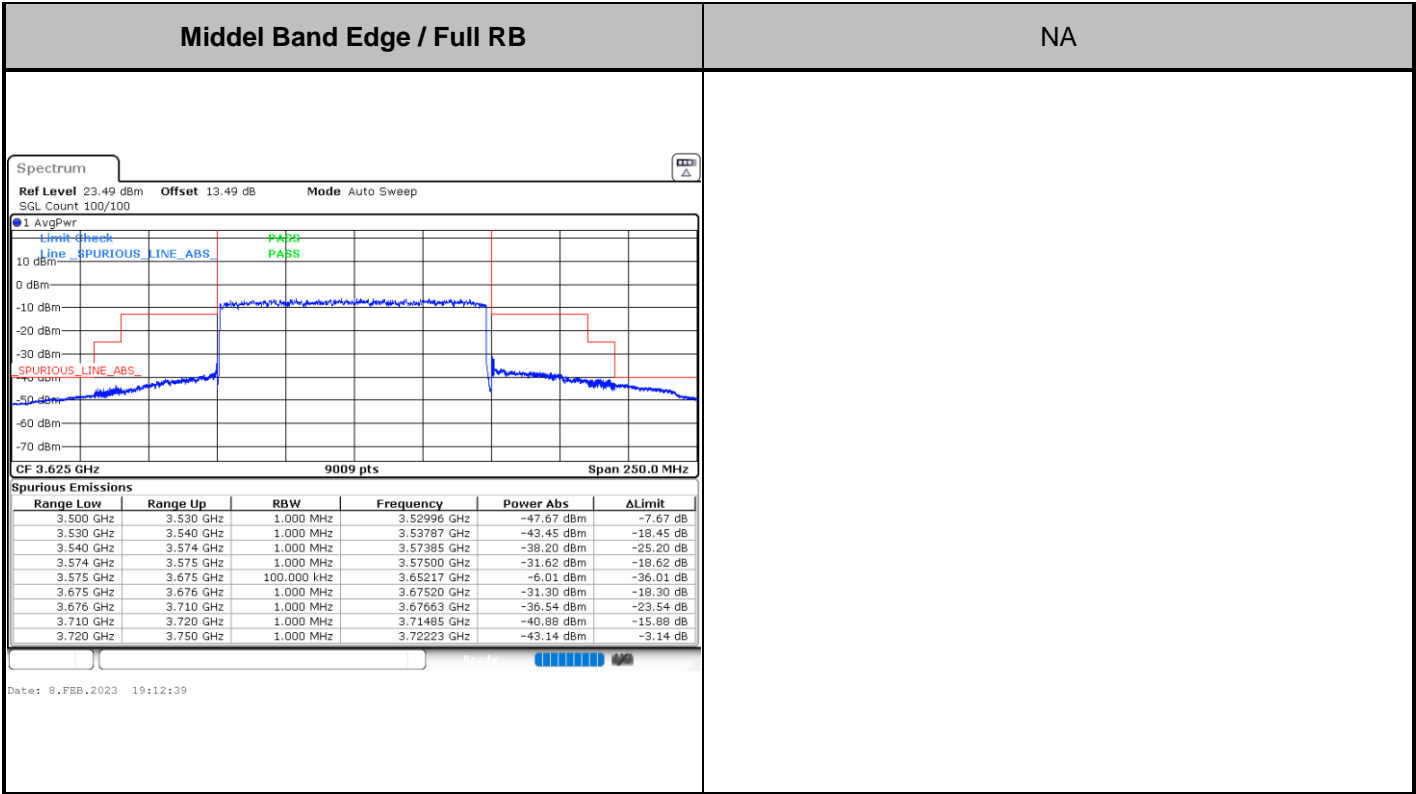
Date: 9.MAR.2023 23:27:28

Date: 9.MAR.2023 23:34:46



Date: 9.MAR.2023 23:37:37

Date: 9.MAR.2023 23:35:56



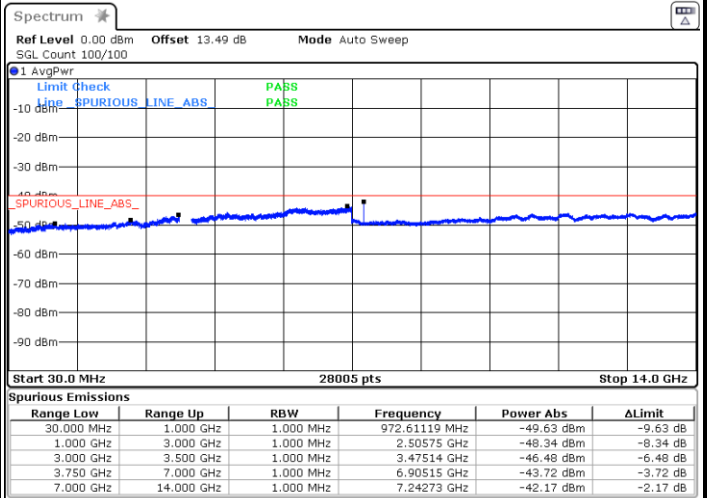
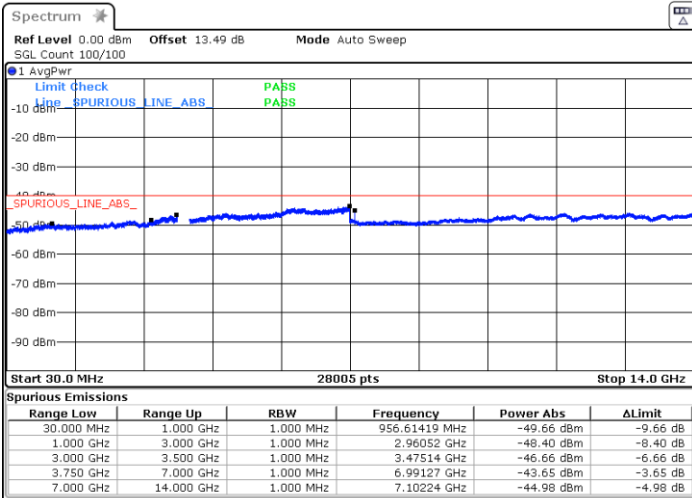


# Conducted Spurious Emission

FR1 n78 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

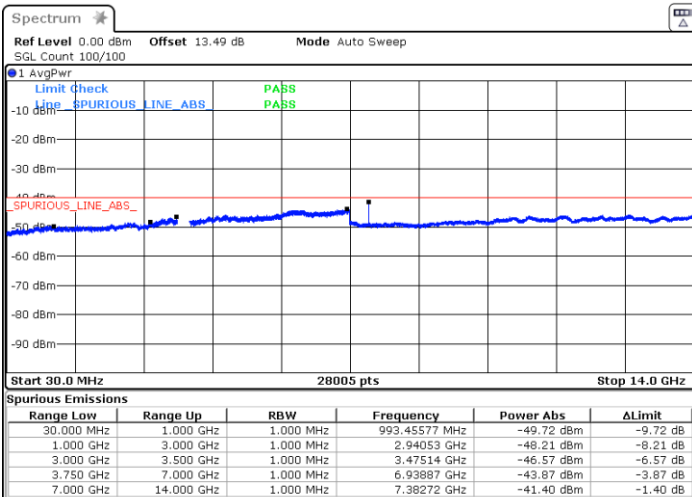


Date: 15.MAR.2023 09:57:52

Date: 15.MAR.2023 08:35:35

Highest Channel / 1RB

NA



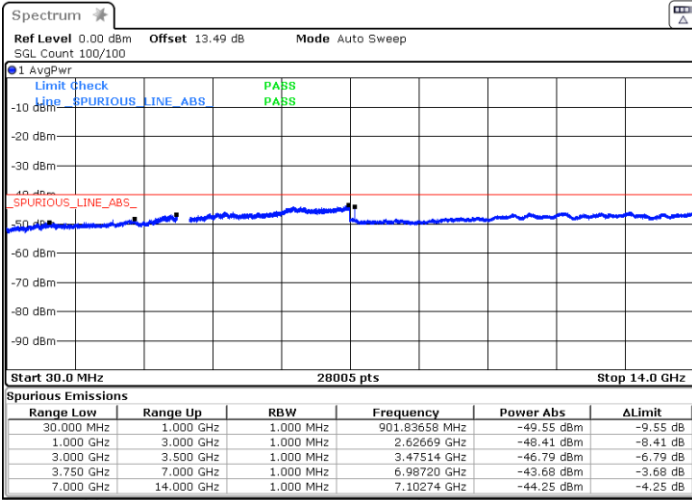
Date: 15.MAR.2023 10:03:08



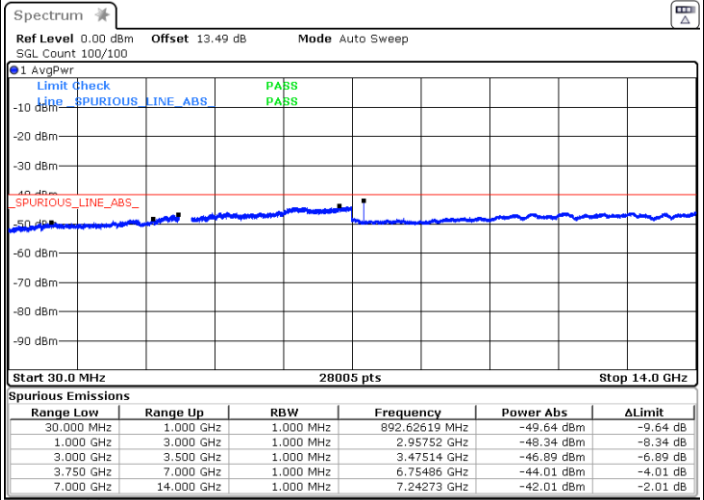
FR1 n78 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB



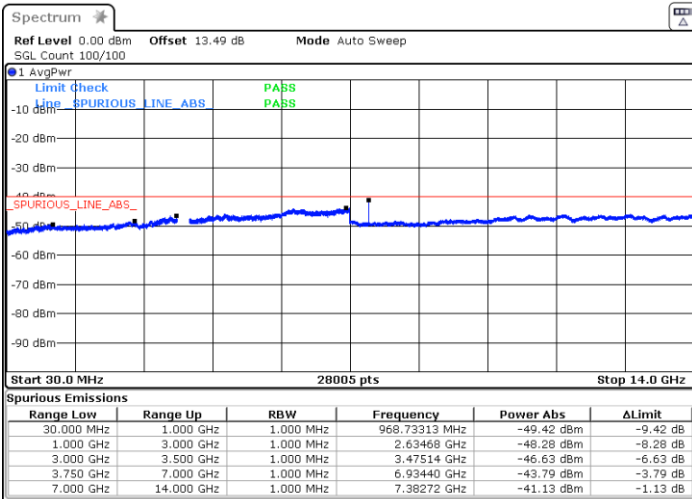
Date: 15.MAR.2023 09:19:23



Date: 15.MAR.2023 08:42:12

Highest Channel / 1RB

NA



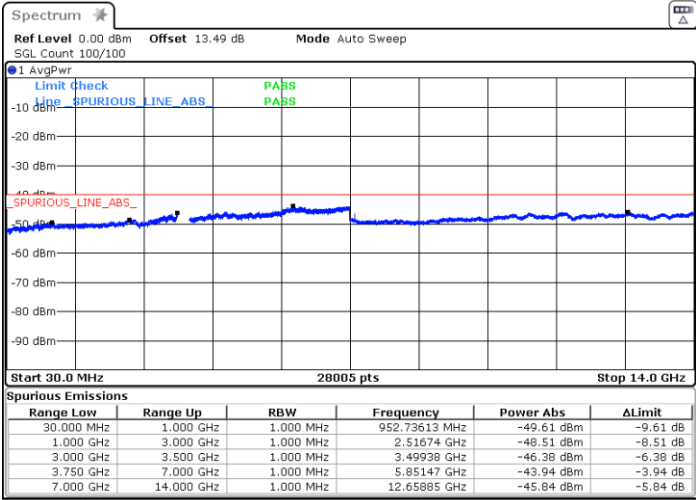
Date: 15.MAR.2023 10:13:30



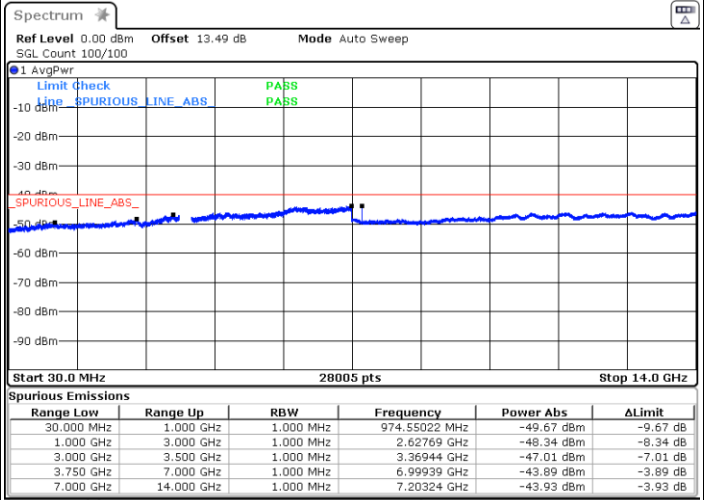
FR1 n78 / 50MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB



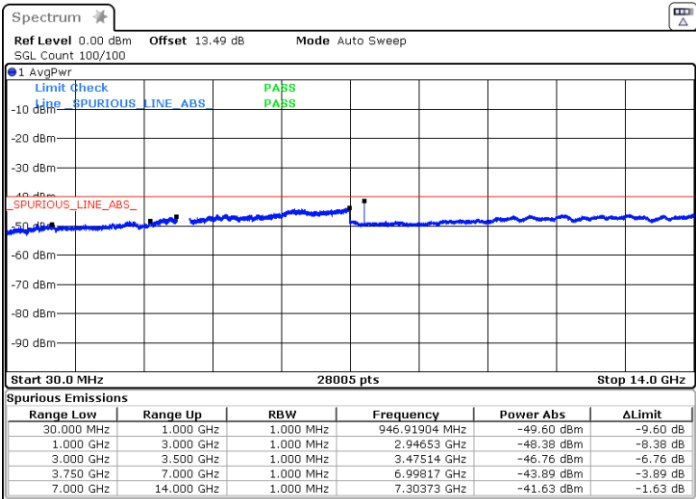
Date: 15.MAR.2023 06:57:49



Date: 15.MAR.2023 06:47:42

Highest Channel / 1RB

NA



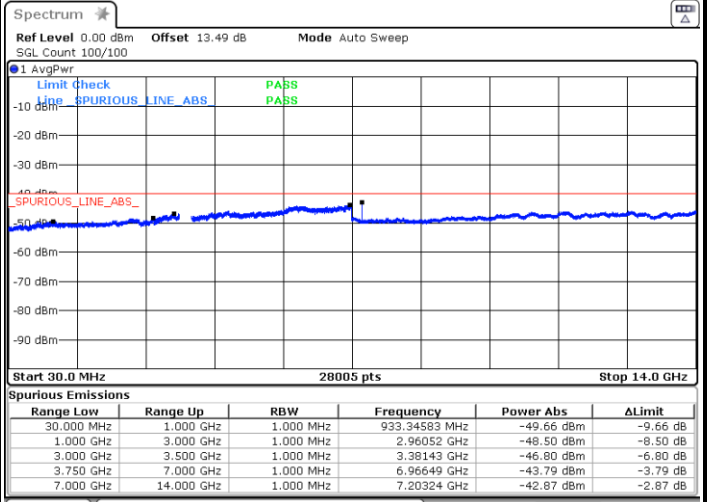
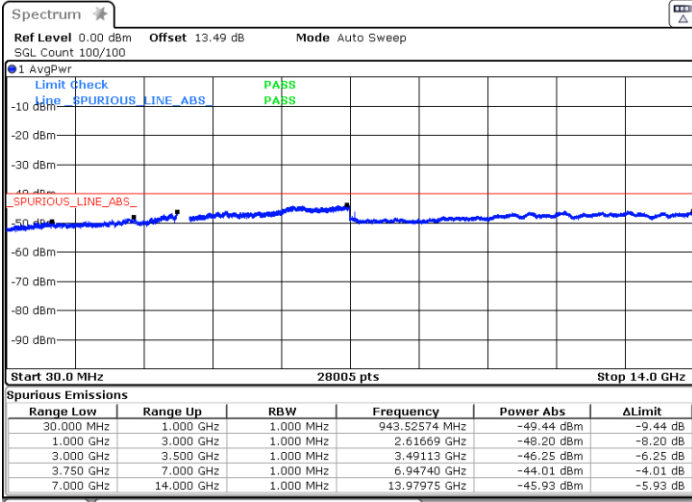
Date: 15.MAR.2023 07:07:37



FR1 n78 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

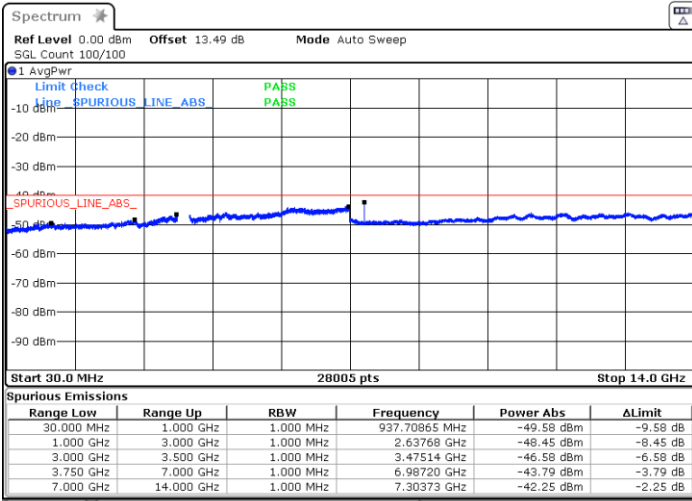


Date: 15.MAR.2023 06:54:57

Date: 15.MAR.2023 06:51:48

Highest Channel / 1RB

NA



Date: 15.MAR.2023 07:50:00

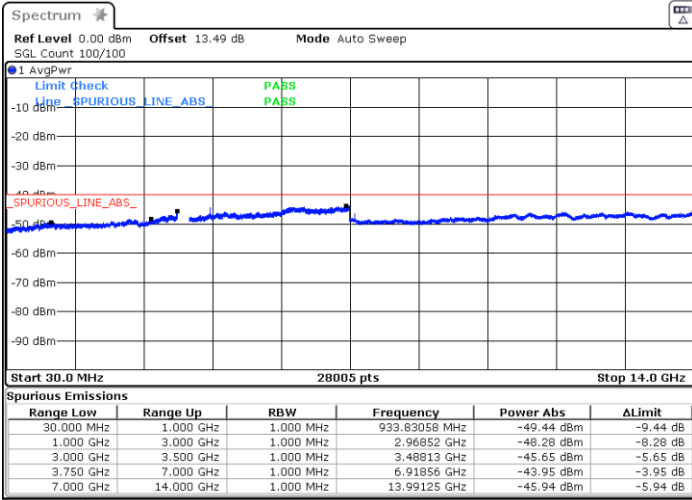




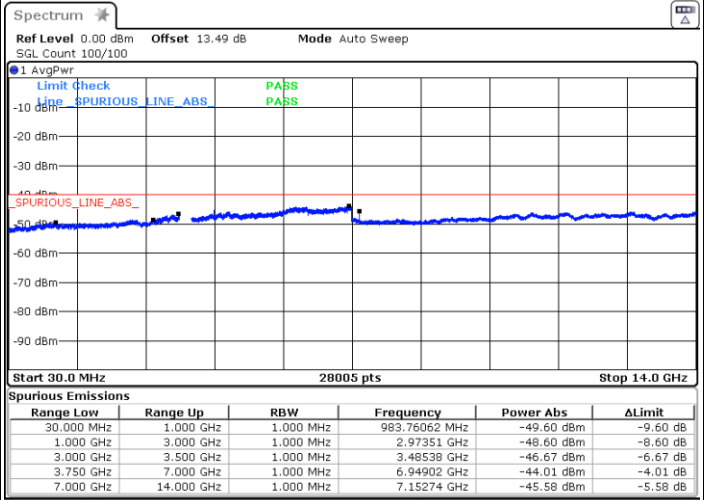
FR1 n78 / 100MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB



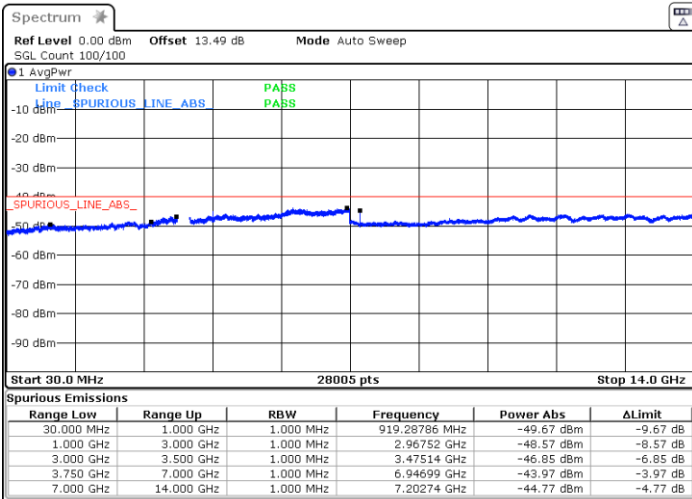
Date: 15.MAR.2023 06:35:31



Date: 15.MAR.2023 06:12:45

Highest Channel / 1RB

NA



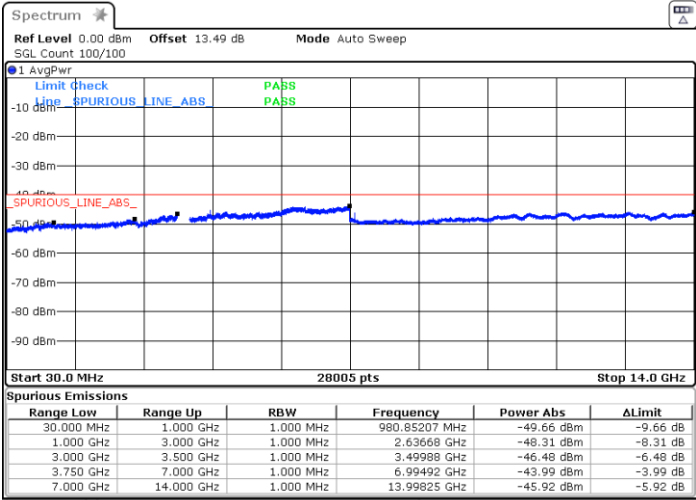
Date: 15.MAR.2023 06:40:27



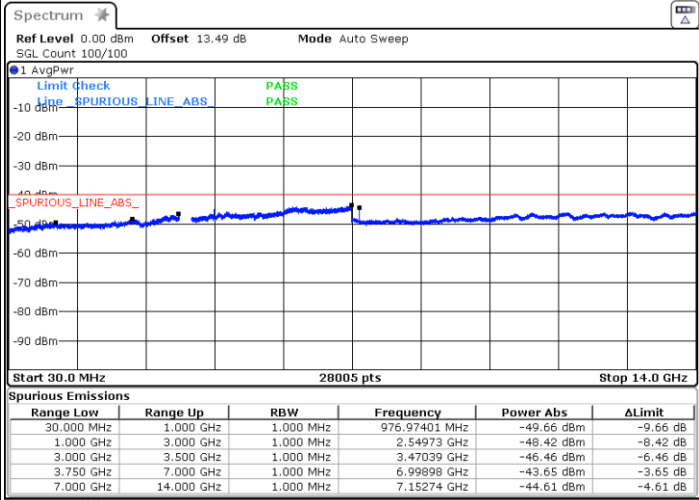
FR1 n78 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB



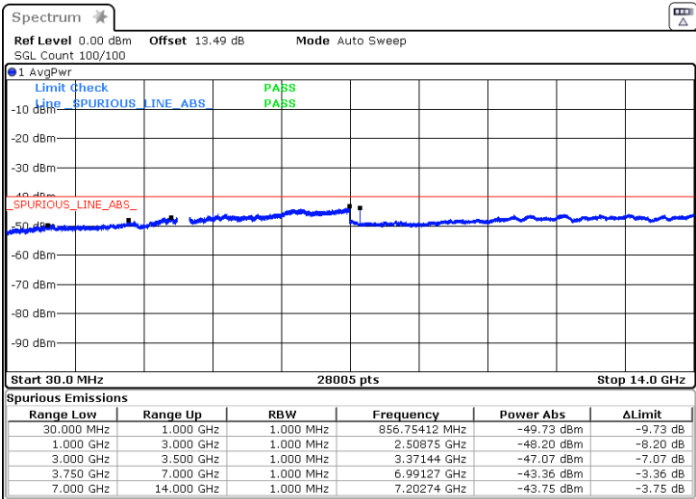
Date: 15.MAR.2023 06:31:28



Date: 15.MAR.2023 06:17:17

Highest Channel / 1RB

NA



Date: 15.MAR.2023 06:42:51



### Frequency Stability

Test Conditions		FR1 n78 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0038	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0032	
20	Battery End Point	0.0036	

**Note:**

- 1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.3 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.



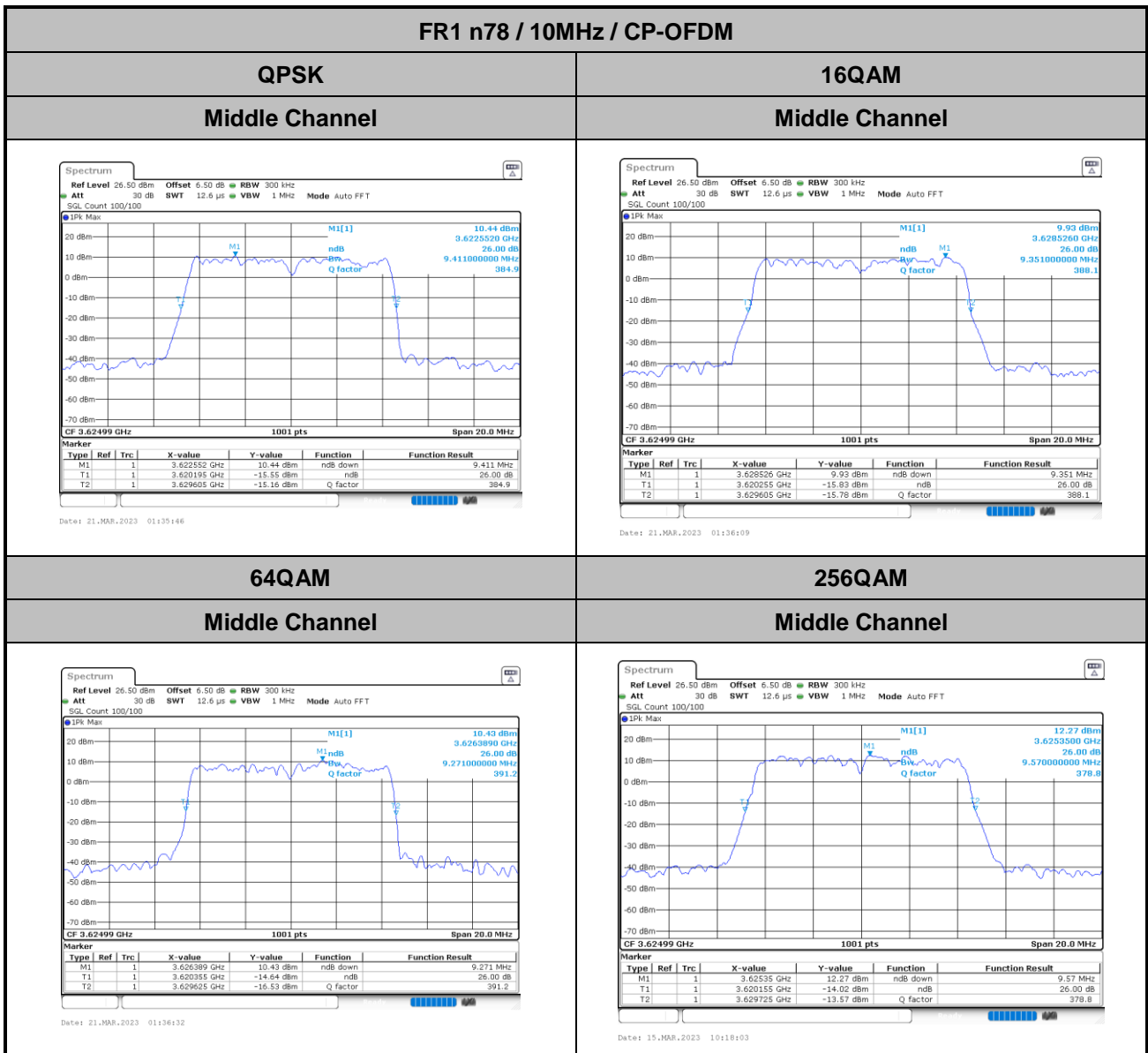
# FR1 n78 UL MIMO

## 26dB Bandwidth

Mode	FR1 n78 : 26dB BW(10 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.41	9.35	9.27	9.57
Mode	FR1 n78 : 26dB BW(15 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.78	14.39	14.63	14.36
Mode	FR1 n78 : 26dB BW(20 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	19.14	19.02	19.66	19.18
Mode	FR1 n78 : 26dB BW(25 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	24.17	24.10	24.31	24.46
Mode	FR1 n78 : 26dB BW(30 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	29.00	29.26	28.74	29.09
Mode	FR1 n78 : 26dB BW(40 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	40.28	40.12	40.28	40.12
Mode	FR1 n78 : 26dB BW(50 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	49.75	49.75	49.95	49.65
Mode	FR1 n78 : 26dB BW(60 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	60.3	60.3	60.3	60.3
Mode	FR1 n78 : 26dB BW(80 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	80.08	79.92	80.08	79.92



Mode	FR1 n78 : 26dB BW(90 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	92.07	92.61	92.07	92.25
Mode	FR1 n78 : 26dB BW(100 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	102.3	102.3	102.5	102.5





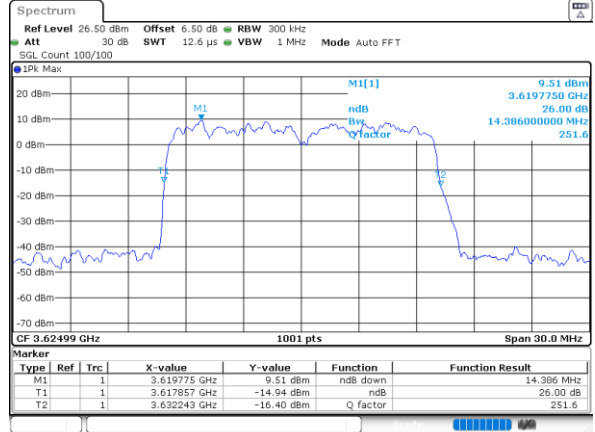
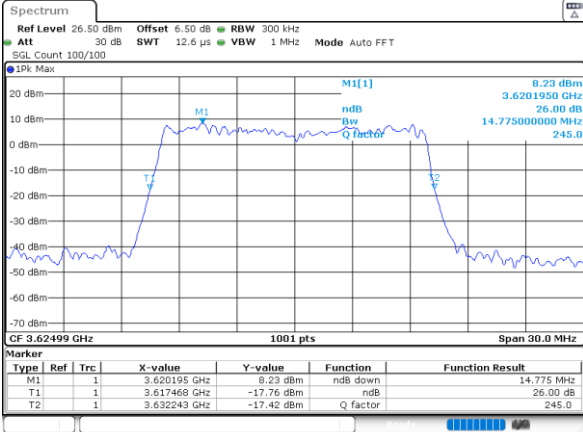
FR1 n78 / 15MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:34:44

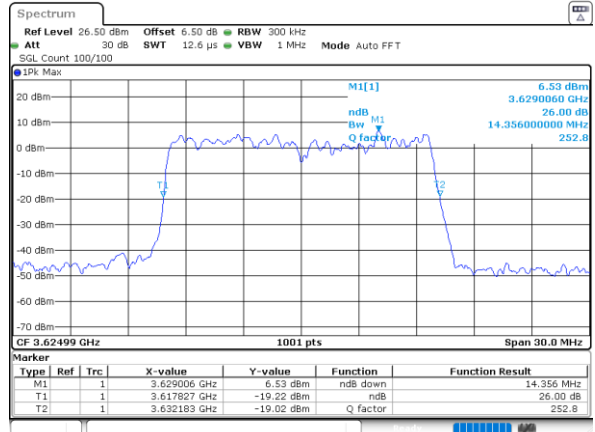
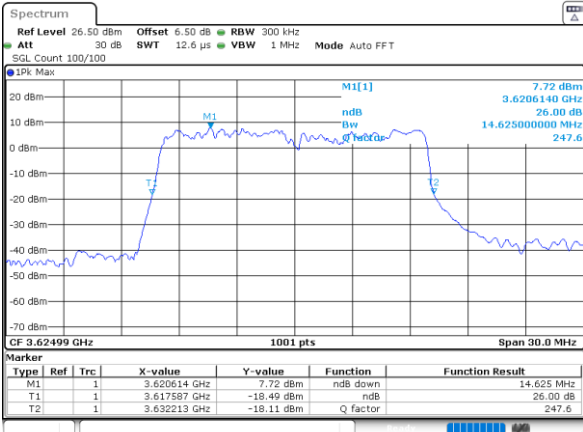
Date: 21.MAR.2023 01:34:07

64QAM

256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:33:57

Date: 21.MAR.2023 01:33:12



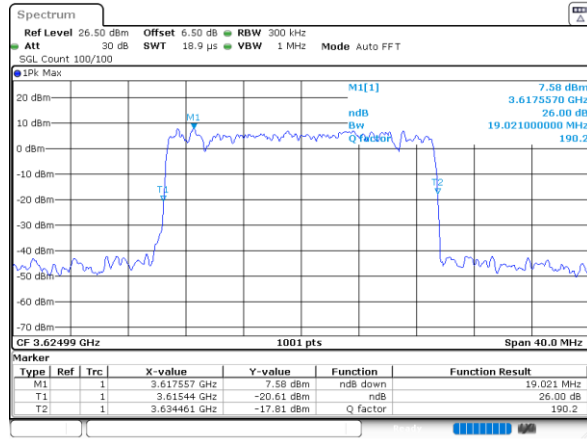
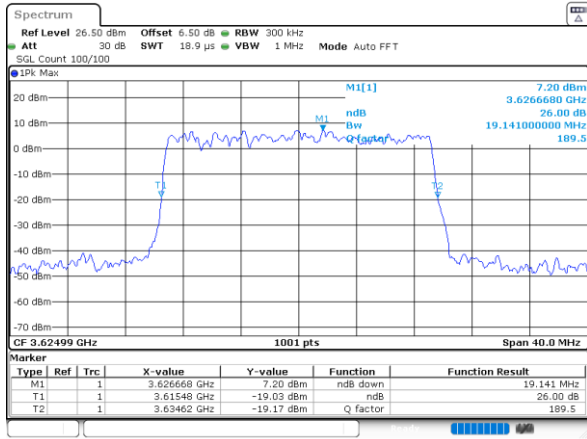
FR1 n78 / 20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:29:20

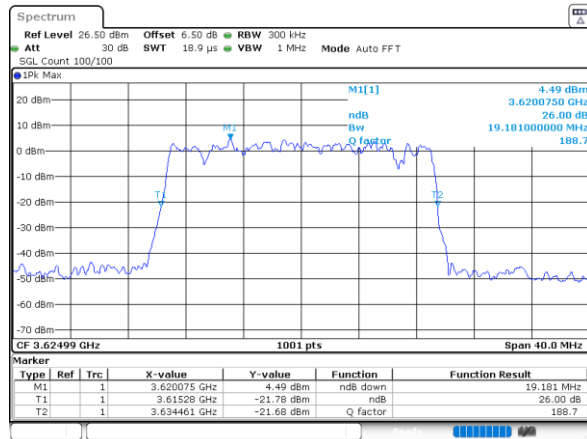
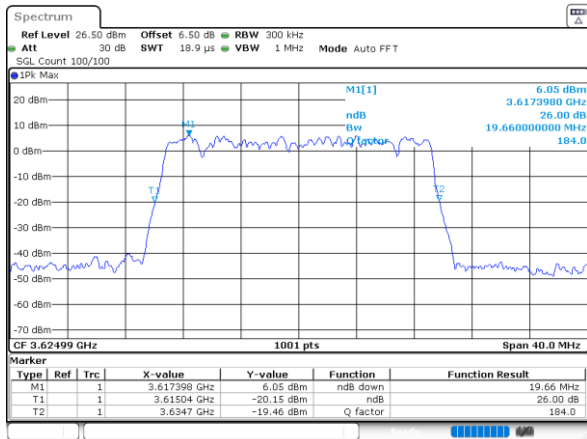
Date: 21.MAR.2023 01:29:49

64QAM

256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:30:58

Date: 21.MAR.2023 01:31:27



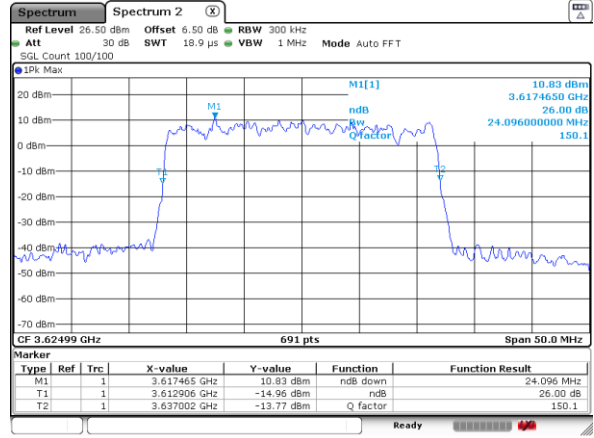
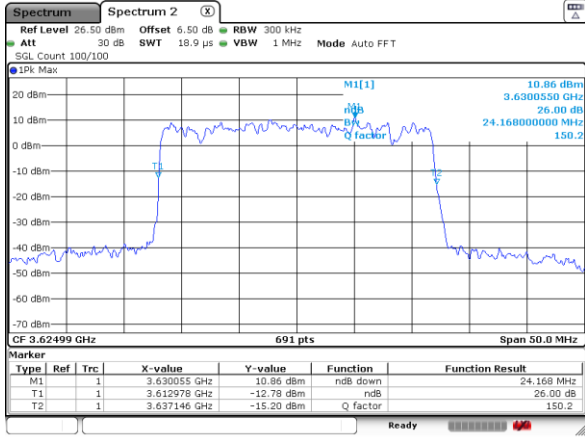
FR1 n78 / 25MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel

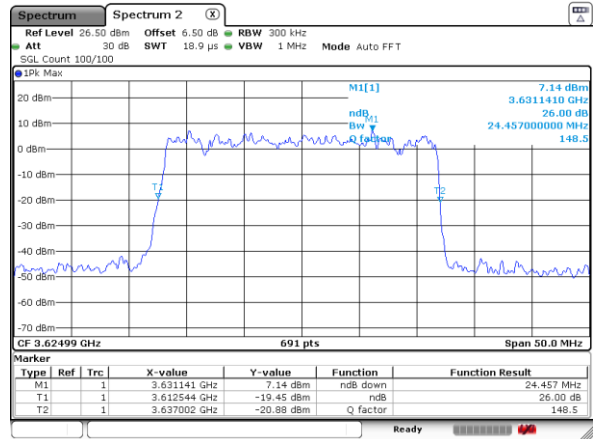
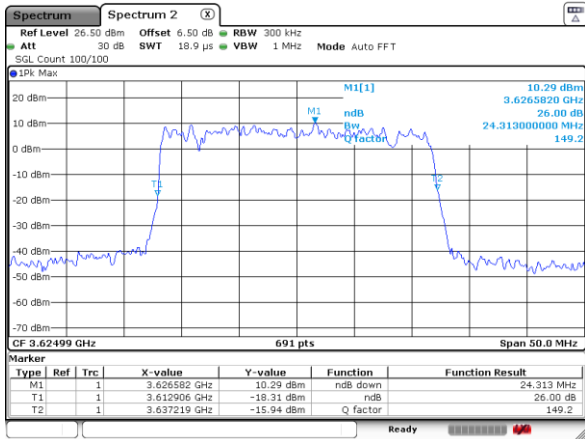


64QAM

256QAM

Middle Channel

Middle Channel



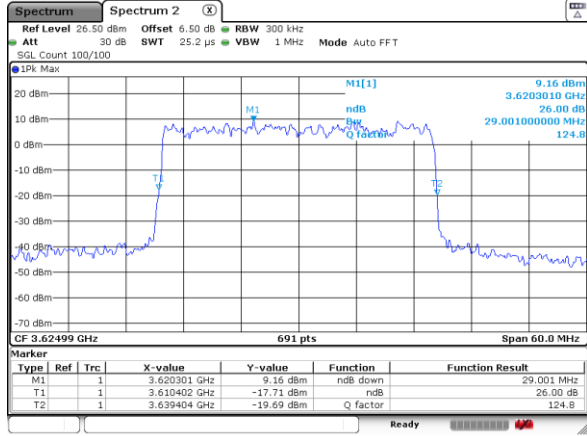




FR1 n78 / 30MHz / CP-OFDM

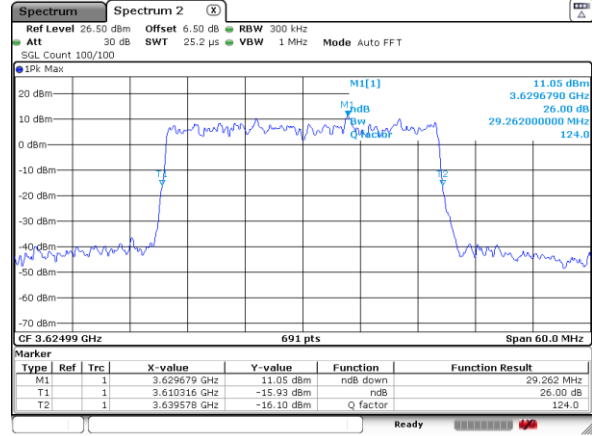
QPSK

Middle Channel



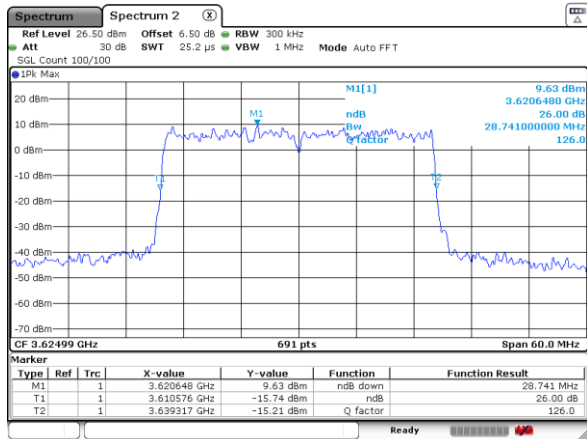
16QAM

Middle Channel



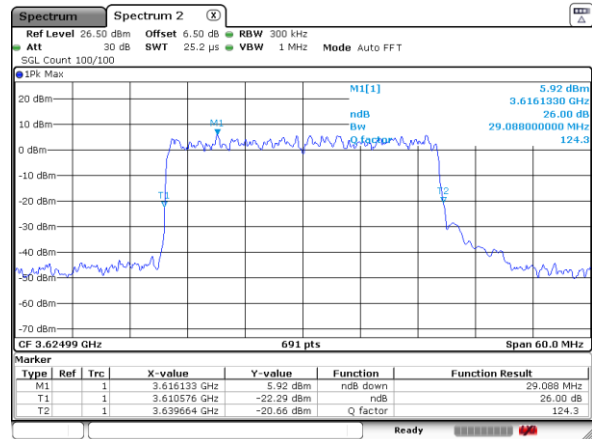
64QAM

Middle Channel



256QAM

Middle Channel





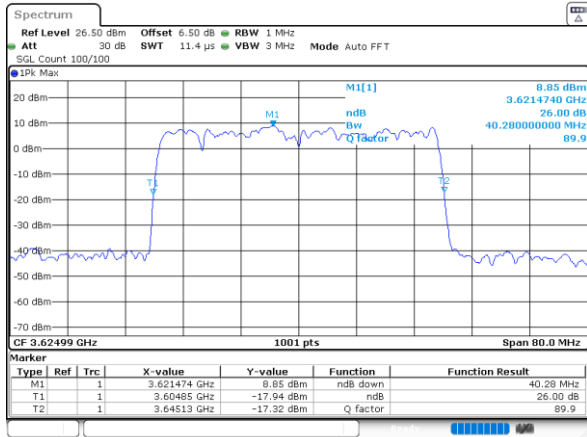
FR1 n78 / 40MHz / CP-OFDM

QPSK

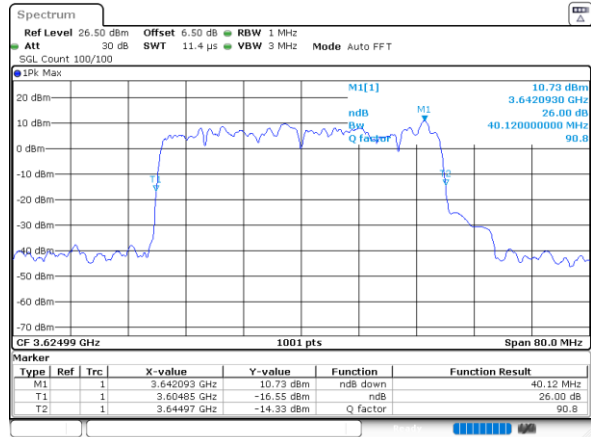
16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:28:17



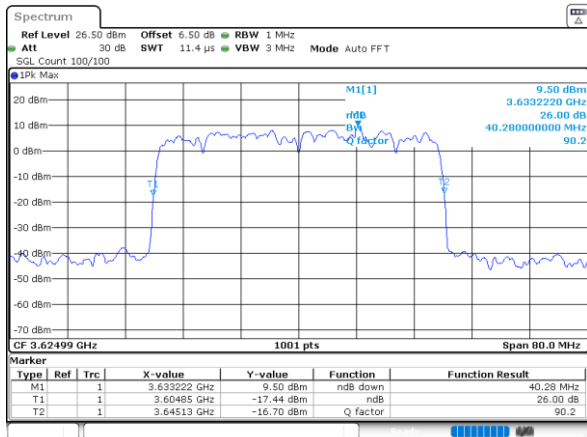
Date: 21.MAR.2023 01:26:39

64QAM

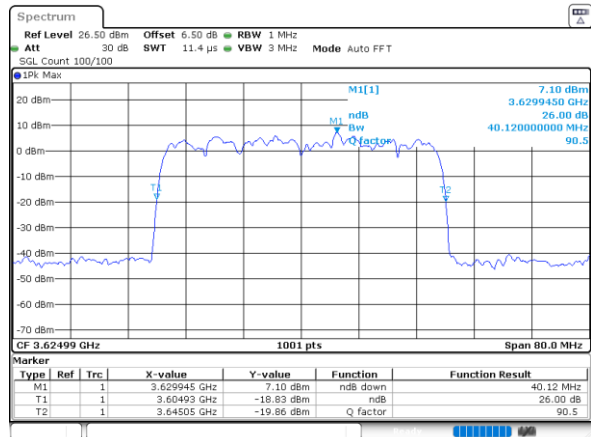
256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:27:02



Date: 21.MAR.2023 01:25:24



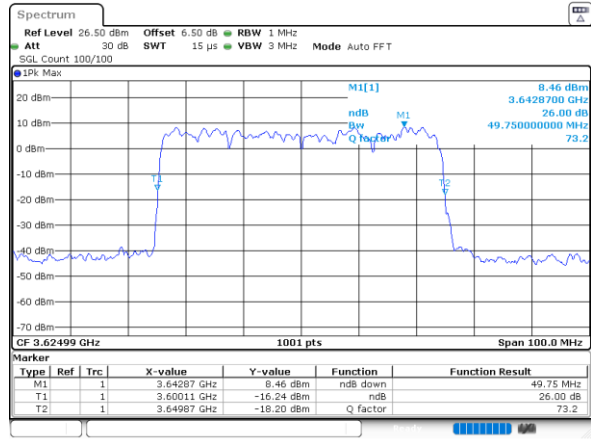
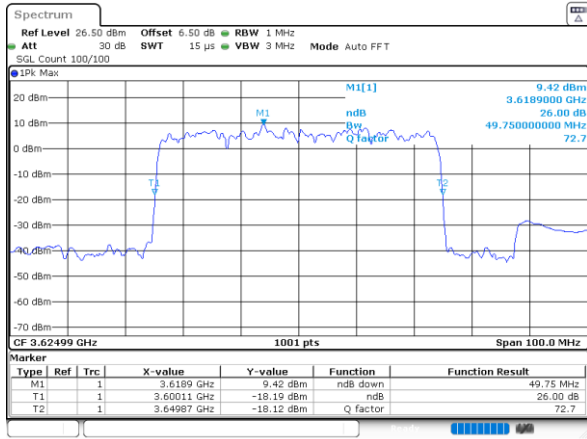
FR1 n78 / 50MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:22:49

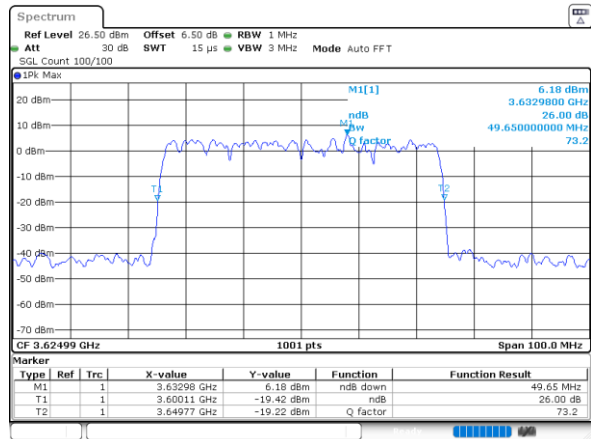
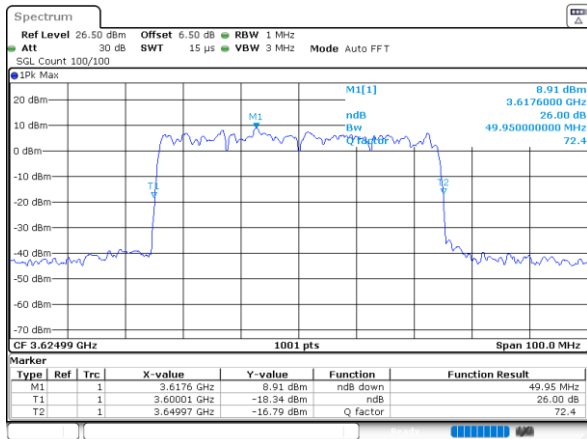
Date: 21.MAR.2023 01:23:14

64QAM

256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:23:57

Date: 21.MAR.2023 01:24:33



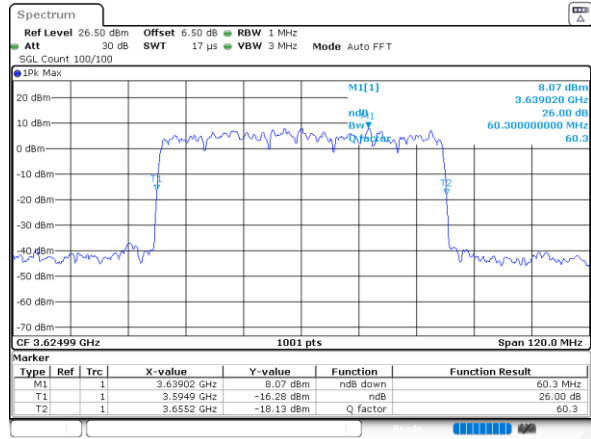
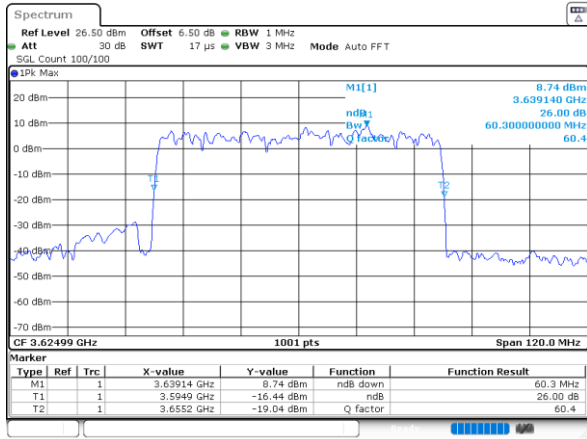
FR1 n78 / 60MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:21:53

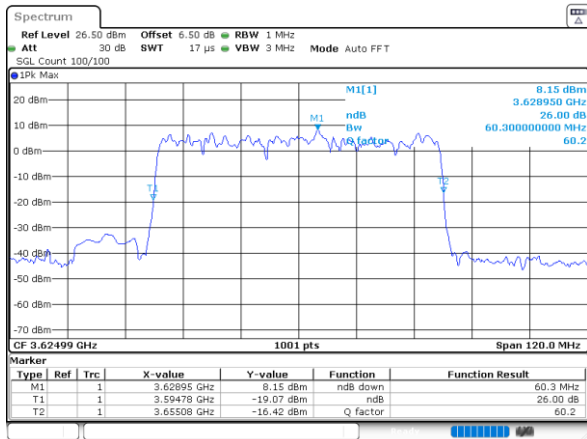
Date: 21.MAR.2023 01:21:14

64QAM

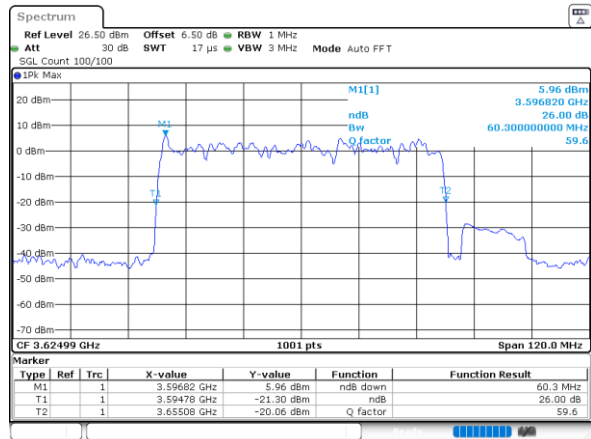
256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:20:38



Date: 21.MAR.2023 01:20:10



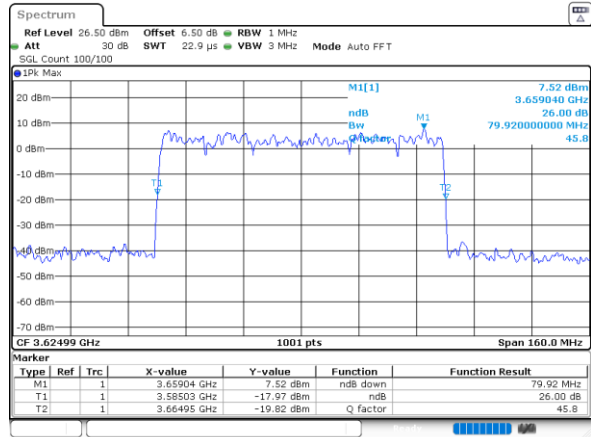
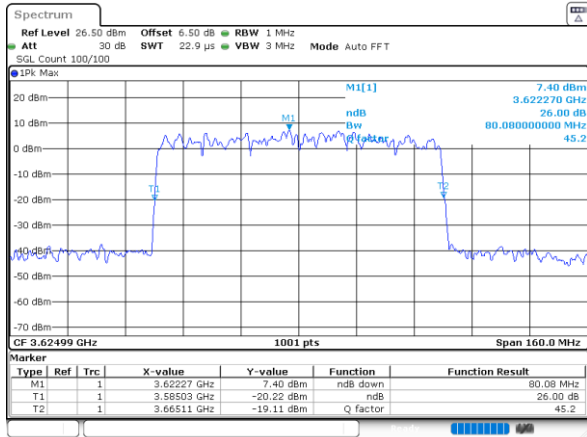
FR1 n78 / 80MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:17:01

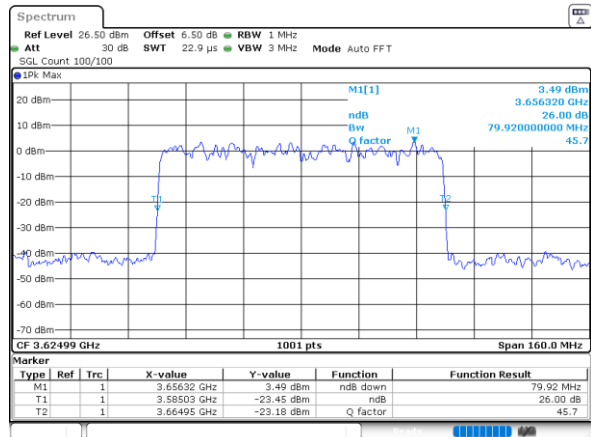
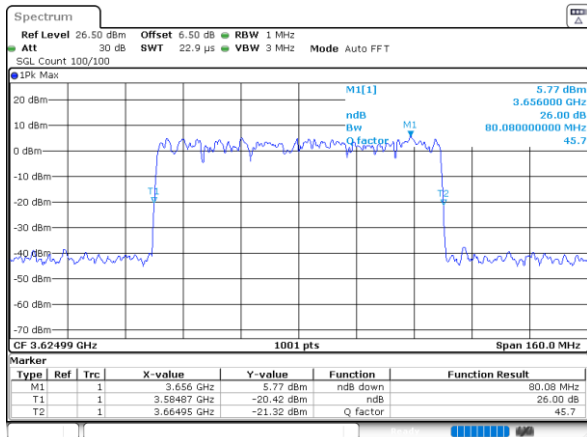
Date: 21.MAR.2023 01:17:58

64QAM

256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:18:49

Date: 21.MAR.2023 01:19:28



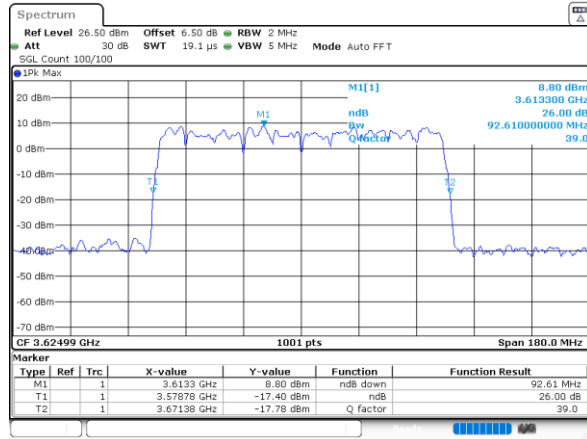
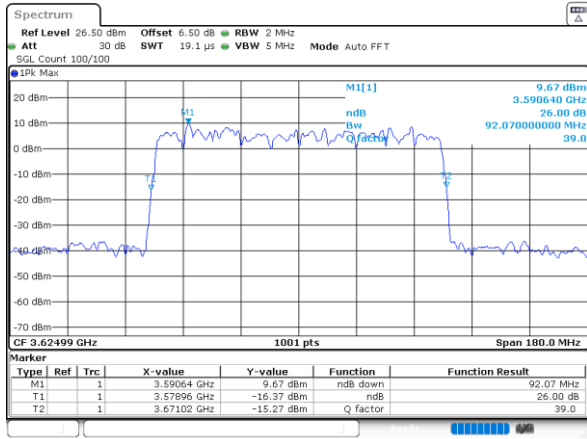
FR1 n78 / 90MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:15:48

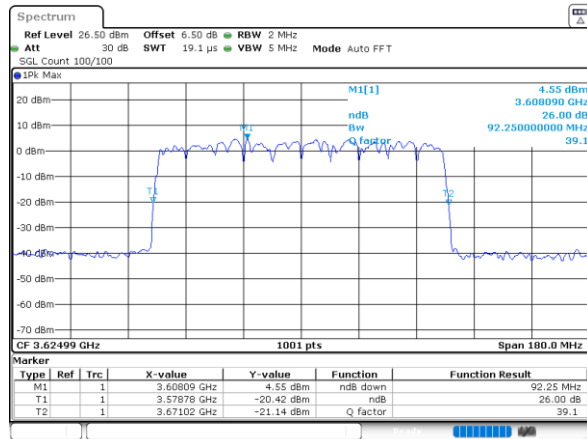
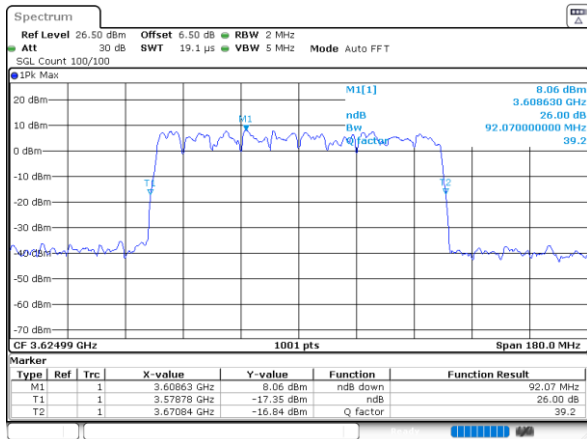
Date: 21.MAR.2023 01:14:54

64QAM

256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:14:12

Date: 21.MAR.2023 01:13:41



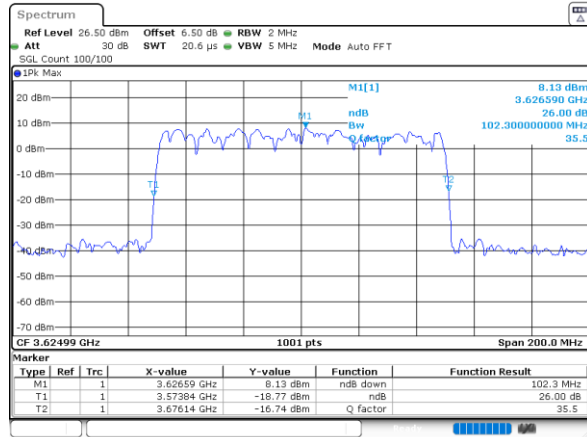
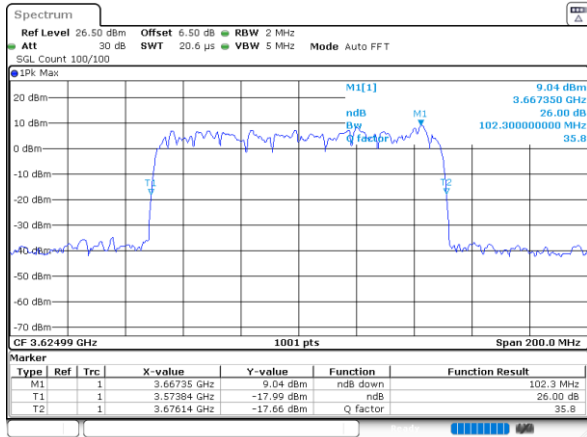
FR1 n78 / 100MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:09:38

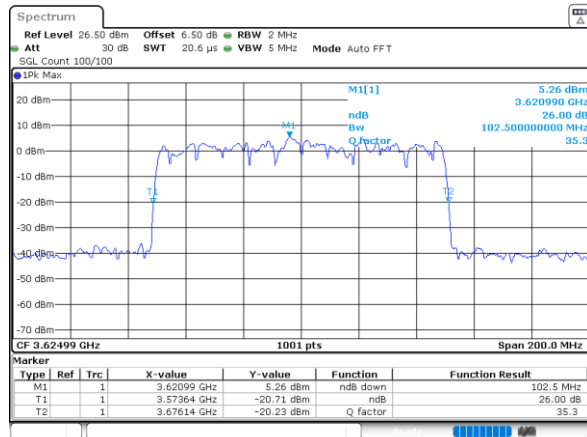
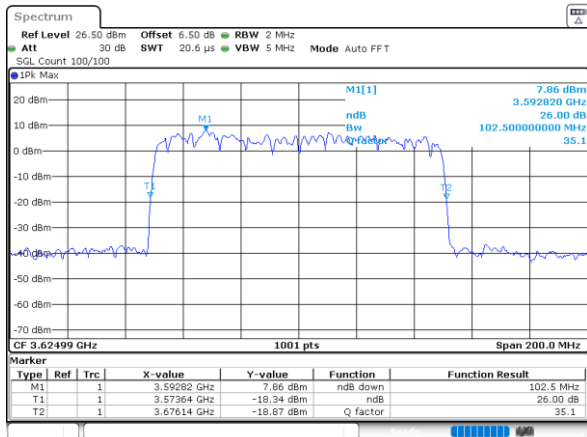
Date: 21.MAR.2023 01:10:28

64QAM

256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:11:53

Date: 21.MAR.2023 01:12:19



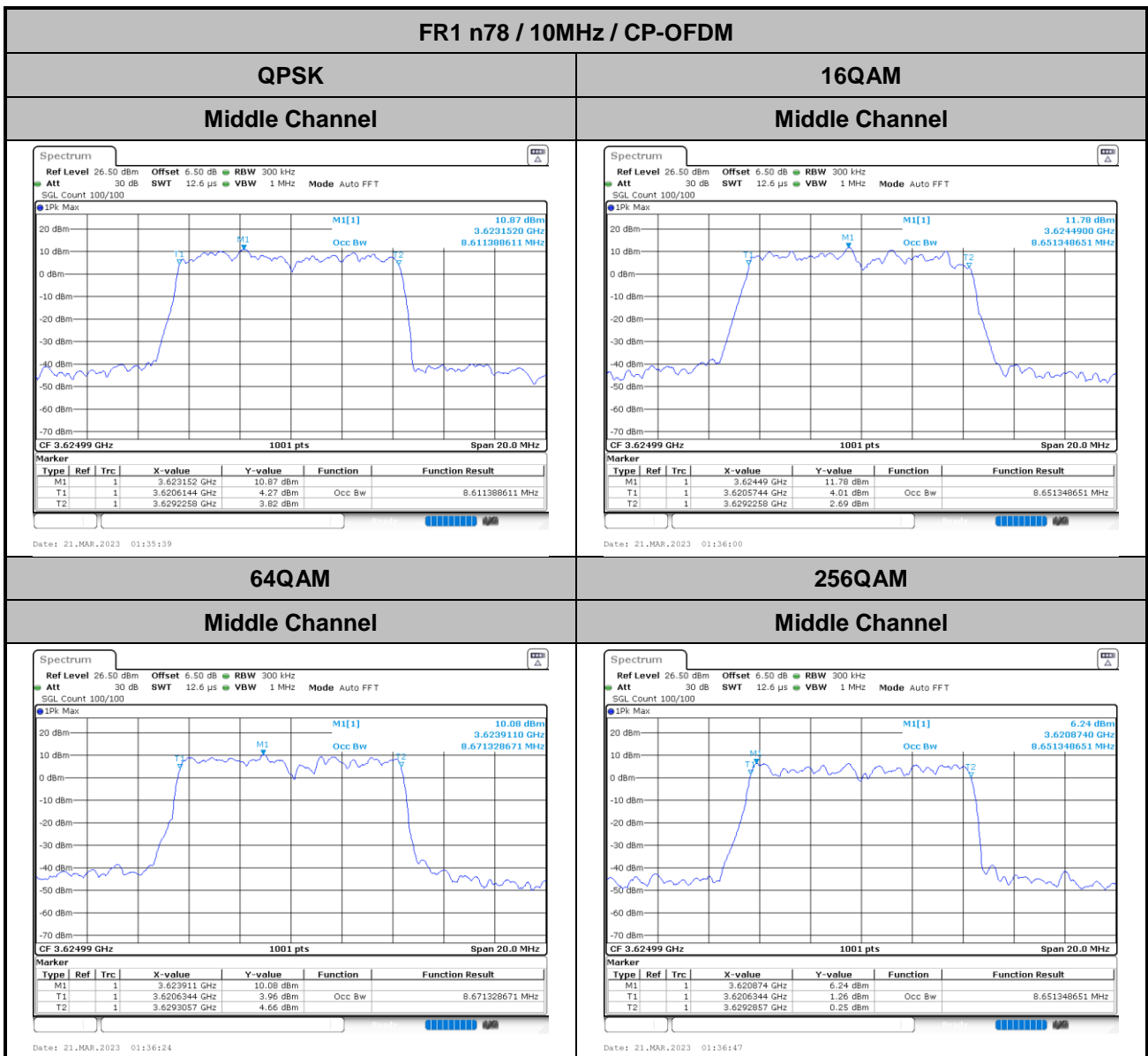
**Occupied Bandwidth**

Mode	FR1 n78 : OB BW(10 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	8.61	8.65	8.67	8.65
Mode	FR1 n78 : OB BW(15 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	13.52	13.64	13.61	13.61
Mode	FR1 n78 : OB BW(20 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.18	18.22	18.30	18.18
Mode	FR1 n78 : OB BW(25 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	23.08	23.30	23.23	23.23
Mode	FR1 n78 : OB BW(30 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	27.87	27.87	27.87	27.87
Mode	FR1 n78 : OB BW(40 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	38.36	37.88	38.04	38.04
Mode	FR1 n78 : OB BW(50 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	47.65	47.35	47.45	47.75
Mode	FR1 n78 : OB BW(60 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	58.02	57.90	57.42	57.66
Mode	FR1 n78 : OB BW(80 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	77.36	77.68	77.68	77.20





Mode	FR1 n78 : OB BW(90 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	86.31	86.67	86.67	87.57
Mode	FR1 n78 : OB BW(100 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	97.90	98.10	97.50	96.90





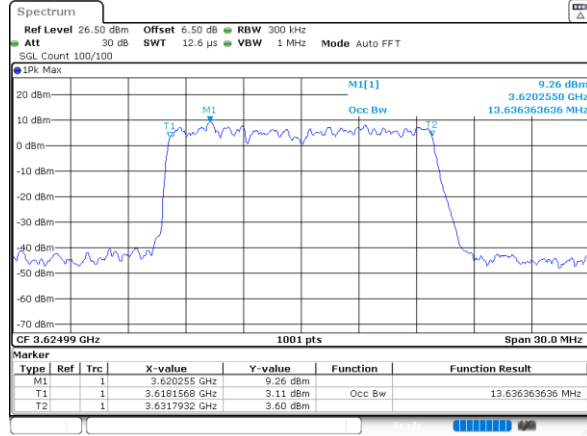
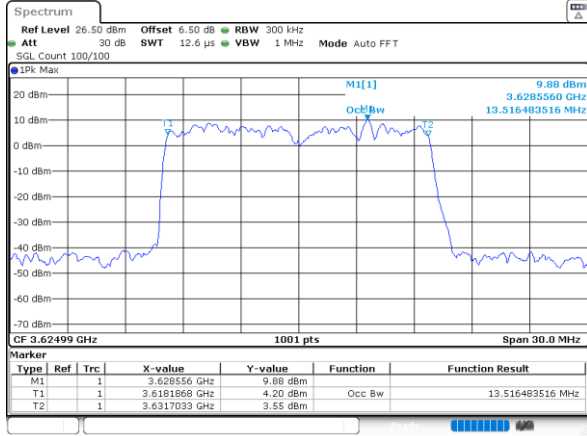
FR1 n78 / 15MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:34:28

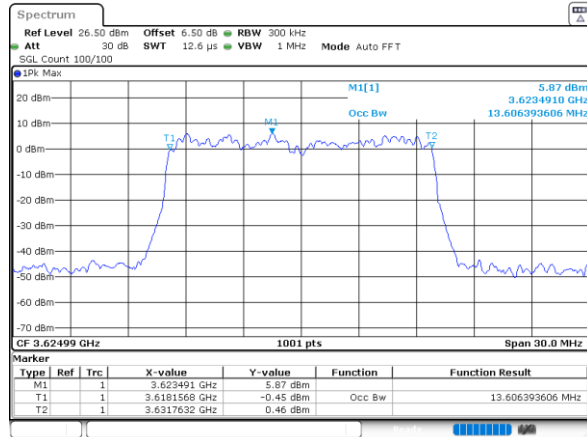
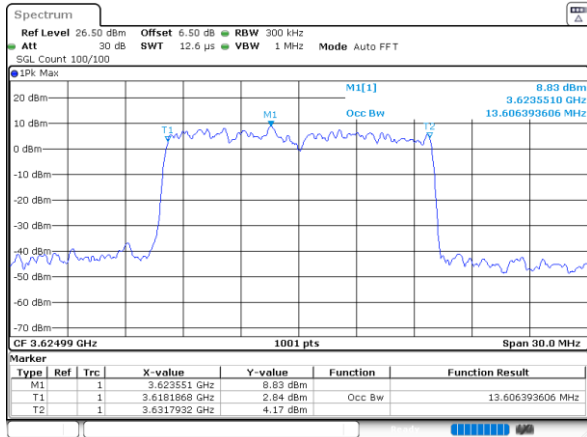
Date: 21.MAR.2023 01:33:56

64QAM

256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:33:29

Date: 21.MAR.2023 01:32:59



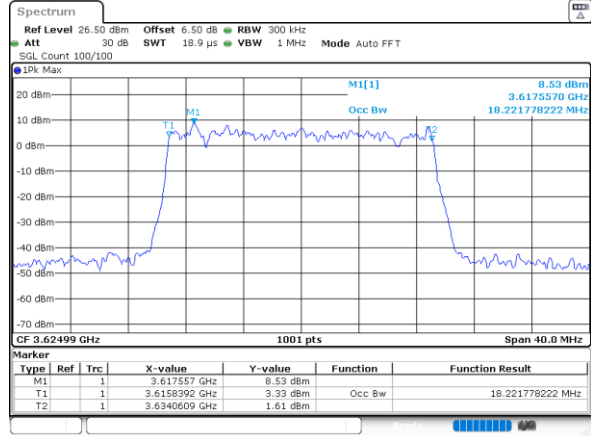
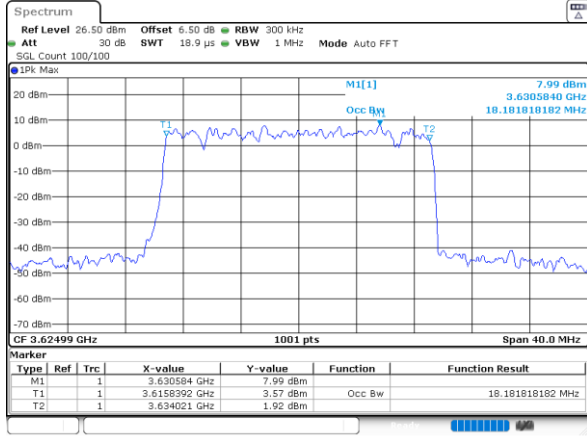
FR1 n78 / 20MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:29:04

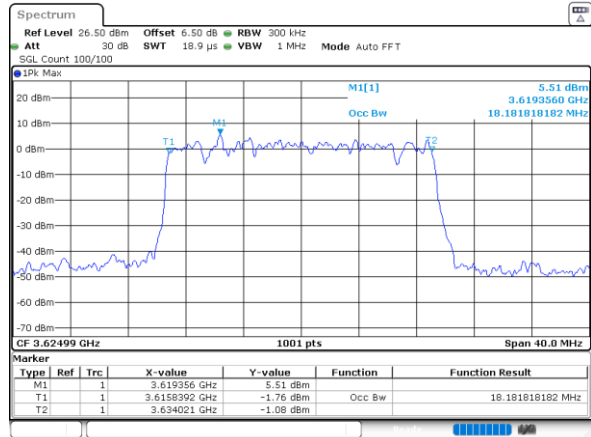
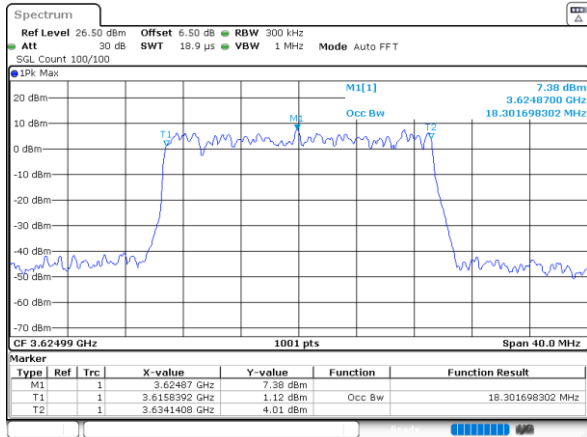
Date: 21.MAR.2023 01:29:41

64QAM

256QAM

Middle Channel

Middle Channel



Date: 21.MAR.2023 01:30:15

Date: 21.MAR.2023 01:31:20



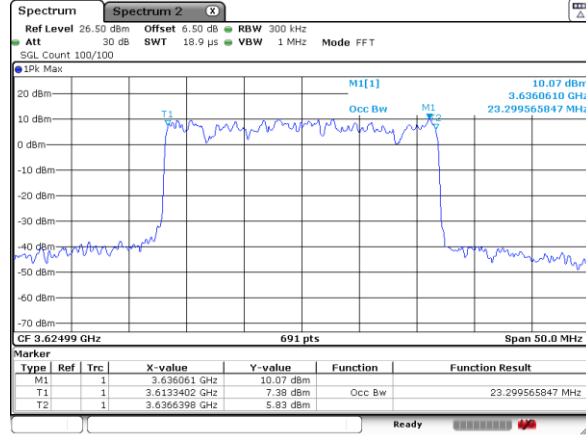
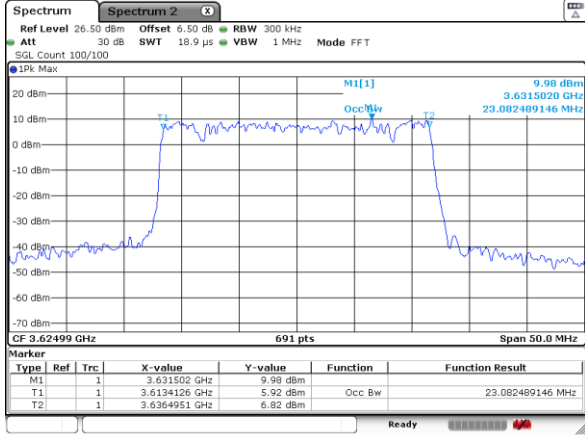
FR1 n78 / 25MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 28.MAR.2023 23:13:33

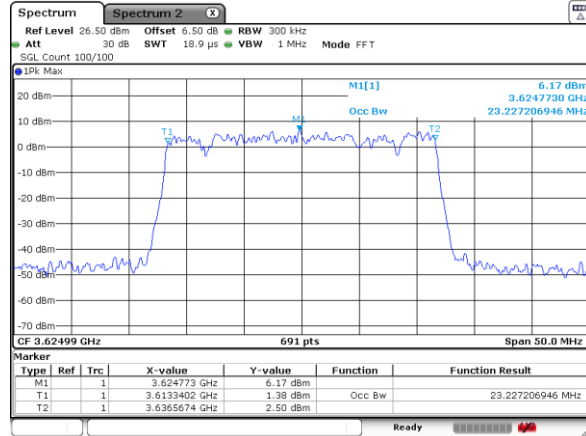
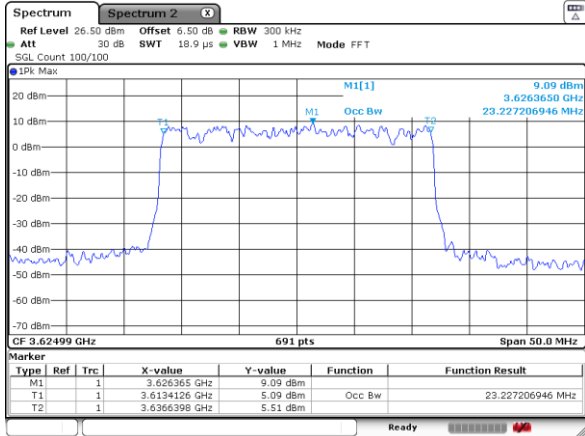
Date: 28.MAR.2023 23:14:23

64QAM

256QAM

Middle Channel

Middle Channel



Date: 28.MAR.2023 23:14:46

Date: 28.MAR.2023 23:15:33