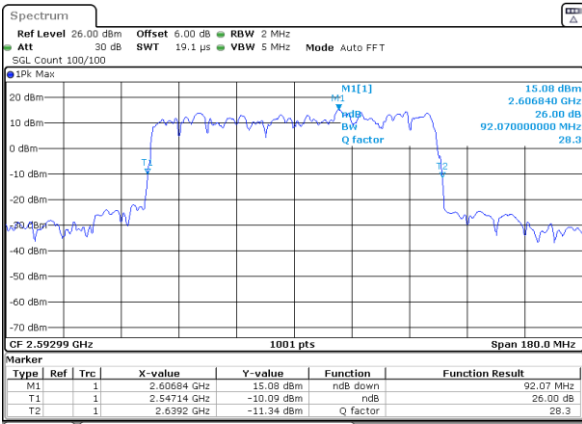




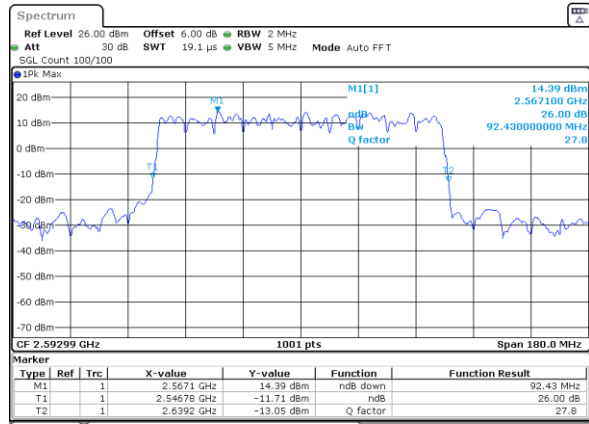
90MHz CP

QPSK



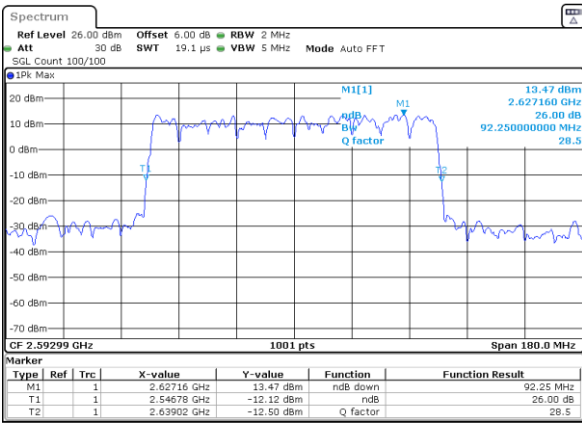
Date: 8,DEC,2022 08:58:08

16QAM



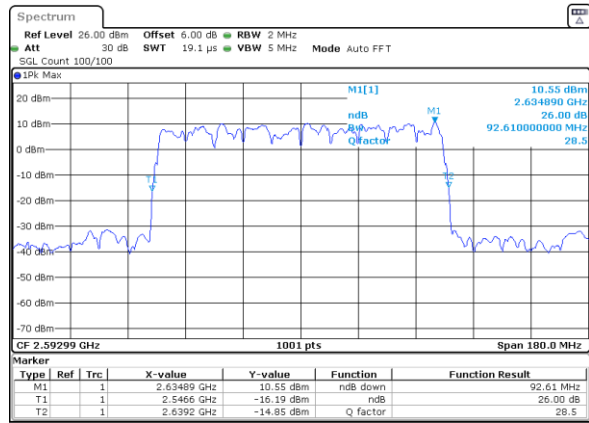
Date: 8,DEC,2022 08:57:49

64QAM



Date: 8,DEC,2022 08:57:30

256QAM

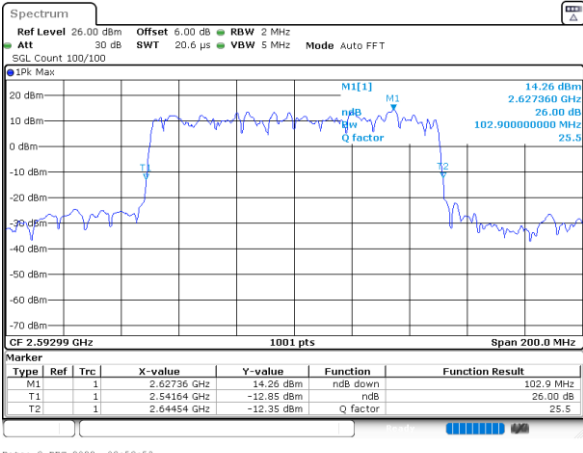


Date: 8,DEC,2022 08:57:12



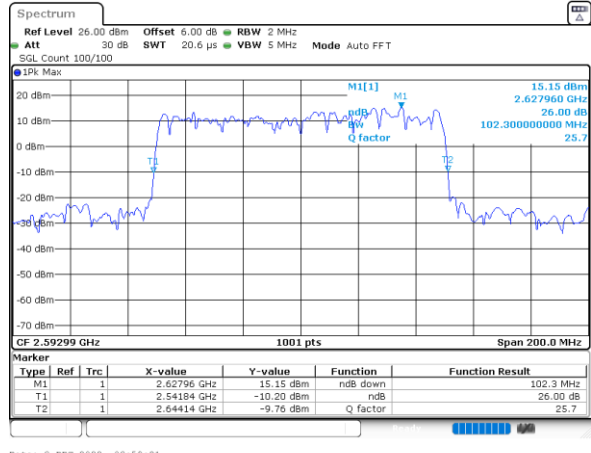
100MHz CP

QPSK



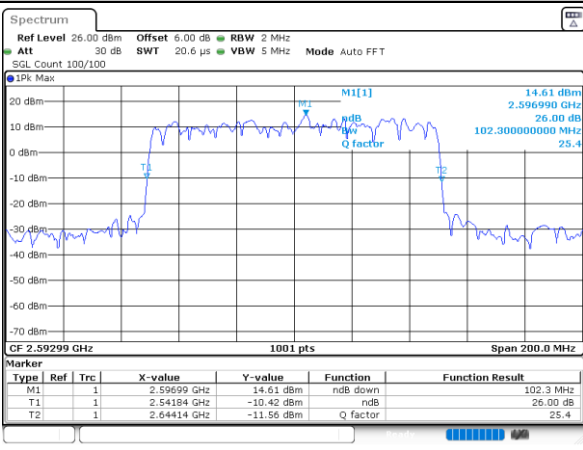
Date: 8,DEC,2022 08:58:53

16QAM



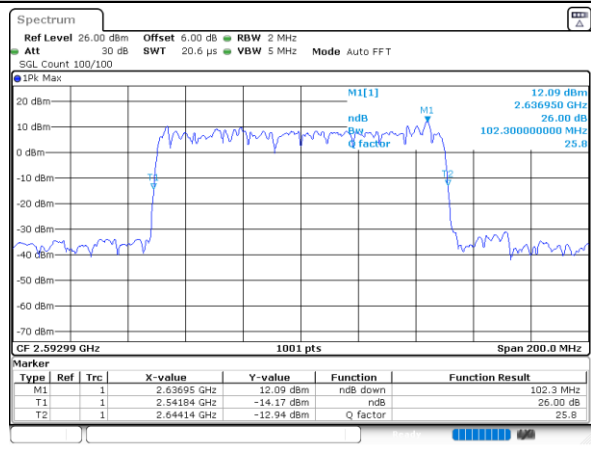
Date: 8,DEC,2022 08:59:21

64QAM



Date: 8,DEC,2022 08:59:41

256QAM



Date: 8,DEC,2022 09:00:02



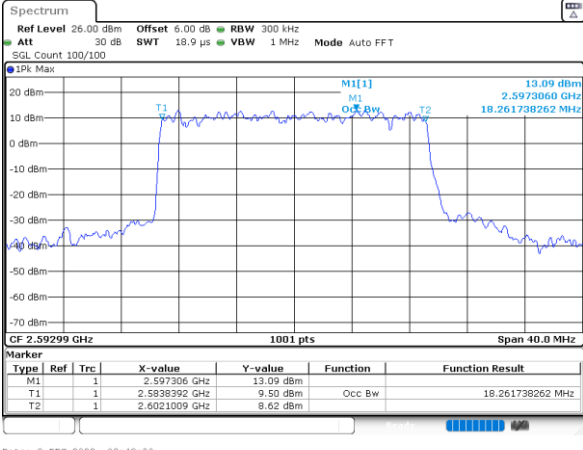
Occupied Bandwidth

Mode	FR1 n41 : OB BW(20 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.26	18.22	18.18	18.22
Mode	FR1 n41 : OB BW(30 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	27.73	27.81	27.73	27.89
Mode	FR1 n41 : OB BW(40 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	37.88	38.20	38.04	38.12
Mode	FR1 n41 : OB BW(50 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	47.75	47.65	47.65	47.45
Mode	FR1 n41 : OB BW(60 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	58.02	57.42	57.66	57.66
Mode	FR1 n41 : OB BW(70 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	67.73	67.49	67.13	67.49
Mode	FR1 n41 : OB BW(80 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	77.52	77.20	77.20	77.36
Mode	FR1 n41 : OB BW(90 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	87.57	87.39	87.75	87.93
Mode	FR1 n41 : OB BW(100 MHz) /CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	98.50	97.70	97.90	98.50



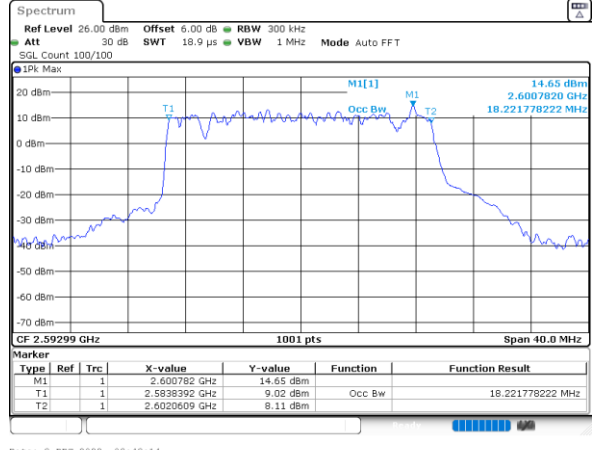
20MHz CP

QPSK



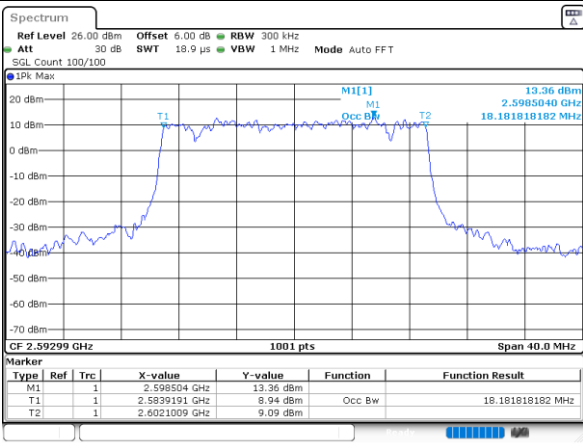
Date: 8,DEC,2022 08:48:13

16QAM



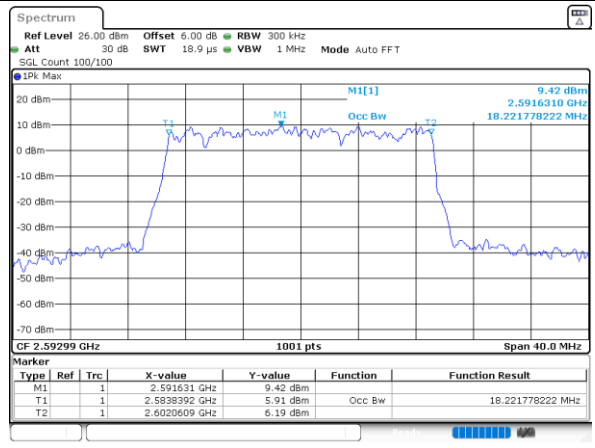
Date: 8,DEC,2022 08:48:14

64QAM



Date: 8,DEC,2022 08:47:59

256QAM

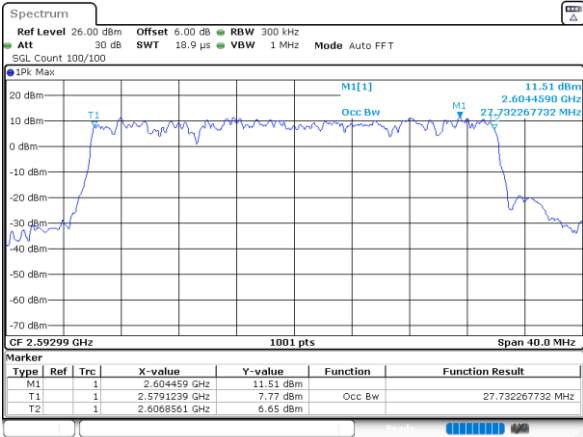


Date: 8,DEC,2022 08:47:45

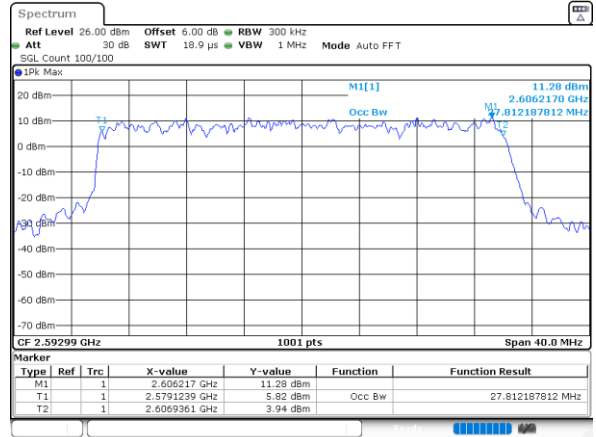


30MHz CP

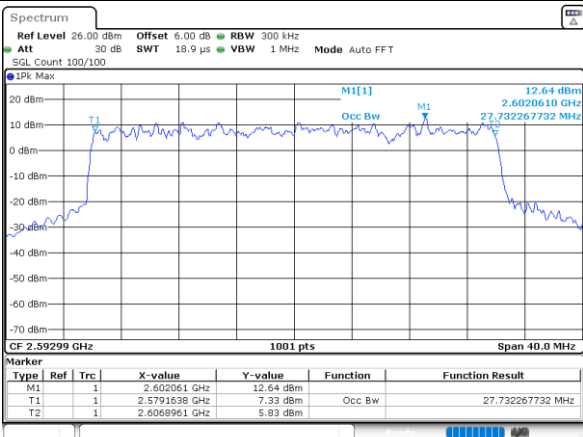
QPSK



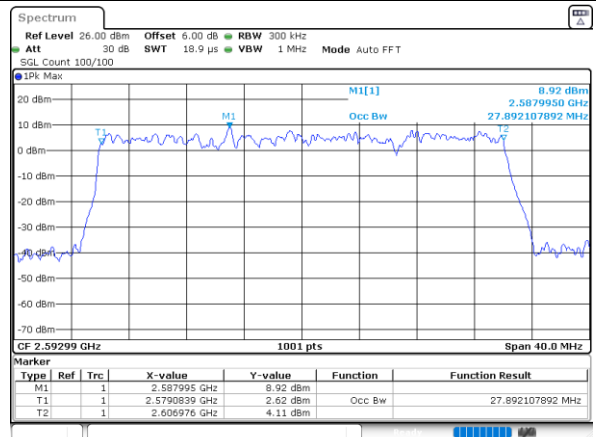
16QAM



64QAM



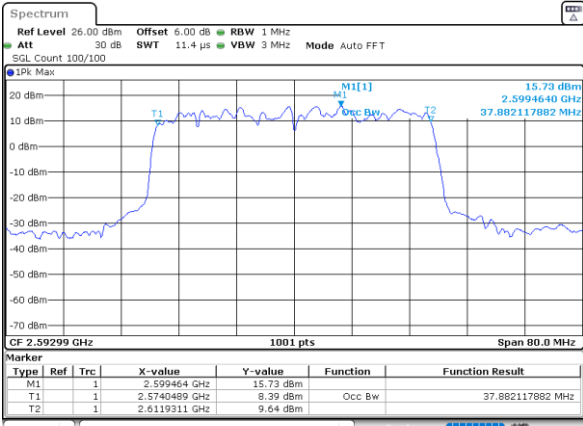
256QAM





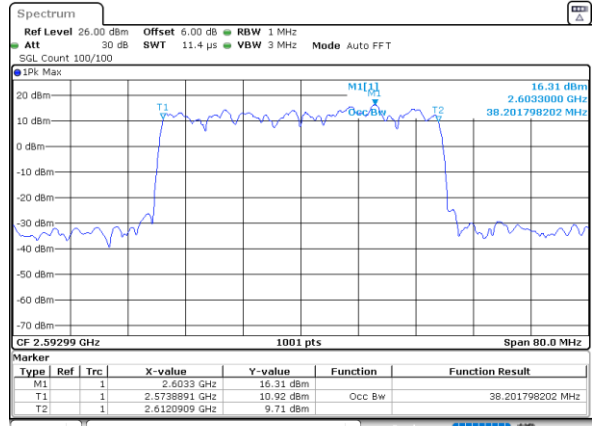
40MHz CP

QPSK



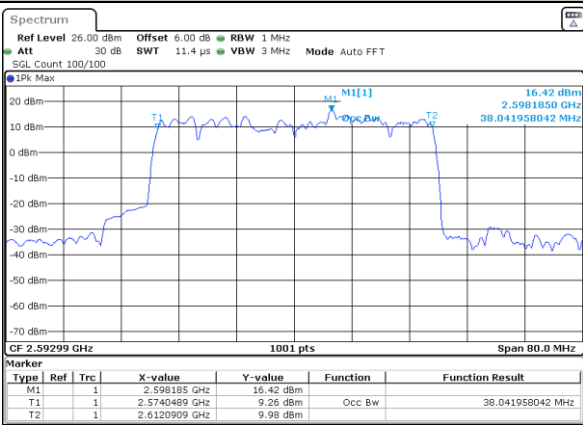
Date: 8,DEC,2022 08:49:136

16QAM



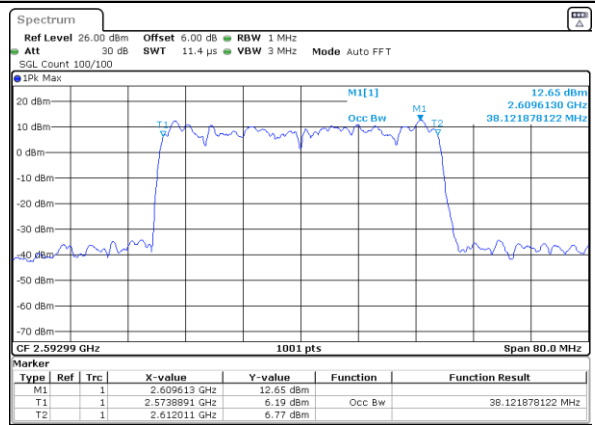
Date: 8,DEC,2022 08:49:152

64QAM



Date: 8,DEC,2022 08:50:06

256QAM

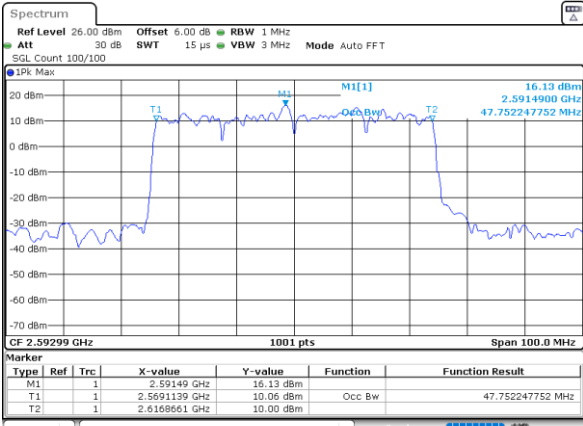


Date: 8,DEC,2022 08:50:22



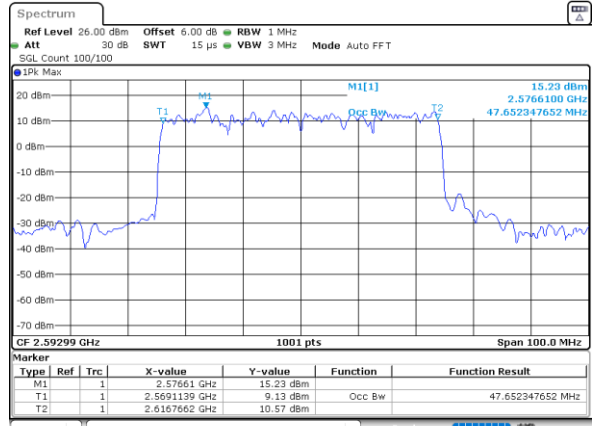
50MHz CP

QPSK



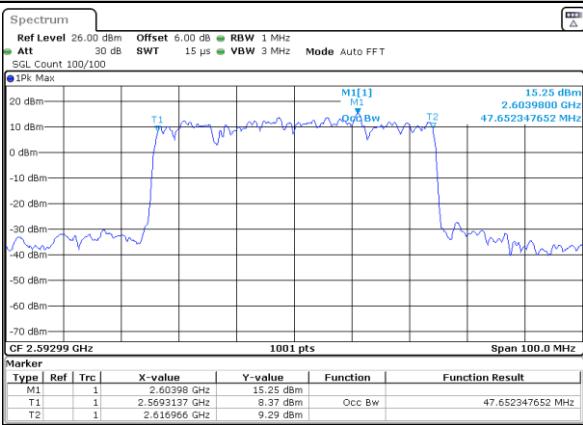
Date: 8,DEC,2022 08:10:13

16QAM



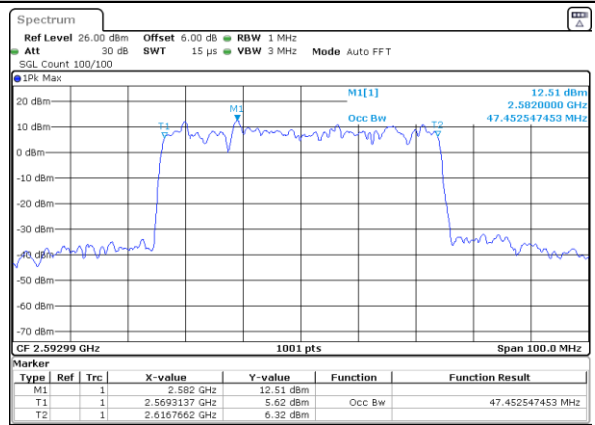
Date: 8,DEC,2022 08:51:15

64QAM



Date: 8,DEC,2022 08:50:59

256QAM

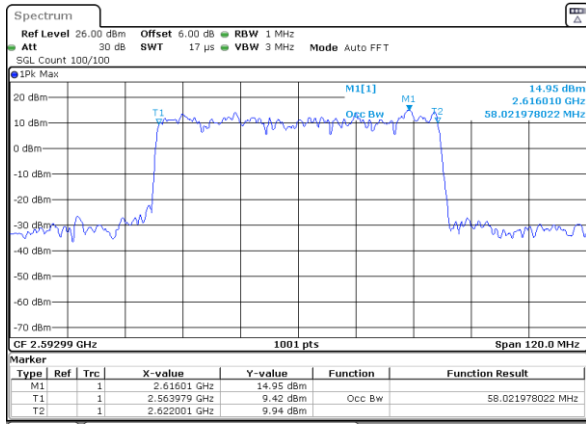


Date: 8,DEC,2022 08:50:45



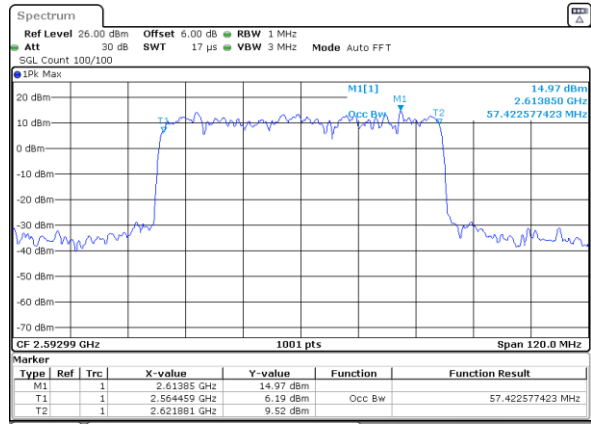
60MHz CP

QPSK



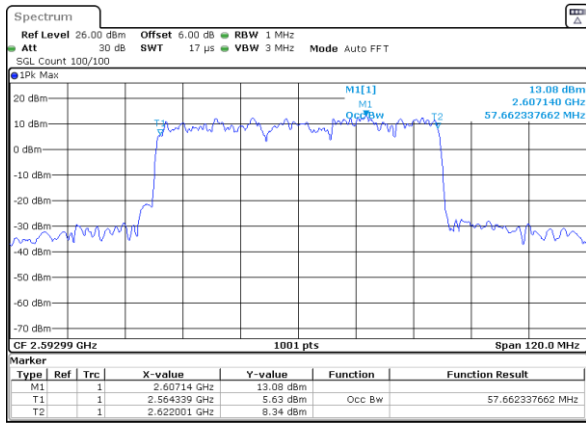
Date: 8,DEC,2022 08:52:19

16QAM



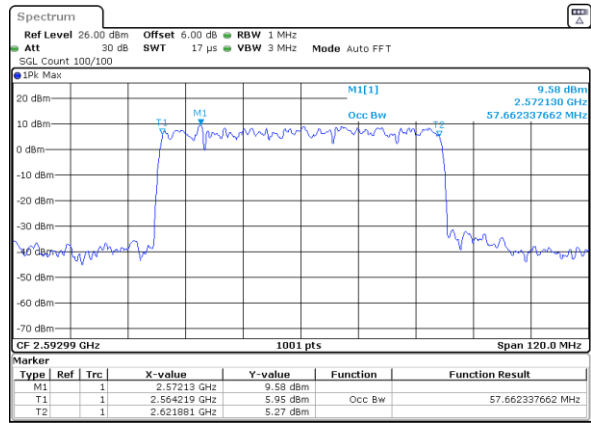
Date: 8,DEC,2022 08:52:35

64QAM



Date: 8,DEC,2022 08:52:51

256QAM

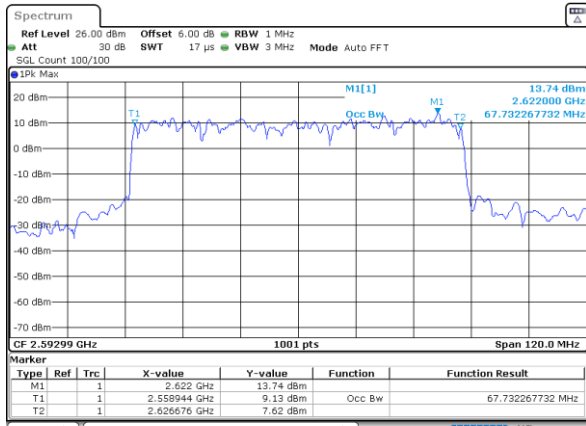


Date: 8,DEC,2022 08:53:07



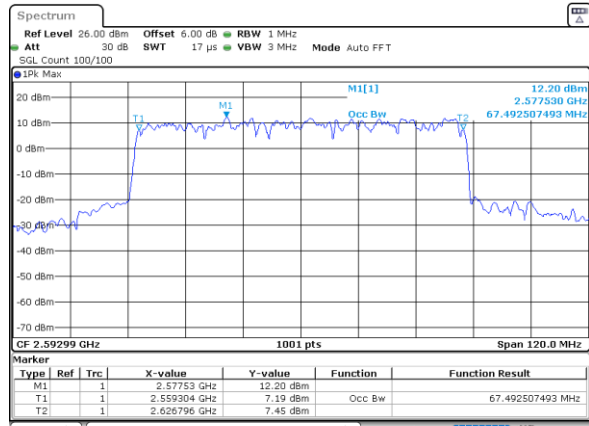
70MHz CP

QPSK



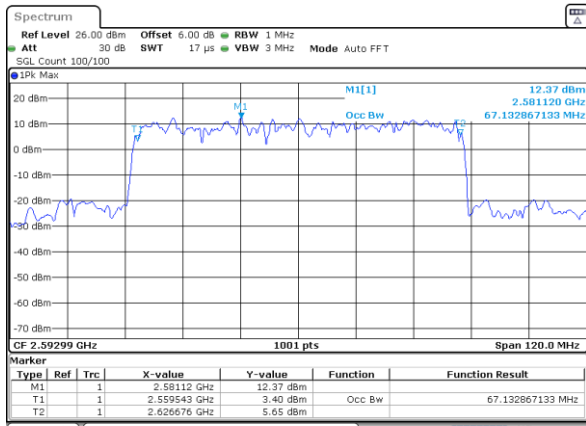
Date: 8_DEC.2022 08:55:15

16QAM



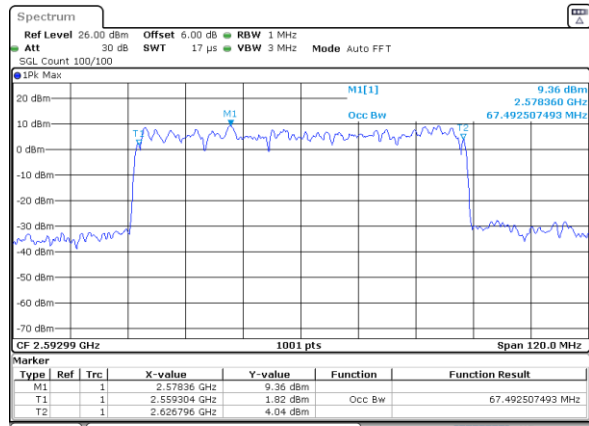
Date: 8_DEC.2022 08:54:59

64QAM



Date: 8_DEC.2022 08:54:43

256QAM

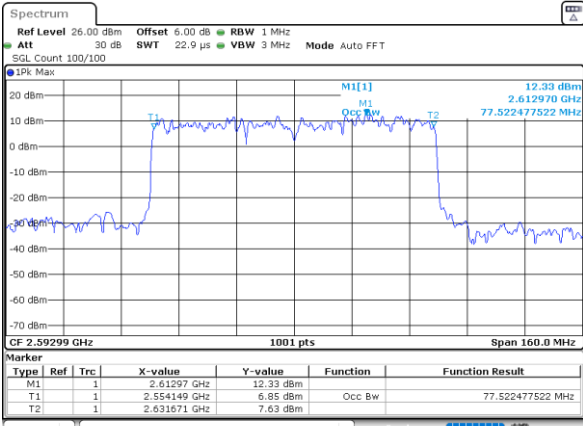


Date: 8_DEC.2022 08:54:27



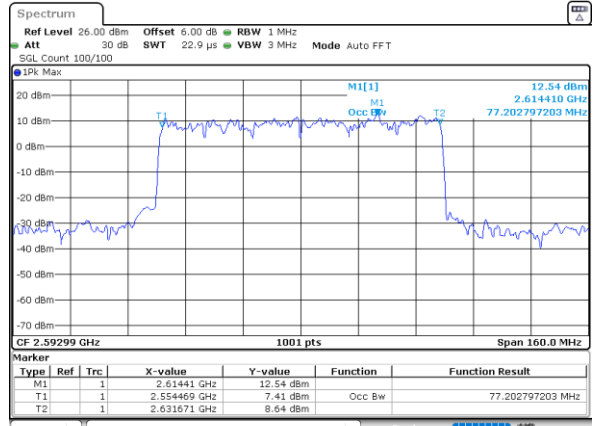
80MHz CP

QPSK



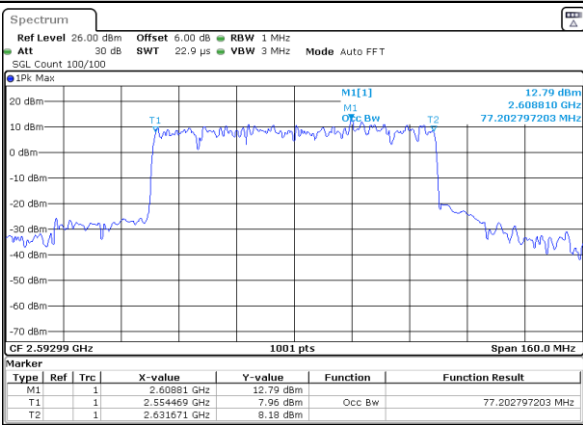
Date: 8,DEC,2022 08:55:44

16QAM



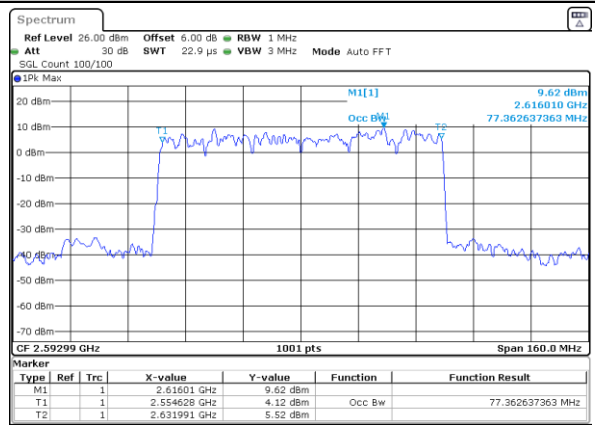
Date: 8,DEC,2022 08:55:59

64QAM



Date: 8,DEC,2022 08:56:16

256QAM

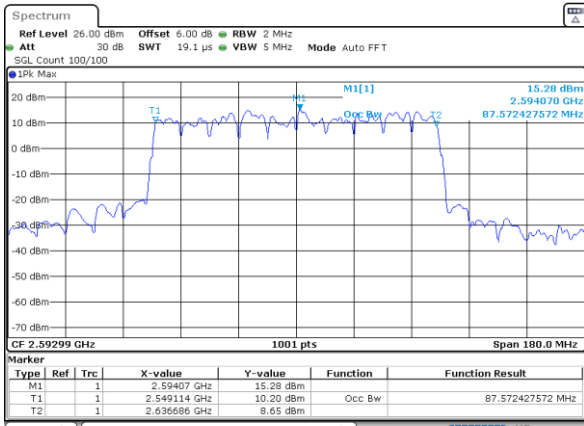


Date: 8,DEC,2022 08:56:34



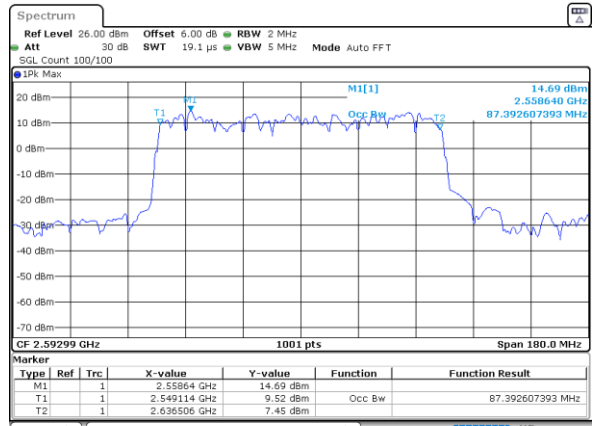
90MHz CP

QPSK



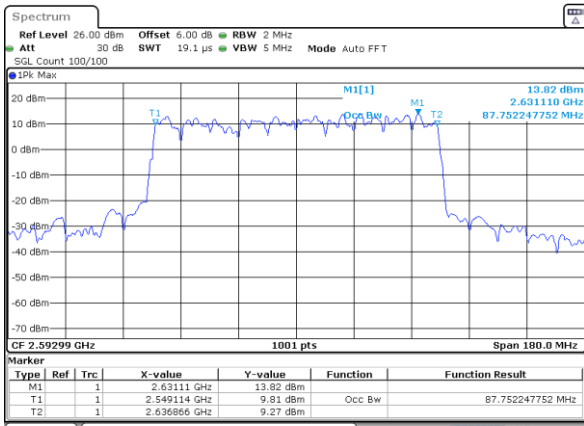
Date: 8,DEC,2022 08:58:00

16QAM



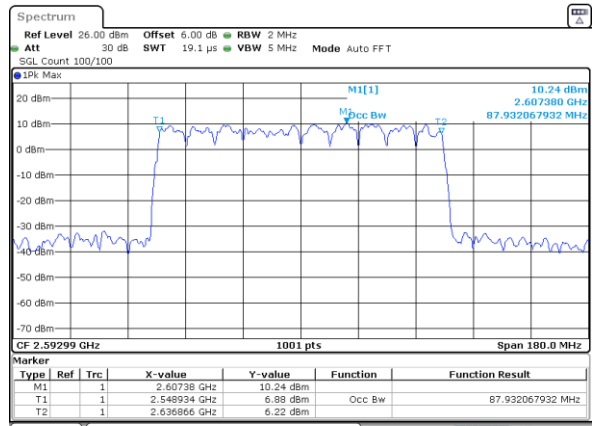
Date: 8,DEC,2022 08:57:41

64QAM



Date: 8,DEC,2022 08:57:23

256QAM

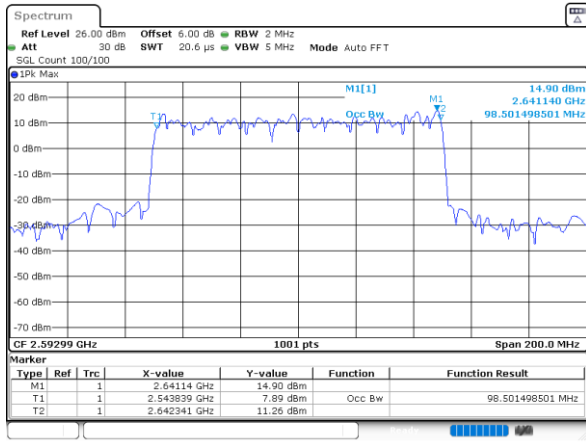


Date: 8,DEC,2022 08:57:04



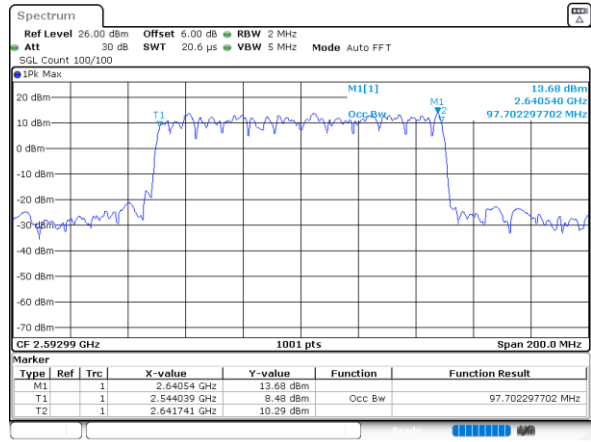
100MHz CP

QPSK



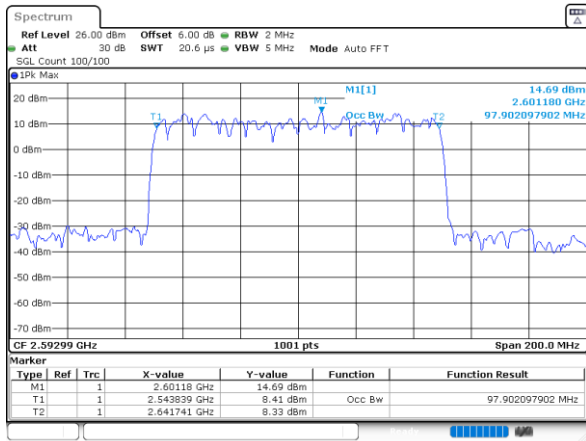
Date: 8.DECE.2022 08:58:46

16QAM



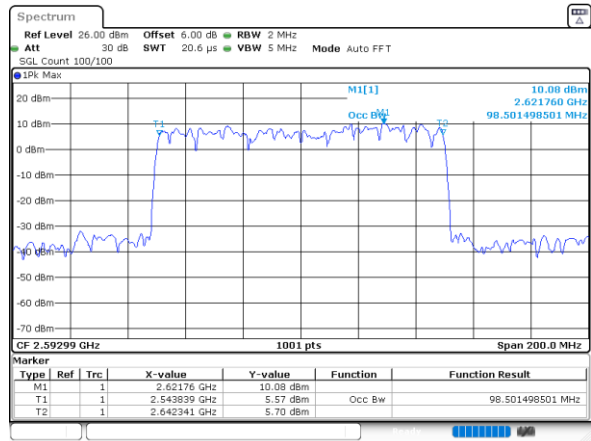
Date: 8.DECE.2022 08:59:13

64QAM



Date: 8.DECE.2022 08:59:33

256QAM



Date: 8.DECE.2022 08:59:53

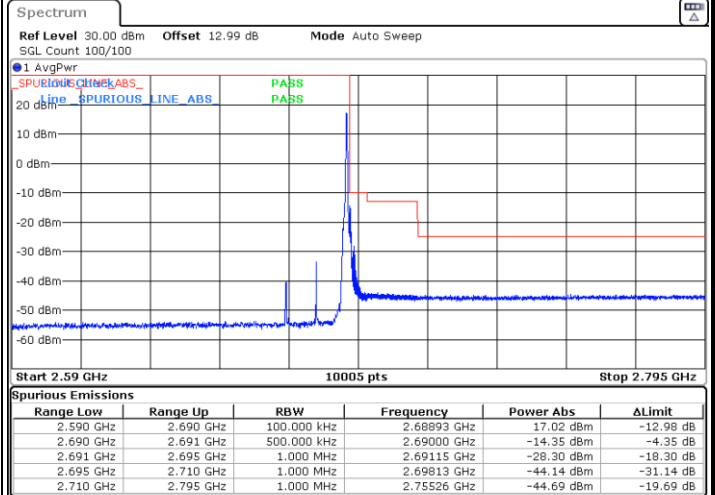
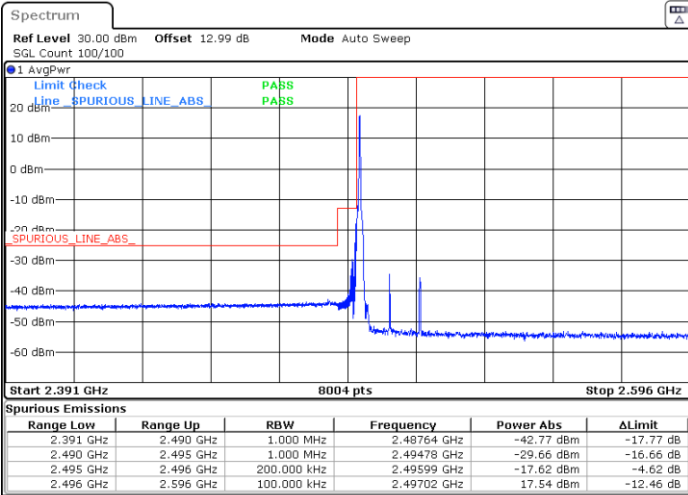


Conducted Band Edge

FR1 n41 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

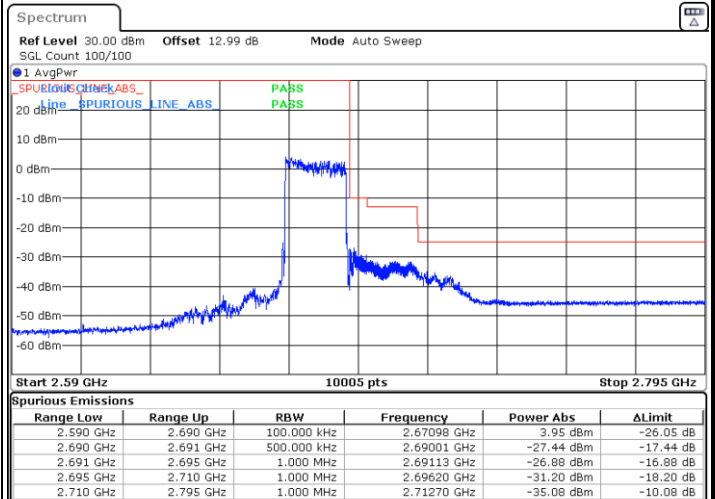
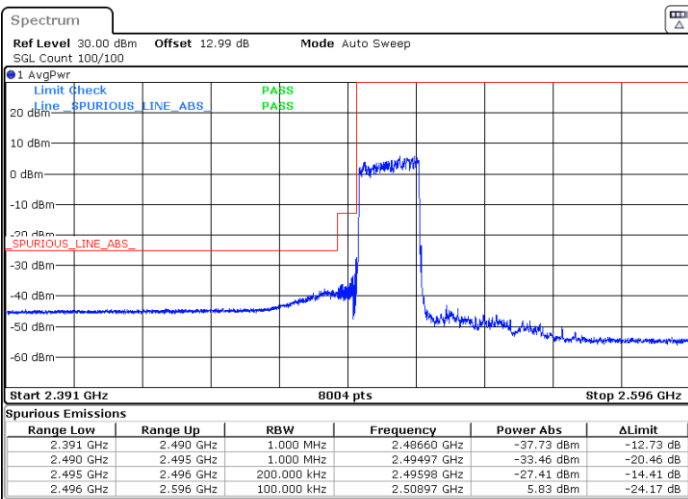


Date: 8.DEC.2022 07:12:15

Date: 16.DEC.2022 08:36:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 8.DEC.2022 07:13:21

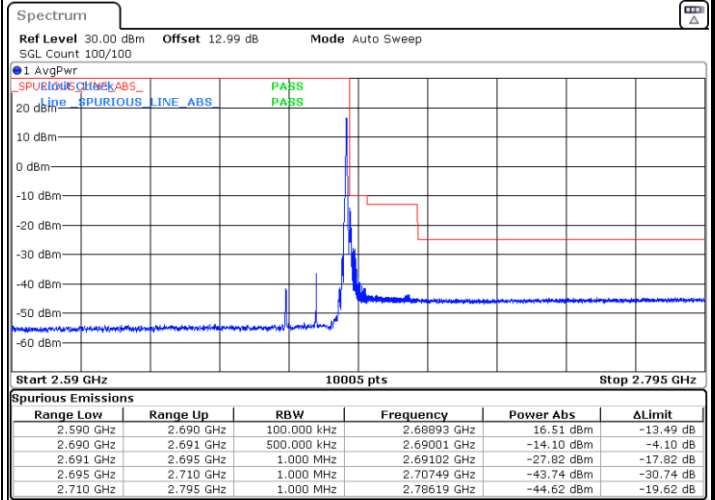
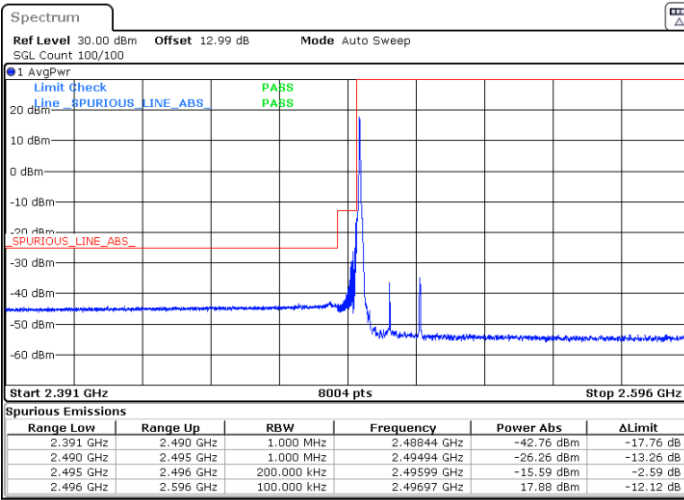
Date: 16.DEC.2022 08:33:40



FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

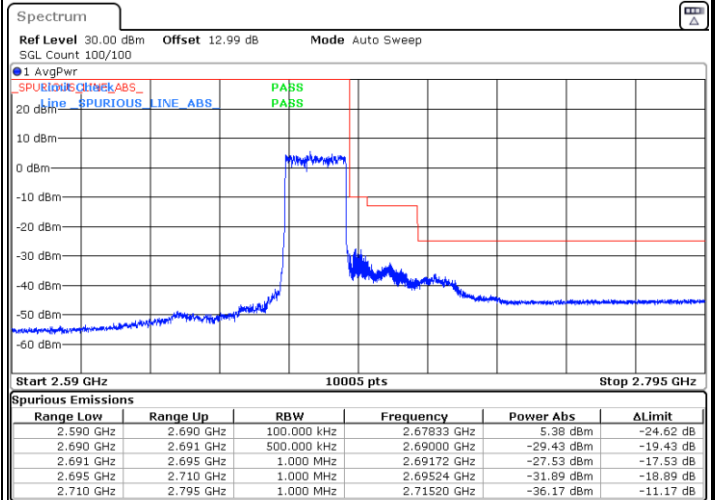
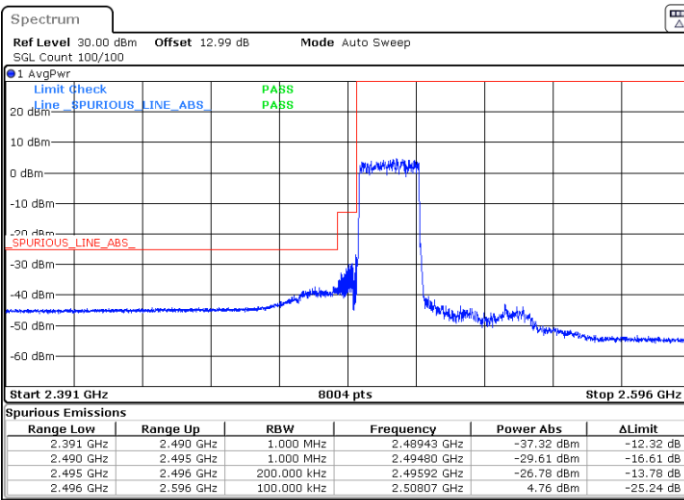


Date: 8.DEC.2022 07:12:30

Date: 16.DEC.2022 08:35:45

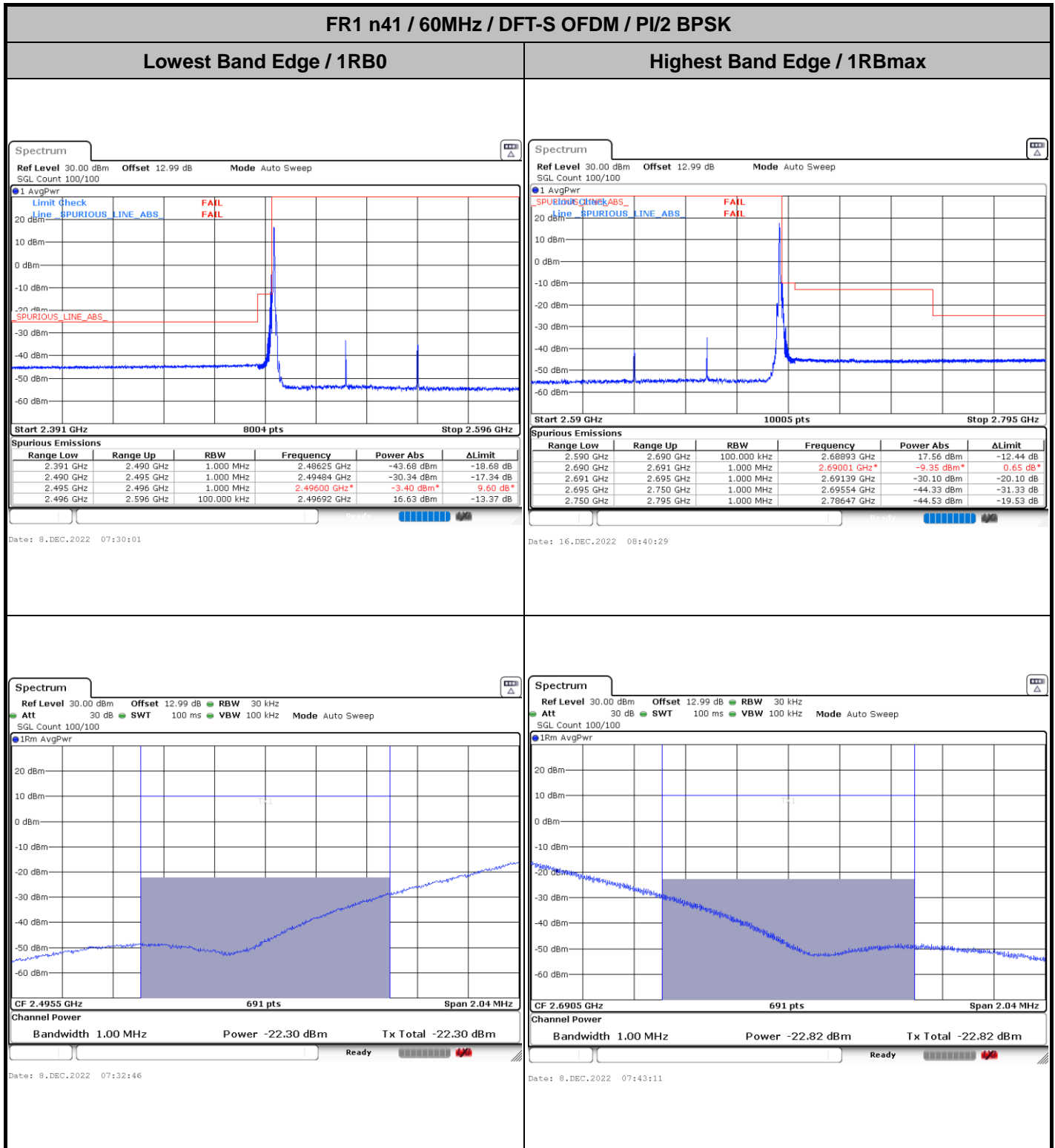
Lowest Band Edge / Full RB

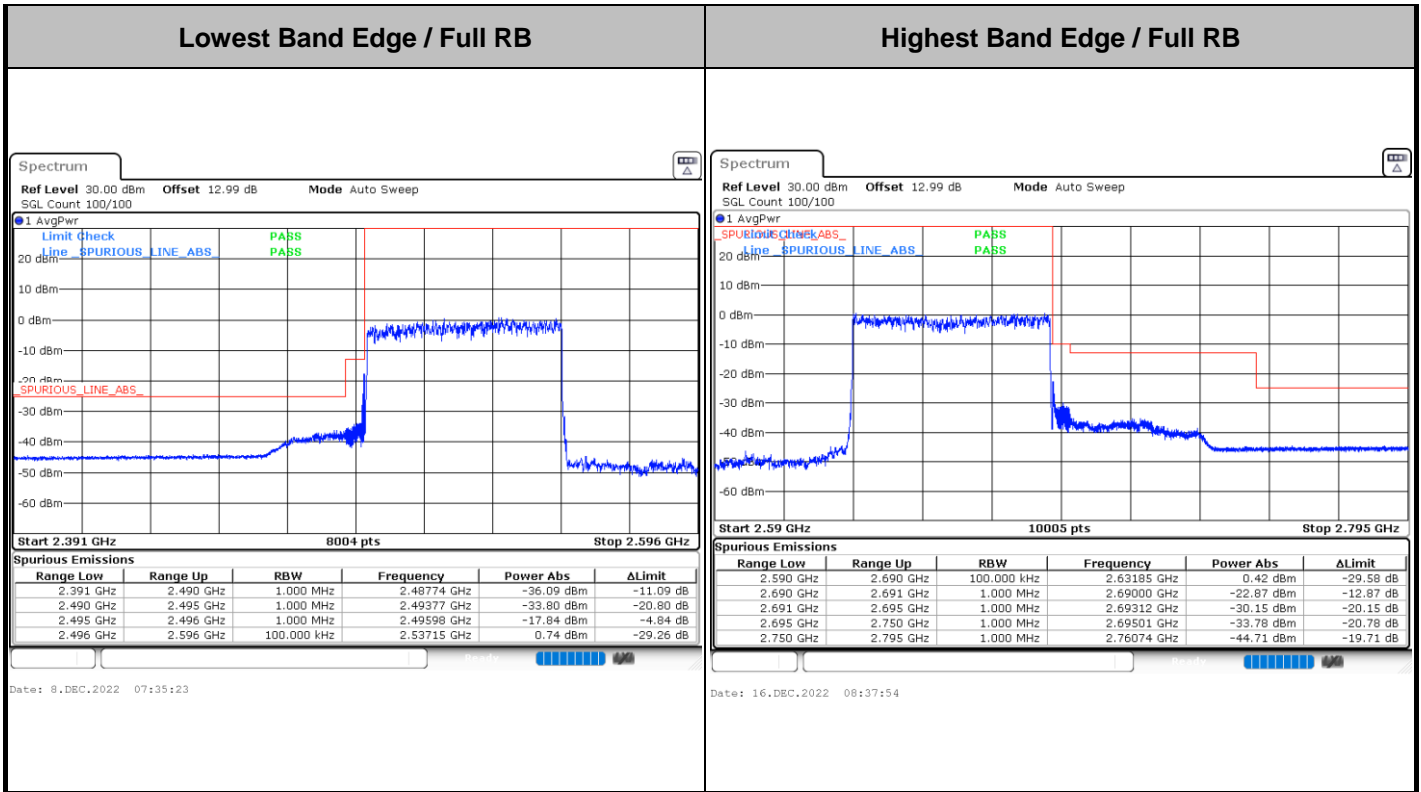
Highest Band Edge / Full RB



Date: 8.DEC.2022 07:13:07

Date: 16.DEC.2022 08:35:09



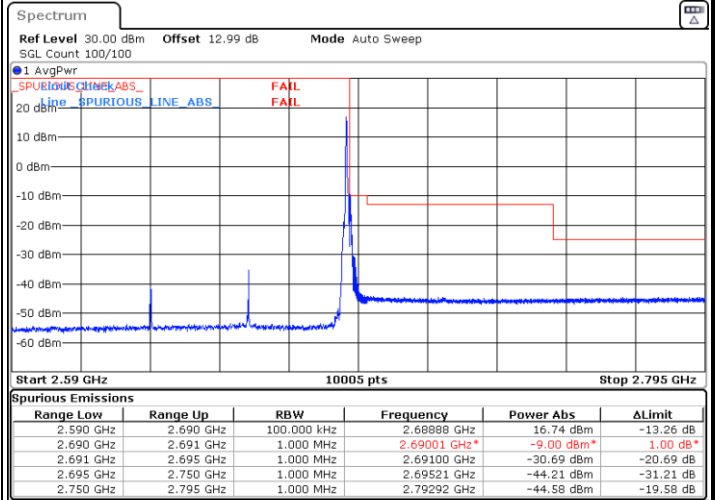
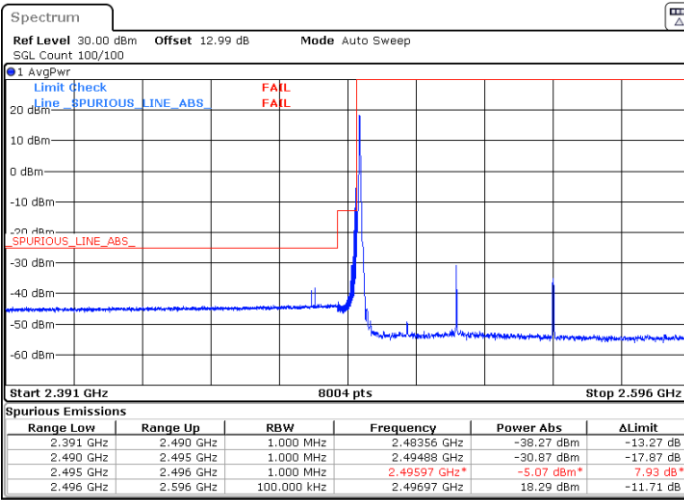




FR1 n41 / 60MHz / DFT-S OFDM / QPSK

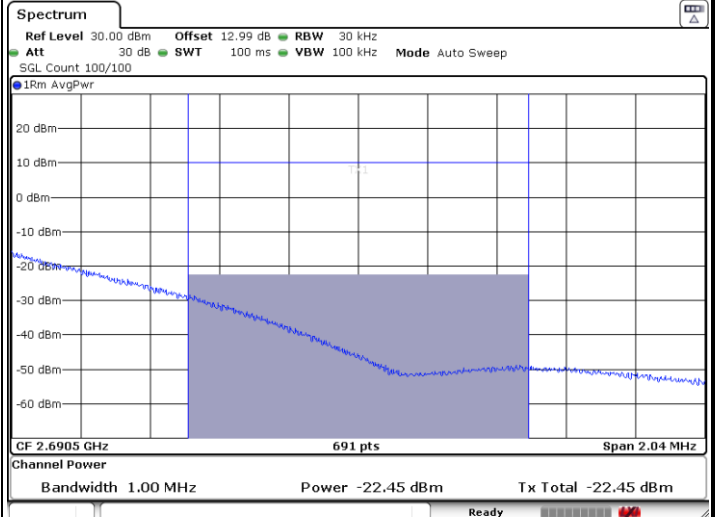
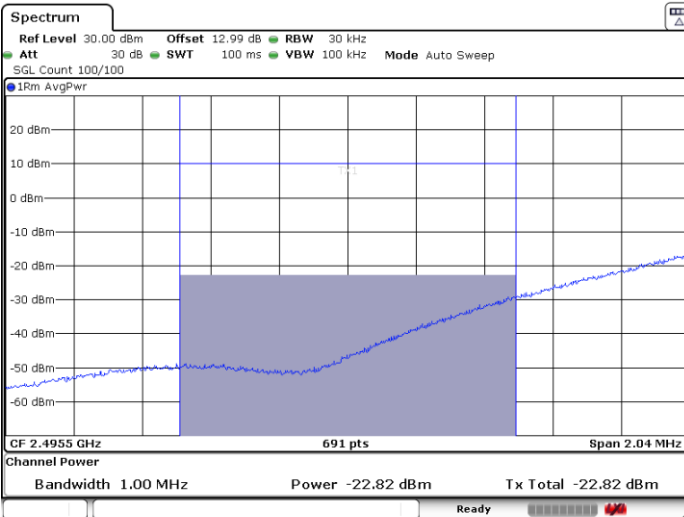
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



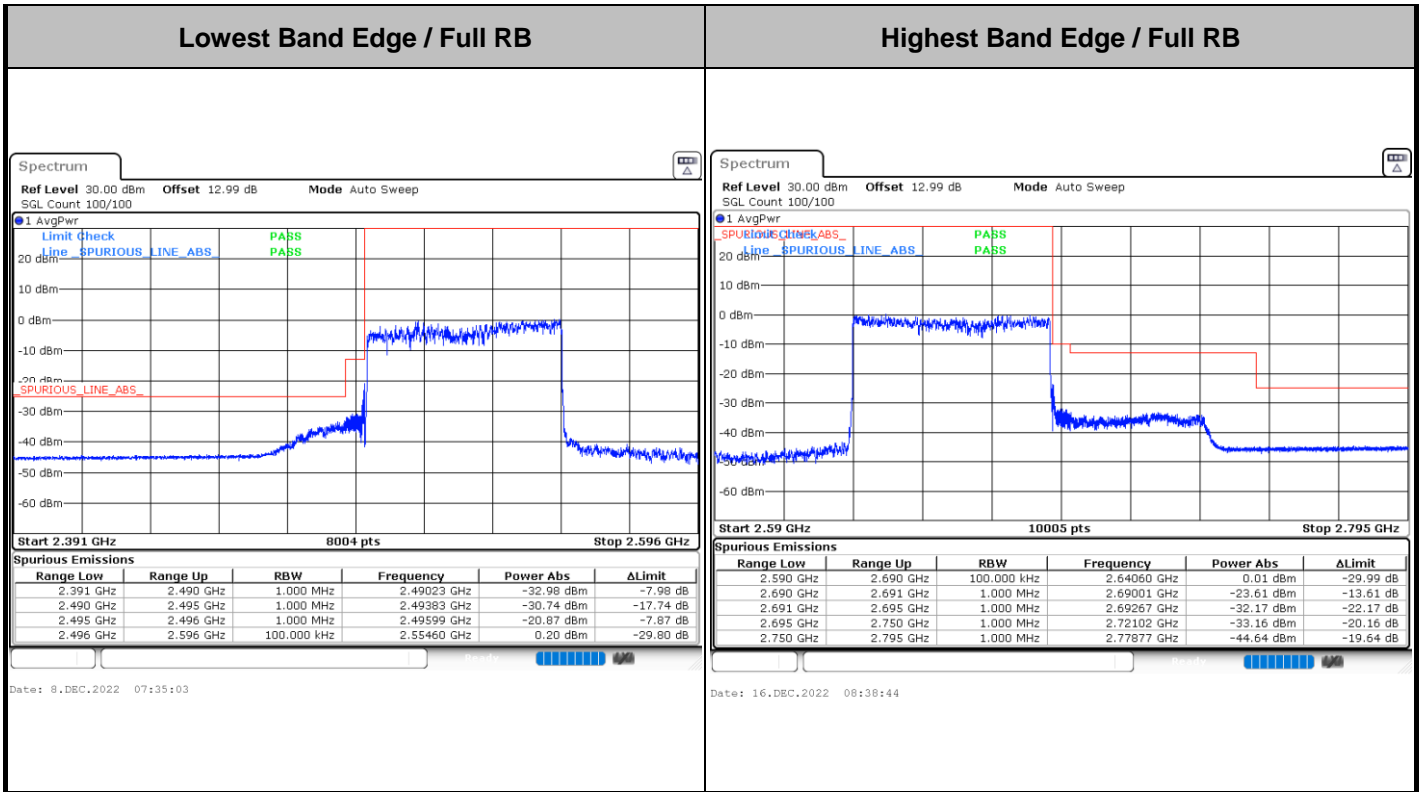
Date: 8.DEC.2022 07:34:16

Date: 16.DEC.2022 08:39:40



Date: 8.DEC.2022 07:33:32

Date: 8.DEC.2022 07:43:49

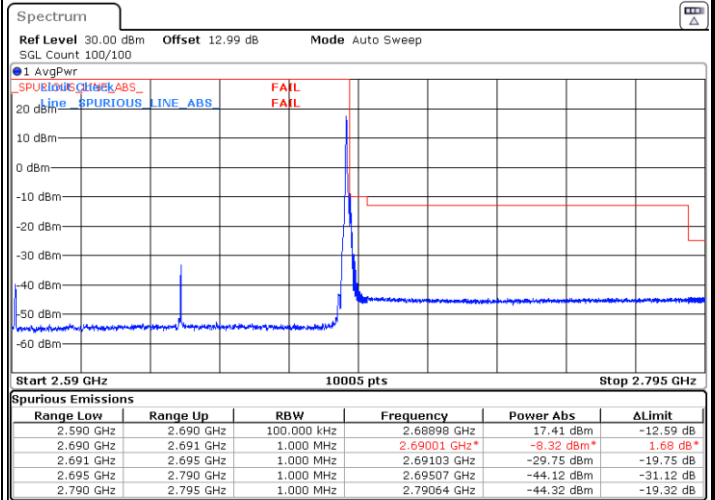
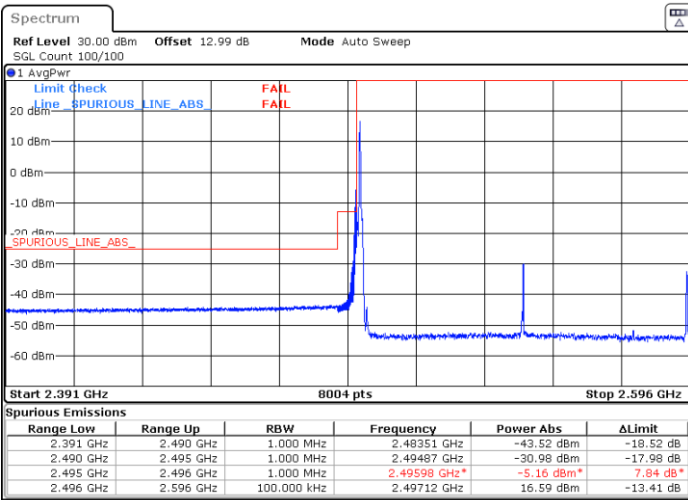




FR1 n41 / 100MHz / DFT-S OFDM / PI/2 BPSK

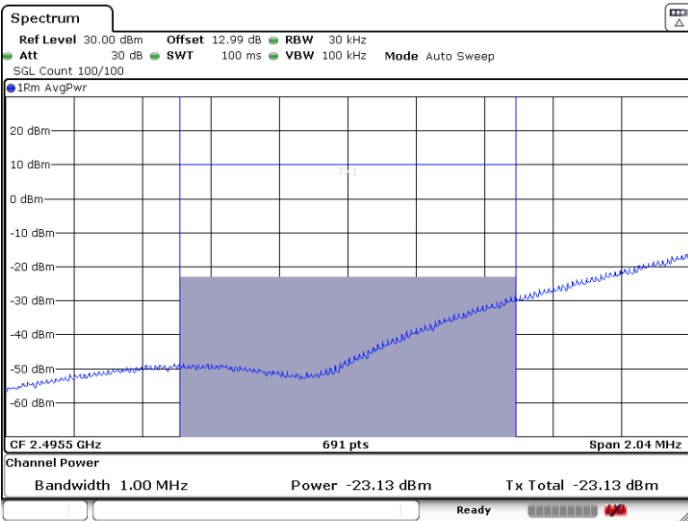
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

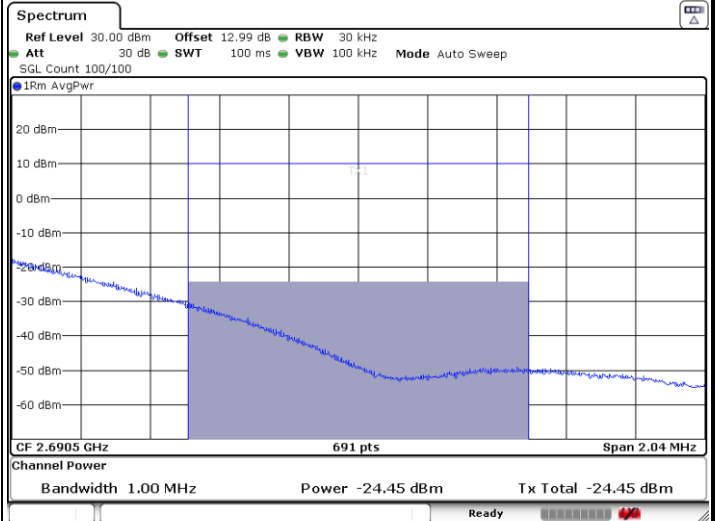


Date: 8.DEC.2022 08:06:32

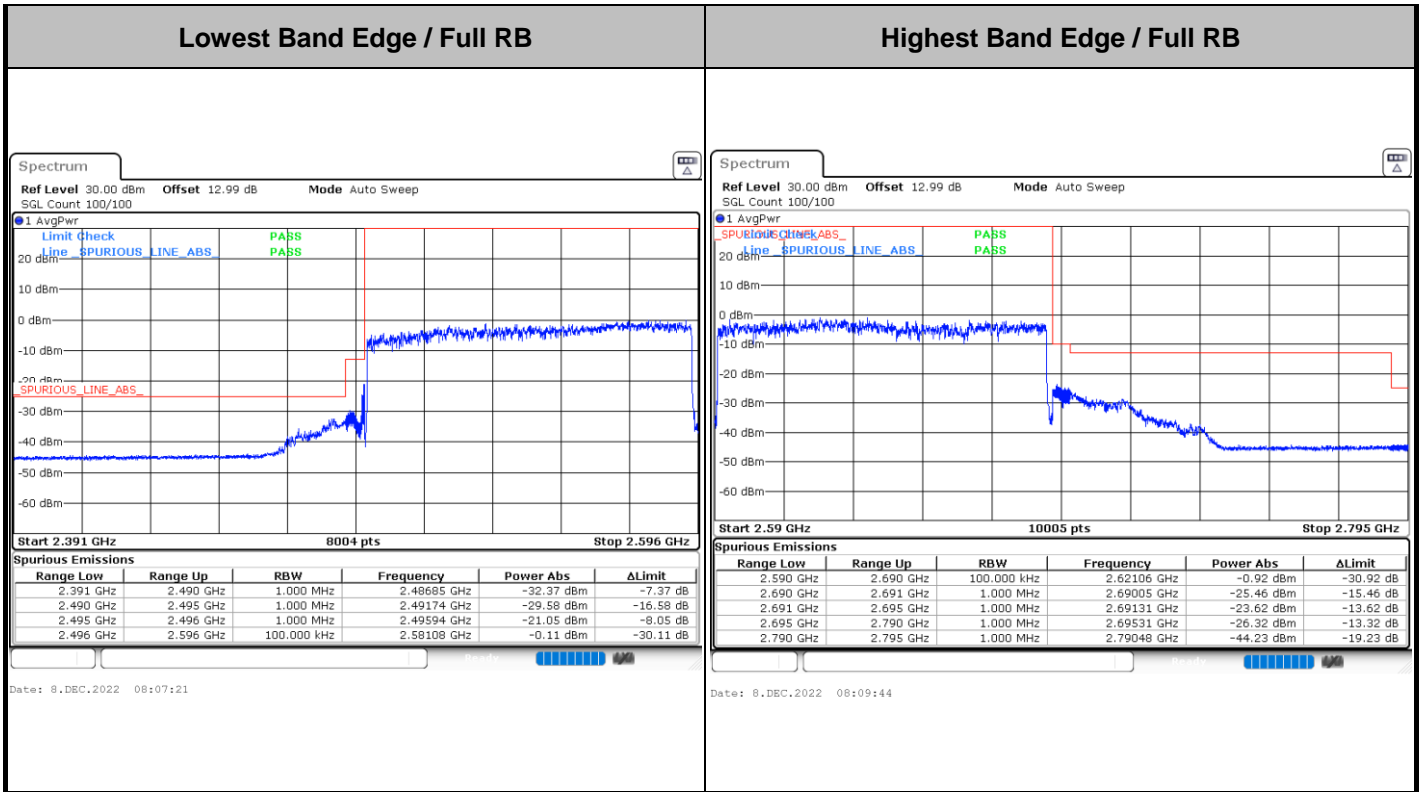
Date: 8.DEC.2022 08:10:19



Date: 8.DEC.2022 08:05:27



Date: 8.DEC.2022 08:12:15

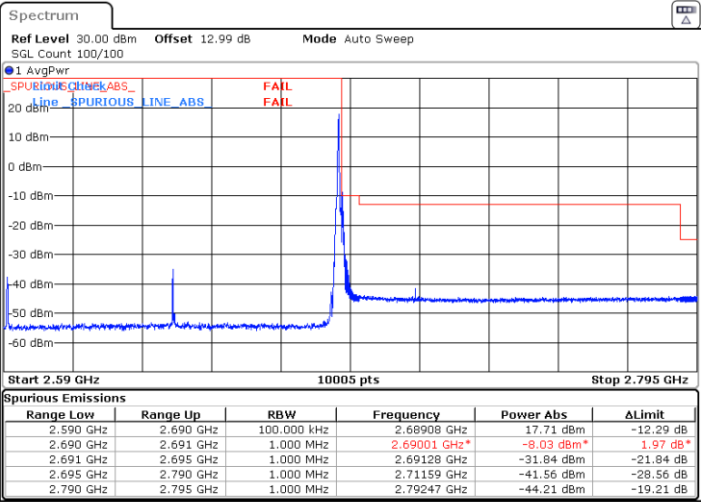
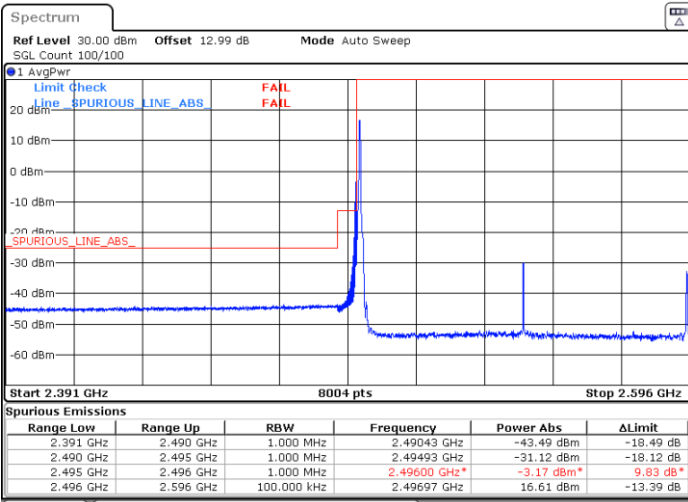




FR1 n41 / 100MHz / DFT-S OFDM / QPSK

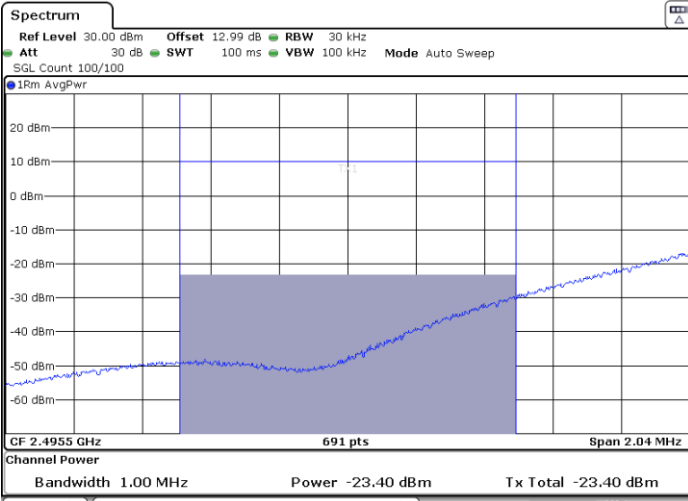
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

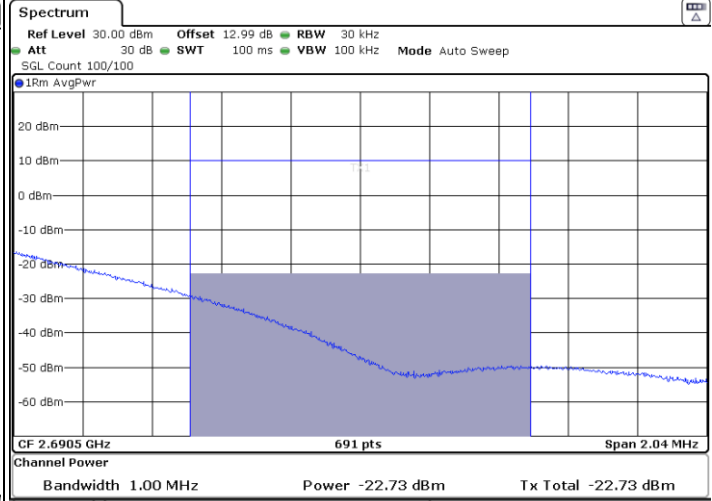


Date: 8.DEC.2022 08:02:36

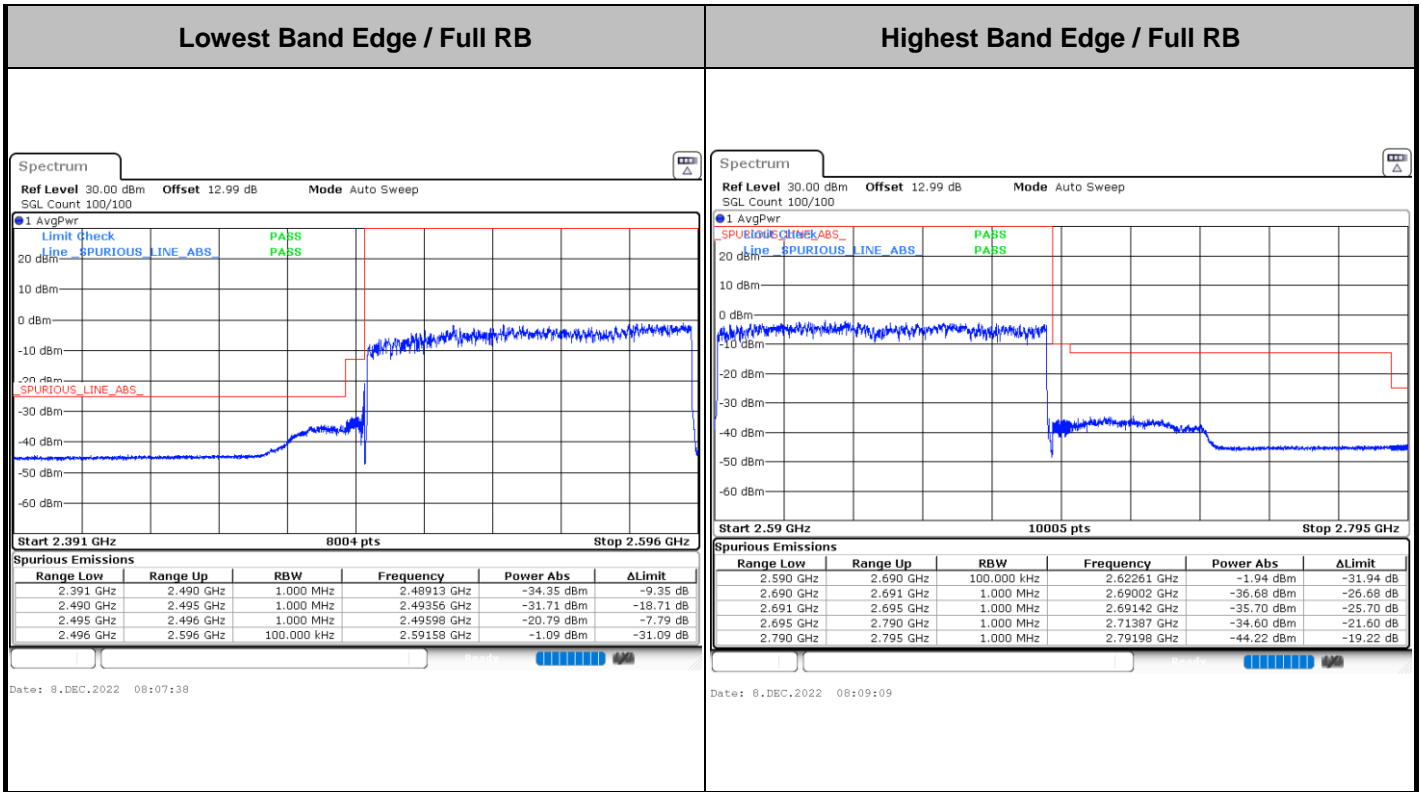
Date: 8.DEC.2022 08:10:45



Date: 8.DEC.2022 08:05:59



Date: 8.DEC.2022 08:11:44



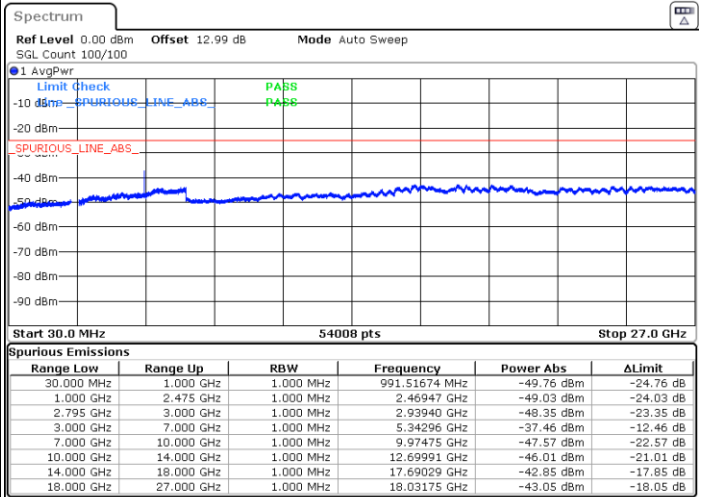
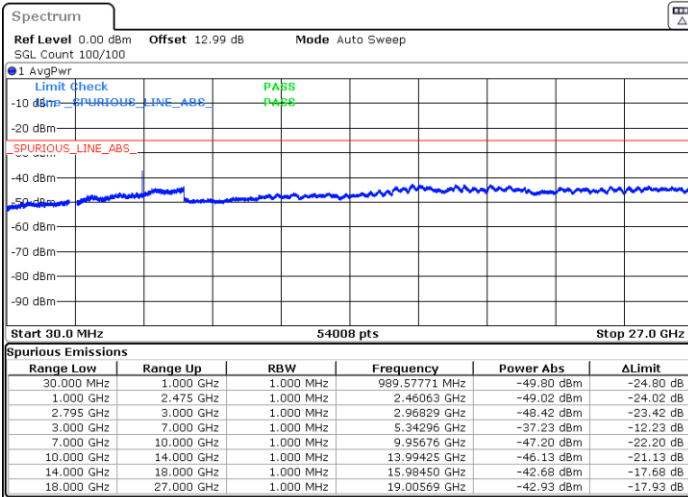


Conducted Spurious Emission

FR1 n41 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

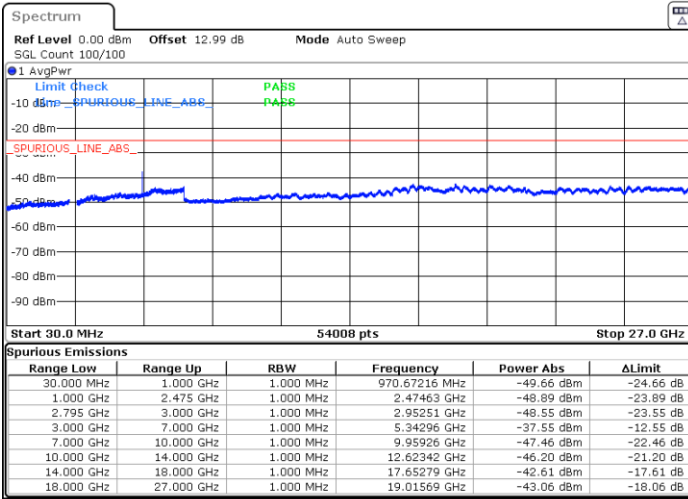
Middle Channel / 1RB1



Date: 8.DEC.2022 07:28:12

Date: 8.DEC.2022 07:25:23

Highest Channel / 1RB1



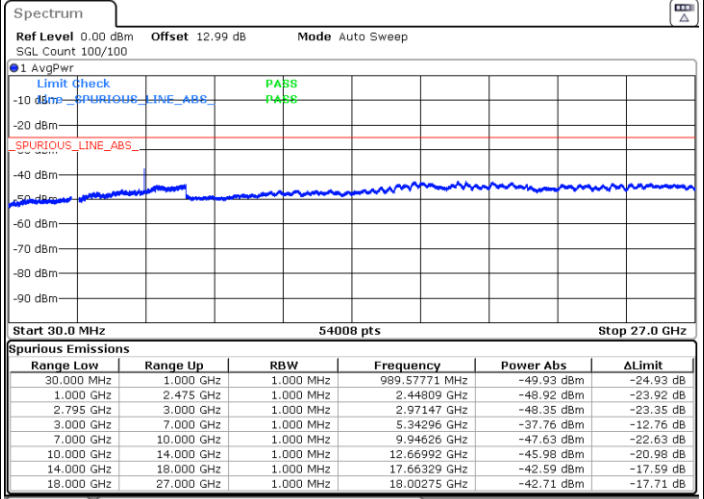
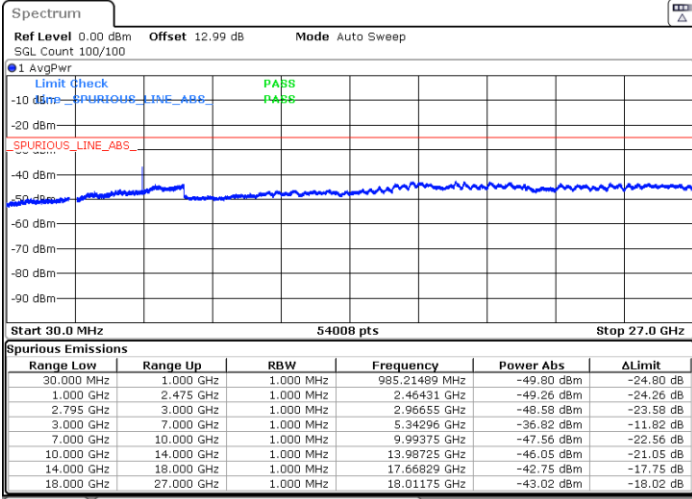
Date: 8.DEC.2022 07:24:24



FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

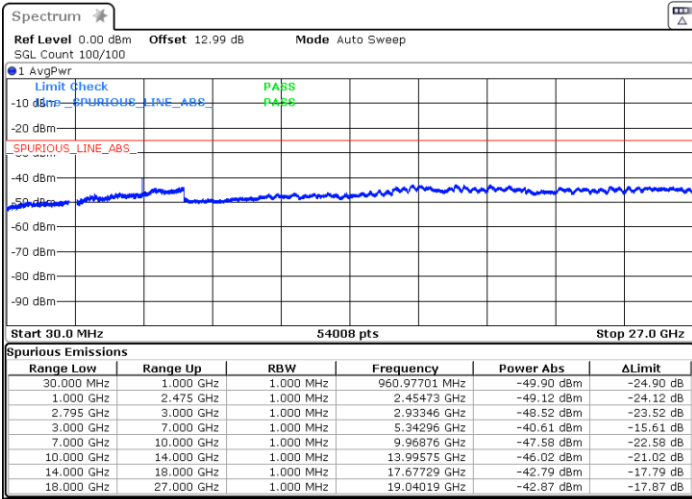
Middle Channel / 1RB1



Date: 8.DEC.2022 07:27:20

Date: 8.DEC.2022 07:26:28

Highest Channel / 1RB1



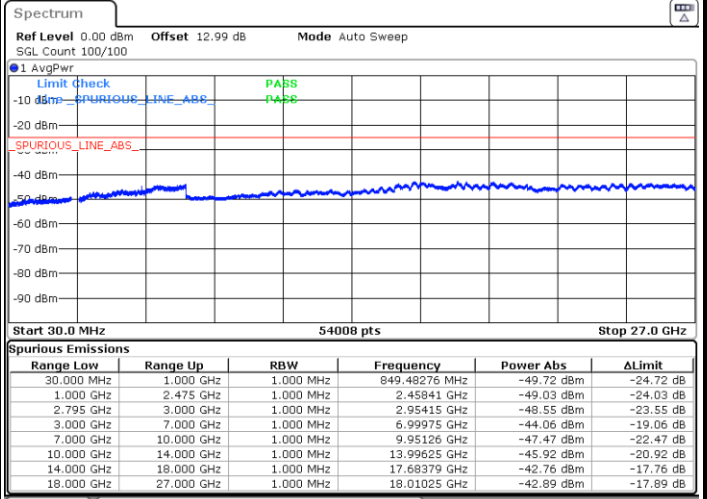
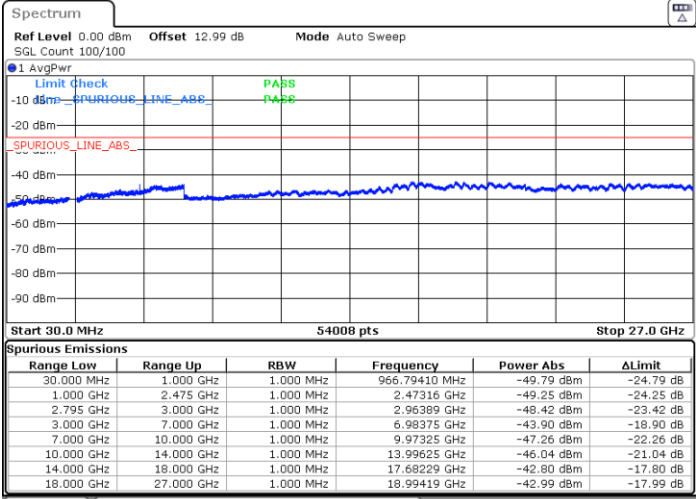
Date: 8.DEC.2022 07:23:18



FR1 n41 /60MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

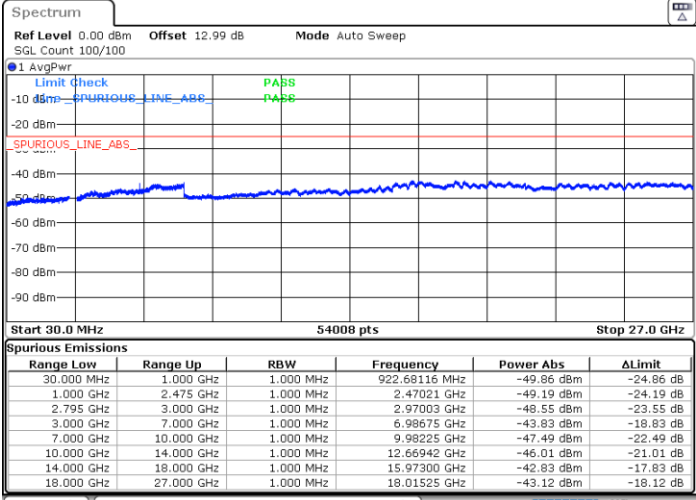
Middle Channel / 1RB1



Date: 8.DEC.2022 07:53:55

Date: 8.DEC.2022 07:51:07

Highest Channel / 1RB1



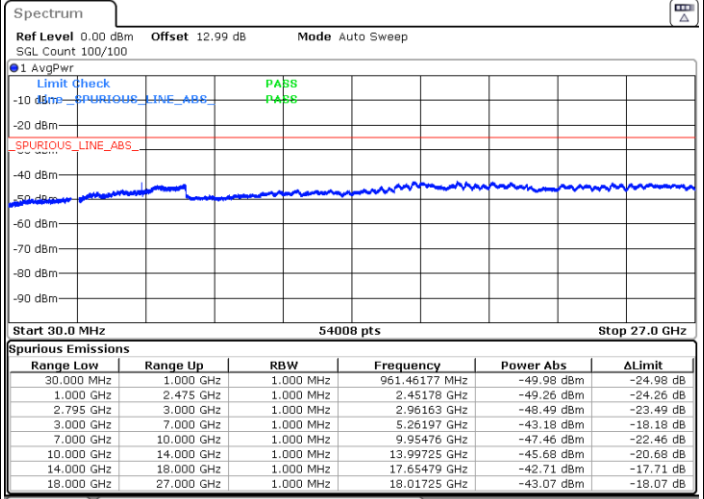
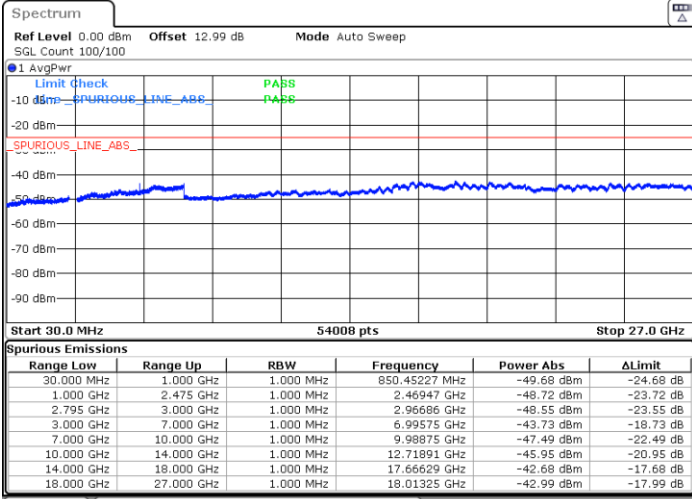
Date: 8.DEC.2022 07:45:11



FR1 n41 /60MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

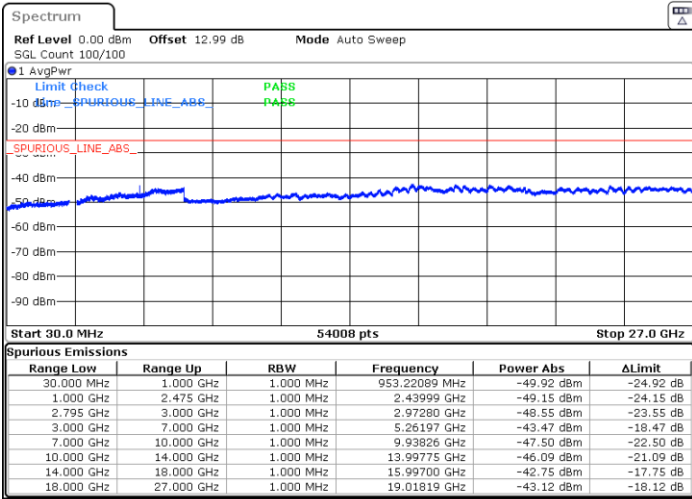
Middle Channel / 1RB1



Date: 8.DEC.2022 07:56:59

Date: 8.DEC.2022 07:47:37

Highest Channel / 1RB1



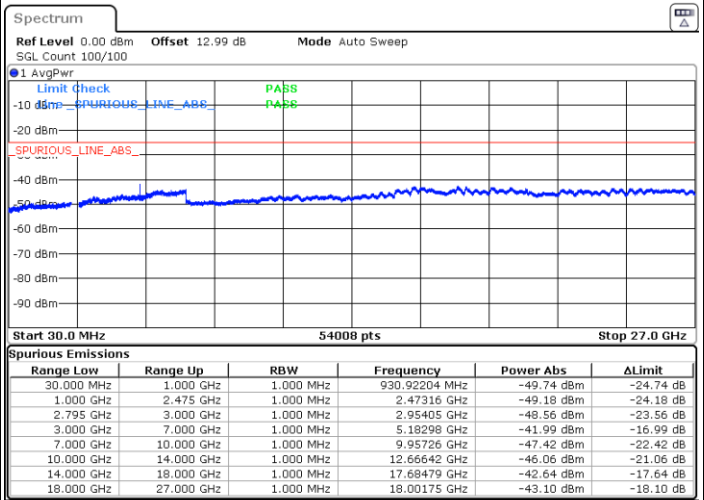
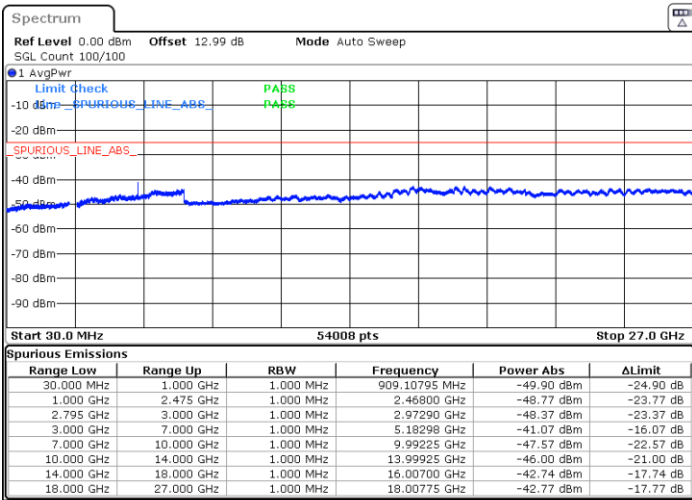
Date: 8.DEC.2022 07:46:26



FR1 n41 /100MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

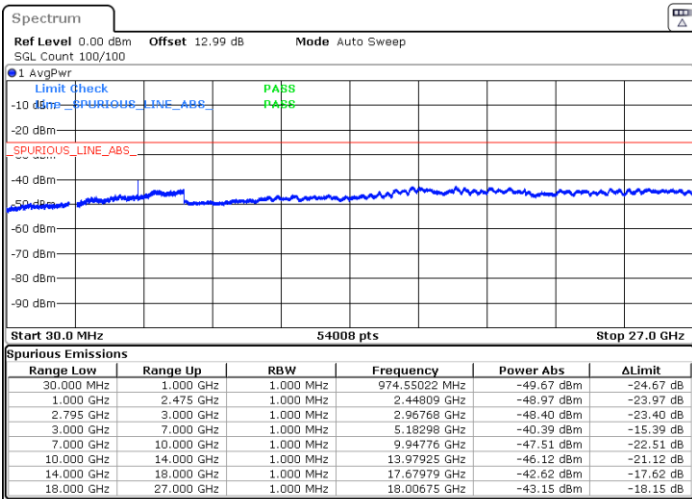
Middle Channel / 1RB1



Date: 8.DEC.2022 08:21:19

Date: 8.DEC.2022 08:17:34

Highest Channel / 1RB1



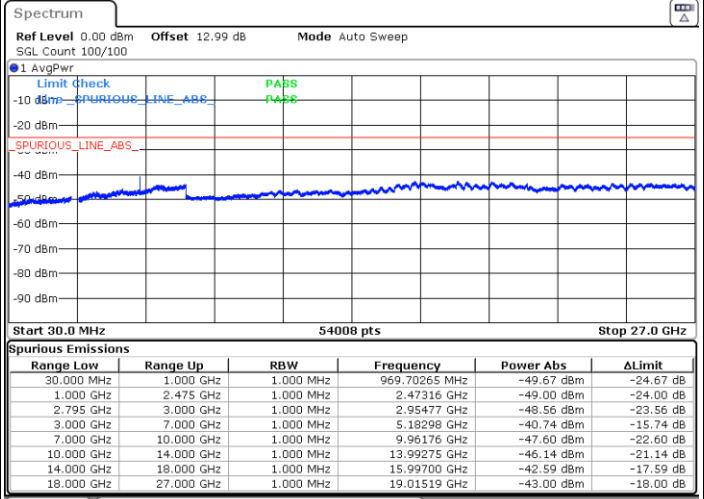
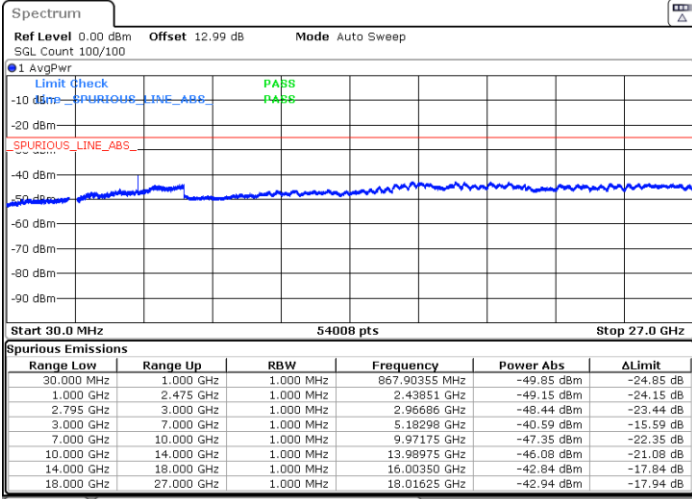
Date: 8.DEC.2022 08:15:23



FR1 n41 /100MHz / DFT-S OFDM /QPSK

Lowest Channel / 1RB1

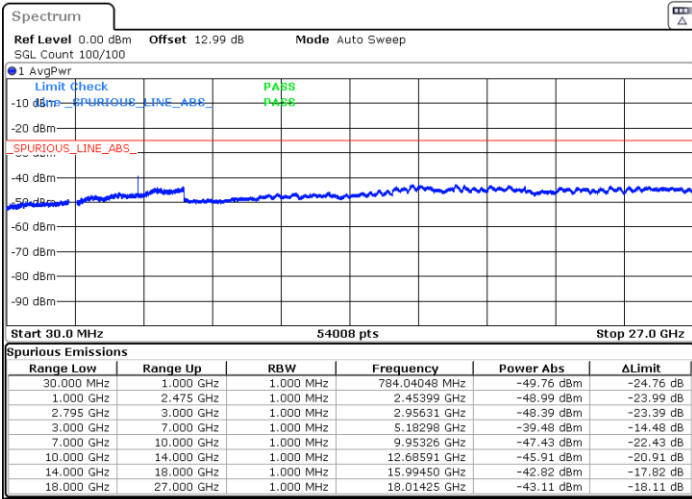
Middle Channel / 1RB1



Date: 8.DEC.2022 08:20:26

Date: 8.DEC.2022 08:19:13

Highest Channel / 1RB1



Date: 8.DEC.2022 08:13:38



Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0041	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0020	
0	Normal Voltage	0.0031	
-10	Normal Voltage	0.0046	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0031	

Note:

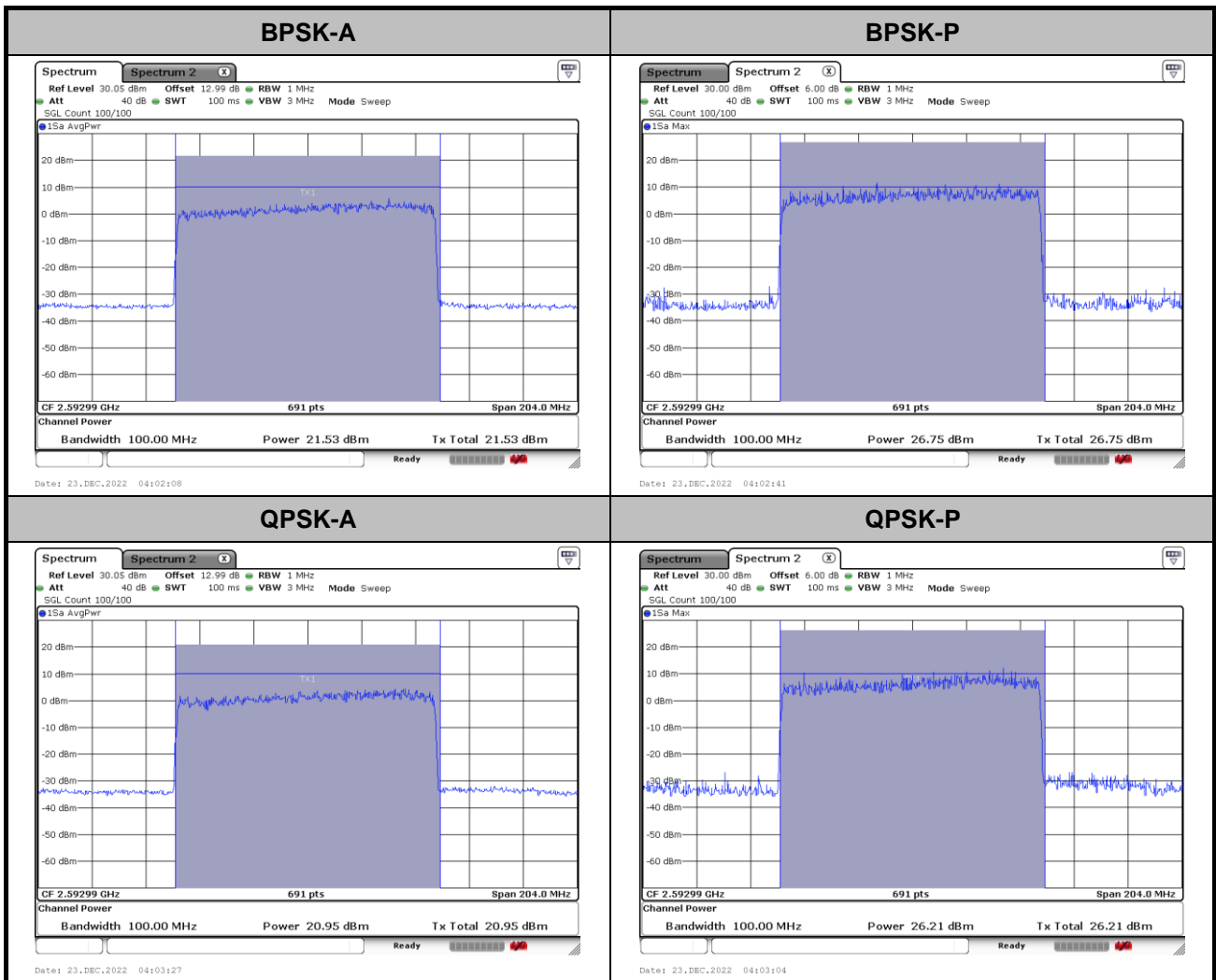
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n41(other PA)

Peak-to-Average Ratio

Mode	FR1 n41 / 100MHz / DFT-S OFDM				
Mod.	100M				Limit: 13dB
RB Size	BPSK	QPSK			Result
Middle CH	5.22	5.26			PASS





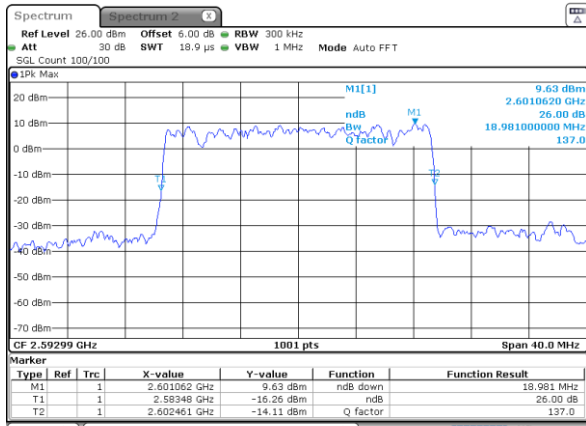
26dB Bandwidth

Mode	FR1 n41 : 26dB BW(20 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	19.98	19.18	19.02	19.26
Mode	FR1 n41 : 26dB BW(30 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	28.77	28.85	29.93	29.09
Mode	FR1 n41 : 26dB BW(40 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	40.28	40.20	40.20	40.36
Mode	FR1 n41 : 26dB BW(50 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	49.65	49.65	49.65	49.75
Mode	FR1 n41 : 26dB BW(60 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	60.30	60.54	60.42	60.30
Mode	FR1 n41 : 26dB BW(70 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	70.17	70.17	70.17	70.01
Mode	FR1 n41 : 26dB BW(80 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	79.92	79.92	79.92	80.24
Mode	FR1 n41 : 26dB BW(90 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	91.89	92.25	91.71	92.07
Mode	FR1 n41 : 26dB BW(100 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	102.1	102.5	102.5	102.9



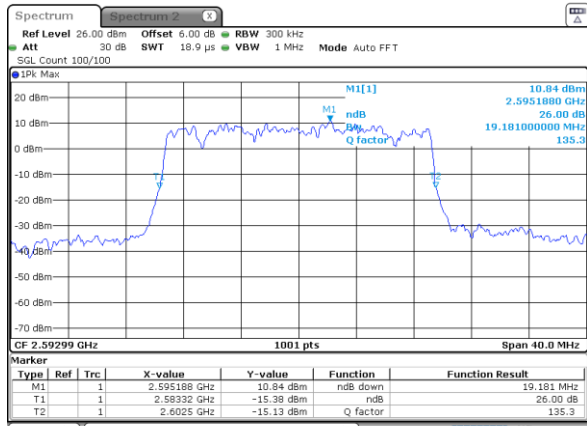
20MHz CP

QPSK



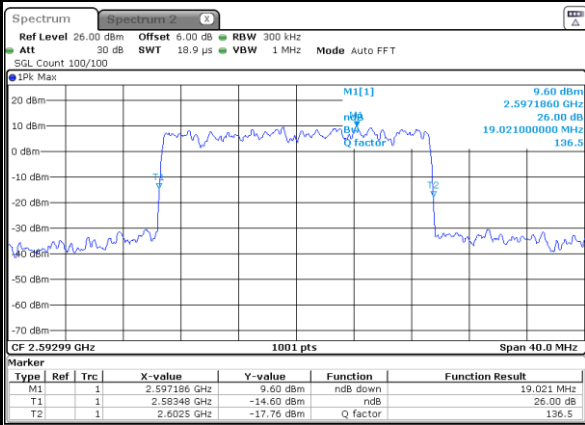
Date: 23, DEC, 2022 05:15:14

16QAM



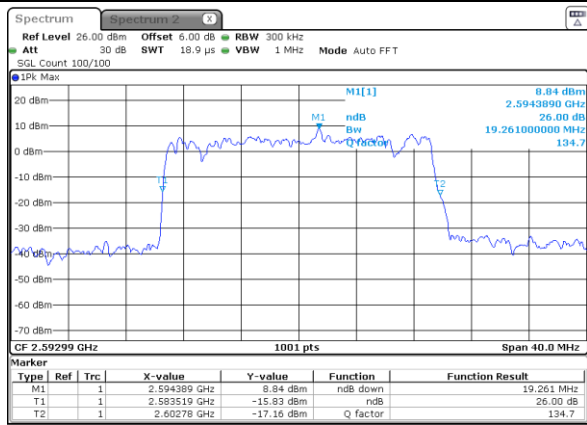
Date: 23, DEC, 2022 05:15:14

64QAM



Date: 23, DEC, 2022 05:15:15

256QAM

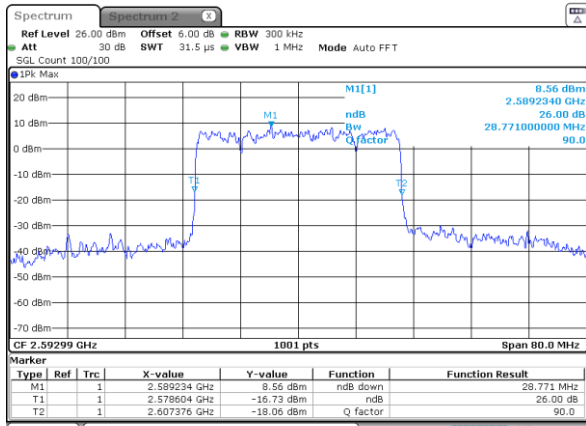


Date: 23, DEC, 2022 05:14:56



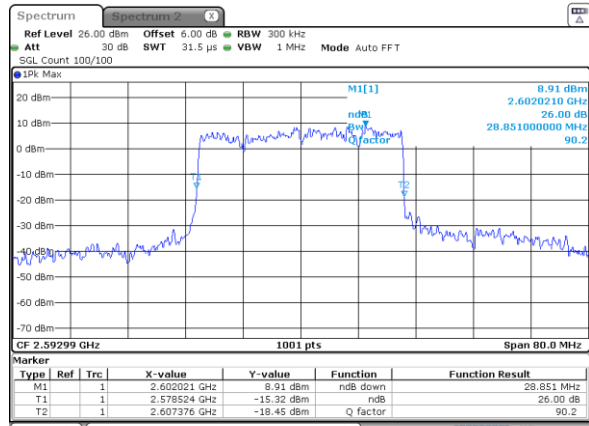
30MHz CP

QPSK



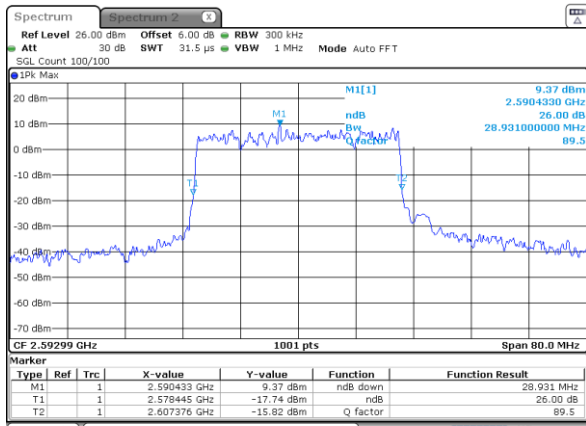
Date: 23, DEC, 2022 05:13:11

16QAM



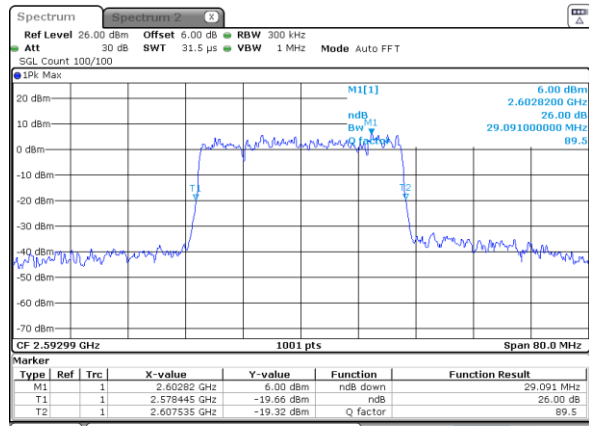
Date: 23, DEC, 2022 05:13:28

64QAM



Date: 23, DEC, 2022 05:13:47

256QAM



Date: 23, DEC, 2022 05:14:06