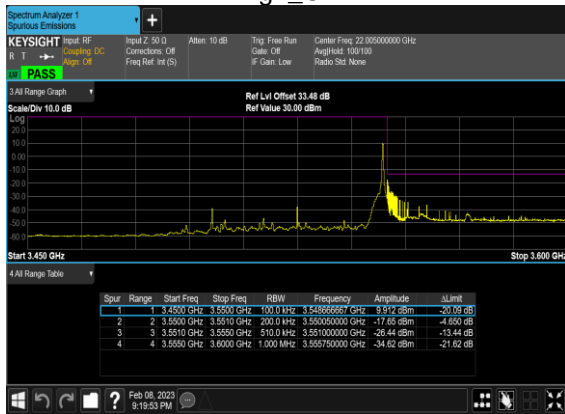




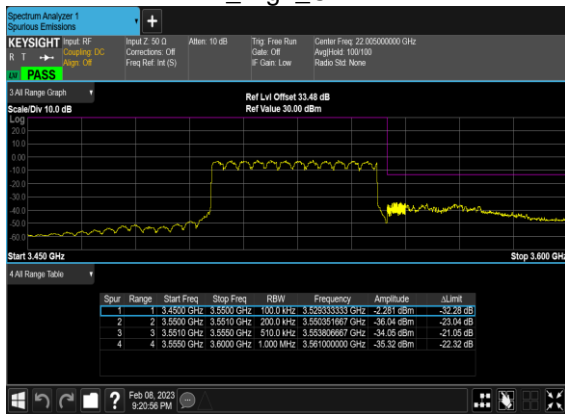
N78(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



N78(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



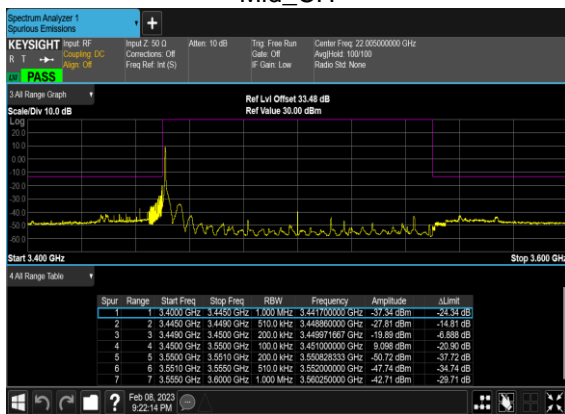
N78(50M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH



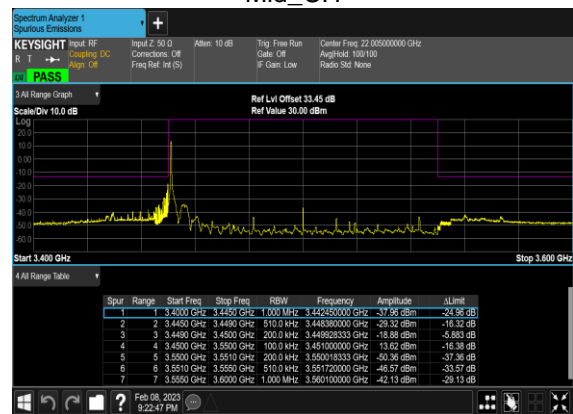
N78(50M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

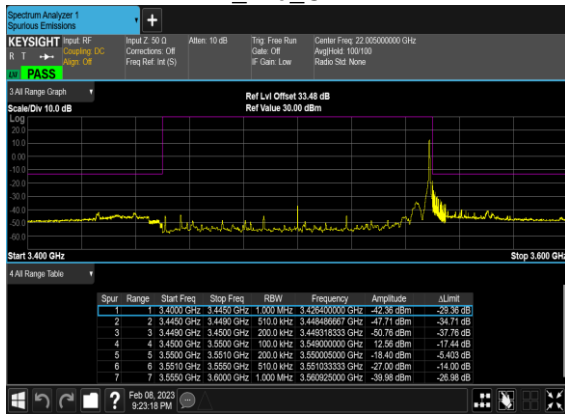


N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

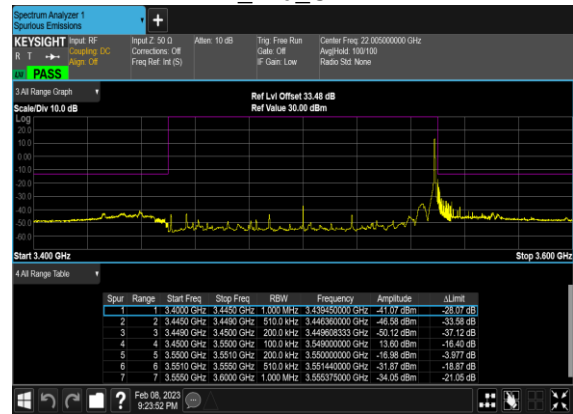




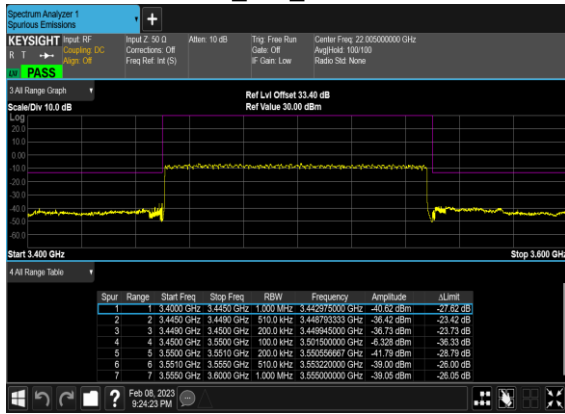
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_Mid_CH



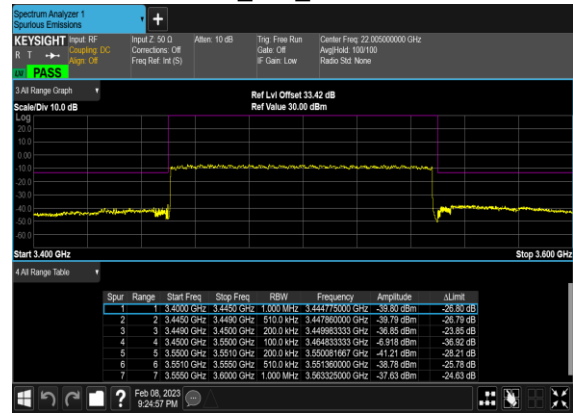
N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_Mid_CH



N78(100M)_DFT-s-OFDM_BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Frequency Stability

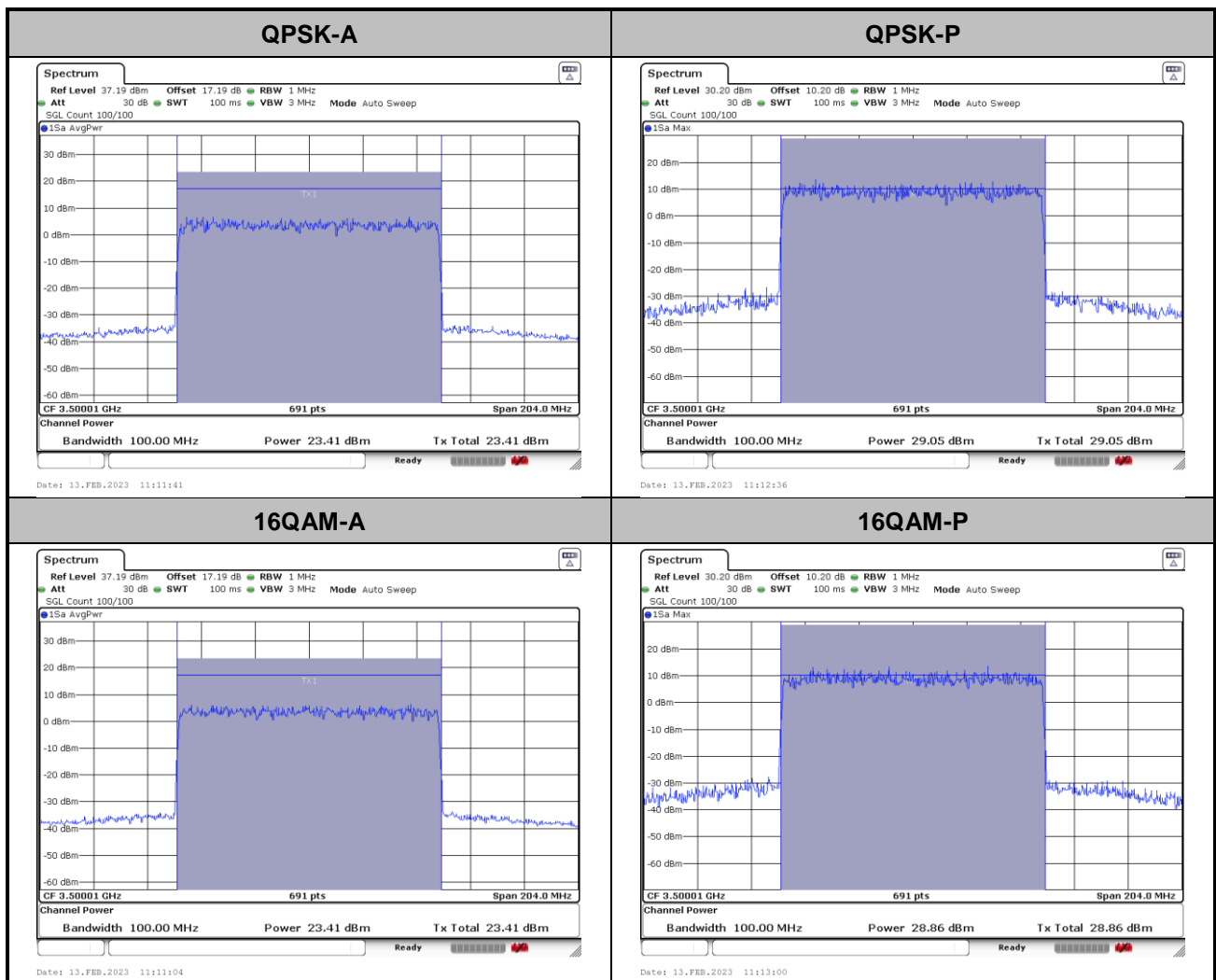
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0029	PASS	NV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0061	PASS	LV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0031	PASS	HV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0026	PASS	-30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0058	PASS	-20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0026	PASS	-10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0043	PASS	0°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0045	PASS	10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0029	PASS	20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0030	PASS	30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0024	PASS	40°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	0.0063	PASS	50°C



FR1 n78 UL MIMO

Peak-to-Average Ratio

Mode	FR1 n78 / 20MHz / DFT-S OFDM			
Mod.	100M			Limit: 13dB
RB Size	BPSK	QPSK		Result
Middle CH	5.64	5.45		PASS

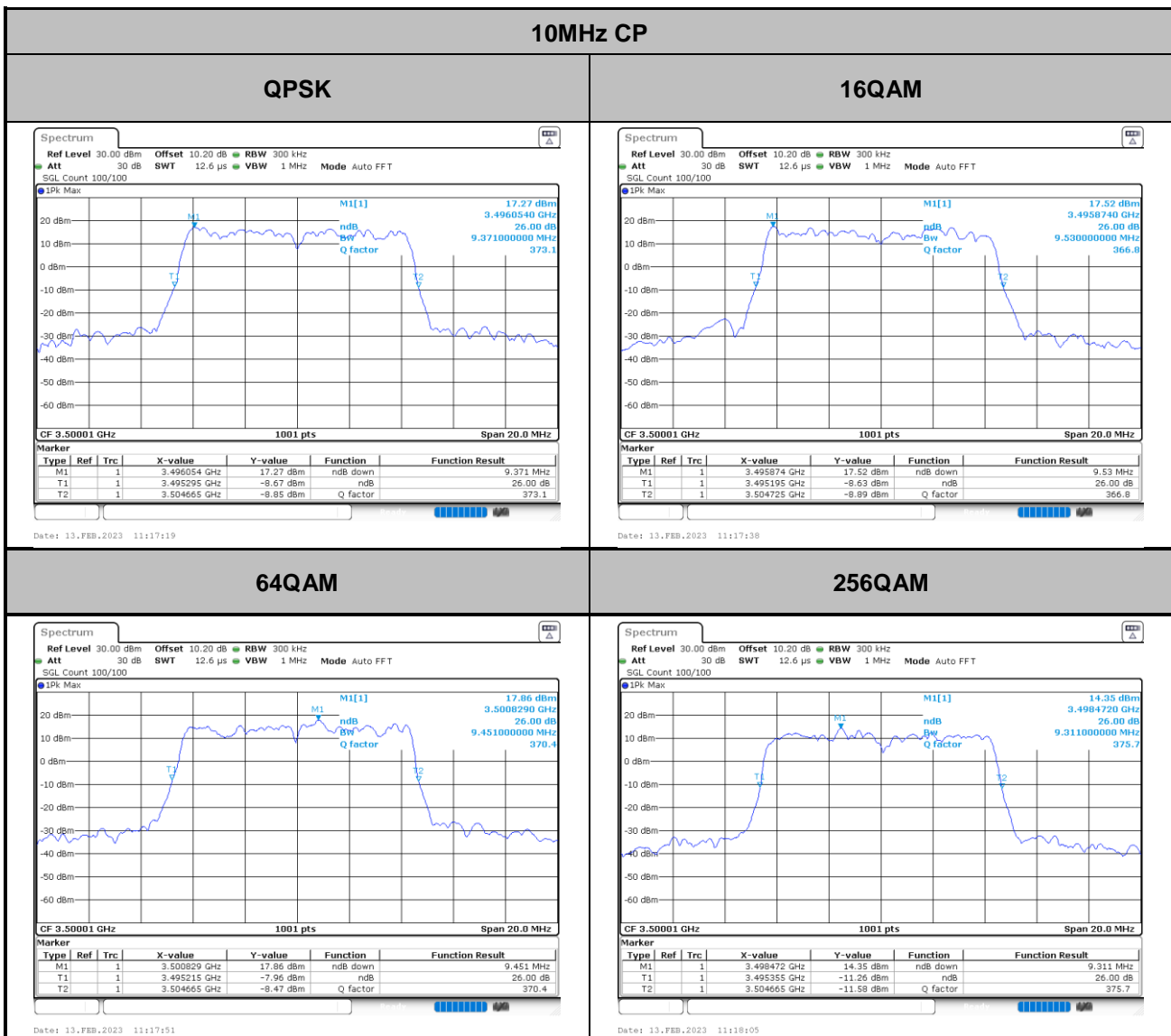


26dB Bandwidth

Mode	FR1 n78 : 26dB BW(10 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	9.37	9.53	9.45	9.31
Mode	FR1 n78 : 26dB BW(15 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	14.36	14.39	14.57	14.63
Mode	FR1 n78 : 26dB BW(20 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	19.06	19.06	19.26	19.34
Mode	FR1 n78 : 26dB BW(25 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	24.54	24.30	24.02	24.02
Mode	FR1 n78 : 26dB BW(30 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	29.29	28.97	28.73	29.01
Mode	FR1 n78 : 26dB BW(40 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	39.16	39.00	39.32	39.08
Mode	FR1 n78 : 26dB BW(50 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	49.65	49.65	49.75	49.75
Mode	FR1 n78 : 26dB BW(60 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	60.54	60.42	60.42	60.3
Mode	FR1 n78 : 26dB BW(80 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	82.32	82.16	82.16	82.16



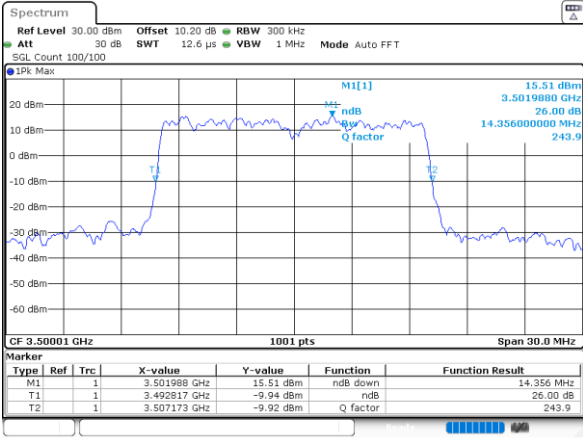
Mode	FR1 n78 : 26dB BW(90 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	92.07	92.25	92.43	92.25
Mode	FR1 n78 : 26dB BW(100 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	102.3	102.3	102.3	102.5





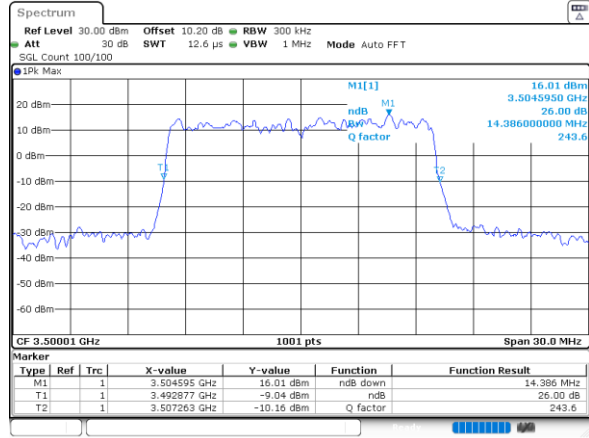
15MHz CP

QPSK



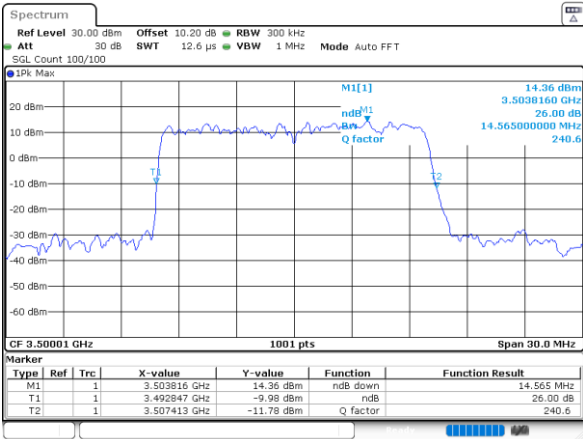
Date: 13.FEB.2023 11:19:40

16QAM



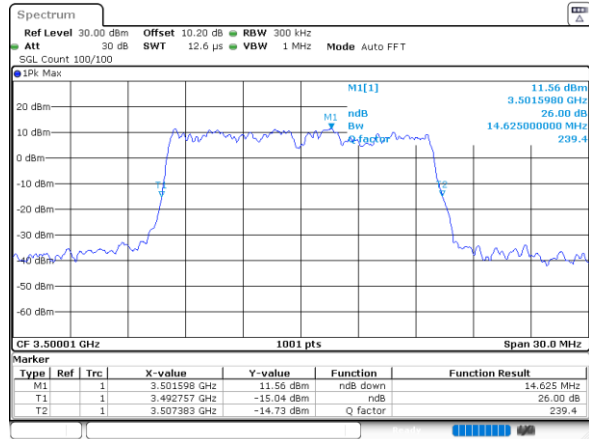
Date: 13.FEB.2023 11:19:28

64QAM



Date: 13.FEB.2023 11:19:16

256QAM

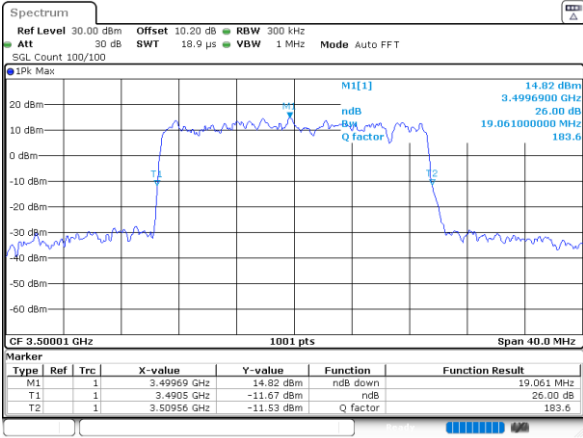


Date: 13.FEB.2023 11:19:03



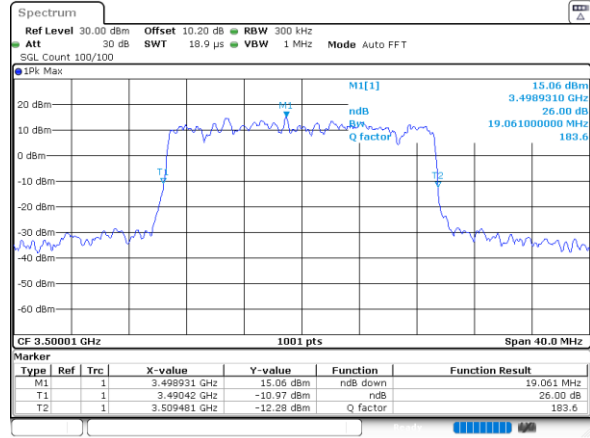
20MHz CP

QPSK



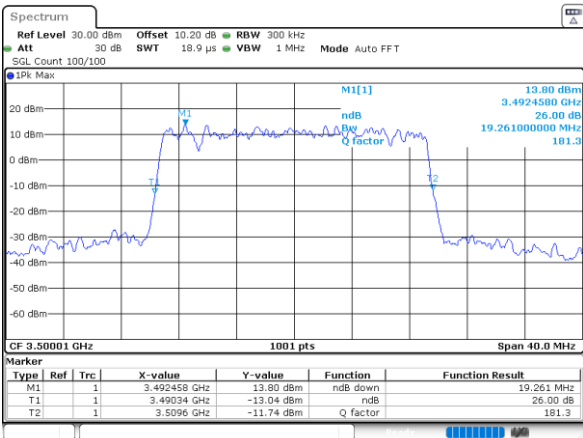
Date: 13.FEB.2023 11:20:10

16QAM



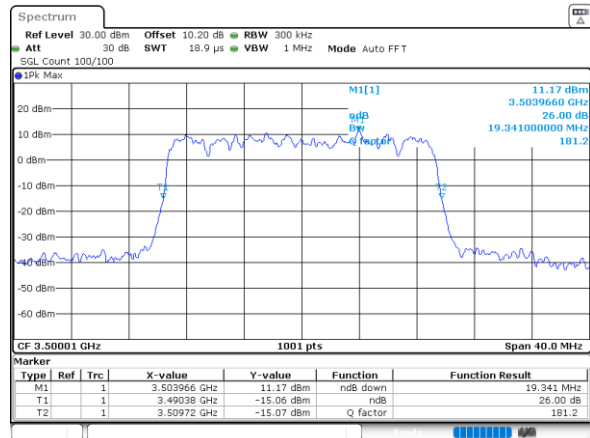
Date: 13.FEB.2023 11:20:26

64QAM



Date: 13.FEB.2023 11:20:39

256QAM

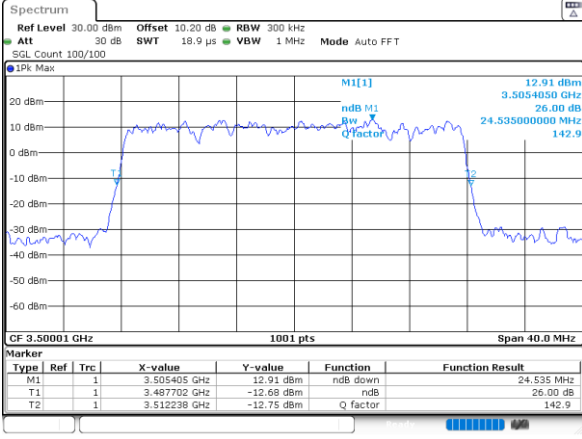


Date: 13.FEB.2023 11:20:54



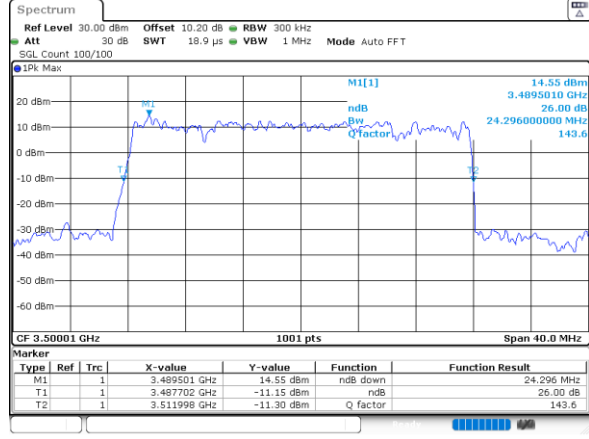
25MHz CP

QPSK



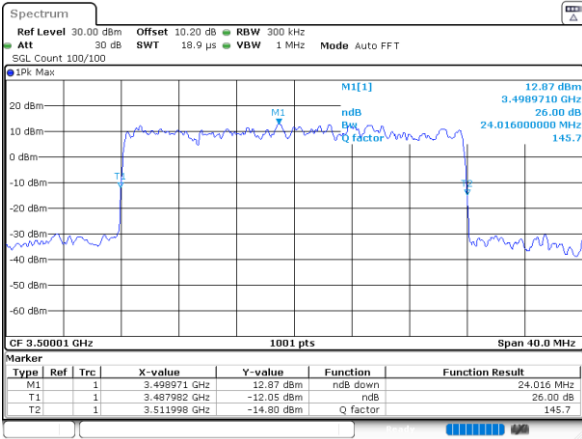
Date: 13.FEB.2023 11:26:49

16QAM



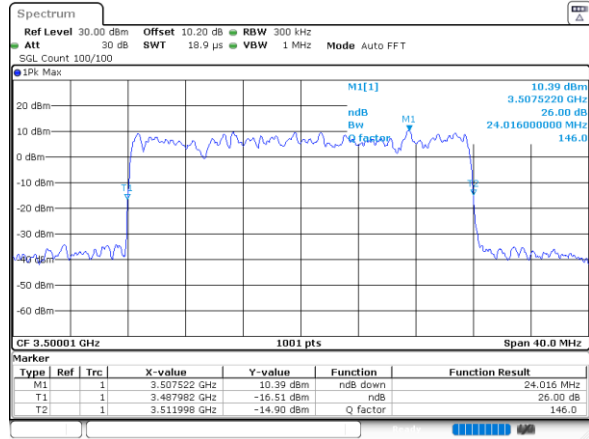
Date: 13.FEB.2023 11:26:32

64QAM



Date: 13.FEB.2023 11:26:16

256QAM

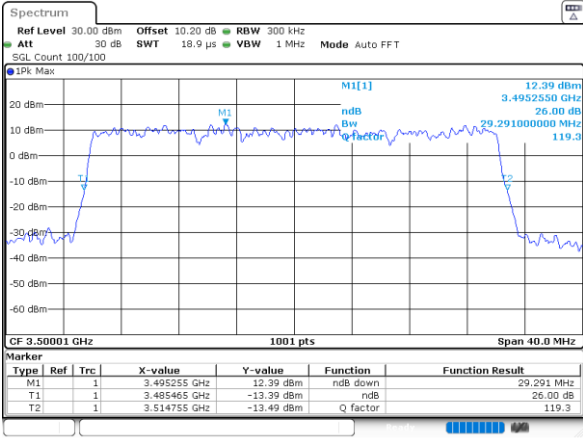


Date: 13.FEB.2023 11:26:01



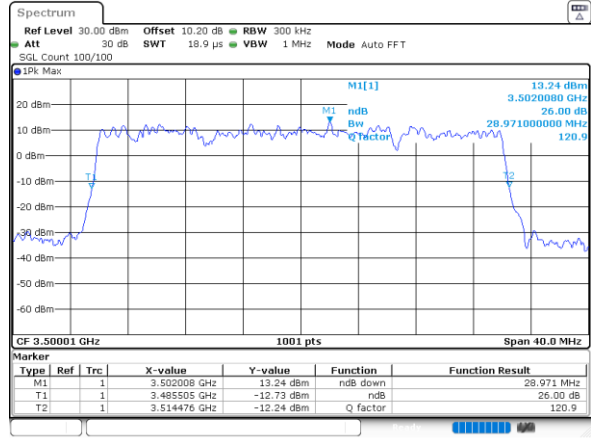
30MHz CP

QPSK



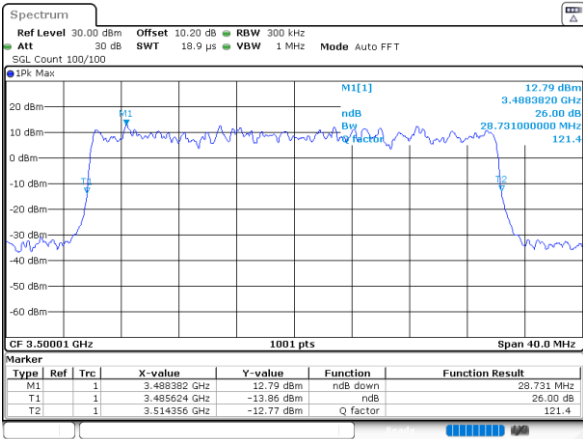
Date: 13.FEB.2023 11:27:53

16QAM



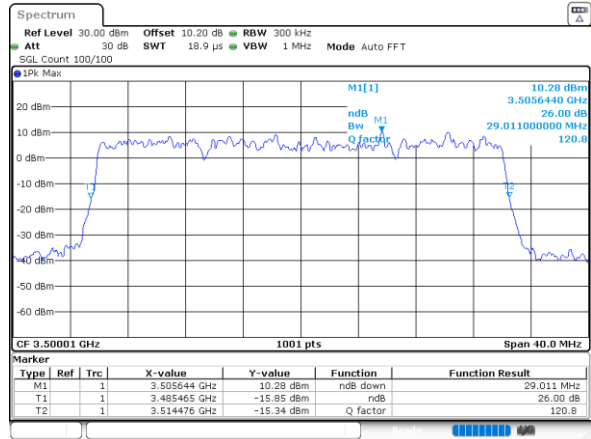
Date: 13.FEB.2023 11:28:10

64QAM



Date: 13.FEB.2023 11:28:25

256QAM

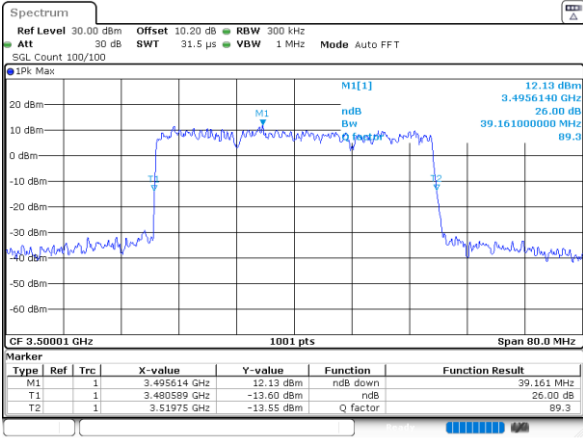


Date: 13.FEB.2023 11:28:40



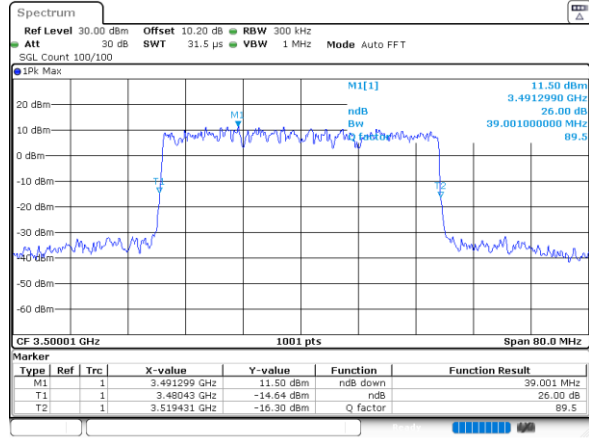
40MHz CP

QPSK



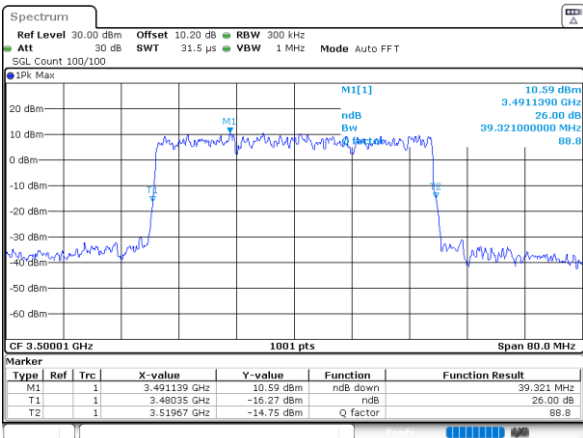
Date: 13.FEB.2023 11:29:47

16QAM



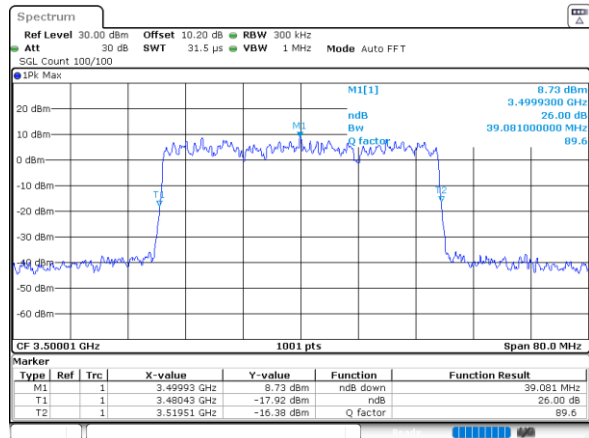
Date: 13.FEB.2023 11:29:31

64QAM



Date: 13.FEB.2023 11:29:17

256QAM

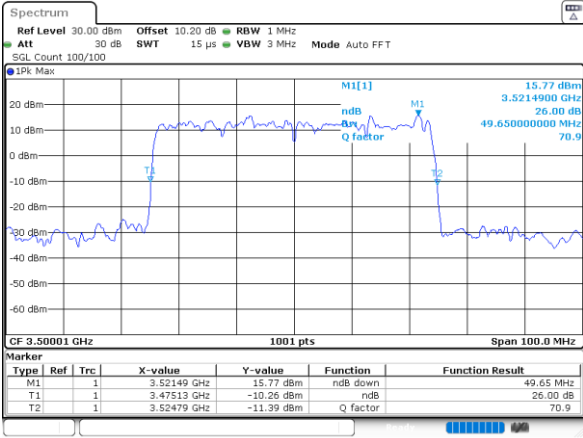


Date: 13.FEB.2023 11:29:03



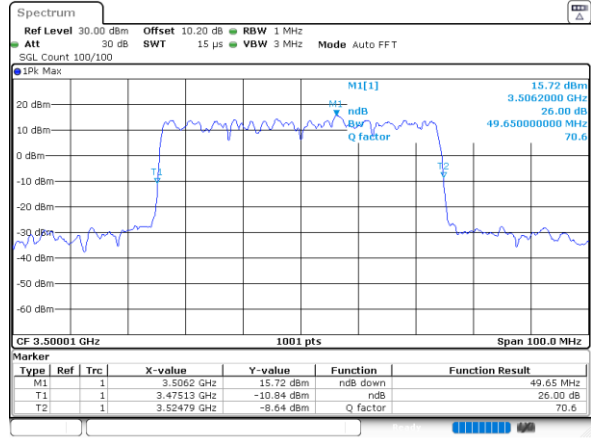
50MHz CP

QPSK



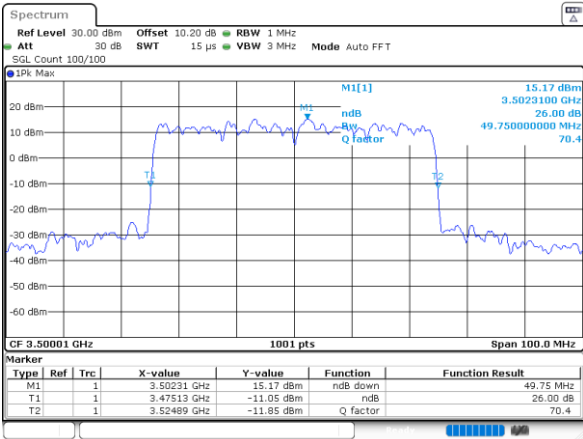
Date: 13.FEB.2023 11:30:12

16QAM



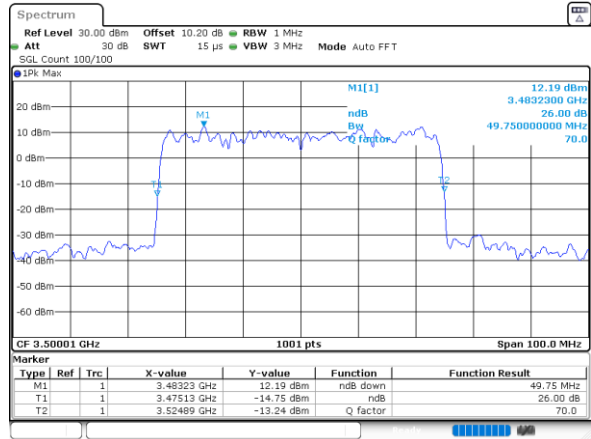
Date: 13.FEB.2023 11:30:26

64QAM



Date: 13.FEB.2023 11:30:42

256QAM

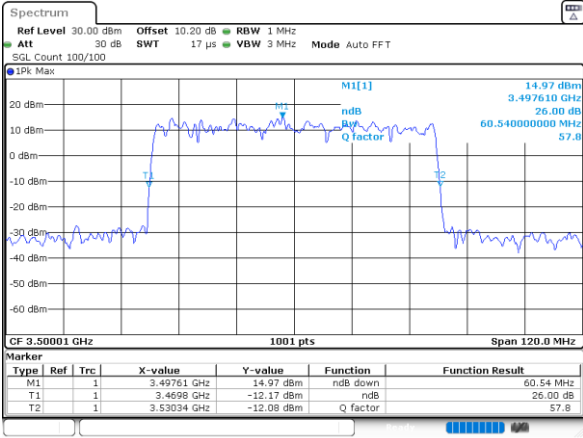


Date: 13.FEB.2023 11:31:03



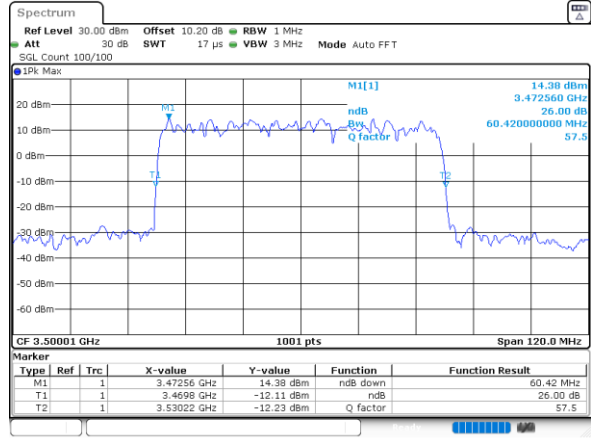
60MHz CP

QPSK



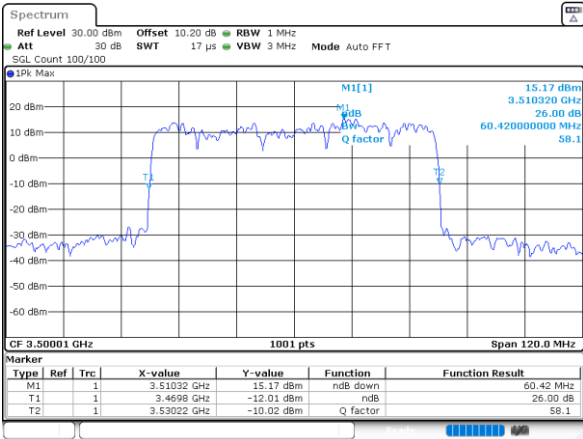
Date: 13.FEB.2023 11:32:10

16QAM



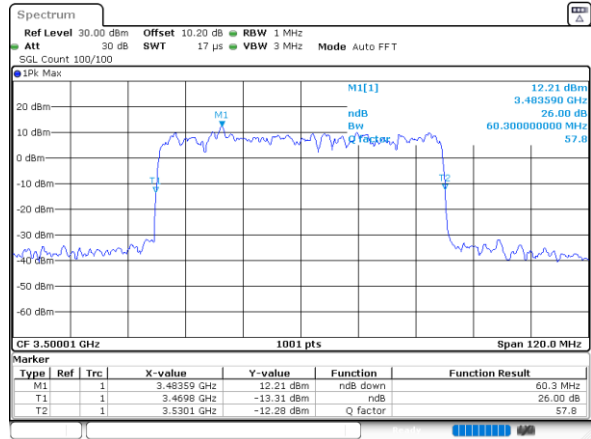
Date: 13.FEB.2023 11:31:55

64QAM



Date: 13.FEB.2023 11:31:39

256QAM

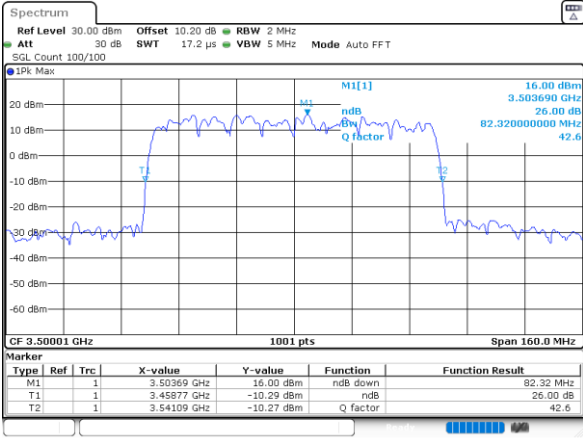


Date: 13.FEB.2023 11:31:23



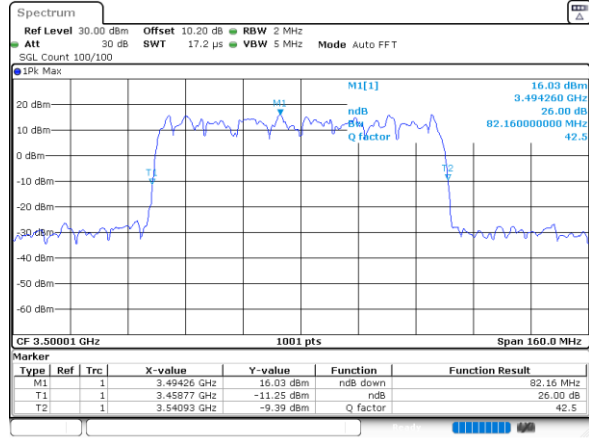
80MHz CP

QPSK



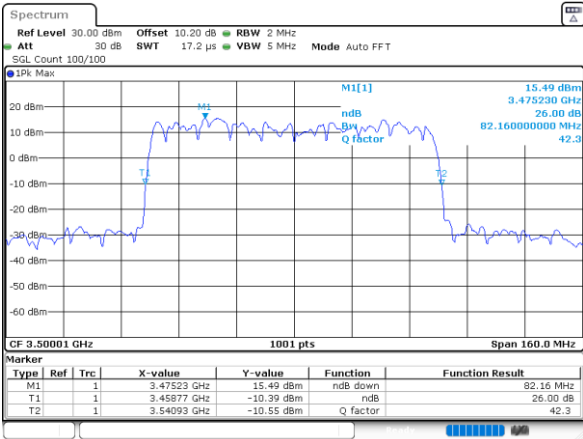
Date: 13.FEB.2023 11:33:10

16QAM



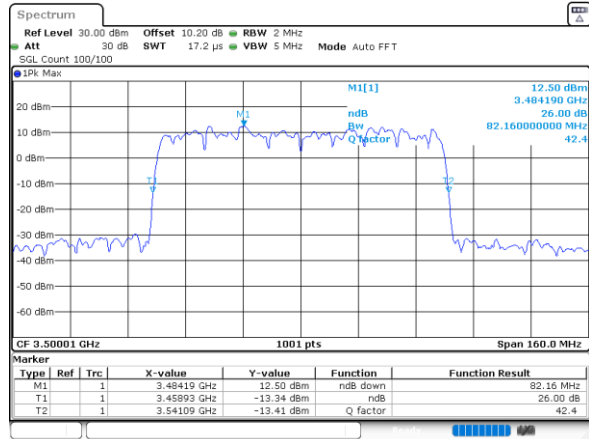
Date: 13.FEB.2023 11:33:32

64QAM



Date: 13.FEB.2023 11:33:49

256QAM

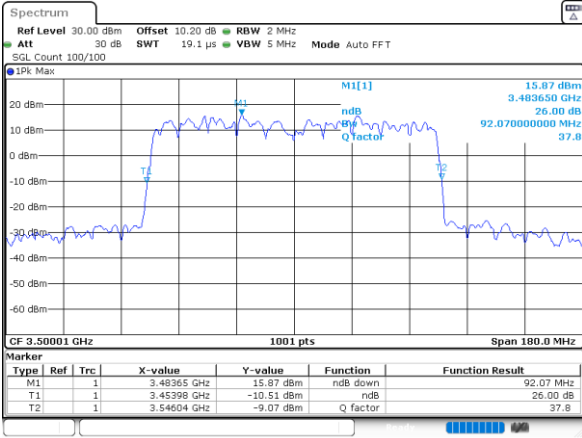


Date: 13.FEB.2023 11:34:05



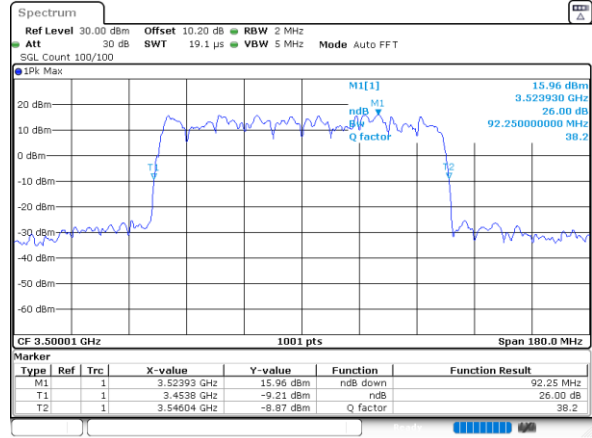
90MHz CP

QPSK



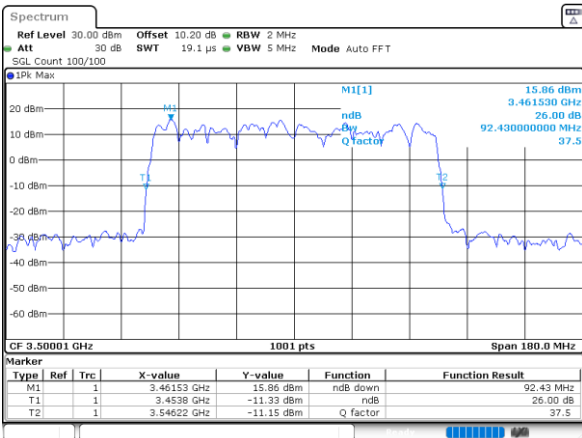
Date: 13.FEB.2023 11:35:34

16QAM



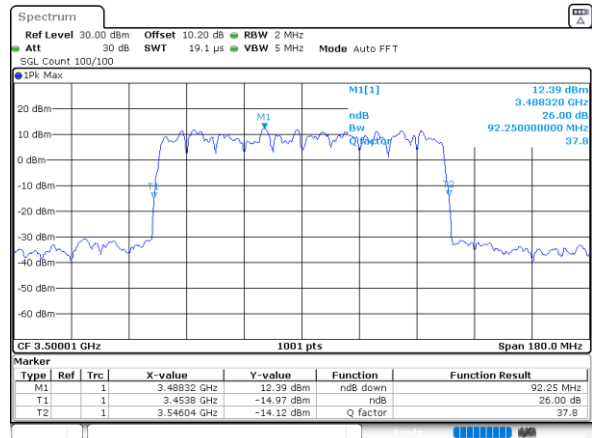
Date: 13.FEB.2023 11:35:17

64QAM



Date: 13.FEB.2023 11:35:00

256QAM

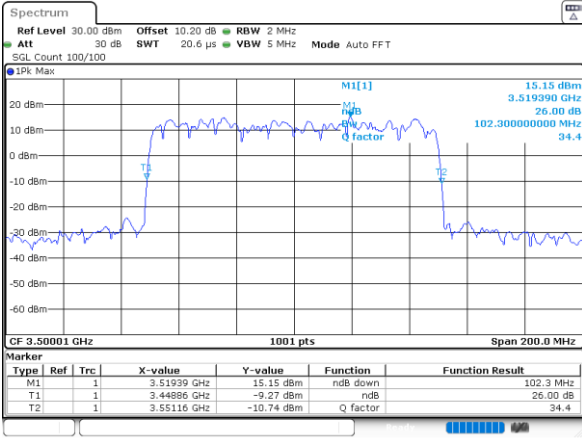


Date: 13.FEB.2023 11:34:41



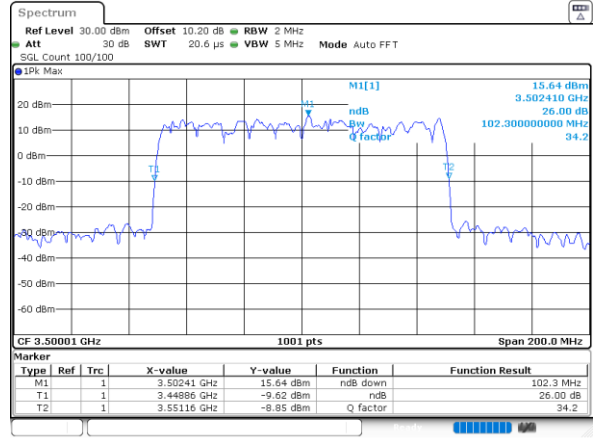
100MHz CP

QPSK



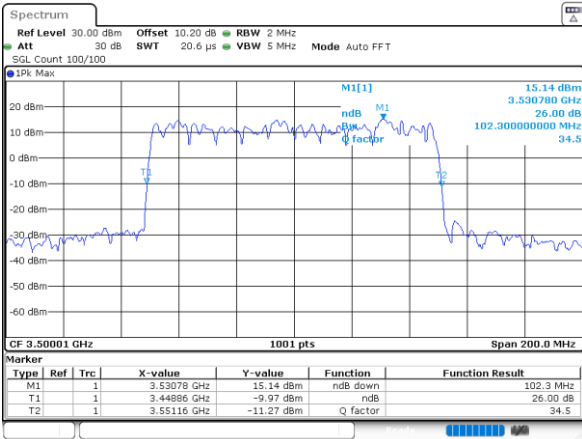
Date: 13.FEB.2023 11:37:33

16QAM



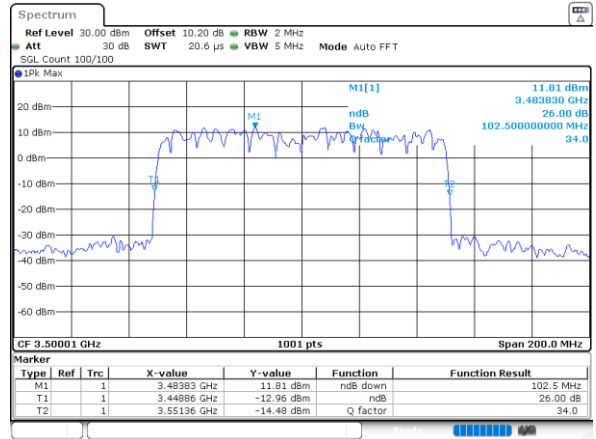
Date: 13.FEB.2023 11:37:51

64QAM



Date: 13.FEB.2023 11:38:07

256QAM



Date: 13.FEB.2023 11:38:23

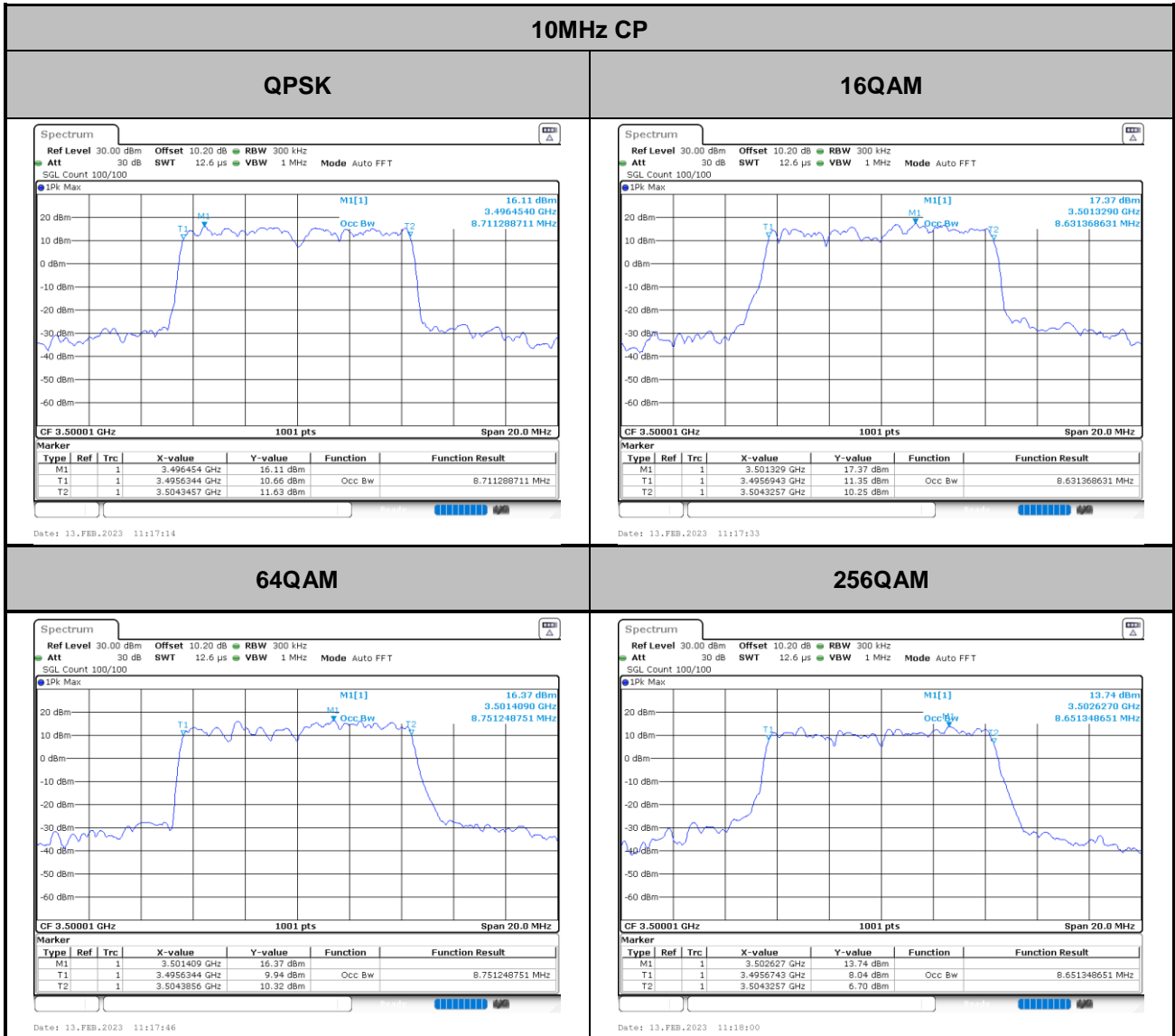


Occupied Bandwidth

Mode	FR1 n78 : OB BW(10 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	8.71	8.63	8.75	8.65
Mode	FR1 n78 : OB BW(15 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	13.61	13.61	13.64	13.64
Mode	FR1 n78 : OB BW(20 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	18.26	18.30	18.22	18.30
Mode	FR1 n78 : OB BW(25 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	23.18	23.18	23.06	23.14
Mode	FR1 n78 : OB BW(30 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	27.77	27.81	27.69	27.97
Mode	FR1 n78 : OB BW(40 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	37.80	37.72	37.64	37.88
Mode	FR1 n78 : OB BW(50 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	47.75	47.35	47.75	47.55
Mode	FR1 n78 : OB BW(60 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	58.02	57.54	58.38	57.78
Mode	FR1 n78 : OB BW(80 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	77.36	78.48	78.16	78.00



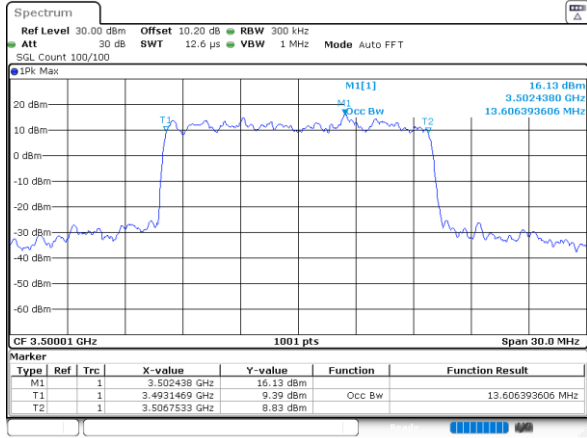
Mode	FR1 n78 : OB BW(90 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	87.57	87.57	87.03	87.39
Mode	FR1 n78 : OB BW(100 MHz) / CP OFDM				
BW	CP				
Mod.	-	QPSK	16QAM	64QAM	256QAM
Middle CH	-	97.70	98.10	97.30	97.50





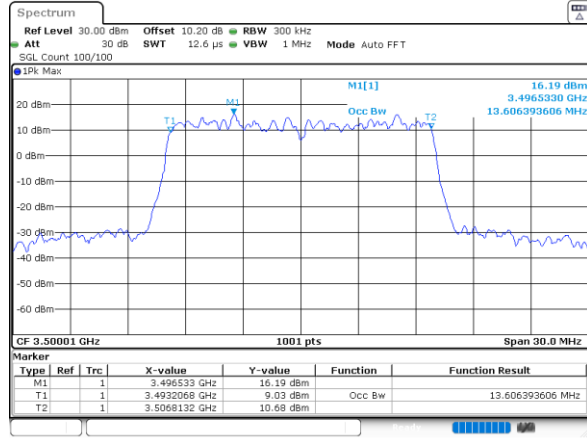
15MHz CP

QPSK



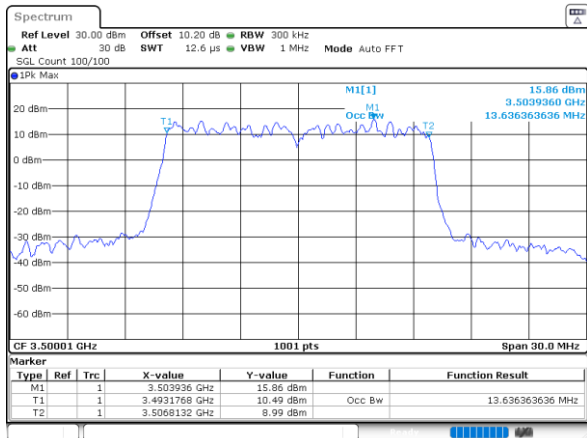
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16QAM



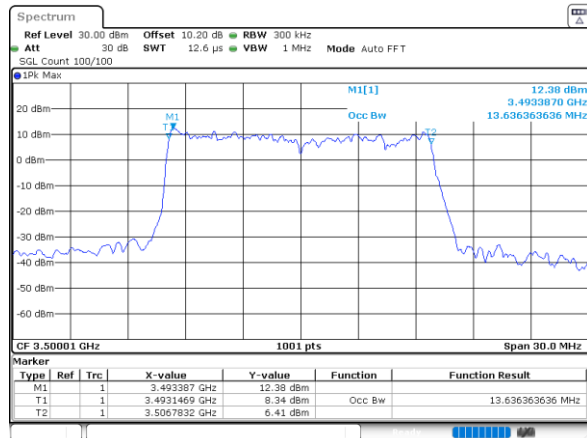
Date: 13.FEB.2023 11:19:23

64QAM



Date: 13.FEB.2023 11:19:11

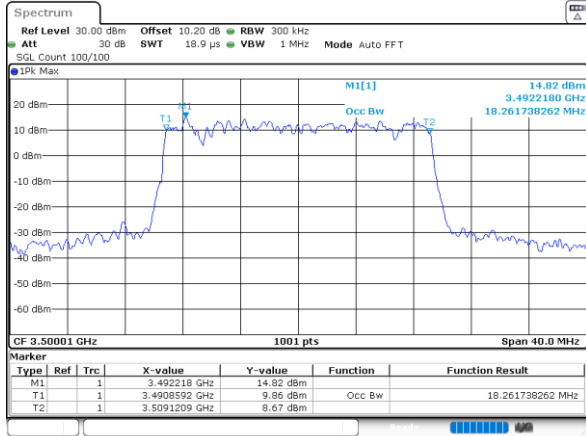
256QAM



Date: 13.FEB.2023 11:18:58

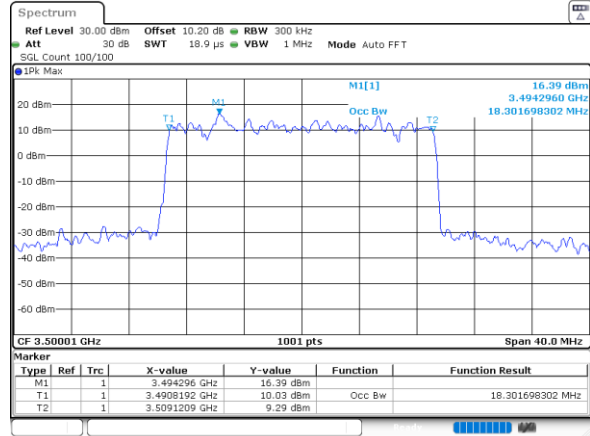
20MHz CP

QPSK



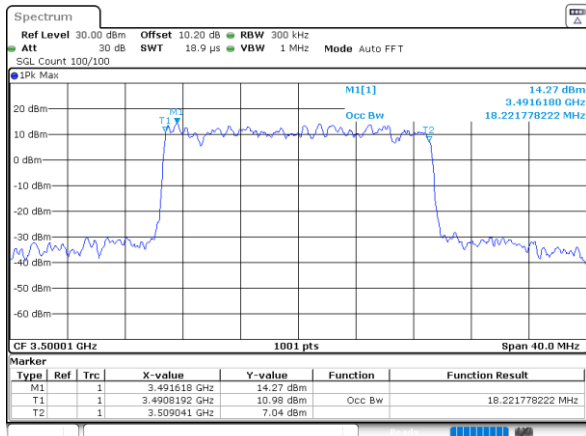
Date: 13.FEB.2023 11:20:06

16QAM



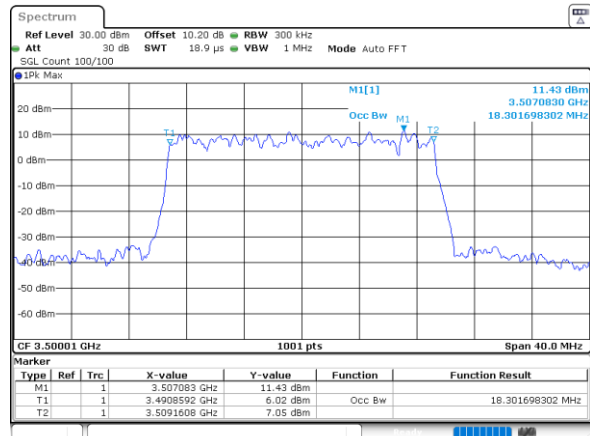
Date: 13.FEB.2023 11:20:120

64QAM



Date: 13.FEB.2023 11:20:34

256QAM

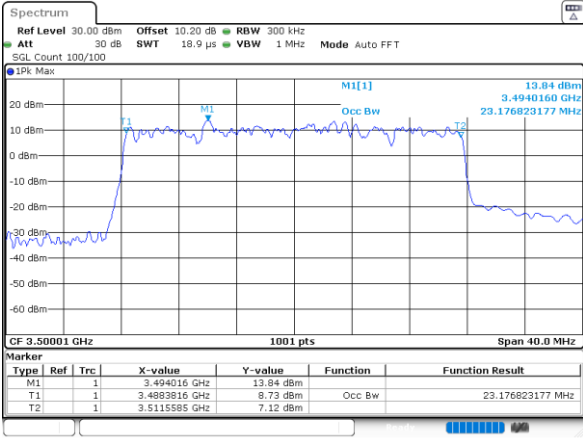


Date: 13.FEB.2023 11:20:48



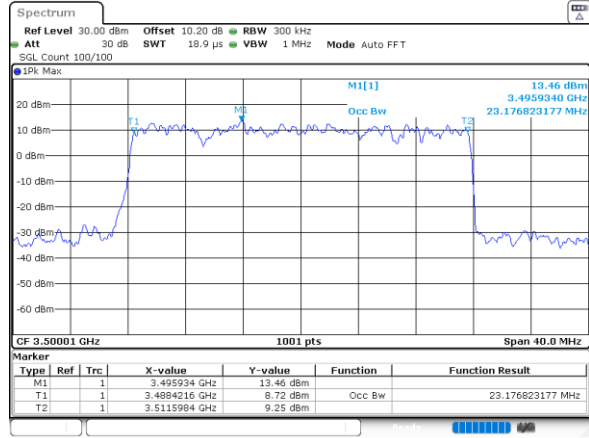
25MHz CP

QPSK



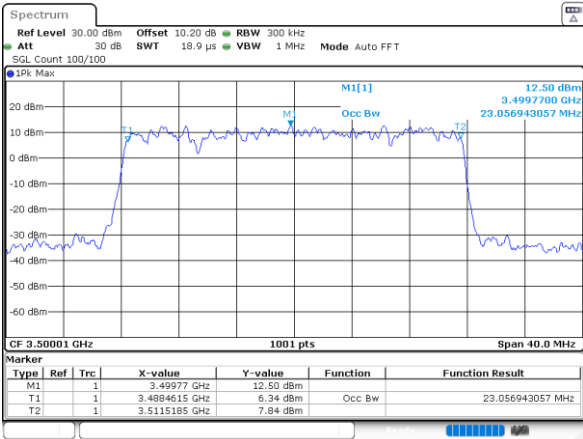
Date: 13.FEB.2023 11:26:42

16QAM



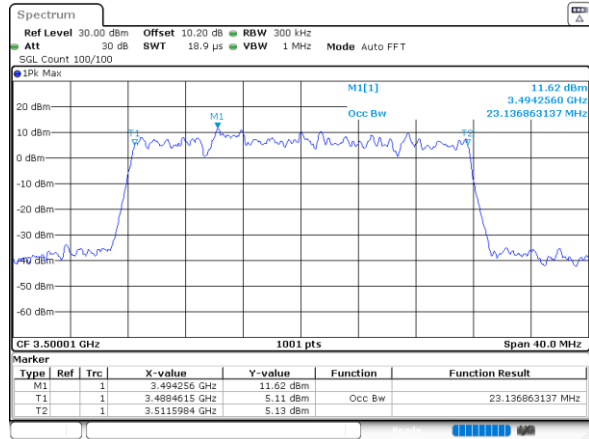
Date: 13.FEB.2023 11:26:26

64QAM



Date: 13.FEB.2023 11:26:11

256QAM

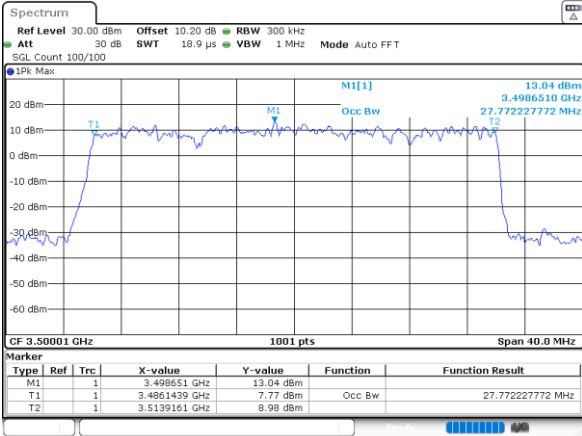


Date: 13.FEB.2023 11:25:55



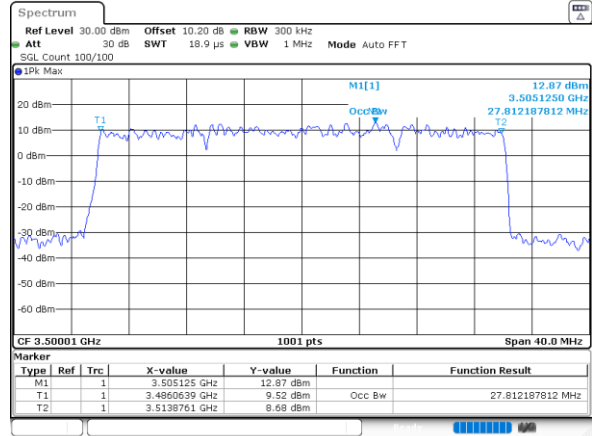
30MHz CP

QPSK



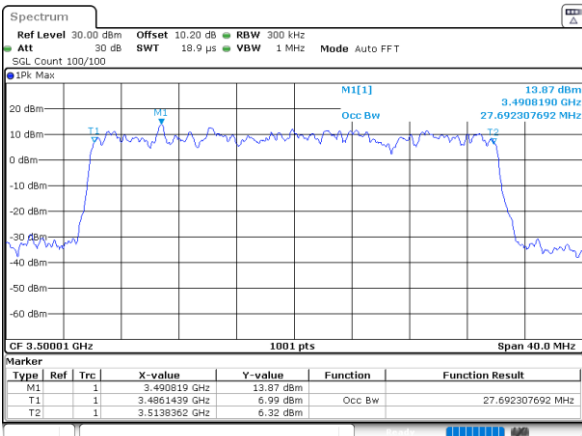
Date: 13.FEB.2023 11:27:45

16QAM



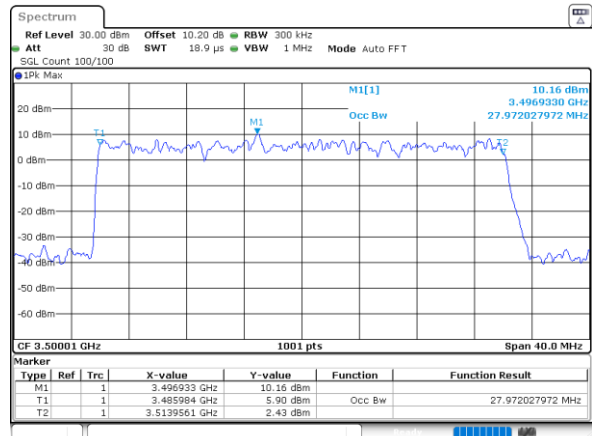
Date: 13.FEB.2023 11:28:04

64QAM



Date: 13.FEB.2023 11:28:19

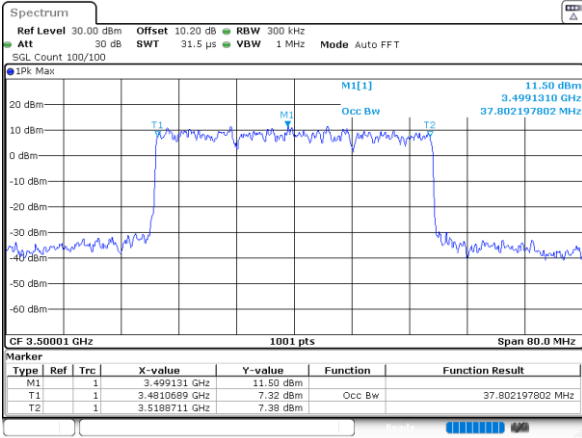
256QAM



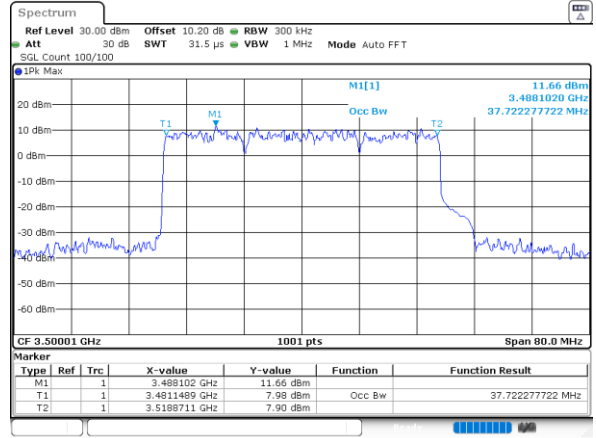
Date: 13.FEB.2023 11:28:34

40MHz CP

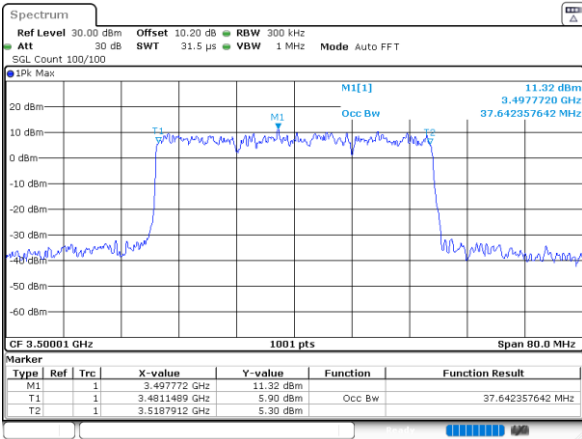
QPSK



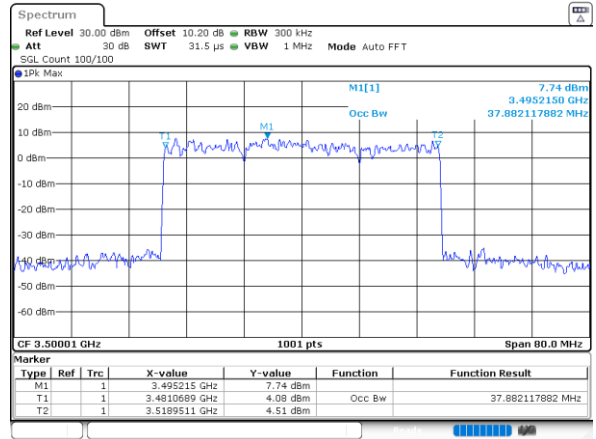
16QAM



64QAM



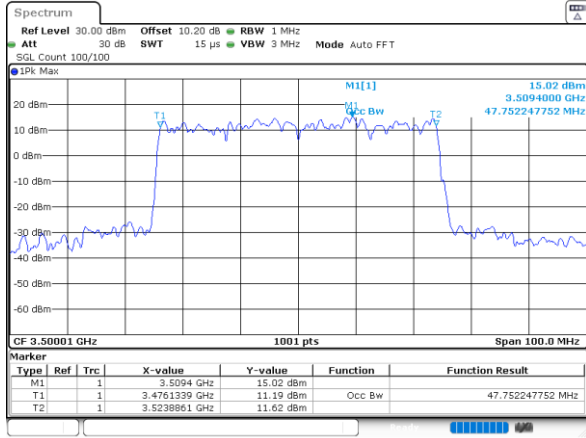
256QAM





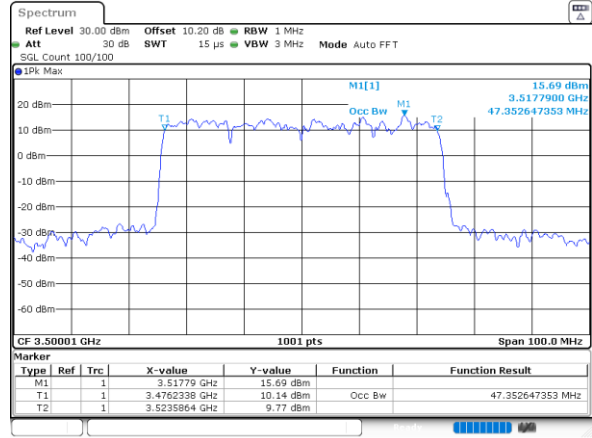
50MHz CP

QPSK



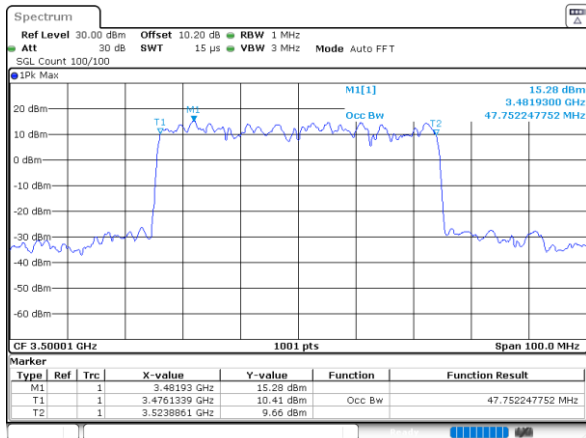
Date: 13.FEB.2023 11:30:06

16QAM



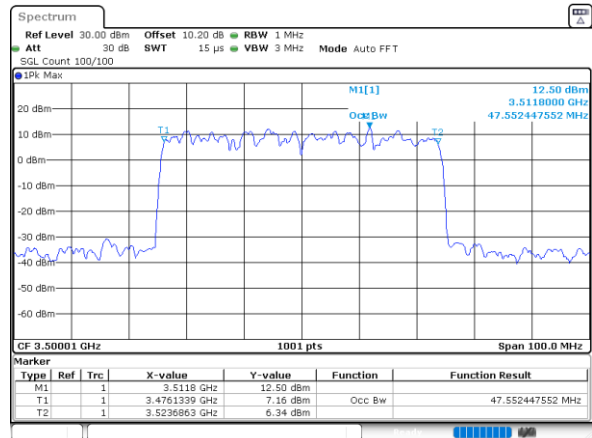
Date: 13.FEB.2023 11:30:21

64QAM



Date: 13.FEB.2023 11:30:36

256QAM

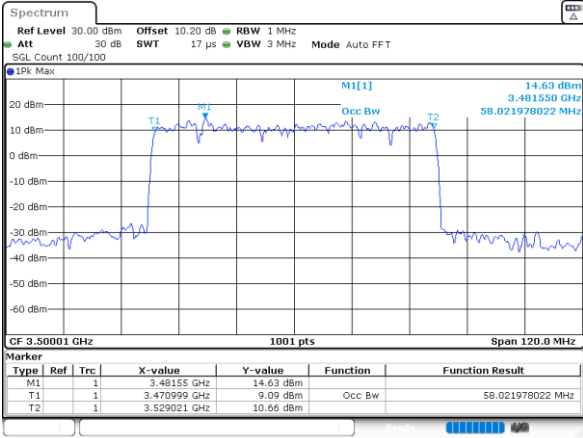


Date: 13.FEB.2023 11:30:56



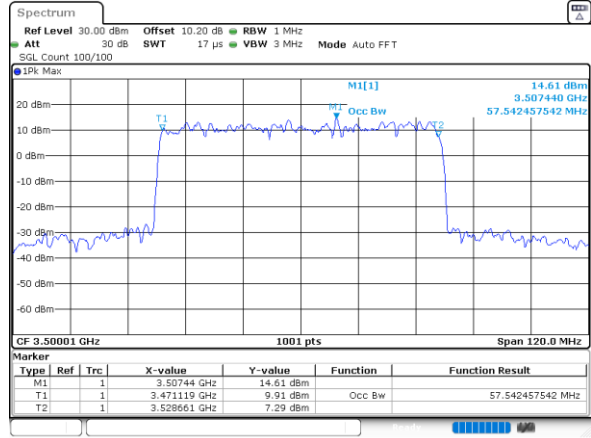
60MHz CP

QPSK



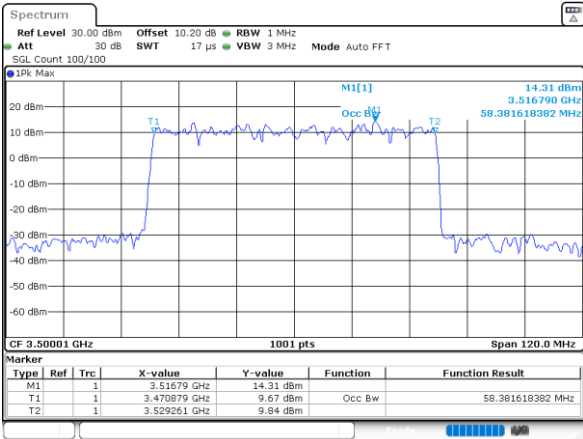
Date: 13.FEB.2023 11:32:05

16QAM



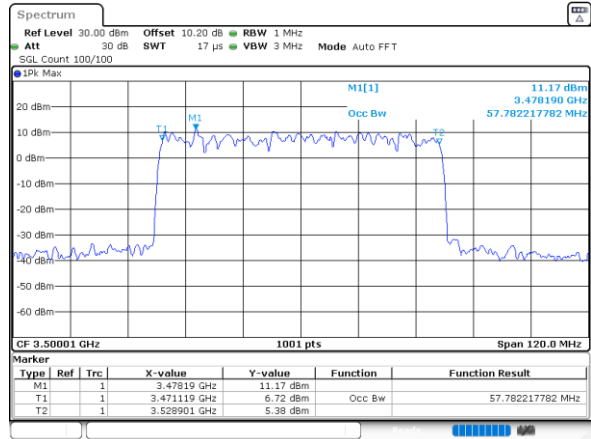
Date: 13.FEB.2023 11:31:49

64QAM



Date: 13.FEB.2023 11:31:33

256QAM

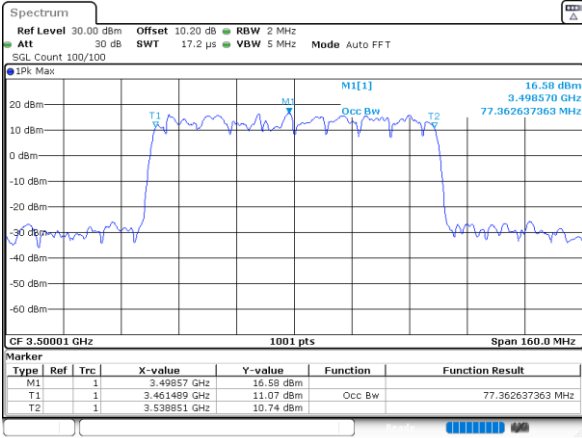


Date: 13.FEB.2023 11:31:17



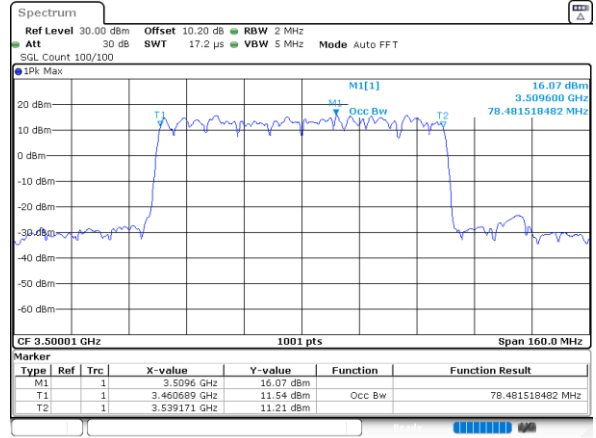
80MHz CP

QPSK



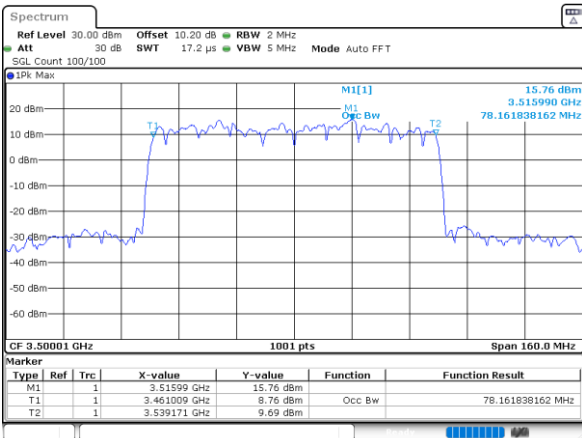
Date: 13.FEB.2023 11:33:03

16QAM



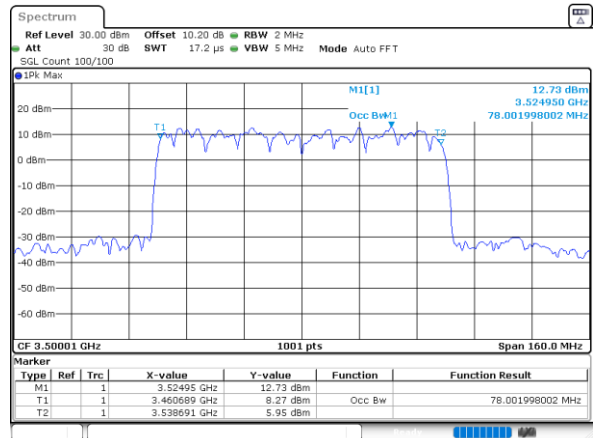
Date: 13.FEB.2023 11:33:24

64QAM



Date: 13.FEB.2023 11:33:43

256QAM

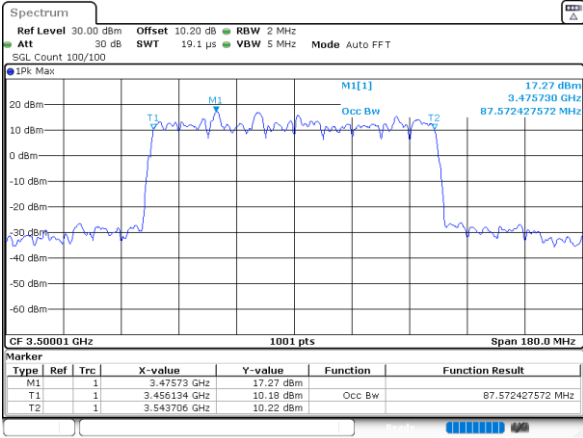


Date: 13.FEB.2023 11:33:59



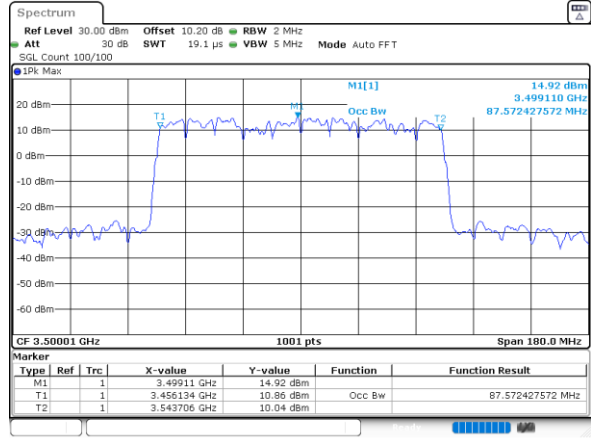
90MHz CP

QPSK



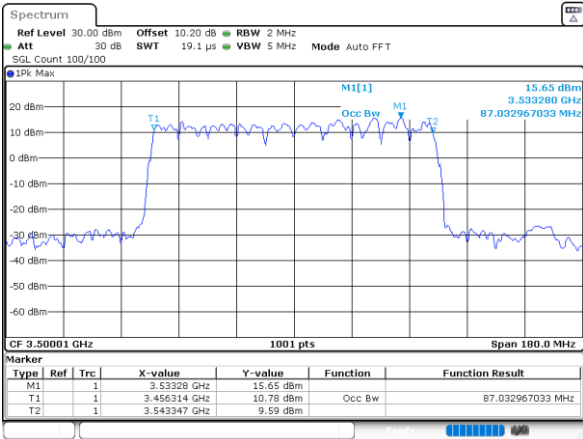
Date: 13.FEB.2023 11:35:27

16QAM



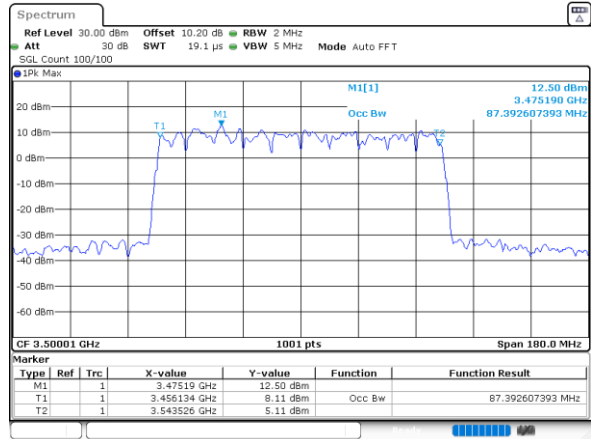
Date: 13.FEB.2023 11:35:10

64QAM



Date: 13.FEB.2023 11:34:53

256QAM

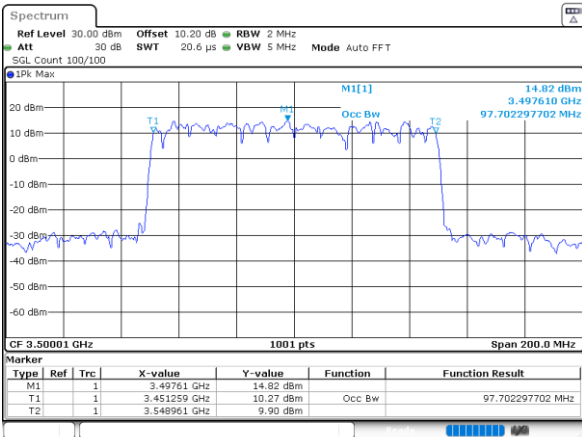


Date: 13.FEB.2023 11:34:34



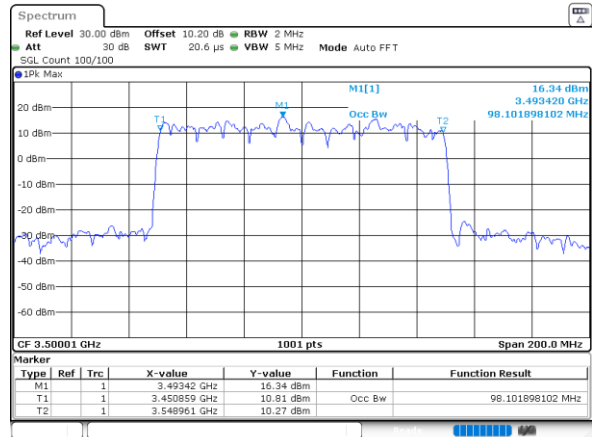
100MHz CP

QPSK



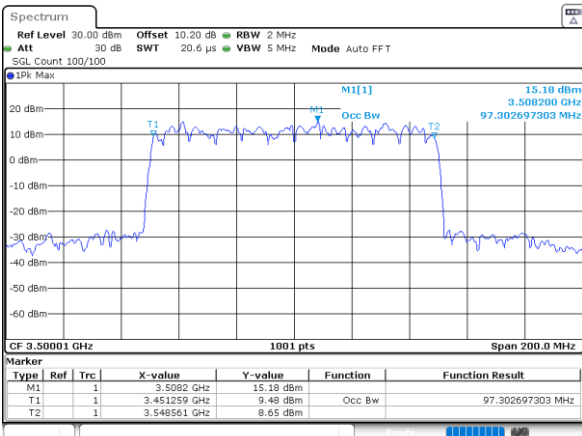
Date: 13.FEB.2023 11:37:27

16QAM



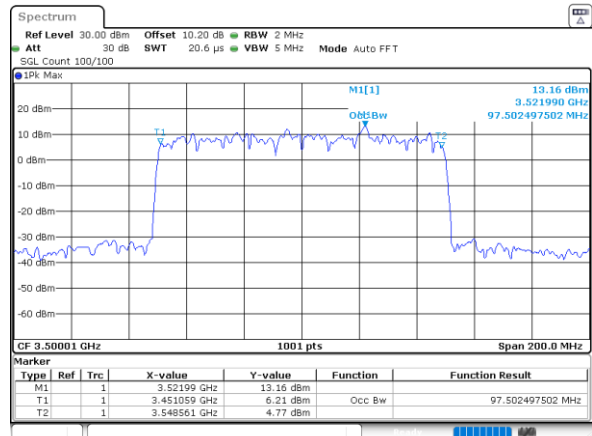
Date: 13.FEB.2023 11:37:44

64QAM



Date: 13.FEB.2023 11:38:00

256QAM



Date: 13.FEB.2023 11:38:16

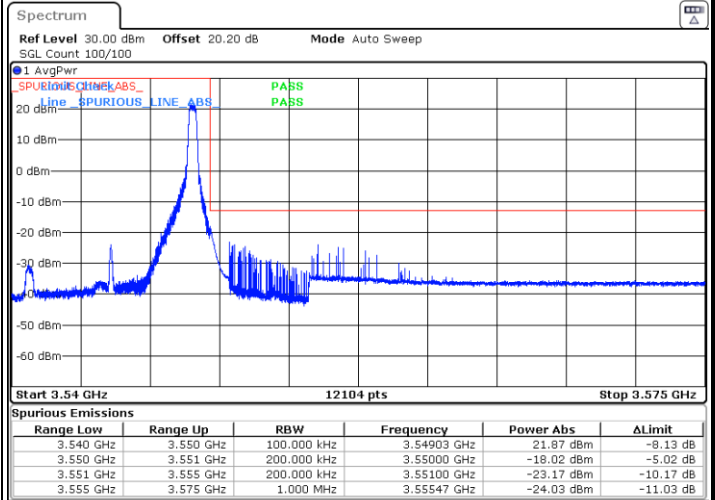
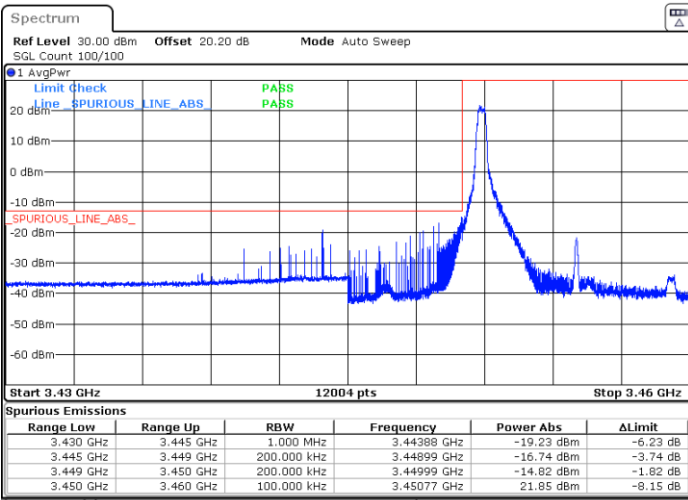


Conducted Band Edge

FR1 n78 / 10MHz / DFT-S OFDM / PI/2 QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

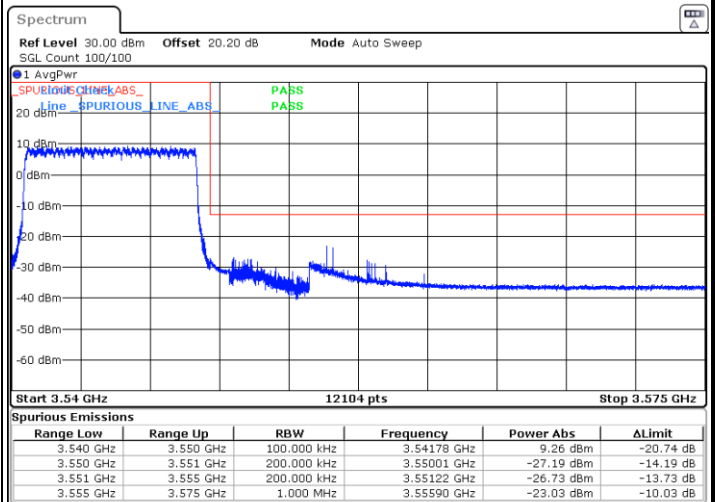
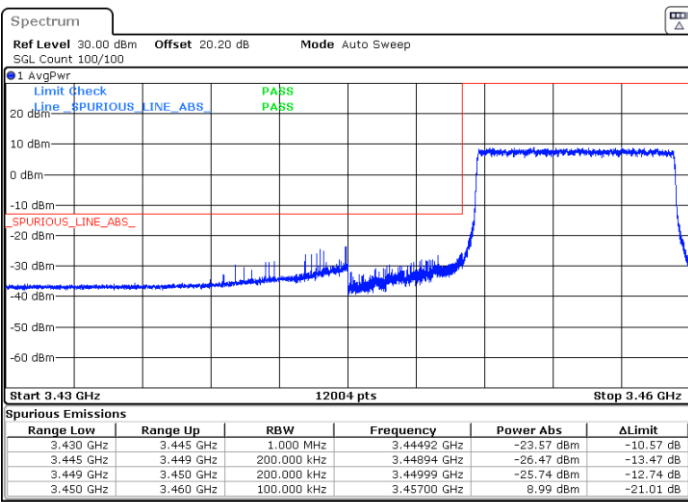


Date: 13.FEB.2023 10:11:52

Date: 13.FEB.2023 10:32:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.FEB.2023 10:13:33

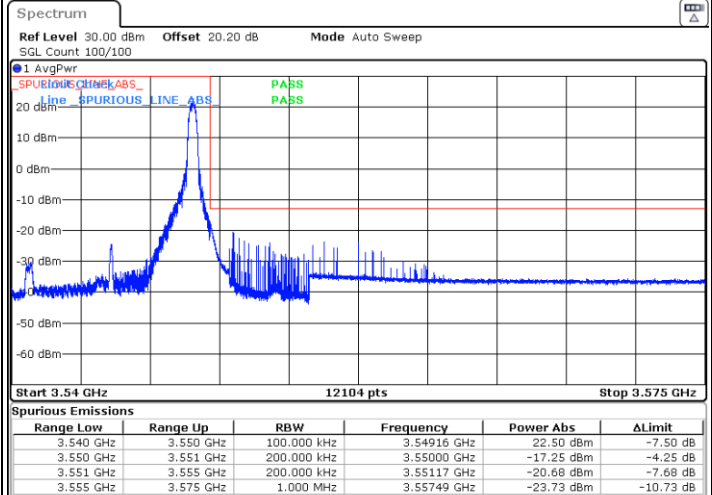
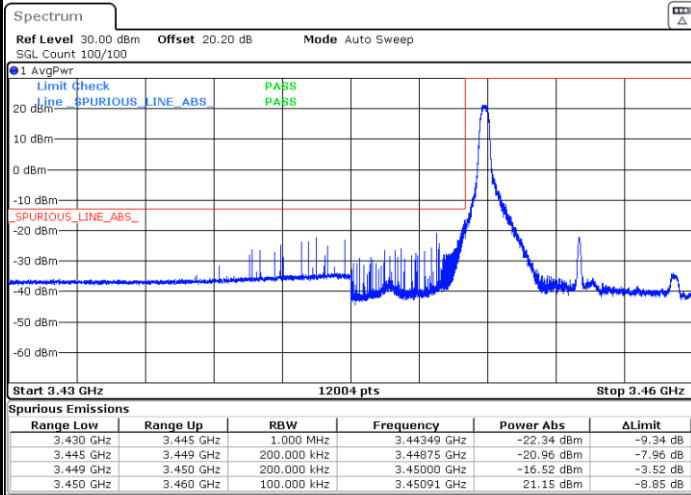
Date: 13.FEB.2023 10:29:32



FR1 n78 / 10MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

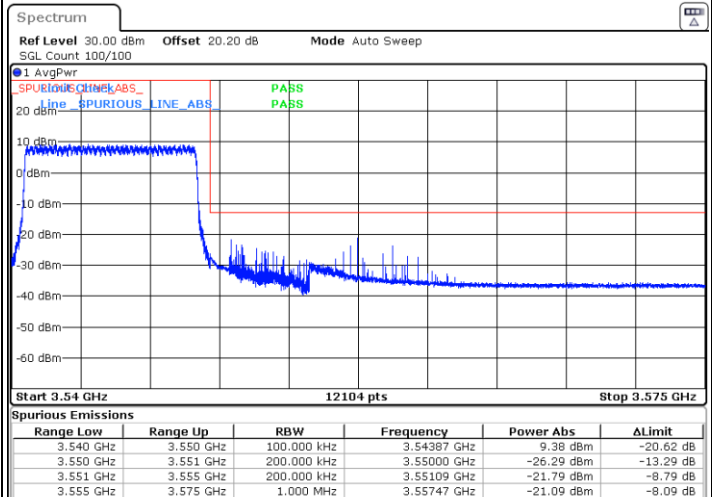
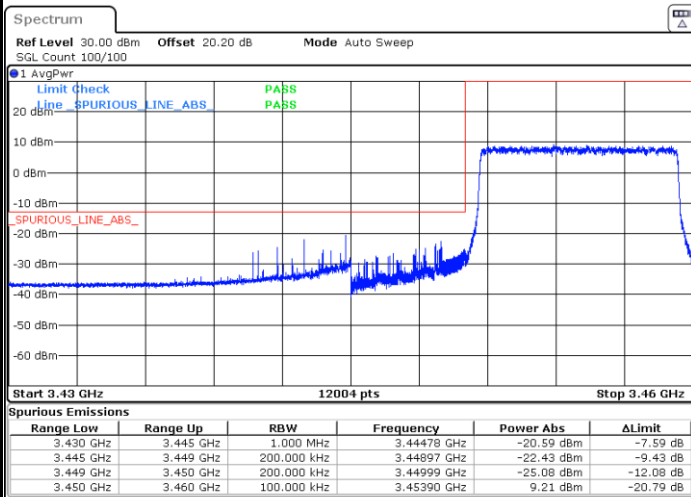


Date: 13.FEB.2023 10:12:25

Date: 13.FEB.2023 10:31:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.FEB.2023 10:13:01

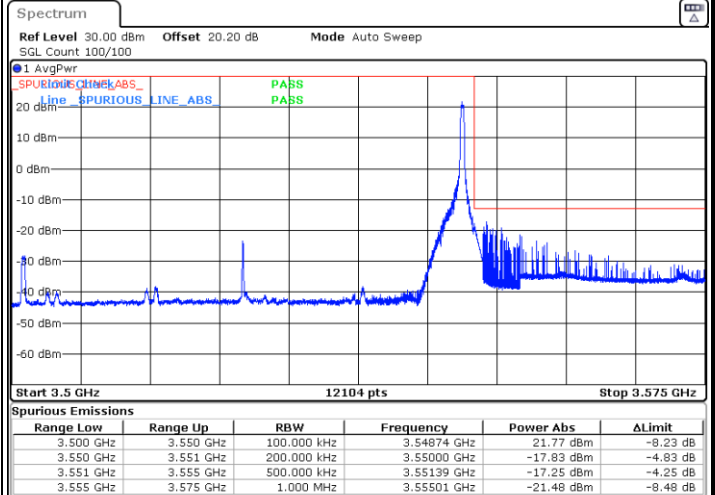
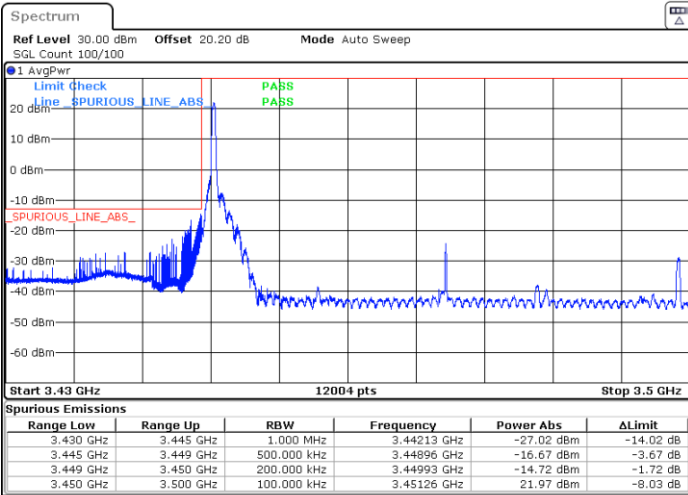
Date: 13.FEB.2023 10:30:18



FR1 n78 / 50MHz / DFT-S OFDM / PI/2 QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

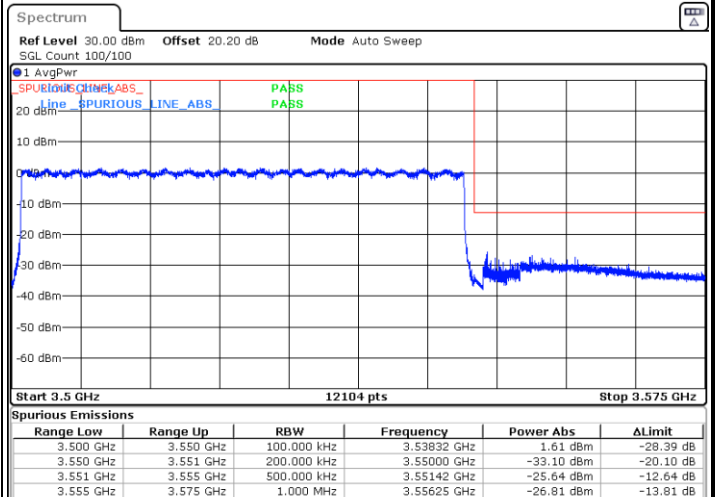
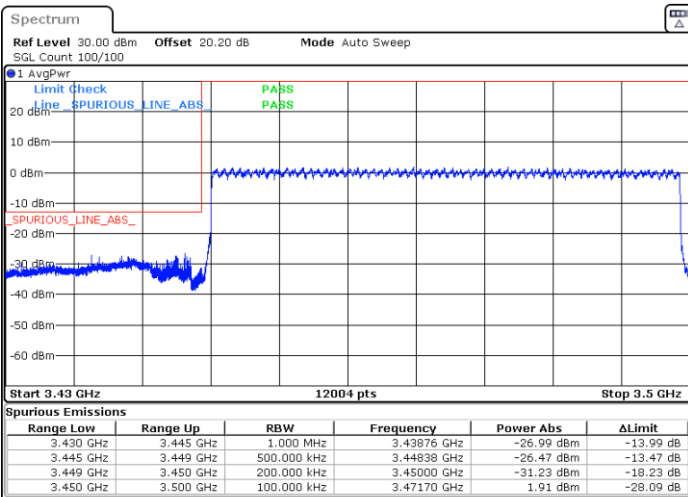


Date: 13.FEB.2023 10:33:51

Date: 13.FEB.2023 10:53:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 13.FEB.2023 10:36:25

Date: 13.FEB.2023 10:50:55