

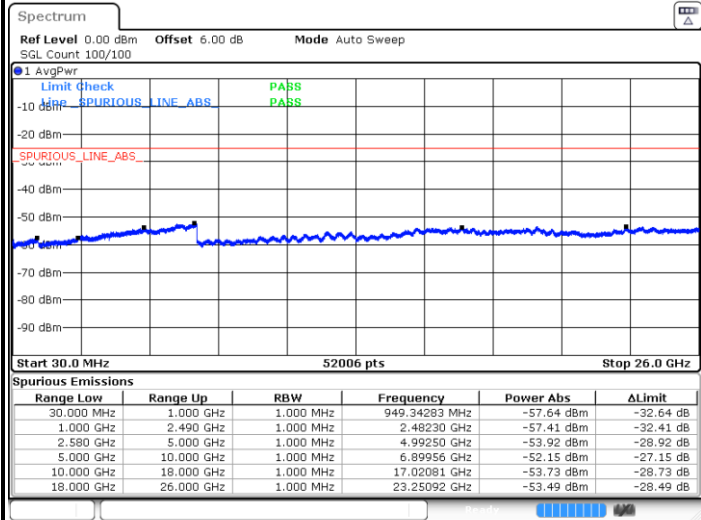


# Conducted Spurious Emission

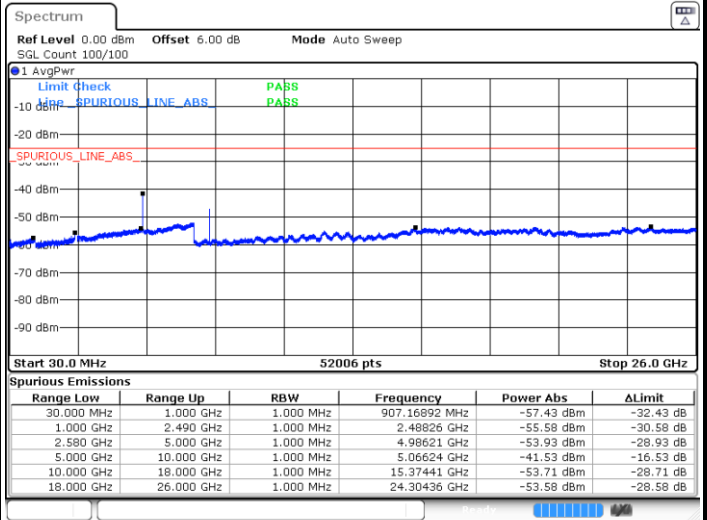
FR1 n7 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

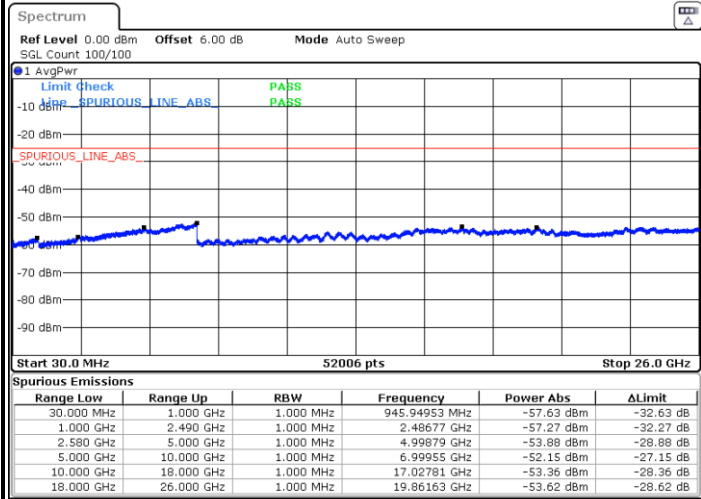


Date: 26 JUN 2022 18:24:45



Date: 26 JUN 2022 18:21:17

Highest Channel / 1RB1



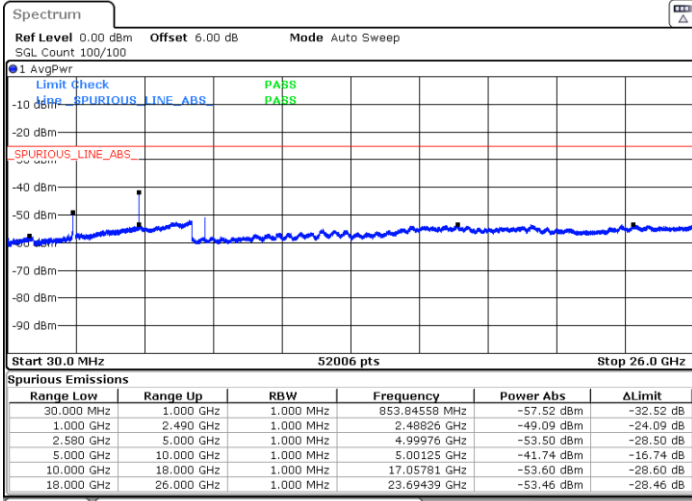
Date: 26 JUN 2022 18:30:51



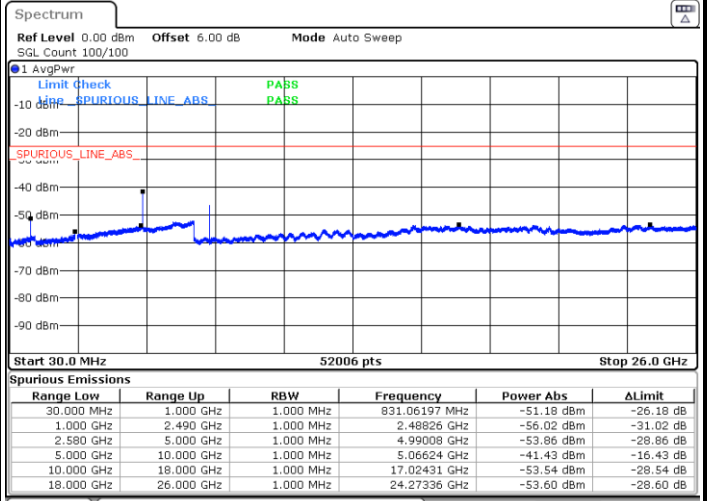
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

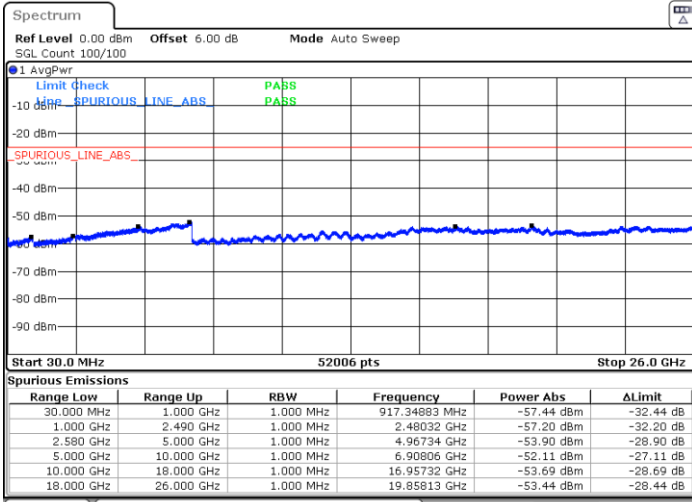


Date: 26 JUN 2022 18:23:54



Date: 26 JUN 2022 18:22:44

Highest Channel / 1RB1



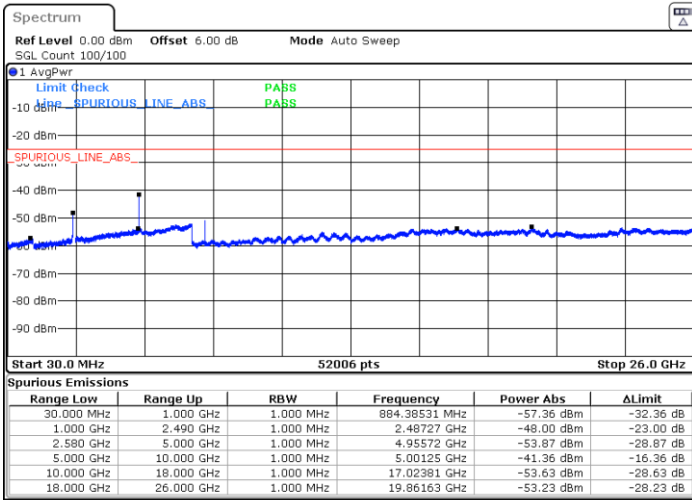
Date: 26 JUN 2022 18:32:14



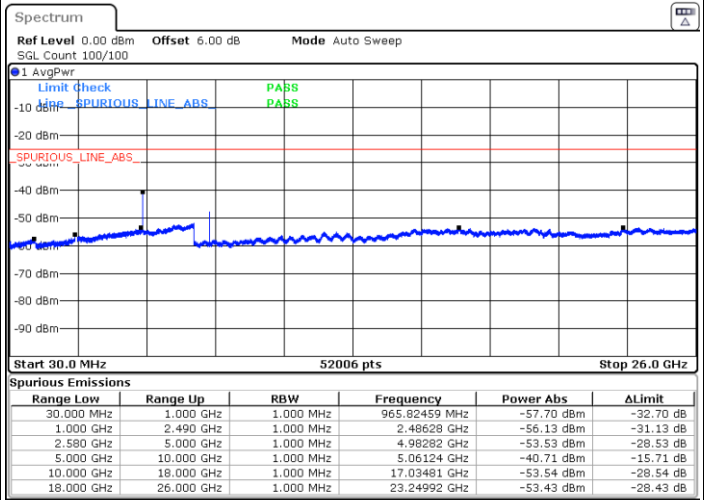
FR1 n7 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

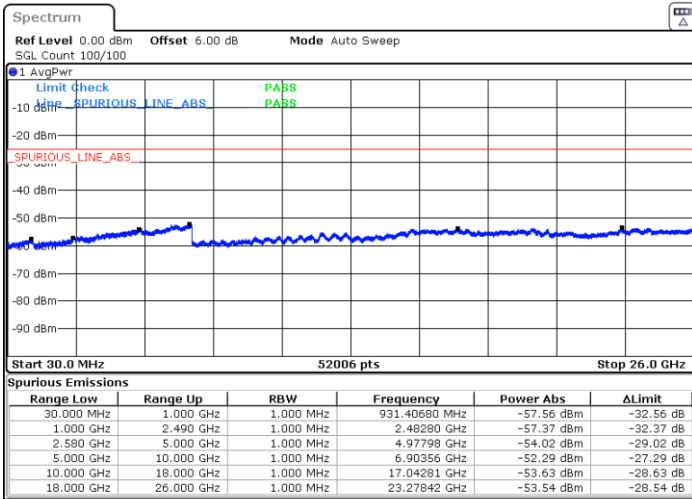


Date: 26 JUN 2022 18:12:41



Date: 26 JUN 2022 18:11:13

Highest Channel / 1RB1



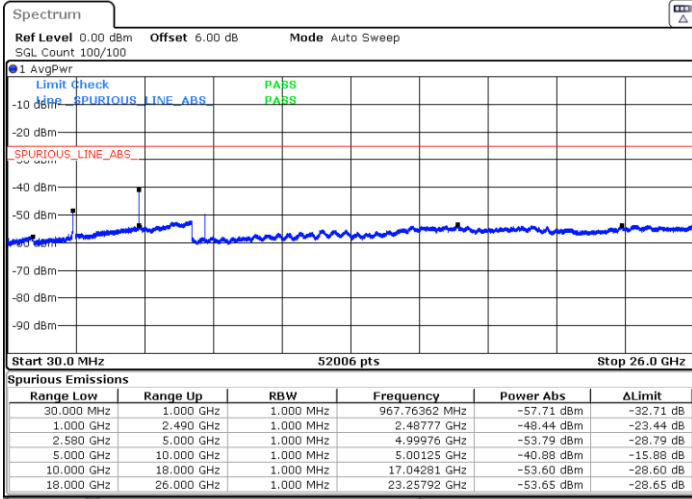
Date: 26 JUN 2022 18:55:09



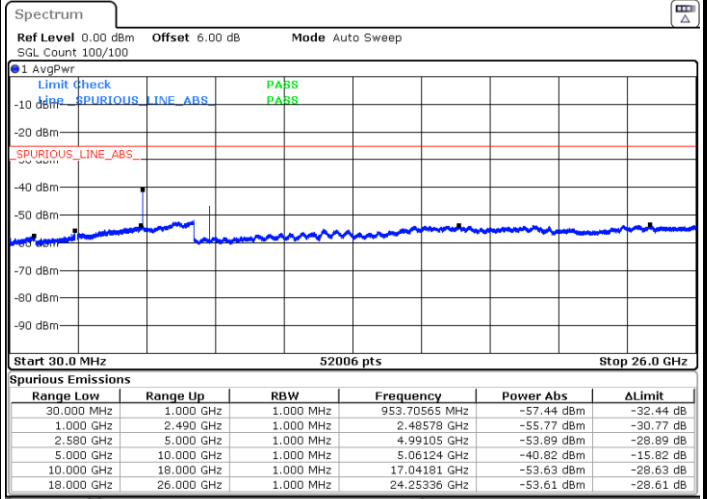
FR1 n7 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

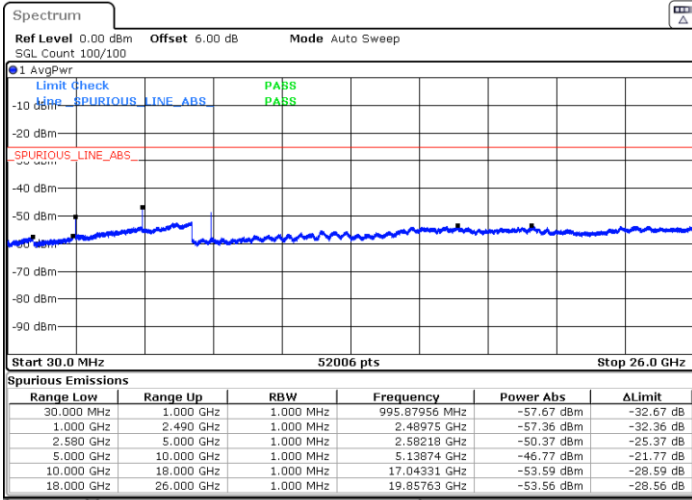


Date: 26 JUN 2022 18:13:32



Date: 26 JUN 2022 18:09:27

Highest Channel / 1RB1



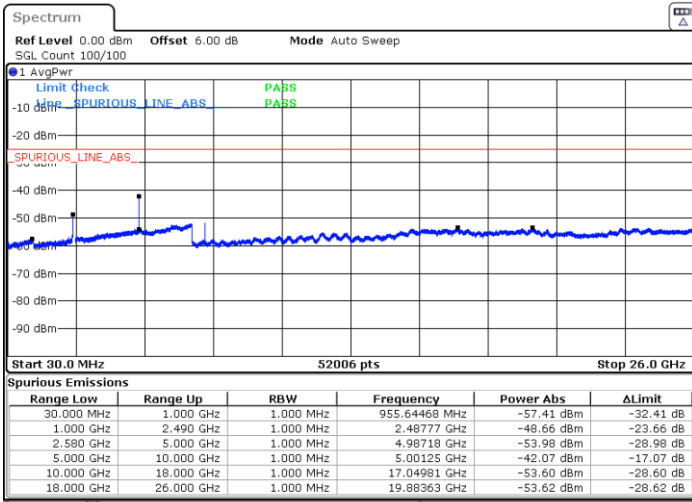
Date: 26 JUN 2022 18:57:06



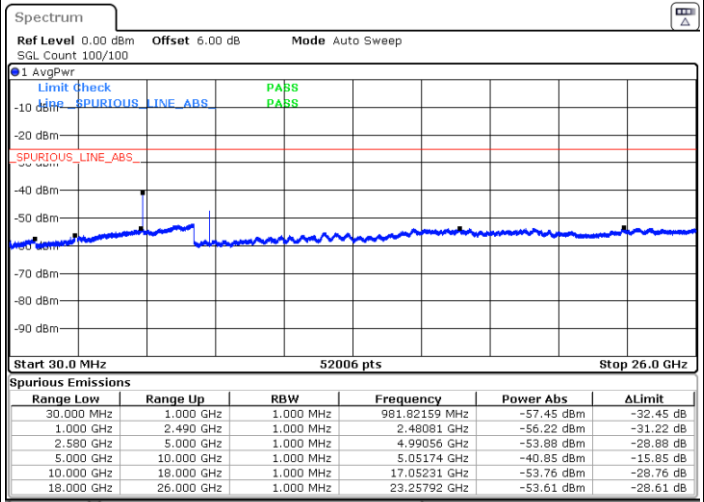
FR1 n7 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

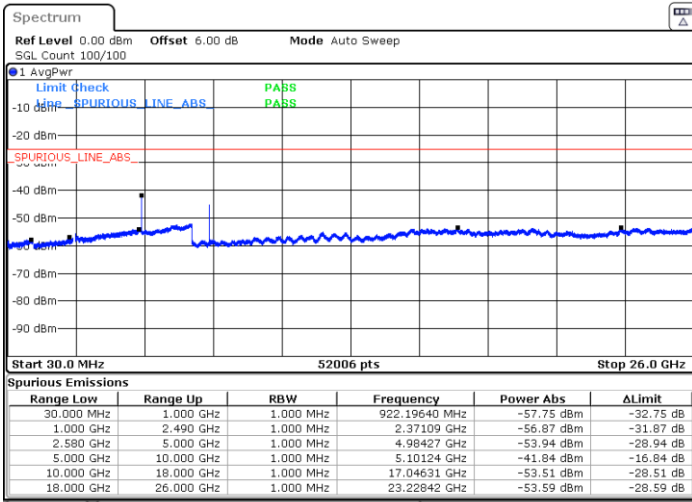


Date: 26 JUN 2022 17:57:25



Date: 26 JUN 2022 17:42:51

Highest Channel / 1RB1



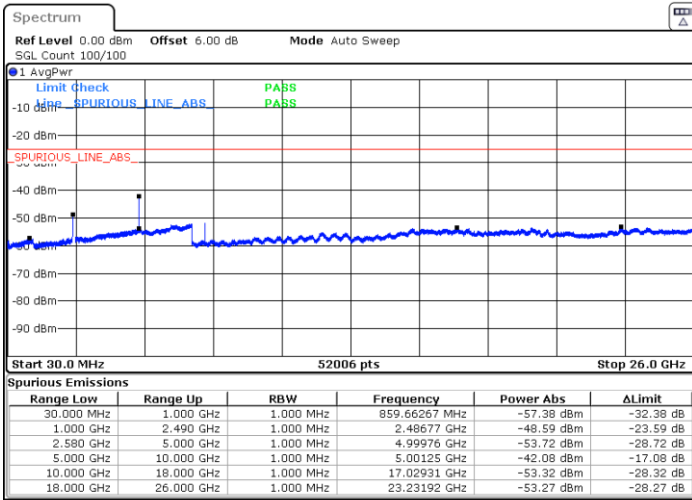
Date: 26 JUN 2022 17:58:33



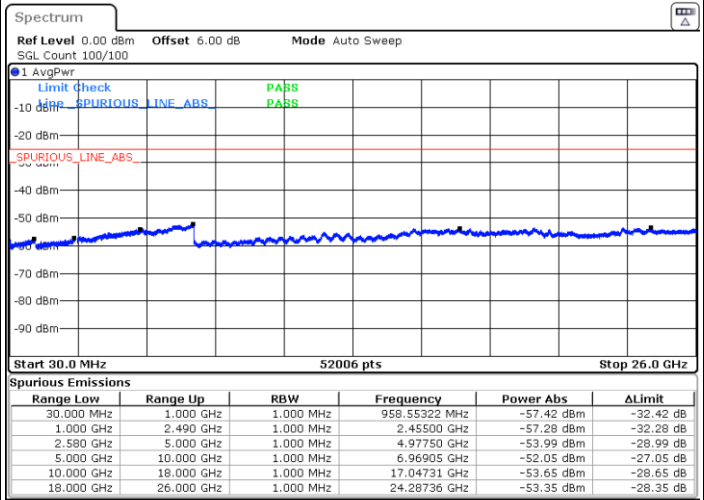
FR1 n7 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

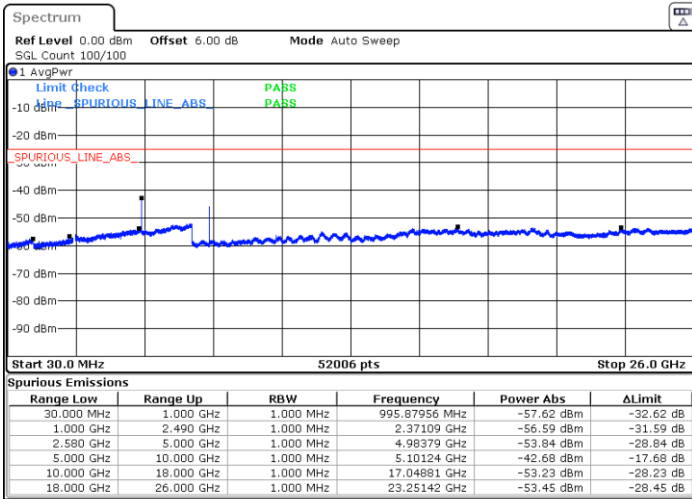


Date: 26 JUN 2022 17:56:35



Date: 26 JUN 2022 17:44:18

Highest Channel / 1RB1



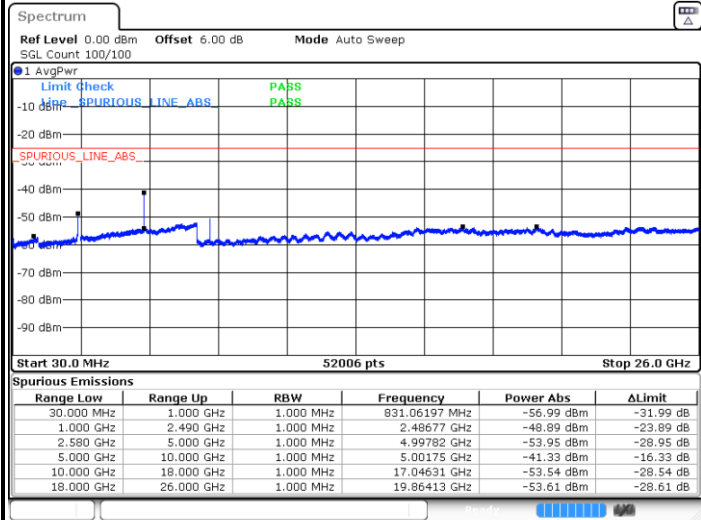
Date: 26 JUN 2022 17:59:22



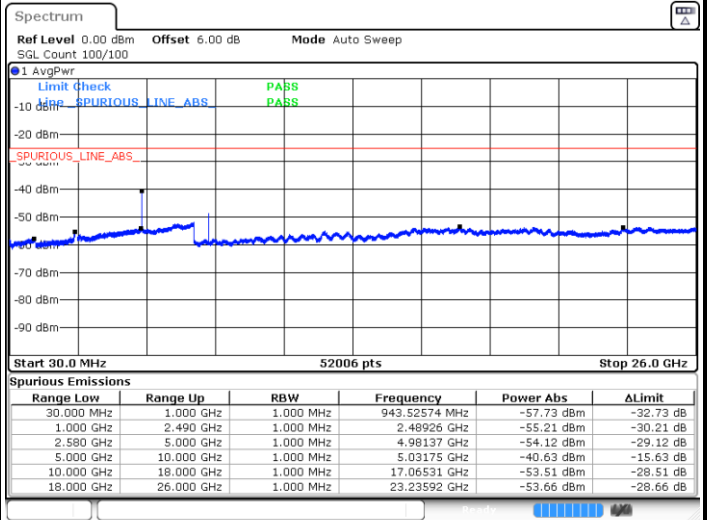
FR1 n7 / 40MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

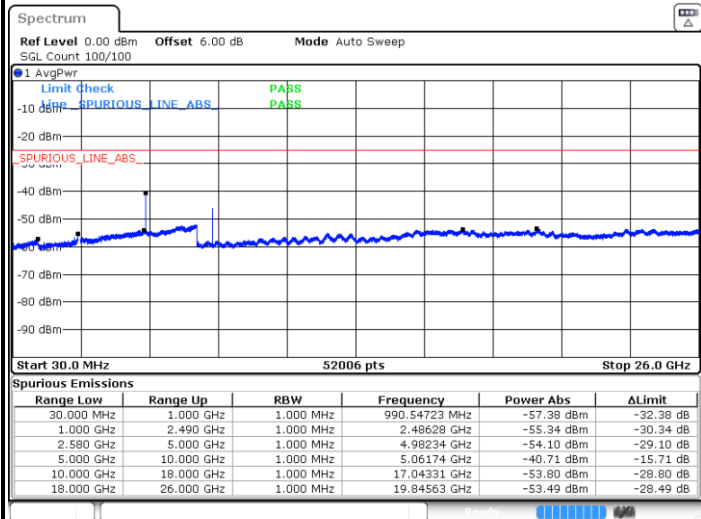


Date: 26 JUN 2022 17:29:09



Date: 26 JUN 2022 17:25:53

Highest Channel / 1RB1



Date: 26 JUN 2022 18:59:30

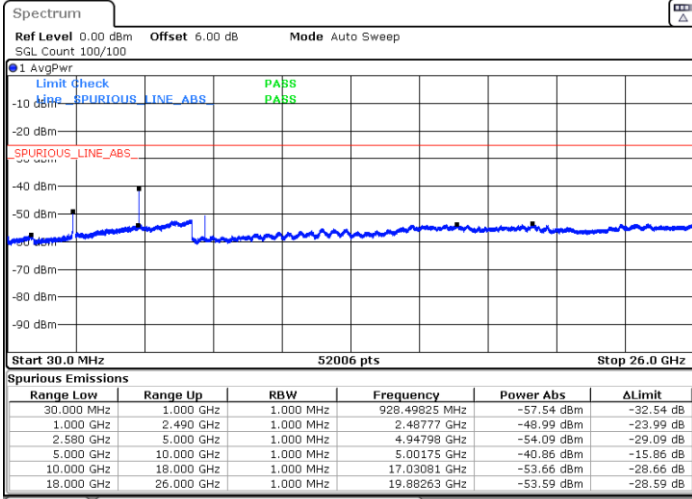




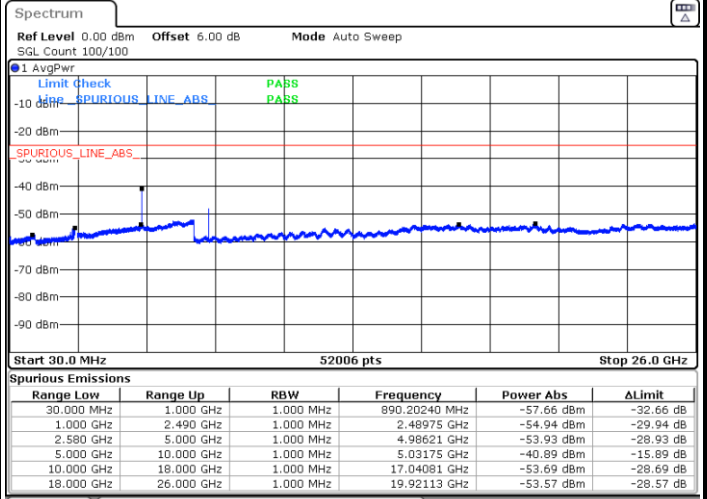
FR1 n7 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

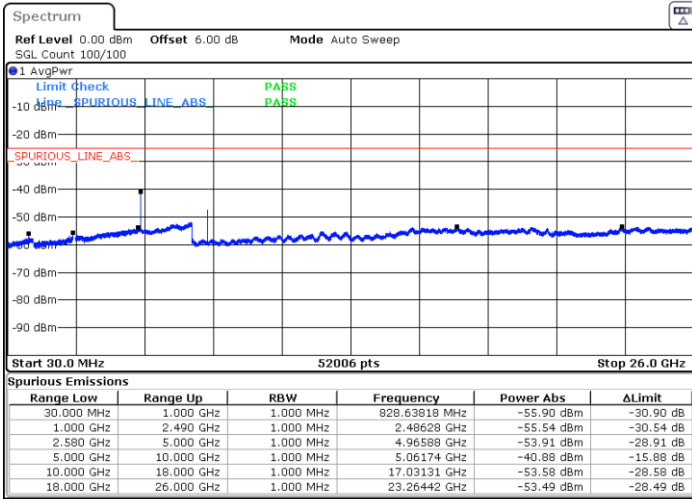


Date: 26 JUN 2022 17:28:20



Date: 26 JUN 2022 17:27:25

Highest Channel / 1RB1



Date: 26 JUN 2022 19:01:09



Frequency Stability

Test Conditions		FR1 n7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0065	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0001	

Note:

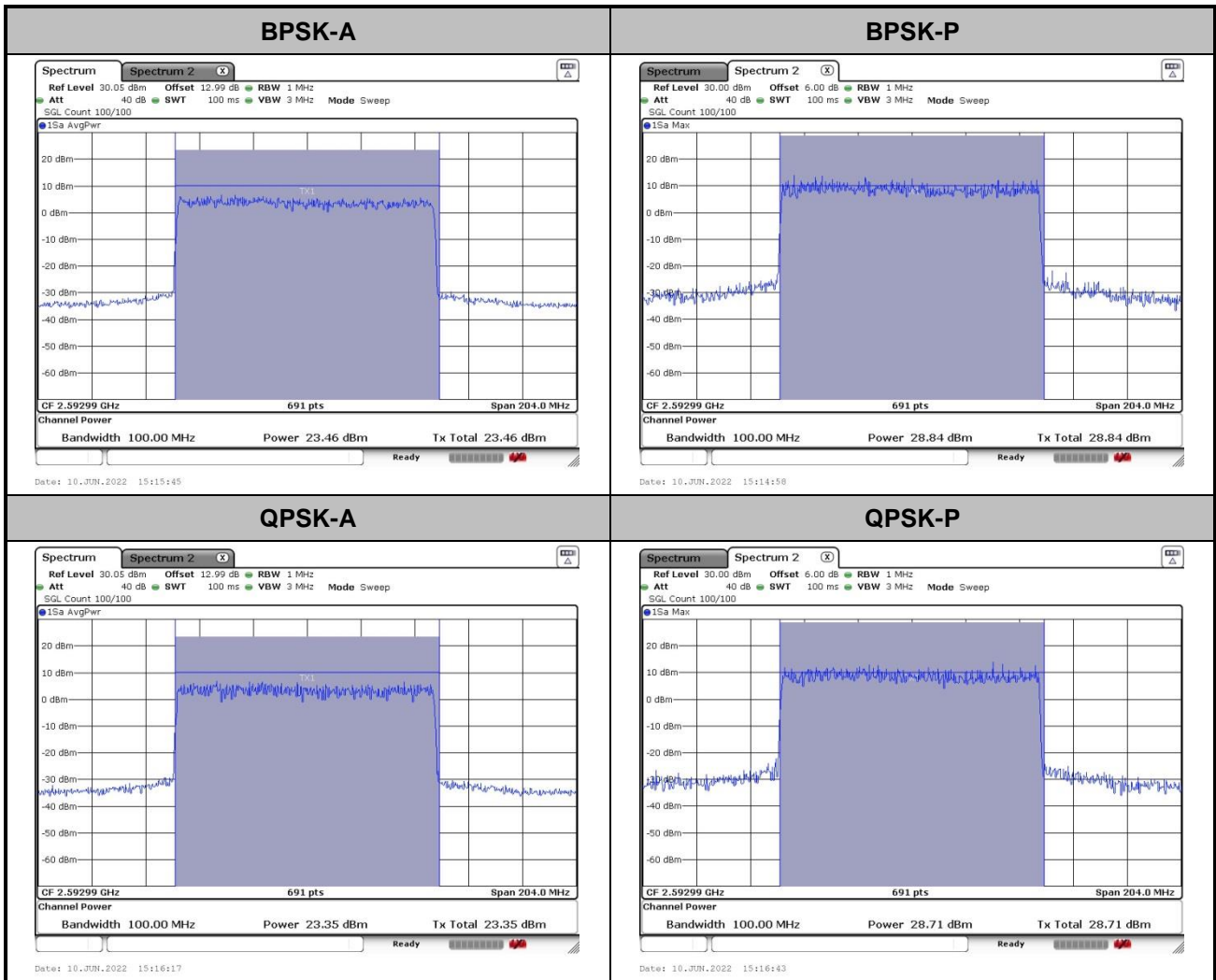
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n41

## Peak-to-Average Ratio

Mode	FR1 n41 / 100MHz / DFT-S OFDM				
Mod.	100M				Limit: 13dB
RB Size	BPSK	QPSK			Result
Middle CH	5.38	5.36			PASS





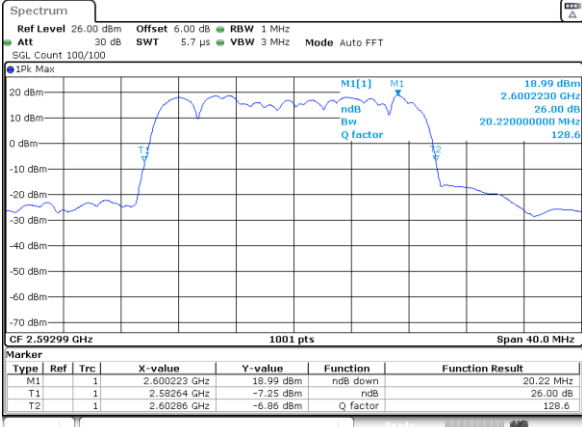
**26dB Bandwidth**

Mode	FR1 n41 : 26dB BW(20 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	20.22	20.18	20.3	20.22
Mode	FR1 n41 : 26dB BW(30 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	27.73	27.73	27.73	27.81
Mode	FR1 n41 : 26dB BW(40 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	38.28	38.44	38.28	38.12
Mode	FR1 n41 : 26dB BW(50 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	48.15	48.25	48.05	48.05
Mode	FR1 n41 : 26dB BW(60 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	60.42	60.3	60.42	60.42
Mode	FR1 n41 : 26dB BW(70 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	67.29	66.81	66.81	66.81
Mode	FR1 n41 : 26dB BW(80 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	82.32	82.00	81.84	82.00
Mode	FR1 n41 : 26dB BW(90 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	91.53	91.71	91.35	97.71
Mode	FR1 n41 : 26dB BW(100 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	101.5	101.7	101.1	101.3



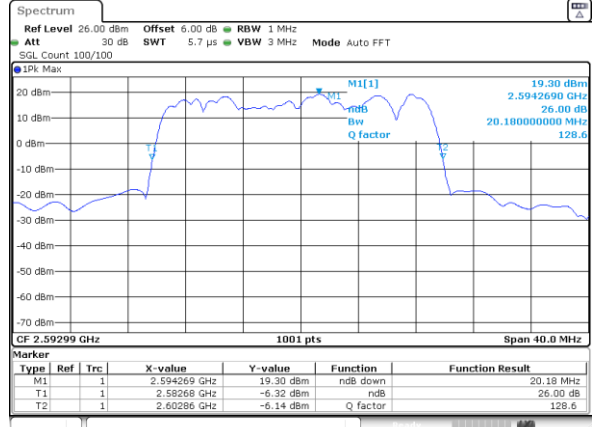
20MHz CP

QPSK



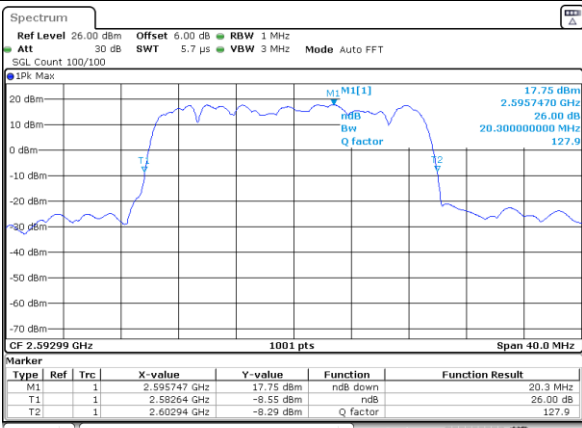
Date: 10 JUN 2022 14:52:28

16QAM



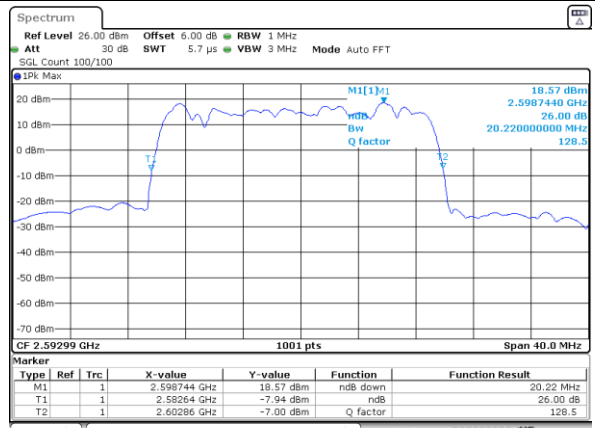
Date: 10 JUN 2022 14:51:59

64QAM



Date: 10 JUN 2022 14:50:01

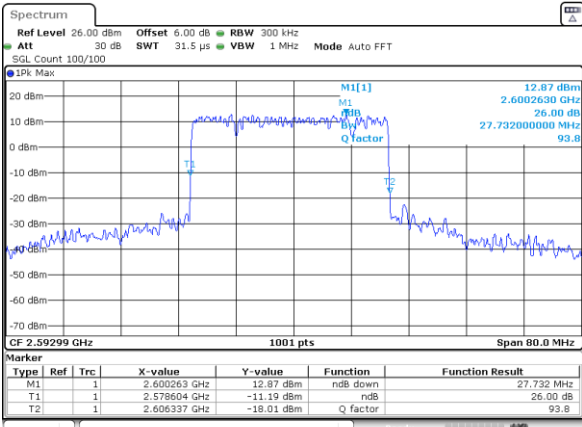
256QAM



Date: 10 JUN 2022 14:49:41

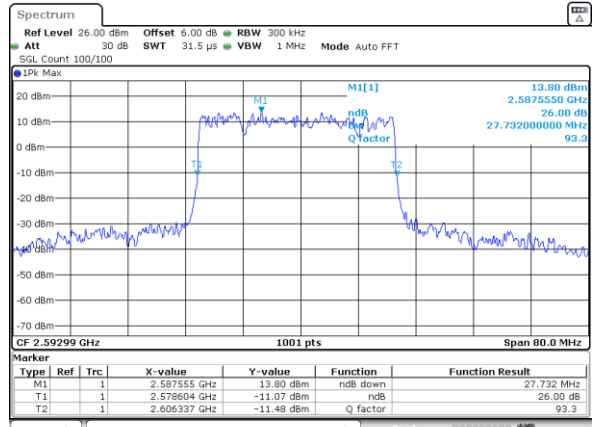
30MHz CP

QPSK



Date: 10 JUN 2022 14:44:52

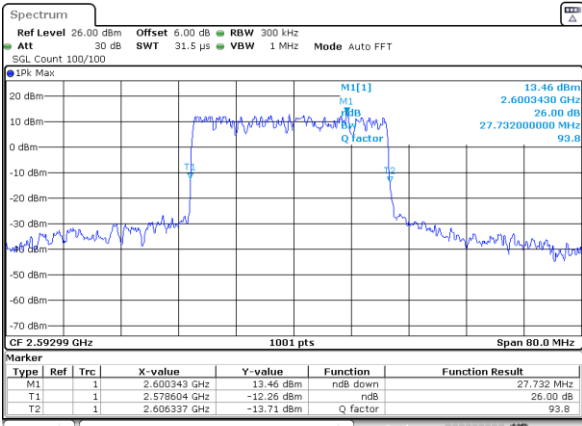
16QAM



Date: 10 JUN 2022 14:45:41

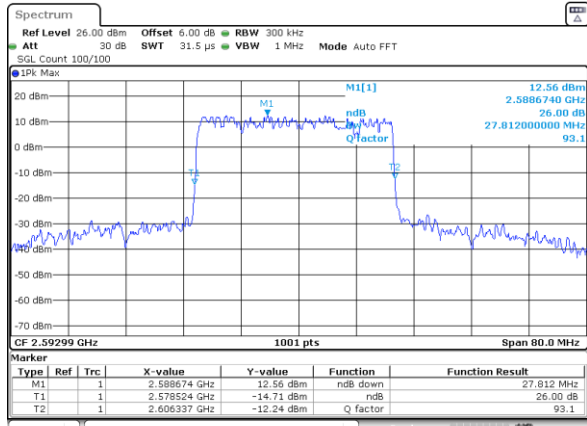


64QAM



Date: 10\_JUN,2022 14:47:29

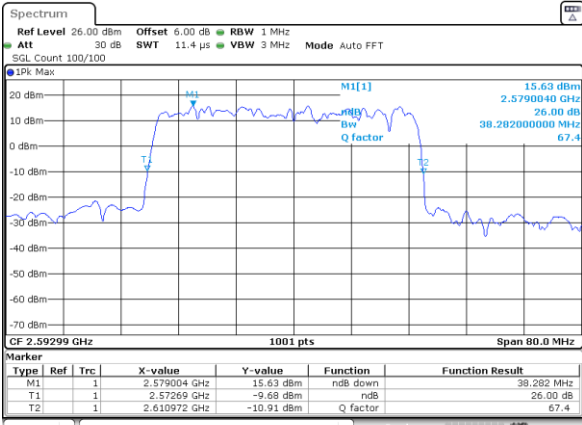
256QAM



Date: 10\_JUN,2022 14:47:55

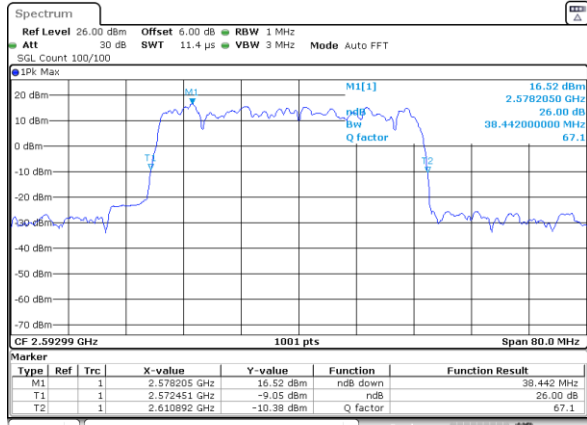
40MHz CP

QPSK



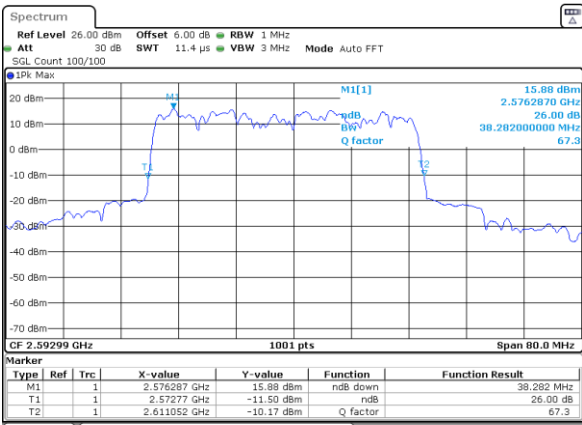
Date: 10\_JUN,2022 14:42:48

16QAM



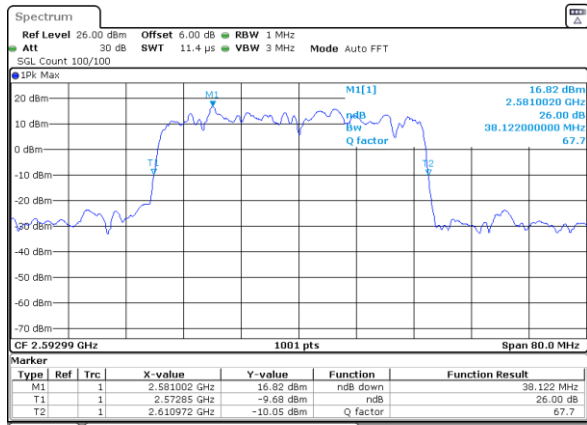
Date: 10\_JUN,2022 14:42:29

64QAM



Date: 10\_JUN,2022 14:42:04

256QAM

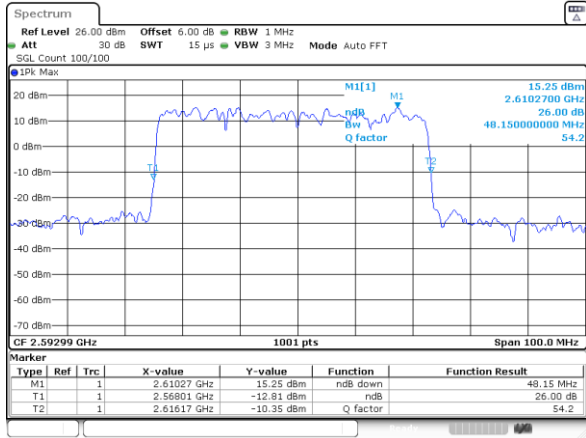


Date: 10\_JUN,2022 14:41:40



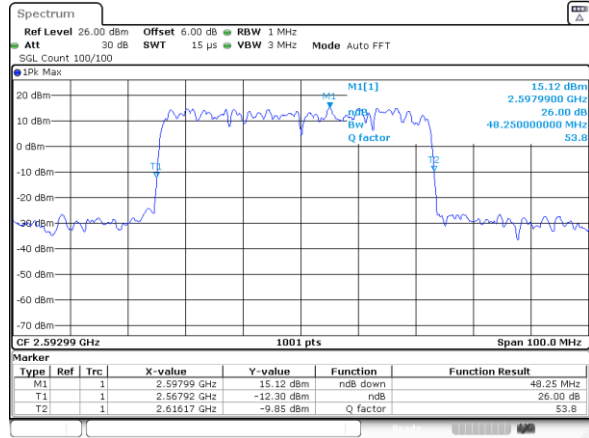
50MHz CP

QPSK



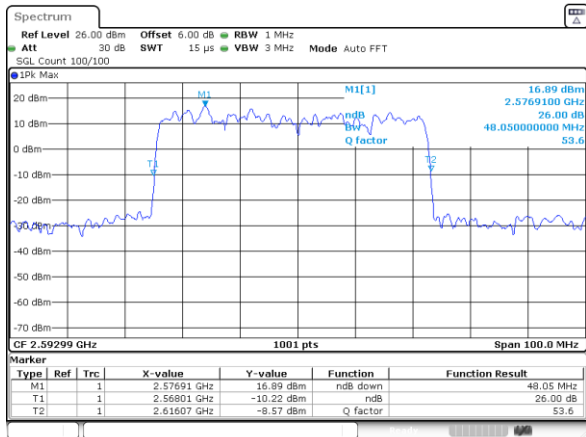
Date: 10\_JUN,2022 14:38:43

16QAM



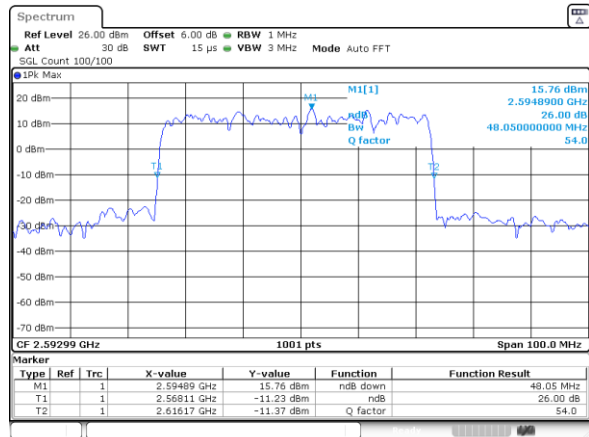
Date: 10\_JUN,2022 14:39:58

64QAM



Date: 10\_JUN,2022 14:40:33

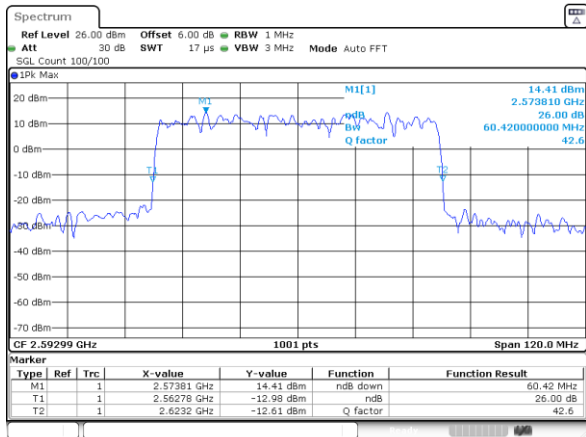
256QAM



Date: 10\_JUN,2022 14:41:08

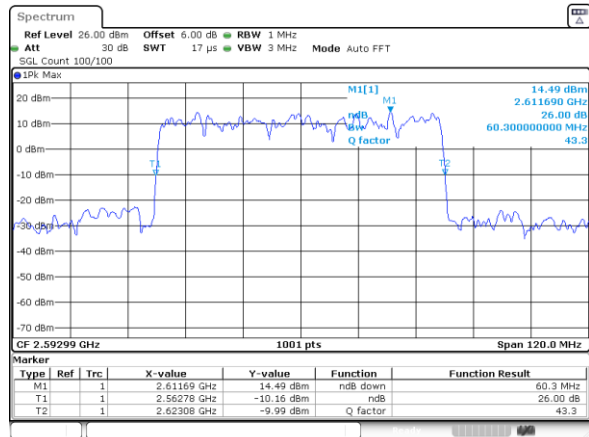
60MHz CP

QPSK



Date: 10\_JUN,2022 13:43:14

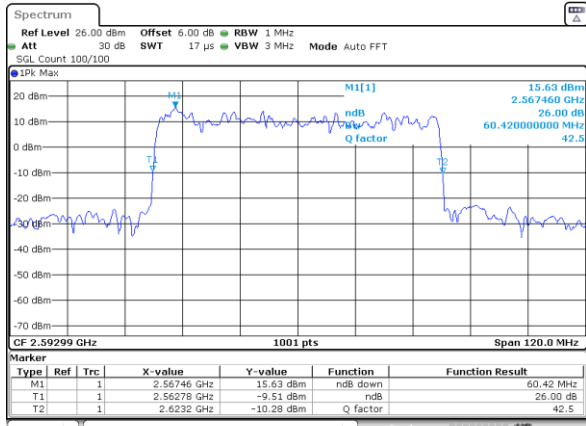
16QAM



Date: 10\_JUN,2022 13:42:34

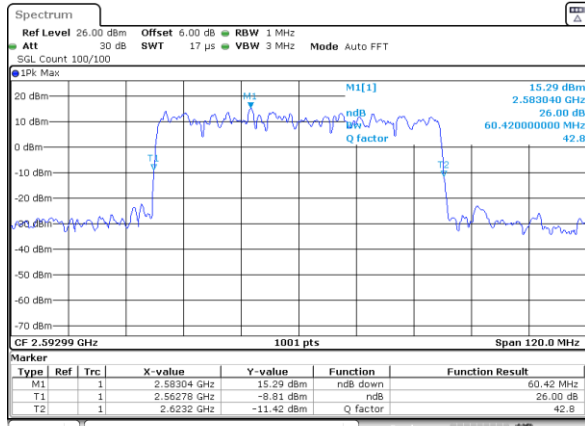


64QAM



Date: 10\_JUN,2022 13:42:04

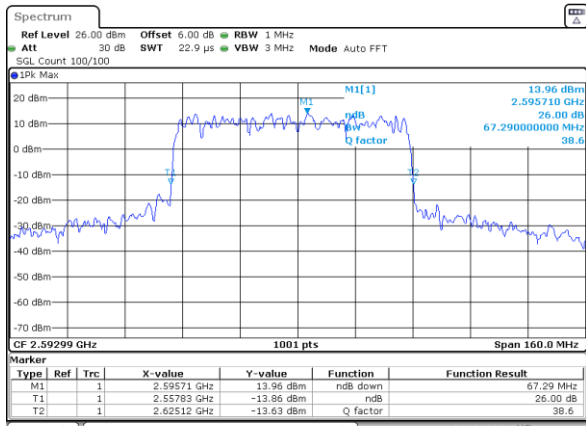
256QAM



Date: 10\_JUN,2022 13:43:02

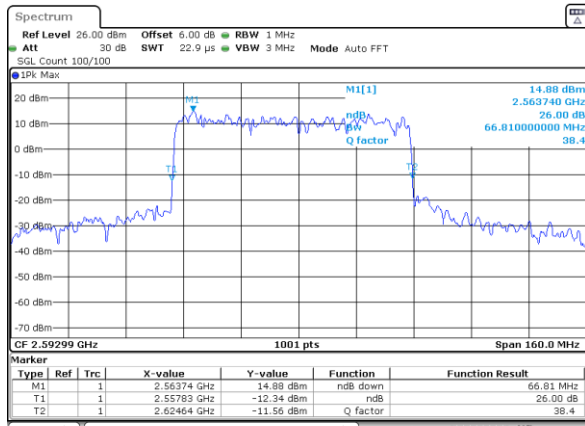
70MHz CP

QPSK



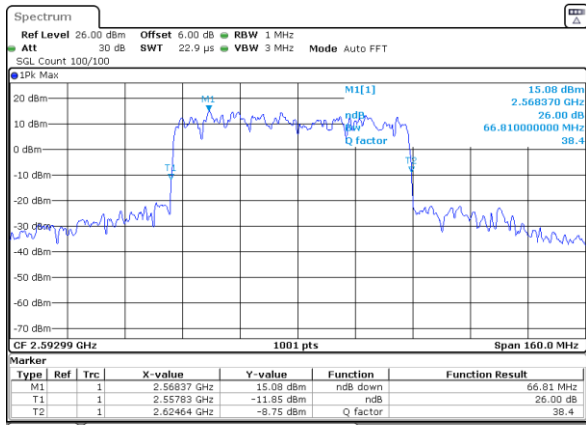
Date: 10\_JUN,2022 13:36:41

16QAM



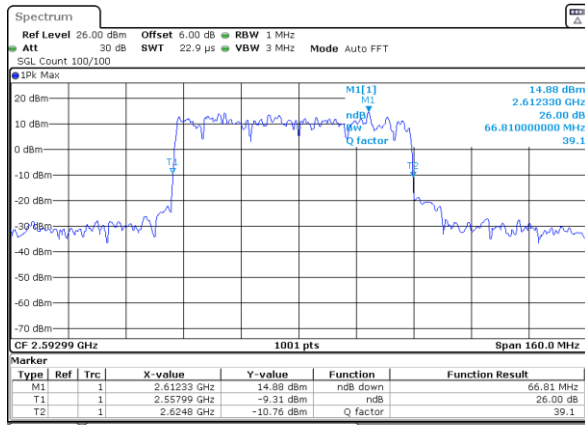
Date: 10\_JUN,2022 13:38:55

64QAM



Date: 10\_JUN,2022 13:39:33

256QAM



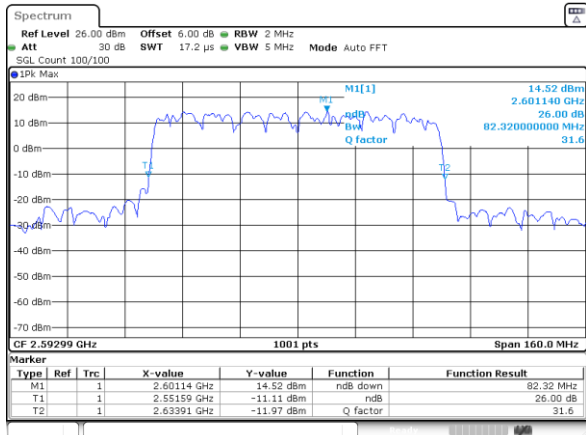
Date: 10\_JUN,2022 13:40:08





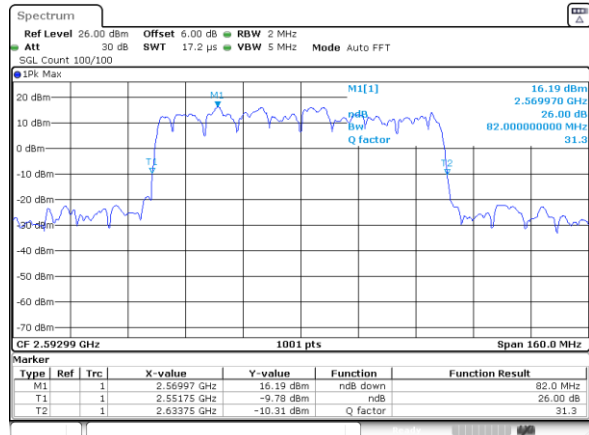
80MHz CP

QPSK



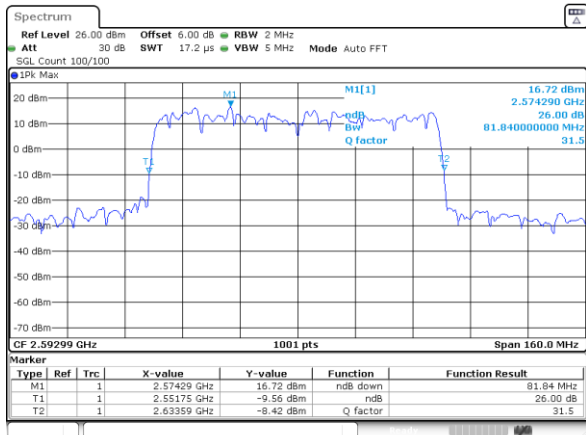
Date: 10 JUN 2022 13:31:58

16QAM



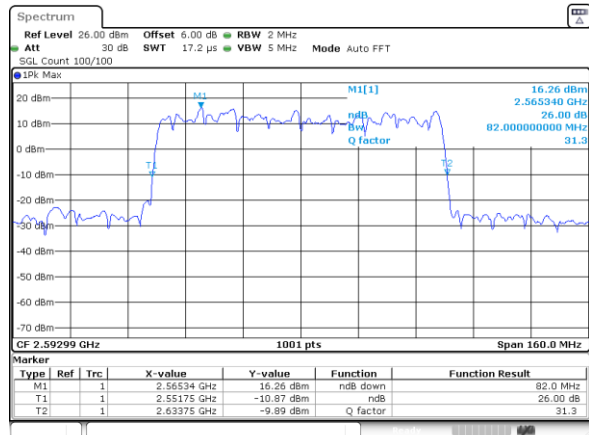
Date: 10 JUN 2022 13:31:30

64QAM



Date: 10 JUN 2022 13:30:54

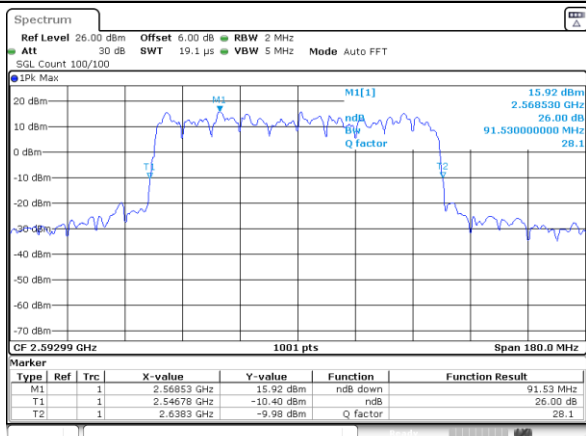
256QAM



Date: 10 JUN 2022 13:30:22

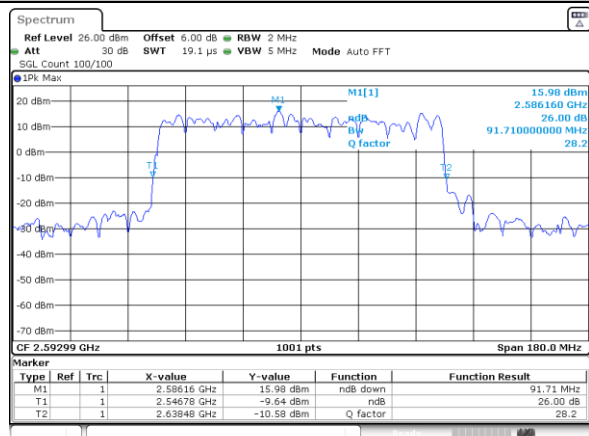
90MHz CP

QPSK



Date: 10 JUN 2022 13:26:53

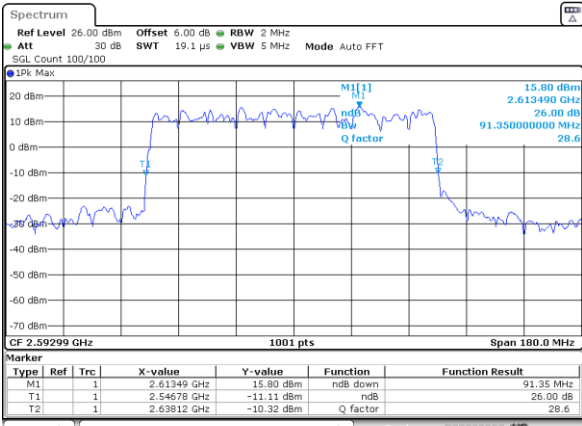
16QAM



Date: 10 JUN 2022 13:27:36

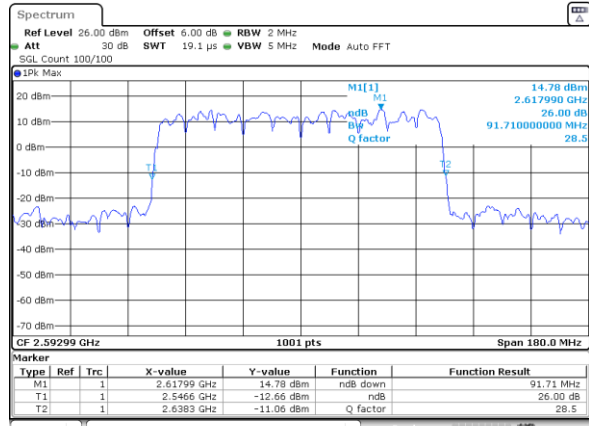


64QAM



Date: 10\_JUN,2022 13:28:14

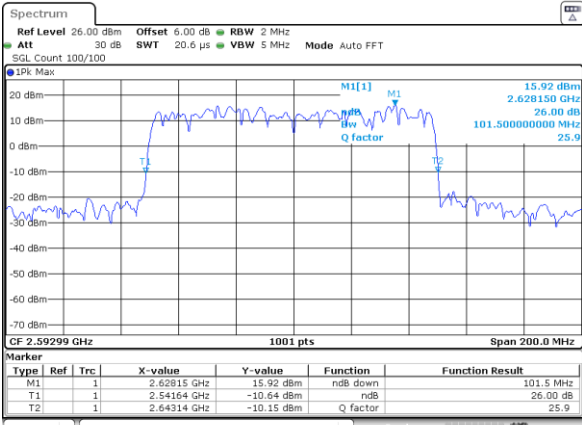
256QAM



Date: 10\_JUN,2022 13:28:53

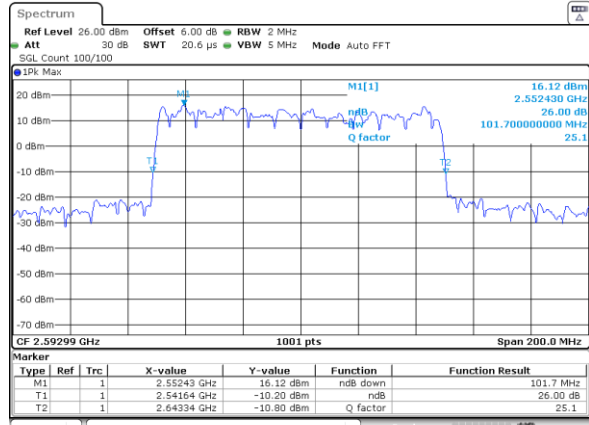
100MHz CP

QPSK



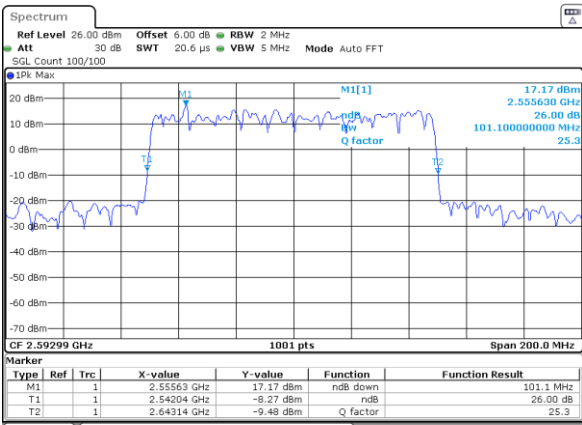
Date: 10\_JUN,2022 10:36:40

16QAM



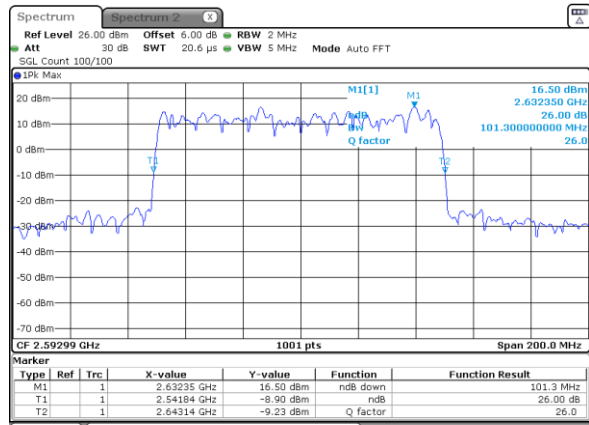
Date: 10\_JUN,2022 10:37:20

64QAM



Date: 10\_JUN,2022 10:37:56

256QAM



Date: 10\_JUN,2022 17:08:05



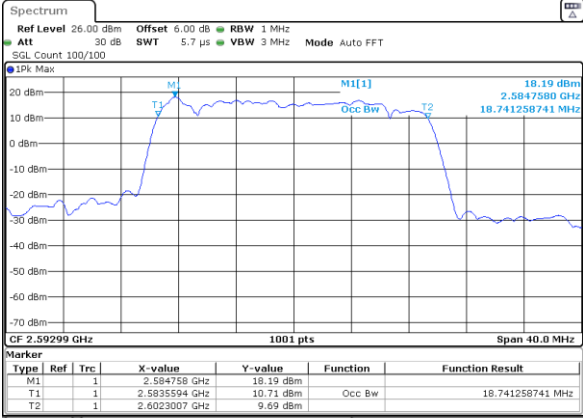
**Occupied Bandwidth**

Mode	FR1 n41 : OB BW(20 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.74	18.50	18.58	18.50
Mode	FR1 n41 : OB BW(30 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	26.77	26.93	26.69	26.85
Mode	FR1 n41 : OB BW(40 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	35.80	35.88	35.96	35.88
Mode	FR1 n41 : OB BW(50 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	45.95	46.05	46.25	45.95
Mode	FR1 n41 : OB BW(60 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	58.26	58.14	57.90	58.02
Mode	FR1 n41 : OB BW(70 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	64.26	64.10	64.26	64.26
Mode	FR1 n41 : OB BW(80 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	77.52	78.48	77.68	77.68
Mode	FR1 n41 : OB BW(90 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	86.67	87.03	86.85	87.03
Mode	FR1 n41 : OB BW(100 MHz) / CP OFDM			
BW	CP			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	97.10	97.10	96.50	97.30



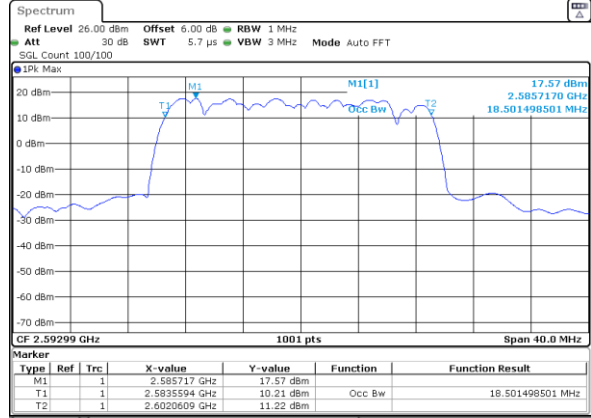
20MHz CP

QPSK



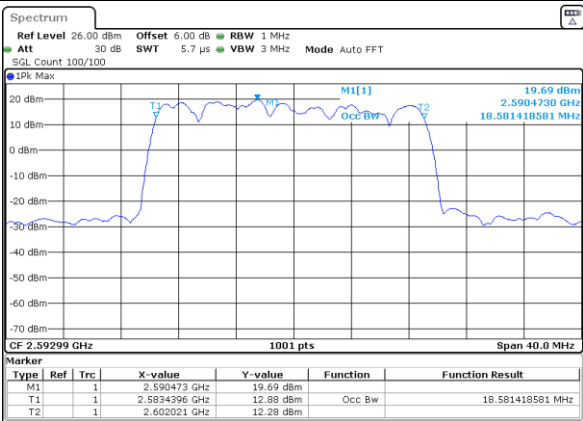
Date: 10 JUN 2022 14:52:19

16QAM



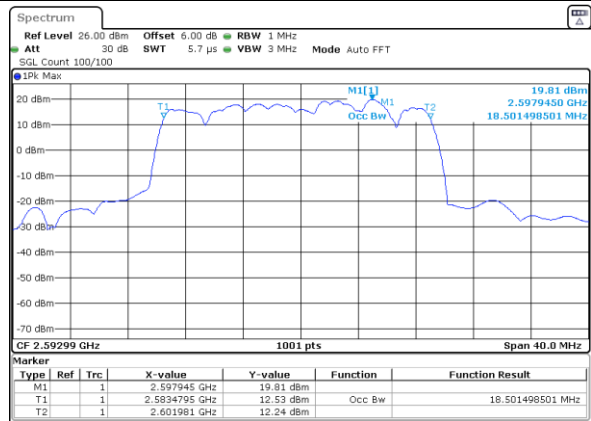
Date: 10 JUN 2022 14:50:19

64QAM



Date: 10 JUN 2022 14:49:54

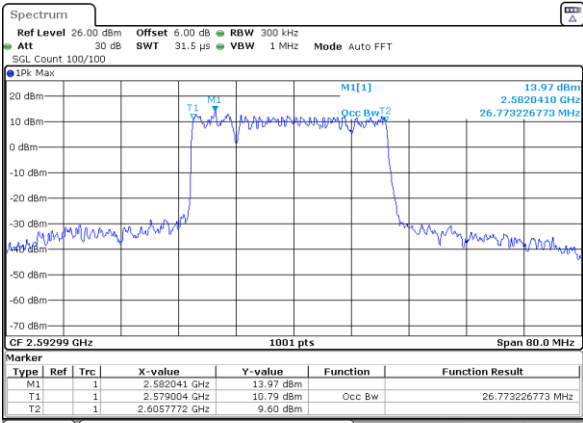
256QAM



Date: 10 JUN 2022 14:49:32

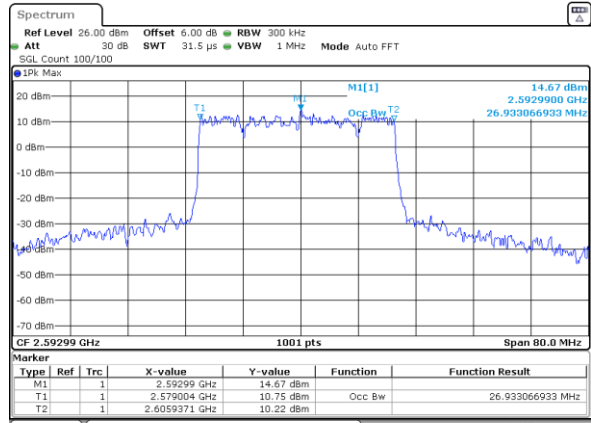
30MHz CP

QPSK



Date: 10 JUN 2022 14:44:44

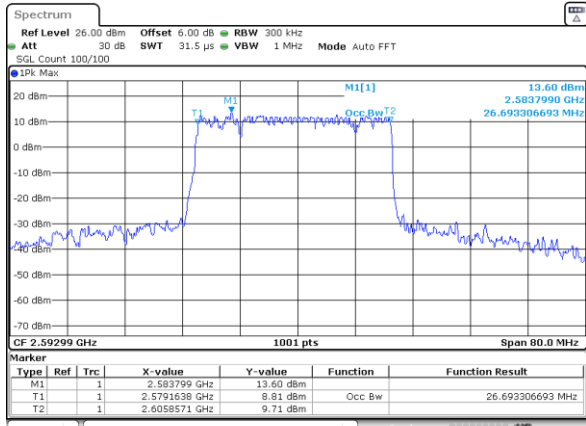
16QAM



Date: 10 JUN 2022 14:45:26

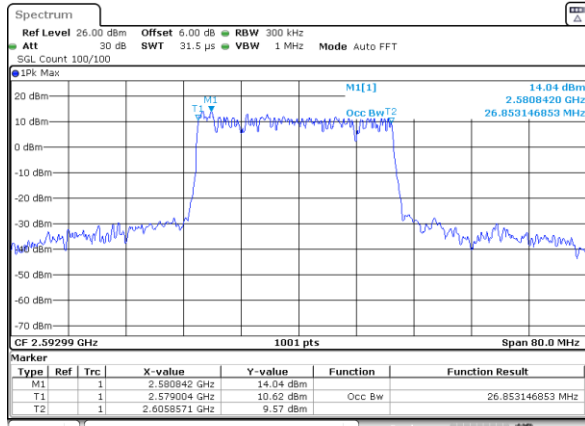


64QAM



Date: 10\_JUN,2022 14:45:54

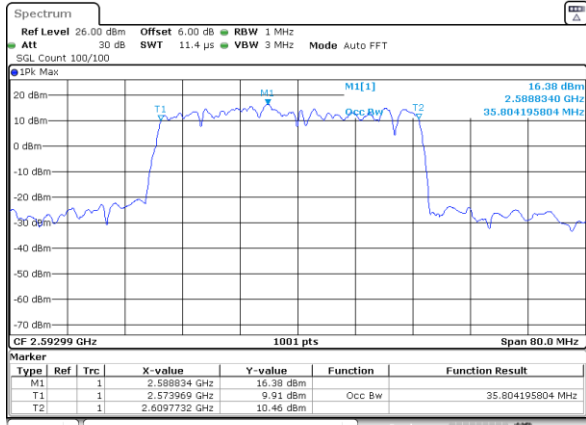
256QAM



Date: 10\_JUN,2022 14:47:47

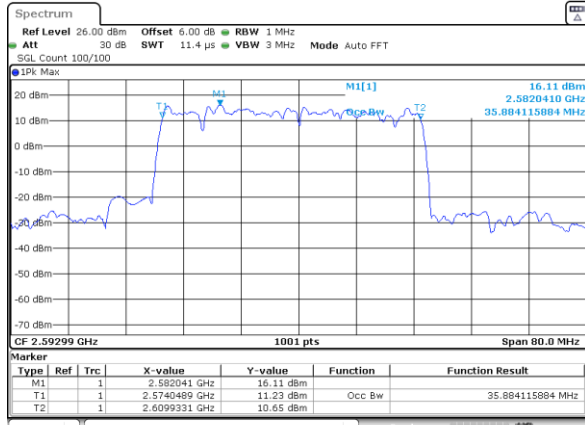
40MHz CP

QPSK



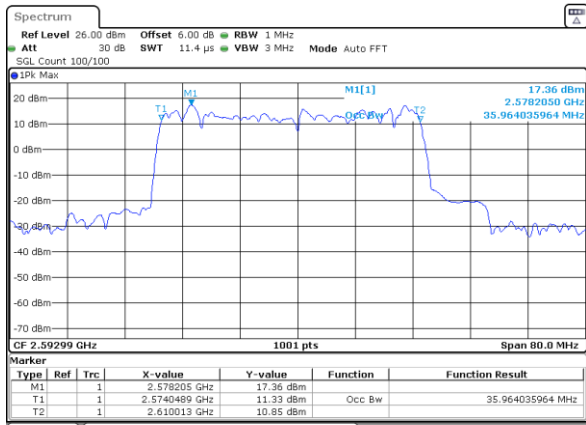
Date: 10\_JUN,2022 14:42:43

16QAM



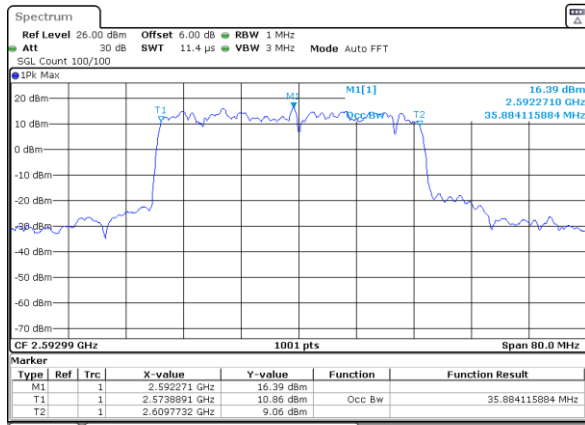
Date: 10\_JUN,2022 14:42:20

64QAM



Date: 10\_JUN,2022 14:41:53

256QAM

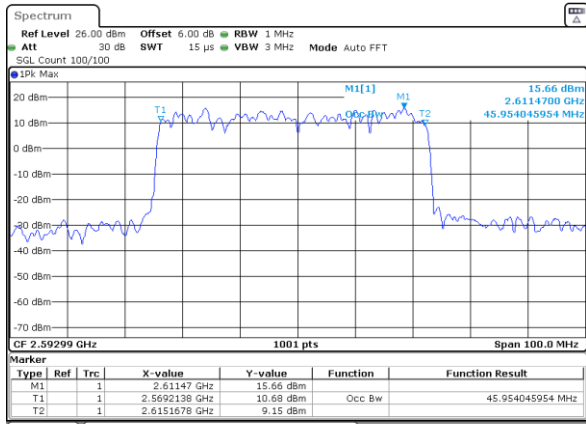


Date: 10\_JUN,2022 14:41:32



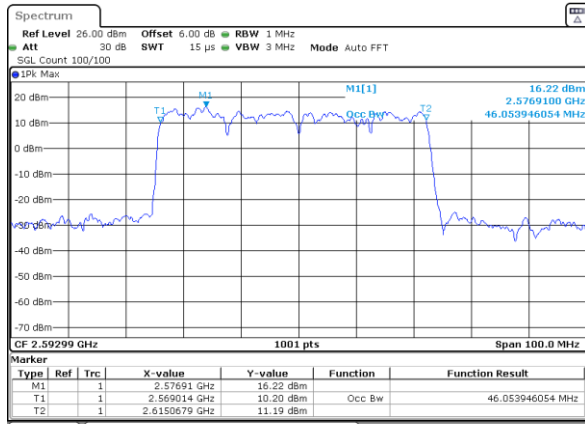
50MHz CP

QPSK



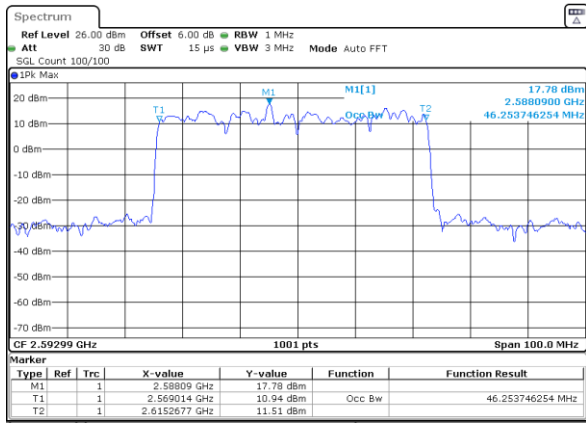
Date: 10 JUN 2022 14:38:12

16QAM



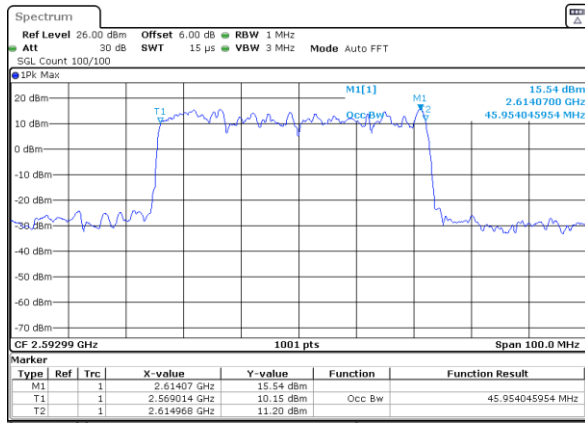
Date: 10 JUN 2022 14:39:48

64QAM



Date: 10 JUN 2022 14:40:22

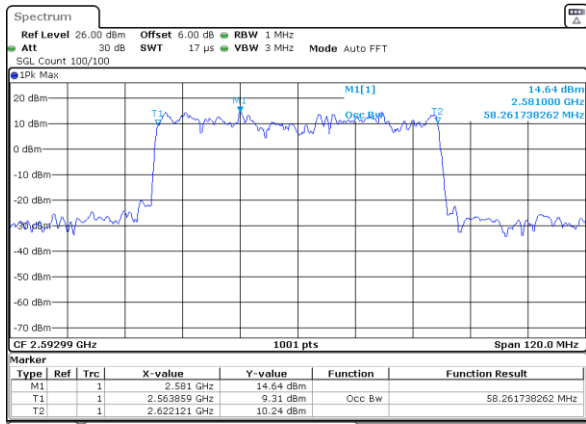
256QAM



Date: 10 JUN 2022 14:40:54

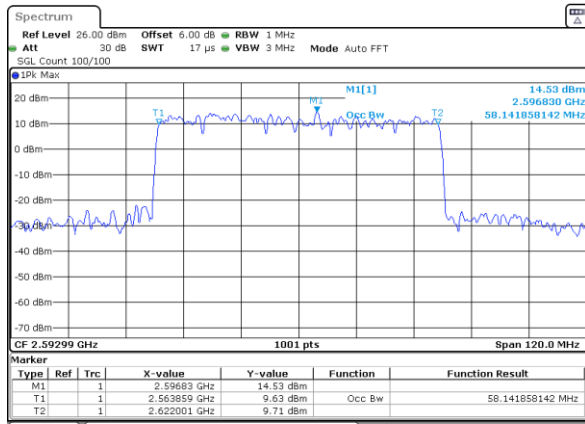
60MHz CP

QPSK



Date: 10 JUN 2022 13:42:52

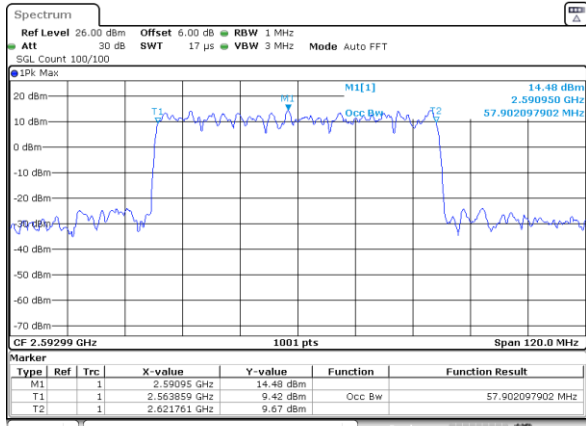
16QAM



Date: 10 JUN 2022 13:42:24

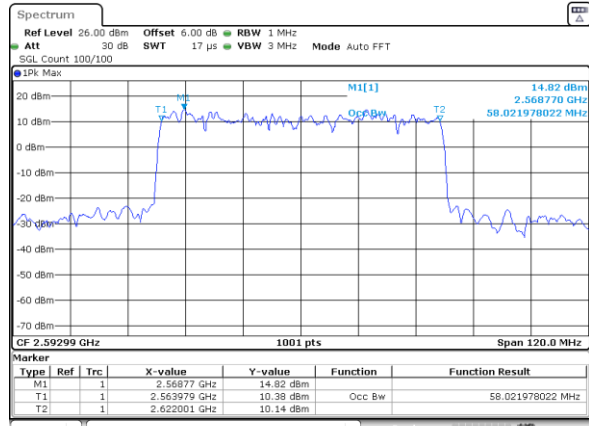


64QAM



Date: 10 JUN 2022 13:41:54

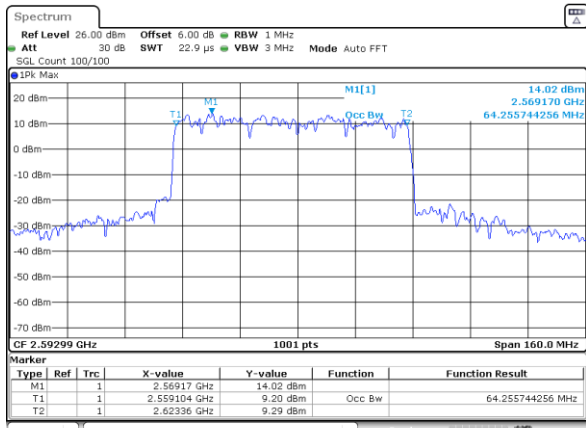
256QAM



Date: 10 JUN 2022 13:40:46

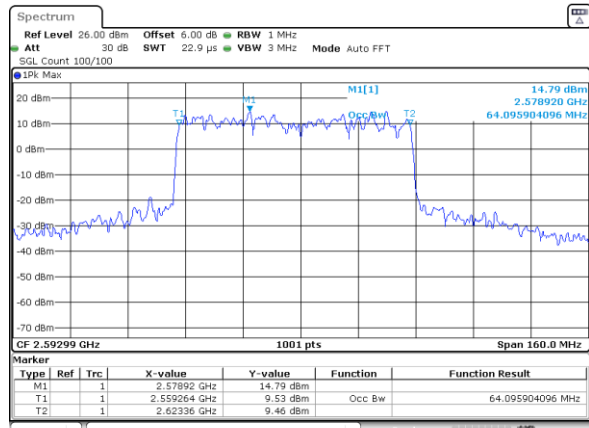
70MHz CP

QPSK



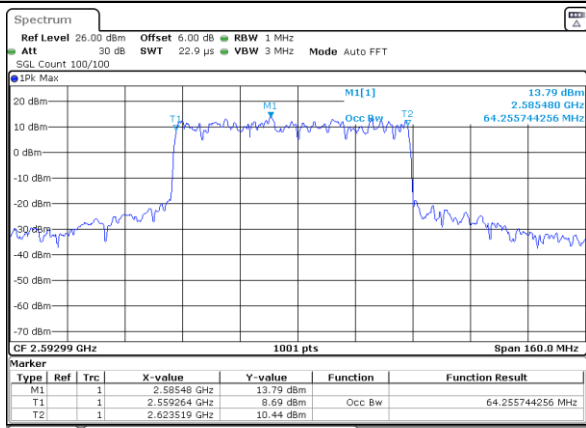
Date: 10 JUN 2022 13:36:32

16QAM



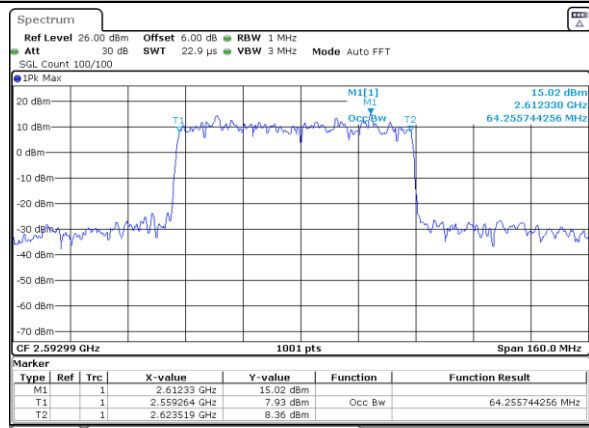
Date: 10 JUN 2022 13:38:44

64QAM



Date: 10 JUN 2022 13:39:23

256QAM

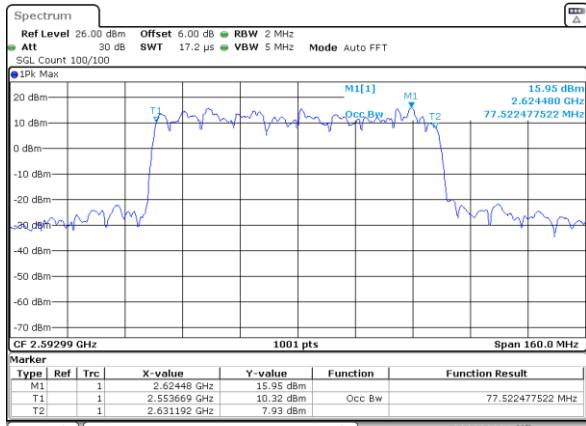


Date: 10 JUN 2022 13:39:57



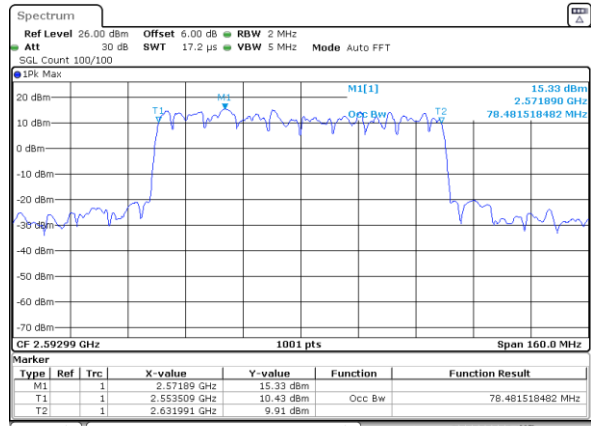
80MHz CP

QPSK



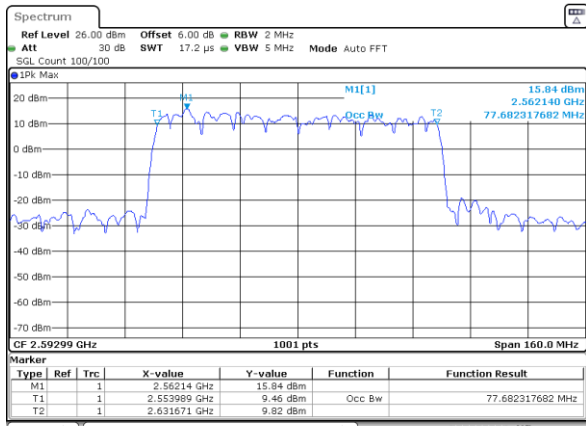
Date: 10 JUN 2022 13:31:47

16QAM



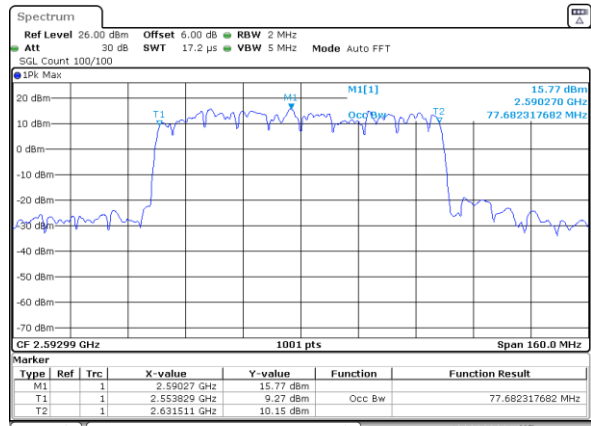
Date: 10 JUN 2022 13:31:16

64QAM



Date: 10 JUN 2022 13:30:40

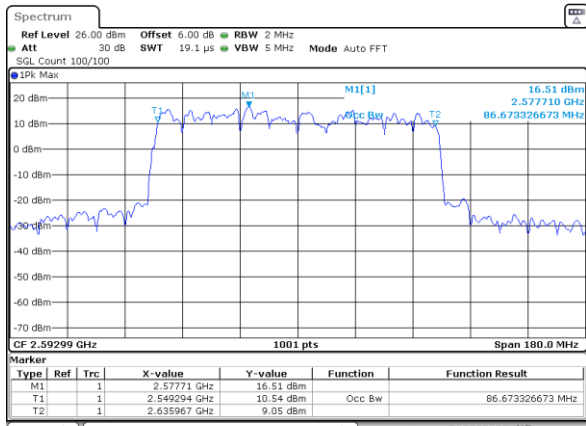
256QAM



Date: 10 JUN 2022 13:30:06

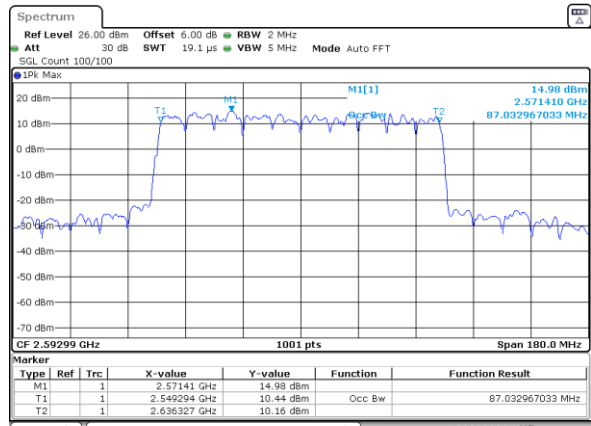
90MHz CP

QPSK



Date: 10 JUN 2022 13:26:38

16QAM

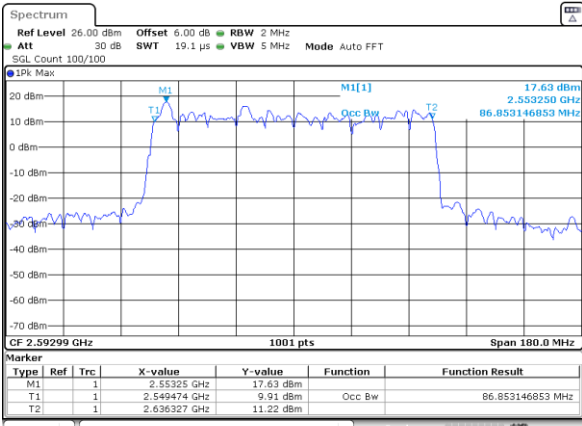


Date: 10 JUN 2022 13:27:18



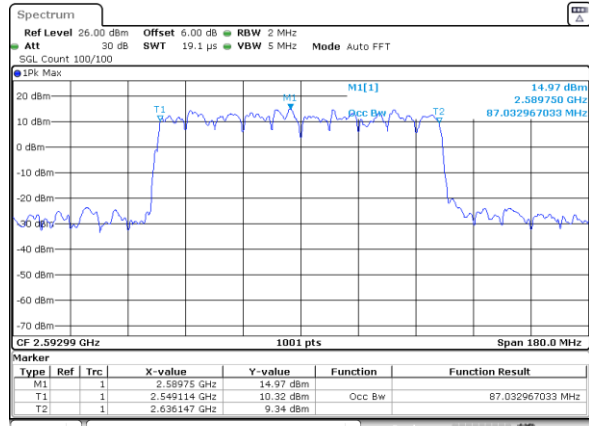


64QAM



Date: 10\_JUN,2022 13:27:56

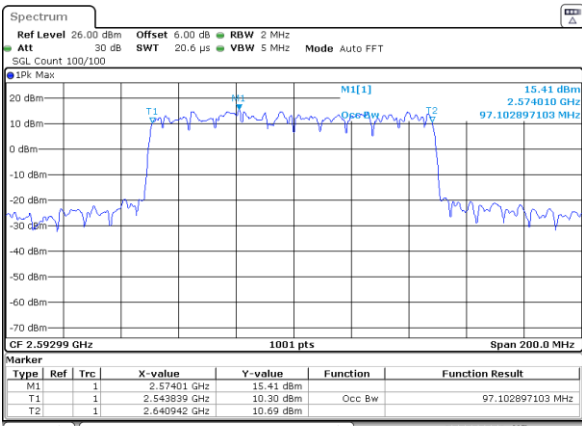
256QAM



Date: 10\_JUN,2022 13:28:34

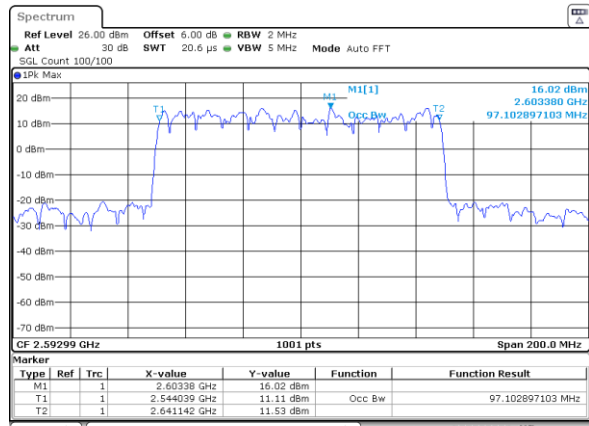
100MHz CP

QPSK



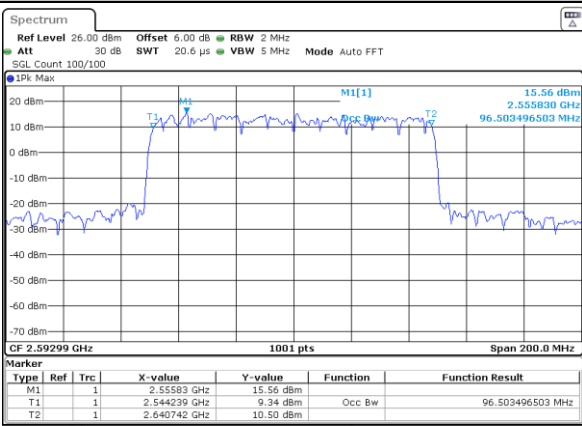
Date: 10\_JUN,2022 10:36:28

16QAM



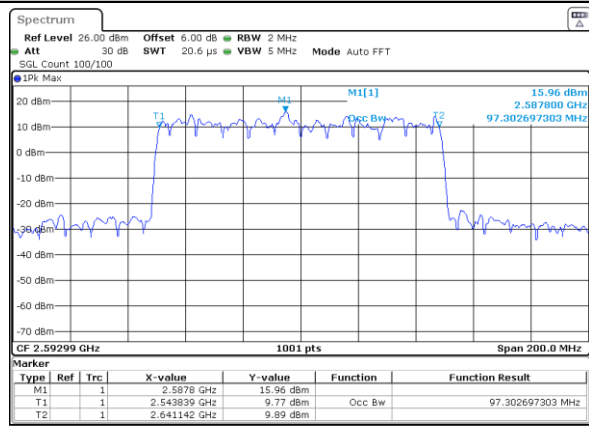
Date: 10\_JUN,2022 10:36:59

64QAM



Date: 10\_JUN,2022 10:37:43

256QAM



Date: 10\_JUN,2022 10:39:28

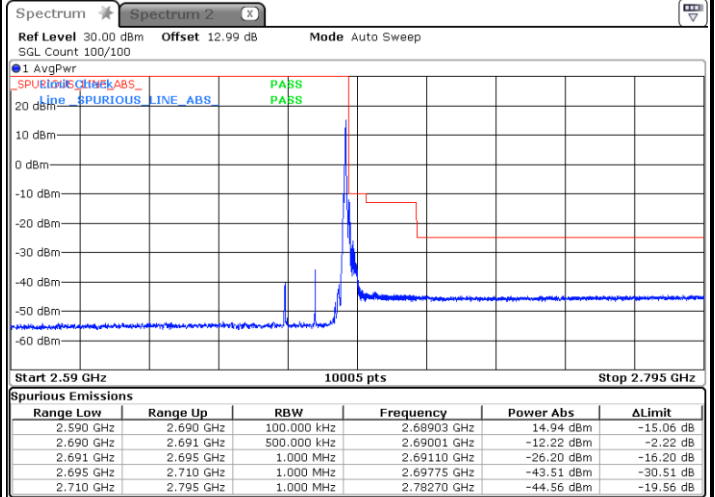
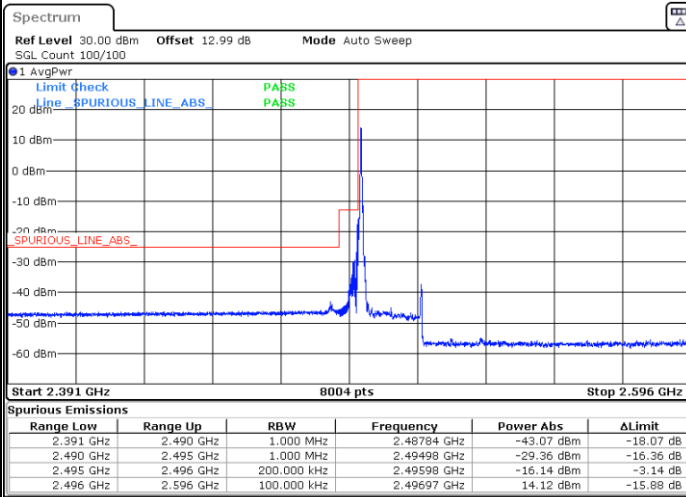


# Conducted Band Edge

## FR1 n41 / 20MHz / CP OFDM / PI/2 BPSK

### Lowest Band Edge / 1RB0

### Highest Band Edge / 1RBmax

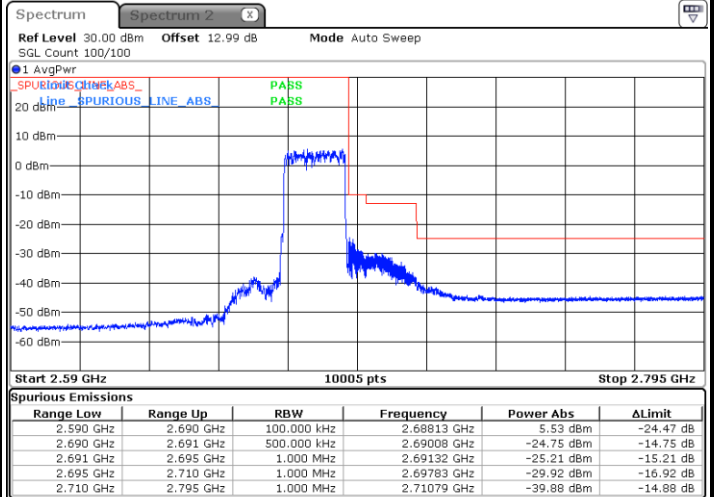
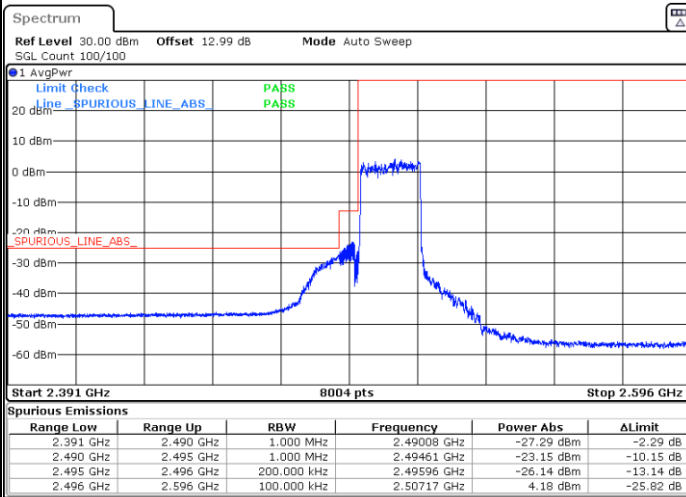


Date: 10.JUN.2022 15:02:11

Date: 12.JUL.2022 02:28:53

### Lowest Band Edge / Full RB

### Highest Band Edge / Full RB



Date: 10.JUN.2022 15:02:47

Date: 12.JUL.2022 02:29:25