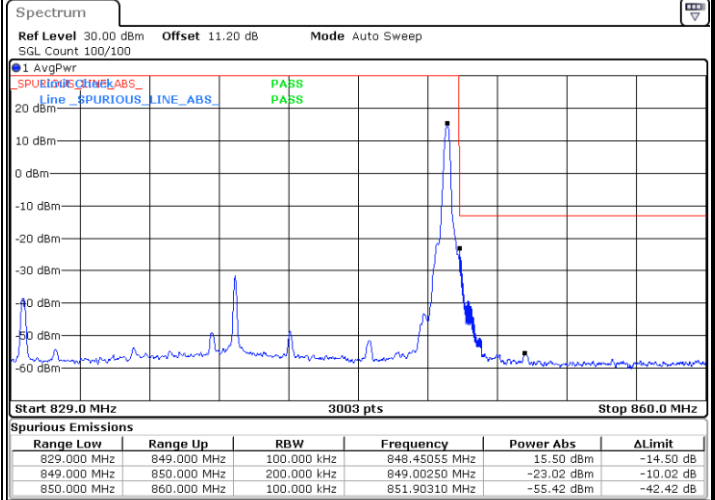
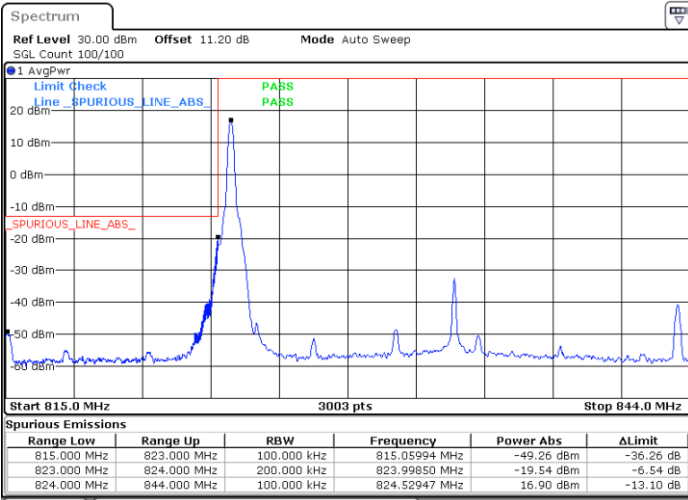




FR1 n5 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

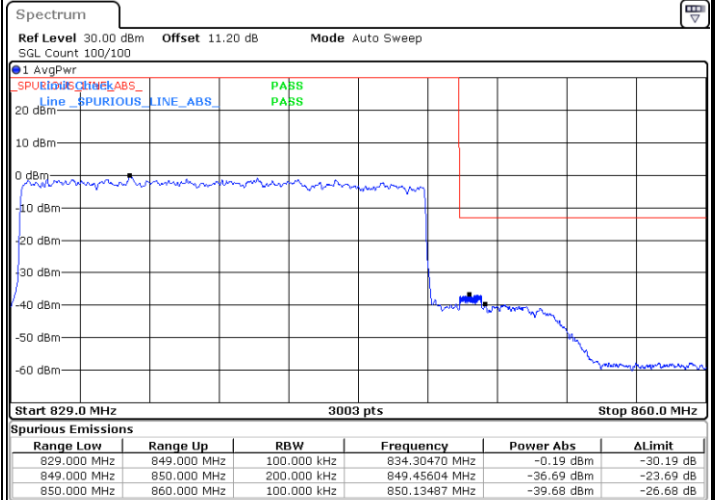
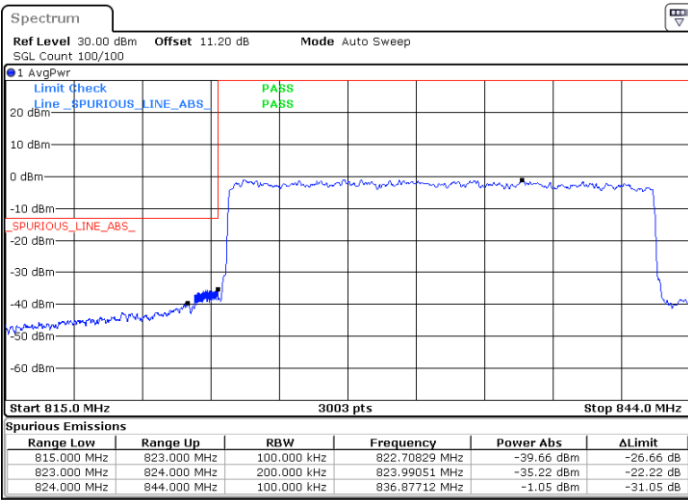


Date: 31.MAR.2021 01:06:50

Date: 31.MAR.2021 01:11:49

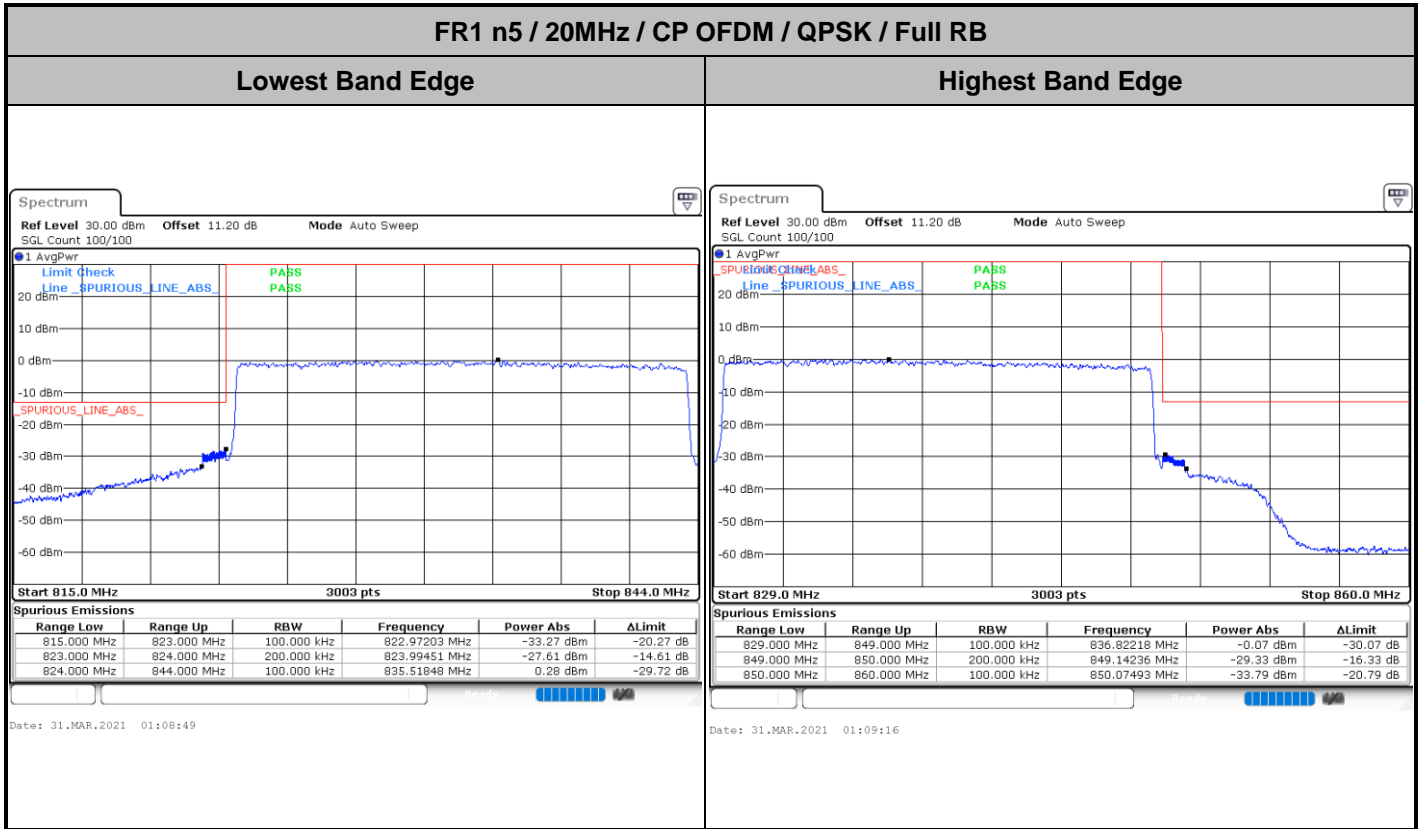
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAR.2021 01:07:07

Date: 31.MAR.2021 01:12:11

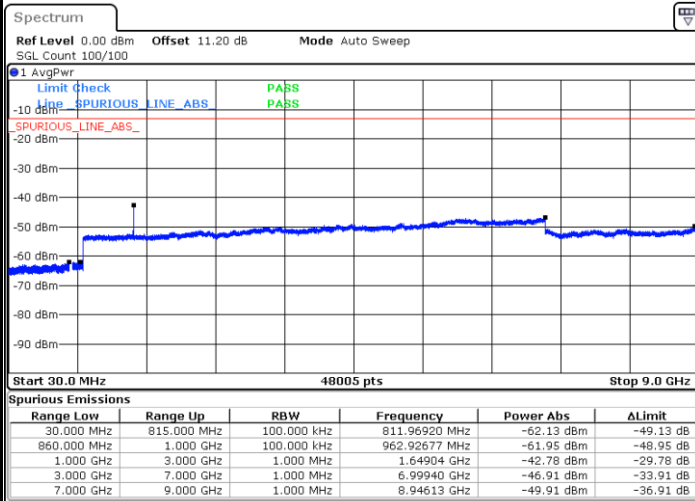




Conducted Spurious Emission

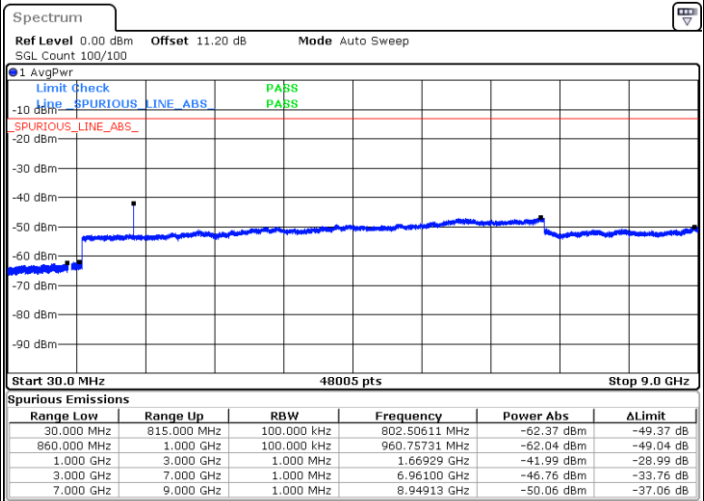
FR1 n5 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel



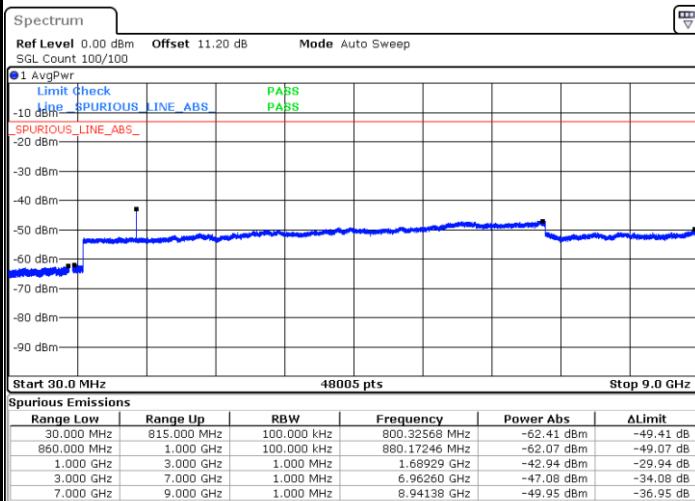
Date: 31.MAR.2021 01:14:55

Middle Channel



Date: 31.MAR.2021 01:16:03

Highest Channel



Date: 31.MAR.2021 01:16:43



Frequency Stability

Test Conditions		FR1 n5 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0102	PASS
40	Normal Voltage	0.0141	
30	Normal Voltage	0.0128	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0150	
0	Normal Voltage	0.0123	
-10	Normal Voltage	0.0113	
-20	Normal Voltage	0.0156	
-30	Normal Voltage	0.0110	
20	Maximum Voltage	0.0113	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0105	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n41

<Sub>

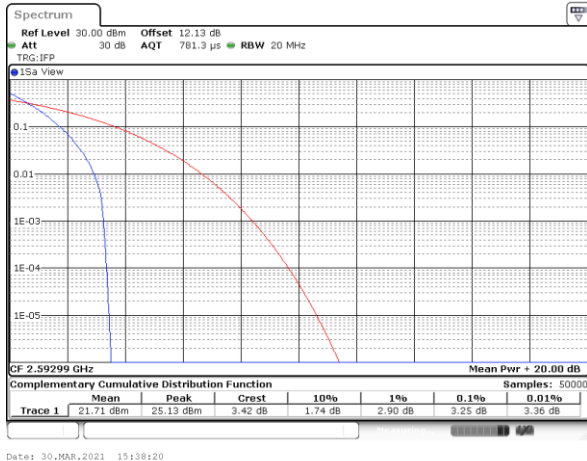
Peak-to-Average Ratio

Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.25	4.26	5.42	5.91	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.32				PASS



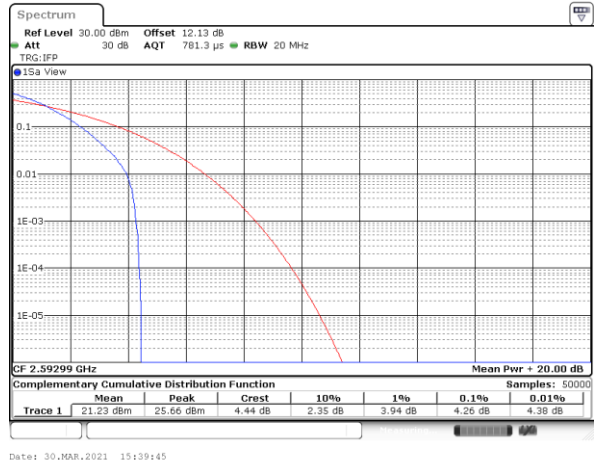
FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



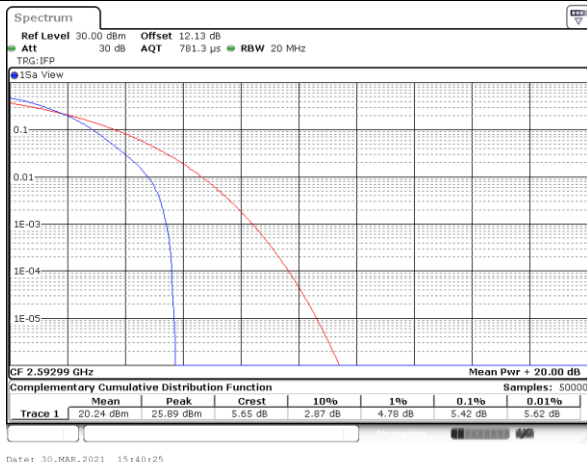
Date: 30.MAR.2021 15:38:20

QPSK



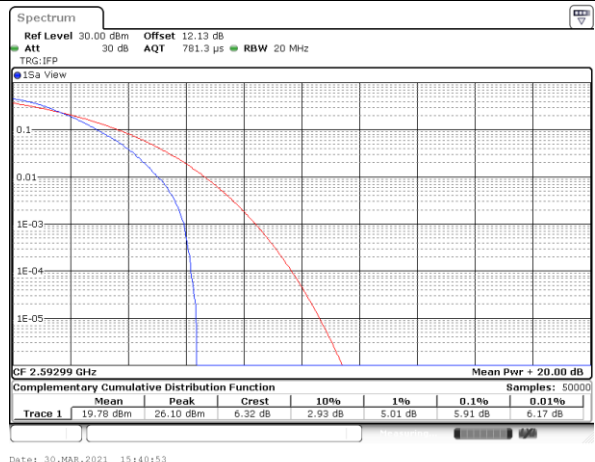
Date: 30.MAR.2021 15:39:45

16QAM



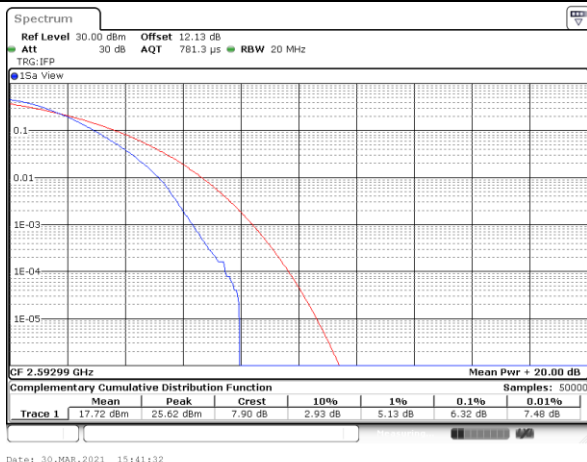
Date: 30.MAR.2021 15:40:25

64QAM



Date: 30.MAR.2021 15:40:53

256QAM



Date: 30.MAR.2021 15:41:32



26dB Bandwidth

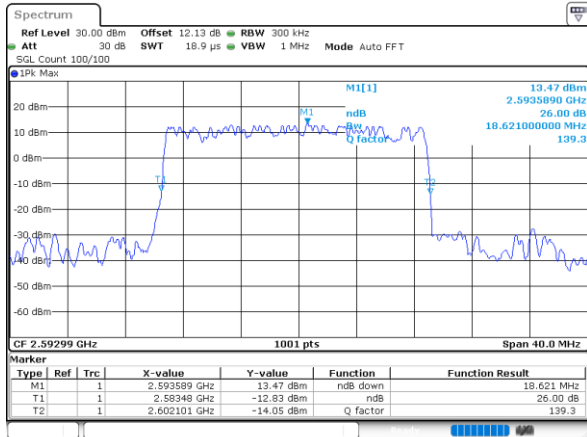
Mode	FR1 n41 : 26dB BW(MHz) / DFT-S OFDM							
BW	20MHz	30MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	18.62	27.75	38.20	48.05	60.42	79.92	88.65	99.50

Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM							
BW	20MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	19.10	19.38	29.01	28.71	40.12	40.28	49.85	49.85
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	18.98	19.18	29.13	29.01	40.36	40.20	49.75	49.65
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	60.42	60.30	79.92	79.92	90.27	90.27	100.30	100.70
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	60.42	60.42	80.08	79.92	90.45	90.45	100.50	100.30



FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

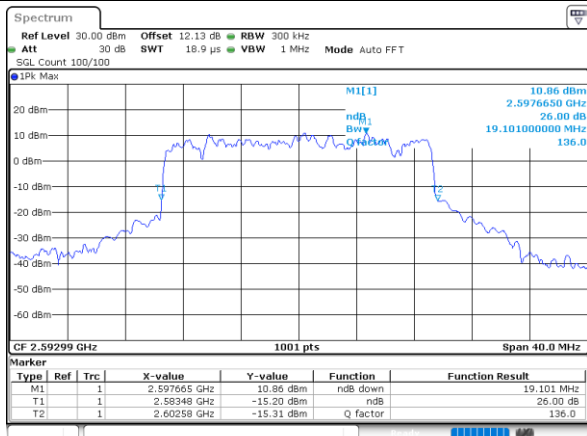
PI/2 BPSK



Date: 30_MAR_2021 15:37:22

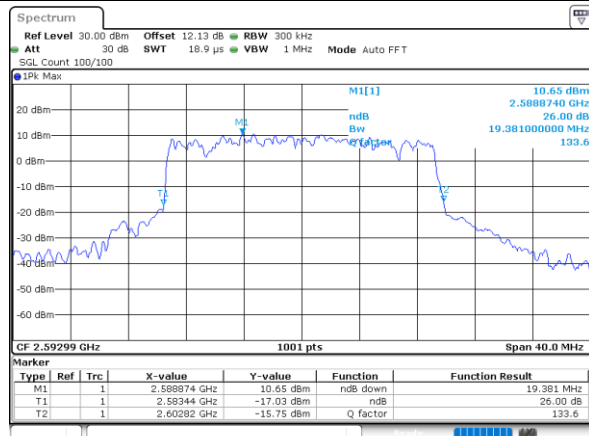
FR1 n41 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



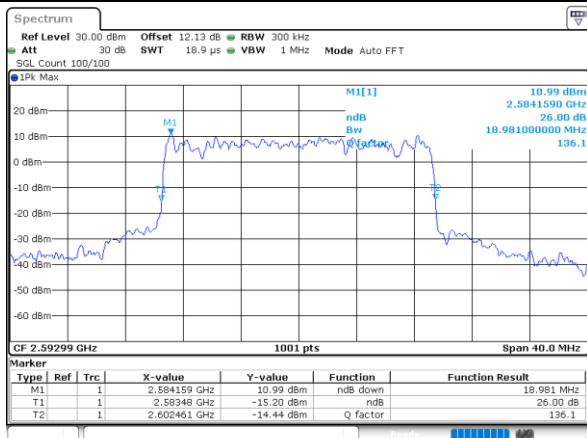
Date: 30_MAR_2021 15:36:00

16QAM



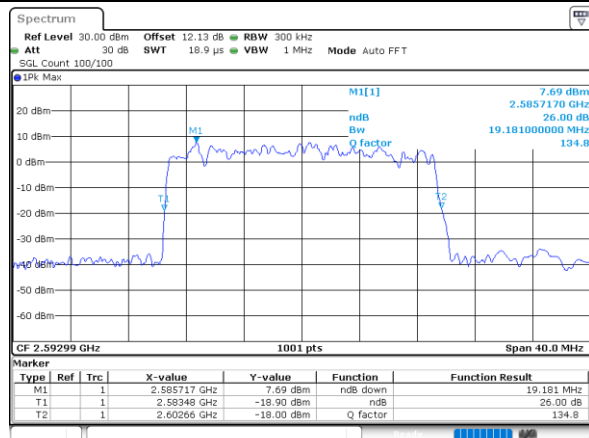
Date: 30_MAR_2021 15:36:14

64QAM



Date: 30_MAR_2021 15:36:29

256QAM

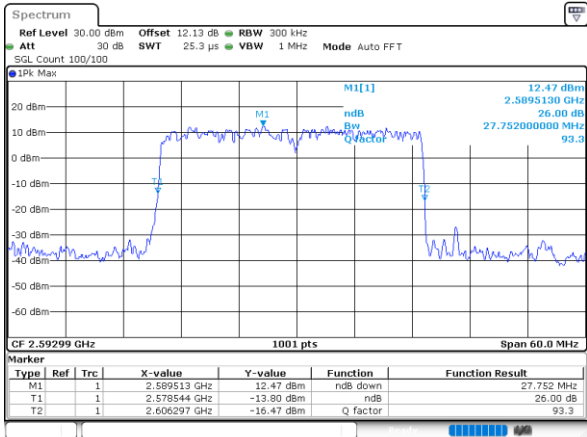


Date: 30_MAR_2021 15:36:58



FR1 n41 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

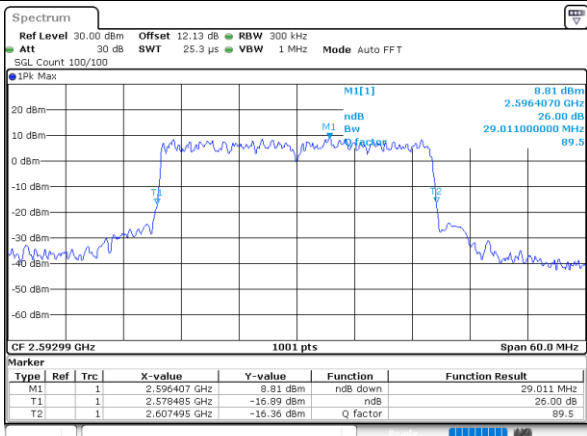
PI/2 BPSK



Date: 30_MAR_2021 16:02:16

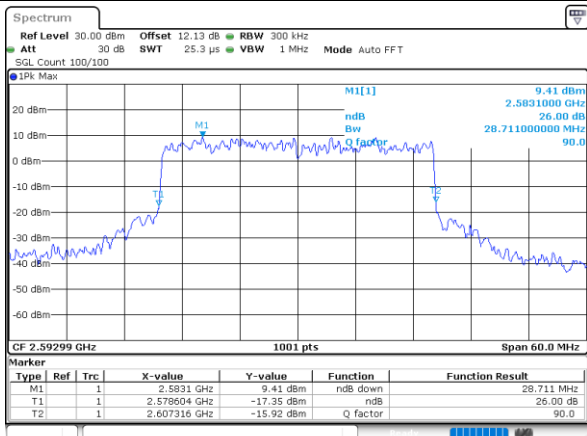
FR1 n41 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



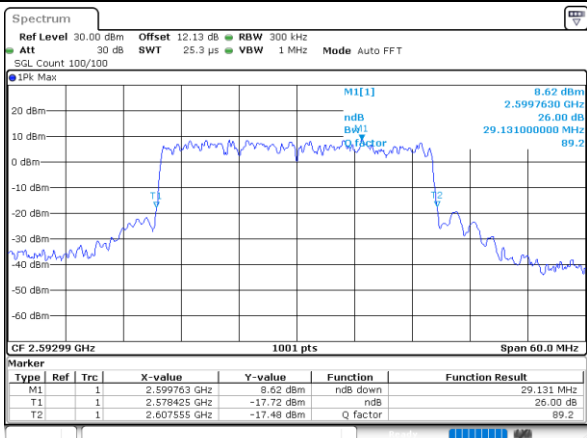
Date: 30_MAR_2021 16:02:38

16QAM



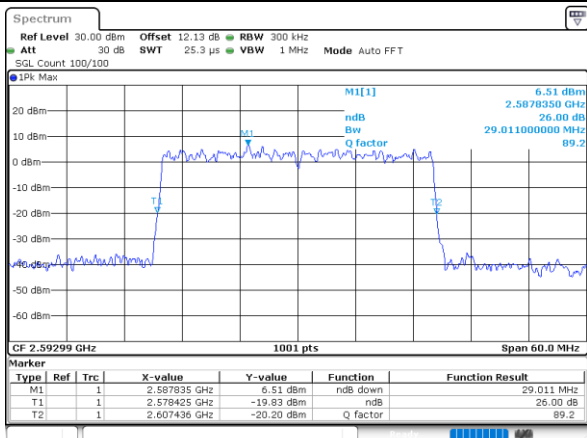
Date: 30_MAR_2021 16:02:53

64QAM



Date: 30_MAR_2021 16:03:07

256QAM

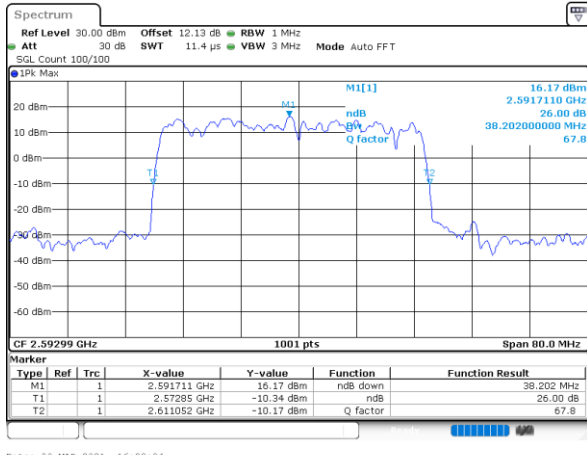


Date: 30_MAR_2021 16:03:28



FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

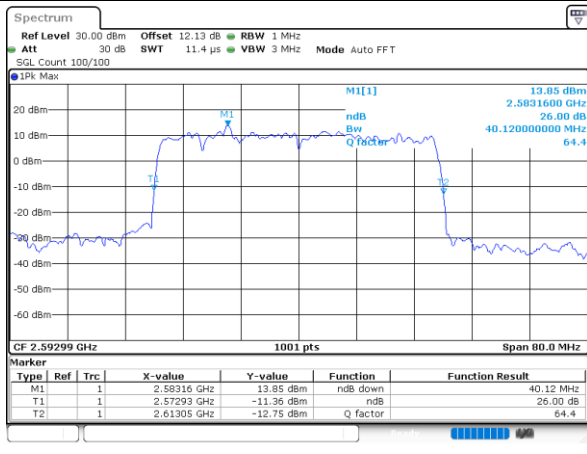
PI/2 BPSK



Date: 30_MAR_2021 16:28:34

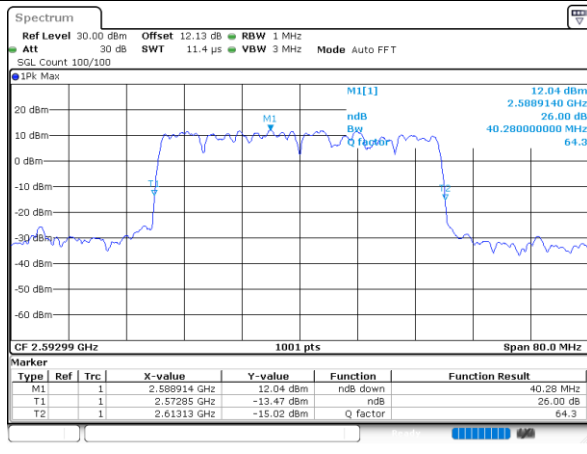
FR1 n41 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



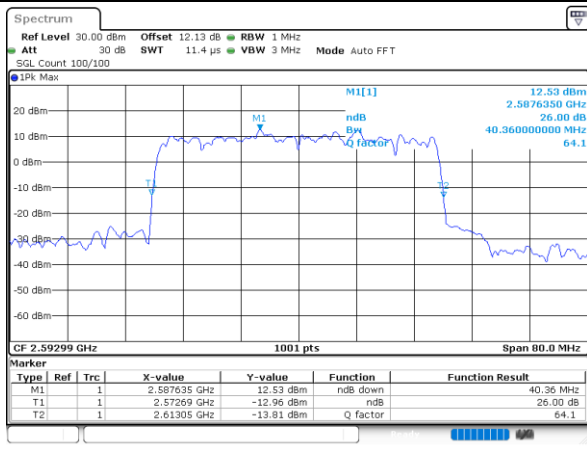
Date: 30_MAR_2021 16:27:16

16QAM



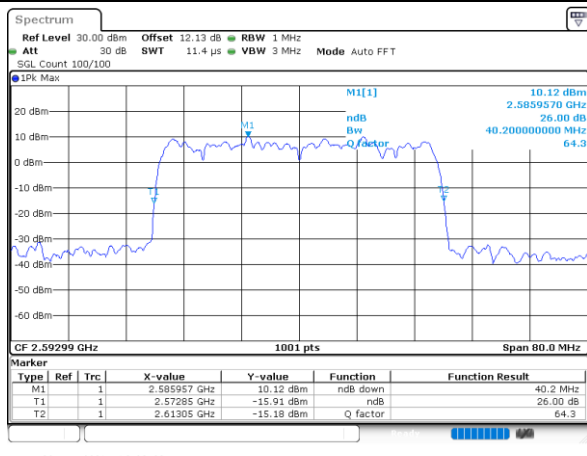
Date: 30_MAR_2021 16:12:130

64QAM



Date: 30_MAR_2021 16:27:47

256QAM

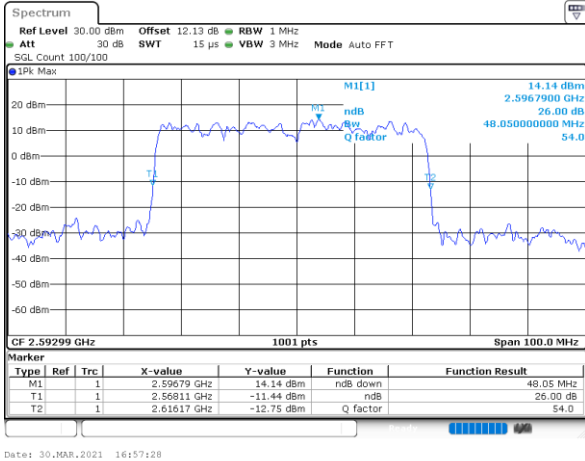


Date: 30_MAR_2021 16:128:103



FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

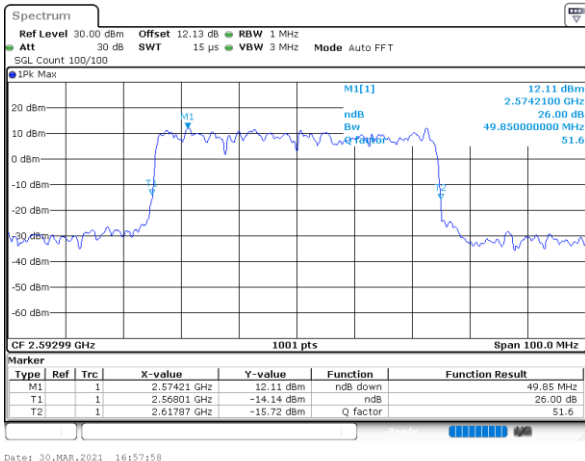
PI/2 BPSK



Date: 30_MAR_2021 16:57:28

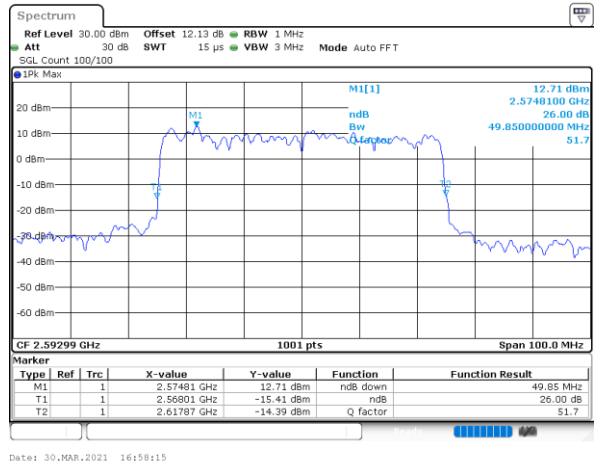
FR1 n41 / 50MHz / CP OFDM / Middle Channel / Full RB

QPSK



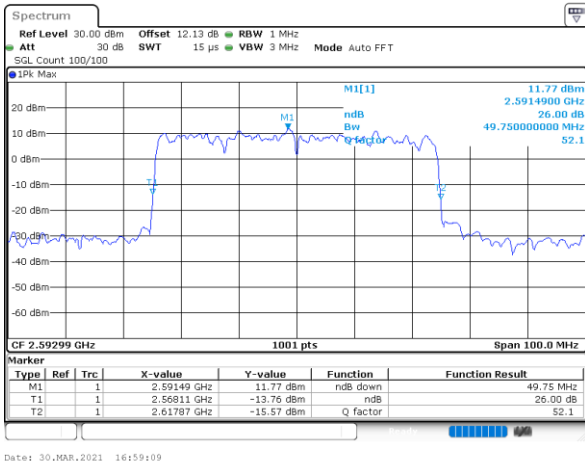
Date: 30_MAR_2021 16:57:58

16QAM



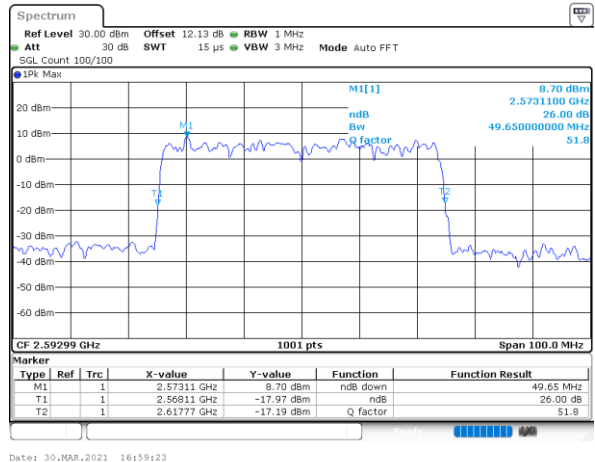
Date: 30_MAR_2021 16:58:15

64QAM



Date: 30_MAR_2021 16:59:09

256QAM

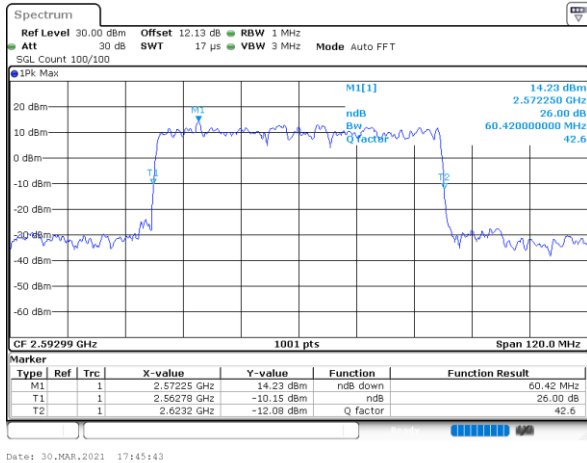


Date: 30_MAR_2021 16:59:23



FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

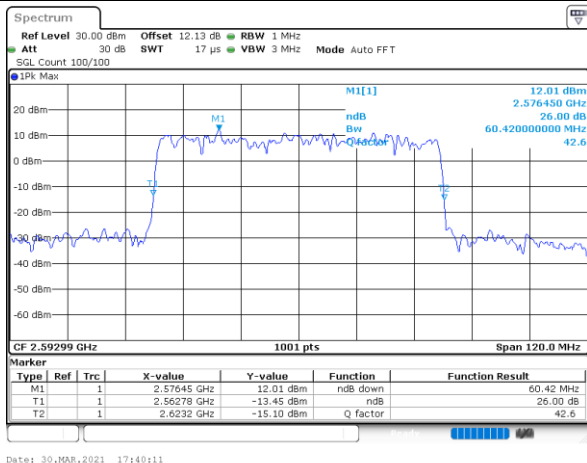
PI/2 BPSK



Date: 30_MAR_2021 17:45:43

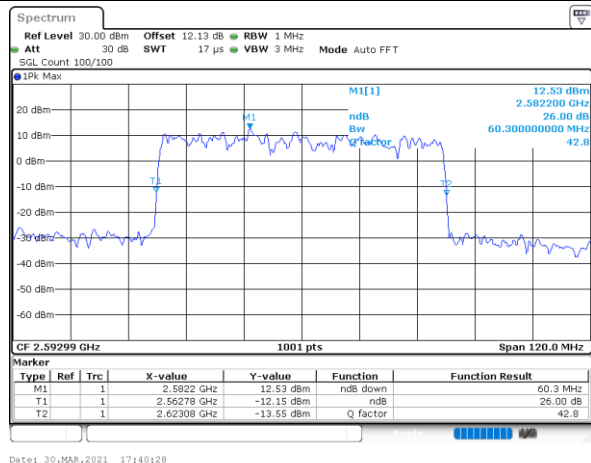
FR1 n41 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK



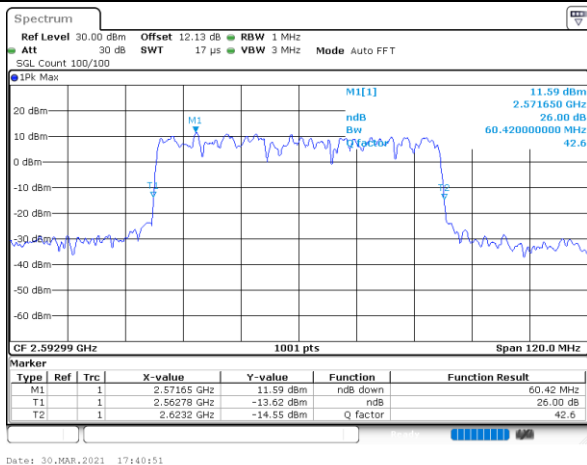
Date: 30_MAR_2021 17:40:11

16QAM



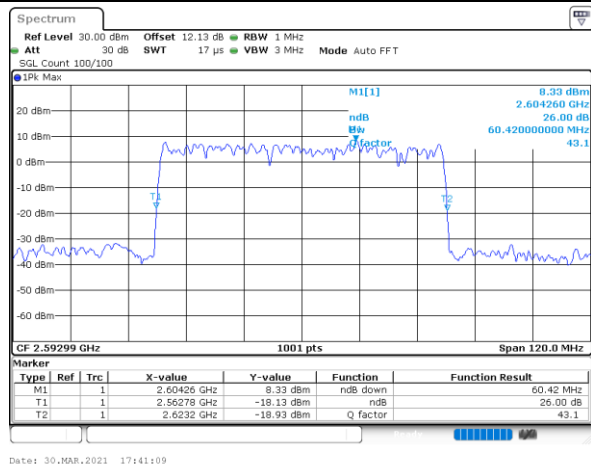
Date: 30_MAR_2021 17:40:28

64QAM



Date: 30_MAR_2021 17:40:51

256QAM

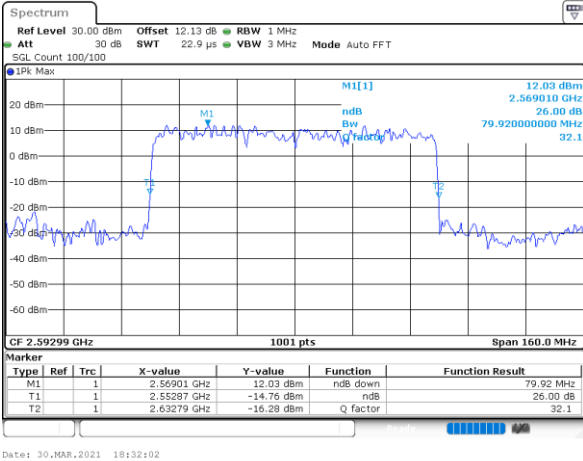


Date: 30_MAR_2021 17:41:09



FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

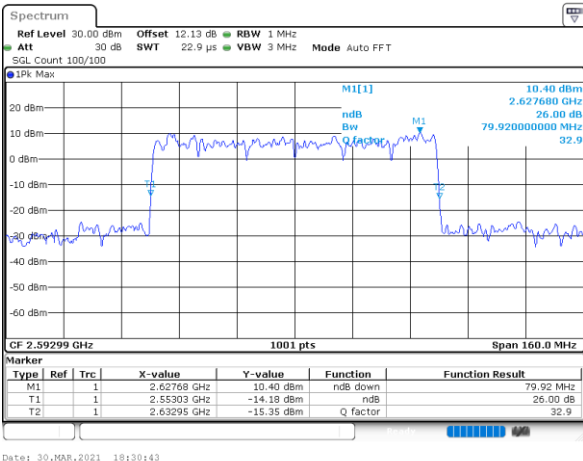
PI/2 BPSK



Date: 30_MAR_2021 18:32:02

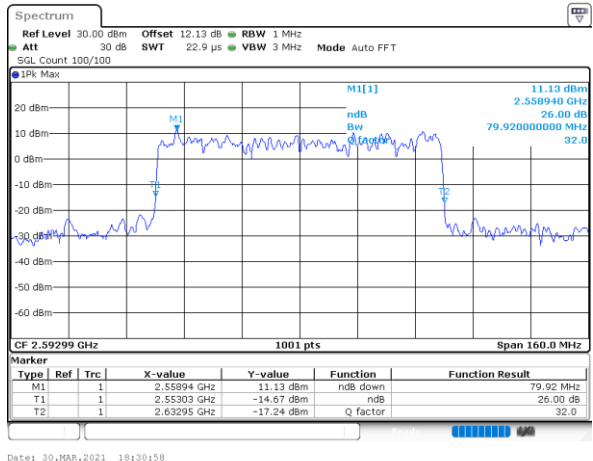
FR1 n41 / 80MHz / CP OFDM / Middle Channel / Full RB

QPSK



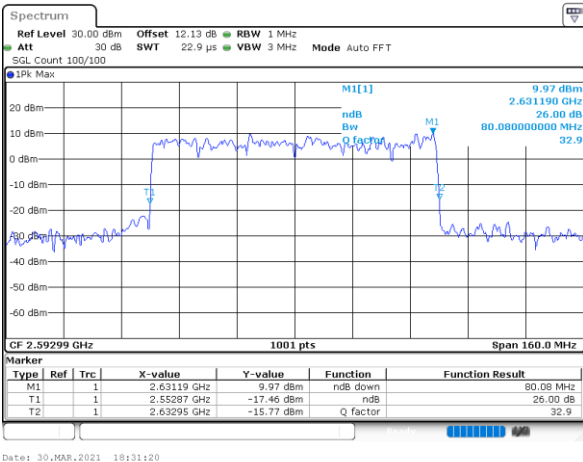
Date: 30_MAR_2021 18:30:43

16QAM



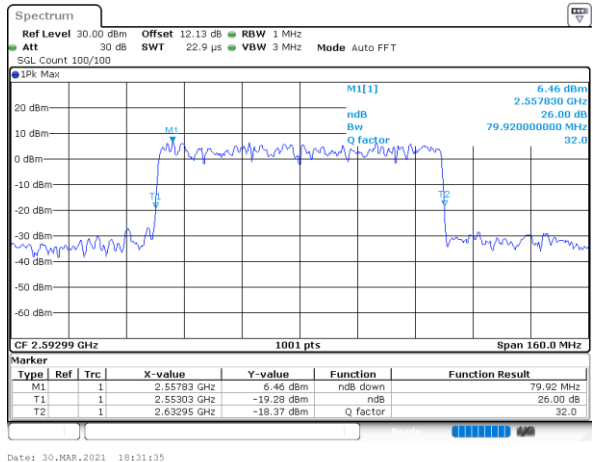
Date: 30_MAR_2021 18:30:58

64QAM



Date: 30_MAR_2021 18:31:20

256QAM

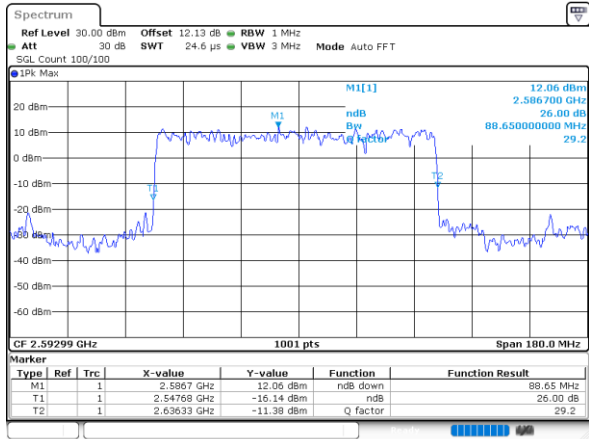


Date: 30_MAR_2021 18:31:35



FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

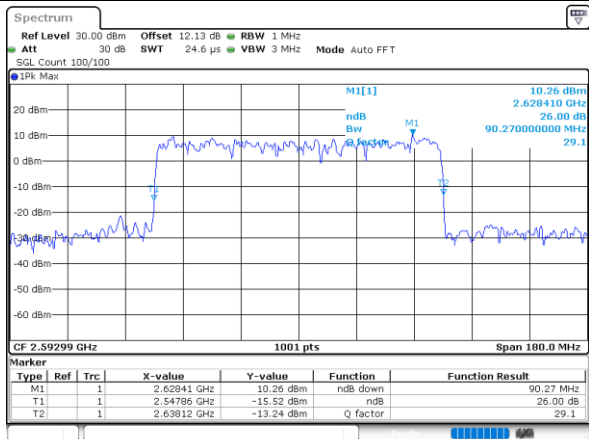
PI/2 BPSK



Date: 30_MAR_2021 19:50:54

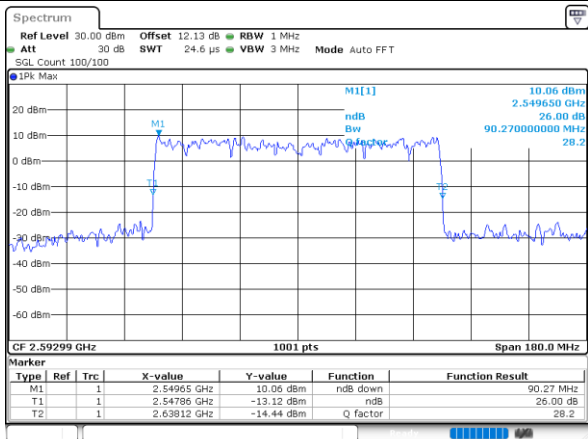
FR1 n41 / 90MHz / CP OFDM / Middle Channel / Full RB

QPSK



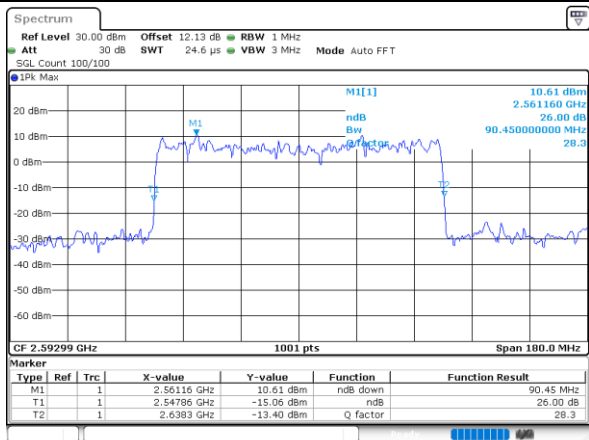
Date: 30_MAR_2021 19:52:03

16QAM



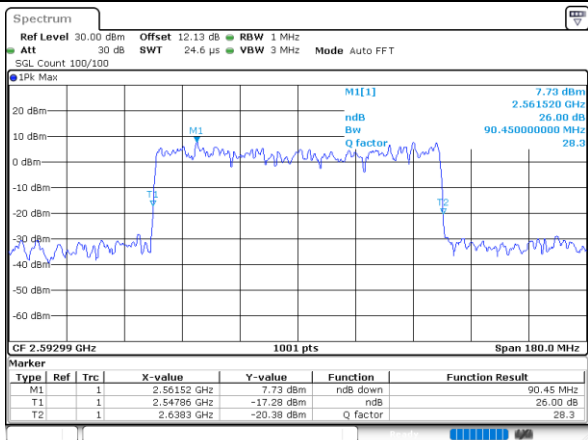
Date: 30_MAR_2021 19:52:24

64QAM



Date: 30_MAR_2021 19:52:48

256QAM

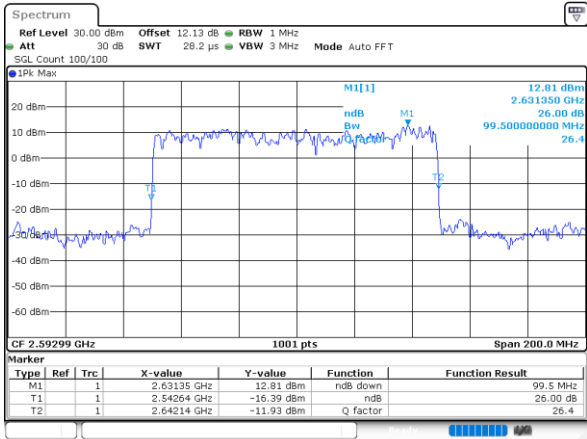


Date: 30_MAR_2021 19:54:18



FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

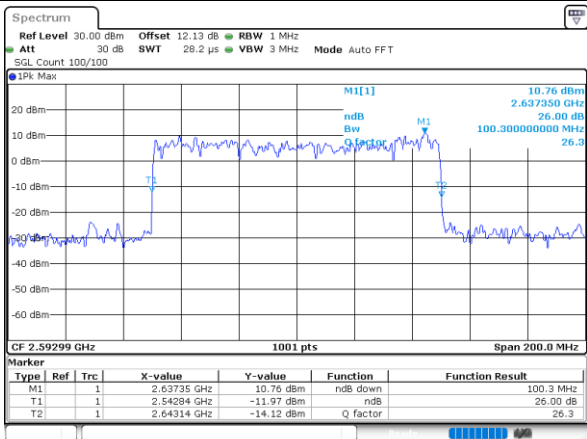
PI/2 BPSK



Date: 30_MAR_2021 19:56:43

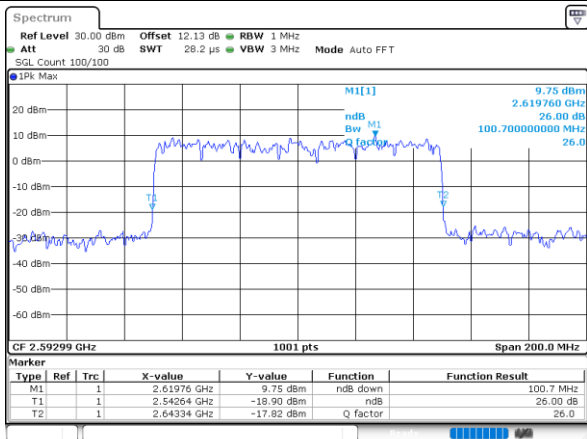
FR1 n41 / 100MHz / CP OFDM / Middle Channel / Full RB

QPSK



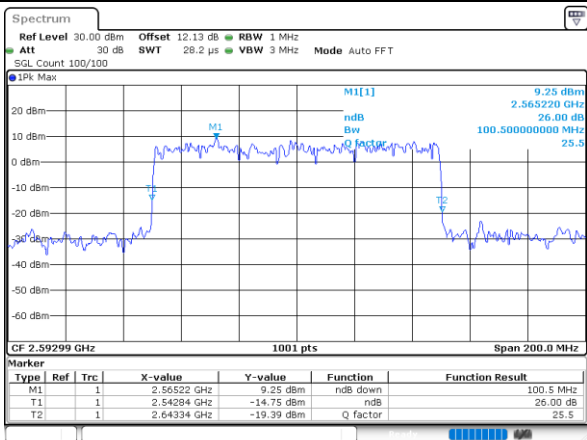
Date: 30_MAR_2021 19:56:12

16QAM



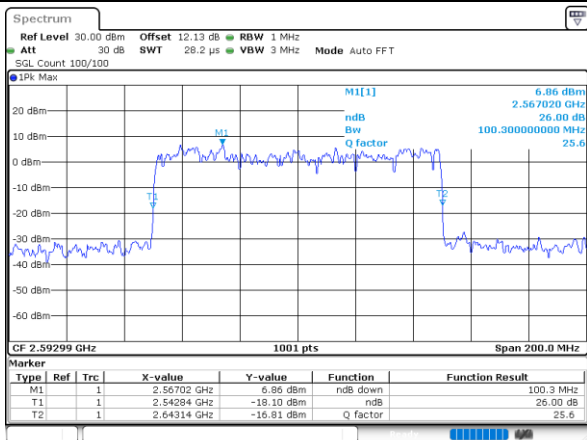
Date: 30_MAR_2021 19:55:48

64QAM



Date: 30_MAR_2021 19:55:26

256QAM



Date: 30_MAR_2021 19:55:05



Occupied Bandwidth

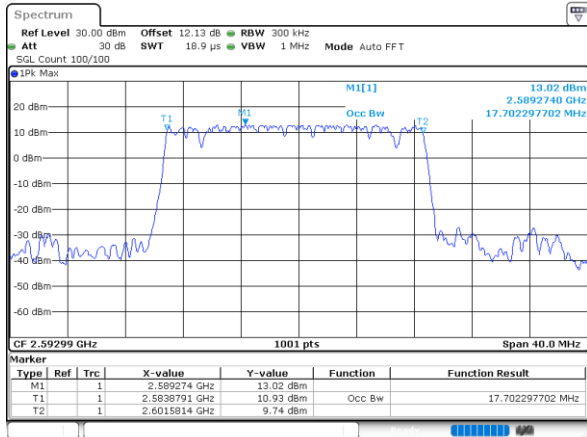
Mode	FR1 n41 : OB BW(MHz) / DFT-S OFDM							
BW	20MHz	30MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	17.70	26.73	35.88	46.05	57.78	77.36	85.95	96.50

Mode	FR1 n41 : OB BW(MHz) / CP OFDM							
BW	20MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.14	18.26	27.81	27.69	37.80	38.12	47.85	47.75
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	18.26	18.14	27.81	27.69	37.96	38.20	47.35	47.75
BW	60MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	57.66	58.14	77.52	77.84	87.75	87.75	97.90	97.50
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	57.90	57.78	77.52	77.84	87.39	87.93	97.90	97.90



FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

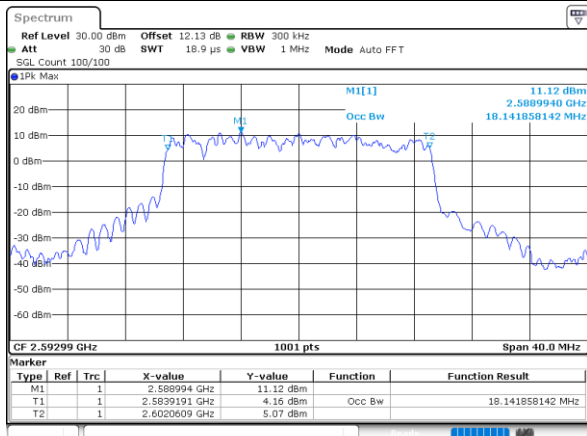
PI/2 BPSK



Date: 30_MAR_2021 15:37:16

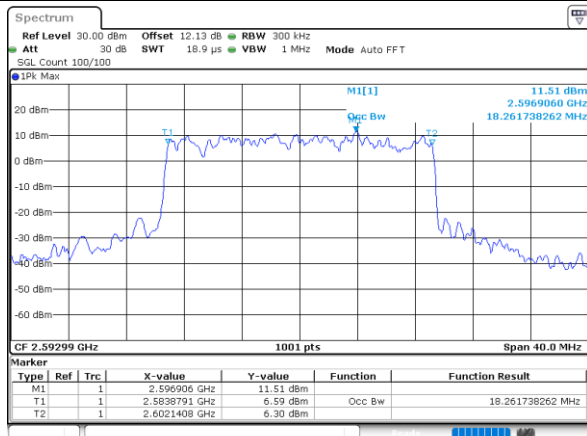
FR1 n41 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



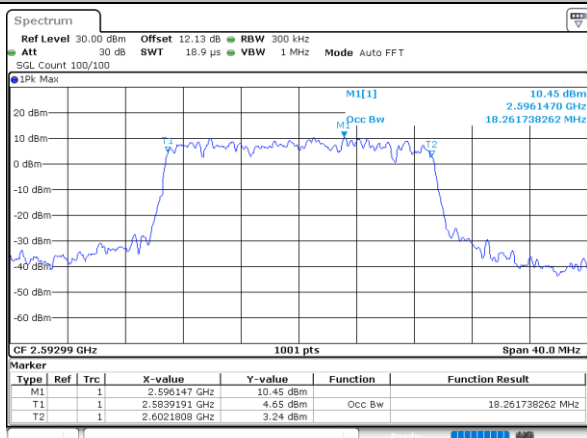
Date: 30_MAR_2021 15:35:53

16QAM



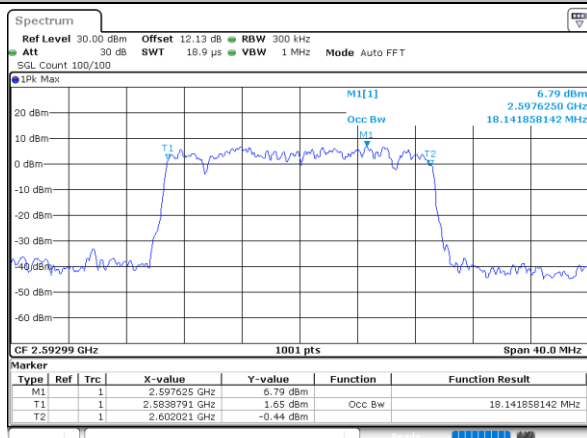
Date: 30_MAR_2021 15:36:08

64QAM



Date: 30_MAR_2021 15:36:23

256QAM

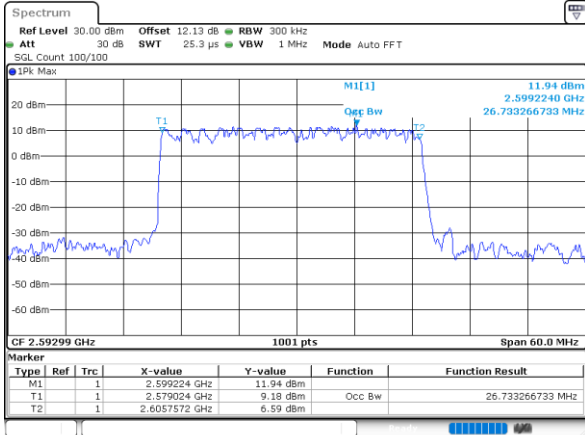


Date: 30_MAR_2021 15:36:44



FR1 n41 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

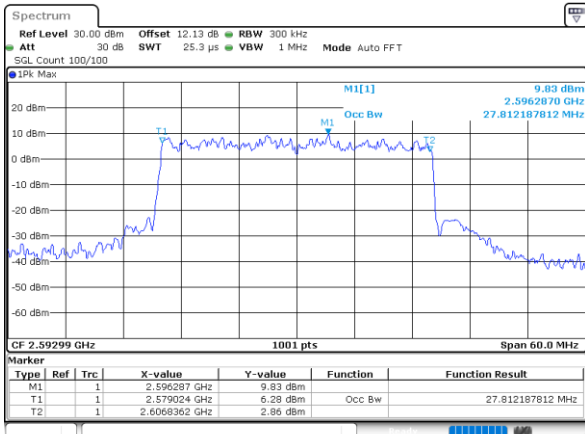
PI/2 BPSK



Date: 30_MAR_2021 16:02:07

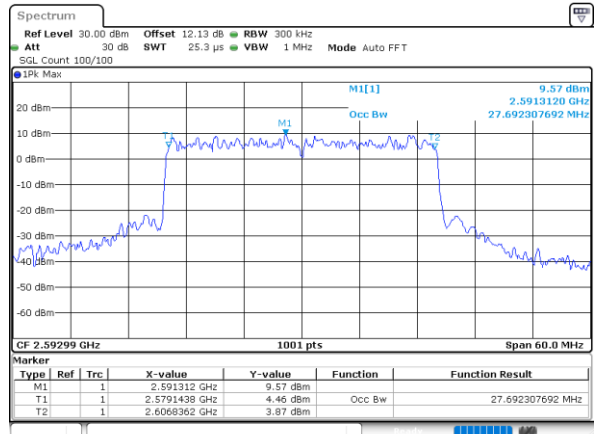
FR1 n41 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



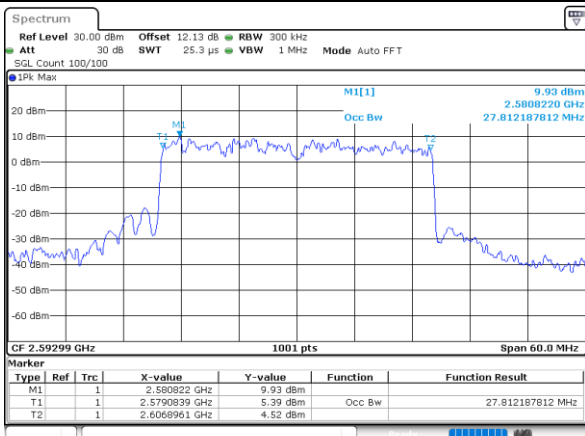
Date: 30_MAR_2021 16:02:33

16QAM



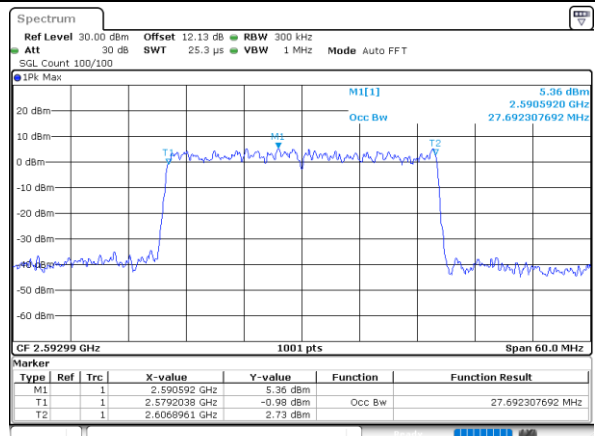
Date: 30_MAR_2021 16:02:46

64QAM



Date: 30_MAR_2021 16:03:01

256QAM

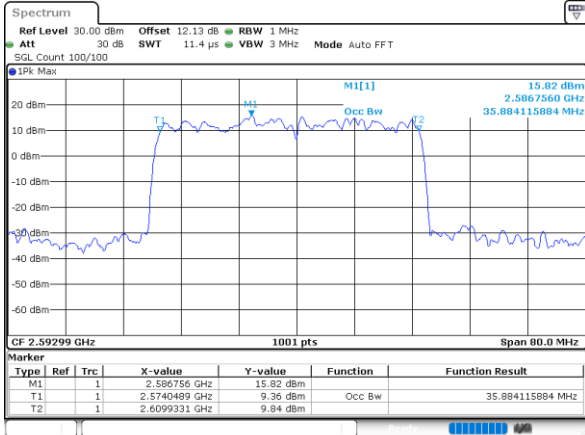


Date: 30_MAR_2021 16:03:20



FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

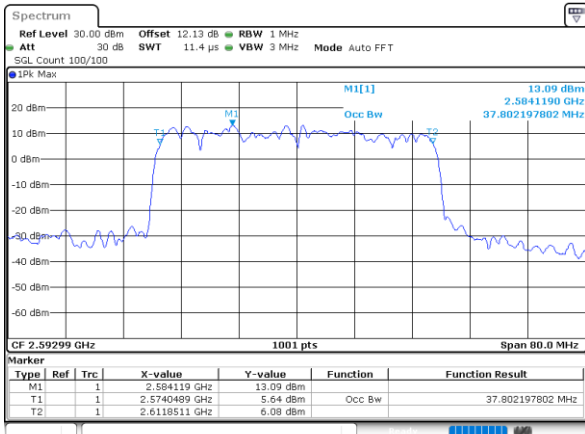
PI/2 BPSK



Date: 30_MAR_2021 16:28:29

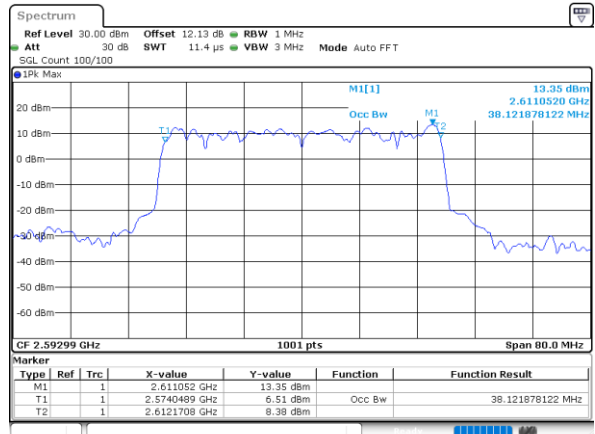
FR1 n41 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



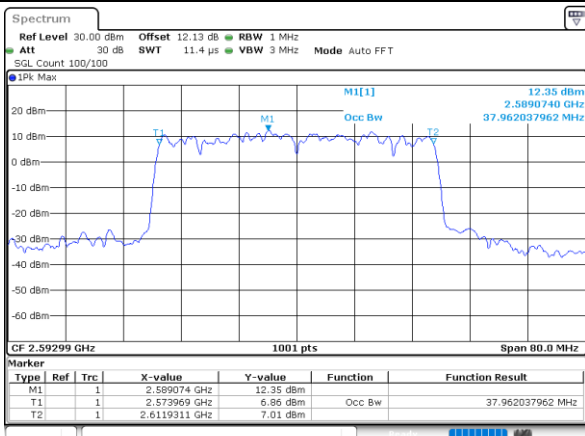
Date: 30_MAR_2021 16:27:10

16QAM



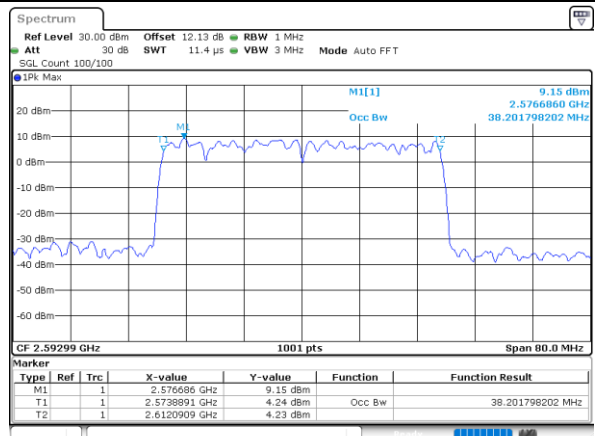
Date: 30_MAR_2021 16:12:124

64QAM



Date: 30_MAR_2021 16:27:38

256QAM

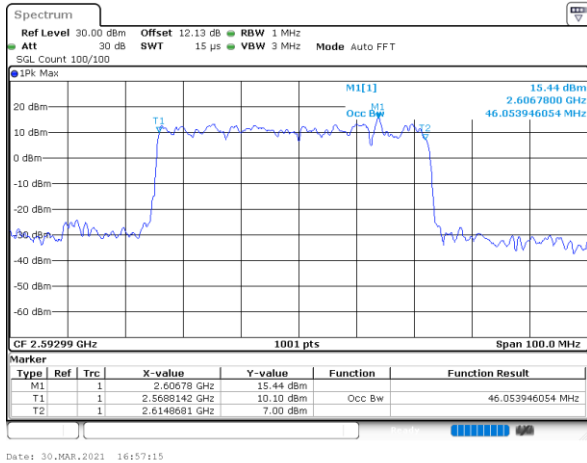


Date: 30_MAR_2021 16:12:157



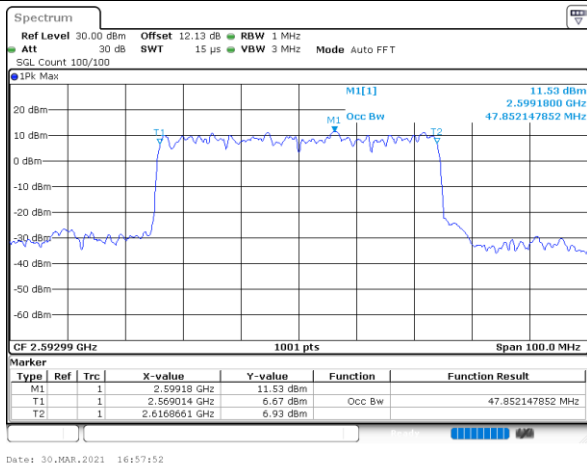
FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

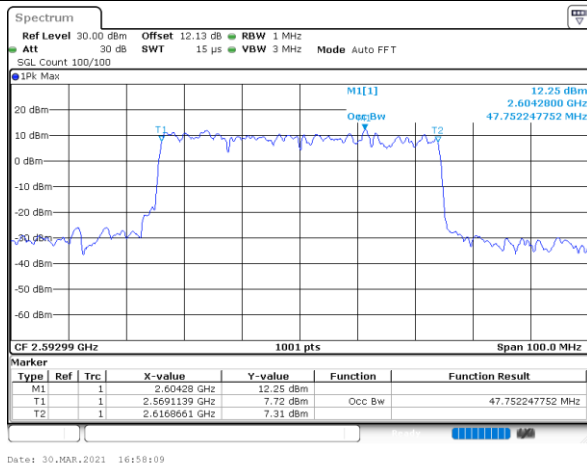


FR1 n41 / 50MHz / CP OFDM / Middle Channel / Full RB

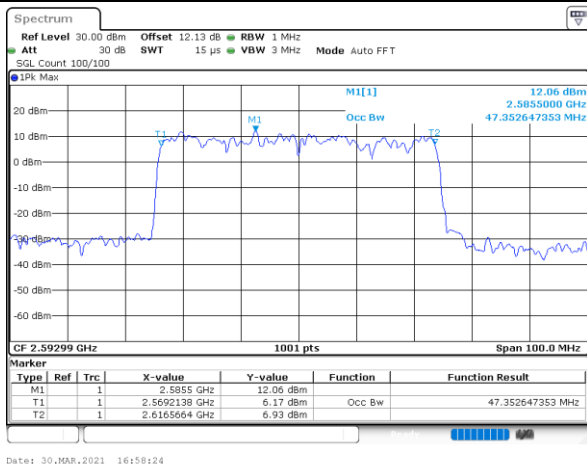
QPSK



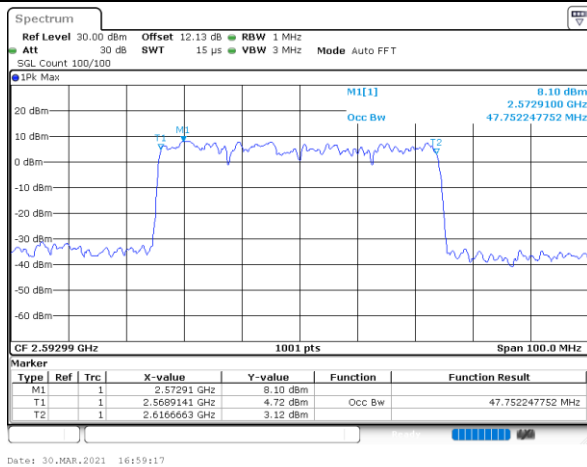
16QAM



64QAM



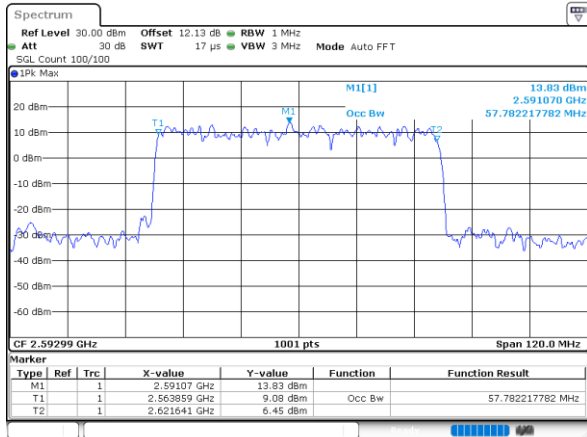
256QAM





FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

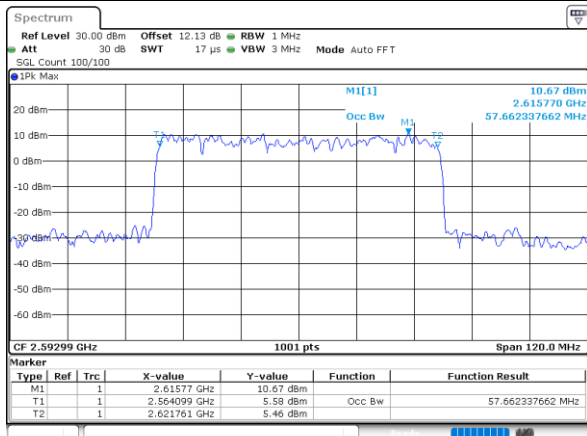
PI/2 BPSK



Date: 30_MAR_2021 17:45:34

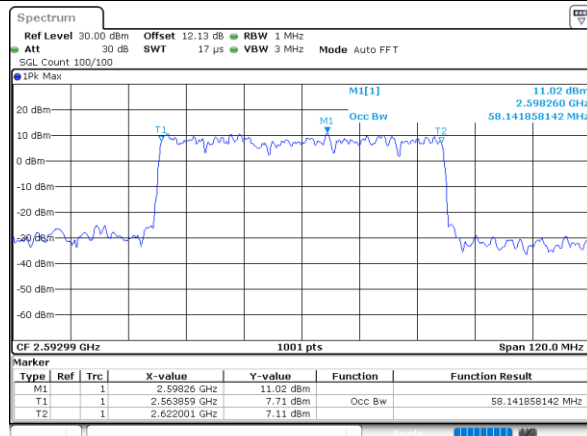
FR1 n41 / 60MHz / CP OFDM / Middle Channel / Full RB

QPSK



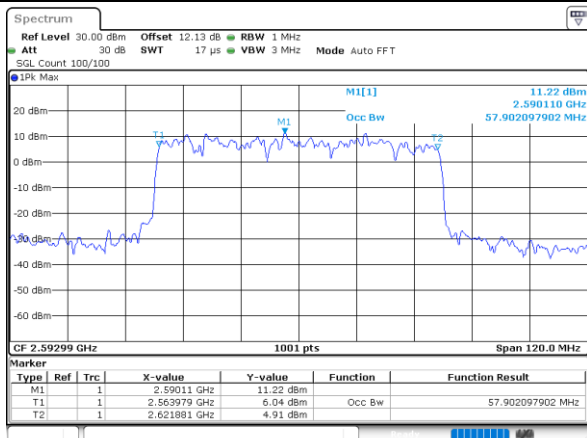
Date: 30_MAR_2021 17:40:05

16QAM



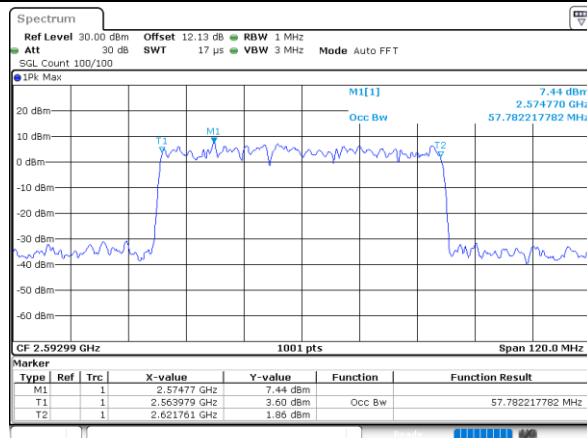
Date: 30_MAR_2021 17:40:20

64QAM



Date: 30_MAR_2021 17:40:43

256QAM

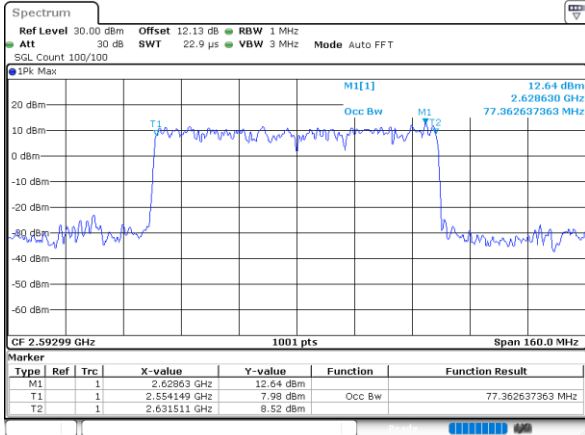


Date: 30_MAR_2021 17:41:01



FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

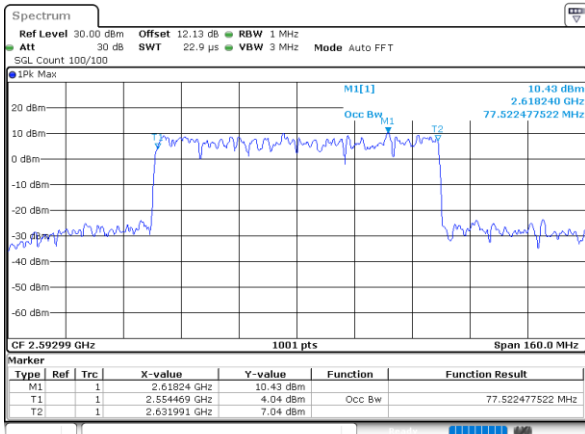
PI/2 BPSK



Date: 30_MAR_2021 18:31:55

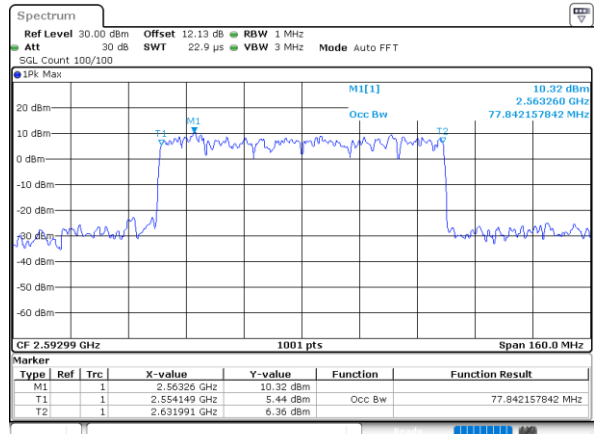
FR1 n41 / 80MHz / CP OFDM / Middle Channel / Full RB

QPSK



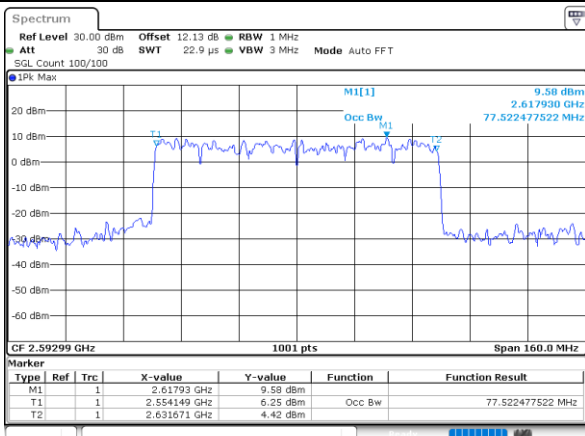
Date: 30_MAR_2021 18:30:36

16QAM



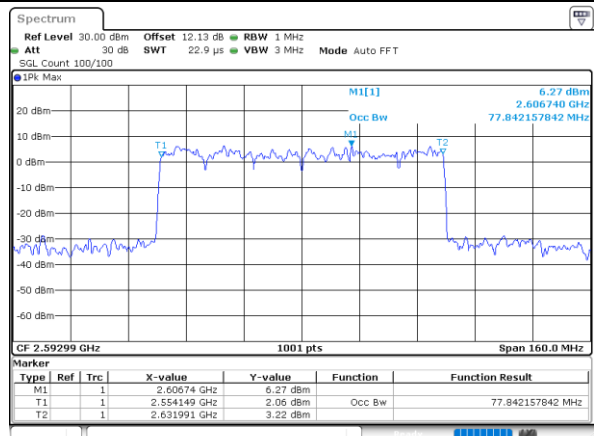
Date: 30_MAR_2021 18:30:51

64QAM



Date: 30_MAR_2021 18:31:14

256QAM

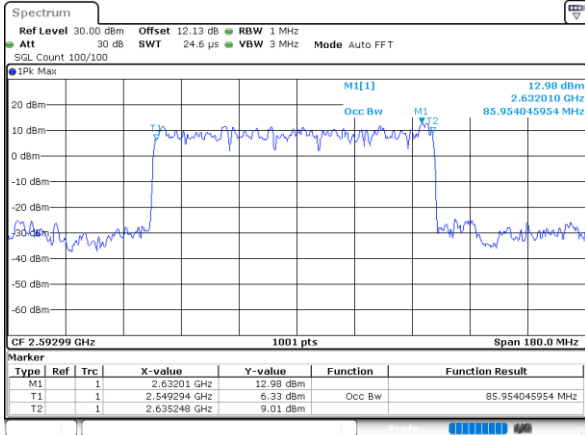


Date: 30_MAR_2021 18:31:29



FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

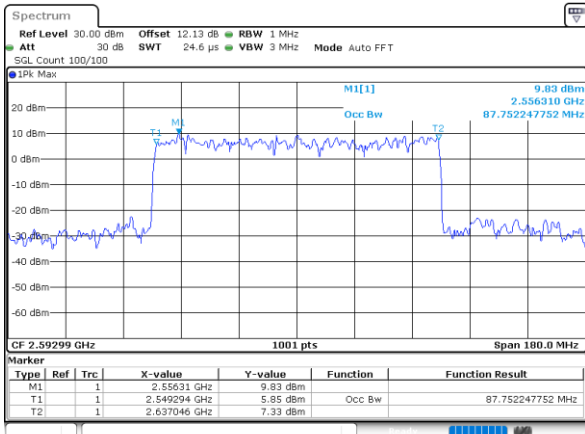
PI/2 BPSK



Date: 30.MAR.2021 19:50:46

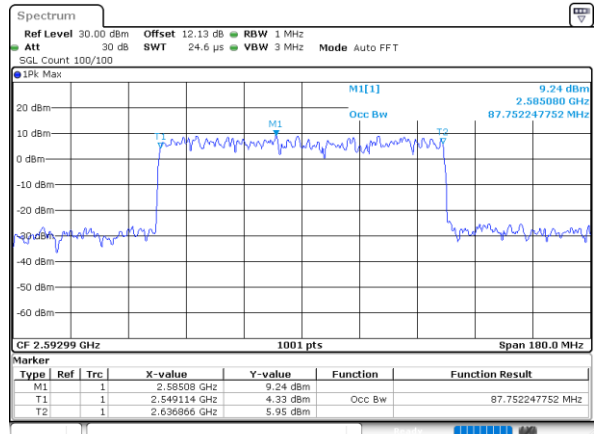
FR1 n41 / 90MHz / CP OFDM / Middle Channel / Full RB

QPSK



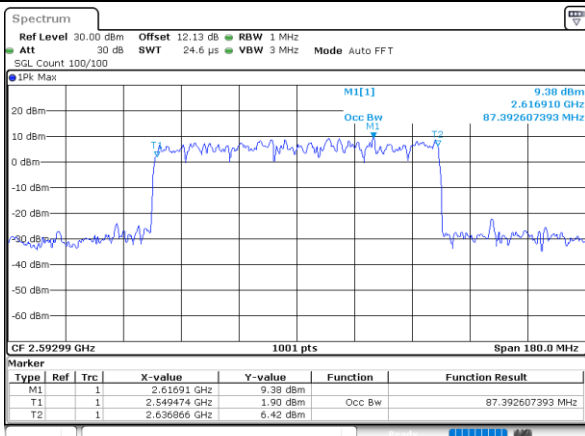
Date: 30.MAR.2021 19:51:15

16QAM



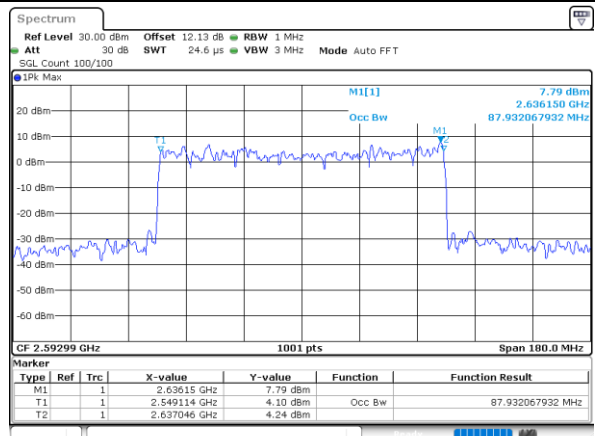
Date: 30.MAR.2021 19:52:16

64QAM



Date: 30.MAR.2021 19:52:40

256QAM

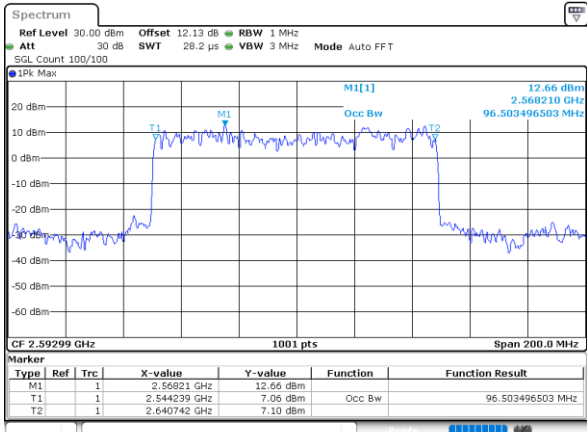


Date: 30.MAR.2021 19:53:07



FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

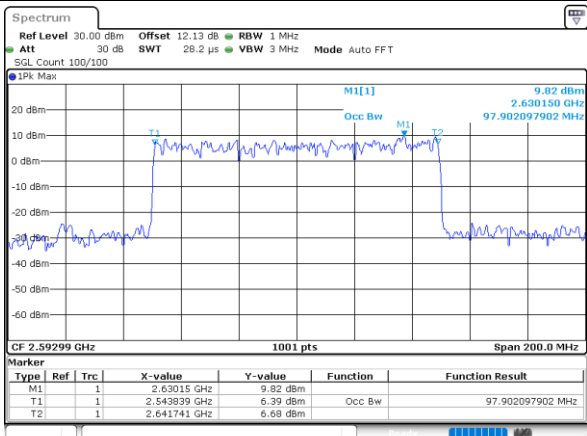
PI/2 BPSK



Date: 30.MAR.2021 19:56:36

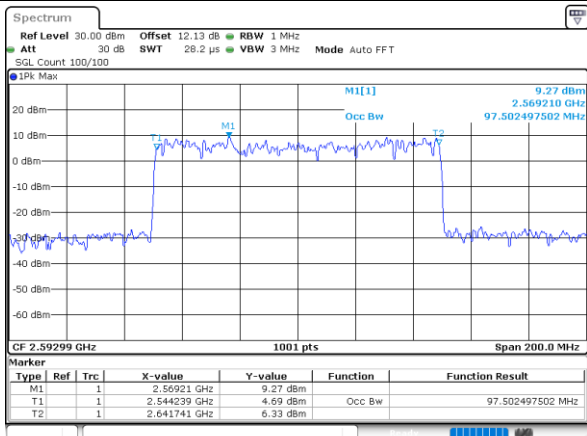
FR1 n41 / 100MHz / CP OFDM / Middle Channel / Full RB

QPSK



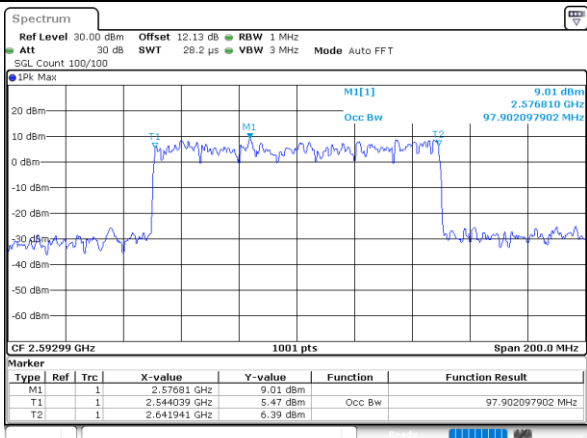
Date: 30.MAR.2021 19:56:05

16QAM



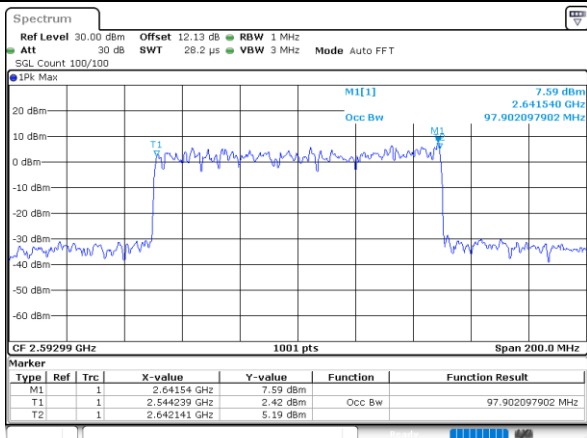
Date: 30.MAR.2021 19:55:41

64QAM



Date: 30.MAR.2021 19:55:19

256QAM



Date: 30.MAR.2021 19:54:58

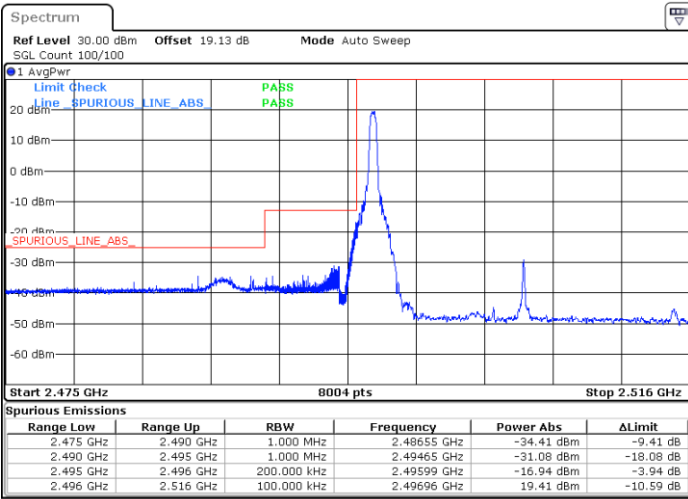


Conducted Band Edge

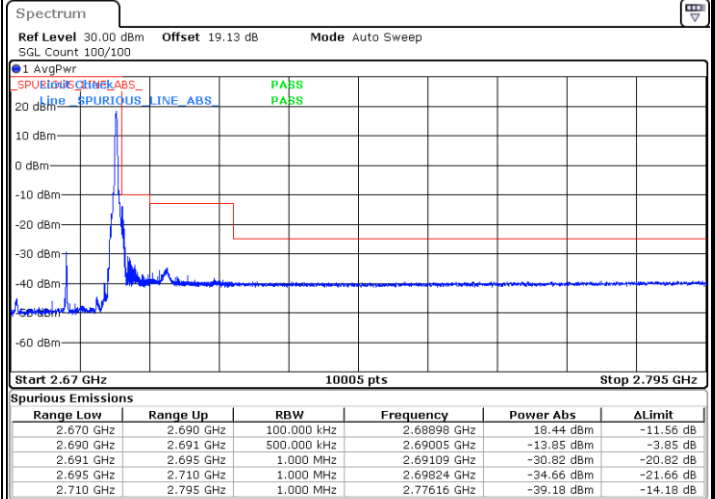
FR1 n41 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



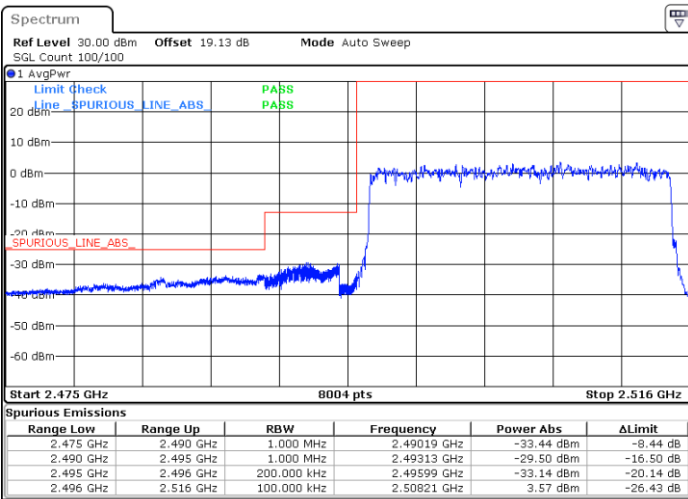
Date: 30.MAR.2021 15:25:47



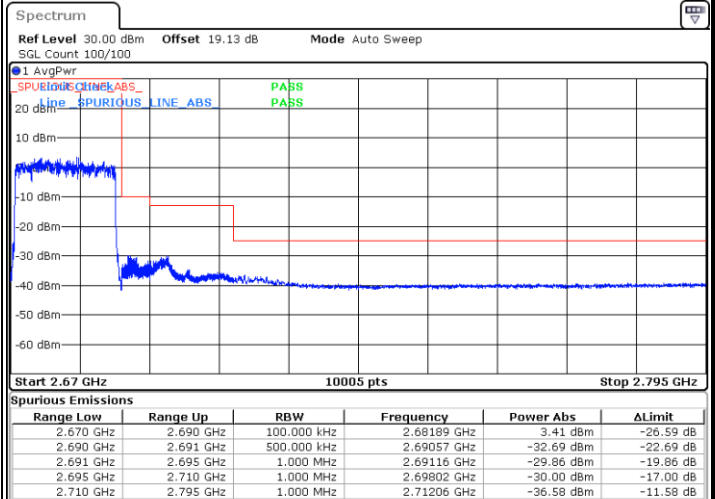
Date: 30.MAR.2021 15:51:59

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.MAR.2021 15:34:42



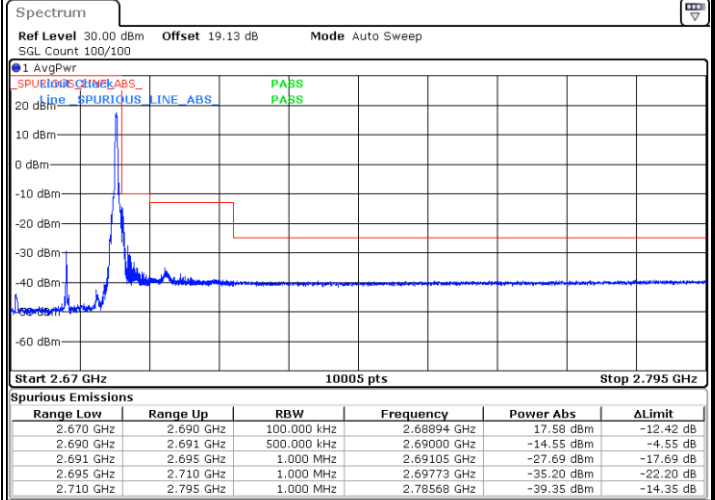
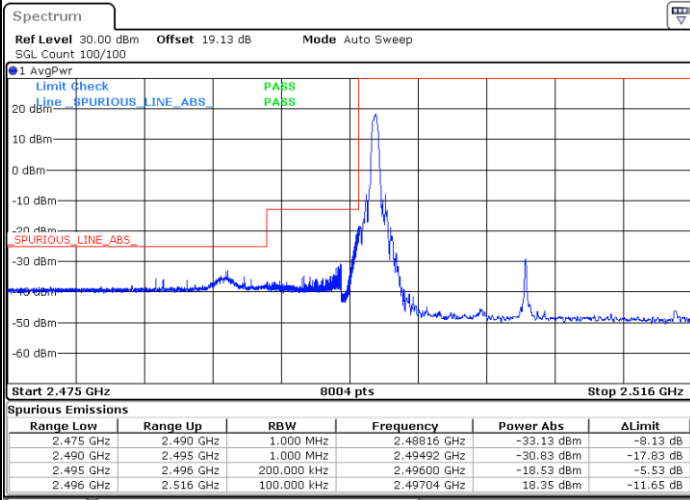
Date: 30.MAR.2021 15:55:28



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

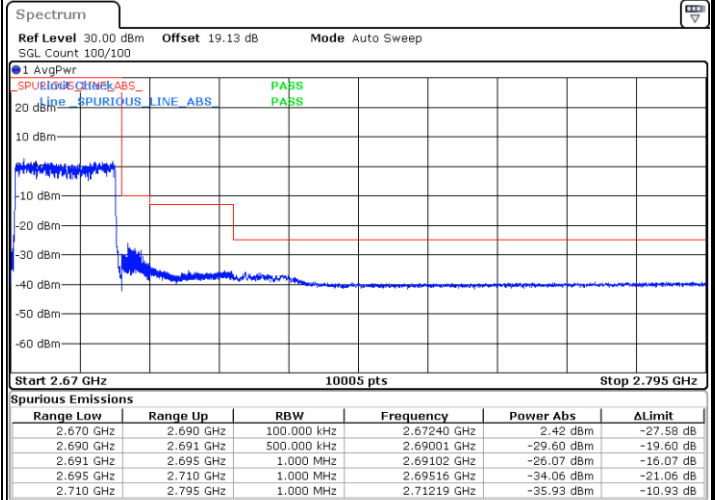
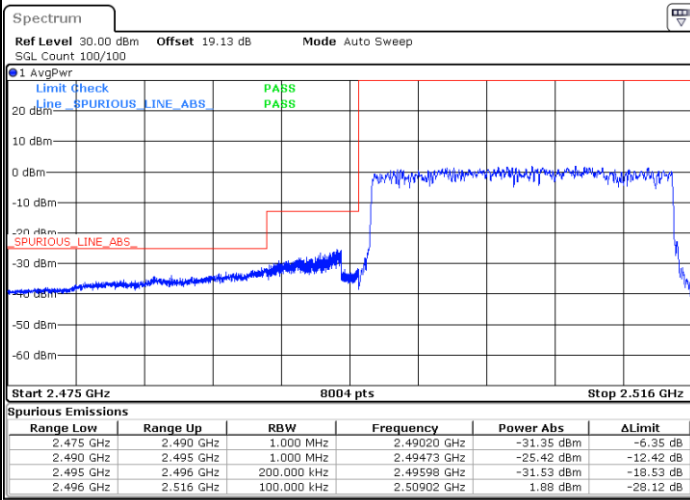


Date: 30.MAR.2021 15:26:28

Date: 30.MAR.2021 15:51:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.MAR.2021 15:34:20

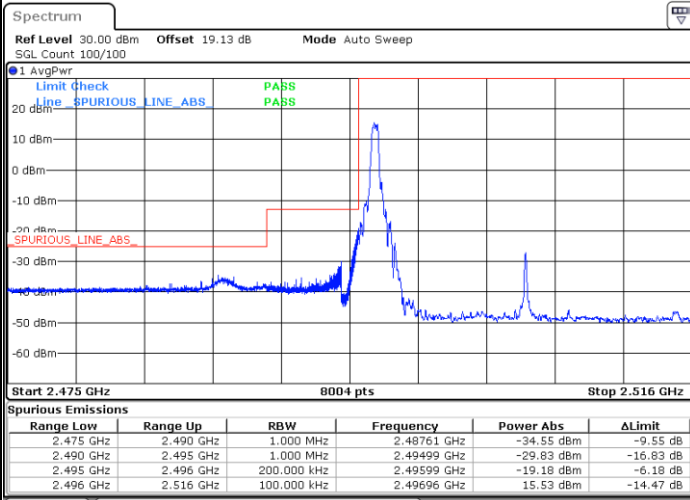
Date: 30.MAR.2021 15:55:01



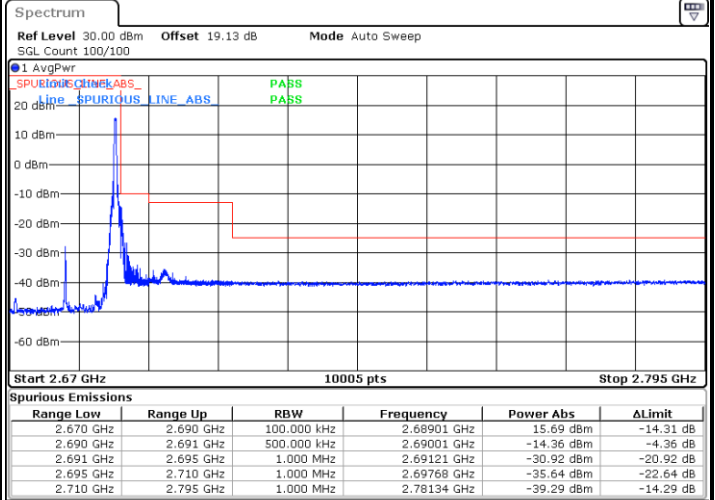
FR1 n41 / 20MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



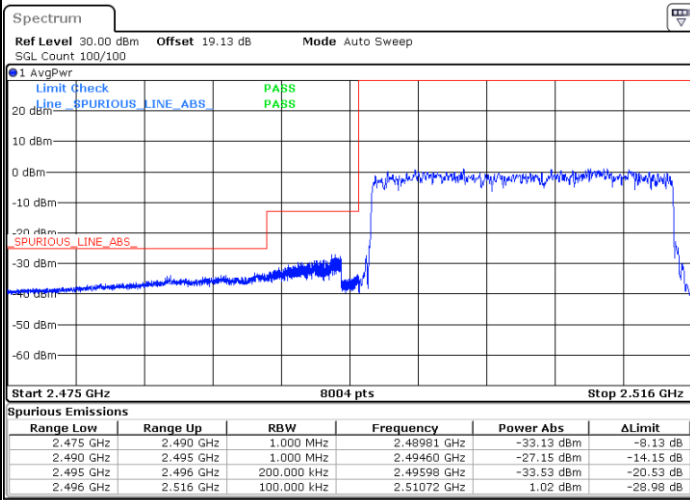
Date: 30.MAR.2021 15:26:53



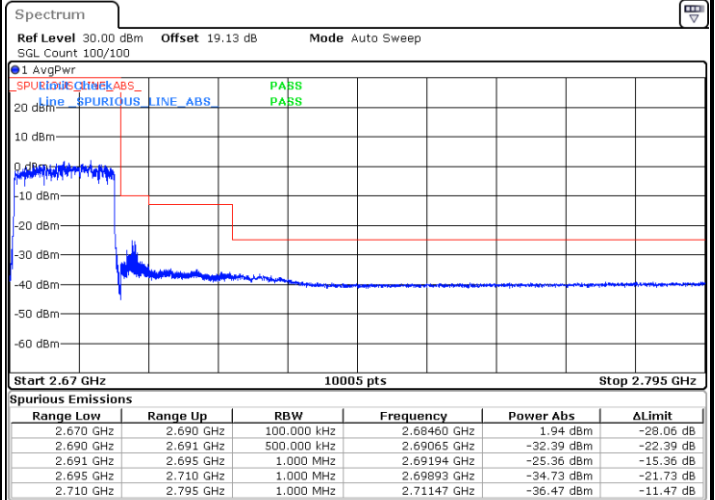
Date: 30.MAR.2021 15:52:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.MAR.2021 15:33:52



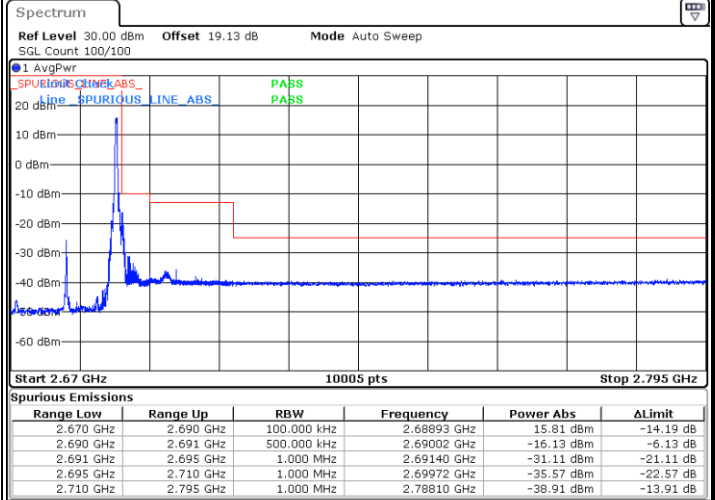
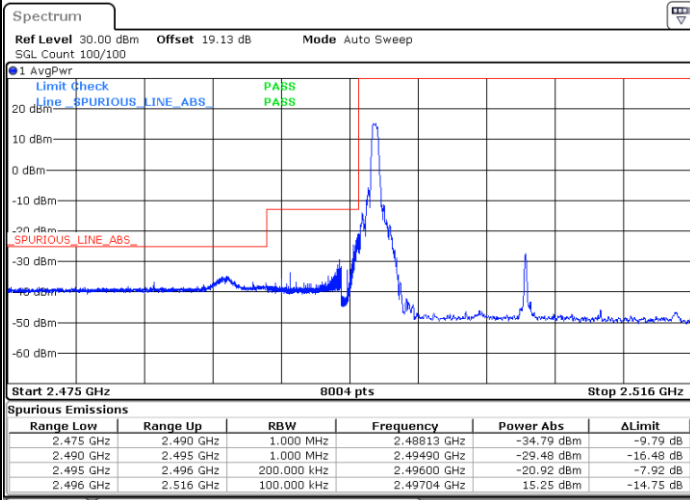
Date: 30.MAR.2021 15:54:37



FR1 n41 / 20MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

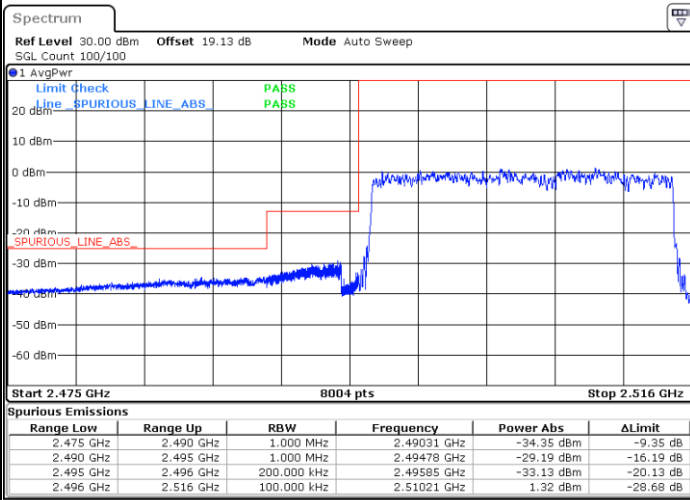


Date: 30.MAR.2021 15:27:26

Date: 30.MAR.2021 15:52:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.MAR.2021 15:33:27

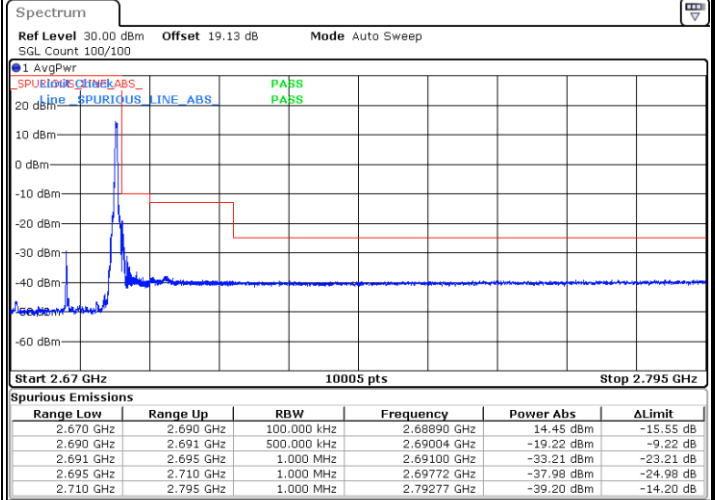
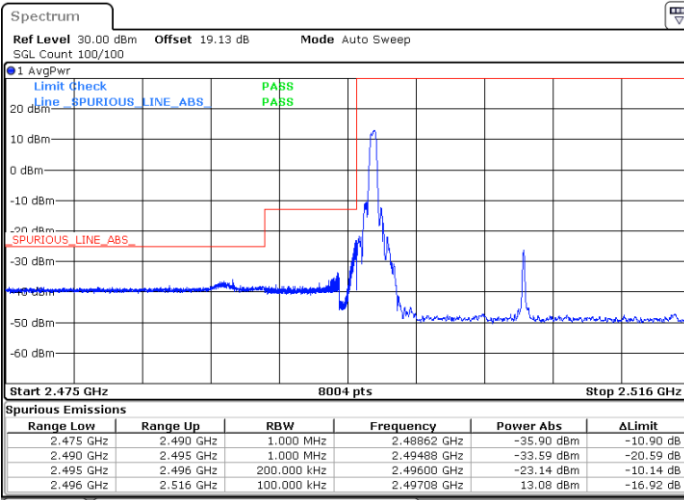
Date: 30.MAR.2021 15:54:10



FR1 n41 / 20MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

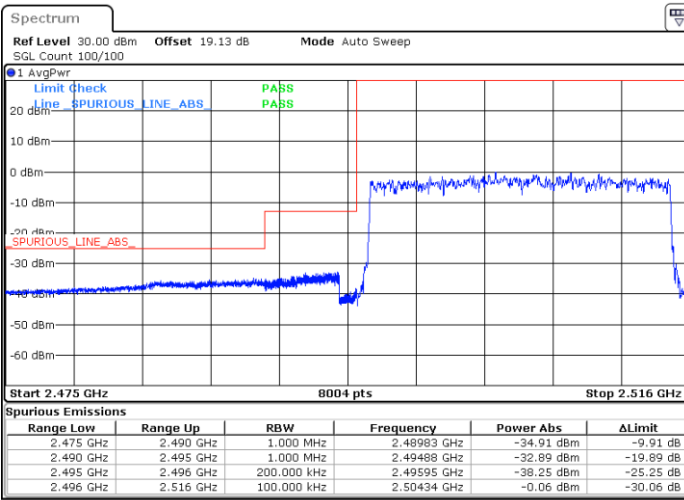


Date: 30.MAR.2021 15:28:21

Date: 30.MAR.2021 15:53:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.MAR.2021 15:29:02

Date: 30.MAR.2021 15:53:43



FR1 n41 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge

