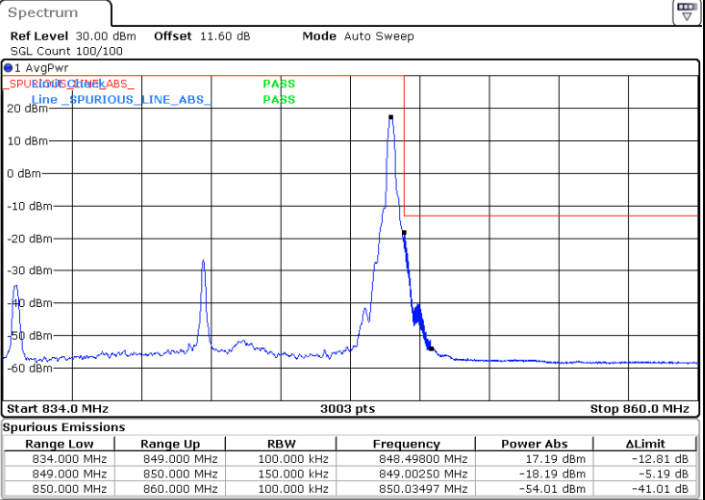
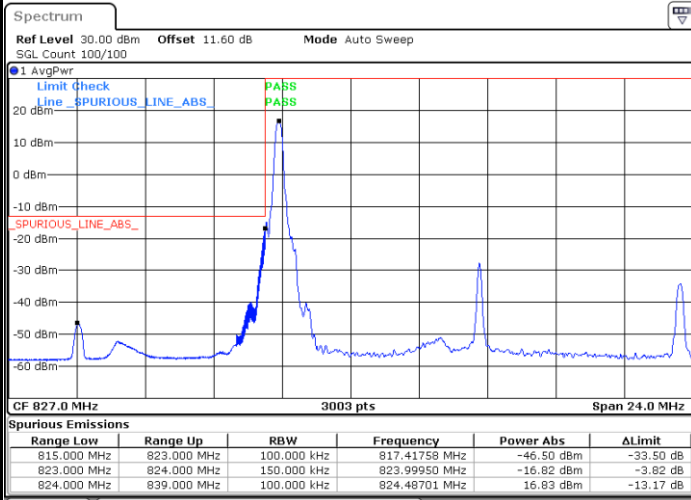




FR1 n5 / 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

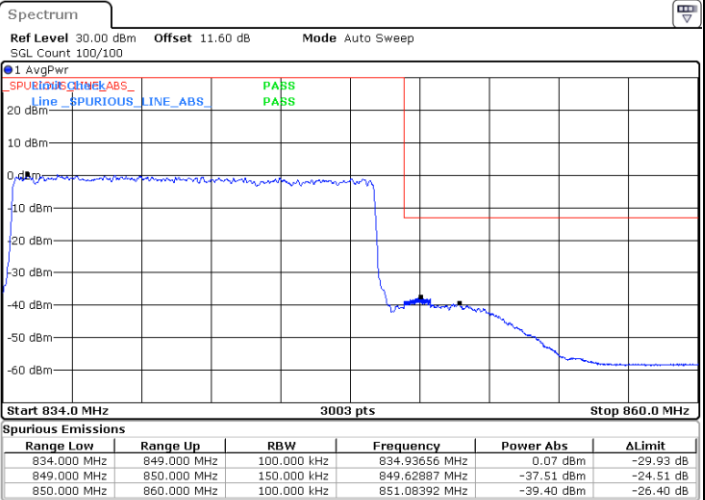
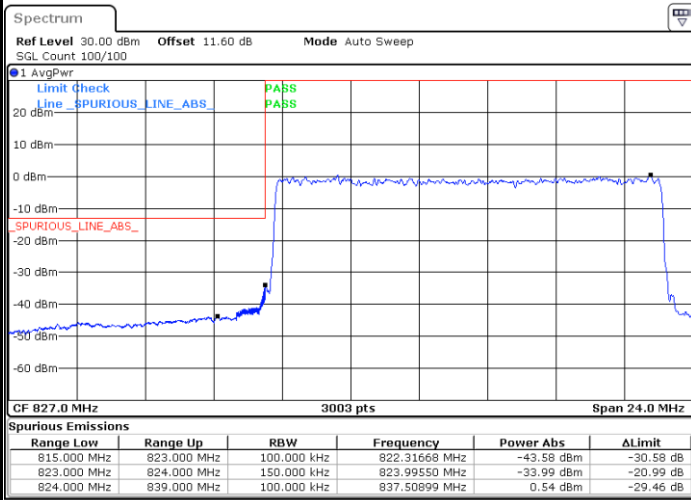


Date: 16.OCT.2020 13:45:26

Date: 16.OCT.2020 14:03:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 13:46:32

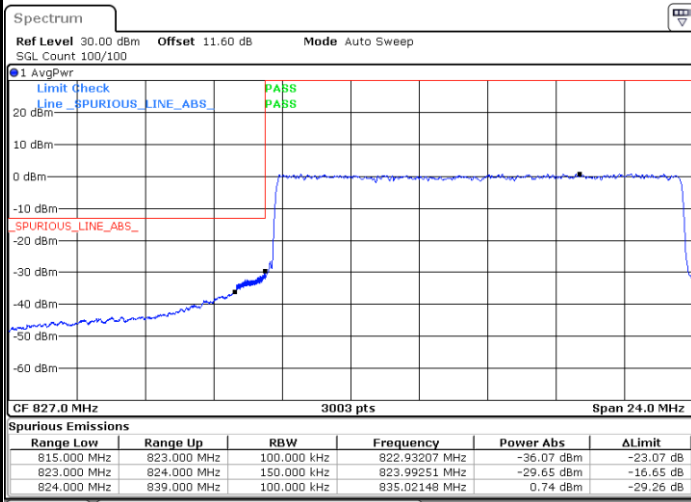
Date: 16.OCT.2020 14:04:08



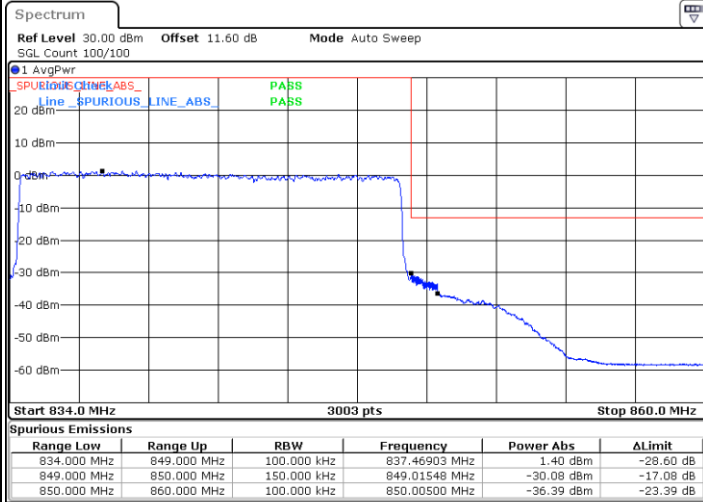
FR1 n5 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 13:54:56



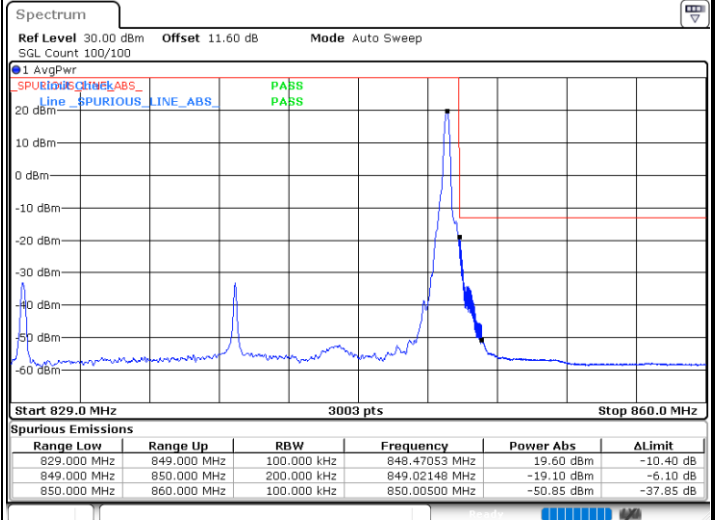
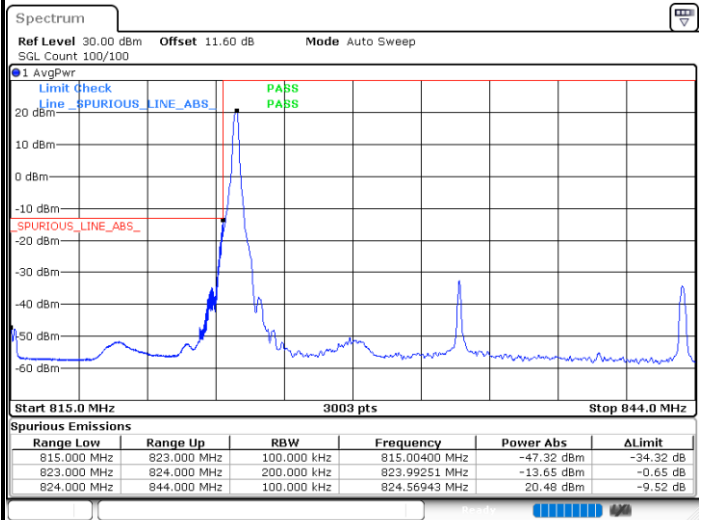
Date: 16.OCT.2020 14:07:48



FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

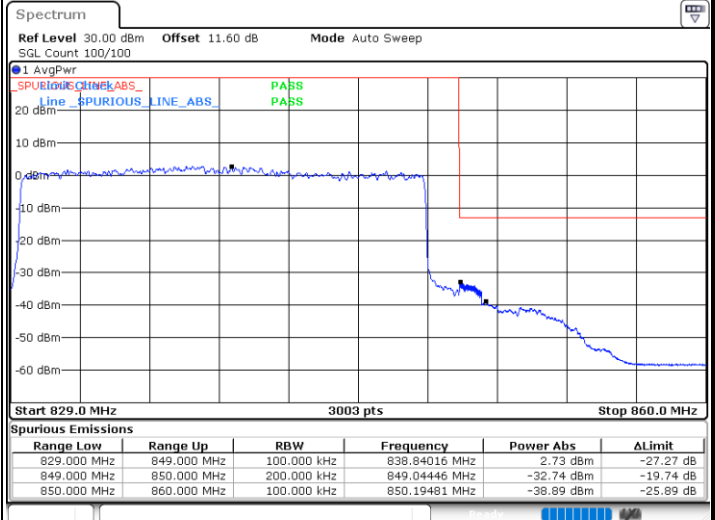
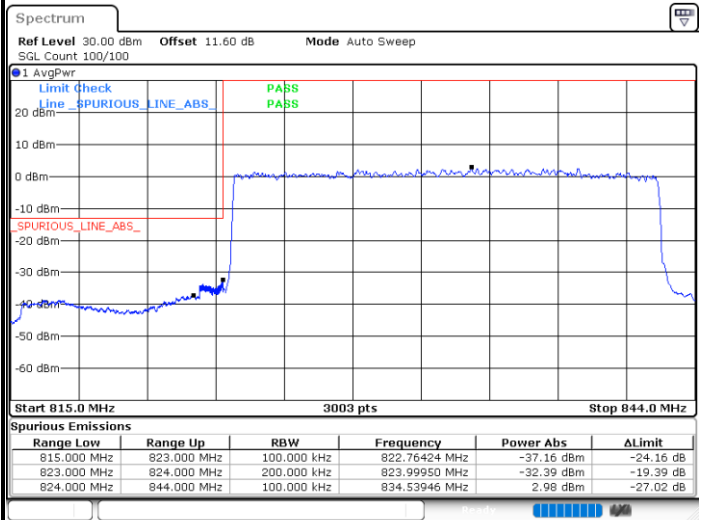


Date: 16.OCT.2020 11:27:19

Date: 16.OCT.2020 13:36:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 11:32:50

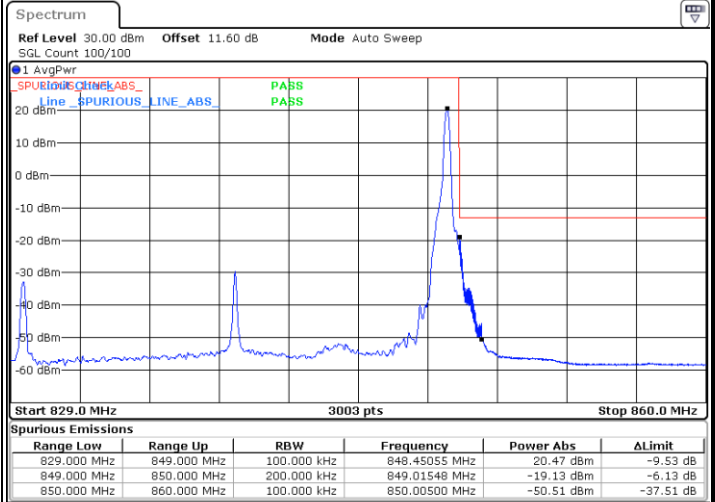
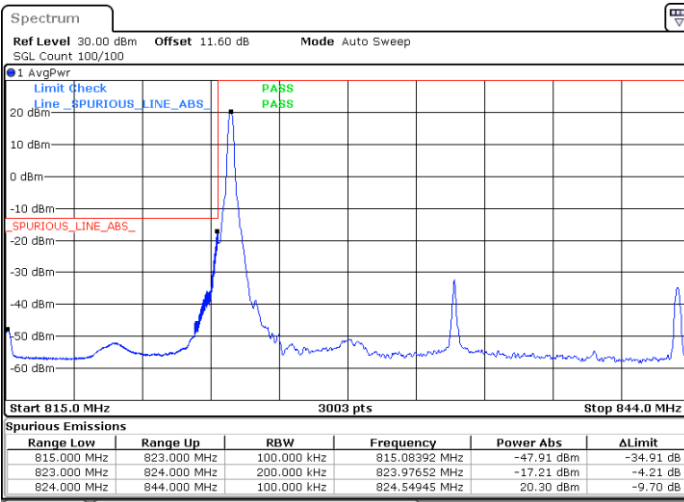
Date: 16.OCT.2020 11:48:51



FR1 n5 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

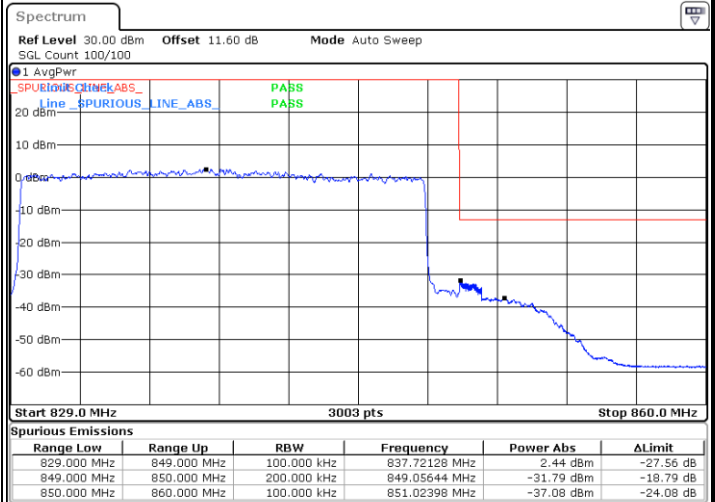
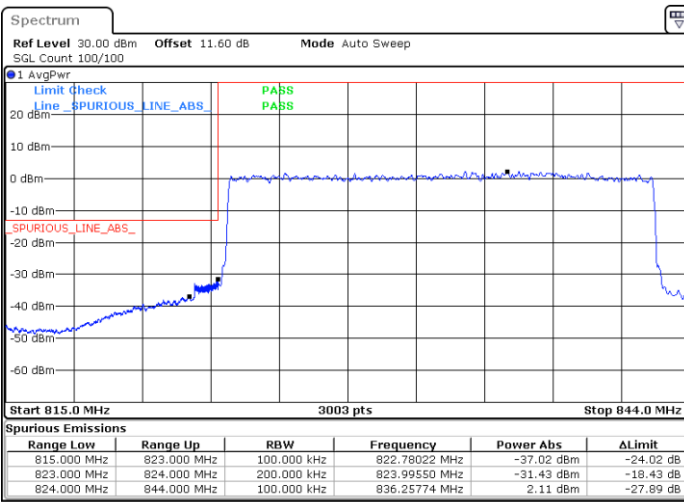


Date: 16.OCT.2020 11:28:05

Date: 16.OCT.2020 11:53:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 11:32:17

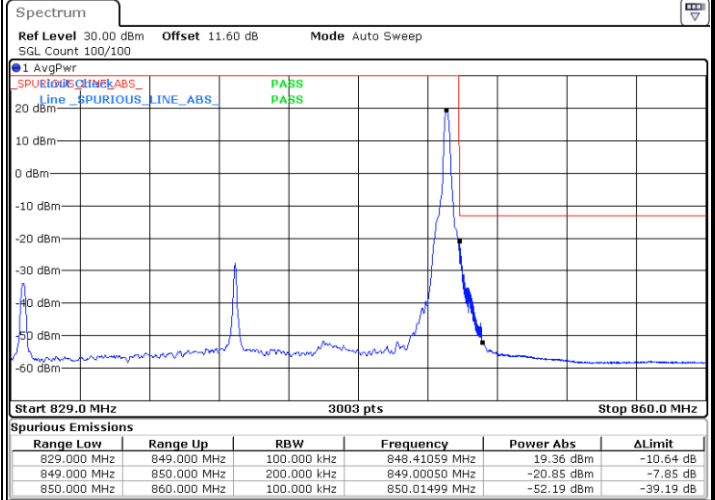
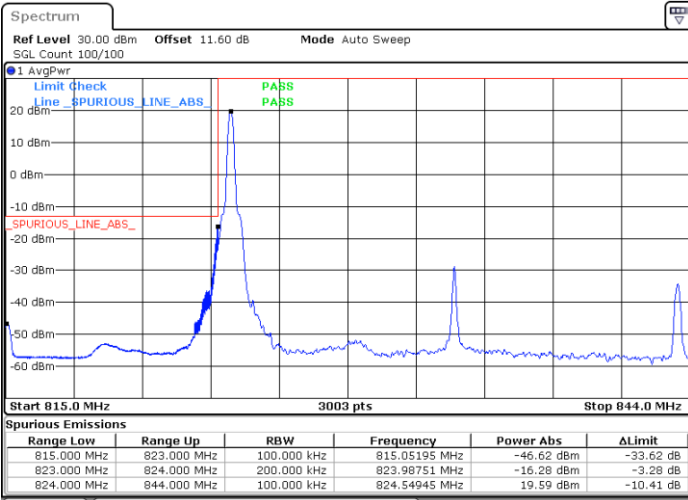
Date: 16.OCT.2020 11:47:38



FR1 n5 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

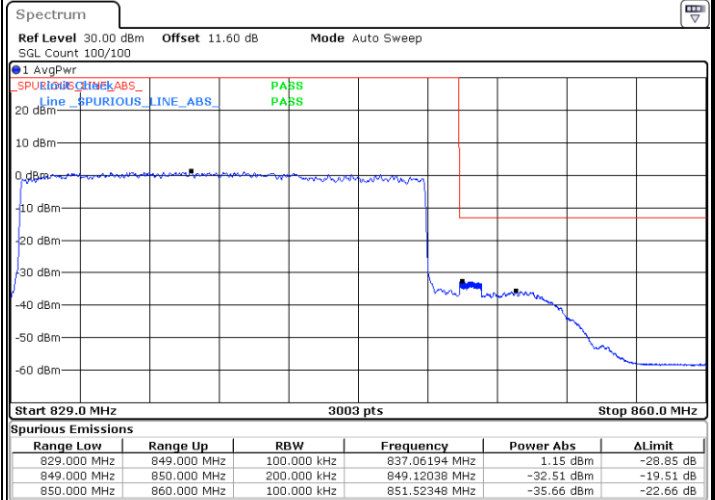
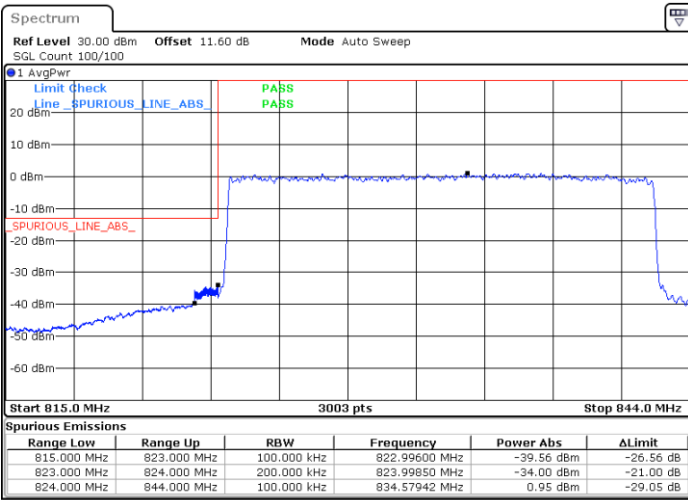


Date: 16.OCT.2020 11:28:38

Date: 16.OCT.2020 11:53:01

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



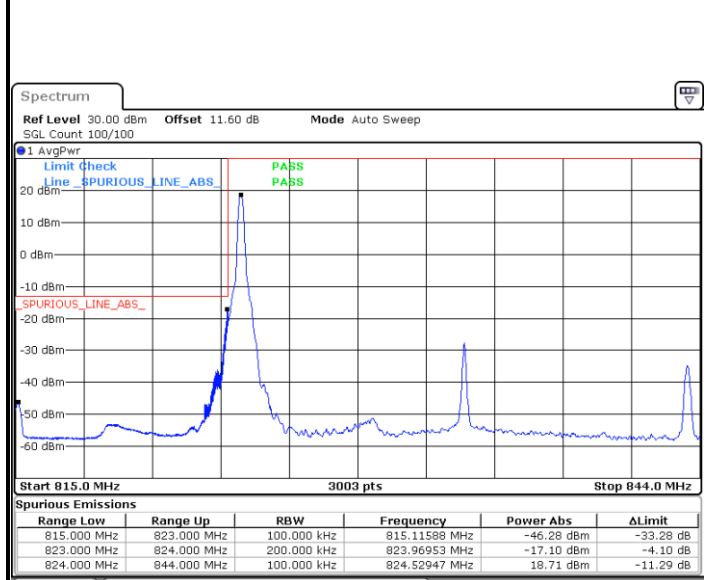
Date: 16.OCT.2020 11:31:44

Date: 16.OCT.2020 11:49:40



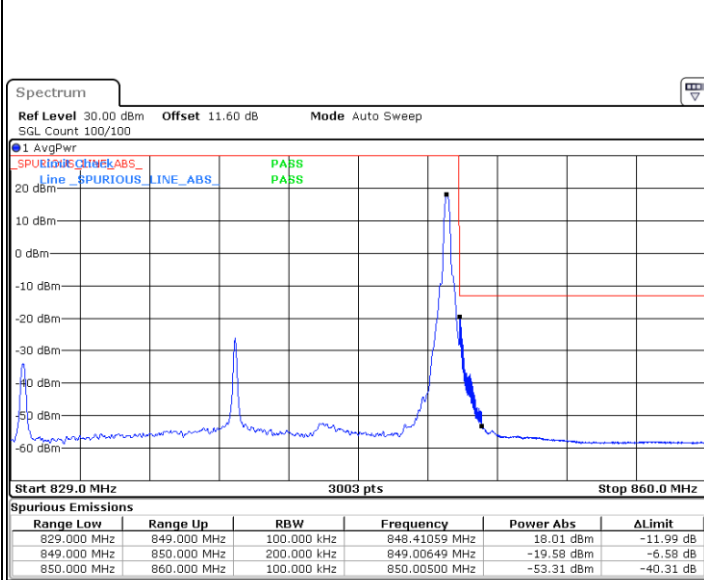
FR1 n5 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0



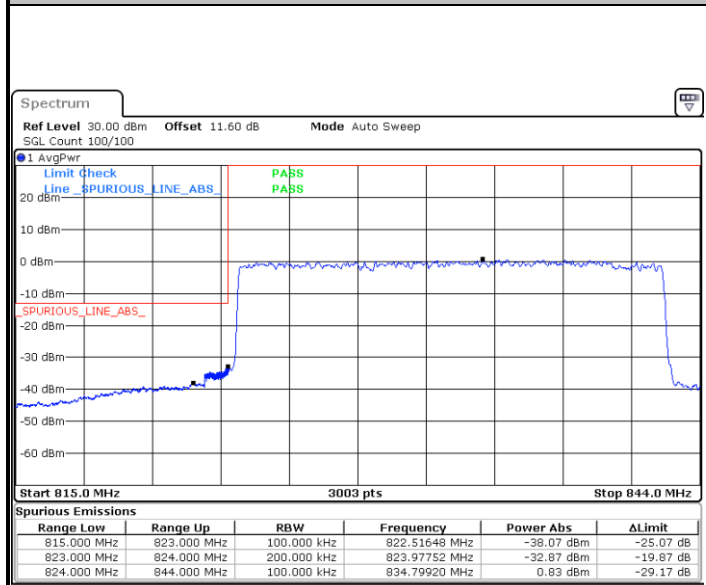
Date: 16.OCT.2020 11:29:20

Highest Band Edge / 1RBmax



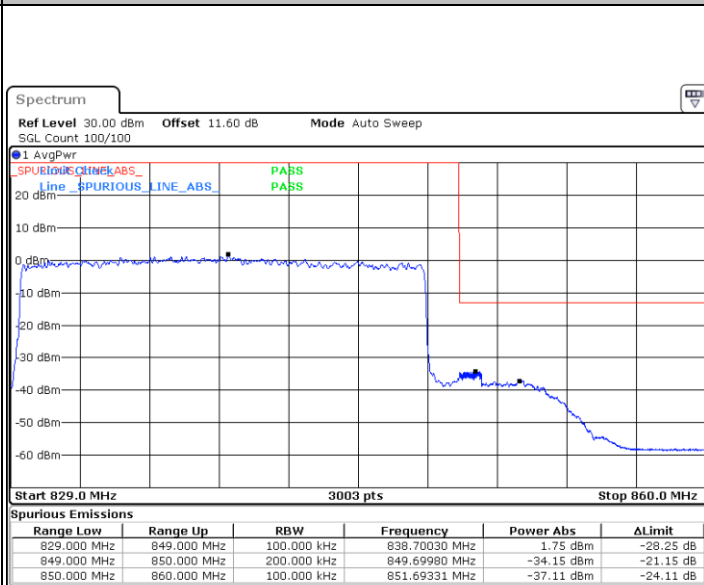
Date: 16.OCT.2020 11:52:21

Lowest Band Edge / Full RB



Date: 16.OCT.2020 11:31:05

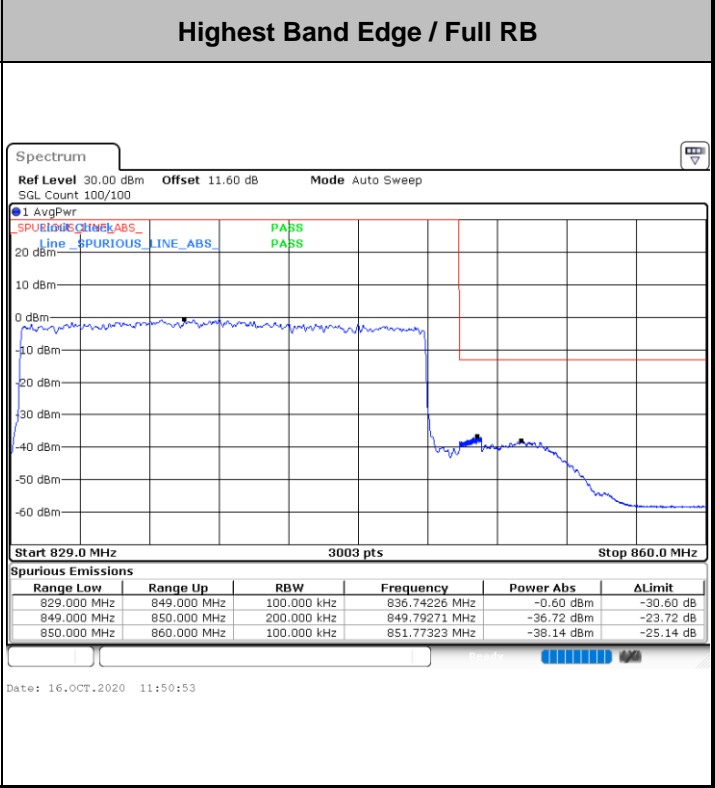
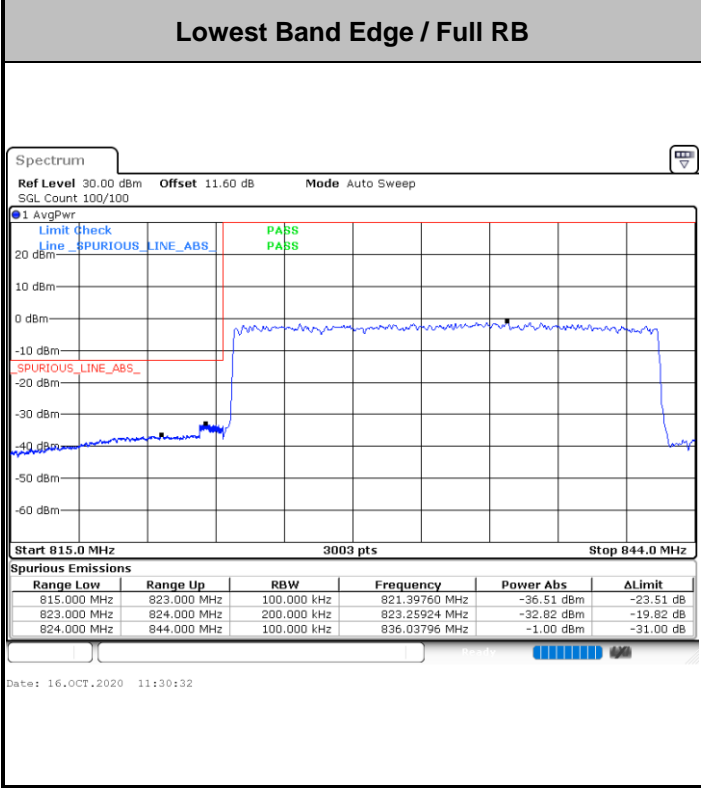
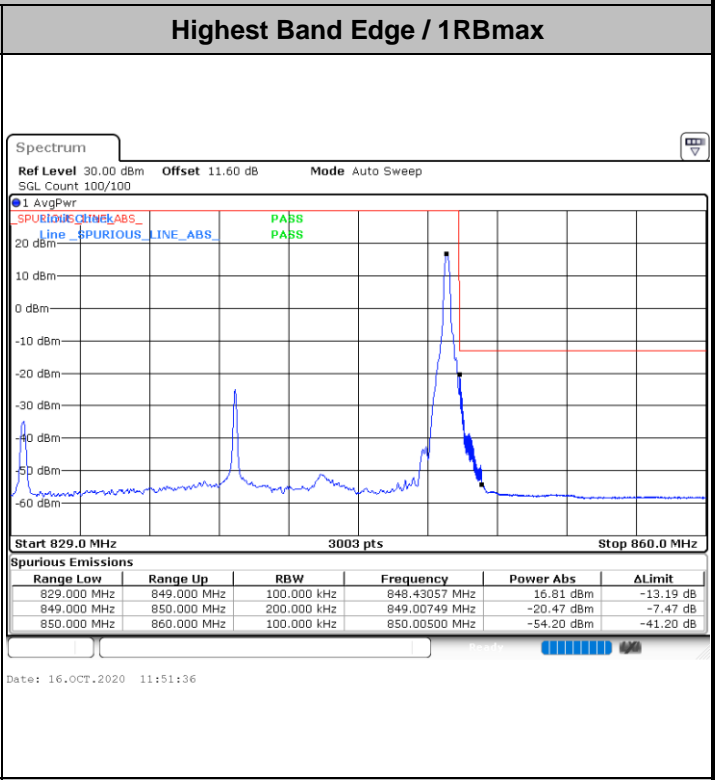
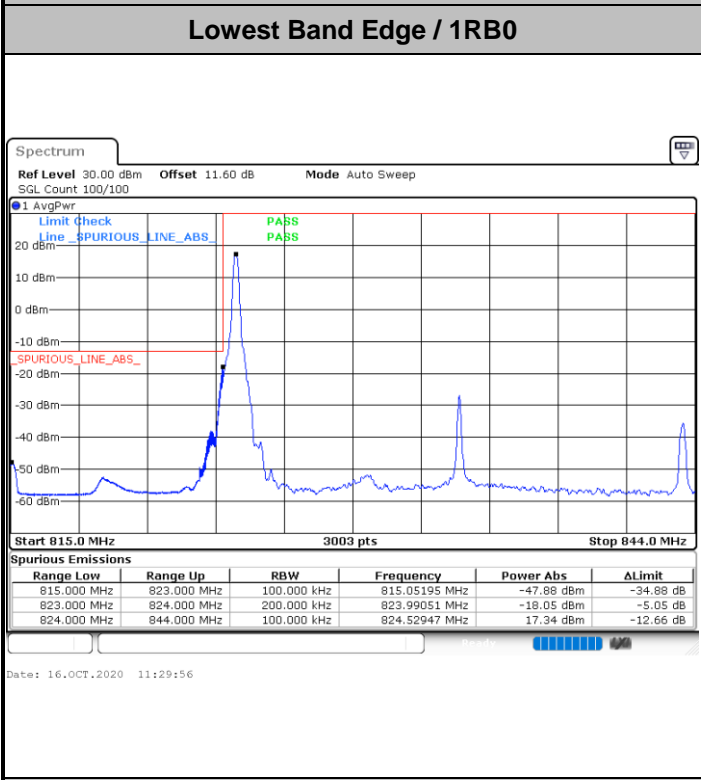
Highest Band Edge / Full RB

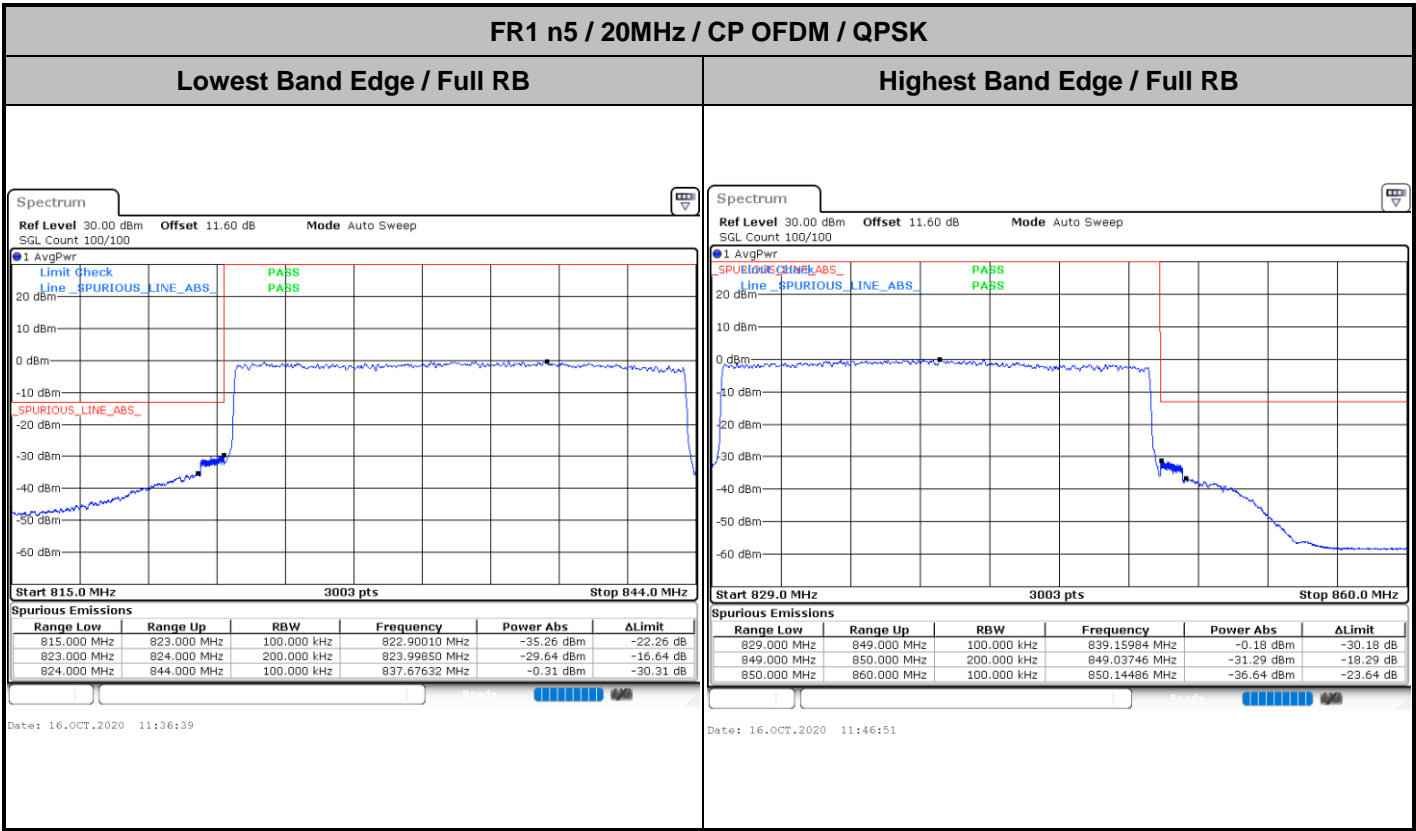


Date: 16.OCT.2020 11:50:17



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



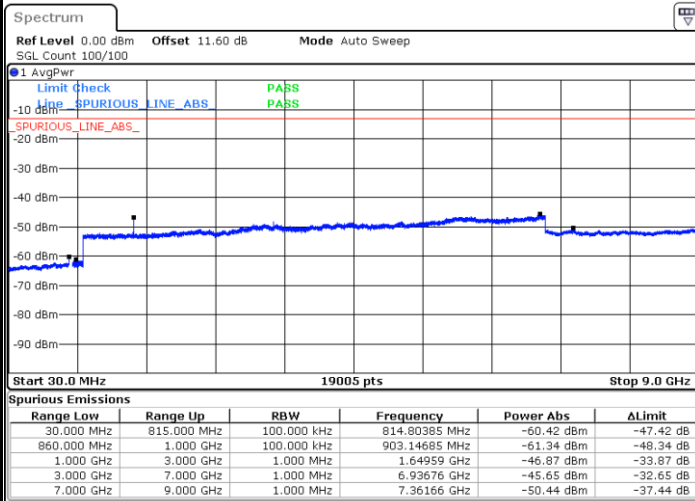




Conducted Spurious Emission

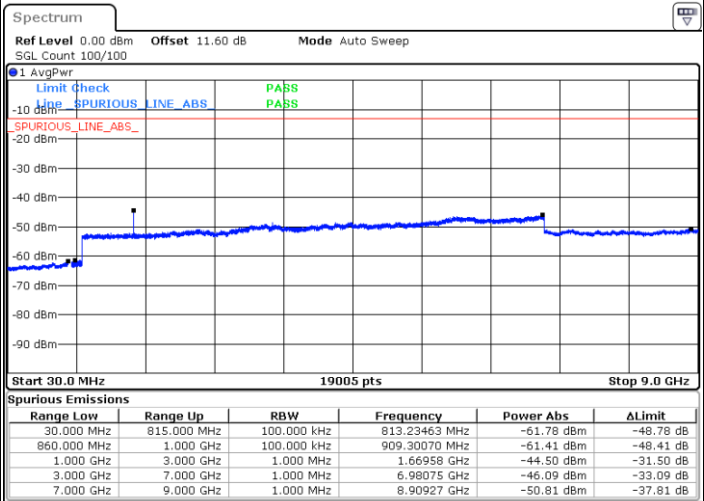
FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



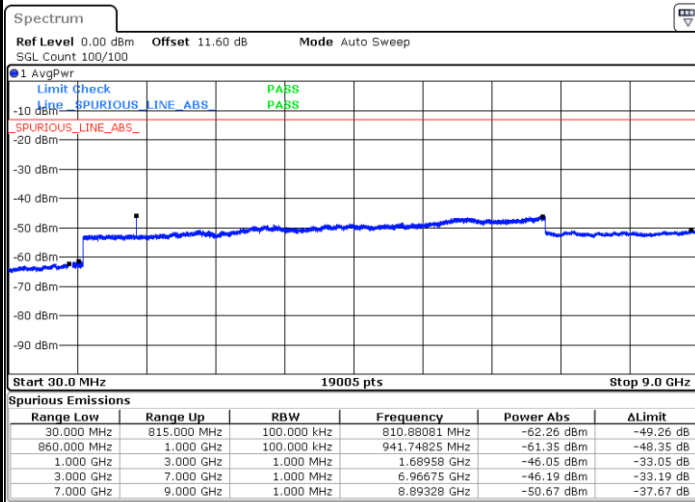
Date: 16.OCT.2020 14:59:03

Middle Channel / 1RB1



Date: 16.OCT.2020 14:55:52

Highest Channel / 1RB1



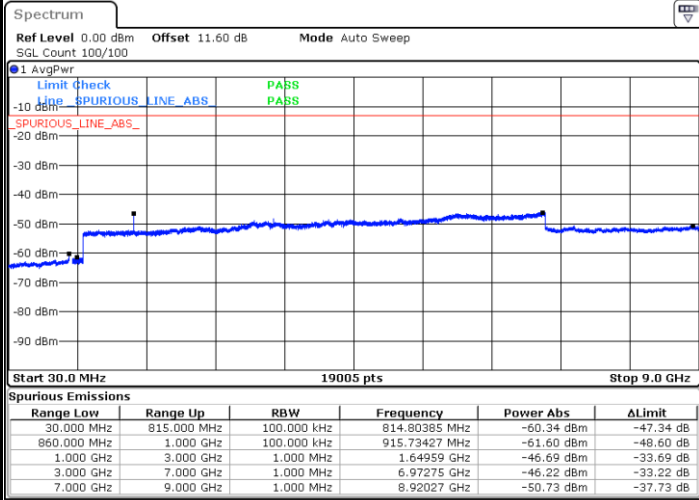
Date: 16.OCT.2020 15:09:02



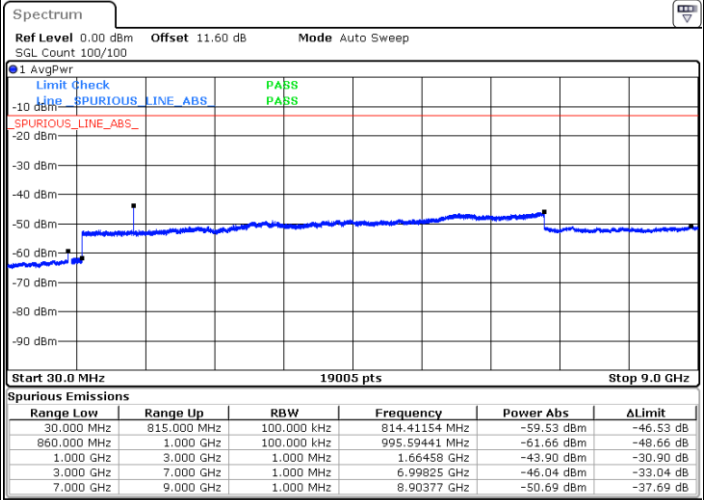
FR1 n5 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

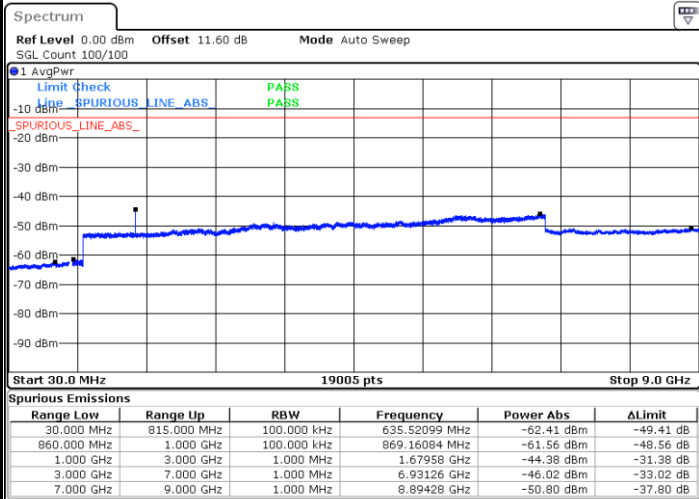


Date: 16.OCT.2020 14:23:53



Date: 16.OCT.2020 14:28:16

Highest Channel / 1RB1



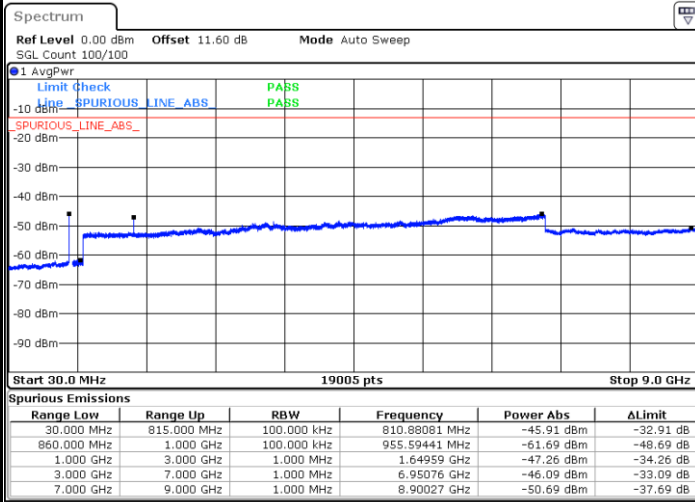
Date: 16.OCT.2020 14:40:23



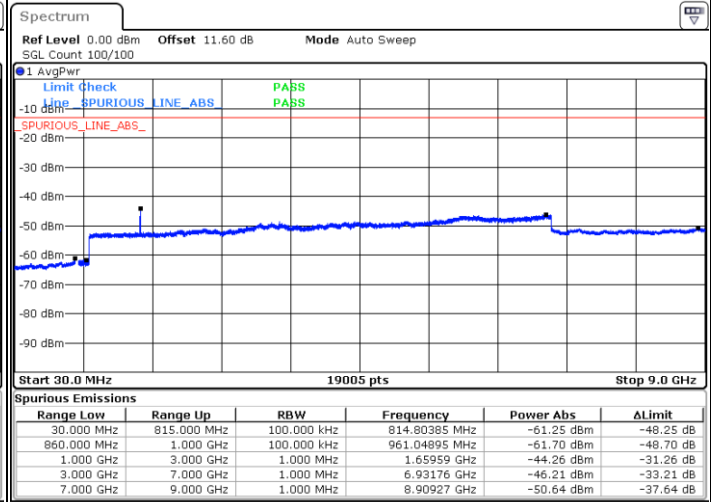
FR1 n5 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

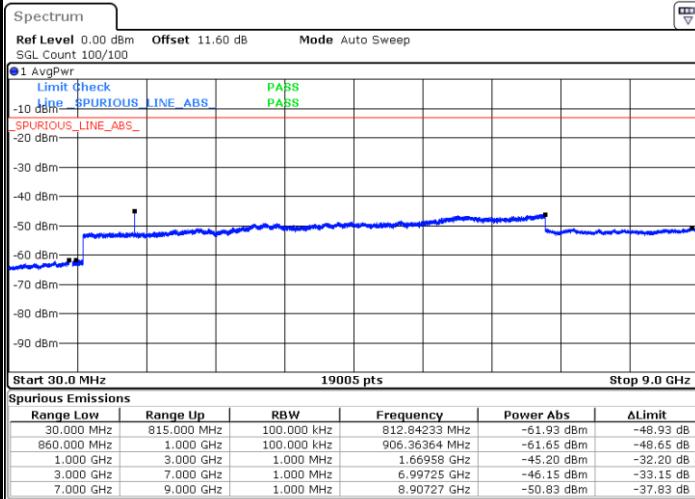


Date: 16.OCT.2020 13:39:44



Date: 16.OCT.2020 13:58:15

Highest Channel / 1RB1



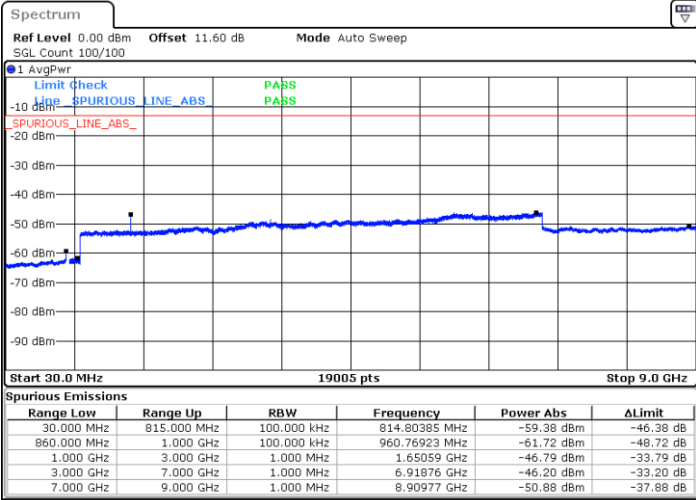
Date: 16.OCT.2020 13:59:27



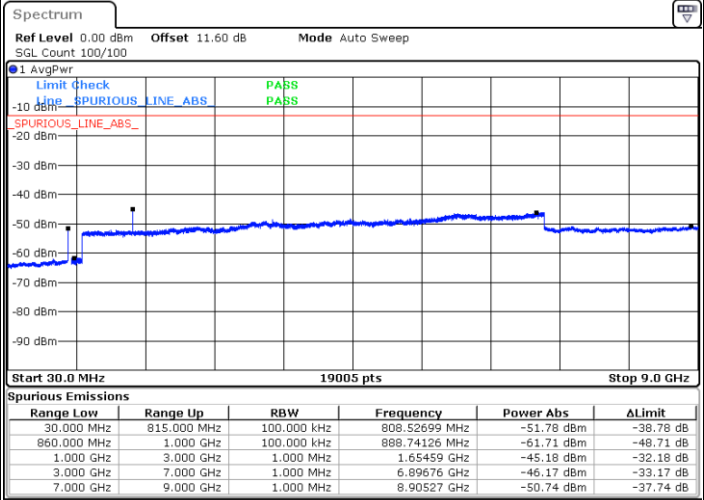
FR1 n5 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

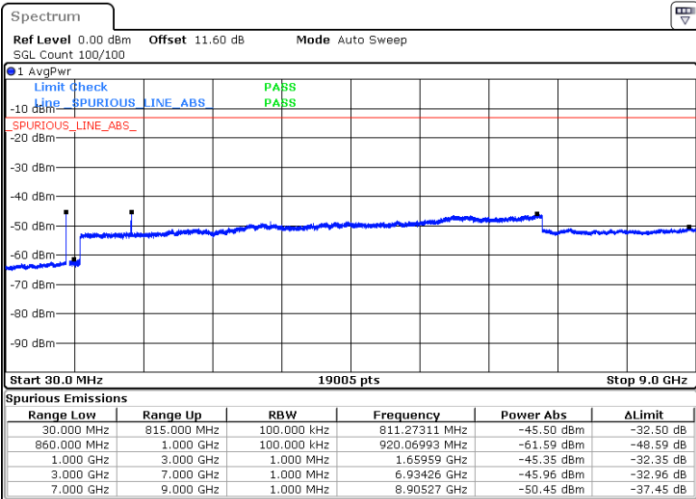


Date: 16.OCT.2020 11:38:12



Date: 16.OCT.2020 11:39:05

Highest Channel / 1RB1



Date: 16.OCT.2020 13:37:36



Frequency Stability

Test Conditions		FR1 n5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0043	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0194	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0025	

Note:

1. Normal Voltage =3.80 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n41

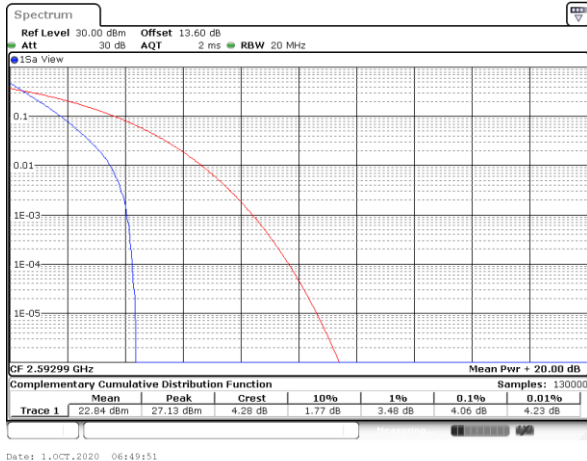
Peak-to-Average Ratio

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	4.06	4.64	5.97	6.49	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	7.07				PASS



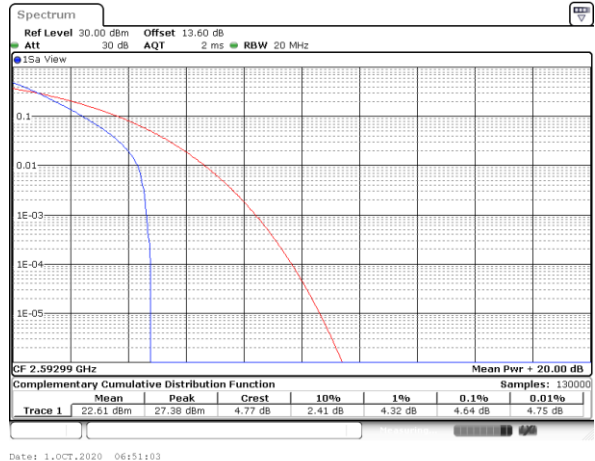
FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



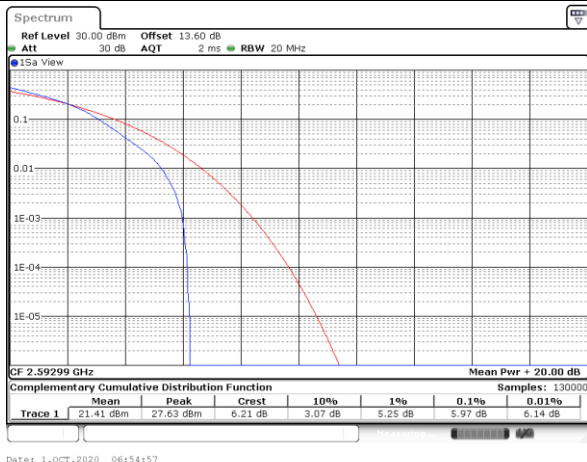
Date: 1.OCT.2020 06:14:51

QPSK



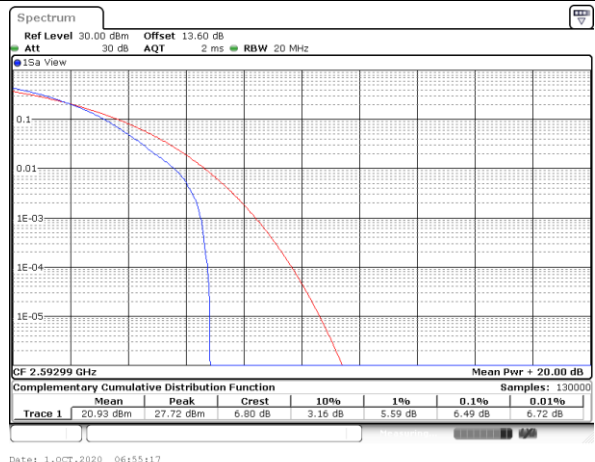
Date: 1.OCT.2020 06:15:03

16QAM



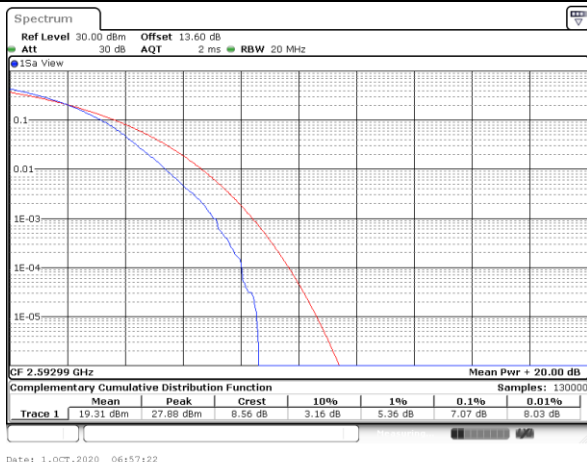
Date: 1.OCT.2020 06:15:17

64QAM



Date: 1.OCT.2020 06:15:17

256QAM



Date: 1.OCT.2020 06:15:22



26dB Bandwidth

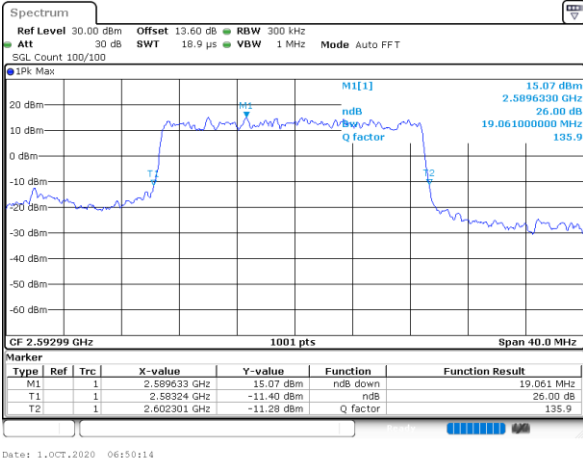
Mode	FR1 n41 : 26dB BW(MHz) / DFT-S OFDM							
BW	20MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz	
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	
Middle CH	19.06	38.12	48.35	61.14	84.24	89.55	99.50	

Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM							
BW	20MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	19.38	19.54	40.68	40.44	49.95	50.15	60.54	60.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	19.34	19.38	40.44	40.28	50.15	50.05	60.54	60.66
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	80.40	82.00	91.35	92.07	100.70	100.50		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	81.04	81.52	90.63	93.33	100.70	100.50		



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

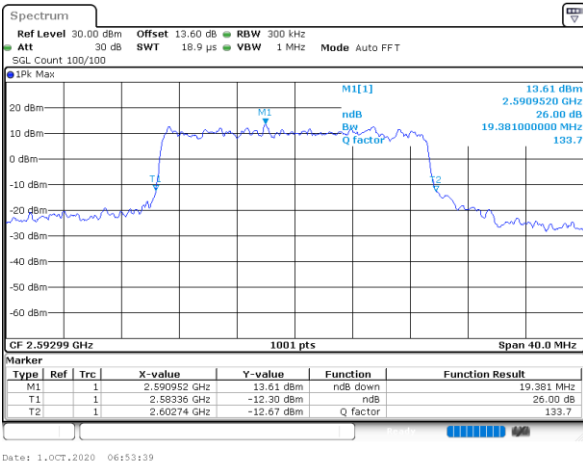
PI/2 BPSK



Date: 1.OCT.2020 06:15:14

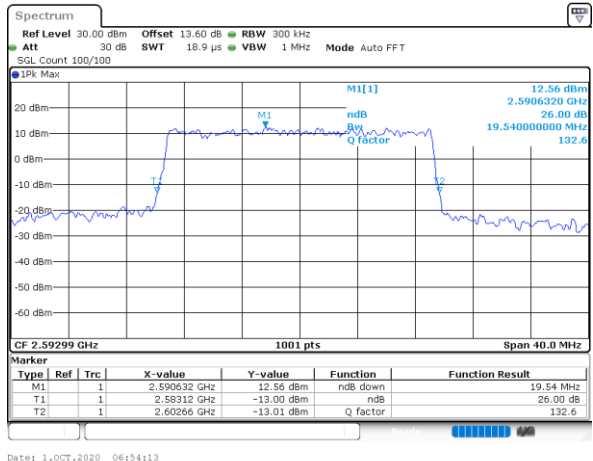
FR1 n41 / 20MHz / CP OFDM

QPSK



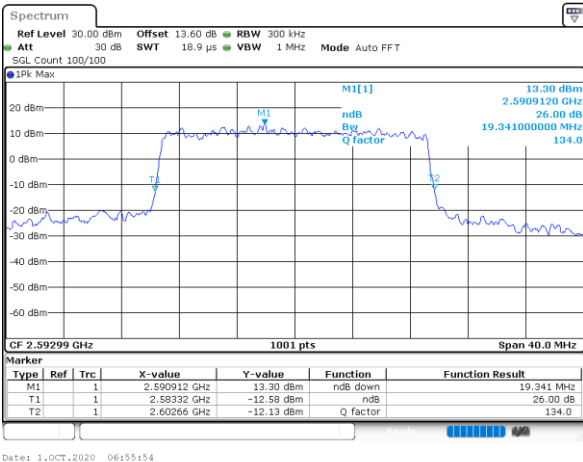
Date: 1.OCT.2020 06:15:13

16QAM



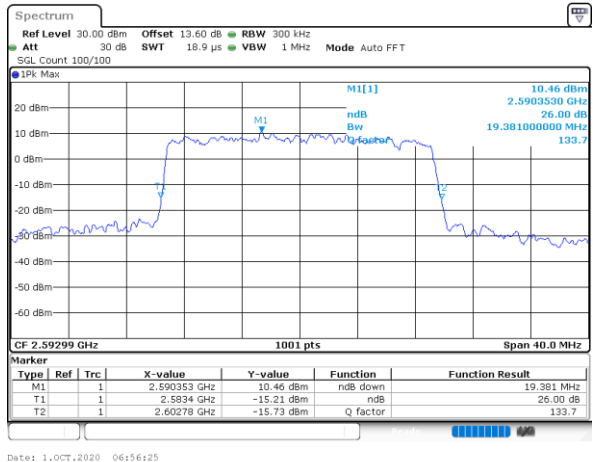
Date: 1.OCT.2020 06:15:13

64QAM



Date: 1.OCT.2020 06:15:14

256QAM

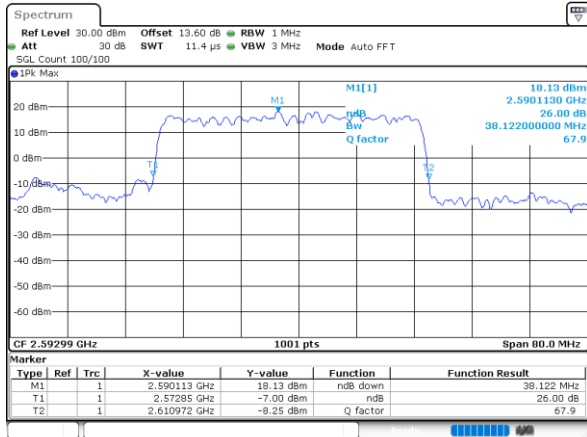


Date: 1.OCT.2020 06:15:25



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

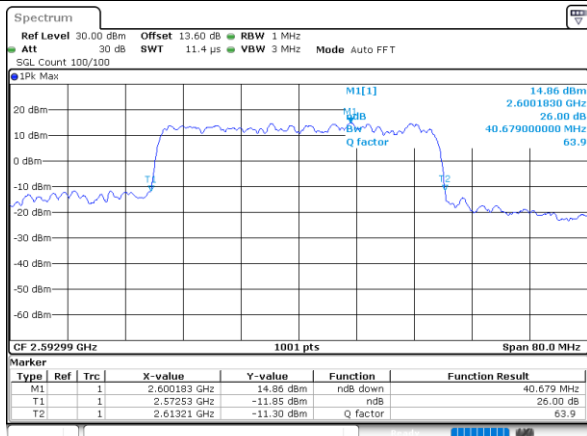
PI/2 BPSK



Date: 1.OCT.2020 07:10:10

QPSK

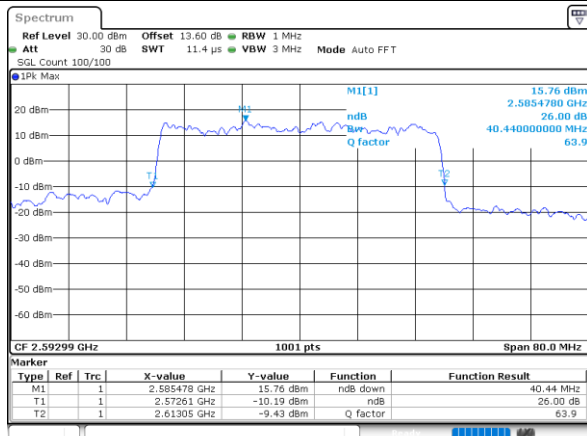
Middle Channel



Date: 1.OCT.2020 07:10:28

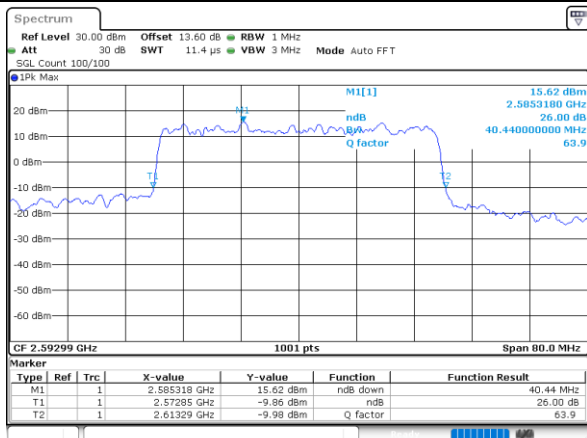
16QAM

Middle Channel



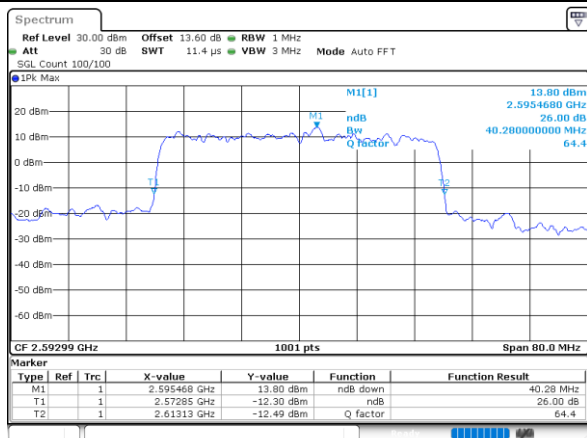
Date: 1.OCT.2020 07:10:21

64QAM



Date: 1.OCT.2020 07:10:56

256QAM

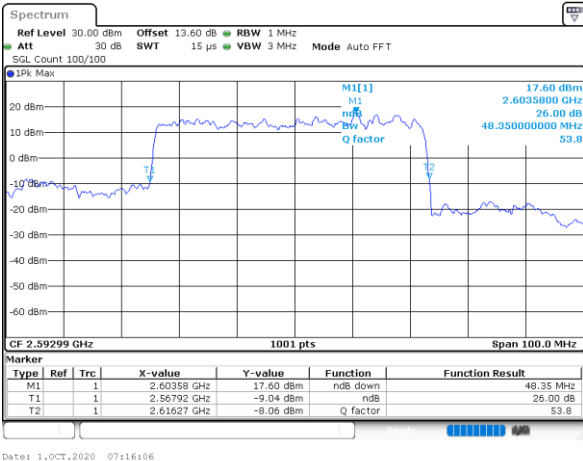


Date: 1.OCT.2020 07:10:14



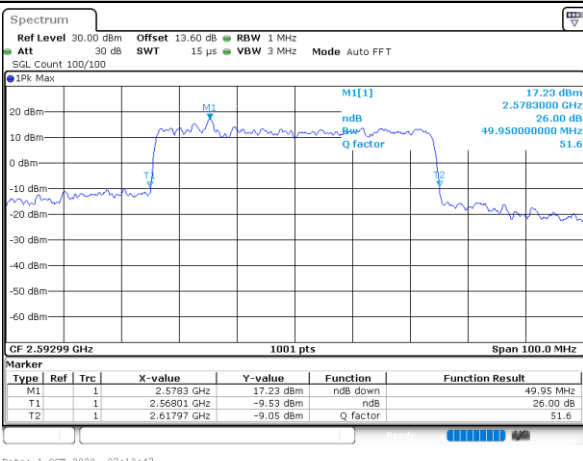
FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



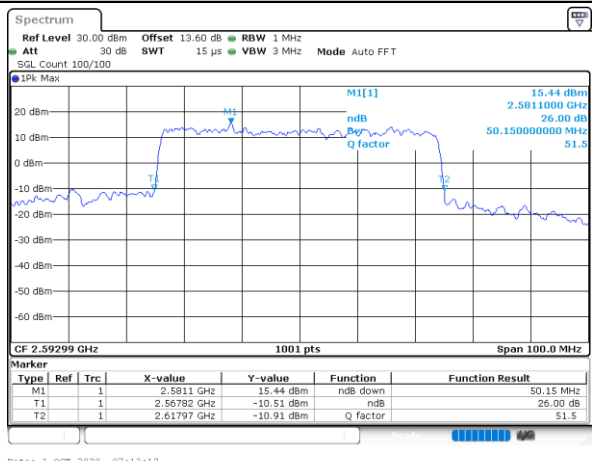
Date: 1.OCT.2020 07:11:06

QPSK



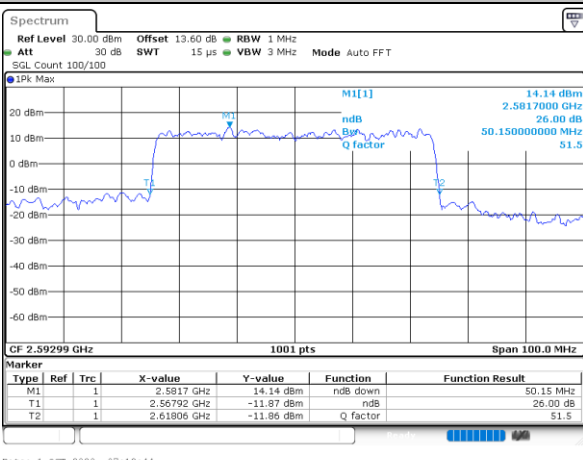
Date: 1.OCT.2020 07:13:47

16QAM



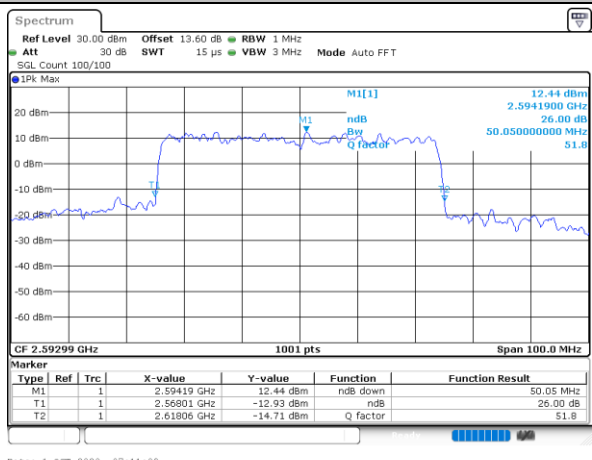
Date: 1.OCT.2020 07:13:12

64QAM



Date: 1.OCT.2020 07:12:44

256QAM

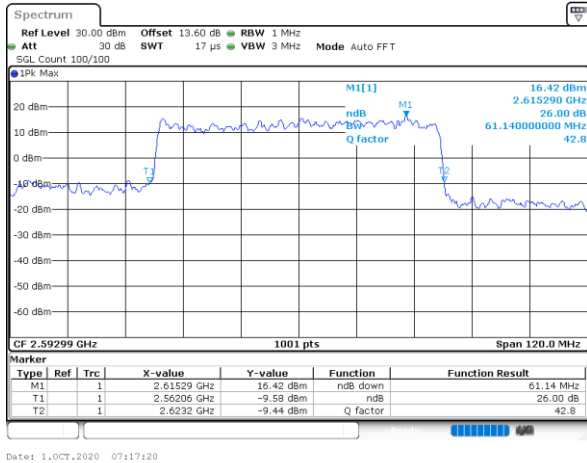


Date: 1.OCT.2020 07:11:09



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

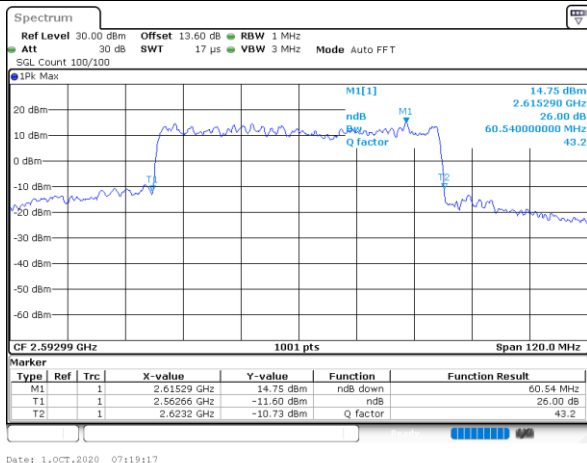
PI/2 BPSK



Date: 1.OCT.2020 07:17:20

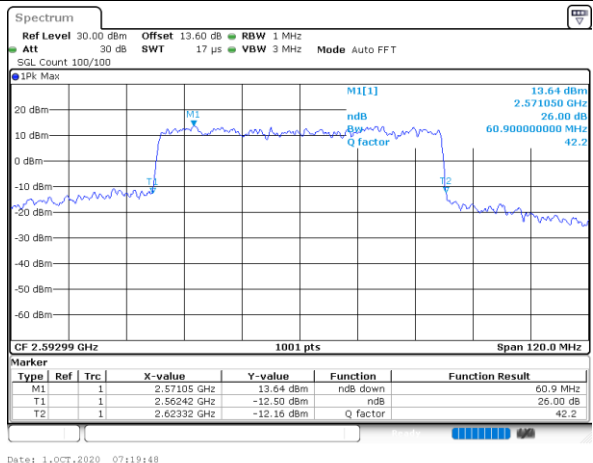
FR1 n41 / 60MHz / CP OFDM

QPSK



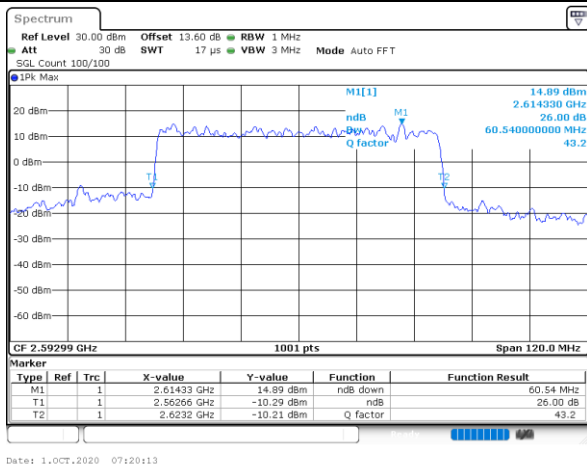
Date: 1.OCT.2020 07:19:17

16QAM



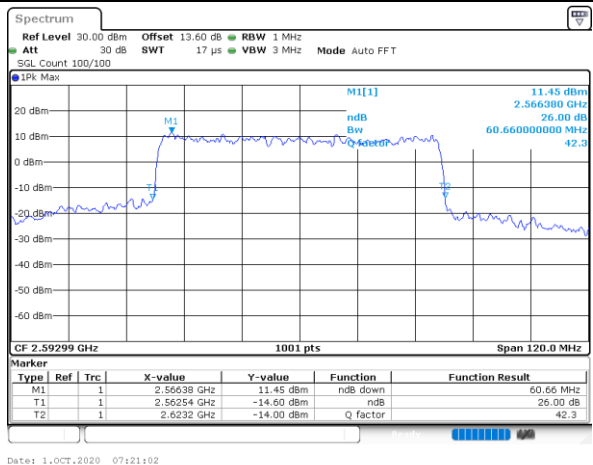
Date: 1.OCT.2020 07:19:46

64QAM



Date: 1.OCT.2020 07:20:13

256QAM

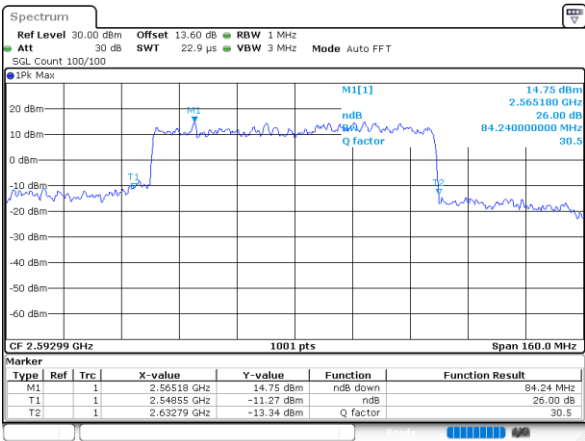


Date: 1.OCT.2020 07:21:02



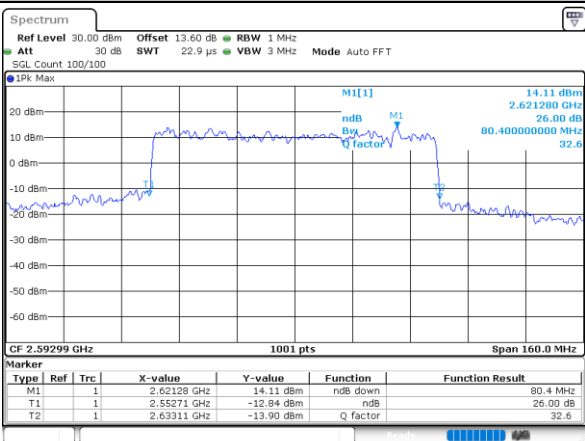
FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



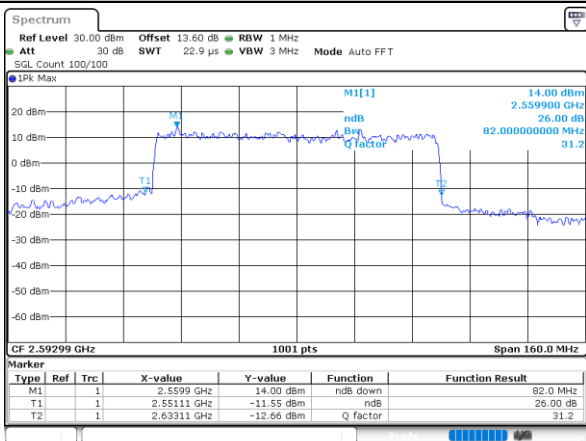
Date: 1.OCT.2020 07:22:00

QPSK



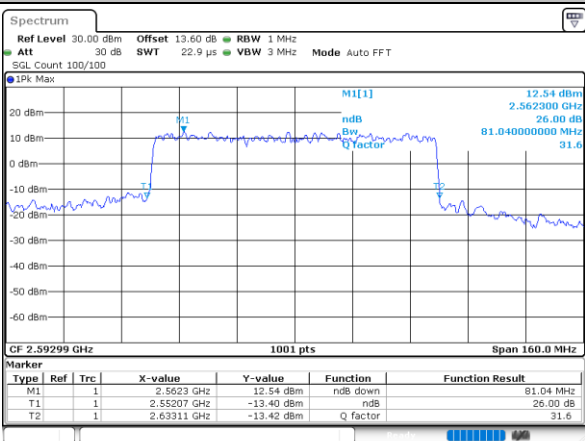
Date: 1.OCT.2020 07:23:58

16QAM



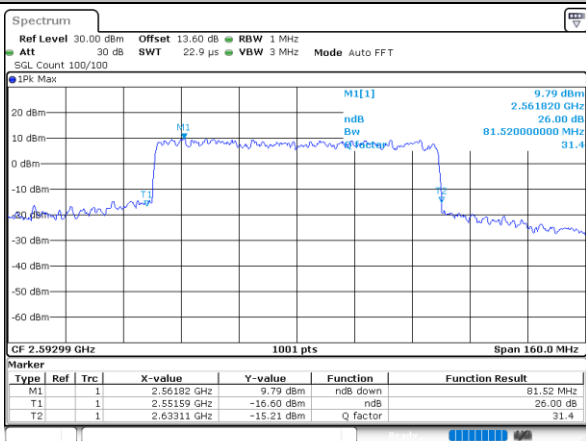
Date: 1.OCT.2020 07:23:26

64QAM



Date: 1.OCT.2020 07:22:52

256QAM

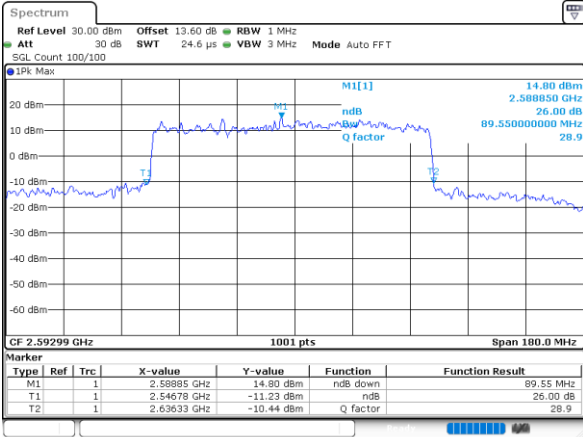


Date: 1.OCT.2020 07:22:24



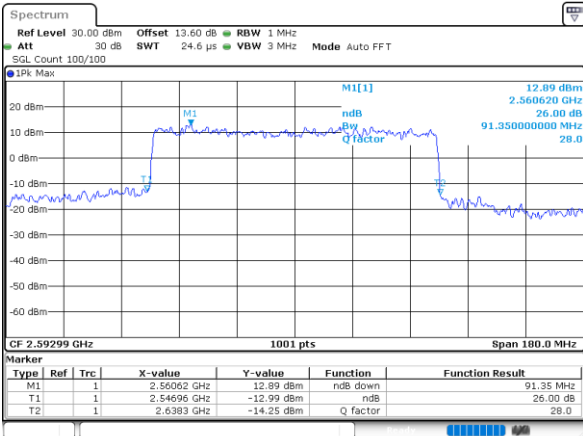
FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



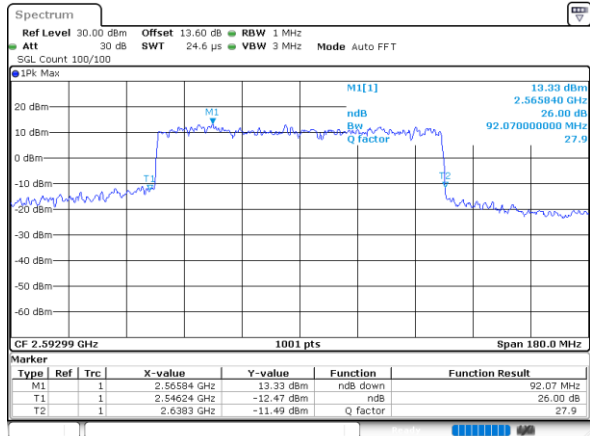
Date: 1.OCT.2020 07:13:029

QPSK



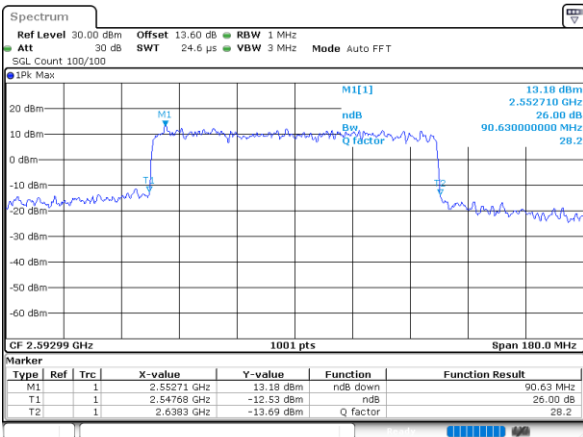
Date: 1.OCT.2020 07:13:146

16QAM



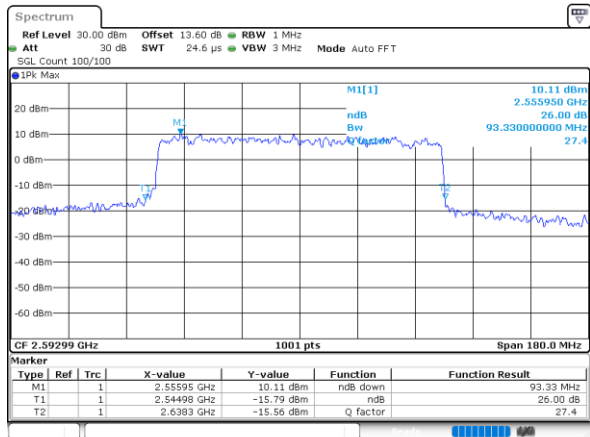
Date: 1.OCT.2020 07:13:31

64QAM



Date: 1.OCT.2020 07:13:400

256QAM

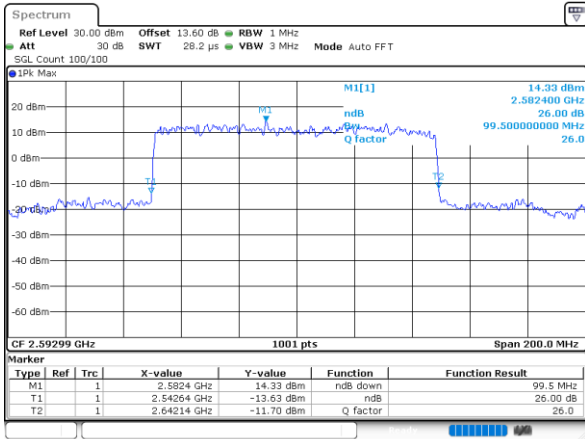


Date: 1.OCT.2020 07:13:428



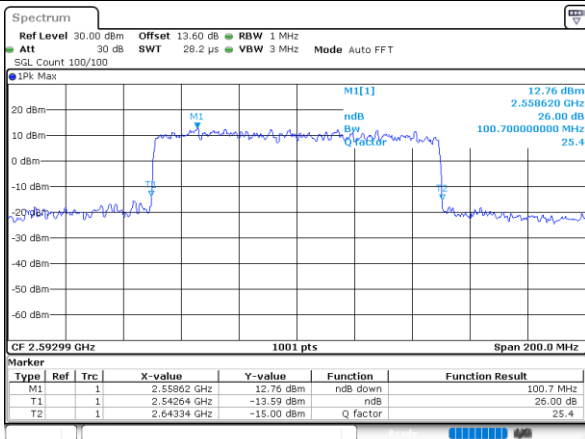
FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



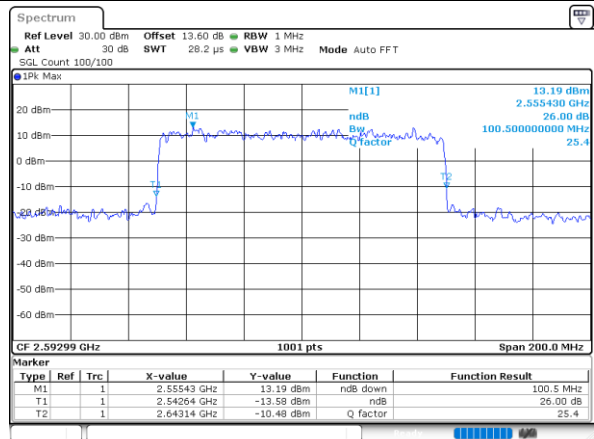
Date: 1.OCT.2020 07:33:58

QPSK



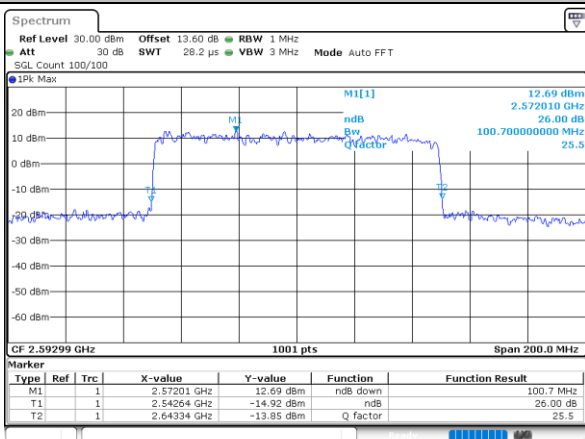
Date: 1.OCT.2020 07:38:05

16QAM



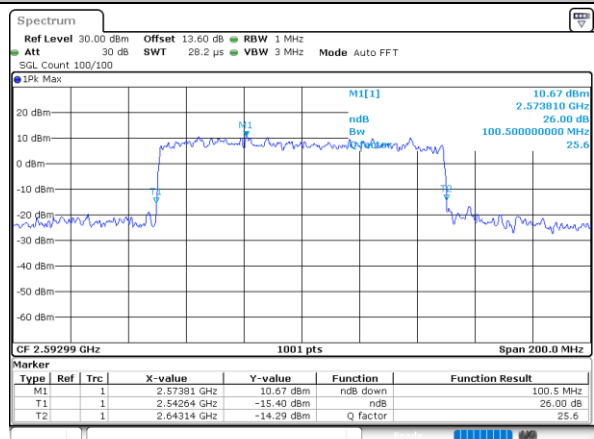
Date: 1.OCT.2020 07:37:32

64QAM



Date: 1.OCT.2020 07:36:49

256QAM



Date: 1.OCT.2020 07:36:05



Occupied Bandwidth

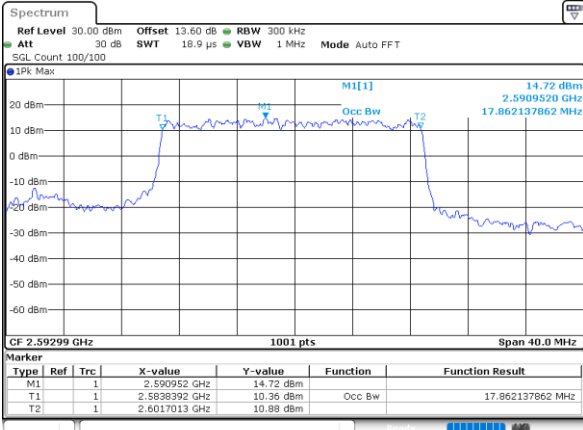
Mode	FR1 n41 : OB BW(MHz) / DFT-S OFDM							
BW	20MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz	
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	
Middle CH	17.86	36.04	46.05	58.14	77.52	85.41	96.10	

Mode	FR1 n41 : OB BW(MHz) / CP OFDM							
BW	20MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.22	18.22	38.12	38.20	47.95	47.75	58.02	58.02
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	18.22	18.22	38.04	37.96	47.95	47.65	57.90	58.02
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	77.68	77.68	87.39	87.57	97.50	97.10		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	77.68	77.52	87.39	87.75	97.10	97.30		

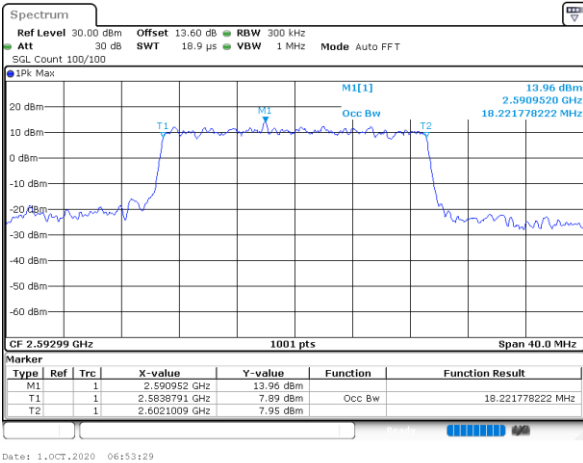


FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel

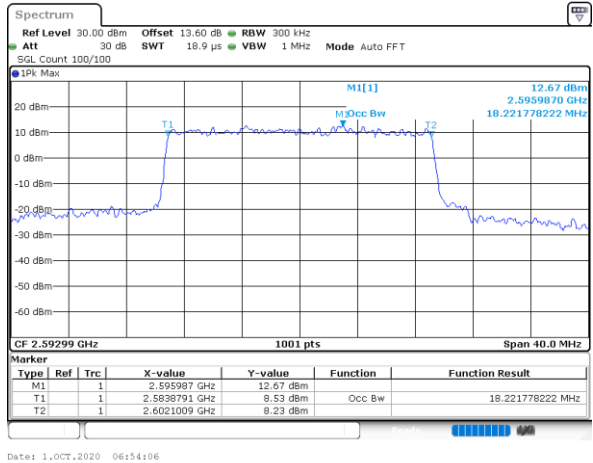
PI/2 BPSK



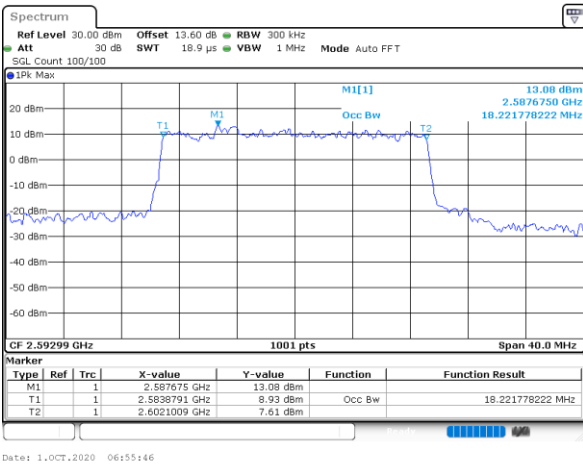
QPSK



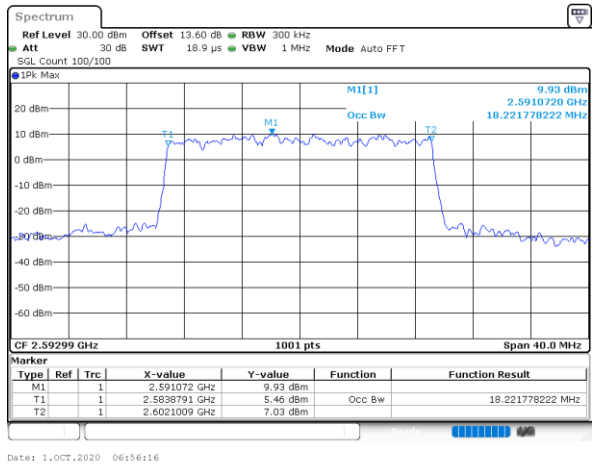
16QAM



64QAM



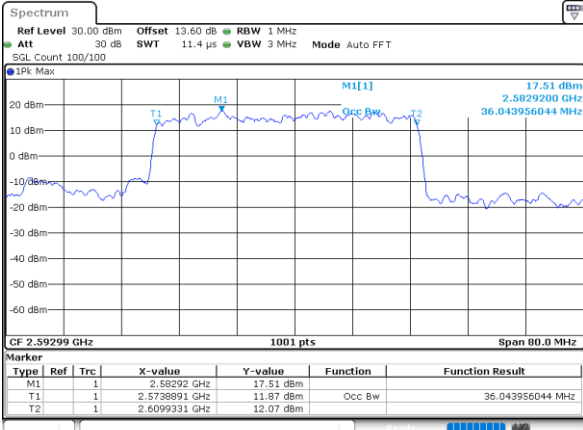
256QAM





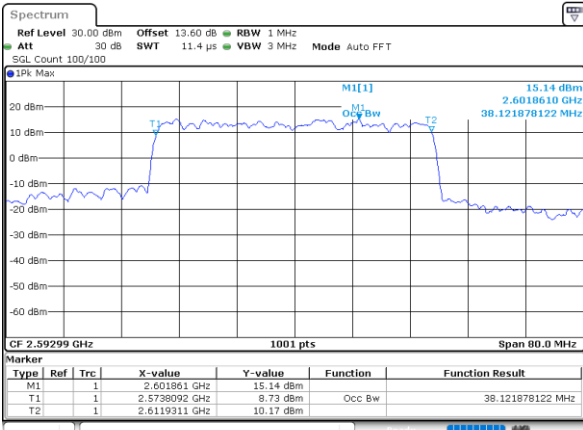
FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



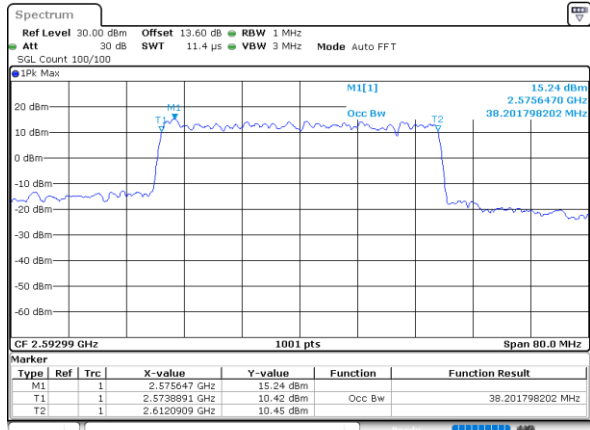
Date: 1.OCT.2020 07:02:48

QPSK



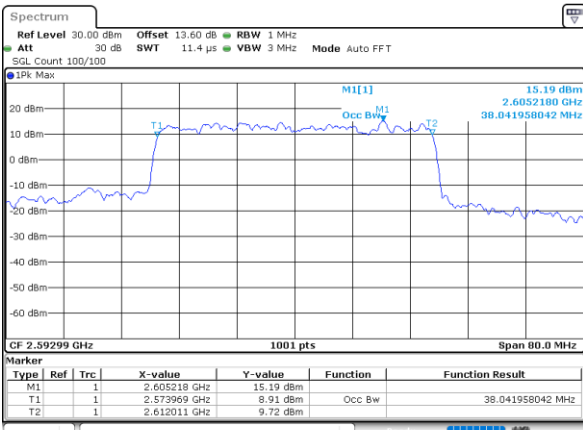
Date: 1.OCT.2020 07:04:20

16QAM



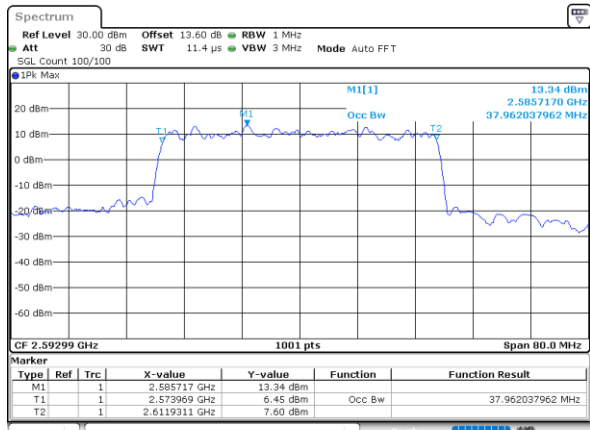
Date: 1.OCT.2020 07:04:59

64QAM



Date: 1.OCT.2020 07:05:47

256QAM

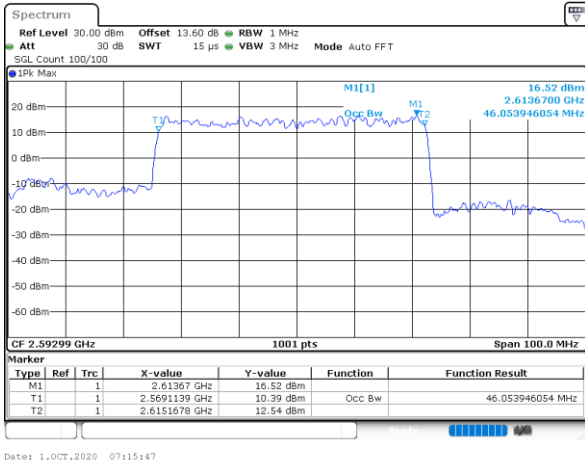


Date: 1.OCT.2020 07:06:43

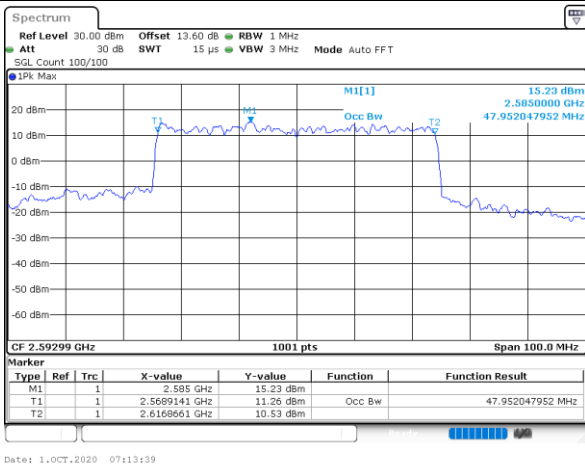


FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel

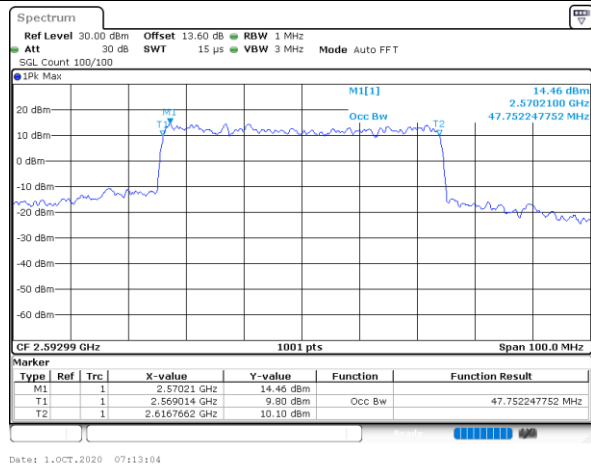
PI/2 BPSK



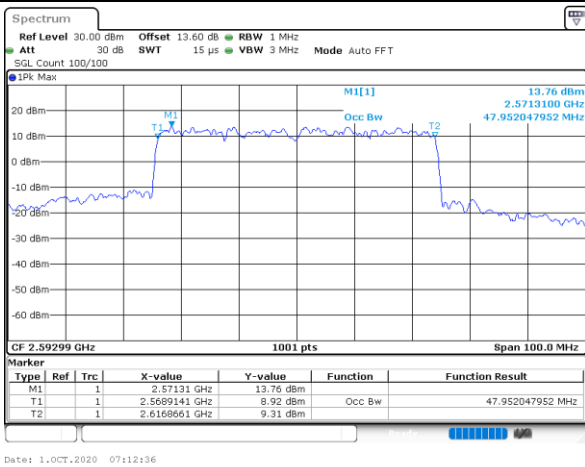
QPSK



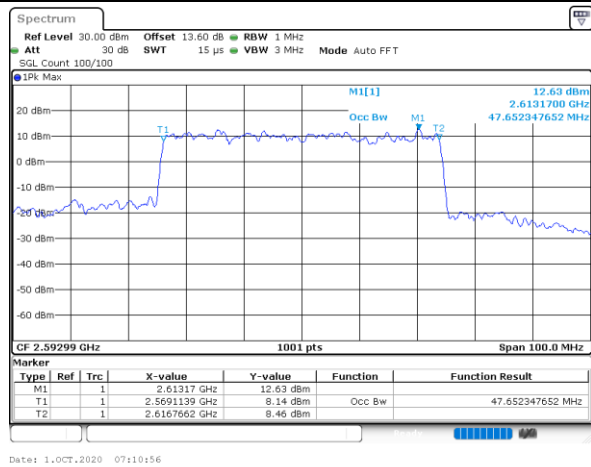
16QAM



64QAM



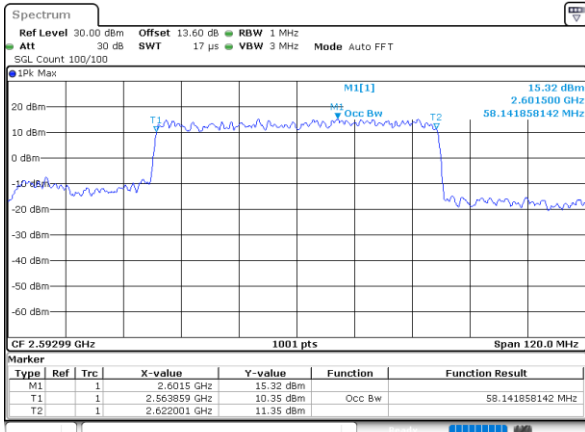
256QAM





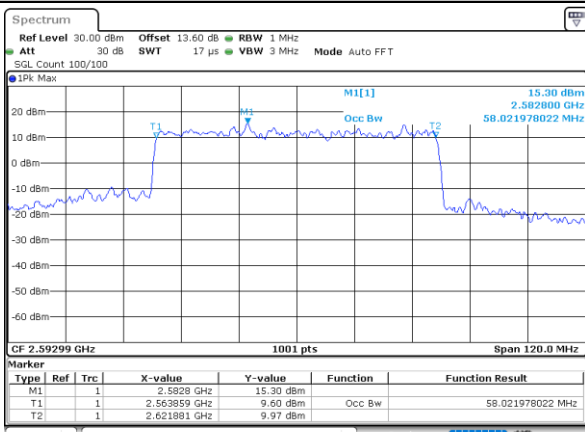
FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



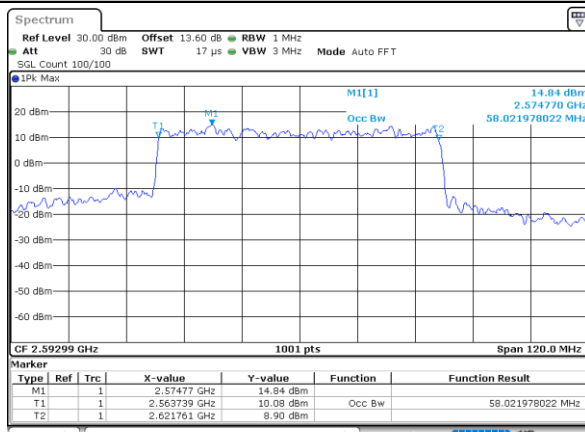
Date: 1.OCT.2020 07:17:13

QPSK



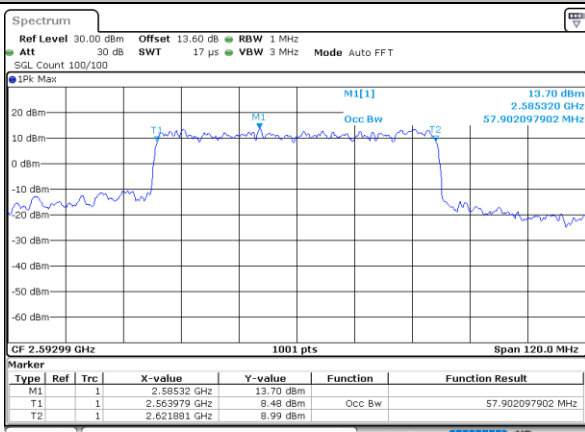
Date: 1.OCT.2020 07:19:08

16QAM



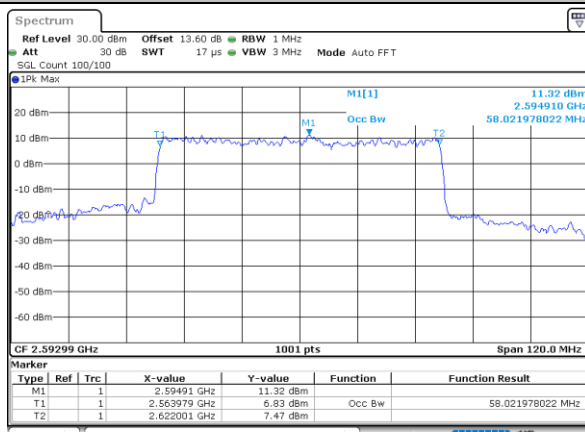
Date: 1.OCT.2020 07:19:41

64QAM



Date: 1.OCT.2020 07:20:05

256QAM

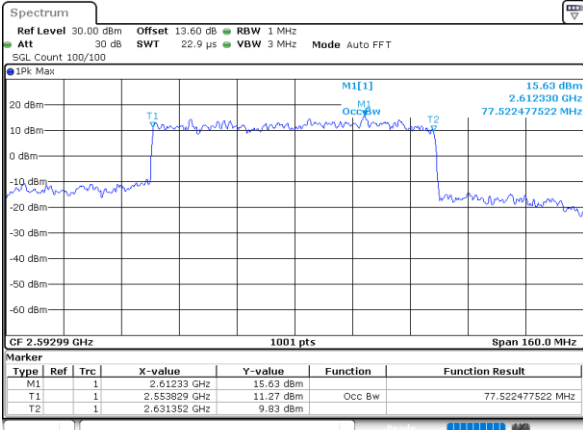


Date: 1.OCT.2020 07:20:54



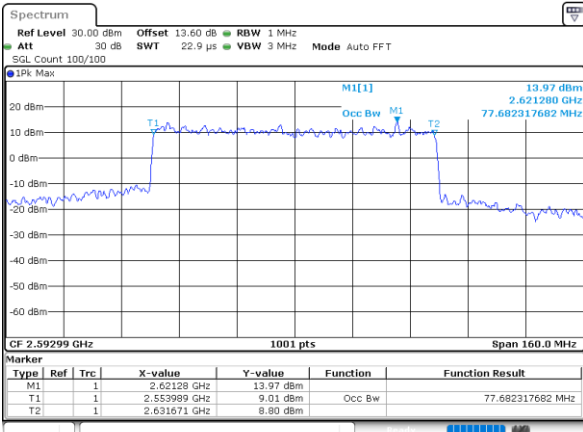
FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



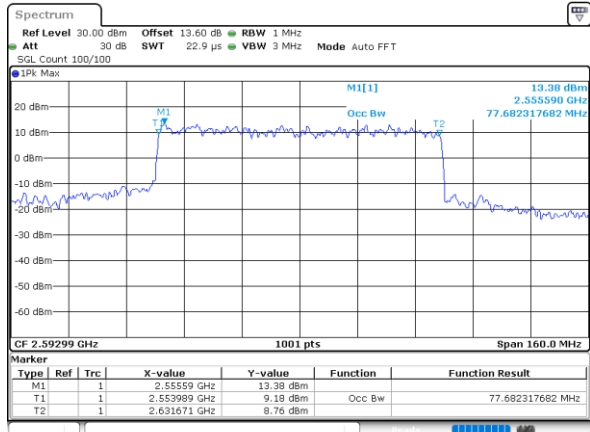
Date: 1.OCT.2020 07:25:52

QPSK



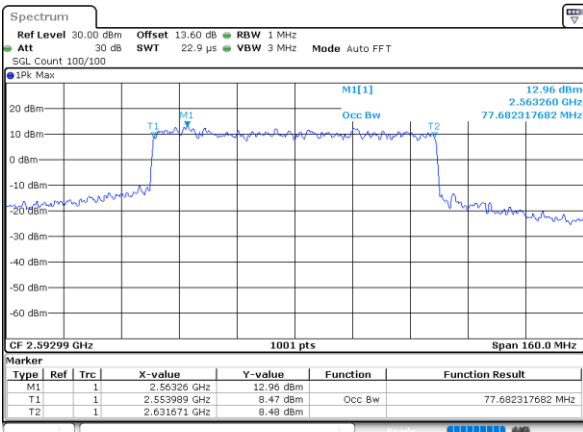
Date: 1.OCT.2020 07:23:49

16QAM



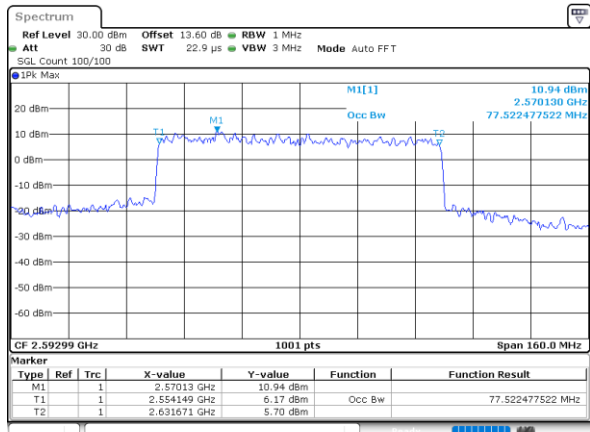
Date: 1.OCT.2020 07:23:18

64QAM



Date: 1.OCT.2020 07:22:43

256QAM

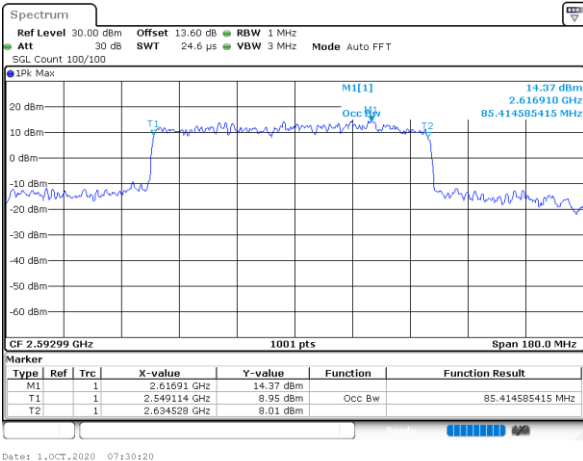


Date: 1.OCT.2020 07:22:15



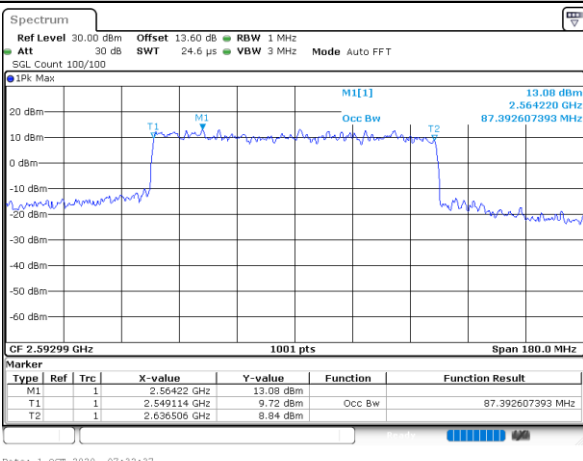
FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



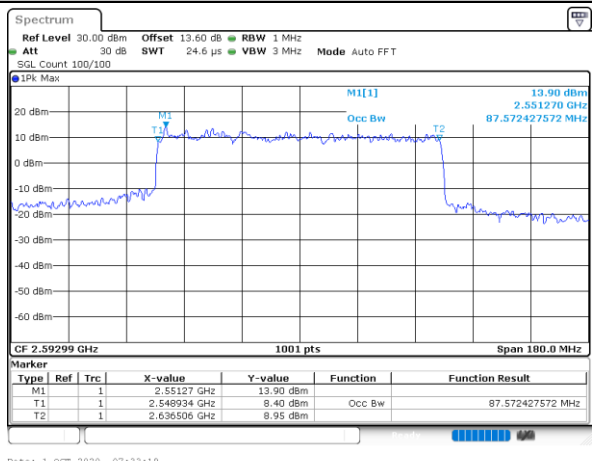
Date: 1.OCT.2020 07:30:20

QPSK



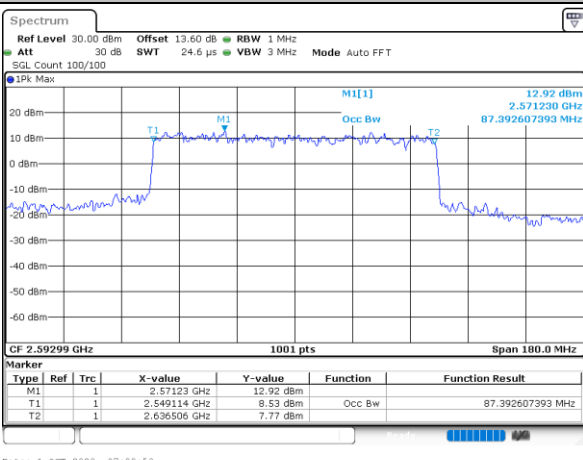
Date: 1.OCT.2020 07:32:17

16QAM



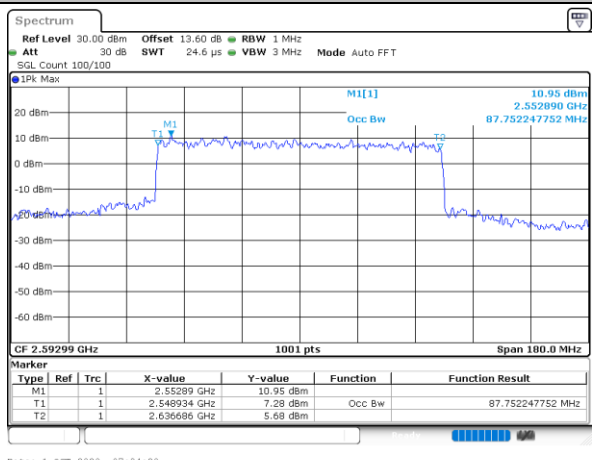
Date: 1.OCT.2020 07:33:19

64QAM



Date: 1.OCT.2020 07:33:50

256QAM

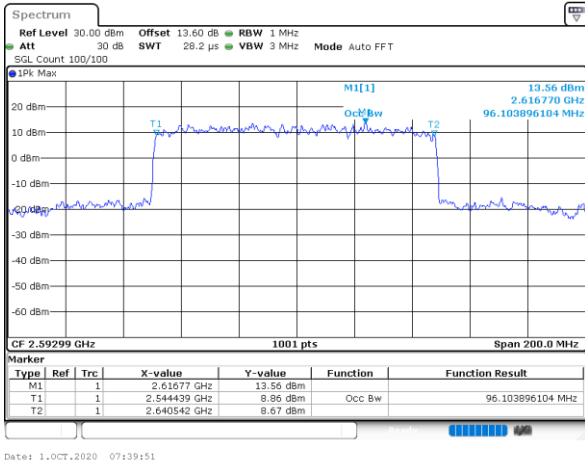


Date: 1.OCT.2020 07:34:20

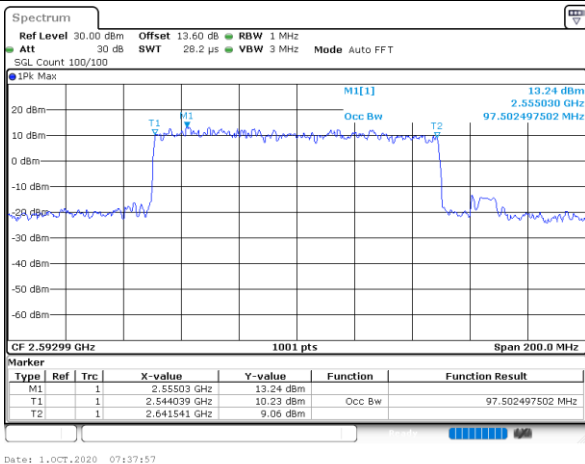


FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel

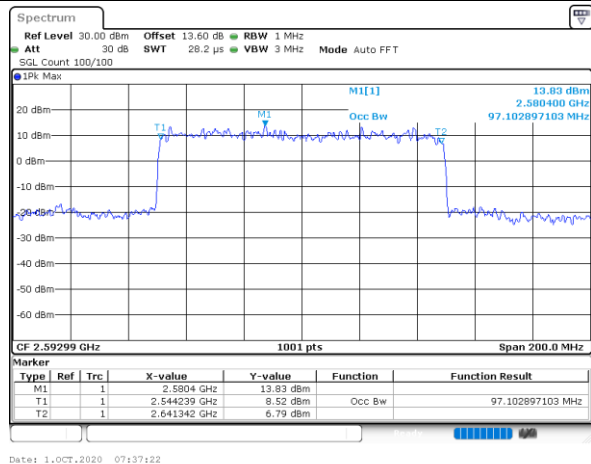
PI/2 BPSK



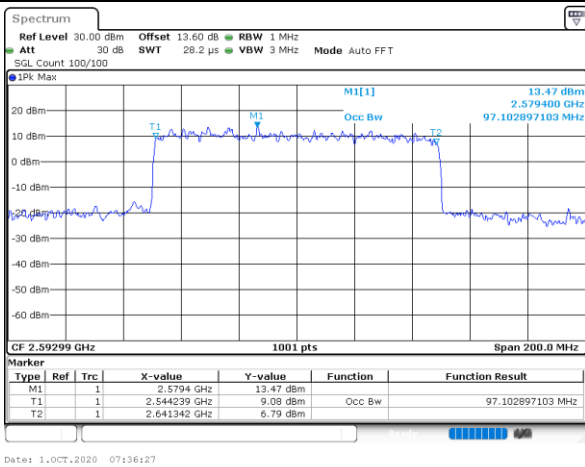
QPSK



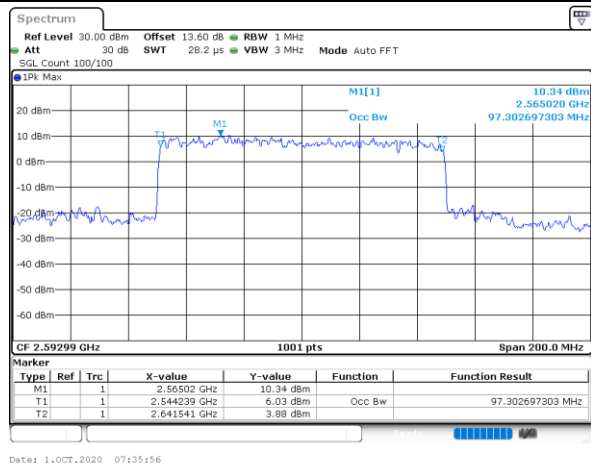
16QAM



64QAM



256QAM



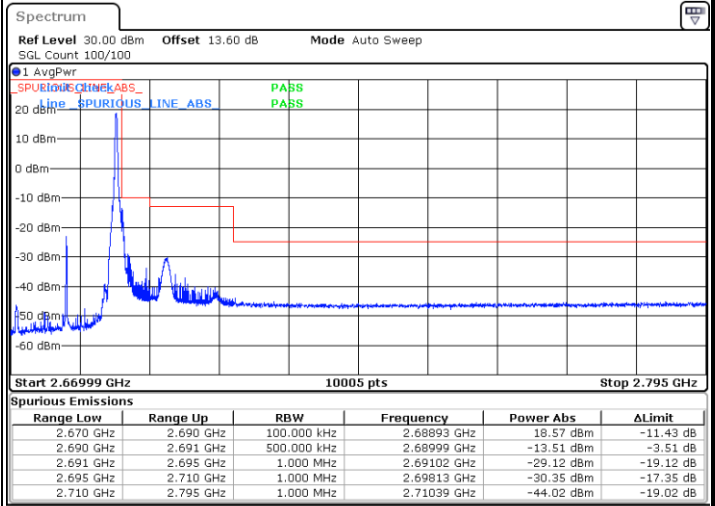
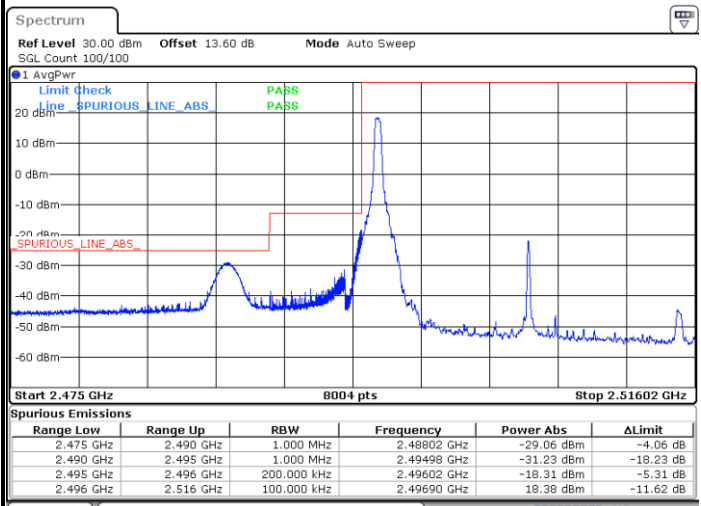


Conducted Band Edge

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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

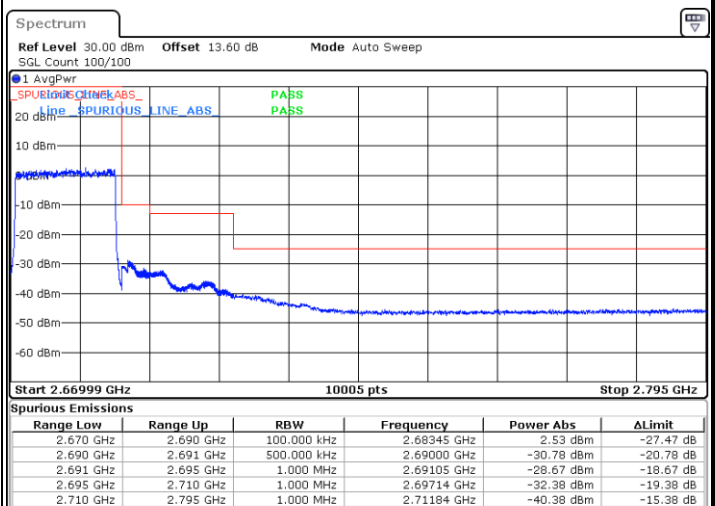
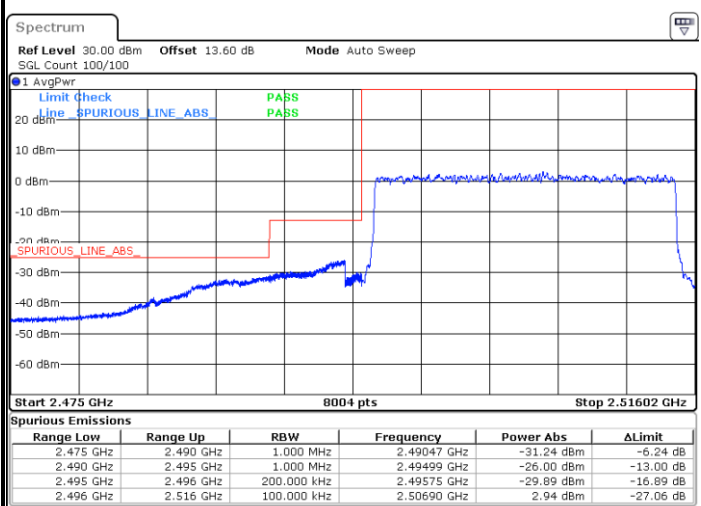


Date: 1.OCT.2020 11:07:14

Date: 1.OCT.2020 11:34:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.OCT.2020 11:09:31

Date: 1.OCT.2020 11:33:59