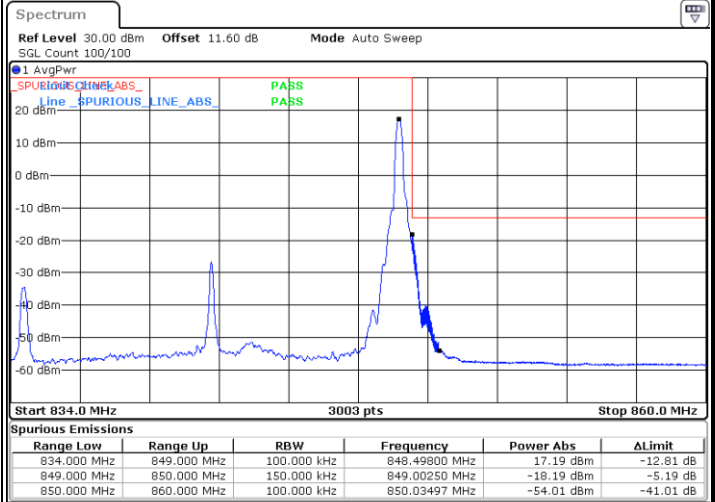
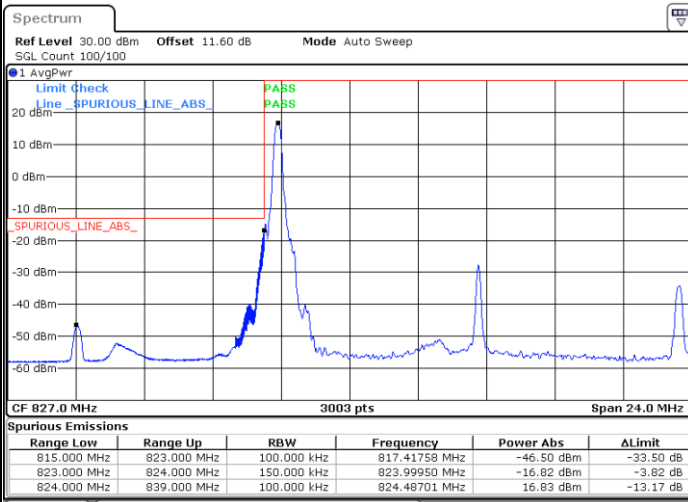




FR1 n5 / 15MHz / DFT-s-OFDM / 256QAM

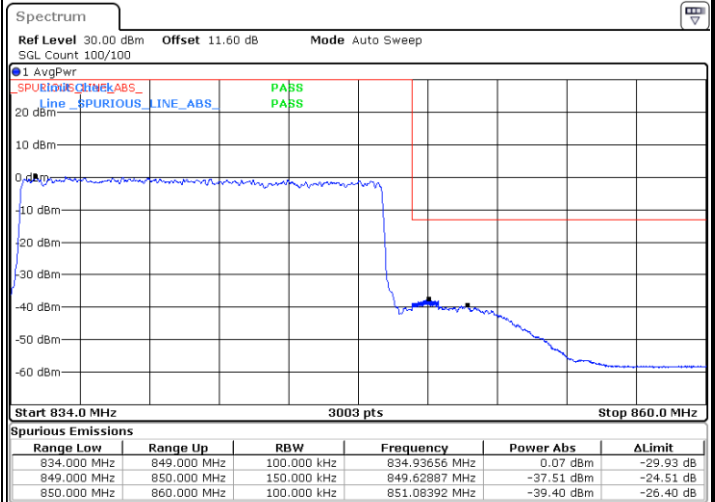
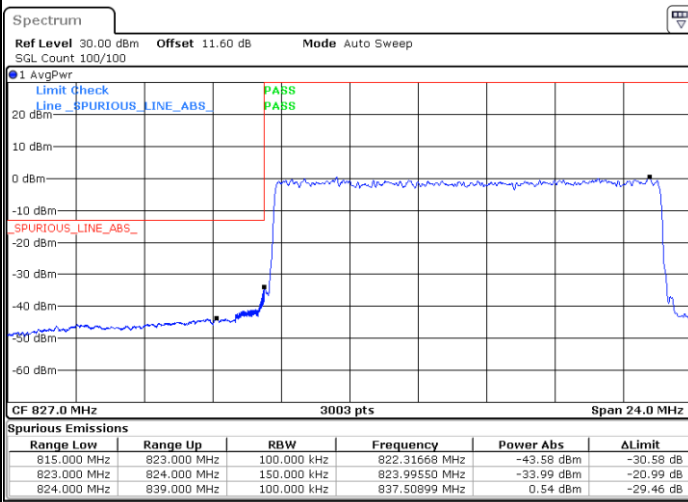
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

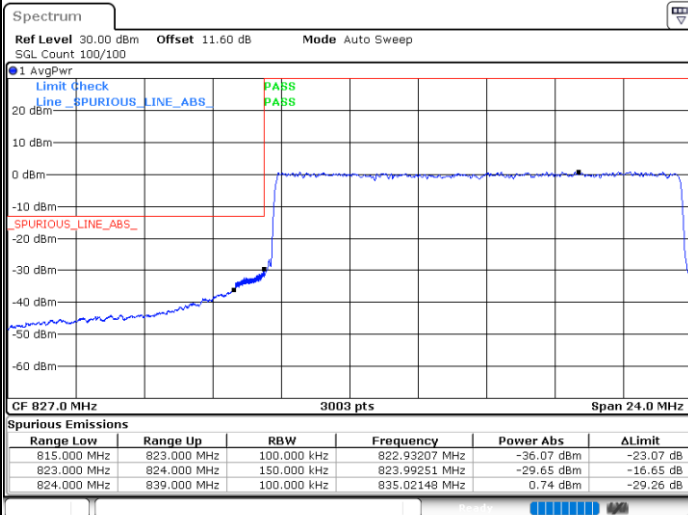




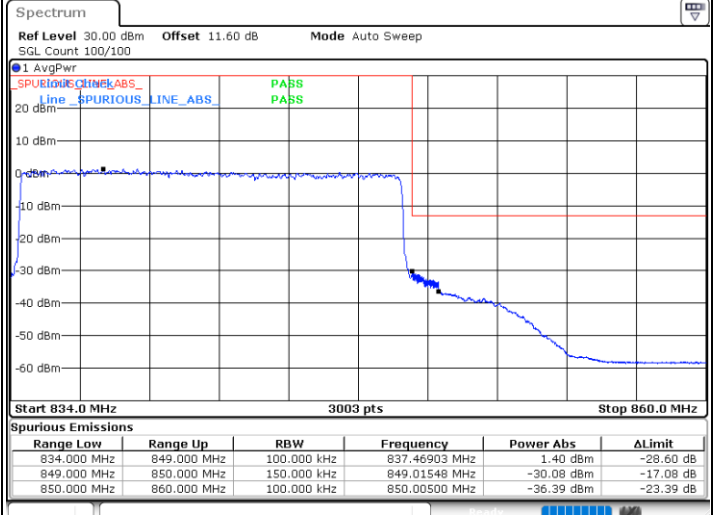
FR1 n5 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



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



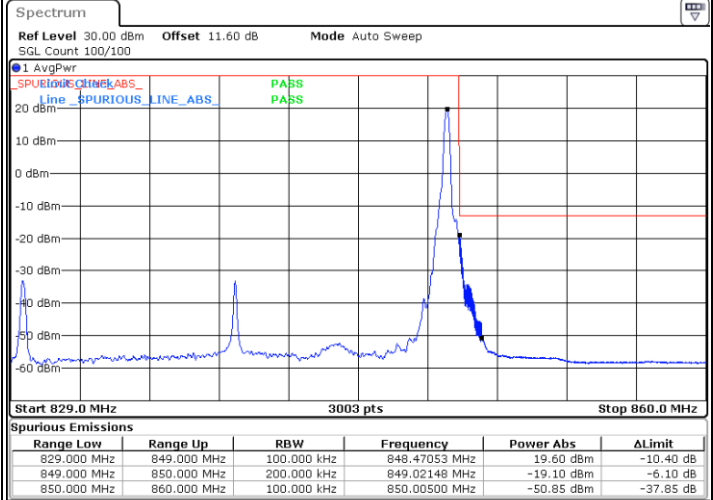
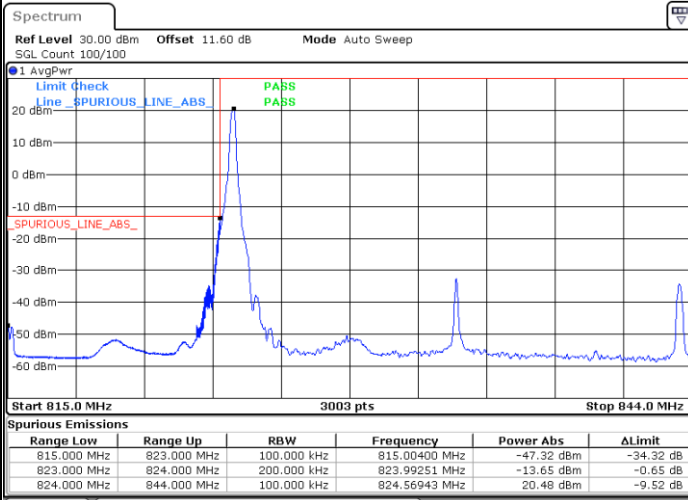
Date: 16.OCT.2020 14:07:48



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

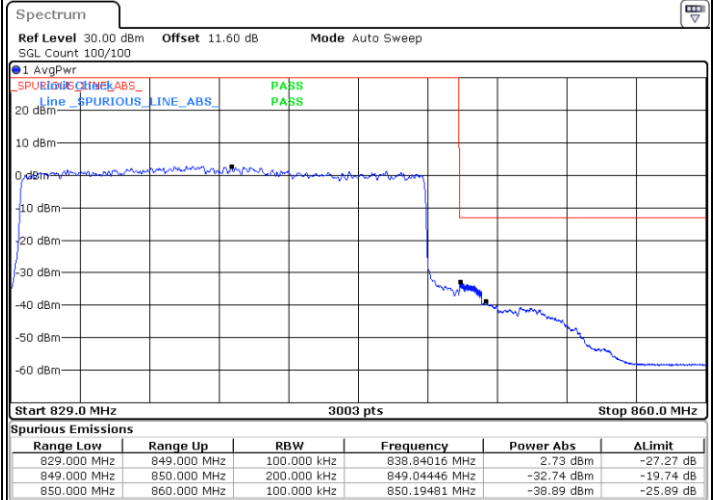
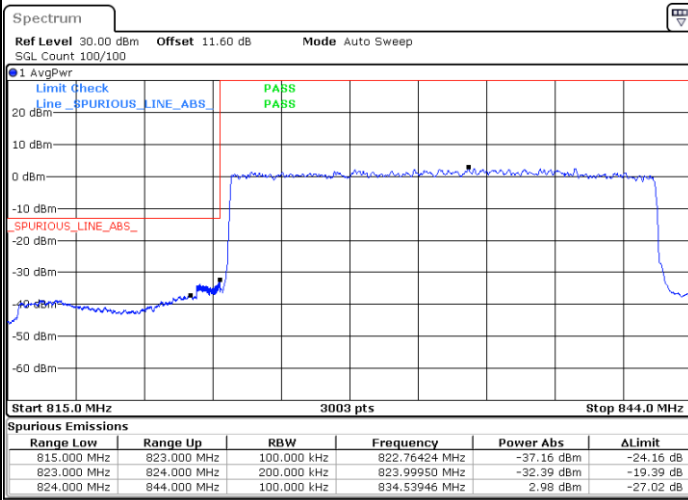
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

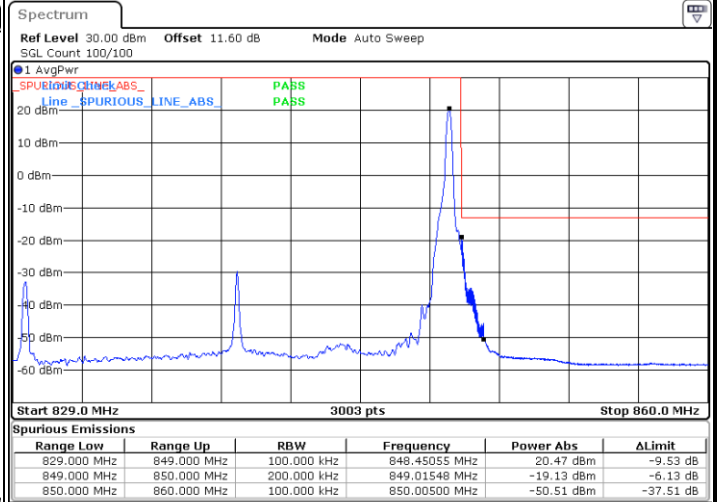
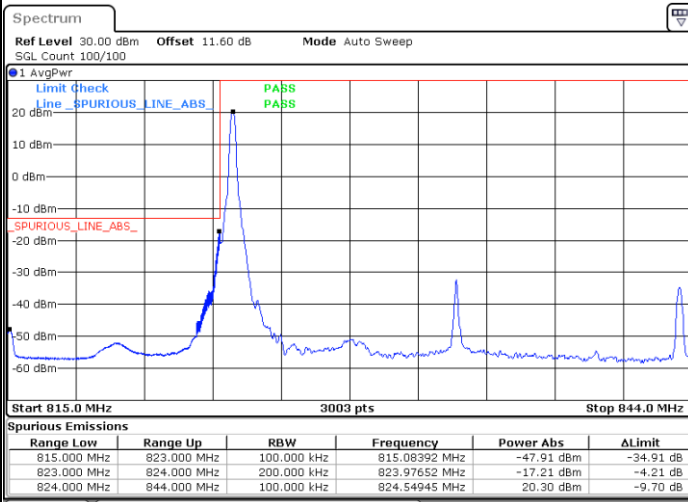




FR1 n5 / 20MHz / DFT-s-OFDM / QPSK

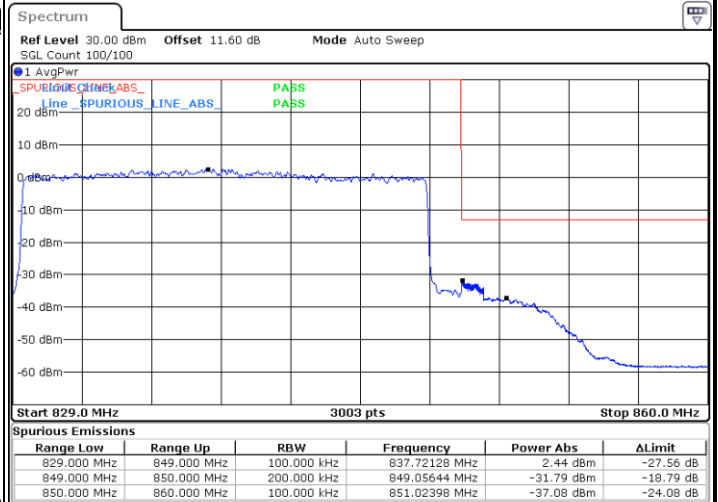
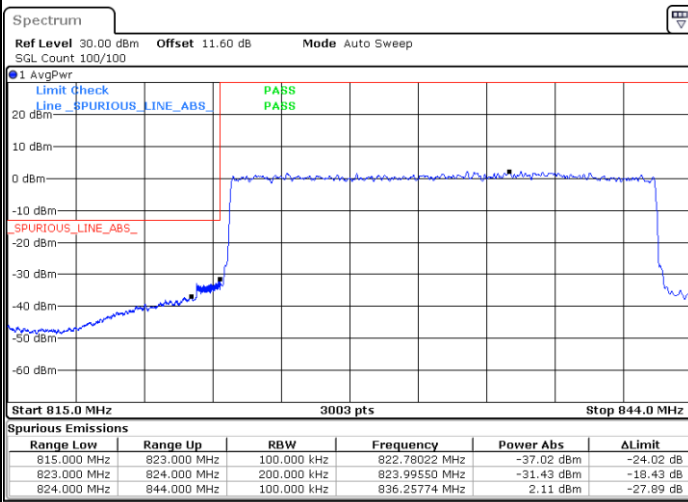
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

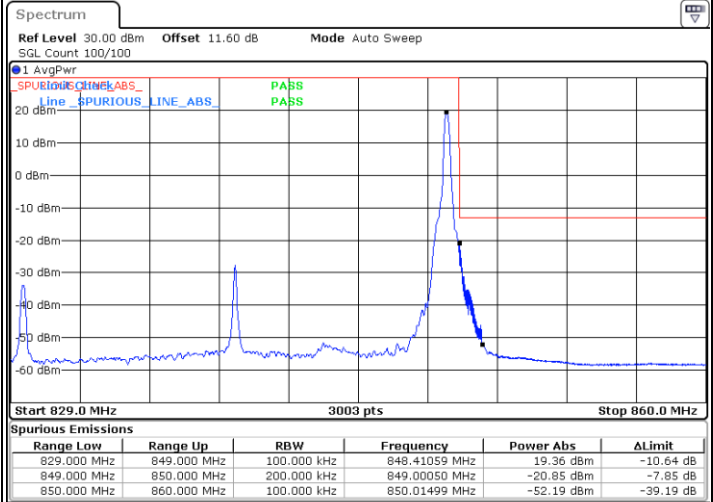
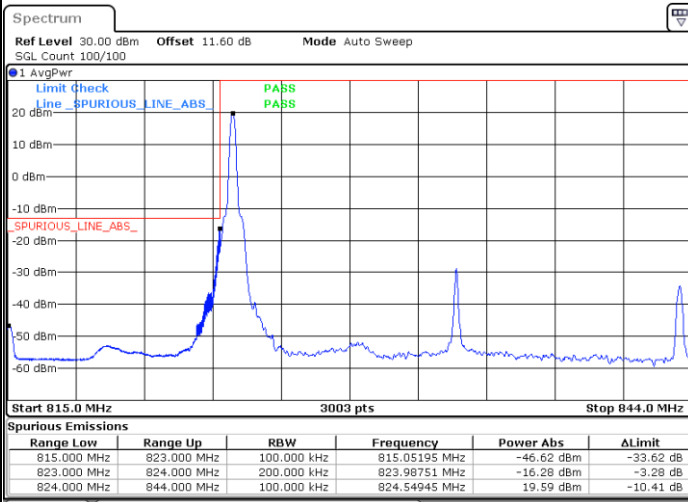




FR1 n5 / 20MHz / DFT-s-OFDM / 16QAM

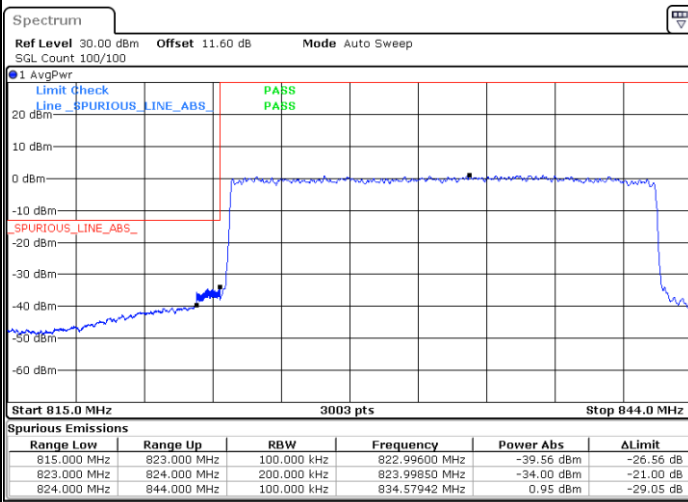
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

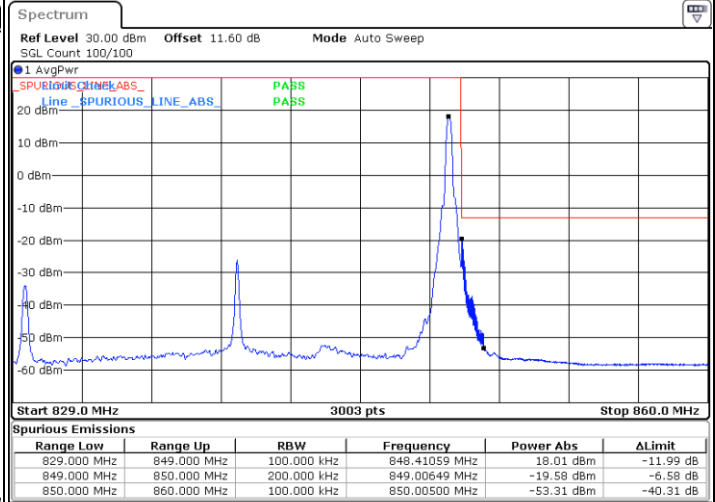
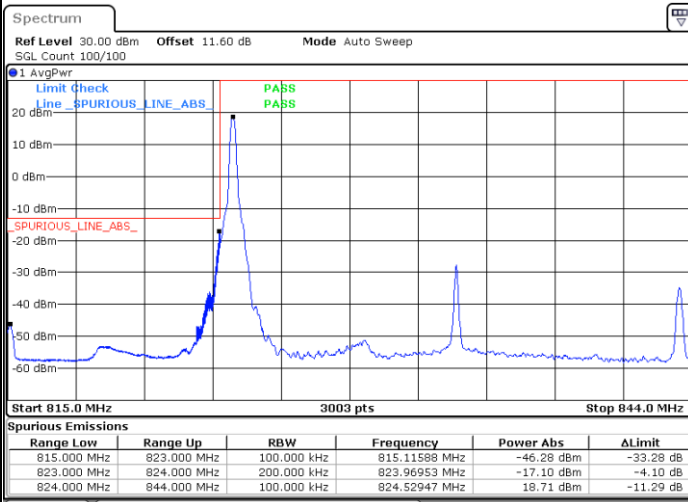




FR1 n5 / 20MHz / DFT-s-OFDM / 64QAM

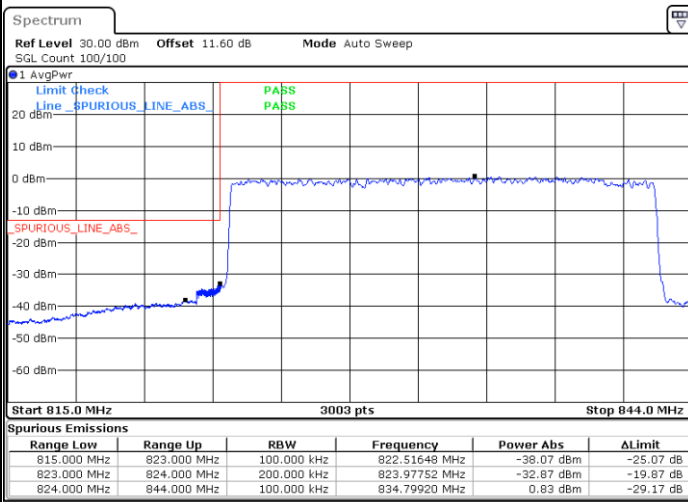
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

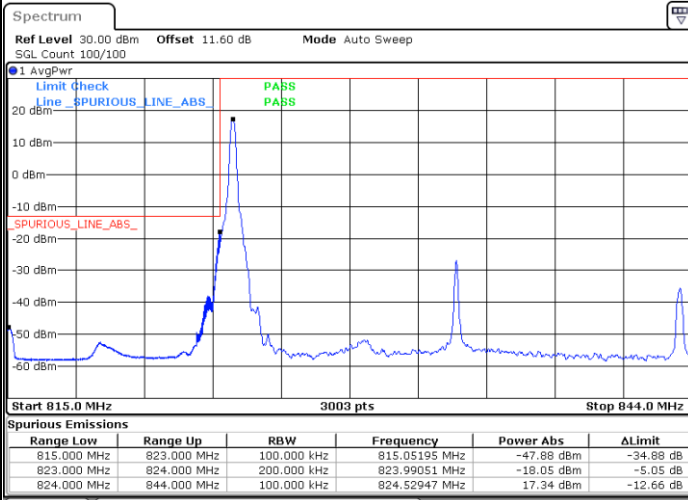




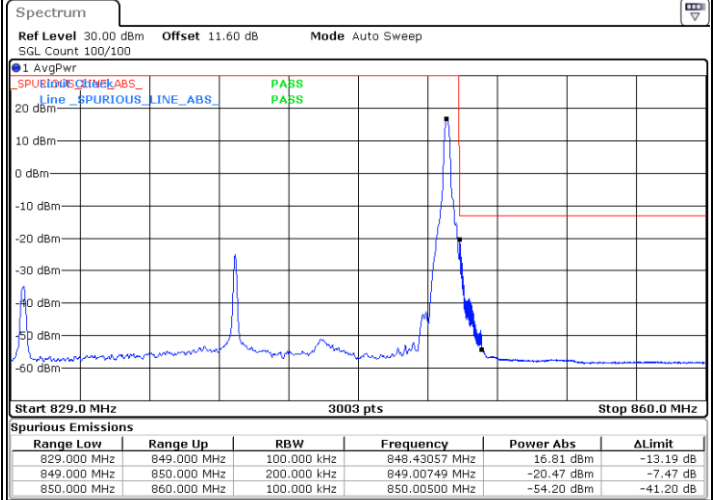
FR1 n5 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



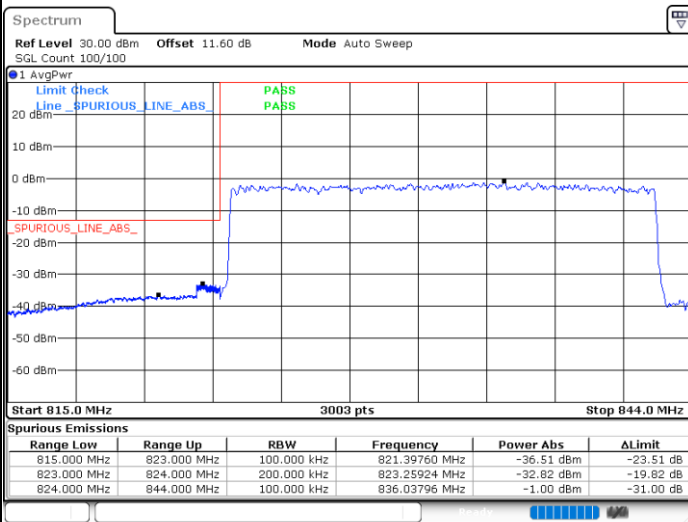
Date: 16.OCT.2020 11:29:56



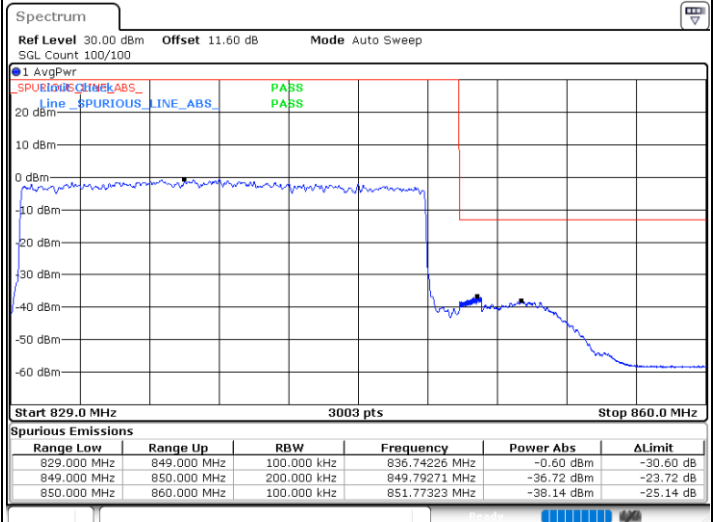
Date: 16.OCT.2020 11:51:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 11:30:32



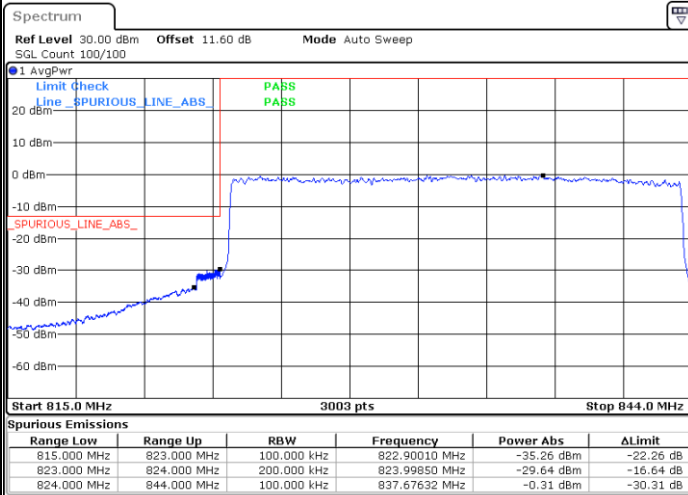
Date: 16.OCT.2020 11:50:53



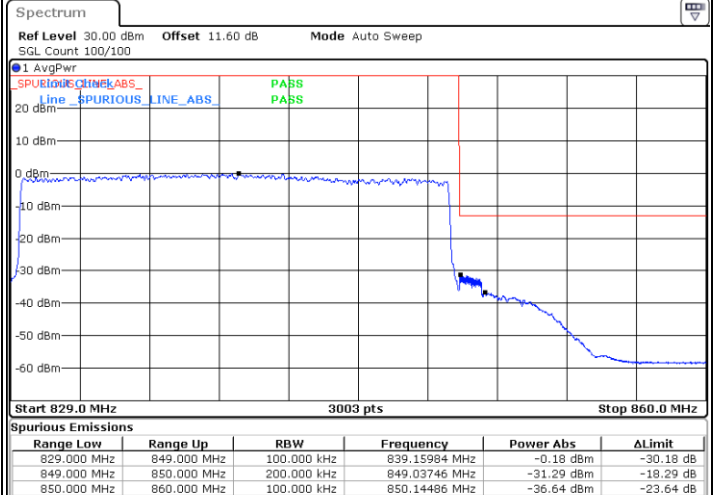
FR1 n5 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 16.OCT.2020 11:36:39



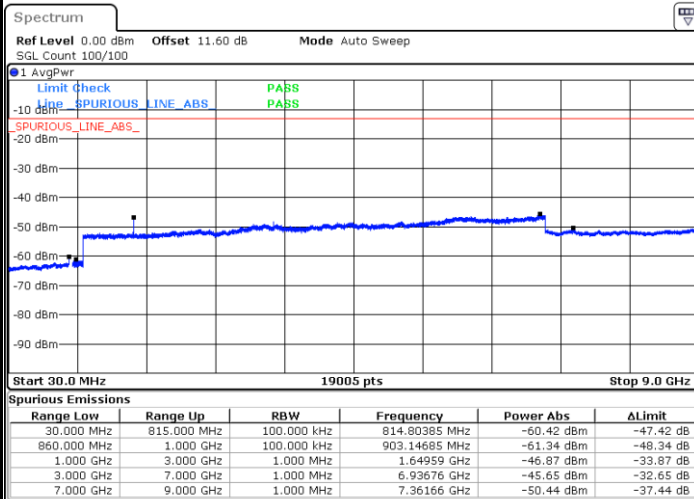
Date: 16.OCT.2020 11:46:51



Conducted Spurious Emission

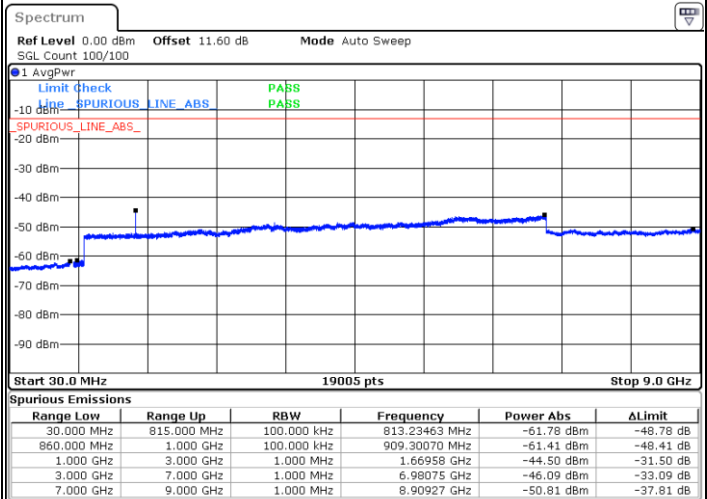
FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



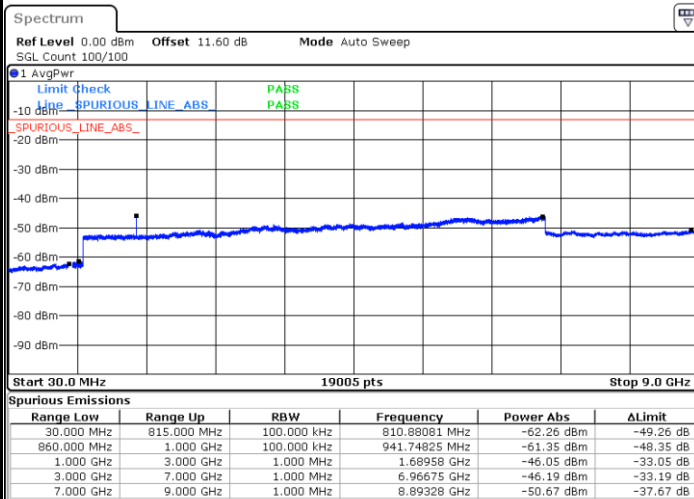
Date: 16.OCT.2020 14:59:03

Middle Channel / 1RB1



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

Highest Channel / 1RB1

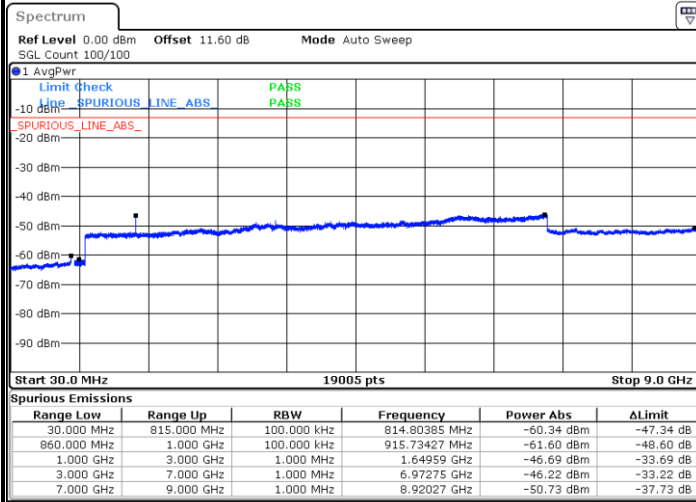


Date: 16.OCT.2020 15:09:02



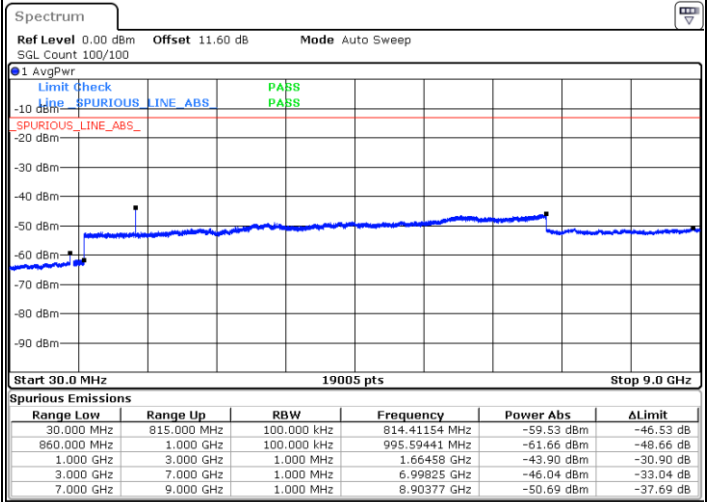
FR1 n5 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



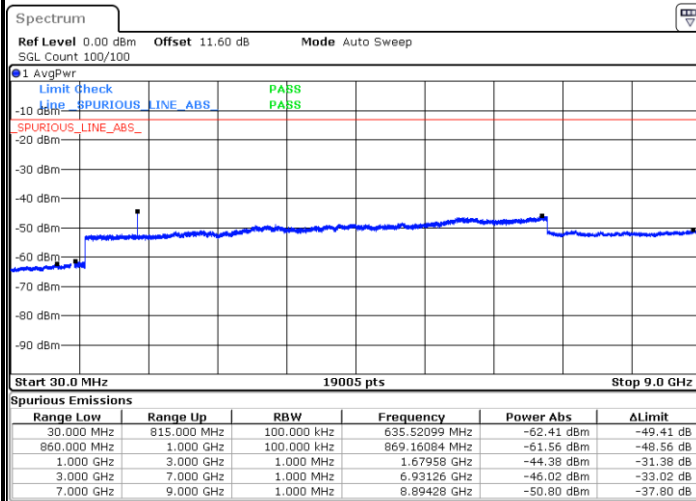
Date: 16.OCT.2020 14:23:53

Middle Channel / 1RB1



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

Highest Channel / 1RB1

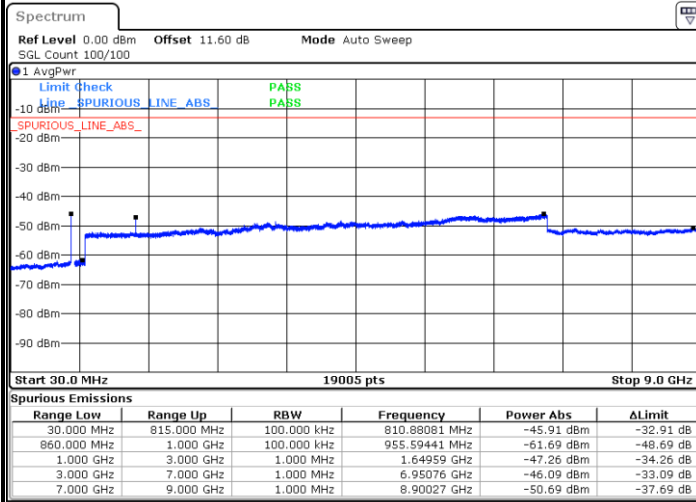


Date: 16.OCT.2020 14:40:23



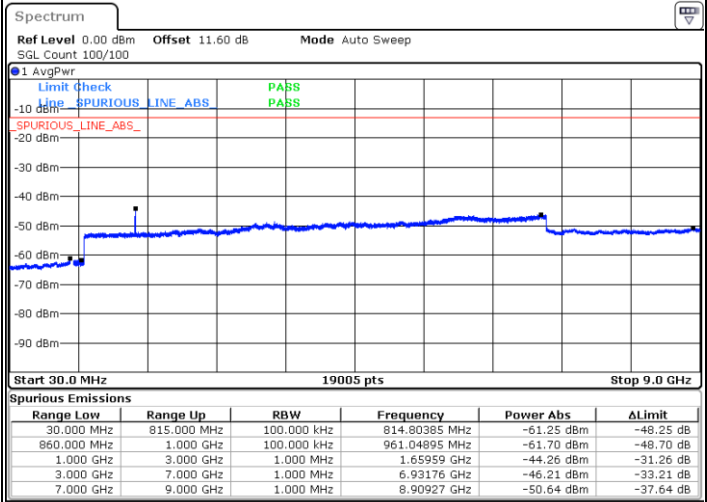
FR1 n5 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



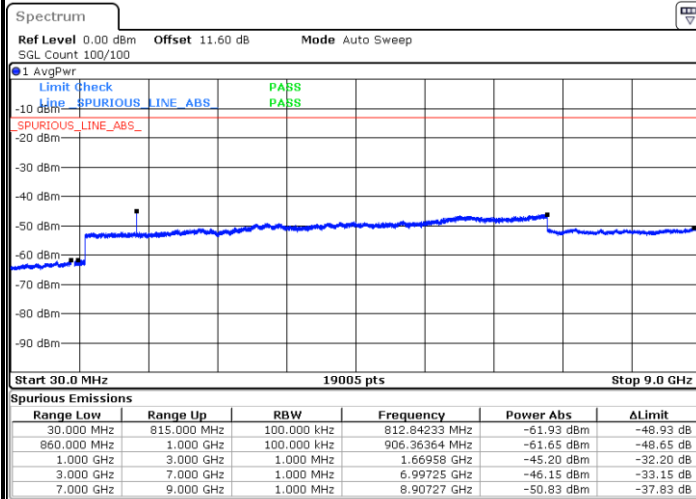
Date: 16.OCT.2020 13:39:44

Middle Channel / 1RB1



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

Highest Channel / 1RB1

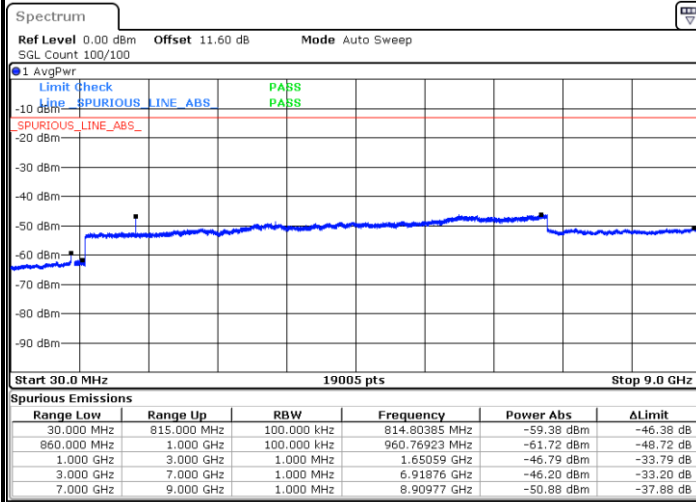


Date: 16.OCT.2020 13:59:27



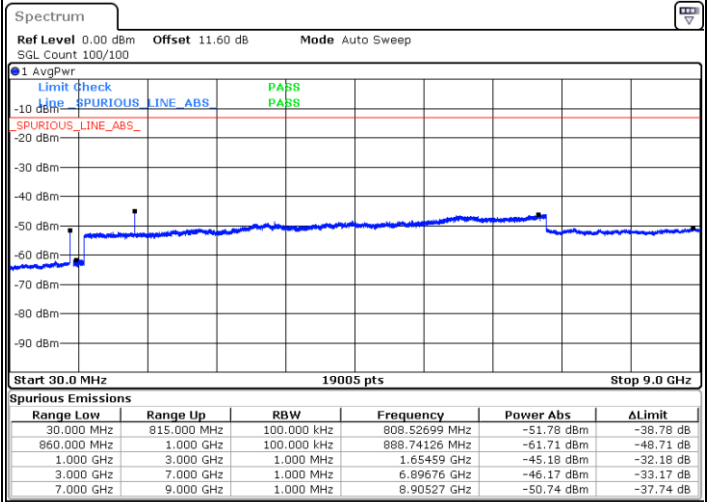
FR1 n5 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



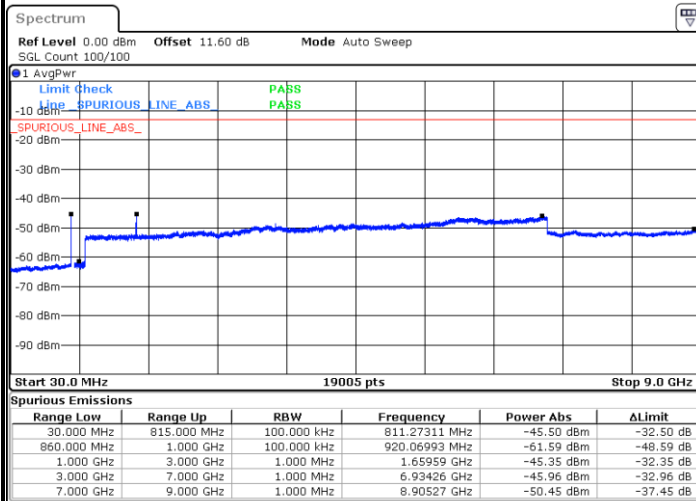
Date: 16.OCT.2020 11:38:12

Middle Channel / 1RB1



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:

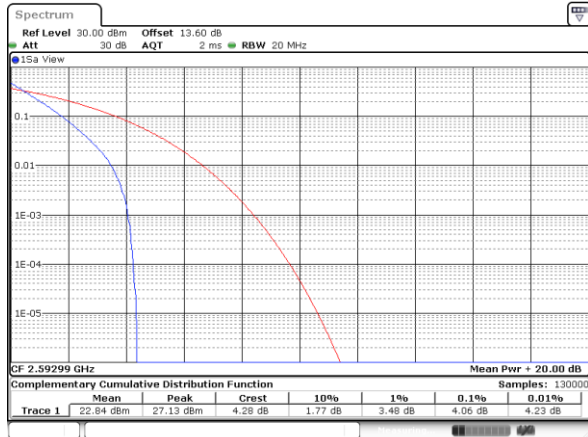
1. Normal Voltage =3.80 V. ; Battery End Point (BEP) =3.30 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n41****Peak-to-Average Ratio**

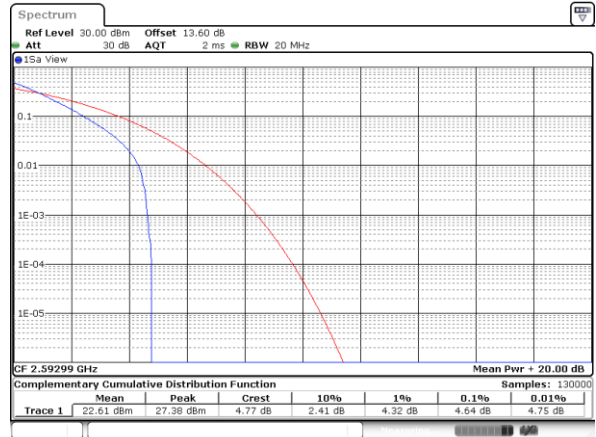
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.06	4.64	5.97	6.49	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	7.07				PASS

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

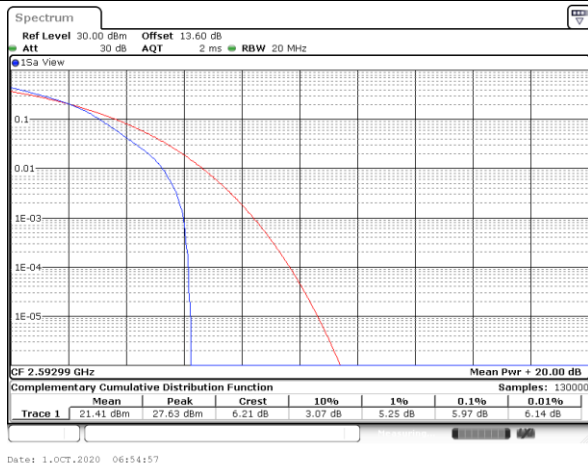
PI/2 BPSK



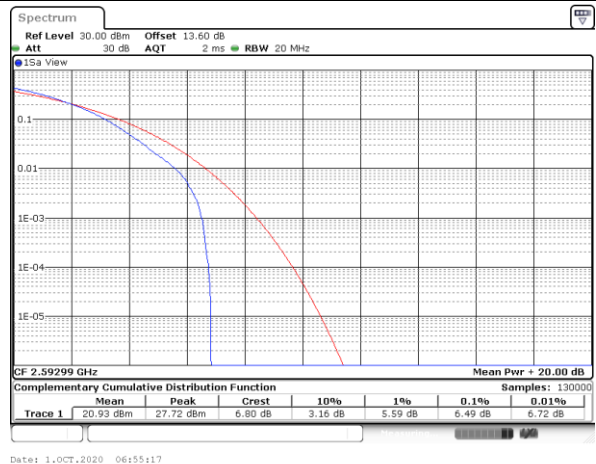
QPSK



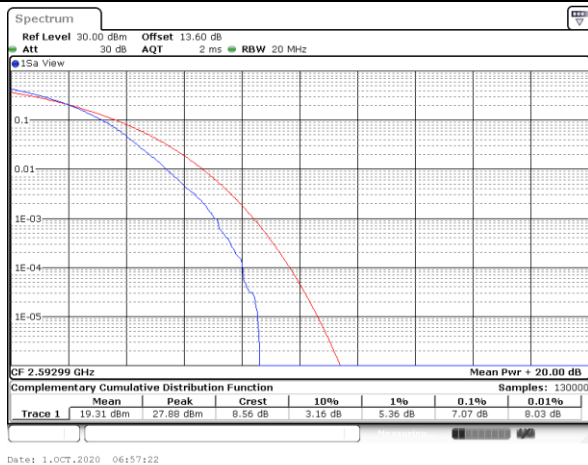
16QAM



64QAM



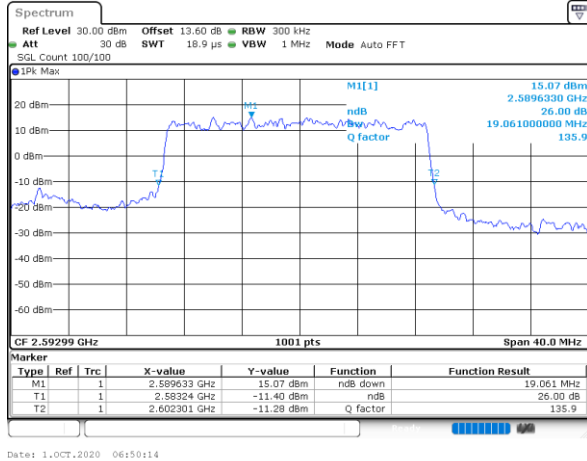
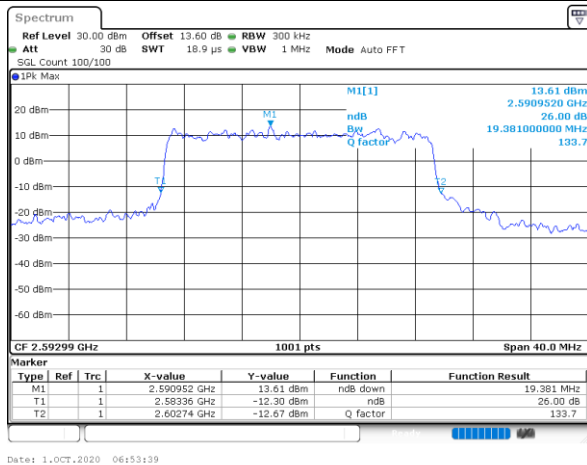
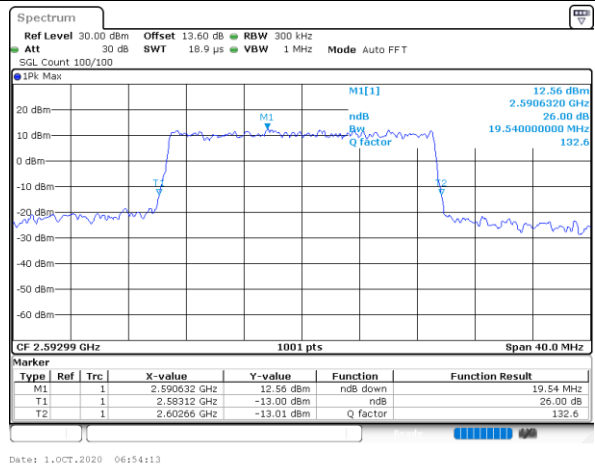
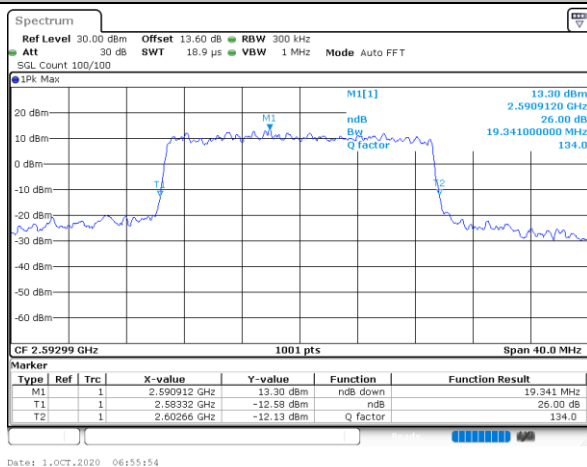
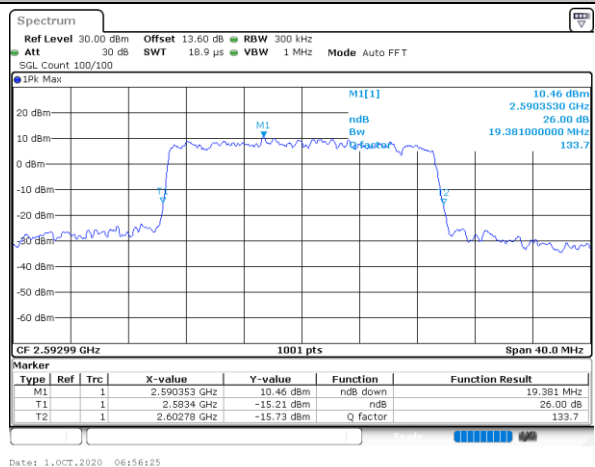
256QAM



**26dB Bandwidth**

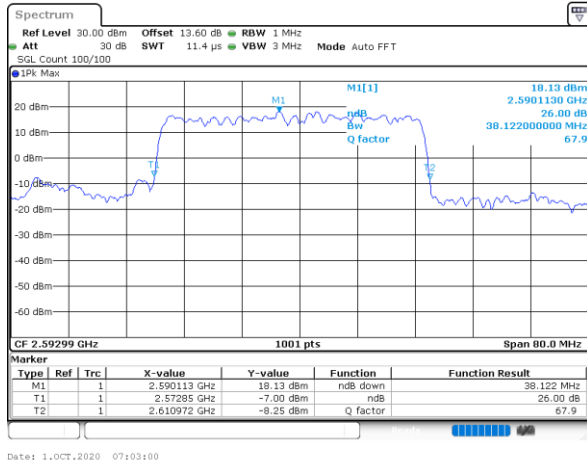
Mode	FR1 n41 : 26dB BW(MHz) / DFT-S OFDM							
BW	20MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz	
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	
Middle CH	19.06	38.12	48.35	61.14	84.24	89.55	99.50	

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

FR1 n41 / 20MHz / CP OFDM
QPSK

16QAM

64QAM

256QAM


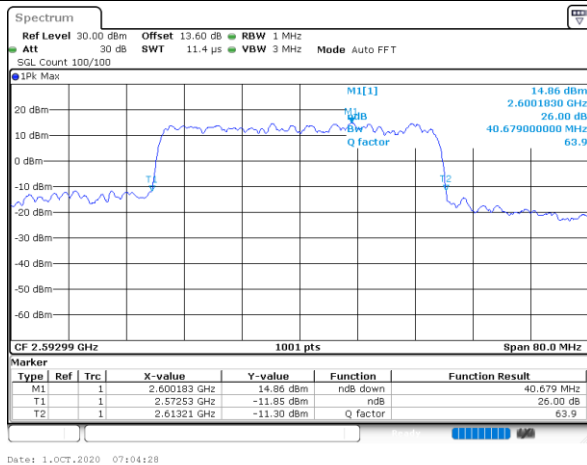
FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



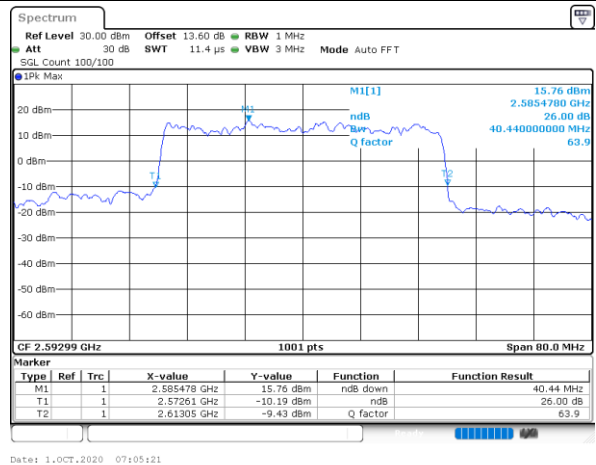
QPSK

Middle Channel

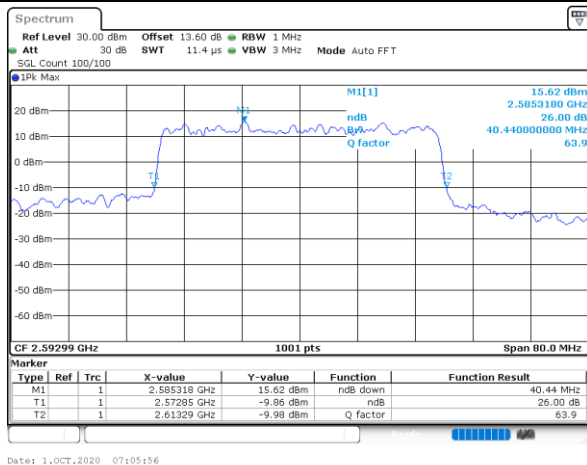


16QAM

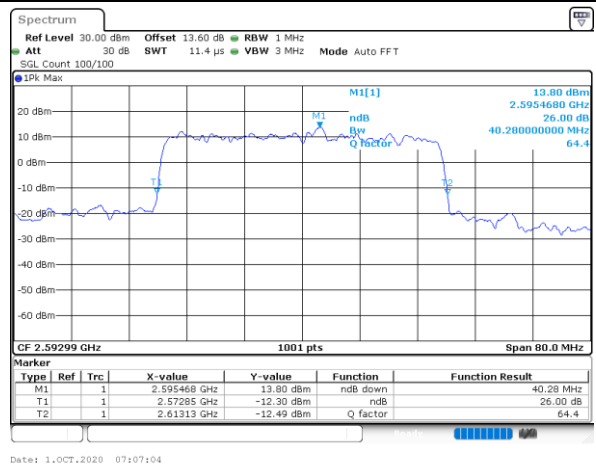
Middle Channel



64QAM

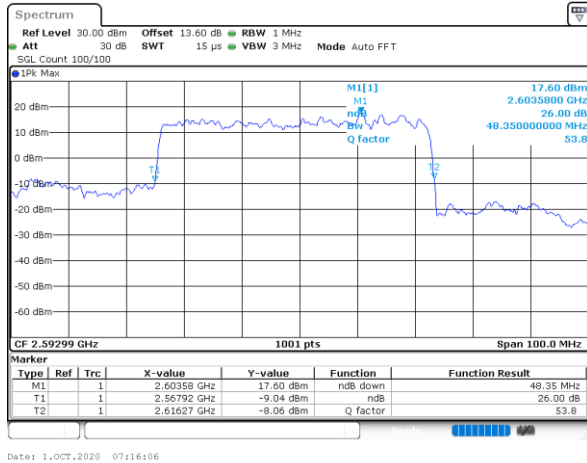


256QAM

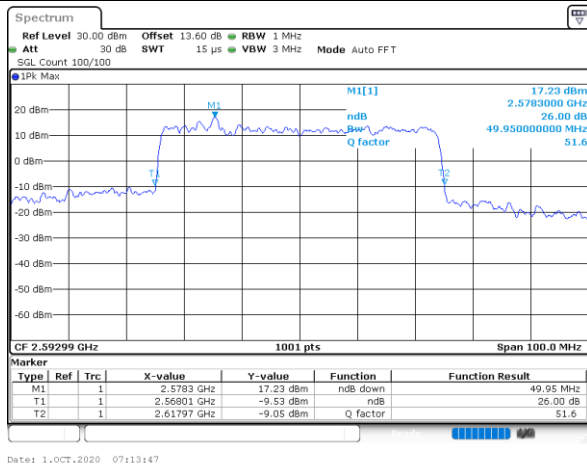


FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel

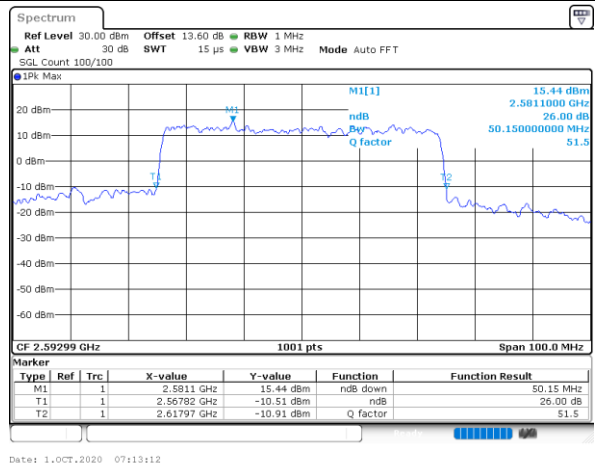
PI/2 BPSK



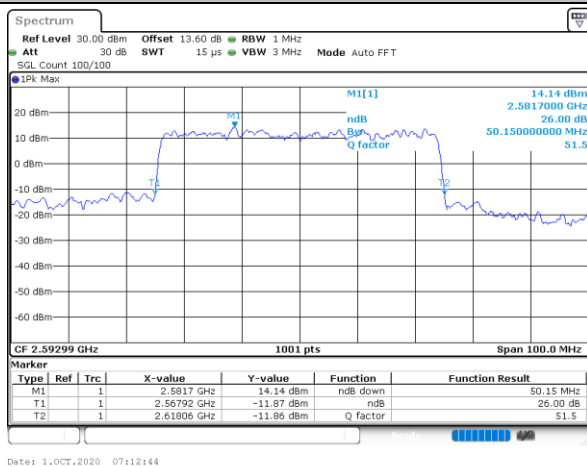
QPSK



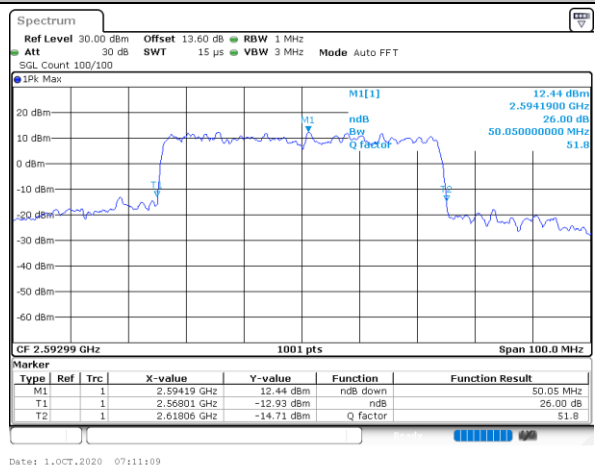
16QAM



64QAM

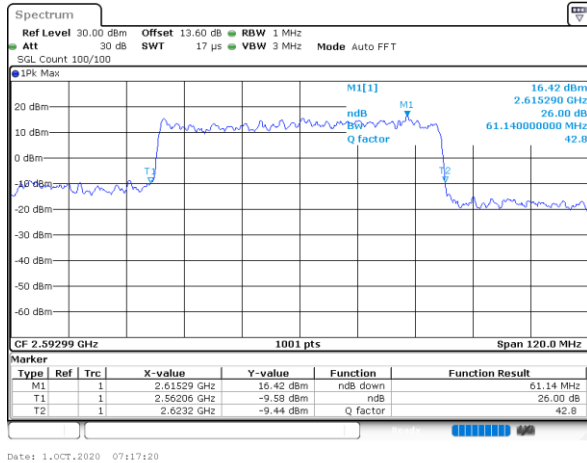


256QAM



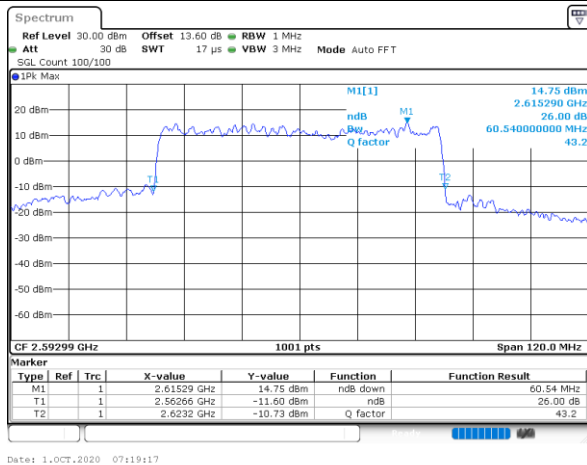
FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

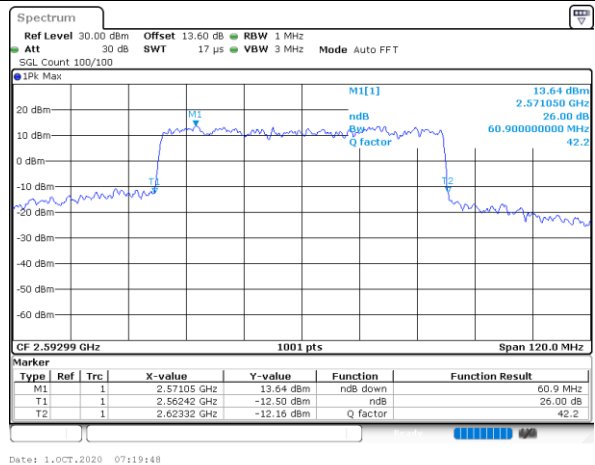


FR1 n41 / 60MHz / CP OFDM

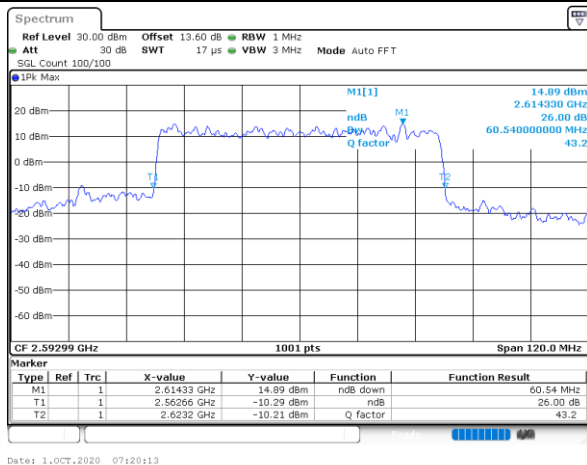
QPSK



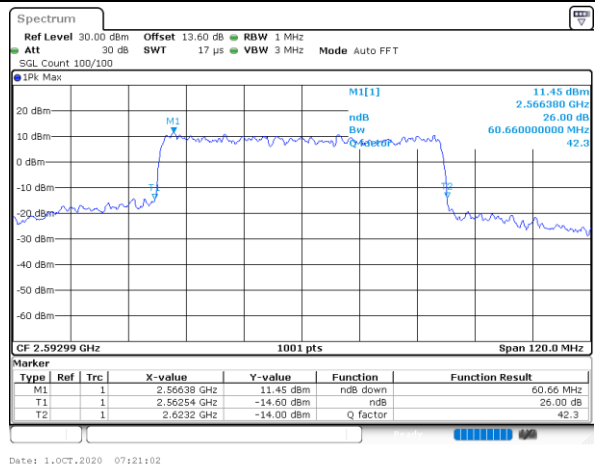
16QAM



64QAM

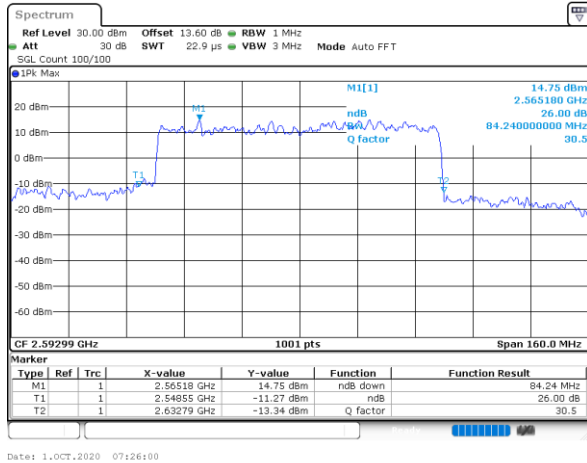


256QAM

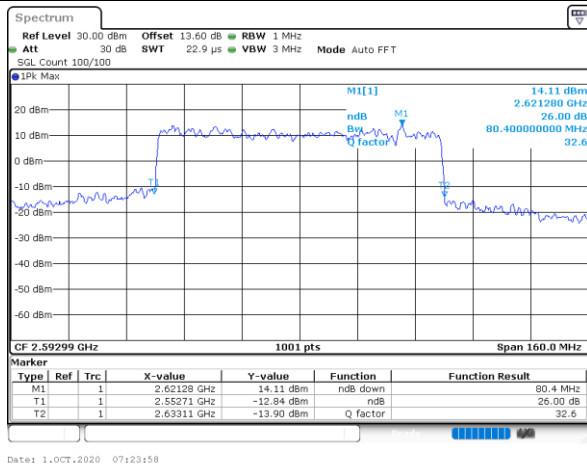


FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel

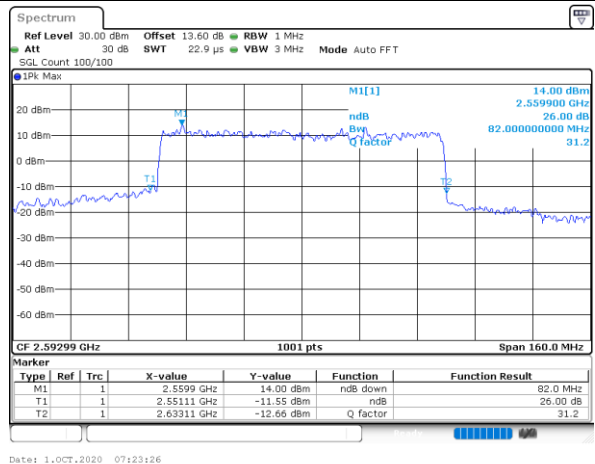
PI/2 BPSK



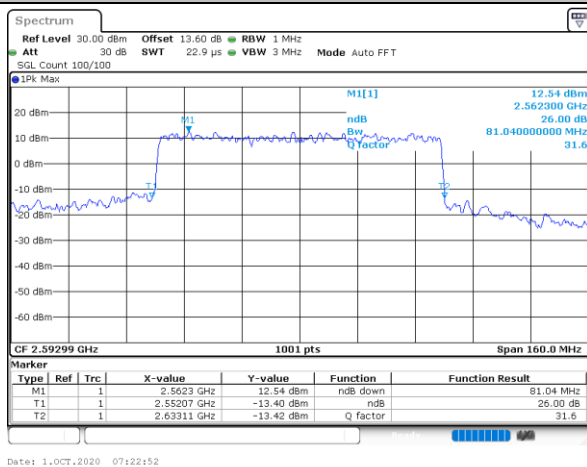
QPSK



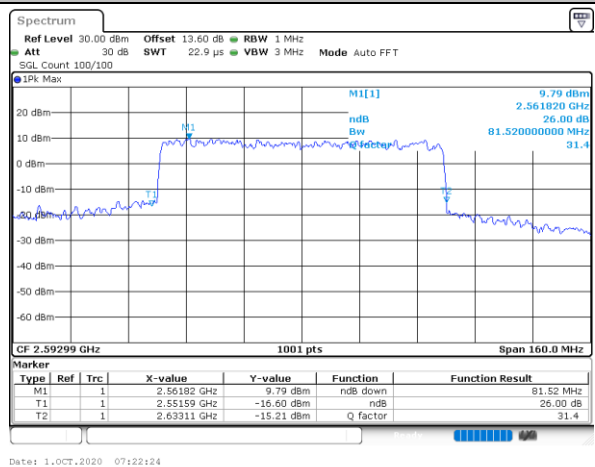
16QAM



64QAM



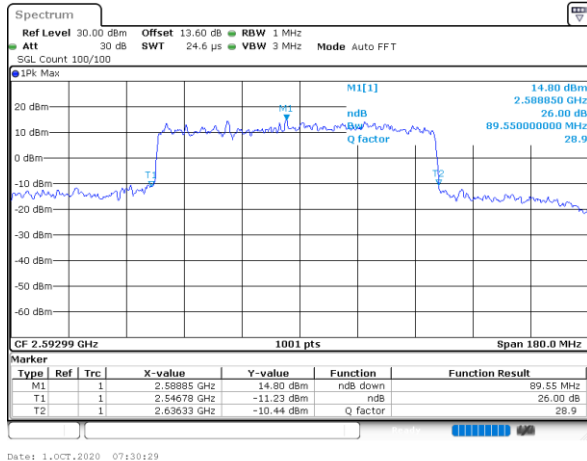
256QAM



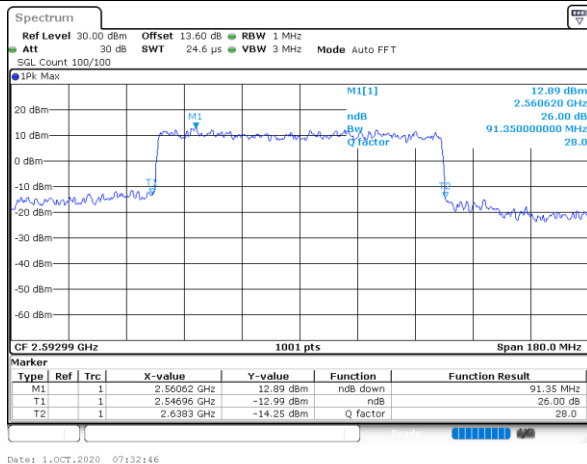


FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel

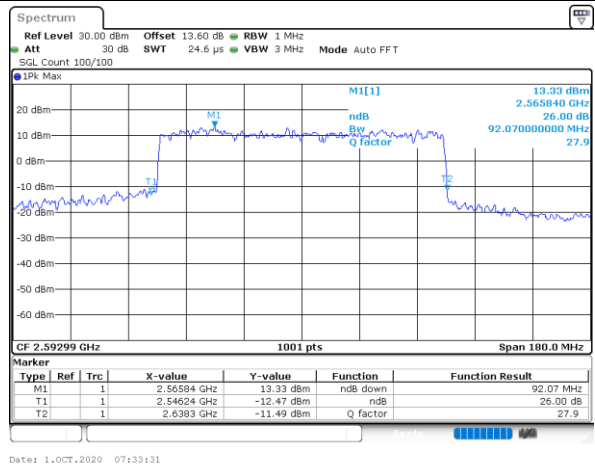
PI/2 BPSK



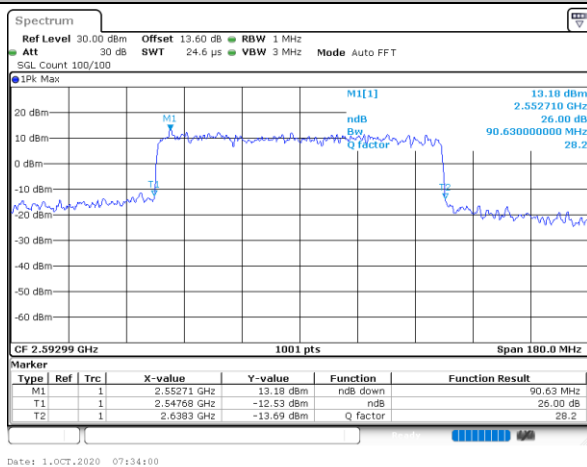
QPSK



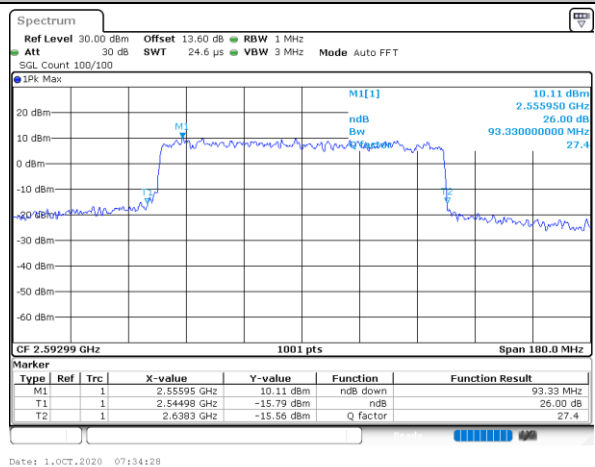
16QAM

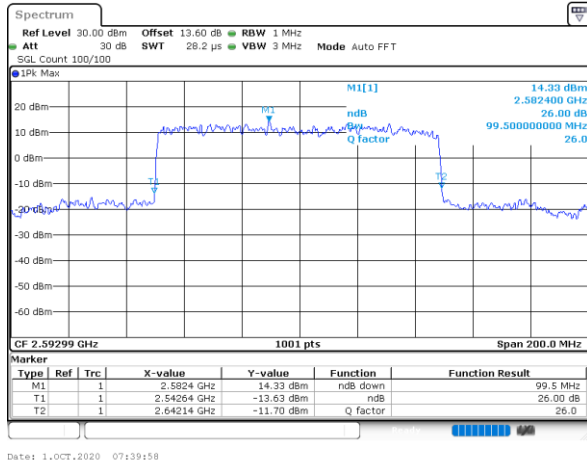
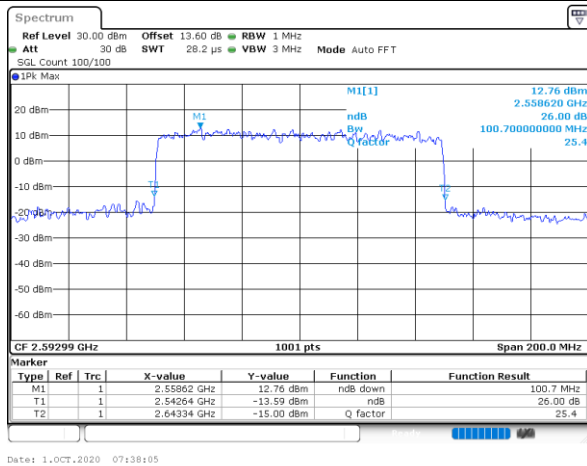
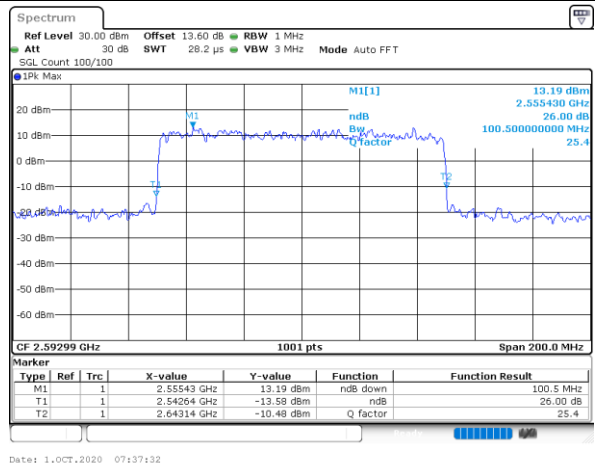
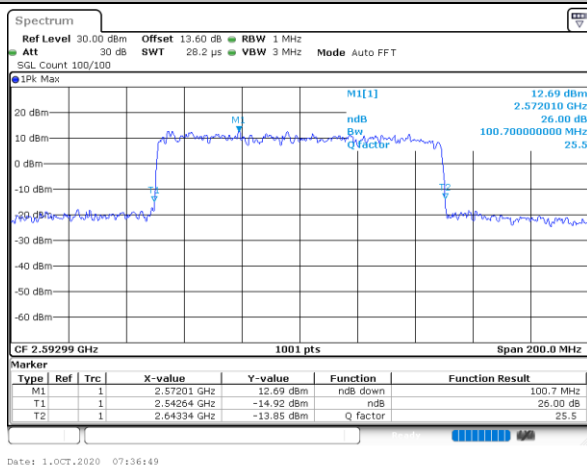
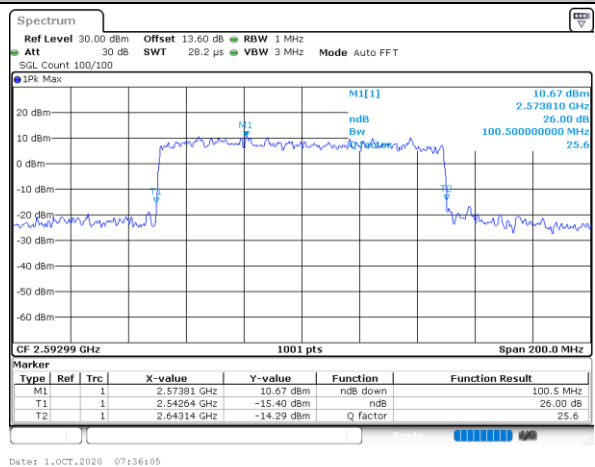


64QAM



256QAM



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

QPSK

16QAM

64QAM

256QAM


**Occupied Bandwidth**

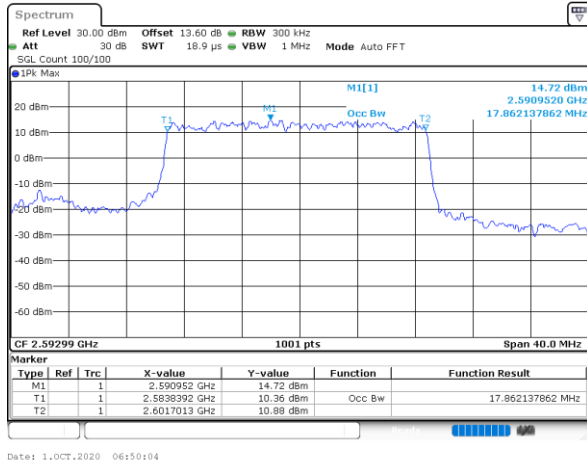
Mode	FR1 n41 : OB BW(MHz) / DFT-S OFDM							
BW	20MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz	
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	
Middle CH	17.86	36.04	46.05	58.14	77.52	85.41	96.10	

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		

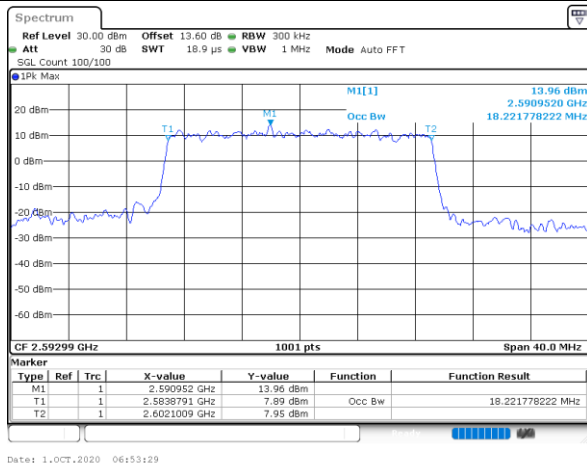


FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel

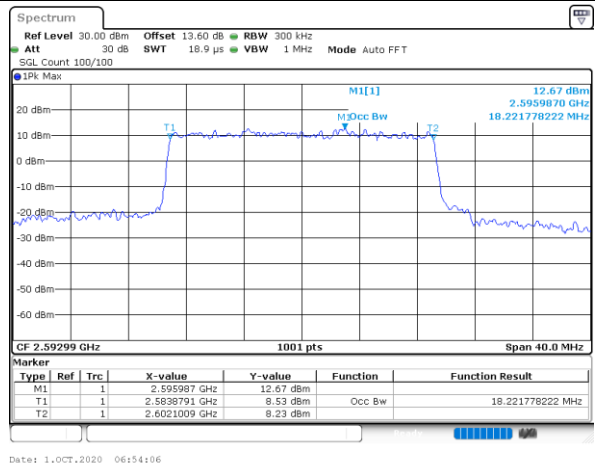
PI/2 BPSK



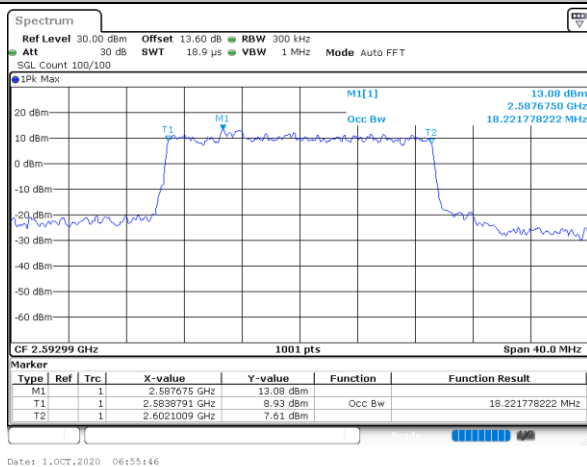
QPSK



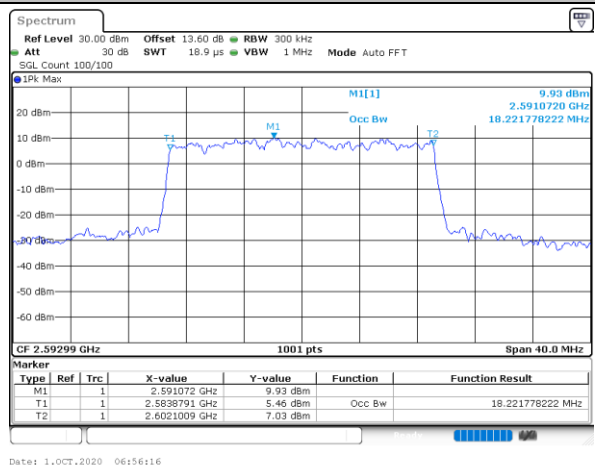
16QAM



64QAM

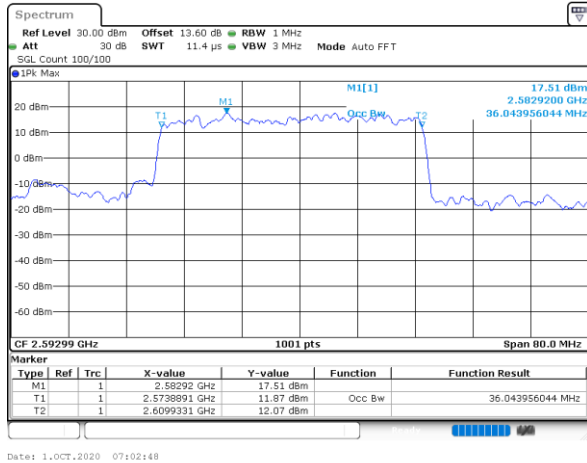


256QAM

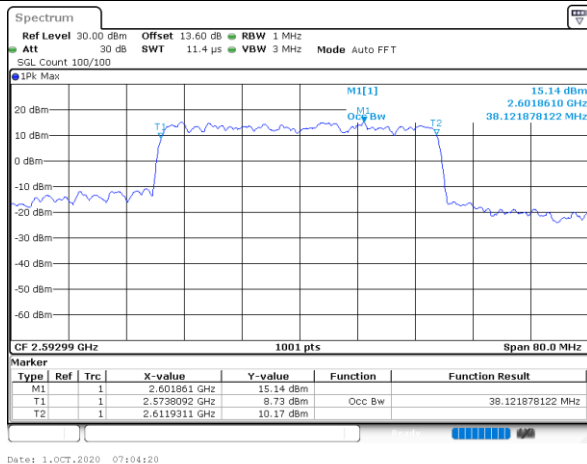


FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel

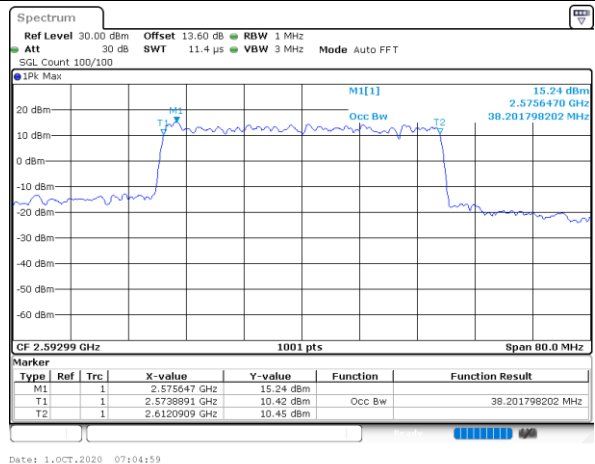
PI/2 BPSK



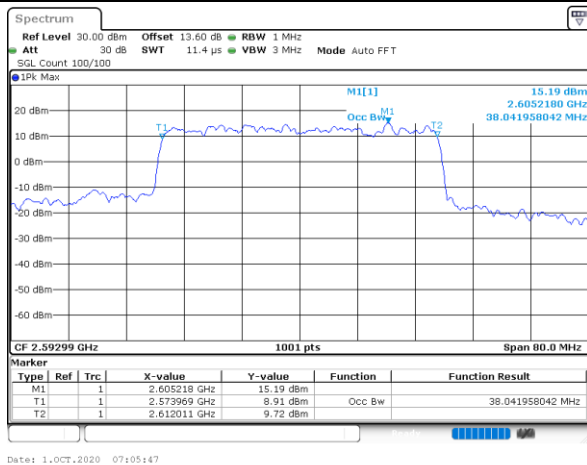
QPSK



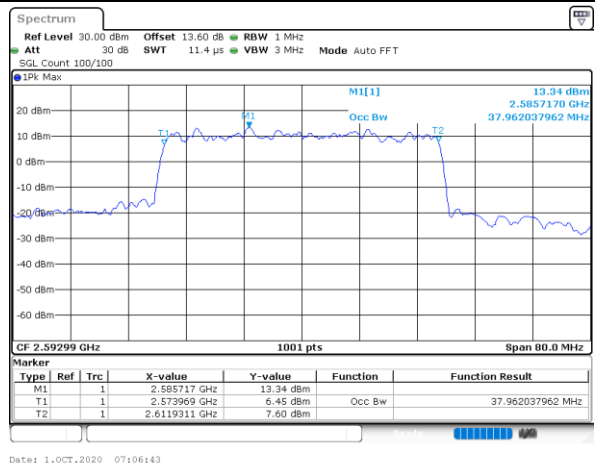
16QAM



64QAM



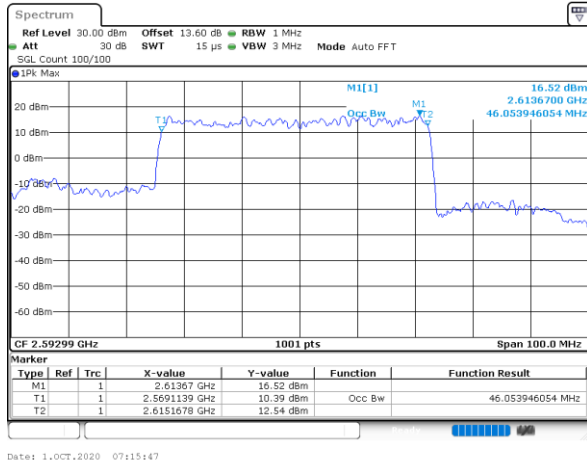
256QAM



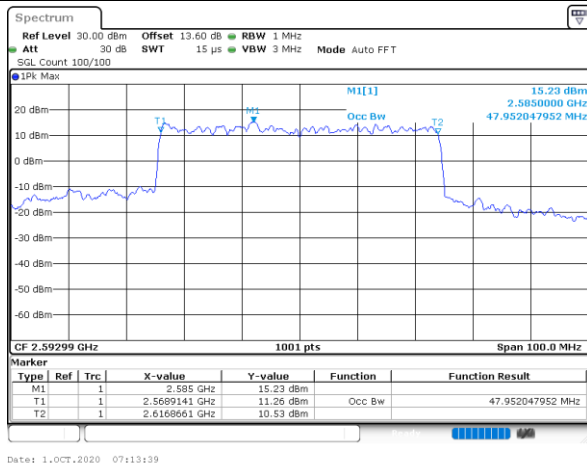


FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel

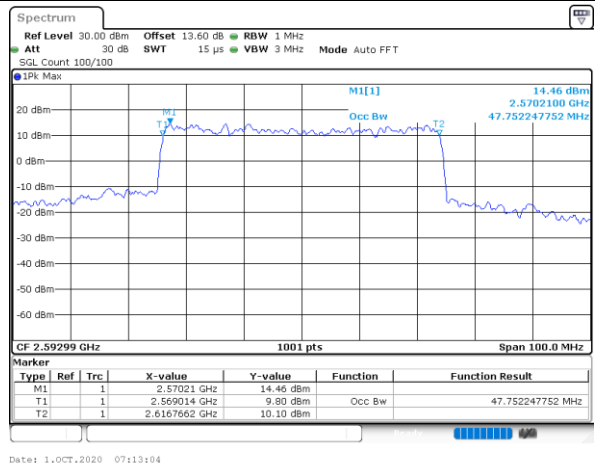
PI/2 BPSK



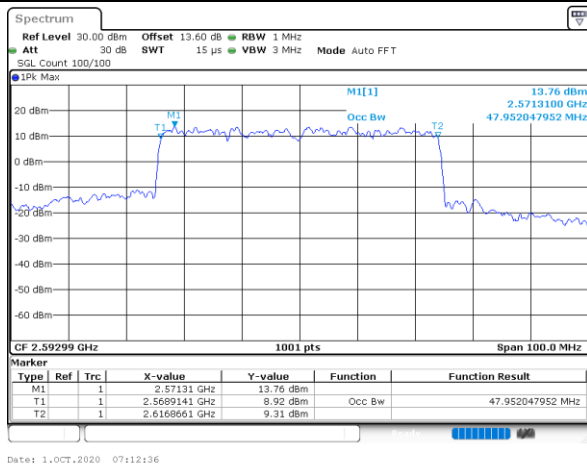
QPSK



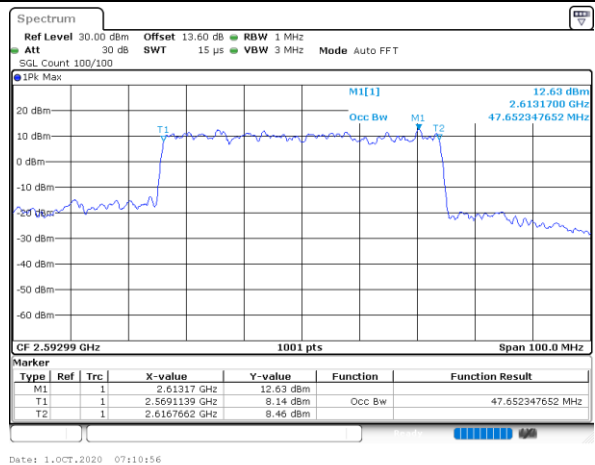
16QAM



64QAM

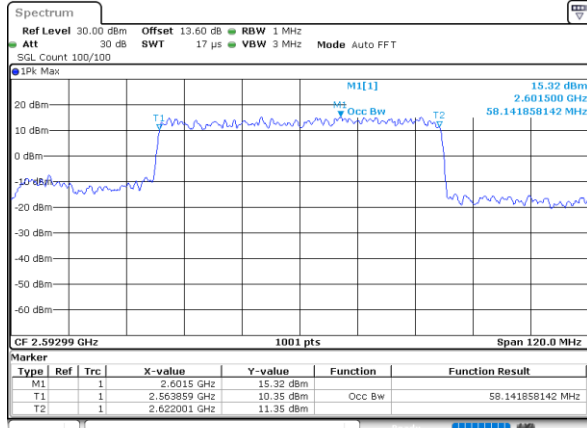


256QAM

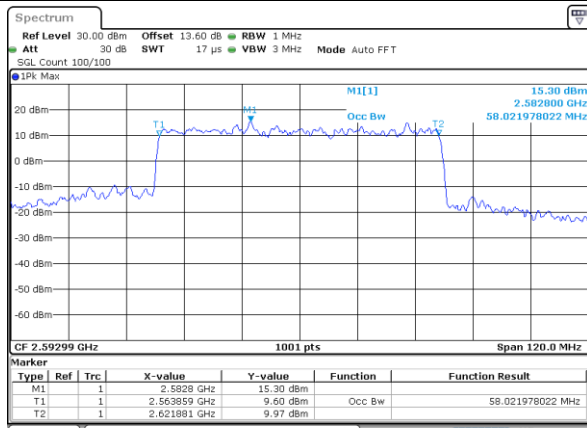


FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel

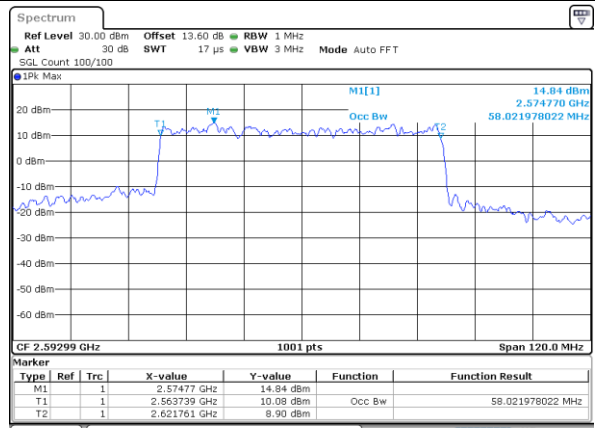
PI/2 BPSK



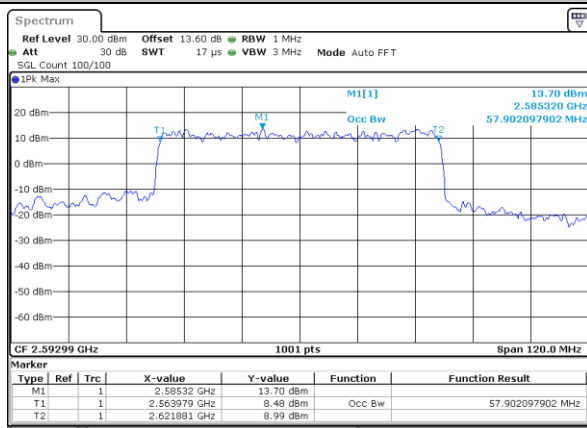
QPSK



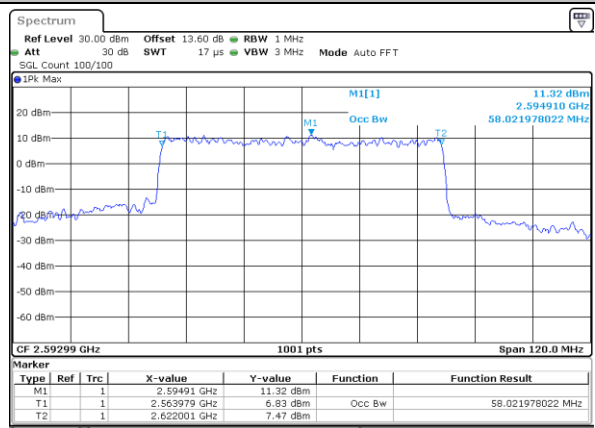
16QAM



64QAM



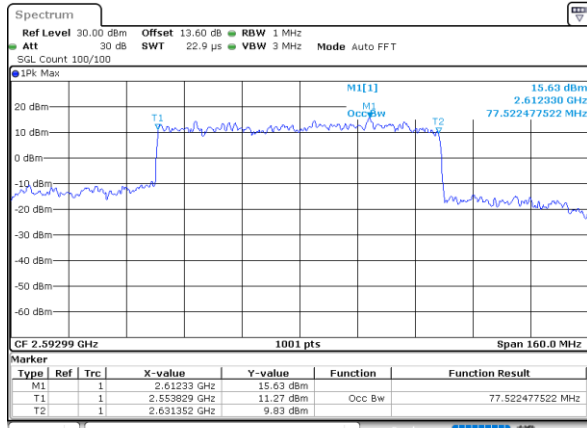
256QAM





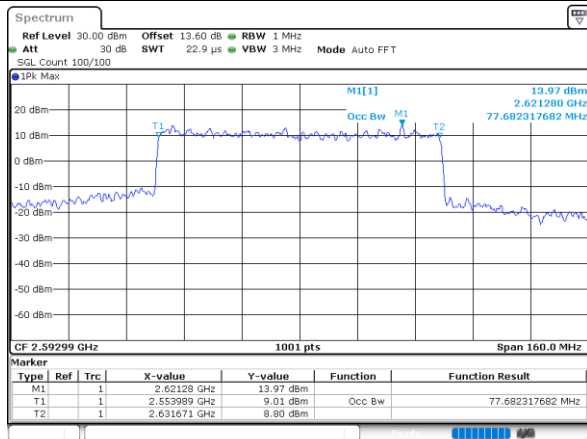
FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



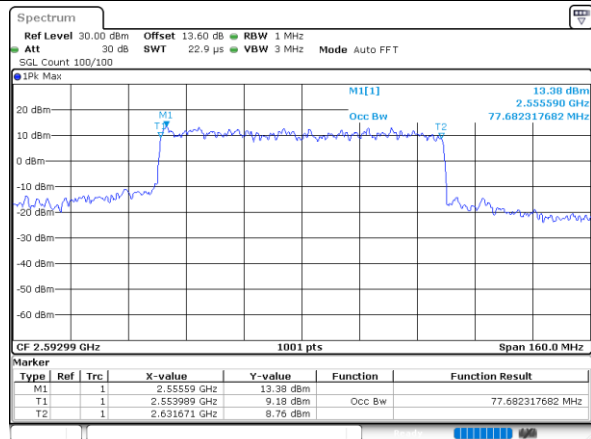
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QPSK



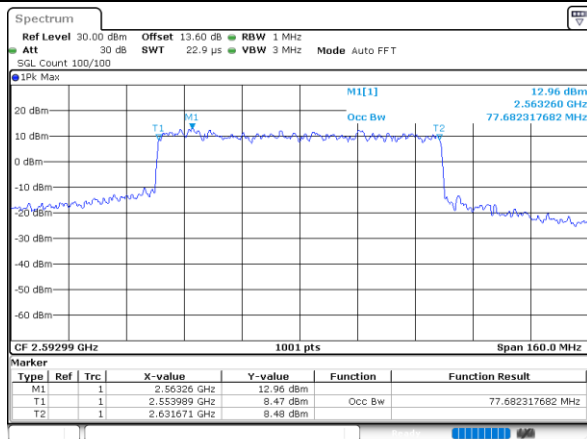
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16QAM



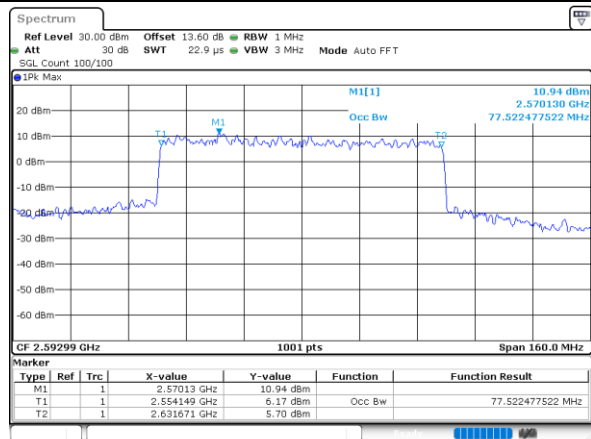
Date: 1.OCT.2020 07:23:18

64QAM



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

256QAM

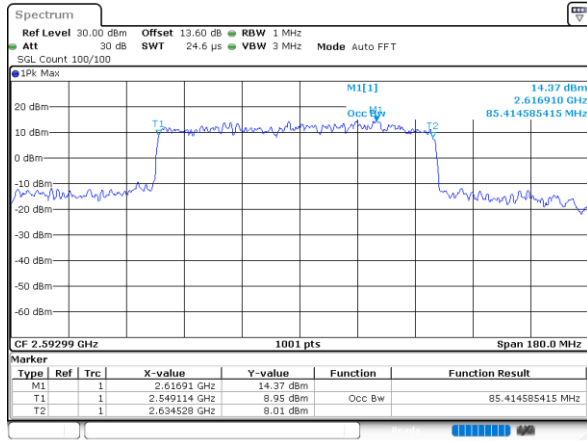


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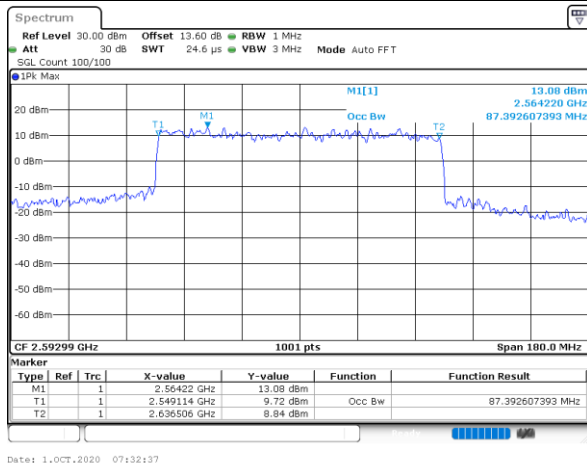


FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel

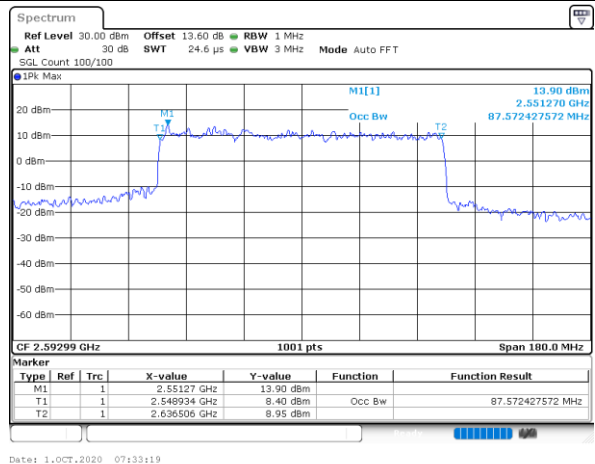
PI/2 BPSK



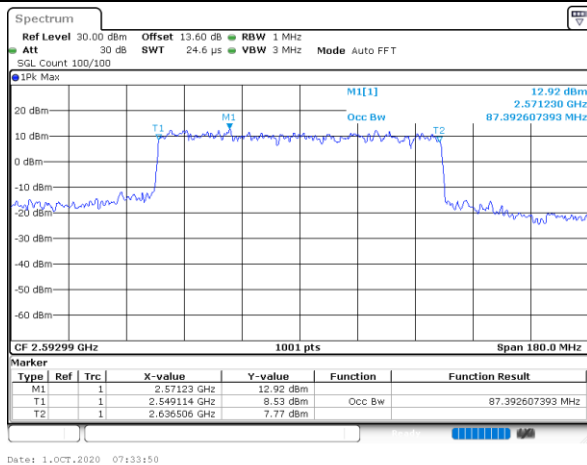
QPSK



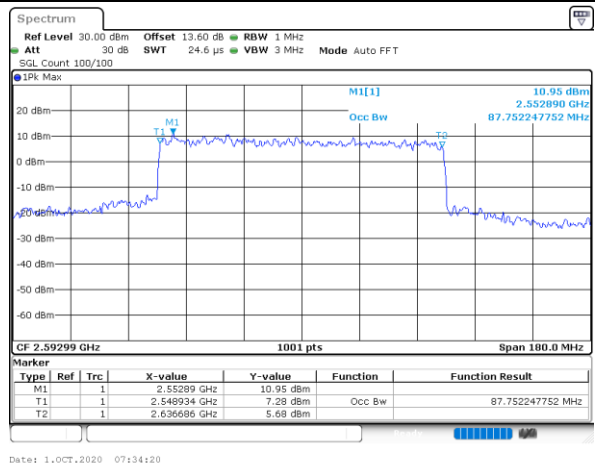
16QAM



64QAM



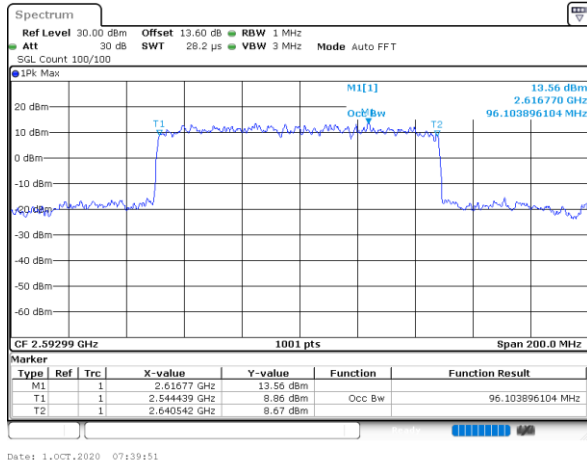
256QAM



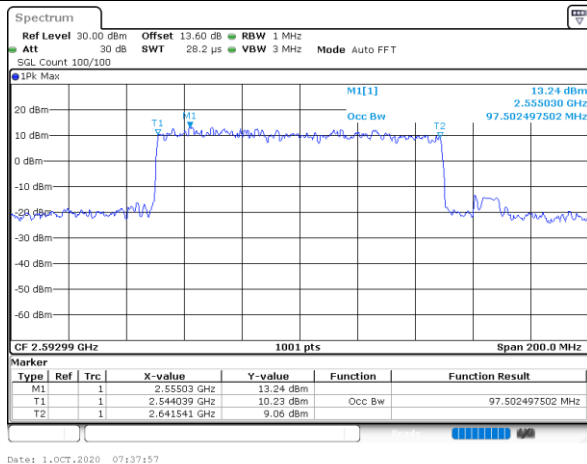


FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel

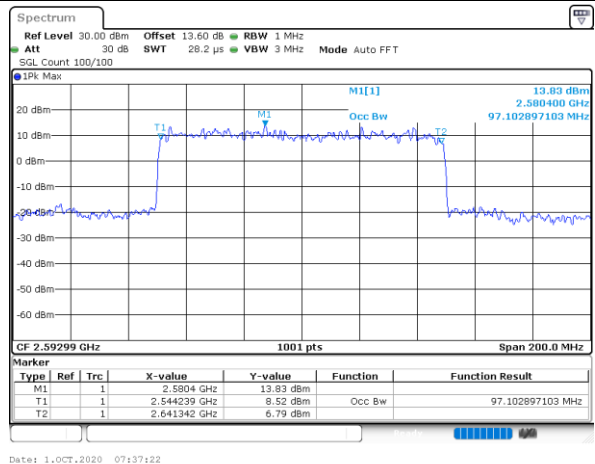
PI/2 BPSK



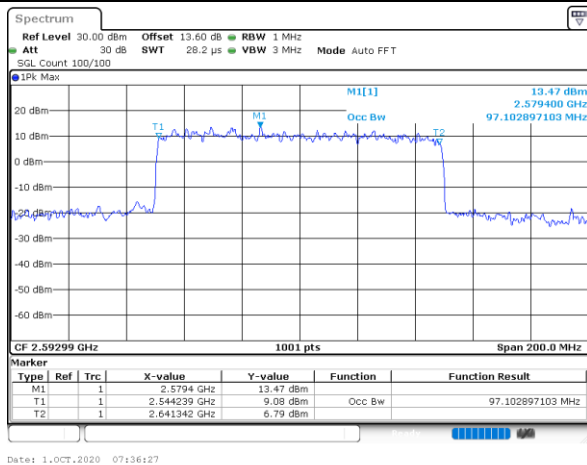
QPSK



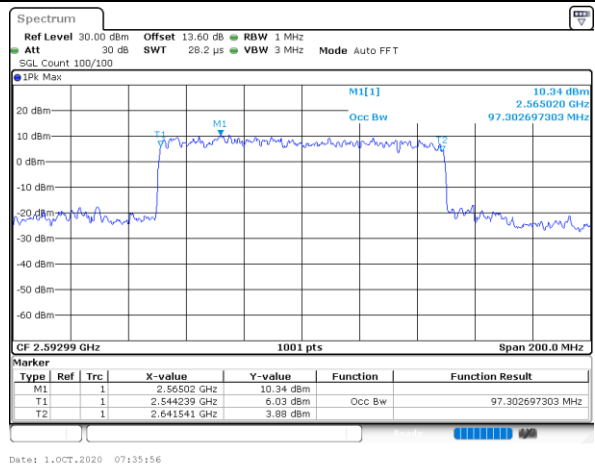
16QAM

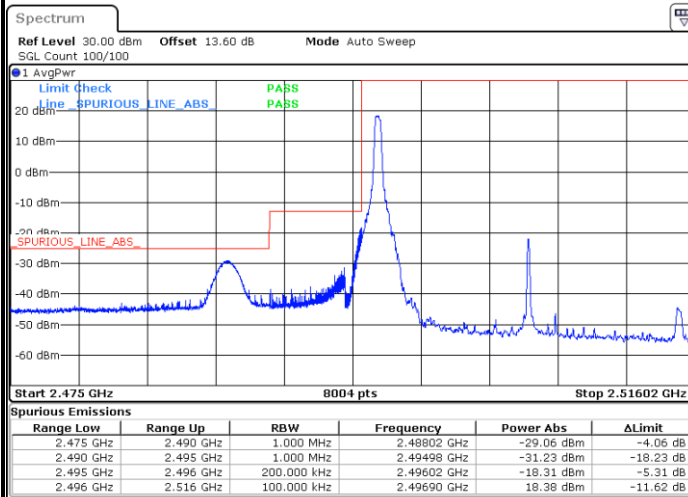
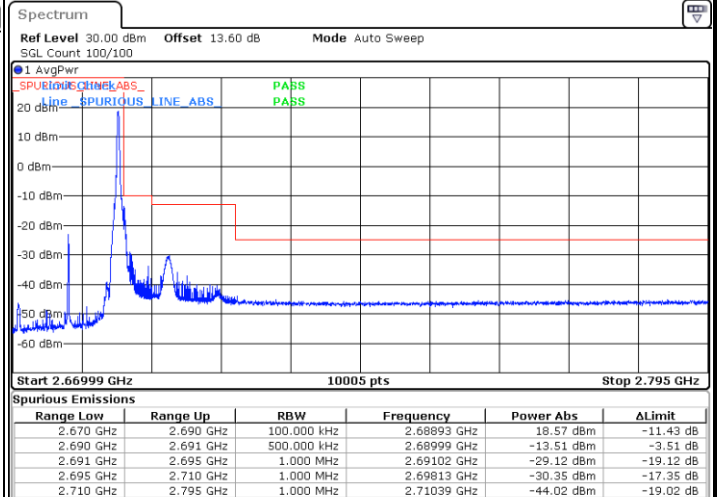
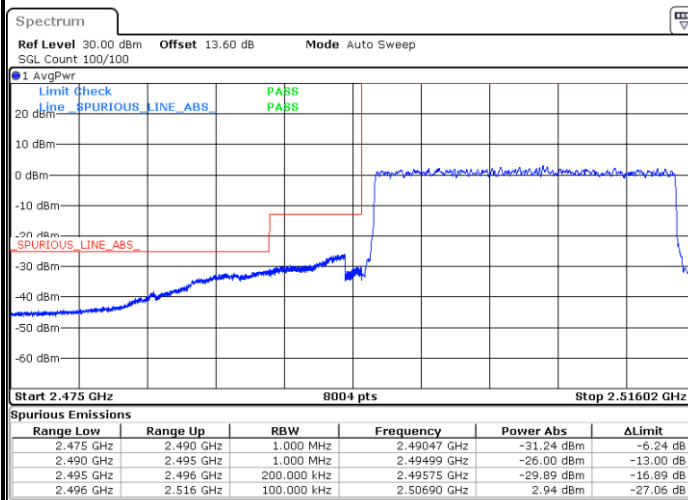


64QAM



256QAM



**Conducted Band Edge****FR1 n41 / 20MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**