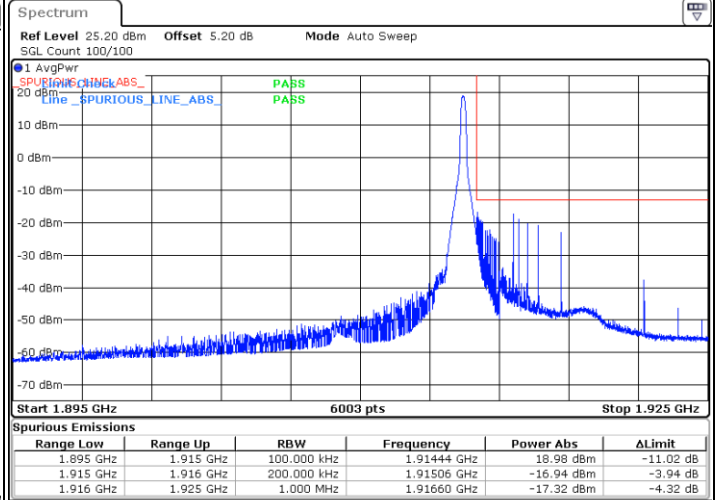
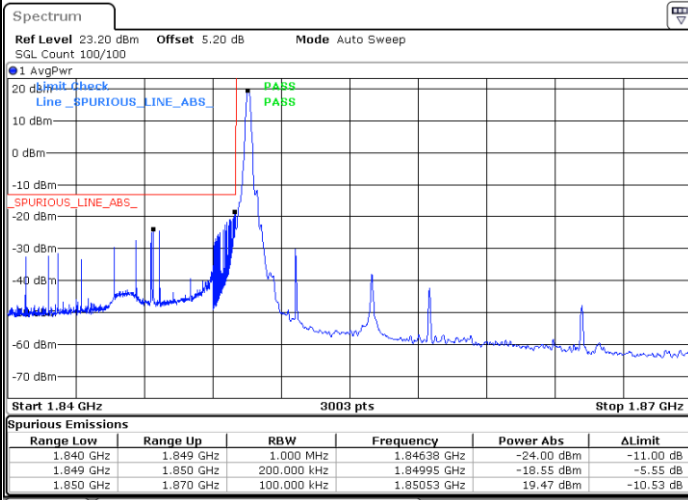




FR1 n25 / 20MHz / DFT-s-OFDM / 64QAM

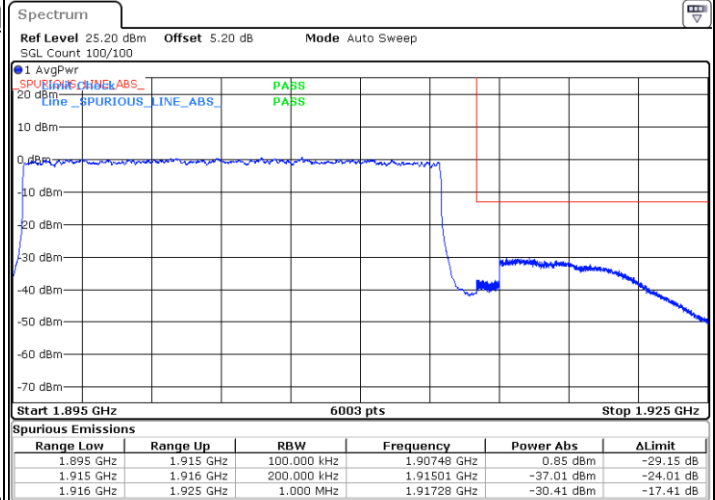
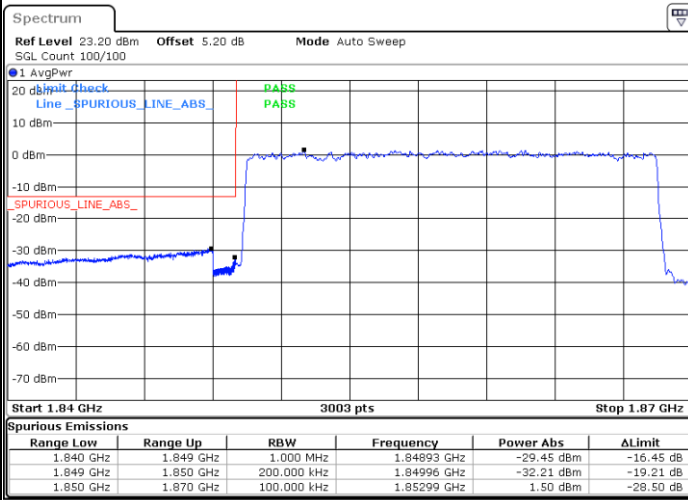
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

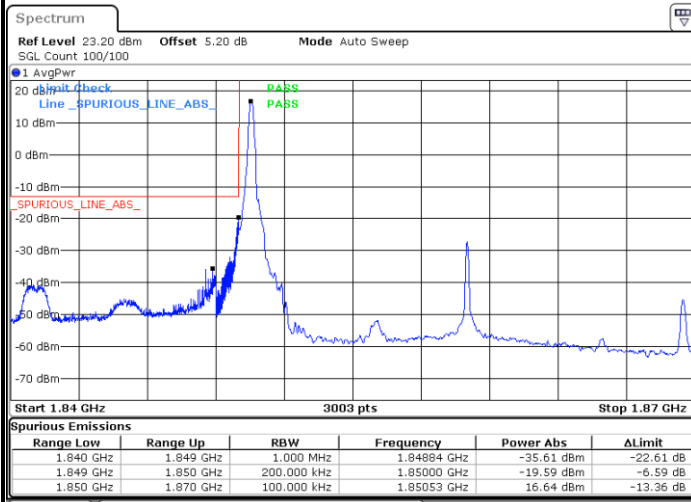
Highest Band Edge / Full RB



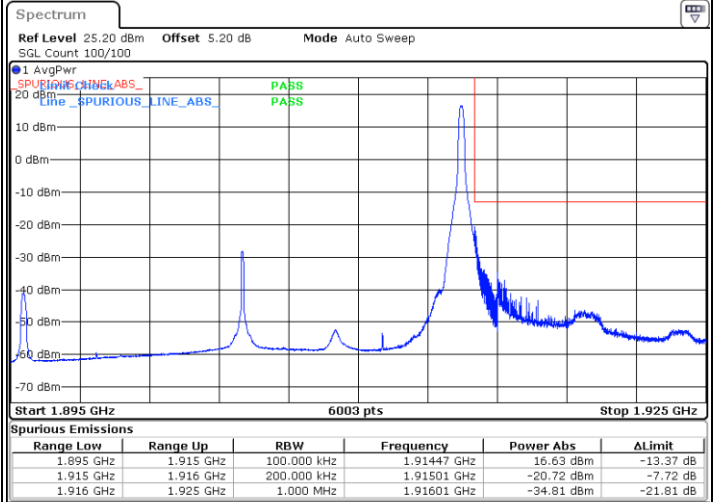


FR1 n25 / 20MHz / DFT-s-OFDM / 256QAM

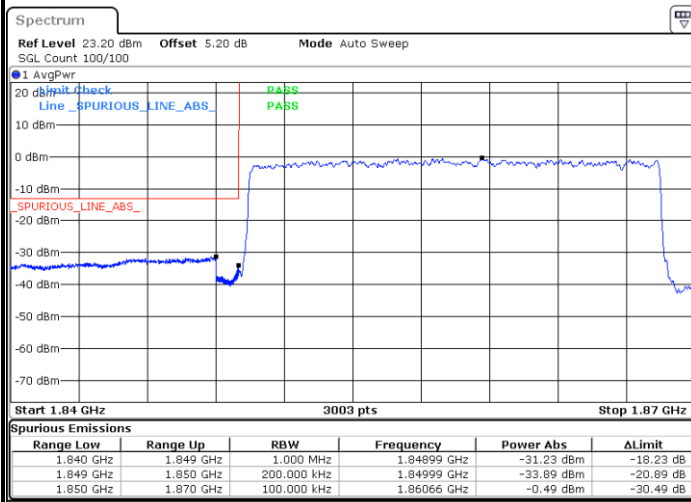
Lowest Band Edge / 1RB0



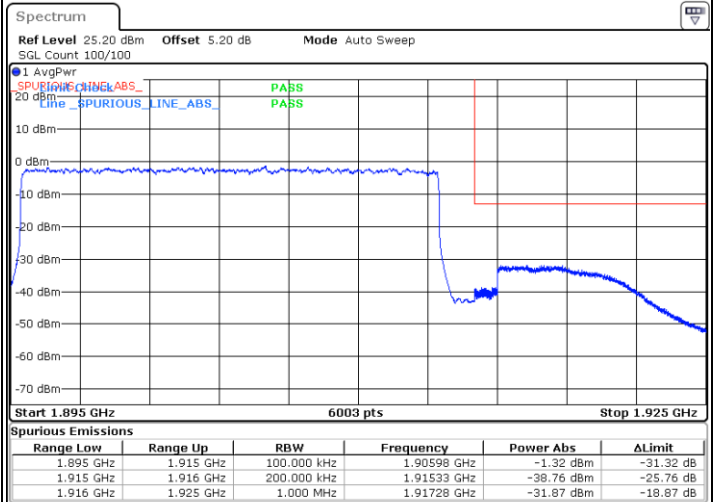
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



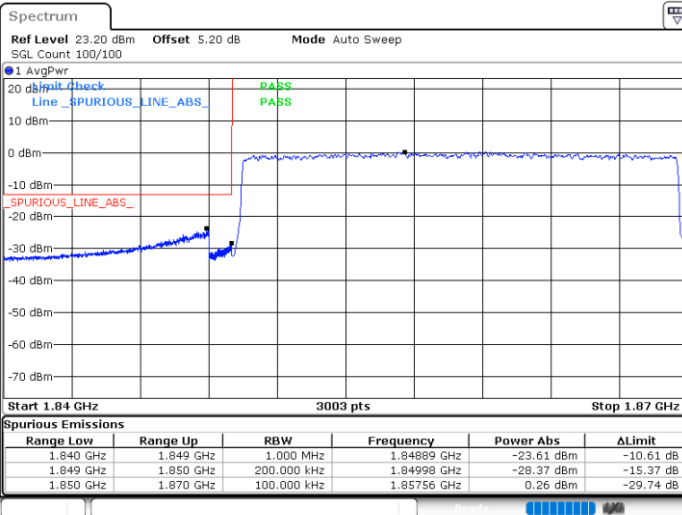
Highest Band Edge / Full RB



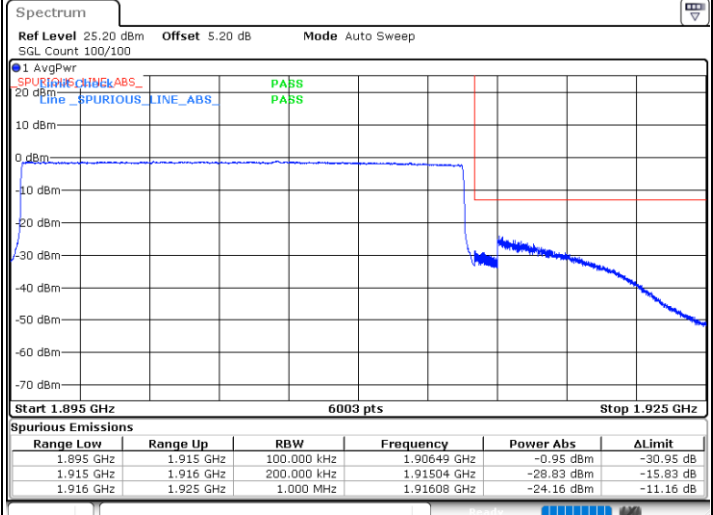


FR1 n25 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB



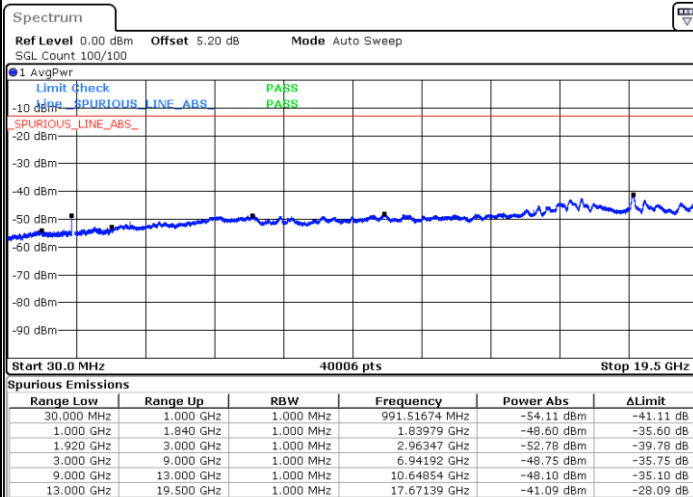


Conducted Spurious Emission

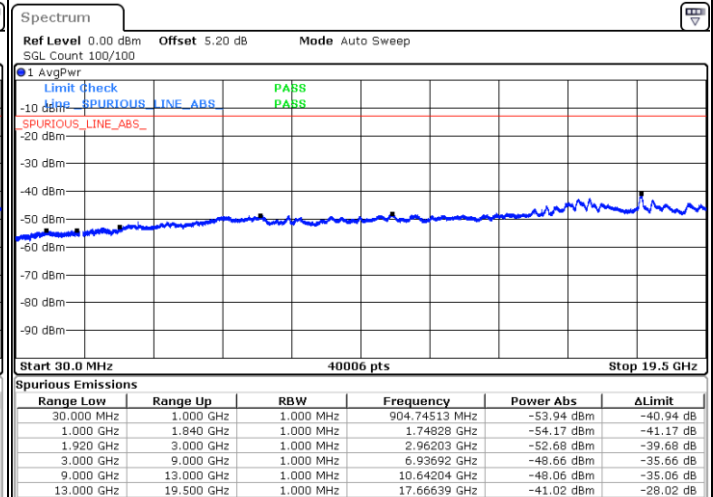
FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

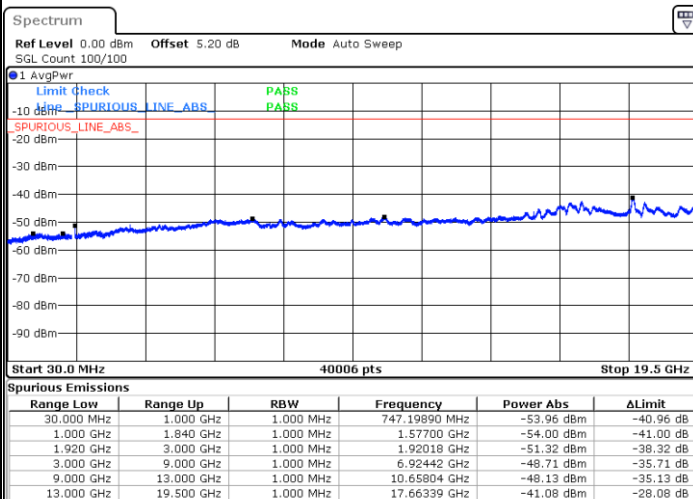


Date: 1.JUL.2020 16:12:37



Date: 1.JUL.2020 16:13:49

Highest Channel / 1RB1

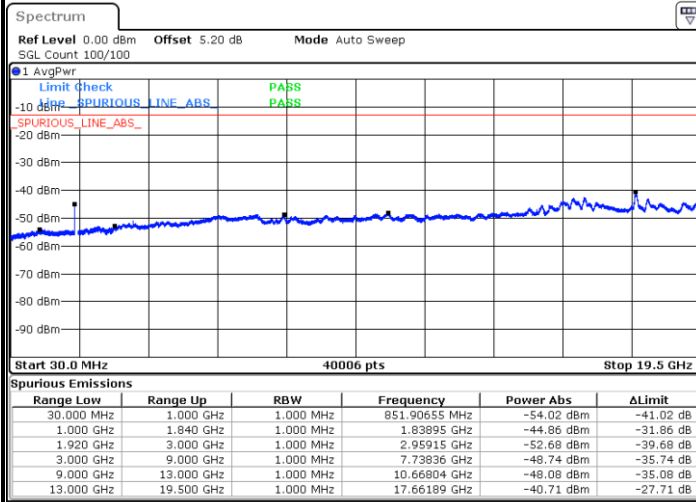


Date: 1.JUL.2020 16:14:58



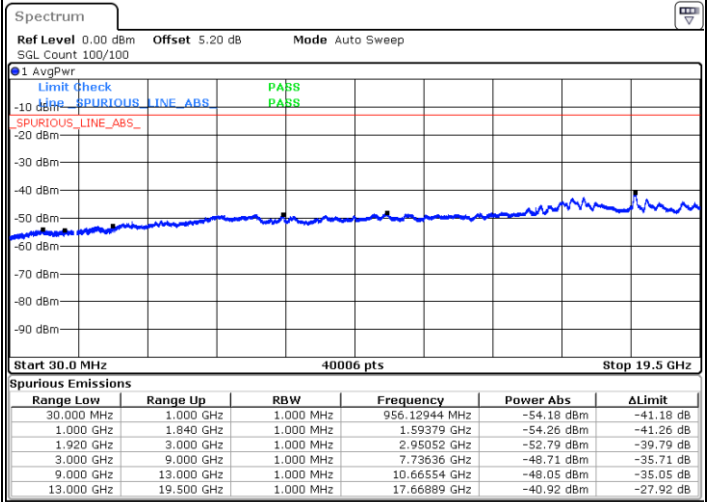
FR1 n25 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



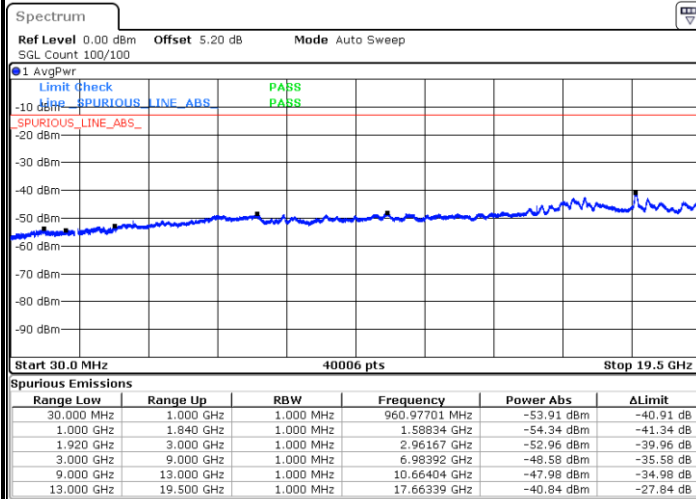
Date: 1.JUL.2020 14:54:59

Middle Channel / 1RB1



Date: 1.JUL.2020 15:00:48

Highest Channel / 1RB1

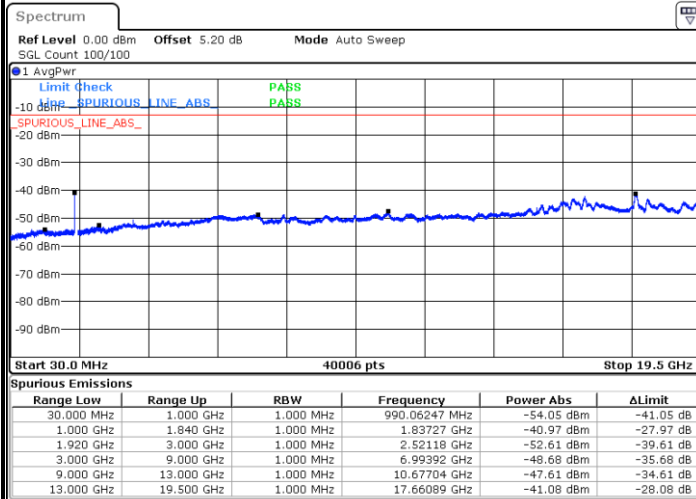


Date: 1.JUL.2020 15:04:46



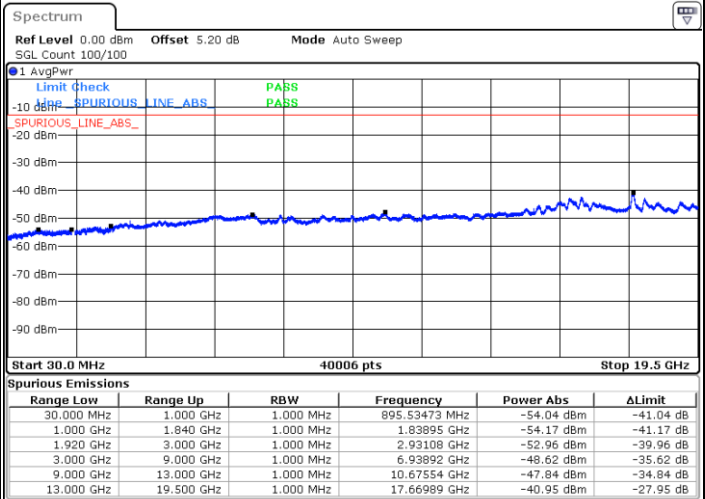
FR1 n25 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



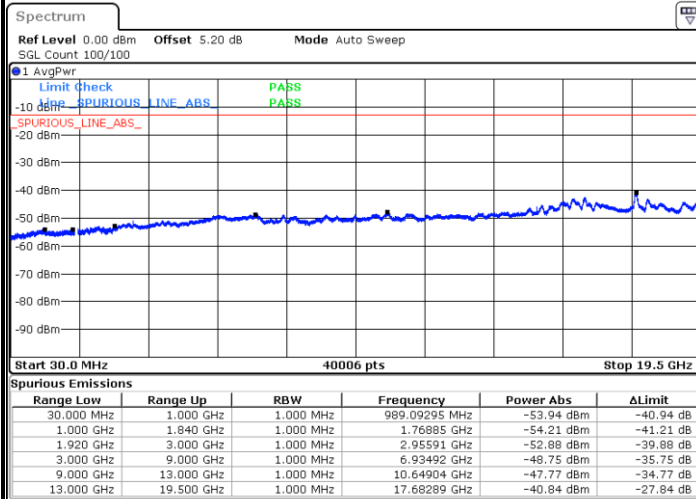
Date: 1.JUL.2020 09:44:38

Middle Channel / 1RB1



Date: 1.JUL.2020 10:01:26

Highest Channel / 1RB1

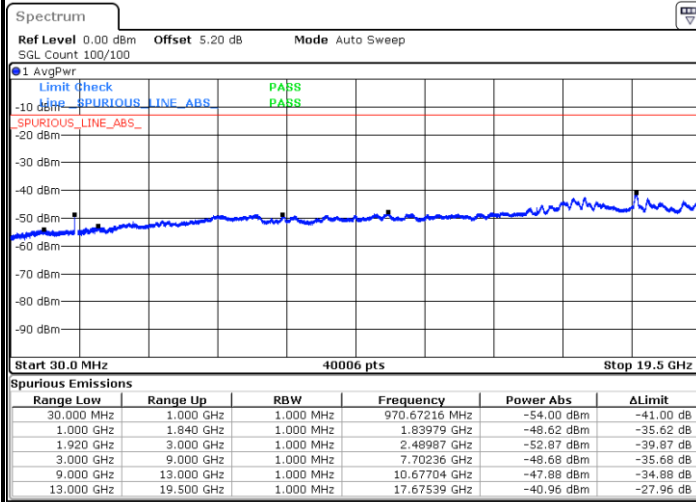


Date: 1.JUL.2020 10:04:01



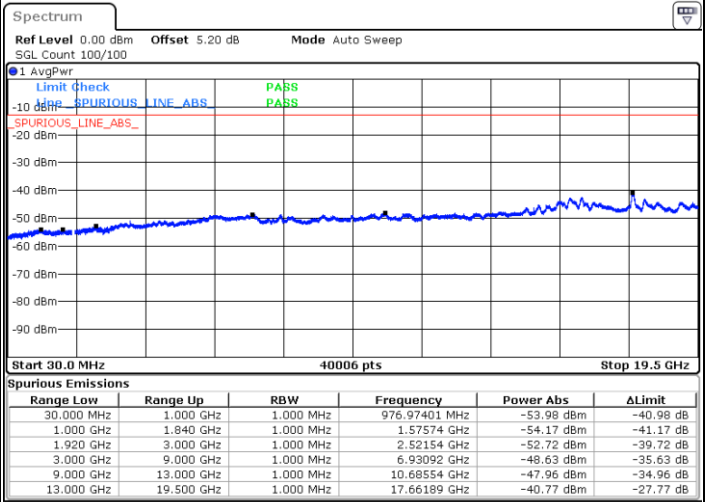
FR1 n25 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



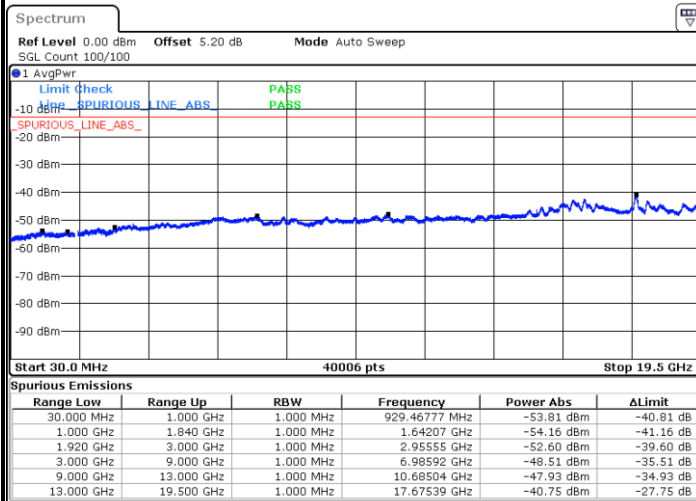
Date: 1.JUL.2020 09:31:34

Middle Channel / 1RB1



Date: 30.JUN.2020 14:44:50

Highest Channel / 1RB1



Date: 30.JUN.2020 14:45:59

Frequency Stability

Test Conditions		FR1 n25 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0017	
20	Battery End Point	0.0025	

Note:

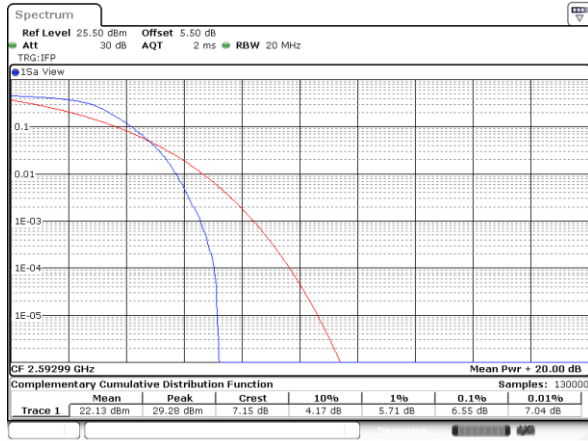
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.49 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

**FR1 n41 (HPUE)****Peak-to-Average Ratio**

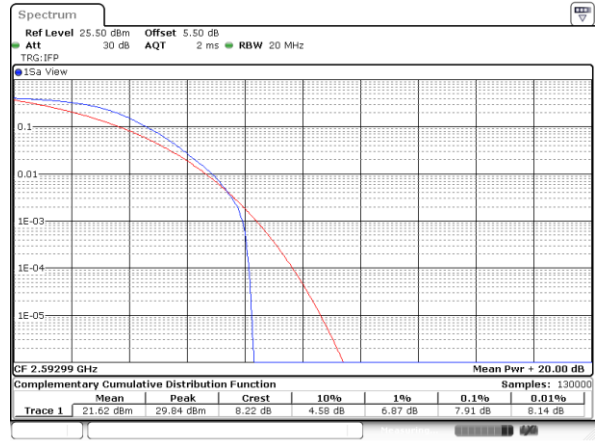
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.55	7.91	8.93	9.13	PASS
Mode	FR1 n41 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	9.19				PASS

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

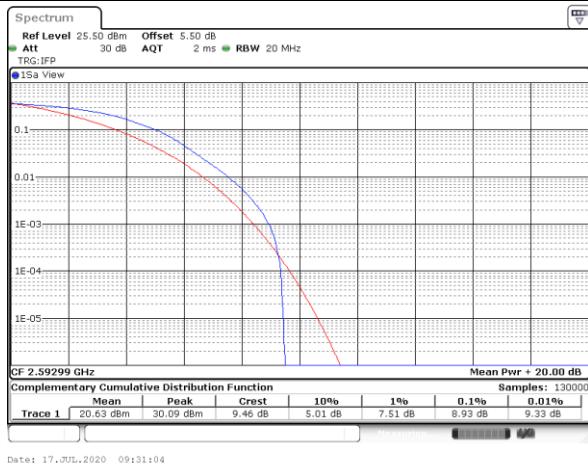
PI/2 BPSK



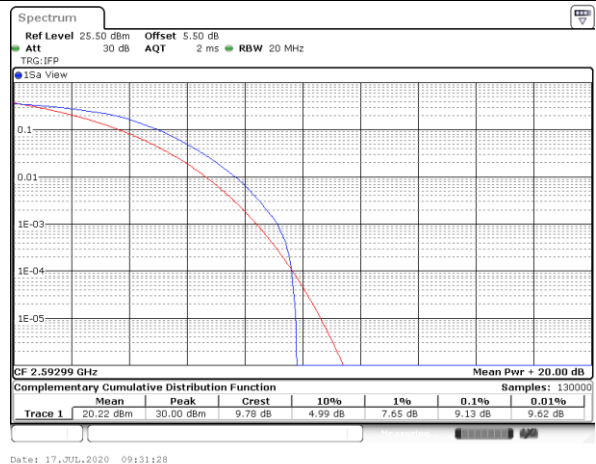
QPSK



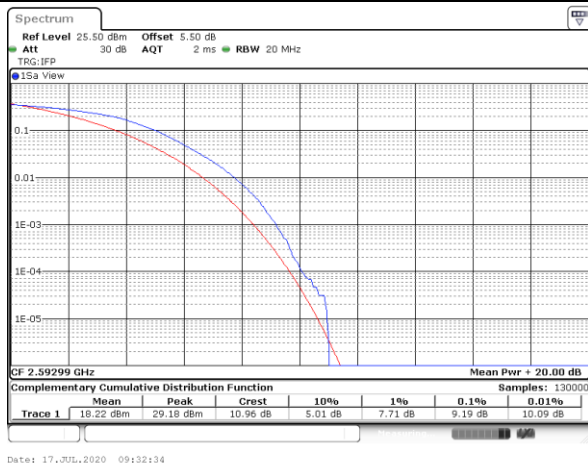
16QAM



64QAM



256QAM



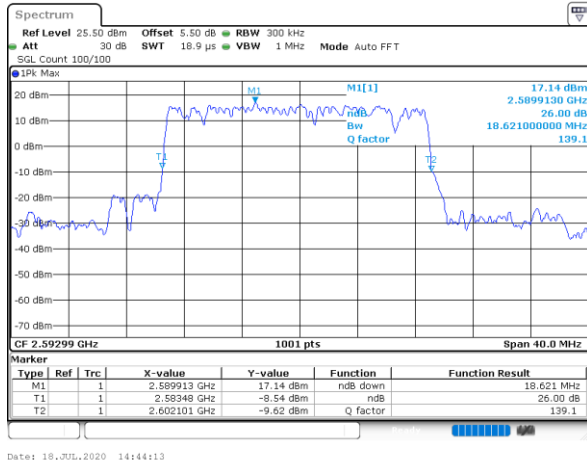
**26dB Bandwidth**

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	18.62	38.04	48.05	60.54	79.60	89.55	99.30	

Mode	FR1 n41 : 26dB BW(MHz) / CP OFDM							
BW	20MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.98	19.26	40.36	40.20	49.85	49.65	60.42	60.54
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	19.10	19.34	40.28	40.36	49.75	49.85	60.54	60.42
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	79.76	80.40	90.45	90.45	100.30	100.30		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	79.92	79.92	90.81	90.27	100.50	100.50		

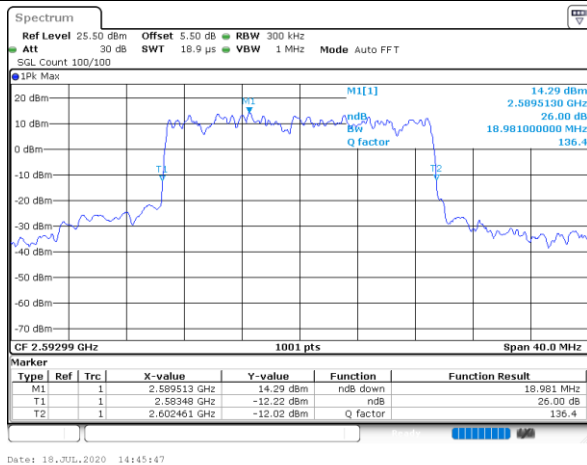
FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

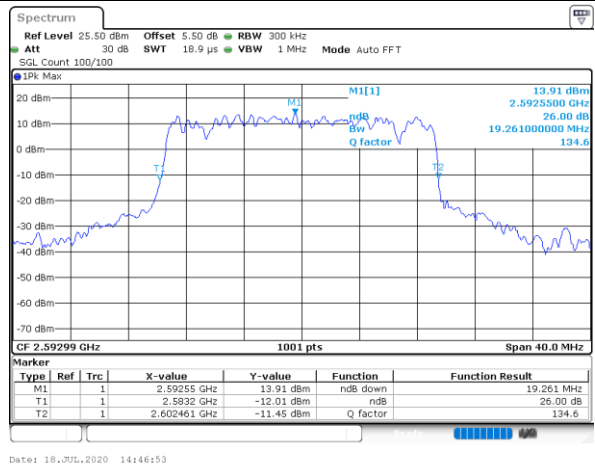


FR1 n41 / 20MHz / CP OFDM

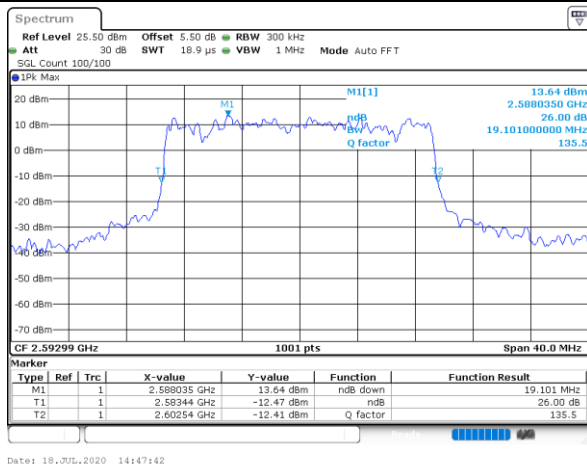
QPSK



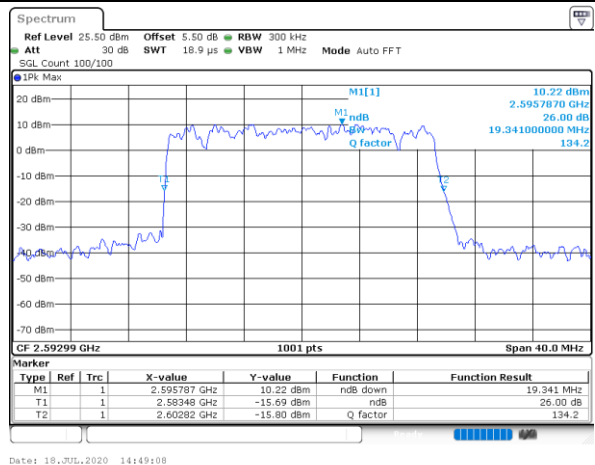
16QAM

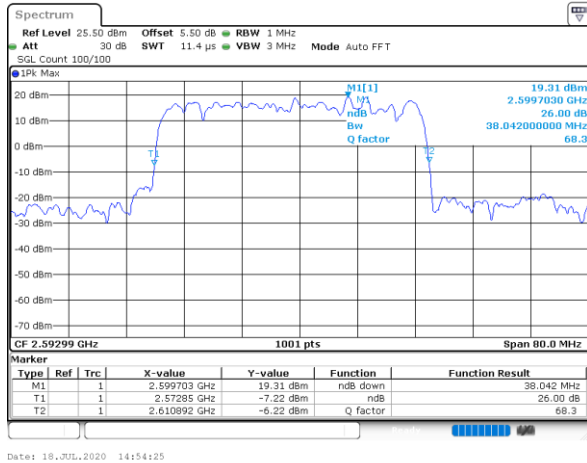
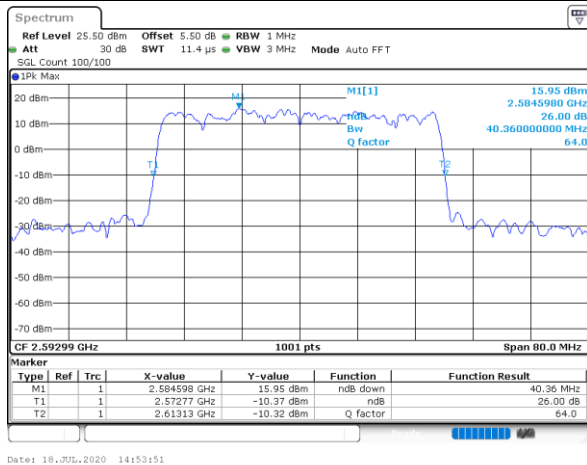
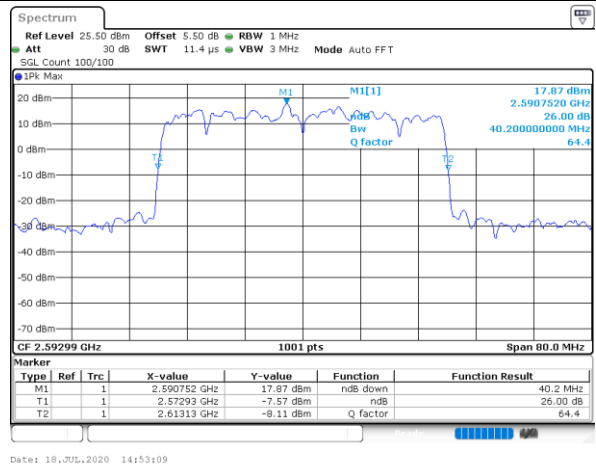
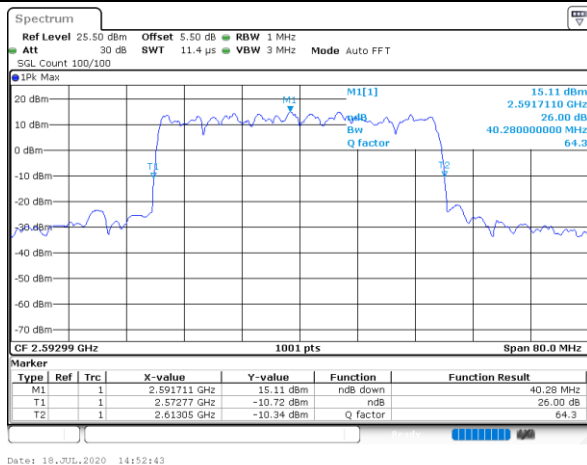
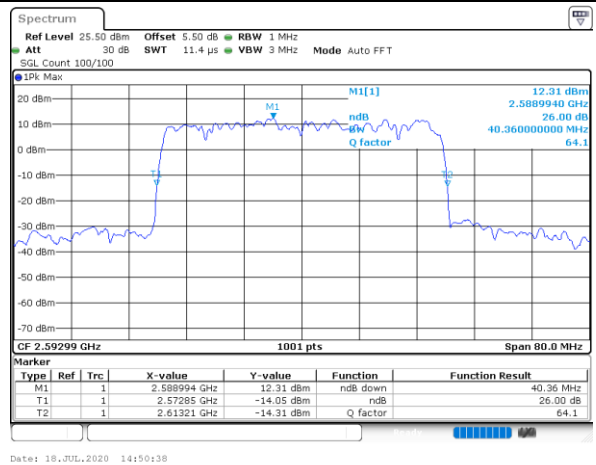


64QAM



256QAM

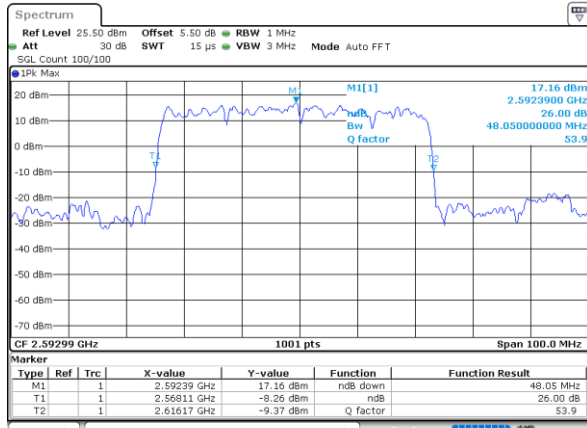


FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel
PI/2 BPSK

QPSK
Middle Channel

16QAM
Middle Channel

64QAM

256QAM




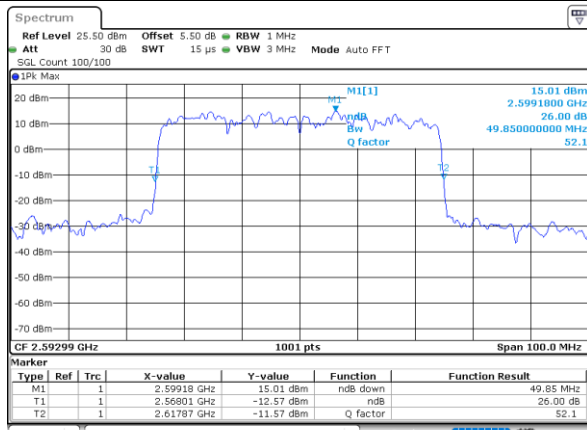
FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



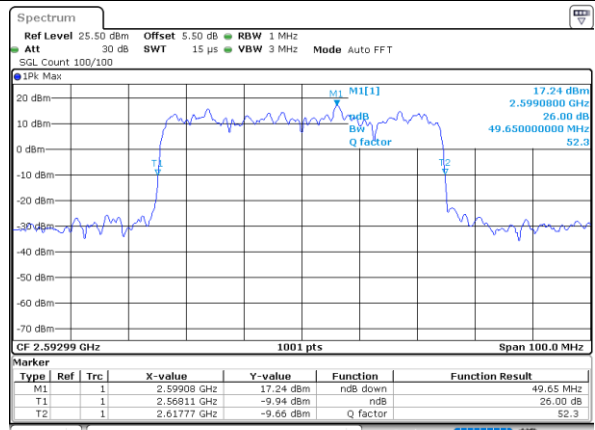
Date: 18.JUL.2020 15:01:01

QPSK



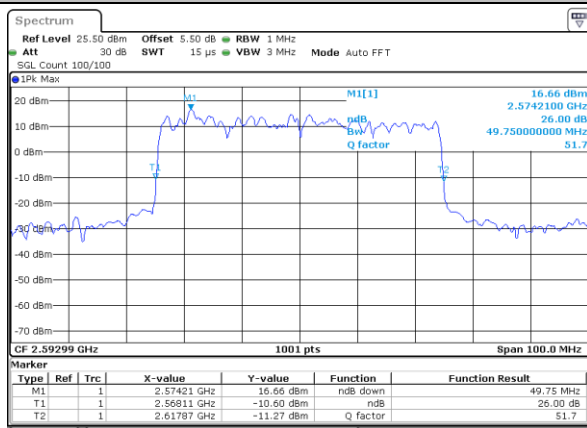
Date: 18.JUL.2020 15:01:41

16QAM



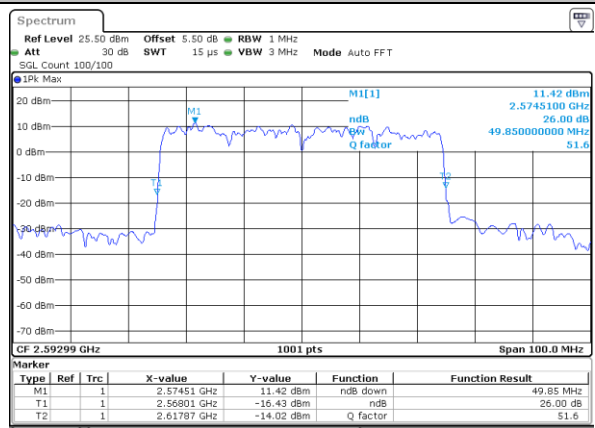
Date: 18.JUL.2020 15:02:08

64QAM



Date: 18.JUL.2020 15:02:39

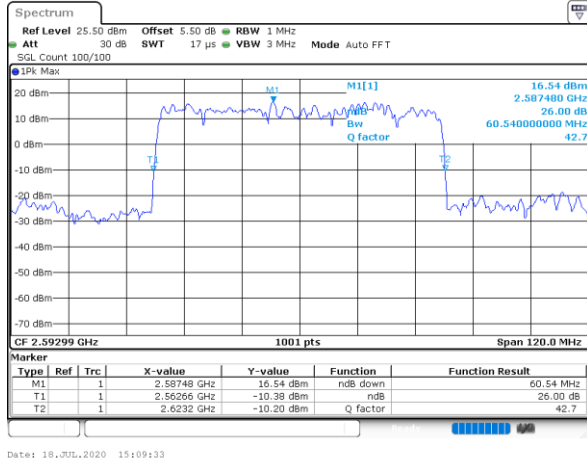
256QAM



Date: 18.JUL.2020 15:03:08

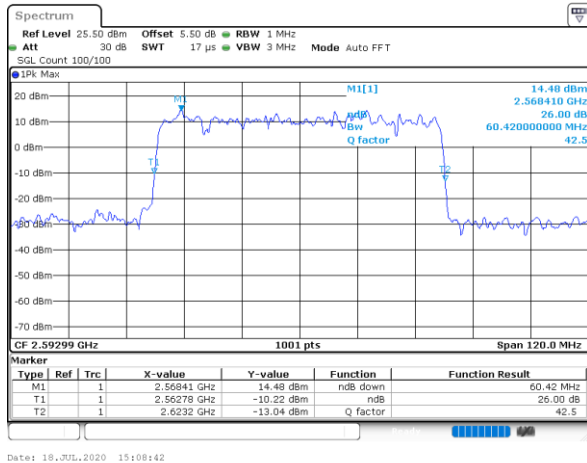
FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

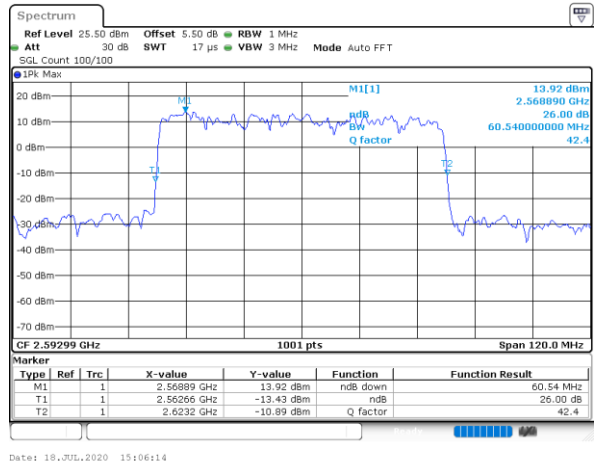


FR1 n41 / 60MHz / CP OFDM

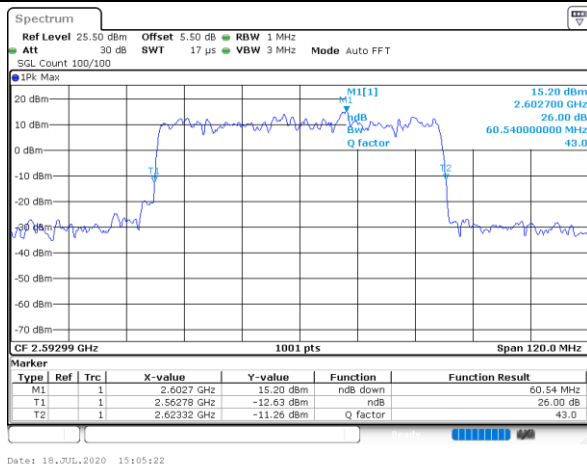
QPSK



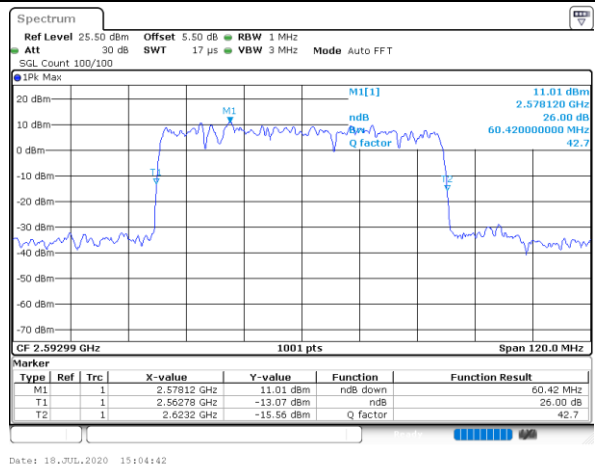
16QAM



64QAM



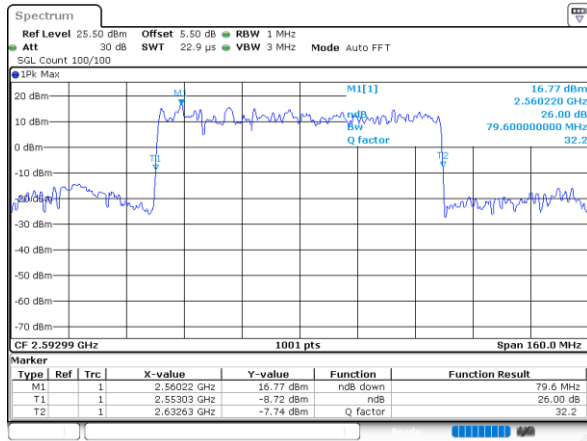
256QAM



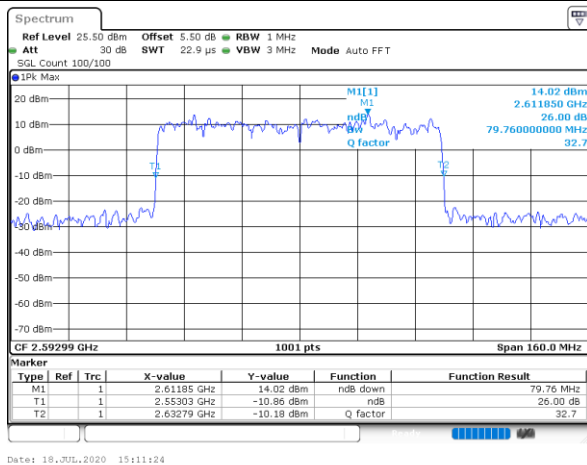


FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel

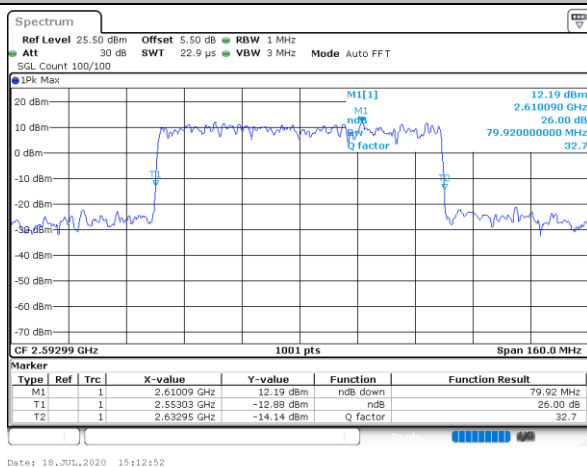
PI/2 BPSK



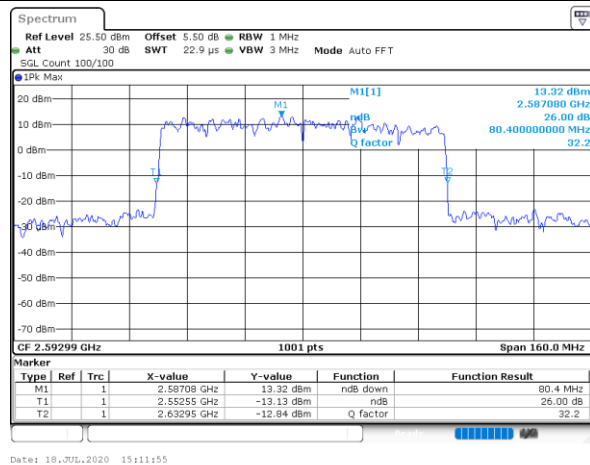
QPSK



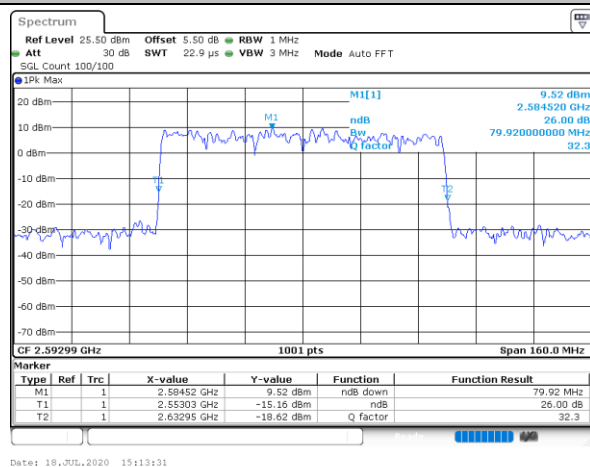
64QAM



16QAM



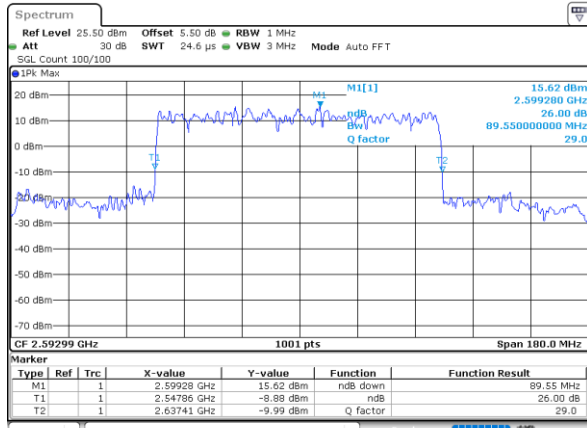
256QAM





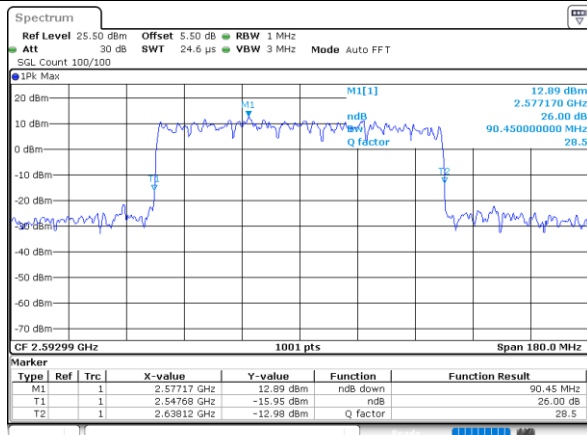
FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



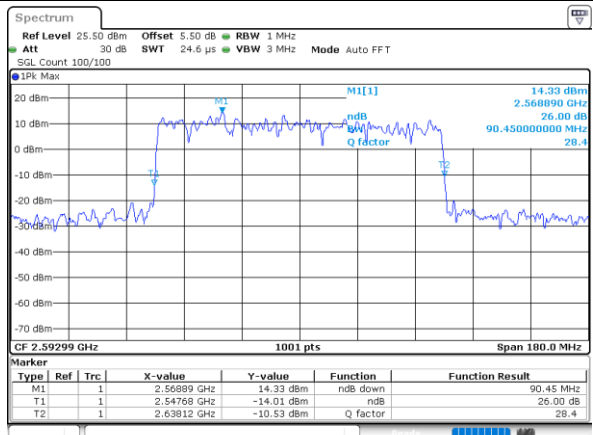
Date: 18.JUL.2020 15:16:30

QPSK



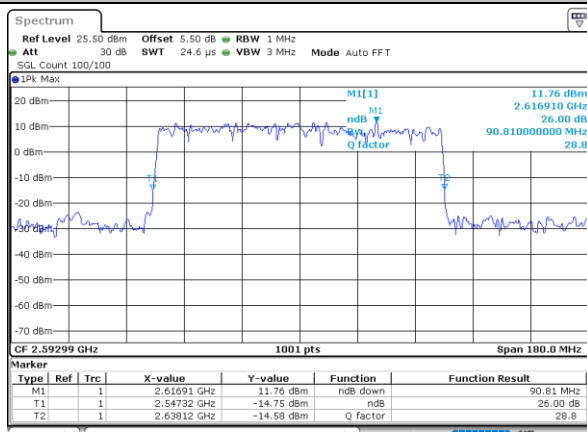
Date: 18.JUL.2020 15:15:42

16QAM



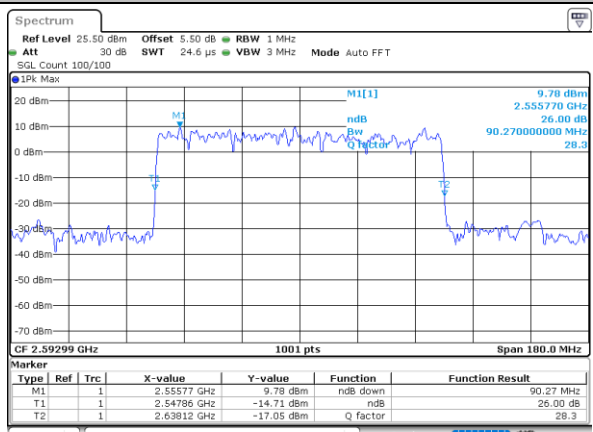
Date: 18.JUL.2020 15:15:11

64QAM



Date: 18.JUL.2020 15:14:42

256QAM

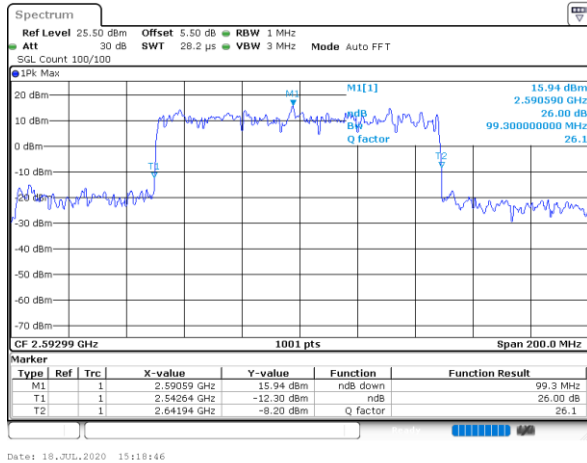


Date: 18.JUL.2020 15:14:07

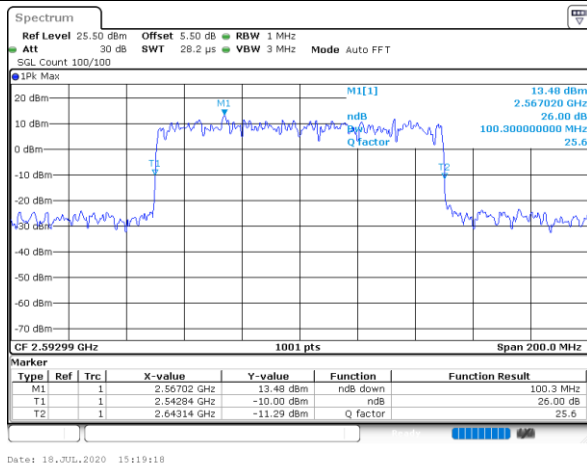


FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel

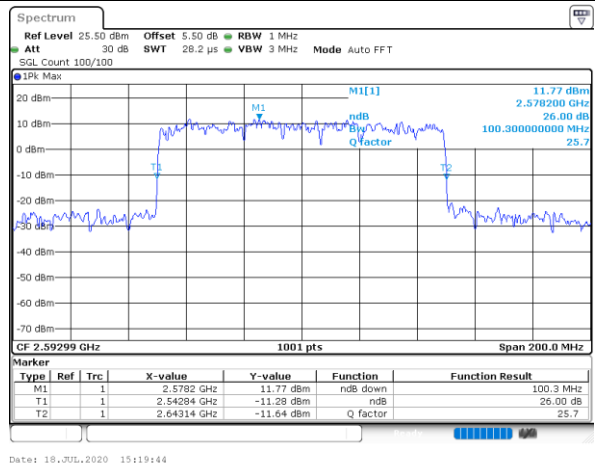
PI/2 BPSK



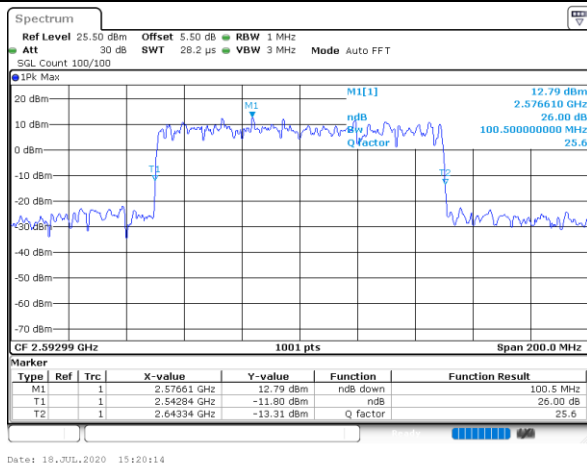
QPSK



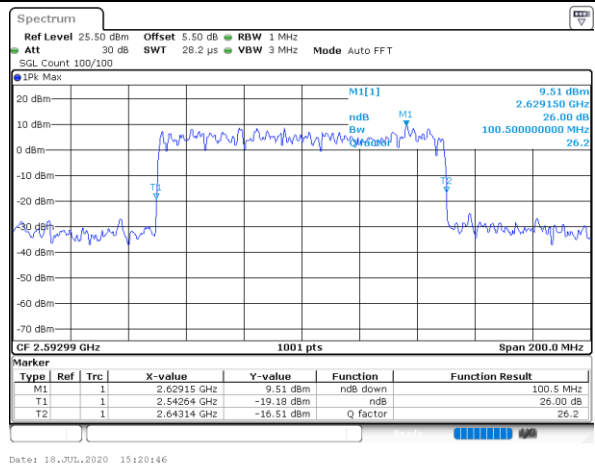
16QAM



64QAM



256QAM



**Occupied Bandwidth**

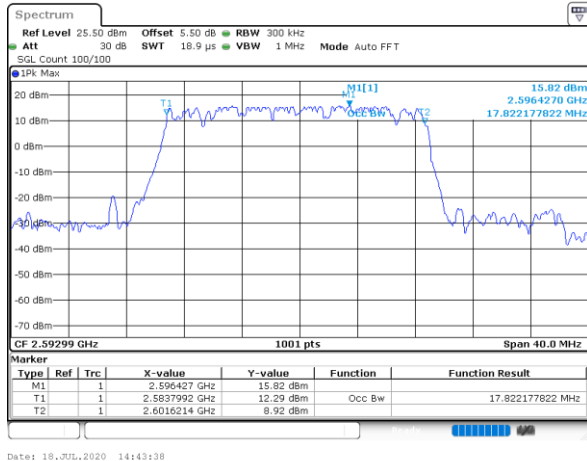
Mode	FR1 n41 : OB BW(MHz) / DFT-S OFDM							
BW	20MHz	40MHz	50MHz	60MHz	80MHz	90MHz	100MHz	
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	
Middle CH	17.82	36.20	45.85	57.66	77.04	87.03	96.50	

Mode	FR1 n41 : OB BW(MHz) / CP OFDM							
BW	20MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.30	18.14	37.88	37.96	47.65	47.75	57.90	57.66
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	18.10	18.14	38.12	37.96	47.65	47.75	57.78	58.02
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	77.52	76.88	87.03	87.21	97.10	97.50		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	77.68	77.20	87.57	87.21	97.10	97.50		

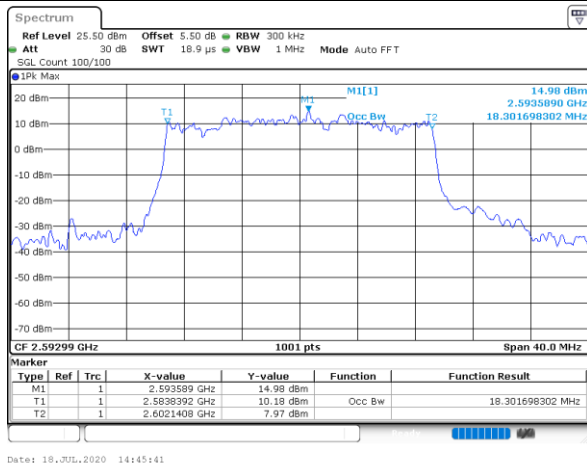


FR1 n41 / 20MHz / DFT-S OFDM / Middle Channel

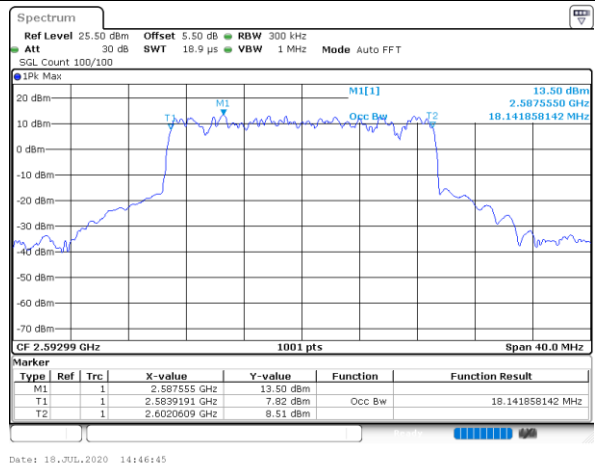
PI/2 BPSK



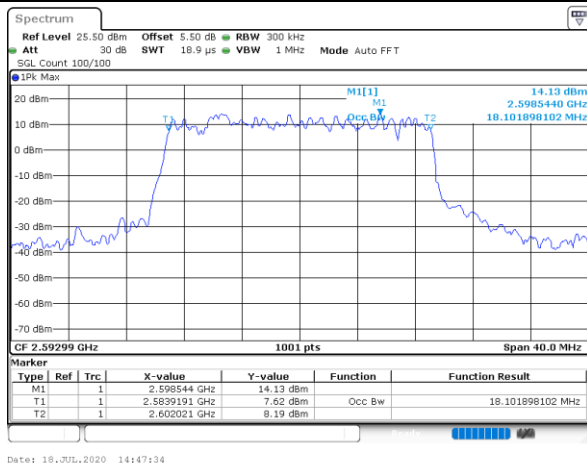
QPSK



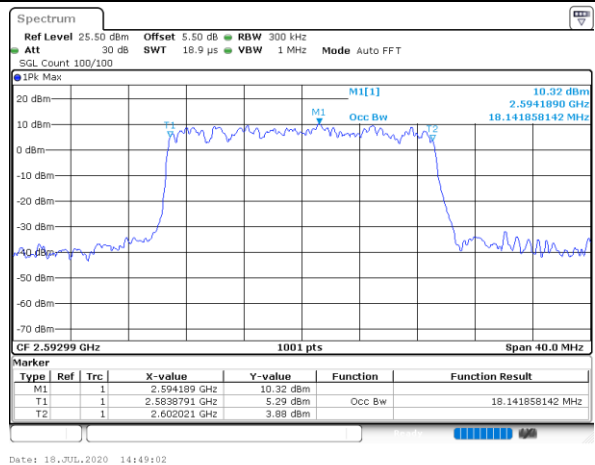
16QAM



64QAM



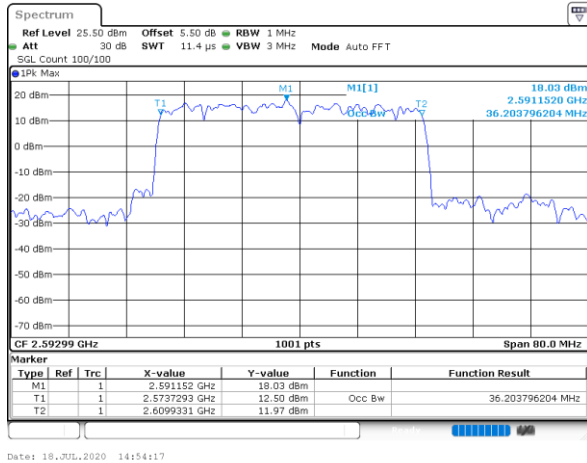
256QAM



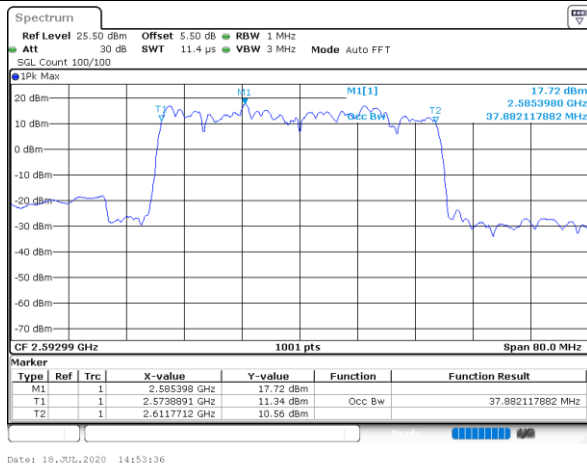


FR1 n41 / 40MHz / DFT-S OFDM / Middle Channel

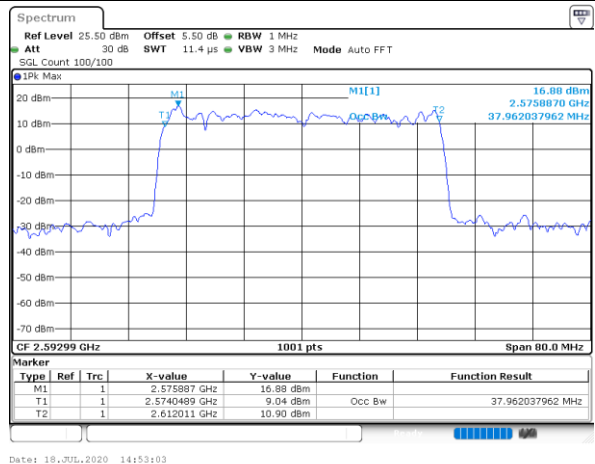
PI/2 BPSK



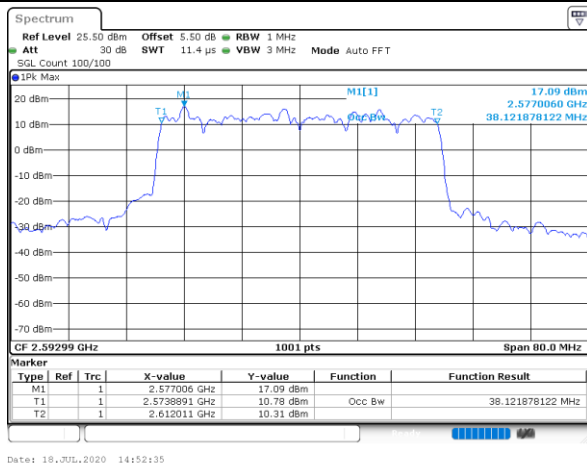
QPSK



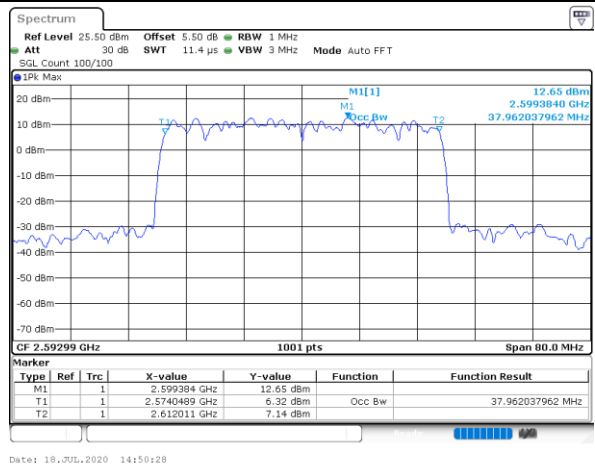
16QAM



64QAM



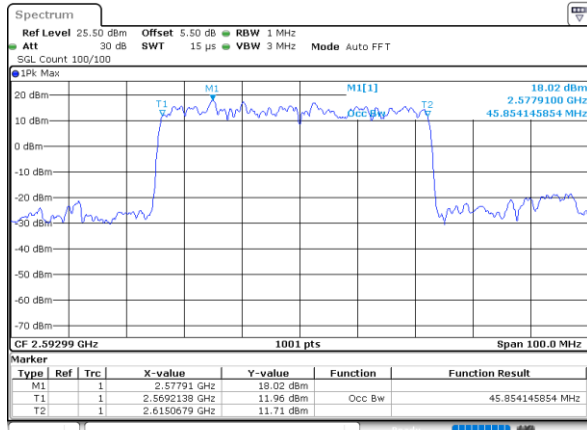
256QAM



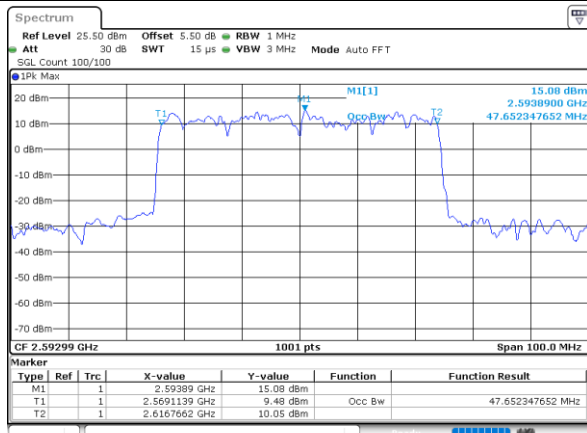


FR1 n41 / 50MHz / DFT-S OFDM / Middle Channel

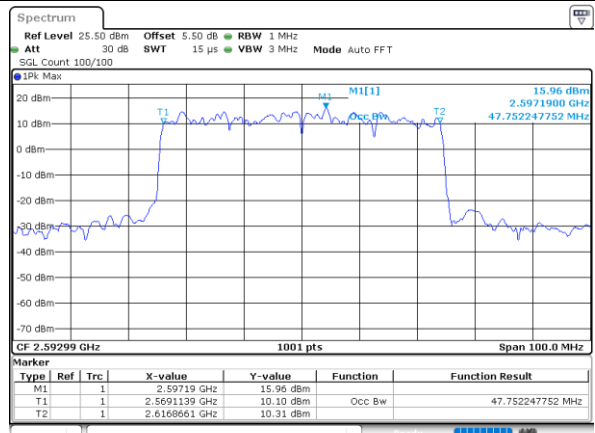
PI/2 BPSK



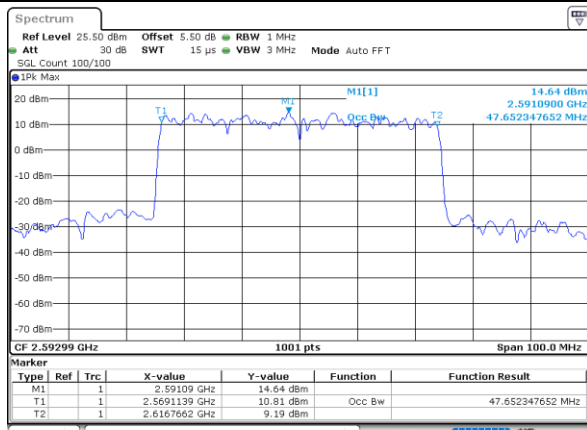
QPSK



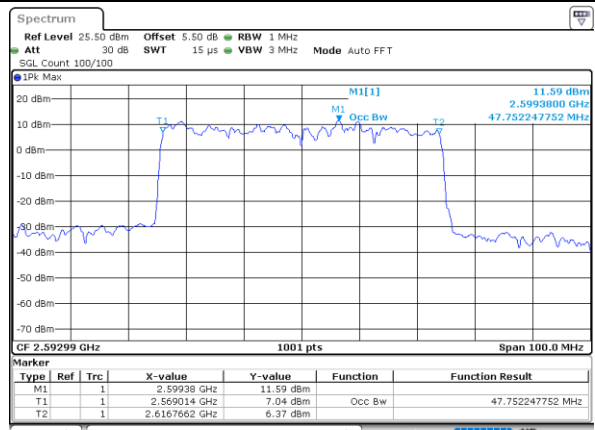
16QAM



64QAM



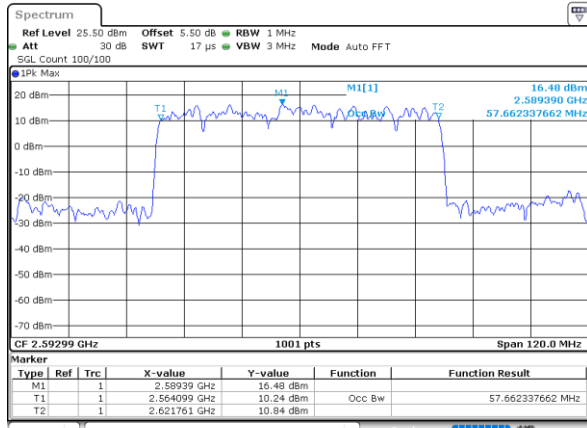
256QAM



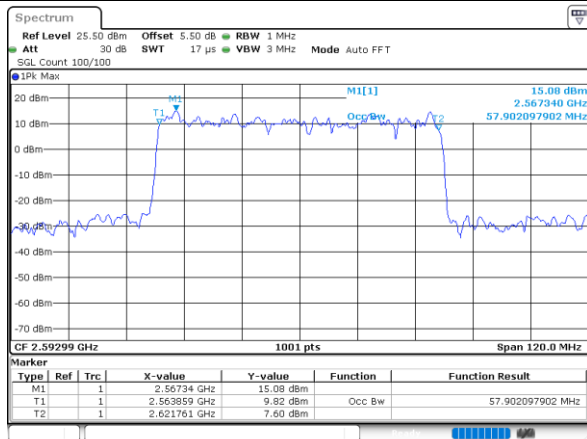


FR1 n41 / 60MHz / DFT-S OFDM / Middle Channel

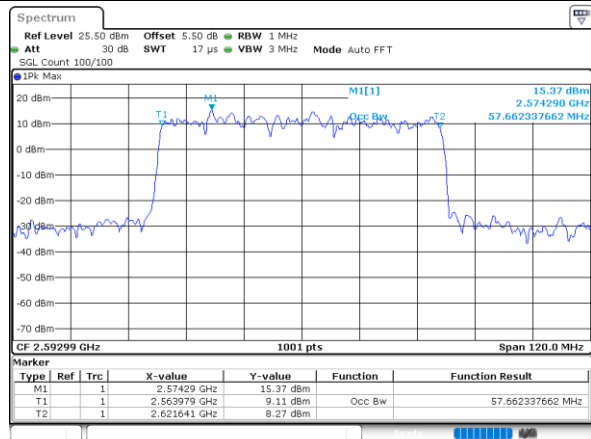
PI/2 BPSK



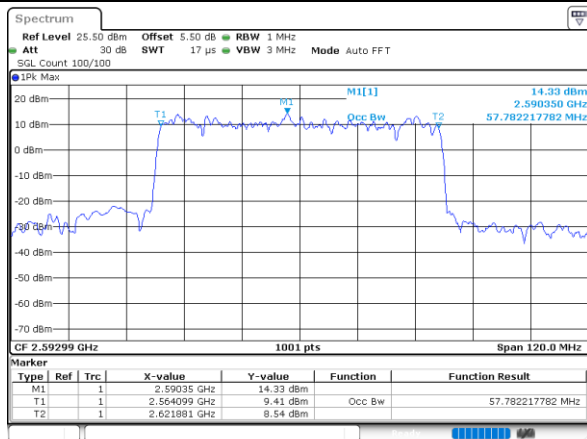
QPSK



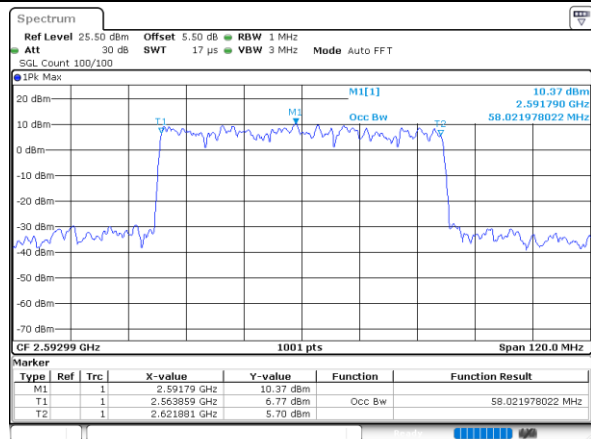
16QAM



64QAM



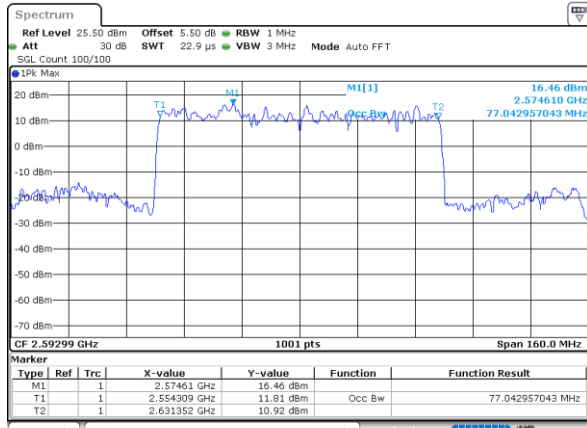
256QAM





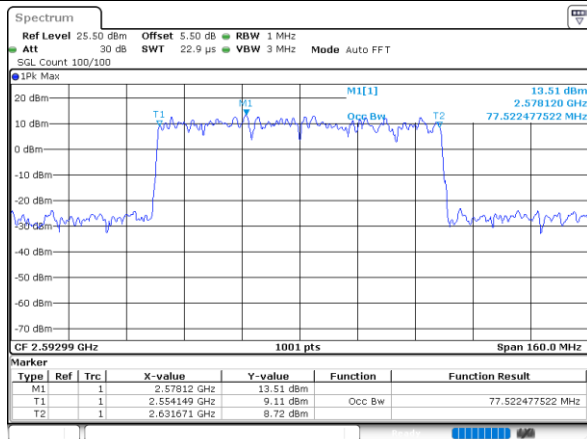
FR1 n41 / 80MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



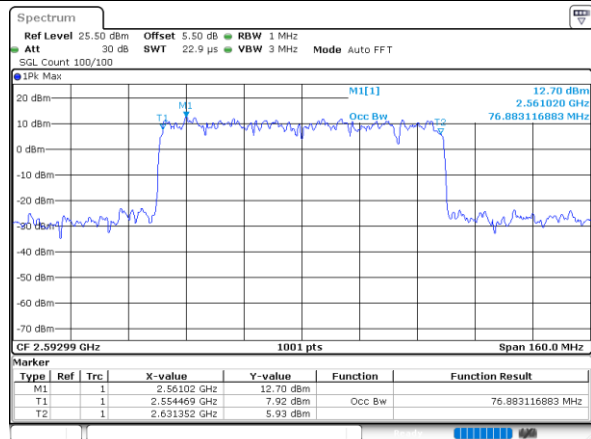
Date: 18.JUL.2020 15:10:39

QPSK



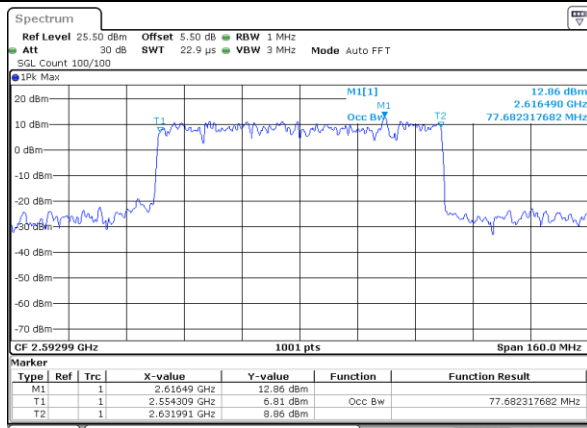
Date: 18.JUL.2020 15:11:17

16QAM



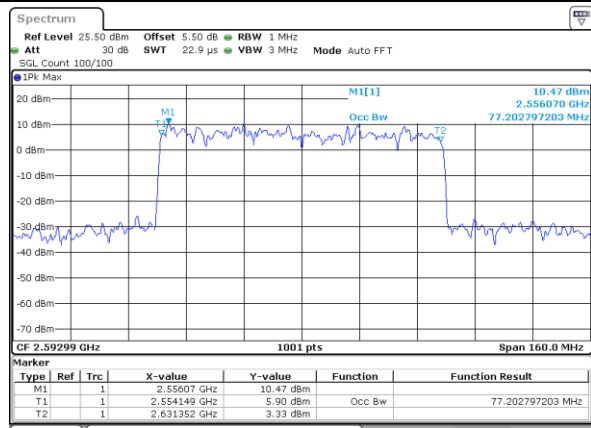
Date: 18.JUL.2020 15:11:49

64QAM



Date: 18.JUL.2020 15:12:44

256QAM

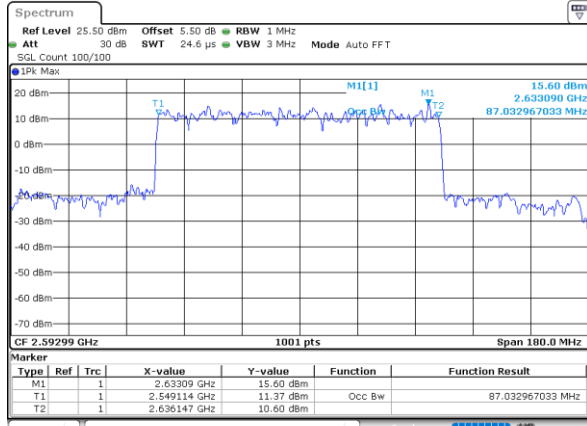


Date: 18.JUL.2020 15:13:24



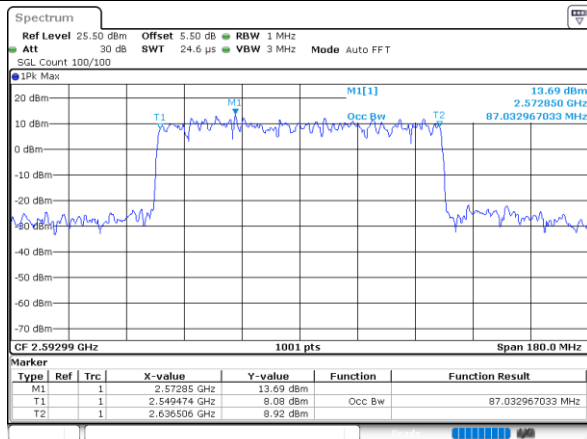
FR1 n41 / 90MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK



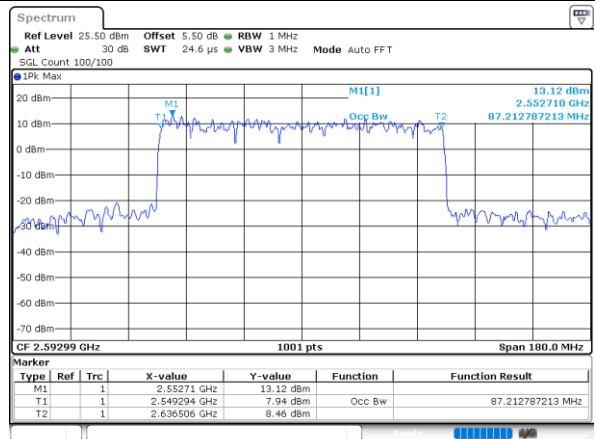
Date: 18.JUL.2020 15:16:24

QPSK



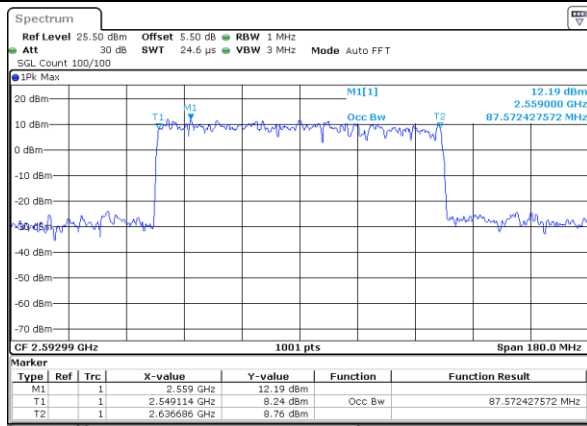
Date: 18.JUL.2020 15:15:33

16QAM



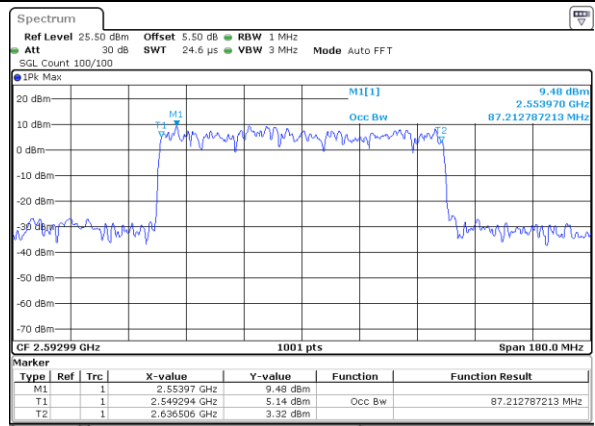
Date: 18.JUL.2020 15:15:03

64QAM



Date: 18.JUL.2020 15:14:36

256QAM

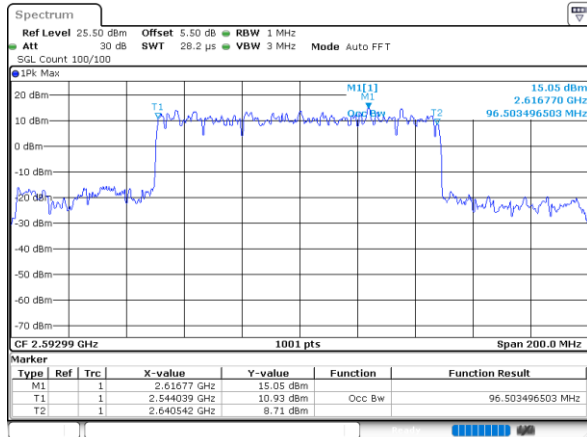


Date: 18.JUL.2020 15:14:01

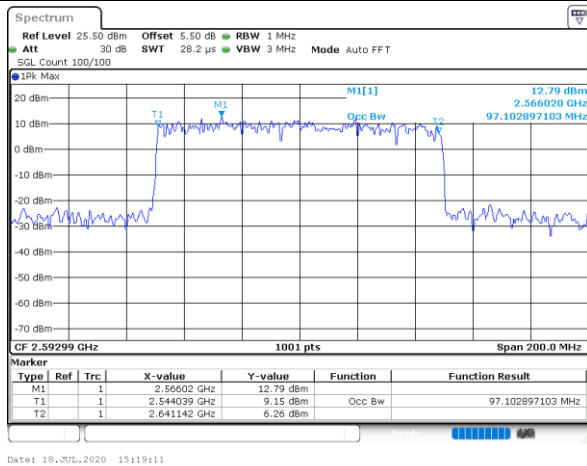


FR1 n41 / 100MHz / DFT-S OFDM / Middle Channel

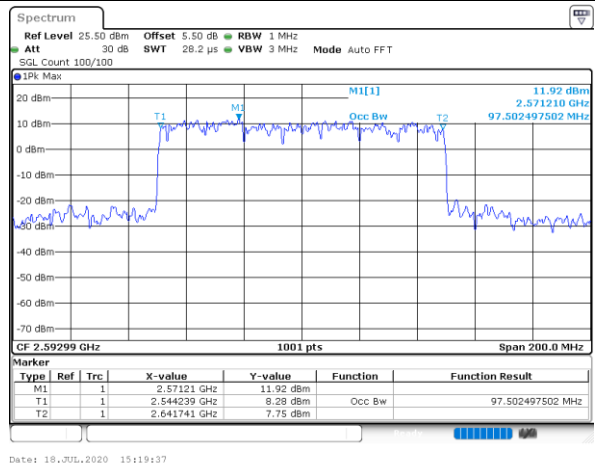
PI/2 BPSK



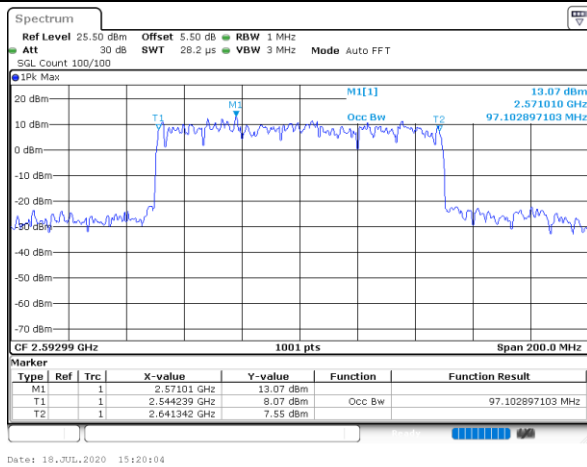
QPSK



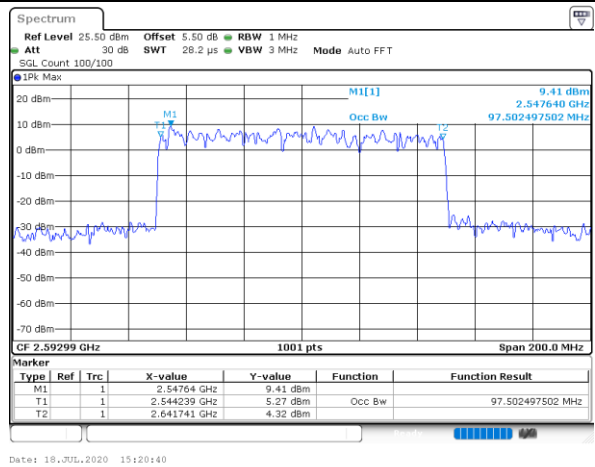
16QAM

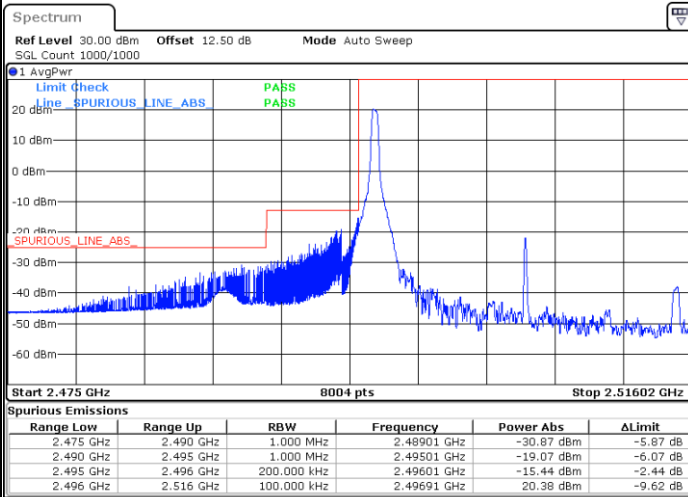


64QAM

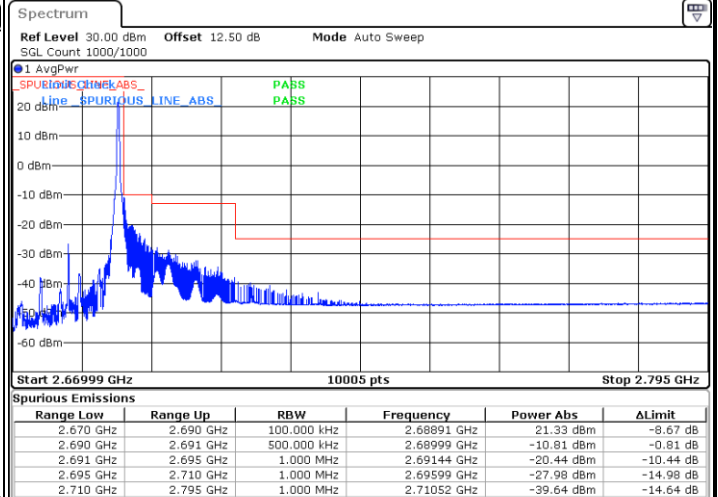


256QAM

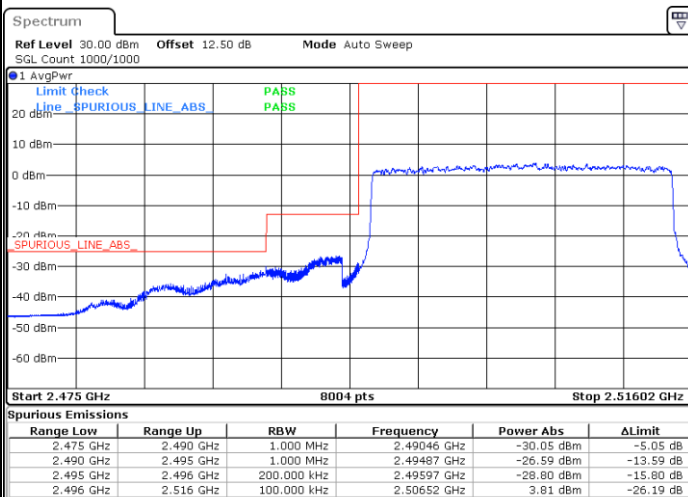


**Conducted Band Edge****FR1 n41 / 20MHz / DFT-S OFDM / PI/2 BPSK****Lowest Band Edge / 1RB0****Highest Band Edge / 1RBmax**

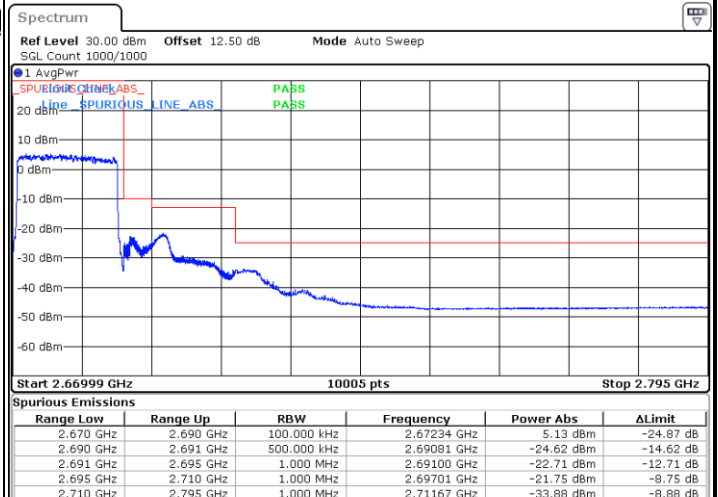
Date: 17.JUL.2020 04:41:31



Date: 17.JUL.2020 05:37:40

Lowest Band Edge / Full RB**Highest Band Edge / Full RB**

Date: 17.JUL.2020 04:23:15



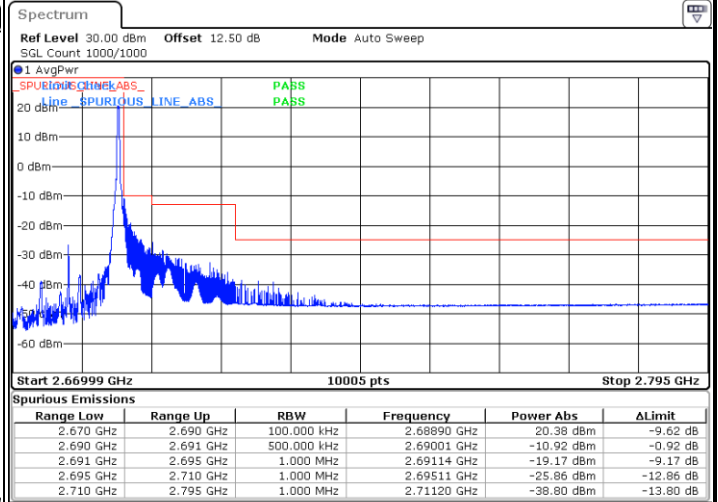
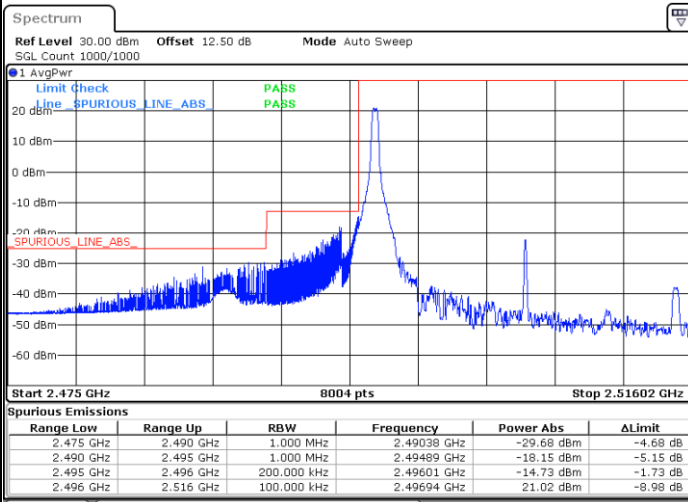
Date: 17.JUL.2020 05:35:40



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

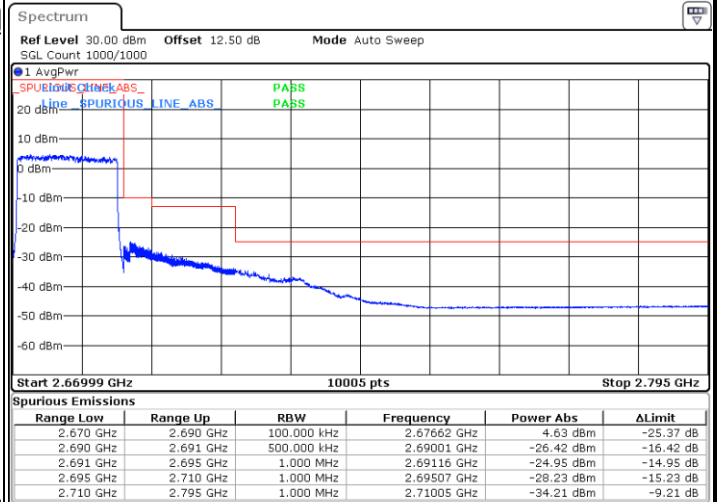
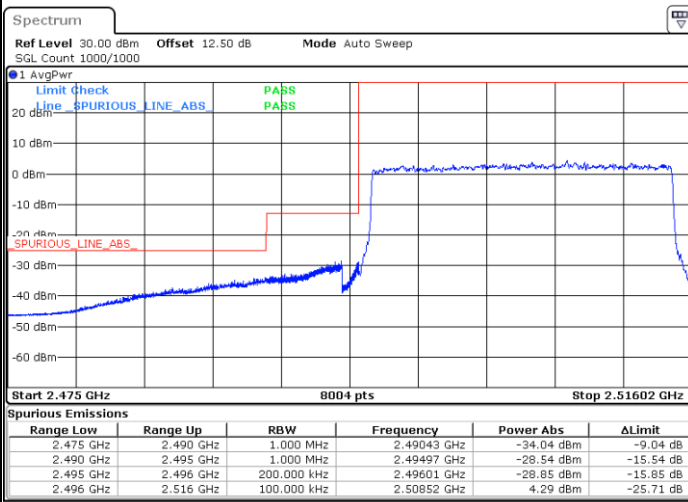
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

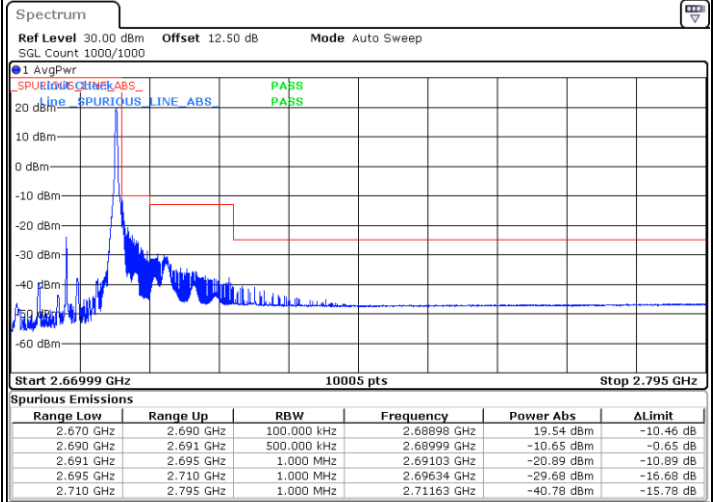
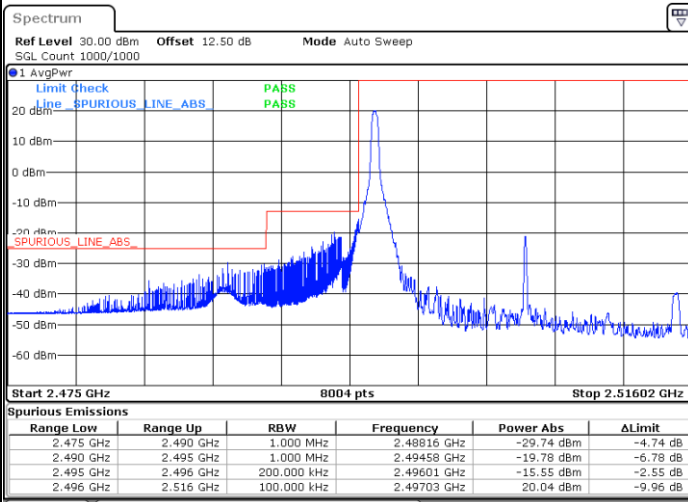




FR1 n41 / 20MHz / DFT-S OFDM / 16QAM

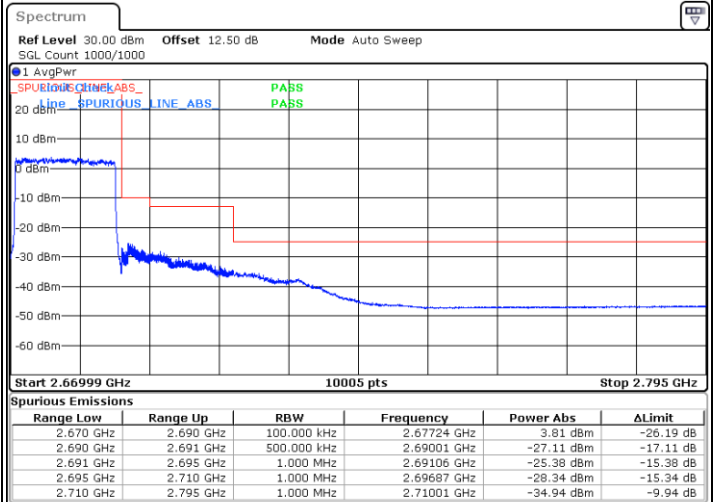
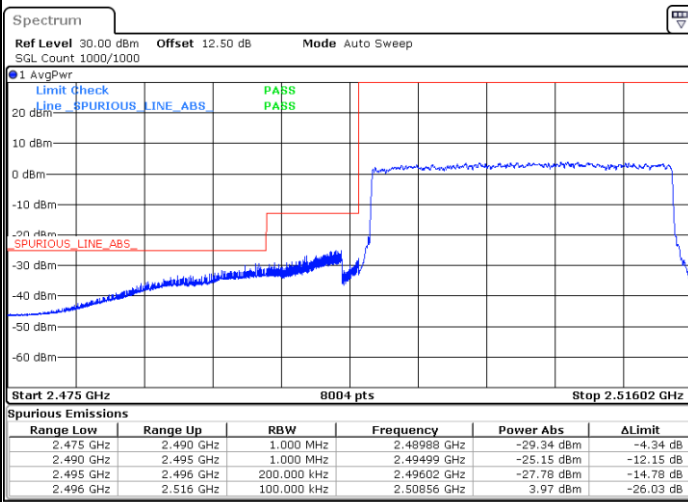
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

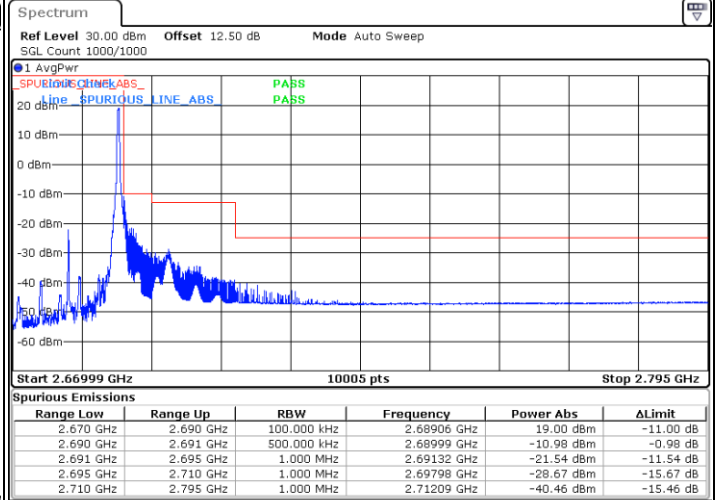
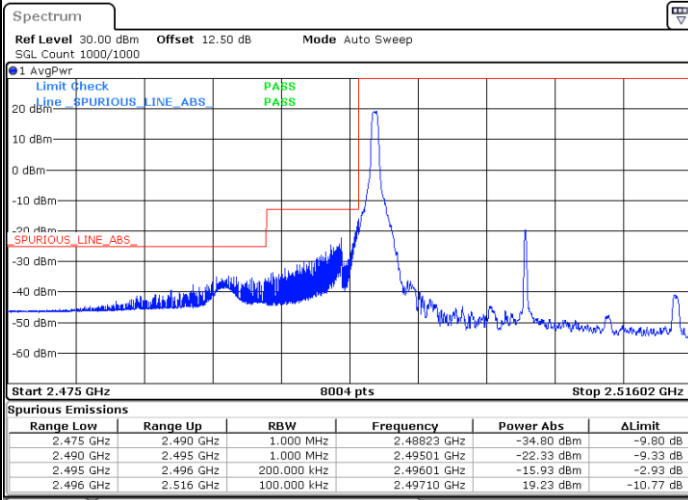




FR1 n41 / 20MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

