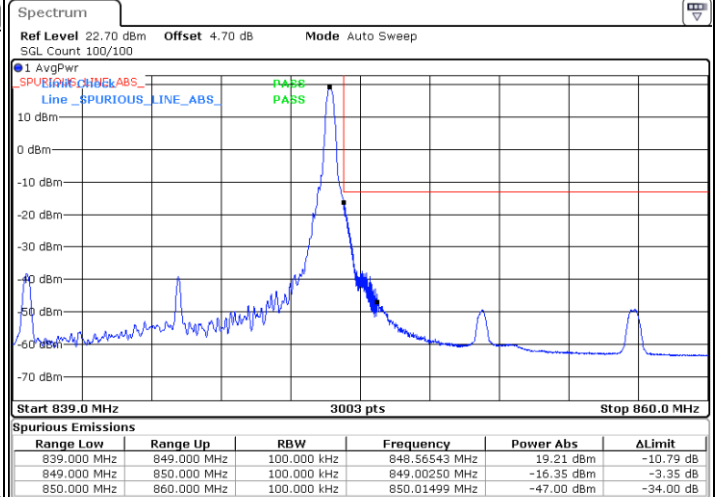
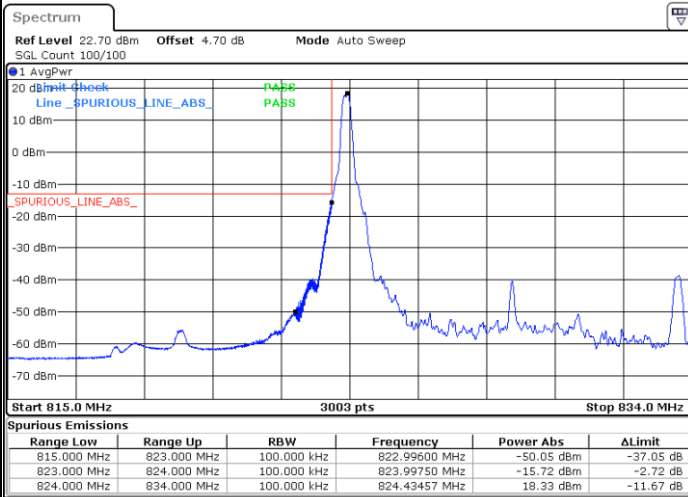




FR1 n5 / 10MHz / DFT-s-OFDM / QPSK

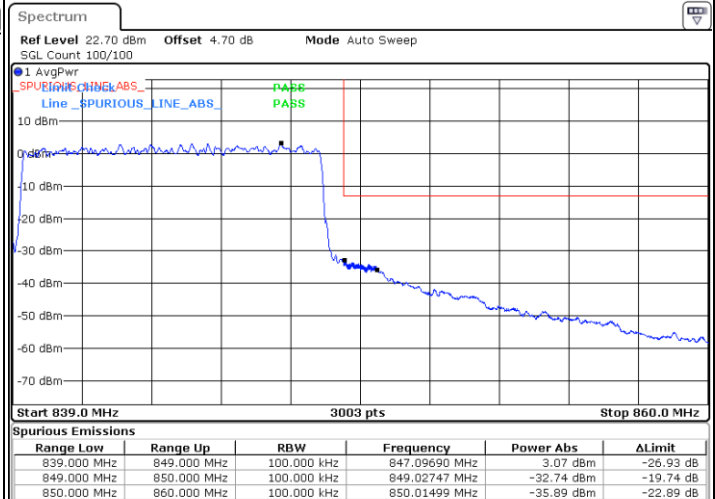
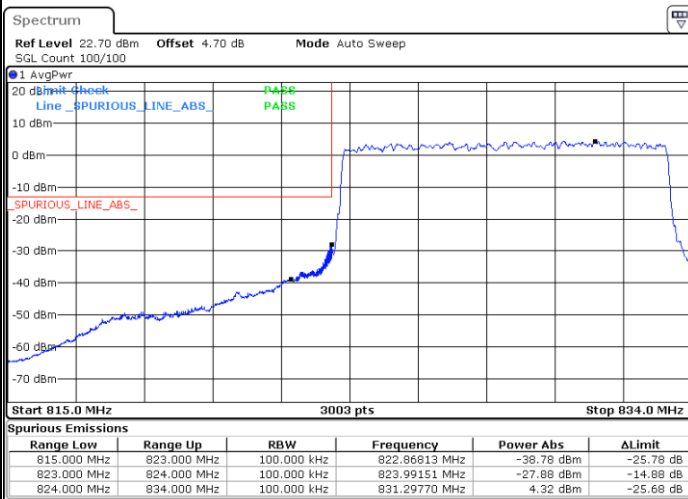
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

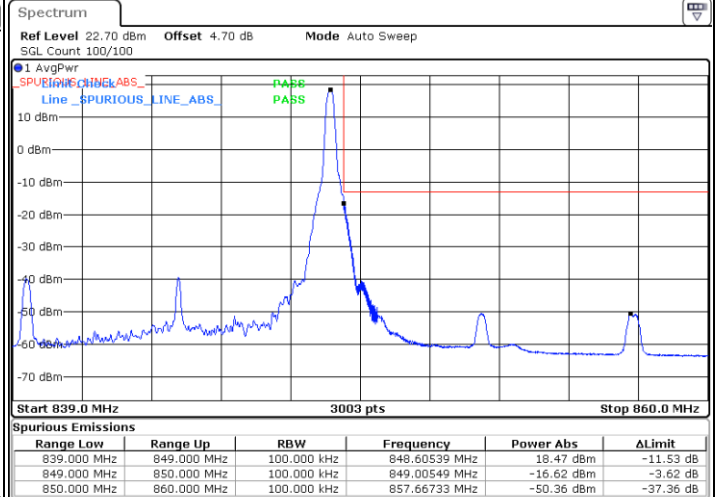
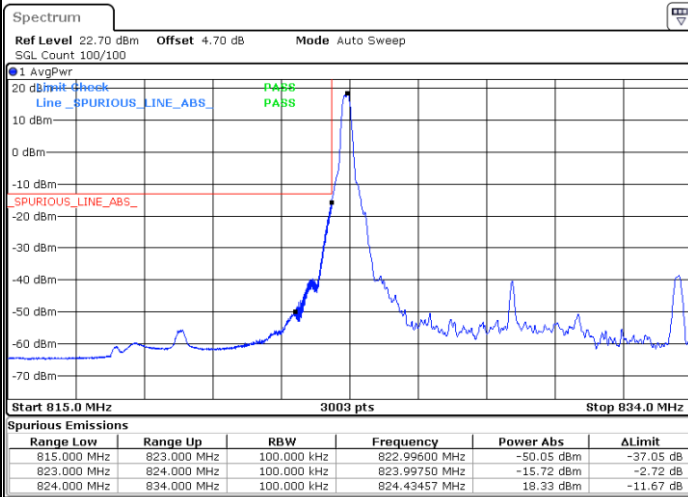




FR1 n5 / 10MHz / DFT-s-OFDM / 16QAM

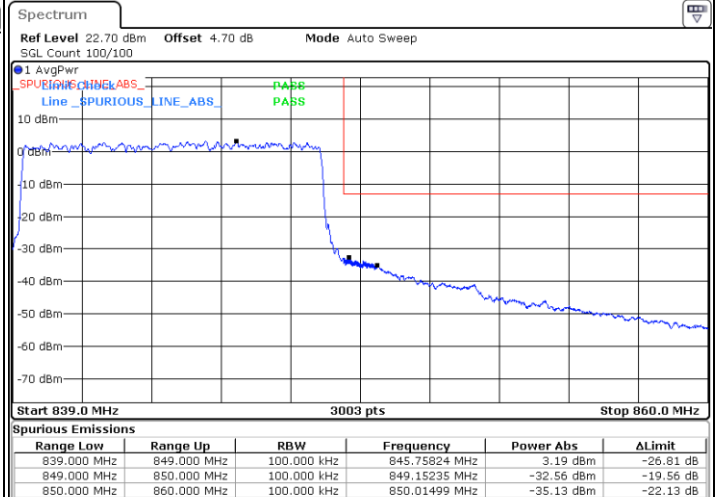
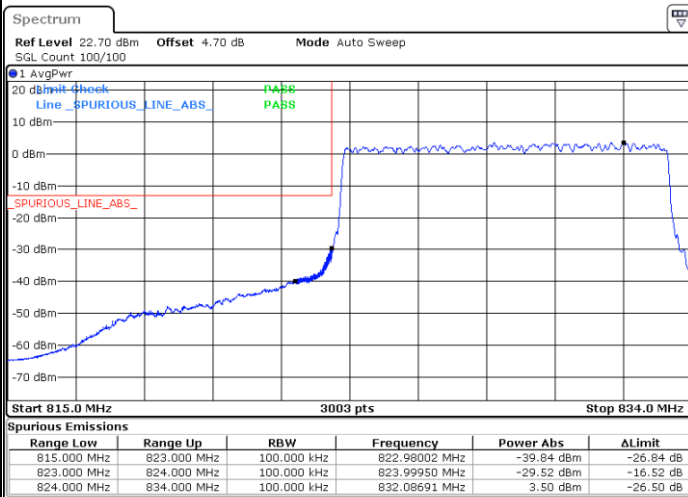
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

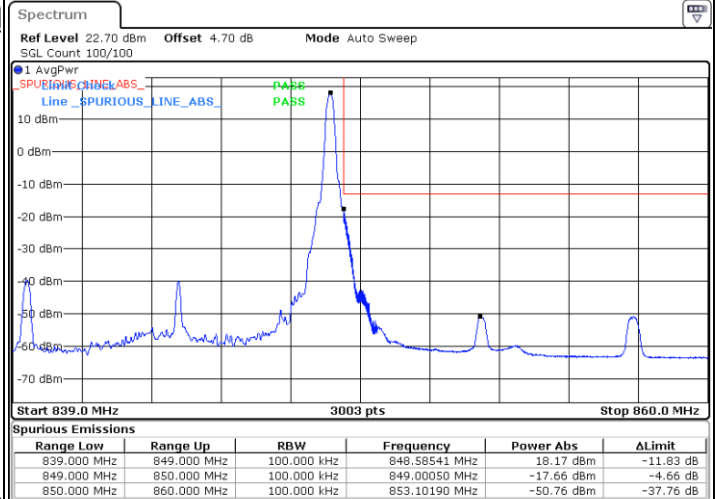
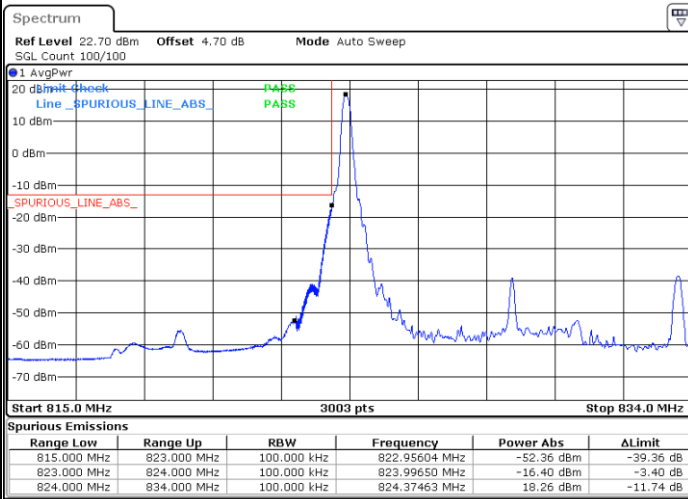




FR1 n5 / 10MHz / DFT-s-OFDM / 64QAM

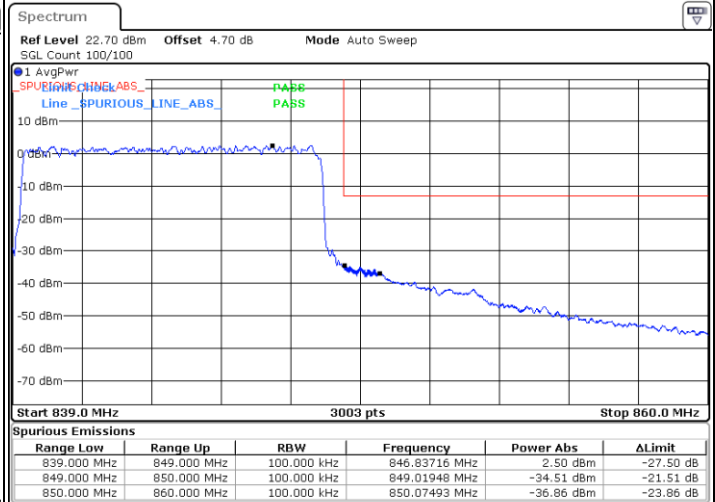
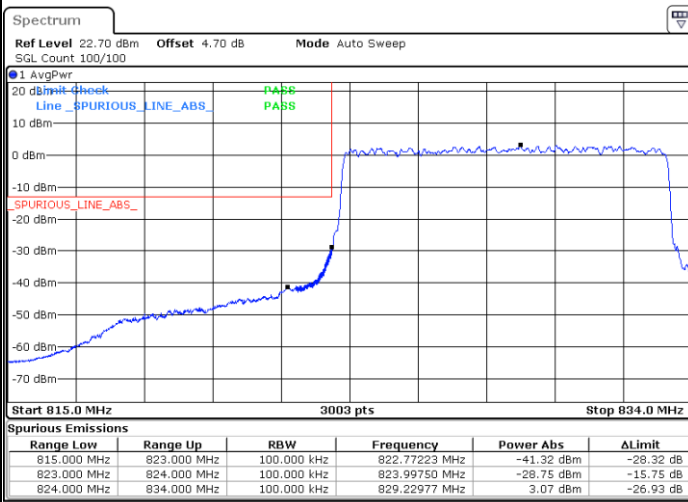
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

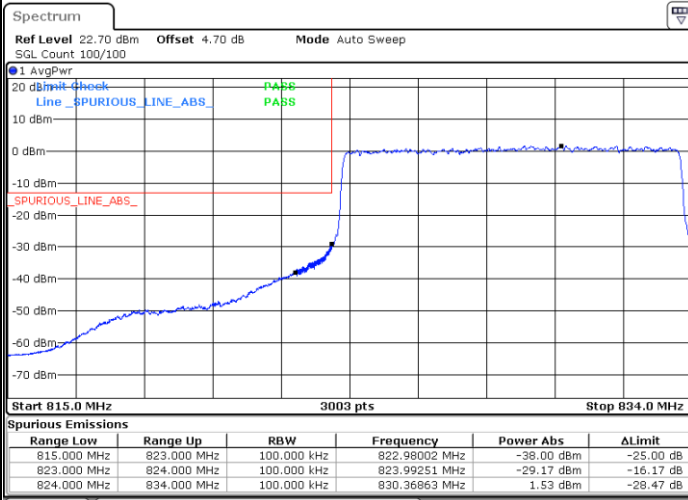




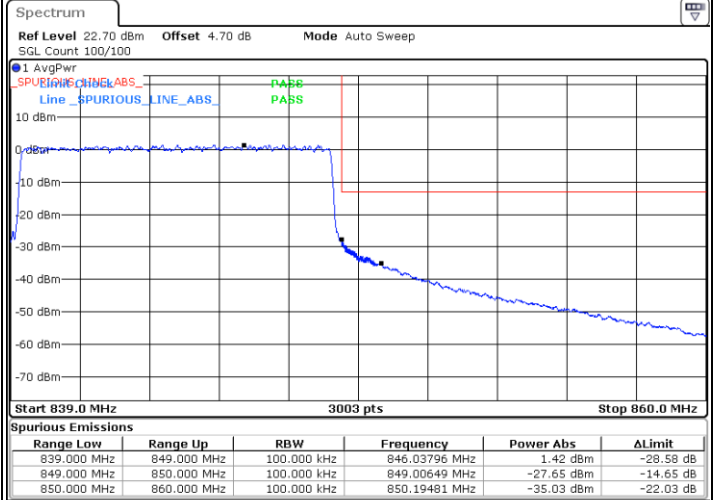
FR1 n5 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.JUL.2020 01:29:21



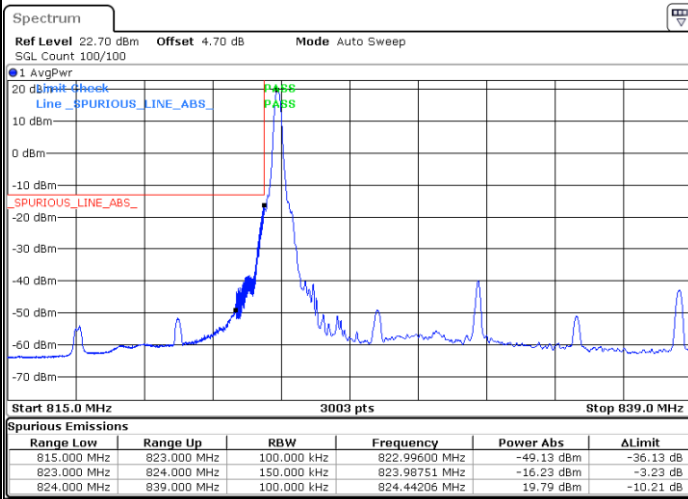
Date: 3.JUL.2020 01:30:29



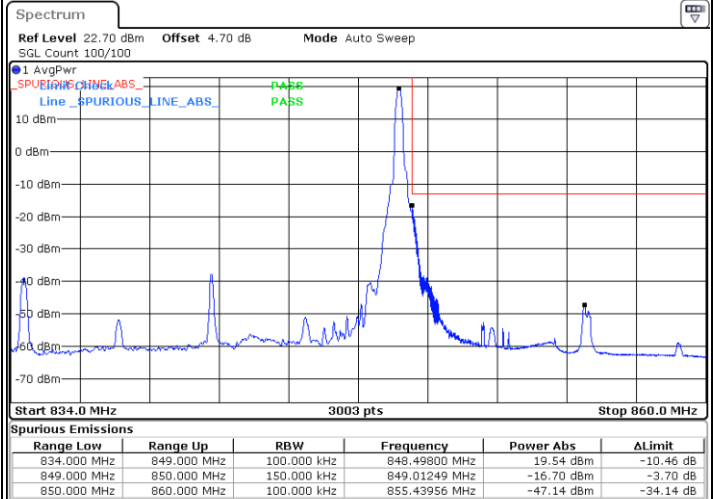
FR1 n5 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



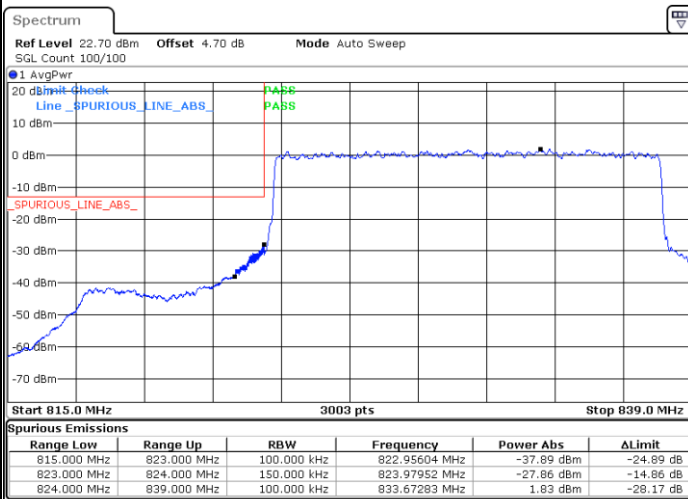
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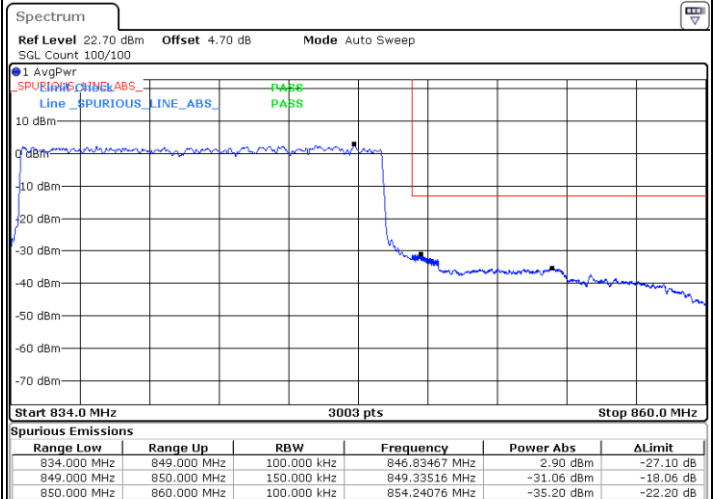
Date: 3.JUL.2020 01:10:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 2.JUL.2020 23:57:11



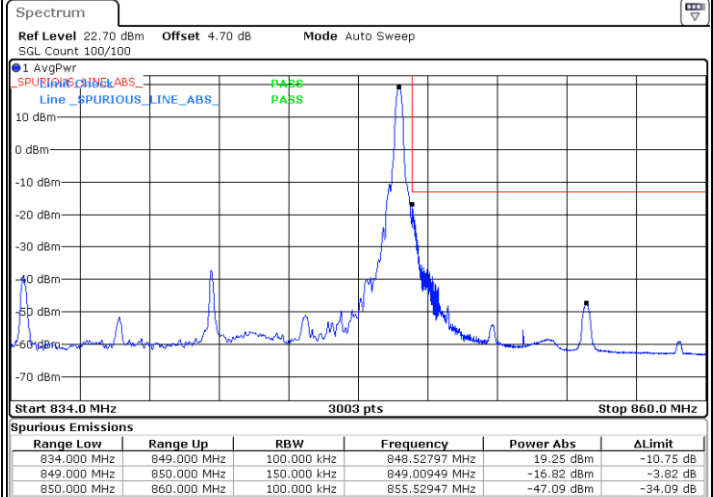
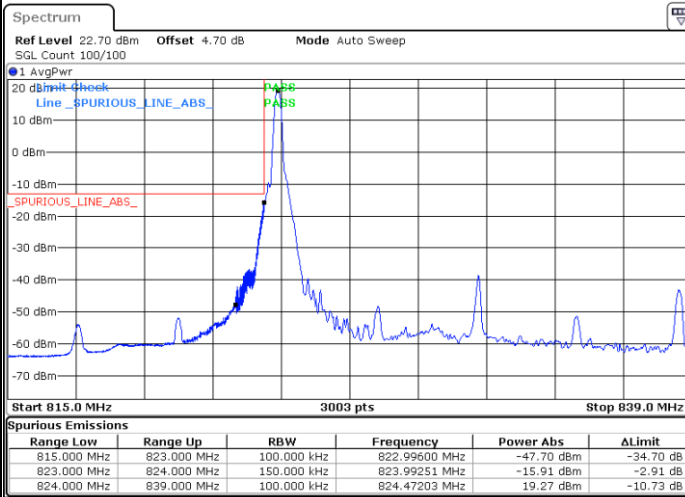
Date: 3.JUL.2020 01:24:03



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

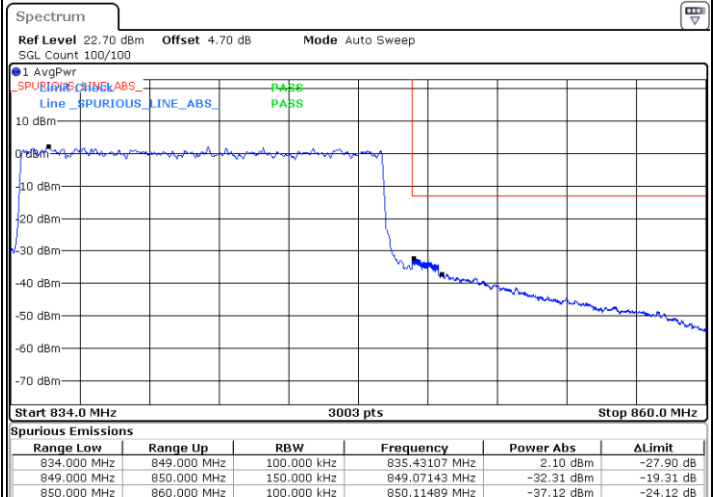
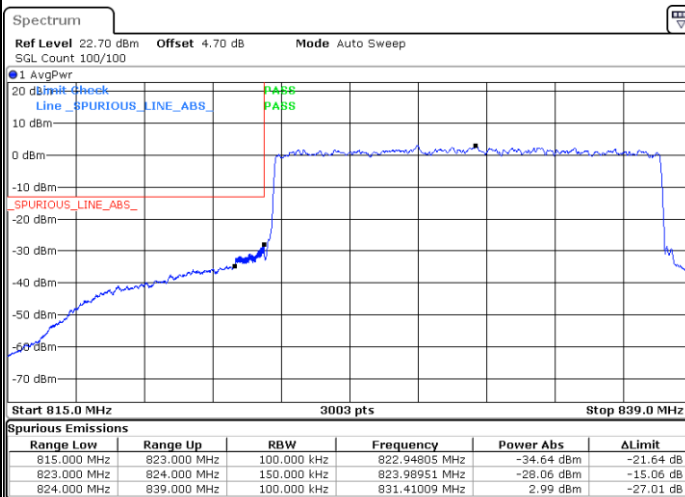
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

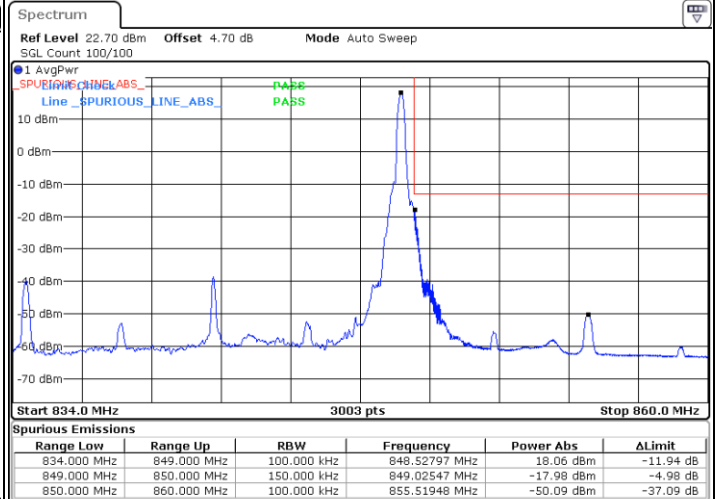
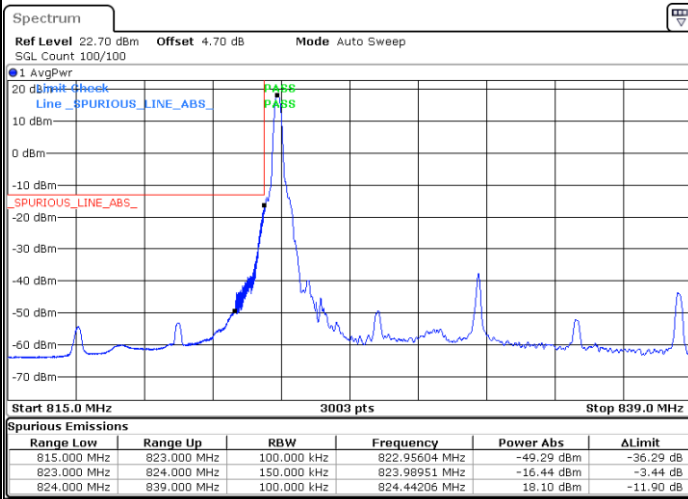




FR1 n5 / 15MHz / DFT-s-OFDM / 16QAM

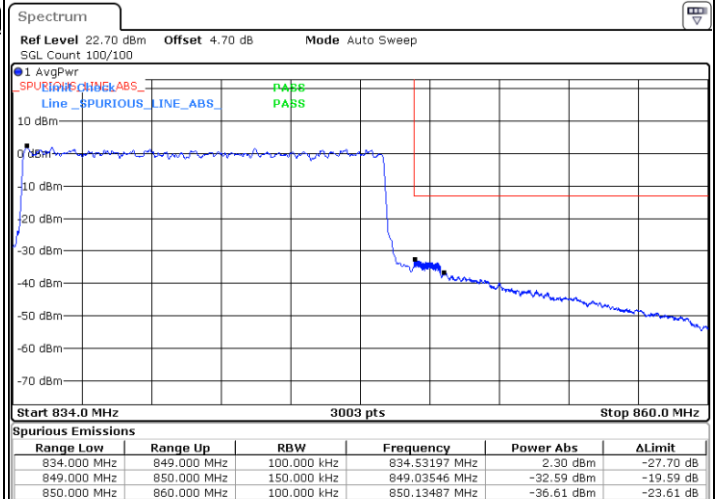
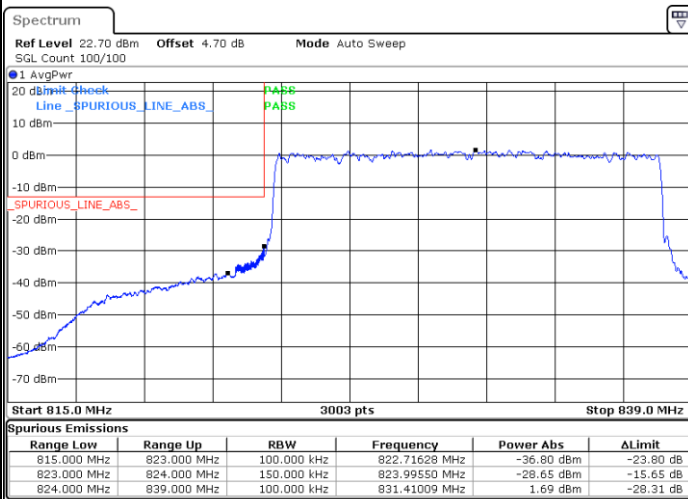
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

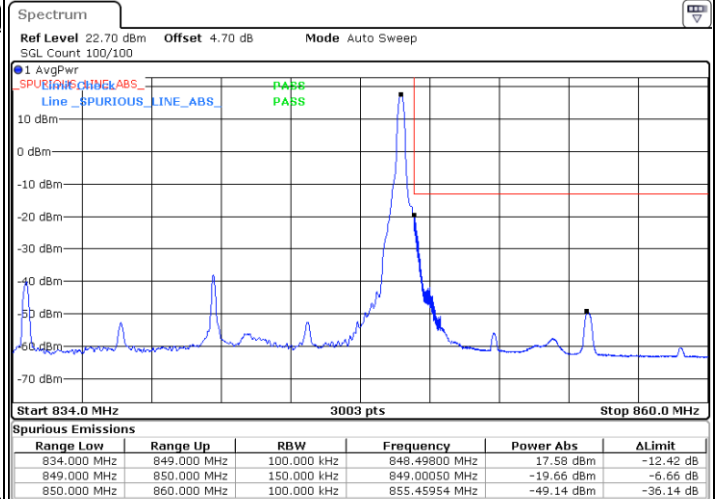
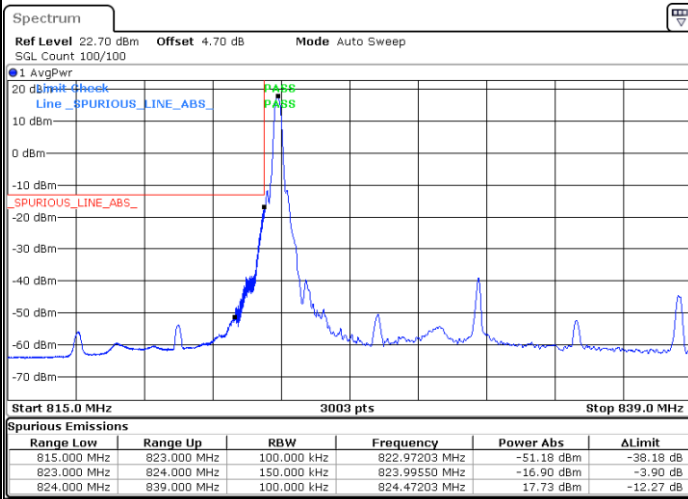




FR1 n5 / 15MHz / DFT-s-OFDM / 64QAM

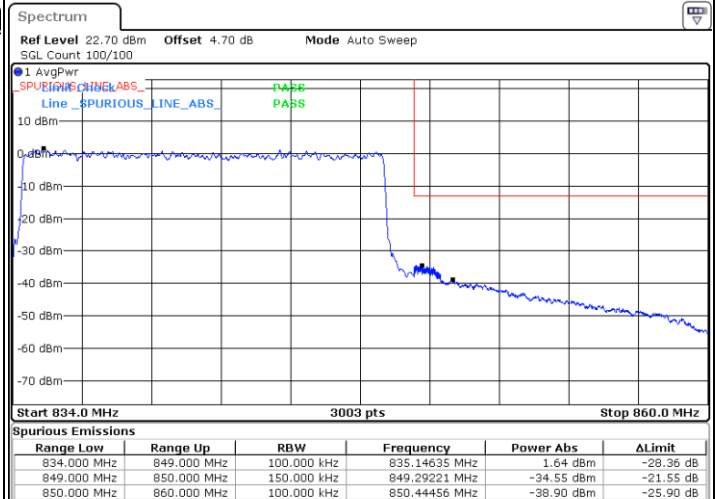
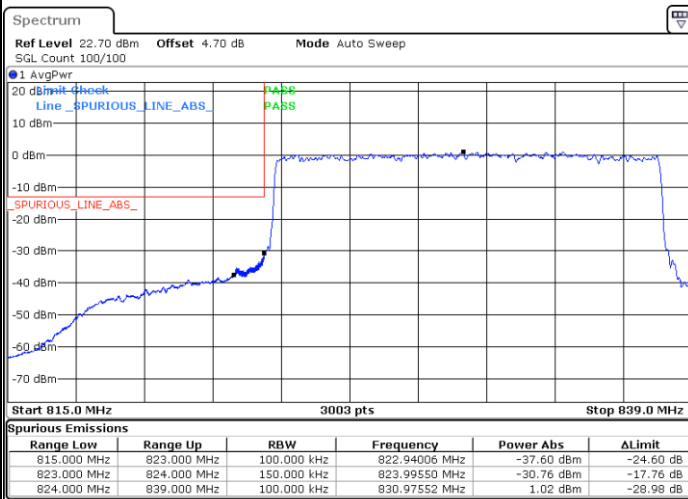
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

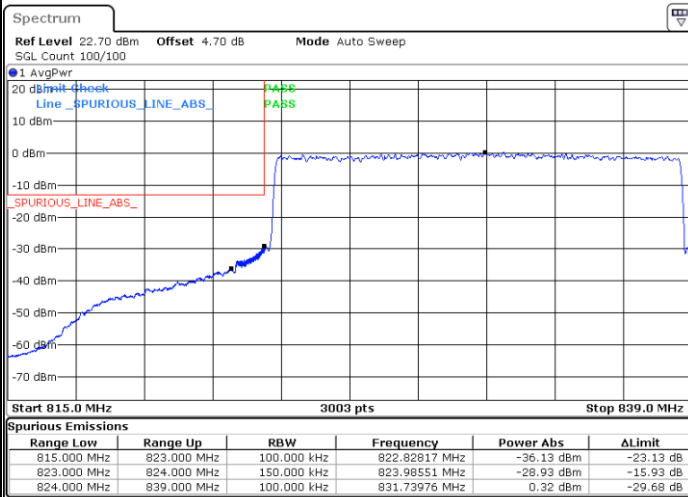




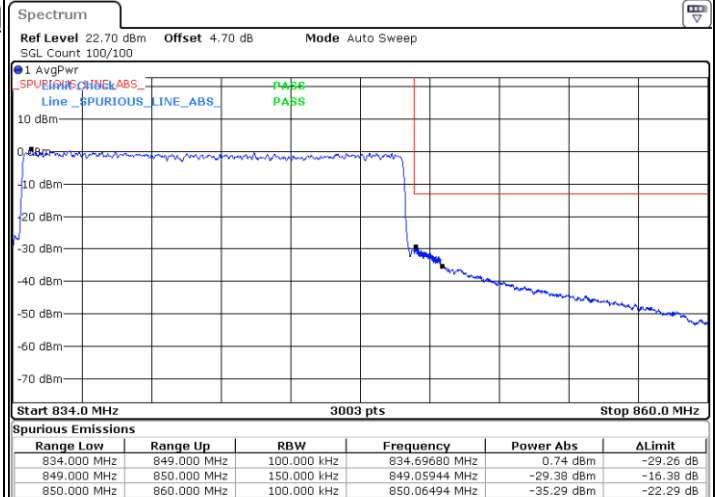
FR1 n5 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 3.JUL.2020 01:27:21



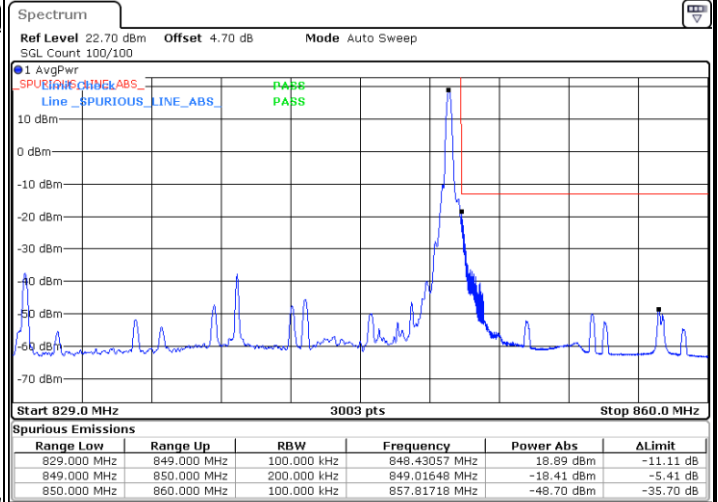
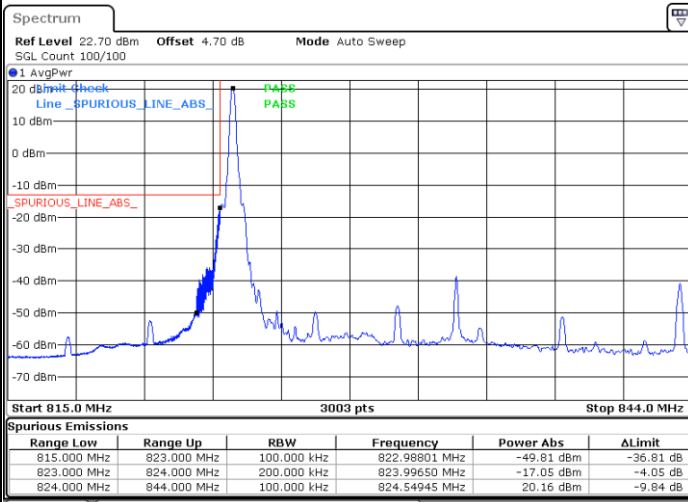
Date: 3.JUL.2020 01:25:39



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

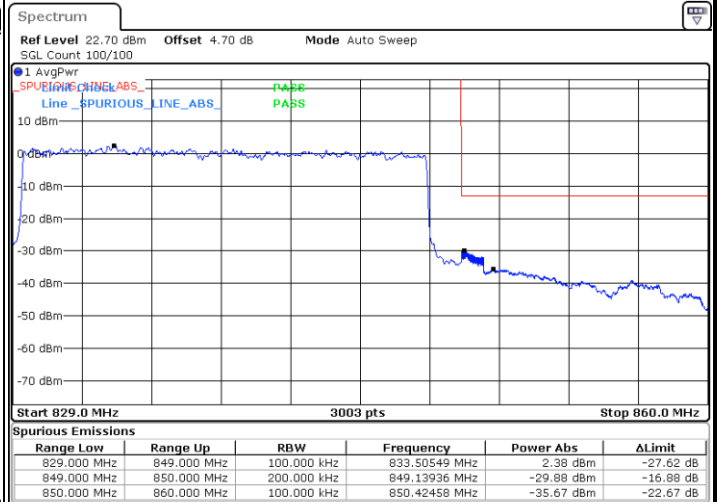
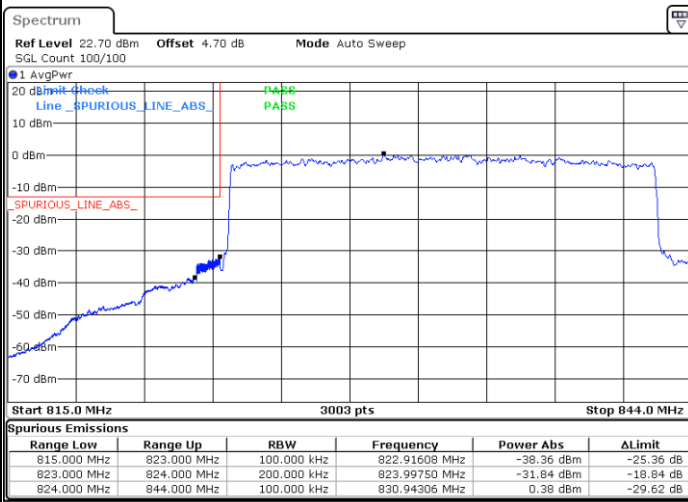
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

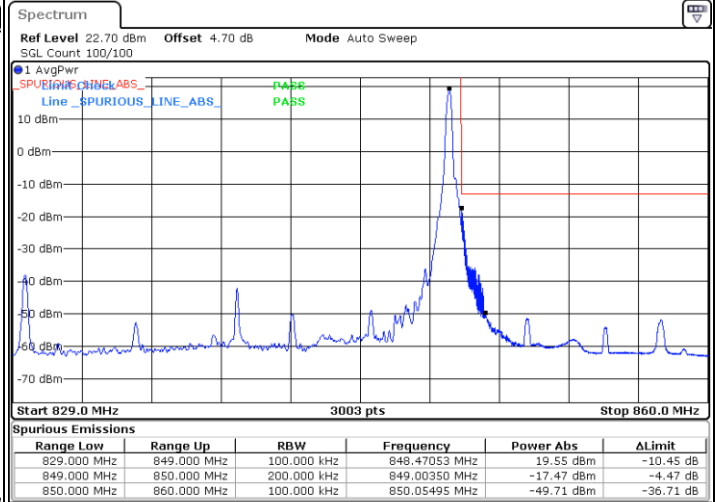
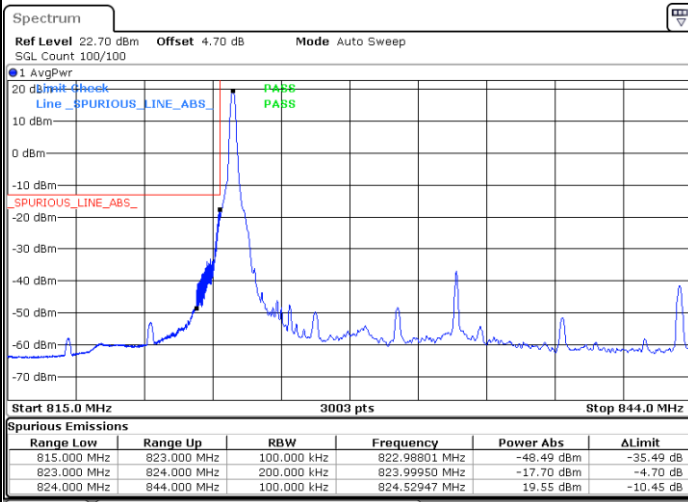




FR1 n5 / 20MHz / DFT-s-OFDM / QPSK

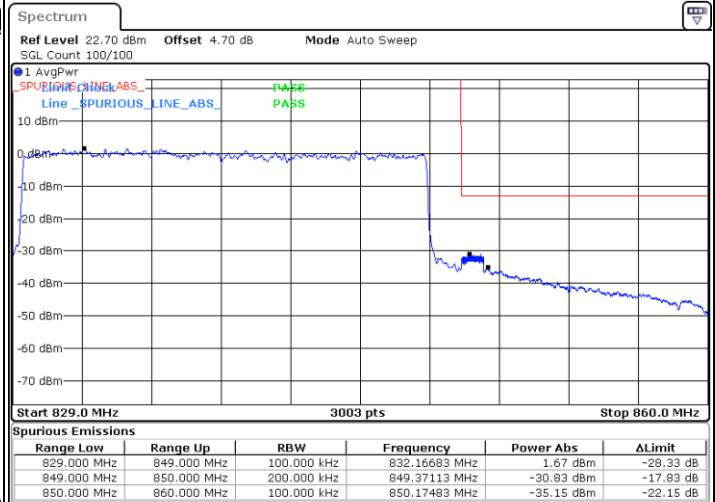
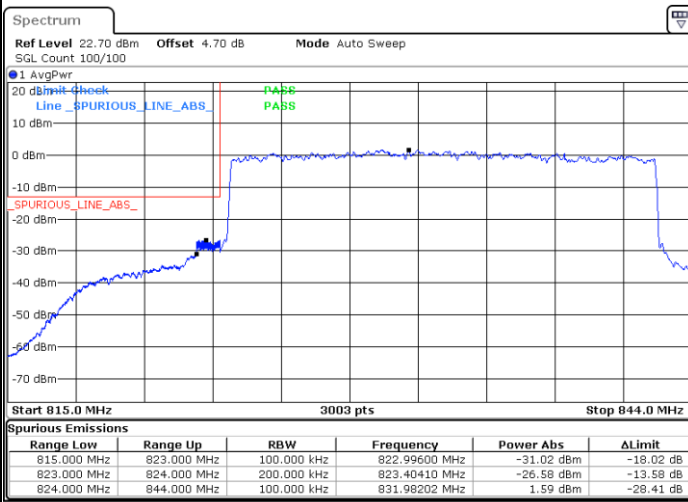
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

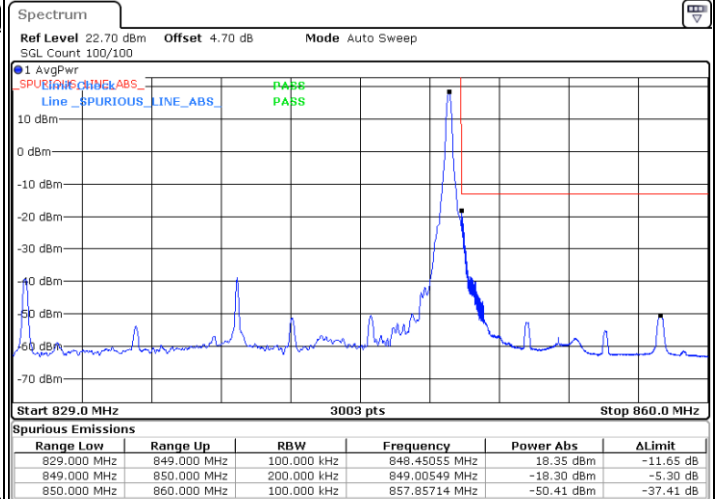
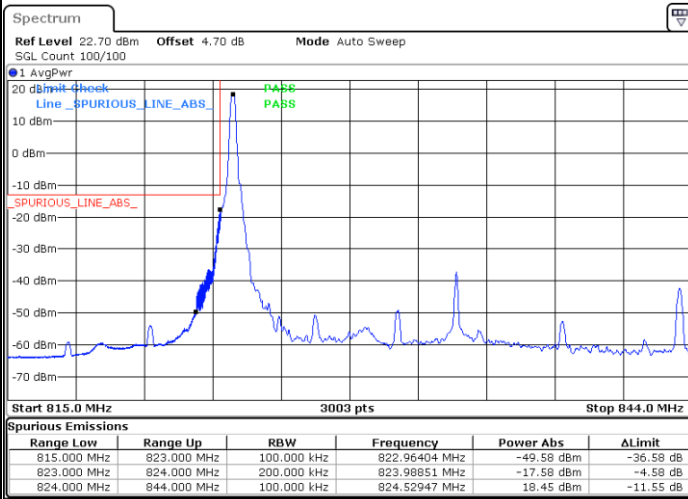




FR1 n5 / 20MHz / DFT-s-OFDM / 16QAM

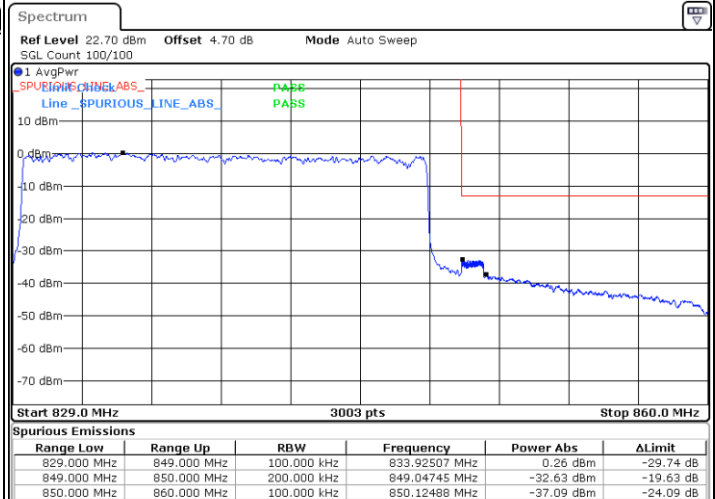
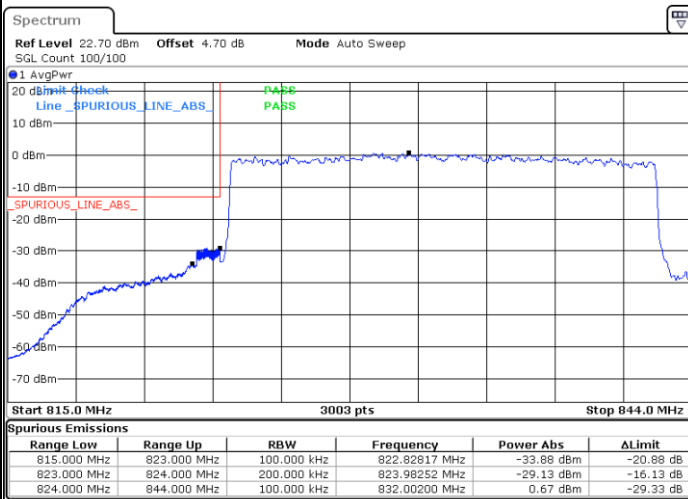
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

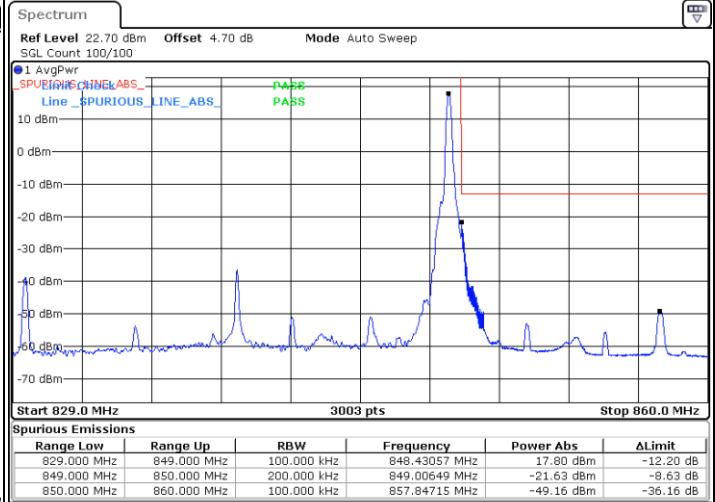
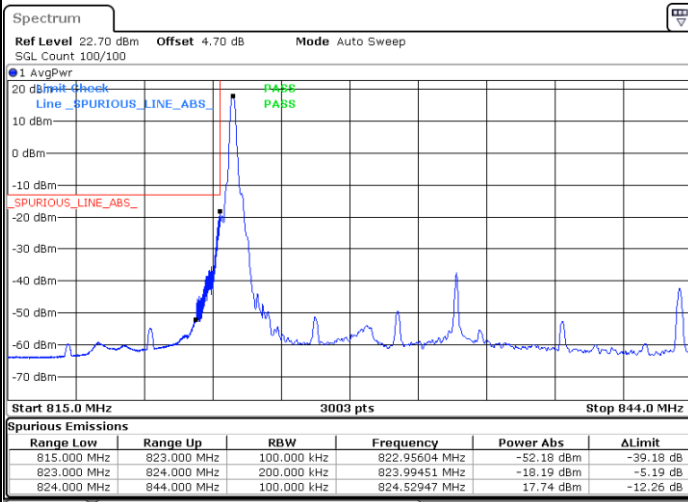




FR1 n5 / 20MHz / DFT-s-OFDM / 64QAM

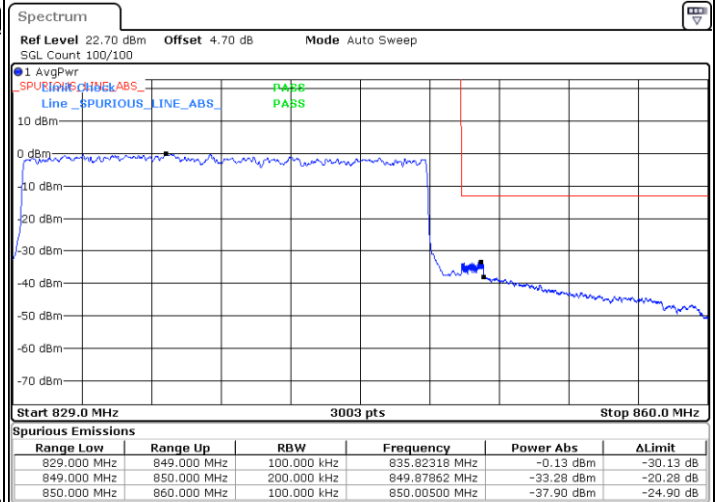
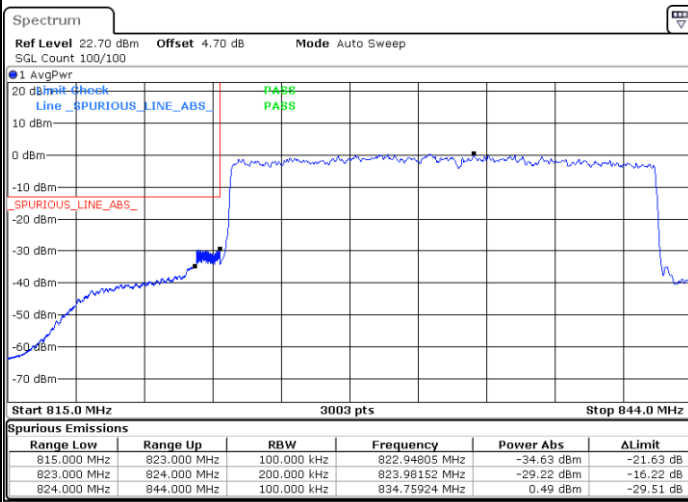
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

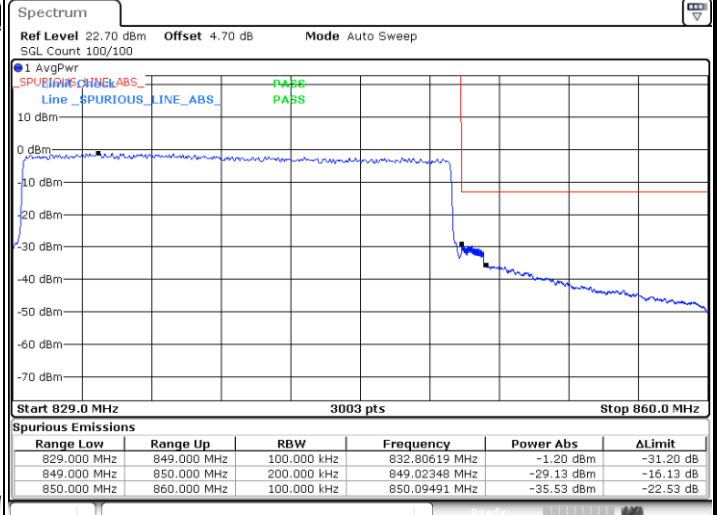
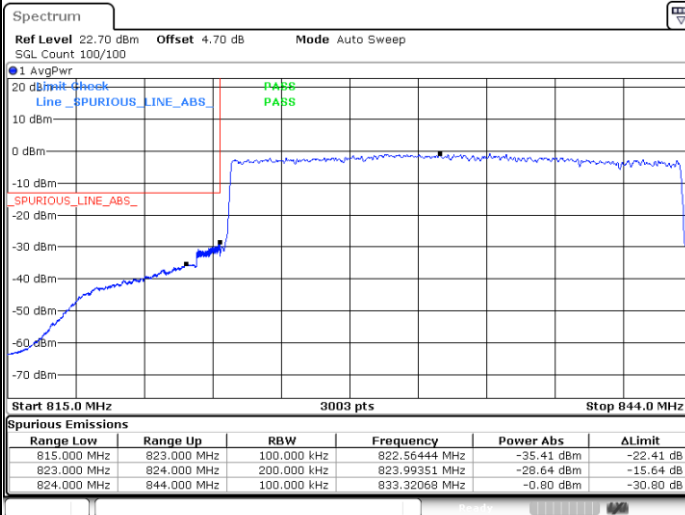




FR1 n5 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

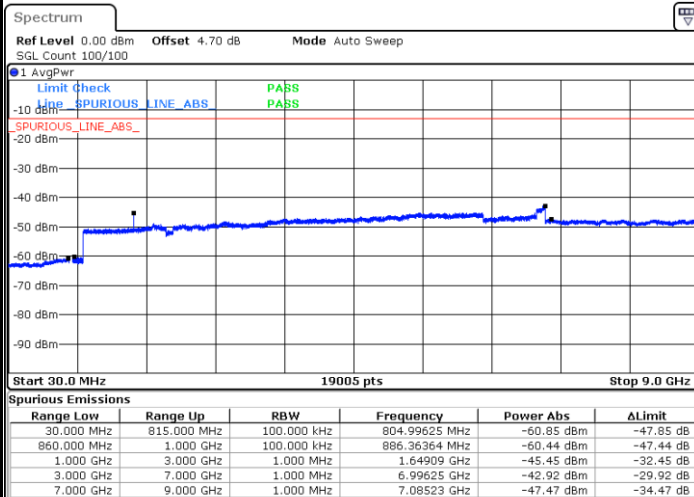




Conducted Spurious Emission

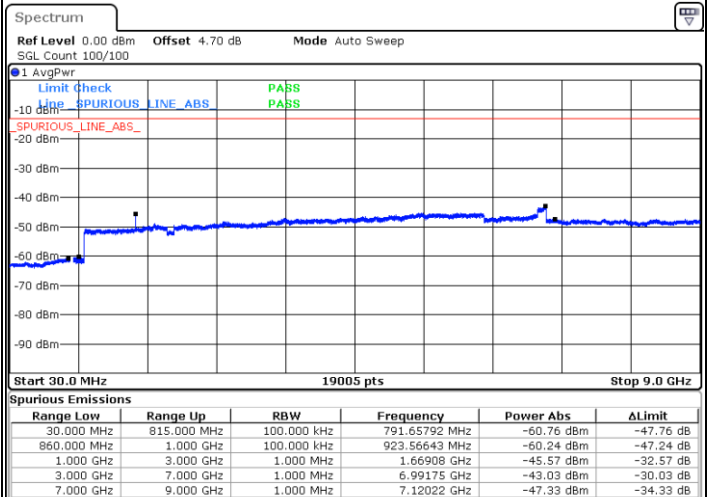
FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



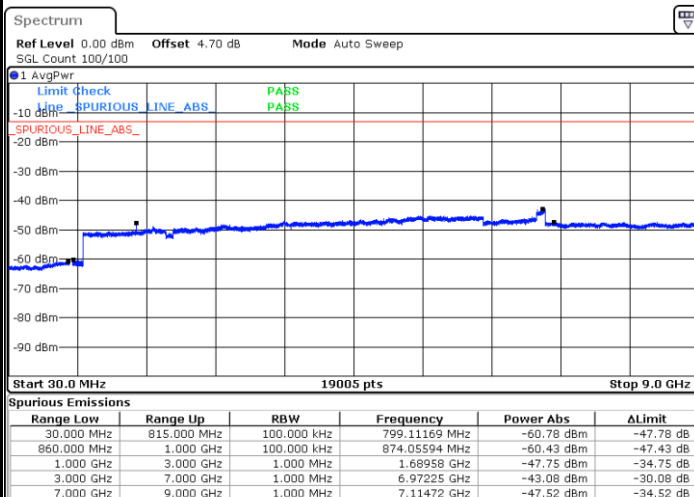
Date: 2.JUL.2020 22:42:02

Middle Channel / 1RB1



Date: 2.JUL.2020 22:44:17

Highest Channel / 1RB1

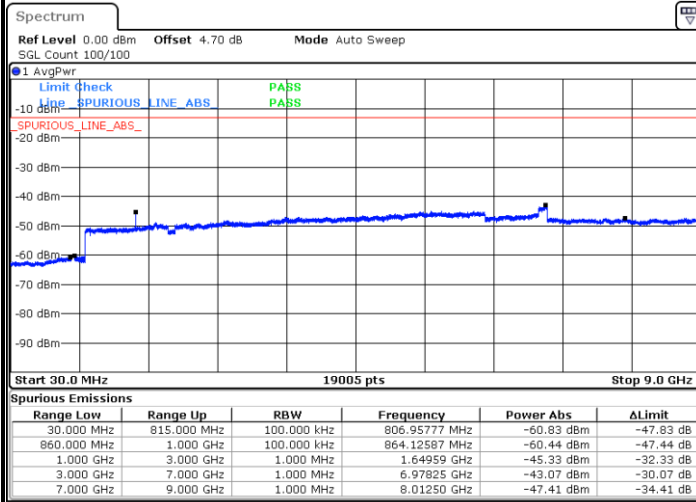


Date: 2.JUL.2020 22:47:24



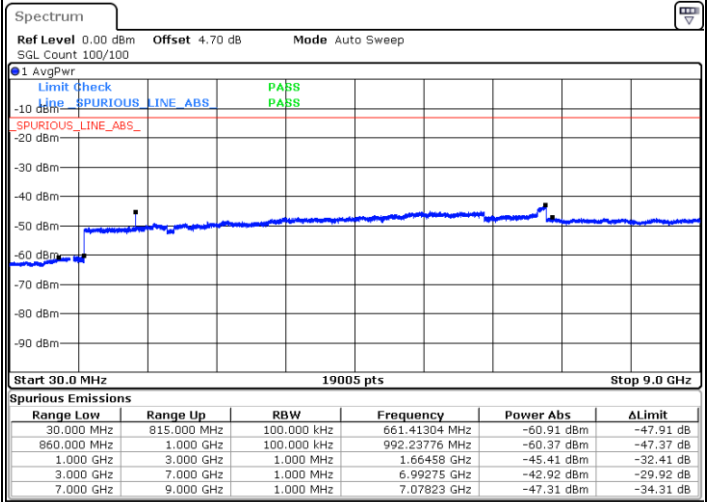
FR1 n5 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



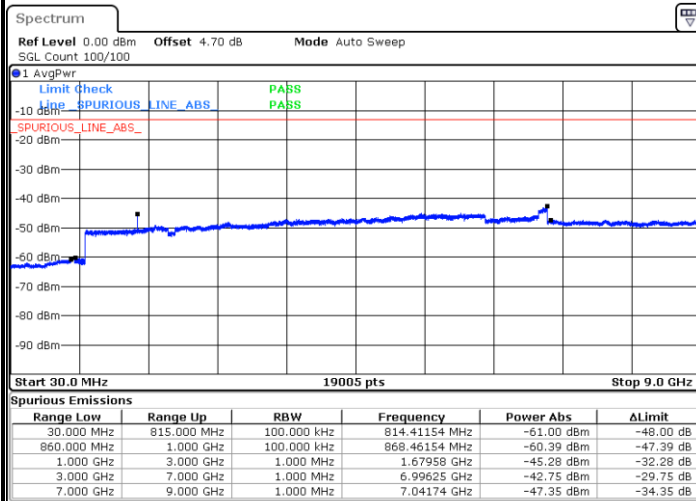
Date: 2.JUL.2020 22:34:37

Middle Channel / 1RB1



Date: 2.JUL.2020 22:37:04

Highest Channel / 1RB1

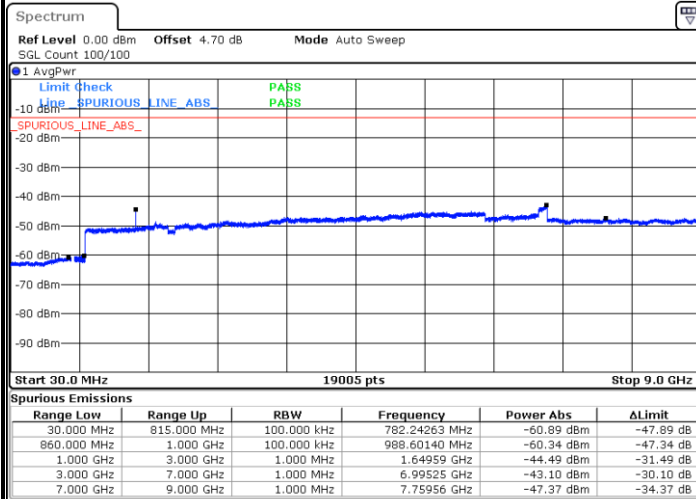


Date: 2.JUL.2020 22:39:18



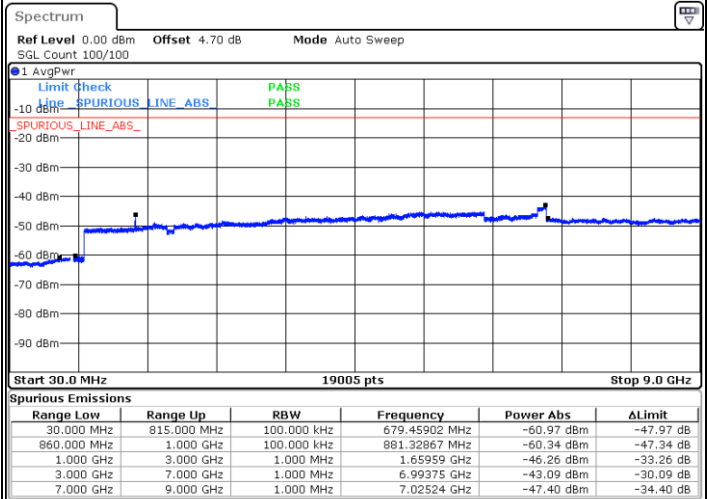
FR1 n5 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



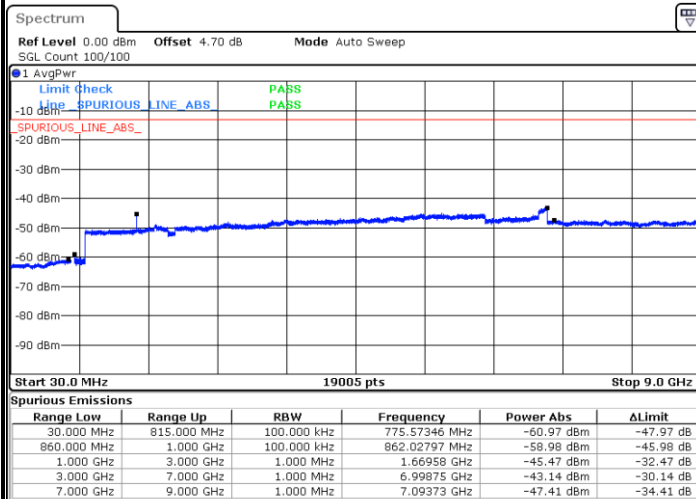
Date: 2.JUL.2020 22:27:05

Middle Channel / 1RB1



Date: 2.JUL.2020 22:29:37

Highest Channel / 1RB1

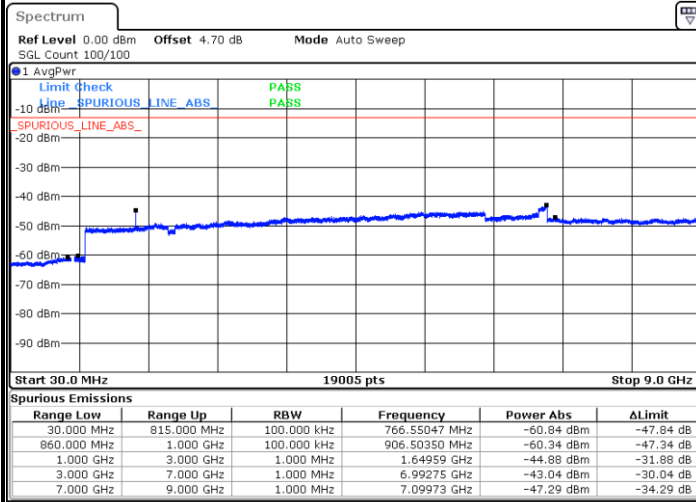


Date: 2.JUL.2020 22:31:46



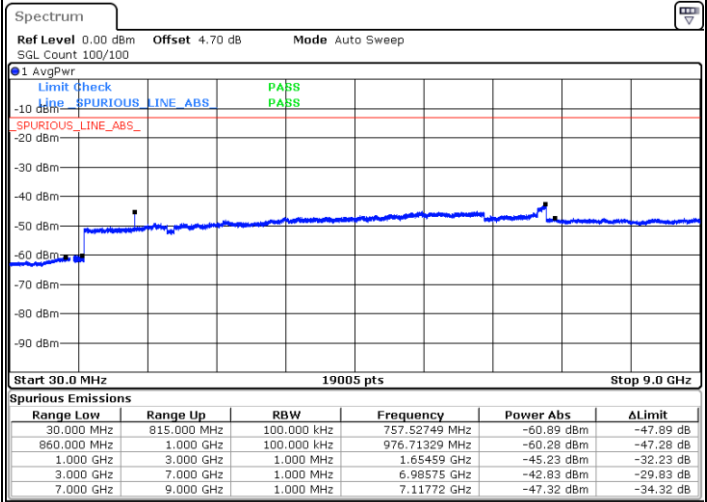
FR1 n5 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



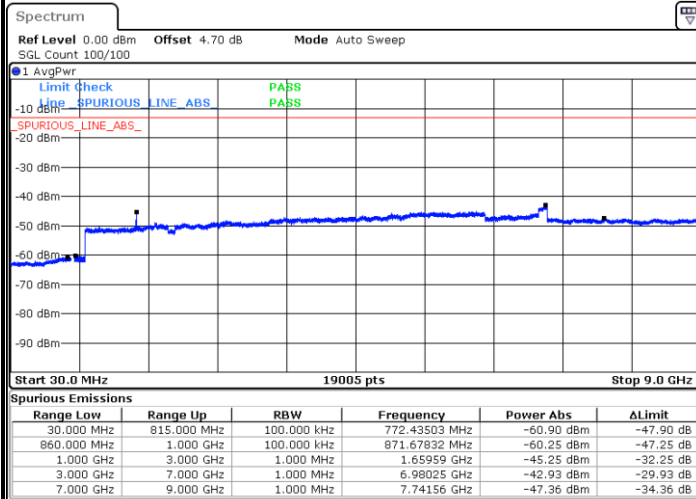
Date: 2.JUL.2020 22:24:25

Middle Channel / 1RB1



Date: 2.JUL.2020 22:50:12

Highest Channel / 1RB1



Date: 2.JUL.2020 22:19:23

Frequency Stability

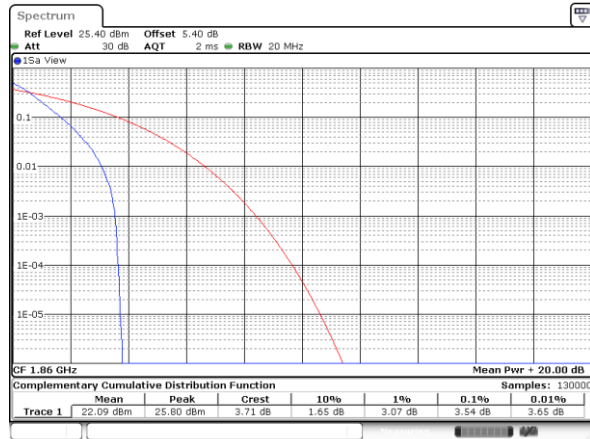
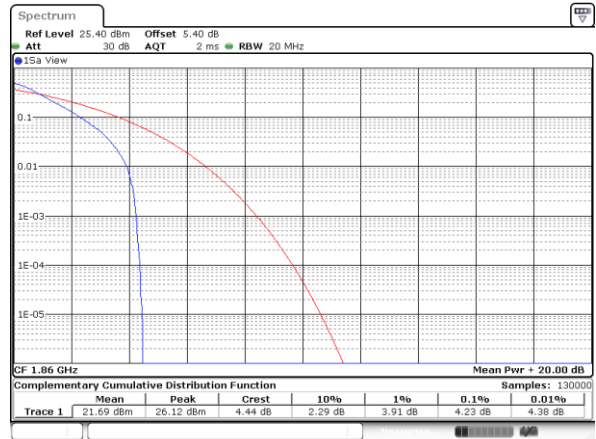
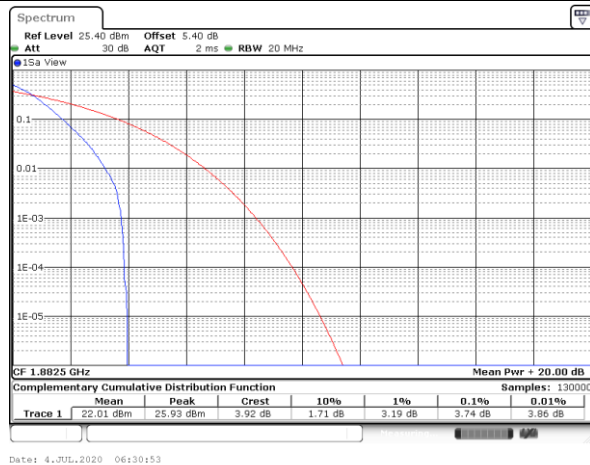
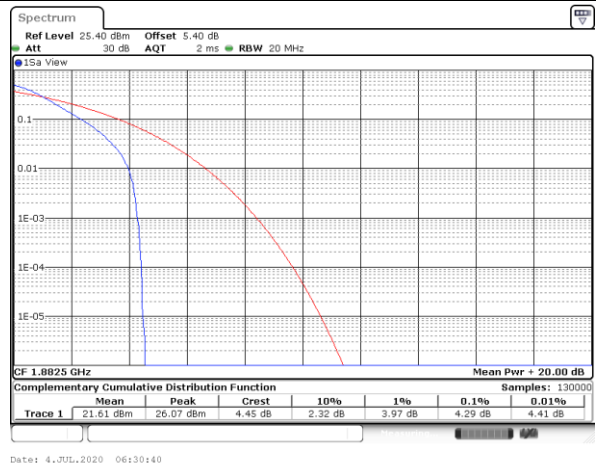
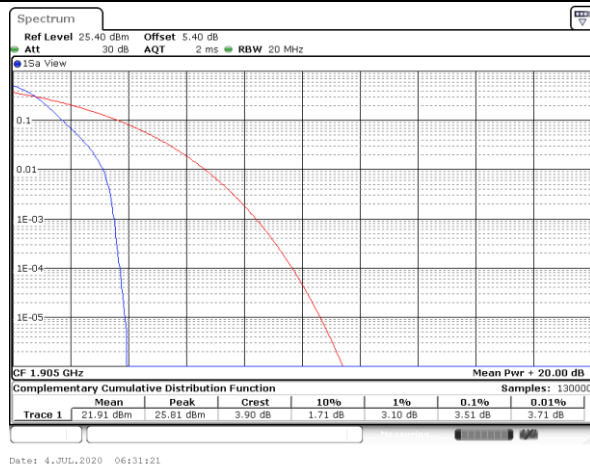
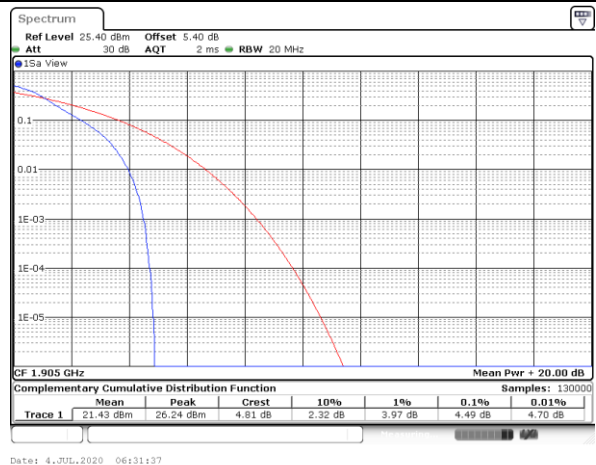
Test Conditions		FR1 n5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0039	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0008	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0030	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0004	

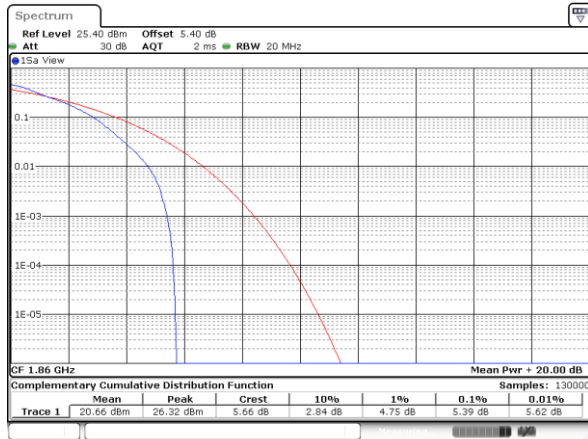
Note:

1. Normal Voltage =4 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

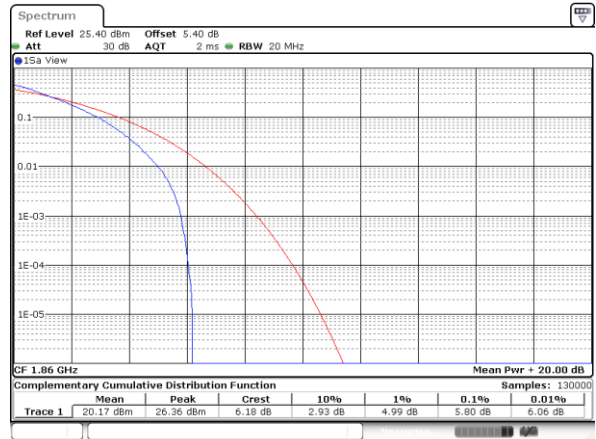
**FR1 n25****Peak-to-Average Ratio**

Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Lowest CH	3.54	4.23	5.39	5.80	PASS
Middle CH	3.74	4.29	5.48	5.88	
Highest CH	3.51	4.49	5.51	5.86	

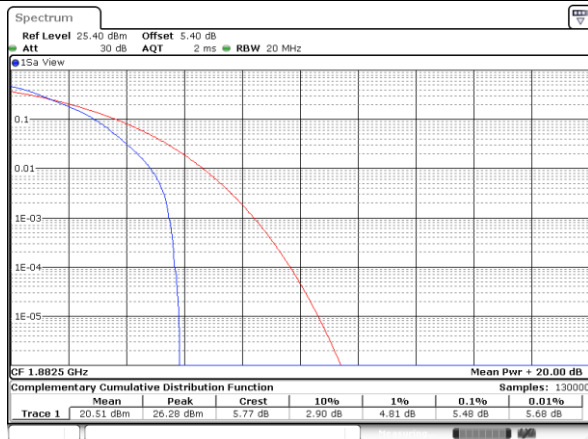
FR1 n25 / 20MHz / DFT-S OFDM
PI/2 BPSK
Lowest Channel / Full RB

QPSK
Lowest Channel / Full RB

Middle Channel / Full RB

Middle Channel / Full RB

Highest Channel / Full RB

Highest Channel / Full RB


FR1 n25 / 20MHz / DFT-S OFDM
16QAM
Lowest Channel / Full RB


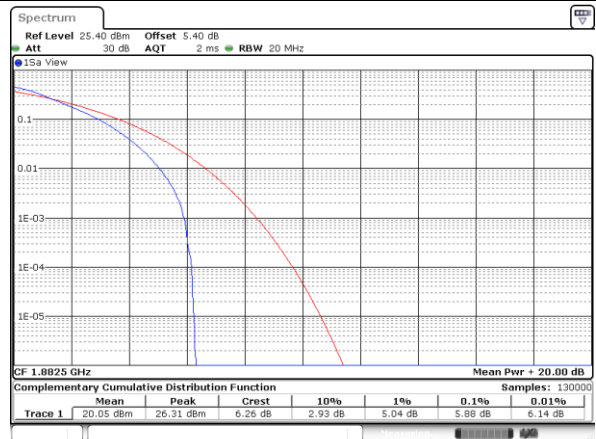
Date: 4.JUL.2020 06:27:21

64QAM
Lowest Channel / Full RB


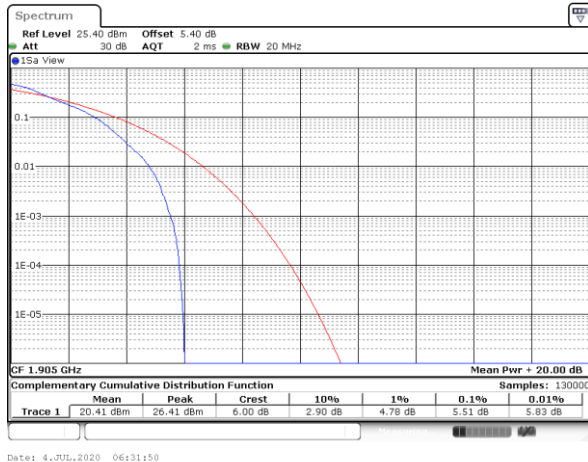
Date: 4.JUL.2020 06:27:45

Middle Channel / Full RB


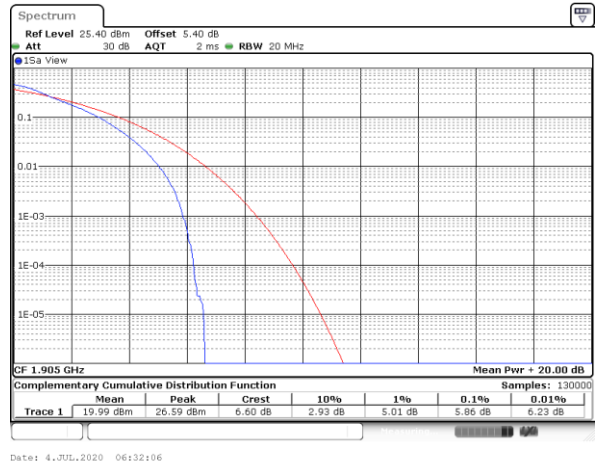
Date: 4.JUL.2020 06:30:27

Middle Channel / Full RB


Date: 4.JUL.2020 06:30:14

Highest Channel / Full RB


Date: 4.JUL.2020 06:31:50

Highest Channel / Full RB


Date: 4.JUL.2020 06:32:06

**26dB Bandwidth**

Mode BW Mod.	FR1 n25 : 26dB BW(MHz) / DFT-S OFDM							
	5MHz		10MHz		15MHz		20MHz	
	PI / BPSK		PI / BPSK		PI / BPSK		PI / BPSK	
Lowest CH	5.03		9.39		14.51		18.78	
Middle CH	5.05		9.35		14.65		18.86	
Highest CH	5.15		9.47		14.36		18.86	

Mode BW Mod.	FR1 n25 : 26dB BW(MHz) / CP OFDM							
	5MHz		10MHz		15MHz		20MHz	
	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.01	5.08	9.97	9.91	15.11	15.05	20.10	20.06
Middle CH	5.11	5.26	10.05	9.91	14.93	15.20	20.06	19.98
Highest CH	5.31	5.15	9.99	10.13	15.11	14.99	19.78	20.02

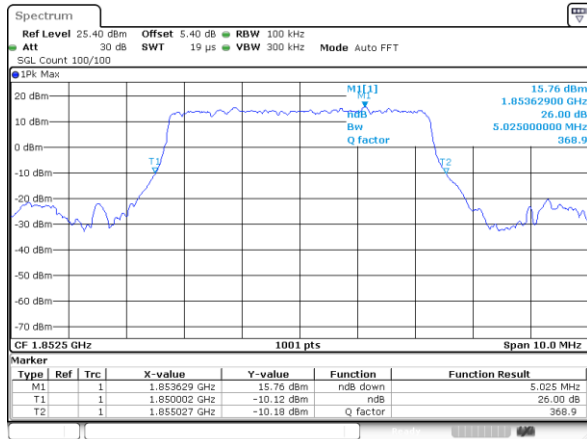
Mode BW Mod.	FR1 n25 : 26dB BW(MHz) / CP OFDM							
	5MHz		10MHz		15MHz		20MHz	
	64QAM		64QAM		64QAM		64QAM	
Lowest CH	5.28		10.07		14.87		20.02	
Middle CH	5.17		9.97		15.26		19.74	
Highest CH	5.11		9.81		14.96		20.06	



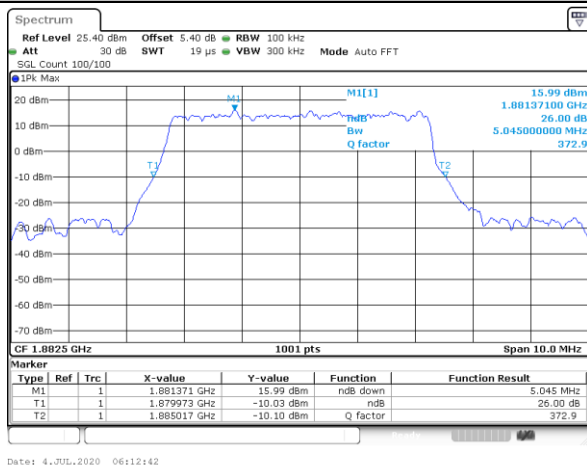
FR1 n25 / 5MHz / DFT-S OFDM

PI / BPSK

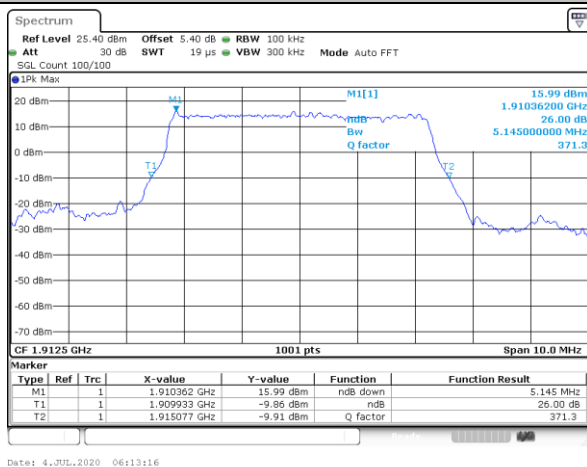
Lowest Channel



Middle Channel



Highest Channel

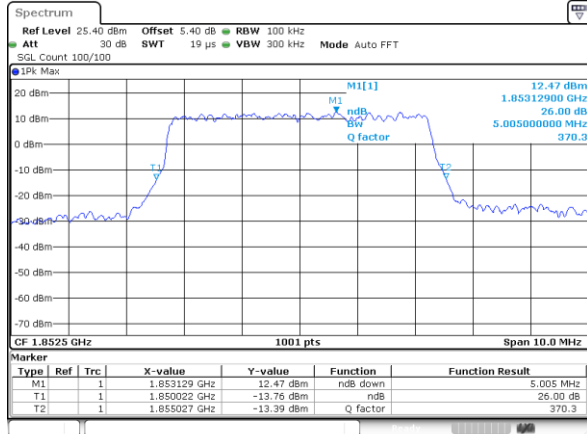




FR1 n25 / 5MHz / CP OFDM

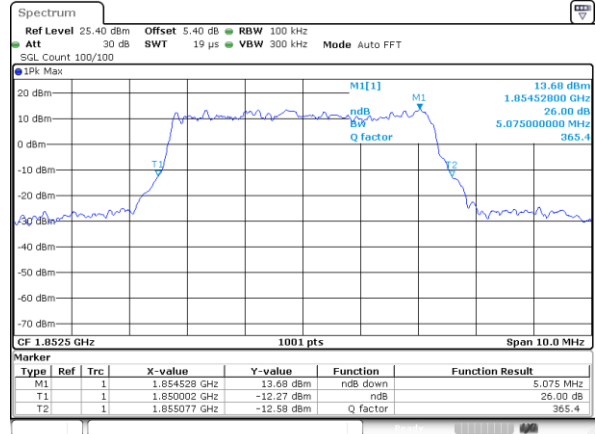
QPSK

Lowest Channel

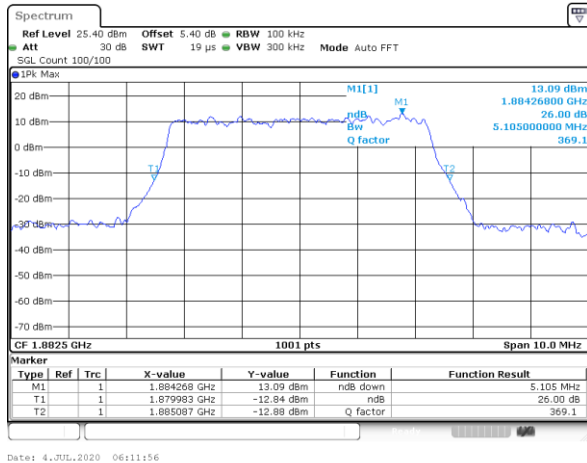


16QAM

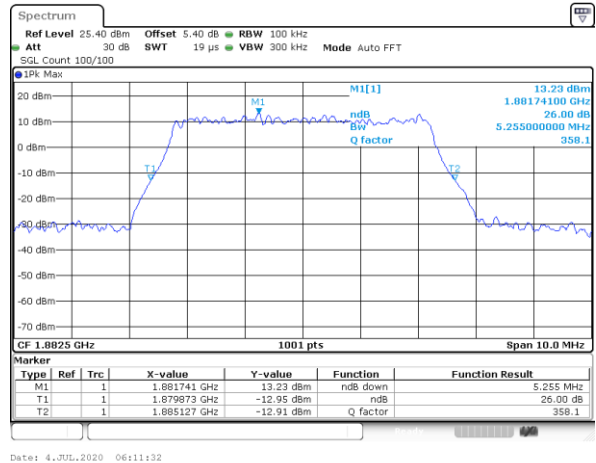
Lowest Channel



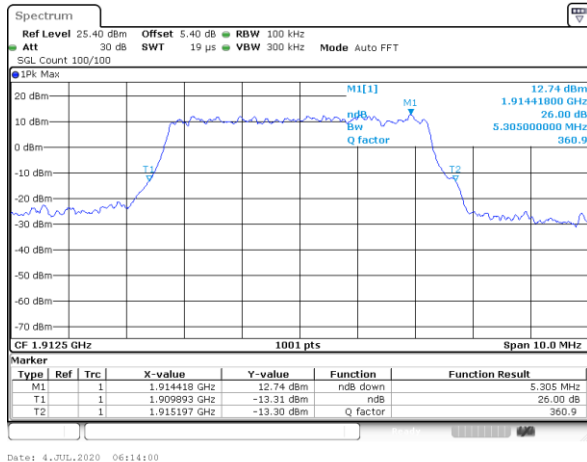
Middle Channel



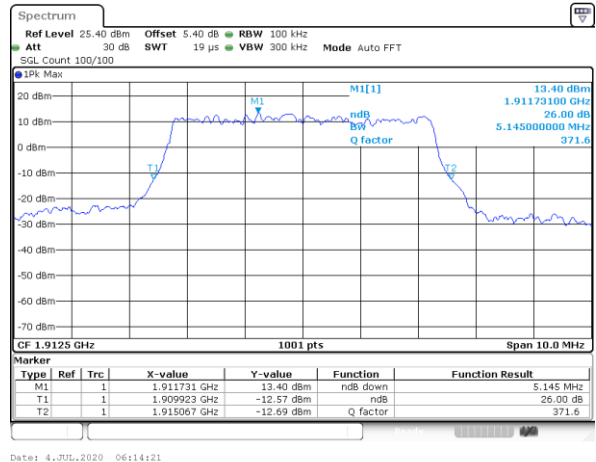
Middle Channel



Highest Channel



Highest Channel

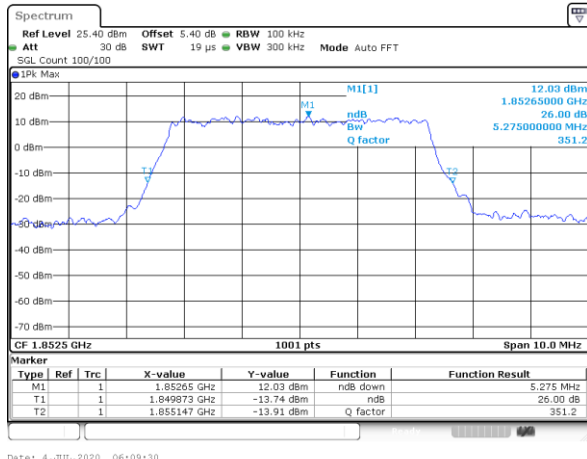




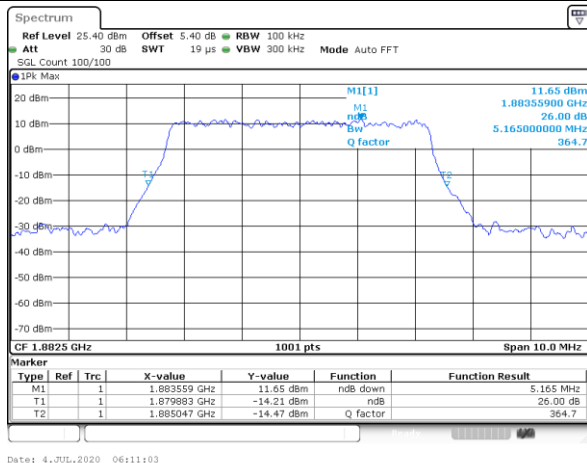
FR1 n25 / 5MHz / CP OFDM

64QAM

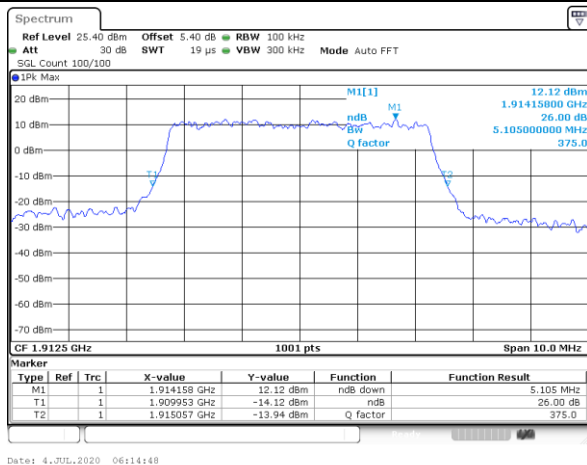
Lowest Channel



Middle Channel



Highest Channel

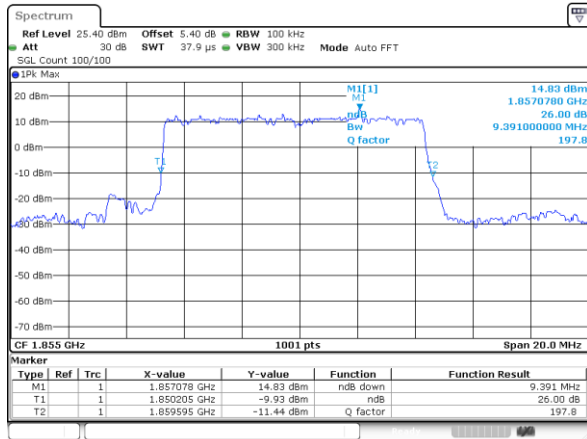




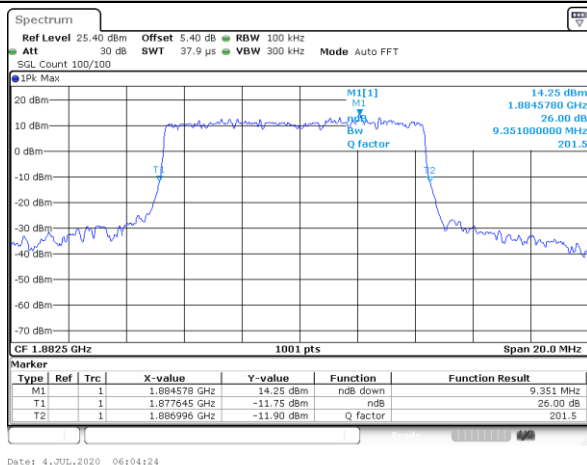
FR1 n25 / 10MHz / DFT-S OFDM

PI / BPSK

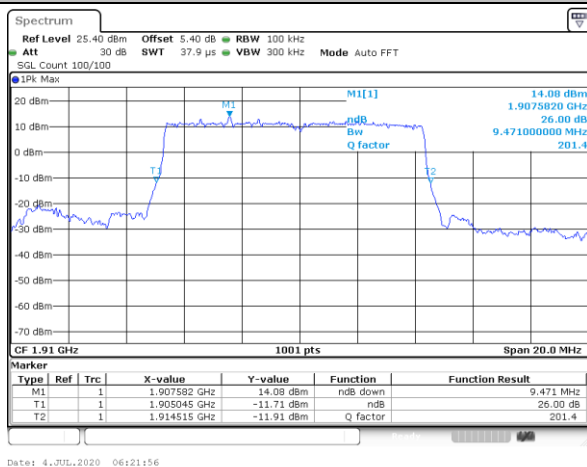
Lowest Channel



Middle Channel



Highest Channel

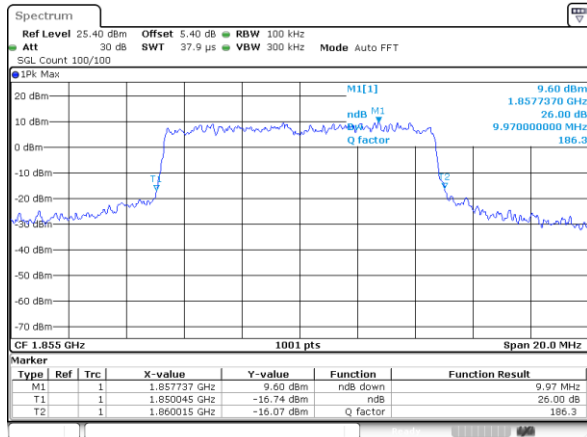




FR1 n25 / 10MHz / CP OFDM

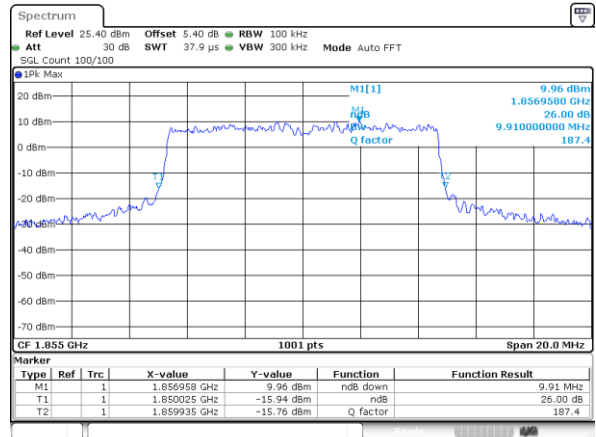
QPSK

Lowest Channel

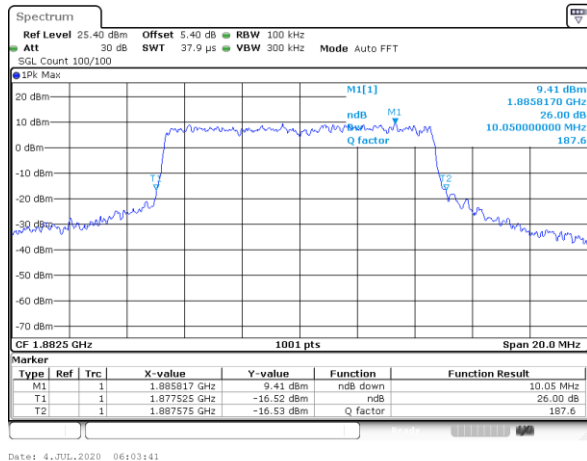


16QAM

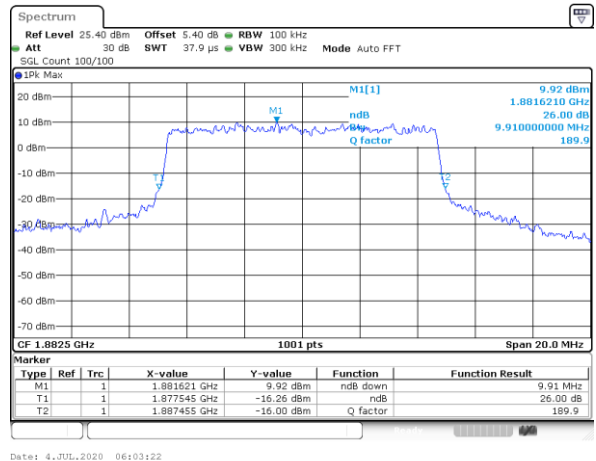
Lowest Channel



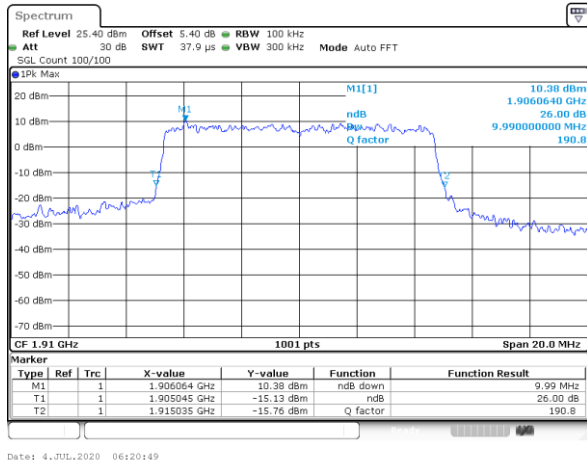
Middle Channel



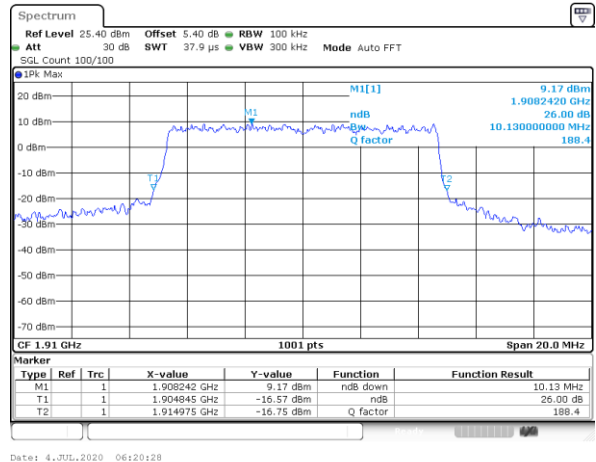
Middle Channel



Highest Channel



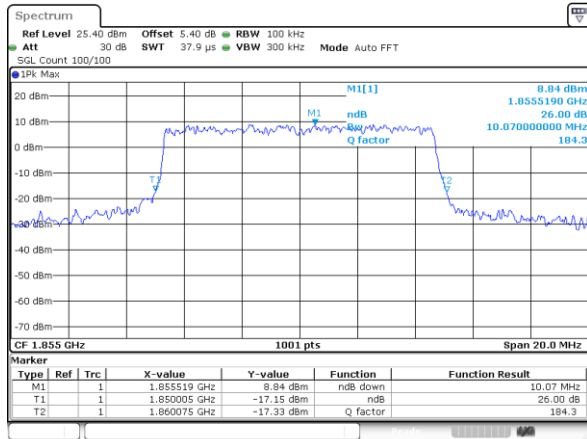
Highest Channel



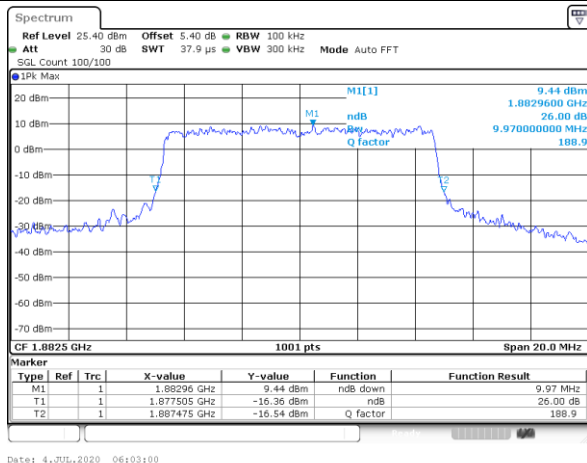
FR1 n25 / 10MHz / CP OFDM

64QAM

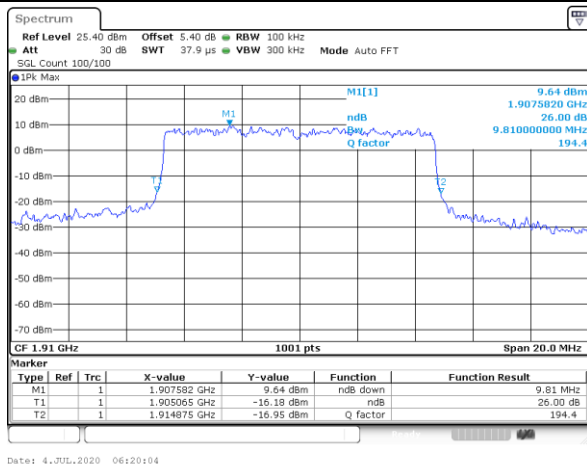
Lowest Channel



Middle Channel



Highest Channel

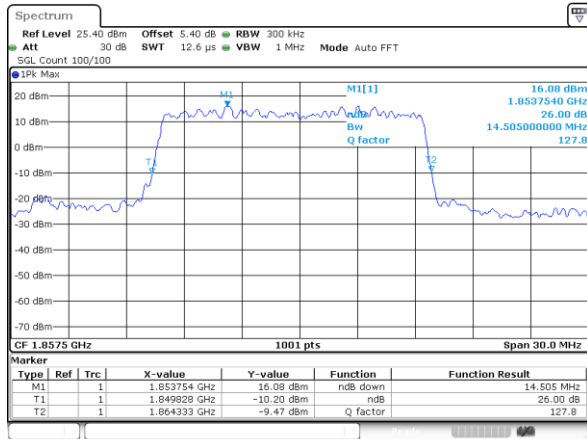




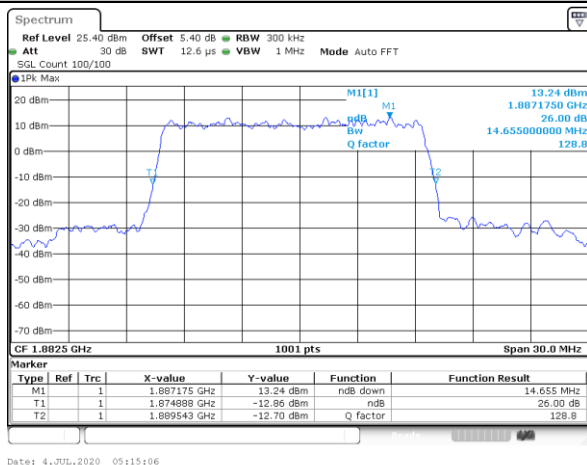
FR1 n25 / 15MHz / DFT-S OFDM

PI / BPSK

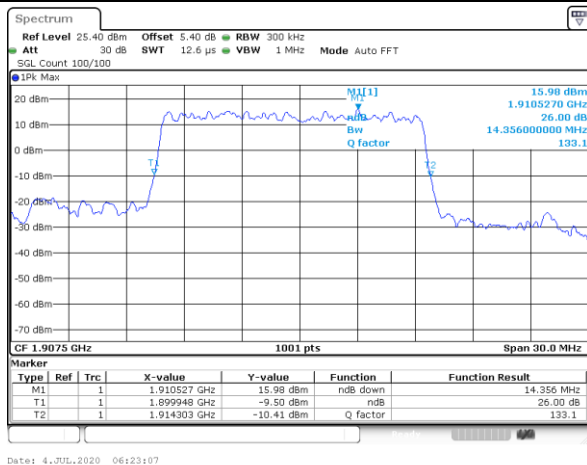
Lowest Channel



Middle Channel



Highest Channel

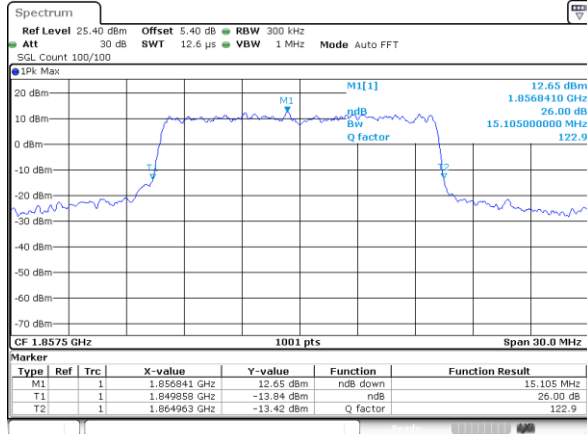




FR1 n25 / 15MHz / CP OFDM

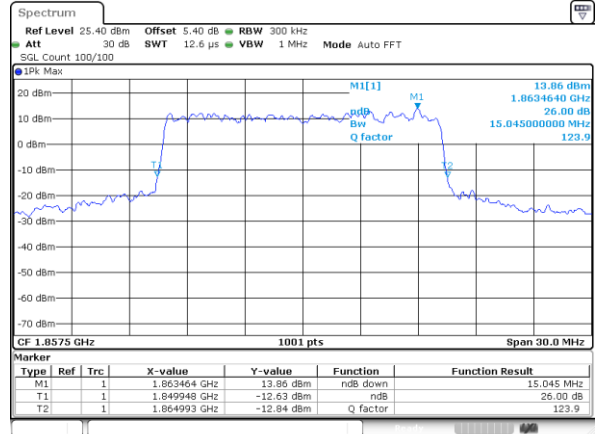
QPSK

Lowest Channel

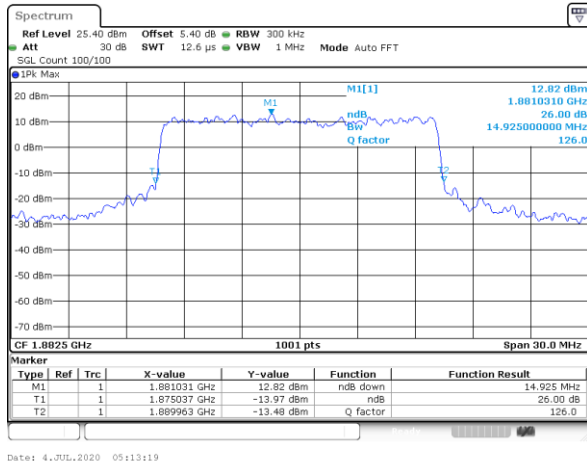


16QAM

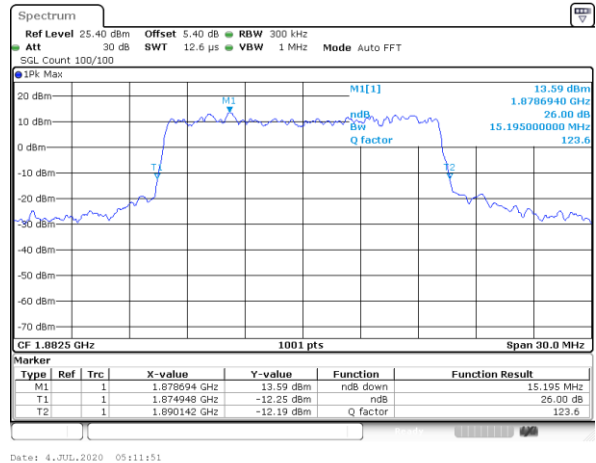
Lowest Channel



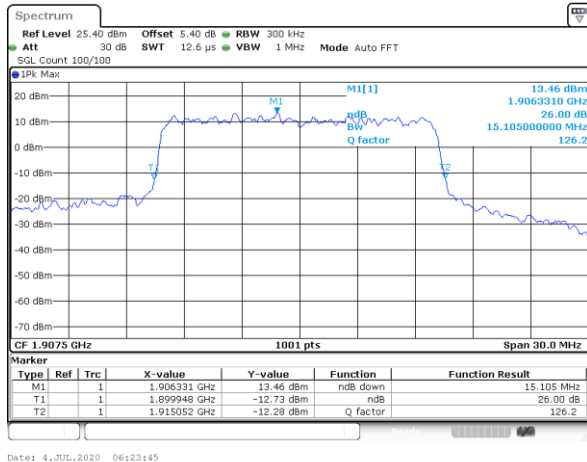
Middle Channel



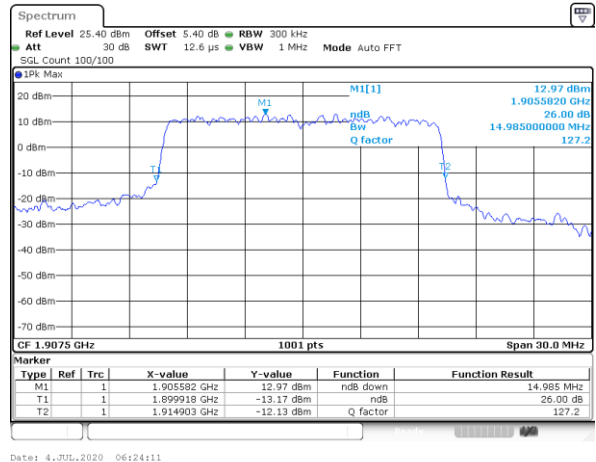
Middle Channel



Highest Channel



Highest Channel

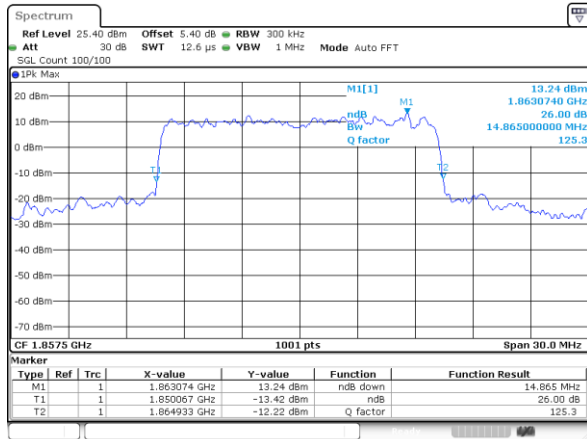




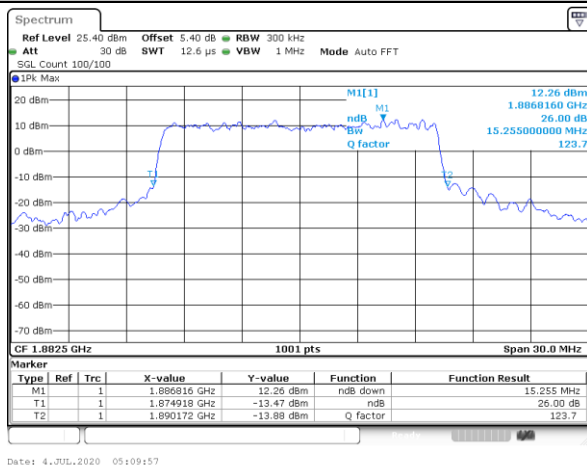
FR1 n25 / 15MHz / CP OFDM

64QAM

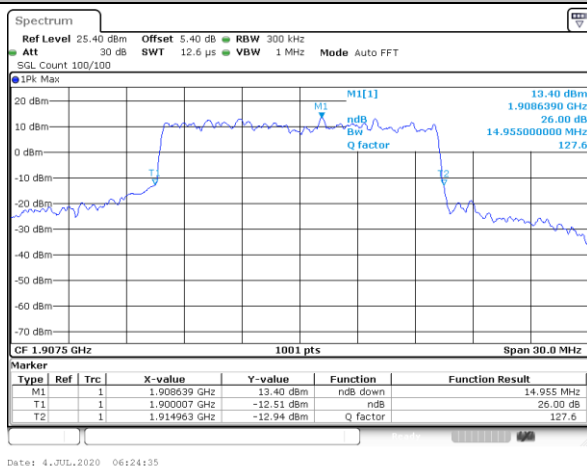
Lowest Channel



Middle Channel



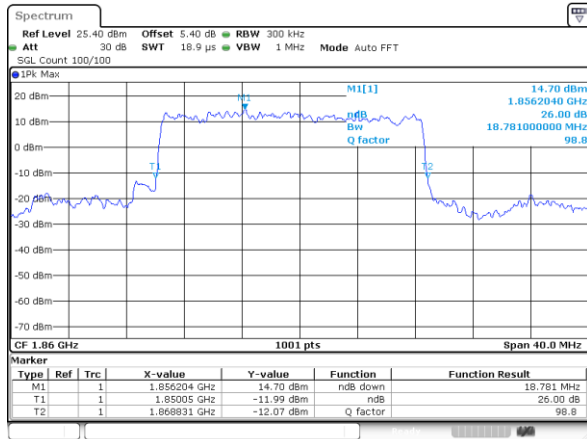
Highest Channel



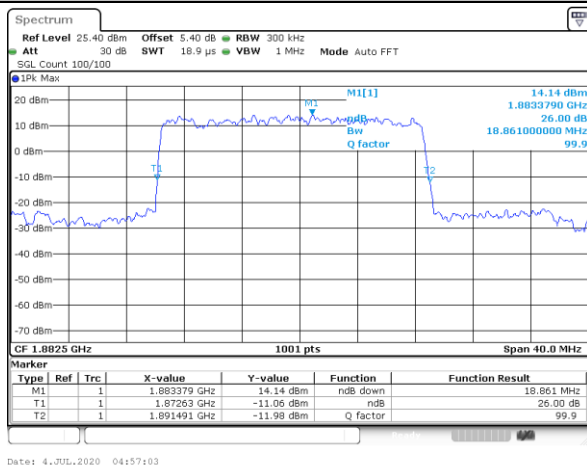
FR1 n25 / 20MHz / DFT-S OFDM

PI / BPSK

Lowest Channel



Middle Channel



Highest Channel

