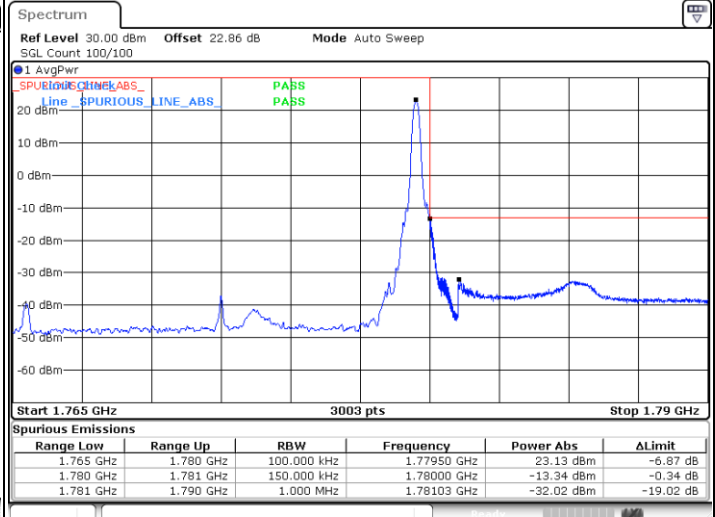
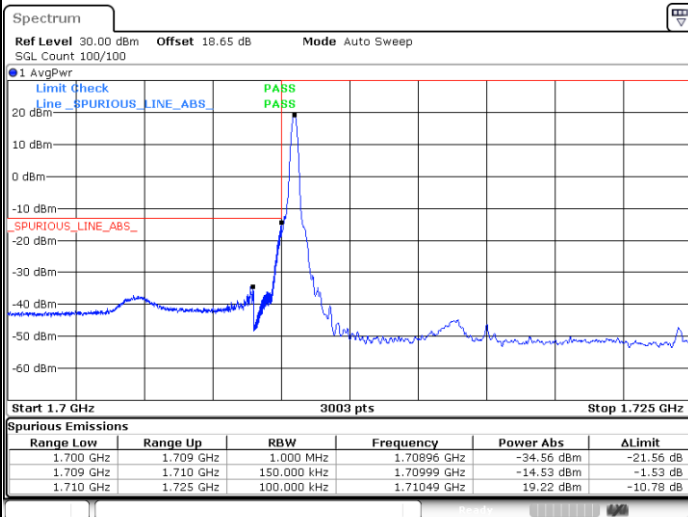




FR1 n66 / 15MHz / DFT-s-OFDM / QPSK

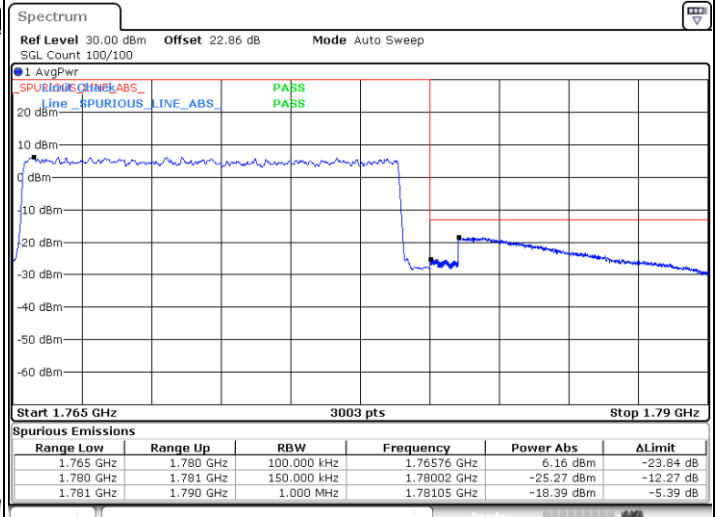
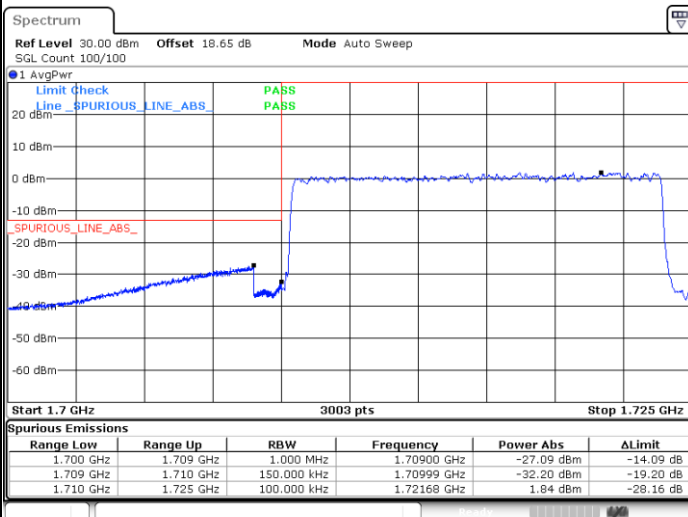
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

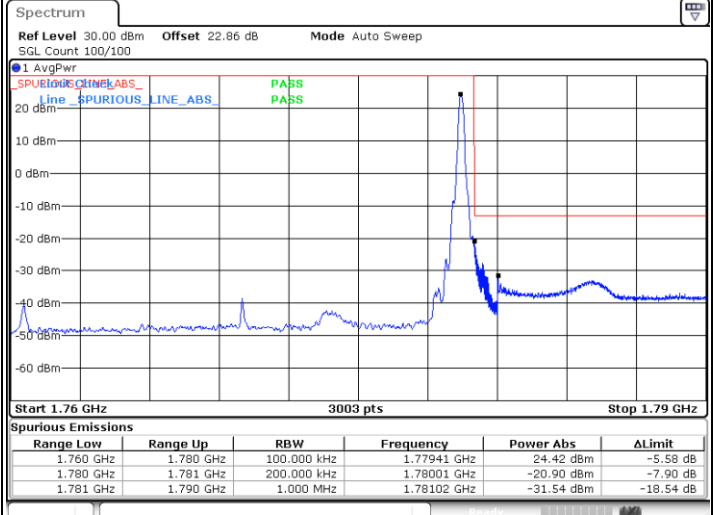
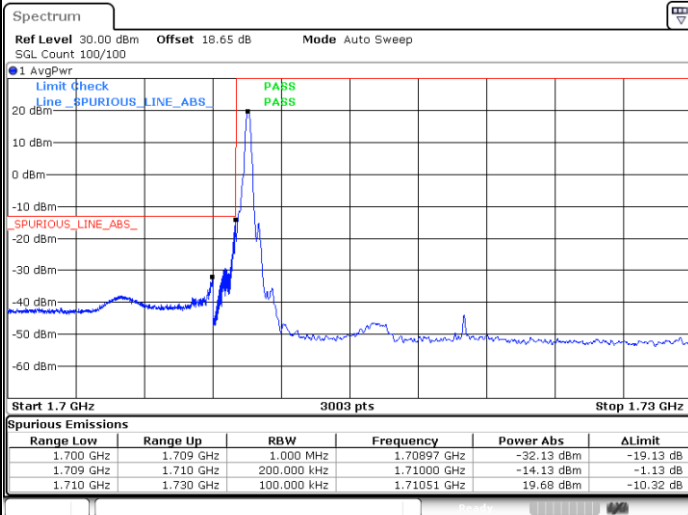




FR1 n66 / 20MHz / DFT-s-OFDM / PI/2 BPSK

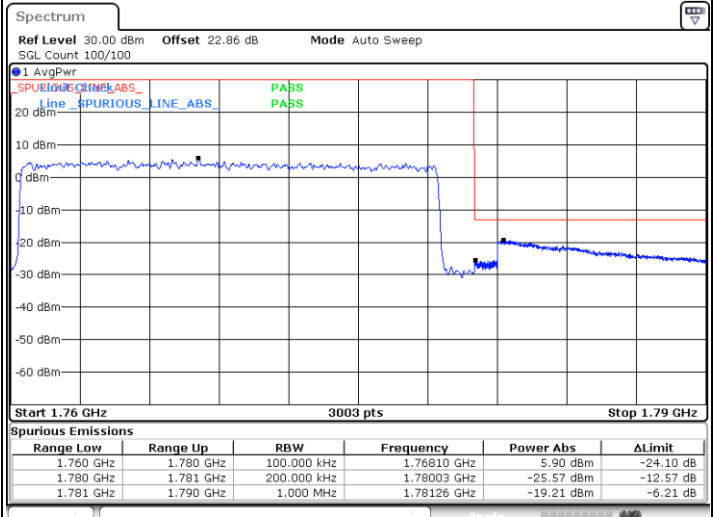
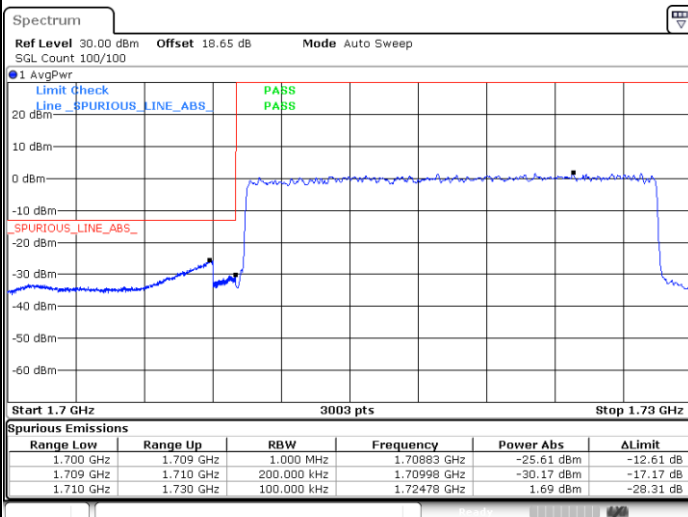
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

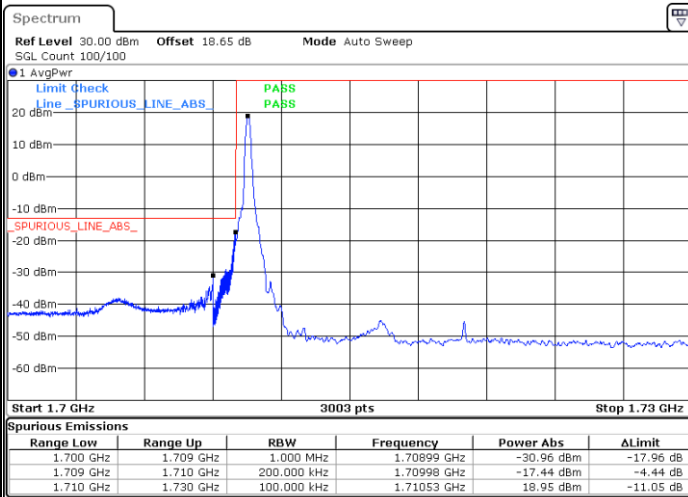




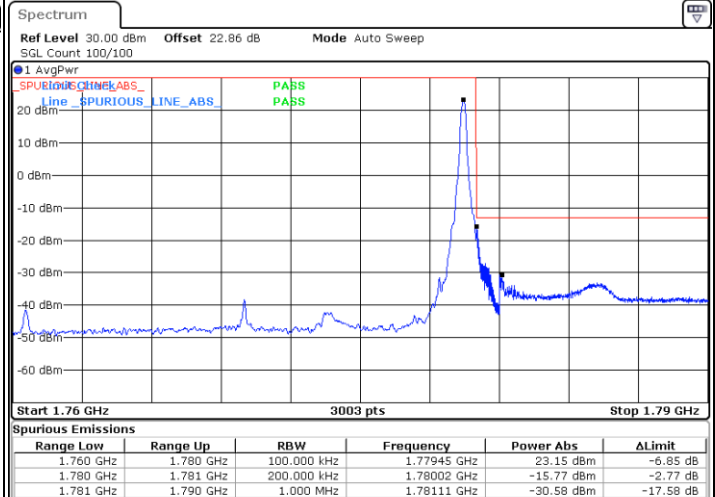
FR1 n66 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



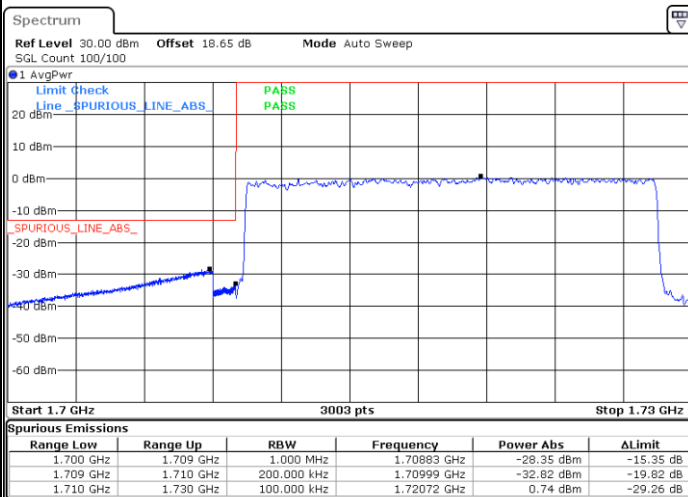
Date: 21.AUG.2020 10:11:17



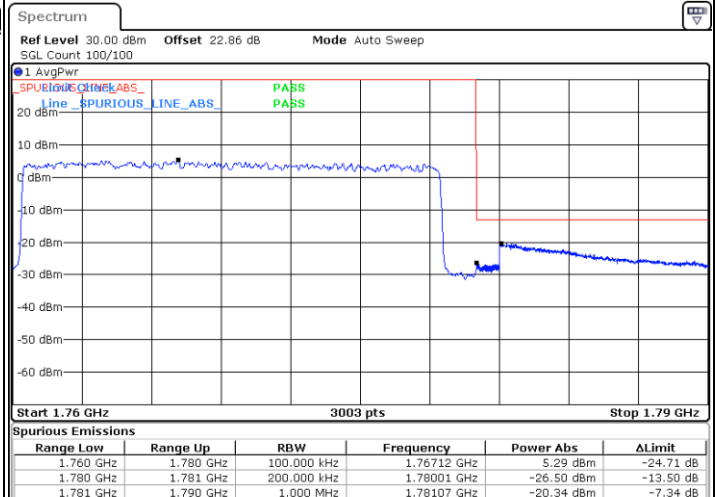
Date: 21.AUG.2020 16:57:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.AUG.2020 10:12:10



Date: 21.AUG.2020 18:17:49

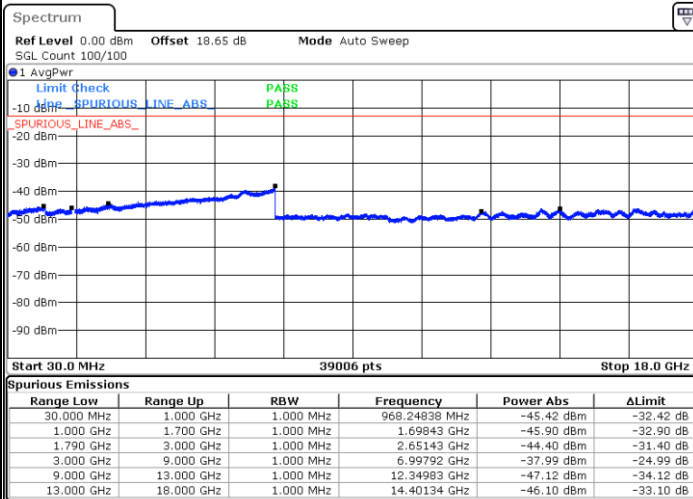


Conducted Spurious Emission

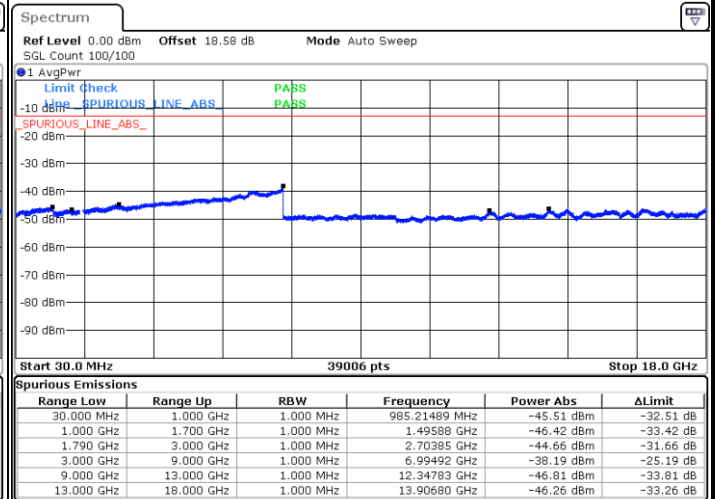
FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

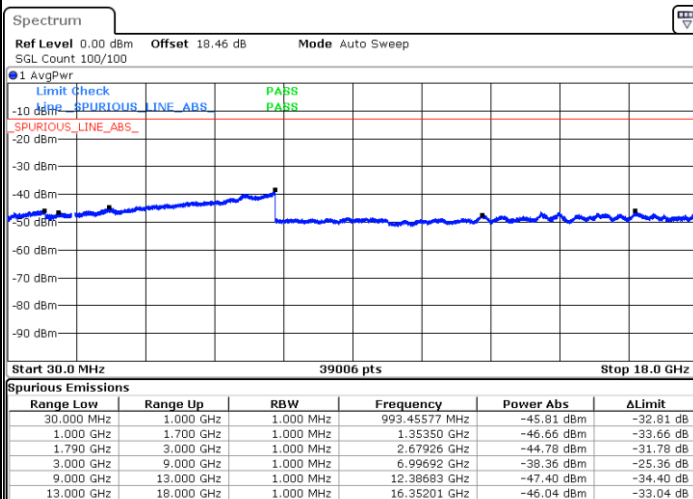


Date: 21.AUG.2020 14:25:20



Date: 24.AUG.2020 14:20:25

Highest Channel / 1RB1



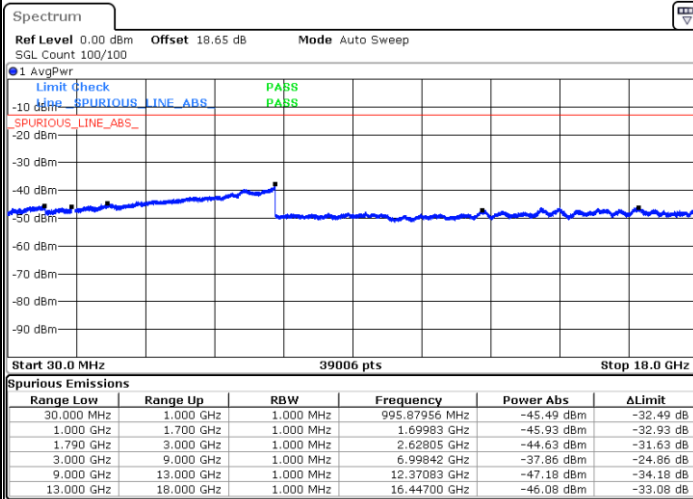
Date: 24.AUG.2020 14:48:53



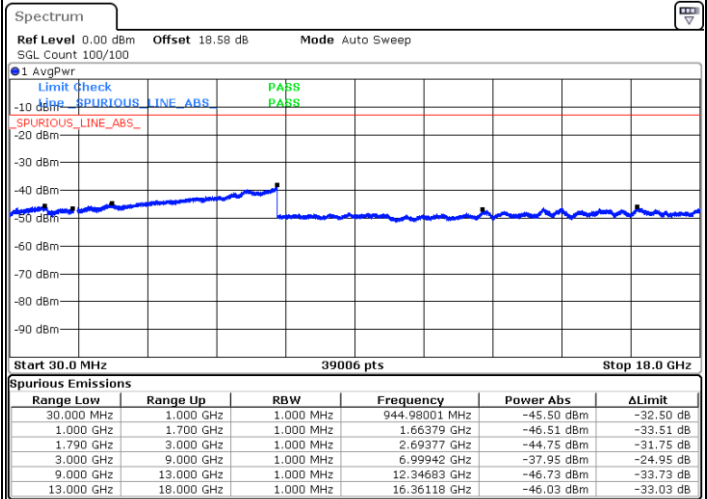
FR1 n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

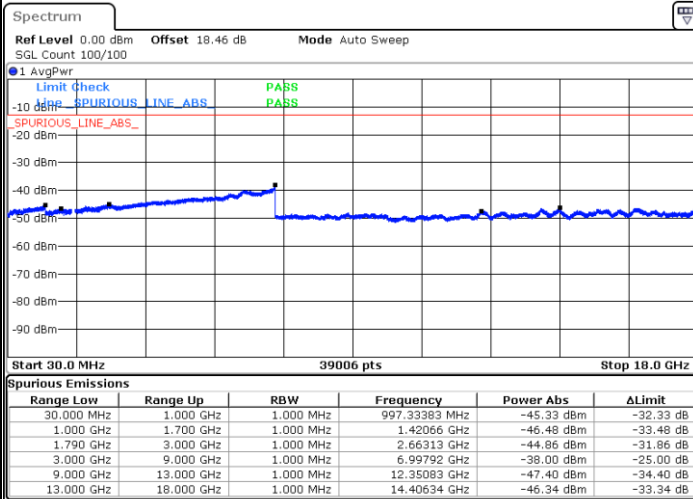


Date: 21.AUG.2020 15:22:48



Date: 24.AUG.2020 14:22:26

Highest Channel / 1RB1

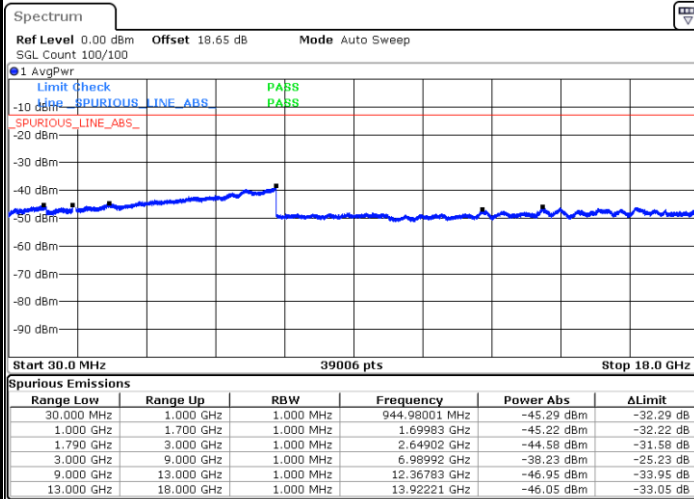


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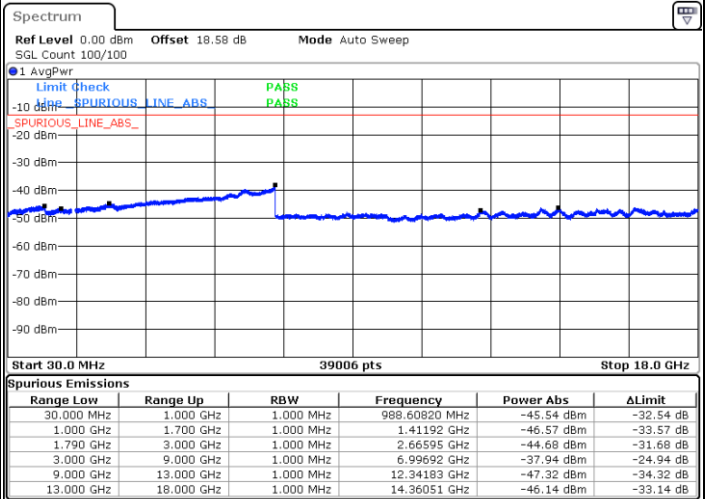
FR1 n66 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



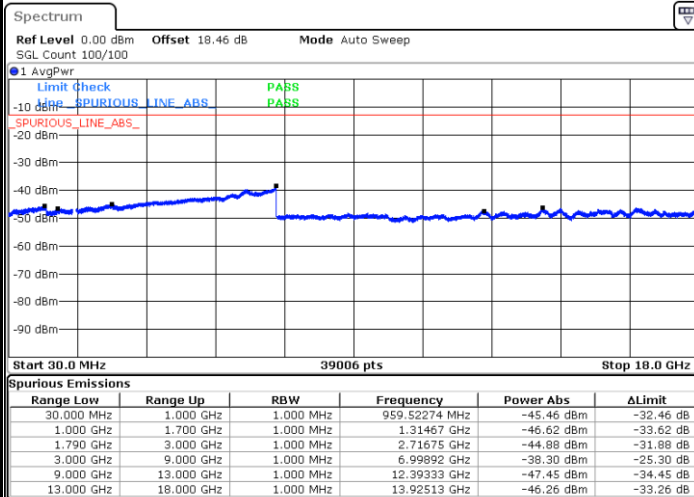
Date: 21.AUG.2020 15:42:35

Middle Channel / 1RB1



Date: 24.AUG.2020 14:27:54

Highest Channel / 1RB1

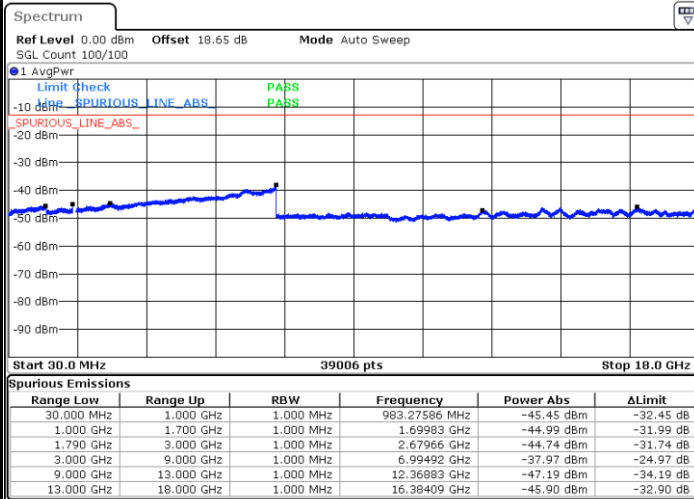


Date: 24.AUG.2020 15:08:07



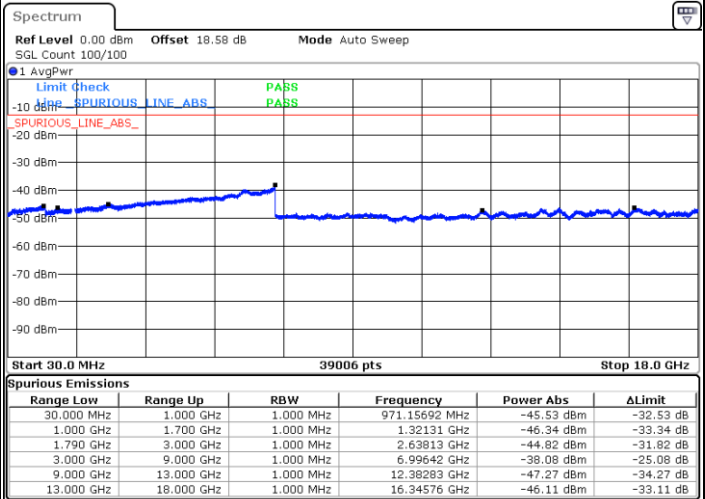
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



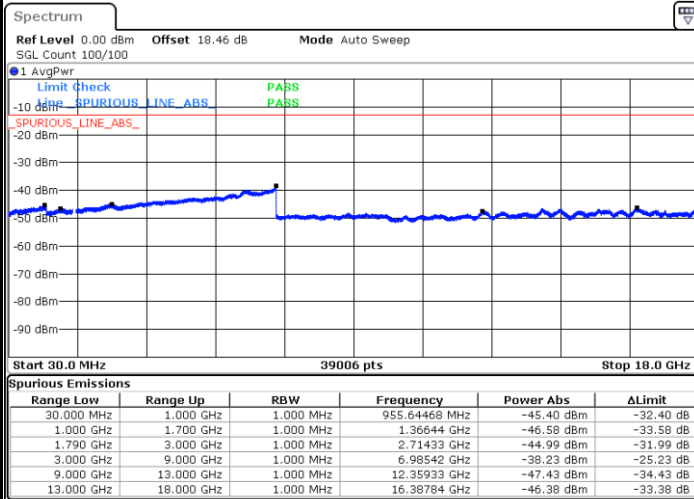
Date: 21.AUG.2020 13:54:00

Middle Channel / 1RB1



Date: 24.AUG.2020 14:31:35

Highest Channel / 1RB1



Date: 24.AUG.2020 15:21:50

Frequency Stability

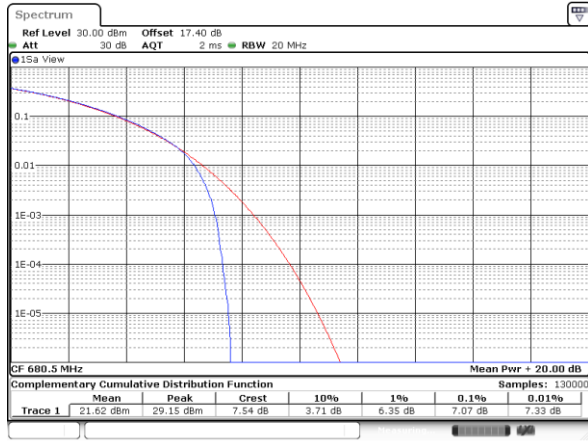
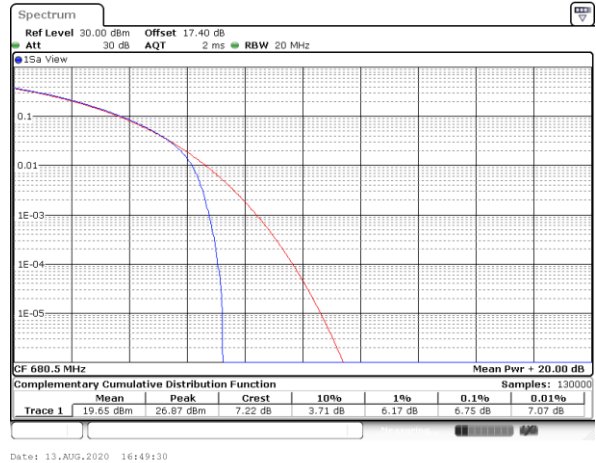
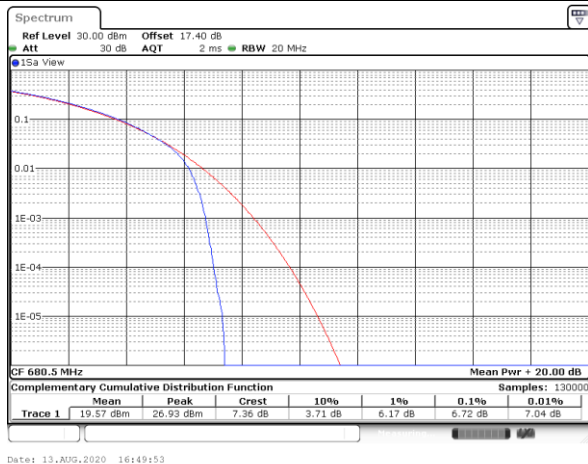
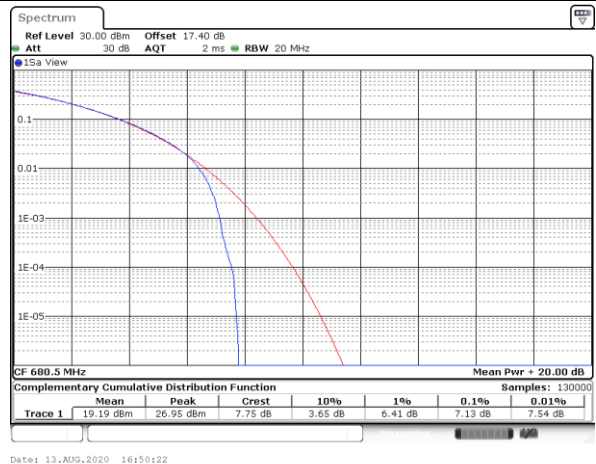
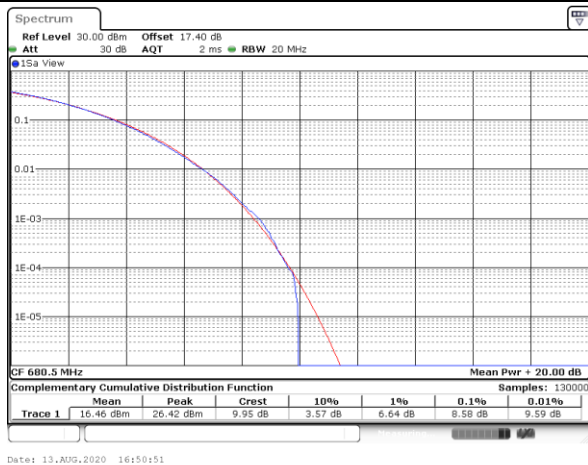
Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0002	
20	Battery End Point	0.0001	

Note:

1. Normal Voltage =3.85 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 n71****Peak-to-Average Ratio**

Mode	FR1 n71 / 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	7.07	6.75	6.72	7.13	PASS
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	8.58				PASS

FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

QPSK

16QAM

64QAM

256QAM


**26dB Bandwidth**

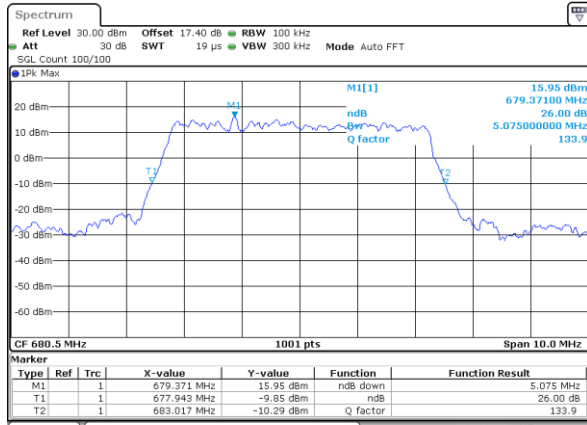
Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	5.08		9.61		14.30		18.74	

Mode	FR1 n71 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.08	5.04	9.87	9.83	14.99	14.90	19.70	19.82
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.93	5.07	9.85	9.89	14.99	14.93	19.82	19.74



FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel

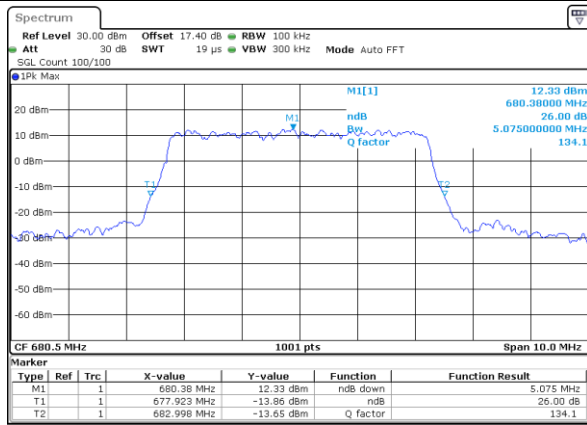
PI/2 BPSK



Date: 13.AUG.2020 14:55:29

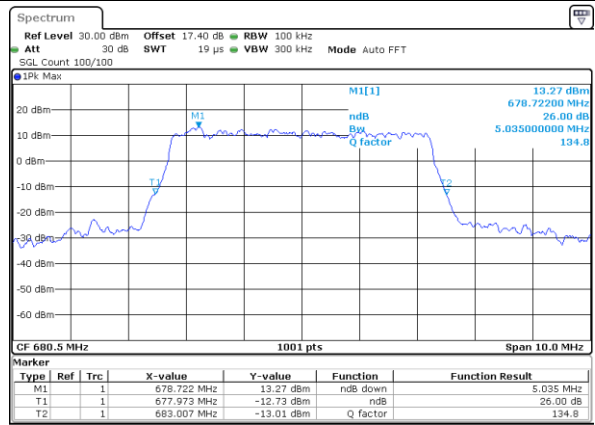
FR1 n71 / 5MHz / CP OFDM / Middle Channel

QPSK



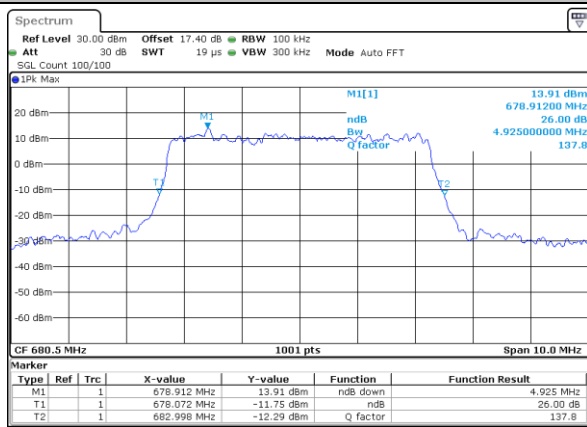
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16QAM



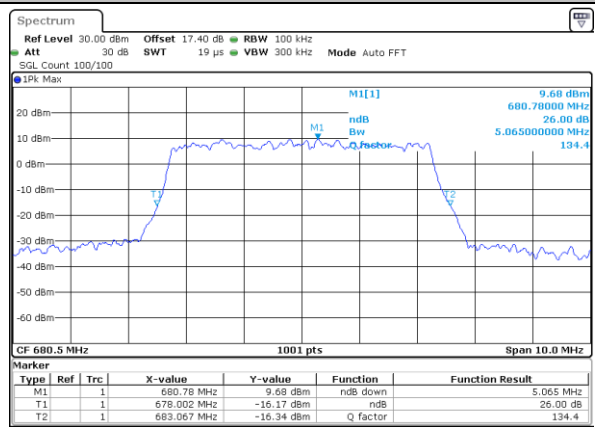
Date: 13.AUG.2020 14:52:23

64QAM



Date: 13.AUG.2020 14:53:29

256QAM

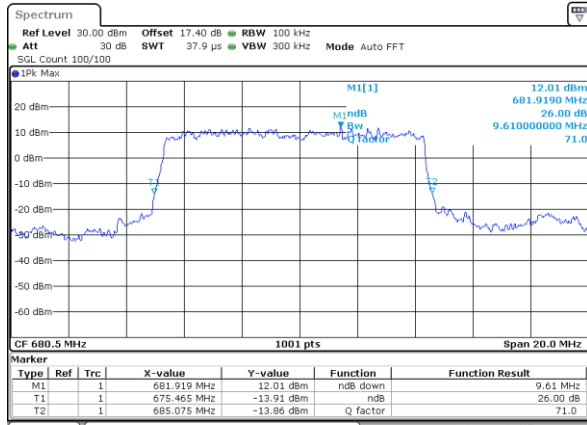


Date: 13.AUG.2020 14:54:26



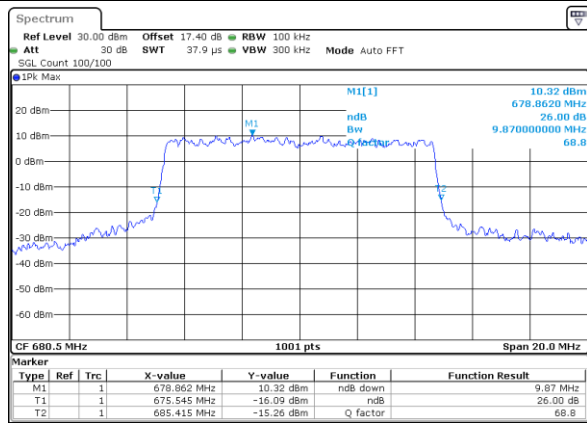
FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

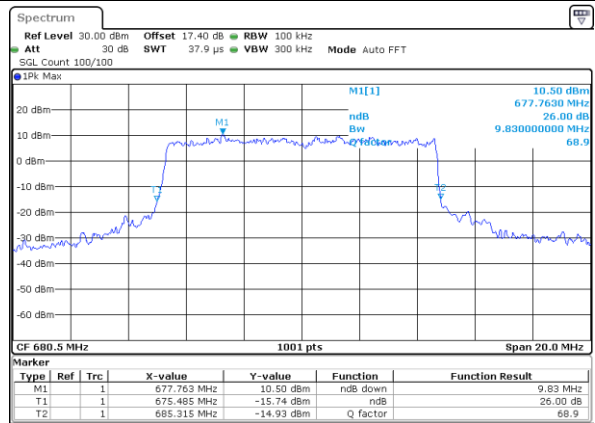


FR1 n71 / 10MHz / CP OFDM / Middle Channel

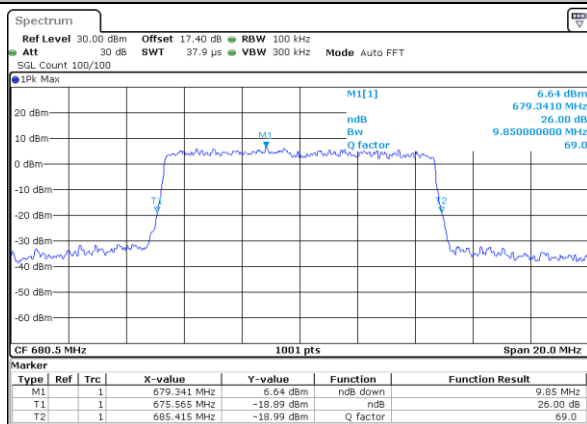
QPSK



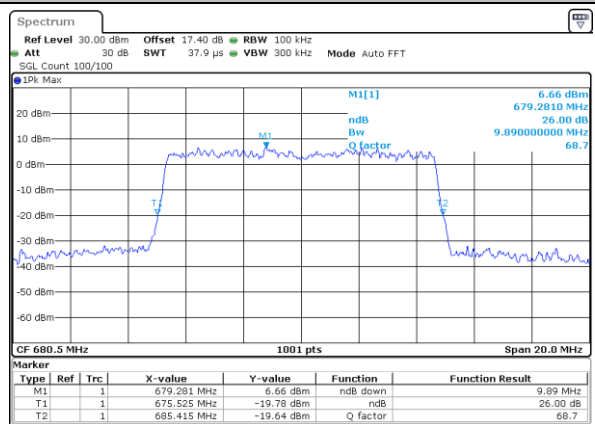
16QAM



64QAM

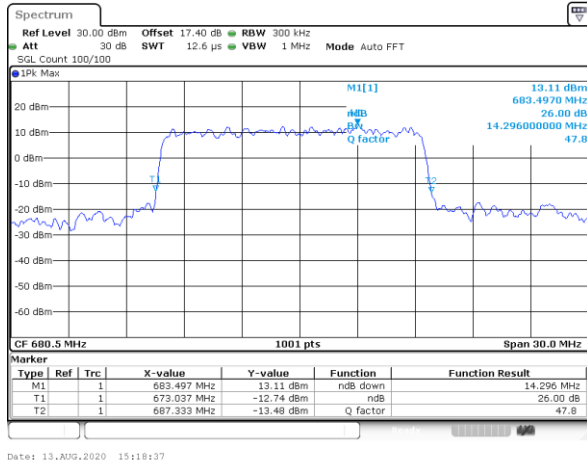


256QAM



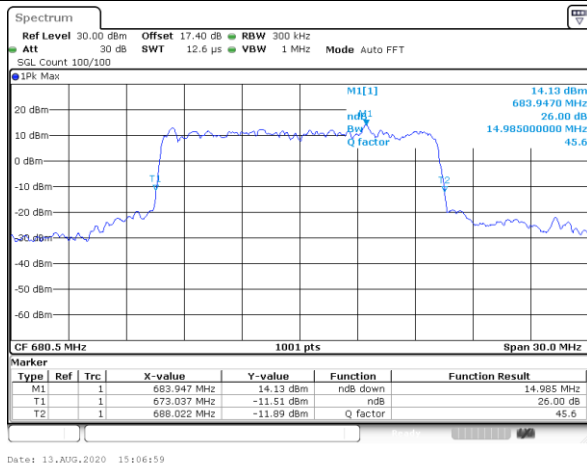
FR1 n71 / 15MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

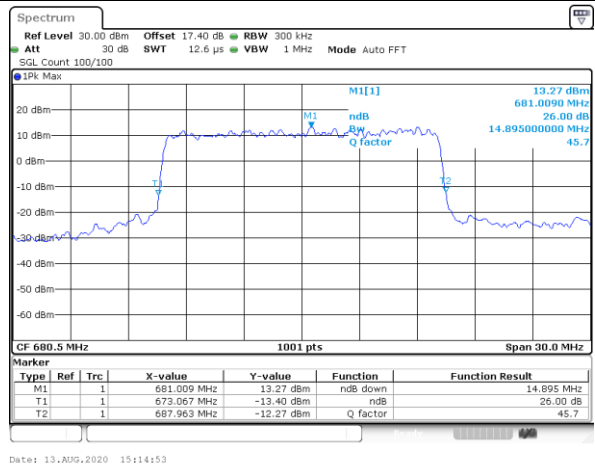


FR1 n71 / 15MHz / CP OFDM / Middle Channel

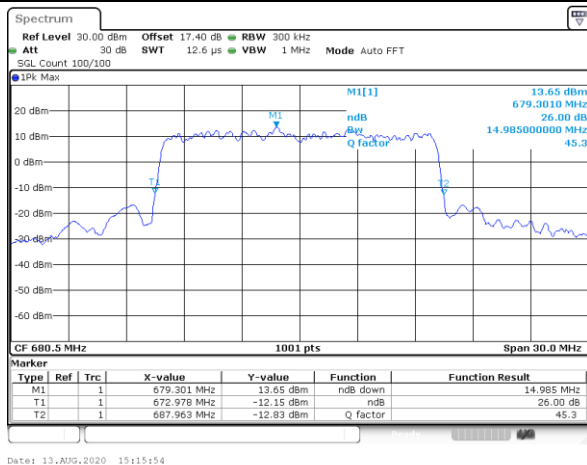
QPSK



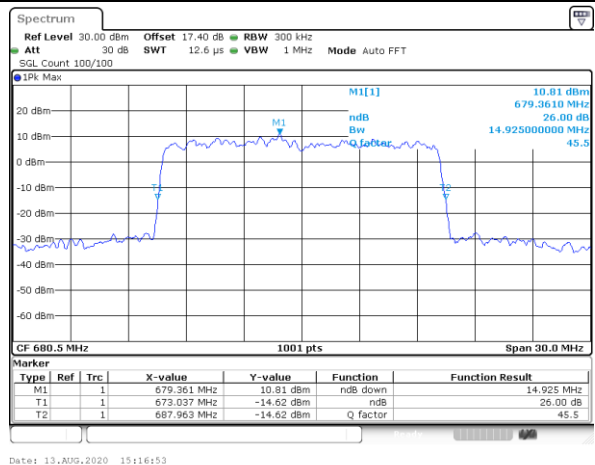
16QAM

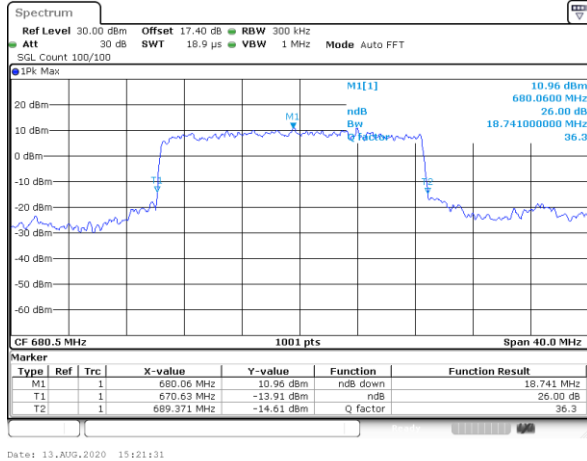
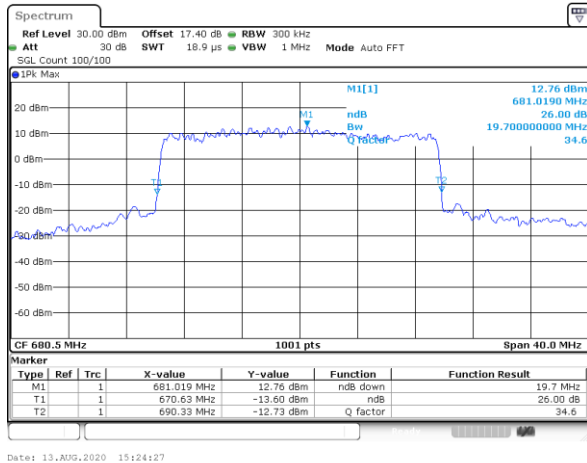
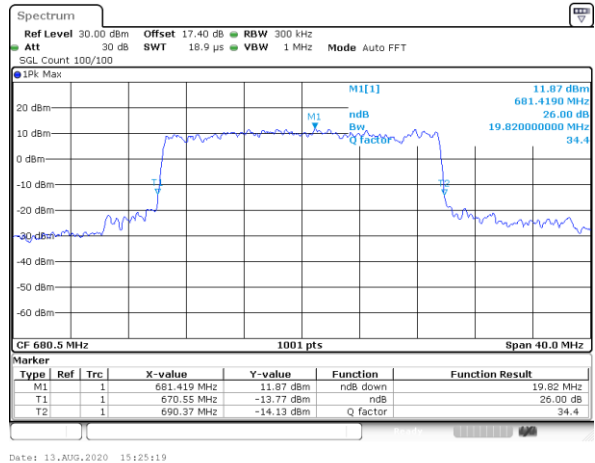
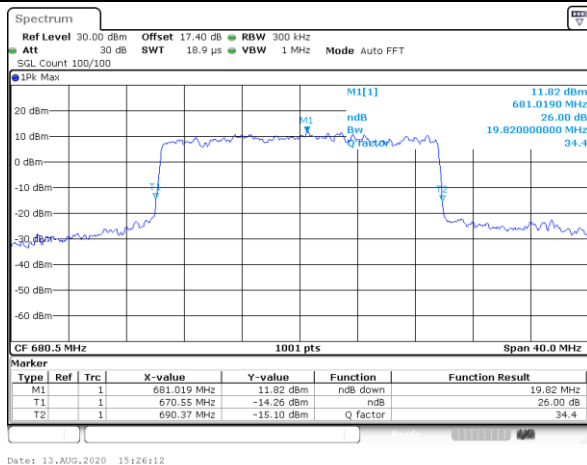
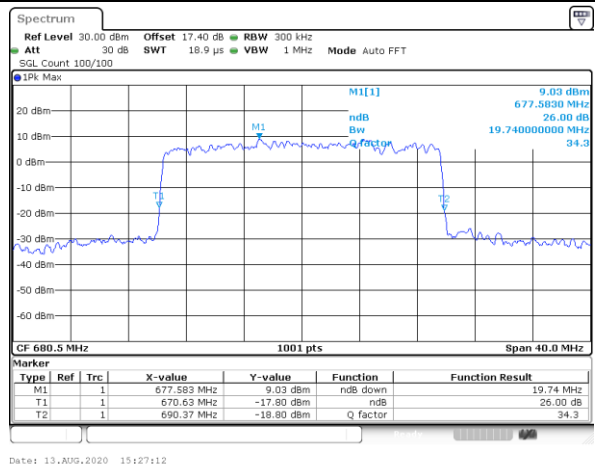


64QAM



256QAM



FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel
PI/2 BPSK

FR1 n71 / 20MHz / CP OFDM
QPSK

16QAM

64QAM

256QAM


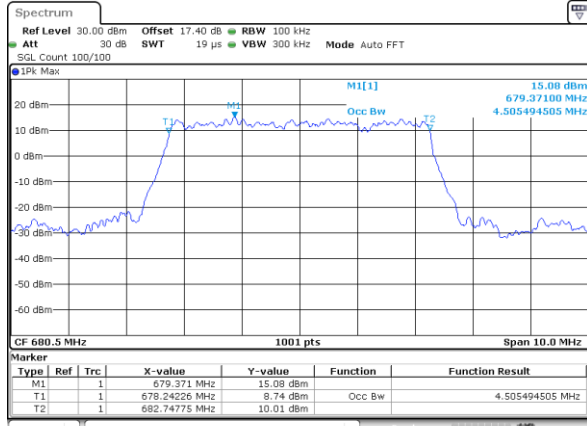
**Occupied Bandwidth**

Mode	FR1 n71 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.51		8.93		13.46		17.82	

Mode	FR1 n71 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.50	4.50	9.27	9.25	14.06	14.18	18.86	18.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.46	4.49	9.27	9.27	14.15	14.15	18.78	18.90

FR1 n71 / 5MHz / DFT-S OFDM / Middle Channel

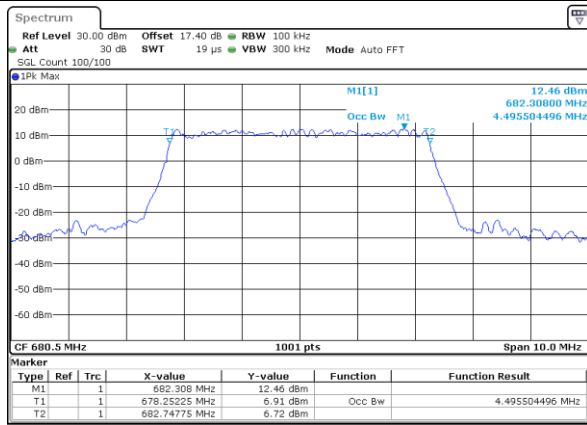
PI/2 BPSK



Date: 13.AUG.2020 14:55:46

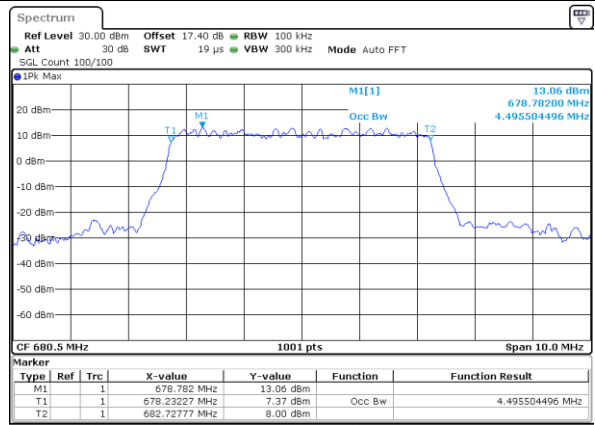
FR1 n71 / 5MHz / CP OFDM

QPSK



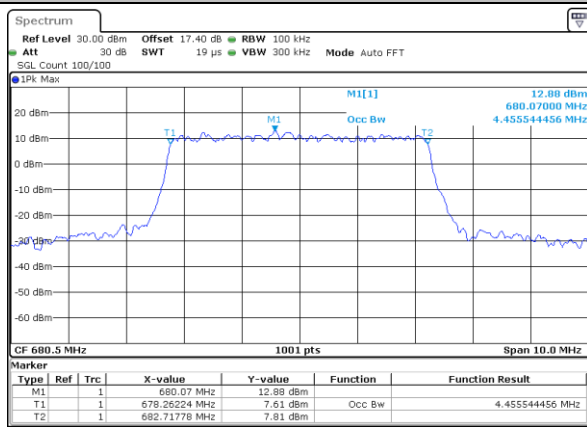
Date: 13.AUG.2020 14:55:52

16QAM



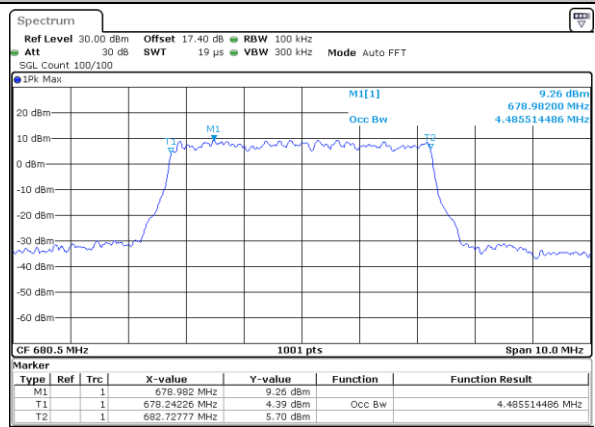
Date: 13.AUG.2020 14:52:43

64QAM



Date: 13.AUG.2020 14:53:53

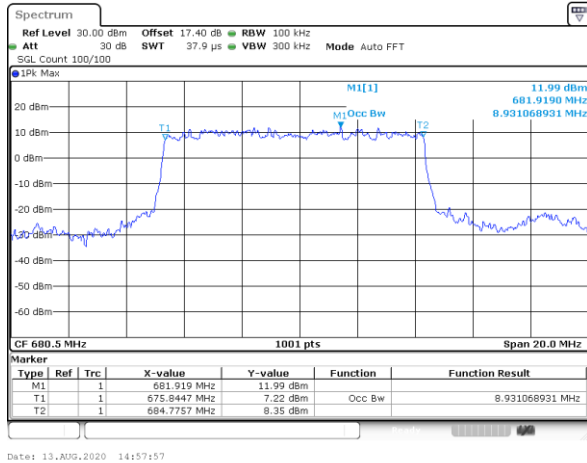
256QAM



Date: 13.AUG.2020 14:54:40

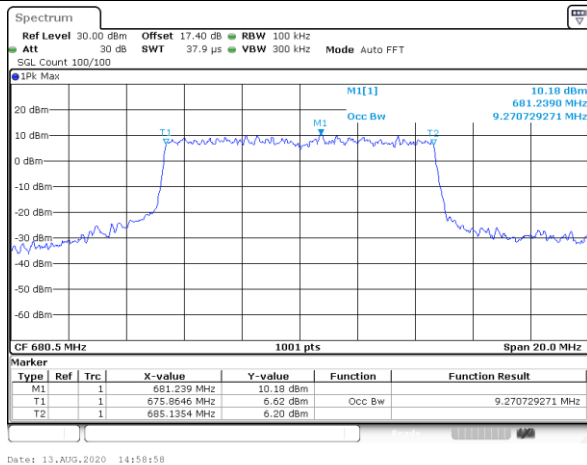
FR1 n71 / 10MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

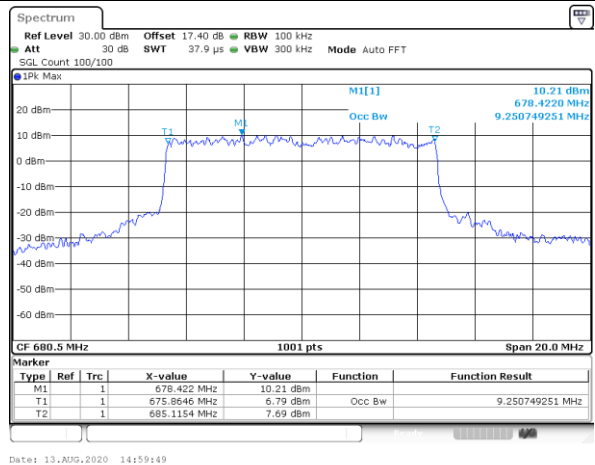


FR1 n71 / 10MHz / CP OFDM

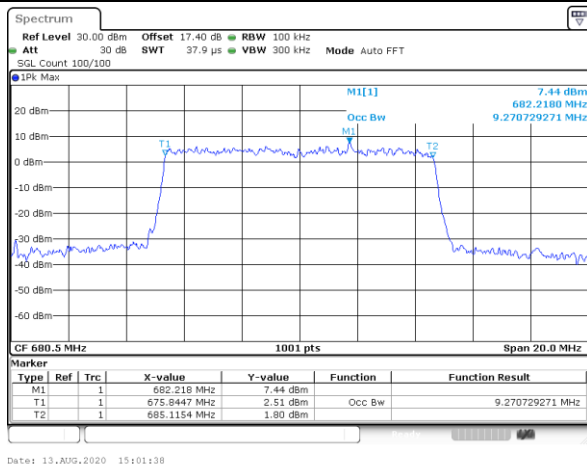
QPSK



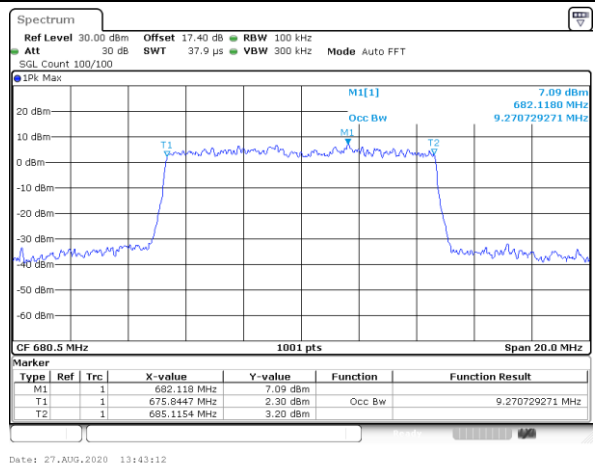
16QAM



64QAM

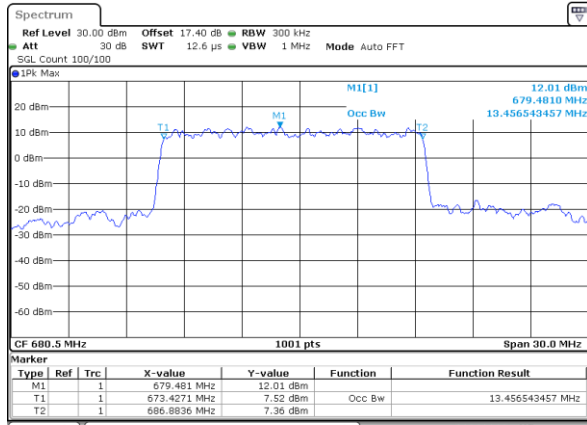


256QAM



FR1 n71 / 15MHz / DFT-S OFDM / Middle Channel

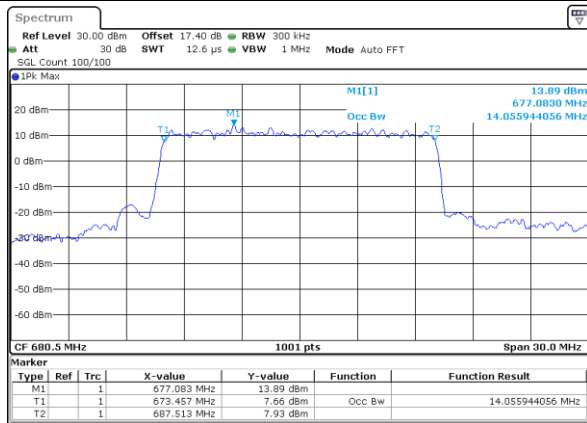
PI/2 BPSK



Date: 13.AUG.2020 15:18:57

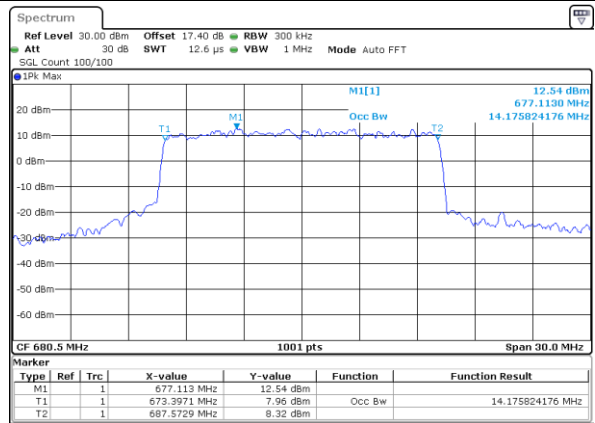
FR1 n71 / 15MHz / CP OFDM

QPSK



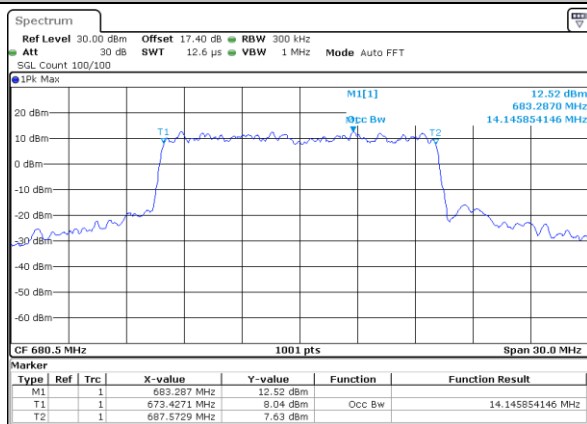
Date: 13.AUG.2020 15:13:59

16QAM



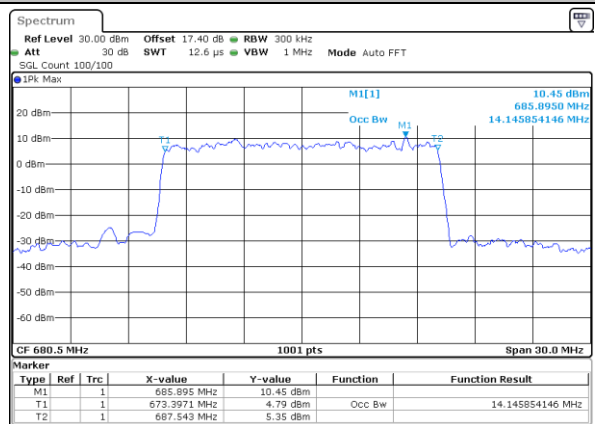
Date: 13.AUG.2020 15:15:15

64QAM



Date: 13.AUG.2020 15:16:16

256QAM

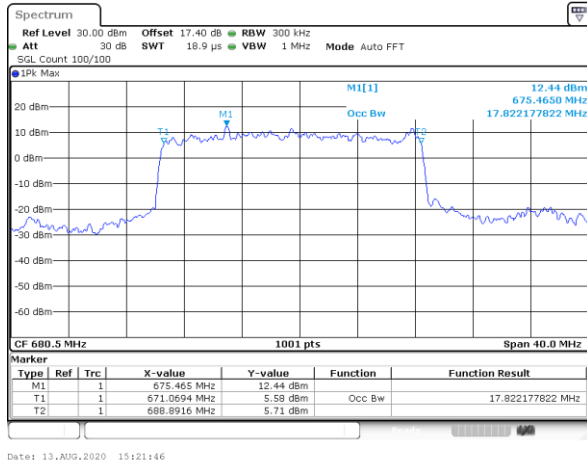


Date: 13.AUG.2020 15:18:13



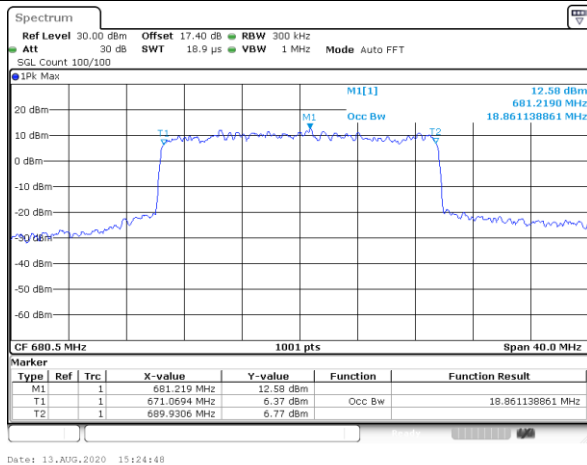
FR1 n71 / 20MHz / DFT-S OFDM / Middle Channel

PI/2 BPSK

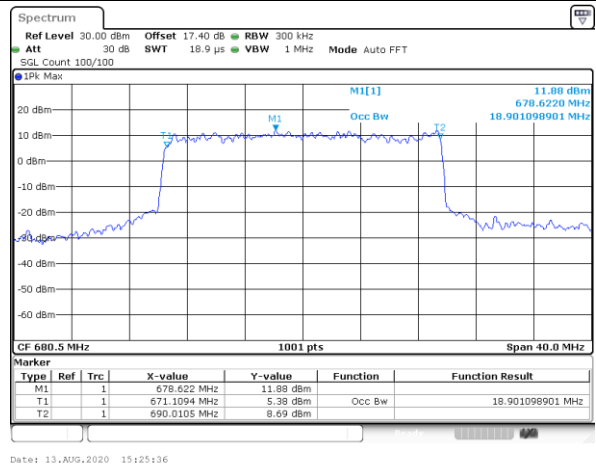


FR1 n71 / 20MHz / CP OFDM

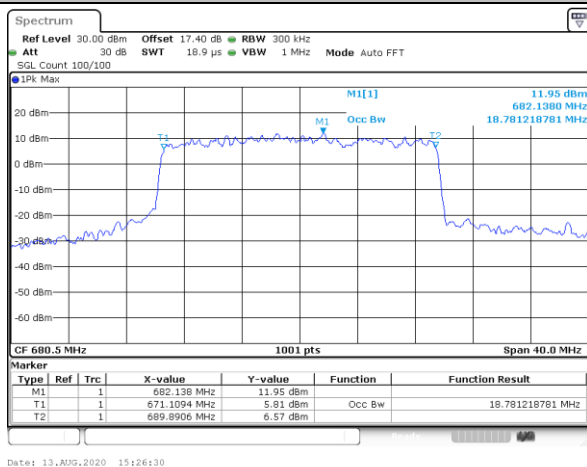
QPSK



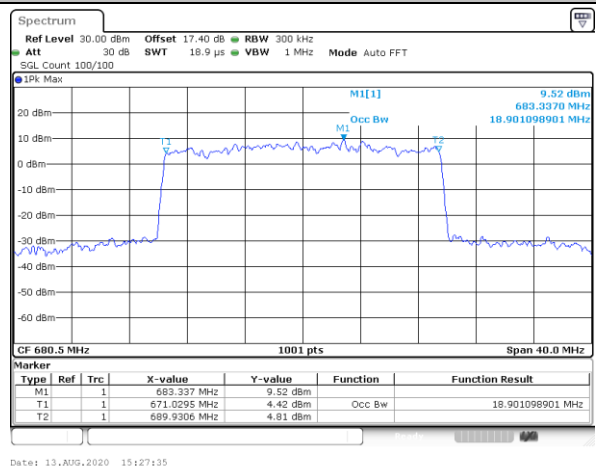
16QAM



64QAM



256QAM

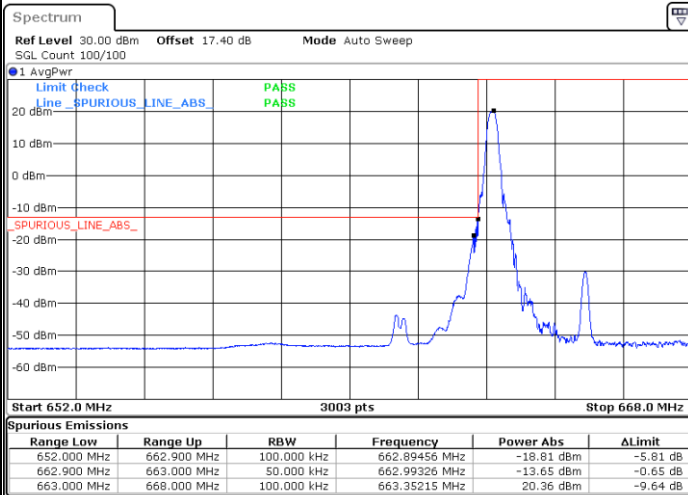


**Conducted Band Edge**

FR1 n71 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



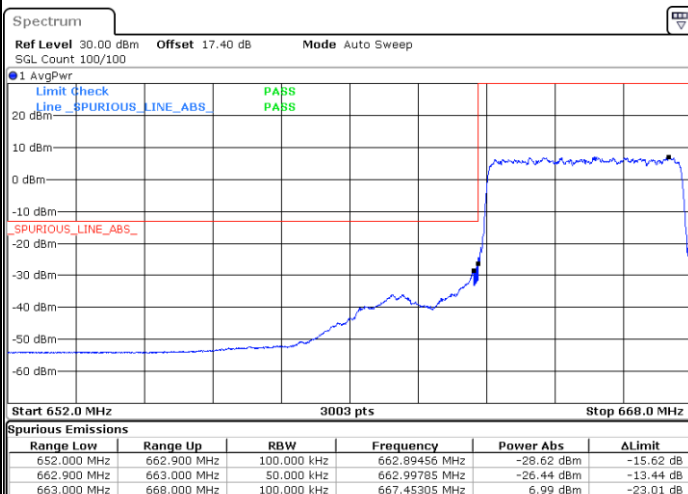
Date: 12.AUG.2020 17:31:23



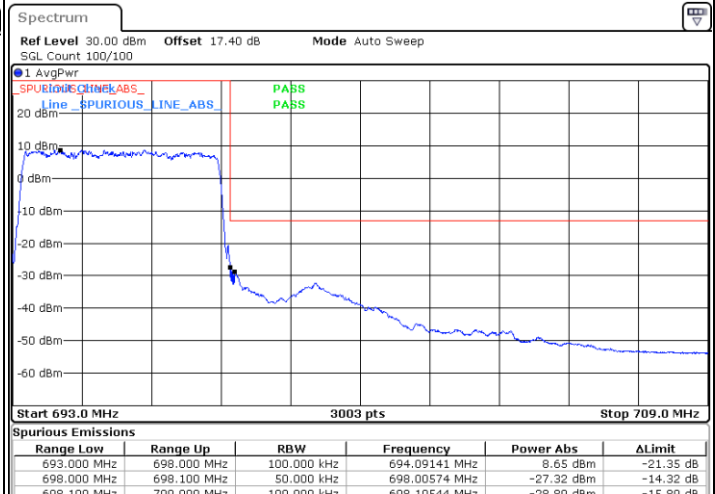
Date: 12.AUG.2020 19:54:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2020 17:28:56



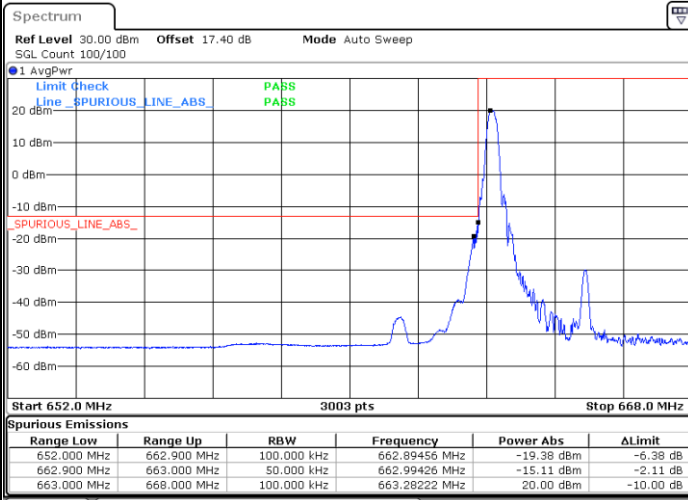
Date: 12.AUG.2020 19:47:55



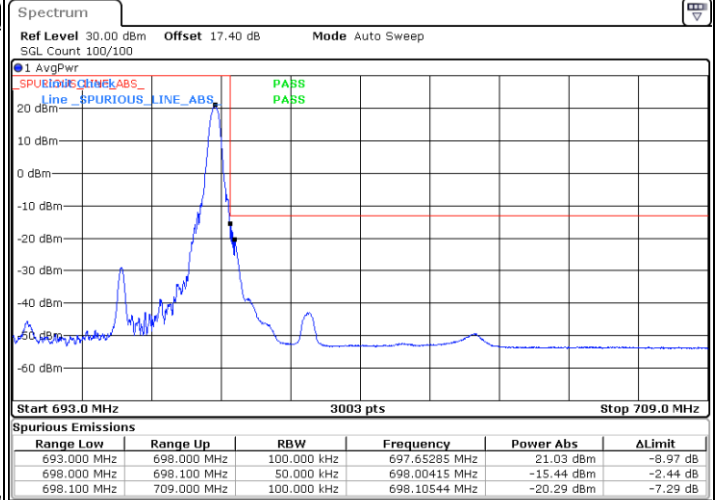
FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



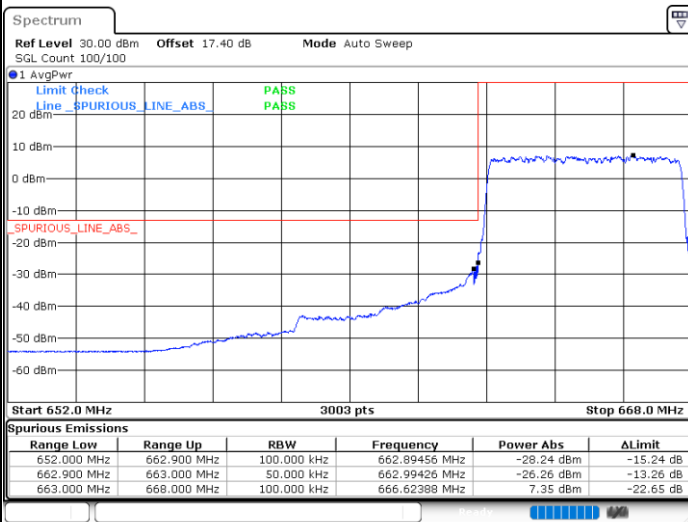
Date: 12.AUG.2020 17:32:26



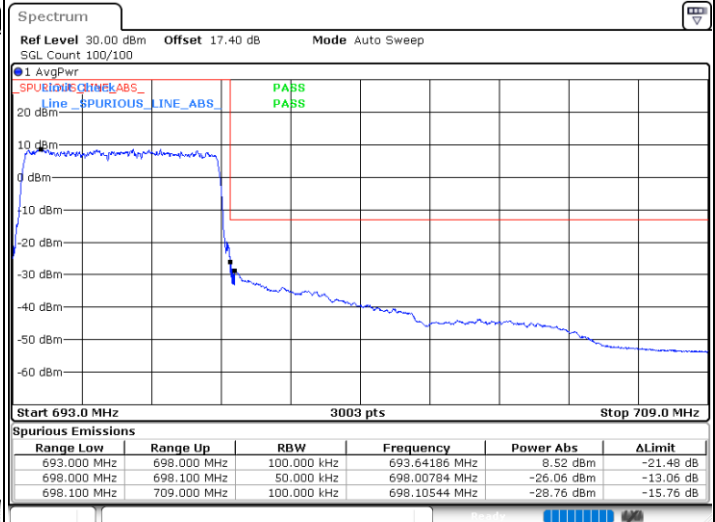
Date: 12.AUG.2020 19:55:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2020 17:29:58



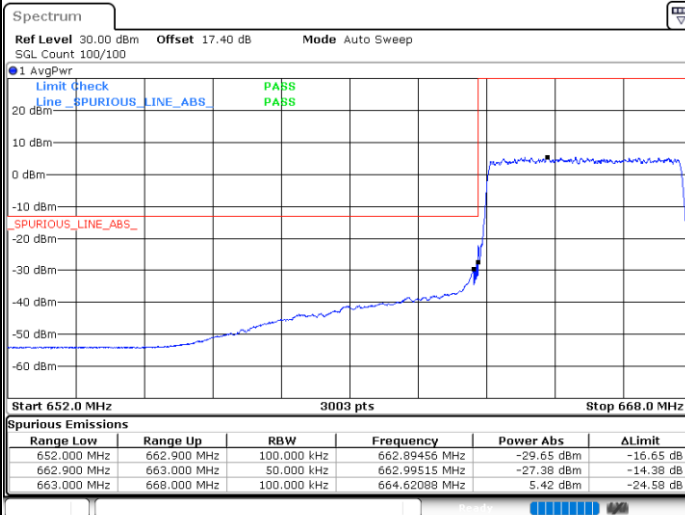
Date: 12.AUG.2020 19:49:25



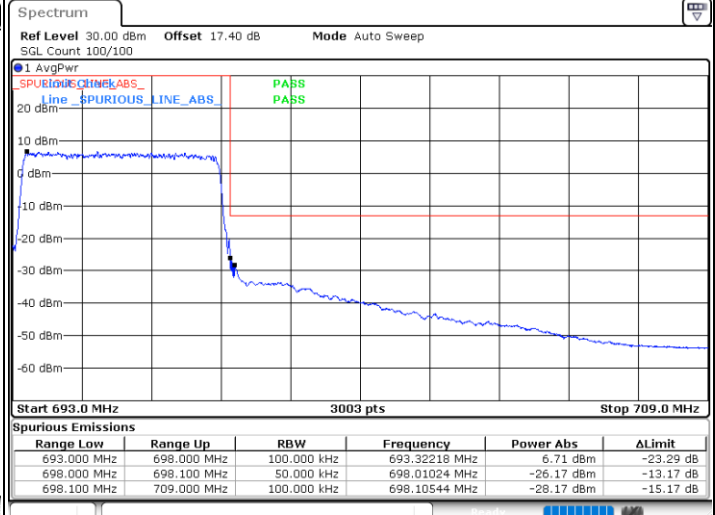
FR1 n71 / 5MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2020 17:27:29



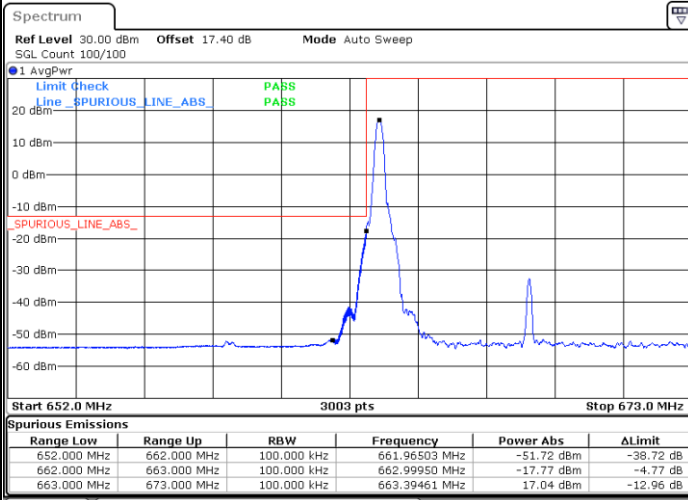
Date: 12.AUG.2020 19:45:52



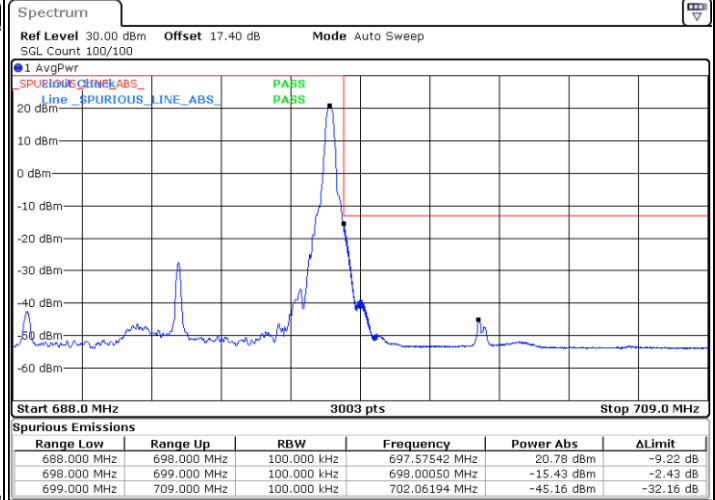
FR1 n71 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



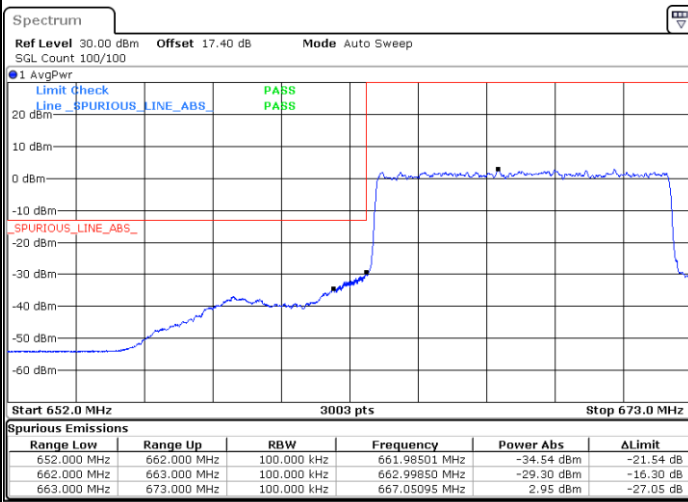
Date: 12.AUG.2020 17:38:14



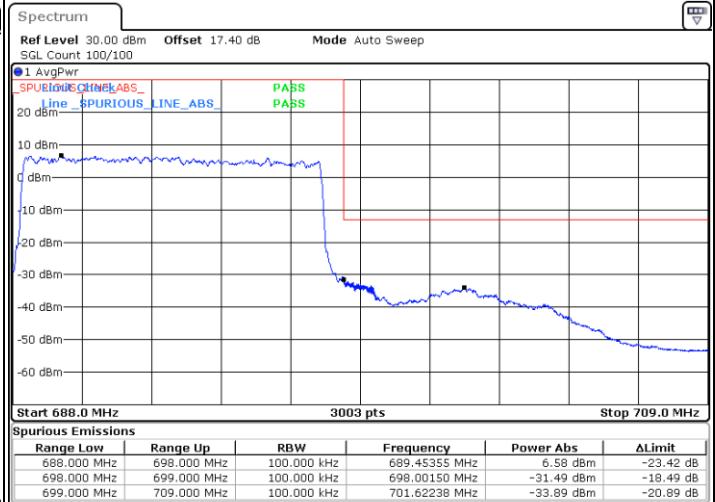
Date: 12.AUG.2020 20:01:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2020 17:36:49



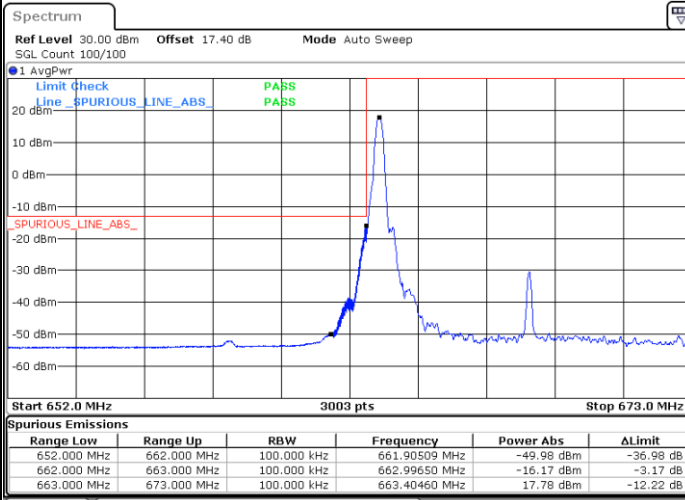
Date: 12.AUG.2020 20:00:25



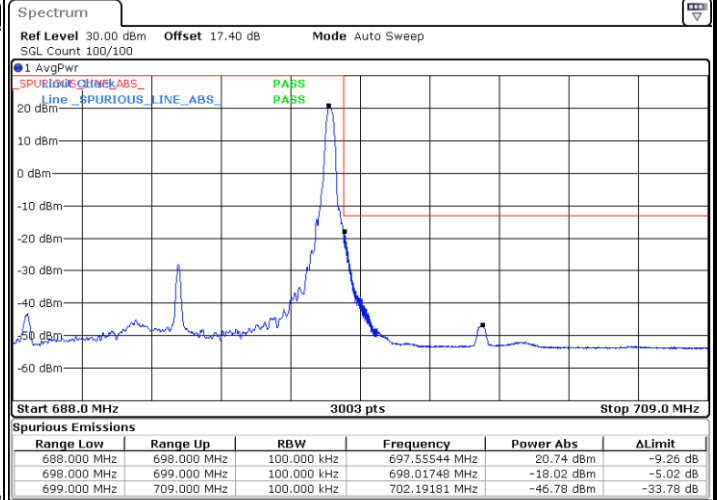
FR1 n71 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



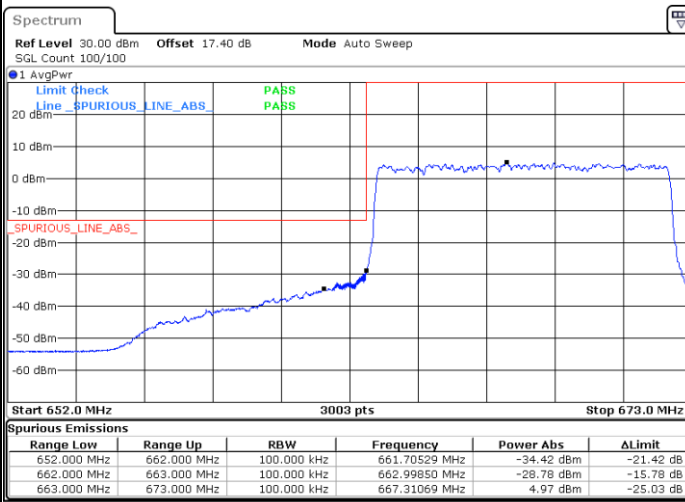
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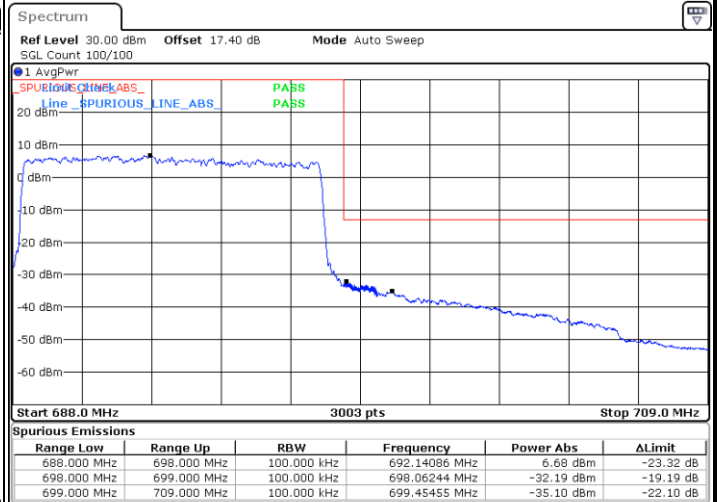
Date: 12.AUG.2020 20:03:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2020 17:35:34



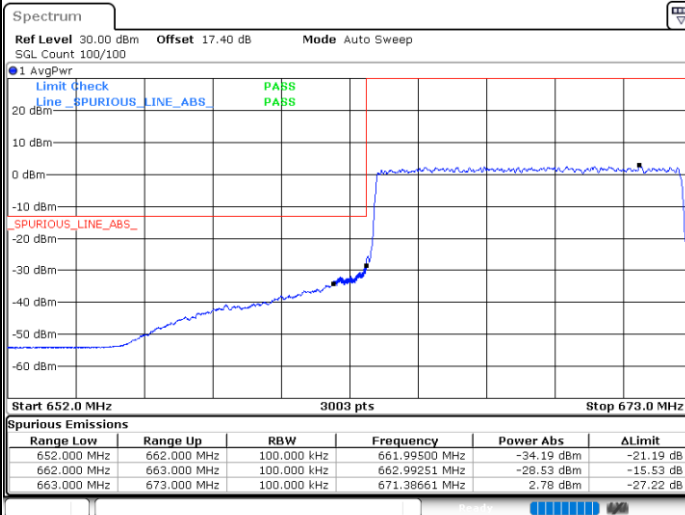
Date: 12.AUG.2020 19:59:20



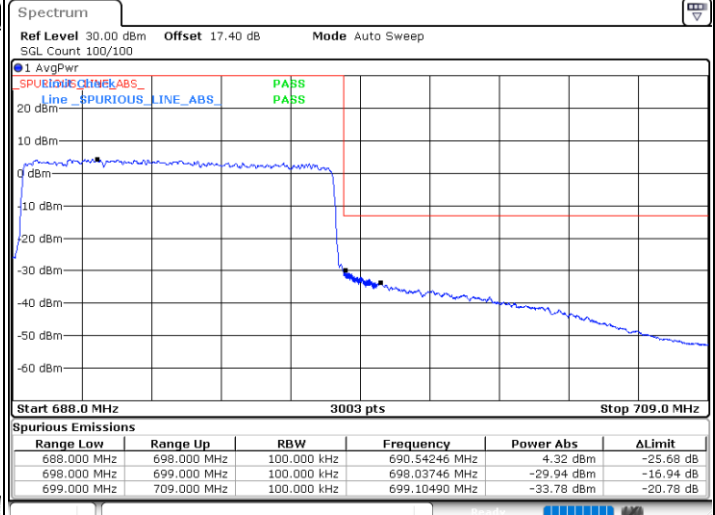
FR1 n71 / 10MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2020 17:34:17



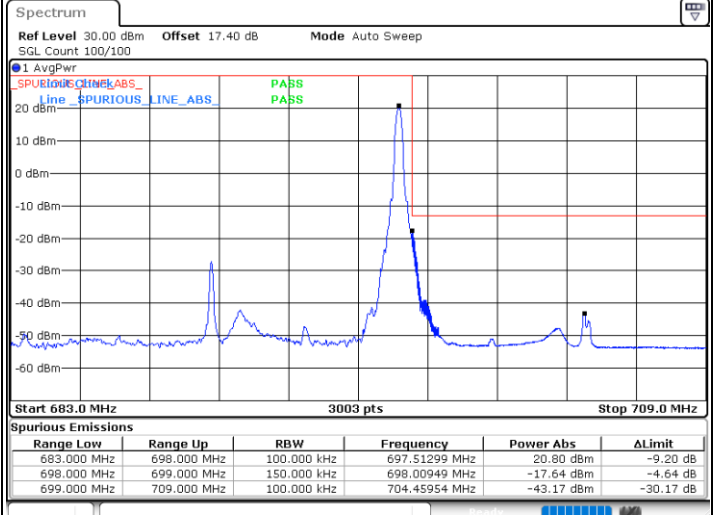
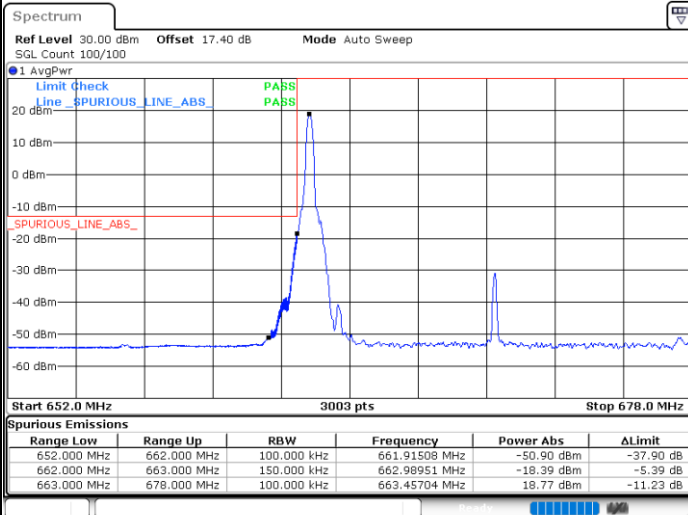
Date: 12.AUG.2020 19:57:59



FR1 n71 / 15MHz / DFT-s-OFDM / PI/2 BPSK

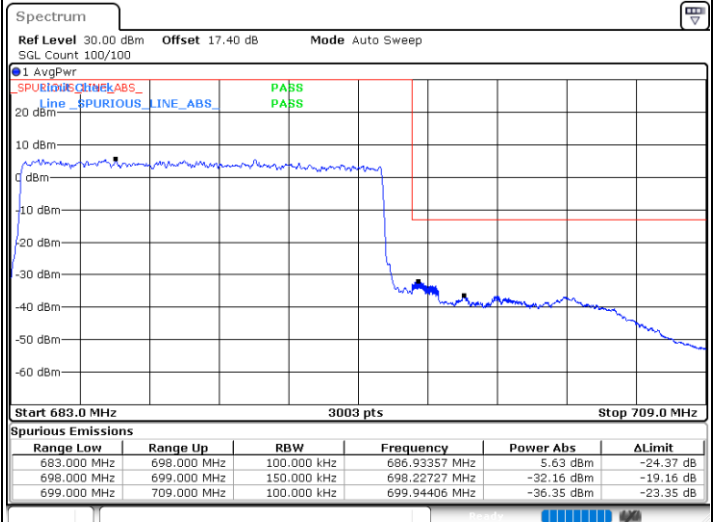
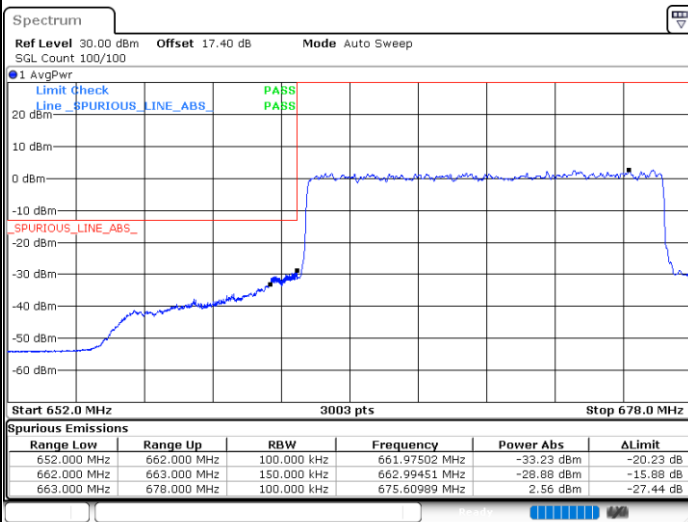
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

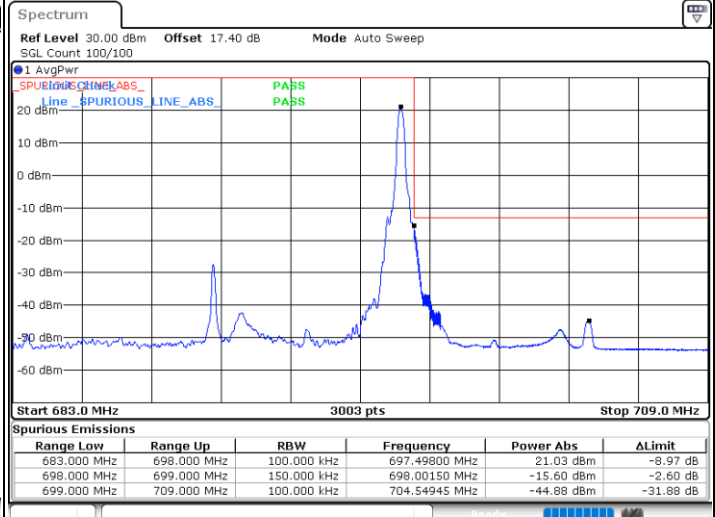
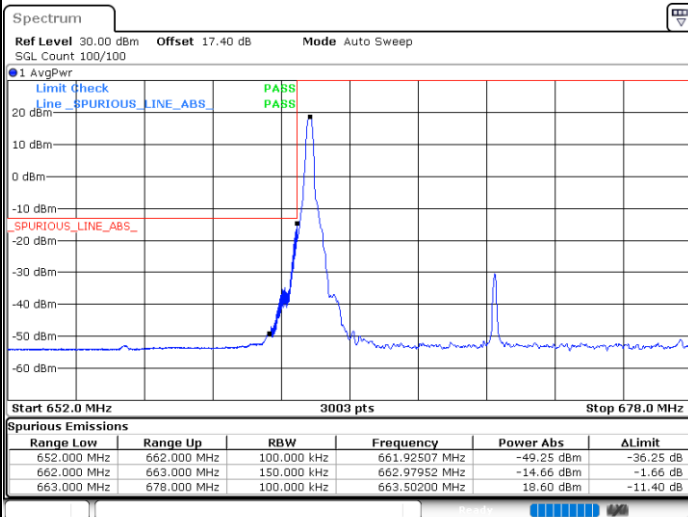




FR1 n71 / 15MHz / DFT-s-OFDM / QPSK

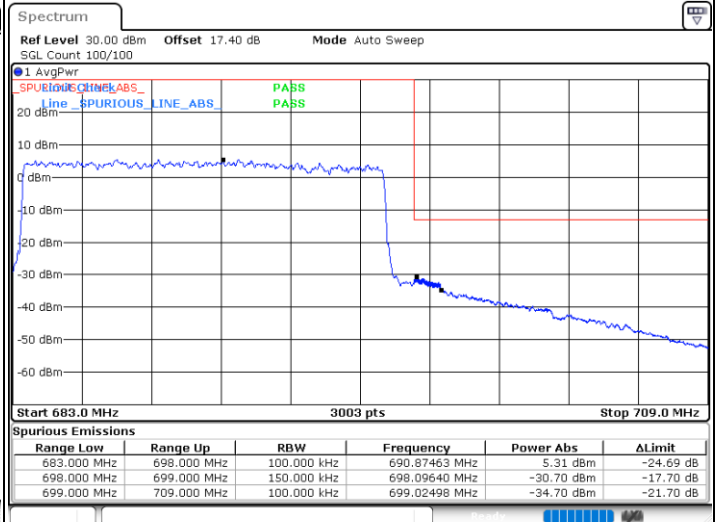
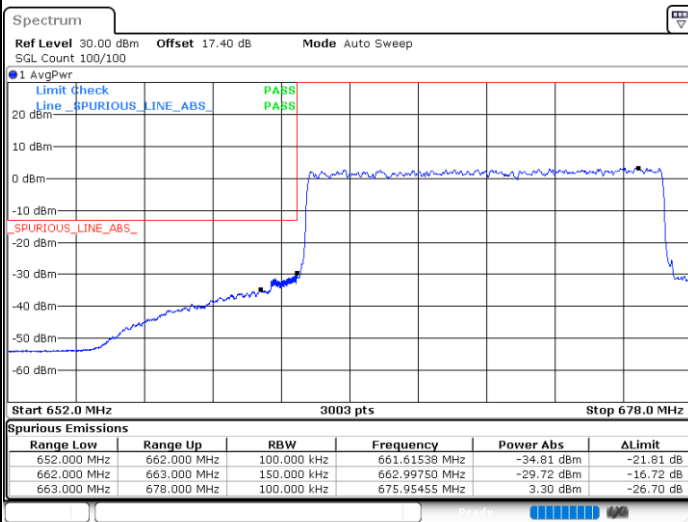
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

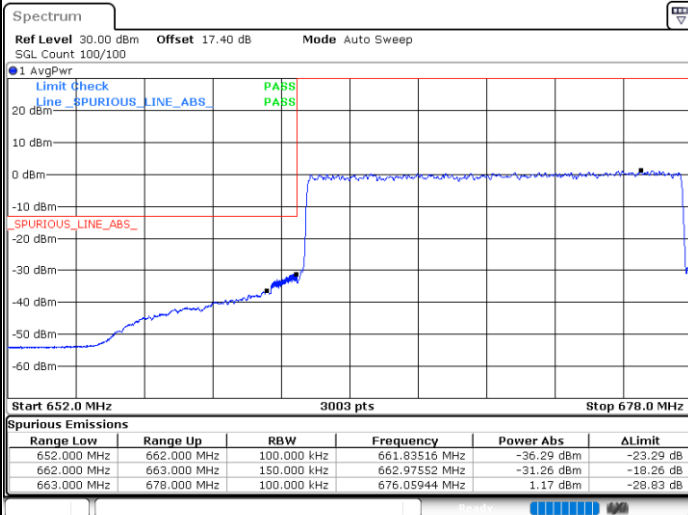




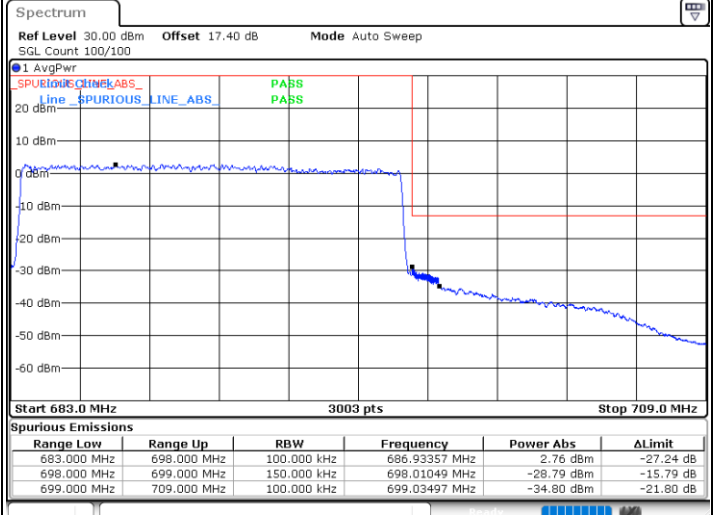
FR1 n71 / 15MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2020 17:41:27



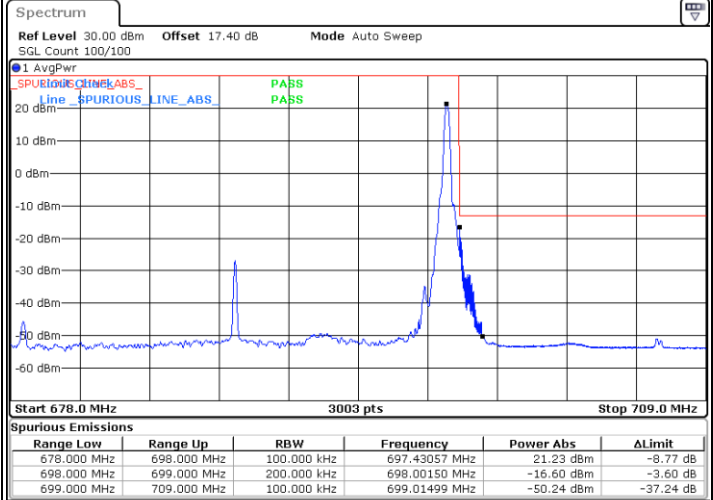
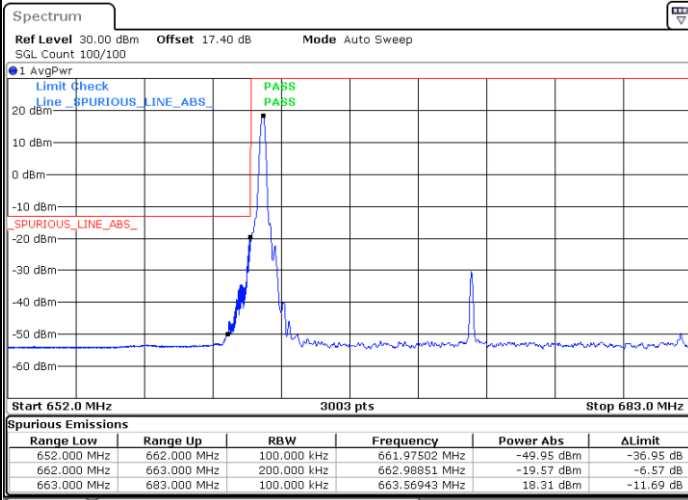
Date: 12.AUG.2020 20:06:03



FR1 n71 / 20MHz / DFT-s-OFDM / PI/2 BPSK

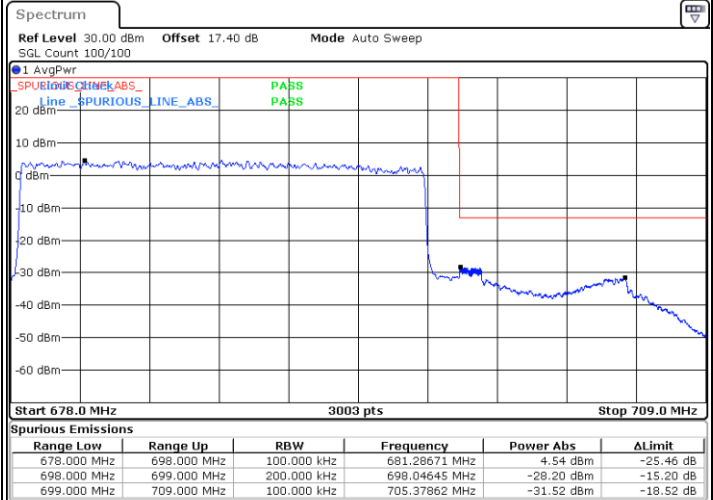
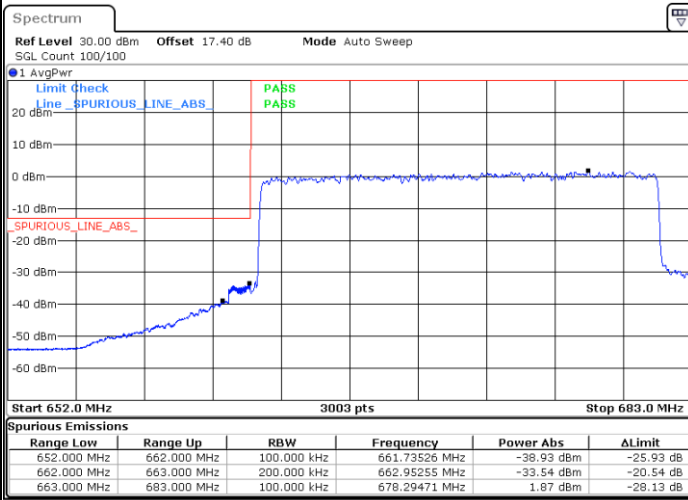
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

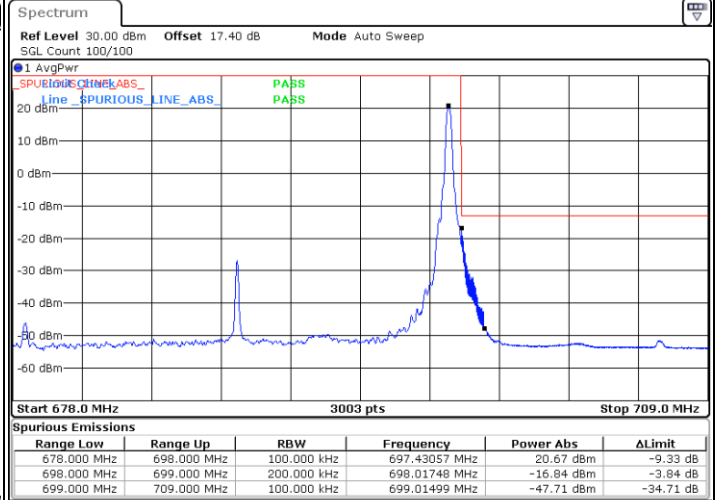
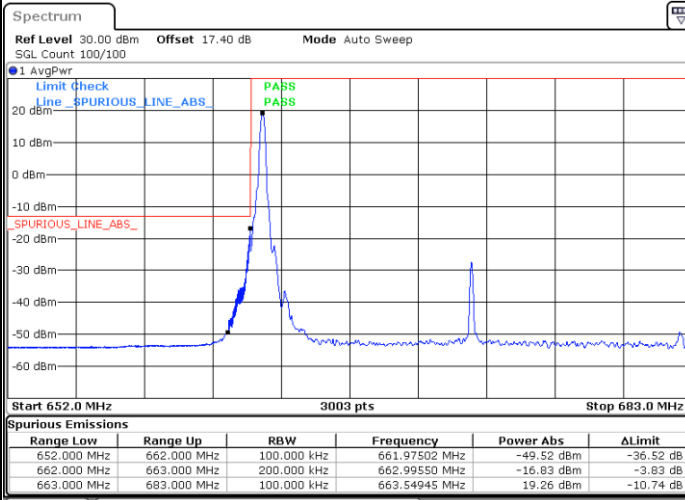




FR1 n71 / 20MHz / DFT-s-OFDM / QPSK

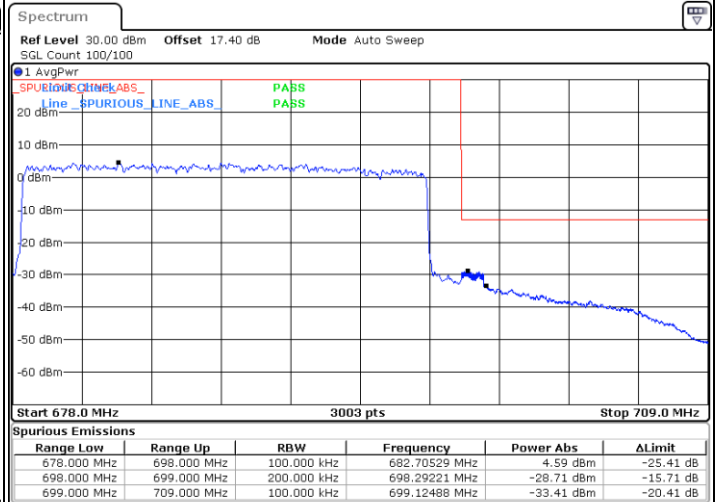
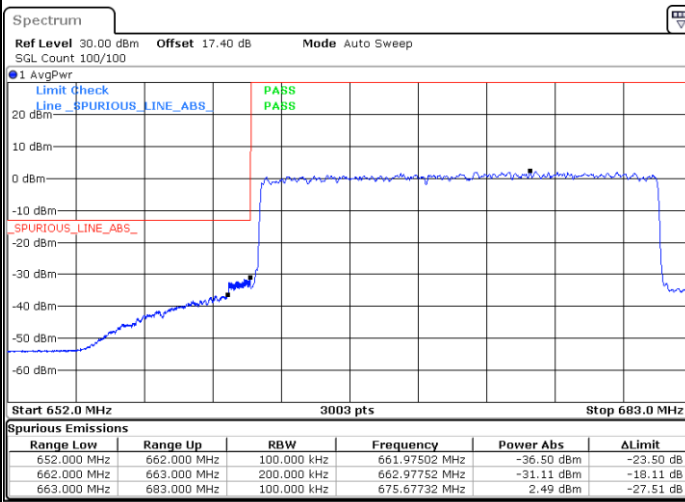
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

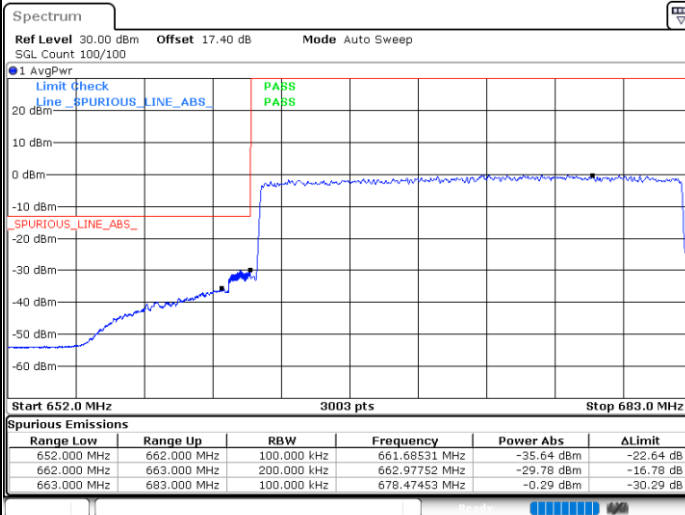




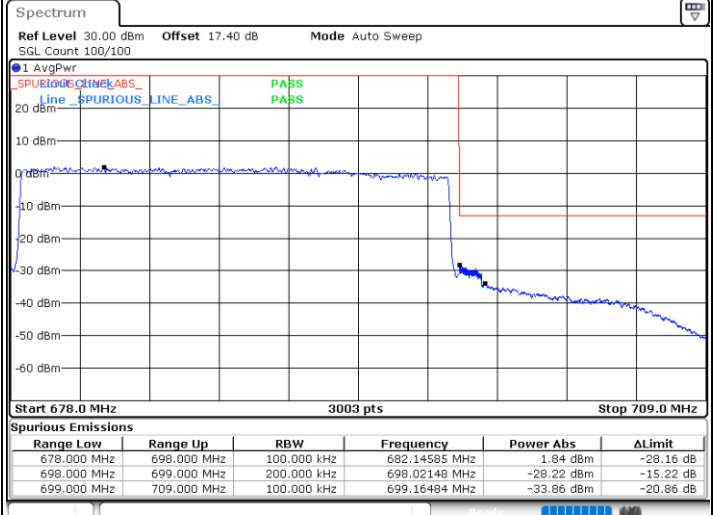
FR1 n71 / 20MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 12.AUG.2020 17:50:10



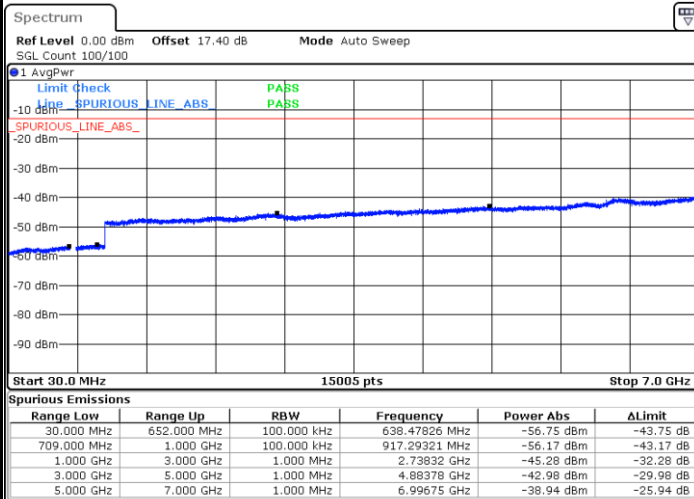
Date: 12.AUG.2020 20:20:58



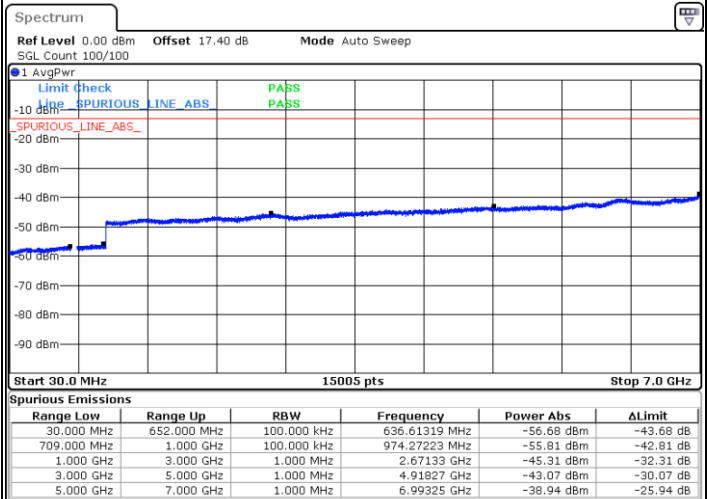
Conducted Spurious Emission

FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



Middle Channel / 1RB1



Highest Channel / 1RB1

