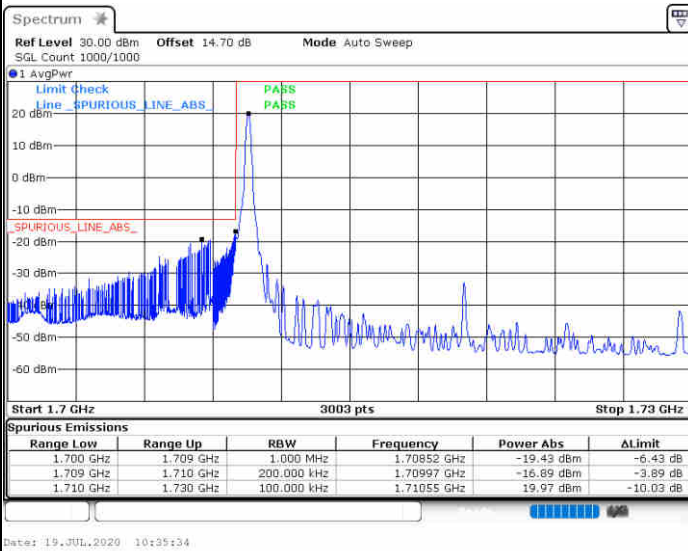




FR1 n66 / 20MHz / DFT-S OFDM BPSK

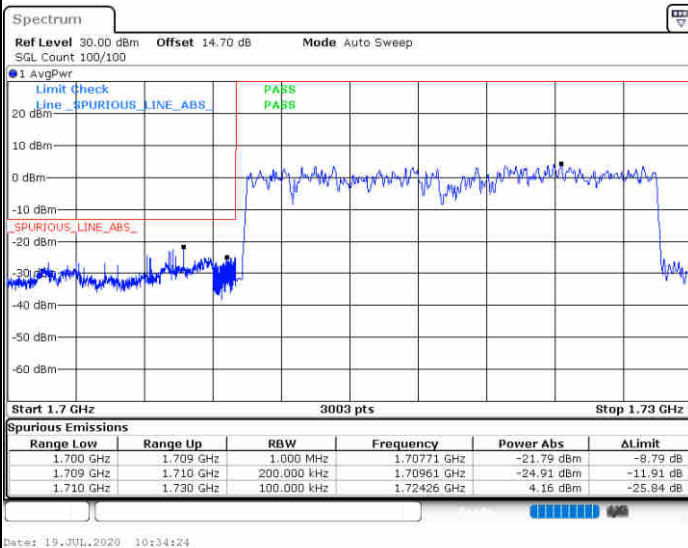
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

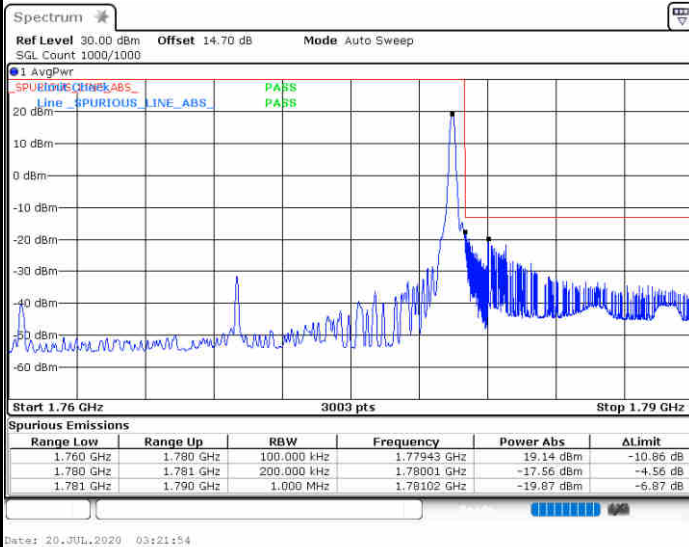




FR1 n66 / 20MHz / DFT-S OFDM BPSK

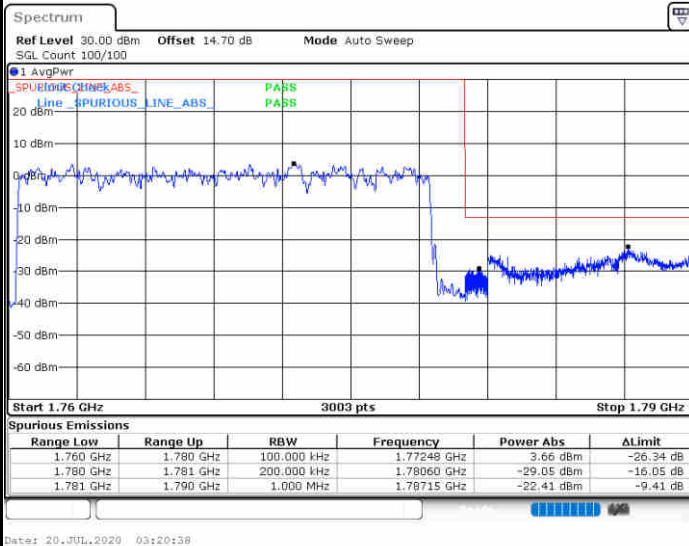
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

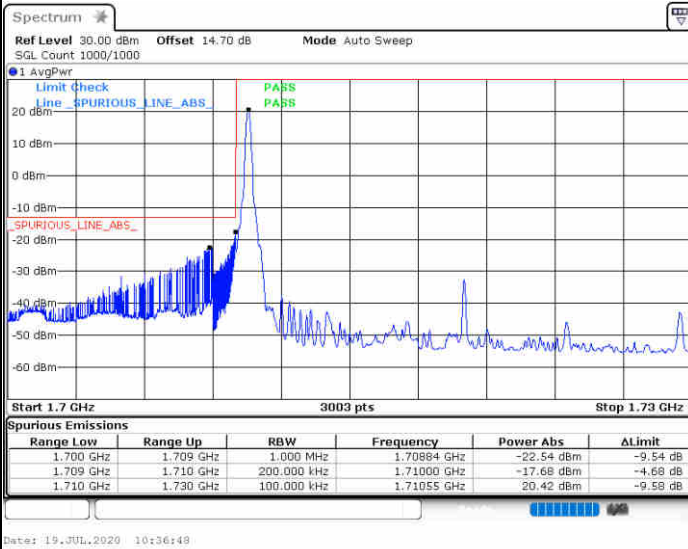




FR1 n66 / 20MHz / DFT-S OFDM QPSK

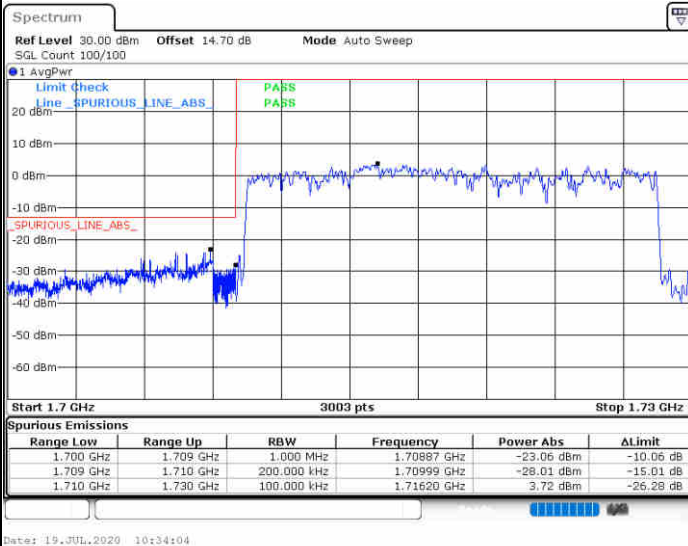
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

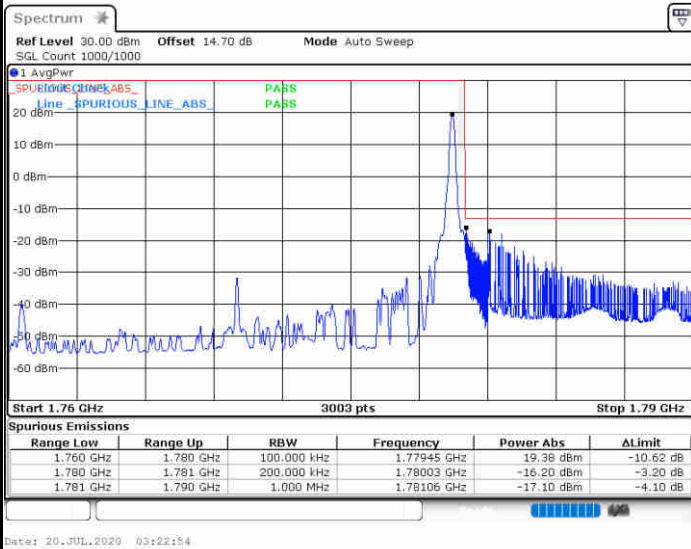




FR1 n66 / 20MHz / DFT-S OFDM QPSK

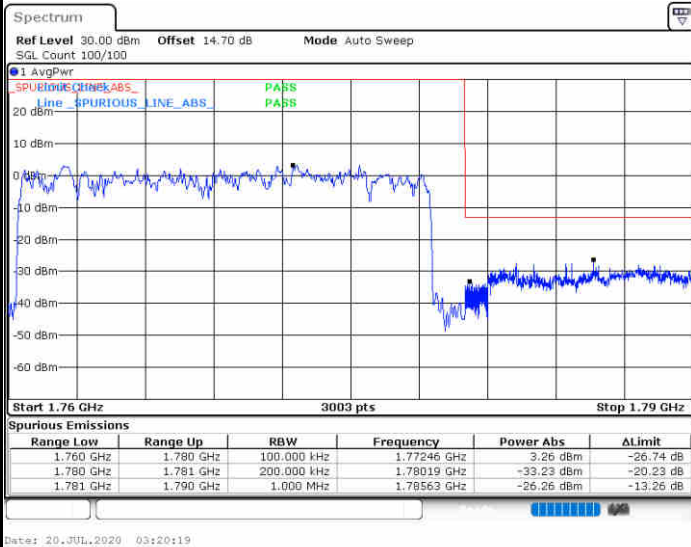
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

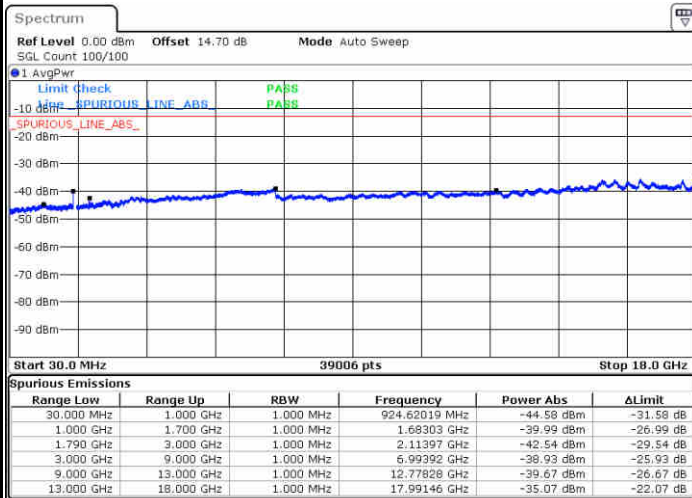




Conducted Spurious Emission

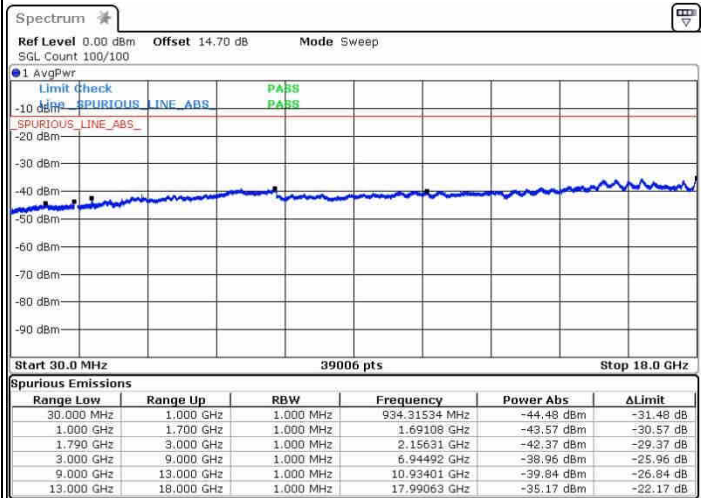
FR1 n66 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



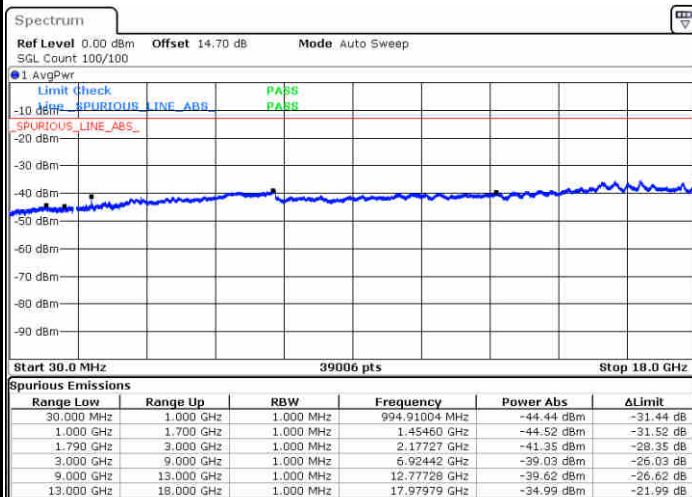
Date: 20.JUL.2020 04:07:38

Middle Channel / 1RB



Date: 20.JUL.2020 04:41:34

Highest Channel / 1RB

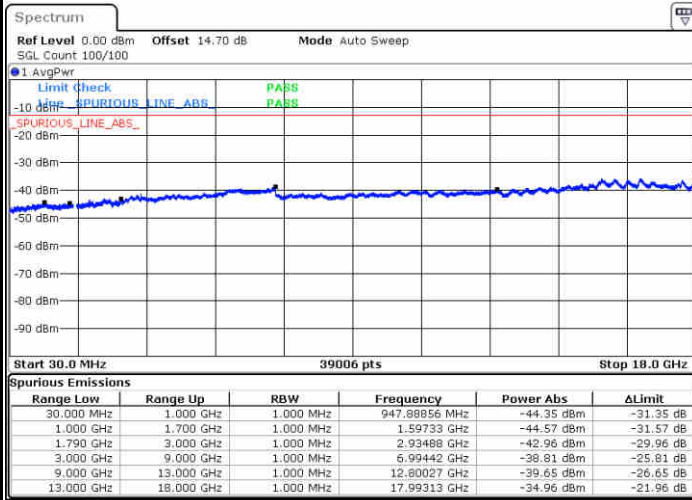


Date: 20.JUL.2020 04:58:25



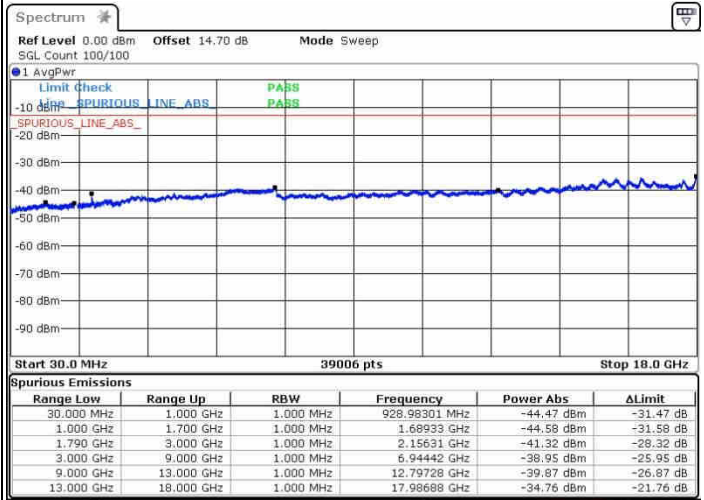
FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



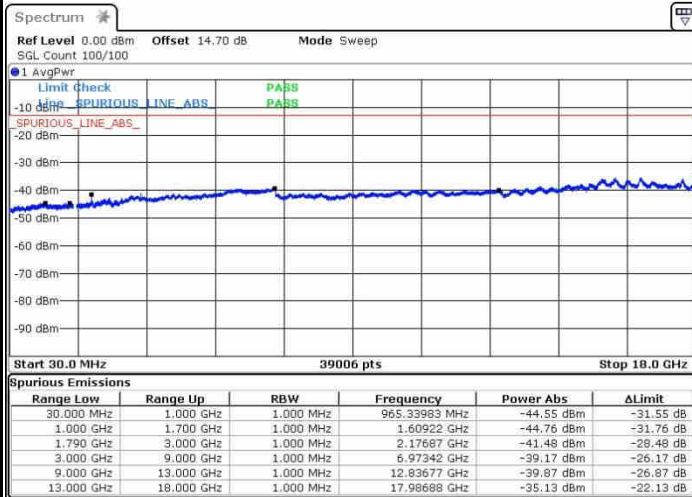
Date: 20.JUL.2020 04:02:10

Middle Channel / 1RB



Date: 20.JUL.2020 04:40:31

Highest Channel / 1RB

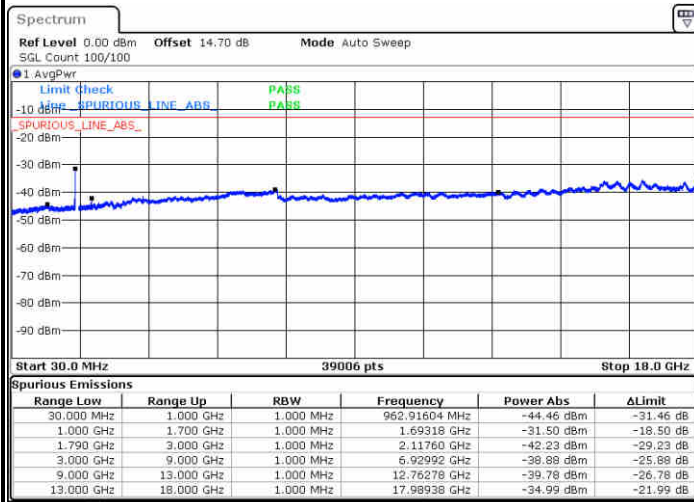


Date: 20.JUL.2020 04:59:19



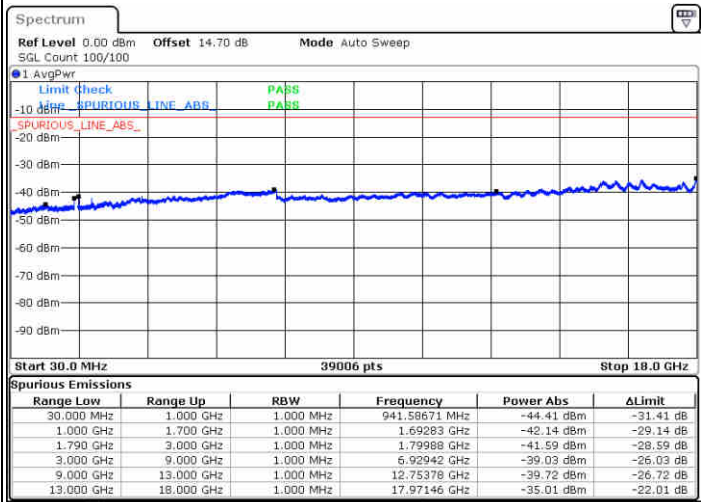
FR1 n66 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



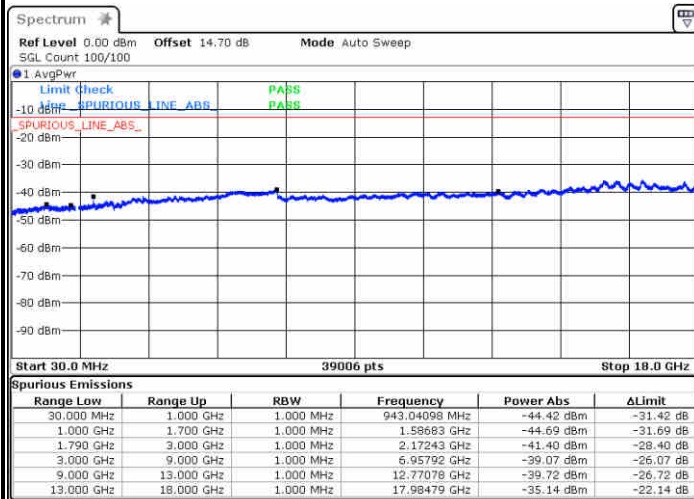
Date: 19.JUL.2020 12:48:00

Middle Channel / 1RB



Date: 19.JUL.2020 12:55:02

Highest Channel / 1RB

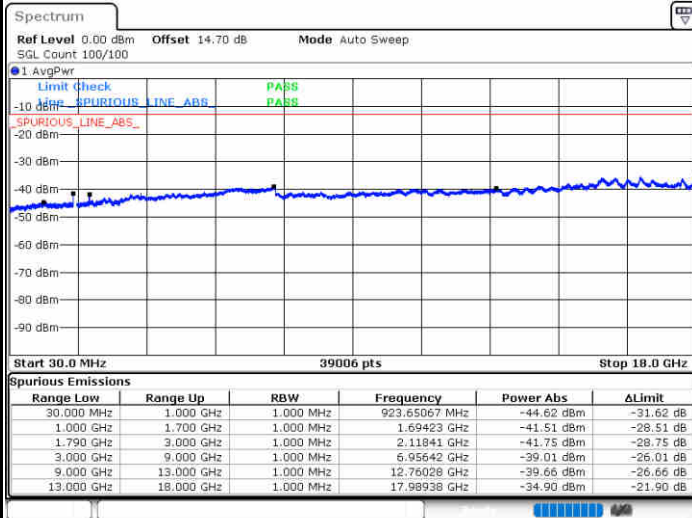


Date: 20.JUL.2020 05:37:31



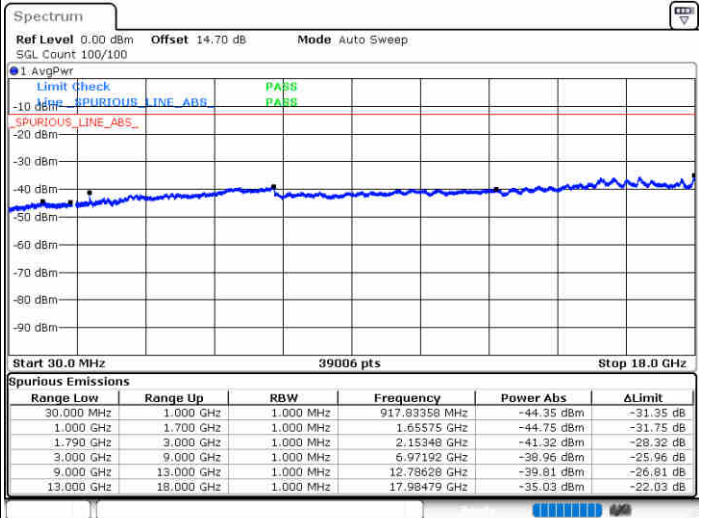
FR1 n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



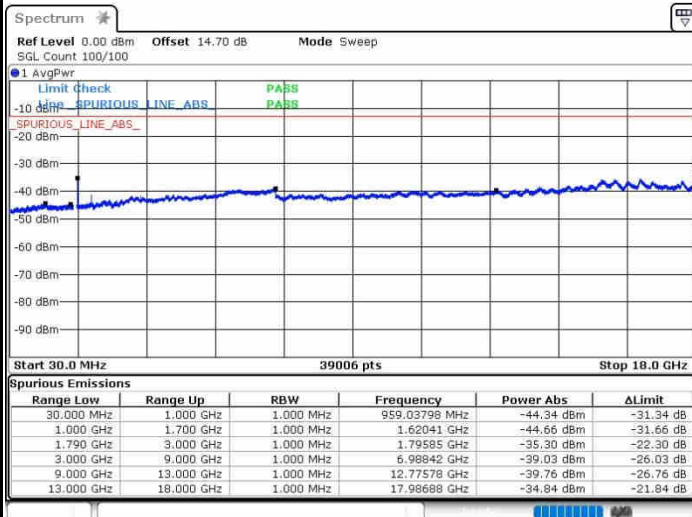
Date: 19.JUL.2020 12:46:07

Middle Channel / 1RB



Date: 19.JUL.2020 12:53:13

Highest Channel / 1RB

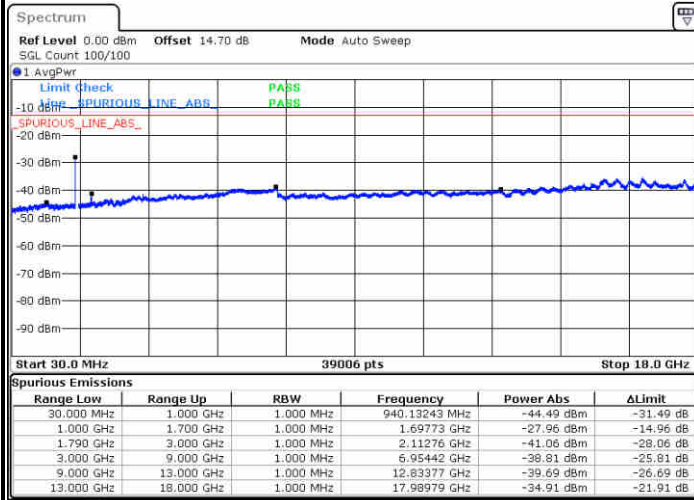


Date: 20.JUL.2020 05:38:33



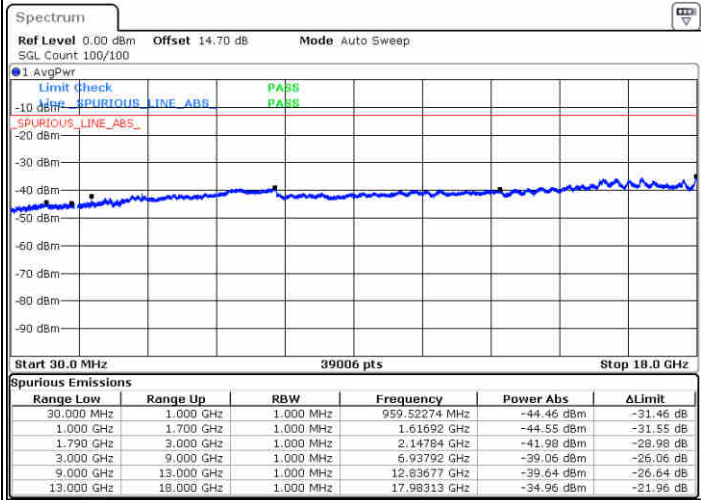
FR1 n66 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



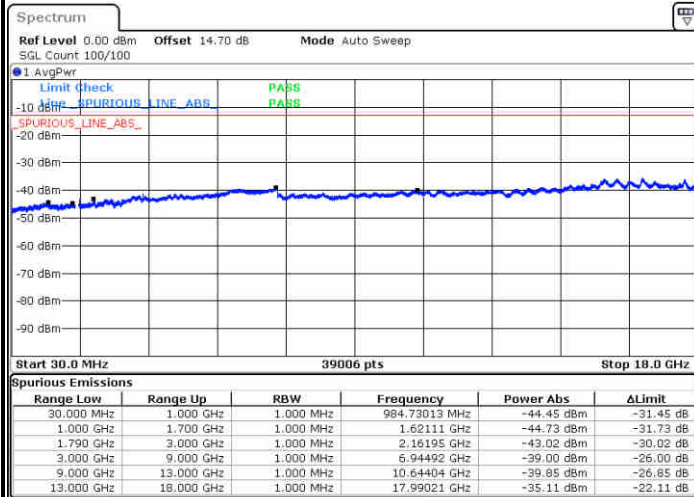
Date: 19.JUL.2020 10:41:43

Middle Channel / 1RB



Date: 19.JUL.2020 11:23:33

Highest Channel / 1RB

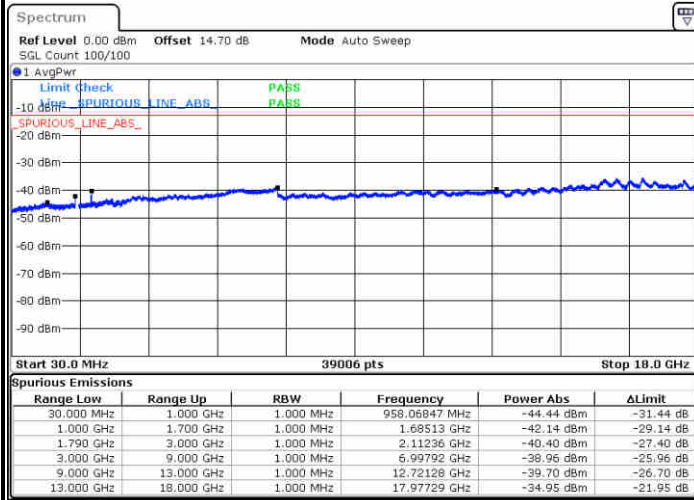


Date: 20.JUL.2020 03:25:25



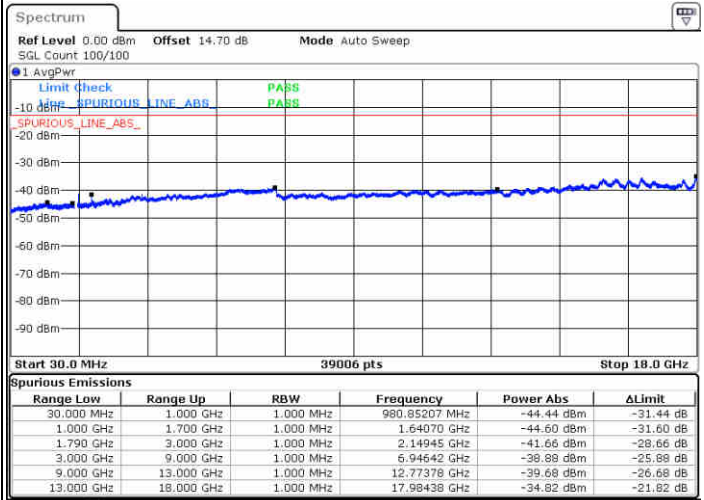
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



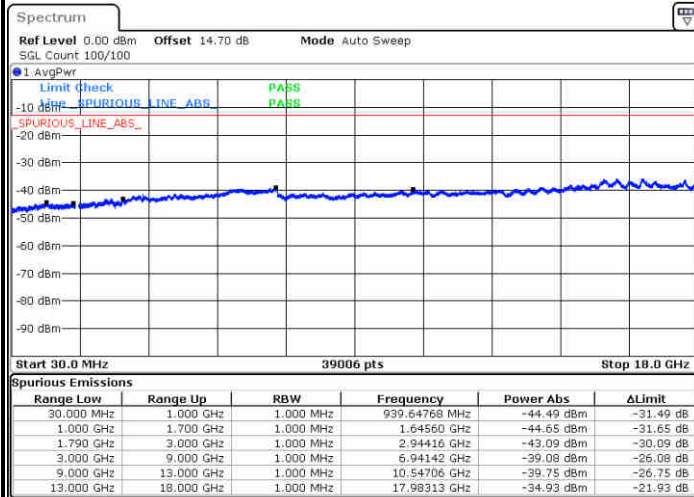
Date: 19.JUL.2020 10:43:04

Middle Channel / 1RB



Date: 19.JUL.2020 11:21:35

Highest Channel / 1RB



Date: 20.JUL.2020 03:23:59

**Frequency Stability**

Test Conditions		NR n66 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0015	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0026	



5G NR n71

NSA

Peak-to-Average Ratio

Mode	FR1 n71+66A / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	5.04	5.62	5.07	PASS
Middle CH	4.09	3.57	5.45	4.93	
Highest CH	4.17	3.8	5.54	5.04	



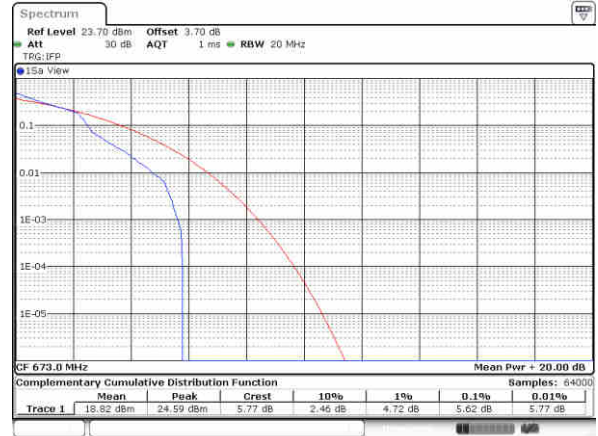
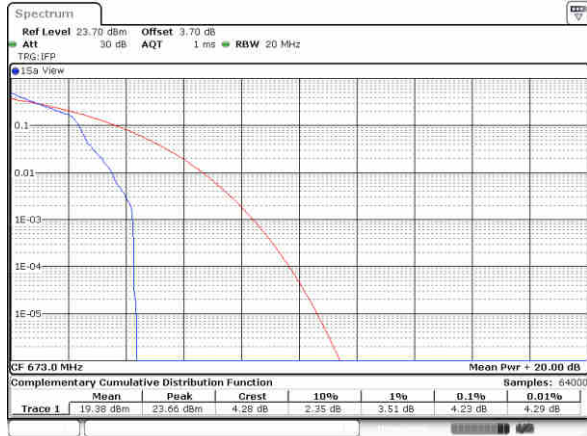
FR1 n71+66A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

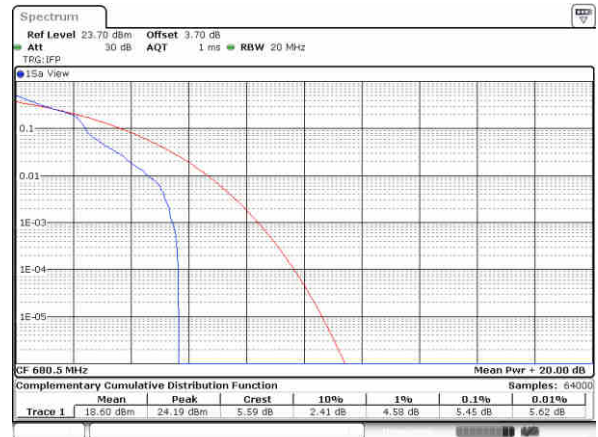
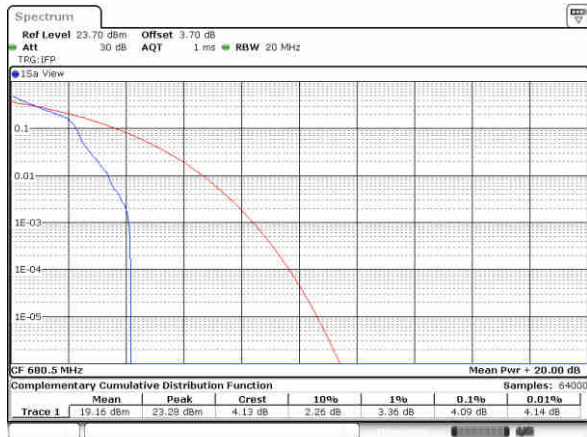
Lowest Channel / 1RB

Lowest Channel / 1RB



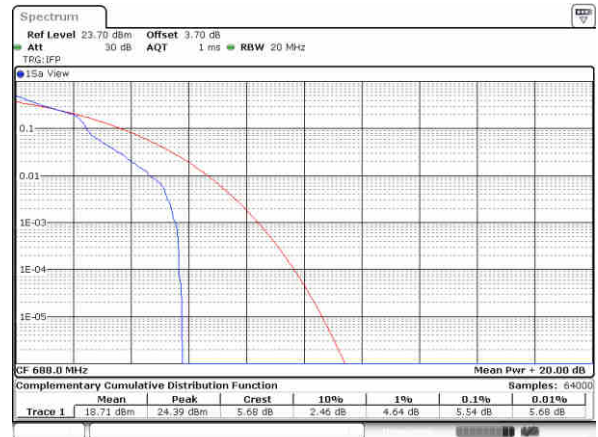
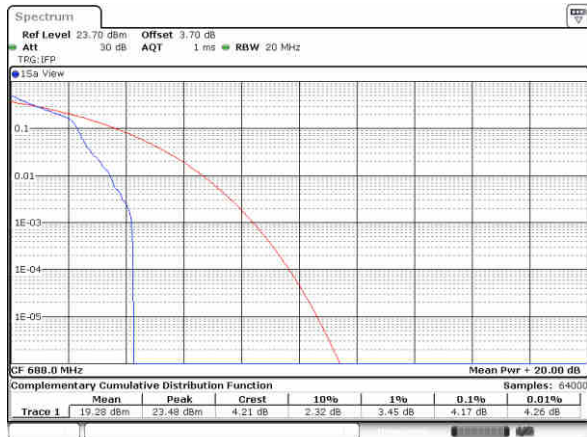
Middle Channel / 1 RB

Middle Channel / 1 RB



Highest Channel / 1 RB

Highest Channel / 1 RB





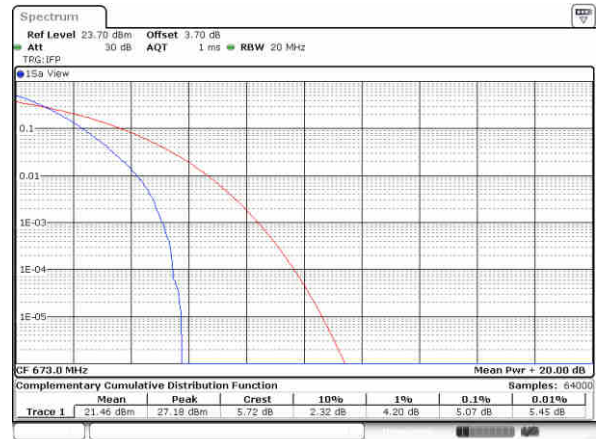
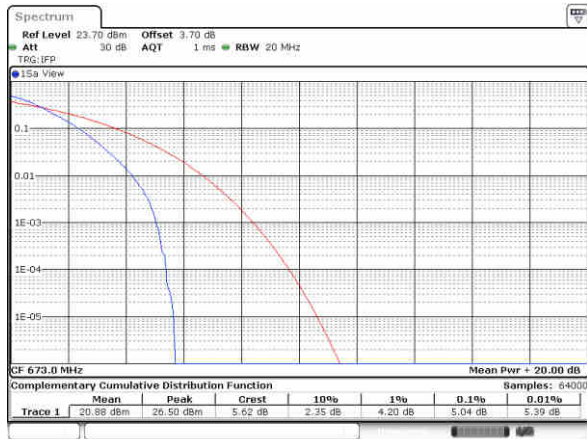
FR1 n71+66A / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

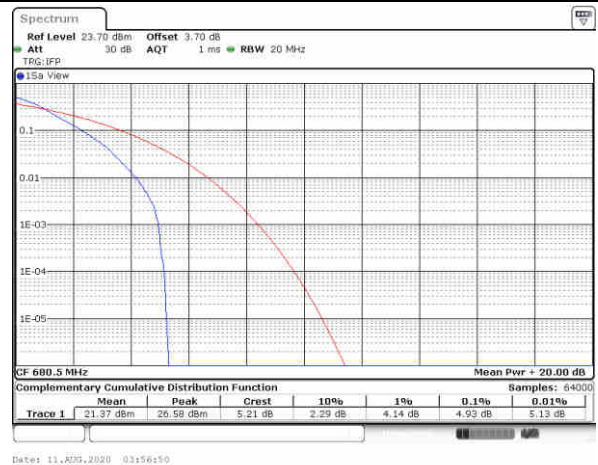
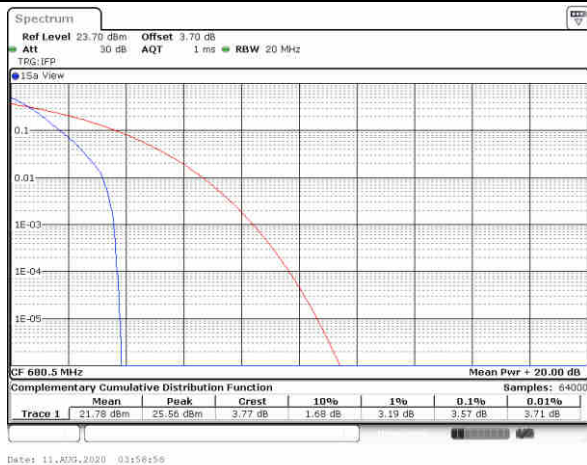
Lowest Channel / Full RB

Lowest Channel / Full RB



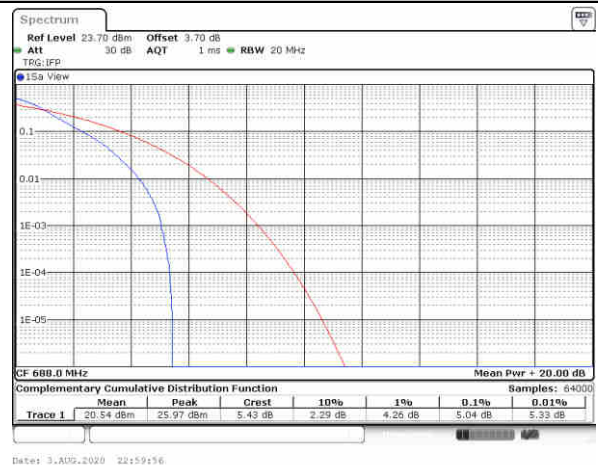
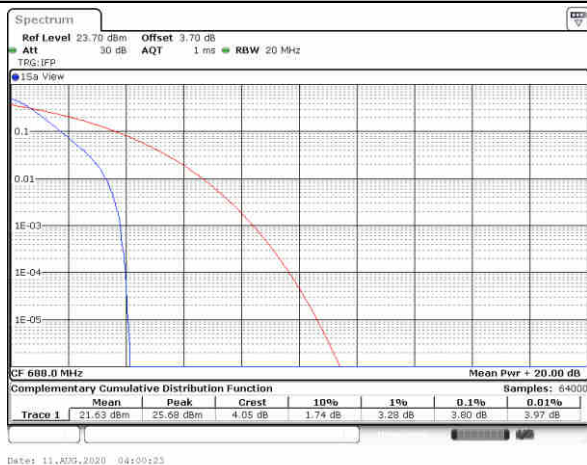
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB





26dB Bandwidth

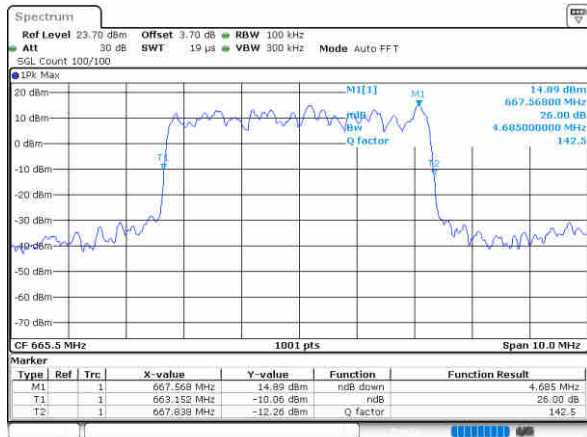
Mode	FR1 n71+66A : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	4.68	4.78	9.39	9.33	18.66	18.74		
Middle CH	5.04	4.76	9.55	9.21	18.58	18.66		
Highest CH	4.7	4.71	9.25	9.49	18.82	18.62		



FR1 n71+66A / 5MHz / DFT-S OFDM

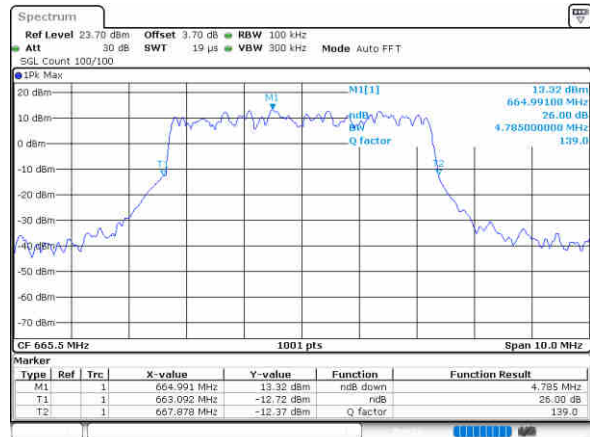
PI/2 BPSK

Lowest Channel

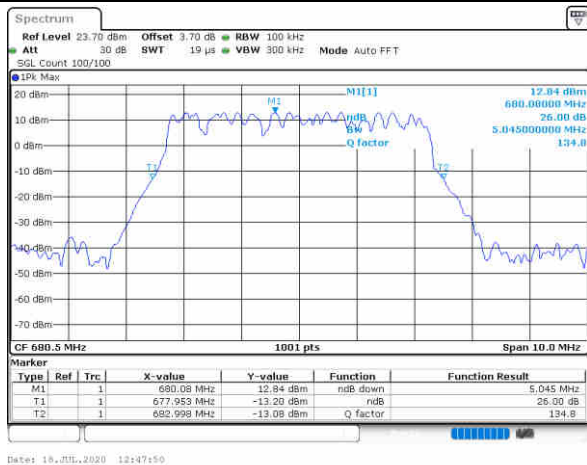


QPSK

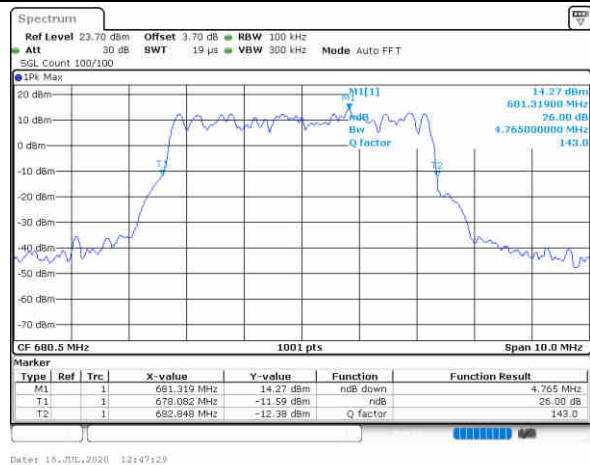
Lowest Channel



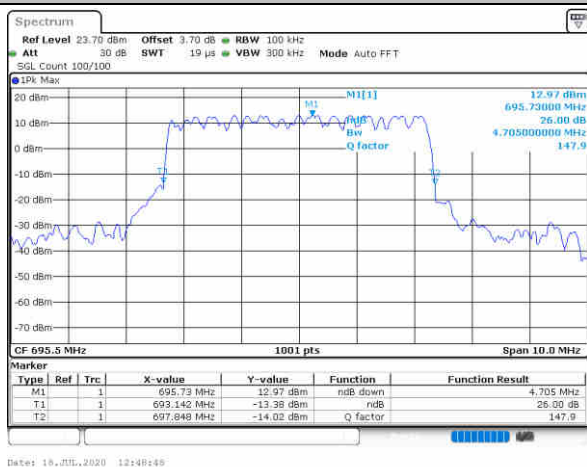
Middle Channel



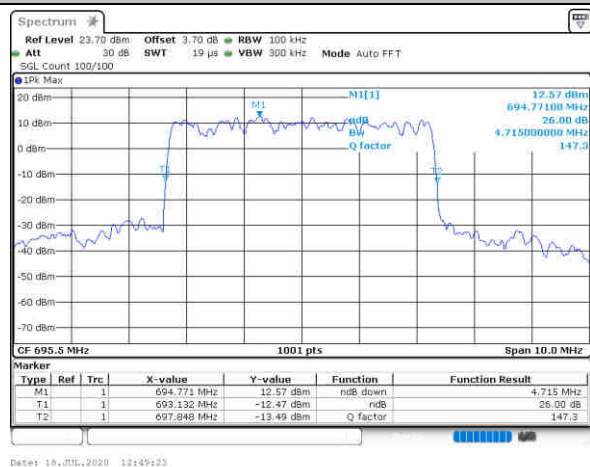
Middle Channel



Highest Channel



Highest Channel





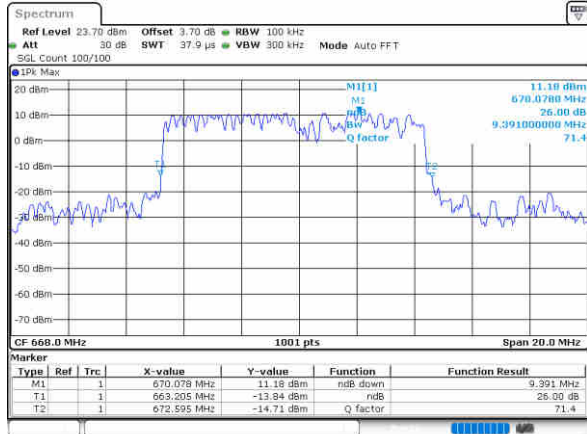
FR1 n71+66A / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

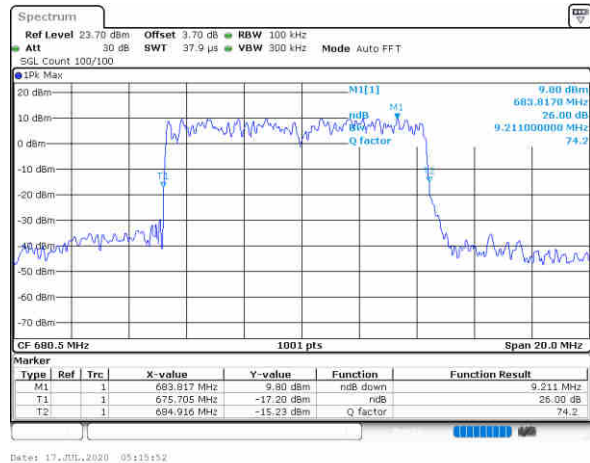
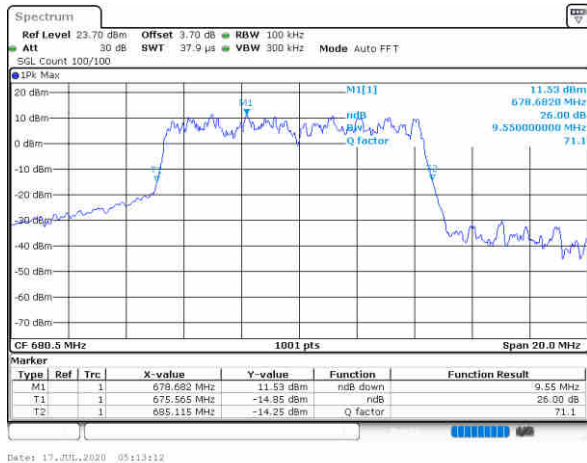
Lowest Channel

Lowest Channel



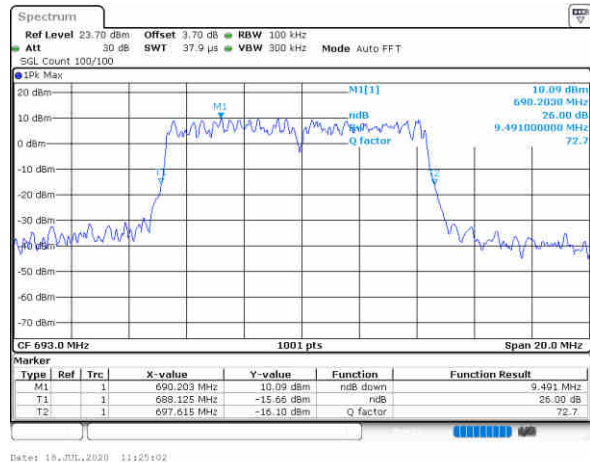
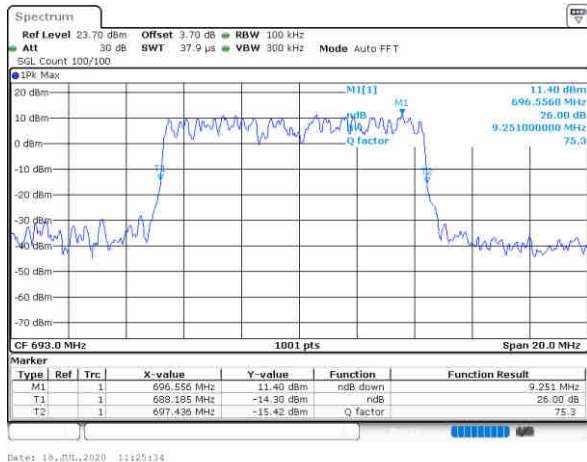
Middle Channel

Middle Channel



Highest Channel

Highest Channel

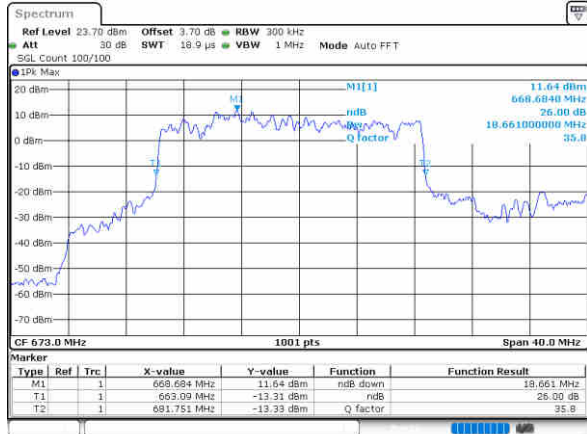




FR1 n71+66A / 20MHz / DFT-S OFDM

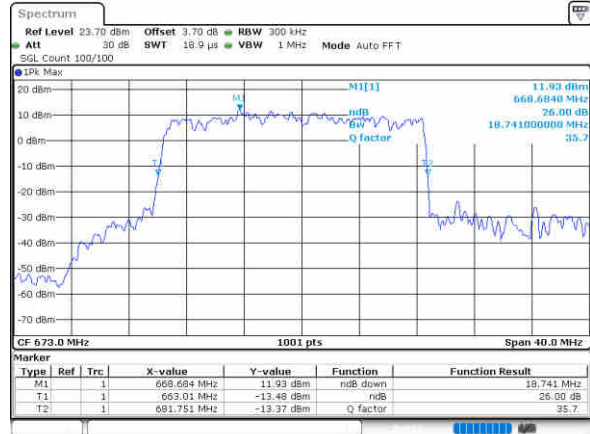
PI/2 BPSK

Lowest Channel

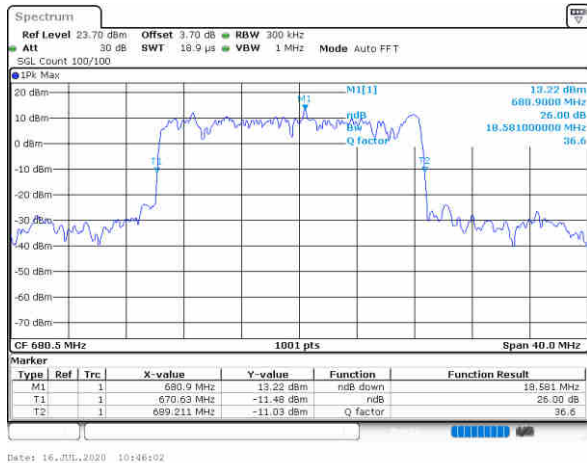


QPSK

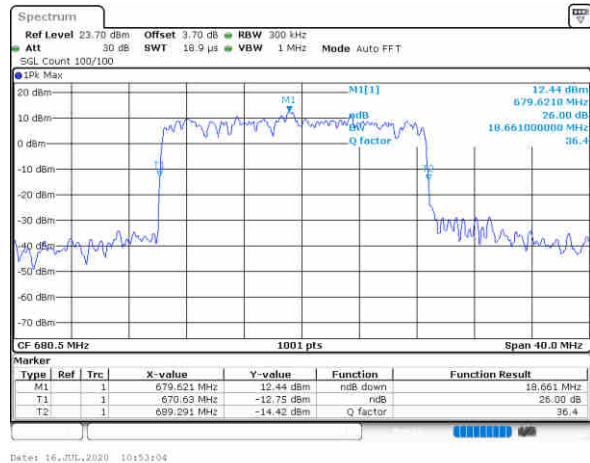
Lowest Channel



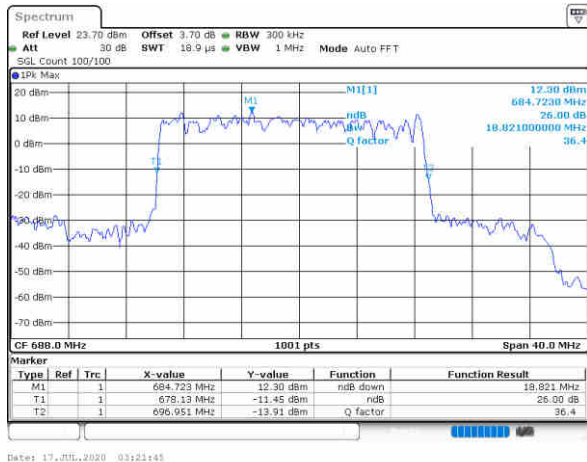
Middle Channel



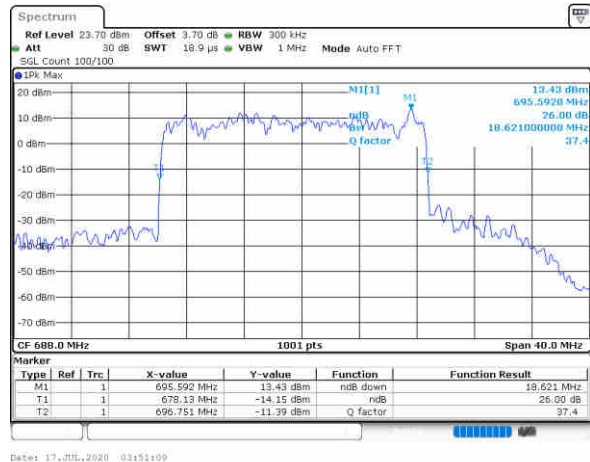
Middle Channel



Highest Channel



Highest Channel



**Occupied Bandwidth**

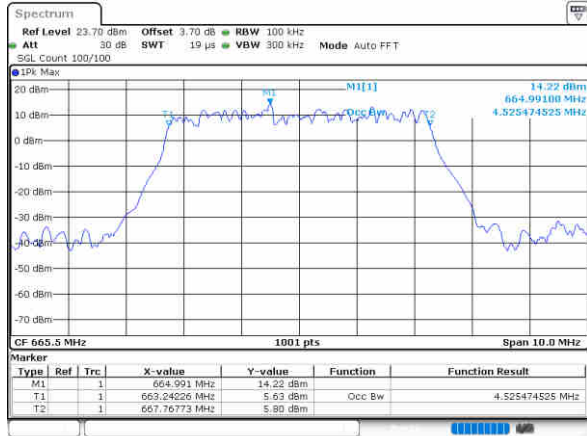
Mode	FR1 n71+66A : OB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	4.52	4.44	8.89	8.85	17.94	17.78		
Middle CH	4.43	4.42	8.93	8.85	17.86	17.98		
Highest CH	4.47	4.46	8.91	8.87	17.74	17.78		



FR1 n71+66A / 5MHz / DFT-S OFDM

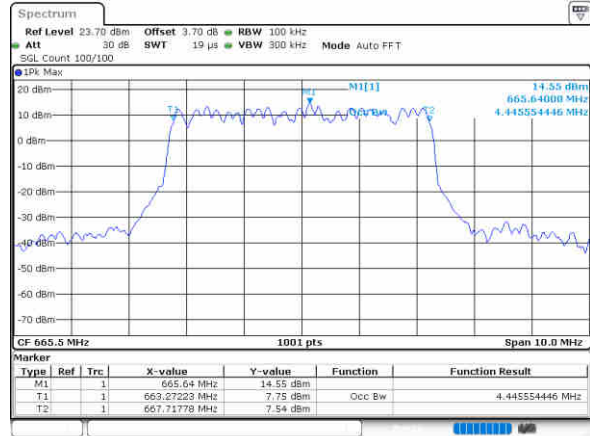
PI/2 BPSK

Lowest Channel

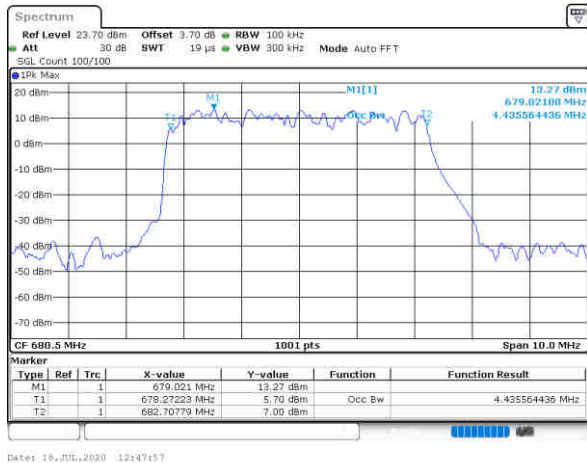


QPSK

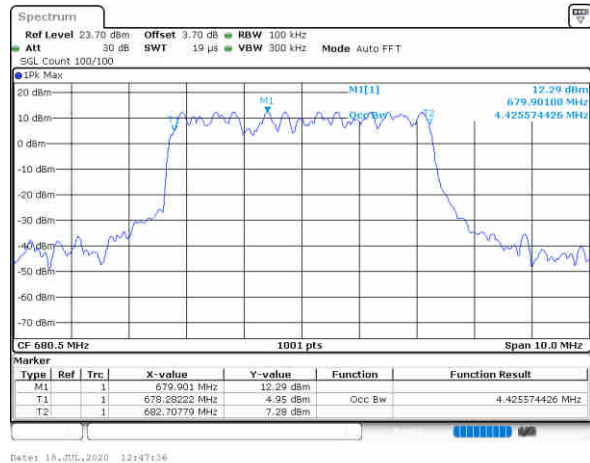
Lowest Channel



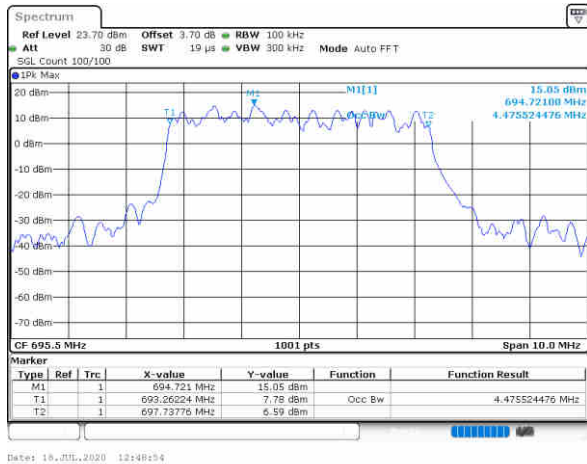
Middle Channel



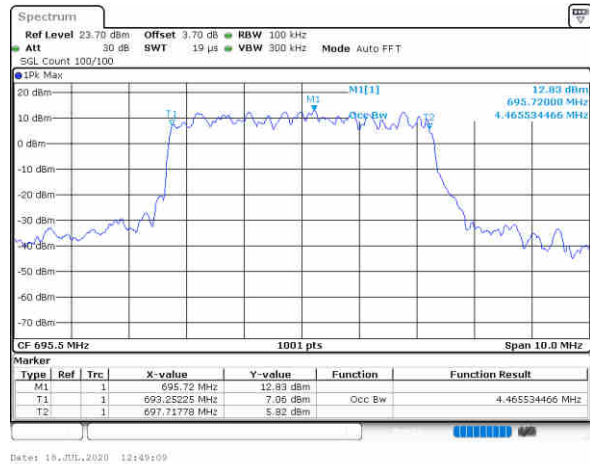
Middle Channel



Highest Channel



Highest Channel





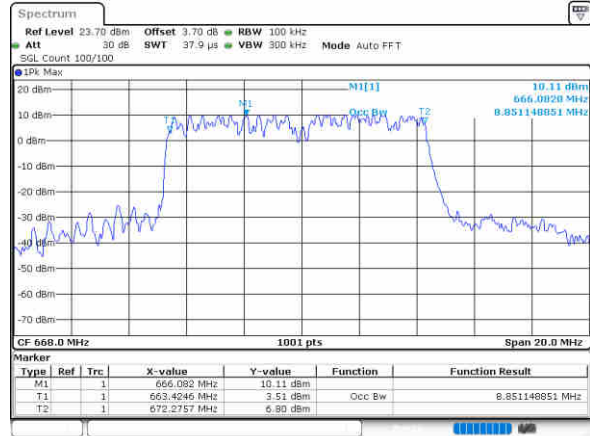
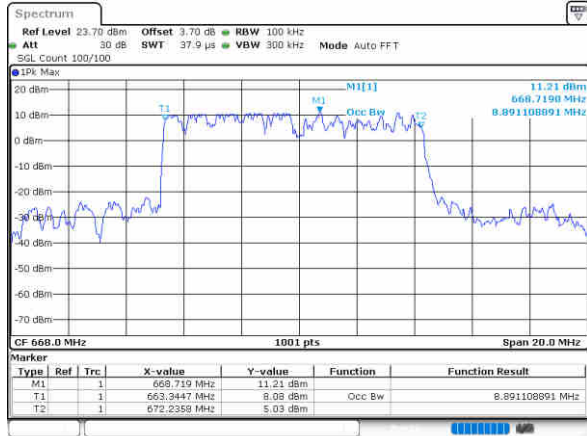
FR1 n71+66A / 10MHz / DFT-S OFDM

PI/2 BPSK

QPSK

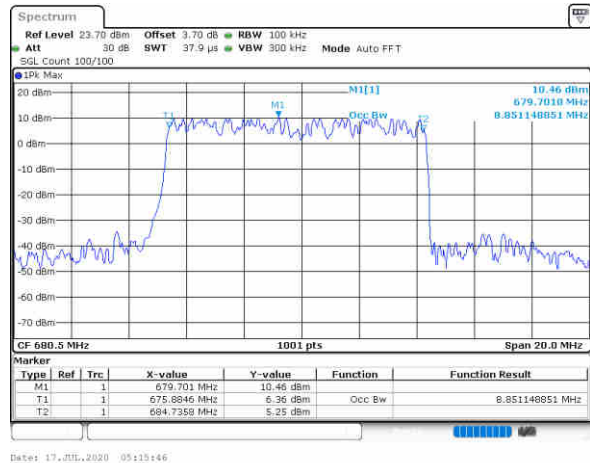
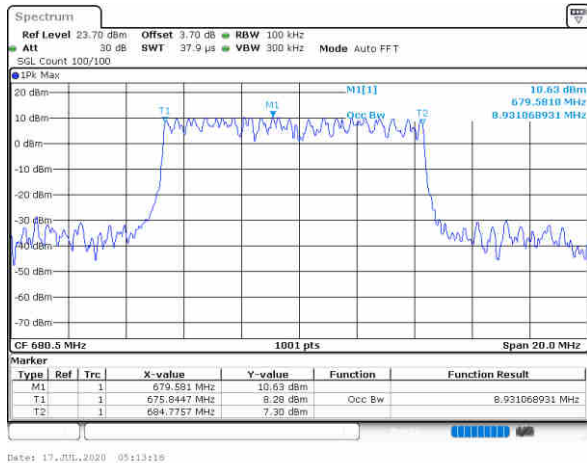
Lowest Channel

Lowest Channel



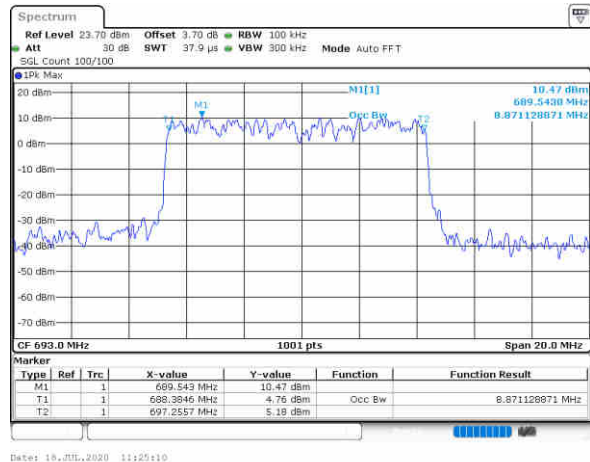
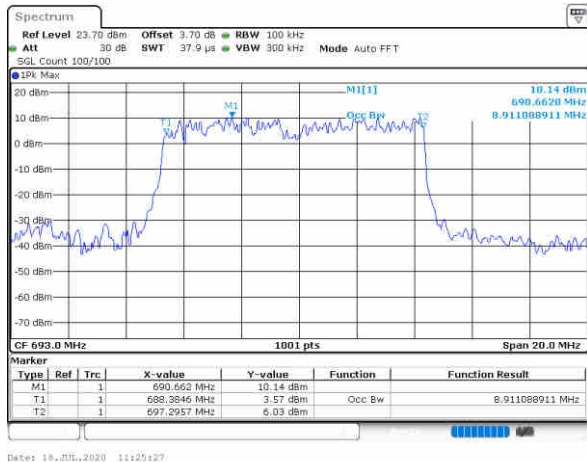
Middle Channel

Middle Channel



Highest Channel

Highest Channel





FR1 n71+66A / 20MHz / DFT-S OFDM

PI/2 BPSK

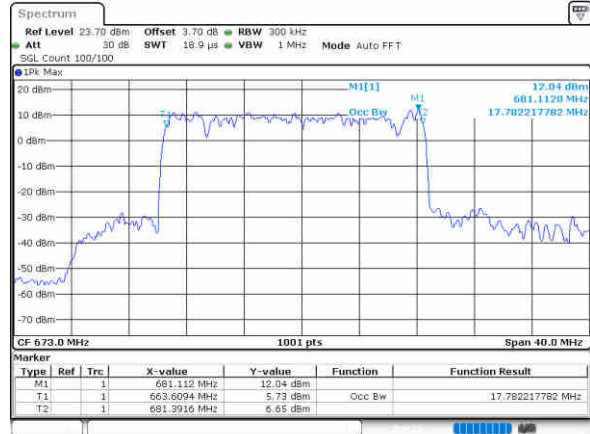
QPSK

Lowest Channel

Lowest Channel



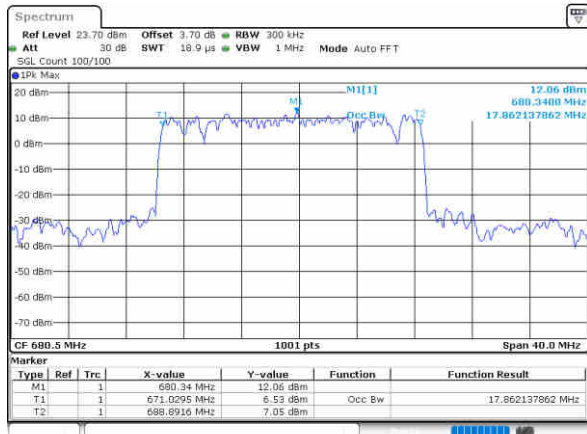
Date: 16_JUL_2020 10:55:56



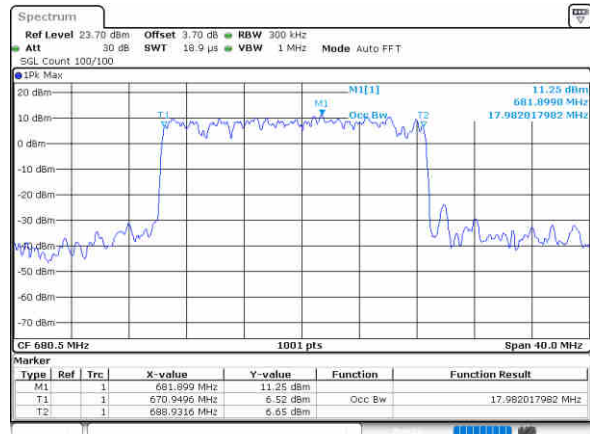
Date: 16_JUL_2020 10:57:05

Middle Channel

Middle Channel



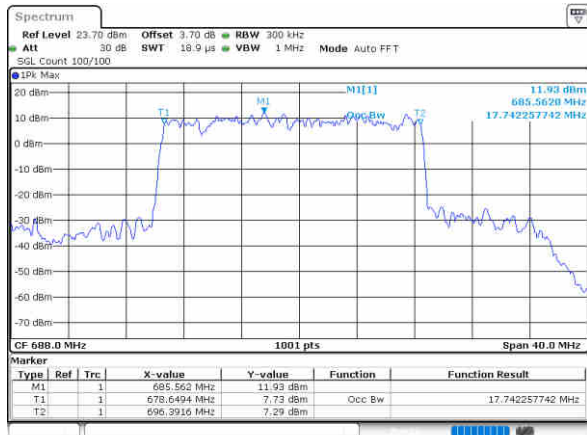
Date: 16_JUL_2020 10:45:56



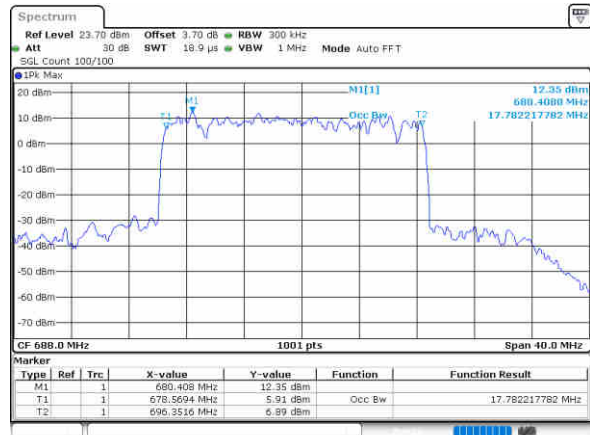
Date: 16_JUL_2020 10:52:57

Highest Channel

Highest Channel



Date: 17_JUL_2020 03:21:55



Date: 17_JUL_2020 03:51:02

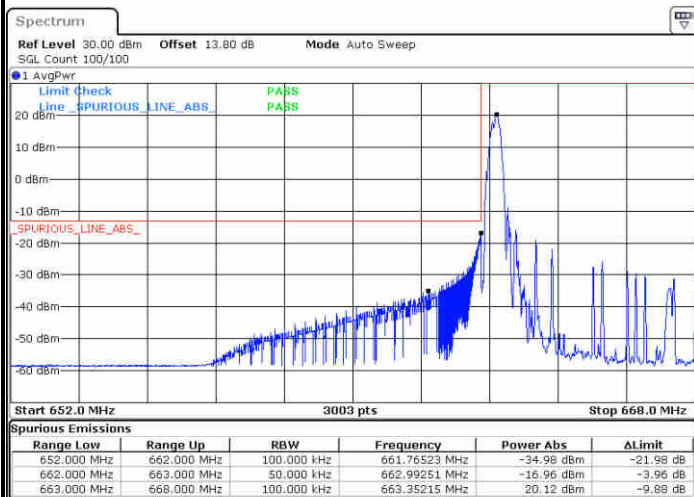


Conducted Band Edge

FR1 n71+66A / 5MHz / DFT-S OFDM BPSK

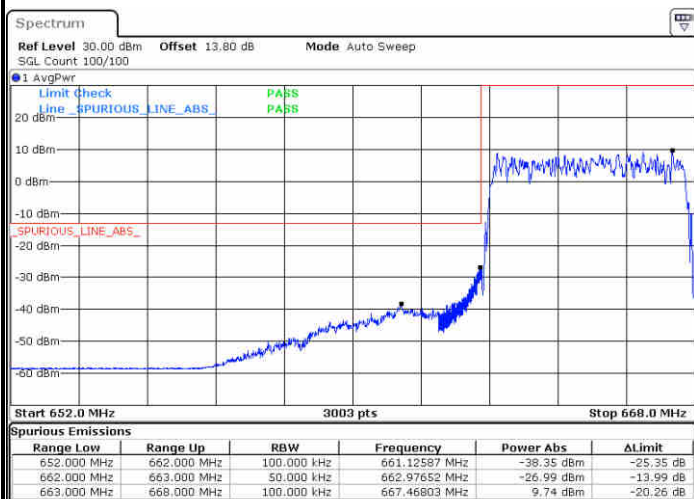
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

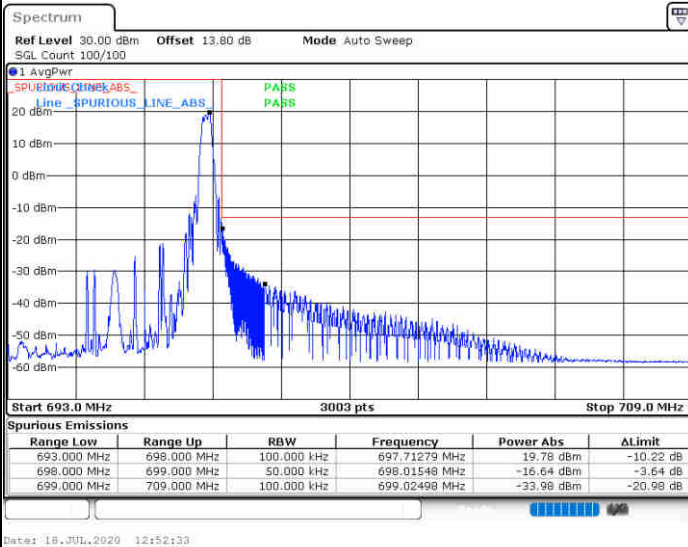




FR1 n71+66A / 5MHz / DFT-S OFDM BPSK

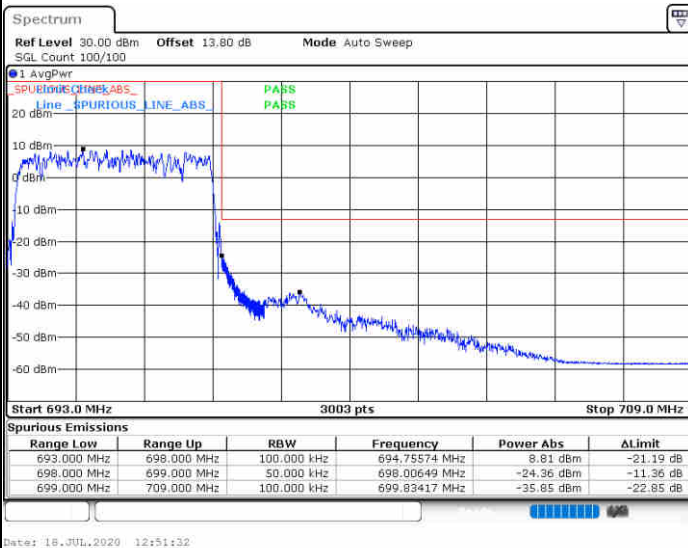
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

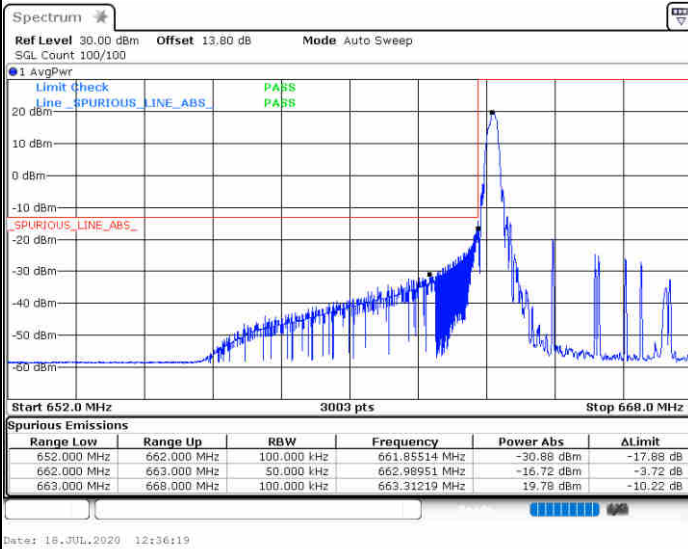




FR1 n71+66A / 5MHz / DFT-S OFDM QPSK

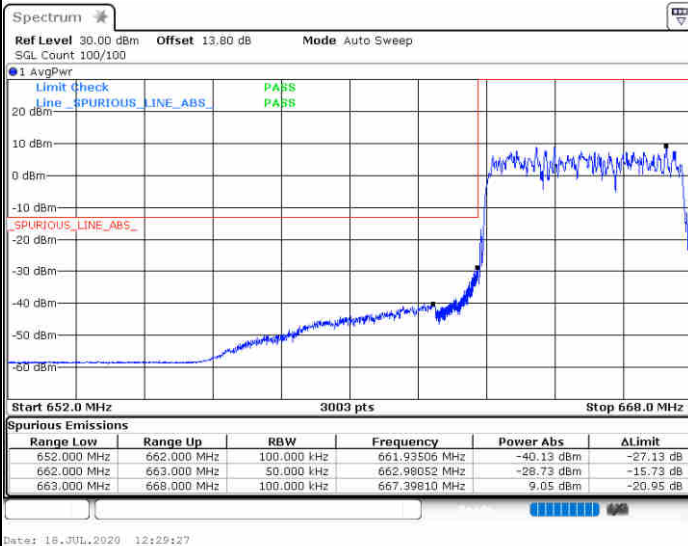
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

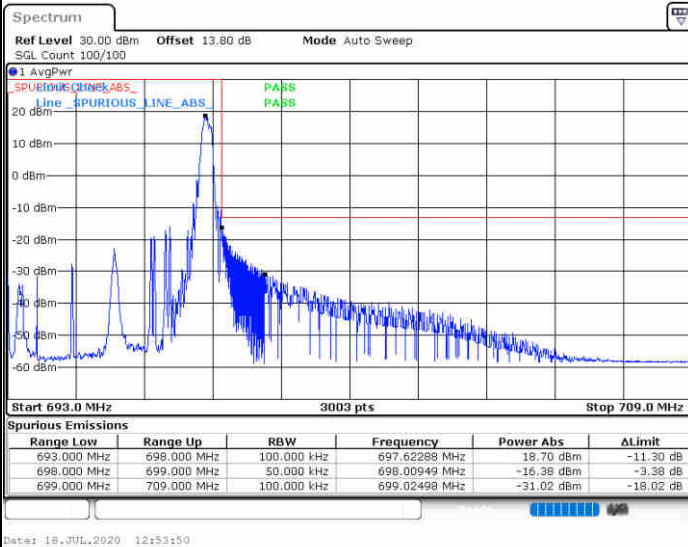




FR1 n71+66A / 5MHz / DFT-S OFDM QPSK

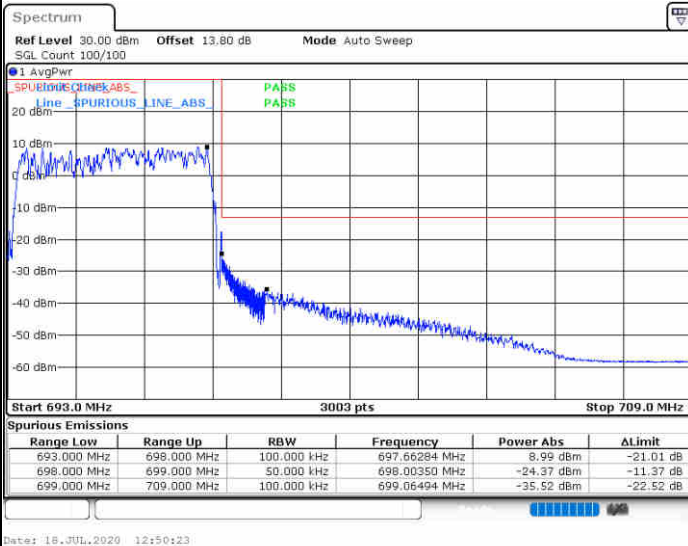
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

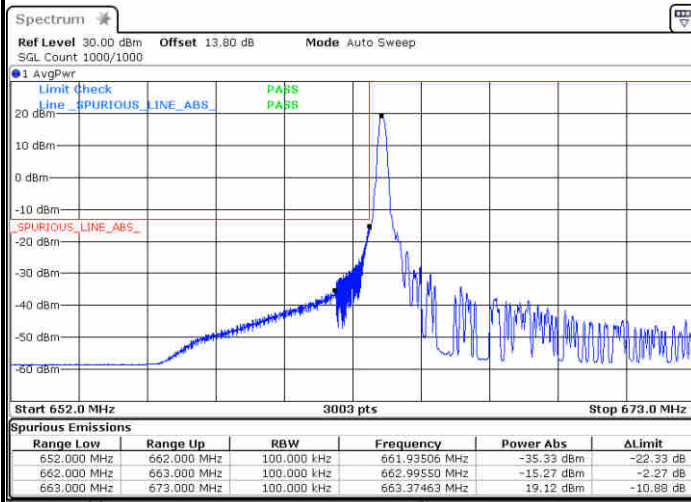
Channel Power < -13dBm Pass



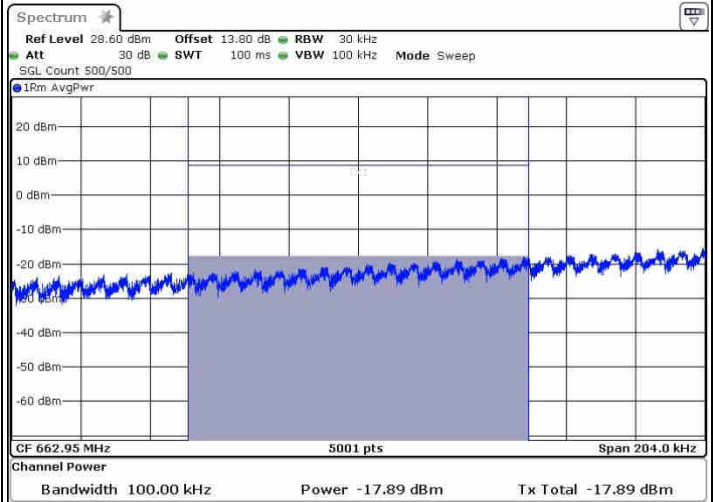


FR1 n71+66A / 10MHz / DFT-S OFDM BPSK

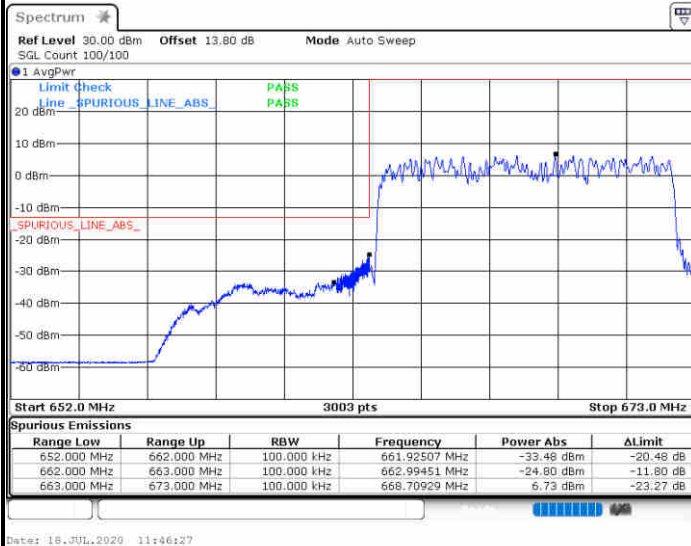
Lowest Band Edge / 1 RB



Channel Power < -13dBm Pass



Lowest Band Edge / Full RB



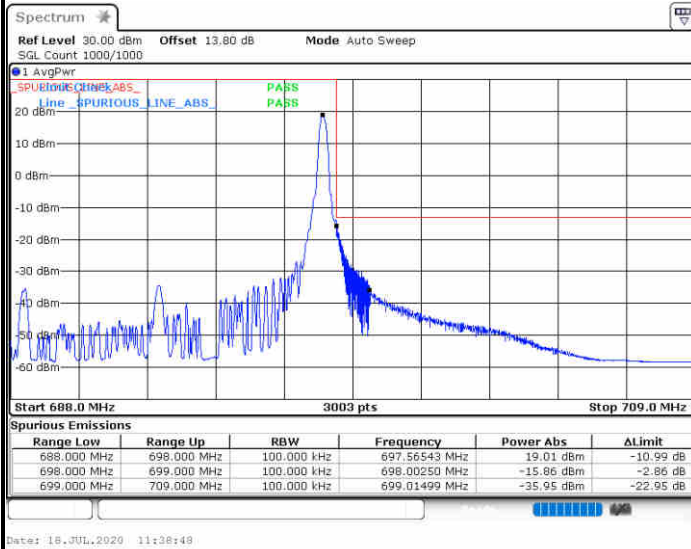
Channel Power < -13dBm Pass

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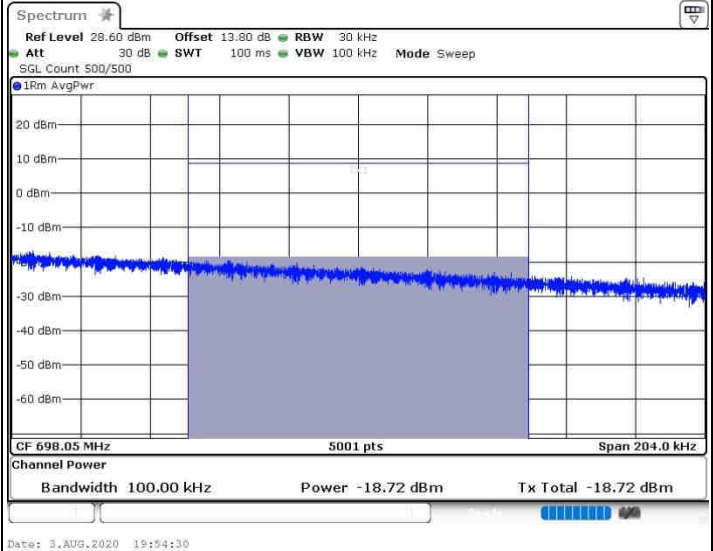


FR1 n71+66A / 10MHz / DFT-S OFDM BPSK

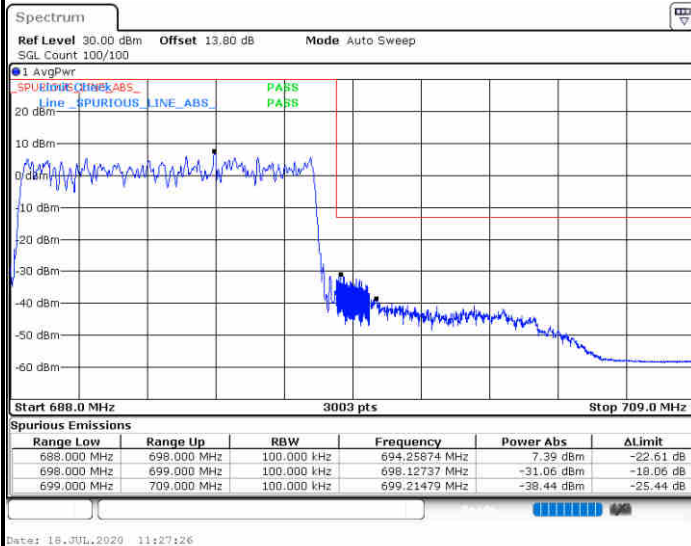
Highest Band Edge / 1 RB



Channel Power < -13dBm Pass



Highest Band Edge / Full RB



Channel Power < -13dBm Pass

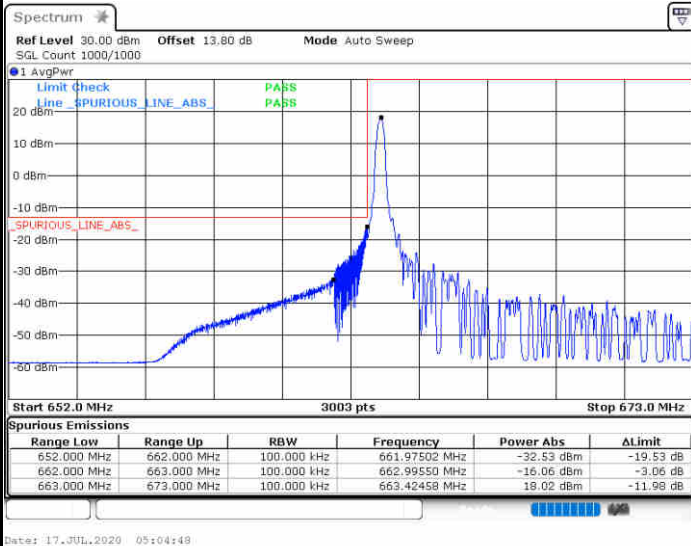
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FR1 n71+66A / 10MHz / DFT-S OFDM QPSK

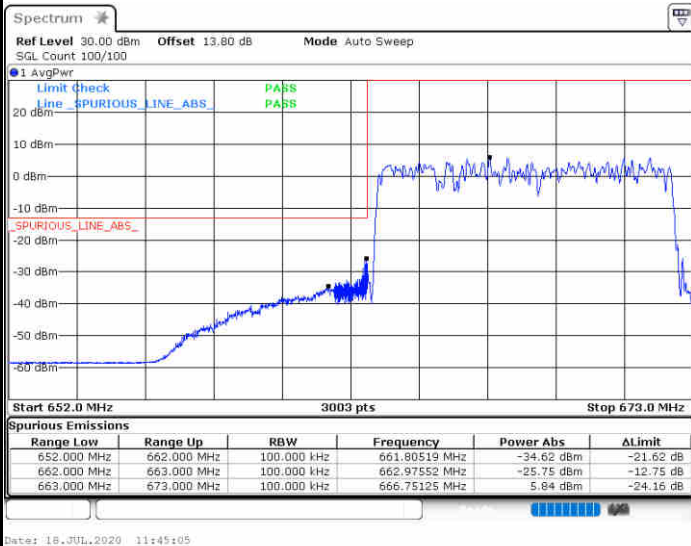
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

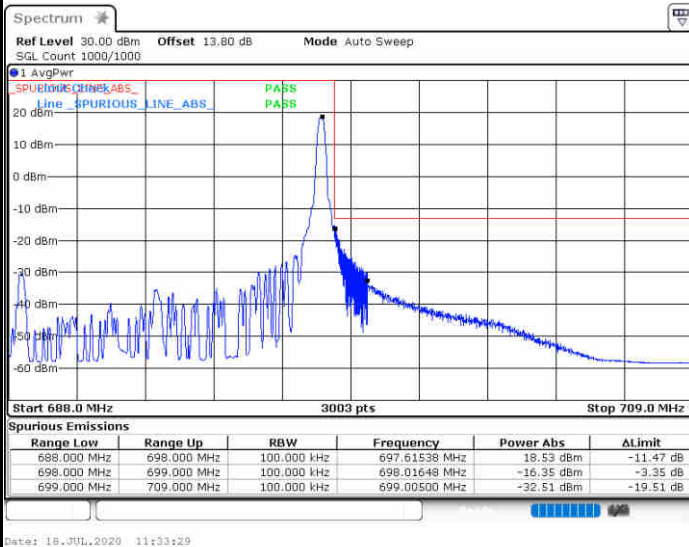




FR1 n71+66A / 10MHz / DFT-S OFDM QPSK

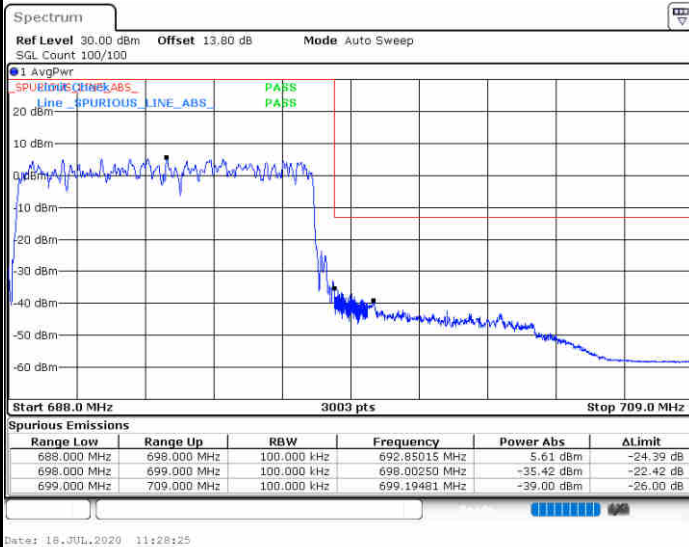
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

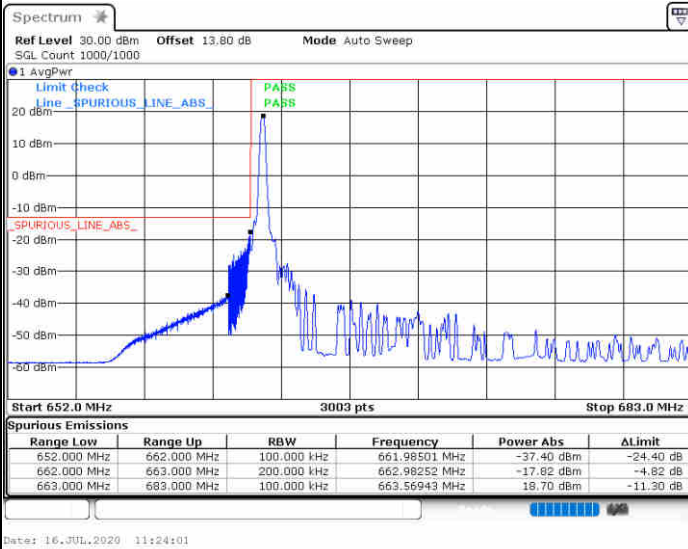




FR1 n71+66A / 20MHz / DFT-S OFDM BPSK

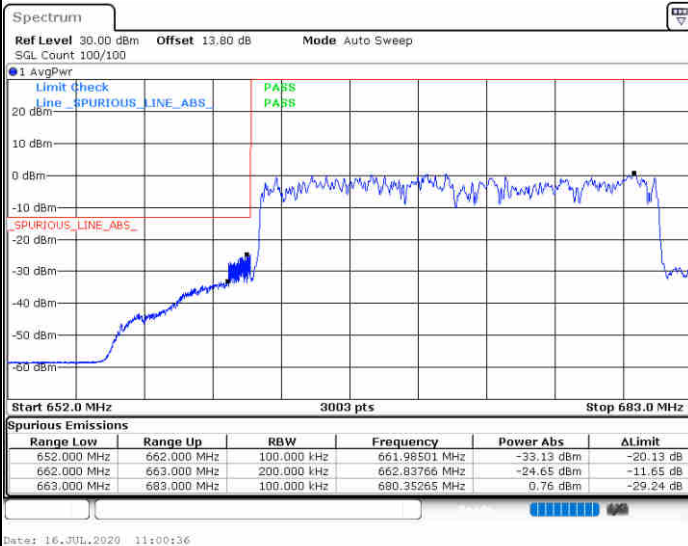
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

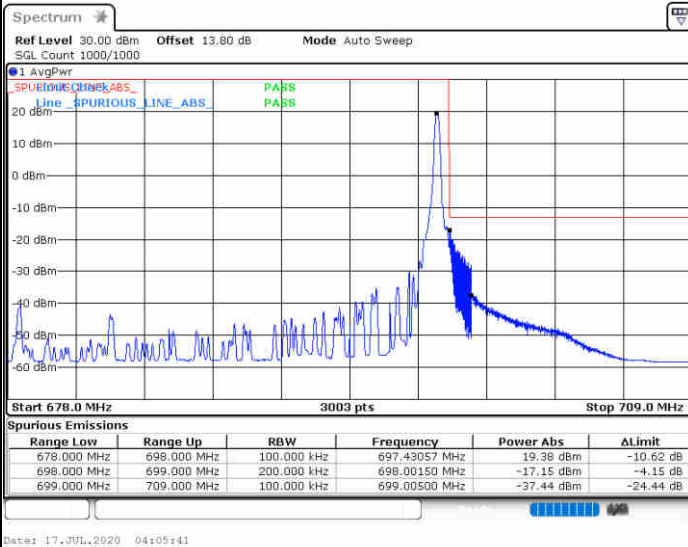




FR1 n71+66A / 20MHz / DFT-S OFDM BPSK

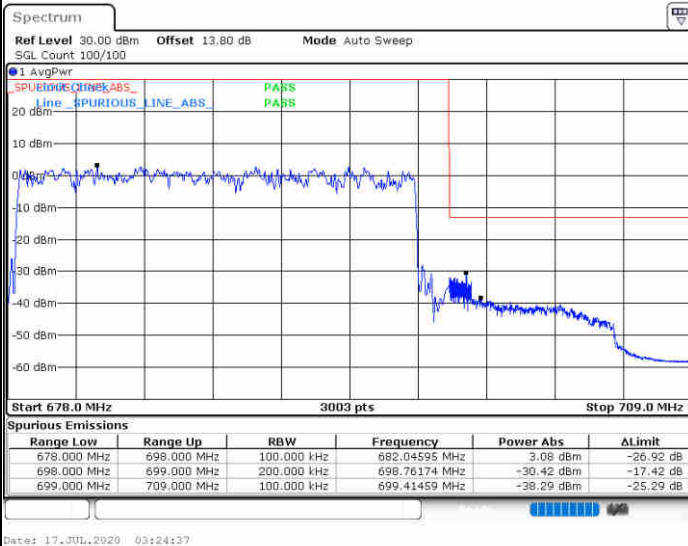
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass

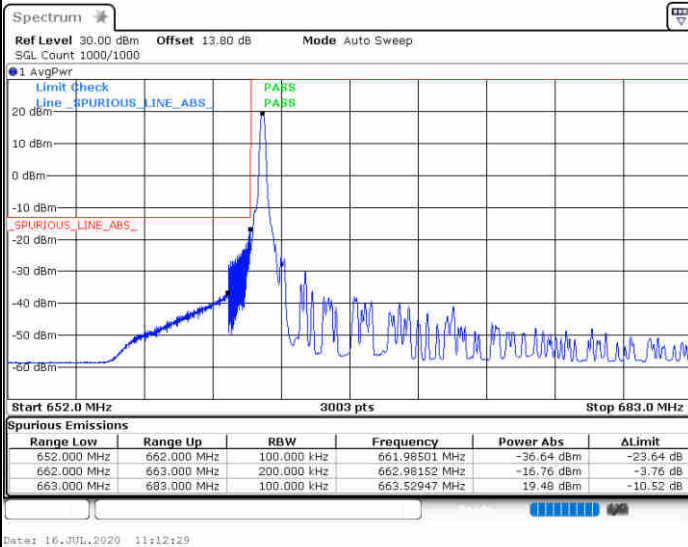




FR1 n71+66A / 20MHz / DFT-S OFDM QPSK

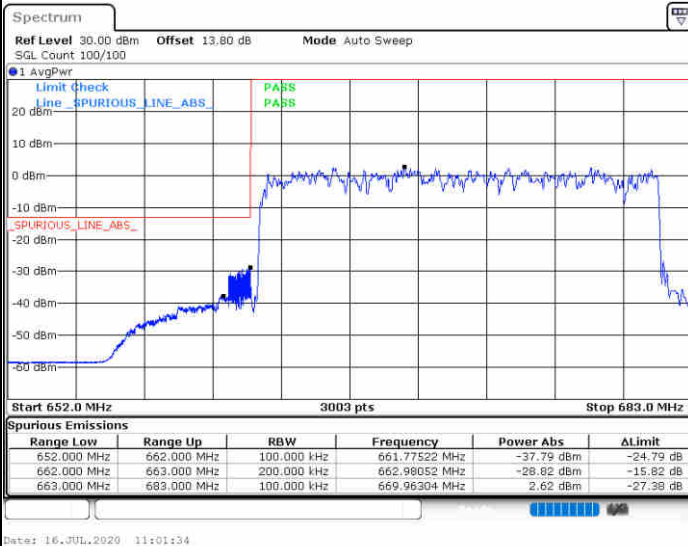
Lowest Band Edge / 1 RB

Channel Power < -13dBm Pass



Lowest Band Edge / Full RB

Channel Power < -13dBm Pass

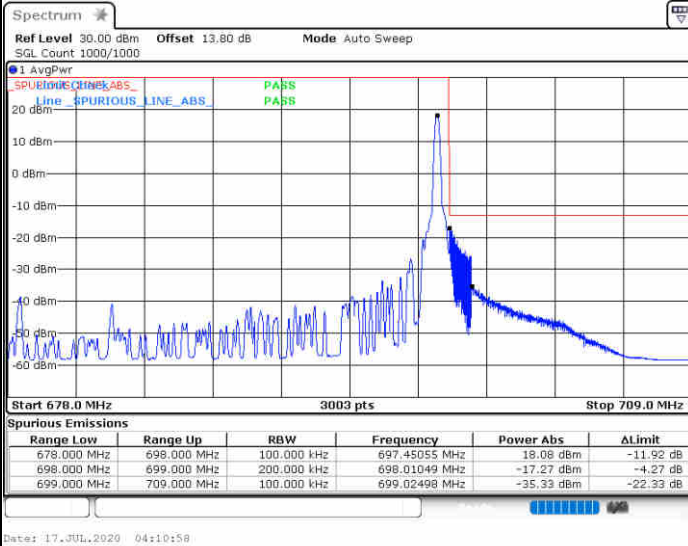




FR1 n71+66A / 20MHz / DFT-S OFDM QPSK

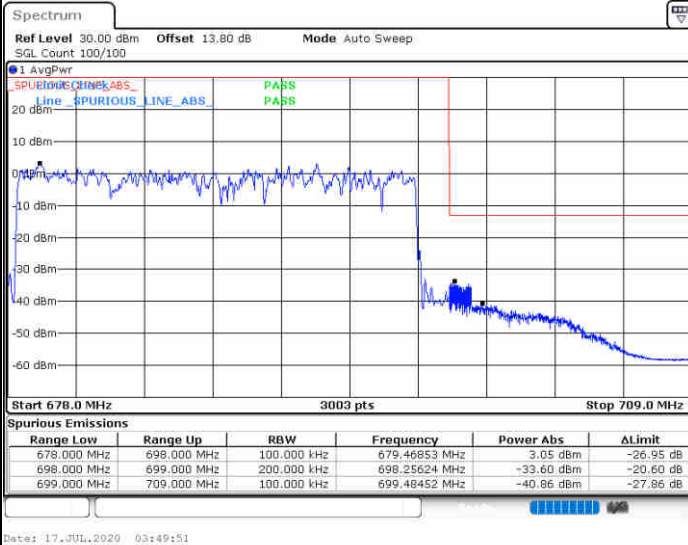
Highest Band Edge / 1 RB

Channel Power < -13dBm Pass



Highest Band Edge / Full RB

Channel Power < -13dBm Pass





Conducted Spurious Emission

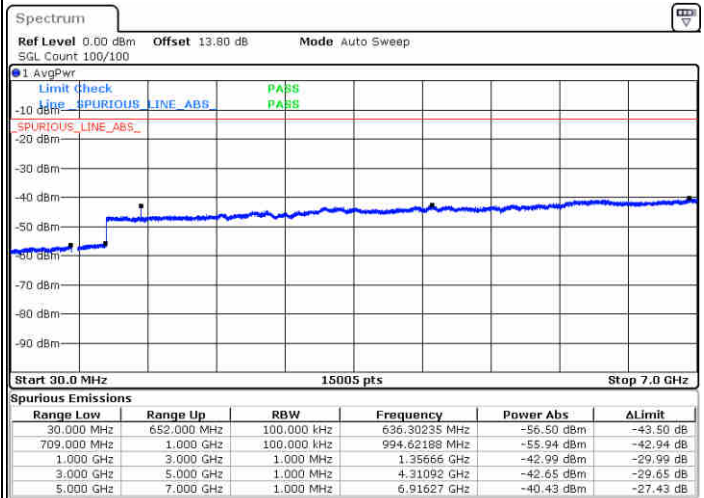
FR1 n71+66A / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



Date: 18.JUL.2020 12:41:52

Middle Channel / 1RB



Date: 18.JUL.2020 12:43:35

Highest Channel / 1RB

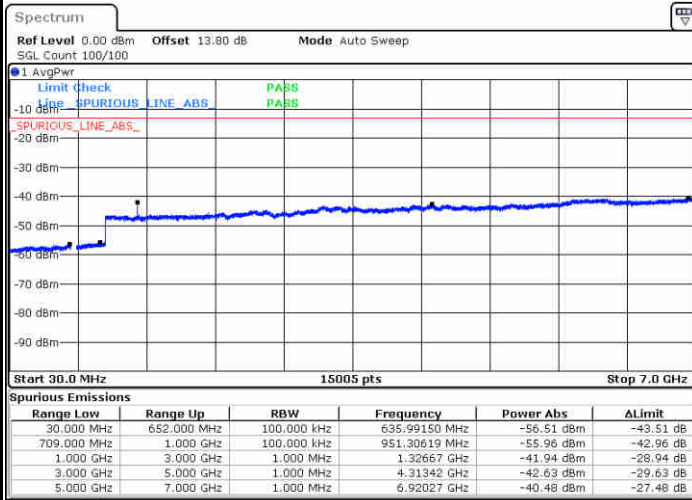


Date: 18.JUL.2020 12:57:47



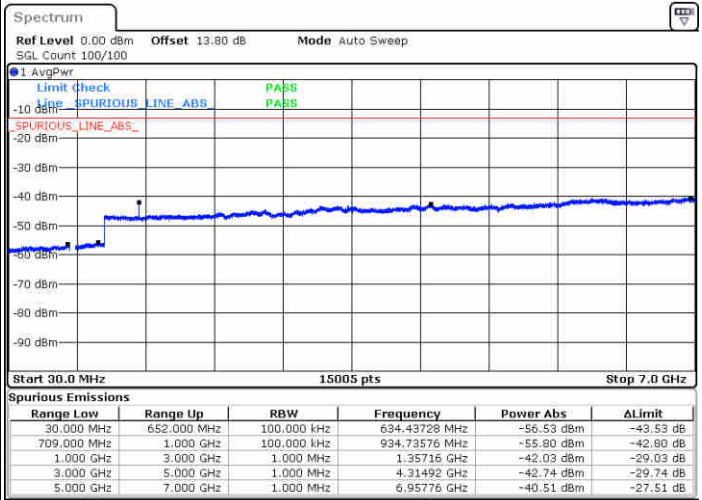
FR1 n71+66A / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



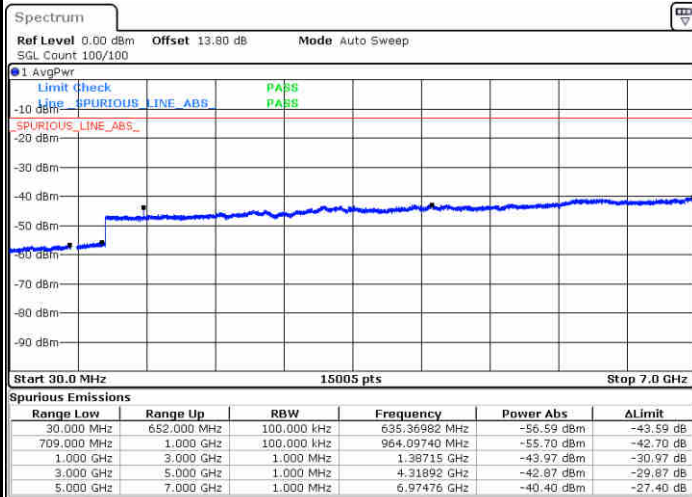
Date: 18.JUL.2020 12:38:07

Middle Channel / 1RB



Date: 18.JUL.2020 12:46:48

Highest Channel / 1RB

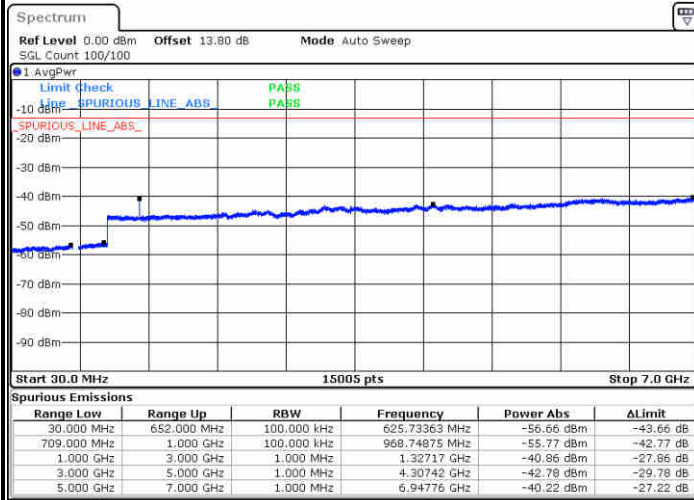


Date: 18.JUL.2020 12:55:13



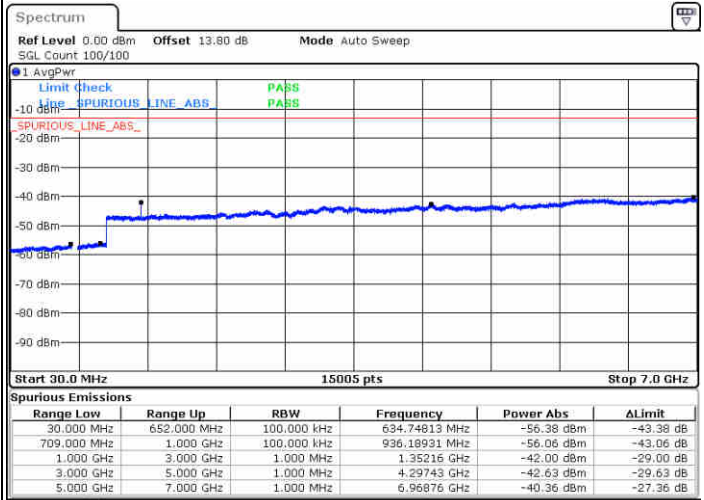
FR1 n71+66A / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



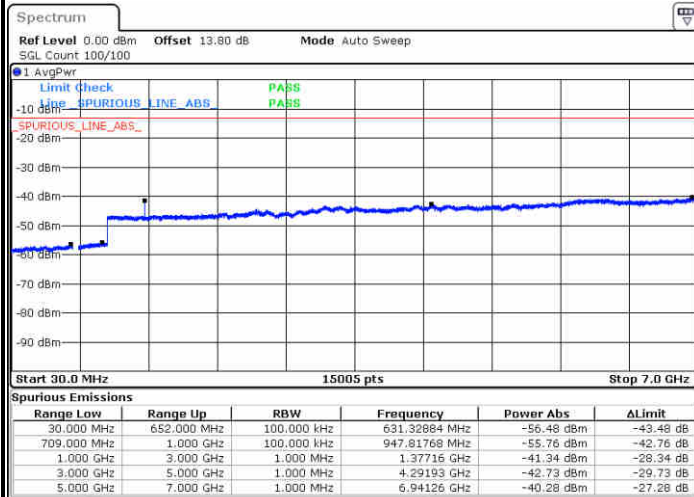
Date: 17.JUL.2020 05:07:50

Middle Channel / 1RB



Date: 17.JUL.2020 05:22:55

Highest Channel / 1RB

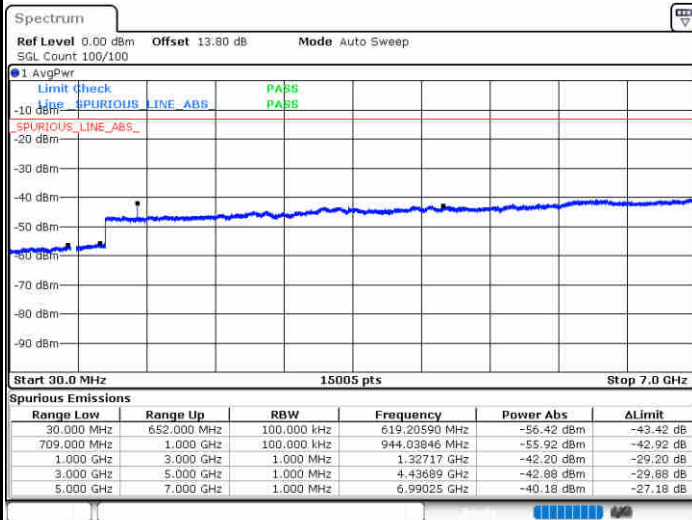


Date: 18.JUL.2020 11:46:12



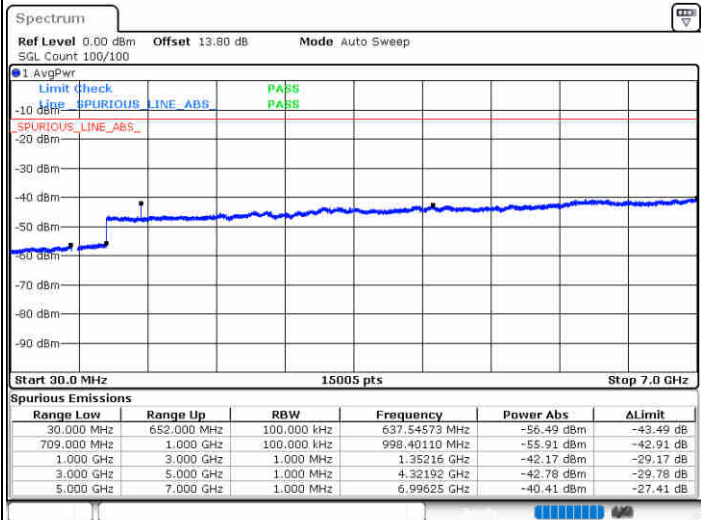
FR1 n71+66A / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



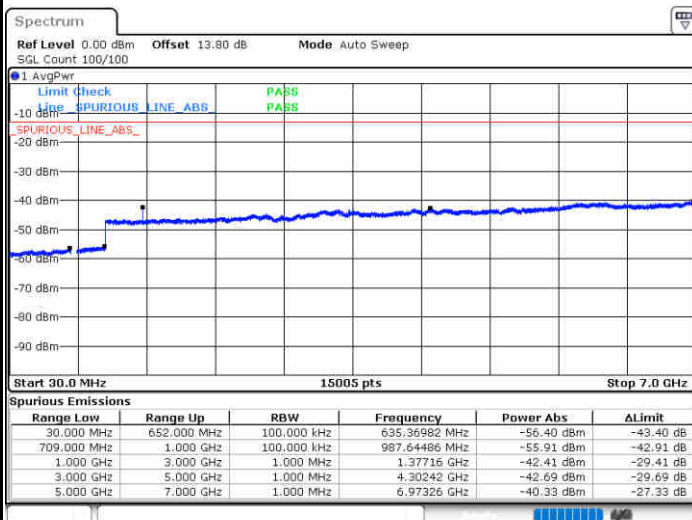
Date: 17.JUL.2020 05:06:24

Middle Channel / 1RB



Date: 17.JUL.2020 05:17:51

Highest Channel / 1RB

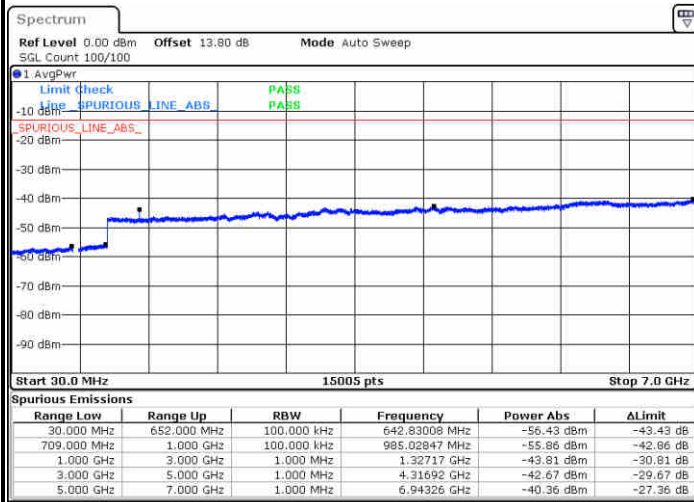


Date: 18.JUL.2020 11:43:06



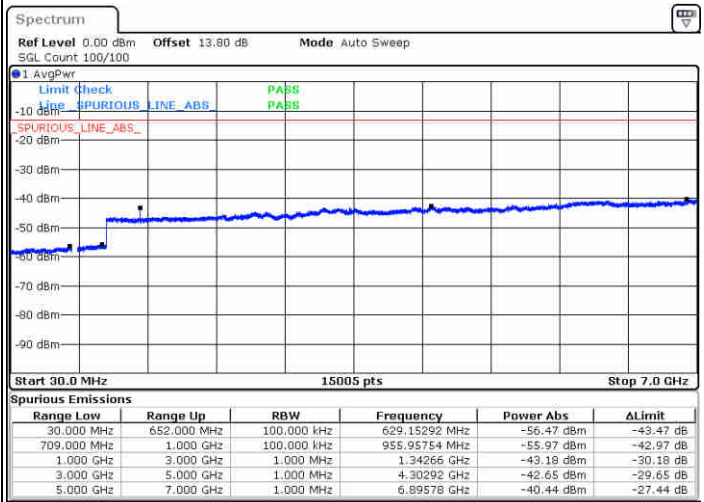
FR1 n71+66A / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB



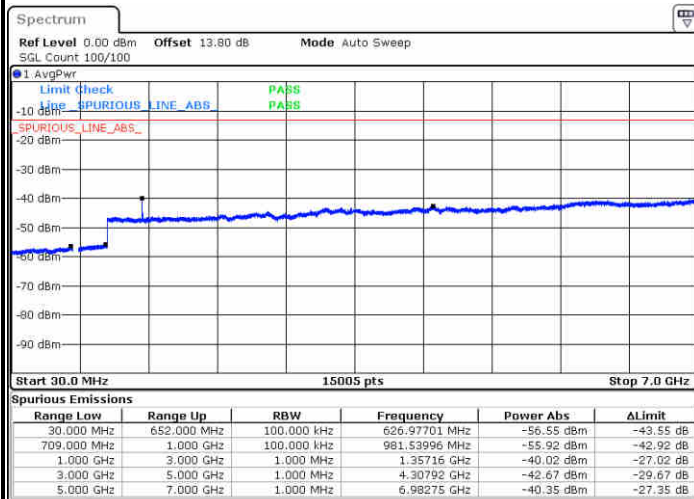
Date: 16.JUL.2020 11:32:47

Middle Channel / 1RB



Date: 16.JUL.2020 10:47:40

Highest Channel / 1RB

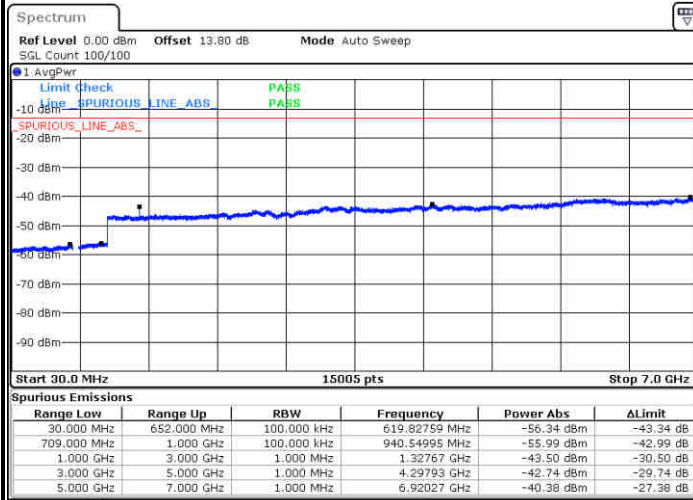


Date: 17.JUL.2020 03:25:50



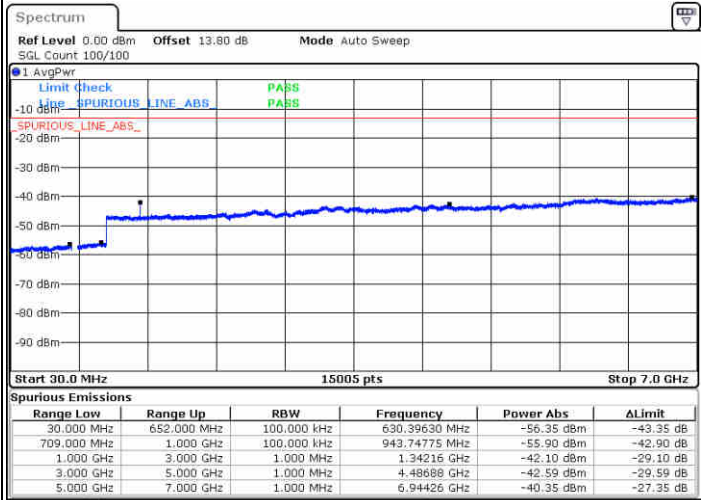
FR1 n71+66A / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB



Date: 16.JUL.2020 11:34:14

Middle Channel / 1RB



Date: 16.JUL.2020 10:49:38

Highest Channel / 1RB



Date: 17.JUL.2020 03:43:31

**Frequency Stability**

Test Conditions		NR n71+66A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0015	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0013	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0013	



SA

Peak-to-Average Ratio

Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	PI/2 BPSK	QPSK	QPSK	Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.46	4.58	5.97	5.22	PASS
Middle CH	4.78	4.64	5.65	6.29	
Highest CH	4.38	4.14	6.17	5.77	



FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

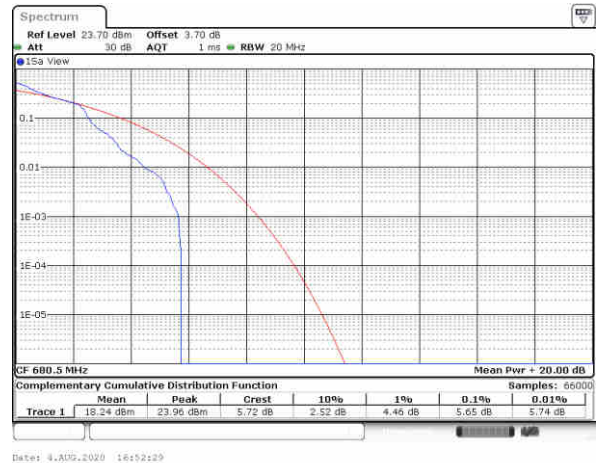
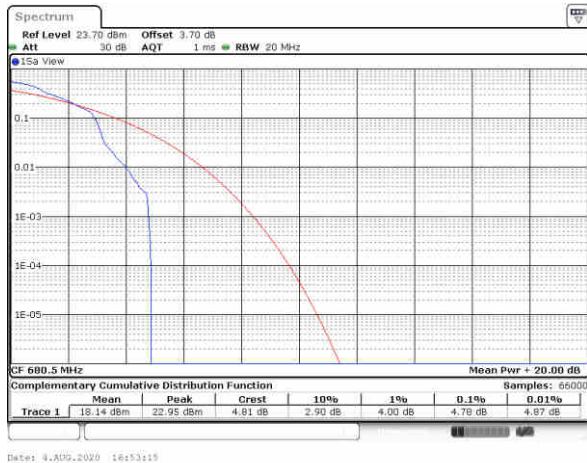
Lowest Channel / 1RB

Lowest Channel / 1RB



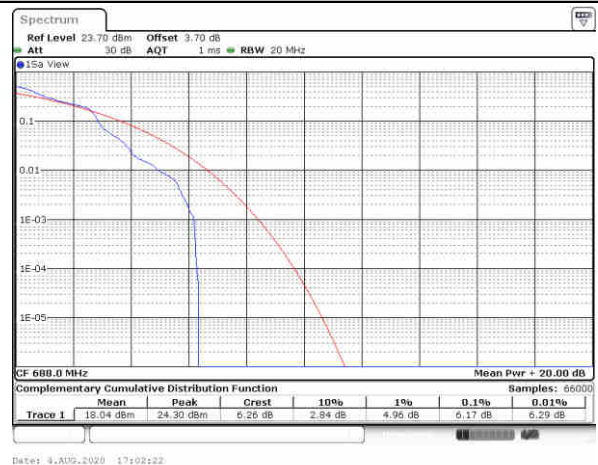
Middle Channel / 1 RB

Middle Channel / 1 RB



Highest Channel / 1 RB

Highest Channel / 1 RB





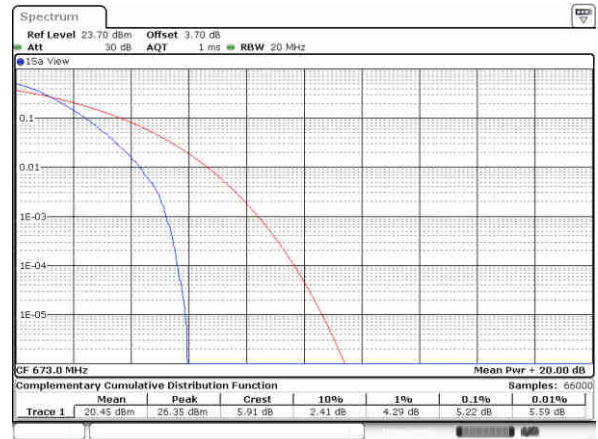
FR1 n71 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

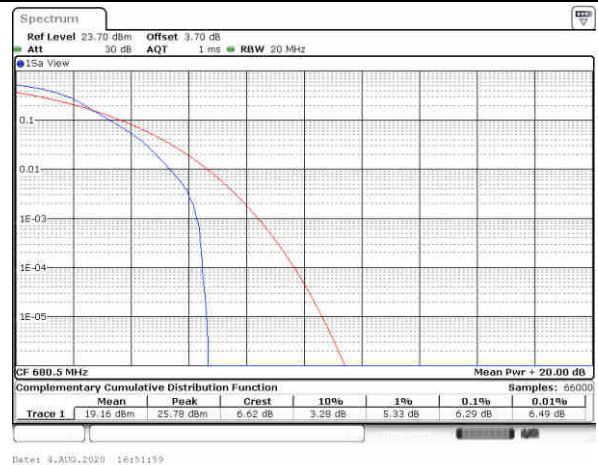
Lowest Channel / Full RB

Lowest Channel / Full RB



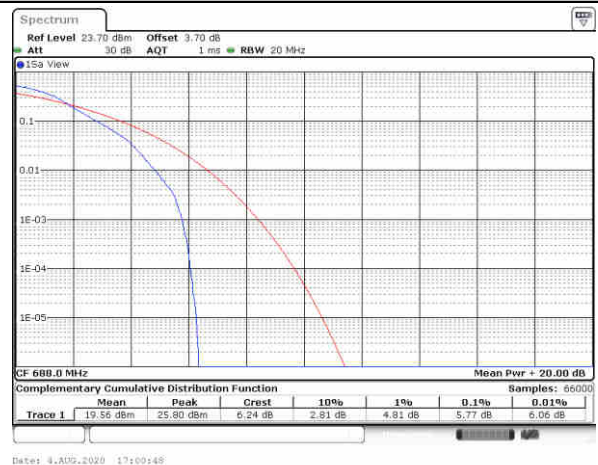
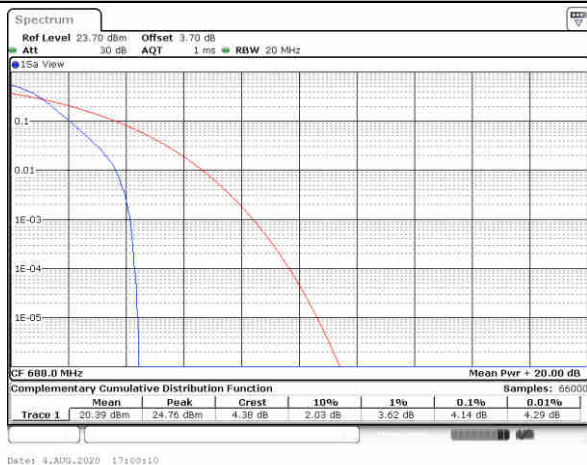
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB





26dB Bandwidth

Mode	FR1 n71 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz	5MHz	10MHz	10MHz	20MHz	20MHz		
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK		
Lowest CH	5	5.16	9.43	9.49	18.66	18.62		
Middle CH	4.69	4.77	9.85	9.39	18.62	18.78		
Highest CH	4.87	4.7	9.31	9.43	18.62	18.58		



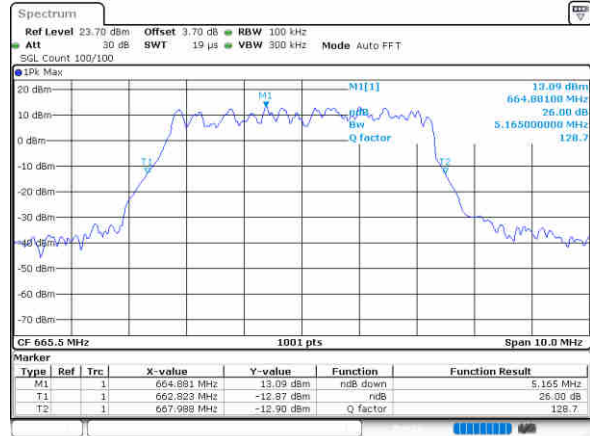
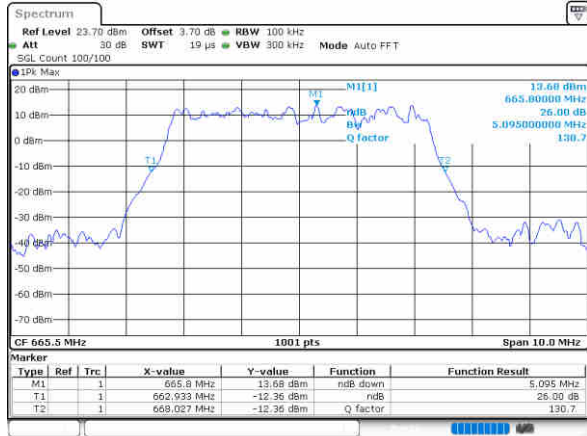
FR1 n71 / 5MHz / DFT-S OFDM

PI/2 BPSK

QPSK

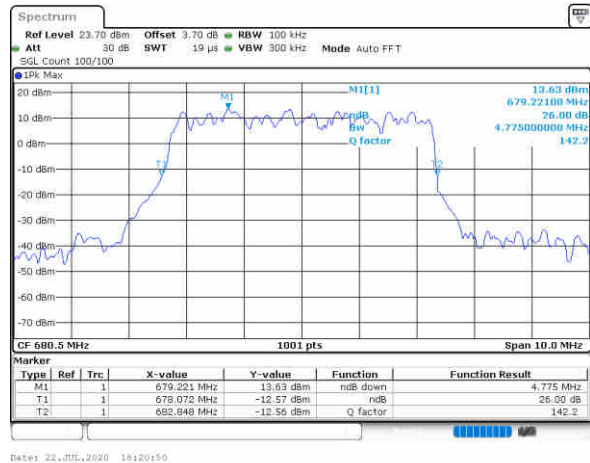
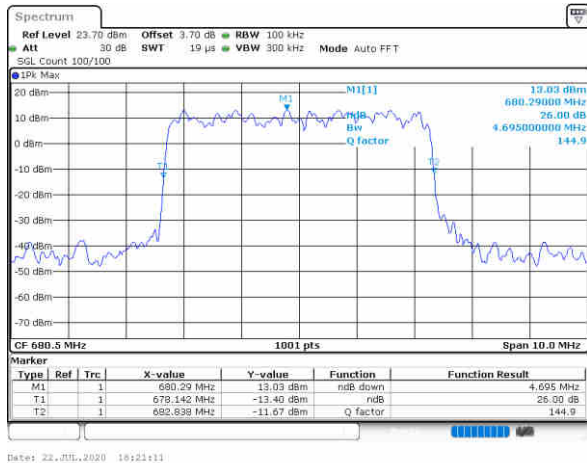
Lowest Channel

Lowest Channel



Middle Channel

Middle Channel



Highest Channel

Highest Channel

