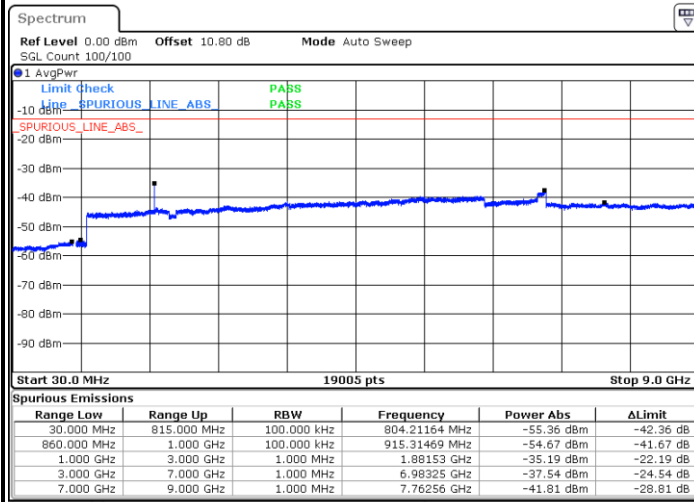




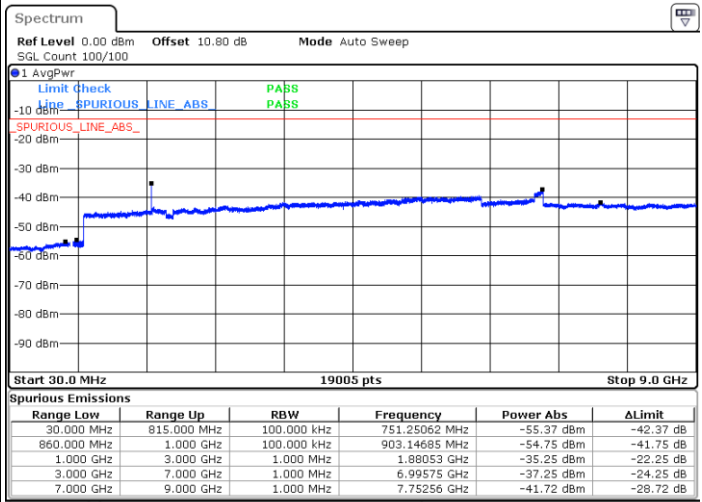
FR1 n5 / 20MHz / QPSK / DFT-S OFDM

Lowest Channel / 1RB1



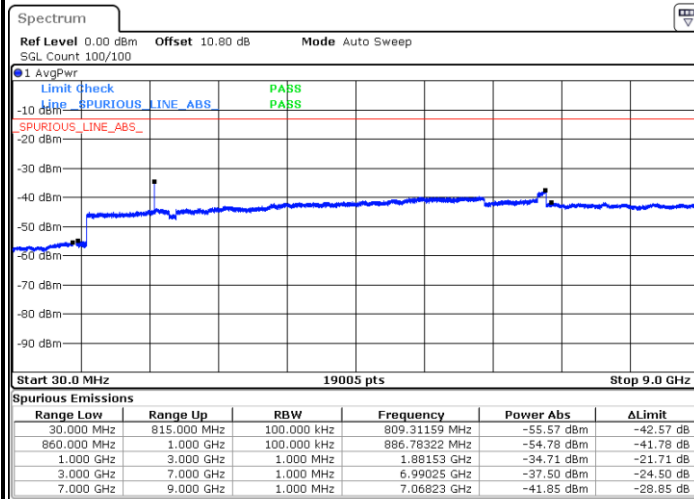
Date: 10.MAR.2020 22:27:45

Middle Channel / 1RB1



Date: 10.MAR.2020 22:29:55

Highest Channel / 1RB1

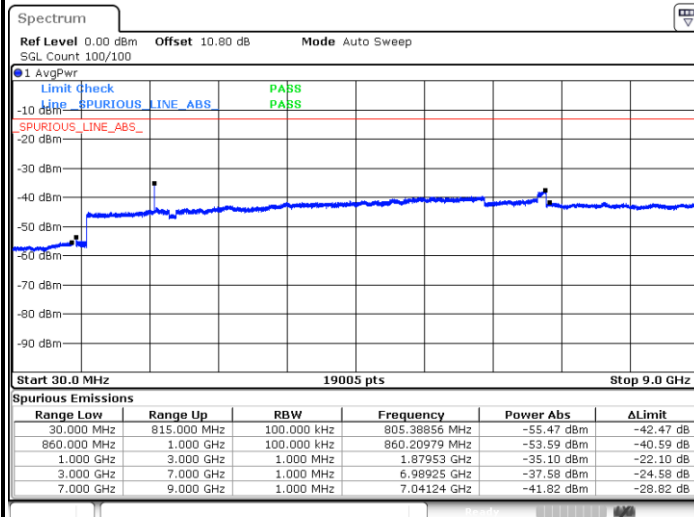


Date: 10.MAR.2020 22:34:56



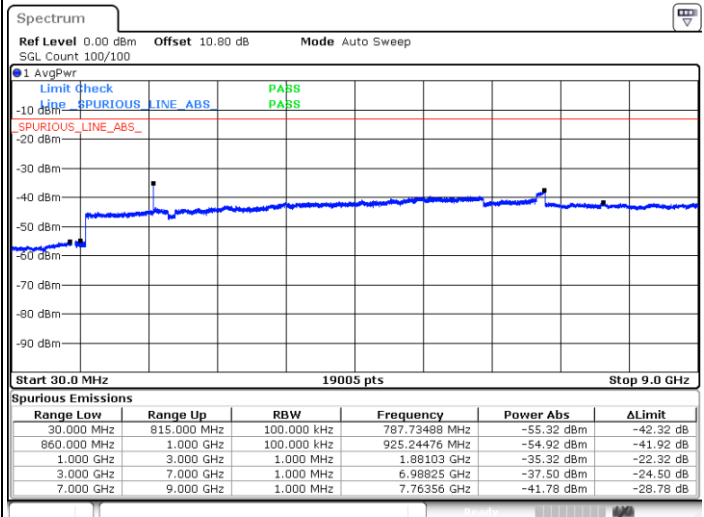
FR1 n5 / 20MHz / 16QAM / DFT-S OFDM

Lowest Channel / 1RB1



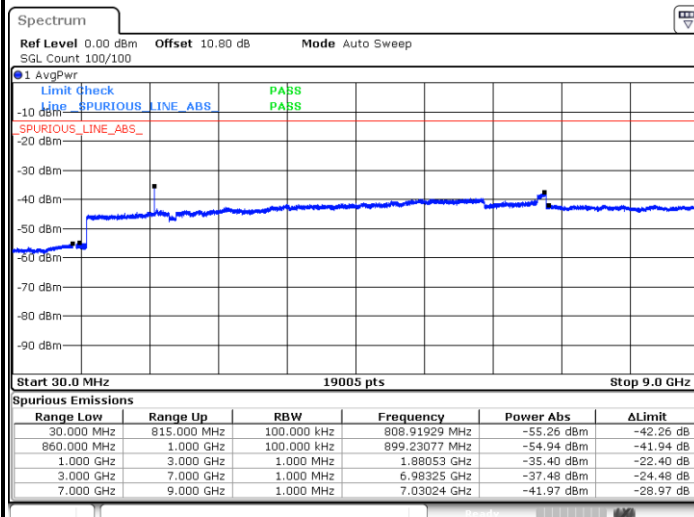
Date: 10.MAR.2020 22:26:44

Middle Channel / 1RB1



Date: 10.MAR.2020 22:30:38

Highest Channel / 1RB1

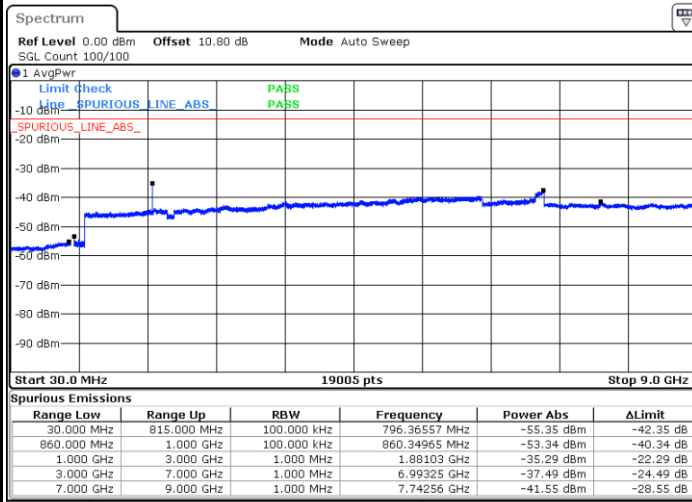


Date: 10.MAR.2020 22:34:13



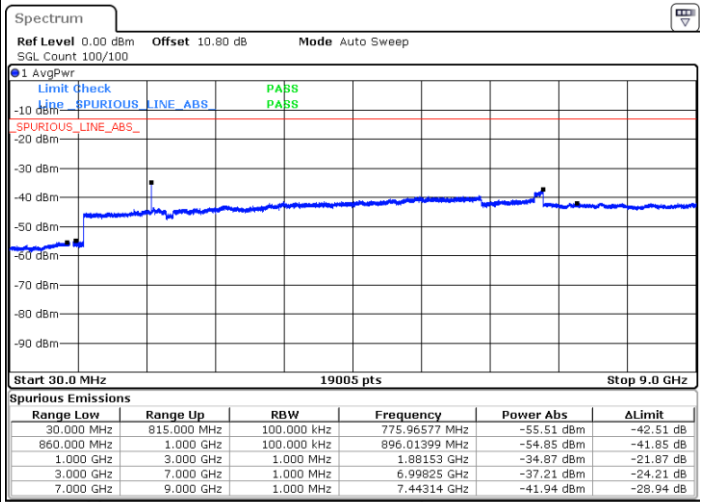
FR1 n5 / 20MHz / 64QAM / DFT-S OFDM

Lowest Channel / 1RB1



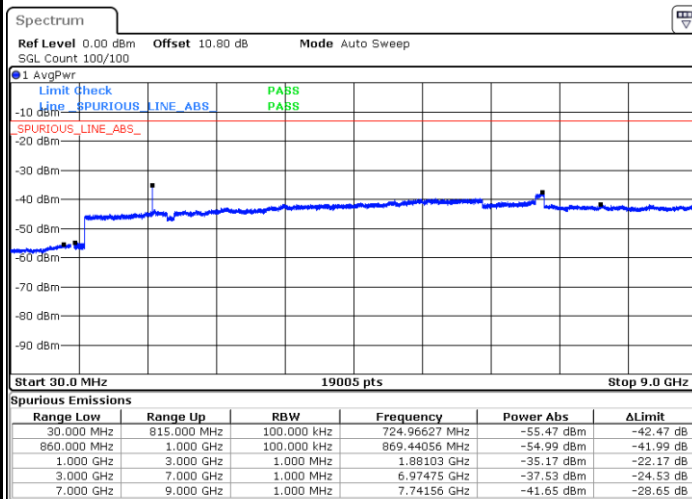
Date: 10.MAR.2020 22:26:03

Middle Channel / 1RB1



Date: 10.MAR.2020 22:31:21

Highest Channel / 1RB1

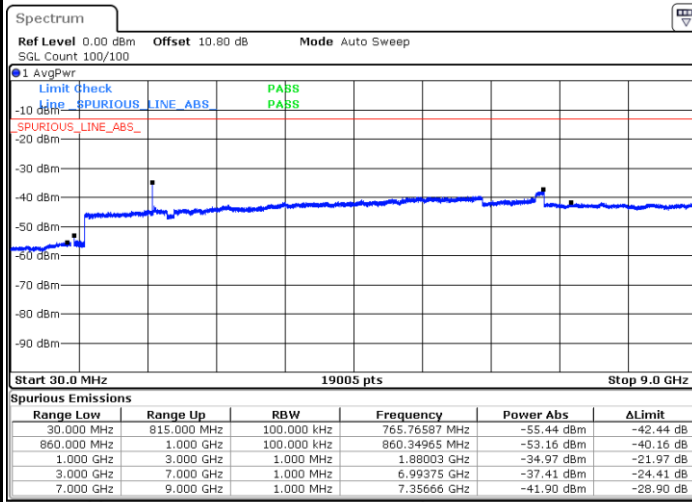


Date: 10.MAR.2020 22:33:31



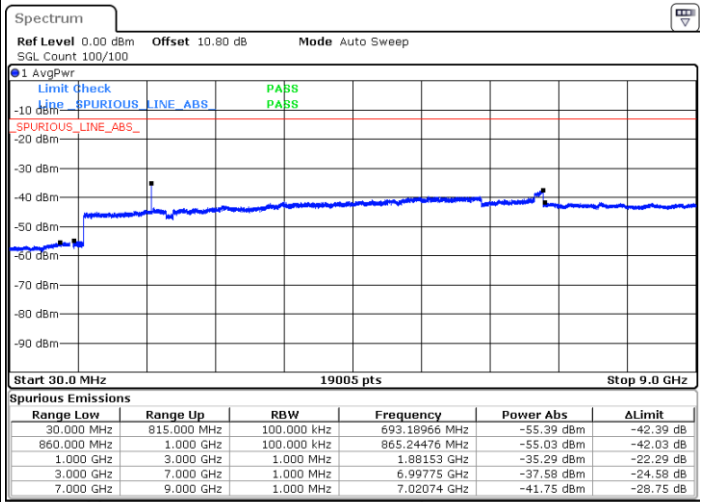
FR1 n5 / 20MHz / 256QAM / DFT-S OFDM

Lowest Channel / 1RB1



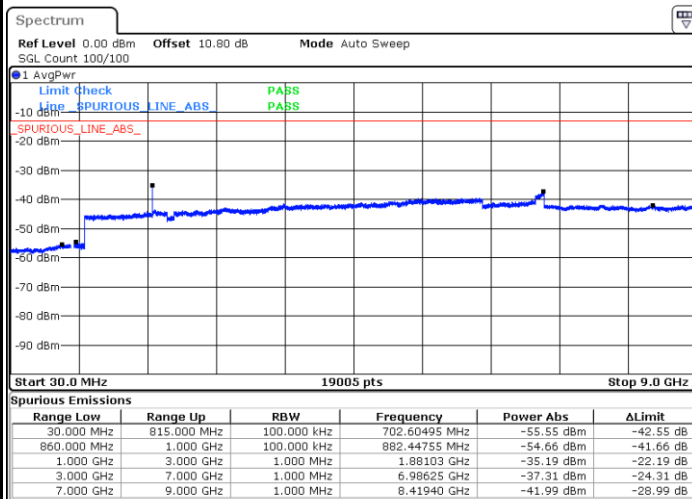
Date: 10.MAR.2020 22:25:21

Middle Channel / 1RB1



Date: 10.MAR.2020 22:32:04

Highest Channel / 1RB1



Date: 10.MAR.2020 22:32:48

Frequency Stability

Test Conditions		FR1 n5 (PI/2 BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0085	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0126	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0100	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0006	

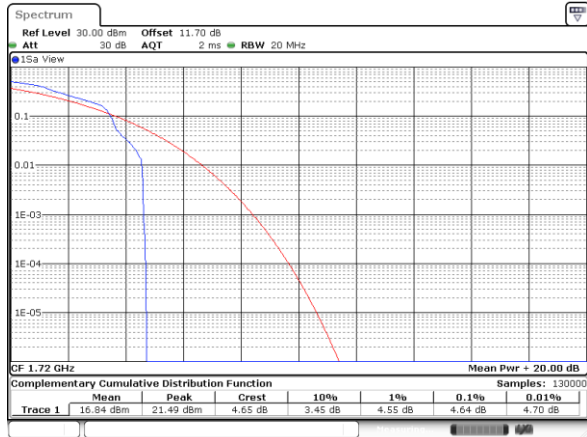
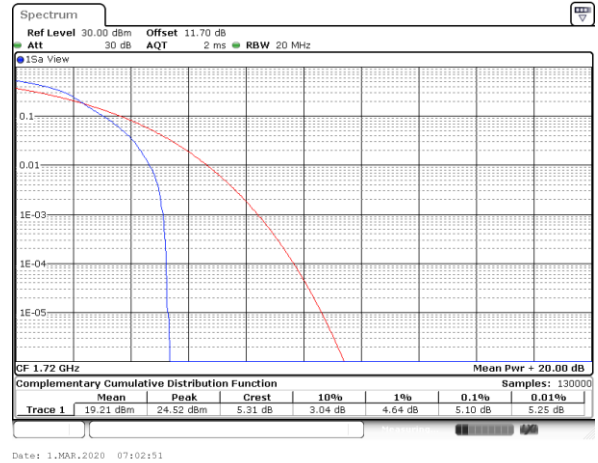
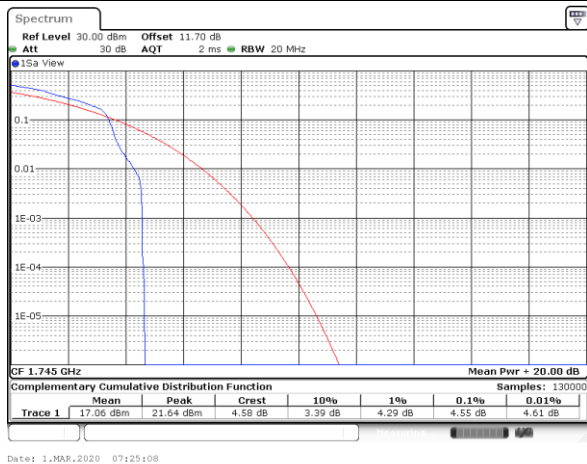
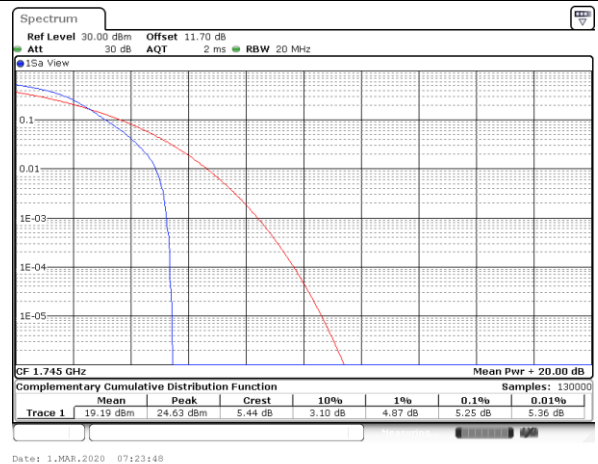
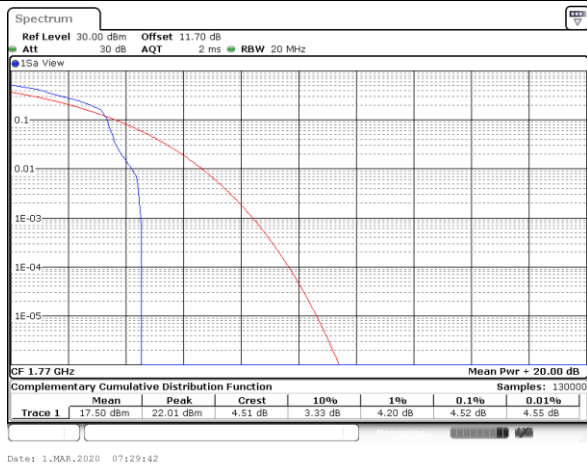
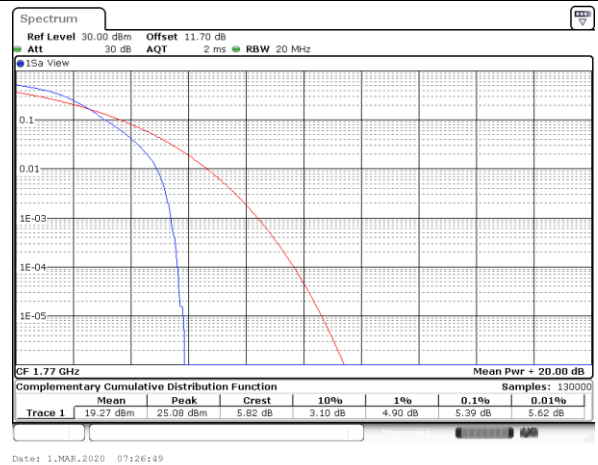
Note:

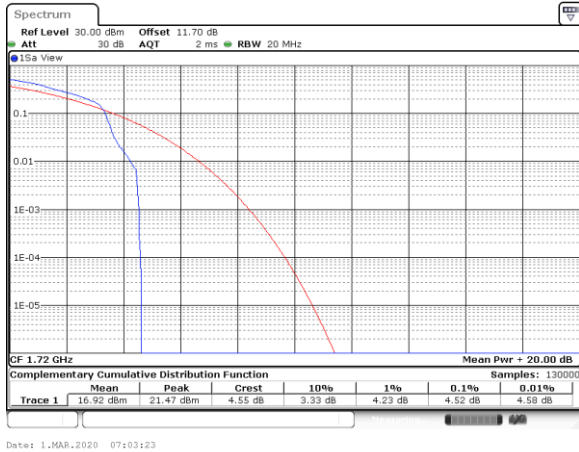
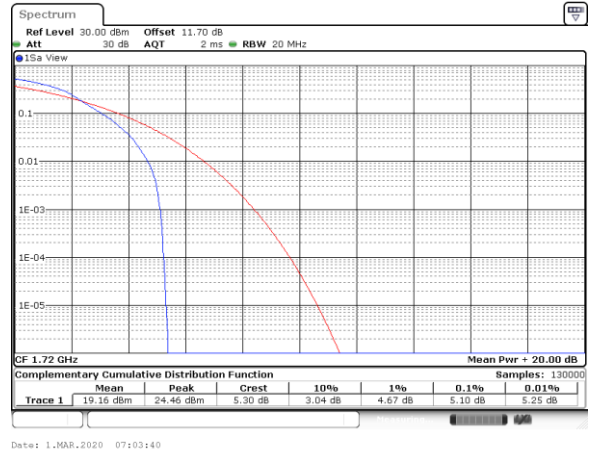
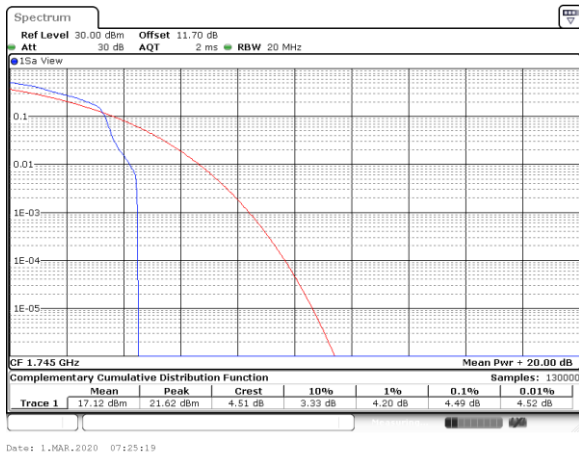
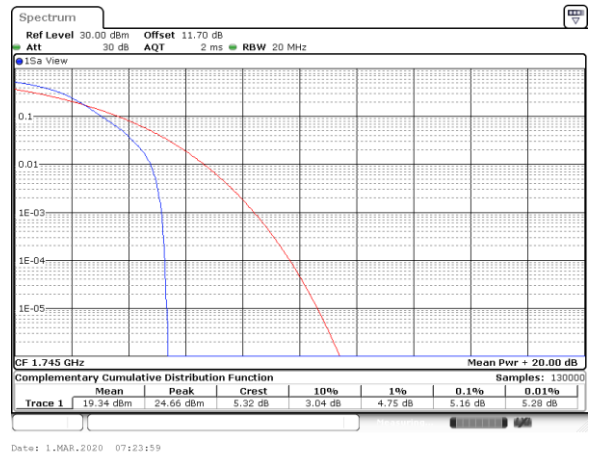
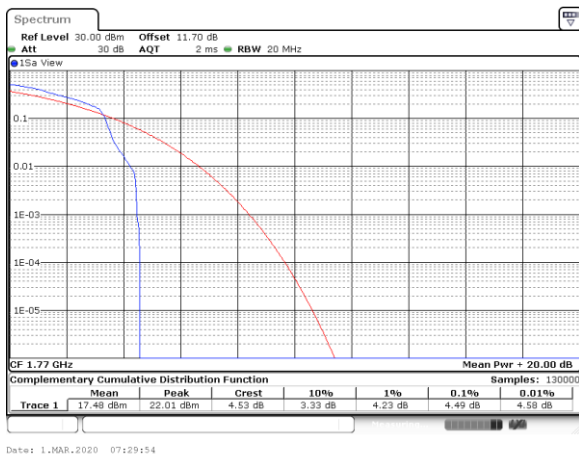
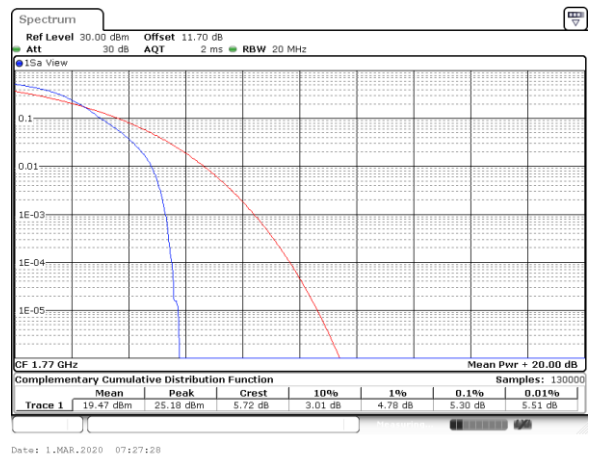
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

FR1 n66

Peak-to-Average Ratio

Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK		QPSK		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.64	5.10	4.52	5.10	PASS
Middle CH	4.55	5.25	4.49	5.16	
Highest CH	4.52	5.39	4.49	5.30	
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	16QAM		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.57	6.29	6.35	6.72	PASS
Middle CH	5.51	6.43	6.35	6.78	
Highest CH	5.59	6.29	6.35	6.78	
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	7.28	7.33	-	-	PASS
Middle CH	7.22	7.39	-	-	
Highest CH	7.30	7.36	-	-	

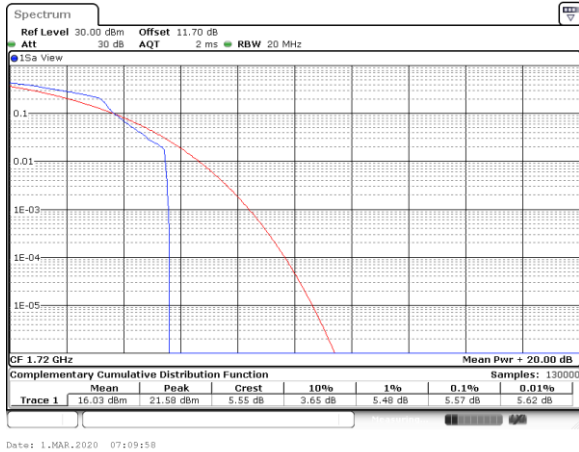
FR1 n66 / 20MHz / PI/2 BPSK / DFT-S OFDM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


FR1 n66 / 20MHz / QPSK / DFT-S OFDM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


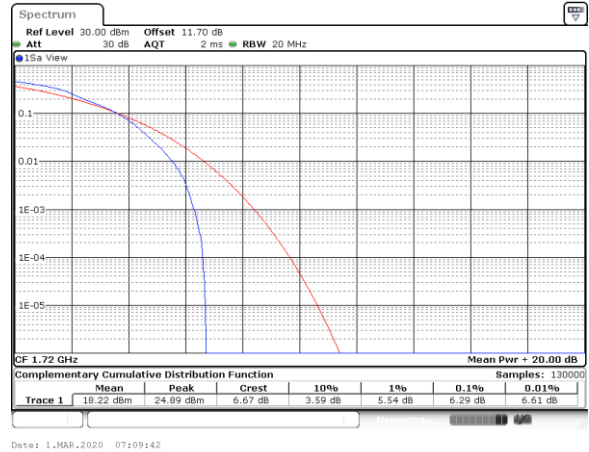


FR1 n66 / 20MHz / 16QAM / DFT-S OFDM

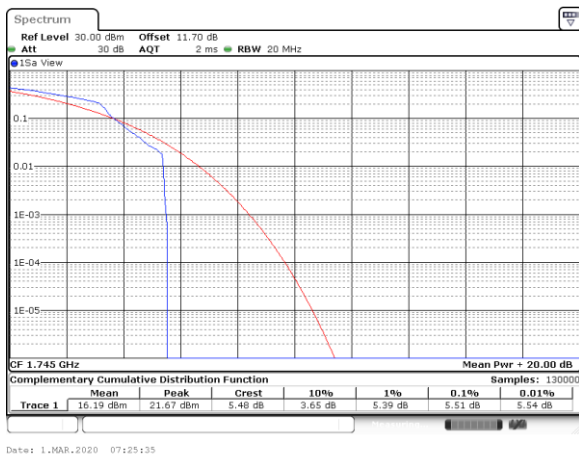
Lowest Channel / 1RB



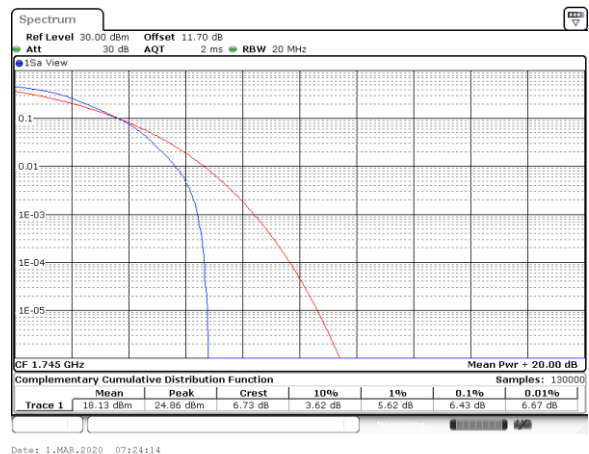
Lowest Channel / Full RB



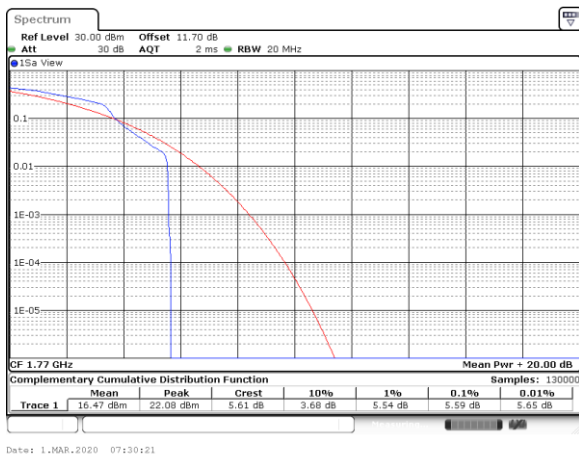
Middle Channel / 1RB



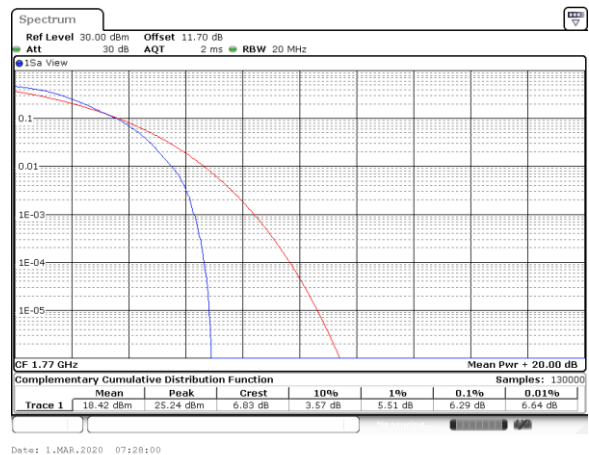
Middle Channel / Full RB



Highest Channel / 1RB

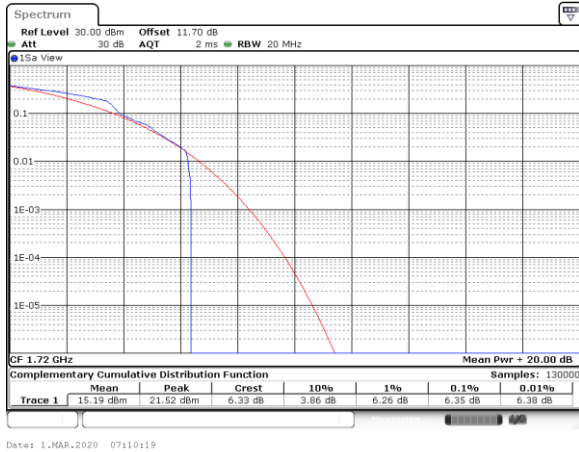


Highest Channel / Full RB

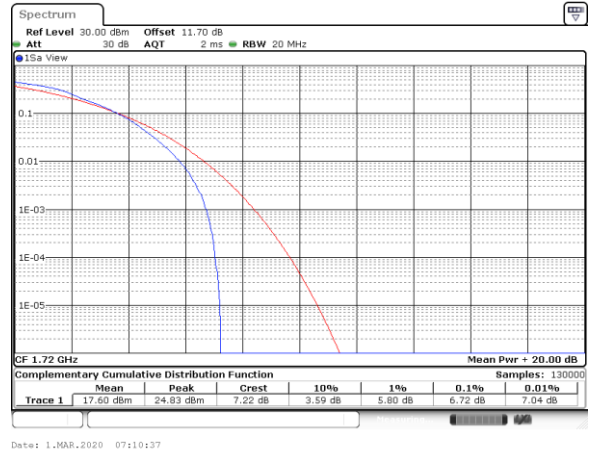


FR1 n66 / 20MHz / 64QAM / DFT-S OFDM

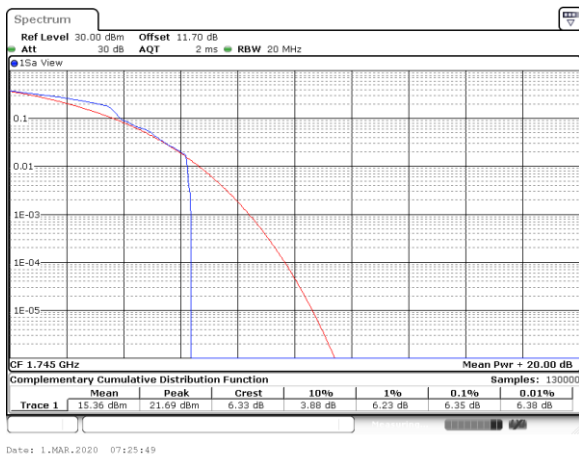
Lowest Channel / 1RB



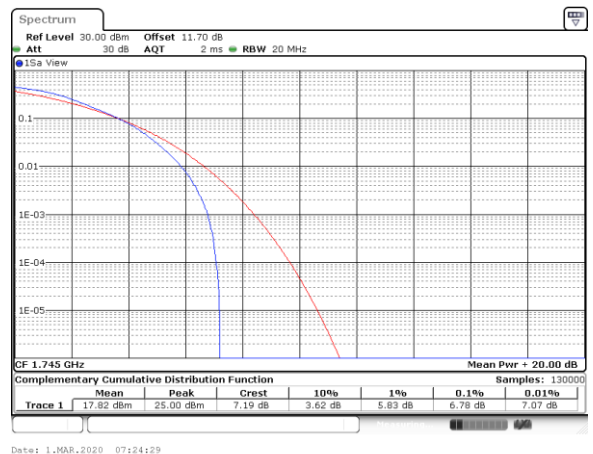
Lowest Channel / Full RB



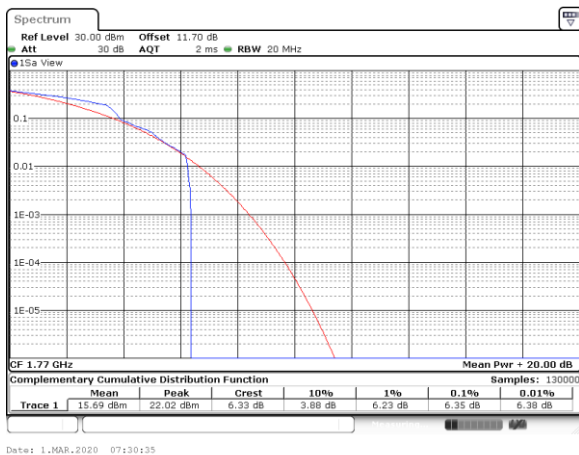
Middle Channel / 1RB



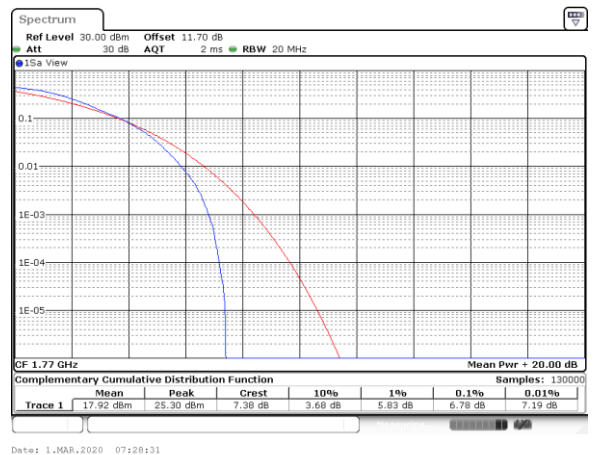
Middle Channel / Full RB

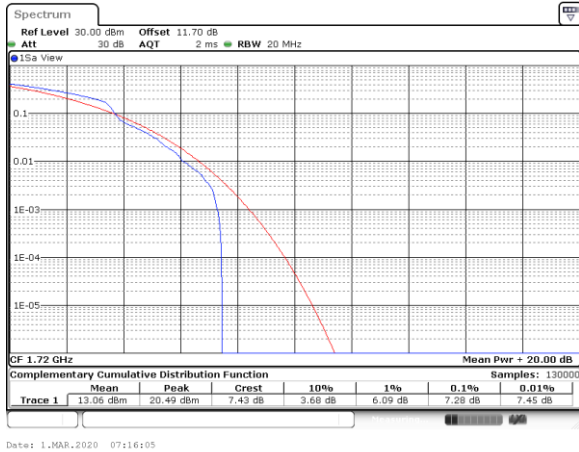
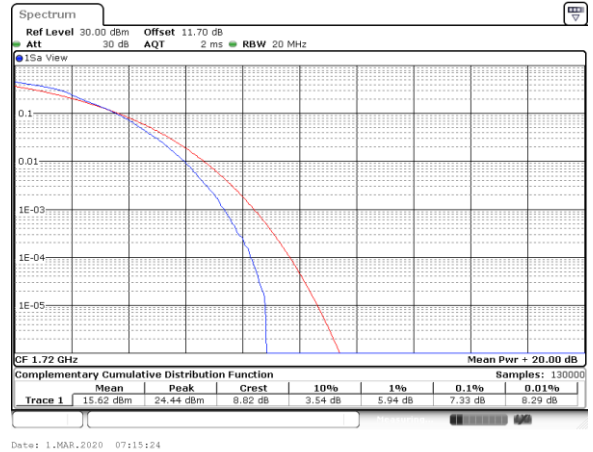
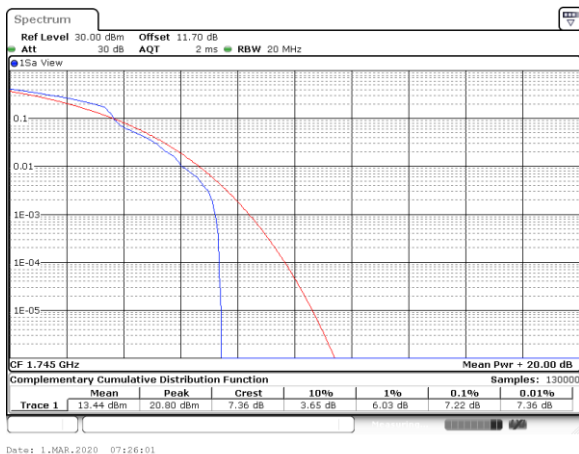
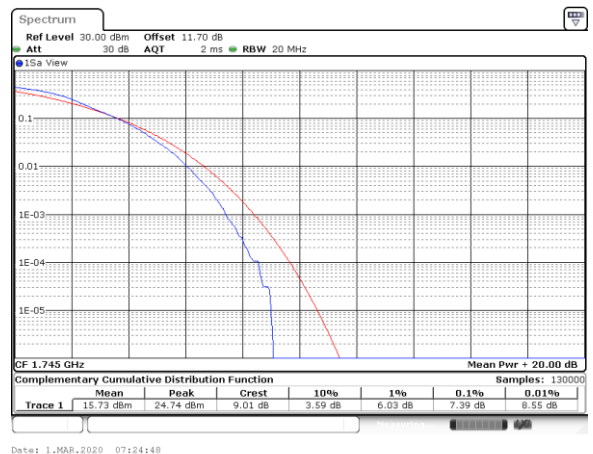
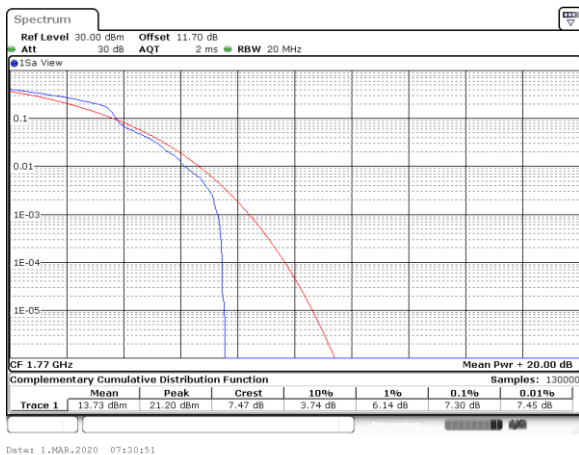
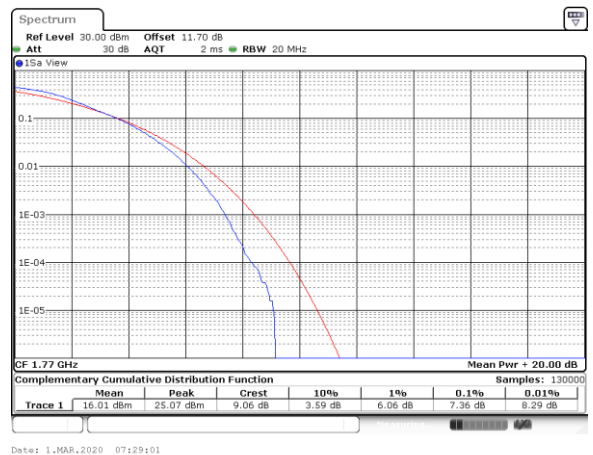


Highest Channel / 1RB



Highest Channel / Full RB



FR1 n66 / 20MHz / 256QAM / DFT-S OFDM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


26dB Bandwidth

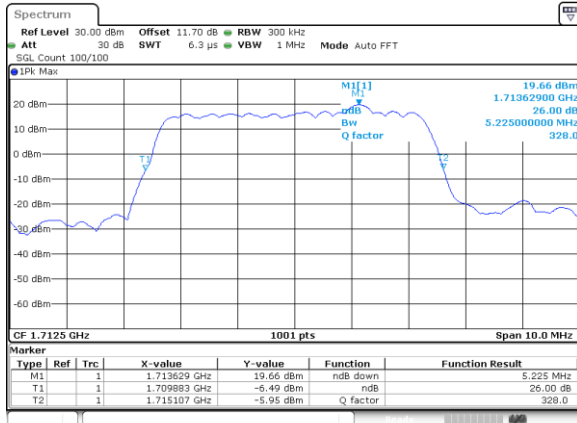
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Lowest CH	5.23	5.19	9.61	9.61	14.24	14.30	18.78	18.74
Middle CH	5.43	5.15	9.71	9.61	14.24	14.24	18.82	18.86
Highest CH	5.26	5.25	9.69	9.61	14.42	14.24	18.66	18.82
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM
Lowest CH	5.36	5.35	9.99	9.75	14.24	14.36	18.74	18.90
Middle CH	5.37	5.46	9.73	9.81	14.30	14.18	18.74	18.78
Highest CH	5.42	5.35	10.03	9.75	14.30	14.15	18.74	18.86
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	256QAM	-	256QAM	-	256QAM	-	256QAM	-
Lowest CH	5.18		9.65		14.27		18.82	
Middle CH	5.17		9.67		14.27		18.86	
Highest CH	5.46		9.65		14.15		18.82	

Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.15	5.39	10.11	9.99	14.90	14.99	19.82	19.86
Middle CH	5.15	5.25	10.35	10.15	15.20	14.93	20.06	19.82
Highest CH	5.25	5.14	10.03	10.03	14.90	14.87	19.86	19.82
Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	5.17	5.26	10.09	10.15	15.02	14.96	19.74	19.82
Middle CH	5.18	5.15	10.01	10.03	14.90	14.90	20.02	19.82
Highest CH	5.20	5.23	9.99	10.01	15.05	14.90	19.78	19.82



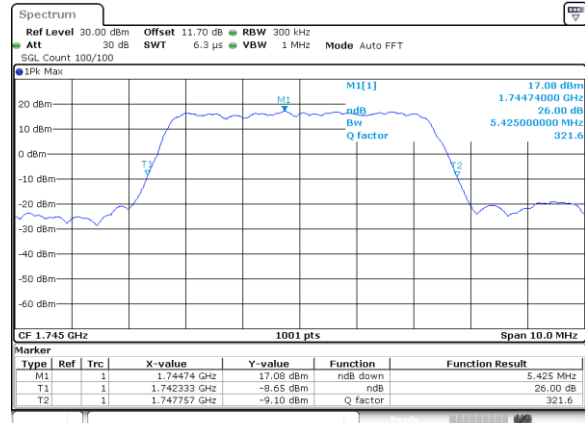
FR1 n66 / 5MHz / PI/2 BPSK

Lowest Channel / DFT-S OFDM



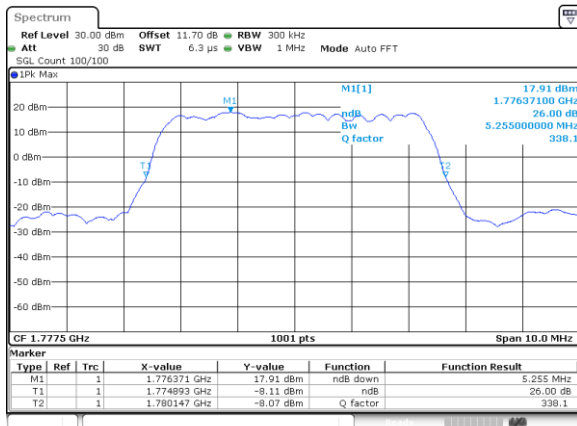
Date: 1.MAR.2020 03:23:52

Middle Channel / DFT-S OFDM



Date: 1.MAR.2020 03:42:09

Highest Channel / DFT-S OFDM

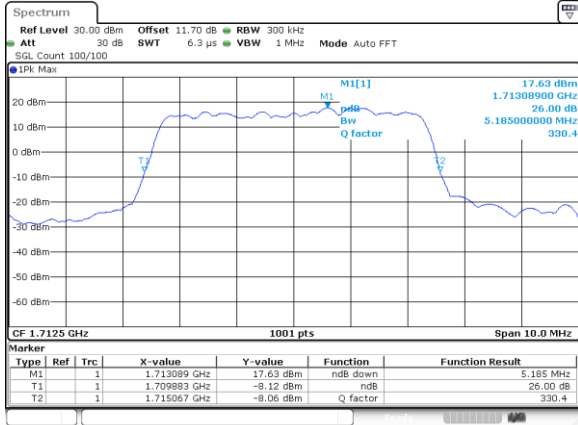


Date: 1.MAR.2020 03:52:03

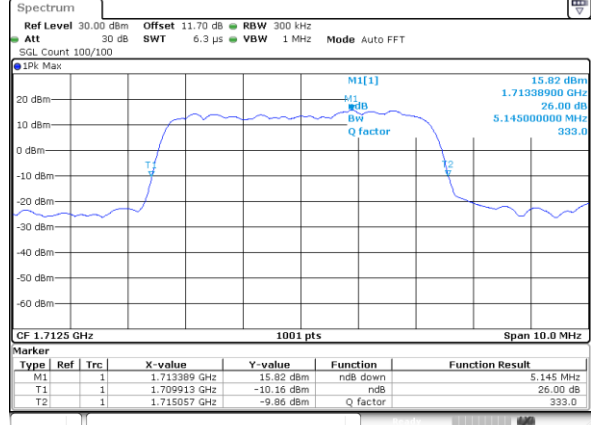


FR1 n66 / 5MHz / QPSK

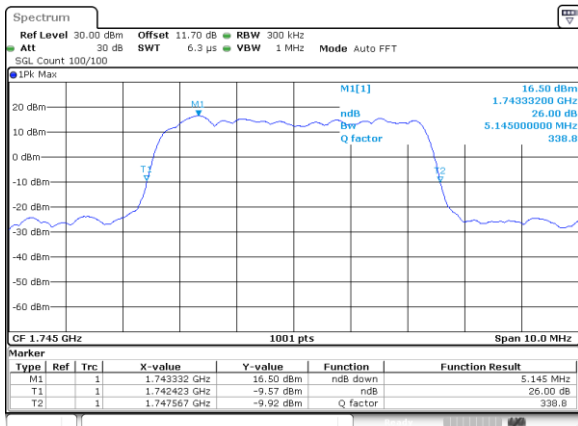
Lowest Channel / DFT-S OFDM



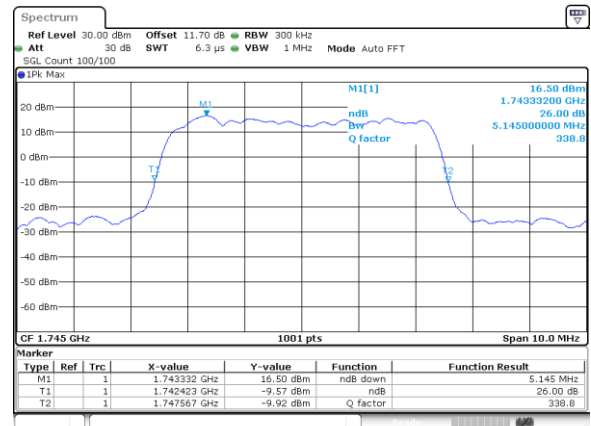
Lowest Channel / CP OFDM



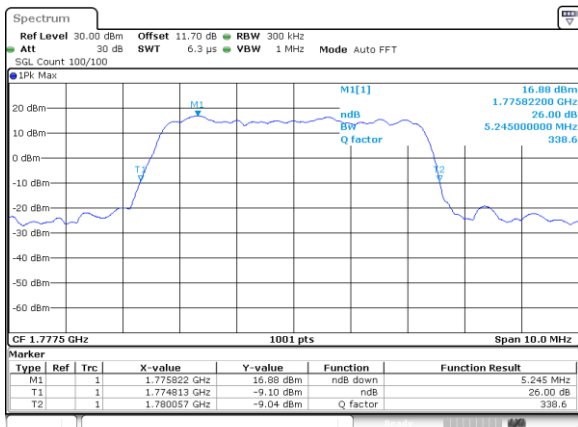
Middle Channel / DFT-S OFDM



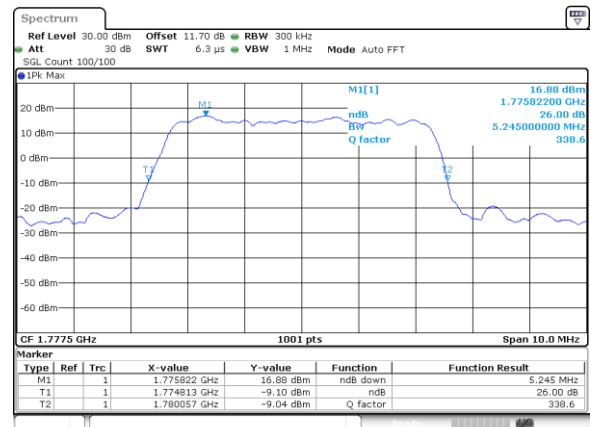
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



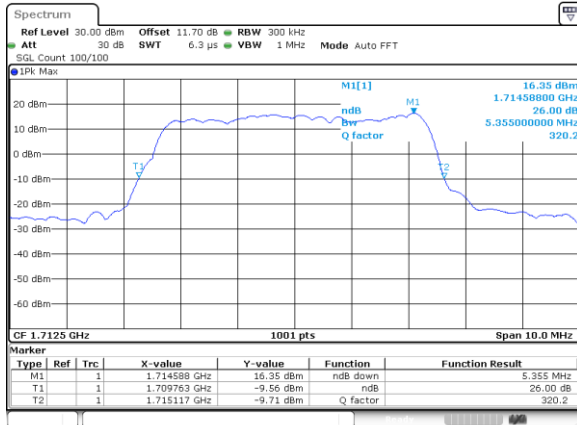
Highest Channel / CP OFDM



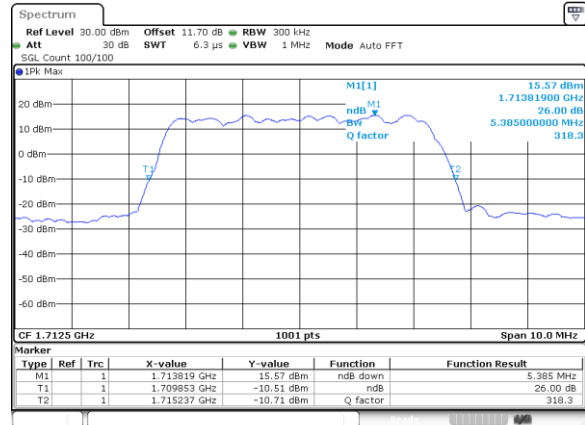


FR1 n66 / 5MHz / 16QAM

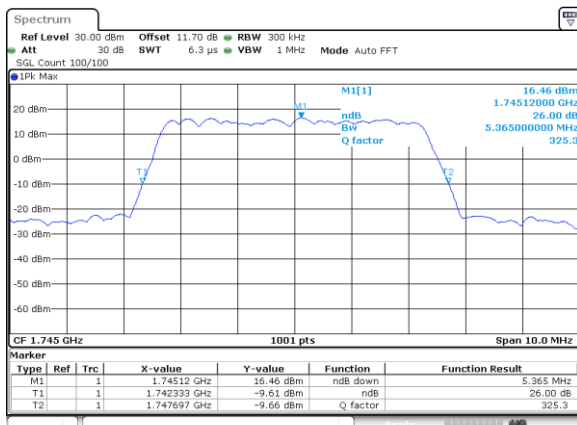
Lowest Channel / DFT-S OFDM



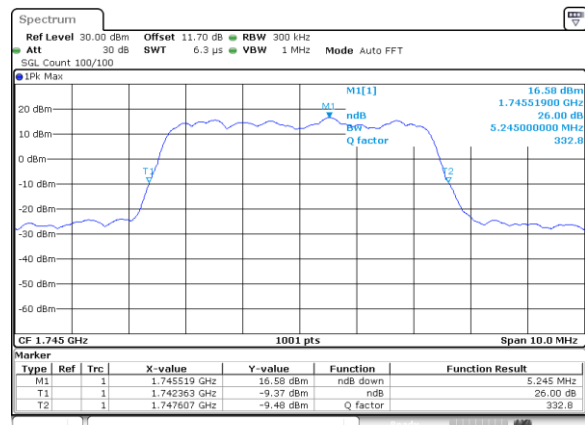
Lowest Channel / CP OFDM



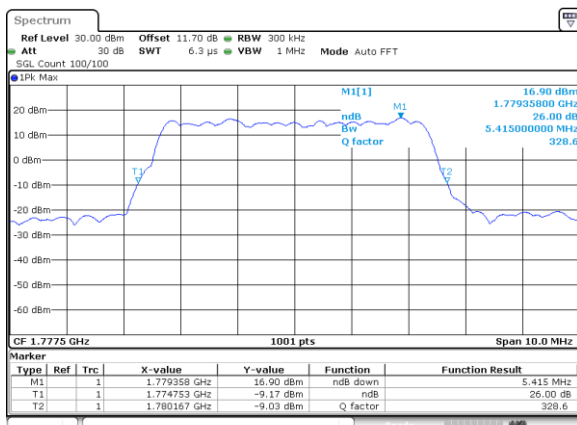
Middle Channel / DFT-S OFDM



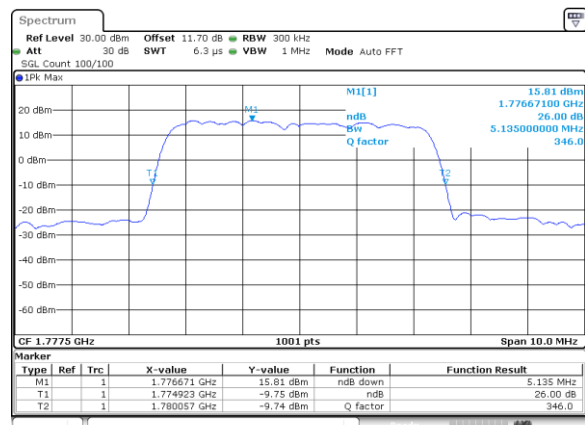
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



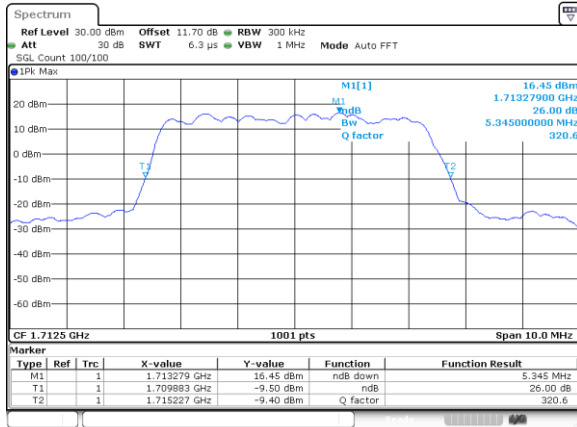
Highest Channel / CP OFDM



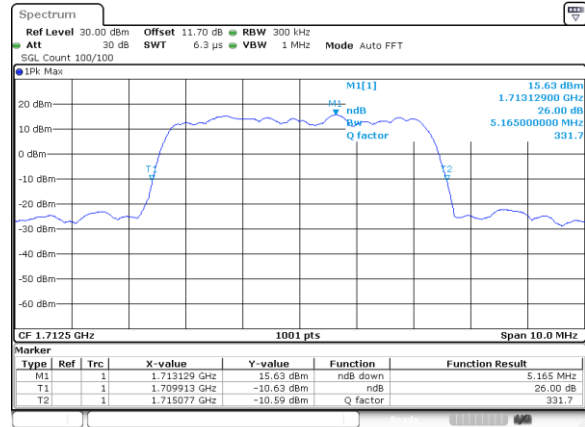


FR1 n66 / 5MHz / 64QAM

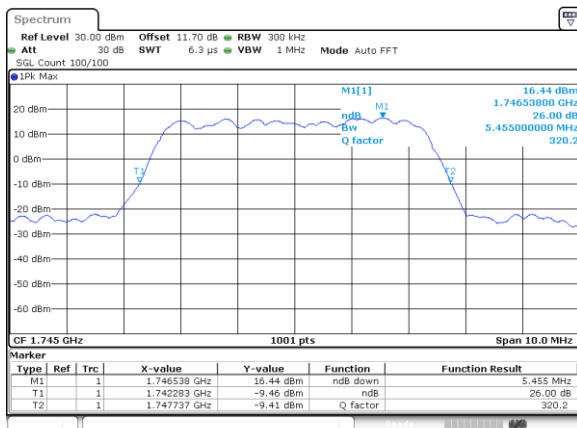
Lowest Channel / DFT-S OFDM



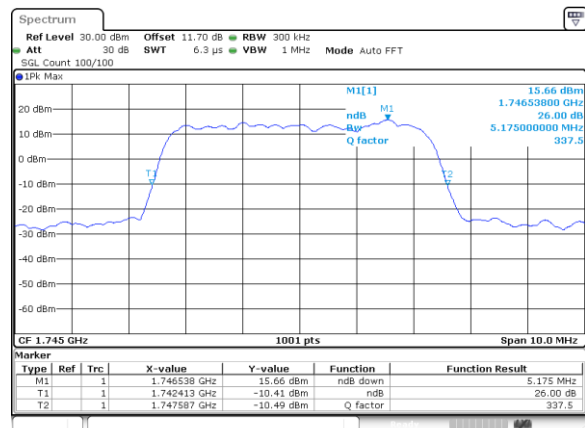
Lowest Channel / CP OFDM



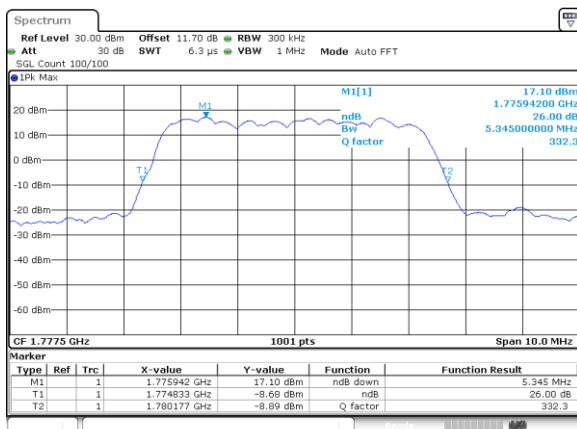
Middle Channel / DFT-S OFDM



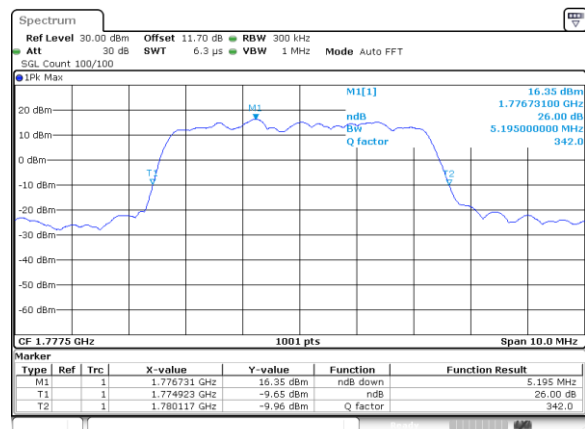
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



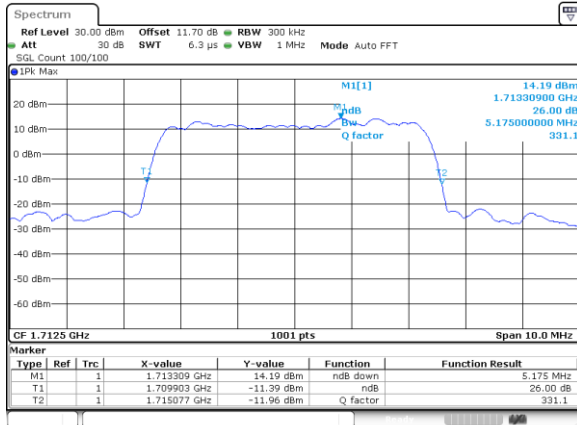
Highest Channel / CP OFDM



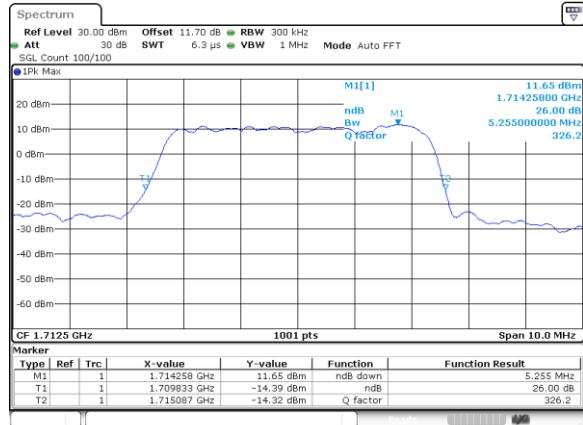


FR1 n66 / 5MHz / 256QAM

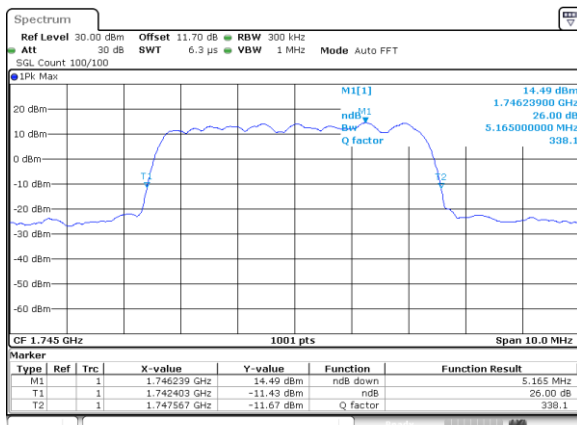
Lowest Channel / DFT-S OFDM



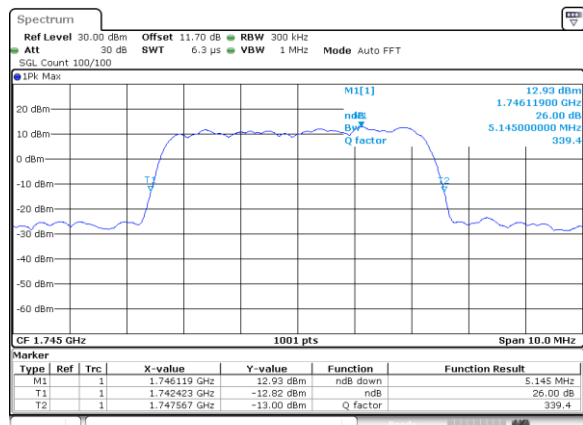
Lowest Channel / CP OFDM



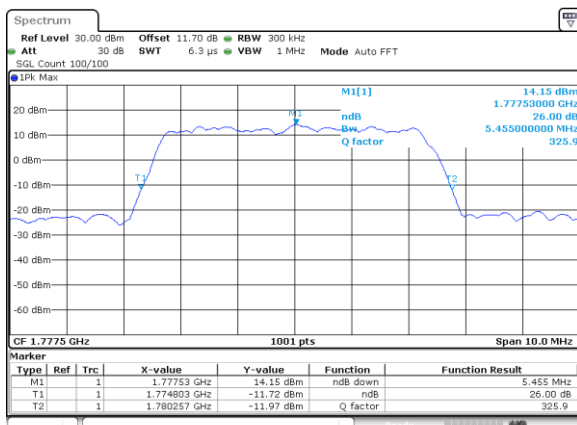
Middle Channel / DFT-S OFDM



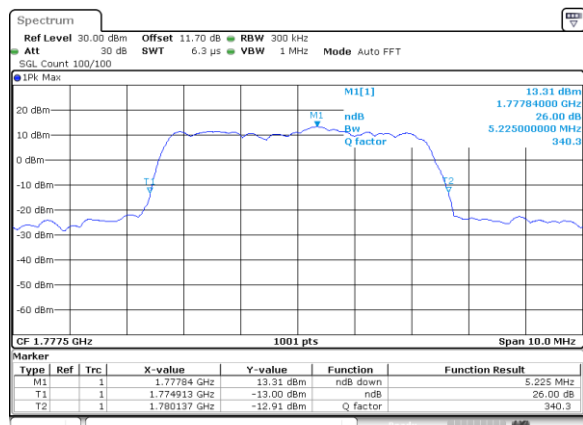
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



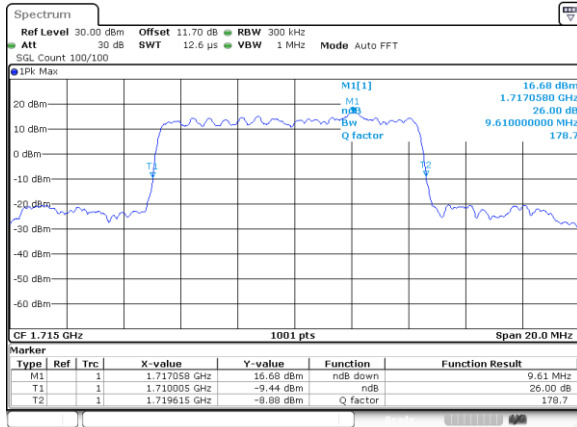
Highest Channel / CP OFDM





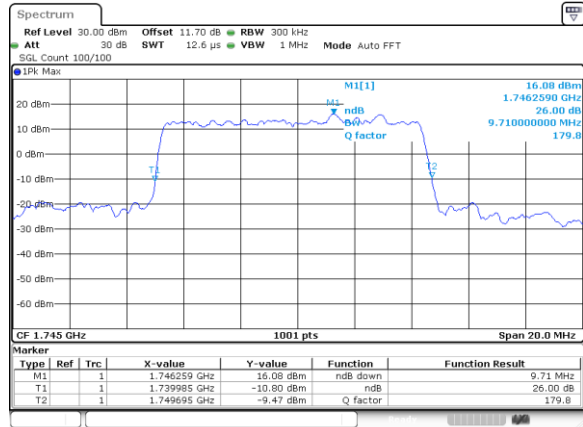
FR1 n66 / 10MHz / PI/2 BPSK

Lowest Channel / DFT-S OFDM



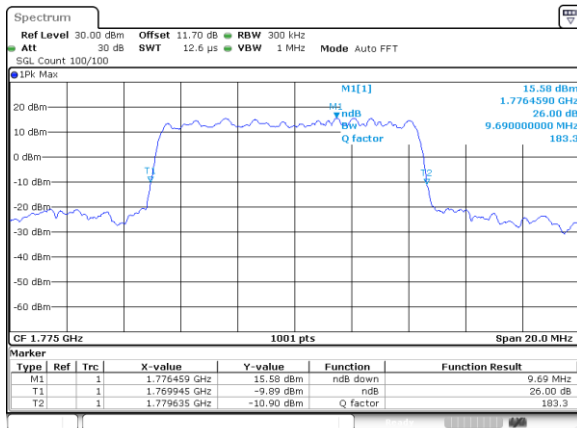
Date: 1.MAR.2020 04:09:21

Middle Channel / DFT-S OFDM



Date: 1.MAR.2020 04:38:13

Highest Channel / DFT-S OFDM

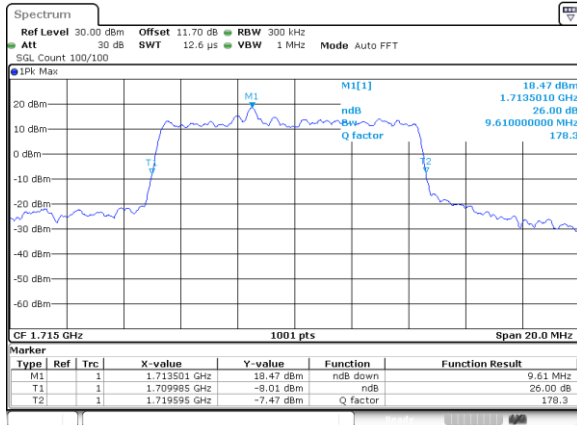


Date: 1.MAR.2020 04:44:53

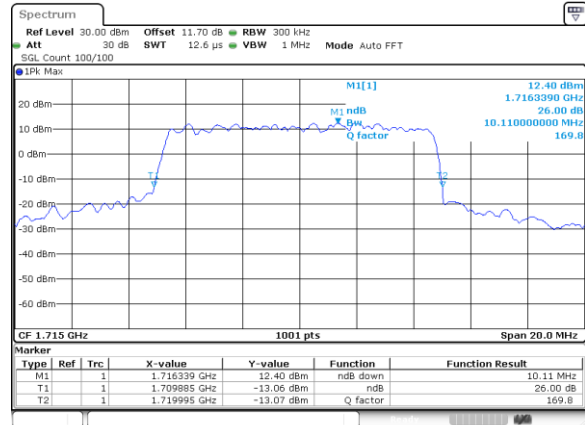


FR1 n66 / 10MHz / QPSK

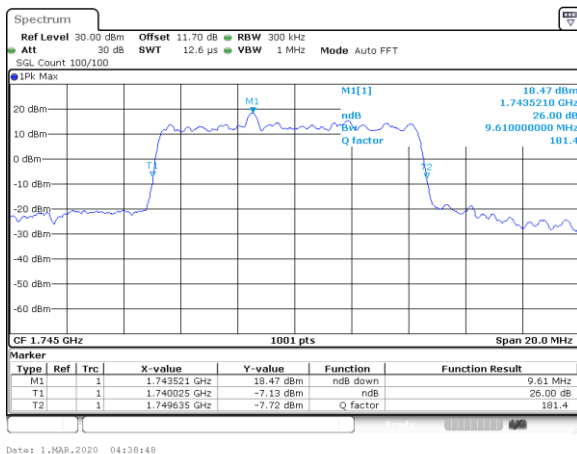
Lowest Channel / DFT-S OFDM



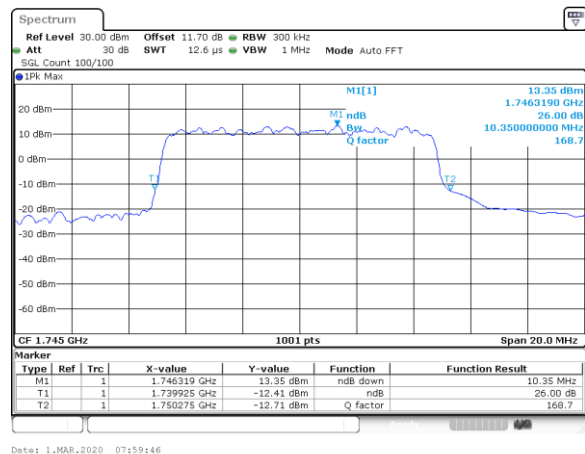
Lowest Channel / CP OFDM



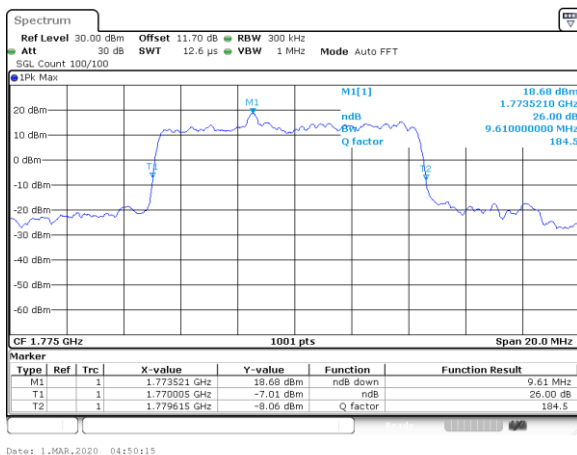
Middle Channel / DFT-S OFDM



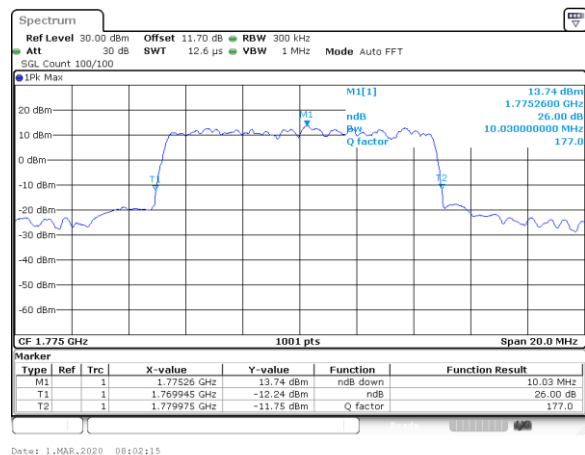
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



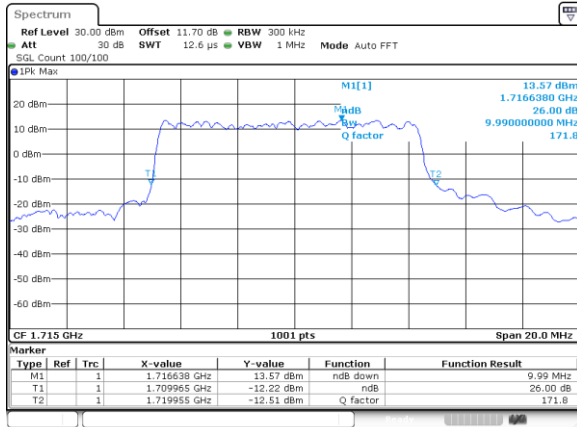
Highest Channel / CP OFDM



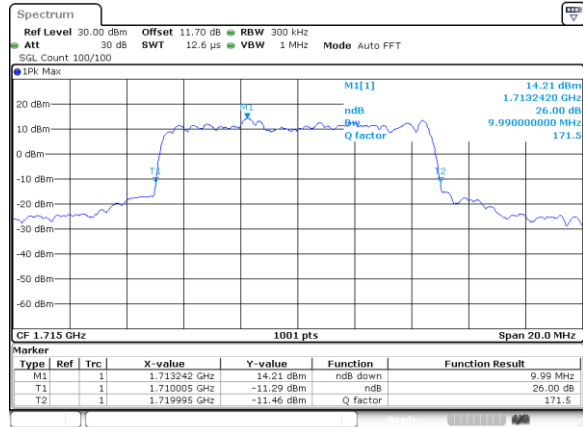


FR1 n66 / 10MHz / 16QAM

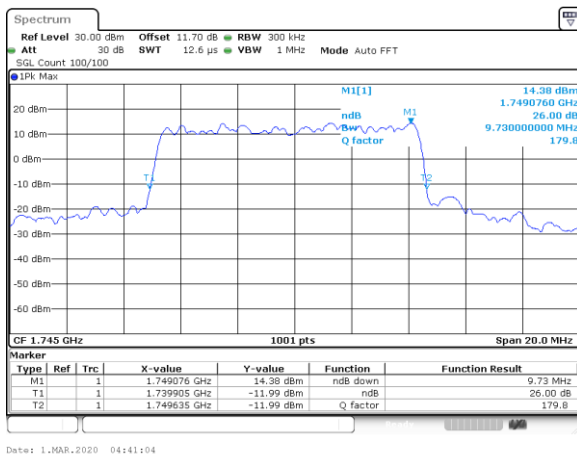
Lowest Channel / DFT-S OFDM



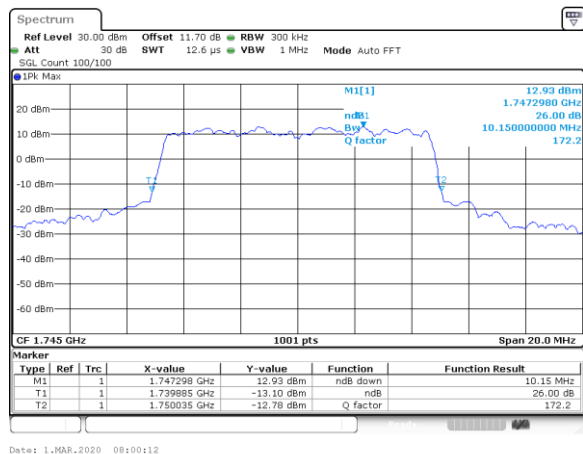
Lowest Channel / CP OFDM



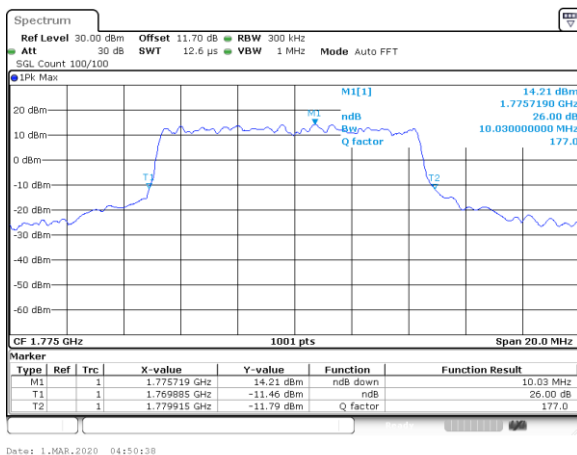
Middle Channel / DFT-S OFDM



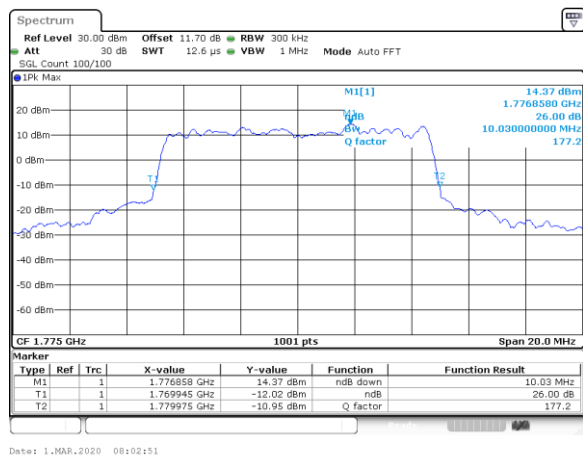
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



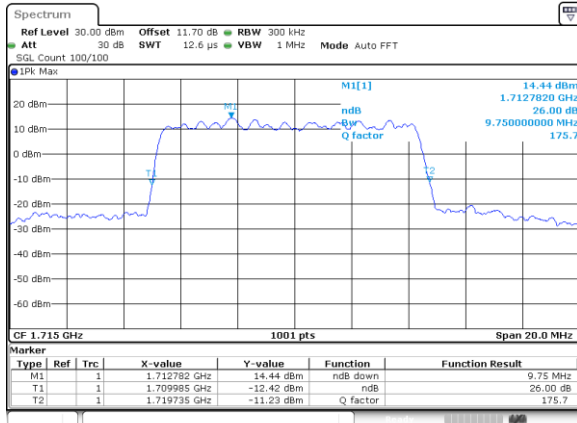
Highest Channel / CP OFDM



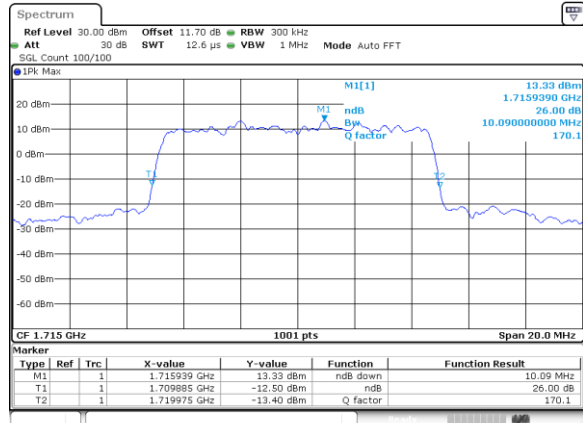


FR1 n66 / 10MHz / 64QAM

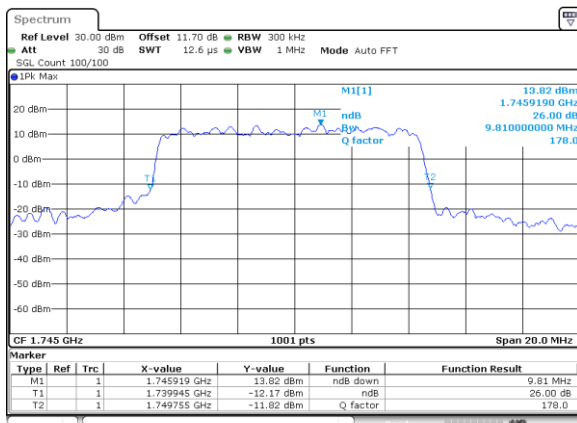
Lowest Channel / DFT-S OFDM



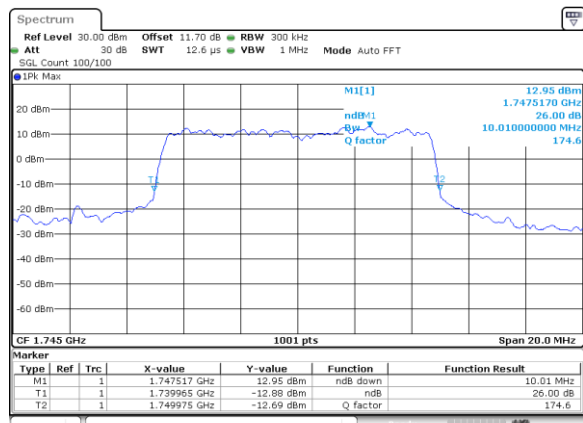
Lowest Channel / CP OFDM



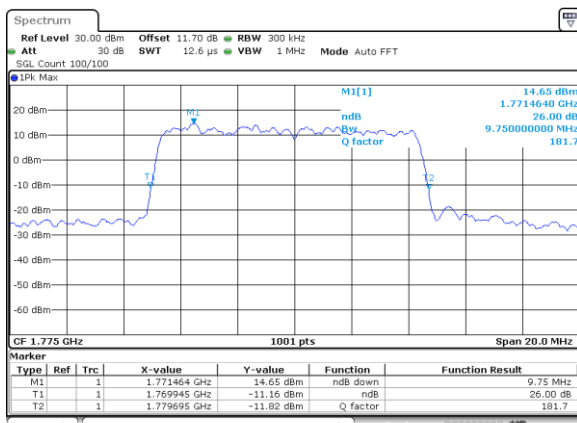
Middle Channel / DFT-S OFDM



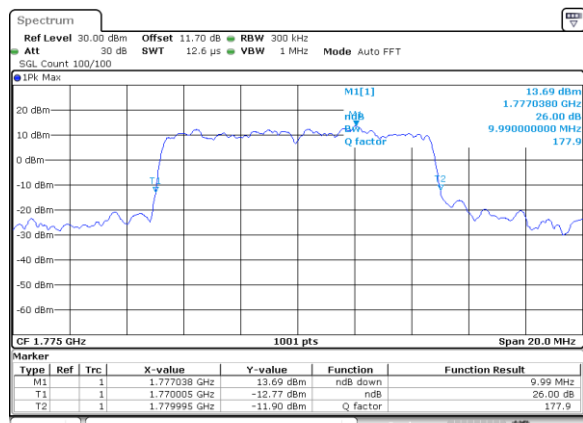
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



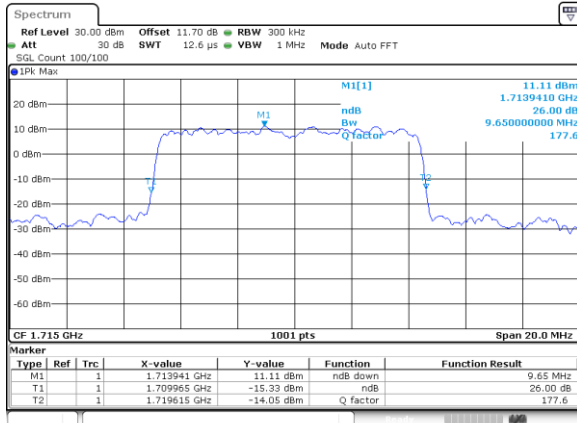
Highest Channel / CP OFDM





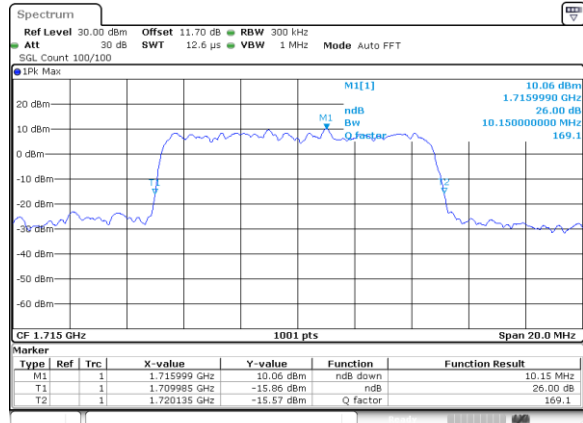
FR1 n66 / 10MHz / 256QAM

Lowest Channel / DFT-S OFDM



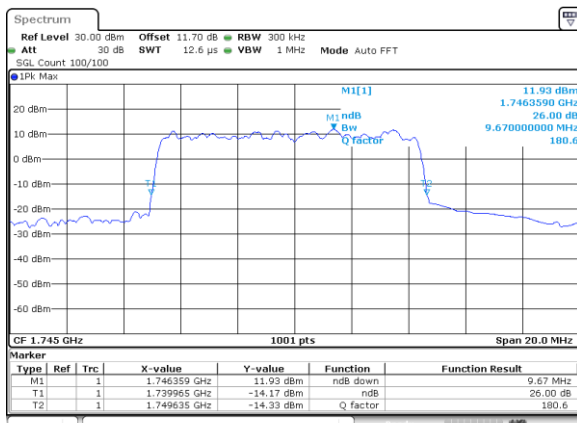
Date: 1.MAR.2020 04:33:46

Lowest Channel / CP OFDM



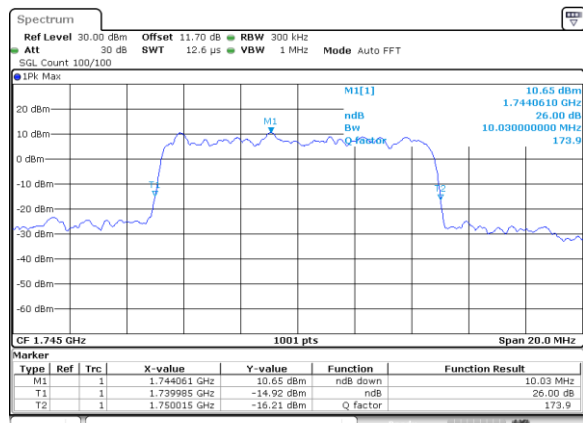
Date: 1.MAR.2020 07:59:08

Middle Channel / DFT-S OFDM



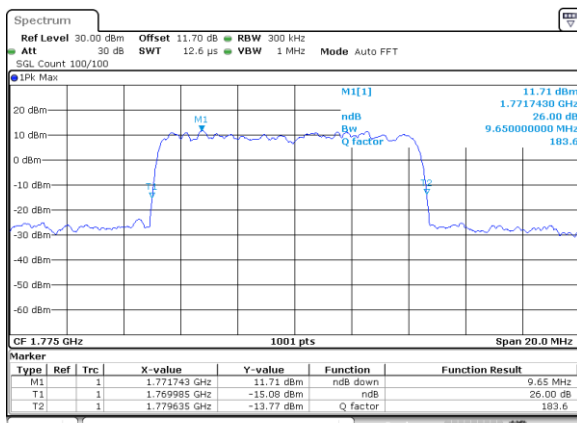
Date: 1.MAR.2020 04:43:52

Middle Channel / CP OFDM



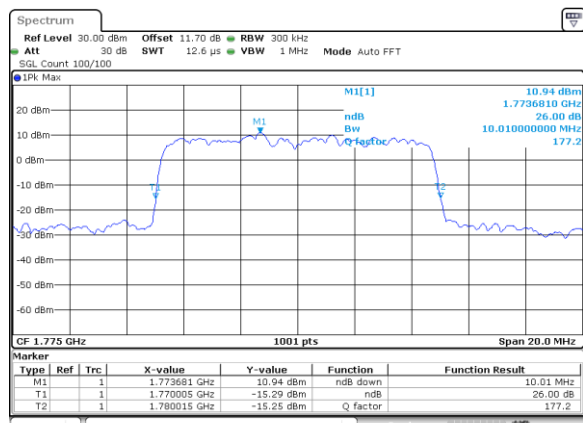
Date: 1.MAR.2020 08:00:56

Highest Channel / DFT-S OFDM



Date: 1.MAR.2020 04:56:57

Highest Channel / CP OFDM

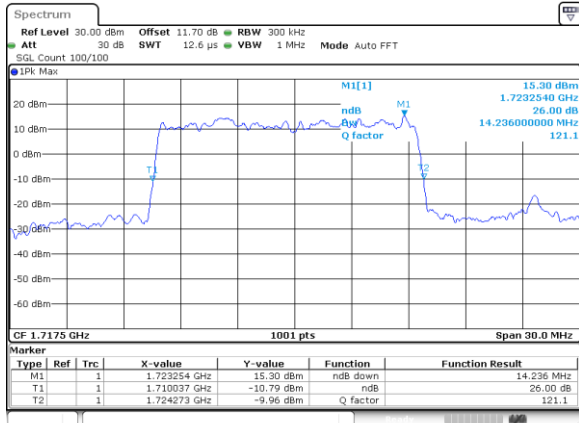


Date: 1.MAR.2020 08:03:34

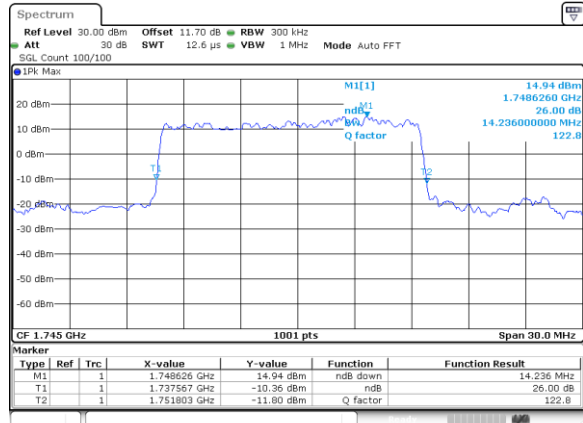


FR1 n66 / 15MHz / PI/2 BPSK

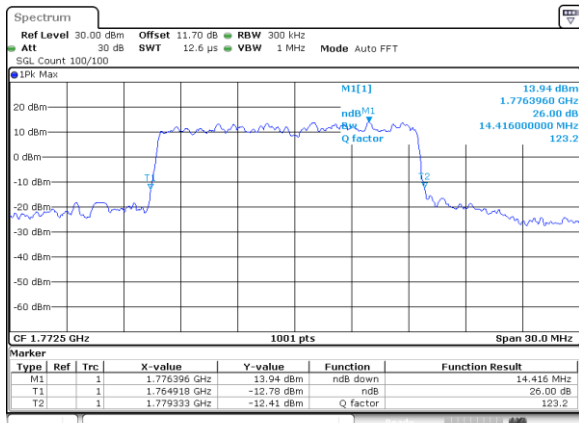
Lowest Channel / DFT-S OFDM



Middle Channel / DFT-S OFDM



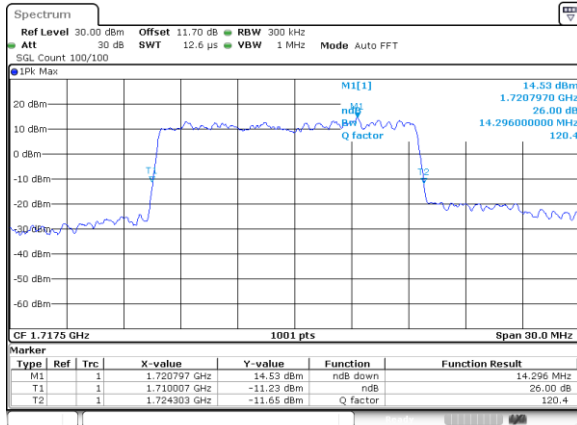
Highest Channel / DFT-S OFDM



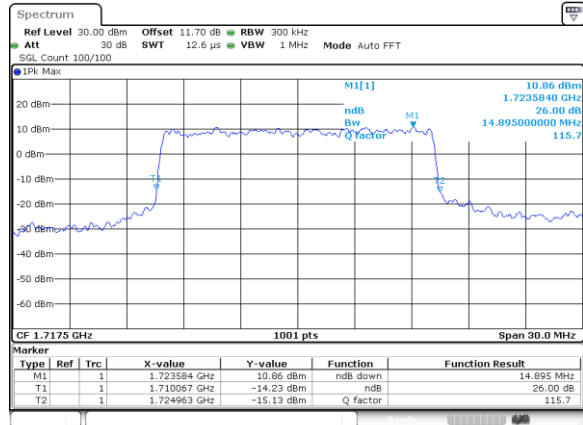


FR1 n66 / 15MHz / QPSK

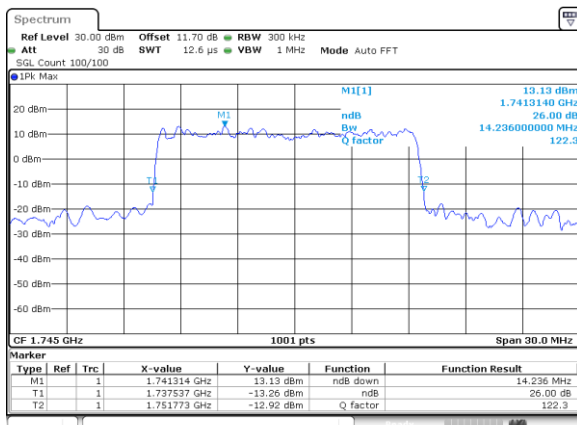
Lowest Channel / DFT-S OFDM



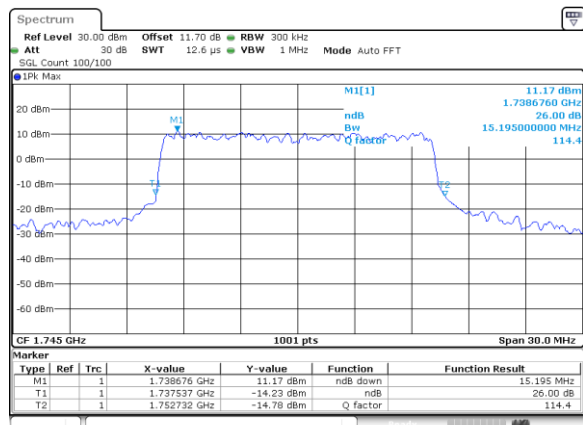
Lowest Channel / CP OFDM



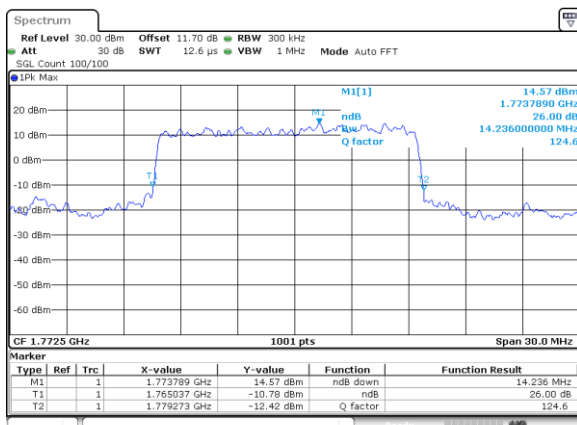
Middle Channel / DFT-S OFDM



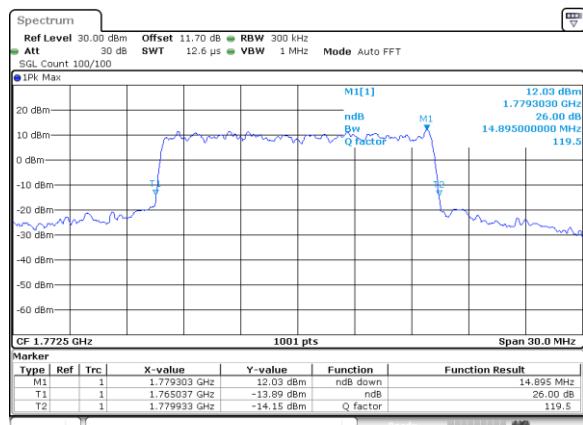
Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM

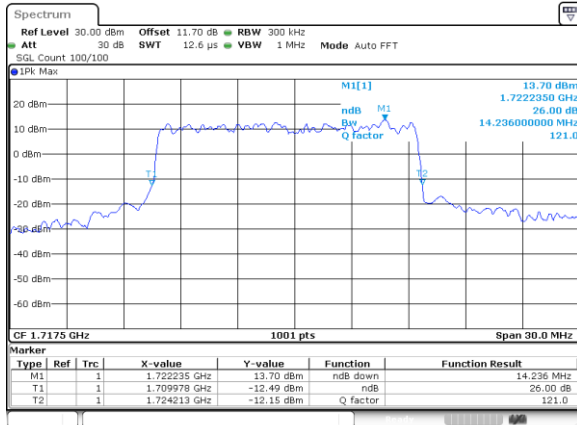


Highest Channel / CP OFDM

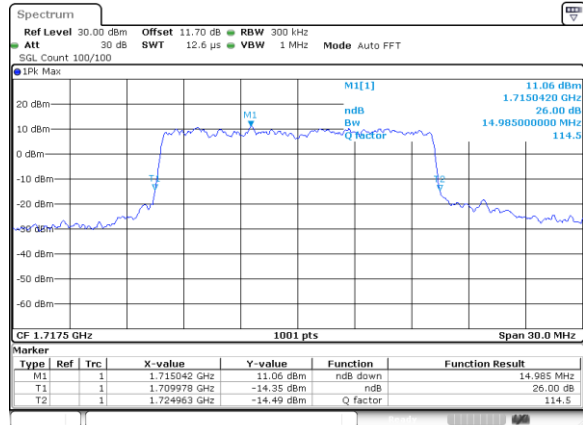


FR1 n66 / 15MHz / 16QAM

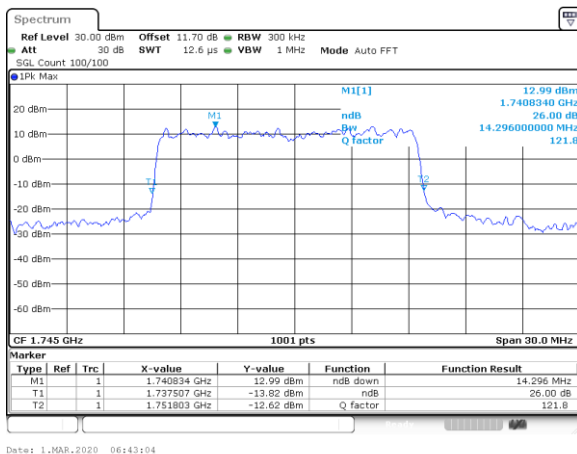
Lowest Channel / DFT-S OFDM



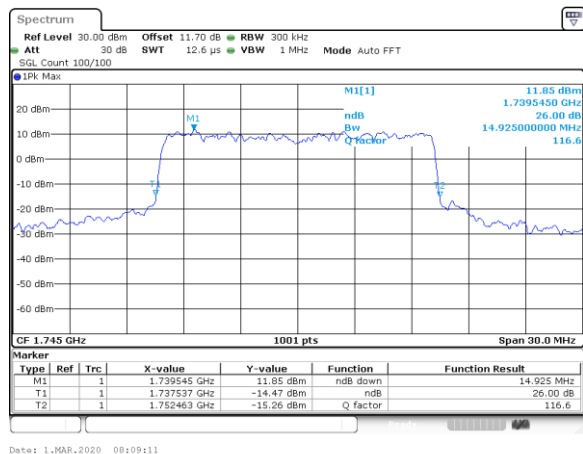
Lowest Channel / CP OFDM



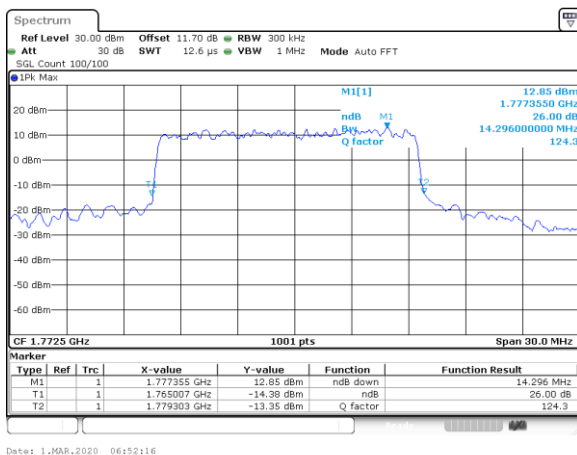
Middle Channel / DFT-S OFDM



Middle Channel / CP OFDM



Highest Channel / DFT-S OFDM



Highest Channel / CP OFDM

