

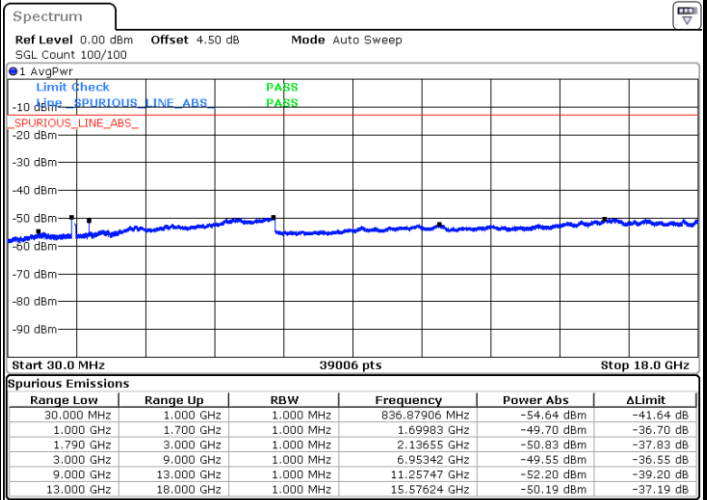
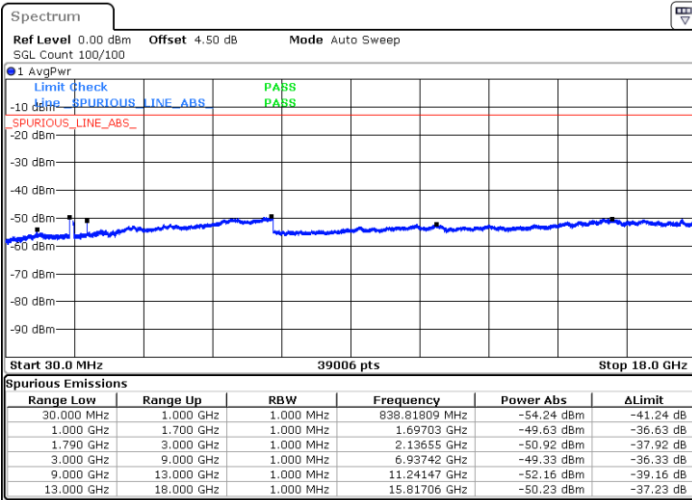


Conducted Spurious Emission

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

Lowest Channel / 1RB

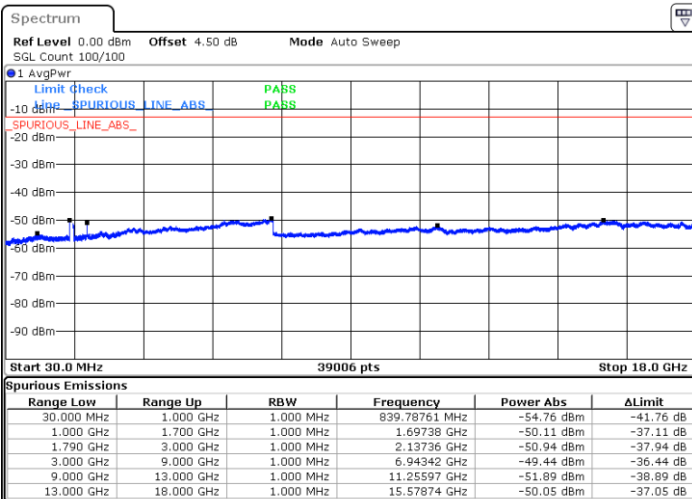
Middle Channel / 1RB



Date: 3.FEB.2021 07:48:53

Date: 3.FEB.2021 07:54:30

Highest Channel / 1RB



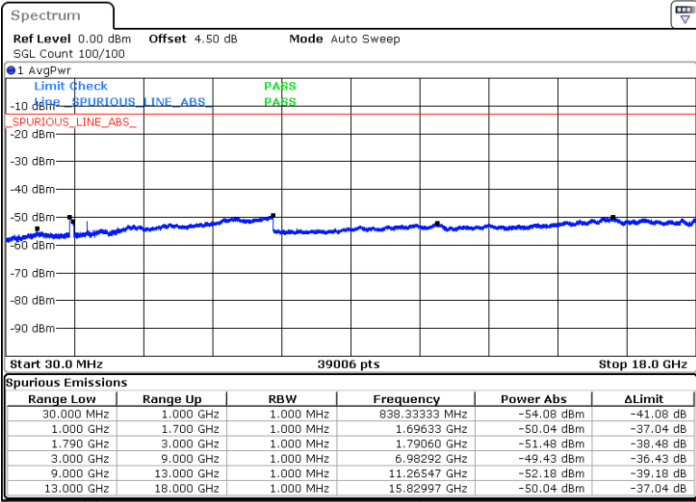
Date: 3.FEB.2021 07:58:21



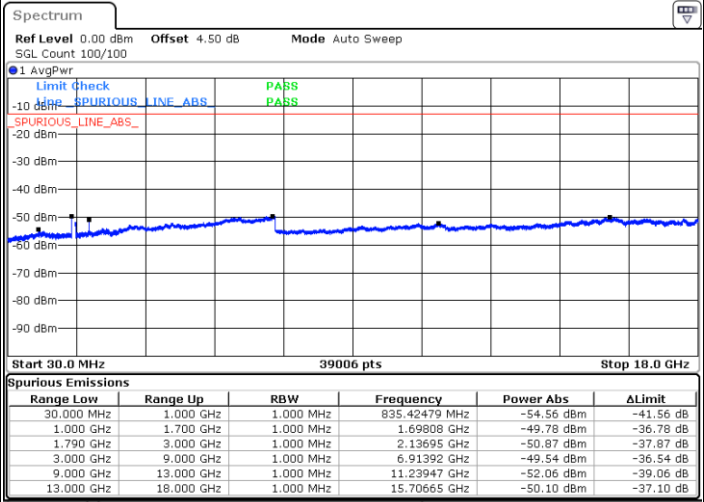
FR1 n66+5A / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

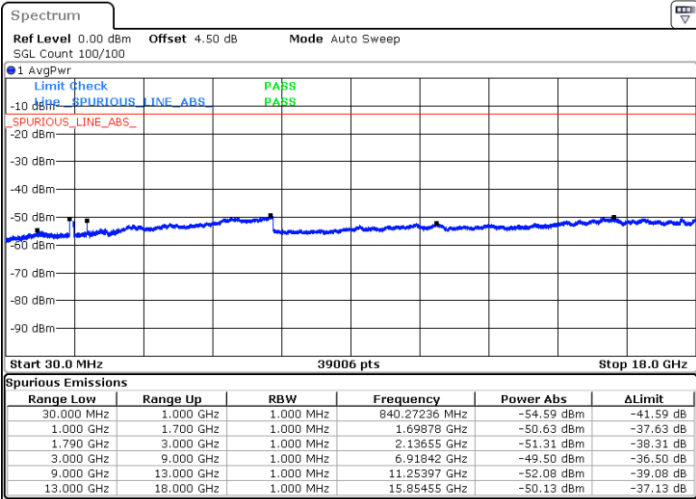


Date: 3.FEB.2021 07:49:37



Date: 3.FEB.2021 07:57:44

Highest Channel / 1RB



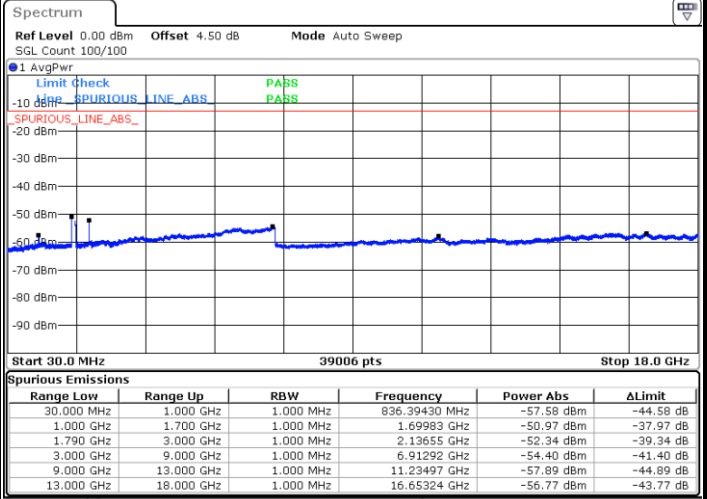
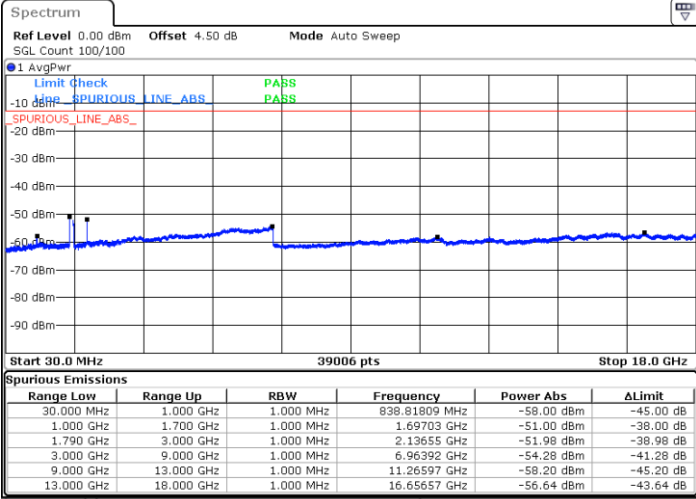
Date: 3.FEB.2021 08:05:19



FR1 n66+5A / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

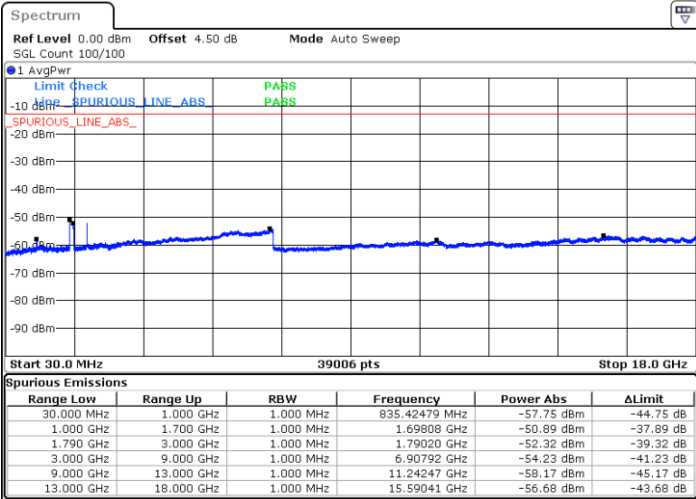
Middle Channel / 1RB



Date: 3.FEB.2021 07:37:01

Date: 3.FEB.2021 07:40:46

Highest Channel / 1RB



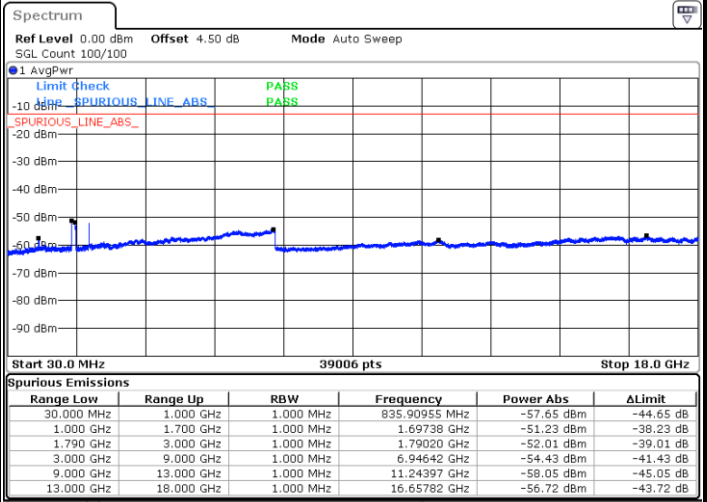
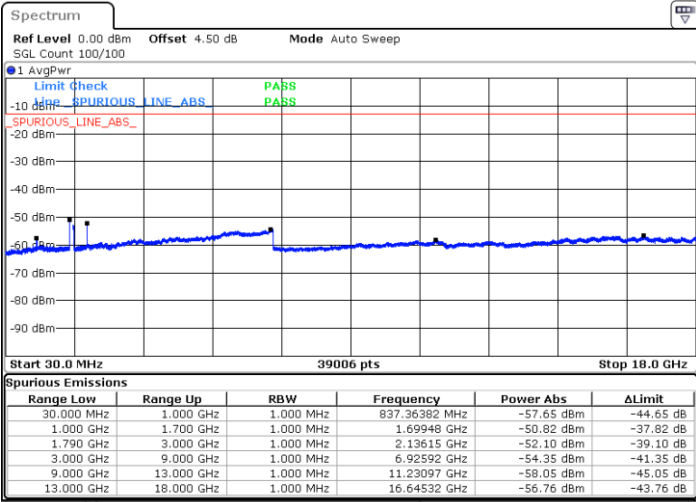
Date: 3.FEB.2021 07:45:13



FR1 n66+5A / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

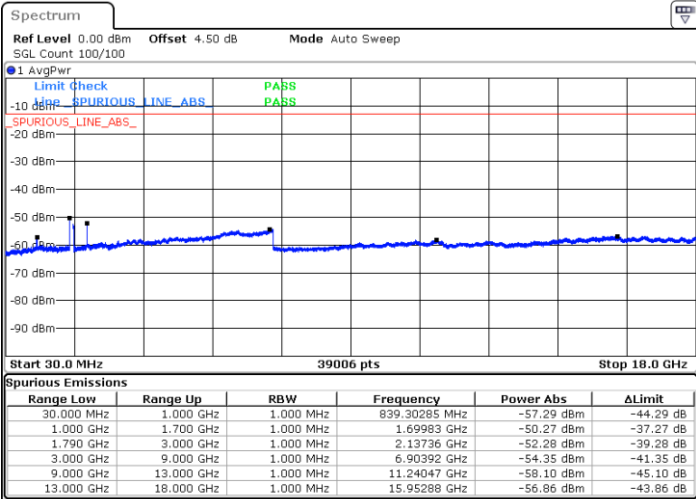
Middle Channel / 1RB



Date: 3.FEB.2021 07:38:54

Date: 3.FEB.2021 07:42:45

Highest Channel / 1RB



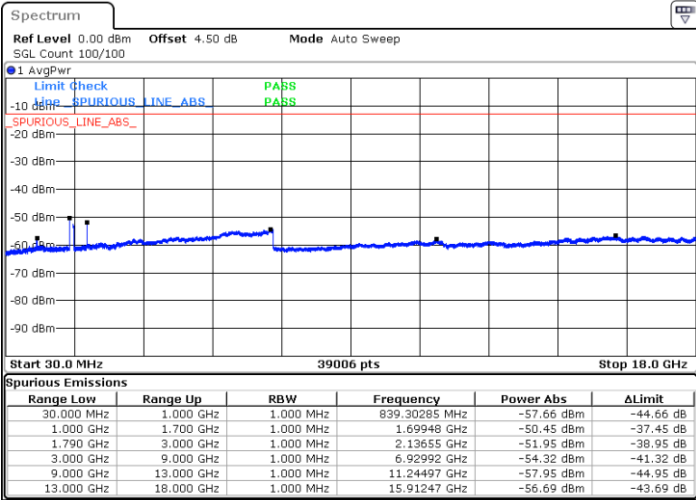
Date: 3.FEB.2021 07:46:53



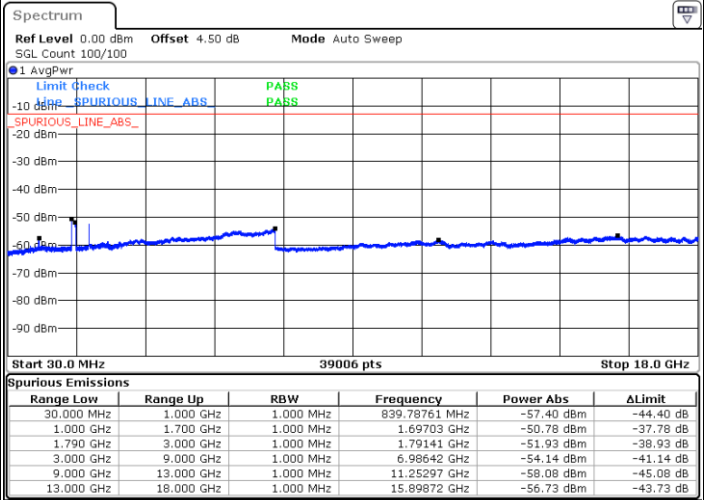
FR1 n66+5A / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

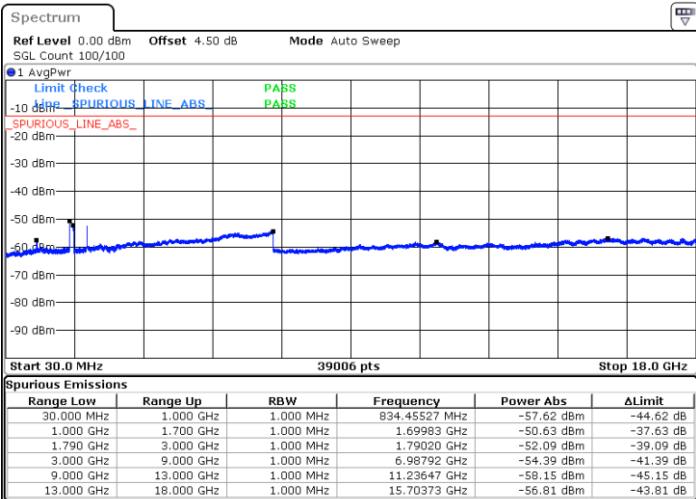


Date: 3.FEB.2021 07:21:45



Date: 3.FEB.2021 07:25:21

Highest Channel / 1RB



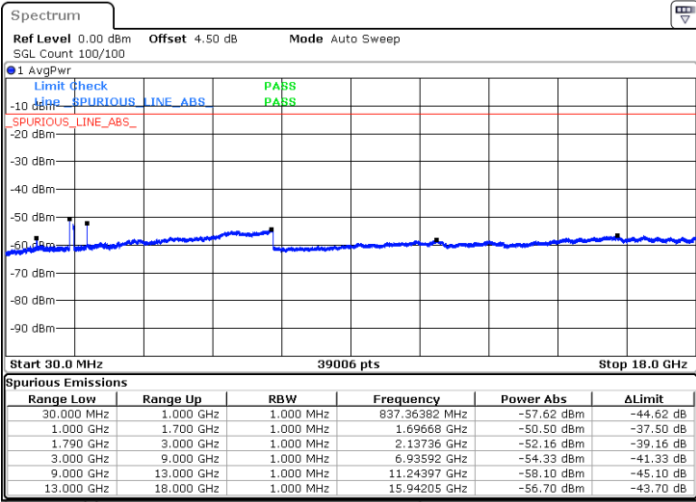
Date: 3.FEB.2021 07:30:42



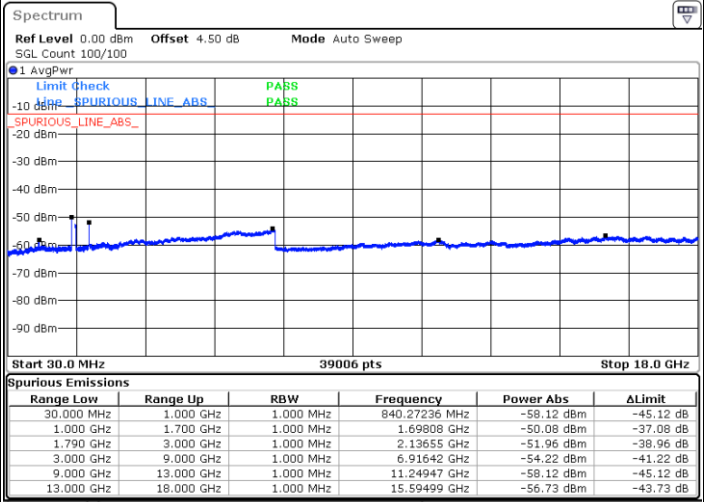
FR1 n66+5A / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

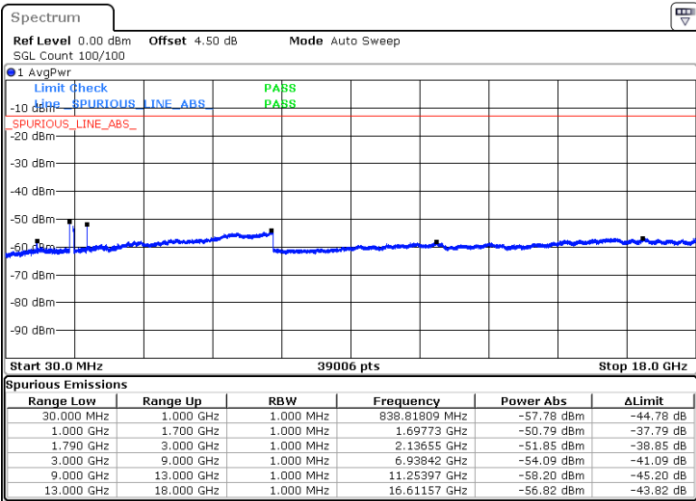


Date: 3.FEB.2021 07:23:44



Date: 3.FEB.2021 07:27:38

Highest Channel / 1RB



Date: 3.FEB.2021 07:32:54



Frequency Stability

Test Conditions		NR n66+5A (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0015	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.45 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



SA

Peak-to-Average Ratio

Mode	FR1 n66 / 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	3.83	3.62	4.90	5.16	PASS
Middle CH	4.06	3.59	6.09	5.25	
Highest CH	4.03	3.51	5.33	5.28	



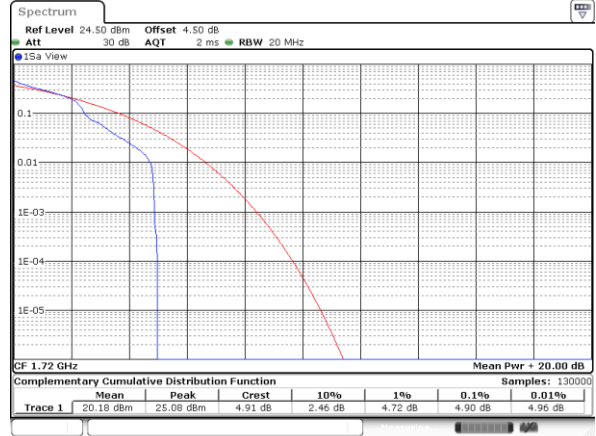
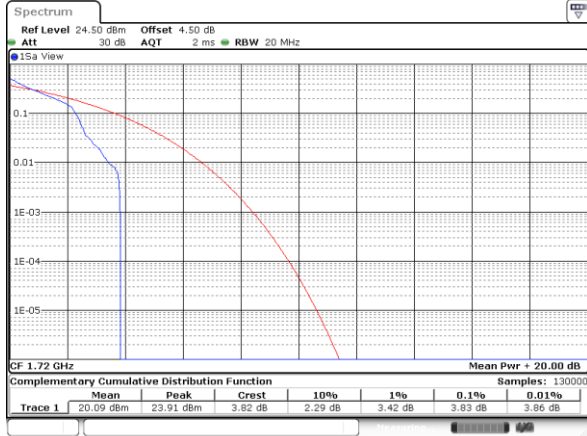
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / 1RB

Lowest Channel / 1RB

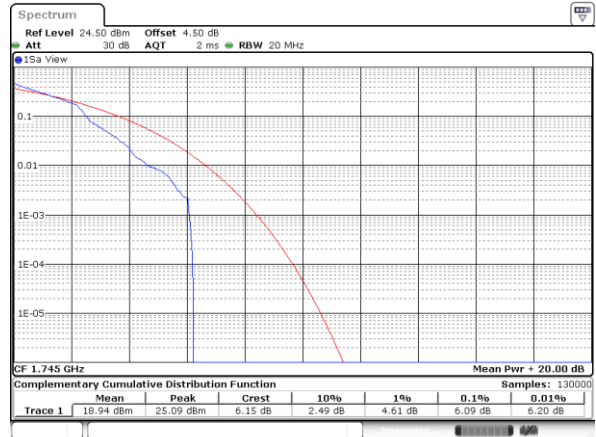
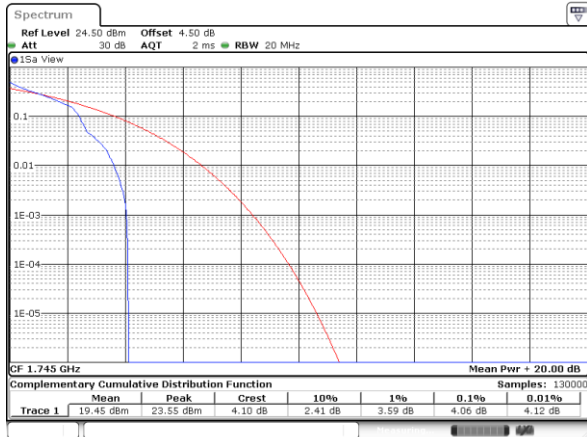


Date: 9.FEB.2021 19:36:39

Date: 9.FEB.2021 19:37:12

Middle Channel / 1 RB

Middle Channel / 1 RB

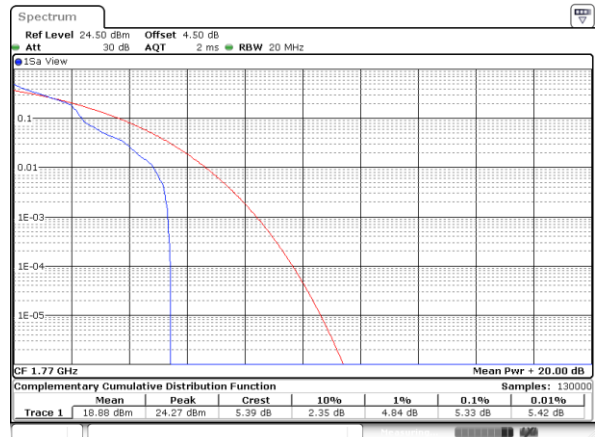
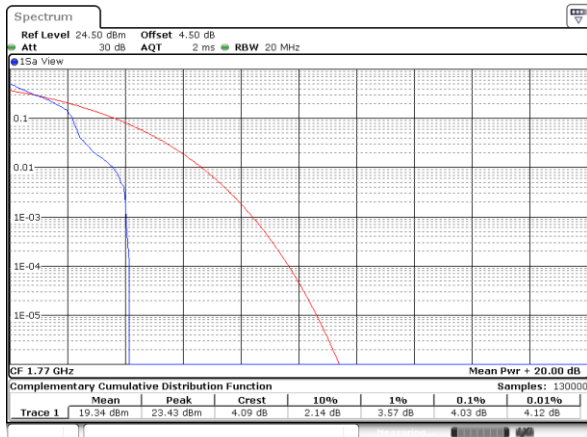


Date: 9.FEB.2021 19:41:48

Date: 9.FEB.2021 19:42:03

Highest Channel / 1 RB

Highest Channel / 1 RB



Date: 9.FEB.2021 19:44:45

Date: 9.FEB.2021 19:44:32



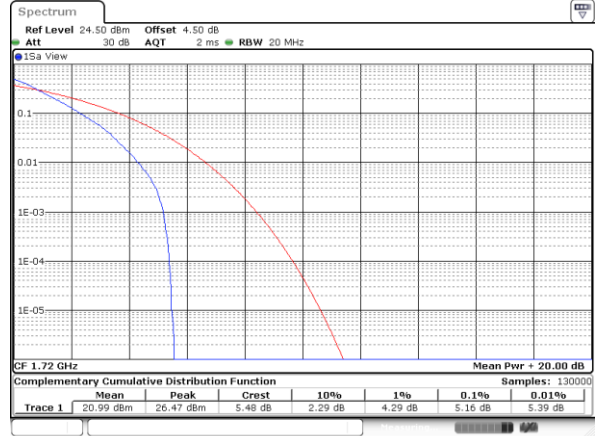
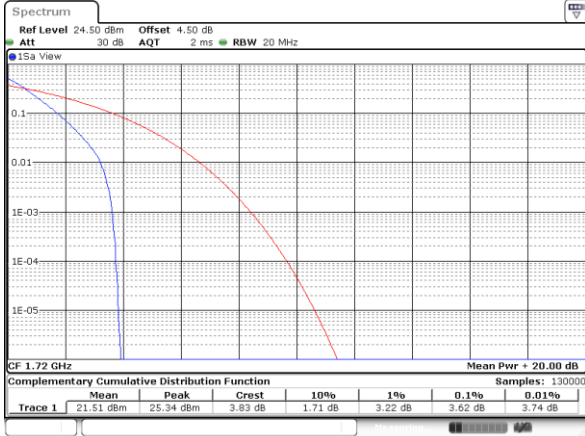
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

Lowest Channel / Full RB

Lowest Channel / Full RB

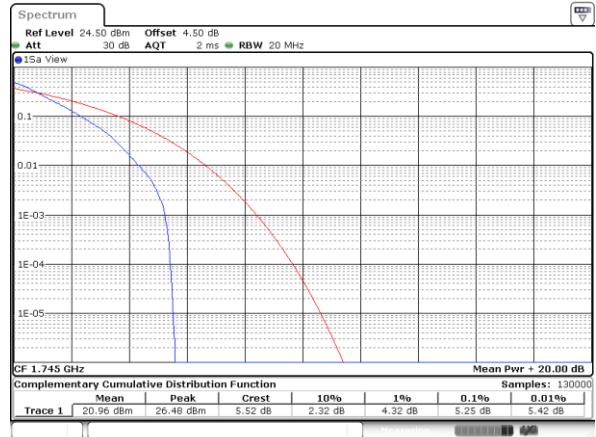
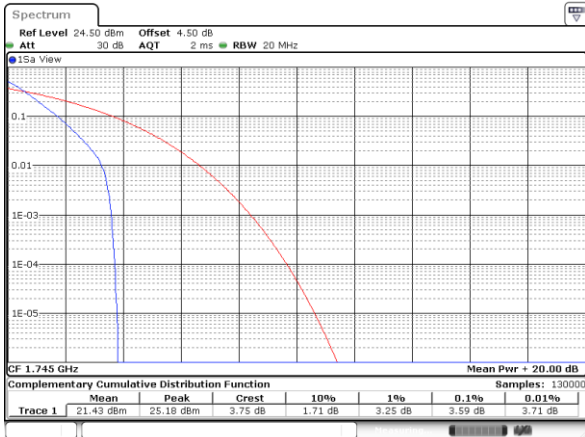


Date: 9.FEB.2021 19:38:42

Date: 9.FEB.2021 19:38:55

Middle Channel / Full RB

Middle Channel / Full RB

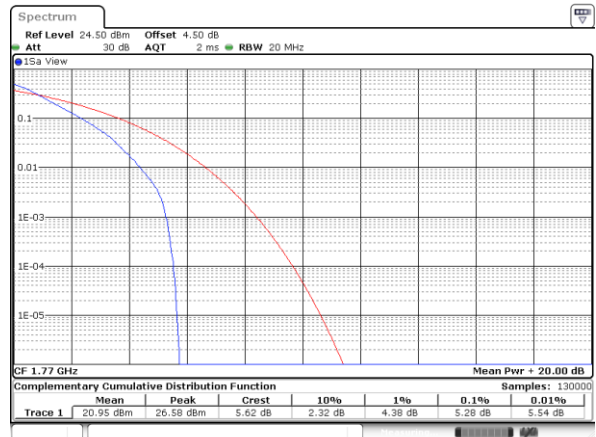
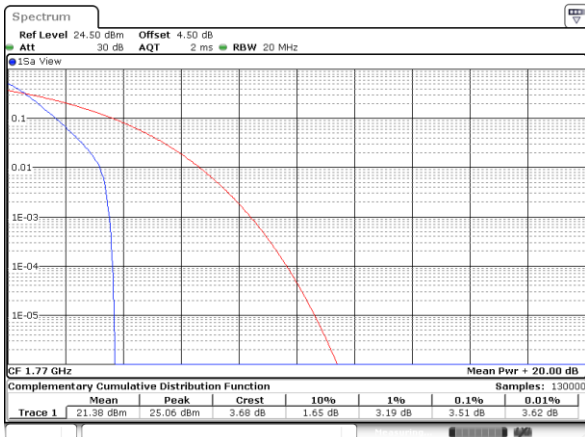


Date: 9.FEB.2021 19:41:29

Date: 9.FEB.2021 19:41:13

Highest Channel / Full RB

Highest Channel / Full RB



Date: 9.FEB.2021 19:45:41

Date: 9.FEB.2021 19:46:27



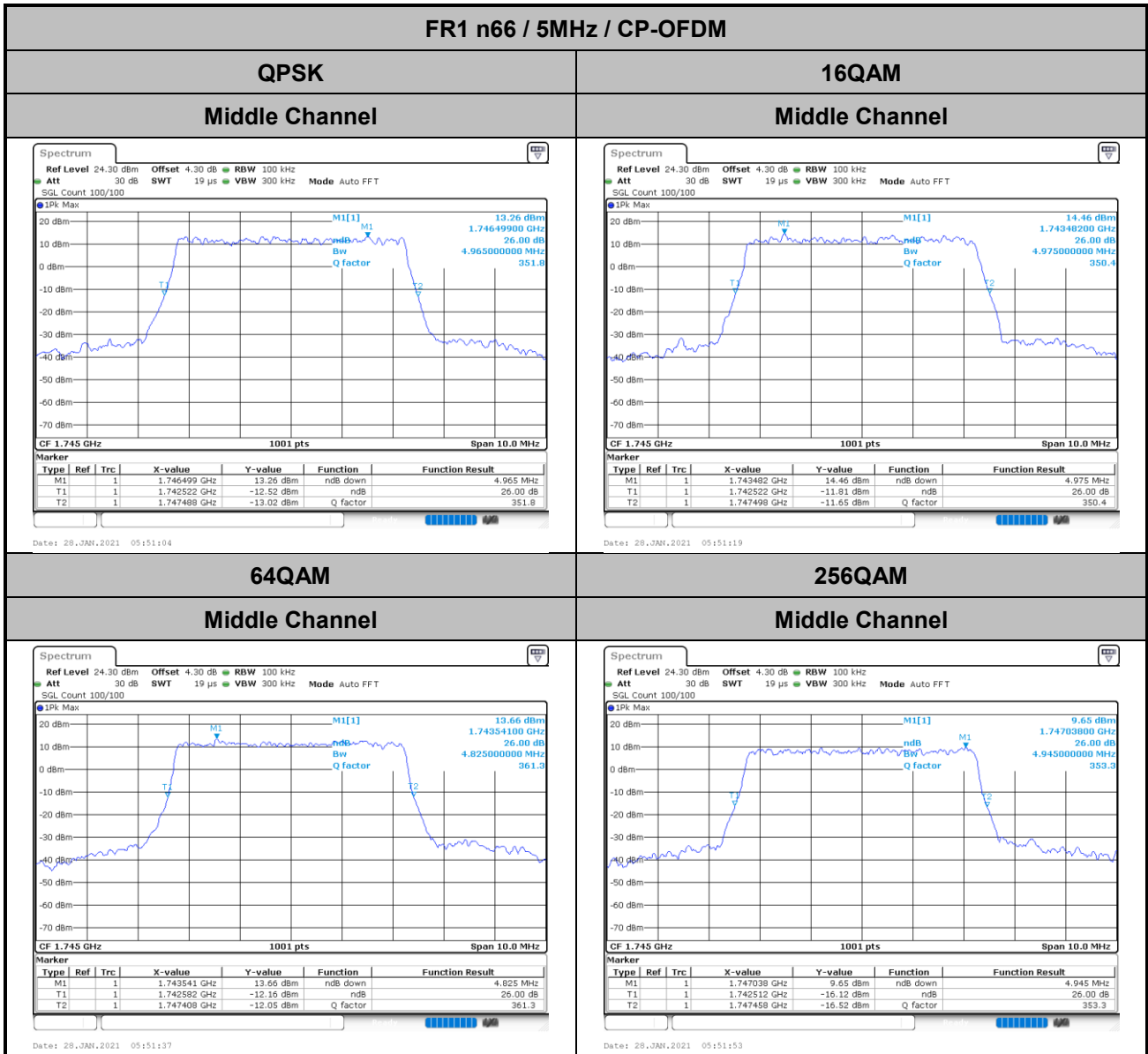
26dB Bandwidth

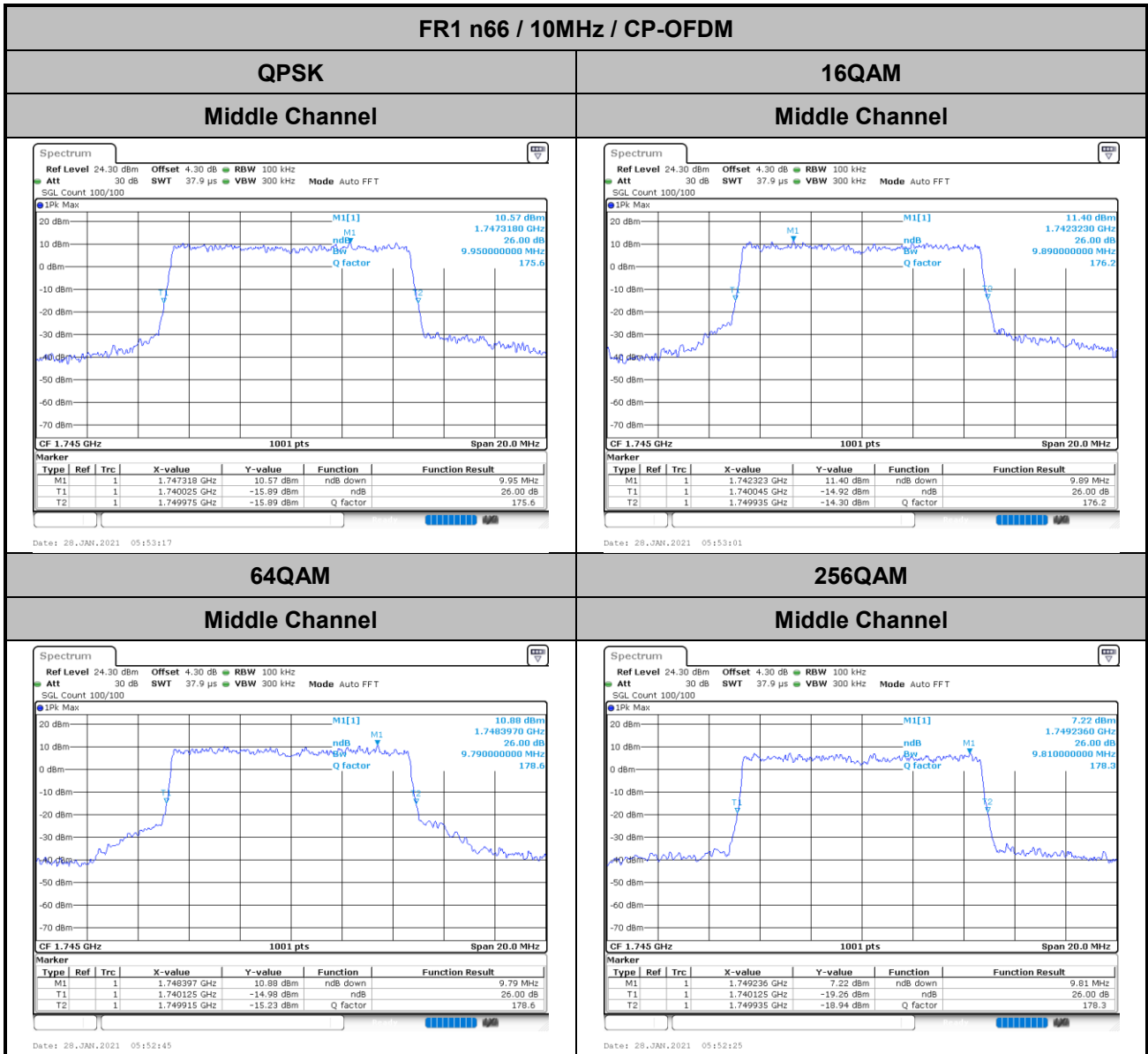
Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM			
BW	5MHz	5MHz	5MHz	5MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.96	4.97	4.83	4.95

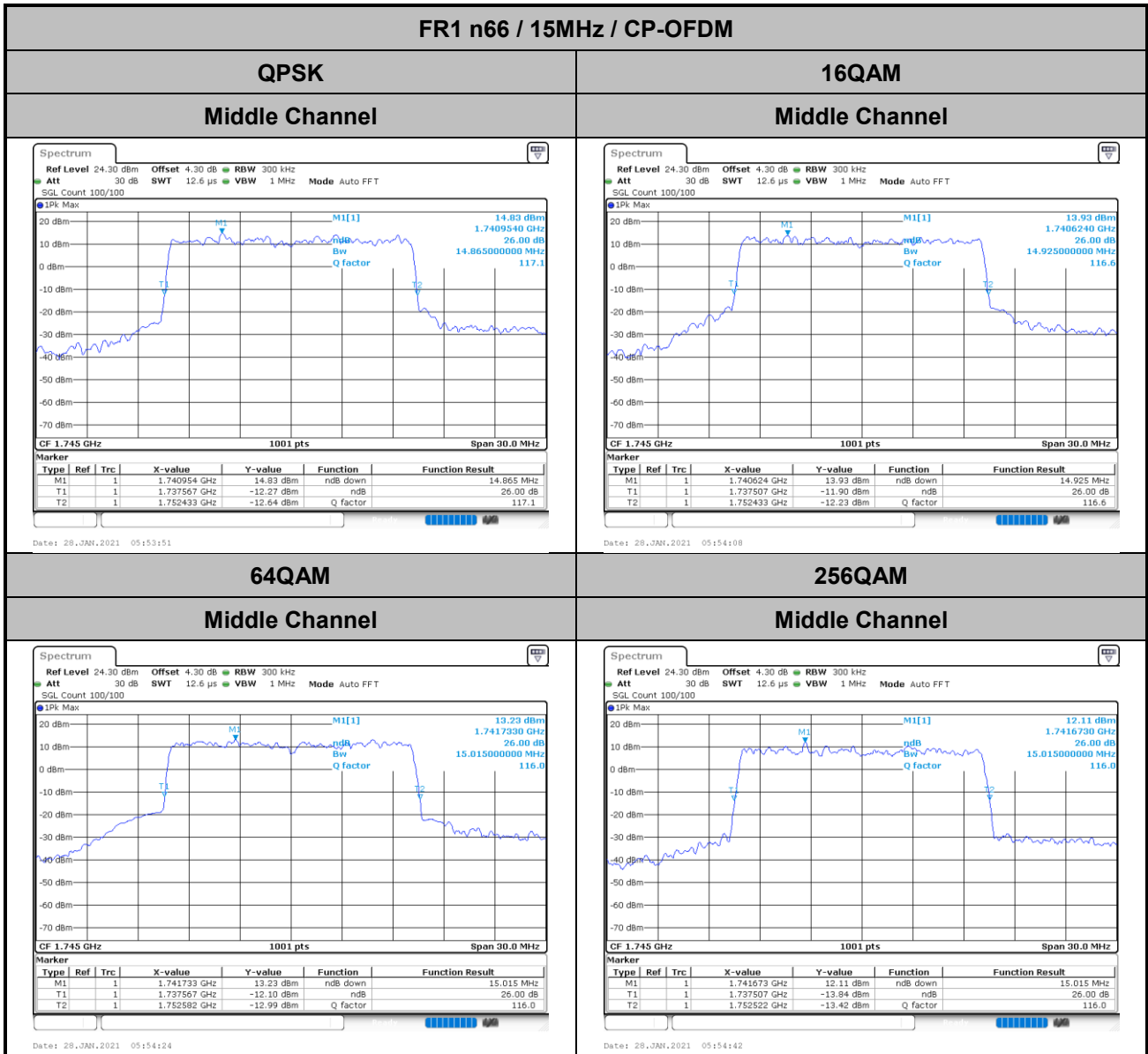
Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM			
BW	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.95	9.89	9.79	9.81

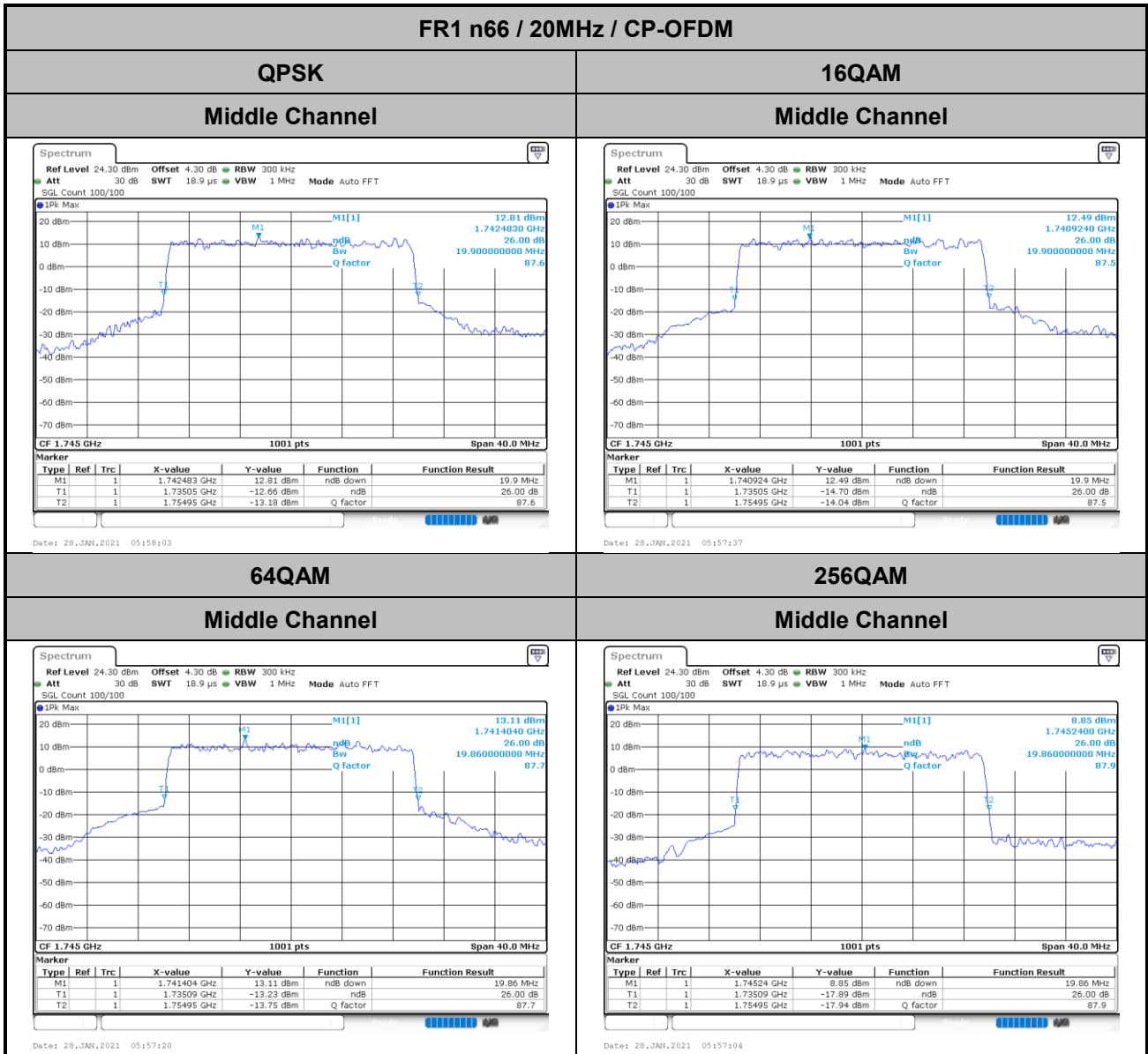
Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM			
BW	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.87	14.93	15.02	15.02

Mode	FR1 n66 : 26dB BW(MHz) / CP-OFDM			
BW	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	19.90	19.90	19.86	19.86











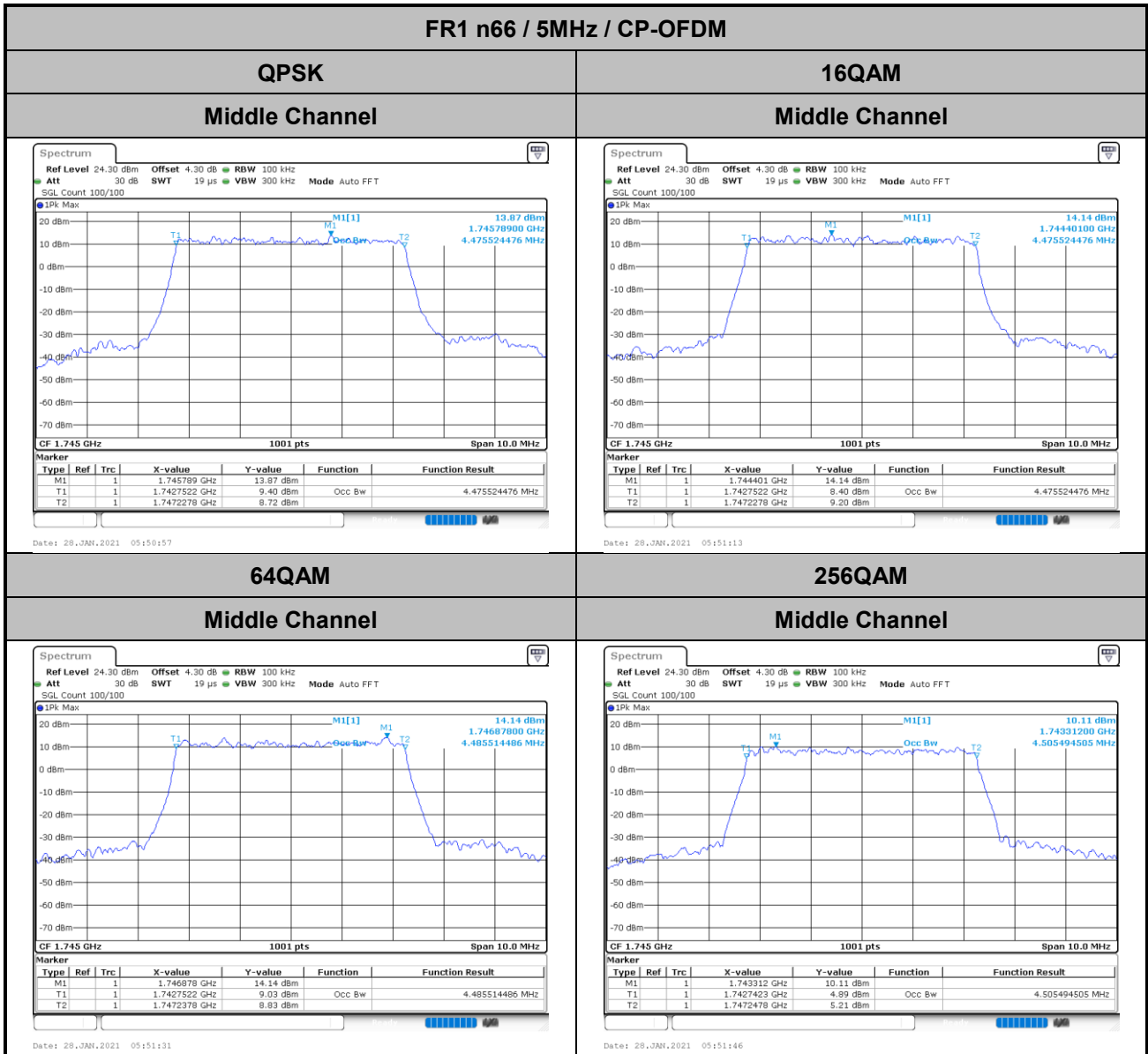
Occupied Bandwidth

Mode	FR1 n66 : OBW(MHz) / CP-OFDM			
BW	5MHz	5MHz	5MHz	5MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	4.48	4.48	4.49	4.51

Mode	FR1 n66 : OBW(MHz) / CP-OFDM			
BW	10MHz	10MHz	10MHz	10MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	9.29	9.27	9.31	9.31

Mode	FR1 n66 : OBW(MHz) / CP-OFDM			
BW	15MHz	15MHz	15MHz	15MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	14.15	14.18	14.15	14.18

Mode	FR1 n66 : OBW(MHz) / CP-OFDM			
BW	20MHz	20MHz	20MHz	20MHz
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.98	18.90	18.94	19.02





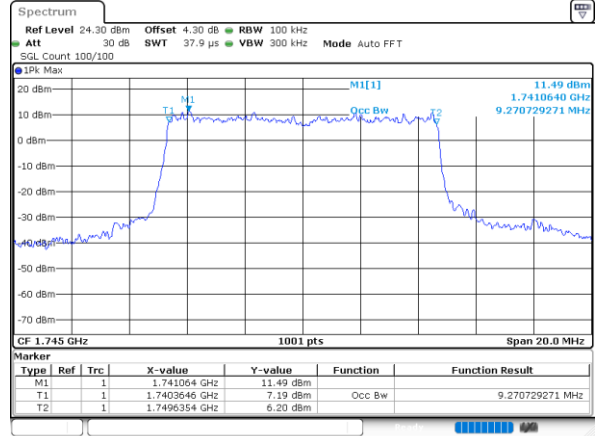
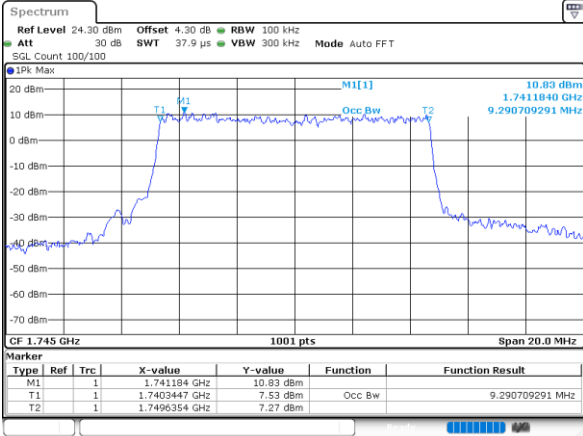
FR1 n66 / 10MHz / CP-OFDM

QPSK

16QAM

Middle Channel

Middle Channel



Date: 28_JAN.2021 05:53:12

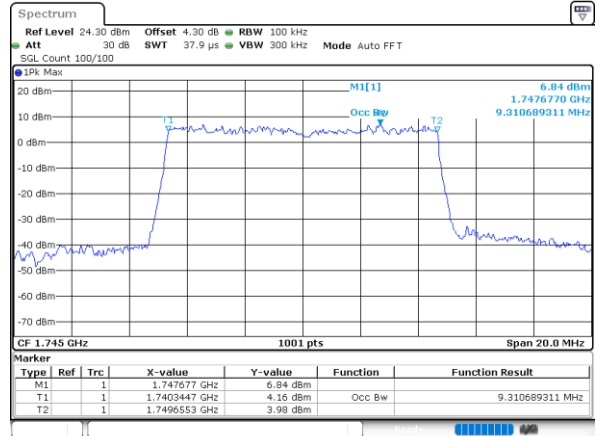
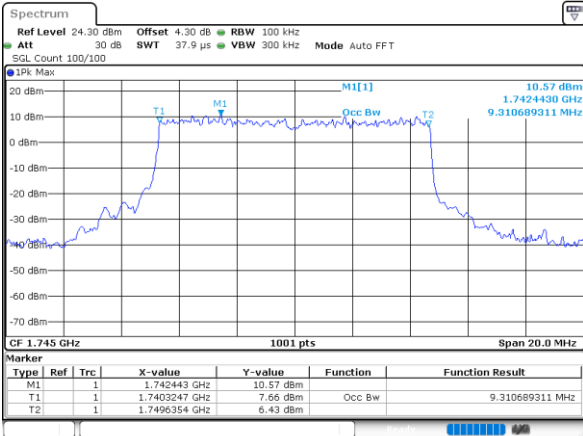
Date: 28_JAN.2021 05:52:56

64QAM

256QAM

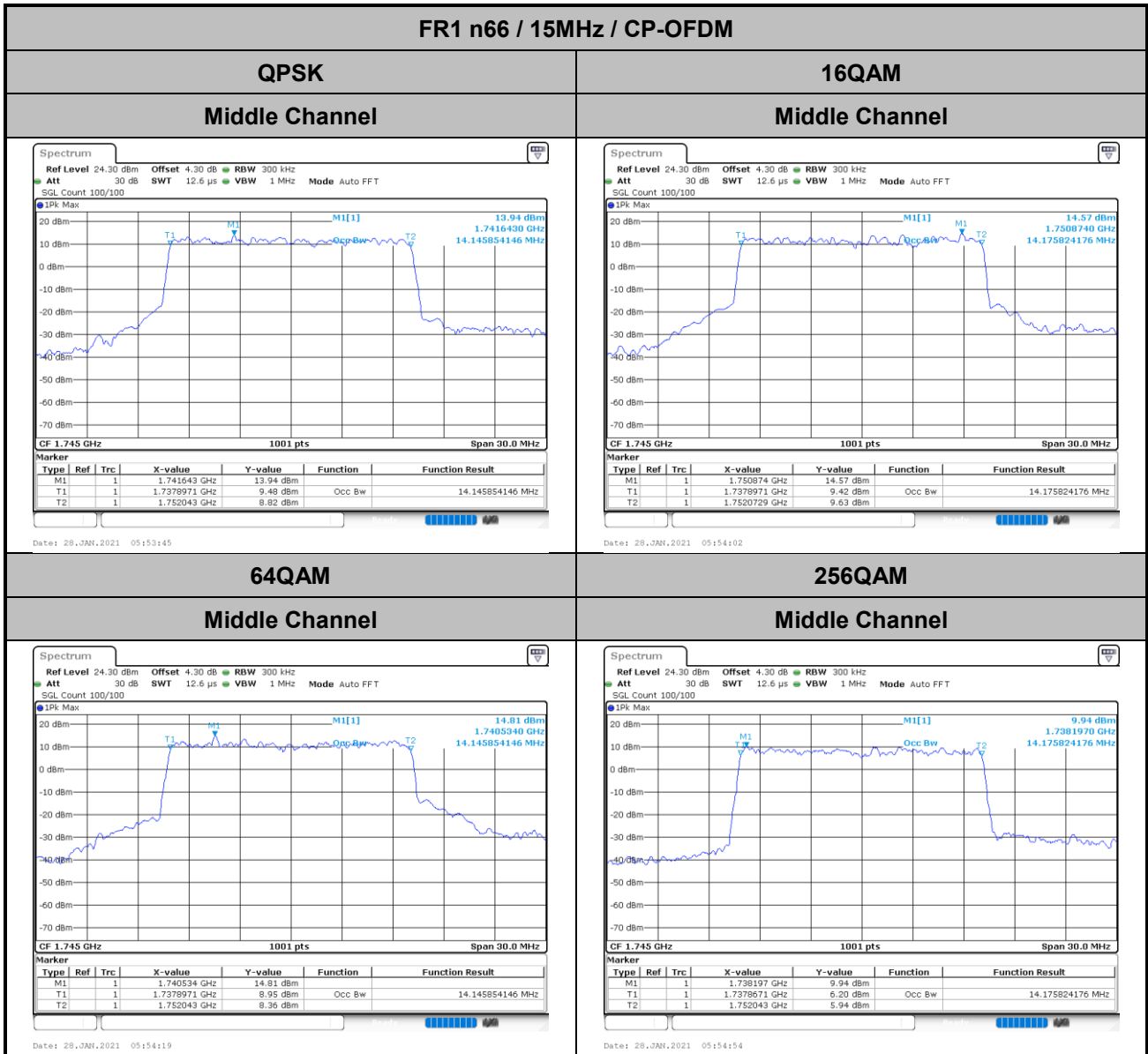
Middle Channel

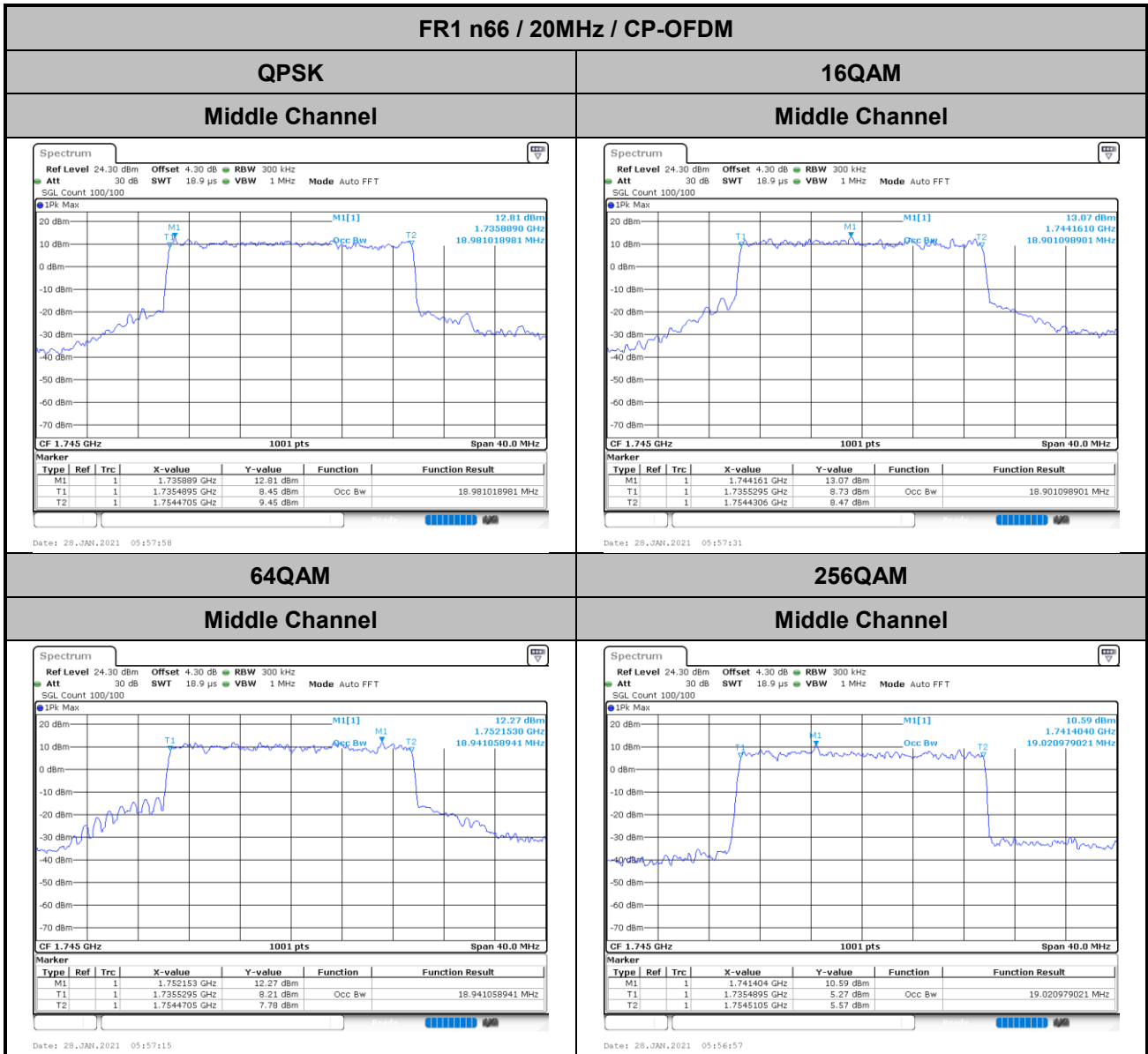
Middle Channel



Date: 28_JAN.2021 05:52:40

Date: 28_JAN.2021 05:52:17





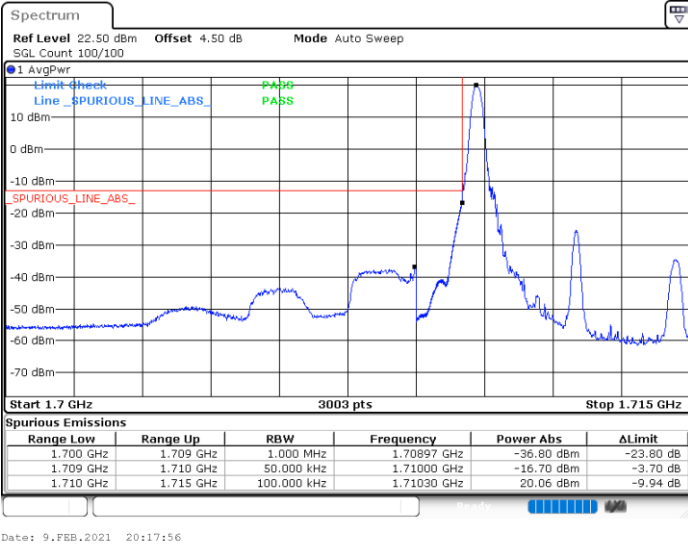


Conducted Band Edge

FR1 n66 / 5MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

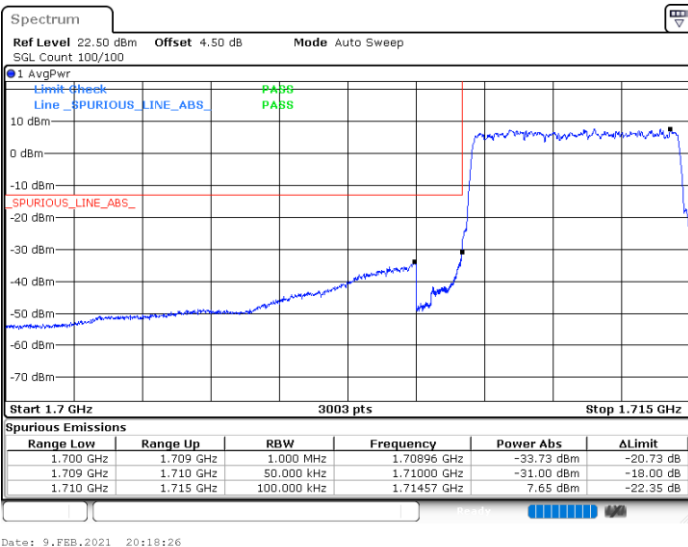
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



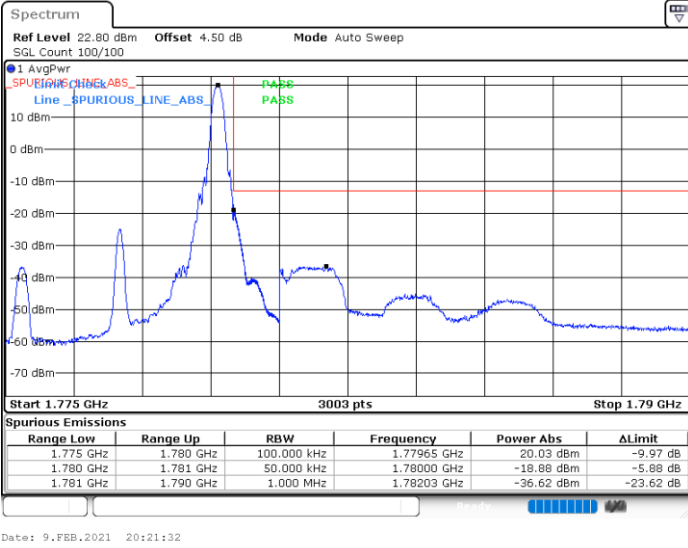
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FR1 n66 / 5MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

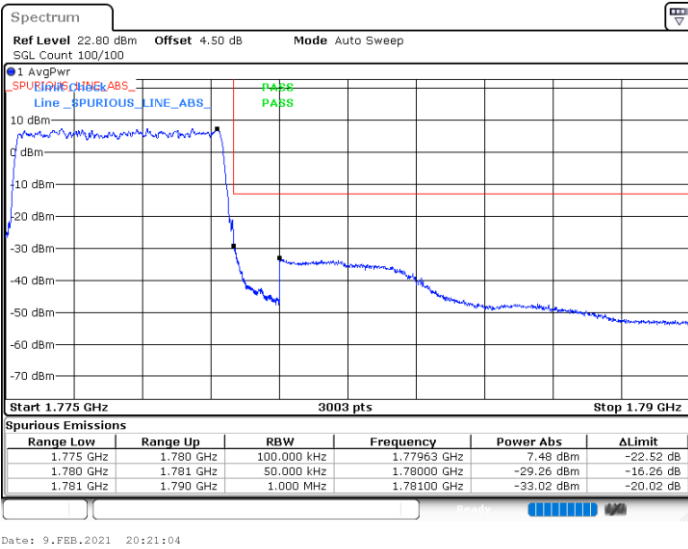
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



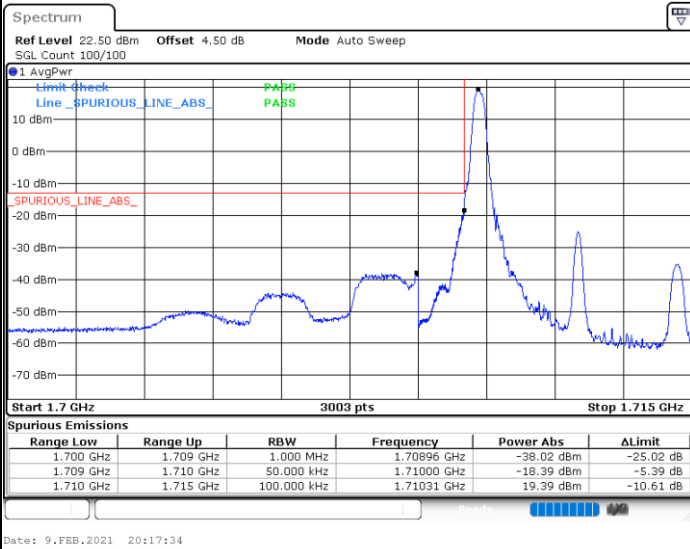
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FR1 n66 / 5MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

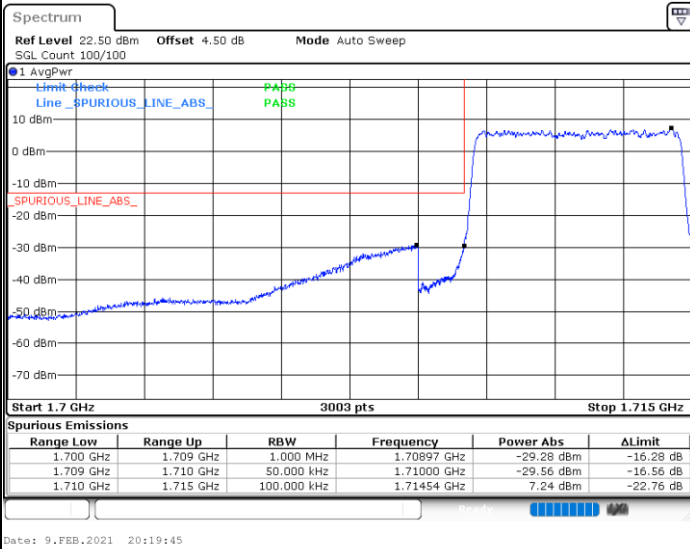
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



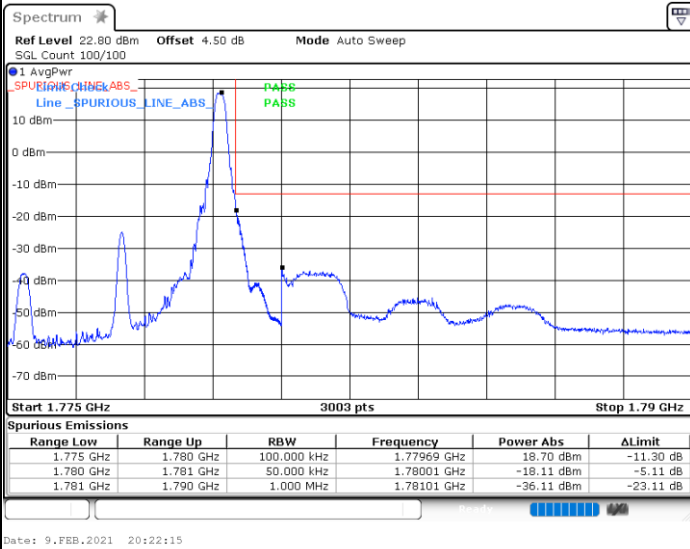
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FR1 n66 / 5MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

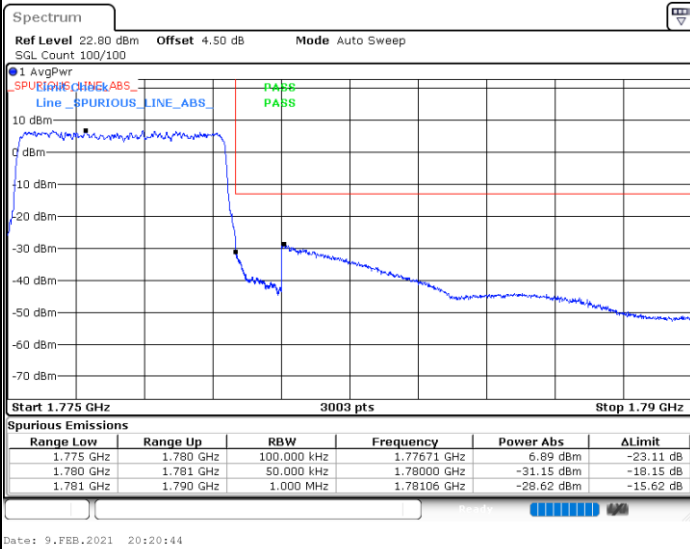
Channel Power < -13dBm Pass



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Highest Band Edge / Full RB

Channel Power < -13dBm Pass

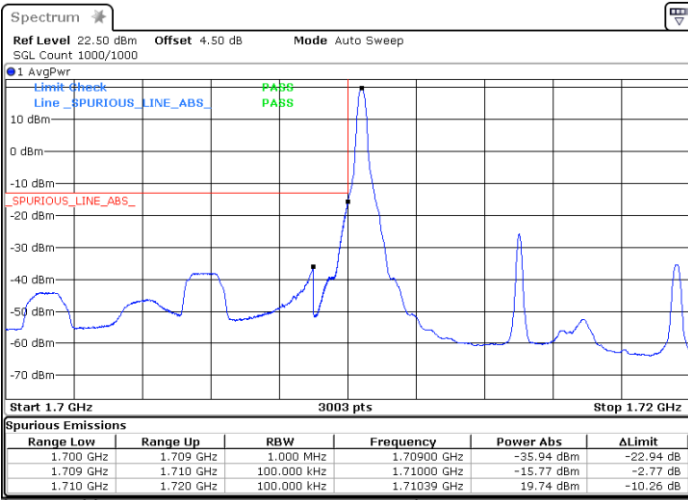


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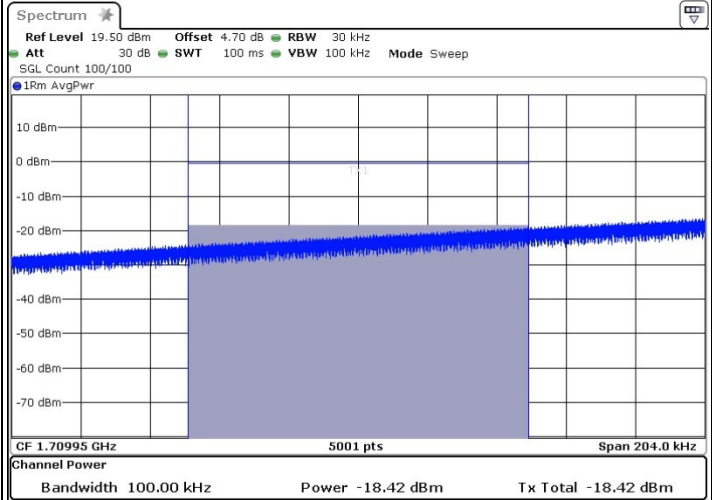
FR1 n66 / 10MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB



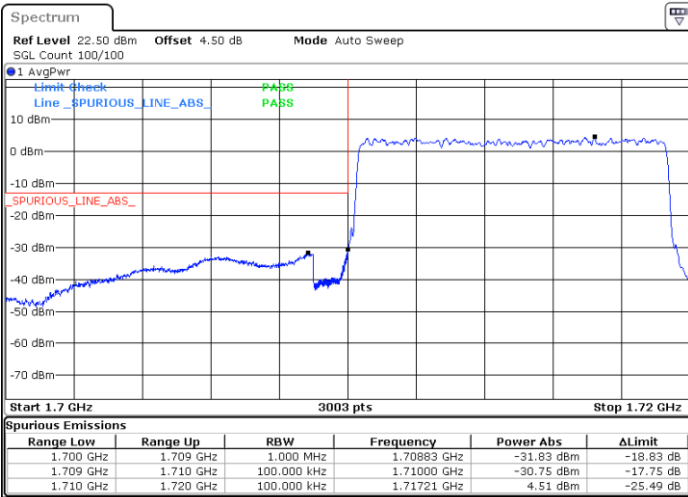
Date: 9.FEB.2021 20:05:03

Channel Power < -13dBm Pass



Date: 9.FEB.2021 20:07:19

Lowest Band Edge / Full RB



Date: 9.FEB.2021 20:07:40

Channel Power < -13dBm Pass

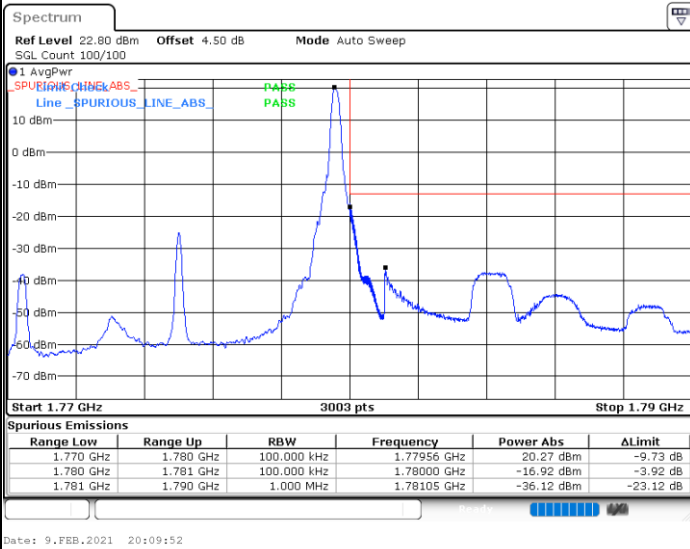
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FR1 n66 / 10MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

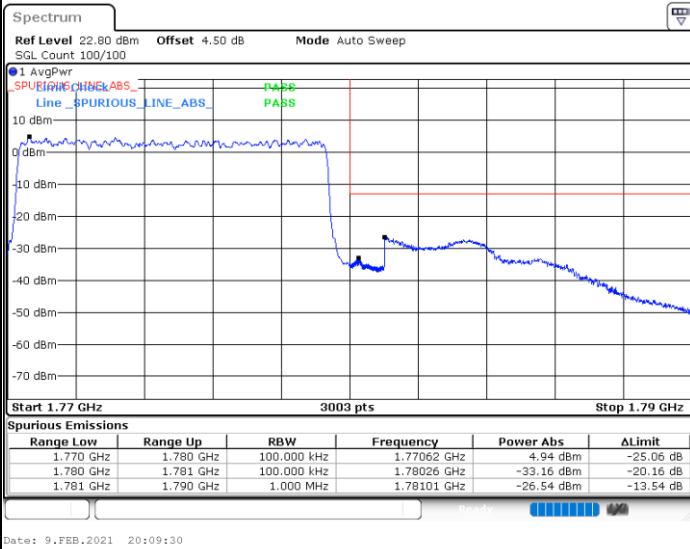
Channel Power < -13dBm Pass



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Highest Band Edge / Full RB

Channel Power < -13dBm Pass



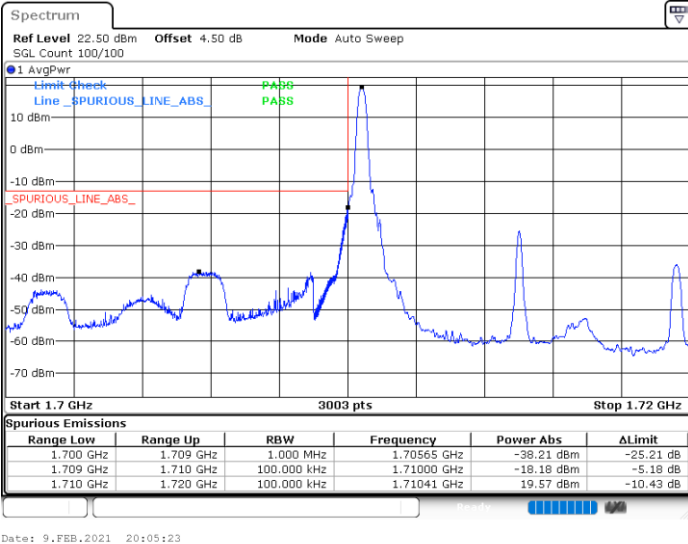
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FR1 n66 / 10MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

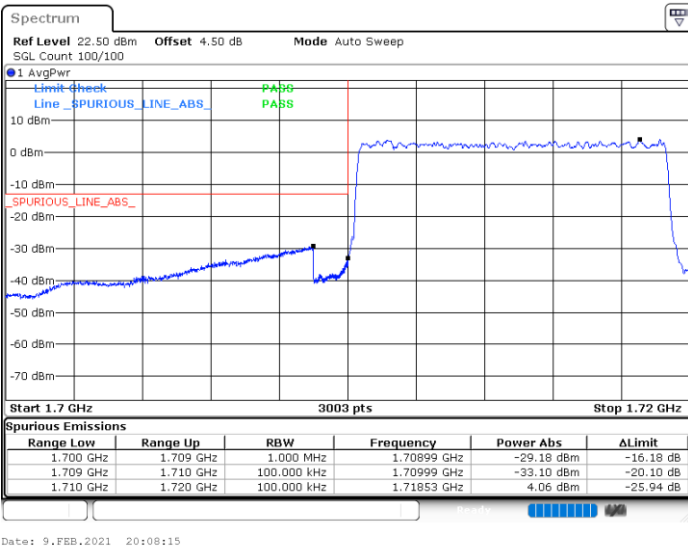
Channel Power < -13dBm Pass



/

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



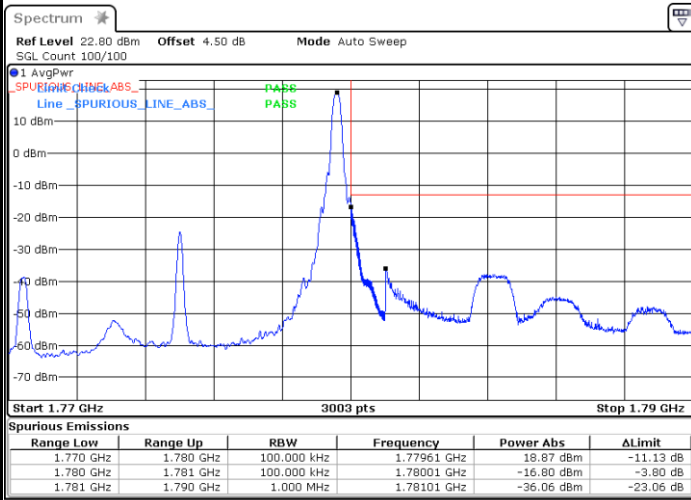
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FR1 n66 / 10MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

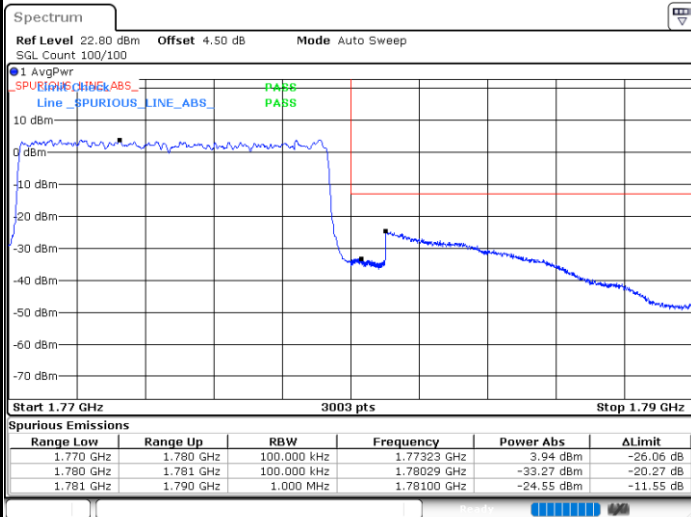
Channel Power < -13dBm Pass



Date: 9.FEB.2021 20:10:15

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



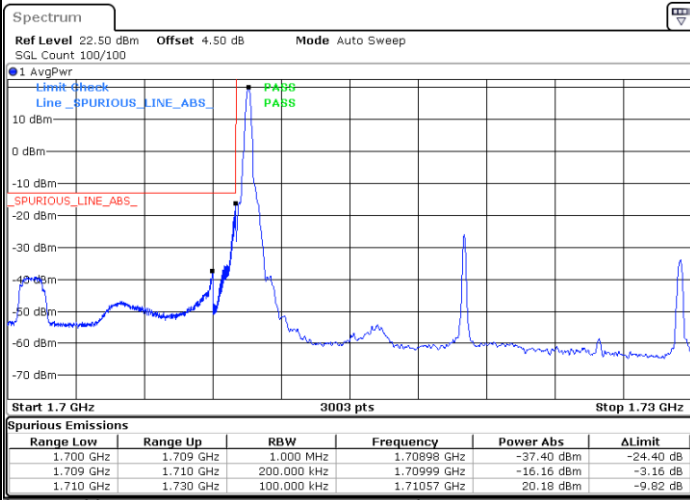
Date: 9.FEB.2021 20:09:14



FR1 n66 / 20MHz / DFT-S OFDM BPSK

Lowest Band Edge / 1 RB

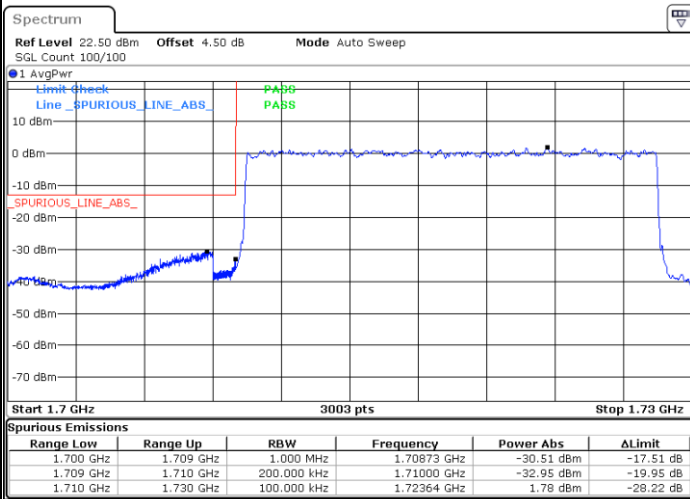
Channel Power < -13dBm Pass



Date: 4.MAR.2021 02:39:12

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



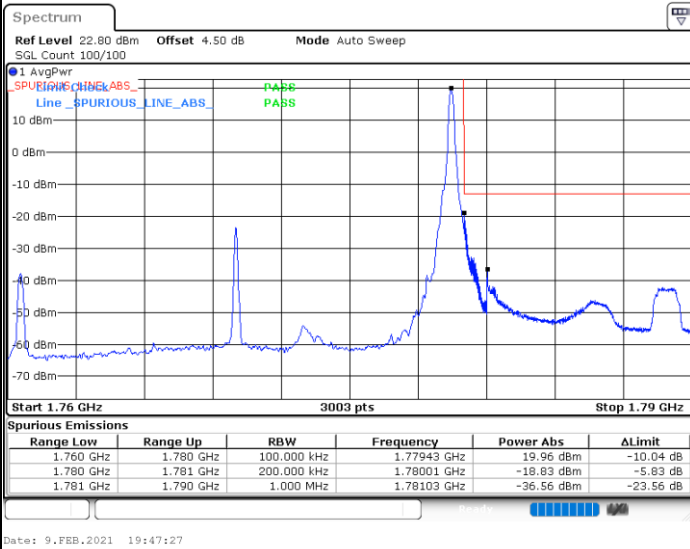
Date: 9.FEB.2021 19:38:36



FR1 n66 / 20MHz / DFT-S OFDM BPSK

Highest Band Edge / 1 RB

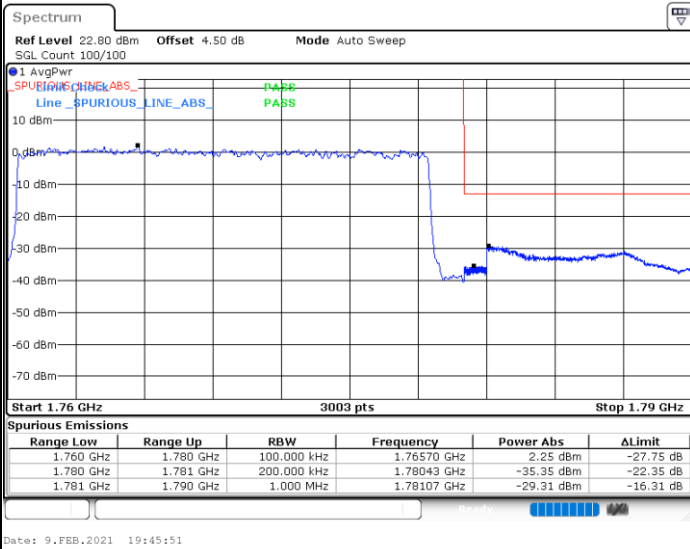
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



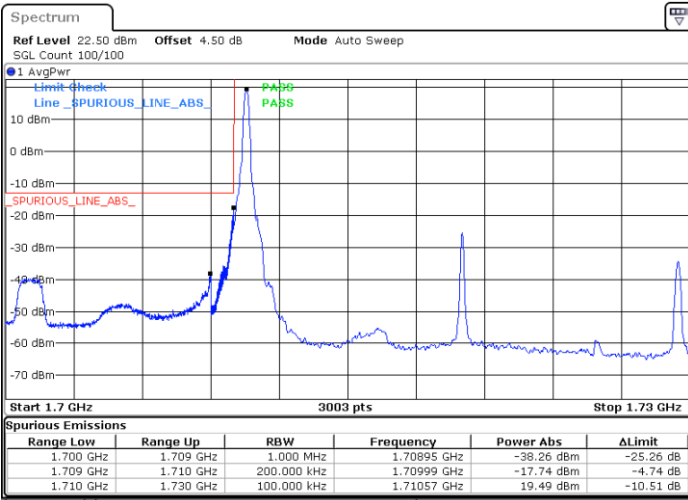
/



FR1 n66 / 20MHz / DFT-S OFDM QPSK

Lowest Band Edge / 1 RB

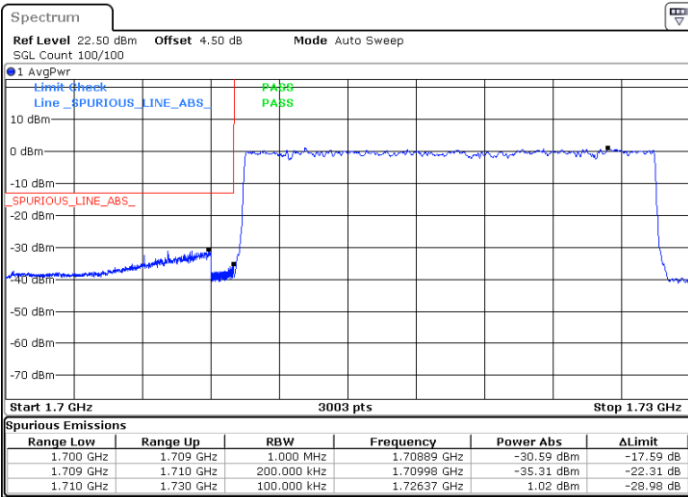
Channel Power < -13dBm Pass



Date: 4.MAR.2021 02:38:58

Lowest Band Edge / Full RB

Channel Power < -13dBm Pass



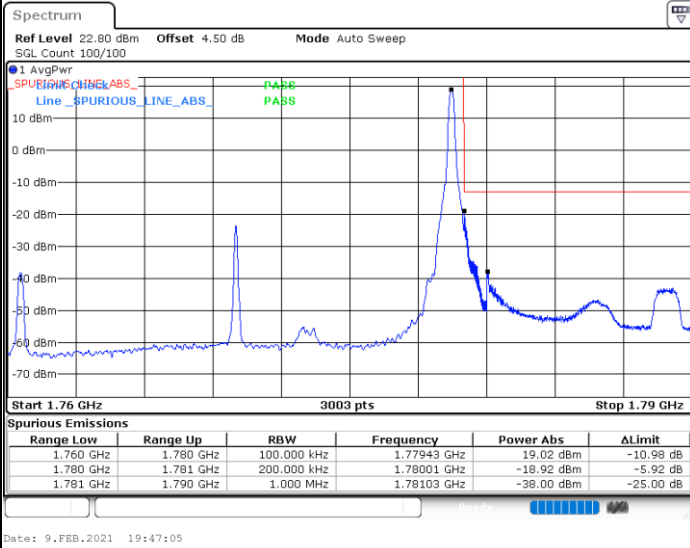
Date: 9.FEB.2021 19:39:05



FR1 n66 / 20MHz / DFT-S OFDM QPSK

Highest Band Edge / 1 RB

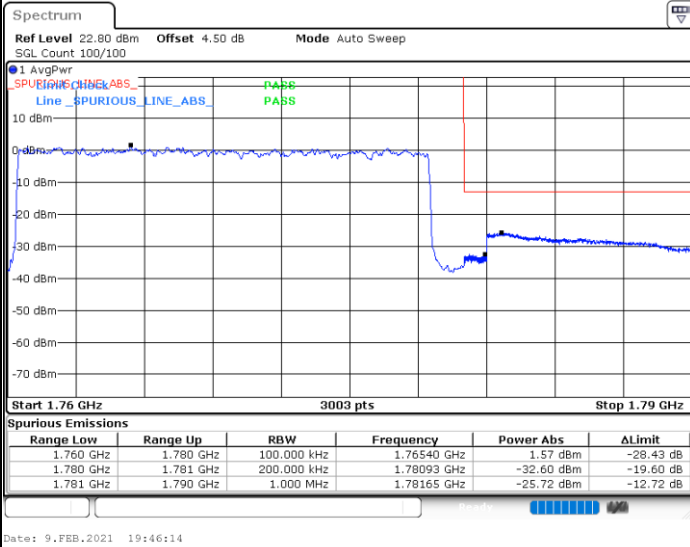
Channel Power < -13dBm Pass



/

Highest Band Edge / Full RB

Channel Power < -13dBm Pass



/

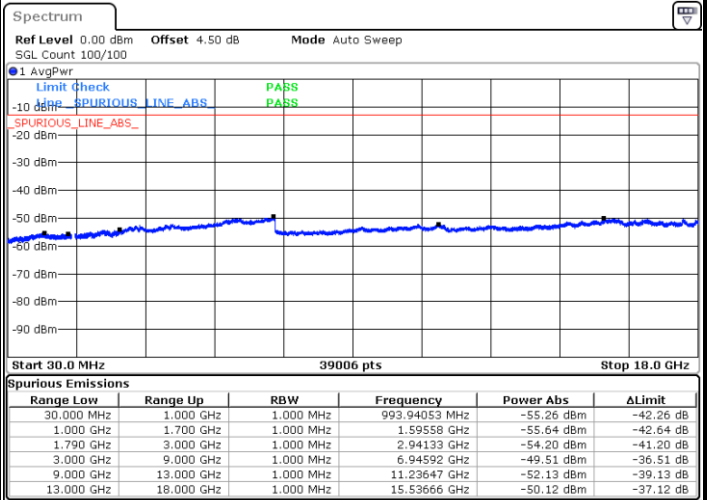
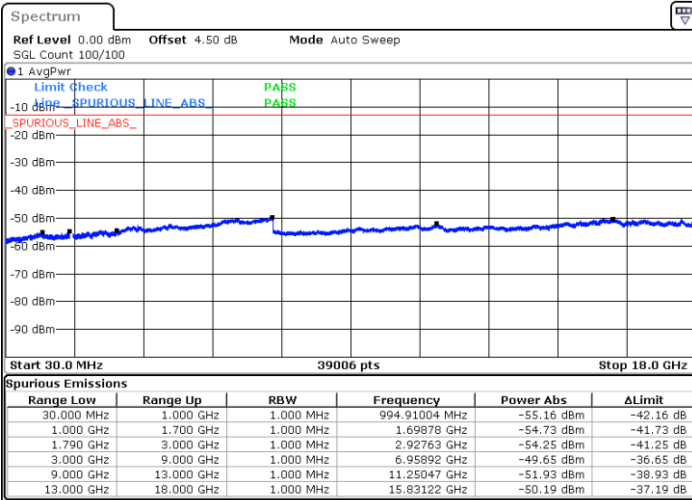


Conducted Spurious Emission

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

Lowest Channel / 1RB

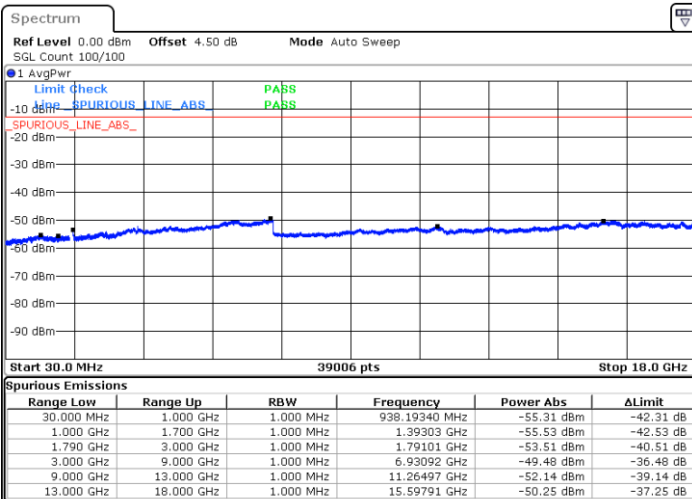
Middle Channel / 1RB



Date: 9.FEB.2021 20:16:25

Date: 9.FEB.2021 20:14:52

Highest Channel / 1RB



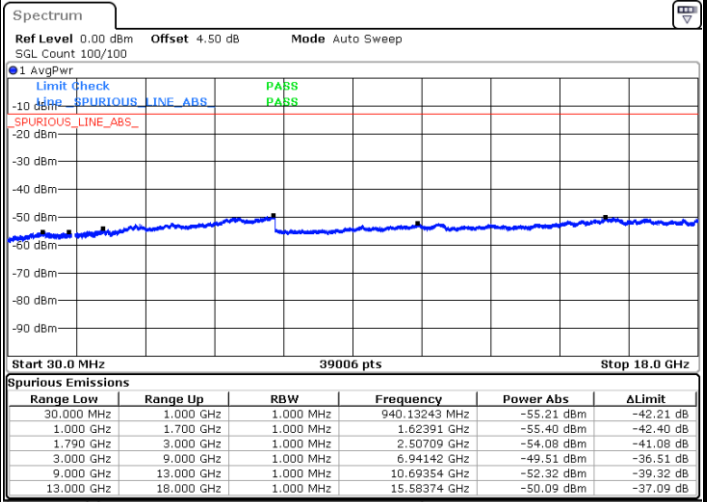
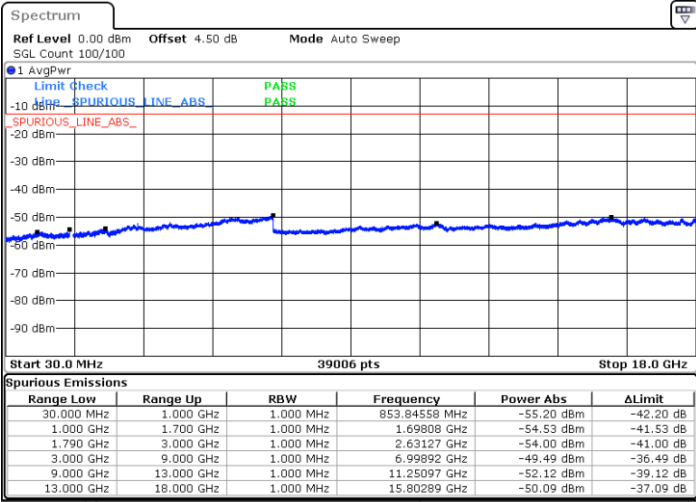
Date: 9.FEB.2021 20:24:33



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

Lowest Channel / 1RB

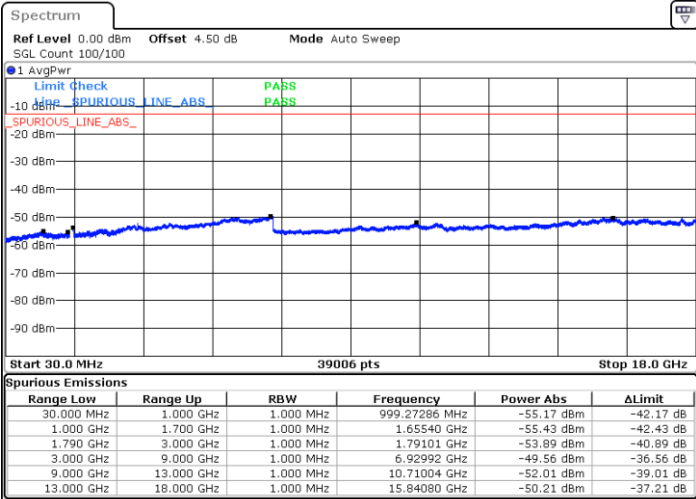
Middle Channel / 1RB



Date: 9.FEB.2021 20:17:04

Date: 9.FEB.2021 20:14:14

Highest Channel / 1RB



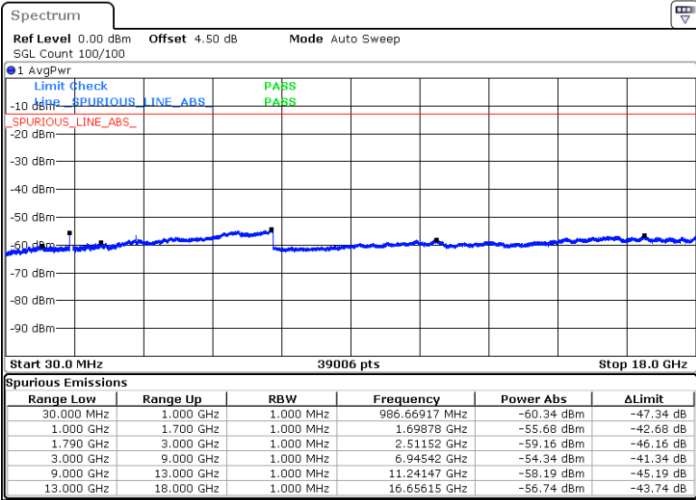
Date: 9.FEB.2021 20:23:02



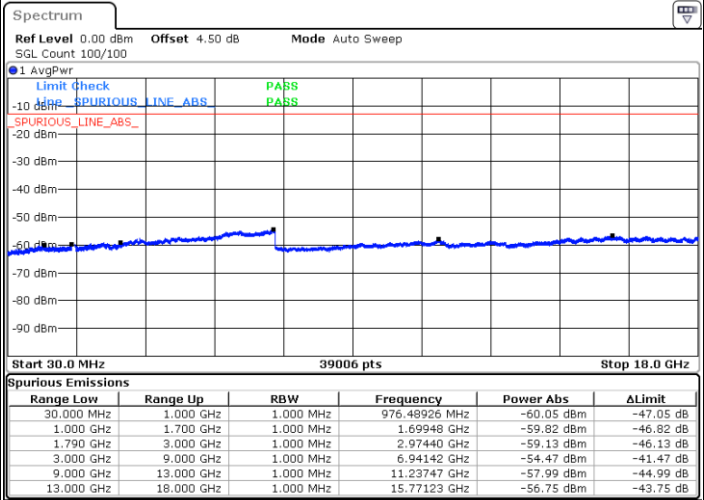
FR1 n66 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

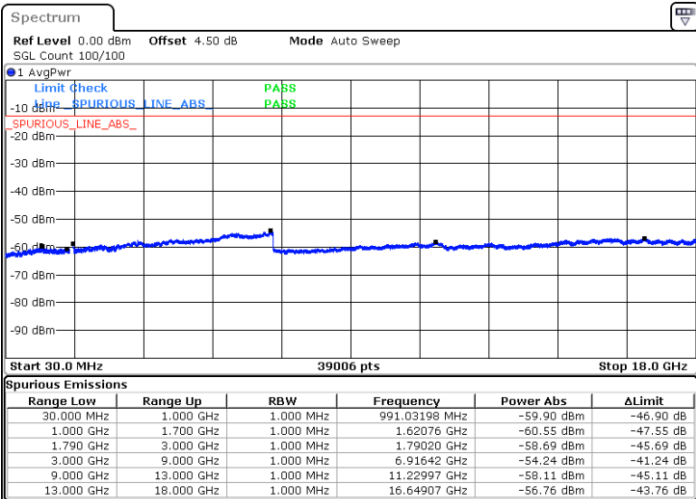


Date: 9.FEB.2021 20:03:48



Date: 9.FEB.2021 19:59:38

Highest Channel / 1RB



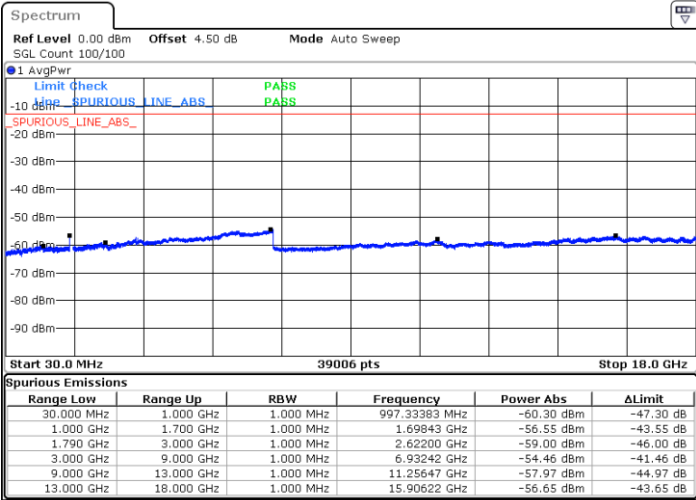
Date: 9.FEB.2021 20:12:42



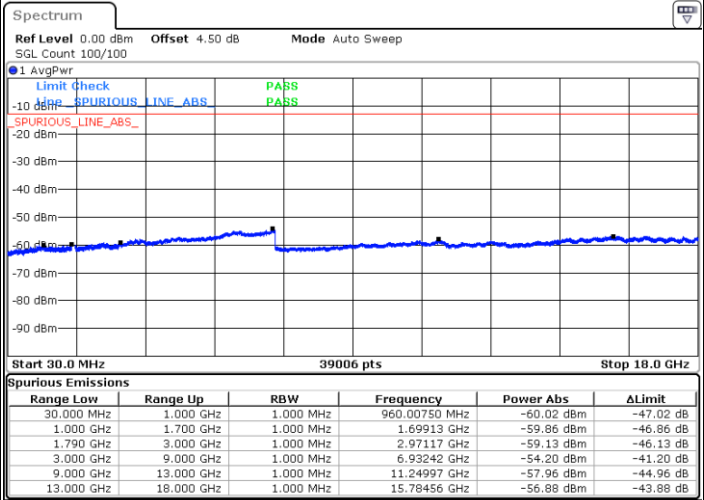
FR1 n66 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

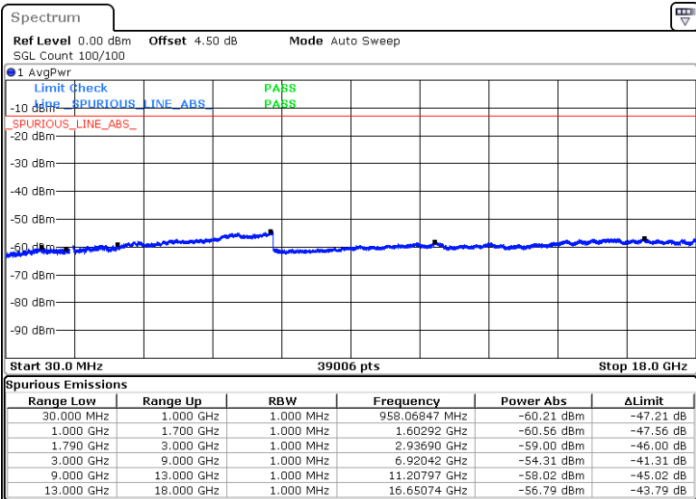


Date: 9.FEB.2021 20:03:04



Date: 9.FEB.2021 20:00:16

Highest Channel / 1RB



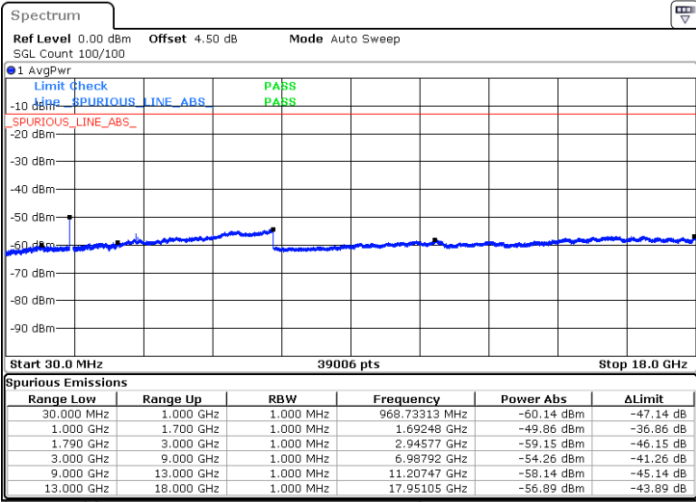
Date: 9.FEB.2021 20:11:03



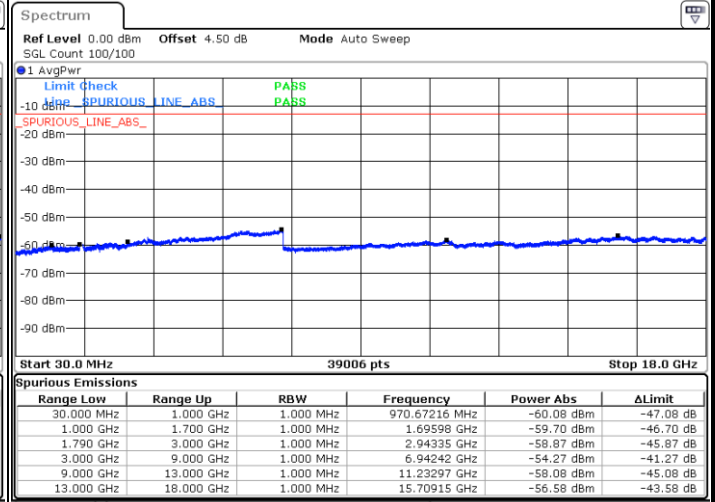
FR1 n66 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB

Middle Channel / 1RB

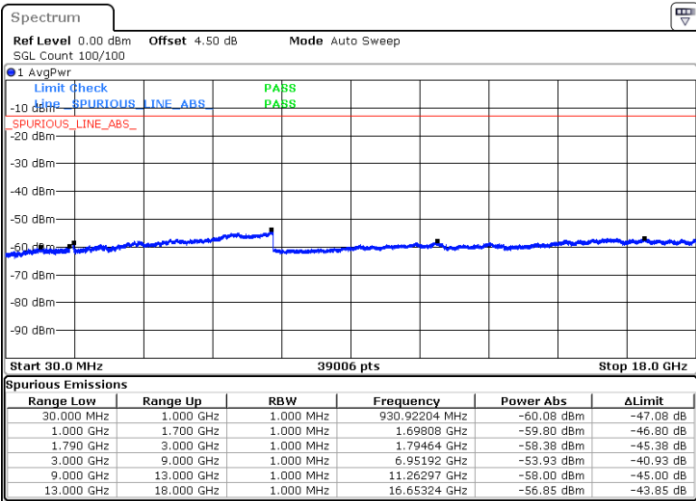


Date: 9.FEB.2021 19:35:13



Date: 9.FEB.2021 19:31:27

Highest Channel / 1RB



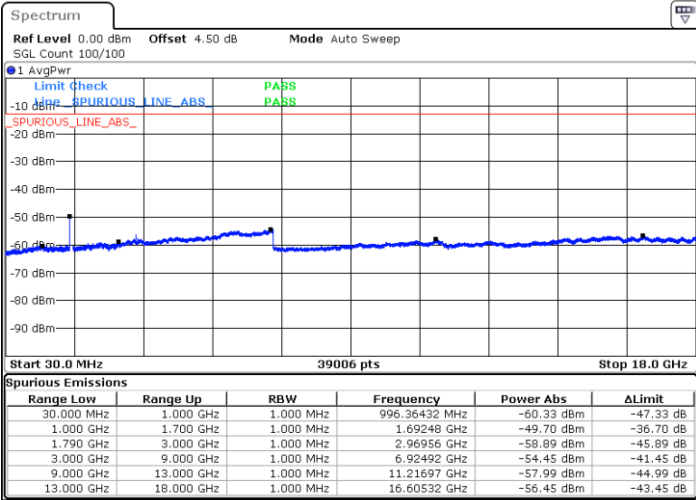
Date: 9.FEB.2021 19:45:21



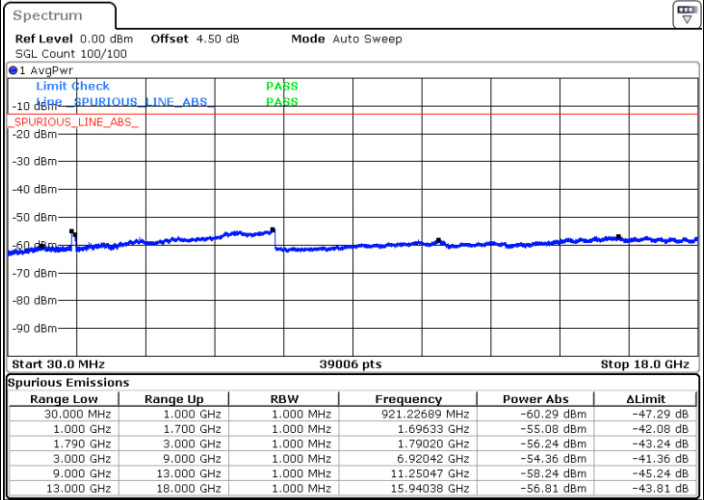
FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB

Middle Channel / 1RB

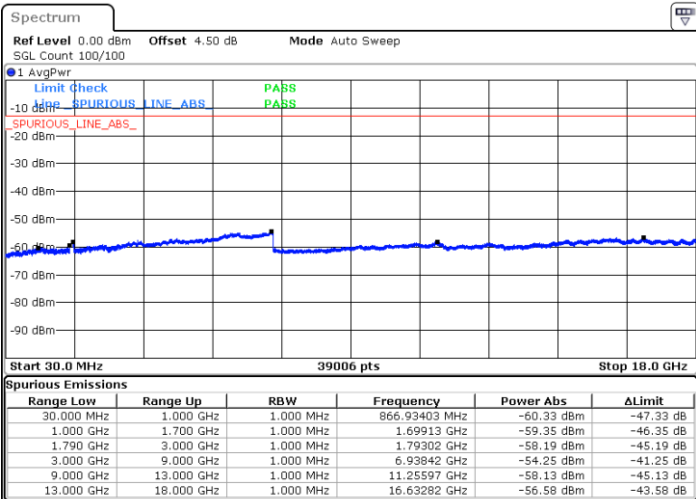


Date: 9.FEB.2021 19:36:14



Date: 9.FEB.2021 19:30:30

Highest Channel / 1RB



Date: 9.FEB.2021 19:44:24



Frequency Stability

Test Conditions		NR n66 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Within Band
		Deviation (ppm)	Result
50	Normal Voltage	0.0014	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0023	
20	Battery End Point	0.0029	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.45 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission_NSA mode

EN-DC_5A_n2A / LTE 10MHz + NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n2 Lowest	3701.5	-63.24	-13	-50.24	-77.78	-70.00	5.82	12.58	H
	5552.25	-62.72	-13	-49.72	-80.25	-68.44	7.28	13.00	H
	7403	-57.03	-13	-44.03	-79.74	-60.19	8.32	11.48	H
	3701.5	-63.01	-13	-50.01	-77.84	-69.77	5.82	12.58	V
	5552.25	-62.55	-13	-49.55	-80.13	-68.27	7.28	13.00	V
	7403	-57.14	-13	-44.14	-79.9	-60.30	8.32	11.48	V
LTE Band5 Lowest	1664.08	-54.20	-13	-41.20	-60.45	-57.45	4.00	9.40	H
	2496.27	-63.47	-13	-50.47	-73.76	-67.04	4.88	10.60	H
	3328.36	-55.50	-13	-42.50	-67.67	-60.43	5.52	12.60	H
	4160	-58.69	-13	-45.69	-74.35	-63.16	6.00	12.62	H
	4992	-59.19	-13	-46.19	-76.57	-62.60	7.14	12.70	H
	1664.08	-54.87	-13	-41.87	-60.89	-58.12	4.00	9.40	V
	2496.27	-62.32	-13	-49.32	-72.95	-65.89	4.88	10.60	V
	3328.36	-52.01	-13	-39.01	-64.59	-56.94	5.52	12.60	V
	4160	-62.99	-13	-49.99	-78.82	-67.46	6.00	12.62	V
4992	-61.14	-13	-48.14	-78.45	-64.55	7.14	12.70	V	
NR n2 Middle	3741.5	-63.00	-13	-50.00	-77.63	-69.75	5.85	12.60	H
	5612.25	-62.14	-13	-49.14	-79.86	-67.94	7.30	13.10	H
	7483	-57.52	-13	-44.52	-79.93	-60.67	8.35	11.50	H
	3741.5	-63.03	-13	-50.03	-77.87	-69.78	5.85	12.60	V
	5612.25	-62.40	-13	-49.40	-80.03	-68.20	7.30	13.10	V
	7483	-57.51	-13	-44.51	-79.86	-60.66	8.35	11.50	V
LTE Band5 Middle	1664.08	-54.05	-13	-41.05	-60.30	-57.30	4.00	9.40	H
	2496.27	-63.57	-13	-50.57	-73.86	-67.14	4.88	10.60	H
	3328.36	-45.73	-13	-32.73	-57.90	-50.66	5.52	12.60	H
	4160	-58.97	-13	-45.97	-74.63	-63.44	6.00	12.62	H
	4992	-59.11	-13	-46.11	-76.49	-62.52	7.14	12.70	H
	1664.08	-55.18	-13	-42.18	-61.20	-58.43	4.00	9.40	V
	2496.27	-62.17	-13	-49.17	-72.80	-65.74	4.88	10.60	V
	3328.36	-52.04	-13	-39.04	-64.62	-56.97	5.52	12.60	V
	4160	-63.12	-13	-50.12	-78.95	-67.59	6.00	12.62	V
4992	-61.31	-13	-48.31	-78.62	-64.72	7.14	12.70	V	
NR n2 Highest	3781.5	-61.27	-13	-48.27	-75.97	-68.01	5.88	12.62	H
	5672.25	-60.03	-13	-47.03	-77.89	-65.84	7.32	13.13	H
	7563	-55.45	-13	-42.45	-77.66	-58.61	8.38	11.54	H
	3781.5	-61.16	-13	-48.16	-75.99	-67.90	5.88	12.62	V
	5672.25	-59.99	-13	-46.99	-77.82	-65.80	7.32	13.13	V
	7563	-55.83	-13	-42.83	-77.86	-58.99	8.38	11.54	V
LTE Band5 Highest	1664.08	-66.22	-13	-53.22	-72.47	-69.47	4.00	9.40	H
	2496.27	-62.14	-13	-49.14	-72.43	-65.71	4.88	10.60	H
	3328.36	-44.75	-13	-31.75	-56.92	-49.68	5.52	12.60	H
	4160	-57.36	-13	-44.36	-73.02	-61.83	6.00	12.62	H
	4992	-56.68	-13	-43.68	-74.06	-60.09	7.14	12.70	H
	1664.08	-66.66	-13	-53.66	-72.68	-69.91	4.00	9.40	V



	2496.27	-62.67	-13	-49.67	-73.30	-66.24	4.88	10.60	V
	3328.36	-55.67	-13	-42.67	-68.25	-60.60	5.52	12.60	V
	4160	-60.98	-13	-47.98	-76.81	-65.45	6.00	12.62	V
	4992	-59.08	-13	-46.08	-76.39	-62.49	7.14	12.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_2A_n5A / LTE 20MHz + NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n5 Lowest	1650	-67.15	-13	-54.15	-73.40	-70.38	3.98	9.36	H
	2475	-65.15	-13	-52.15	-75.49	-68.70	4.85	10.55	H
	3300	-53.40	-13	-40.40	-65.80	-58.33	5.50	12.58	H
	1650	-64.81	-13	-51.81	-70.95	-68.04	3.98	9.36	V
	2475	-64.94	-13	-51.94	-75.64	-68.49	4.85	10.55	V
	3300	-62.62	-13	-49.62	-75.47	-67.55	5.50	12.58	V
LTE Band2 Lowest	3742.18	-61.92	-13	-48.92	-76.55	-68.67	5.85	12.60	H
	5613.27	-62.21	-13	-49.21	-79.93	-68.01	7.30	13.10	H
	7484.36	-57.34	-13	-44.34	-79.75	-60.49	8.35	11.50	H
	3742.18	-62.43	-13	-49.43	-77.27	-69.18	5.85	12.60	V
	5613.27	-62.31	-13	-49.31	-79.94	-68.11	7.30	13.10	V
	7484.36	-57.48	-13	-44.48	-79.82	-60.63	8.35	11.50	V
NR n5 Middle	1654.5	-66.78	-13	-53.78	-73.06	-70.03	4.00	9.40	H
	2481.75	-65.84	-13	-52.84	-76.16	-69.41	4.88	10.60	H
	3309	-54.05	-13	-41.05	-66.38	-58.98	5.52	12.60	H
	1654.5	-65.89	-13	-52.89	-72.02	-69.14	4.00	9.40	V
	2481.75	-65.52	-13	-52.52	-76.20	-69.09	4.88	10.60	V
	3309	-64.04	-13	-51.04	-76.81	-68.97	5.52	12.60	V
LTE Band2 Middle	3742.18	-62.40	-13	-49.40	-77.03	-69.15	5.85	12.60	H
	5613.27	-62.38	-13	-49.38	-80.10	-68.18	7.30	13.10	H
	7484.36	-57.38	-13	-44.38	-79.79	-60.53	8.35	11.50	H
	3742.18	-62.55	-13	-49.55	-77.39	-69.30	5.85	12.60	V
	5613.27	-62.27	-13	-49.27	-79.9	-68.07	7.30	13.10	V
	7484.36	-57.42	-13	-44.42	-79.76	-60.57	8.35	11.50	V
NR n5 Highest	1660	-67.05	-13	-54.05	-73.31	-70.22	4.10	9.42	H
	2490	-65.68	-13	-52.68	-75.98	-69.26	4.90	10.63	H
	3320	-51.31	-13	-38.31	-63.55	-56.23	5.55	12.62	H
	1660	-64.88	-13	-51.88	-70.95	-68.05	4.10	9.42	V
	2490	-65.09	-13	-52.09	-75.73	-68.67	4.90	10.63	V
	3320	-62.15	-13	-49.15	-74.81	-67.07	5.55	12.62	V
LTE Band2 Highest	3742.18	-61.81	-13	-48.81	-76.44	-68.56	5.85	12.60	H
	5613.27	-61.95	-13	-48.95	-79.67	-67.75	7.30	13.10	H
	7484.36	-57.12	-13	-44.12	-79.53	-60.27	8.35	11.50	H
	3742.18	-62.86	-13	-49.86	-77.7	-69.61	5.85	12.60	V
	5613.27	-62.13	-13	-49.13	-79.76	-67.93	7.30	13.10	V
	7484.36	-57.53	-13	-44.53	-79.87	-60.68	8.35	11.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_12A_n25A / LTE 10MHz + NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n25 Lowest	3701.5	-62.06	-13	-49.06	-76.60	-68.82	5.82	12.58	H
	5552.25	-60.92	-13	-47.92	-78.45	-66.64	7.28	13.00	H
	7403	-55.18	-13	-42.18	-77.89	-58.34	8.32	11.48	H
	3701.5	-61.63	-13	-48.63	-76.46	-68.39	5.82	12.58	V
	5552.25	-60.83	-13	-47.83	-78.41	-66.55	7.28	13.00	V
	7403	-55.36	-13	-42.36	-78.12	-58.52	8.32	11.48	V
LTE Band12 Lowest	1406	-63.54	-13	-50.54	-71.62	-66.79	4.00	9.40	H
	2109	-63.98	-13	-50.98	-73.74	-67.55	4.88	10.60	H
	2812	-61.07	-13	-48.07	-73.09	-66.00	5.52	12.60	H
	3515	-49.57	-13	-36.57	-62.89	-54.04	6.00	12.62	H
	1406	-62.78	-13	-49.78	-70.94	-66.03	4.00	9.40	V
	2109	-64.10	-13	-51.10	-74.23	-67.67	4.88	10.60	V
	2812	-62.05	-13	-49.05	-74.31	-66.98	5.52	12.60	V
	3515	-61.01	-13	-48.01	-74.86	-65.48	6.00	12.62	V
NR n25 Middle	3746.5	-61.95	-13	-48.95	-76.58	-68.70	5.85	12.60	H
	5619.75	-60.53	-13	-47.53	-78.25	-66.33	7.30	13.10	H
	7493	-55.64	-13	-42.64	-77.99	-58.79	8.35	11.50	H
	3746.5	-61.81	-13	-48.81	-76.65	-68.56	5.85	12.60	V
	5619.75	-60.48	-13	-47.48	-78.11	-66.28	7.30	13.10	V
	7493	-55.57	-13	-42.57	-77.84	-58.72	8.35	11.50	V
LTE Band12 Middle	1406	-63.54	-13	-50.54	-71.62	-66.79	4.00	9.40	H
	2109	-63.91	-13	-50.91	-73.67	-67.48	4.88	10.60	H
	2812	-60.88	-13	-47.88	-72.90	-65.81	5.52	12.60	H
	3515	-49.18	-13	-36.18	-62.50	-53.65	6.00	12.62	H
	1406	-62.87	-13	-49.87	-71.03	-66.12	4.00	9.40	V
	2109	-64.09	-13	-51.09	-74.22	-67.66	4.88	10.60	V
	2812	-62.16	-13	-49.16	-74.42	-67.09	5.52	12.60	V
	3515	-60.85	-13	-47.85	-74.70	-65.32	6.00	12.62	V
NR n25 Highest	3791.36	-61.06	-13	-48.06	-75.77	-67.80	5.88	12.62	H
	5687.04	-59.30	-13	-46.30	-77.21	-65.11	7.32	13.13	H
	7582.72	-55.47	-13	-42.47	-77.65	-58.63	8.38	11.54	H
	3791.36	-60.95	-13	-47.95	-75.78	-67.69	5.88	12.62	V
	5687.04	-59.72	-13	-46.72	-77.64	-65.53	7.32	13.13	V
	7582.72	-55.37	-13	-42.37	-77.34	-58.53	8.38	11.54	V
LTE Band12 Highest	1406	-63.46	-13	-50.46	-71.54	-66.71	4.00	9.40	H
	2109	-63.86	-13	-50.86	-73.62	-67.43	4.88	10.60	H
	2812	-59.11	-13	-46.11	-71.13	-64.04	5.52	12.60	H
	3515	-45.54	-13	-32.54	-58.86	-50.01	6.00	12.62	H
	1406	-63.24	-13	-50.24	-71.40	-66.49	4.00	9.40	V
	2109	-63.79	-13	-50.79	-73.92	-67.36	4.88	10.60	V
	2812	-60.24	-13	-47.24	-72.50	-65.17	5.52	12.60	V
	3515	-58.22	-13	-45.22	-72.07	-62.69	6.00	12.62	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



EN-DC_5A_n66A / LTE 20MHz + NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n66 Lowest	3421.50	-63.45	-13	-50.45	-75.70	-70.33	5.60	12.48	H
	5132.25	-59.86	-13	-46.86	-77.35	-65.54	7.10	12.78	H
	6843.00	-57.73	-13	-44.73	-78.18	-61.12	8.38	11.77	H
	3421.50	-62.53	-13	-49.53	-75.34	-69.41	5.60	12.48	V
	5132.25	-60.06	-13	-47.06	-77.49	-65.74	7.10	12.78	V
	6843.00	-57.89	-13	-44.89	-78.09	-61.28	8.38	11.77	V
LTE Band5 Lowest	1664.08	-66.25	-13	-53.25	-72.50	-69.50	4.00	9.40	H
	2496.27	-62.37	-13	-49.37	-72.66	-65.94	4.88	10.60	H
	3328.36	-45.46	-13	-32.46	-57.63	-50.39	5.52	12.60	H
	4160	-56.81	-13	-43.81	-72.47	-61.28	6.00	12.62	H
	4992	-56.10	-13	-43.10	-73.48	-59.51	7.14	12.70	H
	1664.08	-66.49	-13	-53.49	-72.51	-69.74	4.00	9.40	V
	2496.27	-62.04	-13	-49.04	-72.67	-65.61	4.88	10.60	V
	3328.36	-56.86	-13	-43.86	-69.44	-61.79	5.52	12.60	V
	4160	-61.11	-13	-48.11	-76.94	-65.58	6.00	12.62	V
4992	-58.62	-13	-45.62	-75.93	-62.03	7.14	12.70	V	
NR n66 Middle	3471.50	-63.32	-13	-50.32	-76.14	-70.17	5.65	12.50	H
	5207.25	-60.09	-13	-47.09	-77.56	-65.76	7.13	12.80	H
	6943.00	-57.40	-13	-44.40	-78.31	-60.80	8.40	11.80	H
	3471.50	-62.66	-13	-49.66	-76.02	-69.51	5.65	12.50	V
	5207.25	-60.38	-13	-47.38	-77.8	-66.05	7.13	12.80	V
	6943.00	-57.22	-13	-44.22	-78.17	-60.62	8.40	11.80	V
LTE Band5 Middle	1664.08	-66.39	-13	-53.39	-72.64	-69.64	4.00	9.40	H
	2496.27	-62.26	-13	-49.26	-72.55	-65.83	4.88	10.60	H
	3328.36	-44.13	-13	-31.13	-56.30	-49.06	5.52	12.60	H
	4160	-58.32	-13	-45.32	-73.98	-62.79	6.00	12.62	H
	4992	-56.04	-13	-43.04	-73.42	-59.45	7.14	12.70	H
	1664.08	-66.35	-13	-53.35	-72.37	-69.60	4.00	9.40	V
	2496.27	-61.00	-13	-48.00	-71.63	-64.57	4.88	10.60	V
	3328.36	-55.92	-13	-42.92	-68.50	-60.85	5.52	12.60	V
	4160	-61.30	-13	-48.30	-77.13	-65.77	6.00	12.62	V
4992	-59.10	-13	-46.10	-76.41	-62.51	7.14	12.70	V	
NR n66 Highest	3521.5	-62.35	-13	-49.35	-75.74	-69.19	5.68	12.52	H
	5282.25	-60.79	-13	-47.79	-77.75	-66.46	7.15	12.82	H
	7043	-56.15	-13	-43.15	-77.48	-59.58	8.42	11.85	H
	3521.5	-62.16	-13	-49.16	-76.08	-69.00	5.68	12.52	V
	5282.25	-60.81	-13	-47.81	-77.82	-66.48	7.15	12.82	V
	7043	-55.88	-13	-42.88	-77.38	-59.31	8.42	11.85	V
LTE Band5 Highest	1664.08	-66.38	-13	-53.38	-72.63	-69.63	4.00	9.40	H
	2496.27	-62.12	-13	-49.12	-72.41	-65.69	4.88	10.60	H
	3328.36	-45.42	-13	-32.42	-57.59	-50.35	5.52	12.60	H
	4160	-57.23	-13	-44.23	-72.89	-61.70	6.00	12.62	H
	4992	-56.23	-13	-43.23	-73.61	-59.64	7.14	12.70	H



	1664.08	-66.88	-13	-53.88	-72.90	-70.13	4.00	9.40	V
	2496.27	-61.95	-13	-48.95	-72.58	-65.52	4.88	10.60	V
	3328.36	-56.82	-13	-43.82	-69.40	-61.75	5.52	12.60	V
	4160	-61.05	-13	-48.05	-76.88	-65.52	6.00	12.62	V
	4992	-58.85	-13	-45.85	-76.16	-62.26	7.14	12.70	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Radiated Spurious Emission_SA mode

Table with 10 columns: Channel, Frequency (MHz), EIRP (dBm), Limit (dBm), Over Limit (dB), SPA Reading (dBm), S.G. Power (dBm), TX Cable loss (dB), TX Antenna Gain (dBi), Polarization (H/V). Rows are categorized into Lowest, Middle, and Highest frequency bands.

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



5G NR n66 / NR 20MHz / QPSK DFT-s-OFDM									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3421.5	-63.17	-13	-50.17	-75.42	-70.05	5.60	12.48	H
	5132.25	-60.61	-13	-47.61	-78.10	-66.29	7.10	12.78	H
	6843	-57.14	-13	-44.14	-77.59	-60.53	8.38	11.77	H
	8554.1	-54.01	-13	-41.01	-77.70	-56.85	8.74	11.58	H
	10264.92	-52.43	-13	-39.43	-79.46	-53.83	10.55	11.95	H
	11975.74	-51.07	-13	-38.07	-78.90	-52.41	11.76	13.10	H
	3421.5	-62.73	-13	-49.73	-75.54	-69.61	5.60	12.48	V
	5132.25	-60.65	-13	-47.65	-78.08	-66.33	7.10	12.78	V
	6843	-57.84	-13	-44.84	-78.04	-61.23	8.38	11.77	V
	8554.1	-54.56	-13	-41.56	-78.15	-57.40	8.74	11.58	V
	10264.92	-52.75	-13	-39.75	-79.47	-54.15	10.55	11.95	V
11975.74	-51.05	-13	-38.05	-79.31	-52.39	11.76	13.10	V	
Middle	3471.5	-62.46	-13	-49.46	-75.28	-69.31	5.65	12.50	H
	5207.25	-60.49	-13	-47.49	-77.96	-66.16	7.13	12.80	H
	6943	-57.01	-13	-44.01	-77.92	-60.41	8.40	11.80	H
	8679.1	-49.26	-13	-36.26	-73.60	-52.11	8.75	11.60	H
	10414.92	-52.26	-13	-39.26	-79.24	-53.68	10.58	12.00	H
	12150.74	-45.85	-13	-32.85	-73.42	-47.27	11.78	13.20	H
	3471.5	-62.30	-13	-49.30	-75.66	-69.15	5.65	12.50	V
	5207.25	-60.11	-13	-47.11	-77.53	-65.78	7.13	12.80	V
	6943	-56.48	-13	-43.48	-77.43	-59.88	8.40	11.80	V
	8679.1	-53.75	-13	-40.75	-77.94	-56.60	8.75	11.60	V
	10414.92	-52.31	-13	-39.31	-79.15	-53.73	10.58	12.00	V
12150.74	-46.20	-13	-33.20	-74.26	-47.62	11.78	13.20	V	
Highest	3521.5	-61.80	-13	-48.80	-75.19	-68.64	5.68	12.52	H
	5282.25	-60.84	-13	-47.84	-77.80	-66.51	7.15	12.82	H
	7043	-56.14	-13	-43.14	-77.47	-59.57	8.42	11.85	H
	8805.9	-48.15	-13	-35.15	-73.04	-50.99	8.78	11.62	H
	10564.92	-51.51	-13	-38.51	-78.72	-53.01	10.60	12.10	H
	12328.26	-43.39	-13	-30.39	-70.82	-44.82	11.80	13.23	H
	3521.5	-61.98	-13	-48.98	-75.9	-68.82	5.68	12.52	V
	5282.25	-60.92	-13	-47.92	-77.93	-66.59	7.15	12.82	V
	7043	-56.11	-13	-43.11	-77.61	-59.54	8.42	11.85	V
	8805.9	-53.52	-13	-40.52	-78.22	-56.36	8.78	11.62	V
	10564.92	-51.96	-13	-38.96	-79.1	-53.46	10.60	12.10	V
12328.26	-43.62	-13	-30.62	-71.56	-45.05	11.80	13.23	V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.