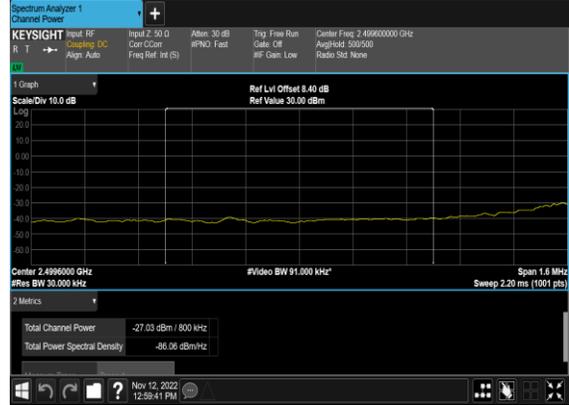## N7(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH
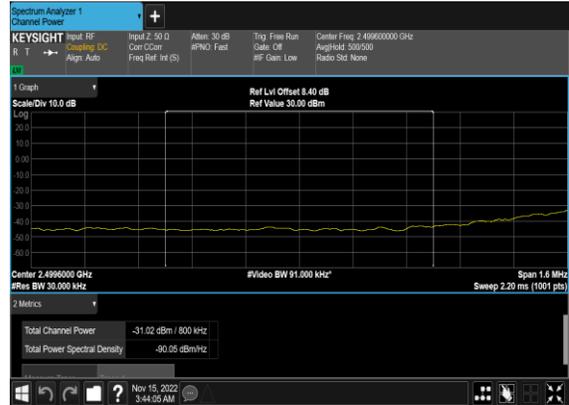

N7(40M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH_CHP_PASS

N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH_CHP_PASS

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

N7(40M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_CHP_PASS

N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

N7(40M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_CHP_PASS

N7(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

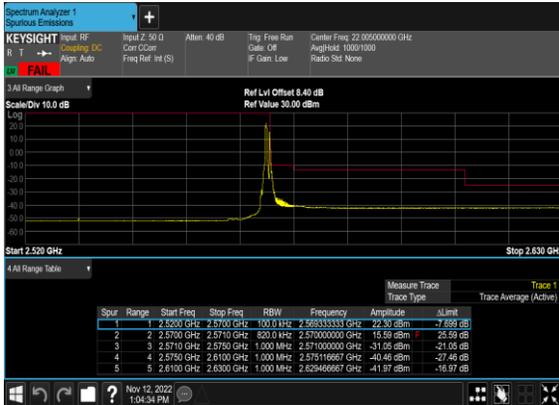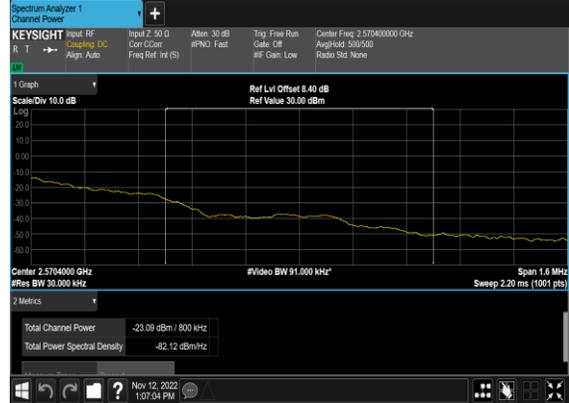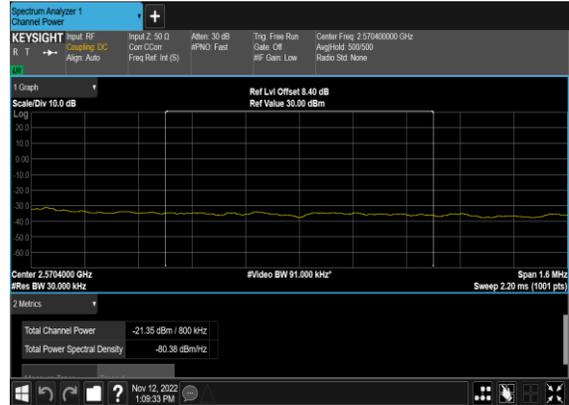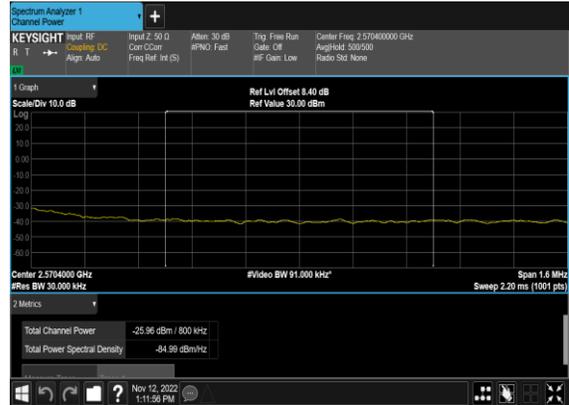## N7(40M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH_CHP_PASS

N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N7(40M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH_CHP_PASS

FR1 N38

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=-1.6dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
38	30	10	515000	2575	DFT-s-OFDM QPSK	1@1	24.68	23.08	0.2032
38	30	10	515000	2575	DFT-s-OFDM 16 QAM	1@1	23.71	22.11	0.1626
38	30	10	519000	2595	DFT-s-OFDM QPSK	1@1	24.56	22.96	0.1977
38	30	10	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.32	21.72	0.1486
38	30	10	523000	2615	DFT-s-OFDM QPSK	1@1	24.46	22.86	0.1932
38	30	10	523000	2615	DFT-s-OFDM 16 QAM	1@1	23.48	21.88	0.1542
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@1	24.78	23.18	0.2080
38	30	15	515500	2577.5	DFT-s-OFDM 16 QAM	1@1	23.67	22.07	0.1611
38	30	15	519000	2595	DFT-s-OFDM QPSK	1@1	24.7	23.1	0.2042
38	30	15	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.58	21.98	0.1578
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@1	24.55	22.95	0.1972
38	30	15	522500	2612.5	DFT-s-OFDM 16 QAM	1@1	23.51	21.91	0.1552
38	30	20	516000	2580	DFT-s-OFDM QPSK	1@1	24.76	23.16	0.2070
38	30	20	516000	2580	DFT-s-OFDM 16 QAM	1@1	23.68	22.08	0.1614
38	30	20	519000	2595	DFT-s-OFDM QPSK	1@1	24.72	23.12	0.2051
38	30	20	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.67	22.07	0.1611
38	30	20	522000	2610	DFT-s-OFDM QPSK	1@1	24.53	22.93	0.1963
38	30	20	522000	2610	DFT-s-OFDM 16 QAM	1@1	23.54	21.94	0.1563
38	30	30	517000	2585	DFT-s-OFDM QPSK	1@1	24.8	23.2	0.2089
38	30	30	517000	2585	DFT-s-OFDM 16 QAM	1@1	23.78	22.18	0.1652
38	30	30	519000	2595	DFT-s-OFDM QPSK	1@1	24.74	23.14	0.2061
38	30	30	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.8	22.2	0.1660
38	30	30	521000	2605	DFT-s-OFDM QPSK	1@1	24.63	23.03	0.2009
38	30	30	521000	2605	DFT-s-OFDM 16 QAM	1@1	23.66	22.06	0.1607

38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	50@25	24.77	23.17	0.2075
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@1	24.81	23.21	0.2094
38	30	40	518000	2590	DFT-s-OFDM PI/2 BPSK	1@104	24.77	23.17	0.2075
38	30	40	518000	2590	DFT-s-OFDM QPSK	50@25	24.74	23.14	0.2061
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@1	24.77	23.17	0.2075
38	30	40	518000	2590	DFT-s-OFDM QPSK	1@104	24.73	23.13	0.2056
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	50@25	23.79	22.19	0.1656
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@1	23.78	22.18	0.1652
38	30	40	518000	2590	DFT-s-OFDM 16 QAM	1@104	23.76	22.16	0.1644
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	50@25	22.28	20.68	0.1169
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@1	22.06	20.46	0.1112
38	30	40	518000	2590	DFT-s-OFDM 64 QAM	1@104	21.99	20.39	0.1094
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	50@25	20.21	18.61	0.0726
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@1	20.11	18.51	0.0710
38	30	40	518000	2590	DFT-s-OFDM 256 QAM	1@104	20.12	18.52	0.0711
38	30	40	518000	2590	CP-OFDM QPSK	53@26	23.2	21.6	0.1445
38	30	40	518000	2590	CP-OFDM QPSK	1@1	23.26	21.66	0.1466
38	30	40	518000	2590	CP-OFDM QPSK	1@104	23.22	21.62	0.1452
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	50@25	24.73	23.13	0.2056
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@1	24.94	23.34	0.2158
38	30	40	519000	2595	DFT-s-OFDM PI/2 BPSK	1@104	24.78	23.18	0.2080
38	30	40	519000	2595	DFT-s-OFDM QPSK	50@25	24.7	23.1	0.2042
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@1	24.75	23.15	0.2065
38	30	40	519000	2595	DFT-s-OFDM QPSK	1@104	24.76	23.16	0.2070
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	50@25	23.7	22.1	0.1622
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@1	23.69	22.09	0.1618
38	30	40	519000	2595	DFT-s-OFDM 16 QAM	1@104	23.75	22.15	0.1641
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	50@25	22.24	20.64	0.1159
38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@1	21.92	20.32	0.1076

38	30	40	519000	2595	DFT-s-OFDM 64 QAM	1@104	22.03	20.43	0.1104
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	50@25	20.14	18.54	0.0714
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@1	20.1	18.5	0.0708
38	30	40	519000	2595	DFT-s-OFDM 256 QAM	1@104	20.14	18.54	0.0714
38	30	40	519000	2595	CP-OFDM QPSK	53@26	23.18	21.58	0.1439
38	30	40	519000	2595	CP-OFDM QPSK	1@1	23.27	21.67	0.1469
38	30	40	519000	2595	CP-OFDM QPSK	1@104	23.27	21.67	0.1469
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	50@25	24.62	23.02	0.2004
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@1	24.78	23.18	0.2080
38	30	40	520000	2600	DFT-s-OFDM PI/2 BPSK	1@104	24.74	23.14	0.2061
38	30	40	520000	2600	DFT-s-OFDM QPSK	50@25	24.68	23.08	0.2032
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@1	24.73	23.13	0.2056
38	30	40	520000	2600	DFT-s-OFDM QPSK	1@104	24.8	23.2	0.2089
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	50@25	23.71	22.11	0.1626
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@1	23.64	22.04	0.1600
38	30	40	520000	2600	DFT-s-OFDM 16 QAM	1@104	23.71	22.11	0.1626
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	50@25	22.22	20.62	0.1153
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@1	22.01	20.41	0.1099
38	30	40	520000	2600	DFT-s-OFDM 64 QAM	1@104	22.09	20.49	0.1119
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	50@25	20.07	18.47	0.0703
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@1	20.09	18.49	0.0706
38	30	40	520000	2600	DFT-s-OFDM 256 QAM	1@104	20.09	18.49	0.0706
38	30	40	520000	2600	CP-OFDM QPSK	53@26	23.16	21.56	0.1432
38	30	40	520000	2600	CP-OFDM QPSK	1@1	23.22	21.62	0.1452
38	30	40	520000	2600	CP-OFDM QPSK	1@104	23.22	21.62	0.1452

Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
38	30	10	519000	2595.0	DFT-s-OFDM PI/2 BPSK	24@0	8.5959	9.732
38	30	10	519000	2595.0	DFT-s-OFDM QPSK	24@0	8.592	9.547
38	30	10	519000	2595.0	CP-OFDM QPSK	24@0	8.5859	9.843
38	30	10	519000	2595.0	CP-OFDM 16 QAM	24@0	8.5901	9.841
38	30	10	519000	2595.0	CP-OFDM 64 QAM	24@0	8.5913	9.7
38	30	10	519000	2595.0	CP-OFDM 256 QAM	24@0	8.5807	9.572
38	30	15	519000	2595.0	DFT-s-OFDM PI/2 BPSK	36@0	12.842	14.09
38	30	15	519000	2595.0	DFT-s-OFDM QPSK	36@0	12.853	13.82
38	30	15	519000	2595.0	CP-OFDM QPSK	38@0	13.593	15.07
38	30	15	519000	2595.0	CP-OFDM 16 QAM	38@0	13.588	14.86
38	30	15	519000	2595.0	CP-OFDM 64 QAM	38@0	13.581	14.73
38	30	15	519000	2595.0	CP-OFDM 256 QAM	38@0	13.577	14.89

N38(10M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH
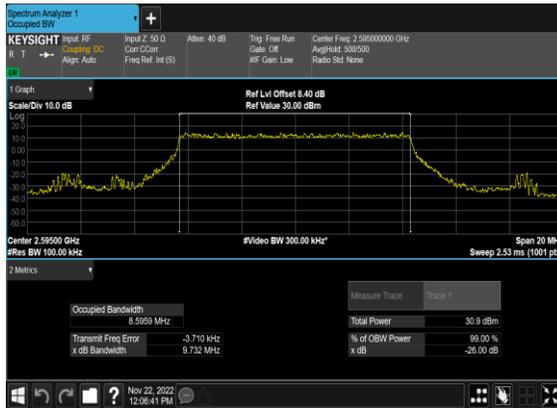
N38(10M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N38(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N38(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N38(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N38(10M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N38(15M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

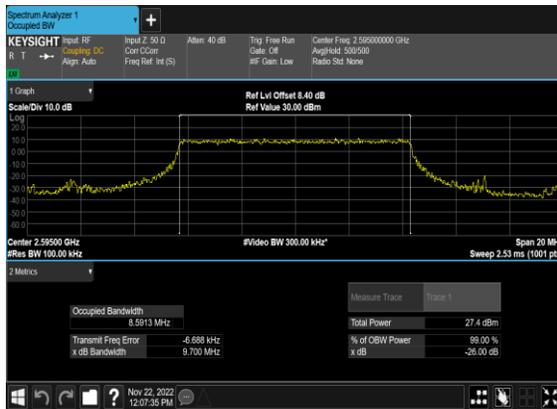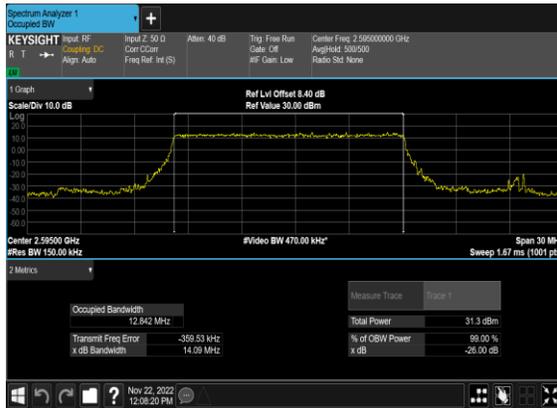## N38(15M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH
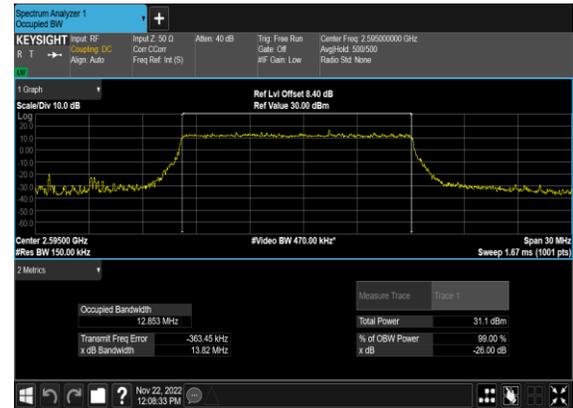
N38(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N38(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N38(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH
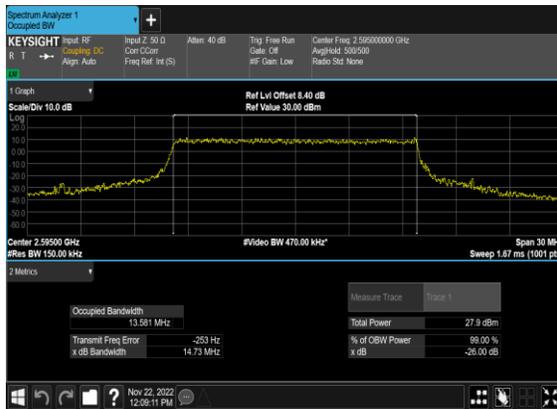
N38(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
38	30	10	515000	2575.0	DFT-s-OFDM BPSK	1@0	see graph	---
38	30	10	515000	2575.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	10	515000	2575.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	10	515000	2575.0	DFT-s-OFDM QPSK	1@0	see graph	---
38	30	10	515000	2575.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	10	515000	2575.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	10	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	---
38	30	10	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	10	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	10	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	---
38	30	10	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	10	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	10	523000	2615.0	DFT-s-OFDM BPSK	1@0	see graph	---
38	30	10	523000	2615.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	10	523000	2615.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	10	523000	2615.0	DFT-s-OFDM QPSK	1@0	see graph	---
38	30	10	523000	2615.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	10	523000	2615.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	15	515500	2577.5	DFT-s-OFDM BPSK	1@0	see graph	---
38	30	15	515500	2577.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	15	515500	2577.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@0	see graph	---

38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	15	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	**---**
38	30	15	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	15	519000	2595.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	15	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	**---**
38	30	15	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	15	519000	2595.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	15	522500	2612.5	DFT-s-OFDM BPSK	1@0	see graph	**---**
38	30	15	522500	2612.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	15	522500	2612.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@0	see graph	**---**
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

N38(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 30 dB   PNO: Fast   Avg Type: Power (RMS)   1 2 3 4 5 6
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
Sig Track: Off

1 Spectrum
Scale/Div 10 dB   Ref Lvl Offset 15.37 dB   Mkr2 3.839 3 GHz
Log   Ref Level 30.00 dBm   -39.371 dBm

Start 30 MHz   Video BW 3.0 MHz*   Stop 20.000 GHz
#Res BW 1.0 MHz   Sweep ~38.3 ms (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1 N	1	f	2.571 2 GHz	22.33 dBm			
2 N	1	f	3.839 3 GHz	-39.37 dBm			
3							
4							
5							
6							

Nov 22, 2022
2:02:33 PM

N38(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 30 dB   PNO: Fast   Avg Type: Power (RMS)   1 2 3 4 5 6
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
Sig Track: Off

1 Spectrum
Scale/Div 10 dB   Ref Lvl Offset 15.37 dB   Mkr1 25.739 340 GHz
Log   Ref Level 30.00 dBm   -36.661 dBm

Start 20.000 GHz   Video BW 3.0 MHz*   Stop 26.200 GHz
#Res BW 1.0 MHz   Sweep ~11.8 ms (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1 N	1	f	25.739 340 GHz	-36.66 dBm			
2							
3							
4							
5							
6							

Nov 22, 2022
2:03:09 PM

N38(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 30 dB   PNO: Fast   Avg Type: Power (RMS)   1 2 3 4 5 6
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
Sig Track: Off

1 Spectrum
Scale/Div 10 dB   Ref Lvl Offset 15.37 dB   Mkr2 3.797 3 GHz
Log   Ref Level 30.00 dBm   -39.544 dBm

Start 30 MHz   Video BW 3.0 MHz*   Stop 20.000 GHz
#Res BW 1.0 MHz   Sweep ~38.3 ms (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1 N	1	f	2.571 2 GHz	21.91 dBm			
2 N	1	f	3.797 3 GHz	-39.54 dBm			
3							
4							
5							
6							

Nov 22, 2022
2:03:49 PM

N38(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 30 dB   PNO: Fast   Avg Type: Power (RMS)   1 2 3 4 5 6
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
Sig Track: Off

1 Spectrum
Scale/Div 10 dB   Ref Lvl Offset 15.37 dB   Mkr1 26.184 655 GHz
Log   Ref Level 30.00 dBm   -36.465 dBm

Start 20.000 GHz   Video BW 3.0 MHz*   Stop 26.200 GHz
#Res BW 1.0 MHz   Sweep ~11.8 ms (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1 N	1	f	26.184 655 GHz	-36.47 dBm			
2							
3							
4							
5							
6							

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N38(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 30 dB   PNO: Fast   Avg Type: Power (RMS)   1 2 3 4 5 6
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
Sig Track: Off

1 Spectrum
Scale/Div 10 dB   Ref Lvl Offset 15.37 dB   Mkr2 3.787 9 GHz
Log   Ref Level 30.00 dBm   -39.470 dBm

Start 30 MHz   Video BW 3.0 MHz*   Stop 20.000 GHz
#Res BW 1.0 MHz   Sweep ~38.3 ms (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1 N	1	f	2.591 2 GHz	24.42 dBm			
2 N	1	f	3.787 9 GHz	-39.47 dBm			
3							
4							
5							
6							

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N38(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

Spectrum Analyzer 1
Swept SA
KEYSIGHT Input: RF   Input Z: 50 Ω   #Atten: 30 dB   PNO: Fast   Avg Type: Power (RMS)   1 2 3 4 5 6
R T   Coupling: DC   Corr CCorr   Gate: Off   AvgHold: 100/100   A W W W W W
Align: Auto   Freq Ref: Int (S)   IF Gain: Low   Trig: Free Run   A N N N N N
Sig Track: Off

1 Spectrum
Scale/Div 10 dB   Ref Lvl Offset 15.37 dB   Mkr1 25.640 760 GHz
Log   Ref Level 30.00 dBm   -36.224 dBm

Start 20.000 GHz   Video BW 3.0 MHz*   Stop 26.200 GHz
#Res BW 1.0 MHz   Sweep ~11.8 ms (40001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1 N	1	f	25.640 760 GHz	-36.22 dBm			
2							
3							
4							
5							
6							

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N38(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N38(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N38(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N38(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N38(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

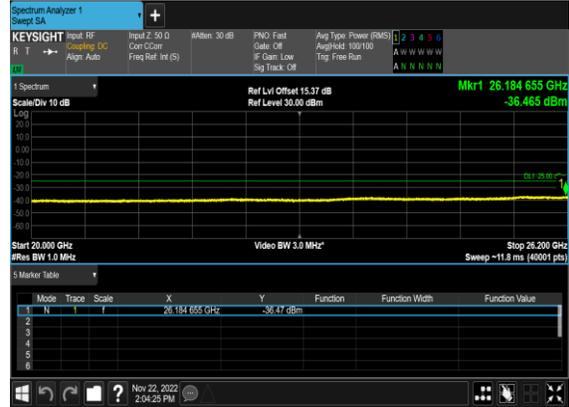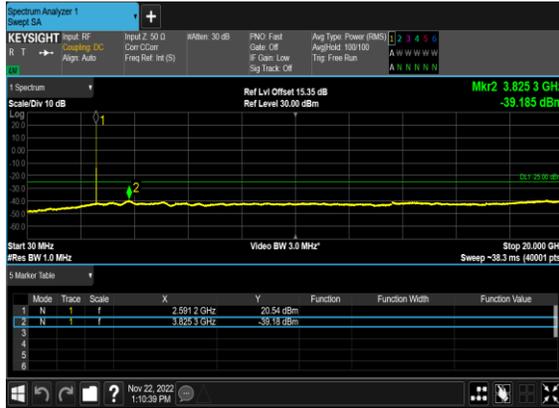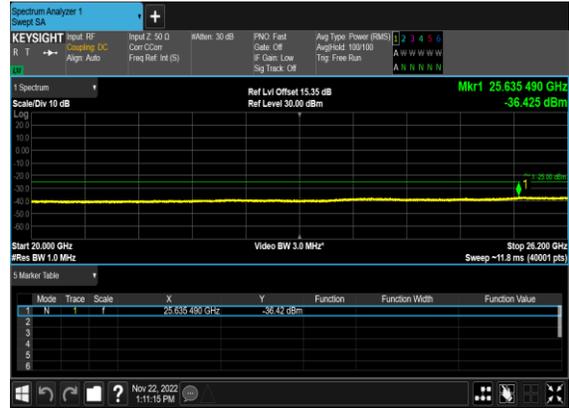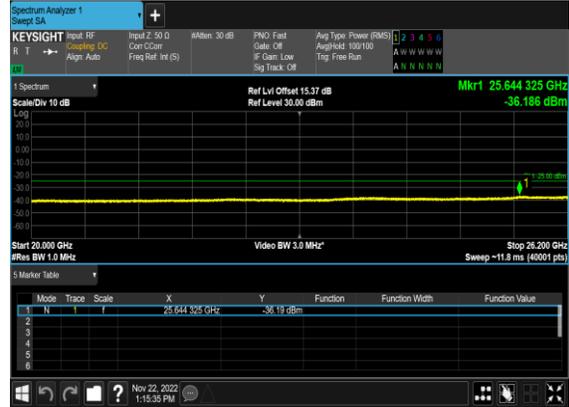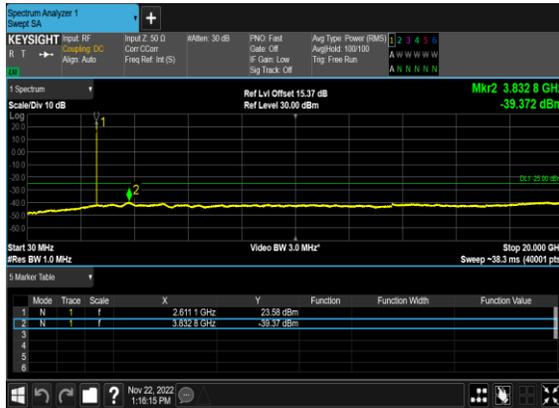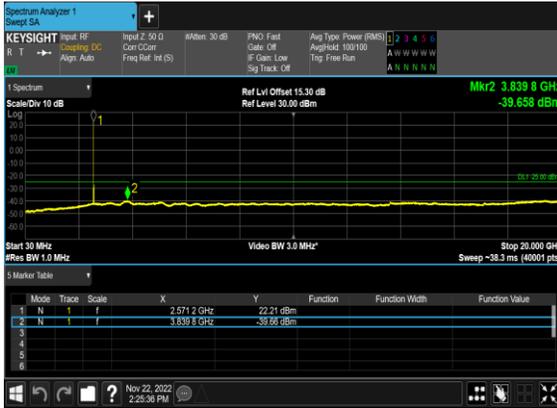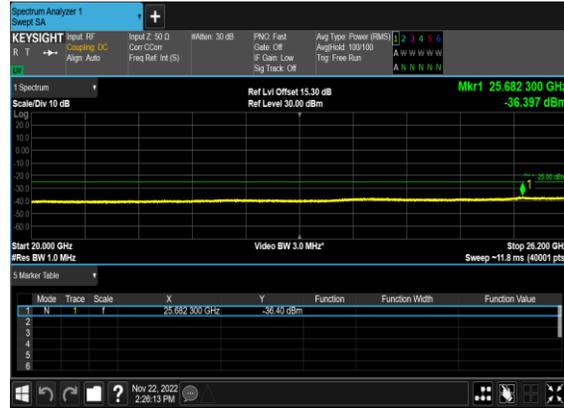## N38(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N38(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N38(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N38(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N38(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH

N38(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH
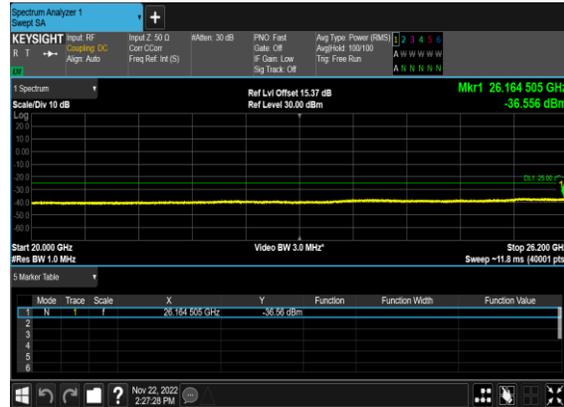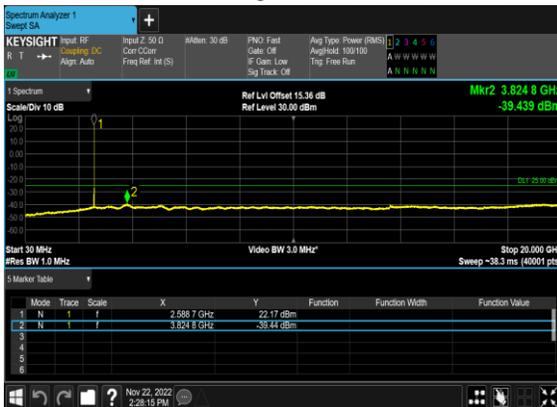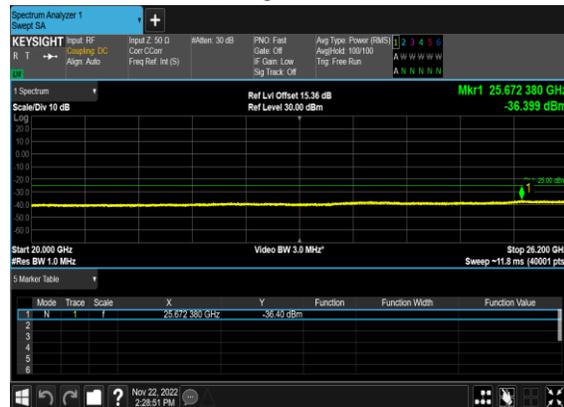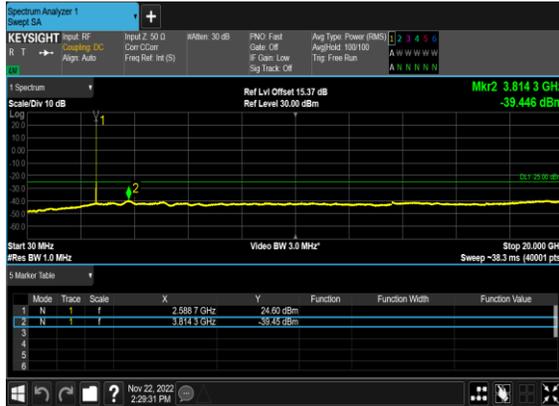

N38(15M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
38	30	10	515000	2575.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	10	515000	2575.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	10	515000	2575.0	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
38	30	10	515000	2575.0	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
38	30	10	523000	2615.0	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
38	30	10	523000	2615.0	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
38	30	10	523000	2615.0	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
38	30	10	523000	2615.0	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
38	30	15	515500	2577.5	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
38	30	15	515500	2577.5	DFT-s-OFDM BPSK	36@0	see graph	**PASS**
38	30	15	515500	2577.5	DFT-s-OFDM QPSK	36@0	see graph	**PASS**
38	30	15	522500	2612.5	DFT-s-OFDM BPSK	1@37	see graph	**PASS**
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	1@37	see graph	**PASS**
38	30	15	522500	2612.5	DFT-s-OFDM BPSK	36@0	see graph	**PASS**
38	30	15	522500	2612.5	DFT-s-OFDM QPSK	36@0	see graph	**PASS**

N38(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N38(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

N38(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

N38(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH
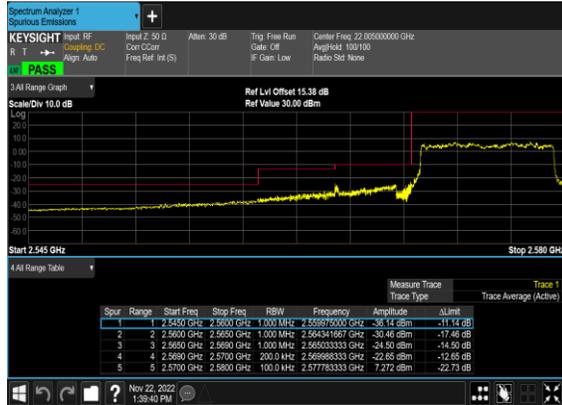
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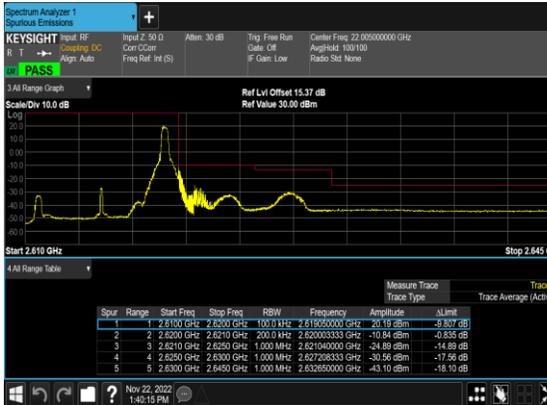
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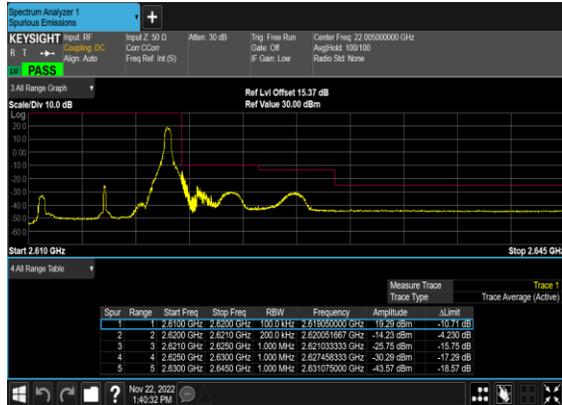
N38(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH

N38(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH

N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH_CHP_PASS
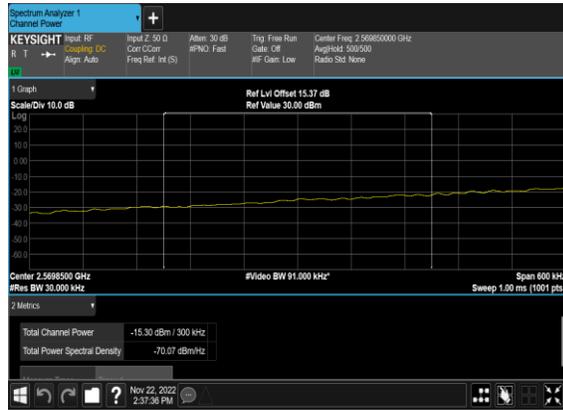
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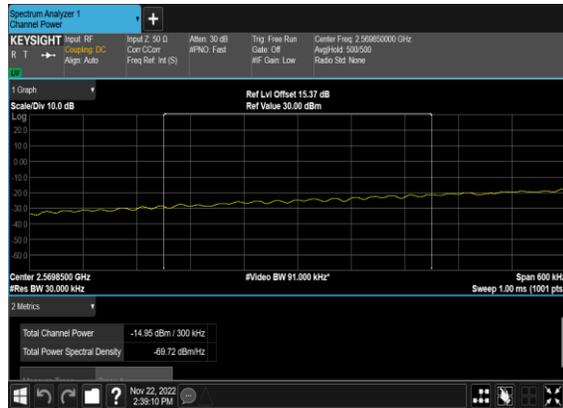
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N38(15M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH

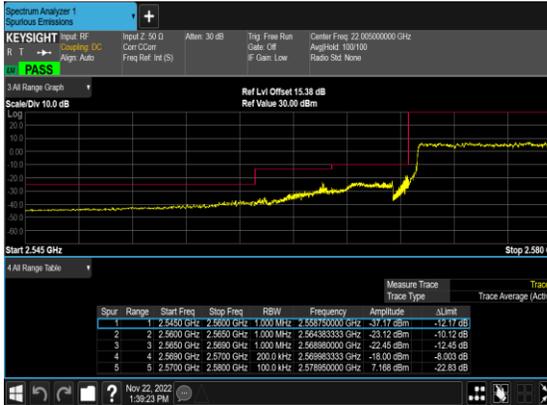
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N38(15M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH
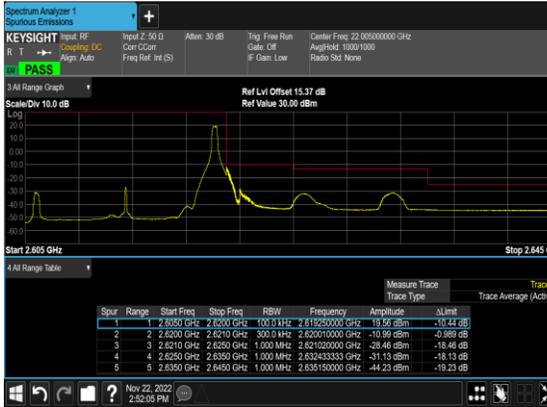
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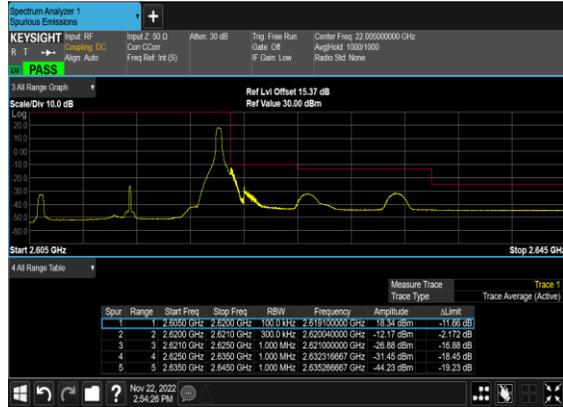
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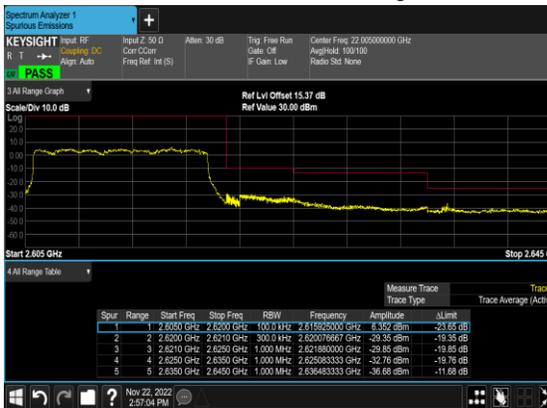
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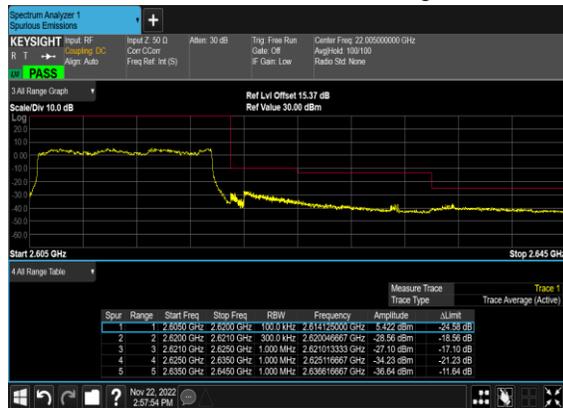
FR1 N41

Transmitter Conducted Output Power And EIRP, $(G_T - L_C)$=-1.6dBi

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@1	25.33	23.73	0.2360
41	30	20	501204	2506.02	DFT-s-OFDM 16 QAM	1@1	24.96	23.36	0.2168
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.39	23.79	0.2393
41	30	20	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.38	23.78	0.2388
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@1	25.34	23.74	0.2366
41	30	20	535998	2679.99	DFT-s-OFDM 16 QAM	1@1	25.11	23.51	0.2244
41	30	30	502200	2511.0	DFT-s-OFDM QPSK	1@1	25.34	23.74	0.2366
41	30	30	502200	2511.0	DFT-s-OFDM 16 QAM	1@1	25.08	23.48	0.2228
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.42	23.82	0.2410
41	30	30	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.31	23.71	0.2350
41	30	30	534996	2674.98	DFT-s-OFDM QPSK	1@1	25.31	23.71	0.2350
41	30	30	534996	2674.98	DFT-s-OFDM 16 QAM	1@1	25.18	23.58	0.2280
41	30	40	503202	2516.01	DFT-s-OFDM QPSK	1@1	25.5	23.9	0.2455
41	30	40	503202	2516.01	DFT-s-OFDM 16 QAM	1@1	25.11	23.51	0.2244
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.5	23.9	0.2455
41	30	40	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	25.01	23.41	0.2193
41	30	40	534000	2670.0	DFT-s-OFDM QPSK	1@1	25.3	23.7	0.2344
41	30	40	534000	2670.0	DFT-s-OFDM 16 QAM	1@1	25.27	23.67	0.2328
41	30	50	504204	2521.02	DFT-s-OFDM QPSK	1@1	25.39	23.79	0.2393
41	30	50	504204	2521.02	DFT-s-OFDM 16 QAM	1@1	25.16	23.56	0.2270
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.5	23.9	0.2455
41	30	50	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.83	23.23	0.2104

41	30	50	532998	2664.99	DFT-s-OFDM QPSK	1@1	25.5	23.9	0.2455
41	30	50	532998	2664.99	DFT-s-OFDM 16 QAM	1@1	24.85	23.25	0.2113
41	30	60	505200	2526.0	DFT-s-OFDM QPSK	1@1	25.5	23.9	0.2455
41	30	60	505200	2526.0	DFT-s-OFDM 16 QAM	1@1	25.15	23.55	0.2265
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.48	23.88	0.2443
41	30	60	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.85	23.25	0.2113
41	30	60	531996	2659.98	DFT-s-OFDM QPSK	1@1	25.34	23.74	0.2366
41	30	60	531996	2659.98	DFT-s-OFDM 16 QAM	1@1	24.76	23.16	0.2070
41	30	70	505200	2531.01	DFT-s-OFDM QPSK	1@1	25.44	23.84	0.2421
41	30	70	505200	2531.01	DFT-s-OFDM 16 QAM	1@1	24.81	23.21	0.2094
41	30	70	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.27	23.67	0.2328
41	30	70	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.57	22.97	0.1982
41	30	70	531996	2655.0	DFT-s-OFDM QPSK	1@1	25.17	23.57	0.2275
41	30	70	531996	2655.0	DFT-s-OFDM 16 QAM	1@1	24.57	22.97	0.1982
41	30	80	507204	2536.02	DFT-s-OFDM QPSK	1@1	25.46	23.86	0.2432
41	30	80	507204	2536.02	DFT-s-OFDM 16 QAM	1@1	24.78	23.18	0.2080
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.51	23.91	0.2460
41	30	80	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.54	22.94	0.1968
41	30	80	529998	2649.99	DFT-s-OFDM QPSK	1@1	25.2	23.6	0.2291
41	30	80	529998	2649.99	DFT-s-OFDM 16 QAM	1@1	24.74	23.14	0.2061
41	30	90	508200	2541.0	DFT-s-OFDM QPSK	1@1	25.45	23.85	0.2427
41	30	90	508200	2541.0	DFT-s-OFDM 16 QAM	1@1	24.92	23.32	0.2148
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.51	23.91	0.2460
41	30	90	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.5	22.9	0.1950
41	30	90	528996	2644.98	DFT-s-OFDM QPSK	1@1	25.45	23.85	0.2427
41	30	90	528996	2644.98	DFT-s-OFDM 16 QAM	1@1	24.38	22.78	0.1897
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	135@67	25.36	23.76	0.2377

41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@1	25.44	23.84	0.2421
41	30	100	509202	2546.01	DFT-s-OFDM PI/2 BPSK	1@271	25.33	23.73	0.2360
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	135@67	25.3	23.7	0.2344
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@1	25.46	23.86	0.2432
41	30	100	509202	2546.01	DFT-s-OFDM QPSK	1@271	25.28	23.68	0.2333
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	135@67	24.82	23.22	0.2099
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@1	24.84	23.24	0.2109
41	30	100	509202	2546.01	DFT-s-OFDM 16 QAM	1@271	24.79	23.19	0.2084
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	135@67	23.34	21.74	0.1493
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@1	23.14	21.54	0.1426
41	30	100	509202	2546.01	DFT-s-OFDM 64 QAM	1@271	23.07	21.47	0.1403
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	135@67	21.35	19.75	0.0944
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@1	21.25	19.65	0.0923
41	30	100	509202	2546.01	DFT-s-OFDM 256 QAM	1@271	21.22	19.62	0.0916
41	30	100	509202	2546.01	CP-OFDM QPSK	137@68	24.34	22.74	0.1879
41	30	100	509202	2546.01	CP-OFDM QPSK	1@1	24.34	22.74	0.1879
41	30	100	509202	2546.01	CP-OFDM QPSK	1@271	24.31	22.71	0.1866
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	135@67	25.36	23.76	0.2377
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@1	25.51	23.91	0.2460
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@271	25.45	23.85	0.2427
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	135@67	25.36	23.76	0.2377
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@1	25.54	23.94	0.2477
41	30	100	518598	2592.99	DFT-s-OFDM QPSK	1@271	25.36	23.76	0.2377
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	135@67	24.84	23.24	0.2109
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@1	24.48	22.88	0.1941
41	30	100	518598	2592.99	DFT-s-OFDM 16 QAM	1@271	25.44	23.84	0.2421
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	135@67	23.34	21.74	0.1493

41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@1	22.87	21.27	0.1340
41	30	100	518598	2592.99	DFT-s-OFDM 64 QAM	1@271	23.69	22.09	0.1618
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	135@67	21.32	19.72	0.0938
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@1	21.01	19.41	0.0873
41	30	100	518598	2592.99	DFT-s-OFDM 256 QAM	1@271	21.82	20.22	0.1052
41	30	100	518598	2592.99	CP-OFDM QPSK	137@68	24.32	22.72	0.1871
41	30	100	518598	2592.99	CP-OFDM QPSK	1@1	24.08	22.48	0.1770
41	30	100	518598	2592.99	CP-OFDM QPSK	1@271	24.95	23.35	0.2163
41	30	100	528000	2640.0	DFT-s-OFDM PI/2 BPSK	135@67	25.51	23.91	0.2460
41	30	100	528000	2640.0	DFT-s-OFDM PI/2 BPSK	1@1	25.42	23.82	0.2410
41	30	100	528000	2640.0	DFT-s-OFDM PI/2 BPSK	1@271	25.4	23.8	0.2399
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	135@67	25.51	23.91	0.2460
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@1	25.45	23.85	0.2427
41	30	100	528000	2640.0	DFT-s-OFDM QPSK	1@271	25.33	23.73	0.2360
41	30	100	528000	2640.0	DFT-s-OFDM 16 QAM	135@67	25.14	23.54	0.2259
41	30	100	528000	2640.0	DFT-s-OFDM 16 QAM	1@1	24.46	22.86	0.1932
41	30	100	528000	2640.0	DFT-s-OFDM 16 QAM	1@271	25.37	23.77	0.2382
41	30	100	528000	2640.0	DFT-s-OFDM 64 QAM	135@67	23.6	22	0.1585
41	30	100	528000	2640.0	DFT-s-OFDM 64 QAM	1@1	22.64	21.04	0.1271
41	30	100	528000	2640.0	DFT-s-OFDM 64 QAM	1@271	23.61	22.01	0.1589
41	30	100	528000	2640.0	DFT-s-OFDM 256 QAM	135@67	21.57	19.97	0.0993
41	30	100	528000	2640.0	DFT-s-OFDM 256 QAM	1@1	20.85	19.25	0.0841
41	30	100	528000	2640.0	DFT-s-OFDM 256 QAM	1@271	21.9	20.3	0.1072
41	30	100	528000	2640.0	CP-OFDM QPSK	137@68	24.58	22.98	0.1986
41	30	100	528000	2640.0	CP-OFDM QPSK	1@1	23.9	22.3	0.1698
41	30	100	528000	2640.0	CP-OFDM QPSK	1@271	24.89	23.29	0.2133

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0062	**PASS**	NV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0029	**PASS**	LV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0033	**PASS**	HV
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0067	**PASS**	-30℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0024	**PASS**	-20℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0022	**PASS**	-10℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0033	**PASS**	0℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0041	**PASS**	10℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0062	**PASS**	20℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0036	**PASS**	30℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0032	**PASS**	40℃
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	0.0064	**PASS**	50℃

Peak to Average Radio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	50@0	6.68	13	**PASS**
41	30	20	501204	2506.02	DFT-s-OFDM PI/2 BPSK	1@0	6.87	13	**PASS**
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	50@0	8.02	13	**PASS**
41	30	20	501204	2506.02	DFT-s-OFDM QPSK	1@0	7.84	13	**PASS**
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	50@0	6.83	13	**PASS**
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	1@0	7.13	13	**PASS**
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	8.21	13	**PASS**
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	1@0	8.64	13	**PASS**
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	50@0	6.9	13	**PASS**
41	30	20	535998	2679.99	DFT-s-OFDM PI/2 BPSK	1@0	7.17	13	**PASS**
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	50@0	8.29	13	**PASS**
41	30	20	535998	2679.99	DFT-s-OFDM QPSK	1@0	9.18	13	**PASS**

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Low_CH

Spectrum Analyzer 1	Power Stat CCDF

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: RF Burst   Center Freq: 2.500020000 GHz
R T   Coupling: DC   Corr CCorr   Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Metrics   2 Graph   Gaussian

Average Power
21.93 dBm
45.15 % at 0 dB

10.0 %	4.06 dB
1.0 %	5.92 dB
0.1 %	6.68 dB
0.01 %	6.91 dB
0.001 %	7.01 dB
0.0001 %	7.05 dB
Peak	7.11 dB
	29.04 dBm

0.00 dB   20.00 dB
Info BW 25.000 MHz
Nov 12, 2022 3:06:51 AM

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Low_CH

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: RF Burst   Center Freq: 2.500020000 GHz
R T   Coupling: DC   Corr CCorr   Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Metrics   2 Graph   Gaussian

Average Power
21.93 dBm
43.40 % at 0 dB

10.0 %	4.43 dB
1.0 %	6.33 dB
0.1 %	6.87 dB
0.01 %	6.90 dB
0.001 %	6.92 dB
0.0001 %	6.93 dB
Peak	6.98 dB
	28.91 dBm

0.00 dB   20.00 dB
Info BW 25.000 MHz
Nov 12, 2022 3:07:15 AM

N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: RF Burst   Center Freq: 2.500020000 GHz
R T   Coupling: DC   Corr CCorr   Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Metrics   2 Graph   Gaussian

Average Power
21.38 dBm
41.45 % at 0 dB

10.0 %	4.35 dB
1.0 %	6.79 dB
0.1 %	8.02 dB
0.01 %	8.33 dB
0.001 %	8.50 dB
0.0001 %	8.58 dB
Peak	8.62 dB
	30.00 dBm

0.00 dB   20.00 dB
Info BW 25.000 MHz
Nov 12, 2022 3:07:40 AM

N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: RF Burst   Center Freq: 2.500020000 GHz
R T   Coupling: DC   Corr CCorr   Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Metrics   2 Graph   Gaussian

Average Power
21.47 dBm
39.53 % at 0 dB

10.0 %	4.71 dB
1.0 %	7.00 dB
0.1 %	7.84 dB
0.01 %	8.06 dB
0.001 %	8.10 dB
0.0001 %	8.10 dB
Peak	8.15 dB
	29.62 dBm

0.00 dB   20.00 dB
Info BW 25.000 MHz
Nov 12, 2022 3:08:04 AM

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: RF Burst   Center Freq: 2.592960000 GHz
R T   Coupling: DC   Corr CCorr   Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Metrics   2 Graph   Gaussian

Average Power
21.83 dBm
44.78 % at 0 dB

10.0 %	4.08 dB
1.0 %	6.04 dB
0.1 %	6.83 dB
0.01 %	7.07 dB
0.001 %	7.19 dB
0.0001 %	7.22 dB
Peak	7.27 dB
	29.10 dBm

0.00 dB   20.00 dB
Info BW 25.000 MHz
Nov 12, 2022 3:08:35 AM

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_Mid_CH

KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: RF Burst   Center Freq: 2.592960000 GHz
R T   Coupling: DC   Corr CCorr   Trig Delay: 500.0 µs Counts: 1.00 M/1.00 Mpt
Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Metrics   2 Graph   Gaussian

Average Power
21.86 dBm
42.66 % at 0 dB

10.0 %	4.49 dB
1.0 %	6.55 dB
0.1 %	7.13 dB
0.01 %	7.16 dB
0.001 %	7.17 dB
0.0001 %	7.18 dB
Peak	7.22 dB
	29.08 dBm

0.00 dB   20.00 dB
Info BW 25.000 MHz
Nov 12, 2022 3:09:00 AM

N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH
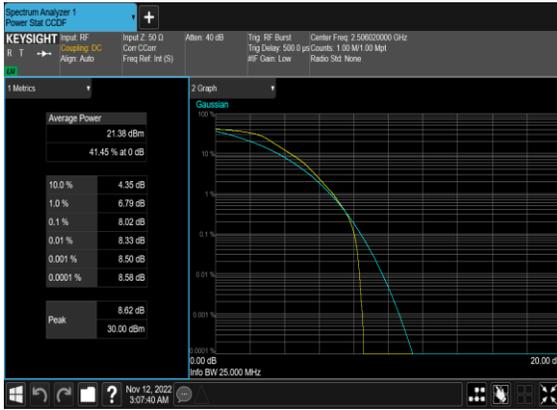

N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_High_CH

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Edge_1RB_Left_High_CH

N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

N41(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
41	30	20	518598	2592.99	DFT-s-OFDM PI/2 BPSK	50@0	17.819	19.36
41	30	20	518598	2592.99	DFT-s-OFDM QPSK	50@0	17.844	19.14
41	30	20	518598	2592.99	CP-OFDM QPSK	51@0	18.221	19.71
41	30	20	518598	2592.99	CP-OFDM 16 QAM	51@0	18.206	19.84
41	30	20	518598	2592.99	CP-OFDM 64 QAM	51@0	18.245	19.93
41	30	20	518598	2592.99	CP-OFDM 256 QAM	51@0	18.218	19.64
41	30	30	518598	2592.99	DFT-s-OFDM PI/2 BPSK	75@0	26.732	27.98
41	30	30	518598	2592.99	DFT-s-OFDM QPSK	75@0	26.822	28.43
41	30	30	518598	2592.99	CP-OFDM QPSK	78@0	27.835	29.53
41	30	30	518598	2592.99	CP-OFDM 16 QAM	78@0	27.874	29.55
41	30	30	518598	2592.99	CP-OFDM 64 QAM	78@0	27.844	29.63
41	30	30	518598	2592.99	CP-OFDM 256 QAM	78@0	27.862	30.0
41	30	40	518598	2592.99	DFT-s-OFDM PI/2 BPSK	100@0	35.695	37.64
41	30	40	518598	2592.99	DFT-s-OFDM QPSK	100@0	35.773	37.54
41	30	40	518598	2592.99	CP-OFDM QPSK	106@0	37.807	39.83
41	30	40	518598	2592.99	CP-OFDM 16 QAM	106@0	37.783	39.61
41	30	40	518598	2592.99	CP-OFDM 64 QAM	106@0	37.856	39.59
41	30	40	518598	2592.99	CP-OFDM 256 QAM	106@0	37.917	39.71
41	30	50	518598	2592.99	DFT-s-OFDM PI/2 BPSK	128@0	45.724	47.63
41	30	50	518598	2592.99	DFT-s-OFDM QPSK	128@0	45.768	47.75
41	30	50	518598	2592.99	CP-OFDM QPSK	133@0	47.533	49.61
41	30	50	518598	2592.99	CP-OFDM 16 QAM	133@0	47.431	49.44
41	30	50	518598	2592.99	CP-OFDM 64 QAM	133@0	47.558	49.42
41	30	50	518598	2592.99	CP-OFDM 256 QAM	133@0	47.433	49.36

41	30	60	518598	2592.99	DFT-s-OFDM PI/2 BPSK	162@0	57.906	60.3
41	30	60	518598	2592.99	DFT-s-OFDM QPSK	162@0	57.871	60.06
41	30	60	518598	2592.99	CP-OFDM QPSK	162@0	57.846	59.93
41	30	60	518598	2592.99	CP-OFDM 16 QAM	162@0	57.823	60.05
41	30	60	518598	2592.99	CP-OFDM 64 QAM	162@0	57.866	60.09
41	30	60	518598	2592.99	CP-OFDM 256 QAM	162@0	57.836	59.87
41	30	70	518598	2592.99	DFT-s-OFDM PI/2 BPSK	180@0	64.249	66.53
41	30	70	518598	2592.99	DFT-s-OFDM QPSK	180@0	64.303	66.47
41	30	70	518598	2592.99	CP-OFDM QPSK	189@0	67.488	69.61
41	30	70	518598	2592.99	CP-OFDM 16 QAM	189@0	67.399	69.83
41	30	70	518598	2592.99	CP-OFDM 64 QAM	189@0	67.448	69.82
41	30	70	518598	2592.99	CP-OFDM 256 QAM	189@0	67.361	69.83
41	30	80	518598	2592.99	DFT-s-OFDM PI/2 BPSK	216@0	77.22	79.76
41	30	80	518598	2592.99	DFT-s-OFDM QPSK	216@0	77.138	79.7
41	30	80	518598	2592.99	CP-OFDM QPSK	217@0	77.492	79.99
41	30	80	518598	2592.99	CP-OFDM 16 QAM	217@0	77.544	80.18
41	30	80	518598	2592.99	CP-OFDM 64 QAM	217@0	77.494	80.3
41	30	80	518598	2592.99	CP-OFDM 256 QAM	217@0	77.496	80.1
41	30	90	518598	2592.99	DFT-s-OFDM PI/2 BPSK	240@0	85.646	88.45
41	30	90	518598	2592.99	DFT-s-OFDM QPSK	240@0	85.741	88.6
41	30	90	518598	2592.99	CP-OFDM QPSK	245@0	87.484	90.48
41	30	90	518598	2592.99	CP-OFDM 16 QAM	245@0	87.399	90.31
41	30	90	518598	2592.99	CP-OFDM 64 QAM	245@0	87.514	90.47
41	30	90	518598	2592.99	CP-OFDM 256 QAM	245@0	87.469	90.41
41	30	100	518598	2592.99	DFT-s-OFDM PI/2 BPSK	270@0	96.434	99.56
41	30	100	518598	2592.99	DFT-s-OFDM	270@0	96.386	99.44

					QPSK			
41	30	100	518598	2592.99	CP-OFDM QPSK	273@0	97.482	100.8
41	30	100	518598	2592.99	CP-OFDM 16 QAM	273@0	97.566	100.9
41	30	100	518598	2592.99	CP-OFDM 64 QAM	273@0	97.462	100.7
41	30	100	518598	2592.99	CP-OFDM 256 QAM	273@0	97.511	100.7

N41(20M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH
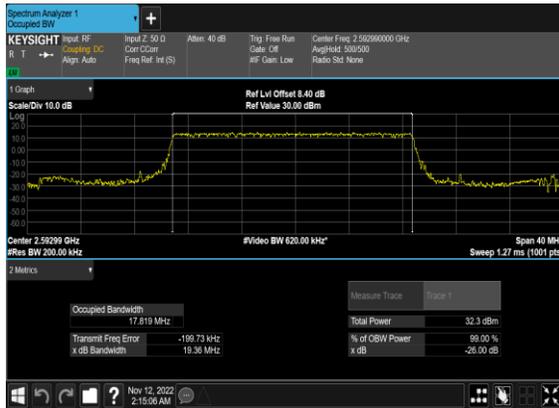
N41(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N41(20M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N41(20M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

N41(20M)_CP-OFDM_64QAM_Outer_Full_Mid_CH

N41(20M)_CP-OFDM_256QAM_Outer_Full_Mid_CH

N41(30M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

Occupied Bandwidth 26.732 MHz
Transmit Freq Error -535.11 kHz
x dB Bandwidth 27.98 MHz
Total Power 32.1 dBm
% of OBW Power 99.00 %
x dB -26.00 dB

N41(30M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Occupied Bandwidth 26.822 MHz
Transmit Freq Error -504.99 kHz
x dB Bandwidth 28.43 MHz
Total Power 31.4 dBm
% of OBW Power 99.00 %
x dB -26.00 dB

N41(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Occupied Bandwidth 27.835 MHz
Transmit Freq Error 31.696 kHz
x dB Bandwidth 29.53 MHz
Total Power 28.6 dBm
% of OBW Power 99.00 %
x dB -26.00 dB

N41(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Occupied Bandwidth 27.674 MHz
Transmit Freq Error -3.023 kHz
x dB Bandwidth 29.55 MHz
Total Power 28.7 dBm
% of OBW Power 99.00 %
x dB -26.00 dB

N41(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Occupied Bandwidth 27.844 MHz
Transmit Freq Error -930 Hz
x dB Bandwidth 29.63 MHz
Total Power 28.2 dBm
% of OBW Power 99.00 %
x dB -26.00 dB

N41(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Occupied Bandwidth 27.862 MHz
Transmit Freq Error 12.576 kHz
x dB Bandwidth 30.00 MHz
Total Power 25.2 dBm
% of OBW Power 99.00 %
x dB -26.00 dB

N41(40M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

N41(40M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

N41(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
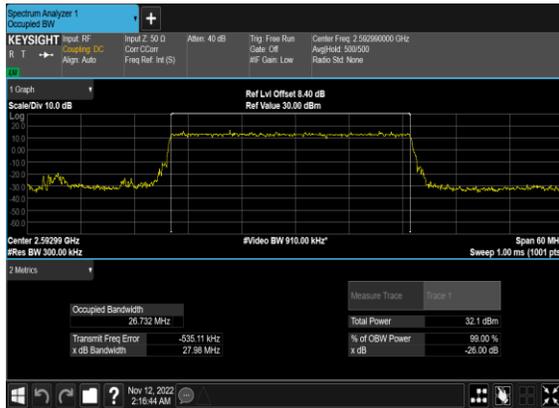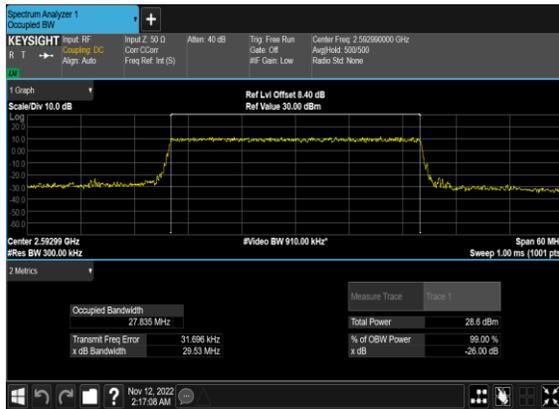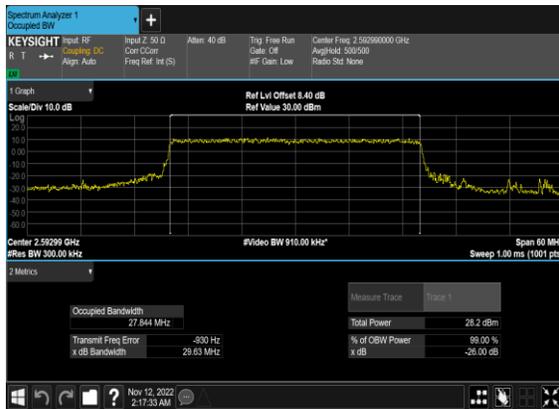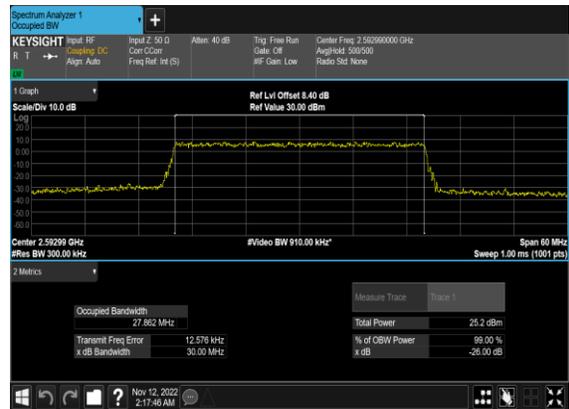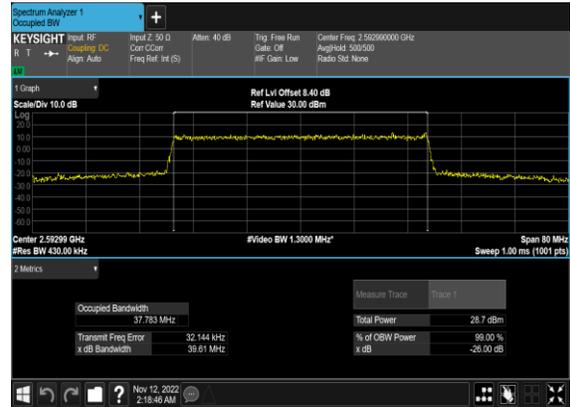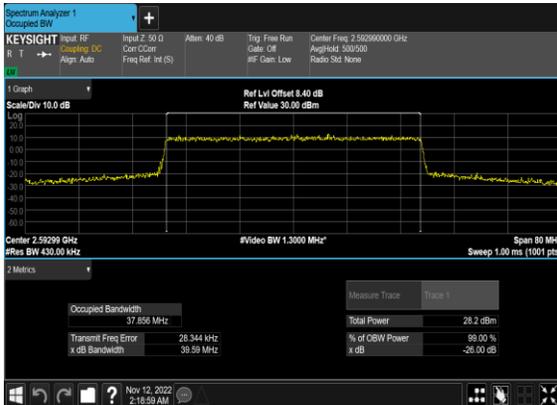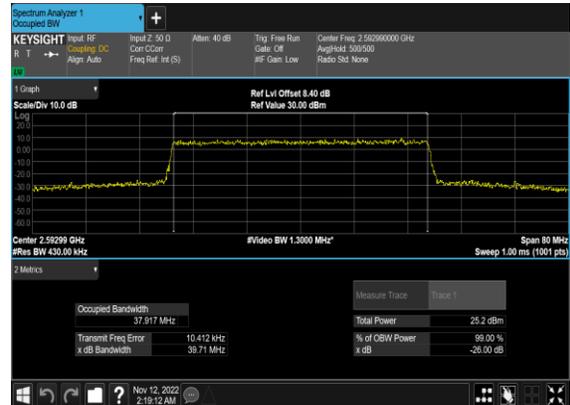

N41(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N41(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N41(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N41(50M)_DFT-s-OFDM_PI_2-BPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.592960000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   Avg|Hold: 500/500
      Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 8.40 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 1.5000 MHz*   Span 100 MHz
#Res BW 510.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
                                          Measure Trace   Trace 1
Occupied Bandwidth
         45.724 MHz   Total Power   30.9 dBm
Transmit Freq Error   -848.62 kHz % of OBW Power   99.00 %
x dB Bandwidth   47.63 MHz   x dB   -26.00 dB

Nov 12, 2022 2:19:39 AM

N41(50M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.592960000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   Avg|Hold: 500/500
      Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 8.40 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 1.5000 MHz*   Span 100 MHz
#Res BW 510.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
                                          Measure Trace   Trace 1
Occupied Bandwidth
         45.768 MHz   Total Power   30.5 dBm
Transmit Freq Error   -864.99 kHz % of OBW Power   99.00 %
x dB Bandwidth   47.75 MHz   x dB   -26.00 dB

Nov 12, 2022 2:19:51 AM

N41(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.592960000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   Avg|Hold: 500/500
      Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 8.40 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 1.5000 MHz*   Span 100 MHz
#Res BW 510.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
                                          Measure Trace   Trace 1
Occupied Bandwidth
         47.533 MHz   Total Power   28.5 dBm
Transmit Freq Error   69.309 kHz   % of OBW Power   99.00 %
x dB Bandwidth   49.61 MHz   x dB   -26.00 dB

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N41(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.592960000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   Avg|Hold: 500/500
      Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 8.40 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 1.5000 MHz*   Span 100 MHz
#Res BW 510.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
                                          Measure Trace   Trace 1
Occupied Bandwidth
         47.431 MHz   Total Power   28.5 dBm
Transmit Freq Error   17.677 kHz   % of OBW Power   99.00 %
x dB Bandwidth   49.44 MHz   x dB   -26.00 dB

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N41(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.592960000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   Avg|Hold: 500/500
      Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 8.40 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 1.5000 MHz*   Span 100 MHz
#Res BW 510.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
                                          Measure Trace   Trace 1
Occupied Bandwidth
         47.558 MHz   Total Power   27.8 dBm
Transmit Freq Error   55.518 kHz   % of OBW Power   99.00 %
x dB Bandwidth   49.42 MHz   x dB   -26.00 dB

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N41(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

Spectrum Analyzer 1
Occupied BW
KEYSIGHT Input: RF   Input Z: 50 Ω   Atten: 40 dB   Trig: Free Run   Center Freq: 2.592960000 GHz
R T   Coupling: DC   Corr CCorr   Gate: Off   Avg|Hold: 500/500
      Align: Auto   Freq Ref: Int (S)   #IF Gain: Low   Radio Std: None

1 Graph
Scale/Div 10.0 dB   Ref Lvl Offset 8.40 dB
Log   Ref Value 30.00 dBm

Center 2.59299 GHz   #Video BW 1.5000 MHz*   Span 100 MHz
#Res BW 510.00 kHz   Sweep 1.00 ms (1001 pts)

2 Metrics
                                          Measure Trace   Trace 1
Occupied Bandwidth
         47.433 MHz   Total Power   25.1 dBm
Transmit Freq Error   28.033 kHz   % of OBW Power   99.00 %
x dB Bandwidth   49.36 MHz   x dB   -26.00 dB

Nov 12, 2022 2:20:42 AM