WCDMA Band4 Test Data

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Appendix A: Effective (Isotropic) Radiated Power Output Data

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Appendix B: Peak-to-Average Ratio

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Appendix C: 26dB Bandwidth and Occupied Bandwidth

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Appendix D: Band Edge

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Appendix E: Conducted Spurious Emission

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Appendix F: Frequency Stability

AppendixA: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	22.18	30.00	PASS
Band4	1413	22.45	30.00	PASS
Band4	1513	22.36	30.00	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.26	30.00	PASS
Band4	1312	2	20.76	30.00	PASS
Band4	1312	3	20.76	30.00	PASS
Band4	1312	4	20.73	30.00	PASS
Band4	1413	1	21.50	30.00	PASS
Band4	1413	2	21.03	30.00	PASS
Band4	1413	3	21.03	30.00	PASS
Band4	1413	4	21.03	30.00	PASS
Band4	1513	1	21.43	30.00	PASS
Band4	1513	2	20.92	30.00	PASS
Band4	1513	3	20.93	30.00	PASS
Band4	1513	4	20.94	30.00	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.22	30.00	PASS
Band4	1312	2	19.72	30.00	PASS
Band4	1312	3	20.30	30.00	PASS
Band4	1312	4	19.16	30.00	PASS
Band4	1312	5	21.17	30.00	PASS
Band4	1413	1	21.44	30.00	PASS
Band4	1413	2	20.02	30.00	PASS
Band4	1413	3	20.45	30.00	PASS
Band4	1413	4	19.46	30.00	PASS
Band4	1413	5	21.52	30.00	PASS
Band4	1513	1	21.39	30.00	PASS

Band4	1513	2	19.86	30.00	PASS
Band4	1513	3	20.44	30.00	PASS
Band4	1513	4	19.37	30.00	PASS
Band4	1513	5	21.02	30.00	PASS

AppendixB:Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.09	13	PASS
Band4	1413	3.01	13	PASS
Band4	1513	3.08	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	3.21	13	PASS
Band4	1312	2	3.6	13	PASS
Band4	1312	3	3.79	13	PASS
Band4	1312	4	3.84	13	PASS
Band4	1413	1	3.09	13	PASS
Band4	1413	2	3.63	13	PASS
Band4	1413	3	3.84	13	PASS
Band4	1413	4	3.88	13	PASS
Band4	1513	1	3.2	13	PASS
Band4	1513	2	3.58	13	PASS
Band4	1513	3	3.79	13	PASS
Band4	1513	4	3.82	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	4.45	13	PASS
Band4	1312	2	5.34	13	PASS
Band4	1312	3	5.32	13	PASS
Band4	1312	4	4.06	13	PASS
Band4	1312	5	4.27	13	PASS
Band4	1413	1	4.34	13	PASS
Band4	1413	2	5.22	13	PASS
Band4	1413	3	5.18	13	PASS
Band4	1413	4	3.96	13	PASS
Band4	1413	5	4.19	13	PASS
Band4	1513	1	4.53	13	PASS

Band4	1513	2	5.34	13	PASS
Band4	1513	3	5.33	13	PASS
Band4	1513	4	5.37	13	PASS
Band4	1513	5	4.3	13	PASS

Test Graphs

Band4-1312
Band4-1413
Band4-1513

Spectrum Analyzer 1
Power Stat CCDF
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
Atten: 30 dB
Trig: Free Run
IFF Gain: Low
Center Freq: 1.752600000 GHz
Counts: 1.00 M/1.00 Mpt
Radio Std: None
Frequency
Center Frequency
1.752600000 GHz
Settings
CF Step
5.000000 MHz
Auto
Man
Freq Offset
0 Hz
1 Metrics
Average Power
28.31 dBm
53.67 % at 0 dB
10.0 % 1.68 dB
1.0 % 2.59 dB
0.1 % 3.08 dB
0.01 % 3.32 dB
0.001 % 3.42 dB
0.0001 % 3.49 dB
Peak
3.49 dB
31.80 dBm
2 Graph
Gaussian
0.00 dB
20.00 dB
Info BW 5.0000 MHz
Oct 09, 2024
7:25:12 PM

Band4-1312-1

Band4-1312-2

Band4-1312-3

Band4-1312-4

Band4-1413-1

Band4-1413-2

Band4-1413-3

Band4-1413-4

Band4-1513-1

Band4-1513-2

Band4-1513-3

Band4-1513-4

Band4-1312-1

Band4-1312-2

Band4-1312-3

Band4-1312-4

Band4-1312-5

Band4-1413-1

Band4-1413-2

Band4-1413-3

Band4-1413-4

Band4-1413-5

Band4-1513-1

Band4-1513-2

Band4-1513-3

Band4-1513-4

Band4-1513-5

AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	4.1467	4.730	---	PASS
Band4	1413	4.1467	4.729	---	PASS
Band4	1513	4.1414	4.720	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	1	4.1411	4.696	---	PASS
Band4	1312	2	4.1474	4.715	---	PASS
Band4	1312	3	4.1467	4.718	---	PASS
Band4	1312	4	4.1501	4.714	---	PASS
Band4	1413	1	4.1422	4.734	---	PASS
Band4	1413	2	4.1477	4.708	---	PASS
Band4	1413	3	4.1413	4.720	---	PASS
Band4	1413	4	4.1447	4.731	---	PASS
Band4	1513	1	4.1455	4.715	---	PASS
Band4	1513	2	4.1484	4.715	---	PASS
Band4	1513	3	4.1456	4.720	---	PASS
Band4	1513	4	4.1422	4.716	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	1	4.1519	4.741	---	PASS
Band4	1312	2	4.1555	4.729	---	PASS
Band4	1312	3	4.1526	4.728	---	PASS
Band4	1312	4	4.1443	4.713	---	PASS
Band4	1312	5	4.1416	4.723	---	PASS
Band4	1413	1	4.1524	4.743	---	PASS
Band4	1413	2	4.1565	4.738	---	PASS
Band4	1413	3	4.1563	4.745	---	PASS

Band4	1413	4	4.1457	4.729	---	PASS
Band4	1413	5	4.1473	4.718	---	PASS
Band4	1513	1	4.1478	4.732	---	PASS
Band4	1513	2	4.1486	4.734	---	PASS
Band4	1513	3	4.1472	4.732	---	PASS
Band4	1513	4	4.1526	4.737	---	PASS
Band4	1513	5	4.1371	4.728	---	PASS

Test Graphs

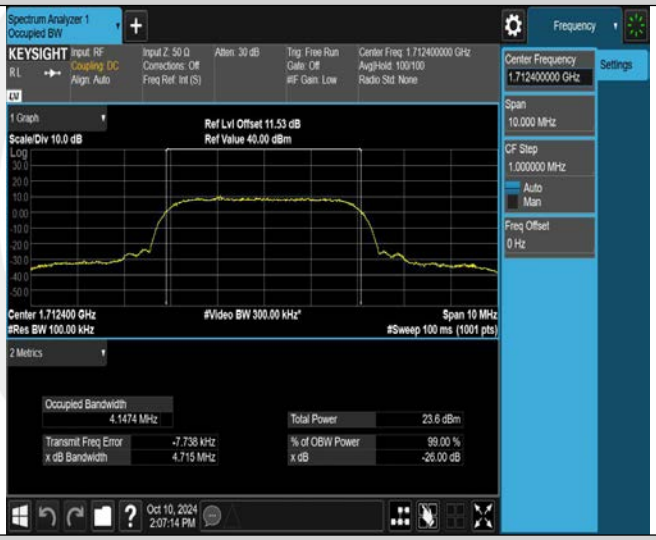
Band4-1312

Band4-1413

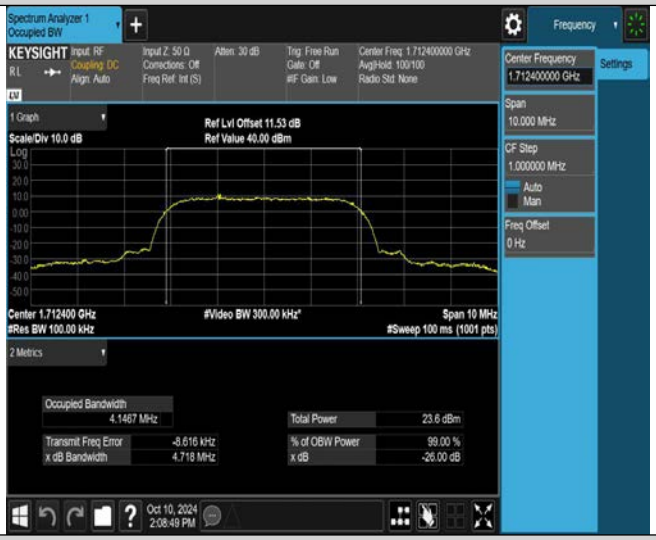
Band4-1513

Band4-1312-1

Band4-1312-2



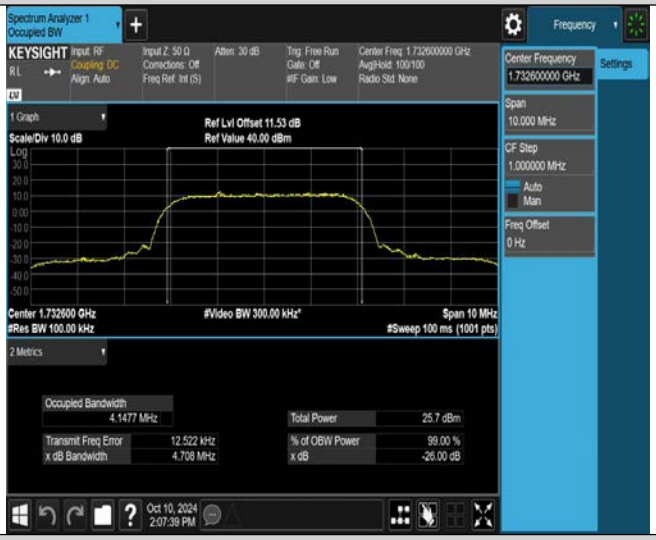
Band4-1312-3



Band4-1312-4

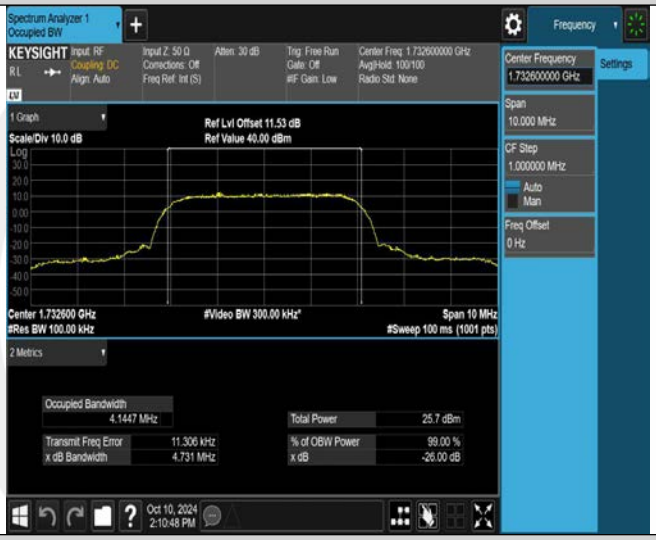
Band4-1413-1

Band4-1413-2



Band4-1413-3

Band4-1413-4



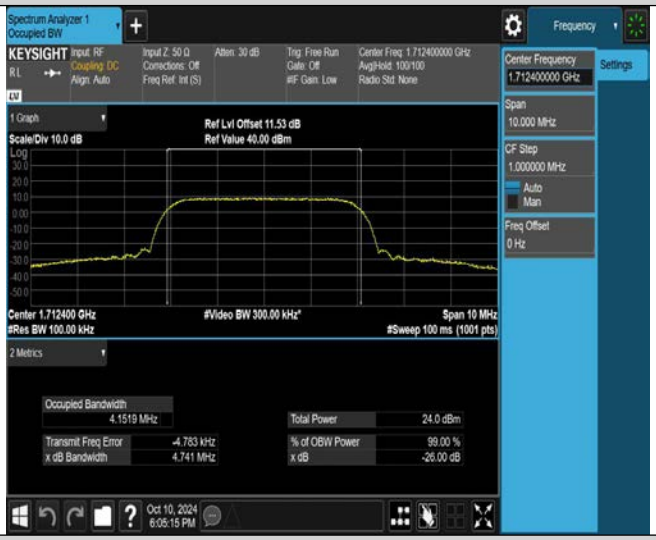
Band4-1513-1

Band4-1513-2

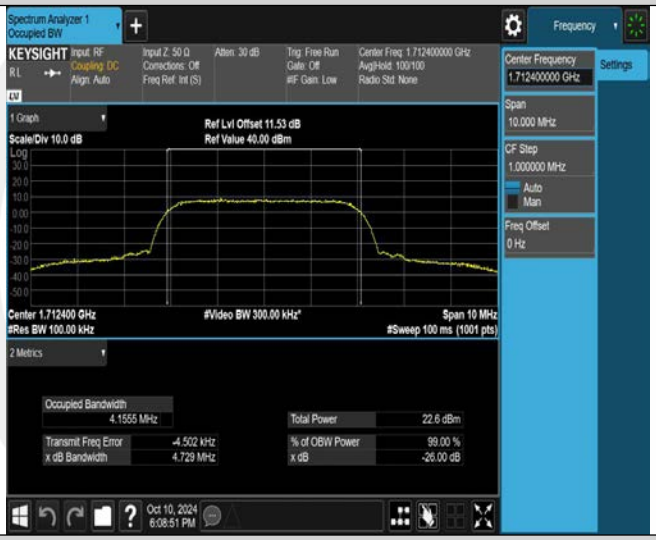
Band4-1513-3

Band4-1513-4

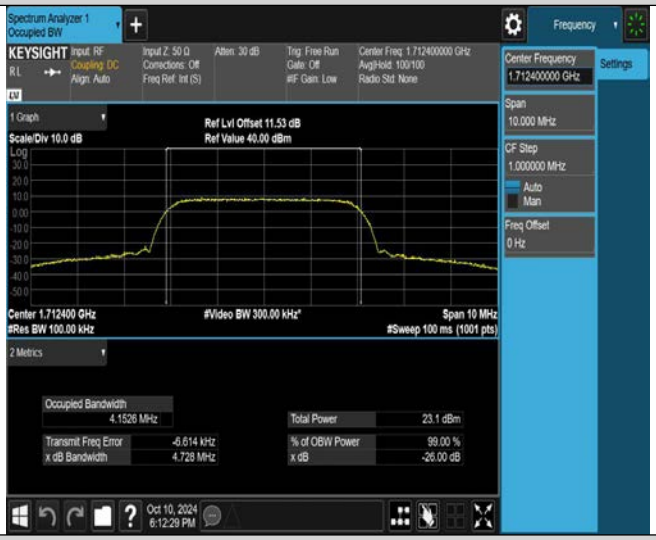
Band4-1312-1



Band4-1312-2

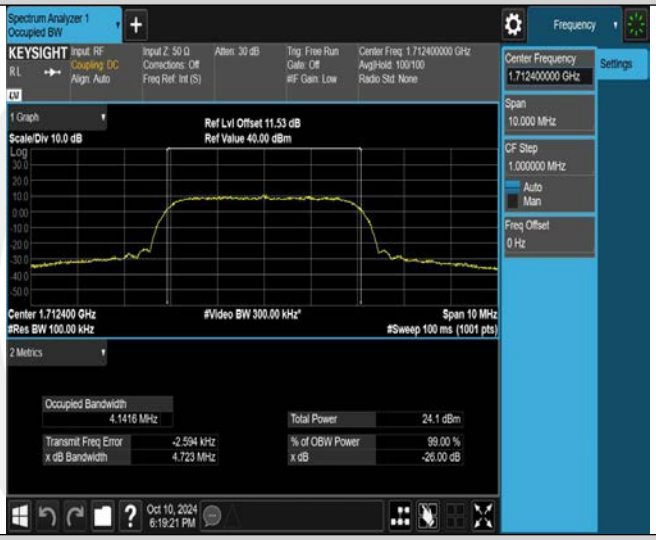


Band4-1312-3



Band4-1312-4

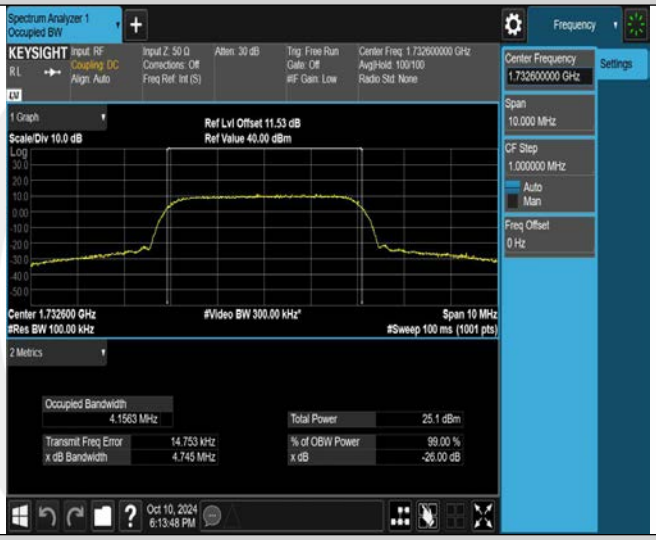
Band4-1312-5



Band4-1413-1

Band4-1413-2

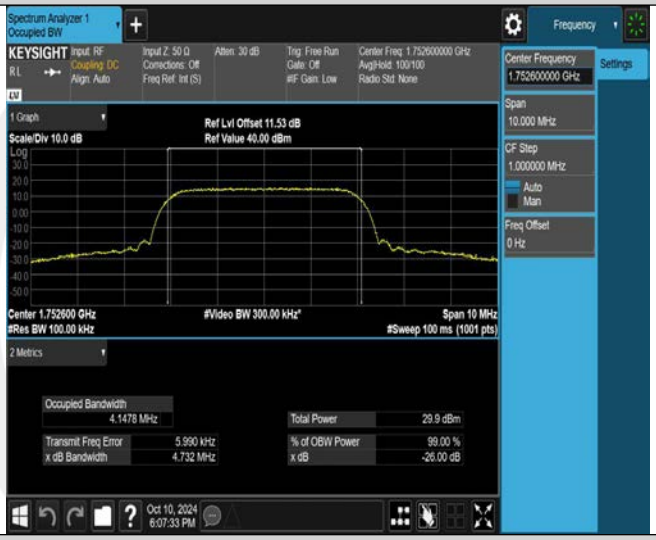
Band4-1413-3



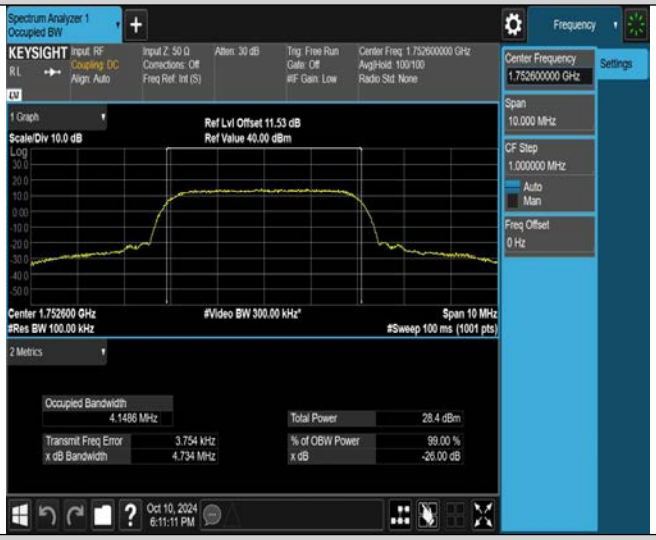
Band4-1413-4

Band4-1413-5

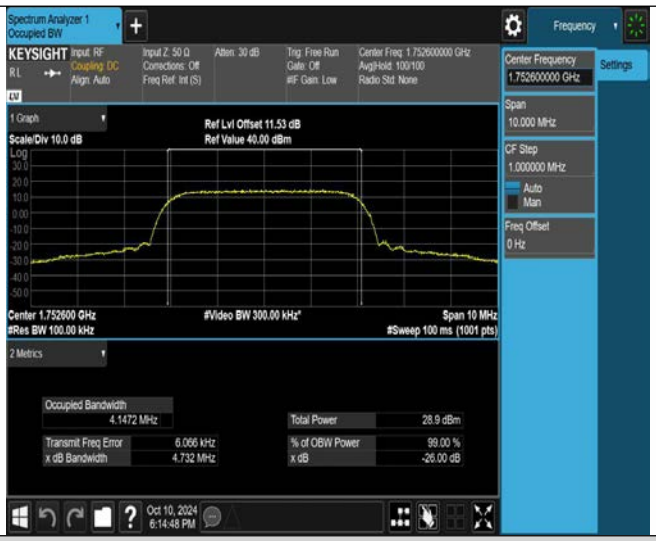
Band4-1513-1



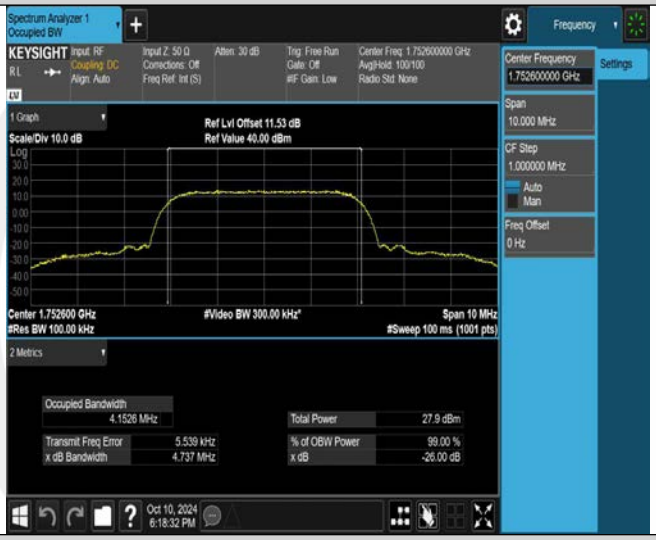
Band4-1513-2



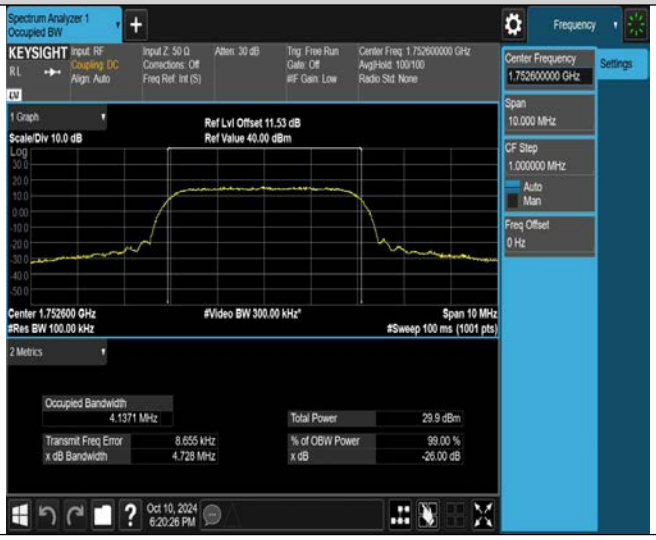
Band4-1513-3



Band4-1513-4



Band4-1513-5



AppendixD:Band Edge

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1710.00	-21.80	-13	PASS
Band4	1513	1755.00	-15.95	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1710.00	-23.06	-13	PASS
Band4	1312	2	1710.00	-22.17	-13	PASS
Band4	1312	3	1710.00	-21.83	-13	PASS
Band4	1312	4	1710.00	-21.58	-13	PASS
Band4	1513	1	1755.00	-17.15	-13	PASS
Band4	1513	2	1755.00	-16.44	-13	PASS
Band4	1513	3	1755.00	-16.04	-13	PASS
Band4	1513	4	1755.00	-15.85	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1710.00	-22.56	-13	PASS
Band4	1312	2	1710.00	-23.10	-13	PASS
Band4	1312	3	1710.00	-23.03	-13	PASS
Band4	1312	4	1710.00	-23.56	-13	PASS
Band4	1312	5	1710.00	-22.24	-13	PASS
Band4	1513	1	1755.00	-16.98	-13	PASS
Band4	1513	2	1755.00	-17.62	-13	PASS
Band4	1513	3	1755.00	-17.35	-13	PASS
Band4	1513	4	1755.00	-17.77	-13	PASS
Band4	1513	5	1755.00	-16.57	-13	PASS

Test Graphs

Band4-1312
Band4-1513

Band4-1312-1

Band4-1312-2

Band4-1312-3

Band4-1312-4

Band4-1513-1

Band4-1513-2

Band4-1513-3

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Ref Lvl Offset 11.53 dB
Ref Level 31.53 dBm
Mkr1 1.755 000 GHz
-16.038 dBm
Scale/Div 10 dB
Log
Center 1.755000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Span 2.000 MHz
#Sweep 100 ms (601 pts)
Oct 10, 2024
2:14:44 PM
Frequency
Settings
Center Frequency
1.755000000 GHz
Span
2.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
1.754000000 GHz
Stop Freq
1.756000000 GHz
AUTO TUNE
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)

Band4-1513-4

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Ref Lvl Offset 11.53 dB
Ref Level 31.53 dBm
Mkr1 1.755 000 GHz
-15.849 dBm
Scale/Div 10 dB
Log
Center 1.755000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Span 2.000 MHz
#Sweep 100 ms (601 pts)
Oct 10, 2024
2:15:50 PM
Frequency
Settings
Center Frequency
1.755000000 GHz
Span
2.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
1.754000000 GHz
Stop Freq
1.756000000 GHz
AUTO TUNE
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)

Band4-1312-1

Band4-1312-2

Band4-1312-3

Band4-1312-4

Band4-1312-5

Band4-1513-1

Band4-1513-2

Band4-1513-3

Band4-1513-4

Band4-1513-5

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS)
Avg|Hold: 100/100
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 11.53 dB
Ref Level 31.53 dBm
Mkr1 1.755 000 GHz
-16.571 dBm
Center 1.755000 GHz
#Res BW 100 kHz
#Video BW 300 kHz
Span 2.000 MHz
#Sweep 100 ms (601 pts)
Oct 10, 2024
6:32:22 PM
Frequency
Settings
Center Frequency
1.755000000 GHz
Span
2.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
1.754000000 GHz
Stop Freq
1.756000000 GHz
AUTO TUNE
CF Step
200.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)

AppendixE:Conducted SpuriousEmission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.02	-48.27	-43	PASS
Band4	1312	0.15~30MHz	0.17	-37.82	-33	PASS
Band4	1312	30~1000MHz	191.7	-56.29	-23	PASS
Band4	1312	1000~3000MHz	2155.13	-28.2	-13	PASS
Band4	1312	3000~10000MHz	3116.2	-45.59	-13	PASS
Band4	1312	10000~20000MHz	19436.67	-41.88	-13	PASS
Band4	1413	0.009~0.15MHz	0.03	-48.84	-43	PASS
Band4	1413	0.15~30MHz	0.16	-37.73	-33	PASS
Band4	1413	30~1000MHz	206.31	-55.89	-23	PASS
Band4	1413	1000~3000MHz	2133.27	-28.5	-13	PASS
Band4	1413	3000~10000MHz	3466.67	-42.02	-13	PASS
Band4	1413	10000~20000MHz	19412	-42.02	-13	PASS
Band4	1513	0.009~0.15MHz	0.02	-48.69	-43	PASS
Band4	1513	0.15~30MHz	0.18	-37.53	-33	PASS
Band4	1513	30~1000MHz	183.29	-56.41	-23	PASS
Band4	1513	1000~3000MHz	2051.53	-28.55	-13	PASS
Band4	1513	3000~10000MHz	3503.07	-44.51	-13	PASS
Band4	1513	10000~20000MHz	19894	-41.86	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.15~30MHz	0.26	-38.22	-33	PASS
Band4	1312	1	30~1000MHz	182.48	-55.8	-23	PASS
Band4	1312	1	1000~3000MHz	2150.47	-28.55	-13	PASS
Band4	1312	1	3000~10000MHz	3112	-45.69	-13	PASS
Band4	1312	1	10000~20000MHz	19462.33	-42.11	-13	PASS
Band4	1312	1	0.009~0.15MHz	0.02	-47.63	-43	PASS
Band4	1312	2	1000~3000MHz	2139.47	-28.54	-13	PASS
Band4	1312	2	0.009~0.15MHz	0.02	-48.08	-43	PASS
Band4	1312	2	3000~10000MHz	3208.37	-45.62	-13	PASS
Band4	1312	2	30~1000MHz	196.84	-55.98	-23	PASS
Band4	1312	2	0.15~30MHz	0.27	-37.66	-33	PASS

Band4	1312	2	10000~20000MHz	19953	-41.89	-13	PASS
Band4	1312	3	0.15~30MHz	0.17	-37.53	-33	PASS
Band4	1312	3	30~1000MHz	190.18	-55.96	-23	PASS
Band4	1312	3	10000~20000MHz	19430.67	-41.92	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.03	-48.83	-43	PASS
Band4	1312	3	3000~10000MHz	3083.07	-45.69	-13	PASS
Band4	1312	3	1000~3000MHz	2043.73	-28.56	-13	PASS
Band4	1312	4	0.15~30MHz	0.16	-37.38	-33	PASS
Band4	1312	4	30~1000MHz	167.77	-56.08	-23	PASS
Band4	1312	4	1000~3000MHz	2030.53	-28.55	-13	PASS
Band4	1312	4	10000~20000MHz	19441.33	-42.05	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.02	-48.88	-43	PASS
Band4	1312	4	3000~10000MHz	3134.87	-45.54	-13	PASS
Band4	1413	1	10000~20000MHz	19915	-41.99	-13	PASS
Band4	1413	1	3000~10000MHz	3466.67	-42.62	-13	PASS
Band4	1413	1	1000~3000MHz	2040.87	-28.47	-13	PASS
Band4	1413	1	30~1000MHz	200.69	-56.2	-23	PASS
Band4	1413	1	0.009~0.15MHz	0.02	-48.76	-43	PASS
Band4	1413	1	0.15~30MHz	0.19	-36.06	-33	PASS
Band4	1413	2	0.15~30MHz	0.17	-37.8	-33	PASS
Band4	1413	2	30~1000MHz	170	-56.44	-23	PASS
Band4	1413	2	1000~3000MHz	2116.6	-28.57	-13	PASS
Band4	1413	2	3000~10000MHz	3466.9	-42.88	-13	PASS
Band4	1413	2	0.009~0.15MHz	0.03	-47.82	-43	PASS
Band4	1413	2	10000~20000MHz	19999.67	-41.98	-13	PASS
Band4	1413	3	1000~3000MHz	2036.53	-28.53	-13	PASS
Band4	1413	3	30~1000MHz	197.29	-55.73	-23	PASS
Band4	1413	3	0.15~30MHz	0.19	-37.97	-33	PASS
Band4	1413	3	3000~10000MHz	3466.9	-43.13	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.03	-47.46	-43	PASS
Band4	1413	3	10000~20000MHz	19978.67	-41.96	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.02	-47.62	-43	PASS
Band4	1413	4	0.15~30MHz	0.2	-37.73	-33	PASS
Band4	1413	4	30~1000MHz	181.29	-56.15	-23	PASS
Band4	1413	4	1000~3000MHz	2140.53	-28.54	-13	PASS
Band4	1413	4	3000~10000MHz	3466.67	-43.14	-13	PASS
Band4	1413	4	10000~20000MHz	19464	-41.99	-13	PASS

Band4	1513	1	10000~20000MHz	19910.67	-41.99	-13	PASS
Band4	1513	1	0.009~0.15MHz	0.02	-48.87	-43	PASS
Band4	1513	1	3000~10000MHz	3503.53	-45.01	-13	PASS
Band4	1513	1	0.15~30MHz	0.21	-37.09	-33	PASS
Band4	1513	1	1000~3000MHz	2153.13	-28.48	-13	PASS
Band4	1513	1	30~1000MHz	179.9	-55.75	-23	PASS
Band4	1513	2	0.15~30MHz	0.19	-35.97	-33	PASS
Band4	1513	2	30~1000MHz	196.94	-55.75	-23	PASS
Band4	1513	2	1000~3000MHz	2139.13	-28.43	-13	PASS
Band4	1513	2	10000~20000MHz	19429.33	-41.99	-13	PASS
Band4	1513	2	3000~10000MHz	3503.77	-45.12	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.02	-48.43	-43	PASS
Band4	1513	3	30~1000MHz	201.59	-56.07	-23	PASS
Band4	1513	3	10000~20000MHz	19462	-42.01	-13	PASS
Band4	1513	3	1000~3000MHz	2036.2	-28.46	-13	PASS
Band4	1513	3	0.15~30MHz	0.27	-37.91	-33	PASS
Band4	1513	3	0.009~0.15MHz	0.03	-48.66	-43	PASS
Band4	1513	3	3000~10000MHz	3503.77	-45	-13	PASS
Band4	1513	4	10000~20000MHz	19866.33	-41.94	-13	PASS
Band4	1513	4	0.009~0.15MHz	0.02	-48.2	-43	PASS
Band4	1513	4	0.15~30MHz	0.17	-35.6	-33	PASS
Band4	1513	4	30~1000MHz	197.58	-54.93	-23	PASS
Band4	1513	4	1000~3000MHz	2139.4	-28.44	-13	PASS
Band4	1513	4	3000~10000MHz	3504	-45.22	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.15~30MHz	0.18	-37.82	-33	PASS
Band4	1312	1	30~1000MHz	186.01	-55.82	-23	PASS
Band4	1312	1	1000~3000MHz	2137.87	-28.55	-13	PASS
Band4	1312	1	3000~10000MHz	3194.13	-45.72	-13	PASS
Band4	1312	1	10000~20000MHz	19376.33	-42.06	-13	PASS
Band4	1312	1	0.009~0.15MHz	0.03	-48.44	-43	PASS
Band4	1312	2	1000~3000MHz	2046.4	-28.55	-13	PASS
Band4	1312	2	3000~10000MHz	3103.6	-45.71	-13	PASS
Band4	1312	2	30~1000MHz	184.2	-55.3	-23	PASS

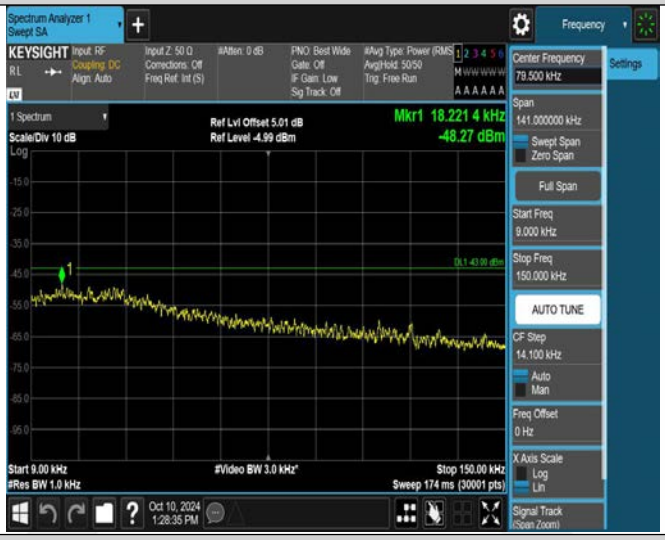
Band4	1312	2	0.15~30MHz	0.17	-38.37	-33	PASS
Band4	1312	2	0.009~0.15MHz	0.03	-48.24	-43	PASS
Band4	1312	2	10000~20000MHz	19993.67	-42.03	-13	PASS
Band4	1312	3	10000~20000MHz	19434.67	-42.07	-13	PASS
Band4	1312	3	0.15~30MHz	0.28	-37.46	-33	PASS
Band4	1312	3	30~1000MHz	173.33	-56.16	-23	PASS
Band4	1312	3	0.009~0.15MHz	0.02	-48.05	-43	PASS
Band4	1312	3	3000~10000MHz	3081.9	-45.62	-13	PASS
Band4	1312	3	1000~3000MHz	2136.87	-28.44	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.03	-48.43	-43	PASS
Band4	1312	4	0.15~30MHz	0.17	-37.99	-33	PASS
Band4	1312	4	30~1000MHz	195.45	-55.75	-23	PASS
Band4	1312	4	1000~3000MHz	2051.4	-28.52	-13	PASS
Band4	1312	4	3000~10000MHz	3110.83	-45.37	-13	PASS
Band4	1312	4	10000~20000MHz	19906.67	-41.97	-13	PASS
Band4	1312	5	1000~3000MHz	2049.27	-28.44	-13	PASS
Band4	1312	5	10000~20000MHz	19419.67	-41.87	-13	PASS
Band4	1312	5	3000~10000MHz	3069.07	-45.54	-13	PASS
Band4	1312	5	0.009~0.15MHz	0.01	-48.94	-43	PASS
Band4	1312	5	30~1000MHz	196.52	-56.01	-23	PASS
Band4	1312	5	0.15~30MHz	0.26	-36.47	-33	PASS
Band4	1413	1	0.15~30MHz	0.27	-38.24	-33	PASS
Band4	1413	1	0.009~0.15MHz	0.02	-48.58	-43	PASS
Band4	1413	1	30~1000MHz	196.55	-56.34	-23	PASS
Band4	1413	1	1000~3000MHz	2105.07	-28.54	-13	PASS
Band4	1413	1	3000~10000MHz	3466.2	-44.13	-13	PASS
Band4	1413	1	10000~20000MHz	19349	-41.92	-13	PASS
Band4	1413	2	1000~3000MHz	2133.53	-28.48	-13	PASS
Band4	1413	2	3000~10000MHz	3466.2	-44.52	-13	PASS
Band4	1413	2	30~1000MHz	191.08	-55.67	-23	PASS
Band4	1413	2	0.15~30MHz	0.27	-37.5	-33	PASS
Band4	1413	2	0.009~0.15MHz	0.02	-48.87	-43	PASS
Band4	1413	2	10000~20000MHz	19419.33	-41.98	-13	PASS
Band4	1413	3	30~1000MHz	188.66	-55.8	-23	PASS
Band4	1413	3	0.009~0.15MHz	0.03	-47.99	-43	PASS
Band4	1413	3	1000~3000MHz	2035.67	-28.49	-13	PASS
Band4	1413	3	3000~10000MHz	3465.27	-43.95	-13	PASS

Band4	1413	3	10000~20000MHz	19419.67	-41.91	-13	PASS
Band4	1413	3	0.15~30MHz	0.26	-36.67	-33	PASS
Band4	1413	4	0.15~30MHz	0.16	-36.33	-33	PASS
Band4	1413	4	10000~20000MHz	19424	-41.84	-13	PASS
Band4	1413	4	3000~10000MHz	3466.2	-44.78	-13	PASS
Band4	1413	4	30~1000MHz	194.38	-55.43	-23	PASS
Band4	1413	4	0.009~0.15MHz	0.04	-48.76	-43	PASS
Band4	1413	4	1000~3000MHz	2036.8	-28.48	-13	PASS
Band4	1413	5	10000~20000MHz	19412.33	-41.94	-13	PASS
Band4	1413	5	0.15~30MHz	0.18	-35.52	-33	PASS
Band4	1413	5	30~1000MHz	196.61	-54.71	-23	PASS
Band4	1413	5	1000~3000MHz	2124.07	-28.51	-13	PASS
Band4	1413	5	3000~10000MHz	3466.43	-43.27	-13	PASS
Band4	1413	5	0.009~0.15MHz	0.02	-48.81	-43	PASS
Band4	1513	1	0.009~0.15MHz	0.03	-48.35	-43	PASS
Band4	1513	1	0.15~30MHz	0.22	-37.51	-33	PASS
Band4	1513	1	30~1000MHz	207.12	-56.73	-23	PASS
Band4	1513	1	1000~3000MHz	2125.87	-28.46	-13	PASS
Band4	1513	1	3000~10000MHz	3106.4	-45.46	-13	PASS
Band4	1513	1	10000~20000MHz	19948.33	-41.93	-13	PASS
Band4	1513	2	1000~3000MHz	2148.87	-28.42	-13	PASS
Band4	1513	2	10000~20000MHz	19909.67	-41.88	-13	PASS
Band4	1513	2	3000~10000MHz	3223.07	-45.61	-13	PASS
Band4	1513	2	30~1000MHz	200.27	-54.67	-23	PASS
Band4	1513	2	0.15~30MHz	0.17	-37.92	-33	PASS
Band4	1513	2	0.009~0.15MHz	0.02	-49.16	-43	PASS
Band4	1513	3	3000~10000MHz	3504.47	-45.49	-13	PASS
Band4	1513	3	0.15~30MHz	0.29	-37.69	-33	PASS
Band4	1513	3	10000~20000MHz	19424	-42.05	-13	PASS
Band4	1513	3	30~1000MHz	208.61	-56.18	-23	PASS
Band4	1513	3	1000~3000MHz	2127.6	-28.56	-13	PASS
Band4	1513	3	0.009~0.15MHz	0.02	-47.34	-43	PASS
Band4	1513	4	0.009~0.15MHz	0.02	-48.6	-43	PASS
Band4	1513	4	10000~20000MHz	19400	-41.94	-13	PASS
Band4	1513	4	3000~10000MHz	3111.07	-45.53	-13	PASS
Band4	1513	4	1000~3000MHz	2035.93	-28.34	-13	PASS
Band4	1513	4	0.15~30MHz	0.23	-37.4	-33	PASS

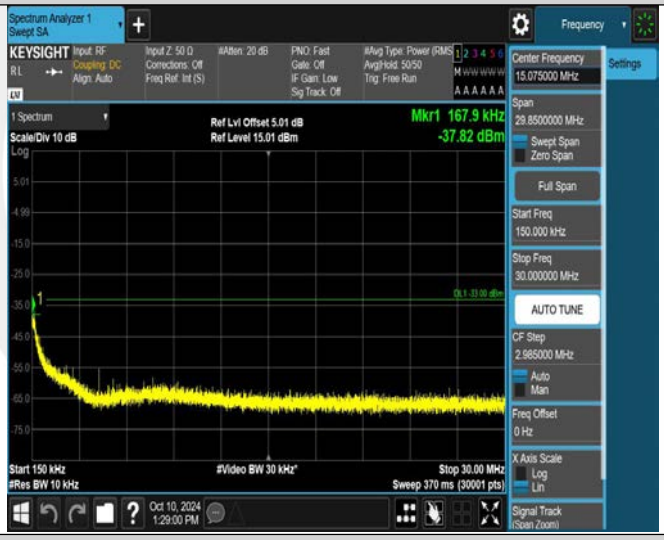
Band4	1513	4	30~1000MHz	178.64	-55.73	-23	PASS
Band4	1513	5	10000~20000MHz	19420	-41.72	-13	PASS
Band4	1513	5	0.009~0.15MHz	0.03	-49.74	-43	PASS
Band4	1513	5	0.15~30MHz	0.24	-37.12	-33	PASS
Band4	1513	5	30~1000MHz	189.86	-56.74	-23	PASS
Band4	1513	5	1000~3000MHz	2040.2	-28.53	-13	PASS
Band4	1513	5	3000~10000MHz	3503.77	-44.96	-13	PASS

Test Graphs

Band4-1312-0.009~0.15MHz



Band4-1312-0.15~30MHz



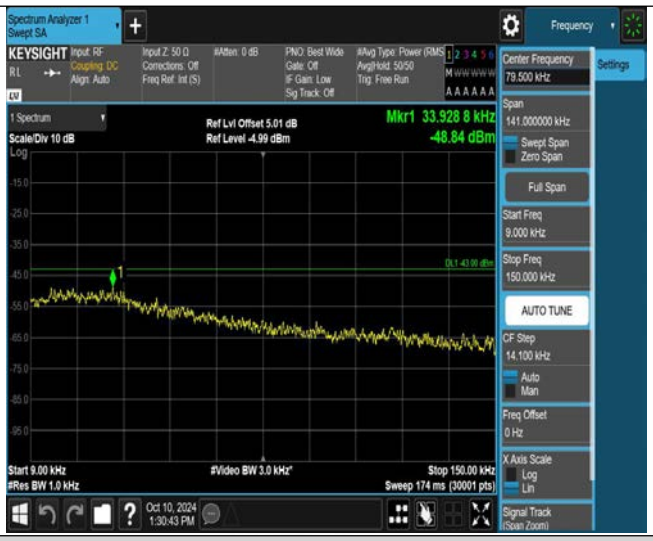
Band4-1312-30~1000MHz

Band4-1312-1000~3000MHz

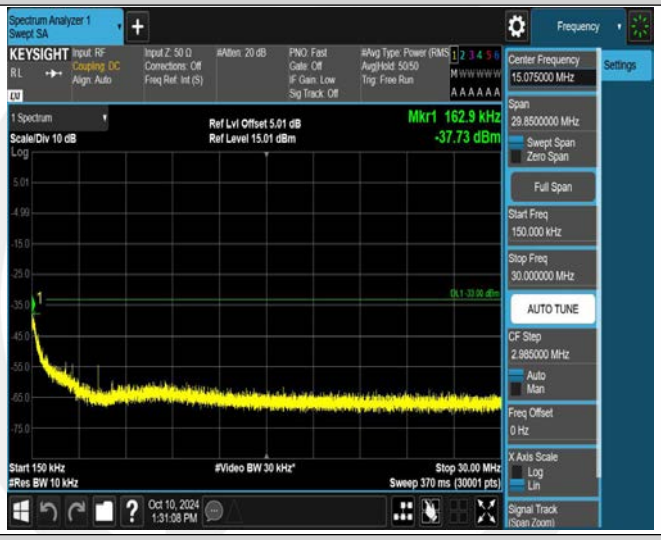
Band4-1312-3000~10000MHz

Band4-1312-10000~20000MHz

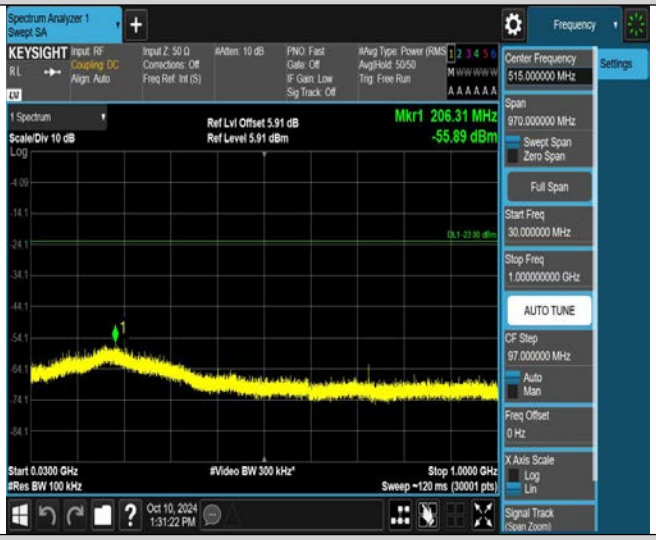
Band4-1413-0.009~0.15MHz



Band4-1413-0.15~30MHz



Band4-1413-30~1000MHz



Band4-1413-1000~3000MHz

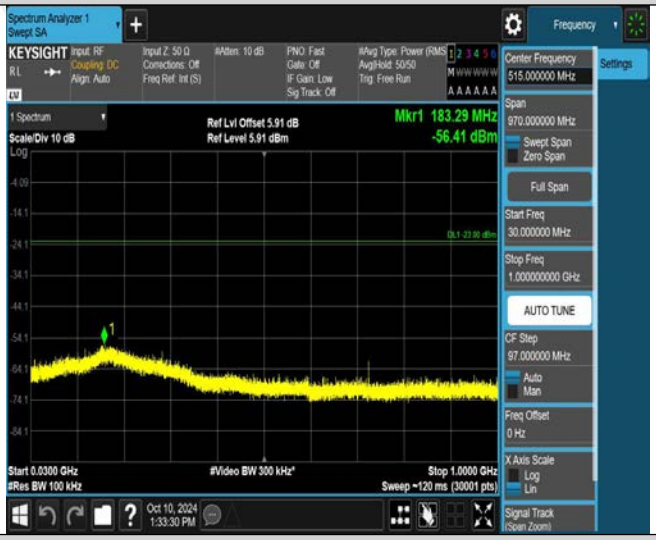
Band4-1413-3000~10000MHz

Band4-1413-10000~20000MHz

Band4-1513-0.009~0.15MHz

Band4-1513-0.15~30MHz

Band4-1513-30~1000MHz

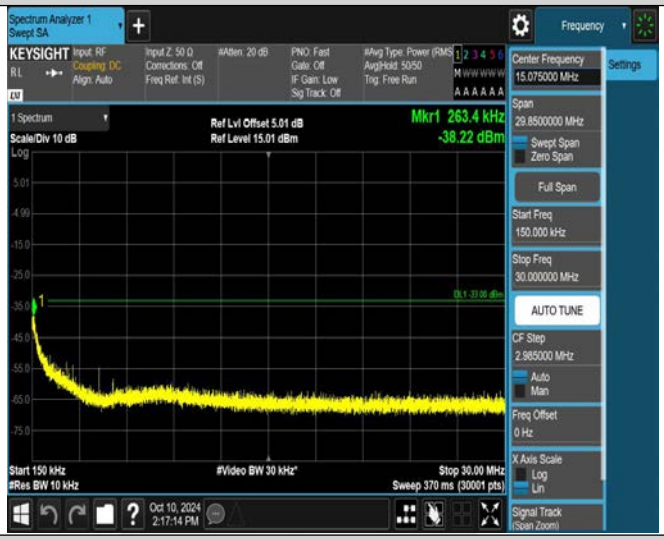


Band4-1513-1000~3000MHz

Band4-1513-3000~10000MHz

Band4-1513-10000~20000MHz

Band4-1312-1-0.15~30MHz



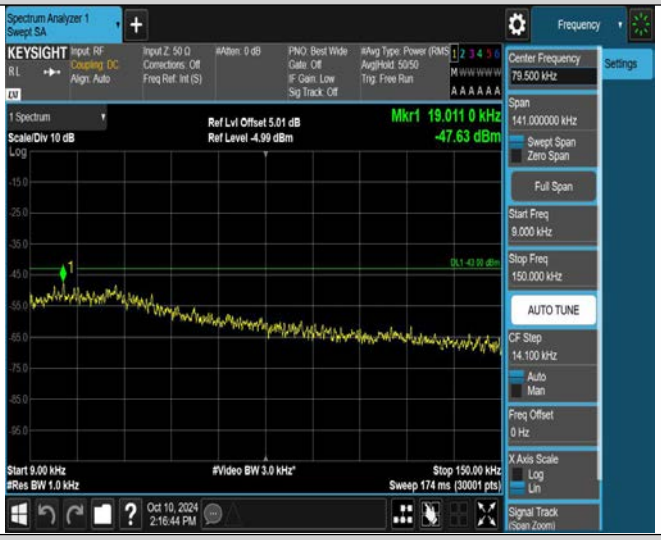
Band4-1312-1-30~1000MHz

Band4-1312-1-1000~3000MHz

Band4-1312-1-3000~10000MHz

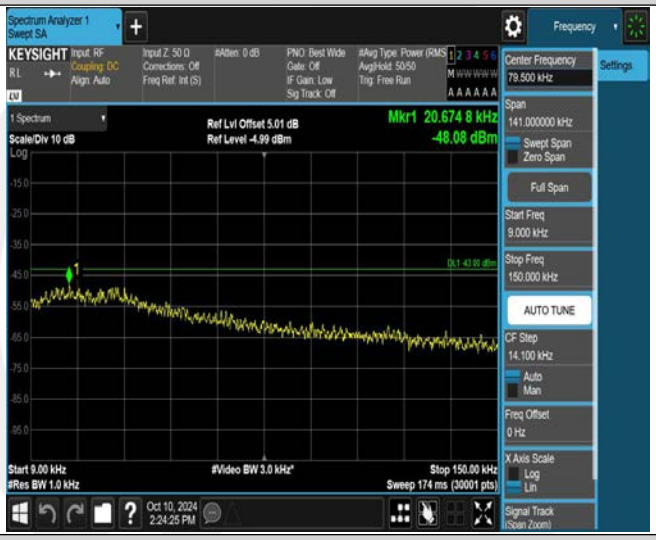
Band4-1312-1-10000~20000MHz

Band4-1312-1-0.009~0.15MHz



Band4-1312-2-1000~3000MHz

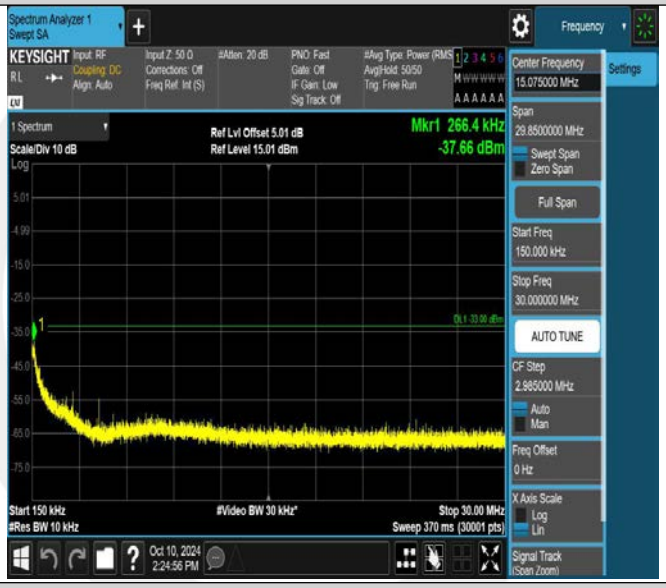
Band4-1312-2-0.009~0.15MHz



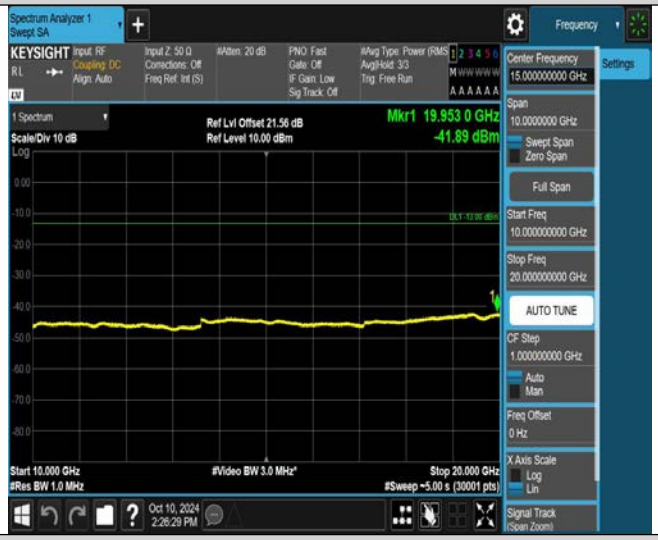
Band4-1312-2-3000~10000MHz

Band4-1312-2-30~1000MHz

Band4-1312-2-0.15~30MHz

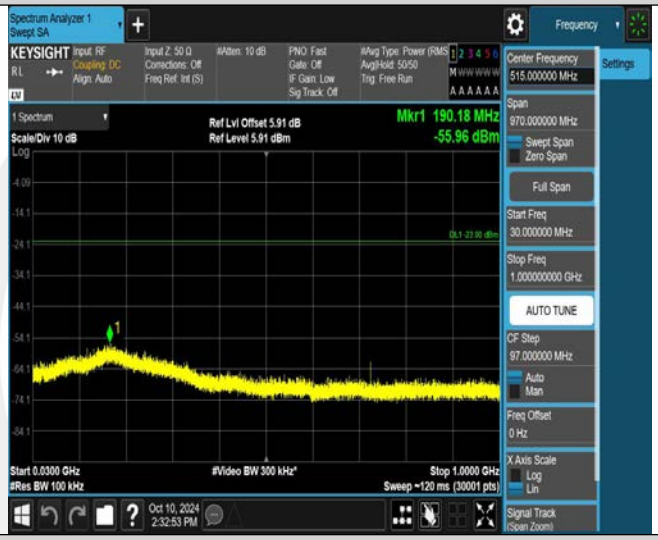


Band4-1312-2-10000~20000MHz



Band4-1312-3-0.15~30MHz

Band4-1312-3-30~1000MHz



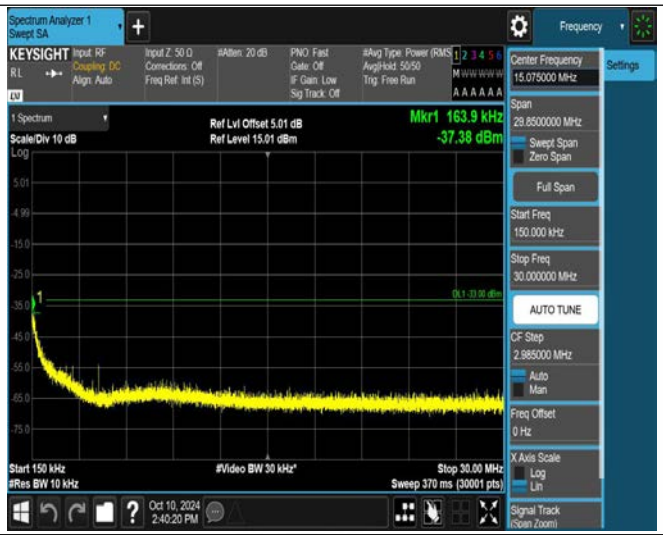
Band4-1312-3-10000~20000MHz

Band4-1312-3-0.009~0.15MHz

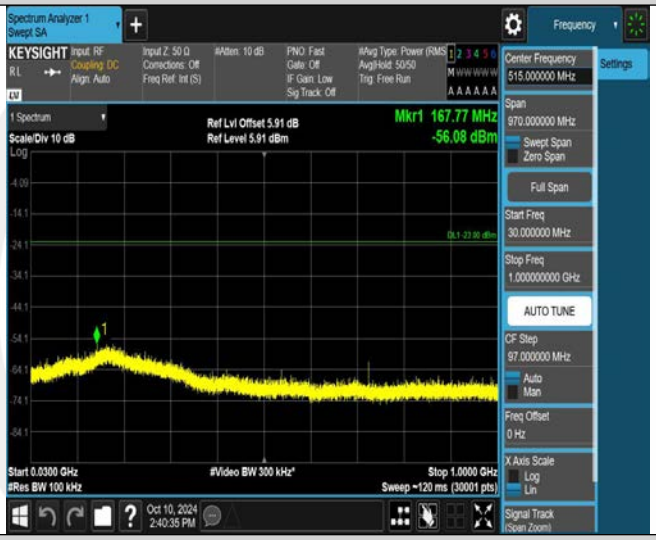
Band4-1312-3-3000~10000MHz

Band4-1312-3-1000~3000MHz

Band4-1312-4-0.15~30MHz



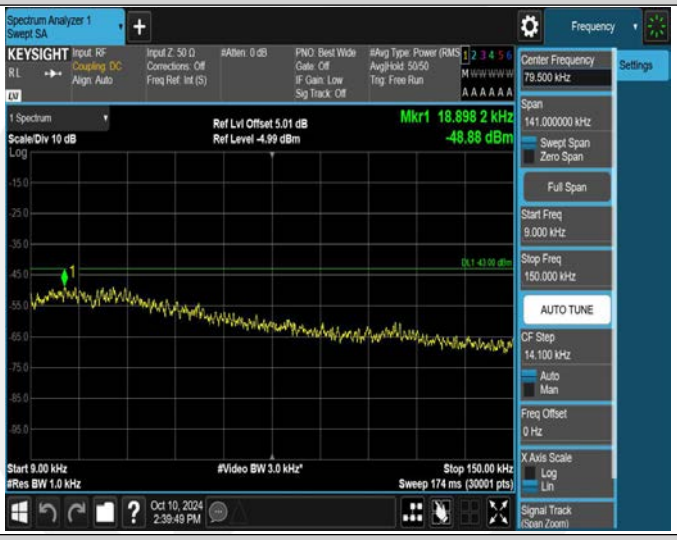
Band4-1312-4-30~1000MHz



Band4-1312-4-1000~3000MHz

Band4-1312-4-10000~20000MHz

Band4-1312-4-0.009~0.15MHz



Band4-1312-4-3000~10000MHz

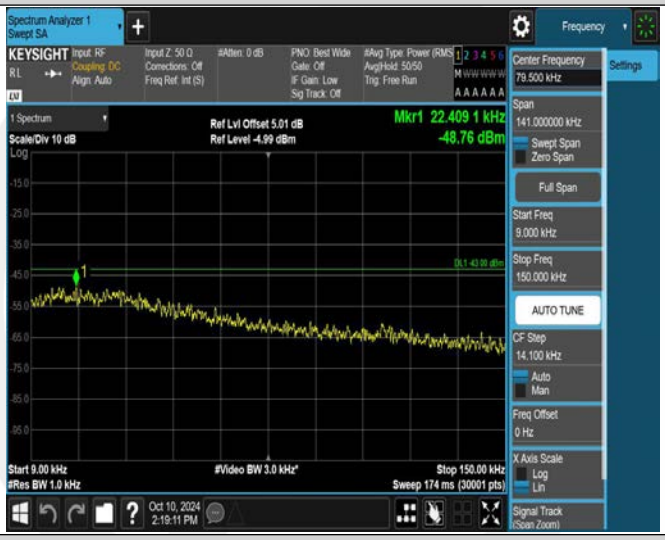
Band4-1413-1-10000~20000MHz

Band4-1413-1-3000~10000MHz

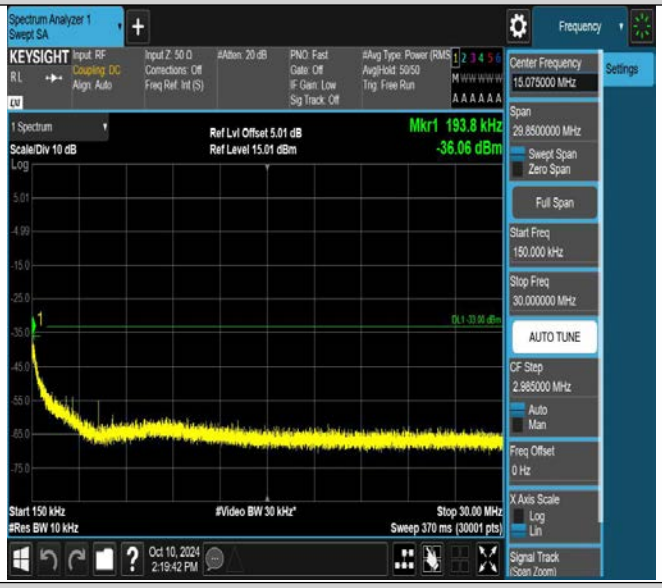
Band4-1413-1-1000~3000MHz

Band4-1413-1-30~1000MHz

Band4-1413-1-0.009~0.15MHz

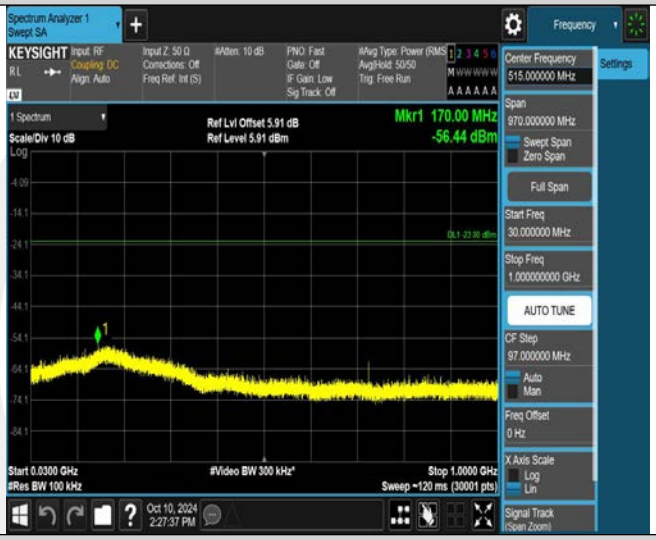


Band4-1413-1-0.15~30MHz



Band4-1413-2-0.15~30MHz

Band4-1413-2-30~1000MHz



Band4-1413-2-1000~3000MHz

Band4-1413-2-3000~10000MHz

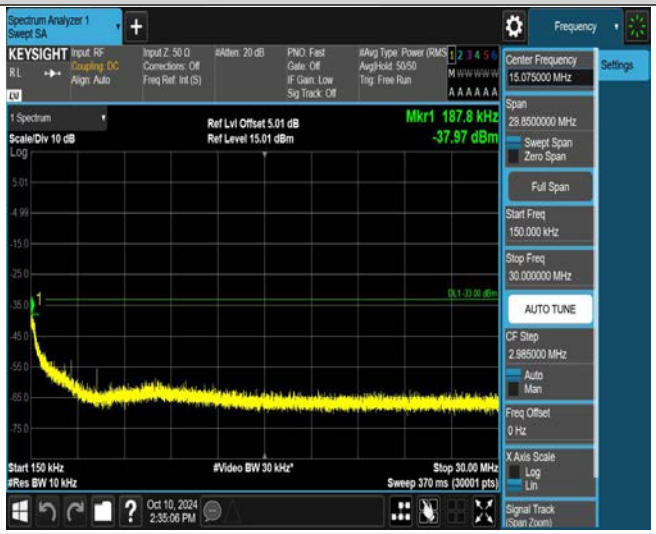
Band4-1413-2-0.009~0.15MHz

Band4-1413-2-10000~20000MHz

Band4-1413-3-1000~3000MHz

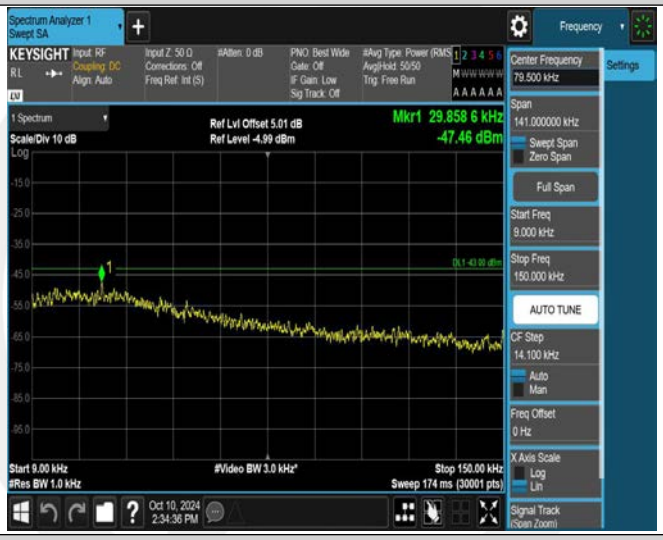
Band4-1413-3-30~1000MHz

Band4-1413-3-0.15~30MHz



Band4-1413-3-3000~10000MHz

Band4-1413-3-0.009~0.15MHz



Band4-1413-3-10000~20000MHz

Band4-1413-4-0.009~0.15MHz