A.7 Conducted Spurious Emission

Test Result

Left Part

TestMode	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	2402	Reference	0.96	0.96	---	PASS
		30~1000	0.96	-54.21	≤-19.04	PASS
		1000~26500	0.96	-47.33	≤-19.04	PASS
	2441	Reference	0.88	0.88	---	PASS
		30~1000	0.88	-55.53	≤-19.12	PASS
		1000~26500	0.88	-46.71	≤-19.12	PASS
	2480	Reference	1.46	1.46	---	PASS
		30~1000	1.46	-55.71	≤-18.54	PASS
		1000~26500	1.46	-47.4	≤-18.54	PASS
2DH5	2402	Reference	-1.06	-1.06	---	PASS
		30~1000	-1.06	-52.82	≤-21.06	PASS
		1000~26500	-1.06	-47.79	≤-21.06	PASS
	2441	Reference	0.41	0.41	---	PASS
		30~1000	0.41	-53.9	≤-19.59	PASS
		1000~26500	0.41	-47.12	≤-19.59	PASS
	2480	Reference	0.32	0.32	---	PASS
		30~1000	0.32	-53.52	≤-19.69	PASS
		1000~26500	0.32	-47.94	≤-19.69	PASS
3DH5	2402	Reference	-0.26	-0.26	---	PASS
		30~1000	-0.26	-54.51	≤-20.26	PASS
		1000~26500	-0.26	-43.46	≤-20.26	PASS
	2441	Reference	0.25	0.25	---	PASS
		30~1000	0.25	-54.82	≤-19.75	PASS
		1000~26500	0.25	-47.58	≤-19.75	PASS
	2480	Reference	1.53	1.53	---	PASS
		30~1000	1.53	-54.12	≤-18.47	PASS
		1000~26500	1.53	-47.33	≤-18.47	PASS

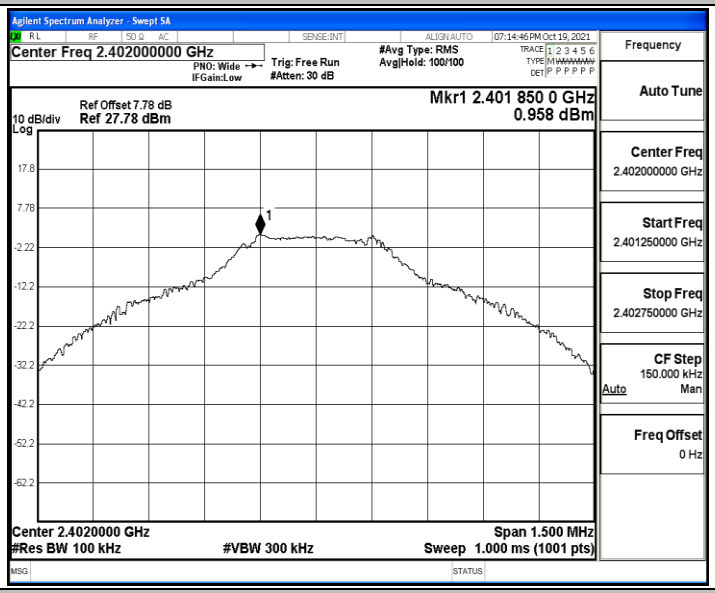
Right Part

TestMode	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	2402	Reference	1.10	1.10	---	PASS
		30~1000	1.10	-38.71	≤-18.9	PASS
		1000~26500	1.10	-47.17	≤-18.9	PASS
	2441	Reference	1.05	1.05	---	PASS
		30~1000	1.05	-60.54	≤-18.95	PASS
		1000~26500	1.05	-47.34	≤-18.95	PASS
	2480	Reference	1.30	1.30	---	PASS
		30~1000	1.30	-61.83	≤-18.71	PASS
		1000~26500	1.30	-47.2	≤-18.71	PASS
2DH5	2402	Reference	-6.86	-6.86	---	PASS
		30~1000	-6.86	-62.22	≤-26.86	PASS
		1000~26500	-6.86	-41.42	≤-26.86	PASS
	2441	Reference	1.12	1.12	---	PASS
		30~1000	1.12	-61.78	≤-18.88	PASS
		1000~26500	1.12	-46.71	≤-18.88	PASS
	2480	Reference	1.08	1.08	---	PASS
		30~1000	1.08	-61.61	≤-18.92	PASS
		1000~26500	1.08	-47.75	≤-18.92	PASS
3DH5	2402	Reference	0.66	0.66	---	PASS
		30~1000	0.66	-61.3	≤-19.34	PASS
		1000~26500	0.66	-46.94	≤-19.34	PASS
	2441	Reference	1.29	1.29	---	PASS
		30~1000	1.29	-61.25	≤-18.71	PASS
		1000~26500	1.29	-46.9	≤-18.71	PASS
	2480	Reference	1.58	1.58	---	PASS
		30~1000	1.58	-62	≤-18.42	PASS
		1000~26500	1.58	-47.58	≤-18.42	PASS

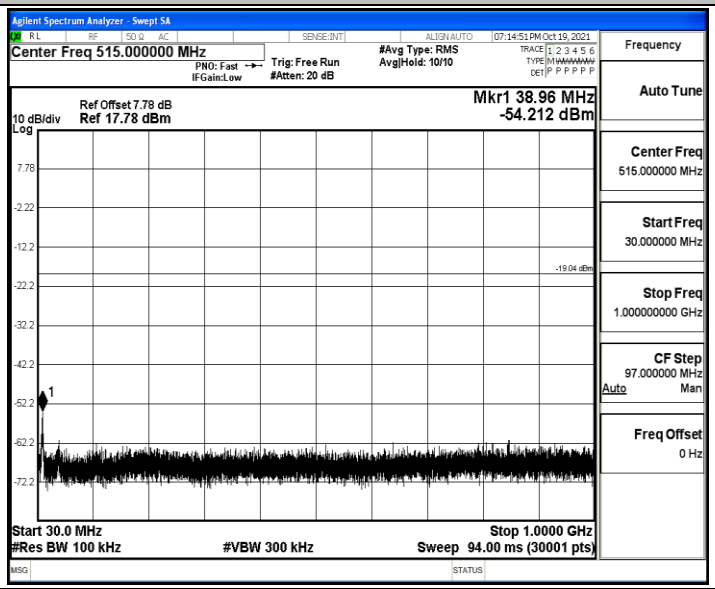
Test Graphs

Left Part

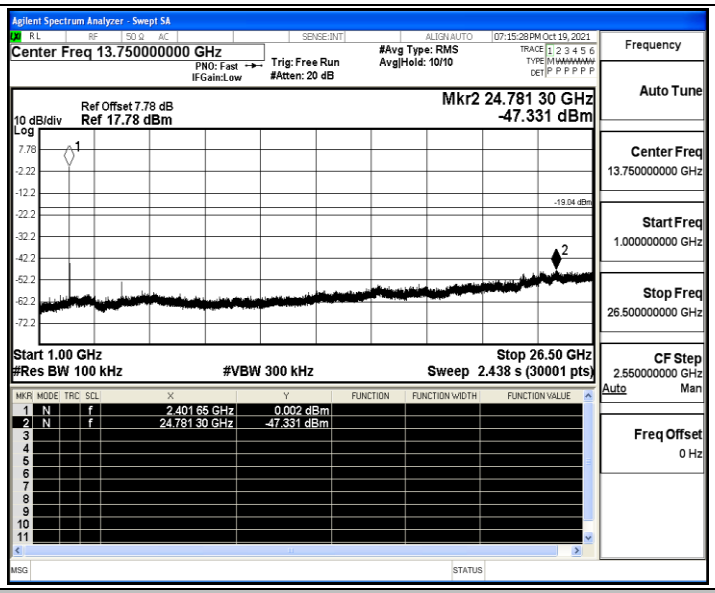
DH5_2402_0~Reference



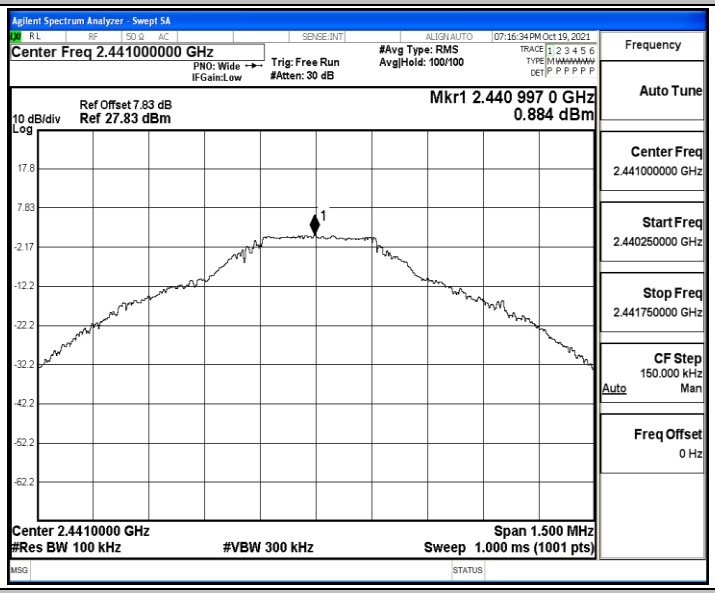
DH5_2402_30~1000



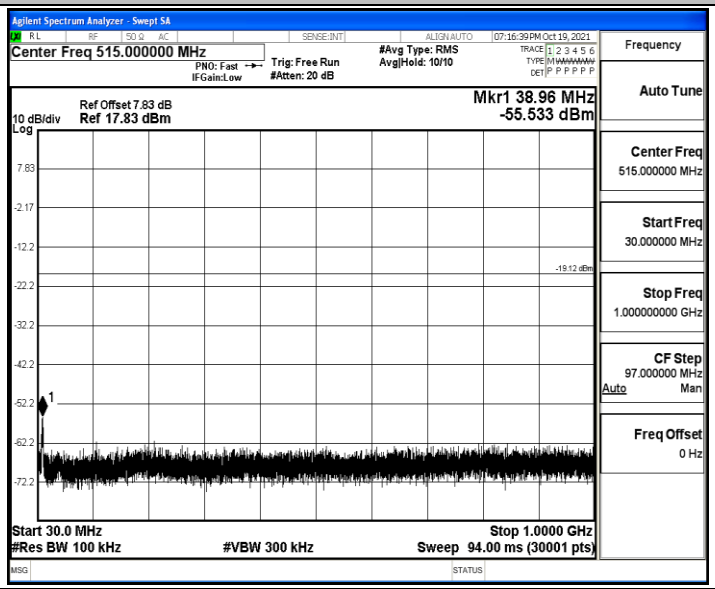
DH5_2402_1000~26500

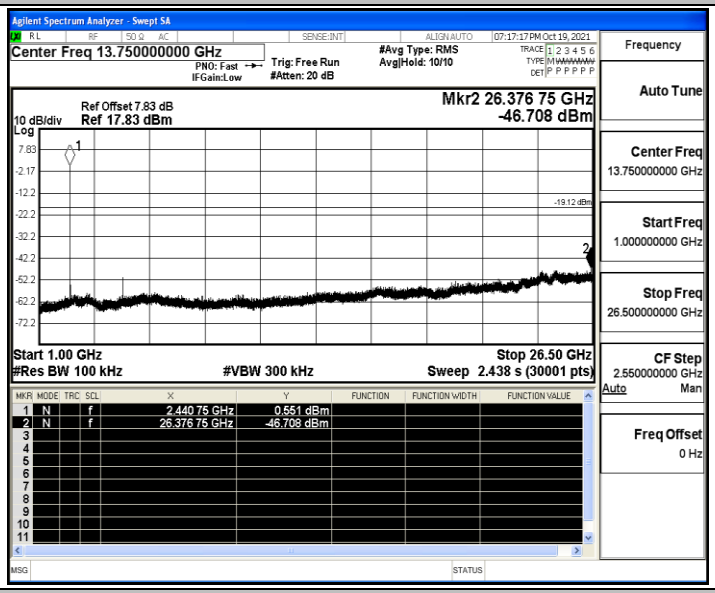
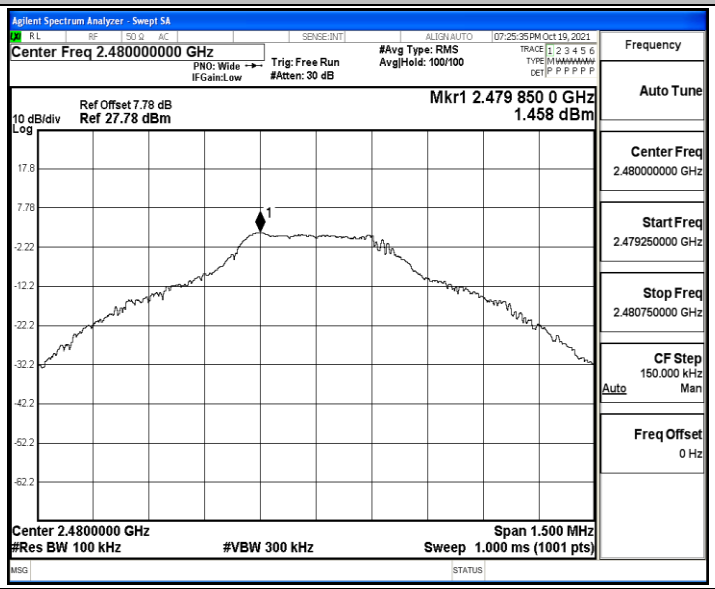


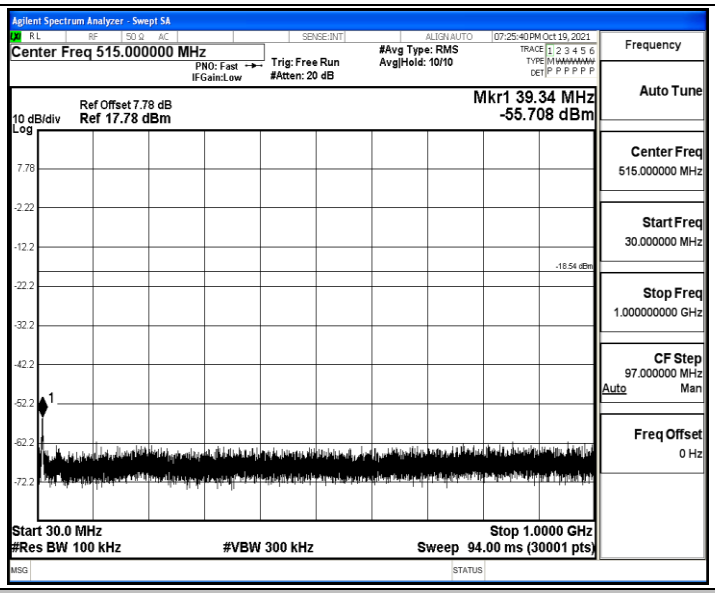
DH5_2441_0~Reference



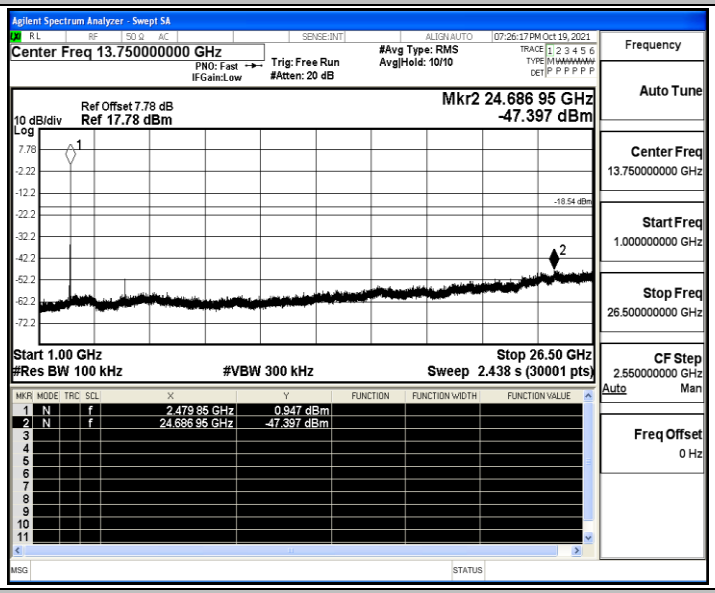
DH5_2441_30~1000



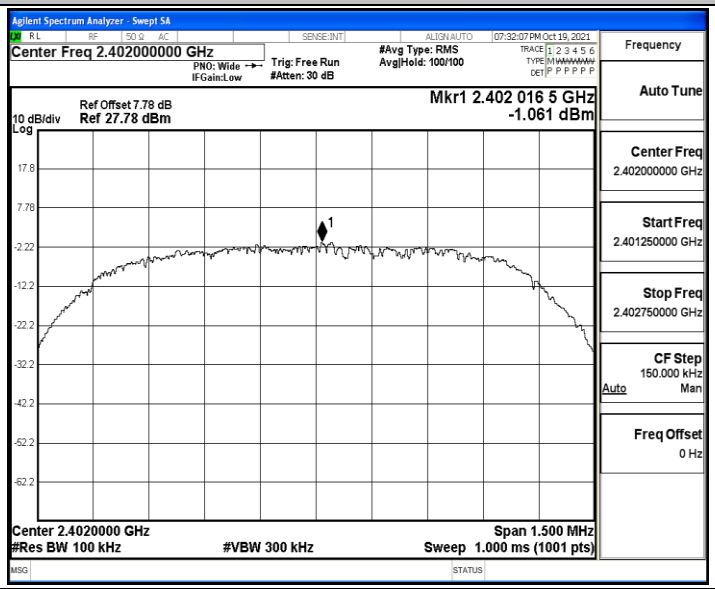
DH5_2441_1000~26500

DH5_2480_0~Reference

DH5_2480_30~1000

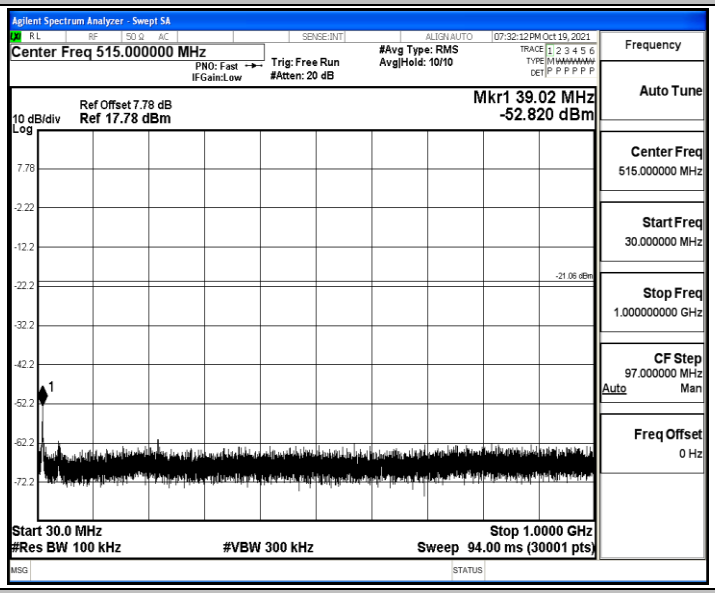
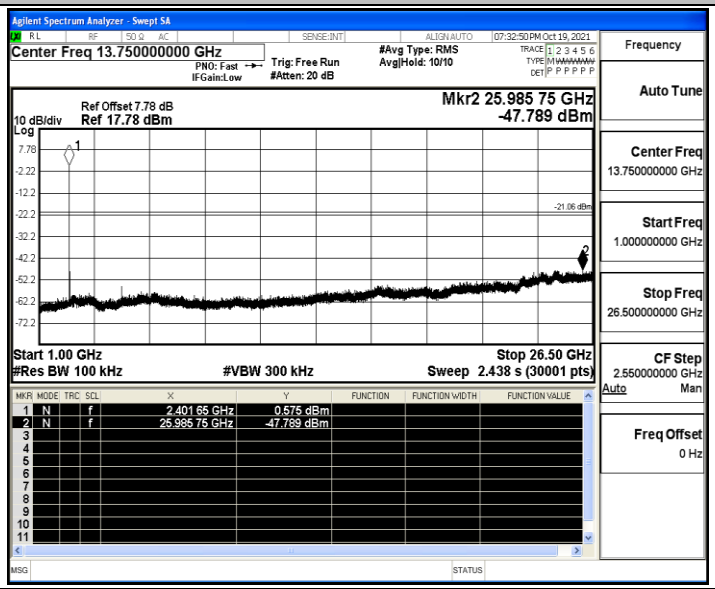


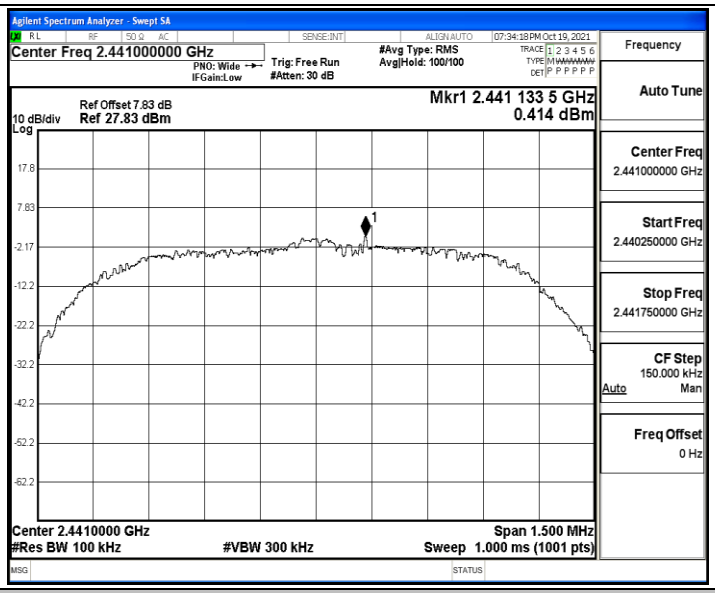
DH5_2480_1000~26500



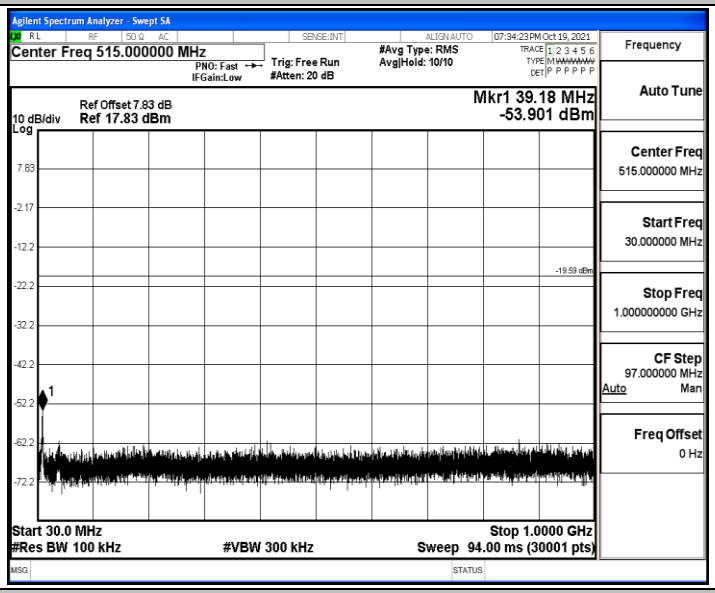
2DH5_2402_0~Reference



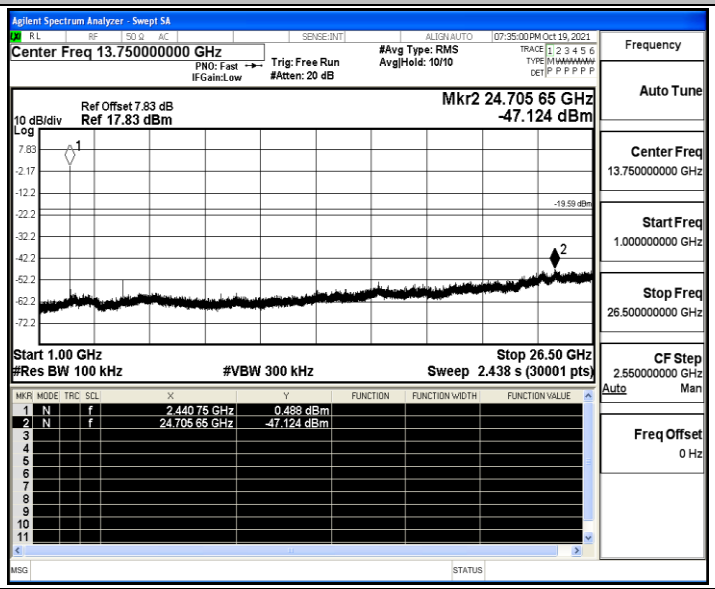
2DH5_2402_30~1000

2DH5_2402_1000~26500

2DH5_2441_0~Reference



2DH5_2441_30~1000



2DH5_2441_1000~26500



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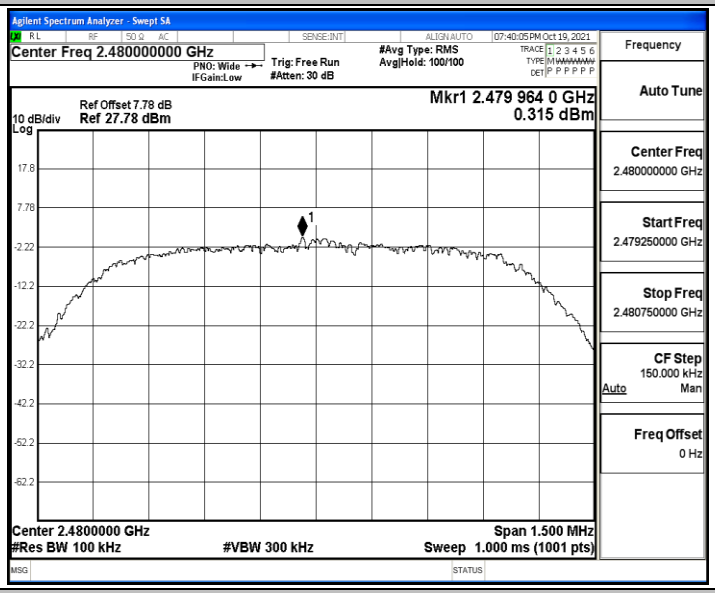
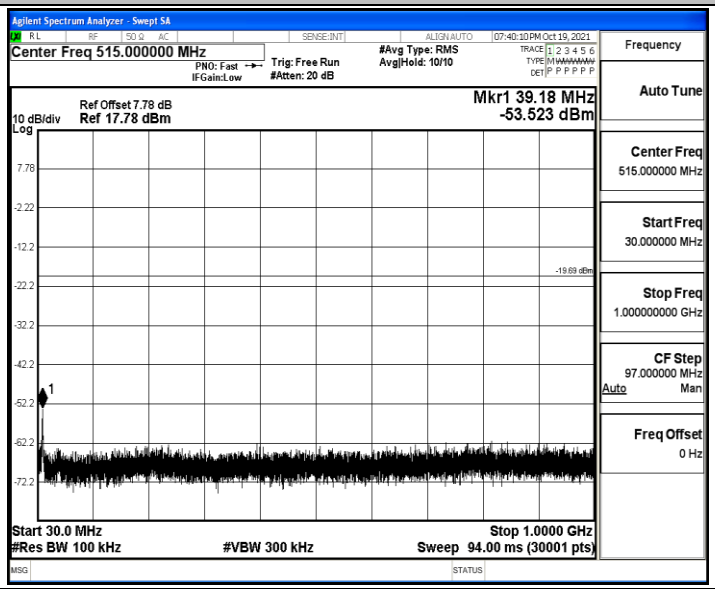
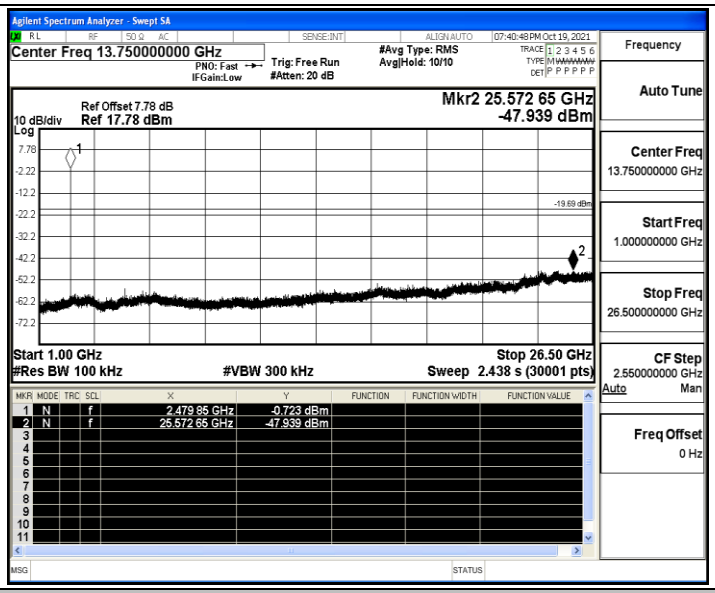
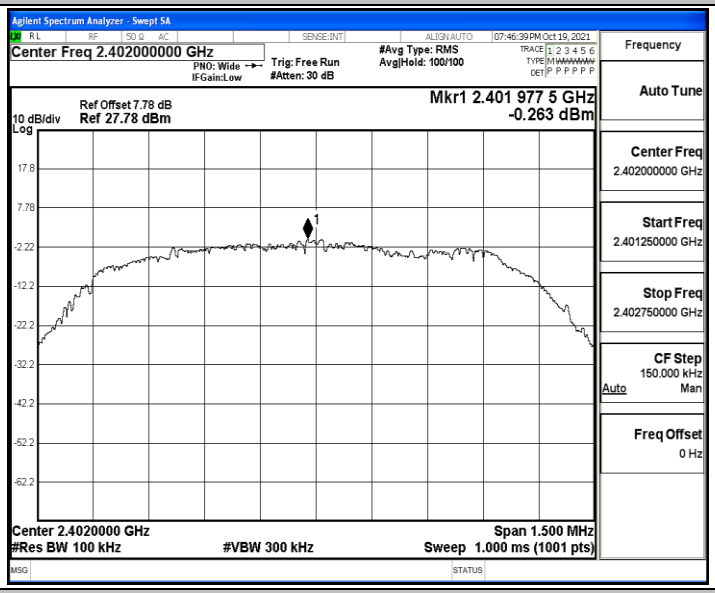
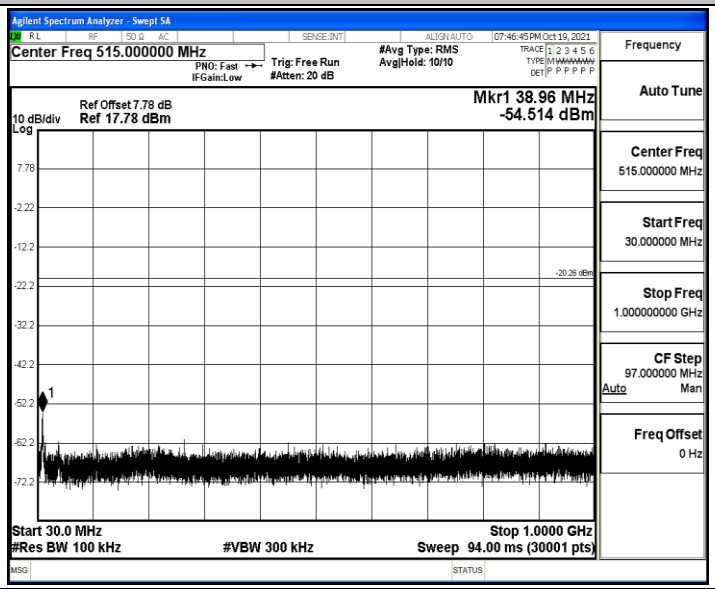

2DH5_2480_30~1000

2DH5_2480_1000~26500

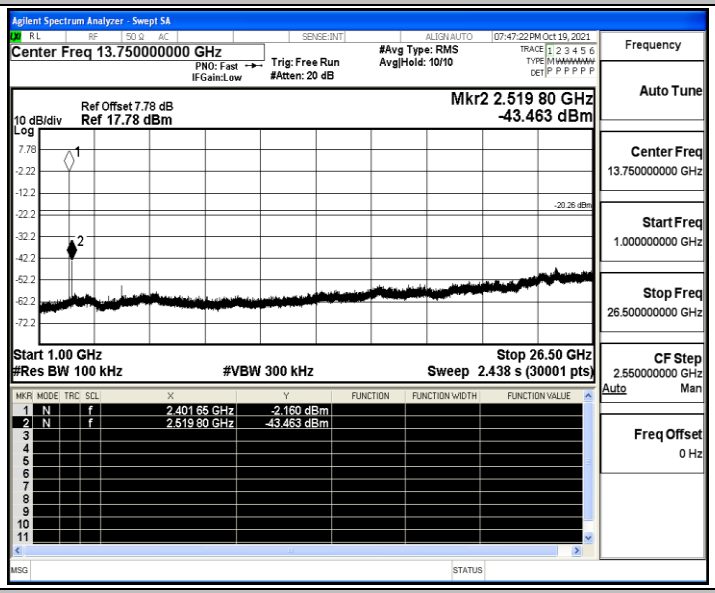
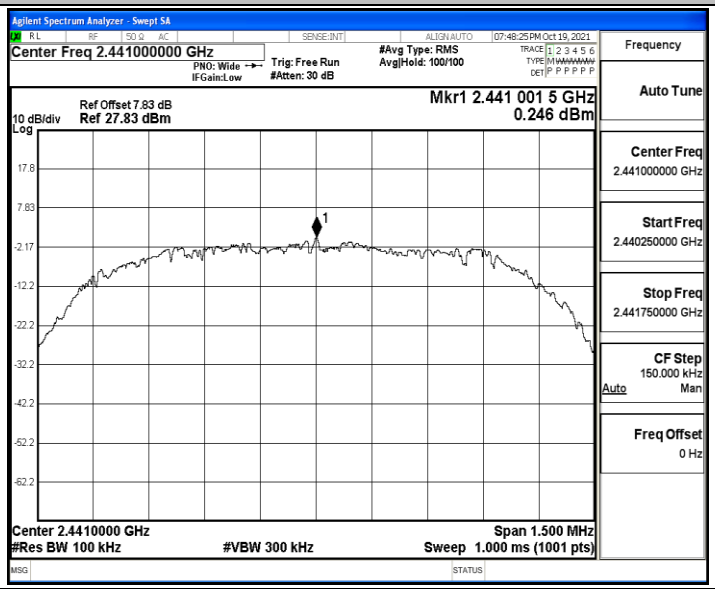


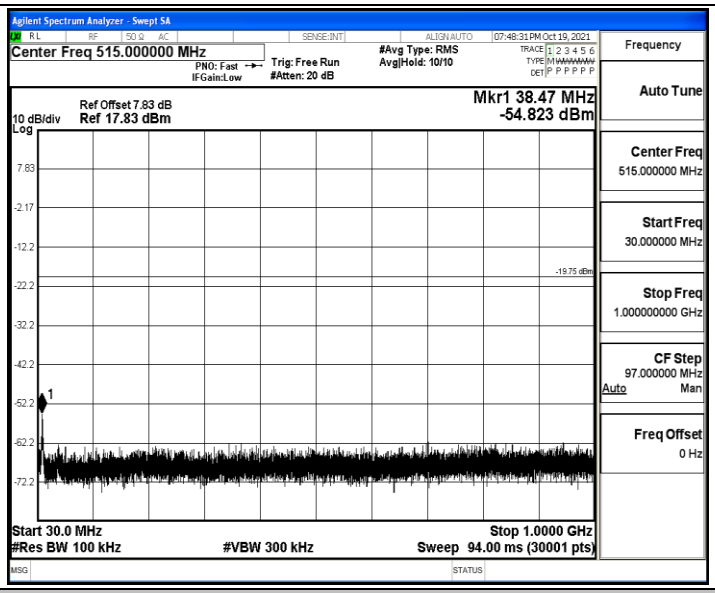
3DH5_2402_0~Reference



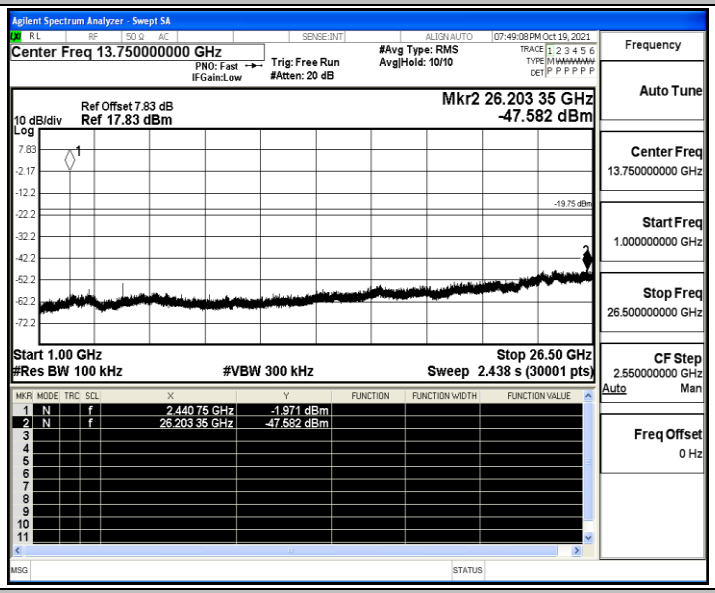
3DH5_2402_30~1000



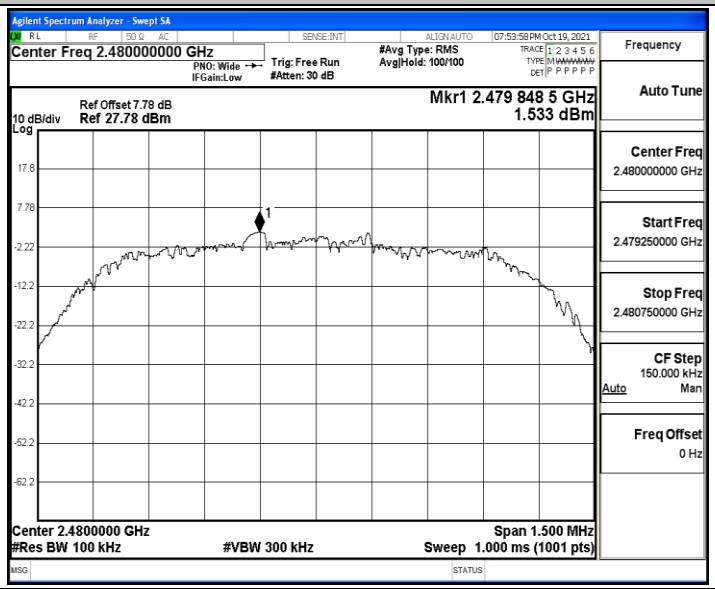
3DH5_2402_1000~26500

3DH5_2441_0~Reference

3DH5_2441_30~1000



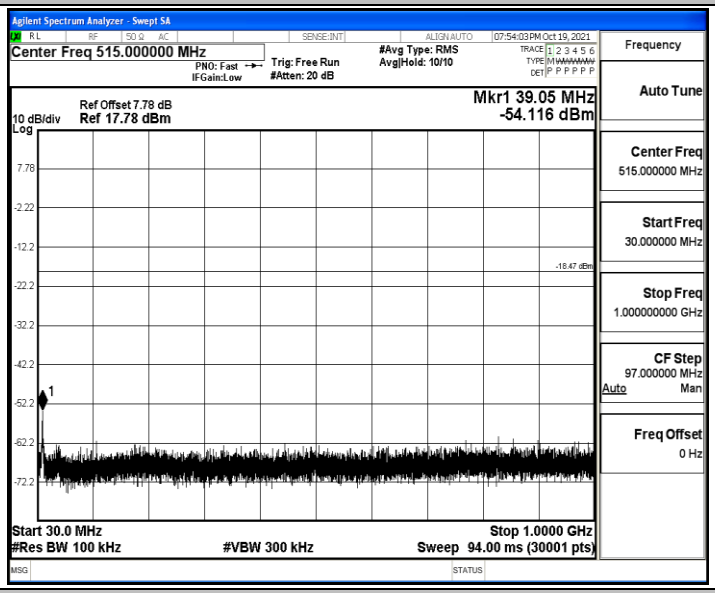
3DH5_2441_1000~26500



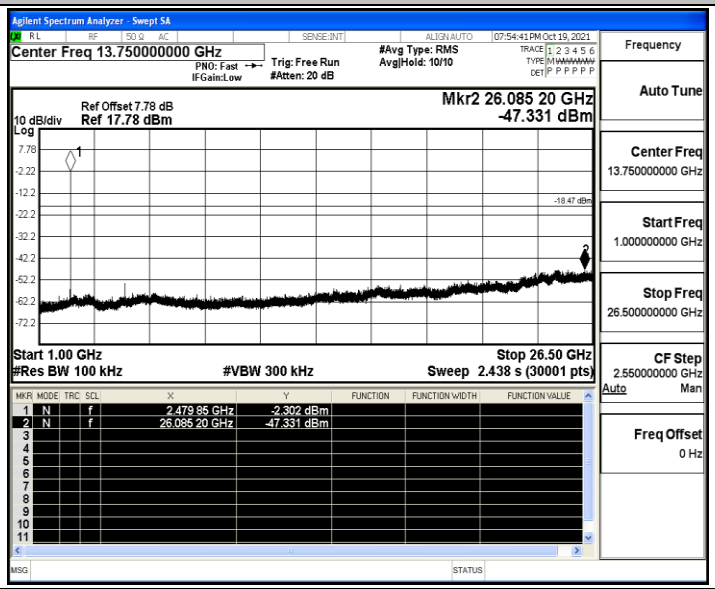
3DH5_2480_0~Reference



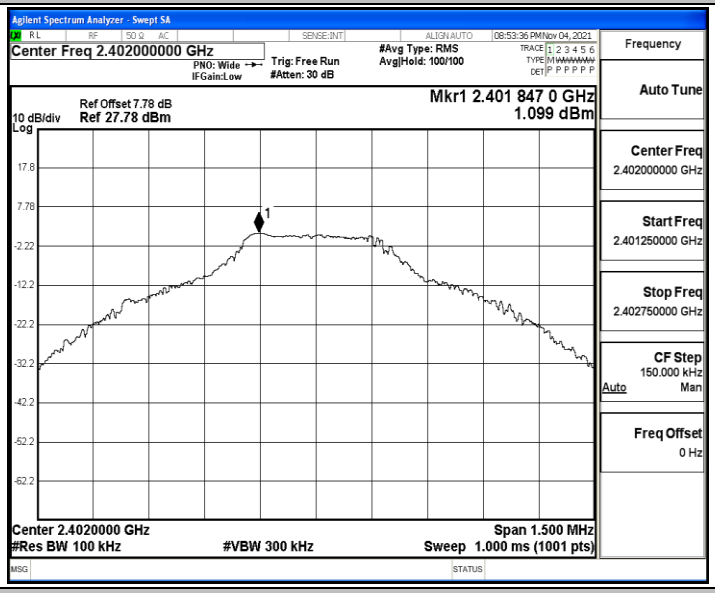
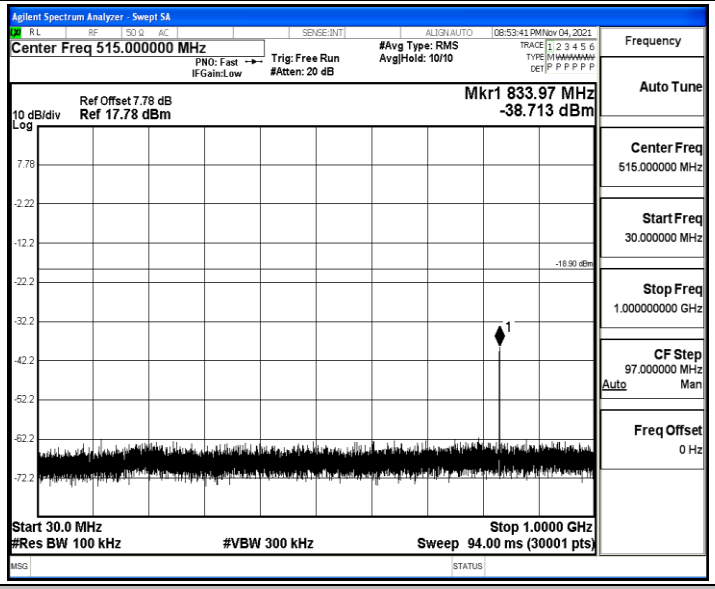
3DH5_2480_30~1000

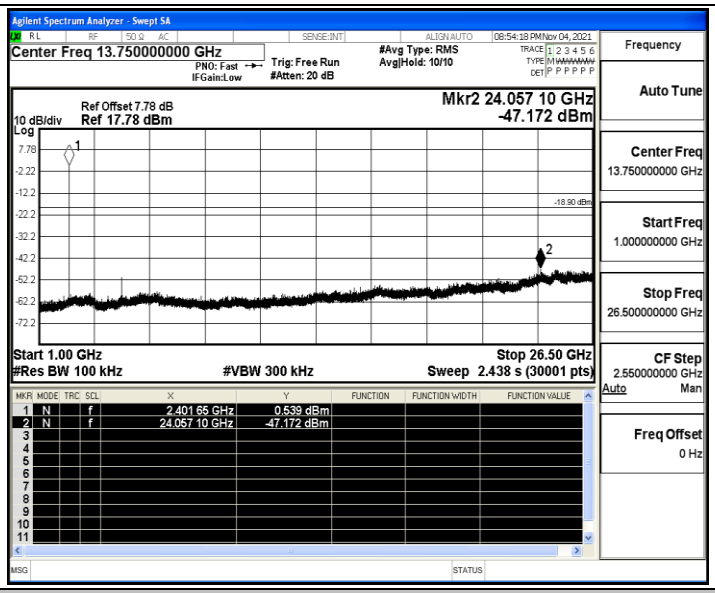


3DH5_2480_1000~26500

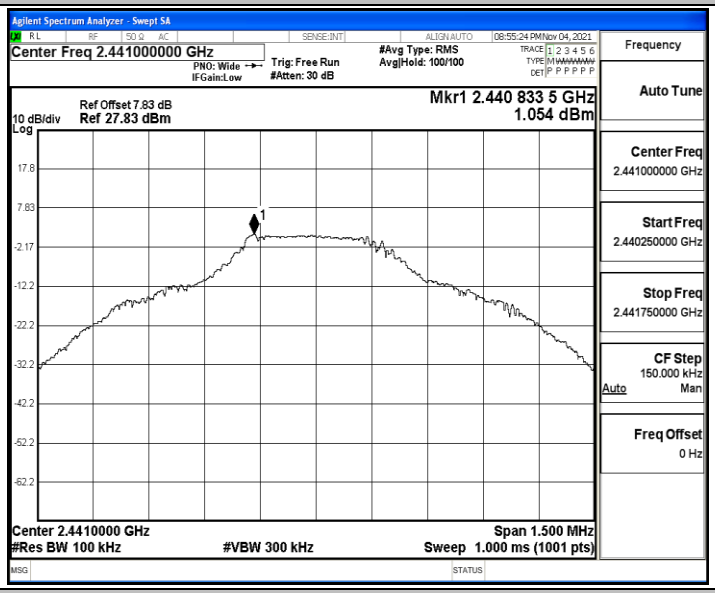


Right Part

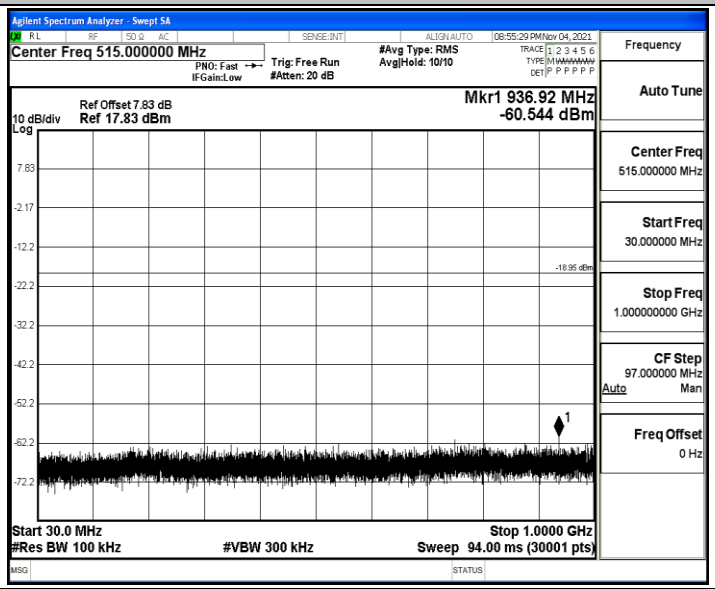
DH5_2402_0~Reference

DH5_2402_30~1000

DH5_2402_1000~26500



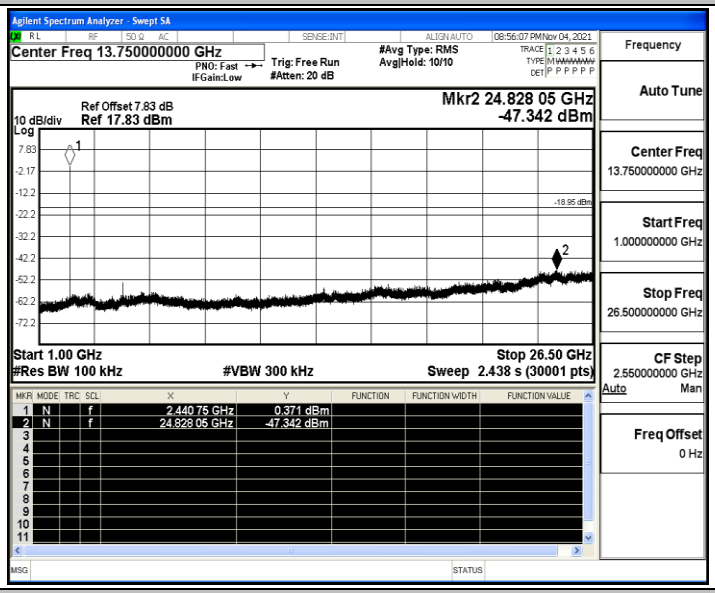
DH5_2441_0~Reference



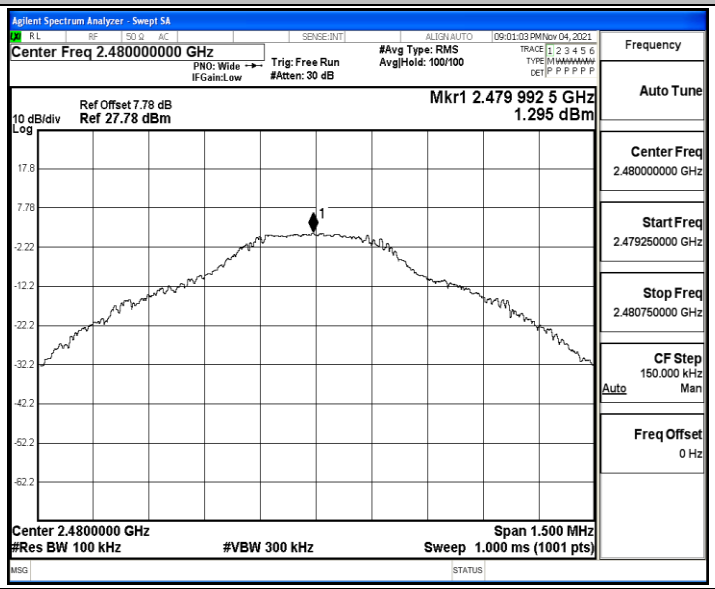
DH5_2441_30~1000



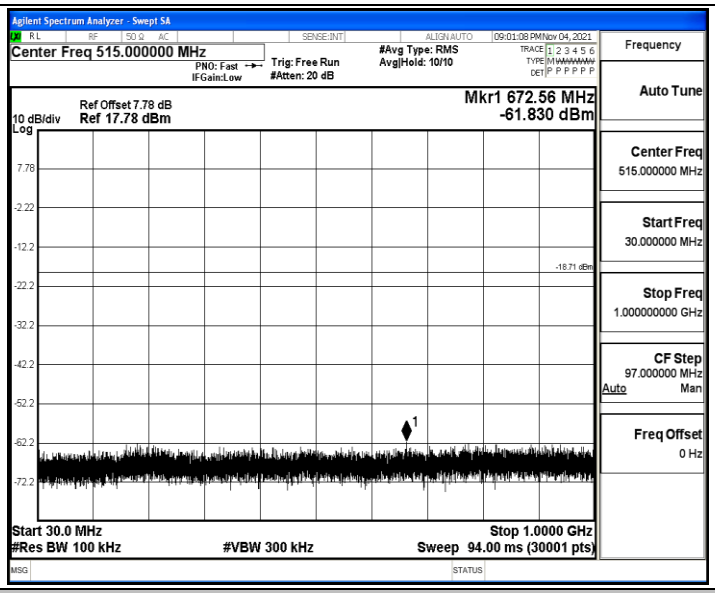
DH5_2441_1000~26500



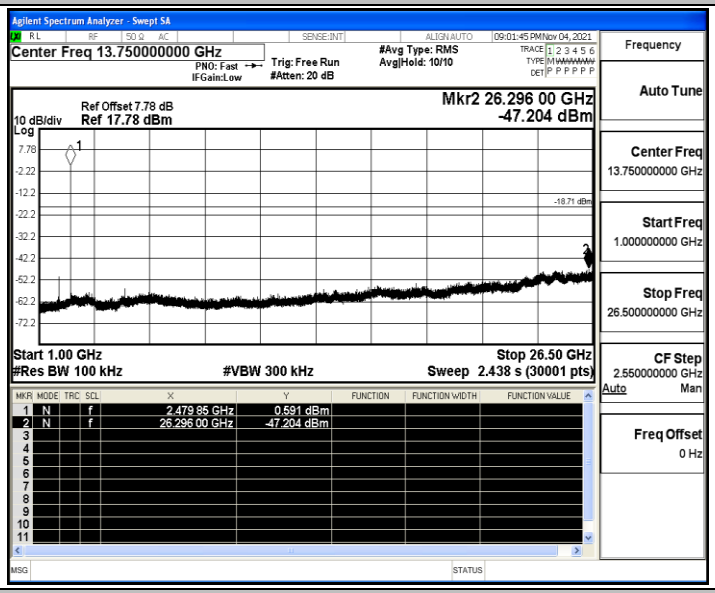
DH5_2480_0~Reference



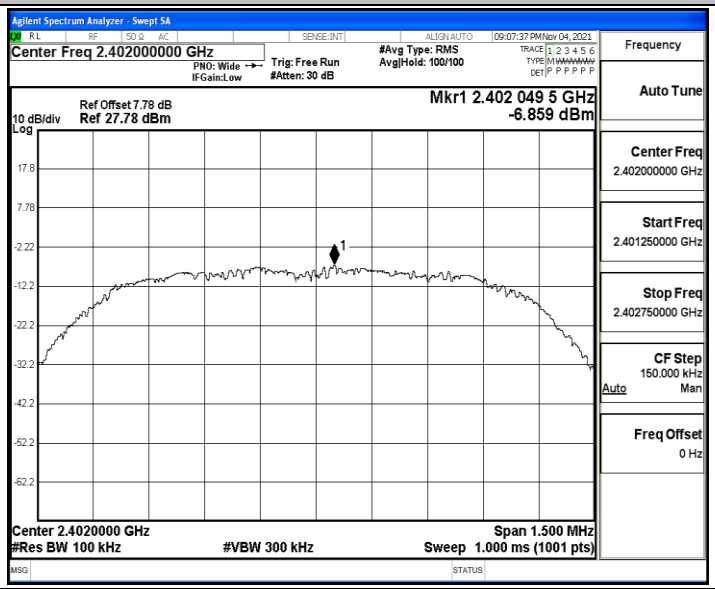
DH5_2480_30~1000

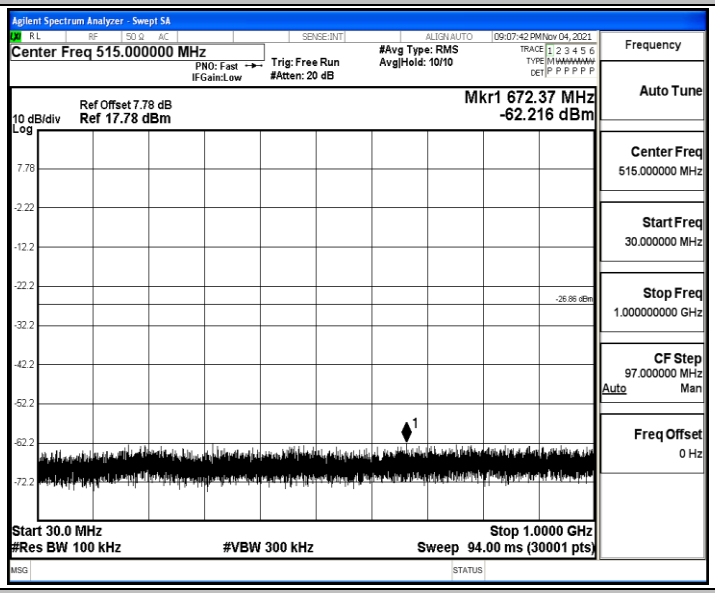
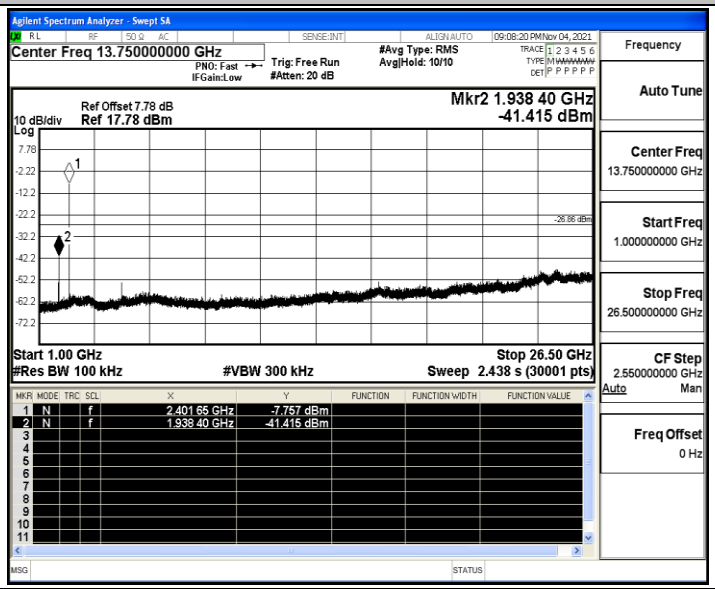


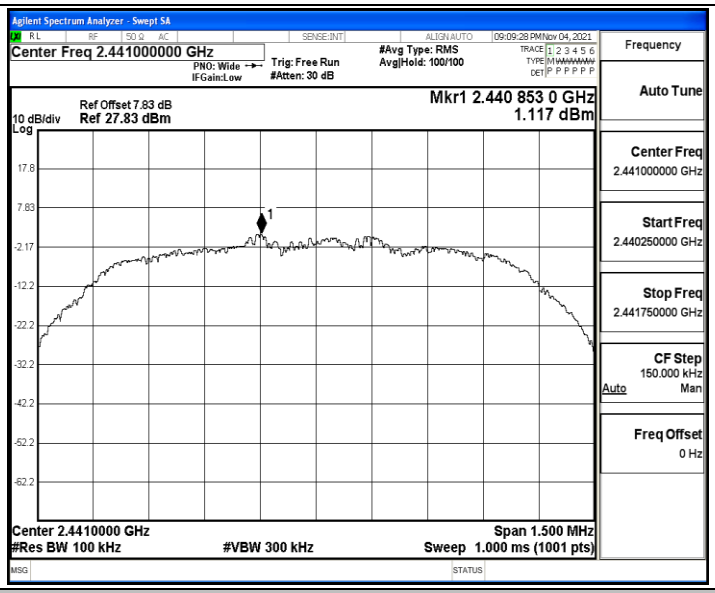
DH5_2480_1000~26500



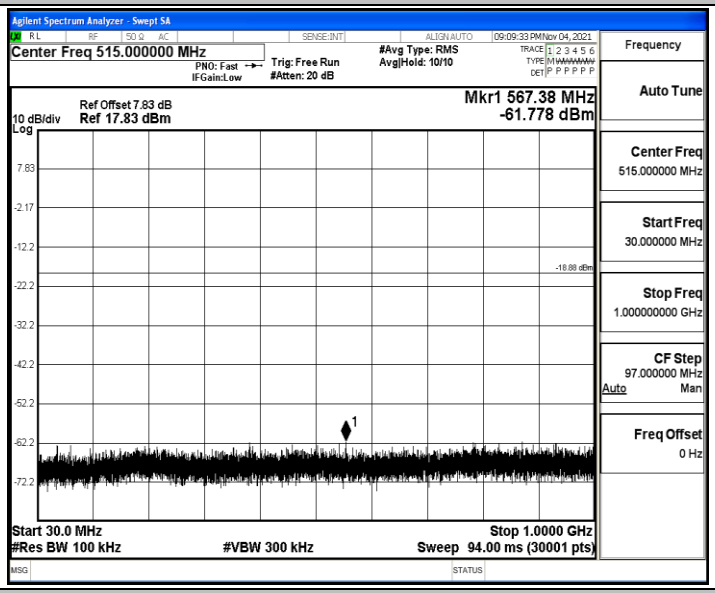
2DH5_2402_0~Reference



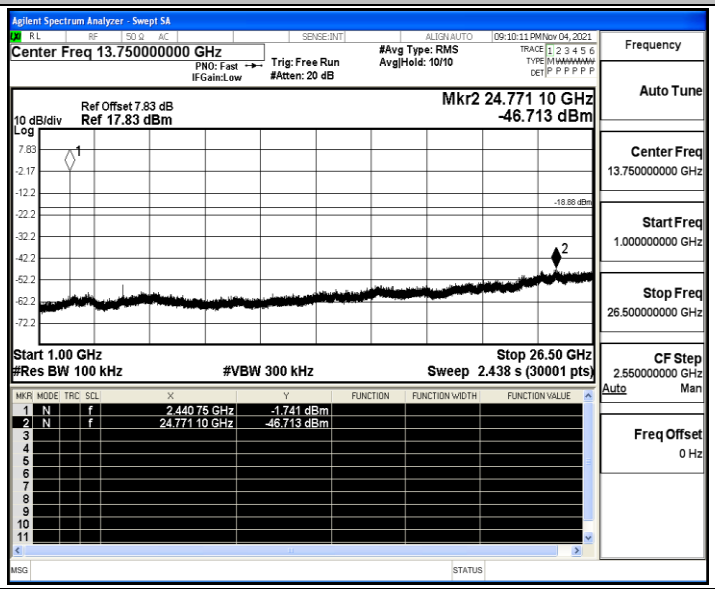
2DH5_2402_30~1000

2DH5_2402_1000~26500

2DH5_2441_0~Reference



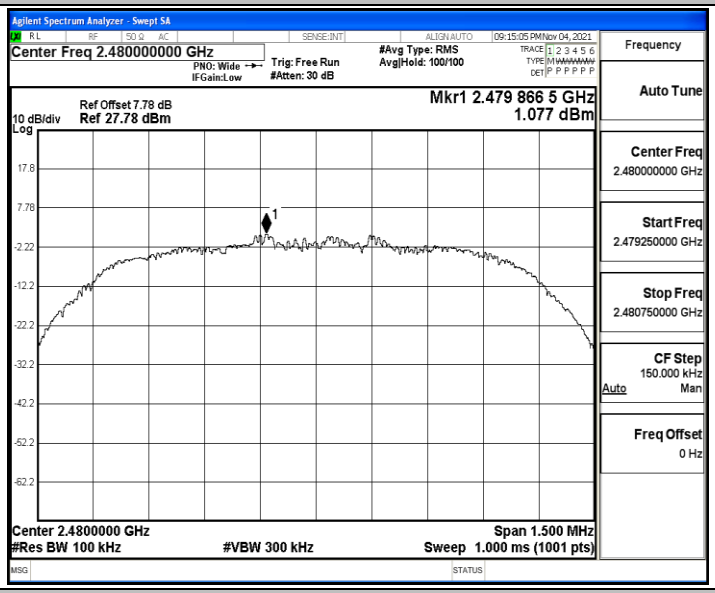
2DH5_2441_30~1000



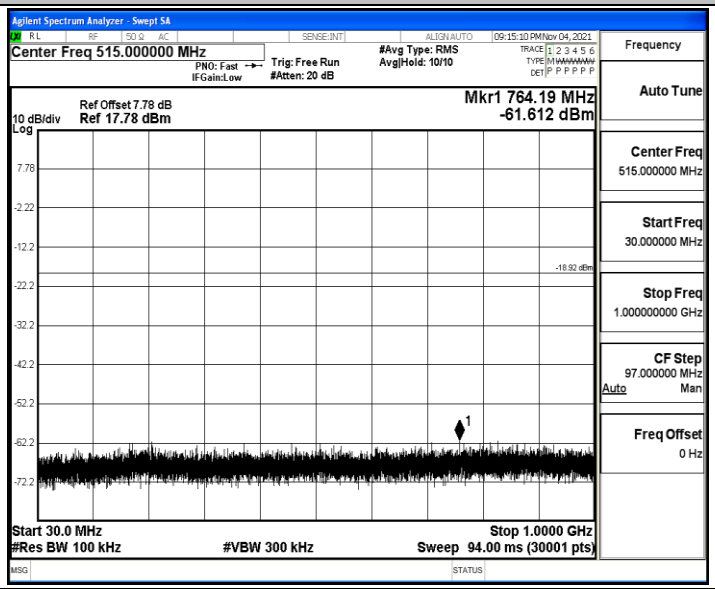
2DH5_2441_1000~26500



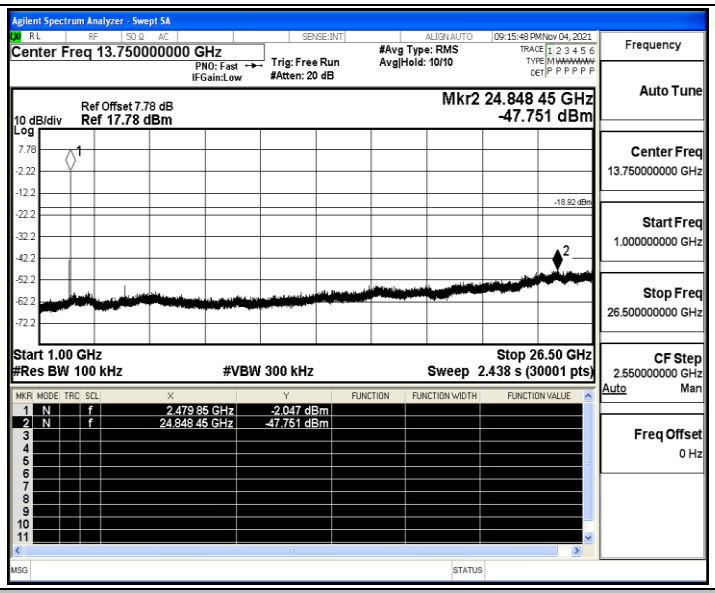
2DH5_2480_0~Reference



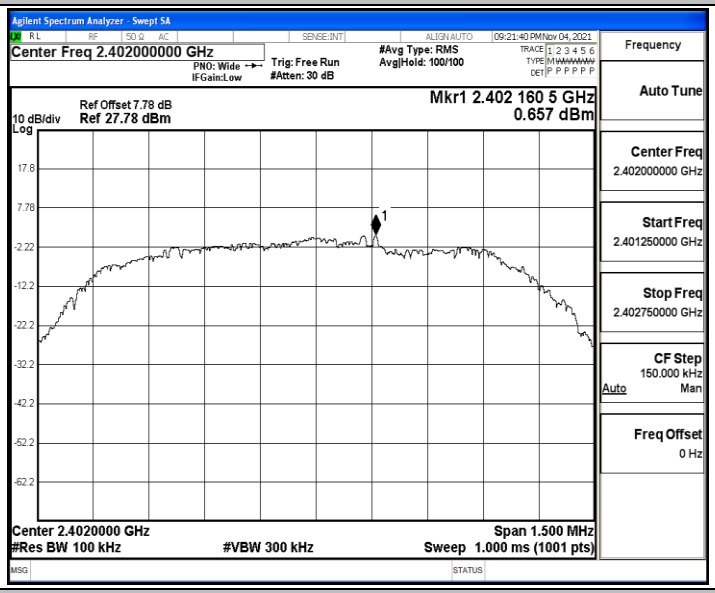
2DH5_2480_30~1000



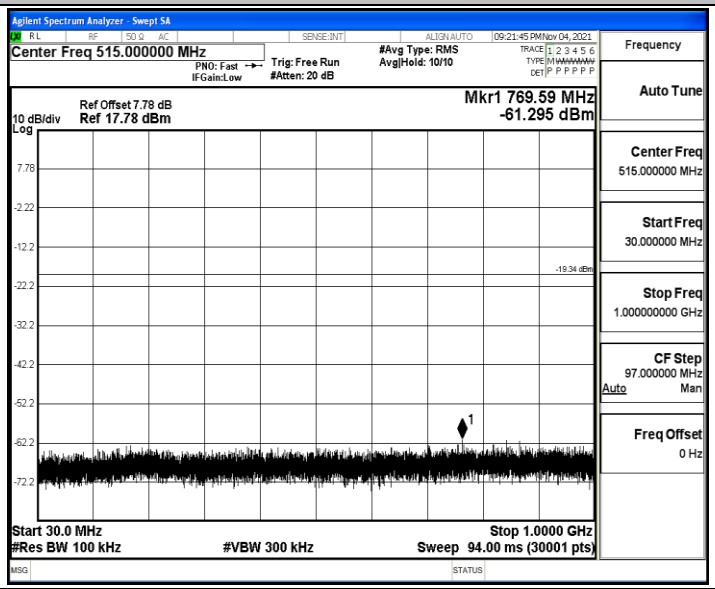
2DH5_2480_1000~26500

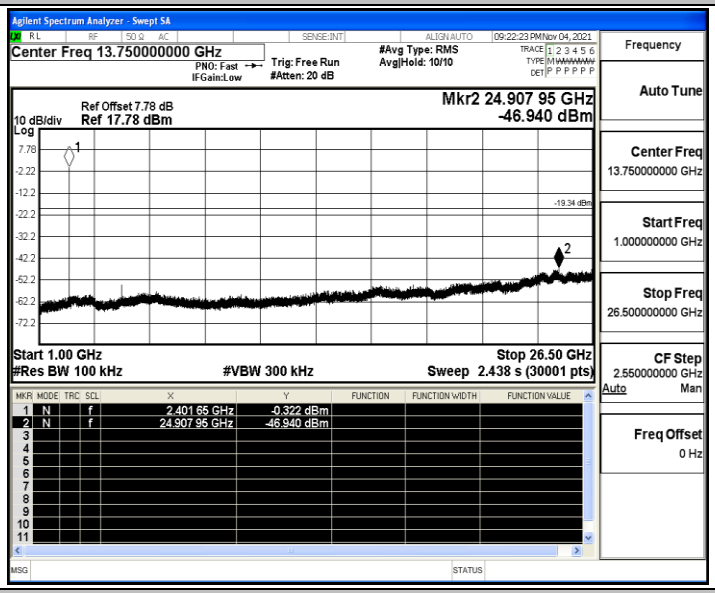
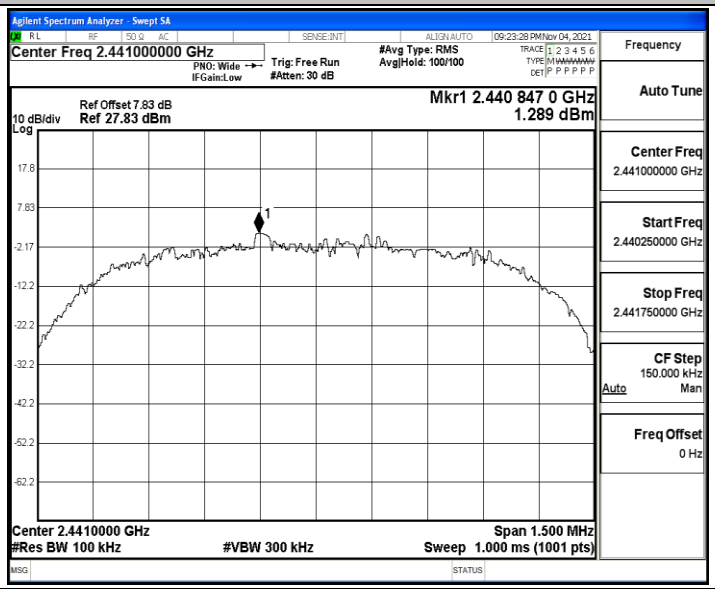


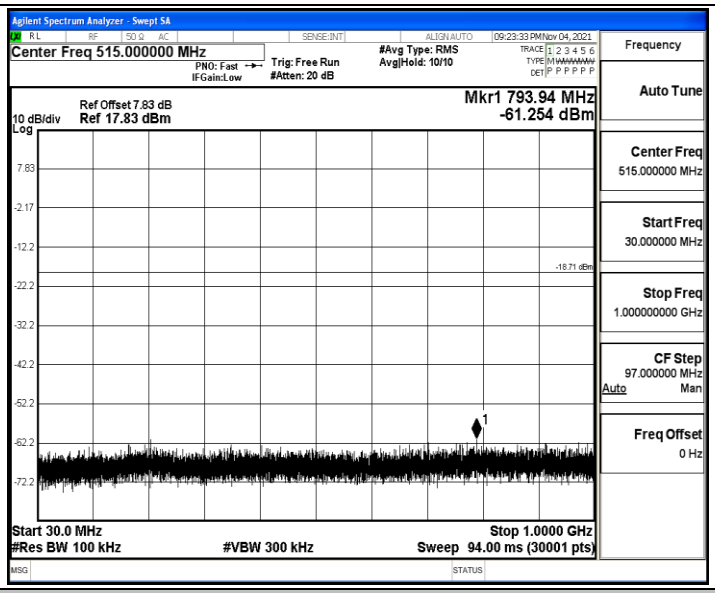
3DH5_2402_0~Reference



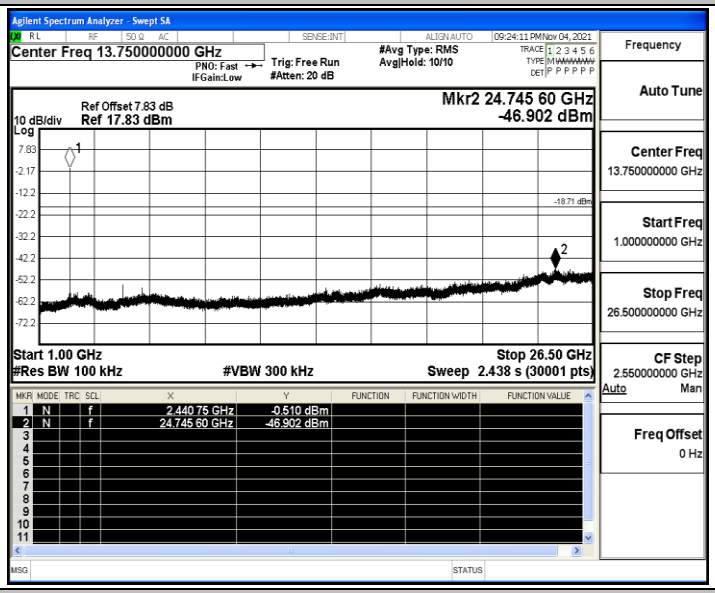
3DH5_2402_30~1000



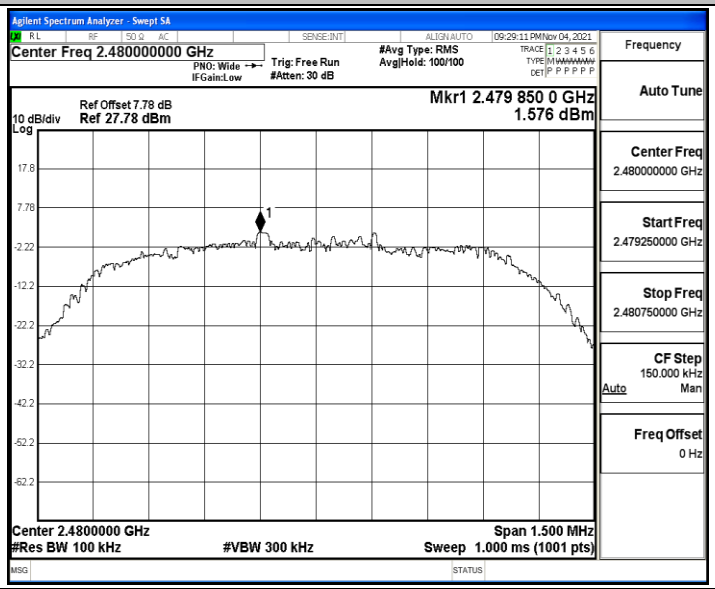
3DH5_2402_1000~26500

3DH5_2441_0~Reference

3DH5_2441_30~1000



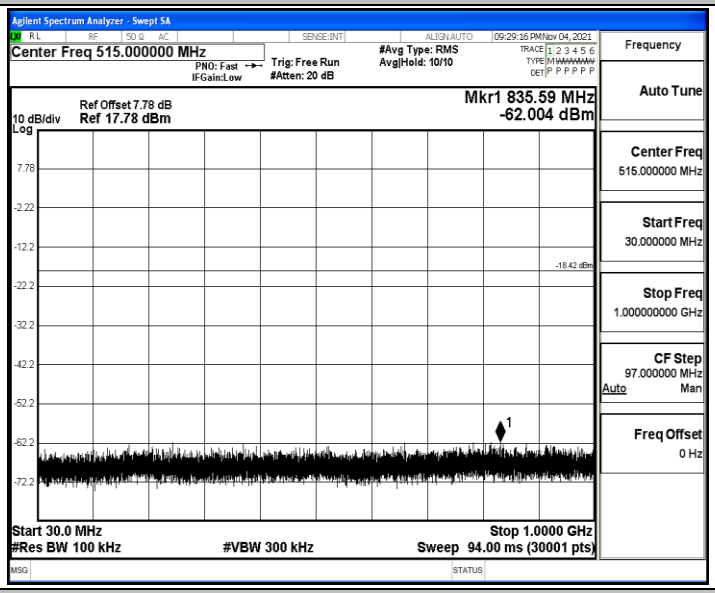
3DH5_2441_1000~26500



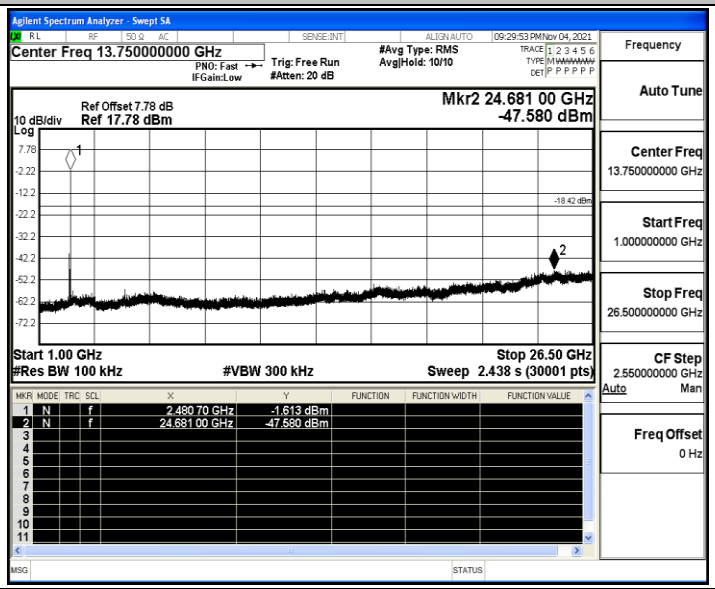
3DH5_2480_0~Reference



3DH5_2480_30~1000



3DH5_2480_1000~26500



A.8 Emissions in Restricted Bands

Test Result

Left Part

TestMode	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	2402	AV	2310.000	-48.95	≤-41.20	46.25	≤54	PASS
		AV	2389.250	-48.37	≤-41.20	46.83	≤54	PASS
		AV	2390.000	-48.48	≤-41.20	46.72	≤54	PASS
		Peak	2310.000	-39.29	≤-21.20	55.91	≤74	PASS
		Peak	2383.790	-38.27	≤-21.20	56.93	≤74	PASS
		Peak	2390.000	-40.08	≤-21.20	55.12	≤74	PASS
	2480	AV	2483.500	-47.12	≤-41.20	48.08	≤54	PASS
		AV	2483.520	-47.12	≤-41.20	48.08	≤54	PASS
		AV	2500.000	-47.95	≤-41.20	47.25	≤54	PASS
		Peak	2483.500	-39.99	≤-21.20	55.21	≤74	PASS
		Peak	2498.480	-37.65	≤-21.20	57.55	≤74	PASS
		Peak	2500.000	-38.93	≤-21.20	56.27	≤74	PASS
	Hop_2402	Peak	2310.000	-41.35	≤-21.20	53.85	≤74	PASS
		Peak	2372.765	-38.24	≤-21.20	56.96	≤74	PASS
		Peak	2390.000	-40.66	≤-21.20	54.54	≤74	PASS
	Hop_2480	Peak	2483.500	-39.68	≤-21.20	55.52	≤74	PASS
		Peak	2494.880	-38.16	≤-21.20	57.04	≤74	PASS
		Peak	2500.000	-38.9	≤-21.20	56.30	≤74	PASS
2DH5	2402	AV	2310.000	-48.93	≤-41.20	46.27	≤54	PASS
		AV	2387.570	-48.41	≤-41.20	46.79	≤54	PASS
		AV	2390.000	-48.55	≤-41.20	46.65	≤54	PASS
		Peak	2310.000	-40.78	≤-21.20	54.42	≤74	PASS
		Peak	2369.825	-38.4	≤-21.20	56.80	≤74	PASS
		Peak	2390.000	-40.58	≤-21.20	54.62	≤74	PASS
	2480	AV	2483.500	-47.16	≤-41.20	48.04	≤54	PASS
		AV	2483.520	-47.16	≤-41.20	48.04	≤54	PASS
		AV	2500.000	-47.92	≤-41.20	47.28	≤54	PASS
		Peak	2483.500	-39.54	≤-21.20	55.66	≤74	PASS
		Peak	2485.360	-37.54	≤-21.20	57.66	≤74	PASS
		Peak	2500.000	-40.18	≤-21.20	55.02	≤74	PASS
	Hop_2402	Peak	2310.000	-40.88	≤-21.20	54.32	≤74	PASS
		Peak	2331.185	-38.71	≤-21.20	56.49	≤74	PASS
		Peak	2390.000	-40.54	≤-21.20	54.66	≤74	PASS
	Hop_2480	Peak	2483.500	-40.48	≤-21.20	54.72	≤74	PASS
		Peak	2497.120	-37.75	≤-21.20	57.45	≤74	PASS
		Peak	2500.000	-39.43	≤-21.20	55.77	≤74	PASS

3DH5	2402	AV	2310.000	-48.93	≤-41.20	46.27	≤54	PASS
		AV	2387.465	-48.43	≤-41.20	46.77	≤54	PASS
		AV	2390.000	-48.55	≤-41.20	46.65	≤54	PASS
		Peak	2310.000	-40.59	≤-21.20	54.61	≤74	PASS
		Peak	2337.065	-37.96	≤-21.20	57.24	≤74	PASS
		Peak	2390.000	-41.03	≤-21.20	54.17	≤74	PASS
	2480	AV	2483.500	-47.17	≤-41.20	48.03	≤54	PASS
		AV	2483.520	-47.17	≤-41.20	48.03	≤54	PASS
		AV	2500.000	-47.89	≤-41.20	47.31	≤54	PASS
		Peak	2483.500	-39.69	≤-21.20	55.51	≤74	PASS
		Peak	2496.080	-38.08	≤-21.20	57.12	≤74	PASS
		Peak	2500.000	-38.77	≤-21.20	56.43	≤74	PASS
	Hop_2402	Peak	2310.000	-41.19	≤-21.20	54.01	≤74	PASS
		Peak	2359.850	-38.2	≤-21.20	57.00	≤74	PASS
		Peak	2390.000	-40.6	≤-21.20	54.60	≤74	PASS
	Hop_2480	Peak	2483.500	-40.16	≤-21.20	55.04	≤74	PASS
		Peak	2498.400	-37.49	≤-21.20	57.71	≤74	PASS
		Peak	2500.000	-40.37	≤-21.20	54.83	≤74	PASS

Right Part

TestMode	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	2402	AV	2310.000	-48.87	≤-41.20	46.33	≤54	PASS
		AV	2383.265	-48.32	≤-41.20	46.88	≤54	PASS
		AV	2390.000	-48.42	≤-41.20	46.78	≤54	PASS
		Peak	2310.000	-40.61	≤-21.20	54.59	≤74	PASS
		Peak	2323.520	-37.92	≤-21.20	57.28	≤74	PASS
		Peak	2390.000	-39.8	≤-21.20	55.40	≤74	PASS
	2480	AV	2483.500	-47.14	≤-41.20	48.06	≤54	PASS
		AV	2483.520	-47.14	≤-41.20	48.06	≤54	PASS
		AV	2500.000	-47.98	≤-41.20	47.22	≤54	PASS
		Peak	2483.500	-39.03	≤-21.20	56.17	≤74	PASS
		Peak	2484.240	-37.86	≤-21.20	57.34	≤74	PASS
		Peak	2500.000	-39.63	≤-21.20	55.57	≤74	PASS
	Hop_2402	Peak	2310.000	-41.36	≤-21.20	53.84	≤74	PASS
		Peak	2372.135	-37.75	≤-21.20	57.45	≤74	PASS
		Peak	2390.000	-39.12	≤-21.20	56.08	≤74	PASS
	Hop_2480	Peak	2483.500	-38.39	≤-21.20	56.81	≤74	PASS
		Peak	2486.720	-37.84	≤-21.20	57.36	≤74	PASS
		Peak	2500.000	-39.54	≤-21.20	55.66	≤74	PASS

2DH5	2402	AV	2310.000	-48.87	≤-41.20	46.33	≤54	PASS
		AV	2381.900	-48.39	≤-41.20	46.81	≤54	PASS
		AV	2390.000	-48.51	≤-41.20	46.69	≤54	PASS
		Peak	2310.000	-40.55	≤-21.20	54.65	≤74	PASS
		Peak	2323.730	-38.46	≤-21.20	56.74	≤74	PASS
		Peak	2390.000	-40.26	≤-21.20	54.94	≤74	PASS
	2480	AV	2483.500	-47.04	≤-41.20	48.16	≤54	PASS
		AV	2483.520	-47.04	≤-41.20	48.16	≤54	PASS
		AV	2500.000	-47.91	≤-41.20	47.29	≤54	PASS
		Peak	2483.500	-39.45	≤-21.20	55.75	≤74	PASS
		Peak	2484.240	-37.84	≤-21.20	57.36	≤74	PASS
		Peak	2500.000	-39.67	≤-21.20	55.53	≤74	PASS
	Hop_2402	Peak	2310.000	-41.39	≤-21.20	53.81	≤74	PASS
		Peak	2358.065	-38.48	≤-21.20	56.72	≤74	PASS
		Peak	2390.000	-40.42	≤-21.20	54.78	≤74	PASS
	Hop_2480	Peak	2483.500	-39.35	≤-21.20	55.85	≤74	PASS
		Peak	2492.880	-37.42	≤-21.20	57.78	≤74	PASS
		Peak	2500.000	-39.81	≤-21.20	55.39	≤74	PASS
3DH5	2402	AV	2310.000	-48.93	≤-41.20	46.27	≤54	PASS
		AV	2387.990	-48.34	≤-41.20	46.86	≤54	PASS
		AV	2390.000	-48.44	≤-41.20	46.76	≤54	PASS
		Peak	2310.000	-40.57	≤-21.20	54.63	≤74	PASS
		Peak	2386.940	-37.98	≤-21.20	57.22	≤74	PASS
		Peak	2390.000	-40.53	≤-21.20	54.67	≤74	PASS
	2480	AV	2483.500	-47.19	≤-41.20	48.01	≤54	PASS
		AV	2483.520	-47.19	≤-41.20	48.01	≤54	PASS
		AV	2500.000	-47.93	≤-41.20	47.27	≤54	PASS
		Peak	2483.500	-40.23	≤-21.20	54.97	≤74	PASS
		Peak	2486.720	-37.77	≤-21.20	57.43	≤74	PASS
		Peak	2500.000	-39.79	≤-21.20	55.41	≤74	PASS
	Hop_2402	Peak	2310.000	-40.53	≤-21.20	54.67	≤74	PASS
		Peak	2364.470	-37.8	≤-21.20	57.40	≤74	PASS
		Peak	2390.000	-40.42	≤-21.20	54.78	≤74	PASS
	Hop_2480	Peak	2483.500	-40.45	≤-21.20	54.75	≤74	PASS
		Peak	2490.240	-37.82	≤-21.20	57.38	≤74	PASS
		Peak	2500.000	-39.95	≤-21.20	55.25	≤74	PASS

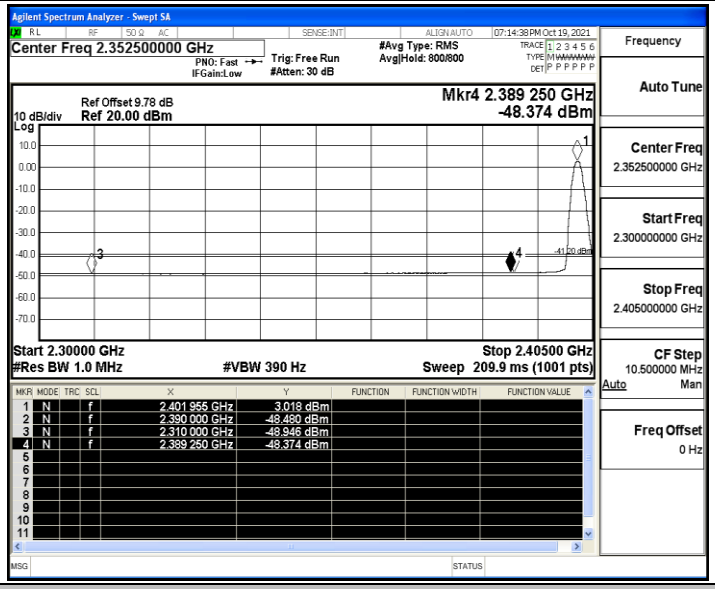
Note：

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

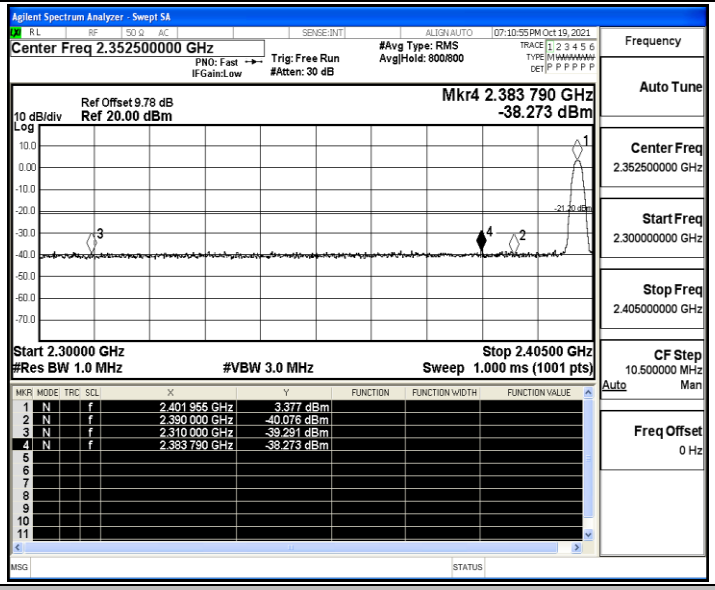
Test Graphs

Left Part

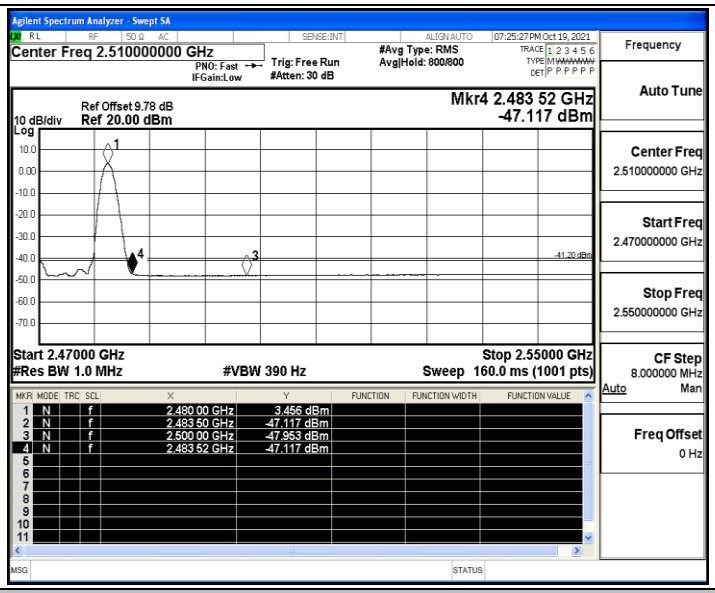
DH5_Low_2402_AV



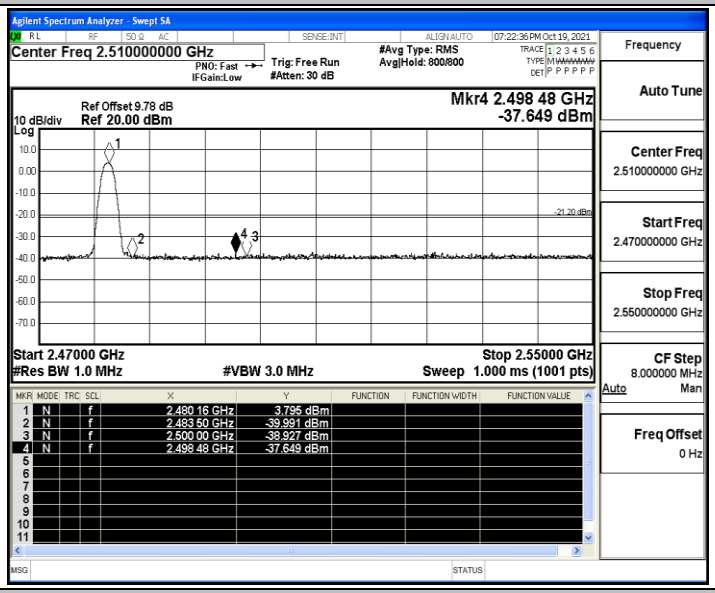
DH5_Low_2402_Peak



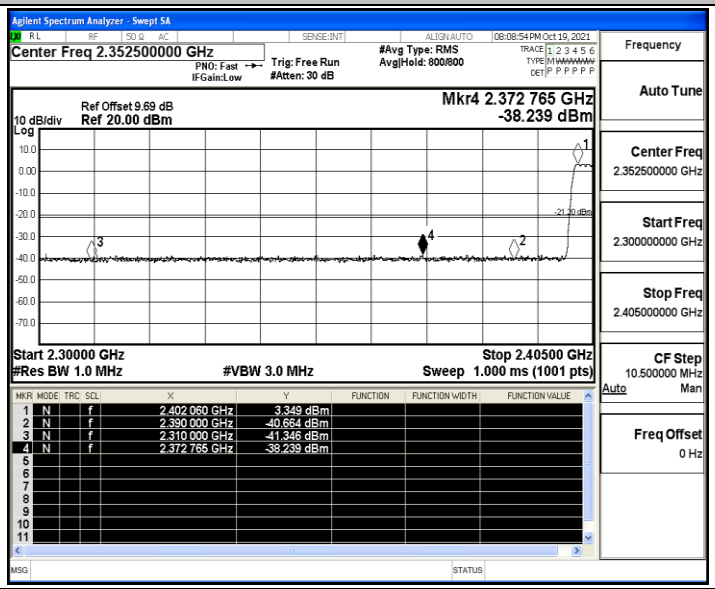
DH5_High_2480_AV



DH5_High_2480_Peak



DH5_Low_Hop_2402_Peak



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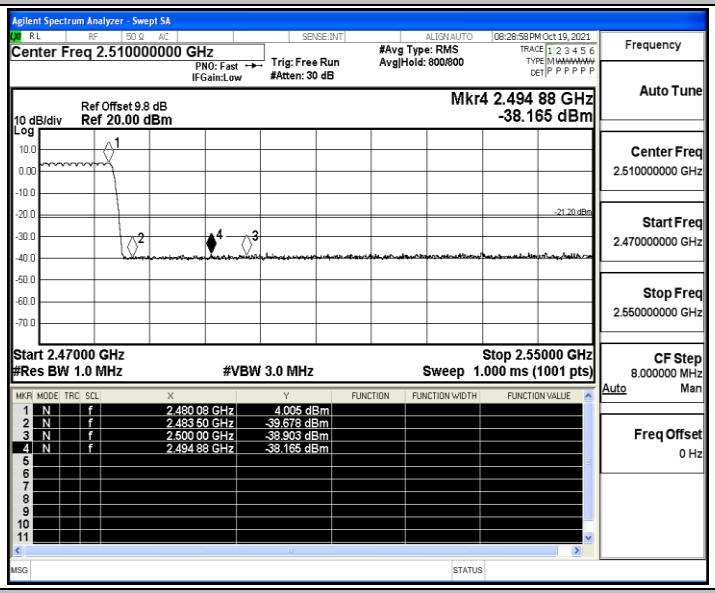

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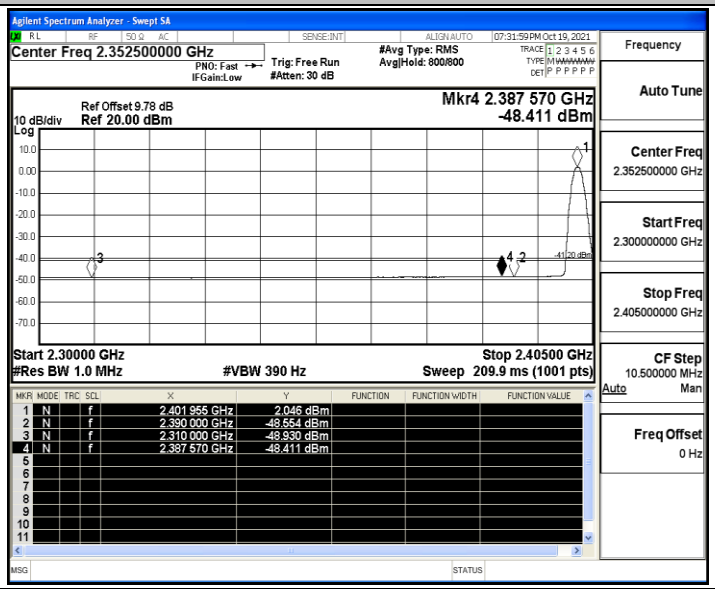
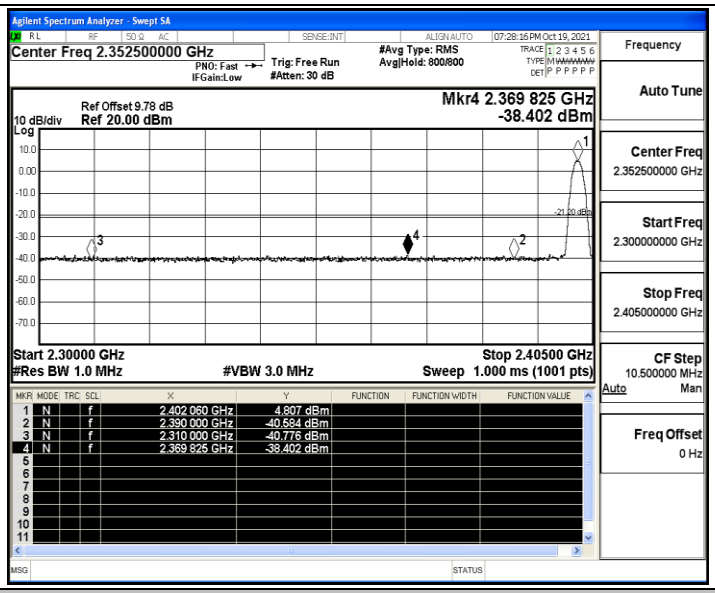
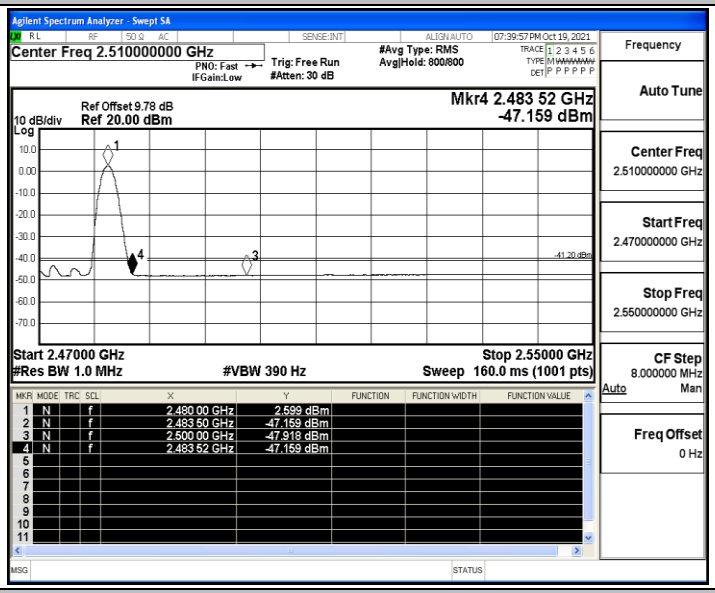


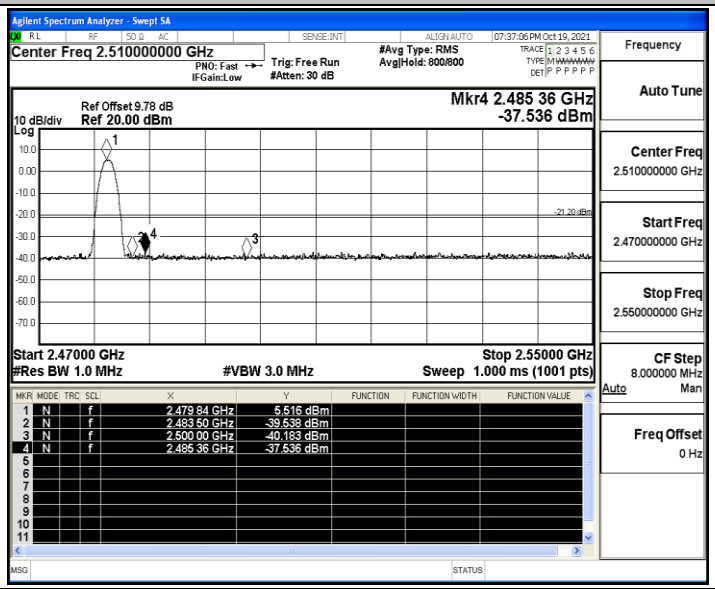
2DH5_Low_2402_Peak

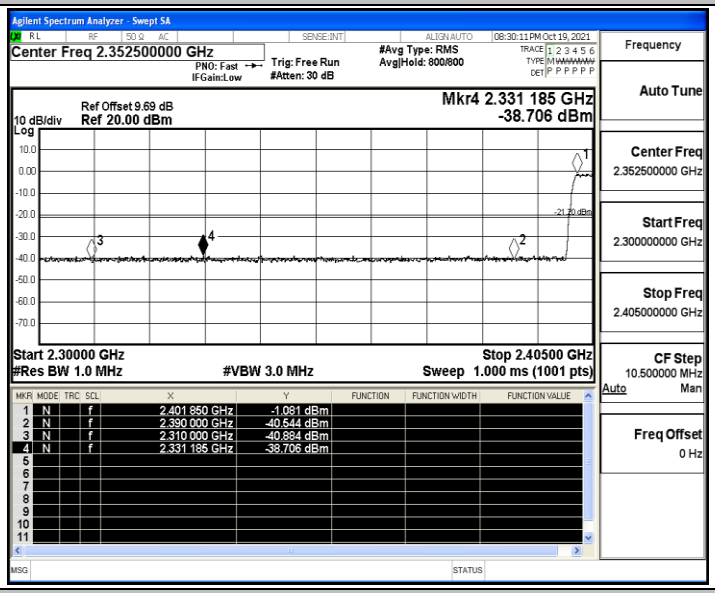
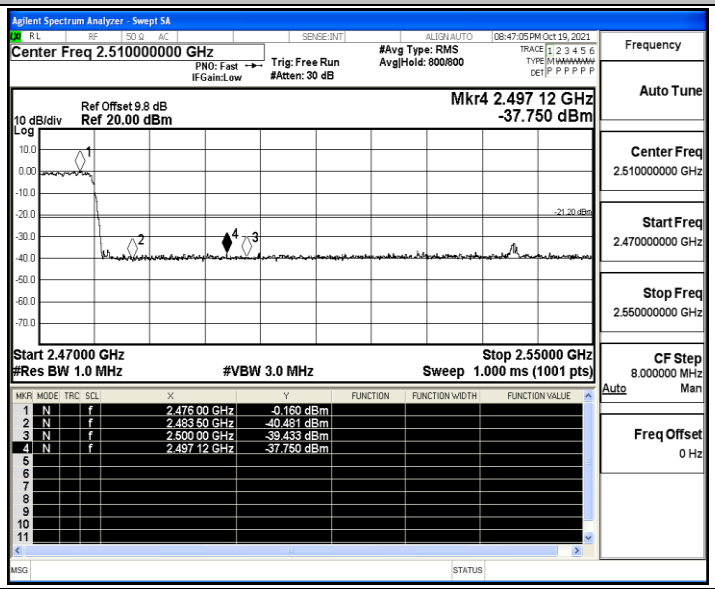


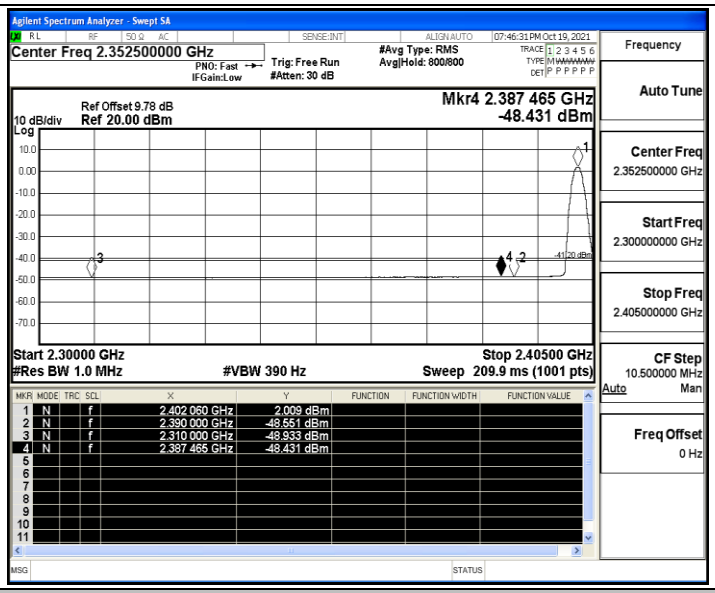
2DH5_High_2480_AV



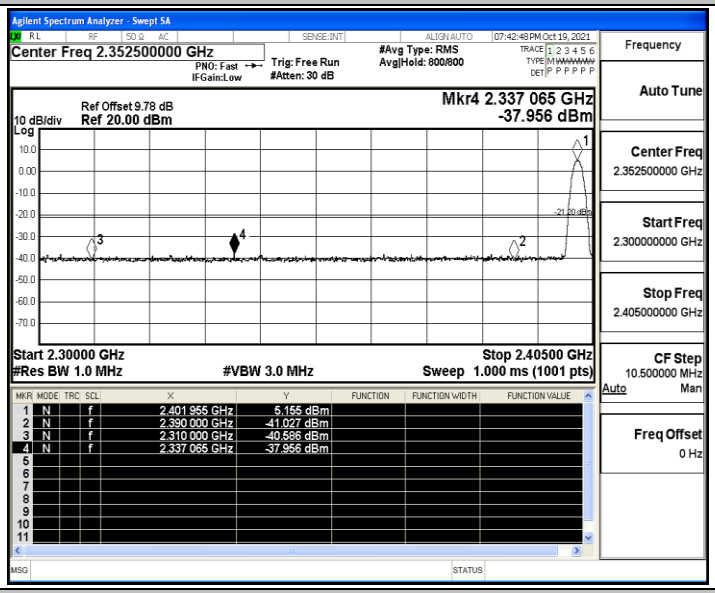
2DH5_High_2480_Peak



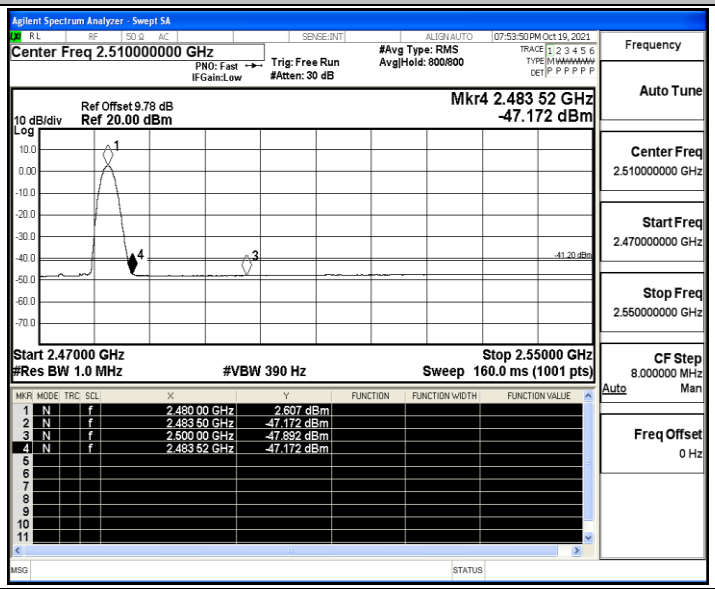
2DH5_Low_Hop_2402_Peak

2DH5_High_Hop_2480_Peak

3DH5_Low_2402_AV



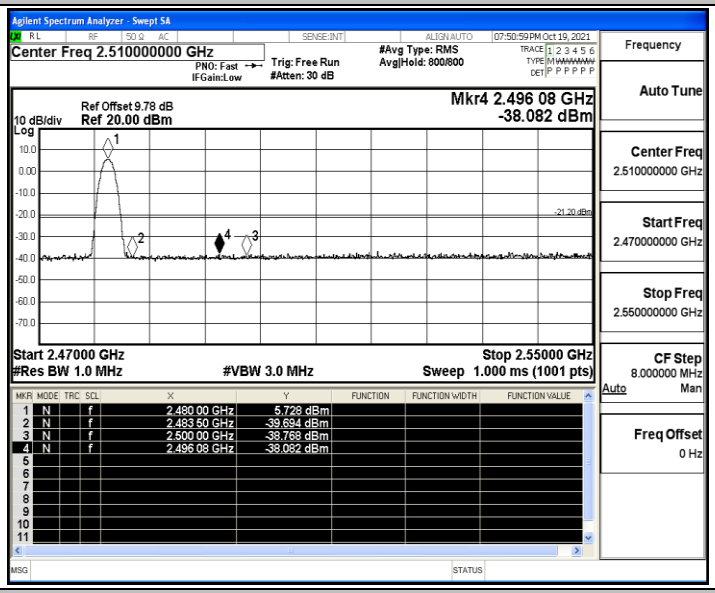
3DH5_Low_2402_Peak



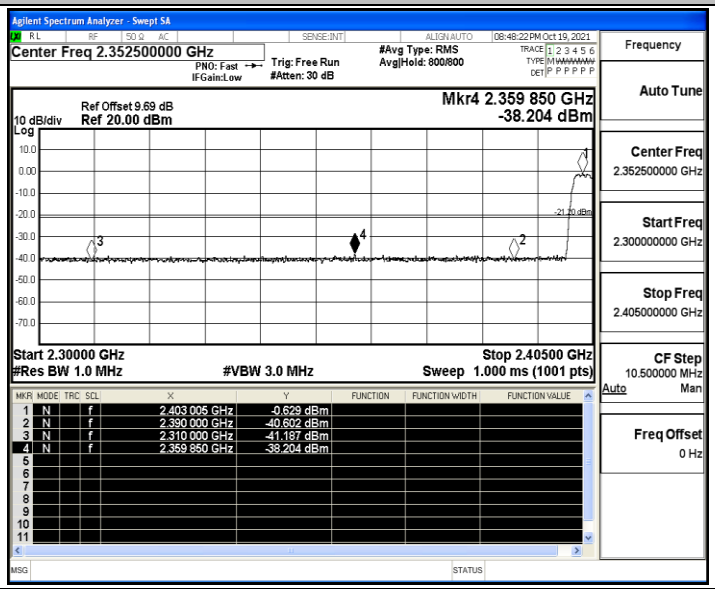
3DH5_High_2480_AV



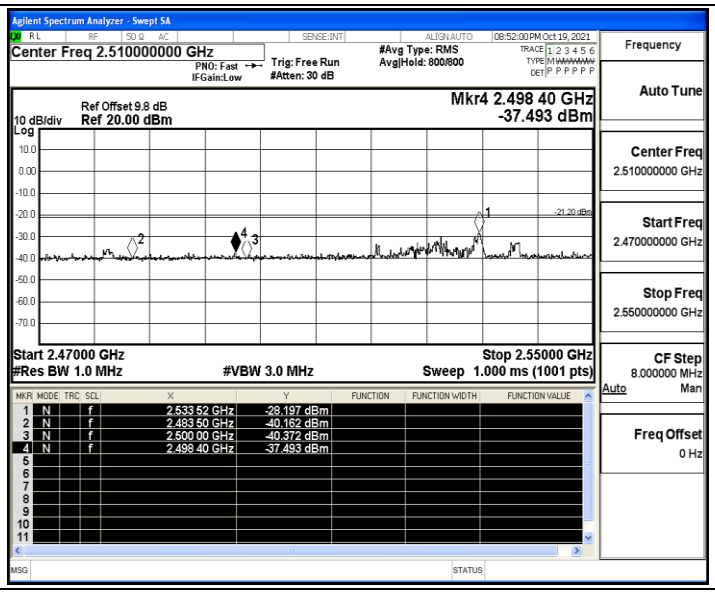
3DH5_High_2480_Peak



3DH5_Low_Hop_2402_Peak

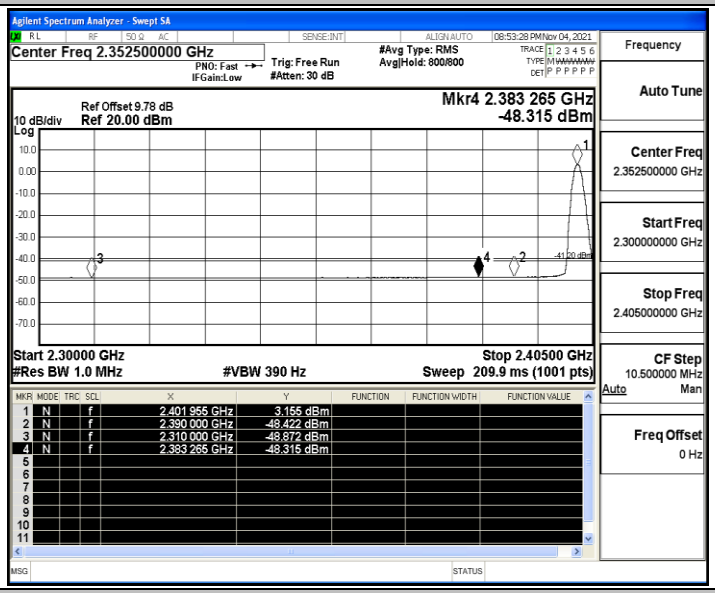


3DH5_High_Hop_2480_Peak

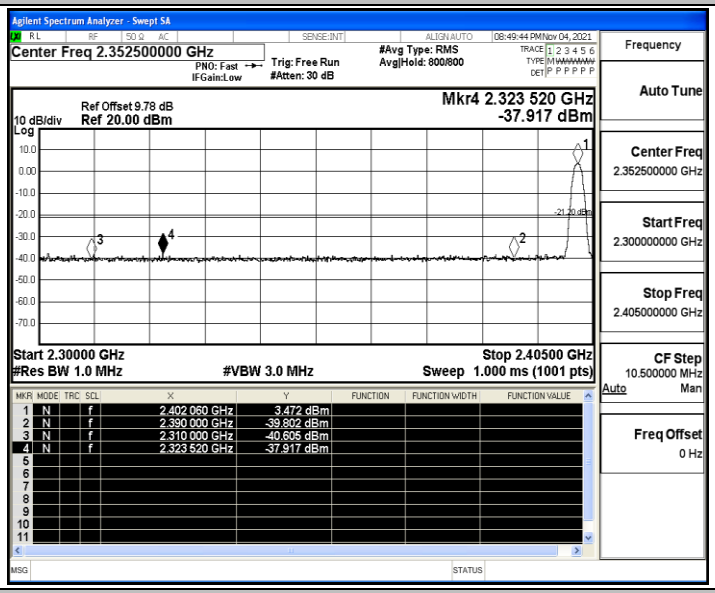

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.510000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 800/800
08:52:00 PM Oct 19, 2021
Ref Offset 9.8 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.498 40 GHz
-37.493 dBm
-21.20 dBm
Start 2.47000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 2.55000 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 2.533 52 GHz -28.197 dBm
2 N 1 f 2.483 50 GHz -40.162 dBm
3 N 1 f 2.500 00 GHz -40.372 dBm
4 N 1 f 2.498 40 GHz -37.493 dBm
Frequency
Auto Tune
Center Freq
2.510000000 GHz
Start Freq
2.470000000 GHz
Stop Freq
2.550000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

Right Part

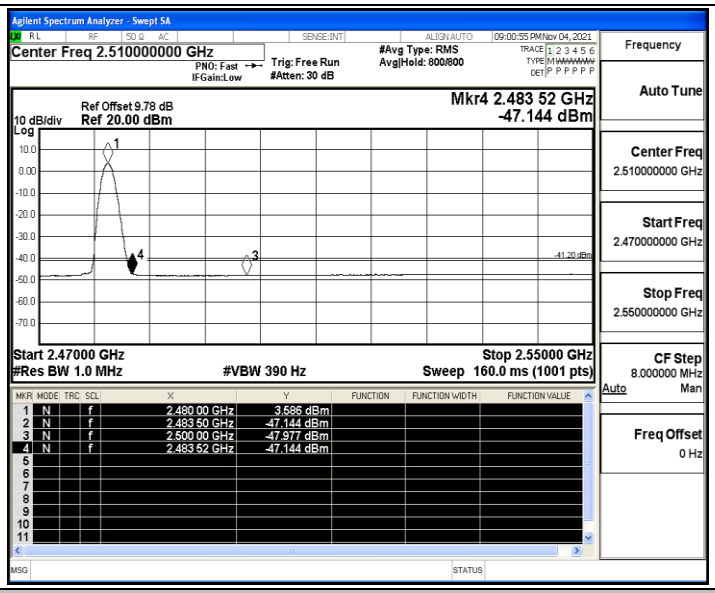
DH5_Low_2402_AV



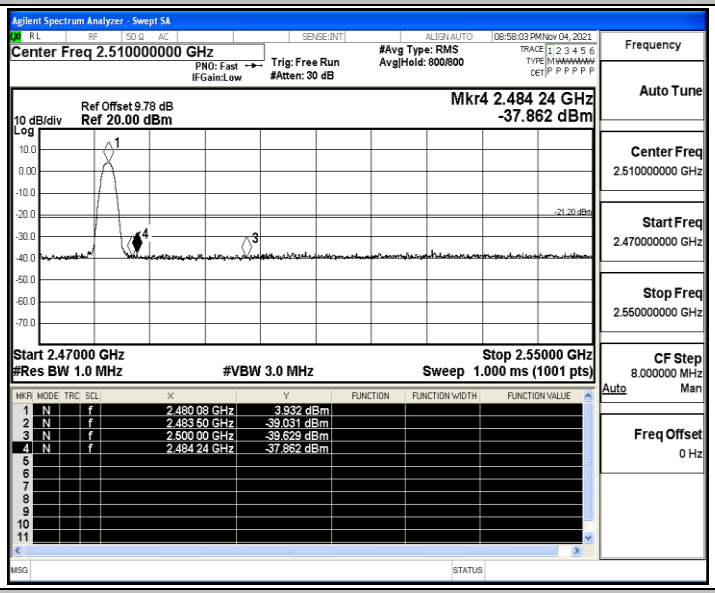
DH5_Low_2402_Peak



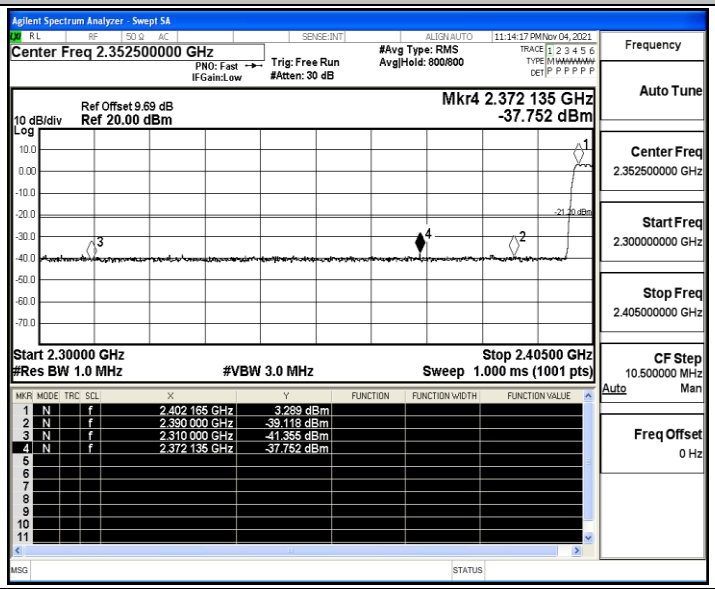
DH5_High_2480_AV



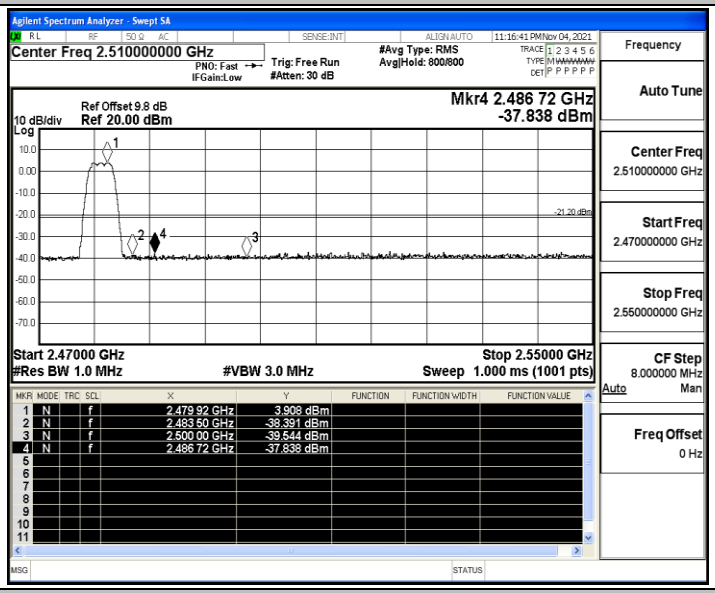
DH5_High_2480_Peak



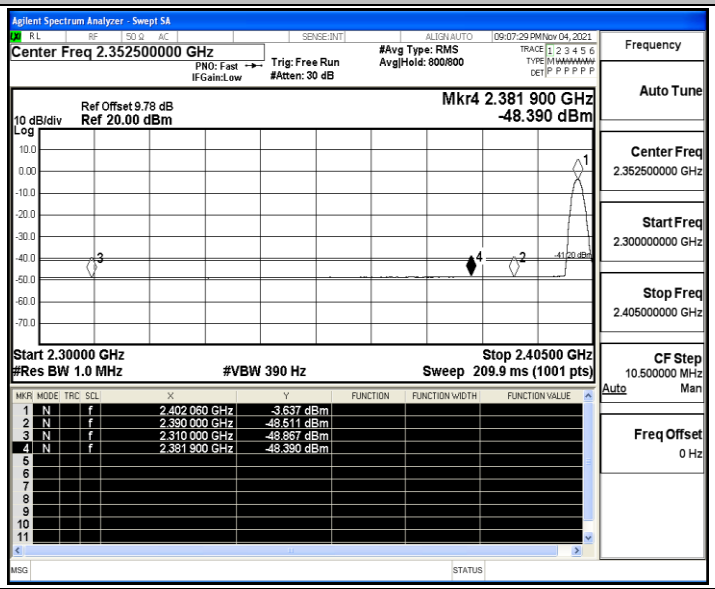
DH5_Low_Hop_2402_Peak



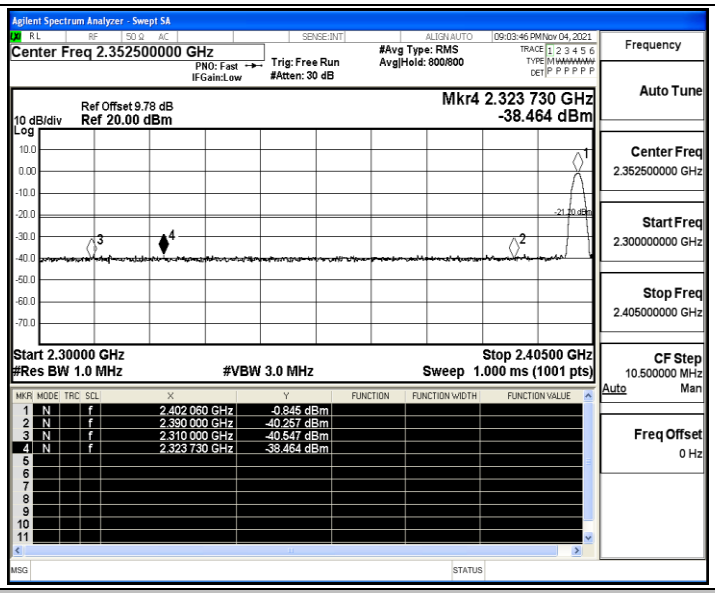
DH5_High_Hop_2480_Peak



2DH5_Low_2402_AV



2DH5_Low_2402_Peak



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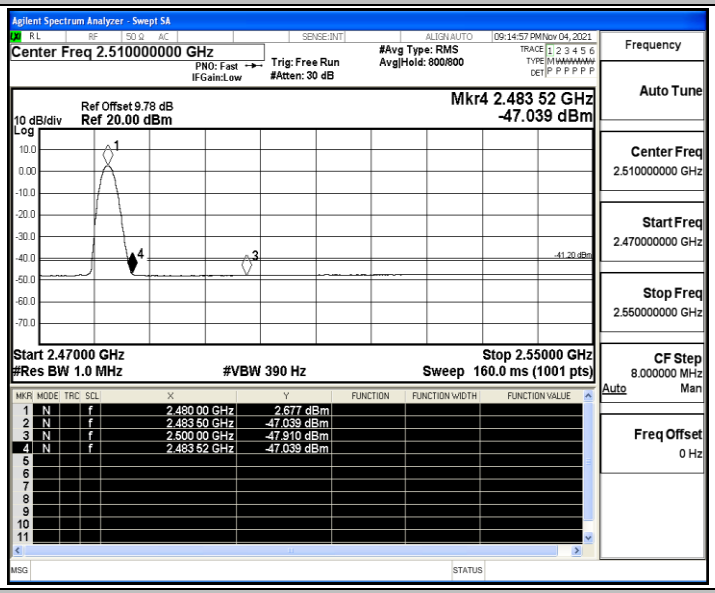

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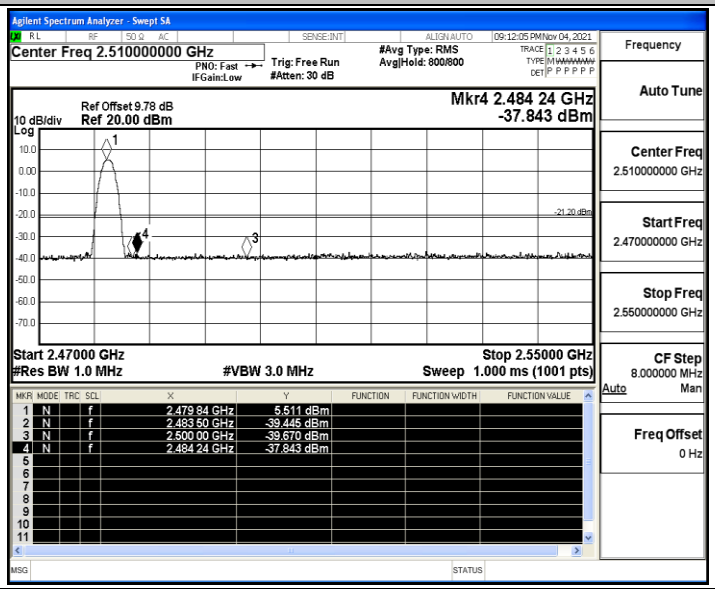

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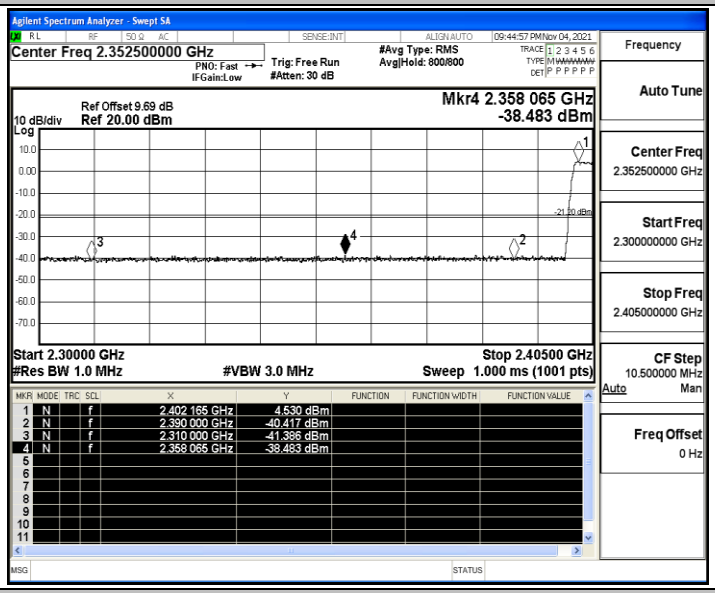
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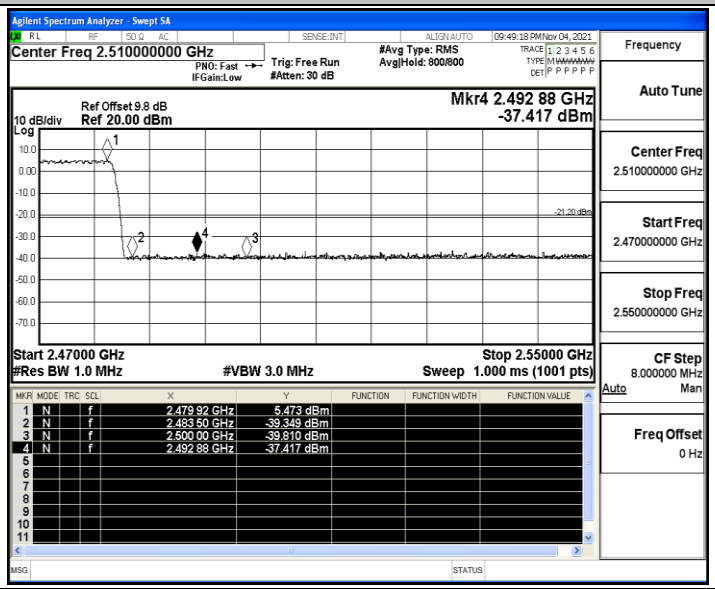
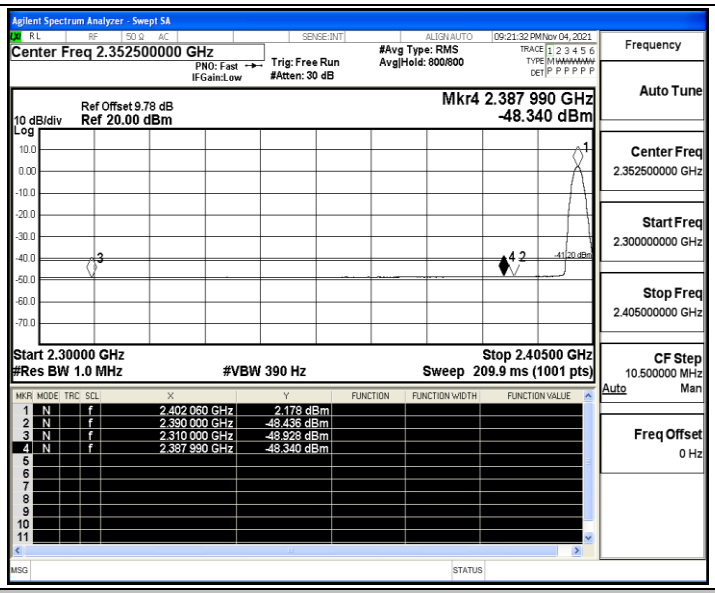

3DH5_Low_2402_AV



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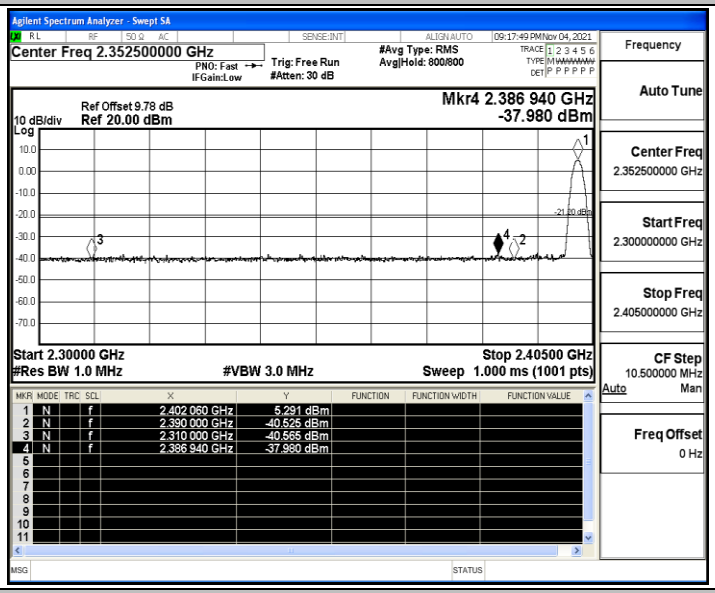

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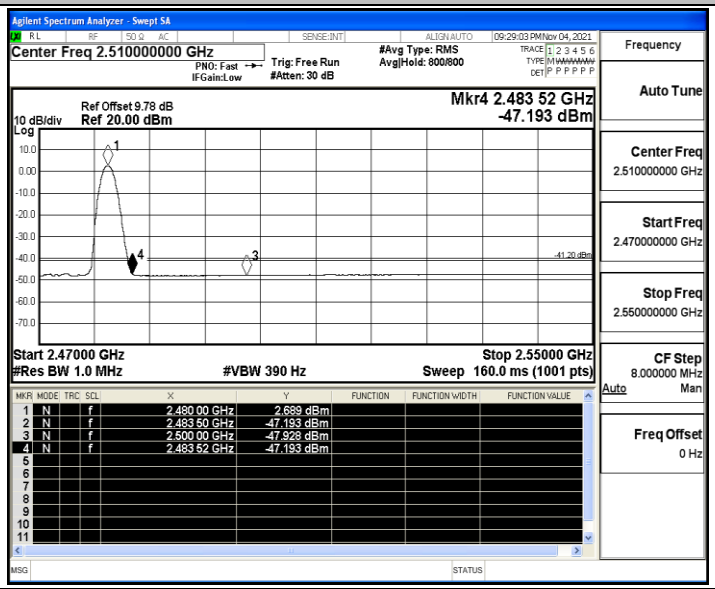

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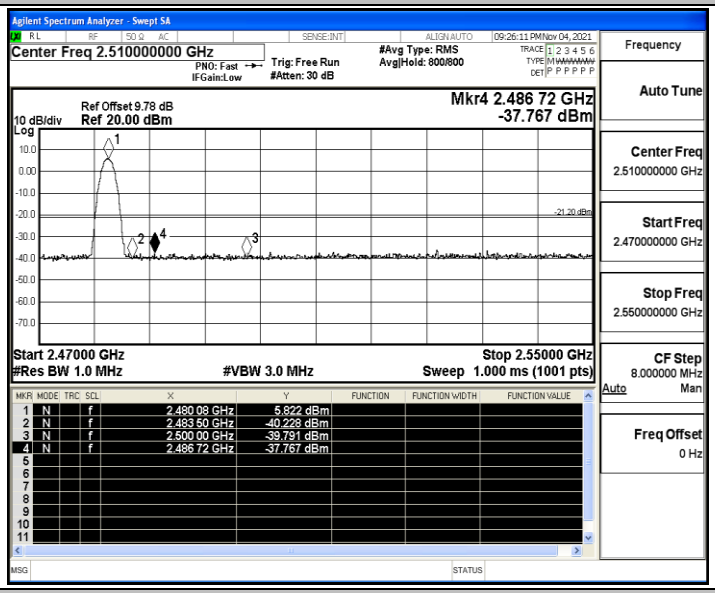
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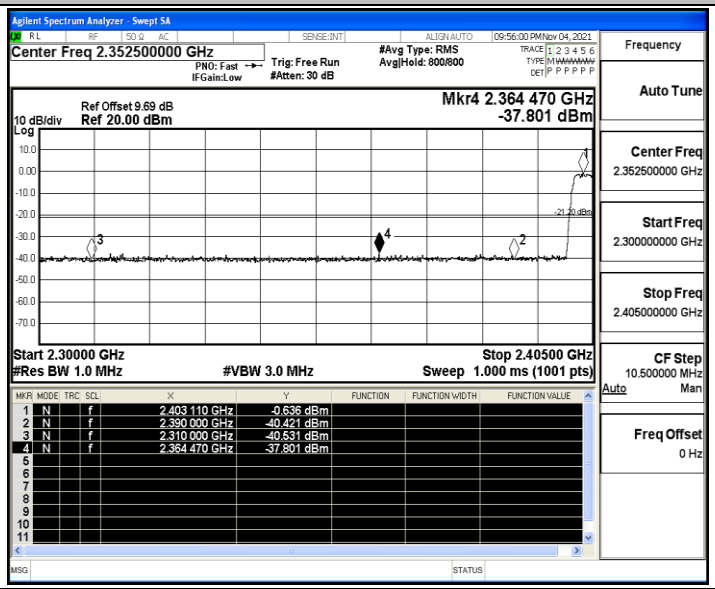
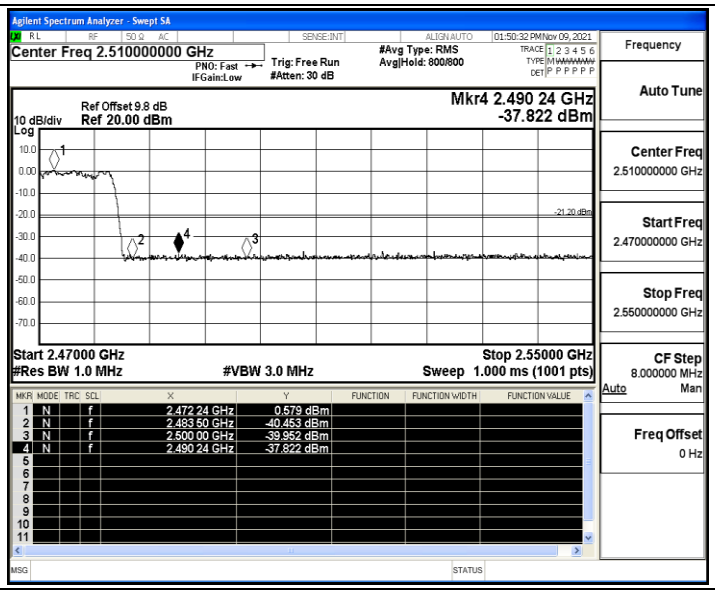

3DH5_High_Hop_2480_Peak


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.510000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 800/800
01:50:32 PM Nov 09, 2021
Ref Offset 9.8 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.490 24 GHz
-37.822 dBm
-21.20 dBm
Start 2.47000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 2.55000 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 2.472 24 GHz 0.579 dBm
2 N 1 f 2.483 50 GHz -40.453 dBm
3 N 1 f 2.500 00 GHz -39.952 dBm
4 N 1 f 2.490 24 GHz -37.822 dBm
Frequency
Auto Tune
Center Freq
2.510000000 GHz
Start Freq
2.470000000 GHz
Stop Freq
2.550000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz