Appendix A

Project No.:	2501S16535E-RF
EUT Number:	314T-3
Operating Mode:	Transmitting
Test Conditions:	Temperature: 25~26.8℃ Relative Humidity:45~52% ATM Pressure:101kPa
Test Engineer:	Warm Xu
Test Date:	2025.4.28~2025.5.29

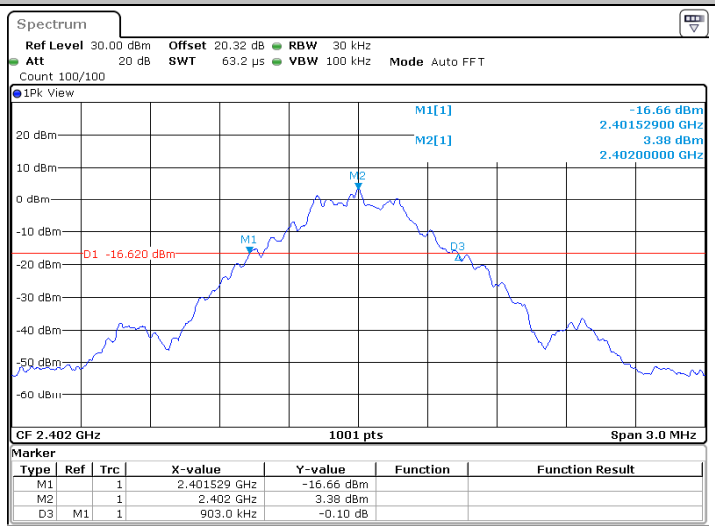
20dB Emission Bandwidth

Test Result

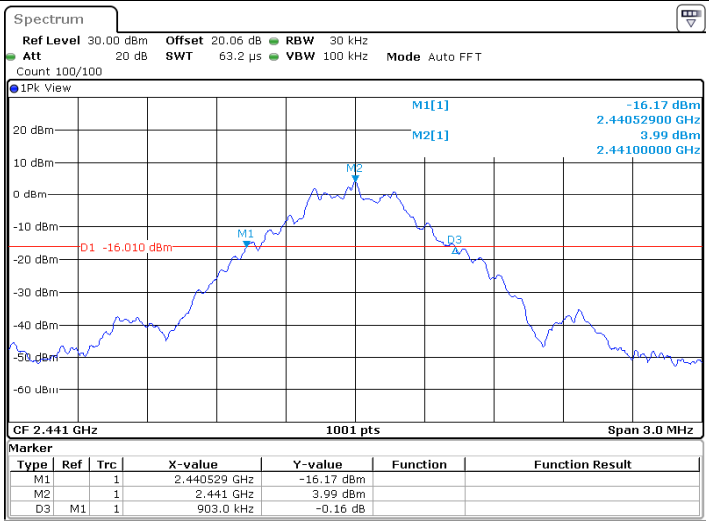
Test Mode	Antenna	Frequency [MHz]	20dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.90	2401.53	2402.43	---	---
		2441	0.90	2440.53	2441.43	---	---
		2480	0.91	2479.53	2480.44	---	---
2DH1	Ant1	2402	1.18	2401.40	2402.58	---	---
		2441	1.18	2440.40	2441.58	---	---
		2480	1.18	2479.40	2480.58	---	---
3DH1	Ant1	2402	1.19	2401.41	2402.60	---	---
		2441	1.19	2440.41	2441.60	---	---
		2480	1.19	2479.41	2480.60	---	---

Test Graphs

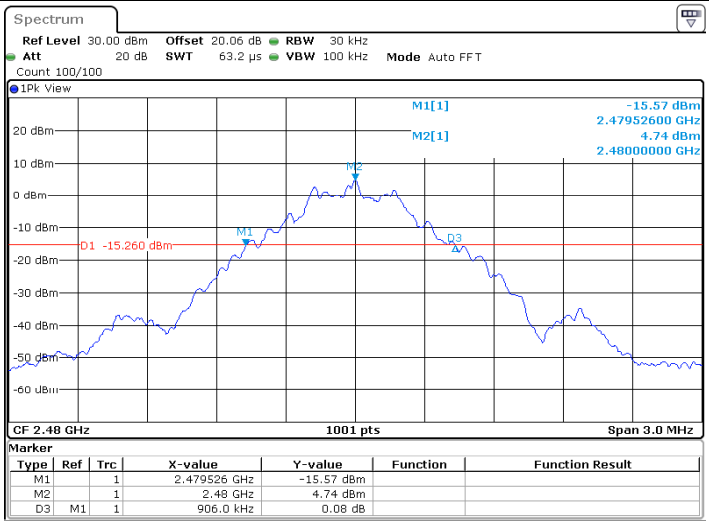
DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



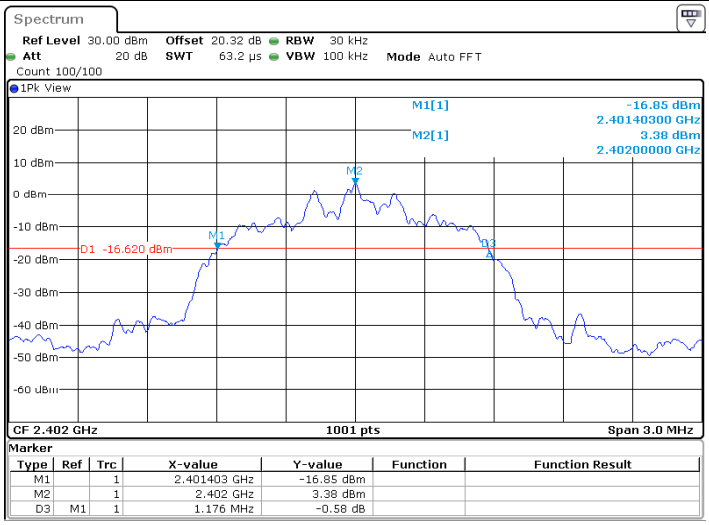
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.479526 GHz	-15.57 dBm		
M2		1	2.48 GHz	4.74 dBm		
D3	M1	1	906.0 kHz	0.08 dB		

ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:18:48

2DH1_Ant1_2402



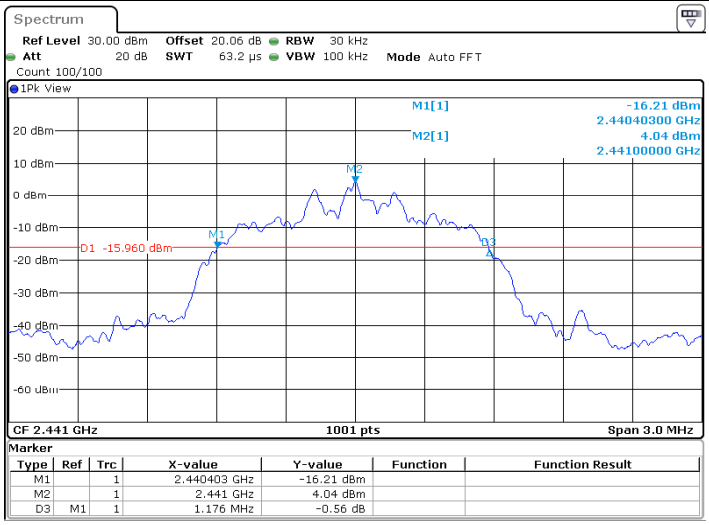
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.401403 GHz	-16.85 dBm		
M2		1	2.402 GHz	3.38 dBm		
D3	M1	1	1.176 MHz	-0.58 dB		

ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:36:19

2DH1_Ant1_2441



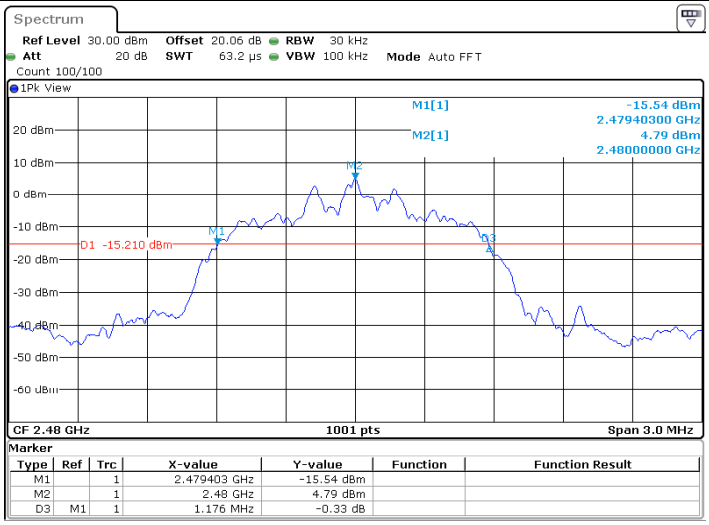
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.440403 GHz	-16.21 dBm		
M2		1	2.441 GHz	4.04 dBm		
D3	M1	1	1.176 MHz	-0.56 dB		

ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:38:36

2DH1_Ant1_2480



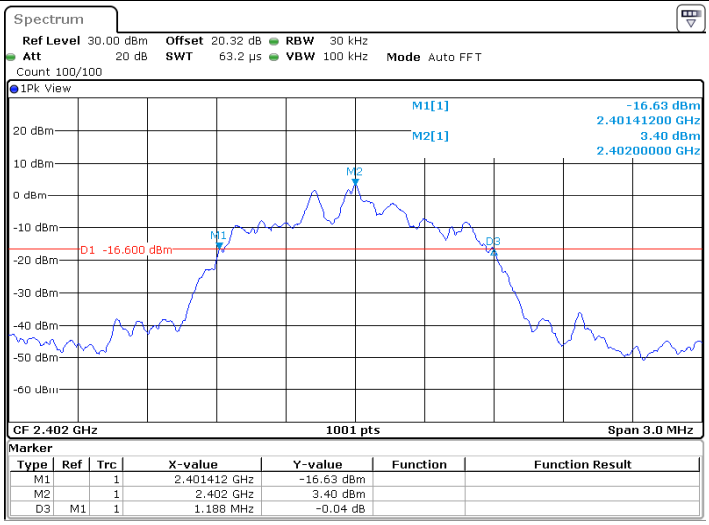
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.479403 GHz	-15.54 dBm		
M2		1	2.48 GHz	4.79 dBm		
D3	M1	1	1.176 MHz	-0.33 dB		

ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:39:36

3DH1_Ant1_2402



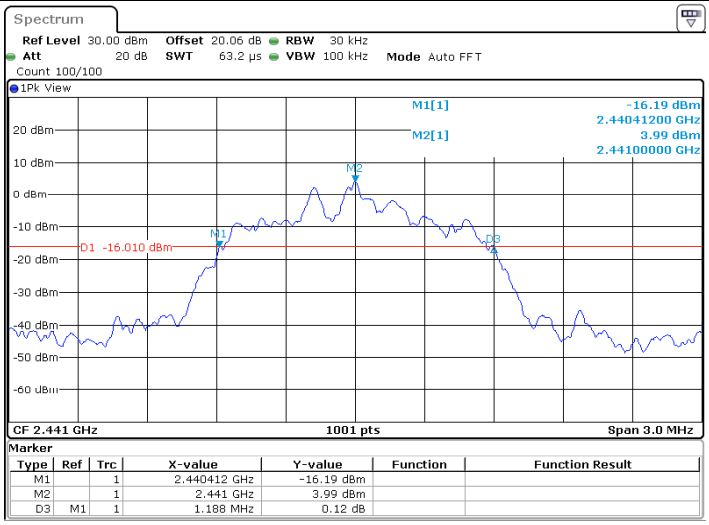
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.401412 GHz	-16.63 dBm		
M2		1	2.402 GHz	3.40 dBm		
D3	M1	1	1.188 MHz	-0.04 dB		

ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:46:22

3DH1_Ant1_2441



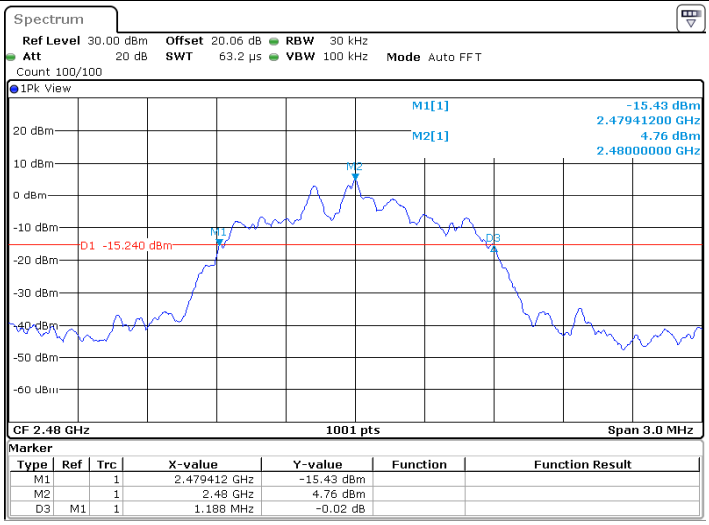
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.440412 GHz	-16.19 dBm		
M2		1	2.441 GHz	3.99 dBm		
D3	M1	1	1.188 MHz	0.12 dB		

ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:47:39

3DH1_Ant1_2480



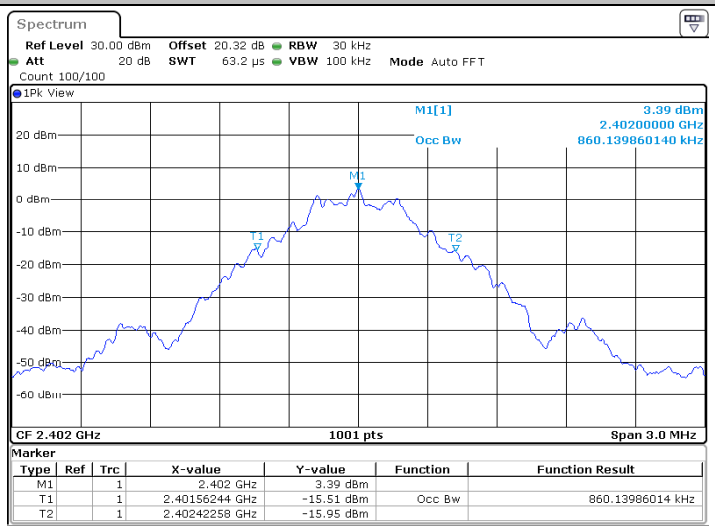
Occupied Channel Bandwidth

Test Result

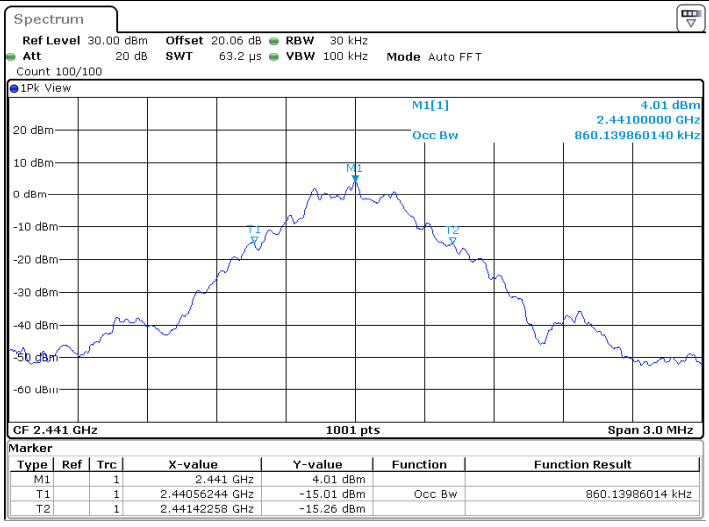
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.86	2401.5624	2402.4226	---	---
		2441	0.86	2440.5624	2441.4226	---	---
		2480	0.86	2479.5624	2480.4226	---	---
2DH1	Ant1	2402	1.106	2401.4396	2402.5455	---	---
		2441	1.109	2440.4396	2441.5485	---	---
		2480	1.106	2479.4396	2480.5455	---	---
3DH1	Ant1	2402	1.094	2401.4575	2402.5514	---	---
		2441	1.091	2440.4575	2441.5485	---	---
		2480	1.091	2479.4575	2480.5485	---	---

Test Graphs

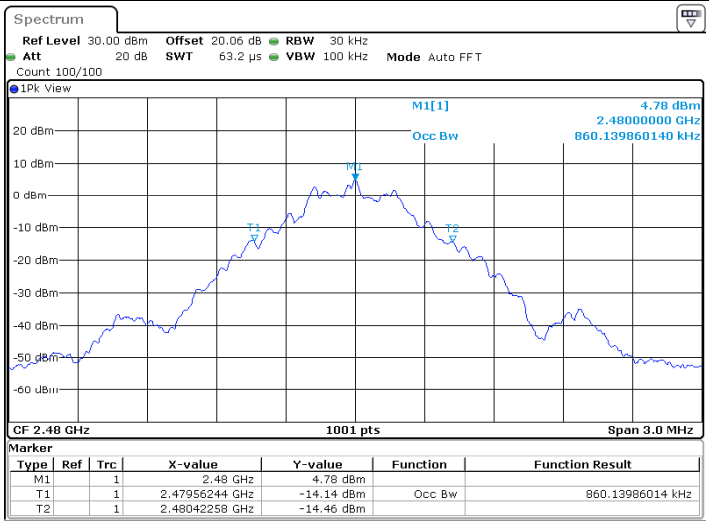
DH1_Ant1_2402



DH1_Ant1_2441



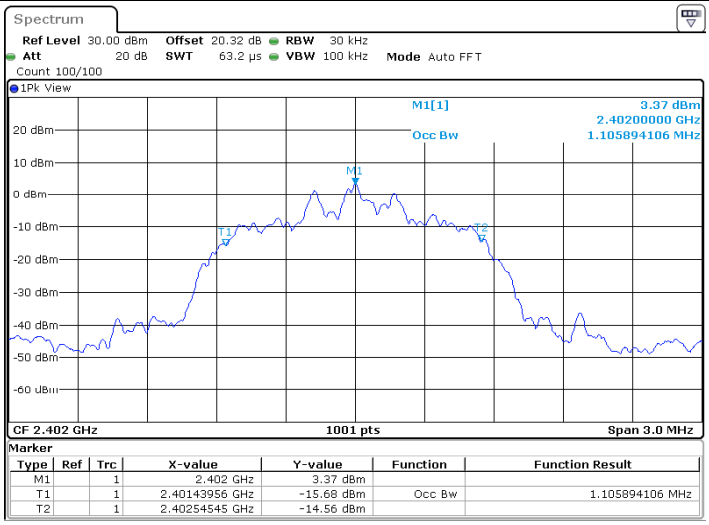
DH1_Ant1_2480



ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:33:16

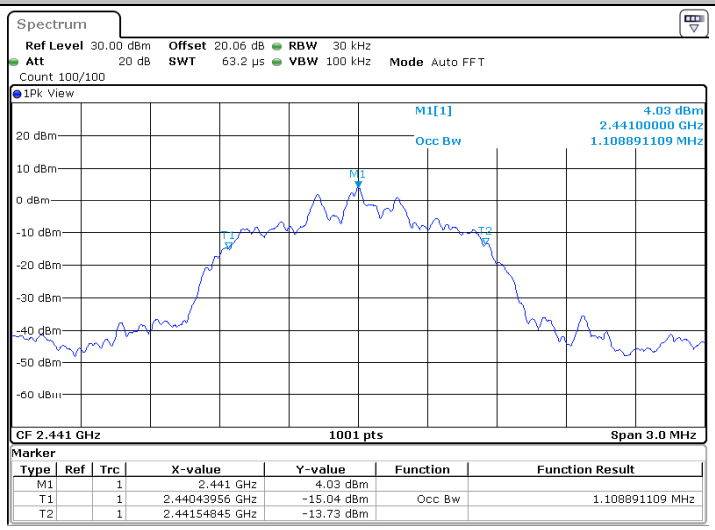
2DH1_Ant1_2402



ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:36:25

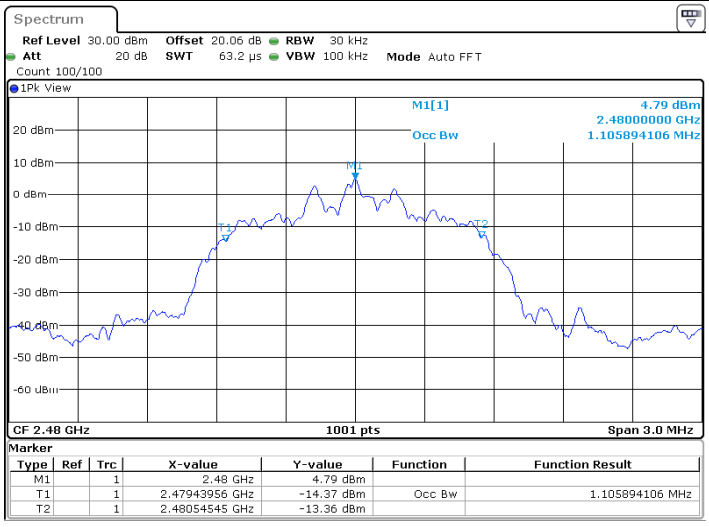
2DH1_Ant1_2441



ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:38:42

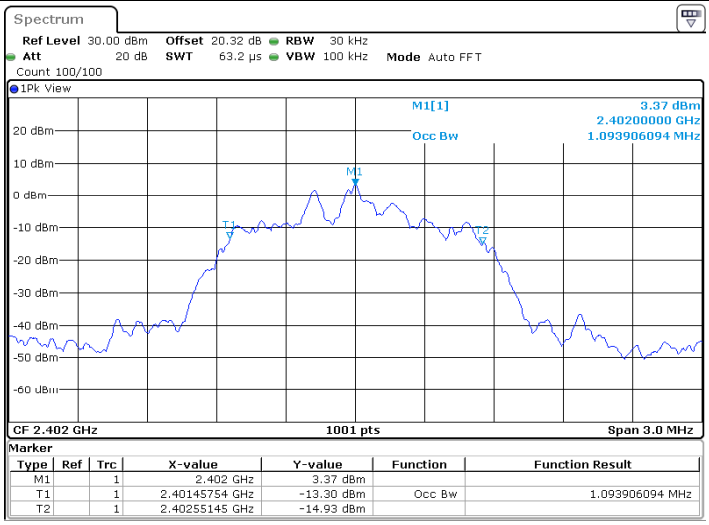
2DH1_Ant1_2480



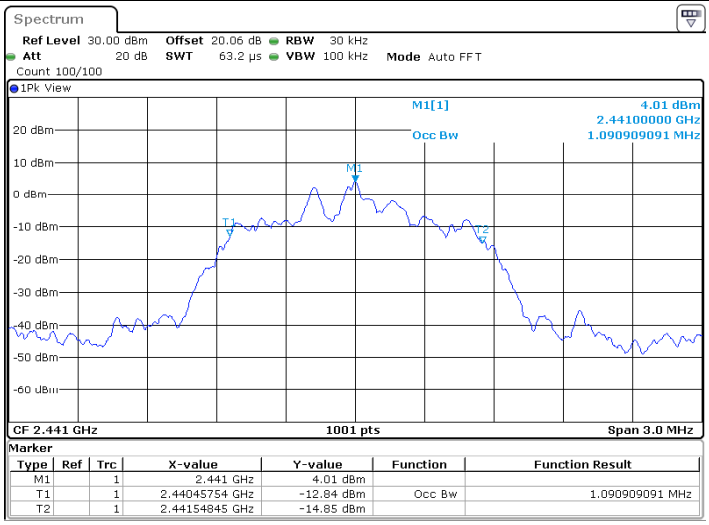
ProjectNo.:2501S16535E-RFTester:Warm.Xu

Date: 28.APR.2025 23:39:42

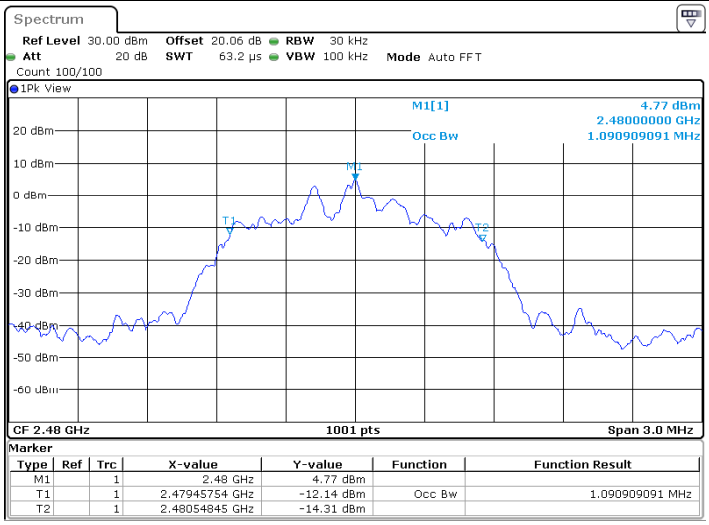
3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



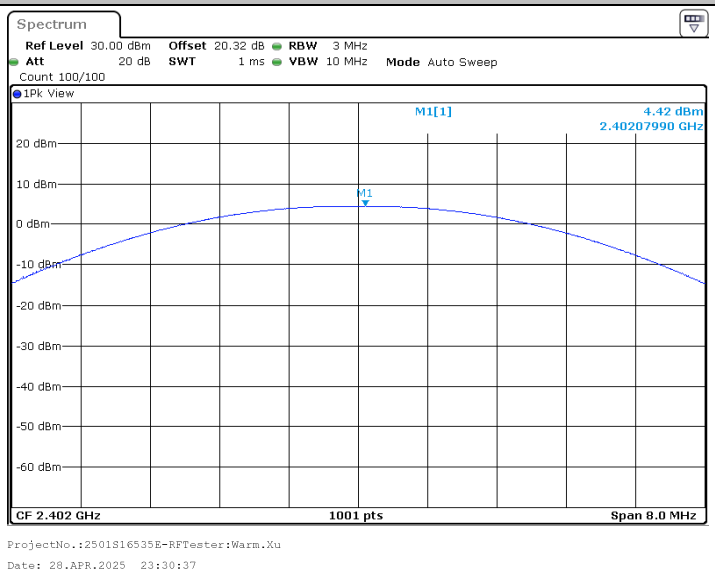
Maximum conducted output power

Test Result Peak

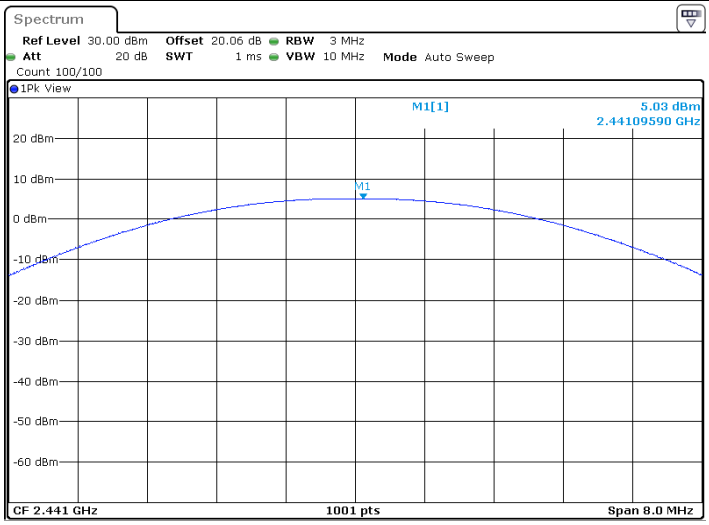
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	4.42	≤20.97	PASS
		2441	5.03	≤20.97	PASS
		2480	5.81	≤20.97	PASS
2DH1	Ant1	2402	4.35	≤20.97	PASS
		2441	5.03	≤20.97	PASS
		2480	5.82	≤20.97	PASS
3DH1	Ant1	2402	4.39	≤20.97	PASS
		2441	5.03	≤20.97	PASS
		2480	5.80	≤20.97	PASS

Test Graphs

DH1_Ant1_2402

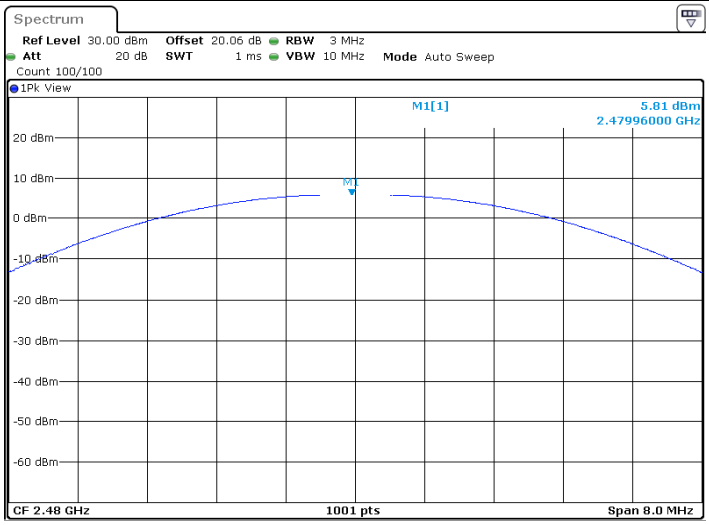


DH1_Ant1_2441

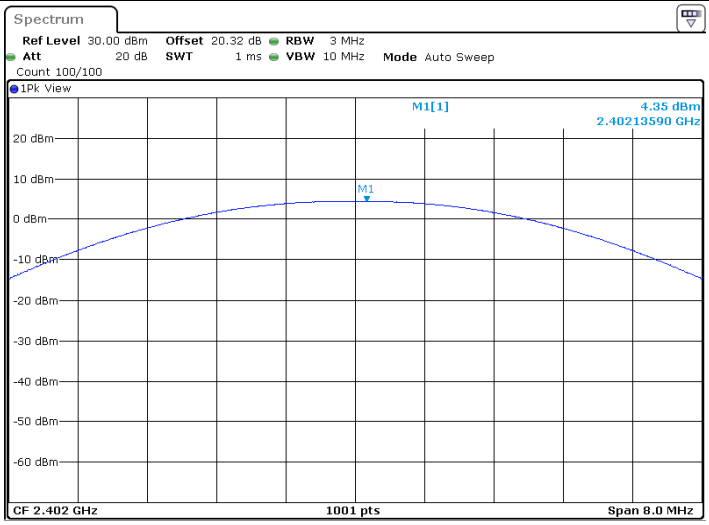


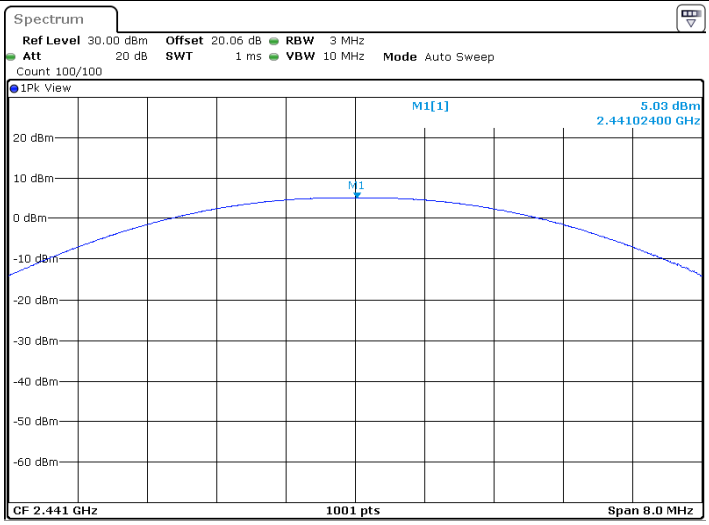
ProjectNo.:2501S16535E-RFTester:Warm.Xu
Date: 28.APR.2025 23:32:01

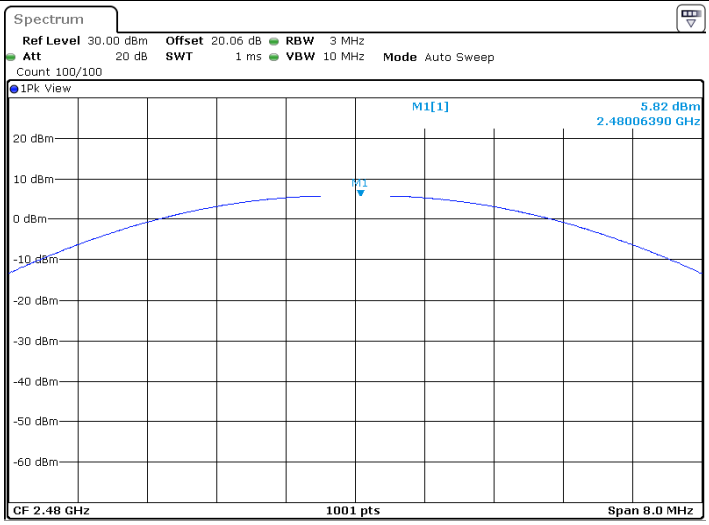
DH1_Ant1_2480

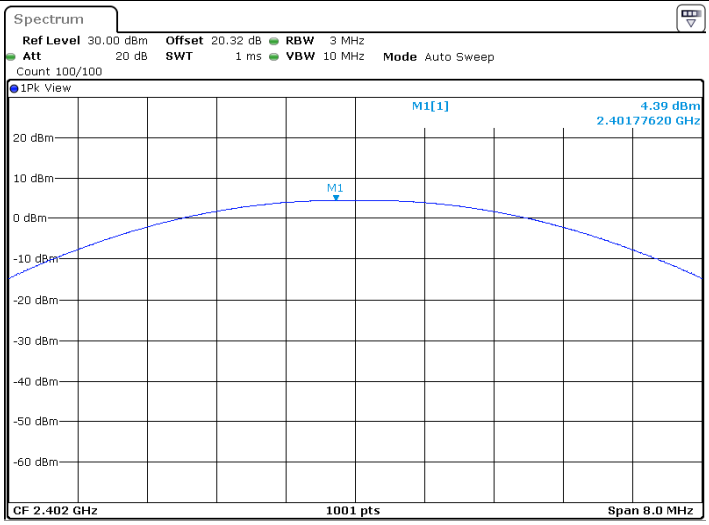


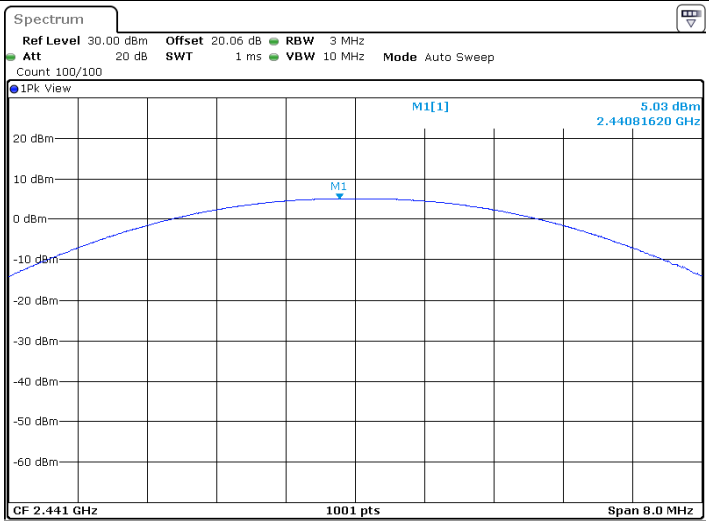
ProjectNo.:2501S16535E-RFTester:Warm.Xu
Date: 28.APR.2025 23:33:32

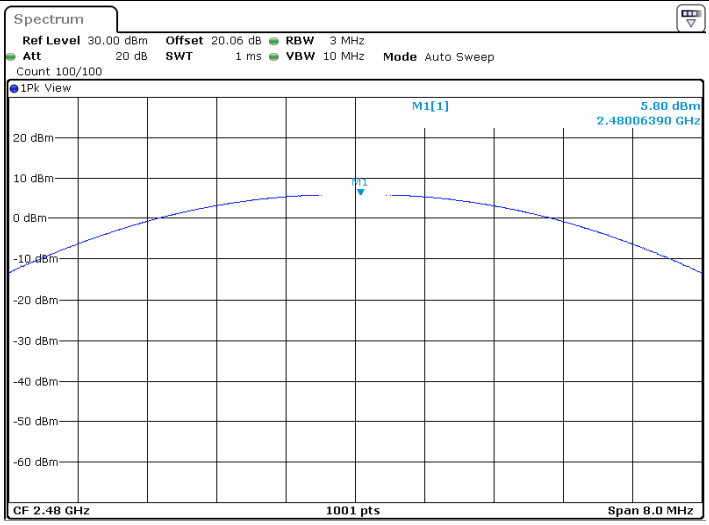
2DH1_Ant1_2402


2DH1_Ant1_2441


2DH1_Ant1_2480


3DH1_Ant1_2402


3DH1_Ant1_2441


3DH1_Ant1_2480


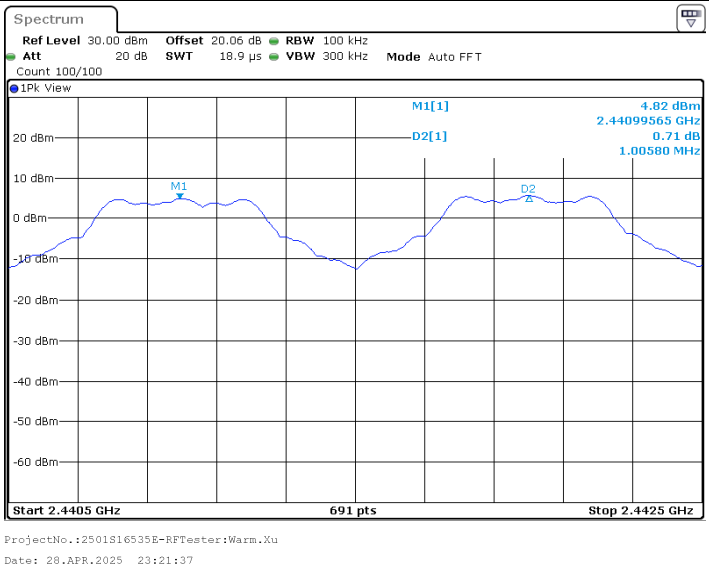
Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	1.006	≥0.793	PASS
Note: Only the BDR (GFSK) mode result is reported since EDR (π/4-DQPSK) and EDR (8DPSK) modes have the exact same channel plan, and the limit is the maximum 20dB bandwidth *2/3					

Test Graphs

DH1_Ant1_Hop



Time of occupancy

Test Result

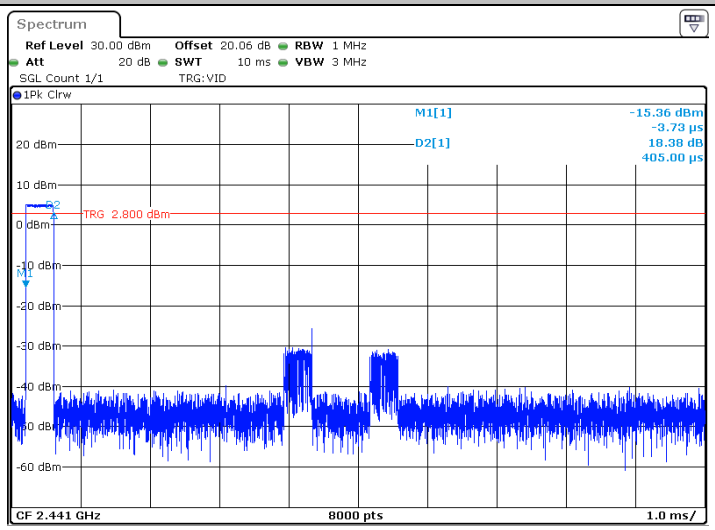
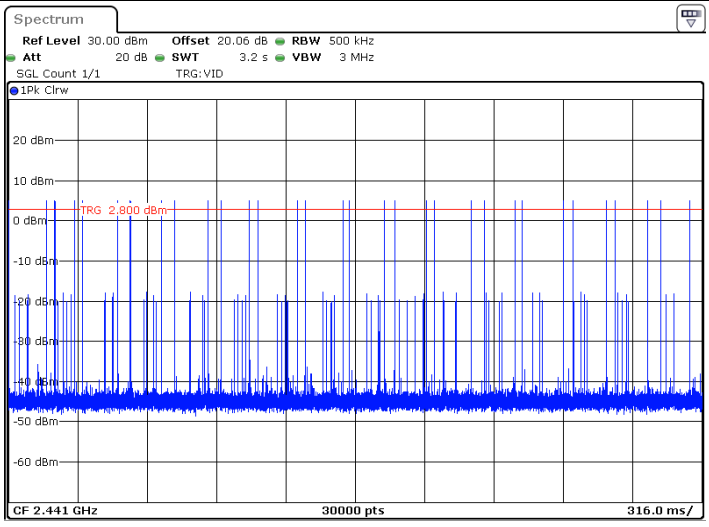
Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.405	320	0.130	≤0.4	PASS
DH3	Ant1	Hop	1.653	170	0.281	≤0.4	PASS
DH5	Ant1	Hop	2.893	120	0.347	≤0.4	PASS
2DH1	Ant1	Hop	0.414	320	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.658	180	0.298	≤0.4	PASS
2DH5	Ant1	Hop	2.899	110	0.319	≤0.4	PASS
3DH1	Ant1	Hop	0.414	320	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.656	170	0.282	≤0.4	PASS
3DH5	Ant1	Hop	2.900	110	0.319	≤0.4	PASS

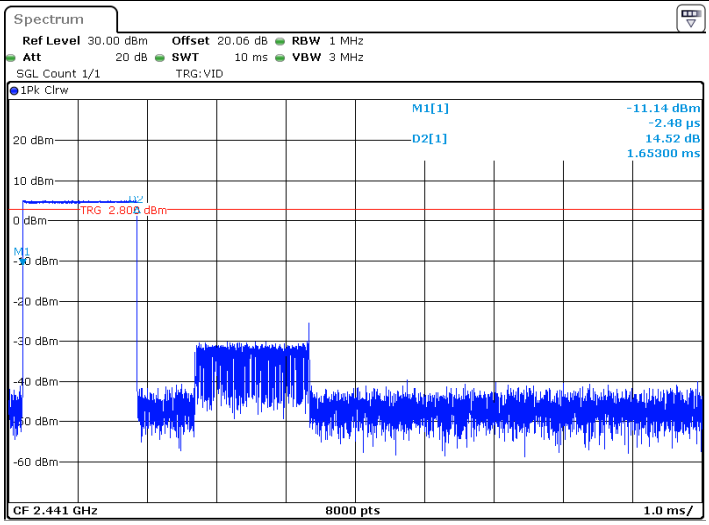
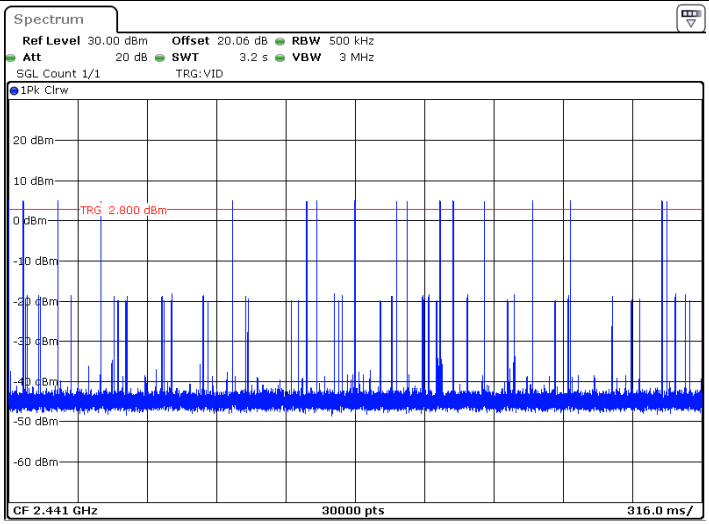
Note 1: A period time=0.4*79=31.6(S), Result=Burst Width*Total hops

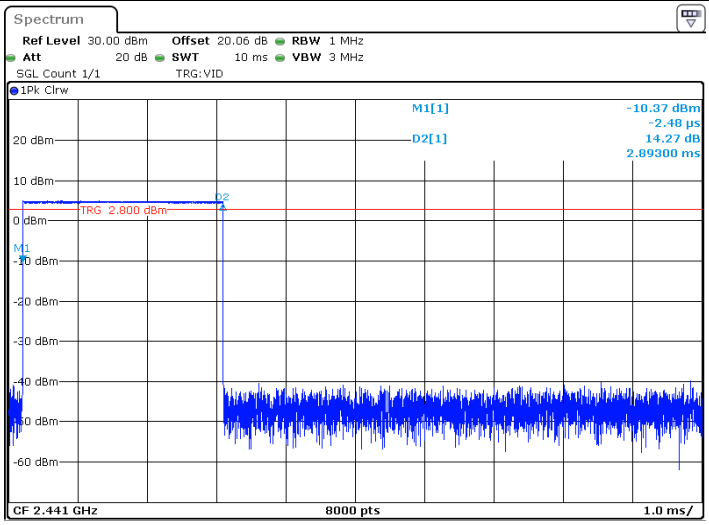
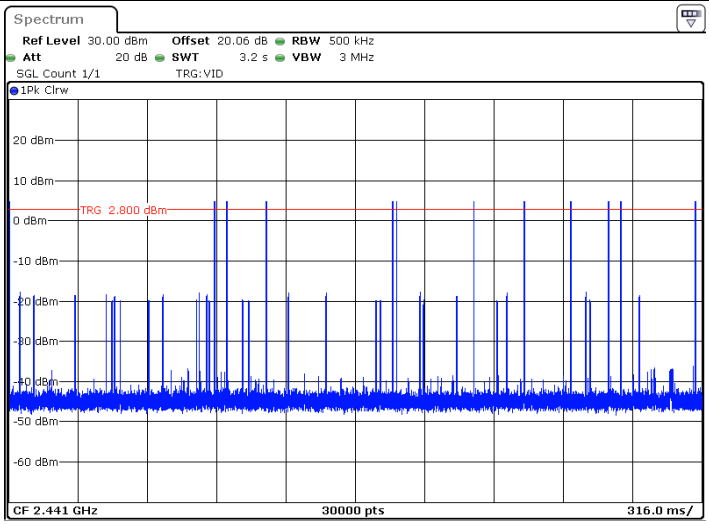
Note 2: Total hops=Hopping Number in 3.16s*10

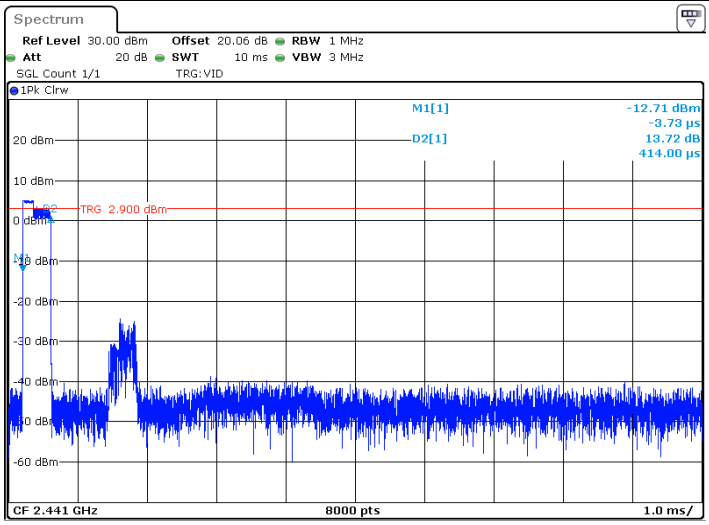
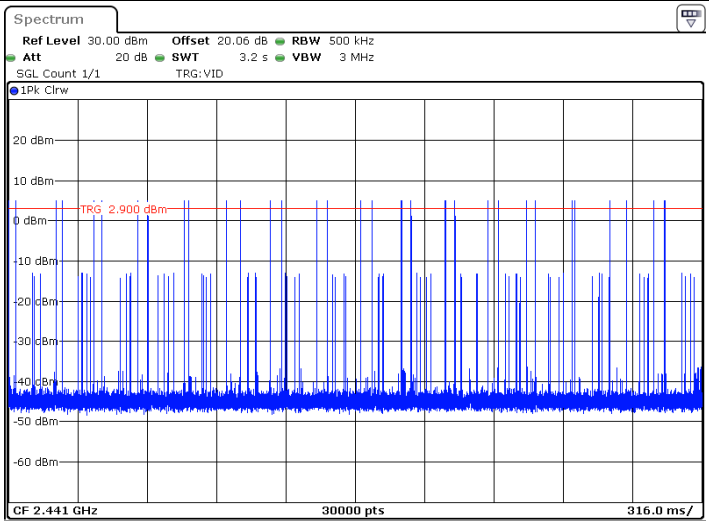
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channe

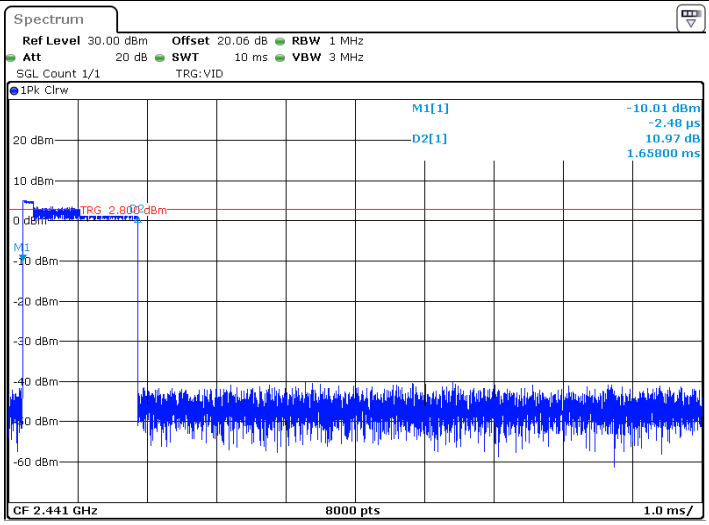
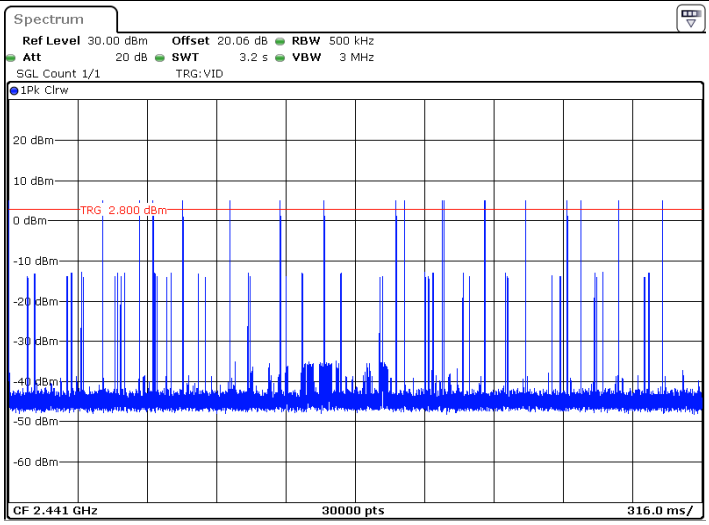
Test Graphs

DH1_Ant1_Hop



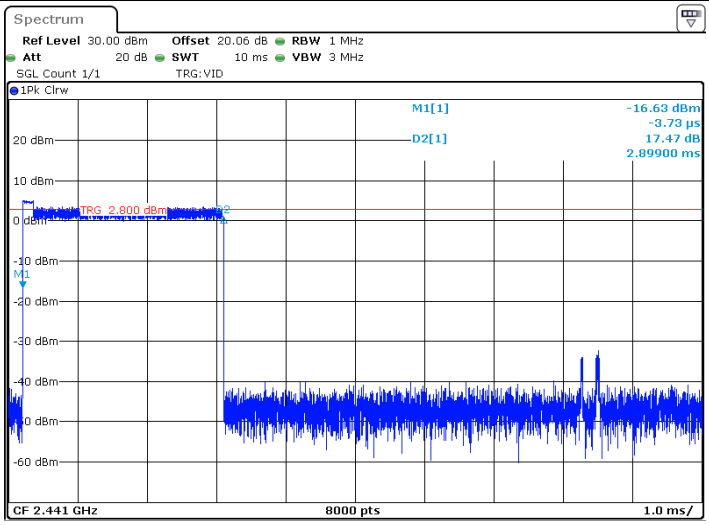
DH3_Ant1_Hop
 Spectrum Ref Level 30.00 dBm Offset 20.06 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz SGL Count 1/1 TRG:VID 1Pk Clrw M1[1] -11.14 dBm -2.48 µs D2[1] 14.52 dB 1.65300 ms TRG 2.800 dBm CF 2.441 GHz 8000 pts 1.0 ms/ ProjectNo.:2501S16535E-RFTester:Warm.Xu Date: 28.APR.2025 23:26:13
 Spectrum Ref Level 30.00 dBm Offset 20.06 dB RBW 500 kHz Att 20 dB SWT 3.2 s VBW 3 MHz SGL Count 1/1 TRG:VID 1Pk Clrw TRG 2.800 dBm CF 2.441 GHz 30000 pts 316.0 ms/ ProjectNo.:2501S16535E-RFTester:Warm.Xu Date: 28.APR.2025 23:26:20

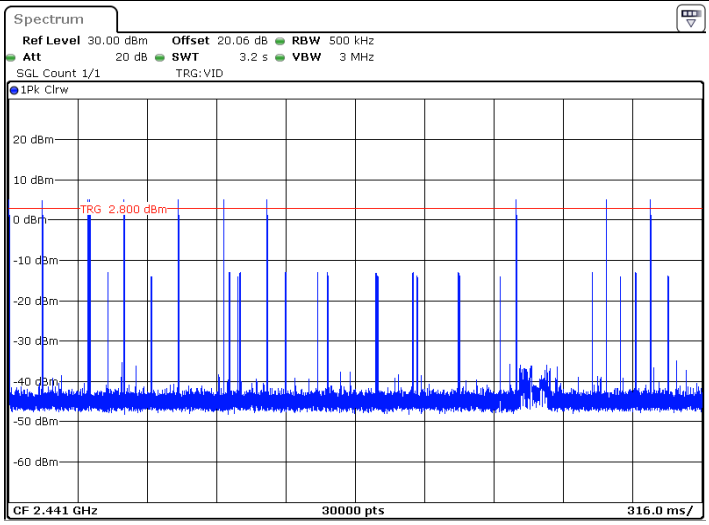
DH5_Ant1_Hop
 Spectrum Ref Level 30.00 dBm Offset 20.06 dB RBW 1 MHz Att 20 dB SWT 10 ms VBW 3 MHz SGL Count 1/1 TRG:VID 1Pk Clrw M1[1] -10.37 dBm -2.48 µs D2[1] 14.27 dB 2.89300 ms TRG 2.800 dBm CF 2.441 GHz 8000 pts 1.0 ms/ ProjectNo.:2501S16535E-RFTester:Warm.Xu Date: 28.APR.2025 23:28:50
 Spectrum Ref Level 30.00 dBm Offset 20.06 dB RBW 500 kHz Att 20 dB SWT 3.2 s VBW 3 MHz SGL Count 1/1 TRG:VID 1Pk Clrw TRG 2.800 dBm CF 2.441 GHz 30000 pts 316.0 ms/ ProjectNo.:2501S16535E-RFTester:Warm.Xu Date: 28.APR.2025 23:28:55

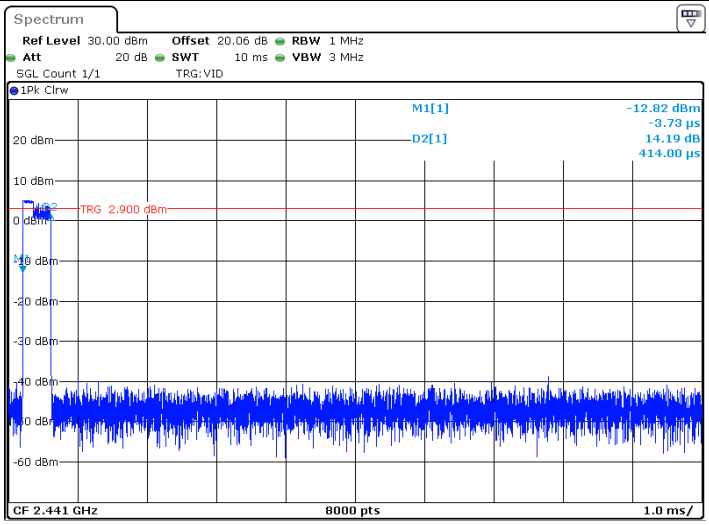
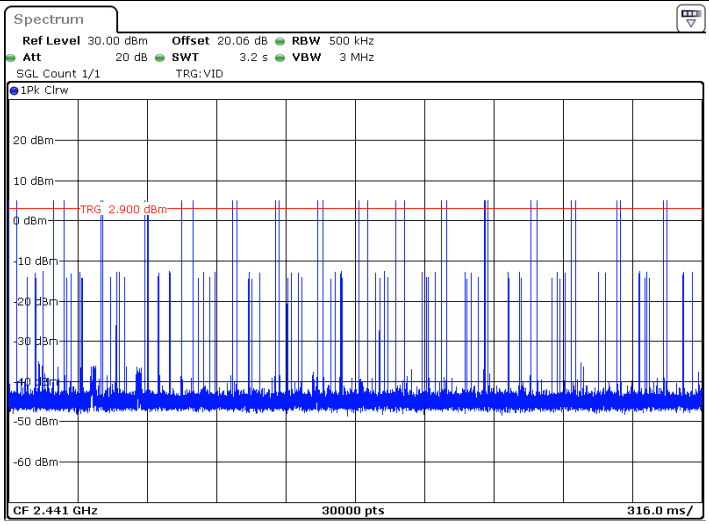
2DH1_Ant1_Hop



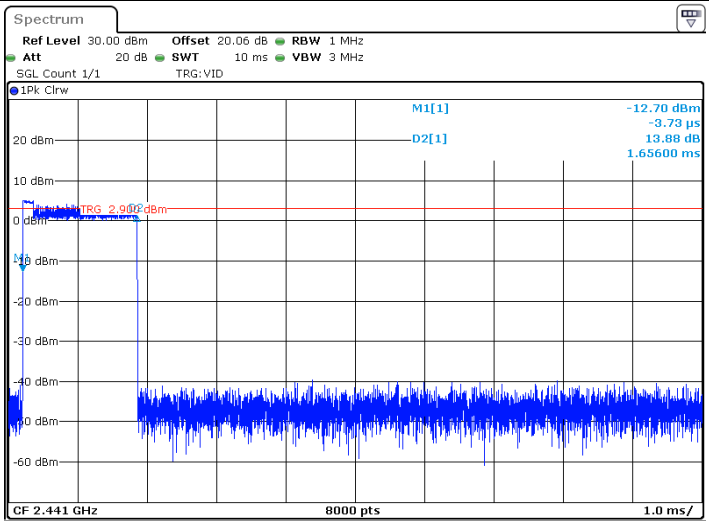
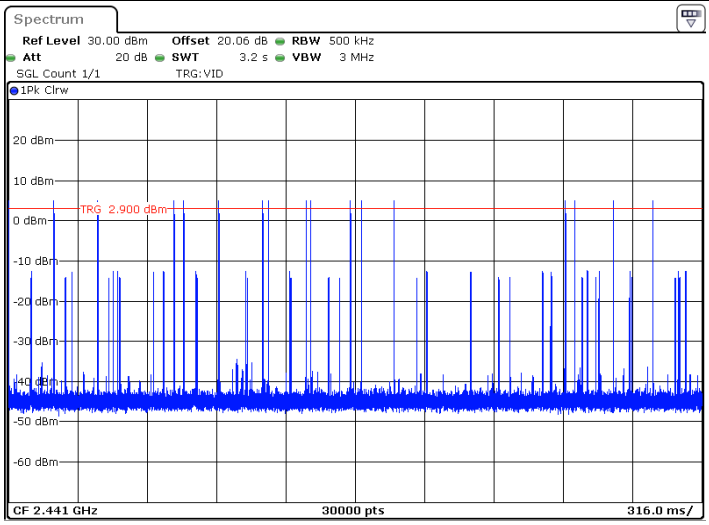
2DH3_Ant1_Hop



2DH5_Ant1_Hop





3DH1_Ant1_Hop



3DH3_Ant1_Hop



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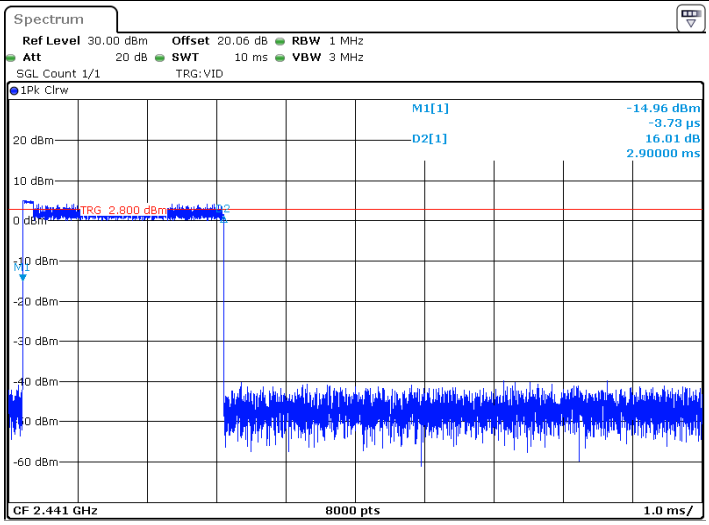
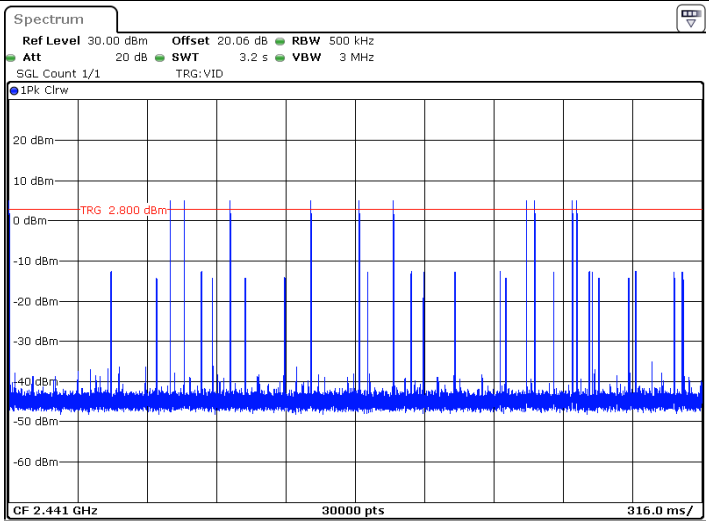



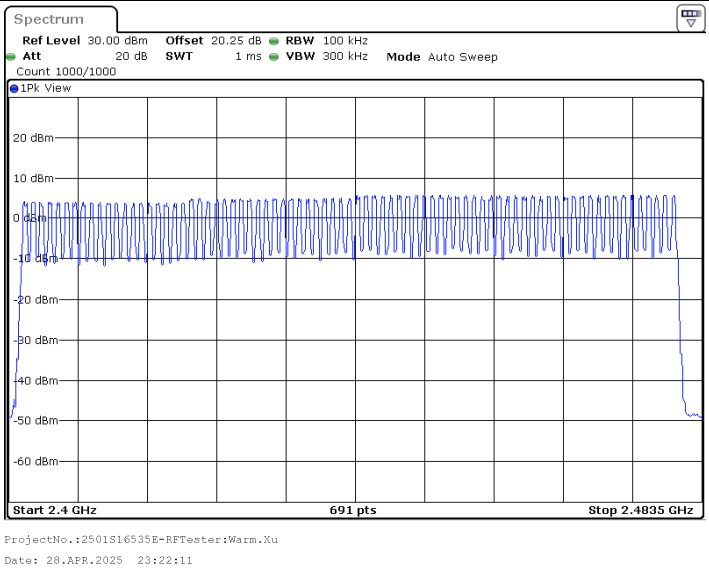
Number of hopping channels

Test Result

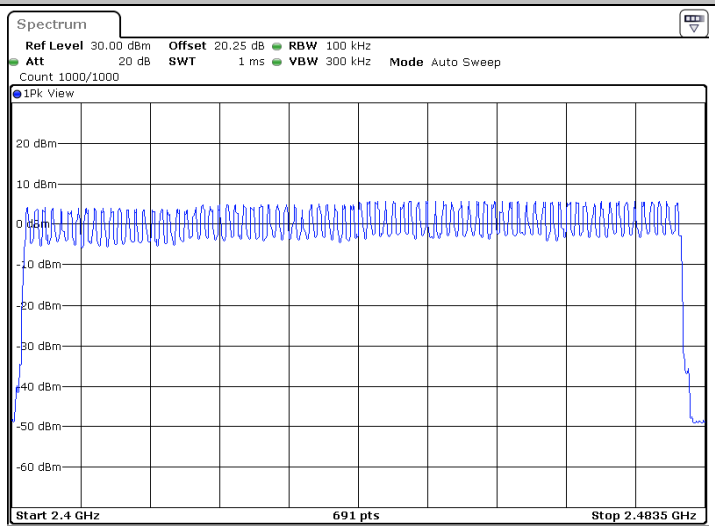
Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

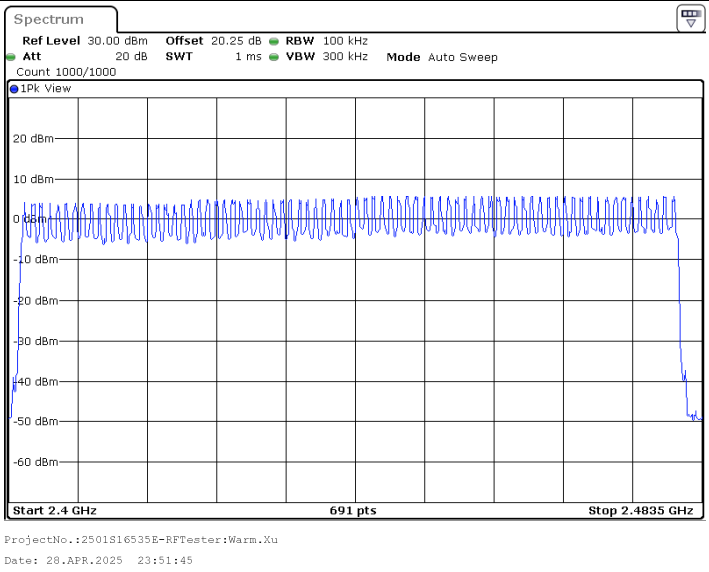
Test Graphs

DH1_Ant1_Hop



2DH1_Ant1_Hop

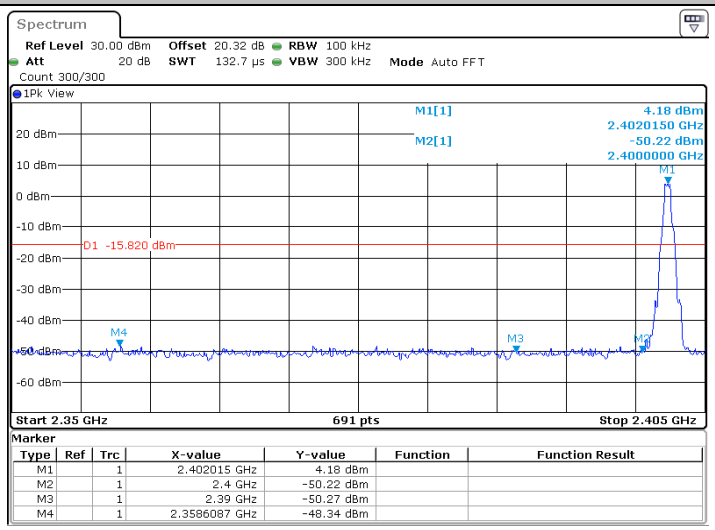


3DH1_Ant1_Hop


Band edge measurements

Test Graphs

DH1_Ant1_Low_2402

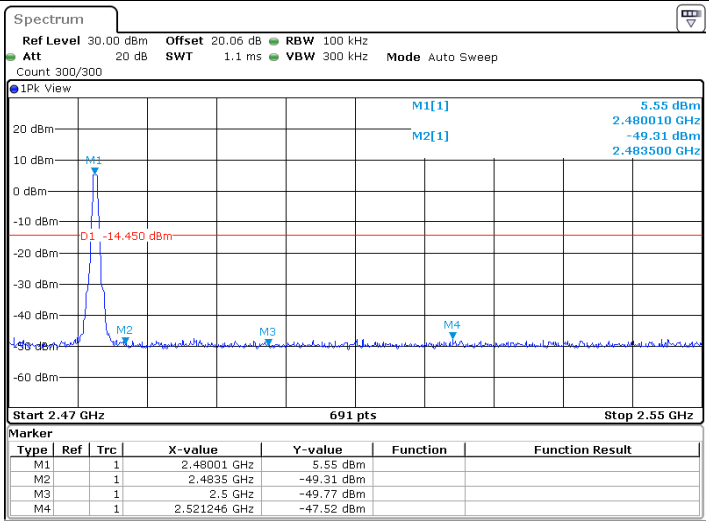


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402015 GHz	4.18 dBm		
M2		1	2.4 GHz	-50.22 dBm		
M3		1	2.39 GHz	-50.27 dBm		
M4		1	2.3586087 GHz	-48.34 dBm		

ProjectNo.:2501S16535E-RFTester:Warm.Xu
Date: 28.APR.2025 23:30:30

DH1_Ant1_High_2480

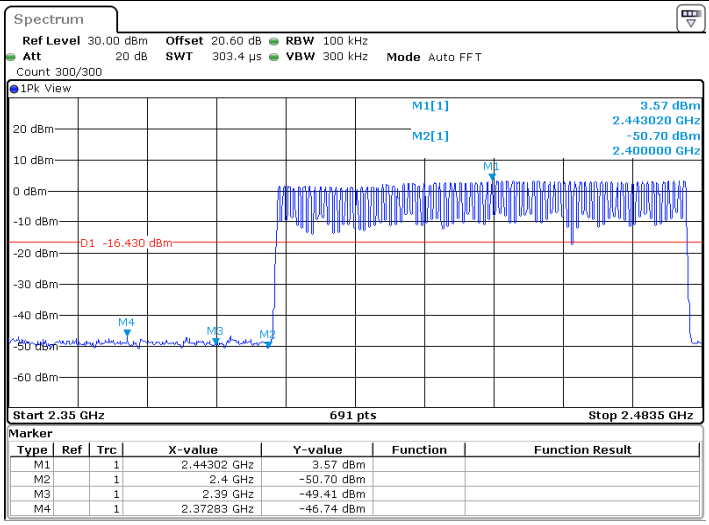


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48001 GHz	5.55 dBm		
M2		1	2.4835 GHz	-49.31 dBm		
M3		1	2.5 GHz	-49.77 dBm		
M4		1	2.521246 GHz	-47.52 dBm		

ProjectNo.:2501S16535E-RFTester:Warm.Xu
Date: 28.APR.2025 23:33:25

DH1_Ant1_Low_Hop_2402



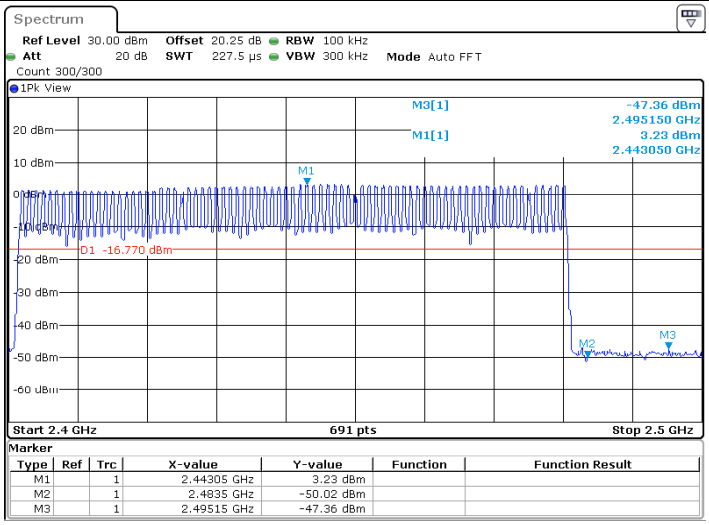
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44302 GHz	3.57 dBm		
M2		1	2.4 GHz	-50.70 dBm		
M3		1	2.39 GHz	-49.41 dBm		
M4		1	2.37283 GHz	-46.74 dBm		

ProjectNo.:2501S16535E-RF Tester:Warm.Xu

Date: 29.MAY.2025 20:52:31

DH1_Ant1_High_Hop_2480



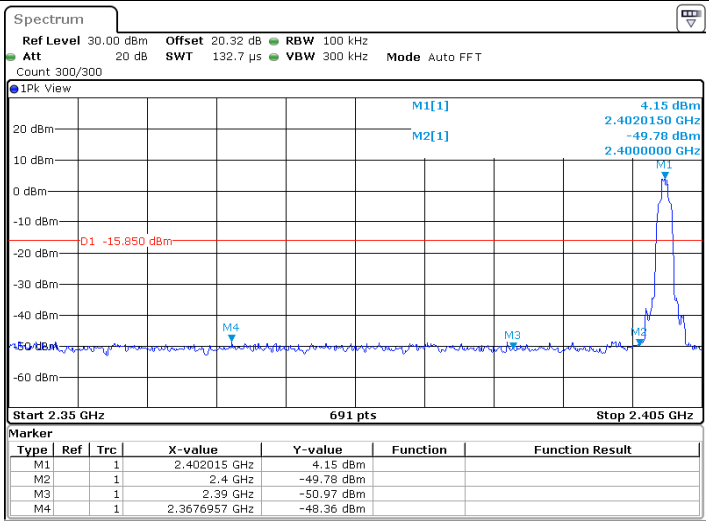
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44305 GHz	3.23 dBm		
M2		1	2.4835 GHz	-50.02 dBm		
M3		1	2.49515 GHz	-47.36 dBm		

ProjectNo.:2501S16535E-RF Tester:Warm.Xu

Date: 29.MAY.2025 20:49:31

2DH1_Ant1_Low_2402

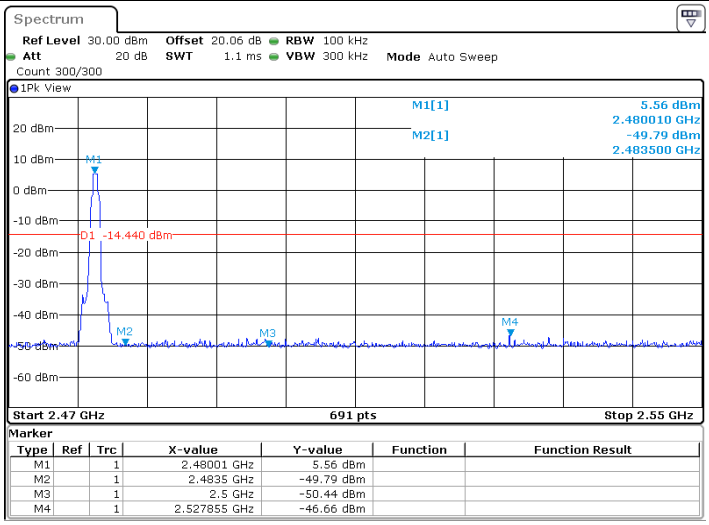


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402015 GHz	4.15 dBm		
M2		1	2.4 GHz	-49.78 dBm		
M3		1	2.39 GHz	-50.97 dBm		
M4		1	2.3676957 GHz	-48.36 dBm		

ProjectNo.:2501S16535E-RFTester:Warm.Xu
Date: 28.APR.2025 23:36:34

2DH1_Ant1_High_2480

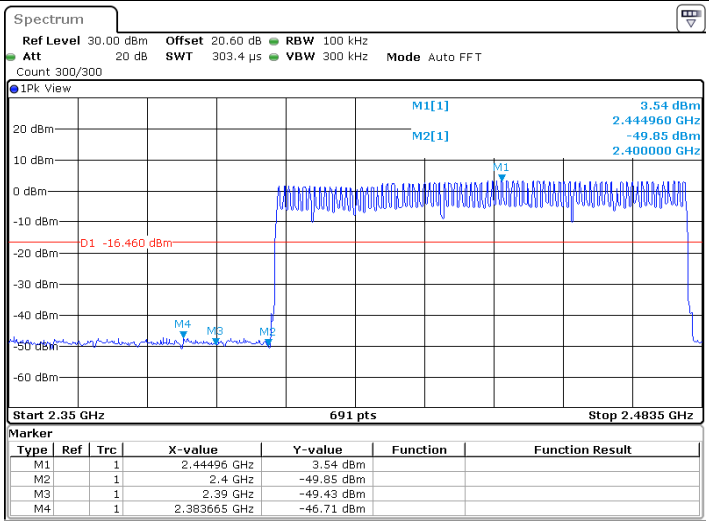


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48001 GHz	5.56 dBm		
M2		1	2.4835 GHz	-49.79 dBm		
M3		1	2.5 GHz	-50.44 dBm		
M4		1	2.527855 GHz	-46.66 dBm		

ProjectNo.:2501S16535E-RFTester:Warm.Xu
Date: 28.APR.2025 23:39:51

2DH1_Ant1_Low_Hop_2402



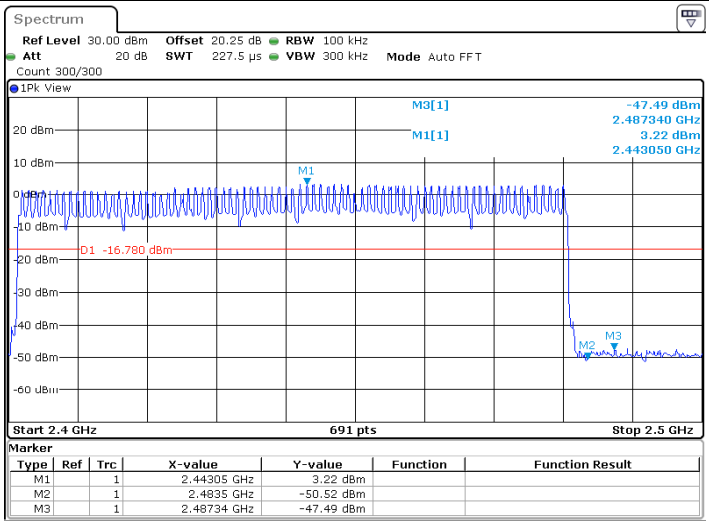
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44496 GHz	3.54 dBm		
M2		1	2.4 GHz	-49.85 dBm		
M3		1	2.39 GHz	-49.43 dBm		
M4		1	2.383665 GHz	-46.71 dBm		

ProjectNo.:2501S16535E-RF Tester:Warm.Xu

Date: 29.MAY.2025 20:59:02

2DH1_Ant1_High_Hop_2480



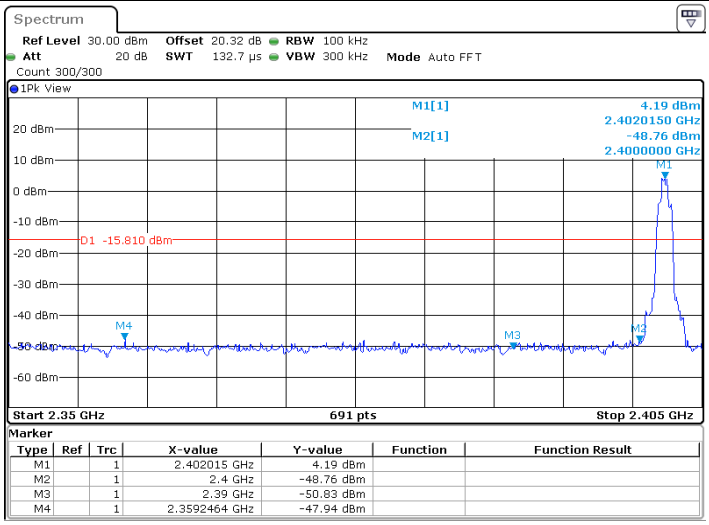
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44305 GHz	3.22 dBm		
M2		1	2.4835 GHz	-50.52 dBm		
M3		1	2.48734 GHz	-47.49 dBm		

ProjectNo.:2501S16535E-RF Tester:Warm.Xu

Date: 29.MAY.2025 21:04:20

3DH1_Ant1_Low_2402

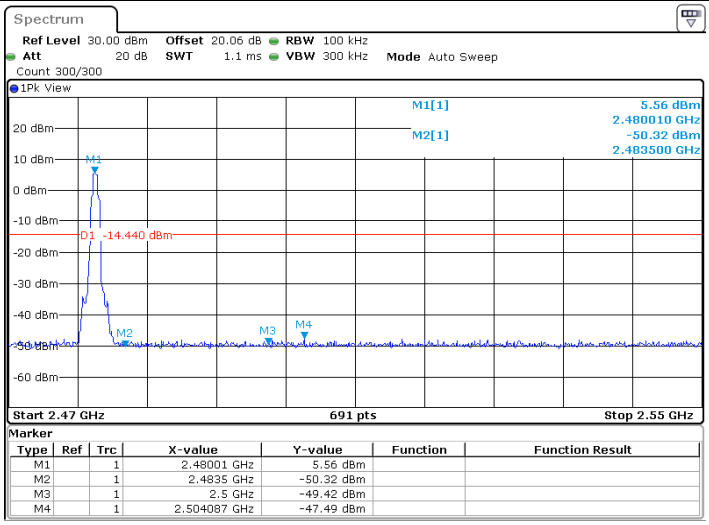


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.402015 GHz	4.19 dBm		
M2		1	2.4 GHz	-48.76 dBm		
M3		1	2.39 GHz	-50.83 dBm		
M4		1	2.3592464 GHz	-47.94 dBm		

ProjectNo.:2501S16535E-RFTester:Warm.Xu
Date: 28.APR.2025 23:46:38

3DH1_Ant1_High_2480

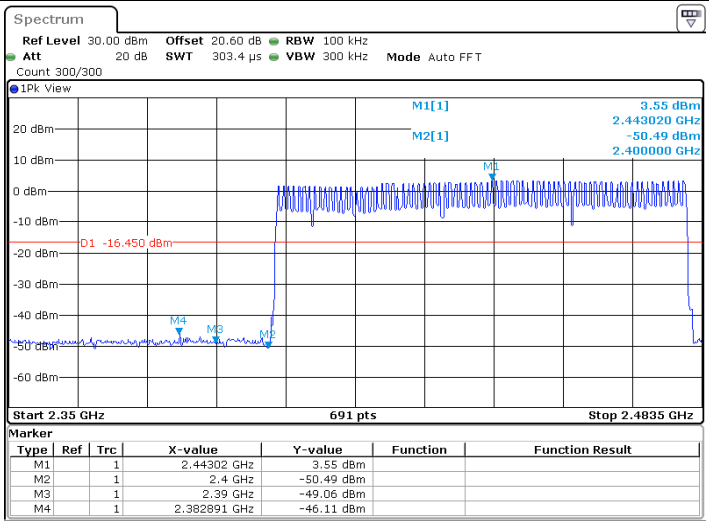


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48001 GHz	5.56 dBm		
M2		1	2.4835 GHz	-50.32 dBm		
M3		1	2.5 GHz	-49.42 dBm		
M4		1	2.504087 GHz	-47.49 dBm		

ProjectNo.:2501S16535E-RFTester:Warm.Xu
Date: 28.APR.2025 23:49:04

3DH1_Ant1_Low_Hop_2402



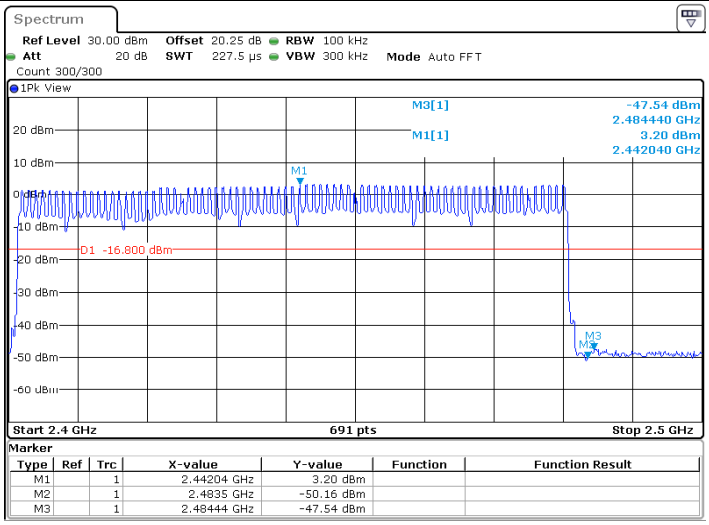
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44302 GHz	3.55 dBm		
M2		1	2.4 GHz	-50.49 dBm		
M3		1	2.39 GHz	-49.06 dBm		
M4		1	2.382891 GHz	-46.11 dBm		

ProjectNo.:2501S16535E-RF Tester:Warm.Xu

Date: 29.MAY.2025 21:08:34

3DH1_Ant1_High_Hop_2480



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44204 GHz	3.20 dBm		
M2		1	2.4835 GHz	-50.16 dBm		
M3		1	2.48444 GHz	-47.54 dBm		

ProjectNo.:2501S16535E-RF Tester:Warm.Xu

Date: 29.MAY.2025 21:13:14