

APPENDIX A

BT(ANT9):

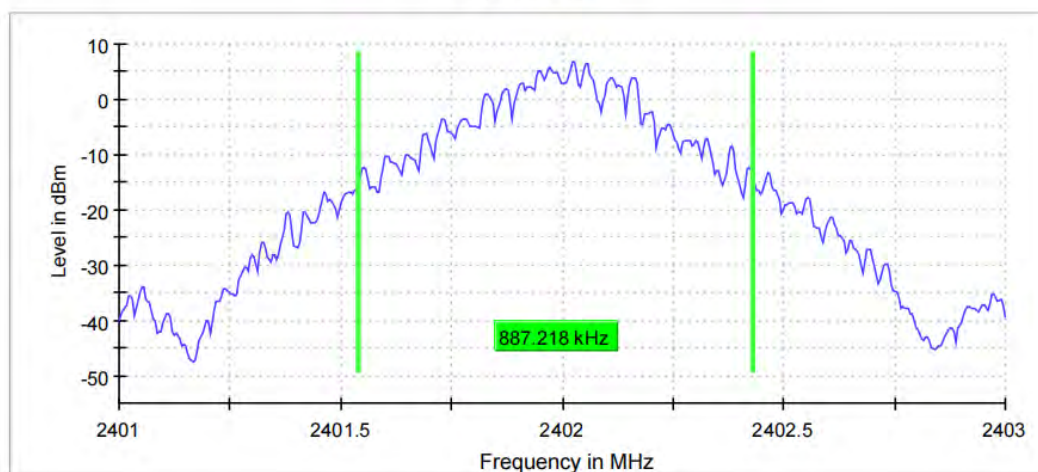
20DB EMISSION BANDWIDTH TEST RESULT

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant9	2402	0.887	2401.541	2402.429	---	PASS
		2441	0.887	2440.541	2441.429	---	PASS
		2480	0.887	2479.541	2480.429	---	PASS
2DH5	Ant9	2402	1.228	2401.391	2402.619	---	PASS
		2441	1.233	2440.386	2441.619	---	PASS
		2480	1.233	2479.386	2480.619	---	PASS
3DH5	Ant9	2402	1.258	2401.361	2402.619	---	PASS
		2441	1.258	2440.361	2441.619	---	PASS
		2480	1.258	2479.361	2480.619	---	PASS

TEST GRAPHS

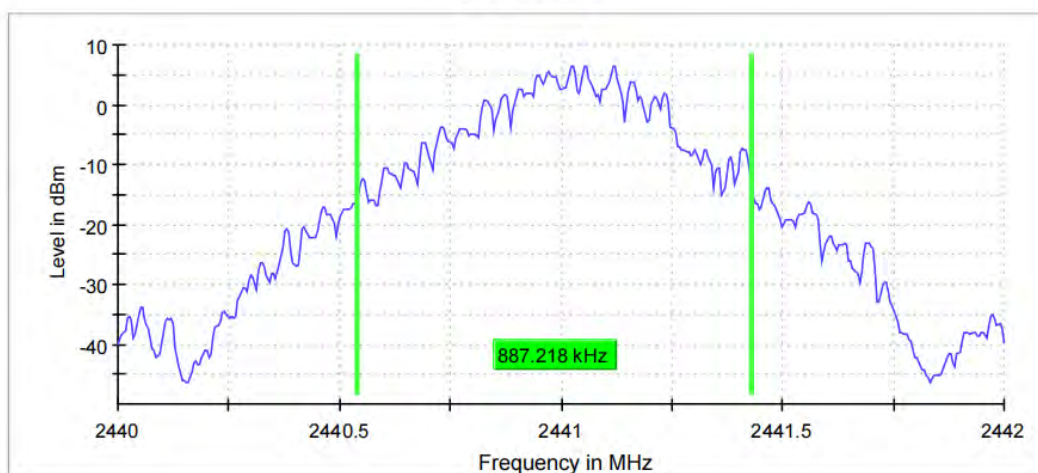
DH5_Ant9_2402

20 dB Bandwidth



DH5_Ant9_2441

20 dB Bandwidth



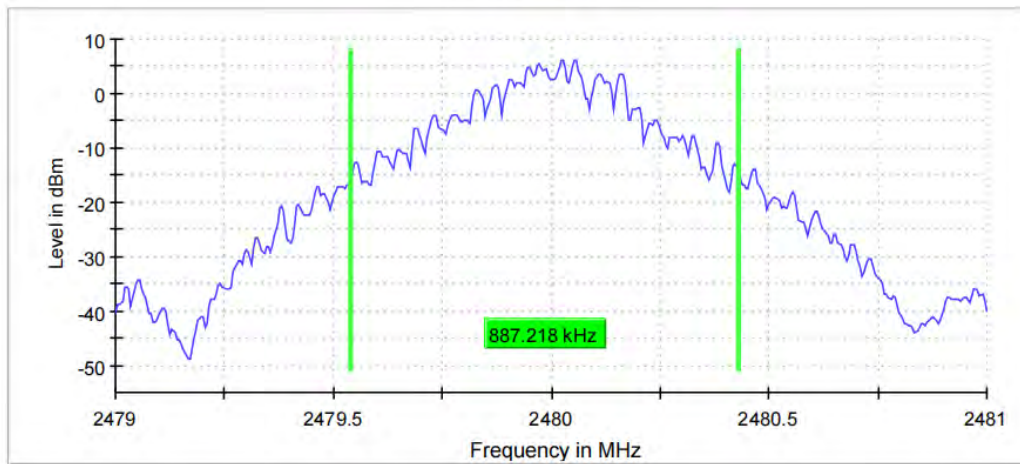
DH5_Ant9_2480



BUREAU
VERITAS

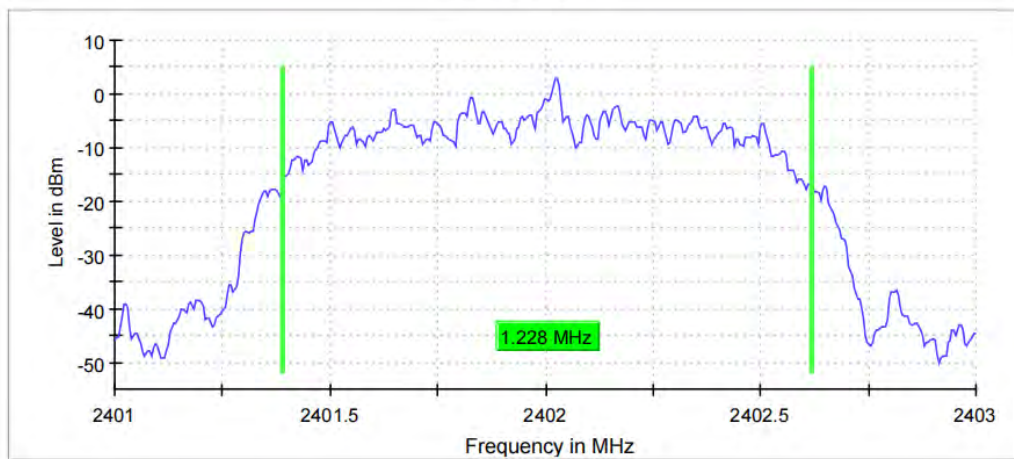
Reference No.: PSU-NQN2403180115RF01

20 dB Bandwidth



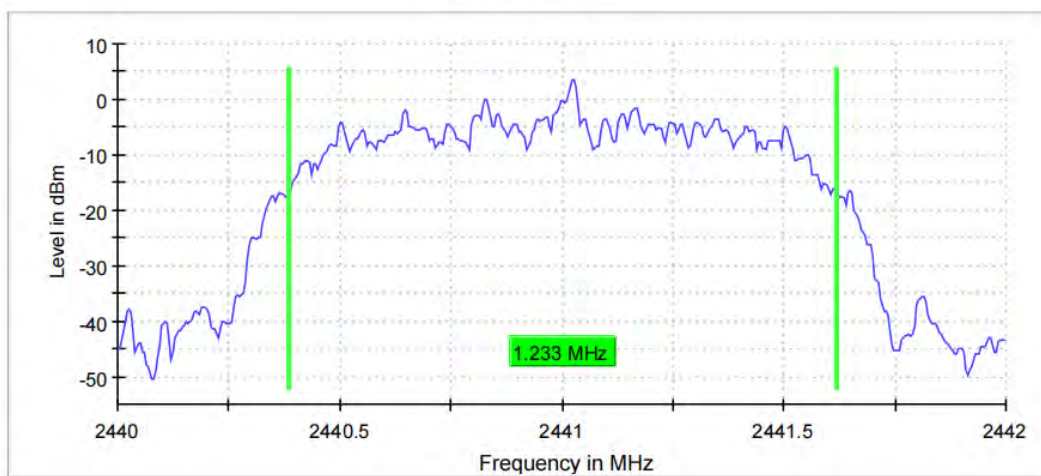
2DH5_Ant9_2402

20 dB Bandwidth



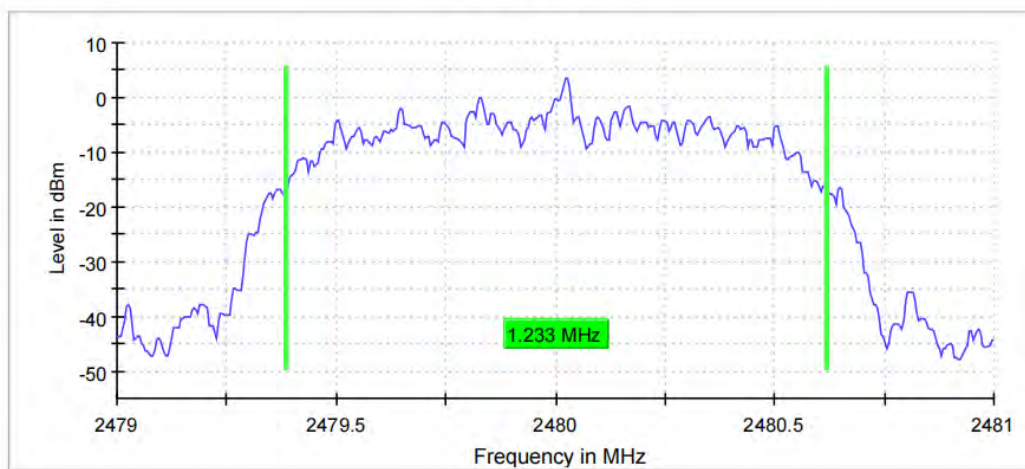
2DH5_Ant9_2441

20 dB Bandwidth



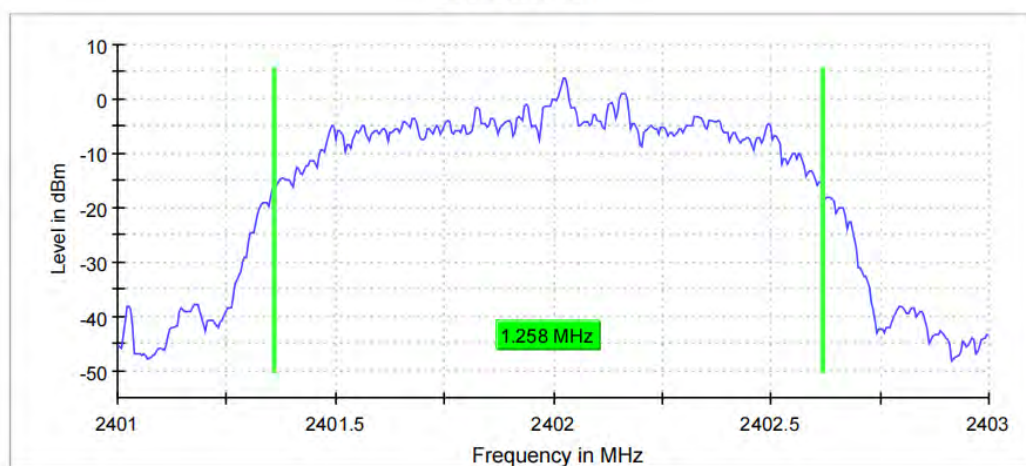
2DH5_Ant9_2480

20 dB Bandwidth



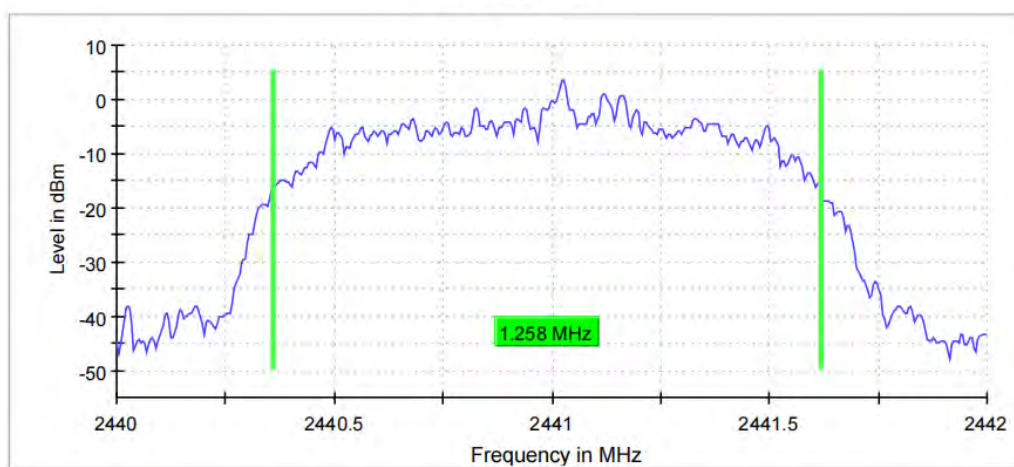
3DH5_Ant9_2402

20 dB Bandwidth

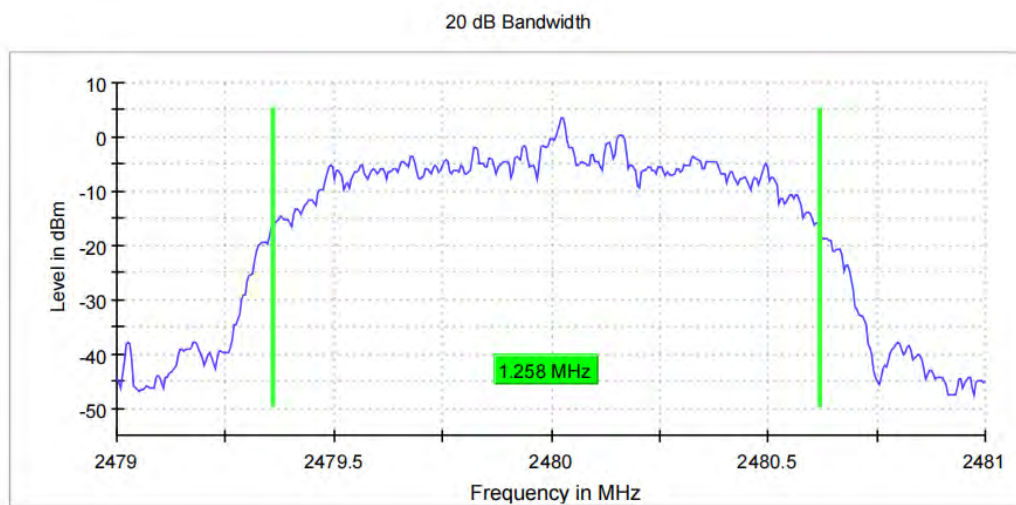


3DH5_Ant9_2441

20 dB Bandwidth



3DH5_Ant9_2480



RBW 10.000 kHz

VBW 30.000 kHz

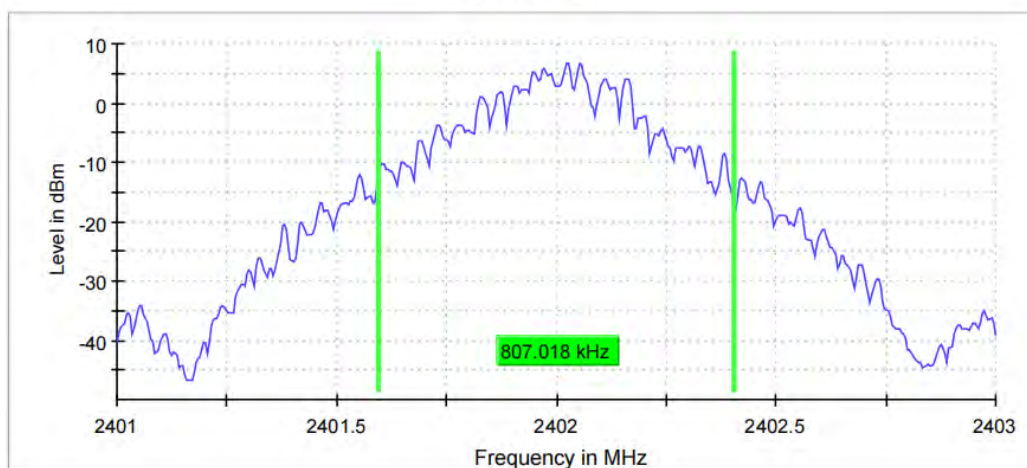
OCCUPIED CHANNEL BANDWIDTH TEST RESULT

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant9	2402	0.807	2401.596	2402.404	---	PASS
		2441	0.807	2440.591	2441.398	---	PASS
		2480	0.807	2479.591	2480.398	---	PASS
2DH5	Ant9	2402	1.173	2401.411	2402.584	---	PASS
		2441	1.168	2440.411	2441.579	---	PASS
		2480	1.178	2479.406	2480.584	---	PASS
3DH5	Ant9	2402	1.178	2401.406	2402.584	---	PASS
		2441	1.158	2440.416	2441.574	---	PASS
		2480	1.173	2479.406	2480.579	---	PASS

TEST GRAPHS

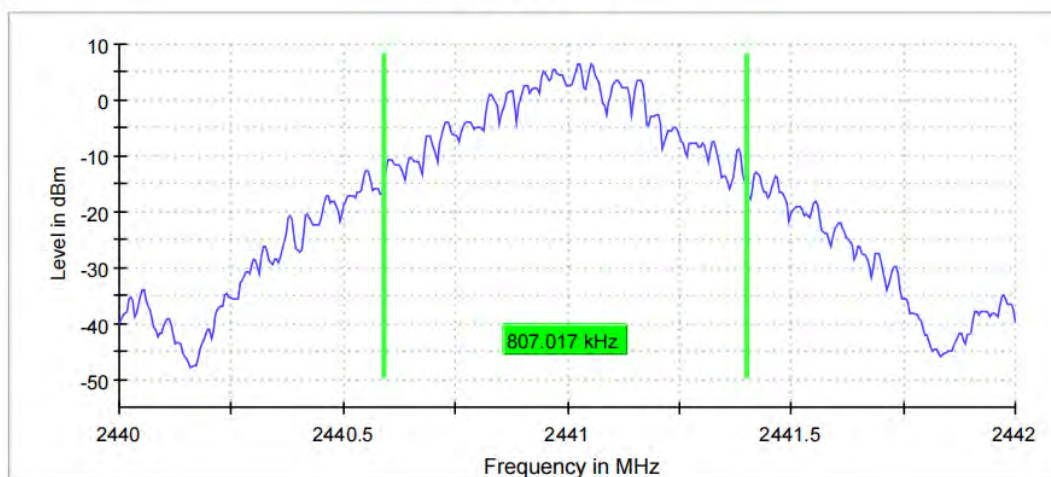
DH5_Ant9_2402

99 % Bandwidth



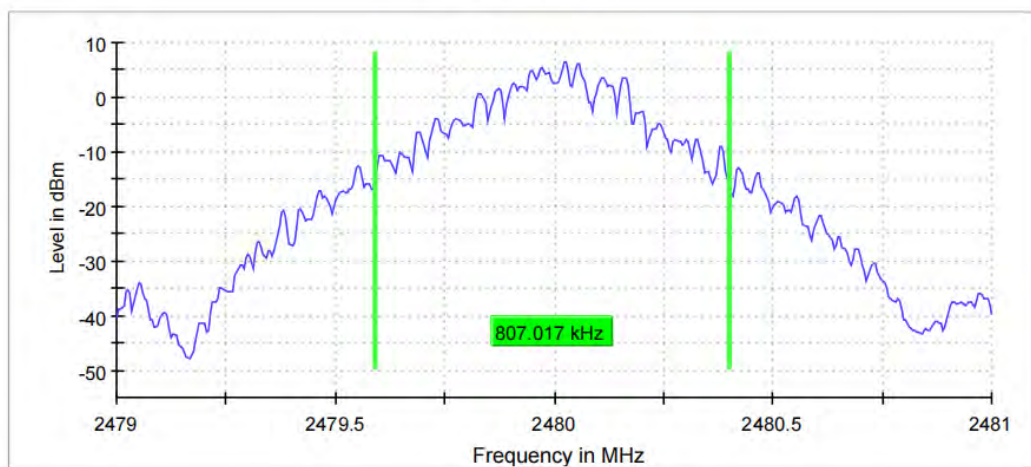
DH5_Ant9_2441

99 % Bandwidth



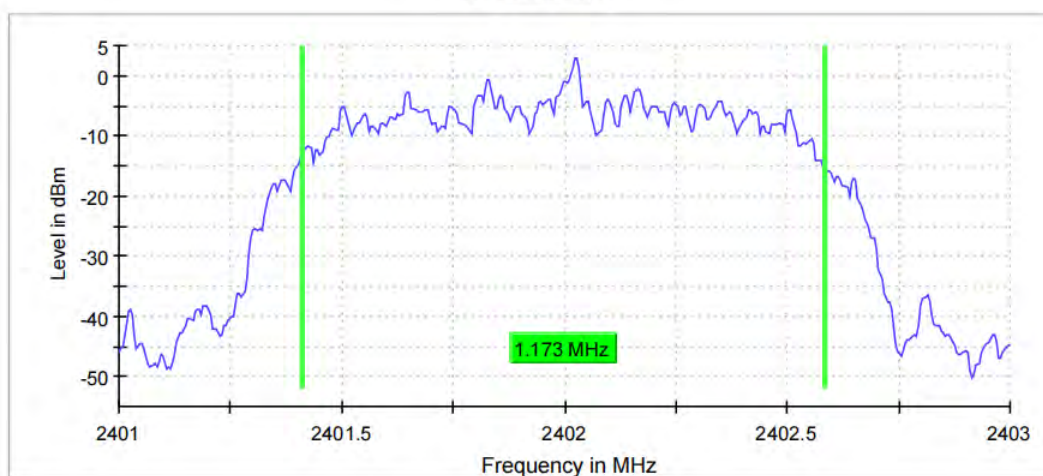
DH5_Ant9_2480

99 % Bandwidth



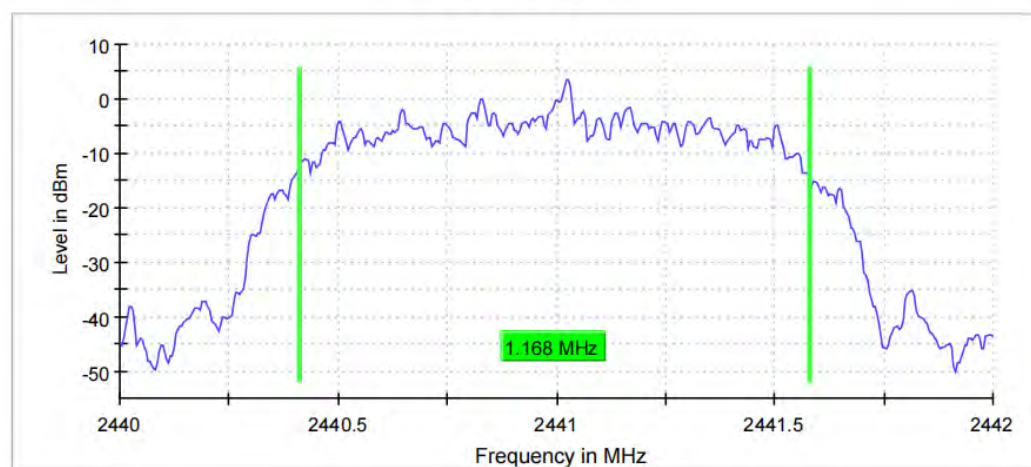
2DH5_Ant9_2402

99 % Bandwidth



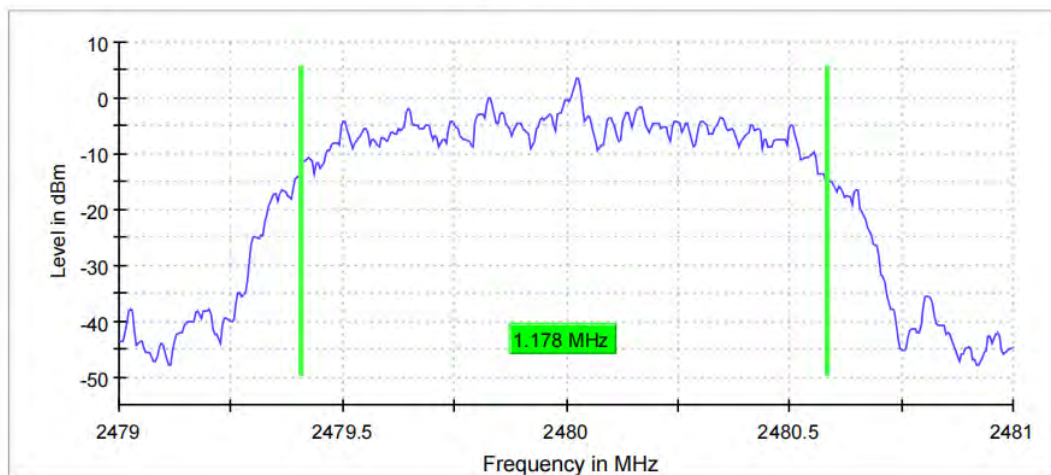
2DH5_Ant9_2441

99 % Bandwidth



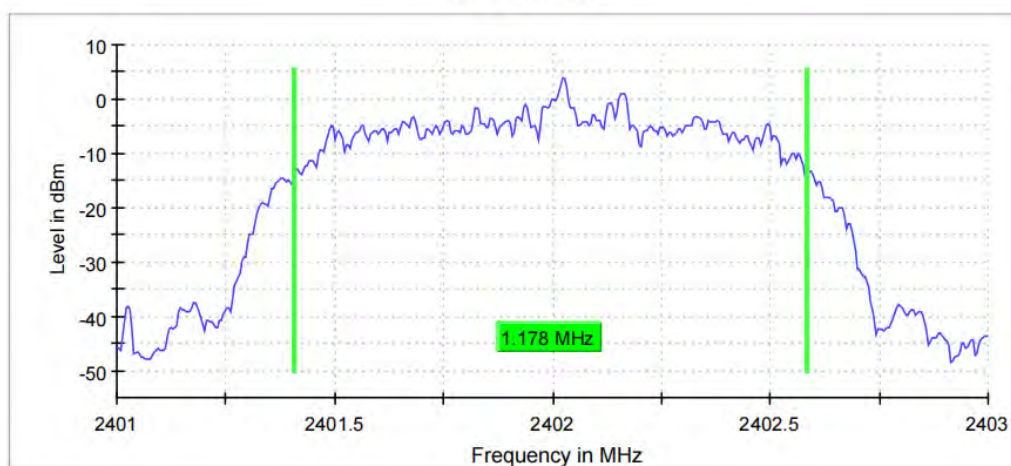
2DH5_Ant9_2480

99 % Bandwidth



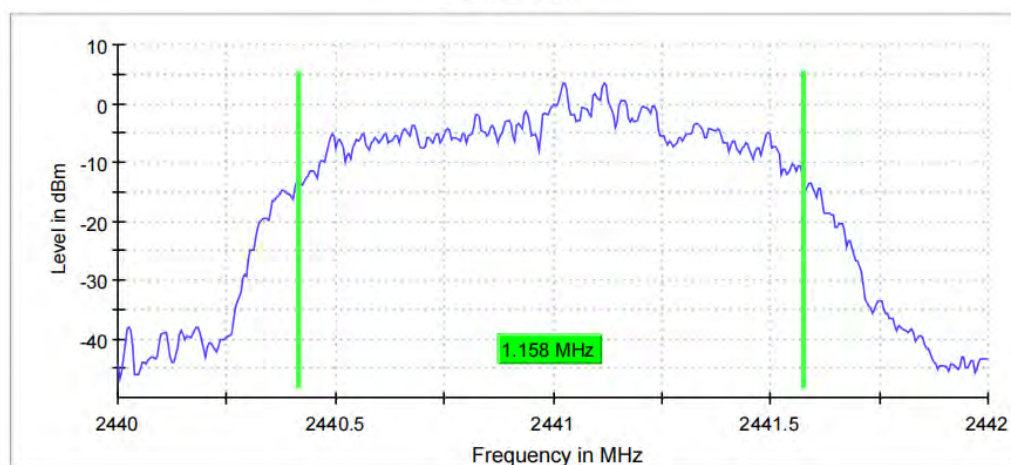
3DH5_Ant9_2402

99 % Bandwidth



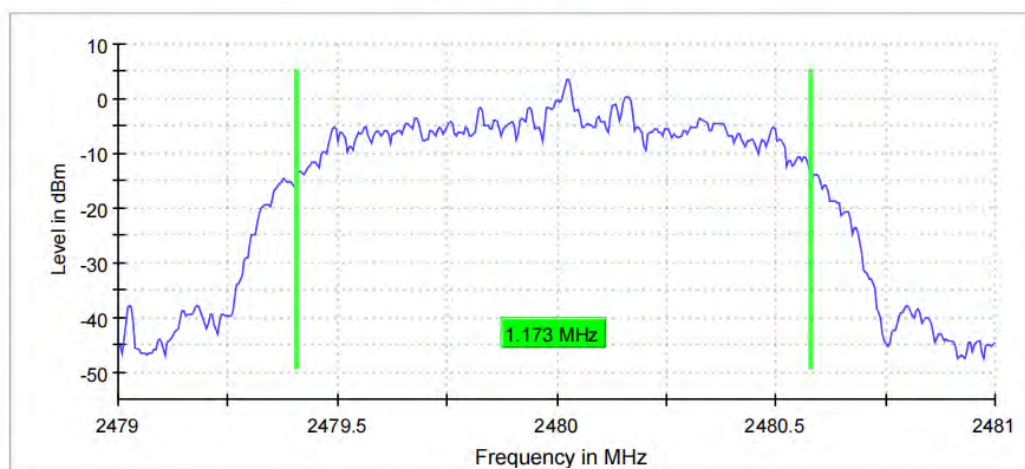
3DH5_Ant9_2441

99 % Bandwidth



3DH5_Ant9_2480

99 % Bandwidth



RBW 10.000 kHz
VBW 30.000 kHz

MAXIMUM CONDUCTED OUTPUT POWER TEST RESULT

TestMode	Antenna	Frequency [MHz]	Average power [dBm]	Peak Power [dBm]	Peak Power [mw]	Conducted Limit [dBm]	Verdict
DH5	Ant9	2402	10.65	11.99	15.80	≤20.97	PASS
		2441	10.48	12.00	15.85	≤20.97	PASS
		2480	10.43	11.74	14.93	≤20.97	PASS
2DH5	Ant9	2402	7.793	11.07	12.79	≤20.97	PASS
		2441	7.5	10.97	12.50	≤20.97	PASS
		2480	7.567	10.82	12.08	≤20.97	PASS
3DH5	Ant9	2402	7.811	11.42	13.87	≤20.97	PASS
		2441	7.514	11.21	13.21	≤20.97	PASS
		2480	7.578	11.17	13.09	≤20.97	PASS



Reference No.: PSU-NQN2403180115RF01

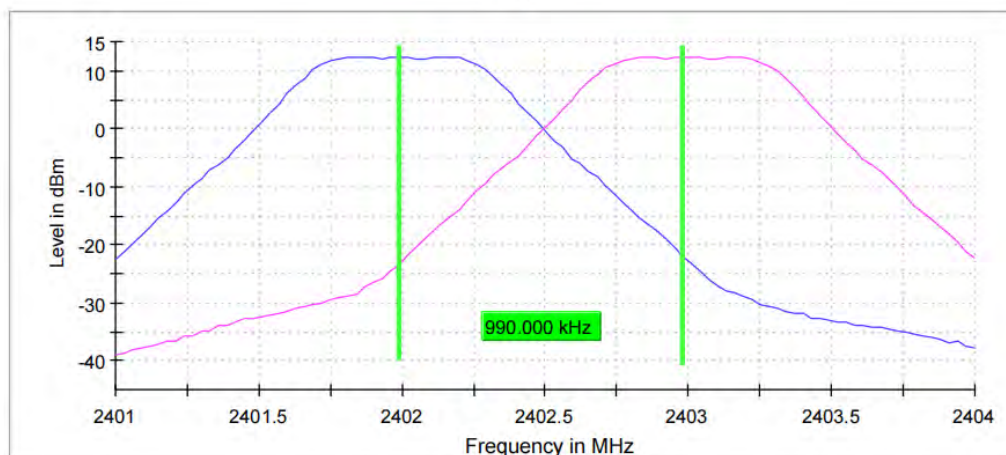
CARRIER FREQUENCY SEPARATION TEST RESULT

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant9	Hop	0.990	≥ 0.6321	PASS
2DH5	Ant9	Hop	0.990	≥ 0.8743	PASS
3DH5	Ant9	Hop	1.020	≥ 0.8636	PASS

TEST GRAPHS

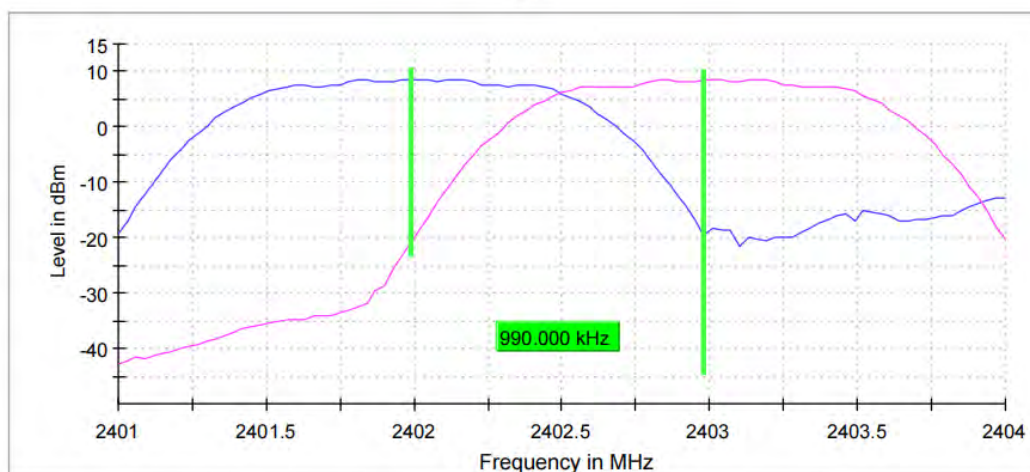
DH5_Ant9_Hop

CFS

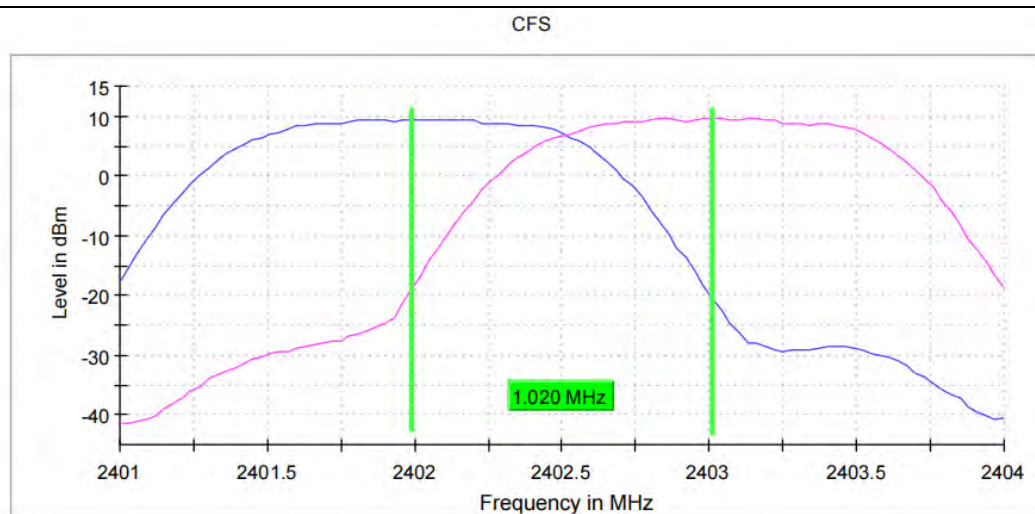


2DH5_Ant9_Hop

CFS



3DH5_Ant9_Hop



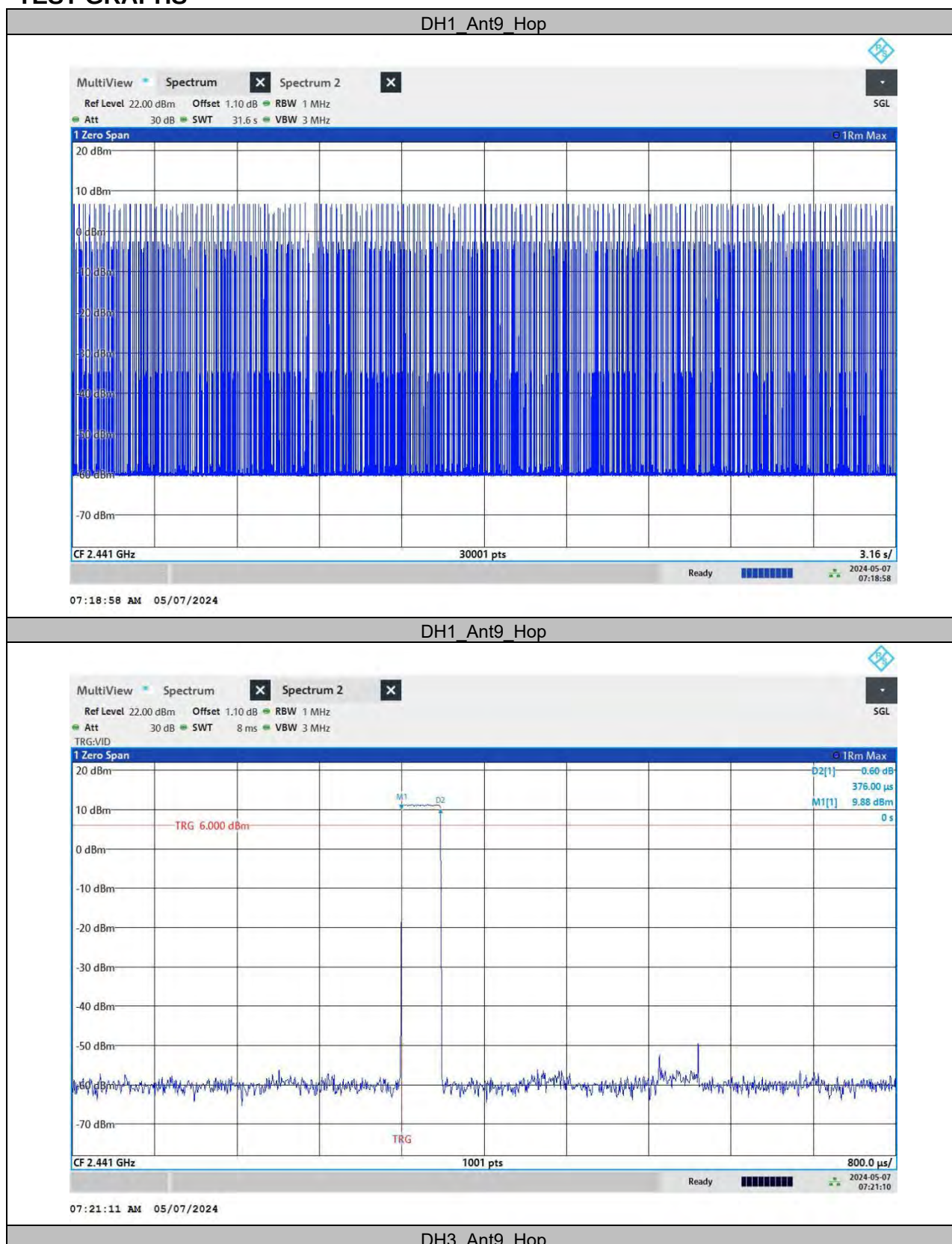
RBW 300.000 kHz

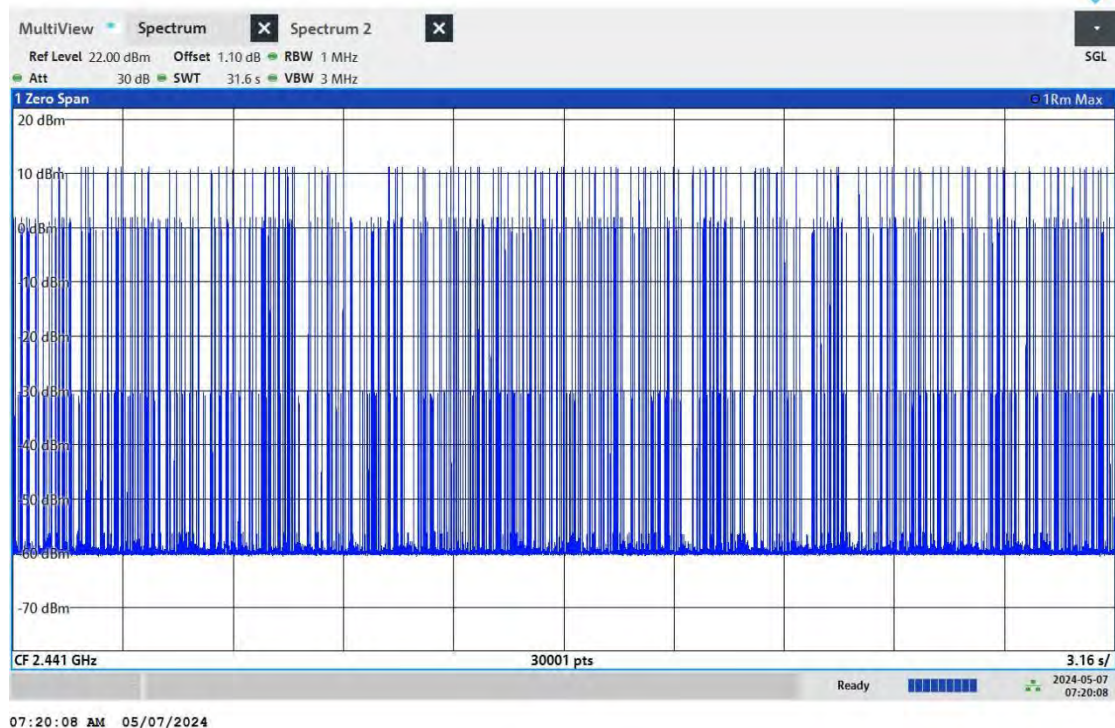
VBW 300.000 kHz

TIME OF OCCUPANCY TEST RESULT

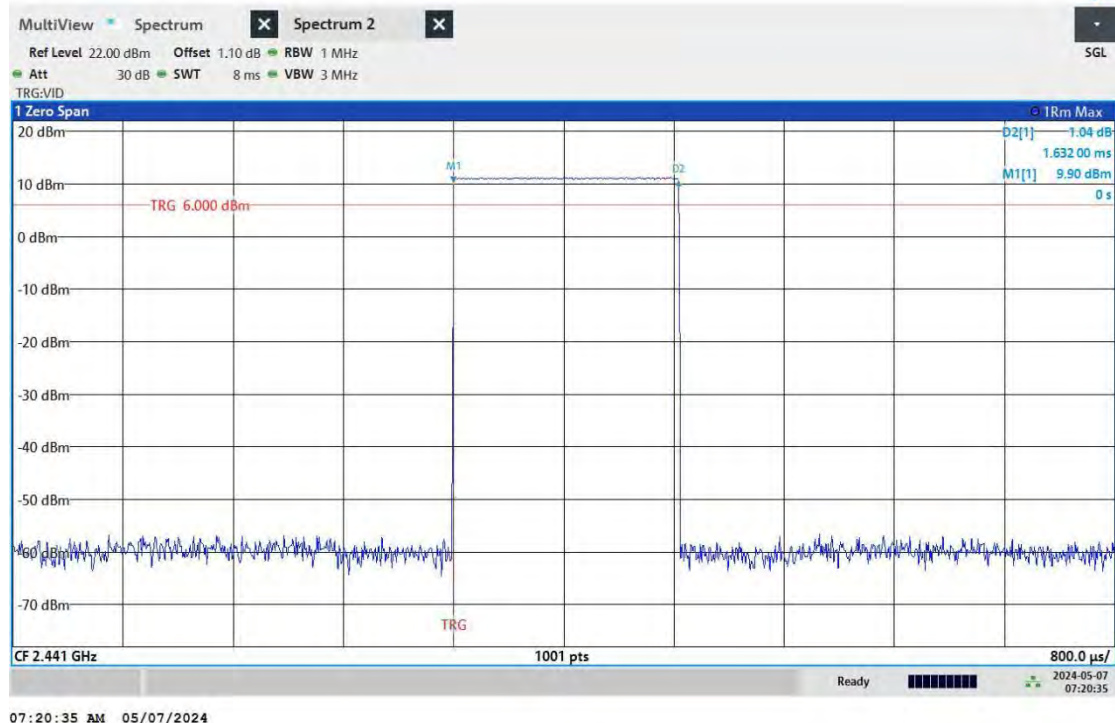
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[ms]	Limit[s]	Verdict
DH1	Ant9	Hop	0.376	235	88.360	≤0.4	PASS
DH3	Ant9	Hop	1.632	153	249.696	≤0.4	PASS
DH5	Ant9	Hop	2.880	128	368.640	≤0.4	PASS
2DH1	Ant9	Hop	0.376	250	94.000	≤0.4	PASS
2DH3	Ant9	Hop	1.632	161	262.752	≤0.4	PASS
2DH5	Ant9	Hop	2.880	96	276.480	≤0.4	PASS
3DH1	Ant9	Hop	0.376	247	92.872	≤0.4	PASS
3DH3	Ant9	Hop	1.632	156	254.592	≤0.4	PASS
3DH5	Ant9	Hop	2.888	101	291.688	≤0.4	PASS

TEST GRAPHS

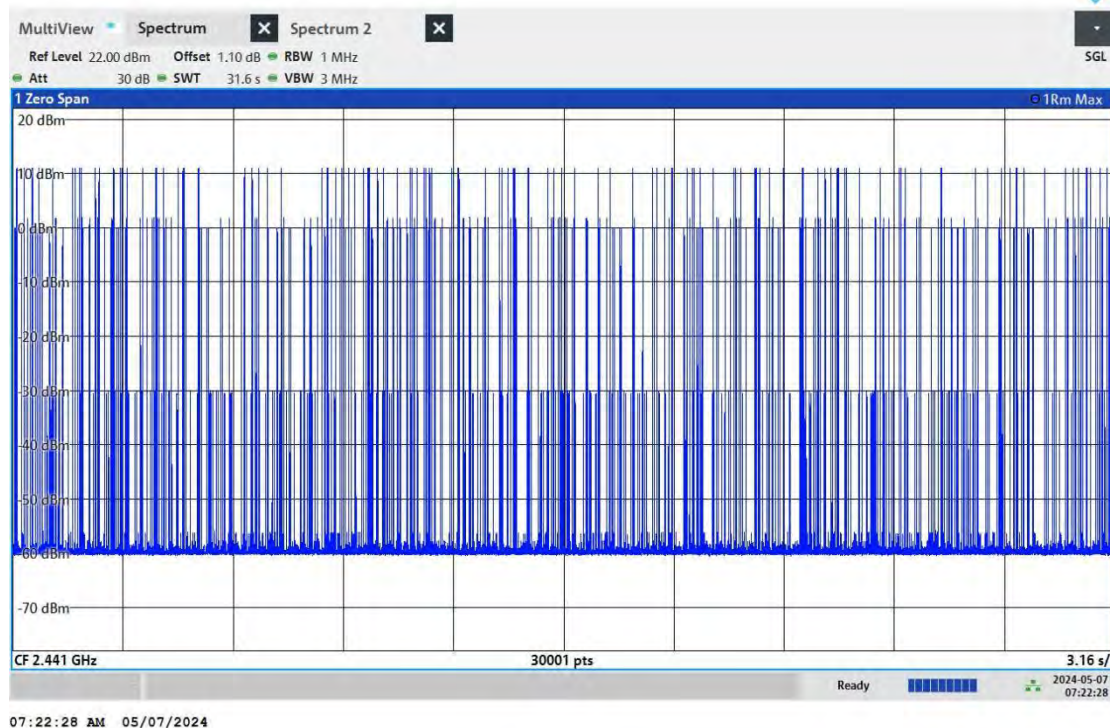




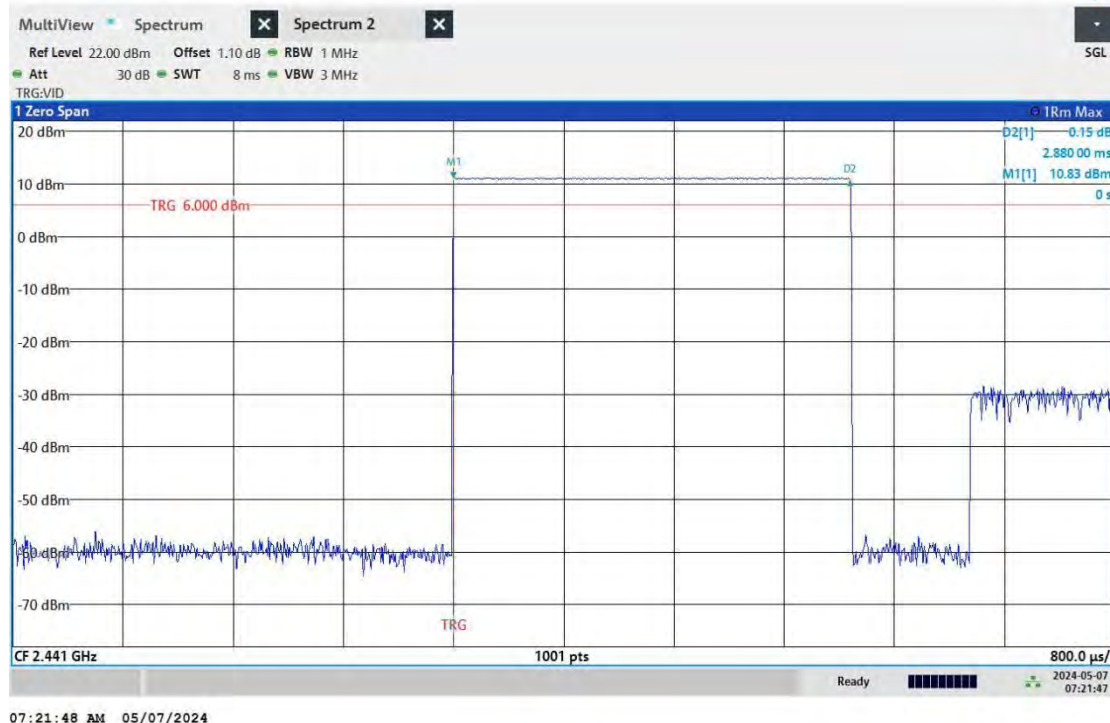
DH3_Ant9_Hop



DH5_Ant9_Hop



DH5_Ant9_Hop

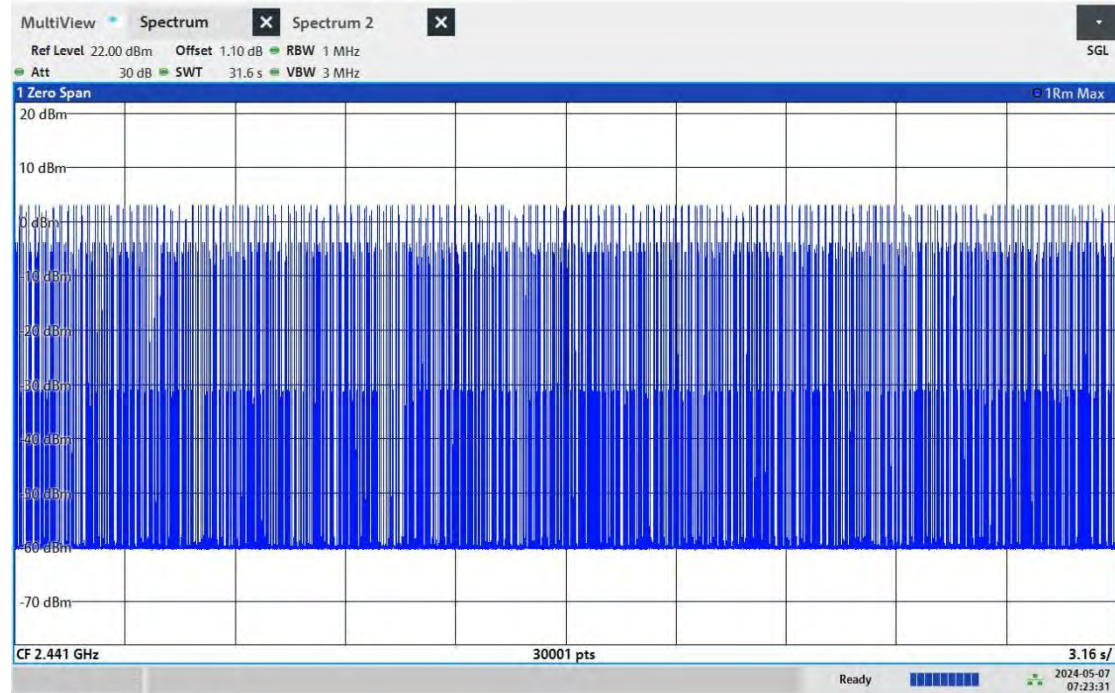


2DH1_Ant9_Hop



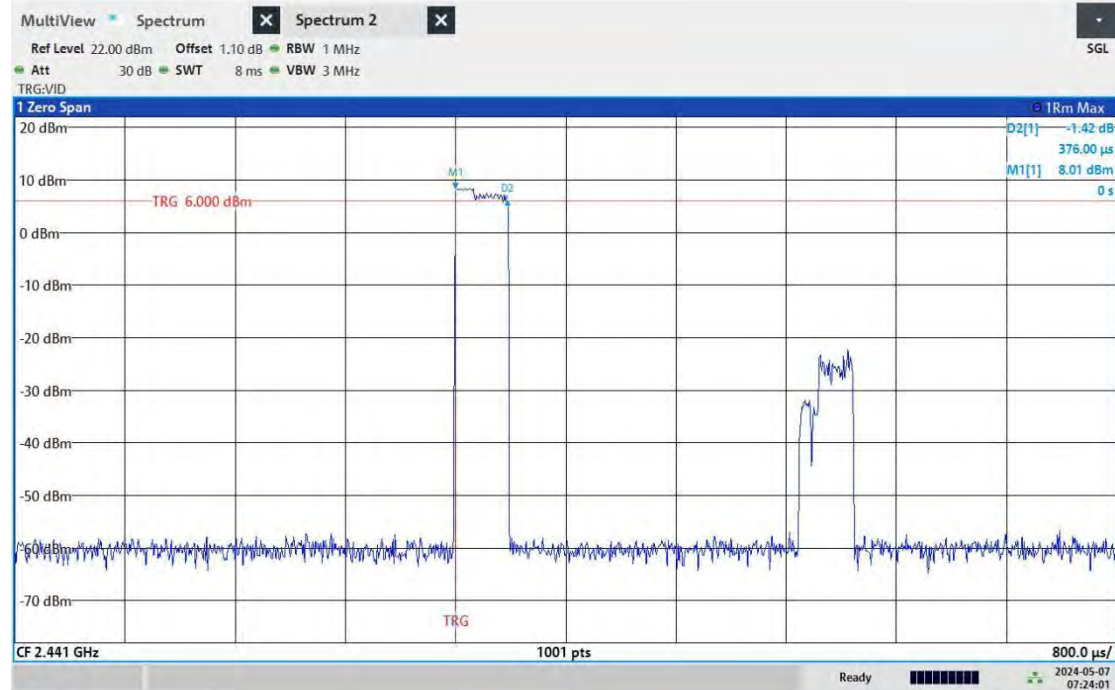
BUREAU
VERITAS

Reference No.: PSU-NQN2403180115RF01



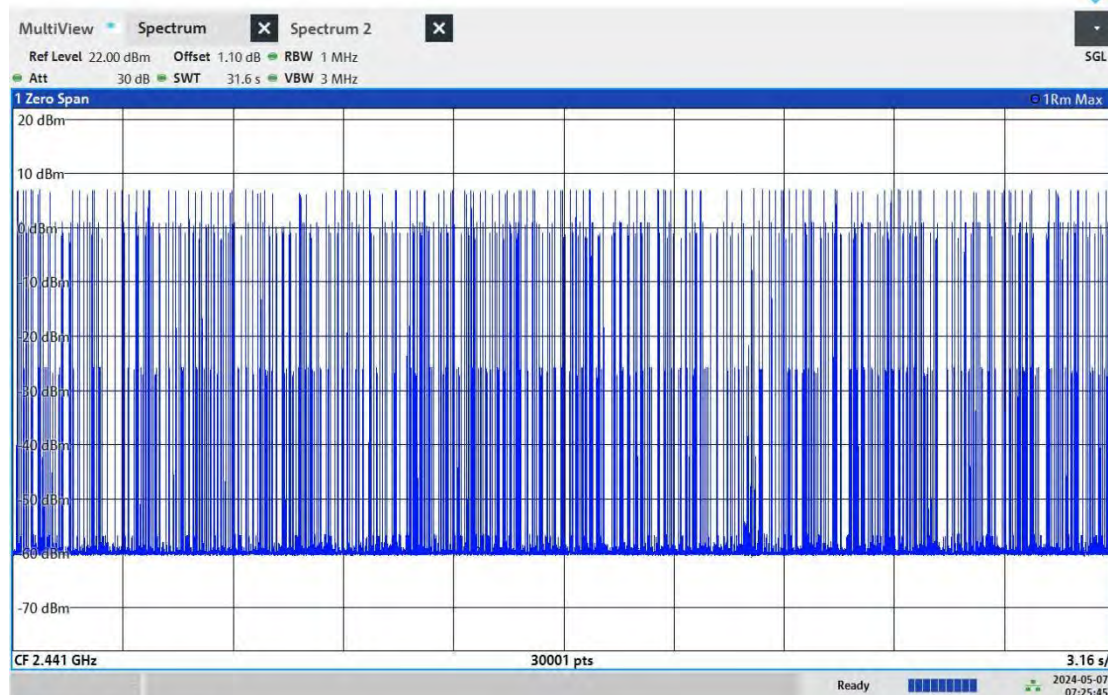
07:23:31 AM 05/07/2024

2DH1_Ant9_Hop



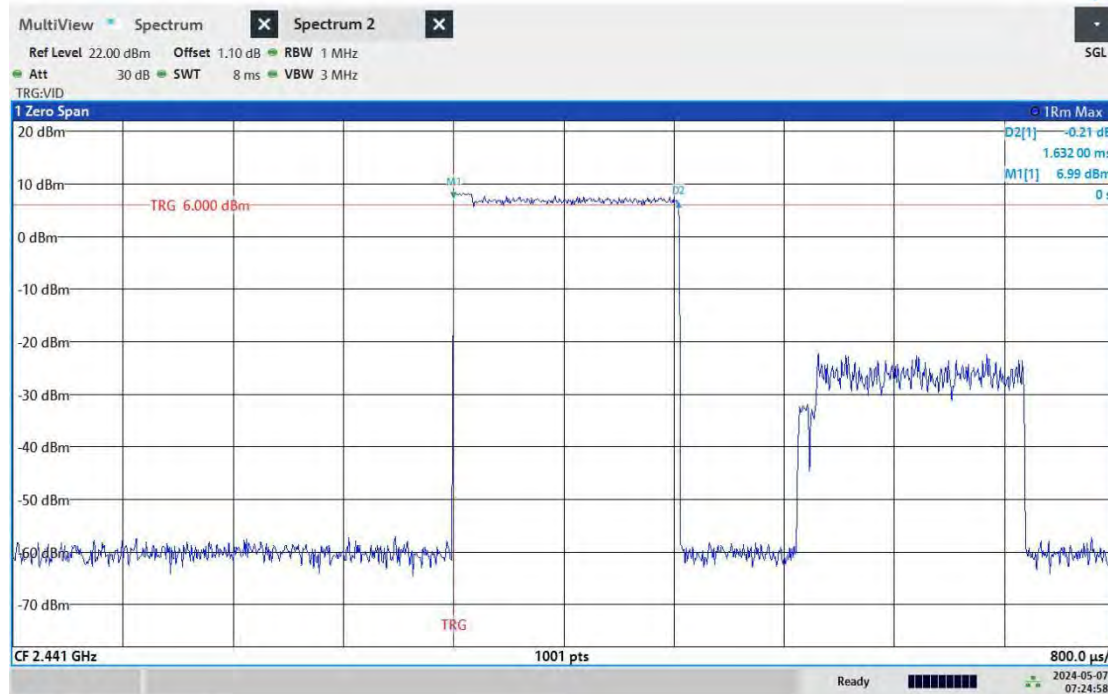
07:24:01 AM 05/07/2024

2DH3_Ant9_Hop



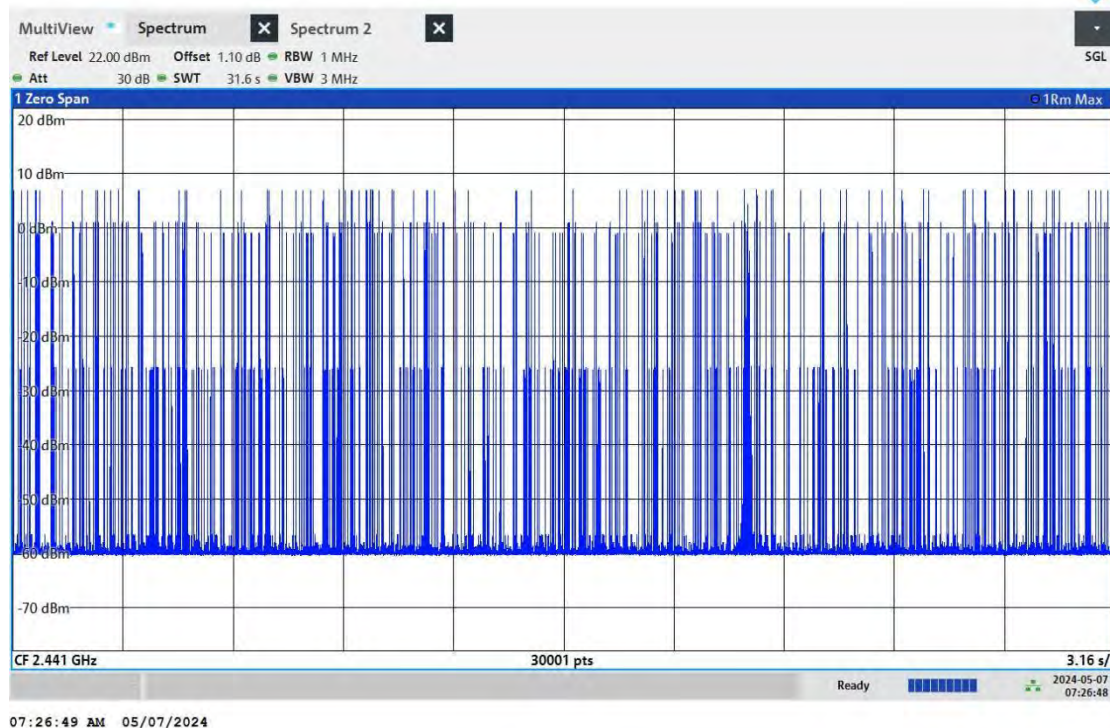
07:25:45 AM 05/07/2024

2DH3_Ant9_Hop

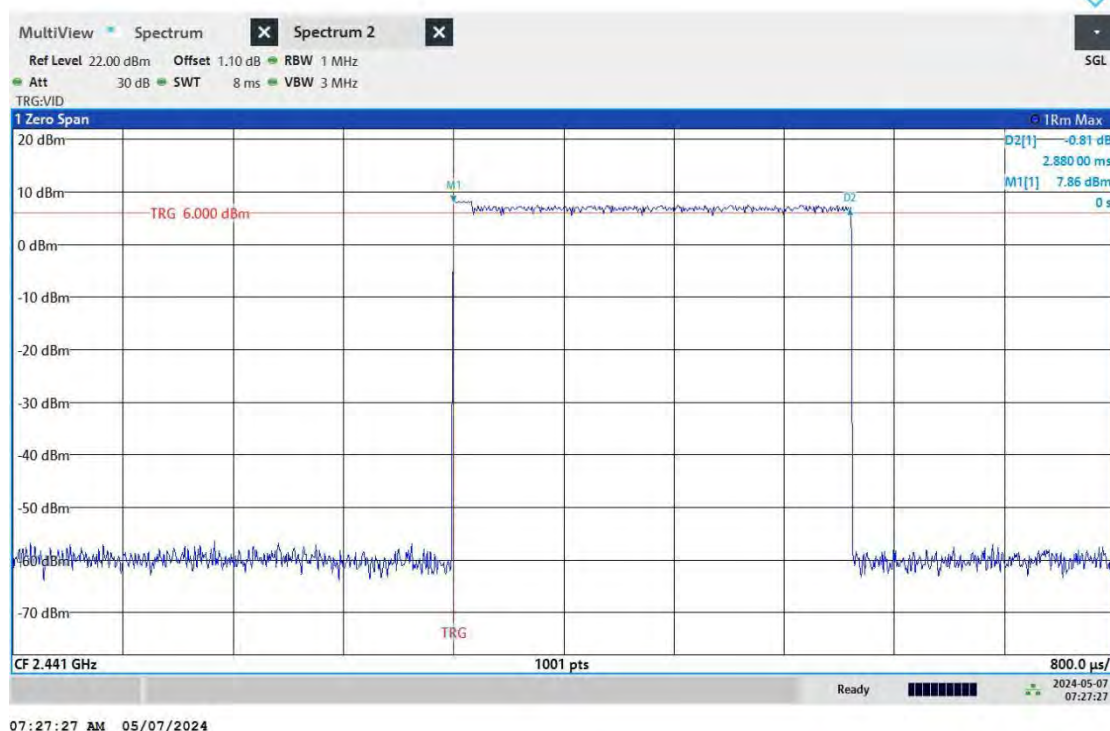


07:24:59 AM 05/07/2024

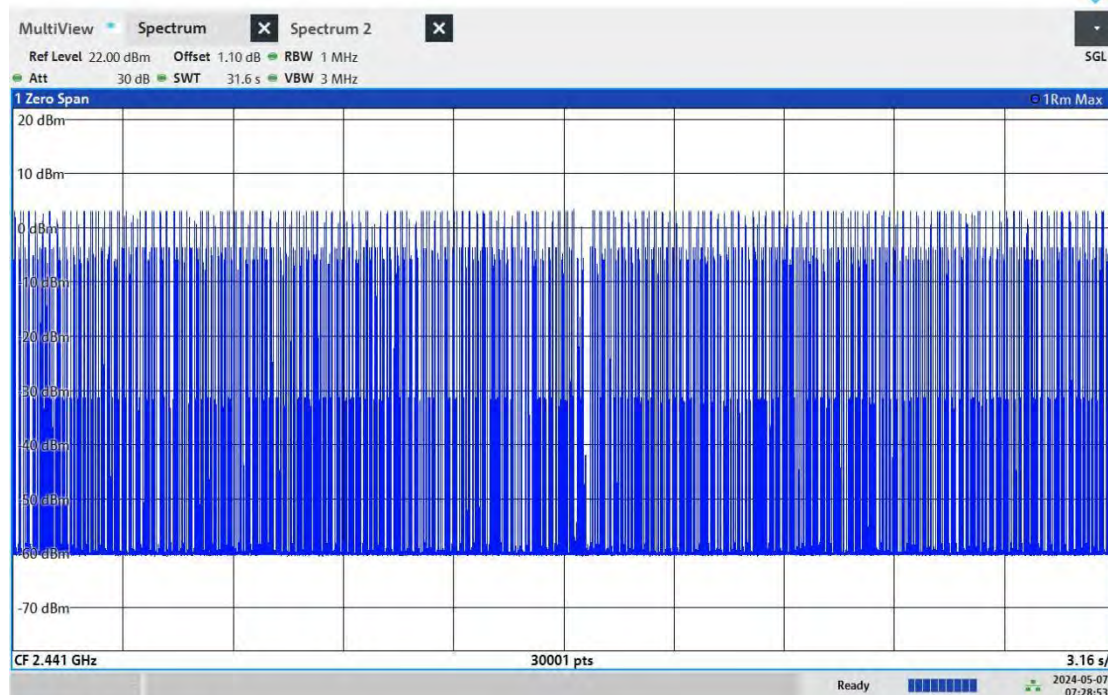
2DH5_Ant9_Hop



2DH5_Ant9_Hop

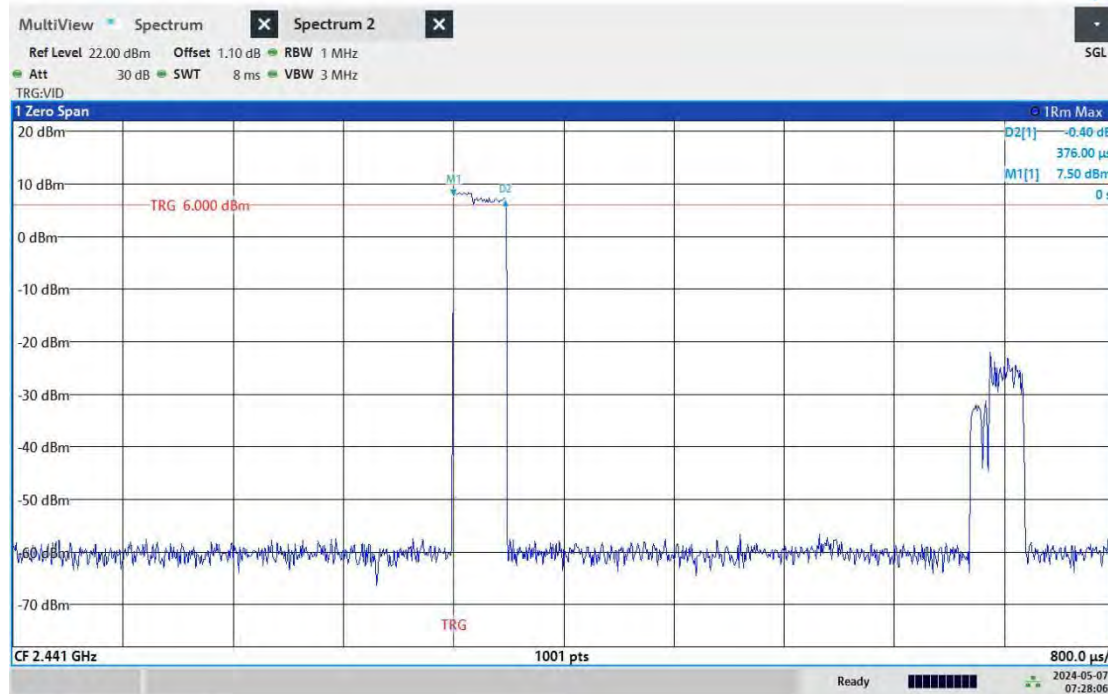


3DH1_Ant9_Hop



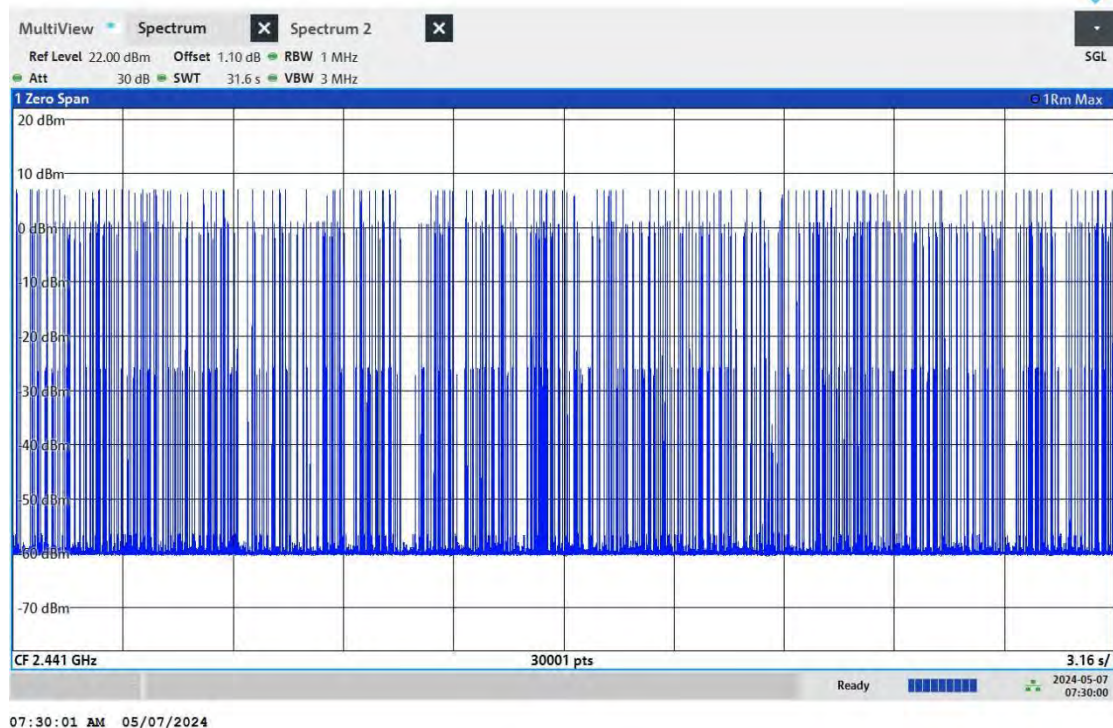
07:28:53 AM 05/07/2024

3DH1_Ant9_Hop

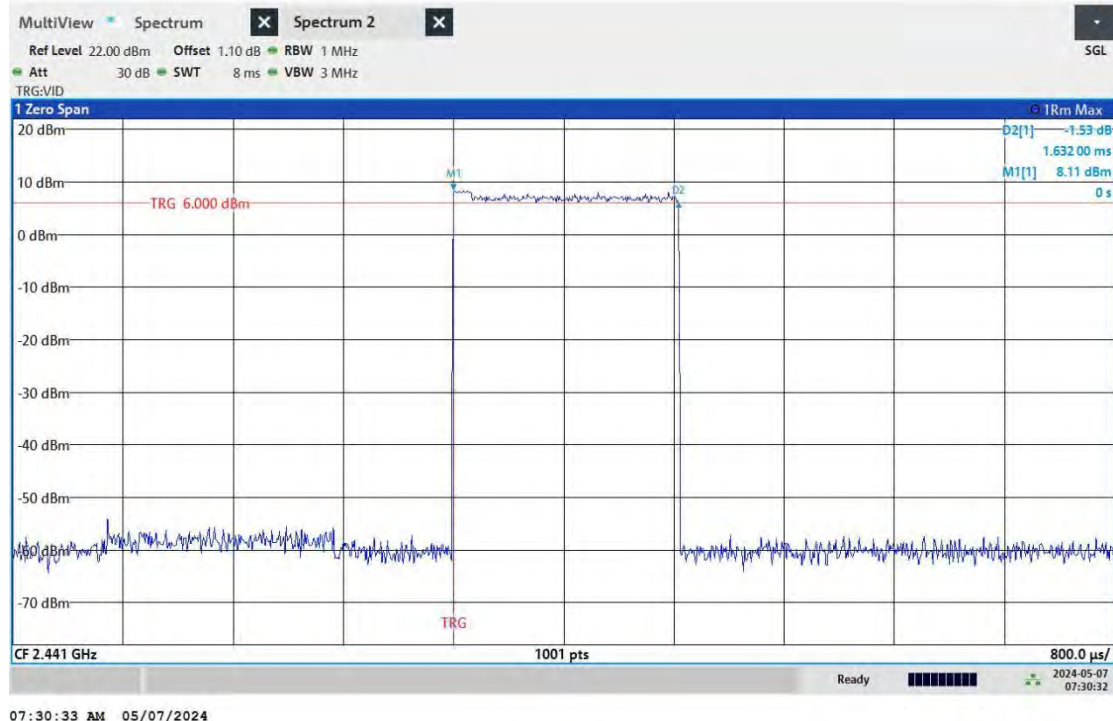


07:28:06 AM 05/07/2024

3DH3_Ant9_Hop



3DH3_Ant9_Hop

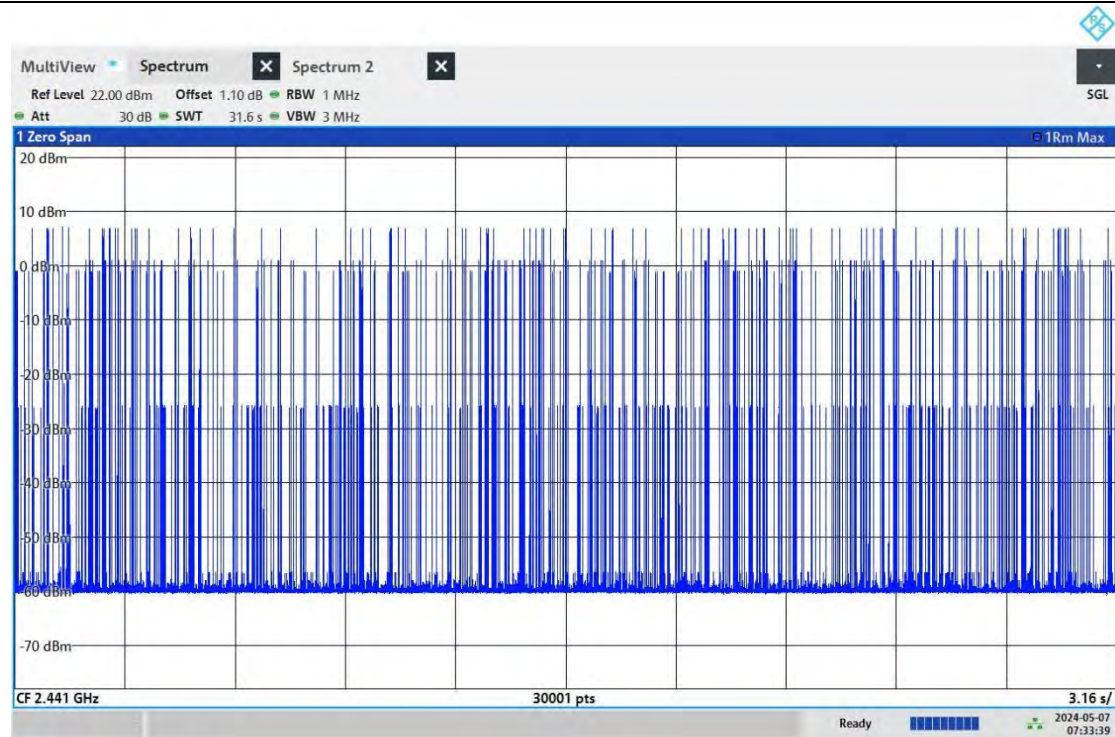


3DH5_Ant9_Hop



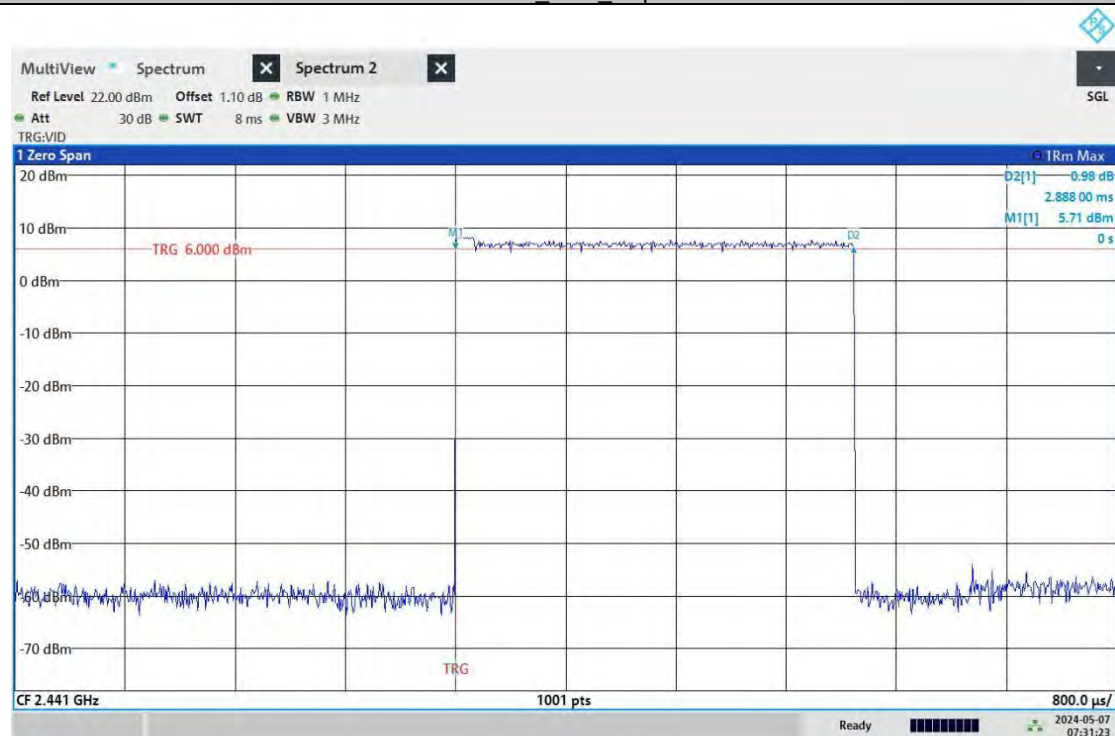
BUREAU
VERITAS

Reference No.: PSU-NQN2403180115RF01



07:33:39 AM 05/07/2024

3DH5_Ant9_Hop



07:31:24 AM 05/07/2024



Reference No.: PSU-NQN2403180115RF01

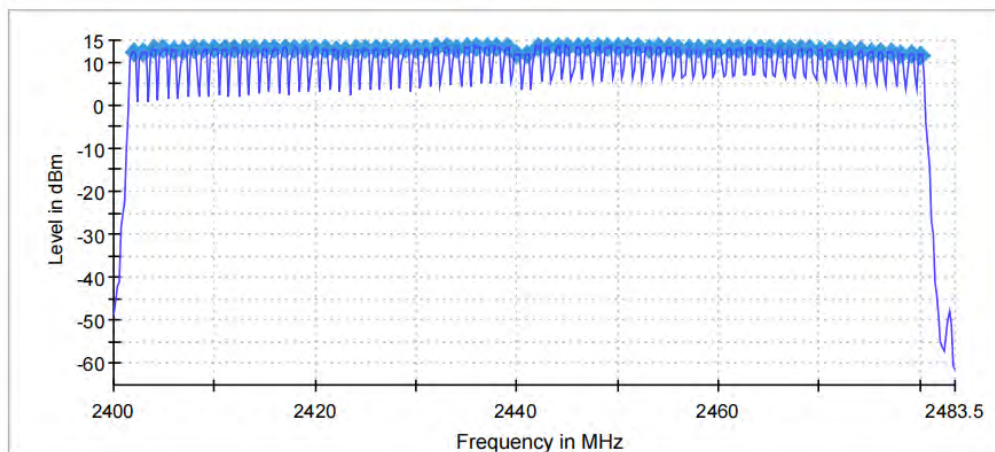
NUMBER OF HOPPING CHANNELS TEST RESULT

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant9	Hop	79	≥ 15	PASS
2DH5	Ant9	Hop	79	≥ 15	PASS
3DH5	Ant9	Hop	79	≥ 15	PASS

TEST GRAPHS

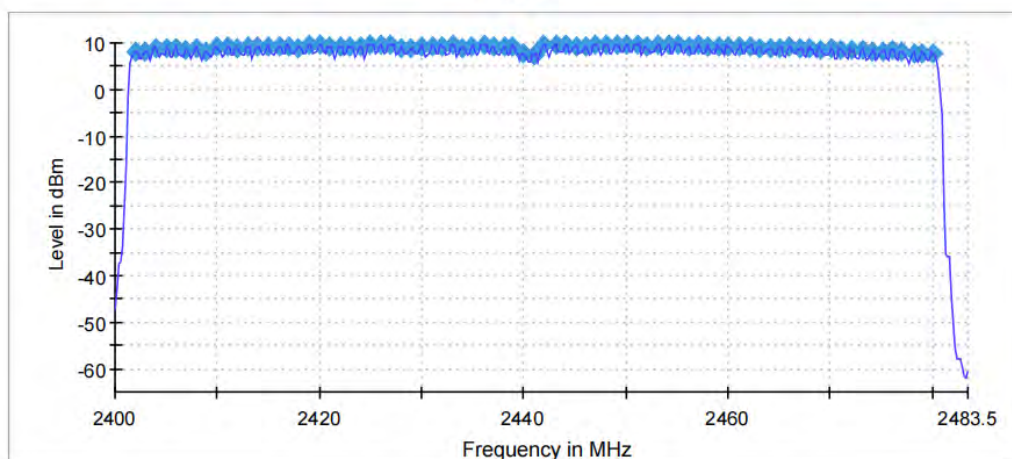
DH5_Ant9_Hop

Sequence



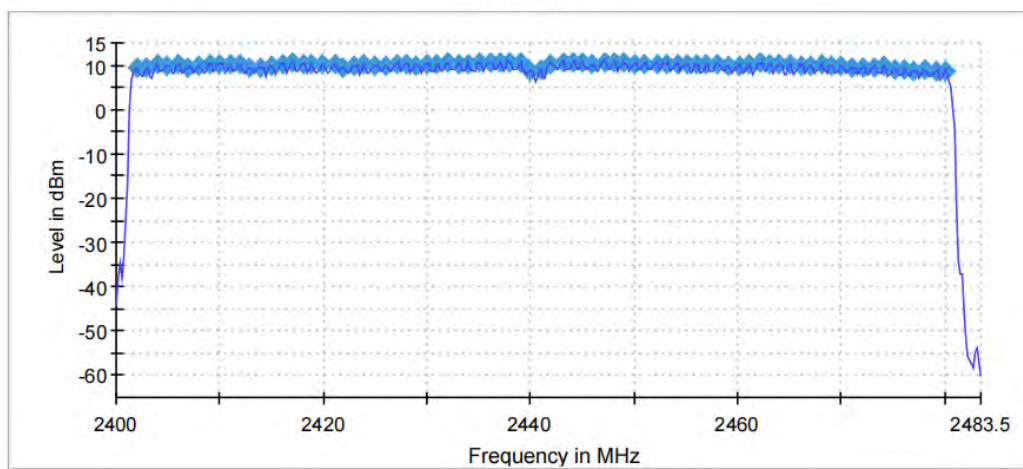
2DH5_Ant9_Hop

Sequence



3DH5_Ant9_Hop

Sequence



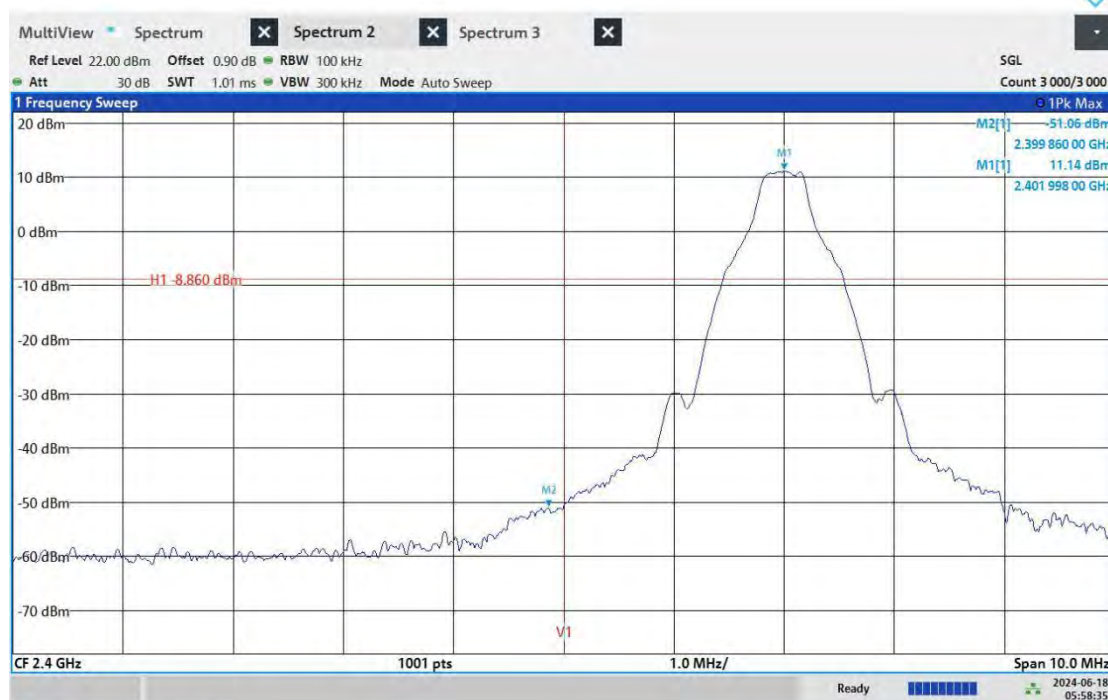
RBW 200.000 kHz
VBW 200.000 kHz

BAND EDGE MEASUREMENTS TEST RESULT

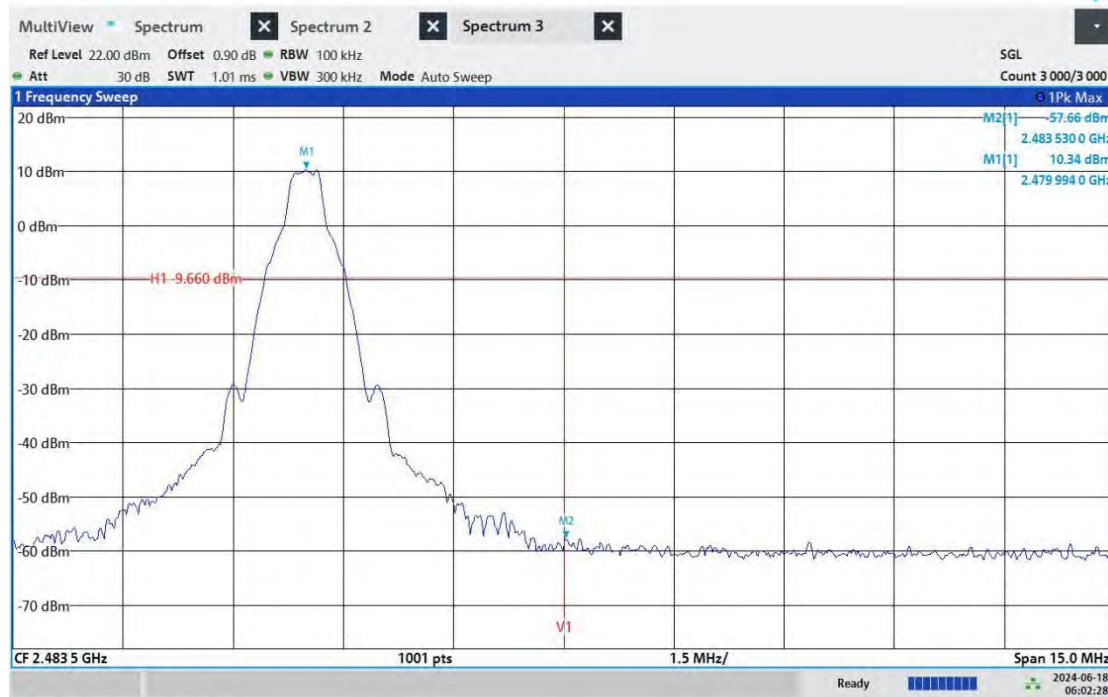
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant9	Low	2402	See test graph	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	See test graph	PASS
		Low	Hop_2402	See test graph	See test graph	See test graph	PASS
		High	Hop_2480	See test graph	See test graph	See test graph	PASS
2DH5	Ant9	Low	2402	See test graph	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	See test graph	PASS
		Low	Hop_2402	See test graph	See test graph	See test graph	PASS
		High	Hop_2480	See test graph	See test graph	See test graph	PASS
3DH5	Ant9	Low	2402	See test graph	See test graph	See test graph	PASS
		High	2480	See test graph	See test graph	See test graph	PASS
		Low	Hop_2402	See test graph	See test graph	See test graph	PASS
		High	Hop_2480	See test graph	See test graph	See test graph	PASS

TEST GRAPHS

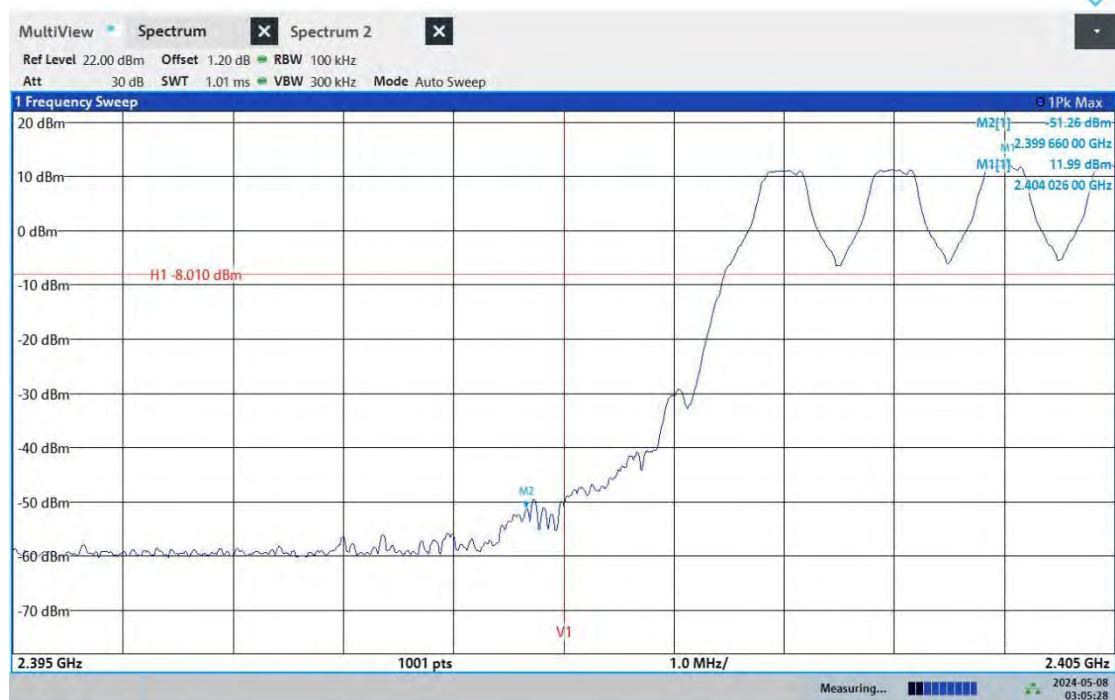
DH5_Ant9_Low_2402



DH5_Ant9_High_2480

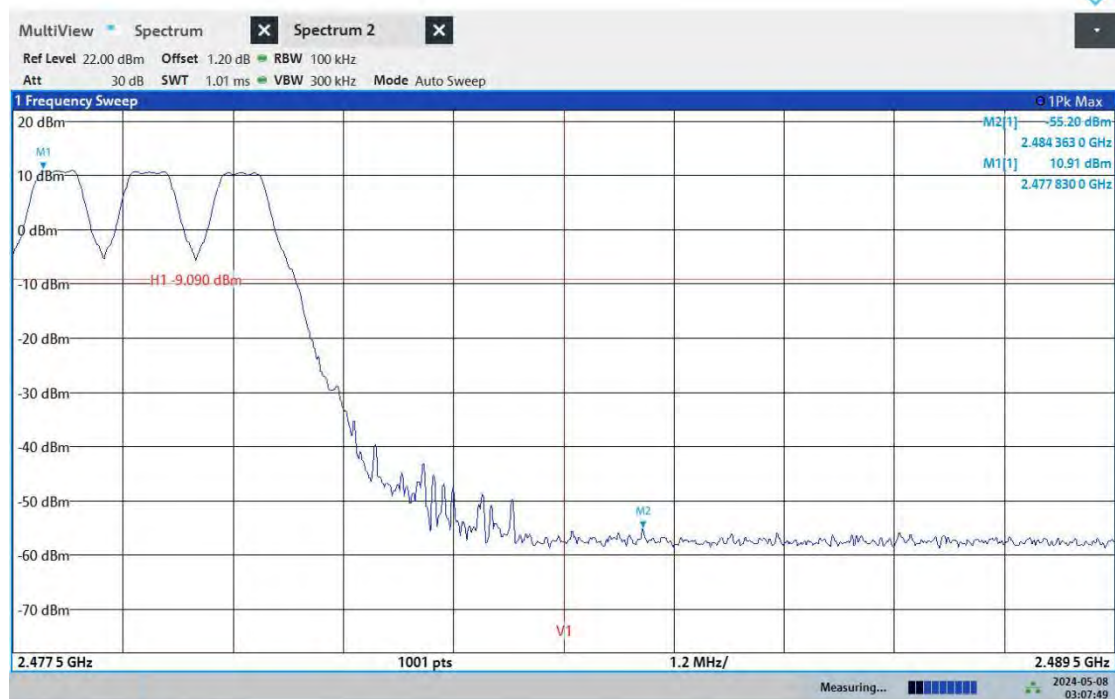


DH5_Ant9_Low_Hop_2402



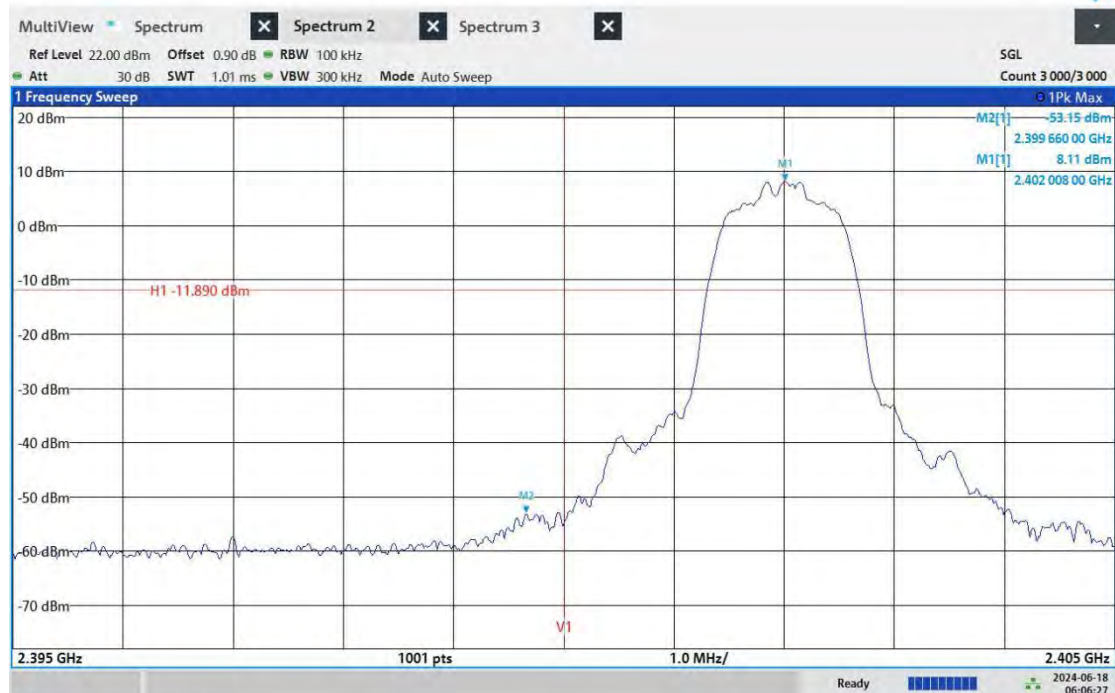
03:05:29 AM 05/08/2024

DH5_Ant9_High_Hop_2480



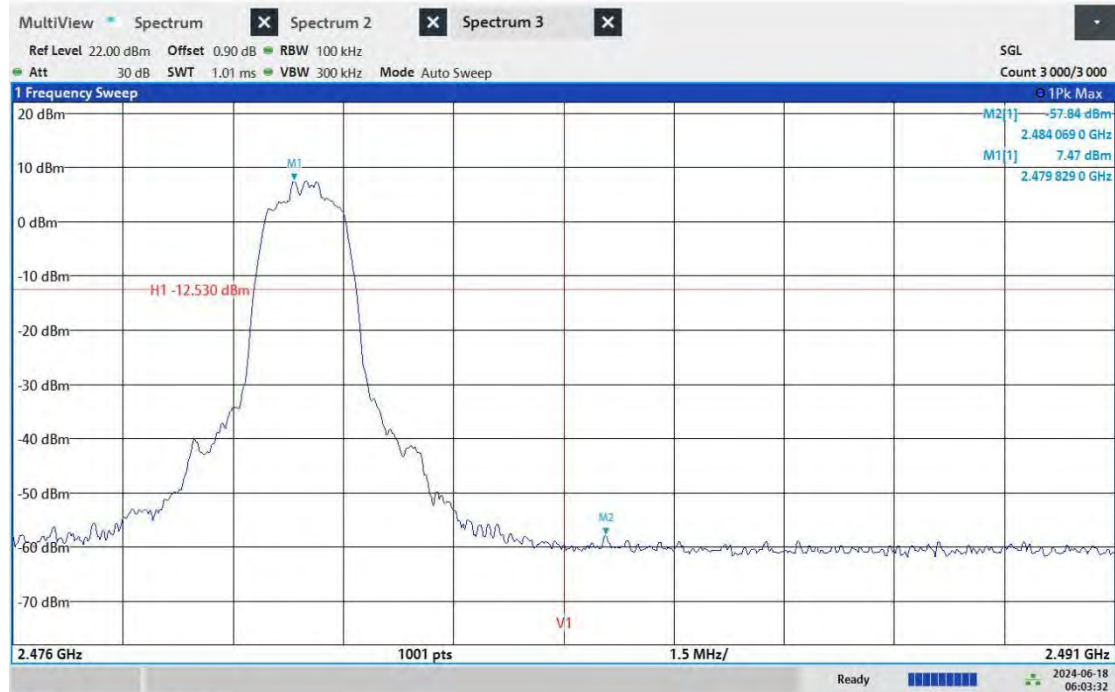
03:07:50 AM 05/08/2024

2DH5_Ant9_Low_2402



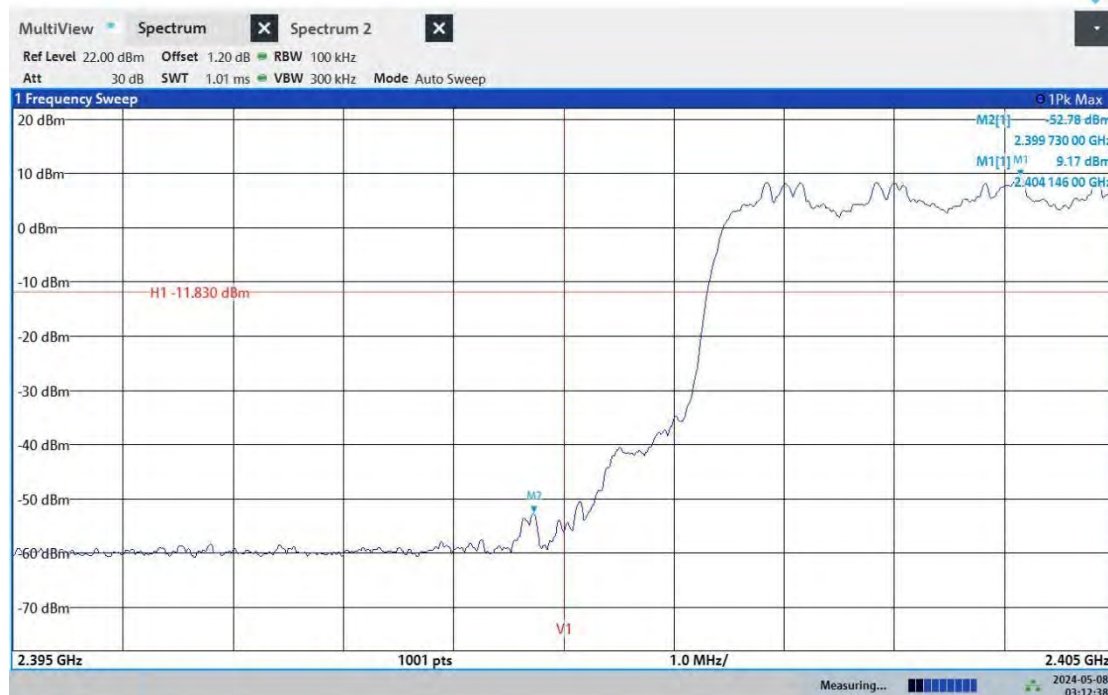
06:06:28 AM 06/18/2024

2DH5_Ant9_High_2480



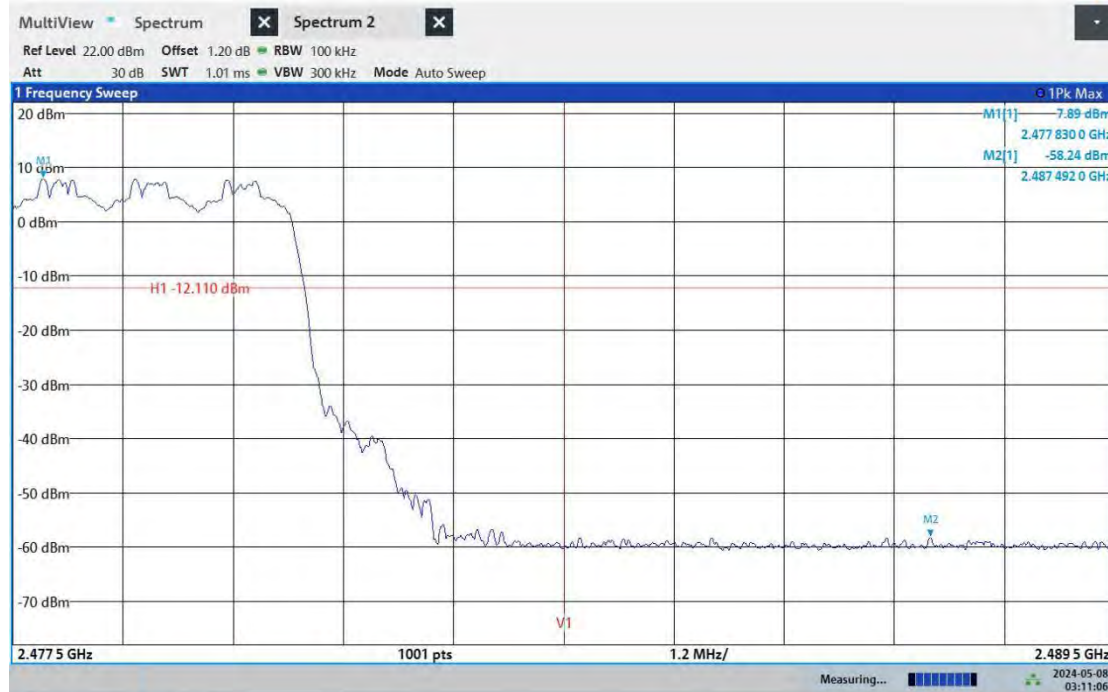
06:03:33 AM 06/18/2024

2DH5_Ant9_Low_Hop_2402



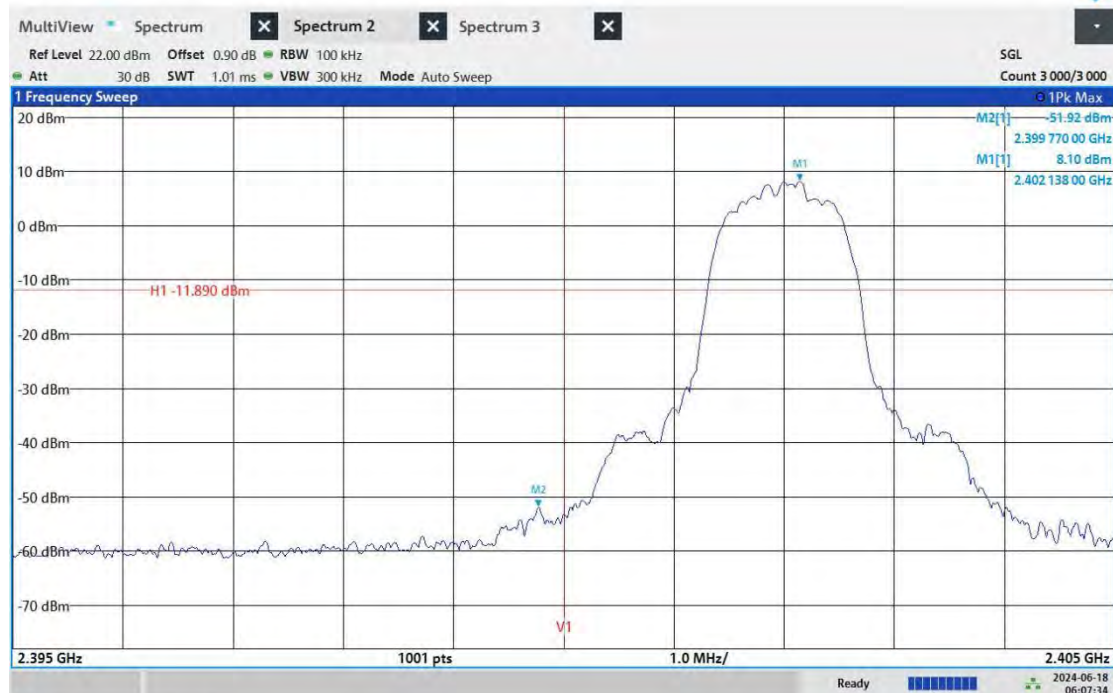
03:12:38 AM 05/08/2024

2DH5 Ant9 High Hop 2480



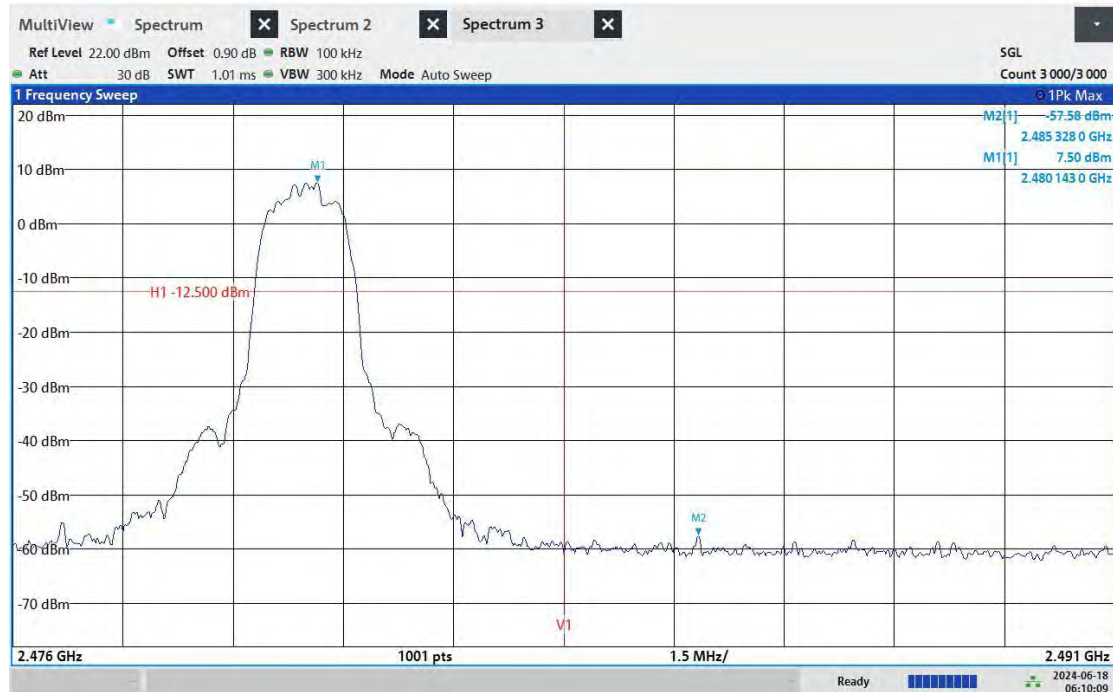
03:11:07 AM 05/08/2024

3DH5 Ant9 Low 2402



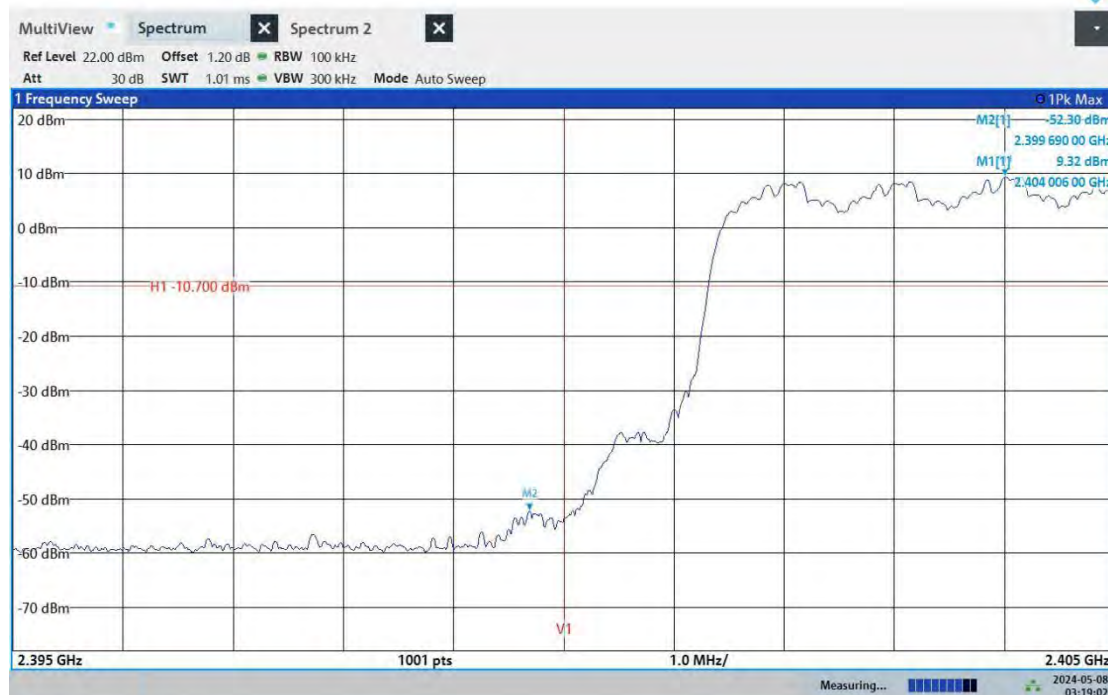
06:07:34 AM 06/18/2024

3DH5_Ant9_High_2480



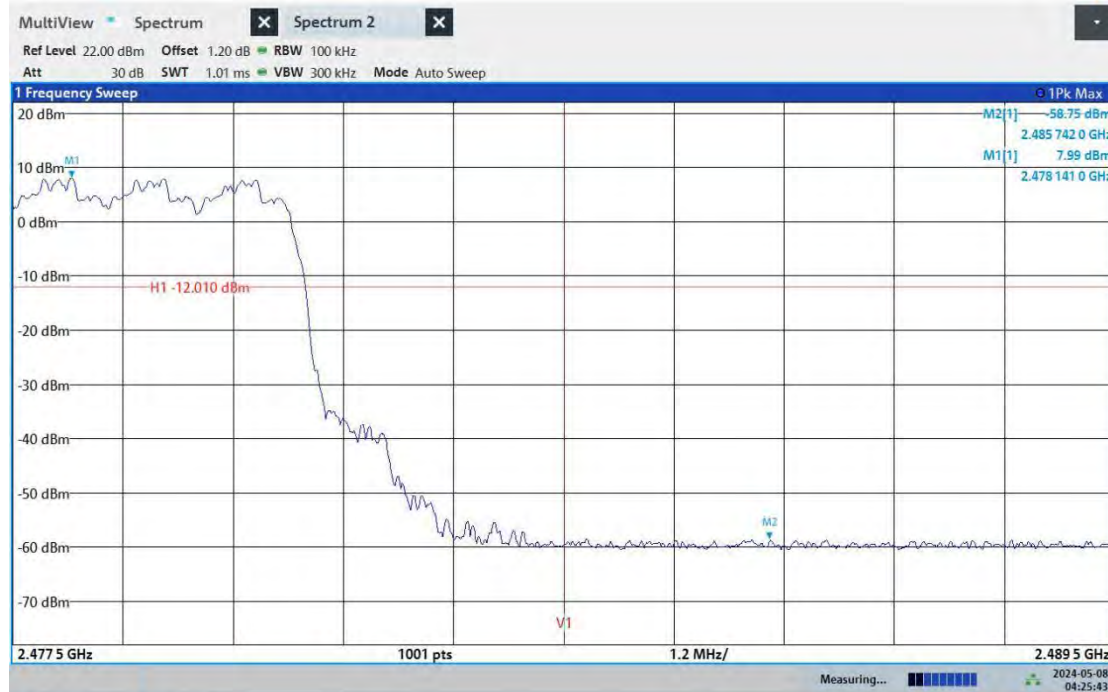
06:10:09 AM 06/18/2024

3DH5_Ant9_Low_Hop_2402



03:19:02 AM 05/08/2024

3DH5 Ant9 High Hop 2480



04:25:43 AM 05/08/2024

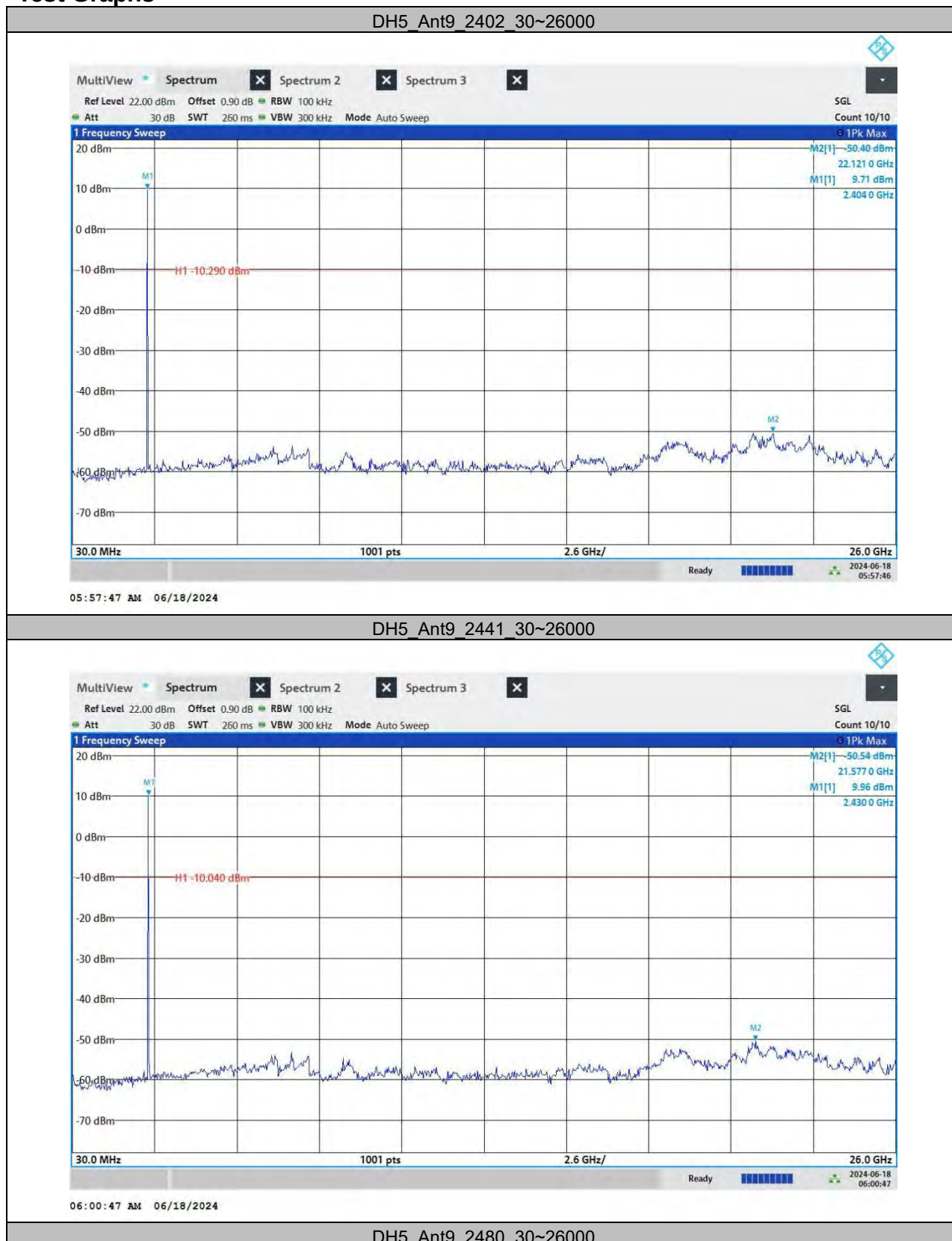
RBW 100.000 kHz

VBW 300.000 kHz

CONDUCTED SPURIOUS EMISSION TEST RESULT

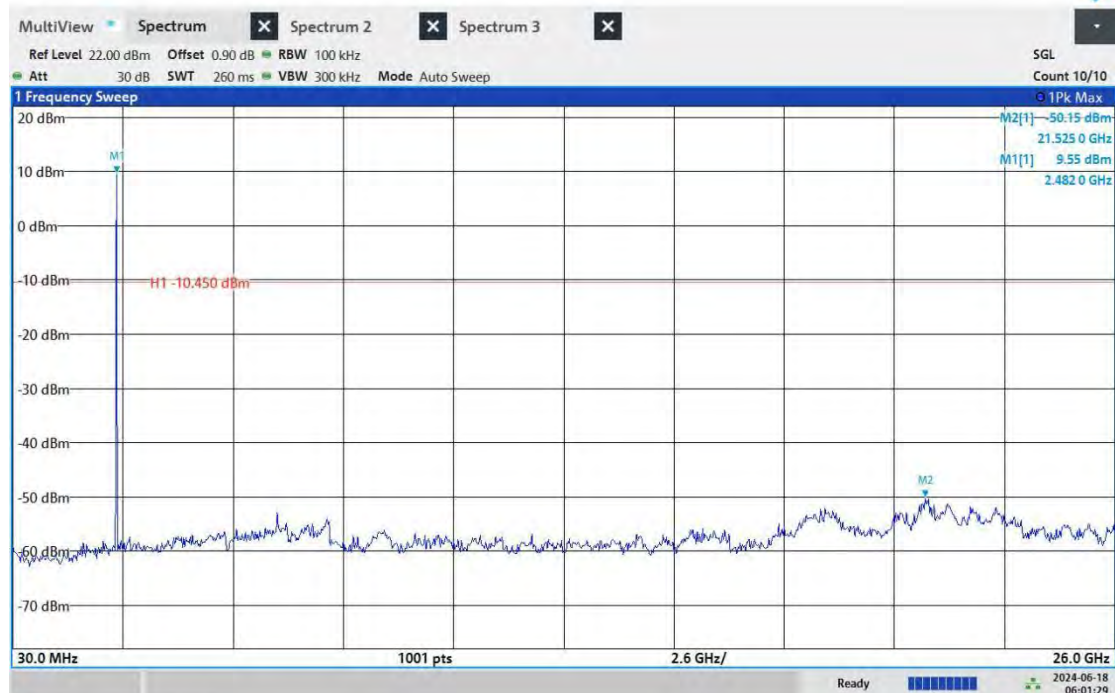
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant9	2402	30~26000	See test graph	See test graph	See test graph	PASS
		2441	30~26000	See test graph	See test graph	See test graph	PASS
		2480	30~26000	See test graph	See test graph	See test graph	PASS
2DH5	Ant9	2402	30~26000	See test graph	See test graph	See test graph	PASS
		2441	30~26000	See test graph	See test graph	See test graph	PASS
		2480	30~26000	See test graph	See test graph	See test graph	PASS
3DH5	Ant9	2402	30~26000	See test graph	See test graph	See test graph	PASS
		2441	30~26000	See test graph	See test graph	See test graph	PASS
		2480	30~26000	See test graph	See test graph	See test graph	PASS

Test Graphs



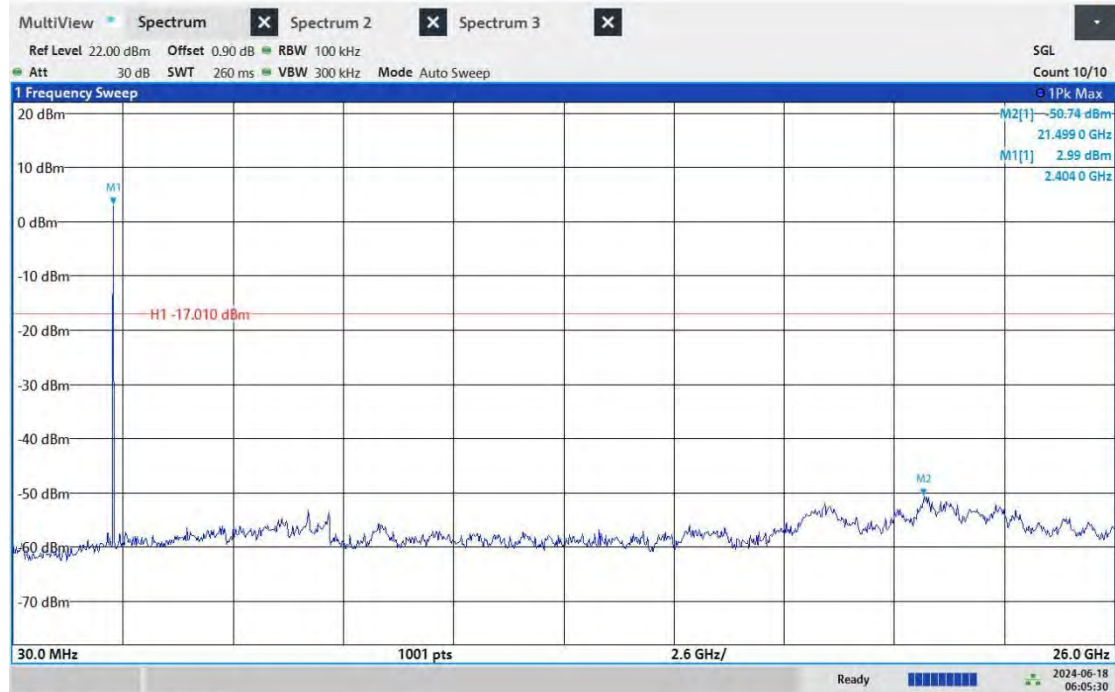


Reference No.: PSU-NQN2403180115RF01



06:01:30 AM 06/18/2024

2DH5_Ant9_2402_30~26000

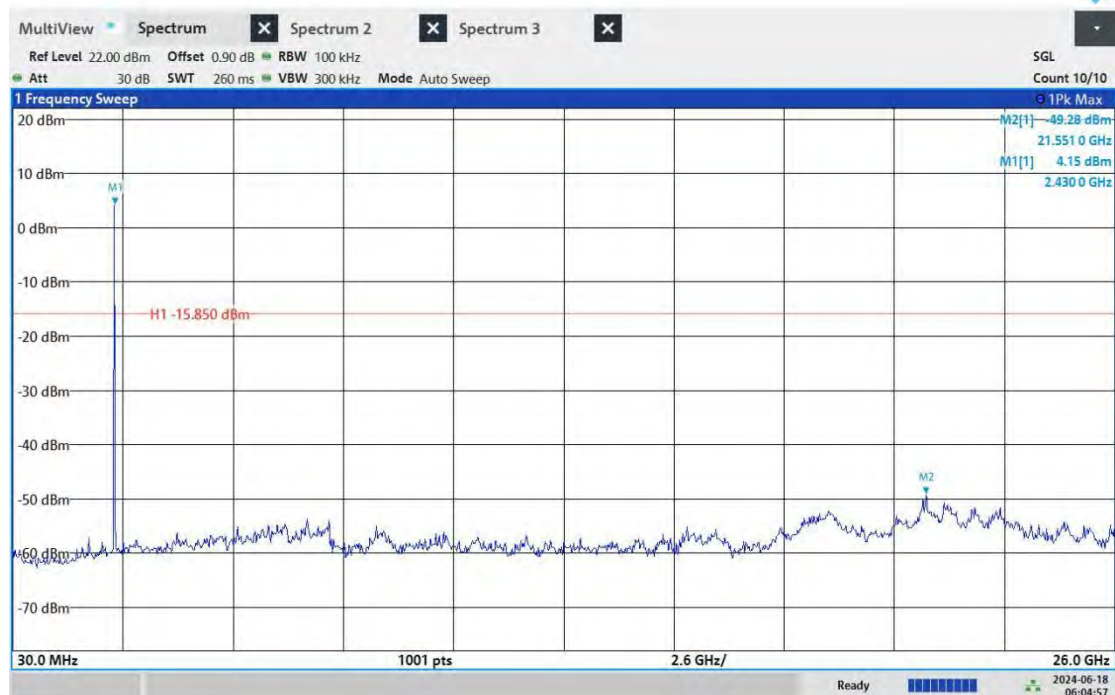


06:05:30 AM 06/18/2024

2DH5_Ant9_2441_30~26000

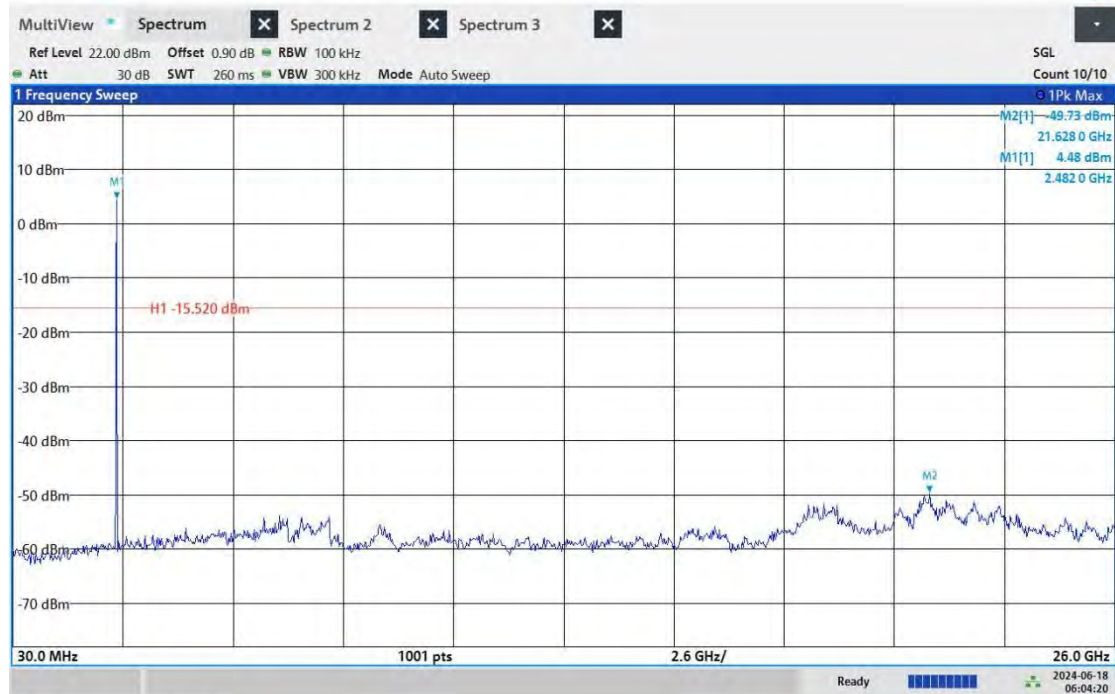


Reference No.: PSU-NQN2403180115RF01



06:04:57 AM 06/18/2024

2DH5 Ant9 2480 30~26000

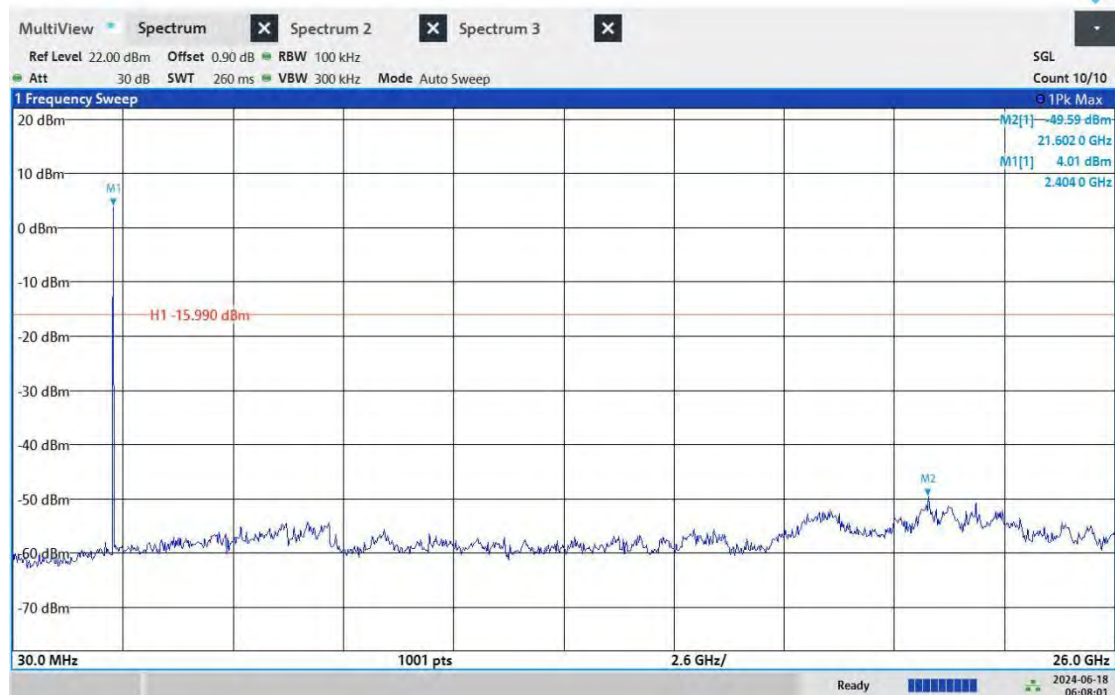


06:04:21 AM 06/18/2024

3DH5 Ant9 2402 30~26000

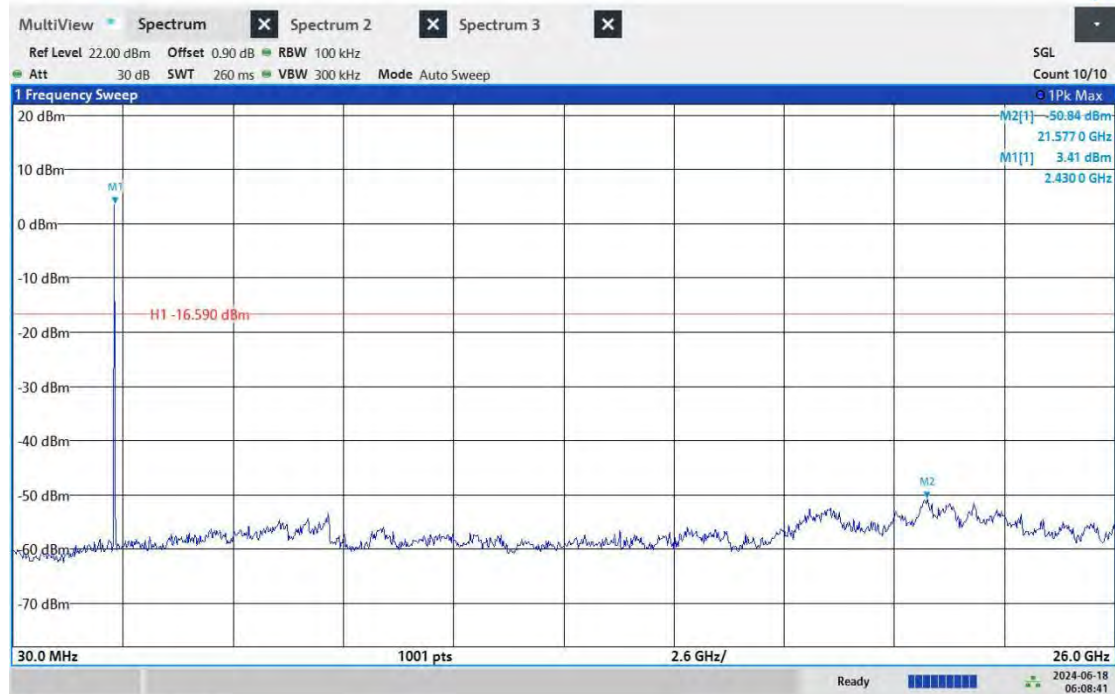


Reference No.: PSU-NQN2403180115RF01



06:08:01 AM 06/18/2024

3DH5_Ant9_2441_30~26000

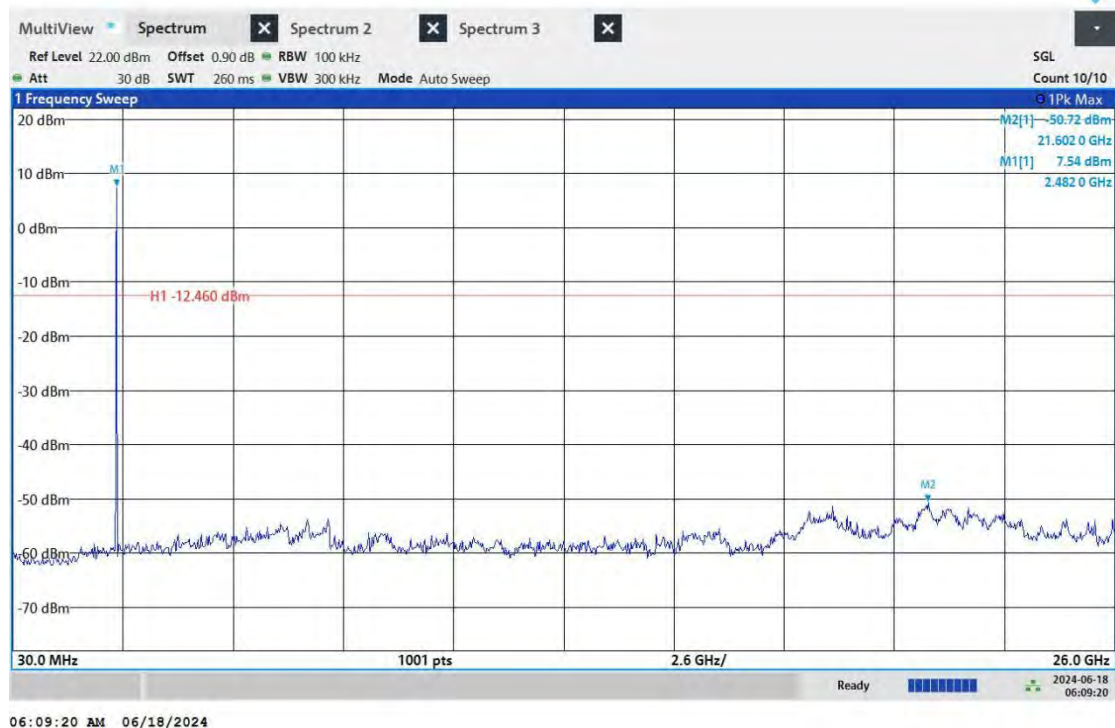


06:08:41 AM 06/18/2024

3DH5_Ant9_2480_30~26000



Reference No.: PSU-NQN2403180115RF01



RBW 100.000 kHz

VBW 300.000 kHz

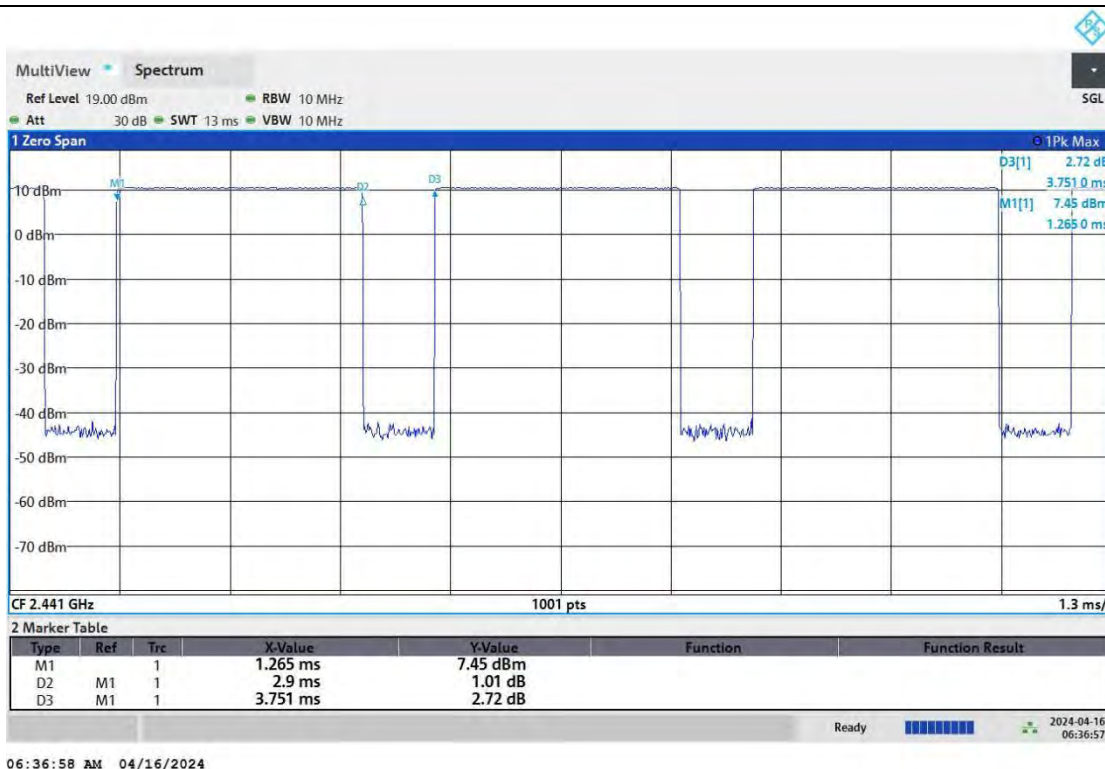


Reference No.: PSU-NQN2403180115RF01

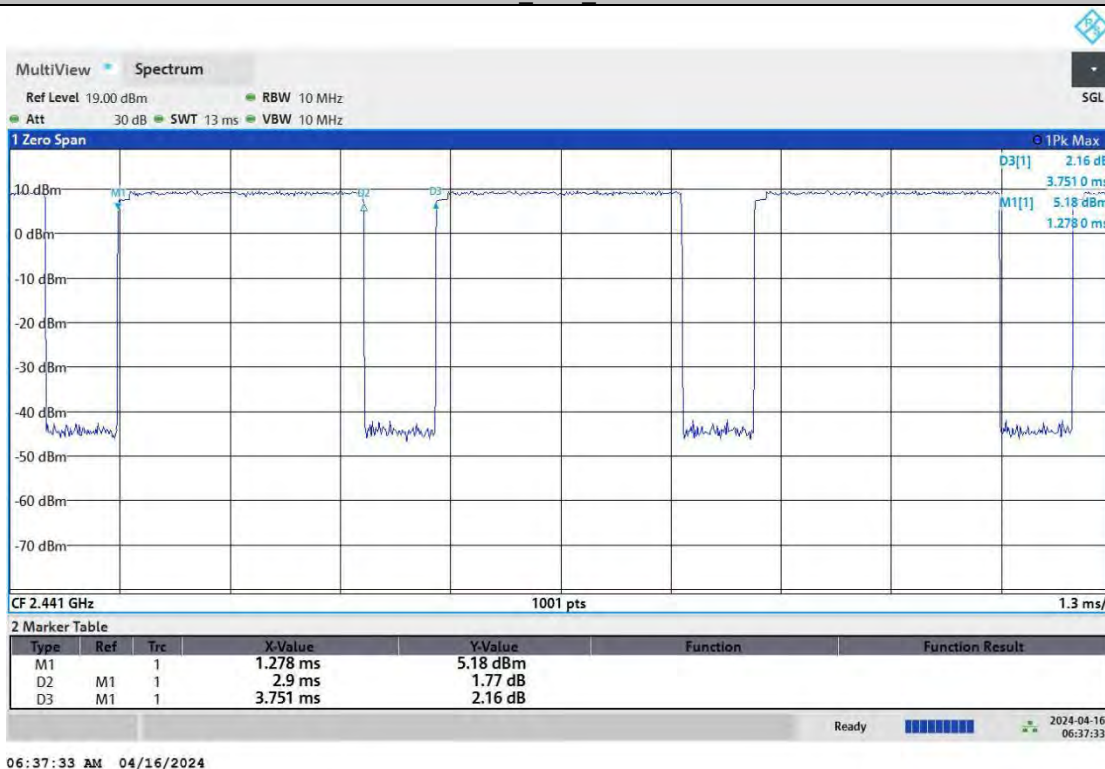
DUTY CYCLE TEST RESULT

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant9	2441	2.900	3.7510	0.7731	77.31%	1.12	---	PASS
2DH5	Ant9	2441	2.900	3.7510	0.7731	77.31%	1.12	---	PASS
3DH5	Ant9	2441	2.887	3.7510	0.7670	76.70%	1.15	---	PASS

TEST GRAPHS



DH5_Ant9_2402

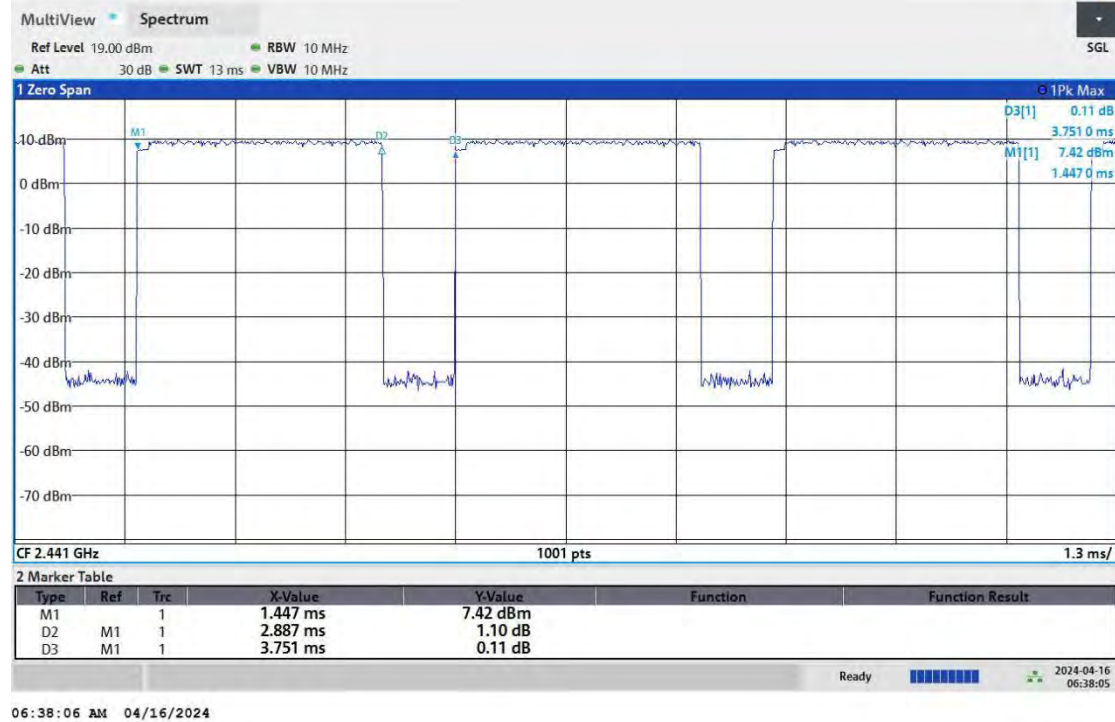


2DH5_Ant9_2402



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Reference No.: PSU-NQN2403180115RF01



3DH5_Ant9_2402



Reference No.: PSU-NQN2403180115RF01

BT(ANT 10):

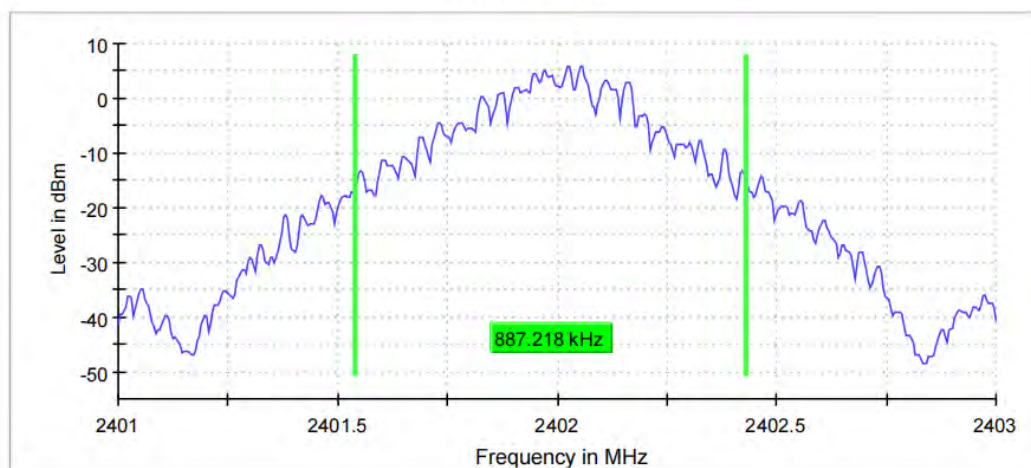
20DB EMISSION BANDWIDTH TEST RESULT

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant10	2402	0.887	2401.541	2402.429	---	PASS
		2441	0.887	2440.541	2441.429	---	PASS
		2480	0.887	2479.541	2480.429	---	PASS
2DH5	Ant10	2402	1.233	2401.386	2402.619	---	PASS
		2441	1.233	2440.386	2441.619	---	PASS
		2480	1.233	2479.386	2480.619	---	PASS
3DH5	Ant10	2402	1.233	2401.386	2402.619	---	PASS
		2441	1.218	2440.386	2441.604	---	PASS
		2480	1.228	2479.391	2480.619	---	PASS

TEST GRAPHS

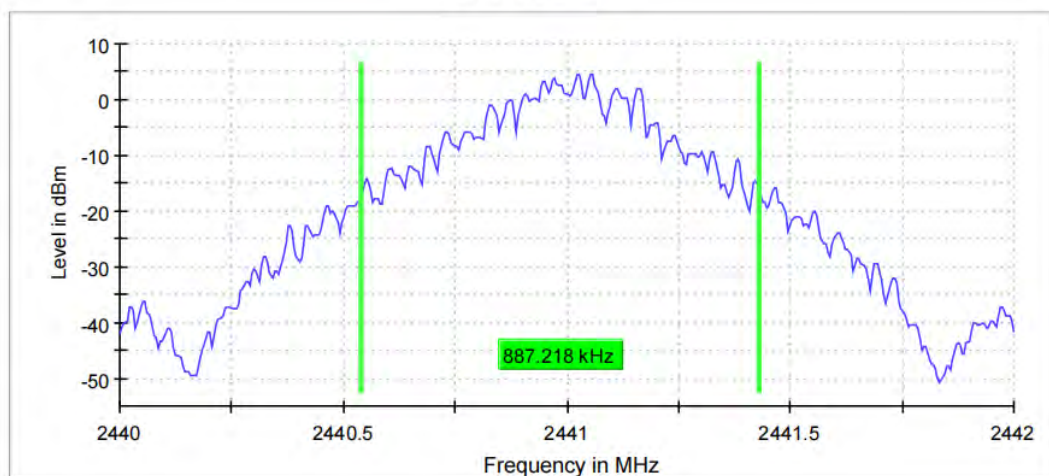
DH5_Ant10_2402

20 dB Bandwidth



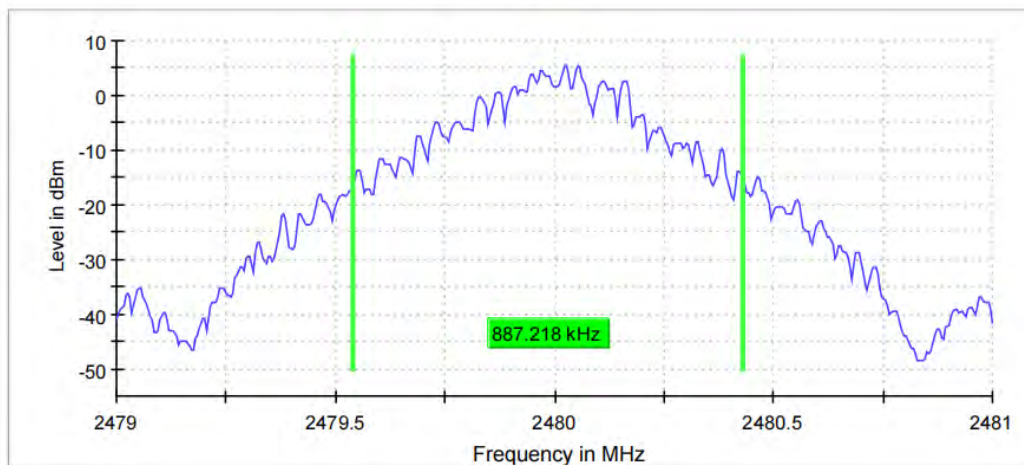
DH5_Ant10_2441

20 dB Bandwidth



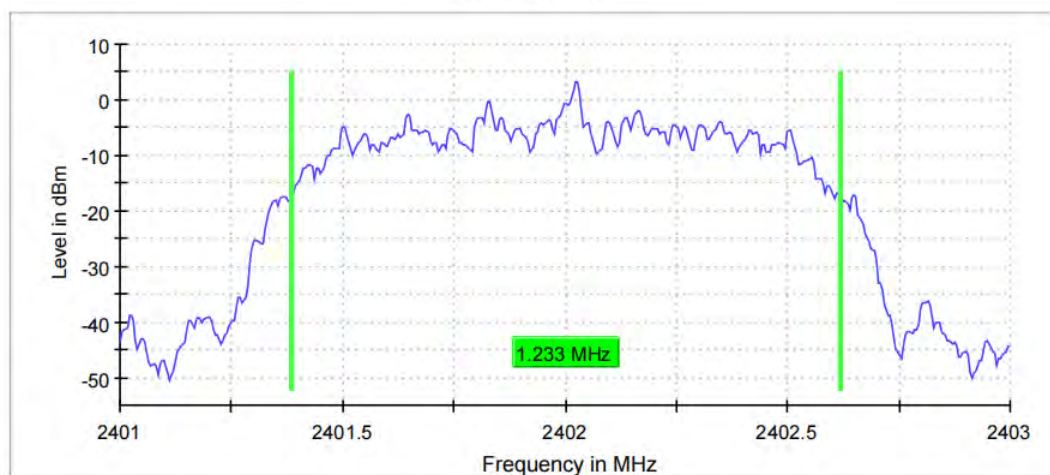
DH5_Ant10_2480

20 dB Bandwidth



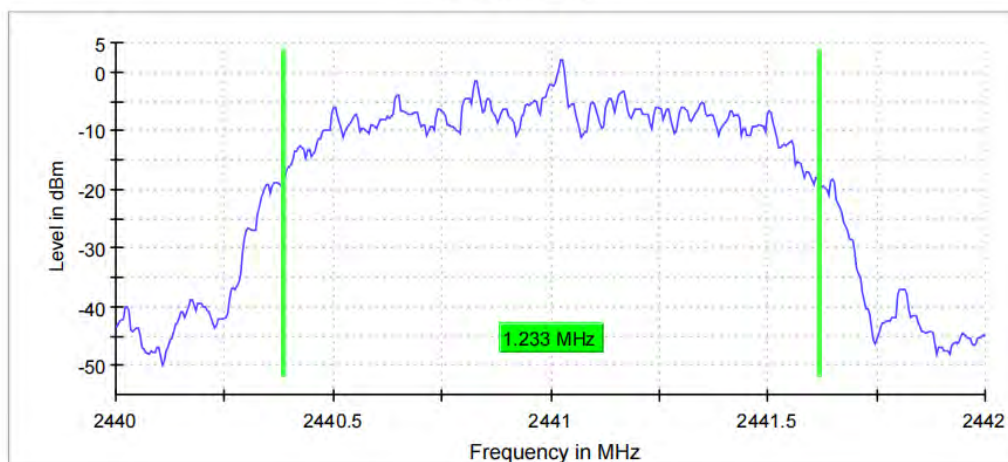
2DH5_Ant10_2402

20 dB Bandwidth



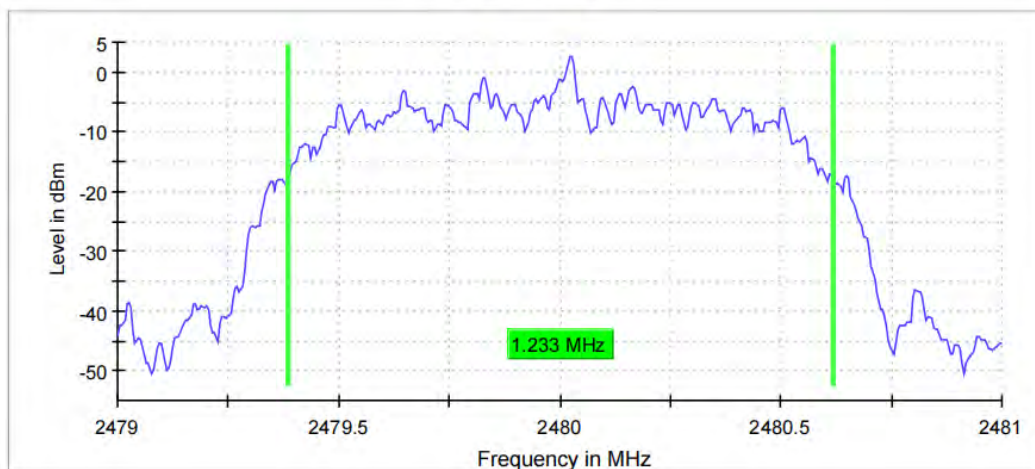
2DH5_Ant10_2441

20 dB Bandwidth



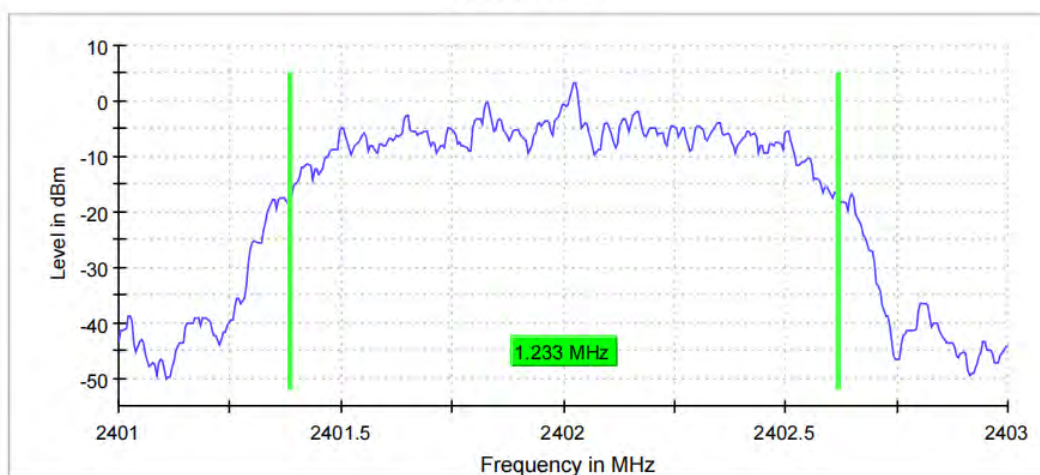
2DH5_Ant10_2480

20 dB Bandwidth



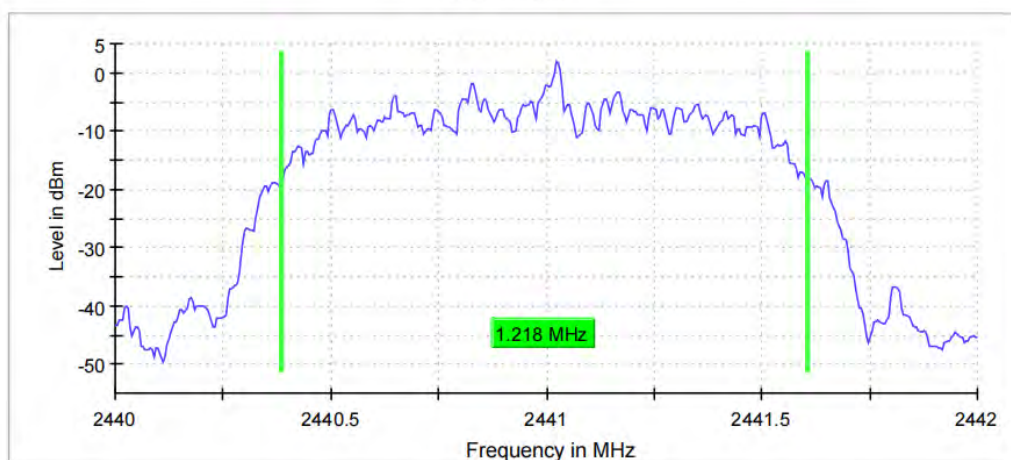
3DH5_Ant10_2402

20 dB Bandwidth



3DH5_Ant10_2441

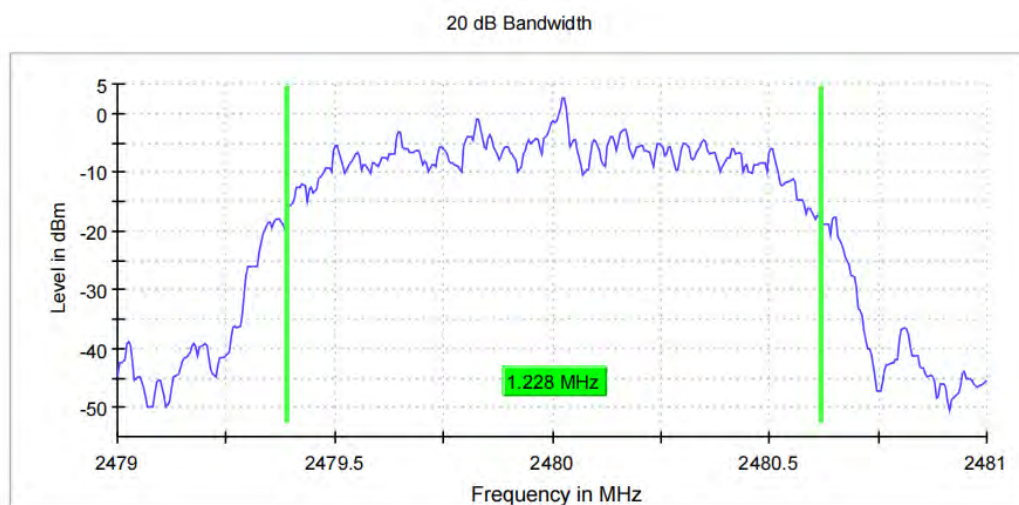
20 dB Bandwidth



3DH5_Ant10_2480



Reference No.: PSU-NQN2403180115RF01



RBW 10.000 kHz

VBW 30.000 kHz

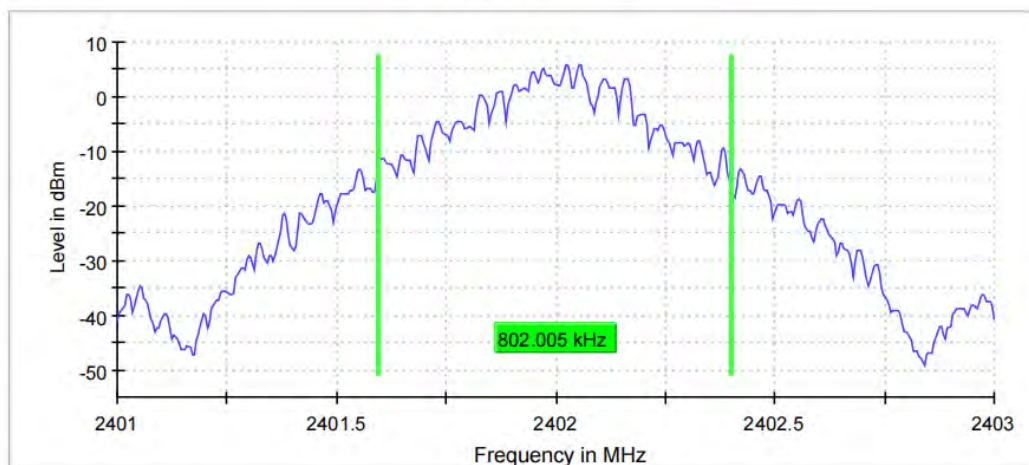
OCCUPIED CHANNEL BANDWIDTH TEST RESULT

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant10	2402	0.802	2401.596	2402.398	---	PASS
		2441	0.802	2440.596	2441.398	---	PASS
		2480	0.807	2479.591	2480.398	---	PASS
2DH5	Ant10	2402	1.168	2401.411	2402.579	---	PASS
		2441	1.168	2440.411	2441.579	---	PASS
		2480	1.168	2479.411	2480.579	---	PASS
3DH5	Ant10	2402	1.173	2401.411	2402.584	---	PASS
		2441	1.153	2440.416	2441.569	---	PASS
		2480	1.173	2479.411	2480.584	---	PASS

TEST GRAPHS

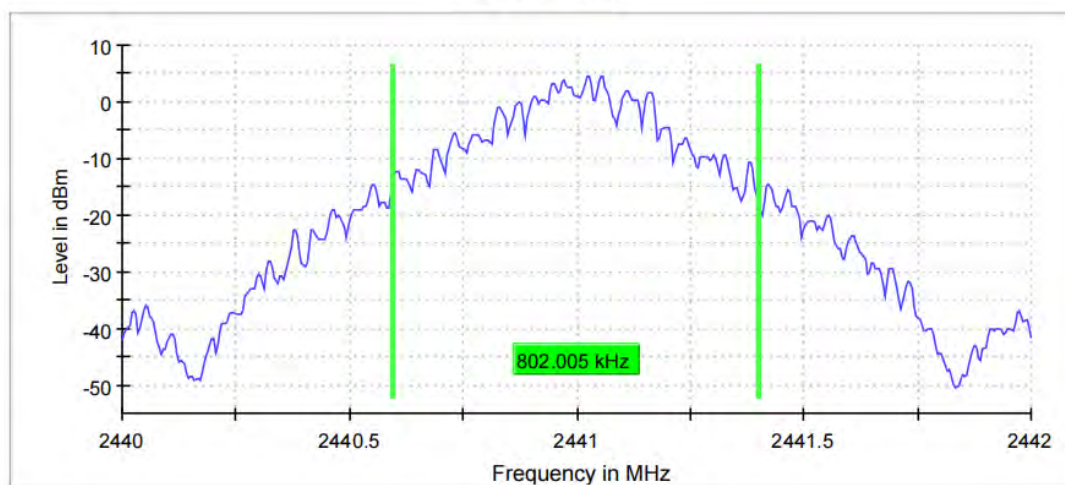
DH5_Ant10_2402

99 % Bandwidth



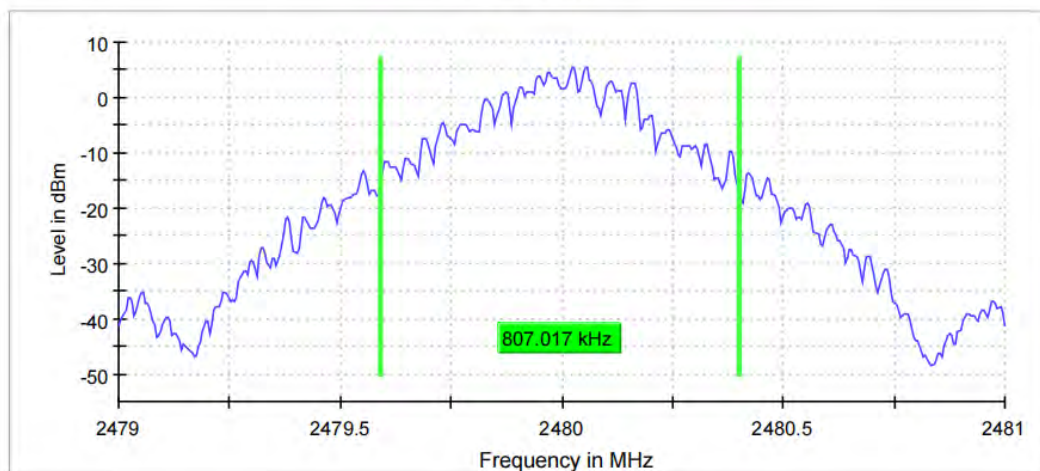
DH5_Ant10_2441

99 % Bandwidth



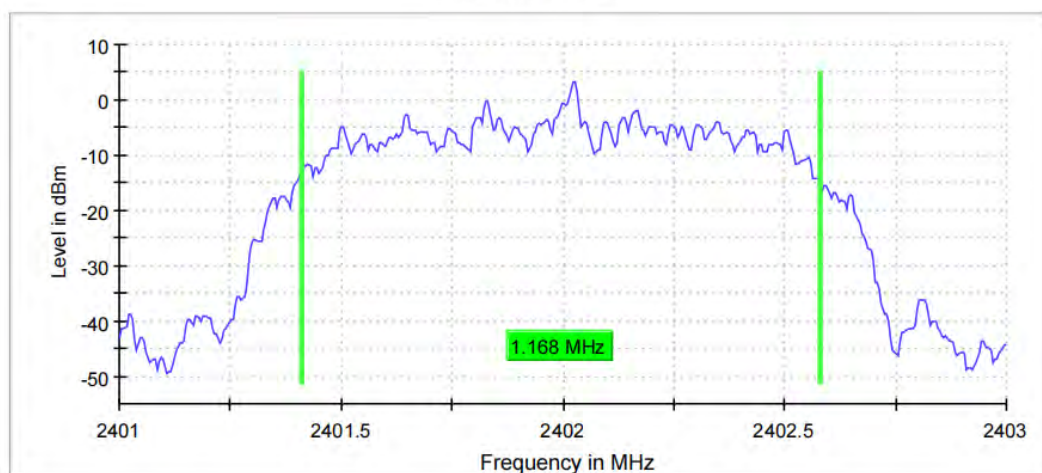
DH5_Ant10_2480

99 % Bandwidth



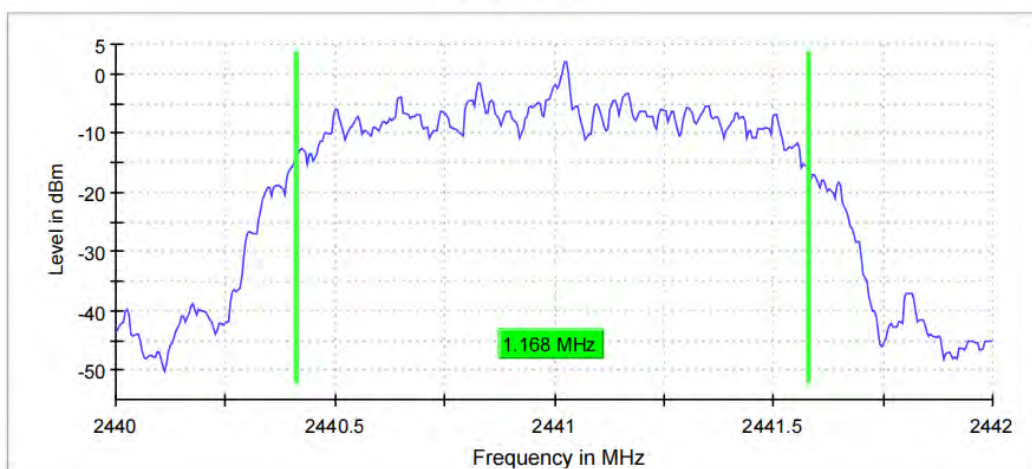
2DH5_Ant10_2402

99 % Bandwidth

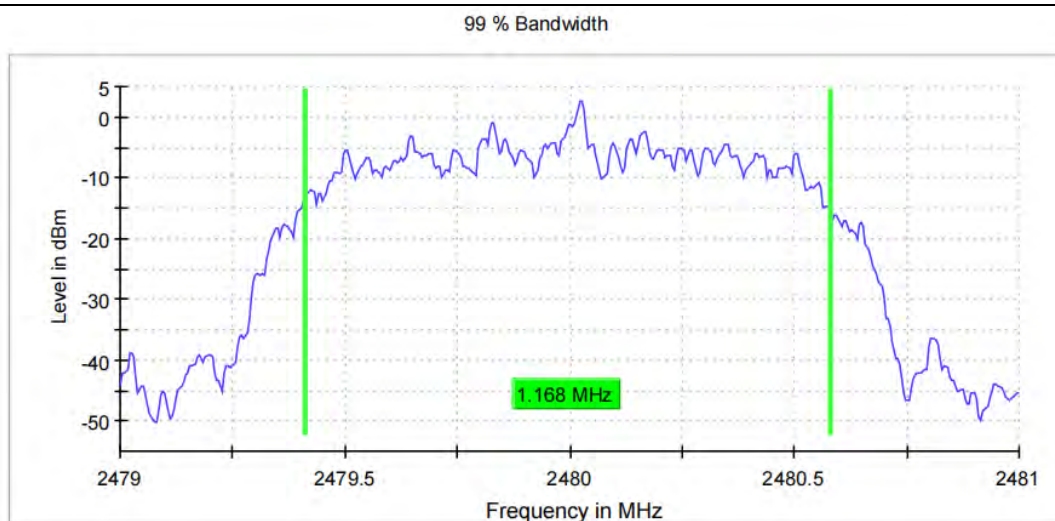


2DH5_Ant10_2441

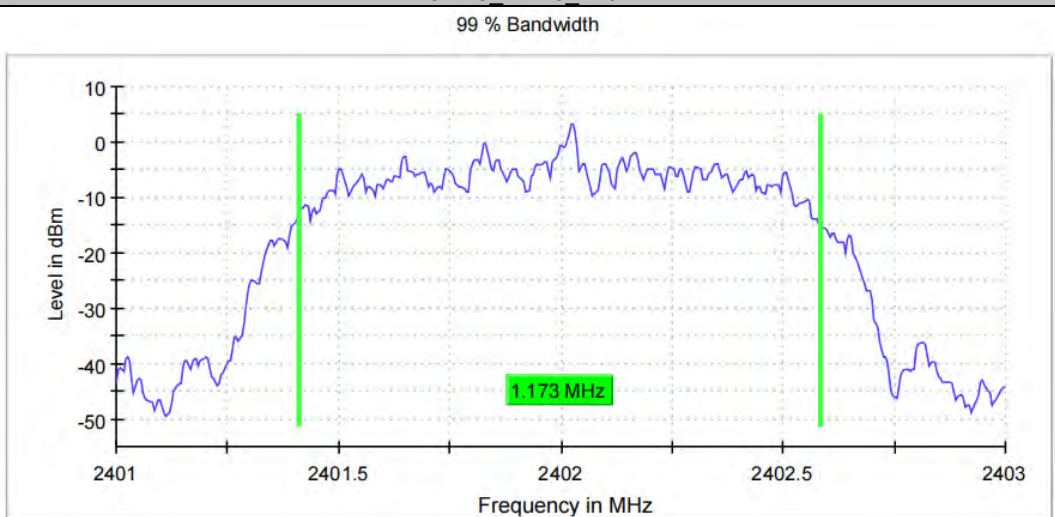
99 % Bandwidth



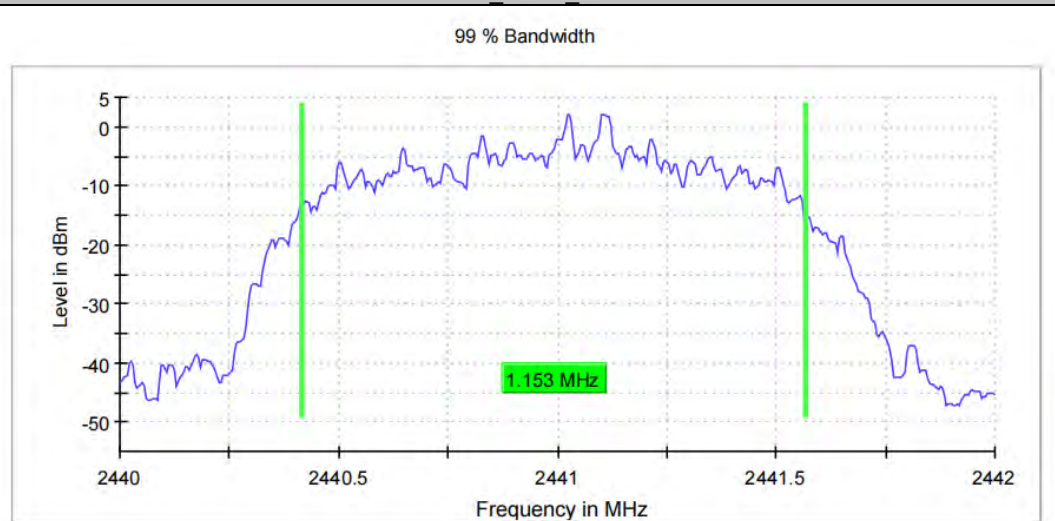
2DH5_Ant10_2480



3DH5_Ant10_2402

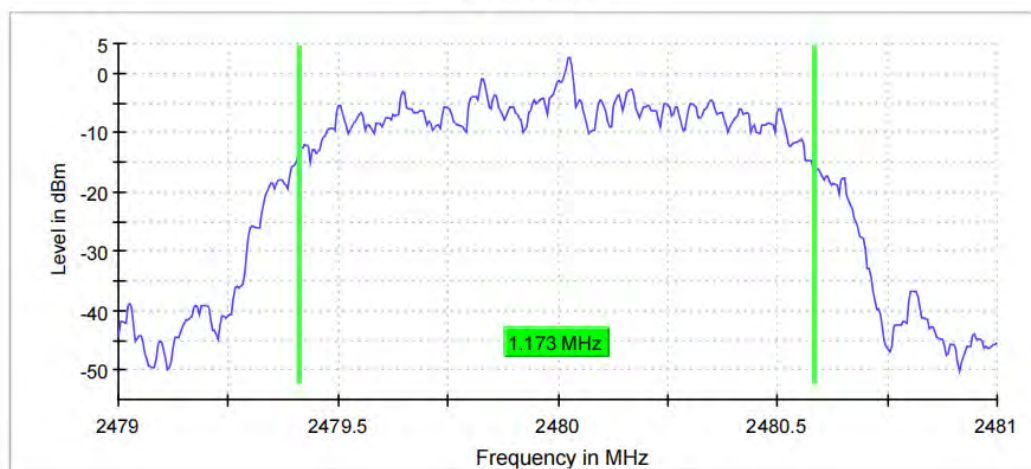


3DH5_Ant10_2441



3DH5_Ant10_2480

99 % Bandwidth



RBW 10.000 kHz

VBW 30.000 kHz

MAXIMUM CONDUCTED OUTPUT POWER TEST RESULT

TestMode	Antenna	Frequency [MHz]	Average power [dBm]	Peak Power [dBm]	Peak power [mw]	Conducted Limit [dBm]	Verdict	Power Setting
DH5	Ant10	2402	9.762	11.185	13.14	≤30.00	PASS	9
		2441	8.529	9.908	9.79	≤30.00	PASS	9
		2480	9.615	9.994	9.99	≤30.00	PASS	9
2DH5	Ant10	2402	6.333	10.197	10.46	≤30.00	PASS	9
		2441	4.853	8.837	7.65	≤30.00	PASS	9
		2480	6.138	10	10.00	≤30.00	PASS	9
3DH5	Ant10	2402	6.323	10.451	11.09	≤30.00	PASS	9
		2441	4.831	9.111	8.15	≤30.00	PASS	9
		2480	6.123	10.287	10.68	≤30.00	PASS	9
Note:EIRP=Peak Power+Gain								



Reference No.: PSU-NQN2403180115RF01

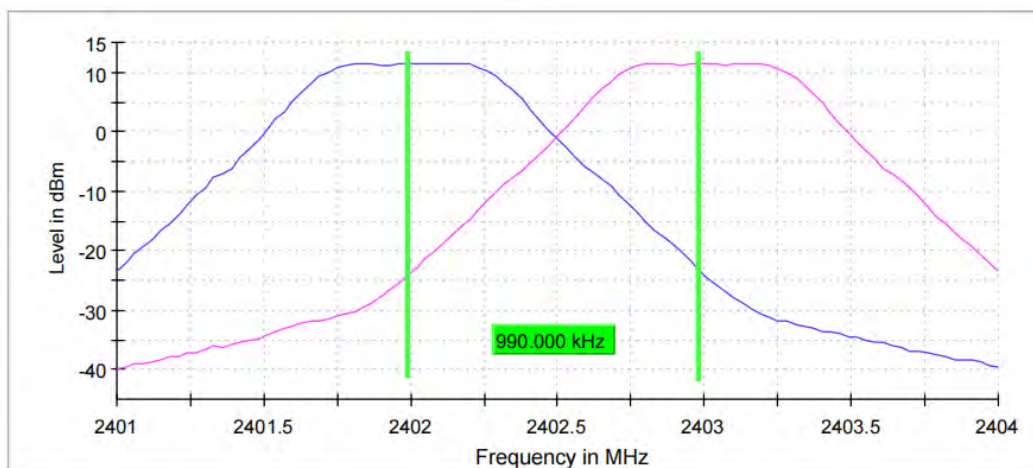
CARRIER FREQUENCY SEPARATION TEST RESULT

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant10	Hop	0.990	≥ 0.6321	PASS
2DH5	Ant10	Hop	0.990	≥ 0.8743	PASS
3DH5	Ant10	Hop	0.990	≥ 0.8636	PASS

TEST GRAPHS

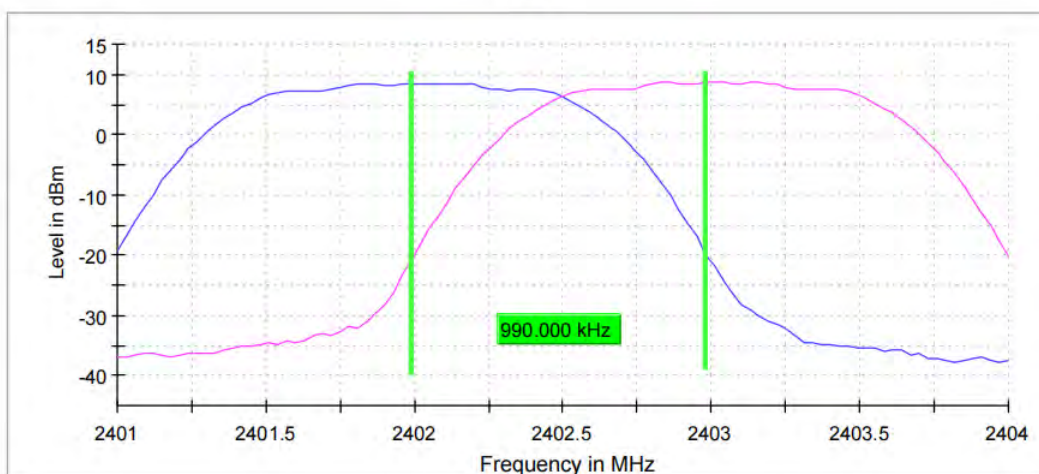
DH5_Ant10_Hop

CFS

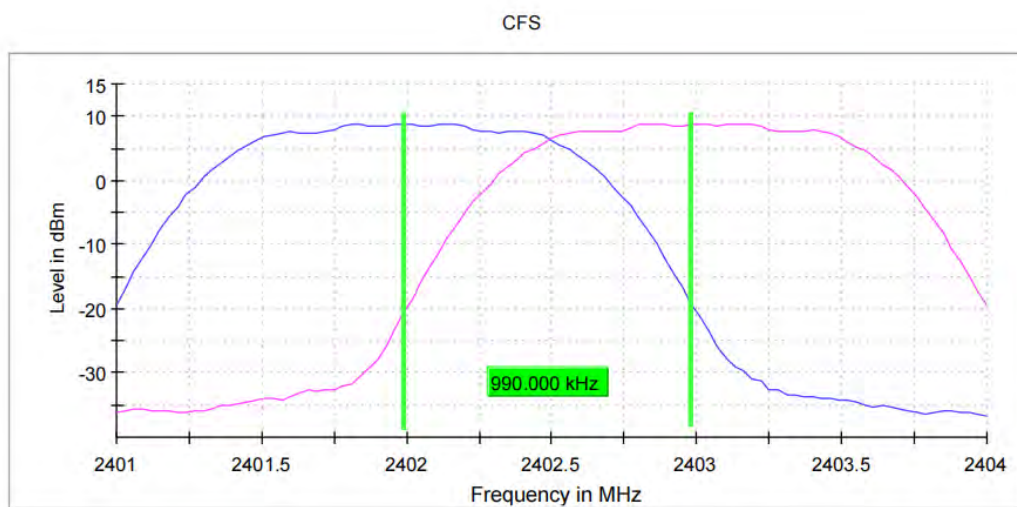


2DH5_Ant10_Hop

CFS



3DH5_Ant10_Hop



RBW 300.000 kHz

VBW 300.000 kHz



Reference No.: PSU-NQN2403180115RF01

TIME OF OCCUPANCY TEST RESULT

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[ms]	Limit[s]	Verdict
DH1	Ant10	Hop	0.376	285	107.160	≤0.4	PASS
DH3	Ant10	Hop	1.632	189	308.448	≤0.4	PASS
DH5	Ant10	Hop	2.880	124	357.120	≤0.4	PASS
2DH1	Ant10	Hop	0.368	293	107.824	≤0.4	PASS
2DH3	Ant10	Hop	1.632	178	290.496	≤0.4	PASS
2DH5	Ant10	Hop	2.880	131	377.280	≤0.4	PASS
3DH1	Ant10	Hop	0.376	293	110.168	≤0.4	PASS
3DH3	Ant10	Hop	1.632	181	295.392	≤0.4	PASS
3DH5	Ant10	Hop	2.880	131	377.280	≤0.4	PASS

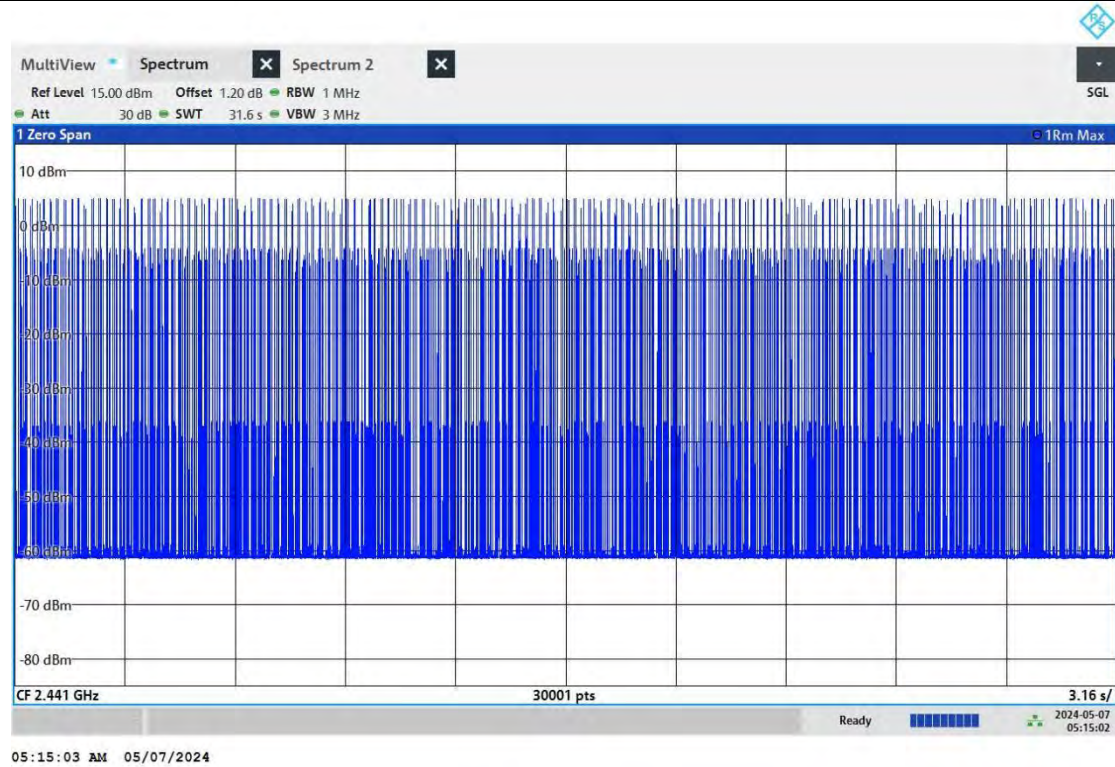


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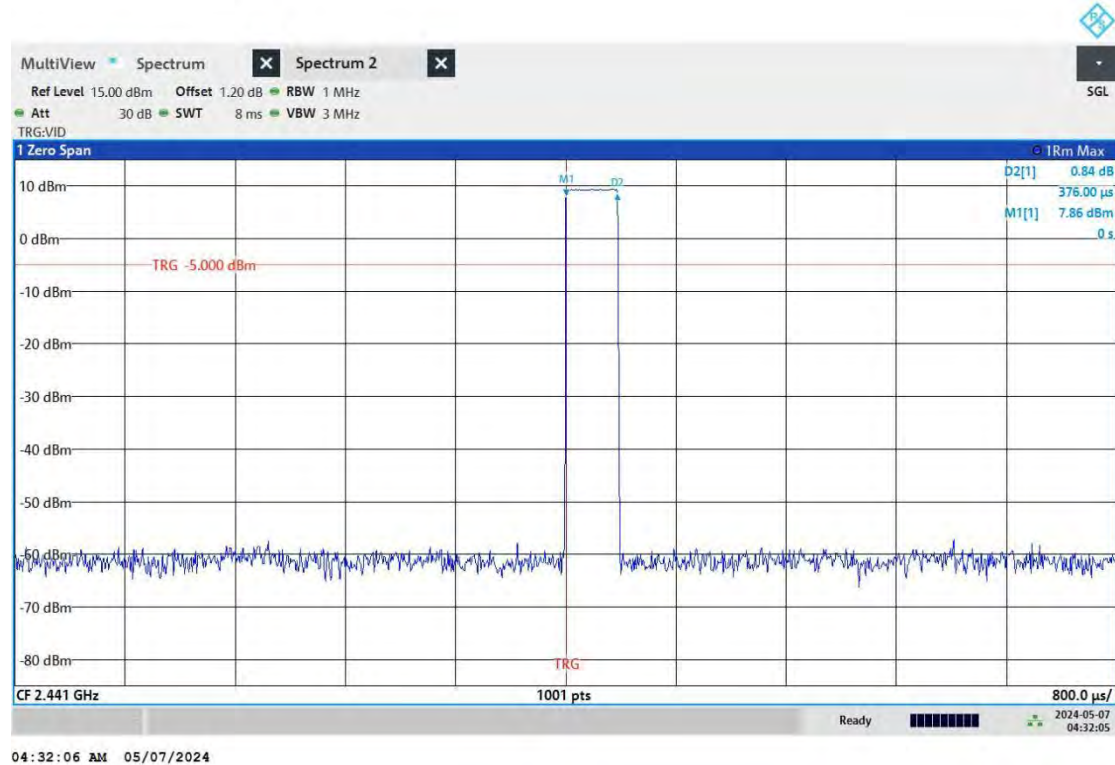
Reference No.: PSU-NQN2403180115RF01

Test Graphs

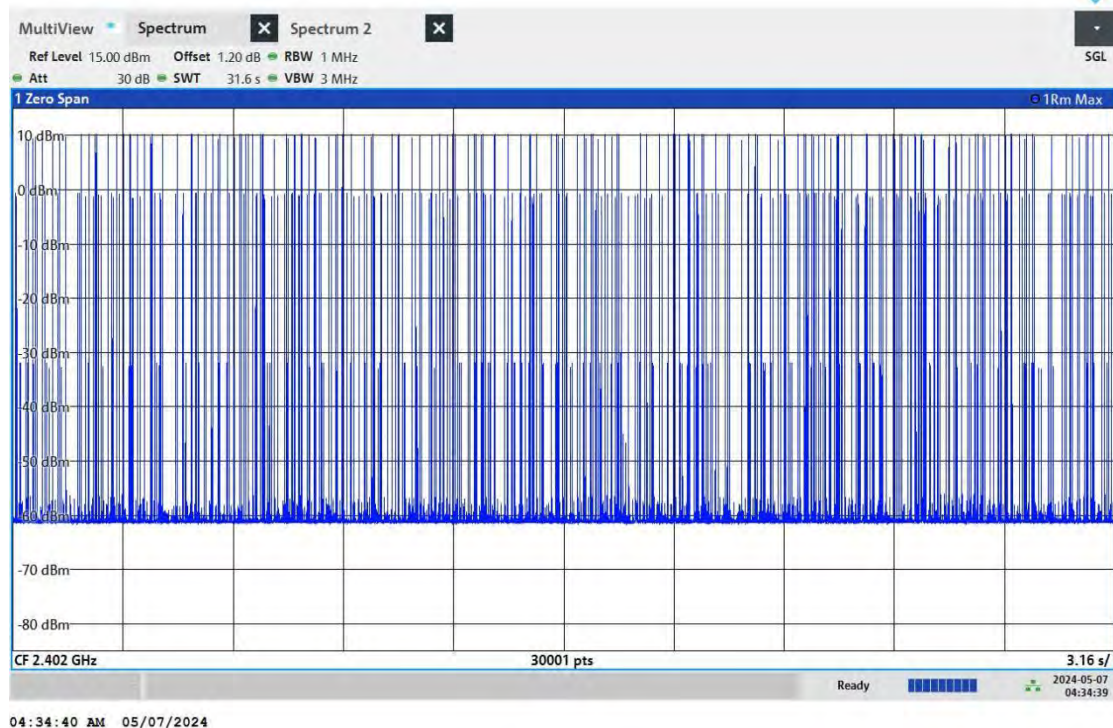
DH1_Ant10_Hop



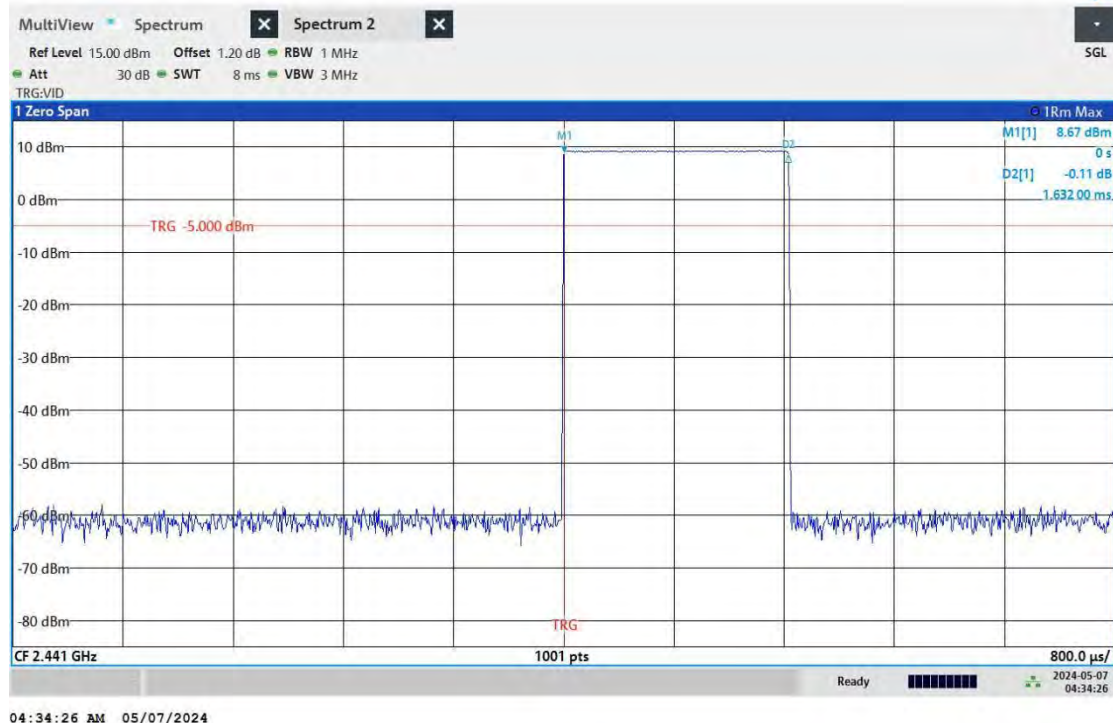
DH1_Ant10_Hop



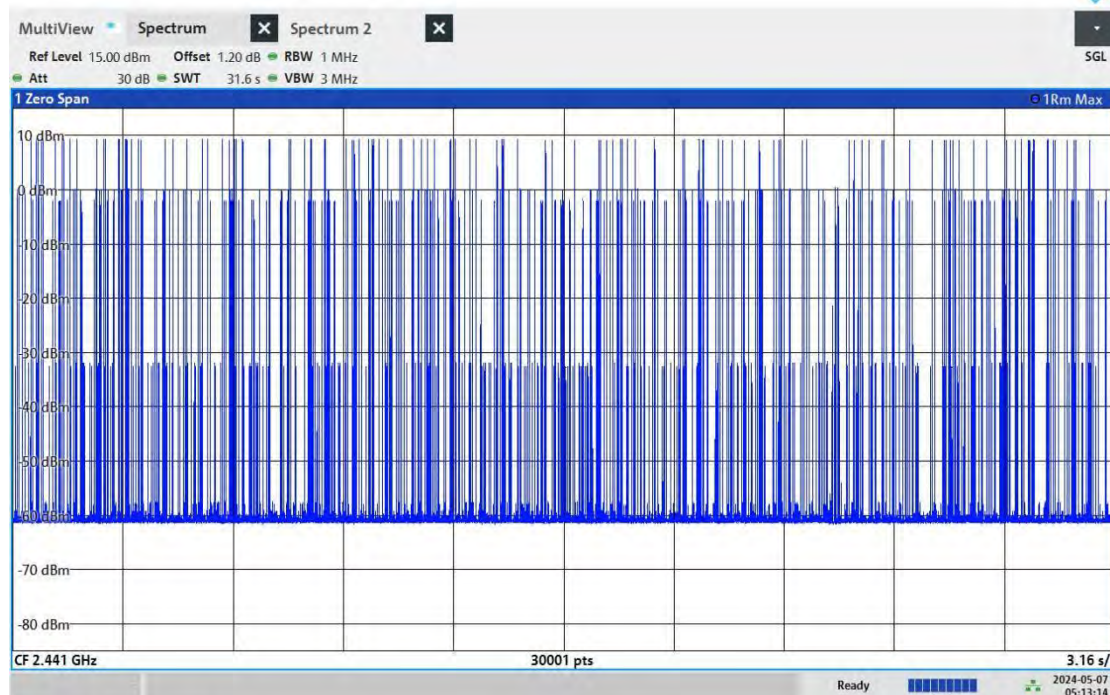
DH3_Ant10_Hop



DH3_Ant10_Hop

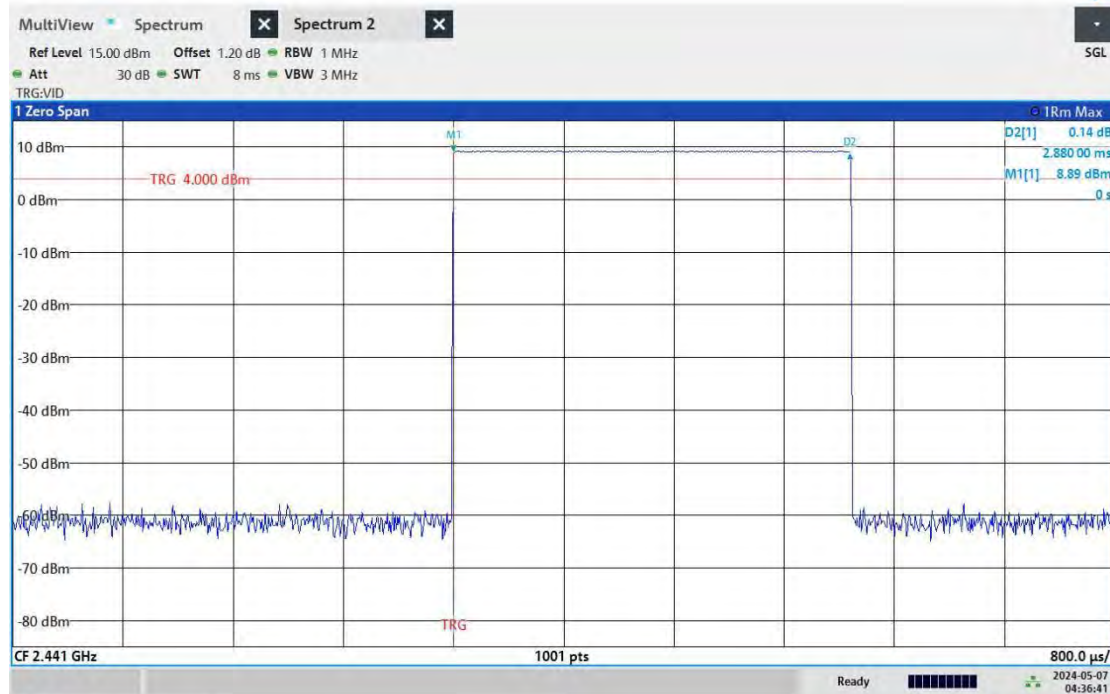


DH5_Ant10_Hop



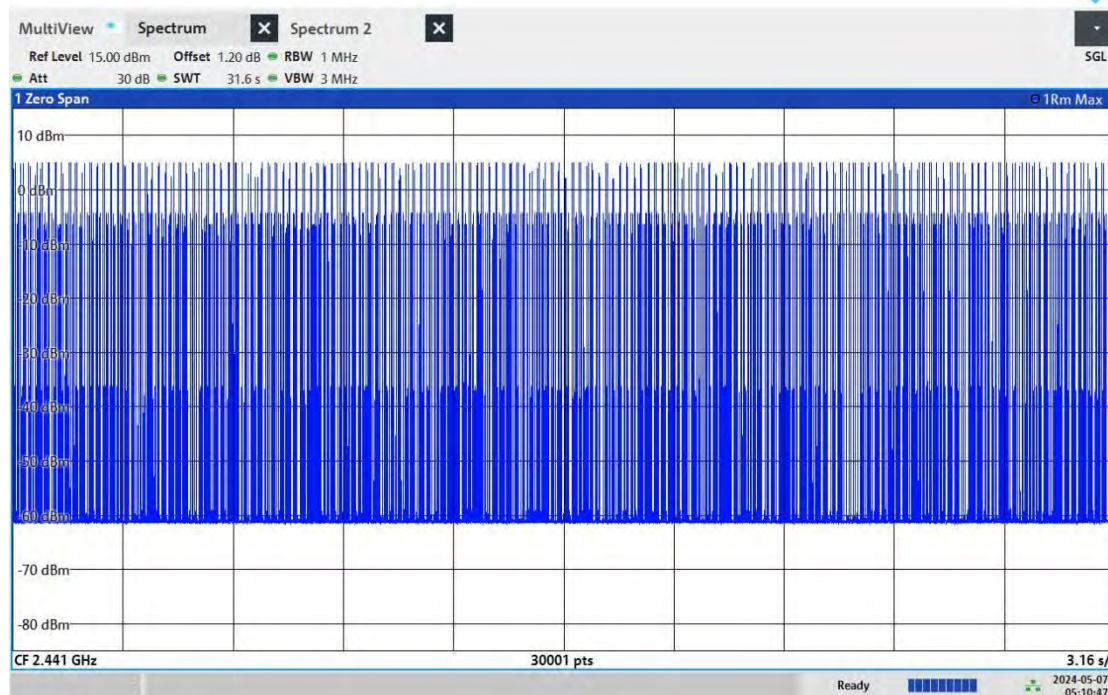
05:13:15 AM 05/07/2024

DH5_Ant10_Hop



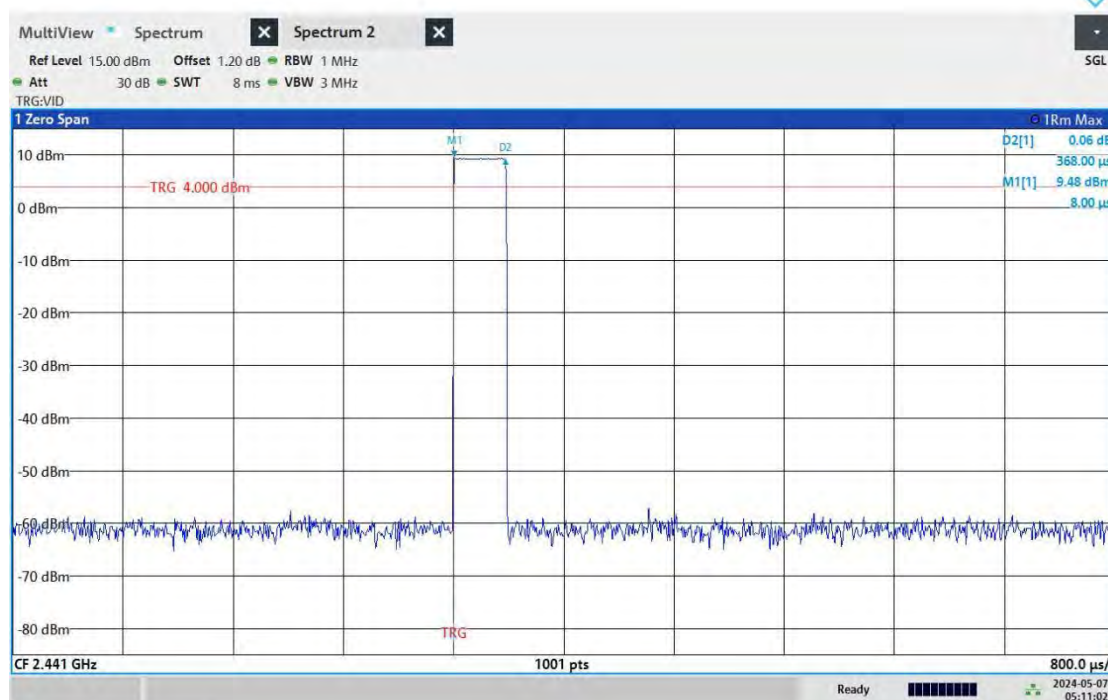
04:36:42 AM 05/07/2024

2DH1_Ant10_Hop



05:10:47 AM 05/07/2024

2DH1_Ant10_Hop



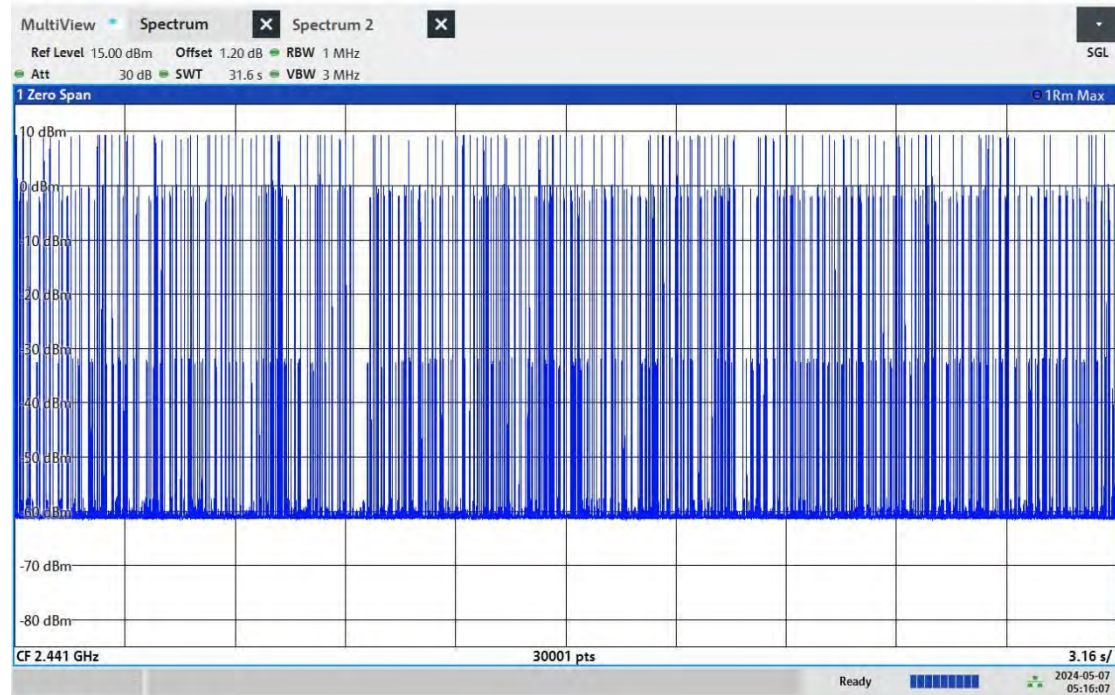
05:11:02 AM 05/07/2024

2DH3_Ant10_Hop



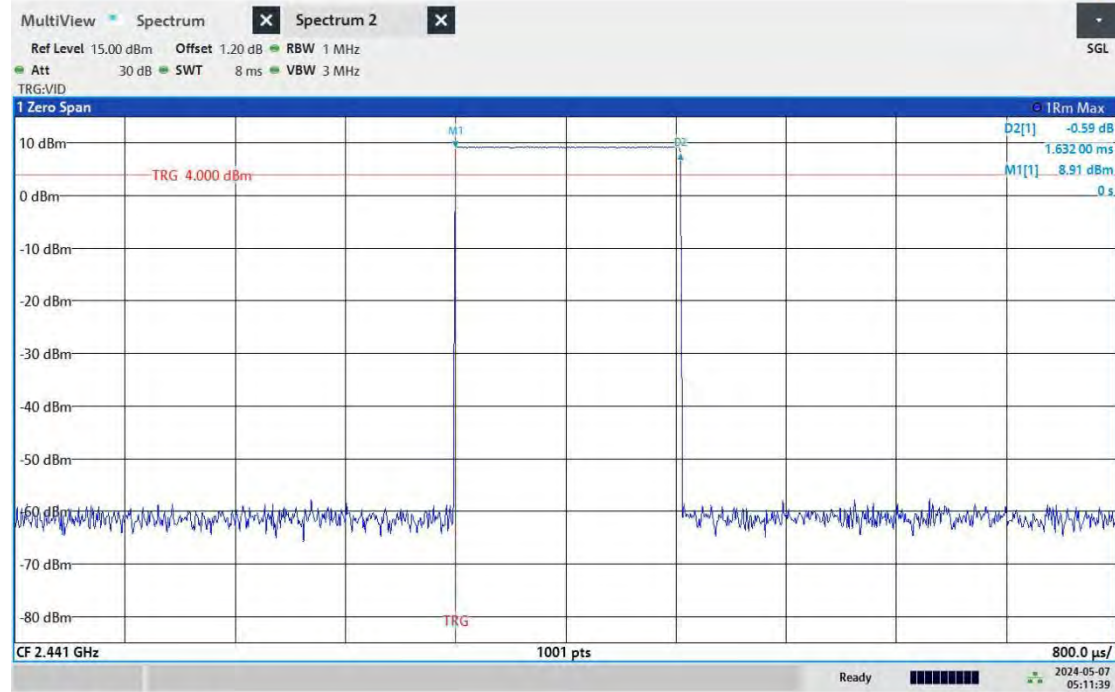
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Reference No.: PSU-NQN2403180115RF01



05:16:08 AM 05/07/2024

2DH3_Ant10_Hop



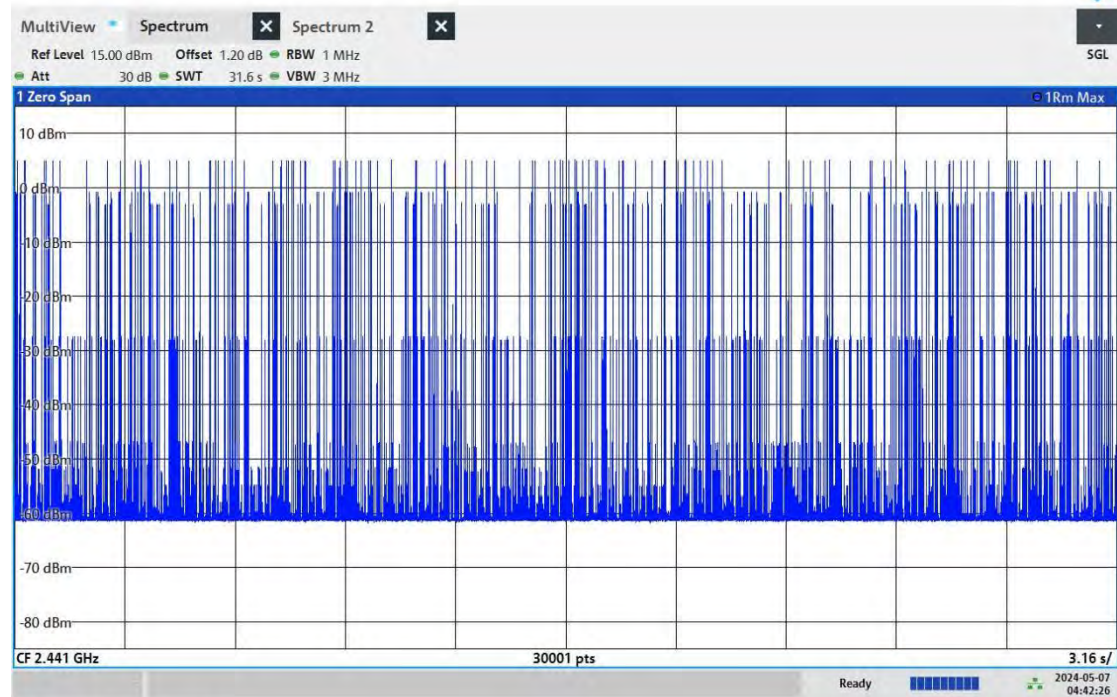
05:11:40 AM 05/07/2024

2DH5_Ant10_Hop



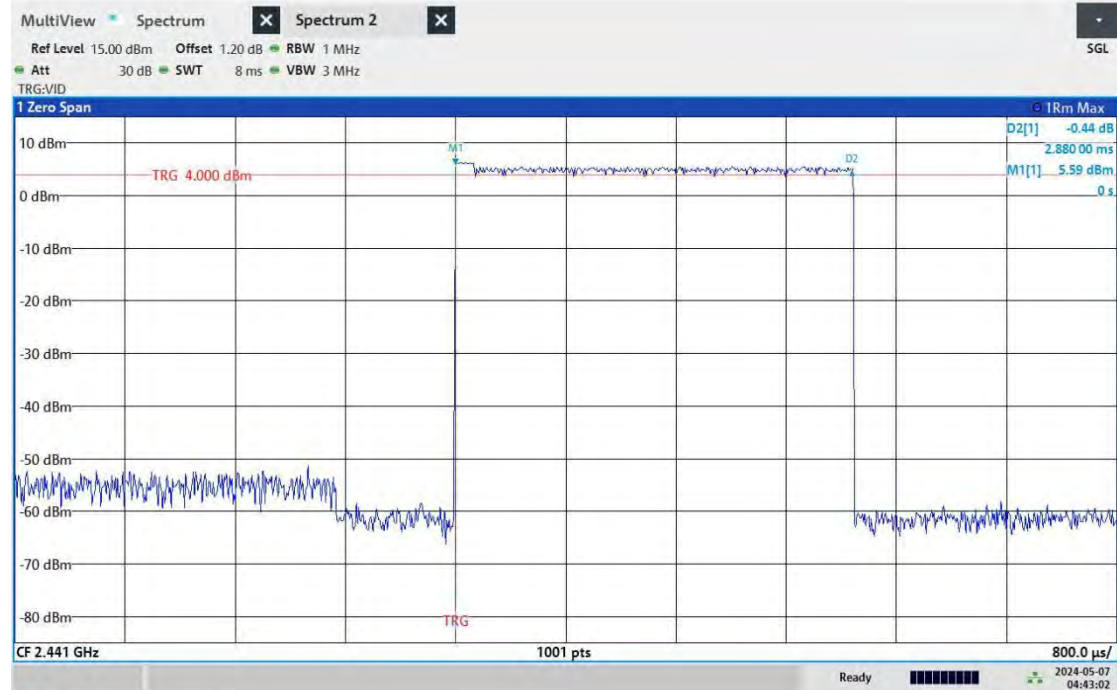
BUREAU
VERITAS

Reference No.: PSU-NQN2403180115RF01



04:42:26 AM 05/07/2024

2DH5_Ant10_Hop



04:43:02 AM 05/07/2024

3DH1_Ant10_Hop