

TEST REPORT

Applicant Name: JEM ACCESSORIES INC.
Address: 32 Brunswick Avenue, Edison, New Jersey, United States, 08817
Report Number: 2501S19432E-RF-00
FCC ID: 2AHAS-36011324

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: BT FM LED Transmitter
Model No.: WIABLK36011324
Multiple Model(s) No.: N/A
Trade Mark: N/A
Date Received: 2025/04/21
Issue Date: 2025/09/23

Test Result:	Pass▲
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▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Bruce Lin

Bruce Lin
RF Engineer

Approved By:

Michelle Zeng

Michelle Zeng
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501S19432E-RF-00	Original Report	2025/09/23

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	BT FM LED Transmitter
Tested Model	WIABLK36011324
Multiple Model(s)	N/A
Frequency Range	Bluetooth: 2402~2480MHz
Transmit Peak Power	-0.52 dBm
Modulation Technique	Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Specification [#]	-3dBi (provided by the applicant)
Voltage Range	DC 12V/24V from car charger
Sample serial number	31JM-1 for Radiated Emissions Test 31JM-2 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Dwell Time		±1%(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1°C
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
2	2404	42	2444
...	...	...	...
...	...	...	...
36	2438	75	2477
37	2439	76	2478
38	2440	77	2479
39	2441	78	2480

EUT was tested with Channel 0, 39 and 78.

EUT Exercise Software

“FCC.assist 1.0.2.2.exe”[#] exercise software was used and the power level is 10[#]. The software and power level was provided by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

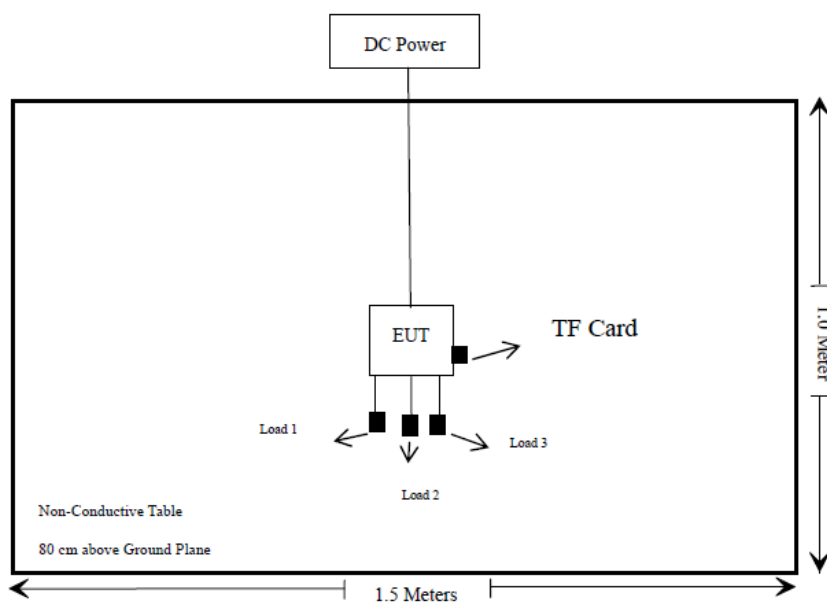
Manufacturer	Description	Model	Serial Number
instek	DC Power Supply	GPS-3030DD	EM832096
BACL	Load1	Unknown	Unknown
BACL	Load2	Unknown	Unknown
BACL	Load3	Unknown	Unknown
SANSUNG	TF Card	MBMJ32G	KPPLP65BA809

External I/O Cable

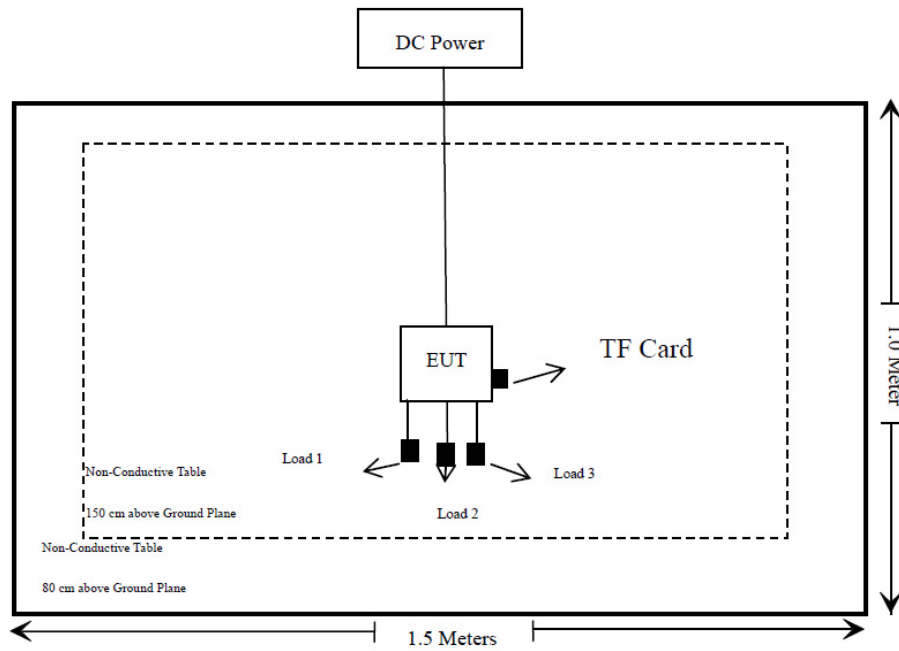
Cable Description	Length (m)	From Port	To
Unshielded detachable USB cable	0.2	EUT	Load1
Unshielded detachable USB cable	0.2	EUT	Load2
Unshielded detachable USB cable	0.2	EUT	Load3
Unshielded detachable DC cable	2	EUT	DC Power

Block Diagram of Test Setup

For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
FCC §2.1091	MPE-Based Exemption	Compliant
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Not Applicable
FCC §15.205, §15.209, §15.247(d)	Radiated Emissions	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth	Compliant
FCC §15.247(a)(1)	Channel Separation Test	Compliant
FCC §15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
FCC §15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
FCC §15.247(b)(1)	Peak Output Power Measurement	Compliant
FCC §15.247(d)	Band edges	Compliant
FCC §15.247(d)	Conducted Spurious Emission	Compliant

Not Applicable: This device is used in-vehicle environment

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Unknown	Cable	Chamber Cable 1	F-03-EM236	2024/06/18	2025/06/17
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	2Y194	0735	2024/12/04	2025/12/03
Unknown	Cable	PNG214	1354	2024/12/04	2025/12/03
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2025/03/26	2026/03/25
A.H.System	Preamplifier	PAM-0118P	489	2024/11/15	2025/11/14
Unknown	RF Cable	KMSE	0735	2024/12/06	2025/12/05
Unknown	RF Cable	UFA147	219661	2024/12/06	2025/12/05
Unknown	RF Cable	XH750A-N	J-10M	2024/12/06	2025/12/05
JD	Filter Switch Unit	DT7220FSU	DS79906	2024/09/09	2025/09/08
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2024/09/09	2025/09/08
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
UTIFLEX	RF Cable	NO. 13	232308-001	2024/12/18	2025/12/17
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
RF Conducted Test					
Tonscend	RF control Unit	JS0806-2	19D8060154	2024/08/06	2025/08/05
Tonscend	RF control Unit	JS0806-2	19D8060154	2025/07/18	2026/07/17
Rohde & Schwarz	Spectrum Analyzer	FSV40	101473	2024/12/04	2025/12/03
Unknown	10dB Attenuator	Unknown	F-03-EM190	2024/06/27	2025/06/26
Unknown	10dB Attenuator	Unknown	F-03-EM190	2025/06/26	2026/06/25

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC 1.1307 (B) & §2.1091- MPE-BASED EXEMPTION

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 v01 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

R is the minimum separation distance in meters

f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Result

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (m)	ERP Limit (W)
			(dBi)	(dBd)	(dBm)	(W)		
BT	2402-2480	0.50	-3	-5.15	-4.65	0.00034277	0.2	0.768

Note: The tune up conducted power[#] and antenna gain[#] were declared and provided by the applicant.

Mode	Frequency (MHz)	Maximum E-Field (dBuV/m@3m)	Maximum EIRP (dBm)	Tune up EIRP (dBm)	ERP		Evaluation Distance (m)	ERP Limit (W)
					(dBm)	(W)		
FM	88.1-107.9	57.82	-37.38	-37.00	-39.15	0.00000012	0.2	0.153

Note:
The Tune up EIRP [#] was declared and provided by the applicant.
EIRP = E-Field – 95.2 @3m, ERP=EIRP-2.15

Simultaneous transmitting consideration (worst case):

The FM and BLE can transmit simultaneously,

The ratio= $ERP_{BT}/limit + ERP_{FM}/limit = 0.00034277/0.768 + 0.00000012/0.153 = 0.000447 < 1.0$

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached, the antenna gain[#] is -3dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant

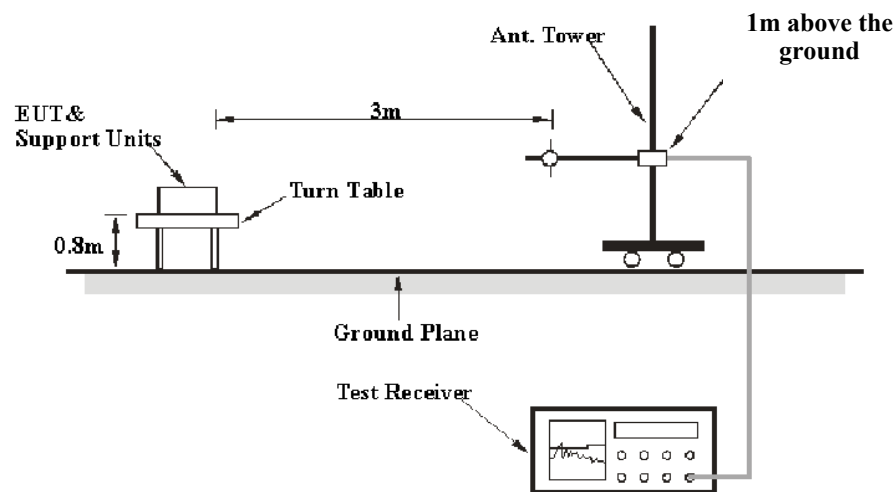
FCC §15.205, §15.209 & §15.247(d) - RADIATED EMISSIONS

Applicable Standard

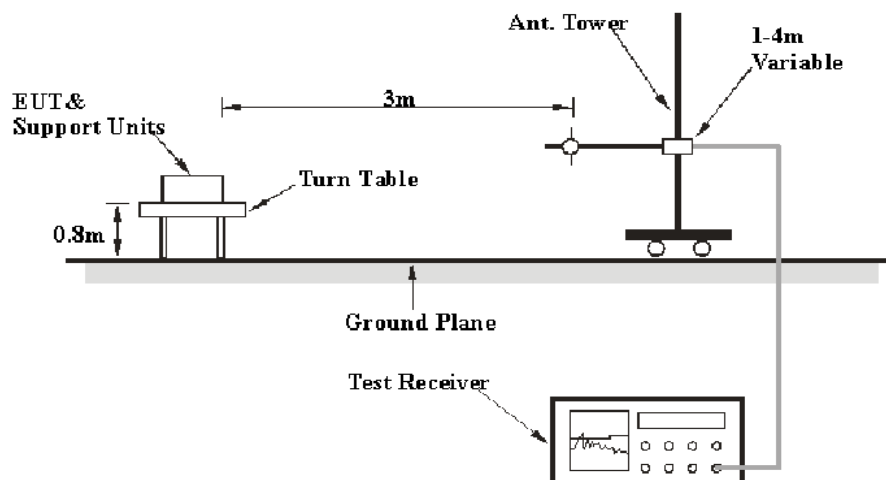
FCC §15.205; §15.209; §15.247(d)

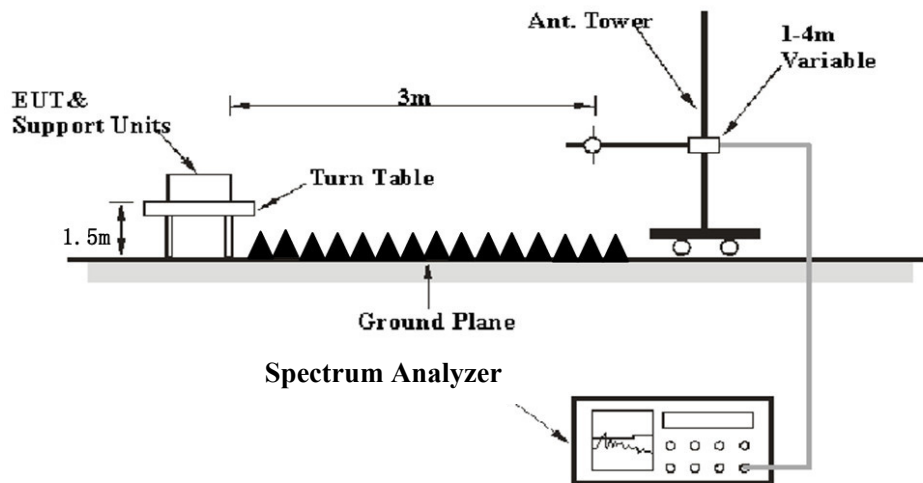
EUT Setup

9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	Peak
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	Peak
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	100 kHz	300 kHz	/	PK	Peak
Above 1 GHz	Harmonics				
	1MHz	3 MHz	/	PK	Peak
	Average Emission Level=Peak Emission Level+20*log(Duty cycle)				
	Band Edge & Other Emissions				
	1MHz	3 MHz	/	PK	Peak
	1MHz	≥10 Hz	/	Average	Peak

For Duty cycle measurement:

Use the duty cycle factor correction factor method per 15.35(c).

Duty cycle=On time/100milliseconds, On time= $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$,

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulse, etc.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

All emissions under the average limit and under the noise floor have not recorded in the report.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level/Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

Environmental Conditions

Temperature:	20.2~25.5 °C
Relative Humidity:	48~53 %
ATM Pressure:	100.9~101.5 kPa

The testing was performed by Alex Yan on 2025-05-11 for below 1GHz and Visen Wu on 2025-04-28 for above 1GHz.

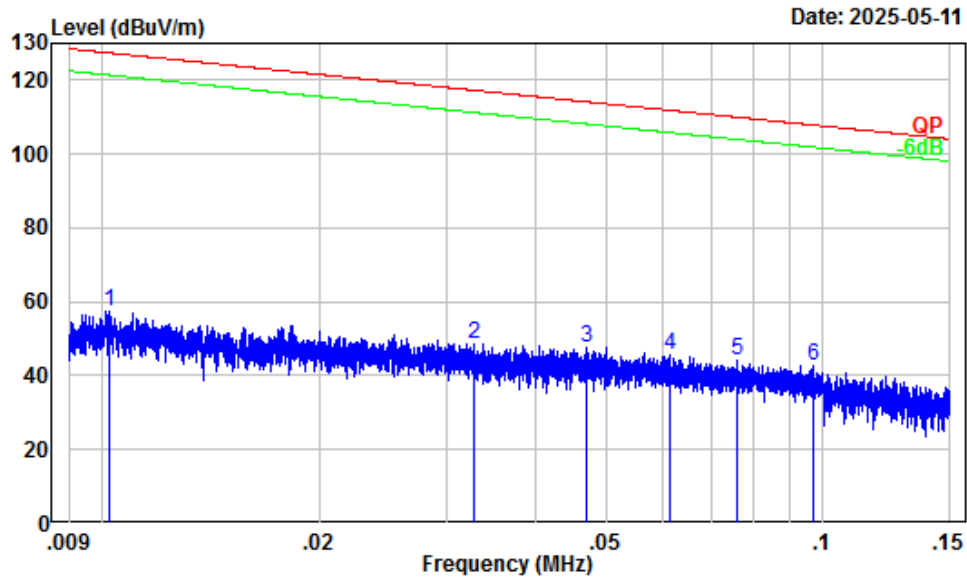
Test mode: Transmitting

Note: After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded.

Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

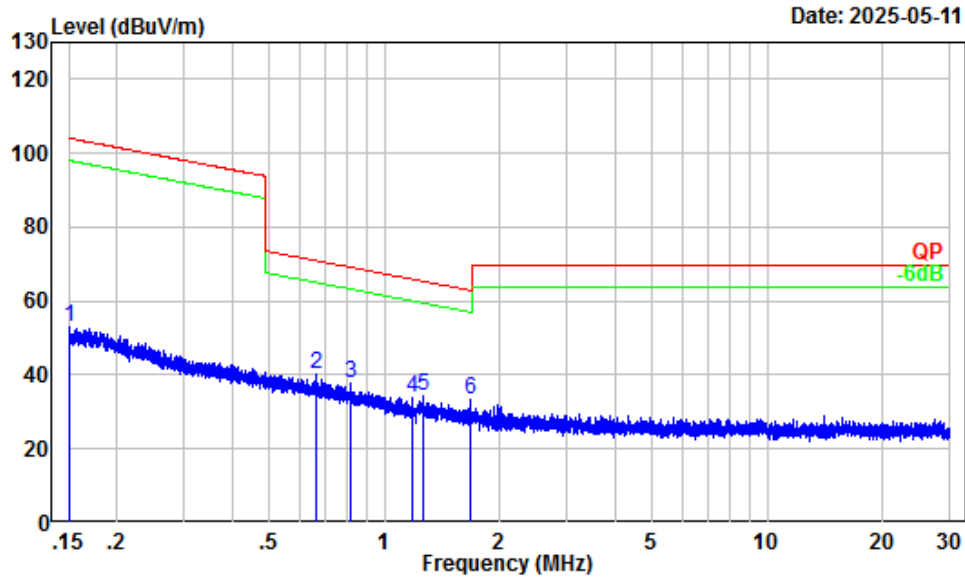
9 kHz-30MHz: (Maximum output power mode, EDR Mode (8DPSK) Low channel)

Parallel (worst case)



Site : Chamber A
Condition : 3m
Project Number : 2501S19432E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz		dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.26	25.22	57.48	127.42	-69.94	Peak
2	0.033	28.20	20.60	48.80	117.28	-68.48	Peak
3	0.047	26.72	20.94	47.66	114.18	-66.52	Peak
4	0.061	25.26	20.38	45.64	111.84	-66.20	Peak
5	0.076	23.78	20.39	44.17	109.97	-65.80	Peak
6	0.097	22.22	20.57	42.79	107.88	-65.09	Peak

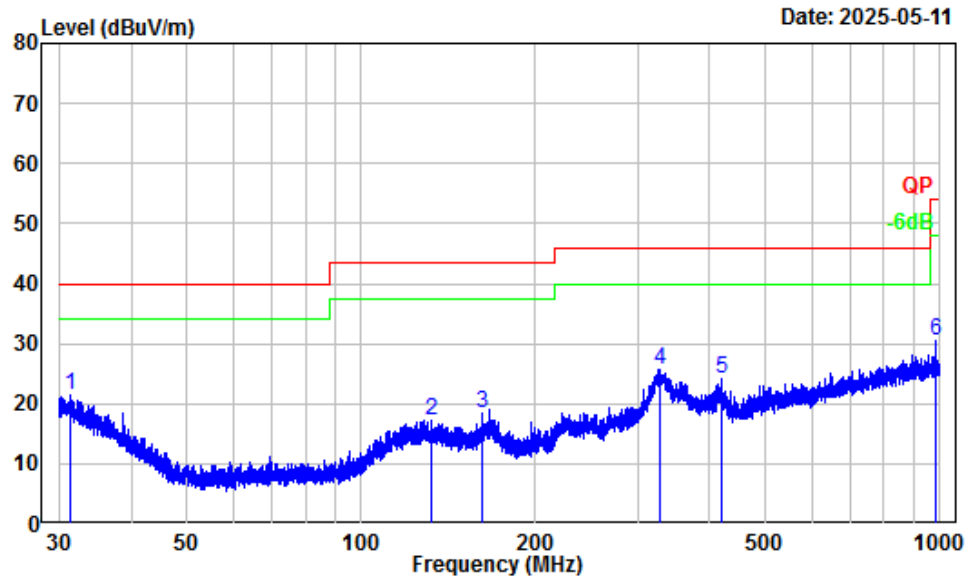


Site : Chamber A
 Condition : 3m
 Project Number : 2501S19432E-RF
 Test Mode : Transmitting
 Detector: Peak RBW/VBW: 10/30kHz
 Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.151	19.00	33.88	52.88	104.03	-51.15	Peak
2	0.660	4.42	35.76	40.18	71.15	-30.97	Peak
3	0.814	2.59	35.31	37.90	69.30	-31.40	Peak
4	1.181	0.69	33.33	34.02	66.00	-31.98	Peak
5	1.266	0.45	33.69	34.14	65.38	-31.24	Peak
6	1.679	-0.70	34.01	33.31	62.88	-29.57	Peak

30MHz-1GHz: (Maximum output power mode, EDR Mode (8DPSK) Low channel)

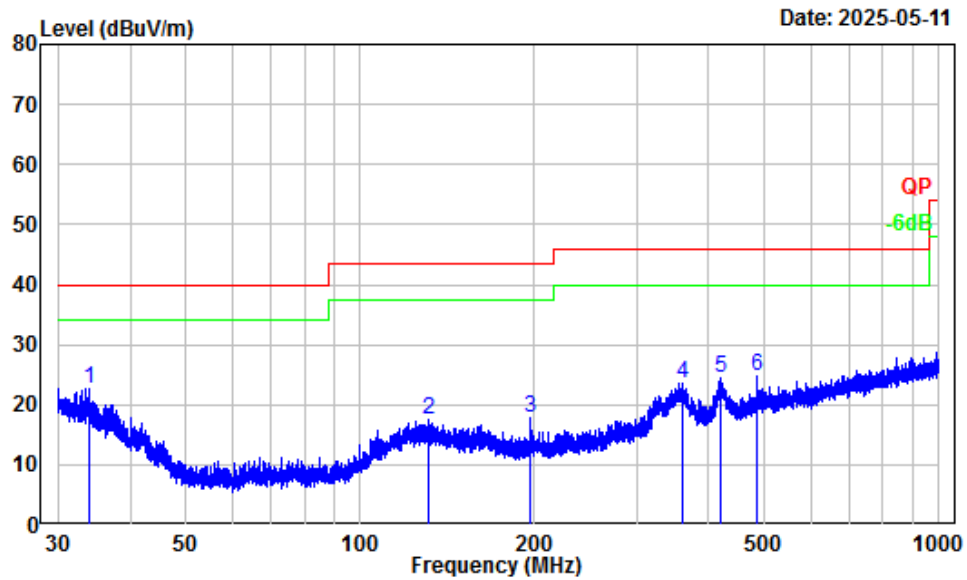
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2501S19432E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	31.45	-6.74	28.07	21.33	40.00	-18.67	Peak
2	132.16	-11.32	28.42	17.10	43.50	-26.40	Peak
3	161.55	-12.72	31.13	18.41	43.50	-25.09	Peak
4	327.74	-10.67	36.41	25.74	46.00	-20.26	Peak
5	418.74	-7.97	32.06	24.09	46.00	-21.91	Peak
6	981.33	-0.66	31.30	30.64	54.00	-23.36	Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2501S19432E-RF
Test Mode : Transmitting
Detector: Peak RBW/VBW: 100/300kHz
Tester : Alex Yan

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	33.89	-8.20	30.94	22.74	40.00	-17.26	Peak
2	131.07	-11.31	28.81	17.50	43.50	-26.00	Peak
3	196.08	-13.49	31.23	17.74	43.50	-25.76	Peak
4	359.66	-9.90	33.34	23.44	46.00	-22.56	Peak
5	418.92	-7.96	32.40	24.44	46.00	-21.56	Peak
6	486.04	-6.14	30.92	24.78	46.00	-21.22	Peak

Above 1GHz:

Frequency (MHz)	Reading (dBμV)	PK/AV	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
8DPSK							
Low Channel 2402MHz							
4804.00	55.85	PK	H	-7.79	48.06	74	-25.94
4804.00	54.32	PK	V	-7.79	46.53	74	-27.47
Middle Channel 2441MHz							
4882.00	59.75	PK	H	-7.58	52.17	74	-21.83
4882.00	56.40	PK	V	-7.58	48.82	74	-25.18
High Channel 2480MHz							
4960.00	61.45	PK	H	-7.56	53.89	74	-20.11
4960.00	58.81	PK	V	-7.56	51.25	74	-22.75

Note:

Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

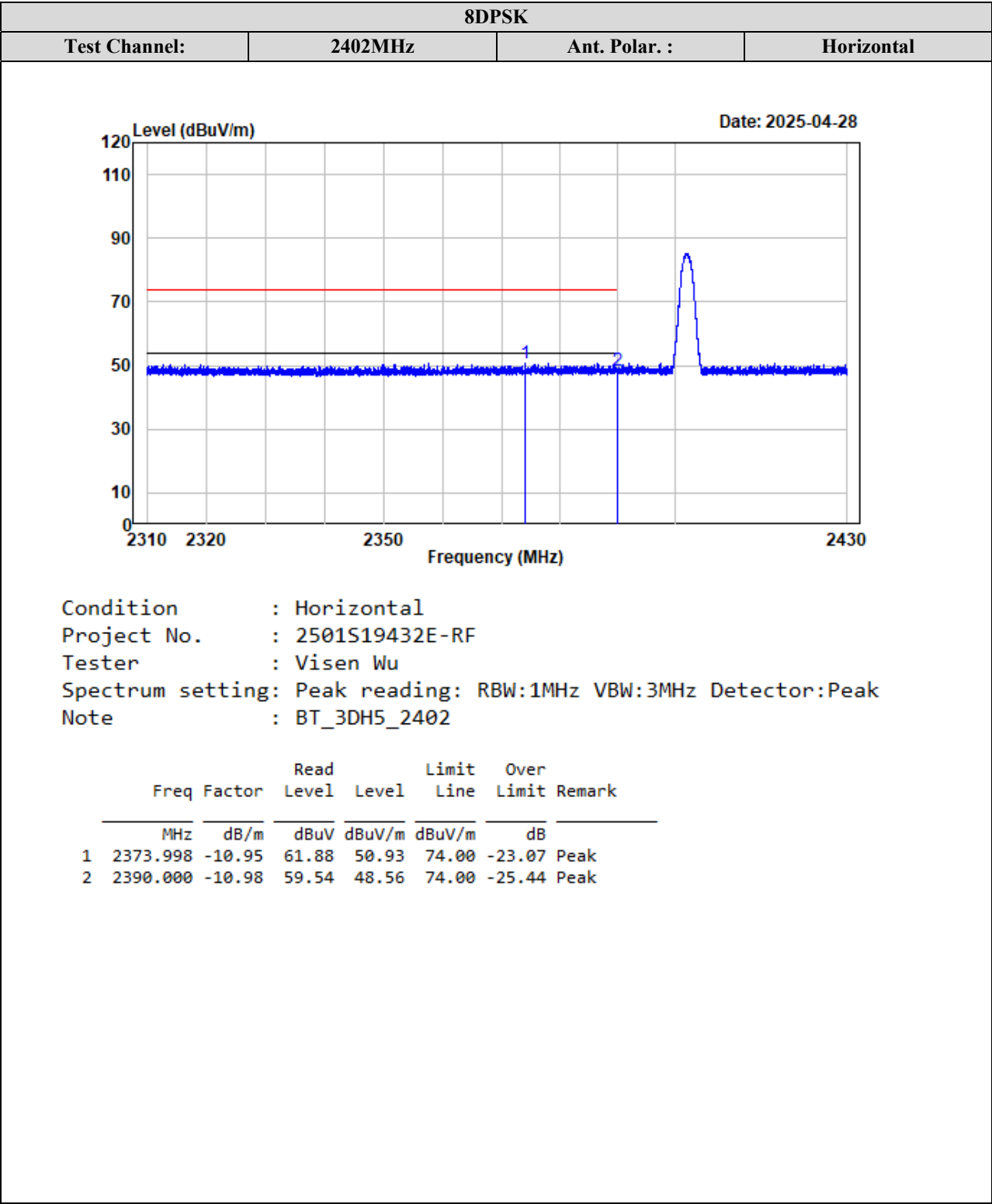
Corrected Amplitude/Level = Factor + Reading

Margin = Corrected Amplitude/Level - Limit

The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak values were recorded.

Test plots for Band Edge Measurements (Radiated):



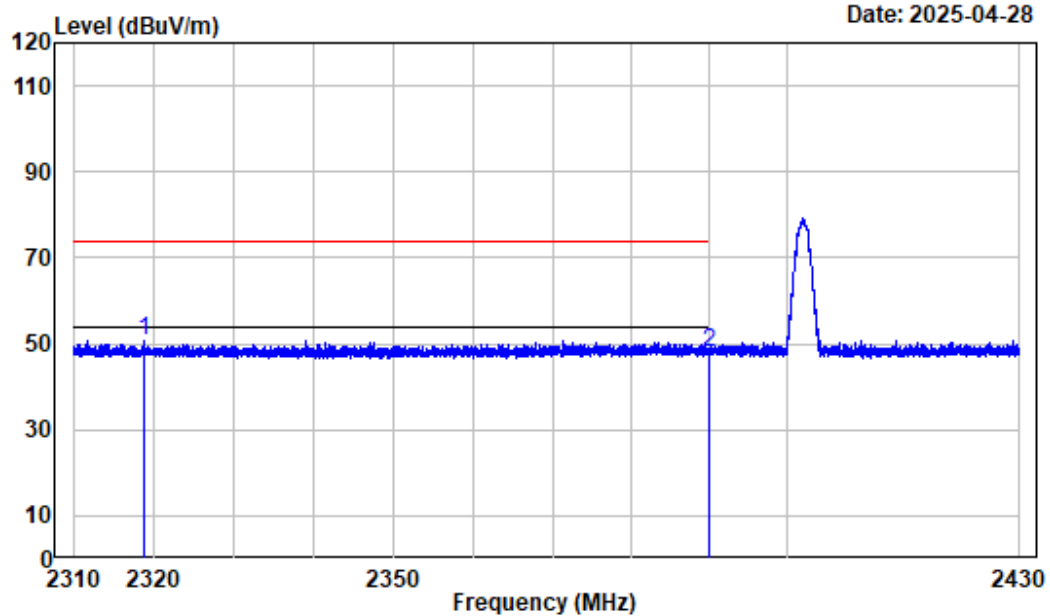
8DPSK

Test Channel:

2402MHz

Ant. Polar. :

Vertical



Condition : Vertical

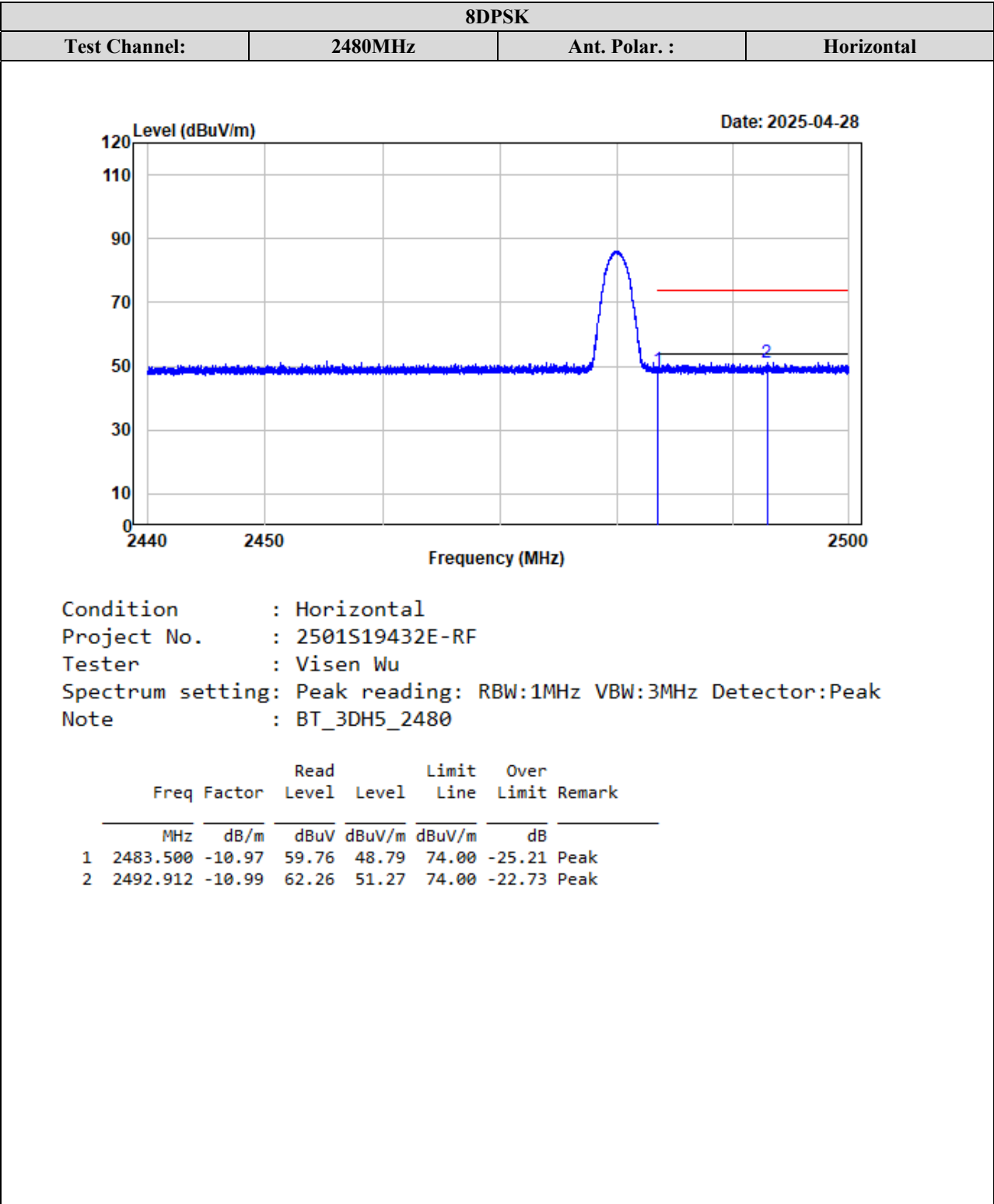
Project No. : 2501S19432E-RF

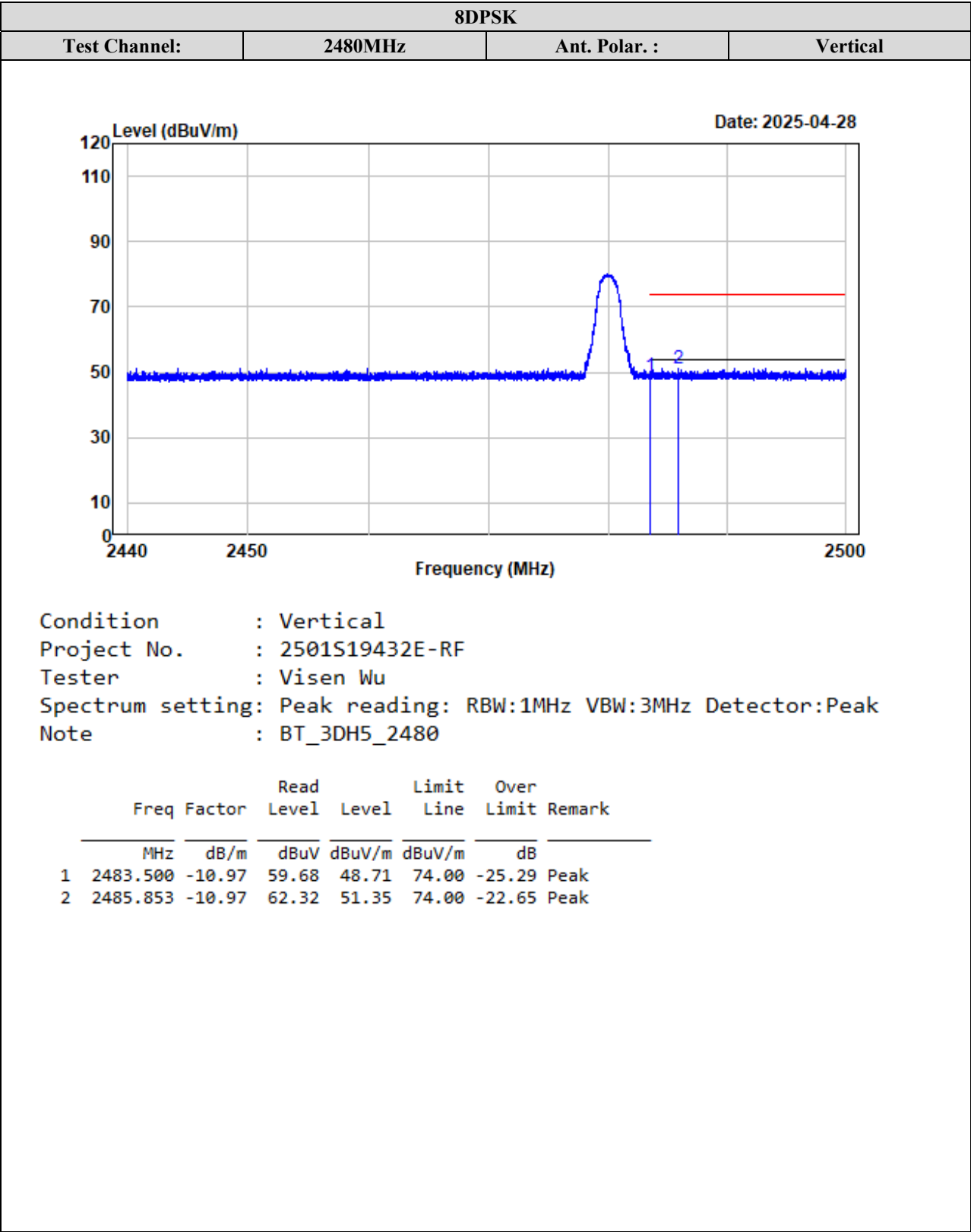
Tester : Visen Wu

Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak

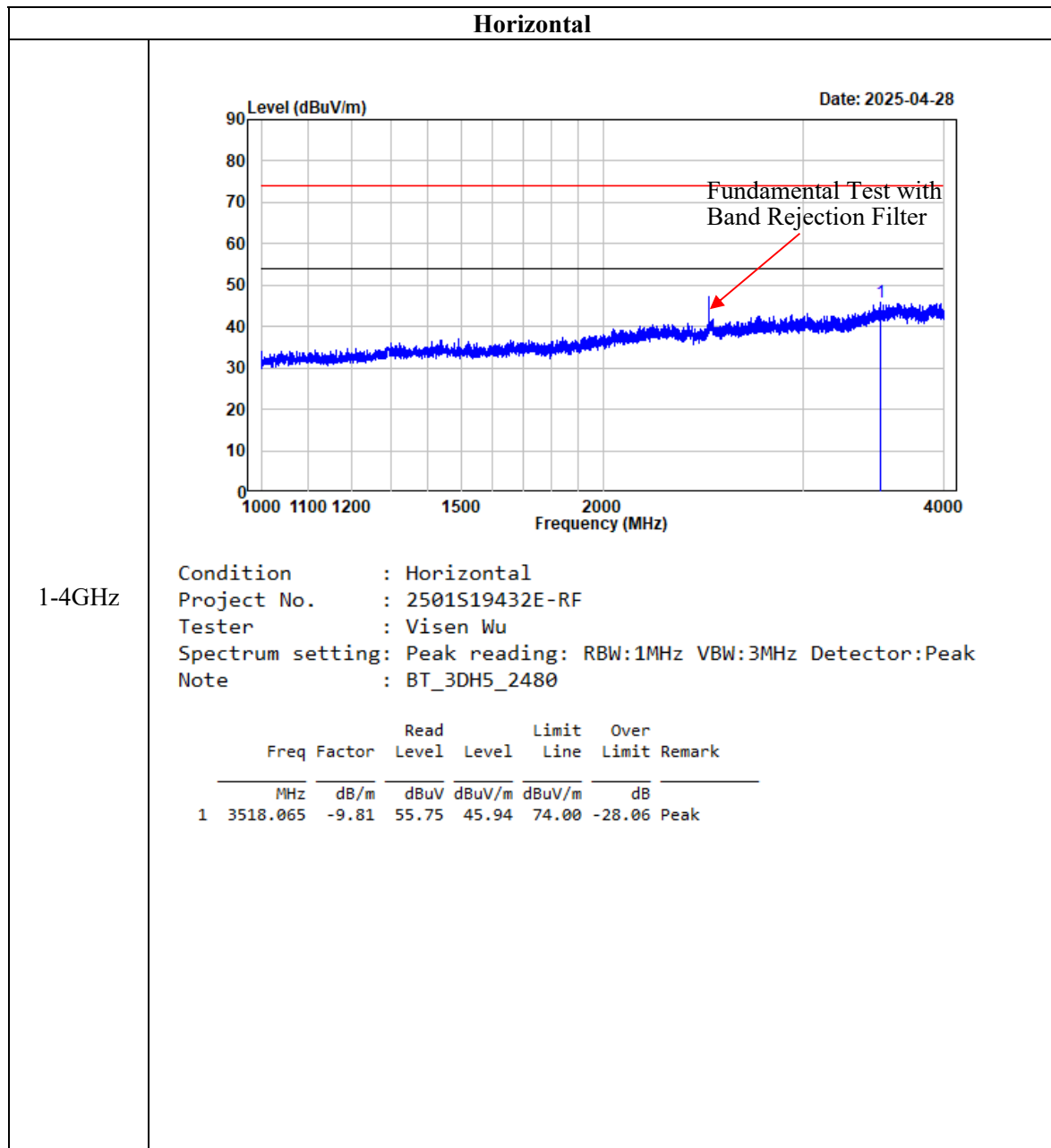
Note : BT_3DH5_2402

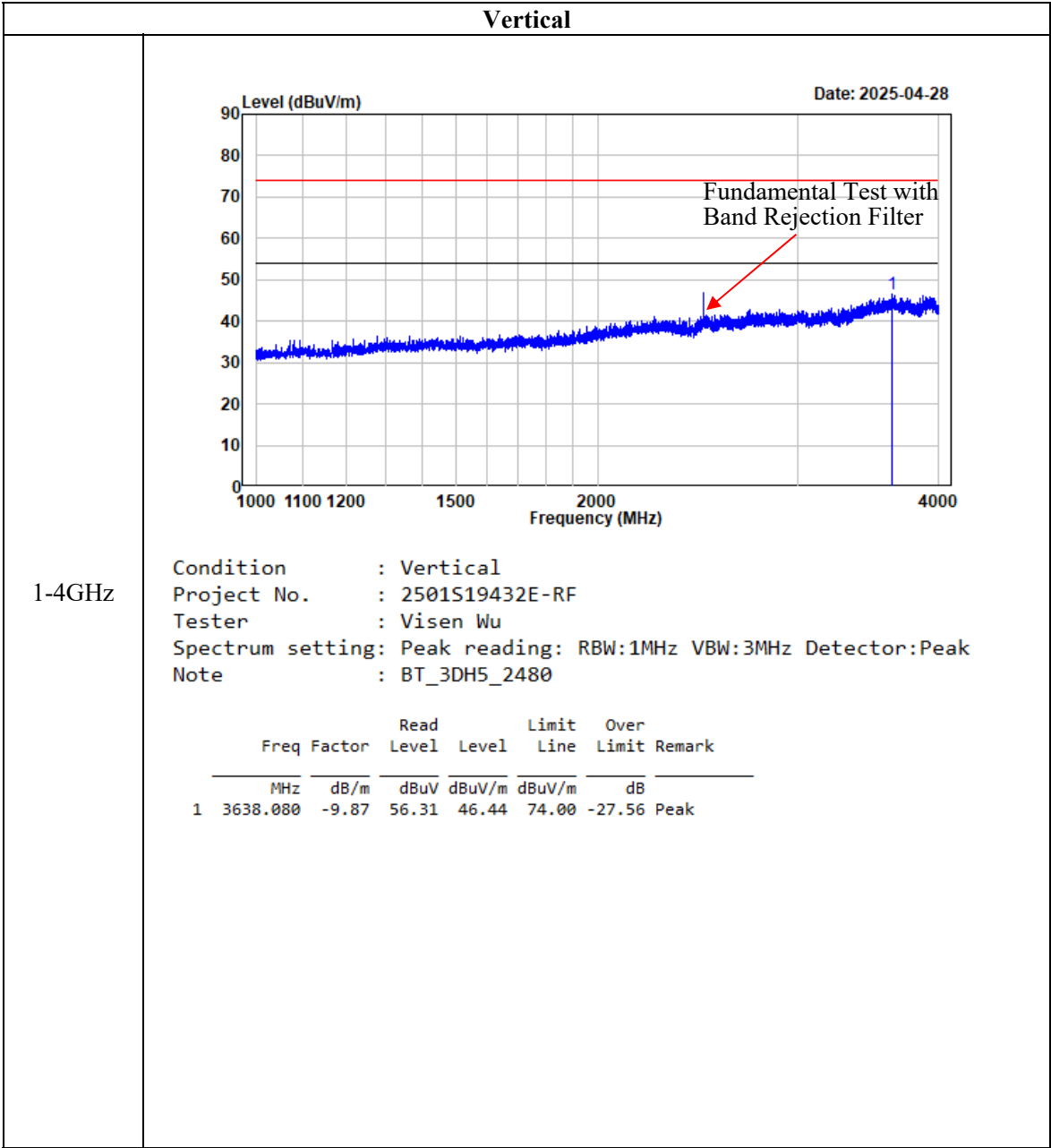
	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2318.806	-10.81	61.64	50.83	74.00	-23.17	Peak
2	2390.000	-10.98	58.78	47.80	74.00	-26.20	Peak

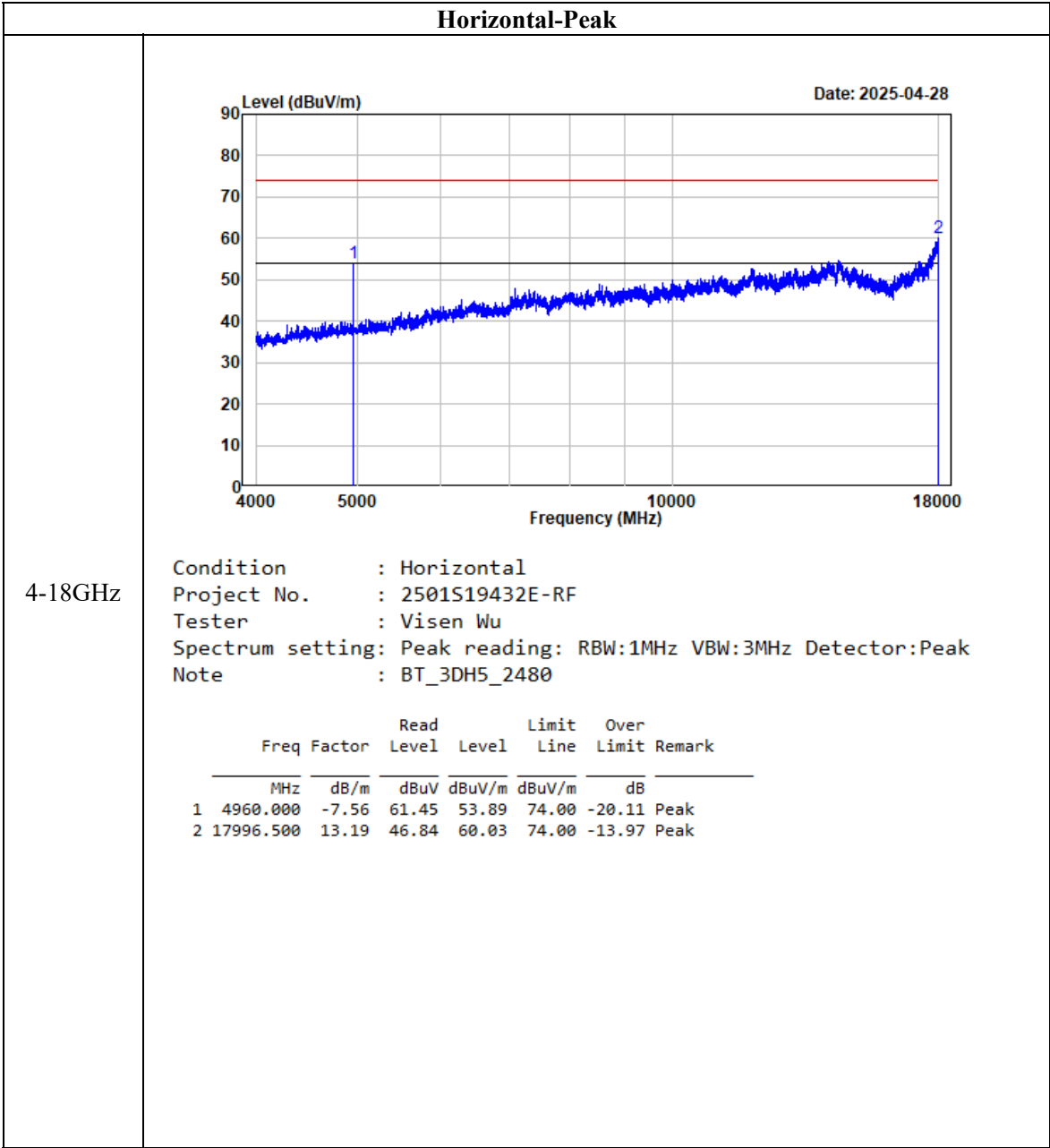


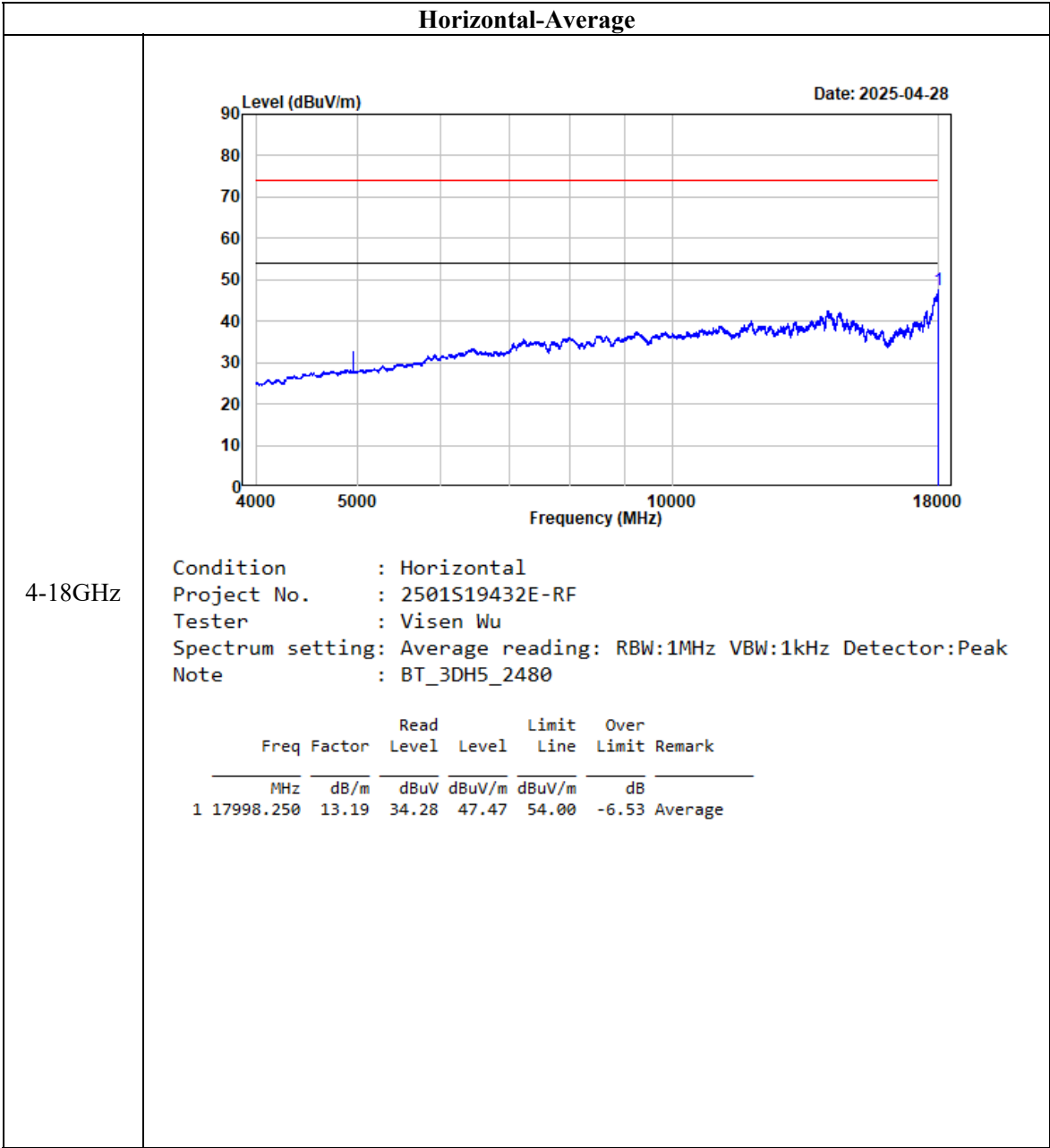


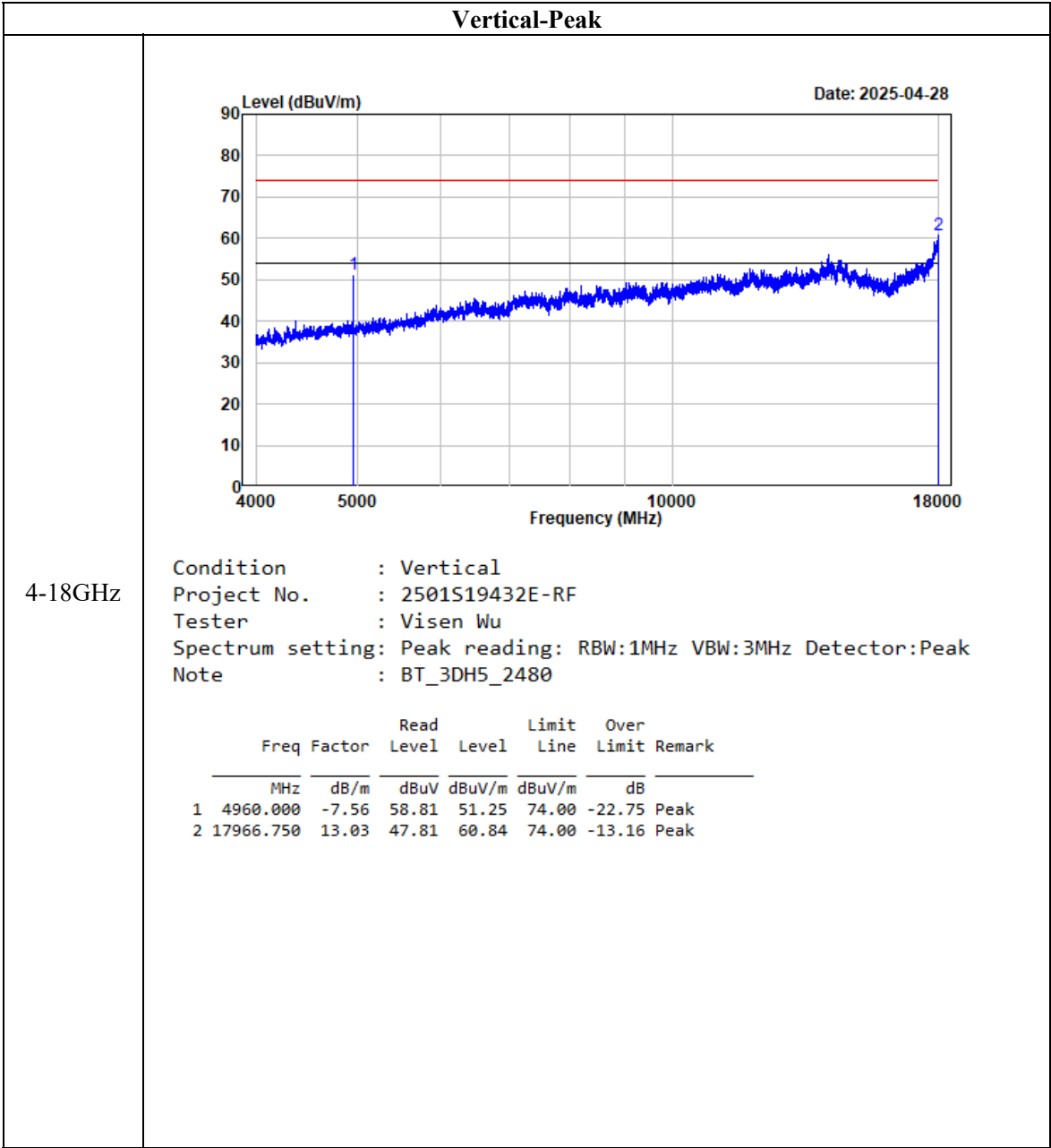
1-18GHz (Listed with the worst harmonic margin test plots):

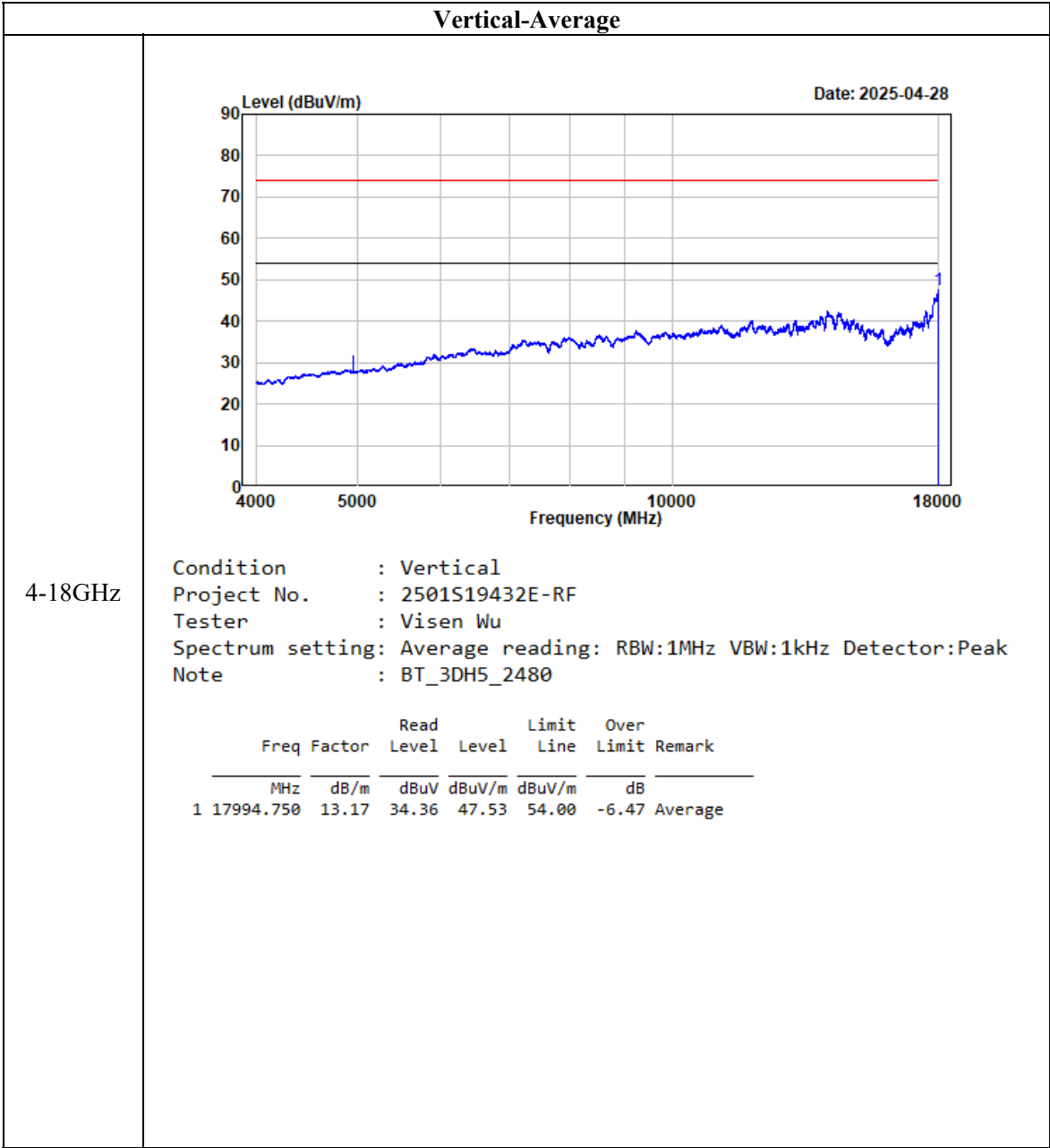


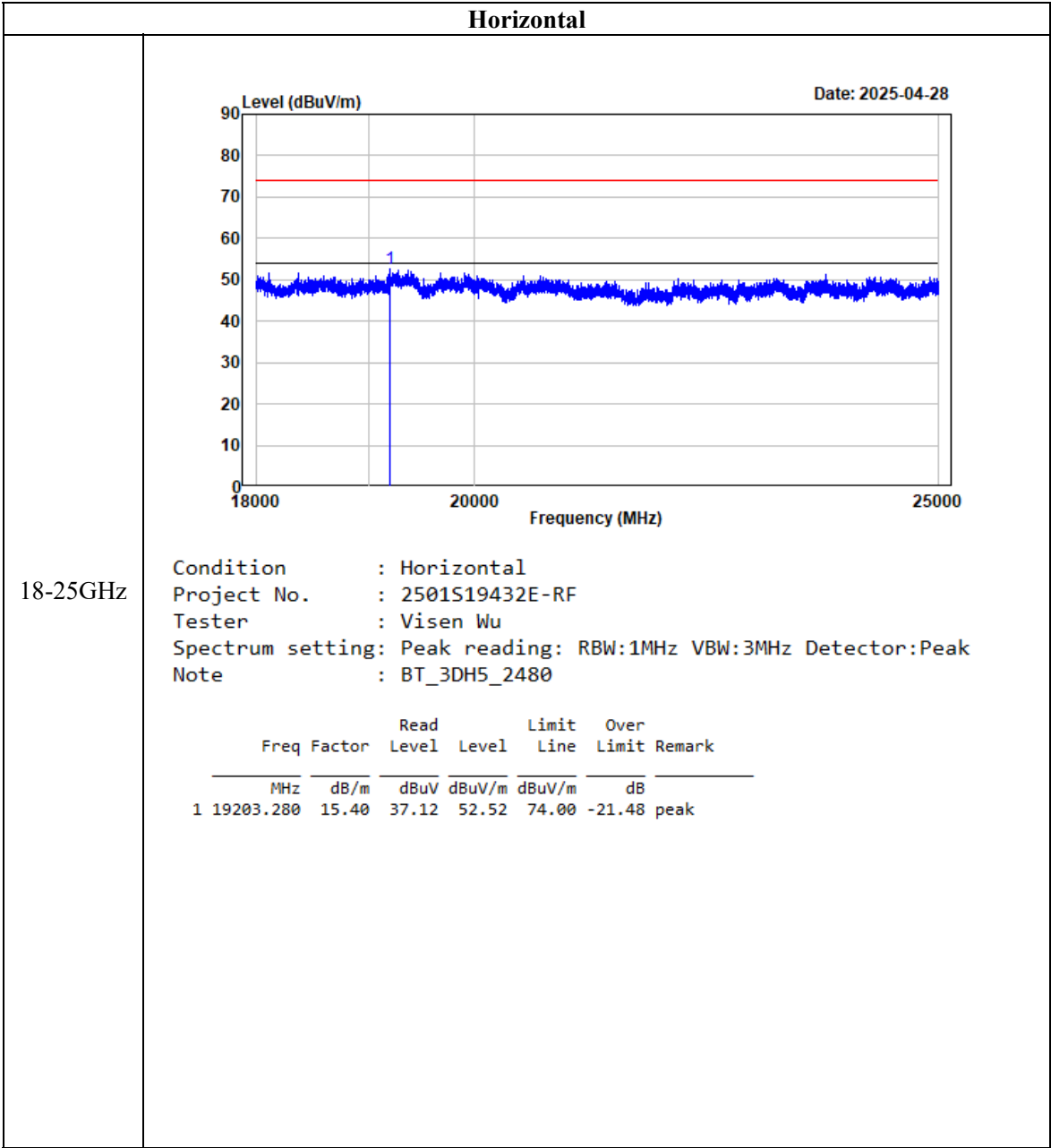


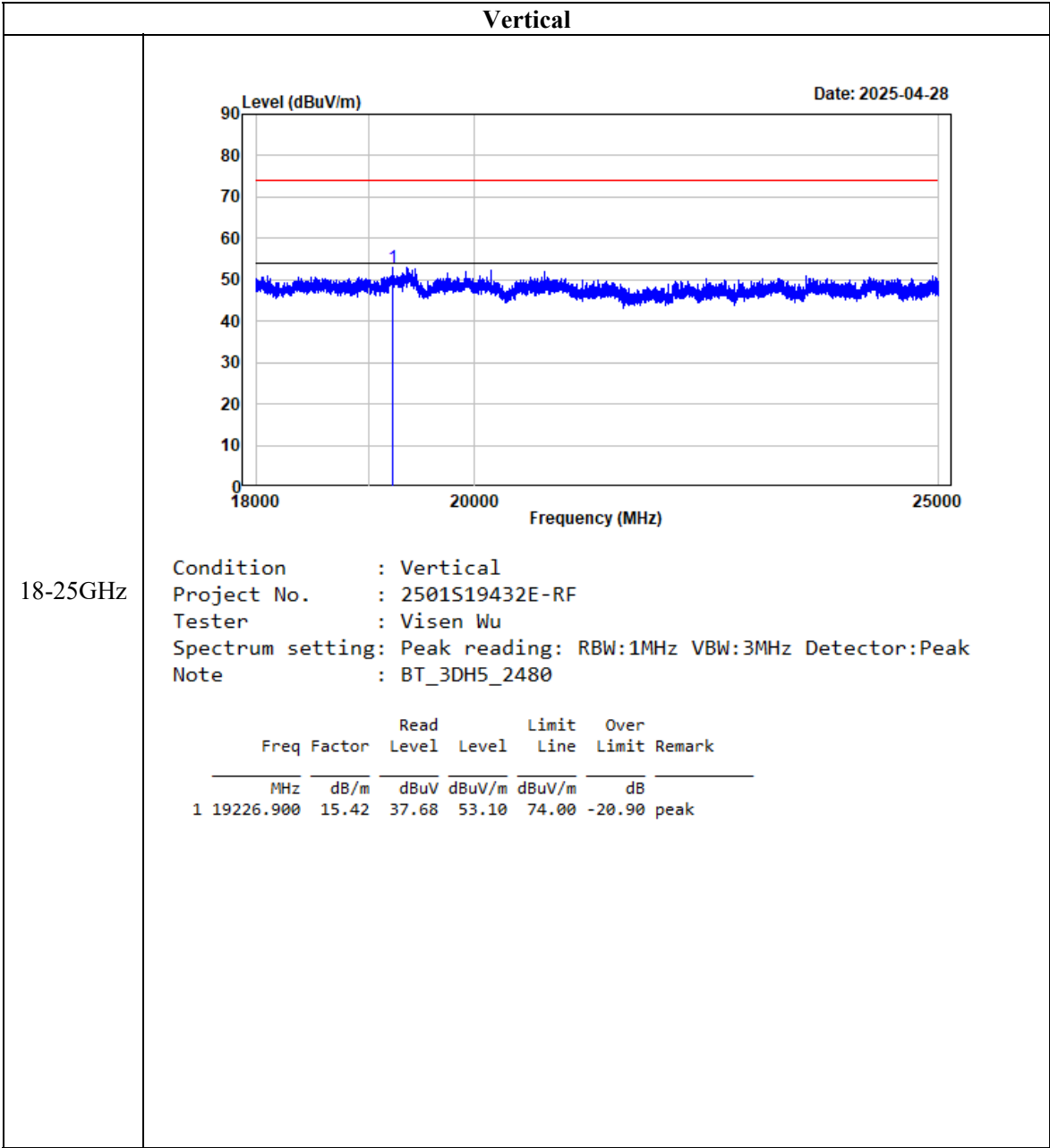












FCC §15.247(a) (1) - CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Procedure

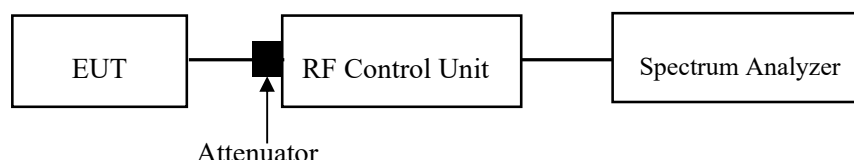
Test Method: ANSI C63.10-2020 Clause 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

Where the device shares the same channel plan (carrier frequencies and number of channels) across multiple data rates or modulation schemes then the carrier separation need only be measured for one of those modulation schemes or data rates.



Test Data**Environmental Conditions**

Temperature:	25.4 °C
Relative Humidity:	45 %
ATM Pressure:	101 kPa

The testing was performed by Navilite Cai on 2025-04-25.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(a) (1) - 20 dB EMISSION BANDWIDTH

Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

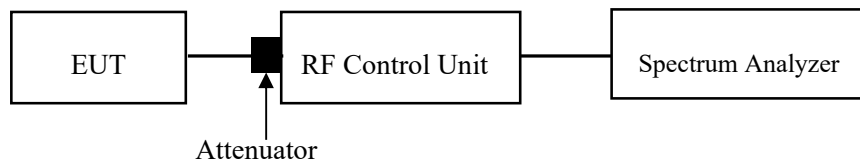
Test Procedure

Test Method: ANSI C63.10-2020 Clause 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be at least three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “–xx dB down” requirement; that is, if the requirement calls for measuring the –20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max-hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “–xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The dBc bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The dBc bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Test Data

Environmental Conditions

Temperature:	25.4 °C
Relative Humidity:	45 %
ATM Pressure:	101 kPa

The testing was performed by Navilite Cai on 2025-04-25.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

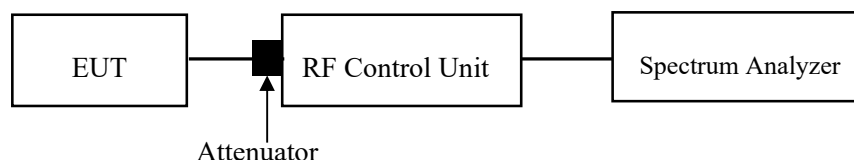
Test Method: ANSI C63.10-2020 Clause 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

Where the device shares the same channel plan (carrier frequencies and number of channels) across multiple data rates or modulation schemes then the carrier separation need only be measured for one of those modulation schemes or data rates.



Test Data**Environmental Conditions**

Temperature:	25.4 °C
Relative Humidity:	45 %
ATM Pressure:	101 kPa

The testing was performed by Navilite Cai on 2025-04-25.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.4

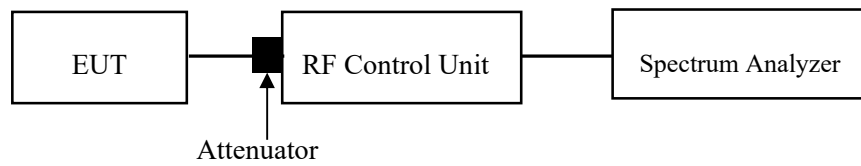
Use the following spectrum analyzer settings to determine the dwell time per hop:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected transmission time per hop.
- c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- e) Detector function: Peak.
- f) Trace: Clear-write, single sweep.
- g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.



Note 1: A period time= $0.4 \times 79 = 31.6$ (S), Result=BurstWidth*Totalhops

Note 2: Totalhops=Hopping Number in $3.16s \times 10$

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

Test Data

Environmental Conditions

Temperature:	25.4 °C
Relative Humidity:	45 %
ATM Pressure:	101 kPa

The testing was performed by Navilite Cai on 2025-04-25.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

Applicable Standard

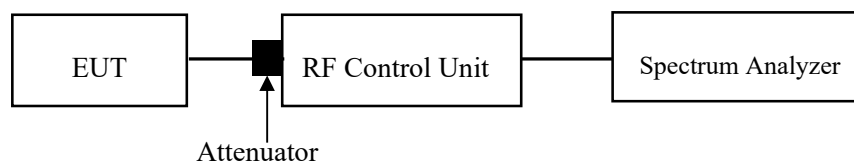
According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:

- a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- b) RBW > 20 dB bandwidth of the emission being measured.
- c) VBW $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow trace to stabilize.
- h) Use the marker-to-peak function to set the marker to the peak of the emission.
- i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- j) A spectral plot of the test results and setup description shall be included in the test report.



Note: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable loss.

Test Data**Environmental Conditions**

Temperature:	25.4 °C
Relative Humidity:	45 %
ATM Pressure:	101 kPa

The testing was performed by Navilite Cai on 2025-04-25.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(d) § 5.5 - BAND EDGES TESTING

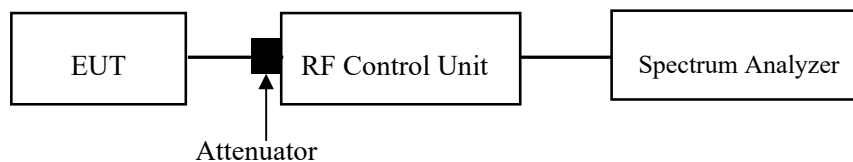
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.7.2 & Clause 6.10

- 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products that fall outside of the authorized band of operation.
- 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- 3) Attenuation: Auto (at least 10 dB preferred).
- 4) Sweep time: No faster than coupled (auto) time.
- 5) Resolution bandwidth: 100 kHz.
- 6) Video bandwidth: 300 kHz.
- 7) Detector: Peak.
- 8) Trace: Max-hold.



Test Data

Environmental Conditions

Temperature:	25.4-27.9 °C
Relative Humidity:	45-52 %
ATM Pressure:	101-100.4 kPa

The testing was performed by Rainbow Zhu and Navilite Cai on 2025-04-25 and 2025-09-10.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

FCC §15.247(D) - CONDUCTED SPURIOUS EMISSION

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

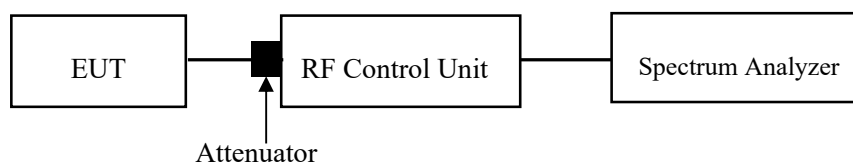
Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.7.1

To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.

The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.



Test Data**Environmental Conditions**

Temperature:	27.9 °C
Relative Humidity:	52 %
ATM Pressure:	100.4 kPa

The testing was performed by Rainbow Zhu on 2025-09-10.

EUT operation mode: Transmitting

Test Result: Compliant. Please refer to the Appendix.

EUT PHOTOGRAPHS

Please refer to the attachment 2501S19432E-RF External photo and 2501S19432E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501S19432E-RF Test Setup photo.

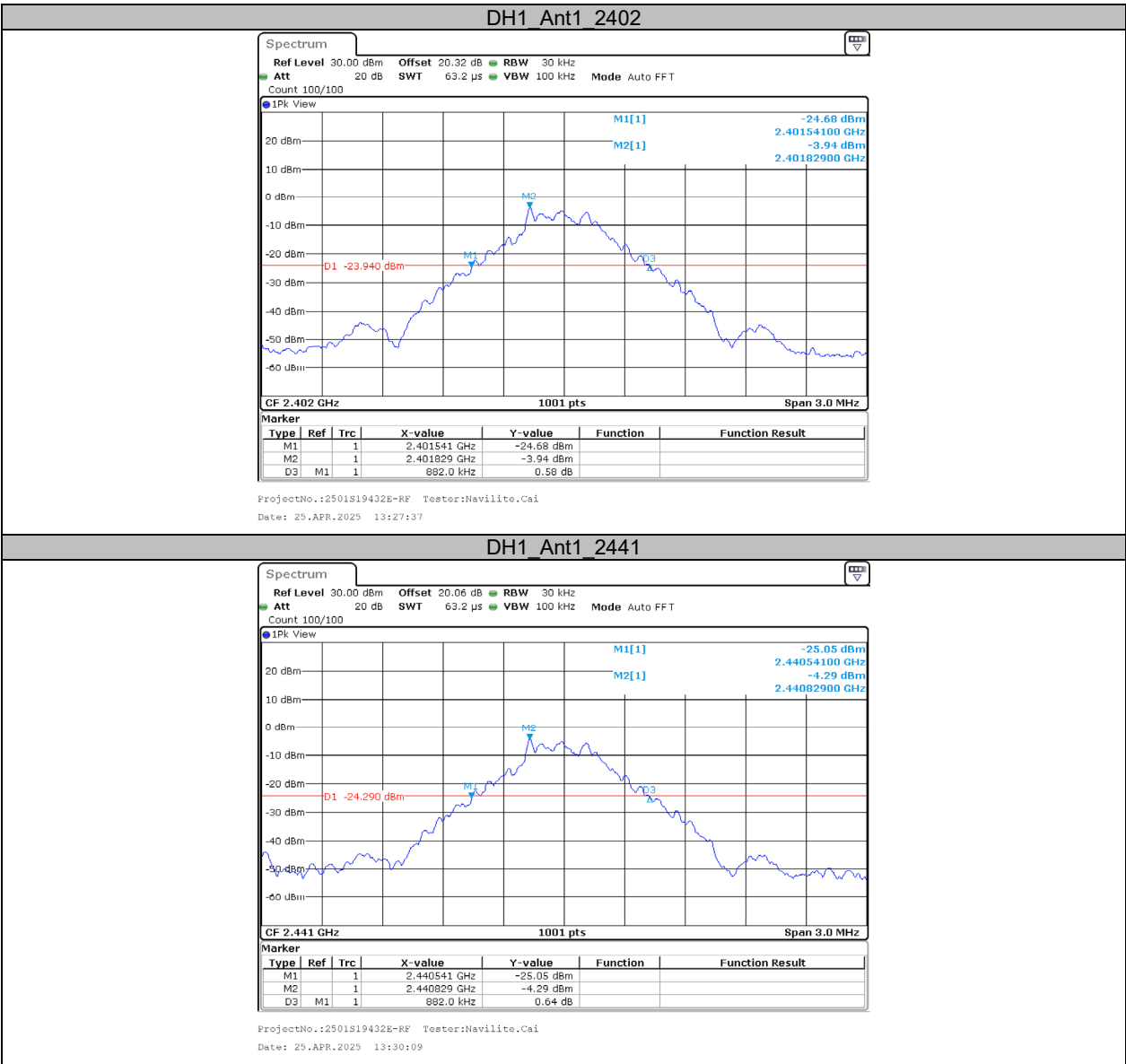
APPENDIX

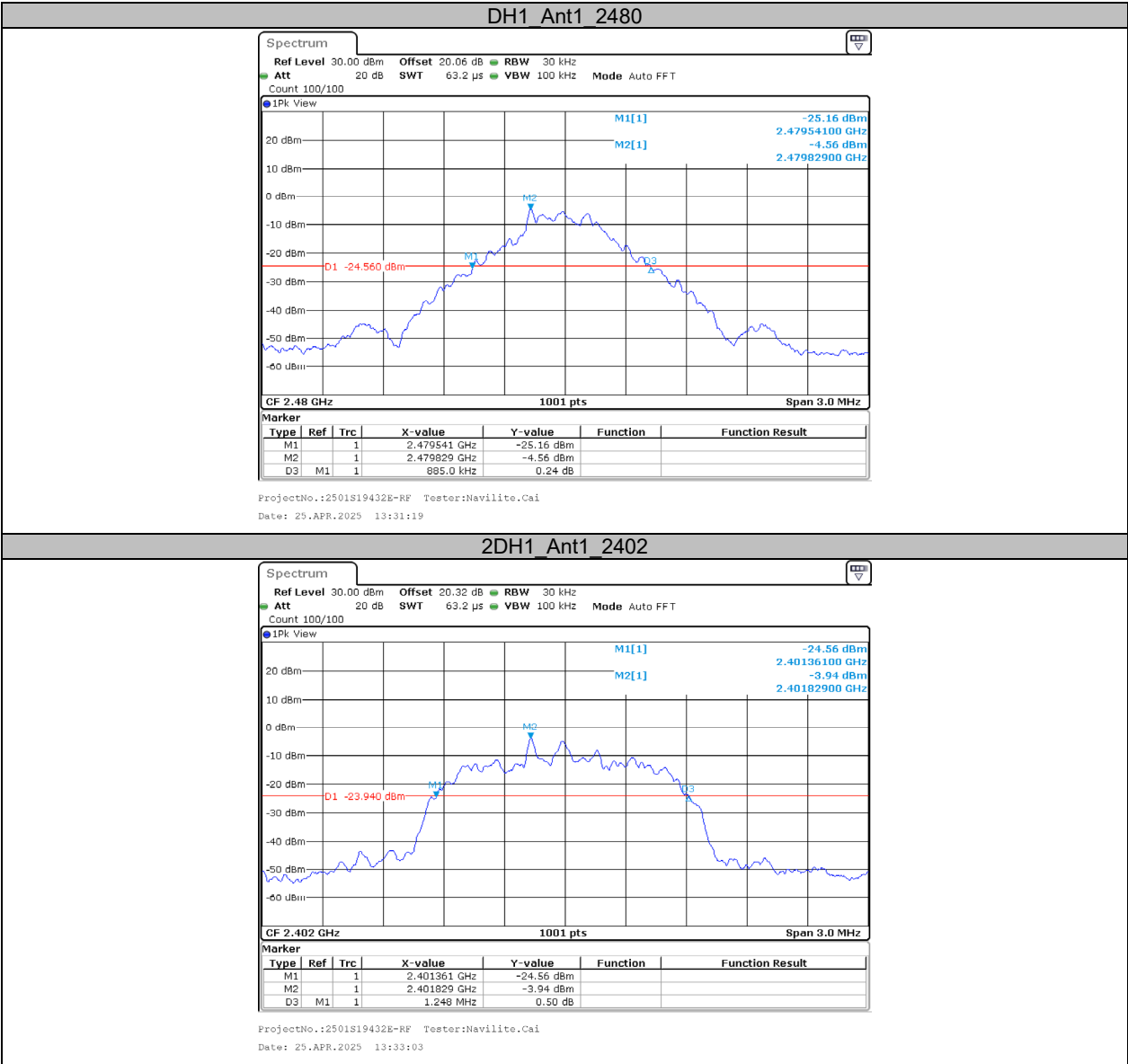
Appendix A: 20dB Emission Bandwidth

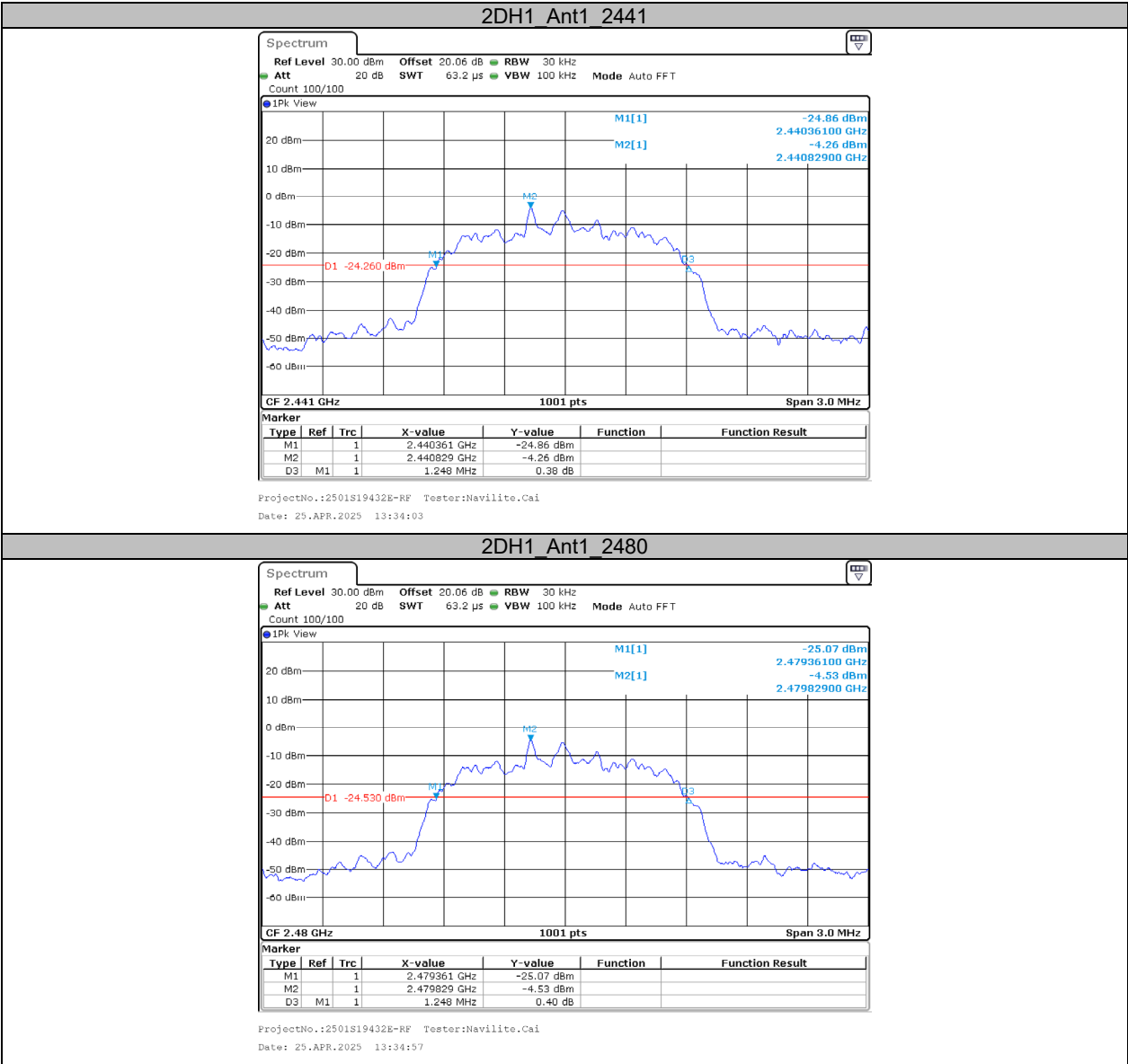
Test Result

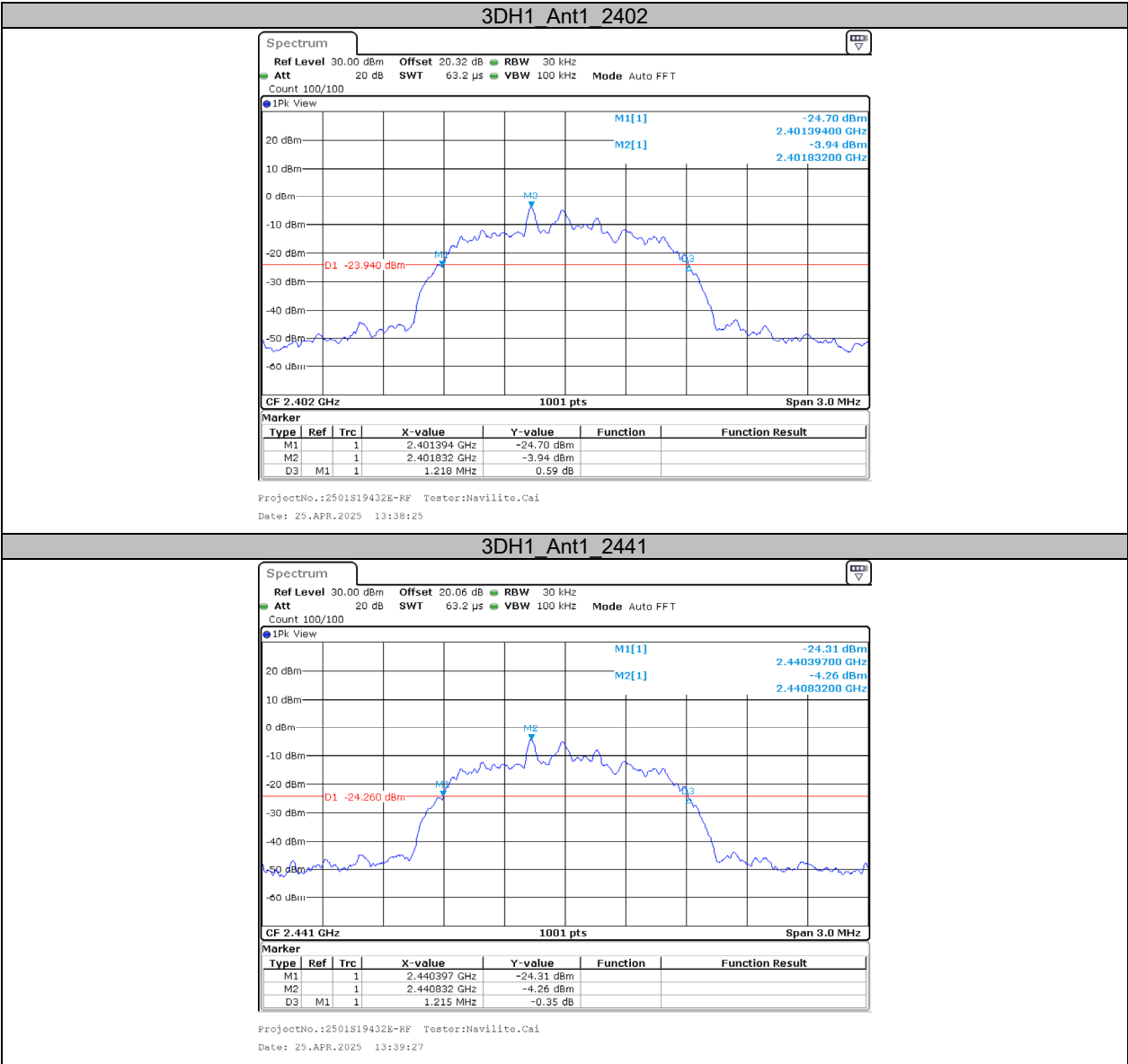
Test Mode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.882	2401.541	2402.423	---	---
		2441	0.882	2440.541	2441.423	---	---
		2480	0.885	2479.541	2480.423	---	---
2DH1	Ant1	2402	1.248	2401.361	2402.609	---	---
		2441	1.248	2440.361	2441.609	---	---
		2480	1.248	2479.361	2480.609	---	---
3DH1	Ant1	2402	1.218	2401.394	2402.612	---	---
		2441	1.215	2440.397	2441.612	---	---
		2480	1.215	2479.397	2480.612	---	---

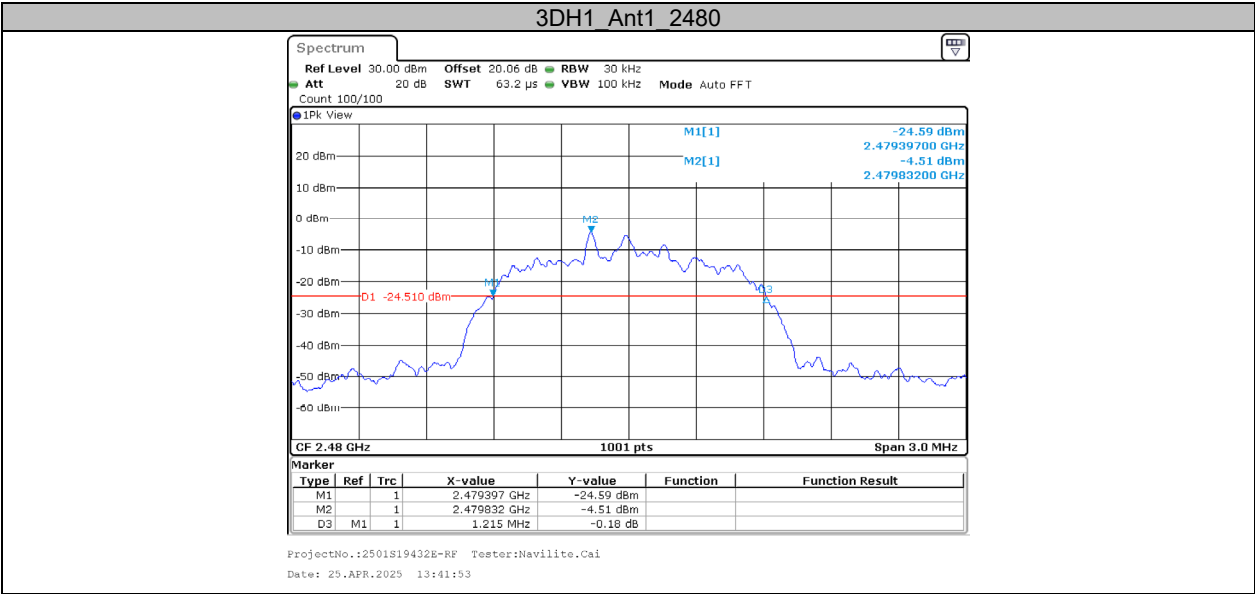
Test Graphs





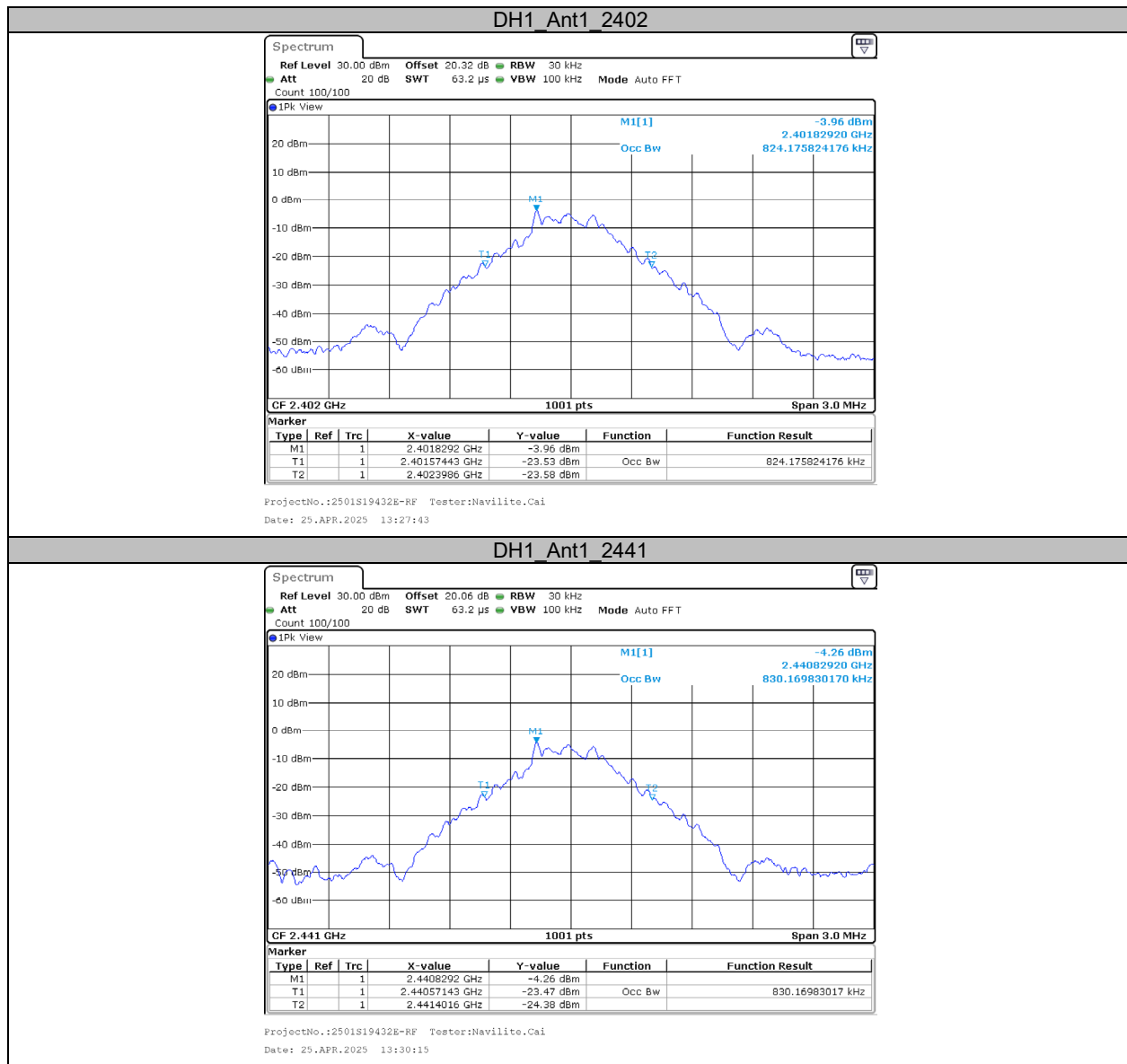


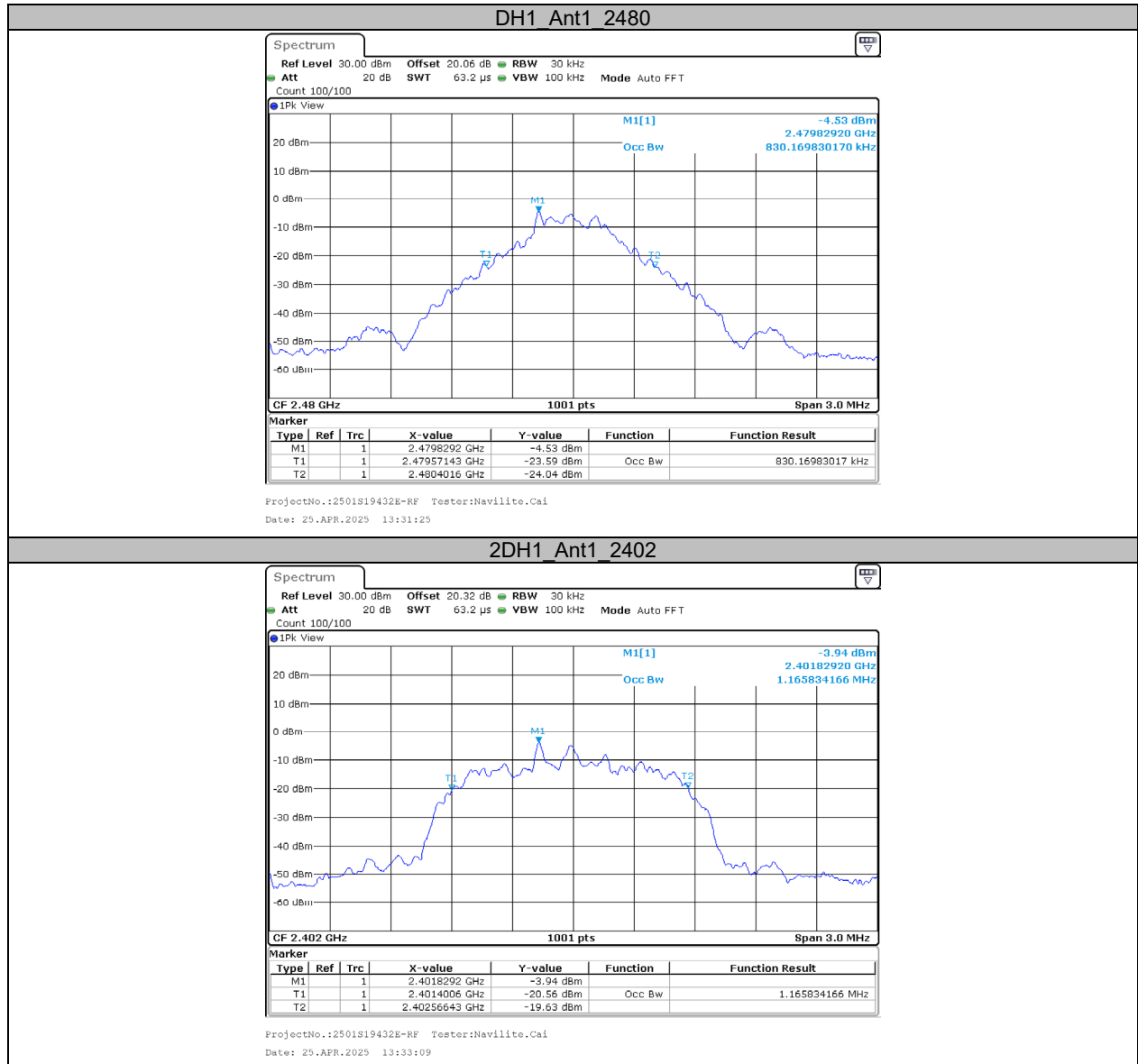


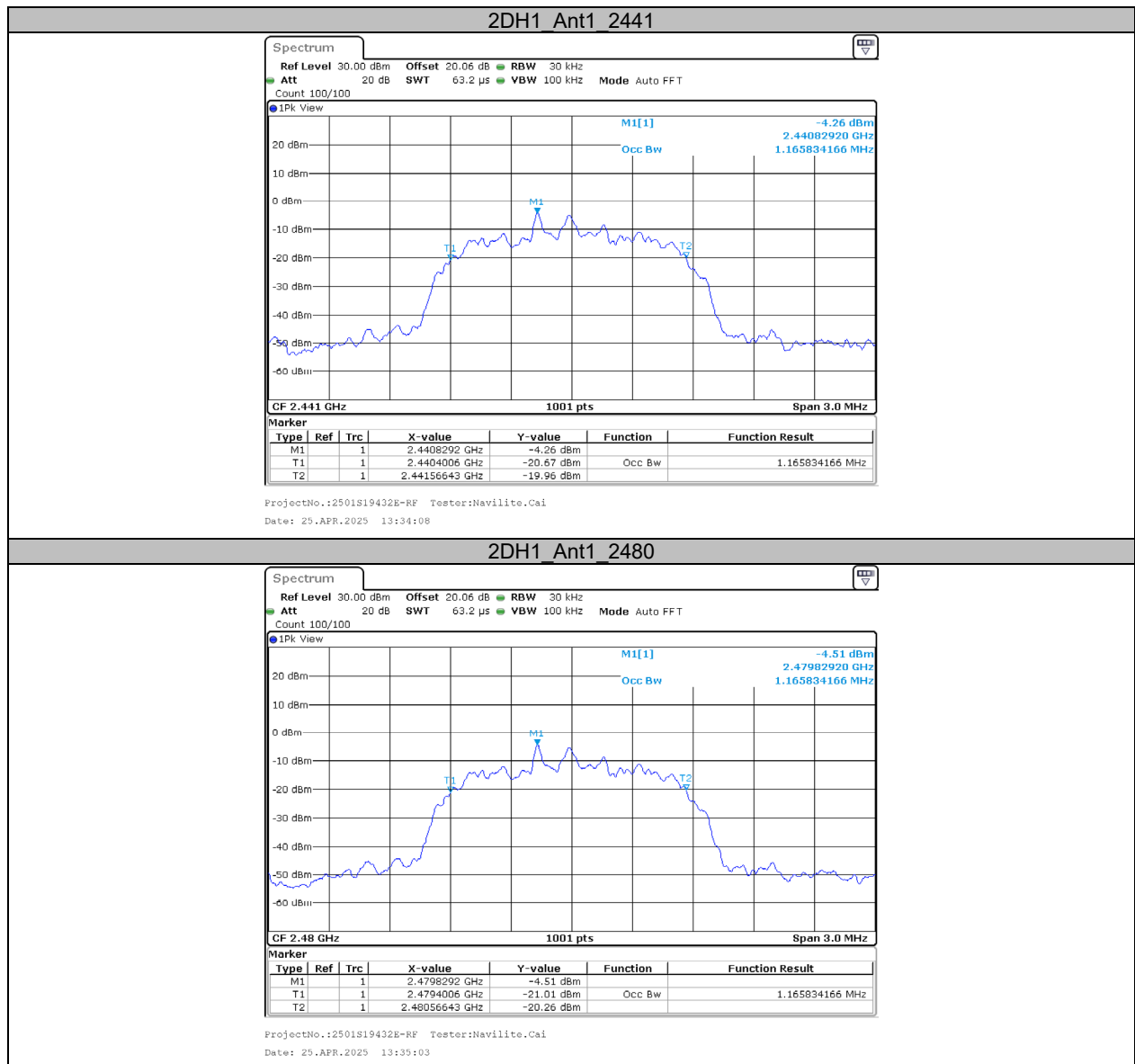


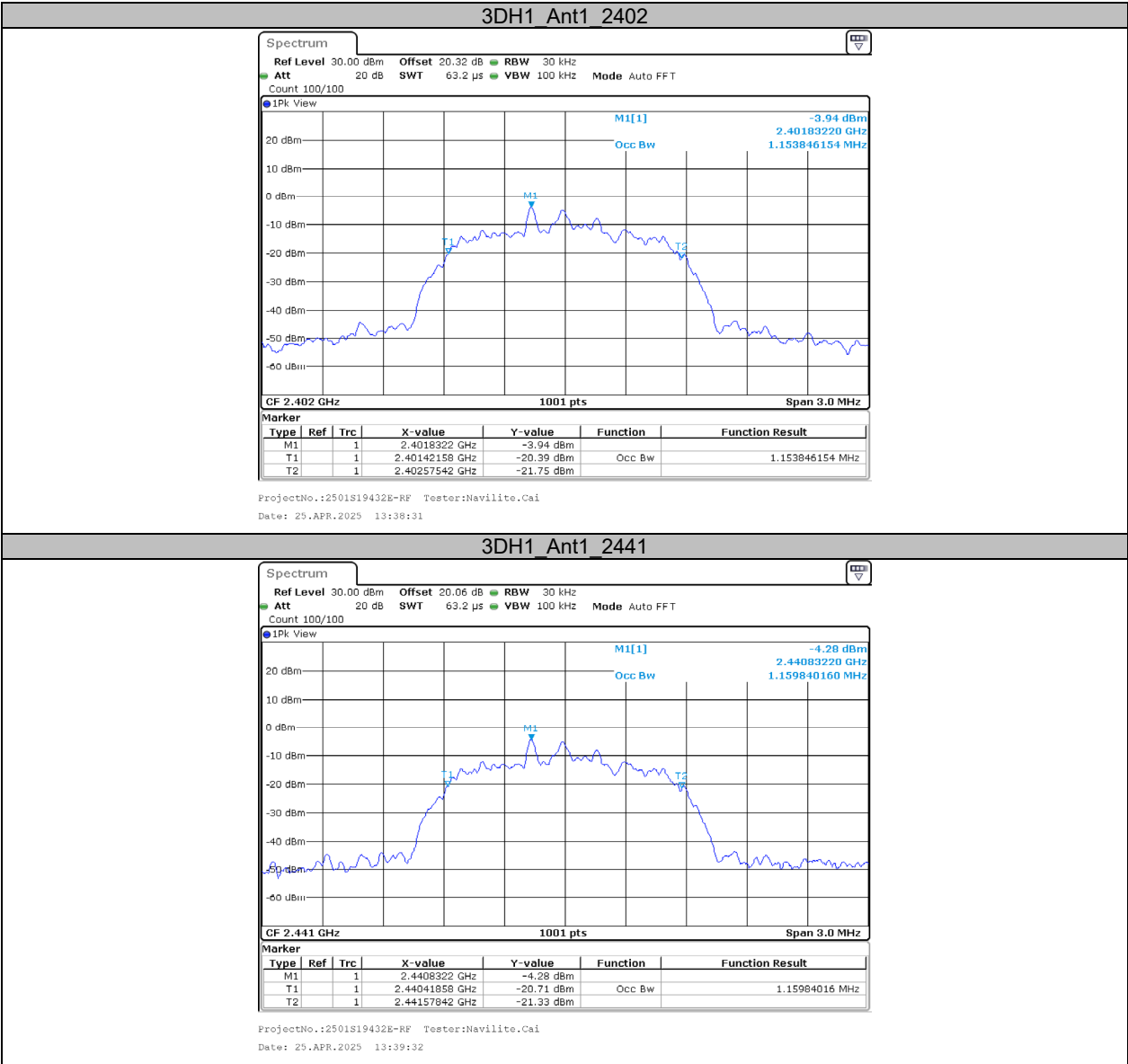
Appendix B: Occupied Channel Bandwidth**Test Result**

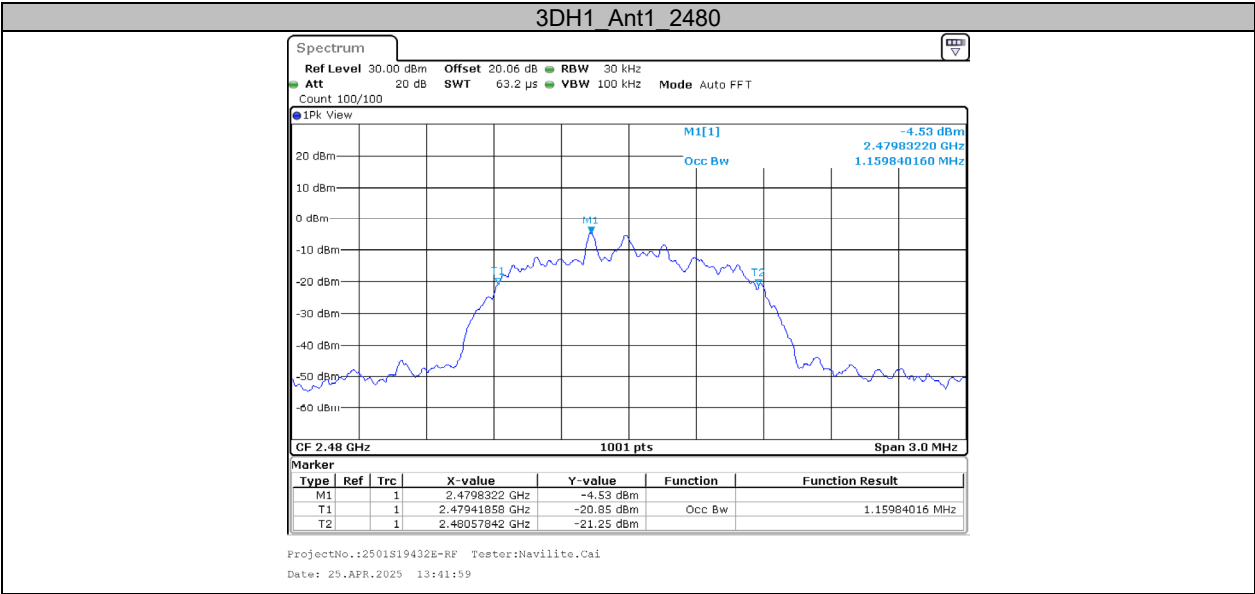
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.824	2401.5744	2402.3986	---	---
		2441	0.83	2440.5714	2441.4016	---	---
		2480	0.83	2479.5714	2480.4016	---	---
2DH1	Ant1	2402	1.166	2401.4006	2402.5664	---	---
		2441	1.166	2440.4006	2441.5664	---	---
		2480	1.166	2479.4006	2480.5664	---	---
3DH1	Ant1	2402	1.154	2401.4216	2402.5754	---	---
		2441	1.16	2440.4186	2441.5784	---	---
		2480	1.16	2479.4186	2480.5784	---	---

Test Graphs





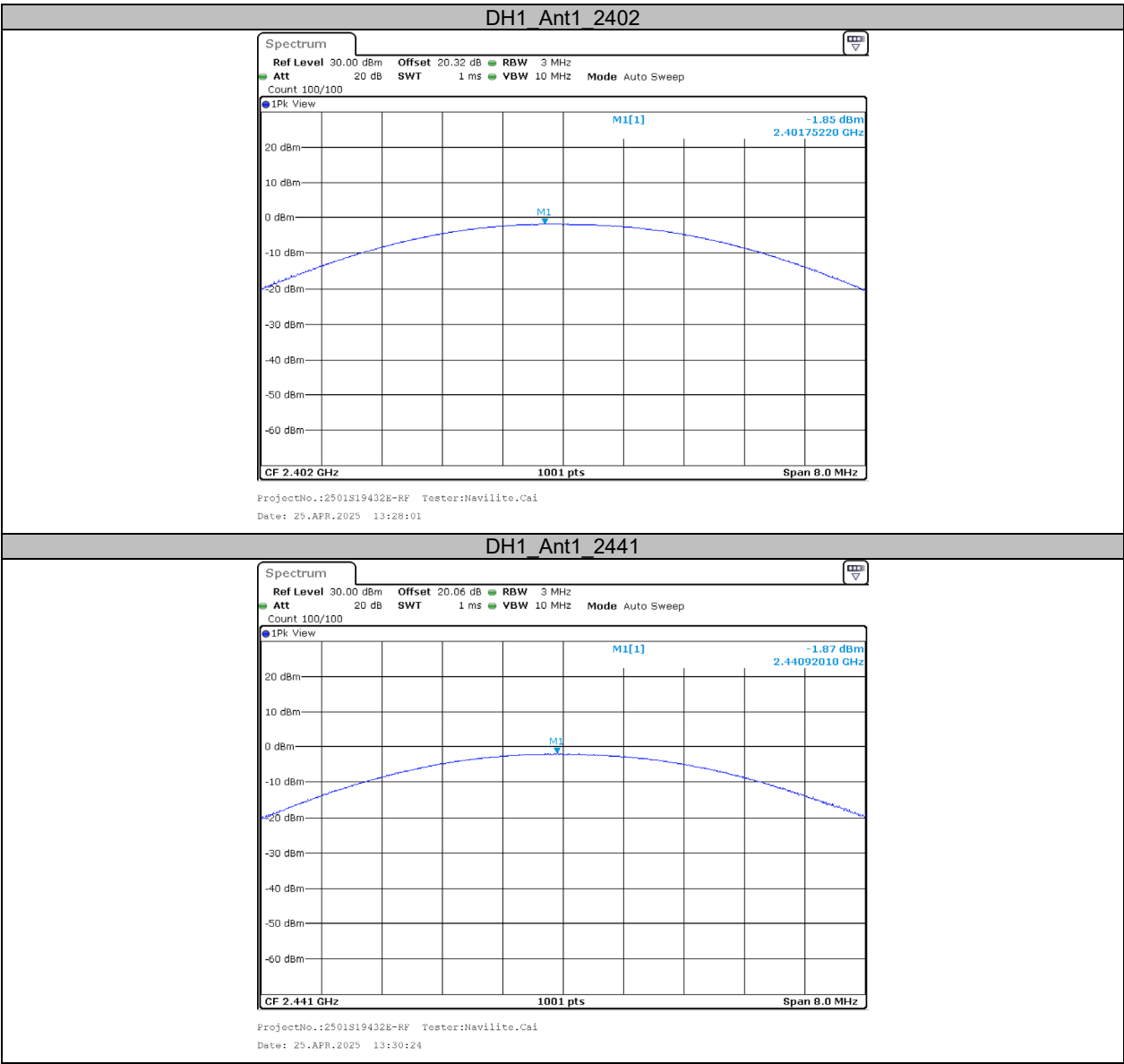


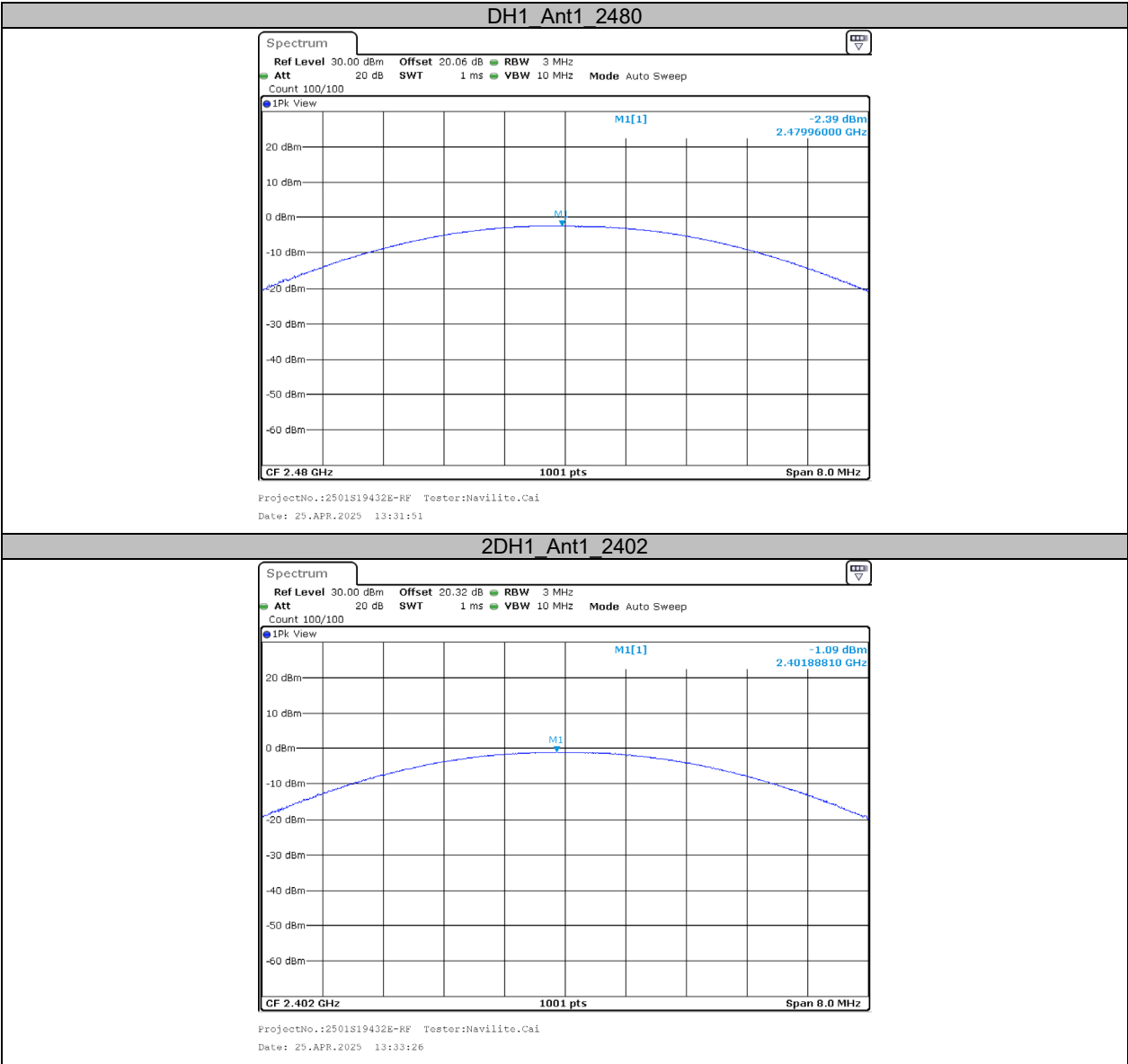


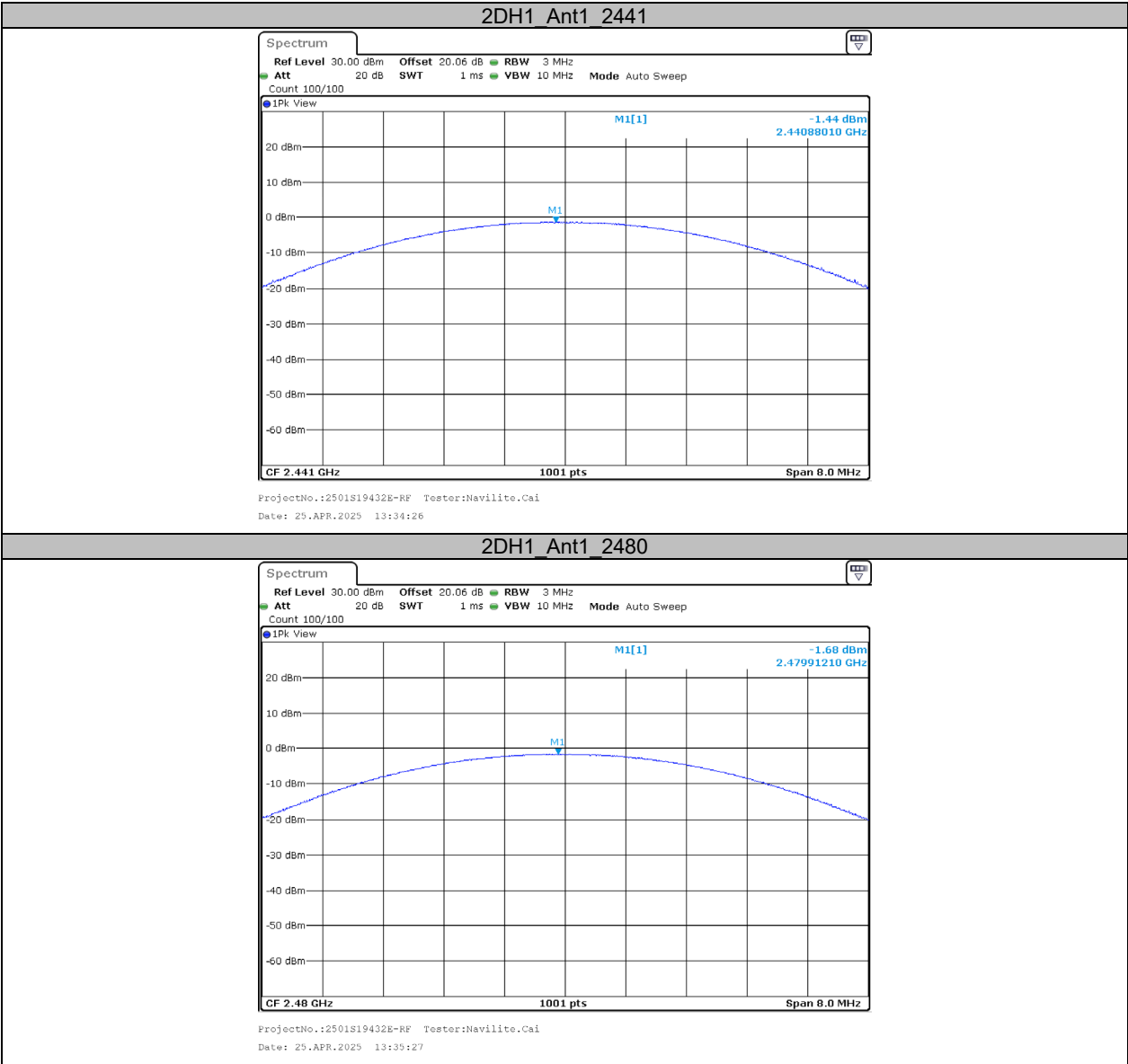
Appendix C: Maximum conducted output power**Test Result**

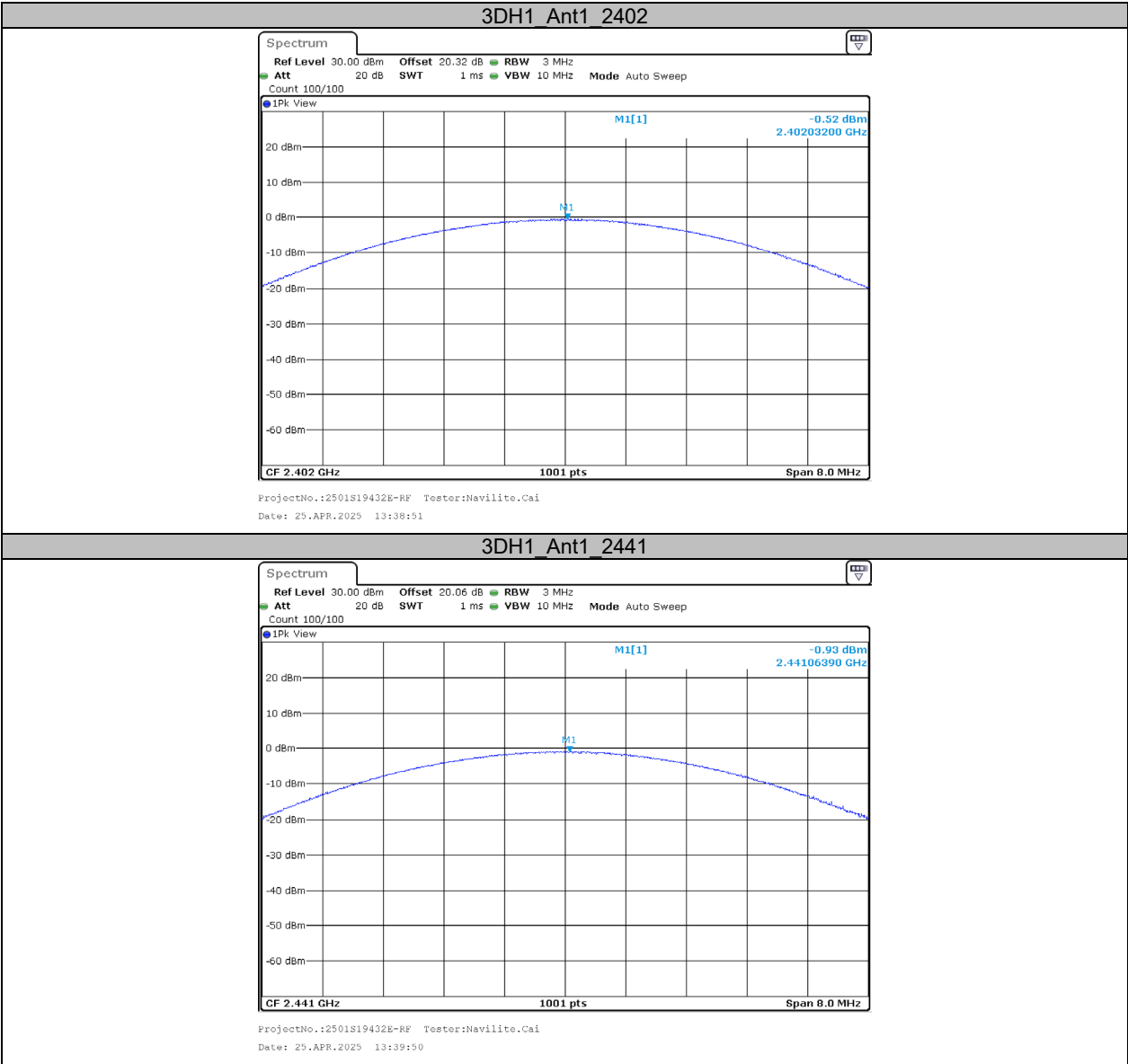
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH1	Ant1	2402	-1.85	≤20.97	PASS
		2441	-1.87	≤20.97	PASS
		2480	-2.39	≤20.97	PASS
2DH1	Ant1	2402	-1.09	≤20.97	PASS
		2441	-1.44	≤20.97	PASS
		2480	-1.68	≤20.97	PASS
3DH1	Ant1	2402	-0.52	≤20.97	PASS
		2441	-0.93	≤20.97	PASS
		2480	-1.17	≤20.97	PASS

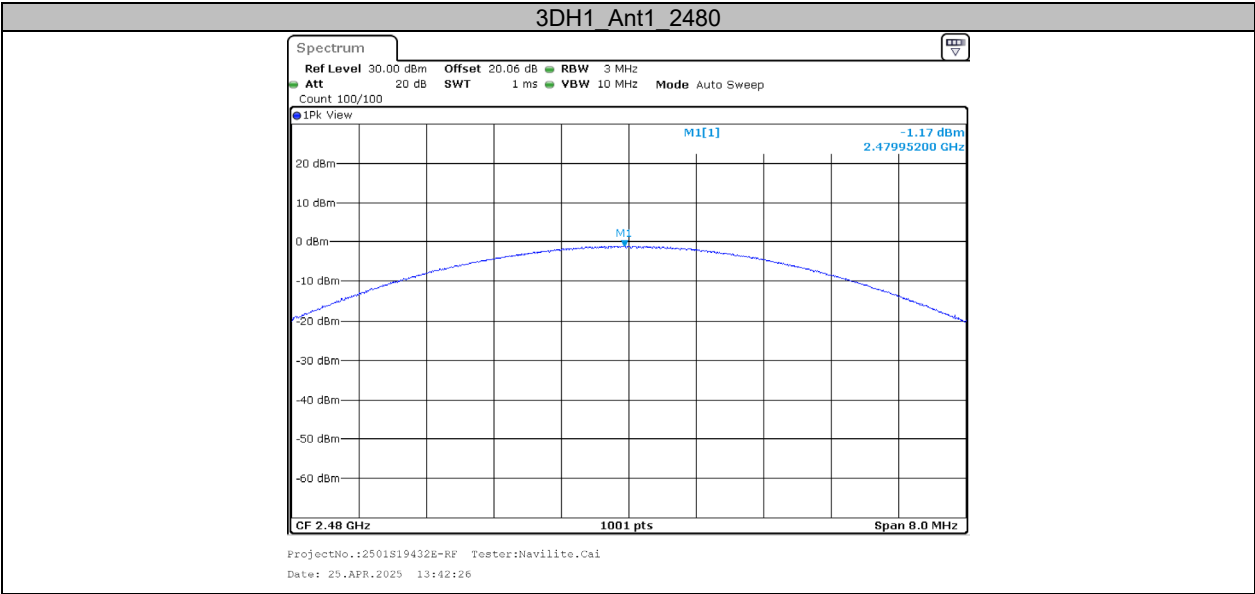
Test Graphs











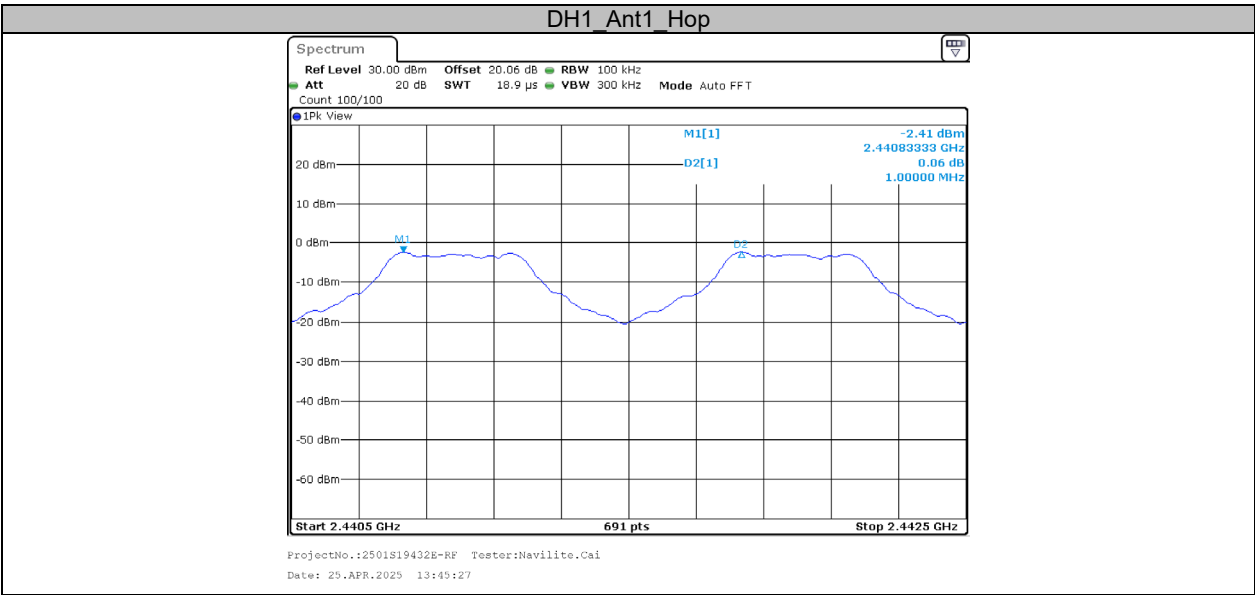
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	1.000	≥0.832	PASS

Note: Only the BDR (DH1 GFSK) mode result is reported since EDR 2DH1 ($\pi/4$ -DQPSK) and EDR 3DH1 (8DPSK) modes have the exact same channel plan, and the limit is the maximum 20dB bandwidth *2/3

Test Graphs

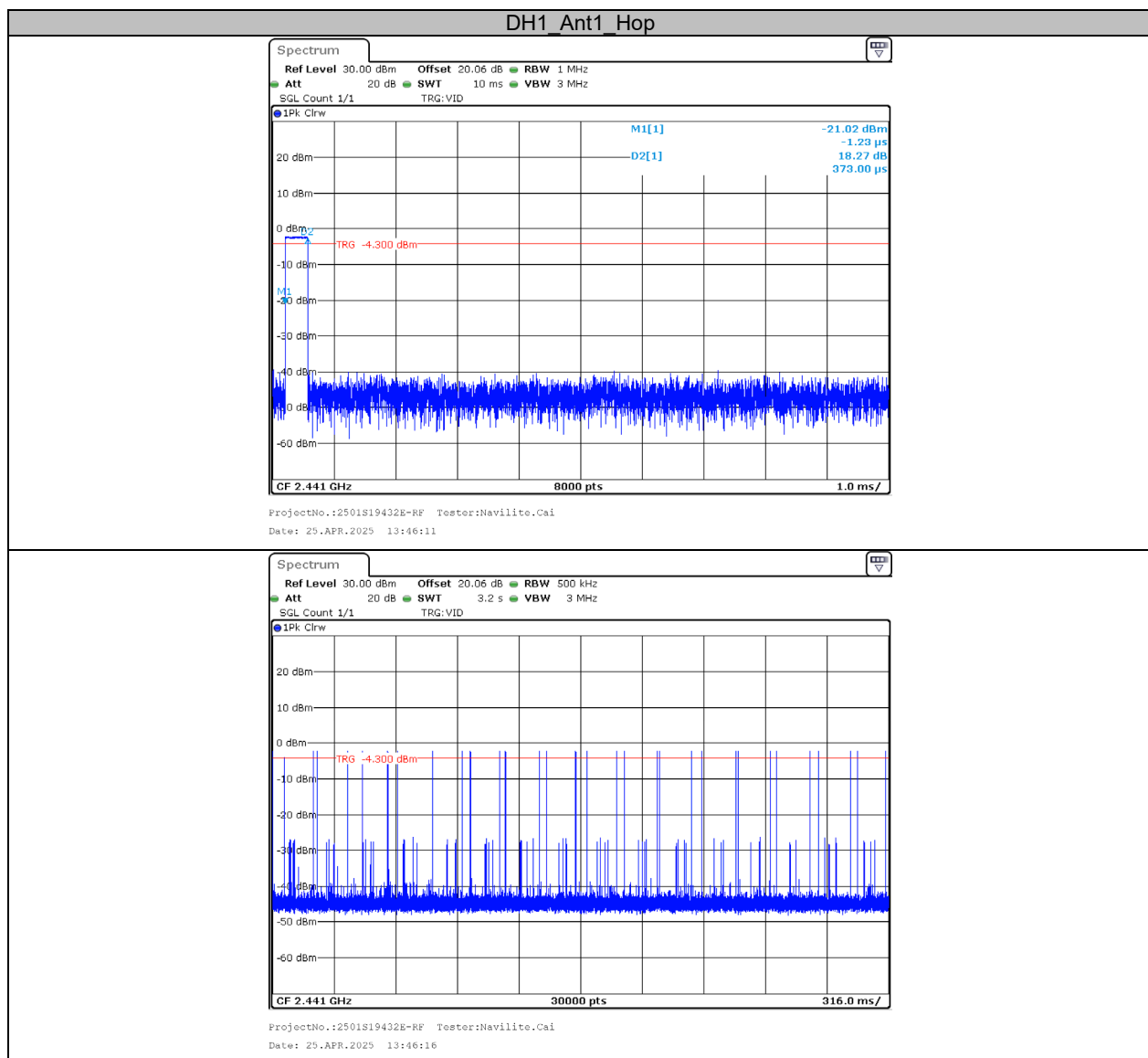


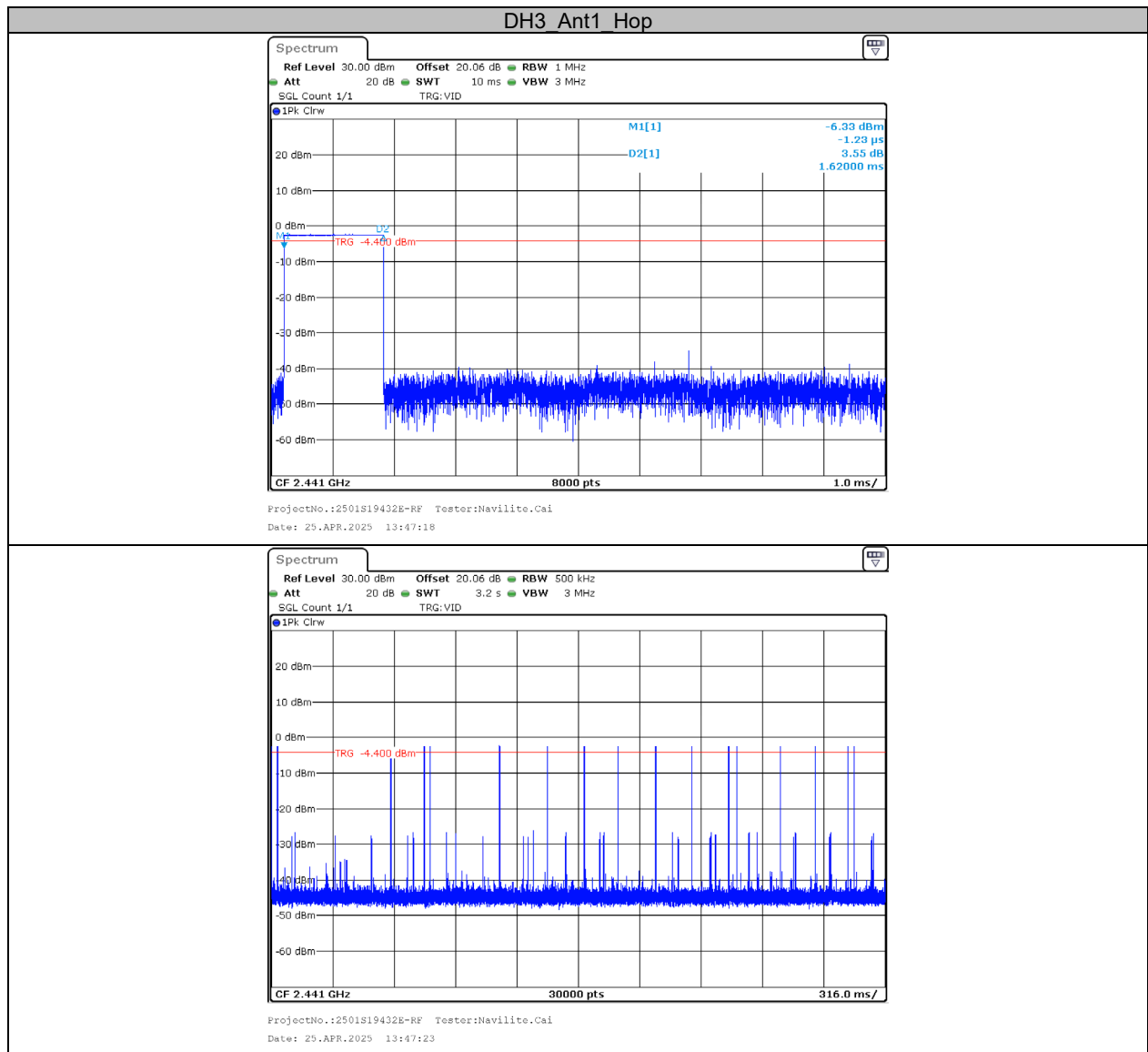
Appendix E: Time of occupancy

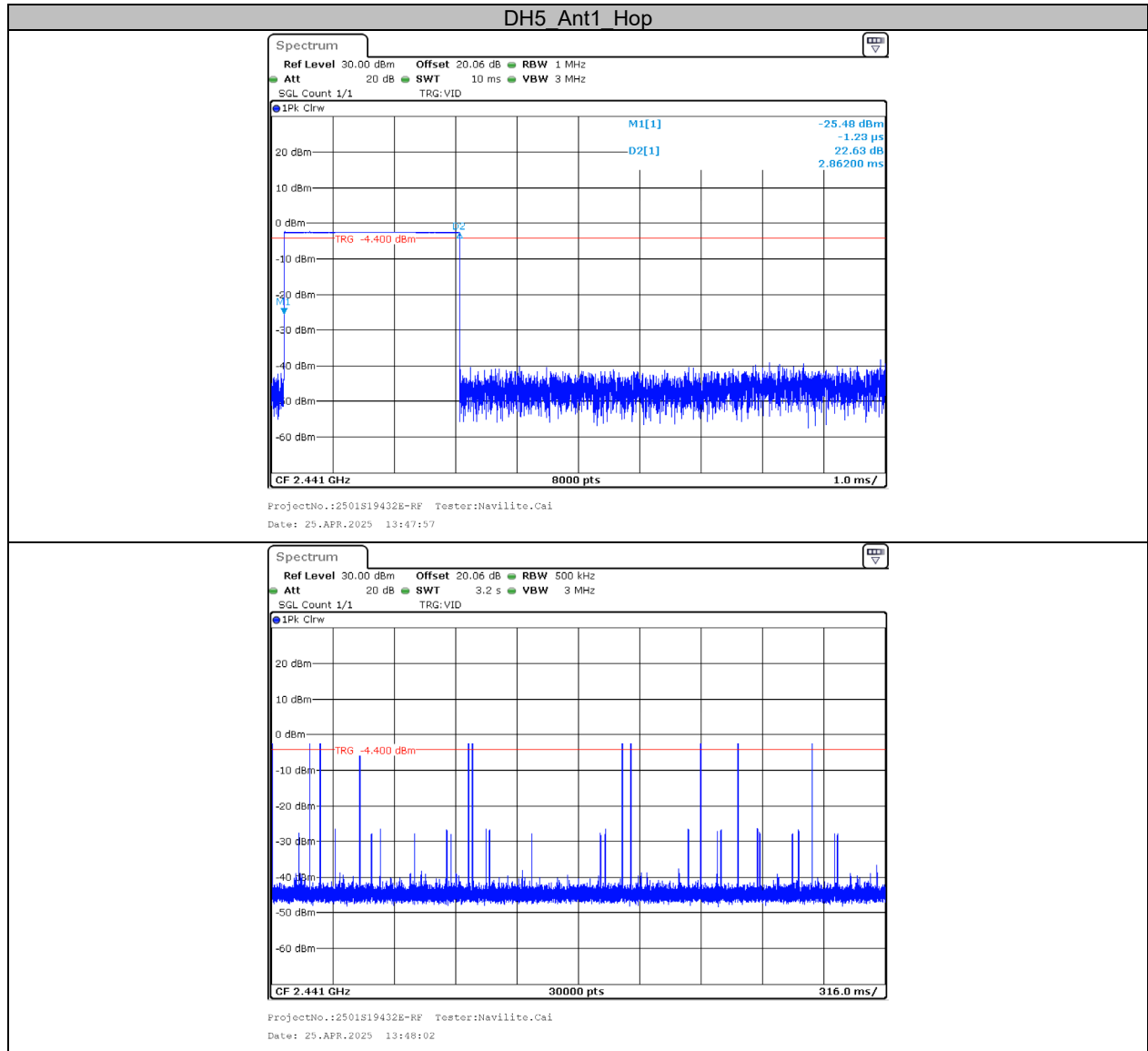
Test Result

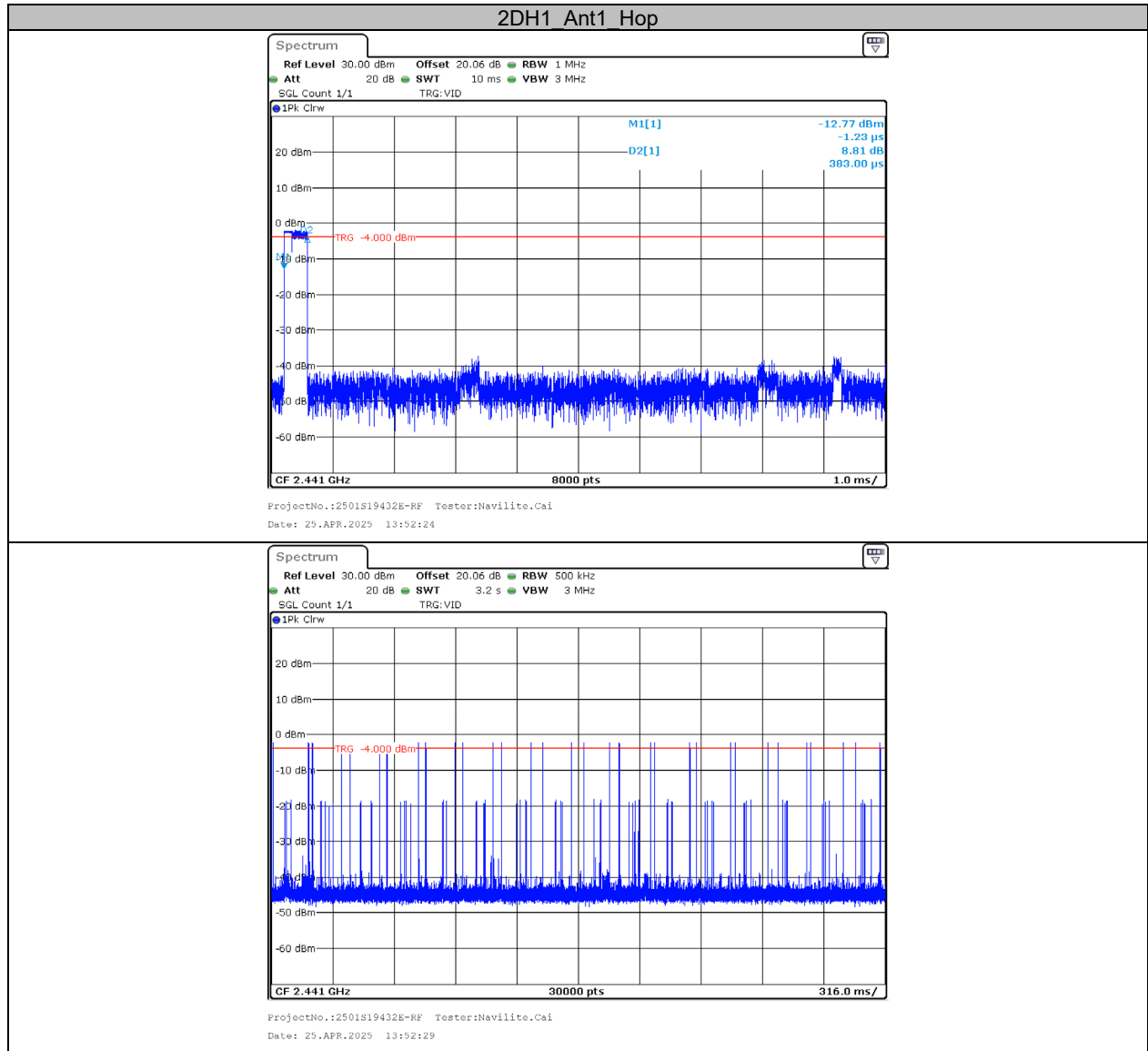
Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.373	330	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.620	170	0.275	≤0.4	PASS
DH5	Ant1	Hop	2.862	110	0.315	≤0.4	PASS
2DH1	Ant1	Hop	0.383	330	0.126	≤0.4	PASS
2DH3	Ant1	Hop	1.626	150	0.244	≤0.4	PASS
2DH5	Ant1	Hop	2.867	110	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.384	330	0.127	≤0.4	PASS
3DH3	Ant1	Hop	1.625	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.869	120	0.344	≤0.4	PASS

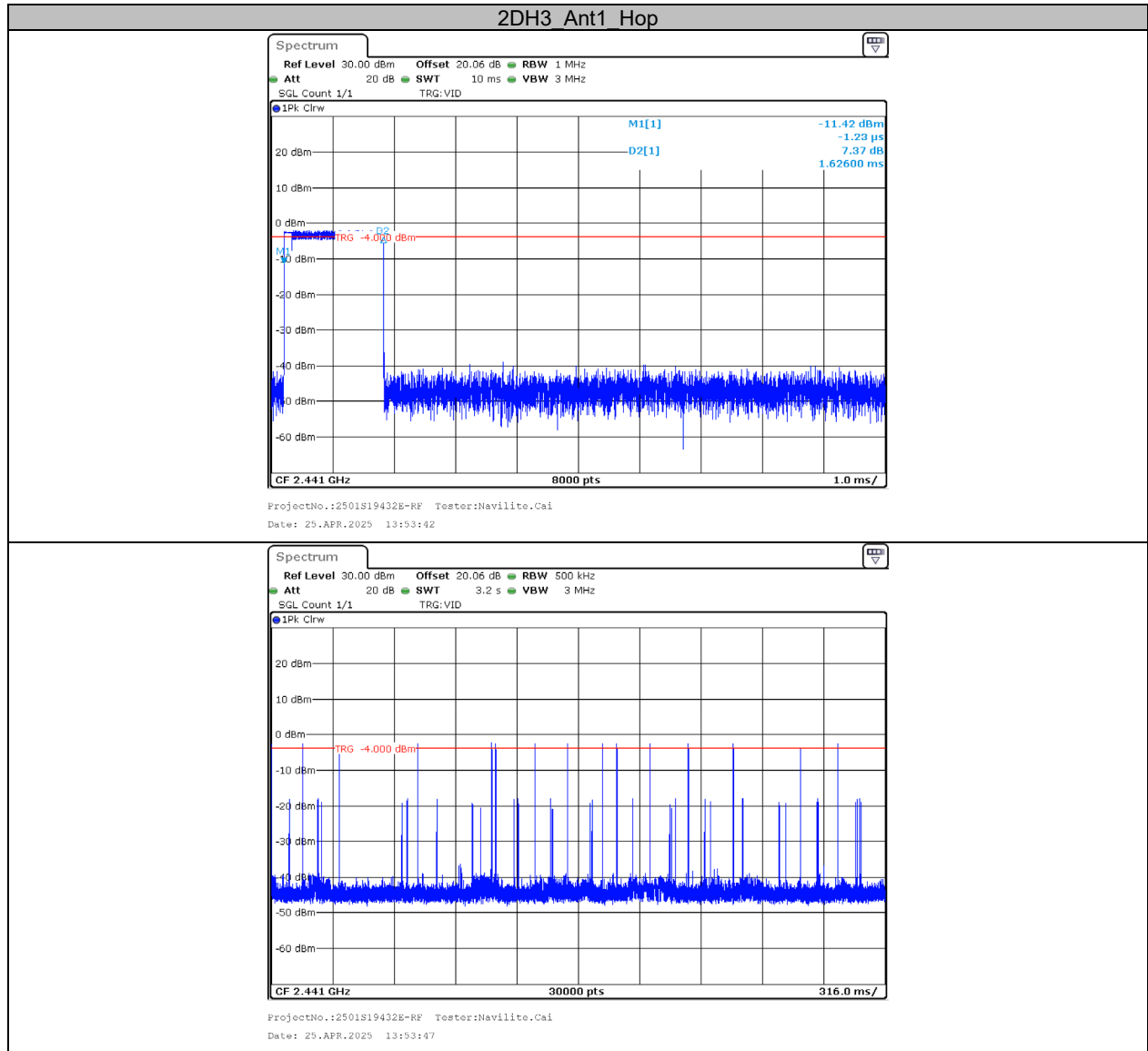
Test Graphs

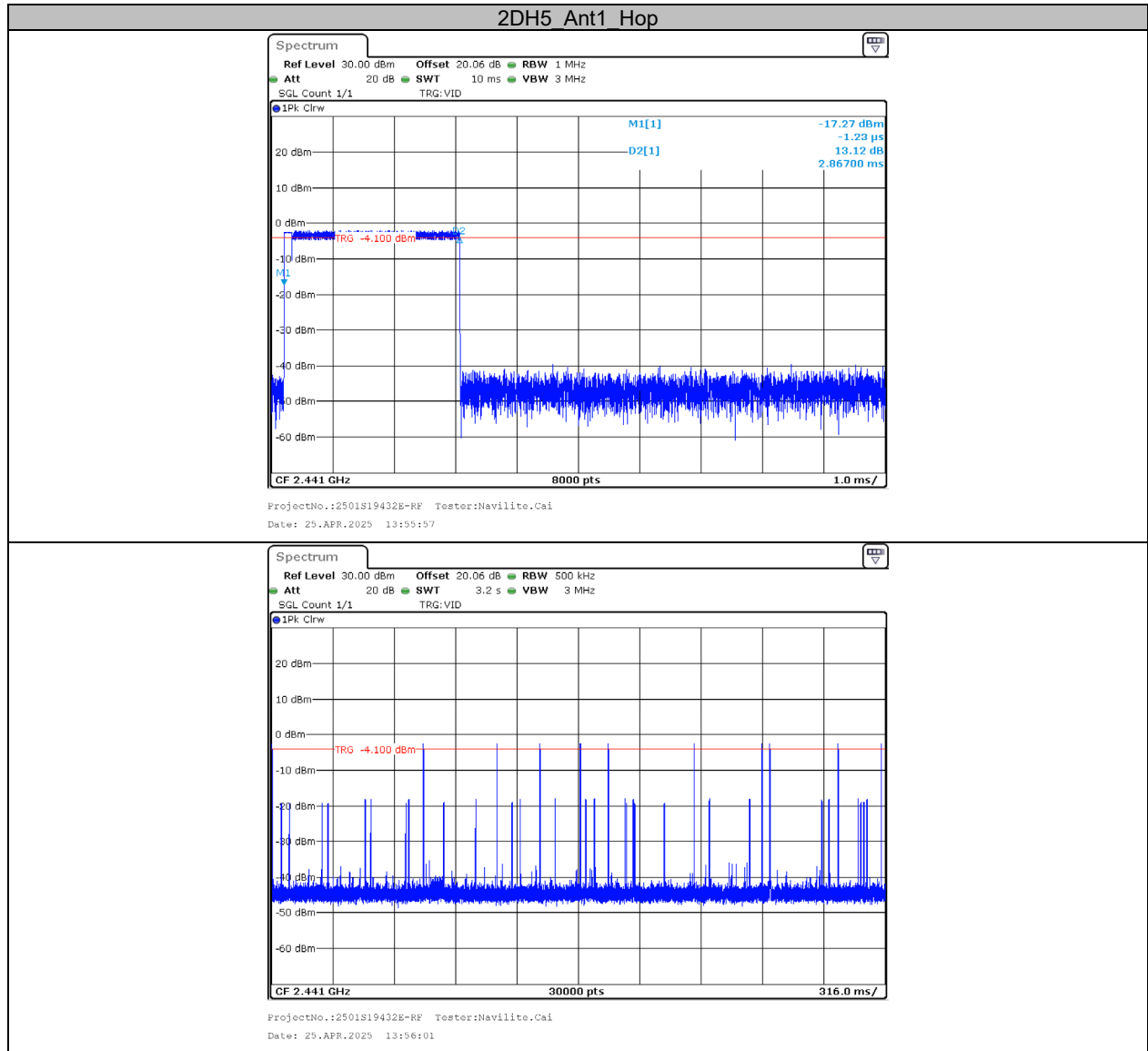


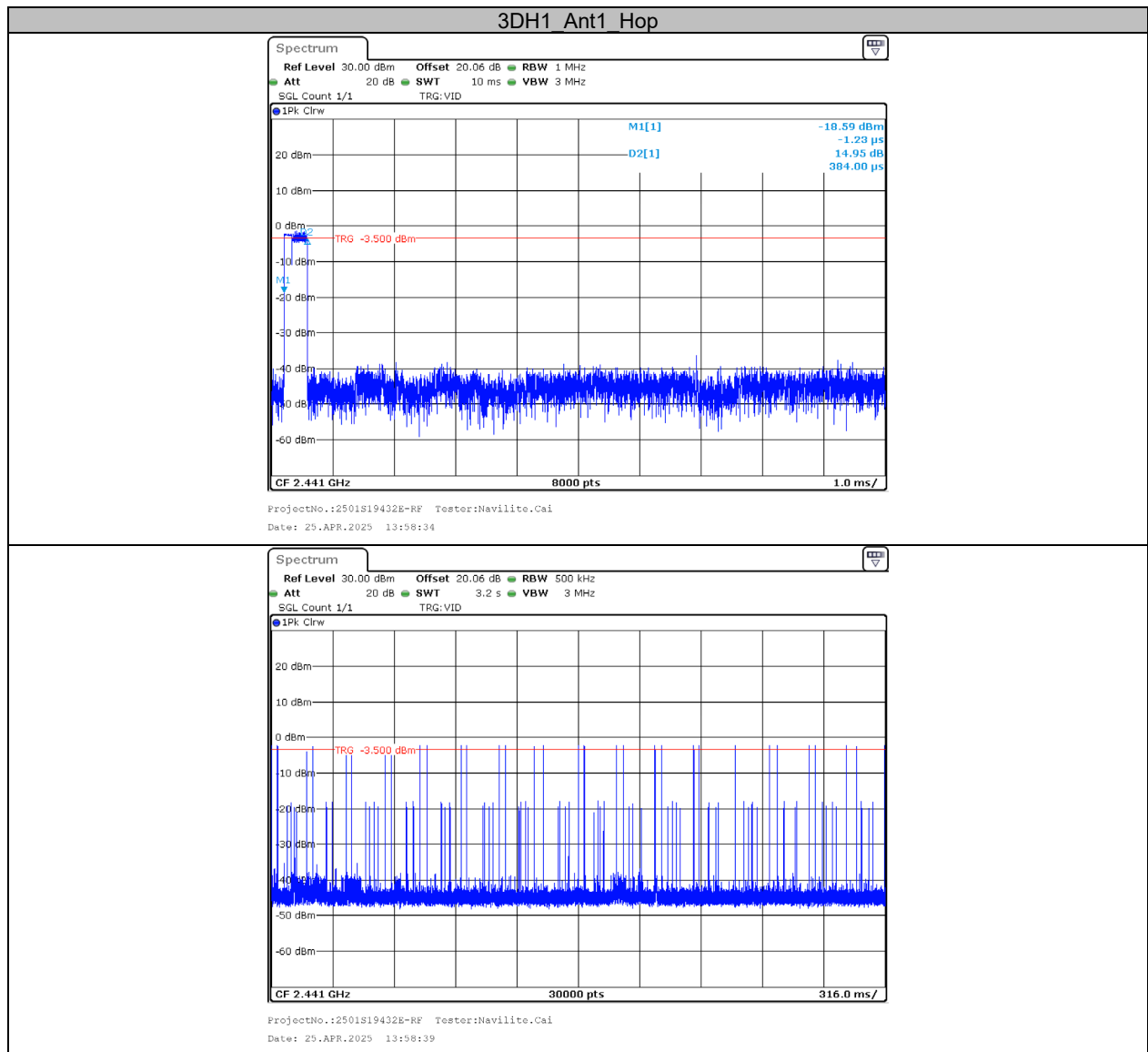


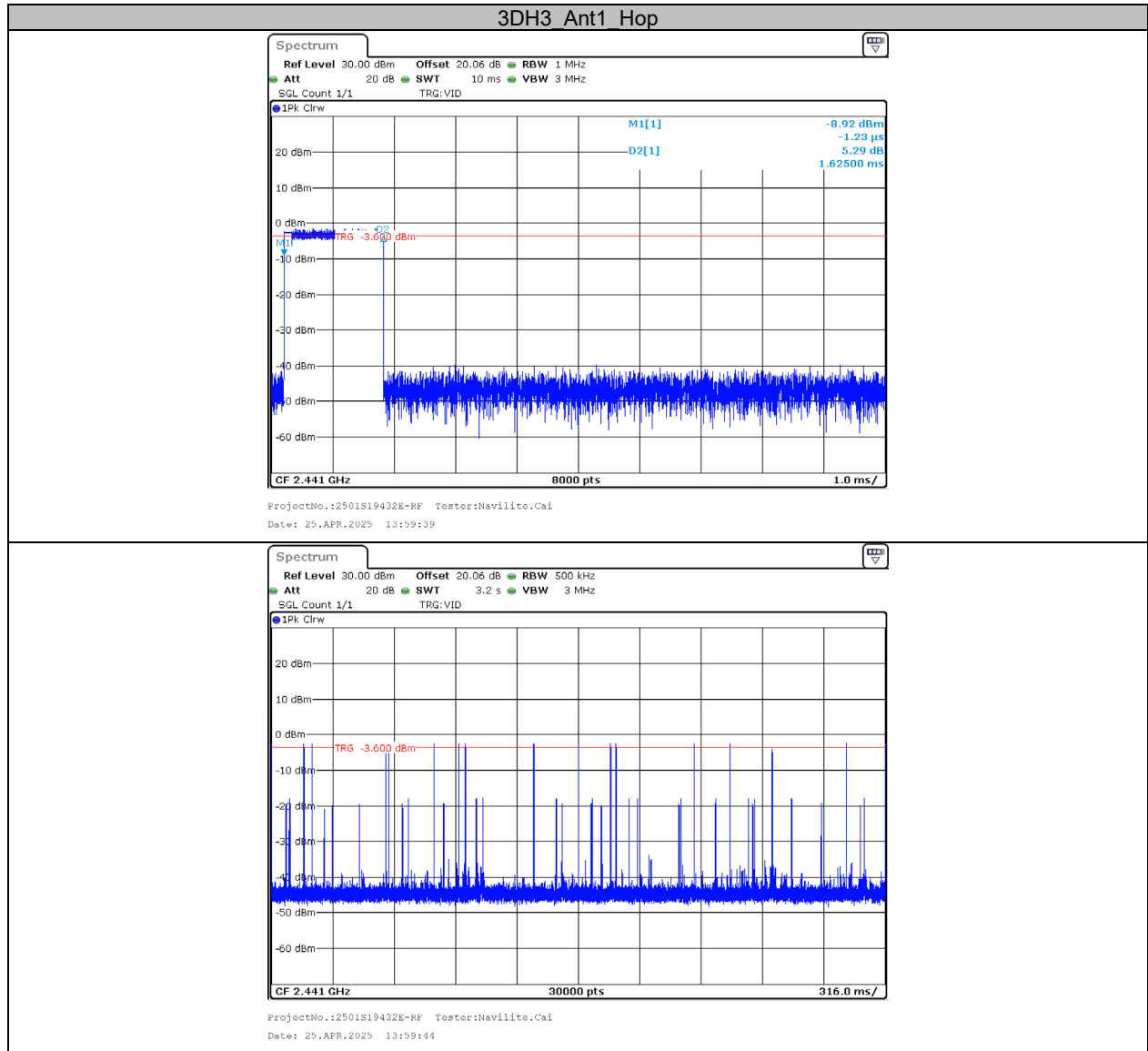


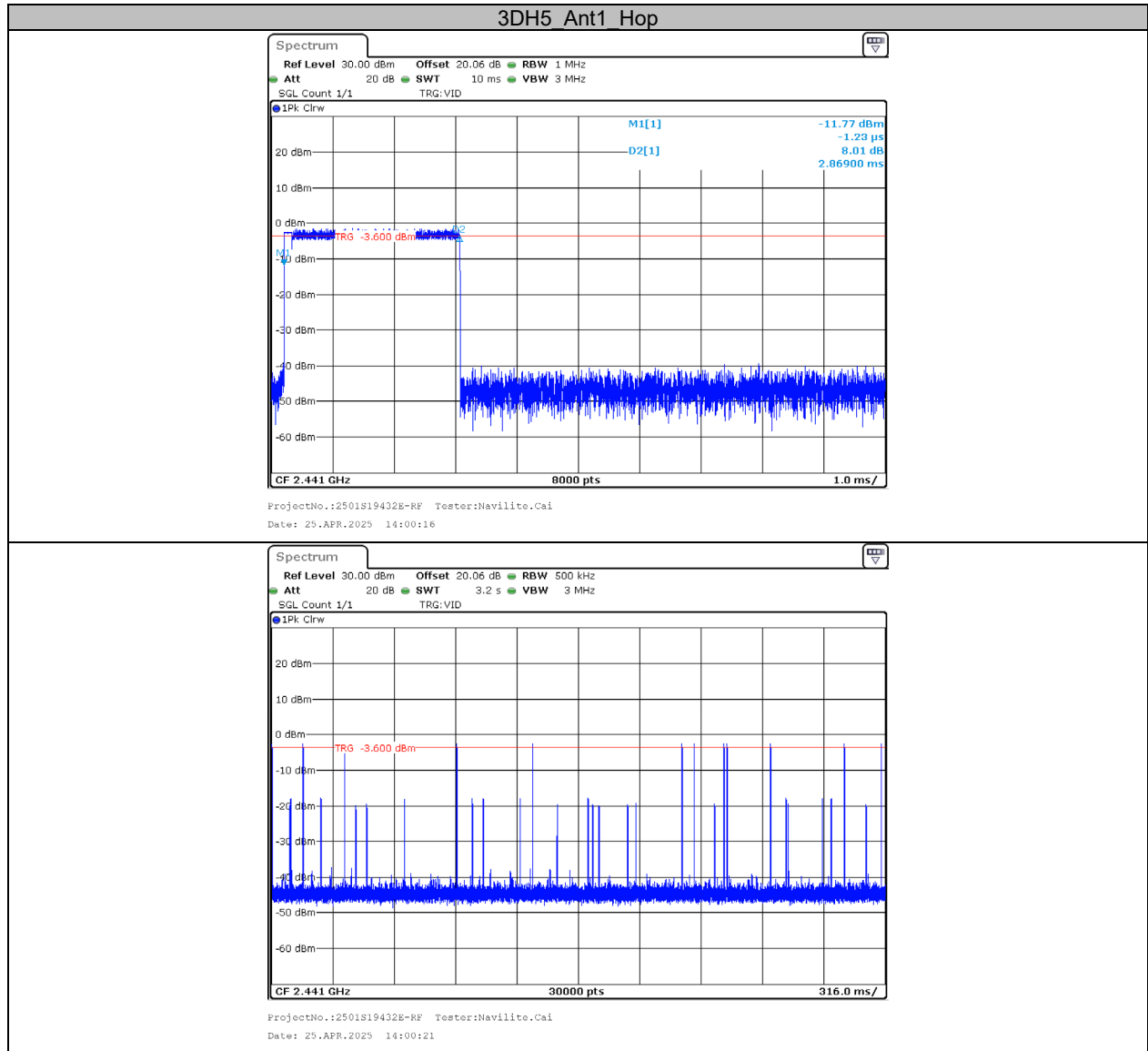






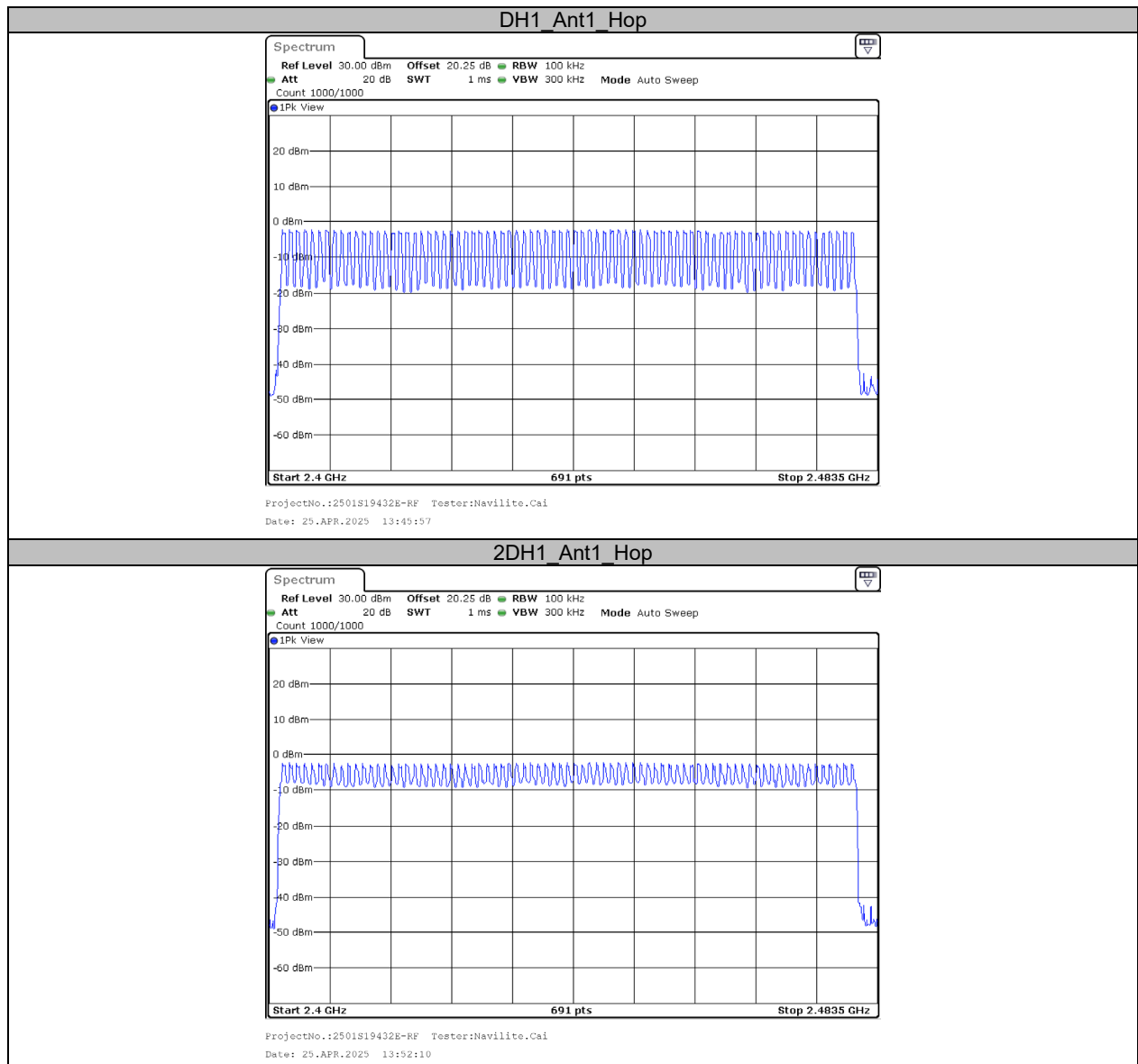


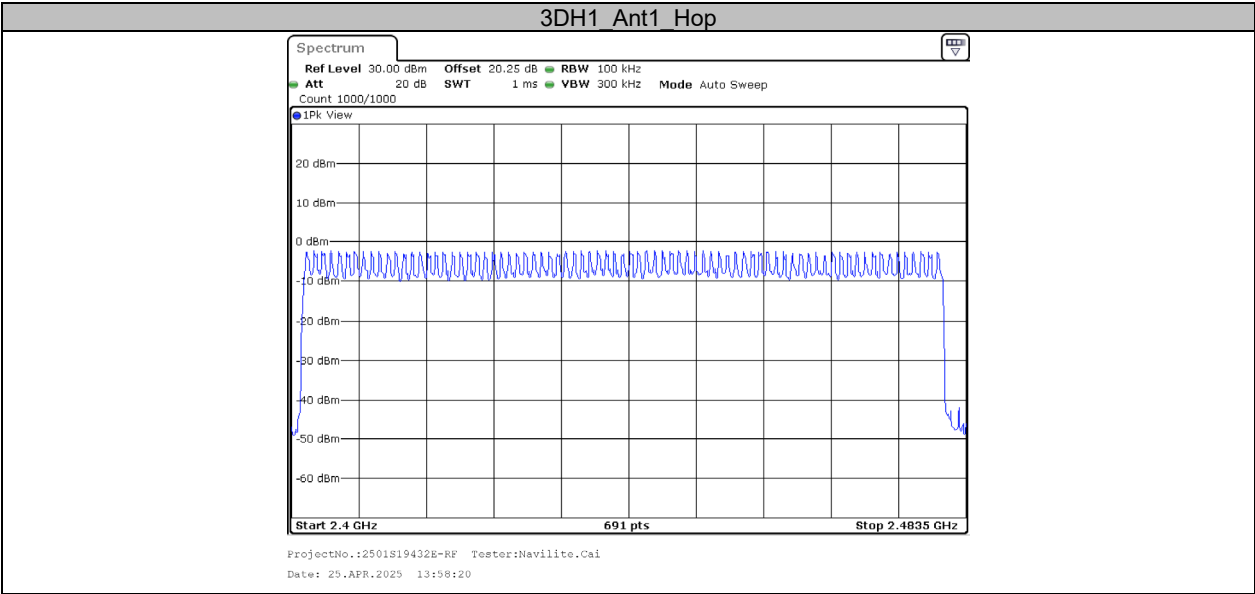




Appendix F: Number of hopping channels**Test Result**

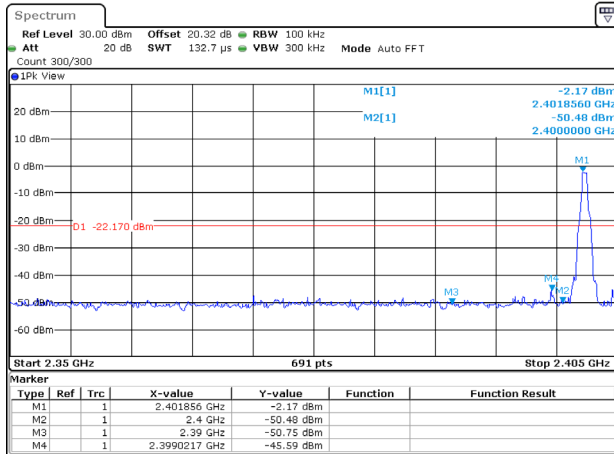
Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs



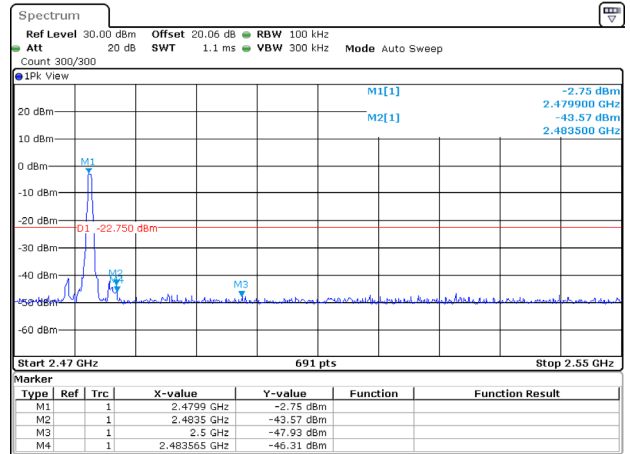
Appendix G: Band edge measurements Test Graphs

DH1_Ant1_Low_2402



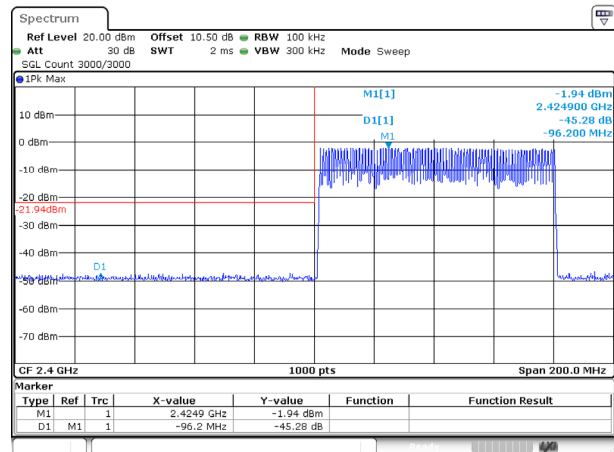
ProjectNo.:2501S19432E-RF Tester:Navillite.Cai
Date: 25.APR.2025 13:27:52

DH1_Ant1_High_2480



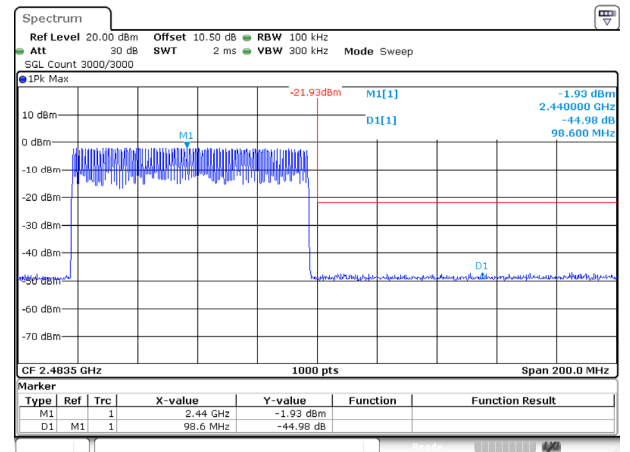
ProjectNo.:2501S19432E-RF Tester:Navillite.Cai
Date: 25.APR.2025 13:31:34

DH1_Hopping_Lower



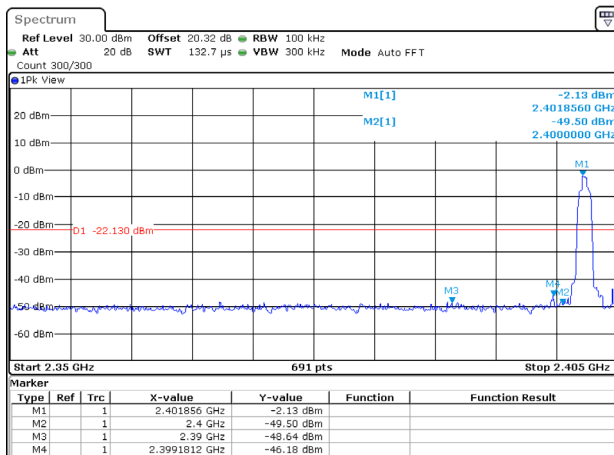
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:05:53

DH1_Hopping_Upper



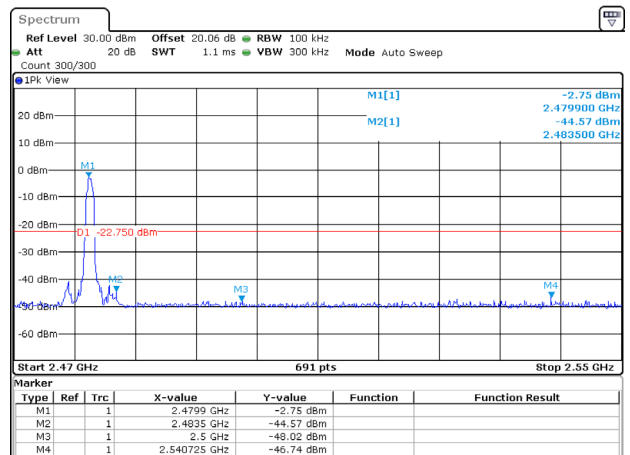
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:06:46

2DH1_Ant1_Low_2402



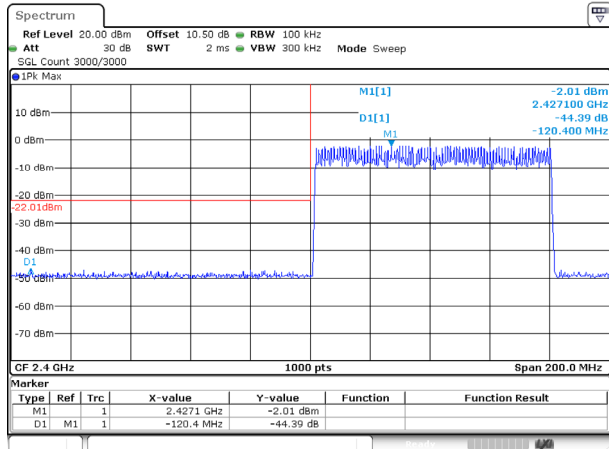
ProjectNo.:2501S19432E-RF Tester:Navillite.Cai
Date: 25.APR.2025 13:33:18

2DH1_Ant1_High_2480



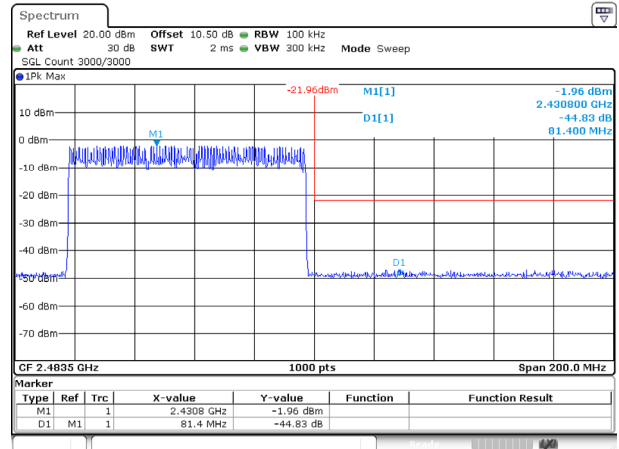
ProjectNo.:2501S19432E-RF Tester:Navillite.Cai
Date: 25.APR.2025 13:35:12

2DH1_Ant1_Low_Hop_2402



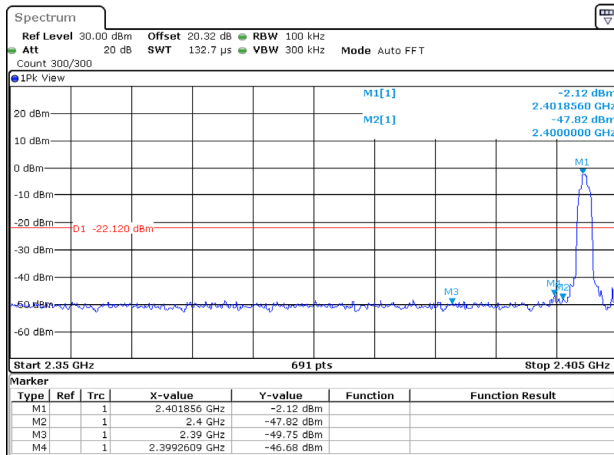
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:07:56

2DH1_Ant1_High_Hop_2480



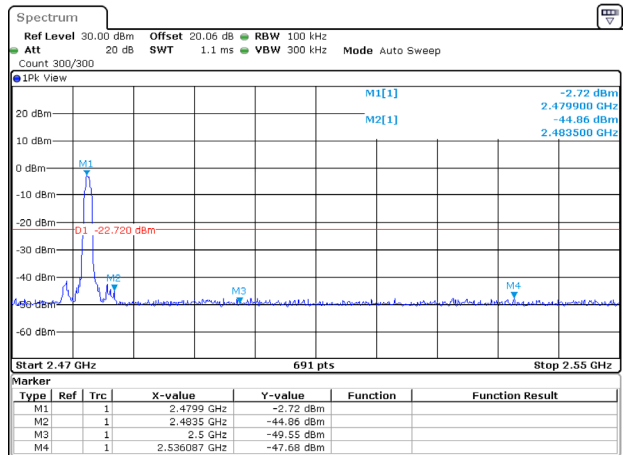
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:08:49

3DH1_Ant1_Low_2402



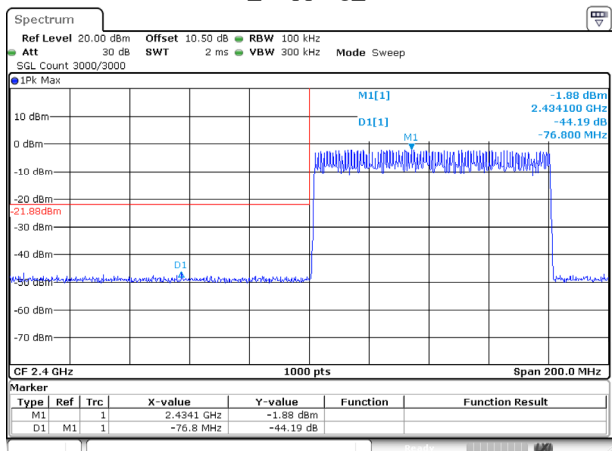
ProjectNo.:2501S19432E-RF Tester:Navillite,Cai
Date: 25.APR.2025 13:38:39

3DH1_Ant1_High_2480



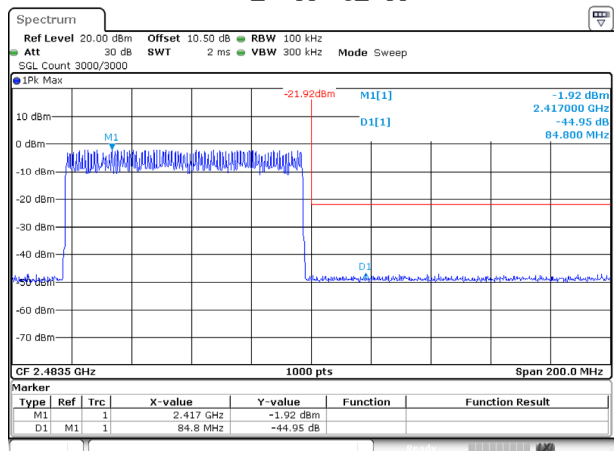
ProjectNo.:2501S19432E-RF Tester:Navillite,Cai
Date: 25.APR.2025 13:42:08

3DH1_Hopping_Lower



ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:10:00

3DH1_Hopping_Upper

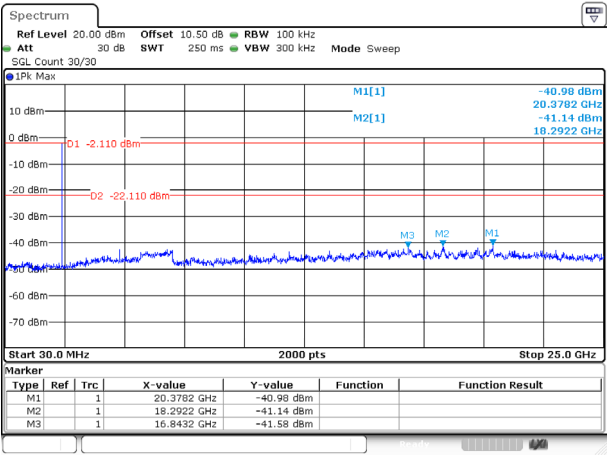


ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:10:53

Appendix H: Conducted Spurious Emission
Test Data

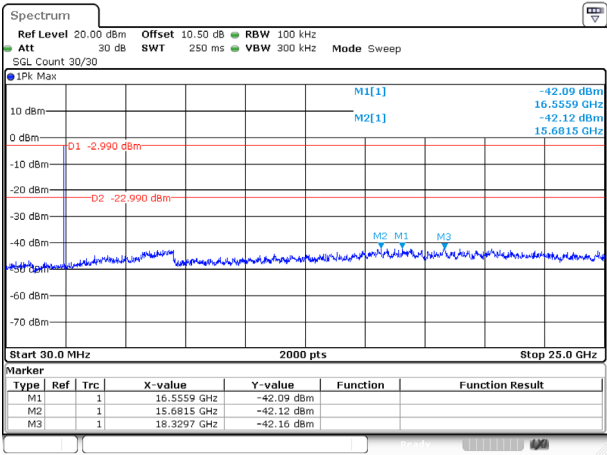
Test Graphs

DH1_Low



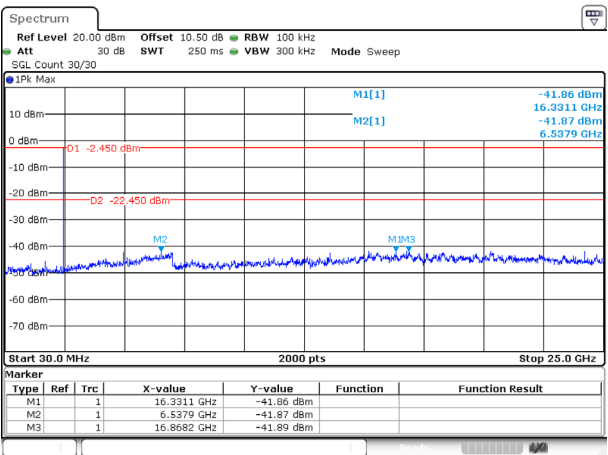
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:12:13

DH1_Middle



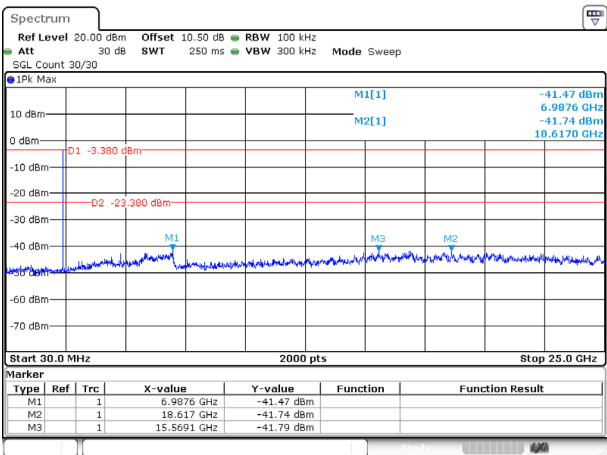
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:16:17

DH1_High



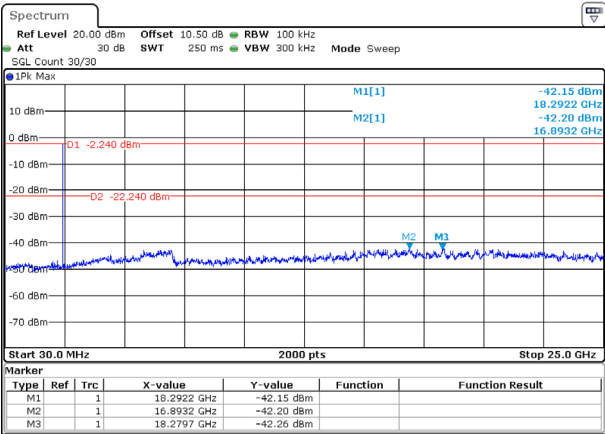
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:14:39

2DH1_Low



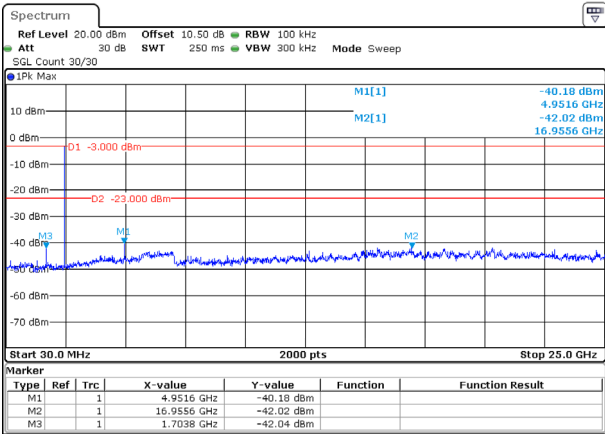
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:19:04

2DH1_Middle



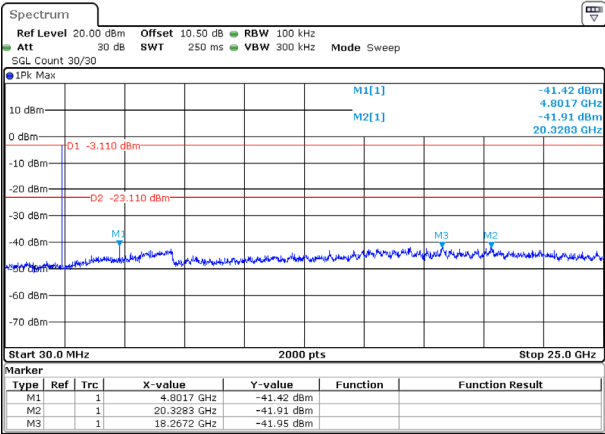
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:20:22

2DH1_High



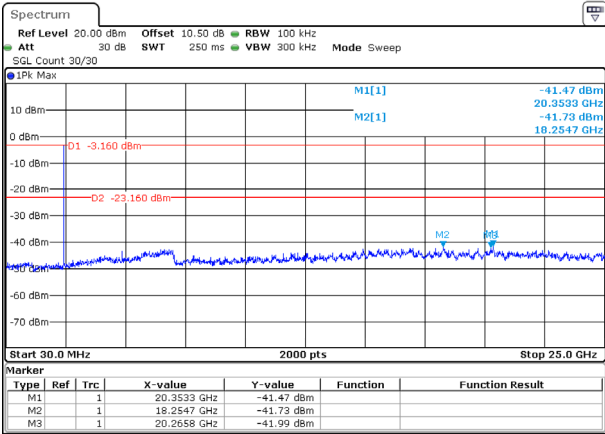
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:21:36

3DH1_Low



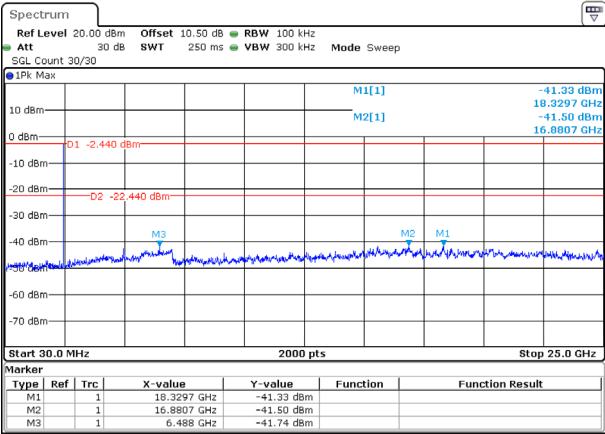
ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:27:00

3DH1_Middle



ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:28:01

3DH1_High



ProjectNo.:2501S19432E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 14:33:50

**** END OF REPORT ****