

Prüfbericht-Nr.: <i>Test report no.:</i>	CN26U7C4 001	Auftrags-Nr.: <i>Order no.:</i>	48285229	Seite 1 von 29 Page 1 of 29
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-12-05	
Auftraggeber: <i>Client:</i>	KAGA FEI Co., Ltd. Gunseisha ANNEX Bldg. 5th floor, 382-1, Kaminamie-machi, Takasaki, Gunma, 370-0801, Japan			
Prüfgegenstand: <i>Test item:</i>	Bluetooth Low Energy Module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	ES4L15			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report (ANT)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-12-16			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004165731-009 A004165731-007			
Prüfzeitraum: <i>Testing period:</i>	2026-01-07 - 2026-01-15			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland Taiwan Ltd. New Taipei Branch			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
zusammengestellt von: <i>compiled by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	Ausstellungsdatum: <i>Issue date:</i>			
Stellung / Position:	Stellung / Position:			
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>				
Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet				
5 = poor N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(3)	Peak Output Power	Pass
5.1.3	15.247(a)(2)	6 dB Bandwidth	Pass
5.1.3	2.1049	99% Occupied Bandwidth	Pass
5.1.4	15.247(e)	Power Spectral Density	Pass
5.1.5	15.247(d)	Conducted Spurious Emissions and Band Edges	Pass
5.1.6	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF CONDUCTED

APPENDIX B - TEST RESULT OF RADIATED EMISSIONS & MAINS CONDUCTED EMISSION

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2026-02-06

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Conducted

Appendix B - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.247
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10-2020
KDB 558074 D01 15.247 Meas Guidance v05r02

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

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2. Test Sites

2.1 Test Laboratory

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491 (TW3567)
ISED Registration No.: 25563 (TW3567)

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth Low Energy Module. It contains a ANT compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Bluetooth Low Energy Module
Type Identification	ES4L15
FCC ID	2A6NFES4L15

Technical Specification of EUT

Item	EUT information
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Number	79
Data Rate	1Mbps
Operation Voltage	3.0 Vdc
Modulation	GFSK
Maximum Output Power (mW)	5.38
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

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3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

Frequency (MHz)	Power Setting
2402	8
2441	8
2480	8

4.2 Carrier Frequency and Channel

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2	2402	22	2422	42	2442	62	2462
3	2403	23	2423	43	2443	63	2463
4	2404	24	2424	44	2444	64	2464
5	2405	25	2425	45	2445	65	2465
6	2406	26	2426	46	2446	66	2466
7	2407	27	2427	47	2447	67	2467
8	2408	28	2428	48	2448	68	2468
9	2409	29	2429	49	2449	69	2469
10	2410	30	2430	50	2450	70	2470
11	2411	31	2431	51	2451	71	2471
12	2412	32	2432	52	2452	72	2472
13	2413	33	2433	53	2453	73	2473
14	2414	34	2434	54	2454	74	2474
15	2415	35	2435	55	2455	75	2475
16	2416	36	2436	56	2456	76	2476
17	2417	37	2437	57	2457	77	2477
18	2418	38	2438	58	2458	78	2478
19	2419	39	2439	59	2459	79	2479
20	2420	40	2440	60	2460	80	2480
21	2421	41	2441	61	2461		

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4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	Radio Test Tool
---------------	-----------------

The samples were used as follows:

A004165731-009

A004165731-007

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Z-plane**.
2. "-" means no effect.

Antenna Port Conducted Measurement

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2402 to 2480	2402, 2441, 2480	1

Radiated Spurious Emissions (Above 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2402 to 2480	2402, 2441, 2480	1

Radiated Spurious Emissions (Below 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2402 to 2480	2402	1

Mains Conducted Emission

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2402 to 2480	2402	1

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Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	20.5-22.1 °C	60.2-62.4 %	Blake Wang / Andy Chen
Radiated Spurious Emissions above 1 GHz	22.7-25.5 °C	36-40 %	Roger Liao
Radiated Spurious Emissions below 1 GHz	22.7-25.5 °C	36-40 %	Roger Liao
Mains Conducted Emission	23.7 °C	64 %	Chuan Chu

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

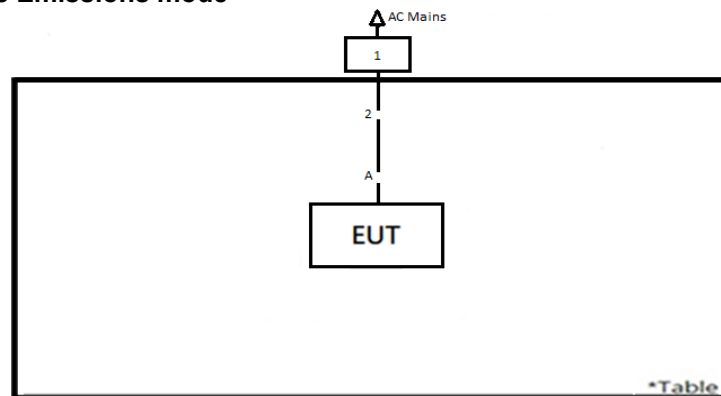
None

Support Unit

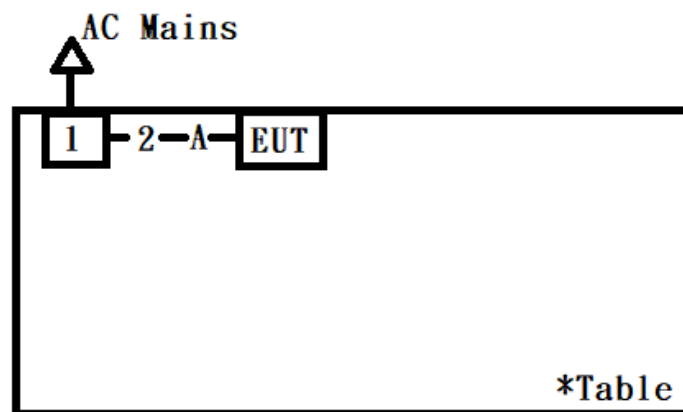
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
A	Cable	TUV JP	NA	N/A	NO	NO	50	Radiated
1	DC Power Supply	Gwinstek	GPS-3303	N/A	-	-	-	
2	Cable	TUV	TUV-01	N/A	NO	NO	200	
A	Cable	TUV JP	NA	N/A	NO	NO	50	Mains Conducted
1	DC Power Supply	Gwinstek	GPS-3303	N/A	-	-	-	
2	Cable	TUV	TUV-002	N/A	NO	NO	50	
-	Notebook	HP	HP15S-du0007TX	CND93662WV	-	-	-	--
-	Power supply	Radio Tek	KEITHLEY	2303	-	-	-	--
-	USB Cable	TUV JP	N/A	A004165731-001	NO	NO	150	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>

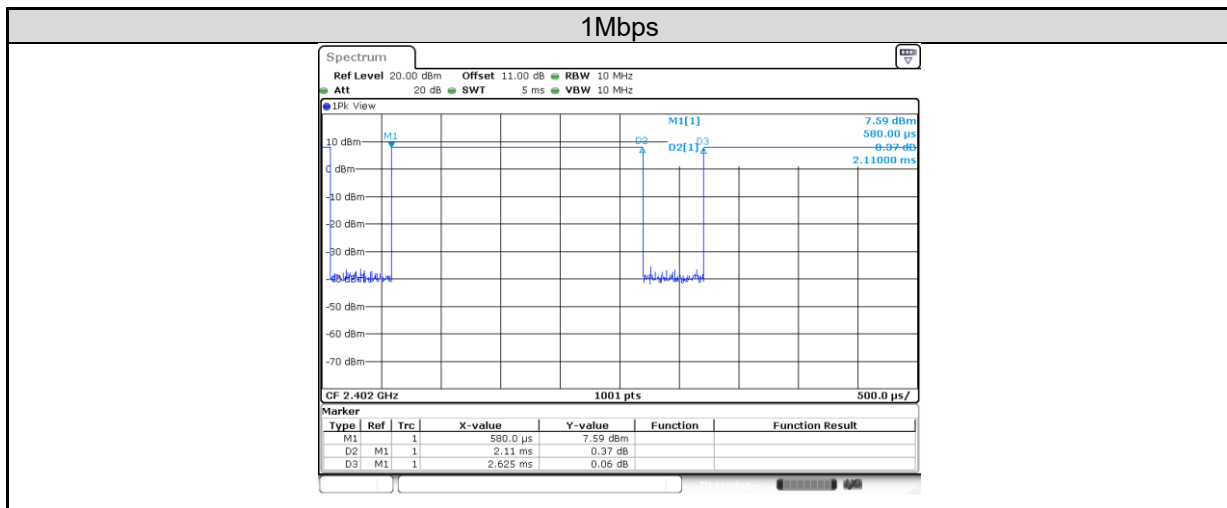


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4.6 Duty Cycle of Test Signal

Mode	On + Off Time (ms)	On Time (ms)	Duty Cycle (%)	Duty Factor (dB)
1Mbps	2.63	2.11	80.38	0.95



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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of -4.8 dBi. The antenna is monopole antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.
Refer to EUT photo for details.

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5.1.2 Peak Output Power

Limit 1 watt (30 dBm)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2025/02/26	2026/02/25	2026/01/07	2026/01/15
Power Sensor	Anritsu	MA2411B	1725269	2025/02/26	2026/02/25	2026/01/07	2026/01/15

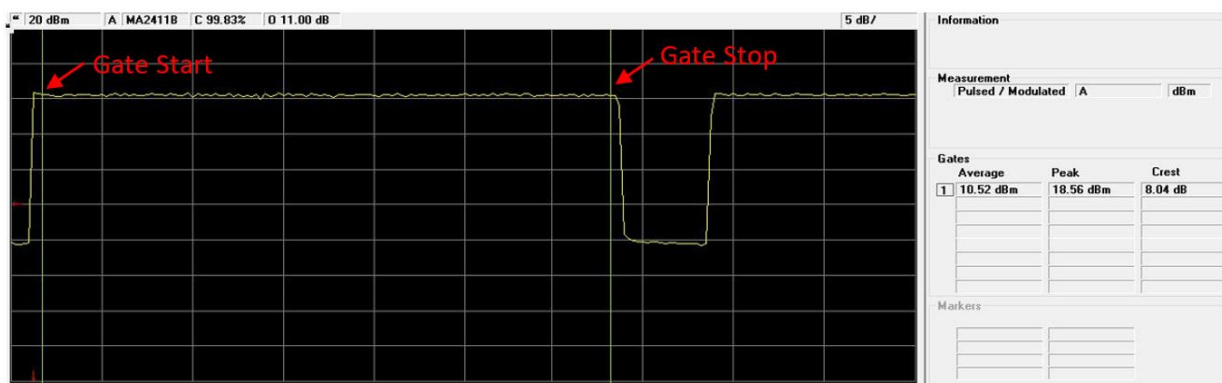
Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Gate Setup:

1. Select the [Gates] tab in the software.
2. Check the box (e.g., Gate 1) to display it on the trace.
3. Set Gate Position
 - Drag the gate line with the mouse to the desired point on the waveform, or
 - Enter Values using the [Set] button and input start/stop times.
4. Switch to the next measurement channel and repeat the same gate setup procedure.
5. The instrument calculates average/peak power only within the defined gate interval.



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<1Mbps>

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
Low Channel	2402	7.31	5.38	30
Middle Channel	2441	7.26	5.32	30
High Channel	2480	7.16	5.20	30

Average Power

<1Mbps>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2402	7.23	5.28
Middle Channel	2441	7.19	5.24
High Channel	2480	7.08	5.11

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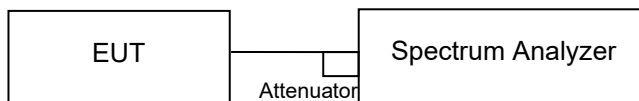
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5.1.3 6 dB Bandwidth and 99% Occupied Bandwidth

Limit The minimum 6 dB bandwidth shall be at least 500 kHz.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2025/05/14	2026/05/13	2026/01/07	2026/01/15

Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- For 99% occupied bandwidth measurement, the transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

Test Results

Please refer to Appendix A.

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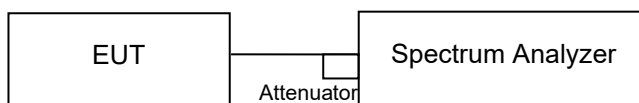
5.1.4 Power Spectral Density

Limit

The power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2025/05/14	2026/05/13	2026/01/07	2026/01/15

Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Results

Please refer to Appendix A.

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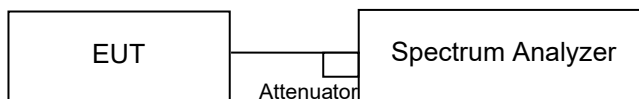
5.1.5 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

Limit

20dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2025/05/14	2026/05/13	2026/01/07	2026/01/15

Test Procedure

Measurement procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement procedure OOBE

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

Test Results

Please refer to Appendix A.

5.1.6 Radiated Spurious Emissions and Band Edges

Limit

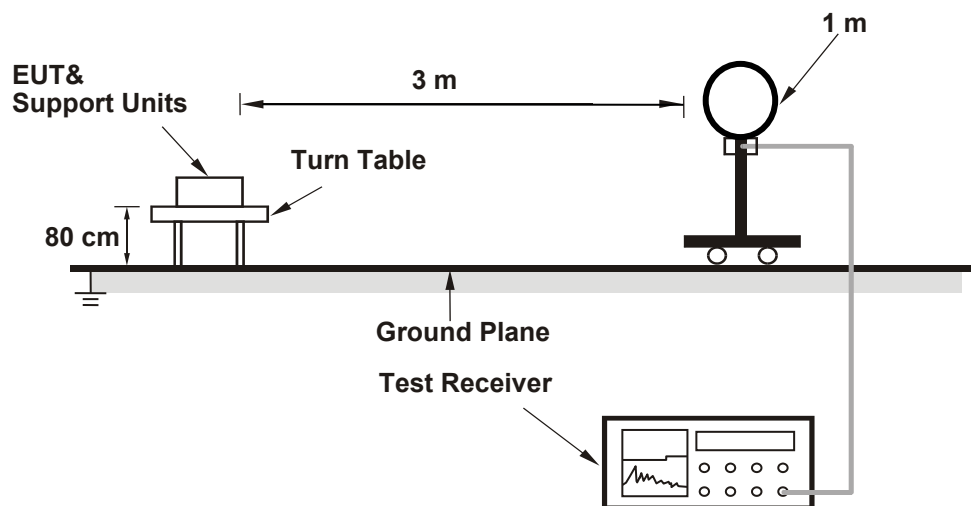
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

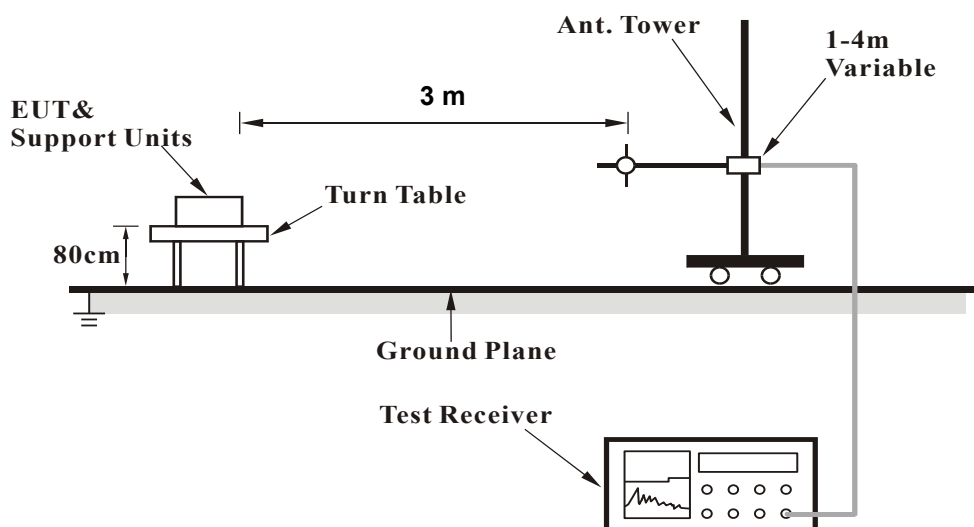
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

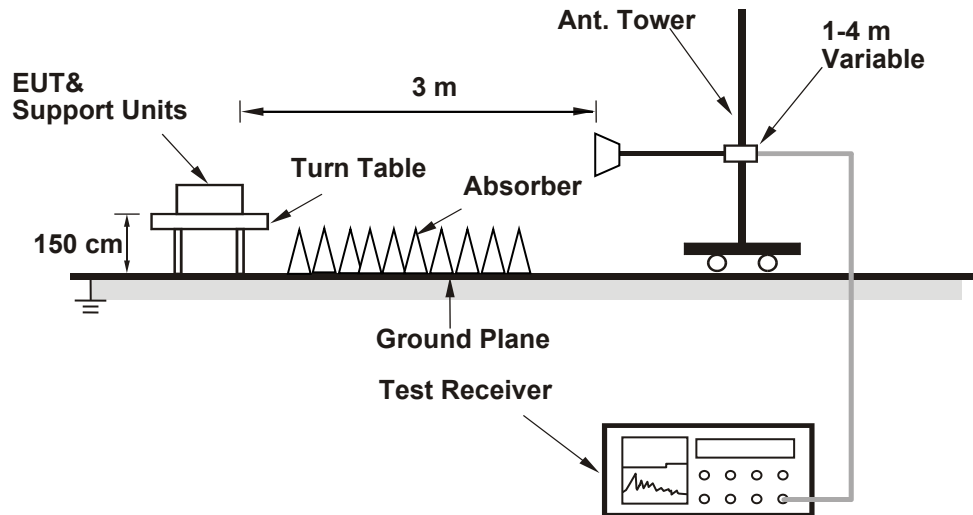
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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Test Instruments

Test Period: 2026-01-08 ~ 2026-01-09

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101508	2025/4/29	2026/4/28
Horn Antenna	ETS-Lindgren	3117	00218929	2025/11/20	2026/11/19
Horn Antenna	SCHWARZBECK	BBHA 9170	00890	2025/4/30	2026/4/29
HF-AMP + AC source	EMCI	EMC051845SE	980633	2025/1/15	2026/1/14
HF-AMP + AC source	EMCI	EMC051845SE	980656	2025/1/15	2026/1/14
Microwave Cable	EM	EM102A-KMKM-700	504231101002	2025/5/23	2026/5/22
Microwave Cable	EM	102A-KMKM-200	#01	2025/1/17	2026/1/16
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801026/2EA	2025/6/6	2026/6/5
Test Software	Audix E3	15914a_20191106_tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2025/02/13	2026/02/12
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2025/04/08	2026/04/07
LF-AMP	Agilent	8447D	2727A05146	2025/01/15	2026/01/14
Microwave Cable	EM	RG 214 U/2*11N/7M	24038601	2025/02/20	2026/02/19
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2025/04/30	2026/04/29
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2025/04/30	2026/04/29
Test Software	Audix E3	15914a_20191106_tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2025/02/13	2026/02/12
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2025/12/16	2026/12/15
Microwave Cable	EM	RG 214 U/2*11N/7M	24038601	2025/02/20	2026/02/19
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2025/04/30	2026/04/29
Test Software	Audix E3	15914a_20191106_tuv	PK-001087	N/A	N/A

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

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5.2 Mains Emission

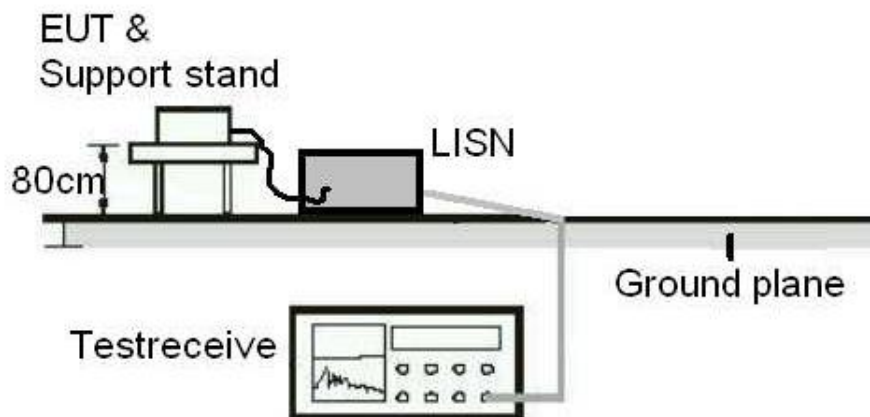
5.2.1 Mains Conducted Emission

Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101243	2025/08/06	2026/08/05
EMI Test Receiver	R&S	ESCI	101094	2025/11/19	2026/11/18

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Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

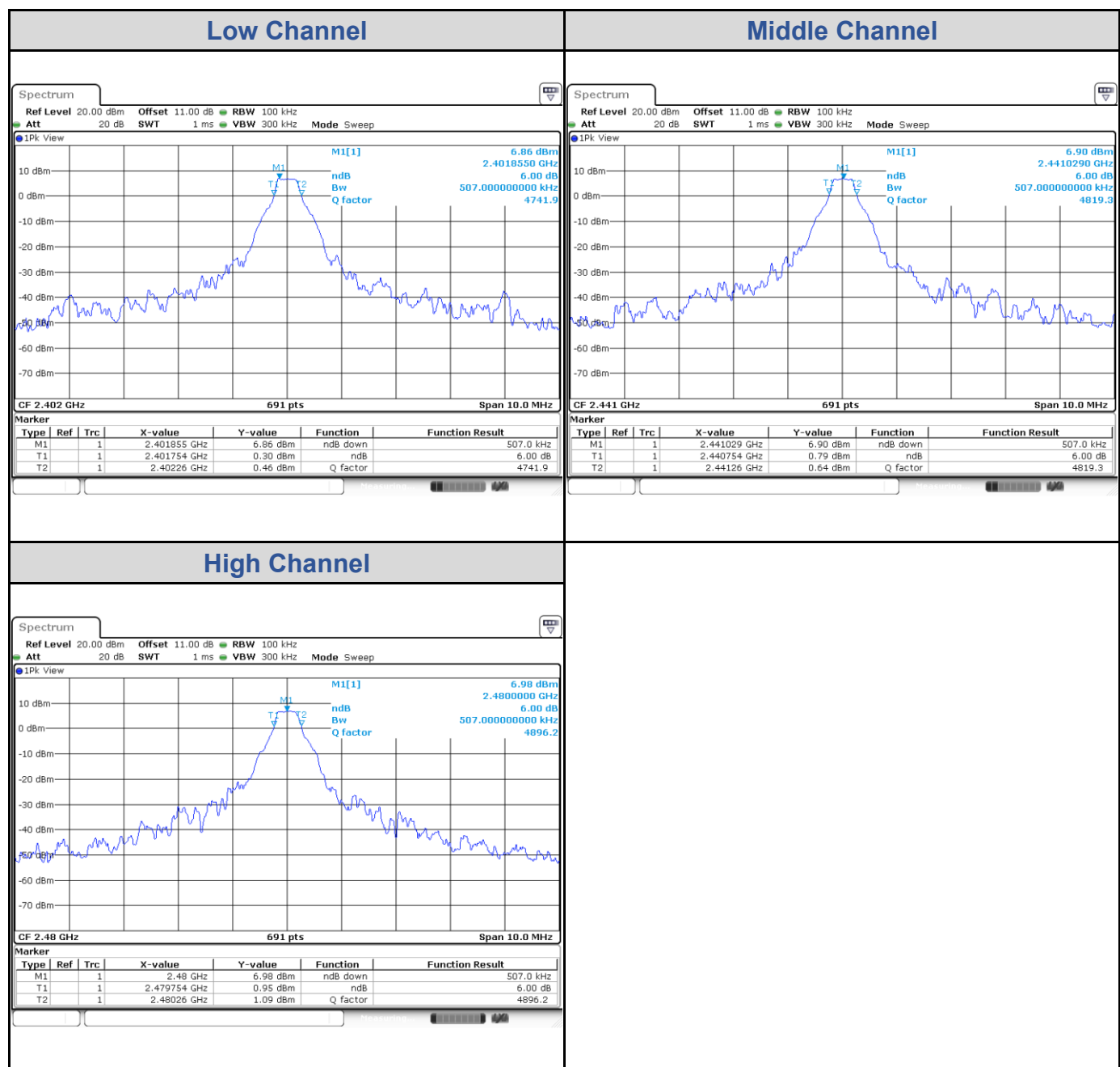
Please refer to Appendix B.

Appendix A: Test Results of Conducted Test

Test Result of 6 dB Bandwidth

ANT_1M

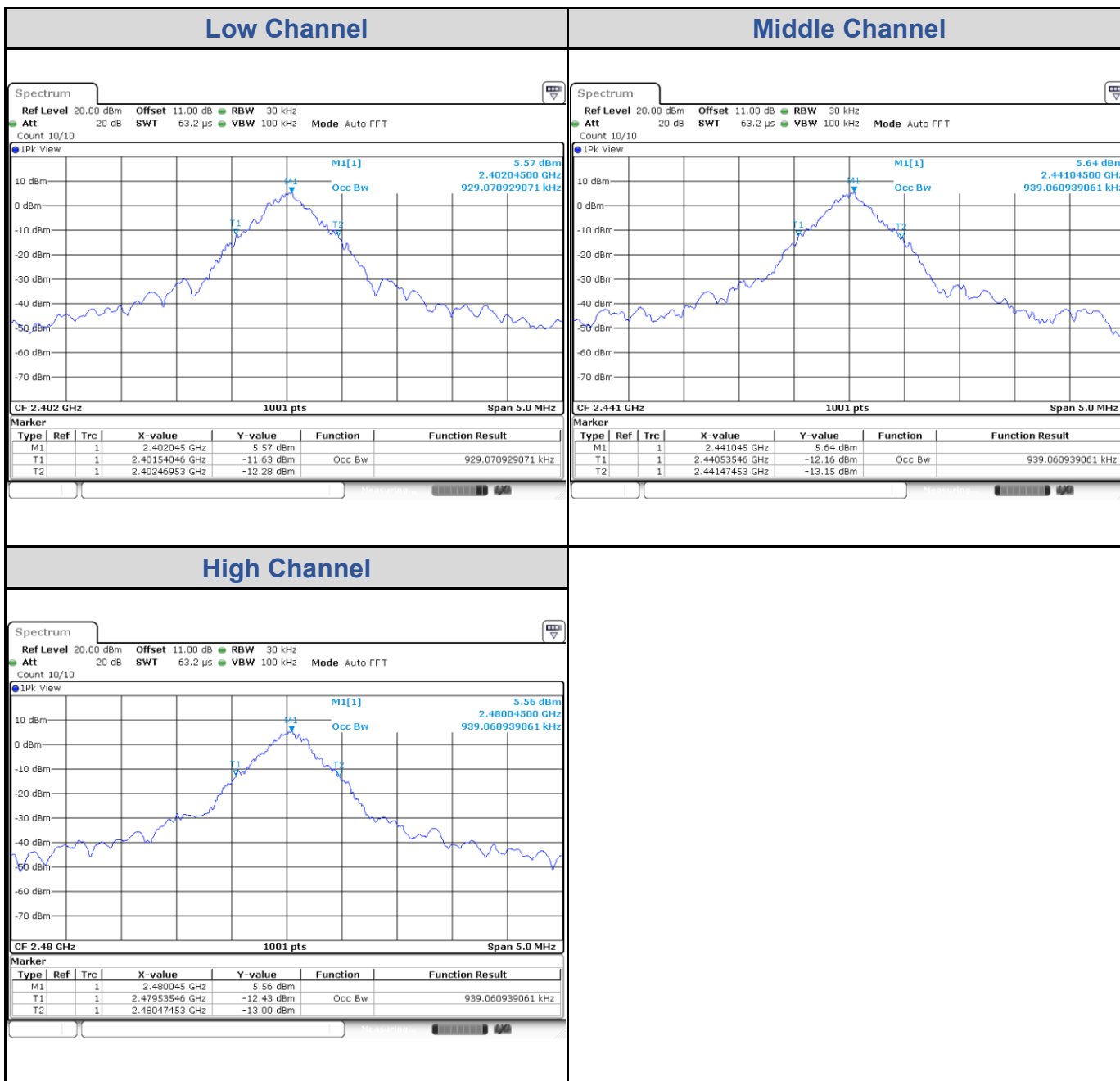
Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	2402	0.51	0.5	Pass
Middle Channel	2441	0.51	0.5	Pass
High Channel	2480	0.51	0.5	Pass



Test Result of 99% Occupied Bandwidth

ANT_1M

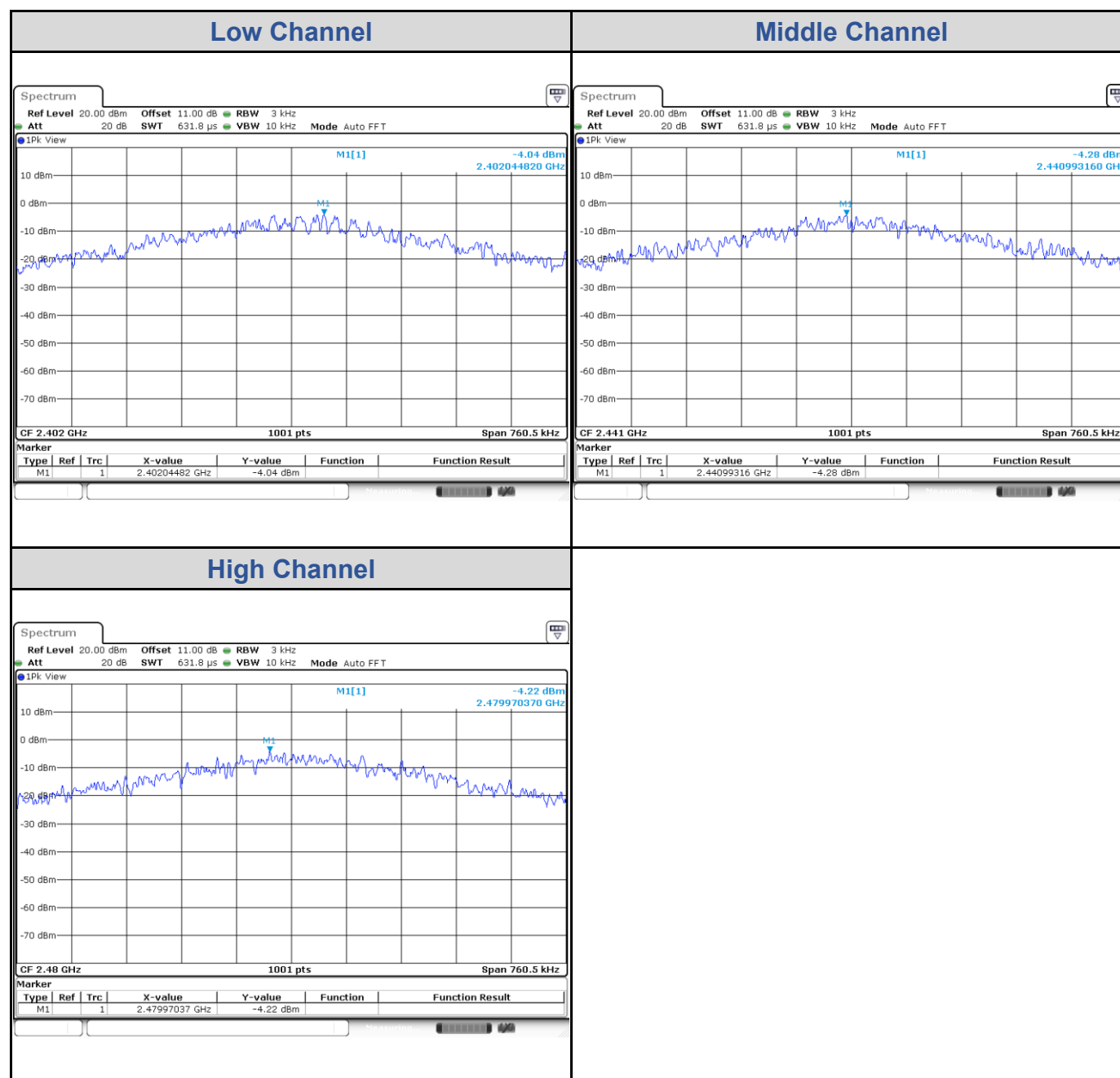
Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2402	0.93
Middle Channel	2441	0.94
High Channel	2480	0.94



Test Result of Power Spectral Density

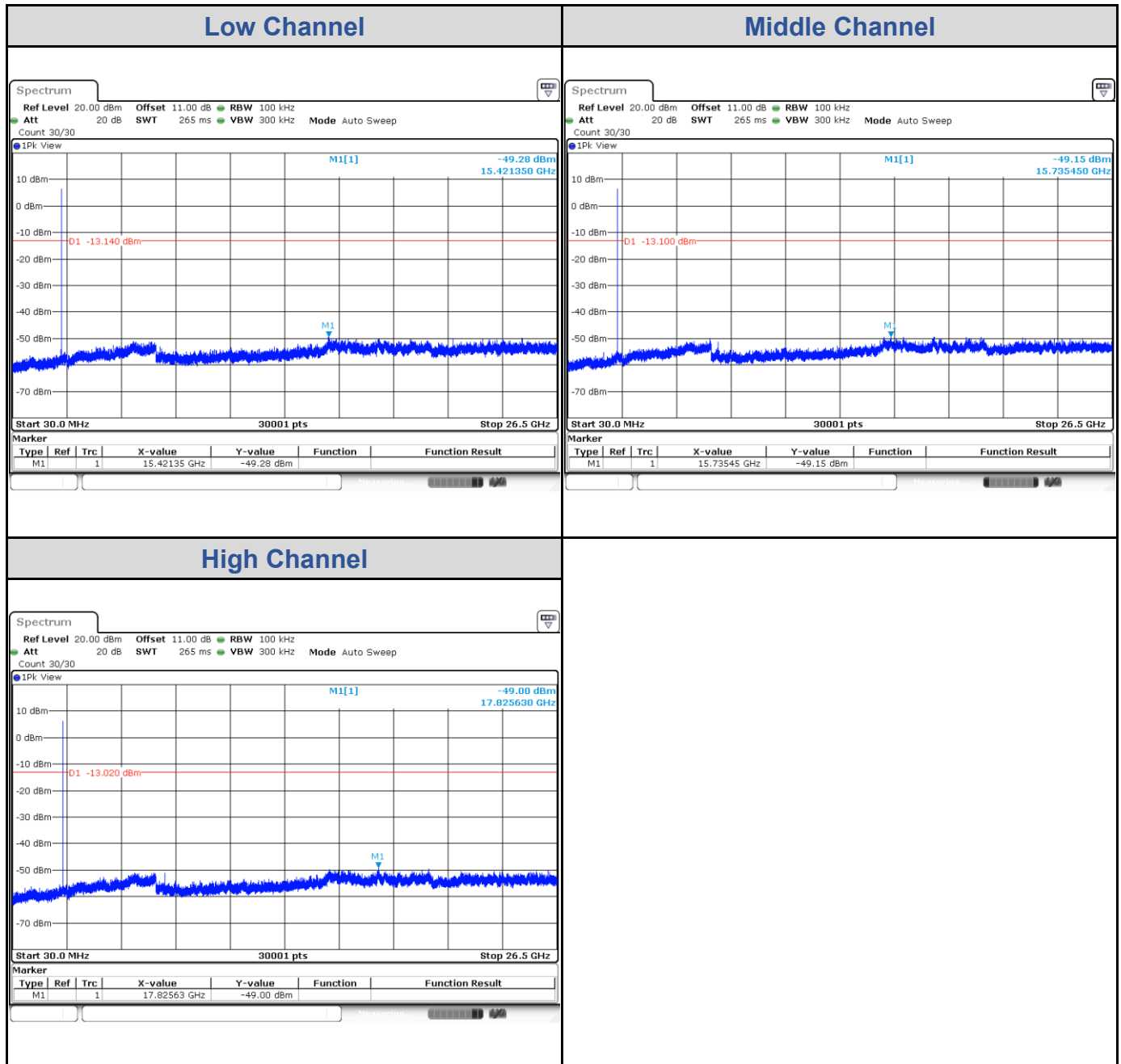
ANT_1M

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2402	-4.04	8	Pass
Middle Channel	2441	-4.28	8	Pass
High Channel	2480	-4.22	8	Pass



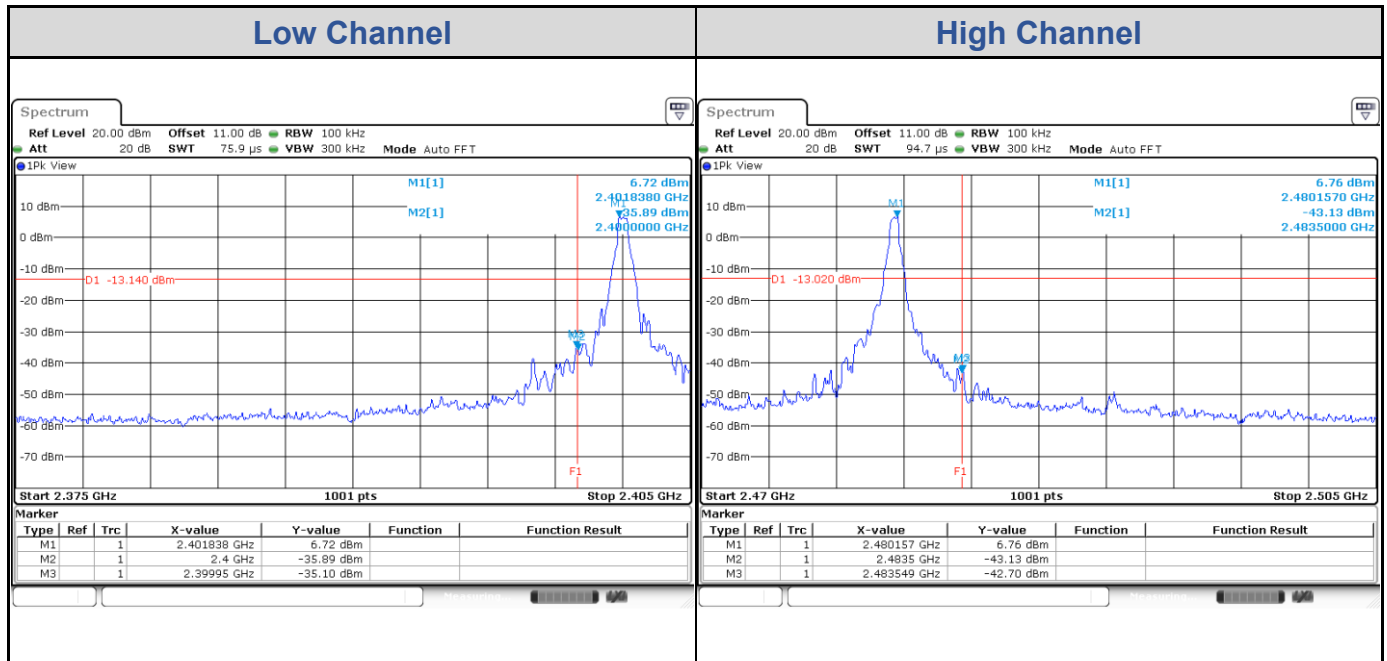
Test Result of Conducted Spurious Emissions

ANT_1M



Test Result of Conducted Band Edge

ANT_1M



Band Edges, 2.31GHz ~ 2.5GHz

ANT

Low Channel (Horizontal) Peak

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Level (dBuV/m) Date: 2026-01-08

	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2346.765	52.93	16.45	36.48	74.00	-21.07	154	174 Peak	Horizontal	
2 *	2402.000	98.00	61.65	36.35	74.00	24.00	154	174 Peak	Horizontal	
3	2496.532	53.41	16.31	37.10	74.00	-20.59	154	174 Peak	Horizontal	

Low Channel (Vertical) Peak

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Level (dBuV/m) Date: 2026-01-08

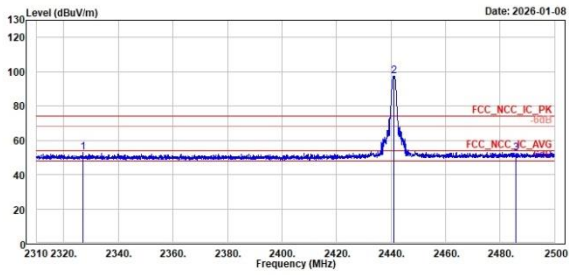
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2358.260	52.59	16.13	36.46	74.00	-21.41	377	217 Peak	Vertical	
2 *	2402.000	97.99	61.64	36.35	74.00	23.99	377	217 Peak	Vertical	
3	2486.748	52.95	15.92	37.03	74.00	-21.05	377	217 Peak	Vertical	

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Middle Channel (Horizontal) Peak



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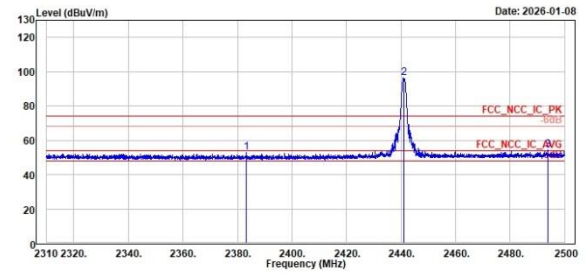


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2326.958	52.78	16.24	36.46	74.00	-21.30	168	169	Peak	Horizontal		
2 *	2441.000	97.53	69.83	36.70	74.00	23.53	168	169	Peak	Horizontal		
3	2485.655	52.63	15.61	37.02	74.00	-21.37	168	169	Peak	Horizontal		

Middle Channel (Vertical) Peak



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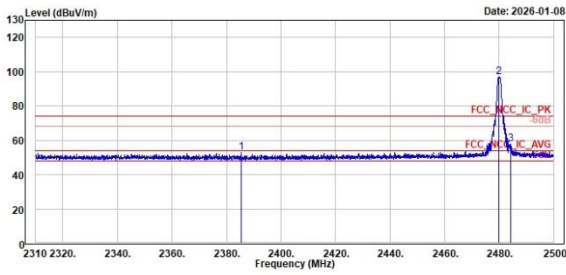
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2383.387	52.82	16.44	36.38	74.00	-21.18	374	215	Peak	Vertical		
2 *	2441.000	96.15	59.45	36.70	74.00	22.15	374	215	Peak	Vertical		
3	2493.825	54.43	17.35	37.08	74.00	-19.57	374	215	Peak	Vertical		

ANT

High Channel (Horizontal) Peak



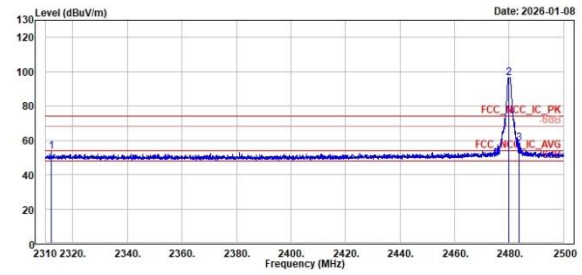
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2385.288	52.68	16.30	36.38	74.00	-21.32	143	172	Peak	Horizontal	
2	* 2480.000	96.72	59.73	36.99	74.00	22.72	143	172	Peak	Horizontal	
3	2484.230	57.87	20.85	37.02	74.00	-16.13	143	172	Peak	Horizontal	



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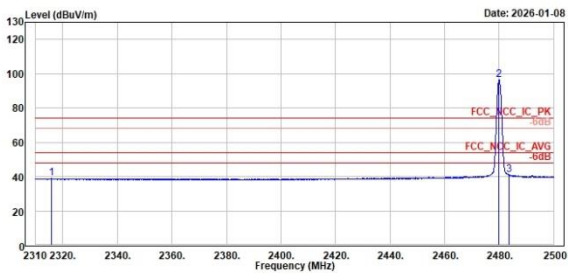
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2312.090	53.14	16.69	36.45	74.00	-20.86	354	214	Peak	Vertical	
2	* 2480.000	96.60	59.61	36.99	74.00	22.60	354	214	Peak	Vertical	
3	2483.660	58.42	21.41	37.01	74.00	-15.58	354	214	Peak	Vertical	

ANT

High Channel (Horizontal) Average



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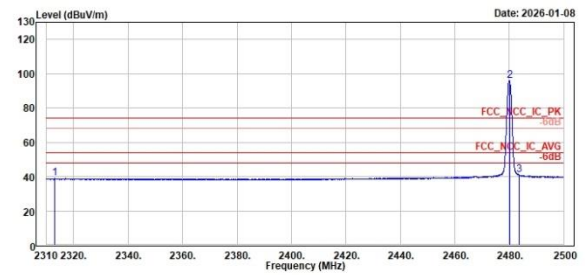


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2315.938	38.88	2.43	36.45	54.00	-15.12	143	172	Average	Horizontal		
2 *	2480.000	96.18	59.19	36.99	54.00	42.18	143	172	Average	Horizontal		
3	2483.518	41.18	4.17	37.01	54.00	-12.82	143	172	Average	Horizontal		

High Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2312.99	38.83	2.38	36.45	54.00	-15.17	354	214	Average	Vertical		
2 *	2480.05	96.07	59.08	36.99	54.00	42.07	354	214	Average	Vertical		
3	2483.50	41.06	4.05	37.01	54.00	-12.94	354	214	Average	Vertical		

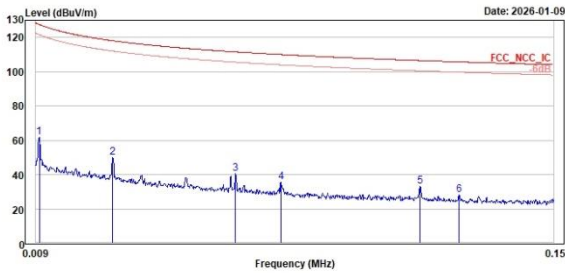
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

ANT

Low Channel (Open) 9kHz~150kHz



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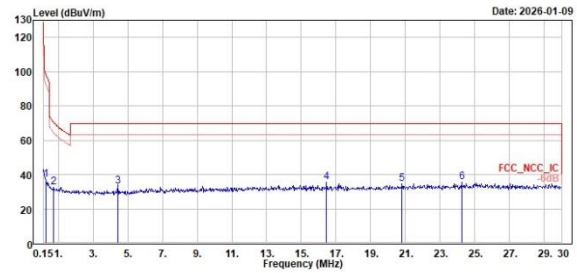


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.010	61.69	44.39	17.30	127.60	-65.91	100	62	Peak	Open	
2	0.030	49.97	30.76	19.21	118.05	-68.08	100	31	Peak	Open	
3	0.063	40.64	22.03	18.61	111.55	-70.91	100	107	Peak	Open	
4	0.076	35.39	17.28	18.11	110.00	-74.61	100	360	Peak	Open	
5	0.114	32.90	14.67	18.23	106.49	-73.59	100	174	Peak	Open	
6	0.124	28.14	9.84	18.30	105.71	-77.57	100	360	Peak	Open	

Low Channel (Open) 150kHz~30MHz



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.269	36.83	17.99	18.84	98.99	-62.16	100	284	Peak	Open	
2	0.747	32.83	13.83	19.00	70.14	-37.31	100	102	Peak	Open	
3	4.448	33.08	13.59	19.49	69.50	-36.42	100	235	Peak	Open	
4	16.448	35.52	13.53	21.99	69.50	-33.98	100	159	Peak	Open	
5	20.806	34.57	12.18	22.39	69.50	-34.93	100	123	Peak	Open	
6	24.239	35.68	12.00	22.00	69.50	-33.90	100	300	Peak	Open	

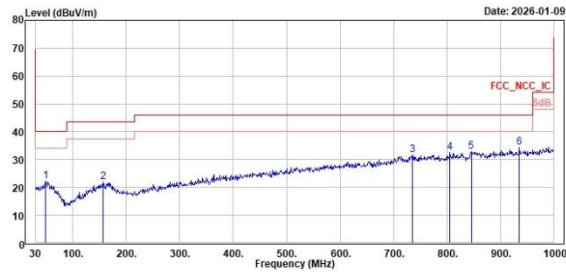
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

ANT

Low Channel (Horizontal)



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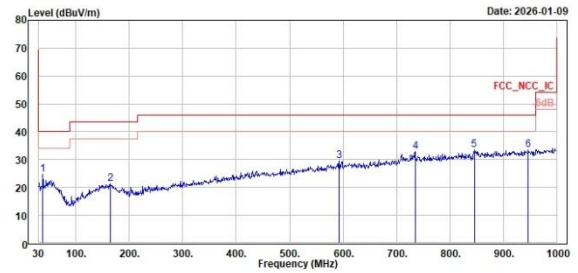


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	49.400	22.18	28.20	-6.02	40.00	-17.82	200	58 Peak	Horizontal	
2	157.070	21.85	28.04	-6.19	43.50	-21.65	100	54 Peak	Horizontal	
3	736.160	31.74	29.19	2.55	46.00	-14.26	115	360 Peak	Horizontal	
4	806.000	32.46	28.89	3.57	46.00	-13.54	100	212 Peak	Horizontal	
5	845.770	32.71	28.87	3.84	46.00	-13.29	200	351 Peak	Horizontal	
6	935.980	34.41	29.15	5.26	46.00	-11.59	100	180 Peak	Horizontal	

Low Channel (Vertical)



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	37.760	24.78	31.99	-7.21	40.00	-15.22	100	331 Peak	Vertical	
2	164.830	21.17	27.36	-6.19	43.50	-22.33	100	127 Peak	Vertical	
3	592.600	29.48	29.32	0.16	46.00	-16.52	100	322 Peak	Vertical	
4	735.190	32.88	30.34	2.54	46.00	-13.12	100	210 Peak	Vertical	
5	845.770	33.57	29.73	3.84	46.00	-12.43	200	68 Peak	Vertical	
6	946.650	33.54	28.68	5.46	46.00	-12.46	200	119 Peak	Vertical	

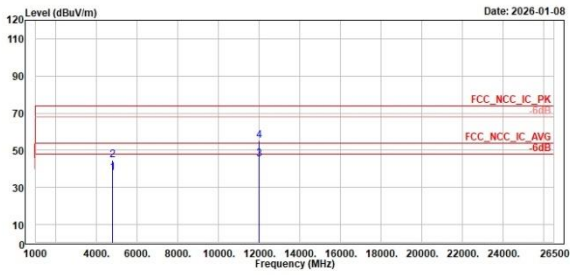
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

ANT

Low Channel (Horizontal)



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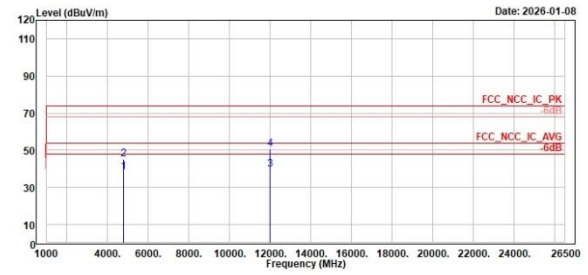


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.000	37.75	48.86	-11.11	54.00	-16.25	301	348	Average	Horizontal
2	4804.000	44.72	55.83	-11.11	74.00	-29.28	301	348	Peak	Horizontal
3	12010.000	45.28	47.80	-2.52	54.00	-8.72	107	61	Average	Horizontal
4	12010.000	55.16	57.68	-2.52	74.00	-18.84	107	61	Peak	Horizontal

Low Channel (Vertical)



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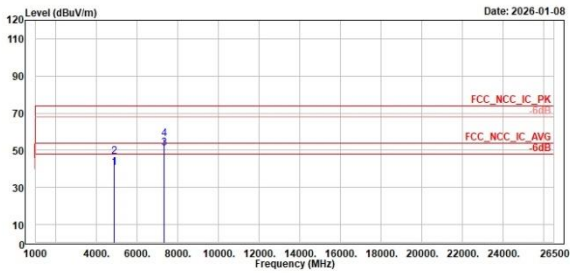
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4804.000	38.50	49.61	-11.11	54.00	-15.50	148	360	Average	Vertical
2	4804.000	45.01	56.12	-11.11	74.00	-28.99	148	360	Peak	Vertical
3	12010.000	39.57	42.09	-2.52	54.00	-14.43	300	205	Average	Vertical
4	12010.000	50.79	53.31	-2.52	74.00	-23.21	300	205	Peak	Vertical

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Middle Channel (Horizontal)



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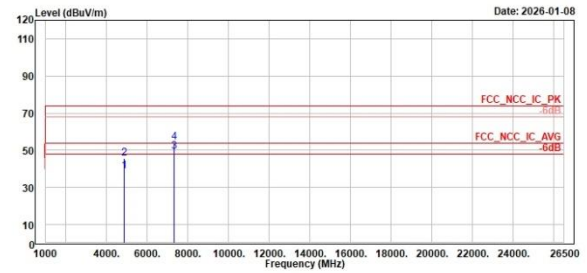


	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4882.000	48.74	51.84	-11.10	54.00	-13.26	294	1	Average	Horizontal	
2	4882.000	46.38	57.48	-11.10	74.00	-27.62	294	1	Peak	Horizontal	
3	7323.000	51.31	60.33	-9.02	54.00	-2.69	100	294	Average	Horizontal	
4	7323.000	55.97	64.99	-9.02	74.00	-18.03	100	294	Peak	Horizontal	

Middle Channel (Vertical)



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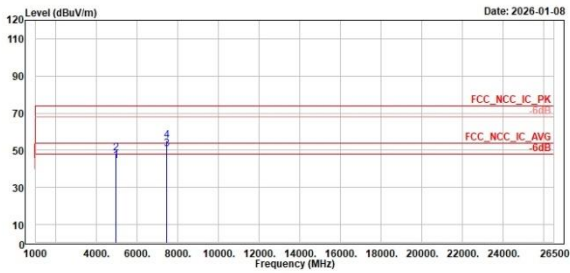
	Freq	Level	Read	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	4882.000	38.64	49.74	-11.10	54.00	-15.36	300	3	Average	Vertical	
2	4882.000	45.55	56.65	-11.10	74.00	-28.45	300	3	Peak	Vertical	
3	7323.000	49.34	58.36	-9.02	54.00	-4.66	314	193	Average	Vertical	
4	7323.000	54.10	63.12	-9.02	74.00	-19.90	314	193	Peak	Vertical	

ANT

High Channel (Horizontal)



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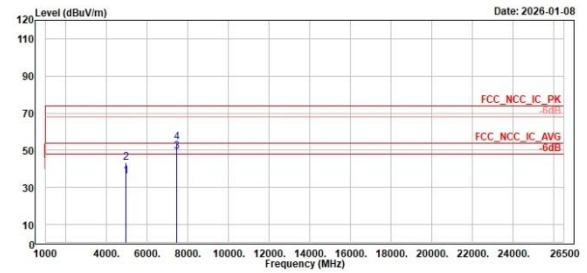


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit					
	MHz	dBuV/m	dB/m	dBuV/m	dB	cm	deg			
1	4960.000	44.06	54.85	-10.79	54.00	-9.94	266	171 Average	Horizontal	
2	4960.000	48.26	59.05	-10.79	74.00	-25.74	266	171 Peak	Horizontal	
3	7440.000	50.77	59.81	-9.04	54.00	-3.23	100	198 Average	Horizontal	
4	7440.000	55.43	64.47	-9.04	74.00	-18.57	100	198 Peak	Horizontal	

High Channel (Vertical)



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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Level Factor	Line	Limit					
	MHz	dBuV/m	dB/m	dBuV/m	dB	cm	deg			
1	4960.000	35.93	46.72	-10.79	54.00	-18.07	180	111 Average	Vertical	
2	4960.000	43.32	54.11	-10.79	74.00	-30.68	180	111 Peak	Vertical	
3	7440.000	49.30	58.34	-9.04	54.00	-4.70	329	190 Average	Vertical	
4	7440.000	54.39	63.43	-9.04	74.00	-19.61	329	190 Peak	Vertical	

Mains Conducted Emission, TX 150kHz ~ 30MHz

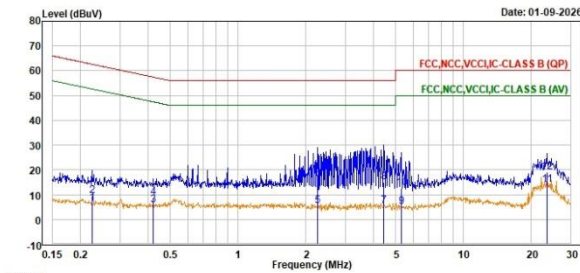
Worst Band

(Line)

(Neutral)



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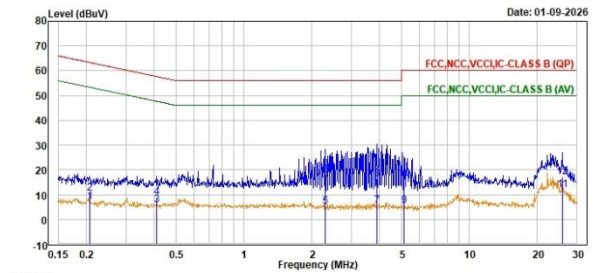


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.225	6.52	-3.12	9.64	52.65	-46.13 Average	line1
2	0.225	9.63	-0.01	9.64	62.65	-53.02 QP	line1
3	0.421	5.79	-3.05	9.64	47.43	-41.64 Average	line1
4	0.421	8.94	-0.70	9.64	57.43	-48.49 QP	line1
5	2.258	5.25	-4.43	9.68	46.00	-40.75 Average	line1
6	2.258	17.92	8.24	9.68	56.00	-38.08 QP	line1
7	4.447	5.32	-4.39	9.71	46.00	-40.68 Average	line1
8	4.447	15.02	5.31	9.71	56.00	-40.98 QP	line1
9	5.321	4.99	-4.73	9.72	50.00	-45.01 Average	line1
10	5.321	12.73	3.01	9.72	60.00	-47.27 QP	line1
11	23.499	13.83	4.05	9.78	50.00	-36.17 Average	line1
12	23.499	19.12	9.34	9.78	60.00	-40.88 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.206	7.17	-2.46	9.63	53.35	-46.18 Average	neutral
2	0.206	10.39	0.76	9.63	63.35	-52.96 QP	neutral
3	0.411	5.74	-3.90	9.64	47.64	-41.90 Average	neutral
4	0.411	8.78	-0.86	9.64	57.64	-48.86 QP	neutral
5	2.292	5.22	-4.46	9.68	46.00	-40.78 Average	neutral
6	2.292	17.76	8.08	9.68	56.00	-38.24 QP	neutral
7	3.906	5.27	-4.43	9.70	46.00	-40.73 Average	neutral
8	3.906	16.39	6.69	9.70	56.00	-39.61 QP	neutral
9	5.138	5.27	-4.45	9.72	50.00	-44.73 Average	neutral
10	5.138	16.27	6.55	9.72	60.00	-43.73 QP	neutral
11	25.833	11.93	2.05	9.88	50.00	-38.07 Average	neutral
12	25.833	17.11	7.23	9.88	60.00	-42.89 QP	neutral