



FCC PART 15C TEST REPORT

No.25T04Z100410-017

for

TCL Communication Ltd.

Projector

P30D8F

FCC ID: 2ACCJB234

with

Hardware Version: TP3_M_F

Software Version: V11

Issued Date: 2025-07-18

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100410-017	Rev.0	1st edition	2025-07-14
25T04Z100410-017	Rev.1	Update the test results and plots of Time of Occupancy (Dwell Time)	2025-07-18

Note: the latest revision of the test report supersedes all previous version.

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1. Test Laboratory

1.1. Introduction &Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website

1.2. Testing Location

Conducted testing Location:CTTL(Gaolizhang Road)

Address: Cuihu Cloud Center, No.1, Gaolizhang Road, Wenquan,
Haidian District, Beijing, China

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China100191

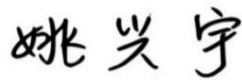
1.3. Testing Environment

Normal Temperature: 20-27℃
Relative Humidity: 20-50%

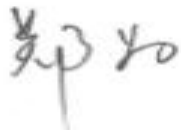
1.4. Project data

Testing Start Date: 2025-04-24
Testing End Date: 2025-07-14

1.5. Signature



Yao Xingyu
(Prepared this test report)



Zheng Wei
(Reviewed this test report)



Pang Shuai
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: /

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address/Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact Person: Ting Wang
Contact Email: ting.wang.hz@tcl.com
Telephone: +86 752 2639091
Fax: /

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Projector
Model Name	P30D8F
FCC ID	2ACCJB234
Frequency Band	ISM 2400MHz~2483.5MHz
Type of Modulation	GFSK/ $\pi/4$ DQPSK/8DPSK
Number of Channels	79
Power Supply	20V DC by Battery
Antenna gain	1.0dBi

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
UT01a	P30D8F3J1EH0001	TP3_M_F	V11	2025-04-01
UT10a	P30D8F3J1EH000A	TP3_M_F	V11	2025-05-09

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description	Model	Manufacturer	Remark
AE1	Battery	TLp043G7	Veken	--
AE2	Adapter	PD100E-B1C0AVU C	Mass Power Electronics Inc.	--
AE3	Cable	UL2725-18	Huizhou Besiter Power Technology Co., Ltd	--

*AE ID: is used to identify the test sample in the lab internally.

3.4. Normal Accessory setting

Fully charged battery is used during the test.

3.5. General Description

The Equipment Under Test (EUT) is a model of Projector with integrated antenna. It consists of normal options: lithium battery and USB cable. Manual and specifications of the EUT were provided to fulfill the test. Samples undergoing test were selected by the Client.

4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex A for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C:	2024
	15.205 Restricted bands of operation;	
	15.209 Radiated emission limits, general requirements;	
ANSI C63.10	15.247 Operation within the bands 902–928MHz, 2400–2483.5 MHz, and 5725–5850 MHz.	June,2013
	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices	

5. Test Results

5.1. Summary of Test Results

Abbreviations used in this clause:

P Pass, The EUT complies with the essential requirements in the standard.

F Fail, The EUT does not comply with the essential requirements in the standard

NA Not Applicable, The test was not applicable

NP Not Performed, The test was not performed by CTTL

SUMMARY OF MEASUREMENT RESULTS	Sub-clause	Verdict
Peak Output Power	15.247 (b)(1)	P
Frequency Band Edges- Conducted	15.247 (d)	P
Transmitter Spurious Emission - Conducted	15.247 (d)	P
Radiated Unwanted Emission	15.247, 15.205, 15.209	P
Time of Occupancy (Dwell Time)	15.247 (a) (1)(iii)	P
20dB Bandwidth	15.247 (a)(1)	NA
Carrier Frequency Separation	15.247 (a)(1)	P
Number of hopping channels	15.247 (a)(iii)	P
AC Powerline Conducted Emission	15.107, 15.207	P
Antenna Requirement	15.203	P

Please refer to **ANNEX A** for detail.

The measurement is made according to ANSI C63.10.

5.2. Statements

CTTL has evaluated the test cases requested by the applicant /manufacturer as listed in section 5.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.2

6. Test Facilities Utilized

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSW67	104051	Rohde & Schwarz	1 year	2026-06-09
2	Base Station Simulator	CMW500	159384	Rohde & Schwarz	1 year	2025-11-10
3	Test Receiver	ESCI	100344	R&S	1 year	2026-04-01
4	LISN	ENV216	101200	R&S	1 year	2026-06-05
5	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103023	Rohde & Schwarz	1 year	2026-05-07
2	EMI Antenna	VULB9163	01222	Schwarzbeck	1 year	2025-09-11
3	EMI Antenna	3115	6914	ETS-Lindgren	1 year	2026-03-31
4	EMI Antenna	3116	2663	ETS-Lindgren	1 year	2026-03-03
5	Bluetooth Tester	CBT	101042	Rohde & Schwarz	1 year	2026-01-19

7. Measurement Uncertainty

7.1. Peak Output Power - Conducted

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.66dB
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7.2. Frequency Band Edges - Conducted

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.66dB
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7.3. Transmitter Spurious Emission - Conducted

Measurement Uncertainty:

Frequency Range	Uncertainty (k=2)
30 MHz ~ 8 GHz	1.22dB
8 GHz ~ 12.75 GHz	1.51dB
12.7GHz ~ 26 GHz	1.51dB

7.4. Transmitter Spurious Emission - Radiated

Measurement Uncertainty:

Frequency Range	Uncertainty(dBm) (k=2)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	4.72
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.84
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.12

7.5. Time of Occupancy (Dwell Time)

Measurement Uncertainty:

Measurement Uncertainty (k=2)	0.88ms
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7.6. 20dB Bandwidth

Measurement Uncertainty:

Measurement Uncertainty (k=2)	61.936Hz
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7.7. Carrier Frequency Separation

Measurement Uncertainty:

Measurement Uncertainty (k=2)	61.936Hz
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7.8. AC Powerline Conducted Emission

Measurement Uncertainty:

Measurement Uncertainty (k=2)	3.08dB
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ANNEX A: EUT parameters

Disclaimer: The antenna gain provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

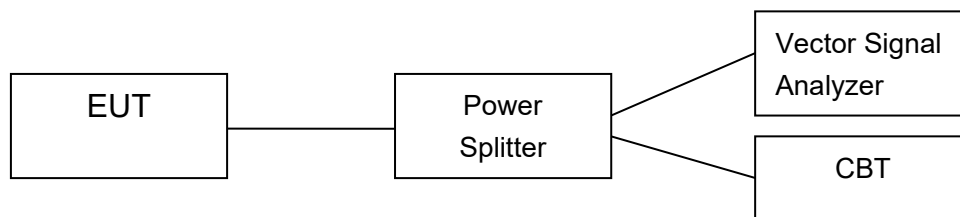
ANNEX B: Detailed Test Results

B.1. Measurement Method

B.1.1. Conducted Measurements

The measurement is made according to ANSI C63.10.

- 1). Connect the EUT to the test system correctly.
- 2). Set the EUT to the required work mode (Transmitter, receiver or transmitter & receiver).
- 3). Set the EUT to the required channel.
- 4). Set the EUT hopping mode (hopping or hopping off).
- 5). Set the spectrum analyzer to start measurement.
- 6). Record the values. Vector Signal Analyzer



B.1.2. Radiated Emission Measurements

The measurement is made according to ANSI C63.10

The radiated emission test is performed in semi-anechoic chamber. The EUT was placed on a non-conductive table with 80cm above the ground plane for measurement below 1GHz and 1.5m above the ground plane for measurement above 1GHz. The measurement antenna was placed at a distance of 3 meters from the EUT. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated from 0° to 360° and the measurement antenna is moved from 1m to 4m to get the maximization result. The maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

B.2. Peak Output Power

B.2.1. Peak Output Power – Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.5

a) Use the following spectrum analyzer settings:

- Span: 6MHz
- RBW: 3MHz
- VBW: 3MHz
- Sweep time: 2.5ms
- Detector function: peak
- Trace: max hold

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power.

Measurement Limit:

Standard	Limits	
FCC Part 15.247 (b)(1)	Bandwidth $\leq$ 1MHz	30dBm (1W)
	Bandwidth $>$ 1MHz	21dBm (125mW)

Measurement Results:

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	7.16	7.05	7.12	P

For $\pi/4$ DQPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	9.40	9.31	9.50	P

For 8DPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	9.76	9.64	9.75	P

Conclusion: PASS

B.2.2. E.I.R.P.

The radiated E.I.R.P. is listed below:

Antenna gain = 1.0dBi

For GFSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	8.16	8.05	8.12	P

For $\pi/4$ DQPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	10.40	10.31	10.50	P

For 8DPSK

Channel	Ch 0 2402 MHz	Ch 39 2441 MHz	Ch 78 2480 MHz	Conclusion
Peak Conducted Output Power (dBm)	10.76	10.64	10.75	P

Note: E.I.R.P. are calculated with the antenna gain.

Conclusion: PASS

B.3. Frequency Band Edges – Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.6

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).

- Span: 10 MHz
- Resolution Bandwidth: 100 kHz
- Video Bandwidth: 300 kHz
- Sweep Time:Auto
- Detector: Peak
- Trace: max hold

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.

Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not an absolute field strength measurement; it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.

Measurement Limit:

Standard	Limit (dBc)
FCC 47 CFR Part 15.247 (d)	< -20

Measurement Result:

TestMode	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Low	2402	6.23	-45.77	≤-13.77	PASS
	High	2480	5.83	-46.24	≤-14.17	PASS
	Low	Hop_2402	6.08	-46.53	≤-13.92	PASS
	High	Hop_2480	5.69	-45.79	≤-14.31	PASS
2DH5	Low	2402	6.36	-45.96	≤-13.64	PASS
	High	2480	5.94	-46.99	≤-14.06	PASS
	Low	Hop_2402	5.56	-46.99	≤-14.44	PASS
	High	Hop_2480	5.10	-45.93	≤-14.9	PASS
3DH5	Low	2402	6.52	-46.63	≤-13.48	PASS
	High	2480	6.08	-46.45	≤-13.92	PASS
	Low	Hop_2402	6.38	-46.33	≤-13.62	PASS
	High	Hop_2480	4.38	-45.54	≤-15.62	PASS

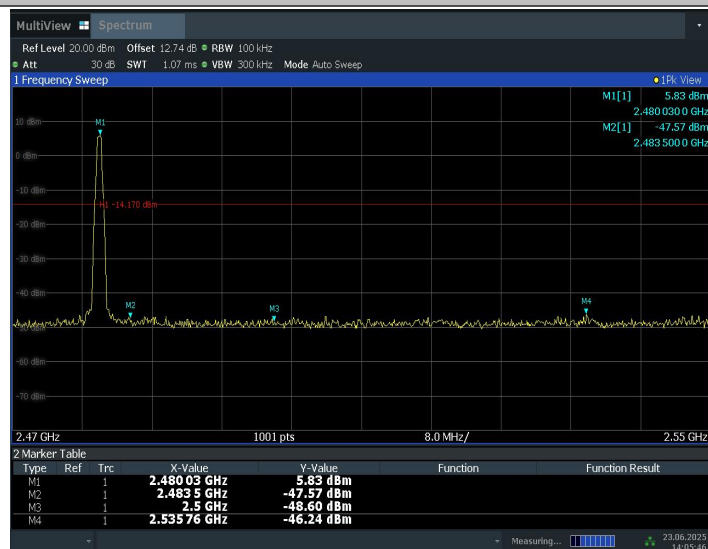
Test graphs as below

DH5_Low_2402



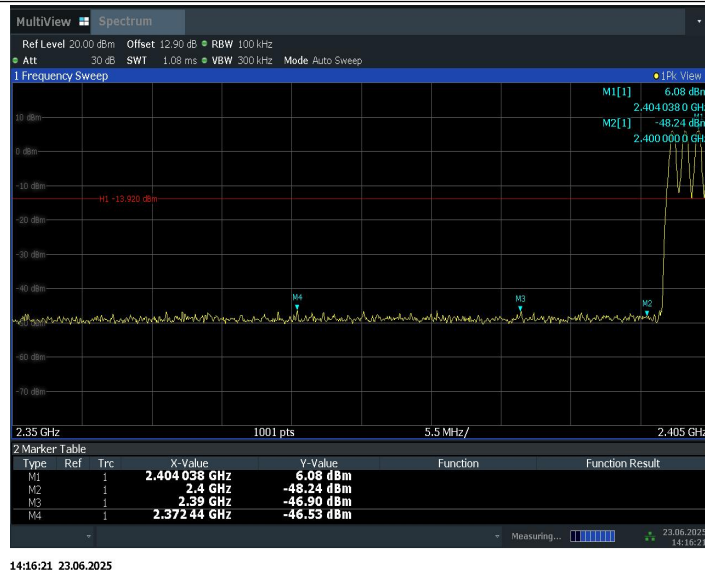
14:02:41 23.06.2025

DH5_High_2480



14:05:46 23.06.2025

DH5_Low_Hop_2402



DH5_High_Hop_2480



2DH5_Low_2402



2DH5_High_2480



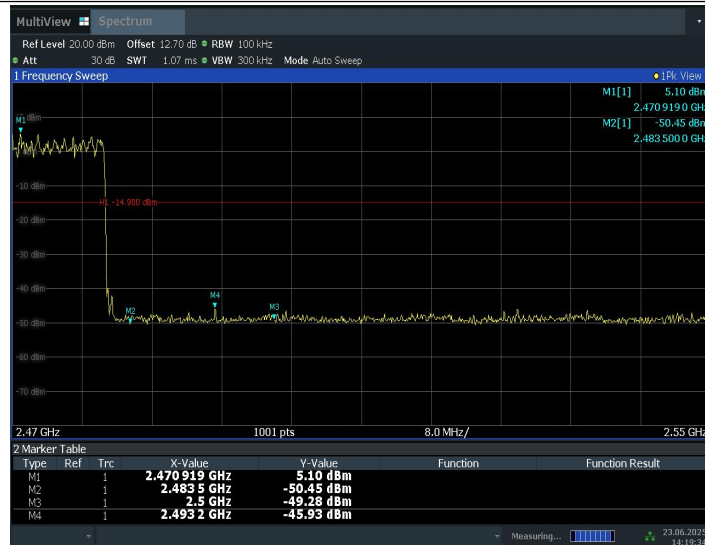
14:10:31 23.06.2025

2DH5_Low_Hop_2402



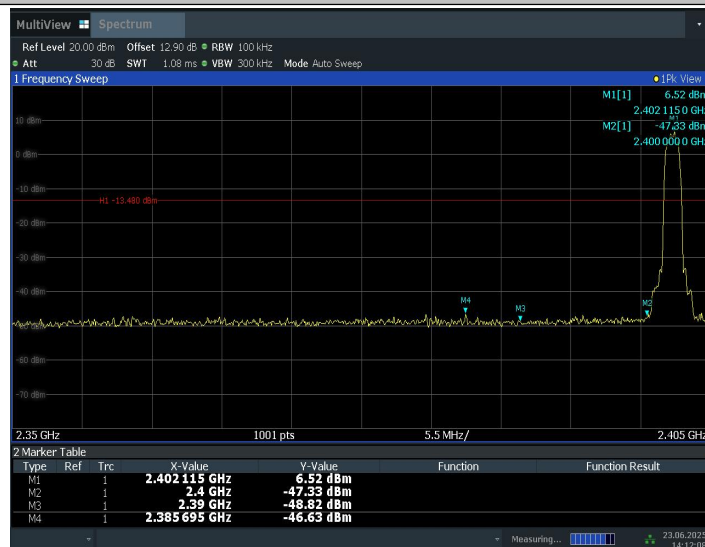
14:18:02 23.06.2025

2DH5_High_Hop_2480



14:19:34 23.06.2025

3DH5_Low_2402



14:12:08 23.06.2025

3DH5_High_2480



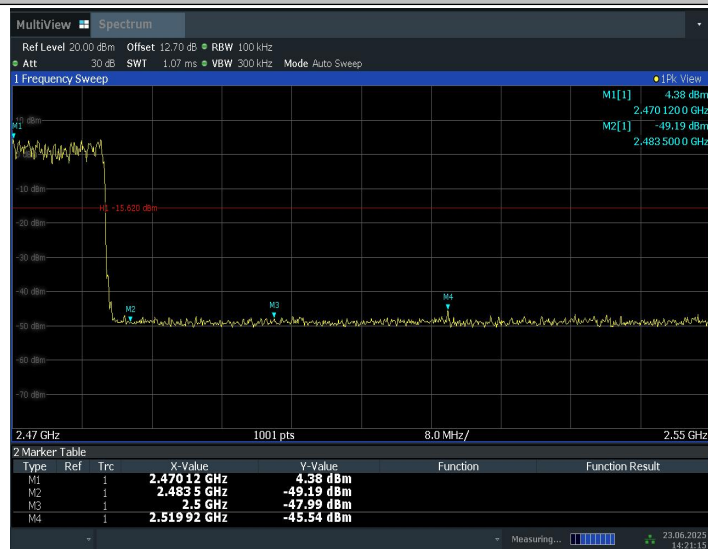
14:15:13 23.06.2025

3DH5_Low_Hop_2402



14:19:45 23.06.2025

3DH5_High_Hop_2480



14:21:15 23.06.2025

Conclusion: PASS

B.4. Transmitter Spurious Emission - Conducted

Method of Measurement: See ANSI C63.10-clause 7.8.8

Measurement Procedure – Reference Level

1. Set the RBW = 100 kHz.
2. Set the VBW = 300 kHz.
3. Set the span to 5-30 % greater than the EBW.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW. Next, determine the power in 100 kHz band segments outside of the authorized frequency band using the following measurement:

Measurement Procedure - Unwanted Emissions

1. Set RBW = 100 kHz.
2. Set VBW = 300 kHz.
3. Set span to encompass the spectrum to be examined.
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize (this may take some time, depending on the extent of the span).

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified above.

Measurement Limit:

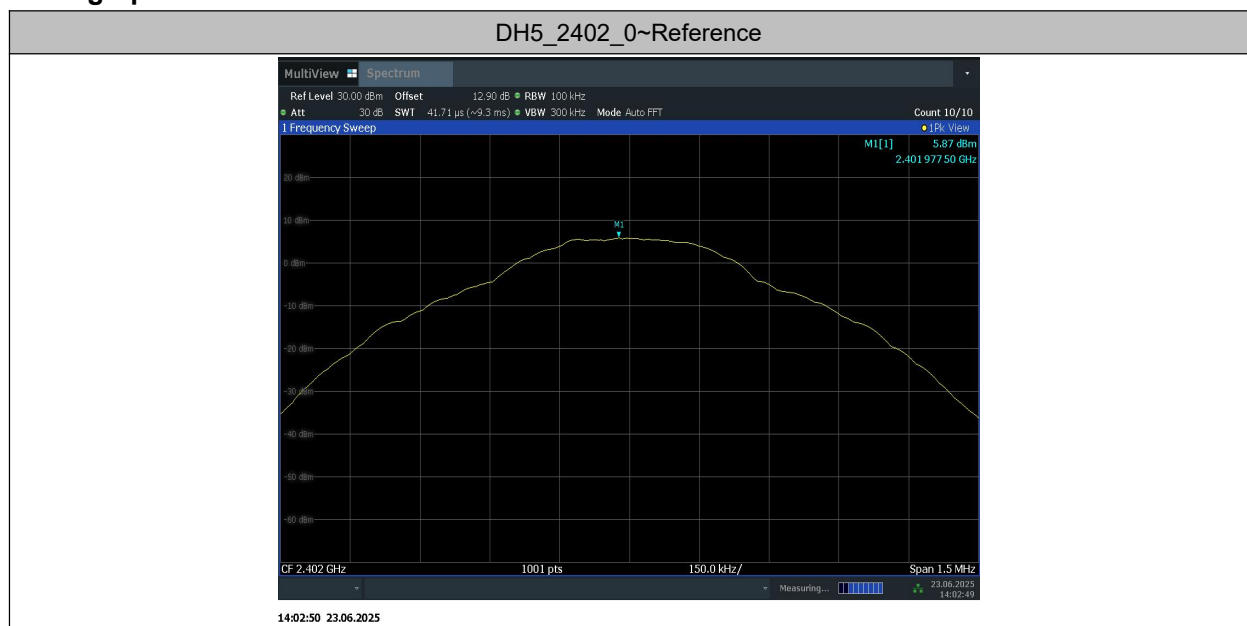
Standard	Limit
FCC 47 CFR Part 15.247 (d)	20dB below peak output power in 100 kHz bandwidth

Measurement Results:

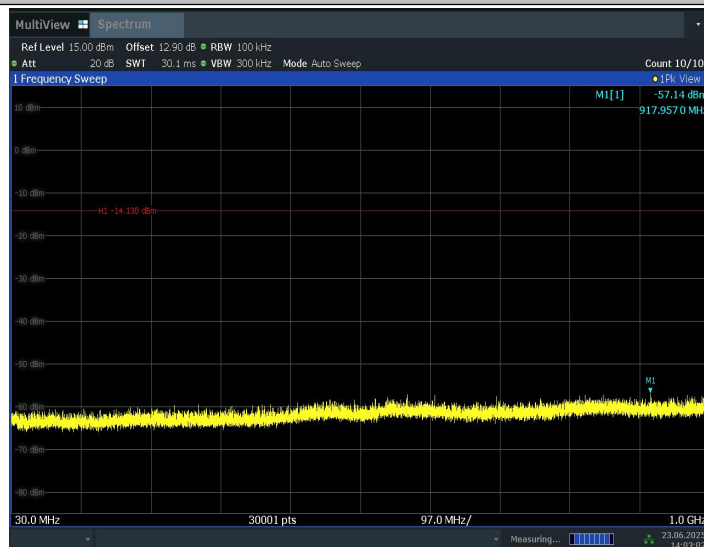
TestMode	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	2402	Reference	5.87	5.87	---	PASS

		30~1000	5.87	-57.14	≤ -14.13	PASS
		1000~26500	5.87	-44.13	≤ -14.13	PASS
	2441	Reference	5.68	5.68	---	PASS
		30~1000	5.68	-57.51	≤ -14.32	PASS
		1000~26500	5.68	-44.04	≤ -14.32	PASS
	2480	Reference	5.39	5.39	---	PASS
		30~1000	5.39	-56.67	≤ -14.61	PASS
		1000~26500	5.39	-44.61	≤ -14.61	PASS
2DH5	2402	Reference	4.82	4.82	---	PASS
		30~1000	4.82	-56.45	≤ -15.18	PASS
		1000~26500	4.82	-44.21	≤ -15.18	PASS
	2441	Reference	4.45	4.45	---	PASS
		30~1000	4.45	-56.8	≤ -15.55	PASS
		1000~26500	4.45	-44.49	≤ -15.55	PASS
	2480	Reference	4.18	4.18	---	PASS
		30~1000	4.18	-57.4	≤ -15.82	PASS
		1000~26500	4.18	-43.74	≤ -15.82	PASS
3DH5	2402	Reference	4.80	4.80	---	PASS
		30~1000	4.80	-55.46	≤ -15.2	PASS
		1000~26500	4.80	-43.75	≤ -15.2	PASS
	2441	Reference	4.48	4.48	---	PASS
		30~1000	4.48	-57.09	≤ -15.52	PASS
		1000~26500	4.48	-44.04	≤ -15.52	PASS
	2480	Reference	4.41	4.41	---	PASS
		30~1000	4.41	-56.63	≤ -15.59	PASS
		1000~26500	4.41	-43.86	≤ -15.59	PASS

Test graphs as below

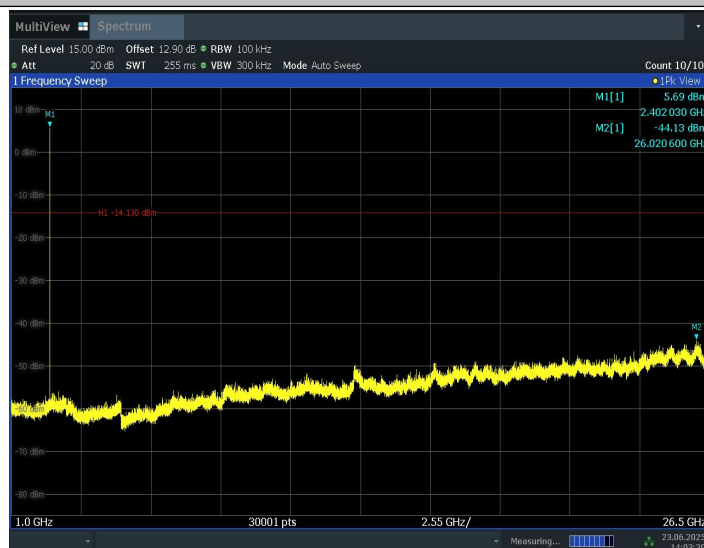


DH5_2402_30~1000



14:03:03 23.06.2025

DH5_2402_1000~26500



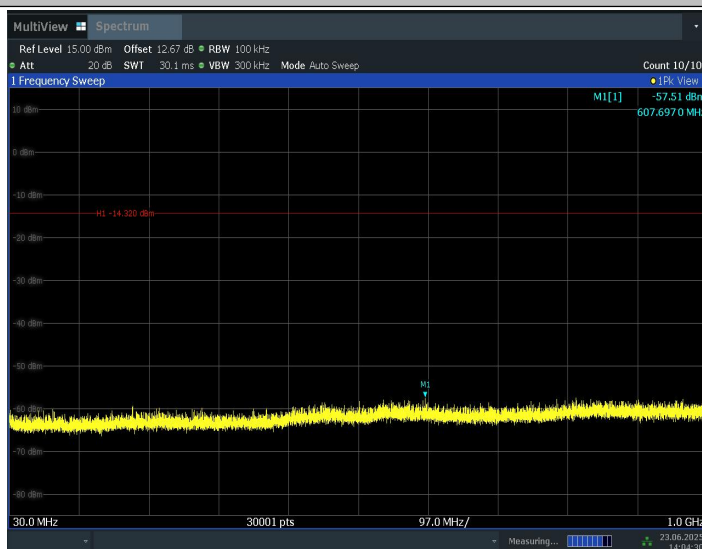
14:03:40 23.06.2025

DH5_2441_0~Reference



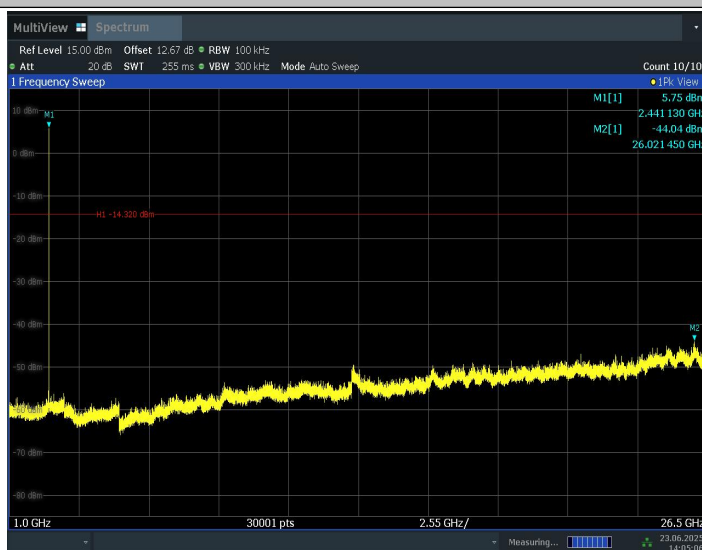
14:04:17 23.06.2025

DH5_2441_30~1000



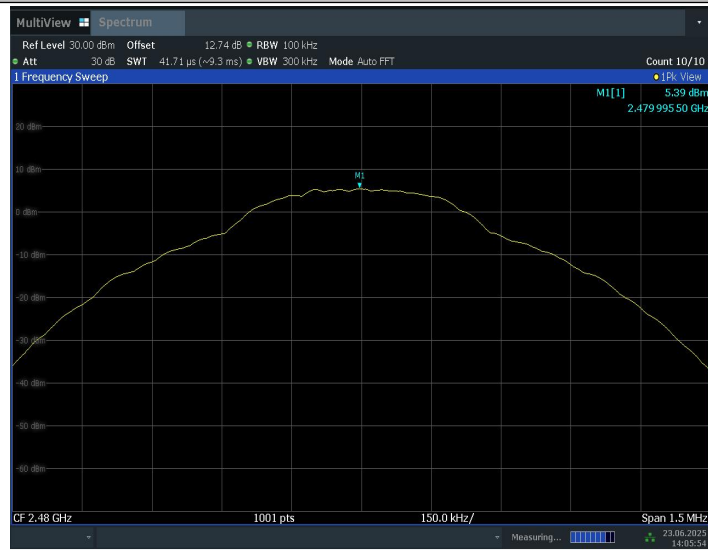
14:04:31 23.06.2025

DH5_2441_1000~26500



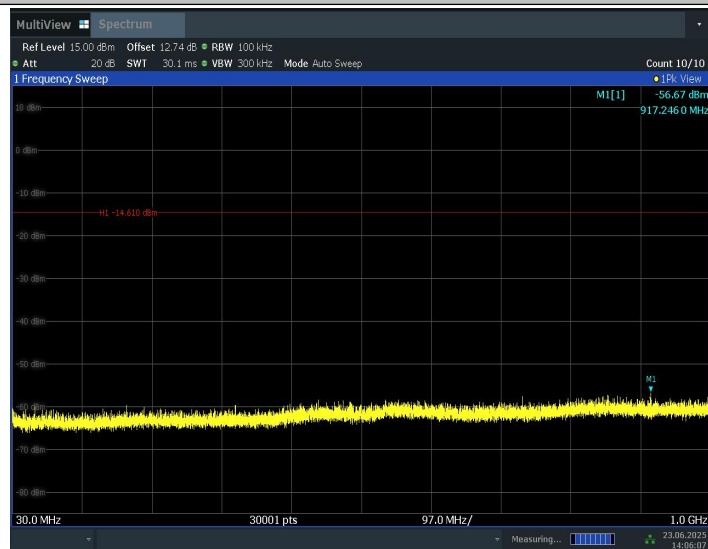
14:05:07 23.06.2025

DH5_2480_0~Reference



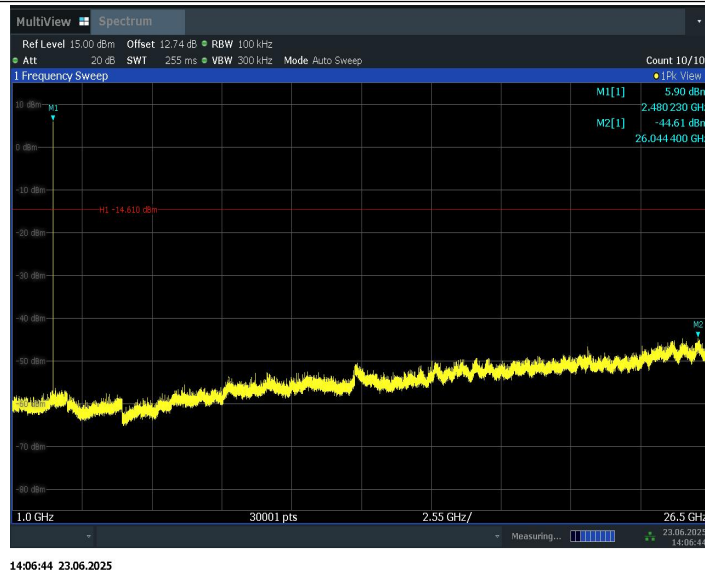
14:05:55 23.06.2025

DH5_2480_30~1000



14:06:08 23.06.2025

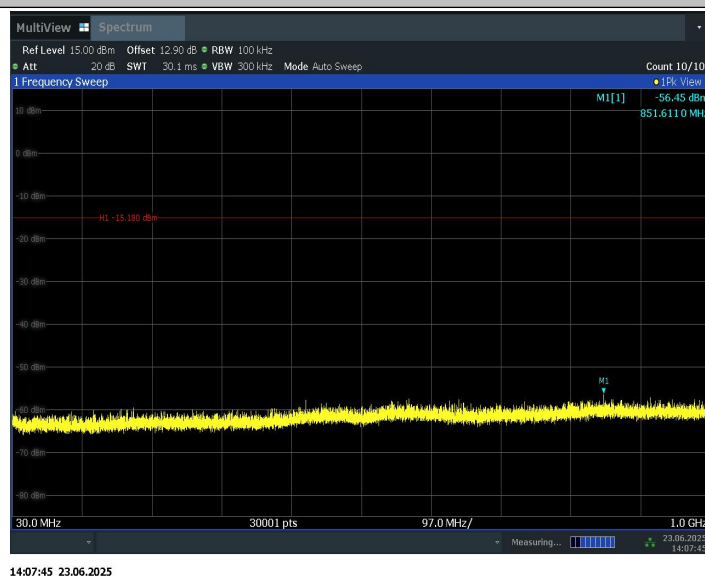
DH5_2480_1000~26500



2DH5_2402_0~Reference



2DH5_2402_30~1000

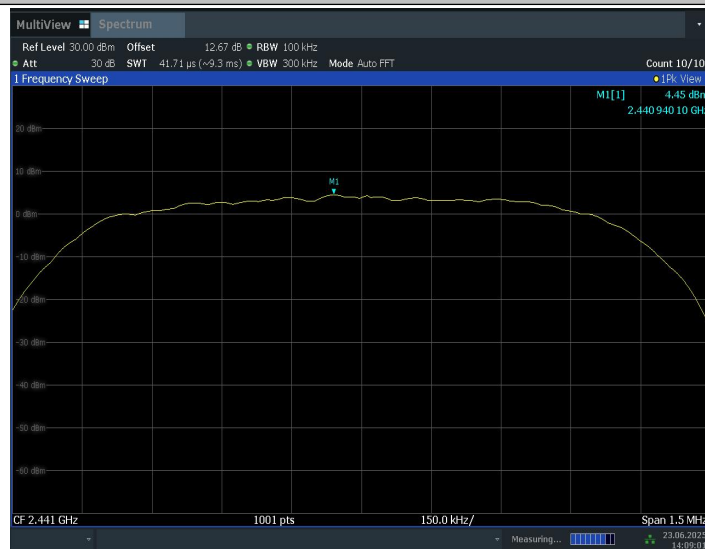


2DH5_2402_1000~26500



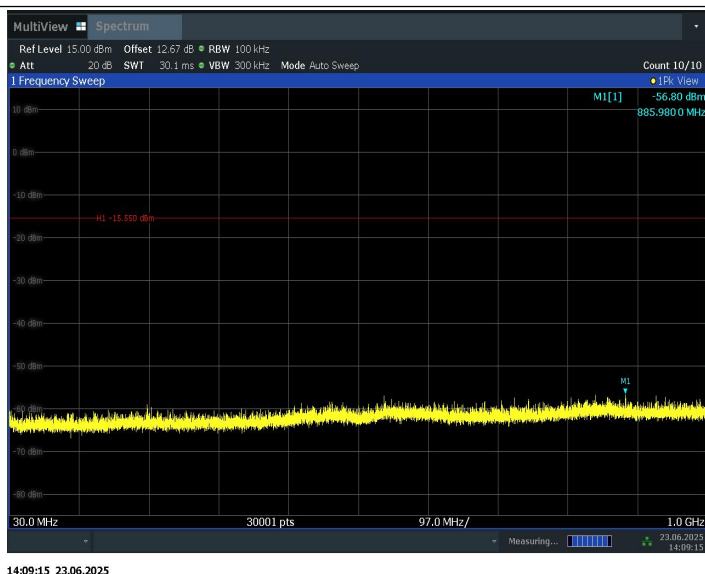
14:08:22 23.06.2025

2DH5_2441_0~Reference

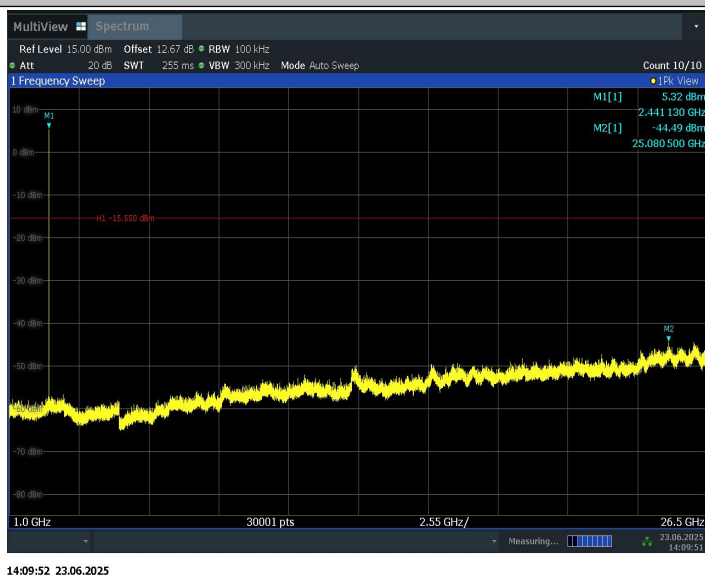


14:09:02 23.06.2025

2DH5_2441_30~1000



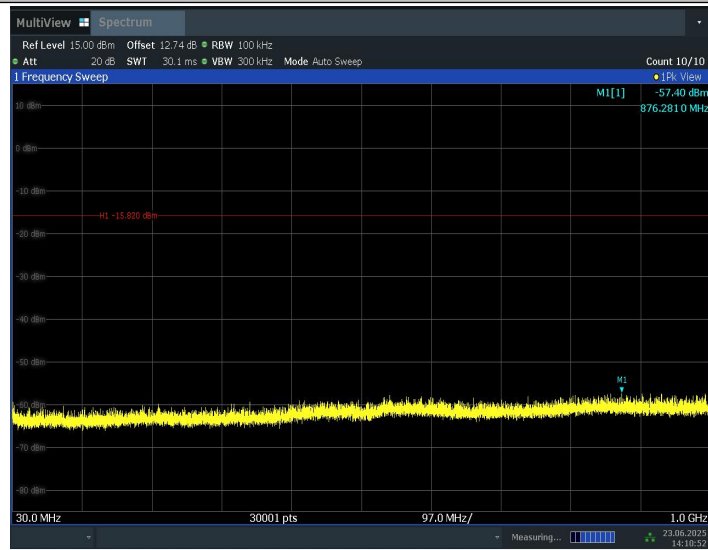
2DH5_2441_1000~26500



2DH5_2480_0~Reference

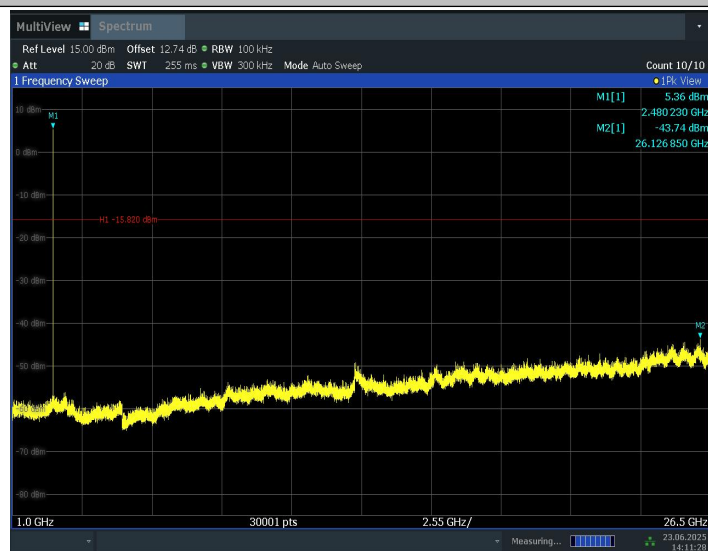


2DH5_2480_30~1000



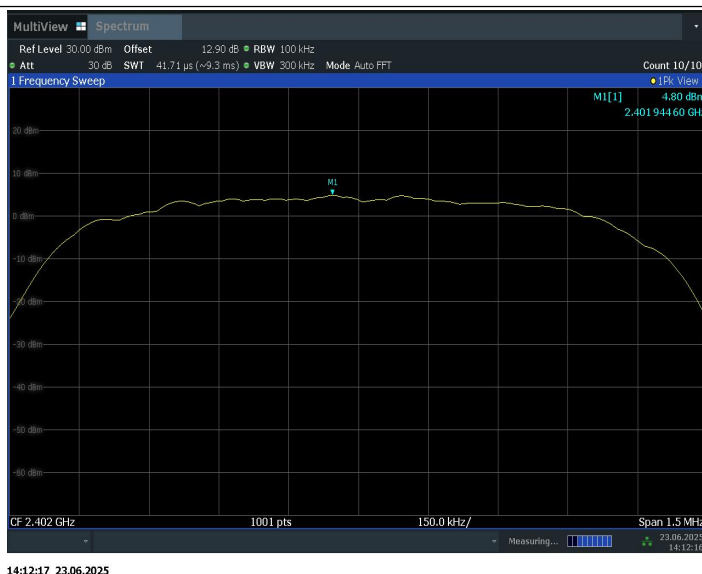
14:10:53 23.06.2025

2DH5_2480_1000~26500

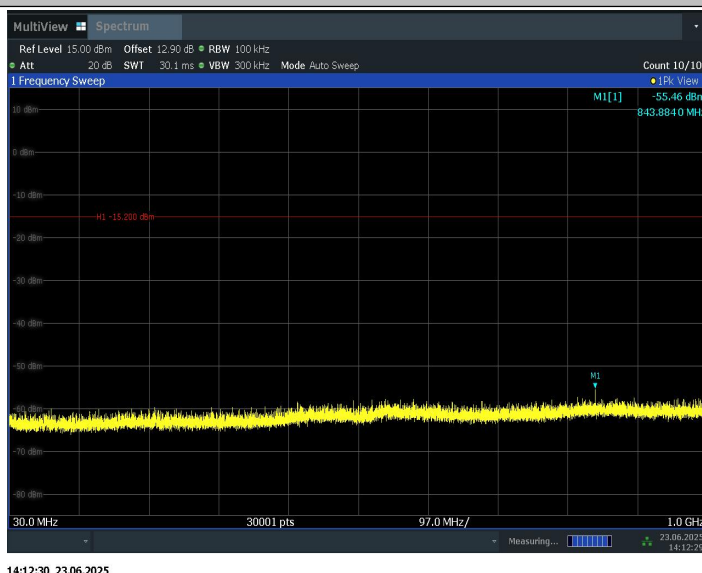


14:11:29 23.06.2025

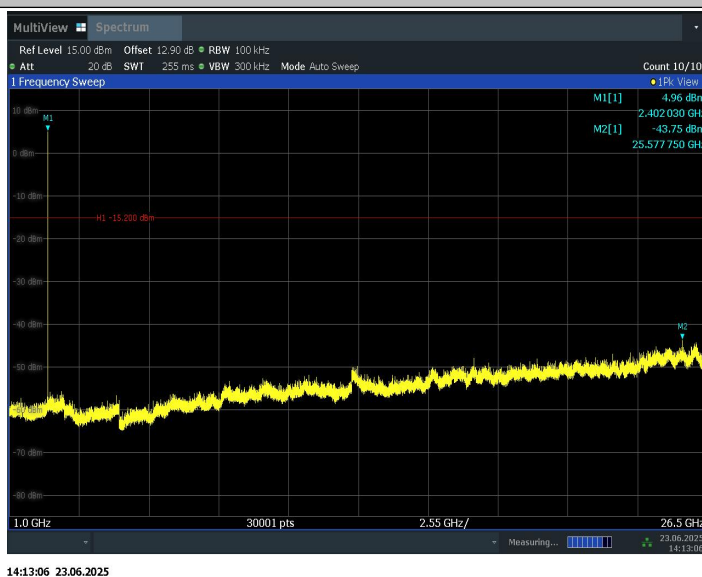
3DH5_2402_0~Reference



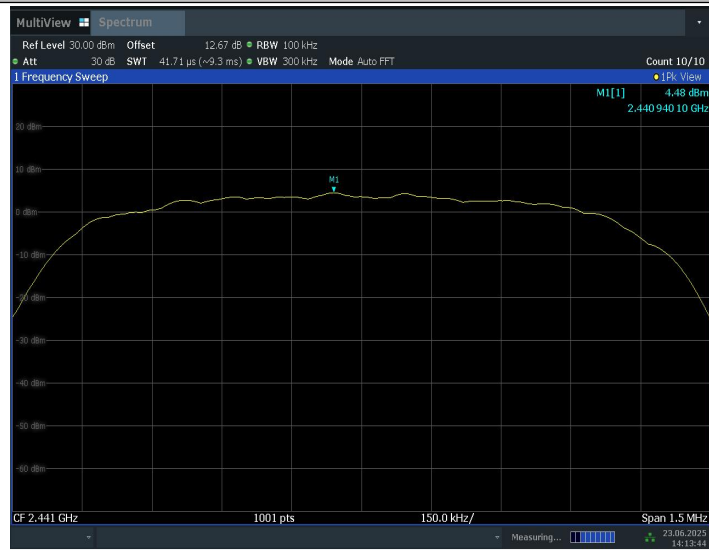
3DH5_2402_30~1000



3DH5_2402_1000~26500

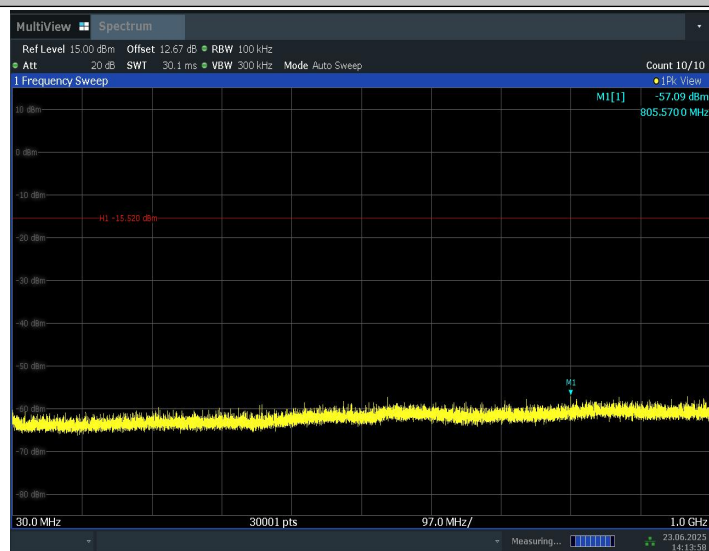


3DH5_2441_0~Reference



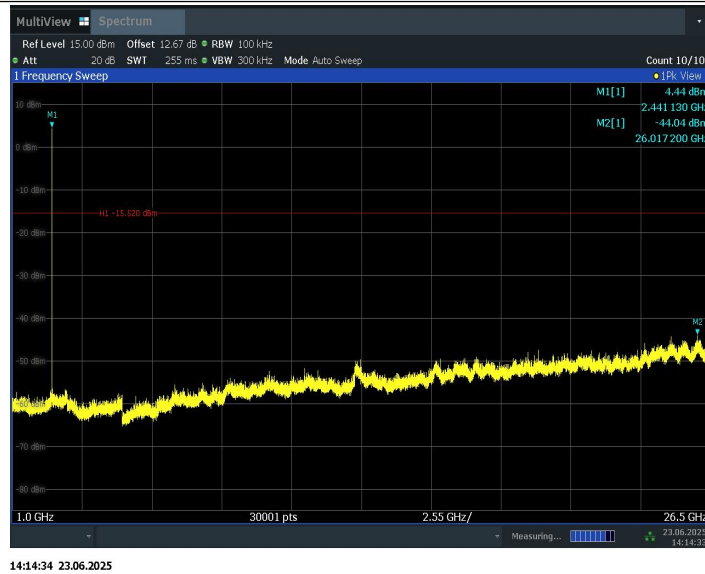
14:13:45 23.06.2025

3DH5_2441_30~1000



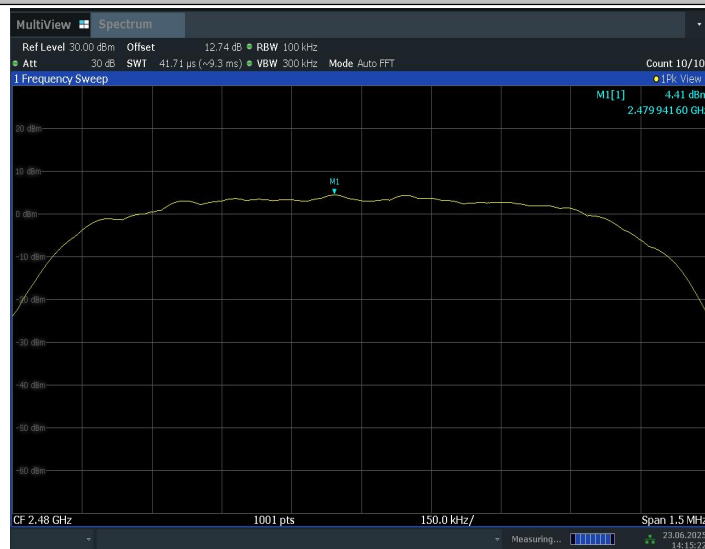
14:13:58 23.06.2025

3DH5_2441_1000~26500



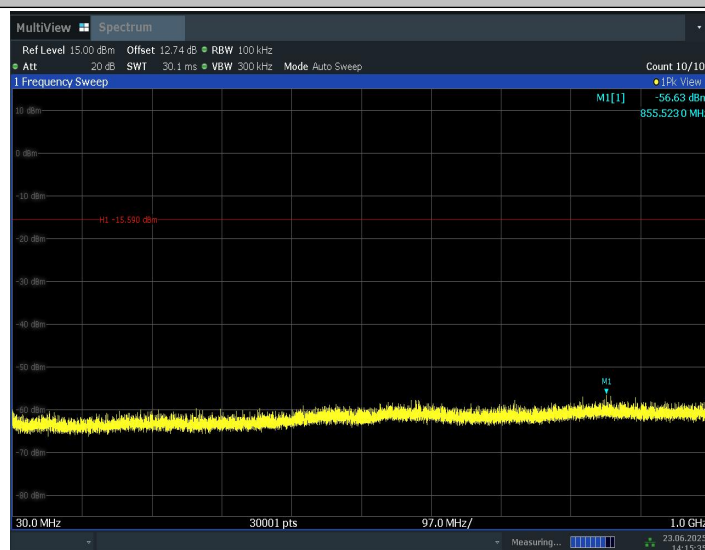
14:14:34 23.06.2025

3DH5_2480_0~Reference

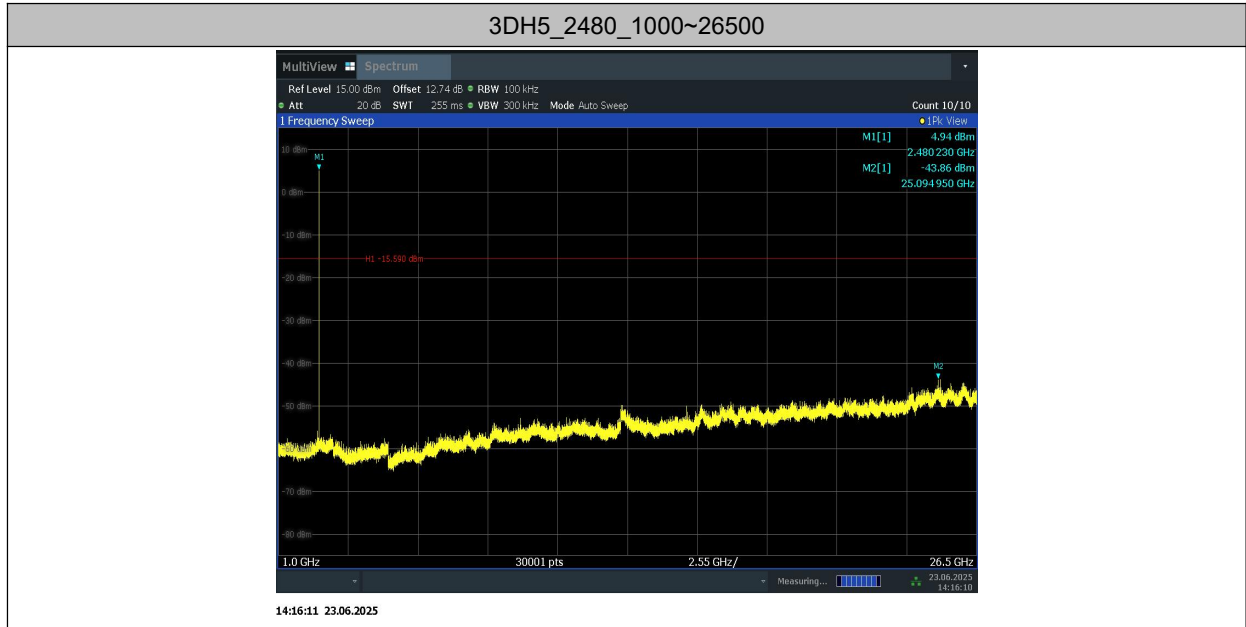


14:15:22 23.06.2025

3DH5_2480_30~1000



14:15:35 23.06.2025



Conclusion: PASS

B.5. Radiated Unwanted Emission

Limits

Measurement Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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)).

Limit in restricted band

Frequency (MHz)	Field strength($\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

Test setup

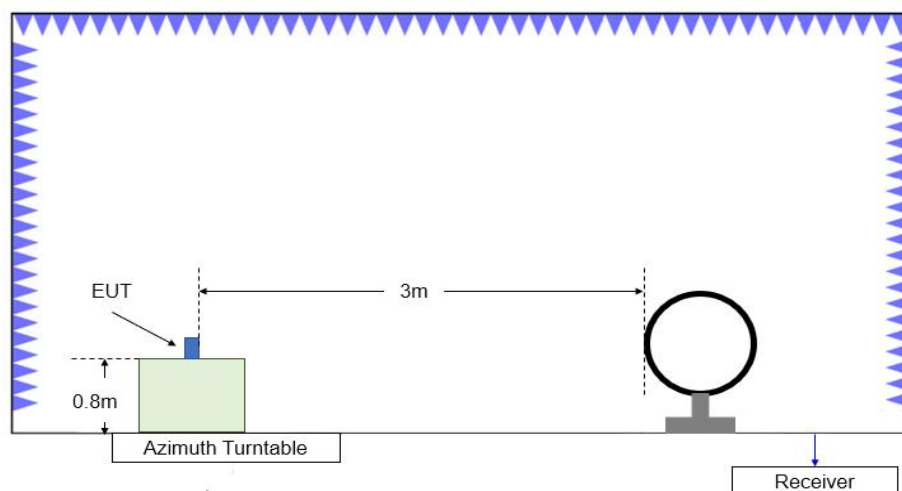


Figure B.5.1. Test Site Diagram (9kHz-30MHz)

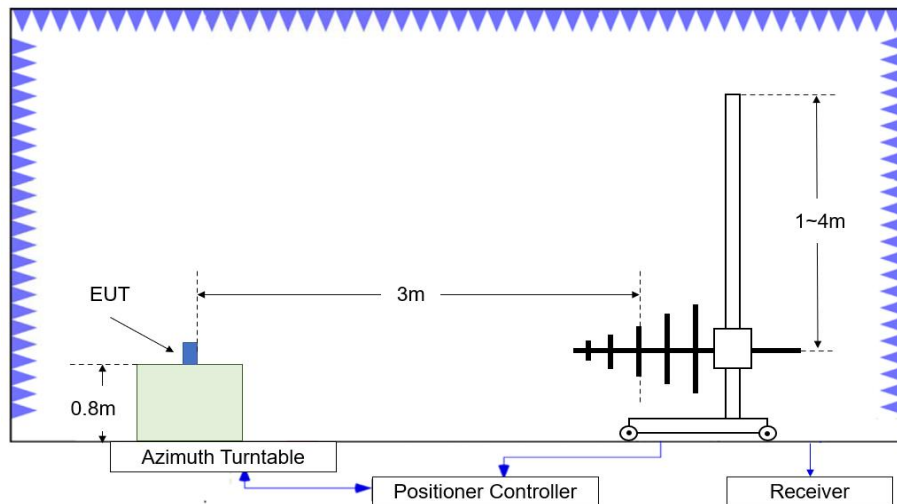


Figure B.5.2. Test Site Diagram (30MHz-1GHz)

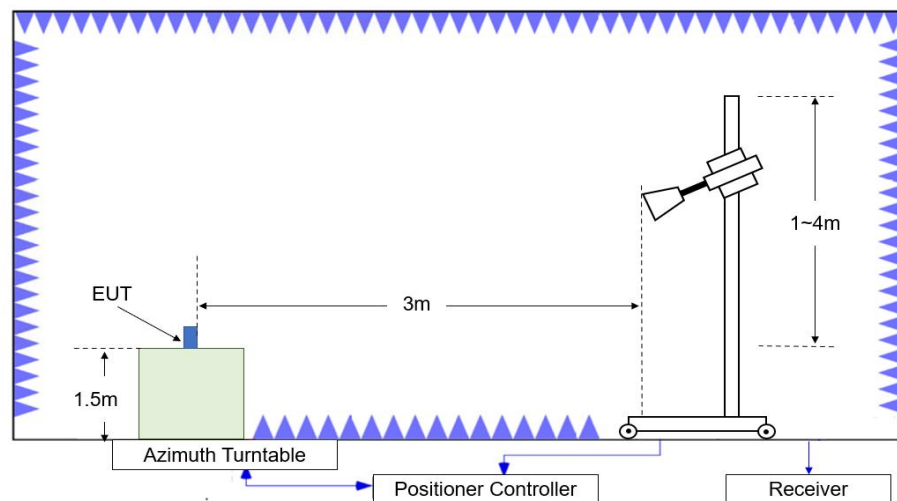


Figure B.5.3. Test Site Diagram (1GHz-40GHz)

Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10-2013 (ANSI C63.10-2020).

Test setting

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-3000	1MHz/3MHz	15
3000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculation

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}= P_{Mea}+Cable\ Loss+Antenna\ Factor$

Test note

1. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
2. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
3. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.

Test Result

EUT ID: UT10a

Radiated Spurious Emission

GFSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.500	57.31	-25.40	42.30	40.41	74.00	16.69	H
14123.000	51.43	-29.40	40.50	40.33	74.00	22.57	H
3119.500	50.24	-37.50	29.60	58.14	74.00	23.76	H
5204.500	50.17	-36.50	32.80	53.87	74.00	23.83	V
12786.000	49.03	-30.40	39.60	39.83	74.00	24.97	V
2368.600	56.11	-19.20	27.30	48.01	74.00	17.89	H

GFSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17904.000	56.24	-25.40	42.30	39.34	74.00	17.76	H
5212.000	53.32	-36.50	32.80	57.02	74.00	20.68	V
13719.000	52.24	-29.10	40.70	40.64	74.00	21.76	H
3181.000	50.91	-37.40	29.70	58.61	74.00	23.09	H
12969.500	49.16	-29.80	39.70	39.26	74.00	24.84	H
9536.000	47.39	-33.20	38.00	42.59	74.00	26.61	V

GFSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17934.500	56.35	-25.40	42.30	39.45	74.00	17.65	V
14134.000	51.95	-29.40	40.50	40.85	74.00	22.05	H
3153.500	51.39	-37.50	29.60	59.29	74.00	22.61	H

5245.500	51.30	-36.50	32.80	55.00	74.00	22.70	V
12400.000	49.27	-30.10	38.80	40.57	74.00	24.73	H
2488.100	57.49	-19.00	27.90	48.59	74.00	16.51	H

$\pi/4$ DQPSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17909.500	55.90	-25.40	42.30	39.00	74.00	18.10	H
13789.000	52.45	-29.10	40.90	40.65	74.00	21.55	V
5220.000	50.65	-36.50	32.80	54.35	74.00	23.35	V
3143.500	50.60	-37.50	29.60	58.50	74.00	23.40	H
12365.000	49.92	-30.10	38.80	41.22	74.00	24.08	H
2313.500	56.03	-19.30	27.30	48.03	74.00	17.97	H

$\pi/4$ DQPSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17933.500	57.06	-25.40	42.30	40.16	74.00	16.94	H
13775.000	51.49	-29.10	40.90	39.69	74.00	22.51	V
3156.500	51.20	-37.50	29.60	59.10	74.00	22.80	H
5198.500	50.70	-36.50	32.80	54.40	74.00	23.30	V
12733.000	48.96	-30.40	39.40	39.96	74.00	25.04	V
8623.000	46.91	-34.20	37.70	43.41	74.00	27.09	H

$\pi/4$ DQPSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17939.500	56.01	-25.40	42.30	39.11	74.00	17.99	V
5208.500	52.38	-36.50	32.80	56.08	74.00	21.62	V
13797.000	51.55	-29.10	40.90	39.75	74.00	22.45	H
3181.000	50.54	-37.40	29.70	58.24	74.00	23.46	H
12851.500	48.88	-30.60	39.60	39.88	74.00	25.12	V
2488.200	56.93	-19.00	27.90	48.03	74.00	17.07	H

8DPSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17937.000	56.47	-25.40	42.30	39.57	74.00	17.53	H
3132.000	52.46	-37.50	29.60	60.36	74.00	21.54	H
13751.000	51.68	-29.10	40.70	40.08	74.00	22.32	H
5204.000	49.94	-36.50	32.80	53.64	74.00	24.06	V
12541.500	48.92	-30.40	39.00	40.32	74.00	25.08	V
2343.900	56.07	-19.20	27.30	47.97	74.00	17.93	V

8DPSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17890.500	55.91	-25.40	42.30	39.01	74.00	18.09	V
14144.500	51.67	-29.40	40.50	40.57	74.00	22.33	H
5223.000	51.33	-36.50	32.80	55.03	74.00	22.67	V
3181.000	51.14	-37.40	29.70	58.84	74.00	22.86	H
12961.000	49.68	-29.80	39.70	39.78	74.00	24.32	H
9616.500	47.64	-33.00	37.90	42.74	74.00	26.36	H

8DPSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.500	56.53	-25.40	42.30	39.63	74.00	17.47	H
3178.500	51.89	-37.40	29.70	59.59	74.00	22.11	H
14110.500	51.54	-29.40	40.50	40.44	74.00	22.46	V
5208.500	48.98	-36.50	32.80	52.68	74.00	25.02	V
12513.000	48.89	-30.10	39.00	39.99	74.00	25.11	V
2487.500	57.87	-19.00	27.90	48.97	74.00	16.13	H

Average Measurement results

GFSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.000	46.64	-25.40	42.30	29.74	54.00	7.36	H
13814.500	42.05	-29.10	40.90	30.25	54.00	11.95	V
12399.000	39.51	-30.10	38.80	30.81	54.00	14.49	H
9710.000	37.28	-33.10	37.90	32.48	54.00	16.72	H
7816.000	36.16	-34.70	37.10	33.76	54.00	17.84	H
2373.000	43.98	-19.20	27.30	35.88	54.00	10.02	H

GFSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17897.500	46.39	-25.40	42.30	29.49	54.00	7.61	V
14113.500	42.01	-29.40	40.50	30.91	54.00	11.99	H
11796.000	39.24	-31.30	38.90	31.64	54.00	14.76	V
6565.000	38.51	-35.20	35.90	37.81	54.00	15.49	V
3661.000	37.65	-37.40	30.50	44.55	54.00	16.35	V
9637.500	37.54	-33.00	37.90	32.64	54.00	16.46	V

GFSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17950.000	46.80	-25.40	42.30	29.90	54.00	7.20	H
13807.000	41.85	-29.10	40.90	30.05	54.00	12.15	V
3172.500	39.44	-37.40	29.70	47.14	54.00	14.56	H
12826.500	39.36	-30.60	39.60	30.36	54.00	14.64	H
6565.000	38.84	-35.20	35.90	38.14	54.00	15.16	V
2497.200	44.32	-19.00	27.90	35.42	54.00	9.68	H

$\pi/4$ DQPSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17898.500	47.16	-25.40	42.30	30.26	54.00	6.84	H
13727.000	42.15	-29.10	40.70	30.55	54.00	11.85	H
12788.000	39.42	-30.40	39.60	30.22	54.00	14.58	H
3603.000	39.02	-37.50	30.40	46.12	54.00	14.98	V
6565.000	38.40	-35.20	35.90	37.70	54.00	15.60	V
2347.900	44.16	-19.20	27.30	36.06	54.00	9.84	V

 $\pi/4$ DQPSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17915.500	46.87	-25.40	42.30	29.97	54.00	7.13	H
13780.000	42.13	-29.10	40.90	30.33	54.00	11.87	V
12371.000	39.54	-30.10	38.80	30.84	54.00	14.46	H
6565.000	39.08	-35.20	35.90	38.38	54.00	14.92	V
8890.000	37.06	-33.60	37.70	32.96	54.00	16.94	V
3167.500	36.78	-37.50	29.60	44.68	54.00	17.22	H

 $\pi/4$ DQPSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17919.000	46.70	-25.40	42.30	29.80	54.00	7.30	H
14136.500	42.22	-29.40	40.50	31.12	54.00	11.78	H
12775.000	39.92	-30.40	39.60	30.72	54.00	14.08	V
6565.000	38.24	-35.20	35.90	37.54	54.00	15.76	V
9025.000	37.12	-33.60	37.60	33.12	54.00	16.88	V
2494.800	44.68	-19.00	27.90	35.78	54.00	9.32	V

8DPSK Ch 0

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17912.500	46.56	-25.40	42.30	29.66	54.00	7.44	H
14114.500	42.11	-29.40	40.50	31.01	54.00	11.89	V
12830.500	39.28	-30.60	39.60	30.28	54.00	14.72	V
3125.000	38.73	-37.50	29.60	46.63	54.00	15.27	H
6565.000	38.55	-35.20	35.90	37.85	54.00	15.45	V
2373.200	44.09	-19.20	27.30	35.99	54.00	9.91	V

8DPSK Ch 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.000	46.76	-25.40	42.30	29.86	54.00	7.24	H
14077.500	42.14	-28.70	40.50	30.34	54.00	11.86	V
12797.500	39.83	-30.40	39.60	30.63	54.00	14.17	H
6565.000	38.79	-35.20	35.90	38.09	54.00	15.21	V
3173.500	37.38	-37.40	29.70	45.08	54.00	16.62	H
9548.500	37.24	-33.20	38.00	32.44	54.00	16.76	V

8DPSK Ch 78

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17927.500	46.56	-25.40	42.30	29.66	54.00	7.44	H
14122.500	42.01	-29.40	40.50	30.91	54.00	11.99	H
12997.000	39.30	-29.80	39.80	29.30	54.00	14.70	H
6565.000	38.61	-35.20	35.90	37.91	54.00	15.39	V
3164.500	37.87	-37.50	29.60	45.77	54.00	16.13	H
2493.600	44.69	-19.00	27.90	35.79	54.00	9.31	H

Conclusion: Pass

Note: the spurious emission above 18G is noise only and did not show on the report.

Band edge compliance

Mode	Channel	Frequency Range	Test Results	Conclusion
GFSK	0	2.31GHz ~2.43GHz	Fig.1	P
	78	2.45GHz ~2.5GHz	Fig.2	P