TEST REPORT

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Project Number	:	EA2608C-115
Test Report Number	:	TR-W2608D-039
Type of Equipment	:	HEIS.TCU
Model Name	:	HEIS.TCU String-Power 6Ah
Additional Model Name(s)	:	-
Applicant	:	Hanwha Energy Corporation
Address	:	411, Hannuri-daero, Sejong-si, South Korea
Manufacturer	:	Hanwha Energy Corporation
Address	:	411, Hannuri-daero, Sejong-si, South Korea
Product Standard	:	FCC Part 15 Subpart C 15.247
Date of Receipt	:	2026-08-18
Date(s) of tests	:	2026-08-22 ~ 2026-08-28
Date of Issue	:	2026-08-31
Test Result	:	PASS

This test report only contains the result of a single test of the sample supplied for the examination.
It is not a generally valid assessment of the features of the respective products of the mass-production.

Prepared by	Approved by
Hong, Sun-duk / Engineer	Shin, Jong-myoung / Team Leader

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Revision History

Date	Report No.	Description	Revised By	Reviewed By
2026-08-31	TR-W2608-039	Initial report	Hong, Sun-duk	Shin, Jong-myoung

1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant Information

Applicant	Hanwha Energy Corporation
Applicant Address	411, Hannuri-daero, Sejong-si, South Korea
Contact Person	Lee Sangrok
Telephone No.	+82-44-850-3400
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1.2 Manufacturer Information

Manufacturer	Hanwha Energy Corporation
Manufacturer Address	411, Hannuri-daero, Sejong-si, South Korea

1.3 Test Laboratory Information

Laboratory	JNM Korea Testing Center Co. Ltd.
Laboratory Address	135-60 Gyeongchung-daero, Gonjiam-eup,Gwangju-si, Gyeonggi-do, Korea 12813
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FCC Designation No.	KR0160
FCC Registration No.	244522
IC Site Registration No.	12721A

2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	HEIS.TCU
Model Name	HEIS.TCU String-Power 6Ah
FCC ID	2BNNP-STRINGTCU
Rated Voltage	DC 1 500 V
Operating Frequency	Bluetooth LE 1M : 2 402 MHz ~ 2 480 MHz Zigbee : 2 405 MHz ~ 2 480 MHz
Number of channel	Bluetooth LE 1M : 40 Zigbee : 16
Modulation Type	Bluetooth LE 1M : GFSK Zigbee : DSSS
Antenna Type	Bluetooth LE 1M : Chip Antenna (with Max gain: 3.50 dBi) Zigbee : Dipole antenna (with Max gain: 2.00 dBi)
Firmware Version	1.0
Hardware Version	1.0
Test software	Bluetooth LE 1M : nRFgo Studio V1.21.2.10 Zigbee : Tera term V5.6.0

2.2 Test Frequency

Test mode	Test Frequency (MHz)		
	Low Frequency	Middle Frequency	High Frequency
Bluetooth LE 1M	2 402	2 442	2 480
Zigbee	2 405	2 440	2 480

2.3 Mode of operation during the test

Test Mode	Antenna Type & Gain		
	Model Name	Type	Gain
Bluetooth LE 1M	SHLA6212442A	Chip Antenna	4.56 dBi
Zigbee	LA-24T-ANT	Dipole Antenna	2.00 dBi

2.4 Modifications of EUT

- None

D9/16/2026

3. TEST SUMMARY

Applied	FCC Rule	Test Items	Test Condition	Note
☒	15.203	Antenna Requirement	Conducted	C
☐	15.247(a)	6 dB Bandwidth		NT Note2
☐	-	Occupied Bandwidth (99%)		NT Note2
☐	15.247(b)	Maximum Peak Output Power		NT Note2
☐	15.247(e)	Peak Power Spectral Density		NT Note2
☐	15.247(d)	Conducted Spurious Emission		NT Note2
☒	15.247(d) 15.205 & 15.209	Radiated Spurious Emission	Radiated	C
☐	15.207	Conducted Emissions	AC Line Conducted	NA Note3

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable
Note 2: This test was not performed; previously evaluated under original Report No.:
[Bluetooth LE 1M] : Report No.: ETLT180307.0036 / FCC ID : 2APB6-BOT-NLE521
[Zigbee] Report No.: E2/2018/50099-01 / FCC ID : SH6MDBT50Q
Note 3: This product is only using DC Power. So, AC conducted emission test has not been performed.

The sample was tested according to the following specification: ANSI C63.10-2020.
Compliance was determined by specification limits of the applicable standard according to customer requirements.

4. Used equipment on test

	Description	Manufacturer	Model Name	Serial No.	Next Cal.
☐	Signal&Spectrum Analyzer	Rohde & Schwarz	FSW 43	100578	2026-12-09
☐	OSCILLO SCOPE	Rohde & Schwarz	RTO 1044	201006	2026-12-11
☒	Signal Generator	Rohde & Schwarz	SMF100A	101441	2026-12-17
☐	Vector Signal Generator	Rohde & Schwarz	SMBV100A	257560	2026-12-08
☐	Power Module	Rohde & Schwarz	OSP 120	101389	2026-12-09
☐	Attenuator	Rohde & Schwarz	10dB	ENG-1	2026-12-09
☐	Attenuator	Rohde & Schwarz	10dB	ENG-2	2026-12-09
☐	Attenuator	Rohde & Schwarz	10dB	ENG-3	2026-12-09
☐	Attenuator	Rohde & Schwarz	10dB	ENG-4	2026-12-09
☐	Attenuator	WEINSCHEL	56-10	58769	2026-12-10
☐	DC Power Supply	AGILENT	E3610A	MY40005644	2026-12-08
☐	Directional Coupler	AAMCS	AAMCS-UDC-0.5G-18G-SF	757	2026-12-09
☐	Splitter	Minicircuits	ZFRSC-42-S+	UU90901305	2026-12-09
☐	Audio Analyzer	Rohde & Schwarz	UPL	100080	2026-12-09
☐	Arbitrary Waveform Generator	Agilent	33120A	MY40026605	2026-12-08
☐	Microwave Counter	HP	5347A	3009A00350	2026-12-11, 2026-12-17
☐	Attenuator	HP	8494B	3308A38821	2026-12-09
☐	Attenuator	HP	8496B	3308A37988	2026-12-09
☐	Temperature & Humidity Chamber	Espec	SH-241	92012087	2026-12-08
☐	Modulation Analyzer	HP	8901B	2086A01868	2026-12-08
☐	Band Stop filter	MICRO-TRONICS	HPM17543	019	2027-06-22

☐	Band Stop filter	MICRO-TRONICS	HPS17542	019	2027-06-22
☐	Band Stop filter	MICRO-TRONICS	LPS17541	018	2027-06-22
☐	DC POWER SUPPLY	Agilent	U8001A	MY51080019	2027-06-22
☐	MOBILE CORDER	YOKOGAWA	MV100	SSD906150	2026-12-17
☒	Horn Antenna	Schwarzbeck	BBHA 9170	783	2027-06-27
☒	PRE AMPLIFIER	CERNEX	CBL18265035	28706	2026-12-10
☒	PRE AMPLIFIER	CERNEX	CBL26405040	28707	2026-12-10
☐	Bluetooth Tester	TESCOM	TC-3000C	3000C000534	2027-06-22
☐	Notch Filter	MICRO-TRONICS	BRM50702	G318	2027-06-22
☐	Notch Filter	MICRO-TRONICS	BRC50703	G139	2027-06-22
☐	Notch Filter	MICRO-TRONICS	BRC50704	G122	2027-06-22
☐	Notch Filter	MICRO-TRONICS	BRC50705	G126	2027-06-22
☐	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	1201.0002K50	2027-01-06
☐	Attenuator	MIDWEST MICROWAVE	ATT-0392-30-NNN-07	30dB	2026-12-09
☐	System Power Supply	AGILENT	6032A	SG41000637	2026-12-08
☐	Signal Generator	AGILENT	N5182A	MY46240207	2026-12-08
☐	Tunable Band Reject Filter	Wainwright Instruments GmbH	WTRCT10-2300-2500-10-20-40SSK	2	2026-12-10
☐	High Pass Filter	Wainwright Instruments GmbH	WHW2-13500-18000-33000-40CC	4	2026-12-10
☐	Power Sensor	HP	E9300A	US39210391_JW	2026-12-08
☐	Power Sensor	Agilent	E9300A	MY41499519	2026-12-08
☐	EPM-P Series	Agilent	E4417A	MY45101122_JW	2026-12-08
☐	Spectrum Analyzer	AGILENT	E4405B	MY41440716	2027-06-22
☐	Temperature & Humidity Chamber	Espec	SH-261	92002283	2026-12-08

☐	Digital Recorder	YOKOGAWA	FX-106-4	S5E906616	2026-12-17
☐	Temperature & Humidity Chamber	YUASA	CL09	J0000062	2026-12-08
☐	RF Termination	Agilent	902C	53865	2027-06-23
☐	Signal Analyzer	Rohde & Schwarz	FSVA40	101698	2027-01-08
☐	Attenuator	NONE	NONE	ENG-5	2027-01-08
☐	Attenuator	NONE	NONE	ENG-6	2027-01-08
☐	Power Divider	ACE RF COMM	P-M508.S220.1	20260002	2027-01-28
☐	Directional Coupler	EXYNOD	PSDC-00501800-10S30	260104	2027-01-28
☒	Signal & Spectrum Analyzer	Rohde & Schwarz	FSVA3044	100946	2026-12-19
☒	DC POWER SUPPLY	SEJIN ELECTRONICS. CO	SJ-P015200	230900241	2027-08-21
☐	Slidacs	DAEKWANG ELCTRONIC SLI	SV-5023	-	N/A
☐	RF Switch	T&M System	TMX81D	TM21020001	N/A
☒	Test Receiver	Rohde & Schwarz	ESU26	100303	2026-12-12
☒	TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-770	2027-08-05
☒	Loop Antenna	Rohde & Schwarz	HFH2-Z2	100341	2027-05-22
☒	PRE-AMPLIFIER	Sonoma Instrument	310N	344015	2026-12-09
☒	TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-474	2027-08-05
☒	Loop Antenna	Rohde & Schwarz	HFH2-Z2	100147	2027-07-03
☒	Horn Antenna	Rohde & Schwarz	HF 907	102426	2027-07-02
☒	PRE-AMPLIFIER	Rohde & Schwarz	SCU 18D	19006450	2026-12-09
☒	6 dB Attenuators	Pasternack	PE7390-6	1818	2027-08-05
☐	LISN	Rohde & Schwarz	ENV4200	100203	2026-12-08
☐	LISN	SchwarzBeck	NNLK8130	8130-157	2026-06-26

☐	LISN	AFJ	LS16C	16011403310	2026-07-16
☐	V-LISN	Schwarzbeck	NNBM 8124	6670	2027-06-22
☐	V-LISN	Schwarzbeck	NNBM 8124	6671	2027-06-22
☐	LISN	Rohde & Schwarz	ENV216	102572	2026-12-08
☒	Turn Table	INNCO SYSTEM	DT3000-3t	1310814	N/A
☒	Antenna Master	INNCO SYSTEM	MA4000-EP	4600814	N/A
☒	Antenna Master	INNCO SYSTEM	MA4000-XP-ET	-	N/A
☒	Camera Controller	PONTIS	HDCon4102	6531445048	N/A
☒	CO3000 Controller	INNCO SYSTEM	Co3000-4Port	CO3000/806/34130814/L	N/A
☒	CO3000 Controller	INNCO SYSTEM	Co3000-4Port	CO3000/807/34130814/L	N/A

5. Antenna Requirement

According to §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.

According to §15.247(b)(4) the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.1 Result

Complies

(The transmitter has a Dipole Antenna using an RP-SMA(m) left-hand connector with a directional peak gain of 2.00 dBi, and a Chip Antenna for Bluetooth LE 1M with a directional peak gain of 4.56 dBi)

6. TX Radiated Spurious Emission

6.1 Test Setup

Refer to the APPENDIX I.

6.2 Limit

According to §15.247(d), 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 section §15.209(a) is not required. In addition, radiated emission which in the restricted band, as define in section §15.205(a), must also comply the radiated emission limits specified in section §15.209(a) (see section §15.205(c))

According to § 15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

Frequency (MHz)	Limit (uV/m)	Measurement Distance (meter)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100 **	3
88 ~ 216	150 **	3
216 ~ 960	200 **	3
Above 960	500	3

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 - 72 MHz, 76 - 88 MHz, 174 - 216 MHz or 470 – 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

According to § 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 ~ 0.110	16.42 ~ 16.423	399.9 ~ 410	4.5 ~ 5.15
0.495 ~ 0.505	16.69475 ~ 16.69525	608 ~ 614	5.35 ~ 5.46
2.1735 ~ 2.1905	16.80425 ~ 16.80475	960 ~ 1240	7.25 ~ 7.75
4.125 ~ 4.128	25.5 ~ 25.67	1300 ~ 1427	8.025 ~ 8.5
4.17725 ~ 4.17775	37.5 ~ 38.25	1435 ~ 1626.5	9.0 ~ 9.2
4.20725 ~ 4.20775	73 ~ 74.6	1645.5 ~ 1646.5	9.3 ~ 9.5
6.215 ~ 6.218	74.8 ~ 75.2	1660 ~ 1710	10.6 ~ 12.7
6.26775 ~ 6.26825	108 ~ 121.94	1718.8 ~ 1722.2	13.25 ~ 13.4
6.31175 ~ 6.31225	123 ~ 138	2200 ~ 2300	14.47 ~ 14.5
8.291 ~ 8.294	149.9 ~ 150.05	2310 ~ 2390	15.35 ~ 16.2
8.362 ~ 8.366	156.52475 ~ 156.52525	2483.5 ~ 2500	17.7 ~ 21.4
8.37625 ~ 8.38675	156.7 ~ 156.9	2690 ~ 2900	22.01 ~ 23.12
8.41425 ~ 8.41475	162.0125 ~ 167.17	3260 ~ 3267	23.6 ~ 24.0
12.29 ~ 12.293	167.72 ~ 173.2	3332 ~ 3339	31.2 ~ 31.8
12.51975 ~ 12.52025	240 ~ 285	3345.8 ~ 3358	36.43 ~ 36.5
12.57675 ~ 12.57725	322 ~ 335.4	3600 ~ 4400	Above 38.6
13.36 ~ 13.41			

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

6.3 Test Procedure for Radiated Spurious Emission

1. The EUT is placed on a non-conductive table. For emission measurements at or below 1 GHz, the table height is 80 cm. For emission measurements above 1 GHz, the table height is 1.5 m. The table was rotated 360 degrees to determine the position of the highest radiation.

2. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meters away from the interference-receiving antenna.

3. For measurements above 1 GHz absorbers are placed on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1 GHz, the absorbers are removed.

4. The antenna is a Broadband antenna, and its height 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.

5. 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 table was turned from 0 degrees to 360 degrees to find the maximum reading.
   (The EUT was pre-tested with three axes (X, Y, Z) and the final test was performed at the worst case.)

6. Repeat above procedures until the measurements for all frequencies are complete.

Measurement Instrument Setting

1. Frequency Range: Below 1 GHz

RBW = 100 or 120 kHz, VBW = 3 x RBW, Detector = Peak or Quasi Peak

2. Frequency Range: Above 1 GHz

Peak Measurement

RBW = 1 MHz, VBW = 3 MHz, Detector = Peak, Sweep time = Auto,

Trace mode = Max Hold until the trace stabilizes

Average Measurement

RBW = 1 MHz, VBW = 3 MHz, Detector = RMS (Number of points ≥ 2 x Span / RBW),

Trace Mode = Average (Averaging type = power(i.e. RMS)), Sweep Time = Auto,

Sweep Count = at least 100 traces

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the
emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor
is computed as follows:

1) If power averaging (RMS) mode was used in step 4, then the applicable correction factor is 10 log(1/x), where x is the duty cycle.
2) If linear voltage averaging mode was used in step 4, then the applicable correction factor is 20 log(1/x), where x is the duty cycle.
3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than tuning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

6.4 Test Result

9 kHz ~ 25 GHz Data for BLE 1M

- Low frequency

Frequency (MHz)	Reading (dBuV/m) AV	Reading (dBuV/m) Peak	Pol.	T.F (dB)	DCF (dB)	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Result (dBuV/m) AV	Result (dBuV/m) Peak	Margin (dB) AV	Margin (dB) Peak
2 337.760	29.49	40.85	H	-2.87	2.03	54.0	74.0	28.7	38.0	25.3	36.0
2 362.480	28.83	41.13	V	-2.77	2.03	54.0	74.0	28.1	38.4	25.9	35.6

- Middle frequency

Frequency (MHz)	Reading (dBuV/m) AV	Reading (dBuV/m) Peak	Pol.	T.F (dB)	DCF (dB)	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Result (dBuV/m) AV	Result (dBuV/m) Peak	Margin (dB) AV	Margin (dB) Peak

- High frequency

Frequency (MHz)	Reading (dBuV/m) AV	Reading (dBuV/m) Peak	Pol.	T.F (dB)	DCF (dB)	Limits (dBuV/m) AV	Limits (dBuV/m) Peak	Result (dBuV/m) AV	Result (dBuV/m) Peak	Margin (dB) AV	Margin (dB) Peak
2 484.31	31.81	41.55	H	-2.07	2.03	54.0	74.0	31.8	39.5	22.2	34.5
2 490.36	30.88	41.10	V	-2.07	2.03	54.0	74.0	30.8	39.0	23.2	35.0

Note 1: The radiated emissions were investigated 9 kHz to 25 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

Note 2: DCF(Duty Cycle Factor)

- T_{on} = 0.392 ms / T_{off} = 0.234 ms
- Duty Cycle = T_{on} / (T_{on}+T_{off}) = 0.392 / (0.392+0.234) = 0.626
- DCF = 10 x log(1/Duty Cycle) dB = 10 x log(1/0.626) dB = 2.03 dB

Note 3: Sample Calculation.

Margin = Limit – Result / Peak Result = Peak Reading + TF / Average Result = Average Reading + TF + DCF

TF = Ant factor + Cable Loss + Filter Loss – Amp Gain

9 kHz ~ 25 GHz Data for Zigbee

- Low frequency

Frequency	Reading		Pol.	T.F	DCF	Limits		Result		Margin	
	(dBuV/m)			(dB)	(dB)	(dBuV/m)		(dBuV/m)		(dB)	
(MHz)	AV / Peak					AV / Peak		AV / Peak		AV / Peak	
2341.28	33.54	44.22	H	-2.87	0.00	54.0	74.0	30.7	41.4	23.3	32.7
2338.48	29.18	41.28	V	-2.87	0.00	54.0	74.0	26.3	38.4	27.7	35.6

- Middle frequency

Frequency	Reading		Pol.	T.F	DCF	Limits		Result		Margin	
	(dBuV/m)			(dB)	(dB)	(dBuV/m)		(dBuV/m)		(dB)	
(MHz)	AV / Peak					AV / Peak		AV / Peak		AV / Peak	

- High frequency

Frequency	Reading		Pol.	T.F	DCF	Limits		Result		Margin	
	(dBuV/m)			(dB)	(dB)	(dBuV/m)		(dBuV/m)		(dB)	
(MHz)	AV / Peak					AV / Peak		AV / Peak		AV / Peak	
2483.50	53.79	60.65	H	-2.07	0.00	54.0	74.0	51.7	58.6	2.3	15.4
2483.50	46.55	53.86	V	-2.07	0.00	54.0	74.0	44.5	51.8	9.5	22.2

Note 1: The radiated emissions were investigated 9 kHz to 25 GHz. And no other spurious and harmonic emissions were found above listed frequencies.

Note 2: DCF(Duty Cycle Factor)

- Duty Cycle = 100 %

- DCF = 10 x log(1/Duty Cycle) dB = 10 x log(1/1) dB = 0.00 dB

Note 3: Sample Calculation.

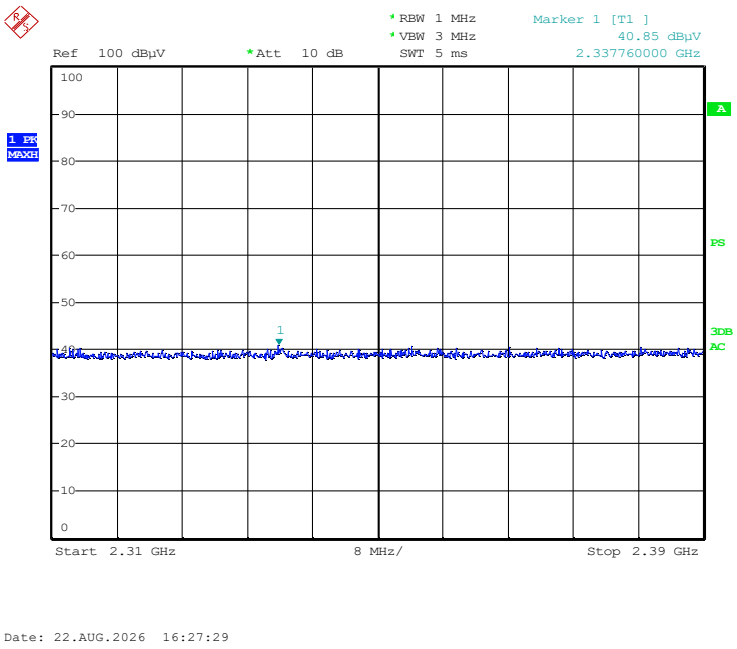
Margin = Limit – Result / Peak Result = Peak Reading + TF / Average Result = Average Reading + TF + DCF

TF = Ant factor + Cable Loss + Filter Loss – Amp Gain

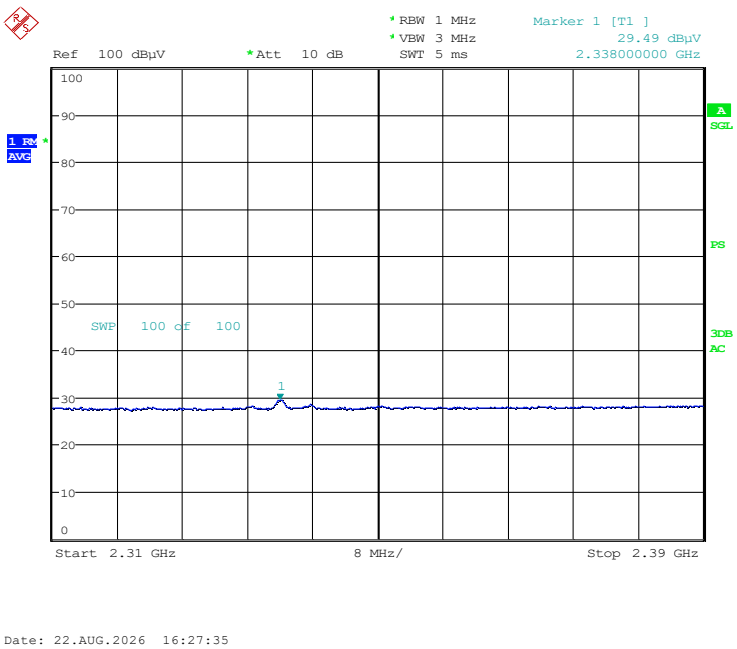
6.5 Test Plot for Radiated Spurious Emission

BLE 1M _ Low frequency

H	Restricted Band – Peak

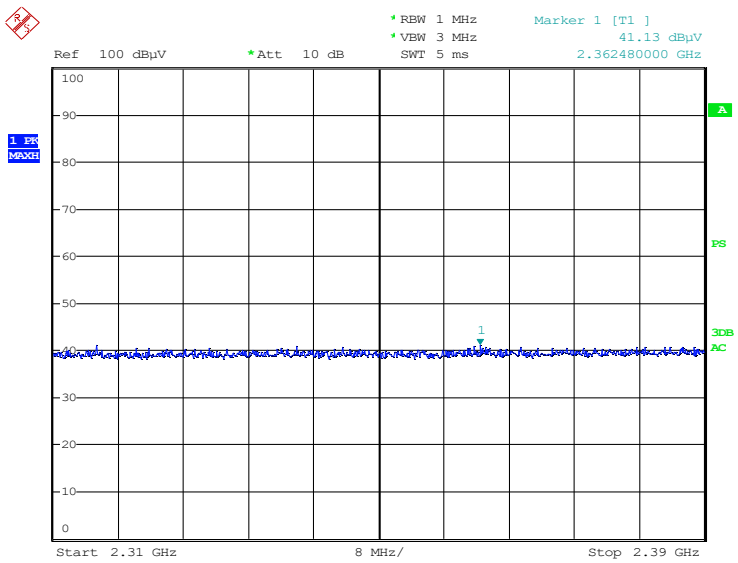


H	Restricted Band – Average

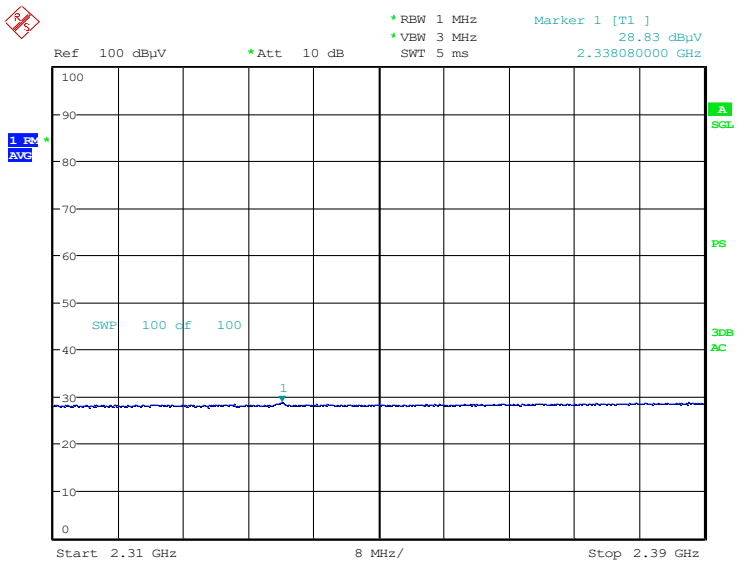


BLE 1M _ Low frequency

V	Restricted Band – Peak

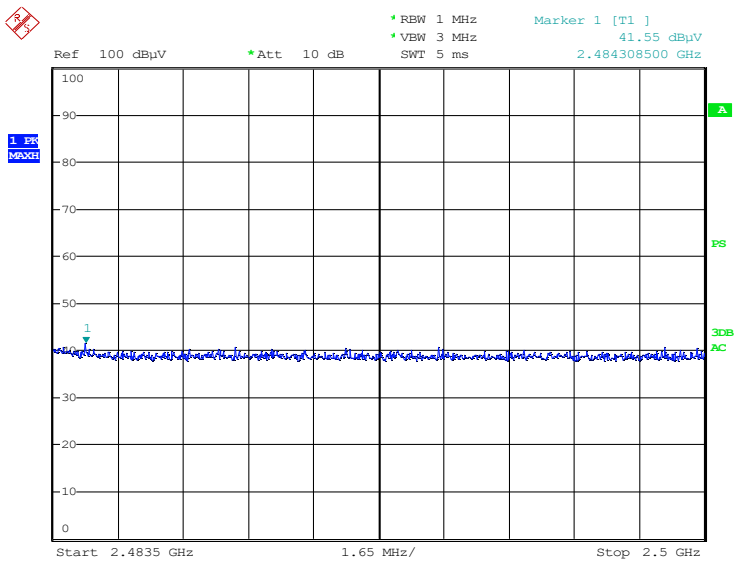


V	Restricted Band – Average

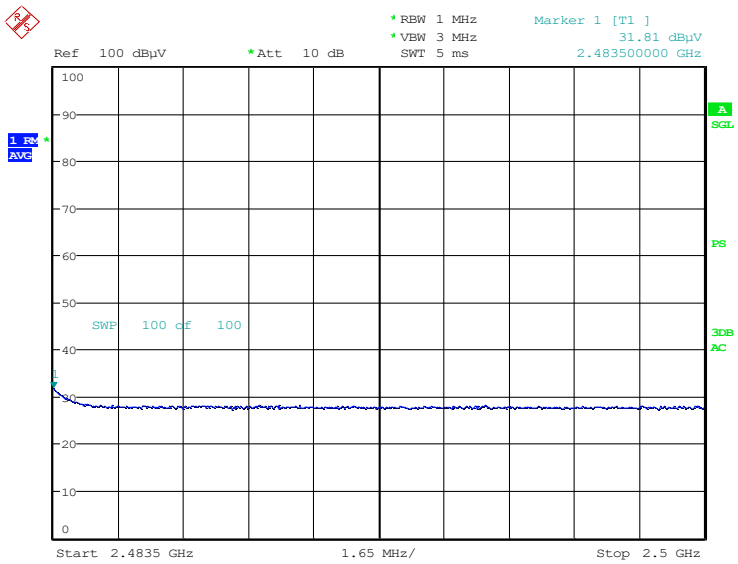


BLE 1M _ High frequency

H	Restricted Band – Peak

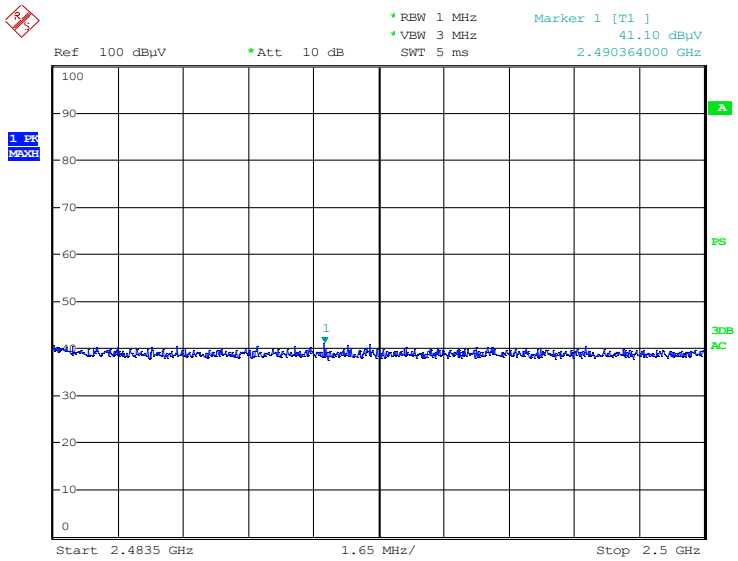


H	Restricted Band – Average

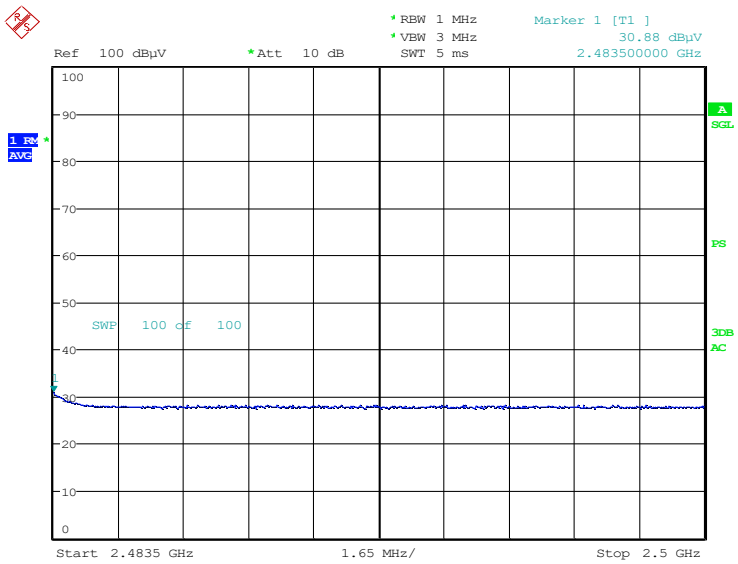


BLE 1M _ High frequency

V	Restricted Band – Peak

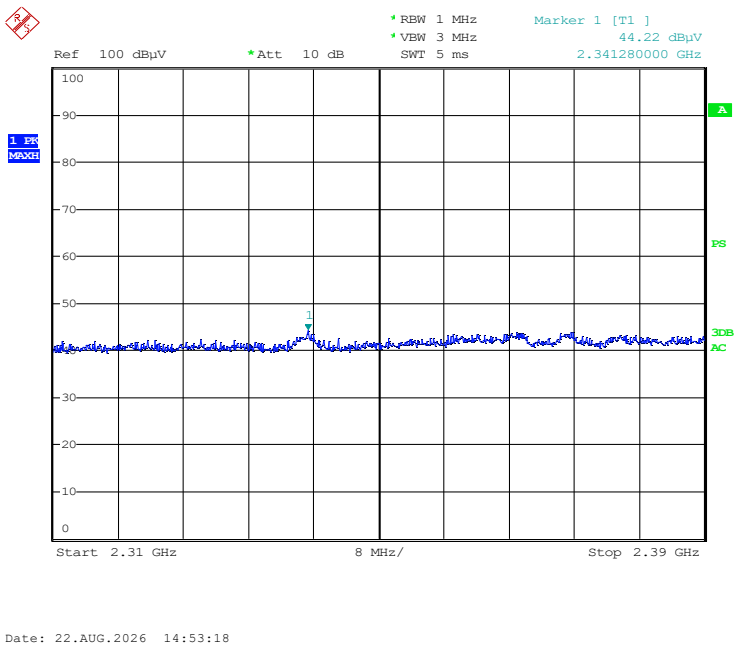


V	Restricted Band – Average

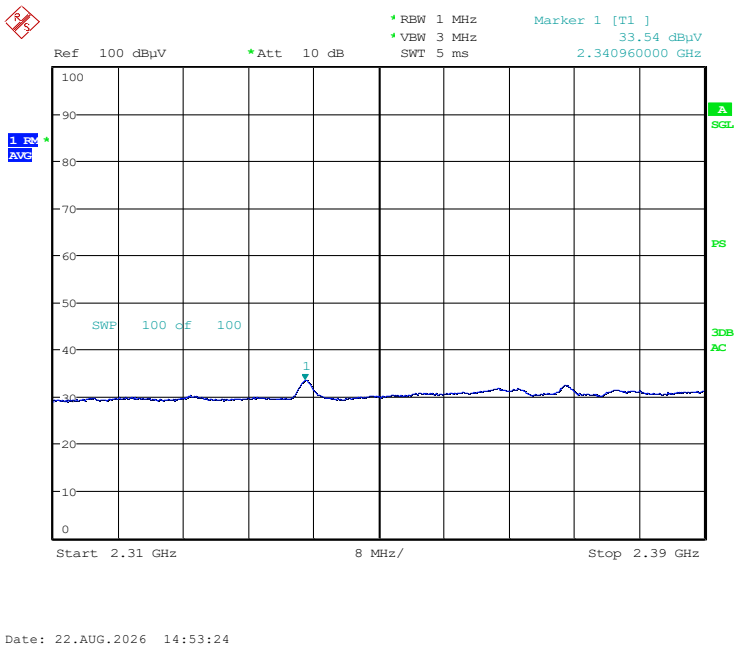


ZIGBEE _ Low frequency

H	Restricted Band – Peak

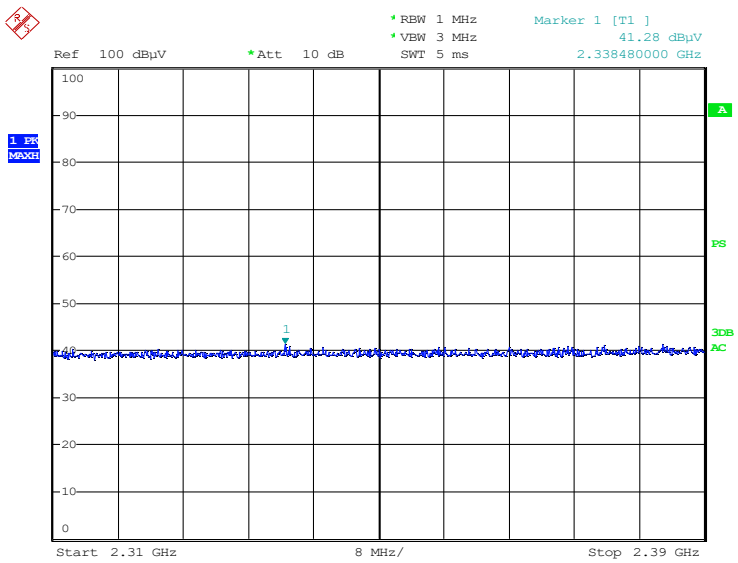


H	Restricted Band – Average

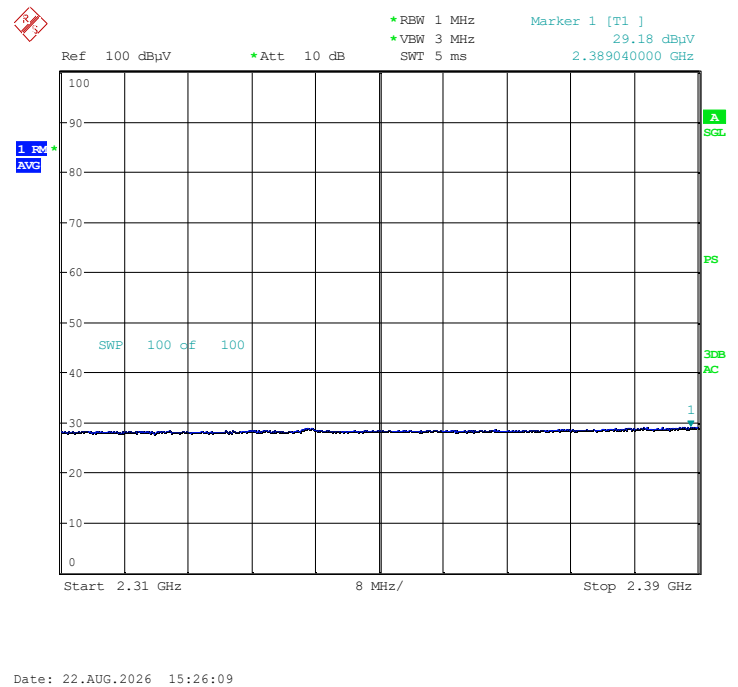


ZIGBEE _ Low frequency

V	Restricted Band – Peak

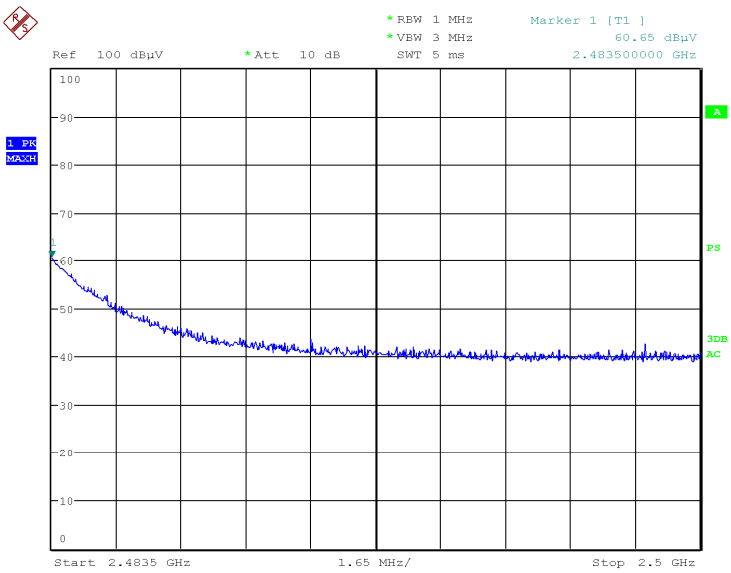


V	Restricted Band – Average

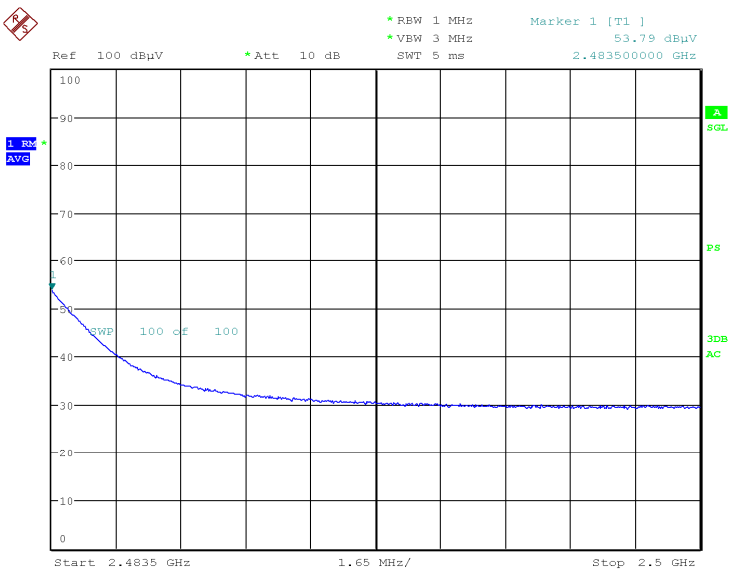


ZIGBEE _ High frequency

H	Restricted Band – Peak

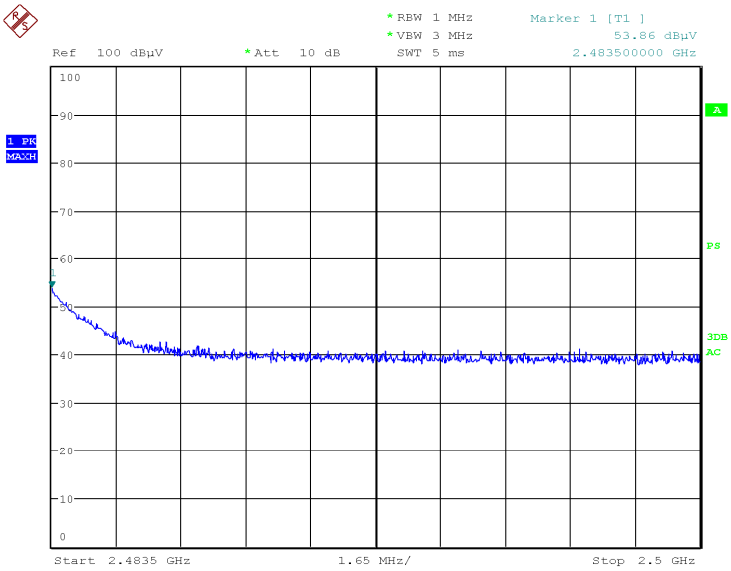


H	Restricted Band – Average



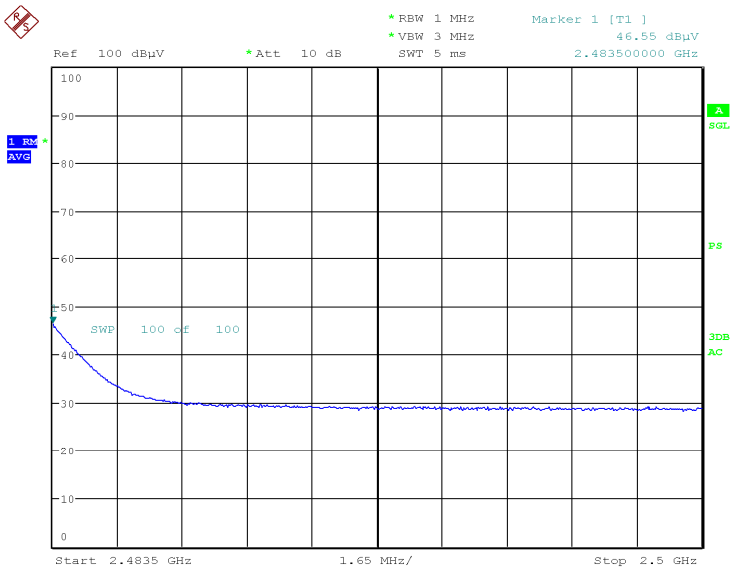
ZIGBEE _ High frequency

V	Restricted Band – Peak



Date: 28.AUG.2026 17:04:49

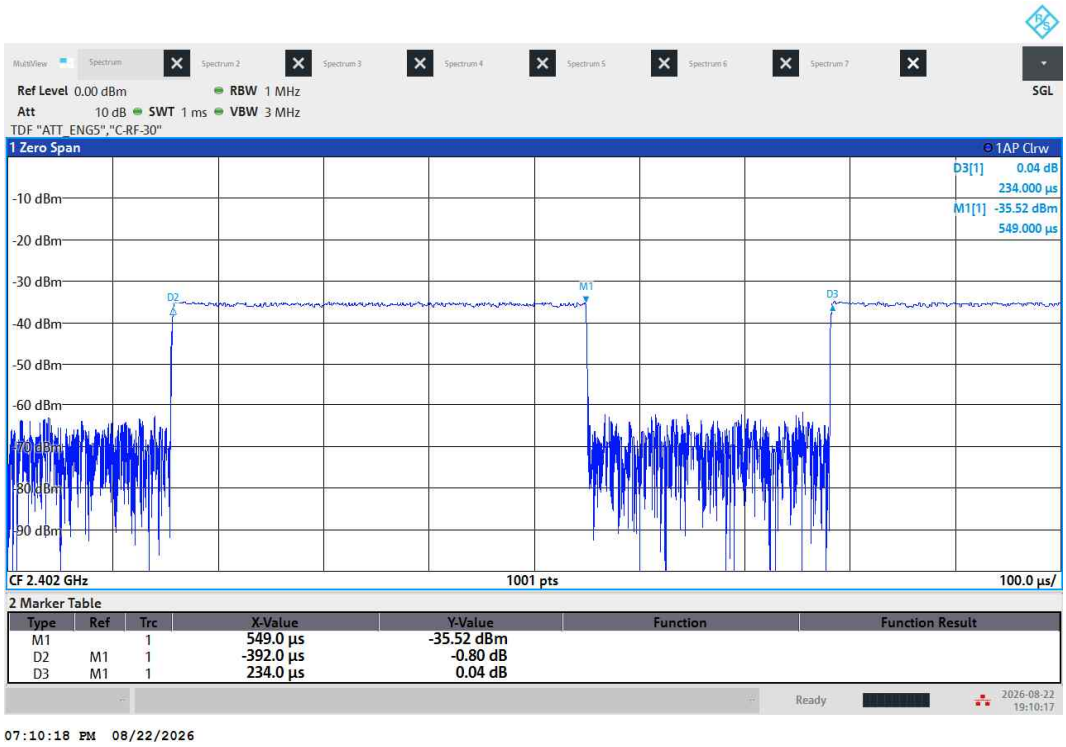
V	Restricted Band – Average



Date: 28.AUG.2026 17:04:58

6.6 Test Plot for Duty Cycle

BLE 1M



07:10:18 PM 08/22/2026

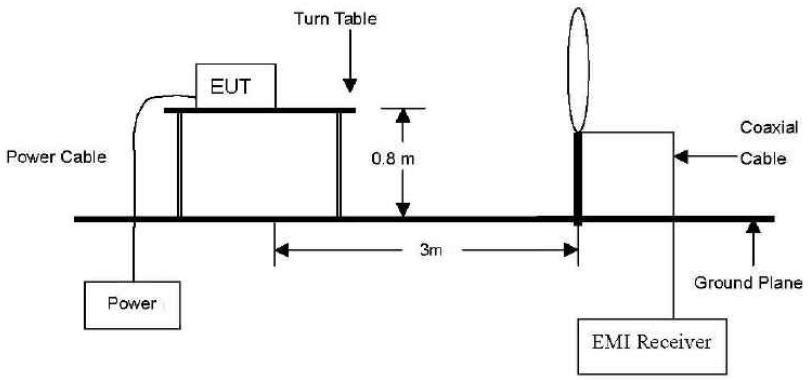
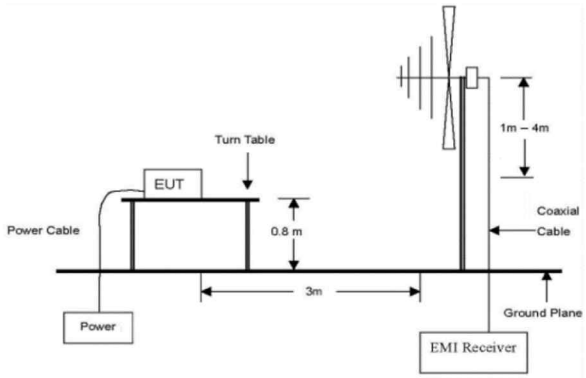
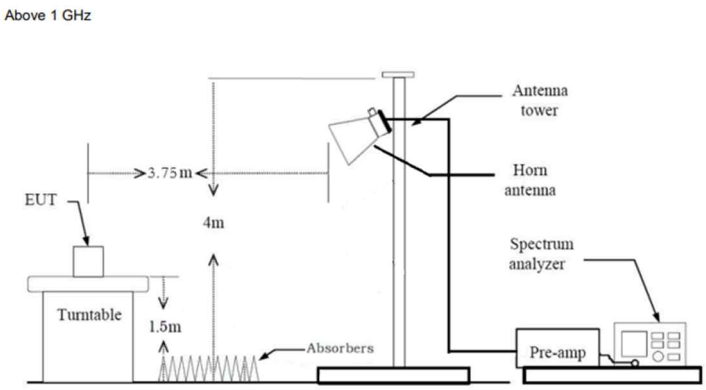
ZIGBEE

06:57:05 PM 08/22/2026

APPENDIX I

TEST SETUP

- Radiated Measurement

below 30 MHz	
below 1 GHz	
above 1 GHz	

APPENDIX II

UNCERTAINTY

Measurement Item	Expanded Uncertainty U = kUc (k=2)	
Radiated Spurious Emissions	30 MHz ~ 1 GHz	4.8 dB
	1 GHz ~ 18 GHz	5.4 dB
	18 GHz ~ 26.5 GHz	4.9 dB
	26.5 GHz ~ 40 GHz	4.8 dB

(End of Test report)