

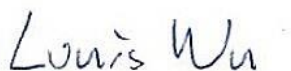


FCC RADIO TEST REPORT

FCC ID : KR5I25U
Equipment : Radio Frequency Bidirectional Key
Brand Name : Continental
Model Name : I25U
Applicant : Continental Automotive Technologies GmbH
Siemensstrasse 12, 93055 Regensburg, Germany
Manufacturer : Continental Automotive Technologies GmbH
Siemensstrasse 12, 93055 Regensburg, Germany
Factory : Continental Automotive Lithuania UAB
Sergeiciku I k. Karmelavos sen. Davalgonių g. 12
54462 Kaunas
Lithuania
Standard : FCC Part 15 Subpart C §15.231

The product was received on Jan. 02, 2025, and testing was performed from Jan. 17, 2025 to Feb. 21, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR4D1104A	01	Initial issue of report	Apr. 25, 2025
FR4D1104A	02	Revise section 3.1.1 This report is an updated version, replacing the report issued on Apr. 25, 2025.	May 02, 2025

Summary of The Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.207	AC Power Line Conducted Emissions	Not required	-
3.1	15.231(a)	Types of Momentary Signals	PASS	-
3.2	15.231(c)	20dB and 99% Occupied Bandwidth	PASS	-
3.3	15.231(b) 15.231(e)	Field Strength of Fundamental and Spurious Emissions	PASS	-
Note: Not required means after assessing, test items are not necessary to carry out.				

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Michelle Chen

1. General Information

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Radio Frequency Bidirectional Key
Brand Name	Continental
Model Name	I25U
FCC ID	KR5I25U
EUT supports Radios application	RFID/SRD/UWB
HW Version	H02
SW Version	0248
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
354199B0	Radiated Emission
454199B0	Transmission Time

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	433.47 MHz ~ 434.37 MHz
Antenna Type	Loop Antenna – PCB Printed Antenna
Antenna Gain	-16 dBi
Type of Modulation	FSK

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. 03CH07-HY
Test Engineer	Stan Hsieh and KenWu
Temperature	18.5~19.3
Relative Humidity	48.8~64.7

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH20-HY (TAF Code: 3786)
Test Engineer	John Chuang
Temperature	21
Relative Humidity	51
Remark	The Transmission Time test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.231
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations for searching the worst cases.

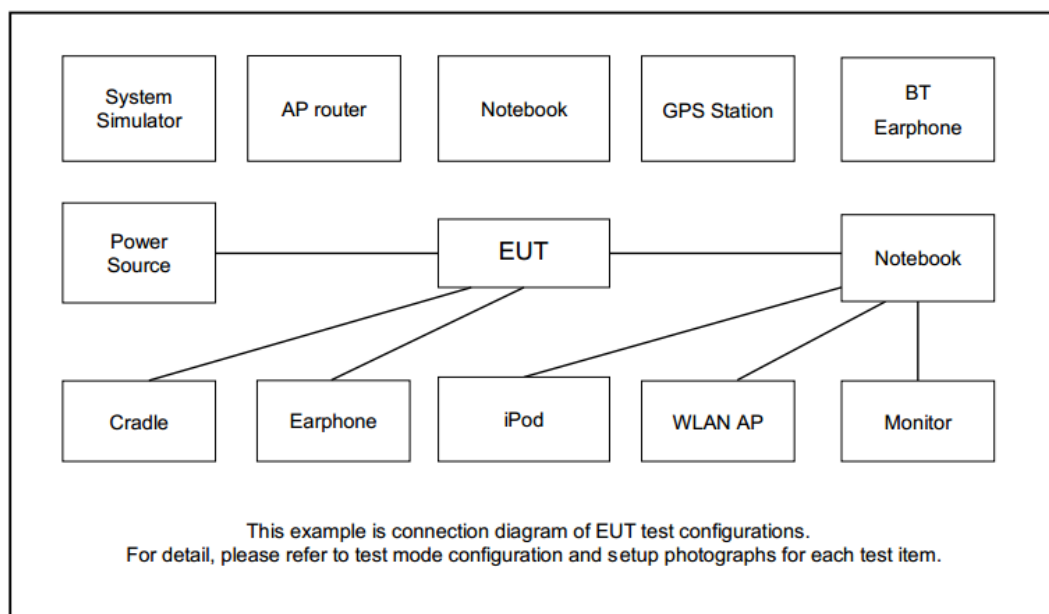
The following table is a list of the test modes shown in this test report.

The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

Test Items	
Test Result of transmission time	
20dB and 99% occupied bandwidth	
Field Strength of Fundamental and Spurious Emissions	

Test Configuration	
Mode	Frequency
1	433.47MHz
2	433.92MHz
3	434.37MHz

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Battery	Panasonic	CR2032	N/A	N/A	N/A

2.4 EUT Operation Test Setup

The RF test items, make the EUT (SW: SW0248) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3. Test Results

3.1 Types of Momentarily Operated Devices

3.1.1 Limit

☒	§15.231 (a)(1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.
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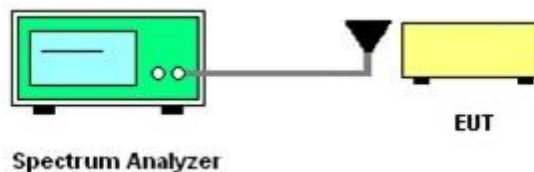
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the transmission period of EUT under specified condition.

3.1.4 Test Setup



3.1.5 Test Result of transmission time

§15.231 (a)(1)

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

Condition 1

Spectrum Analyzer 1
Sweep SA
KEYSIGHT Input RF Coupling DC Input Z 50 Ω #Atten 10 dB PNO Best Wide Gate Off Avg Type Log Power Trng Free Run 1 2 3 4 5 WWW.WWW.W N N N N N N

1 Spectrum
Scale/Div 10 dB Ref Level -10.00 dBm Mkr3 5.000 s -84.06 dBm

Center 434.000000 MHz Video BW 100 kHz Span 0 Hz Res BW 100 kHz Sweep 10.0 s (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	Δ2	t	100.0 ms (Δ)	0.5862 dB			
2	F	1	2.900 s	-59.47 dBm			
3	N	1	5.000 s	-84.06 dBm			
4							
5							
6							

Button push and release @ M1

Condition 2

Spectrum Analyzer 1
Sweep SA
KEYSIGHT Input RF Coupling DC Input Z 50 Ω #Atten 10 dB PNO Best Wide Gate Off Avg Type Log Power Trng Free Run 1 2 3 4 5 WWW.WWW.W N N N N N N

1 Spectrum
Scale/Div 10 dB Ref Level -10.00 dBm ΔMkr2 5.000 s -1.19 dBm

Center 434.000000 MHz Video BW 100 kHz Span 0 Hz Res BW 100 kHz Sweep 10.0 s (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	3.300 s	-52.34 dBm			
2	Δ3	t	5.000 s (Δ)	-1.187 dB			
3	F	1	4.300 s	-83.89 dBm			
4							
5							
6							

Button push @ M1

Button release @ M2

3.2 20dB and 99% Occupied Bandwidth Measurement

3.2.1 Limit

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

The 99% bandwidth of momentarily operated devices shall be less or equal to 0.25% of the centre frequency for devices operating between 70 MHz and 900 MHz. For devices operating above 900 MHz, the 99% bandwidth shall be less or equal to 0.5% of the centre frequency.

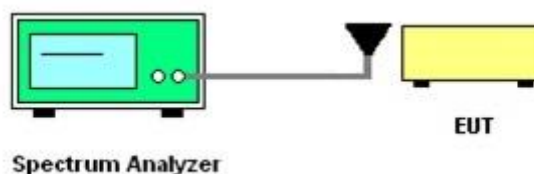
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix A.

3.3 Field Strength of Fundamental and Spurious Emissions

3.3.1 Limit

☒

15.231(b)

In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following

From 15.231(b)(3), the limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in § 15.209, whichever limit permits a higher field strength.

Rules and specifications	FCC CFR 47 Part 15 section 15.231	
Fundamental frequency (f) (MHz)	Field strength of fundamental (µV/m) at 3m	Field strength of spurious emissions (dBµV/m) at 3m
40.66 ≤ f ≤ 40.70	2250	225
70 < f ≤ 130	1250	125
130 < f ≤ 174	1250 to 3750*	125 to 375*
174 < f ≤ 260	3750	375
260 < f ≤ 470	3750 to 12500*	375 to 1250*
470 < f	12500	1250

* Linear interpolation with frequency, f, in MHz.

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure Average reading.
5. For average measurement: use duty cycle correction factor method per 15.35(c).

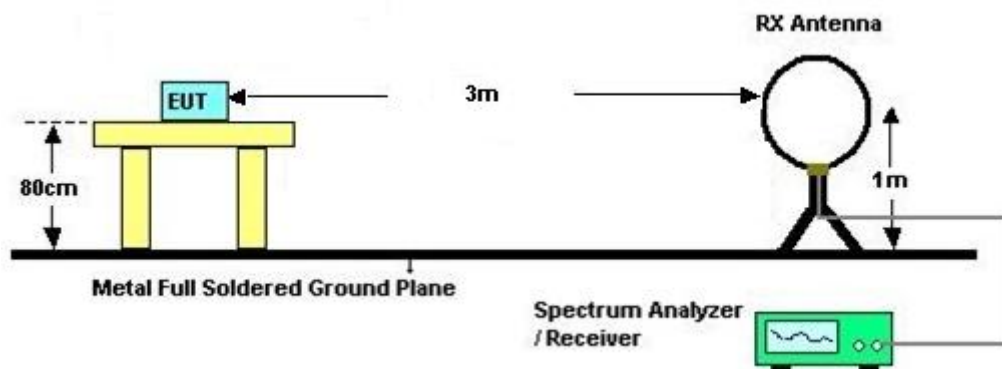
$$\text{Duty cycle} = \text{On time} / 100 \text{ milliseconds}$$

$$\text{On time} = N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$$
 Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.

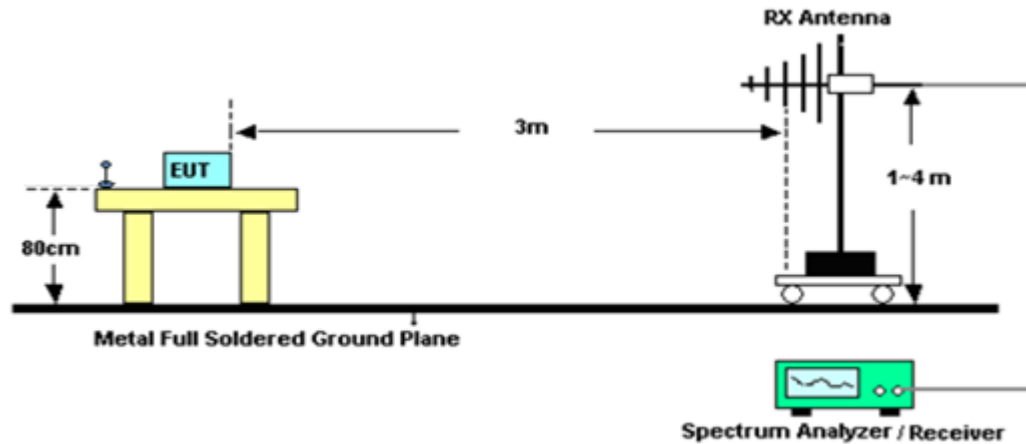
$$\text{Average Emission Level} = \text{Peak Emission Level} + 20 \cdot \log(\text{Duty cycle})$$
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.3.4 Test Setup

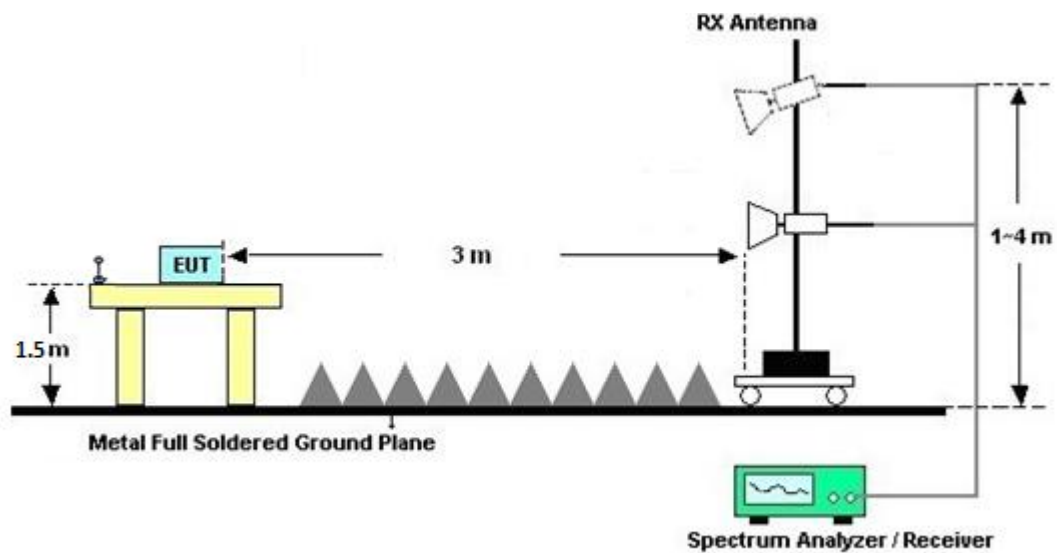
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.3.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.3.6 Duty Cycle

433.92MHz on time Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 100 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(67.2/100) = -3.45 \text{ dB}$

3.3.7 Test Result of Fundamental and Spurious Emissions

Please refer to Appendix B.



4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 09, 2024	Feb. 21, 2025	Dec. 08, 2025	Duty Cycle (03CH20-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Feb. 01, 2024	Jan. 17, 2025~ Jan. 18, 2025	Jan. 31, 2025	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 22, 2024	Jan. 17, 2025~ Jan. 18, 2025	Apr. 21, 2025	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 28, 2024	Jan. 17, 2025~ Jan. 18, 2025	Nov. 27, 2025	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Jan. 17, 2025~ Jan. 18, 2025	Feb. 22, 2025	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 19, 2024	Jan. 17, 2025~ Jan. 18, 2025	Apr. 18, 2025	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 01, 2024	Jan. 17, 2025~ Jan. 18, 2025	Sep. 30, 2025	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 26, 2024	Jan. 17, 2025~ Jan. 18, 2025	Mar. 25, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 21, 2024	Jan. 17, 2025~ Jan. 18, 2025	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 21, 2024	Jan. 17, 2025~ Jan. 18, 2025	Feb. 20, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 14, 2024	Jan. 17, 2025~ Jan. 18, 2025	Sep. 13, 2025	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Jan. 17, 2025~ Jan. 18, 2025	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Jan. 17, 2025~ Jan. 18, 2025	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Jan. 17, 2025~ Jan. 18, 2025	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jan. 17, 2025~ Jan. 18, 2025	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Jan. 17, 2025~ Jan. 18, 2025	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 01, 2024	Jan. 17, 2025~ Jan. 18, 2025	Feb. 28, 2025	Radiation (03CH07-HY)

5. Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.2 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

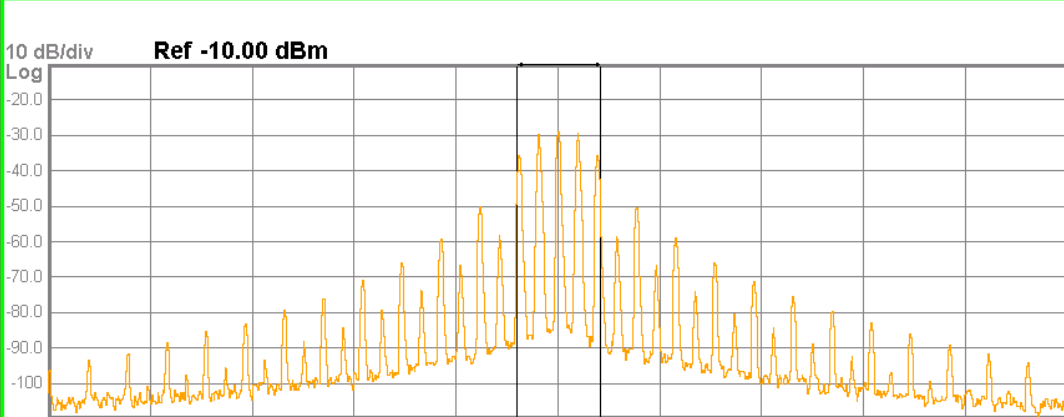
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Results of Conducted Test Items

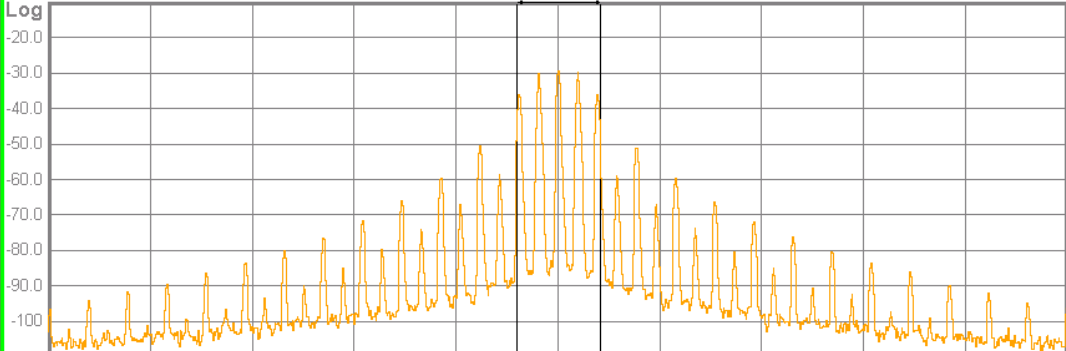
Test Mode	Mode 1	Test Frequency (MHz)	433.47MHz Tx
20dB Bandwidth (kHz)	40.96	99% Occupied BW(kHz)	40.389
RLRF50 ΩDCSENSE:INTALIGN AUTO05:26:22 AM Jan 17, 2025 Center Freq: 433.470000 MHzRadio Std: None Trig: Free RunAvg Hold: 10/10 #IFGain:Low#Atten: 10 dBRadio Device: BTS 10 dB/divRef -10.00 dBm Log  Center 433.5 MHzSpan 500 kHz #Res BW 1 kHz#VBW 3 kHzSweep 616.9 ms Occupied Bandwidth 40.389 kHz Total Power -23.0 dBm Transmit Freq Error 486 Hz OBW Power 99.00 % x dB Bandwidth 40.96 kHz x dB -20.00 dB Recall State Register 5 NFC Register 6 EWPE Register 7 DFS-cal Register 8 5G-level Register 9 24G-level Register 10 OBW More 2 of 3			
Bandwidth Limit	Shall be less than 0.25% of 433.47MHz		
	< 1083.68kHz		
Test Result	Complies		

Test Mode		Mode 2		Test Frequency (MHz)		433.92MHz Tx	
20dB Bandwidth (kHz)		40.98		99% OccupiedBW(kHz)		40.383	

☒ R/L	☐ RF	☐ 50 Ω	☐ DC	SENSE:INT		ALIGN:AUTO	07:00:57 AM Jan 17, 2025
Center Freq 433.920000 MHz				Center Freq: 433.920000 MHz		Radio Std: None	
				Trig: Free Run		Avg Hold: 10/10	
#IFGain:Low				#Atten: 10 dB		Radio Device: BTS	

10 dB/div
Log

Ref -10.00 dBm



Center 433.9 MHz
#Res BW 1 kHz

Span 500 kHz
Sweep 616.9 ms

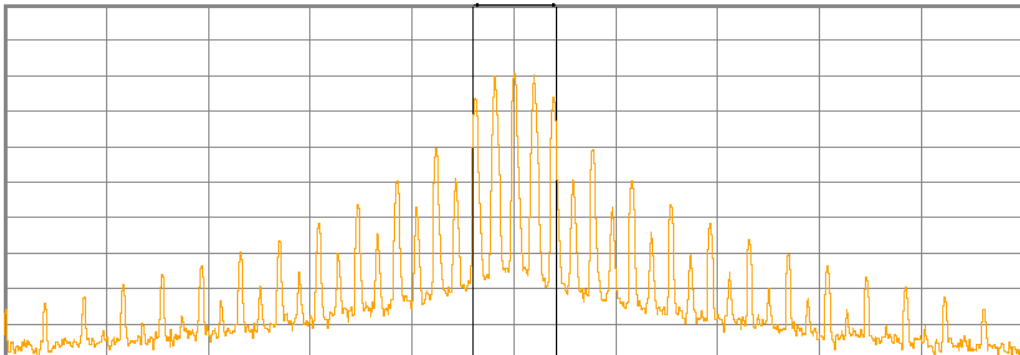
#VBW 3 kHz

Occupied Bandwidth		Total Power		-23.4 dBm			
40.383 kHz							
Transmit Freq Error		467 Hz		OBW Power		99.00 %	
x dB Bandwidth		40.98 kHz		x dB		-20.00 dB	

Frequency		433.920000 MHz	
CF Step		50.000 kHz	
Auto		Man	
Freq Offset		0 Hz	

Bandwidth Limit	Shall be less than 0.25% of 433.92MHz	
	< 1084.8kHz	
Test Result	Complies	



Test Mode	Mode 3	Test Frequency (MHz)	434.37MHz Tx
20dB Bandwidth (kHz)	40.96	99% OccupiedBW(kHz)	40.392
RL RF 50 Ω DC Center Freq 434.370000 MHz #IFGain:Low SENSE:INT Center Freq: 434.370000 MHz Trig: Free Run #Atten: 10 dB ALIGN AUTO Radio Std: None Radio Device: BTS 08:08:27 AM Jan 17, 2025			
10 dB/div Log -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 -90.0 -100 Ref -10.00 dBm  Center 434.4 MHz #Res BW 1 kHz #VBW 3 kHz Span 500 kHz Sweep 616.9 ms			Frequency Center Freq 434.370000 MHz CF Step 50.000 kHz Man Freq Offset 0 Hz
Occupied Bandwidth		Total Power	-23.5 dBm
40.392 kHz			
Transmit Freq Error	489 Hz	OBW Power	99.00 %
x dB Bandwidth	40.96 kHz	x dB	-20.00 dB
Bandwidth Limit	Shall be less than 0.25% of 434.37MHz		
	< 1085.93kHz		
Test Result	Complies		

Appendix B. Test Results of Radiated Test Items

B1. Test Result of Field Strength of Fundamental Emissions

Test Mode		Mode 1				Test Frequency (MHz)		433.47MHz Tx																																																															
Polarization: H						Polarization: V																																																																	
Site : 03CH07-HY Condition : 15.231_FUND(PEAK) 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 4D1104 Mode : 1 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>433.47</td><td>74.22</td><td>-26.61</td><td>100.83</td><td>77.99</td><td>22.26</td><td>3.74</td><td>29.77</td><td>358 0 Peak</td></tr></tbody></table>						Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	433.47	74.22	-26.61	100.83	77.99	22.26	3.74	29.77	358 0 Peak	Site : 03CH07-HY Condition : 15.231_FUND(PEAK) 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 4D1104 Mode : 1 <table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>433.47</td><td>80.04</td><td>-20.79</td><td>100.83</td><td>83.81</td><td>22.26</td><td>3.74</td><td>29.77</td><td>120 276 Peak</td></tr></tbody></table>						Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	433.47	80.04	-20.79	100.83	83.81	22.26	3.74	29.77	120 276 Peak
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433.47	74.22	-26.61	100.83	77.99	22.26	3.74	29.77	358	0	P	H																																																												
433.47	70.77	-10.06	80.83	-	-	-	-	-	-	A	H																																																												
433.47	80.04	-20.79	100.83	83.81	22.26	3.74	29.77	120	276	P	V																																																												
433.47	76.59	-4.24	80.83	-	-	-	-	-	-	A	V																																																												

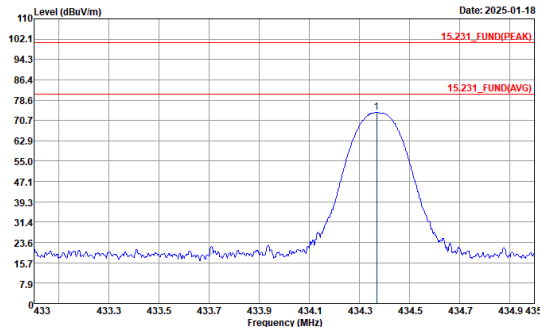
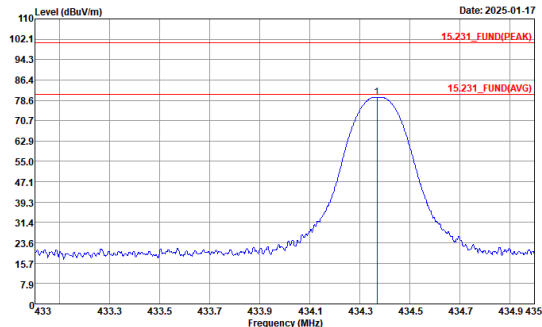
Note:

- Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB)
- Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB)
- Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m)
- Average result=Peak result +Duty factor

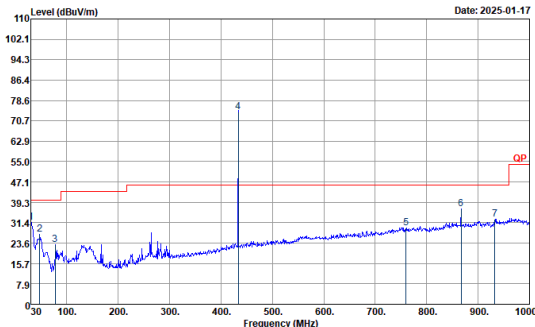
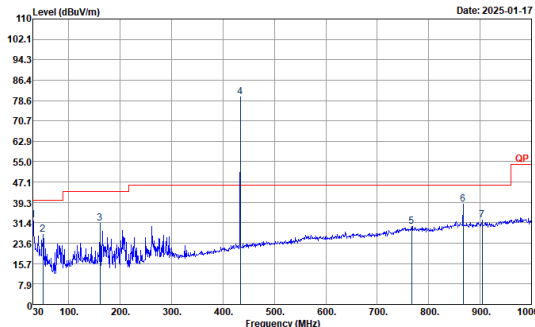


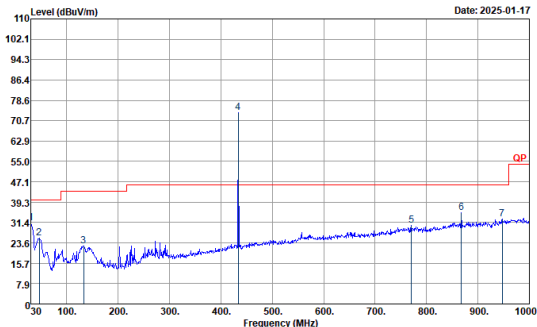
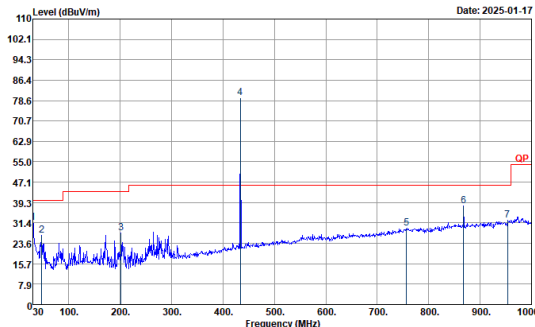
Test Mode		Mode 2				Test Frequency (MHz)		433.92MHz Tx																																																															
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433.92	73.85	-26.98	100.83	77.61	22.27	3.74	29.77	314	0	P	H																																																												
433.92	70.40	-10.43	80.83	-	-	-	-	-	-	A	H																																																												
433.92	79.81	-21.02	100.83	83.57	22.27	3.74	29.77	124	264	P	V																																																												
433.92	76.36	-4.47	80.83	-	-	-	-	-	-	A	V																																																												
Note: • Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB) • Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) • Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m) • Average result=Peak result +Duty factor																																																																							



Test Mode		Mode 3				Test Frequency (MHz)		434.37MHz Tx																																																																	
Polarization: H						Polarization: V																																																																			
 Site : 03CH07-HY Condition : 15.231_FUND(PEAK) 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 4D1104 Mode : 3 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>434.37</td><td>73.70</td><td>-27.13</td><td>100.83</td><td>77.44</td><td>22.28</td><td>3.75</td><td>29.77</td><td>317</td><td>0 Peak</td></tr></table>						Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	434.37	73.70	-27.13	100.83	77.44	22.28	3.75	29.77	317	0 Peak	 Site : 03CH07-HY Condition : 15.231_FUND(PEAK) 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 4D1104 Mode : 3 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>434.37</td><td>79.75</td><td>-21.08</td><td>100.83</td><td>83.49</td><td>22.28</td><td>3.75</td><td>29.77</td><td>118</td><td>268 Peak</td></tr></table>						Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	434.37	79.75	-21.08	100.83	83.49	22.28	3.75	29.77	118	268 Peak
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Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)																																																														
434.37	73.7	-27.13	100.83	77.44	22.28	3.75	29.77	317	0	P	H																																																														
434.37	70.25	-10.58	80.83	-	-	-	-	-	-	A	H																																																														
434.37	79.75	-21.08	100.83	83.49	22.28	3.75	29.77	118	268	P	V																																																														
434.37	76.30	-4.53	80.83	-	-	-	-	-	-	A	V																																																														
Note: - Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB) - Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) - Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m) - Average result=Peak result +Duty factor																																																																									

B2. Test Result of Radiated Spurious Emissions (30MHz~1GHz)

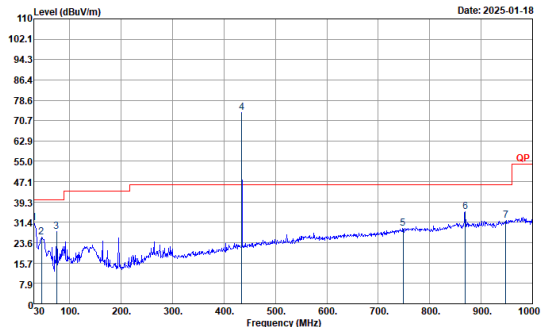
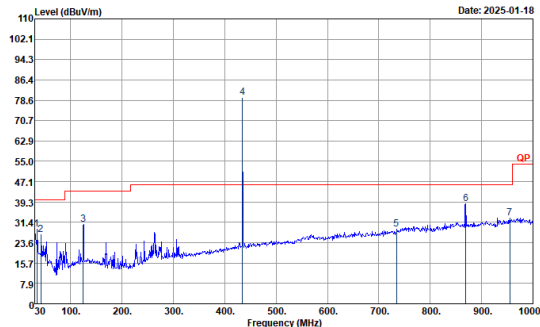
Test Mode		Mode 1				Test Frequency (MHz)		433.47MHz Tx				
Polarization: H						Polarization: V						
 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 4D1104 Mode : 1						 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 4D1104 Mode : 1						
	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	30.27	31.67	-8.33	40	36.37	24.21	1.07	29.98	-	-	P	H
	47.55	27.06	-12.94	40	40.07	15.6	1.34	29.95	-	-	P	H
	77.79	23.05	-16.95	40	37.97	13.33	1.68	29.93	-	-	P	H
*	433.47	74.22	-	-	77.99	22.26	3.74	29.77	-	-	P	H
	759.9	29.54	-16.46	46	26.81	27.24	4.9	29.41	-	-	P	H
	867	36.76	-9.24	46	32.4	28.08	5.24	28.96	-	-	P	H
	932.8	32.76	-13.24	46	27.41	28.68	5.35	28.68	-	-	P	H
	30	32.54	-7.46	40	37.16	24.29	1.07	29.98	-	-	P	V
	49.71	26.95	-13.05	40	40.94	14.58	1.37	29.94	-	-	P	V
	160.68	31.38	-12.12	43.5	42.59	16.3	2.37	29.88	-	-	P	V
*	433.47	80.04	-	-	83.81	22.26	3.74	29.77	-	-	P	V
	766.9	29.91	-16.09	46	27.27	27.11	4.91	29.38	-	-	P	V
	867	38.54	-7.46	46	34.18	28.08	5.24	28.96	-	-	P	V
	904.1	32.35	-13.65	46	27.46	28.39	5.28	28.78	-	-	P	V
Note: - Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB) 434.37MHz is fundamental signal which can be ignored - Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB) - Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) - Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m)												

Test Mode		Mode 2				Test Frequency (MHz)		433.92MHz Tx			
Polarization: H						Polarization: V					
 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 4D1104 Mode : 2						 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 4D1104 Mode : 2					
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
30	31.24	-8.76	40	35.86	24.29	1.07	29.98	-	-	P	H
46.74	25.52	-14.48	40	38.12	16.04	1.32	29.96	-	-	P	H
132.6	22.37	-21.13	43.5	32.68	17.43	2.15	29.89	-	-	P	H
* 433.92	73.85	-	-	77.61	22.27	3.74	29.77	-	-	P	H
770.4	30.19	-15.81	46	27.27	27.37	4.92	29.37	-	-	P	H
867.7	35.24	-10.76	46	30.86	28.09	5.24	28.95	-	-	P	H
947.5	32.94	-13.06	46	26.85	29.34	5.38	28.63	-	-	P	H
30	31.59	-8.41	40	36.21	24.29	1.07	29.98	-	-	P	V
47.28	26.57	-13.43	40	39.46	15.74	1.33	29.96	-	-	P	V
201.72	27.55	-15.95	43.5	39.9	14.86	2.62	29.83	-	-	P	V
* 433.92	79.81	-	-	83.57	22.27	3.74	29.77	-	-	P	V
757.1	29.31	-16.69	46	26.47	27.37	4.89	29.42	-	-	P	V
867.7	38.08	-7.92	46	33.7	28.09	5.24	28.95	-	-	P	V
953.1	32.56	-13.44	46	26.53	29.22	5.4	28.59	-	-	P	V

Note:

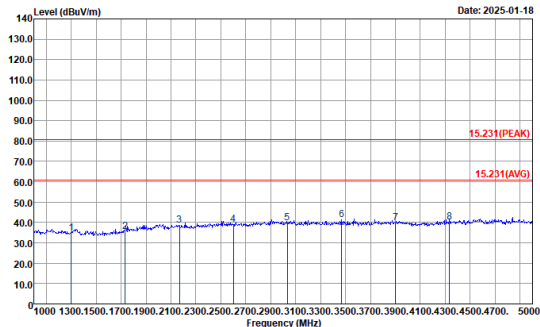
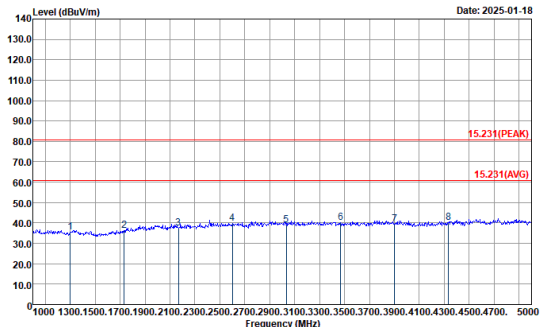
- Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)
- 433.92MHz is fundamental signal which can be ignored
- Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB)
- Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB)
- Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m)



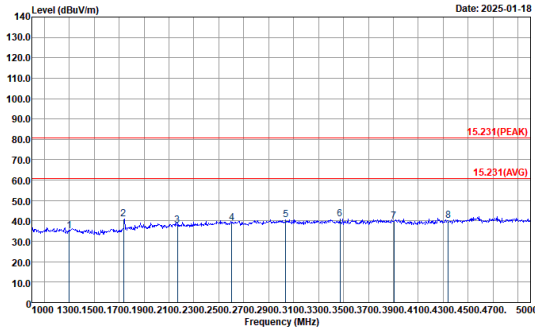
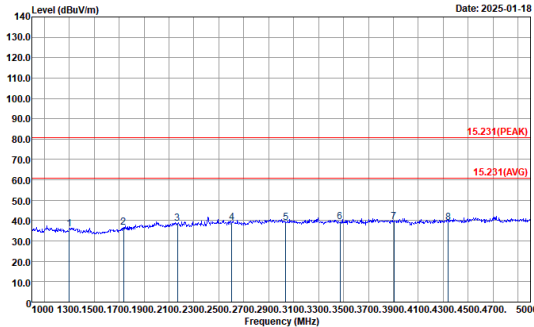
Test Mode		Mode 3				Test Frequency (MHz)		434.37MHz Tx			
Polarization: H						Polarization: V					
 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 4D1104 Mode : 3						 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 4D1104 Mode : 3					
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
30	31.4	-8.6	40	36.02	24.29	1.07	29.98	-	-	P	H
45.39	25.84	-14.16	40	37.68	16.82	1.31	29.97	-	-	P	H
74.28	27.9	-12.1	40	43.14	13.06	1.63	29.93	-	-	P	H
* 434.37	73.7	-	-	77.44	22.28	3.75	29.77	-	-	P	H
748	29.14	-16.86	46	26.67	27.06	4.86	29.45	-	-	P	H
869.1	35.62	-10.38	46	31.2	28.11	5.25	28.94	-	-	P	H
948.2	32.31	-13.69	46	26.21	29.34	5.39	28.63	-	-	P	H
34.05	28.74	-11.26	40	34.89	22.7	1.13	29.98	-	-	P	V
41.88	26.72	-13.28	40	36.7	18.75	1.25	29.98	-	-	P	V
124.23	30.6	-12.9	43.5	41	17.42	2.08	29.9	-	-	P	V
* 434.37	79.75	-	-	83.49	22.28	3.75	29.77	-	-	P	V
734.7	28.74	-17.26	46	26.71	26.69	4.81	29.47	-	-	P	V
869.1	38.48	-7.52	46	34.06	28.11	5.25	28.94	-	-	P	V
955.2	33.09	-12.91	46	26.72	29.53	5.41	28.57	-	-	P	V
Note: - Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB) 434.37MHz is fundamental signal which can be ignored - Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB) - Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) - Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m)											



B3. Test Result of Field Radiated Spurious Emissions (1GHz~5GHz)

Test Mode	Mode 1					Test Frequency (MHz)	433.47MHz Tx						
Polarization: H						Polarization: V							
 Site : 03CH07-HY Condition : 15.231(PK) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 4D1104 Mode : 1						 Site : 03CH07-HY Condition : 15.231(PK) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 4D1104 Mode : 1							
	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
	1300.41	34.85	-45.98	80.83	59.08	29.2	6.32	59.75	-	-	P	H	
	1733.88	35.52	-45.31	80.83	58.11	29.6	7.23	59.42	-	-	P	H	
	2167.35	38.46	-42.37	80.83	57.79	31.87	8.07	59.27	-	-	P	H	
	2600.82	39.14	-41.69	80.83	56.76	32.69	8.81	59.12	-	-	P	H	
	3034.29	39.78	-41.05	80.83	56.42	32.86	9.56	59.06	-	-	P	H	
	3467.76	41.22	-39.61	80.83	57.61	32.8	10.21	59.4	-	-	P	H	
	3901.23	39.75	-41.08	80.83	55.48	33.4	10.7	59.83	-	-	P	H	
	4334.7	39.99	-40.84	80.83	54.61	33.9	11.37	59.89	-	-	P	H	
	1300.41	35.45	-45.38	80.83	59.68	29.2	6.32	59.75	-	-	P	V	
	1733.88	36.27	-44.56	80.83	58.86	29.6	7.23	59.42	-	-	P	V	
	2167.35	37.44	-43.39	80.83	56.77	31.87	8.07	59.27	-	-	P	V	
	2600.82	39.73	-41.1	80.83	57.35	32.69	8.81	59.12	-	-	P	V	
	3034.29	38.91	-41.92	80.83	55.55	32.86	9.56	59.06	-	-	P	V	
	3467.76	40.3	-40.53	80.83	56.69	32.8	10.21	59.4	-	-	P	V	
	3901.23	39.29	-41.54	80.83	55.02	33.4	10.7	59.83	-	-	P	V	
	4334.7	40.16	-40.67	80.83	54.78	33.9	11.37	59.89	-	-	P	V	
Note: - Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB) - Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB) - Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) - Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m)													

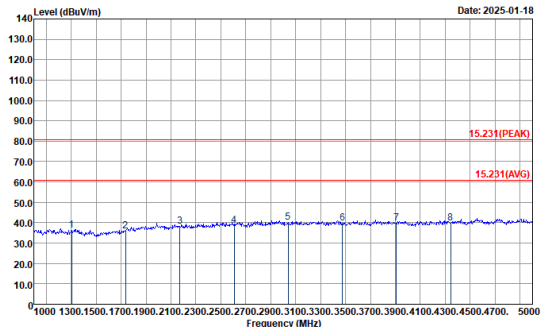
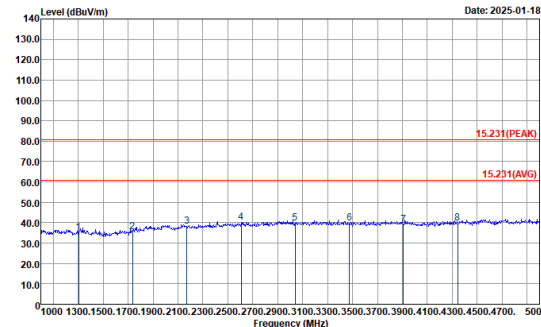


Test Mode		Mode 2					Test Frequency (MHz)		433.92MHz Tx				
Polarization: H							Polarization: V						
 Site : 03CH07-HY Condition : 15.231(PEAK) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 4D1104 Mode : 2							 Site : 03CH07-HY Condition : 15.231(PEAK) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 4D1104 Mode : 2						
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)		
1300.41	34.85	-45.98	80.83	59.08	29.2	6.32	59.75	-	-	P	H		
1733.88	35.52	-45.31	80.83	58.11	29.6	7.23	59.42	-	-	P	H		
2167.35	38.46	-42.37	80.83	57.79	31.87	8.07	59.27	-	-	P	H		
2600.82	39.14	-41.69	80.83	56.76	32.69	8.81	59.12	-	-	P	H		
3034.29	39.78	-41.05	80.83	56.42	32.86	9.56	59.06	-	-	P	H		
3467.76	41.22	-39.61	80.83	57.61	32.8	10.21	59.4	-	-	P	H		
3901.23	39.75	-41.08	80.83	55.48	33.4	10.7	59.83	-	-	P	H		
4334.7	39.99	-40.84	80.83	54.61	33.9	11.37	59.89	-	-	P	H		
1300.41	35.45	-45.38	80.83	59.68	29.2	6.32	59.75	-	-	P	V		
1733.88	36.27	-44.56	80.83	58.86	29.6	7.23	59.42	-	-	P	V		
2167.35	37.44	-43.39	80.83	56.77	31.87	8.07	59.27	-	-	P	V		
2600.82	39.73	-41.1	80.83	57.35	32.69	8.81	59.12	-	-	P	V		
3034.29	38.91	-41.92	80.83	55.55	32.86	9.56	59.06	-	-	P	V		
3467.76	40.3	-40.53	80.83	56.69	32.8	10.21	59.4	-	-	P	V		
3901.23	39.29	-41.54	80.83	55.02	33.4	10.7	59.83	-	-	P	V		
4334.7	40.16	-40.67	80.83	54.78	33.9	11.37	59.89	-	-	P	V		

Note:

- Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)
- Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB)
- Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB)
- Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m)



Test Mode		Mode 3				Test Frequency (MHz)		434.37MHz Tx			
Polarization: H						Polarization: V					
 Site : 03CH07-HY Condition : 15.231(PEAK) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 4D1104 Mode : 3						 Site : 03CH07-HY Condition : 15.231(PEAK) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 4D1104 Mode : 3					
Frequency (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dBuV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
1303.11	36.16	-44.67	80.83	60.35	29.23	6.32	59.74	-	-	P	H
1737.48	36.07	-44.76	80.83	58.65	29.6	7.24	59.42	-	-	P	H
2171.85	38.33	-42.5	80.83	57.61	31.9	8.08	59.26	-	-	P	H
2606.22	38.75	-42.08	80.83	56.41	32.64	8.82	59.12	-	-	P	H
3040.59	40.02	-40.81	80.83	56.67	32.84	9.57	59.06	-	-	P	H
3474.96	39.87	-40.96	80.83	56.27	32.8	10.21	59.41	-	-	P	H
3909.33	39.75	-41.08	80.83	55.46	33.42	10.71	59.84	-	-	P	H
4343.7	39.84	-40.99	80.83	54.44	33.9	11.39	59.89	-	-	P	H
1303.11	35.24	-45.59	80.83	59.43	29.23	6.32	59.74	-	-	P	V
1737.48	35.41	-45.42	80.83	57.99	29.6	7.24	59.42	-	-	P	V
2171.85	38.18	-42.65	80.83	57.46	31.9	8.08	59.26	-	-	P	V
2606.22	40.2	-40.63	80.83	57.86	32.64	8.82	59.12	-	-	P	V
3040.59	39.71	-41.12	80.83	56.36	32.84	9.57	59.06	-	-	P	V
3474.96	39.95	-40.88	80.83	56.35	32.8	10.21	59.41	-	-	P	V
3909.33	39.05	-41.78	80.83	54.76	33.42	10.71	59.84	-	-	P	V
4343.7	39.69	-41.14	80.83	54.29	33.9	11.39	59.89	-	-	P	V
Note: - Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB) - Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB) - Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) - Over Limit (dB) = Level (dBuV/m) – Limit Line (dBuV/m)											