Prüfbericht-Nr.: *Test report no.:*	CN229O0X (P15C-SRD) 001	**Auftrags-Nr.:** *Order no.*:	238542471	Seite 1 von 23 *Page 1 of 23*
Kunden-Referenz-Nr.: *Client reference no.:*	N/A	**Auftragsdatum:** *Order date:*	2022-04-25	
Auftraggeber: *Client:*	CUB ELECPARTS INC. No. 6, Lane 546, Sec. 6, Changlu Road, Fuhsin Township, Changhua County, Taiwan			
Prüfgegenstand: *Test item:*	Uni Sensor EVO			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	TPM103,TPM103xxx、B121-040、B121-040XXX、B121-042、B121-042XXX、B121-XXXXXX (X= 0-9, A-Z, a-z)			
Auftrags-Inhalt: *Order content*:	FCC Part 15C Test report			
Prüfgrundlage: *Test specification:*	FCC CFR47 Part 15: Subpart C Section 15.231			

Wareneingangsdatum: *Date of sample receipt:*	2022-04-28
Prüfmuster-Nr.: *Test sample no:*	A003252050-008~011 A003252050-003~005&007
Prüfzeitraum: *Testing period:*	2022-05-03 - 2022-09-08
Ort der Prüfung: *Place of testing:*	EMC/RF Taipei Testing Site
Prüflaboratorium: *Testing laboratory:*	Taipei Testing Laboratories
Prüfergebnis*: *Test result*:*	Pass

überprüft von: *compiled by:*		**genehmigt von:** authorized by:	
Datum: *Date:* 2022-09-12		**Ausstellungsdatum:** *Issue date:* 2022-09-12	
Stellung / *Position:*	Ryan Chen Senior Project Manager	**Stellung** / *Position:*	Brenda Chen Senior Project Manager

Sonstiges / *Other:*

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *Test item complete and undamaged*

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
** Legend:*	*1 = very good*	*2 = good*	*3 = satisfactory*	*4 = sufficient*	*5 = poor*
	P(ass) = passed a.m. test specification(s)		*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.203	Antenna Requirement	Pass
5.1.2	15.231(c)	20 dB Bandwidth and Occupied Bandwidth	Pass
5.1.3	15.231(a)	Pulse Width / TX Gap	Pass
5.1.4	15.231(b)	Field Strength of Fundamental Emissions	Pass
5.1.5	15.231(b) & 15.205 & 15.209	Radiated Spurious Emissions	Pass
-	15.207	Mains Conducted Emission	N/A

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

Contents

HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN229O0X (P15C-SRD) 001	Original Release	2022-09-12

1. General Remarks

1.1 Complementary Materials

The following attachments are integral parts of this test report:

Appendix A - Test Result of Radiated Emissions
Appendix SP - Photographs of Test Setup
Appendix EP - Photographs of EUT

Test Specifications
The following standards were applied.

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.231 ANSI C63.10:2013

1.2 Decision Rule of Conformity

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

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

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

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 226631
ISED Registration No.: 25563

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Emission Measurement Uncertainty

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

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Uni Sensor EVO. It contains 315 MHz & 433.92 MHz compatible module enabling the user to communicate data through a wireless interface.
For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Uni Sensor EVO
Type Identification	TPM103,TPM103xxx、B121-040、B121-040XXX、B121-042、B121-042XXX、B121-XXXXXX (X= 0-9, A-Z, a-z)
FCC ID	ZPNTPM103

Technical Specification of EUT

Item	EUT information
Operating Frequency	315 MHz & 433.92 MHz
Operation Voltage	3 Vdc
Modulation	FSK & ASK
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.3

Note:

1. All models are listed as below.

Model Type	Type Identification	Difference
Main	TPM103	All models are electrically identical, different model names are for marketing purpose and appearance.
Series	TPM103xxx	
	B121-040	
	B121-040XXX	
	B121-042	
	B121-042XXX	
	B121-XXXXXX	

3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

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

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum emission level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Setup for testing: Test samples are provided firmware for each channel. It was used to enable the operation modes listed as below.

The samples were used as follows:
A003252050-008~011
A003252050-003~005&007

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

EUT Configure Mode	Applicable To					Description
	20 dB Bandwidth	Pulse Width / TX Gap	Field Strength of Fundamental Emissions	Radiated Spurious Emissions	Mains Conducted Emission	
-	√	√	√	√	-	-

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

20 dB Bandwidth

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

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	315	315
-	433.92	433.92

Pulse Width / TX Gap

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

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	315	315
-	433.92	433.92

Field Strength of Fundamental

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

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	315	315
-	433.92	433.92

Radiated Spurious Emissions

☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)
-	315	315
-	433.92	433.92

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
20 dB Bandwidth	18-23 °C	59-68 %	Nick Hsu
Pulse Width / TX Gap	18-23 °C	59-68 %	Nick Hsu
Field Strength of Fundamental	23.7-24.6 °C	52-55 %	Ray Huang
Radiated Spurious Emissions	23.7-24.6 °C	52-55 %	Ray Huang

4.3 Special Accessories and Auxiliary Equipment

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

Accessory of EUT

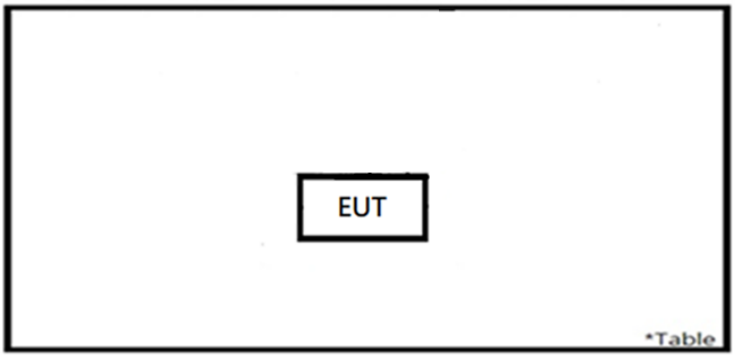
None

Support Unit

None

4.4 Test Setup Diagram

<Radiated Spurious Emissions mode>



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 0 dBi. The antenna is monopole antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.

Refer to EUT photo for details.

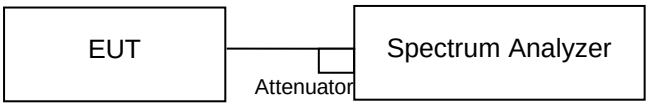
5.1.2 20 dB Bandwidth and Occupied Bandwidth

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.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV40	101512	2022/2/24	2023/2/23	2022/5/3	2022/7/12

Test Procedures

a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
c. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
d. Repeat above procedures until all frequencies measured were complete.
e. For occupied bandwidth, the transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

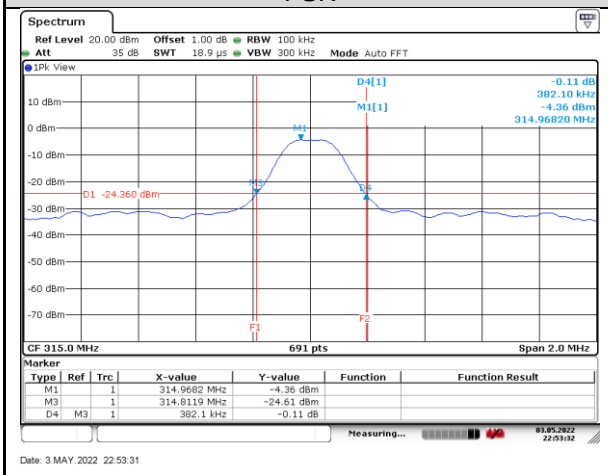
Test Results

Channel Frequency (MHz)	Modulation	20 dB Bandwidth (kHz)	Limit (kHz)
315	FSK	382.1	787.5
	ASK	286.5	
433.92	FSK	399.4	1084.8
	ASK	280.8	

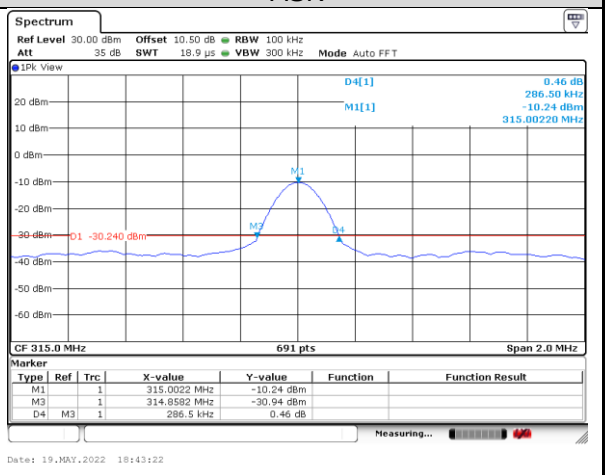
Plot of 20 dB Bandwidth

315 MHz

FSK

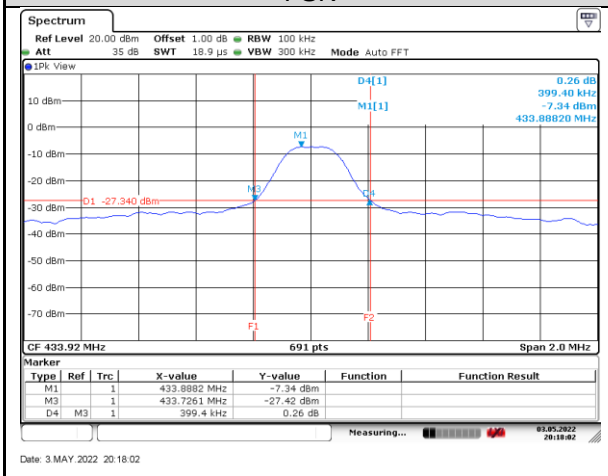


ASK



433.92 MHz

FSK



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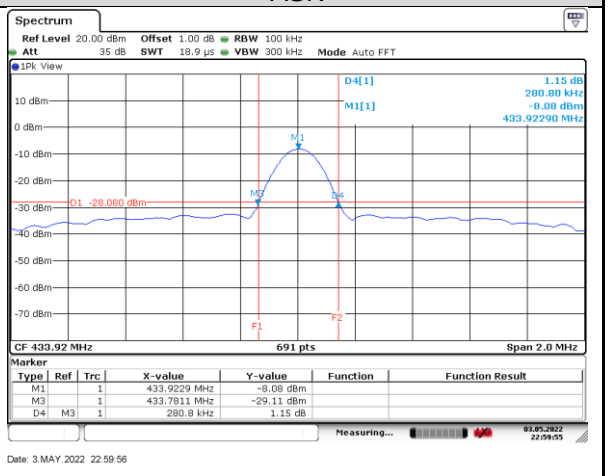
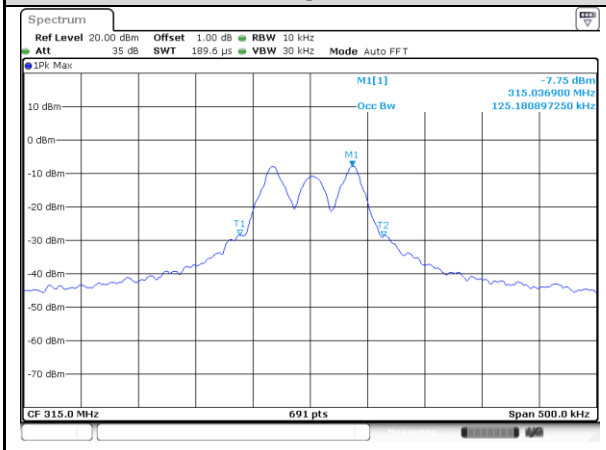


Channel Frequency (MHz)	Modulation	Occupied Bandwidth (kHz)
315	FSK	125.18
	ASK	94.79
433.92	FSK	141.10
	ASK	138.21

Plot of Occupied Bandwidth

315 MHz

FSK



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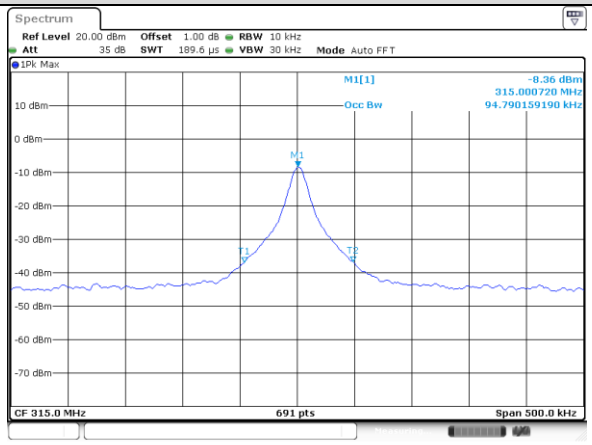
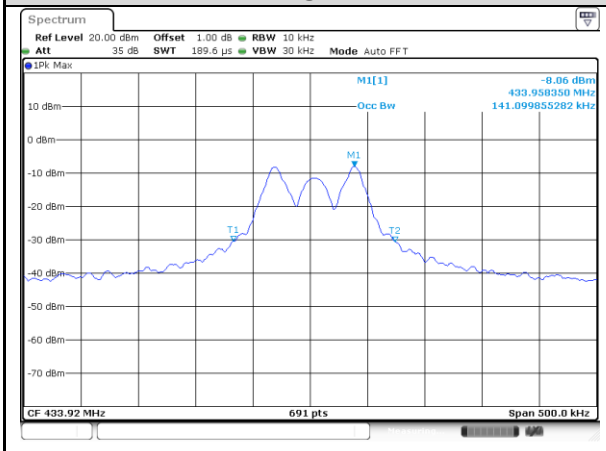


433.92 MHz

FSK



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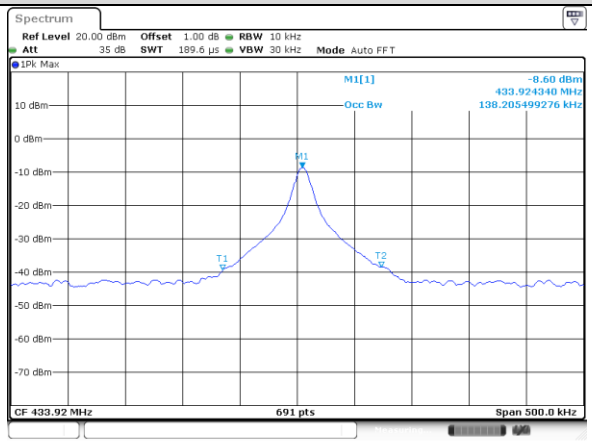


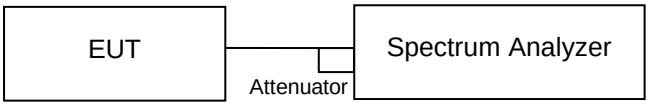
5.1.3 Pulse Width/TX Gap

Limit

The device has automatic control mechanism such that each transmission time (Pulse width) is shorter than 1 second, and stop duration of a transmission period (TX gap) is longer than 10 seconds and is not shorter than transmission time multiplied by 30.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV40	101512	2022/2/24	2023/2/23	2022/5/3	2022/7/12

Test Procedures

a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
c. Measure the transmission time (Pulse width) and stop duration of a transmission period (TX gap).
d. Repeat above procedures until all frequencies measured were complete.

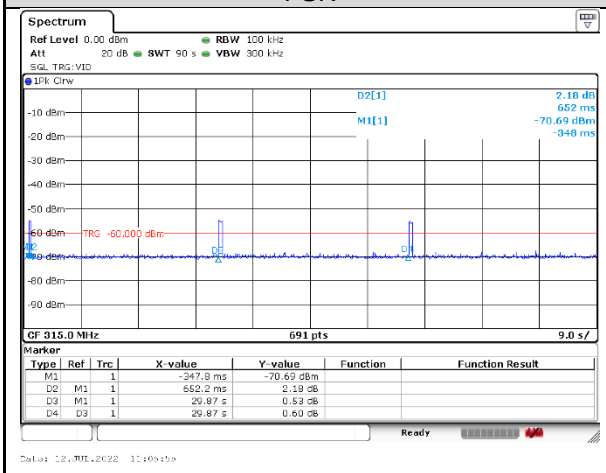
Test Results

Channel Frequency (MHz)	Modulation	Pulse Width (ms)	Limit (ms)	Result
315	FSK	652.2	< 1000	Pass
	ASK	782.6		
433.92	FSK	782.6	< 1000	Pass
	ASK	652.2		

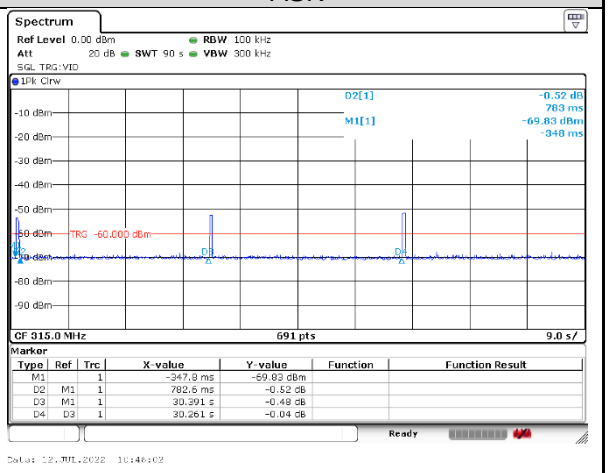
Plot of Pulse Width/TX Gap

315 MHz

FSK

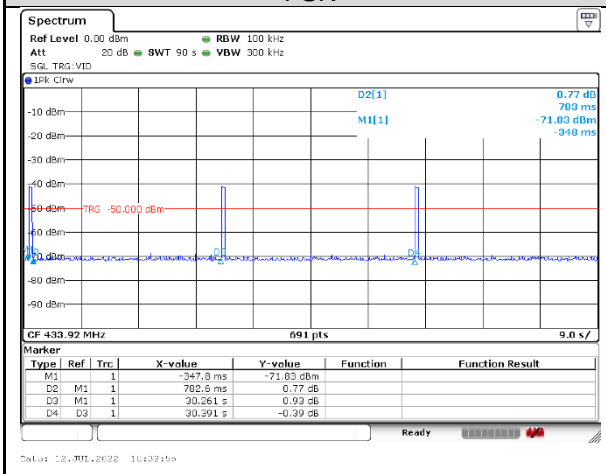


ASK

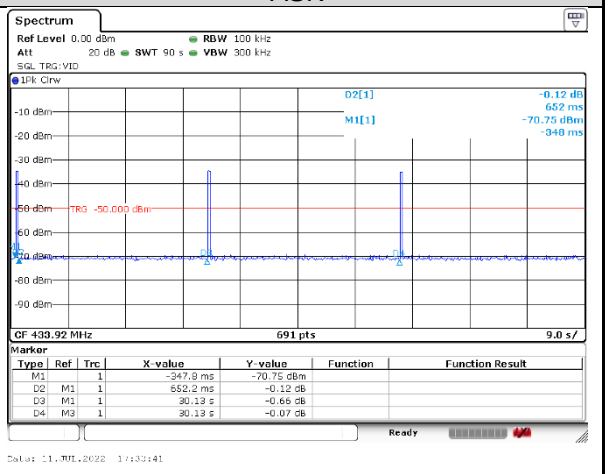


433.92 MHz

FSK



ASK

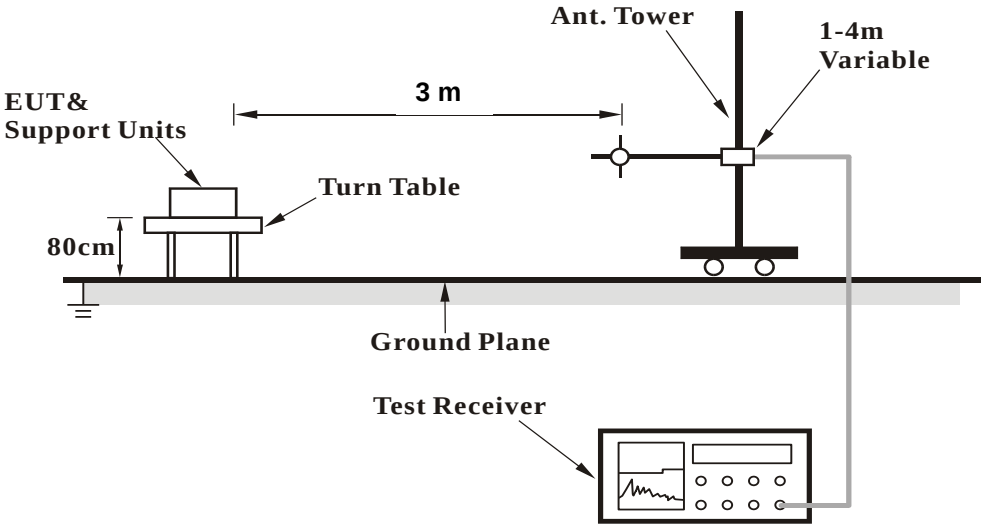


5.1.4 Field Strength of Fundamental Emissions

Limit Refer to §15.231(b) for reference

Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup



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

Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101509	2022/4/22	2023/4/21
Horn Antenna	ETS-Lindgren	3117	00218929	2021/11/25	2022/11/24
HF-AMP + AC source	EMCI	EMC051845SE	980635	2022/1/20	2023/1/19
HF-AMP + AC source	EMCI	EMC184045SE	980656	2022/1/20	2023/1/19
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2022/3/29	2023/3/28
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2022/2/25	2023/2/24
Bilog Antenna	SCHWARZBECK	VULB-9168	00949	2022/5/29	2023/5/28
LF-AMP	Agilent	8447D	2727A05146	2022/2/16	2023/2/15
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102109	2022/2/25	2023/2/24
Microwave Cable	SUCOFLEX 104EA	800056/4EA	804680/4	2022/3/22	2023/3/21
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2021/12/8	2022/12/7
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures

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

Note:
1. All modes of operation were investigated and the worst-case emissions are reported.
2. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

Test Results

Modulation	Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Antenna Orientation	Detector or calculated value
FSK	315.00	44.00	67.66	Horizontal	Average
	315.00	65.87	87.66		Peak
	315.00	46.30	67.66	Vertical	Average
	315.00	66.08	87.66		Peak
	433.92	50.05	72.87	Horizontal	Average
	433.92	70.24	92.87		Peak
	433.92	39.65	72.87	Vertical	Average
	433.92	66.36	92.87		Peak
ASK	315.00	37.48	67.66	Horizontal	Average
	315.00	56.38	87.66		Peak
	315.00	38.04	67.66	Vertical	Average
	315.00	57.37	87.66		Peak
	433.92	60.04	72.87	Horizontal	Average
	433.92	72.77	92.87		Peak
	433.92	57.25	72.87	Vertical	Average
	433.92	70.04	92.87		Peak

Note:
With linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths is as follows:
315MHz, μV/m at 3 meters = 16.6667 x (315MHz) - 2833.3333 = 2416.68 μV/m
20log (2416.68) = 67.66 dBμV/m (Average Limit)
67.66 + 20 = 87.66 dBμV/m (Peak Limit)

433.92MHz, µV/m at 3 meters = 16.6667 x (433.92MHz) - 2833.3333 = 4398.68 µV/m
20log (4398.68) = 72.87 dBµV/m (Average Limit)
72.87 + 20 = 92.87 dBµV/m (Peak Limit)

Please refer to Appendix A for the details.

5.1.5 Radiated Spurious Emissions

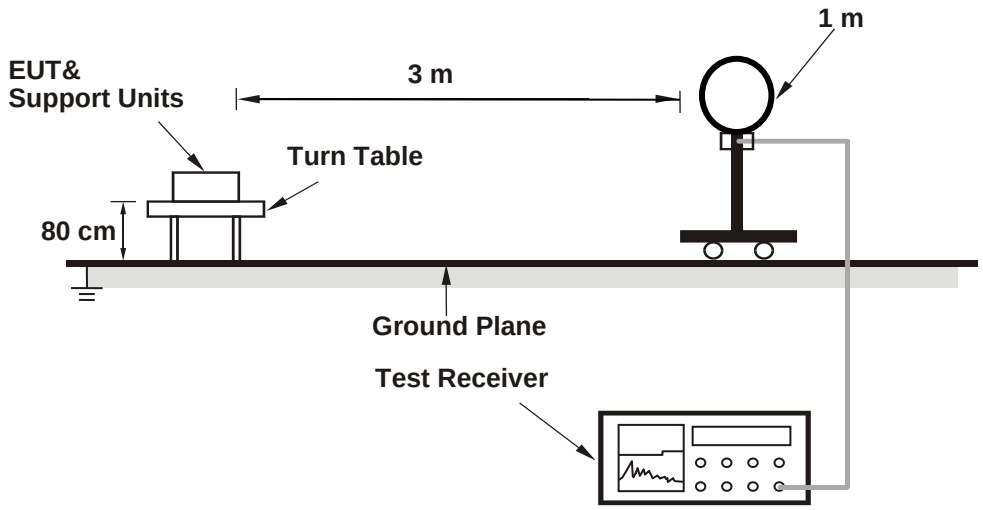
Limit

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

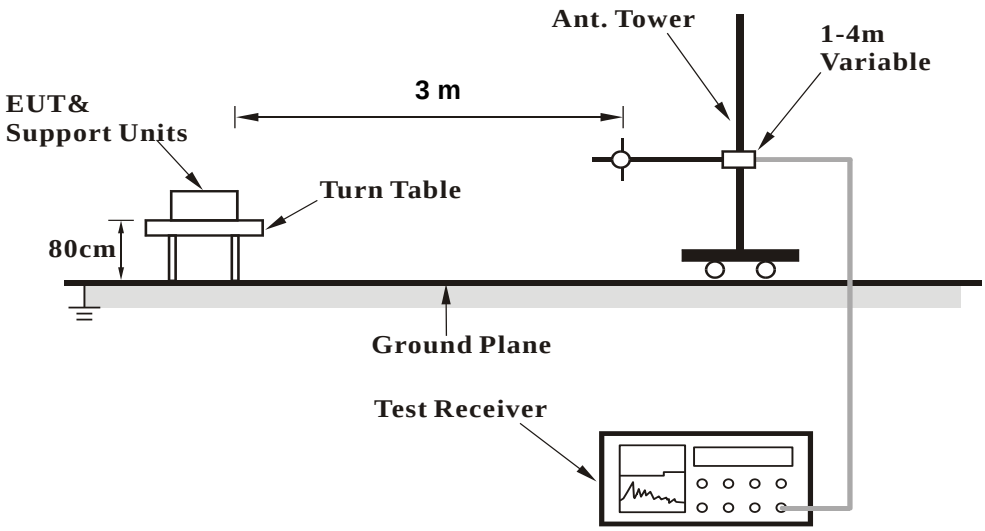
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

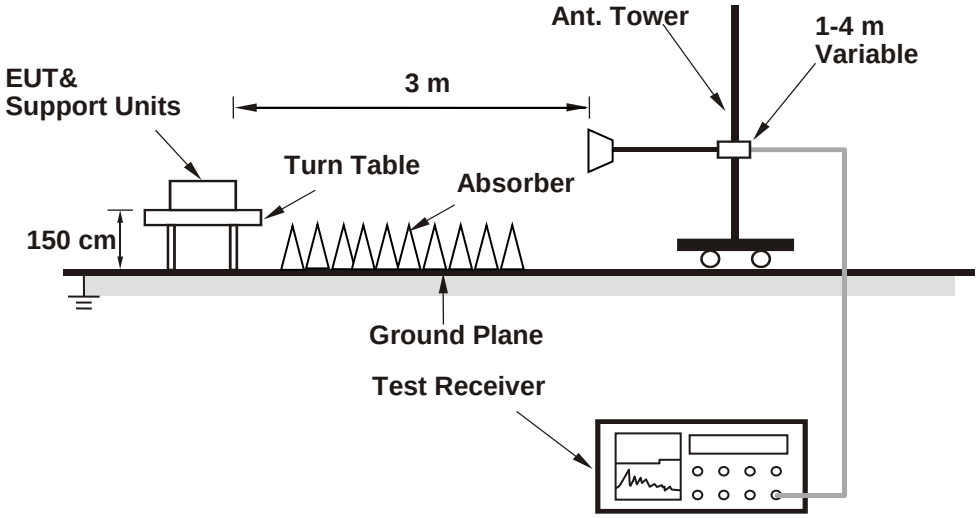
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



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

Test Instruments

Please refer to 5.1.4 Instruments

Test Procedures

For Radiated Emissions below 30 MHz

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

Note:

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

For Radiated Emissions above 30 MHz

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

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.
3. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix A.

Appendix A: Test Results of Radiated Spurious Emissions

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

FSK

315 MHz

(Open) 9kHz~150kHz

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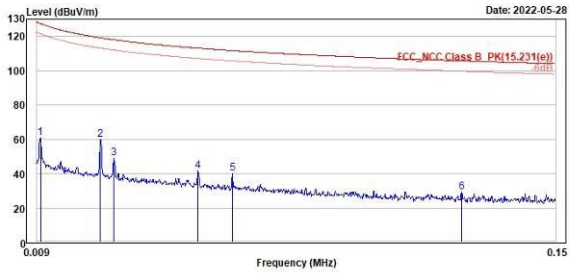

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	60.84	43.13	17.71	127.60	-66.76	100	44	QP	Open	
2	0.03	59.93	40.75	19.18	119.18	-59.25	100	341	QP	Open	
3	0.03	48.75	29.24	19.51	118.05	-69.30	100	36	QP	Open	
4	0.05	41.64	22.39	19.25	113.13	-71.49	100	61	QP	Open	
5	0.06	40.17	21.13	19.04	111.72	-71.55	100	21	QP	Open	
6	0.12	29.12	10.81	18.31	105.70	-76.58	100	81	QP	Open	

(Open) 150kHz~30MHz

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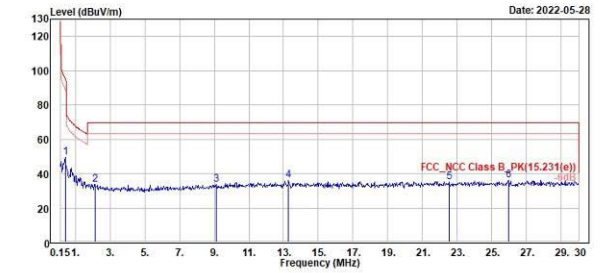

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.42	49.61	30.68	18.93	95.17	-45.56	100	175	QP	Open	
2	2.12	33.68	14.29	19.39	69.50	-35.82	100	152	QP	Open	
3	9.11	33.57	12.57	21.00	69.50	-35.93	100	223	QP	Open	
4	13.28	35.97	14.35	21.62	69.50	-33.53	100	236	QP	Open	
5	22.54	35.33	13.17	22.16	69.50	-34.17	100	264	QP	Open	
6	25.94	36.11	13.82	22.29	69.50	-33.39	100	193	QP	Open	

315 MHz

(Close) 9kHz~150kHz

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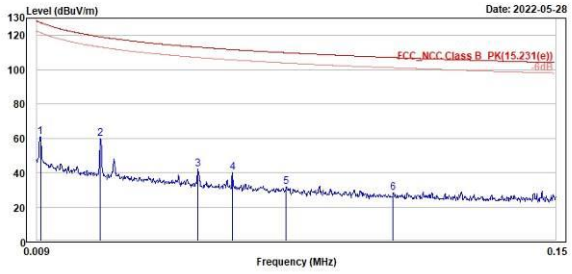

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	61.00	43.29	17.71	127.60	-66.60	100	191	QP	Close	
2	0.03	59.81	40.63	19.18	119.18	-59.37	100	111	QP	Close	
3	0.05	41.85	22.60	19.25	113.13	-71.28	100	266	QP	Close	
4	0.06	40.18	21.14	19.04	111.72	-71.54	100	203	QP	Close	
5	0.08	31.56	12.84	18.72	109.89	-78.33	100	221	QP	Close	
6	0.11	28.31	10.07	18.24	107.10	-78.79	100	214	QP	Close	

(Close) 150kHz~30MHz

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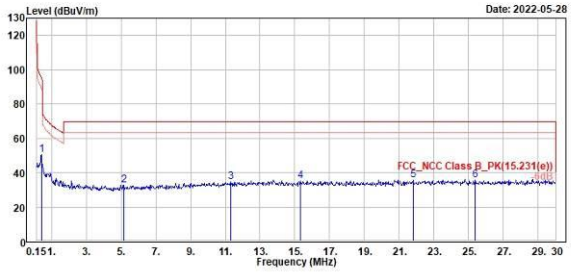

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.42	50.34	31.41	18.93	95.17	-44.83	100	176	QP	Close	
2	5.16	32.85	13.46	19.39	69.50	-36.65	100	118	QP	Close	
3	11.31	34.38	12.89	21.49	69.50	-35.12	100	51	QP	Close	
4	15.31	35.13	13.38	21.75	69.50	-34.37	100	196	QP	Close	
5	21.79	35.72	13.60	22.12	69.50	-33.78	100	195	QP	Close	
6	25.37	35.40	13.14	22.26	69.50	-34.10	100	205	QP	Close	

433.92 MHz

(Open) 9kHz~150kHz

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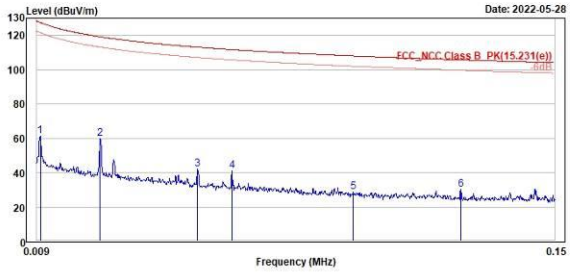

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	61.28	43.57	17.71	127.60	-66.32	100	36	QP	Open	
2	0.03	59.82	40.64	19.18	119.18	-59.36	100	333	QP	Open	
3	0.05	42.06	22.81	19.25	113.13	-71.07	100	173	QP	Open	
4	0.06	40.95	21.91	19.04	111.72	-70.77	100	97	QP	Open	
5	0.10	28.89	10.56	18.33	108.03	-79.14	100	147	QP	Open	
6	0.12	30.39	12.08	18.31	105.70	-75.31	100	151	QP	Open	

(Open) 150kHz~30MHz

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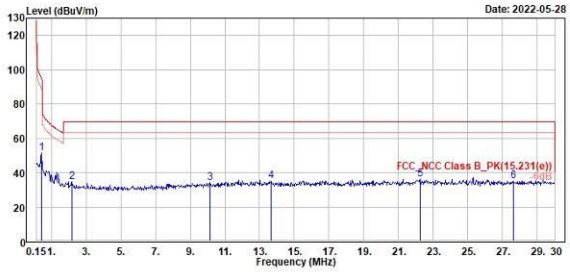

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.42	51.38	32.45	18.93	95.17	-43.79	100	70	QP	Open	
2	2.18	34.74	15.34	19.40	69.50	-34.76	100	70	QP	Open	
3	10.15	33.98	12.57	21.41	69.50	-35.52	100	206	QP	Open	
4	13.67	35.02	13.38	21.64	69.50	-34.48	100	246	QP	Open	
5	22.24	35.97	13.82	22.15	69.50	-33.53	100	215	QP	Open	
6	27.61	35.31	12.96	22.35	69.50	-34.19	100	145	QP	Open	

433.92 MHz

(Close) 9kHz~150kHz

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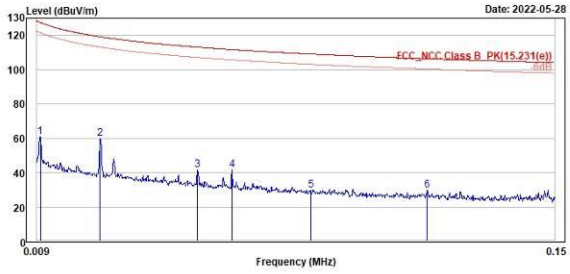

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	60.81	43.10	17.71	127.60	-66.79	100	142	QP	Close	
2	0.03	59.88	40.70	19.18	119.18	-59.30	100	229	QP	Close	
3	0.05	41.53	22.28	19.25	113.13	-71.60	100	80	QP	Close	
4	0.06	41.40	22.36	19.04	111.72	-70.32	100	311	QP	Close	
5	0.08	29.79	11.22	18.57	109.14	-79.35	100	211	QP	Close	
6	0.12	29.44	11.17	18.27	106.36	-76.92	100	147	QP	Close	

(Close) 150kHz~30MHz

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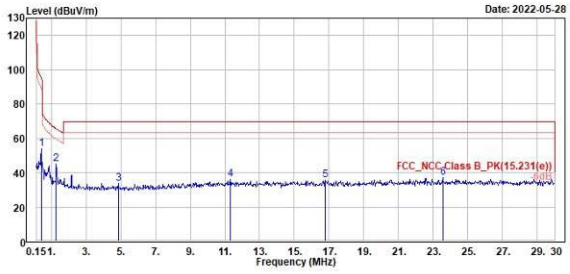

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.42	54.07	35.14	18.93	95.17	-41.10	100	174	QP	Close	
2	1.28	44.77	25.48	19.29	65.43	-20.66	100	174	QP	Close	
3	4.87	33.60	14.27	19.33	69.50	-35.90	100	191	QP	Close	
4	11.31	36.04	14.55	21.49	69.50	-33.46	100	332	QP	Close	
5	16.81	35.45	13.60	21.85	69.50	-34.05	100	126	QP	Close	
6	23.55	37.23	15.03	22.20	69.50	-32.27	100	93	QP	Close	

ASK

315 MHz

(Open) 9kHz~150kHz

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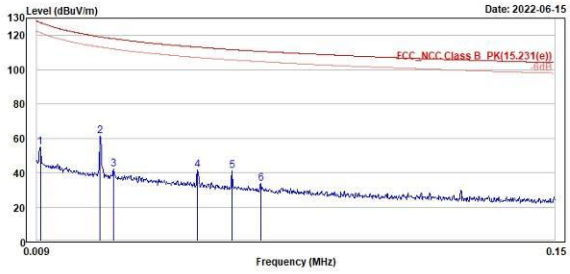

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	54.81	37.10	17.71	127.60	-72.79	100	230	QP	Open	
2	0.03	61.14	41.96	19.18	119.18	-58.04	100	210	QP	Open	
3	0.03	42.17	22.66	19.51	118.05	-75.88	100	104	QP	Open	
4	0.05	41.76	22.51	19.25	113.13	-71.37	100	154	QP	Open	
5	0.06	40.95	21.91	19.04	111.72	-70.77	100	184	QP	Open	
6	0.07	33.45	14.58	18.87	110.69	-77.24	100	284	QP	Open	

(Open) 150kHz~30MHz

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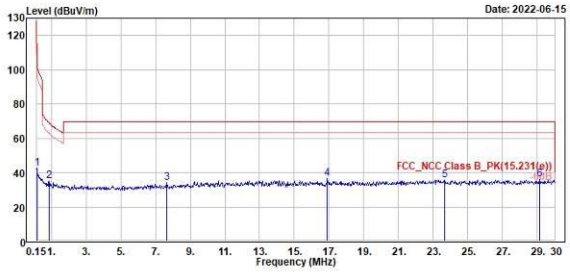

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.18	42.29	23.79	18.50	102.50	-60.21	100	255	QP	Open	
2	0.87	35.28	16.11	19.17	68.85	-33.57	100	27	QP	Open	
3	7.64	33.93	13.52	20.41	69.50	-35.57	100	347	QP	Open	
4	16.90	36.33	14.48	21.85	69.50	-33.17	100	217	QP	Open	
5	23.67	35.72	13.52	22.20	69.50	-33.78	100	345	QP	Open	
6	29.13	35.88	13.48	22.40	69.50	-33.62	100	152	QP	Open	

315 MHz

(Close) 9kHz~150kHz

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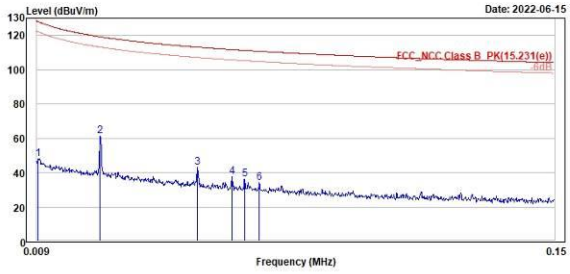

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	47.85	29.97	17.88	128.10	-80.25	100	38	QP	Close	
2	0.03	61.10	41.92	19.18	119.18	-58.08	100	273	QP	Close	
3	0.05	42.87	23.62	19.25	113.13	-70.26	100	134	QP	Close	
4	0.06	37.72	18.68	19.04	111.72	-74.00	100	303	QP	Close	
5	0.07	36.24	17.28	18.96	111.25	-75.01	100	322	QP	Close	
6	0.07	33.94	15.06	18.88	110.74	-76.80	100	184	QP	Close	

(Close) 150kHz~30MHz

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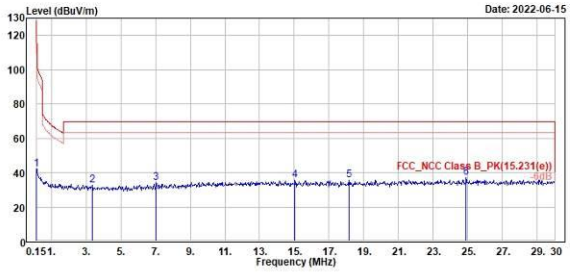

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.15	42.22	23.82	18.40	104.08	-61.86	100	214	QP	Close	
2	3.37	32.75	13.29	19.46	69.50	-36.75	100	124	QP	Close	
3	7.05	33.88	13.72	20.16	69.50	-35.62	100	353	QP	Close	
4	15.05	35.63	13.90	21.73	69.50	-33.87	100	108	QP	Close	
5	18.15	35.43	13.49	21.94	69.50	-34.07	100	178	QP	Close	
6	24.90	37.28	15.03	22.25	69.50	-32.22	100	293	QP	Close	

433.92 MHz

(Open) 9kHz~150kHz

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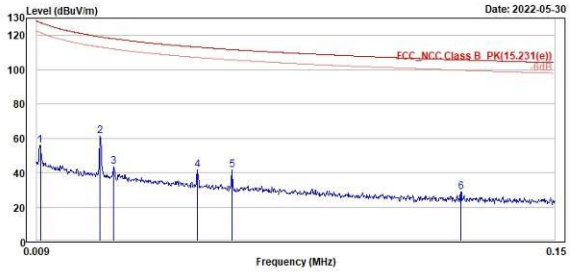

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	55.99	38.28	17.71	127.60	-71.61	100	4	QP	Open	
2	0.03	61.30	42.12	19.18	119.18	-57.88	100	298	QP	Open	
3	0.03	43.67	24.16	19.51	118.05	-74.38	100	77	QP	Open	
4	0.05	41.38	22.13	19.25	113.13	-71.75	100	11	QP	Open	
5	0.06	41.35	22.31	19.04	111.72	-70.37	100	76	QP	Open	
6	0.12	28.67	10.36	18.31	105.70	-77.03	100	280	QP	Open	

(Open) 150kHz~30MHz

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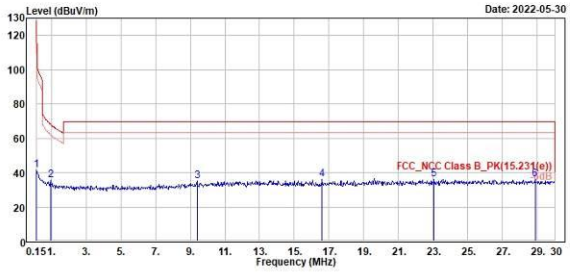

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.15	41.31	22.91	18.40	104.08	-62.77	100	13	QP	Open	
2	0.96	35.67	16.45	19.22	68.00	-32.33	100	214	QP	Open	
3	9.40	34.85	13.71	21.14	69.50	-34.65	100	232	QP	Open	
4	16.60	35.85	14.01	21.84	69.50	-33.65	100	30	QP	Open	
5	23.04	35.99	13.82	22.17	69.50	-33.51	100	327	QP	Open	
6	28.87	36.25	13.85	22.40	69.50	-33.25	100	220	QP	Open	

433.92 MHz

(Close) 9kHz~150kHz

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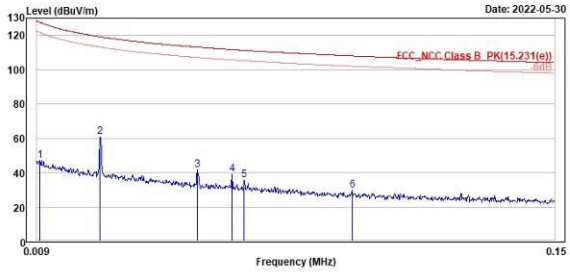

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.01	47.10	29.34	17.76	127.72	-80.62	100	321	QP	Close	
2	0.03	61.01	41.83	19.18	119.18	-58.17	100	170	QP	Close	
3	0.05	41.44	22.19	19.25	113.13	-71.69	100	339	QP	Close	
4	0.06	38.87	19.83	19.04	111.70	-72.83	100	54	QP	Close	
5	0.07	35.42	16.45	18.97	111.26	-75.84	100	164	QP	Close	
6	0.09	29.82	11.50	18.32	108.05	-78.23	100	138	QP	Close	

(Close) 150kHz~30MHz

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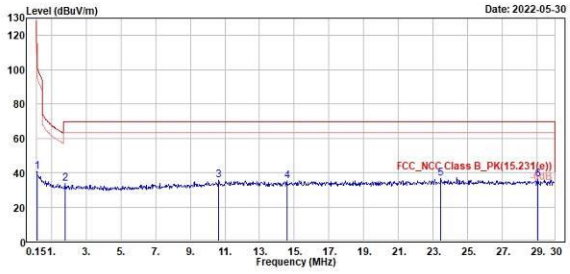

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	0.18	40.74	22.24	18.50	102.50	-61.76	100	156	QP	Close	
2	1.79	33.64	14.29	19.35	69.50	-35.86	100	47	QP	Close	
3	10.66	35.79	14.35	21.44	69.50	-33.71	100	23	QP	Close	
4	14.57	35.19	13.49	21.70	69.50	-34.31	100	61	QP	Close	
5	23.43	36.51	14.32	22.19	69.50	-32.99	100	260	QP	Close	
6	29.01	36.13	13.73	22.40	69.50	-33.37	100	304	QP	Close	

Spurious Emissions, Tx Mode, 30MHz ~ 1GHz
FSK

315 MHz

(Horizontal)

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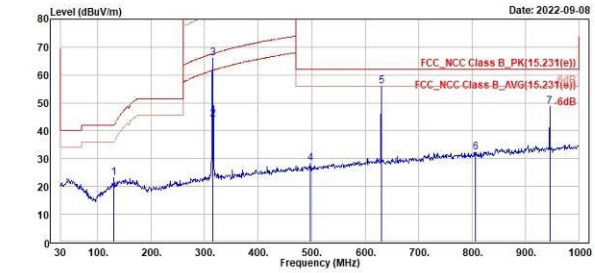

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	129.91	23.24	30.26	-7.02	41.94	-18.70	200	173	Peak	Horizontal	
2	315.00	44.00	48.40	-4.40	67.66	-23.66	100	263	Average	Horizontal	
3	315.00	65.87	70.27	-4.40	87.66	-21.79	100	263	Peak	Horizontal	
4	497.54	28.17	29.91	-1.74	61.94	-33.77	300	77	Peak	Horizontal	
5	630.43	55.90	55.15	0.75	61.94	-6.04	130	141	Peak	Horizontal	
6	806.97	32.32	29.01	3.31	61.94	-29.62	165	111	Peak	Horizontal	
7	945.68	48.53	43.16	5.37	61.94	-13.41	100	155	Peak	Horizontal	

(Vertical)

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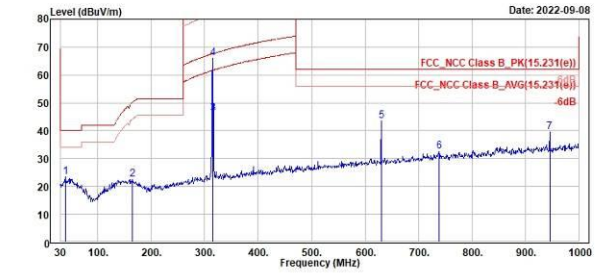

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	38.73	23.55	30.02	-6.47	40.00	-16.45	300	282	Peak	Vertical	
2	164.83	22.60	28.34	-5.74	50.18	-27.58	300	261	Peak	Vertical	
3	315.00	46.30	50.70	-4.40	67.66	-21.36	200	66	Average	Vertical	
4	315.00	66.08	70.48	-4.40	87.66	-21.58	200	66	Peak	Vertical	
5	630.43	43.52	42.77	0.75	61.94	-18.42	100	229	Peak	Vertical	
6	739.07	32.40	29.93	2.47	61.94	-29.54	100	207	Peak	Vertical	
7	945.68	39.62	34.25	5.37	61.94	-22.32	100	64	Peak	Vertical	

433.92 MHz

(Horizontal)

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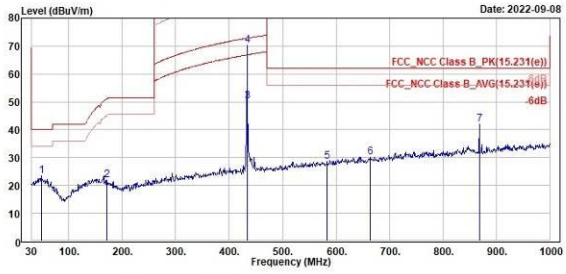

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	48.43	23.37	29.29	-5.92	40.00	-16.63	300	58	Peak	Horizontal	
2	170.65	21.99	28.09	-6.10	51.03	-29.04	100	2	Peak	Horizontal	
3	433.92	50.05	52.30	-2.25	72.87	-22.82	200	162	Average	Horizontal	
4	433.92	70.24	72.49	-2.25	92.87	-22.63	200	162	Peak	Horizontal	
5	583.87	28.49	28.50	-0.01	61.94	-33.45	200	82	Peak	Horizontal	
6	664.38	30.15	28.94	1.21	61.94	-31.79	200	292	Peak	Horizontal	
7	868.08	41.97	37.76	4.21	61.94	-19.97	100	31	Peak	Horizontal	

(Vertical)

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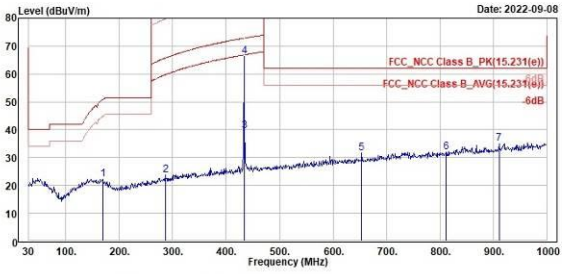

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	168.71	22.27	28.23	-5.96	50.75	-28.48	252	360	Peak	Vertical	
2	286.08	23.86	28.83	-4.97	85.73	-61.87	100	300	Peak	Vertical	
3	433.92	39.65	41.90	-2.25	72.87	-33.22	131	111	Average	Vertical	
4	433.92	66.36	68.61	-2.25	92.87	-26.51	131	111	Peak	Vertical	
5	653.71	31.59	30.61	0.98	61.94	-30.35	200	218	Peak	Vertical	
6	811.82	31.89	28.53	3.36	61.94	-30.05	300	332	Peak	Vertical	
7	910.76	34.90	29.96	4.94	61.94	-27.04	400	26	Peak	Vertical	

ASK

315 MHz

(Horizontal)

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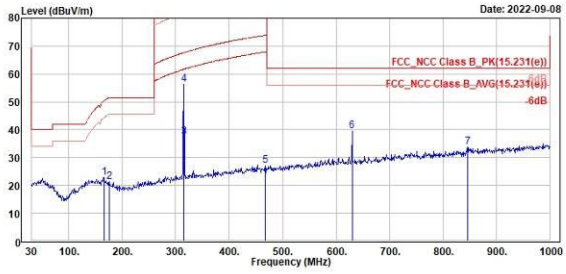

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	165.80	22.94	28.73	-5.79	50.33	-27.39	300	112	Peak	Horizontal	
2	175.50	21.30	27.93	-6.63	51.48	-30.18	100	96	Peak	Horizontal	
3	315.00	37.48	41.88	-4.40	67.66	-30.18	100	158	Average	Horizontal	
4	315.00	56.38	60.78	-4.40	87.66	-31.28	100	158	Peak	Horizontal	
5	467.47	27.19	29.09	-1.90	93.91	-66.72	200	1	Peak	Horizontal	
6	630.00	39.58	38.82	0.76	61.94	-22.36	139	360	Peak	Horizontal	
7	846.74	33.70	29.66	4.04	61.94	-28.24	300	110	Peak	Horizontal	

(Vertical)

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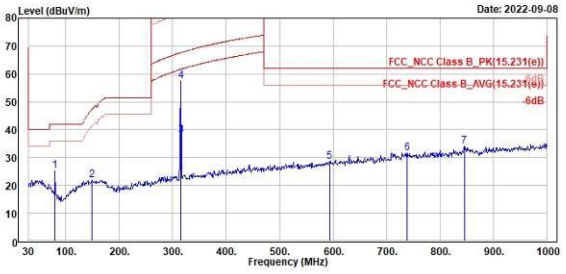

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	79.47	25.22	35.54	-10.32	41.94	-16.72	400	253	Peak	Vertical	
2	149.31	21.97	27.91	-5.94	47.41	-25.44	400	11	Peak	Vertical	
3	315.00	38.04	42.44	-4.40	67.66	-29.62	200	248	Average	Vertical	
4	315.00	57.37	61.77	-4.40	87.66	-30.29	200	248	Peak	Vertical	
5	593.57	28.51	28.34	0.17	61.94	-33.43	200	8	Peak	Vertical	
6	738.10	31.63	29.20	2.43	61.94	-30.31	300	43	Peak	Vertical	
7	845.77	33.94	29.91	4.03	61.94	-28.00	129	360	Peak	Vertical	

433.92 MHz

(Horizontal)

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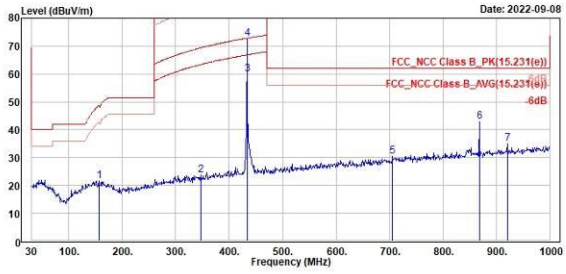

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	156.10	21.53	27.32	-5.79	48.68	-27.15	200	114	Peak	Horizontal	
2	346.22	23.78	27.55	-3.77	89.36	-65.58	200	55	Peak	Horizontal	
3	433.52	60.04	62.30	-2.26	72.85	-12.81	200	319	Average	Horizontal	
4	433.52	72.77	75.03	-2.26	92.85	-20.08	200	319	Peak	Horizontal	
5	706.09	30.32	28.50	1.82	61.94	-31.62	300	63	Peak	Horizontal	
6	868.08	42.76	38.55	4.21	61.94	-19.18	100	209	Peak	Horizontal	
7	920.46	34.84	29.75	5.09	61.94	-27.10	200	196	Peak	Horizontal	

(Vertical)

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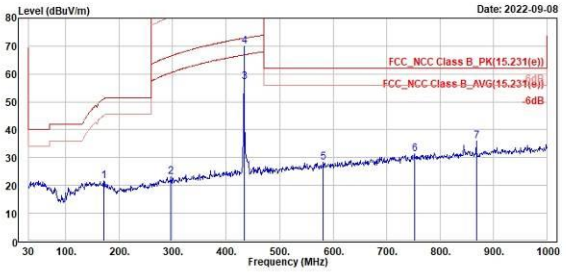

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	170.65	21.67	27.77	-6.10	51.03	-29.36	200	351	Peak	Vertical	
2	296.75	23.03	27.74	-4.71	86.50	-63.47	203	211	Peak	Vertical	
3	433.92	57.25	59.50	-2.25	72.87	-15.62	146	360	Average	Vertical	
4	433.92	70.04	72.29	-2.25	92.87	-22.83	146	360	Peak	Vertical	
5	581.93	28.15	28.21	-0.06	61.94	-33.79	100	218	Peak	Vertical	
6	752.65	31.25	28.45	2.80	61.94	-30.69	100	268	Peak	Vertical	
7	868.08	35.84	31.63	4.21	61.94	-26.10	200	78	Peak	Vertical	

Spurious Emissions, Tx Mode, 1GHz ~ 5GHz
FSK

315 MHz

(Horizontal)

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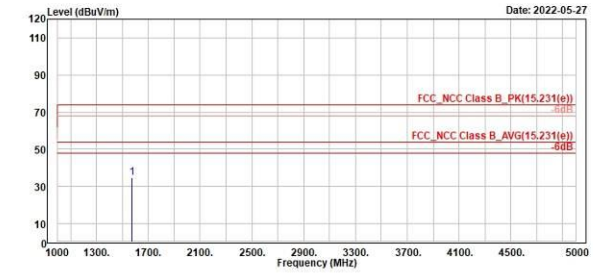

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1575.00	34.71	53.11	-18.40	74.00	-39.29	100	204	Peak	Horizontal	

(Vertical)

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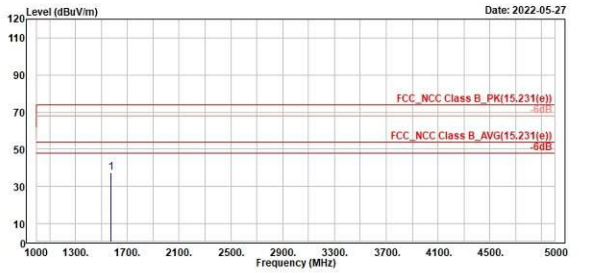

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1575.00	37.31	55.96	-18.65	74.00	-36.69	100	8	Peak	Vertical	

433.92 MHz

(Horizontal)

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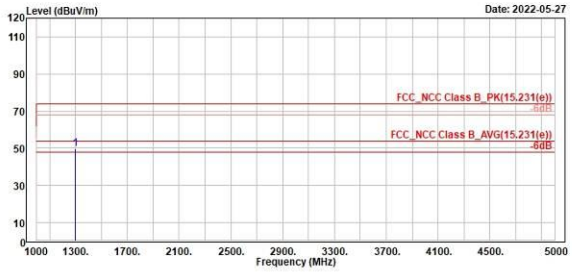

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1301.70	49.92	68.93	-19.01	74.00	-24.08	122	11	Peak	Horizontal	

(Vertical)

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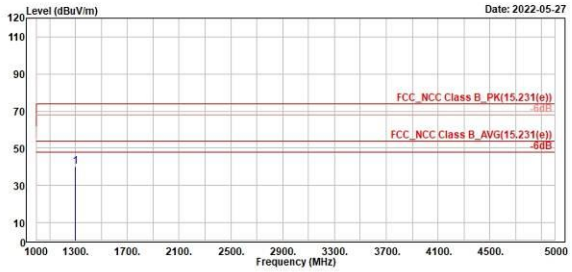

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1301.70	40.04	58.94	-18.90	74.00	-33.96	100	268	Peak	Vertical	

ASK

315 MHz

(Horizontal)

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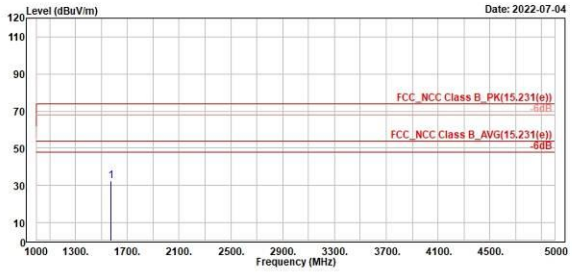

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1575.00	32.53	50.93	-18.40	74.00	-41.47	100	356	Peak	Horizontal	

(Vertical)

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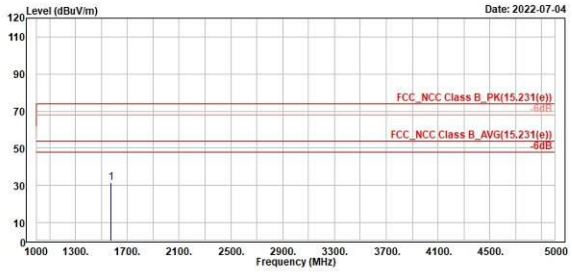

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1575.00	31.54	50.19	-18.65	74.00	-42.46	300	30	Peak	Vertical	

433.92 MHz

(Horizontal)

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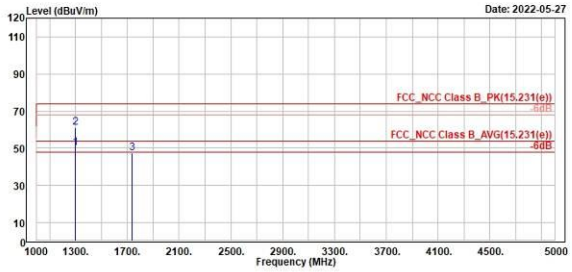

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1 !	1301.88	50.40	69.41	-19.01	54.00	-3.60	120	360	Average	Horizontal	CF
2	1301.88	61.24	80.25	-19.01	74.00	-12.76	120	360	Peak	Horizontal	
3	1735.77	47.45	64.41	-16.96	74.00	-26.55	300	354	Peak	Horizontal	

(Vertical)

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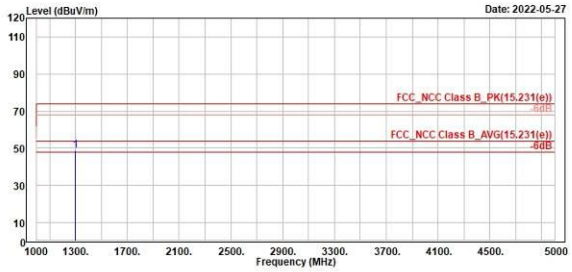

	Freq	Level	Read Level	Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg			
1	1301.88	48.79	67.69	-18.90	74.00	-25.21	100	259	Peak	Vertical	