



TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR26-SRF0143-A Page(1) of (31)	 eurofins KCTL
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1. Client

- Name : Panaxtos Corp.
- Address : #303, 3F, Shindong-A Tower, 33, Ogeum-ro 11-gil, Songpa-gu, Seoul, South Korea
- Date of Receipt : 2026-05-19

2. Use of Report : Certification

3. Name of Product / Model : EEG Measurement Device / NeuroharmonyS26_MG

4. Manufacturer / Country of Origin : Panaxtos Corp. / Korea

5. FCC ID : 2BWYU-S26

6. Date of Test : 2026-06-24 to 2026-09-09

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing (Address:65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

8. Test method used : FCC Part 15 Subpart C, 15.247

9. Test Result : Refer to the test result in the test report

Affirmation	Tested by	Technical Manager
	Name : Seung Kim (Signature)	Name : Kwonse Kim (Signature)

2026-09-09

Eurofins KCTL Co.,Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2026-08-13	Originally issued	-
2026-09-09	Updated	1,4,8,29-31

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Note. The report No. KR26-SRF0143 is superseded by the report No. KR26-SRF0143-A.

General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ Statement not required by the standard or client used for type testing

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1. General information

Client : Panaxtos Corp.
 Address : #303, 3F, Shindong-A Tower, 33, Ogeum-ro 11-gil, Songpa-gu, Seoul, South Korea
 Manufacturer : Panaxtos Corp.
 Address : #303, 3F, Shindong-A Tower, 33, Ogeum-ro 11-gil, Songpa-gu, Seoul, South Korea
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
 CAB Identifier. : KR0040
 ISED Number. : 8035A
 KOLAS No.: KT231

2. Device information

Equipment under test : EEG Measurement Device
 Model : NeuroharmonyS26_MG
 Derivative Model : NeuroharmonyS26_IG
 Frequency range : 2 402 MHz ~ 2 480 MHz (Bluetooth Low Energy)
 Modulation technique : GFSK
 Number of channels : 40 ch
 Power source : DC 3.7 V (Battery)
 Antenna specification : Chip Antenna
 Antenna gain : -0.65 dBi
 Software version : Firmware_S26_V2
 Hardware version : S26U_V9-7
 Test device serial No. : N/A
 Operation temperature : 0 °C ~ 45 °C

2.1. Information about derivative model

The difference between basic model and derivative models is:

Model name	Basic model	Variant model	Difference (Color of the exterior)
NeuroharmonyS26_MG	O	-	mint
NeuroharmonyS26_IG	-	O	ivory

2.2. Frequency/channel operations

This device contains the following capabilities:

Bluetooth Low Energy

Ch.	Frequency (MHz)
00	2 402
⋮	⋮
19	2 440
⋮	⋮
39	2 480

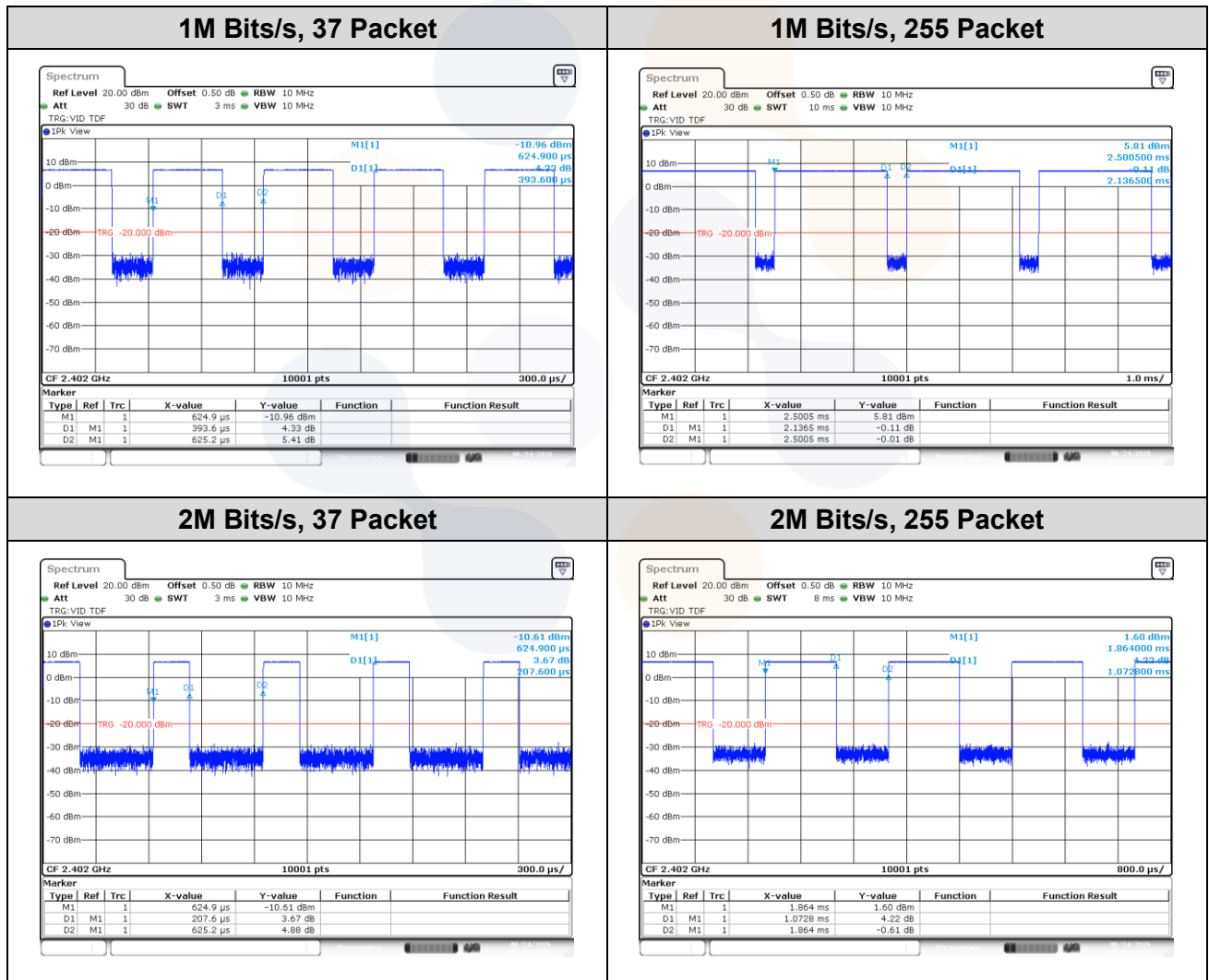
Table 2.2.1. Bluetooth Low Energy (1M, 2M)

2.3. Duty Cycle Factor

Test mode	Period (ms)	On time (ms)	Duty cycle		Duty Cycle Factor (dB)
			(Linear)	(%)	
1M Bits/s, 37 Packet	0.625	0.394	0.630 4	63.04	2.00
1M Bits/s, 255 Packet	2.501	2.137	0.854 8	85.45	0.68
2M Bits/s, 37 Packet	0.625	0.208	0.332 8	33.28	4.78
2M Bits/s, 255 Packet	1.864	1.073	0.575 6	57.56	2.40

Notes:

1. Duty cycle (Linear) = Ton time / Period
2. DCF(Duty cycle factor) = $10\log(1/\text{duty cycle})$
3. DCF is not compensated to average result if the duty cycle is more than 98%



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3. Antenna requirement

Requirement of FCC part section 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 transmitter has permanently attached Chip Antenna (Internal antenna) on board.
- The E.U.T Complies with the requirement of §15.203, §15.247.



4. Summary of tests

FCC Part section(s)	Parameter	Test Condition	Test results
15.247(b)(3)	Maximum conducted output power	Conducted	Pass
15.207(a)	AC Conducted Emissions		Pass
15.205(a), 15.209(a)	Spurious emission	Radiated	Pass
	Band-edge, restricted band		Pass

Notes:

- For other test items, please refer to original test report.
 - Report No. E2/2018/50091-01 issued on Oct 14, 2019 by SGS Taiwan Ltd. (FCC ID: SH6MDBT50Q)
- The conducted output power was verified on the host and confirmed to be lower than the original modular filing. The device remains compliant with all applicable regulatory limits.
- The radiated emission test was based on the worst-case of Host device's conducted output power.
- The test procedure(s) in this report were performed in accordance as following.
 - ANSI C63.10-2020+Cor.1-2023
 - KDB 558074 D01 v05r02
- The equipment was subjected to RF testing with the Worst-case below.
 worst-case data rate were:
 - 1M Bits/s, Packet length 37 Bytes
 - 2M Bits/s, Packet length 255 Bytes

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020.

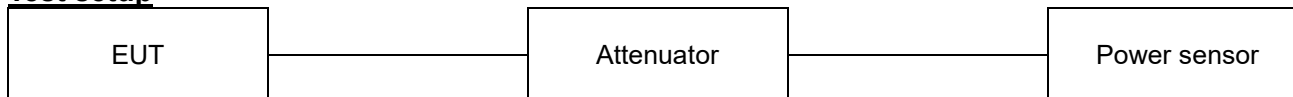
All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty ($\pm$)	
Conducted RF Power	0.9 dB	
Radiated Emissions	Below 30 MHz:	2.4 dB
	30 MHz ~ 1 000 MHz	2.6 dB
	1 000 MHz ~ 18 000 MHz	4.7 dB
	Above 18 000 MHz	4.8 dB
Conducted Emissions	150 kHz to 30 MHz	2.8 dB

6. Test results

6.1. Maximum peak output power

Test setup



Limit

According to §15.247(b)(3),

For systems using digital modulation in the 902-928 MHz, 2 400-2 483.5 MHz, and 5 725-5 850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

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.

Test procedure

ANSI C63.10 - Section 11.9.1.2, 11.9.2.3.1

Test settings

General

Section 15.247 permits the maximum conducted (average) output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth (see ANSI C63.10 for measurement guidance).

When using a spectrum analyzer or EMI receiver to perform these measurements, it shall be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW to set a bin-to-bin spacing of $\leq \text{RBW}/2$ so that narrowband signals are not lost between frequency bins.

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level. The intent is to test at 100 % duty cycle; however a small reduction in duty cycle (to no lower than 98 %) is permitted, if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

If continuous transmission (or at least 98 % duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level, with the transmit duration as long as possible, and the duty cycle as high as possible during which sweep triggering/signal gating techniques may be used to perform the measurement over the transmission duration.

11.9.1.2. PKPM1 Peak power meter method

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

11.9.2.3.1. Measurement using a power meter (PM)

Method AVGPM is a measurement using an RF average power meter, as follows:

- a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle, D, of the transmitter output signal as described in 11.6.
- c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
- d) Adjust the measurement in dBm by adding $[10 \log(1/D)]$, where D is the duty cycle

Note:

A peak responding power sensor is used, where the power sensor system video bandwidth is greater than the occupied bandwidth of the EUT.

Test results

Frequency(MHz)	Data rate (Bits/s)	Packet length (Bytes)	Measured output power (dBm)		Limit (dBm)
			Peak	Average	
2 402	1M	37	2.64	2.45	30.00
		255	2.60	2.43	
37		2.37	2.19		
255		2.33	2.16		
37		2.37	2.18		
255		2.31	2.15		
2 402	2M	37	2.64	2.44	
		255	2.69	2.55	
37		2.36	2.17		
255		2.41	2.28		
37		2.34	2.12		
255		2.34	2.19		

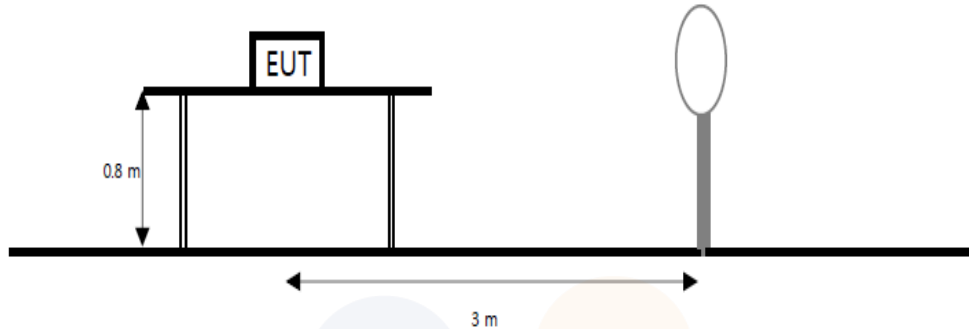
Note:

1. Average conducted output power (dBm) = Reading value of average power (dBm) + D.C.F (dB)

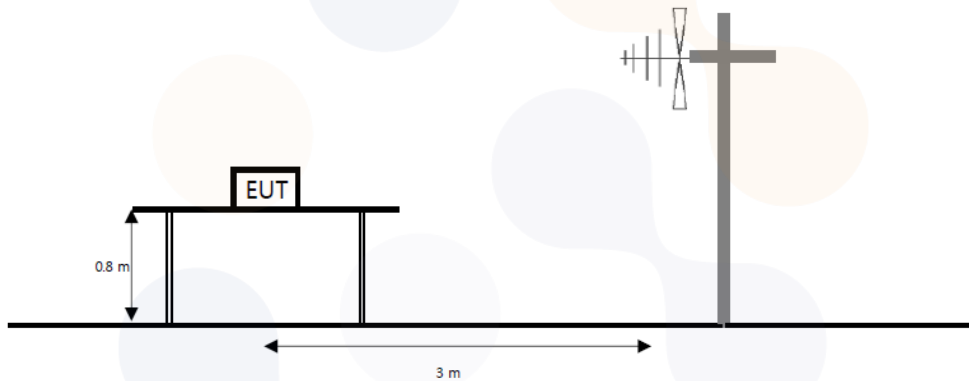
6.2. Spurious Emission, Band Edge and Restricted bands

Test setup

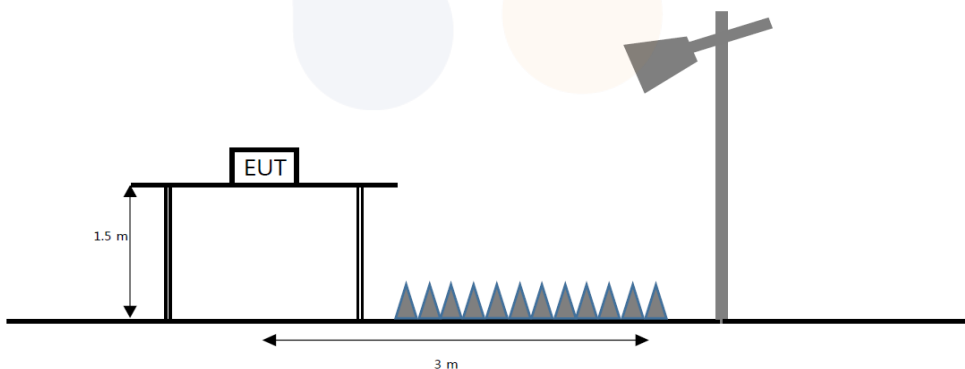
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz emissions, whichever is lower.



Limit

According to section 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)	Field strength ($\mu V/m$)	Measurement distance (m)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

**Except as provided in paragraph (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., Section 15.231 and 15.241.

According to section 15.205(a) and (b),

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.694 75 - 16.695 25	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 - 1 240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 - 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 - 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 - 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 - 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 - 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 - 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 - 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525	2 483.5 - 2 500	17.7 - 21.4
8.376 25 - 8.386 75	25	2 690 - 2 900	22.01 - 23.12
8.414 25 - 8.414 75	156.7 - 156.9	3 260 - 3 267	23.6 - 24.0
12.29 - 12.293	162.012 5 - 167.17	3 332 - 3 339	31.2 - 31.8
12.519 75 - 12.520 25	167.72 - 173.2	3 345.8 - 3 358	36.43 - 36.5
12.576 75 - 12.577 25	240 - 285	3 600 - 4 400	Above 38.6
13.36 - 13.41	322 - 335.4		

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in section 15.209. At frequencies equal to or less than 1 000 MHz, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1 000 MHz, compliance with the emission limits in section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in section 15.35 apply to these measurements.

Test procedure

ANSI C63.10 - Section 11.12.2.4, 11.12.2.5.1, 11.12.2.5.2.1

Test settings

Peak field strength measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in table
3. VBW $\geq$ (3 $\times$ RBW)
4. Detector = peak
5. Sweep time = auto
6. Trace mode = max hold
7. Allow sweeps to continue until the trace stabilizes

Table. RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1 000 MHz	100 kHz to 120 kHz
> 1 000 MHz	1 MHz

Average field strength measurements

Trace averaging with continuous EUT transmission at full power

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), then the average emission levels shall be measured using the following method (with EUT transmitting continuously):

1. RBW = 1 MHz (unless otherwise specified).
2. VBW $\geq$ (3 $\times$ RBW).
3. Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
4. Averaging type = power (i.e., rms):
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
5. Sweep time = auto.
6. Perform a trace average of at least 100 traces.

Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less than $\pm 2\%$), then the following procedure shall be used:

1. The EUT shall be configured to operate at the maximum achievable duty cycle.
2. Measure the duty cycle D of the transmitter output signal as described in 11.6.
3. RBW = 1 MHz (unless otherwise specified).
4. VBW $\geq [3 \times \text{RBW}]$.
5. Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.

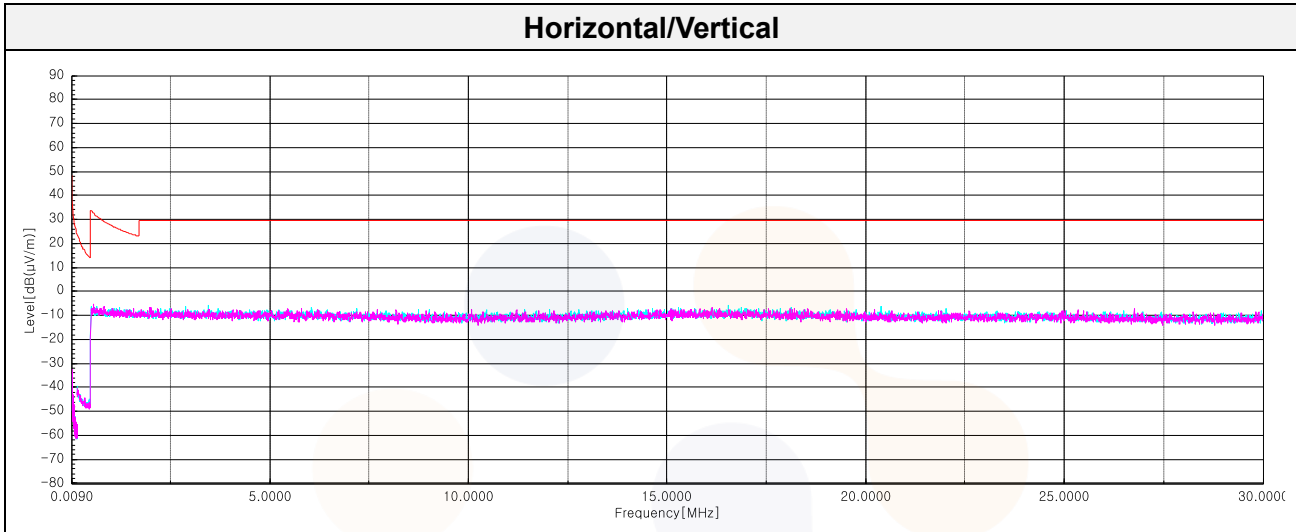
6. Averaging type = power (i.e., rms):
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
7. Sweep time = auto.
8. Perform a trace average of at least 100 traces.
9. A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is $[10 \log (1 / D)]$, where D is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $[20 \log (1 / D)]$, where D is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Notes:

1. $f < 30$ MHz, extrapolation factor of 40 dB/decade of distance. $F_d = 40 \log(D_m/D_s)$
 $f \geq 30$ MHz, extrapolation factor of 20 dB/decade of distance. $F_d = 20 \log(D_m/D_s)$
 Where:
 F_d = Distance factor in dB
 D_m = Measurement distance in meters
 D_s = Specification distance in meters
2. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or F_d (dB)
3. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
4. Average test would be performed if the peak result were greater than the average limit.
5. ¹⁾ means restricted band.
6. Above 1 GHz the worst results between two antenna polarizations (H and V) were documented in the test report.
7. Below 30 MHz frequency range, In order to search for the worst result, all orientations about parallel, perpendicular, and ground-parallel were investigated then reported. when the emission level was higher than 20 dB of the limit, then the following statement shall be made: "No spurious emissions were detected within 20 dB of the limit."

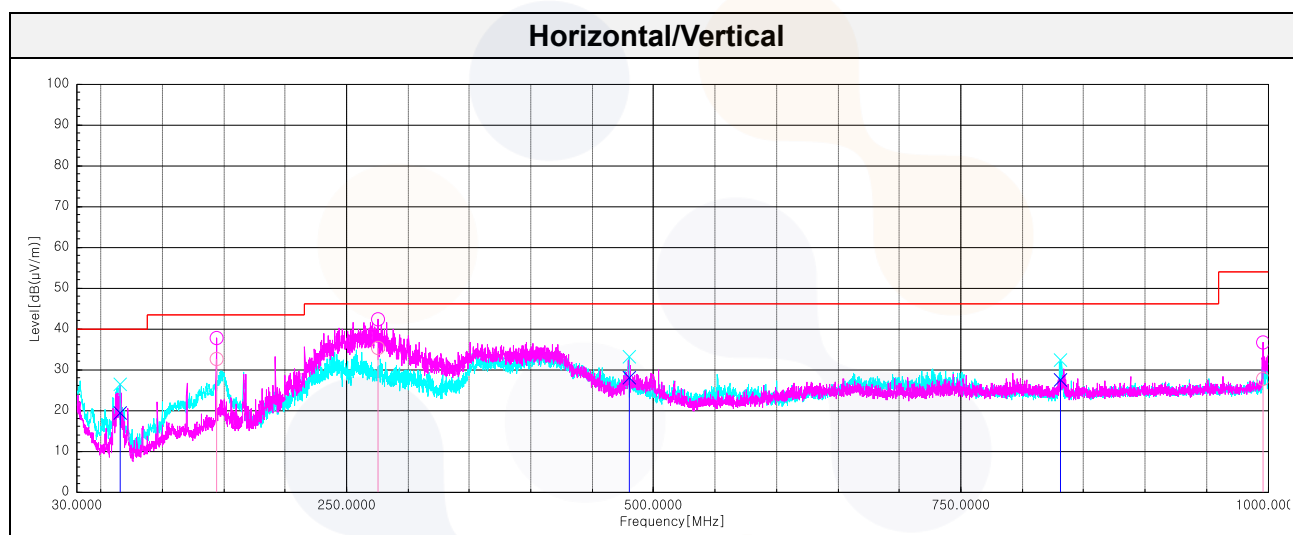
Test results (Below 30 MHz) – Worst case: 2 Mbits/s(255 Bytes) 2 402 MHz

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Quasi peak data								
No spurious emissions were detected within 20 dB of the limit.								



Test results (Below 1 000 MHz) – Worst case: 2 Mbits/s(255 Bytes) 2 402 MHz

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data								
65.53	V	38.60	12.35	-31.55	-	19.40	40.00	20.60
143.98	H	46.80	17.20	-31.39	-	32.61	43.52	10.91
275.53 ¹⁾	H	47.30	18.70	-30.72	-	35.28	46.02	10.74
480.20	V	35.20	23.10	-30.19	-	28.11	46.02	17.91
831.22	V	30.20	25.80	-28.72	-	27.28	46.02	18.74
996.12 ¹⁾	H	27.40	27.30	-27.09	-	27.61	54.00	26.39

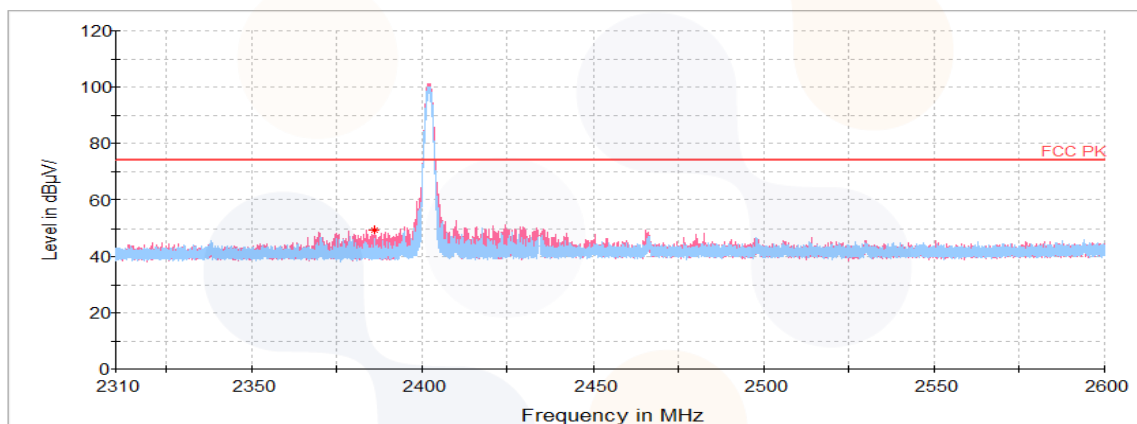


Test results (Above 1 000 MHz)
1 Mbits/s(37 Bytes)

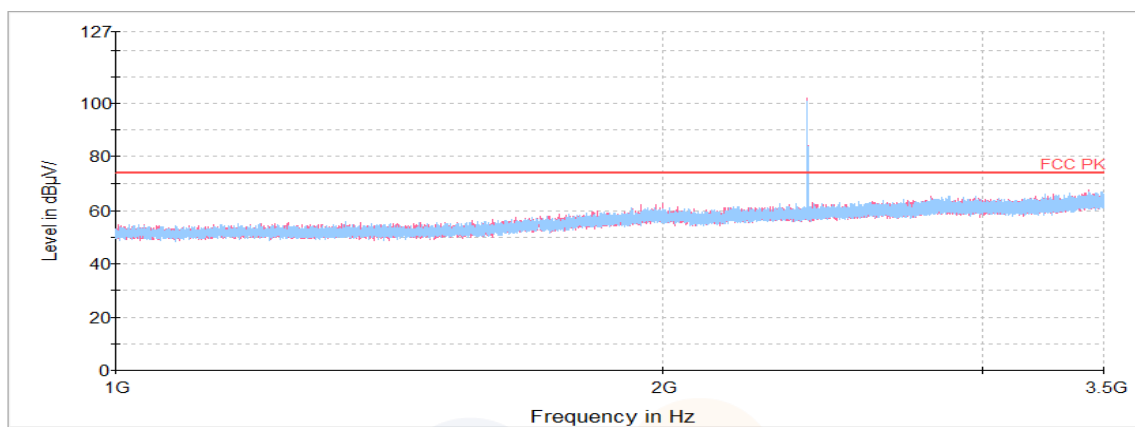
Low Channel

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data								
2 385.85 ¹⁾	V	45.65	32.09	-28.47	-	49.27	74.00	24.73
3 996.38 ¹⁾	V	59.75	33.20	-45.25	-	47.70	74.00	26.30
4 804.07 ¹⁾	V	54.42	33.98	-44.93	-	43.47	74.00	30.53
7 190.25	V	54.96	35.64	-43.62	-	46.98	74.00	27.02
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

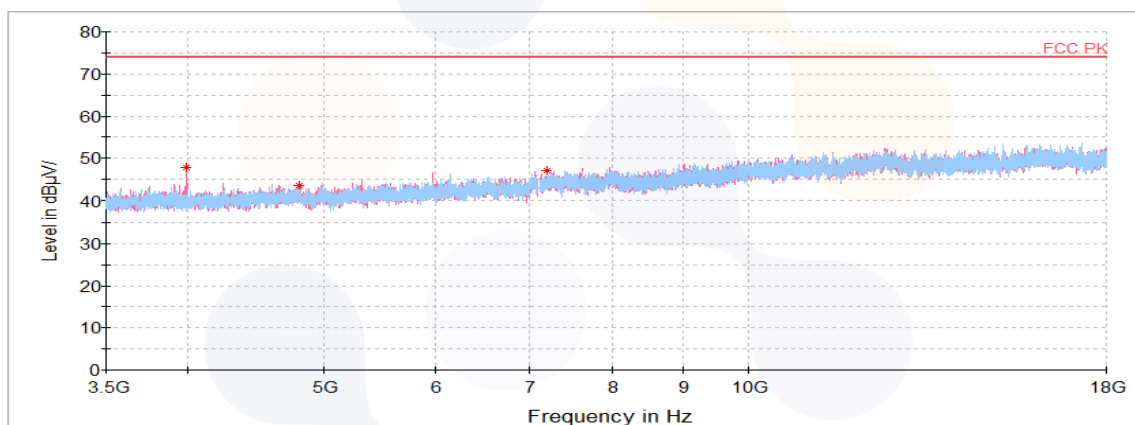
Horizontal/Vertical for Band-edge



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



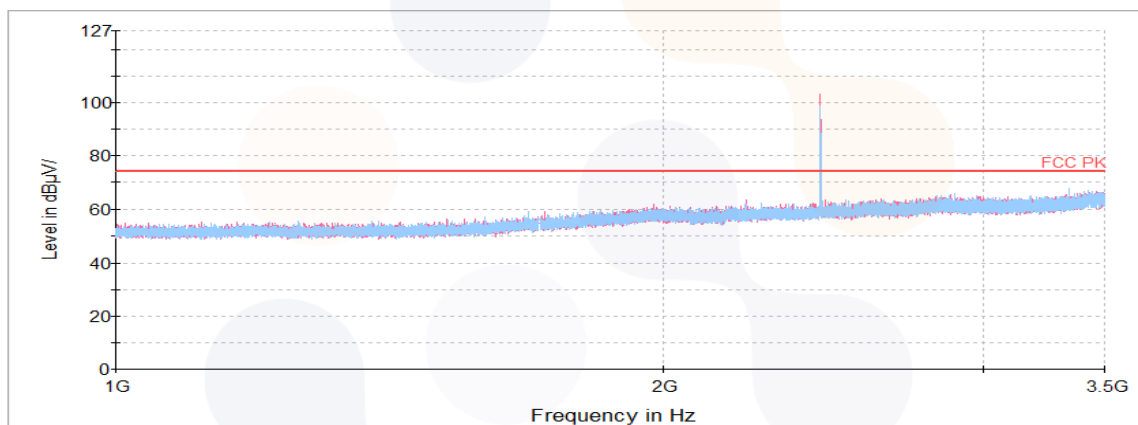
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



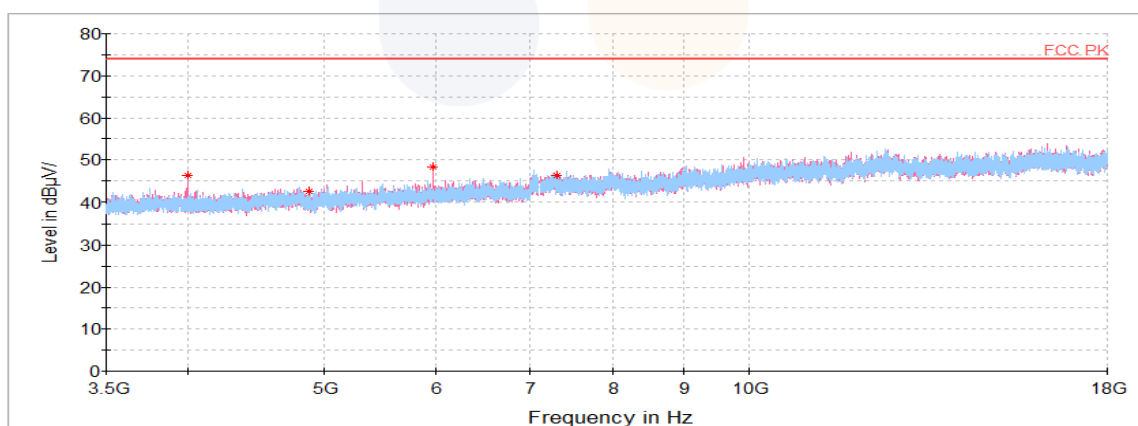
Middle Channel

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data								
4 000.25 ¹⁾	V	58.39	33.20	-45.25	-	46.34	74.00	27.66
4 880.88 ¹⁾	V	53.56	34.03	-45.01	-	42.58	74.00	31.42
5 980.47	V	57.33	35.18	-44.26	-	48.25	74.00	25.75
7 314.95 ¹⁾	H	54.28	35.66	-43.54	-	46.40	74.00	27.60
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz

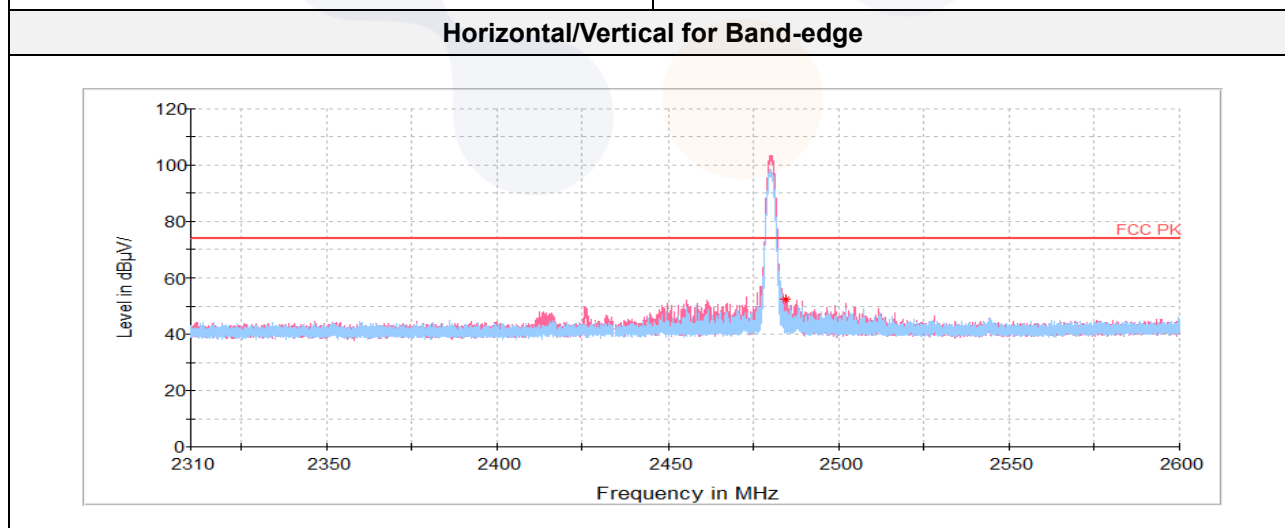
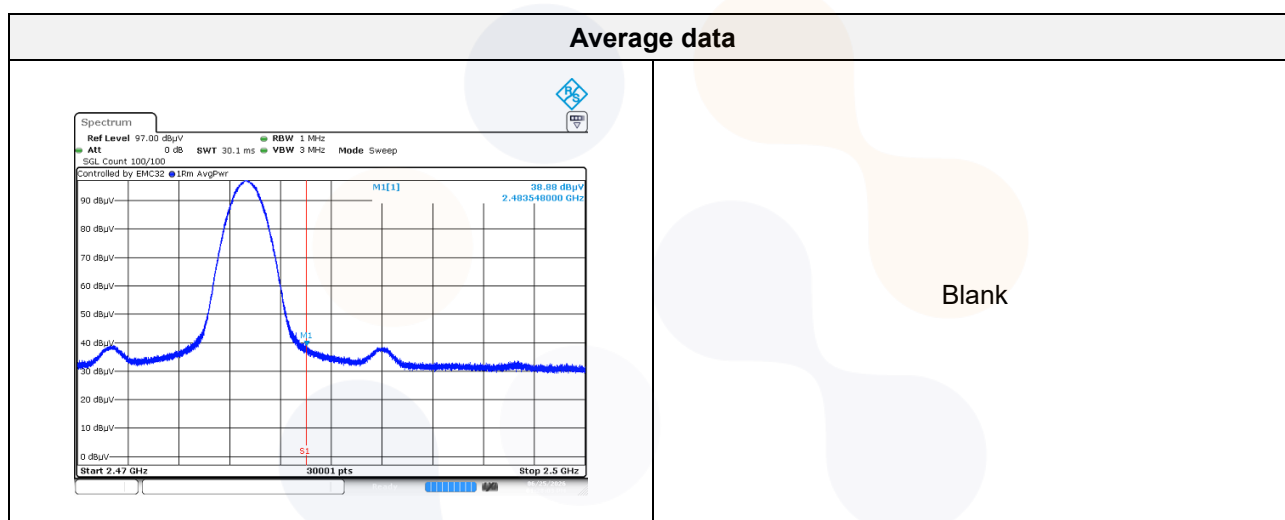


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

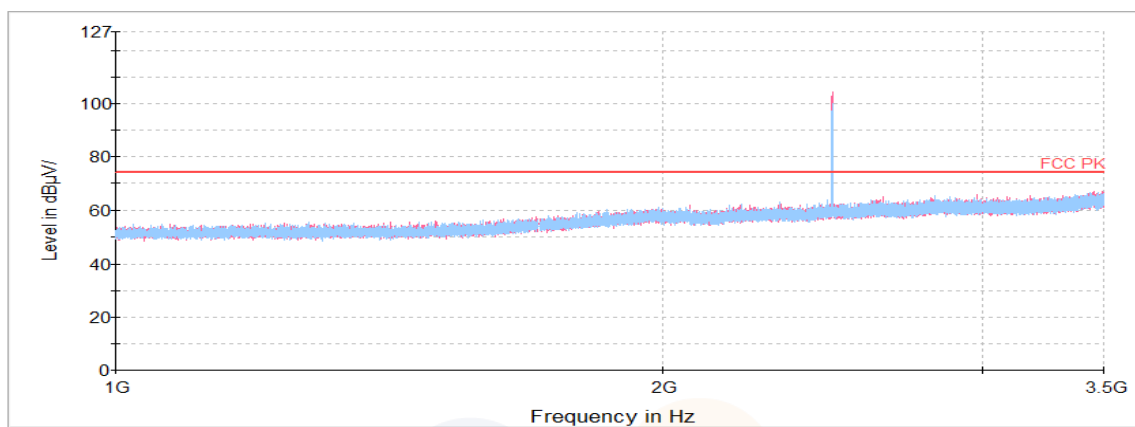


High Channel

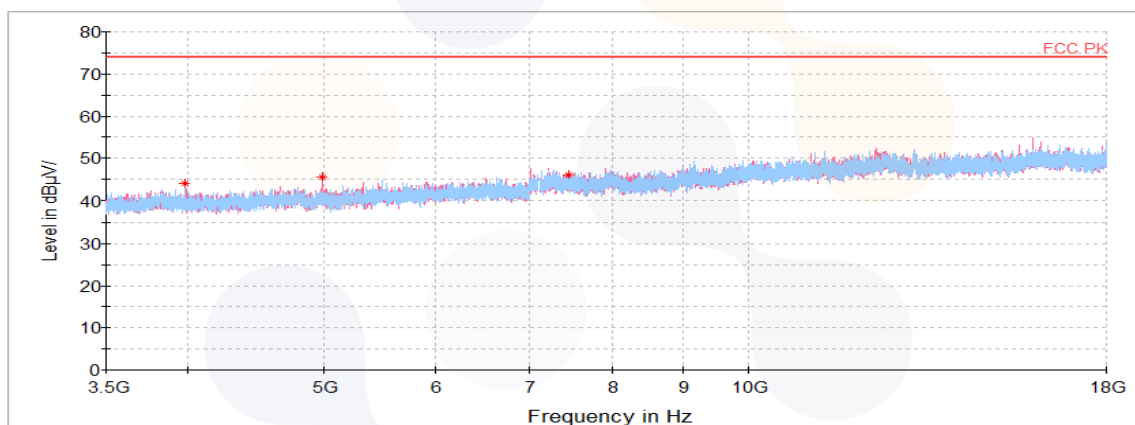
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data								
2 483.55 ¹⁾	V	48.51	32.18	-28.08	-	52.61	74.00	21.39
3 983.33 ¹⁾	V	55.99	33.19	-45.24	-	43.94	74.00	30.06
4 994.47 ¹⁾	V	56.35	34.10	-44.89	-	45.56	74.00	28.44
7 458.50 ¹⁾	V	53.69	35.69	-43.46	-	45.92	74.00	28.08
Average Data								
2 483.55 ¹⁾	V	38.88	32.18	-28.08	2.00	44.98	54.00	9.02



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



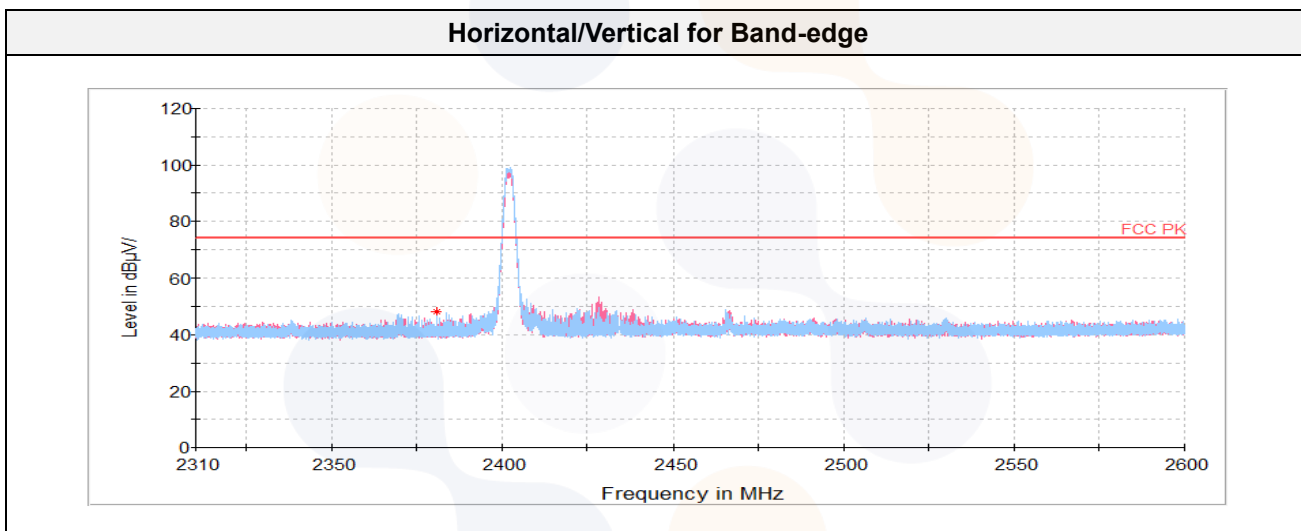
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



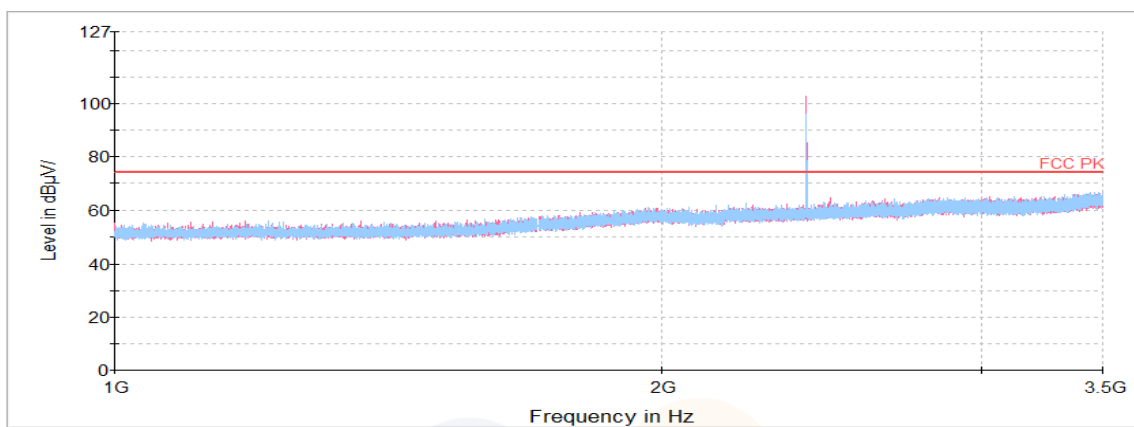
2 Mbits/s(255 Bytes)

Low Channel

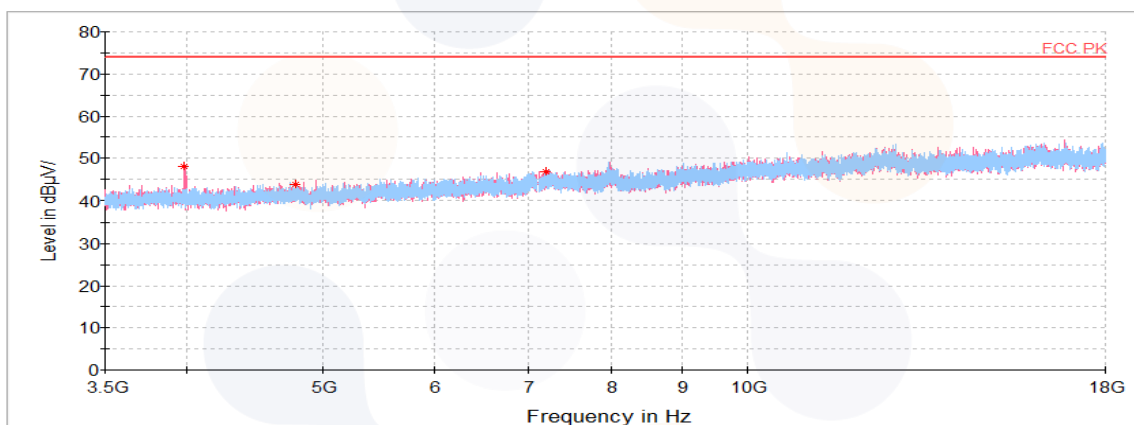
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data								
2 380.88 ¹⁾	V	44.77	32.08	-28.49	-	48.36	74.00	25.64
3 987.68 ¹⁾	V	60.12	33.19	-45.24	-	48.07	74.00	25.93
4 784.70 ¹⁾	H	54.83	33.97	-44.96	-	43.84	74.00	30.16
7 200.40	V	54.77	35.64	-43.61	-	46.80	74.00	27.20
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 3.5 GHz



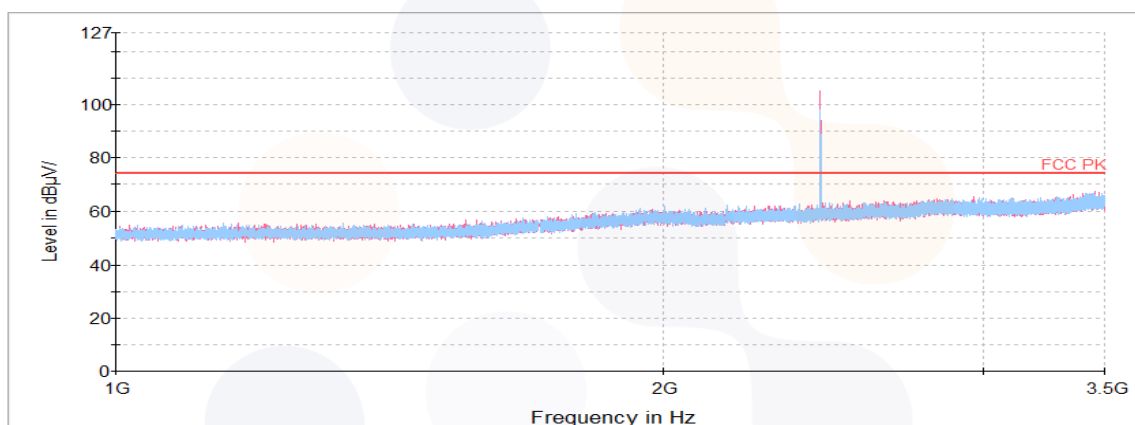
Horizontal/Vertical for 3.5 GHz ~ 18 GHz



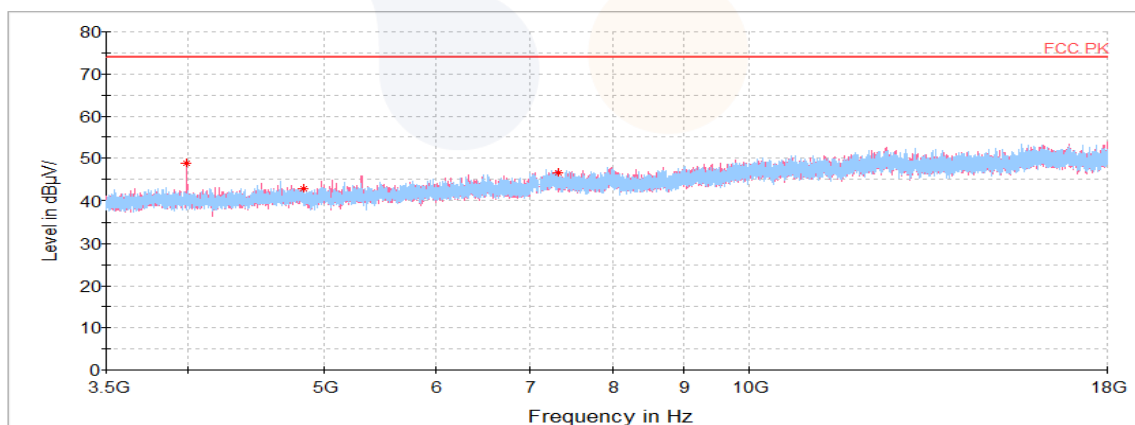
Middle Channel

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data								
3 989.13 ¹⁾	V	60.97	33.19	-45.24	-	48.92	74.00	25.08
4 833.52 ¹⁾	V	53.77	34.00	-44.96	-	42.81	74.00	31.19
7 320.27 ¹⁾	H	54.36	35.66	-43.54	-	46.48	74.00	27.52
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz

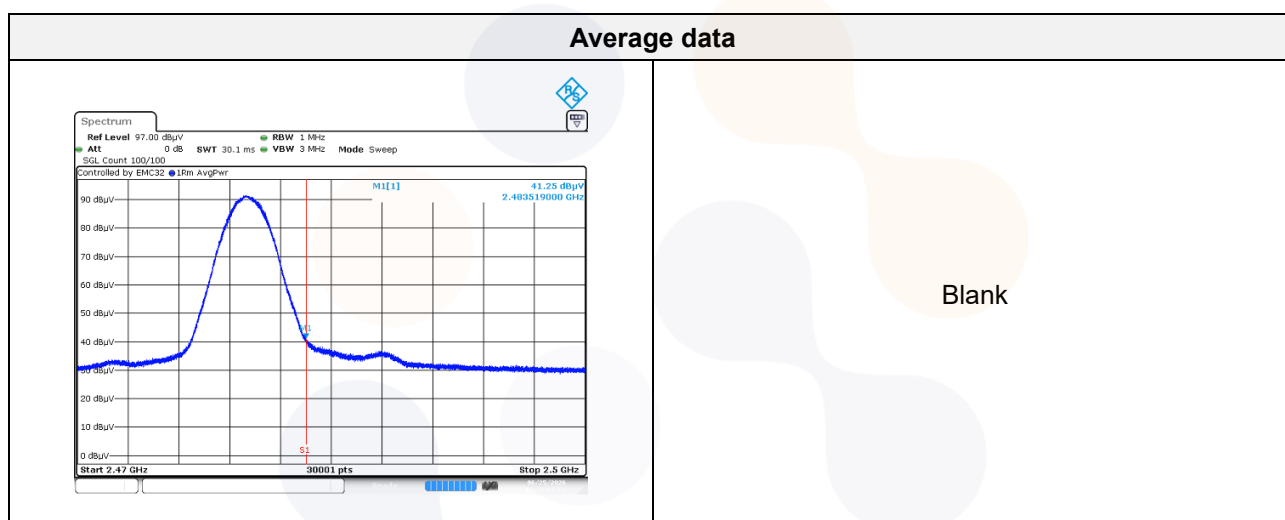


Horizontal/Vertical for 3.5 GHz ~ 18 GHz

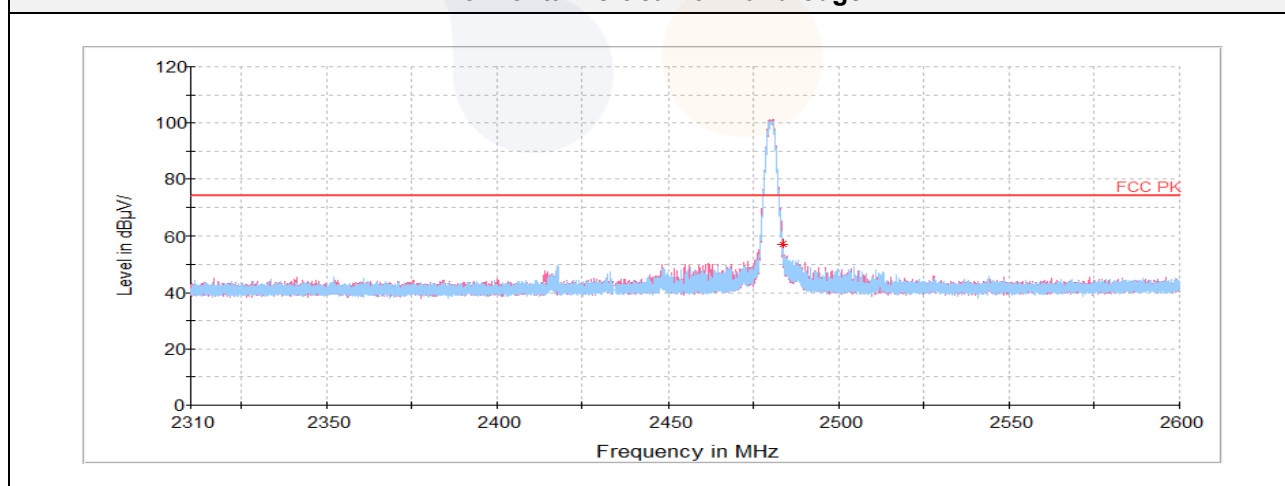


High Channel

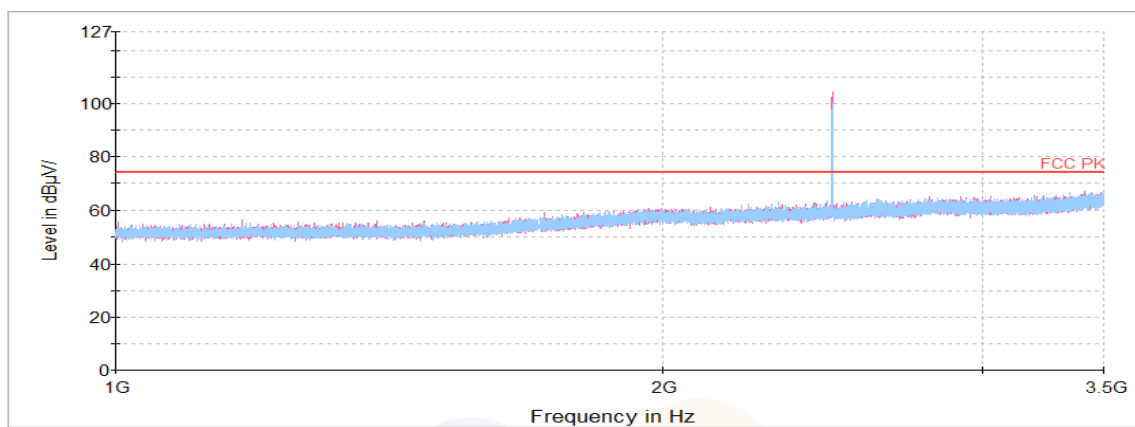
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data								
2 483.52 ¹⁾	V	53.14	32.18	-28.08	-	57.24	74.00	16.76
3 997.83 ¹⁾	V	56.94	33.20	-45.25	-	44.89	74.00	29.11
4 960.15 ¹⁾	H	53.79	34.08	-44.94	-	42.93	74.00	31.07
7 445.45 ¹⁾	H	54.38	35.69	-43.46	-	46.61	74.00	27.39
Average Data								
2 483.52 ¹⁾	V	41.25	32.18	-28.08	2.40	47.75	54.00	6.25



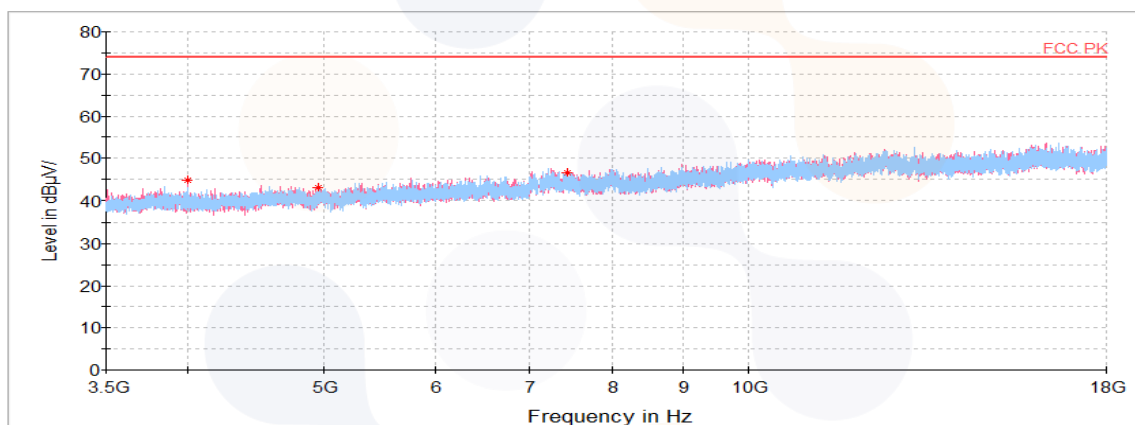
Horizontal/Vertical for Band-edge



Horizontal/Vertical for 1 GHz ~ 3.5 GHz

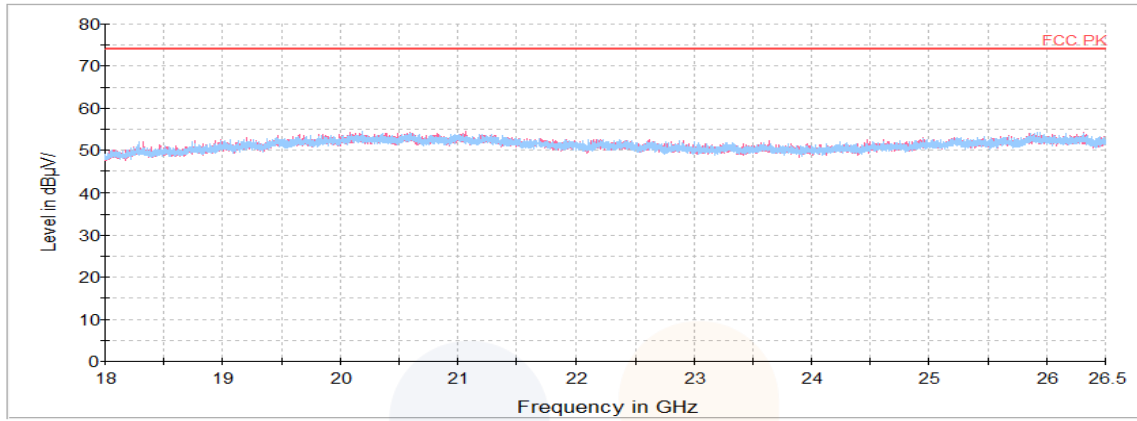


Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Test results (Above 18 GHz) – Worst case: 2 Mbits/s(255 Bytes) 2 440 MHz

Horizontal/Vertical for 18 GHz ~ 26.5 GHz

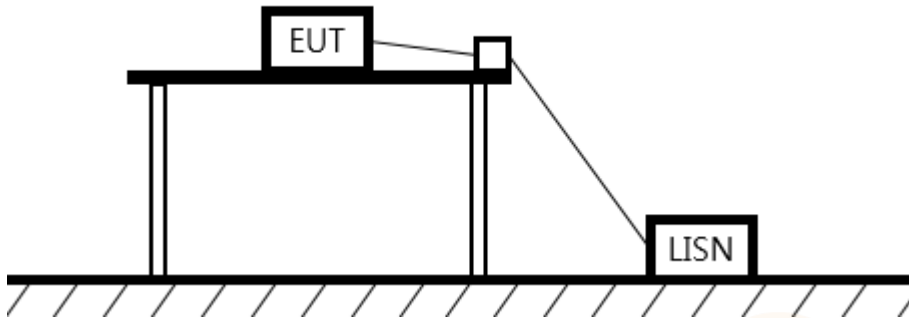


Note:

The Worst case was based on the lowest margin condition considering Harmonic and Spurious Emission.

6.3. AC Conducted Emission

Test setup



Limit

According to 15.207(a),

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

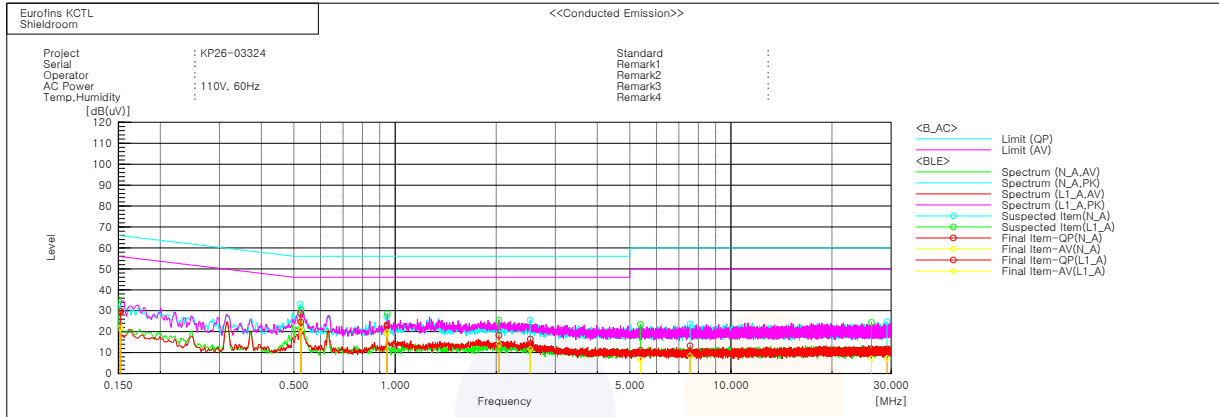
Frequency of Emission (MHz)	Conducted limit (dB μ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

Test results

Worst case: 2 MBits/s(255 Bytes) 2 402 MHz



Final Result

--- N_A Phase ---									
No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]
1	0.15242	19.2	12.0	10.4	29.6	22.4	65.9	55.9	36.3
2	0.52325	18.2	14.0	10.7	28.9	24.7	56.0	46.0	27.1
3	0.94622	12.8	8.8	10.3	23.1	19.1	56.0	46.0	32.9
4	2.52853	6.1	1.3	10.3	16.4	11.6	56.0	46.0	39.6
5	7.55639	2.7	-2.1	10.5	13.2	8.4	60.0	50.0	46.8
6	29.15375	0.1	-4.4	11.6	11.7	7.2	60.0	50.0	48.3

--- L1_A Phase ---									
No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]
1	0.15163	19.4	11.0	10.4	29.8	21.4	65.9	55.9	36.1
2	0.52409	14.0	10.2	10.6	24.6	20.8	56.0	46.0	31.4
3	0.94554	12.4	9.5	10.3	22.7	19.8	56.0	46.0	33.3
4	2.03732	7.8	3.8	10.3	18.1	14.1	56.0	46.0	37.9
5	5.37668	0.6	-3.9	10.4	11.0	6.5	60.0	50.0	49.0
6	26.19321	0.2	-4.4	11.5	11.7	7.1	60.0	50.0	48.3

7. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Power Sensor	R&S	NRP-Z81	1137.9009.02-106224-tg	27.08.10*
Attenuator	API Inmet	40AH2W-10	12	27.04.27
Spectrum Analyzer	R&S	FSV40	100988	27.04.06
Amplifier	SONOMA INSTRUMENT	310N	421910	27.07.06*
Bi-log Antenna	Teseq GmbH	CBL 6112D	61521	26.12.11
Loop Antenna	R&S	HFH2-Z2	100355	27.06.29*
Vector Signal Generator	R&S	SMBV100A	257566	27.07.06*
Horn antenna	ETS.lindgren	3117	00251528	27.01.23
Horn antenna	ETS.lindgren	3116	00086635	27.01.20
Amplifier	C&K Technologies, Inc.	BZR-0050400-551028-252525	27736	27.04.27
Amplifier	C&K Technologies, Inc.	BZRT-00504000-481055-382525	35244-35243	27.06.02
Attenuator	Pasternack	PE7090-10	1928	27.01.12
High pass Filter	WT	WT-A1699-HS	WT160411001	27.04.23
Spectrum Analyzer	R&S	FSV40	100989	27.07.07*
Signal Generator	R&S	SMB100A	176206	27.01.15
TWO-LINE-V-NETWORK	R&S	ENV216	101584	27.03.24
EMI TEST RECEIVER	R&S	ESCI3	101428	27.08.11*
Antenna Mast	Innco Systems	MA4640-XP-ET	MA4000/396/30810213/L	N/A
Controller	Innco Systems	CO3000	1175/45850319/P	N/A
Controller	INNCO SYSTEMS	CO3000	1442/54370322/P	N/A
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	AM002	N/A
Turn Device	INNCO SYSTEMS	DS1200-S-1t	0001	N/A

*This equipment was calibrated during the test period, and was used after calibration.

End of test report