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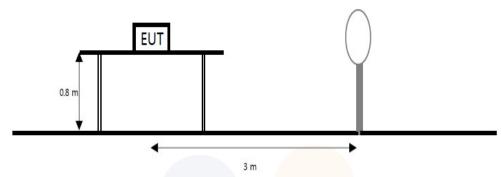
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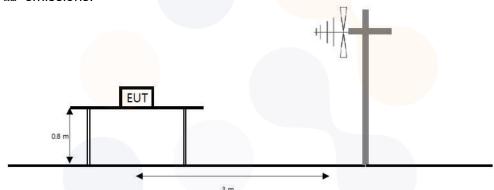


7.4. Spurious Emission, Band Edge and Restricted bands Test setup

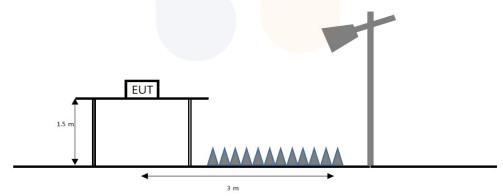
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



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



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



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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 (Mb)	Field strength (µV/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 Mb, 76–88 Mb, 174–216 Mb or 470–806 Mb. However, operation within these frequency bands is permitted under other sections of this part, e.g., Section15.231 and 15.241.

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

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

Only spurious chiissions	are permitted in any or th	c requeries baries listed	
MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 41 <mark>0</mark>	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 Mb, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasipeak detector. Above 1 000 Mb, 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.

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Test procedure

ANSI C63.10-2013

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 ≥ (3×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 Mb to 30 Mb	9 kHz to 10 kHz			
30 Mb to 1 000 Mb	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 ≥ 98%), then the average emission levels shall be measured using the following method (with EUT transmitting continuously):

- 1. RBW = 1 Mb (unless otherwise specified).
- 2. VBW ≥ (3×RBW).
- 3. Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ (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 $\,\mathrm{d}B$ 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 Mb (unless otherwise specified).
- 4. $VBW \ge [3 \times RBW]$.
- 5. Detector = RMS (power averaging), if [span / (# of points in sweep)] ≤ (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):

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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 ≥ 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 Mb, extrapolation factor of 40 dB/decade of distance. F_d = 40log(D_m/D_s) f ≥30 Mb, extrapolation factor of 20 dB/decade of distance. F_d = 20log(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.
- 7. Below 30 Mb 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."

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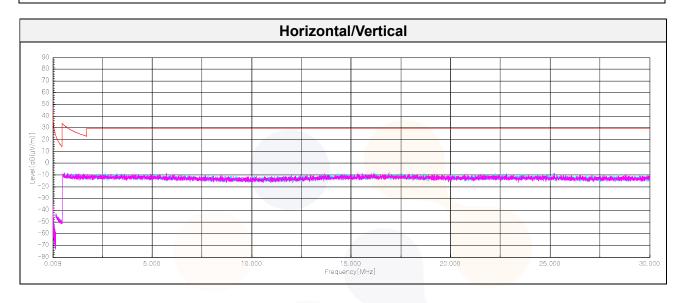


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Test results (Below 30 贮) - Worst case: 1 MBits/s(37 Bytes) 2 440 贮

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									
	No spurious emissions were detected within 20 dB of the limit.									

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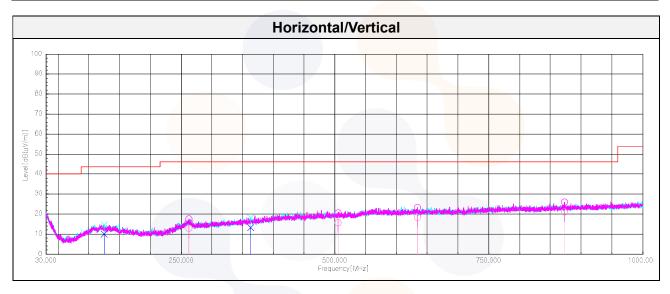
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Test results (Below 1 000 脏) -Worst case: 1 MBits/s(37 Bytes) 2 440 脏

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								
124.58 ¹⁾	V	23.20	17.90	-31.32	-	9.78	43.50	33.72
262.68 ¹⁾	Н	23.70	20.07	-30.98	-	12.79	46.00	33.21
362.71	V	23.40	20.70	-30.87	-	13.23	46.00	32.77
505.42	Н	22.80	23.40	-30.63	-	15.57	46.00	30.43
634.19	Н	23.80	24.90	-30.43	-	18.27	46.00	27.73
873.29	Н	23.90	26.30	-29.13	-	21.07	46.00	24.93



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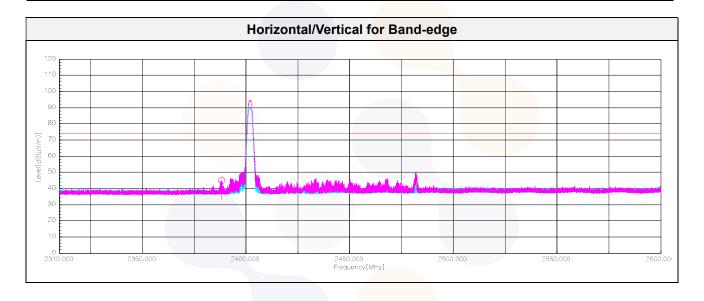
o-1021 FAX. 62-500 <u>www.kctl.co.kr</u> Report No.: KR24-SRF0056 Page (28) of (44)



Test results (Above 1 000 贮)_1 MBits/s(37 Bytes)

Low Channel

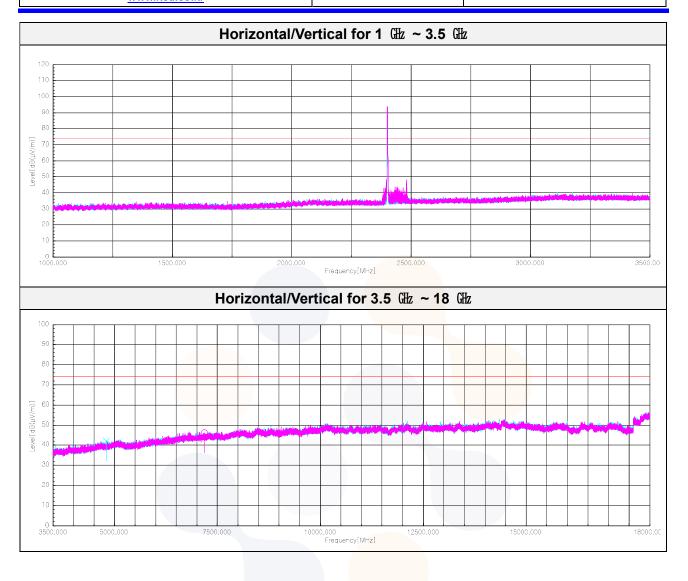
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCF	Result	Limit	Margin								
[MHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]								
Peak data																
2 388.43 ¹⁾	Н	48.20	26.98	-30.36	-	44.82	74.00	29.18								
4 795.33 ¹⁾	V	53.70	32.08	-43.85	-	41.93	74.00	32.07								
7 188.32	Н	50.80	36.65	-41.25	-	46.20	74.00	27.80								
Average Data																
		No spurio	ıs emissions	were detecte	d within 20	dR of the lim	No spurious emissions were detected within 20 dB of the limit									



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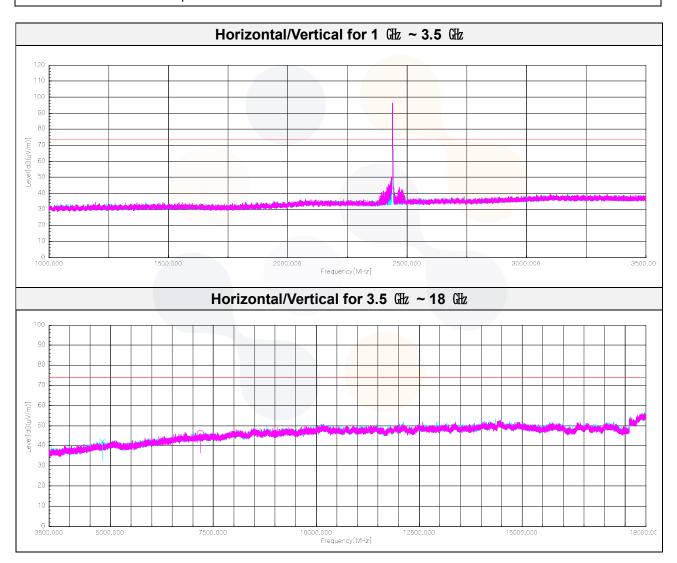
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Middle Channel

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									
4 978.52 ¹⁾	Н	53.40	32.71	-43.16	-	42.95	74.00	31.05	
7 267.10 ¹⁾ H 51.90 36.83 -41.33 - 47.40 74.00 26.60									
Average Data									
		No spuriou	s emissions	s were detecte	d within 20	dB of the lim	it.		



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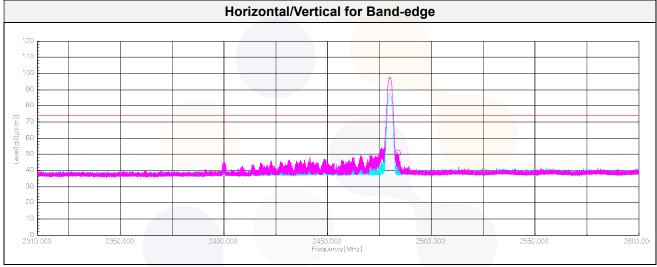
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High Channel

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									
2 483.59 ¹⁾	Н	53.40	27.50	-30.26	-	50.64	74.00	23.36	
4 958.70 ¹⁾	V	51.60	32.63	-43.20	-	41.03	74.00	32.97	
7 441.58 ¹⁾	V	50.50	36.32	-41.34	-	45.48	74.00	28.52	
Average Data									
No spurious emissions were detected within 20 dB of the limit.									

Horizontal/Vertical for Band-edge

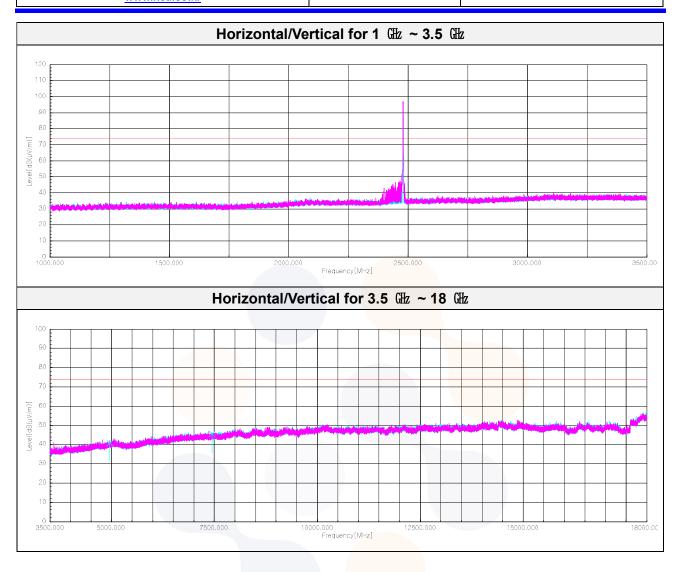


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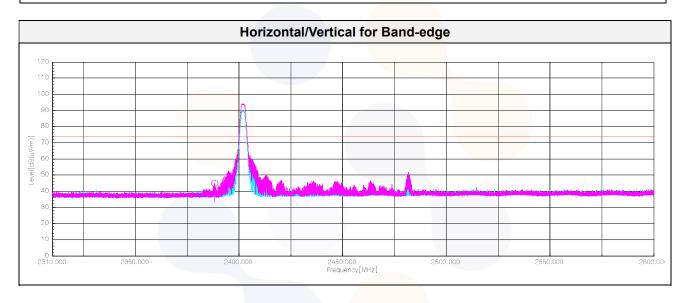
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2 MBits/s(37 Bytes)

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									
2 388.24 ¹⁾	Н	48.10	26.98	-30.37	-	44.71	74.00	29.29	
4 816.60 ¹⁾ H 53.60 32.30 -43.78 -							74.00	31.88	
7 205.72 H 50.00 36.72 -41.32 - 45.40 74.00 28.6								28.60	
Average Data									
	No spurious emissions were detected within 20 dB of the limit.								

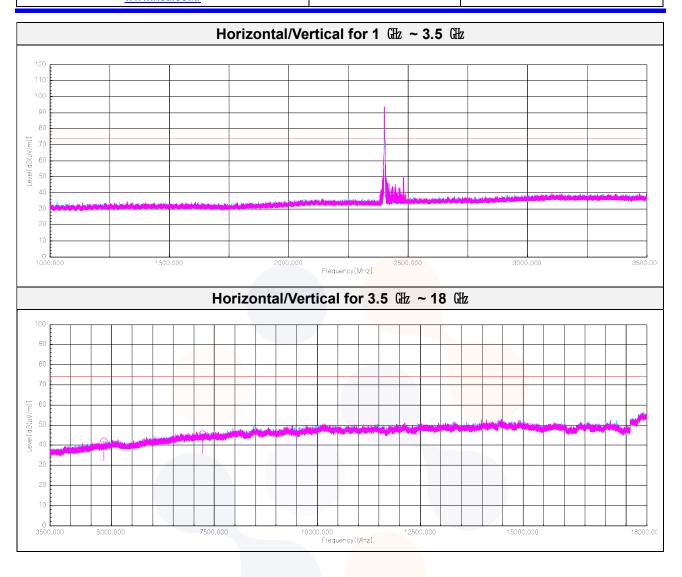


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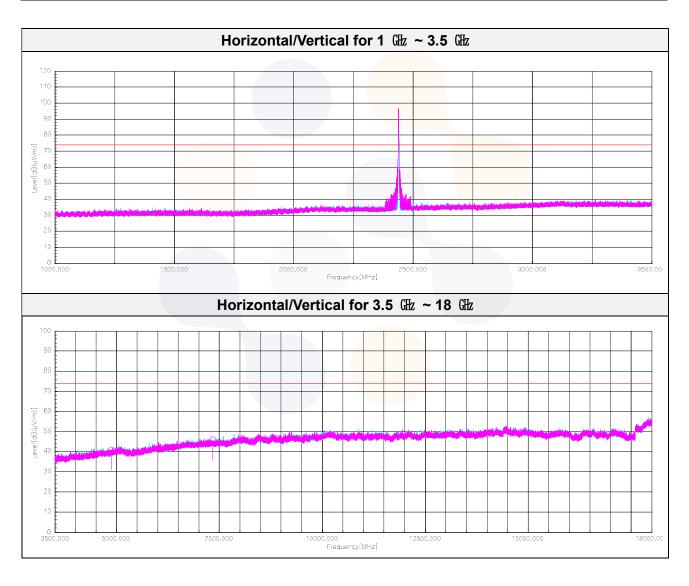
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Middle Channel

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									
4 879.92 ¹⁾	Н	51.60	32.52	-43.49	-	40.63	74.00	33.37	
7 339.12 ¹⁾	Н	50.70	36.62	-41.30	-	46.02	74.00	27.98	
Average Data									
No spurious emissions were detected within 20 dB of the limit.									



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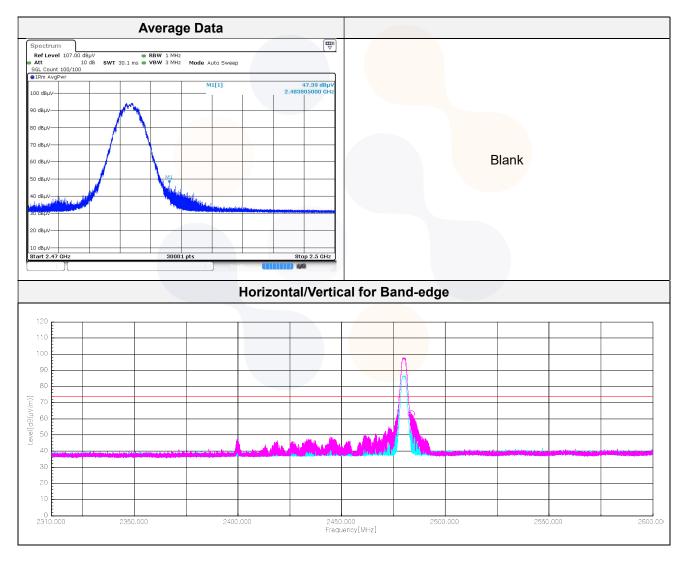
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High Channel

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								
2 483.81 ¹⁾	Н	65.90	27.50	-30.26	-	63.14	74.00	10.86
4 950.97 ¹⁾	Н	51.70	32.60	-43.21	-	41.09	74.00	32.91
7 429.98 ¹⁾	Н	51.80	36.34	-41.37	-	46.77	74.00	27.23
Average Data								
2 483.81 ¹⁾	Н	47.39	27.50	-30.26	5.07	49.70	54.00	4.30

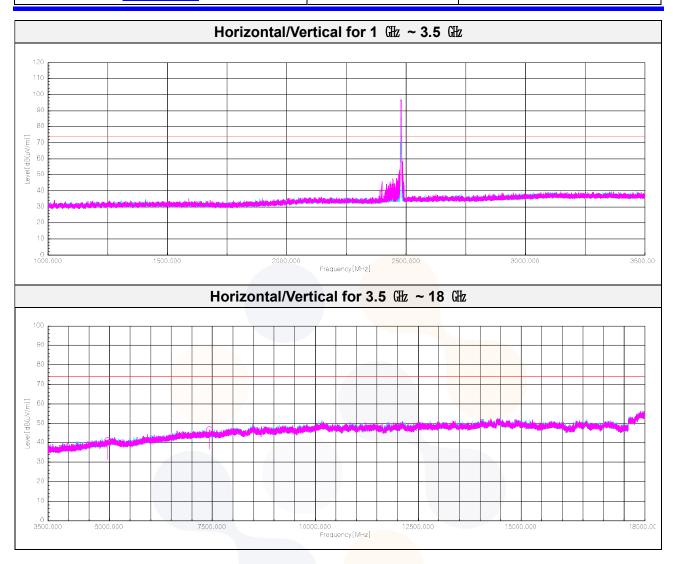


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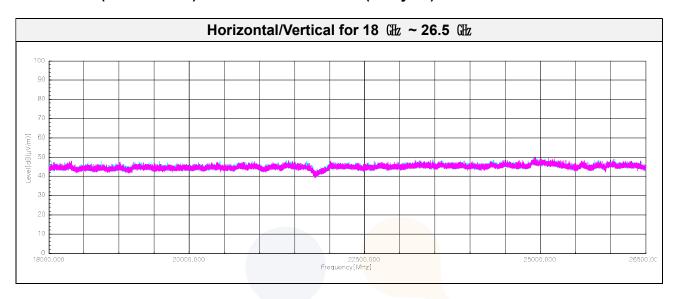
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Test results (Above 18 趾) - Worst case: 2 MBits/s(37 Bytes) 2 480 址



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

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7.5. Conducted Spurious Emission

<u>lest setup</u>	_		_	
EUT		Attenuator		Spectrum analyzer
LOT		Allendator		Spectrum analyzer

<u>Limit</u>

According to §15.247(d),

In any 100 kllz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operation, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kllz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation specified in §15.209(a) is not required. In addition, radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limit: 20 dBc

Test procedure

ANSI C63.10-2013 - Section 11.11.3 KDB 558074 D01 v05 - Section 8.5

Test settings

Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW \geq [3 x RBW]
- 4) Detector = peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

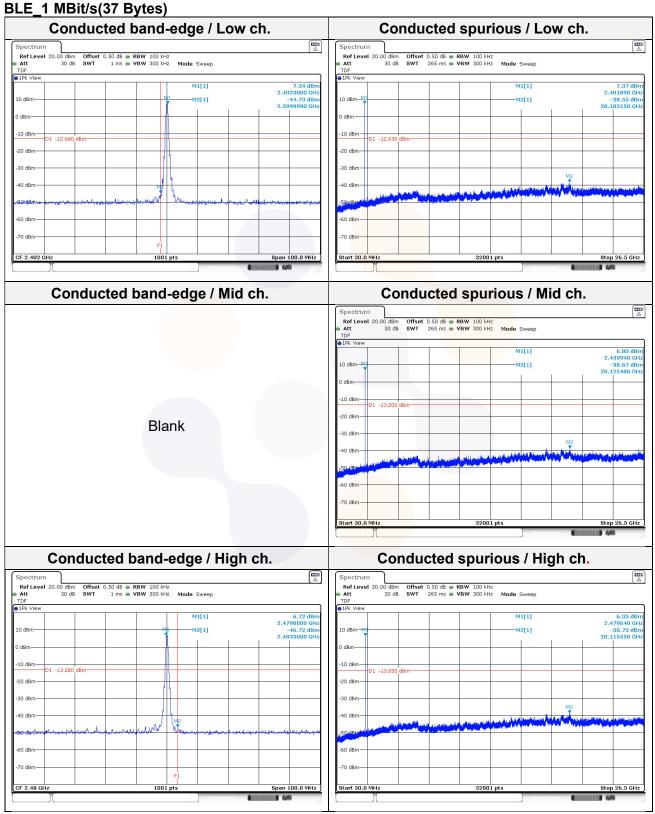
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Test results



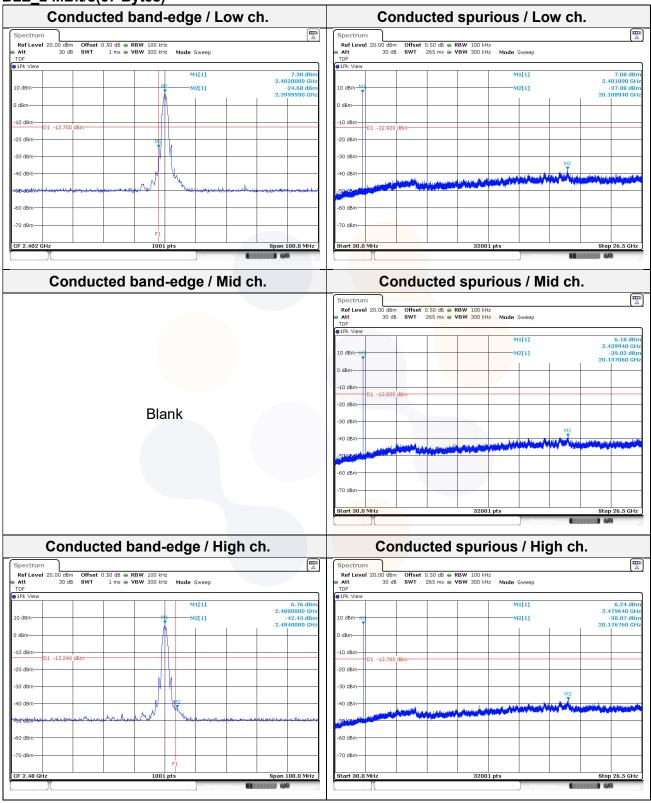
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BLE_2 MBit/s(37 Bytes)



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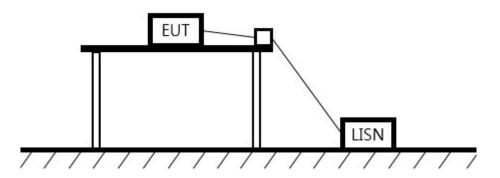
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7.6. AC Conducted emission

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 ½ to 30 ½, 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.

Fraguency of Emission (Mile)	Conducted limit (dBµV/m)		
Frequency of Emission (ឈ)	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 $50\Omega/50\mu H$ 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 Mb to 30 Mb.
- 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.

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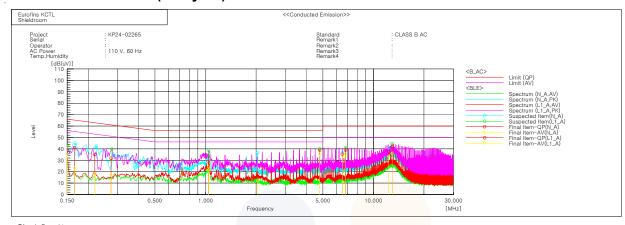
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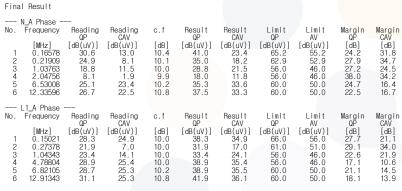
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Test results

Worst case: 1 MBits/s(37 Bytes) 2 440 Mb





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8. Measurement equipment

o. Measurement equipment						
Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date		
Spectrum Analyzer	R&S	FSV40-N	101462	24.10.12		
Signal Generator	R&S	SMB100A	176206	25.01.18		
DC Power Supply	AGILENT	E3632A	MY40007371	24.04.27		
Attenuator	API Inmet	40AH2W-10	11	24.05.03		
Attenuator	R&S	DNF Dämpfungsglied 10 dB in N-50 Ohm	31211	24.04.25		
Power Sensor	R&S	NRP-Z81	1137.9009.02- 106224-tg	24.09.12		
Spectrum Analyzer	R&S	FSV40	100988	24.07.03		
PSA Spectrum Analyzer	Agilent	E4440A	MY44303500	24.07.04		
EMI TEST RECEIVER	R&S	ESCI3	101408	24.08.18		
TWO-LINE V - NETWORK	R&S	ENV216	101358	24.09.27		
Broadband PreAmplifier	SCHWARZBECK	BBV9718D	53	25.01.19		
Low Noise Amplifier	TESTEK	TK-PA18H	220123-L	24.10.12		
Low Noise Amplifier	TESTEK	TK-PA1840H	220234-L	24.10.17		
Amplifier	SONOMA INSTRUMENT	310N	421910	24.10.12		
Bilog Antenna	Teseq GmbH	CBL 6112D	61521	24.11.17		
Loop Antenna	R&S	HFH2-Z2	100355	24.08.10		
Horn Antenna	SCHWARZBECK	BBHA9120D	2764	24.10.18		
Horn Antenna	SCHWARZBECK	BBHA9170	1266	24.10.16		
High Pass Filter	Wainwright Instruments GmbH	WHKX12-2805-3000- 18000-40SS	SN59	24.10.16		
High Pass Filter	QOTANA TECHNOLOGIES	DBHF058004000A	23041800061	24.07.10		

End of test report