

FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10:2013 TEST REPORT

For

HD Action camera

Model: DVS8Q9

Data Applies To: DVSD03

Issued for

DXG Technology Corp.

15FL.,NO.4,SEC.3,MING-CHUAN EAST ROAD,TAIPEI,TAIWAN,R.O.C.

Issued by

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Issued Date: January 21, 2016



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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	01/21/2016	Initial Issue	All Page 31	Vera Hsu

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1. TEST REPORT CERTIFICATION

Applicant : DXG Technology Corp.
Address : 15FL.,NO.4,SEC.3,MING-CHUAN EAST
ROAD,TAIPEI,TAIWAN,R.O.C.
Equipment Under Test : HD Action camera
Model : DVS8Q9
Data Applies To : DVSD03
Tested Date : November 12 ~ December 24, 2015

APPLICABLE STANDARD	
Standard	Test Result
FCC Part 15 Subpart C AND ANSI C63.10:2013	PASS

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:



Jacky Chen
Section Manager

Reviewed by:



Sb. Lu
Sr. Engineer

2. EUT DESCRIPTION

Product Name	HD Action camera
Model Number	DVS8Q9
Data Applies To	DVSD03
Identify Number	T151112D10
Received Date	November 12, 2015
Frequency Range	2403MHz to 2479MHz
Transmit Power	92.86dBμV/m @ 3m
Channel Spacing	1MHz
Channel Number	77 Channels
Type of Modulation	GFSK
Antenna Type	FPCB Antenna, Antenna Gain : 2.95dBi
Power Rating	3.7Vdc, 1130mAh, 4.18Wh (For Battery) 5Vdc (For Charging)
Test Voltage	120Vac, 60Hz
I/O Port	EUT: Micro HDMI Port × 1, Mini HDMI Port × 1, Micro USB Port × 1 Micro SD Card Port × 1 Panel: Mini HDMI Connector × 1
Signal Cable	Shielded HDMI cable, 1m × 1 (Detachable), with two ferrite core

The difference of the series model

Model Number	Difference
DVS8Q9	8M pixels
DVSD03	16M pixels

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. For more details, please refer to the User's manual of the EUT.
3. This submittal(s) (test report) is intended for FCC ID: RD2RWD03001 filing to comply with Section 15.207, 15.209 and 15.249 of the FCC Part 15, Subpart C Rules.
4. The model DVS8Q9 was considered the main model for testing.

3. DESCRIPTION OF TEST MODES

The EUT had been tested under operating condition.

Conducted Emission / Radiated Emission Test (Below 1 GHz)

1. The following test modes were scanned during the preliminary test:

No.	Pre-Test mode
1	TX Mode

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test mode		
Emission	Radiated Emission	Mode 1
	Conducted Emission	

Remark: Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

Radiated Emission Test (Above 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

Channel	Frequency (MHz)
Low	2403
Middle	2440
High	2479

Bandedge Measurement:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Channel	Frequency (MHz)
Low	2403
High	2479

Remark: The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10:2013, FCC CFR 47, 15.207, 15.209 and 15.249.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.989-1, Wenshan Rd., Shangshan Village,
Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.10:2013 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan	TAF
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The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	INDUSTRY CANADA
Japan	VCCI
Taiwan	BSMI
USA	FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

Remark: FCC Designation Number TW1027.

5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 30 to 1000 MHz	+/- 3.97
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 1 to 18GHz	+/- 3.58
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_C) / Radiated Emission, 26 to 40 GHz	+/- 3.81
Conducted Emission (Mains Terminals), 9kHz to 30MHz	+/- 2.48

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.
1	Notebook PC	HP	ProBook 4421s	CNF03242PJ

No.	Signal Cable Description
1	Shielded USB cable, 1.5m × 2

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

1. EUT & peripherals setup diagram is shown in appendix setup photos.
2. Power on all equipments.
3. TX Mode:
 - ⇒ **Power control:**
 - Channel Low (2403MHz) Power set -18
 - Channel Mid (2440MHz) Power set -18
 - Channel High (2479MHz) Power set -18
4. All of the functions are under run.
5. Start test.

7. FCC PART 15.249 REQUIREMENTS

7.1 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (a) except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Remark:

1. ¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

2. ² Above 38.6

(2) According to § 15.205 (b) except as provided in paragraphs (d) and (e), 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 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 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.

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

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(KHz)	300
0.490 - 1.705	24000/F(KHz)	30
1.705 - 30.0	30	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

Remark: **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., Sections 15.231 and 15.241.

- (4) According to § 15.209 (b) in the emission table above, the tighter limit applies at the band edges.
- (5) According to § 15.249 (a) Except as provided in paragraph (b) of this section, the field strength of emission from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (millivolts/meter)	Measurement Distance of Harmonics (microvolts/meter)
902 - 928	50	500
2400 - 2483.5	50	500
5725 - 5875	50	500
24000 - 24250	250	2500

TEST EQUIPMENT

Radiated Emission / 966Chamber_C

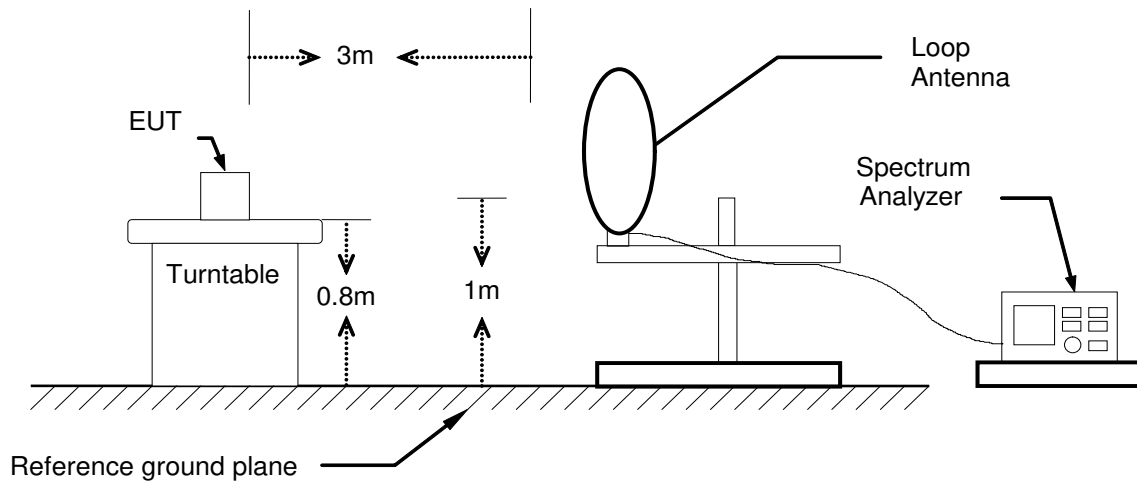
Name of Equipment	Manufacture	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY45280064	03/26/2016
EMI Test Receiver	Rohde & Schwarz	ESCI	101387	10/06/2016
Bi-log Antenna	TESEQ	CBL6112D	35404	08/04/2016
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-778	08/09/2016
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078732	07/14/2016
Horn Antenna	COM-POWER	AH-840	03077	12/08/2016
Pre-Amplifier	EMCI	EMC001625	980243	04/12/2016
Pre-Amplifier	COM-POWER	PAM-118A	551043	04/12/2016

Remark: Each piece of equipment is scheduled for calibration once a year.

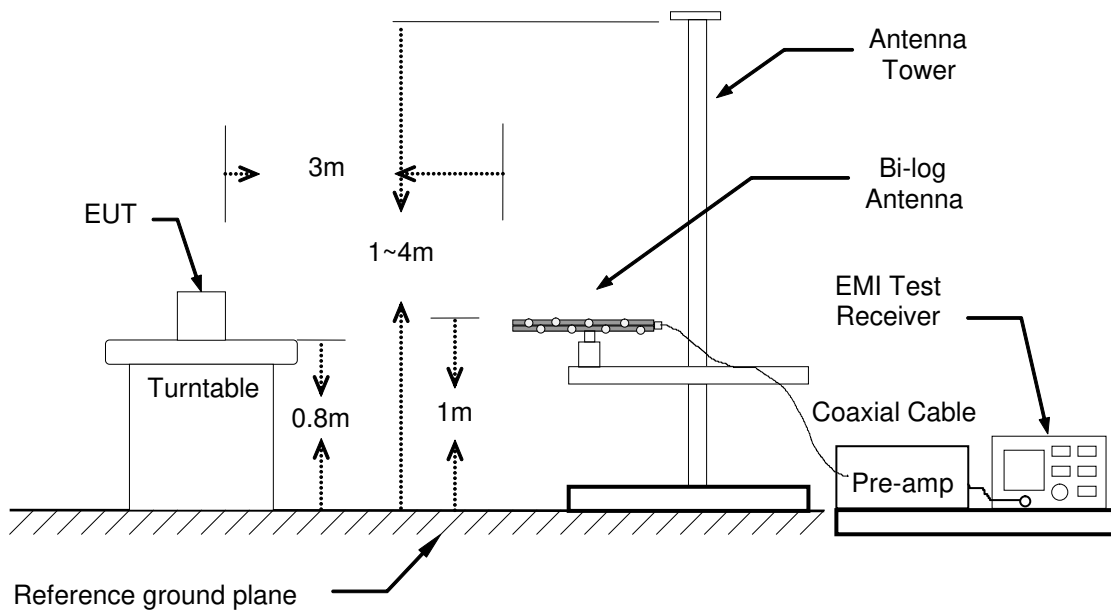
TEST SETUP

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

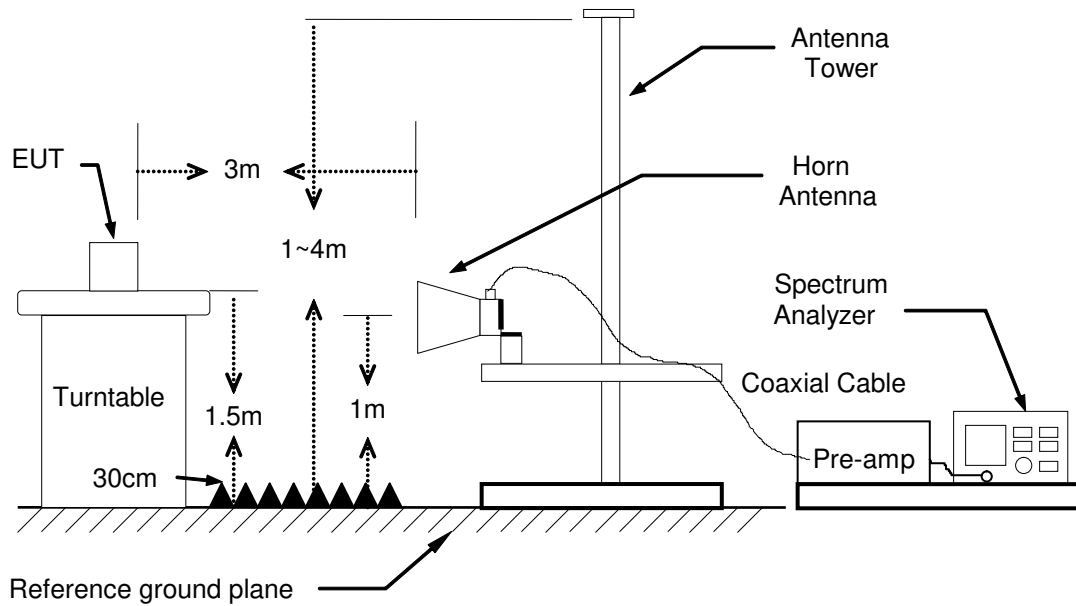
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark :

1. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.*
2. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.*
3. *The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.*

TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

Product Name	HD Action camera	Test By	Rex Chiu
Test Model	DVS8Q9	Test Date	2015/12/23
Test Mode	Mode 1	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
=====								
207.51	57.82	-20.30	37.52	43.50	-5.98	259	100	Peak
224.97	61.93	-19.68	42.25	46.00	-3.75	283	100	Peak
252.13	58.25	-17.24	41.01	46.00	-4.99	274	100	Peak
297.72	58.37	-16.34	42.03	46.00	-3.97	235	100	Peak
450.98	52.74	-12.65	40.09	46.00	-5.91	229	200	Peak
480.08	52.70	-12.21	40.49	46.00	-5.51	46	200	Peak
892.33	45.28	-7.56	37.72	46.00	-8.28	151	100	Peak

966Chamber_C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
=====								
81.41	53.06	-23.36	29.70	40.00	-10.30	143	100	Peak
225.94	55.85	-19.59	36.26	46.00	-9.74	196	200	Peak
297.72	53.55	-16.34	37.21	46.00	-8.79	174	200	Peak
431.58	52.21	-12.95	39.26	46.00	-6.74	143	100	Peak
480.08	51.43	-12.21	39.22	46.00	-6.78	145	100	Peak
527.61	49.59	-11.40	38.19	46.00	-7.81	120	100	Peak

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)
3. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
4. Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).

Above 1 GHz

Product Name	HD Action camera	Test By	Rex Chiu
Test Model	DVS8Q9	Test Date	2015/12/23
Test Mode	TX Mode / CH Low	Temp. & Humidity	25°C, 50%

966Chamber C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
=====								
2016.00	44.89	3.48	48.37	74.00	-25.63	236	100	Peak
2236.00	40.32	3.96	44.28	74.00	-29.72	0	100	Peak
2403.00	87.50	4.31	91.81	94.00	-2.19	2	200	Average
2403.00	88.02	4.31	92.33	114.00	-21.67	2	200	Peak
2488.00	39.64	4.49	44.13	74.00	-29.87	173	200	Peak
4800.00	47.59	-0.33	47.26	74.00	-26.74	133	100	Peak
8265.00	42.29	3.40	45.69	74.00	-28.31	96	200	Peak
12015.00	45.16	8.13	53.29	54.00	-0.71	360	200	Average
12015.00	47.19	8.13	55.32	74.00	-18.68	360	200	Peak

966Chamber C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
=====								
2016.00	40.75	3.48	44.23	74.00	-29.77	234	100	Peak
2288.00	40.85	4.07	44.92	74.00	-29.08	143	200	Peak
2403.00	79.50	4.31	83.81	94.00	-10.19	155	200	Average
2403.00	80.05	4.31	84.36	114.00	-29.64	155	200	Peak
2490.00	40.14	4.50	44.64	74.00	-29.36	336	200	Peak
4800.00	44.71	-0.33	44.38	74.00	-29.62	9	100	Peak
7215.00	44.69	2.69	47.38	74.00	-26.62	319	200	Peak
9615.00	45.03	4.33	49.36	74.00	-24.64	58	200	Peak
12015.00	42.75	8.13	50.88	74.00	-23.12	344	100	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
Margin = Result - Limit
Remark Peak = Result(PK) - Limit(PK)
Remark AVG = Result(AV) - Limit(AV)

Product Name	HD Action camera	Test By	Rex Chiu
Test Model	DVS8Q9	Test Date	2015/12/23
Test Mode	TX Mode / CH Middle	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2016.00	44.76	3.48	48.24	74.00	-25.76	165	100	Peak
2380.00	41.76	4.26	46.02	74.00	-27.98	211	200	Peak
2440.00	87.90	4.39	92.29	94.00	-1.71	2	100	Average
2440.00	88.47	4.39	92.86	114.00	-21.14	2	100	Peak
2492.00	39.85	4.50	44.35	74.00	-29.65	164	100	Peak
4875.00	47.91	-0.06	47.85	74.00	-26.15	133	100	Peak
8295.00	42.14	3.44	45.58	74.00	-28.42	266	200	Peak
12195.00	39.50	8.05	47.55	54.00	-6.45	350	200	Average
12195.00	47.17	8.05	55.22	74.00	-18.78	350	200	Peak

966Chamber_C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2176.00	40.63	3.83	44.46	74.00	-29.54	83	200	Peak
2388.00	42.09	4.28	46.37	74.00	-27.63	142	200	Peak
2440.00	80.80	4.39	85.19	94.00	-8.81	33	200	Average
2440.00	81.35	4.39	85.74	114.00	-28.26	33	200	Peak
2486.00	39.96	4.49	44.45	74.00	-29.55	52	200	Peak
4875.00	43.96	-0.06	43.90	74.00	-30.10	19	200	Peak
7755.00	42.32	2.96	45.28	74.00	-28.72	232	100	Peak
10395.00	42.78	5.68	48.46	74.00	-25.54	10	100	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
Margin = Result – Limit
Remark Peak = Result(PK) – Limit(PK)
Remark AVG = Result(AV) – Limit(AV)

Product Name	HD Action camera	Test By	Rex Chiu
Test Model	DVS8Q9	Test Date	2015/12/23
Test Mode	TX Mode / CH High	Temp. & Humidity	25°C, 50%

966Chamber_C at 3Meter / Horizontal

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2016.00	43.62	3.48	47.10	74.00	-26.90	39	200	Peak
2352.00	41.47	4.20	45.67	74.00	-28.33	179	200	Peak
2479.00	82.80	4.48	87.28	94.00	-6.72	3	100	Average
2479.00	83.32	4.48	87.80	114.00	-26.20	3	100	Peak
2568.00	40.37	4.65	45.02	74.00	-28.98	328	100	Peak
4965.00	48.61	0.26	48.87	74.00	-25.13	230	100	Peak
8805.00	43.32	4.00	47.32	74.00	-26.68	360	200	Peak
12390.00	43.74	7.97	51.71	74.00	-22.29	8	200	Peak

966Chamber_C at 3Meter / Vertical

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
2244.00	41.35	3.97	45.32	74.00	-28.68	153	200	Peak
2380.00	40.53	4.26	44.79	74.00	-29.21	63	200	Peak
2479.00	74.70	4.48	79.18	94.00	-14.82	161	100	Average
2479.00	75.21	4.48	79.69	114.00	-34.31	161	100	Peak
2530.00	39.52	4.58	44.10	74.00	-29.90	347	100	Peak
4965.00	44.85	0.26	45.11	74.00	-28.89	324	200	Peak
7425.00	42.72	2.79	45.51	74.00	-28.49	287	200	Peak
9915.00	44.16	4.79	48.95	74.00	-25.05	20	100	Peak

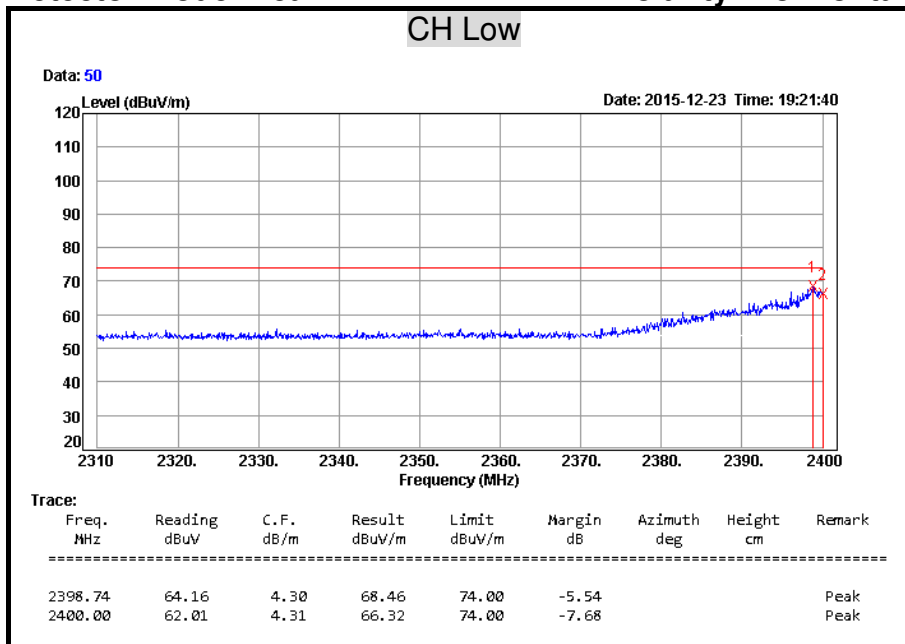
Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor
Margin = Result – Limit
Remark Peak = Result(PK) – Limit(PK)
Remark AVG = Result(AV) – Limit(AV)

Restricted Band Edges

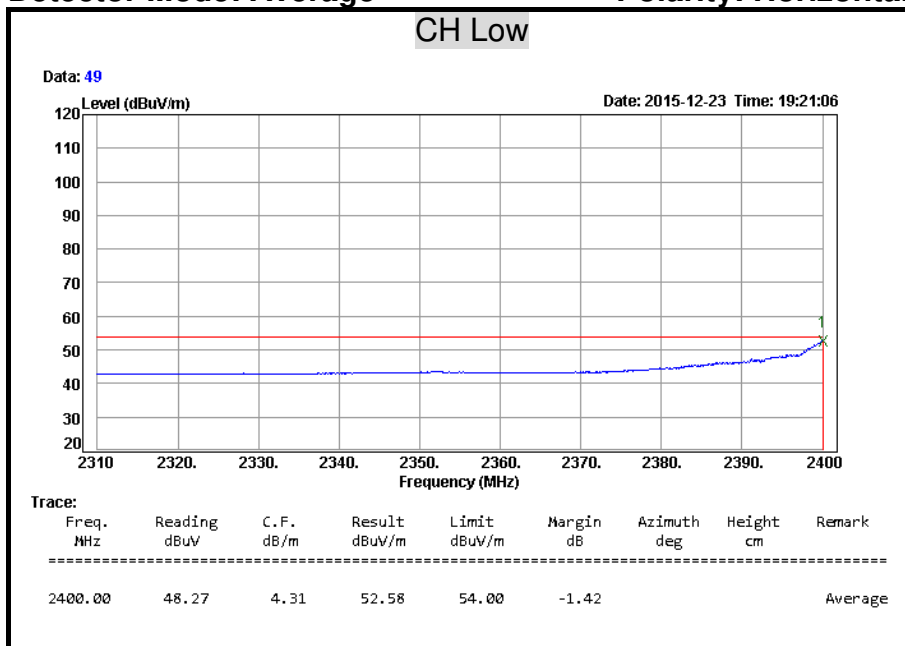
Detector Mode: Peak

Polarity: Horizontal



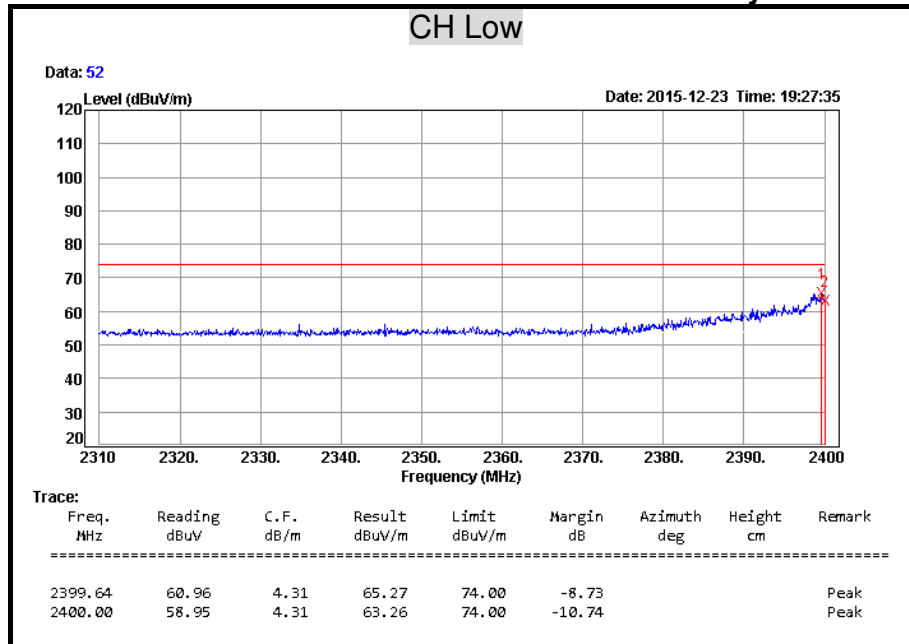
Detector Mode: Average

Polarity: Horizontal



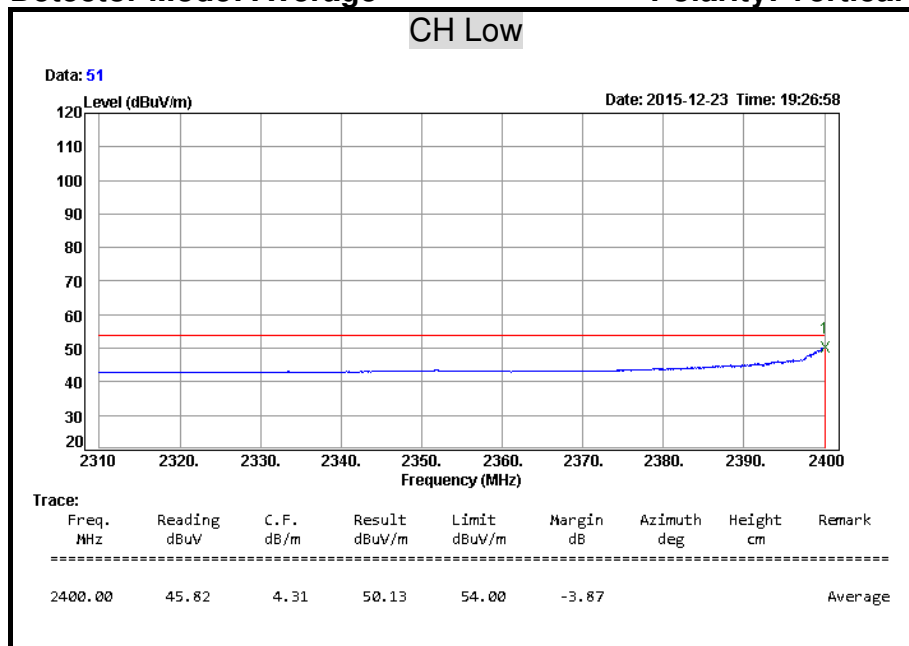
Detector Mode: Peak

Polarity: Vertical



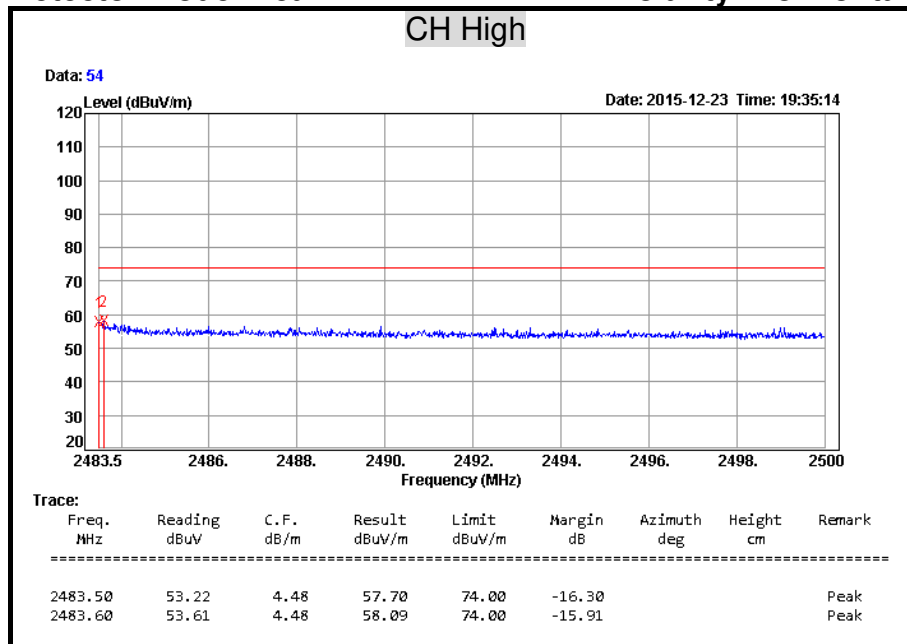
Detector Mode: Average

Polarity: Vertical



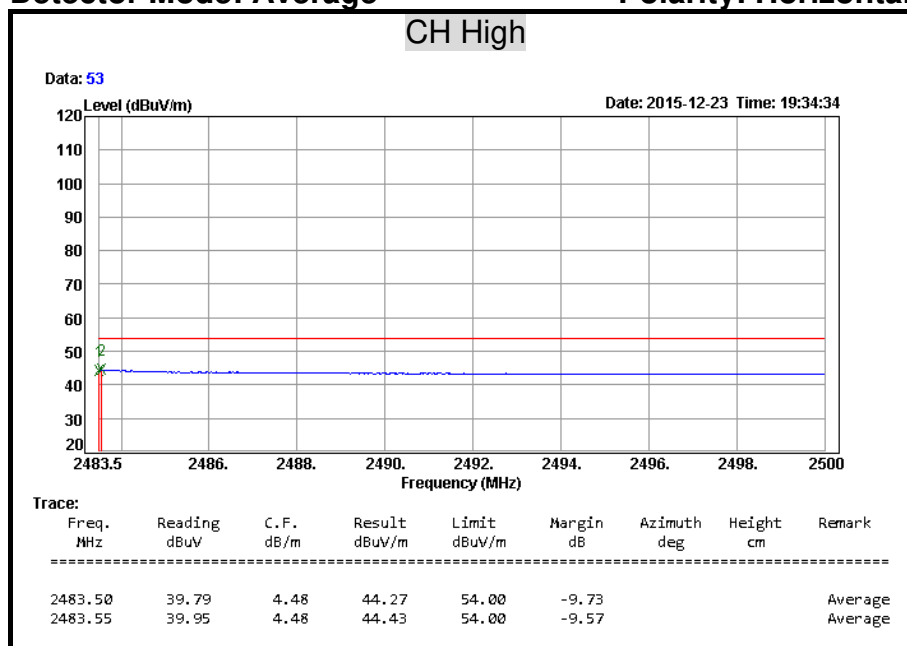
Detector Mode: Peak

Polarity: Horizontal



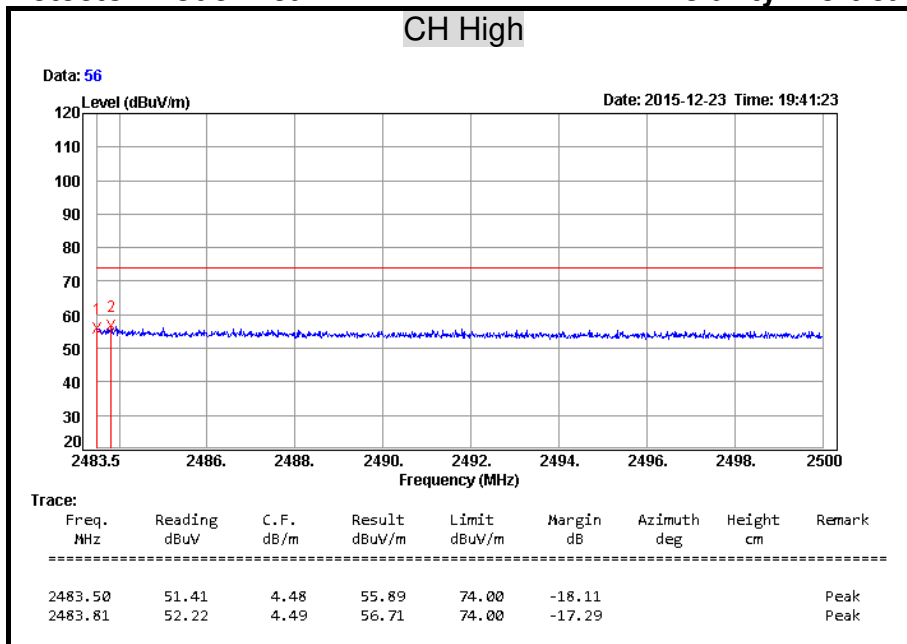
Detector Mode: Average

Polarity: Horizontal



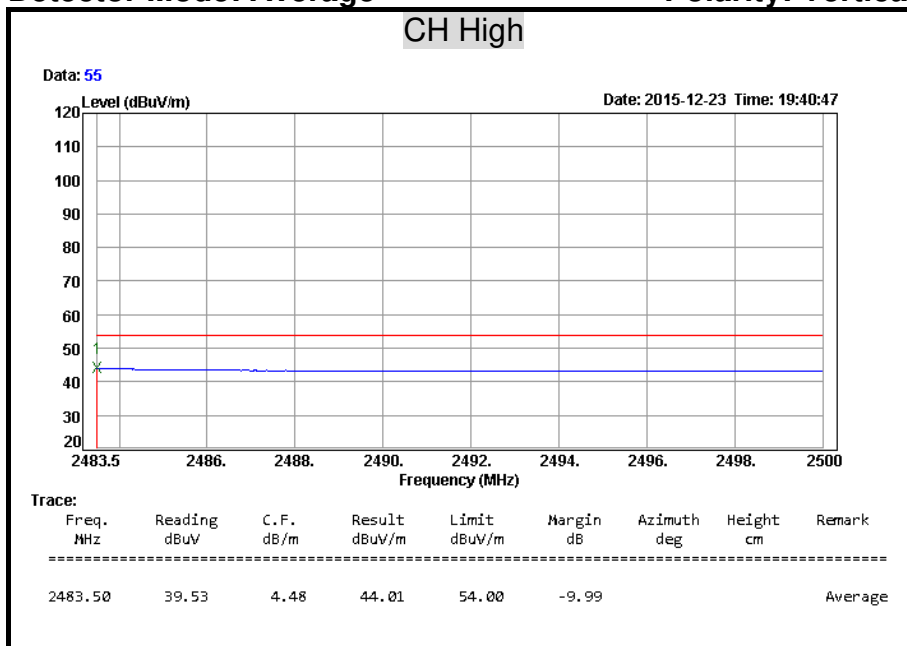
Detector Mode: Peak

Polarity: Vertical



Detector Mode: Average

Polarity: Vertical



7.2 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, 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 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

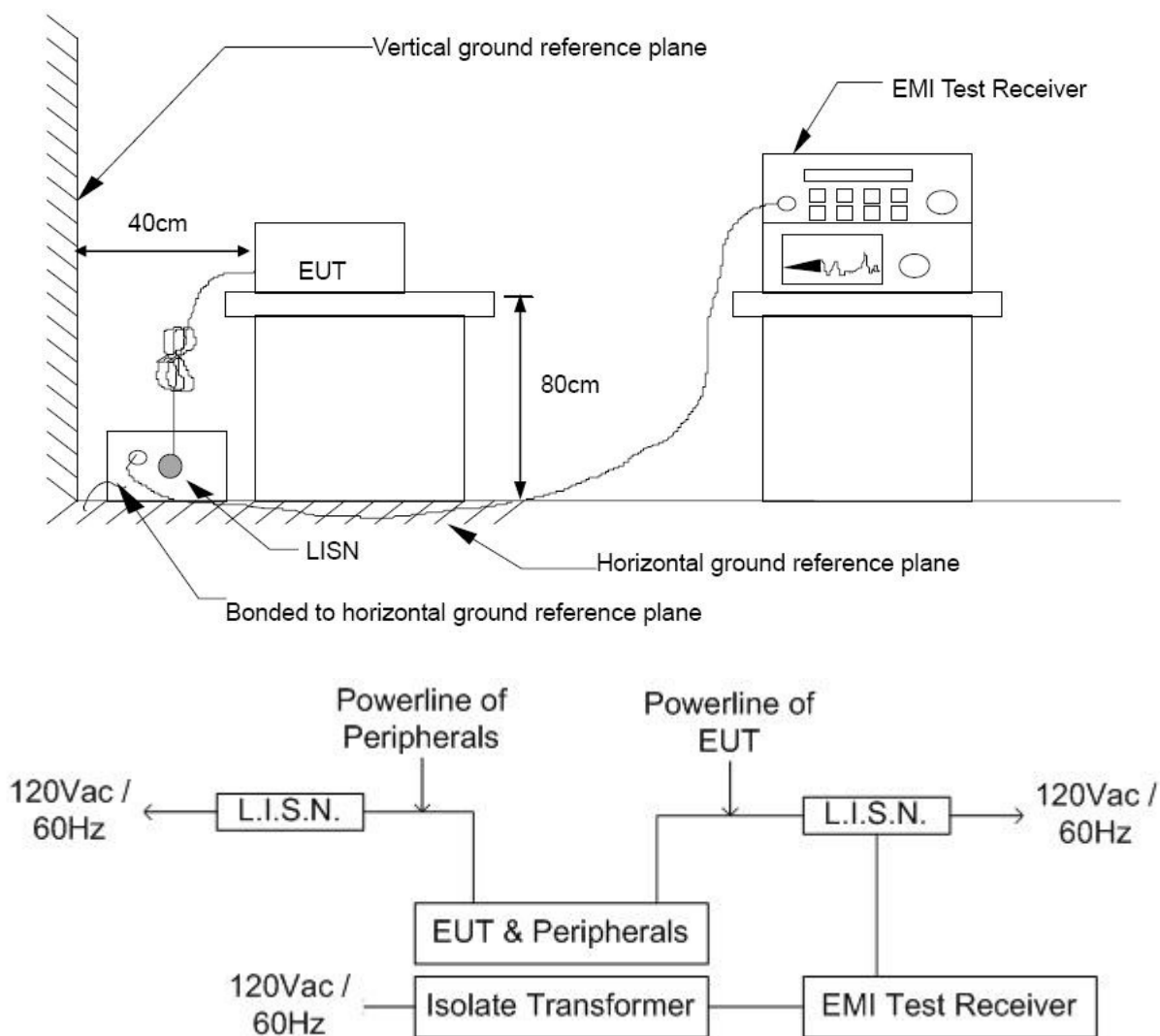
Frequency Range (MHz)	Conducted Limit (dB μ v)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	Schwarzbeck	NSLK 8127	8127465	08/05/2016
L.I.S.N	Schwarzbeck	NSLK 8127	8127473	03/09/2016
EMI Test Receiver	Rohde & Schwarz	ESHS 30	838550/003	10/31/2016
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100111	06/28/2016

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.10:2013.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

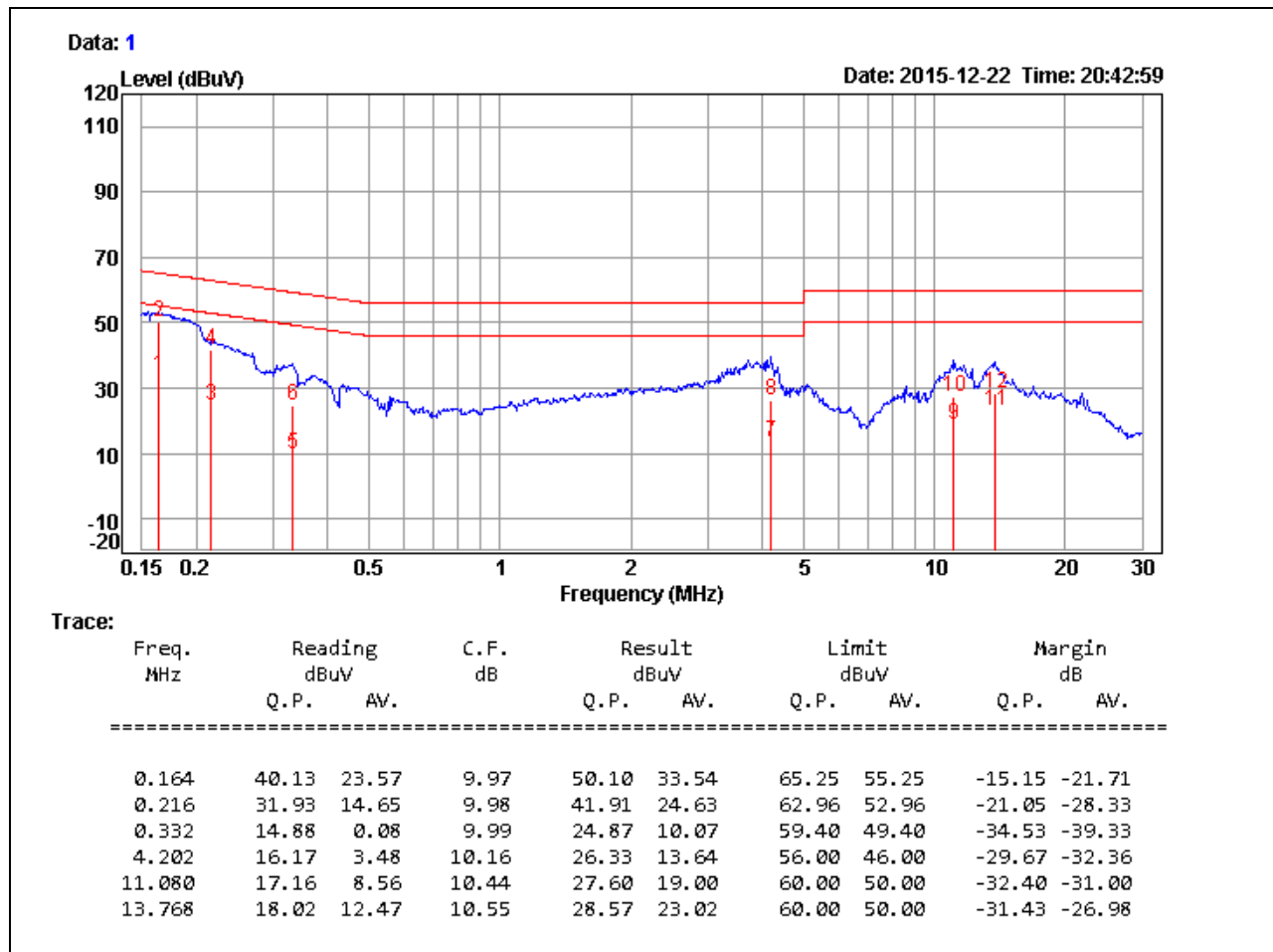
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

TEST RESULTS

Product Name	HD Action camera	Test By	Jason Chia
Test Model	DVS8Q9	Test Date	2015/12/27
Test mode	Mode 1	Temp. & Humidity	26°C, 60%

LINE

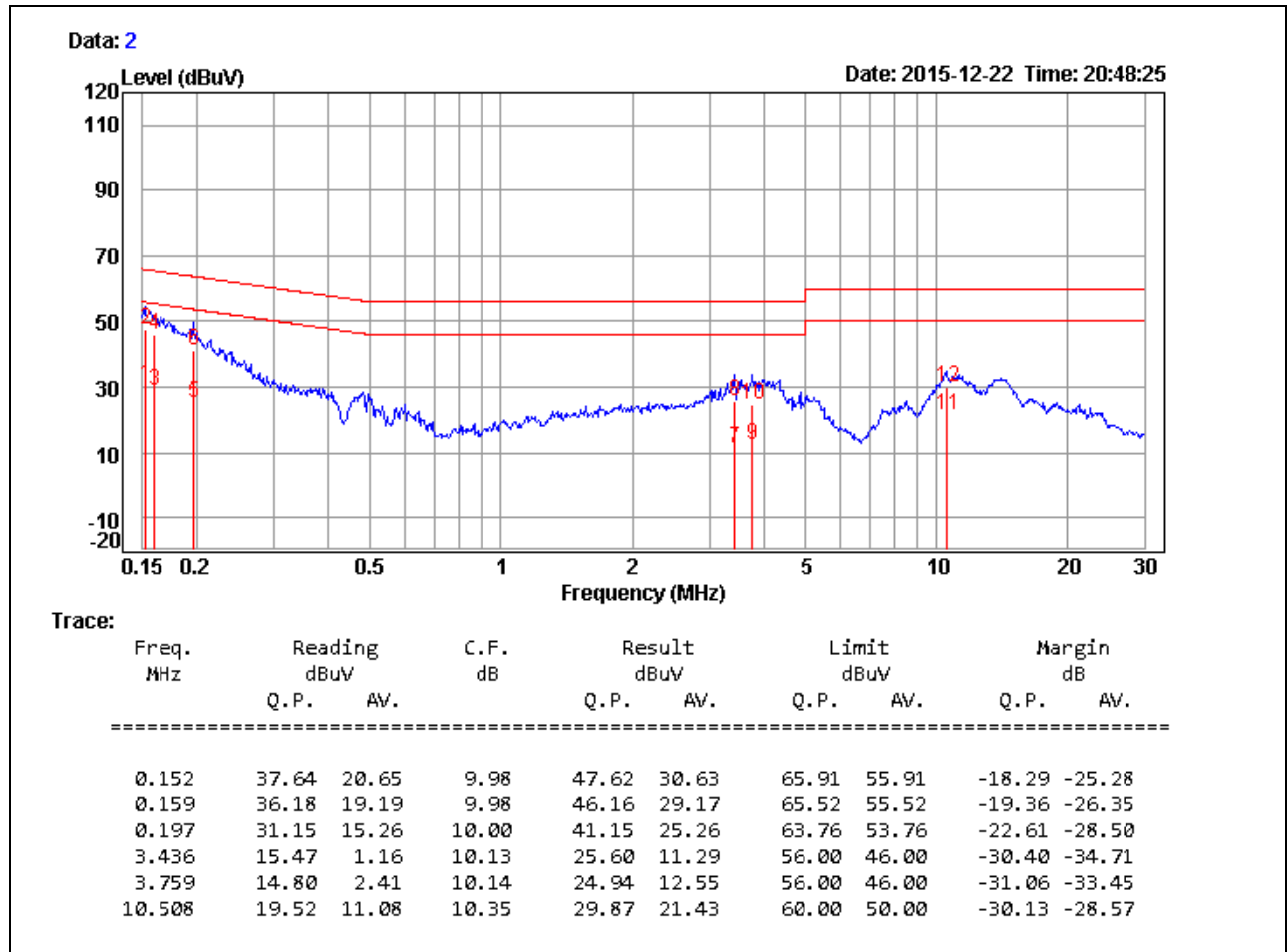


Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value

Product Name	HD Action camera	Test By	Jason Chia
Test Model	DVS8Q9	Test Date	2015/12/27
Test Mode	Mode 1	Temp. & Humidity	26°C, 60%

NEUTRAL



Remark:

1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value