TEST REPORT

KCTL Inc. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 www.kctl.co.kr		KR [.] F	Report No.: 19-SRF0052-A vage (1) of (26)	K	CTL
1. Client					
∘ Name	: CITECH CO.,LTD.				
 Address 	: 11F, 932, Yangjae	-daero	, Songpa-gu, Sec	oul, Repu	Iblic of Korea
∘ Date of	Receipt : 2019-02-19				
2. Use of Re	port : -				
3. Name of F	Product and Model : All-	n-One	Player / RS201		
4. Manufactu	rer and Country of Origin:CIT	ECH (CO.,LTD. / Korea	a	
5. FCC ID	: 2A	VYL-R	S201		
6. Date of Te	est : 2019-04-22 to 20)19-04	-26		
7. Test Stan	dards : FCC Part 15 Sul	opart C	, 15.247		
8. Test Resu	Its : Refer to the test	result i	in the test report		
	Tested by		Technical Mana	ger	400
Affirmation	Affirmation Affirmation Name : Myeonghwa Jang (Signature) Name : Seungyong Kim (Signature)				
2019-05-10					
KCTL Inc.					
As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.					

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ort revision history		
Date	Revision	Page No
2019-05-02	Initial report	-
2019-05-10	Updated antenna information	4, 5

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1. General information

Client	:	CITECH CO.,LTD.
Address	:	11F, 932, Yangjae-daero, Songpa-gu, Seoul, Republic of Korea
Manufacturer	:	CITECH CO.,LTD.
Address	:	11F, 932, Yangjae-daero, Songpa-gu, Seoul, Republic of Korea
Laboratory	:	KCTL Inc.
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-3327, G-198, C-3706, T-1849
		Industry Canada Registration No. : 8035A-2
		KOLAS No.: KT231

2. Device information

Equipment under test	:	All-in-One Player
Model	:	RS201
Derivative model	:	RS201A, RS201B, RS201C, RS201D, RS201E, RS201F, RS201G, RS201H, RS201I, RS201J, RS201K, RS201L, RS201N, RS201M, RS201O, RS201P, RS201Q, RS201R, RS201S, RS201T, RS201U, RS201V, RS201W, RS201X, RS201Y, RS201Z
Frequency range	:	Bluetooth(BDR/EDR/BLE)_2 402 Mtz ~ 2 480 Mtz
		WIFI(802.11b/g/n HT20)_2 412 ₩z ~ 2 462 ₩z
		WIFI(802.11n HT40)_2 422 ᢂ᠌ ~ 2 452 Μℤ
		WIFI(802.11a/n20)_5 180 ₩₂ ~ 5 240 ₩₂ (UNII-1)
		5 745 M½ ~ 5 825 M½ (UNII-3)
		WIFI(802.11n HT40)_5 190 № ~ 5 230 № (UNII-1)
		5 755 M₂ ~ 5 795 M₂ (UNII-3)
Modulation technique	:	Bluetooth(BDR/EDR)_GFSK, π/4DQPSK, 8DPSK
		Bluetooth(BLE)_GFSK
		WIFI(802.11a/b/g/n(HT20/40))_DSSS, OFDM
Number of channels	:	Bluetooth(BDR/EDR)_79ch
		Bluetooth(BLE)_40 ch
		2.4 Gtz: 11 ch (802.11b/g/n HT20), 7 ch (802.11n HT40)
		5.2 🖽 (UNII 1): 4 ch (802.11a/n HT20), 2 ch (802.11n HT40)
		5.8 @z (UNII 3): 5 ch (802.11a/n HT20), 2 ch (802.11n HT40)
Power source	:	DC 24 V
Antenna specification	:	PCB Pattern Antenna
Antenna gain	:	4.07 dBi (Bluetooth, WIFI 2.4 대2), 4.57 dBi (WIFI 5 대2)
Software version	:	1.1.09
Hardware version	:	Rev 1.0
Test device serial No.	:	N/A
Operation temperature	:	0 ℃ ~40 ℃

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2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
Adaptor	ChungKwangTech Inc.	ADS-120QL-19-3 240120E	-	100-240V, 50/60Hz, 1.6A

2.2. Information about derivative model

The basic and derivative model are electrically identical.

The derivative models is only for the simplified derivation based on buyer's model name.

2.3. Frequency/channel operations

This device contains the following capabilities: 802.11a/b/g/n(HT20/40), Bluetooth(BDR, EDR), Bluetooth Low Energy

Ch.	Frequency (Mb)
00	2 402
39	2 441
78	2 480

Table	2.3.1	Bluet	ooth(BD	R/EDR	() mode
10010		Diade			, , , , , , , , , , , , , , , , , , , ,

15.247 Requirements for Bluetooth transmitter:

- This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:
 - 1) This system is hopping pseudo-randomly.
 - 2) Each frequency is used equally on the average by each transmitter.
 - 3) The receiver input bandwidths that match the hopping channel bandwidths of their corresponding transmitters
 - 4) The receiver shifts frequencies in synchronization with the transmitted signals.
- 15.247(g): The system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this Section 15.247 should the transmitter be presented with a continuous data (or information) stream.
- 15.247(h): The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

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 UFL type PCB Pattern Antenna.

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4. Summary of tests

FCC Part section(s)	Parameter	Test results
15.247(b)(1), (4)	Maximum peak output power	NT(Note ¹)
15.247(a)(1)	Carrier frequency separation	NT(Note ¹)
15.247(a)(1)	20dB channel bandwidth	NT(Note ¹)
15.247(a)(iii) 15.247(b)(1)	Number of hopping channel	NT(Note1)
15.247(a) (iii)	Time of occupancy(dwell time)	NT(Note1)
15.205(a),	Spurious emission	Pass
15.247(d),	Band-edge, restricted band	Pass
15.207(a)	Conducted Emissions	Pass

Notes:

- 1. Test was performed by modular transmitter (Model Name: RTL8821AE, FCC ID: TX2-RTL8821AE, Test Report No. FR342603AC issued on 02, July, 2013 by SPORTON International Inc.)
- 2. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 3. According to exploratory test no any obvious emission were detected from 9 kl/z to 30 Ml/z. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
- 4. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in X orientation
- 5. The test procedure(s) in this report were performed in accordance as following.
 - ANSI C63.10-2013

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

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 of 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		
	9 kHz ~30 MHz:	2.28 dB	
	30 MHz ~ 300 MHz	4.98 dB	
Radiated spurious emissions	300 MHz ~1 000 MHz	5.14 dB	
	1 GHz ~6 GHz	6.70 dB	
	Above 6 GHz	6.60 dB	
Conducted omissions	9 kHz ~ 150 kHz	3.66 dB	
	150 kHz ~ 30 MHz	3.26 dB	

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6 Test results 6.1. Radiated spurious emissions & band edge

<u>Test setup</u>

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 Mz to 1 Gz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 $\mathbb{G}_{\mathbb{Z}}$ to the tenth harmonic of the highest fundamental frequency or to 40 $\mathbb{G}_{\mathbb{Z}}$ emissions, whichever is lower.



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<u>Limit</u>

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 (μ /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., 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 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 \geq (3×RBW)
- 4. Detector = peak
- 5. Sweep time = auto
- 6. Trace mode = max hold
- 7. Allow sweeps to continue until the trace stabilizes

Table. RDW as a l	unction of nequency
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

Table. RBW as a function of frequency

Average field strength measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1 MHz
- 3. VBW = $1/T \ge 1$ Hz
- 4. Averaging type was set to RMS to ensure that video filtering was applied in the power domain
- 5. Detector = peak
- 6. Sweep time = auto
- 7. Trace mode = max hold
- 8. Trace was allowed to run for at least 50 times(1/duty cycle) traces

Notes:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 Mb for Peak detection and frequency above 1 Gb. The resolution bandwidth of test receiver/spectrum analyzer is 1 Mb and the video bandwidth is 1 kb(≥1/T) for Average detection (AV) at frequency above 1 Gb. (where T = pulse width)
- 2. f < 30 MHz, extrapolation factor of 40 dB/decade of distance. $F_d = 40log(D_m/Ds)$
- $f \ge 30$ Mb, extrapolation factor of 20 dB/decade of distance. $F_d = 20log(D_m/Ds)$ Where:

 $F_d\text{=}$ Distance factor in $\ensuremath{\,\mathrm{dB}}$

D_m= Measurement distance in meters

- D_s= Specification distance in meters
- 3. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or $F_d(dB)$
- 4. The worst-case emissions are reported however emissions whose levels were not within 20 $\,\rm dB$ of respective limits were not reported.
- 5. Average test would be performed if the peak result were greater than the average limit.
- 6. ¹⁾ mean is restricted band.
- 7. According to part 15.31(f)(2), an extrapolation factor of 40 dB/decade is applied because measured distance of radiated emission is 3 m.

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Test results (Below 30 №) – Worst case: GFSK Low frequency

						1			
Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB)	(dB(<i>µ</i> V/ m))	(dB(<i>µ</i> V/ m))	(dB)
		No spurio	ous emissio	ns were de	etected with	in 20 dB o	f the limit.		



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Test results (Below 1 000 ₩) – Worst case: GFSK Low frequency

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB)	(dB(<i>µ</i> V/ m))	(dB(<i>µ</i> V/ m))	(dB)
				Quasi p	eak data				
79.83	Н	23.90	1.88	-30.67	13.09	-15.70	8.20	40.00	31.80
249.95	Н	38.40	1.24	-32.47	20.23	-11.00	27.40	46.00	18.60
299.18	V	30.20	3.87	-31.95	19.18	-8.90	21.30	46.00	24.70
374.96	Н	42.10	4.39	-32.06	21.07	-6.60	35.50	46.00	10.50
625.10	V	21.70	5.84	-30.74	24.70	-0.20	21.50	46.00	24.50
637.46	V	23.60	5.90	-30.85	24.75	-0.20	23.40	46.00	22.60



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Test results (Above 1 000 Mb)

<u>GFSK</u>

Low Channel

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin	
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB)	(dB(<i>µ</i> V/ m))	(dB(<i>µ</i> V/ m))	(dB)	
				Peak o	data					
1 997.73	V	57.54	3.42	-36.19	27.79	-	52.56	74.00	21.44	
2 389.61 ¹⁾	V	50.44	3.70	-36.22	28.54	-	46.46	74.00	27.54	
3 992.55 ¹⁾	V	68.98	4.78	-61.19	32.38	-	44.95	74.00	29.05	
6 661.45	V	67.82	6.44	-61.10	35.26	-	48.42	74.00	25.58	
Average Data										
	No spurious emissions were detected within 20 dB of the limit.									



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Middle Channel

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB)	(dB(µV/m))	(dB(<i>µ</i> V/ m))	(dB)
				Peak o	data				
1 992.73	V	58.59	3.42	-36.19	27.77	-	53.59	74.00	20.41
6 663.27	V	67.05	6.44	-61.09	35.26	-	47.66	74.00	26.34
				Average	Data				
No spurious emissions were detected within 20 dB of the limit.									



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High Channel

<u>nigii onanno</u>											
Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin		
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB)	(dB(µN/m))	(dB(<i>µ</i> V/ m))	(dB)		
				Peak o	data						
1 775.08	V	55.65	3.21	-36.62	26.90	-	49.14	74.00	24.86		
2 485.00 ¹⁾	Н	48.81	3.77	-35.91	28.72	-	45.39	74.00	28.61		
5 327.91	V	68.40	5.68	-60.64	33.39	-	46.83	74.00	27.17		
6 651.03	V	70.19	6.44	-61.11	35.25	-	50.77	74.00	23.23		
				Average	e Data						
	No spurious emissions were detected within 20 dB of the limit.										



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8DPSK

Low Channel

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin		
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB)	(dB(µV/m))	(dB(<i>µ</i> V/ m))	(dB)		
				Peak o	data						
1 792.34	V	55.02	3.23	-36.67	26.97	-	48.55	74.00	25.45		
2 389.841)	V	54.66	3.70	-36.22	28.54	-	50.68	74.00	23.32		
6 639.70	V	66.94	6.43	-61.10	35.23	-	47.50	74.00	26.50		
	Average Data										

No spurious emissions were detected within 20 $\,\mathrm{dB}\,$ of the limit.



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Middle Channel

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB)	(dB(<i>µ</i> V/ m))	(dB(<i>µ</i> V/m))	(dB)
				Peak o	data				
1 995.86	V	58.23	3.42	-36.19	27.78	-	53.24	74.00	20.76
6 659.64	V	66.15	6.44	-61.10	35.26	-	46.75	74.00	27.25
Average Data									
No spurious emissions were detected within 20 dB of the limit.									



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High Channel

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin	
(MHz)	(V/H)	(dB(µV))	(dB)	(dB)	(dB)	(dB)	(dB(<i>µ</i> V/ m))	(dB(<i>µ</i> V/ m))	(dB)	
				Peak o	data					
2 100.55	V	58.59	3.50	-36.10	27.99	-	53.98	74.00	20.02	
2 484.77 ¹⁾	V	49.82	3.77	-35.92	28.72	-	46.39	74.00	27.61	
6 636.98	V	67.73	6.43	-61.11	35.23	-	48.28	74.00	25.72	
				Average	Data					
	No spurious emissions were detected within 20 dB of the limit.									



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6.2. AC Conducted emission Test setup



<u>Limit</u>

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 kt to 30 Mt, 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 ()(())	Conducted I	imit (dBµV/m)
Frequency of Emission (MIZ)	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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<u>Test results</u>



N Phase No. Frequency [MHz] 1 0.15123 2 0.25317 3 0.32352 4 1.34102 5 17.01298 6 24.17679	Reading QP [dB(uV)] 32.9 29.0 25.8 16.9 8.1 4.3	Reading CAV [dB(uV)] 20.7 21.7 15.7 9.9 1.9 -1.7	c.f [dB] 9.8 9.6 9.7 9.7 10.0 10.0	Result QP [dB(uV)] 42.7 38.6 35.5 26.6 18.1 14.3	Result CAV [dB(uV)] 30.5 31.3 25.4 19.6 11.9 8.3	Limit QP [dB(uV)] 65.9 61.7 59.6 56.0 60.0 60.0	Limit AV [dB(uV)] 55.9 51.7 49.6 46.0 50.0 50.0	Margin QP [dB] 23.2 23.1 24.1 29.4 41.9 45.7	Margin CAV [dB] 25.4 20.4 24.2 26.4 38.1 41.7	
L1 Phase No. Frequency [MHz] 1 0.19118 2 0.35941 3 0.40923 4 0.81982 5 2.45944 6 3.56627	 Reading QP [dB(uV)] 32.4 30.7 33.1 22.0 19.0 19.2	Reading CAV [dB(uV)] 27.4 31.1 16.2 10.6 8.6	c.f [dB] 10.0 9.8 9.8 9.8 9.7 9.8	Result QP [dB(uV)] 42.4 40.5 42.9 31.8 28.7 29.0	Result CAV [dB(uV)] 31.9 37.2 40.9 26.0 20.3 18.4	Limit QP [dB(uV)] 64.0 58.7 57.7 56.0 56.0 56.0	Limit AV [dB(uV)] 54.0 48.7 47.7 46.0 46.0 46.0	Margin QP [dB] 21.6 18.2 14.8 24.2 27.3 27.0	Margin CAV [dB] 22.1 11.5 6.8 20.0 25.7 27.6	

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7. Measureme	ent equipment			
Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R & S	FSV40	100988	20.01.04
Pulse Power Meter	ANRITSU	ML2495A	1608009	19.08.02
Pulse Power Sensor	ANRITSU	MA2411B	1726174	19.08.02
ATTENUATOR	R & S	DNF Dämpfungsglied 10 dB in N-50 Ohm	31212	19.05.14
EMI TEST RECEIVER	R & S	ESCI	100732	19.08.23
Bi-Log Antenna	SCHWARZBECK	VULB 9168	583	20.05.04
Amplifier	SONOMA INSTRUMENT	310N	284608	19.08.23
COAXIAL FIXED ATTENUATOR	Agilent	8491B-003	2708A18758	20.05.04
Horn antenna	ETS.lindgren	3116	00086635	19.05.10
Horn antenna	ETS.lindgren	3117	161225	19.05.18
AMPLIFIER	L-3 Narda-MITEQ	AMF-7D-01001800 -22-10P	2003683	19.05.15
AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000-33 -8P	2000997	19.08.02
LOOP Antenna	R & S	HFH2-Z2	100355	20.08.24
Antenna Mast	Innco Systems	MA4640-XP-ET	-	-
Turn Table	Innco Systems	DT2000	79	-
Antenna Mast	Innco Systems	MA4000-EP	303	-
Turn Table	Innco Systems	DT2000	79	-
TWO-LINE V - NETWORK	R&S	ENV216	101584	19.04.05
EMI TEST RECEIVER	R & S	ESCI	101408	19.08.23
Highpass Filter	WT	WT-A1698-HS	WT160411001	19.05.14
Vector Signal Generator	R & S	SMBV100A	257566	20.01.04
Signal Generator	R & S	SMR40	100007	19.05.15
Cable Assembly	RadiAll	2301761768000PJ	1724.659	-
Cable Assembly	gigalane	RG-400	-	-
Cable Assembly	HUER+SUHNER	SUCOFLEX 104	MY4342/4	-

End of test report