verify No.966037598030

# **TEST REPORT**



65	KCTL Inc. Sinwon-ro, Yeongtong-gu,			Report No.:		
Suwon-si, Gyeonggi-do, 16677, Korea				17-SRF0026-A		CTL
TEL: 82-31-285-0894 FAX: 82-505-299-8311 www.kctl.co.kr			P	age (1) of (21)		
1. Client	1. Client					
∘ Name	∘ Name : Continental Autor			Systems Corpo	ration	
<ul> <li>Address</li> </ul>	s : 45-29,	Saeum-ro, Ic	heon-	-si, Gyeonggi-Do,	467-08	0, Korea
<ul> <li>Date of</li> </ul>	Receipt : 2017-0	4-19				
2. Use of Re	eport : -					
3. Name of	Product and Model	: Smar	t Caro	d Key / SVI-HICF	GE00	
4. Manufactu	rer and Country of O	<b>rigin</b> : Conti	inenta	al Automotive Sy	/stems	Corporation
	,	/ Kor		,		
5. FCC ID		: SY5H	HICFGE00			
6. IC		: 8325	A-HIO	CFGE00		
7. Date of T	est : 2017-0	4-24 to 201	7-04-	26		
8. Test Standards : FCC Part 15 Subpart C Section 15.209, Section 15.231 RSS-210 Issue 9, August 2016 RSS-GEN Issue 4, November 2014						
9. Test Res	ults : Refer t	o the test re	esult i	n the test report		
	Tested by	M		Technical Manag	ger	
Affirmation	Q	K		m	12	1ap
Name : Euijung Kim (Signa		(Signatur	re)	Name : Changm	in Kim	(Signature)
2017-06-07						
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.						

KCTL-TIR001-003/2

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#### **REPORT REVISION HISTORY**

Date	Revision	Page No
2017-05-02	Original Issued	-
2017-06-07	Revised	Several pages

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# 1. Client information

Applicant:	Continental Automotive Systems Corporation	
Address:	45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Korea	
Telephone number:	82-31-645-4864	
Contact person:	Sungmin Jang / Sungmin.Jang@continental-corporation.com	

Manufacturer:	Continental Automotive Systems Corporation	
Address:	45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Korea	



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# 2. Laboratory information

#### Address

#### KCTL Inc.

65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea Telephone Number: 82 31 285 0894 Facsimile Number: 82 505 299 8311

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 KOLAS NO.: KT231

#### SITE MAP



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# 3. Description of E.U.T.

#### 3.1 Basic description

Applicant:	Continental Automotive Systems Corporation	
Address of Applicant	45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Korea	
Manufacturer Continental Automotive Systems Corporation		
Address of Applicant 45-29, Saeum-ro, Icheon-si, Gyeonggi-Do, 467-080, Kor		
Type of equipment	Smart Card Key	
Basic Model	SVI-HICFGE00	
Serial number	N/A	

## 3.2 General description

Frequency Range	433.92 M½ (Tx)
Type of Modulation	FSK
The number of channels	1 Channel
Type of Antenna	PCB Antenna
Antenna Gain	-22.42 dBi
Power supply	DC 3 V
Product SW/HW version	1.0
Radio SW/HW version	1.0
Test SW Version	N/A <sub>1)</sub>
RF power setting in TEST SW	N/A <sub>2)</sub>

Note<sub>1)</sub> : The above EUT information was declared by the manufacturer.

Note<sub>2</sub>) : N/A<sub>1</sub>) No test SW was used during testing.

 $N/A_{2}$  RF power setting was not able to alter during testing.

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## 3.3 Test frequency

Test Frequency [Mtz]	
433.92 Mz	

## 3.4 Normal and extreme test conditions

Test condition	Temperature [°C]	Voltage [V]
NTNV	21	DC 3 V

Note 1 : N:Normal T:Temperature V:Voltage H:Highest L:Lowest



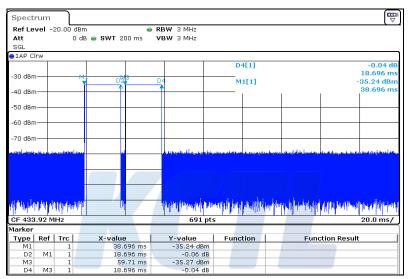
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#### - Duty Cycle

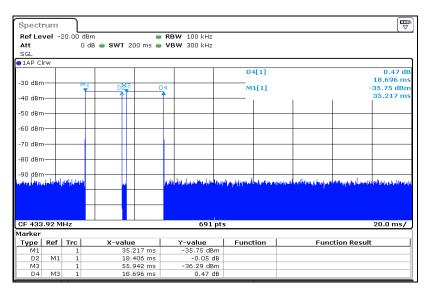
Tx On time : 37.36 ms Tx On time+Off time : 100 ms Duty cycle(x) =(Tx ontime)/(Tx on+off time) = 0.37Duty cycle factor =  $20\log(Duty Cycle) = -8.54 \text{ dB}$ 

#### - Tx On time:



#### - PDCF

2/PW < RBW = 53.91 Hz < 120 kHz %RBW (1 GHz below = 120 kHz, 1 GHz above = 1 MHz) 2/PW = 2/0.037102 s = 53.91 Hz PW = 37.102 ms



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# 4. Summary of test results

## 4.1 Standards & results

FCC Rule	IC Rule	Parameter	Test Result
15.203	-	Antenna Requirement	С
15.209(a) 15.231(b)	RSS-210, Issue 9, Table A1	Radiated emission, Spurious Emission and Field Strength of Fundamental	С
15.231(c)	RSS-210, Issue 9, A1.3 RSS-GEN Issue 4, 6.6	Bandwidth Measurement	С
15.231(a)	RSS-210, Issue 9, A1,1(a)	Transmission Time	С
15.207(a)	RSS-GEN, 8.8	Conducted Emissions	N/A (Note <sub>2</sub> )
15.207(a)	A1,1(a)	Conducted Emissions	N/A

Note<sub>1</sub>): C = complies, NC = Not complies, NT = Not tested, NA = Not Applicable Note<sub>2</sub>): This test is not applicable because the EUT uses battery and it's not to be connected to the public utility(AC) power line.

## 4.2 Uncertainty

Measurement Item	Expanded Uncertainty U = kUc (k = 2)	
Conducted RF power	<b>1.44</b> dB	
Conducted Spurious Emissions	1.	<b>.52</b> dB
	30 Mz ~ 300 Mz:	+ <b>4.94</b> dB, - <b>5.06</b> dB
		<b>+4.93</b> dB <b>, -5.05</b> dB
Radiated Spurious Emissions	300 Mz ~ 1 000 Mz:	+4.97 dB, -5.08 dB
		+ <b>4.84</b> dB, - <b>4.96</b> dB
	1 GHz ~ 25 GHz:	+6.03 dB, -6.05 dB
Conducted Emissions	9 kHz ~ 150 kHz:	<b>3.75</b> dB
	150 kHz ~ 30 MHz:	<b>3.36</b> dB



## 5. Test results

## 5.1 Antenna Requirement

#### 5.1.1 Regulation

According to §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 manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 5.1.2 Result

#### -Complied

The pcb antenna is an integral antenna, and no antenna other than that furnished by the responsible party shall be used with the device.

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## 5.2 Field strength of Fundamental

## 5.2.1 Regulation

#### 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: 83

Frequency (Mb)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/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

\*\* 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 Mz, 76-88 Mz, 174-216 Mz or 470-806 Mz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241..

#### According to §15.231(b)

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency ( <sup>Mtz</sup> )	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)		
40.66 - 40.70	2,250	225		
70 - 130	1,250	125		
130 - 174	1,250 to 3,750 **	125 to 375 **		
174 - 260	3,750	375		
260 - 470	3,750 to 12,500 **	375 to 1,250 **		
Above 470	12,500	1,250		

\*\* linear interpolations

Where F is the frequency in Mb, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 Mb,  $\mu V /m$  at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 Mb,  $\mu V /m$  at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.



## 5.2.2 Test procedure

The method of measurement used to test this Unlicensed Wireless device is ANSI C63.10-2013.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
- c. 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 polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. It tested x,y and z 3 axis each, mentioned only worst case data at this report.
- h. normally, output is measured with average result. but in this case, average result is calculated by measuring peak result and applying DCCF.

## 5.2.3 Test Result

#### - Complied

Frequency	Receiver Bandwidth	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	Factor	Result	Limit	Margin
[MHz]	[kHz]	[V/H]	[dB(µN)]	[dB]	[dB]	[dB]	[dB]	[dB( <i>µ</i> N/m)]	[dB( <i>µ</i> V/m)]	[dB]
433.92	120	Н	95.80	7.48	-32.66	16.28	-8.90	86.90	100.83	13.93

NOTE:

1. PK Limit = 80.83 + 20 = 100.83 dB

2. Factor(dB) = ANT Factor - Amp Gain + Cable Loss

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## 5.3 Spurious Emission

## 5.3.1 Regulation

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: 83

Frequency (Mb)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/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

\*\* 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 Mz, 76-88 Mz, 174-216 Mz or 470-806 Mz.

However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241..

#### According to §15.231(b)

In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency (毗)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)			
40.66 - 40.70	2,250	225			
70 - 130	1,250	125			
130 - 174	1,250 to 3,750 **	125 to 375 **			
174 - 260	3,750	375			
260 - 470	3,750 to 12,500 **	375 to 1,250 **			
Above 470	12,500	1,250			

\*\* linear interpolations



## 5.3.2 Measurement Procedure

The method of measurement used to test this Unlicensed Wireless device is ANSI C63.10-2013.

- a. The EUT was placed on the top of a rotating table 0.8 meters, 1.5 meter above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. During performing radiated emission below 1 GHz, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 GHz, the EUT was set 3 meter away from the interference-receiving antenna.
- c. 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 polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. It tested x,y and z 3 axis each, mentioned only worst case data at this report.

#### Note

- 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 1 GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 Mb for Peak detection and frequency above 1 Gb.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 Mb and the video bandwidth is 1/T for Average detection (AV) at frequency above 1 Gb. (where T = pulse width)
- 4. The radiated restricted band edge and Spurious radiated emissions average measurements use a duty cycle correction factor (DCCF).

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## 5.3.3 Test Result

- Complied

#### - Below 1 🕀 data

Frequency [Mtz]	Receiver Bandwidth [kltz]	Pol. [V/H]	Reading [dB(µN)]	Cable Loss [dB]	Amp Gain [dB]	Antenna Factor [dB]	Factor [dB]	Result	Limit	Margin [dB]	
	[Mtz]         [V/H]         [dB(µV)]         [dB]         [dB]         [dB]         [dB(µV/m)]         [dB]           Quasi-Peak DATA. Emissions below 30 Mtz										
-	Not Detected	-	-	-	-	-	-	-	-	-	
Quasi-Peak	DATA. Emis	sions be	elow 1 🖽								
50.56	1 000	Н	29.36	4.19	-32.51	14.32	-14.00	15.36	60.83	45.47	
262.47	1 000	Н	29.96	6.30	-32.50	13.00	-13.20	16.76	60.83	44.07	
486.31	1 000	Н	29.06	7.81	-32.72	17.01	-7.90	21.16	60.83	39.67	
647.31	1 000	Н	29.46	4.19	-32.51	14.32	-4.60	24.86	60.83	35.97	
867.81	1 000	Н	42.96	6.30	-32.50	13.00	-1.00	41.96	60.83	18.87	
981.88	1 000	Н	29.56	7.81	-32.72	17.01	1.20	30.76	54.00	23.24	

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#### - Above 1 🕀 data

Frequency	Receiver Bandwidth	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	Factor	Result	Limit	Margin
[MHz]	[kHz]	[V/H]	[dB(µV)]	[dB]	[dB]	[dB]	[dB]	[dB(µV/m)]	[dB(µV/m)]	[dB]
Peak DATA. Emissions above 1 @										
1 302.00	1 000	Н	82.00	0.27	-59.15	29.08	-29.80	52.20	74.00	21.80
1 736.00	1 000	Н	74.80	1.28	-58.94	30.56	-27.10	47.70	80.83	33.13
2 170.00	1 000	Н	88.00	2.08	-58.75	31.67	-25.00	63.00	80.83	17.83
2 604.00	1 000	Н	76.50	2.53	-58.41	32.18	-23.70	52.80	80.83	28.03
3 038.00	1 000	Н	86.90	2.97	-58.14	32.67	-22.50	64.40	80.83	16.43
3 471.50	1 000	Н	81.90	3.28	-58.68	32.90	-22.50	59.40	80.83	21.43
3 905.50	1 000	Н	81.60	3.60	-59.12	33.12	-22.40	59.20	74.00	14.80
4 339.50	1 000	Н	67.70	3.36	-57.54	33.58	-20.60	47.10	74.00	26.90
4 773.50	1 000	Н	76.30	2.96	-57.06	34.10	-20.00	56.30	74.00	17.70
Average DA	TA. Emissio	ons abov	e 1 GHz							
1 302.00	1 000	Н	73.46	0.27	-59.15	29.08	-29.80	43.66	54.00	10.34
1 736.00	1 000	Н	66.26	1.28	-58.94	30.56	-27.10	39.16	60.83	21.67
2 170.00	1 000	Н	79.46	2.08	-58.75	31.67	-25.00	54.46	60.83	6.37
2 604.00	1 000	Н	67.96	2.53	-58.41	32.18	-23.70	44.26	60.83	16.57
3 038.00	1 000	Н	78.36	2.97	-58.14	32.67	-22.50	55.86	60.83	4.97
3 471.50	1 000	Н	73.36	3.28	-58.68	32.90	-22.50	50.86	60.83	9.97
3 905.50	1 000	Н	73.06	3.60	-59.12	33.12	-22.40	50.66	54.00	3.34
4 339.50	1 000	Н	59.16	3.36	-57.54	33.58	-20.60	38.56	54.00	15.44
4 773.50	1 000	Н	67.76	2.96	-57.06	34.10	-20.00	47.76	54.00	6.24



#### 5.4 Bandwidth Measurement

#### 5.4.1 Regulation

The bandwidth of the emission shall be no wider than 0.25 % of the center frequency for devices operating above 70 Mz and below 900 Mz. Bandwidth is determined at the point 20 dB down from the modulated carrier.

## 5.4.2 Measurement Procedure

The method of measurement used to test this Unlicensed Wireless device is ANSI C63.10-2013.

- 1. The transmitter output is connected to the spectrum analyzer.
- 2. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using RBW=10 kHz, VBW=30 kHz and Span= 300 kHz.
- 3. The bandwidth of fundamental frequency was measured and recorded.

## 5.4.3 Test Result

#### - Complied

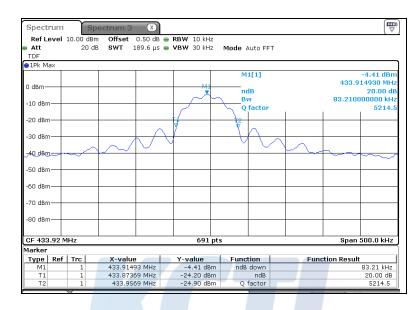
Frequency	20 dB Bandwidth	Limit	Occupied Bandwidth
[Mb]	[㎞]	[kllz]	(99 % BW) [kllz]
433.92	83.21	1 084.80	121.56

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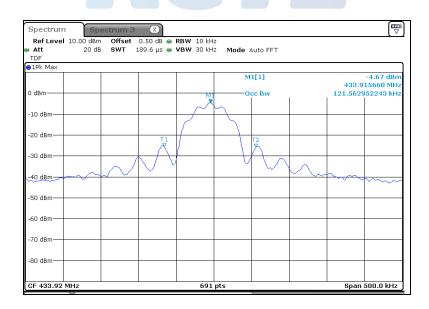


## 5.4.4 Test plot

#### -20 dB Bandwidth



-OBW





## 5.5 Transmission Time

## 5.5.1 Regulation

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

## 5.5.2 Measurement Procedure

The method of measurement used to test this Unlicensed Wireless device is ANSI C63.10-2013.

- 1. The transmitter output is connected to the spectrum analyzer.
- 2. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using RBW=100 kHz,VBW=300 kHz, Span=0 Hz.
- 3. The bandwidth of fundamental frequency was measured and recorded.



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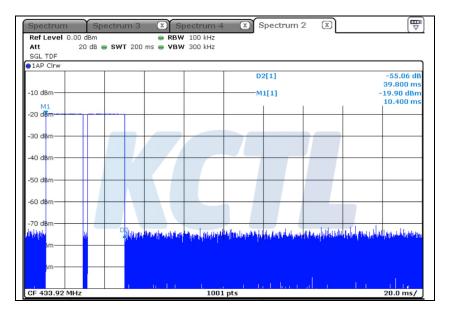


## 5.5.3 Test Result

#### - Complied

Frequency [₩₺]	Transmission Time [ms]	Limit [s]
433.92	39.80	5.00

## 5.5.4 Test plot



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# 6. Test equipment used for test

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
EMI Test Receive	R & S ESCI		101408	17.08.25
DC Power Supply	Agilent	E3632A	MY40027567	17.07.07
Signal Generator	R & S	SMR40	100007	17.06.02
Spectrum Analyzer	R & S	FSV30	100807	17.08.30
Bi-Log Antenna	SCHWARZBECK	VULB 9163	552	18.06.27
Amplifier	SONOMA INSTRUMENT	310N	186280	18.04.06
Amplifier	SONOMA INSTRUMENT	310N	344922	17.08.26
COAXIAL FIXED ATTENUATOR	HP	8491A	16861	18.04.06
Horn antenna	ETS.lindgren	3117	155787	17.11.28
AMPLIFIER	L-3 Narda- MITEQ	AMF-7D- 01001800- 22-10P	2031196	18.03.27
LOOP Antenna	R & S	HFH2-Z2	100355	18.03.03
Antenna Mast	MATURO	AM4.0	079/3440509	-
Antenna Mast	Innco Systems	MA4000-EP	303	-
Turn Table	MATURO	CO2000-SOFT	-	-
Turn Table	Innco Systems	DT2000S-1t	79	-
Highpass Filter	Wainwright InstrumentsGmbH	WHK0.5/13G-10SS	4	18.01.31
Vector Signal Generator	R & S	SMBV100A	257566	18.01.06