

### **Element Materials Technology**

Zeno Lite with Clarity FCC 15.247:2018 Bluetooth LE (DTS) Radio

Report # ELEM0063







NVLAP LAB CODE: 200630-0

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More: https://www.bis.doc.gov/index.php/forms-documents/regulations-docs/14-commerce-country-chart/fileT

### **CERTIFICATE OF TEST**



Last Date of Test: 2018-05-01 Element Materials Technology Model: Zeno Lite with Clarity

# **Radio Equipment Testing**

#### **Standards**

Specification	Method
FCC 15.247:2018	ANSI C63.10:2013, KDB 558074

#### **Results**

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	No	N/A	Not requested.
6.5, 6.6, 11.12.1, 11.13.2	Spurious Radiated Emissions	Yes	Pass	
11.6	Duty Cycle	No	N/A	Not requested.
11.8.2	Occupied Bandwidth	No	N/A	Not requested.
11.9.1.1	Output Power	No	N/A	Not requested.
11.10.2	Power Spectral Density	No	N/A	Not requested.
11.11	Band Edge Compliance	No	N/A	Not requested.
11.11	Spurious Conducted Emissions	No	N/A	Not requested.

#### **Deviations From Test Standards**

None

Approved By:

Kyle Holgate, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.

# **REVISION HISTORY**



Revision Number	Description	Date	Page Number
00	None		

# ACCREDITATIONS AND AUTHORIZATIONS



#### **United States**

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

**A2LA** - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Element to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

#### Canada

**ISED** - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with ISED.

#### **European Union**

European Commission - Within Element, we have a EU Notified Body validated for the EMCD and RED Directives.

#### Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

#### Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

#### Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

#### **Taiwan**

**BSMI** – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

#### **Singapore**

**IDA** – Recognized by IDA as a CAB for the acceptance of test data.

#### Israel

MOC - Recognized by MOC as a CAB for the acceptance of test data.

#### **Hong Kong**

**OFCA** – Recognized by OFCA as a CAB for the acceptance of test data.

#### **Vietnam**

**MIC** – Recognized by MIC as a CAB for the acceptance of test data.

#### **SCOPE**

For details on the Scopes of our Accreditations, please visit:

http://portlandcustomer.element.com/ts/scope/scope.htm http://gsi.nist.gov/global/docs/cabs/designations.html

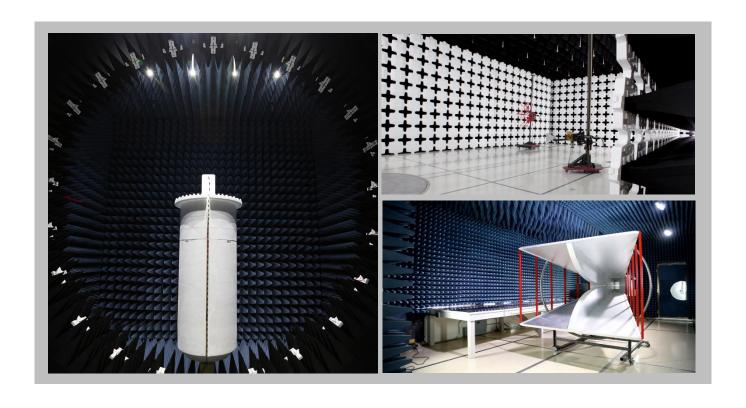
# **FACILITIES**







California Labs OC01-17 41 Tesla Irvine, CA 92618 (949) 861-8918	Minnesota Labs MN01-10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214	Oregon Labs EV01-12 6775 NE Evergreen Pkwy #400 Hillsboro, OR 97124 (503) 844-4066	<b>Texas</b> Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074 (469) 304-5255	<b>Washington</b> Labs NC01-05 19201 120 <sup>th</sup> Ave NE Bothell, WA 98011 (425)984-6600	
		NV	'LAP			
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0	
	Innov	ation, Science and Eco	nomic Development Car	ada		
2834B-1, 2834B-3	2834E-1, 2834E-3	N/A	2834D-1, 2834D-2	2834G-1	2834F-1	
		BS	MI			
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R	
	VCCI					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110	
	Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA					
US0158	US0175	N/A	US0017	US0191	US0157	



### **MEASUREMENT UNCERTAINTY**



### **Measurement Uncertainty**

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

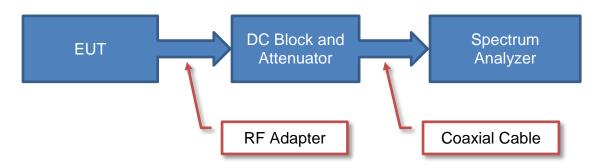
The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 dB

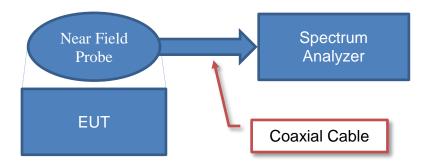
# **Test Setup Block Diagrams**



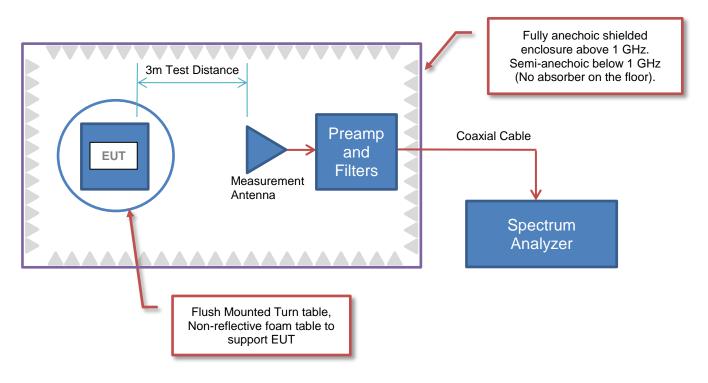
#### **Antenna Port Conducted Measurements**



#### **Near Field Test Fixture Measurements**



#### **Spurious Radiated Emissions**



# PRODUCT DESCRIPTION



#### **Client and Equipment Under Test (EUT) Information**

Company Name:	Element Materials Technology	
Address:	Unit E South Orbital Trading Park Hedon Road	
City, State, Zip:	Hull, HU9 1NJ	
Test Requested By:	Luke Hardy	
Model:	Zeno Lite with Clarity	
First Date of Test:	2018-04-26	
Last Date of Test:	2018-05-01	
Receipt Date of Samples:	2018-04-26	
Equipment Design Stage:	Production	
Equipment Condition:	No Damage	
Purchase Authorization:	Verified	

### **Information Provided by the Party Requesting the Test**

Functional Description of the EUT:
Oxygen Concentrator

#### **Testing Objective:**

To provide Bluetooth low energy radio testing to FCC 15.247 as requested by the customer

# **CONFIGURATIONS**



### Configuration ELEM0063-1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Portable Oxygen Concentrator	Gas Control Equipment	RS-00500	ZE100966

# **MODIFICATIONS**



# **Equipment Modifications**

Item	Date	Test	Modification	Note	Disposition of EUT
		Spurious	Tested as	No EMI suppression	EUT remained at
1	4/26/2018	Radiated	delivered to	devices were added or	Element following
		Emissions	Test Station.	modified during this test.	the test.
		Spurious	Tested as	No EMI suppression	Scheduled testing
2 5/1/2018	Radiated	delivered to	devices were added or	was completed.	
		Emissions	Test Station.	modified during this test.	was completed.

### SPURIOUS RADIATED EMISSIONS



PSA-ESCI 2017.12.19

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

#### **MODES OF OPERATION**

Continuous Tx BLE

#### **POWER SETTINGS INVESTIGATED**

110VAC/60Hz

#### **CONFIGURATIONS INVESTIGATED**

ELEM0063 - 1

#### FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz	Cton Fraguesia	126 GHz
Start Frequency I30 MHz	Stop Frequency	1/0 (30/
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#### SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

#### **TEST EQUIPMENT**

Manufacturer	Model	ID	Last Cal.	Interval
ESM Cable Corp.	KMKM-72	EVY	31-Aug-2017	12 mo
Miteq	AMF-6F-18002650-25-10P	AVU	31-Aug-2017	12 mo
ETS Lindgren	3160-09	AIV	NCR	0 mo
Miteq	AMF-6F-12001800-30-10P	AVD	30-Nov-2017	12 mo
ETS Lindgren	3160-08	AHV	NCR	0 mo
None	Standard Gain Horns Cable	EVF	30-Nov-2017	12 mo
L-3 Narda-MITEQ	AMF-6F-08001200-30-10P	PAO	30-Nov-2017	12 mo
ETS Lindgren	3160-07	AHU	NCR	0 mo
Micro-Tronics	HPM50111	HFO	1-Feb-2018	12 mo
Coaxicom	3910-20	AXZ	28-Feb-2018	12 mo
N/A	Double Ridge Horn Cables	EVB	29-Nov-2017	12 mo
Miteq	AMF-3D-00100800-32-13P	PAG	29-Nov-2017	12 mo
ETS Lindgren	3115	AIZ	7-Feb-2018	24 mo
N/A	Bilog Cables	EVA	30-Nov-2017	12 mo
Miteq	AM-1616-1000	AOL	30-Nov-2017	12 mo
Teseq	CBL 6141B	AXR	30-Jun-2016	24 mo
Agilent	E4446A	AAQ	18-Mar-2018	12 mo
	ESM Cable Corp.  Miteq ETS Lindgren  Miteq ETS Lindgren  None L-3 Narda-MITEQ ETS Lindgren  Micro-Tronics  Coaxicom  N/A  Miteq ETS Lindgren  N/A  Miteq Teseq	ESM Cable Corp.         KMKM-72           Miteq         AMF-6F-18002650-25-10P           ETS Lindgren         3160-09           Miteq         AMF-6F-12001800-30-10P           ETS Lindgren         3160-08           None         Standard Gain Horns Cable           L-3 Narda-MITEQ         AMF-6F-08001200-30-10P           ETS Lindgren         3160-07           Micro-Tronics         HPM50111           Coaxicom         3910-20           N/A         Double Ridge Horn Cables           Miteq         AMF-3D-00100800-32-13P           ETS Lindgren         3115           N/A         Bilog Cables           Miteq         AM-1616-1000           Teseq         CBL 6141B	ESM Cable Corp.         KMKM-72         EVY           Miteq         AMF-6F-18002650-25-10P         AVU           ETS Lindgren         3160-09         AIV           Miteq         AMF-6F-12001800-30-10P         AVD           ETS Lindgren         3160-08         AHV           None         Standard Gain Horns Cable         EVF           L-3 Narda-MITEQ         AMF-6F-08001200-30-10P         PAO           ETS Lindgren         3160-07         AHU           Micro-Tronics         HPM50111         HFO           Coaxicom         3910-20         AXZ           N/A         Double Ridge Horn Cables         EVB           Miteq         AMF-3D-00100800-32-13P         PAG           ETS Lindgren         3115         AIZ           N/A         Bilog Cables         EVA           Miteq         AM-1616-1000         AOL           Teseq         CBL 6141B         AXR	ESM Cable Corp.         KMKM-72         EVY         31-Aug-2017           Miteq         AMF-6F-18002650-25-10P         AVU         31-Aug-2017           ETS Lindgren         3160-09         AIV         NCR           Miteq         AMF-6F-12001800-30-10P         AVD         30-Nov-2017           ETS Lindgren         3160-08         AHV         NCR           None         Standard Gain Horns Cable         EVF         30-Nov-2017           L-3 Narda-MITEQ         AMF-6F-08001200-30-10P         PAO         30-Nov-2017           ETS Lindgren         3160-07         AHU         NCR           Micro-Tronics         HPM50111         HFO         1-Feb-2018           Coaxicom         3910-20         AXZ         28-Feb-2018           N/A         Double Ridge Horn Cables         EVB         29-Nov-2017           Miteq         AMF-3D-00100800-32-13P         PAG         29-Nov-2017           ETS Lindgren         3115         AIZ         7-Feb-2018           N/A         Bilog Cables         EVA         30-Nov-2017           Miteq         AM-1616-1000         AOL         30-Nov-2017           Teseq         CBL 6141B         AXR         30-Jun-2016

#### **TEST DESCRIPTION**

The highest gain antenna of each type to be used with the EUT was tested. The EUT was configured for the required transmit frequencies and the modes as showed in the data sheets.

For each configuration, the spectrum was scanned throughout the specified range as part of the exploratory investigation of the emissions. These "pre-scans" are not included in the report. Final measurements on individual emissions were then made and included in this test report.

The individual emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis if required, and adjusting the measurement antenna height and polarization (per ANSI C63.10). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

Measurements were made with the required detectors and annotated on the data for each individual point using the following annotation:

QP = Quasi-Peak Detector

PK = Peak Detector

AV = RMS Detector

Measurements were made to satisfy the specific requirements of the test specification for out of band emissions as well as the restricted band requirements.

If there are no detectable emissions above the noise floor, the data included may show noise floor measurements for reference only.

Measurements at the edges of the allowable band may be presented in an alternative method as provided for in the ANSI C63.10 Marker-Delta method. This method involves performing an in-band fundamental measurement followed by a screen capture of the fundamental and out-of-band emission using reduced measurement instrumentation bandwidths. The amplitude delta measured on this screen capture is applied to the fundamental emission value to show the out-of-band emission level as applied to the limit.

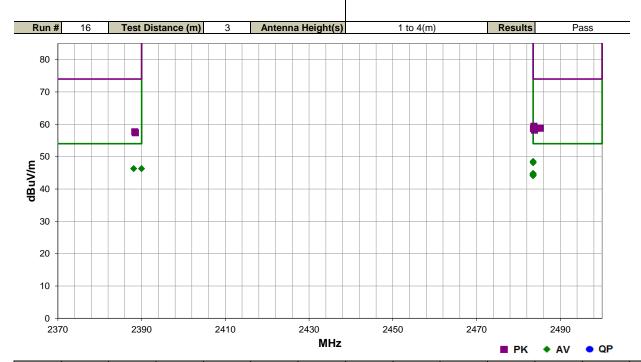
# **RADIATED EMISSIONS**



				EmiR5 2018.02.06 PSA-ESCI 2017.12.19	
Work Order:	ELEM0063	Date:	26-Apr-2018	10100	
Project:	None	Temperature:	22.2 °C	Rocky le Felings	
Job Site:	EV01	Humidity:	41.4% RH		
Serial Number:	ZE100966	Barometric Pres.:	1017 mbar	Tested by: Travis Pow and Rod Peloquin	
EUT:	Zeno Lite with Clarity				
Configuration:	1				
Customer:	Element Materials Ted	chnology			
Attendees:	None				
EUT Power:	110VAC/60Hz				
Operating Mode:	Continuous Tx BLE				
Deviations:	None				
Comments:		for EUT orientation and	d Tx Channel		
Toot Cracifications	l		Took Moth	and and	

Test Specifications
FCC 15.247:2018 Test Method

ANSI C63.10:2013



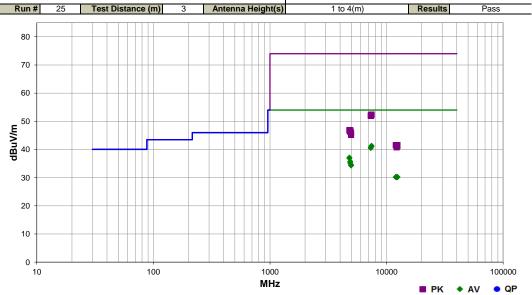
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2483.500	33.0	-4.5	1.5	206.0	3.0	20.0	Horz	AV	0.0	48.5	54.0	-5.5	EUT Horizontal
2483.527	32.6	-4.5	1.0	46.0	3.0	20.0	Vert	AV	0.0	48.1	54.0	-5.9	EUT Horizontal
2388.123	31.2	-4.9	1.0	43.0	3.0	20.0	Horz	AV	0.0	46.3	54.0	-7.7	EUT Horizontal
2390.000	31.2	-4.9	1.0	49.0	3.0	20.0	Vert	AV	0.0	46.3	54.0	-7.7	EUT Horizontal
2483.513	29.3	-4.5	1.0	46.0	3.0	20.0	Vert	AV	0.0	44.8	54.0	-9.2	EUT Horizontal
2483.537	29.1	-4.5	1.4	340.0	3.0	20.0	Horz	AV	0.0	44.6	54.0	-9.4	EUT on Side
2483.517	28.9	-4.5	1.0	207.0	3.0	20.0	Vert	AV	0.0	44.4	54.0	-9.6	EUT on Side
2483.500	28.8	-4.5	1.4	131.0	3.0	20.0	Horz	AV	0.0	44.3	54.0	-9.7	EUT Vertical
2483.513	28.6	-4.5	1.0	63.0	3.0	20.0	Vert	AV	0.0	44.1	54.0	-9.9	EUT Vertical
2483.690	43.9	-4.5	1.5	207.0	3.0	20.0	Horz	PK	0.0	59.4	74.0	-14.6	EUT Horizontal
2485.240	43.2	-4.4	1.0	63.0	3.0	20.0	Vert	PK	0.0	58.8	74.0	-15.2	EUT Vertical
2483.930	43.3	-4.5	1.0	207.0	3.0	20.0	Vert	PK	0.0	58.8	74.0	-15.2	EUT on Side
2483.583	43.2	-4.5	1.0	46.0	3.0	20.0	Vert	PK	0.0	58.7	74.0	-15.3	EUT Horizontal
2483.813	43.1	-4.5	1.4	340.0	3.0	20.0	Horz	PK	0.0	58.6	74.0	-15.4	EUT on Side
2483.833	42.7	-4.5	1.4	131.0	3.0	20.0	Horz	PK	0.0	58.2	74.0	-15.8	EUT Vertical
2388.357	42.6	-4.9	1.0	43.0	3.0	20.0	Horz	PK	0.0	57.7	74.0	-16.3	EUT Horizontal
2388.517	42.3	-4.9	1.0	49.0	3.0	20.0	Vert	PK	0.0	57.4	74.0	-16.6	EUT Horizontal

# **SPURIOUS RADIATED EMISSIONS**



				EmiR5 2018.02.06 PSA-ESCI 2017.12.19							
Work Order:	ELEM0063	Date:	1-May-2018	10100							
Project:	None	Temperature:	20.5 °C	Rocky be Felings							
Job Site:	EV01	Humidity:	42.3% RH								
Serial Number:	ZE100966	Barometric Pres.:	1022 mbar	Tested by: Travis Pow and Rod Peloquin							
EUT:	Zeno Lite with Clarity										
Configuration:	1										
Customer:	Element Materials Technology										
Attendees:	None										
EUT Power:	110VAC/60Hz										
Operating Mode:	Continuous Tx BLE										
Deviations:	None										
Comments:	See Comments below for EUT orientation and Tx Channel										

<b>Test Specifications</b>				Test Method		
FCC 15.247:2018				ANSI C63.10:2013		
D 41 05	Test Distance (m)	2	Antonno Hoight/o)	1 to 1/m)	Desults	Dage
Run # 25	Test Distance (m)	3	Antenna Height(s)	1 to 4(m)	Results	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7439.193	28.3	13.0	1.6	49.0	3.0	0.0	Horz	AV	0.0	41.3	54.0	-12.7	EUT on Side, High Ch. 2480 MHz
7439.930	28.1	13.0	3.8	321.0	3.0	0.0	Vert	AV	0.0	41.1	54.0	-12.9	EUT Horizontal, High Ch. 2480 MHz
7319.010	28.4	12.2	1.0	5.0	3.0	0.0	Vert	AV	0.0	40.6	54.0	-13.4	EUT Horizontal, Mid Ch. 2442 MHz
7319.703	28.3	12.2	1.0	360.0	3.0	0.0	Horz	AV	0.0	40.5	54.0	-13.5	EUT on Side, Mid Ch. 2442 MHz
4803.995	33.3	3.8	2.7	176.0	3.0	0.0	Vert	AV	0.0	37.1	54.0	-16.9	EUT Horizontal, Low Ch. 2402 MHz
4803.737	33.1	3.8	1.0	206.0	3.0	0.0	Horz	AV	0.0	36.9	54.0	-17.1	EUT on Side, Low Ch. 2402 MHz
4883.903	30.6	5.1	1.1	184.0	3.0	0.0	Vert	AV	0.0	35.7	54.0	-18.3	EUT Horizontal, Mid Ch. 2442 MHz
4883.983	30.1	5.1	1.2	217.0	3.0	0.0	Horz	AV	0.0	35.2	54.0	-18.8	EUT on Side, Mid Ch. 2442 MHz
4959.950	29.3	5.2	1.0	188.0	3.0	0.0	Vert	AV	0.0	34.5	54.0	-19.5	EUT Horizontal, High Ch. 2480 MHz
4959.930	29.1	5.2	1.0	214.0	3.0	0.0	Horz	AV	0.0	34.3	54.0	-19.7	EUT on Side, High Ch. 2480 MHz
7439.333	39.4	13.0	3.8	321.0	3.0	0.0	Vert	PK	0.0	52.4	74.0	-21.6	EUT Horizontal, High Ch. 2480 MHz
7439.710	39.3	13.0	1.6	49.0	3.0	0.0	Horz	PK	0.0	52.3	74.0	-21.7	EUT on Side, High Ch. 2480 MHz
7321.000	40.0	12.2	1.0	360.0	3.0	0.0	Horz	PK	0.0	52.2	74.0	-21.8	EUT on Side, Mid Ch. 2442 MHz
7320.563	39.7	12.2	1.0	5.0	3.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	EUT Horizontal, Mid Ch. 2442 MHz
12009.550	29.2	1.0	1.0	224.0	3.0	0.0	Horz	AV	0.0	30.2	54.0	-23.8	EUT on Side, Low Ch. 2402 MHz
12009.800	29.2	1.0	1.9	258.0	3.0	0.0	Vert	AV	0.0	30.2	54.0	-23.8	EUT Horizontal, Low Ch. 2402 MHz
12209.530	29.2	1.0	1.6	57.0	3.0	0.0	Vert	AV	0.0	30.2	54.0	-23.8	EUT Horizontal, Mid Ch. 2442 MHz
12399.010	29.0	1.2	1.0	251.0	3.0	0.0	Vert	AV	0.0	30.2	54.0	-23.8	EUT Horizontal, High Ch. 2480 MHz
12399.240	29.0	1.2	1.0	72.0	3.0	0.0	Horz	AV	0.0	30.2	54.0	-23.8	EUT on Side, High Ch. 2480 MHz
12209.340	29.1	1.0	1.0	74.0	3.0	0.0	Horz	AV	0.0	30.1	54.0	-23.9	EUT on Side, Mid Ch. 2442 MHz
4804.273	43.1	3.8	1.0	206.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	EUT on Side, Low Ch. 2402 MHz
4884.610	41.7	5.1	1.1	184.0	3.0	0.0	Vert	PK	0.0	46.8	74.0	-27.2	EUT Horizontal, Mid Ch. 2442 MHz
4803.740	42.9	3.8	2.7	176.0	3.0	0.0	Vert	PK	0.0	46.7	74.0	-27.3	EUT Horizontal, Low Ch. 2402 MHz
4884.690	41.1	5.1	1.2	217.0	3.0	0.0	Horz	PK	0.0	46.2	74.0	-27.8	EUT on Side, Mid Ch. 2442 MHz
4960.433	40.8	5.2	1.0	188.0	3.0	0.0	Vert	PK	0.0	46.0	74.0	-28.0	EUT Horizontal, High Ch. 2480 MHz
4960.360	40.0	5.2	1.0	214.0	3.0	0.0	Horz	PK	0.0	45.2	74.0	-28.8	EUT on Side, High Ch. 2480 MHz
12010.210	40.5	1.0	1.0	224.0	3.0	0.0	Horz	PK	0.0	41.5	74.0	-32.5	EUT on Side, Low Ch. 2402 MHz
12010.500	40.5	1.0	1.9	258.0	3.0	0.0	Vert	PK	0.0	41.5	74.0	-32.5	EUT Horizontal, Low Ch. 2402 MHz
12399.760	40.3	1.2	1.0	72.0	3.0	0.0	Horz	PK	0.0	41.5	74.0	-32.5	EUT on Side, High Ch. 2480 MHz
12399.440	40.1	1.2	1.0	251.0	3.0	0.0	Vert	PK	0.0	41.3	74.0	-32.7	EUT Horizontal, High Ch. 2480 MHz
12209.480	39.8	1.0	1.0	74.0	3.0	0.0	Horz	PK	0.0	40.8	74.0	-33.2	EUT on Side, Mid Ch. 2442 MHz
12210.820	39.8	1.0	1.6	57.0	3.0	0.0	Vert	PK	0.0	40.8	74.0	-33.2	EUT Horizontal, Mid Ch. 2442 MHz