

# FCC RF Test Report

## (900MHz&2.4GHz)


**Applicant:** Autel Robotics Co., Ltd.

**Address of Applicant:** 18th Floor, Block C1, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, 518055, China

**Equipment Under Test (EUT)**

Product Name: Autel Smart Controller SE

Model No.: EF6

Trade Mark: 

**FCC ID:** 2AGNTEF6240958A

**Applicable Standards:** FCC CFR Title 47 Part 15C (§15.247)

**Date of Sample Receipt:** 24 Jun., 2022

**Date of Test:** 25 Jun., to 14 Jul., 2022


**Date of Report Issued:** 15 Jul., 2022

**Test Result:** PASS

**Tested by:** Mike OU **Date:** 15 Jul., 2022  
Test Engineer

**Reviewed by:** Wenwen Zhang **Date:** 15 Jul., 2022  
Project Engineer

**Approved by:** Wenwen Zhang **Date:** 15 Jul., 2022  
Manager



This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 2 Version

Version No.	Date	Description
00	15 Jul., 2022	Original

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## 4 General Information

### 4.1 Client Information

Applicant:	Autel Robotics Co., Ltd.
Address:	18th Floor, Block C1, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, 518055, China
Manufacturer:	Autel Robotics Co., Ltd.
Address:	18th Floor, Block C1, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, 518055, China
Factory:	Autel Robotics Co., Ltd. Guangming Branch
Address:	No.701, Jixie Factory, Building 4, Yanxiang Technology Industrial Park, Gaoxin Road, Dongzhou Community, Guangming street, Guangming district, Shenzhen, Guangdong, China

### 4.2 General Description of E.U.T.

Product Name:	Autel Smart Controller SE
Model No.:	EF6
Operation Frequency:	904.0MHz~926.0MHz, 2403.5MHz~2475.5MHz
Channel Numbers:	904.0MHz~926.0MHz: 23 for 1.4MHz Bandwidth 13 for 10 MHz Bandwidth 3 for 20 MHz Bandwidth  2403.5MHz~2475.5MHz: 73 for 1.4MHz Bandwidth 65 for 10 MHz Bandwidth 51 for 20 MHz Bandwidth
Channel Separation:	1MHz
Bandwidth:	1.4MHz, 10MHz, 20MHz
Modulation Technology:	QPSK, 16QAM
Antenna Type:	External Antenna
Antenna Gain:	906.0MHz~924.0MHz : 2.7dBi(declare by Applicant) 2403.5MHz~2475.5MHz: 1.1dBi(declare by Applicant)
Antenna Transmit Mode:	MISO (1TX, 2RX)
Power Supply:	Rechargeable Li-ion Battery DC7.7V/1900mAh
AC Adapter:	Model No.:RLC-537 Input: AC100-240V, 50/60Hz 0.85A Output:USB-C:5V, 3A; 9V, 3A; 12V, 2.5A USB-A:5V, 3A; 9V, 3A; 12V, 2.5A USB-A+ USB-C:5V, 3.4A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

### 4.3 Test Mode and Environment

Test Mode:	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation
<i>Remark: For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 1.4M-QPSK, 10M-QPSK, 20M-QPSK, 1.4M-16QAM, 10M-16QAM, 20M-16QAM Bandwidth and modulation mode, found 1.4M-QPSK modulation mode was worse case mode. The report only reflects the test data of worst mode.</i>	
Operating Environment:	
Temperature:	15°C ~ 35°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1010 mbar

### 4.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.
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### 4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	±5.34 dB
Radiated Emission (30MHz ~ 1GHz) (10m SAC)	±4.32 dB

*Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.*

### 4.6 Additions to, Deviations, or Exclusions from the Method

No
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## 4.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 4.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

## 4.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2022	03-06-2023
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	03-08-2022	03-07-2023
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	04-07-2022	04-06-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-20-2022	01-19-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-20-2022	01-19-2023
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	03-30-2022	03-29-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	03-05-2022	03-04-2023
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-19-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-27-2021	10-26-2022
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-20-2022	01-19-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-20-2022	01-19-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-20-2022	01-19-2023
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

<b>Radiated Emission(10m SAC):</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Manage No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
10m SAC	ETS	RFSD-100-F/A	WXJ090	04-28-2021	04-27-2024
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-1	04-01-2022	03-31-2023
BiConiLog Antenna	SCHWARZBECK	VULB 9168	WXJ090-2	03-31-2022	03-30-2023
EMI Test Receiver	R&S	ESR 3	WXJ090-3	03-30-2022	03-29-2023
EMI Test Receiver	R&S	ESR 3	WXJ090-4	03-30-2022	03-29-2023
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-6	01-20-2022	01-19-2023
Low Pre-amplifier	Bost	LNA 0920N	WXJ090-7	01-20-2022	01-19-2023
Cable	Bost	JYT10M-1G-NN-10M	WXG002-7	01-20-2022	01-19-2023
Cable	Bost	JYT10M-1G-NN-10M	WXG002-8	01-20-2022	01-19-2023
Test Software	R&S	EMC32	Version: 10.50.40		

<b>Conducted Emission:</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Manage No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
EMI Test Receiver	Rohde & Schwarz	ESR3	WXJ003-2	10-21-2021	10-20-2022
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-24-2022	02-23-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	03-30-2022	03-29-2023
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-24-2022	02-23-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	N/A	
Test Software	AUDIX	E3	Version: 6.110919b		

<b>Conducted Method:</b>					
<b>Test Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Manage No.</b>	<b>Cal. Date (mm-dd-yy)</b>	<b>Cal. Due date (mm-dd-yy)</b>
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	10-27-2021	10-26-2022
DC Power Supply	Keysight	E3642A	WXJ025-2	11-27-2020	11-26-2023
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	03-19-2021	03-18-2023
Power Detector Box	MWRFTTEST	MW100-PSB	WXJ007-4	11-19-2021	11-18-2022
RF Control Unit	MWRFTTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTTEST	MTS 8310	Version: 2.0.0.0		

## 5 Measurement Setup and Procedure

### 5.1 Test Channel

According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

#### 900MHz:

Operation Frequency each of channel for 1.4MHz Bandwidth					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	904MHz	....	....	....	....
2	905MHz	12	915MHz	22	925MHz
3	906MHz	....	....	23	926MHz

Note:  
1. Channel 1, 12 & 19 selected as Lowest, Middle and Highest channel.

Operation Frequency each of channel for 10MHz Bandwidth					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	909MHz	....	....	....	....
2	910MHz	6	915MHz	12	920MHz
3	911MHz	....	....	13	921MHz

Note:  
1. Channel 1, 6 & 13 selected as Lowest, Middle and Highest channel.

Operation Frequency each of channel for 20MHz Bandwidth					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	914	2	915	3	916

Note:  
1. Channel 1, 2 & 3 selected as Lowest, Middle and Highest channel.

#### 2.4GHz:

Operation Frequency each of channel for 1.4MHz Bandwidth							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2403.5MHz	4	2406.5MHz	....	....	73	2475.5MHz
2	2404.5MHz	5	2407.5MHz	37	2439.5MHz		
3	2405.5MHz	6	2408.5MHz	....	....		

Note:  
1. Channel 1, 37 & 73 selected as Lowest, Middle and Highest channel.

Operation Frequency each of channel for 10MHz Bandwidth							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2407.5MHz	4	2410.5MHz	....	....	64	2470.5MHz
2	2408.5MHz	5	2411.5MHz	33	2439.5MHz	65	2471.5MHz
3	2409.5MHz	6	2412.5MHz	....	....		

Note:  
1. Channel 1, 33 & 65 selected as Lowest, Middle and Highest channel.

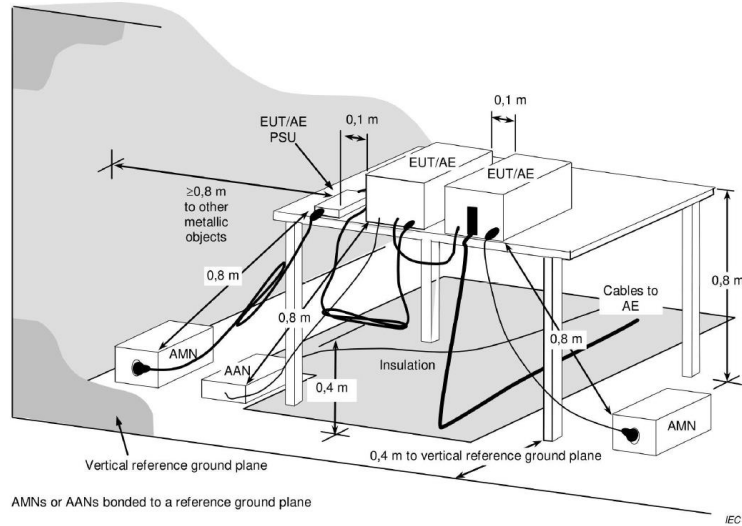
Operation Frequency each of channel for 20MHz Bandwidth							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412.5MHz	4	2415.5MHz	....	....	50	2461.5MHz
2	2413.5MHz	5	2416.5MHz	26	2437.5MHz	51	2462.5MHz
3	2414.5MHz	6	2417.5MHz	....	....		

Note:  
1. Channel 1, 26 & 65 selected as Lowest, Middle and Highest channel.



## 5.2 Test Setup

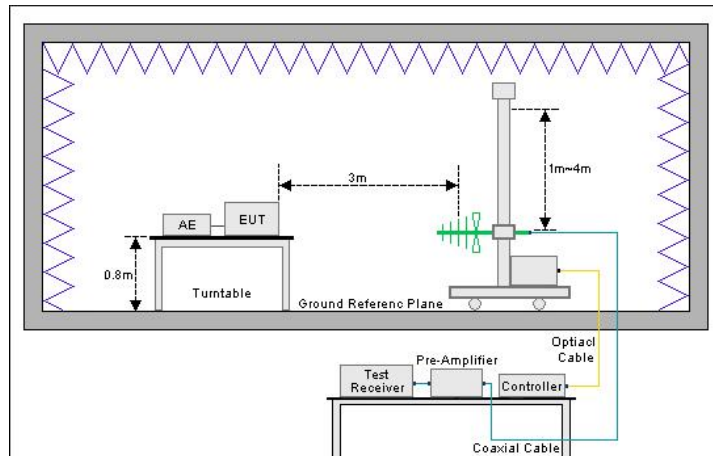
### 1) Conducted emission measurement:



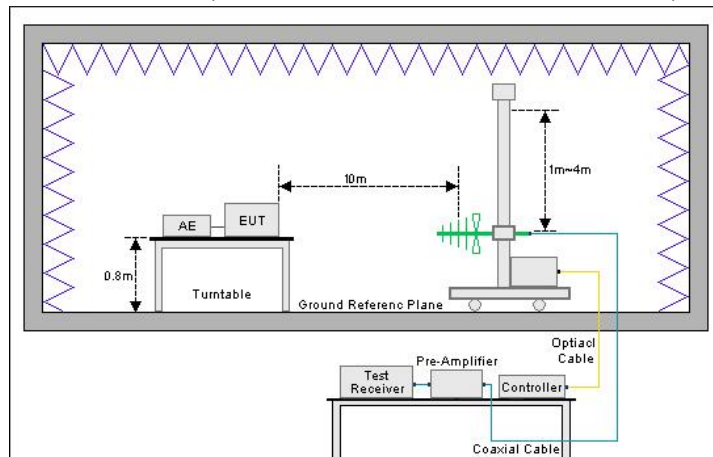
**Note:** The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

### 2) Radiated emission measurement:

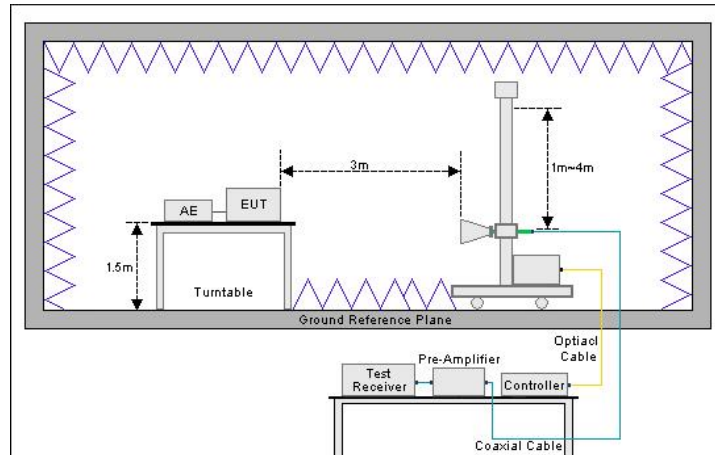
Below 1GHz (3m SAC, for 904.0MHz~926.0MHz,)



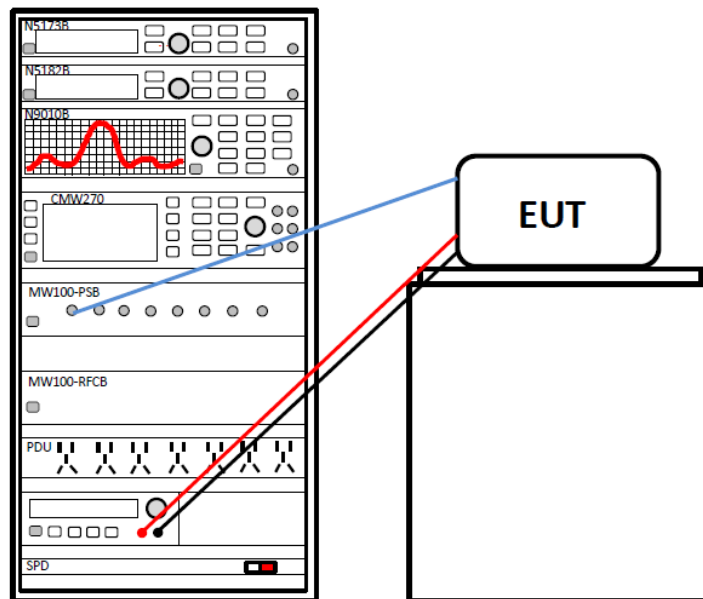
Below 1GHz (10m SAC, for 2403.5MHz~2475.5MHz)



Above 1GHz (3m SAC)



**3) Conducted test method**



### 5.3 Test Procedure

Test method	Test step
Conducted emission	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.</li> </ol>
Radiated emission	<p><b>For below 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 10 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 10 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> <p><b>For above 1GHz:</b></p> <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested , and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol>
Conducted test method	<ol style="list-style-type: none"> <li>1. The Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable.</li> <li>2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.</li> </ol>

## 6 Test Results

### 6.1 Summary

#### 6.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	See Section 6.2	Pass
AC Power Line Conducted Emission	15.207	See Section 6.3	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 900MHz, Appendix A – 2.4GHz	Pass
Conducted Output Power	15.247 (b)(3)	Appendix A – 900MHz, Appendix A – 2.4GHz	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 900MHz, Appendix A – 2.4GHz	Pass
Power Spectral Density	15.247 (e)	Appendix A – 900MHz, Appendix A – 2.4GHz	Pass
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Appendix A – 900MHz, Appendix A – 2.4GHz	Pass
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	See Section 6.4	Pass
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 6.5	Pass
<b>Remark:</b> 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB (provided by the customer).			
<b>Test Method:</b>	ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02		

### 6.1.2 Test Limit

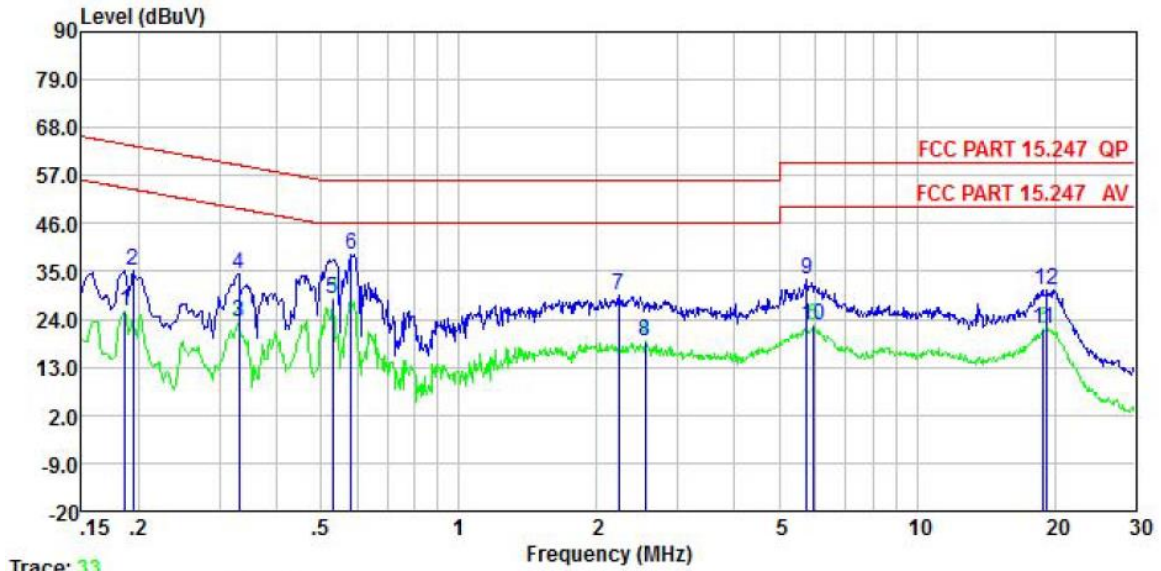
Test items	Limit																														
AC Power Line Conducted Emission	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dB<math>\mu</math>V)</th> </tr> <tr> <th>Quasi-Peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15 – 0.5</td> <td>66 to 56 <small>Note 1</small></td> <td>56 to 46 <small>Note 1</small></td> </tr> <tr> <td>0.5 – 5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5 – 30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p><b>Note 1:</b> The limit level in dB<math>\mu</math>V decreases linearly with the logarithm of frequency.  <b>Note 2:</b> The more stringent limit applies at transition frequencies.</p>	Frequency (MHz)	Limit (dB $\mu$ V)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 <small>Note 1</small>	56 to 46 <small>Note 1</small>	0.5 – 5	56	46	5 – 30	60	50																
Frequency (MHz)	Limit (dB $\mu$ V)																														
	Quasi-Peak	Average																													
0.15 – 0.5	66 to 56 <small>Note 1</small>	56 to 46 <small>Note 1</small>																													
0.5 – 5	56	46																													
5 – 30	60	50																													
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.																														
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.																														
99% Occupied Bandwidth	N/A																														
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.																														
Band-edge Emission  Conduction Spurious Emission	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz 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 limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).																														
Emissions in Restricted Frequency Bands  Emissions in Non-restricted Frequency Bands	<table border="1"> <thead> <tr> <th rowspan="2">Frequency (MHz)</th> <th colspan="2">Limit (dB<math>\mu</math>V/m)</th> <th rowspan="2">Detector</th> </tr> <tr> <th>@ 3m</th> <th>@ 10m</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>40.0</td> <td>30.0</td> <td>Quasi-peak</td> </tr> <tr> <td>88 – 216</td> <td>43.5</td> <td>33.5</td> <td>Quasi-peak</td> </tr> <tr> <td>216 – 960</td> <td>46.0</td> <td>36.0</td> <td>Quasi-peak</td> </tr> <tr> <td>960 – 1000</td> <td>54.0</td> <td>44.0</td> <td>Quasi-peak</td> </tr> </tbody> </table> <p><b>Note:</b> The more stringent limit applies at transition frequencies.</p> <table border="1"> <thead> <tr> <th rowspan="2">Frequency</th> <th colspan="2">Limit (dB<math>\mu</math>V/m) @ 3m</th> </tr> <tr> <th>Average</th> <th>Peake</th> </tr> </thead> <tbody> <tr> <td>Above 1 GHz</td> <td>54.0</td> <td>74.0</td> </tr> </tbody> </table> <p><b>Note:</b> The measurement bandwidth shall be 1 MHz or greater.</p>	Frequency (MHz)	Limit (dB $\mu$ V/m)		Detector	@ 3m	@ 10m	30 – 88	40.0	30.0	Quasi-peak	88 – 216	43.5	33.5	Quasi-peak	216 – 960	46.0	36.0	Quasi-peak	960 – 1000	54.0	44.0	Quasi-peak	Frequency	Limit (dB $\mu$ V/m) @ 3m		Average	Peake	Above 1 GHz	54.0	74.0
Frequency (MHz)	Limit (dB $\mu$ V/m)		Detector																												
	@ 3m	@ 10m																													
30 – 88	40.0	30.0	Quasi-peak																												
88 – 216	43.5	33.5	Quasi-peak																												
216 – 960	46.0	36.0	Quasi-peak																												
960 – 1000	54.0	44.0	Quasi-peak																												
Frequency	Limit (dB $\mu$ V/m) @ 3m																														
	Average	Peake																													
Above 1 GHz	54.0	74.0																													

## 6.2 Antenna Requirement

<b>Standard Requirement:</b>	FCC Part 15 C Section 15.203/15.247 (b)(4)						
<p><b>15.203 requirement:</b> 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, 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.</p> <p><b>15.247 (b)(4) requirement:</b> The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>							
<b>E.U.T Antenna:</b>							
<p>The antenna is an External antenna which cannot replace by end-user, the best case gain of the antenna as bellow:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>ANT Band</th> <th>ANT Gain</th> </tr> </thead> <tbody> <tr> <td>900MHz</td> <td>2.7dBi</td> </tr> <tr> <td>2.4GHz</td> <td>1.1dBi</td> </tr> </tbody> </table>		ANT Band	ANT Gain	900MHz	2.7dBi	2.4GHz	1.1dBi
ANT Band	ANT Gain						
900MHz	2.7dBi						
2.4GHz	1.1dBi						

### 6.3 AC Power Line Conducted Emission

<b>Product name:</b>	Autel Smart Controller SE	<b>Product model:</b>	EF6
<b>Test by:</b>	Mike	<b>Test mode:</b>	900MHz Tx mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Line
<b>Test voltage:</b>	AC 120 V/60 Hz		



Trace: 33

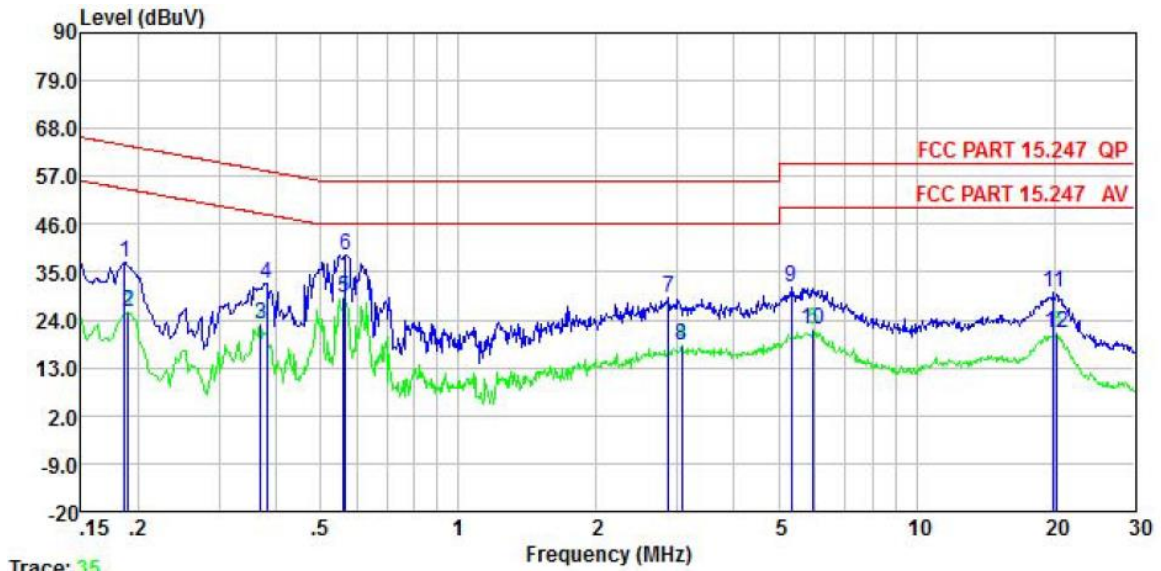
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.186	25.99	0.05	0.02	26.06	54.20	-28.14	Average
2	0.194	35.23	0.05	0.03	35.31	63.84	-28.53	QP
3	0.330	23.34	0.06	0.02	23.42	49.44	-26.02	Average
4	0.330	34.26	0.06	0.02	34.34	59.44	-25.10	QP
5	0.529	28.50	0.05	0.03	28.58	46.00	-17.42	Average
6	0.582	38.84	0.06	0.02	38.92	56.00	-17.08	QP
7	2.237	29.13	0.08	0.17	29.38	56.00	-26.62	QP
8	2.554	18.67	0.09	0.13	18.89	46.00	-27.11	Average
9	5.744	32.92	0.14	0.09	33.15	60.00	-26.85	QP
10	5.961	22.24	0.15	0.09	22.48	50.00	-27.52	Average
11	18.920	21.22	0.33	0.15	21.70	50.00	-28.30	Average
12	19.224	30.35	0.33	0.15	30.83	60.00	-29.17	QP

**Remark:**

1. Level = Read level + LISN Factor + Cable Loss.



<b>Product name:</b>	Autel Smart Controller SE	<b>Product model:</b>	EF6
<b>Test by:</b>	Mike	<b>Test mode:</b>	900MHz Tx mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz		



Trace: 35

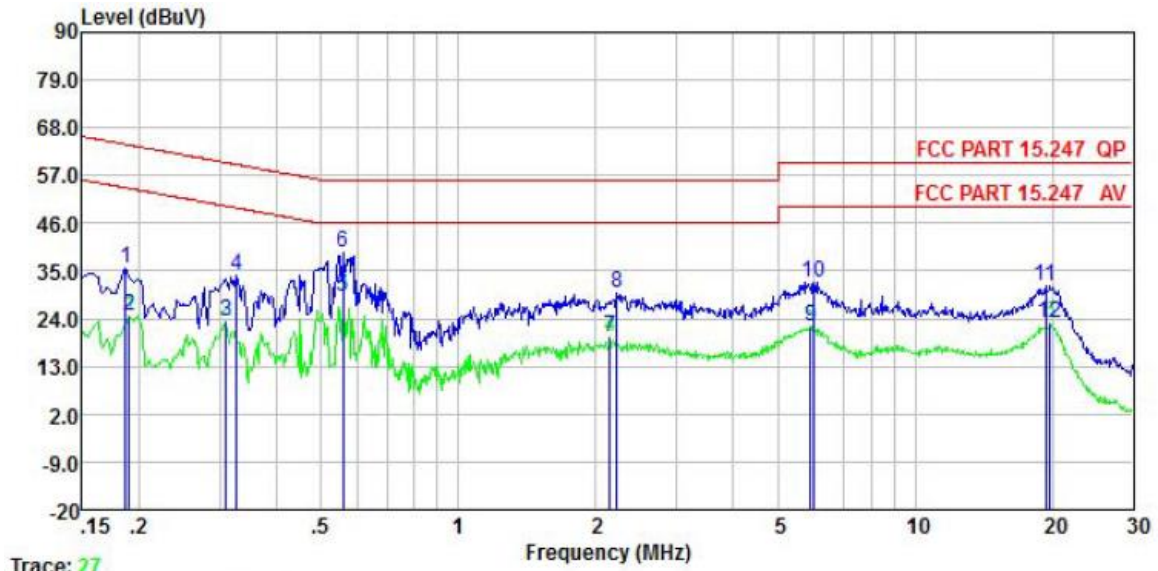
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.186	37.24	0.05	0.02	37.31	64.20	-26.89	QP
2	0.190	25.87	0.05	0.03	25.95	54.02	-28.07	Average
3	0.369	23.07	0.05	0.03	23.15	48.52	-25.37	Average
4	0.381	32.24	0.05	0.03	32.32	58.25	-25.93	QP
5	0.561	28.95	0.05	0.02	29.02	46.00	-16.98	Average
6	0.567	38.81	0.05	0.02	38.88	56.00	-17.12	QP
7	2.869	28.76	0.09	0.08	28.93	56.00	-27.07	QP
8	3.074	17.97	0.09	0.07	18.13	46.00	-27.87	Average
9	5.333	31.36	0.12	0.09	31.57	60.00	-28.43	QP
10	5.961	21.75	0.14	0.09	21.98	50.00	-28.02	Average
11	19.950	29.77	0.33	0.19	30.29	60.00	-29.71	QP
12	20.270	20.53	0.34	0.19	21.06	50.00	-28.94	Average

**Remark:**

1. Level = Read level + LISN Factor + Cable Loss.



<b>Product name:</b>	Autel Smart Controller SE	<b>Product model:</b>	EF6
<b>Test by:</b>	Mike	<b>Test mode:</b>	2.4GHz TX mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Line
<b>Test voltage:</b>	AC 120 V/60 Hz		

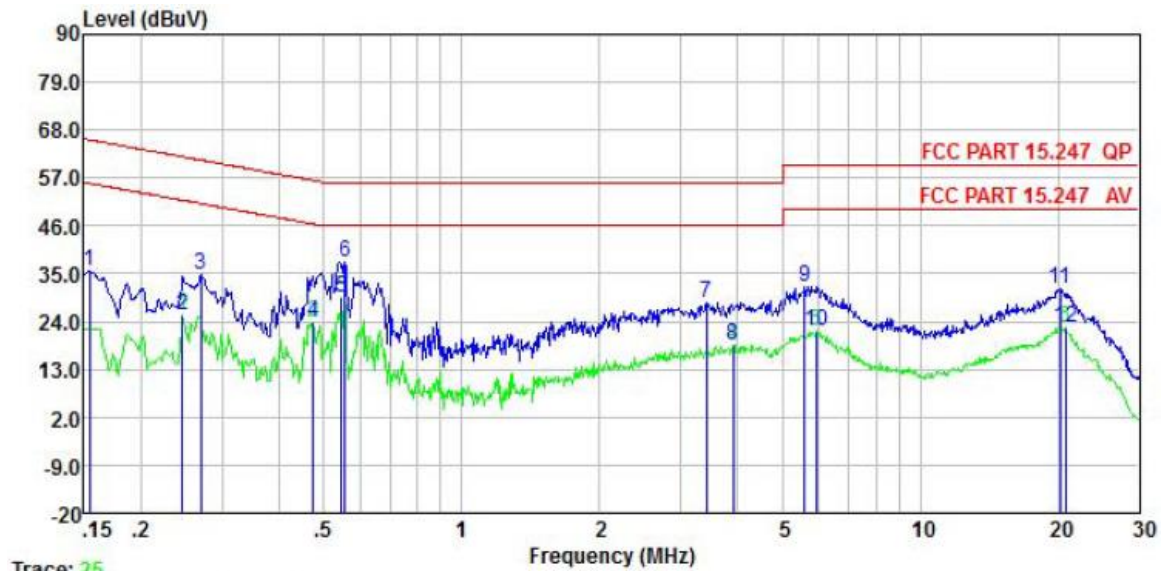


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.186	35.53	0.05	0.02	35.60	64.20	-28.60	QP
2	0.190	24.56	0.05	0.03	24.64	54.02	-29.38	Average
3	0.310	23.37	0.06	0.03	23.46	49.97	-26.51	Average
4	0.327	34.08	0.06	0.02	34.16	59.53	-25.37	QP
5	0.558	28.97	0.06	0.02	29.05	46.00	-16.95	Average
6	0.558	39.06	0.06	0.02	39.14	56.00	-16.86	QP
7	2.144	19.36	0.08	0.18	19.62	46.00	-26.38	Average
8	2.225	29.70	0.08	0.17	29.95	56.00	-26.05	QP
9	5.898	22.17	0.14	0.09	22.40	50.00	-27.60	Average
10	5.993	32.25	0.15	0.09	32.49	60.00	-27.51	QP
11	19.326	31.19	0.33	0.15	31.67	60.00	-28.33	QP
12	19.740	22.36	0.34	0.15	22.85	50.00	-27.15	Average

**Remark:**

1. Level = Read level + LISN Factor + Cable Loss.

<b>Product name:</b>	Autel Smart Controller SE	<b>Product model:</b>	EF6
<b>Test by:</b>	Mike	<b>Test mode:</b>	2.4GHz mode
<b>Test frequency:</b>	150 kHz ~ 30 MHz	<b>Phase:</b>	Neutral
<b>Test voltage:</b>	AC 120 V/60 Hz		



Trace: 25

	Freq	Read	LISN	Cable	Level	Limit	Over	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	35.51	0.06	0.01	35.58	65.78	-30.20	QP
2	0.246	25.48	0.05	0.01	25.54	51.91	-26.37	Average
3	0.270	34.64	0.05	0.02	34.71	61.12	-26.41	QP
4	0.474	23.79	0.04	0.03	23.86	46.45	-22.59	Average
5	0.546	29.29	0.05	0.03	29.37	46.00	-16.63	Average
6	0.555	37.65	0.05	0.02	37.72	56.00	-18.28	QP
7	3.417	28.26	0.10	0.07	28.43	56.00	-27.57	QP
8	3.901	18.50	0.10	0.08	18.68	46.00	-27.32	Average
9	5.594	31.91	0.13	0.09	32.13	60.00	-27.87	QP
10	5.929	21.39	0.13	0.09	21.61	50.00	-28.39	Average
11	20.162	30.83	0.33	0.19	31.35	60.00	-28.65	QP
12	20.704	22.06	0.34	0.18	22.58	50.00	-27.42	Average

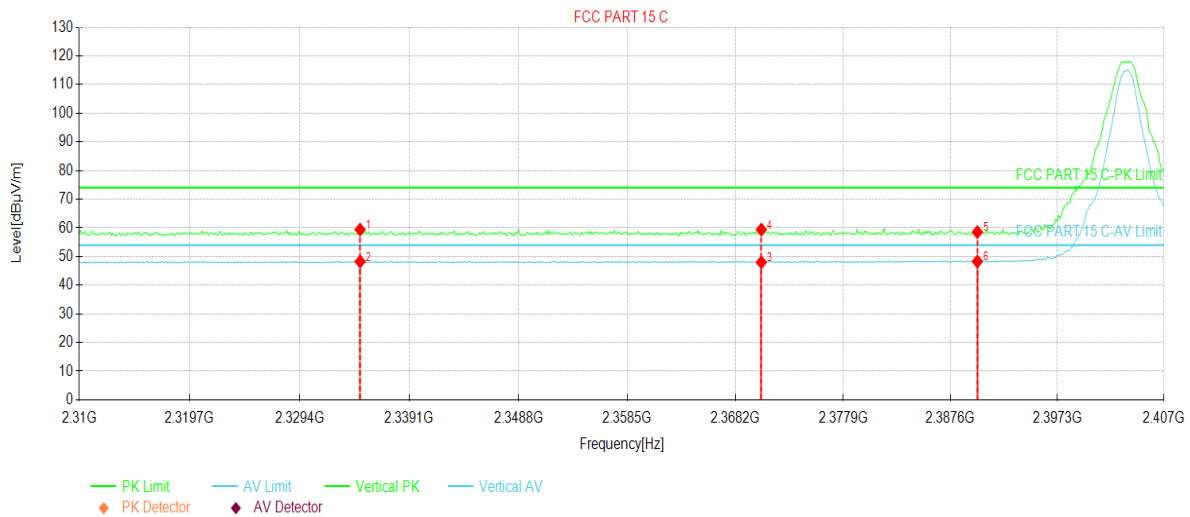
**Remark:**

1. Level = Read level + LISN Factor + Cable Loss.

## 6.4 Emissions in Restricted Frequency Bands

### 2.4GHz:

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M QPSK Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

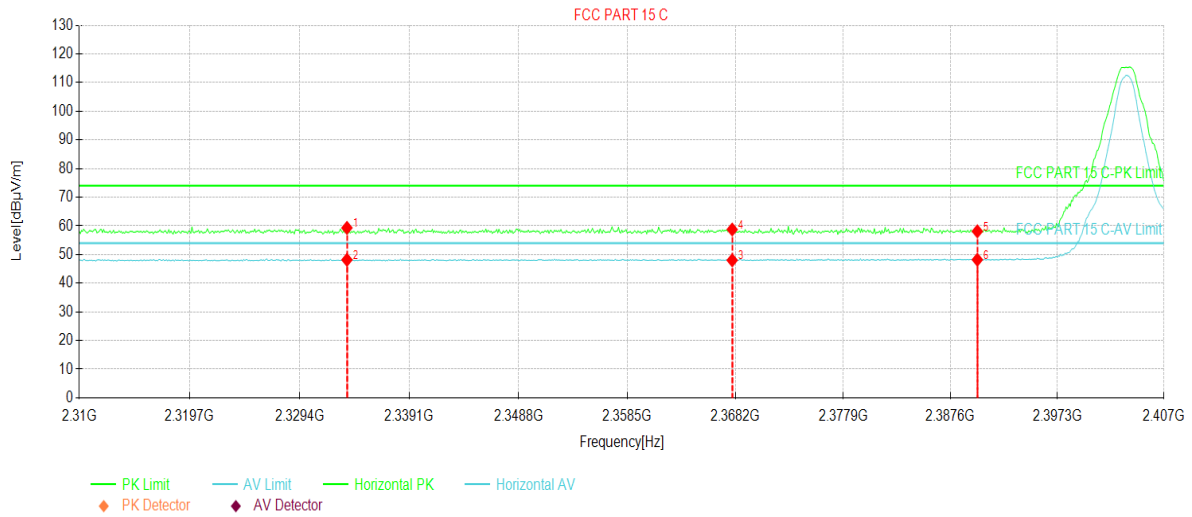


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2334.73	24.23	59.41	35.18	74.00	14.59	PK	Vertical
2	2334.73	13.08	48.26	35.18	54.00	5.74	AV	Vertical
3	2370.52	12.55	48.00	35.45	54.00	6.00	AV	Vertical
4	2370.52	23.96	59.41	35.45	74.00	14.59	PK	Vertical
5	2390.02	22.93	58.53	35.60	74.00	15.47	PK	Vertical
6	2390.02	12.70	48.30	35.60	54.00	5.70	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M QPSK Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

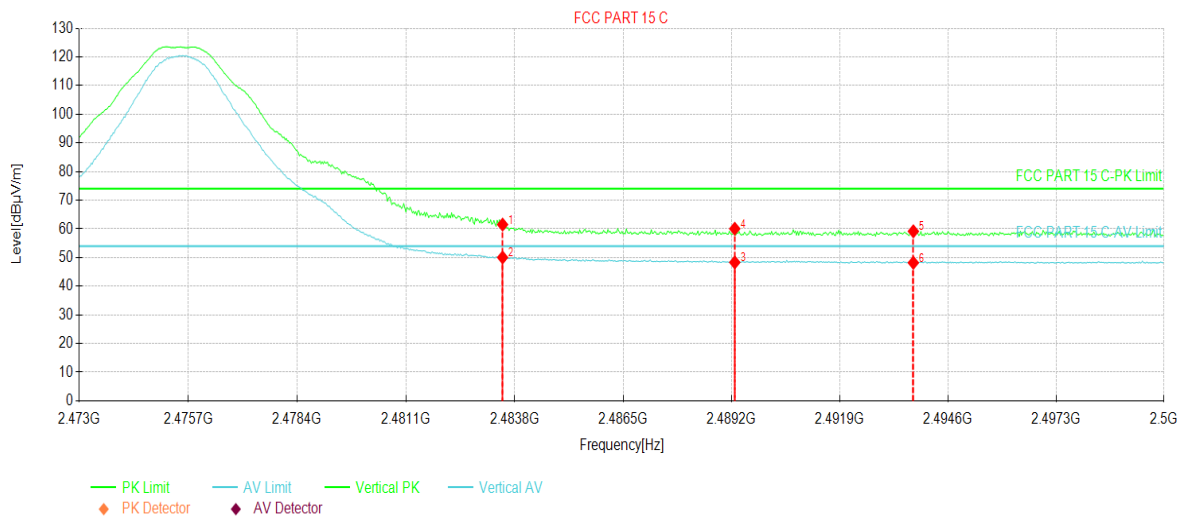


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2333.57	24.15	59.32	35.17	74.00	14.68	PK	Horizontal
2	2333.57	13.00	48.17	35.17	54.00	5.83	AV	Horizontal
3	2367.90	12.58	48.01	35.43	54.00	5.99	AV	Horizontal
4	2367.90	23.32	58.75	35.43	74.00	15.25	PK	Horizontal
5	2390.02	22.51	58.11	35.60	74.00	15.89	PK	Horizontal
6	2390.02	12.61	48.21	35.60	54.00	5.79	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

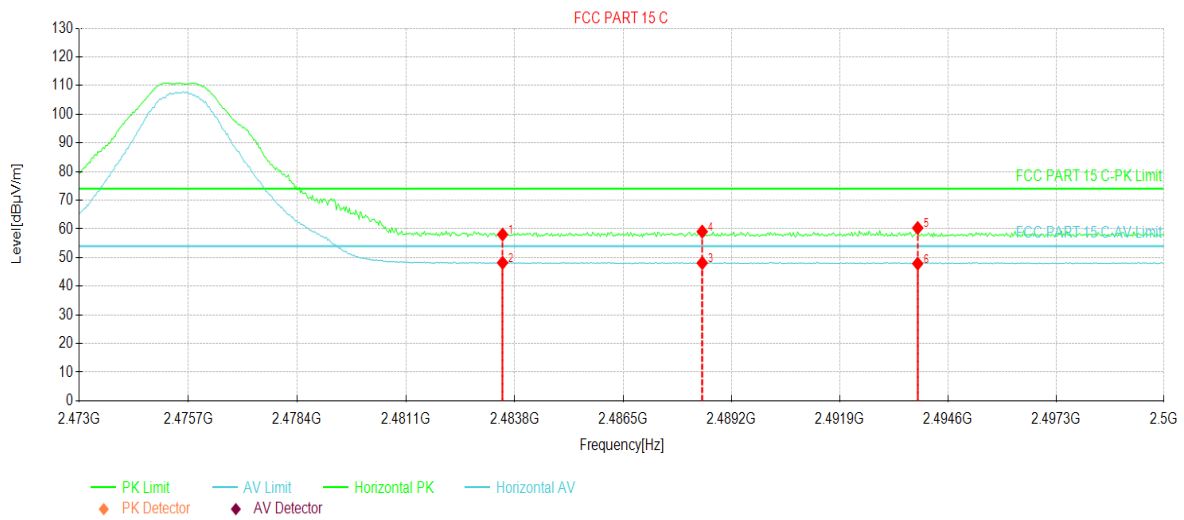


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	26.00	61.51	35.51	74.00	12.49	PK	Vertical
2	2483.50	14.53	50.04	35.51	54.00	3.96	AV	Vertical
3	2489.28	12.82	48.32	35.50	54.00	5.68	AV	Vertical
4	2489.28	24.56	60.06	35.50	74.00	13.94	PK	Vertical
5	2493.73	23.67	59.16	35.49	74.00	14.84	PK	Vertical
6	2493.73	12.70	48.19	35.49	54.00	5.81	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



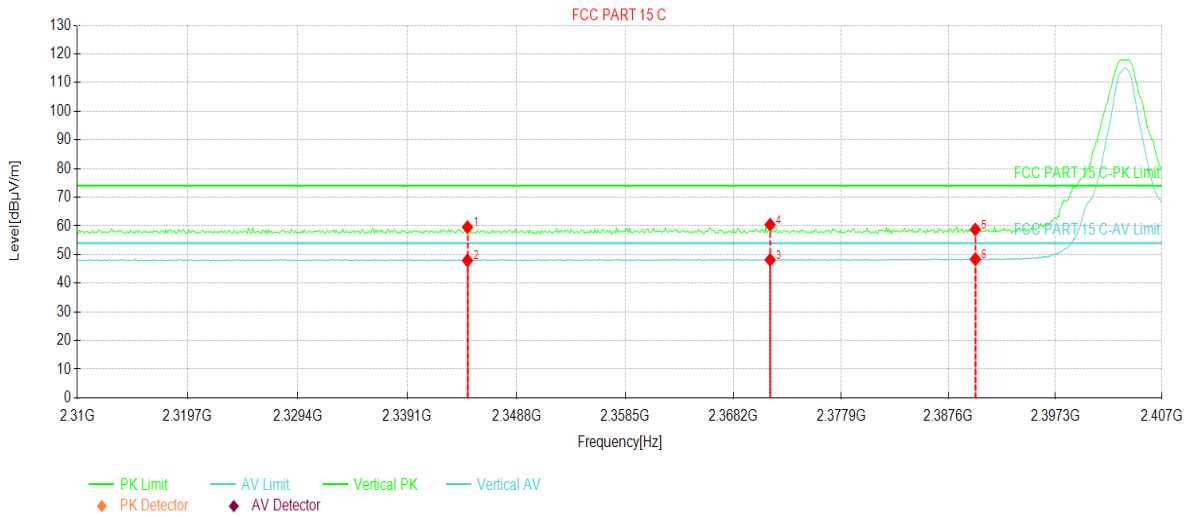
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.52	58.03	35.51	74.00	15.97	PK	Horizontal
2	2483.50	12.67	48.18	35.51	54.00	5.82	AV	Horizontal
3	2488.47	12.61	48.11	35.50	54.00	5.89	AV	Horizontal
4	2488.47	23.55	59.05	35.50	74.00	14.95	PK	Horizontal
5	2493.84	24.83	60.32	35.49	74.00	13.68	PK	Horizontal
6	2493.84	12.39	47.88	35.49	54.00	6.12	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M 16QAM Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		



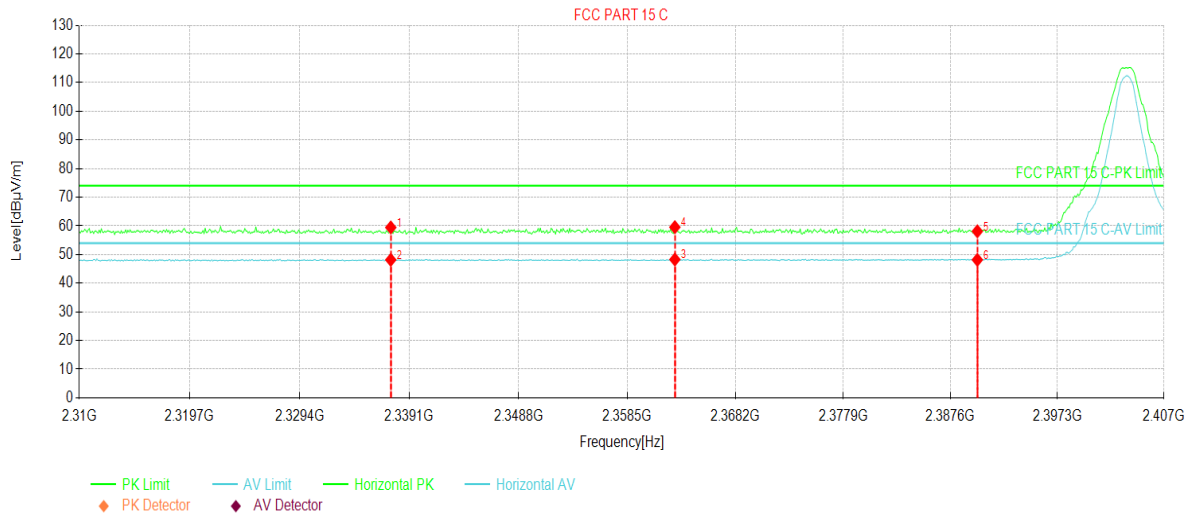
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2344.43	24.30	59.55	35.25	74.00	14.45	PK	Vertical
2	2344.43	12.69	47.94	35.25	54.00	6.06	AV	Vertical
3	2371.49	12.69	48.15	35.46	54.00	5.85	AV	Vertical
4	2371.49	24.96	60.42	35.46	74.00	13.58	PK	Vertical
5	2390.02	23.13	58.73	35.60	74.00	15.27	PK	Vertical
6	2390.02	12.79	48.39	35.60	54.00	5.61	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M 16QAM Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



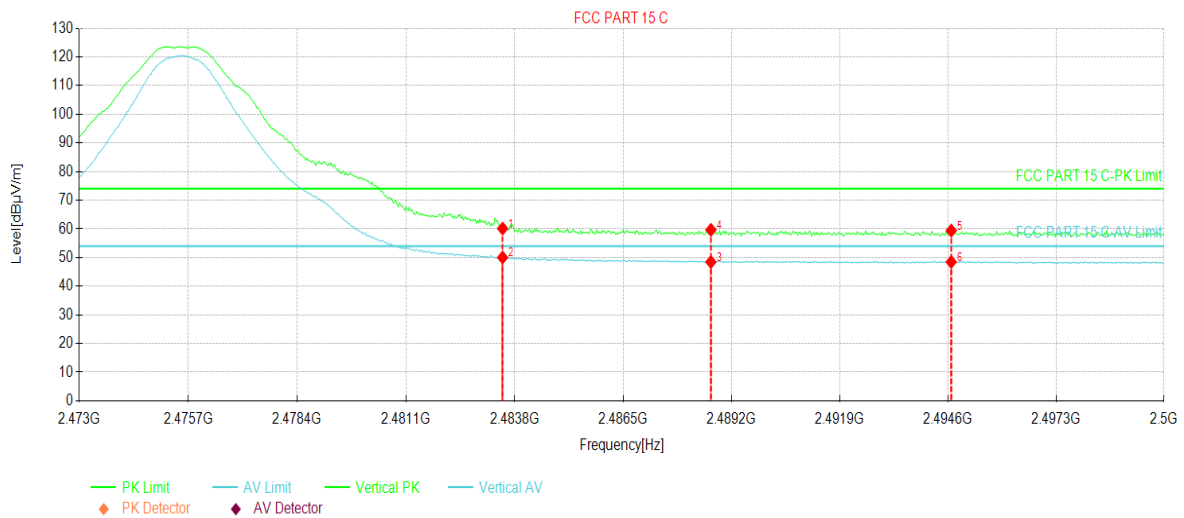
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2337.45	24.26	59.46	35.20	74.00	14.54	PK	Horizontal
2	2337.45	12.96	48.16	35.20	54.00	5.84	AV	Horizontal
3	2362.76	12.90	48.29	35.39	54.00	5.71	AV	Horizontal
4	2362.76	24.17	59.56	35.39	74.00	14.44	PK	Horizontal
5	2390.02	22.51	58.11	35.60	74.00	15.89	PK	Horizontal
6	2390.02	12.57	48.17	35.60	54.00	5.83	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

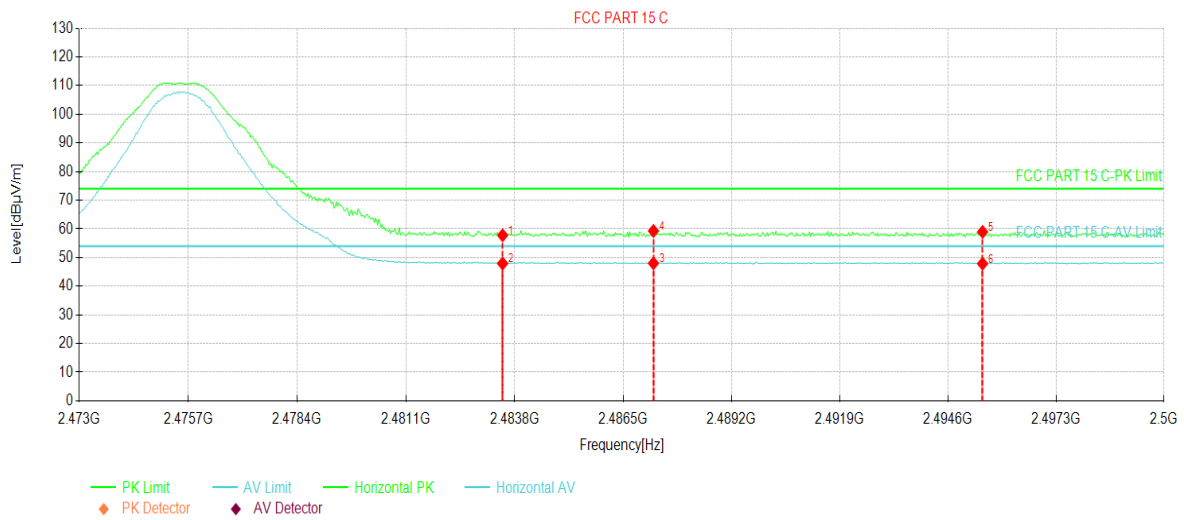


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	24.61	60.12	35.51	74.00	13.88	PK	Vertical
2	2483.50	14.51	50.02	35.51	54.00	3.98	AV	Vertical
3	2488.68	12.95	48.45	35.50	54.00	5.55	AV	Vertical
4	2488.68	24.16	59.66	35.50	74.00	14.34	PK	Vertical
5	2494.68	23.92	59.41	35.49	74.00	14.59	PK	Vertical
6	2494.68	12.97	48.46	35.49	54.00	5.54	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

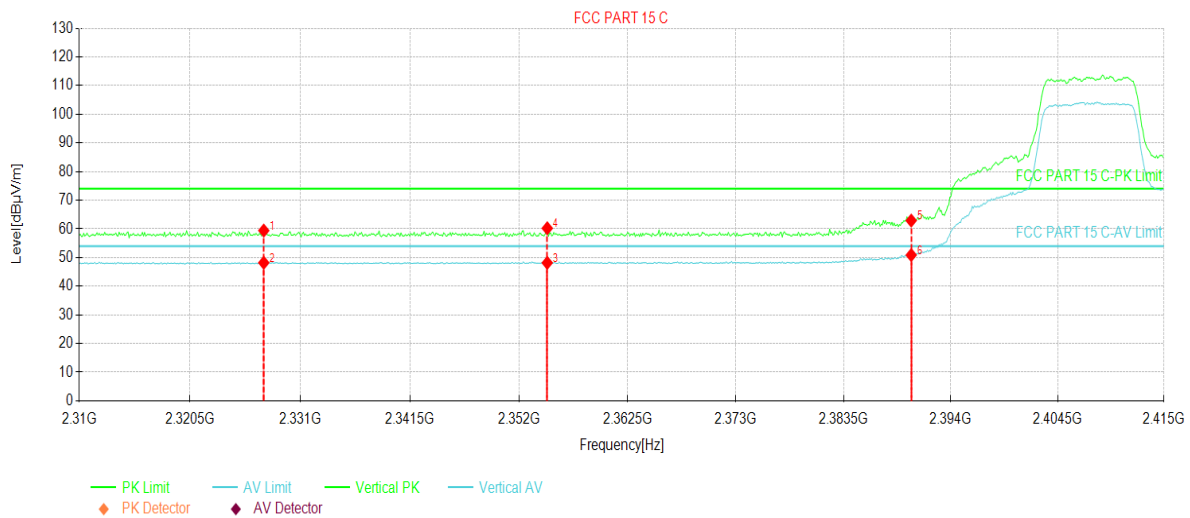


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.50	22.27	57.78	35.51	74.00	16.22	PK	Horizontal
2	2483.50	12.43	47.94	35.51	54.00	6.06	AV	Horizontal
3	2487.25	12.51	48.01	35.50	54.00	5.99	AV	Horizontal
4	2487.25	23.79	59.29	35.50	74.00	14.71	PK	Horizontal
5	2495.46	23.47	58.96	35.49	74.00	15.04	PK	Horizontal
6	2495.46	12.38	47.87	35.49	54.00	6.13	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M QPSK Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

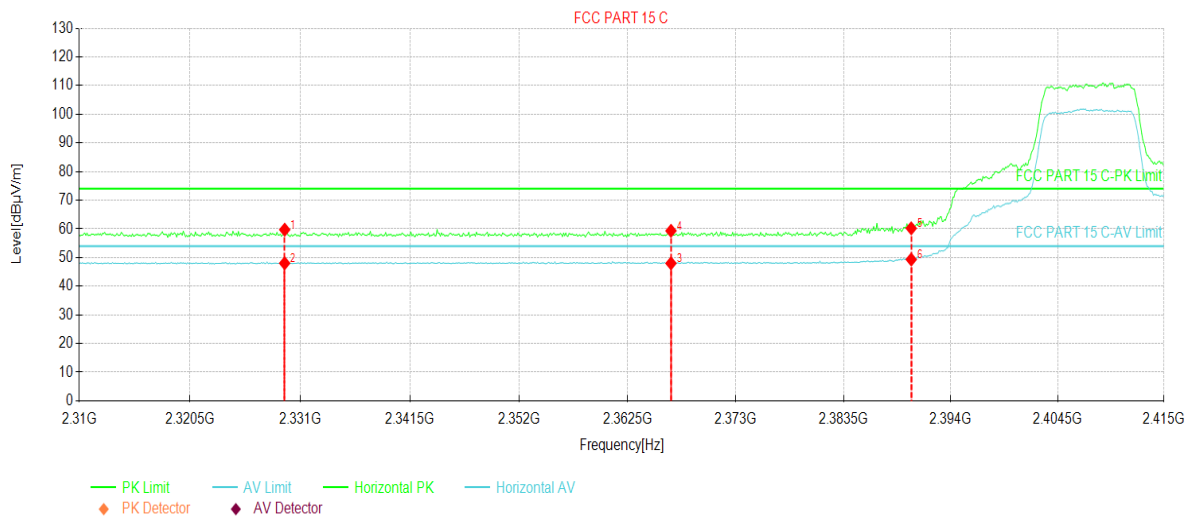


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2327.53	24.29	59.42	35.13	74.00	14.58	PK	Vertical
2	2327.53	13.06	48.19	35.13	54.00	5.81	AV	Vertical
3	2354.73	12.83	48.16	35.33	54.00	5.84	AV	Vertical
4	2354.73	24.89	60.22	35.33	74.00	13.78	PK	Vertical
5	2390.11	27.30	62.90	35.60	74.00	11.10	PK	Vertical
6	2390.11	15.28	50.88	35.60	54.00	3.12	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M QPSK Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

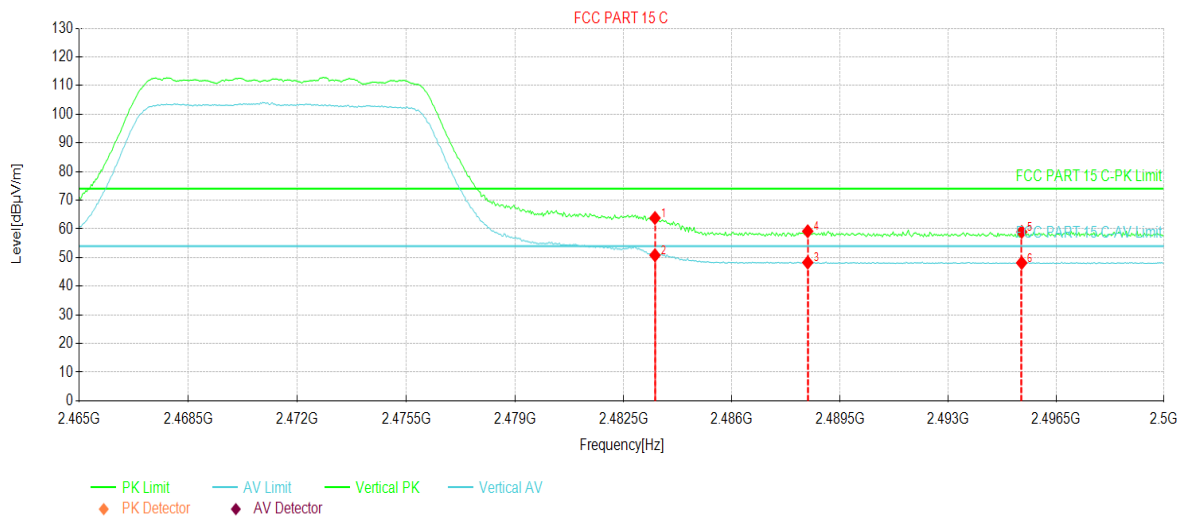


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2329.53	24.59	59.73	35.14	74.00	14.27	PK	Horizontal
2	2329.53	12.88	48.02	35.14	54.00	5.98	AV	Horizontal
3	2366.70	12.57	47.99	35.42	54.00	6.01	AV	Horizontal
4	2366.70	23.91	59.33	35.42	74.00	14.67	PK	Horizontal
5	2390.11	24.60	60.20	35.60	74.00	13.80	PK	Horizontal
6	2390.11	13.72	49.32	35.60	54.00	4.68	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		



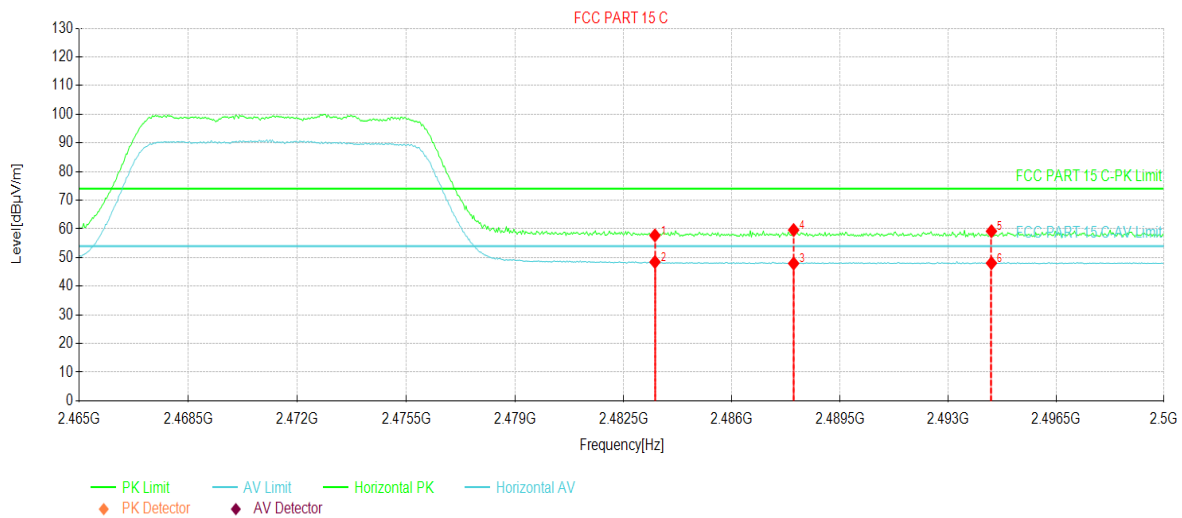
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.51	28.28	63.79	35.51	74.00	10.21	PK	Vertical
2	2483.51	15.31	50.82	35.51	54.00	3.18	AV	Vertical
3	2488.45	12.77	48.27	35.50	54.00	5.73	AV	Vertical
4	2488.45	23.69	59.19	35.50	74.00	14.81	PK	Vertical
5	2495.38	23.48	58.97	35.49	74.00	15.03	PK	Vertical
6	2495.38	12.66	48.15	35.49	54.00	5.85	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



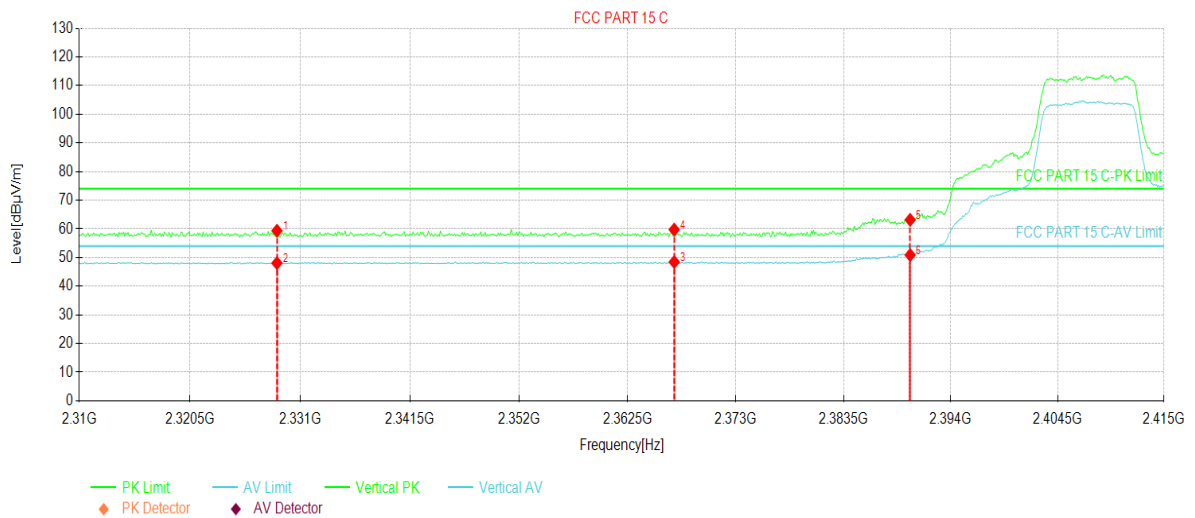
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.51	22.22	57.73	35.51	74.00	16.27	PK	Horizontal
2	2483.51	12.94	48.45	35.51	54.00	5.55	AV	Horizontal
3	2487.99	12.45	47.95	35.50	54.00	6.05	AV	Horizontal
4	2487.99	24.11	59.61	35.50	74.00	14.39	PK	Horizontal
5	2494.40	23.70	59.19	35.49	74.00	14.81	PK	Horizontal
6	2494.40	12.57	48.06	35.49	54.00	5.94	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M 16QAM Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		



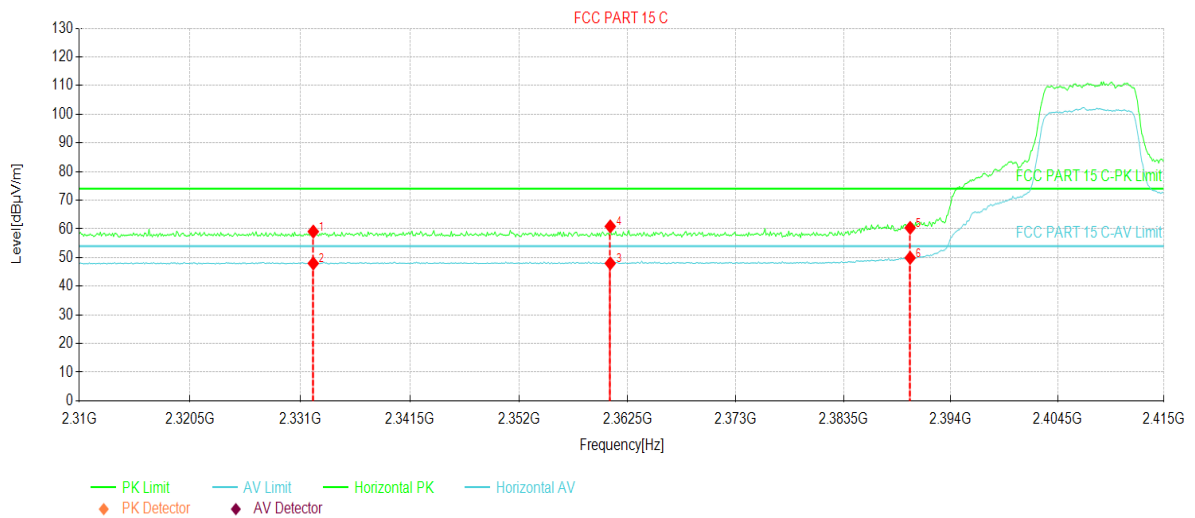
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2328.79	24.21	59.35	35.14	74.00	14.65	PK	Vertical
2	2328.79	12.94	48.08	35.14	54.00	5.92	AV	Vertical
3	2367.01	13.05	48.47	35.42	54.00	5.53	AV	Vertical
4	2367.01	24.33	59.75	35.42	74.00	14.25	PK	Vertical
5	2390.01	27.56	63.16	35.60	74.00	10.84	PK	Vertical
6	2390.01	15.29	50.89	35.60	54.00	3.11	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M 16QAM Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



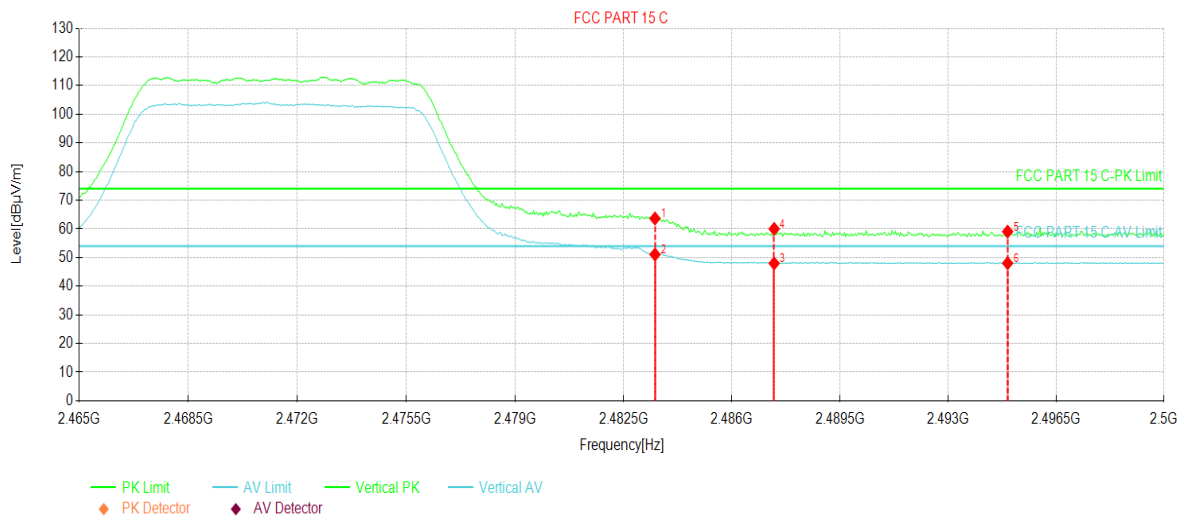
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2332.26	23.91	59.07	35.16	74.00	14.93	PK	Horizontal
2	2332.26	12.80	47.96	35.16	54.00	6.04	AV	Horizontal
3	2360.82	12.60	47.98	35.38	54.00	6.02	AV	Horizontal
4	2360.82	25.49	60.87	35.38	74.00	13.13	PK	Horizontal
5	2390.01	24.76	60.36	35.60	74.00	13.64	PK	Horizontal
6	2390.01	14.31	49.91	35.60	54.00	4.09	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

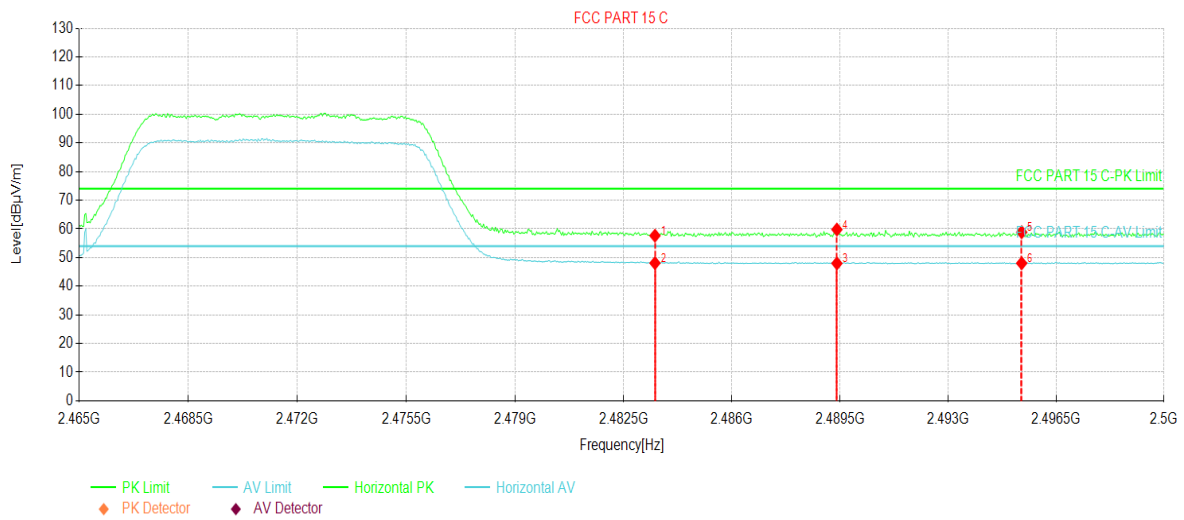


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.51	28.11	63.62	35.51	74.00	10.38	PK	Vertical
2	2483.51	15.57	51.08	35.51	54.00	2.92	AV	Vertical
3	2487.36	12.46	47.96	35.50	54.00	6.04	AV	Vertical
4	2487.36	24.50	60.00	35.50	74.00	14.00	PK	Vertical
5	2494.92	23.56	59.05	35.49	74.00	14.95	PK	Vertical
6	2494.92	12.55	48.04	35.49	54.00	5.96	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



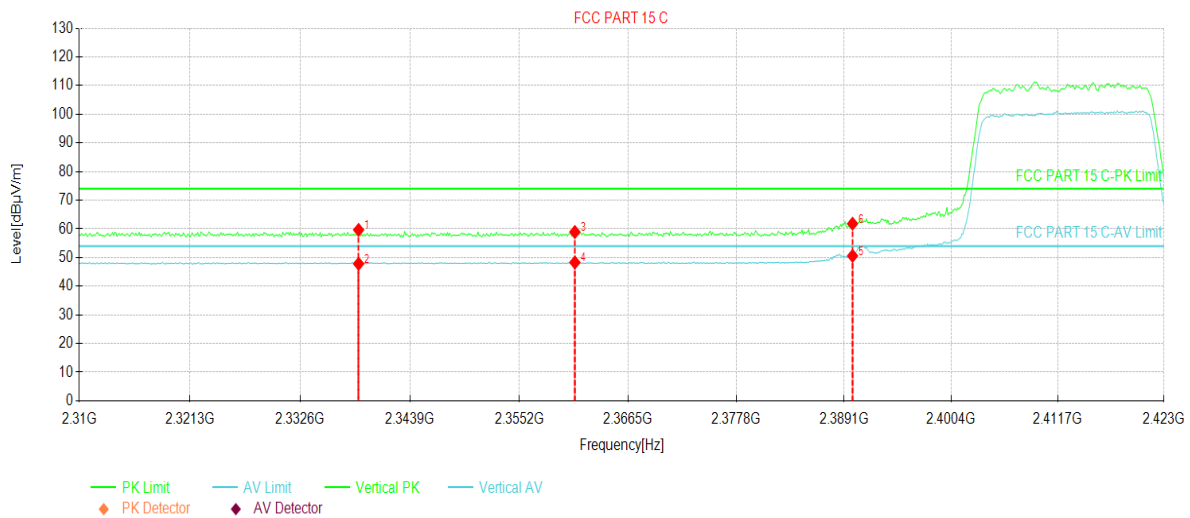
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.51	22.13	57.64	35.51	74.00	16.36	PK	Horizontal
2	2483.51	12.56	48.07	35.51	54.00	5.93	AV	Horizontal
3	2489.39	12.46	47.96	35.50	54.00	6.04	AV	Horizontal
4	2489.39	24.28	59.78	35.50	74.00	14.22	PK	Horizontal
5	2495.38	23.36	58.85	35.49	74.00	15.15	PK	Horizontal
6	2495.38	12.54	48.03	35.49	54.00	5.97	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M QPSK Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

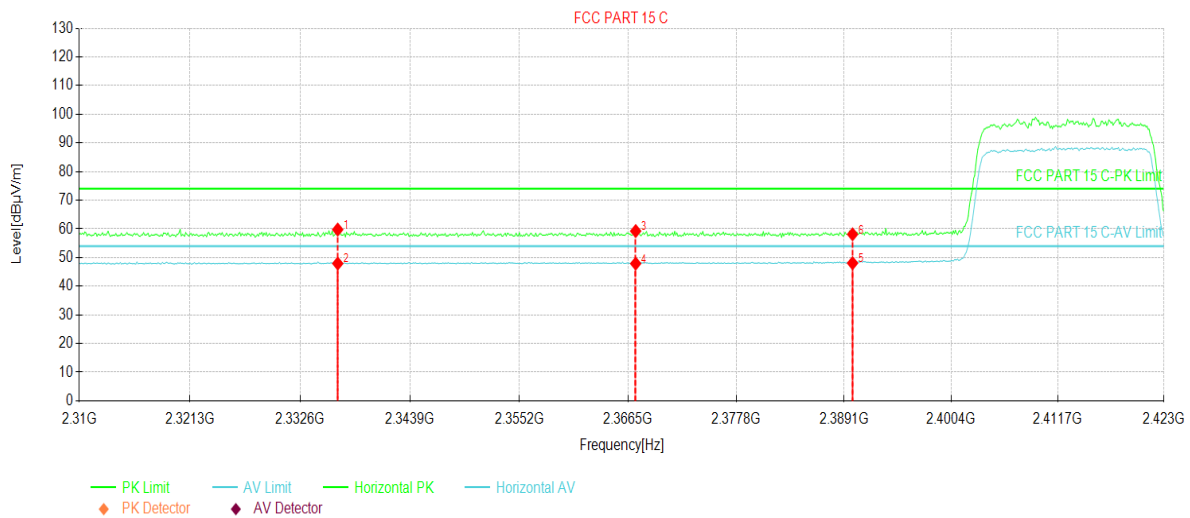


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2338.58	24.46	59.67	35.21	74.00	14.33	PK	Vertical
2	2338.58	12.61	47.82	35.21	54.00	6.18	AV	Vertical
3	2360.96	23.55	58.93	35.38	74.00	15.07	PK	Vertical
4	2360.96	12.92	48.30	35.38	54.00	5.70	AV	Vertical
5	2390.00	15.00	50.60	35.60	54.00	3.40	AV	Vertical
6	2390.00	26.20	61.80	35.60	74.00	12.20	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M QPSK Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

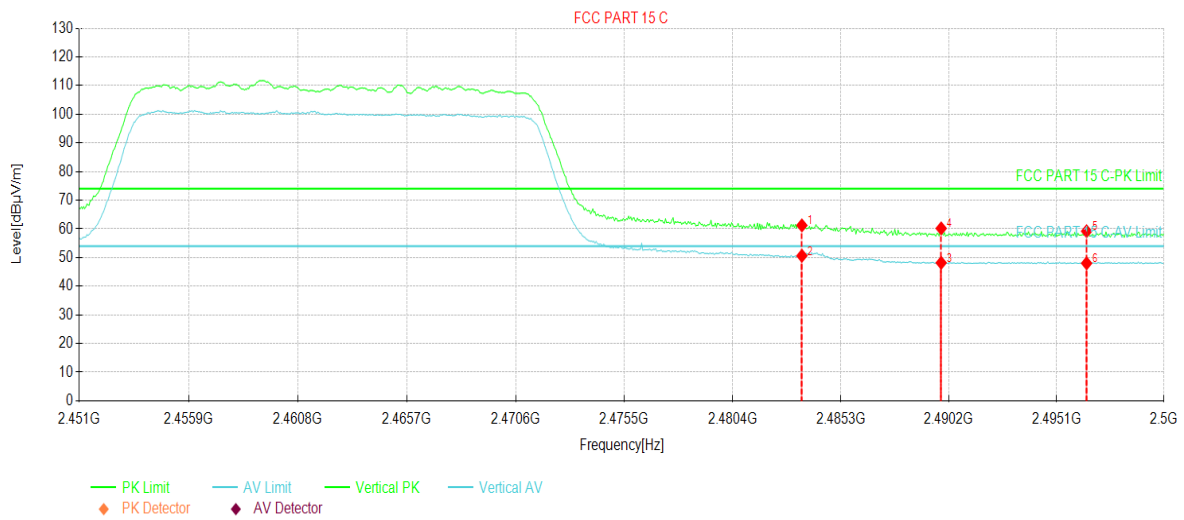


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2336.44	24.58	59.77	35.19	74.00	14.23	PK	Horizontal
2	2336.44	12.74	47.93	35.19	54.00	6.07	AV	Horizontal
3	2367.29	23.83	59.25	35.42	74.00	14.75	PK	Horizontal
4	2367.29	12.48	47.90	35.42	54.00	6.10	AV	Horizontal
5	2390.00	12.47	48.07	35.60	54.00	5.93	AV	Horizontal
6	2390.00	22.52	58.12	35.60	74.00	15.88	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

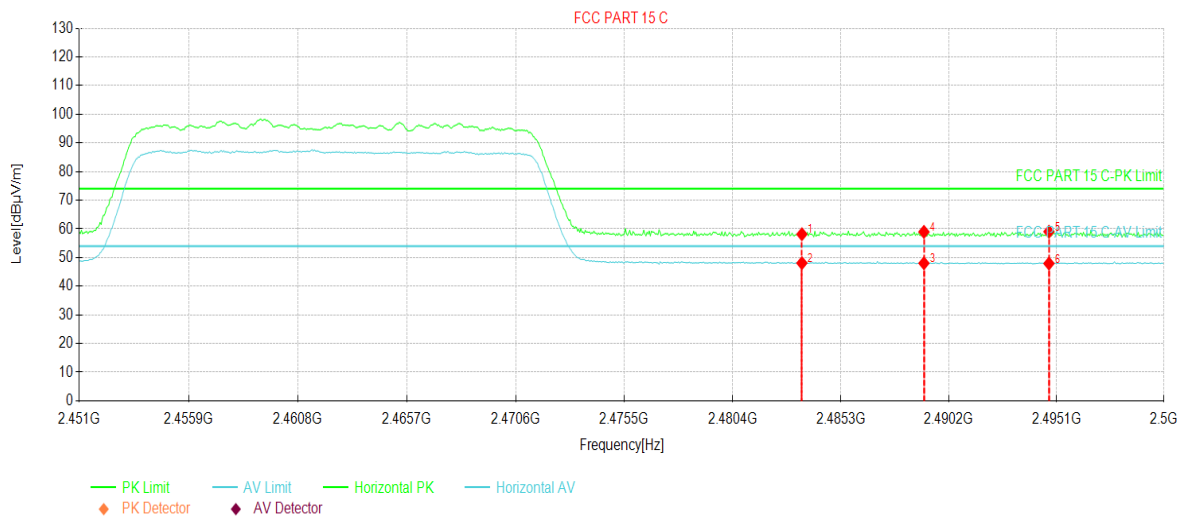


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.53	25.71	61.22	35.51	74.00	12.78	PK	Vertical
2	2483.53	15.11	50.62	35.51	54.00	3.38	AV	Vertical
3	2489.85	12.66	48.16	35.50	54.00	5.84	AV	Vertical
4	2489.85	24.67	60.17	35.50	74.00	13.83	PK	Vertical
5	2496.47	23.69	59.18	35.49	74.00	14.82	PK	Vertical
6	2496.47	12.52	48.01	35.49	54.00	5.99	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

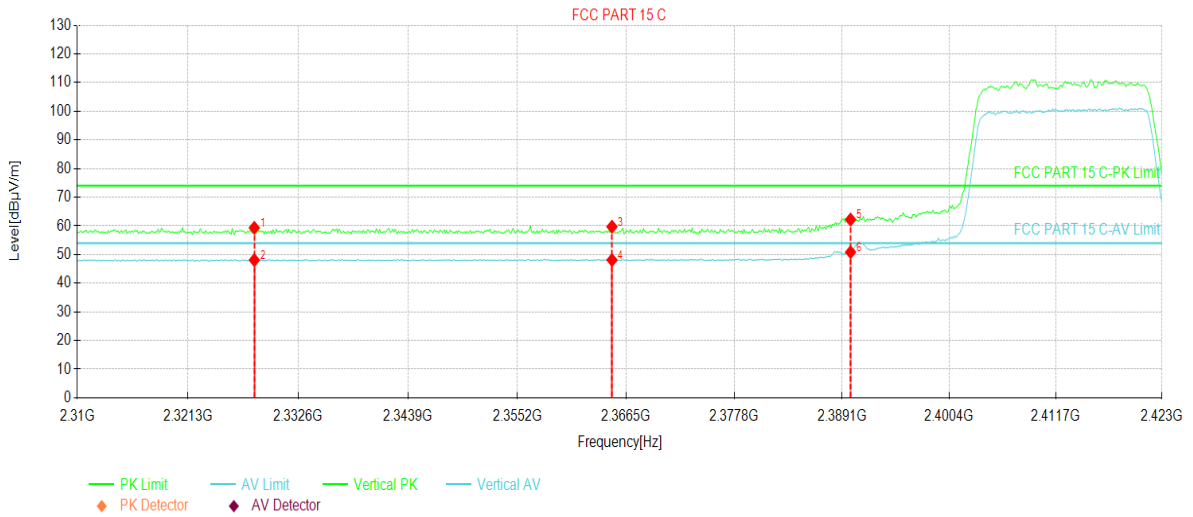


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.53	22.63	58.14	35.51	74.00	15.86	PK	Horizontal
2	2483.53	12.57	48.08	35.51	54.00	5.92	AV	Horizontal
3	2489.07	12.53	48.03	35.50	54.00	5.97	AV	Horizontal
4	2489.07	23.46	58.96	35.50	74.00	15.04	PK	Horizontal
5	2494.75	23.54	59.03	35.49	74.00	14.97	PK	Horizontal
6	2494.75	12.43	47.92	35.49	54.00	6.08	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M 16QAM Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

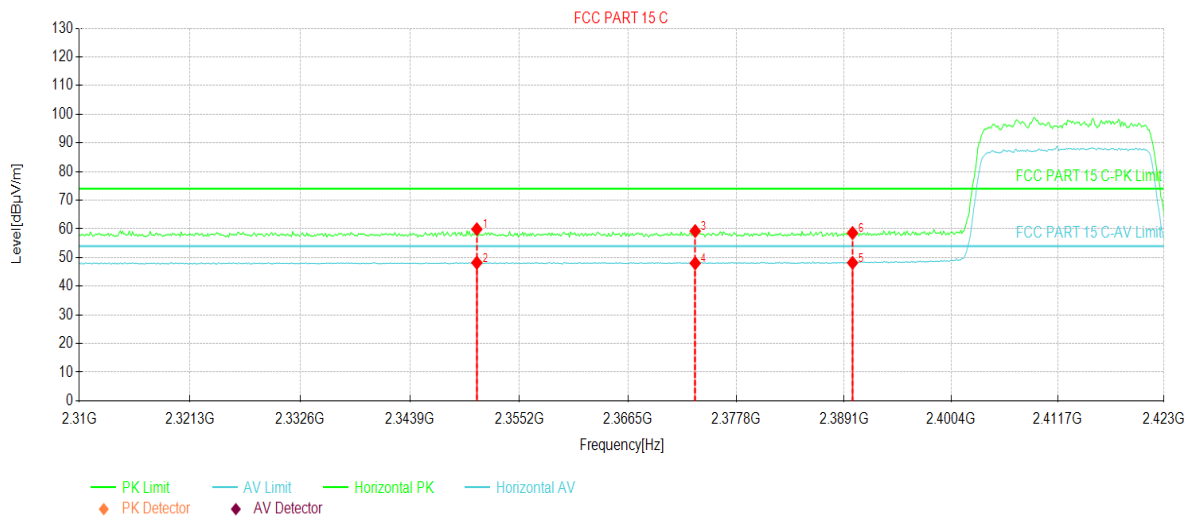


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2328.08	24.21	59.34	35.13	74.00	14.66	PK	Vertical
2	2328.08	12.94	48.07	35.13	54.00	5.93	AV	Vertical
3	2365.03	24.31	59.72	35.41	74.00	14.28	PK	Vertical
4	2365.03	12.68	48.09	35.41	54.00	5.91	AV	Vertical
5	2390.00	26.62	62.22	35.60	74.00	11.78	PK	Vertical
6	2390.00	15.24	50.84	35.60	54.00	3.16	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M 16QAM Tx mode
<b>Test Channel:</b>	Lowest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



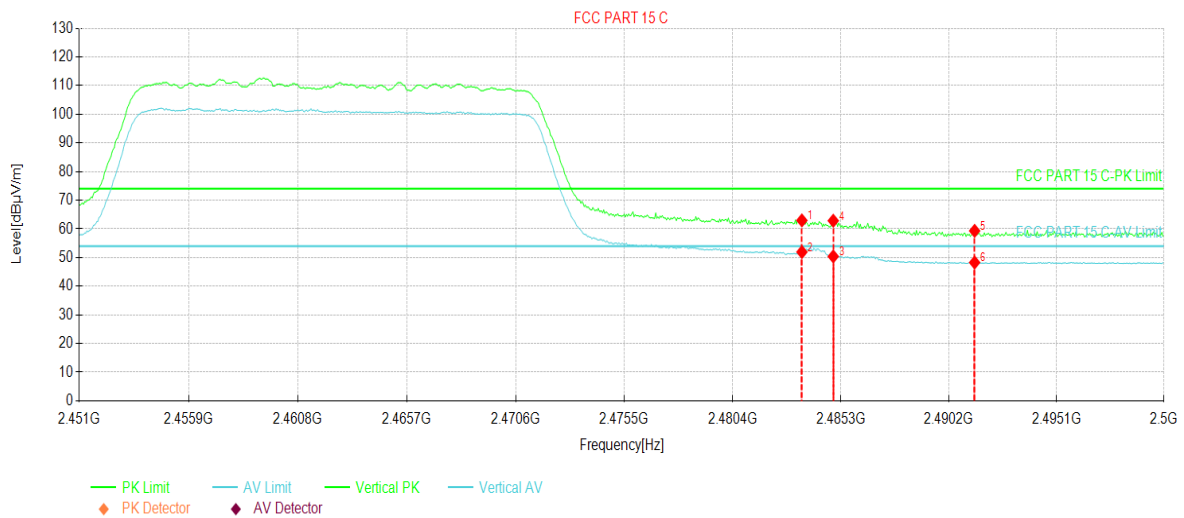
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2350.79	24.59	59.89	35.30	74.00	14.11	PK	Horizontal
2	2350.79	12.89	48.19	35.30	54.00	5.81	AV	Horizontal
3	2373.50	23.78	59.25	35.47	74.00	14.75	PK	Horizontal
4	2373.50	12.55	48.02	35.47	54.00	5.98	AV	Horizontal
5	2390.00	12.56	48.16	35.60	54.00	5.84	AV	Horizontal
6	2390.00	22.97	58.57	35.60	74.00	15.43	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

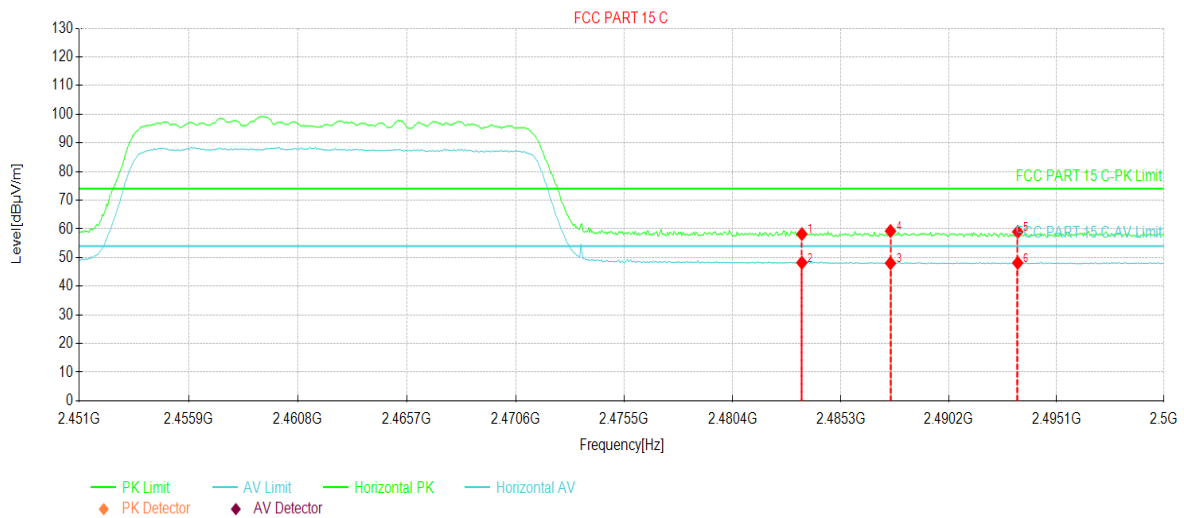


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.53	27.46	62.97	35.51	74.00	11.03	PK	Vertical
2	2483.53	16.42	51.93	35.51	54.00	2.07	AV	Vertical
3	2484.95	14.88	50.39	35.51	54.00	3.61	AV	Vertical
4	2484.95	27.35	62.86	35.51	74.00	11.14	PK	Vertical
5	2491.37	23.82	59.32	35.50	74.00	14.68	PK	Vertical
6	2491.37	12.78	48.28	35.50	54.00	5.72	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



**Suspected Data List**

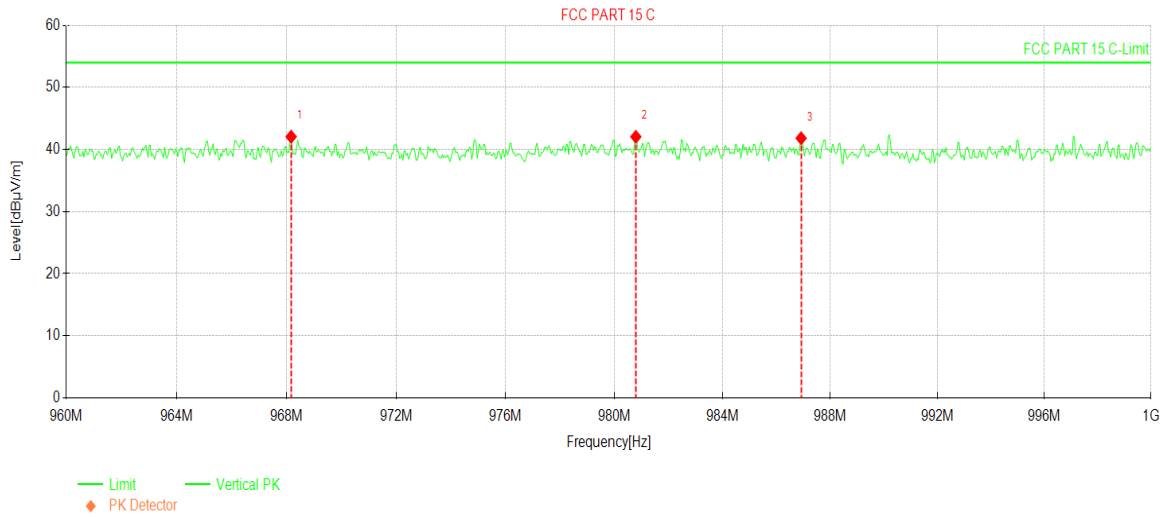
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	2483.53	22.67	58.18	35.51	74.00	15.82	PK	Horizontal
2	2483.53	12.70	48.21	35.51	54.00	5.79	AV	Horizontal
3	2487.55	12.53	48.03	35.50	54.00	5.97	AV	Horizontal
4	2487.55	23.75	59.25	35.50	74.00	14.75	PK	Horizontal
5	2493.33	23.47	58.96	35.49	74.00	15.04	PK	Horizontal
6	2493.33	12.65	48.14	35.49	54.00	5.86	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

900MHz:

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

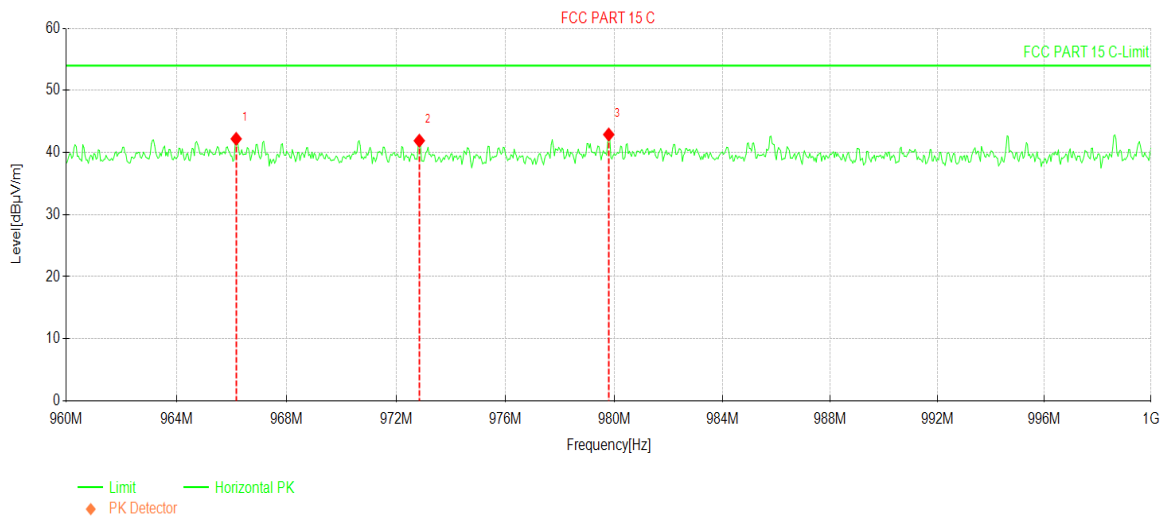


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	968.160	15.36	42.05	26.69	54.00	11.95	PK	Vertical
2	980.800	15.26	42.04	26.78	54.00	11.96	PK	Vertical
3	986.920	14.99	41.81	26.82	54.00	12.19	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

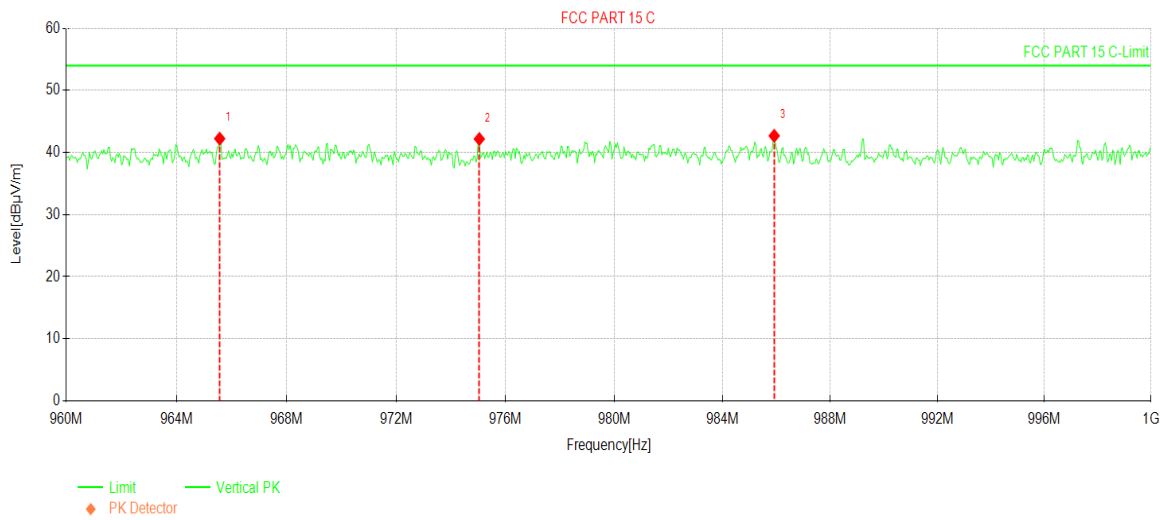


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	966.160	15.52	42.19	26.67	54.00	11.81	PK	Horizontal
2	972.840	15.16	41.89	26.73	54.00	12.11	PK	Horizontal
3	979.800	16.12	42.89	26.77	54.00	11.11	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

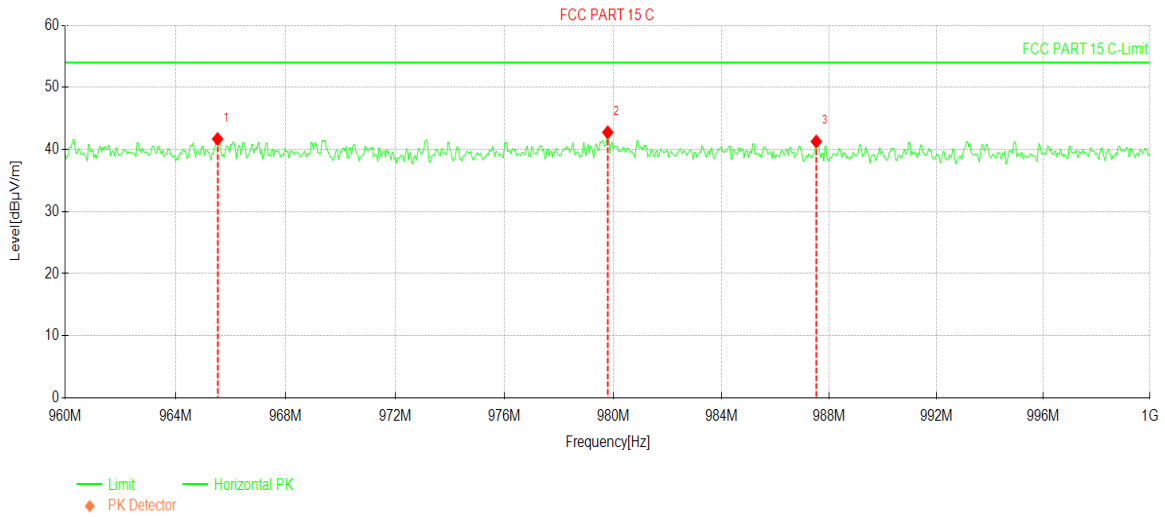


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	965.560	15.56	42.22	26.66	54.00	11.78	PK	Vertical
2	975.040	15.43	42.17	26.74	54.00	11.83	PK	Vertical
3	985.920	15.87	42.68	26.81	54.00	11.32	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

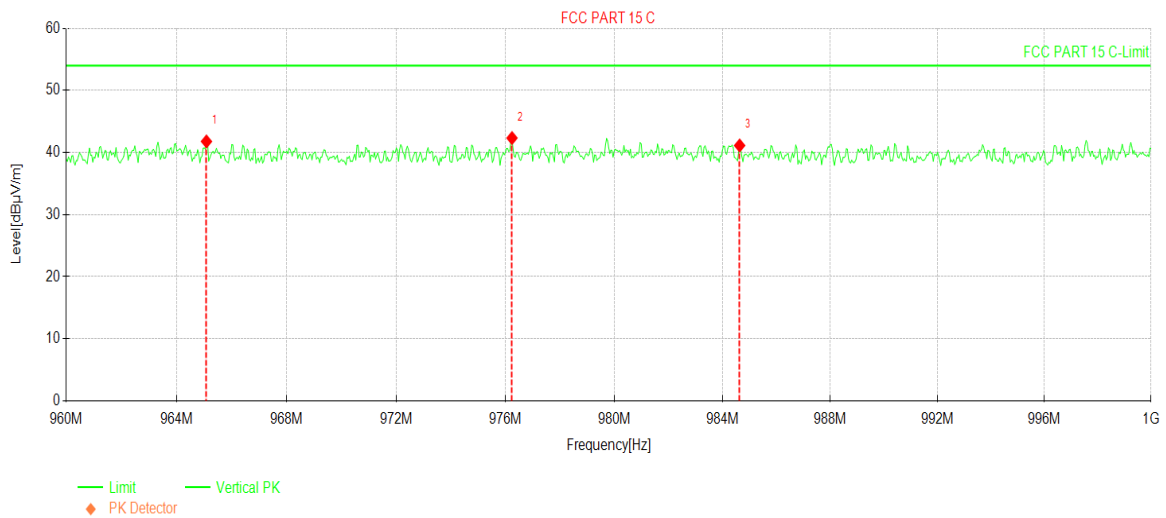


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	965.520	15.02	41.68	26.66	54.00	12.32	PK	Horizontal
2	979.800	15.98	42.75	26.77	54.00	11.25	PK	Horizontal
3	987.520	14.46	41.28	26.82	54.00	12.72	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

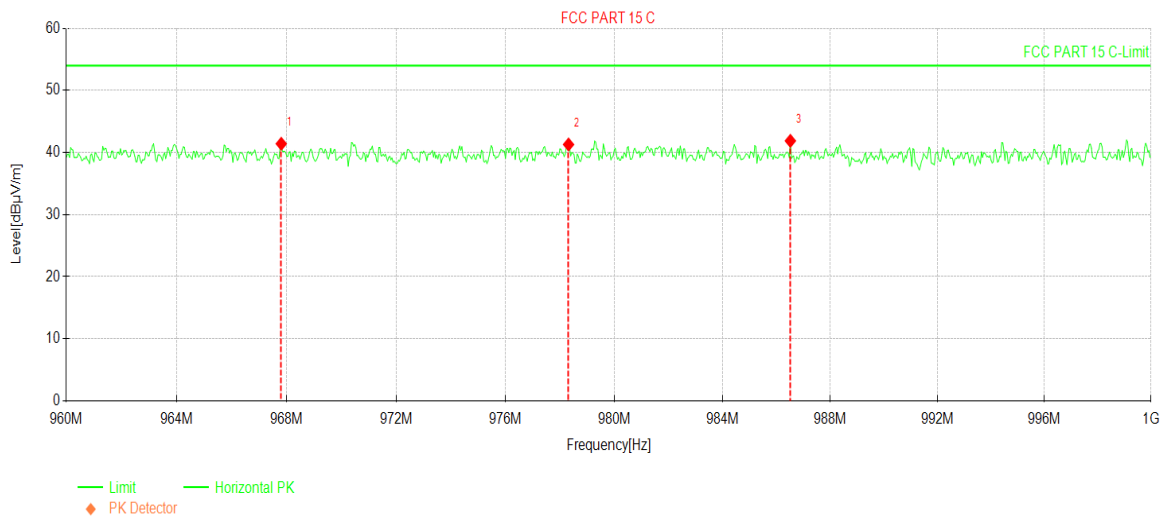


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	965.080	15.11	41.77	26.66	54.00	12.23	PK	Vertical
2	976.240	15.57	42.32	26.75	54.00	11.68	PK	Vertical
3	984.640	14.31	41.12	26.81	54.00	12.88	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



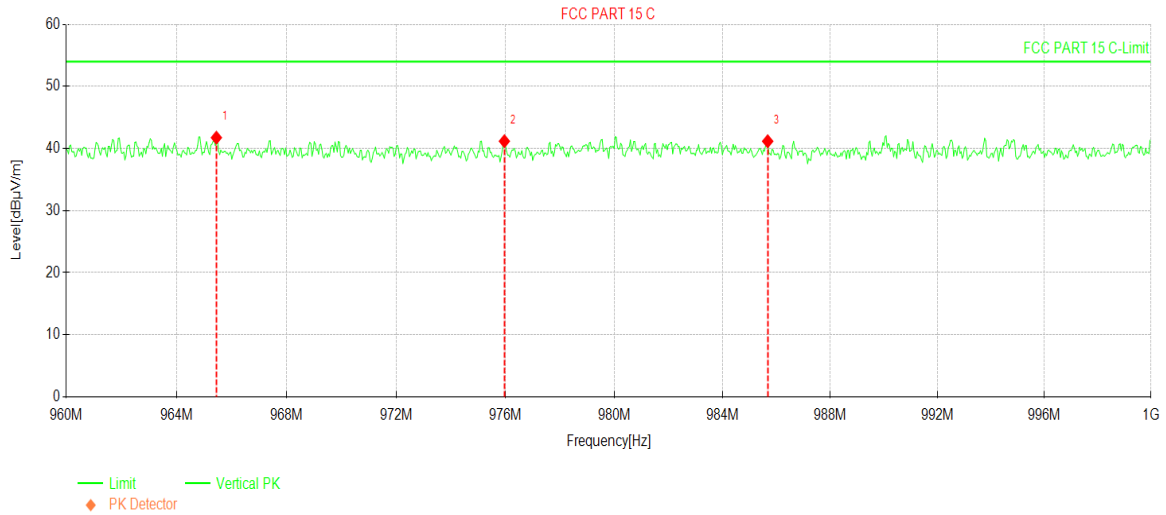
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	967.800	14.71	41.40	26.69	54.00	12.60	PK	Horizontal
2	978.320	14.52	41.28	26.76	54.00	12.72	PK	Horizontal
3	986.520	15.05	41.87	26.82	54.00	12.13	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

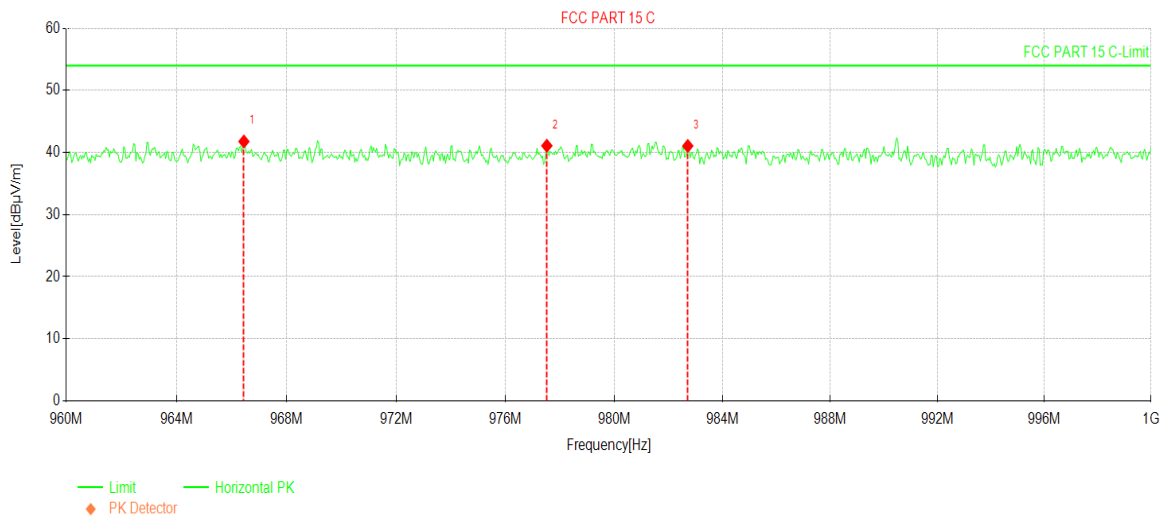


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	965.440	15.08	41.74	26.66	54.00	12.26	PK	Vertical
2	975.960	14.42	41.17	26.75	54.00	12.83	PK	Vertical
3	985.680	14.35	41.16	26.81	54.00	12.84	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

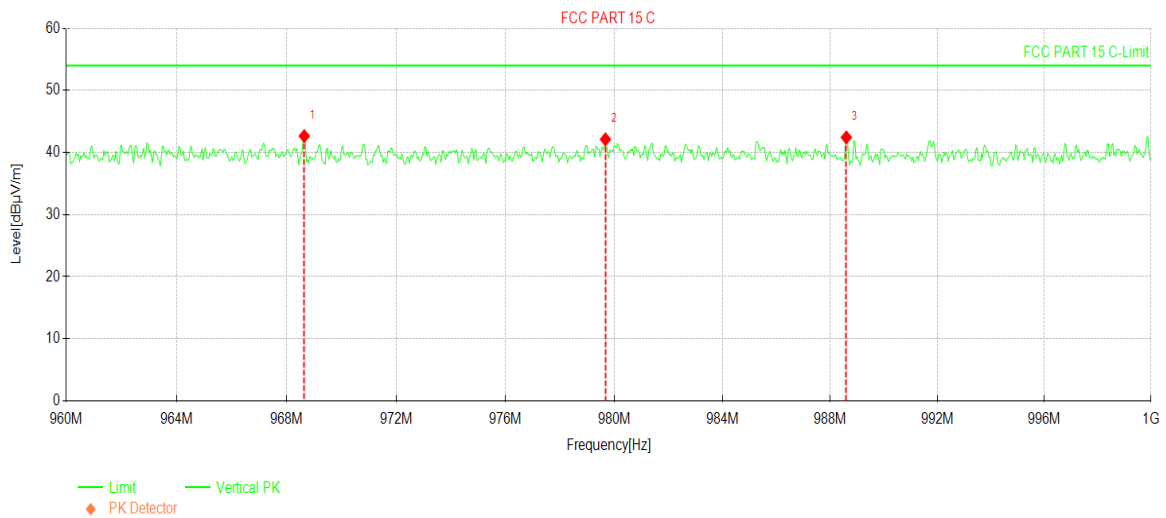


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	966.440	15.10	41.77	26.67	54.00	12.23	PK	Horizontal
2	977.520	14.32	41.08	26.76	54.00	12.92	PK	Horizontal
3	982.720	14.26	41.05	26.79	54.00	12.95	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

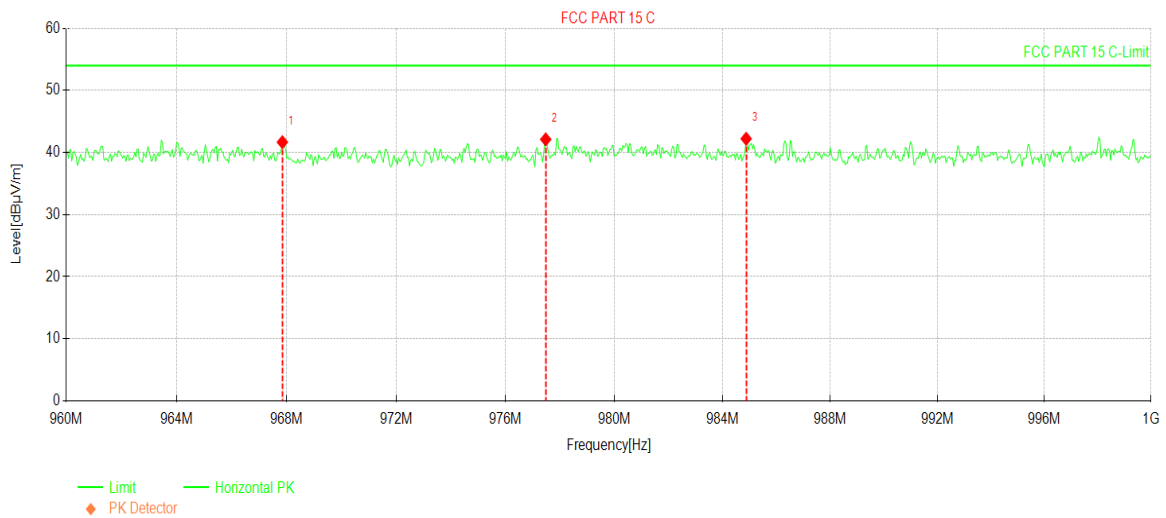


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	968.640	15.94	42.64	26.70	54.00	11.36	PK	Vertical
2	979.680	15.35	42.12	26.77	54.00	11.88	PK	Vertical
3	988.600	15.59	42.42	26.83	54.00	11.58	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

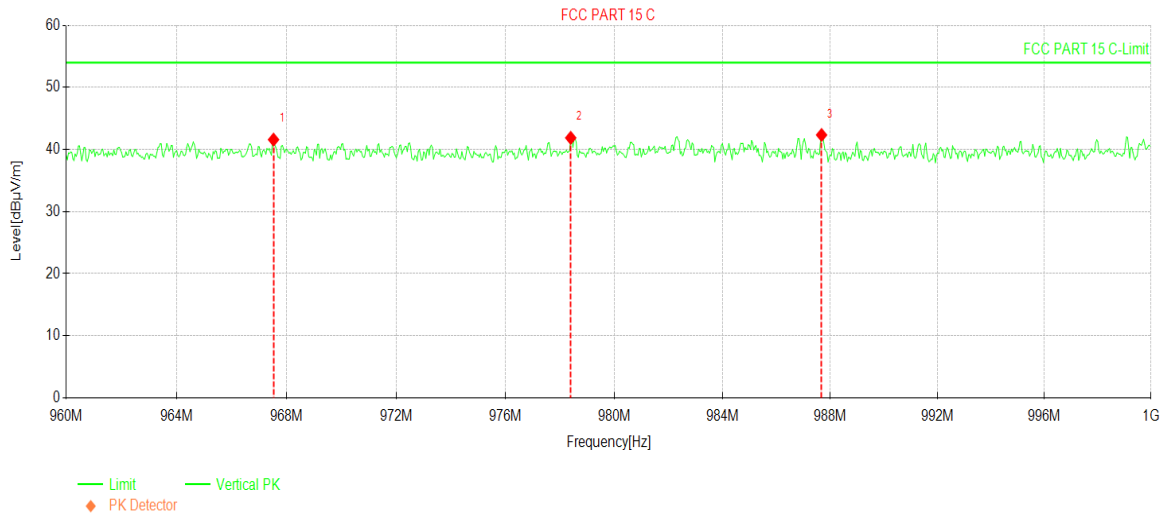


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	967.840	14.97	41.66	26.69	54.00	12.34	PK	Horizontal
2	977.480	15.35	42.11	26.76	54.00	11.89	PK	Horizontal
3	984.880	15.40	42.21	26.81	54.00	11.79	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

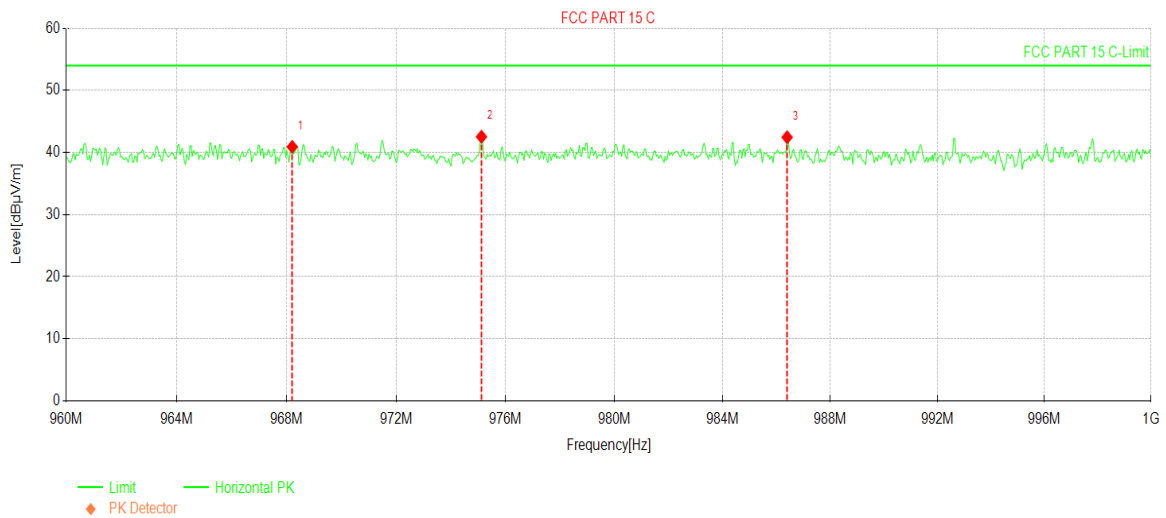


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	967.520	14.90	41.58	26.68	54.00	12.42	PK	Vertical
2	978.400	15.11	41.87	26.76	54.00	12.13	PK	Vertical
3	987.680	15.51	42.33	26.82	54.00	11.67	PK	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

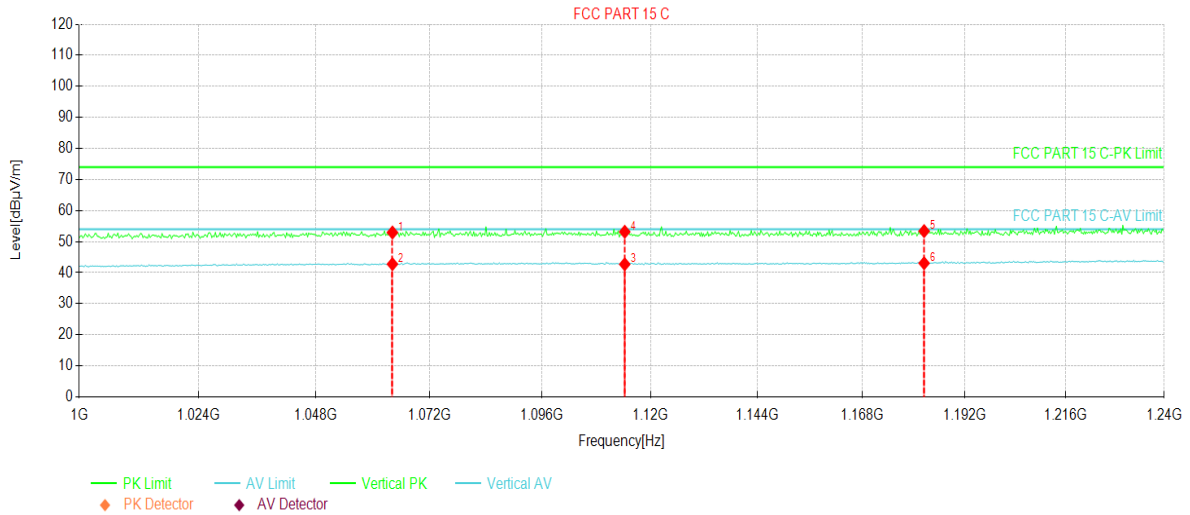


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	968.200	14.21	40.90	26.69	54.00	13.10	PK	Horizontal
2	975.120	15.79	42.53	26.74	54.00	11.47	PK	Horizontal
3	986.400	15.62	42.44	26.82	54.00	11.56	PK	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

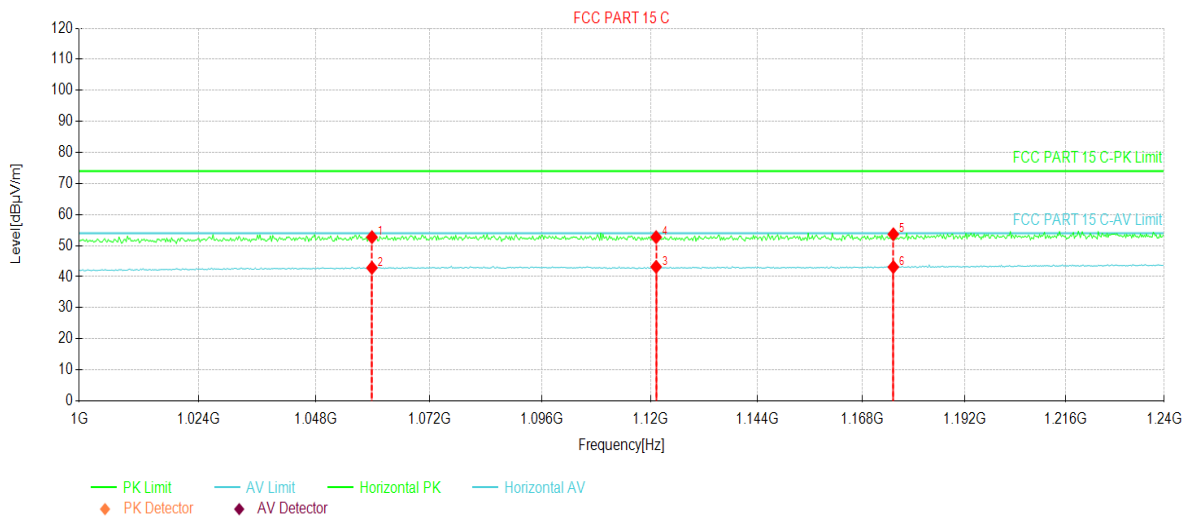


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1064.08	22.66	52.94	30.28	74.00	21.06	PK	Vertical
2	1064.08	12.47	42.75	30.28	54.00	11.25	AV	Vertical
3	1114.24	12.15	42.71	30.56	54.00	11.29	AV	Vertical
4	1114.24	22.61	53.17	30.56	74.00	20.83	PK	Vertical
5	1182.40	22.66	53.39	30.73	74.00	20.61	PK	Vertical
6	1182.40	12.33	43.06	30.73	54.00	10.94	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



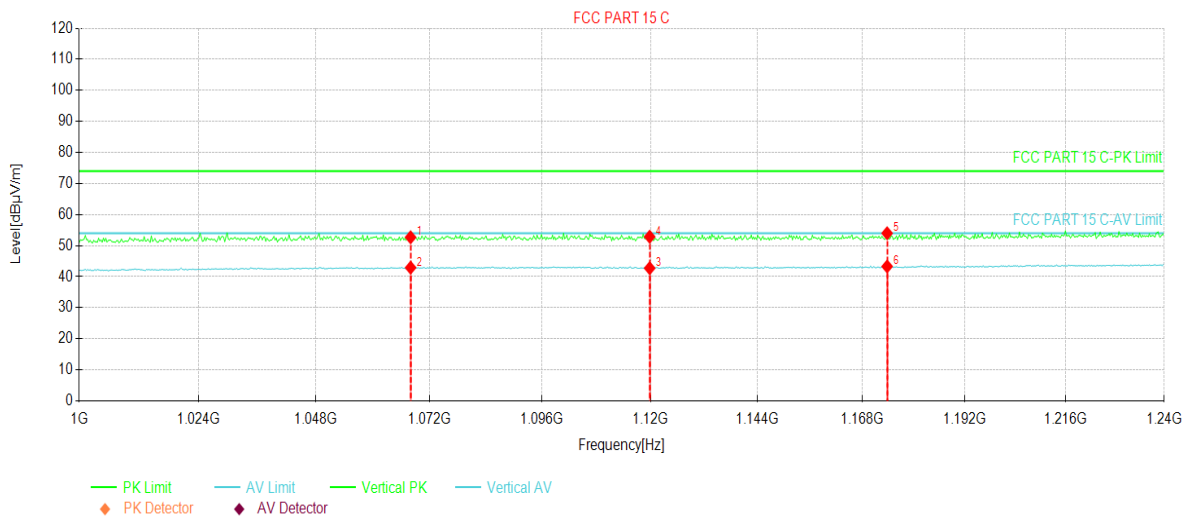
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1059.76	22.47	52.72	30.25	74.00	21.28	PK	Horizontal
2	1059.76	12.59	42.84	30.25	54.00	11.16	AV	Horizontal
3	1121.20	12.58	43.16	30.58	54.00	10.84	AV	Horizontal
4	1121.20	22.14	52.72	30.58	74.00	21.28	PK	Horizontal
5	1175.20	22.93	53.65	30.72	74.00	20.35	PK	Horizontal
6	1175.20	12.38	43.10	30.72	54.00	10.90	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

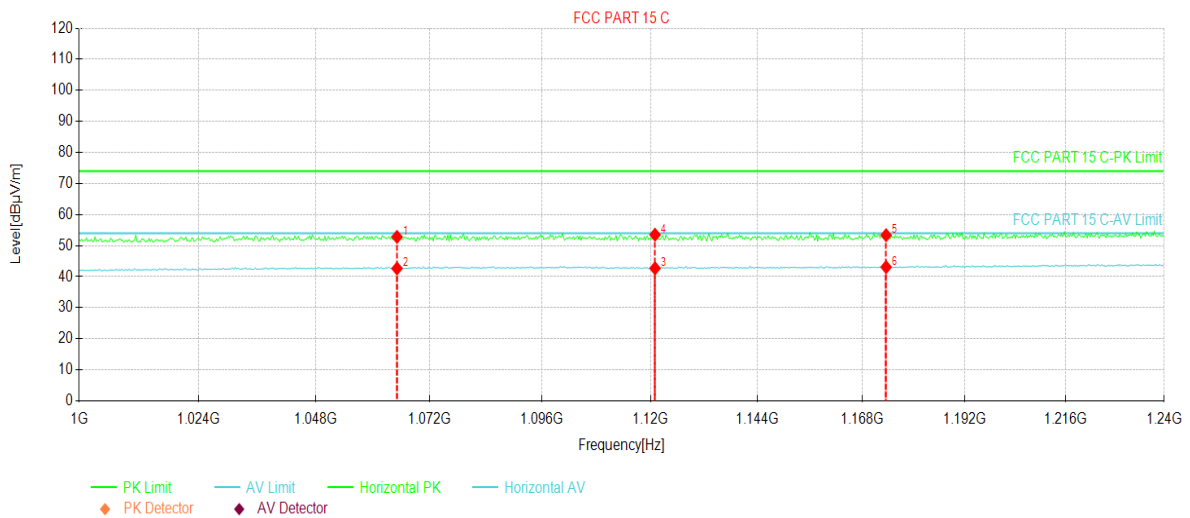


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1067.92	22.38	52.68	30.30	74.00	21.32	PK	Vertical
2	1067.92	12.60	42.90	30.30	54.00	11.10	AV	Vertical
3	1119.76	12.17	42.74	30.57	54.00	11.26	AV	Vertical
4	1119.76	22.29	52.86	30.57	74.00	21.14	PK	Vertical
5	1173.76	23.27	53.98	30.71	74.00	20.02	PK	Vertical
6	1173.76	12.59	43.30	30.71	54.00	10.70	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	1.4M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

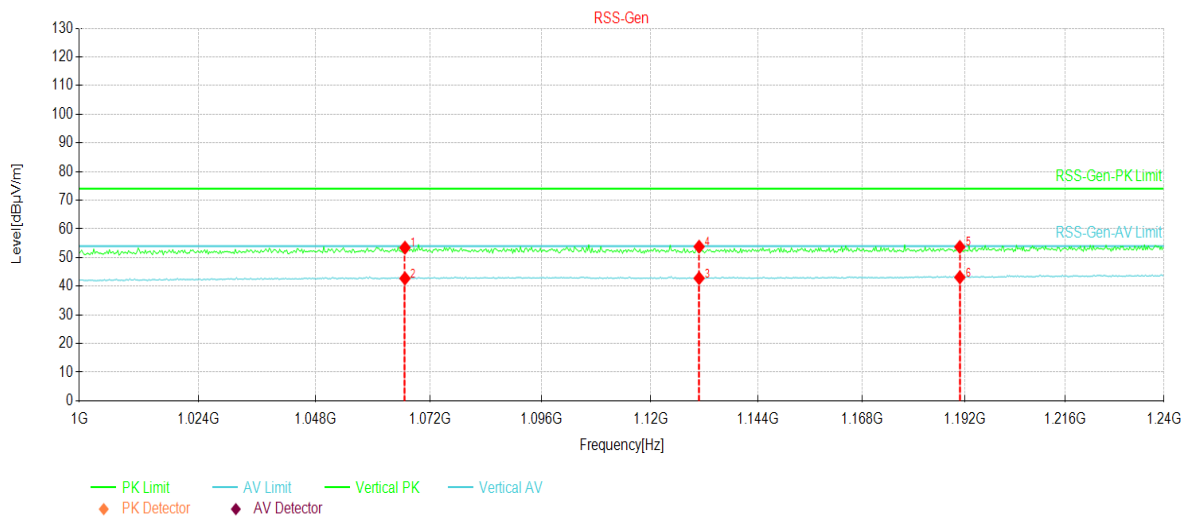


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1065.04	22.53	52.81	30.28	74.00	21.19	PK	Horizontal
2	1065.04	12.35	42.63	30.28	54.00	11.37	AV	Horizontal
3	1120.96	12.12	42.69	30.57	54.00	11.31	AV	Horizontal
4	1120.96	22.94	53.51	30.57	74.00	20.49	PK	Horizontal
5	1173.52	22.65	53.36	30.71	74.00	20.64	PK	Horizontal
6	1173.52	12.37	43.08	30.71	54.00	10.92	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

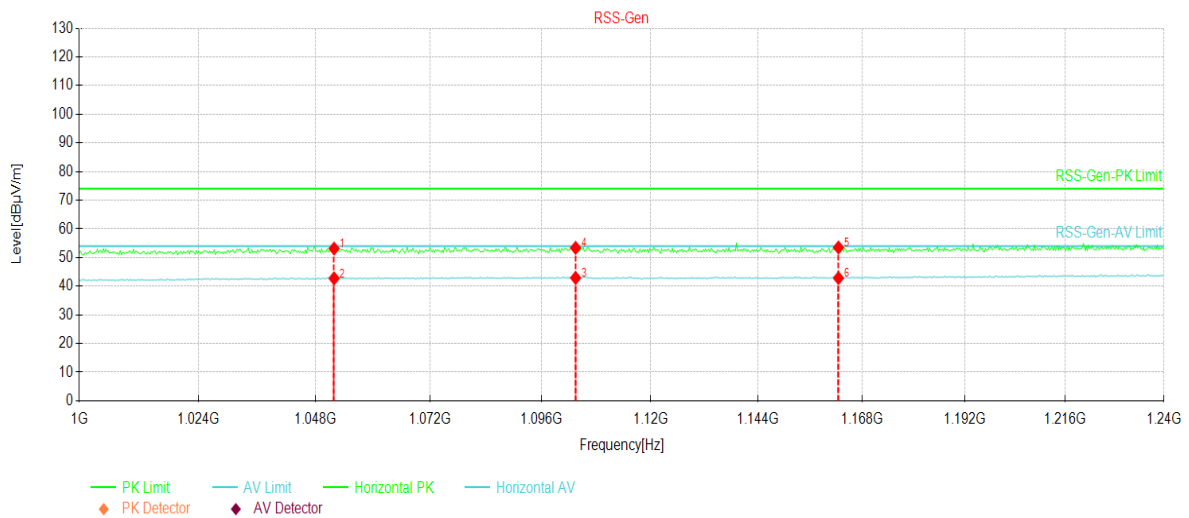


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1066.72	23.15	53.44	30.29	74.00	20.56	PK	Vertical
2	1066.72	12.44	42.73	30.29	54.00	11.27	AV	Vertical
3	1130.80	12.20	42.80	30.60	54.00	11.20	AV	Vertical
4	1130.80	23.20	53.80	30.60	74.00	20.20	PK	Vertical
5	1190.80	22.95	53.71	30.76	74.00	20.29	PK	Vertical
6	1190.80	12.35	43.11	30.76	54.00	10.89	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



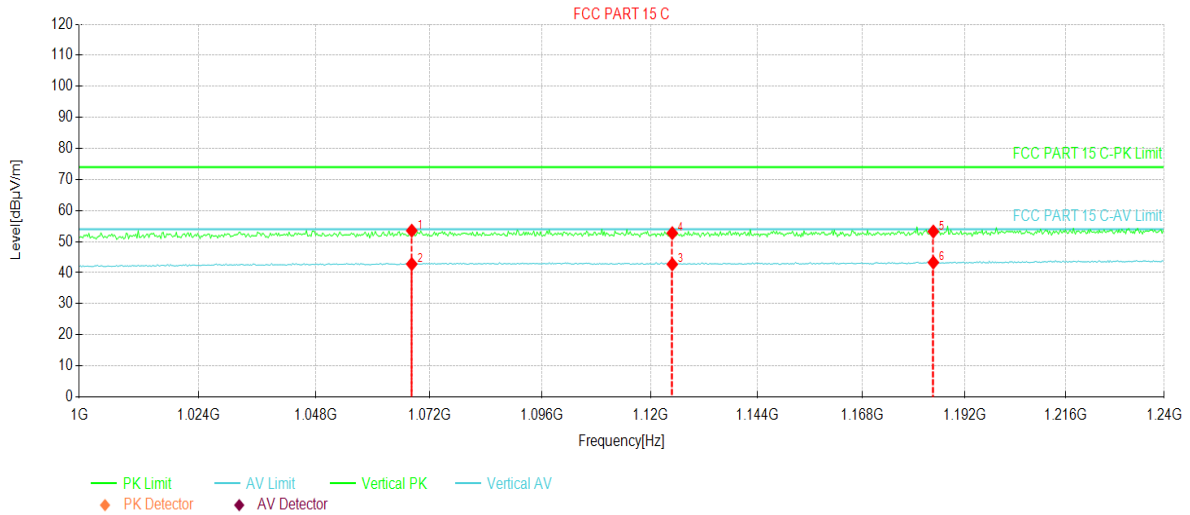
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1051.84	22.96	53.15	30.19	74.00	20.85	PK	Horizontal
2	1051.84	12.57	42.76	30.19	54.00	11.24	AV	Horizontal
3	1103.44	12.38	42.91	30.53	54.00	11.09	AV	Horizontal
4	1103.44	22.86	53.39	30.53	74.00	20.61	PK	Horizontal
5	1162.48	22.84	53.52	30.68	74.00	20.48	PK	Horizontal
6	1162.48	12.16	42.84	30.68	54.00	11.16	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

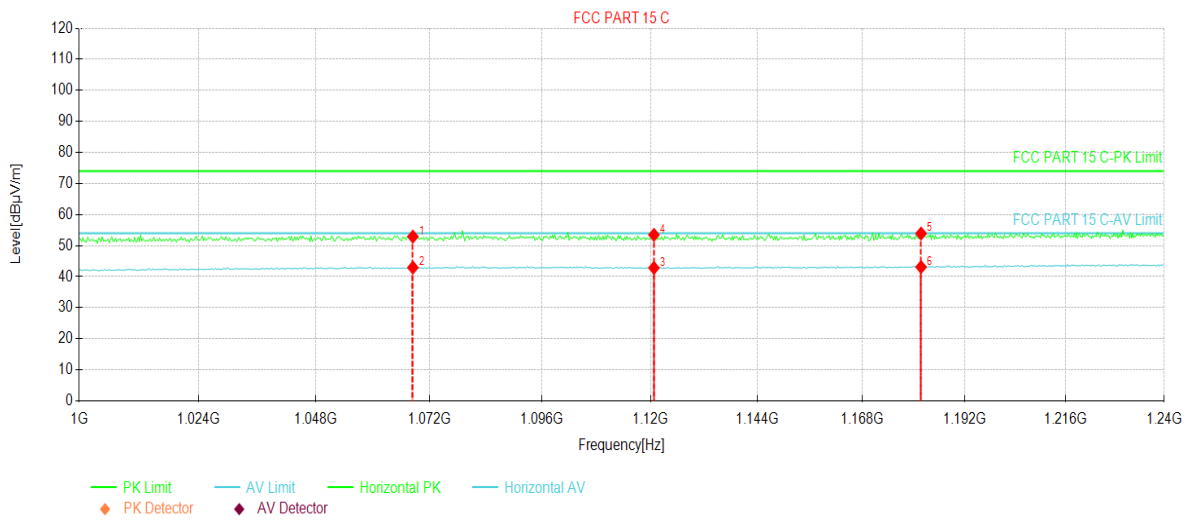


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1068.16	23.22	53.52	30.30	74.00	20.48	PK	Vertical
2	1068.16	12.48	42.78	30.30	54.00	11.22	AV	Vertical
3	1124.80	12.11	42.69	30.58	54.00	11.31	AV	Vertical
4	1124.80	22.17	52.75	30.58	74.00	21.25	PK	Vertical
5	1184.56	22.51	53.25	30.74	74.00	20.75	PK	Vertical
6	1184.56	12.53	43.27	30.74	54.00	10.73	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	10M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		

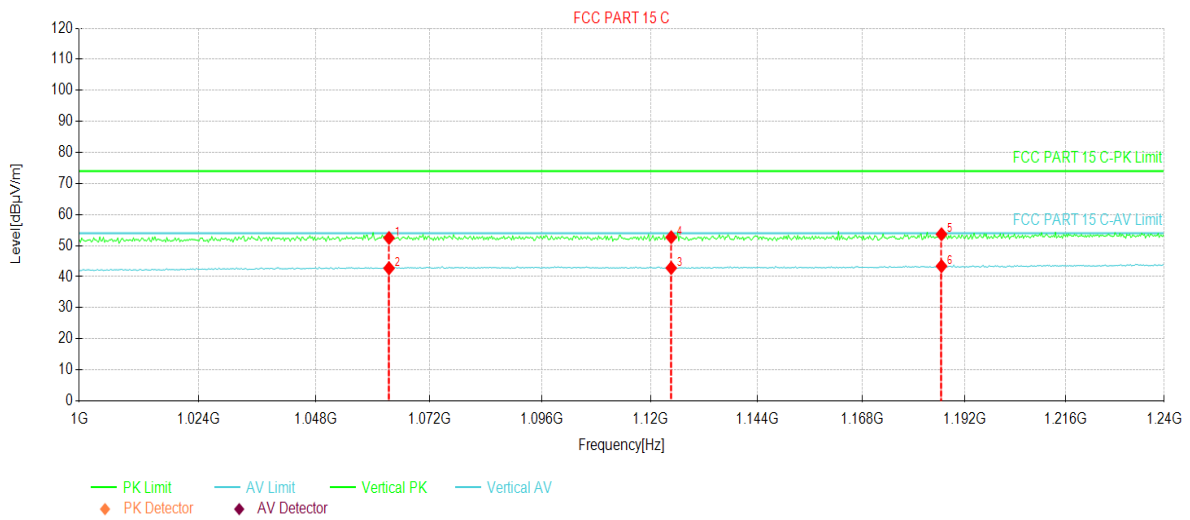


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1068.40	22.59	52.90	30.31	74.00	21.10	PK	Horizontal
2	1068.40	12.63	42.94	30.31	54.00	11.06	AV	Horizontal
3	1120.72	12.26	42.83	30.57	54.00	11.17	AV	Horizontal
4	1120.72	22.91	53.48	30.57	74.00	20.52	PK	Horizontal
5	1181.68	23.17	53.90	30.73	74.00	20.10	PK	Horizontal
6	1181.68	12.39	43.12	30.73	54.00	10.88	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

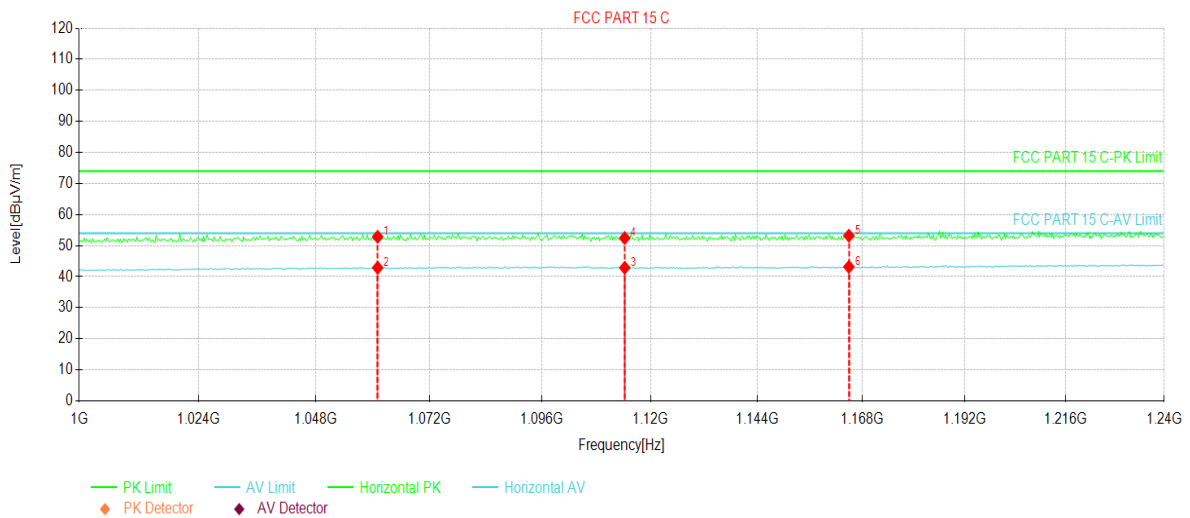


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1063.36	22.20	52.47	30.27	74.00	21.53	PK	Vertical
2	1063.36	12.44	42.71	30.27	54.00	11.29	AV	Vertical
3	1124.56	12.22	42.80	30.58	54.00	11.20	AV	Vertical
4	1124.56	22.12	52.70	30.58	74.00	21.30	PK	Vertical
5	1186.48	22.93	53.67	30.74	74.00	20.33	PK	Vertical
6	1186.48	12.65	43.39	30.74	54.00	10.61	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M QPSK Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



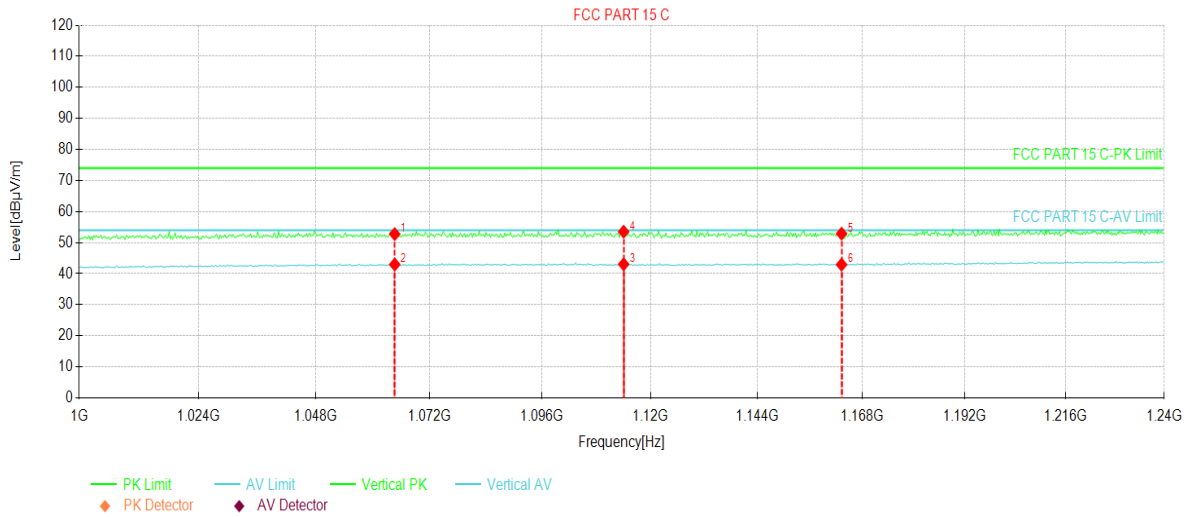
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1060.96	22.59	52.84	30.25	74.00	21.16	PK	Horizontal
2	1060.96	12.62	42.87	30.25	54.00	11.13	AV	Horizontal
3	1114.24	12.30	42.86	30.56	54.00	11.14	AV	Horizontal
4	1114.24	21.88	52.44	30.56	74.00	21.56	PK	Horizontal
5	1164.88	22.50	53.19	30.69	74.00	20.81	PK	Horizontal
6	1164.88	12.47	43.16	30.69	54.00	10.84	AV	Horizontal

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.



<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

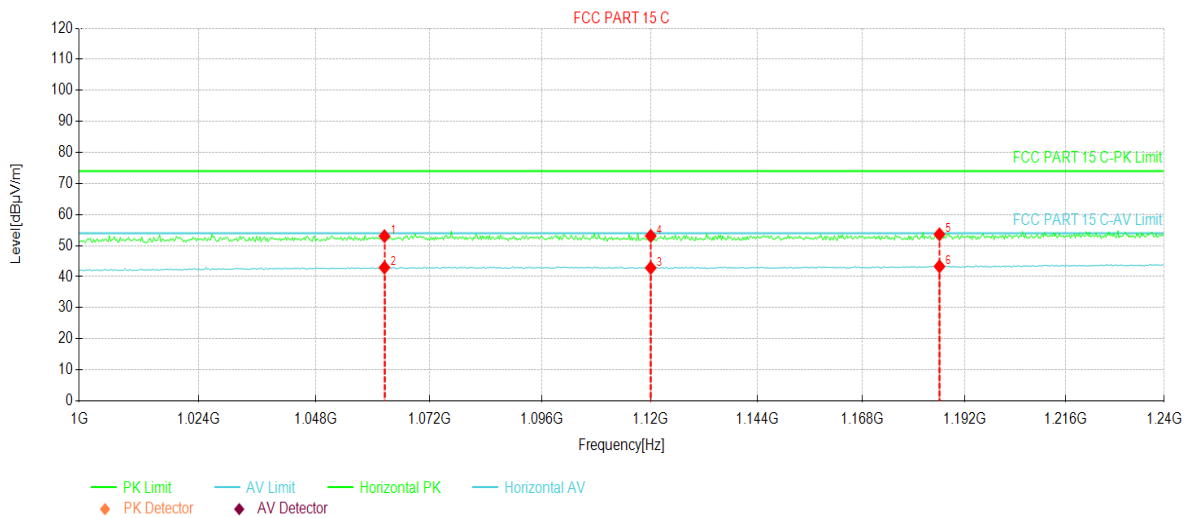


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1064.56	22.47	52.75	30.28	74.00	21.25	PK	Vertical
2	1064.56	12.67	42.95	30.28	54.00	11.05	AV	Vertical
3	1114.00	12.47	43.03	30.56	54.00	10.97	AV	Vertical
4	1114.00	22.95	53.51	30.56	74.00	20.49	PK	Vertical
5	1163.20	22.22	52.90	30.68	74.00	21.10	PK	Vertical
6	1163.20	12.24	42.92	30.68	54.00	11.08	AV	Vertical

**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	20M 16QAM Tx mode
<b>Test Channel:</b>	Highest channel	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	1062.40	22.78	53.04	30.26	74.00	20.96	PK	Horizontal
2	1062.40	12.68	42.94	30.26	54.00	11.06	AV	Horizontal
3	1120.00	12.26	42.83	30.57	54.00	11.17	AV	Horizontal
4	1120.00	22.55	53.12	30.57	74.00	20.88	PK	Horizontal
5	1186.00	22.88	53.62	30.74	74.00	20.38	PK	Horizontal
6	1186.00	12.56	43.30	30.74	54.00	10.70	AV	Horizontal

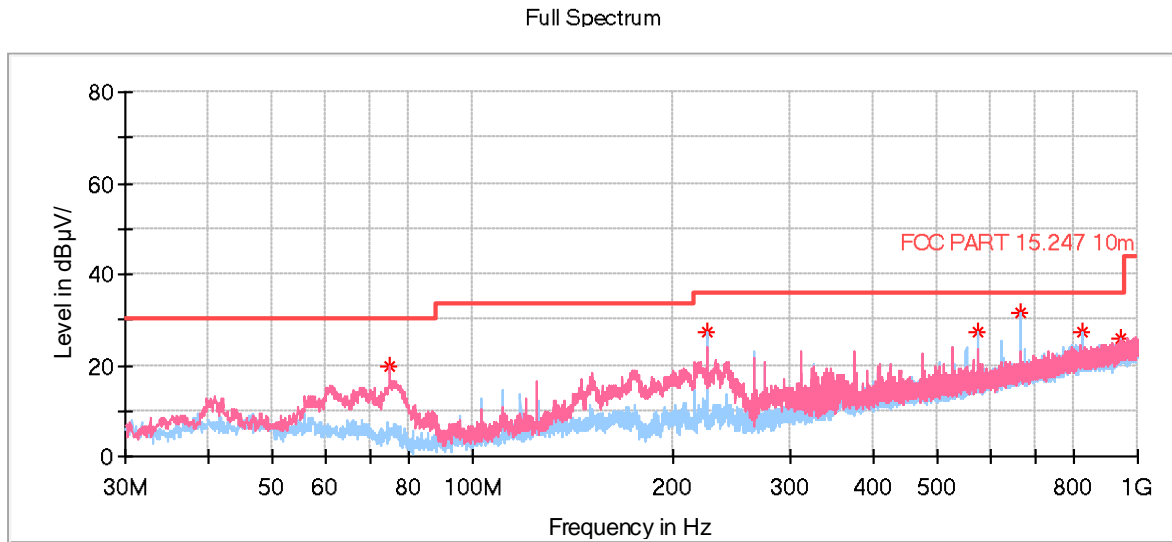
**Remark:**

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

## 6.5 Emissions in Non-restricted Frequency Bands

Below 1GHz:

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	2.4GHz mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Vertical & Horizontal
<b>Test Voltage:</b>	DC 7.7V		



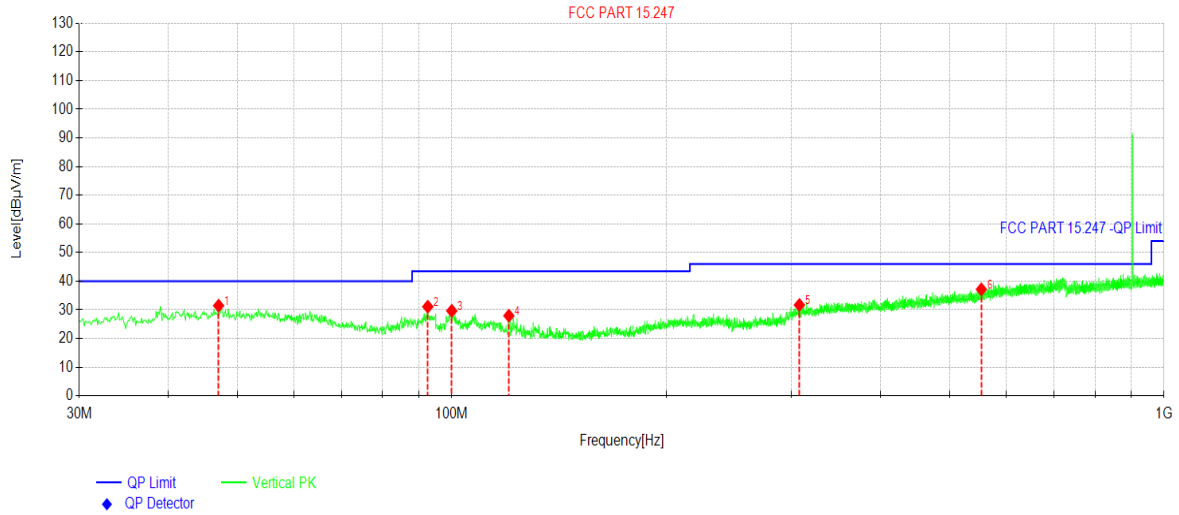
\* Critical\_Freqs PK+      — FCC PART 15.247 10m      ◆ Final\_Result QPK  
— Preview Result 1H-PK+      — Preview Result 1V-PK+

Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
664.622500	31.54	36.00	4.46	100.0	H	236.0	-6.1
825.012000	27.52	36.00	8.48	100.0	H	243.0	-2.7
574.994500	27.14	36.00	8.86	100.0	H	245.0	-8.1
224.970000	27.0	36.00	8.93	100.0	H	250.0	-17.6
945.001000	25.93	36.00	10.07	100.0	H	300.0	-1.0
74.959500	19.69	30.00	10.31	100.0	V	218.0	-19.0

**Remark:**

- Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- Tested at 10m SAC

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	900MHz mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 7.7V		

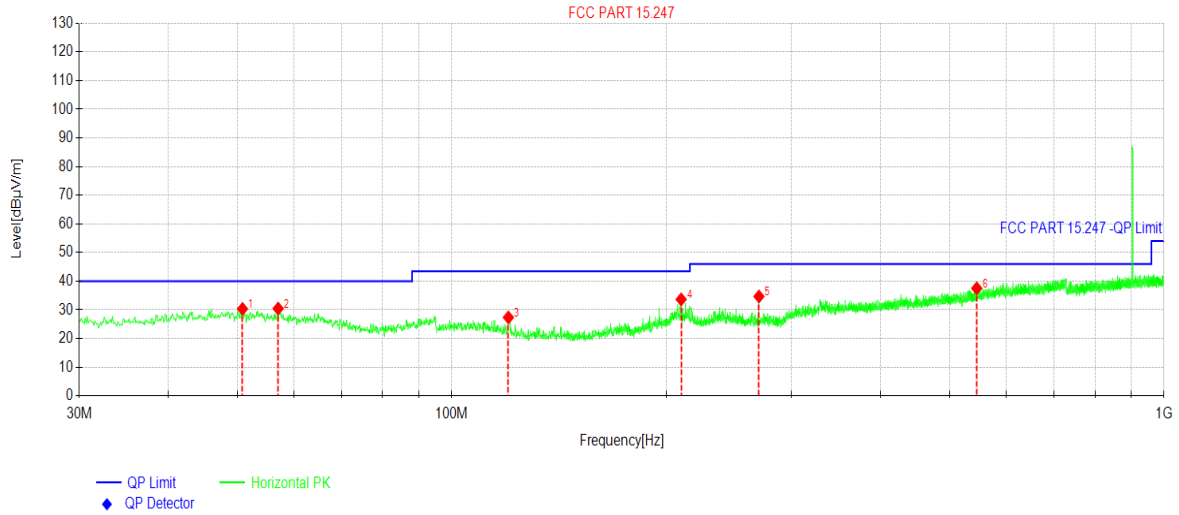


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	47.0737	16.32	31.47	15.15	40.00	8.53	PK	Vertical
2	92.5713	18.91	31.11	12.20	43.50	12.39	PK	Vertical
3	100.041	16.32	29.68	13.36	43.50	13.82	PK	Vertical
4	120.316	16.36	27.95	11.59	43.50	15.55	PK	Vertical
5	307.738	16.32	31.72	15.40	46.00	14.28	PK	Vertical
6	554.143	17.00	37.17	20.17	46.00	8.83	PK	Vertical

**Remark:**

1.  $Level = Read\ level + Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor.$
2. Tested at 3m SAC

<b>Product Name:</b>	Autel Smart Controller SE	<b>Product Model:</b>	EF6
<b>Test By:</b>	Mike	<b>Test mode:</b>	900MHz mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 7.7V		



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity
1	50.8571	15.25	30.35	15.10	40.00	9.65	PK	Horizontal
2	57.0657	16.12	30.46	14.34	40.00	9.54	PK	Horizontal
3	120.122	15.74	27.37	11.63	43.50	16.13	PK	Horizontal
4	209.953	20.38	33.67	13.29	43.50	9.83	PK	Horizontal
5	270.002	20.31	34.69	14.38	46.00	11.31	PK	Horizontal
6	545.994	17.53	37.52	19.99	46.00	8.48	PK	Horizontal

**Remark:**

1.  $Level = Read\ level + Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor.$
2. Tested at 3m SAC

**Above 1GHz**

2.4GHz-1.4M-QPSK						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4807.00	64.43	-9.58	54.85	74.00	19.15	Vertical
4807.00	67.66	-9.58	58.08	74.00	15.92	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4807.00	58.49	-9.58	48.91	54.00	5.09	Vertical
4807.00	60.54	-9.58	50.96	54.00	3.04	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4879.00	64.30	-9.08	55.22	74.00	18.78	Vertical
4879.00	67.46	-9.08	58.38	74.00	15.62	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4879.00	58.07	-9.08	48.99	54.00	5.01	Vertical
4879.00	60.53	-9.08	51.45	54.00	2.55	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4951.00	64.74	-8.53	56.21	74.00	17.79	Vertical
4951.00	67.71	-8.53	59.18	74.00	14.82	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
4951.00	58.40	-8.53	49.87	54.00	4.13	Vertical
4951.00	60.05	-8.53	51.52	54.00	2.48	Horizontal
<b>Remark:</b>						
1. Level = Read level + Factor.						
2. Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

<b>900MHz-10M-QPSK</b>						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
3636.00	68.85	-14.59	54.26	74.00	19.74	Vertical
3636.00	69.93	-14.59	55.34	74.00	18.66	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
3636.00	64.83	-14.59	50.24	54.00	3.76	Vertical
3636.00	66.90	-14.59	52.31	54.00	1.69	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
3660.00	68.92	-14.59	54.33	74.00	19.67	Vertical
3660.00	69.23	-14.59	54.64	74.00	19.36	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
3660.00	64.94	-14.59	50.35	54.00	3.65	Vertical
3660.00	66.87	-14.59	52.28	54.00	1.72	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
3684.00	68.76	-14.59	54.17	74.00	19.83	Vertical
3684.00	69.64	-14.59	55.05	74.00	18.95	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
3684.00	64.36	-14.59	49.77	54.00	4.23	Vertical
3684.00	66.67	-14.59	52.08	54.00	1.92	Horizontal
<b>Remark:</b>						
1. Level = Read level + Factor.						
2. Test Frequency up to 10GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.						

-----End of report-----