



Global Product Certification
EMC-EMF Safety Approvals

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**RADIO REPORT FOR CERTIFICATION
FCC PART 15 Subpart C (Section 15.225)**

Client: FE Technologies
Test Sample: D1 Desktop Loan Station

FCC ID: 2AM6N-FE-D1LOAN

Report Number: M170210-3
Issue Date: 25 June 2018

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Accreditation No.5292



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RADIO REPORT FOR CERTIFICATION FCC Part 15 Subpart C (Section 15.225)

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RADIO REPORT FOR CERTIFICATION

Issued by: EMC Technologies Pty. Ltd.,

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Phone: +61 3 9365 1000, **E-mail:** emc-general@emctech.com.au, **Web:** www.emctech.com.au

FCC registration number: 90560 and ISED Canada iOATS number: IC 3569B

Sample: D1 Desktop Loan Station
Manufacturer: FE Technologies

FCC ID: 2AM6N-FE-D1LOAN
Equipment Type: Intentional Radiator (13.56 MHz Transceiver)

Tested for: FE Technologies
Address: 129 Fyans Street, Geelong
VIC 3220, Australia
Phone: +61 1300 731 991
Contact: Clint Agustsson
Email: clint@fetechnology.com

Standard: **CFR FCC Part 15 – Radio Frequency Devices**
Subpart C – Intentional Radiators
Section 15.225 – Operation within the band 13.110-14.010 MHz

Result: The D1 Desktop Loan Station complied with the applicable FCC Part 15C.
Refer to Report M170210-3 for full details.

Test Dates: 23rd January to 16th February 2016
19th March 2018 (frequency stability test)
Issue Date: 25 June 2018

Test Engineer:



Larry Phuah

Authorised Signatory:



Chris Zombolas
Technical Director
EMC TECHNOLOGIES PTY LTD

Attestation: *I hereby certify that the device(s) described herein were tested as described in this report and that the data included is that which was obtained during such testing.*

RADIO REPORT FOR CERTIFICATION FCC PART 15 SUBPART C (SECTION 15.225)

1.0 INTRODUCTION

Test results and procedures were performed in accordance with applicable Federal Communications Commission (FCC) standards/regulations for a transmitter operating in the 13.56 MHz band.

1.1 Test Procedure

The measurement procedure used was in accordance with ANSI C63.10: 2013. The instrumentation conformed to the requirements of ANSI C63.2: 2009.

1.2 Summary of Results

FCC Part 15C	Test Performed	Results
15.203	Antenna Requirement	Complied
15.207	Conducted Limits	Complied
15.209	Radiated Emissions Limits; General Requirements	Complied
15.225(a)	Fundamental Field Strength	Complied
15.225(b and c)	Transmission Mask 13.110-14.010 MHz	Complied
15.225(d)	Spurious Emissions	Complied
15.225(e)	Frequency Tolerance	Complied
2.1049	Occupied Bandwidth	4520 Hz

The sample **complied** with the requirements of 47 CFR, Part 15 Subpart C - Section 15.225.

1.3 Modifications by EMC Technologies

No modifications were performed.

2.0 GENERAL INFORMATION

2.1 EUT (Transmitter) Details

Wireless Radio:	13.56 MHz RFID
Operating band:	13.110 MHz to 14.010 MHz
Modulation type:	ASK
Antenna type:	Loop Antenna

2.2 EUT (Host) Details

Test Sample:	D1 Desktop Loan Station
Manufacturer:	FE Technologies
Supply Rating:	100-240 VAC, 1.2 A, 50/60 Hz

2.3 Test Configuration

The sample was programmed to transmit a modulated RFID signal continuously.

The sample was a desktop loan station that could be setup on any bench or desk area in the library. It featured a computer with an integrated touch screen, omni-directional barcode scanner (or optional RFID card reader), receipt printer and an RFID reading pad and instruction insert.

2.4 Test Facility

2.4.1 General

EMC Technologies Pty Ltd is listed by the FCC as a test laboratory able to perform compliance testing for the public. EMC Technologies is listed as an FCC part 47CFR2.948 test lab and may perform the testing required under Parts 15 and 18 – **FCC Registration Number 90560**

EMC Technologies Pty Ltd has also been accredited as a Conformity Assessment Body (CAB) by Australian Communications and Media Authority (ACMA) under the APECTEL MRA and is designated to perform compliance testing on equipment subject to Declaration of Conformity (DoC) and C7ertification under Parts 15 and 18 of the FCC Commission's rules – **Registration Number 494713 & Designation number AU0001.**

EMC Technologies indoor open are test site (iOATS) have been accepted by Industry Canada for the performance of radiated measurements in accordance with RSS-Gen, Issue 8 - **Industry Canada iOATS number - IC 3569B**

Measurements in this report were performed at EMC Technologies' laboratory in Keilor Park, Victoria Australia.

2.4.2 NATA Accreditation

NATA is the Australian National laboratory accreditation body and has accredited EMC Technologies to operate to the IEC/ISO 17025 requirements. A major requirement for accreditation is the assessment of the company and its personnel as being technically competent in testing to the standards. This requires fully documented test procedures, continued calibration of all equipment to the National Standard at the National Measurements Institute (NMI) and an internal quality system to ISO 9002. NATA has mutual recognition agreements with the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Association for Laboratory Accreditation (A²LA).

EMC Technologies is accredited in Australia by the National Association of Testing Authorities (NATA). All testing in this report has been conducted in accordance with EMC Technologies' scope of NATA accreditation. The current full scope of accreditation can be found on the NATA website: www.nata.asn.au

 Accreditation No. 5292	Accredited for compliance with ISO/IEC 17025 - Testing. The results of tests, calibration and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports. Except for the Certificate of Compliance on Page 3 this document must only be reproduced in full.
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2.5 Test Equipment Calibration

Measurement instrumentation and transducers were calibrated in accordance with the applicable standards by an independent NATA registered laboratory such as Agilent Technologies (Australia) Pty Ltd or the National Measurement Institute (NMI) or in-house. All equipment calibration is traceable to Australian national standards at the National Measurements Institute.

Equipment Type	Make/Model/Serial Number	Last Cal. dd/mm/yy	Due Date dd/mm/yy	Cal. Interval
Chamber	Frankonia SAC-10-2 (R-139)	8/01/2016	8/01/2017	1 Year, *1
EMI Receiver	R&S ESU40 20 Hz – 40 GHz Sn: 100392 (R-140)	19/11/2015	19/11/2016	1 Year, *2
	R&S ESCI (Frequency Stability Test) 9 kHz - 3 GHz Sn: 100011 (R-028)	13/06/2017	13/06/2018	1 Year, *2
Antennas	EMCO 6502 Active Loop 9kHz – 30MHz Sn. 9311-2801 (A-231)	20/07/2015	20/07/2018	3 Year, *2
	SUNOL JB6 BICONILOG 30 – 6000 MHz Sn. A012312 (A-363)	12/04/2014	12/04/2016	2 Year, *2
	EMCO 3115 (A-004) 1-18 GHz Sn. 8908-3282	09/05/2013	16/05/2016	3 Year, *1
Cables	Room 12 inbuilt cable Panel 1 to 10m (C-422)	09/05/2016	09/05/2017	1 Year, *1
	Room 12 Antenna cable (C-437)	09/05/2016	09/05/2017	1 Year, *1

Note *1. Internal NATA calibration.

Note *2. External NATA / A2LA calibration

3.0 TEST RESULTS

3.1 §15.203 Antenna Requirement

A permanently attached antenna was incorporated within the DI Desktop Loan Station ensuring that it could not be replaced.

3.2 §15.207 Conducted Limits

3.2.1 Test Procedure

The arrangement specified in ANSI C63.10: 2013 was adhered to for the conducted EMI measurements. The EUT was placed in the RF screened enclosure and a CISPR EMI Receiver as defined in ANSI C63.2: 2009 was used to perform the measurements.

The EMI Receiver was operated under program control, using the Max-Hold function and automatic frequency scanning, measurement and data logging techniques. The specified 0.15 MHz to 30 MHz frequency range was sub-divided into sub-ranges to ensure that all short duration peaks were captured.

3.2.2 Peak Maximising Procedure

For each of the sub-ranges, the EMI receiver was set to continuous scan with the Peak detector set to Max-Hold mode. The Quasi-Peak detector and the Average detector were then used to measure the actual Quasi-Peak and Average level of the most significant peaks detected.

3.2.3 Calculation of Voltage Levels

The voltage levels were automatically measured in software and compared to the test limit. The method of calculation was as follows:

$$V_{EMI} = V_{Rx} + L_{BPF}$$

Where:

- V_{EMI} = the Measured EMI voltage in dBμV to be compared to the limit.
- V_{Rx} = the Voltage in dBμV read directly at the EMI receiver.
- L_{BPF} = the insertion loss in dB of the LISN, cables and limiter.

3.2.4 Plotting of Conducted Emission Measurement Data

The measurement data pertaining to each frequency sub-range were concatenated to form a single graph of (peak) amplitude versus frequency. This was performed for both Active and Neutral lines and the composite graph was subsequently plotted. A list of the highest relevant peaks and the respective Quasi-Peak and Average values were also plotted on the graph.

3.2.5 Results of Conducted Emission Measurement

Shielded Room Temperature: 22°C
Relative Humidity: 73%

The host device was deemed a Class A product and therefore in accordance with §15.31(k) the appropriate limits of §15.107 were applied.

The highest conducted emission measured was more than 10 dBμV below the quasi-peak and average limits as outlined in §15.207. All other measured peaks were below this point.

3.2.5.1 Active Line

FE Technologies Pty Ltd

D1 Kiosk
Active Line (60Hz)

FCC 15.207

Conducted Emissions (dBuV)
~ = QP Value * = CISPR AvJob No: M160112
Test Date: 03/02/2016

Limit1: FCC_AQPN

Limit2: FCC_AAVN

Trace 2: Active Line

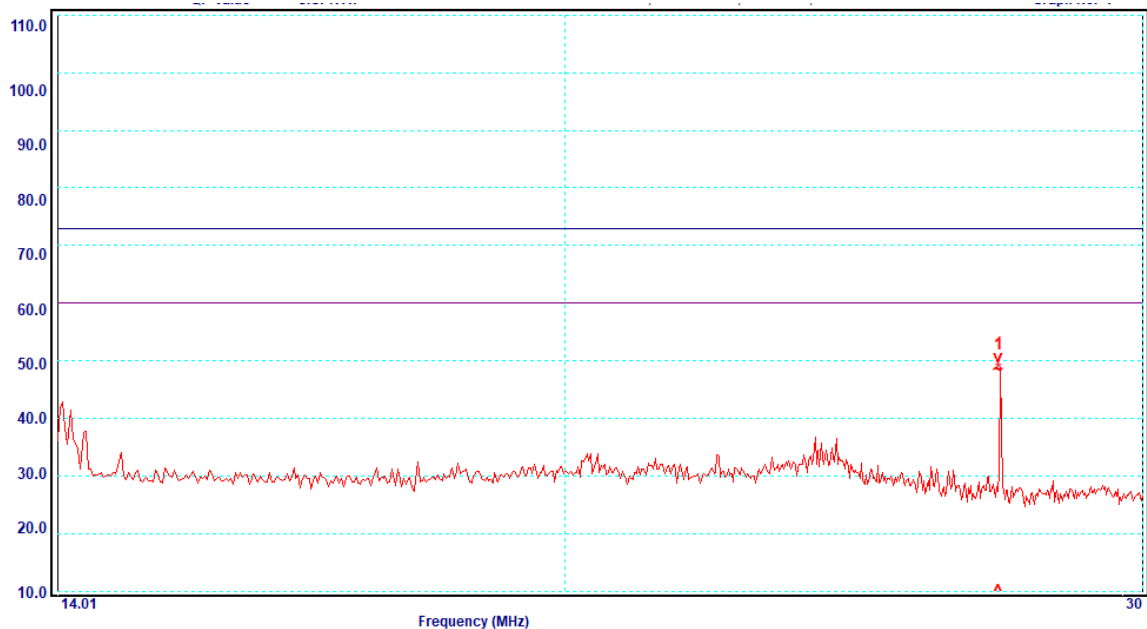
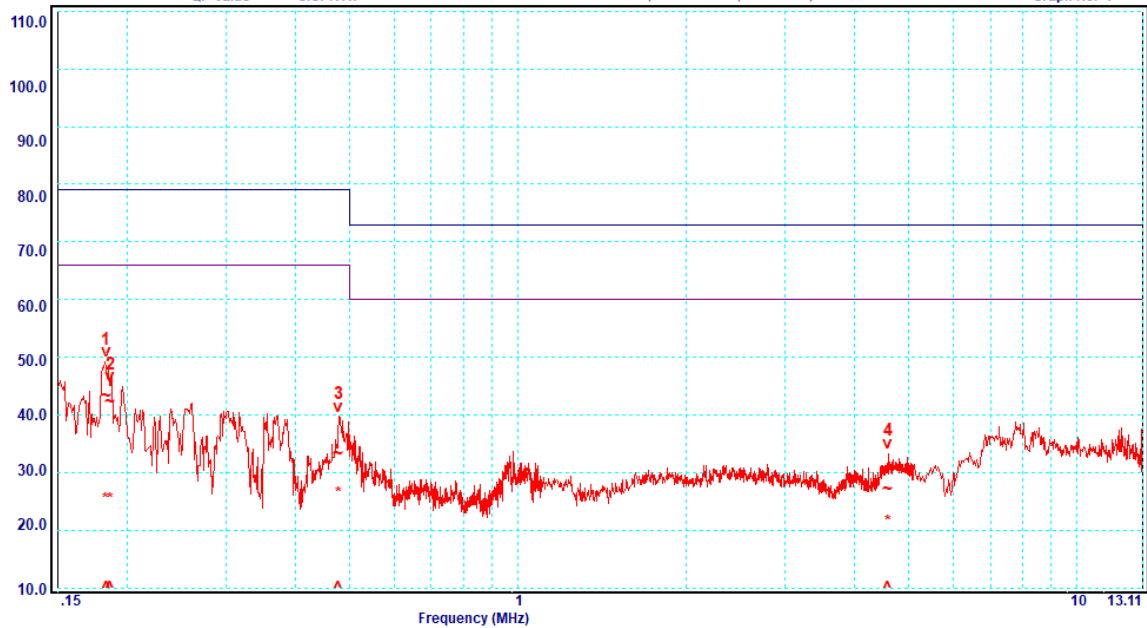
FCC Part 15.107 Class A - Quasi-Peak Limit (Conducted)

FCC Part 15.107 Class A - Average Limit (Conducted)

Test Officer: Larry Phuah-Plot date: 07-28-2017 13:45:02
t: L0221016 c1: C4070117 c2: p: NONE a:
Site ID: Room#11, 176 Harrick Rd, Keilor Park, Vic

Wst: 0-Wplt: 160 Rev: 13-Rx: R&S, ESU-40, 100182/04

Graph No. 1



Peak	Frequency [MHz]	Line	Quasi-Peak			Average		
			Level [dBμV]	Limit [dBμV]	Margin [±dB]	Level [dBμV]	Limit [dBμV]	Margin [±dB]
1	0.184	Active	43.2	79.0	-35.8	25.2	66.0	-40.8
2	0.187	Active	42.3	79.0	-36.7	25.2	66.0	-40.8
3	0.479	Active	33.2	79.0	-45.8	26.2	66.0	-39.8
4	4.593	Active	27.0	73.0	-46.0	21.4	60.0	-38.6
1	27.12	Active	48.4	73.0	-24.6	48.4	60.0	-11.6



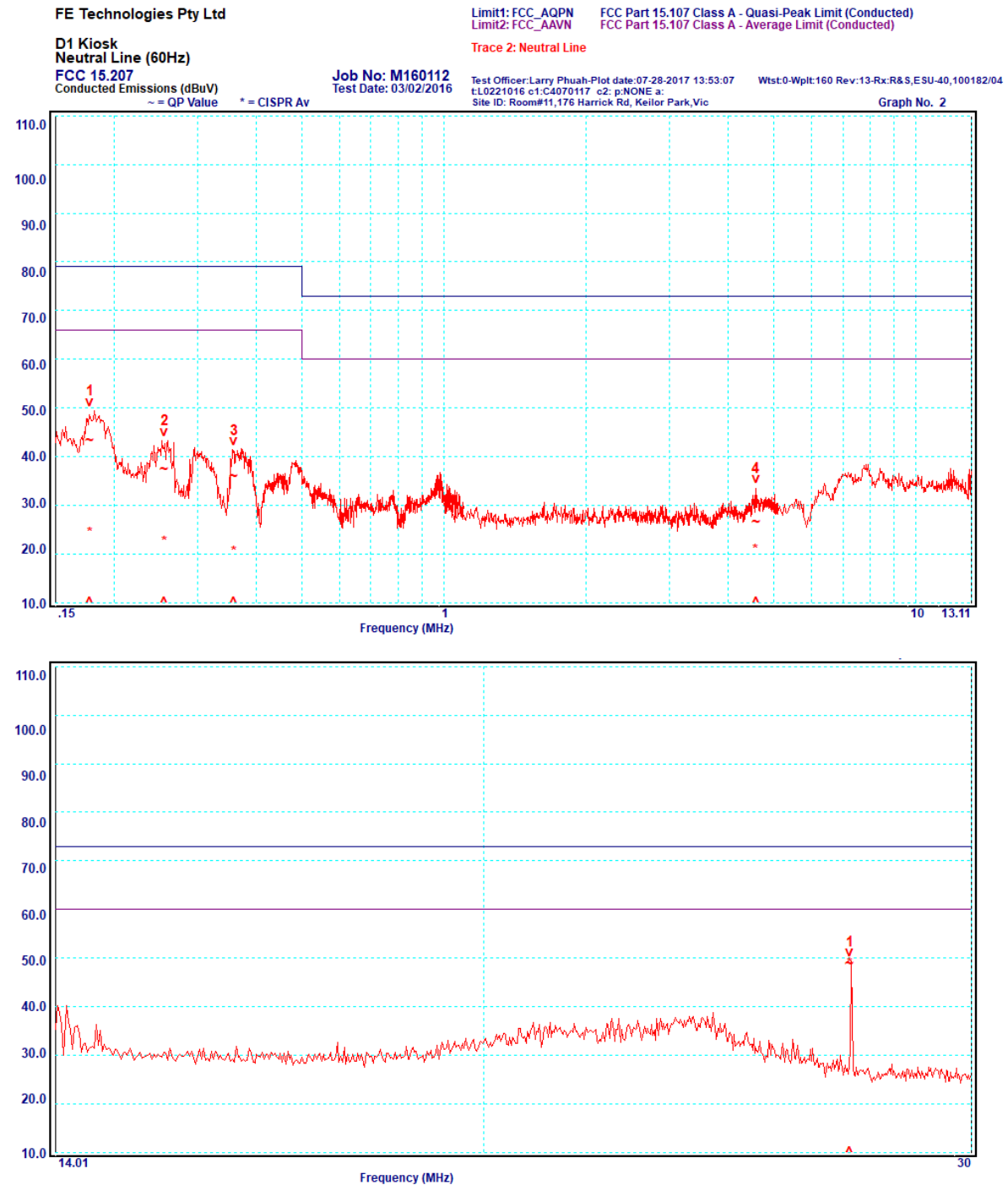
Accreditation No. 5292

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3.2.5.2 Neutral Line



Peak	Frequency [MHz]	Line	Quasi-Peak			Average		
			Level [dBμV]	Limit [dBμV]	Margin [±dB]	Level [dBμV]	Limit [dBμV]	Margin [±dB]
1	0.178	Neutral	43.2	79.0	-35.8	24.3	66.0	-41.7
2	0.256	Neutral	37.3	79.0	-41.7	22.3	66.0	-43.7
3	0.359	Neutral	35.8	79.0	-43.2	20.3	66.0	-45.7
4	4.584	Neutral	26.5	73.0	-46.5	20.7	60.0	-39.3
1	27.12	Neutral	48.7	73.0	-24.3	48.7	60.0	-11.3

3.2.6 Conclusion

The conducted emissions were below the Class A average and quasi-peak limits of §15.107.

3.3 §15.209 Radiated emission limits; general requirements

The general requirement limits were applied to the measurements of §15.225(d).

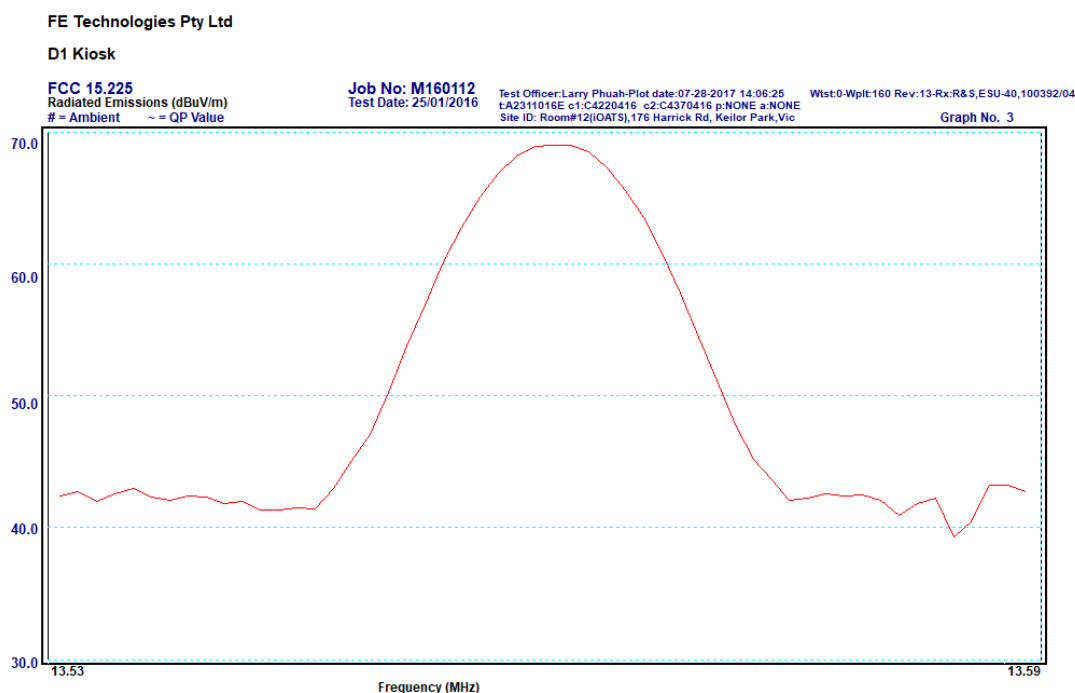
3.4 §15.225(a) Fundamental Field Strength

The field strength of the fundamental transmitted frequency was measured inside a compliant ANSI C63.4: 2014 semi-anechoic chamber. The EUT was positioned on a test turn-table and rotated through 360° to determine the highest emissions. The measurements were made with the loop antenna in three orthogonal orientations, the highest measurement was recorded.

3.4.1 Result

All measurements were made at a distance of 10 metres, the limit extrapolated by 20 dB/decade calculated according to ANSI C63.10 Clause 6.4.4. The fundamental emissions were measured using a peak detector and as the level did not exceed the limit further measurements were not made.

Frequency [MHz]	E(peak) at 10 m		30 m Limit [μV/m]	10 m Limit [μV/m]	Result
	[dBμV/m]	[μV/m]			
13.56	69.4	2,951	15,848	47,315	Complied



3.4.2 Conclusion

The field strength of the fundamental transmitted signal complied with the limit of §15.225(a).

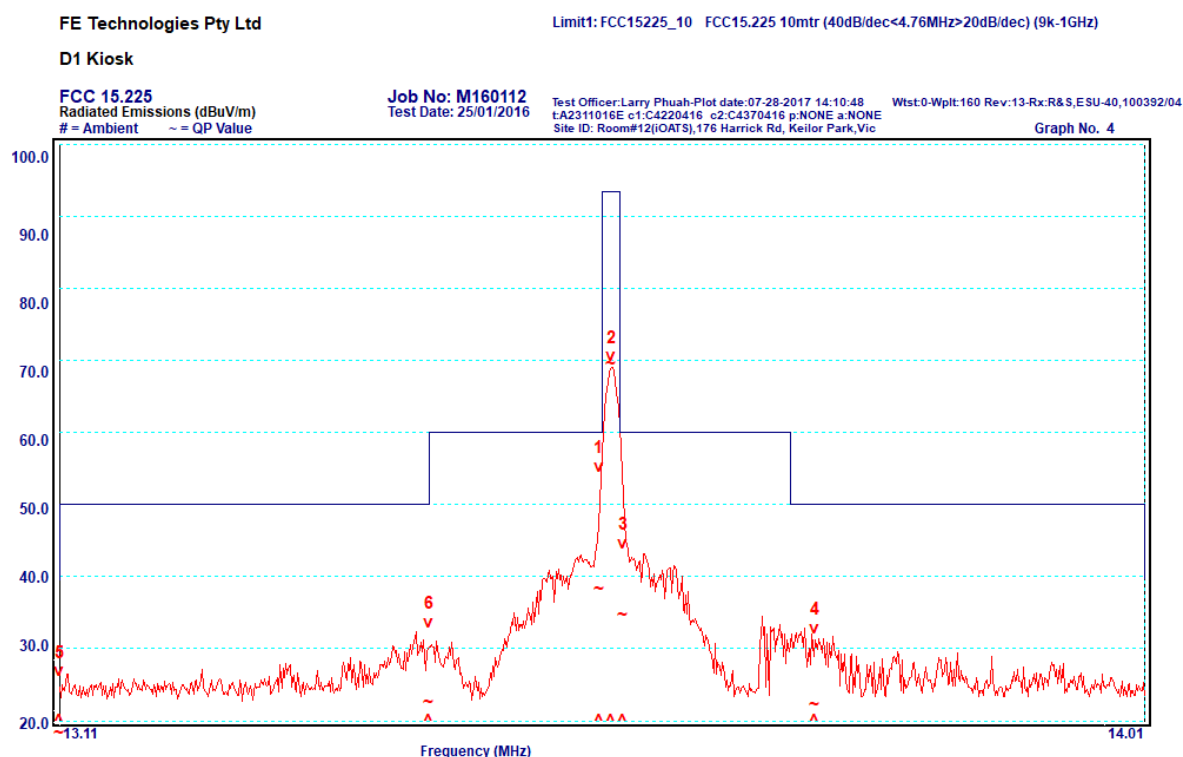
3.5 §15.225(b and c) Transmission Mask 13.110-14.010 MHz

Measurements were made at 10 metres using a 0.6 metre loop antenna, the limit extrapolated by 20 dB/decade calculated according to ANSI C63.10 Clause 6.4.4. Initial investigations were made to find the EUT and measuring antenna orientations that produce the highest reading on the EMI receiver/spectrum analyser. These measurements were made at the transmit frequency, 13.56 MHz.

With the EUT and measuring antenna orientated in the position giving maximum emission measurements with a bandwidth of 10 kHz were made between 13.110 MHz and 14.010 MHz. The following limit mask applied:

Frequency band [MHz]	Field strength limit at 30 m [$\mu\text{V/m}$]	Equivalent field strength at 10 m [$\text{dB}\mu\text{V/m}$]
13.110 to 13.410	106	50.1
13.410 to 13.553	334	60.0
13.553 to 13.567	15,848	93.5
13.567 to 13.710	334	60.0
13.710 to 14.010	106	50.1

3.5.1 Result



Point	Frequency [MHz]	Quasi-Peak at 10 m [$\text{dB}\mu\text{V/m}$]	Limit at 10 m [$\text{dB}\mu\text{V/m}$]	Result
3	13.11	18.3	50.1	Complied
6	13.41	22.5	60.0	Complied
5	13.55	38.2	60.0	Complied
1	13.56	69.4	93.5	Complied
4	13.57	34.6	60.0	Complied
2	13.73	22.1	50.1	Complied

3.5.2 Conclusion

The transmitted signal complied with the limit mask of §15.225(b and c).

3.6 §15.225(d) Spurious Emissions

Radiated EMI tests were performed in a semi-anechoic chamber compliant with ANSI C63.4: 2014. The chamber allows a 2m x 2m x 2m test volume up to 6 GHz, at a test distance of 3 metres and 10 metres.

The test frequency range was sub-divided into smaller bands with sufficient frequency resolution to permit reliable display and identification of possible EMI peaks. Measurements between 9 kHz and 30 MHz were made at 10 metres using a 0.6 metre loop antenna and calibrated Biconilog antenna for measurements between 30 MHz and 1000 MHz. Calibrated EMCO 3115, EMCO 3116 and ETS standard gain horn antennas were used for measurements between 1 to 25 GHz.

The EUT was slowly rotated with the spectrum analyser was set to Max-Hold. This was performed for two antenna heights. When an emission was located, it was positively identified and its maximum level found by rotating the automated turntable and by varying the antenna height. The procedure was repeated with the device orientated in three orthogonal axis to further maximise the emission.

Each significant peak was investigated with the Peak/Average Detectors. The measurement data for each frequency range was corrected for cable losses, antenna factors and preamplifier gain. This process was performed for both horizontal and vertical antenna polarisations.

3.6.1 Calculation of field strength

The field strength was calculated automatically by the software using all the pre-stored calibration data. The method of calculation is shown below:

$$E = V + AF - G + L$$

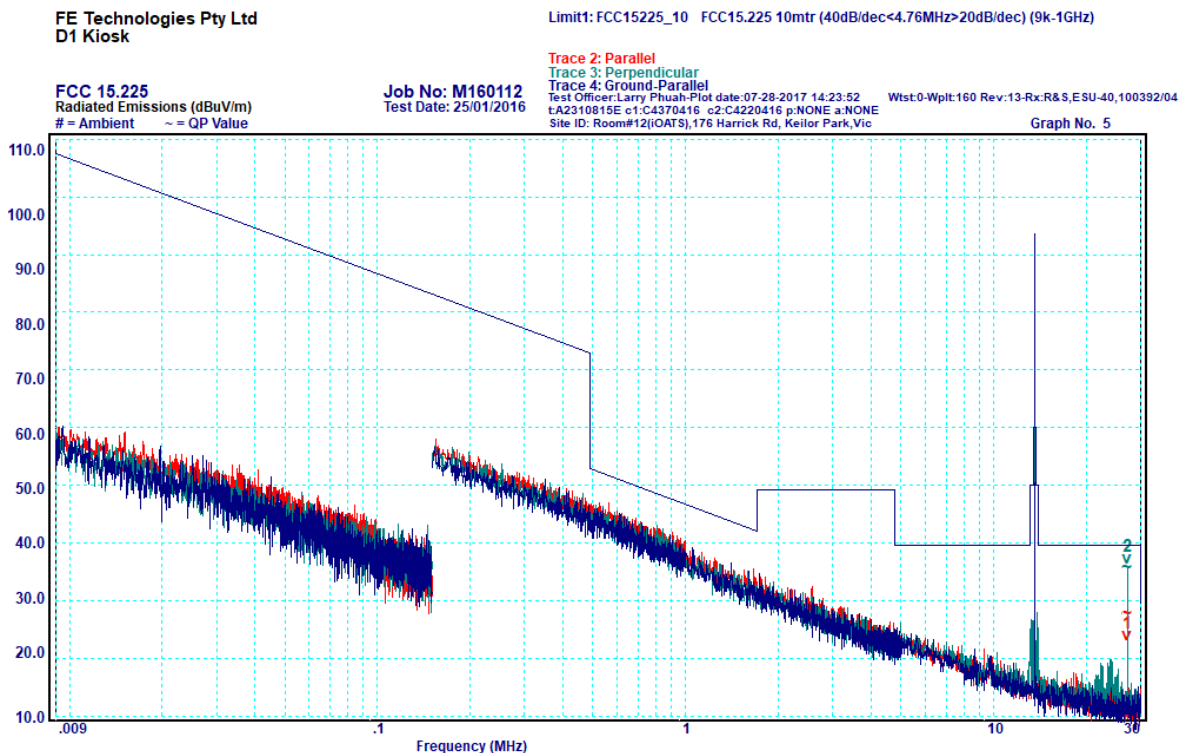
Where:

- E** = Radiated Field Strength in dBμV/m.
- V** = EMI Receiver Voltage in dBμV. (measured value)
- AF** = Antenna Factor in dB. (stored as a data array)
- G** = Preamplifier Gain in dB. (stored as a data array)
- L** = Cable loss in dB. (stored as a data array of Insertion Loss versus frequency)

3.6.2 Frequency Band: 9 kHz - 30 MHz

Measurements were made at a distance of 10 metres, the limit was extrapolated by 40 dB/decade below 4.76 MHz and 20 dB/decade above 4.76 MHz calculated according to ANSI C63.10 Clause 6.4.4. The measurement of emissions between 9 kHz – 150 kHz were made with a resolution bandwidth (RBW) of 200 Hz and the video bandwidth (VBW) of 3 kHz, 150 kHz – 30 MHz were measured with the resolution bandwidth (RBW) of 9 kHz and the video bandwidth (VBW) of 30 kHz.

3.6.2.1 Results

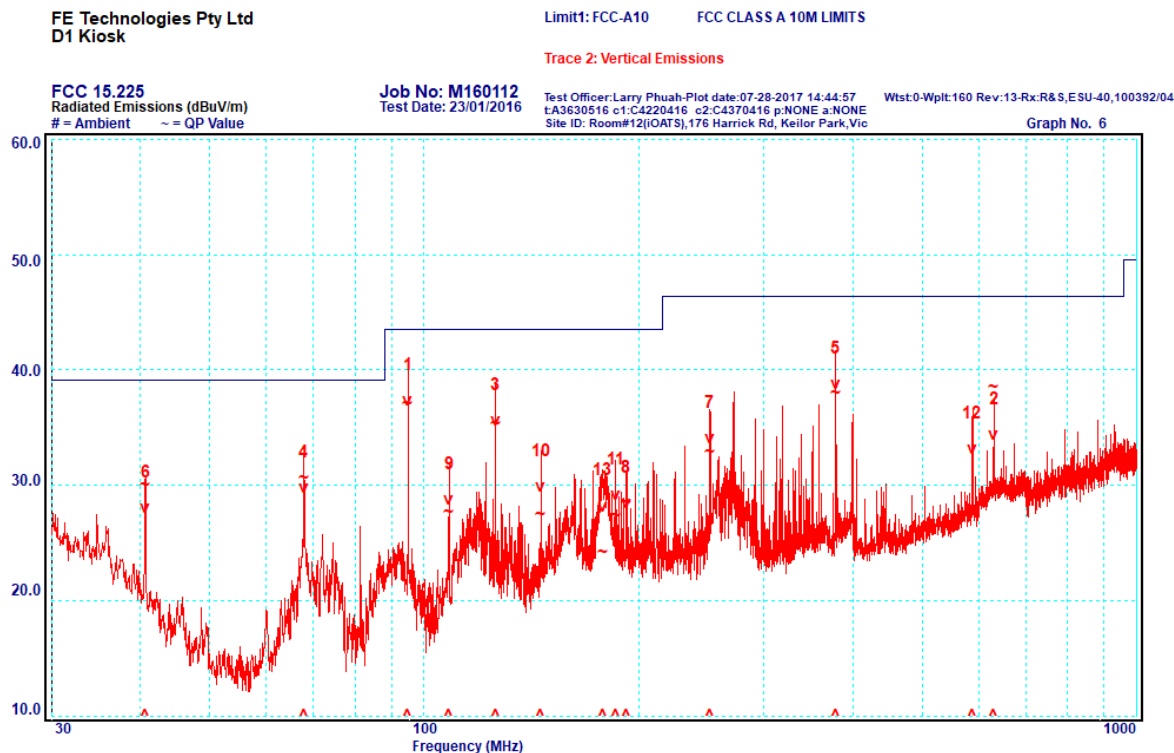


Point	Frequency [MHz]	Loop Orientation	Quasi-Peak [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
1	27.12	Parallel	27.80	39.50	-11.7
2	27.12	Perpendicular	35.70	39.50	-3.8

3.6.3 Frequency Band: 30 - 1000 MHz

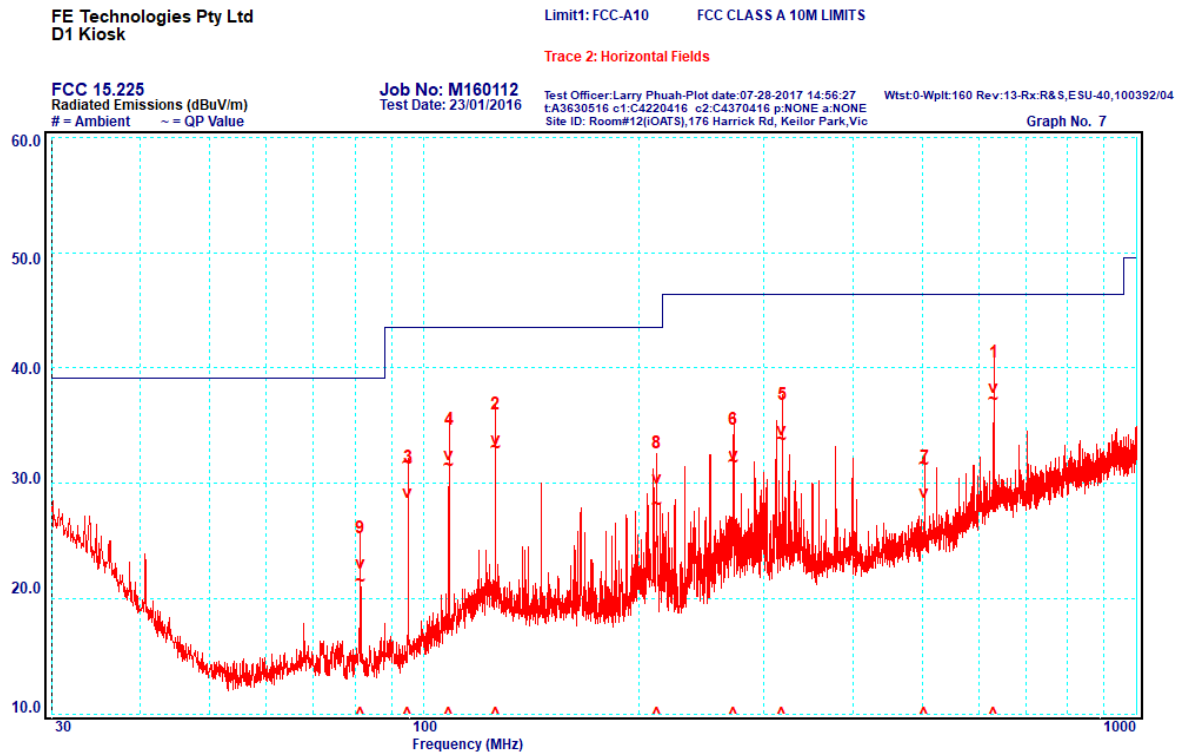
Measurements were made at a distance of 10 metres. The measurement of emissions between 30 - 1000 MHz were made with a resolution bandwidth (RBW) of 120 kHz and the video bandwidth (VBW) of 300 kHz.

3.6.3.1 Vertical Polarisation



Point	Frequency [MHz]	Quasi-Peak [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	94.92	37.1	43.5	-6.4
2	630.00	38.5	46.4	-7.9
3	126.00	35.4	43.5	-8.1
4	67.80	30.7	39.1	-8.4
5	378.00	38.0	46.4	-8.4
6	40.68	30.0	39.1	-9.1
7	252.00	32.9	46.4	-13.5
8	192.32	28.5	43.5	-15.0
9	108.48	27.6	43.5	-15.9
10	145.89	27.5	43.5	-16.0
11	185.65	27.3	43.5	-16.2
12	588.07	27.7	46.4	-18.7
13	178.12	24.2	43.5	-19.3

3.6.3.2 Horizontal Polarisation

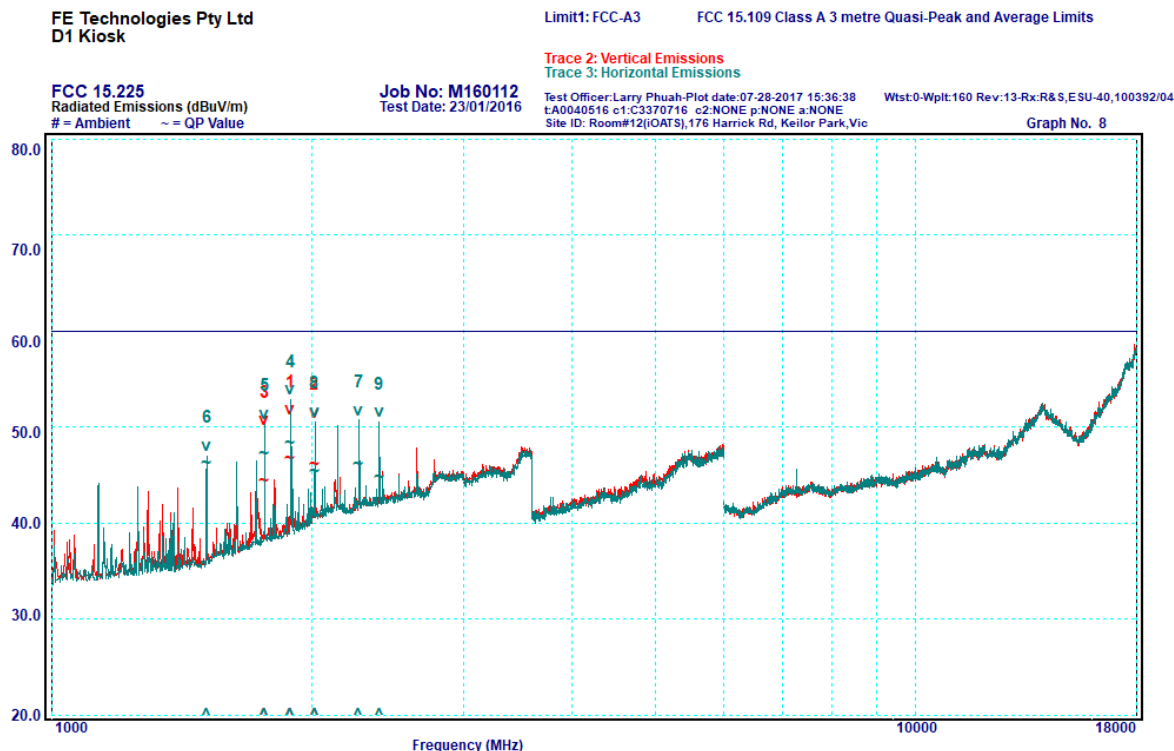


Point	Frequency [MHz]	Quasi-Peak [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	630.00	37.2	46.4	-9.2
2	126.00	33.1	43.5	-10.4
3	94.92	31.8	43.5	-11.7
4	108.48	31.5	43.5	-12.0
5	318.32	33.8	46.4	-12.6
6	271.89	31.8	46.4	-14.6
7	504.00	31.6	46.4	-14.8
8	212.21	28.2	43.5	-15.3
9	81.36	21.5	39.1	-17.6

3.6.4 Frequency Band: 1000 - 18000 MHz

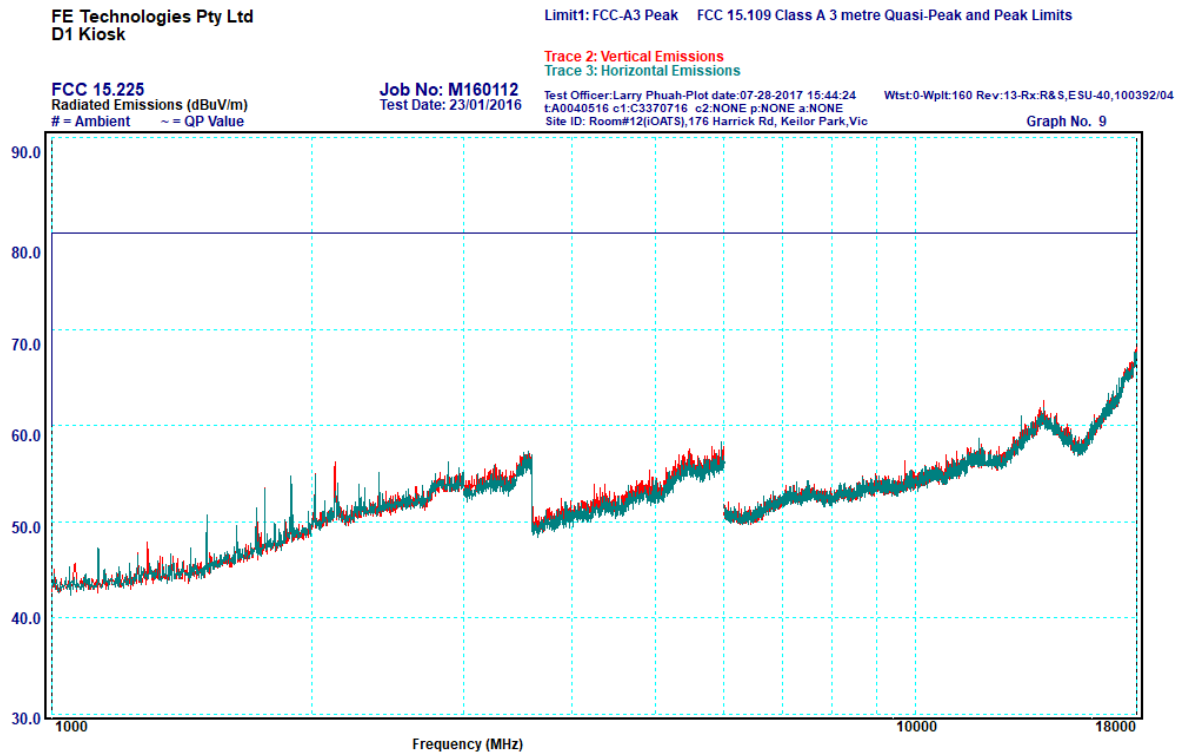
Measurements were made at a distance of 3 metres. The measurement of emissions between 1000 - 18000 MHz were made with a resolution bandwidth (RBW) of 1 MHz and a video bandwidth (VBW) of 10 Hz for average measurements and 1 MHz for peak measurements.

3.6.4.1 Average Measurements



Point	Frequency [MHz]	Polarity	Average [dBuV/m]	Limit [dBuV/m]	Margin [dB]
1	1889.96	Vertical	46.7	60.0	-13.3
2	2015.93	Vertical	46.0	60.0	-14.0
3	1763.93	Vertical	44.4	60.0	-15.6
4	1889.96	Horizontal	48.3	60.0	-11.7
5	1764.10	Horizontal	47.2	60.0	-12.8
6	1512.05	Horizontal	46.2	60.0	-13.8
7	2268.02	Horizontal	46.1	60.0	-13.9
8	2015.72	Horizontal	45.4	60.0	-14.6
9	2393.98	Horizontal	44.8	60.0	-15.2

3.6.4.2 Peak Measurements



3.6.5 Conclusion

The spurious emissions complied with the Class A limits of §15.109 by a margin of 3.8 dB.

3.7 §15.225(e) Frequency Tolerance

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of $-20\text{ }^{\circ}\text{C}$ to $+50\text{ }^{\circ}\text{C}$ at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of $20\text{ }^{\circ}\text{C}$. For battery operated equipment, the equipment tests shall be performed using a new battery. After the sample stabilised at each temperature the transmitter was turned on and the fundamental frequency was measured at regular intervals.

ANSI C63.10 Clause 6.8 procedure was applied.

Nominal Supply	12.0 VDC
85%	10.2 VDC
115%	13.8 VDC

Temp [$^{\circ}\text{C}$]	0 min [MHz]	2 min [MHz]	5 min [MHz]	10 min [MHz]
50	13.55992	13.55991	13.55991	13.55991
40	13.55994	13.55993	13.55991	13.55991
30	13.55995	13.55994	13.55994	13.55993
20	13.55999	13.55998	13.55995	13.55994
10	13.56002	13.56001	13.55999	13.55998
0	13.56005	13.56004	13.56002	13.56001
-10	13.56006	13.56006	13.56005	13.56004
-20	13.56004	13.56005	13.56006	13.56006

Temp. = 20°C

Supply	[MHz]
85%	13.55994
115%	13.55994

Lowest frequency recorded = 13.55991 MHz
Highest frequency recorded = 13.56006 MHz

Result:

Limit (MHz) = $13.558644 < f < 13.561356$

Measurement uncertainty = $\pm 5\text{ Hz}$

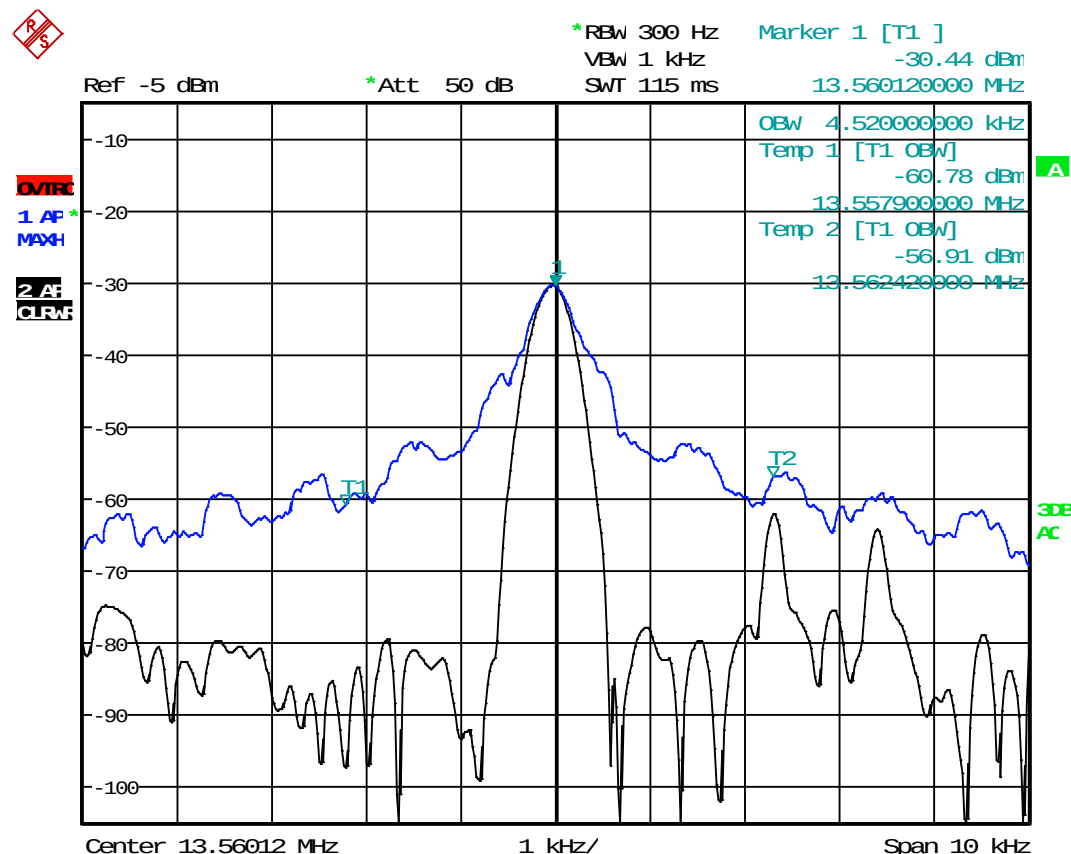
The sample complied with the frequency stability requirements.

3.8 §2.1049 Occupied bandwidth – 99% power

The bandwidth containing 99% power of the transmitted signal was measured using the procedure from ANSI C63.10 section 6.9.

Result:

The 99% power bandwidth was **4.52 kHz**.



4.0 COMPLIANCE STATEMENT

The D1 Desktop Loan Station tested on behalf of FE Technologies **complied** with the requirements of 47 CFR, Part 15 Subpart C - Rules for Radio Frequency Devices (intentional radiators), Section 15.225 - Operation within the band 13.110-14.010 MHz.

5.0 MEASUREMENT UNCERTAINTY

EMC Technologies has evaluated the equipment and the methods used to perform the emissions testing. The estimated measurement uncertainties for emissions tests shown within this report are as follows:

Conducted Emissions:	9 kHz to 30 MHz	±3.2 dB
Radiated Emissions:	9 kHz to 30 MHz	±4.1 dB
	30 MHz to 300 MHz	±5.1 dB
	300 MHz to 1000 MHz	±4.7 dB
	1 GHz to 18 GHz	±4.6 dB

The above expanded uncertainties are based on standard uncertainties multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.