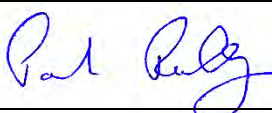


Test Report Num	26E12234-2
Quotation	Q26-280710-1
Prepared For	Coroflo Ltd.
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Tested By	Michael Kirby / Joy Dalayap
Test Report By	Michael Kirby
FCC Test Firm Registration	IE0002
Date	30 th Sept 2026
EUT Description	Breast Feeding Monitor
FCC ID	2BX7G-C01
Authorised by	Paul Reilly
Authorised Signature:	

TEST SUMMARY

The equipment complies with the requirements according to the following standards.

FCC 15.247 Section	TEST PARAMETERS	Test Result
15.247 (a)2	6dB bandwidth	Pass
15.247 (e)	Power Spectral Density	Pass
15.247 (b)3	Output power Conducted	Pass
15.247 (d)	Conducted Spurious Emissions	Pass
15.205 15.209	Radiated Spurious Emissions	Pass
	99% bandwidth	Pass

Test procedures

ANSI C63.10:2020

American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

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Exhibit A – Technical Report

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1.0 EUT Description

The EUT was a battery powered sensor (for breast feeding application) that transmits data over a custom BLE link.

Software used to control the EUT

"The production firmware of the device enables access to BLE test modes supplied with TI Simplelink SDK Version 5.30.00.03. These modes are enabled over BLE from a custom Python application via a Silicon Labs BLED112 adapter connected to a laptop

The worst case results are reported here.

1.1 EUT Operation

Operating Conditions during Test:

Conducted measurements were carried out on a sample (Sample #001) where the antenna was replaced by cable and SMA. The EUT was powered from its internal battery for all conducted tests

The EUT was operated in test mode where the channel and modulation was set via USB connection from the EUT to a laptop.

Radiated measurements were performed on a sample (Sample #002) with standard internal antenna and powered from its internal battery which was fully charged prior to testing.

There is no specific test firmware for the device; there is only production firmware with BLE controls for BLE test modes. The measured duty cycle occurred during normal operation with the maximum data rate selected.

The firmware setting for output power was setting 2 for all tests.

Environmental conditions

	Temperature	Relative Humidity
Test	°C	%
Conducted Emissions	21.2	49
Radiated Emissions <1GHz	18	42
Radiated Emissions >1GHz	19	47

1.2 Modifications

No modifications were required in order to pass the test specifications.

1.3 Date of Test

The tests were carried out on 7th, 8th and 30th Sept 2026.

1.4 Description of Test modes

Channel List

Channel	Channel	Freq MHz
Low	1	2402
Mid	19	2440
High	39	2480

All tests were performed with the EUT on the low mid and high channels.

1.5 Description of the test methods

Tests were performed manually, and no special test software was used.

Preliminary tests were carried out and this report contains the worst-case results.

2 Emissions Measurements

2.1 Conducted Emissions Measurements

Radio Conducted measurements were carried out on the EUT as per section 1.1 above.

All results were measured as conducted on the antenna except radiated spurious emissions.

2.2 Radiated Emissions Measurements

Radiated Power measurements were made at the Compliance Engineering Ireland Ltd anechoic chamber located in Dunshaughlin, Co. Meath, Ireland to determine the radio noise radiated from the EUT. A "Description of Measurement Facilities" has been submitted to the FCC and approved pursuant to Section 2.948 of CFR 47 of the FCC rules.

The EUT was centred on a motorized turntable, which allows 360 degree rotation.

Emissions below 1GHz were measured using a test antenna positioned at a distance of 3 metres from the EUT (as measured from the closest point of the EUT). The radiated emissions were maximised by configuring the EUT, by rotating the EUT, and by raising and lowering the antenna from 1 to 4 metres. In this case the resolution bandwidth was 100kHz.

Emissions in the 1GHz-18GHz range were measured using a horn antenna located at 3 metres distance from the EUT in a fully anechoic chamber.

The radiated emissions were maximised by configuring the EUT and by rotating the EUT, and by raising and lowering the test antenna from 1 to 4 metres.

Emissions above 18GHz were measured using a horn antenna located at 1 metre distance from the EUT in a fully anechoic chamber. The radiated emissions peaks where detected were maximised by configuring the EUT and by rotating the EUT and raising the test and antenna from 1 to 4 metres.

In this case the resolution bandwidth was 1MHz and video bandwidth was 3 MHz. for peak measurements. The Video bandwidth was changed to 10Hz for Average measurements (as per ANSI 63.10 2013 Section 4.1.4.2.3)

A pre-scan was performed to determine the worst case EUT orientation for the radiated measurements.

All radiated tests were performed with the EUT in orientation O2 for Horizontal polarization measurements and with the EUT in orientation O1 for Vertical polarisation measurements.

Ref Appendix E for orientations.

3.0 Results for Conducted emissions on the mains

The unit does not transmit when connected to the charger.
Test is not applicable.

4. Conducted Measurements

4.1 Bandwidth

4.1.1 6dB bandwidth

Test Method
As per Ansi 63.10 Section 11.8.2

Ansi63.10 Section 11.8.2 Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥6 dB.

Limit for 6dB Bandwidth = 500KHz min

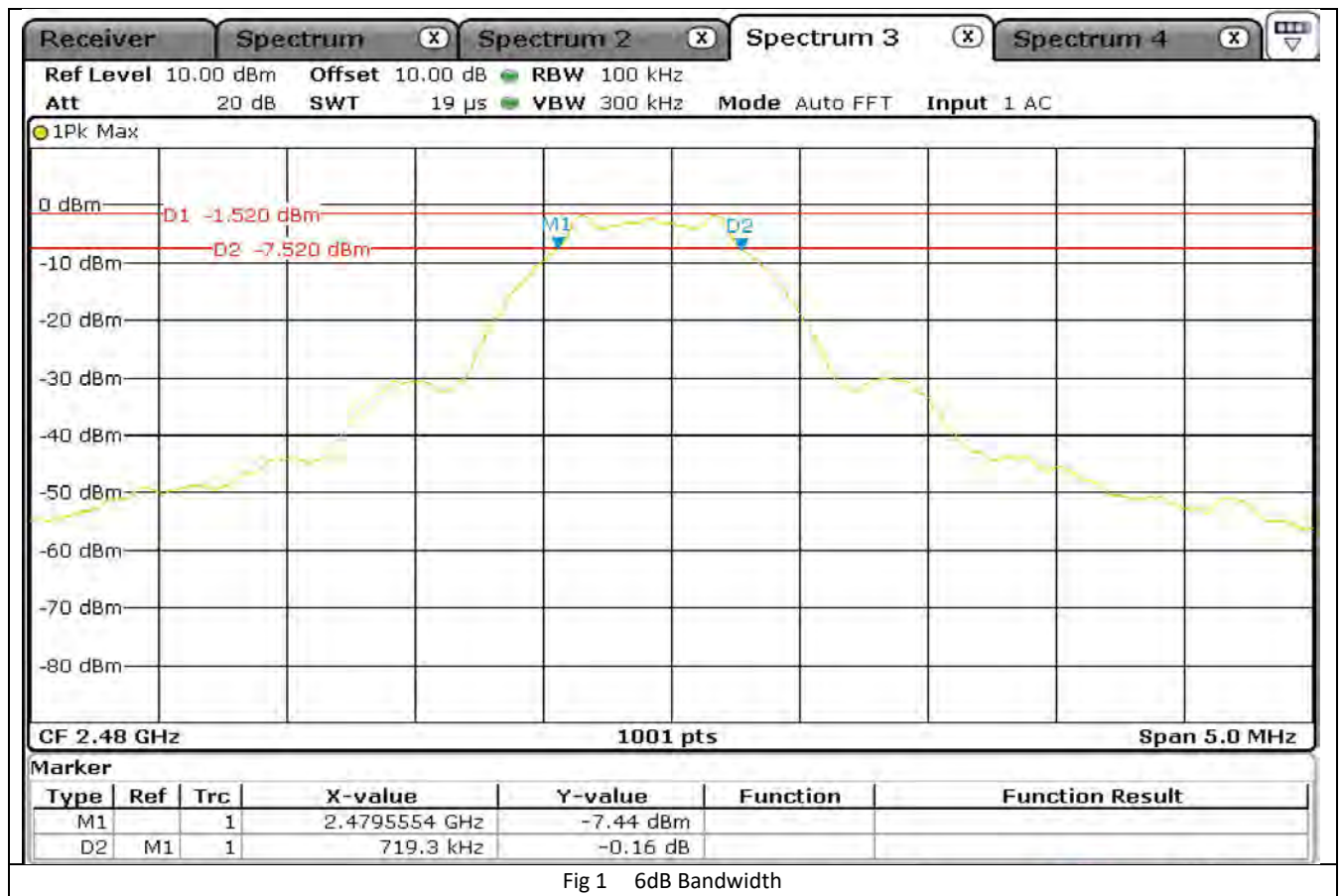


Fig 1 6dB Bandwidth

Frequency	6dB Bandwidth	Limit Min	Margin
GHz	kHz	kHz	kHz
2.402	719.6	500	219.6
2.44	719.3	500	219.3
2.48	719.3	500	219.3

Result :- Pass

4.1.2 99% bandwidth

Test Method
As per Ansi 63.10 Section 6.9.3

Ansi63.10 Section 6.9.3 Occupied bandwidth—power bandwidth (99%) measurement procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring 99% power bandwidth:

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- Step a) through step c) might require iteration to adjust within the specified range.
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

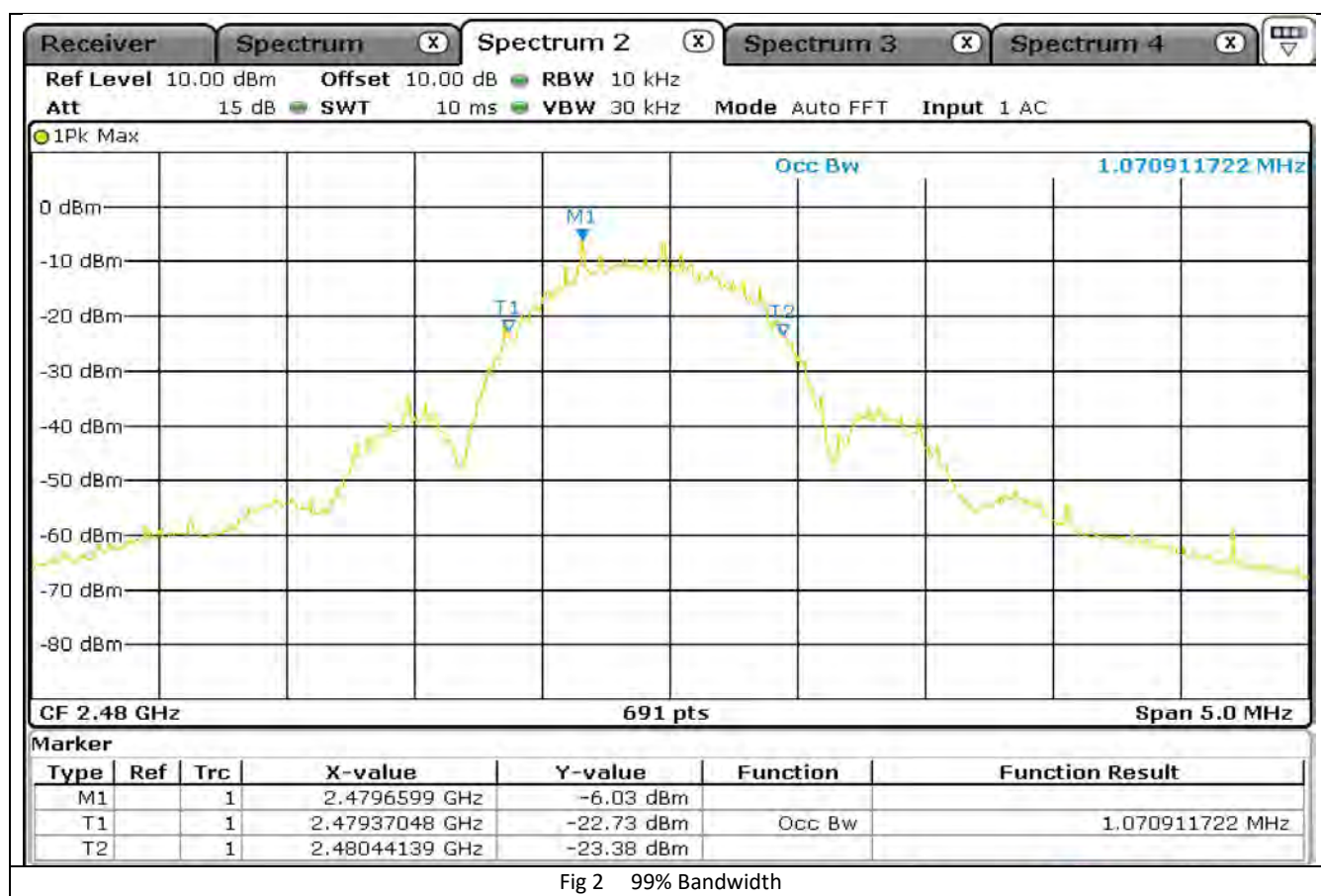


Fig 2 99% Bandwidth

Frequency	99% Bandwidth
GHz	MHz
2.402	1.071
2.440	1.071
2.48	1.071

Result :- Pass

4.2 Duty Cycle

Test Method
As per Ansi 63.10 Section 7.5 KDB 558074 zero span measurement method

Ansi 63.10 Section 7.5 **Procedure for determining the average value of pulsed emissions**
Unless otherwise specified, when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 s (100 ms). In cases where the pulse train exceeds 0.1 s, the measured field strength shall be determined during a 0.1 s interval. The following procedure is an example of how the average value may be determined. The average field strength may be found by measuring the peak pulse amplitude (in log equivalent units) and determining the duty cycle correction factor (in dB) associated with the pulse modulation as shown in Equation (10):

$\delta(\text{dB}) = 20\log(\Delta) \quad (10)$

where
 δ is the duty cycle correction factor (dB)
 Δ is the duty cycle (dimensionless)

This correction factor may then be subtracted from the peak pulse amplitude (in dB) to find the average emission.

Results

Duty Cycle
Note the duty cycle results below show how the sample operated during testing.
T period =100mS window

Duty cycle (d) =Ton/Tperiod =0.32756ms/100ms =0.0033

=> Duty cycle correction factor =20*log (d) = -49.63 dB

Note this duty cycle correction is used to compute the average measurements for pulsed signal in later sections of this report.

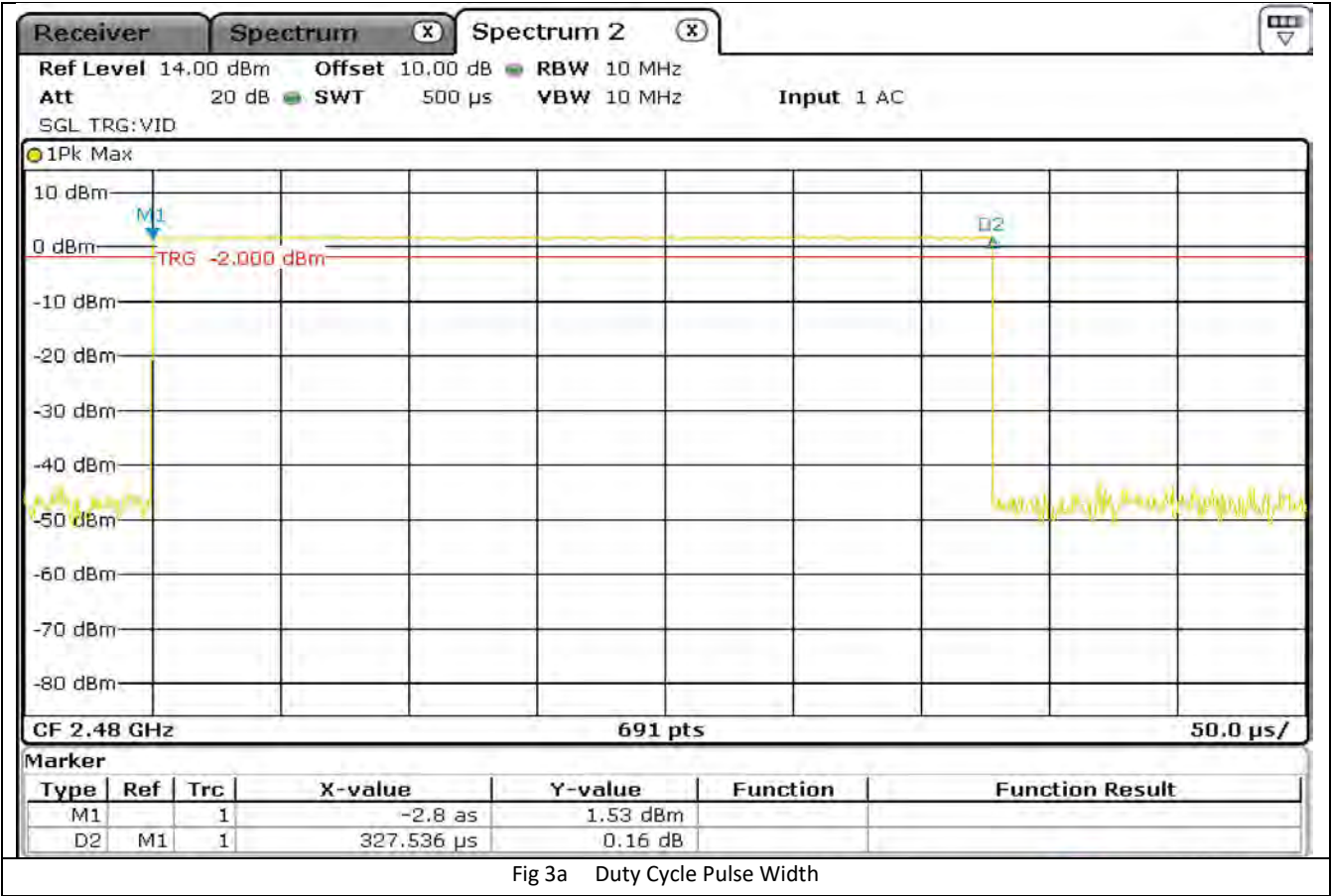
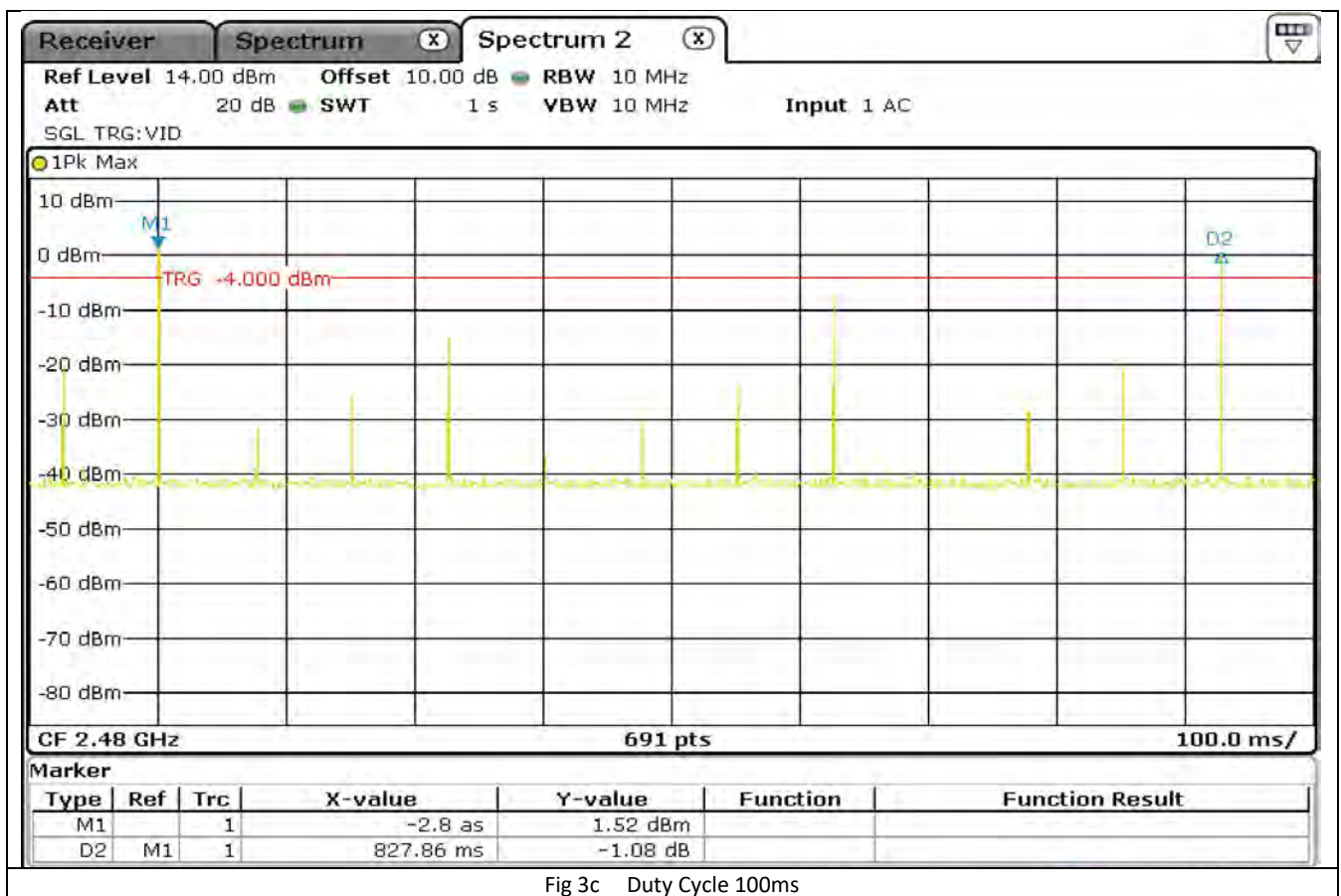
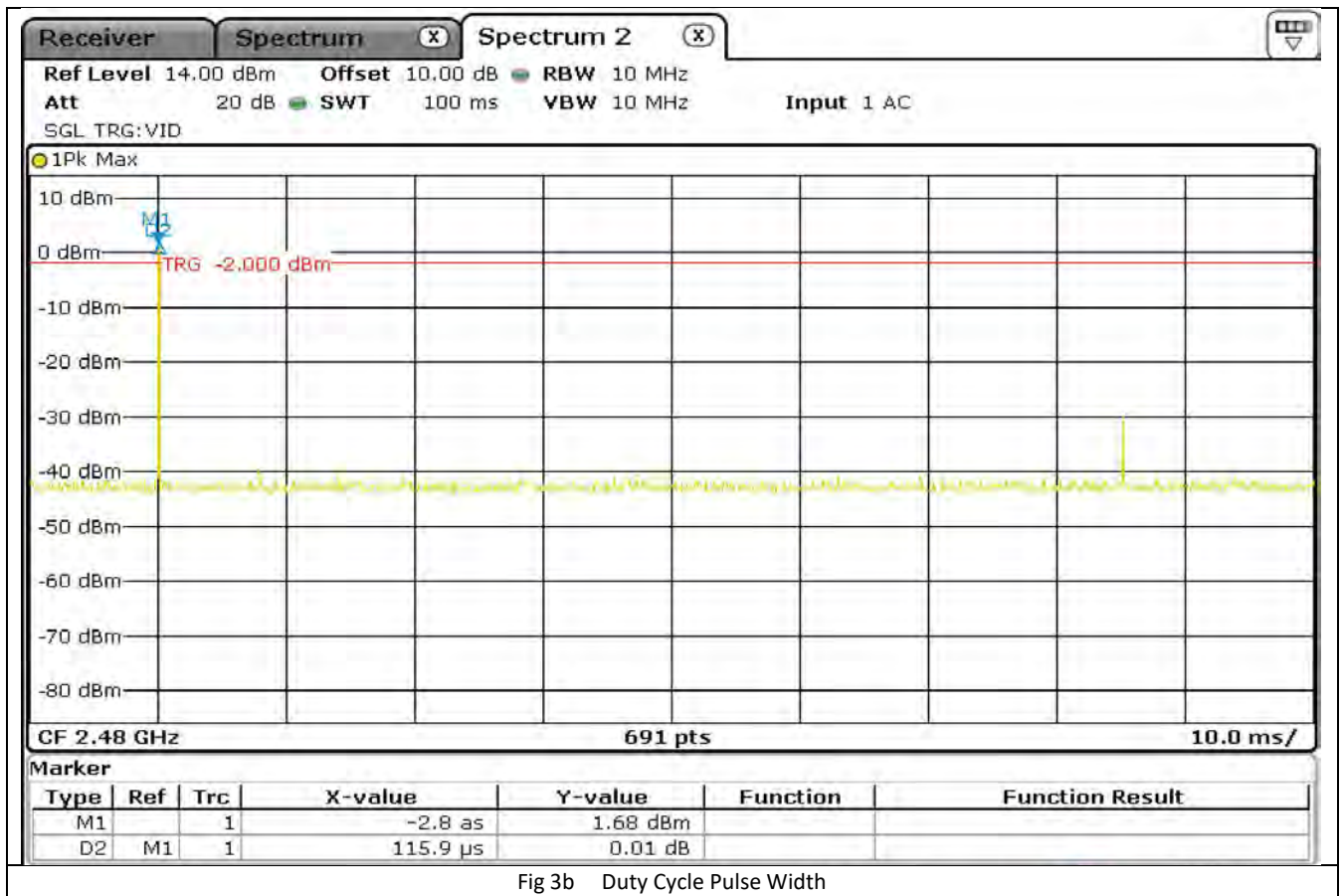


Fig 3a Duty Cycle Pulse Width



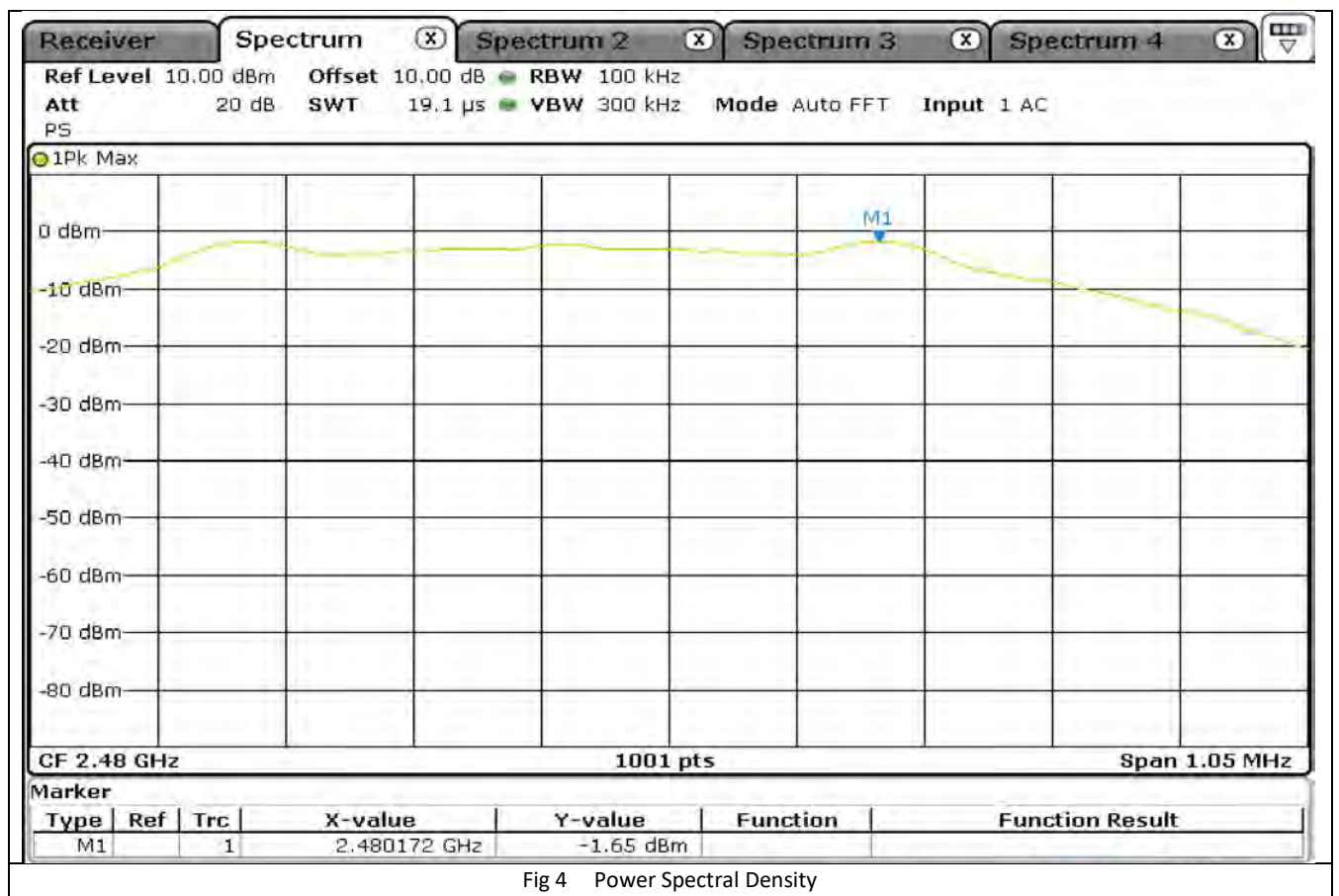
4.3 Power Spectral Density

Test Method
As per Ansi 63.10 Section 11.10.2

Ansi63.10 Section **Section 11.10.2 Method PKPSD (peak PSD)**

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.



Frequency	Measurement Conducted Peak	Limit	Margin
GHz	dBm	dBm	dB
2.402	-1.24	8	9.24
2.44	-1.4	8	9.4
2.48	-1.63	8	9.63

Result :- Pass

4.4 Output power Conducted

4.4.1 Test Method

As per Ansi 63.10 Section 11.9..1.1

Ansi63.10 Section 11.9.1.1 RBW $\geq$ DTS bandwidth

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq [3 \times \text{RBW}]$.
- Set span $\geq [3 \times \text{RBW}]$.
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

4.4.2 Results

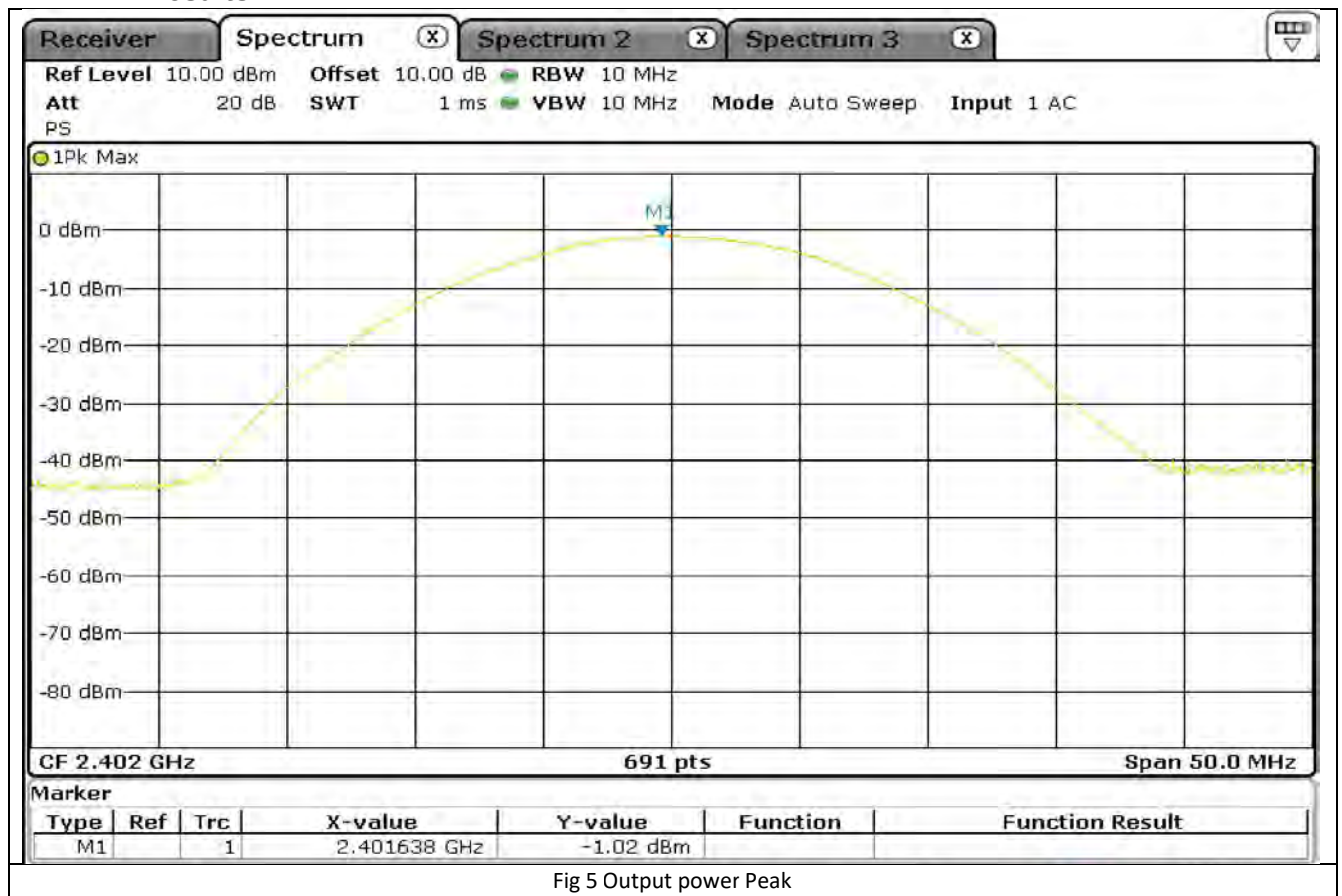


Fig 5 Output power Peak

Frequency	Measurement Conducted Peak	Limit	Margin
GHz	dBm	dBm	dB
2.402	-1.02	30	31.02
2.44	-1.25	30	31.25
2.48	-1.49	30	31.49

Test Result :- Pass

5. Spurious Emissions Measurements

5.1 Conducted Spurious Emissions

5.1.1 Test Method

As per Ansi63.10 Section 11.11.1 and 6.10.4

Ansi63.10 Section 11.11.1 General

Typical regulatory requirements specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions⁸⁹:

a) If the maximum peak conducted output power procedure was used to determine compliance as described in 11.9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

Ansi63.10 Section 6.10.4 Authorized-band band-edge measurements (relative method)

These procedures are applicable for determining compliance at authorized-band band-edges where the requirements are expressed as a value relative to the in-band signal level. Procedures for determining compliance with field strength limits at or close to the band-edges are given in 6.10.6 (see also Table A.2).

5.1.2 Results

Frequency	100kHz RBW	dBc Limit Min	Margin	Result
GHz	dBm	dB	dB	P/F
2.402	-1.75	20	-	-
4.804	-29.95	20	7.98	Pass
7.206	-38.7	20	16.73	Pass

Frequency	100kHz RBW	dBc Limit Min	Margin	Result
GHz	dBm	dB	dB	P/F
2.44	-1.97	20	-	-
4.88	-31.9	20	9.93	Pass
7.319	-42.16	20	20.19	Pass

Frequency	100kHz RBW	dBc Limit Min	Margin	Result
GHz	dBm	dB	dB	P/F
2.48	-2.66	20	-	-
4.96	-33.48	20	10.82	Pass
7.44	-38.45	20	15.79	Pass

Ref Appendix A for Scans

Test Result: - Pass

5.2 Radiated Spurious Emissions in Restricted bands

5.2.1 Test Method

As per Ansi63.10 Section 11.12.1 and 6.10.5

Ansi63.10 Section 11.12.1 Radiated emission measurements

Because the typical emission requirements are specified in terms of radiated field strength levels, measurements performed to determine compliance have traditionally relied on a radiated test configuration.⁹² Radiated measurements remain the principal method for determining compliance to the specified requirements; however antenna-port conducted measurements are also now acceptable to determine compliance (see 11.12.2 for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in 6.3, 6.5, and 6.6 shall be followed

6.10.5 Restricted-band band-edge measurements

These procedures are applicable for determining compliance at band edges of restricted bands.

6.10.5.1 Test setup

Restricted-band band-edge tests shall be performed as radiated measurements, on a test site meeting the specifications in 5.2 at the measurement distances specified in 5.3.⁵⁷

The instrumentation shall meet the requirements in 4.1.1 using the bandwidths and detectors specified in 4.1.4.2. Considering the requirements of 5.8, the antenna(s) shall be connected to the antenna ports. When performing radiated measurements, the measurement antenna(s) shall meet the specifications in 4.3. The EUT shall be connected to an antenna and operated at the highest power settings following procedures in 6.3, and the relevant procedure in 6.4, 6.5, or 6.6

As per Ansi 63.10 Section 11.12.2.5.2

5.2.2 Results Low Channel

Frequency	Quasi peak Level	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Final Field Strength Quasi Peak	Average Limit	Margin	Result
MHz	dBµV/m		V/H	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
238.160	-4.9	O2	Vertical	15.5	0	2.5	13.1	46.0	32.9	Pass
229.740	-6.6	O3	Horizontal	15.5	0	2.5	11.4	46.0	34.6	Pass
597.870	-9.9	O2	Vertical	19.3	0	4.2	13.6	46.0	32.4	Pass
606.150	-8.3	O3	Horizontal	19.4	0	4.1	15.2	46.0	30.8	Pass

Final Field Strength Quasi Peak (dBµV/m) = Quasi peak Level (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB)
 Calculation Example 13.1 = -4.9 + 15.5 - 0 + 2.5

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Final Field Strength Peak	Average Limit	Margin for Peak v Average Limit +20dB	Result
GHz	dBµV/m		V/H	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
4.804	56.1	O2	Vertical	33.1	39.3	7.8	57.7	54.0	16.3	Pass
4.804	55.8	O3	Horizontal	33.1	39.3	7.8	57.4	54.0	16.6	Pass
12.100	42.8	O2	Vertical	39.1	37	10.9	55.8	54.0	18.2	Pass
12.100	42.4	O3	Horizontal	39.1	37	10.9	55.4	54.0	18.6	Pass

Final Field Strength Peak (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB)
 Calculation Example 57.7 = 56.1 + 33.1 - 39.3 + 7.8

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Duty Cycle correction	Final Field Strength Average	Average Limit	Margin	Result
GHz	dBµV/m		V/H	dB	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
4.804	56.1	O2	Vertical	33.1	39.3	7.8	-49.6	8.0	54.0	46.0	Pass
4.804	55.8	O3	Horizontal	33.1	39.3	7.8	-49.6	7.8	54.0	46.2	Pass
12.100	42.8	O2	Vertical	39.1	37	10.9	-49.6	6.2	54.0	47.8	Pass
12.100	42.4	O3	Horizontal	39.1	37	10.9	-49.6	5.8	54.0	48.2	Pass

Final Field Strength Average (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB) +Duty Cycle correction (dB)
 Calculation Example 8 = 56.1 + 33.1 - 39.3 + 7.8 + -49.6

Note duty cycle correction for Average measurement of pulsed signal -49.6dB as per Section 4.2 of this report

Test Result Pass

5.2.3 Results Mid Channel

Frequency	Quasi peak Level	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Final Field Strength Quasi Peak	Average Limit	Margin	Result
MHz	dBµV/m		V/H	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
603.900	-8.3	O2	Vertical	19.4	0	4.2	15.3	46.0	30.7	Pass
591.090	-9.4	O3	Horizontal	19.3	0	4	13.9	46.0	32.1	Pass

Final Field Strength Quasi Peak (dBµV/m) = Quasi peak Level (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB)
Calculation Example 15.3 = -8.3 + 19.4 - 0 + 4.2

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Final Field Strength Peak	Average Limit	Margin for Peak v Average Limit +20dB	Result
GHz	dBµV/m		V/H	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
4.880	55.0	O2	Vertical	33.2	39	7.8	57.0	54.0	17.0	Pass
4.880	55.4	O3	Horizontal	33.2	39	7.8	57.4	54.0	16.6	Pass
7.320	62.9	O2	Vertical	36.4	40.6	10.1	68.8	54.0	5.2	Pass
7.320	65.5	O3	Horizontal	36.4	40.6	10.1	71.4	54.0	2.6	Pass
12.200	42.8	O2	Vertical	39	36.8	10.8	55.8	54.0	18.2	Pass
12.200	43.1	O3	Horizontal	39	36.8	10.8	56.1	54.0	17.9	Pass

Final Field Strength Peak (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB)
Calculation Example 57 = 55 + 33.2 - 39 + 7.8

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Duty Cycle correction	Final Field Strength Average	Average Limit	Margin	Result
GHz	dBµV/m		V/H	dB	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
4.880	55.0	O2	Vertical	33.2	39	7.8	-49.6	7.4	54.0	46.6	Pass
4.880	55.4	O3	Horizontal	33.2	39	7.8	-49.6	7.7	54.0	46.2	Pass
7.320	62.9	O2	Vertical	36.4	40.6	10.1	-49.6	19.2	54.0	34.8	Pass
7.320	65.5	O3	Horizontal	36.4	40.6	10.1	-49.6	21.8	54.0	32.2	Pass
12.200	42.8	O2	Vertical	39	36.8	10.8	-49.6	6.1	54.0	47.8	Pass
12.200	43.1	O3	Horizontal	39	36.8	10.8	-49.6	6.5	54.0	47.5	Pass

Final Field Strength Average (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB) +Duty Cycle correction (dB)
Calculation Example 7.4 = 55 + 33.2 - 39 + 7.8 + -49.6

Note duty cycle correction for Average measurement of pulsed signal -49.6dB as per Section 4.2 of this report

Test Result Pass

5.2.4 Results High Channel

Frequency	Quasi peak Level	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Final Field Strength Quasi Peak	Average Limit	Margin	Result
MHz	dBµV/m		V/H	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
244.920	-7.0	O2	Vertical	15.7	0	2.5	11.2	46.0	34.8	Pass
229.140	-5.6	O3	Horizontal	15.1	0	2.5	12.0	46.0	34.0	Pass
601.320	-8.5	O2	Vertical	19.4	0	4.2	15.1	46.0	30.9	Pass
595.020	-9.3	O3	Horizontal	19.3	0	4.2	14.2	46.0	31.8	Pass

Final Field Strength Quasi Peak (dBµV/m) = Quasi peak Level (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB)

Calculation Example 11.2 = -7 + 15.7 - 0 + 2.5

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Final Field Strength Peak	Average Limit	Margin for Peak v Average Limit +20dB	Result
GHz	dBµV/m		V/H	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
4.960	55.9	O2	Vertical	33.5	39.2	8	58.2	54.0	15.8	Pass
4.960	56.3	O3	Horizontal	33.5	39.2	8	58.6	54.0	15.4	Pass
7.440	59.6	O2	Vertical	36.6	40.8	10.4	65.8	54.0	8.2	Pass
7.440	63.8	O3	Horizontal	36.6	40.8	10.4	70.0	54.0	4.0	Pass
12.400	41.7	O2	Vertical	39	37.1	11.3	54.9	54.0	19.1	Pass
12.400	41.3	O3	Horizontal	39	37.1	11.3	54.5	54.0	19.5	Pass

Final Field Strength Peak (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB)

Calculation Example 58.2 = 55.9 + 33.5 - 39.2 + 8

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Duty Cycle correction	Final Field Strength Average	Average Limit	Margin	Result
GHz	dBµV/m		V/H	dB	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
4.960	55.9	O2	Vertical	33.5	39.2	8	-49.6	8.5	54.0	45.4	Pass
4.960	56.3	O3	Horizontal	33.5	39.2	8	-49.6	9.0	54.0	45.0	Pass
7.440	59.6	O2	Vertical	36.6	40.8	10.4	-49.6	16.1	54.0	37.8	Pass
7.440	63.8	O3	Horizontal	36.6	40.8	10.4	-49.6	20.4	54.0	33.6	Pass
12.400	41.7	O2	Vertical	39	37.1	11.3	-49.6	5.3	54.0	48.7	Pass
12.400	41.3	O3	Horizontal	39	37.1	11.3	-49.6	4.9	54.0	49.1	Pass

Final Field Strength Average (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB) +Duty Cycle correction (dB)

Calculation Example 8.5 = 55.9 + 33.5 - 39.2 + 8 + -49.6

Note duty cycle correction for Average measurement of pulsed signal -49.6dB as per Section 4.2 of this report

Test Result Pass

5.3 Radiated Band Edge / Restricted band Measurements

11.13.3.2 Peak detection

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used:

- a) Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).
- b) Set span to 2 MHz.
- c) RBW = 100 kHz.
- d) VBW $\geq [3 \times \text{RBW}]$.
- e) Detector = peak.
- f) Sweep time = auto.
- g) Trace mode = max hold.
- h) Allow sweep to continue until the trace stabilizes (required measurement time may increase for low-duty-cycle applications).
- i) Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency ($f_{\text{emission}} \pm 0.5 \text{ MHz}$). If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by $f_{\text{emission}} \pm 0.5 \text{ MHz}$.

5.3.1 Result Radiated Restricted Band and band edge near 2.4 GHz band

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Final Field Strength Peak	Average Limit	Margin for Peak v Average Limit +20dB	Result
GHz	dBµV/m		V/H	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
2.2	29.5	O2	Vertical	27.8	0	4.6	61.9	54.0	12.1	Pass
2.269	32.3	O2	Vertical	28	0	4.7	65.0	54.0	9.0	Pass
2.3	29.3	O2	Vertical	28	0	4.7	62.0	54.0	12.0	Pass
2.31	30.4	O2	Vertical	28	0	4.7	63.1	54.0	10.9	Pass
2.39	31.6	O2	Vertical	28.4	0	4.8	64.8	54.0	9.2	Pass
2.4	32.6	O2	Vertical	28.6	0	4.8	66.0	54.0	8.0	Pass
2.2	28.8	O3	Horizontal	27.8	0	4.6	61.2	54.0	12.8	Pass
2.269	33.5	O3	Horizontal	28	0	4.7	66.2	54.0	7.8	Pass
2.3	30.1	O3	Horizontal	28	0	4.7	62.8	54.0	11.2	Pass
2.31	28.3	O3	Horizontal	28	0	4.7	61.0	54.0	13.0	Pass
2.39	30.1	O3	Horizontal	28.4	0	4.8	63.3	54.0	10.7	Pass
2.4	32.8	O3	Horizontal	28.6	0	4.8	66.2	54.0	7.8	Pass

Final Field Strength Peak (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB)
Calculation Example **61.9 = 29.5 + 27.8 - 0 + 4.6**

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Duty Cycle correction	Final Field Strength Average	Average Limit	Margin	Result
GHz	dBµV/m		V/H	dB	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
2.2	29.5	O2	Vertical	27.8	0	4.6	-49.6	12.3	54.0	41.7	Pass
2.269	32.3	O2	Vertical	28	0	4.7	-49.6	15.4	54.0	38.6	Pass
2.3	29.3	O2	Vertical	28	0	4.7	-49.6	12.4	54.0	41.6	Pass
2.31	30.4	O2	Vertical	28	0	4.7	-49.6	13.4	54.0	40.5	Pass
2.39	31.6	O2	Vertical	28.4	0	4.8	-49.6	15.1	54.0	38.8	Pass
2.4	32.6	O2	Vertical	28.6	0	4.8	-49.6	16.4	54.0	37.6	Pass
2.2	28.8	O3	Horizontal	27.8	0	4.6	-49.6	11.5	54.0	42.5	Pass
2.269	33.5	O3	Horizontal	28	0	4.7	-49.6	16.5	54.0	37.5	Pass
2.3	30.1	O3	Horizontal	28	0	4.7	-49.6	13.2	54.0	40.8	Pass
2.31	28.3	O3	Horizontal	28	0	4.7	-49.6	11.4	54.0	42.6	Pass
2.39	30.1	O3	Horizontal	28.4	0	4.8	-49.6	13.6	54.0	40.4	Pass
2.4	32.8	O3	Horizontal	28.6	0	4.8	-49.6	16.5	54.0	37.5	Pass

Final Field Strength Average (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB) +Duty Cycle correction (dB)
Calculation Example **12.3 = 29.5 + 27.8 - 0 + 4.6 + -49.6**

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Final Field Strength Peak	Average Limit	Margin for Peak v Average Limit +20dB	Result
GHz	dBµV/m		V/H	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
2.4835	31.6	O2	Vertical	28.6	0	4.9	65.1	54.0	8.9	Pass
2.5	30.5	O2	Vertical	28.8	0	4.9	64.2	54.0	9.8	Pass
2.4835	30.8	O3	Horizontal	28.6	0	4.9	64.3	54.0	9.7	Pass
2.5	30.3	O3	Horizontal	28.8	0	4.9	64.0	54.0	10.0	Pass

Final Field Strength Peak (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB)
 Calculation Example $65.1 = 31.6 + 28.6 - 0 + 4.9$

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamp Gain	Cable loss	Duty Cycle correction	Final Field Strength Average	Average Limit	Margin	Result
GHz	dBµV/m		V/H	dB	dB	dB	dB	dBµV/m	dBµV/m	dB	P/F
2.4835	31.6	O2	Vertical	28.6	0	4.9	-49.6	15.5	54.0	38.5	Pass
2.5	34.4	O2	Vertical	28.8	0	4.9	-49.6	18.5	54.0	35.5	Pass
2.4835	31.7	O3	Horizontal	28.6	0	4.9	-49.6	15.6	54.0	38.4	Pass
2.5	34.3	O3	Horizontal	28.8	0	4.9	-49.6	18.3	54.0	35.6	Pass

Final Field Strength Average (dBµV/m) = Reading Peak (dBµV/m) + Antenna Factor (dB)- Pre-amp Gain (dB) +Cable Loss (dB) +Duty Cycle correction (dB)
 Calculation Example $15.5 = 31.6 + 28.6 - 0 + 4.9 + -49.6$

From section 4.2, Duty cycle correction was used to compute the Average measurements

Ref Appendix B for scans

Test Result: - Pass

5.4 Radiated Power at fundamental

Frequency	Reading Peak	EUT Orientation	Antenna Polarity	Antenna Factor	Preamplifier Gain	Cable loss	Final Field Strength Peak	Transmitted Power	Limit	Margin	Result
GHz	dBμV/m		V/H	dB	dB	dB	dBμV/m	dBm	dBm	dB	P/F
2.402	61.7	O2	Vertical	28.6	0	4.8	95.06	-0.14	36.0	36.14	Pass
2.402	61.6	O3	Horizontal	28.6	0	4.8	94.98	-0.22	36.0	36.22	Pass
2.440	62.6	O2	Vertical	28.6	0	4.8	96.03	0.83	36.0	35.17	Pass
2.440	61.8	O3	Horizontal	28.6	0	4.8	95.20	0.00	36.0	36	Pass
2.480	62.0	O2	Vertical	28.6	0	4.9	95.52	0.32	36.0	35.68	Pass
2.480	62.2	O3	Horizontal	28.6	0	4.9	95.74	0.54	36.0	35.46	Pass

Final Field Strength Peak (dBμV/m) = Reading Peak (dBμV/m) + Antenna Factor (dB) - Pre-amp Gain (dB) + Cable Loss (dB)
Calculation Example $95.06 = 61.7 + 28.6 - 0 + 4.8$

Transmitted power (dBm) = Final Field Strength Peak (dBμV/m) - 95.2 dB
Calculation Example $-0.14 = 95.06 - 95.2$

Note the Radiated field strength was measured at 3 metres and the conversion formula below was used to determine the EIRP in dBm

$$EIRP (dBm) = E_{3m} (dB\mu V/m) - 95.2$$

Test Result Pass

6 List of Test Equipment

Asset num	Description	Manufacturer	Model	Serial Num	Last cal	Cal interval	Cal due
869	Receiver 10Hz to 3.6GHz	Rohde and Schwarz	ESR	101625	22-Jul-26	36	22-Jul-29
1277	Spectrum Analyser 9kHz to 40GHz	Rohde and Schwarz	FSV40-N	102216	19-Dec-25	36	19-Dec-28
906	Chamber Fully Anechoic	CEI	FAR 3M	906	08-Aug-25	36	08-Aug-28
845	Chamber Semi-Anechoic	CEI	SAC 10M	845	02-Jan-26	36	02-Jan-29
655	Antenna Horn 18GHz EMCO 3115	EMCO	3115	9905-5809	13-Mar-25	36	13-Mar-28
609	Antenna Log Periodic 300MHz - 1 GHz	Chase	UPA6108	1072	05-Nov-24	36	05-Nov-27
805	Pre-Amplifier Microwave	Hewlett Packard	83017A	3123A00175	10-Aug-26	12	10-Aug-27
1097	High Pass Filter 3 GHz			1097	10-Aug-26	12	10-Aug-27
911	Attenuator Variable 70dB	Hewlett Packard	849A		10-Aug-26	12	10-Aug-27
705	Cable Green HF K-type 1.5m			705	10-Aug-26	12	10-Aug-27
1213	Cable N-type 20m			1213	10-Aug-26	12	10-Aug-27
1092	Cable Dark Blue SMA 1 metre			1092	10-Aug-26	12	10-Aug-27
914	Cable SMA 10m			914	10-Aug-26	12	10-Aug-27
917	Cable HF purple K-type 1.8m			917	10-Aug-26	12	10-Aug-27
853	Cable SMA to N-type 1.5m			853	10-Aug-26	12	10-Aug-27
875	Cable BNC 4.6m			875	18-Mar-26	12	18-Mar-27
877	Antenna Horn Standard Gain 18GHz-26.5GHz	A-INFO	LB-42-25-C-KF	J2021091103028	10-Aug-26	12	10-Aug-27
847	Antenna Biconical	EMCO	93110	847	30-Oct-24	36	30-Oct-27
1280	Receiver 10Hz to 26.5 GHz	Rohde and Schwarz	ESR26	101716	13-Feb-26	36	13-Feb-29
1065	Antenna Loop EMCO 6502	EMCO	6502	2233	15-Dec-23	36	15-Dec-26

7 Measurement Uncertainties

Measurement	Uncertainty
Radio Frequency	$\pm 5 \times 10^{-7}$
Radiated Emissions 30MHz to 300MHz	± 4.1 dB
Radiated Emissions 300MHz to 1GHz	± 2.9 dB
Radiated Emissions 1GHz to 3GHz	± 2.4 dB
Radiated Emissions 3GHz to 18GHz	± 3.1 dB
Radiated Emissions 18GHz to 26GHz	± 4.0 dB

The measurement uncertainties stated were calculated with a $k=2$ for a confidence level of over 95% as per ETS TR100 028.

The test data can be compared directly to the specification limit to determine compliance, as the calculated measurement uncertainty meets the requirements of the applicable specification.

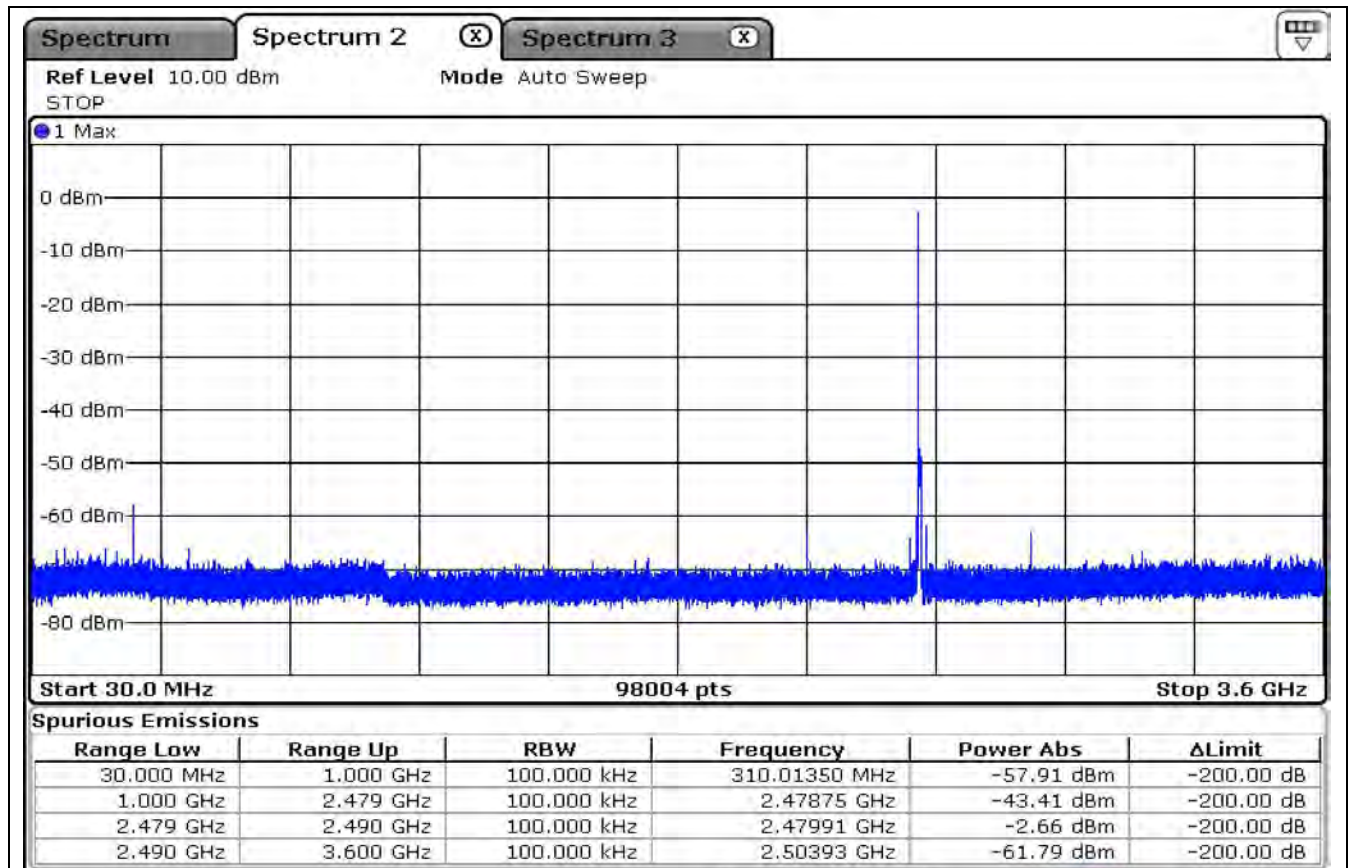
Appendix A Conducted Measurements on the Antenna Port

Fig A1 Conducted Spurious Emissions 30MHz -3.6GHz

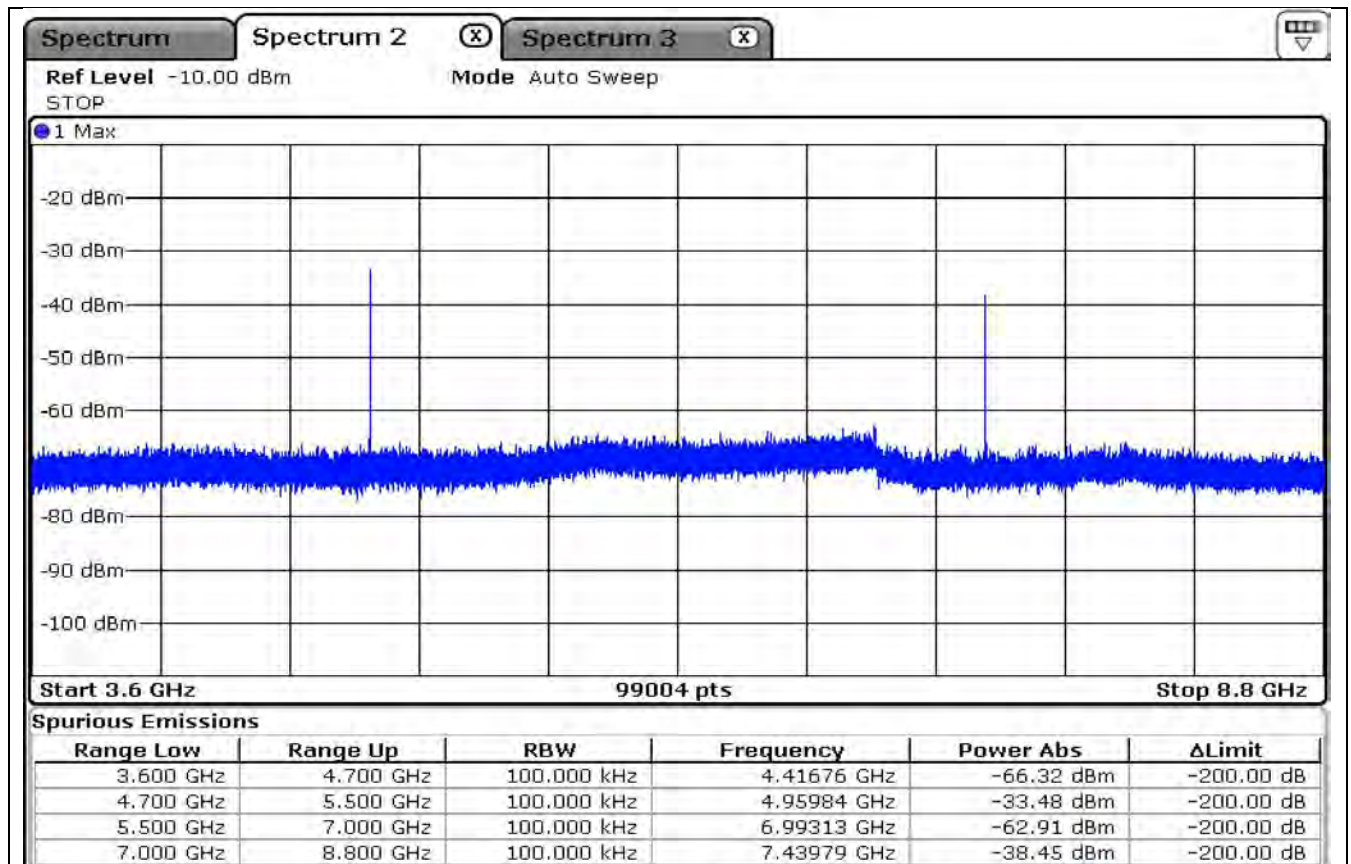
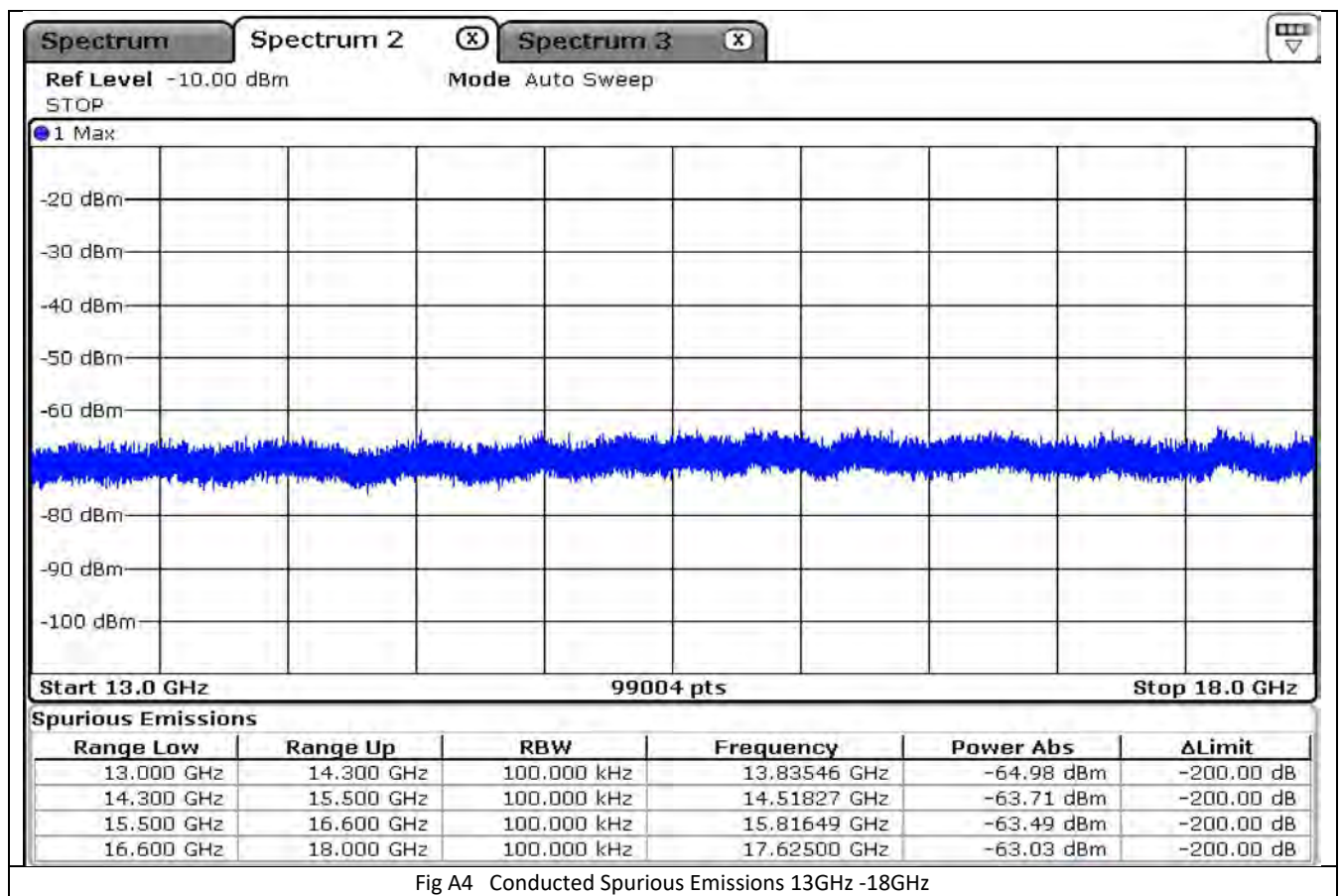
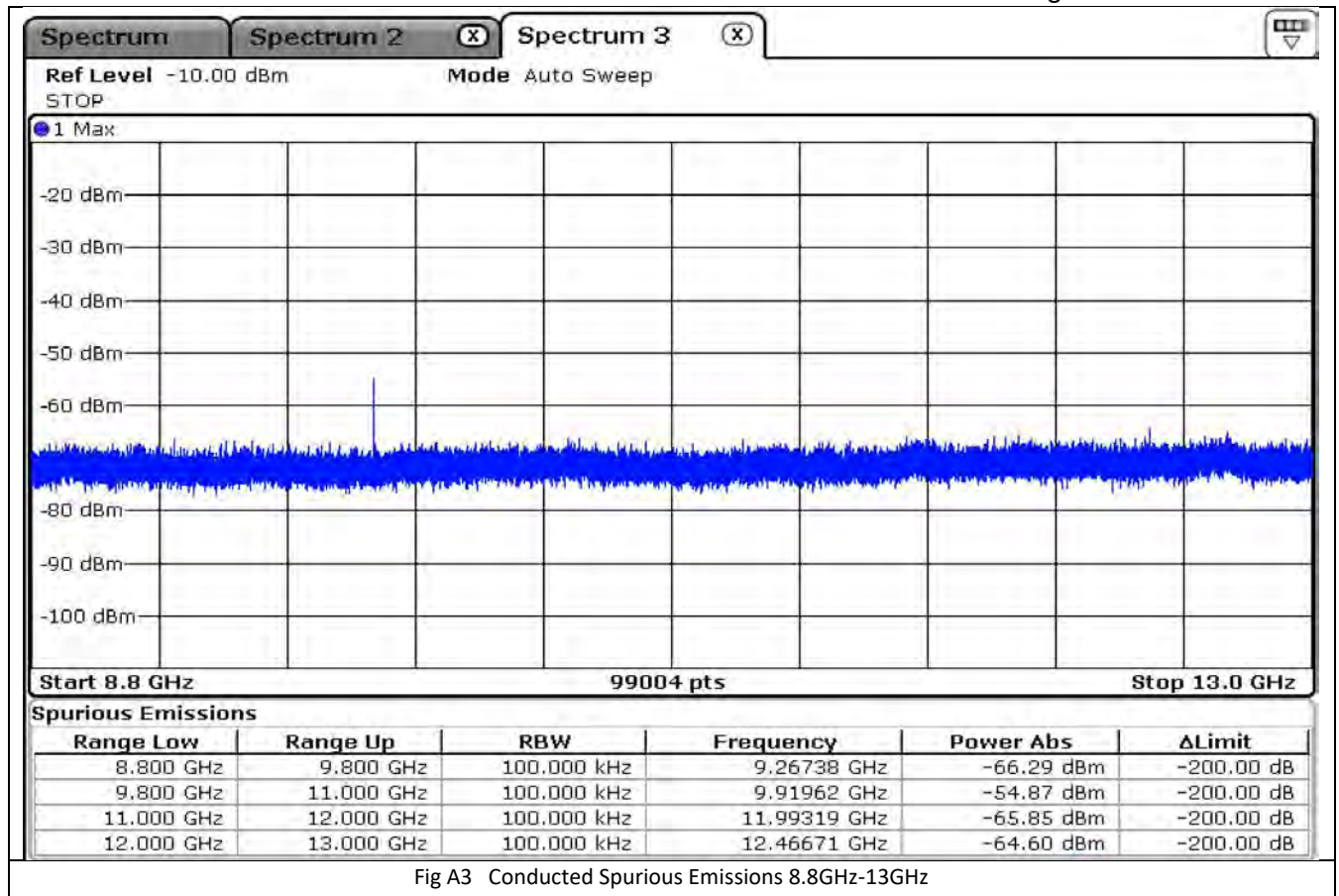
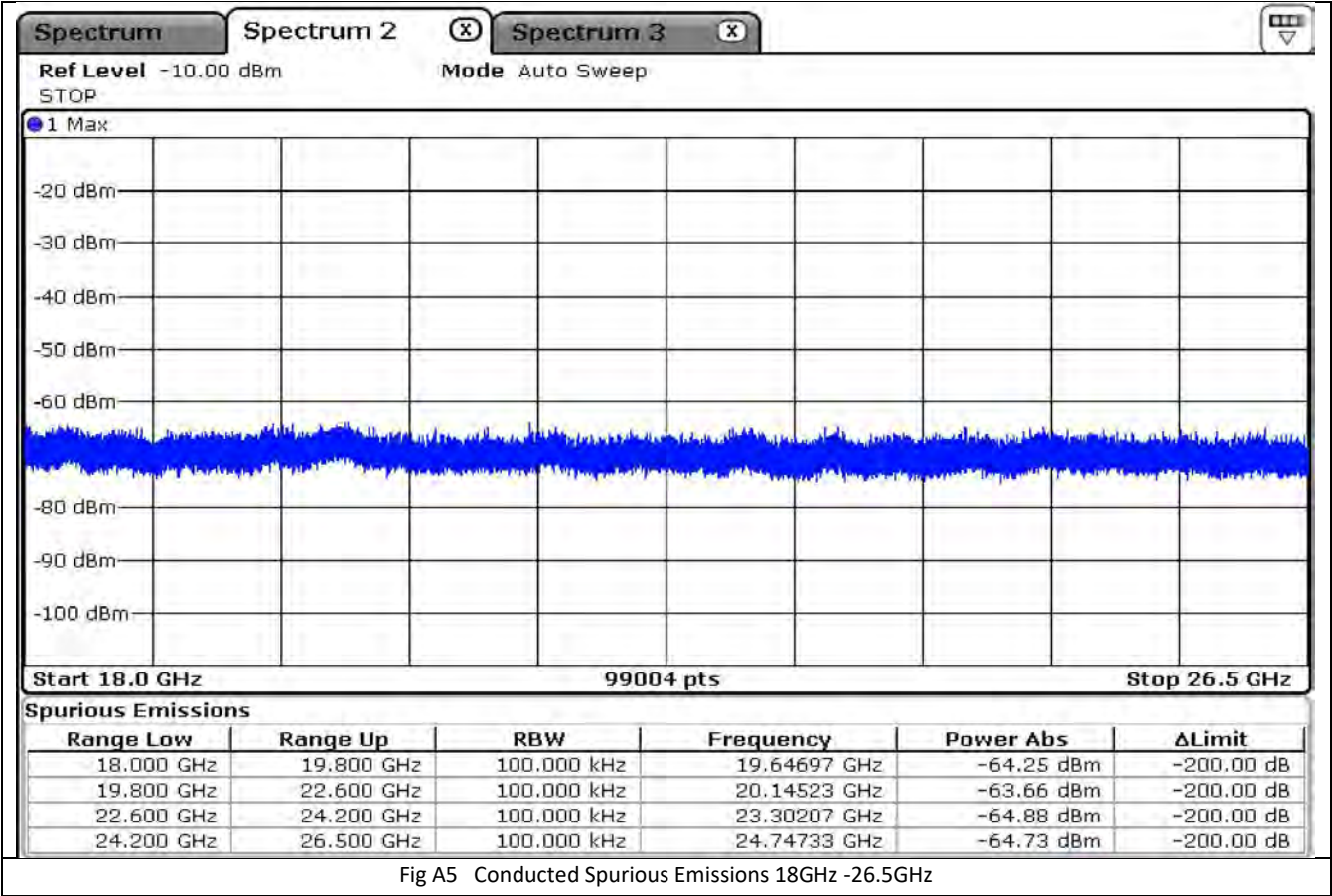
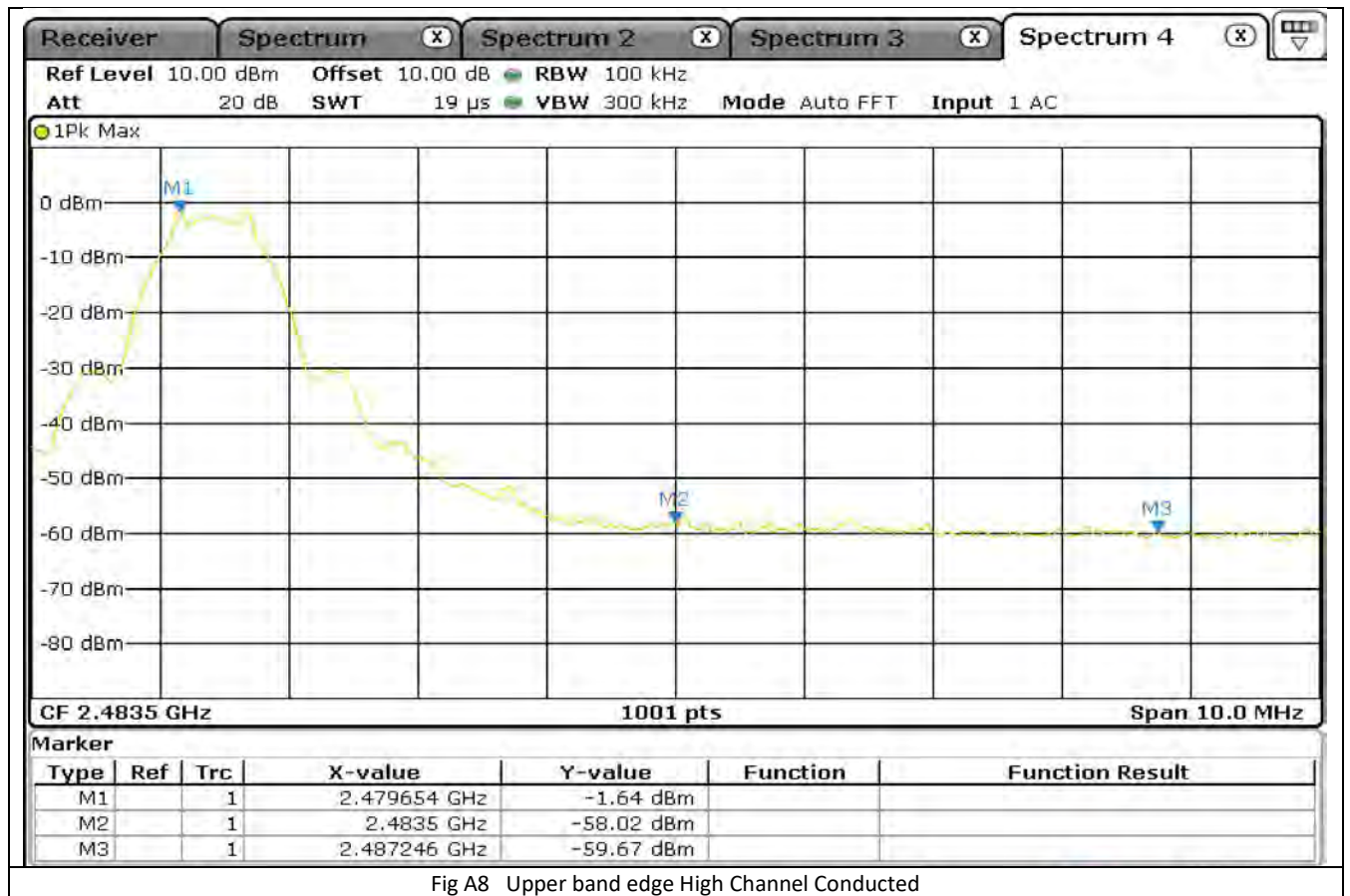
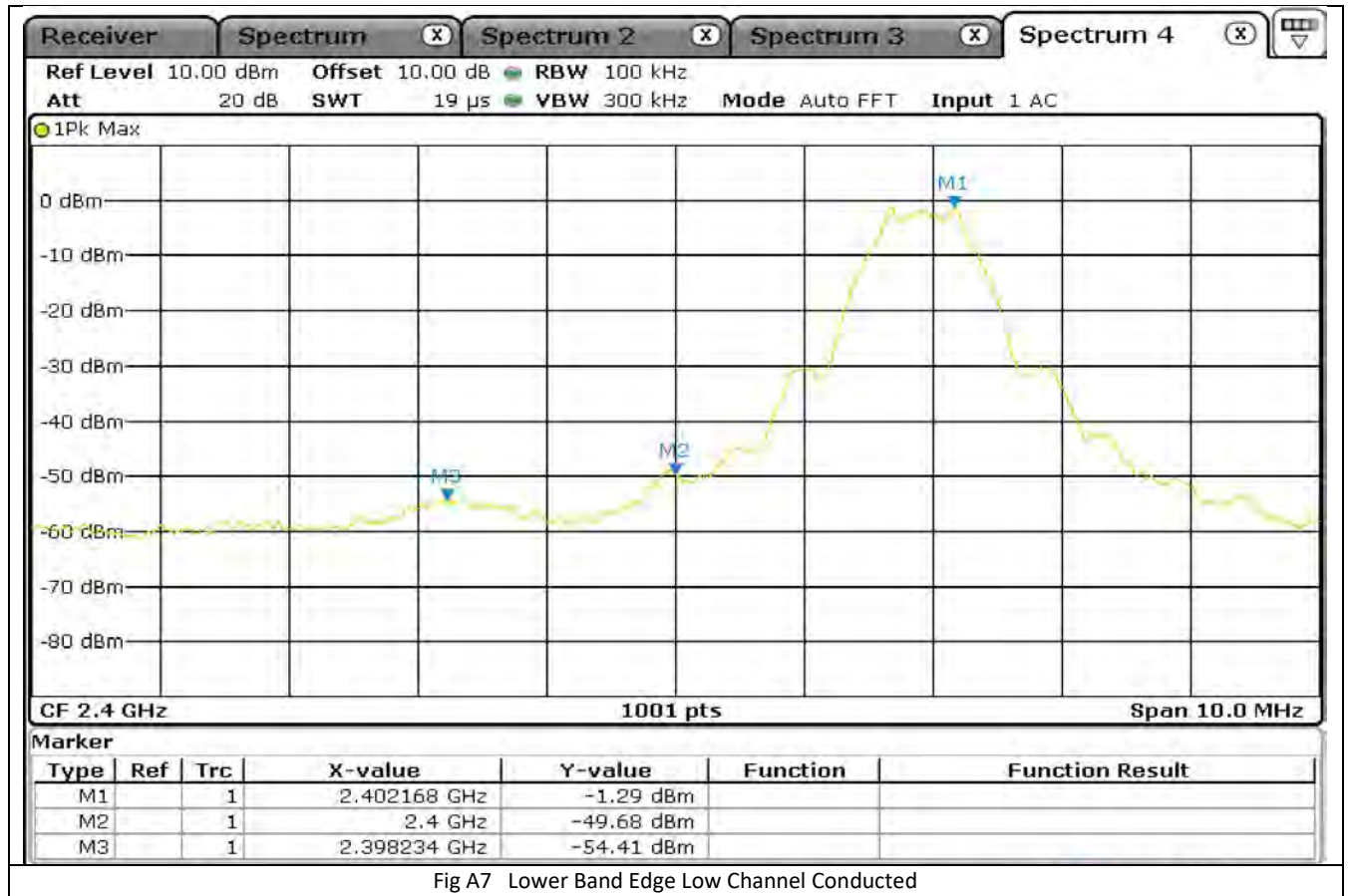


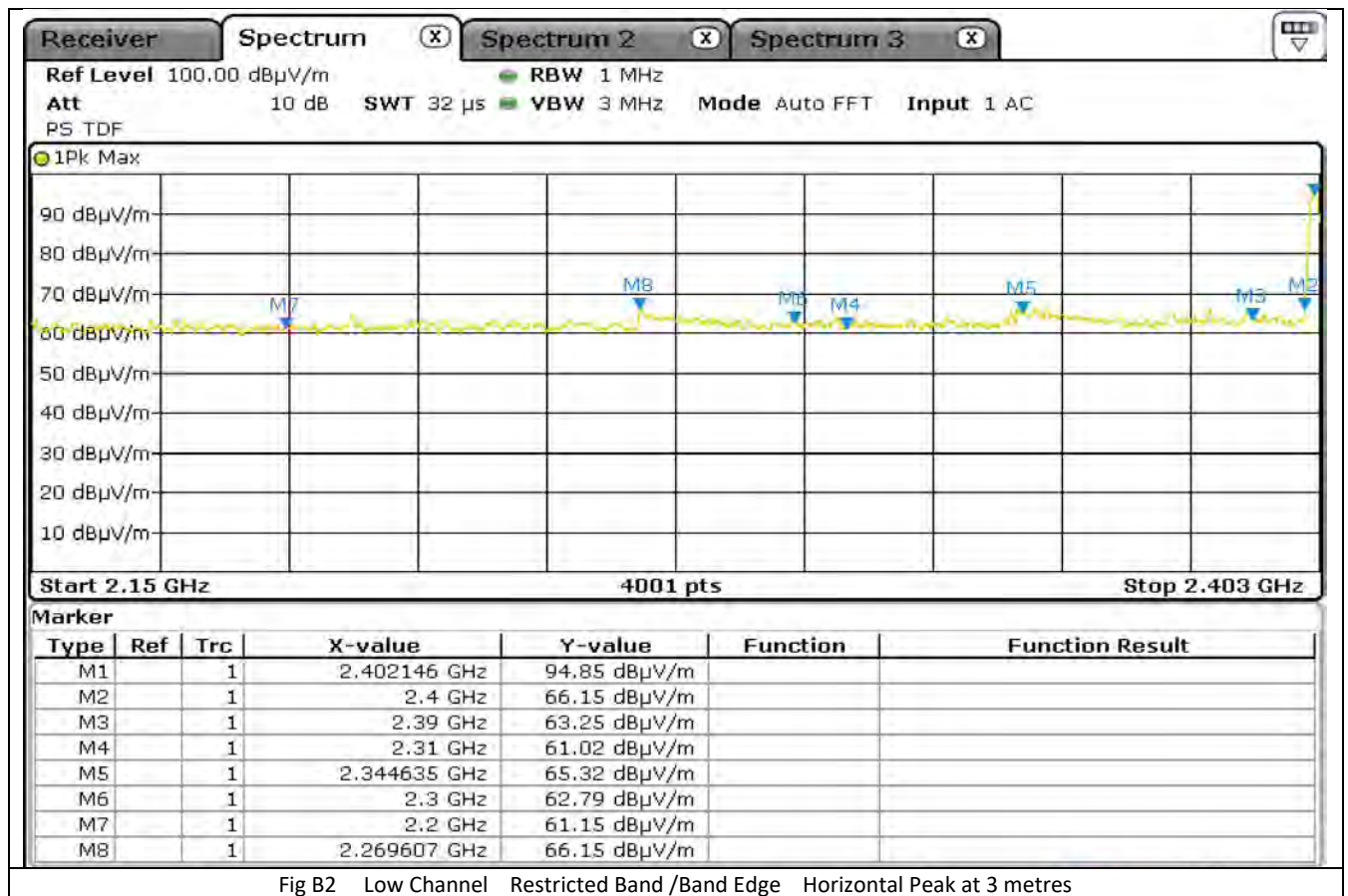
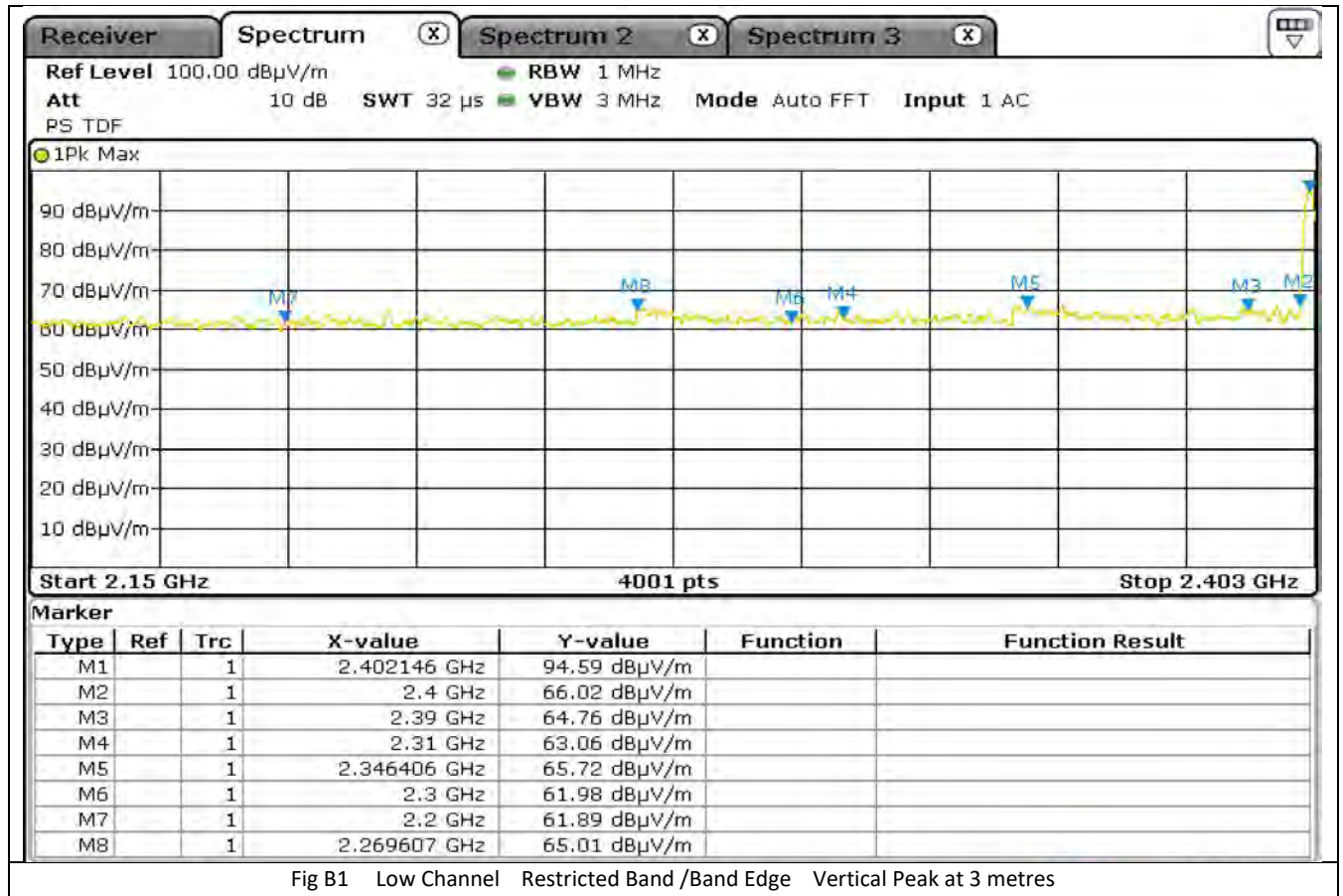
Fig A2 Conducted Spurious Emissions 3.6GHz-8.8GHz







Appendix B Radiated tests for Band Edges /Restricted band



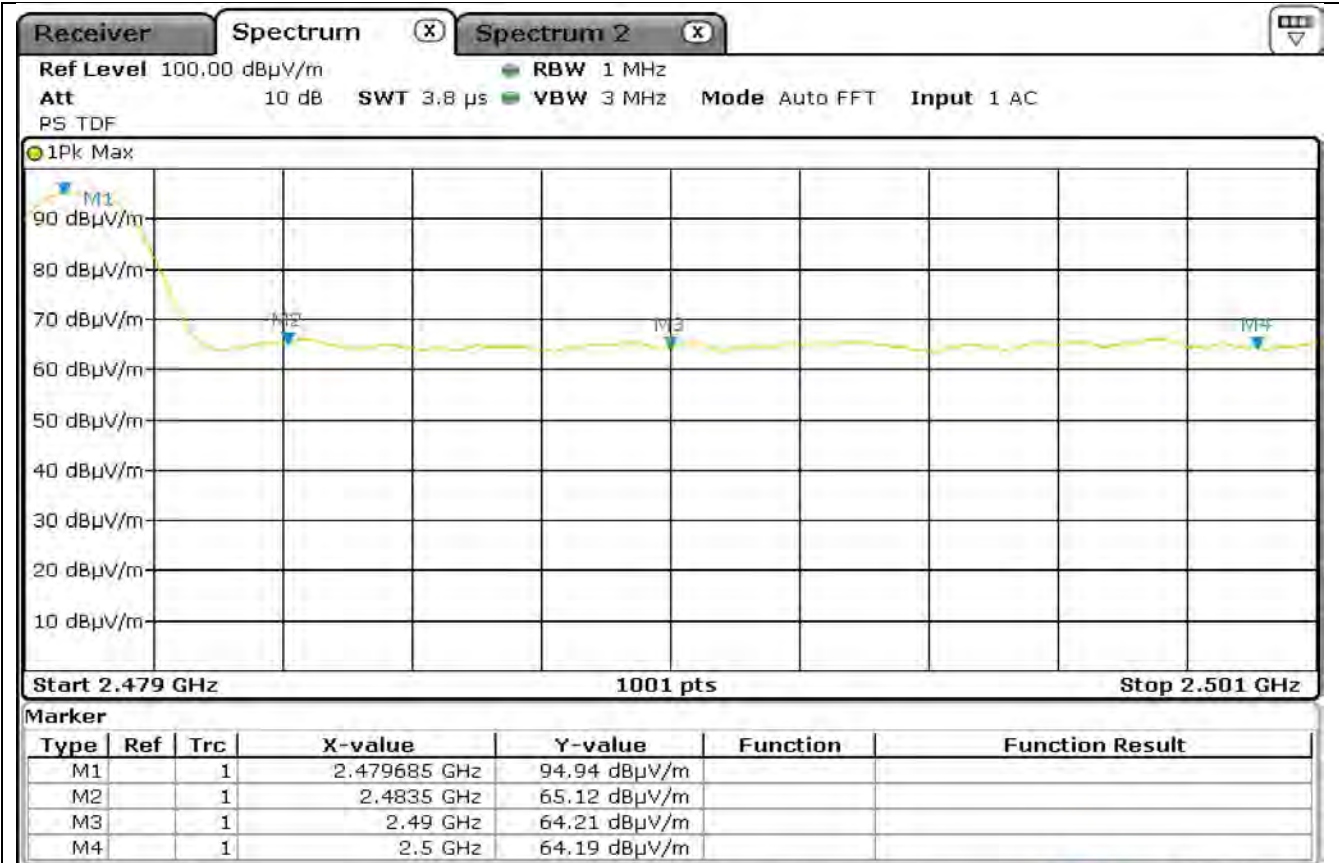


Fig B3 High Channel Restricted Band /Band Edge Vertical Peak at 3 metres

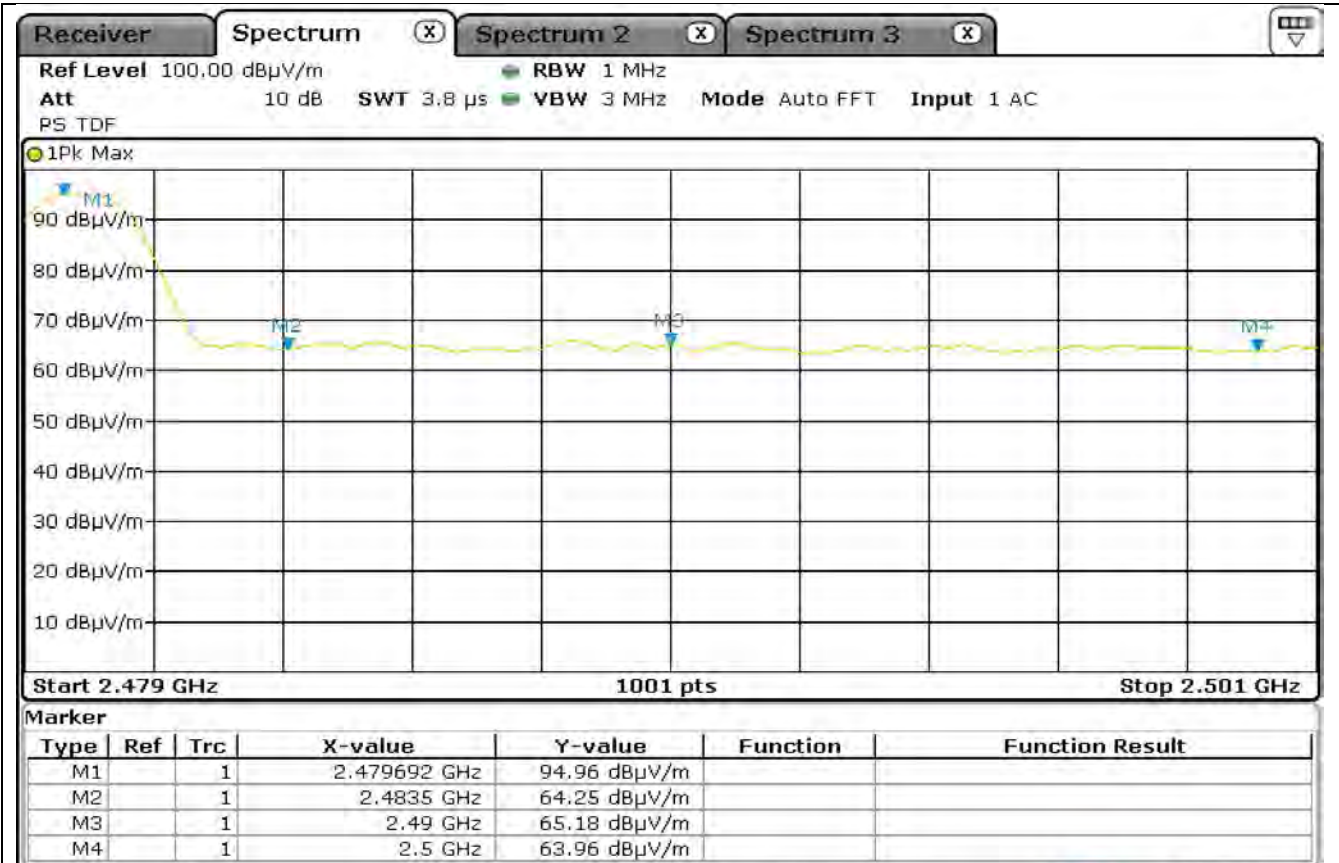
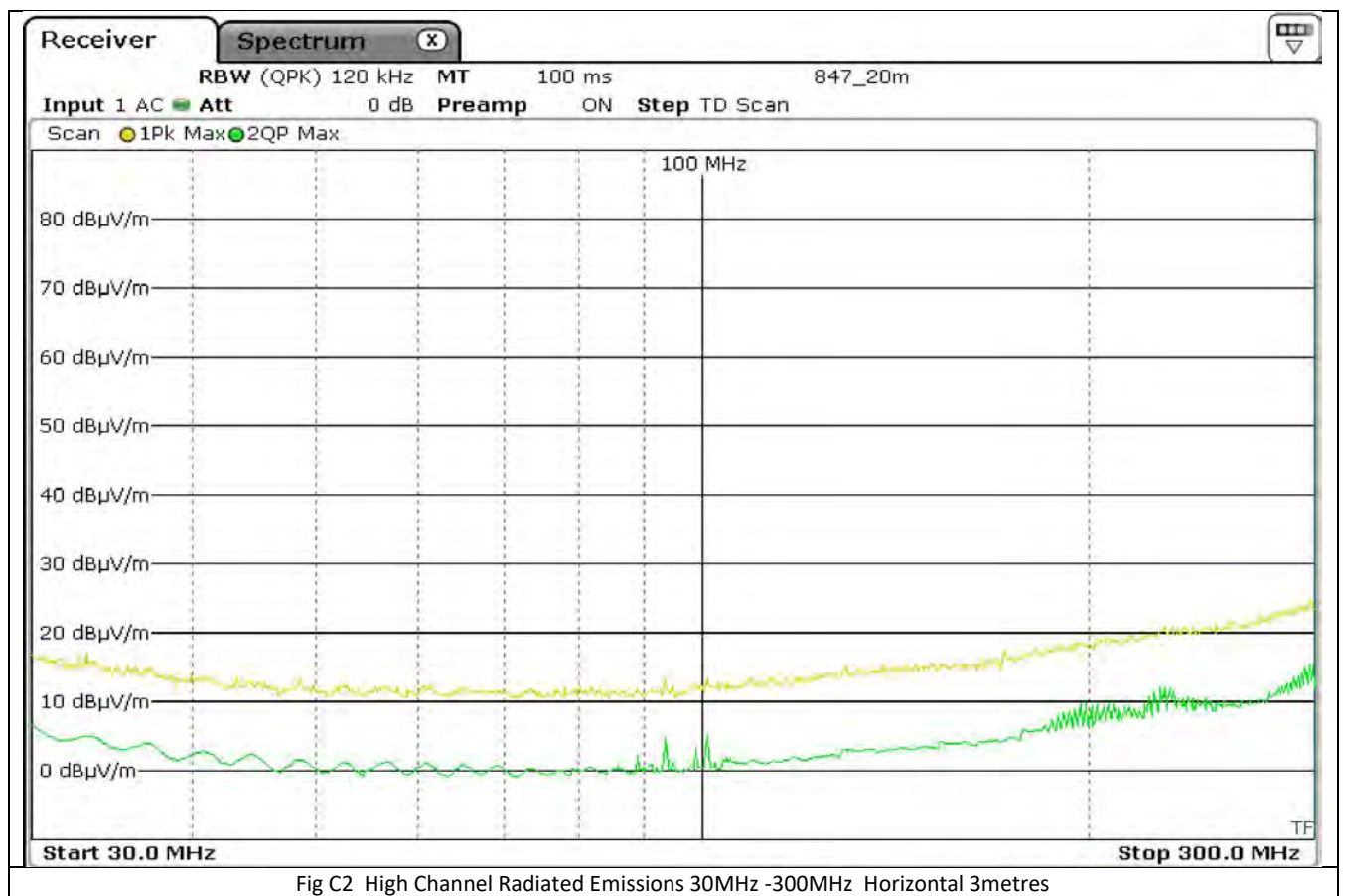
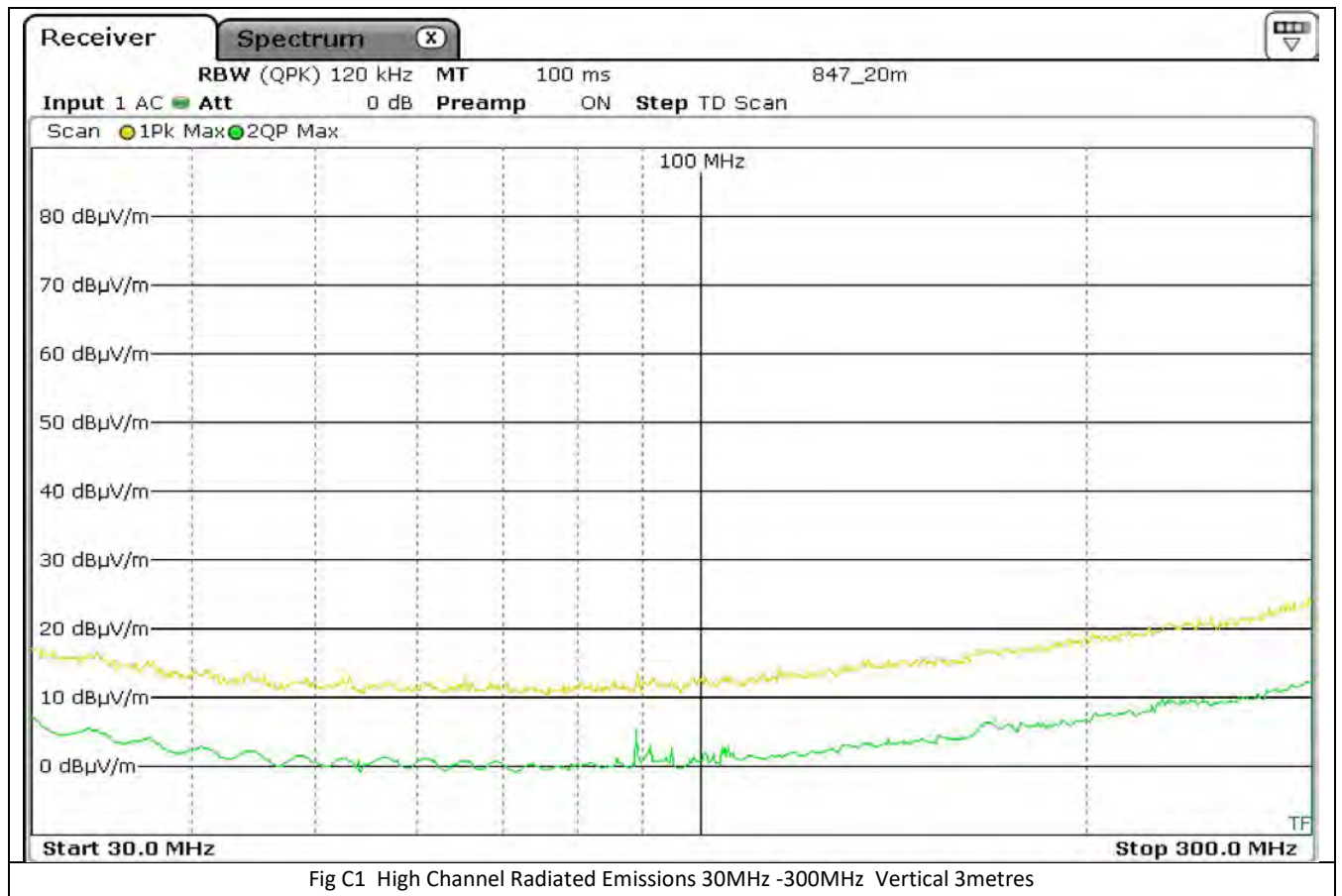
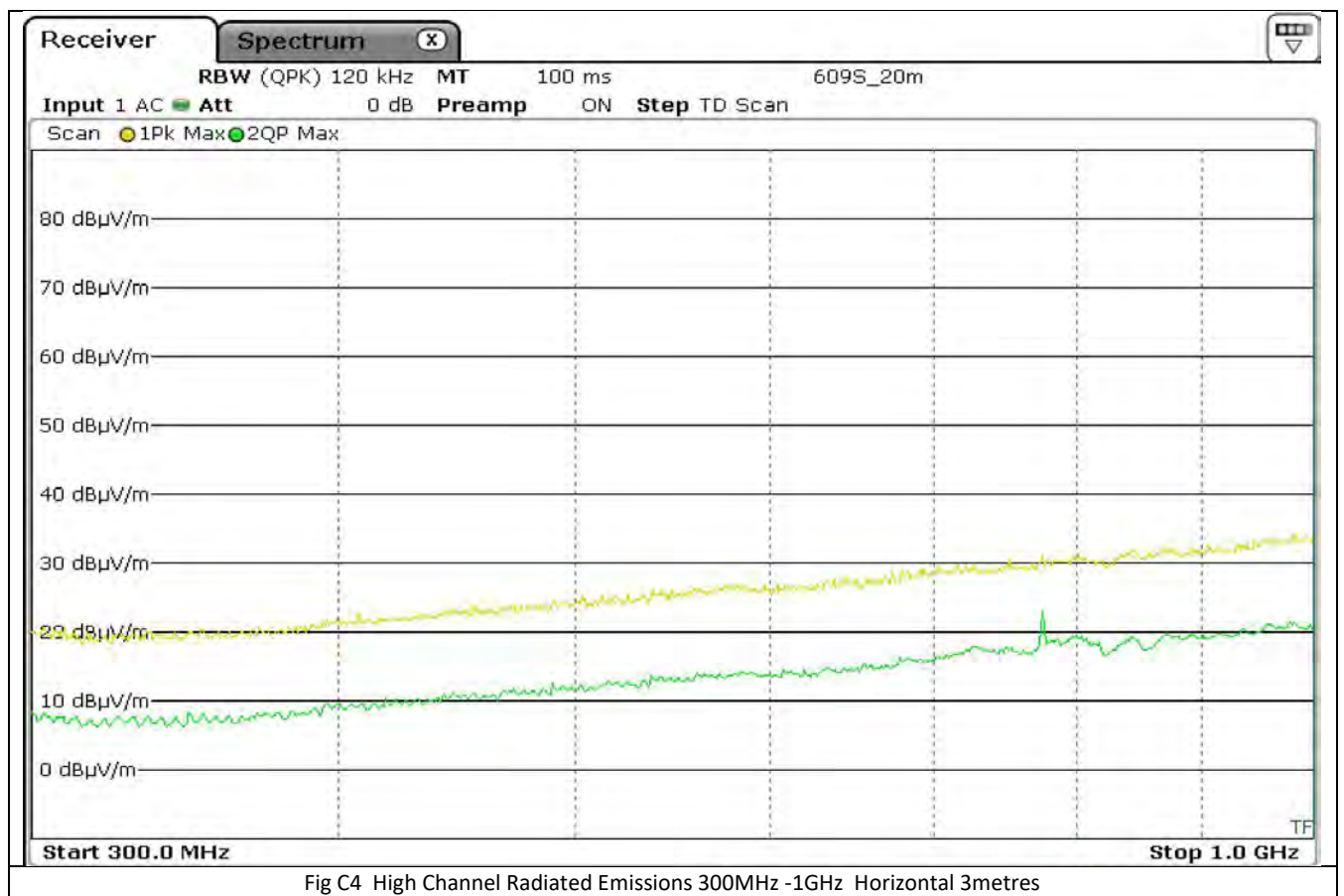
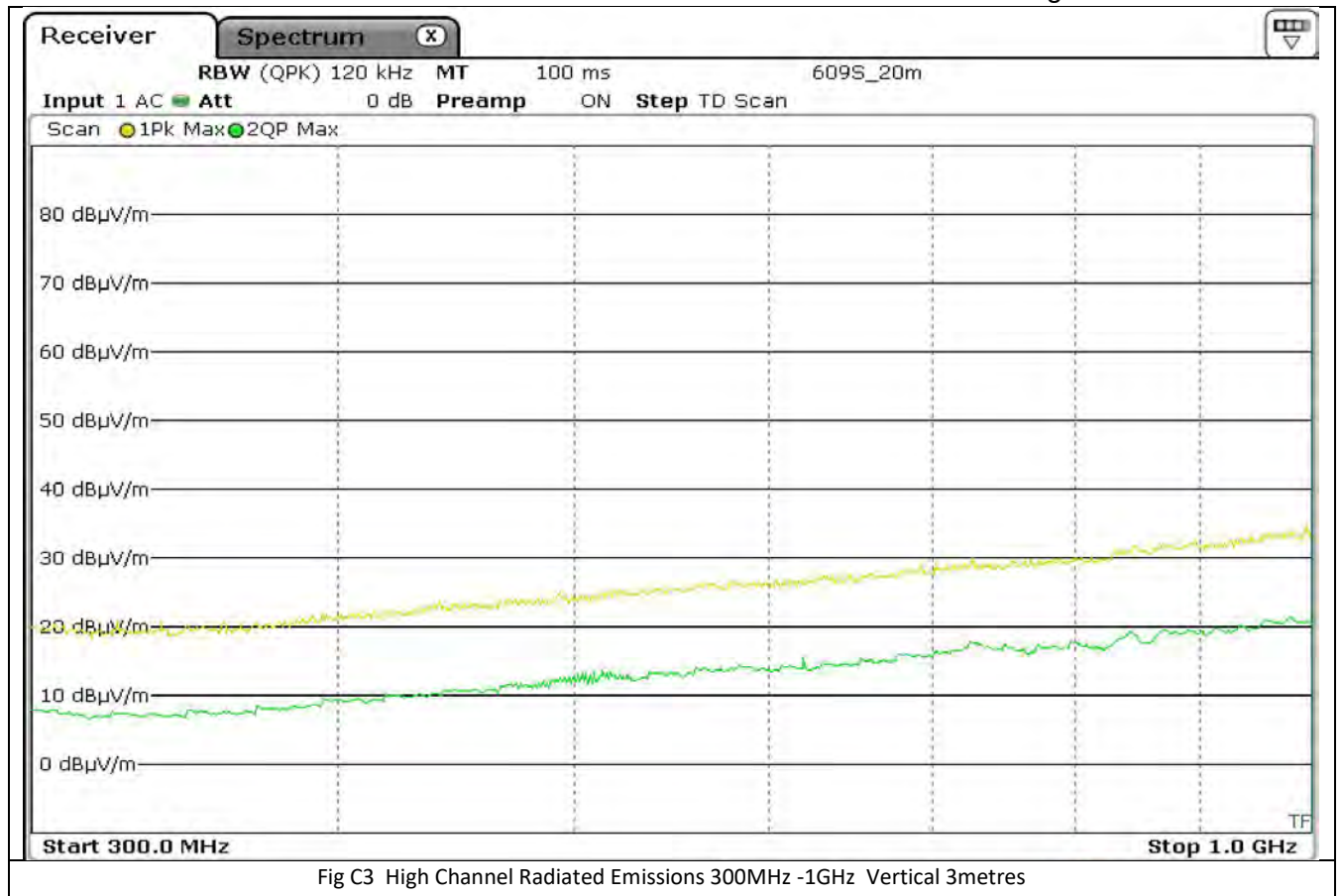
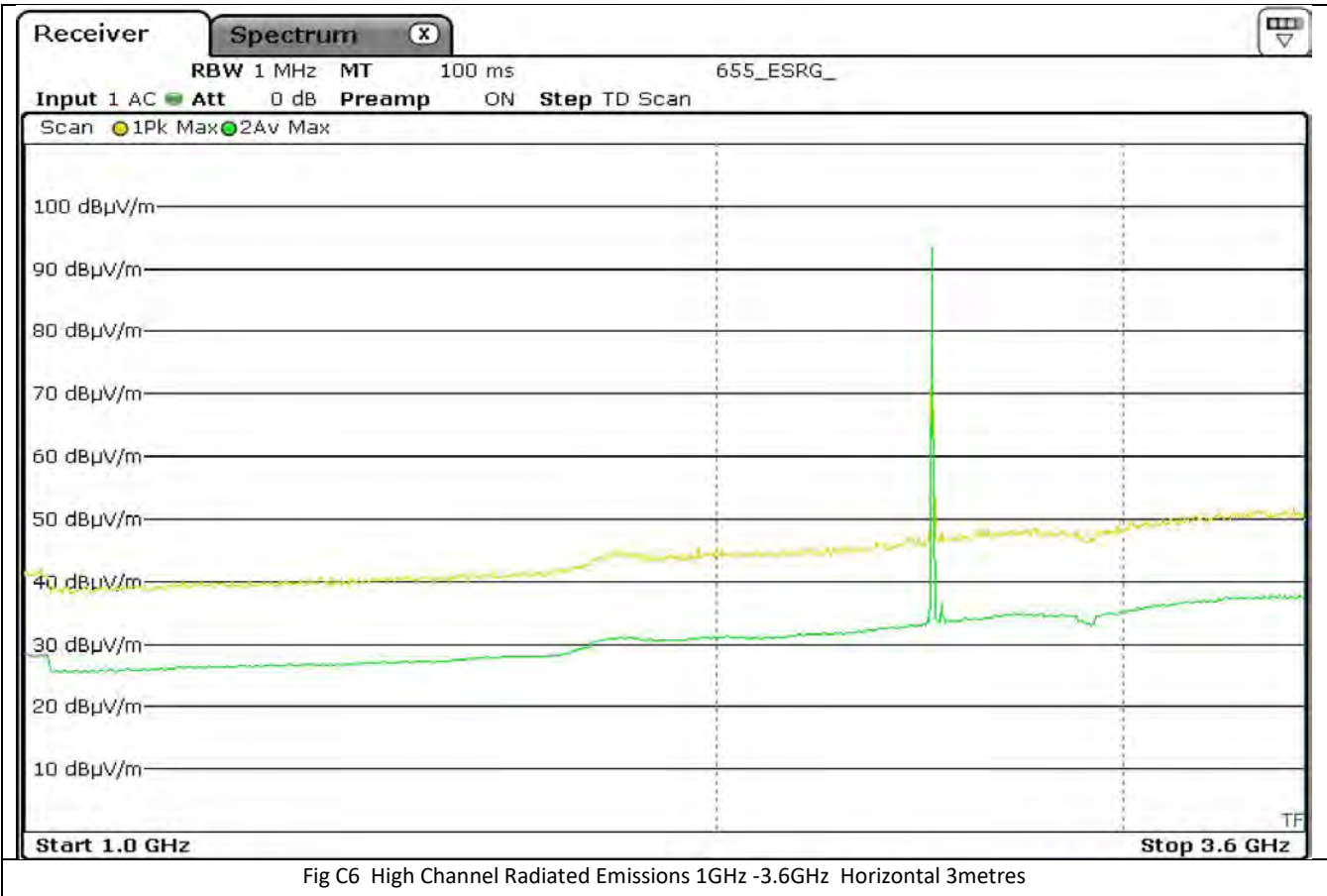
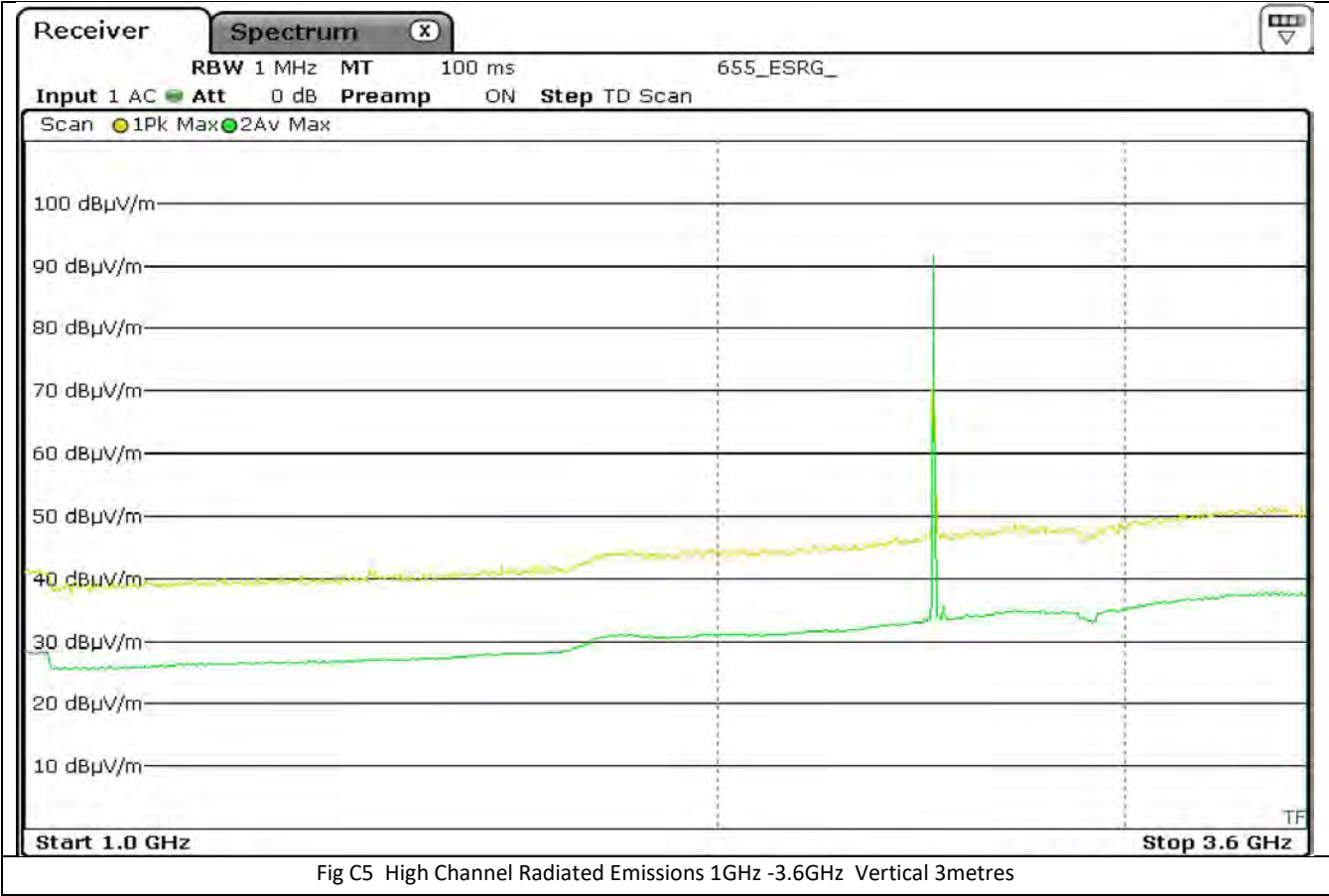


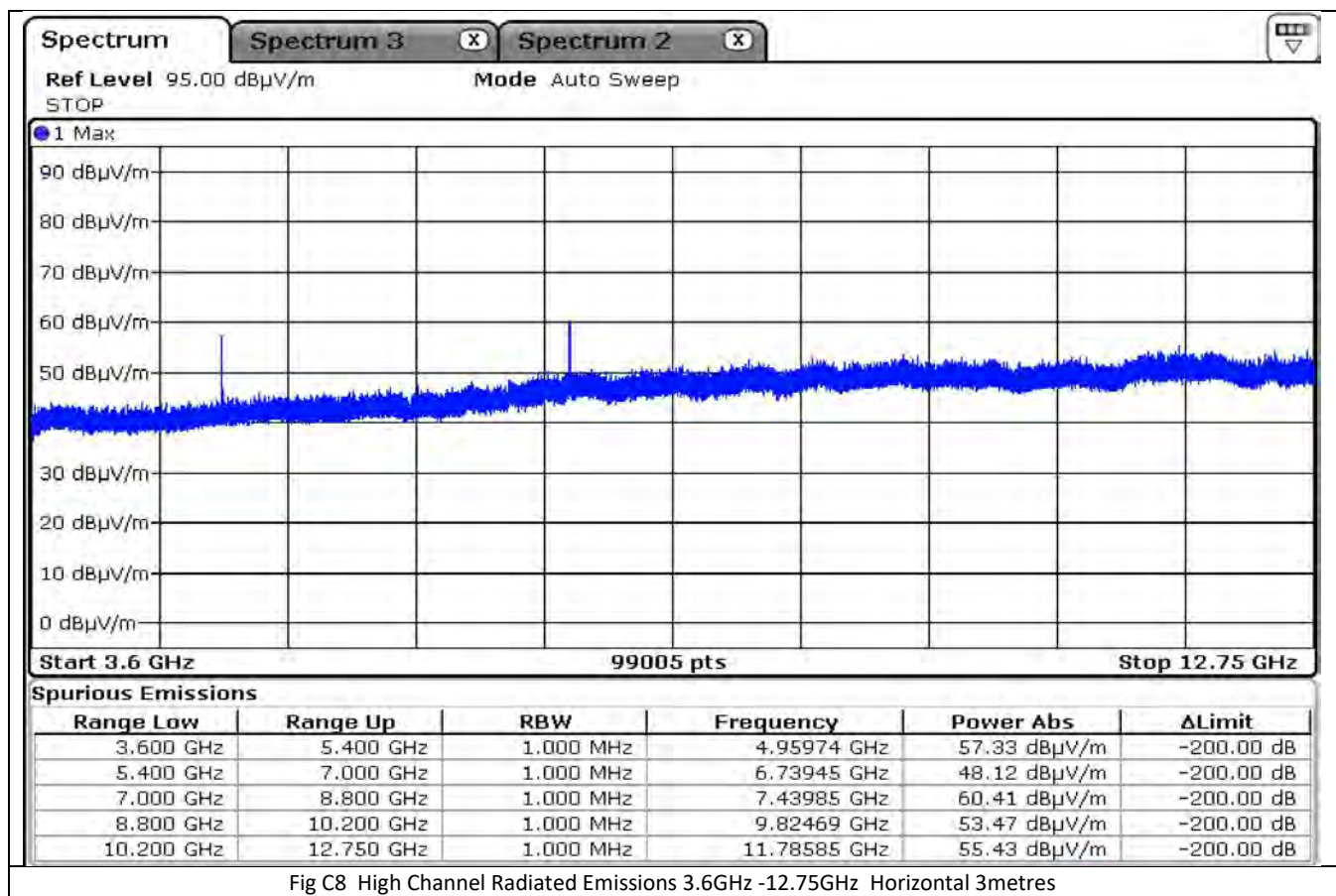
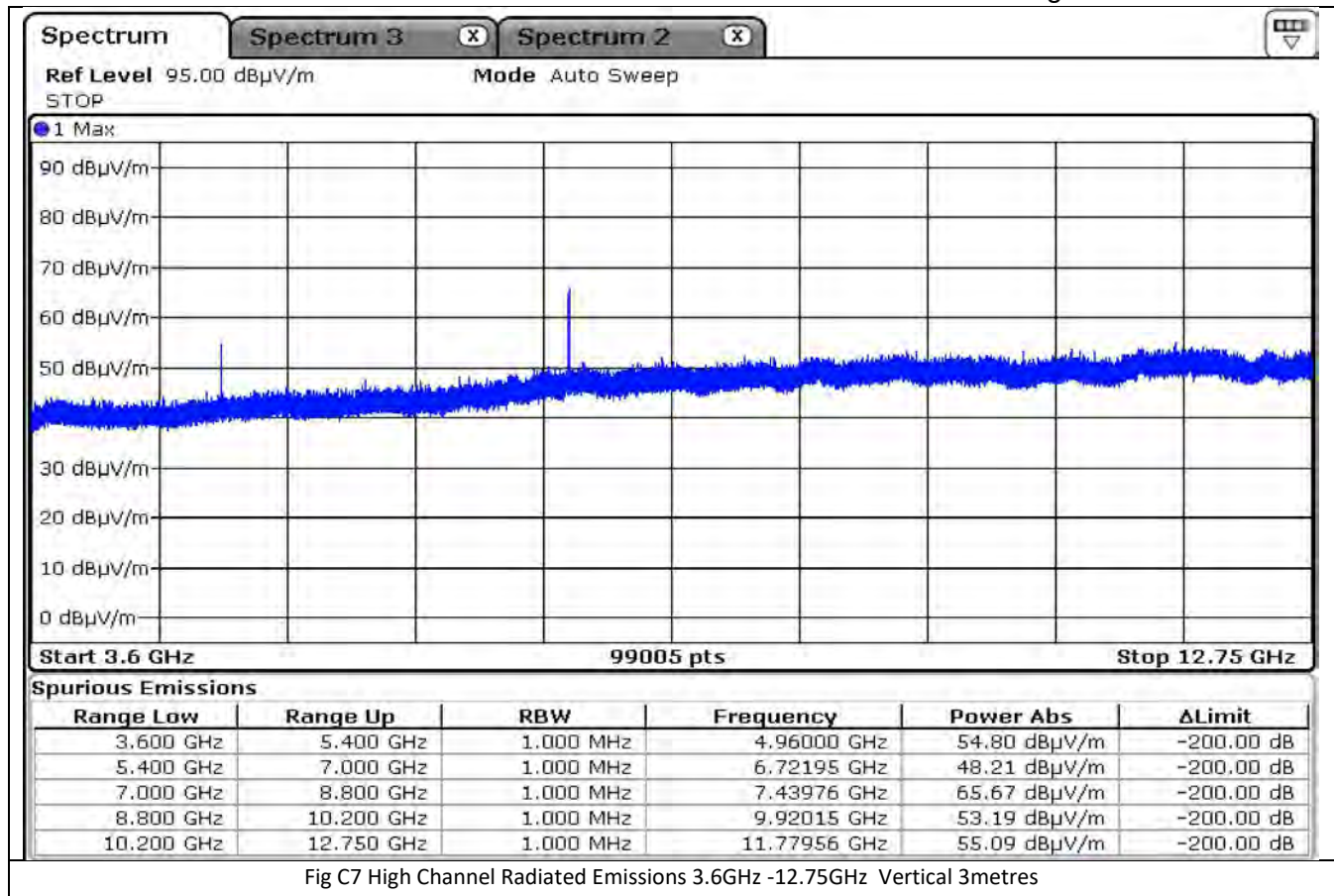
Fig B4 High Channel Restricted Band /Band Edge Vertical Peak at 3 metres

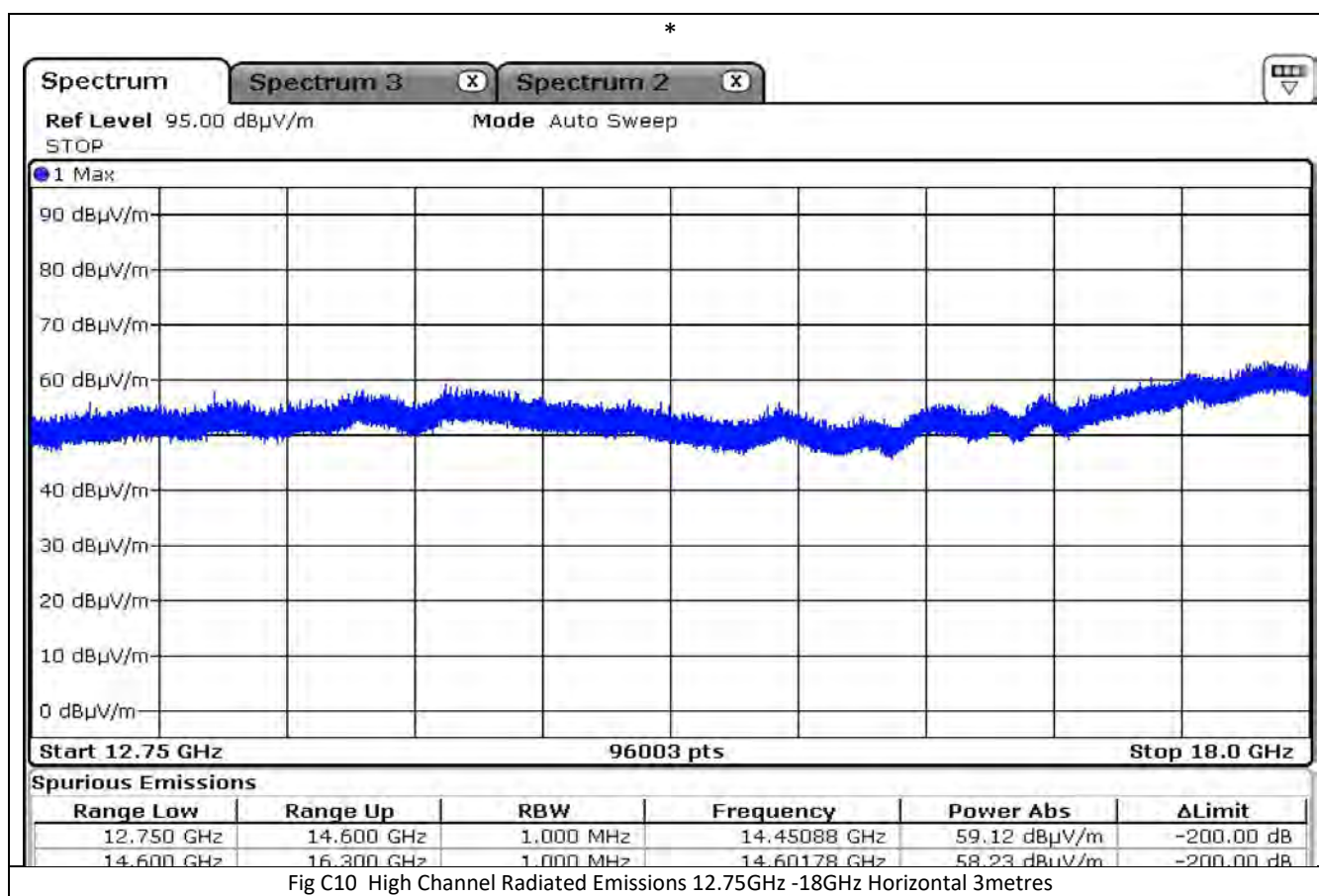
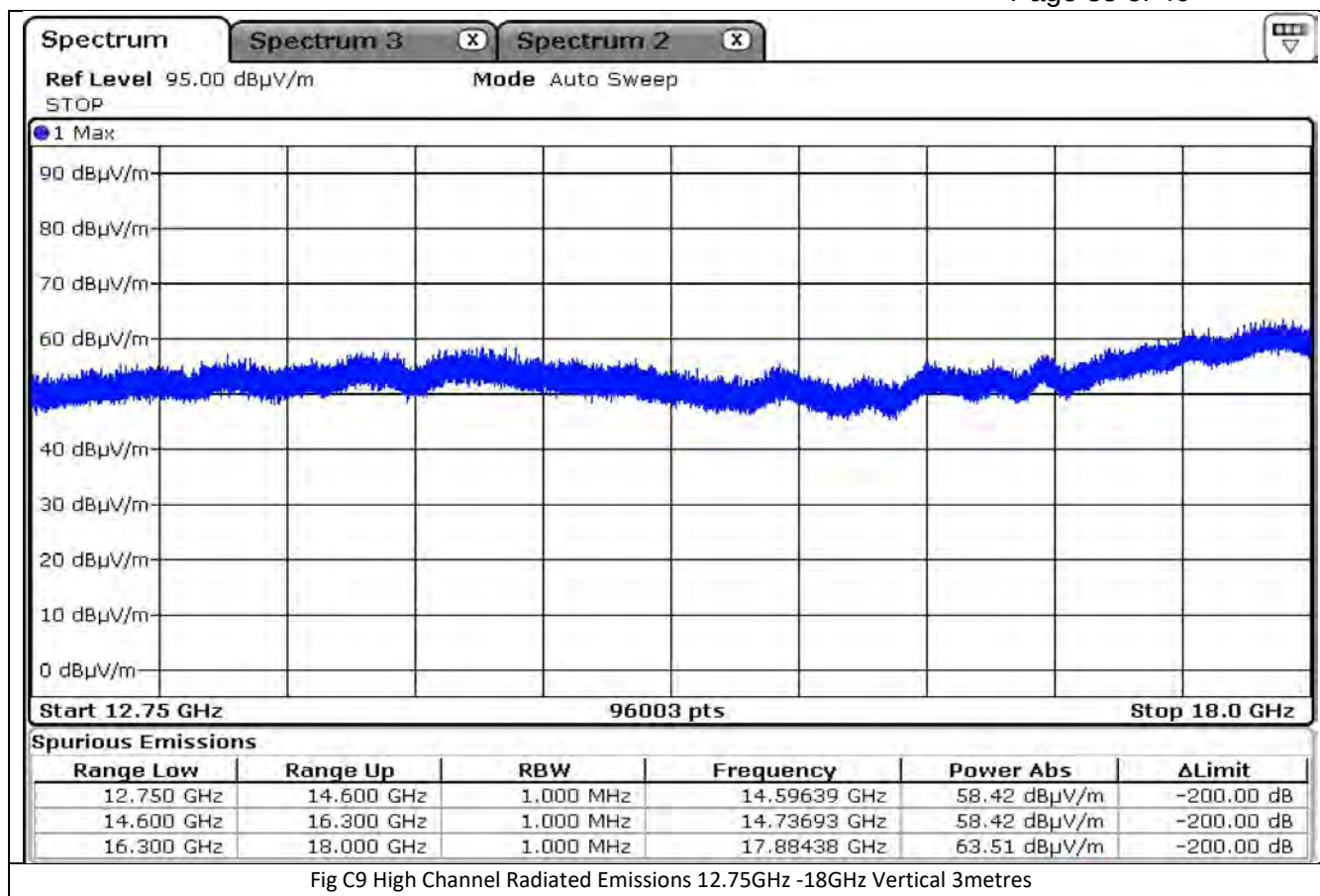
Appendix C Radiated Spurious Emissions

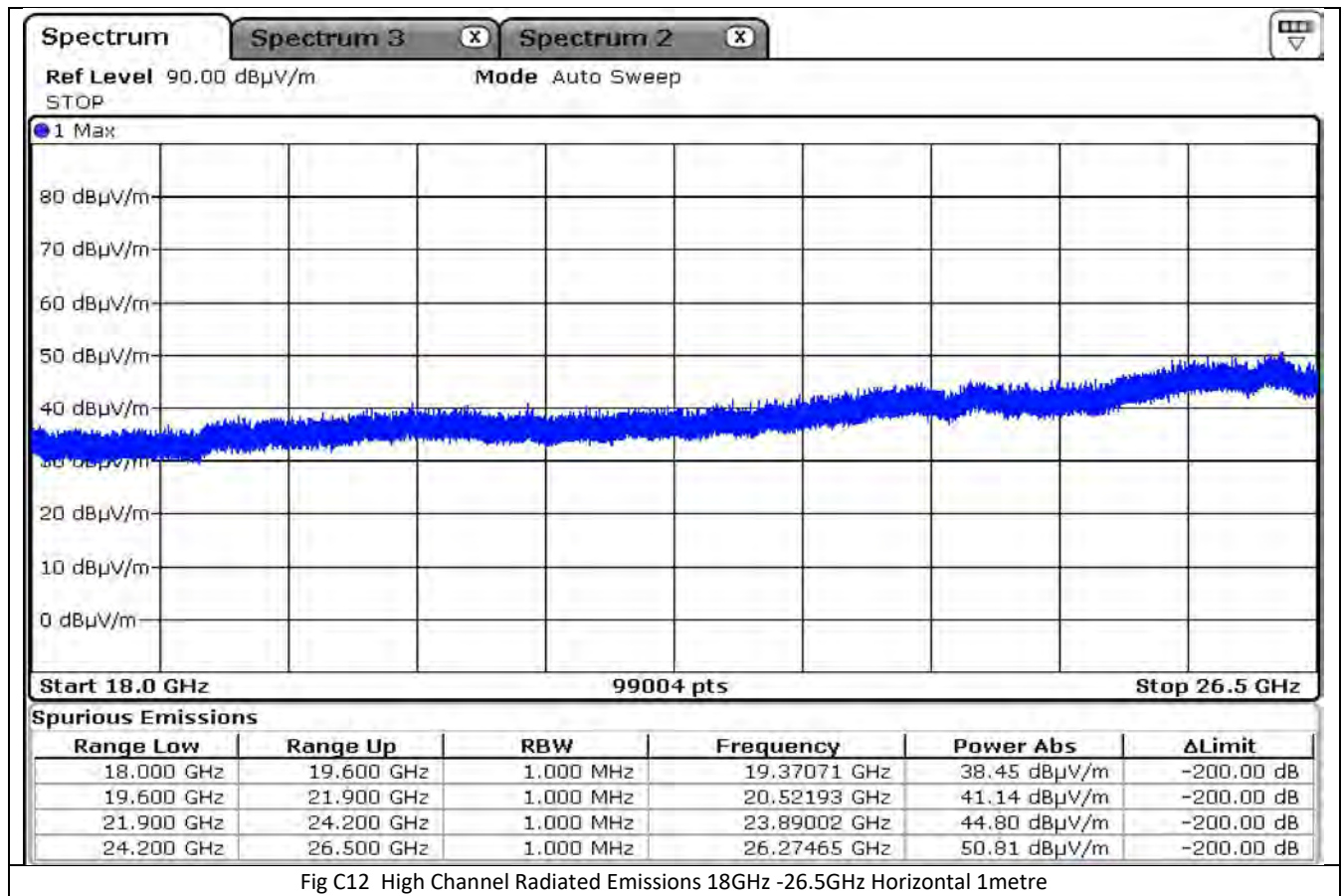
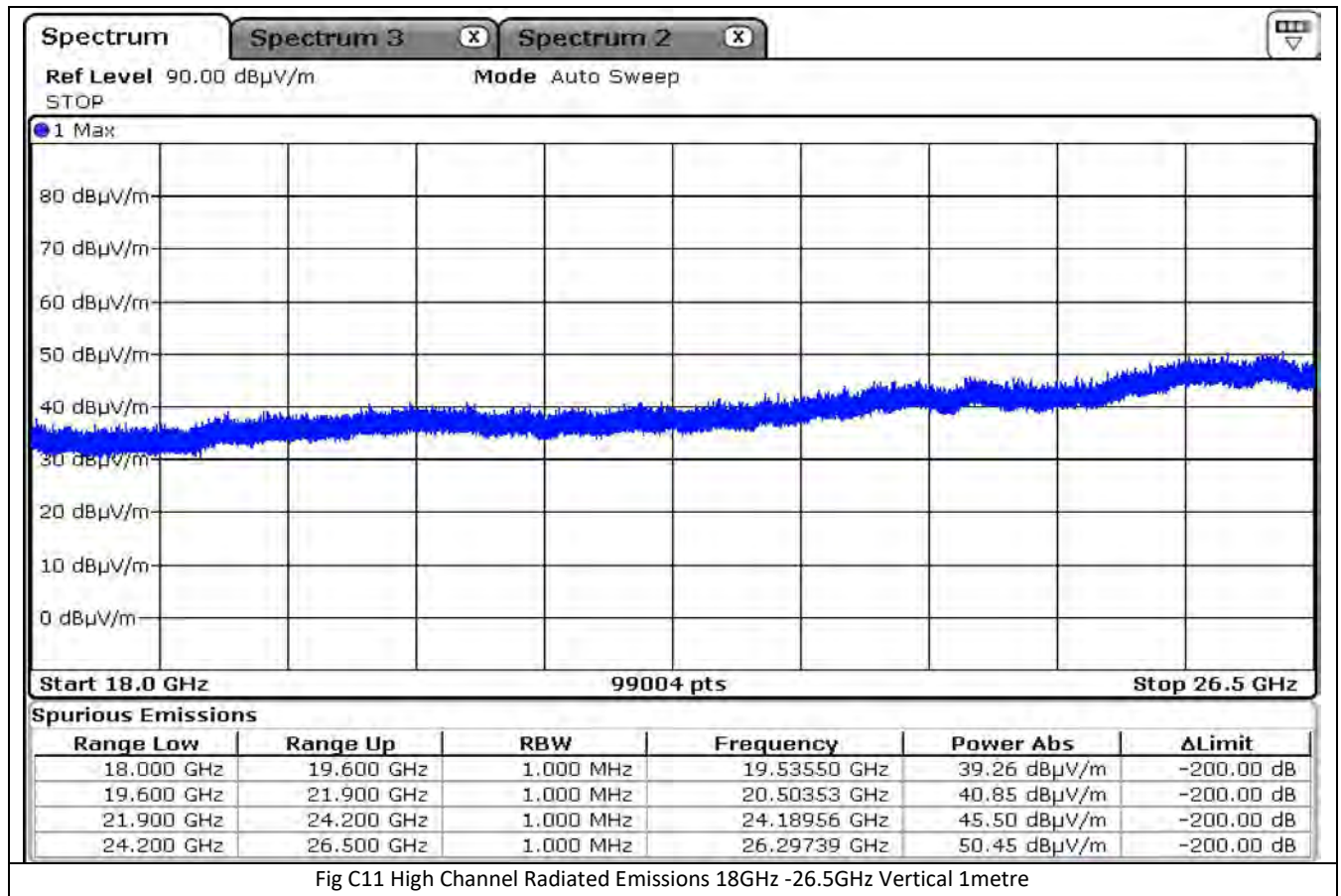


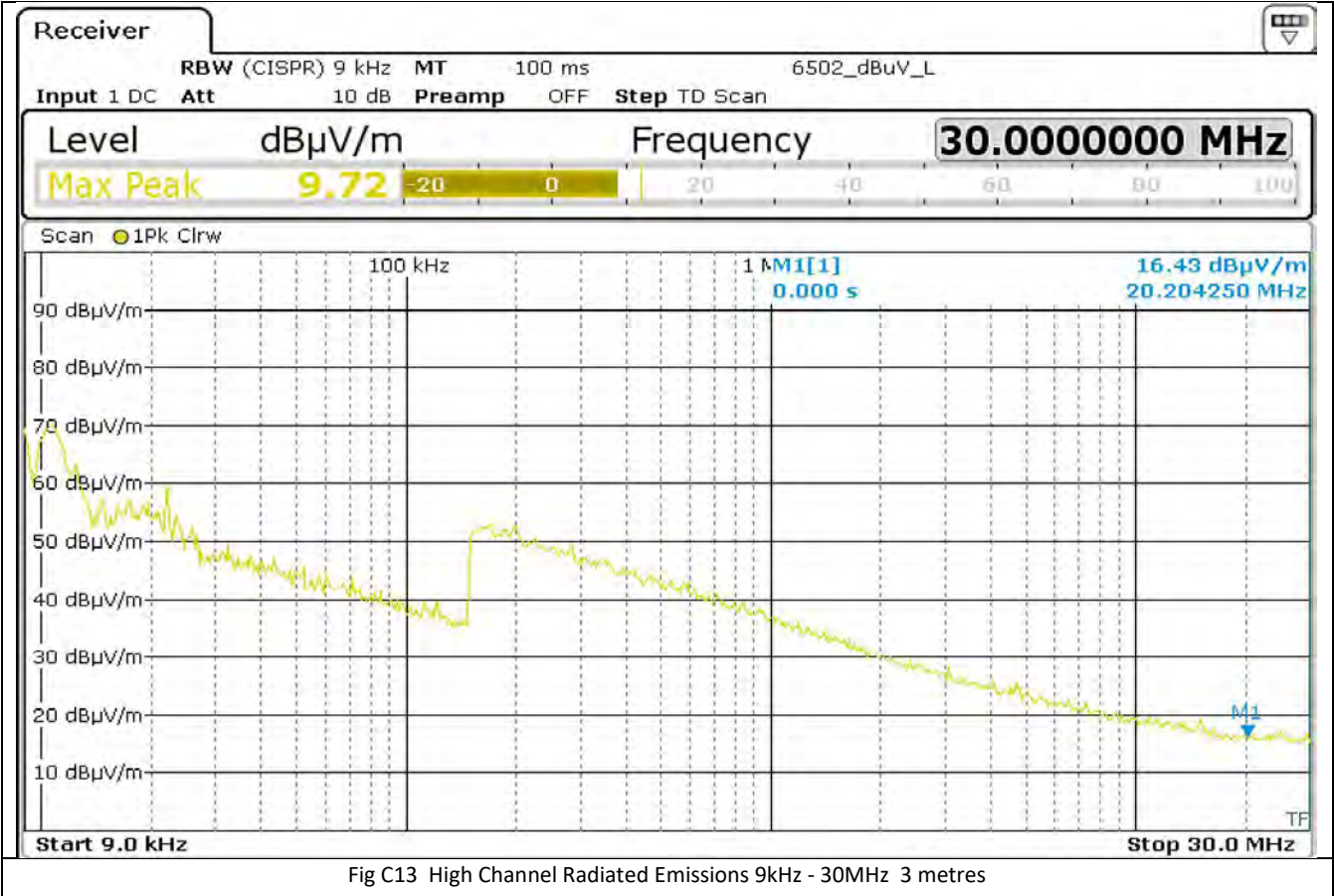












Appendix D EUT Orientations for Radiated Emissions

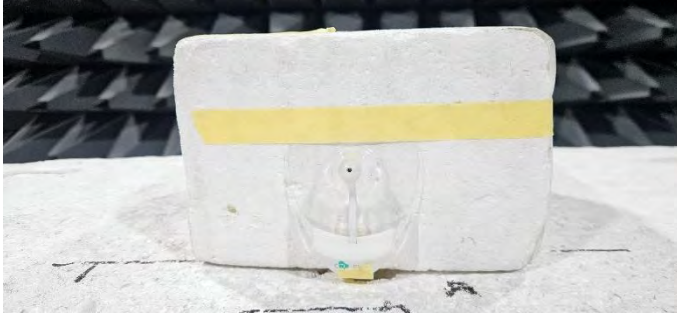


Fig D1: EUT Orientation O1

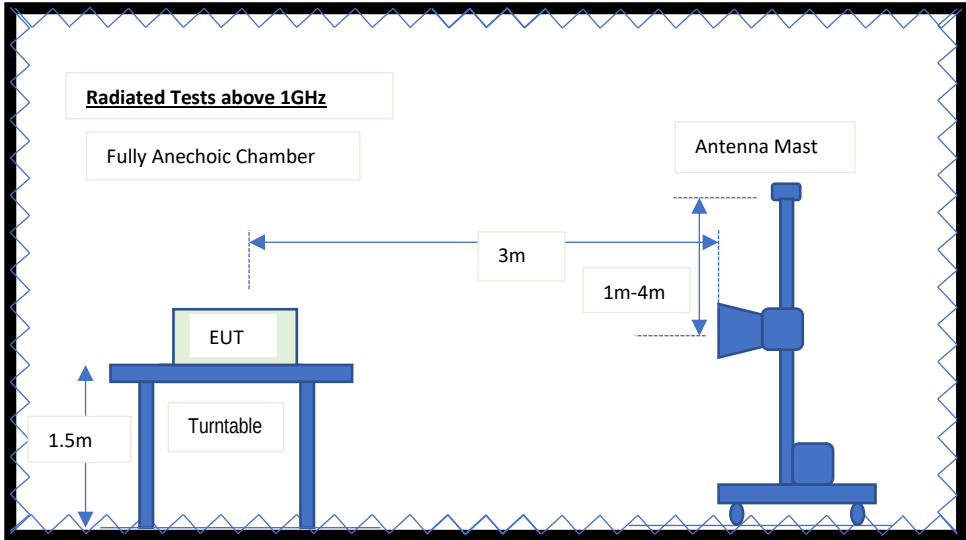
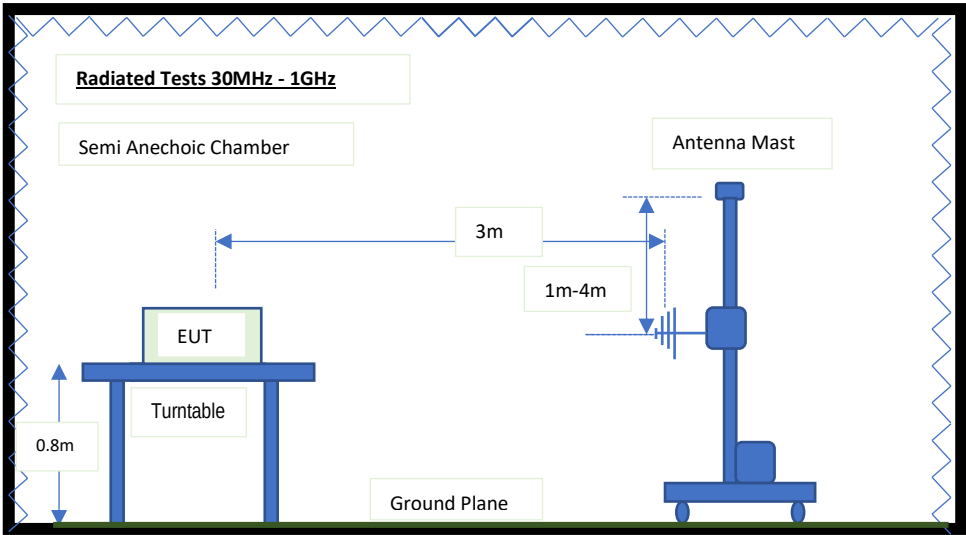
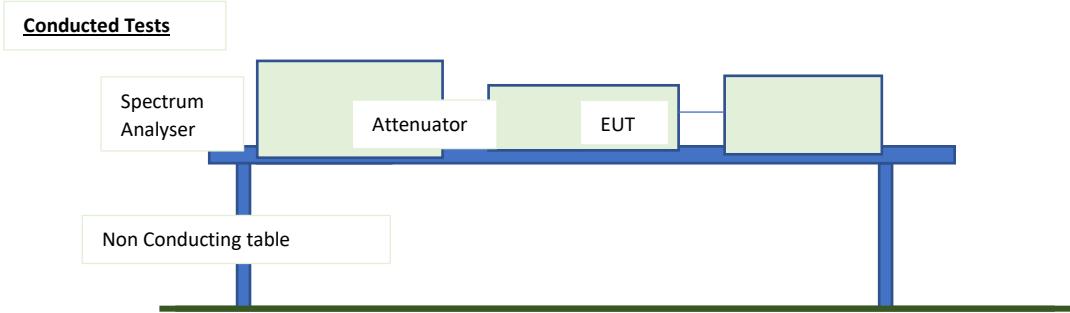


Fig D2: EUT Orientation O2



Fig D3: EUT Orientation O3

Appendix E Block Diagrams of test set up



Appendix F Additional product details

Manufacturer provided details

Product Information	
Description of EUT	Breastfeeding monitor
Operating Frequency Range(s):	2402-2480MHz (BLE)
Rated Transmit Power:	1 dBm
Frequency Stability Info:	Remains within band in accordance with RSS-GEN Issue 5 Section 8.11
Operating Frequencies Tested:	2402-2480MHz (BLE)
Equipment Type:	Stand-Alone Equipment
Type of Wideband System:	BLE
Maximum Duty Cycle:	0.03%
Modulation Type(s):	GFSK
Modulation Detail(s):	GFSK (BLE 1Mbps)
OBW and Emissions Type(s):	1.071MHz 1M07G1D BLE
Channel Bandwidth(s):	NA
Number of TX Chains:	1
Beamforming Type:	NA
Antenna Type(s) and Gain max:	Printed Antenna , +2.1dBi
Antenna Impedance:	50 ohms
Antenna Connection Type:	Integral
Nominal Input Voltage:	Battery 3.6V
Firmware / Software Version(s):	1.7.0, C
Firmware / Software Description:	Production firmware with BLE commands for required test modes
Firmware / Software Setting(s):	BLE Power Setting: +2dBm
Tune-up or Adjustment(s):	NA
FCCID	2BX7G-C01

End of Report