TUV SUD Limited
Digitally signed by TUV SUD Limited
Date: 2024.12.13 11:36:16 Z

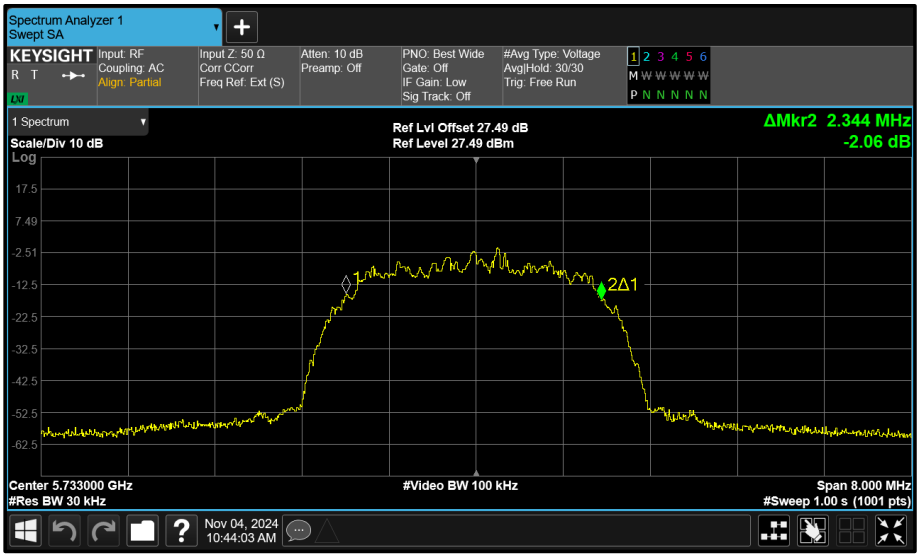

Figure 144 - Core 1 (B) 5733 MHz (CH8) 99% Bandwidth

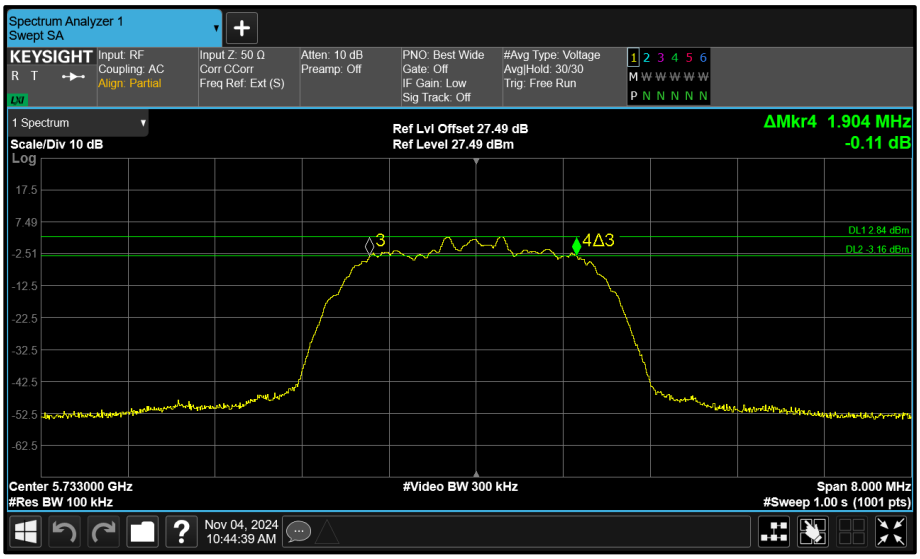

Figure 145 - Core 1 (B) 5733 MHz (CH8) 6 dB Bandwidth

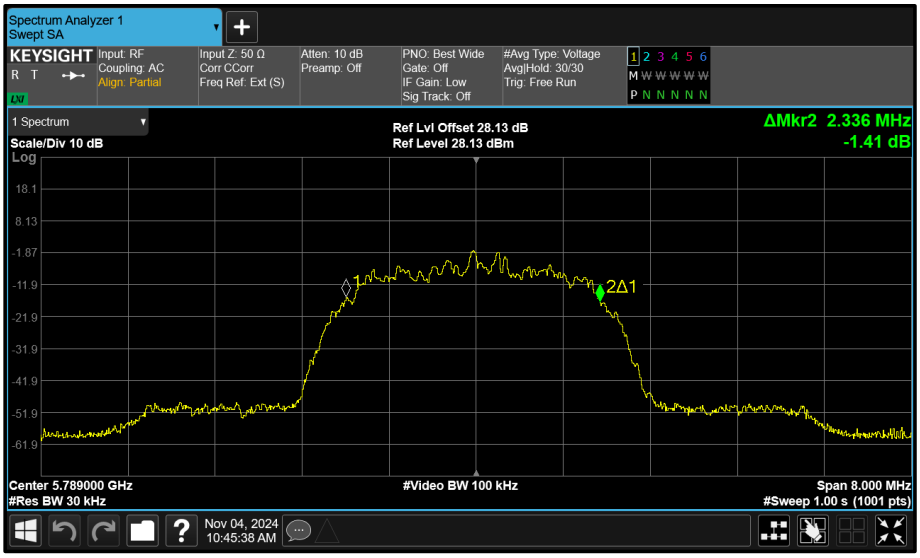

Figure 146 - Core 0 (A) 5789 MHz (CH64) 99% Bandwidth

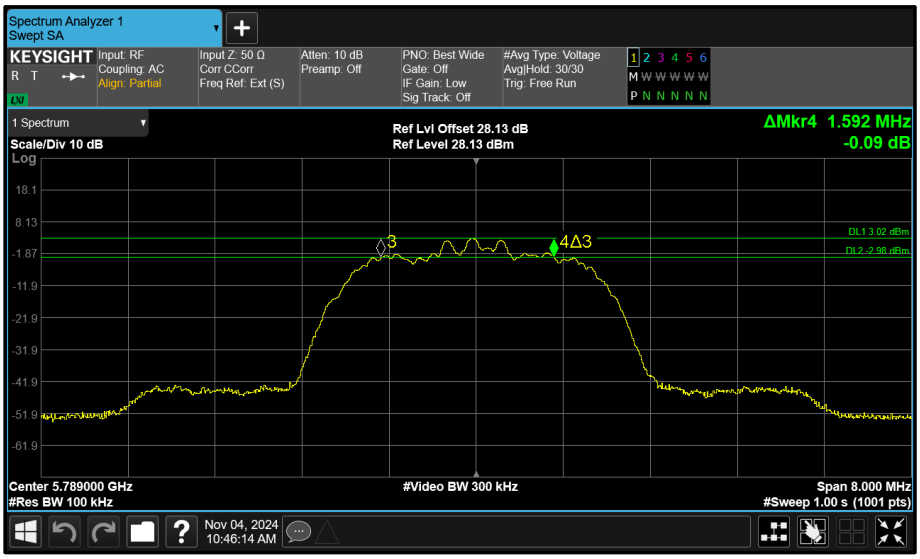

Figure 147 - Core 0 (A) 5789 MHz (CH64) 6 dB Bandwidth

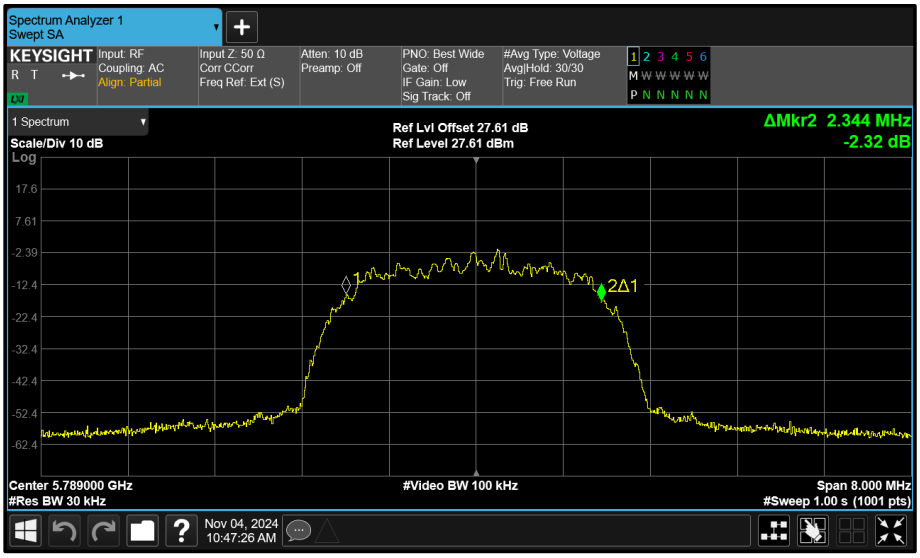

Figure 148 - Core 1 (B) 5789 MHz (CH64) 99% Bandwidth

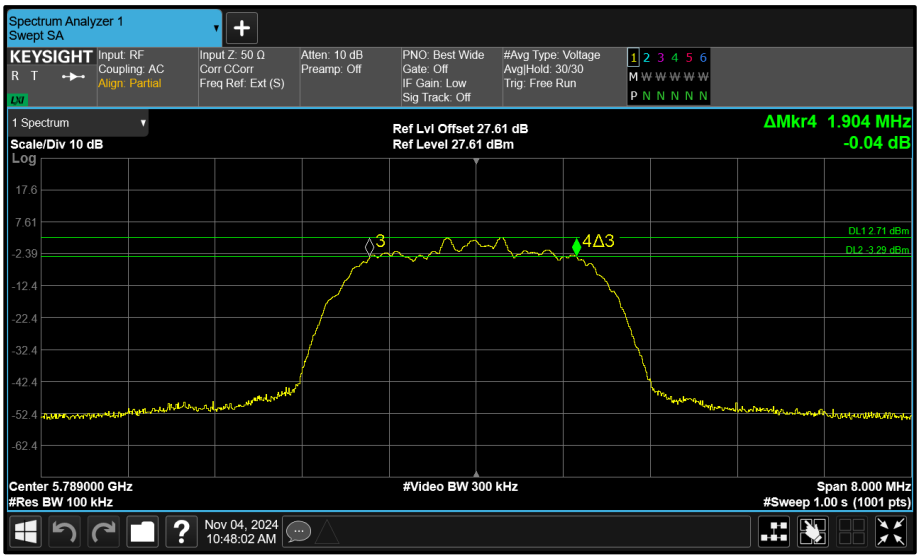

Figure 149 - Core 1 (B) 5789 MHz (CH64) 6 dB Bandwidth

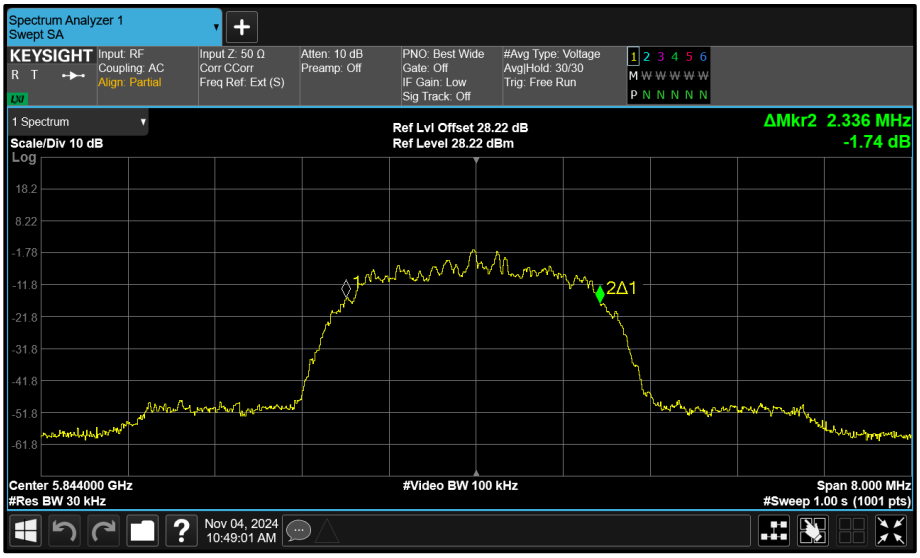

Figure 150 - Core 0 (A) 5844 MHz (CH119) 99% Bandwidth

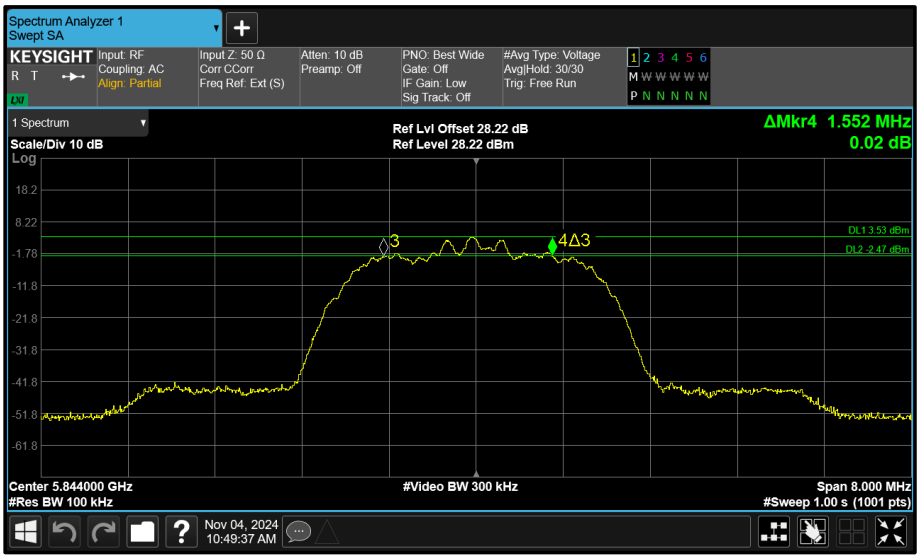

Figure 151 - Core 0 (A) 5844 MHz (CH119) 6 dB Bandwidth

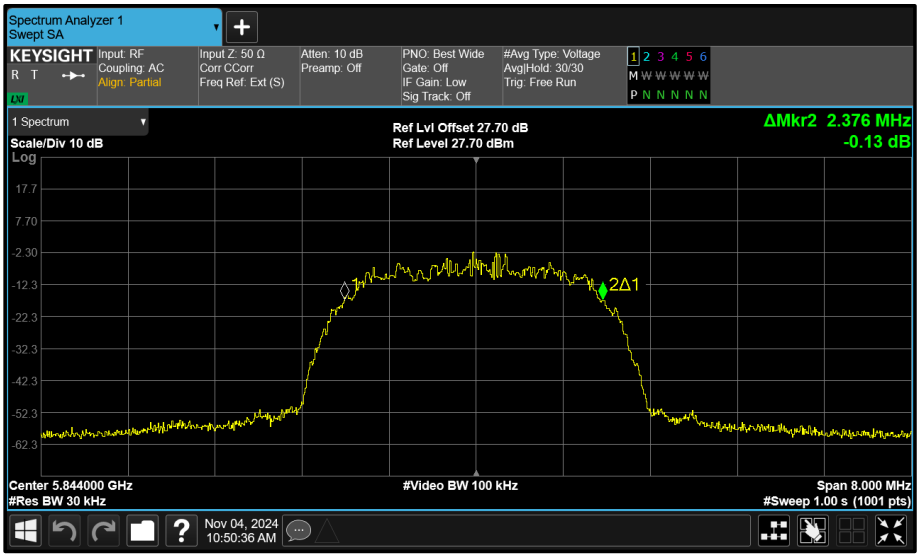

Figure 152 - Core 1 (B) 5844 MHz (CH119) 99% Bandwidth

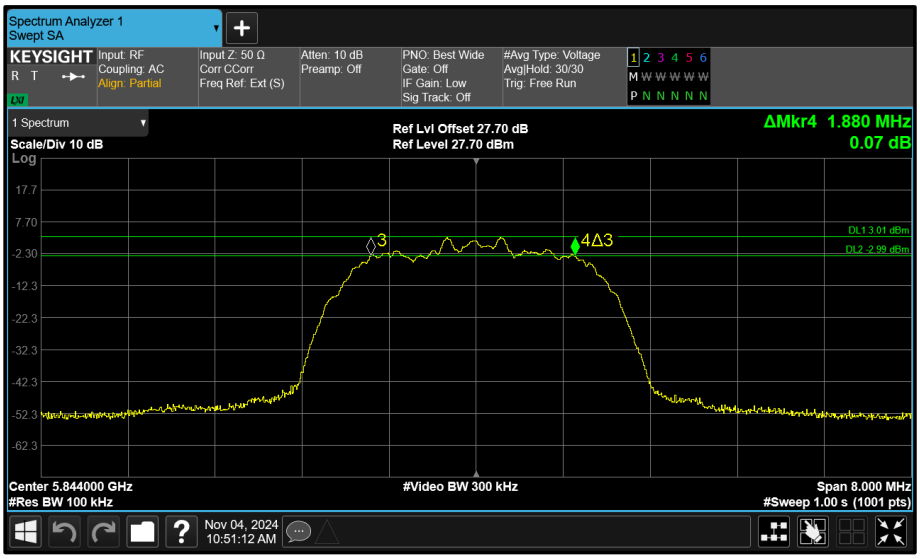

Figure 153 - Core 1 (B) 5844 MHz (CH119) 6 dB Bandwidth

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407(e) RSS-247 6.2.4.1	Test Method(s):	C63.10 6.9.3 789033 D02 v02r01 II.C.2.
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	-
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	-

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5733	1.020	1.020	-	-	≥500.0
5789	0.660	1.020	-	-	≥500.0
5844	0.660	1.020	-	-	≥500.0

Table 54 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
5733	4.635	4.650	-	-	-
5789	4.635	4.650	-	-	-
5844	4.635	4.635	-	-	-

Table 55 - 99% Bandwidth Results

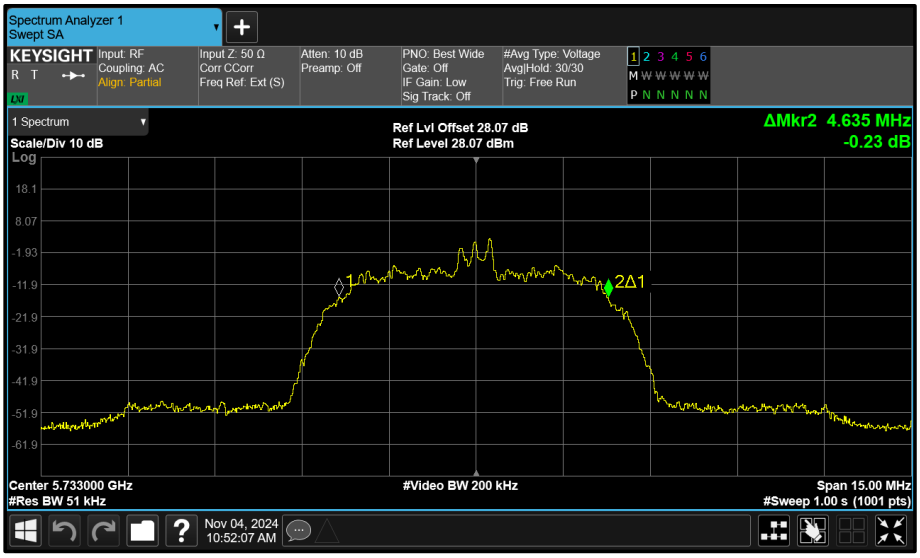

Figure 154 - Core 0 (A) 5733 MHz (CH8) 99% Bandwidth

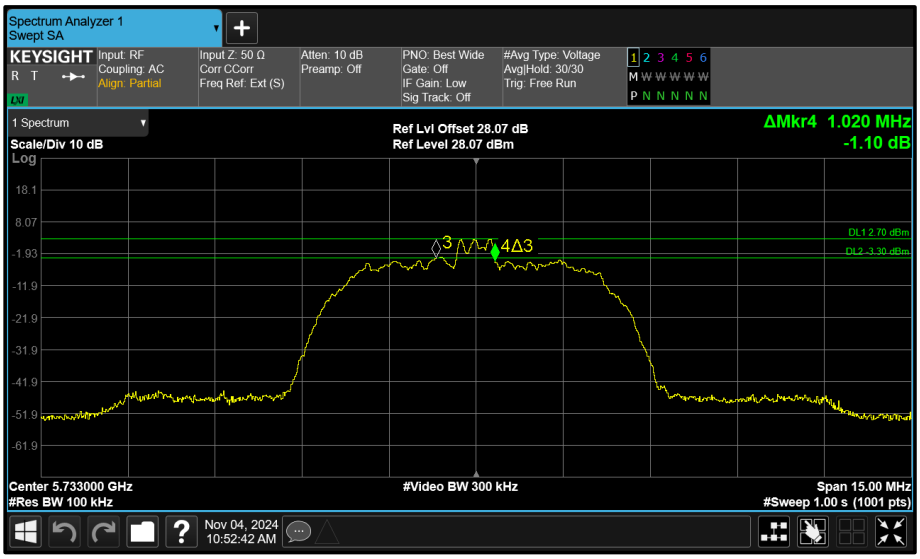

Figure 155 - Core 0 (A) 5733 MHz (CH8) 6 dB Bandwidth

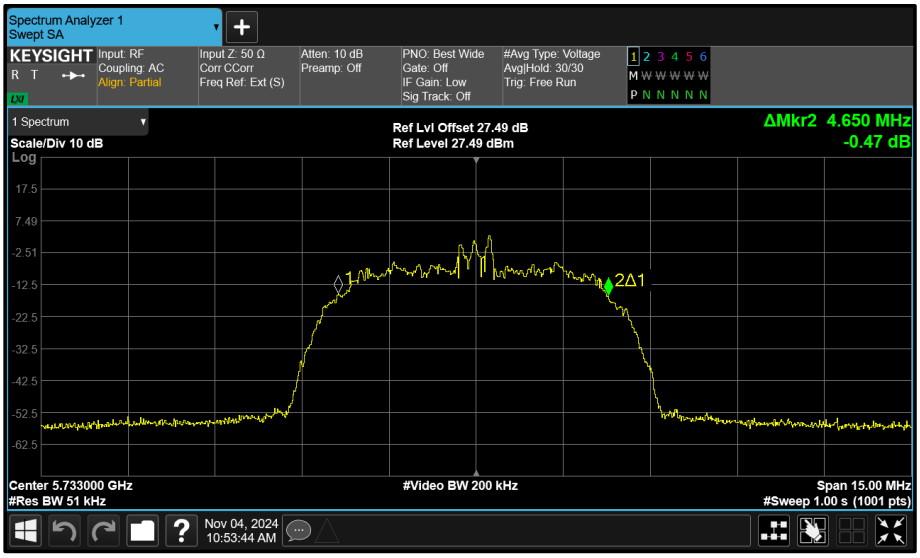

Figure 156 - Core 1 (B) 5733 MHz (CH8) 99% Bandwidth

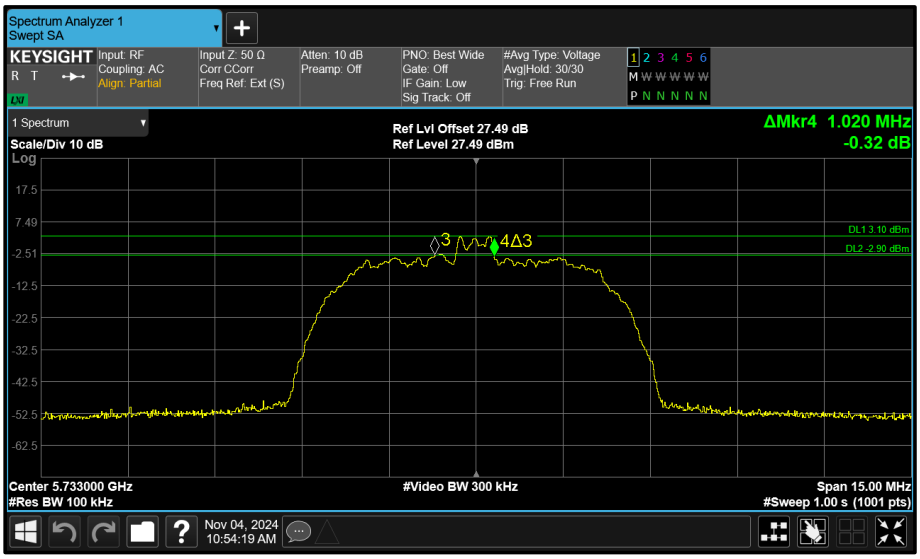

Figure 157 - Core 1 (B) 5733 MHz (CH8) 6 dB Bandwidth

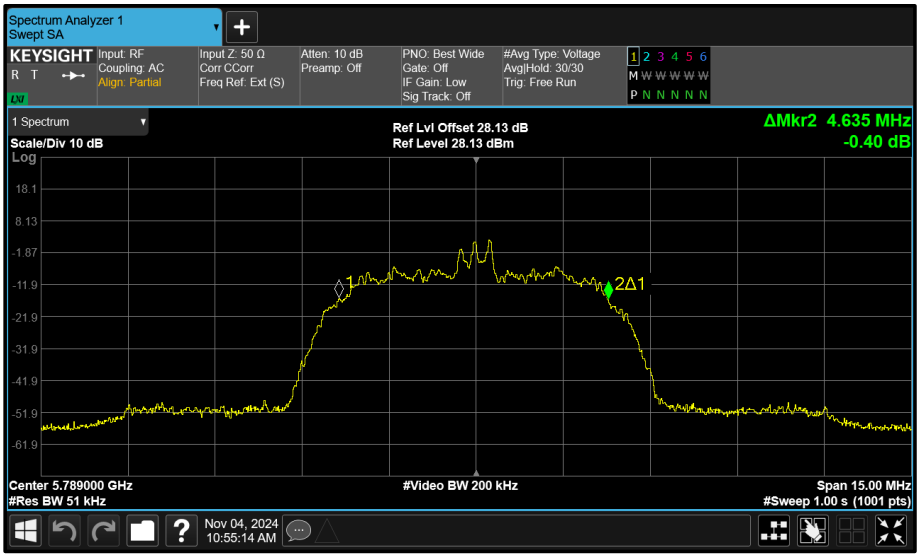

Figure 158 - Core 0 (A) 5789 MHz (CH64) 99% Bandwidth

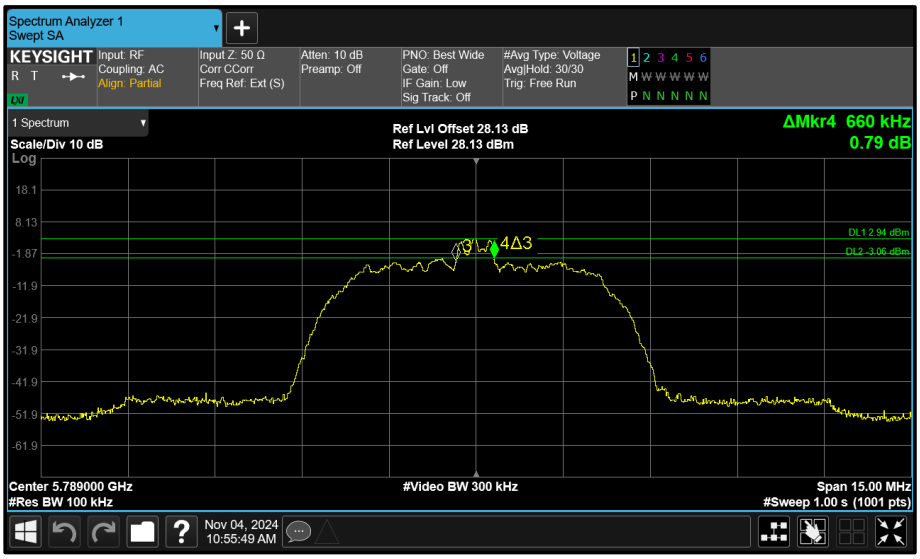

Figure 159 - Core 0 (A) 5789 MHz (CH64) 6 dB Bandwidth

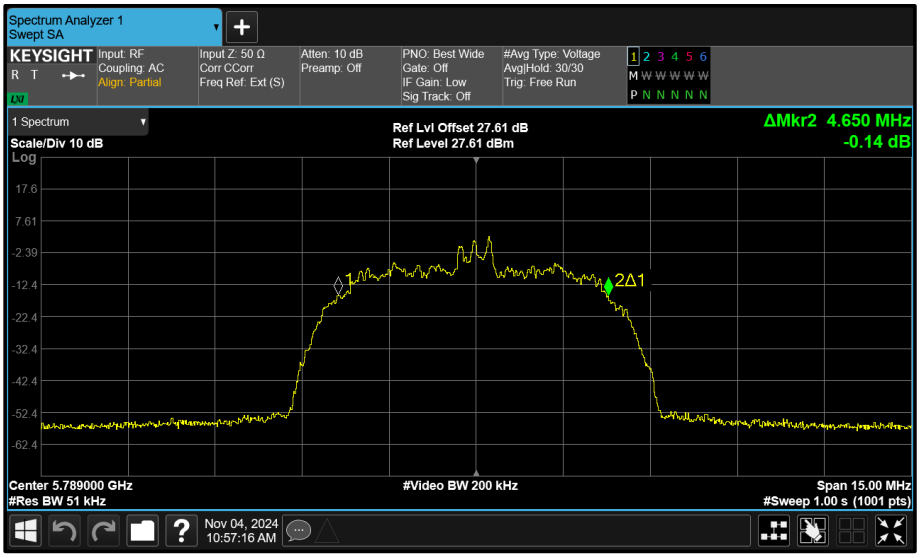

Figure 160 - Core 1 (B) 5789 MHz (CH64) 99% Bandwidth

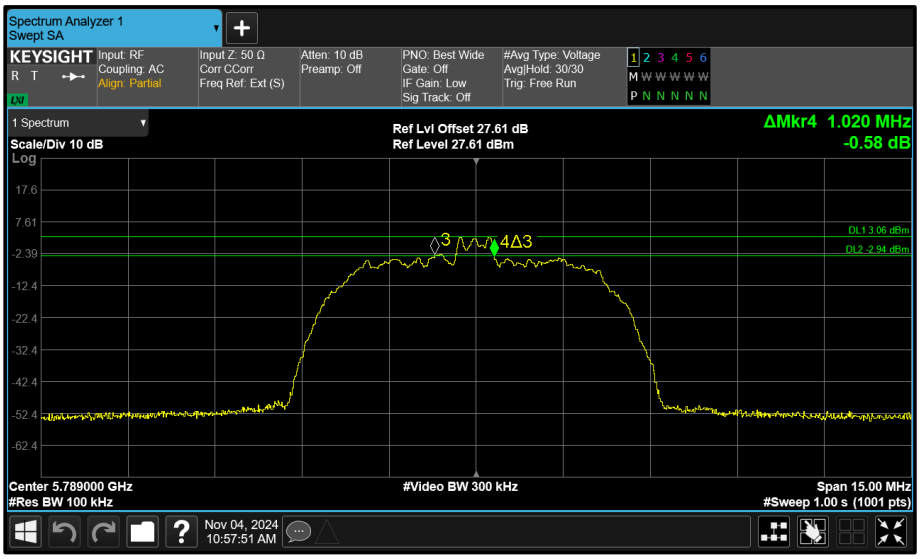

Figure 161 - Core 1 (B) 5789 MHz (CH64) 6 dB Bandwidth

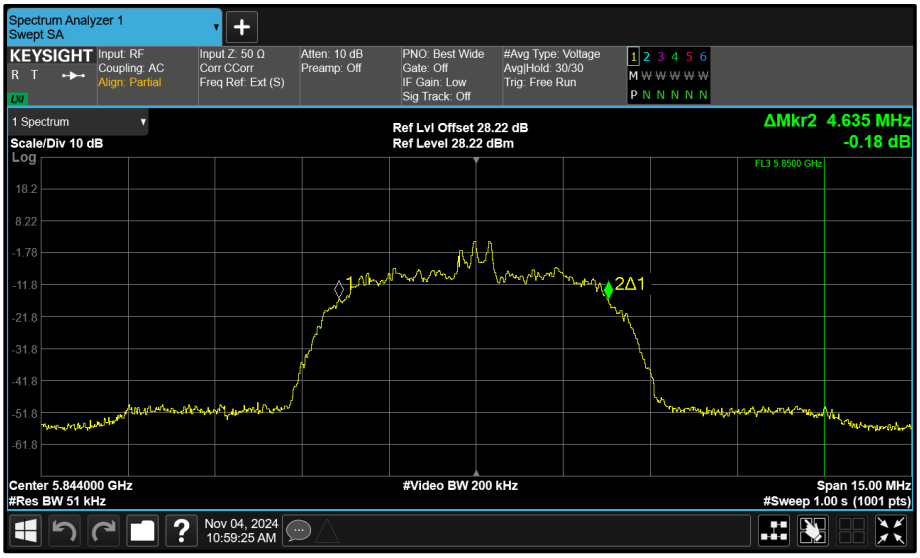

Figure 162 - Core 0 (A) 5844 MHz (CH119) 99% Bandwidth

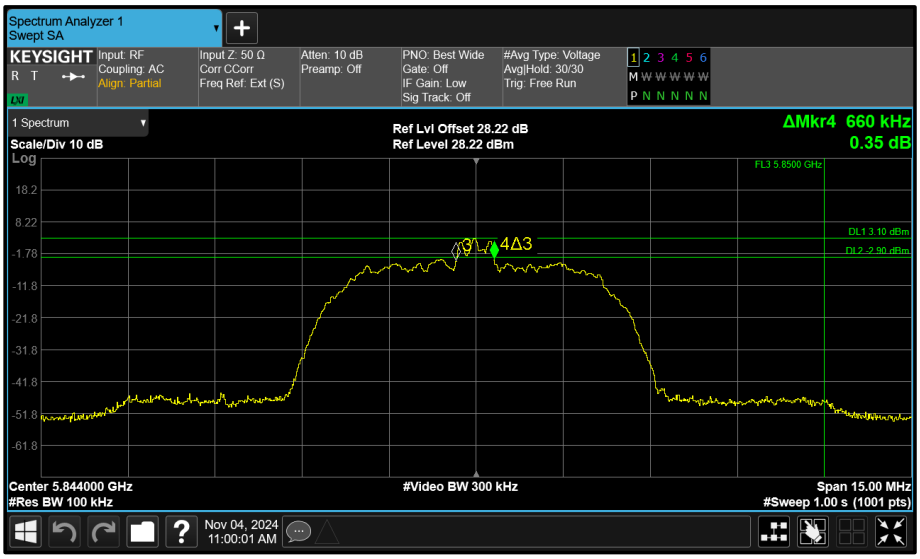

Figure 163 - Core 0 (A) 5844 MHz (CH119) 6 dB Bandwidth

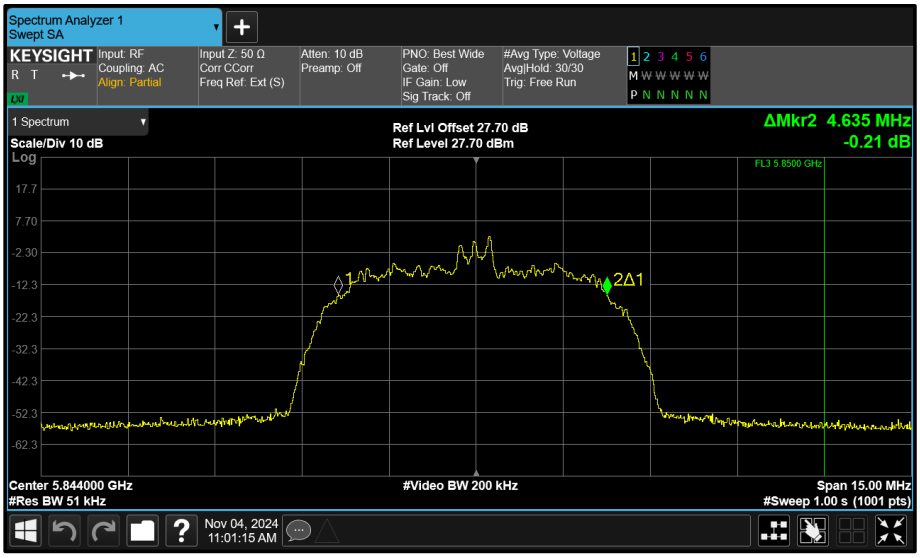

Figure 164 - Core 1 (B) 5844 MHz (CH119) 99% Bandwidth

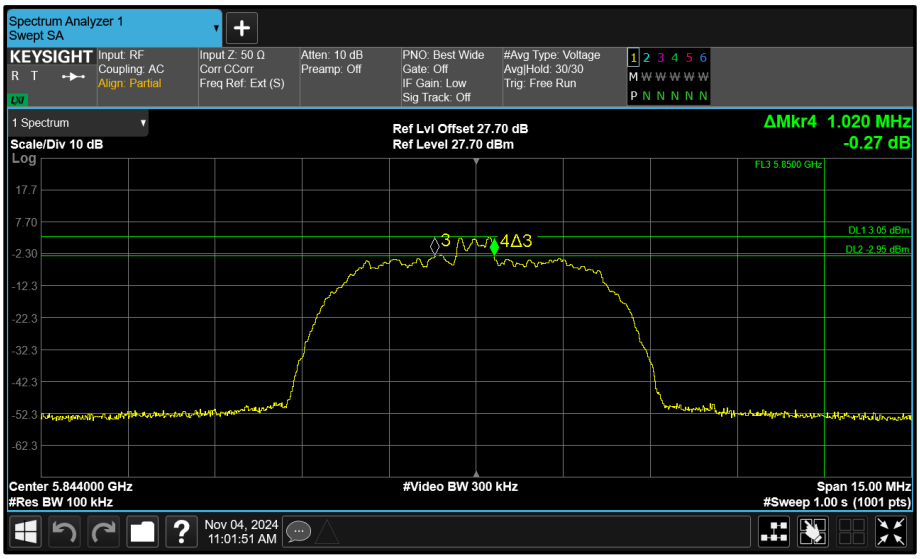

Figure 165 - Core 1 (B) 5844 MHz (CH119) 6 dB Bandwidth

<u>FCC Part 15E, Limit Clause 15.407</u>

5150 MHz to 5250 MHz: None specified.
5250 MHz to 5350 MHz: None specified.
5470 MHz to 5725 MHz: None specified.
5725 MHz to 5850 MHz: > 500 kHz.

<u>ISED RSS-247, Limit Clause 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.1 and 6.2.5.2</u>

5150 MHz to 5250 MHz: None specified.
5250 MHz to 5350 MHz: None specified.
5470 MHz to 5725 MHz: None specified.
5725 MHz to 5850 MHz: The minimum 6 dB bandwidth shall be at least 500 kHz.
5850 MHz to 5895 MHz: The minimum 6 dB bandwidth shall be at least 500 kHz.

2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 2.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
True RMS Multimeter	Fluke	79 Series III	411	12	12-Jan-2025
Hygrometer	Rotronic	Hygropalm 0	3028	12	12-Aug-2025
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
AC Programmable Power Supply	iTech	IT7324	5226	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5528	24	18-Sep-2025
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	13-Dec-2024
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6350	12	02-Aug-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	07-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6638	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6639	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	06-Feb-2025
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025

Table 56

O/P Mon - Output Monitored using calibrated equipment

2.3 Maximum Conducted Output Power

2.3.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2

2.3.2 Equipment Under Test and Modification State

A3241, S/N: G0Q65Y9HP6 - Modification State 0
A3241, S/N: FWKQMY7GHY - Modification State 0

2.3.3 Date of Test

04-November-2024 to 09-December-2024

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10 2020 clause 12.4.3.2 (method PM-G). Since the gated power meter was used for method PM-G the EUT was measured only while transmitting and hence no duty cycle correction was necessary.

MIMO output port summing was performed in accordance with KDB 662911 D01.

The EUT has equal conducted powers on all ports for each mode of operation, but unequal antenna gains. Therefore, for SISO and 2TX MIMO modes the EUT was tested on the ports with the highest antenna gain combinations which would result in the highest EIRP output power.

For transmit beamforming (TxBF) mode directional gain was calculated in accordance with clause F)2)d)(i).

2.3.5 Environmental Conditions

Ambient Temperature	20.6 - 22.3 °C
Relative Humidity	36.4 - 51.2 %

2.3.6 Test Results

Narrowband

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.7
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	-	10.33	-	-	-	22.81	-12.48
5204	-	10.00	-	-	-	22.81	-12.81
5245	-	10.12	-	-	-	22.81	-12.69

Table 57 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.6
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	-	12.20	-	-	-	22.81	-10.61
5204	-	12.25	-	-	-	22.81	-10.56
5245	-	12.17	-	-	-	22.81	-10.64

Table 58 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	ePA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	4.05	3.92	-	-	6.99	19.82	-12.83
5204	4.39	4.15	-	-	7.29	19.82	-12.54
5245	4.49	4.18	-	-	7.35	19.82	-12.48

Table 59 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	ePA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	6.28	6.13	-	-	9.22	19.82	-10.61
5204	6.22	6.23	-	-	9.24	19.82	-10.59
5245	6.34	5.90	-	-	9.14	19.82	-10.69

Table 60 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	13.72	-	-	-	30.00	-16.28
5789	-	13.86	-	-	-	30.00	-16.14
5844	-	13.50	-	-	-	30.00	-16.50

Table 61 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	13.72	-	-	-	30.00	-16.28
5789	-	13.86	-	-	-	30.00	-16.14
5844	-	13.50	-	-	-	30.00	-16.50

Table 62 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	ePA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	13.52	-	-	-	30.00	-16.48
5789	-	13.78	-	-	-	30.00	-16.22
5844	-	13.66	-	-	-	30.00	-16.34

Table 63 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	13.52	-	-	-	30.00	-16.48
5789	-	13.78	-	-	-	30.00	-16.22
5844	-	13.66	-	-	-	30.00	-16.34

Table 64 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	ePA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.5
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	13.69	13.70	-	-	16.71	27.99	-11.28
5789	13.55	13.51	-	-	16.54	27.99	-11.45
5844	13.78	13.75	-	-	16.78	27.99	-11.21

Table 65 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	13.69	13.70	-	-	16.71	27.99	-11.28
5789	13.55	13.51	-	-	16.54	27.99	-11.45
5844	13.78	13.75	-	-	16.78	27.99	-11.21

Table 66 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	ePA π/4 DQPSK (8-DH5)	Duty Cycle (%):	77.9
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	13.87	13.99	-	-	16.94	27.99	-11.05
5789	13.54	13.96	-	-	16.77	27.99	-11.22
5844	13.61	13.71	-	-	16.67	27.99	-11.32

Table 67 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	13.87	13.99	-	-	16.94	27.99	-11.05
5789	13.54	13.96	-	-	16.77	27.99	-11.22
5844	13.61	13.71	-	-	16.67	27.99	-11.32

Table 68 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.9
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	-	8.30	-	-	-	22.81	-14.51
5204	-	8.23	-	-	-	22.81	-14.58
5245	-	8.20	-	-	-	22.81	-14.61

Table 69 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	1.92	2.28	-	-	5.12	19.82	-14.71
5204	1.86	2.06	-	-	4.97	19.82	-14.86
5245	2.07	2.20	-	-	5.15	19.82	-14.68

Table 70 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.6
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	-	3.04	-	-	-	22.81	-19.77
5204	-	3.47	-	-	-	22.81	-19.34
5245	-	3.39	-	-	-	22.81	-19.42

Table 71 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.5
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	-	3.41	-	-	-	22.81	-19.40
5204	-	3.47	-	-	-	22.81	-19.34
5245	-	3.42	-	-	-	22.81	-19.39

Table 72 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.4
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	3.42	3.34	-	-	6.39	19.82	-13.43
5204	3.48	3.20	-	-	6.35	19.82	-13.47
5245	3.50	3.03	-	-	6.28	19.82	-13.54

Table 73 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5162	3.04	3.36	-	-	6.21	19.82	-13.61
5204	3.25	3.11	-	-	6.19	19.82	-13.63
5245	3.36	2.91	-	-	6.15	19.82	-13.67

Table 74 - FCC Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.8
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	9.65	-	-	-	30.00	-20.35
5789	-	9.72	-	-	-	30.00	-20.28
5844	-	9.58	-	-	-	30.00	-20.42

Table 75 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	9.65	-	-	-	30.00	-20.35
5789	-	9.72	-	-	-	30.00	-20.28
5844	-	9.58	-	-	-	30.00	-20.42

Table 76 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	9.95	9.22	-	-	12.61	27.99	-15.38
5789	9.83	9.36	-	-	12.61	27.99	-15.38
5844	9.78	9.90	-	-	12.85	27.99	-15.14

Table 77 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	9.95	9.22	-	-	12.61	27.99	-15.38
5789	9.83	9.36	-	-	12.61	27.99	-15.38
5844	9.78	9.90	-	-	12.85	27.99	-15.14

Table 78 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	3.37	-	-	-	30.00	-26.63
5789	-	3.24	-	-	-	30.00	-26.76
5844	-	3.27	-	-	-	30.00	-26.73

Table 79 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	3.37	-	-	-	30.00	-26.63
5789	-	3.24	-	-	-	30.00	-26.76
5844	-	3.27	-	-	-	30.00	-26.73

Table 80 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	SISO	DCCF (dB):	-
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	3.27	-	-	-	30.00	-26.73
5789	-	3.19	-	-	-	30.00	-26.81
5844	-	3.48	-	-	-	30.00	-26.52

Table 81 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	-	3.27	-	-	-	30.00	-26.73
5789	-	3.19	-	-	-	30.00	-26.81
5844	-	3.48	-	-	-	30.00	-26.52

Table 82 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	3.35	2.11	-	-	5.78	27.99	-22.21
5789	3.35	2.24	-	-	5.84	27.99	-22.15
5844	2.95	3.11	-	-	6.04	27.99	-21.95

Table 83 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	3.35	2.11	-	-	5.78	27.99	-22.21
5789	3.35	2.24	-	-	5.84	27.99	-22.15
5844	2.95	3.11	-	-	6.04	27.99	-21.95

Table 84 - ISED Maximum Conducted (average) Output Power Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.5
Antenna Configuration:	Beamforming	DCCF (dB):	-
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	3.18	1.86	-	-	5.58	27.99	-22.41
5789	3.38	2.47	-	-	5.96	27.99	-22.03
5844	3.06	3.17	-	-	6.13	27.99	-21.86

Table 85 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	∑		
5733	3.18	1.86	-	-	5.58	27.99	-22.41
5789	3.38	2.47	-	-	5.96	27.99	-22.03
5844	3.06	3.17	-	-	6.13	27.99	-21.86

Table 86 - ISED Maximum Conducted (average) Output Power Results

FCC 47 CFR Part 15E, Limit Clause 15.407(a)

Condition of Operation	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
Max Conducted TX Power	30 dBm (1W) for master device 24 dBm (250 mW) for client device	24 dBm (250 mW) or 11 dBm + 10 Log B, whichever is lower (B = 26 dB emission BW)		30 dBm (1 W)
Max EIRP	4W (36 dBm) with 6 dBi antenna 200 W (53 dBm) for fixed P-t-P application with 23 dBi antenna Additional rule for outdoor operation: Max_EIRP < 125 mW (21 dBm) at any elevation angle > 30° from horizon.	1 W (30 dBm) with 6 dBi antenna		4 W (36 dBm) with 6 dBi antenna. No EIRP limit for fixed P-t-P application (i.e., no antenna gain limit)

Table 87

ISED RSS-247, Limit Clause 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.1 and 6.2.5.2

Device	Frequency Range (MHz)				
	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895
OEM installed in vehicles	30 mW or 1.76 + 10 $\log_{10}$B, dBm (EIRP); whichever is less	30 mW or 1.76 + 10 $\log_{10}$B, dBm (EIRP)); whichever is less	-	-	-
Other	200 mW or 10 + 10$\log_{10}$B dBm (EIRP); whichever is less	250 mW or 11 + 10 $\log_{10}$B); whichever is less 1.0 W or 17 + 10$\log_{10}$B dBm EIRP; whichever is less	250 mW or 11 + 10 $\log_{10}$B); whichever is less 1.0 W or 17 + 10$\log_{10}$B dBm EIRP; whichever is less	1W 4W EIRP	Fixed Outdoor Access Point: 4 W EIRP Fixed Outdoor Client: 1 W EIRP Indoor Access Point: 4 W EIRP Indoor subordinate: 4 W EIRP Indoor Client: 1 W EIRP

Table 88

2.3.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 2.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
True RMS Multimeter	Fluke	79 Series III	411	12	12-Jan-2025
Hygrometer	Rotronic	Hygropalm 0	3028	12	12-Aug-2025
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024*
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
AC Programmable Power Supply	iTech	IT7324	5226	-	O/P Mon
USB Power Sensor	Boonton	RTP5008	5820	12	07-Feb-2025
USB Power Sensor	Boonton	RTP5008	5821	12	07-Feb-2025
USB Power Sensor	Boonton	RTP5008	5833	12	26-Jul-2025
USB Power Sensor	Boonton	RTP5008	5834	12	26-Jul-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	16-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6350	12	02-Aug-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	07-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	16-Feb-2025
USB Power Sensor	Boonton	RTP5008	6587	12	13-Feb-2025
USB Power Sensor	Boonton	RTP5008	6588	12	13-Feb-2025
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6638	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6639	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	06-Feb-2025
Handheld Hygrometer	Fluke	971	6837	12	27-Aug-2025
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025

Table 89

O/P Mon - Output Monitored using calibrated equipment

*NOTE: Only used within calibration period.

2.4 Maximum Conducted Power Spectral Density

2.4.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (a)
ISED RSS-247, Clause 6.2

2.4.2 Equipment Under Test and Modification State

A3241, S/N: FWKQMY7GHY - Modification State 0
A3241, S/N: G0Q65Y9HP6 - Modification State 0

2.4.3 Date of Test

04-November-2024 to 09-December-2024

2.4.4 Test Method

The test was performed in accordance with ANSI C63.10 2020 clause 12.6.

Where the EUT duty cycle was < 98 % and repeatable within 2 %, the spectrum analyser was set to trace (power) averaging and a duty cycle correction was added as calculated in the result tables below (Method SA-2). Where the duty cycle was = 98 % the spectrum analyser was set to trace (power) averaging and no duty cycle correction made (Method SA-1). In all other cases the spectrum analyser trace was set to max hold (Method SA-3).

Results for the U-NII-3 band were measured in a narrower bandwidth and integrated over 500 kHz using the spectrum analyzers channel power integration function.

The output power was verified as being the same from each transmit core (within negligible tolerances), but the antenna gains were not identical. Therefore, the modes reported for SISO or 2TX MIMO operation are those giving the highest EIRP and/or lowest conducted limit based on the combination of antennas giving highest total directional gain.

MIMO output port summing was performed in accordance with KDB 662911 D01.

For transmit beamforming (TxBF) mode it was calculated in accordance with clause F)2)d)(i).

2.4.5 Environmental Conditions

Ambient Temperature	20.6 - 22.3 °C
Relative Humidity	36.4 - 51.2 %

2.4.6 Test Results

Narrowband

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	ePA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.7
Antenna Configuration:	SISO	DCCF (dB):	1.04
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	-	7.49	-	-	-	9.81	-2.32
5204	-	7.79	-	-	-	9.81	-2.02
5245	-	7.84	-	-	-	9.81	-1.97

Table 90 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	ePA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.6
Antenna Configuration:	SISO	DCCF (dB):	1.05
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	-	7.14	-	-	-	9.81	-2.67
5204	-	6.99	-	-	-	9.81	-2.82
5245	-	7.44	-	-	-	9.81	-2.37

Table 91 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	ePA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	Beamforming	DCCF (dB):	1.07
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	1.19	1.32	-	-	4.27	6.82	-2.56
5204	1.56	1.18	-	-	4.38	6.82	-2.44
5245	1.76	1.36	-	-	4.57	6.82	-2.25

Table 92 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	ePA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	Beamforming	DCCF (dB):	1.07
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	0.75	0.83	-	-	3.80	6.82	-3.02
5204	1.14	0.51	-	-	3.85	6.82	-2.97
5245	0.56	0.65	-	-	3.61	6.82	-3.21

Table 93 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	ePA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	SISO	DCCF (dB):	1.07
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5733	-	8.93	-	-	-	30.00	-21.07
5789	-	9.12	-	-	-	30.00	-20.88
5844	-	8.86	-	-	-	30.00	-21.14

Table 94 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	ePA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	SISO	DCCF (dB):	1.07
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5733	-	6.09	-	-	-	30.00	-23.91
5789	-	6.50	-	-	-	30.00	-23.50
5844	-	5.71	-	-	-	30.00	-24.29

Table 95 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	ePA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.5
Antenna Configuration:	Beamforming	DCCF (dB):	1.05
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5733	8.18	8.76	-	-	11.49	27.99	-16.50
5789	8.28	8.72	-	-	11.51	27.99	-16.47
5844	9.14	8.52	-	-	11.86	27.99	-16.13

Table 96 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	ePA π/4 DQPSK (8-DH5)	Duty Cycle (%):	77.9
Antenna Configuration:	Beamforming	DCCF (dB):	1.08
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5733	6.14	6.41	-	-	9.29	27.99	-18.70
5789	5.97	6.17	-	-	9.08	27.99	-18.91
5844	6.12	5.11	-	-	8.65	27.99	-19.33

Table 97 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.9
Antenna Configuration:	SISO	DCCF (dB):	1.14
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	-	7.90	-	-	-	9.81	-1.91
5204	-	8.26	-	-	-	9.81	-1.55
5245	-	8.31	-	-	-	9.81	-1.50

Table 98 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	77.4
Antenna Configuration:	Beamforming	DCCF (dB):	1.11
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	1.11	1.25	-	-	4.19	6.82	-2.63
5204	1.10	1.54	-	-	4.33	6.82	-2.49
5245	1.47	1.69	-	-	4.59	6.82	-2.24

Table 99 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.6
Antenna Configuration:	SISO	DCCF (dB):	1.04
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	-	0.61	-	-	-	9.81	-9.20
5204	-	1.37	-	-	-	9.81	-8.44
5245	-	0.59	-	-	-	9.81	-9.22

Table 100 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.5
Antenna Configuration:	SISO	DCCF (dB):	1.05
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	7.19

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	-	-2.16	-	-	-	9.81	-11.97
5204	-	-1.29	-	-	-	9.81	-11.10
5245	-	-1.61	-	-	-	9.81	-11.42

Table 101 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.4
Antenna Configuration:	Beamforming	DCCF (dB):	1.06
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	0.28	0.62	-	-	3.47	6.82	-3.36
5204	0.75	0.41	-	-	3.59	6.82	-3.23
5245	0.45	0.04	-	-	3.26	6.82	-3.56

Table 102 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.150-5.250 GHz	Band:	U-NII-1
Limit Clause(s):	15.407 (a)(1)(iv)	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	Beamforming	DCCF (dB):	1.07
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	10.18

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / MHz)	Margin (dB)
	A	B	C	D	∑		
5162	-1.98	-1.90	-	-	1.07	6.82	-5.75
5204	-2.02	-2.61	-	-	0.70	6.82	-6.12
5245	-2.52	-2.19	-	-	0.66	6.82	-6.17

Table 103 - FCC Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.8
Antenna Configuration:	SISO	DCCF (dB):	1.15
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5733	-	8.85	-	-	-	30.00	-21.15
5789	-	8.60	-	-	-	30.00	-21.40
5844	-	9.09	-	-	-	30.00	-20.91

Table 104 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA GFSK (DH5)	Duty Cycle (%):	76.7
Antenna Configuration:	Beamforming	DCCF (dB):	1.15
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5733	9.08	8.77	-	-	11.94	27.99	-16.05
5789	8.30	8.43	-	-	11.37	27.99	-16.61
5844	8.45	9.13	-	-	11.81	27.99	-16.18

Table 105 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	SISO	DCCF (dB):	1.07
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5733	-	-1.78	-	-	-	30.00	-31.78
5789	-	-1.76	-	-	-	30.00	-31.76
5844	-	-2.09	-	-	-	30.00	-32.09

Table 106 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	-		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.2
Antenna Configuration:	SISO	DCCF (dB):	1.07
Active Port(s):	B (Core 1)	Peak Antenna Gain (dBi):	5.17

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	∑		
5733	-	-3.54	-	-	-	30.00	-33.54
5789	-	-3.08	-	-	-	30.00	-33.08
5844	-	-3.51	-	-	-	30.00	-33.51

Table 107 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA π/4 DQPSK (4-DH5)	Duty Cycle (%):	78.1
Antenna Configuration:	Beamforming	DCCF (dB):	1.07
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	Σ		
5733	-1.56	-2.71	-	-	0.91	27.99	-27.07
5789	-2.23	-2.89	-	-	0.47	27.99	-27.52
5844	-2.11	-2.13	-	-	0.89	27.99	-27.10

Table 108 - Maximum Power Spectral Density Results

Test Configuration			
Frequency Range:	5.725-5.850 GHz	Band:	U-NII-3
Limit Clause(s):	15.407 (a)(3) RSS-247 6.2.4.1	Test Method(s):	C63.10 12.4.2.4 C63.10 12.6
Additional Reference(s):	662911 D01 v02r01 E)2)b)		
Note(s):	DCCF was added to the spectrum analyser reference level offset.		

DUT Configuration			
Mode:	iPA π/4 DQPSK (8-DH5)	Duty Cycle (%):	78.5
Antenna Configuration:	Beamforming	DCCF (dB):	1.05
Active Port(s):	A+B (Core 0 + Core 1)	Peak Antenna Gain (dBi):	8.01

Test Frequency (MHz)	PSD (dBm/MHz)					Limit (dBm / 500 kHz)	Margin (dB)
	A	B	C	D	Σ		
5733	-4.52	-6.11	-	-	-2.23	27.99	-30.22
5789	-4.42	-5.35	-	-	-1.85	27.99	-29.84
5844	-4.76	-4.64	-	-	-1.69	27.99	-29.68

Table 109 - Maximum Power Spectral Density Results

FCC 47 CFR Part 15E, Limit Clause 15.407(a)

Condition of Operation	Frequency Range (MHz)			
	5150-5250	5250-5350	5470-5725	5725-5850
Max Conducted Power Spectral Density	17 dBm/MHz for master device 11 dBm/MHz for mobile/portable client device	11 dBm/MHz		30 dBm/500 kHz

Table 110

ISED RSS-247, Limit Clause 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.1 and 6.2.5.2

Device	Frequency Range (MHz)				
	5150-5250	5250-5350	5470-5725	5725-5850	5850-5895
OEM installed in vehicles	-	-	-	-	-
Other	≤10 dBm/MHz*	≤11 dBm/MHz	≤11 dBm/MHz	≤30 dBm/500kHz	Fixed Outdoor Access Point: 23 dBm/MHz* Fixed Outdoor Client: 17 dBm/MHz Indoor Access Point: 20 dBm/MHz Indoor Subordinate: 20 dBm/MHz Indoor Client: 14 dBm/MHz

Table 111

*Maximum power spectral density specified as EIRP.

2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 18 and RF Laboratory 2.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
True RMS Multimeter	Fluke	79 Series III	411	12	12-Jan-2025
Hygrometer	Rotronic	Hygropalm 0	3028	12	12-Aug-2025
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024*
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
AC Programmable Power Supply	iTech	IT7324	5226	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5528	24	18-Sep-2025
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	13-Dec-2024
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6350	12	02-Aug-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	26-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6426	12	07-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6638	12	02-Aug-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6639	12	02-Aug-2025
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6752	12	06-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6753	12	06-Feb-2025
Handheld Hygrometer	Fluke	971	6837	12	27-Aug-2025
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025

Table 112

O/P Mon - Output Monitored using calibrated equipment

*NOTE: Only used within calibration period.

2.5 Authorised Band Edges

2.5.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (b)
ISED RSS-247, Clause 6.2

2.5.2 Equipment Under Test and Modification State

A3241, S/N: HJKCRQM3K9 - Modification State 0

2.5.3 Date of Test

30-September-2024 to 06-October-2024

2.5.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.6.

Field Strength (dBµV/m at 3 m) = EIRP (dBm) + 95.2 dB

Authorised band edge measurements were performed, with the device operating in SISO and MIMO configurations, across the various modes supported by the device.

The measurements displayed within this report, have been limited to those modes which have been shown to be worst case.

Further measurements are held on file by TÜV SÜD and are available if required.

2.5.5 Environmental Conditions

Ambient Temperature	21.9 - 23.2 °C
Relative Humidity	46.1 - 59.3 %

2.5.6 Test Results

Narrowband

iPA - Core 0 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)
Static	DH5	5733	5725	56.43
Static	HDR4	5733	5725	55.98
Static	HDR8	5733	5725	56.69
Static	DH5	5844	5850	56.65
Static	HDR4	5844	5850	56.10
Static	HDR8	5844	5850	56.89

Table 113 - SISO Authorised Band Edge Results

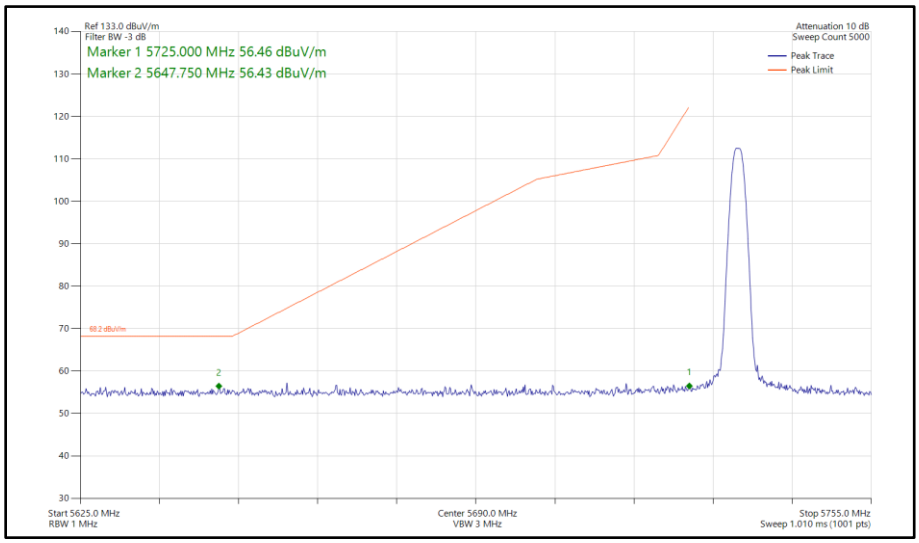

Figure 166 - Bluetooth DH5, SISO, Core 0 - 5733 MHz
Band Edge Frequency 5725 MHz

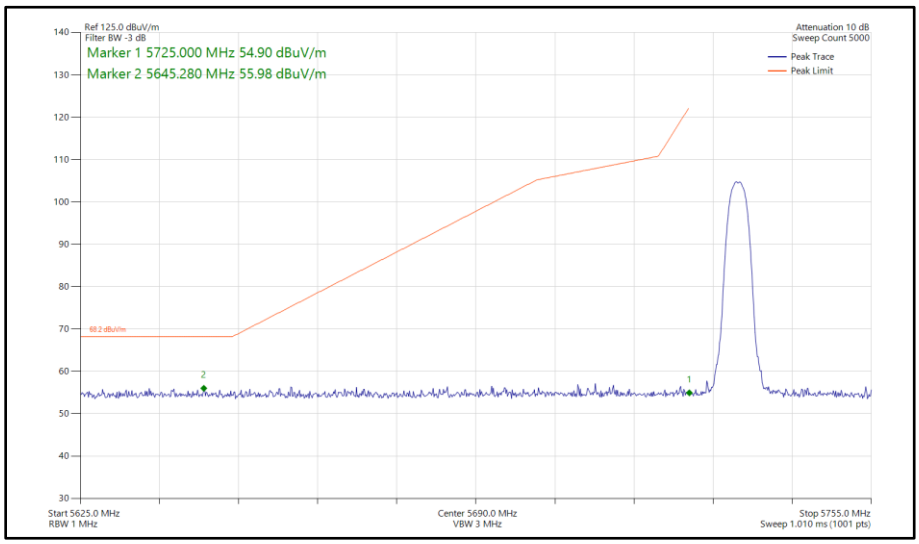

Figure 167 - Bluetooth HDR4, SISO, Core 0 - 5733 MHz Band Edge Frequency 5725 MHz

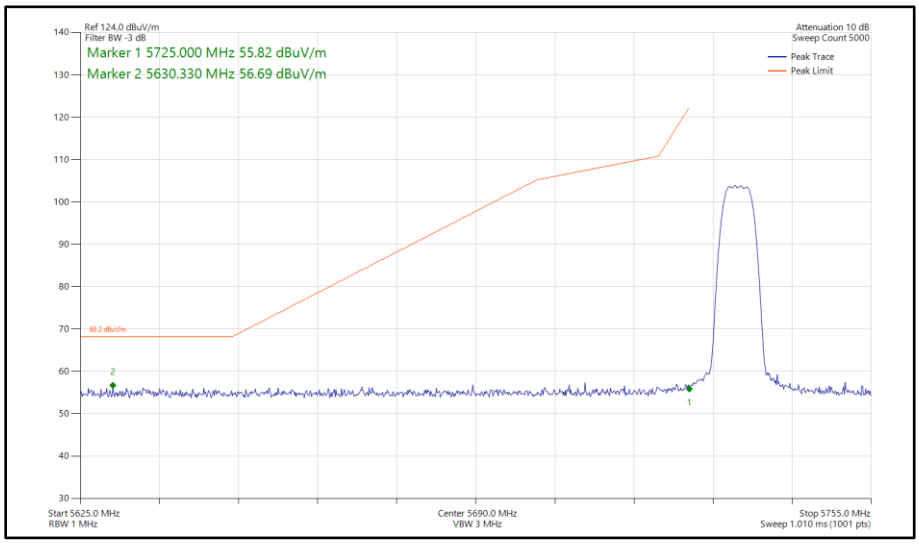

Figure 168 - Bluetooth HDR8, SISO, Core 0 - 5733 MHz Band Edge Frequency 5725 MHz

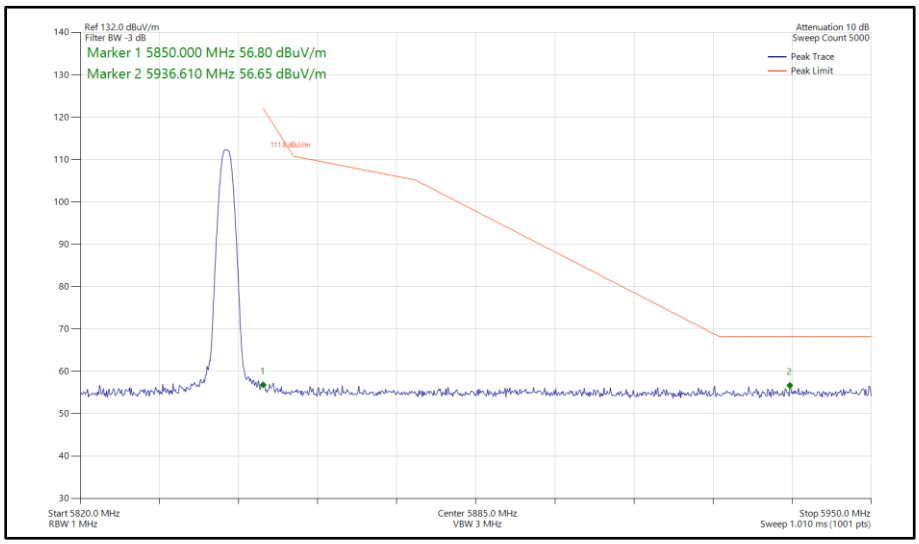

Figure 169 - Bluetooth DH5, SISO, Core 0 - 5844 MHz
Band Edge Frequency 5850 MHz

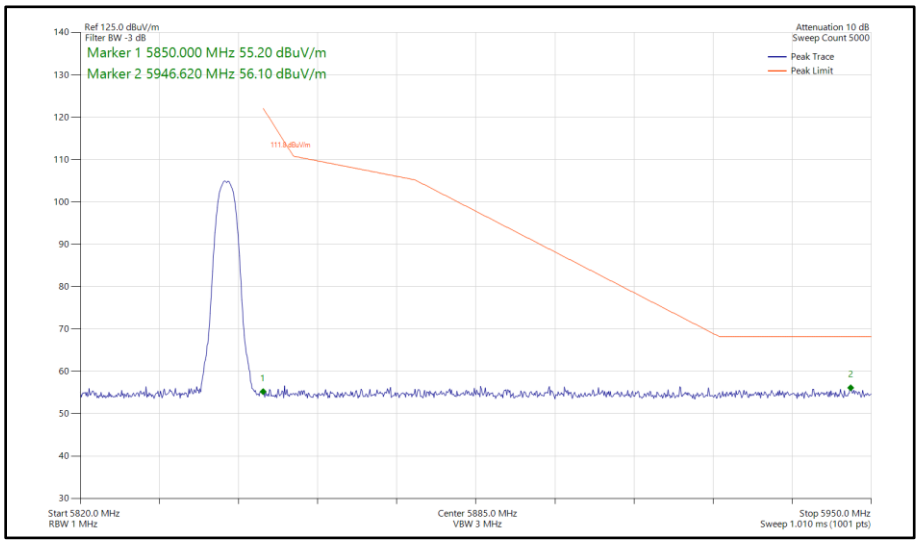

Figure 170 - Bluetooth HDR4, SISO, Core 0 - 5844 MHz
Band Edge Frequency 5850 MHz

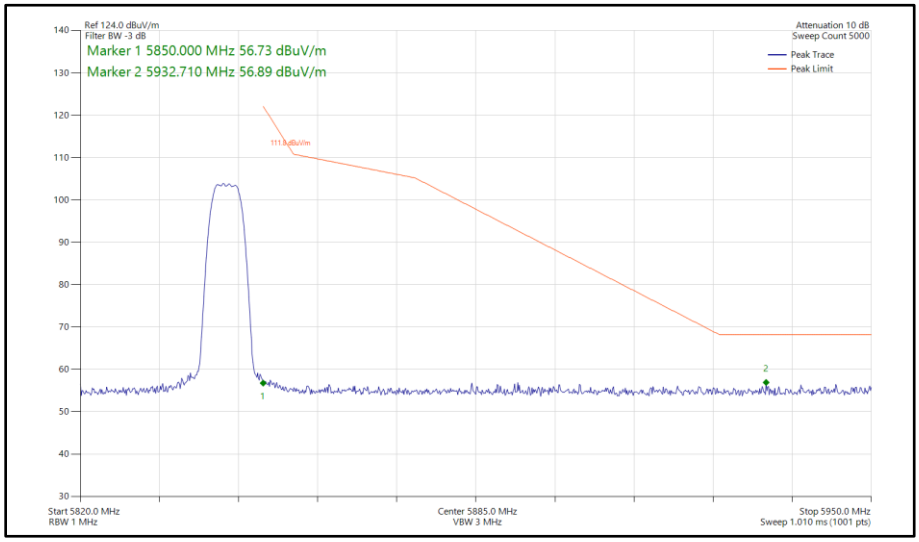

Figure 171 - Bluetooth HDR8, SISO, Core 0 - 5844 MHz
Band Edge Frequency 5850 MHz

iPA - Core 1 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)
Static	DH5	5733	5725	58.27
Static	HDR4	5733	5725	55.86
Static	HDR8	5733	5725	56.14
Static	DH5	5844	5850	59.71
Static	HDR4	5844	5850	57.37
Static	HDR8	5844	5850	56.26

Table 114 - SISO Authorised Band Edge Results

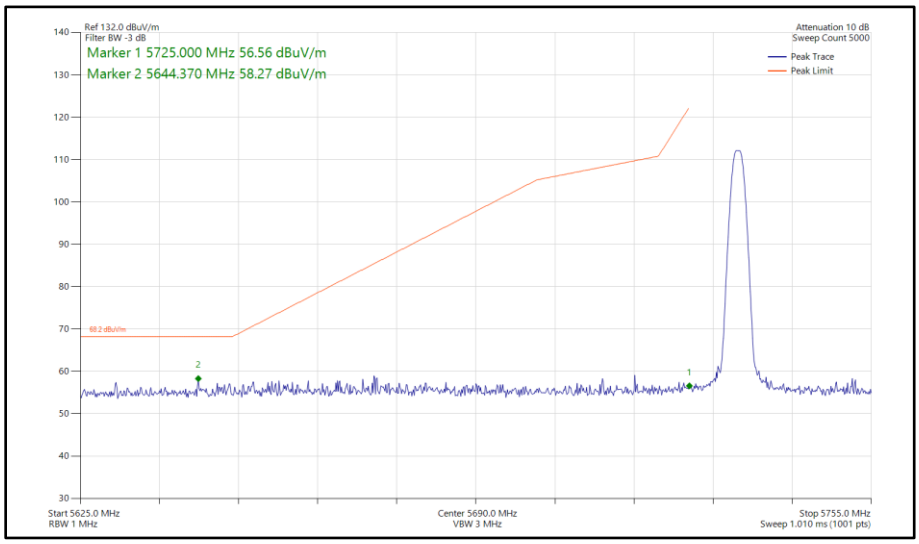

Figure 172 - Bluetooth DH5, SISO, Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

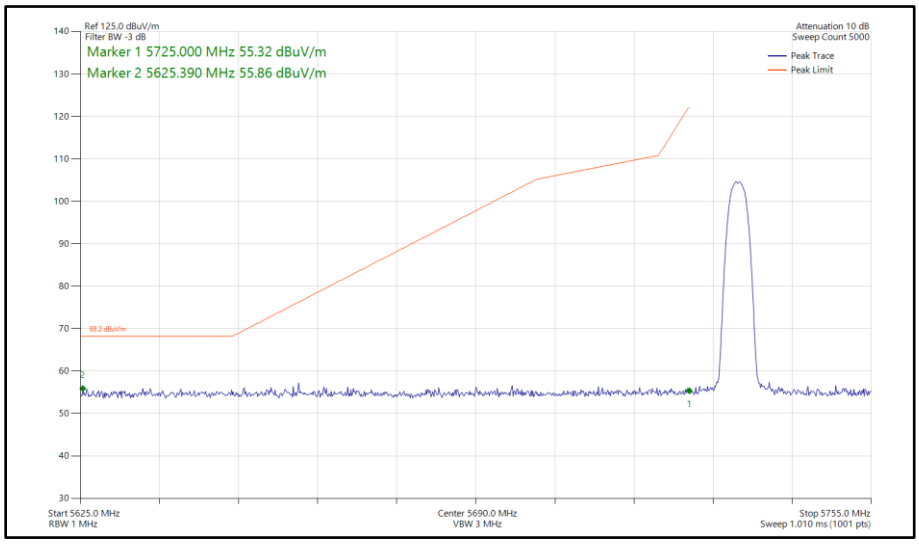

Figure 173 - Bluetooth HDR4, SISO, Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

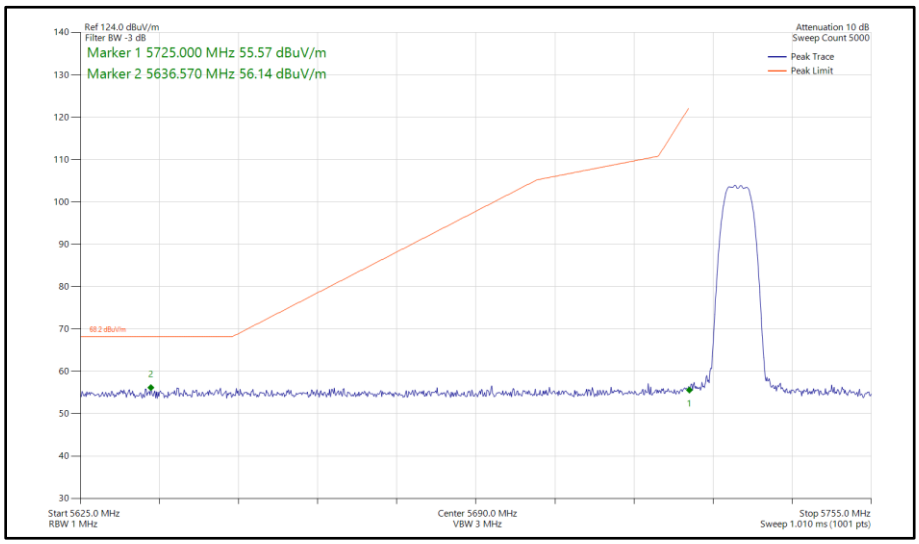

Figure 174 - Bluetooth HDR8, SISO, Core 1 - 5733 MHz
Band Edge Frequency 5725 MHz

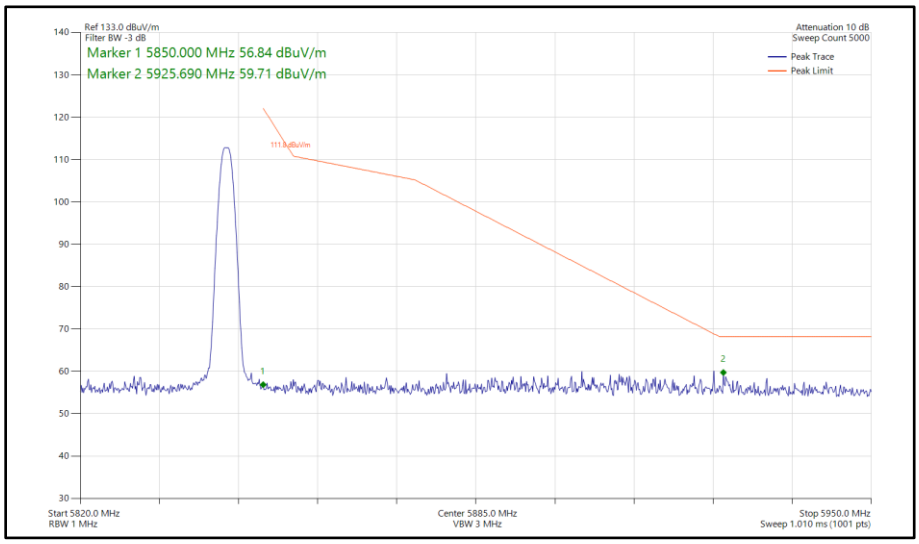

Figure 175 - Bluetooth DH5, SISO, Core 1 - 5844 MHz
Band Edge Frequency 5850 MHz

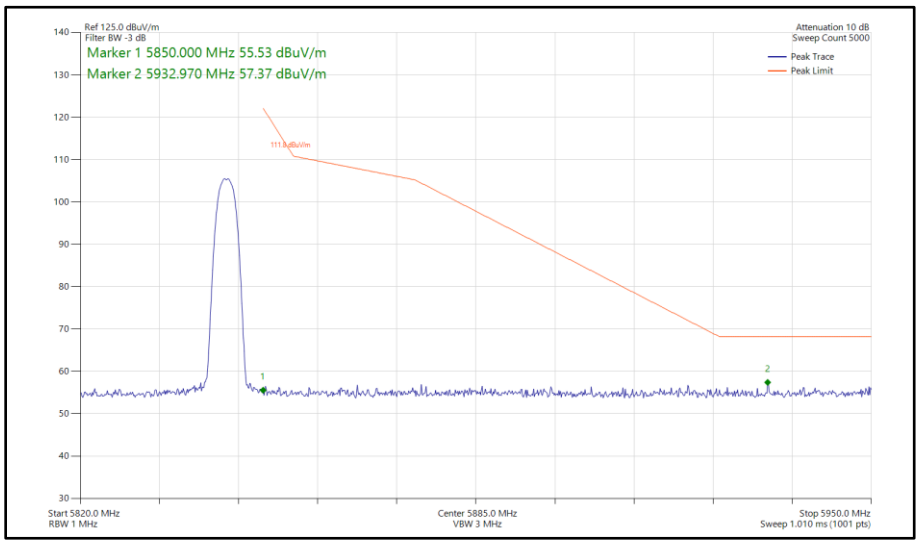

Figure 176 - Bluetooth HDR4, SISO, Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

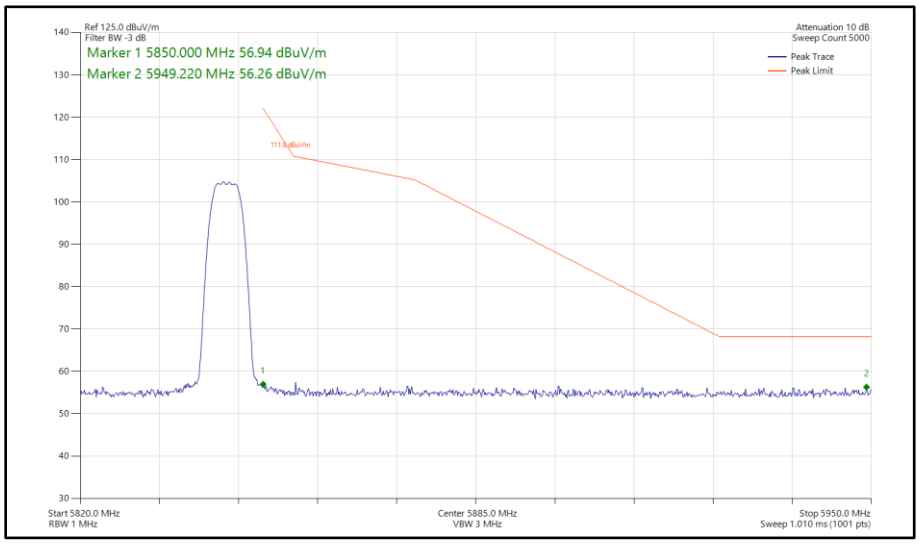

Figure 177 - Bluetooth HDR8, SISO, Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

iPA - Core 0 - Core 1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)
Static	DH5	5733	5725	56.98
Static	HDR4	5733	5725	56.16
Static	HDR8	5733	5725	56.32
Static	DH5	5844	5850	57.00
Static	HDR4	5844	5850	56.19
Static	HDR8	5844	5850	58.00

Table 115 - MIMO Authorised Band Edge Results

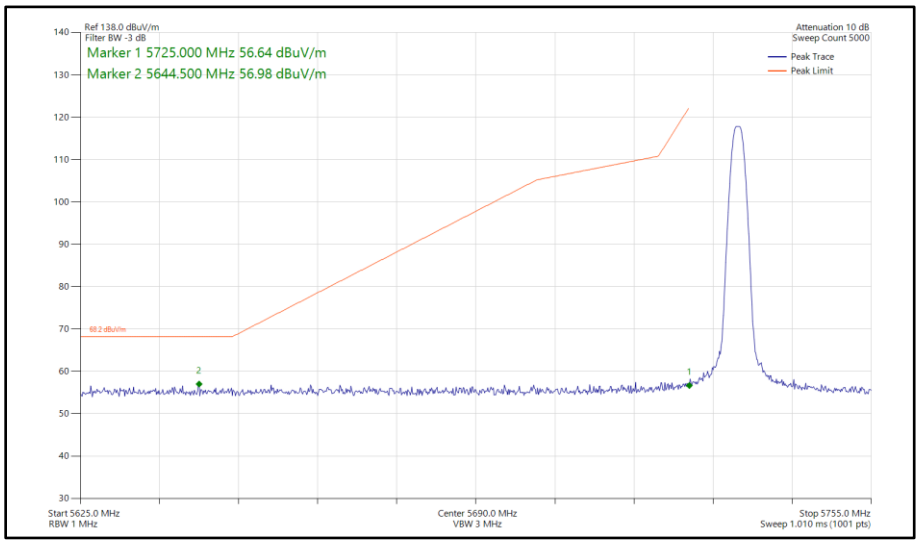

Figure 178 - Bluetooth DH5, MIMO, Core 0 - Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

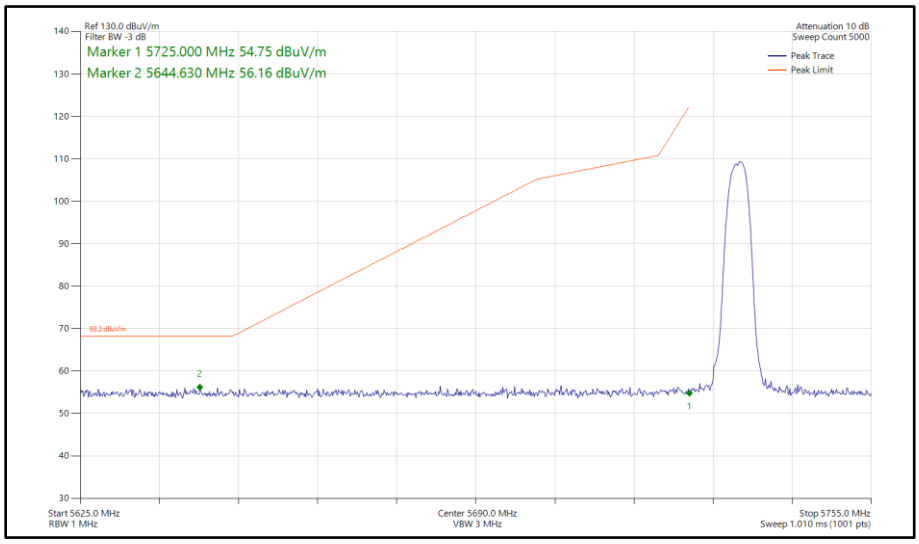

Figure 179 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

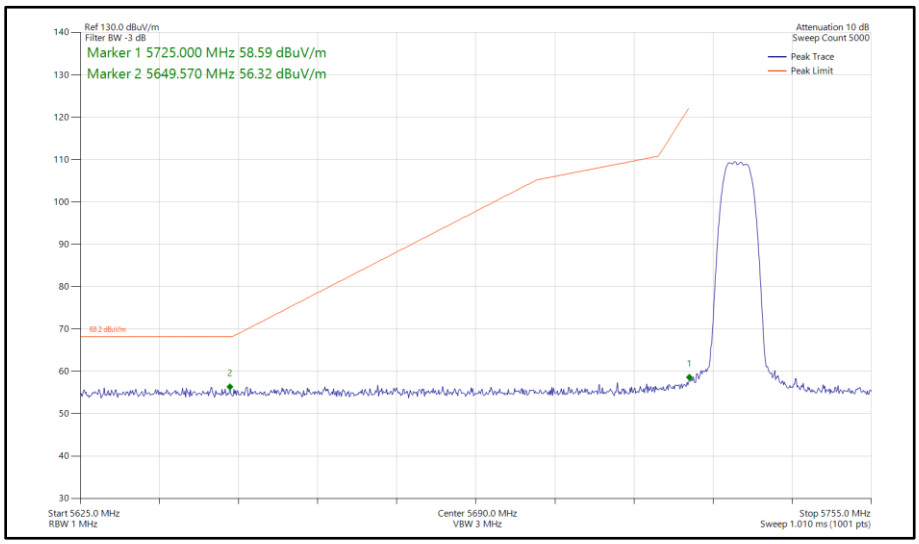

Figure 180 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

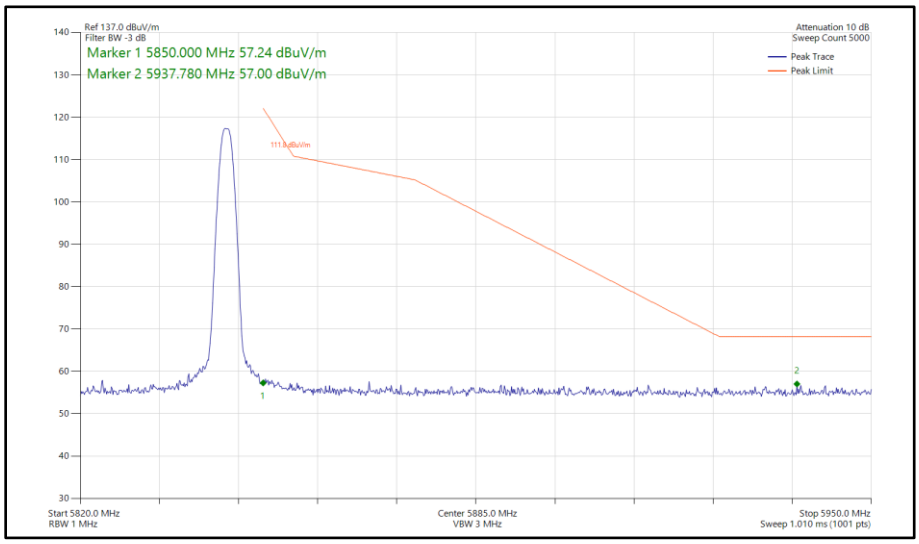

Figure 181 - Bluetooth DH5, MIMO, Core 0 - Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

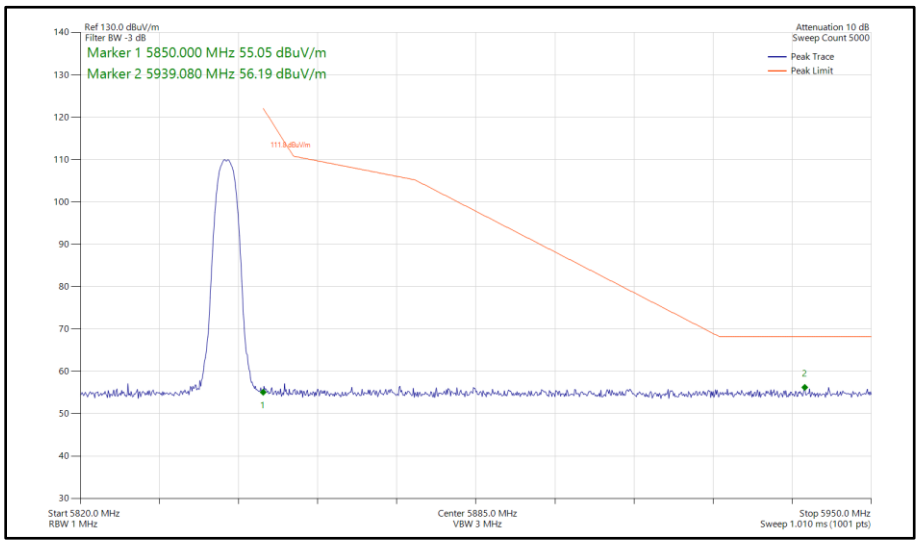

Figure 182 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

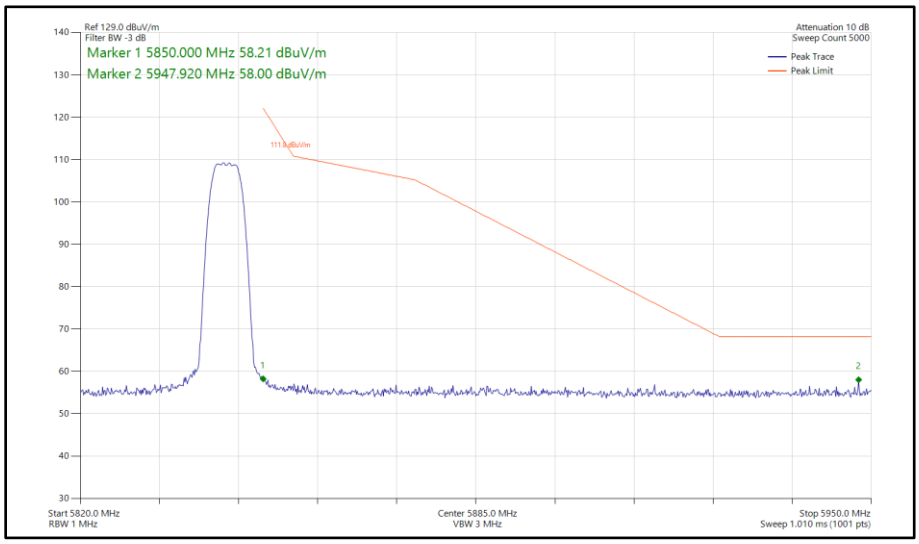

Figure 183 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

ePA - Core 0 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)
Static	HDR4	5733	5725	56.95
Static	HDR8	5733	5725	56.79
Static	HDR4	5844	5850	56.64
Static	HDR8	5844	5850	57.03

Table 116 - SISO Authorised Band Edge Results

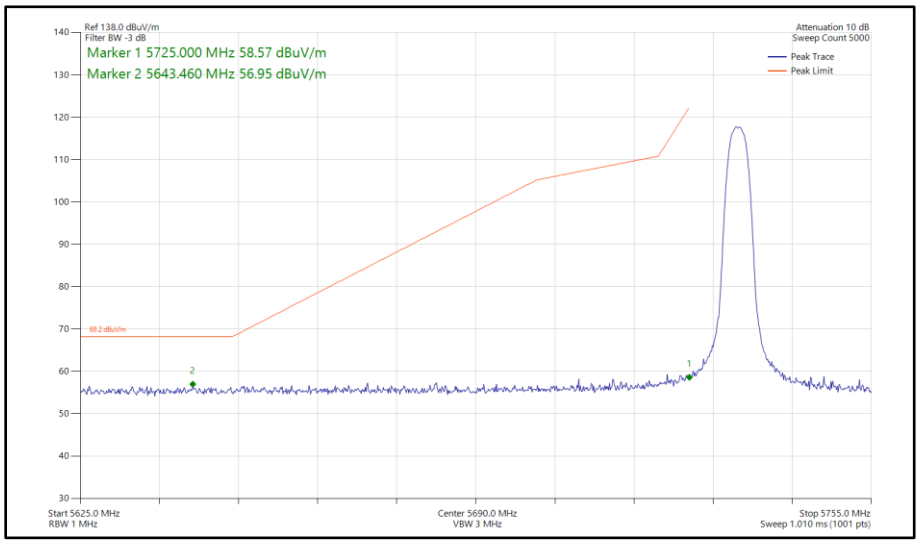

Figure 184 - Bluetooth HDR4, SISO, Core 0 - 5733 MHz Band Edge Frequency 5725 MHz

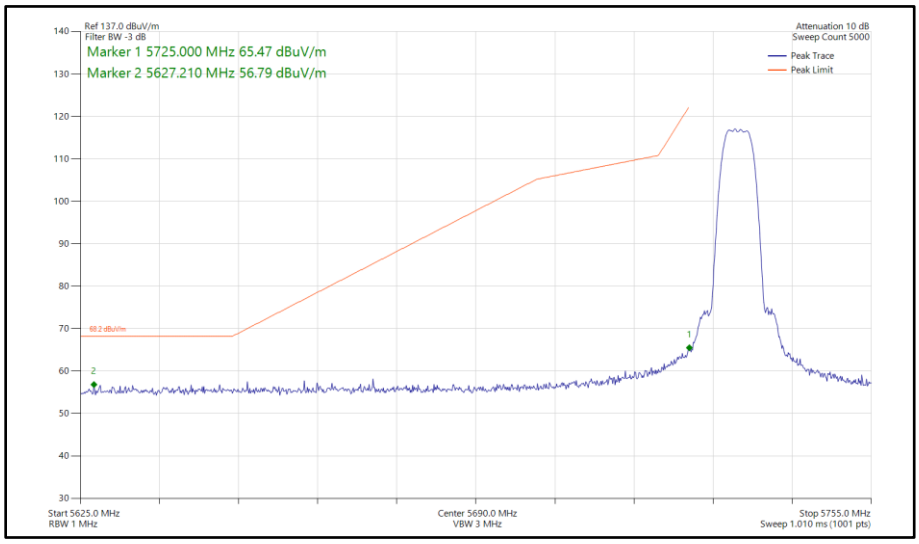

Figure 185 - Bluetooth HDR8, SISO, Core 0 - 5733 MHz Band Edge Frequency 5725 MHz

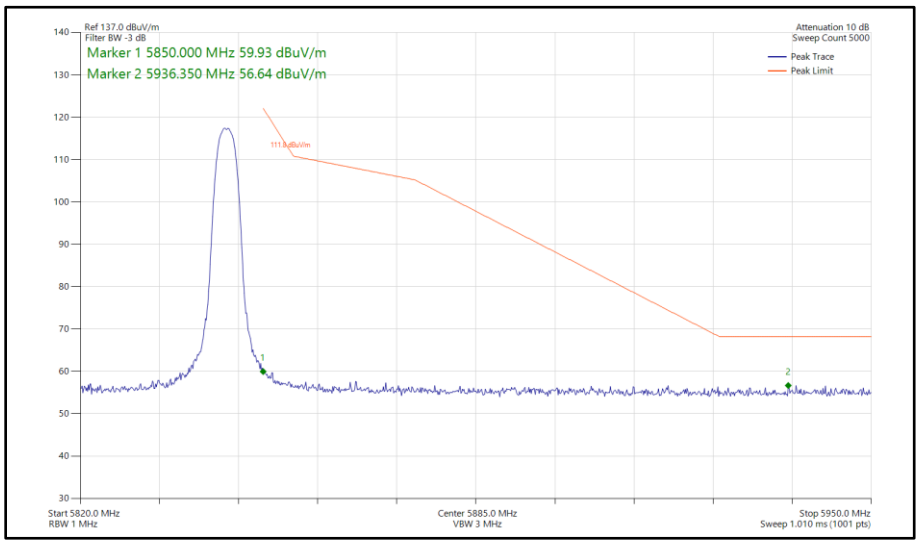

Figure 186 - Bluetooth HDR4, SISO, Core 0 - 5844 MHz Band Edge Frequency 5850 MHz

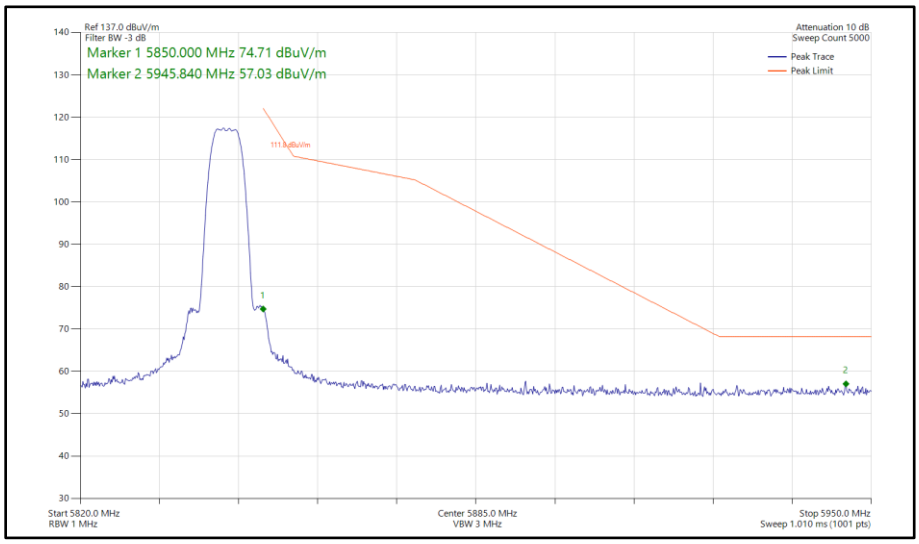

Figure 187 - Bluetooth HDR8, SISO, Core 0 - 5844 MHz Band Edge Frequency 5850 MHz

ePA - Core 1 (SISO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)
Static	HDR4	5733	5725	56.39
Static	HDR8	5733	5725	56.82
Static	HDR4	5844	5850	57.32
Static	HDR8	5844	5850	57.24

Table 117 - SISO Authorised Band Edge Results

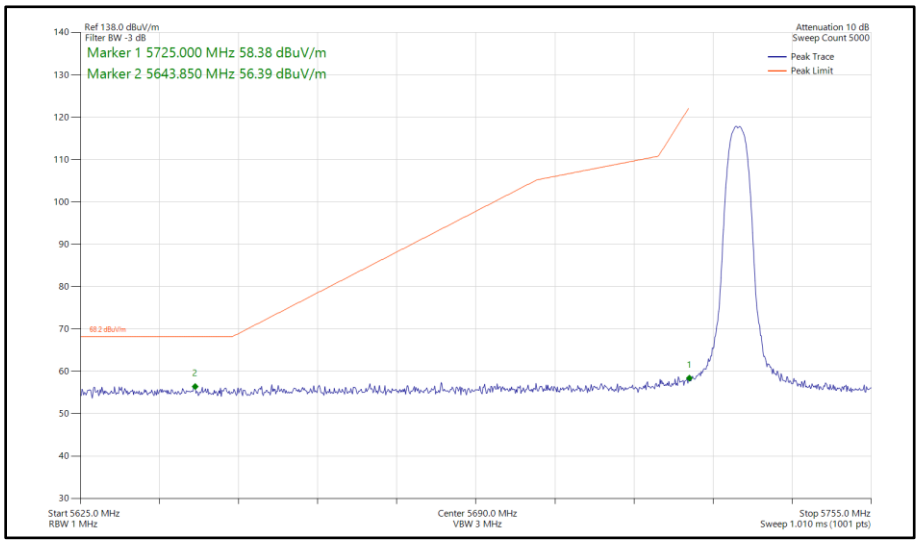

Figure 188 - Bluetooth HDR4, SISO, Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

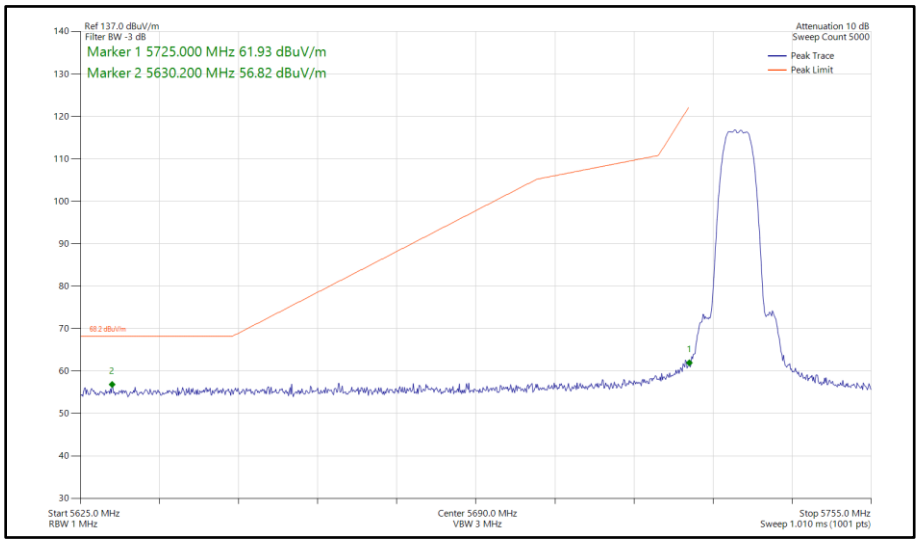

Figure 189 - Bluetooth HDR8, SISO, Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

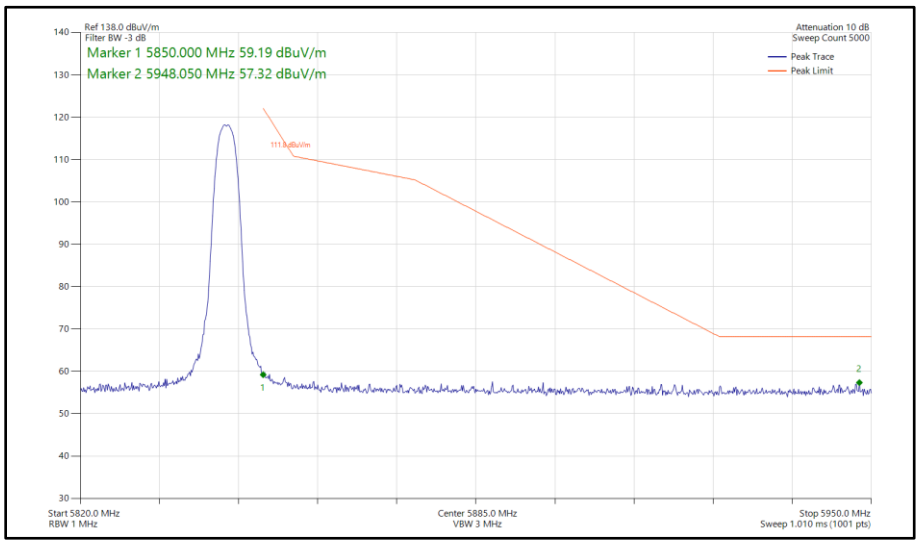

Figure 190 - Bluetooth HDR4, SISO, Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

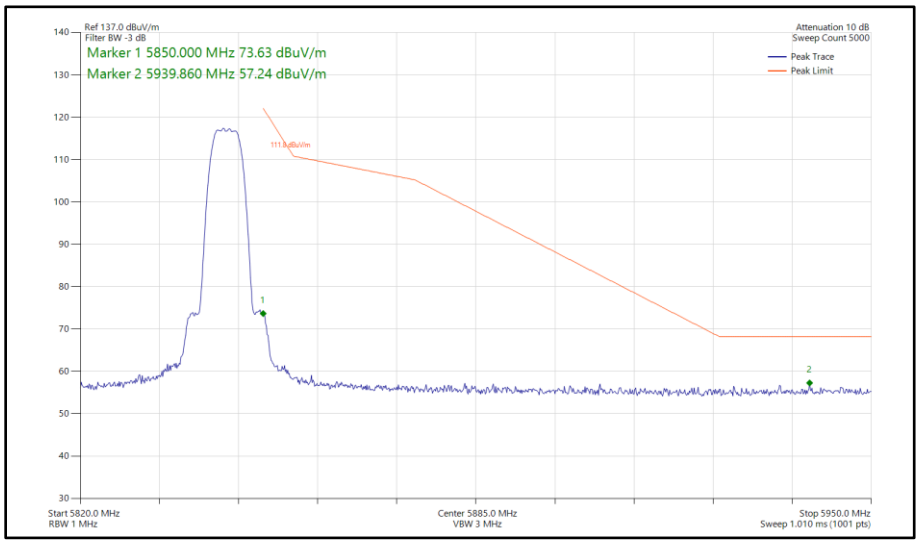

Figure 191 - Bluetooth HDR8, SISO, Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

ePA - Core 0 - Core 1 (MIMO)

Mode	Packet Type	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBµV/m)
Static	HDR4	5733	5725	57.72
Static	HDR8	5733	5725	57.43
Static	HDR4	5844	5850	57.27
Static	HDR8	5844	5850	56.88

Table 118 - MIMO Authorised Band Edge Results

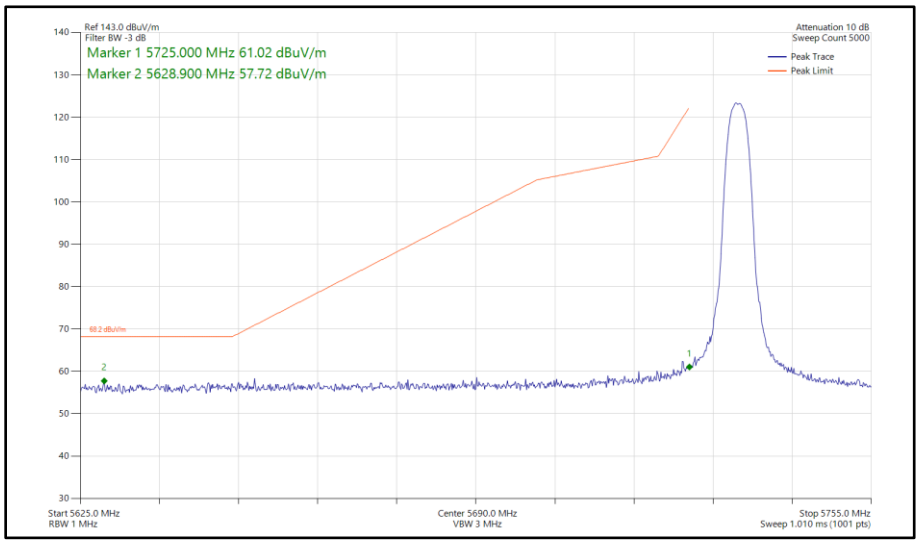

Figure 192 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

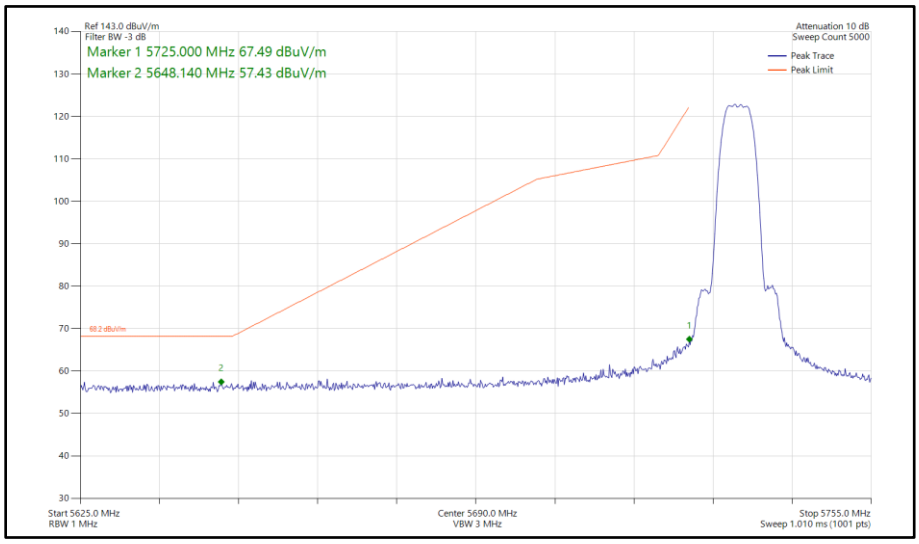

Figure 193 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5733 MHz Band Edge Frequency 5725 MHz

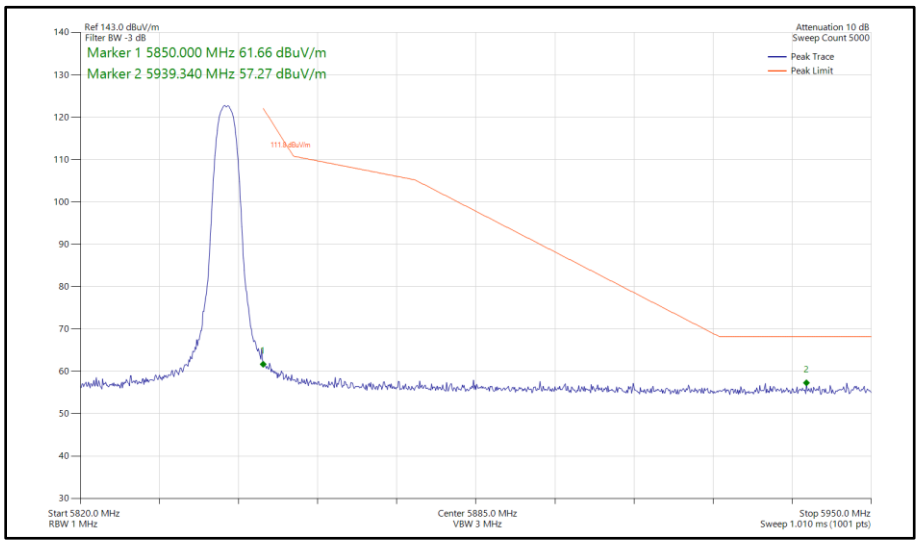

Figure 194 - Bluetooth HDR4, MIMO, Core 0 - Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

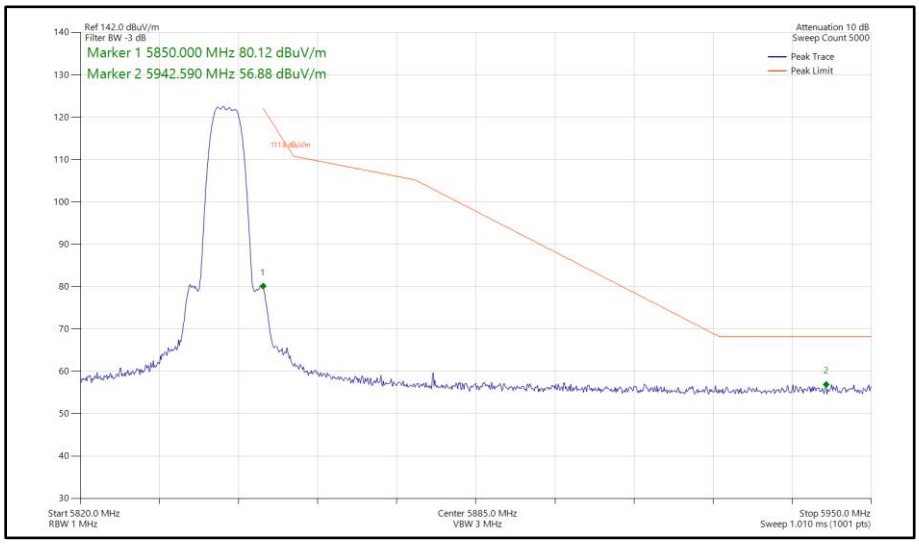

Figure 195 - Bluetooth HDR8, MIMO, Core 0 - Core 1 - 5844 MHz Band Edge Frequency 5850 MHz

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating in the 5.15-5.25 GHz band: ≤-27 dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band: ≤-27 dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band: ≤-27 dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

ISED RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2, 6.2.4.2 and 6.2.5.3

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;

b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;

c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and

d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

For the 5895 MHz band edge and above, all devices shall be measured using average detection and shall comply with the following e.i.r.p. spectral density limits:

Fixed outdoor access points and fixed outdoor client devices shall not exceed -27 dBm/MHz e.i.r.p. spectral density at or above the 5895 MHz band edge.

Indoor access points or indoor subordinate devices shall not exceed 15 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -7 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

Client devices shall not exceed -5 dBm/MHz e.i.r.p. spectral density at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz e.i.r.p. spectral density at or above 5925 MHz.

2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 16.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.4.2	5125	-	Software
Cable 2.92m	Junkosha	MWX241-01000KMS	5413	12	23-May-2025
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	07-Aug-2025
1500W (300V 12A) AC Power Supply	iTech	IT7324	5957	-	O/P Mon
3m Semi-Anechoic Chamber, Chamber16	Albatross Projects	RF Chamber 16	5972	36	24-May-2025
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5973	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5974	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5975	-	TU
WR15 Attenuator	Eravant	STA 30 15 M1	6125	-	O/P Mon
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	05-May-2025
Digital Multimeter	Fluke	115	6147	12	06-Jun-2025
USB Spectrum Analyser	Signal Hound	SA124B	6383	-	TU
10dB attenuator	RF-Lambda	RFS5G08B10SMF	6732	12	07-Jan-2025
Preamplifier	Hewlett Packard	HP8449B	6762	12	28-Feb-2025
8M SMA Cable	Junkosha	MWX221-08000AMSAMS/B	6833	12	14-Aug-2025
Handheld Hygrometer	Fluke	971	6838	12	27-Aug-2025
Cable Assembly	SpecTech	PE300-60	6857	-	TU
Cable Assembly	SpecTech	PE300-60	6858	-	TU

Table 119

TU - Traceability Unscheduled
O/P Mon - Output Monitored using calibrated equipment

2.6 Spurious Radiated Emissions

2.6.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.209 and 15.407 (b)
ISED RSS-247, Clause 6.2
ISED RSS-GEN, Clause 6.13 and 8.9

2.6.2 Equipment Under Test and Modification State

A3241, S/N: DT7LYX5QXT - Modification State 0
A3241, S/N: K2K9N270NG - Modification State 0

2.6.3 Date of Test

10-October-2024 to 01-November-2024

2.6.4 Test Method

Testing was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

Ports on the EUT were terminated with loads as described in ANSI C63.10 clause 6.2.3.

Measurements were undertaken from 30 MHz to 40 GHz on Channel 5203 MHz and Channel 5788 MHz.

For the purpose of this testing, spurious emissions were limited to 1 GHz to 40 GHz on all other test channels.

The plots shown are the characterization of the EUT. The limits on the plots represent the most stringent case for restricted bands, (54/74 dBuV/m @ 3 m and 64/84 dBuV/m @ 1m) when compared to -27 dBm/MHz EIRP outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBµV/m to µV/m:
10^(Field Strength in dBµV/m/20).

EIRP was converted to field strength at 3m using the following formula:
Field Strength (dBµV/m at 3 m) = EIRP (dBm) + 95.2 dB

2.6.5 Test Setup Diagram

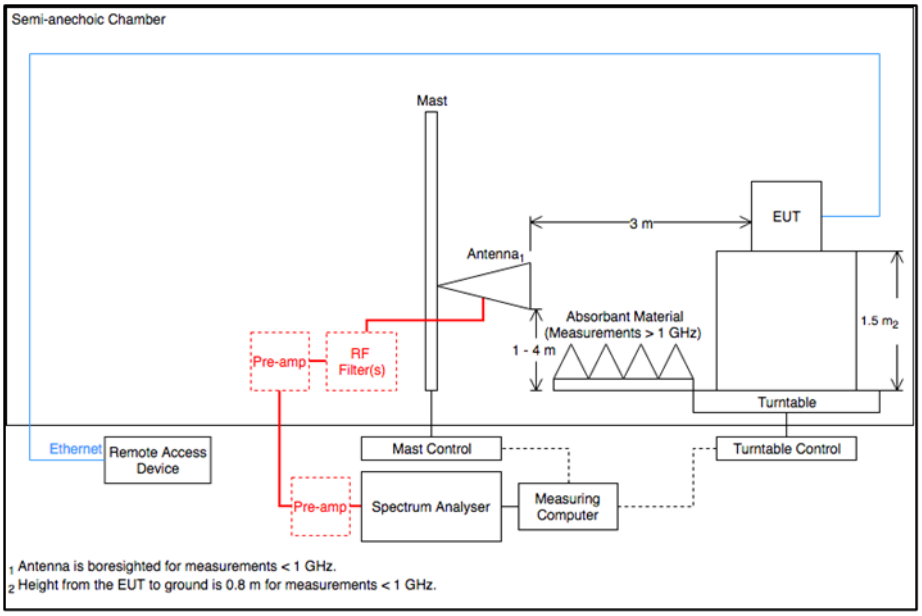

Figure 196 - Radiated Emissions Test Setup Diagram

2.6.6 Environmental Conditions

Ambient Temperature	22.3 - 23.0 °C
Relative Humidity	44.6 - 48.3 %

2.6.7 Test Results

Narrowband

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4731.845	39.25	54.00	-14.75	RMS	4	340	Vertical
5119.821	36.40	54.00	-17.60	RMS	108	188	Horizontal
5401.700	36.77	54.00	-17.23	RMS	336	141	Vertical
5424.002	36.68	54.00	-17.32	RMS	31	290	Horizontal
5592.390	48.96	68.20	-19.24	Peak	24	238	Vertical

Table 120 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

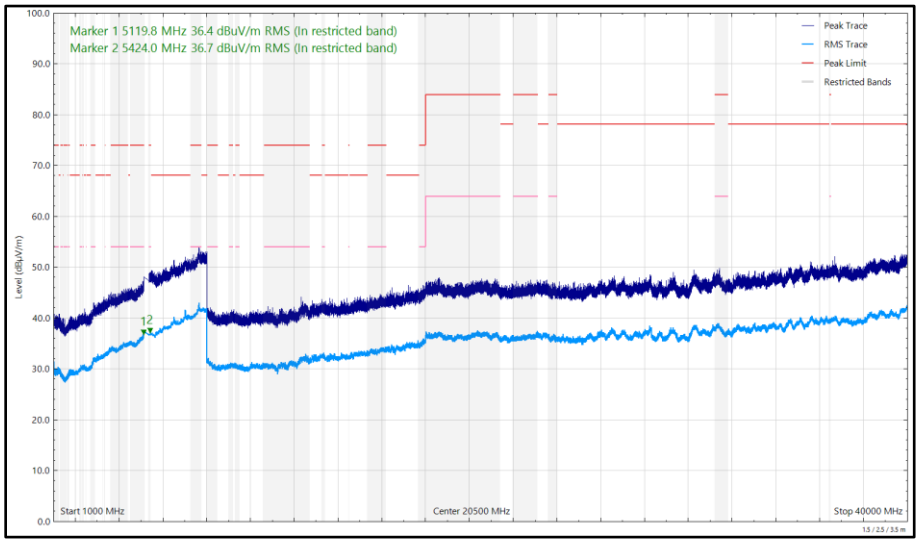

Figure 197 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

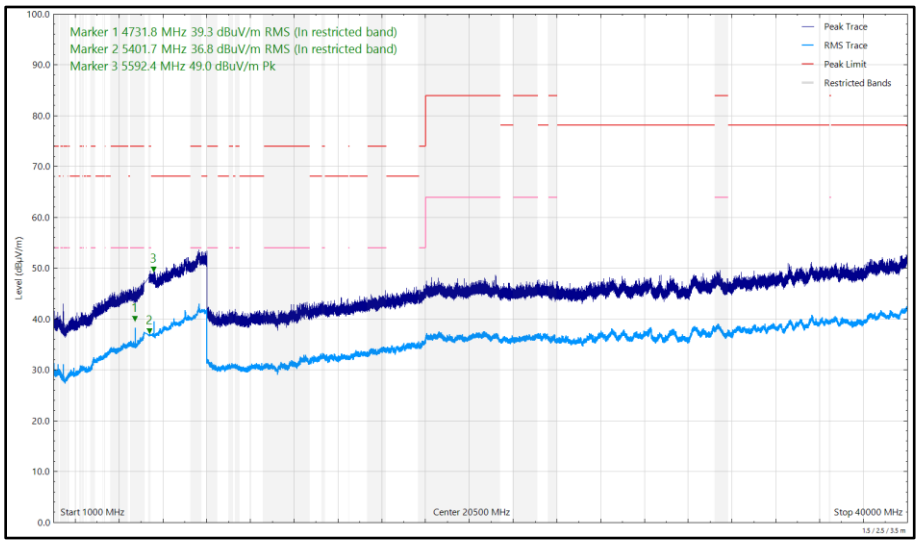

Figure 198 - 5162 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
36.270	34.05	40.00	-5.95	Q-Peak	17	105	Vertical
97.685	34.50	43.50	-9.00	Q-Peak	180	308	Horizontal
100.943	35.36	43.50	-8.14	Q-Peak	46	100	Vertical
123.081	34.17	43.50	-9.33	Q-Peak	96	103	Vertical
123.115	26.84	43.50	-16.66	Q-Peak	0	278	Horizontal
172.717	28.06	43.50	-15.44	Q-Peak	171	100	Vertical
172.984	26.19	43.50	-17.31	Q-Peak	227	250	Horizontal
269.305	29.02	46.00	-16.98	Q-Peak	173	116	Horizontal
4769.315	34.00	54.00	-20.00	RMS	312	144	Vertical
5147.332	35.23	54.00	-18.77	RMS	316	186	Horizontal
5425.172	36.69	54.00	-17.31	RMS	108	259	Horizontal
5442.780	36.73	54.00	-17.27	RMS	54	296	Vertical
5480.693	48.74	68.20	-19.46	Peak	30	345	Vertical
5497.505	48.48	68.20	-19.72	Peak	303	359	Horizontal

Table 121 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

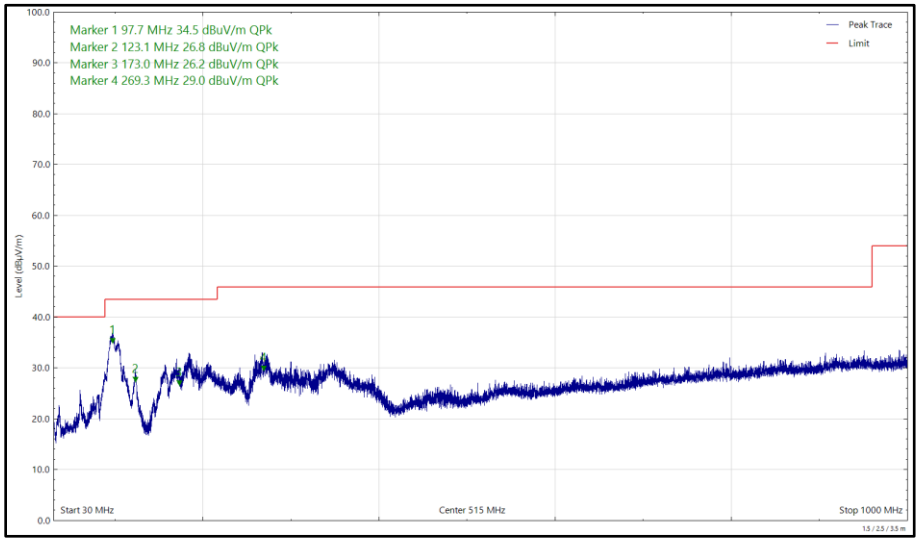

Figure 199 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

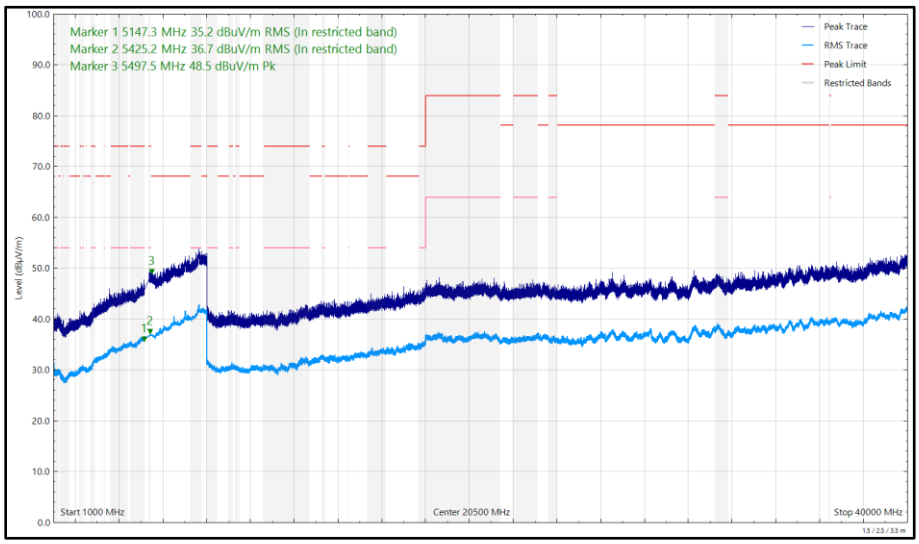

Figure 200 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

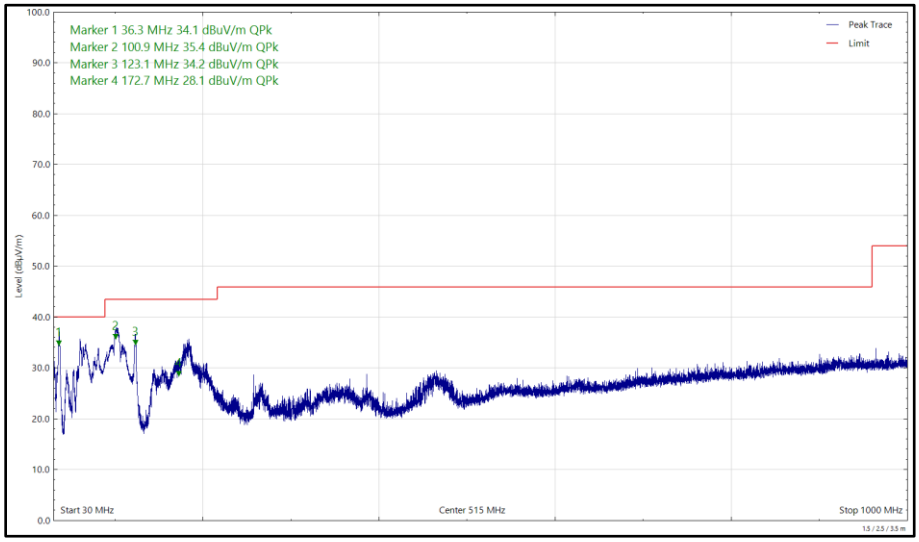

Figure 201 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

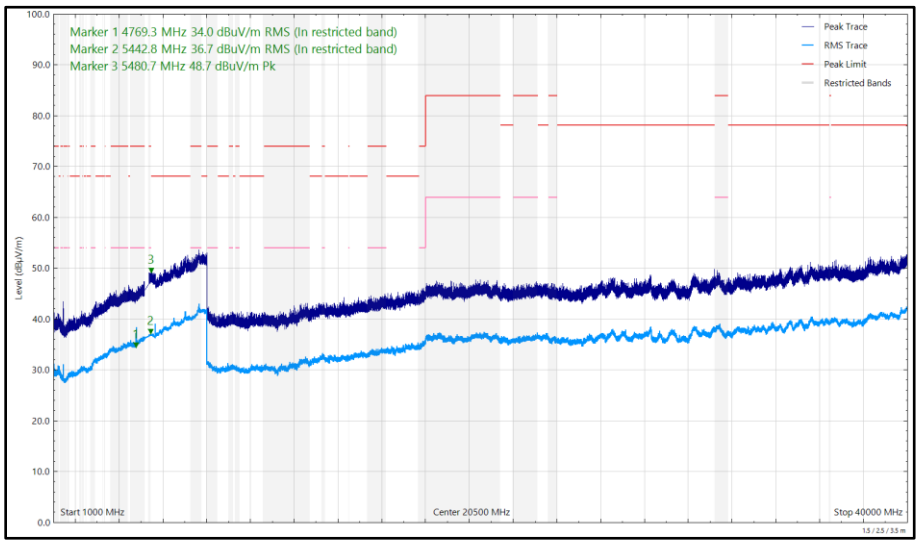

Figure 202 - 5203 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4807.920	40.81	54.00	-13.19	RMS	4	330	Vertical
5147.335	35.17	54.00	-18.83	RMS	187	110	Horizontal
5413.921	36.60	54.00	-17.40	RMS	128	162	Horizontal
5432.194	36.63	54.00	-17.37	RMS	111	275	Vertical

Table 122 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

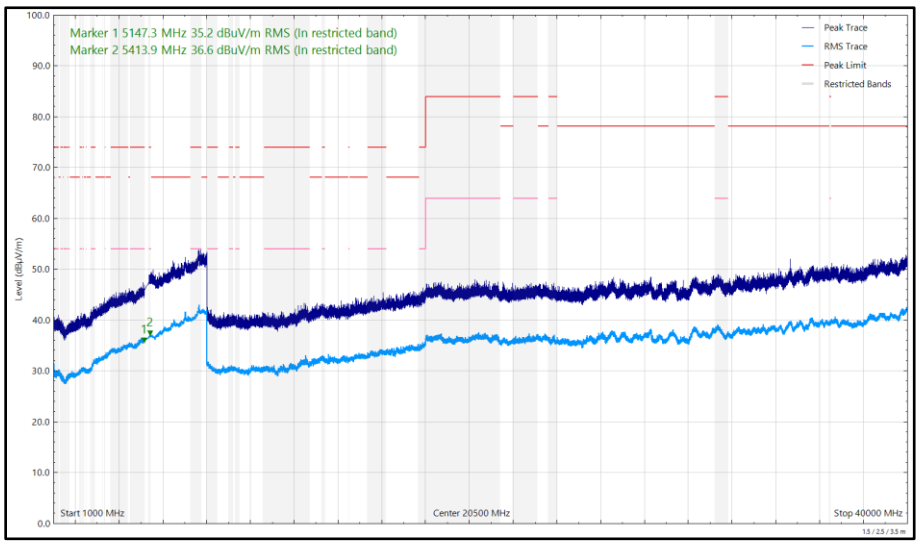

Figure 203 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

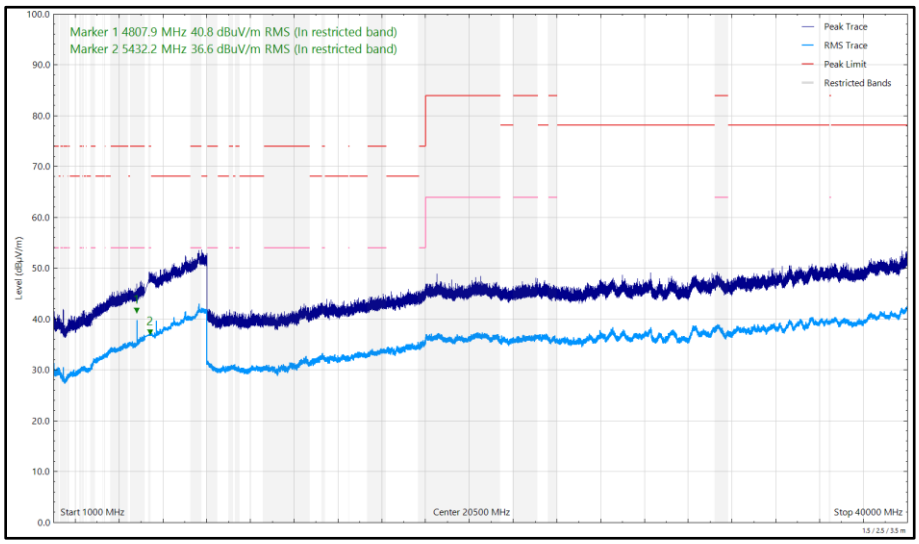

Figure 204 - 5245 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
4100.785	39.03	54.00	-14.97	RMS	341	278	Vertical
4971.587	34.70	54.00	-19.30	RMS	118	379	Horizontal
5409.733	36.32	54.00	-17.68	RMS	114	339	Vertical
5432.766	36.45	54.00	-17.55	RMS	145	217	Horizontal
5713.988	51.68	68.20	-16.52	Peak	343	347	Vertical
5714.128	51.22	68.20	-16.98	Peak	108	296	Horizontal
5886.217	49.69	68.20	-18.51	Peak	243	400	Vertical
11466.015	34.94	54.00	-19.06	RMS	17	252	Vertical

Table 123 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

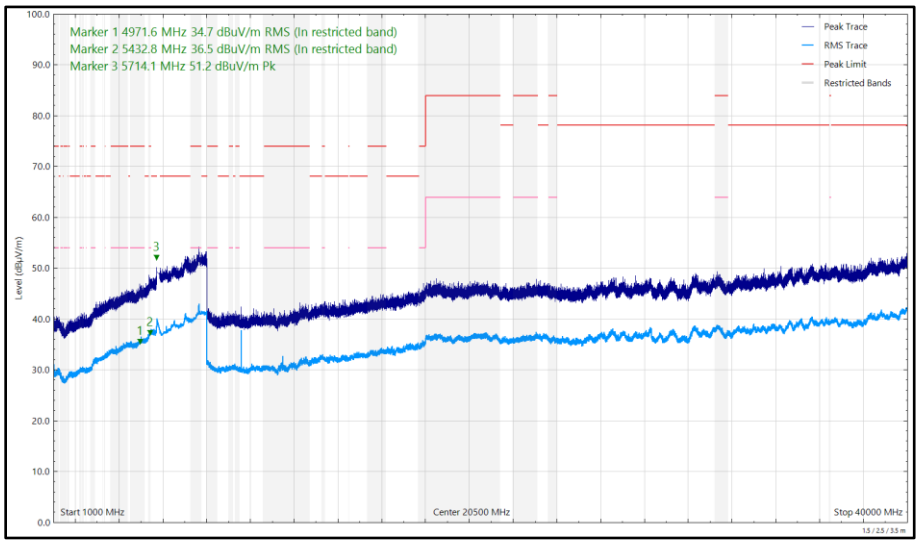

Figure 205 - 5733 MHz, DH5, iPA, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal