

RF Exposure Exemption Report

Apple Inc
Model: A3593



Add value.
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In accordance with FCC CFR 47 Part 1.1307

Prepared for: Apple Inc
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SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Matthew Russell	Chief Engineer, RF	Authorised Signatory	28 September 2026

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD document control rules.

FCC Accreditation
294497/UK2010 Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

The wireless devices described within this report are compliant with the exemption criteria related to human exposure to electromagnetic fields laid out in FCC CFR Title 47 Part 1.1307 at a minimum separation distance of 201mm



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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	28 September 2026

Table 1

1.2 Introduction

Applicant	Apple Inc
Manufacturer	Apple Inc
Model Number(s)	A3593
Hardware Version(s)	REV1.0
Specification/Issue/Date	FCC 47 CFR Part 1.1307: 2025
Related Document(s)	• KDB 447498 D04 v01 • FCC 47 CFR Part 2.1091: 2025



1.3 Brief Summary of Results

The wireless devices described within this report are compliant with the exemption criteria related to human exposure to electromagnetic fields laid out in FCC CFR Title 47 Part 1.1307.

The calculations shown in this report were made in accordance with the procedures specified in the applied test specification(s).

The calculations shown in this report were made in accordance with the procedures specified in the applied test specification(s).



1.4 Application Form

1.5 Product Information

1.5.1 Technical Description

The equipment under test (EUT) was a TV Set Top Box.

1.5.2 Transmitter Description

The following radio access technologies and frequency bands are supported by the equipment under test.

Radio Access Technology	Frequency Band (MHz)	Minimum Frequency (MHz)	Conducted Output Power (dBm)	Duty Cycle (%)
Bluetooth (SISO) Core 0	2400-2483.5	2402	20.00	100
Bluetooth (SISO) Core 1	2400-2483.5	2402	20.00	100
Bluetooth (SISO) Core 2	2400-2483.5	2402	13.00	100
Bluetooth (2x2 MIMO) Core 0 and Core 1	2400-2483.5	2402	20.00	100
Thread (SISO) Core 3	2400-2483.5	2405	17.00	100
2.4 GHz WLAN (SISO) Core 0	2400-2483.5	2412	20.50	100
2.4 GHz WLAN (SISO) Core 1	2400-2483.5	2412	22.00	100
2.4 GHz WLAN (2x2 MIMO) Core 0 and Core 1	2400-2483.5	2412	23.50	100
5 GHz WLAN (SISO) Core 0	5150-5850	5180	20.50	100
5 GHz WLAN (SISO) Core 1	5150-5850	5180	20.50	100
5 GHz WLAN (2x2 MIMO) Core 0 and Core 1	5150-5850	5180	23.50	100
6 GHz WLAN (SISO) Core 0	5925-7125	5955	19.50	100
6 GHz WLAN (SISO) Core 1	5925-7125	5955	19.50	100
6 GHz WLAN (2x2 MIMO) Core 0 and Core 1	5925-7125	5955	22.50	100
Narrowband U-NII-1 Core 0	5150-5250	5162	13.00	100
Narrowband U-NII-1 Core 1	5150-5250	5162	13.00	100
Narrowband U-NII-1 Core 0 and Core 1	5150-5250	5162	16.00	100
Narrowband U-NII-3 Core 0	5725-5850	5733	19.00	100
Narrowband U-NII-3 Core 1	5725-5850	5733	19.00	100
Narrowband U-NII-3 Core 0 and Core 1	5725-5850	5733	22.00	100
Narrowband U-NII-5 Core 0	5925-6425	6106	0.00	100
Narrowband U-NII-5 Core 1	5925-6425	6106	-1.50	100
Narrowband U-NII-5 Core 0 and Core 1	5925-6425	6106	-3.75	100

Table 2 - Transmitter Description - FCC

Note: Transmitter power includes upper bounds of uncertainty therefore maximum values are used.



1.5.3 Antenna Description

The following antennas are supported by the equipment under test.

Radio Access Technology	Antenna Model	Frequency Band (MHz)	Gain (dBi)	Minimum Separation Distance (cm)
Bluetooth / 2.4 GHz WLAN – Core 0	IFA	2400-2483.5	-1.1	20.1
Bluetooth / 2.4 GHz WLAN – Core 1	IFA	2400-2483.5	0.3	20.1
Bluetooth / 2.4 GHz WLAN – Core 2	IFA	2400-2483.5	1.2	20.1
Thread Core 3	IFA	2400-2483.5	0.8	20.1
5 GHz WLAN – Core 0	IFA	5150-5850	1.5	20.1
5 GHz WLAN – Core 1	IFA	5150-5850	3.8	20.1
6 GHz WLAN – Core 0	IFA	5925-7125	1.7	20.1
6 GHz WLAN – Core 1	IFA	5925-7125	3.1	20.1
NB UNII-1 Core 0	IFA	5150-5250	0.6	20.1
NB UNII-1 Core 1	IFA	5150-5250	2.9	20.1
NB UNII-3 Core 0	IFA	5725-5850	1.4	20.1
NB UNII-3 Core 1	IFA	5725-5850	3.8	20.1
NB UNII-5 Core 0	IFA	5925-6425	1.7	20.1
NB UNII-5 Core 1	IFA	5925-6425	3.8	20.1

Table 3 - Antenna Description

In the case of more than one type of antenna being supported by the equipment, the calculation is based on the maximum of the antenna gains. If other antennas can be used that have greater gains, the minimum separation distances will need to be recalculated.

Note: Antenna gain includes upper bounds of uncertainty therefore maximum values are used.



1.5.4 Equipment Configuration

The device supports the following modes:-

- Bluetooth can operate in SISO modes on Core 0, 1, 2 & MIMO modes on Core 0 & 1
- Thread can operate in SISO mode on Core 3
- WLAN can operate in SISO modes on Core 0, 1 & MIMO modes on Core 0 & 1
- NB can operate in SISO modes on Core 0, 1 & MIMO modes on Core 0 & 1

The device supports simultaneous operation in the following modes:

- Bluetooth and 2.4 GHz / 5 GHz / 6 GHz WLAN
- NB and 2.4 GHz WLAN
- Thread and 5 GHz / 6 GHz WLAN
- Bluetooth / Thread and NB
- Bluetooth and NB and 2.4 GHz WLAN
- Bluetooth and Thread
- Bluetooth and NB and Thread
- Bluetooth and Thread and 5 GHz / 6 GHz WLAN

Worst case configurations for simultaneous transmission were identified as;

Combination 1

- Bluetooth (2x2 (MIMO) Core 0 and Core 1 + 5 GHz WLAN (2x2 MIMO) Core 0 and Core 1

Combination 2

- 2.4 GHz WLAN (2x2 MIMO) Core 0 and Core 1 + Narrowband U-NII-3 Core 0 and Core 1

Combination 3

- Thread (SISO) Core 3 + 5 GHz WLAN (2x2 MIMO) Core 0 and Core 1

Combination 4

- Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Narrowband U-NII-3 Core 0 and Core 1

Combination 5

- Bluetooth (SISO) Core 2 + 2.4 GHz WLAN (2x2 MIMO) Core 0 and Core 1 + Narrowband U-NII-3 Core 0 and Core 1

Combination 6

- Thread (SISO) Core 3 + Narrowband U-NII-3 Core 0 and Core 1

Combination 7

- Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Thread (SISO) Core 3

Combination 8

- Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Thread (SISO) Core 3 + Narrowband U-NII-3 Core 0 and Core 1

Combination 9

- Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Thread (SISO) Core 3 + 5 GHz WLAN (SISO) Core 0

Combination 10

- Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Thread (SISO) Core 3 + 6 GHz WLAN (MIMO) Core 0 and Core 1



1.6 Test Location

TÜV SÜD conducted the following tests at our Octagon House Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation
Exposure Assessment	Steve Marshall	UKAS

Table 4

Office Address:

TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire
PO15 5RL
United Kingdom



2 Assessment Details

2.1 Single RF Source Options for Determination of Exemption

Option	Reference	RF Exposure Test Exemptions for Single Source												
A (1-mW Test Exemption)	FCC 1.1307(b)(3)(i)(A)	The available maximum time averaged power is no more than 1 mW, regardless of separation distance.												
B (SAR-Based Exemption)	FCC 1.1307(b)(3)(i)(B)	The available maximum timeaveraged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by: $P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$ Where $x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$ and $ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$ <i>d</i> = the separation distance (cm);												
C (MPE-Based Exemption)	FCC 1.1307(b)(3)(i)(C)	Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least λ/2π, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ/4 or if the antenna gain is less than that of a half-wave dipole (1.64 linear value). TABLE 1 TO § 1.1307(b)(3)(i)(C)—SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION <table><tr><th>RF Source frequency (MHz)</th><th>Threshold ERP (watts)</th></tr><tr><td>0.3–1.34</td><td>1,920 R².</td></tr><tr><td>1.34–30</td><td>3,450 R²/f².</td></tr><tr><td>30–300</td><td>3.83 R².</td></tr><tr><td>300–1,500</td><td>0.0128 R²f.</td></tr><tr><td>1,500–100,000</td><td>19.2R².</td></tr></table>	RF Source frequency (MHz)	Threshold ERP (watts)	0.3–1.34	1,920 R ² .	1.34–30	3,450 R ² /f ² .	30–300	3.83 R ² .	300–1,500	0.0128 R ² f.	1,500–100,000	19.2R ² .
RF Source frequency (MHz)	Threshold ERP (watts)													
0.3–1.34	1,920 R ² .													
1.34–30	3,450 R ² /f ² .													
30–300	3.83 R ² .													
300–1,500	0.0128 R ² f.													
1,500–100,000	19.2R ² .													

Table 5



2.2 Multiple RF Sources Options for Determination of Exemption

Option	Reference	
A 1-mW Test Exemption for Multiple Sources	FCC 1.1307(b)(3)(ii)(A)	The available maximum time averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
B Simultaneous Transmission with both SAR-based and MPE- Based Test Exemptions	FCC 1.1307(b)(3)(ii)(B)	In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation. $\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$

Table 6



2.3 Individual Antenna Port Exposure Results

2.3.1 Single Source Calculation of Exposure at Specified Separation Distance FCC 1.1307(b)(3)(i)(B) 'Option B' (SAR Based Exemption)

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Minimum Antenna to User Separation Distance (mm)	Pth (mW) 1.1307 (b)(3)(i)(B)	Greater of Max time averaged conducted power or ERP? mW	1.1307(b)(3)(i)(B) Exemption (Yes/No) (300 MHz to 6 GHz, 0.5 cm to 40 cm)
Bluetooth (SISO) Core 0	2402	100.00	100	100.00	0.78	77.62	47.33	201	3060.0	100.00	Yes
Bluetooth (SISO) Core 1	2402	100.00	100	100.00	1.07	107.15	65.34	201	3060.0	100.00	Yes
Bluetooth (SISO) Core 2	2402	19.95	100	19.95	1.32	26.30	16.04	201	3060.0	19.95	Yes
Bluetooth (2x2 MIMO) Core 0 and Core 1	2402	100.00	100	100.00	1.07	107.15	65.34	201	3060.0	100.00	Yes
Thread (SISO) Core 3	2405	50.12	100	50.12	1.20	60.26	36.74	201	3060.0	50.12	Yes
2.4 GHz WLAN (SISO) Core 0	2412	112.20	100	112.20	0.78	87.10	53.11	201	3060.0	112.20	Yes
2.4 GHz WLAN (SISO) Core 1	2412	158.49	100	158.49	1.07	169.82	103.55	201	3060.0	158.49	Yes
2.4 GHz WLAN (2x2 MIMO) Core 0 and Core 1	2412	223.87	100	223.87	1.07	239.88	146.27	201	3060.0	223.87	Yes
5 GHz WLAN (SISO) Core 0	5180	112.20	100	112.20	1.41	158.49	96.64	201	3060.0	112.20	Yes
5 GHz WLAN (SISO) Core 1	5180	112.20	100	112.20	2.40	269.15	164.12	201	3060.0	164.12	Yes
5 GHz WLAN (2x2 MIMO) Core 0 and Core 1	5180	223.87	100	223.87	2.40	537.03	327.46	201	3060.0	327.46	Yes



RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Minimum Antenna to User Separation Distance (mm)	Pth (mW) 1.1307 (b)(3)(i)(B)	Greater of Max time averaged conducted power or ERP? mW	1.1307(b)(3)(i)(B) Exemption (Yes/No) (300 MHz to 6 GHz, 0.5 cm to 40 cm)
Narrowband U-NII-1 Core 0	5162	19.95	100	19.95	1.15	22.91	13.97	201	3060.0	19.95	Yes
Narrowband U-NII-1 Core 1	5162	19.95	100	19.95	1.95	38.90	23.72	201	3060.0	23.72	Yes
Narrowband U-NII-1 Core 0 and Core 1	5162	39.81	100	39.81	1.95	77.62	47.33	201	3060.0	47.33	Yes
Narrowband U-NII-3 Core 0	5733	79.43	100	79.43	1.38	109.65	66.86	201	3060.0	79.43	Yes
Narrowband U-NII-3 Core 1	5733	79.43	100	79.43	2.40	190.55	116.19	201	3060.0	116.19	Yes
Narrowband U-NII-3 Core 0 and Core 1	5733	158.49	100	158.49	2.40	380.19	231.82	201	3060.0	231.82	Yes

Table 7 - Transmitter Result

The calculations show that the individual transmitters comply with FCC 1.1307(b)(3)(i)(B) SAR-based exemption at a minimum distance of 201 mm.



2.3.2 Single Source Calculation of Exposure at Specified Separation Distance FCC 1.1307(b)(3)(i)(C) 'Option C' (MPE Based Exemption)

RAT	Frequency (MHz)	Conducted Power Output (mW)	Duty Cycle %	Time Average Conducted Power Output (mW)	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Minimum separation distance for MPE evaluation $\lambda/2$ π mm	Actual Distance (mm)	Threshold ERP (mW)	1.1307(b)(3)(i)(C) Exemption (Yes/No) (300 kHz to 100 GHz)
6 GHz WLAN (SISO) Core 0	5955	89.13	100	89.13	1.48	131.83	80.38	8.02	201	775.70	Yes
6 GHz WLAN (SISO) Core 1	5955	89.13	100	89.13	2.04	181.97	110.96	8.02	201	775.70	Yes
6 GHz WLAN (2x2 MIMO) Core 0 and Core 1	5955	177.83	100	177.83	2.04	363.08	221.39	8.02	201	775.70	Yes
Narrowband U-NII-5 Core 0	6106	1.00	100	1.00	1.48	1.48	0.90	7.82	201	775.70	Yes
Narrowband U-NII-5 Core 1	6106	0.71	100	0.71	2.40	1.70	1.04	7.82	201	775.70	Yes
Narrowband U-NII-5 Core 0 and Core 1	6106	0.42	100	0.42	2.40	1.01	0.62	7.82	201	775.70	Yes

Table 8 - Transmitter Result

The calculations show that the individual transmitters comply with FCC 1.1307(b)(3)(i)(C) MPE-based exception at a minimum distance of 201 mm.



2.4 Combined Antenna Port RF Exposure Results FCC 1.1307(b)(3)(ii)(B)

2.4.1 Combination 1 - Option B Summation, Bluetooth (2x2 (MIMO) Core 0 and Core 1 + 5 GHz WLAN (2x2 MIMO) Core 0 and Core 1

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERPj / ERPth,j <or> Pi / Pth	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Bluetooth (2x2 (MIMO) Core 0 and Core 1	2402	100.00	100	100.00	0.3	107.15	65.34	201	0.03268	
5 GHz WLAN (2x2 MIMO) Core 0 and Core 1	5180	223.87	100	223.87	3.8	537.03	327.46	201	0.10701	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.13969	Yes

Table 9 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption.



2.4.2 Combination 2 - Option B Summation, 2.4 GHz WLAN (2x2 MIMO) Core 0 and Core 1 + Narrowband U-NII-3 Core 0 and Core 1

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERP _j / ERP _{th,j} <or> P _i / P _{th}	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
2.4 GHz WLAN (2x2 MIMO) Core 0 and Core 1	2412	223.87	100	223.87	1.07	239.88	146.27	201	0.07316	
Narrowband U-NII-3 Core 0 and Core 1	5733	158.49	100	158.49	2.40	380.19	231.82	201	0.07576	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.14892	Yes

Table 10 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption



2.4.3 Combination 3 - Option B Summation, Thread (SISO) Core 3 + 5 GHz WLAN (2x2 MIMO) Core 0 and Core 1

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERPj / ERPth,j <or> Pi / Pth	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Thread (SISO) Core 3	2405	50.12	100	50.12	1.20	60.26	36.74	201	0.01638	
5 GHz WLAN (2x2 MIMO) Core 0 and Core 1	5180	223.87	100	223.87	2.40	537.03	327.46	201	0.10701	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.12339	Yes

Table 11 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption



2.4.4 Combination 4 - Option B Summation, Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Narrowband U-NII-3 Core 0 and Core 1

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERP _j / ERP _{th,j} <or> P _i / P _{th}	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Bluetooth (2x2 (MIMO) Core 0 and Core 1	2402	100.00	100	100.00	1.07	107.15	65.34	201	0.03268	
Narrowband U-NII-3 Core 0 and Core 1	5733	158.49	100	158.49	2.40	380.19	231.82	201	0.07576	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.10844	Yes

Table 12 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption



2.4.5 Combination 5 - Option B Summation, Bluetooth (SISO) Core 2 + 2.4 GHz WLAN (2x2 MIMO) Core 0 and Core 1 + Narrowband U-NII-3 Core 0 and Core 1

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERP _j / ERP _{th,j} <or> P _i / P _{th}	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Bluetooth (SISO) Core 2	2402	19.95	100	19.95	1.32	26.30	16.04	201	0.00652	
2.4 GHz WLAN (2x2 MIMO) Core 0 and Core 1	2412	223.87	100	223.87	1.07	239.88	146.27	201	0.07316	
Narrowband U-NII-3 Core 0 and Core 1	5733	158.49	100	158.49	2.40	380.19	231.82	201	0.07576	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.15544	Yes

Table 13 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption



2.4.6 Combination 6 - Option B Summation, Thread (SISO) Core 3 + Narrowband U-NII-3 Core 0 and Core 1

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERP _j / ERP _{th,j} <or> P _i / P _{th}	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Thread (SISO) Core 3	2405	50.12	100	50.12	1.20	60.26	36.74	201	0.01638	
Narrowband U-NII-3 Core 0 and Core 1	5733	158.49	100	158.49	2.40	380.19	231.82	201	0.07576	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.09214	Yes

Table 14 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption



2.4.7 Combination 7 - Option B Summation, Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Thread (SISO) Core 3

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERPj / ERPth,j <or> Pi / Pth	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Bluetooth (2x2 (MIMO) Core 0 and Core 1	2402	100.00	100	100.00	1.07	107.15	65.34	201	0.03268	
Thread (SISO) Core 3	2405	50.12	100	50.12	1.20	60.26	36.74	201	0.01638	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.04906	Yes

Table 15 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption



2.4.8 Combination 8 - Option B Summation, Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Thread (SISO) Core 3 + Narrowband U-NII-3 Core 0 and Core 1

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERP _j / ERP _{th,j} <or> P _i / P _{th}	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Bluetooth (2x2 (MIMO) Core 0 and Core 1	2402	100.00	100	100.00	1.07	107.15	65.34	201	0.03268	
Thread (SISO) Core 3	2405	50.12	100	50.12	1.20	60.26	36.74	201	0.01638	
Narrowband U-NII-3 Core 0 and Core 1	5733	158.49	100	158.49	2.40	380.19	231.82	201	0.07576	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.12482	Yes

Table 16 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption



2.4.9 Combination 9 - Option B Summation, Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Thread (SISO) Core 3 + 5 GHz WLAN (SISO) Core 0

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERP _j / ERP _{th,j} <or> P _i / P _{th}	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Bluetooth (2x2 (MIMO) Core 0 and Core 1	2402	100.00	100	100.00	1.07	107.15	65.34	201	0.03268	
Thread (SISO) Core 3	2405	50.12	100	50.12	1.20	60.26	36.74	201	0.01638	
5 GHz WLAN (SISO) Core 0	5180	112.20	100	112.20	1.41	158.49	96.64	201	0.03667	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.08573	Yes

Table 17 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption



2.4.10 Combination 10 - Option C Summation, Bluetooth (2x2 (MIMO) Core 0 and Core 1 + Thread (SISO) Core 3 + 6 GHz WLAN (MIMO) Core 0 and Core 1

RAT	Frequency (MHz)	Conducted Power Output mW	Duty Cycle %	Time Average Conducted Power Output mW	Antenna Gain Ratio	Maximum Power (EIRP) mW	Maximum Power (ERP) mW	Test Separation Distance (mm)	ERP _j / ERP _{th,j} <or> P _i / P _{th}	Sum of the fractional contributions to the applicable thresholds is less than or equal to 1. Compliant? (Yes/No)
Bluetooth (2x2 (MIMO) Core 0 and Core 1	2402	100.00	100	100.00	1.07	107.15	65.34	201	0.08423	
Thread (SISO) Core 3	2405	50.12	100	50.12	1.20	60.26	36.74	201	0.04737	
6 GHz WLAN (MIMO) Core 0 and Core 1	5955	177.83	100	177.83	2.04	363.08	221.39	201	0.28541	
Calculated RF exposure level at minimum compliance boundary of 201 mm as a fraction of the limit									0.41700	Yes

Table 18 - Transmitter Result

The calculations show that the multiple transmitters comply with FCC 1.1307(b)(3)(ii)(B) summation-based exemption