

RF Exposure Compliance Screening Report

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PROJECT NUMBER: PUS58004583

REPORT DATE: October 1, 2026

TOTAL NUMBER OF PAGES: 26

FCC/ISED RF Exposure Exemption Screening

Generated: 2026-10-01 10:32 | Status: SCREEN PASSED

SCREEN PASSED

Based on the entered configuration and selected FCC/ISED screening workflow, the calculated total exposure ratio is at or below 1.0 for each selected regime (FCC: 0.333, ISED: 0.692). This indicates that the selected RF exposure exemption or routine-evaluation screening criterion is satisfied for the documented assumptions.

Assessment Summary

This report summarizes the RF exposure screening calculation performed by the local RF exposure assessment tool.

The result is based on the user-entered radio configuration, source-based time-averaged power basis, antenna gain, separation distance, and selected regulatory workflow.

Overall Result

Field	Value
Assessment region	FCC/ISED RF Exposure Exemption Screening
Workflow	Minimum common separation
Generated	2026-10-01 10:32
Software version	3.2.0
Overall screening status	SCREEN PASSED

Regime Summary

Regime	Workflow	Aggregate Screening Metric	Result
FCC	Regulatory threshold/interpolated minimum common separation calculation	0.333	Pass
ISED	Regulatory threshold/interpolated minimum common separation calculation	0.692	Pass

Minimum-Distance Decision

The minimum-distance workflow reports the applicable threshold, interpolated, or analytic distance decision rather than mechanically applying a fixed distance increment unless the selected method requires one.

Distance Decision

Field	Value
Method	FCC/ISED regulatory threshold and interpolated distance calculation
Distance condition	Distance > 20 cm (ISED mobile/FRL branch threshold where applicable).
Reported separation	20.000 cm
Evaluation separation	20.000 cm
Fixed increment required	No
Increment basis	No fixed 5 mm search increment was used. FCC P _{th} and Table 1 criteria are evaluated as continuous formulas. ISED RSS-102 Table 11 is evaluated using the entered/evaluated separation distance with permitted linear interpolation between tabulated distance points, while the ISED FRL branch is applied as a threshold condition for separation distance >20 cm.
FCC ratio at reported condition	0.333
ISED ratio at reported condition	0.692

Review Notes and Limitations

The following notes should be reviewed before using this screening result in a compliance report or supporting RF exposure documentation.

- LTE B2: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- LTE B2: tune-up/production tolerance is applied before duty-cycle averaging. Retain the tune-up range, rated-power, or production-control evidence supporting the 25.00 dBm pre-duty maximum.
- LTE B4: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- LTE B4: tune-up/production tolerance is applied before duty-cycle averaging. Retain the tune-up range, rated-power, or production-control evidence supporting the 25.00 dBm pre-duty maximum.
- LTE B5: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- LTE B5: tune-up/production tolerance is applied before duty-cycle averaging. Retain the tune-up range, rated-power, or production-control evidence supporting the 25.00 dBm pre-duty maximum.
- LTE B12: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.

- LTE B12: tune-up/production tolerance is applied before duty-cycle averaging. Retain the tune-up range, rated-power, or production-control evidence supporting the 25.00 dBm pre-duty maximum.
- LTE B13: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- LTE B13: tune-up/production tolerance is applied before duty-cycle averaging. Retain the tune-up range, rated-power, or production-control evidence supporting the 25.00 dBm pre-duty maximum.
- LTE B14: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- LTE B14: tune-up/production tolerance is applied before duty-cycle averaging. Retain the tune-up range, rated-power, or production-control evidence supporting the 25.00 dBm pre-duty maximum.
- LTE B66: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- LTE B66: tune-up/production tolerance is applied before duty-cycle averaging. Retain the tune-up range, rated-power, or production-control evidence supporting the 25.00 dBm pre-duty maximum.
- LTE B71: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- LTE B71: tune-up/production tolerance is applied before duty-cycle averaging. Retain the tune-up range, rated-power, or production-control evidence supporting the 25.00 dBm pre-duty maximum.
- 802.11b, 2.4 GHz: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- 802.11b, 2.4 GHz: measured conducted-power basis selected. The measured value plus tolerance is 17.80 dBm and is used as the pre-duty RF exposure power.
- 802.11b, 2.4 GHz: retain the conducted-power measurement result, measurement uncertainty or production-tolerance rationale, and evidence that the tolerance-adjusted value represents the maximum RF exposure power basis.
- 802.11g, 2.4 GHz: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- 802.11g, 2.4 GHz: measured conducted-power basis selected. The measured value plus tolerance is 16.80 dBm and is used as the pre-duty RF exposure power.

- 802.11g, 2.4 GHz: retain the conducted-power measurement result, measurement uncertainty or production-tolerance rationale, and evidence that the tolerance-adjusted value represents the maximum RF exposure power basis.
- 802.11n HT20, 2.4 GHz: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- 802.11n HT20, 2.4 GHz: measured conducted-power basis selected. The measured value plus tolerance is 17.00 dBm and is used as the pre-duty RF exposure power.
- 802.11n HT20, 2.4 GHz: retain the conducted-power measurement result, measurement uncertainty or production-tolerance rationale, and evidence that the tolerance-adjusted value represents the maximum RF exposure power basis.
- BLE, 2.4 GHz: FCC/ISED minimum-distance mode uses continuous FCC formulas, ISED Table 11 interpolation where applicable, and threshold conditions such as >20 cm for ISED FRL. It does not use a fixed 5 mm search step unless the legacy mode is selected.
- BLE, 2.4 GHz: measured conducted-power basis selected. The measured value plus tolerance is 7.70 dBm and is used as the pre-duty RF exposure power.
- BLE, 2.4 GHz: retain the conducted-power measurement result, measurement uncertainty or production-tolerance rationale, and evidence that the tolerance-adjusted value represents the maximum RF exposure power basis.

Power Calculation Basis

The tool first determines the final pre-duty source-conducted power from one of three distinct power bases: declared/tune-up maximum conducted power used directly, nominal conducted power plus tune-up or production tolerance, or measured conducted power plus tune-up or production tolerance. The declared/tune-up maximum method should be used when the entered value already represents the documented maximum RF exposure power.

Antenna feed/path loss is treated as documented cable, connector, switch, filter, matching-network, or insertion loss between the conducted-power reference plane and the antenna feed. The loss is subtracted from antenna gain for EIRP/ERP calculations.

FCC/ISED conducted-power screening quantities remain source-conducted and therefore conservative when a positive antenna path loss is entered; FCC/ISED EIRP/ERP quantities use the effective antenna gain after path loss.

RF Source Inputs

The table below records the input configuration used for each evaluated RF source. The maximum pre-duty power column represents the conducted power after any declared maximum or tune-up tolerance basis has been applied.

RF Source Input Matrix

Set	Source	Radio / Band / Channel	MHz	cm	Max Pre-Duty dBm	Duty	Avg dBm	Eff. Gain / EIRP (dBi/dBm)
Cellular - EG915Q -AF	LTE B2	LTE; Band 2 PCS; Low (1,850.7 MHz)	1850.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	6.44 / 31.44
Cellular - EG915Q -AF	LTE B4	LTE; Band 4 AWS-1; Low (1,710.7 MHz)	1710.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	6.44 / 31.44
Cellular - EG915Q -AF	LTE B5	LTE; Band 5 Cellular; Low (824.7 MHz)	824.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	3.99 / 28.99
Cellular - EG915Q -AF	LTE B12	LTE; Band 12 Lower 700; Low (699.7 MHz)	699.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	3.66 / 28.66
Cellular - EG915Q -AF	LTE B13	LTE; Band 13 Upper 700; Low (777.7 MHz)	777.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	3.66 / 28.66
Cellular - EG915Q -AF	LTE B14	LTE; Band 14 Public Safety 700; Low (788.7 MHz)	788.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	3.66 / 28.66
Cellular - EG915Q -AF	LTE B66	LTE; Band 66 AWS-3; Low (1,710.7 MHz)	1710.700	20.00	25.00	100% - No duty-cycle	25.00	6.44 / 31.44

Set	Source	Radio / Band / Channel	MHz	cm	Max Pre-Duty dBm	Duty	Avg dBm	Eff. Gain / EIRP (dBi/dBm)
						adjustment (100%)		
Cellular - EG915Q -AF	LTE B71	LTE; Band 71 600 MHz FDD; Low (663.7 MHz)	663.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	2.36 / 27.36
Wi-Fi & BLE - FC41D	802.11b, 2.4 GHz	WLAN 2.4 GHz; 802.11b/g/n/ax 2.4 GHz; Ch 1 (2,412 MHz)	2412.000	20.00	17.80	100% - No duty-cycle adjustment (100%)	17.80	2.00 / 19.80
Wi-Fi & BLE - FC41D	802.11g, 2.4 GHz	WLAN 2.4 GHz; 802.11b/g/n/ax 2.4 GHz; Ch 1 (2,412 MHz)	2412.000	20.00	16.80	100% - No duty-cycle adjustment (100%)	16.80	2.00 / 18.80
Wi-Fi & BLE - FC41D	802.11n HT20, 2.4 GHz	WLAN 2.4 GHz; 802.11b/g/n/ax 2.4 GHz; Ch 1 (2,412 MHz)	2412.000	20.00	17.00	100% - No duty-cycle adjustment (100%)	17.00	2.00 / 19.00
Wi-Fi & BLE - FC41D	BLE, 2.4 GHz	Bluetooth / BLE; Bluetooth LE; Adv Ch 37 (2,402 MHz)	2402.000	20.00	7.70	100% - No duty-cycle adjustment (100%)	7.70	2.00 / 9.70
Cellular - EG915Q -AF	LTE B2	LTE; Band 2 PCS; Low (1,850.7 MHz)	1850.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	6.44 / 31.44
Cellular - EG915Q -AF	LTE B4	LTE; Band 4 AWS-1; Low (1,710.7 MHz)	1710.700	20.00	25.00	100% - No duty-cycle adjustment (100%)	25.00	6.44 / 31.44
Cellular - EG915Q -AF	LTE B5	LTE; Band 5 Cellular; Low (824.7 MHz)	824.700	20.00	25.00	100% - No duty-	25.00	3.99 / 28.99

Set	Source	Radio / Band / Channel	MHz	cm	Max Pre- Duty dBm	Duty	Avg dBm	Eff. Gain / EIRP (dBi/dBm)
						cycle adjustm ent (100%)		
Cellular - EG915Q -AF	LTE B12	LTE; Band 12 Lower 700; Low (699.7 MHz)	699.70 0	20.0 0	25.00	100% - No duty- cycle adjustm ent (100%)	25.00	3.66 / 28.66
Cellular - EG915Q -AF	LTE B13	LTE; Band 13 Upper 700; Low (777.7 MHz)	777.70 0	20.0 0	25.00	100% - No duty- cycle adjustm ent (100%)	25.00	3.66 / 28.66
Cellular - EG915Q -AF	LTE B14	LTE; Band 14 Public Safety 700; Low (788.7 MHz)	788.70 0	20.0 0	25.00	100% - No duty- cycle adjustm ent (100%)	25.00	3.66 / 28.66
Cellular - EG915Q -AF	LTE B66	LTE; Band 66 AWS-3; Low (1,710.7 MHz)	1710.7 00	20.0 0	25.00	100% - No duty- cycle adjustm ent (100%)	25.00	6.44 / 31.44
Cellular - EG915Q -AF	LTE B71	LTE; Band 71 600 MHz FDD; Low (663.7 MHz)	663.70 0	20.0 0	25.00	100% - No duty- cycle adjustm ent (100%)	25.00	2.36 / 27.36
Wi-Fi & BLE - FC41D	802.11b, 2.4 GHz	WLAN 2.4 GHz; 802.11b/g/n/ax 2.4 GHz; Ch 1 (2,412 MHz)	2412.0 00	20.0 0	17.80	100% - No duty- cycle adjustm ent (100%)	17.80	2.00 / 19.80
Wi-Fi & BLE - FC41D	802.11g, 2.4 GHz	WLAN 2.4 GHz; 802.11b/g/n/ax 2.4 GHz; Ch 1 (2,412 MHz)	2412.0 00	20.0 0	16.80	100% - No duty- cycle adjustm ent (100%)	16.80	2.00 / 18.80

Set	Source	Radio / Band / Channel	MHz	cm	Max Pre-Duty dBm	Duty	Avg dBm	Eff. Gain / EIRP (dBi/dBm)
Wi-Fi & BLE - FC41D	802.11n HT20, 2.4 GHz	WLAN 2.4 GHz; 802.11b/g/n/ax 2.4 GHz; Ch 1 (2,412 MHz)	2412.000	20.00	17.00	100% - No duty-cycle adjustment (100%)	17.00	2.00 / 19.00
Wi-Fi & BLE - FC41D	BLE, 2.4 GHz	Bluetooth / BLE; Bluetooth LE; Adv Ch 37 (2,402 MHz)	2402.000	20.00	7.70	100% - No duty-cycle adjustment (100%)	7.70	2.00 / 9.70

Tune-Up and Worst-Case Power Basis

This table documents how the RF exposure power basis was selected before duty-cycle averaging. FCC and ISSED screening uses maximum output power including tune-up tolerance.

Power Basis Traceability

Source	Basis	Nominal dBm	Measured dBm	Tolerance	Tolerance-Adjusted Input dBm	Declared / Tune-Up Max dBm	Final Pre-Duty Source Power	Max Pre-Duty Delivered Antenna-Port Power	Gain/Loss/Eff. dB	Documentation Basis
LTE B2	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	6.44 / 0.00 / 6.44	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B4	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	6.44 / 0.00 / 6.44	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B5	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	3.99 / 0.00 / 3.99	Final pre-duty power is the nominal conducted power plus the entered

Source	Basis	Nominal dBm	Measured dBm	Tolerance	Tolerance-Adjusted Input dBm	Declared / Tune-Up Max dBm	Final Pre-Duty Source Power	Max Pre-Duty Delivered Antenna-Port Power	Gain/Loss/Eff. dB	Documentation Basis
										tune-up or production tolerance.
LTE B12	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	3.66 / 0.00 / 3.66	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B13	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	3.66 / 0.00 / 3.66	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B14	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	3.66 / 0.00 / 3.66	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B66	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	6.44 / 0.00 / 6.44	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B71	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	2.36 / 0.00 / 2.36	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.

Source	Basis	Nominal dBm	Measured dBm	Tolerance	Tolerance-Adjusted Input dBm	Declared / Tune-Up Max dBm	Final Pre-Duty Source Power	Max Pre-Duty Delivered Antenna-Port Power	Gain/Loss/Eff. dB	Documentation Basis
802.11b, 2.4 GHz	Measured conducted power + tune-up tolerance		17.80	0 dB (0.00 dB)	17.80		17.80 dBm / 60.256 mW	17.80 dBm / 60.256 mW	2.00 / 0.00 / 2.00	Final pre-duty power is the measured conducted power plus the entered tune-up or production tolerance.
802.11g, 2.4 GHz	Measured conducted power + tune-up tolerance		16.80	0 dB (0.00 dB)	16.80		16.80 dBm / 47.863 mW	16.80 dBm / 47.863 mW	2.00 / 0.00 / 2.00	Final pre-duty power is the measured conducted power plus the entered tune-up or production tolerance.
802.11n HT20, 2.4 GHz	Measured conducted power + tune-up tolerance		17.00	0 dB (0.00 dB)	17.00		17.00 dBm / 50.119 mW	17.00 dBm / 50.119 mW	2.00 / 0.00 / 2.00	Final pre-duty power is the measured conducted power plus the entered tune-up or production tolerance.
BLE, 2.4 GHz	Measured conducted power + tune-up tolerance		7.70	0 dB (0.00 dB)	7.70		7.70 dBm / 5.888 mW	7.70 dBm / 5.888 mW	2.00 / 0.00 / 2.00	Final pre-duty power is the measured conducted power plus the entered tune-up or production tolerance.
LTE B2	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	6.44 / 0.00 / 6.44	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B4	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	6.44 / 0.00 / 6.44	Final pre-duty power is the nominal conducted power plus

Source	Basis	Nominal dBm	Measured dBm	Tolerance	Tolerance-Adjusted Input dBm	Declared / Tune-Up Max dBm	Final Pre-Duty Source Power	Max Pre-Duty Delivered Antenna-Port Power	Gain/Loss/Eff. dB	Documentation Basis
										the entered tune-up or production tolerance.
LTE B5	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	3.99 / 0.00 / 3.99	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B12	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	3.66 / 0.00 / 3.66	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B13	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	3.66 / 0.00 / 3.66	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B14	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	3.66 / 0.00 / 3.66	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
LTE B66	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	6.44 / 0.00 / 6.44	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.

Source	Basis	Nominal dBm	Measured dBm	Tolerance	Tolerance-Adjusted Input dBm	Declared / Tune-Up Max dBm	Final Pre-Duty Source Power	Max Pre-Duty Delivered Antenna-Port Power	Gain/Loss/Eff. dB	Documentation Basis
LTE B71	Nominal conducted power + tune-up tolerance	23.00		2 dB (2.00 dB)	25.00		25.00 dBm / 316.228 mW	25.00 dBm / 316.228 mW	2.36 / 0.00 / 2.36	Final pre-duty power is the nominal conducted power plus the entered tune-up or production tolerance.
802.11b, 2.4 GHz	Measured conducted power + tune-up tolerance		17.80	0 dB (0.00 dB)	17.80		17.80 dBm / 60.256 mW	17.80 dBm / 60.256 mW	2.00 / 0.00 / 2.00	Final pre-duty power is the measured conducted power plus the entered tune-up or production tolerance.
802.11g, 2.4 GHz	Measured conducted power + tune-up tolerance		16.80	0 dB (0.00 dB)	16.80		16.80 dBm / 47.863 mW	16.80 dBm / 47.863 mW	2.00 / 0.00 / 2.00	Final pre-duty power is the measured conducted power plus the entered tune-up or production tolerance.
802.11n HT20, 2.4 GHz	Measured conducted power + tune-up tolerance		17.00	0 dB (0.00 dB)	17.00		17.00 dBm / 50.119 mW	17.00 dBm / 50.119 mW	2.00 / 0.00 / 2.00	Final pre-duty power is the measured conducted power plus the entered tune-up or production tolerance.
BLE, 2.4 GHz	Measured conducted power + tune-up tolerance		7.70	0 dB (0.00 dB)	7.70		7.70 dBm / 5.888 mW	7.70 dBm / 5.888 mW	2.00 / 0.00 / 2.00	Final pre-duty power is the measured conducted power plus the entered tune-up or production tolerance.

Compliance Calculation Matrix

The calculation matrix shows the applicable screening path, calculated quantity, limit or threshold, ratio, and result for each RF source.

Calculation Results

Regime	Set / Source	Path	Calculated Quantity	Limit / Threshold	Ratio	Result
FCC	Cellular - EG915Q-AF / LTE B2	B	849.486 mW	3060.000 mW	0.278	Pass
FCC	Cellular - EG915Q-AF / LTE B4	B	849.486 mW	3060.000 mW	0.278	Pass
FCC	Cellular - EG915Q-AF / LTE B5	B	483.233 mW	1682.388 mW	0.287	Pass
FCC	Cellular - EG915Q-AF / LTE B12	B	447.874 mW	1427.388 mW	0.314	Pass
FCC	Cellular - EG915Q-AF / LTE B13	B	447.874 mW	1586.508 mW	0.282	Pass
FCC	Cellular - EG915Q-AF / LTE B14	B	447.874 mW	1608.948 mW	0.278	Pass
FCC	Cellular - EG915Q-AF / LTE B66	B	849.486 mW	3060.000 mW	0.278	Pass
FCC	Cellular - EG915Q-AF / LTE B71	B	332.014 mW	1353.948 mW	0.245	Pass
FCC	Wi-Fi & BLE - FC41D / 802.11b, 2.4 GHz	B	60.256 mW	3060.000 mW	0.020	Pass
FCC	Wi-Fi & BLE - FC41D / 802.11g, 2.4 GHz	B	47.863 mW	3060.000 mW	0.016	Pass
FCC	Wi-Fi & BLE - FC41D / 802.11n HT20, 2.4 GHz	B	50.119 mW	3060.000 mW	0.016	Pass
FCC	Wi-Fi & BLE - FC41D / BLE, 2.4 GHz	B	5.888 mW	3060.000 mW	0.002	Pass
ISED	Cellular - EG915Q-AF / LTE B2	FRL	1.393 W EIRP	2.240 W FRL exemption limit	0.622	Pass
ISED	Cellular - EG915Q-AF / LTE B4	FRL	1.393 W EIRP	2.122 W FRL exemption limit	0.656	Pass

Regime	Set / Source	Path	Calculated Quantity	Limit / Threshold	Ratio	Result
ISED	Cellular - EG915Q-AF / LTE B5	FRL	0.793 W EIRP	1.289 W FRL exemption limit	0.615	Pass
ISED	Cellular - EG915Q-AF / LTE B12	FRL	0.735 W EIRP	1.152 W FRL exemption limit	0.638	Pass
ISED	Cellular - EG915Q-AF / LTE B13	FRL	0.735 W EIRP	1.238 W FRL exemption limit	0.593	Pass
ISED	Cellular - EG915Q-AF / LTE B14	FRL	0.735 W EIRP	1.250 W FRL exemption limit	0.587	Pass
ISED	Cellular - EG915Q-AF / LTE B66	FRL	1.393 W EIRP	2.122 W FRL exemption limit	0.656	Pass
ISED	Cellular - EG915Q-AF / LTE B71	FRL	0.545 W EIRP	1.111 W FRL exemption limit	0.490	Pass
ISED	Wi-Fi & BLE - FC41D / 802.11b, 2.4 GHz	FRL	0.095 W EIRP	2.684 W FRL exemption limit	0.036	Pass
ISED	Wi-Fi & BLE - FC41D / 802.11g, 2.4 GHz	FRL	0.076 W EIRP	2.684 W FRL exemption limit	0.028	Pass
ISED	Wi-Fi & BLE - FC41D / 802.11n HT20, 2.4 GHz	FRL	0.079 W EIRP	2.684 W FRL exemption limit	0.030	Pass
ISED	Wi-Fi & BLE - FC41D / BLE, 2.4 GHz	FRL	0.009 W EIRP	2.676 W FRL exemption limit	0.003	Pass

Exposure Ratio Calculation Methodology

An exposure ratio (ER) is dimensionless: $ER_i = Q_i / L_i$, where Q_i is the calculated quantity for source i and L_i is the applicable threshold or reference level in the same units. The formulas and numerical substitutions below identify the actual path used for each reported result.

P_{max} is the final pre-duty source-conducted power documented in the power-basis table. With duty factor D ($0 < D \leq 1$), $P_{cond}(mW) = 10^{(P_{max}(dBm)/10)*D}$, equivalently $P_{cond}(dBm) = P_{max}(dBm) + 10 \cdot \log_{10}(D)$. $EIRP(mW) = P_{cond}(mW) \cdot 10^{((G-L_{feed})/10)}$; $ERP(mW) = EIRP(mW)/1.64$. G is antenna gain in dBi and L_{feed} is feed/path loss in dB. $P_{delivered}(mW) = P_{cond}(mW) \cdot 10^{(-L_{feed}/10)}$. Convert mW to W by dividing by 1000. The evaluated quantities already include these adjustments; no additional duty or loss factor is applied here.

Within each user-defined Transmit Set, entries are assumed mutually exclusive: $ER_{set} = \max(ER_i)$. Separate sets are treated as simultaneous: $TER = \sum(ER_{set})$. Only the largest contribution in each set enters the total. FCC and ISED totals are evaluated separately and may select different worst-case sources. This grouping depends on the documented transmission configuration; radios that can transmit together require separate sets.

The tables reproduce the evaluator's unrounded quantities and selected contributions with up to 10 significant digits for review. The calculation matrix and summary retain their original three-decimal ratios. Totals and pass/fail decisions use the stored full-precision values, not a sum of displayed rounded ratios. A finite total ≤ 1 satisfies the numerical screening criterion; a value displayed as 1.000 can still exceed 1 before rounding. N/A or INF does not demonstrate an applicable finite ratio. The existing method limitations continue to apply.

FCC Exposure Ratio Derivation

The Path column identifies the FCC exemption method selected by the existing evaluator. Where B and C are applicable, it selects the lowest B/C ratio (preferring a passing candidate). A is a fallback only when no B/C candidate is available. These are exemption-threshold fractions, not measured SAR/limit or measured power-density/limit values.

Method B: $ER_i = \max(P_{cond,i}, ERP_i) / P_{th,i}$, with both powers in mW. $P_{th} = ERP_{20} * (d/20)^x$ for $0.5 \leq d \leq 20$ cm; $P_{th} = ERP_{20}$ for $20 < d \leq 40$ cm. $ERP_{20} = 2040 * f_{GHz}$ mW for $0.3 \leq f_{GHz} < 1.5$, or 3060 mW for $1.5 \leq f_{GHz} \leq 6$. $x = -\log_{10}[60 / (ERP_{20} * \sqrt{f_{GHz}})]$, using the specified numerical units. Here $f_{GHz} = f_{MHz}/1000$ and d is the evaluated separation in cm.

Method B reference: 47 CFR 1.1307(b)(3)(i)(B); the implemented source fractions form the B/C part of the multiple-source expression in 1.1307(b)(3)(ii)(B).

FCC Numerical Substitution

Transmit Set / Source	Evaluated Inputs	Quantity / Threshold = Ratio
Cellular - EG915Q-AF / LTE B2	Path B. $f = 1850.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 1393.156803 mW. ERP = 849.4858555 mW.	849.4858555 mW / 3060 mW = 0.2776097567; reported ratio 0.278.
Cellular - EG915Q-AF / LTE B4	Path B. $f = 1710.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 1393.156803 mW. ERP = 849.4858555 mW.	849.4858555 mW / 3060 mW = 0.2776097567; reported ratio 0.278.
Cellular - EG915Q-AF / LTE B5	Path B. $f = 824.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 792.5013305 mW. ERP = 483.2325186 mW.	483.2325186 mW / 1682.388 mW = 0.2872301268; reported ratio 0.287.
Cellular - EG915Q-AF / LTE B12	Path B. $f = 699.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 734.5138682 mW. ERP = 447.8743099 mW.	447.8743099 mW / 1427.388 mW = 0.3137719456; reported ratio 0.314.

Transmit Set / Source	Evaluated Inputs	Quantity / Threshold = Ratio
Cellular - EG915Q-AF / LTE B13	Path B. f = 777.7 MHz; d = 20.000001 cm; P_cond = 316.227766 mW; EIRP = 734.5138682 mW. ERP = 447.8743099 mW.	447.8743099 mW / 1586.508 mW = 0.2823019549; reported ratio 0.282.
Cellular - EG915Q-AF / LTE B14	Path B. f = 788.7 MHz; d = 20.000001 cm; P_cond = 316.227766 mW; EIRP = 734.5138682 mW. ERP = 447.8743099 mW.	447.8743099 mW / 1608.948 mW = 0.2783646891; reported ratio 0.278.
Cellular - EG915Q-AF / LTE B66	Path B. f = 1710.7 MHz; d = 20.000001 cm; P_cond = 316.227766 mW; EIRP = 1393.156803 mW. ERP = 849.4858555 mW.	849.4858555 mW / 3060 mW = 0.2776097567; reported ratio 0.278.
Cellular - EG915Q-AF / LTE B71	Path B. f = 663.7 MHz; d = 20.000001 cm; P_cond = 316.227766 mW; EIRP = 544.5026528 mW. ERP = 332.0138127 mW.	332.0138127 mW / 1353.948 mW = 0.2452190281; reported ratio 0.245.
Wi-Fi & BLE - FC41D / 802.11b, 2.4 GHz	Path B. f = 2412 MHz; d = 20.000001 cm; P_cond = 60.25595861 mW; EIRP = 95.4992586 mW. ERP = 58.23125525 mW.	60.25595861 mW / 3060 mW = 0.01969148974; reported ratio 0.020.
Wi-Fi & BLE - FC41D / 802.11g, 2.4 GHz	Path B. f = 2412 MHz; d = 20.000001 cm; P_cond = 47.86300923 mW; EIRP = 75.8577575 mW. ERP = 46.25473018 mW.	47.86300923 mW / 3060 mW = 0.01564150629; reported ratio 0.016.
Wi-Fi & BLE - FC41D / 802.11n HT20, 2.4 GHz	Path B. f = 2412 MHz; d = 20.000001 cm; P_cond = 50.11872336 mW; EIRP = 79.43282347 mW. ERP = 48.43464846 mW.	50.11872336 mW / 3060 mW = 0.01637866777; reported ratio 0.016.
Wi-Fi & BLE - FC41D / BLE, 2.4 GHz	Path B. f = 2402 MHz; d = 20.000001 cm; P_cond = 5.888436554 mW; EIRP = 9.332543008 mW. ERP = 5.690575005 mW.	5.888436554 mW / 3060 mW = 0.001924325671; reported ratio 0.002.

FCC Transmit Set Contributions

Transmit Set	Selected Worst-Case Source	Contribution to Total
Cellular - EG915Q-AF	LTE B12	0.3137719456
Wi-Fi & BLE - FC41D	802.11b, 2.4 GHz	0.01969148974

FCC Aggregate Derivation

Metric	Substitution and Reported Result
Total screening ratio (TER)	0.3137719456 + 0.01969148974 = 0.3334634353; reported 0.333. Criterion: <= 1.

ISED Exposure Ratio Derivation

The ratios below document the implemented v3 routine-evaluation exemption screen. They normalize power to an exemption threshold. The program's summed screening metric is not a measured SAR, APD, IPD or field reference-level TER under RSS-102 Section 8.

FRL exemption path ($d > 20$ cm): $ER_i = EIRP_i(W) / P_{FRL}(f)(W)$. The frequency-dependent EIRP threshold P_{FRL} is 1 W for $f < 20$ MHz; $4.49/\sqrt{f}$ W for $20 \leq f < 48$ MHz; 0.6 W for $48 \leq f < 300$ MHz; $0.0131 \cdot f^{0.6834}$ W for $300 \leq f < 6000$ MHz; and 5 W for $f \geq 6000$ MHz. f is in MHz. Reference: RSS-102 Issue 6, Section 6.6. Distance selects this branch; it does not enter the Section 6.6 power threshold as an inverse-square factor.

ISED Numerical Substitution

Transmit Set / Source	Evaluated Inputs	Quantity / Threshold = Ratio
Cellular - EG915Q-AF / LTE B2	Path FRL. $f = 1850.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 1393.156803 mW.	1.393156803 W EIRP / 2.239591111 W FRL exemption limit = 0.6220585517; reported ratio 0.622.
Cellular - EG915Q-AF / LTE B4	Path FRL. $f = 1710.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 1393.156803 mW.	1.393156803 W EIRP / 2.122375914 W FRL exemption limit = 0.6564137831; reported ratio 0.656.
Cellular - EG915Q-AF / LTE B5	Path FRL. $f = 824.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 792.5013305 mW.	0.7925013305 W EIRP / 1.289044702 W FRL exemption limit = 0.6147973993; reported ratio 0.615.
Cellular - EG915Q-AF / LTE B12	Path FRL. $f = 699.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 734.5138682 mW.	0.7345138682 W EIRP / 1.152083801 W FRL exemption limit = 0.6375524657; reported ratio 0.638.
Cellular - EG915Q-AF / LTE B13	Path FRL. $f = 777.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 734.5138682 mW.	0.7345138682 W EIRP / 1.238375308 W FRL exemption limit = 0.5931270297; reported ratio 0.593.
Cellular - EG915Q-AF / LTE B14	Path FRL. $f = 788.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 734.5138682 mW.	0.7345138682 W EIRP / 1.250319049 W FRL exemption limit = 0.5874611516; reported ratio 0.587.
Cellular - EG915Q-AF / LTE B66	Path FRL. $f = 1710.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 1393.156803 mW.	1.393156803 W EIRP / 2.122375914 W FRL exemption limit = 0.6564137831; reported ratio 0.656.
Cellular - EG915Q-AF / LTE B71	Path FRL. $f = 663.7$ MHz; $d = 20.000001$ cm; $P_{cond} = 316.227766$ mW; EIRP = 544.5026528 mW.	0.5445026528 W EIRP / 1.111237365 W FRL exemption limit = 0.4899967101; reported ratio 0.490.
Wi-Fi & BLE - FC41D / 802.11b, 2.4 GHz	Path FRL. $f = 2412$ MHz; $d = 20.000001$ cm; $P_{cond} = 60.25595861$ mW; EIRP = 95.4992586 mW.	0.0954992586 W EIRP / 2.684033579 W FRL exemption limit = 0.03558050069; reported ratio 0.036.
Wi-Fi & BLE - FC41D / 802.11g, 2.4 GHz	Path FRL. $f = 2412$ MHz; $d = 20.000001$ cm; $P_{cond} = 47.86300923$ mW; EIRP = 75.8577575 mW.	0.0758577575 W EIRP / 2.684033579 W FRL exemption limit = 0.0282625963; reported ratio 0.028.
Wi-Fi & BLE - FC41D / 802.11n HT20, 2.4 GHz	Path FRL. $f = 2412$ MHz; $d = 20.000001$ cm; $P_{cond} = 50.11872336$ mW; EIRP = 79.43282347 mW.	0.07943282347 W EIRP / 2.684033579 W FRL exemption limit = 0.02959457143; reported ratio 0.030.
Wi-Fi & BLE - FC41D / BLE, 2.4 GHz	Path FRL. $f = 2402$ MHz; $d = 20.000001$ cm; $P_{cond} = 5.888436554$ mW; EIRP = 9.332543008 mW.	0.009332543008 W EIRP / 2.676423817 W FRL exemption limit = 0.003486945135; reported ratio 0.003.

ISED Transmit Set Contributions

Transmit Set	Selected Worst-Case Source	Contribution to Total
Cellular - EG915Q-AF	LTE B4	0.6564137831

Transmit Set	Selected Worst-Case Source	Contribution to Total
Wi-Fi & BLE - FC41D	802.11b, 2.4 GHz	0.03558050069

ISED Aggregate Derivation

Metric	Substitution and Reported Result
Total screening ratio (TER)	$0.6564137831 + 0.03558050069 = 0.6919942837$; reported 0.692. Criterion: ≤ 1 .

Duty Cycle and Time Averaging

When a duty-cycle factor is selected, the maximum pre-duty conducted power is reduced by $10 \cdot \log_{10}(\text{duty factor})$ before calculating EIRP, ERP, power density, or SAR-exclusion basis. Duty-cycle credit should be supported by firmware, protocol, timing, or measurement evidence.

Time-Averaged Power Basis

Source	Maximum Pre-Duty Conducted Power	Duty Cycle	Adjustment	Time-Averaged Power	Basis
LTE B2	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B4	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B5	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B12	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B13	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B14	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B66	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B71	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.

Source	Maximum Pre-Duty Conducted Power	Duty Cycle	Adjustment	Time-Averaged Power	Basis
802.11b, 2.4 GHz	17.80 dBm / 60.256 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	17.80 dBm / 60.256 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
802.11g, 2.4 GHz	16.80 dBm / 47.863 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	16.80 dBm / 47.863 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
802.11n HT20, 2.4 GHz	17.00 dBm / 50.119 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	17.00 dBm / 50.119 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
BLE, 2.4 GHz	7.70 dBm / 5.888 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	7.70 dBm / 5.888 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B2	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B4	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B5	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B12	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B13	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B14	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B66	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
LTE B71	25.00 dBm / 316.228 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	25.00 dBm / 316.228 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
802.11b, 2.4 GHz	17.80 dBm / 60.256 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	17.80 dBm / 60.256 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.

Source	Maximum Pre-Duty Conducted Power	Duty Cycle	Adjustment	Time-Averaged Power	Basis
802.11g, 2.4 GHz	16.80 dBm / 47.863 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	16.80 dBm / 47.863 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
802.11n HT20, 2.4 GHz	17.00 dBm / 50.119 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	17.00 dBm / 50.119 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.
BLE, 2.4 GHz	7.70 dBm / 5.888 mW	100% - No duty-cycle adjustment (100%)	0.00 dB	7.70 dBm / 5.888 mW	The maximum pre-duty conducted power is used without additional duty-cycle reduction.

Radio Preset Traceability

The following table identifies the selected radio presets, bands, channels, and regional applicability metadata used to populate the calculation inputs.

Preset and Channel Traceability

Source	Applicability	Technology	Band	Channel	Range	Bandwidth / Raster
LTE B2	FCC/ISED	LTE	Band 2 PCS	Low (1,850.7 MHz)	1850-1910 MHz	
LTE B4	FCC/ISED	LTE	Band 4 AWS-1	Low (1,710.7 MHz)	1710-1755 MHz	
LTE B5	FCC/ISED	LTE	Band 5 Cellular	Low (824.7 MHz)	824-849 MHz	
LTE B12	FCC/ISED	LTE	Band 12 Lower 700	Low (699.7 MHz)	699-716 MHz	
LTE B13	FCC/ISED	LTE	Band 13 Upper 700	Low (777.7 MHz)	777-787 MHz	
LTE B14	FCC/ISED	LTE	Band 14 Public Safety 700	Low (788.7 MHz)	UE transmit 788-798 MHz; downlink 758-768 MHz	LTE FDD channel bandwidths commonly 5/10 MHz where supported
LTE B66	FCC/ISED	LTE	Band 66 AWS-3	Low (1,710.7 MHz)	1710-1780 MHz	
LTE B71	FCC/ISED	LTE	Band 71 600 MHz FDD	Low (663.7 MHz)	UE transmit 663-698 MHz; downlink 617-652 MHz	LTE FDD channel bandwidths commonly 5/10/15/20 MHz where supported
802.11b, 2.4 GHz	FCC/ISED	WLAN 2.4 GHz	802.11b/g/n/ax 2.4 GHz	Ch 1 (2,412 MHz)	2412-2462 MHz	

Source	Applicability	Technology	Band	Channel	Range	Bandwidth / Raster
802.11g, 2.4 GHz	FCC/ISED	WLAN 2.4 GHz	802.11b/g/n/ax 2.4 GHz	Ch 1 (2,412 MHz)	2412-2462 MHz	
802.11n HT20, 2.4 GHz	FCC/ISED	WLAN 2.4 GHz	802.11b/g/n/ax 2.4 GHz	Ch 1 (2,412 MHz)	2412-2462 MHz	
BLE, 2.4 GHz	FCC/ISED	Bluetooth / BLE	Bluetooth LE	Adv Ch 37 (2,402 MHz)	2402-2480 MHz, 40 channels at 2 MHz spacing	2 MHz selected channel bandwidth/raster ; BLE 1M/2M/Coded PHY use 2 MHz channel spacing; occupied bandwidth depends on PHY
LTE B2	FCC/ISED	LTE	Band 2 PCS	Low (1,850.7 MHz)	1850-1910 MHz	
LTE B4	FCC/ISED	LTE	Band 4 AWS-1	Low (1,710.7 MHz)	1710-1755 MHz	
LTE B5	FCC/ISED	LTE	Band 5 Cellular	Low (824.7 MHz)	824-849 MHz	
LTE B12	FCC/ISED	LTE	Band 12 Lower 700	Low (699.7 MHz)	699-716 MHz	
LTE B13	FCC/ISED	LTE	Band 13 Upper 700	Low (777.7 MHz)	777-787 MHz	
LTE B14	FCC/ISED	LTE	Band 14 Public Safety 700	Low (788.7 MHz)	UE transmit 788-798 MHz; downlink 758-768 MHz	LTE FDD channel bandwidths commonly 5/10 MHz where supported
LTE B66	FCC/ISED	LTE	Band 66 AWS-3	Low (1,710.7 MHz)	1710-1780 MHz	
LTE B71	FCC/ISED	LTE	Band 71 600 MHz FDD	Low (663.7 MHz)	UE transmit 663-698 MHz; downlink 617-652 MHz	LTE FDD channel bandwidths commonly 5/10/15/20 MHz where supported
802.11b, 2.4 GHz	FCC/ISED	WLAN 2.4 GHz	802.11b/g/n/ax 2.4 GHz	Ch 1 (2,412 MHz)	2412-2462 MHz	
802.11g, 2.4 GHz	FCC/ISED	WLAN 2.4 GHz	802.11b/g/n/ax 2.4 GHz	Ch 1 (2,412 MHz)	2412-2462 MHz	
802.11n HT20, 2.4 GHz	FCC/ISED	WLAN 2.4 GHz	802.11b/g/n/ax 2.4 GHz	Ch 1 (2,412 MHz)	2412-2462 MHz	
BLE, 2.4 GHz	FCC/ISED	Bluetooth / BLE	Bluetooth LE	Adv Ch 37 (2,402 MHz)	2402-2480 MHz, 40 channels at 2 MHz spacing	2 MHz selected channel bandwidth/raster ; BLE

Source	Applicability	Technology	Band	Channel	Range	Bandwidth / Raster
						1M/2M/Coded PHY use 2 MHz channel spacing; occupied bandwidth depends on PHY

Method-Specific Notes

- FCC - LTE B2: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - LTE B4: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - LTE B5: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - LTE B12: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - LTE B13: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - LTE B14: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - LTE B66: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - LTE B71: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - 802.11b, 2.4 GHz: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - 802.11g, 2.4 GHz: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.

- FCC - 802.11n HT20, 2.4 GHz: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- FCC - BLE, 2.4 GHz: FCC §1.1307(b)(3)(i)(B): P_i is evaluated as the greater of the available maximum time-averaged conducted power and ERP; the P_{th} formula is applicable only from 0.5 cm to 40 cm and 0.3 GHz to 6 GHz.
- ISSED - LTE B2: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - LTE B4: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - LTE B5: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - LTE B12: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - LTE B13: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - LTE B14: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - LTE B66: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - LTE B71: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - 802.11b, 2.4 GHz: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - 802.11g, 2.4 GHz: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.
- ISSED - 802.11n HT20, 2.4 GHz: ISSED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.

- ISED - BLE, 2.4 GHz: ISED RSS-102 Issue 6 FRL routine evaluation exemption limit applied because separation is >20 cm. FRL assessment below 20 cm may be used only where the antenna exposure condition is in the far field and is technically justified.

Formal Screening Conclusion

Based on the entered configuration and selected FCC/ISED screening workflow, the calculated total exposure ratio is at or below 1.0 for each selected regime (FCC: 0.333, ISED: 0.692). This indicates that the selected RF exposure exemption or routine-evaluation screening criterion is satisfied for the documented assumptions.

- FCC 47 CFR 1.1307(b)(3) RF exposure exemption screening criteria, as implemented in the calculator.
- ISED RSS-102 Issue 6 RF exposure exemption and routine-evaluation screening criteria, as implemented in the calculator.

End of Report

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