Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
66	QPSK	1.4 MHz	6	0	131979	1710.7	14.7
					132322	1745.0	14.7
					132665	1779.3	14.4
			3	1	131979	1710.7	14.1
					132322	1745.0	14.3
					132665	1779.3	14.3
			1	0	131979	1710.7	14.0
					132322	1745.0	14.4
					132665	1779.3	14.0
			1	5	131979	1710.7	14.3
					132322	1745.0	14.2
					132665	1779.3	14.3
		3 MHz	15	0	131987	1711.5	14.5
					132322	1745.0	14.0
					132657	1778.5	14.0
			8	3	131987	1711.5	14.2
					132322	1745.0	14.2
					132657	1778.5	14.1
			1	0	131987	1711.5	14.4
					132322	1745.0	14.6
					132657	1778.5	14.1
			1	14	131987	1711.5	14.7
					132322	1745.0	14.4
					132657	1778.5	14.7
		5 MHz	25	0	131997	1712.5	14.1
					132322	1745.0	14.7
					132647	1777.5	14.5
			12	6	131997	1712.5	14.3
					132322	1745.0	14.5
					132647	1777.5	14.0
			1	0	131997	1712.5	14.0
					132322	1745.0	14.5
					132647	1777.5	14.0
			1	24	131997	1712.5	14.4
					132322	1745.0	14.6
					132647	1777.5	14.4

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Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
66	QPSK	10 MHz	50	0	132022	1715.0	14.5
					132322	1745.0	14.5
					132622	1775.0	14.5
			25	12	132022	1715.0	14.6
					132322	1745.0	14.6
					132622	1775.0	14.5
			1	0	132022	1715.0	14.4
					132322	1745.0	14.2
					132622	1775.0	14.0
			1	24	132022	1715.0	14.0
					132322	1745.0	14.4
					132622	1775.0	14.5
		15 MHz	75	0	132047	1717.5	14.3
					132322	1745.0	14.3
					132597	1772.5	14.4
			36	19	132047	1717.5	14.5
					132322	1745.0	14.3
					132597	1772.5	14.6
			1	0	132047	1717.5	14.5
					132322	1745.0	14.2
					132597	1772.5	14.1
			1	74	132047	1717.5	14.6
					132322	1745.0	14.1
					132597	1772.5	14.0
		20 MHz	100	0	132072	1720.0	14.5
					132322	1745.0	14.2
					132572	1770.0	14.4
			50	25	132072	1720.0	14.1
					132322	1745.0	14.0
					132572	1770.0	14.4
			1	49	132072	1720.0	14.1
					132322	1745.0	14.5
					132572	1770.0	14.5
			1	99	132072	1720.0	14.3
					132322	1745.0	14.4
					132572	1770.0	14.4

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Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
66	16QAM	1.4 MHz	6	0	131979	1710.7	14.6
					132322	1745.0	14.7
					132665	1779.3	14.3
			3	1	131979	1710.7	14.6
					132322	1745.0	14.2
					132665	1779.3	14.6
			1	0	131979	1710.7	14.6
					132322	1745.0	14.0
					132665	1779.3	14.1
			1	5	131979	1710.7	14.7
					132322	1745.0	14.4
					132665	1779.3	14.3
		3 MHz	15	0	131987	1711.5	14.4
					132322	1745.0	14.5
					132657	1778.5	14.0
			8	3	131987	1711.5	14.2
					132322	1745.0	14.4
					132657	1778.5	14.6
			1	0	131987	1711.5	14.2
					132322	1745.0	14.6
					132657	1778.5	14.2
			1	14	131987	1711.5	14.5
					132322	1745.0	14.1
					132657	1778.5	14.4
		5 MHz	25	0	131997	1712.5	14.2
					132322	1745.0	14.6
					132647	1777.5	14.1
			12	6	131997	1712.5	14.2
					132322	1745.0	14.4
					132647	1777.5	14.2
			1	0	131997	1712.5	14.1
					132322	1745.0	14.3
					132647	1777.5	14.0
			1	24	131997	1712.5	14.7
					132322	1745.0	14.1
					132647	1777.5	14.5

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Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
66	16QAM	10 MHz	50	0	132022	1715.0	14.4
					132322	1745.0	14.3
					132622	1775.0	14.3
			25	12	132022	1715.0	14.2
					132322	1745.0	14.5
					132622	1775.0	14.2
			1	0	132022	1715.0	14.5
					132322	1745.0	14.6
					132622	1775.0	14.0
			1	24	132022	1715.0	14.2
					132322	1745.0	14.1
					132622	1775.0	14.5
		15 MHz	75	0	132047	1717.5	14.6
					132322	1745.0	14.5
					132597	1772.5	14.2
			36	19	132047	1717.5	14.4
					132322	1745.0	14.5
					132597	1772.5	14.3
			1	0	132047	1717.5	14.6
					132322	1745.0	14.5
					132597	1772.5	14.4
			1	74	132047	1717.5	14.1
					132322	1745.0	14.1
					132597	1772.5	14.1
		20 MHz	100	0	132072	1720.0	14.6
					132322	1745.0	14.3
					132572	1770.0	14.1
			50	25	132072	1720.0	14.2
					132322	1745.0	14.2
					132572	1770.0	14.6
			1	0	132072	1720.0	14.4
					132322	1745.0	14.1
					132572	1770.0	14.1
			1	99	132072	1720.0	14.3
					132322	1745.0	14.1
					132572	1770.0	14.4

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Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
38	QPSK	5 MHz	25	0	37775	2572.5	17.1
					38000	2595.0	17.1
					38225	2617.5	16.8
			12	6	37775	2572.5	17.0
					38000	2595.0	17.1
					38225	2617.5	17.0
			1	0	37775	2572.5	16.9
					38000	2595.0	16.6
					38225	2617.5	17.2
			1	24	37775	2572.5	16.8
					38000	2595.0	17.0
					38225	2617.5	17.0

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Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
38	QPSK	10 MHz	50	0	37800	2575.0	16.7
					38000	2595.0	16.6
					38200	2615.0	16.8
			25	12	37800	2575.0	16.7
					38000	2595.0	16.6
					38200	2615.0	16.8
			1	0	37800	2575.0	16.6
					38000	2595.0	16.7
					38200	2615.0	16.7
			1	24	37800	2575.0	16.6
					38000	2595.0	16.8
					38200	2615.0	17.0
		15 MHz	75	0	37825	2577.5	16.6
					38000	2595.0	16.8
					38175	2612.5	16.9
			36	19	37825	2577.5	16.6
					38000	2595.0	16.8
					38175	2612.5	16.8
			1	0	37825	2577.5	17.1
					38000	2595.0	16.9
					38175	2612.5	16.9
			1	74	37825	2577.5	17.1
					38000	2595.0	16.8
					38175	2612.5	16.9
		20 MHz	100	0	37850	2580.0	16.5
					38000	2595.0	17.0
					38150	2610.0	17.0
			50	25	37850	2580.0	17.0
					38000	2595.0	16.7
					38150	2610.0	17.0
			1	0	37850	2580.0	17.0
					38000	2595.0	16.7
					38150	2610.0	16.9
			1	99	37850	2580.0	16.9
					38000	2595.0	17.1
					38150	2610.0	16.6

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Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
38	16QAM	5 MHz	25	0	37775	2572.5	16.8
					38000	2595.0	17.1
					38225	2617.5	16.5
			12	6	37775	2572.5	16.7
					38000	2595.0	16.7
					38225	2617.5	16.7
			1	0	37775	2572.5	17.1
					38000	2595.0	16.7
					38225	2617.5	16.6
			1	24	37775	2572.5	16.7
					38000	2595.0	16.6
					38225	2617.5	16.8

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Band	Modulation	Bandwidth	RB Size	RB Offset	Channel	Frequency	Power
38	16QAM	10 MHz	50	0	37800	2575.0	17.2
					38000	2595.0	16.7
					38200	2615.0	16.8
			25	12	37800	2575.0	17.0
					38000	2595.0	16.9
					38200	2615.0	17.1
			1	0	37800	2575.0	16.6
					38000	2595.0	16.9
					38200	2615.0	16.9
			1	24	37800	2575.0	17.0
					38000	2595.0	16.5
					38200	2615.0	16.8
		15 MHz	75	0	37825	2577.5	16.7
					38000	2595.0	16.7
					38175	2612.5	16.7
			36	19	37825	2577.5	17.1
					38000	2595.0	17.1
					38175	2612.5	17.1
			1	0	37825	2577.5	17.2
					38000	2595.0	16.6
					38175	2612.5	17.0
			1	74	37825	2577.5	16.9
					38000	2595.0	16.8
					38175	2612.5	16.8
		20 MHz	100	0	37850	2580.0	16.6
					38000	2595.0	16.9
					38150	2610.0	16.9
			50	25	37850	2580.0	17.1
					38000	2595.0	16.9
					38150	2610.0	16.6
			1	0	37850	2580.0	16.7
					38000	2595.0	17.2
					38150	2610.0	17.1
			1	99	37850	2580.0	16.7
					38000	2595.0	16.7
					38150	2610.0	16.8

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Table 10.5.2 Test Reduction Table – LTE

Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 2 1850-1910 MHz	Back	18700	20 MHz	QPSK	50	0	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	49	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700				99	Reduced[2]
		18900					Reduced[2]
		19100					Reduced[2]
		18700		16QAM	50	25	Reduced[3]
		18900					Reduced[3]
		19100					Reduced[3]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	0	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		18700				99	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	Top	18700	20 MHz	QPSK	50	25	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	0	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700				99	Reduced[2]
		18900					Reduced[2]
		19100					Reduced[2]
		18700		16QAM	50	25	Reduced[3]
		18900					Reduced[3]
		19100					Reduced[3]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	0	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		18700				99	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 2 1850-1910 MHz	Right	18700	20 MHz	QPSK	50	0	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	49	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700				99	Reduced[2]
		18900					Reduced[2]
		19100					Reduced[2]
		18700		16QAM	50	25	Reduced[3]
		18900					Reduced[3]
		19100					Reduced[3]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	0	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		18700				99	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 25 1850-1915 MHz	Back	26140	20 MHz	QPSK	50	0	Reduced[7]
		26365					Tested
		26590					Reduced[7]
		26140			100	0	Reduced[1]
		26365					Reduced[1]
		26590					Reduced[1]
		26140			1	49	Reduced[7]
		26365					Tested
		26590					Reduced[7]
		26140				99	Reduced[2]
		26365					Reduced[2]
		26590					Reduced[2]
		26140		16QAM	50	25	Reduced[3]
		26365					Reduced[3]
		26590					Reduced[3]
		26140			100	0	Reduced[1]
		26365					Reduced[1]
		26590					Reduced[1]
		26140			1	0	Reduced[4]
		26365					Reduced[4]
		26590					Reduced[4]
		26140				99	Reduced[4]
		26365					Reduced[4]
		26590					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	Top	26140	20 MHz	QPSK	50	25	Reduced[7]
		26365					Tested
		26590					Reduced[7]
		26140			100	0	Reduced[1]
		26365					Reduced[1]
		26590					Reduced[1]
		26140			1	0	Reduced[7]
		26365					Tested
		26590					Reduced[7]
		26140				99	Reduced[2]
		26365					Reduced[2]
		26590					Reduced[2]
		26140		16QAM	50	25	Reduced[3]
		26365					Reduced[3]
		26590					Reduced[3]
		26140			100	0	Reduced[1]
		26365					Reduced[1]
		26590					Reduced[1]
		26140			1	0	Reduced[4]
		26365					Reduced[4]
		26590					Reduced[4]
		26140				99	Reduced[4]
		26365					Reduced[4]
		26590					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 25 1850-1915 MHz	Right	26140	20 MHz	QPSK	50	0	Reduced[7]
		26365					Tested
		26590					Reduced[7]
		26140			100	0	Reduced[1]
		26365					Reduced[1]
		26590					Reduced[1]
		26140			1	49	Reduced[7]
		26365					Tested
		26590					Reduced[7]
		26140				99	Reduced[2]
		26365					Reduced[2]
		26590					Reduced[2]
		26140		16QAM	50	25	Reduced[3]
		26365					Reduced[3]
		26590					Reduced[3]
		26140			100	0	Reduced[1]
		26365					Reduced[1]
		26590					Reduced[1]
		26140			1	0	Reduced[4]
		26365					Reduced[4]
		26590					Reduced[4]
		26140				99	Reduced[4]
		26365					Reduced[4]
		26590					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 4 1710-1755 MHz	Back	18700	20 MHz	QPSK	50	25	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	49	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700				99	Reduced[2]
		18900					Reduced[2]
		19100					Reduced[2]
		18700		16QAM	50	25	Reduced[3]
		18900					Reduced[3]
		19100					Reduced[3]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	49	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		18700				99	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	Top	18700	20 MHz	QPSK	50	25	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700			100	0	Reduced[1]
		18900					Tested
		19100					Reduced[1]
		18700			1	0	Tested
		18900					Tested
		19100					Tested
		18700				99	Reduced[2]
		18900					Reduced[2]
		19100					Reduced[2]
		18700		16QAM	50	25	Reduced[3]
		18900					Reduced[3]
		19100					Reduced[3]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	0	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		18700				99	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 4 1710-1755 MHz	Right	18700	20 MHz	QPSK	50	25	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	49	Reduced[7]
		18900					Tested
		19100					Reduced[7]
		18700				99	Reduced[2]
		18900					Reduced[2]
		19100					Reduced[2]
		18700		16QAM	50	25	Reduced[3]
		18900					Reduced[3]
		19100					Reduced[3]
		18700			100	0	Reduced[1]
		18900					Reduced[1]
		19100					Reduced[1]
		18700			1	49	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		18700				99	Reduced[4]
		18900					Reduced[4]
		19100					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 66 1710-1780 MHz	Back	132072	20 MHz	QPSK	50	25	Reduced[7]
		132322					Tested
		132572					Reduced[7]
		132072			100	0	Reduced[1]
		132322					Reduced[1]
		132572					Reduced[1]
		132072			1	49	Reduced[7]
		132322					Tested
		132572					Reduced[7]
		132072				99	Reduced[2]
		132322					Reduced[2]
		132572					Reduced[2]
		132072		16QAM	50	25	Reduced[3]
		132322					Reduced[3]
		132572					Reduced[3]
		132072			100	0	Reduced[1]
		132322					Reduced[1]
		132572					Reduced[1]
		132072			1	49	Reduced[4]
		132322					Reduced[4]
		132572					Reduced[4]
		132072				99	Reduced[4]
		132322					Reduced[4]
		132572					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	Top	132072	20 MHz	QPSK	50	25	Reduced[7]
		132322					Tested
		132572					Reduced[7]
		132072			100	0	Reduced[1]
		132322					Tested
		132572					Reduced[1]
		132072			1	0	Tested
		132322					Tested
		132572					Tested
		132072				99	Reduced[2]
		132322					Reduced[2]
		132572					Reduced[2]
		132072		16QAM	50	25	Reduced[3]
		132322					Reduced[3]
		132572					Reduced[3]
		132072			100	0	Reduced[1]
		132322					Reduced[1]
		132572					Reduced[1]
		132072			1	0	Reduced[4]
		132322					Reduced[4]
		132572					Reduced[4]
		132072				99	Reduced[4]
		132322					Reduced[4]
		132572					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 66 1710-1780 MHz	Right	132072	20 MHz	QPSK	50	25	Reduced[7]
		132322					Tested
		132572					Reduced[7]
		132072			100	0	Reduced[1]
		132322					Reduced[1]
		132572					Reduced[1]
		132072			1	49	Reduced[7]
		132322					Tested
		132572					Reduced[7]
		132072				99	Reduced[2]
		132322					Reduced[2]
		132572					Reduced[2]
		132072		16QAM	50	25	Reduced[3]
		132322					Reduced[3]
		132572					Reduced[3]
		132072			100	0	Reduced[1]
		132322					Reduced[1]
		132572					Reduced[1]
		132072			1	49	Reduced[4]
		132322					Reduced[4]
		132572					Reduced[4]
		132072				99	Reduced[4]
		132322					Reduced[4]
		132572					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 26 814-849 MHz	Back	26740	15 MHz	QPSK	25	12	Reduced[7]
		26865					Tested
		26990					Reduced[7]
		26740			50	0	Reduced[1]
		26865					Reduced[1]
		26990					Reduced[1]
		26740			1	0	Reduced[7]
		26865					Tested
		26990					Reduced[7]
		26740				24	Reduced[2]
		26865					Reduced[2]
		26990					Reduced[2]
		26740		16QAM	25	12	Reduced[3]
		26865					Reduced[3]
		26990					Reduced[3]
		26740			50	0	Reduced[1]
		26865					Reduced[1]
		26990					Reduced[1]
		26740			1	0	Reduced[4]
		26865					Reduced[4]
		26990					Reduced[4]
		26740				24	Reduced[4]
		26865					Reduced[4]
		26990					Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	Top	26740	15 MHz	QPSK	25	12	Reduced[7]
		26865					Tested
		26990					Reduced[7]
		26740			50	0	Reduced[1]
		26865					Reduced[1]
		26990					Reduced[1]
		26740			1	0	Reduced[7]
		26865					Tested
		26990					Reduced[7]
		26740				24	Reduced[2]
		26865					Reduced[2]
		26990					Reduced[2]
		26740		16QAM	25	12	Reduced[3]
		26865					Reduced[3]
		26990					Reduced[3]
		26740			50	0	Reduced[1]
		26865					Reduced[1]
		26990					Reduced[1]
		26740			1	0	Reduced[4]
		26865					Reduced[4]
		26990					Reduced[4]
		26740				24	Reduced[4]
		26865					Reduced[4]
		26990					Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	All remaining sides						Reduced[7]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.
Reduced[7] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 26 814-849 MHz	Right	26740	15 MHz	QPSK	25	12	Reduced[7]
		26865					Tested
		26990					Reduced[7]
		26740			50	0	Reduced[1]
		26865					Reduced[1]
		26990					Reduced[1]
		26740			1	0	Reduced[7]
		26865					Tested
		26990					Reduced[7]
		26740				24	Reduced[2]
		26865					Reduced[2]
		26990					Reduced[2]
		26740		16QAM	25	12	Reduced[3]
		26865					Reduced[3]
		26990					Reduced[3]
		26740			50	0	Reduced[1]
		26865					Reduced[1]
		26990					Reduced[1]
		26740			1	0	Reduced[4]
		26865					Reduced[4]
		26990					Reduced[4]
		26740				24	Reduced[4]
		26865					Reduced[4]
		26990					Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	All remaining sides						Reduced[7]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.
Reduced[7] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 13 777-787 MHz	Back	23230	10 MHz	QPSK	25	12	Tested
		23230			50	0	Reduced[1]
		23230			1	0	Tested
		23230				24	Reduced[2]
		23230		16QAM	25	12	Reduced[3]
		23230			50	0	Reduced[1]
		23230			1	0	Reduced[4]
		23230				24	Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	Top	23230	10 MHz	QPSK	25	12	Tested
		23230			50	0	Reduced[1]
		23230			1	0	Tested
		23230				24	Reduced[2]
		23230		16QAM	25	12	Reduced[3]
		23230			50	0	Reduced[1]
		23230			1	0	Reduced[4]
		23230				24	Reduced[4]
		All lower bandwidths (5 MHz)					
	Right	23230	10 MHz	QPSK	25	12	Tested
		23230			50	0	Reduced[2]
		23230			1	0	Tested
		23230				24	Reduced[2]
		23230		16QAM	25	12	Reduced[3]
		23230			50	0	Reduced[1]
		23230			1	0	Reduced[4]
		23230				24	Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	All remaining sides						Reduced[7]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced[6]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Reduced[7] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 14 788-798 MHz	Back	23330	10 MHz	QPSK	25	12	Tested
		23330			50	0	Reduced[1]
		23330			1	0	Tested
		23330				24	Reduced[2]
		23330		16QAM	25	12	Reduced[3]
		23330			50	0	Reduced[1]
		23330			1	0	Reduced[4]
		23330				24	Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	Top	23330	10 MHz	QPSK	25	12	Tested
		23330			50	0	Reduced[1]
		23330			1	0	Tested
		23330				24	Reduced[2]
		23330		16QAM	25	12	Reduced[3]
		23330			50	0	Reduced[1]
		23330			1	0	Reduced[4]
		23330				24	Reduced[4]
		All lower bandwidths (5 MHz)					
	Right	23330	10 MHz	QPSK	25	12	Tested
		23330			50	0	Tested
		23330			1	0	Tested
		23330				24	Reduced[2]
		23330		16QAM	25	12	Reduced[3]
		23330			50	0	Reduced[1]
		23330			1	0	Reduced[4]
		23330				24	Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	All remaining sides						Reduced[7]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced[6]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Reduced[7] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 12 699-716 MHz	Back	23060	10 MHz	QPSK	25	12	Reduced[6]
		23095					Tested
		23129					Reduced[6]
		23060			50	0	Reduced[1]
		23095					Reduced[1]
		23129					Reduced[1]
		23060			1	12	Reduced[6]
		23095					Tested
		23129					Reduced[6]
		23060				24	Reduced[1]
		23095					Reduced[2]
		23129					Reduced[2]
		23060		16QAM	25	12	Reduced[3]
		23095					Reduced[3]
		23129					Reduced[3]
		23060			50	0	Reduced[1]
		23095					Reduced[1]
		23129					Reduced[1]
		23060			1	0	Reduced[4]
		23095					Reduced[4]
		23129					Reduced[4]
		23060				24	Reduced[4]
		23095					Reduced[4]
		23129					Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	Top	23060	10 MHz	QPSK	25	12	Reduced[6]
		23095					Tested
		23129					Reduced[6]
		23060			50	0	Reduced[1]
		23095					Tested
		23129					Reduced[1]
		23060			1	24	Reduced[6]
		23095					Tested
		23129					Reduced[6]
		23060				49	Reduced[1]
		23095					Reduced[2]
		23129					Reduced[2]
		23060		16QAM	25	12	Reduced[3]
		23095					Reduced[3]
		23129					Reduced[3]
		23060			50	0	Reduced[1]
		23095					Reduced[1]
		23129					Reduced[1]
		23060			1	0	Reduced[4]
		23095					Reduced[4]
		23129					Reduced[4]
		23060				24	Reduced[4]
		23095					Reduced[4]
		23129					Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	All remaining sides						Reduced[7]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.
Reduced[7] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 12 699-716 MHz	Right	23060	10 MHz	QPSK	25	12	Reduced[6]
		23095					Tested
		23129					Reduced[6]
		23060			50	0	Reduced[1]
		23095					Reduced[1]
		23129					Reduced[1]
		23060			1	12	Reduced[6]
		23095					Tested
		23129					Reduced[6]
		23060				24	Reduced[1]
		23095					Reduced[2]
		23129					Reduced[2]
		23060		16QAM	25	12	Reduced[3]
		23095					Reduced[3]
		23129					Reduced[3]
		23060			50	0	Reduced[1]
		23095					Reduced[1]
		23129					Reduced[1]
		23060			1	0	Reduced[4]
		23095					Reduced[4]
		23129					Reduced[4]
		23060				24	Reduced[4]
		23095					Reduced[4]
		23129					Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	All remaining sides						Reduced[7]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.
Reduced[7] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 30 2305-2315 MHz	Back	27710	10 MHz	QPSK	25	12	Tested
		27710			50	0	Reduced[1]
		27710			1	0	Tested
		27710				24	Reduced[2]
		27710		16QAM	25	12	Reduced[3]
		27710			50	0	Reduced[1]
		27710			1	0	Reduced[4]
		27710				24	Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	Top	27710	10 MHz	QPSK	25	12	Tested
		27710			50	0	Tested
		27710			1	0	Tested
		27710				24	Reduced[2]
		27710		16QAM	25	12	Reduced[3]
		27710			50	0	Reduced[1]
		27710			1	0	Reduced[4]
		27710				24	Reduced[4]
		All lower bandwidths (5 MHz)					
	Right	27710	10 MHz	QPSK	25	12	Tested
		27710			50	0	Reduced[1]
		27710			1	0	Tested
		27710				24	Reduced[2]
		27710		16QAM	25	12	Reduced[3]
		27710			50	0	Reduced[1]
		27710			1	0	Reduced[4]
		27710				24	Reduced[4]
		All lower bandwidths (5 MHz)					Reduced[5]
	All remaining sides						Reduced[7]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.

Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.

Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.

Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.

Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.

Reduced[6]- If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Reduced[7] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 7 2500-2570 MHz	Back	20850	20 MHz	QPSK	50	0	Reduced[7]
		21100					Tested
		21350					Reduced[7]
		20850			100	0	Reduced[1]
		21100					Reduced[1]
		21350					Reduced[1]
		20850			1	49	Reduced[7]
		21100					Tested
		21350					Reduced[7]
		20850				99	Reduced[2]
		21100					Reduced[2]
		21350					Reduced[2]
		20850		16QAM	50	25	Reduced[3]
		21100					Reduced[3]
		21350					Reduced[3]
		20850			100	0	Reduced[1]
		21100					Reduced[1]
		21350					Reduced[1]
		20850			1	49	Reduced[4]
		21100					Reduced[4]
		21350					Reduced[4]
		20850				99	Reduced[4]
		21100					Reduced[4]
		21350					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	Top	20850	20 MHz	QPSK	50	25	Tested
		21100					Tested
		21350					Tested
		20850			100	0	Reduced[1]
		21100					Tested
		21350					Reduced[1]
		20850			1	49	Reduced[7]
		21100					Tested
		21350					Reduced[7]
		20850				99	Reduced[2]
		21100					Reduced[2]
		21350					Reduced[2]
		20850		16QAM	50	25	Reduced[3]
		21100					Reduced[3]
		21350					Reduced[3]
		20850			100	0	Reduced[1]
		21100					Reduced[1]
		21350					Reduced[1]
		20850			1	49	Reduced[4]
		21100					Reduced[4]
		21350					Reduced[4]
		20850				99	Reduced[4]
		21100					Reduced[4]
		21350					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7] – If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 7 2500-2570 MHz	Right	20850	20 MHz	QPSK	50	0	Reduced[7]
		21100					Tested
		21350					Reduced[7]
		20850			100	0	Reduced[1]
		21100					Reduced[1]
		21350					Reduced[1]
		20850			1	49	Reduced[7]
		21100					Tested
		21350					Reduced[7]
		20850				99	Reduced[2]
		21100					Reduced[2]
		21350					Reduced[2]
		20850		16QAM	50	25	Reduced[3]
		21100					Reduced[3]
		21350					Reduced[3]
		20850			100	0	Reduced[1]
		21100					Reduced[1]
		21350					Reduced[1]
		20850			1	49	Reduced[4]
		21100					Reduced[4]
		21350					Reduced[4]
		20850				99	Reduced[4]
		21100					Reduced[4]
		21350					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7] – If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 41 2496-2690 MHz	Back	39750	20 MHz	QPSK	50	0	Reduced[7]
		40135					Reduced[7]
		40620					Tested
		41105					Reduced[7]
		41490					Reduced[7]
		39750			100	0	Reduced[1]
		40135					Reduced[1]
		40620					Reduced[1]
		41105					Reduced[1]
		41490					Reduced[1]
		39750			1	49	Reduced[7]
		40135					Reduced[7]
		40620					Tested
		41105					Reduced[7]
		41490					Reduced[7]
		39750				99	Reduced[2]
		40135					Reduced[2]
		40620					Reduced[2]
		41105					Reduced[2]
		41490					Reduced[2]
		39750		16QAM	50	25	Reduced[3]
		40135					Reduced[3]
		40620					Reduced[3]
		41105					Reduced[3]
		41490					Reduced[3]
		39750			100	0	Reduced[1]
		40135					Reduced[1]
		40620					Reduced[1]
		41105					Reduced[1]
		41490					Reduced[1]
		39750			1	49	Reduced[4]
		40135					Reduced[4]
		40620					Reduced[4]
		41105					Reduced[4]
		41490					Reduced[4]
		39750				99	Reduced[4]
		40135					Reduced[4]
		40620					Reduced[4]
		41105					Reduced[4]
		41490					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7] – If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 41 2496-2690 MHz	Top	39750	20 MHz	QPSK	50	0	Reduced[7]
		40135					Reduced[7]
		40620					Tested
		41105					Reduced[7]
		41490					Reduced[7]
		39750			100	0	Reduced[1]
		40135					Reduced[1]
		40620					Tested
		41105					Reduced[1]
		41490					Reduced[1]
		39750			1	49	Tested
		40135					Tested
		40620					Tested
		41105					Tested
		41490					Tested
		39750				99	Reduced[2]
		40135					Reduced[2]
		40620					Reduced[2]
		41105					Reduced[2]
		41490					Reduced[2]
		39750		16QAM	50	25	Reduced[3]
		40135					Reduced[3]
		40620					Reduced[3]
		41105					Reduced[3]
		41490					Reduced[3]
		39750			100	0	Reduced[1]
		40135					Reduced[1]
		40620					Reduced[1]
		41105					Reduced[1]
		41490					Reduced[1]
		39750			1	49	Reduced[4]
		40135					Reduced[4]
		40620					Reduced[4]
		41105					Reduced[4]
		41490					Reduced[4]
		39750				99	Reduced[4]
		40135					Reduced[4]
		40620					Reduced[4]
		41105					Reduced[4]
		41490					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7] – If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 41 2496-2690 MHz	Right	39750	20 MHz	QPSK	50	0	Reduced[7]
		40135					Reduced[7]
		40620					Tested
		41105					Reduced[7]
		41490					Reduced[7]
		39750			100	0	Reduced[1]
		40135					Reduced[1]
		40620					Reduced[1]
		41105					Reduced[1]
		41490					Reduced[1]
		39750			1	49	Reduced[7]
		40135					Reduced[7]
		40620					Tested
		41105					Reduced[7]
		41490					Reduced[7]
		39750				99	Reduced[2]
		40135					Reduced[2]
		40620					Reduced[2]
		41105					Reduced[2]
		41490					Reduced[2]
		39750		16QAM	50	25	Reduced[3]
		40135					Reduced[3]
		40620					Reduced[3]
		41105					Reduced[3]
		41490					Reduced[3]
		39750			100	0	Reduced[1]
		40135					Reduced[1]
		40620					Reduced[1]
		41105					Reduced[1]
		41490					Reduced[1]
		39750			1	49	Reduced[4]
		40135					Reduced[4]
		40620					Reduced[4]
		41105					Reduced[4]
		41490					Reduced[4]
		39750				99	Reduced[4]
		40135					Reduced[4]
		40620					Reduced[4]
		41105					Reduced[4]
		41490					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7] – If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 38 2570-2620 MHz	Back	37850	20 MHz	QPSK	50	0	Reduced[7]
		38000					Tested
		38150					Reduced[7]
		37850			100	0	Reduced[1]
		38000					Reduced[1]
		38150					Reduced[1]
		37850			1	49	Reduced[7]
		38000					Tested
		38150					Reduced[7]
		37850				99	Reduced[2]
		38000					Reduced[2]
		38150					Reduced[2]
		37850		16QAM	50	25	Reduced[3]
		38000					Reduced[3]
		38150					Reduced[3]
		37850			100	0	Reduced[1]
		38000					Reduced[1]
		38150					Reduced[1]
		37850			1	49	Reduced[4]
		38000					Reduced[4]
		38150					Reduced[4]
		37850				99	Reduced[4]
		38000					Reduced[4]
		38150					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	Top	37850	20 MHz	QPSK	50	0	Reduced[7]
		38000					Tested
		38150					Reduced[7]
		37850			100	0	Reduced[1]
		38000					Reduced[1]
		38150					Reduced[1]
		37850			1	49	Reduced[7]
		38000					Tested
		38150					Reduced[7]
		37850				99	Reduced[2]
		38000					Reduced[2]
		38150					Reduced[2]
		37850		16QAM	50	25	Reduced[3]
		38000					Reduced[3]
		38150					Reduced[3]
		37850			100	0	Reduced[1]
		38000					Reduced[1]
		38150					Reduced[1]
		37850			1	49	Reduced[4]
		38000					Reduced[4]
		38150					Reduced[4]
		37850				99	Reduced[4]
		38000					Reduced[4]
		38150					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7] – If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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Band/ Frequency (MHz)	Side	Required Test Channel	Bandwidth	Modulation	RB Allocation	RB Offset	Tested/ Reduced
Band 38 2570-2620 MHz	Right	37850	20 MHz	QPSK	50	0	Reduced[7]
		38000					Tested
		38150					Reduced[7]
		37850			100	0	Reduced[1]
		38000					Reduced[1]
		38150					Reduced[1]
		37850			1	49	Reduced[7]
		38000					Tested
		38150					Reduced[7]
		37850				99	Reduced[2]
		38000					Reduced[2]
		38150					Reduced[2]
		37850		16QAM	50	25	Reduced[3]
		38000					Reduced[3]
		38150					Reduced[3]
		37850			100	0	Reduced[1]
		38000					Reduced[1]
		38150					Reduced[1]
		37850			1	49	Reduced[4]
		38000					Reduced[4]
		38150					Reduced[4]
		37850				99	Reduced[4]
		38000					Reduced[4]
		38150					Reduced[4]
		All lower bandwidths (15 MHz, 10 MHz, 5 MHz, 3 MHz, 1.4 MHz)					Reduced[5]
	All remaining sides						Reduced[6]

Reduced[1] – If the SAR value in the 50% RB testing is less than 1.45 W/kg, the 100% RB testing is reduced per KDB941225 D05 3) A) I) page 4.
Reduced[2] - If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 3) B) I) page 4.
Reduced[3] - If the SAR value in the 50% RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) A) I) page 4.
Reduced[4]- If the SAR value in the 1 RB testing is less than 1.45 W/kg, the remaining channels are reduced per KDB941225 D05 4) B) I) page 5.
Reduced[5]- If the conducted power is within ±0.5 dB, all testing where the SAR value is less than 1.45 W/kg is reduced per KDB941225 D05 5) B) I) page 5.
Reduced[6] – When the antenna is more than 25 mm from a side, the test can be reduced per KDB447498 D01 v06 section 4.3.1 1) page 11. See below for calculations.
Reduced[7] – If the SAR value measured on the middle channel is less than 0.8 W/kg and the conducted power is within ±0.5 dB, the remaining channels are reduced per KDB941225 D05 page 4 footnote 2.

Closest Distance to Left: 212.0 mm
Closest Distance to Bottom: 201 mm

Both sides are greater than 20 cm. Therefore, both are excluded from SAR testing.

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SAR Data Summary – 750 MHz Body – LTE Band 12

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency		BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
			MHz	Ch.					(dBm)		
0 mm	-----	Back	707.5	23095	10 MHz/QPSK	1	0	0	18.6	0.254	0.28
	-----		707.5	23095	10 MHz/QPSK	25	12	0	18.2	0.166	0.20
	-----	Top	707.5	23095	10 MHz/QPSK	1	0	0	18.6	0.431	0.47
	-----		707.5	23095	10 MHz/QPSK	25	12	0	18.2	0.282	0.34
	1	Right	707.5	23095	10 MHz/QPSK	1	0	0	18.6	0.705	0.77
	-----		707.5	23095	10 MHz/QPSK	25	0	0	18.2	0.405	0.49
	-----	Back w/Brown Case	711.0	23129	10 MHz/QPSK	1	0	0	18.6	0.107	0.12
	-----	Back w/Gray Case	711.0	23129	10 MHz/QPSK	1	0	0	18.6	0.143	0.16
	-----	Back w/Gray Case Laptop	711.0	23129	10 MHz/QPSK	1	0	0	22.7	0.0863	0.12

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

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SAR Data Summary – 750 MHz Body – LTE Band 13

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency		BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
			MHz	Ch.					(dBm)		
0 mm	-----	Back	782.0	23230	10 MHz/QPSK	1	0	0	19.1	0.282	0.31
	-----		782.0	23230	10 MHz/QPSK	25	12	0	18.5	0.206	0.26
	-----	Top	782.0	23230	10 MHz/QPSK	1	0	0	19.1	0.411	0.45
	-----		782.0	23230	10 MHz/QPSK	25	12	0	18.5	0.241	0.30
	2	Right	782.0	23230	10 MHz/QPSK	1	0	0	19.1	0.606	0.66
	-----		782.0	23230	10 MHz/QPSK	25	0	0	18.5	0.427	0.54
	-----	Back w/Brown Case	782.0	23230	10 MHz/QPSK	1	0	0	19.1	0.136	0.15
	-----	Back w/Gray Case	782.0	23230	10 MHz/QPSK	1	0	0	19.1	0.170	0.19
	-----	Back w/Gray Case Laptop	782.0	23230	10 MHz/QPSK	1	0	0	23.2	0.0922	0.11

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

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Vice President

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SAR Data Summary – 750 MHz Body – LTE Band 14

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency		BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
			MHz	Ch.					(dBm)		
0 mm	-----	Back	793.0	23330	10 MHz/QPSK	1	0	0	21.2	0.417	0.45
	-----		793.0	23330	10 MHz/QPSK	25	12	0	21.2	0.320	0.34
	-----	Top	793.0	23330	10 MHz/QPSK	1	0	0	21.2	0.677	0.73
	-----		793.0	23330	10 MHz/QPSK	25	12	0	21.2	0.533	0.57
	3	Right	793.0	23330	10 MHz/QPSK	1	0	0	21.2	0.817	0.88
	-----		793.0	23330	10 MHz/QPSK	25	12	0	21.2	0.648	0.69
	-----		793.0	23330	10 MHz/QPSK	50	0	0	21.0	0.611	0.69
	-----	Back w/Brown Case	793.0	23330	10 MHz/QPSK	1	0	0	21.2	0.122	0.13
	-----	Back w/Gray Case	793.0	23330	10 MHz/QPSK	1	0	0	21.2	0.158	0.17
	-----	Back w/Gray Case Laptop	793.0	23330	10 MHz/QPSK	1	0	0	23.2	0.0816	0.10
	-----	Repeated	793.0	23330	10 MHz/QPSK	1	0	0	21.2	0.796	0.85

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

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SAR Data Summary – 835 MHz Body - WCDMA

MEASUREMENT RESULTS

Gap	Plot	Frequency		Modulation	Position	End Power	RMC	Test Set Up	Measured SAR	Reported SAR
		MHz	Ch.			(dBm)			(W/kg)	(W/kg)
0 mm	----	836.6	4183	WCDMA	Back	17.42	12.2 kbps	Test Loop 1	0.712	0.81
	----	826.4	4132	WCDMA	Top	17.25	12.2 kbps	Test Loop 1	0.859	1.02
	4	836.6	4183	WCDMA		17.42	12.2 kbps	Test Loop 1	0.923	1.06
	----	846.6	4233	WCDMA		17.39	12.2 kbps	Test Loop 1	0.847	0.98
	----	836.6	4183	WCDMA	Right	17.42	12.2 kbps	Test Loop 1	0.647	0.74
	----	836.6	4183	WCDMA	Back w/Brown Case	17.42	12.2 kbps	Test Loop 1	0.493	0.56
	----	836.6	4183	WCDMA	Back w/Gray Case	17.42	12.2 kbps	Test Loop 1	0.641	0.73
	----	836.6	4183	WCDMA	Back w/Gray Case Laptop	23.92	12.2 kbps	Test Loop 1	0.136	0.04
	----	836.6	4183	WCDMA	Repeat	17.42	12.2 kbps	Test Loop 1	0.905	1.03

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

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Vice President

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SAR Data Summary – 835 MHz Body – LTE Bands 26

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency		BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR	Reported SAR
			MHz	Ch.					(dBm)	(W/kg)	(W/kg)
0 mm	-----	Back	831.5	26865	10 MHz/QPSK	1	0	0	20.0	0.622	0.70
	-----		831.5	26865	10 MHz/QPSK	25	0	0	19.5	0.402	0.51
	-----	Top	831.5	26865	10 MHz/QPSK	1	0	0	20.0	0.693	0.78
	-----		831.5	26865	10 MHz/QPSK	25	0	0	19.5	0.463	0.58
	-----	Right	819.0	26740	10 MHz/QPSK	1	0	0	19.7	0.683	0.82
	5		831.5	26865	10 MHz/QPSK	1	0	0	20.0	0.750	0.84
	-----		844.0	26990	10 MHz/QPSK	1	0	0	19.5	0.657	0.83
	-----		831.5	26865	10 MHz/QPSK	25	0	0	19.5	0.503	0.63
	-----	Back w/Brown Case	831.5	26865	10 MHz/QPSK	1	0	0	20.0	0.193	0.22
	-----	Back w/Gray Case	831.5	26865	10 MHz/QPSK	1	0	0	20.0	0.187	0.21
	-----	Back w/Gray Case Laptop	831.5	26865	10 MHz/QPSK	1	0	0	22.8	0.0628	0.08
	-----	Repeated	831.5	26865	10 MHz/QPSK	1	0	0	20.0	0.732	0.82

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

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Vice President

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SAR Data Summary – 1750 MHz Body - WCDMA

MEASUREMENT RESULTS

Gap	Plot	Frequency MHz	Frequency Ch.	Rev Level/ Modulation	Position	End Power (dBm)	RMC	Test Set Up	Measured SAR (W/kg)	Reported SAR (W/kg)
0 mm	----	1712.4	1312	WCDMA	Back	14.18	12.2 kbps	Test Loop 1	0.647	0.98
	----	1732.6	1413	WCDMA		14.39	12.2 kbps	Test Loop 1	0.680	0.99
	----	1752.6	1513	WCDMA		14.12	12.2 kbps	Test Loop 1	0.671	1.03
	----	1712.4	1312	WCDMA	Top	14.18	12.2 kbps	Test Loop 1	0.647	0.98
	6	1732.6	1413	WCDMA		14.39	12.2 kbps	Test Loop 1	0.711	1.03
	----	1752.6	1513	WCDMA		14.12	12.2 kbps	Test Loop 1	0.635	0.98
	----	1712.4	1312	WCDMA	Right	14.39	12.2 kbps	Test Loop 1	0.221	0.32
	----	1732.6	1413	WCDMA	Back w/Brown Case	14.39	12.2 kbps	Test Loop 1	0.547	0.79
	----	1732.6	1413	WCDMA	Back w/Gray Case	14.39	12.2 kbps	Test Loop 1	0.582	0.84
	----	1732.6	1413	WCDMA	Back w/Gray Case Laptop	24.72	12.2 kbps	Test Loop 1	0.113	0.12
	----	1732.6	1413	WCDMA	Repeat	14.39	12.2 kbps	Test Loop 1	0.698	1.01
						Body 1.6 W/kg (mW/g) averaged over 1 gram				

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

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Vice President

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SAR Data Summary – 1750 MHz Body – LTE Band 4 & 66

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency MHz	Frequency Ch.	BW/ Modulation	RB Size	RB Offset	MPR Target	End Power (dBm)	Measured SAR (W/kg)	Reported SAR (W/kg)
0 mm	-----	Back	1732.5	20175	20 MHz/QPSK	1	0	0	15.2	0.295	0.36
	-----		1732.5	20175	20 MHz/QPSK	50	0	0	15.1	0.287	0.35
	-----	Top	1720.0	20050	20 MHz/QPSK	1	0	0	15.2	0.741	0.89
	-----		1732.5	20175	20 MHz/QPSK	1	0	0	15.2	0.783	0.94
	-----		1745.0	20300	20 MHz/QPSK	1	0	0	15.5	0.759	0.85
	-----		1732.5	20175	20 MHz/QPSK	50	0	0	15.1	0.739	0.91
	-----	Right	1732.5	20175	20 MHz/QPSK	1	0	0	15.2	0.123	0.15
	-----		1732.5	20175	20 MHz/QPSK	50	0	0	15.1	0.119	0.15
	-----	Back w/Brown Case	1732.5	20175	20 MHz/QPSK	1	0	0	15.2	0.108	0.13
	-----	Back w/Gray Case	1732.5	20175	20 MHz/QPSK	1	0	0	15.2	0.106	0.13
	-----	Back w/Gray Case Laptop	1732.5	20175	20 MHz/QPSK	1	0	0	23.6	0.0952	0.12
	-----	Back	1745.0	132322	20 MHz/QPSK	1	0	0	14.5	0.306	0.34
	-----		1745.0	132322	20 MHz/QPSK	50	0	0	14.0	0.300	0.38
	-----	Top	1720.0	132072	20 MHz/QPSK	1	0	0	14.1	0.762	0.94
	7		1745.0	132322	20 MHz/QPSK	1	0	0	14.5	0.858	0.96
	-----		1770.0	132571	20 MHz/QPSK	1	0	0	14.5	0.746	0.84
	-----		1745.0	132322	20 MHz/QPSK	50	0	0	14.2	0.763	0.92
	-----	Right	1745.0	132322	20 MHz/QPSK	1	0	0	14.5	0.138	0.15
	-----		1745.0	132322	20 MHz/QPSK	50	0	0	14.0	0.127	0.16
	-----	Back w/Brown Case	1745.0	132322	20 MHz/QPSK	1	0	0	14.5	0.117	0.13
	-----	Back w/Gray Case	1745.0	132322	20 MHz/QPSK	1	0	0	14.5	0.114	0.13
	-----	Back w/Gray Case Laptop	1745.0	132322	20 MHz/QPSK	1	0	0	23.5	0.0976	0.12
	-----	Repeated	1745.0	132322	20 MHz/QPSK	1	0	0	14.5	0.834	0.94

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

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SAR Data Summary – 1900 MHz Body - WCDMA

MEASUREMENT RESULTS

Gap	Plot	Frequency MHz	Frequency Ch.	Rev Level/ Modulation	Position	End Power (dBm)	RMC	Test Set Up	Measured SAR (W/kg)	Reported SAR (W/kg)
0 mm	----	1880.0	9400	WCDMA	Back	14.97	12.2 kbps	Test Loop 1	0.683	0.87
	----	1852.4	9262	WCDMA	Top	14.92	12.2 kbps	Test Loop 1	0.832	1.07
	8	1880.0	9400	WCDMA		14.97	12.2 kbps	Test Loop 1	0.886	1.12
	----	1907.6	9538	WCDMA		14.95	12.2 kbps	Test Loop 1	0.811	1.03
	----	1880.0	9400	WCDMA	Right	14.97	12.2 kbps	Test Loop 1	0.204	0.26
	----	1880.0	9400	WCDMA	Back w/Brown Case	14.97	12.2 kbps	Test Loop 1	0.435	0.55
	----	1880.0	9400	WCDMA	Back w/Gray Case	14.97	12.2 kbps	Test Loop 1	0.457	0.58
	----	1880.0	9400	WCDMA	Back w/Gray Case Laptop	24.03	12.2 kbps	Test Loop 1	0.182	0.20
	----	1880.0	9400	WCDMA	Repeat	14.97	12.2 kbps	Test Loop 1	0.864	1.10

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

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SAR Data Summary – 1900 MHz Body – LTE Band 2 & 25

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency MHz	Frequency Ch.	BW/ Modulation	RB Size	RB Offset	MPR Target	End Power (dBm)	Measured SAR (W/kg)	Reported SAR (W/kg)
0 mm	-----	Back	1880.0	18900	20 MHz/QPSK	1	0	0	16.1	0.235	0.26
	-----		1880.0	18900	20 MHz/QPSK	50	0	0	16.0	0.346	0.39
	-----	Top	1880.0	18900	20 MHz/QPSK	1	0	0	16.1	0.572	0.63
	-----		1880.0	18900	20 MHz/QPSK	50	0	0	16.0	0.566	0.64
	-----	Right	1880.0	18900	20 MHz/QPSK	1	0	0	16.1	0.108	0.12
	-----		1880.0	18900	20 MHz/QPSK	50	0	0	16.0	0.101	0.11
	-----	Back w/Brown Case	1880.0	18900	20 MHz/QPSK	1	0	0	16.1	0.102	0.11
	-----	Back w/Gray Case	1880.0	18900	20 MHz/QPSK	1	0	0	16.1	0.111	0.12
	-----	Back w/Gray Case Laptop	1880.0	18900	20 MHz/QPSK	1	0	0	22.5	0.0956	0.14
	-----	Back	26365	1882.5	20 MHz/QPSK	1	0	0	15.4	0.221	0.25
	-----		26365	1882.5	20 MHz/QPSK	50	0	0	15.0	0.388	0.49
	9	Top	26365	1882.5	20 MHz/QPSK	1	0	0	15.4	0.616	0.71
	-----		26365	1882.5	20 MHz/QPSK	50	0	0	15.0	0.548	0.69
	-----	Right	26365	1882.5	20 MHz/QPSK	1	0	0	15.4	0.102	0.12
	-----		26365	1882.5	20 MHz/QPSK	50	0	0	15.0	0.0943	0.12
	-----	Back w/Brown Case	26365	1882.5	20 MHz/QPSK	1	0	0	15.4	0.109	0.13
	-----	Back w/Gray Case	26365	1882.5	20 MHz/QPSK	1	0	0	15.4	0.117	0.13
	-----	Back w/Gray Case Laptop	26365	1882.5	20 MHz/QPSK	1	0	0	22.8	0.0946	0.13

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

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SAR Data Summary – 2300 MHz Body – LTE Band 30

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency		BW/ Modulation	RB Size	RB Offset	MPR Target	End Power (dBm)	Measured SAR (W/kg)	Reported SAR (W/kg)
			MHz	Ch.							
0 mm	-----	Back	2310	27710	10 MHz/QPSK	1	0	0	12.7	0.525	0.63
	-----		2310	27710	10 MHz/QPSK	25	12	0	12.8	0.420	0.49
	10	Top	2310	27710	10 MHz/QPSK	1	0	0	12.7	0.992	1.19
	-----		2310	27710	10 MHz/QPSK	25	12	0	12.8	0.809	0.95
	-----		2310	27710	10 MHz/QPSK	50	0	0	12.6	0.769	0.95
	-----	Right	2310	27710	10 MHz/QPSK	1	0	0	12.7	0.147	0.18
	-----		2310	27710	10 MHz/QPSK	25	12	0	12.8	0.159	0.19
	-----	Back w/Brown Case	2310	27710	10 MHz/QPSK	1	0	0	12.7	0.236	0.28
	-----	Back w/Gray Case	2310	27710	10 MHz/QPSK	1	0	0	12.7	0.229	0.28
	-----	Back w/Gray Case Laptop	2310	27710	10 MHz/QPSK	1	0	0	22.0	0.104	0.13
	-----	Repeat	2310	27710	10 MHz/QPSK	1	0	0	12.7	0.975	1.17

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

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SAR Data Summary – 2500 MHz Body – LTE Band 7

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency MHz	Frequency Ch.	BW/ Modulation	RB Size	RB Offset	MPR Target	End Power (dBm)	Measured SAR (W/kg)	Reported SAR (W/kg)
0 mm	-----	Back	2535.0	21100	20 MHz/QPSK	1	0	0	13.4	0.505	0.58
	-----		2535.0	21100	20 MHz/QPSK	50	0	0	13.6	0.398	0.44
	-----	Top	2507.5	20850	20 MHz/QPSK	1	0	0	13.7	0.796	0.85
	11		2535.0	21100	20 MHz/QPSK	1	0	0	13.4	0.849	0.98
	-----		2562.5	21350	20 MHz/QPSK	1	0	0	13.6	0.821	0.90
	-----		2535.0	21100	20 MHz/QPSK	50	0	0	13.6	0.679	0.75
	-----		2535.0	21100	20 MHz/QPSK	100	0	0	13.3	0.602	0.71
	-----	Right	2535.0	21100	20 MHz/QPSK	1	0	0	13.4	0.563	0.65
	-----		2535.0	21100	20 MHz/QPSK	50	0	0	13.6	0.448	0.49
	-----	Back w/Brown Case	2535.0	21100	20 MHz/QPSK	1	0	0	13.4	0.146	0.17
	-----	Back w/Gray Case	2535.0	21100	20 MHz/QPSK	1	0	0	13.4	0.195	0.22
	-----	Back w/Gray Case Laptop	2535.0	21100	20 MHz/QPSK	1	0	0	23.9	0.0866	0.10
	-----	Repeat	2535.0	21100	20 MHz/QPSK	1	0	0	13.4	0.822	0.94

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

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SAR Data Summary –LTE Bands 38 & 41

MEASUREMENT RESULTS

Gap	Plot	Position	Frequency		BW/ Modulation	RB Size	RB Offset	MPR Target	End Power	Measured SAR	Reported SAR
			MHz	Ch.					(dBm)	(W/kg)	(W/kg)
0 mm	-----	Back	2595	38000	20 MHz/QPSK	1	0	0	16.7	0.321	0.39
	-----		2595	38000	20 MHz/QPSK	50	24	0	16.7	0.336	0.40
	-----	Top	2595	38000	20 MHz/QPSK	1	0	0	16.7	0.737	0.89
	-----		2595	38000	20 MHz/QPSK	50	24	0	16.7	0.642	0.77
	-----	Right	2595	38000	20 MHz/QPSK	1	0	0	16.7	0.359	0.43
	-----		2595	38000	20 MHz/QPSK	50	24	0	16.7	0.372	0.45
	-----	Back w/Brown Case	2595	38000	20 MHz/QPSK	1	0	0	16.7	0.0973	0.12
	-----	Back w/Gray Case	2595	38000	20 MHz/QPSK	1	0	0	16.7	0.106	0.13
	-----	Back w/Gray Case Laptop	2595	38000	20 MHz/QPSK	1	0	0	22.6	0.0371	0.05
	-----	Back	2593	40620	20 MHz/QPSK	1	0	0	14.6	0.460	0.57
	-----		2593	40620	20 MHz/QPSK	50	24	0	14.8	0.467	0.55
	-----	Top	2506	39750	20 MHz/QPSK	1	0	0	14.7	0.806	0.97
	-----		2549.5	40185	20 MHz/QPSK	1	0	0	14.5	0.796	1.00
	12		2593	40620	20 MHz/QPSK	1	0	0	14.6	0.811	1.00
	-----		2636.5	41055	20 MHz/QPSK	1	0	0	14.9	0.782	0.90
	-----		2680	41490	20 MHz/QPSK	1	0	0	15.2	0.793	0.85
	-----		2593	40620	20 MHz/QPSK	50	24	0	14.8	0.711	0.84
	-----		2593	40620	20 MHz/QPSK	100	0	0	14.5	0.673	0.85
	-----	Right	2593	40620	20 MHz/QPSK	1	0	0	14.6	0.424	0.52
	-----		2593	40620	20 MHz/QPSK	50	24	0	14.8	0.474	0.56
	-----	Back w/Brown Case	2593	40620	20 MHz/QPSK	1	0	0	14.6	0.103	0.13
	-----	Back w/Gray Case	2593	40620	20 MHz/QPSK	1	0	0	14.6	0.126	0.16
	-----	Back w/Gray Case Laptop	2593	40620	20 MHz/QPSK	1	0	0	22.8	0.0452	0.06
	-----	Repeated	2593	40620	20 MHz/QPSK	1	0	0	14.6	0.796	0.98

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
2. Test Signal Call Mode ☐Test Code ☒Base Station Simulator
3. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
4. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05 v02r05 clause 5.4. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05 v02r05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4. A duty cycle of 1:1.58 is the highest duty cycle achievable which was used for testing Band 41.

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SAR Data Summary – 2450 MHz Body 802.11b & BT

MEASUREMENT RESULTS

Plot	Gap	Antenna	Position	Frequency MHz	Frequency Ch.	Modulation	Antenna	End Power (dBm)	Measured SAR (W/kg)	Reported SAR (W/kg)
-----	0 mm	Inpaq	Back	2437	6	DSSS	Main	17.00	0.567	0.57
-----				2462	11	DSSS		17.00	0.522	0.52
13				2437	6	DSSS	Aux	17.00	0.923	0.92
-----				2462	11	DSSS		17.00	0.839	0.84
-----			Top	2437	6	DSSS	Main	17.00	0.163	0.16
-----				2437	6	DSSS	Aux	17.00	0.354	0.35
-----			Back	2440	39	GFSK	Aux	11.47	0.109	0.11
-----			Top	2440	39	GFSK		11.47	0.0587	0.06
-----			Back w/Brn Case	2437	6	DSSS	Main	17.00	0.175	0.18
-----				2437	6	DSSS	Aux	17.00	0.210	0.21
-----			Back w/Gry Case	2437	6	DSSS	Main	17.00	0.236	0.24
-----				2437	6	DSSS	Aux	17.00	0.357	0.36
-----			Repeated	2437	6	DSSS	Aux	17.00	0.904	0.90

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. Battery is fully charged for all tests.
   Power Measured ☒Conducted ☐ERP ☐EIRP
2. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
3. Test Signal Call Mode ☒Test Code ☐Base Station Simulator
4. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
5. Tissue Depth is at least 15.0 cm

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Vice President

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SAR Data Summary – 5250 MHz Body 802.11a

MEASUREMENT RESULTS										
Plot	Gap	Antenna	Position	Frequency		Modulation	Antenna	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
				MHz	Ch.			(dBm)		
-----	0 mm	Inpaq	Back	5300	60	OFDM	Main	17.00	0.346	0.35
14				5280	56	OFDM	Aux	17.00	0.951	0.95
-----				5300	60	OFDM		17.00	0.914	0.91
-----			Top	5300	60	OFDM	Main	17.00	0.372	0.37
-----				5280	56	OFDM	Aux	17.00	0.443	0.44
-----				5300	60	OFDM		17.00	0.457	0.46
-----			Back w/Brn Case	5300	60	OFDM	Main	17.00	0.133	0.13
-----				5300	60	OFDM	Aux	17.00	0.201	0.20
-----			Back w/Gry Case	5300	60	OFDM	Main	17.00	0.124	0.12
-----				5300	60	OFDM	Aux	17.00	0.298	0.30
-----			Repeated	5280	56	OFDM	Aux	17.00	0.934	0.93

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. Battery is fully charged for all tests.
   Power Measured ☒Conducted ☐ERP ☐EIRP
2. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
3. Test Signal Call Mode ☒Test Code ☐Base Station Simulator
4. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
5. Tissue Depth is at least 15.0 cm

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Vice President

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SAR Data Summary – 5600 MHz Body 802.11a

MEASUREMENT RESULTS										
Plot	Gap	Antenna	Position	Frequency		Modulation	Antenna	End Power	Measured SAR	Reported SAR
				MHz	Ch.			(dBm)	(W/kg)	(W/kg)
-----	0 mm	Inpaq	Back	5620	124	OFDM	Main	17.00	0.331	0.33
-----				5580	116	OFDM	Aux	17.00	0.478	0.48
-----				5620	124	OFDM		17.00	0.502	0.50
-----			Top	5580	116	OFDM	Main	17.00	0.471	0.47
-----				5620	124	OFDM		17.00	0.531	0.53
-----				5580	116	OFDM	Aux	17.00	0.575	0.58
15				5620	124	OFDM		17.00	0.579	0.58
-----			Back w/Brn Case	5620	124	OFDM	Main	17.00	0.0879	0.09
-----				5620	124	OFDM	Aux	17.00	0.102	0.10
-----			Back w/Gry Case	5620	124	OFDM	Main	17.00	0.0726	0.07
-----				5620	124	OFDM	Aux	17.00	0.105	0.11

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. Battery is fully charged for all tests.
   Power Measured ☒Conducted ☐ERP ☐EIRP
2. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
3. Test Signal Call Mode ☒Test Code ☐Base Station Simulator
4. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
5. Tissue Depth is at least 15.0 cm

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Vice President

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SAR Data Summary – 5800 MHz Body 802.11a

MEASUREMENT RESULTS										
Plot	Gap	Antenna	Position	Frequency		Modulation	Antenna	End Power	Measured SAR (W/kg)	Reported SAR (W/kg)
				MHz	Ch.			(dBm)		
-----	0 mm	Inpaq	Back	5785	157	OFDM	Main	17.00	0.464	0.46
-----				5825	165	OFDM		17.00	0.488	0.49
-----				5785	157	OFDM	Aux	17.00	0.464	0.46
16				5825	165	OFDM		17.00	0.510	0.51
-----			Top	5785	157	OFDM	Main	17.00	0.498	0.50
-----				5825	165	OFDM		17.00	0.489	0.49
-----				5785	157	OFDM	Aux	17.00	0.491	0.49
-----				5825	165	OFDM		17.00	0.480	0.48
-----			Back w/Brn Case	5785	157	OFDM	Main	17.00	0.133	0.13
-----				5785	157	OFDM	Aux	17.00	0.0503	0.05
-----			Back w/Gry Case	5785	157	OFDM	Main	17.00	0.123	0.12
-----				5785	157	OFDM	Aux	17.00	0.0920	0.09

Body
1.6 W/kg (mW/g)
averaged over 1 gram

1. Battery is fully charged for all tests.
   Power Measured ☒Conducted ☐ERP ☐EIRP
2. SAR Measurement
   Phantom Configuration ☐Left Head ☒Eli4 ☐Right Head
   SAR Configuration ☐Head ☒Body
3. Test Signal Call Mode ☒Test Code ☐Base Station Simulator
4. Test Configuration ☐With Belt Clip ☐Without Belt Clip ☒N/A
5. Tissue Depth is at least 15.0 cm

Jay M. Moulton
Vice President

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SAR Data Summary – Simultaneous Evaluation

MEASUREMENT RESULTS – WWAN-WiFi (Main)								
Frequency		Modulation	Frequency		Modulation	SAR_1	SAR_2	SAR Total
MHz	Ch.		MHz	Ch.				
2437	6	DSSS	2310	27710	QPSK	0.57	1.19	1.76
					Body **1.6 W/kg (mW/g)** averaged over 1 gram			

The WWAN and main hotspots are a minimum of 56 mm apart. Using the highest reported SAR to calculate the simultaneous Tx using peak separation ratio, the highest ratio would be 0.04 which meets the requirements of KDB 447498 section 4.3.2 3) on page 13. The calculation is shown below.

Simultaneous Separation Ratio Calculation

$(SAR_1 + SAR_2)^{1.5}/R_i \leq 0.04$ rounded to two digits

$(0.57 + 1.19)^{1.5}/56 = 0.04$

MEASUREMENT RESULTS – WWAN-WiFi (Aux)								
Frequency		Modulation	Frequency		Modulation	SAR_1	SAR_2	SAR Total
MHz	Ch.		MHz	Ch.				
5280	56	OFDM	782.0	23230	QPSK	0.95	1.19	2.14
					Body **1.6 W/kg (mW/g)** averaged over 1 gram			

The WWAN and aux antennas are a minimum of 116 mm apart. Using the highest reported SAR to calculate the simultaneous Tx using peak separation ratio, the highest ratio would be 0.03 which meets the requirements of KDB 447498 section 4.3.2 3) on page 13. The calculation is shown below.

Simultaneous Separation Ratio Calculation

$(SAR_1 + SAR_2)^{1.5}/R_i \leq 0.04$ rounded to two digits

$(0.95 + 1.19)^{1.5}/116 = 0.03$

MEASUREMENT RESULTS – BT								
Frequency		Modulation	Frequency		Modulation	SAR_1	SAR_2	SAR Total
MHz	Ch.		MHz	Ch.				
2437	6	DSSS	2440	39	GFSK	0.57	0.11	0.68
5300	60	OFDM	2440	39	GFSK	0.37	0.11	0.48
5620	124	OFDM	2440	39	GFSK	0.53	0.11	0.64
5785	157	OFDM	2440	39	GFSK	0.50	0.11	0.61
					Body **1.6 W/kg (mW/g)** averaged over 1 gram			

The sum of the two transmitters is less than the limit; therefore, the simultaneous transmission meets the requirements of KDB447498 D01 v06 section 4.3.2 page 11.

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MEASUREMENT RESULTS – MIMO (No BT)								
Frequency		Modulation	Frequency		Modulation	SAR_1	SAR_2	SAR Total
MHz	Ch.		MHz	Ch.				
2437	6	DSSS	2437	6	DSSS	0.57	0.92	1.49
5300	60	OFDM	5280	56	OFDM	0.37	0.95	1.32
5620	124	OFDM	5620	124	OFDM	0.53	0.58	1.11
5785	157	OFDM	5825	165	OFDM	0.50	0.51	1.01
						Body **1.6 W/kg (mW/g)** averaged over 1 gram		

The sum of the two transmitters is less than the limit; therefore, the simultaneous transmission meets the requirements of KDB447498 D01 v06 section 4.3.2 page 11.

MEASUREMENT RESULTS – MIMO (With BT)								
Frequency		Modulation	Frequency		Modulation	SAR_1	SAR_2 + BT	SAR Total
MHz	Ch.		MHz	Ch.				
5300	60	OFDM	5280	56	OFDM	0.37	1.06	1.43
5620	124	OFDM	5620	124	OFDM	0.53	0.69	1.22
5785	157	OFDM	5825	165	OFDM	0.50	0.62	1.12
						Body **1.6 W/kg (mW/g)** averaged over 1 gram		

The sum of the two transmitters is less than the limit; therefore, the simultaneous transmission meets the requirements of KDB447498 D01 v06 section 4.3.2 page 11.

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11. Test Equipment List

Table 11.1 Equipment Specifications

Type	Calibration Due Date	Calibration Done Date	Serial Number
Staubli Robot TX60L	N/A	N/A	F07/55M6A1/A/01
Measurement Controller CS8c	N/A	N/A	1012
ELI4 Flat Phantom	N/A	N/A	1065
Device Holder	N/A	N/A	N/A
Data Acquisition Electronics 4	08/10/2019	08/10/2018	759
Data Acquisition Electronics 4	04/16/2020	04/16/2019	1416
SPEAG E-Field Probe EX3DV4	04/24/2020	04/24/2019	3662
SPEAG E-Field Probe EX3DV4	08/27/2019	08/27/2018	3693
Speag Validation Dipole D750V2	07/13/2019	07/13/2018	1016
Speag Validation Dipole D835V2	07/13/2019	07/13/2018	4d089
Speag Validation Dipole D1750V2	07/20/2019	07/20/2018	1018
Speag Validation Dipole D1900V2	07/13/2019	07/13/2018	5d116
Speag Validation Dipole D2300V2	08/20/2019	08/20/2018	1060
Speag Validation Dipole D2550V2	07/12/2019	07/12/2018	1003
Speag Validation Dipole D2450V2	07/12/2019	07/12/2018	829
Speag Validation Dipole D5GHzV2	07/19/2019	07/19/2018	1085
Agilent N1911A Power Meter	04/27/2020	04/27/2019	GB45100254
Agilent N1922A Power Sensor	04/27/2020	04/27/2019	MY45240464
Advantest R3261A Spectrum Analyzer	03/25/2020	03/25/2019	31720068
Agilent (HP) 8350B Signal Generator	03/20/2020	03/20/2019	2749A10226
Agilent (HP) 83525A RF Plug-In	03/20/2020	03/20/2019	2647A01172
Agilent (HP) 8753C Vector Network Analyzer	03/20/2020	03/20/2019	3135A01724
Agilent (HP) 85047A S-Parameter Test Set	03/20/2020	03/20/2019	2904A00595
Agilent (HP) 8960 Base Station Sim.	03/19/2020	03/19/2019	MY48360364
Anritsu MT8820C	01/26/2020	01/26/2019	6201176199
Aprel Dielectric Probe Assembly	N/A	N/A	0011
Body Equivalent Matter (750 MHz)	N/A	N/A	N/A
Body Equivalent Matter (835 MHz)	N/A	N/A	N/A
Body Equivalent Matter (1750 MHz)	N/A	N/A	N/A
Body Equivalent Matter (1900 MHz)	N/A	N/A	N/A
Body Equivalent Matter (2300 MHz)	N/A	N/A	N/A
Body Equivalent Matter (2550 MHz)	N/A	N/A	N/A
Body Equivalent Matter (2450 MHz)	N/A	N/A	N/A
Body Equivalent Matter (5 GHz)	N/A	N/A	N/A

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12. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the FCC/IC. These measurements are taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The tested device complies with the requirements in respect to all parameters subject to the test. The test results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body is a very complex phenomena that depends on the mass, shape, and size of the body; the orientation of the body with respect to the field vectors; and, the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because innumerable factors may interact to determine the specific biological outcome of an exposure to electromagnetic fields, any protection guide shall consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

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13. References

[1] Federal Communications Commission, ET Docket 93-62, Guidelines for Evaluating the Environmental Effects of Radio Frequency Radiation, August 1996

[2] ANSI/IEEE C95.1 – 1992, American National Standard Safety Levels with respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300kHz to 100GHz, New York: IEEE, 1992.

[3] ANSI/IEEE C95.3 – 1992, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave, New York: IEEE, 1992.

[4] International Electrotechnical Commission, IEC 62209-2 (Edition 1.0), Human Exposure to radio frequency fields from hand-held and body mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), March 2010.

[5] IEEE Standard 1528 – 2013, IEEE Recommended Practice for Determining the Peak-Spatial Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communication Devices: Measurement Techniques, June 2013.

[6] Industry Canada, RSS – 102 Issue 5, Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands), March 2015.

[7] Health Canada, Safety Code 6, Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3kHz to 300 GHz, 2009.

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Appendix A – System Validation Plots and Data

```
************************************************************
Test Result for UIM Dielectric Parameter
Wed 29/May/2019
Freq   Frequency(GHz)
FCC_eB Limits for Body Epsilon
FCC_sB Limits for Body Sigma
Test_e Epsilon  of  UIM
Test_s Sigma of UIM
************************************************************
```

Freq	FCC_eB	FCC_sB	Test_e	Test_s
0.7000	55.73	0.96	55.60	0.95
0.7040	55.714	0.96	55.588	0.954*
0.7075	55.70	0.96	55.578	0.958*
0.7100	55.69	0.96	55.57	0.96
0.7110	55.686	0.96	55.567	0.96*
0.7200	55.65	0.96	55.54	0.96
0.7300	55.61	0.96	55.51	0.97
0.7400	55.57	0.96	55.48	0.97
0.7500	55.53	0.96	55.45	0.97
0.7600	55.49	0.96	55.42	0.98
0.7700	55.45	0.96	55.38	0.98
0.7800	55.41	0.97	55.32	0.98
0.7820	55.404	0.97	55.316	0.982*
0.7900	55.38	0.97	55.30	0.99
0.7930	55.368	0.97	55.288	0.99*
0.8000	55.34	0.97	55.26	0.99

* value interpolated

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```
************************************************************
Test Result for UIM Dielectric Parameter
Tue 28/May/2019
Freq   Frequency(GHz)
FCC_eB Limits for Body Epsilon
FCC_sB Limits for Body Sigma
Test_e Epsilon  of  UIM
Test_s Sigma of UIM
************************************************************
Freq          FCC_eB FCC_sB Test_e Test_s
0.8050        55.32  0.97   54.58  0.95
0.8150        55.28  0.97   54.53  0.96
0.8190        55.264 0.97   54.51  0.964*
0.8250        55.24  0.97   54.48  0.97
0.8264        55.234 0.97   54.474 0.971*
0.8315        55.214 0.97   54.454 0.977*
0.8350        55.20  0.97   54.44  0.98
0.8365        55.196 0.972  54.433 0.982*
0.8366        55.195 0.972  54.432 0.982*
0.8440        55.173 0.979  54.395 0.989*
0.8450        55.17  0.98   54.39  0.99
0.8466        55.165 0.982  54.387 0.992*
0.8550        55.14  0.99   54.37  1.00
0.8650        55.11  1.01   54.33  1.01
0.8750        55.08  1.02   53.31  1.02
0.8850        55.05  1.03   54.26  1.03
0.8950        55.02  1.04   54.23  1.04

* value interpolated


************************************************************
Test Result for UIM Dielectric Parameter
Fri 31/May/2019
Freq   Frequency(GHz)
FCC_eB Limits for Body Epsilon
FCC_sB Limits for Body Sigma
Test_e Epsilon  of  UIM
Test_s Sigma of UIM
************************************************************
Freq          FCC_eB FCC_sB Test_e Test_s
1.7100        53.53  1.47   53.34  1.47
1.7124        53.525 1.47   53.333 1.472*
1.7200        53.51  1.47   53.31  1.48
1.7300        53.48  1.48   53.27  1.49
1.7326        53.475 1.48   53.265 1.493*
1.7400        53.46  1.48   53.25  1.50
1.7450        53.445 1.485  53.23  1.505*
1.7500        53.43  1.49   53.21  1.51
1.7526        53.425 1.49   53.205 1.513*
1.7600        53.41  1.49   53.19  1.52
1.7700        53.38  1.50   53.16  1.53
1.7800        53.35  1.51   53.12  1.54

* value interpolated
```


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```
************************************************************
Test Result for UIM Dielectric Parameter
Thu 30/May/2019
Freq   Frequency(GHz)
FCC_eB Limits for Body Epsilon
FCC_sB Limits for Body Sigma
Test_e Epsilon  of  UIM
Test_s Sigma of UIM
************************************************************
Freq          FCC_eB FCC_sB Test_e Test_s
1.8400        53.30  1.52   52.66  1.54
1.8500        53.30  1.52   52.68  1.54
1.8524        53.30  1.52   52.682 1.542*
1.8600        53.30  1.52   52.69  1.55
1.8700        53.30  1.52   52.71  1.56
1.8800        53.30  1.52   52.73  1.57
1.8825        53.30  1.52   52.735 1.57*
1.8900        53.30  1.52   52.75  1.57
1.9000        53.30  1.52   52.77  1.57
1.9050        53.30  1.52   52.775 1.575*
1.9076        53.30  1.52   52.778 1.578*
1.9100        53.30  1.52   52.78  1.58
1.9200        53.30  1.52   52.80  1.58

* value interpolated


************************************************************
Test Result for UIM Dielectric Parameter
Mon 03/Jun/2019
Freq   Frequency(GHz)
FCC_eB Limits for Body Epsilon
FCC_sB Limits for Body Sigma
Test_e Epsilon  of  UIM
Test_s Sigma of UIM
************************************************************
Freq          FCC_eB FCC_sB Test_e Test_s
2.2900        52.91  1.80   52.36  1.81
2.3000        52.90  1.81   52.34  1.82
2.3100        52.89  1.82   52.32  1.83
2.3200        52.87  1.83   52.30  1.84
2.3300        52.86  1.84   52.29  1.85
2.3400        52.85  1.84   52.27  1.86
2.3500        52.83  1.85   52.25  1.88
```


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```
************************************************************
Test Result for UIM Dielectric Parameter
Mon 03/Jun/2019
Freq   Frequency(GHz)
FCC_eB Limits for Body Epsilon
FCC_sB Limits for Body Sigma
Test_e Epsilon  of  UIM
Test_s Sigma of UIM
************************************************************
```

Freq	FCC_eB	FCC_sB	Test_e	Test_s
2.4900	52.65	2.01	51.91	2.04
2.5000	52.64	2.02	51.89	2.05
2.5060	52.628	2.032	51.872	2.056*
2.5100	52.62	2.04	51.86	2.06
2.5200	52.61	2.05	51.83	2.07
2.5300	52.60	2.06	51.81	2.08
2.5350	52.595	2.07	51.805	2.085*
2.5400	52.59	2.08	51.80	2.09
2.5495	52.571	2.09	51.781	2.109*
2.5500	52.57	2.09	51.78	2.11
2.5600	52.56	2.11	51.76	2.12
2.5700	52.55	2.12	51.74	2.14
2.5800	52.53	2.13	51.73	2.15
2.5900	52.52	2.15	51.70	2.16
2.5930	52.517	2.153	51.697	2.163*
2.6000	52.51	2.16	51.69	2.17
2.6100	52.50	2.18	51.66	2.19
2.6200	52.48	2.19	51.64	2.20
2.6300	52.47	2.21	51.63	2.22
2.6365	52.464	2.217	51.617	2.227*
2.6400	52.46	2.22	51.61	2.23
2.6500	52.45	2.23	51.60	2.24
2.6600	52.43	2.25	51.58	2.26
2.6700	52.42	2.26	51.56	2.27
2.6800	52.41	2.28	51.54	2.28
2.6900	52.39	2.29	51.51	2.29
2.7000	52.38	2.30	51.50	2.31
2.8000	52.37	2.31	51.48	2.32

* value interpolated

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```
************************************************************
Test Result for UIM Dielectric Parameter
Wed 08/May/2019
Freq   Frequency(GHz)
FCC_eB Limits for Body Epsilon
FCC_sB Limits for Body Sigma
Test_e Epsilon  of  UIM
Test_s Sigma of UIM
************************************************************
```

Freq	FCC_eB	FCC_sB	Test_e	Test_s
2.4100	52.75	1.91	52.71	1.92
2.4120	52.742	1.918	52.706	1.922*
2.4200	52.74	1.92	52.69	1.93
2.4300	52.73	1.93	52.68	1.94
2.4370	52.716	1.937	52.666	1.947*
2.4400	52.71	1.94	52.66	1.95
2.4500	52.70	1.95	52.64	1.96
2.4600	52.69	1.96	52.63	1.98
2.4620	52.687	1.963	52.626	1.982*
2.4700	52.67	1.98	52.61	1.99
2.4800	52.66	1.99	52.60	2.00

* value interpolated

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```
************************************************************
Test Result for UIM Dielectric Parameter
Fri 08/May/2019
Freq   Frequency(GHz)
FCC_eB Limits for Body Epsilon
FCC_sB Limits for Body Sigma
Test_e Epsilon  of  UIM
Test_s Sigma of UIM
************************************************************
```

Freq	FCC_eB	FCC_sB	Test_e	Test_s
5.1000	49.15	5.18	49.22	5.10
5.1200	49.12	5.21	49.19	5.12
5.1400	49.10	5.23	49.16	5.14
5.1600	49.07	5.25	49.13	5.16
5.1800	49.04	5.28	49.10	5.19
5.2000	49.01	5.30	49.07	5.21
5.2100	49.00	5.31	49.055	5.22*
5.2200	48.99	5.32	49.04	5.23
5.2400	48.96	5.35	49.01	5.25
5.2500	48.945	5.36	48.995	5.265*
5.2600	48.93	5.37	48.98	5.28
5.2800	48.91	5.39	48.95	5.31
5.2900	48.895	5.405	48.935	5.32*
5.3000	48.88	5.42	48.92	5.33
5.3200	48.85	5.44	48.89	5.36
5.3400	48.82	5.46	48.86	5.38
5.3600	48.80	5.49	48.83	5.40
5.3800	48.77	5.51	48.80	5.43
5.4000	48.74	5.53	48.77	5.46
5.4200	48.72	5.56	48.74	5.49
5.4400	48.69	5.58	48.71	5.51
5.4600	48.66	5.60	48.68	5.53
5.4800	48.63	5.63	48.65	5.55
5.5000	48.61	5.65	48.62	5.58
5.5200	48.58	5.67	48.59	5.61
5.5400	48.55	5.70	48.56	5.64
5.5600	48.53	5.72	48.53	5.67
5.5800	48.50	5.74	48.50	5.70
5.6000	48.47	5.77	48.47	5.73
5.6100	48.455	5.78	48.455	5.74*
5.6200	48.44	5.79	48.44	5.75
5.6400	48.42	5.81	48.41	5.78
5.6600	48.39	5.84	48.38	5.81
5.6800	48.36	5.86	48.35	5.84
5.7000	48.34	5.88	48.32	5.86
5.7200	48.31	5.91	48.29	5.89
5.7400	48.28	5.93	48.26	5.91
5.7450	48.273	5.935	48.253	5.918*
5.7500	48.265	5.94	48.245	5.925*
5.7600	48.25	5.95	48.23	5.94
5.7750	48.235	5.973	48.208	5.963*
5.7800	48.23	5.98	48.20	5.97
5.7850	48.223	5.985	48.193	5.975*
5.8000	48.20	6.00	48.17	5.99
5.8200	48.17	6.02	48.14	6.02
5.8250	48.165	6.028	48.133	6.025*
5.8400	48.15	6.05	48.11	6.04

* value interpolated

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RF Exposure Lab

Plot 1

DUT: Dipole 750 MHz D750V3; Type: D750V3; Serial: D750V3 - SN: 1016

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1
Medium: MSL750; Medium parameters used: f = 750 MHz; σ = 0.97 S/m; ε_r = 55.45; ρ = 1000 kg/m^3
Phantom section: Flat Section

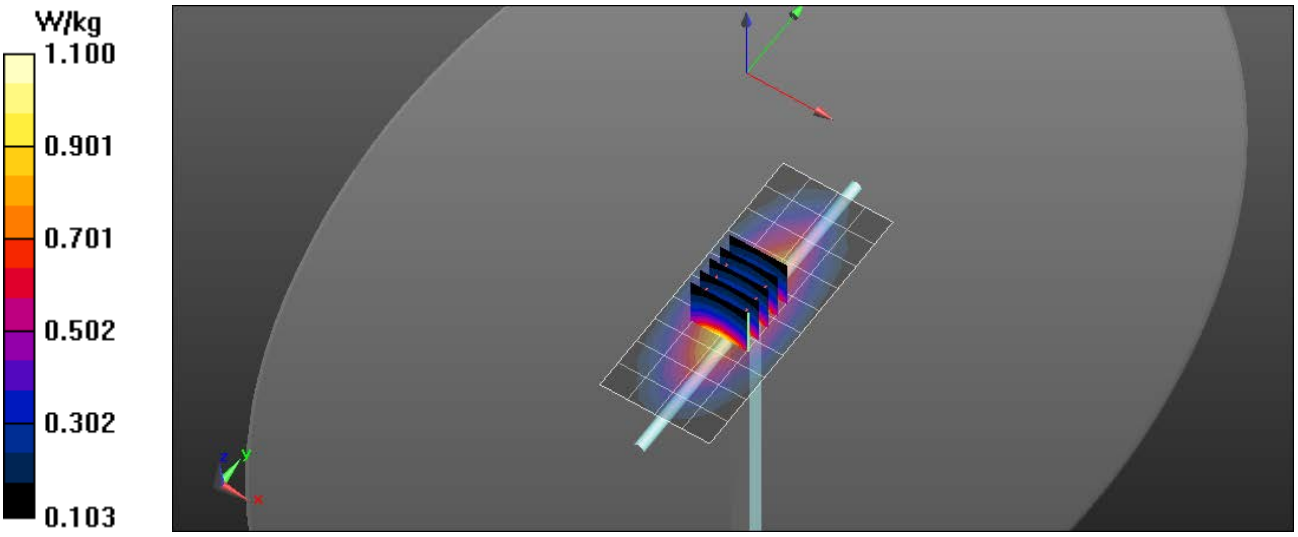
Test Date: Date: 5/29/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(9.55, 9.55, 9.55); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

750 MHz/Verification/Area Scan (5x11x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.06 W/kg

750 MHz/Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 32.487 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.36 W/kg
P_{IN}=100 mW
SAR(1 g) = 0.869 W/kg; SAR(10 g) = 0.571 W/kg
Maximum value of SAR (measured) = 1.11 W/kg



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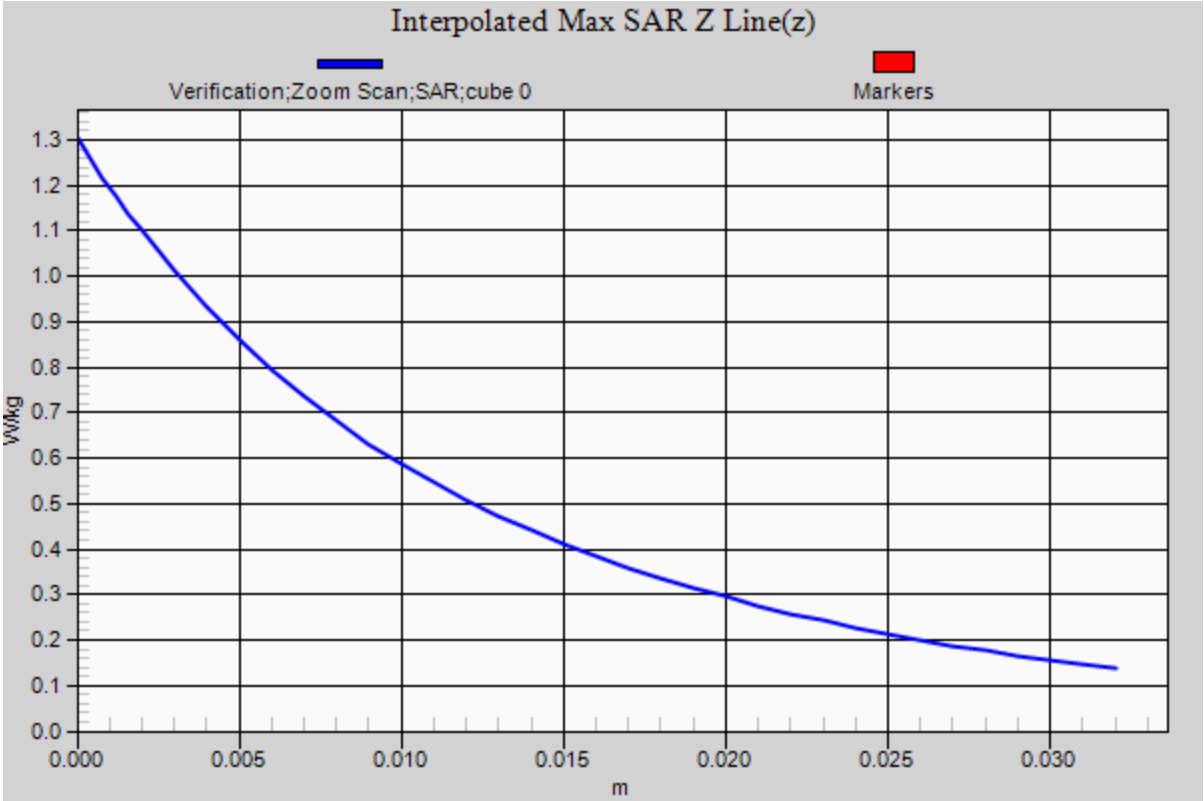

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RF Exposure Lab

Plot 2

DUT: Dipole 835 MHz D835V2; Type: D835V2; Serial: D835V2 - SN: 4d089

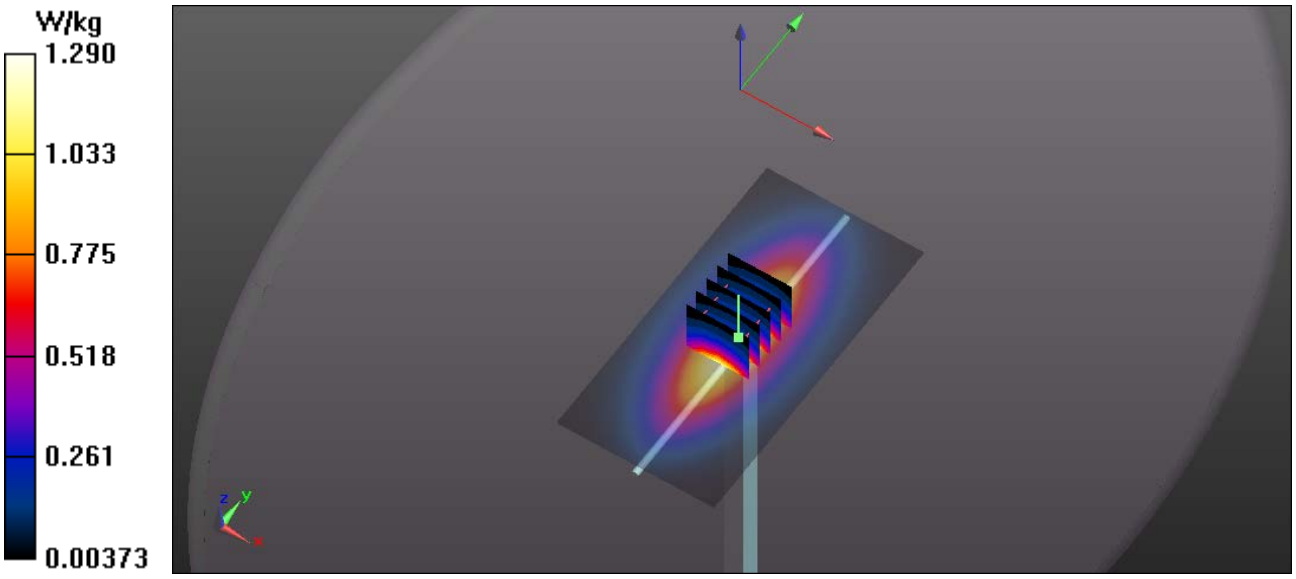
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Medium: MSL835; Medium parameters used: f = 835 MHz; σ = 0.98 S/m; ε_r = 54.44; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/28/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C
Probe: EX3DV4 - SN3662; ConvF(9.34, 9.34, 9.34); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

835 MHz Body/Verification/Area Scan (81x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 1.27 W/kg

835 MHz Body/Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 51.539 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.52 W/kg
P_{IN}=100 mW
SAR(1 g) = 0.959 W/kg; SAR(10 g) = 0.634 W/kg
Maximum value of SAR (measured) = 1.31 W/kg



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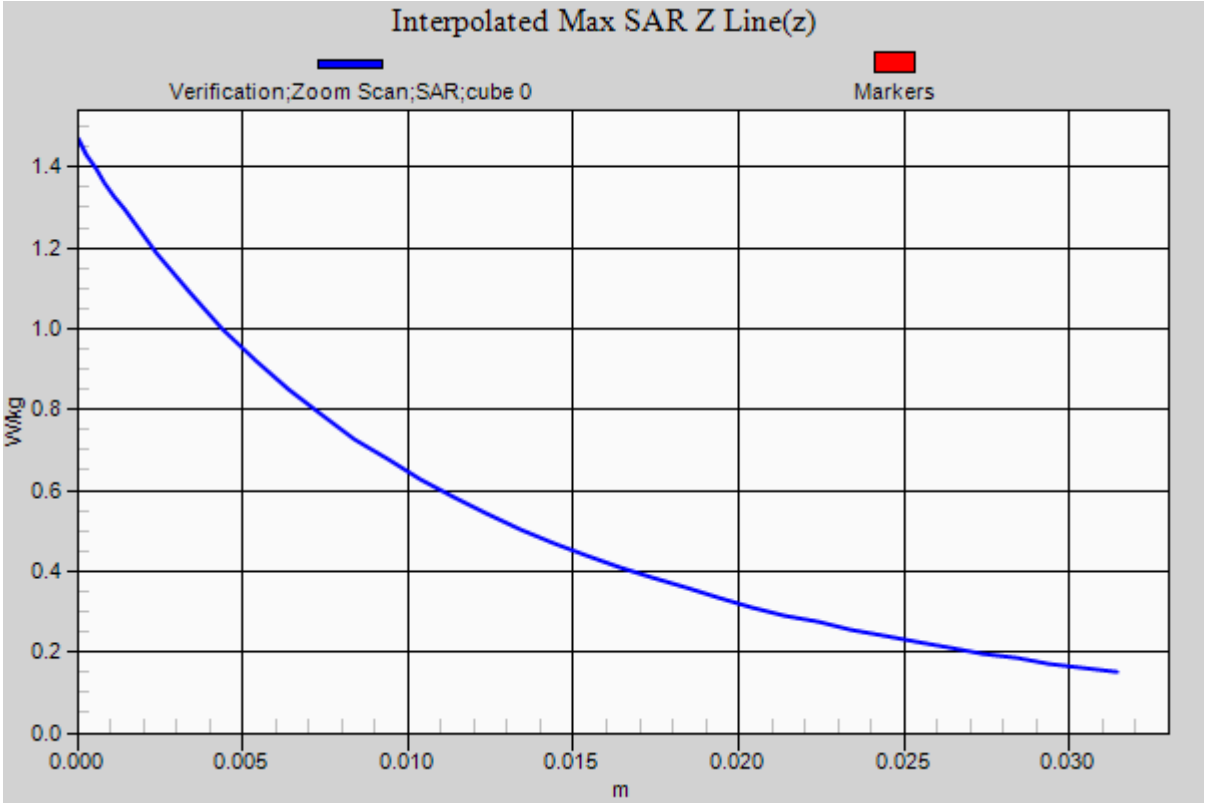

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RF Exposure Lab

Plot 3

DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN: 1018

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: MSL1750; Medium parameters used: f = 1750 MHz; σ = 1.51 S/m; ε_r = 53.21; ρ = 1000 kg/m^3
Phantom section: Flat Section

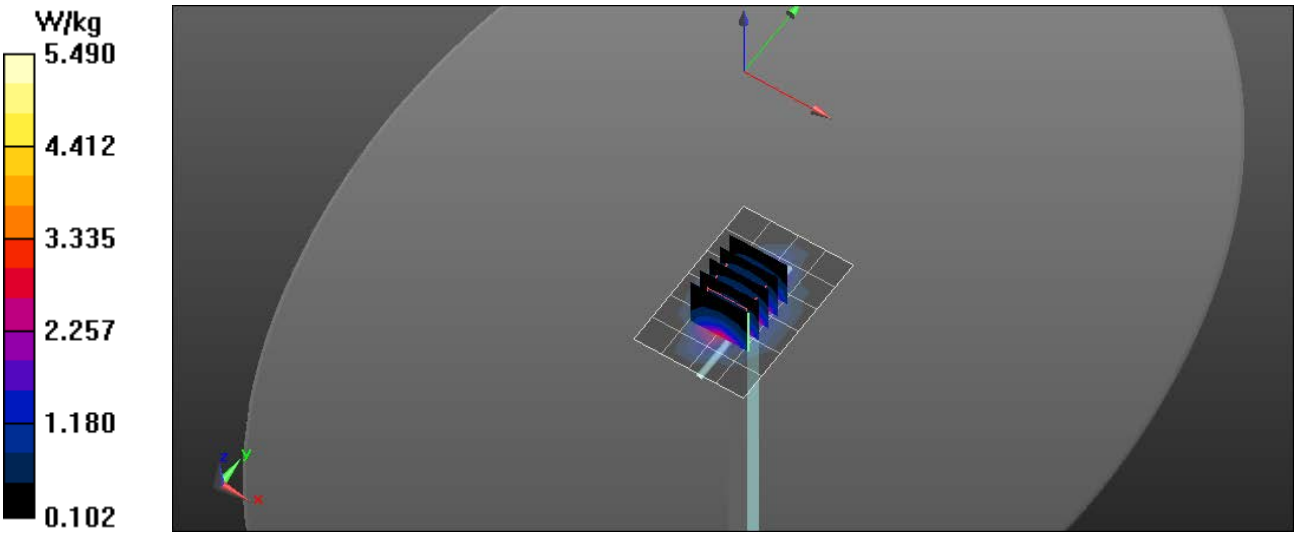
Test Date: Date: 5/31/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(7.95, 7.95, 7.95); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

1750 MHz/Verification/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 5.29 W/kg

1750 MHz/Verification/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 30.296 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 6.81 W/kg
P_{IN}=100 mW
SAR(1 g) = 3.71 W/kg; SAR(10 g) = 2.01 W/kg
Maximum value of SAR (measured) = 5.46 W/kg



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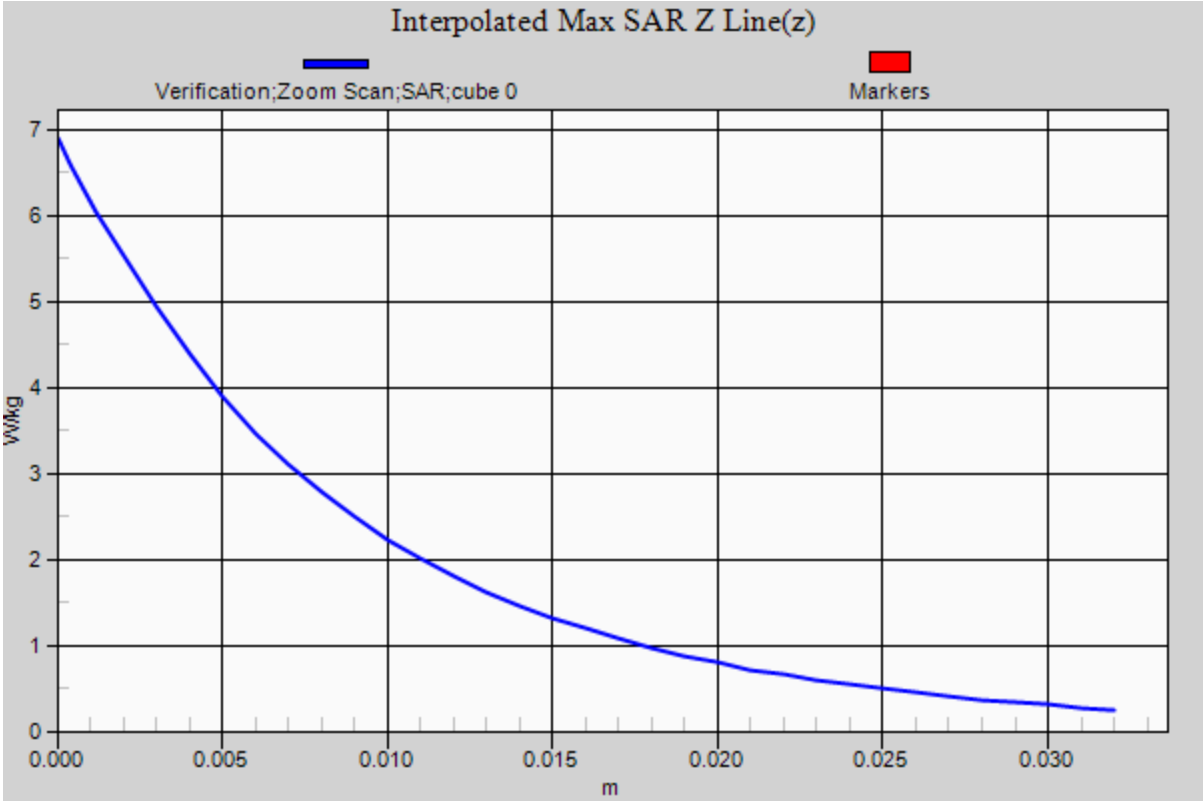

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RF Exposure Lab

Plot 4

DUT: Dipole 1900 MHz D1900V2; Type: D1900V2; Serial: D1900V2 - SN: 5d116

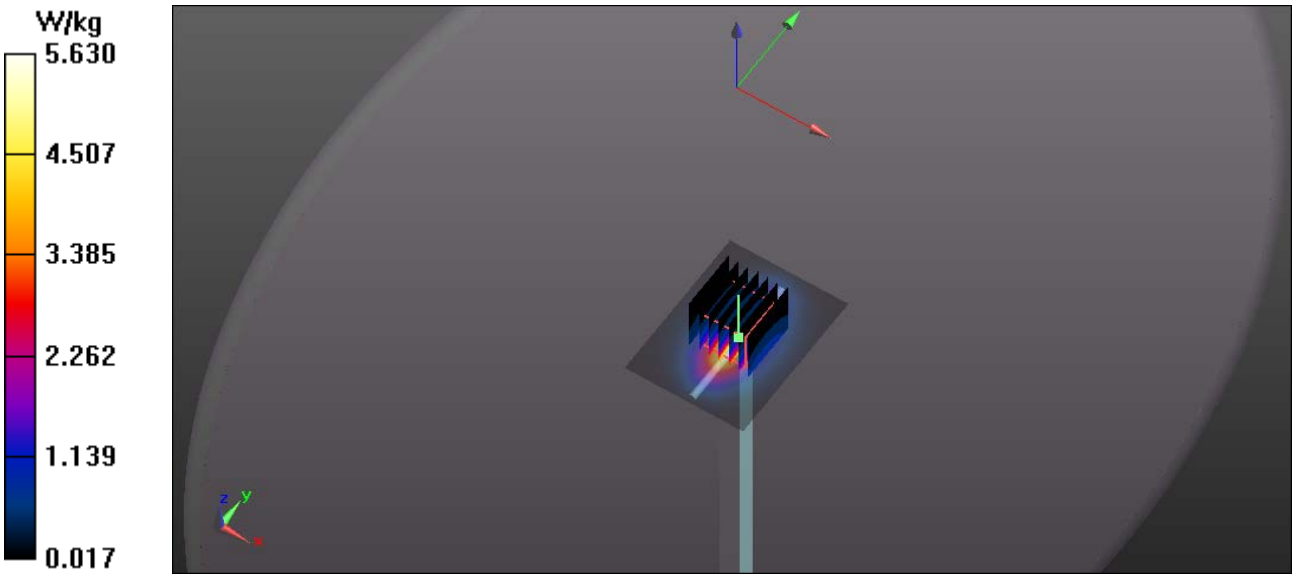
Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: MSL1900; Medium parameters used: f = 1900 MHz; σ = 1.57 S/m; ε_r = 52.77; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/30/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C
Probe: EX3DV4 - SN3662; ConvF(7.69, 7.69, 7.69); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

1900 MHz Body/Verification/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 5.61 W/kg

1900 MHz Body/Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 53.721 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 6.73 W/kg
P_{IN}=100 mW
SAR(1 g) = 4.02 W/kg; SAR(10 g) = 1.94 W/kg
Maximum value of SAR (measured) = 5.64 W/kg



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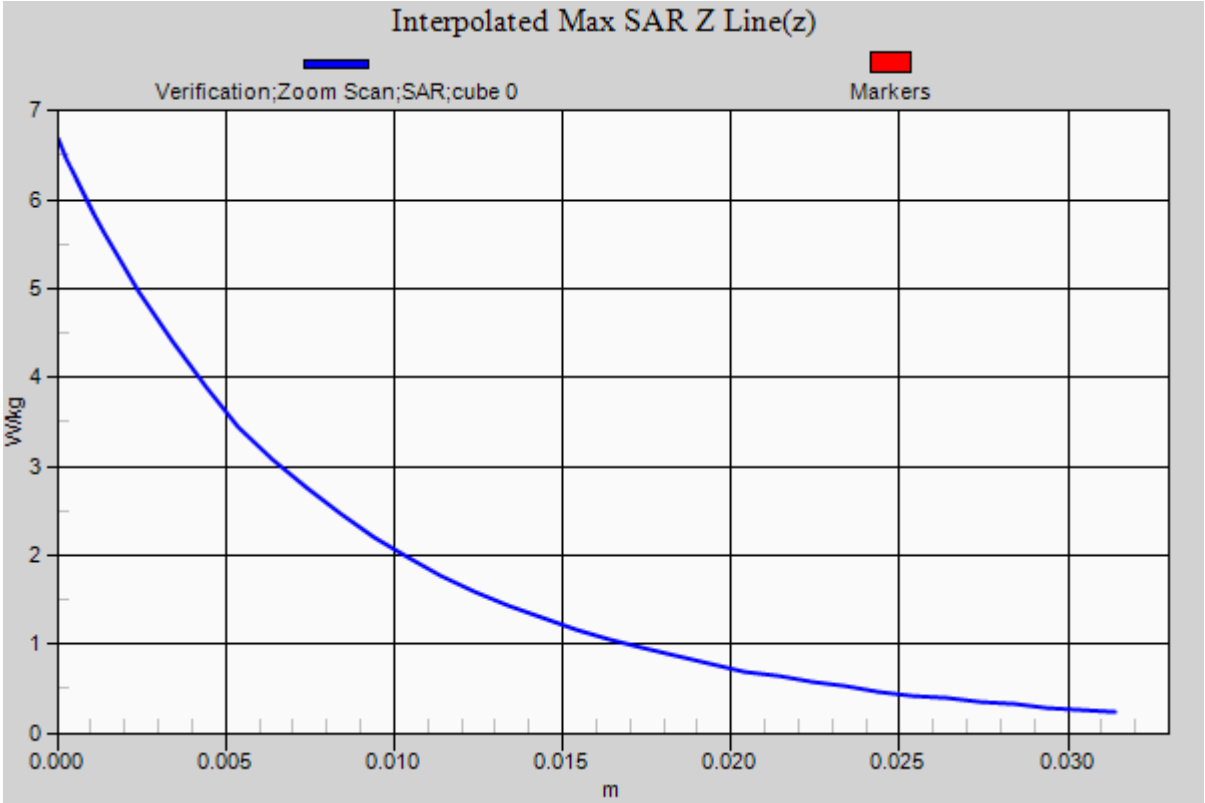

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RF Exposure Lab

Plot 5

DUT: Dipole 2300 MHz D2300V2; Type: D2300V2; Serial: D2300V2 - SN: 1060

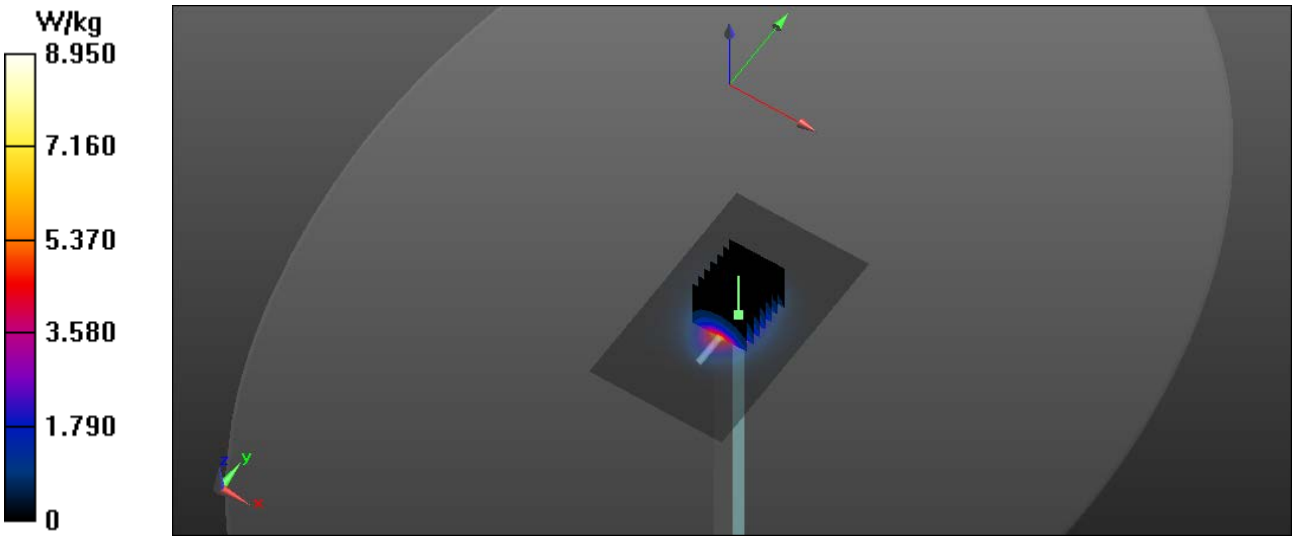
Communication System: CW; Frequency: 2300 MHz; Duty Cycle: 1:1
Medium: MSL2300; Medium parameters used: f = 2300 MHz; σ = 1.82 S/m; ε_r = 52.34; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 6/3/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C
Probe: EX3DV4 - SN3662; ConvF(7.43, 7.43, 7.43); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

Body Verification/2300 MHz/Area Scan (61x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 8.87 W/kg

Body Verification/2300 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 51.954 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 11.06 W/kg
P_{in}= 100 mW
SAR(1 g) = 4.79 W/kg; SAR(10 g) = 2.21 W/kg
Maximum value of SAR (measured) = 8.95 W/kg



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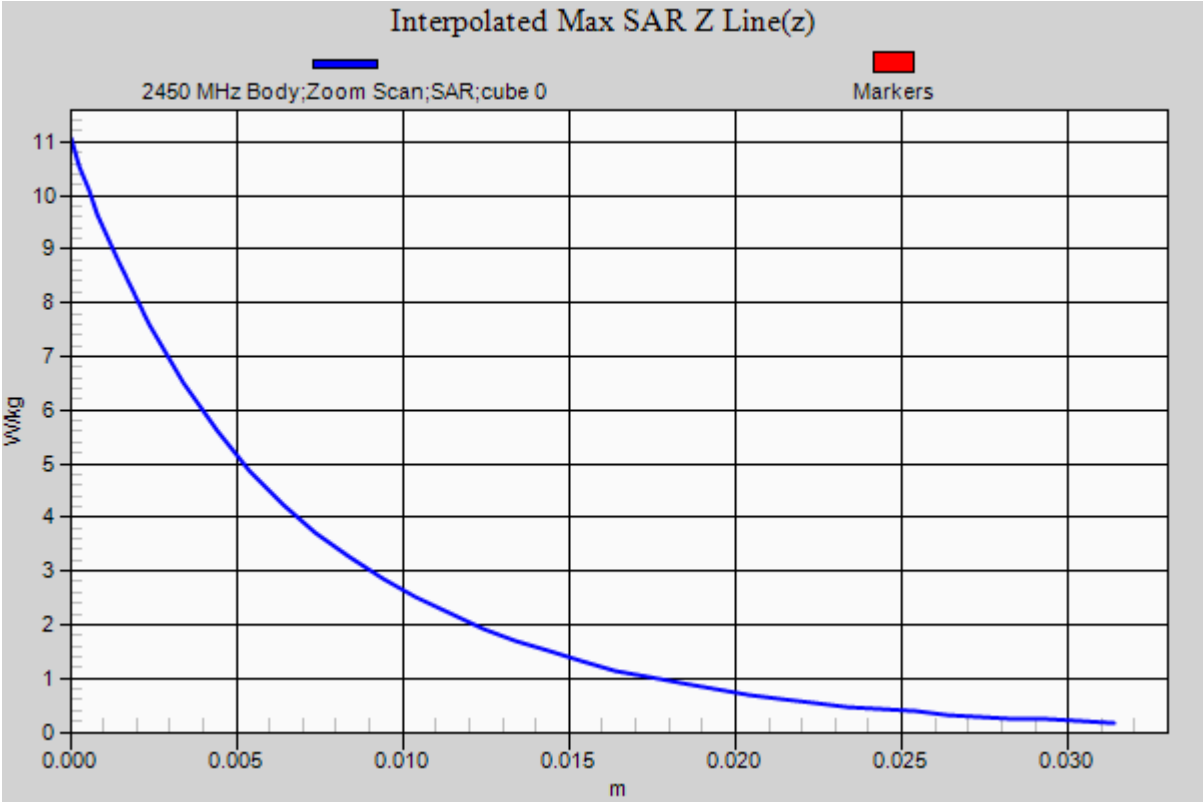

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Plot 6

DUT: Dipole 2550 MHz D2550V2; Type: D2550V2; Serial: D2550V2 - SN: 1003

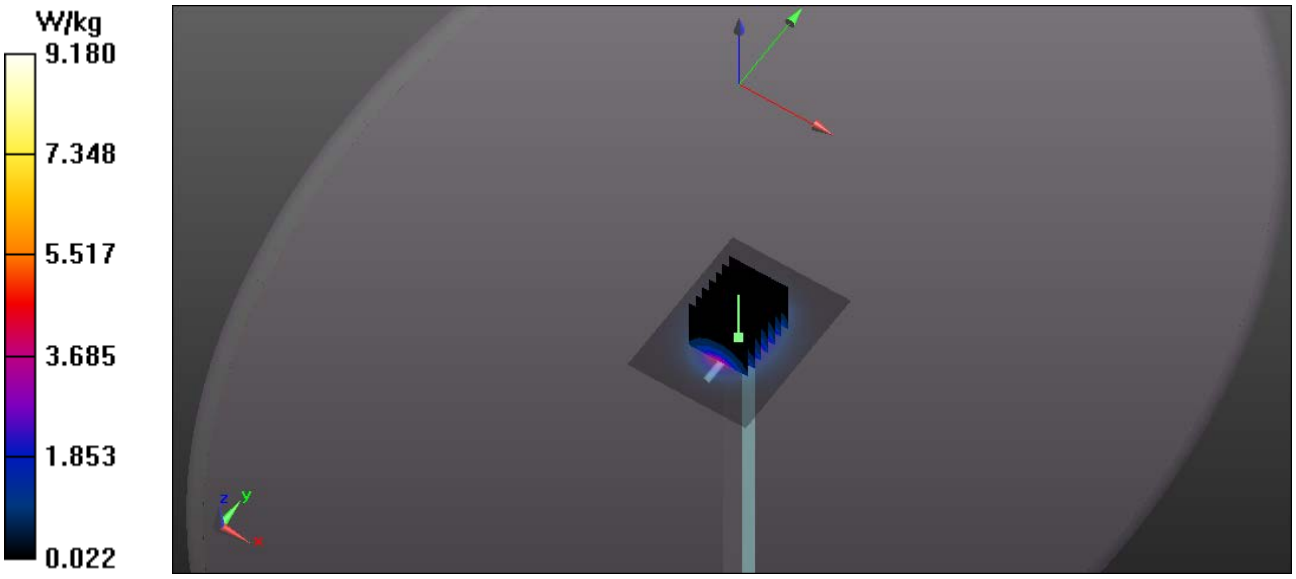
Communication System: CW; Frequency: 2550 MHz; Duty Cycle: 1:1
Medium: MSL2600; Medium parameters used: f = 2550 MHz; σ = 2.11 S/m; ε_r = 51.78; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 6/3/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C
Probe: EX3DV4 - SN3662; ConvF(7.12, 7.12, 7.12); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

2550 MHz Body/Verification/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 9.12 W/kg

2550 MHz Body/Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 52.627 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 11.4 W/kg
P_{IN}=100 mW
SAR(1 g) = 5.37 W/kg; SAR(10 g) = 2.4 W/kg
Maximum value of SAR (measured) = 9.16 W/kg



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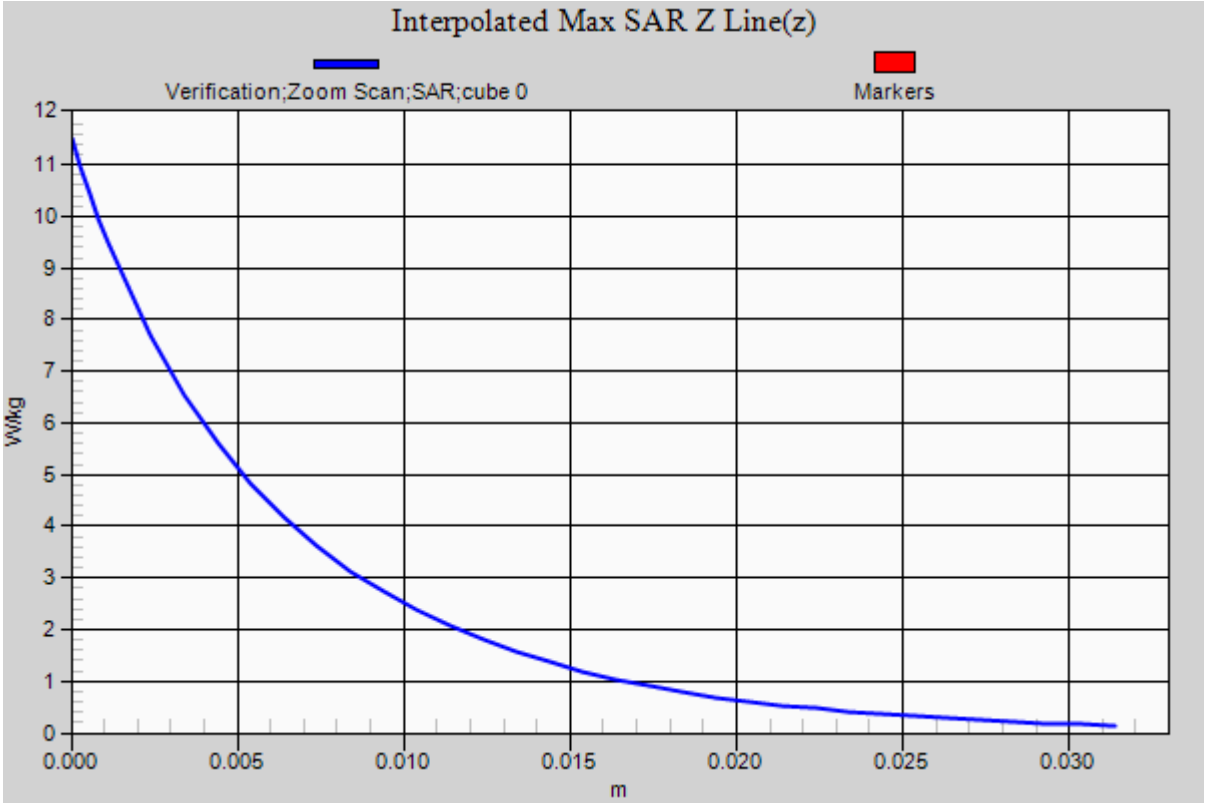

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Plot 7

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN: 829

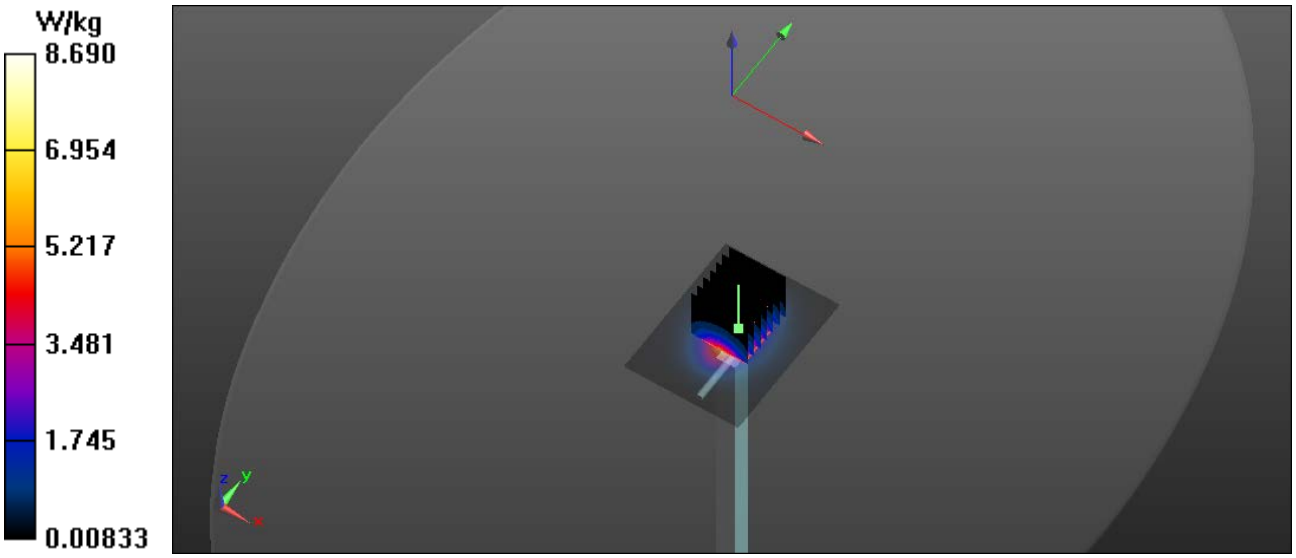
Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: MSL2450; Medium parameters used: f = 2450 MHz; σ = 1.96 S/m; ε_r = 52.64; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/8/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C
Probe: EX3DV4 - SN3693; ConvF(7.29, 7.29, 7.29); Calibrated: 8/27/2018;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn759; Calibrated: 8/20/2018
Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1065
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

Body Verification/2450 MHz/Area Scan (61x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 8.68 W/kg

Body Verification/2450 MHz/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 55.751 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 10.7 W/kg
P_{in}=100 mW
SAR(1 g) = 5.22 W/kg; SAR(10 g) = 2.41 W/kg
Maximum value of SAR (measured) = 5.91 W/kg



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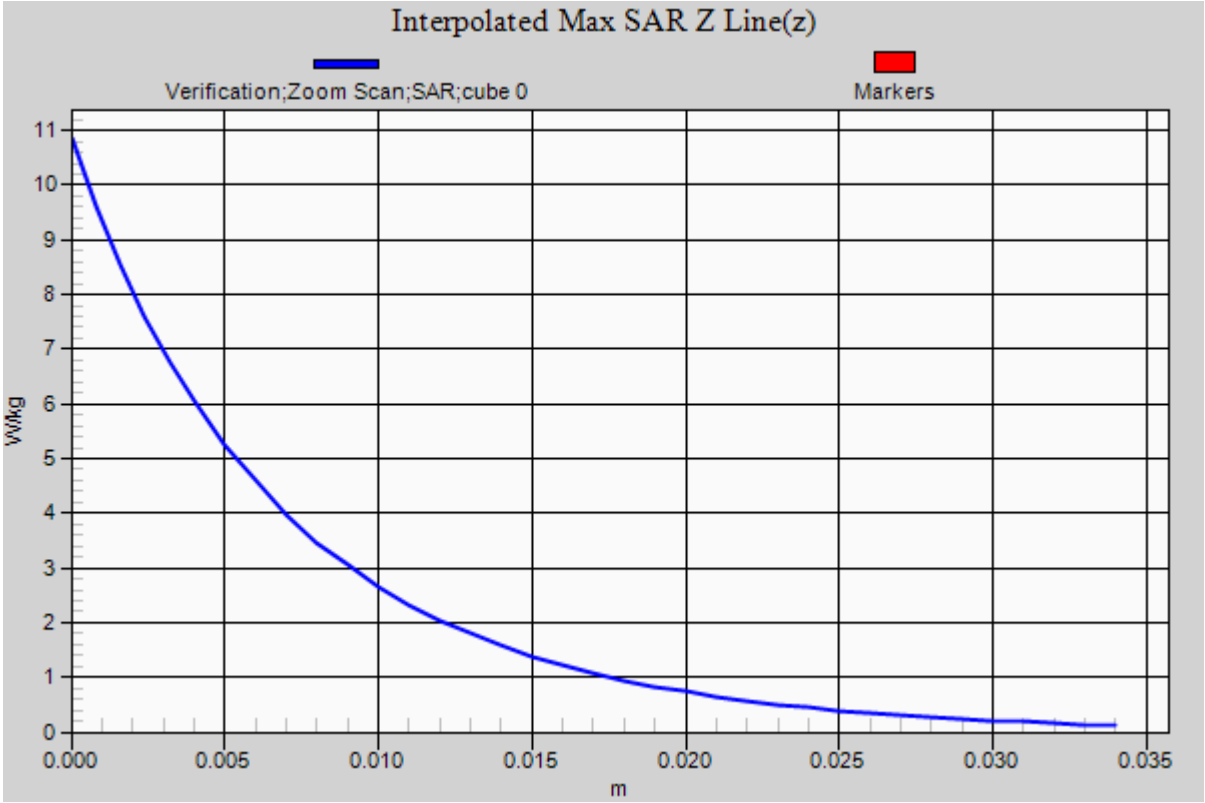

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RF Exposure Lab

Plot 8

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1085

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: MSL 3-6 GHz; Medium parameters used (interpolated): f = 5250 MHz; σ = 5.265 S/m; ε_r = 48.995; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/3/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C
Probe: EX3DV4 - SN3693; ConvF(4.96, 4.96, 4.96); Calibrated: 8/27/2018;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn759; Calibrated: 1/10/2018
Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1065
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

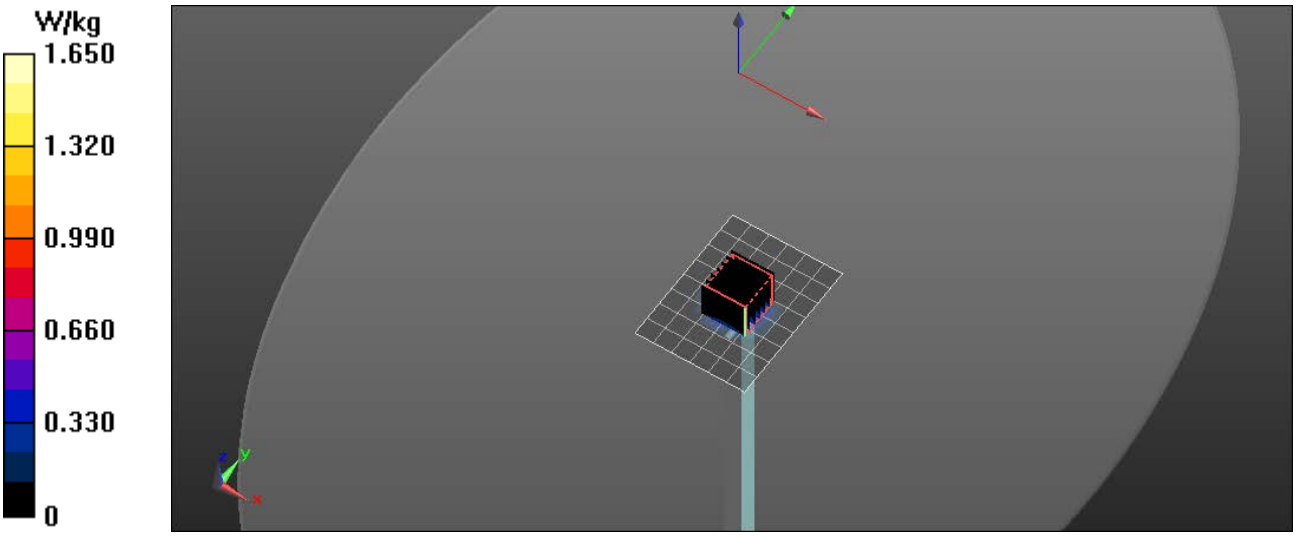
Procedure Notes:

Body Verification/5250 MHz/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.58 W/kg

Body Verification/5250 MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.705 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.75 W/kg
P_{IN}=10 mW
SAR(1 g) = 0.783 W/kg; SAR(10 g) = 0.231 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.65 W/kg



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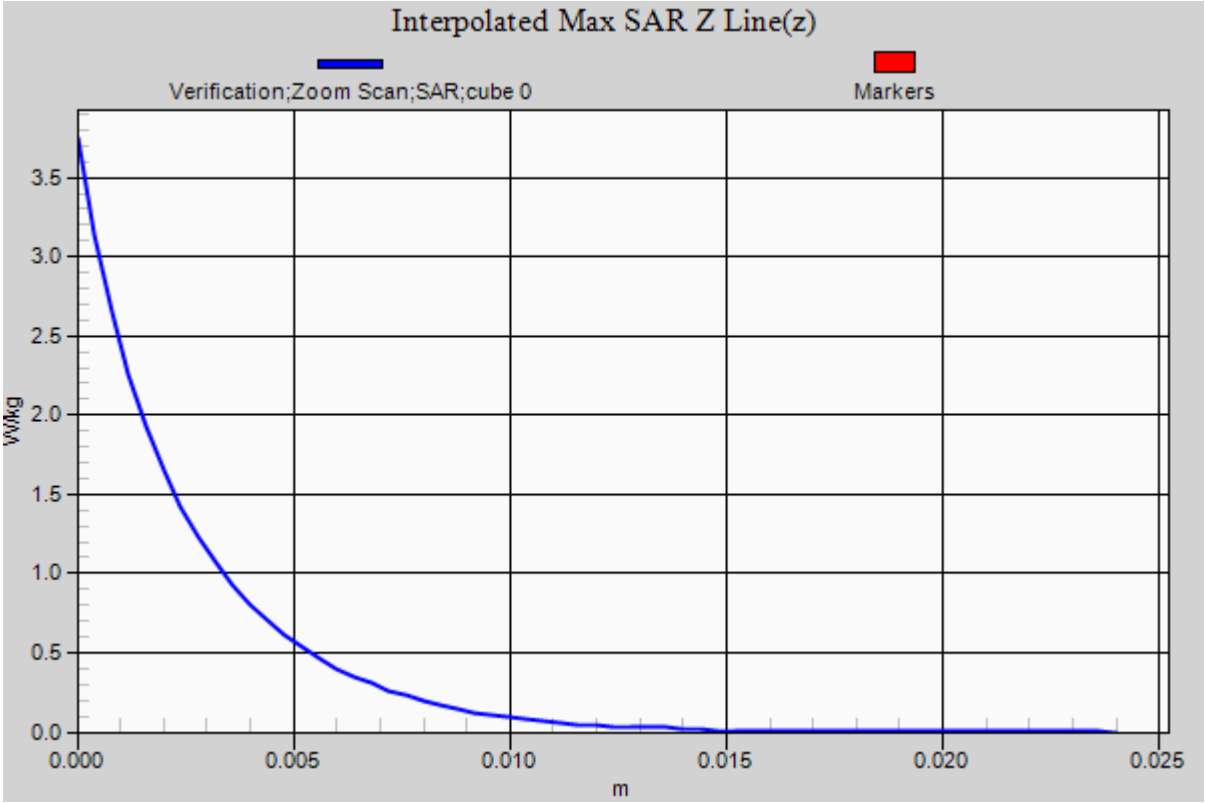

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Plot 9

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1085

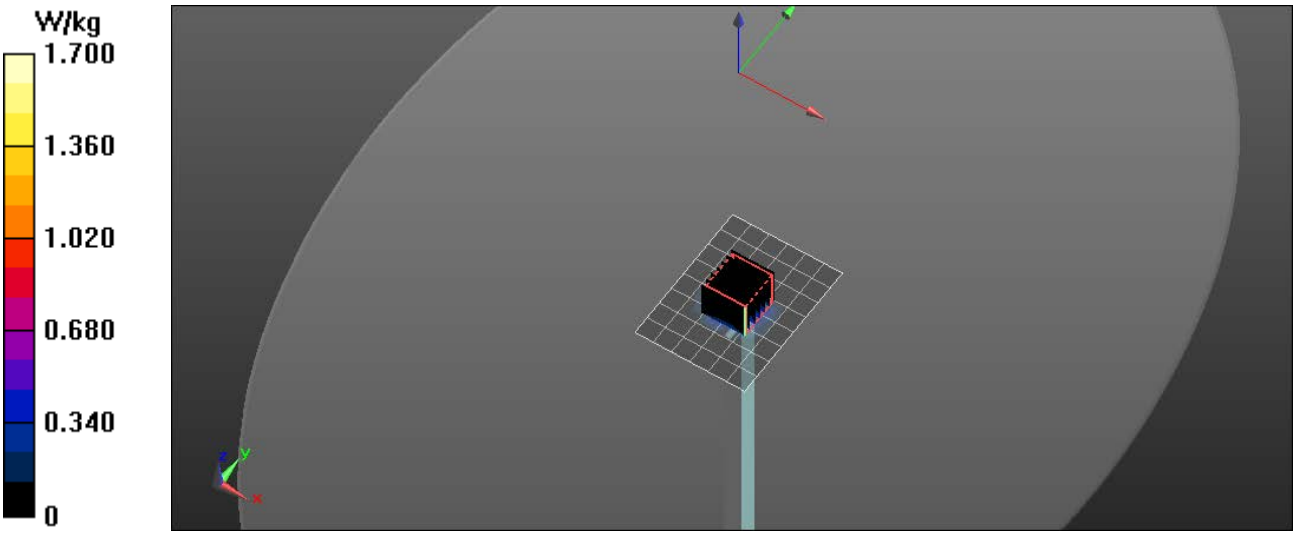
Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: MSL 3-6 GHz; Medium parameters used: f = 5600 MHz; σ = 5.73 S/m; ε_r = 48.47; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/3/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C
Probe: EX3DV4 - SN3693; ConvF(4.77, 4.77, 4.77); Calibrated: 8/27/2018;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn759; Calibrated: 1/10/2018
Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1065
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

Body Verification/5600 MHz/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (measured) = 1.64 W/kg

Body Verification/5600 MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.892 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 3.63 W/kg
P_{IN}=10 mW
SAR(1 g) = 0.806 W/kg; SAR(10 g) = 0.236 W/kg
Maximum value of SAR (measured) = 1.70 W/kg



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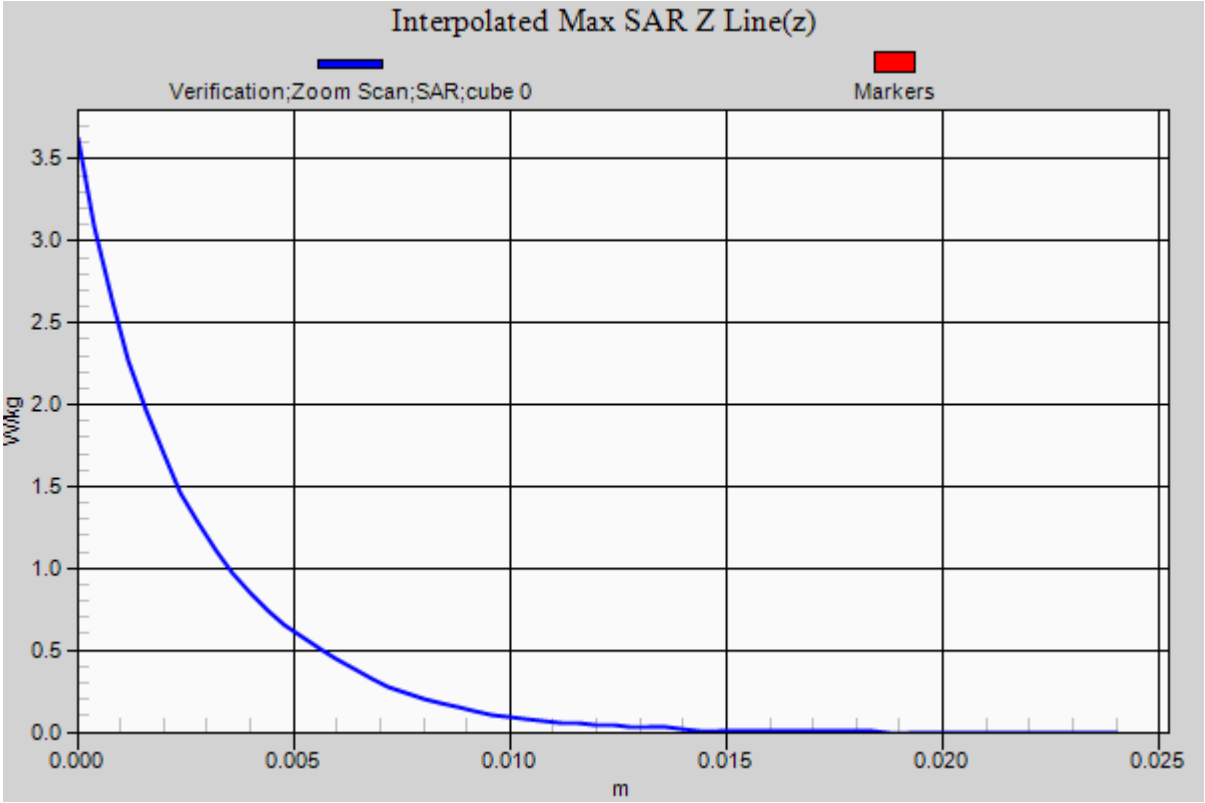

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RF Exposure Lab

Plot 10

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1085

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1
Medium: MSL 3-6 GHz; Medium parameters used (interpolated): f = 5750 MHz; σ = 5.925 S/m; ε_r = 48.245; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/3/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C
Probe: EX3DV4 - SN3693; ConvF(4.67, 4.67, 4.67); Calibrated: 8/27/2018;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn759; Calibrated: 1/10/2018
Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1065
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

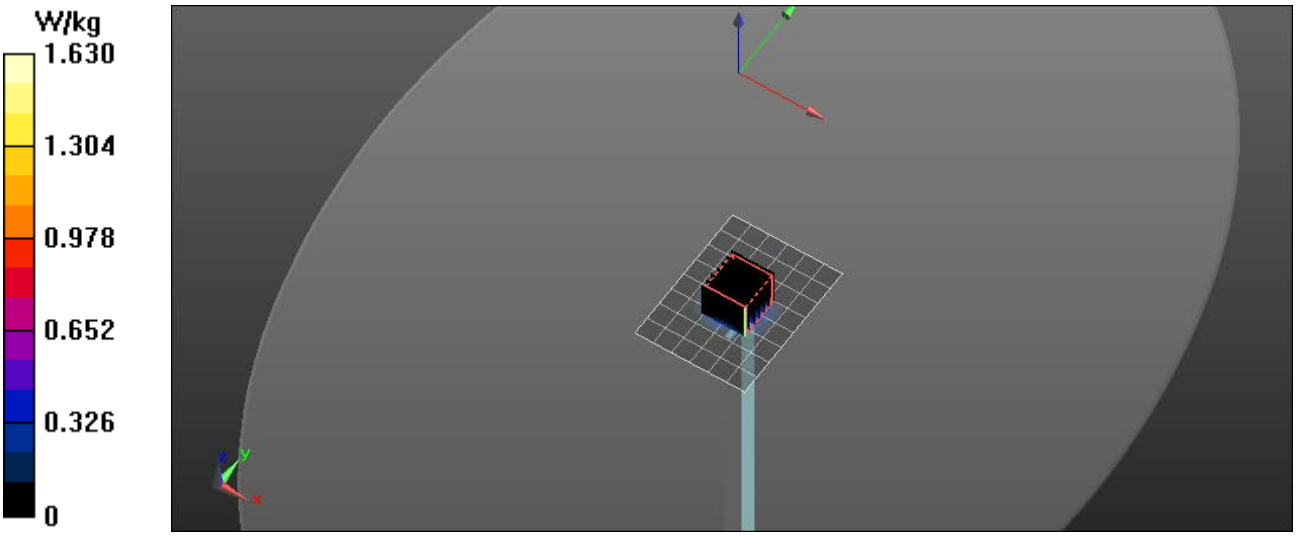
Procedure Notes:

Body Verification/5750 MHz/Area Scan (61x81x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.56 W/kg

Body Verification/5750 MHz/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 11.621 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.47 W/kg
P_{IN}=10 mW
SAR(1 g) = 0.779 W/kg; SAR(10 g) = 0.228 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.63 W/kg



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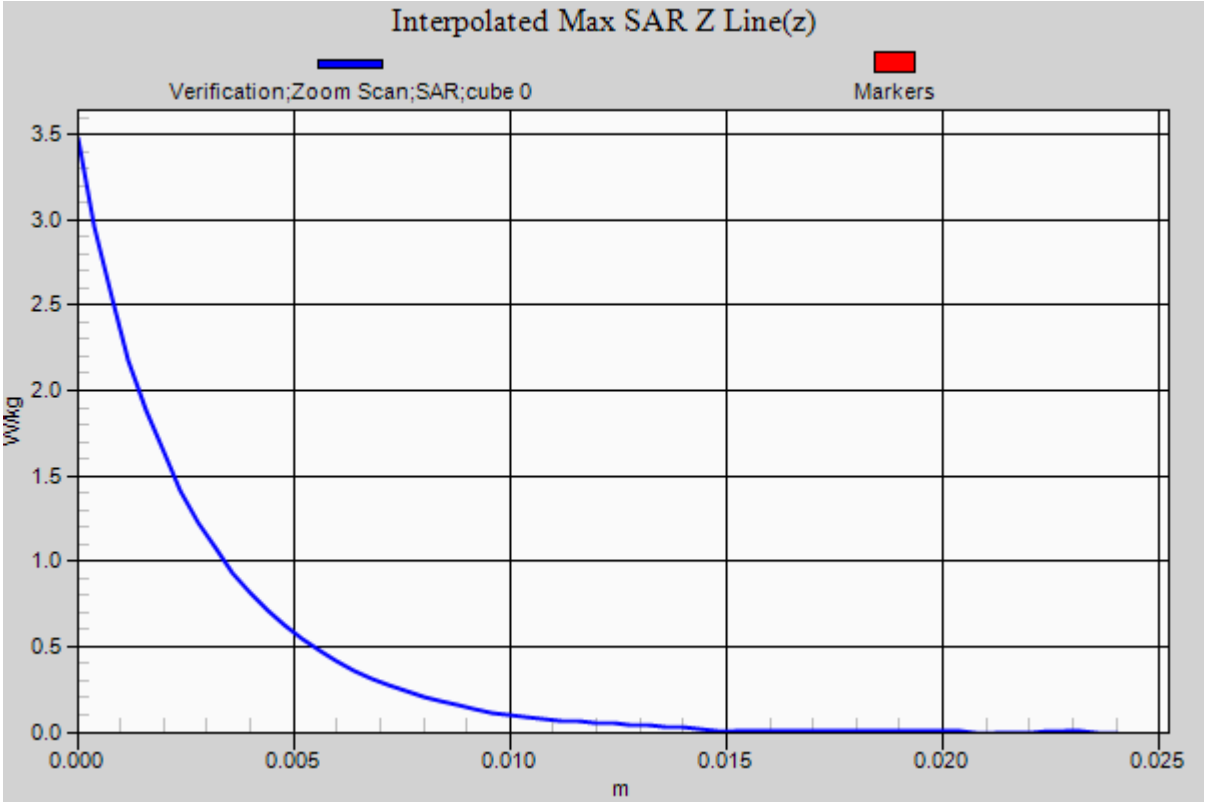

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Appendix B – SAR Test Data Plots

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RF Exposure Lab

Plot 1

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 707.5 MHz; Duty Cycle: 1:1
Medium: MSL750; Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.958 S/m; ε_r = 55.578; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/29/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(9.57, 9.57, 9.57); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

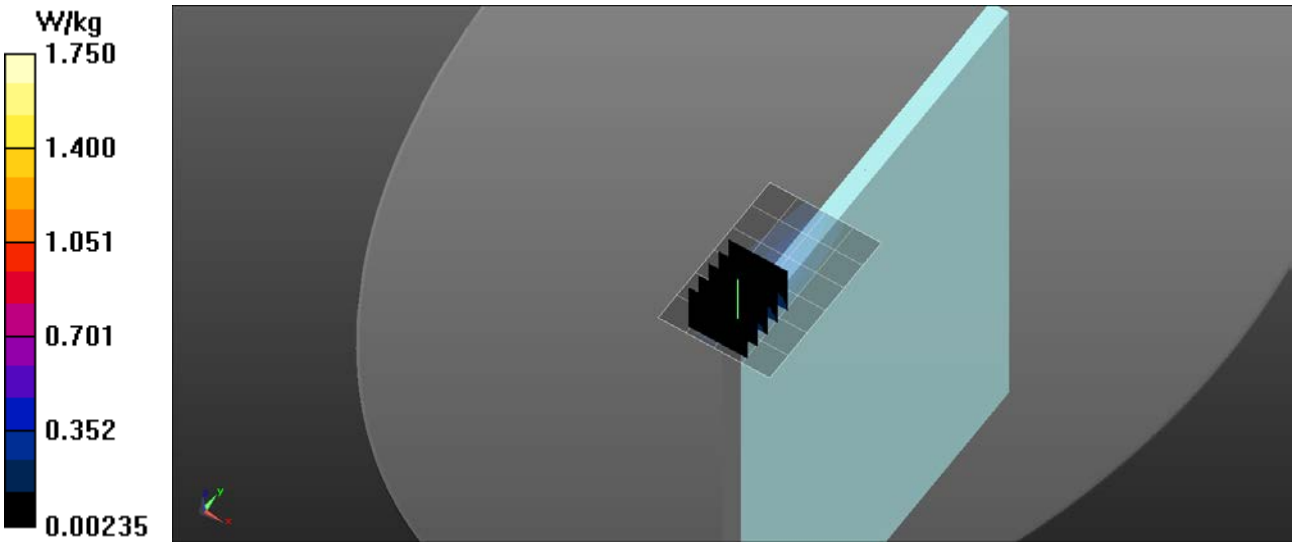
Procedure Notes:

750 MHz B12 LTE/Right Mid 1 RB 24 Offset/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.04 W/kg

750 MHz B12 LTE/Right Mid 1 RB 24 Offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.37 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 3.31 W/kg
SAR(1 g) = 0.705 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.75 W/kg



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RF Exposure Lab

Plot 2

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 782 MHz; Duty Cycle: 1:1
Medium: MSL750; Medium parameters used (interpolated): f = 782 MHz; σ = 0.982 S/m; ε_r = 55.316; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/29/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(9.57, 9.57, 9.57); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

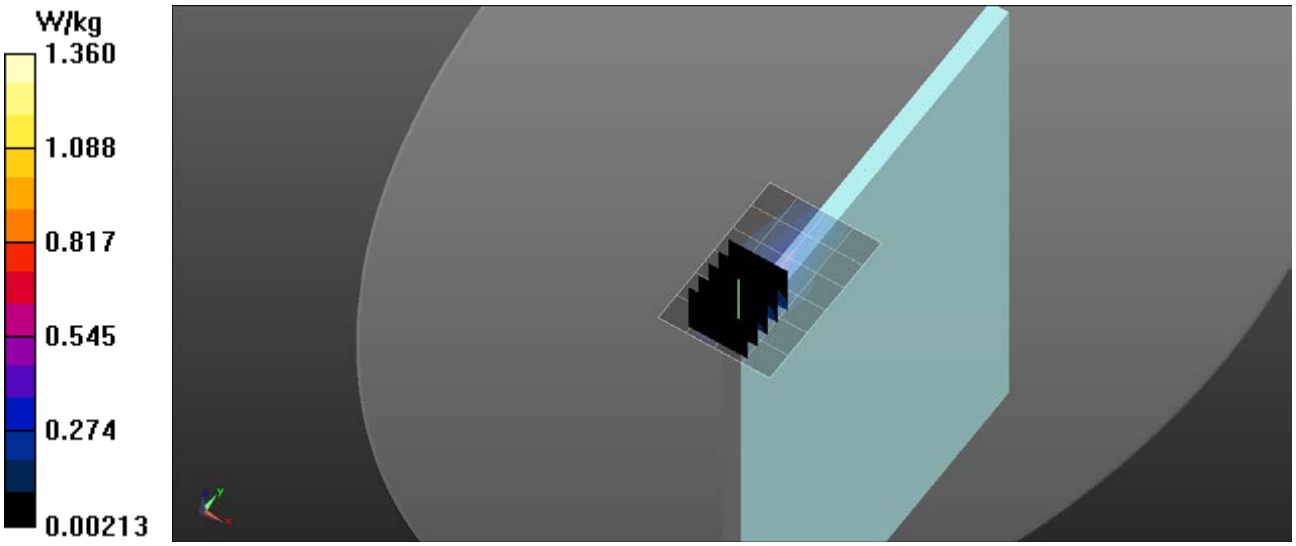
Procedure Notes:

750 MHz B13 LTE/Right Mid 1 RB 24 Offset/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.944 W/kg

750 MHz B13 LTE/Right Mid 1 RB 24 Offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.053 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 2.53 W/kg
SAR(1 g) = 0.606 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.36 W/kg



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Plot 3

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 793 MHz; Duty Cycle: 1:1
Medium: MSL750; Medium parameters used (interpolated): f = 793 MHz; σ = 0.99 S/m; ε_r = 55.288; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/29/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(9.57, 9.57, 9.57); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

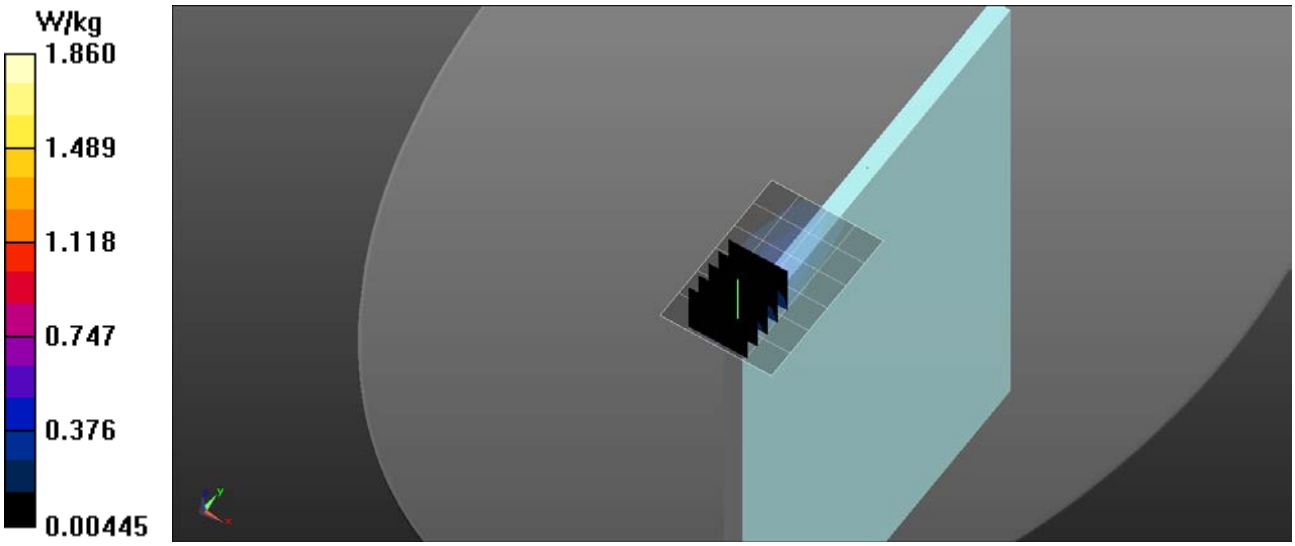
Procedure Notes:

750 MHz B14 LTE/Right Mid 1 RB 24 Offset/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.85 W/kg

750 MHz B14 LTE/Right Mid 1 RB 24 Offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 11.42 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 3.32 W/kg
SAR(1 g) = 0.817 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.86 W/kg



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Plot 4

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: UMTS (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1
Medium: MSL835; Medium parameters used (interpolated): f = 836.6 MHz; σ = 0.982 S/m; ε_r = 54.432; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/28/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(9.34, 9.34, 9.34); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

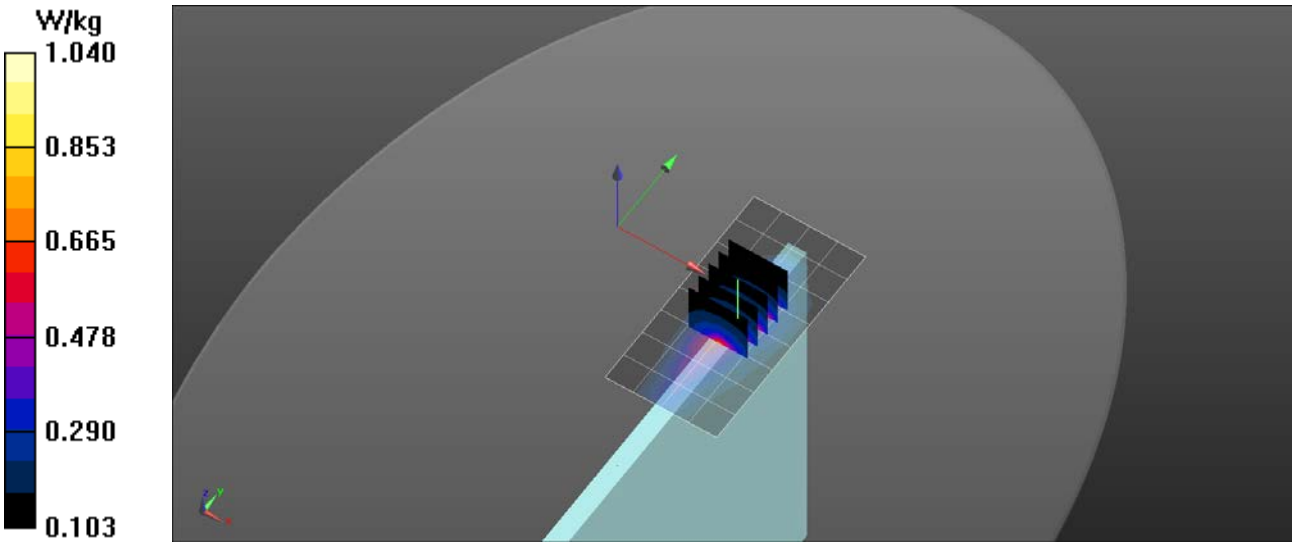
Procedure Notes:

835 MHz WCDMA/Top Mid/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.998 W/kg

835 MHz WCDMA/Top Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.39 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 1.16 W/kg
SAR(1 g) = 0.923 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.04 W/kg



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RF Exposure Lab

Plot 5

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 831.5 MHz; Duty Cycle: 1:1
Medium: MSL835; Medium parameters used (interpolated): f = 831.5 MHz; σ = 0.977 S/m; ε_r = 54.454; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/28/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(9.34, 9.34, 9.34); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

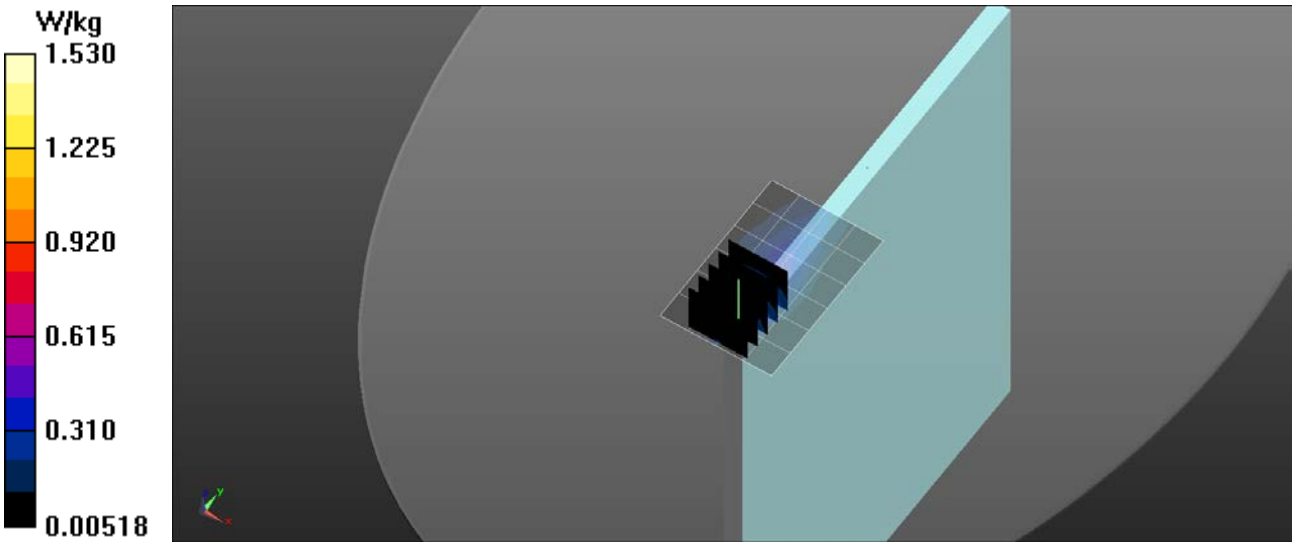
Procedure Notes:

835 MHz B26 LTE/Right Mid 1 RB 24 Offset/Area Scan (5x7x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.55 W/kg

835 MHz B26 LTE/Right Mid 1 RB 24 Offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.56 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.84 W/kg
SAR(1 g) = 0.750 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.53 W/kg



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Plot 6

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: UMTS (WCDMA); Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium: MSL835; Medium parameters used (interpolated): f = 1732.6 MHz; σ = 1.493 S/m; ε_r = 53.265; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/31/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(7.95, 7.95, 7.95); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

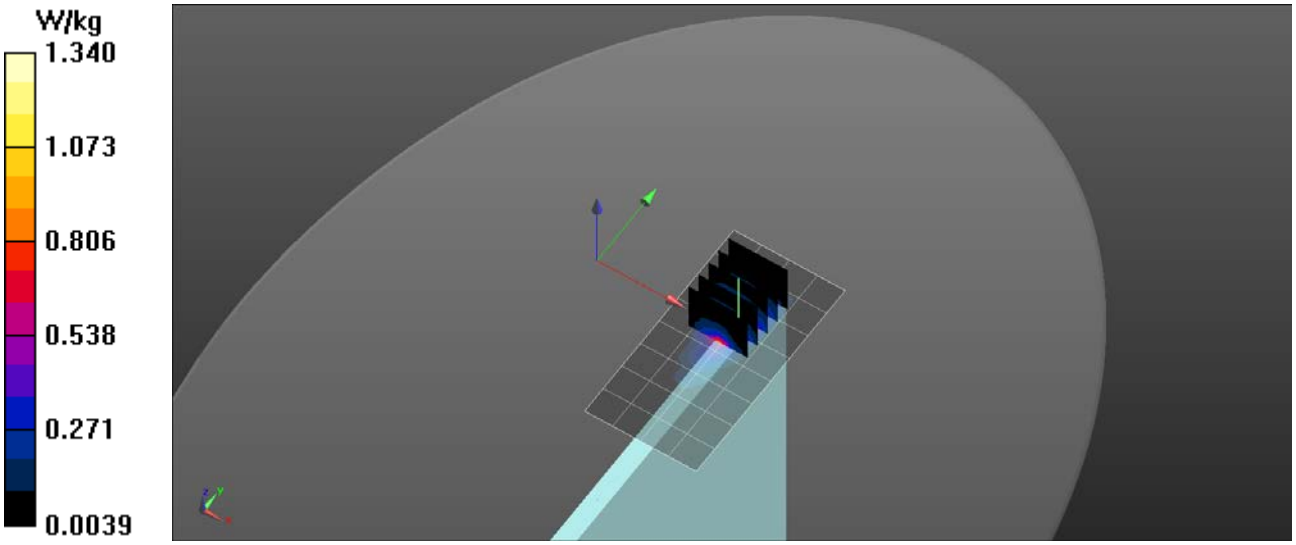
Procedure Notes:

1750 MHz WCDMA/Top Mid/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.22 W/kg

1750 MHz WCDMA/Top Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.369 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.74 W/kg
SAR(1 g) = 0.711 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.34 W/kg



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Plot 7

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium: MSL1750; Medium parameters used (interpolated): f = 1745 MHz; σ = 1.505 S/m; ε_r = 53.23; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 6/1/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(7.95, 7.95, 7.95); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

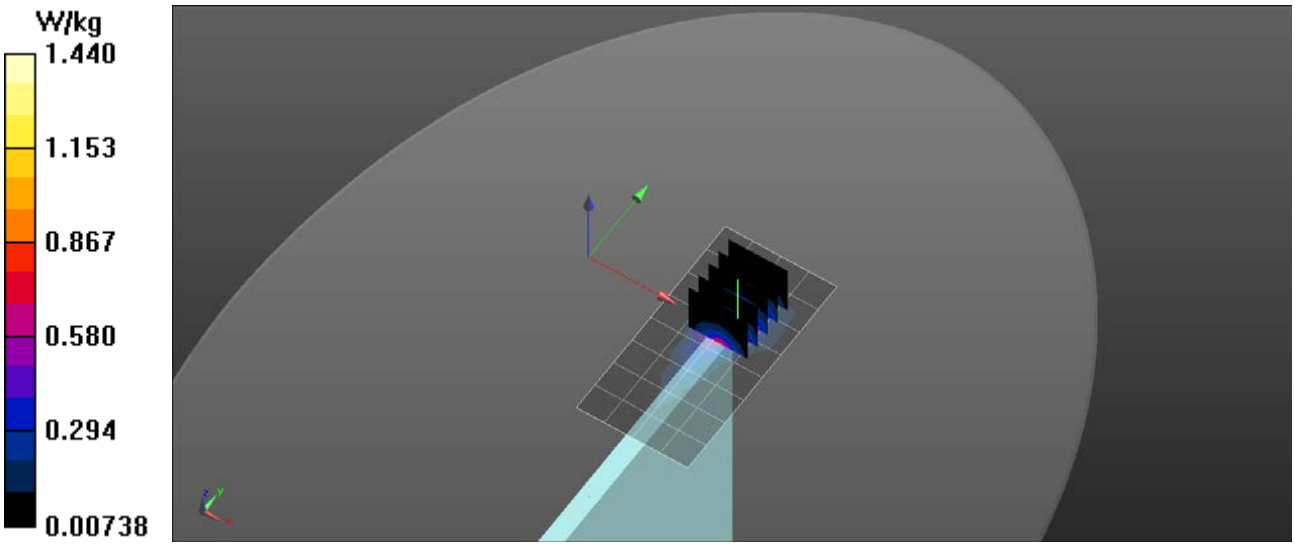
Procedure Notes:

1750 MHz B66 LTE/Top Mid 1 RB 49 Offset/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.05 W/kg

1750 MHz B66 LTE/Top Mid 1 RB 49 Offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.240 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.88 W/kg
SAR(1 g) = 0.858 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.44 W/kg



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Plot 8

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: UMTS (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: MSL1900; Medium parameters used: f = 1880 MHz; σ = 1.57 S/m; ε_r = 52.73; ρ = 1000 kg/m^3
Phantom section: Flat Section

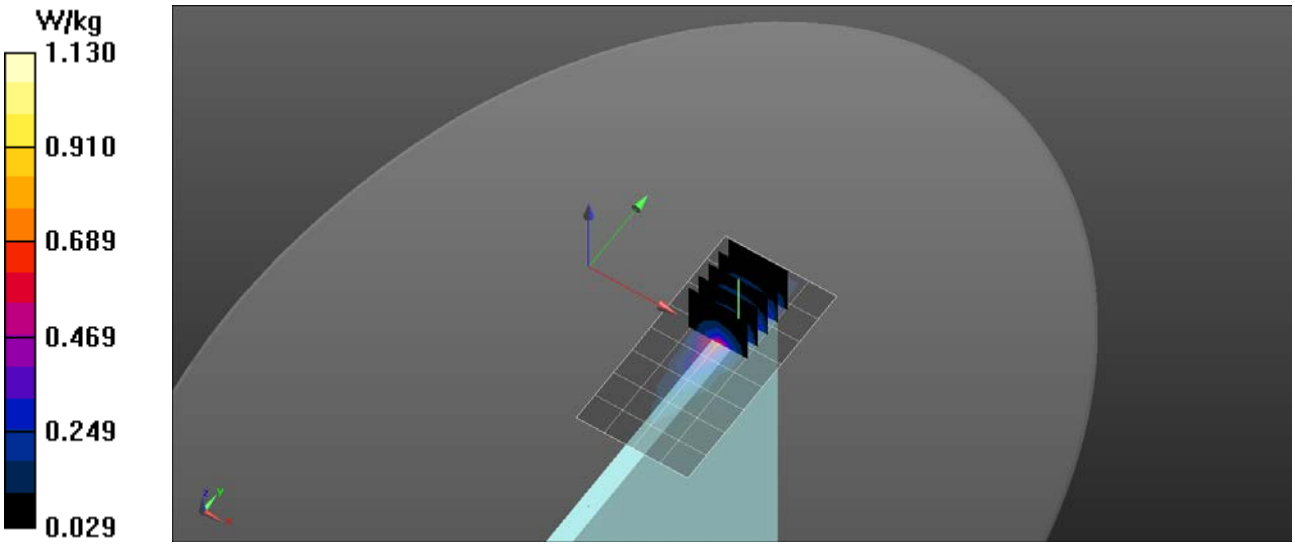
Test Date: Date: 5/31/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(7.69, 7.69, 7.69); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

1900 MHz WCDMA/Top Mid/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.06 W/kg

1900 MHz WCDMA/Top Mid/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.896 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.40 W/kg
SAR(1 g) = 0.886 W/kg
Maximum value of SAR (measured) = 1.13 W/kg



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Plot 9

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1882.5 MHz; Duty Cycle: 1:1
Medium: MSL1900; Medium parameters used (interpolated): f = 1882.5 MHz; σ = 1.57 S/m; ε_r = 52.735; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/30/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(7.69, 7.69, 7.69); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

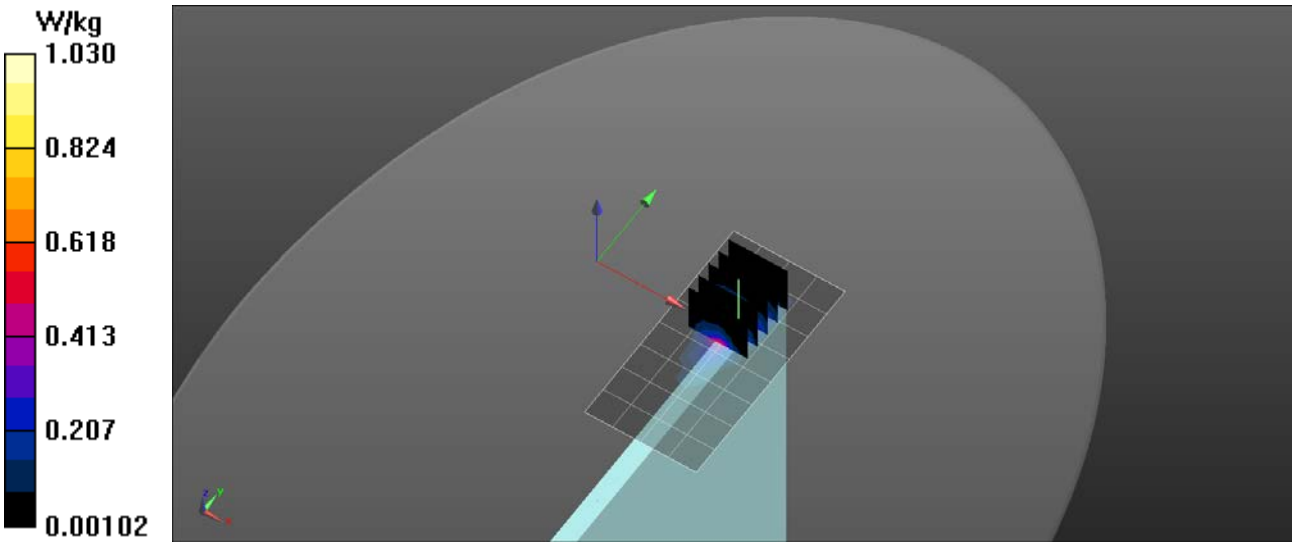
Procedure Notes:

1900 MHz B25 LTE/Top Mid 1 RB 49 Offset/Area Scan (5x9x1): Measurement grid: dx=15mm, dy=15mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.875 W/kg

1900 MHz B25 LTE/Top Mid 1 RB 49 Offset/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 0.7130 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.34 W/kg
SAR(1 g) = 0.616 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.03 W/kg



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Plot 10

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 2310 MHz; Duty Cycle: 1:1
Medium: MSL2300; Medium parameters used: f = 2310 MHz; σ = 1.83 S/m; ε_r = 52.32; ρ = 1000 kg/m^3
Phantom section: Flat Section

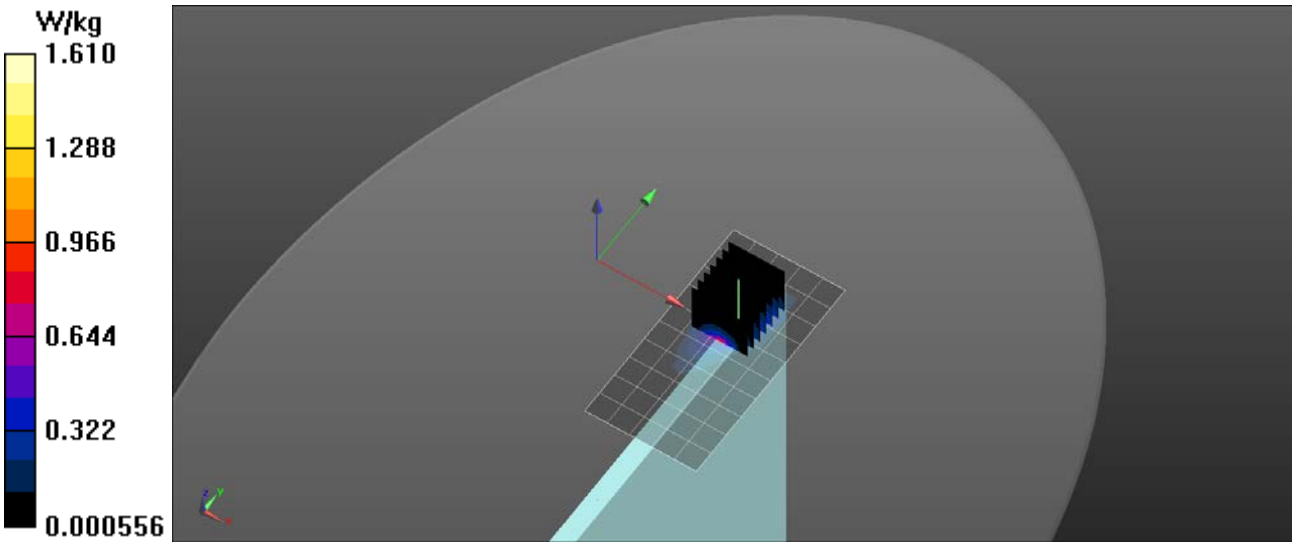
Test Date: Date: 6/3/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(7.43, 7.43, 7.43); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

2300 MHz B30 LTE/Top Mid 1 RB 24 Offset/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.13 W/kg

2300 MHz B30 LTE/Top Mid 1 RB 24 Offset/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 0.992 W/kg
Maximum value of SAR (measured) = 1.61 W/kg



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Plot 11

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz; Duty Cycle: 1:1
Medium: MSL2550; Medium parameters used (interpolated): f = 2535 MHz; σ = 2.085 S/m; ε_r = 51.805; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 6/3/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(7.12, 7.12, 7.12); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

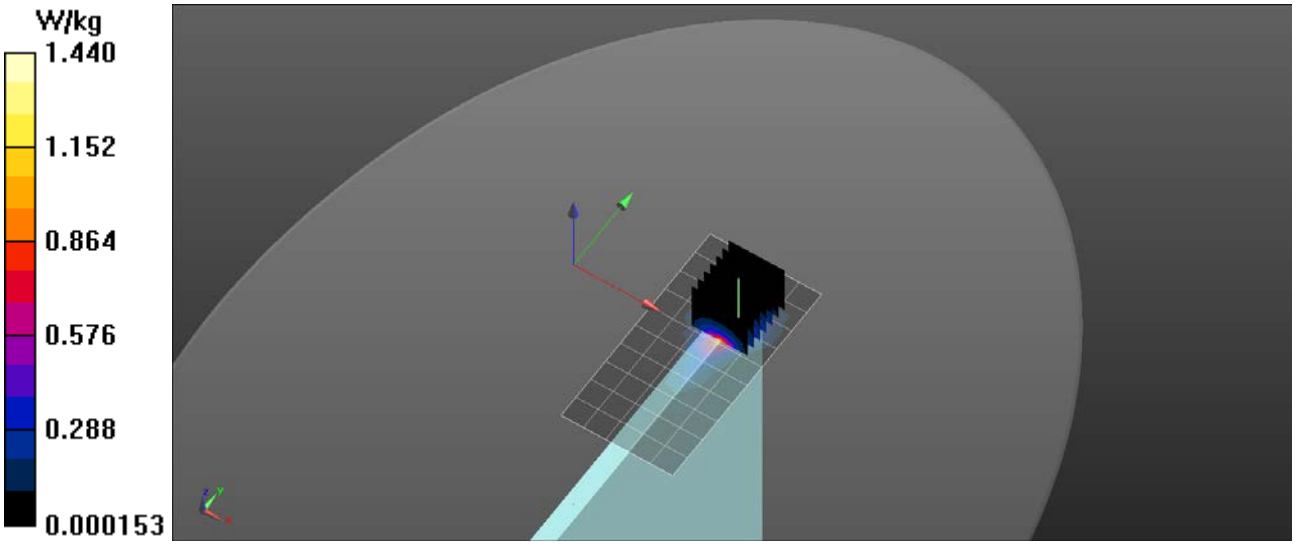
Procedure Notes:

2600 MHz B7 LTE/Top Mid 1 RB 49 Offset/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.44 W/kg

2600 MHz B7 LTE/Top Mid 1 RB 49 Offset/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 2.07 W/kg
SAR(1 g) = 0.849 W/kg

Info: Interpolated medium parameters used for SAR evaluation.



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Plot 12

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: LTE (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2593 MHz; Duty Cycle: 1:1
Medium: MSL2550; Medium parameters used (extrapolated): f = 2593 MHz; σ = 2.163 S/m; ε_r = 51.697; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 6/4/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3662; ConvF(7.12, 7.12, 7.12); Calibrated: 4/24/2019;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn1416; Calibrated: 4/16/2019
Phantom: ELI v5.0; Type: QDOVA002AA; Serial: 2037
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

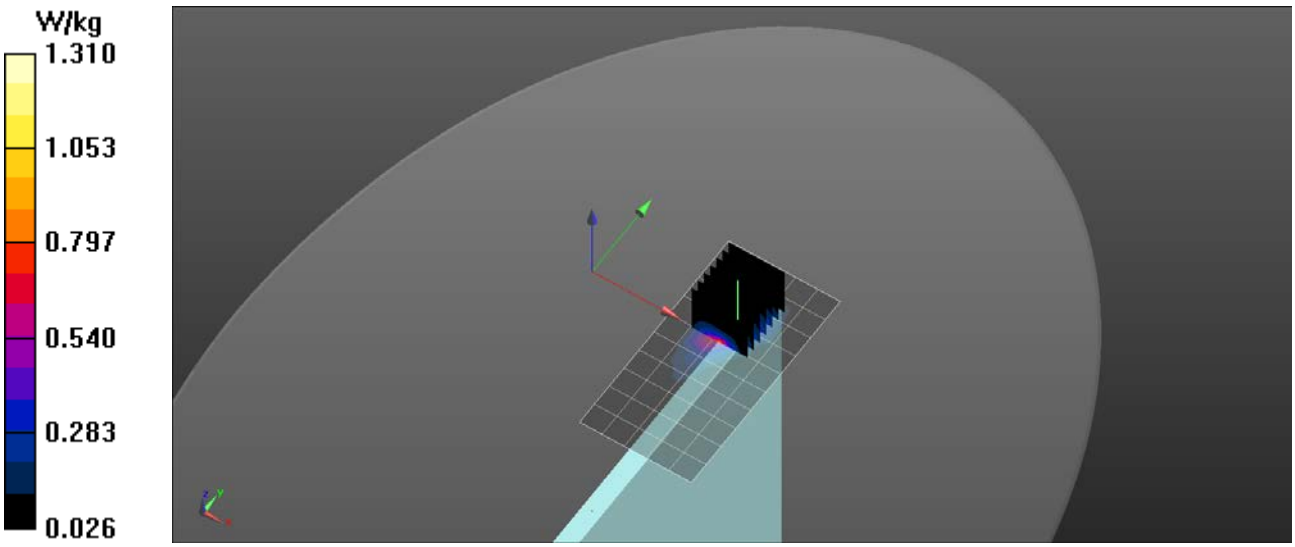
Procedure Notes:

2500 MHz B41 LTE/Top Mid 1 RB 49 Offset/Area Scan (6x11x1): Measurement grid: dx=12mm, dy=12mm

Info: Extrapolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.31 W/kg

2500 MHz B41 LTE/Top Mid 1 RB 49 Offset/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 0 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 1.63 W/kg
SAR(1 g) = 0.811 W/kg

Info: Extrapolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.31 W/kg



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Plot 13

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: WiFi 802.11b (DSSS, 1 Mbps); Frequency: 2437 MHz; Duty Cycle: 1:1
Medium: MSL2450; Medium parameters used (interpolated): f = 2437 MHz; σ = 1.947 S/m; ε_r = 52.666; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/8/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3693; ConvF(7.26, 7.26, 7.26); Calibrated: 8/18/2017;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn759; Calibrated: 8/20/2018
Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1065
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

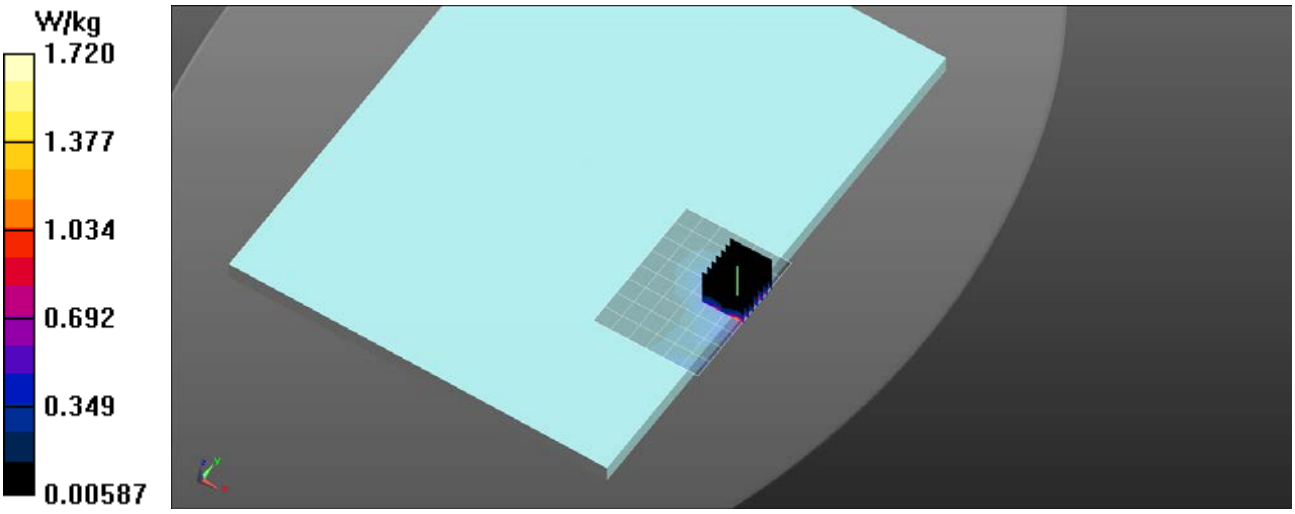
Procedure Notes:

2450 MHz Inpaq NA/Tablet Back Tx2 Mid/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.72 W/kg

2450 MHz Inpaq NA/Tablet Back Tx2 Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.202 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.04 W/kg
SAR(1 g) = 0.923 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.72 W/kg



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Plot 14

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: WiFi 802.11a (OFDM, 6 Mbps); Frequency: 5280 MHz; Duty Cycle: 1:1
Medium: MSL 3-6 GHz; Medium parameters used: f = 5280 MHz; σ = 5.31 S/m; ε_r = 48.95; ρ = 1000 kg/m^3
Phantom section: Flat Section

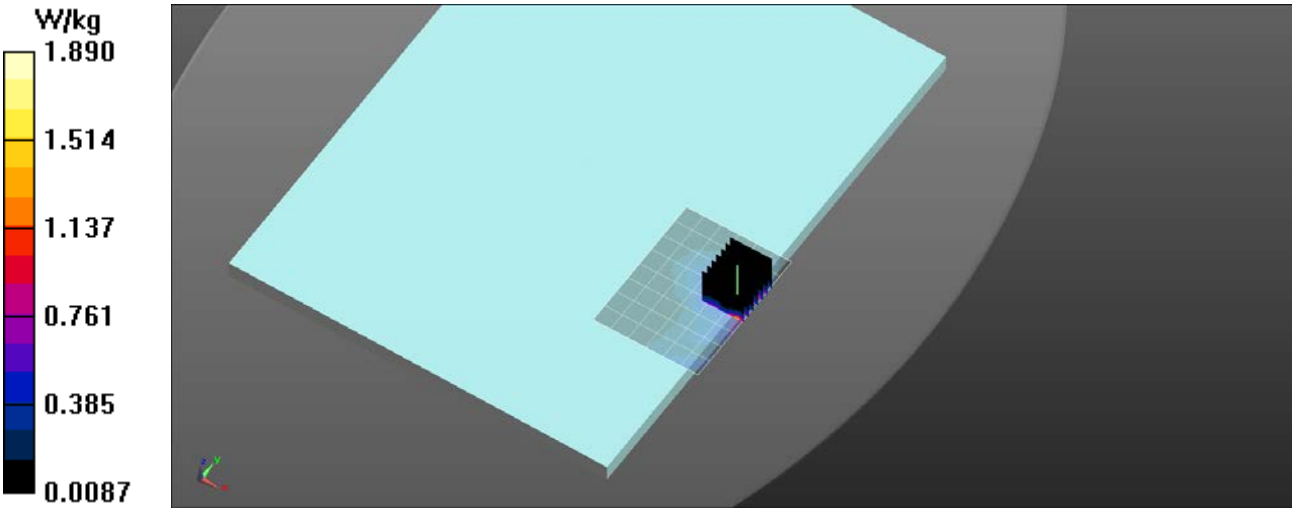
Test Date: Date: 5/3/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3693; ConvF(4.46, 4.46, 4.46); Calibrated: 8/18/2017;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn759; Calibrated: 8/20/2018
Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1065
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

5200 MHz Inpaq NA/Tablet Back Tx2 56/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.93 W/kg

5200 MHz Inpaq NA/Tablet Back Tx2 56/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 4.337 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 4.08 W/kg
SAR(1 g) = 0.951 W/kg
Maximum value of SAR (measured) = 1.89 W/kg



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Plot 15

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: WiFi 802.11a (OFDM, 6 Mbps); Frequency: 5620 MHz; Duty Cycle: 1:1
Medium: MSL 3-6 GHz; Medium parameters used: f = 5620 MHz; σ = 5.75 S/m; ε_r = 48.44; ρ = 1000 kg/m^3
Phantom section: Flat Section

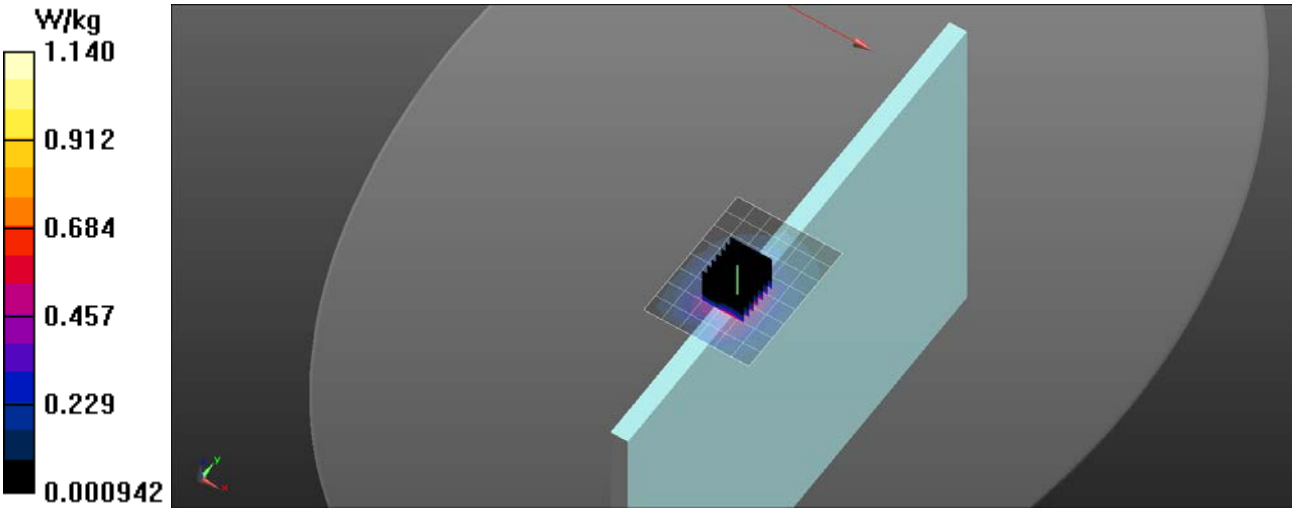
Test Date: Date: 5/7/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3693; ConvF(4, 4, 4); Calibrated: 8/18/2017;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn759; Calibrated: 8/20/2018
Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1065
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

Procedure Notes:

5600 MHz Inpaq NA/Tablet Top Tx2 124/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 1.08 W/kg

5600 MHz Inpaq NA/Tablet Top Tx2 124/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 2.620 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.20 W/kg
SAR(1 g) = 0.579 W/kg
Maximum value of SAR (measured) = 1.14 W/kg



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Plot 16

DUT: HSN-C04C; Type: Tablet PC; Serial: Eng 1

Communication System: WiFi 802.11a (OFDM, 6 Mbps); Frequency: 5825 MHz; Duty Cycle: 1:1
Medium: MSL 3-6 GHz; Medium parameters used (interpolated): f = 5825 MHz; σ = 6.025 S/m; ε_r = 48.133; ρ = 1000 kg/m^3
Phantom section: Flat Section

Test Date: Date: 5/6/2019; Ambient Temp: 23 °C; Tissue Temp: 21 °C

Probe: EX3DV4 - SN3693; ConvF(4.21, 4.21, 4.21); Calibrated: 8/18/2017;
Sensor-Surface: 2mm (Mechanical Surface Detection)
Electronics: DAE4 Sn759; Calibrated: 8/20/2018
Phantom: ELI v4.0; Type: QDOVA001BB; Serial: 1065
Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

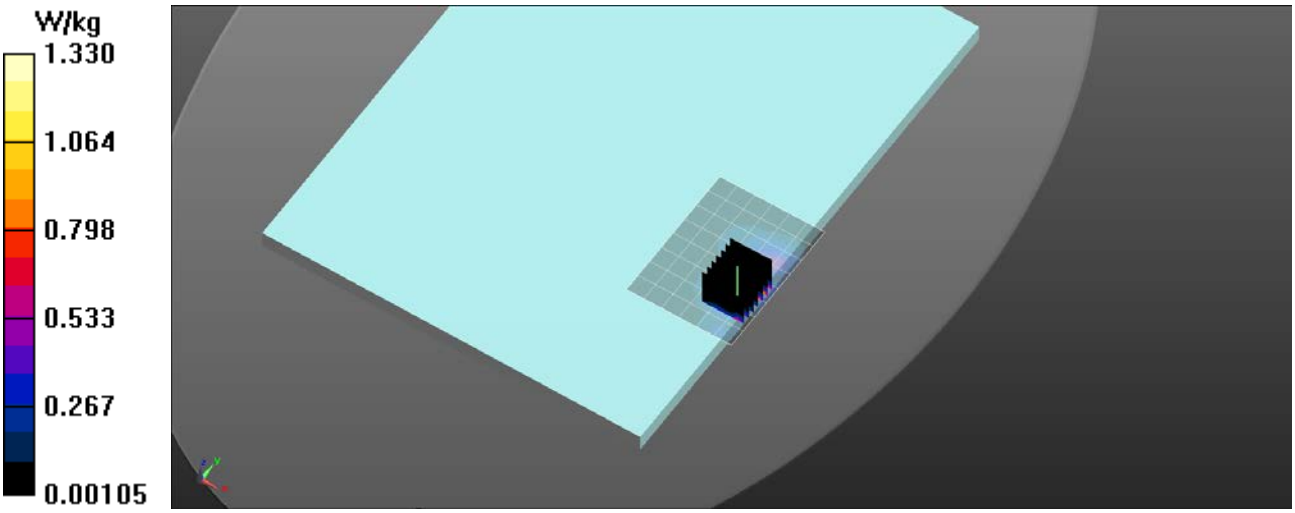
Procedure Notes:

5800 MHz Inpaq NA/Tablet Back Tx2 165/Area Scan (7x9x1): Measurement grid: dx=10mm, dy=10mm

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.747 W/kg

5800 MHz Inpaq NA/Tablet Back Tx2 165/Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm
Reference Value = 0.1940 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.89 W/kg
SAR(1 g) = 0.510 W/kg

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.33 W/kg



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Appendix D – Probe Calibration Data Sheets

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Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)
The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client RF Exposure Lab

Certificate No: EX3-3662_Apr19

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3662
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v5, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes
Calibration date:	April 24, 2019

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	03-Apr-19 (No. 217-02892/02893)	Apr-20
Power sensor NRP-Z91	SN: 103244	03-Apr-19 (No. 217-02892)	Apr-20
Power sensor NRP-Z91	SN: 103245	03-Apr-19 (No. 217-02893)	Apr-20
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-19 (No. 217-02894)	Apr-20
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: April 25, 2019

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z*: *A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3662

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.43	0.45	0.50	± 10.1 %
DCP (mV)[B]	100.7	100.3	97.0	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Max dev.	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	157.7	±1.9 %	± 4.7 %
		Y	0.0	0.0	1.0		152.9		
		Y	0.0	0.0	1.0		153.2		

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Pages 5 and 6).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3662

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-22.4
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3662

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
750	41.9	0.89	9.57	9.57	9.57	0.49	0.80	± 12.0 %
900	41.5	0.97	9.12	9.12	9.12	0.51	0.80	± 12.0 %
1750	40.1	1.37	8.23	8.23	8.23	0.38	0.85	± 12.0 %
1900	40.0	1.40	7.90	7.90	7.90	0.37	0.85	± 12.0 %
2300	39.5	1.67	7.50	7.50	7.50	0.39	0.85	± 12.0 %
2450	39.2	1.80	7.33	7.33	7.33	0.41	0.84	± 12.0 %
2600	39.0	1.96	7.21	7.21	7.21	0.42	0.85	± 12.0 %
3500	37.9	2.91	7.07	7.07	7.07	0.30	1.20	± 13.1 %
3700	37.7	3.12	6.92	6.92	6.92	0.35	1.25	± 13.1 %
5250	35.9	4.71	5.05	5.05	5.05	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.81	4.81	4.81	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.90	4.90	4.90	0.40	1.80	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3662

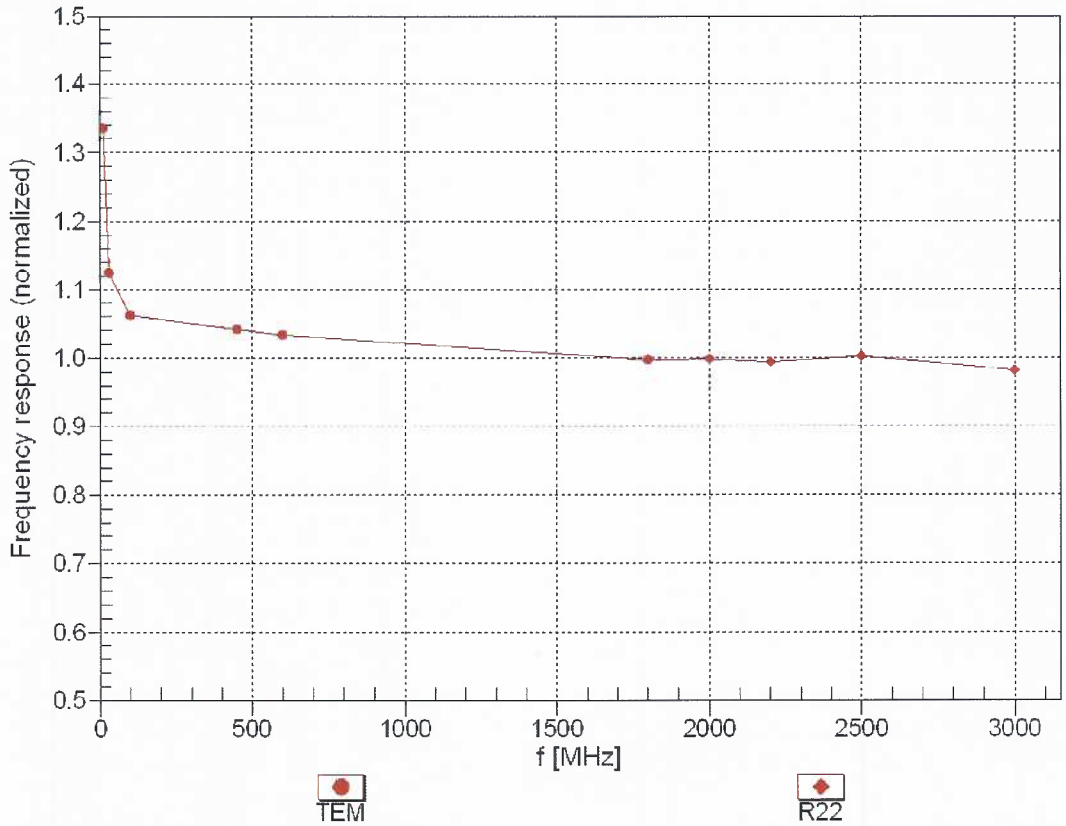
Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
750	55.5	0.96	9.55	9.55	9.55	0.47	0.80	± 12.0 %
900	55.0	1.05	9.34	9.34	9.34	0.45	0.80	± 12.0 %
1750	53.4	1.49	7.95	7.95	7.95	0.40	0.85	± 12.0 %
1900	53.3	1.52	7.69	7.69	7.69	0.43	0.84	± 12.0 %
2300	52.9	1.81	7.43	7.43	7.43	0.40	0.86	± 12.0 %
2450	52.7	1.95	7.36	7.36	7.36	0.40	0.85	± 12.0 %
2600	52.5	2.16	7.12	7.12	7.12	0.22	0.97	± 12.0 %
3500	51.3	3.31	6.83	6.83	6.83	0.30	1.25	± 13.1 %
3700	51.0	3.55	6.52	6.52	6.52	0.35	1.25	± 13.1 %
5250	48.9	5.36	4.30	4.30	4.30	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.87	3.87	3.87	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.07	4.07	4.07	0.50	1.90	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.
[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.
[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

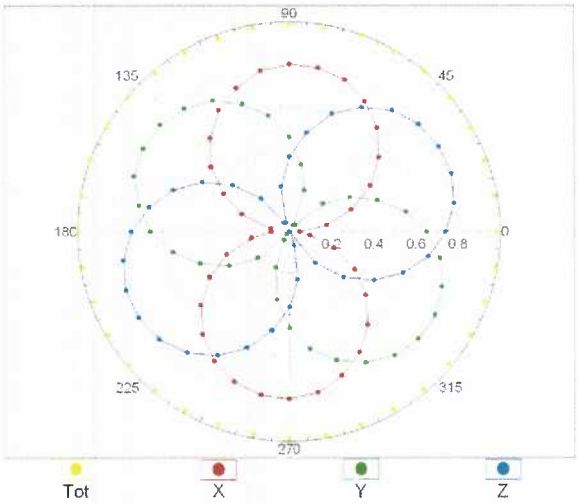
(TEM-Cell:ifi110 EXX, Waveguide: R22)



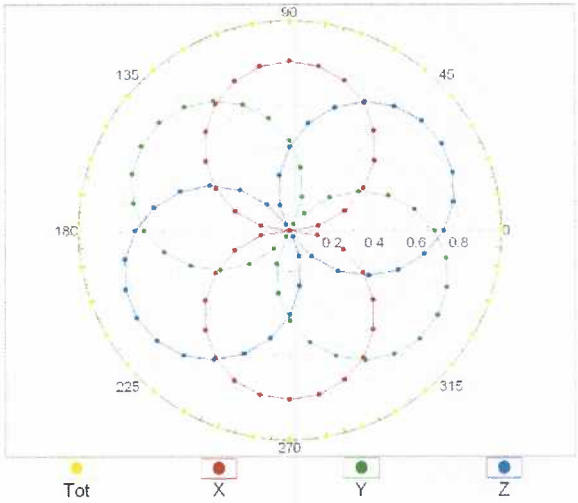
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

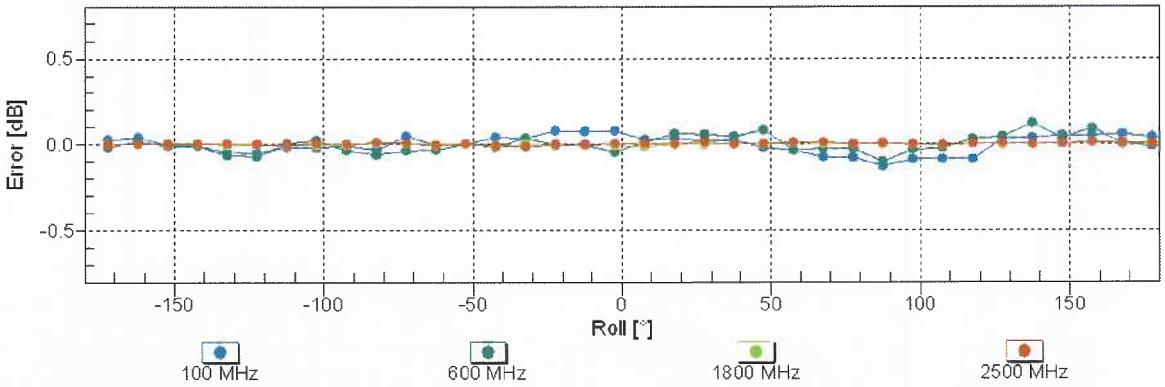
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



f=1800 MHz,R22

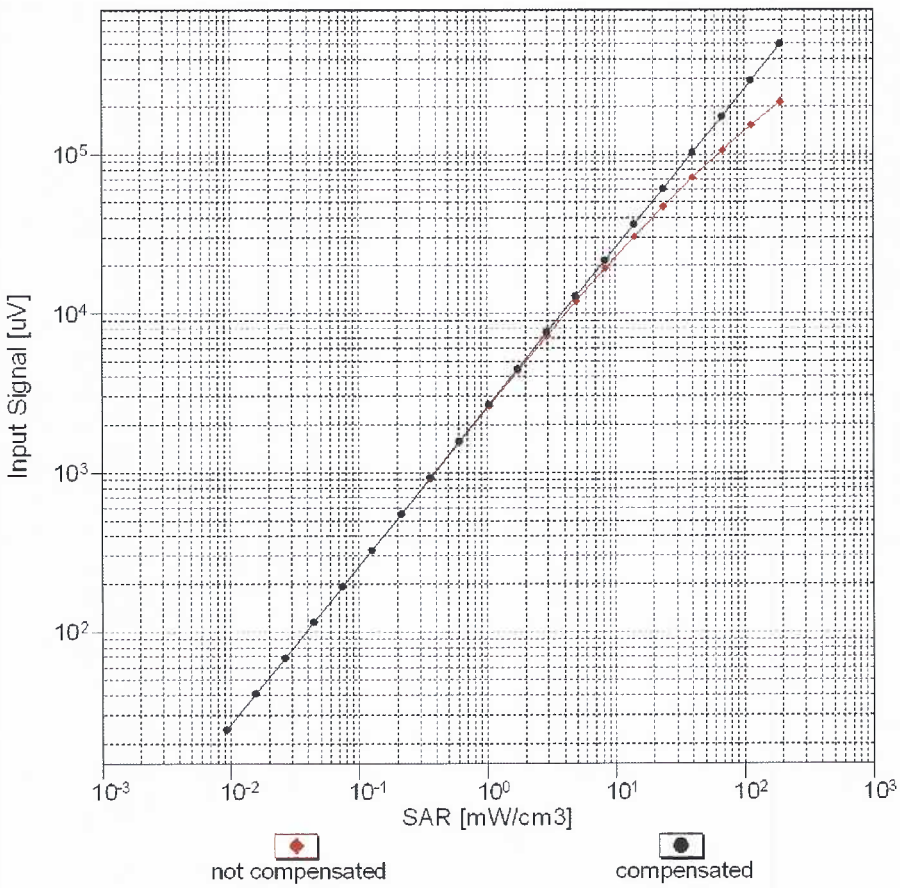


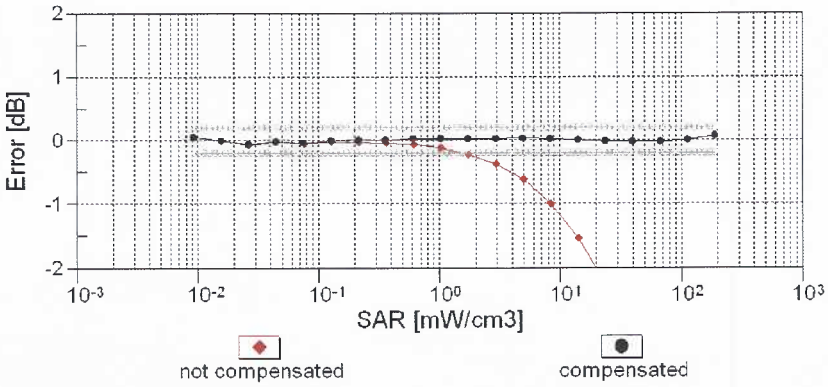


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})

(TEM cell , f_{eval}= 1900 MHz)

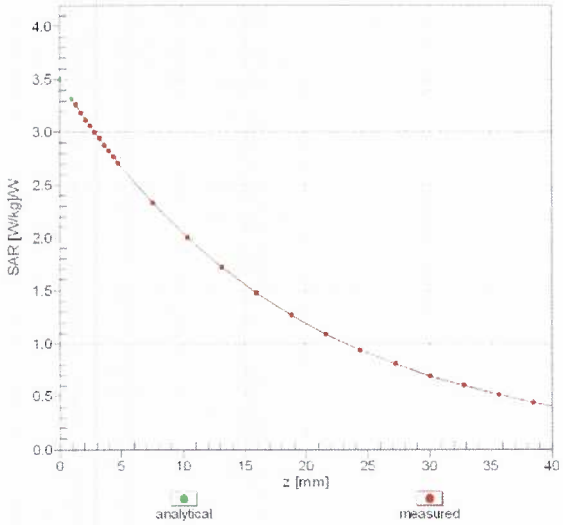




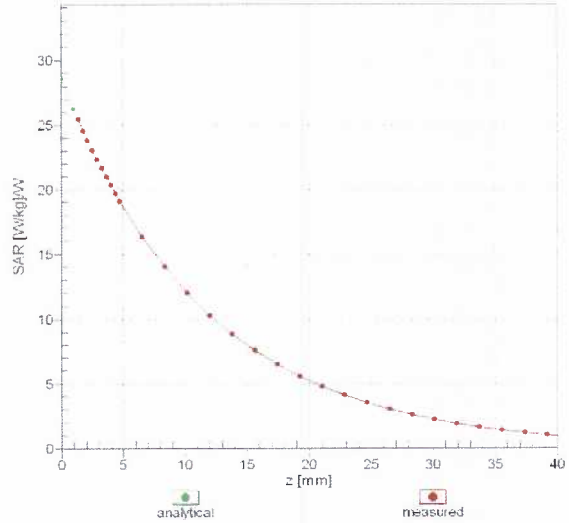
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 900 MHz,WGLS R9 (H_convF)

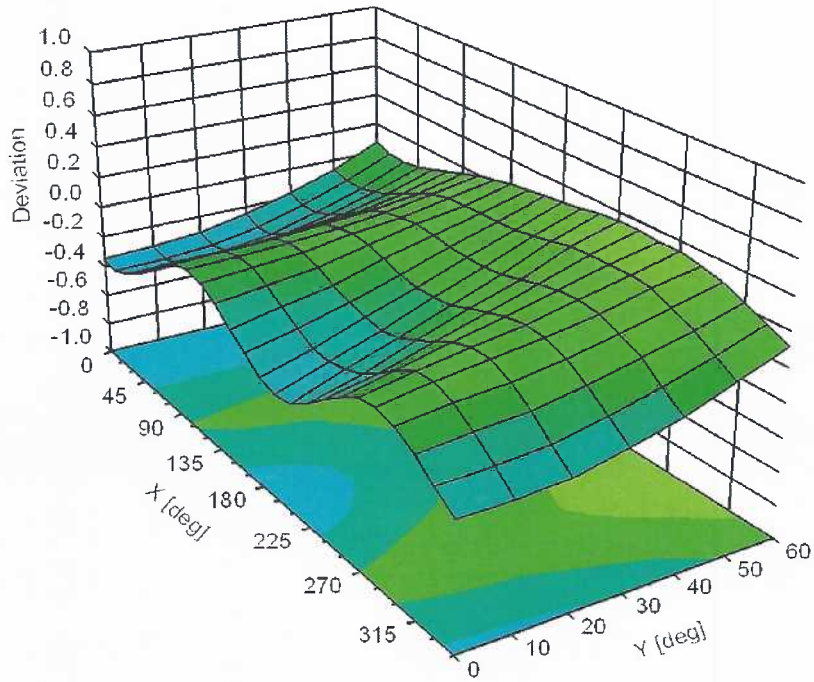


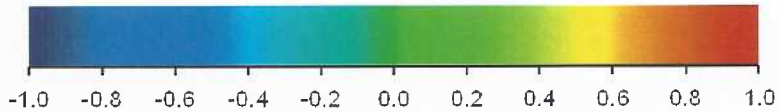
f = 1900 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz





Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Calibration Laboratory of
Schmid & Partner
Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
Servizio svizzero di taratura
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The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client RF Exposure Lab

Certificate No: EX3-3693_Aug18

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:3693
Calibration procedure(s)	QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6 Calibration procedure for dosimetric E-field probes
Calibration date:	August 27, 2018

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
Reference Probe ES3DV2	SN: 3013	30-Dec-17 (No. ES3-3013_Dec17)	Dec-18
DAE4	SN: 660	21-Dec-17 (No. DAE4-660_Dec17)	Dec-18
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-17)	In house check: Oct-18

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: August 30, 2018

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- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
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- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

Probe EX3DV4

SN:3693

Manufactured: April 22, 2009
Calibrated: August 27, 2018

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3693

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.39	0.30	0.35	± 10.1 %
DCP (mV)[B]	96.9	97.3	107.3	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	133.1	±1.7 %
		Y	0.0	0.0	1.0		130.6	
		Z	0.0	0.0	1.0		133.5	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	32.78	256.2	38.66	10.42	1.187	5.061	0.000	0.479	1.010
Y	38.15	291.7	37.34	12.40	1.152	4.996	0.986	0.358	1.004
Z	26.99	197.7	34.43	5.333	0.521	5.037	0.437	0.333	1.004

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

[A] The uncertainties of Norm X,Y,Z do not affect the E^2-field uncertainty inside TSL (see Pages 5 and 6).
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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3693

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
750	41.9	0.89	9.64	9.64	9.64	0.55	0.84	± 12.0 %
835	41.5	0.90	9.37	9.37	9.37	0.37	0.97	± 12.0 %
900	41.5	0.97	9.16	9.16	9.16	0.53	0.80	± 12.0 %
1750	40.1	1.37	8.10	8.10	8.10	0.31	0.86	± 12.0 %
1900	40.0	1.40	7.78	7.78	7.78	0.28	0.90	± 12.0 %
2300	39.5	1.67	7.42	7.42	7.42	0.32	0.92	± 12.0 %
2450	39.2	1.80	6.95	6.95	6.95	0.35	0.92	± 12.0 %
2600	39.0	1.96	6.90	6.90	6.90	0.30	0.99	± 12.0 %
5250	35.9	4.71	4.96	4.96	4.96	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.77	4.77	4.77	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.67	4.67	4.67	0.40	1.80	± 13.1 %

[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3693

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) [C]	Relative Permittivity [F]	Conductivity (S/m) [F]	ConvF X	ConvF Y	ConvF Z	Alpha [G]	Depth [G] (mm)	Unc (k=2)
750	55.5	0.96	9.77	9.77	9.77	0.46	0.85	± 12.0 %
835	55.2	0.97	9.40	9.40	9.40	0.43	0.89	± 12.0 %
900	55.0	1.05	9.25	9.25	9.25	0.39	0.93	± 12.0 %
1750	53.4	1.49	7.77	7.77	7.77	0.32	0.89	± 12.0 %
1900	53.3	1.52	7.44	7.44	7.44	0.40	0.93	± 12.0 %
2300	52.9	1.81	7.43	7.43	7.43	0.40	0.90	± 12.0 %
2450	52.7	1.95	7.29	7.29	7.29	0.31	0.95	± 12.0 %
2600	52.5	2.16	7.13	7.13	7.13	0.29	1.05	± 12.0 %
5250	48.9	5.36	4.46	4.46	4.46	0.50	1.90	± 13.1 %
5600	48.5	5.77	3.91	3.91	3.91	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.05	4.05	4.05	0.50	1.90	± 13.1 %

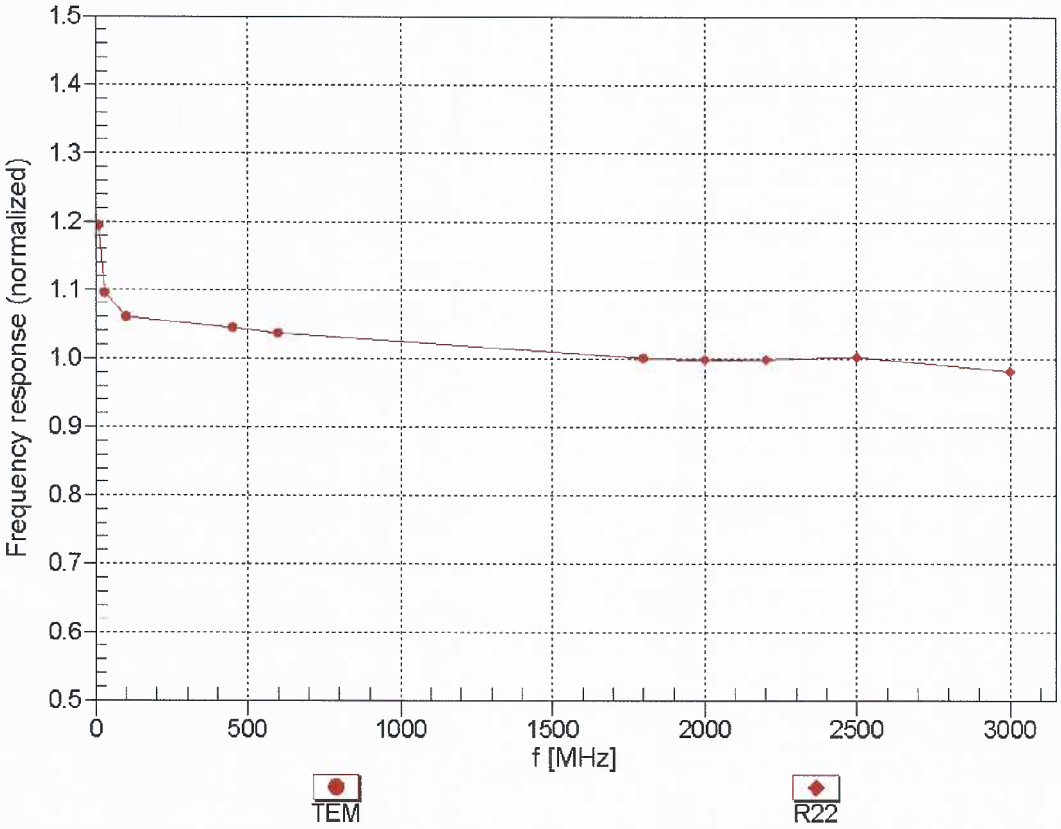
[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

[G] Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

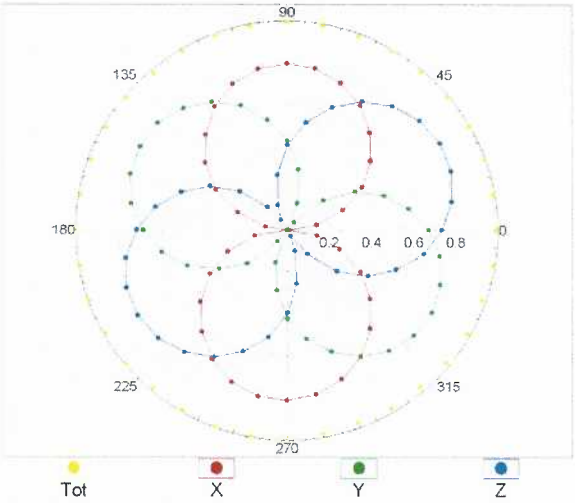
(TEM-Cell:ifi110 EXX, Waveguide: R22)



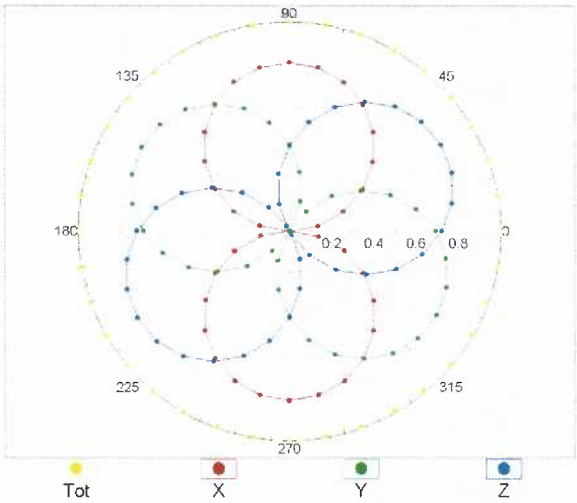
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

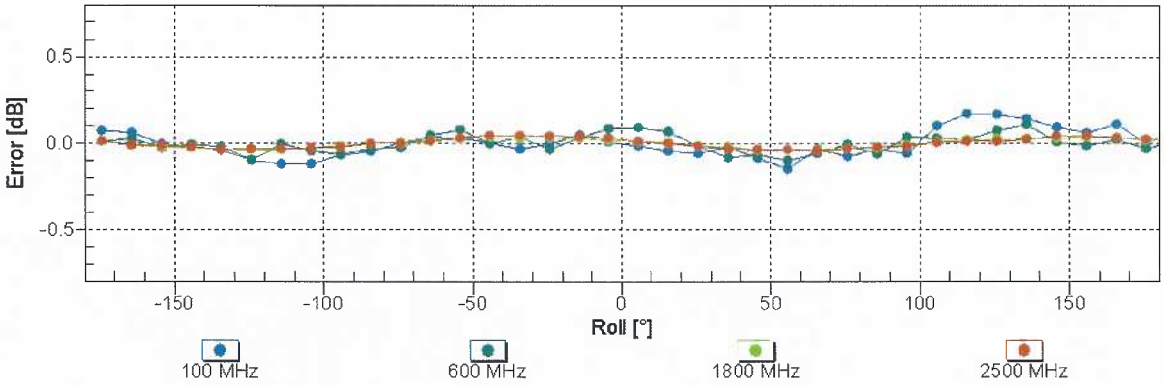
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



f=1800 MHz,R22

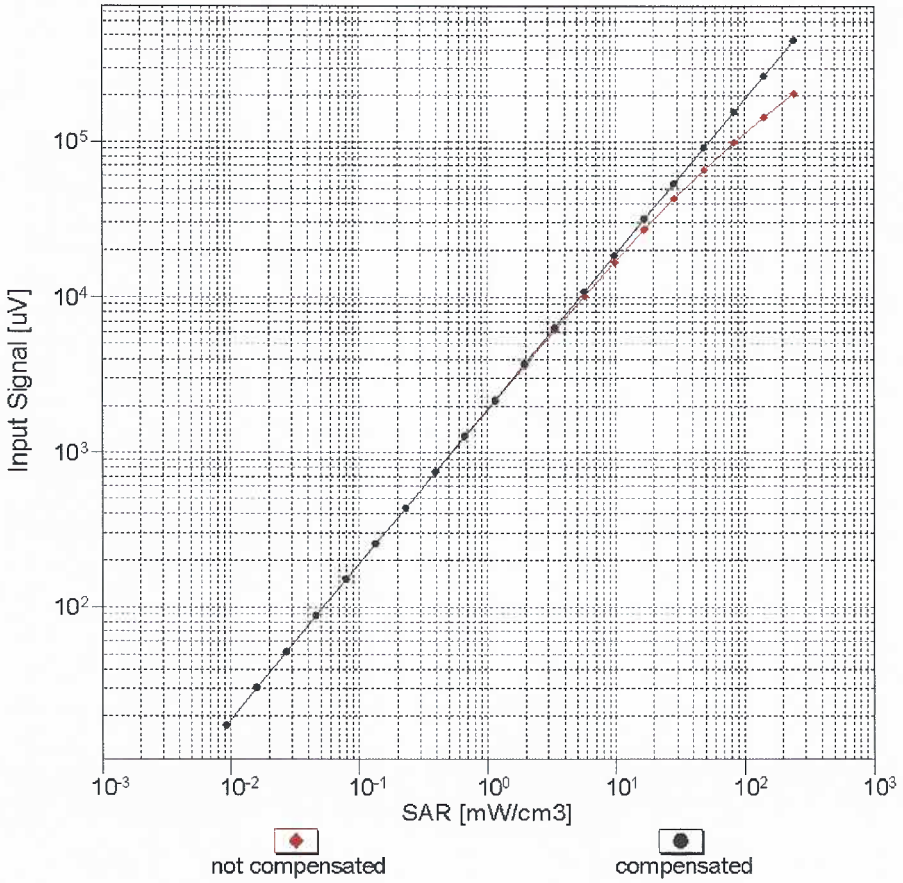


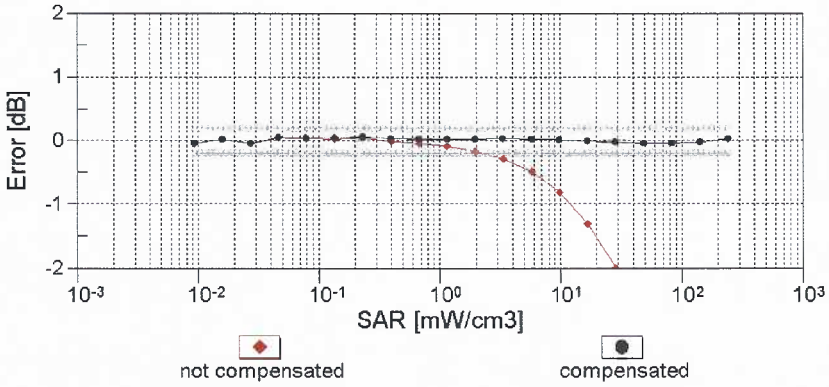


Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR$_{head}$)

(TEM cell , f_{eval}= 1900 MHz)

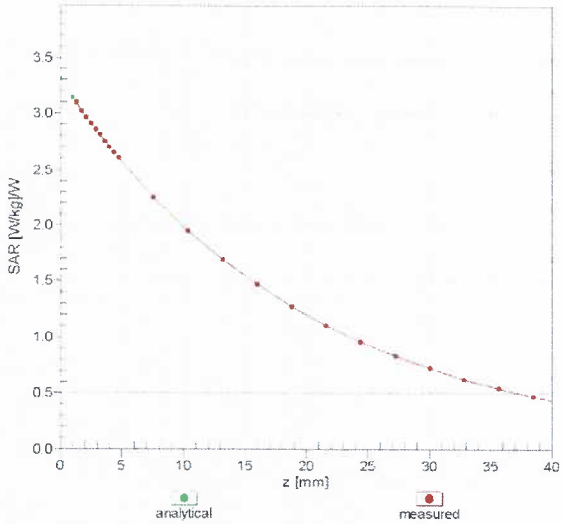




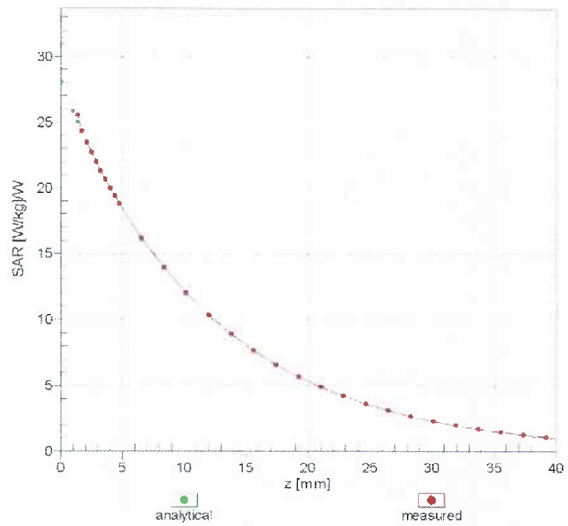
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

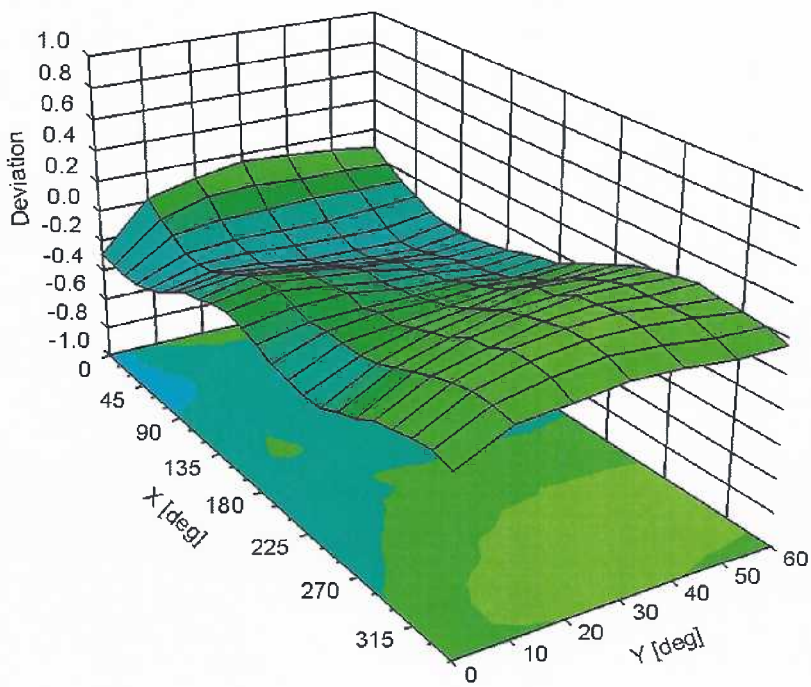


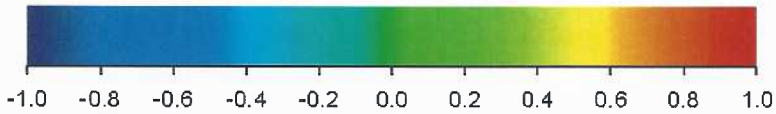
f = 1900 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz





Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3693

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	105.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Max Unc[E] (k=2)
0	CW	X	0.00	0.00	1.00	0.00	133.1	± 1.7 %
		Y	0.00	0.00	1.00		130.6	
		Z	0.00	0.00	1.00		133.5	
10010-CAA	SAR Validation (Square, 100ms, 10ms)	X	2.51	65.57	10.47	10.00	20.0	± 9.6 %
		Y	2.40	65.09	10.16		20.0	
		Z	1.89	63.20	8.39		20.0	
10011-CAB	UMTS-FDD (WCDMA)	X	0.91	68.37	14.94	0.00	150.0	± 9.6 %
		Y	1.35	74.07	18.63		150.0	
		Z	0.82	66.98	14.05		150.0	
10012-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.06	64.24	15.41	0.41	150.0	± 9.6 %
		Y	1.17	65.38	16.46		150.0	
		Z	1.03	63.69	14.73		150.0	
10013-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.62	66.97	17.24	1.46	150.0	± 9.6 %
		Y	4.73	66.91	17.24		150.0	
		Z	4.44	66.96	16.86		150.0	
10021-DAC	GSM-FDD (TDMA, GMSK)	X	100.00	113.69	27.59	9.39	50.0	± 9.6 %
		Y	15.92	88.65	20.46		50.0	
		Z	100.00	107.55	24.08		50.0	
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	113.26	27.45	9.57	50.0	± 9.6 %
		Y	10.59	83.36	18.82		50.0	
		Z	35.50	95.64	21.13		50.0	
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	110.83	25.00	6.56	60.0	± 9.6 %
		Y	100.00	107.89	23.67		60.0	
		Z	100.00	105.51	21.87		60.0	
10025-DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	3.94	66.80	23.64	12.57	50.0	± 9.6 %
		Y	4.42	70.18	25.25		50.0	
		Z	3.29	63.55	21.61		50.0	
10026-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	8.10	88.70	31.28	9.56	60.0	± 9.6 %
		Y	8.90	90.14	31.40		60.0	
		Z	5.79	82.38	28.74		60.0	
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	109.25	23.40	4.80	80.0	± 9.6 %
		Y	100.00	106.54	22.28		80.0	
		Z	100.00	104.71	20.66		80.0	
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	107.37	21.81	3.55	100.0	± 9.6 %
		Y	100.00	106.10	21.41		100.0	
		Z	100.00	103.48	19.41		100.0	
10029-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	5.40	80.16	26.89	7.80	80.0	± 9.6 %
		Y	5.81	81.12	26.89		80.0	
		Z	3.99	74.82	24.51		80.0	
10030-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	107.75	23.04	5.30	70.0	± 9.6 %
		Y	100.00	105.38	22.04		70.0	
		Z	100.00	102.15	19.84		70.0	
10031-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	0.32	60.24	5.01	1.88	100.0	± 9.6 %
		Y	100.00	98.91	17.16		100.0	
		Z	0.21	60.00	4.08		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	49.70	283.71	16.38	1.17	100.0	± 9.6 %
		Y	100.00	94.28	14.55		100.0	
		Z	21.39	60.54	1.42		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	10.55	88.91	21.86	5.30	70.0	± 9.6 %
		Y	7.04	83.33	20.28		70.0	
		Z	5.31	79.96	17.86		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	1.97	70.15	12.93	1.88	100.0	± 9.6 %
		Y	3.62	77.97	16.97		100.0	
		Z	1.05	64.71	9.63		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.21	66.21	10.77	1.17	100.0	± 9.6 %
		Y	2.71	75.92	16.05		100.0	
		Z	0.74	62.66	8.21		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	16.37	95.16	23.78	5.30	70.0	± 9.6 %
		Y	9.05	87.03	21.55		70.0	
		Z	7.29	84.15	19.32		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	1.77	69.16	12.52	1.88	100.0	± 9.6 %
		Y	3.14	76.38	16.39		100.0	
		Z	0.98	64.10	9.34		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.24	66.70	11.11	1.17	100.0	± 9.6 %
		Y	2.88	76.97	16.58		100.0	
		Z	0.76	62.89	8.45		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	0.64	62.07	7.96	0.00	150.0	± 9.6 %
		Y	4.76	84.60	18.89		150.0	
		Z	0.45	60.19	6.19		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	108.14	24.10	7.78	50.0	± 9.6 %
		Y	8.20	80.05	16.33		50.0	
		Z	9.72	81.12	15.57		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	65.80	22.18	0.00	150.0	± 9.6 %
		Y	0.05	126.22	5.06		150.0	
		Z	0.16	126.88	0.43		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	10.50	80.73	19.78	13.80	25.0	± 9.6 %
		Y	6.27	73.47	16.77		25.0	
		Z	6.57	72.48	15.23		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	13.23	86.11	20.42	10.79	40.0	± 9.6 %
		Y	6.76	76.65	16.75		40.0	
		Z	6.92	76.03	15.42		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	12.01	87.16	22.22	9.03	50.0	± 9.6 %
		Y	8.86	82.28	20.46		50.0	
		Z	10.91	84.91	20.22		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	4.26	75.92	24.41	6.55	100.0	± 9.6 %
		Y	4.53	76.62	24.38		100.0	
		Z	3.28	71.52	22.33		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.12	65.70	16.18	0.61	110.0	± 9.6 %
		Y	1.24	66.83	17.14		110.0	
		Z	1.04	64.56	15.22		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	134.39	33.58	1.30	110.0	± 9.6 %
		Y	100.00	136.71	34.87		110.0	
		Z	12.40	108.39	28.07		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	4.70	89.70	25.19	2.04	110.0	± 9.6 %
		Y	4.44	87.85	24.54		110.0	
		Z	2.03	77.34	20.69		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.38	66.79	16.57	0.49	100.0	± 9.6 %
		Y	4.54	66.95	16.76		100.0	
		Z	4.22	66.86	16.25		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.41	66.93	16.69	0.72	100.0	± 9.6 %
		Y	4.56	67.04	16.83		100.0	
		Z	4.24	66.98	16.36		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.64	67.13	16.89	0.86	100.0	± 9.6 %
		Y	4.80	67.21	17.01		100.0	
		Z	4.45	67.14	16.54		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.53	67.01	16.99	1.21	100.0	± 9.6 %
		Y	4.68	67.08	17.07		100.0	
		Z	4.33	66.96	16.60		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.55	67.05	17.17	1.46	100.0	± 9.6 %
		Y	4.69	67.08	17.21		100.0	
		Z	4.34	66.93	16.73		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	4.86	67.41	17.69	2.04	100.0	± 9.6 %
		Y	4.98	67.30	17.64		100.0	
		Z	4.60	67.16	17.18		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	4.91	67.37	17.88	2.55	100.0	± 9.6 %
		Y	5.01	67.22	17.78		100.0	
		Z	4.67	67.20	17.41		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	4.98	67.41	18.07	2.67	100.0	± 9.6 %
		Y	5.09	67.26	17.97		100.0	
		Z	4.70	67.15	17.55		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.74	67.09	17.56	1.99	100.0	± 9.6 %
		Y	4.83	66.96	17.50		100.0	
		Z	4.54	67.04	17.16		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.71	67.40	17.79	2.30	100.0	± 9.6 %
		Y	4.80	67.26	17.69		100.0	
		Z	4.48	67.21	17.32		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.81	67.70	18.18	2.83	100.0	± 9.6 %
		Y	4.87	67.45	18.00		100.0	
		Z	4.56	67.46	17.69		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.84	67.73	18.37	3.30	100.0	± 9.6 %
		Y	4.88	67.39	18.13		100.0	
		Z	4.59	67.52	17.89		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.89	67.79	18.64	3.82	90.0	± 9.6 %
		Y	4.92	67.45	18.38		90.0	
		Z	4.63	67.54	18.14		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.95	67.71	18.84	4.15	90.0	± 9.6 %
		Y	4.96	67.32	18.54		90.0	
		Z	4.68	67.42	18.31		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.99	67.84	18.96	4.30	90.0	± 9.6 %
		Y	5.00	67.42	18.65		90.0	
		Z	4.72	67.54	18.44		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.35	60.00	5.91	0.00	150.0	± 9.6 %
		Y	0.93	68.99	12.63		150.0	
		Z	0.31	60.00	5.31		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.74	60.00	4.42	4.77	80.0	± 9.6 %
		Y	0.78	60.00	4.54		80.0	
		Z	0.63	60.00	3.21		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	110.96	25.08	6.56	60.0	± 9.6 %
		Y	100.00	107.95	23.71		60.0	
		Z	100.00	105.61	21.93		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.73	68.88	15.45	0.00	150.0	± 9.6 %
		Y	2.11	71.60	17.53		150.0	
		Z	1.64	68.63	14.86		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.69	68.83	15.43	0.00	150.0	± 9.6 %
		Y	2.06	71.60	17.53		150.0	
		Z	1.60	68.55	14.84		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	8.15	88.80	31.31	9.56	60.0	± 9.6 %
		Y	8.95	90.21	31.41		60.0	
		Z	5.83	82.50	28.78		60.0	
10100-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.86	70.20	16.73	0.00	150.0	± 9.6 %
		Y	3.31	72.31	17.94		150.0	
		Z	2.70	69.79	16.38		150.0	
10101-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	2.97	67.29	15.87	0.00	150.0	± 9.6 %
		Y	3.22	68.29	16.58		150.0	
		Z	2.86	67.20	15.57		150.0	
10102-CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.08	67.33	16.00	0.00	150.0	± 9.6 %
		Y	3.32	68.25	16.66		150.0	
		Z	2.97	67.28	15.71		150.0	
10103-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.99	75.93	20.73	3.98	65.0	± 9.6 %
		Y	6.07	75.29	20.20		65.0	
		Z	4.92	73.90	19.72		65.0	
10104-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.78	73.18	20.28	3.98	65.0	± 9.6 %
		Y	6.05	73.33	20.14		65.0	
		Z	4.95	71.50	19.26		65.0	
10105-CAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.44	71.81	19.96	3.98	65.0	± 9.6 %
		Y	5.66	71.91	19.81		65.0	
		Z	4.62	69.93	18.84		65.0	
10108-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.46	69.75	16.61	0.00	150.0	± 9.6 %
		Y	2.87	71.83	17.90		150.0	
		Z	2.29	69.26	16.18		150.0	
10109-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.61	67.38	15.71	0.00	150.0	± 9.6 %
		Y	2.88	68.51	16.60		150.0	
		Z	2.50	67.30	15.35		150.0	
10110-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	1.94	69.06	15.97	0.00	150.0	± 9.6 %
		Y	2.36	71.54	17.68		150.0	
		Z	1.77	68.41	15.33		150.0	
10111-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.37	68.86	15.85	0.00	150.0	± 9.6 %
		Y	2.75	70.67	17.33		150.0	
		Z	2.26	68.83	15.37		150.0	

10112-CAF	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.74	67.47	15.80	0.00	150.0	± 9.6 %
		Y	3.01	68.49	16.64		150.0	
		Z	2.63	67.46	15.47		150.0	
10113-CAF	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.52	69.06	16.02	0.00	150.0	± 9.6 %
		Y	2.90	70.76	17.42		150.0	
		Z	2.40	69.05	15.53		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.85	67.10	16.54	0.00	150.0	± 9.6 %
		Y	5.01	67.40	16.77		150.0	
		Z	4.69	67.08	16.26		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.09	67.17	16.57	0.00	150.0	± 9.6 %
		Y	5.27	67.46	16.79		150.0	
		Z	4.91	67.15	16.27		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	4.92	67.25	16.54	0.00	150.0	± 9.6 %
		Y	5.11	67.62	16.80		150.0	
		Z	4.75	67.24	16.26		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.82	66.96	16.49	0.00	150.0	± 9.6 %
		Y	5.00	67.35	16.76		150.0	
		Z	4.67	66.99	16.23		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.18	67.44	16.71	0.00	150.0	± 9.6 %
		Y	5.35	67.70	16.92		150.0	
		Z	4.97	67.29	16.35		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	4.93	67.30	16.57	0.00	150.0	± 9.6 %
		Y	5.10	67.61	16.81		150.0	
		Z	4.76	67.27	16.28		150.0	
10140-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.09	67.34	15.89	0.00	150.0	± 9.6 %
		Y	3.34	68.25	16.56		150.0	
		Z	2.97	67.29	15.60		150.0	
10141-CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.22	67.55	16.12	0.00	150.0	± 9.6 %
		Y	3.47	68.39	16.75		150.0	
		Z	3.11	67.58	15.86		150.0	
10142-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.65	68.54	14.75	0.00	150.0	± 9.6 %
		Y	2.23	72.50	17.47		150.0	
		Z	1.45	67.51	13.76		150.0	
10143-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.04	68.18	14.12	0.00	150.0	± 9.6 %
		Y	2.77	72.39	17.05		150.0	
		Z	1.79	67.15	12.96		150.0	
10144-CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	1.68	64.77	11.84	0.00	150.0	± 9.6 %
		Y	2.17	67.69	14.28		150.0	
		Z	1.45	63.78	10.64		150.0	
10145-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.57	60.00	5.87	0.00	150.0	± 9.6 %
		Y	0.86	62.73	9.11		150.0	
		Z	0.48	60.00	5.03		150.0	
10146-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	0.85	60.00	5.89	0.00	150.0	± 9.6 %
		Y	1.15	61.47	7.56		150.0	
		Z	0.69	60.00	4.71		150.0	
10147-CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	0.86	60.00	5.95	0.00	150.0	± 9.6 %
		Y	1.22	62.00	7.94		150.0	
		Z	0.70	60.00	4.76		150.0	

10149-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.62	67.46	15.77	0.00	150.0	± 9.6 %
		Y	2.89	68.60	16.66		150.0	
		Z	2.51	67.39	15.41		150.0	
10150-CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.75	67.54	15.86	0.00	150.0	± 9.6 %
		Y	3.02	68.57	16.69		150.0	
		Z	2.64	67.55	15.53		150.0	
10151-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	6.60	79.47	22.11	3.98	65.0	± 9.6 %
		Y	6.59	78.37	21.43		65.0	
		Z	5.32	77.23	21.01		65.0	
10152-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.33	73.23	19.77	3.98	65.0	± 9.6 %
		Y	5.58	73.27	19.68		65.0	
		Z	4.46	71.33	18.57		65.0	
10153-CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.80	74.65	20.79	3.98	65.0	± 9.6 %
		Y	6.01	74.50	20.60		65.0	
		Z	4.89	72.87	19.68		65.0	
10154-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	1.99	69.55	16.25	0.00	150.0	± 9.6 %
		Y	2.44	72.19	18.04		150.0	
		Z	1.82	68.87	15.60		150.0	
10155-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.38	68.92	15.90	0.00	150.0	± 9.6 %
		Y	2.75	70.72	17.36		150.0	
		Z	2.27	68.91	15.43		150.0	
10156-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.40	67.46	13.55	0.00	150.0	± 9.6 %
		Y	2.14	73.17	17.29		150.0	
		Z	1.18	66.04	12.26		150.0	
10157-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.42	64.20	10.93	0.00	150.0	± 9.6 %
		Y	2.05	68.56	14.27		150.0	
		Z	1.16	62.82	9.46		150.0	
10158-CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.53	69.18	16.09	0.00	150.0	± 9.6 %
		Y	2.91	70.88	17.49		150.0	
		Z	2.41	69.20	15.62		150.0	
10159-CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	1.47	64.37	11.06	0.00	150.0	± 9.6 %
		Y	2.17	69.13	14.58		150.0	
		Z	1.20	62.92	9.54		150.0	
10160-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.54	69.31	16.47	0.00	150.0	± 9.6 %
		Y	2.87	70.85	17.58		150.0	
		Z	2.32	68.65	15.89		150.0	
10161-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.63	67.51	15.68	0.00	150.0	± 9.6 %
		Y	2.92	68.64	16.63		150.0	
		Z	2.51	67.49	15.29		150.0	
10162-CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.75	67.78	15.85	0.00	150.0	± 9.6 %
		Y	3.03	68.85	16.76		150.0	
		Z	2.62	67.80	15.48		150.0	
10166-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.17	69.88	19.75	3.01	150.0	± 9.6 %
		Y	3.43	70.48	19.76		150.0	
		Z	2.81	68.26	18.43		150.0	
10167-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	3.81	72.89	20.15	3.01	150.0	± 9.6 %
		Y	4.38	74.23	20.42		150.0	
		Z	3.25	70.82	18.68		150.0	

10168-CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.50	76.69	22.26	3.01	150.0	± 9.6 %
		Y	5.20	77.95	22.40		150.0	
		Z	3.82	74.38	20.74		150.0	
10169-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.60	68.07	18.92	3.01	150.0	± 9.6 %
		Y	2.86	69.54	19.35		150.0	
		Z	2.42	66.98	17.74		150.0	
10170-CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.49	74.33	21.57	3.01	150.0	± 9.6 %
		Y	4.36	77.73	22.58		150.0	
		Z	3.17	72.75	20.22		150.0	
10171-AAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.78	69.40	18.22	3.01	150.0	± 9.6 %
		Y	3.30	71.79	18.96		150.0	
		Z	2.51	68.00	16.90		150.0	
10172-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	5.91	86.87	27.62	6.02	65.0	± 9.6 %
		Y	6.32	86.01	26.16		65.0	
		Z	3.09	75.39	22.58		65.0	
10173-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	13.09	98.55	29.49	6.02	65.0	± 9.6 %
		Y	12.30	93.80	26.59		65.0	
		Z	5.66	84.54	24.14		65.0	
10174-CAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	8.21	89.21	25.92	6.02	65.0	± 9.6 %
		Y	7.97	85.68	23.40		65.0	
		Z	3.39	75.61	20.33		65.0	
10175-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.56	67.73	18.64	3.01	150.0	± 9.6 %
		Y	2.82	69.16	19.06		150.0	
		Z	2.39	66.65	17.46		150.0	
10176-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.50	74.35	21.59	3.01	150.0	± 9.6 %
		Y	4.37	77.76	22.59		150.0	
		Z	3.17	72.78	20.23		150.0	
10177-CAH	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.58	67.87	18.72	3.01	150.0	± 9.6 %
		Y	2.85	69.33	19.15		150.0	
		Z	2.40	66.77	17.53		150.0	
10178-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.47	74.17	21.48	3.01	150.0	± 9.6 %
		Y	4.32	77.50	22.46		150.0	
		Z	3.15	72.62	20.14		150.0	
10179-CAF	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.09	71.68	19.74	3.01	150.0	± 9.6 %
		Y	3.76	74.51	20.58		150.0	
		Z	2.79	70.11	18.36		150.0	
10180-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.78	69.36	18.19	3.01	150.0	± 9.6 %
		Y	3.29	71.72	18.91		150.0	
		Z	2.51	67.97	16.87		150.0	
10181-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.58	67.85	18.72	3.01	150.0	± 9.6 %
		Y	2.84	69.31	19.15		150.0	
		Z	2.40	66.75	17.53		150.0	
10182-CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.46	74.14	21.47	3.01	150.0	± 9.6 %
		Y	4.31	77.47	22.45		150.0	
		Z	3.15	72.59	20.13		150.0	
10183-AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.77	69.34	18.18	3.01	150.0	± 9.6 %
		Y	3.28	71.69	18.90		150.0	
		Z	2.51	67.95	16.86		150.0	

10184-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.59	67.89	18.74	3.01	150.0	± 9.6 %
		Y	2.85	69.35	19.17		150.0	
		Z	2.40	66.79	17.55		150.0	
10185-CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.48	74.22	21.51	3.01	150.0	± 9.6 %
		Y	4.33	77.57	22.50		150.0	
		Z	3.16	72.68	20.17		150.0	
10186-AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	2.79	69.40	18.21	3.01	150.0	± 9.6 %
		Y	3.30	71.77	18.93		150.0	
		Z	2.52	68.00	16.89		150.0	
10187-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.60	67.99	18.84	3.01	150.0	± 9.6 %
		Y	2.87	69.44	19.26		150.0	
		Z	2.42	66.90	17.66		150.0	
10188-CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.60	74.96	21.95	3.01	150.0	± 9.6 %
		Y	4.53	78.50	22.98		150.0	
		Z	3.27	73.38	20.59		150.0	
10189-AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	2.85	69.84	18.51	3.01	150.0	± 9.6 %
		Y	3.39	72.31	19.27		150.0	
		Z	2.57	68.39	17.17		150.0	
10193-CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.22	66.74	16.16	0.00	150.0	± 9.6 %
		Y	4.41	67.05	16.50		150.0	
		Z	4.10	66.98	15.94		150.0	
10194-CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.36	66.95	16.30	0.00	150.0	± 9.6 %
		Y	4.56	67.31	16.63		150.0	
		Z	4.22	67.13	16.07		150.0	
10195-CAC	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.39	66.96	16.31	0.00	150.0	± 9.6 %
		Y	4.60	67.33	16.65		150.0	
		Z	4.24	67.10	16.06		150.0	
10196-CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.20	66.72	16.14	0.00	150.0	± 9.6 %
		Y	4.40	67.07	16.50		150.0	
		Z	4.08	66.92	15.90		150.0	
10197-CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.36	66.95	16.31	0.00	150.0	± 9.6 %
		Y	4.57	67.32	16.64		150.0	
		Z	4.22	67.12	16.07		150.0	
10198-CAC	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.38	66.95	16.31	0.00	150.0	± 9.6 %
		Y	4.60	67.33	16.65		150.0	
		Z	4.23	67.09	16.06		150.0	
10219-CAC	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.16	66.77	16.11	0.00	150.0	± 9.6 %
		Y	4.36	67.12	16.48		150.0	
		Z	4.04	67.00	15.89		150.0	
10220-CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.36	66.91	16.29	0.00	150.0	± 9.6 %
		Y	4.56	67.28	16.62		150.0	
		Z	4.21	67.08	16.06		150.0	
10221-CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.40	66.90	16.30	0.00	150.0	± 9.6 %
		Y	4.61	67.26	16.63		150.0	
		Z	4.25	67.06	16.06		150.0	
10222-CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	4.80	66.97	16.48	0.00	150.0	± 9.6 %
		Y	4.97	67.32	16.74		150.0	
		Z	4.65	66.99	16.22		150.0	

10223-CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.04	67.12	16.56	0.00	150.0	± 9.6 %
		Y	5.26	67.55	16.86		150.0	
		Z	4.85	67.05	16.24		150.0	
10224-CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.84	67.10	16.47	0.00	150.0	± 9.6 %
		Y	5.01	67.44	16.72		150.0	
		Z	4.69	67.14	16.22		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.48	66.09	14.60	0.00	150.0	± 9.6 %
		Y	2.74	67.15	15.74		150.0	
		Z	2.35	66.01	13.97		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	14.63	100.77	30.27	6.02	65.0	± 9.6 %
		Y	13.50	95.53	27.22		65.0	
		Z	6.14	86.10	24.79		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	14.28	98.83	28.99	6.02	65.0	± 9.6 %
		Y	12.07	92.18	25.50		65.0	
		Z	5.79	84.16	23.43		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	7.72	92.84	29.85	6.02	65.0	± 9.6 %
		Y	8.40	91.70	28.18		65.0	
		Z	3.85	80.05	24.56		65.0	
10229-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	13.19	98.68	29.54	6.02	65.0	± 9.6 %
		Y	12.39	93.91	26.64		65.0	
		Z	5.71	84.67	24.19		65.0	
10230-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	12.76	96.74	28.27	6.02	65.0	± 9.6 %
		Y	11.09	90.72	24.97		65.0	
		Z	5.35	82.75	22.86		65.0	
10231-CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	7.26	91.45	29.29	6.02	65.0	± 9.6 %
		Y	7.93	90.49	27.69		65.0	
		Z	3.69	79.12	24.10		65.0	
10232-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	13.17	98.65	29.53	6.02	65.0	± 9.6 %
		Y	12.38	93.90	26.63		65.0	
		Z	5.70	84.65	24.18		65.0	
10233-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	12.71	96.69	28.26	6.02	65.0	± 9.6 %
		Y	11.07	90.70	24.96		65.0	
		Z	5.33	82.71	22.85		65.0	
10234-CAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	6.94	90.39	28.79	6.02	65.0	± 9.6 %
		Y	7.56	89.42	27.20		65.0	
		Z	3.57	78.42	23.69		65.0	
10235-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	13.20	98.72	29.56	6.02	65.0	± 9.6 %
		Y	12.41	93.95	26.65		65.0	
		Z	5.70	84.66	24.19		65.0	
10236-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	12.89	96.88	28.31	6.02	65.0	± 9.6 %
		Y	11.19	90.84	25.00		65.0	
		Z	5.38	82.84	22.89		65.0	
10237-CAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	7.27	91.51	29.31	6.02	65.0	± 9.6 %
		Y	7.94	90.56	27.72		65.0	
		Z	3.68	79.11	24.10		65.0	
10238-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	13.14	98.63	29.53	6.02	65.0	± 9.6 %
		Y	12.35	93.88	26.62		65.0	
		Z	5.68	84.62	24.17		65.0	

10239-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	12.66	96.64	28.25	6.02	65.0	± 9.6 %
		Y	11.03	90.67	24.95		65.0	
		Z	5.31	82.67	22.84		65.0	
10240-CAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	7.25	91.49	29.30	6.02	65.0	± 9.6 %
		Y	7.92	90.52	27.70		65.0	
		Z	3.67	79.11	24.10		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	8.07	83.66	26.60	6.98	65.0	± 9.6 %
		Y	8.23	82.37	25.42		65.0	
		Z	6.15	79.65	24.57		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	7.13	81.10	25.49	6.98	65.0	± 9.6 %
		Y	7.19	79.66	24.27		65.0	
		Z	5.16	76.21	23.08		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.70	77.08	24.75	6.98	65.0	± 9.6 %
		Y	5.79	76.18	23.77		65.0	
		Z	4.35	72.84	22.46		65.0	
10244-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.90	69.73	14.28	3.98	65.0	± 9.6 %
		Y	4.14	69.75	14.43		65.0	
		Z	2.32	64.19	10.29		65.0	
10245-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.76	68.99	13.88	3.98	65.0	± 9.6 %
		Y	4.05	69.22	14.14		65.0	
		Z	2.29	63.87	10.07		65.0	
10246-CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	3.54	71.57	15.31	3.98	65.0	± 9.6 %
		Y	4.20	73.49	16.58		65.0	
		Z	2.19	66.68	12.21		65.0	
10247-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	3.93	70.34	15.60	3.98	65.0	± 9.6 %
		Y	4.37	71.41	16.50		65.0	
		Z	2.89	67.23	13.31		65.0	
10248-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	3.84	69.61	15.25	3.98	65.0	± 9.6 %
		Y	4.32	70.82	16.23		65.0	
		Z	2.83	66.58	12.98		65.0	
10249-CAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	6.16	80.46	20.36	3.98	65.0	± 9.6 %
		Y	6.18	79.81	20.33		65.0	
		Z	3.97	75.17	17.64		65.0	
10250-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	5.62	76.39	20.75	3.98	65.0	± 9.6 %
		Y	5.74	75.93	20.59		65.0	
		Z	4.58	74.22	19.36		65.0	
10251-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	5.03	73.18	18.92	3.98	65.0	± 9.6 %
		Y	5.31	73.34	19.08		65.0	
		Z	4.06	70.93	17.39		65.0	
10252-CAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	7.24	83.33	23.20	3.98	65.0	± 9.6 %
		Y	6.94	81.44	22.37		65.0	
		Z	5.41	79.92	21.58		65.0	
10253-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	5.26	72.84	19.45	3.98	65.0	± 9.6 %
		Y	5.49	72.84	19.41		65.0	
		Z	4.40	71.02	18.22		65.0	
10254-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.65	74.03	20.30	3.98	65.0	± 9.6 %
		Y	5.87	73.92	20.21		65.0	
		Z	4.76	72.26	19.12		65.0	

10255-CAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	6.29	78.80	21.96	3.98	65.0	± 9.6 %
		Y	6.30	77.79	21.37		65.0	
		Z	5.06	76.49	20.76		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.61	64.47	10.42	3.98	65.0	± 9.6 %
		Y	2.96	65.33	11.13		65.0	
		Z	1.66	61.09	7.28		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.56	63.97	10.05	3.98	65.0	± 9.6 %
		Y	2.92	64.89	10.82		65.0	
		Z	1.65	60.87	7.05		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.21	64.99	10.99	3.98	65.0	± 9.6 %
		Y	2.77	67.33	12.75		65.0	
		Z	1.46	61.94	8.37		65.0	
10259-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.60	72.78	17.56	3.98	65.0	± 9.6 %
		Y	4.92	73.23	18.04		65.0	
		Z	3.51	69.91	15.55		65.0	
10260-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.59	72.39	17.37	3.98	65.0	± 9.6 %
		Y	4.92	72.90	17.90		65.0	
		Z	3.52	69.59	15.38		65.0	
10261-CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	6.31	80.89	21.20	3.98	65.0	± 9.6 %
		Y	6.19	79.71	20.87		65.0	
		Z	4.43	76.66	19.01		65.0	
10262-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	5.59	76.27	20.67	3.98	65.0	± 9.6 %
		Y	5.72	75.84	20.52		65.0	
		Z	4.55	74.08	19.27		65.0	
10263-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	5.02	73.16	18.92	3.98	65.0	± 9.6 %
		Y	5.30	73.32	19.07		65.0	
		Z	4.06	70.92	17.39		65.0	
10264-CAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	7.12	83.00	23.05	3.98	65.0	± 9.6 %
		Y	6.85	81.18	22.25		65.0	
		Z	5.32	79.60	21.43		65.0	
10265-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.33	73.24	19.78	3.98	65.0	± 9.6 %
		Y	5.58	73.28	19.69		65.0	
		Z	4.46	71.34	18.58		65.0	
10266-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.79	74.63	20.77	3.98	65.0	± 9.6 %
		Y	6.01	74.49	20.59		65.0	
		Z	4.89	72.85	19.66		65.0	
10267-CAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	6.58	79.40	22.08	3.98	65.0	± 9.6 %
		Y	6.57	78.32	21.41		65.0	
		Z	5.30	77.16	20.98		65.0	
10268-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	5.96	73.22	20.37	3.98	65.0	± 9.6 %
		Y	6.21	73.29	20.22		65.0	
		Z	5.14	71.69	19.40		65.0	
10269-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	5.96	72.84	20.22	3.98	65.0	± 9.6 %
		Y	6.20	72.91	20.10		65.0	
		Z	5.18	71.41	19.28		65.0	
10270-CAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	6.23	76.00	20.96	3.98	65.0	± 9.6 %
		Y	6.35	75.47	20.49		65.0	
		Z	5.32	74.55	20.15		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.34	66.81	14.69	0.00	150.0	± 9.6 %
		Y	2.62	68.03	15.92		150.0	
		Z	2.21	66.68	14.08		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.44	68.53	15.18	0.00	150.0	± 9.6 %
		Y	1.86	72.07	17.62		150.0	
		Z	1.32	67.78	14.48		150.0	
10277-CAA	PHS (QPSK)	X	2.18	61.09	6.72	9.03	50.0	± 9.6 %
		Y	2.24	61.20	6.85		50.0	
		Z	1.56	59.15	4.54		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	3.31	65.77	11.35	9.03	50.0	± 9.6 %
		Y	3.43	66.36	11.86		50.0	
		Z	2.47	63.10	8.79		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	3.36	65.91	11.47	9.03	50.0	± 9.6 %
		Y	3.51	66.55	12.01		50.0	
		Z	2.51	63.19	8.90		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	0.55	60.70	6.89	0.00	150.0	± 9.6 %
		Y	1.57	71.17	13.79		150.0	
		Z	0.43	60.00	5.78		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.35	60.00	5.89	0.00	150.0	± 9.6 %
		Y	0.88	68.42	12.36		150.0	
		Z	0.31	60.00	5.29		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	0.34	60.13	6.21	0.00	150.0	± 9.6 %
		Y	32.57	110.87	25.46		150.0	
		Z	0.30	60.00	5.55		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	0.47	62.79	8.16	0.00	150.0	± 9.6 %
		Y	100.00	129.73	30.90		150.0	
		Z	0.34	60.84	6.50		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	21.80	94.03	24.61	9.03	50.0	± 9.6 %
		Y	10.29	83.42	21.60		50.0	
		Z	18.76	90.39	22.23		50.0	
10297-AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.48	69.89	16.70	0.00	150.0	± 9.6 %
		Y	2.90	71.99	18.00		150.0	
		Z	2.30	69.40	16.27		150.0	
10298-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	0.80	62.04	8.74	0.00	150.0	± 9.6 %
		Y	1.54	69.24	13.91		150.0	
		Z	0.63	60.57	7.13		150.0	
10299-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	1.28	62.79	8.90	0.00	150.0	± 9.6 %
		Y	1.89	66.17	11.32		150.0	
		Z	0.83	59.79	5.92		150.0	
10300-AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.04	60.46	6.87	0.00	150.0	± 9.6 %
		Y	1.40	62.36	8.64		150.0	
		Z	0.71	58.57	4.53		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.74	67.13	17.88	4.17	50.0	± 9.6 %
		Y	4.69	66.45	17.92		50.0	
		Z	4.19	65.82	16.84		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.21	67.89	18.77	4.96	50.0	± 9.6 %
		Y	5.09	66.62	18.38		50.0	
		Z	4.70	66.71	17.77		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.02	67.85	18.70	4.96	50.0	± 9.6 %
		Y	4.86	66.33	18.21		50.0	
		Z	4.51	66.60	17.64		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.62	66.40	17.42	4.17	50.0	± 9.6 %
		Y	4.67	66.23	17.75		50.0	
		Z	4.22	65.74	16.72		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	5.39	72.72	20.66	6.02	35.0	± 9.6 %
		Y	4.79	70.33	20.43		35.0	
		Z	4.15	68.57	18.14		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	5.13	69.90	19.93	6.02	35.0	± 9.6 %
		Y	4.84	68.23	19.72		35.0	
		Z	4.35	67.45	18.21		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	5.08	70.20	19.92	6.02	35.0	± 9.6 %
		Y	4.77	68.50	19.72		35.0	
		Z	4.25	67.50	18.09		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	5.12	70.64	20.16	6.02	35.0	± 9.6 %
		Y	4.77	68.84	19.93		35.0	
		Z	4.25	67.77	18.27		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	5.14	69.95	20.02	6.02	35.0	± 9.6 %
		Y	4.87	68.35	19.83		35.0	
		Z	4.35	67.48	18.29		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	5.13	70.13	19.99	6.02	35.0	± 9.6 %
		Y	4.81	68.40	19.75		35.0	
		Z	4.32	67.59	18.24		35.0	
10311-AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.83	68.90	16.32	0.00	150.0	± 9.6 %
		Y	3.26	70.86	17.46		150.0	
		Z	2.65	68.52	15.97		150.0	
10313-AAA	iDEN 1:3	X	3.36	72.20	15.56	6.99	70.0	± 9.6 %
		Y	3.23	71.05	14.93		70.0	
		Z	2.47	70.33	14.60		70.0	
10314-AAA	iDEN 1:6	X	7.46	85.19	22.96	10.00	30.0	± 9.6 %
		Y	5.21	79.23	20.77		30.0	
		Z	8.81	89.37	24.10		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	0.97	64.18	15.35	0.17	150.0	± 9.6 %
		Y	1.09	65.56	16.62		150.0	
		Z	0.95	63.77	14.73		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.27	66.73	16.30	0.17	150.0	± 9.6 %
		Y	4.44	66.97	16.55		150.0	
		Z	4.11	66.81	16.00		150.0	
10317-AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.27	66.73	16.30	0.17	150.0	± 9.6 %
		Y	4.44	66.97	16.55		150.0	
		Z	4.11	66.81	16.00		150.0	
10400-AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.31	66.93	16.26	0.00	150.0	± 9.6 %
		Y	4.53	67.33	16.61		150.0	
		Z	4.13	66.97	15.96		150.0	
10401-AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	4.97	66.63	16.27	0.00	150.0	± 9.6 %
		Y	5.22	67.18	16.63		150.0	
		Z	4.86	66.85	16.09		150.0	

10402-AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.35	67.25	16.49	0.00	150.0	± 9.6 %
		Y	5.52	67.59	16.72		150.0	
		Z	5.21	67.33	16.26		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	0.55	60.70	6.89	0.00	115.0	± 9.6 %
		Y	1.57	71.17	13.79		115.0	
		Z	0.43	60.00	5.78		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	0.55	60.70	6.89	0.00	115.0	± 9.6 %
		Y	1.57	71.17	13.79		115.0	
		Z	0.43	60.00	5.78		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	121.47	29.36	0.00	100.0	± 9.6 %
		Y	100.00	116.93	27.68		100.0	
		Z	100.00	111.07	24.20		100.0	
10410-AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	X	100.00	127.60	32.19	3.23	80.0	± 9.6 %
		Y	47.53	108.69	25.78		80.0	
		Z	7.51	90.42	21.34		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	0.89	63.20	14.69	0.00	150.0	± 9.6 %
		Y	1.01	64.66	16.11		150.0	
		Z	0.90	63.14	14.25		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.21	66.70	16.23	0.00	150.0	± 9.6 %
		Y	4.41	67.06	16.58		150.0	
		Z	4.08	66.88	15.99		150.0	
10417-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.21	66.70	16.23	0.00	150.0	± 9.6 %
		Y	4.41	67.06	16.58		150.0	
		Z	4.08	66.88	15.99		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.21	66.94	16.30	0.00	150.0	± 9.6 %
		Y	4.41	67.28	16.64		150.0	
		Z	4.08	67.11	16.07		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.23	66.86	16.28	0.00	150.0	± 9.6 %
		Y	4.43	67.20	16.62		150.0	
		Z	4.09	67.03	16.04		150.0	
10422-AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.33	66.82	16.29	0.00	150.0	± 9.6 %
		Y	4.53	67.16	16.62		150.0	
		Z	4.19	66.99	16.05		150.0	
10423-AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.45	67.07	16.37	0.00	150.0	± 9.6 %
		Y	4.67	67.43	16.71		150.0	
		Z	4.29	67.21	16.12		150.0	
10424-AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.38	67.01	16.35	0.00	150.0	± 9.6 %
		Y	4.60	67.39	16.69		150.0	
		Z	4.22	67.14	16.10		150.0	
10425-AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.04	67.22	16.60	0.00	150.0	± 9.6 %
		Y	5.22	67.55	16.84		150.0	
		Z	4.84	67.12	16.26		150.0	
10426-AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.08	67.41	16.68	0.00	150.0	± 9.6 %
		Y	5.25	67.68	16.90		150.0	
		Z	4.88	67.29	16.34		150.0	

10427-AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.02	67.08	16.52	0.00	150.0	± 9.6 %
		Y	5.21	67.45	16.78		150.0	
		Z	4.85	67.10	16.25		150.0	
10430-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.34	73.60	18.73	0.00	150.0	± 9.6 %
		Y	4.67	74.31	19.65		150.0	
		Z	4.56	75.21	18.83		150.0	
10431-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	3.81	67.34	16.02	0.00	150.0	± 9.6 %
		Y	4.07	67.85	16.58		150.0	
		Z	3.64	67.45	15.66		150.0	
10432-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.14	67.15	16.26	0.00	150.0	± 9.6 %
		Y	4.37	67.55	16.66		150.0	
		Z	3.98	67.29	15.98		150.0	
10433-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.40	67.05	16.37	0.00	150.0	± 9.6 %
		Y	4.61	67.43	16.71		150.0	
		Z	4.25	67.19	16.13		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.41	74.13	18.22	0.00	150.0	± 9.6 %
		Y	5.02	75.91	19.74		150.0	
		Z	4.48	75.04	17.90		150.0	
10435-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	127.28	32.04	3.23	80.0	± 9.6 %
		Y	37.77	105.68	25.00		80.0	
		Z	6.65	88.77	20.79		80.0	
10447-AAC	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	2.99	66.80	14.43	0.00	150.0	± 9.6 %
		Y	3.36	68.04	15.68		150.0	
		Z	2.75	66.44	13.65		150.0	
10448-AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.68	67.14	15.90	0.00	150.0	± 9.6 %
		Y	3.93	67.65	16.46		150.0	
		Z	3.53	67.26	15.55		150.0	
10449-AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	3.99	66.98	16.16	0.00	150.0	± 9.6 %
		Y	4.20	67.40	16.58		150.0	
		Z	3.85	67.13	15.89		150.0	
10450-AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.21	66.83	16.23	0.00	150.0	± 9.6 %
		Y	4.41	67.22	16.58		150.0	
		Z	4.07	66.98	15.98		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	2.72	66.13	13.34	0.00	150.0	± 9.6 %
		Y	3.20	67.97	15.02		150.0	
		Z	2.40	65.33	12.26		150.0	
10456-AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.02	67.79	16.78	0.00	150.0	± 9.6 %
		Y	6.18	68.16	17.02		150.0	
		Z	6.18	68.79	17.02		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.59	65.49	15.98	0.00	150.0	± 9.6 %
		Y	3.73	65.74	16.31		150.0	
		Z	3.53	65.80	15.77		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.34	70.08	15.60	0.00	150.0	± 9.6 %
		Y	4.35	74.00	18.36		150.0	
		Z	2.73	67.81	13.63		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.80	69.70	17.95	0.00	150.0	± 9.6 %
		Y	5.15	70.28	18.81		150.0	
		Z	4.66	69.99	17.32		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	0.87	70.93	16.52	0.00	150.0	± 9.6 %
		Y	1.46	79.26	21.40		150.0	
		Z	0.76	68.76	15.32		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	133.64	34.98	3.29	80.0	± 9.6 %
		Y	100.00	121.27	29.54		80.0	
		Z	11.51	98.13	24.42		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.56	66.37	11.18	3.23	80.0	± 9.6 %
		Y	0.87	60.00	7.45		80.0	
		Z	0.67	60.00	6.91		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.80	60.00	7.65	3.23	80.0	± 9.6 %
		Y	0.89	60.00	6.91		80.0	
		Z	0.69	60.00	6.22		80.0	
10464-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	130.01	33.13	3.23	80.0	± 9.6 %
		Y	30.66	103.77	24.63		80.0	
		Z	3.86	82.95	19.21		80.0	
10465-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.24	64.19	10.21	3.23	80.0	± 9.6 %
		Y	0.87	60.00	7.39		80.0	
		Z	0.67	60.00	6.85		80.0	
10466-AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.80	60.00	7.60	3.23	80.0	± 9.6 %
		Y	0.90	60.00	6.88		80.0	
		Z	0.69	60.00	6.19		80.0	
10467-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	130.52	33.35	3.23	80.0	± 9.6 %
		Y	47.97	109.22	25.94		80.0	
		Z	4.78	85.69	20.10		80.0	
10468-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.33	64.86	10.52	3.23	80.0	± 9.6 %
		Y	0.87	60.00	7.41		80.0	
		Z	0.67	60.00	6.88		80.0	
10469-AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.80	60.00	7.61	3.23	80.0	± 9.6 %
		Y	0.89	60.00	6.87		80.0	
		Z	0.69	60.00	6.19		80.0	
10470-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	130.55	33.36	3.23	80.0	± 9.6 %
		Y	49.35	109.54	26.00		80.0	
		Z	4.82	85.81	20.13		80.0	
10471-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.31	64.74	10.46	3.23	80.0	± 9.6 %
		Y	0.87	60.00	7.39		80.0	
		Z	0.66	60.00	6.86		80.0	
10472-AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.80	60.00	7.59	3.23	80.0	± 9.6 %
		Y	0.89	60.00	6.86		80.0	
		Z	0.69	60.00	6.17		80.0	
10473-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	130.51	33.34	3.23	80.0	± 9.6 %
		Y	48.03	109.20	25.91		80.0	
		Z	4.74	85.60	20.06		80.0	
10474-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.30	64.69	10.43	3.23	80.0	± 9.6 %
		Y	0.87	60.00	7.39		80.0	
		Z	0.66	60.00	6.86		80.0	
10475-AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.80	60.00	7.59	3.23	80.0	± 9.6 %
		Y	0.89	60.00	6.86		80.0	
		Z	0.69	60.00	6.17		80.0	

10477-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.23	64.18	10.18	3.23	80.0	± 9.6 %
		Y	0.87	60.00	7.37		80.0	
		Z	0.66	60.00	6.83		80.0	
10478-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.80	60.00	7.58	3.23	80.0	± 9.6 %
		Y	0.89	60.00	6.85		80.0	
		Z	0.69	60.00	6.16		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	126.80	33.24	3.23	80.0	± 9.6 %
		Y	16.83	96.78	24.93		80.0	
		Z	17.83	99.90	25.23		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	100.00	110.98	25.88	3.23	80.0	± 9.6 %
		Y	4.24	73.22	15.24		80.0	
		Z	1.74	65.87	11.40		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	16.05	88.37	19.67	3.23	80.0	± 9.6 %
		Y	2.80	68.08	12.86		80.0	
		Z	1.19	61.90	9.13		80.0	
10482-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.57	64.75	11.63	2.23	80.0	± 9.6 %
		Y	2.36	69.10	14.35		80.0	
		Z	0.89	60.11	8.42		80.0	
10483-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.03	64.54	11.14	2.23	80.0	± 9.6 %
		Y	2.19	64.68	11.58		80.0	
		Z	1.14	60.00	7.47		80.0	
10484-AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.90	63.58	10.68	2.23	80.0	± 9.6 %
		Y	2.12	64.08	11.29		80.0	
		Z	1.17	60.00	7.46		80.0	
10485-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.45	74.98	17.66	2.23	80.0	± 9.6 %
		Y	3.58	75.04	18.20		80.0	
		Z	1.95	68.57	14.43		80.0	
10486-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.25	65.84	12.95	2.23	80.0	± 9.6 %
		Y	2.80	68.12	14.63		80.0	
		Z	1.49	62.13	10.33		80.0	
10487-AAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.22	65.29	12.67	2.23	80.0	± 9.6 %
		Y	2.76	67.57	14.36		80.0	
		Z	1.49	61.80	10.12		80.0	
10488-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.71	75.02	19.43	2.23	80.0	± 9.6 %
		Y	3.72	74.14	19.13		80.0	
		Z	2.67	71.23	17.54		80.0	
10489-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.33	70.04	17.15	2.23	80.0	± 9.6 %
		Y	3.44	69.76	17.22		80.0	
		Z	2.72	68.09	15.79		80.0	
10490-AAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.38	69.72	17.01	2.23	80.0	± 9.6 %
		Y	3.50	69.51	17.12		80.0	
		Z	2.77	67.83	15.66		80.0	
10491-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.67	72.22	18.70	2.23	80.0	± 9.6 %
		Y	3.79	71.87	18.50		80.0	
		Z	2.91	69.73	17.36		80.0	
10492-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.59	68.89	17.30	2.23	80.0	± 9.6 %
		Y	3.72	68.74	17.28		80.0	
		Z	3.08	67.54	16.30		80.0	

10493-AAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.63	68.68	17.20	2.23	80.0	± 9.6 %
		Y	3.77	68.57	17.21		80.0	
		Z	3.12	67.39	16.21		80.0	
10494-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.02	73.80	19.26	2.23	80.0	± 9.6 %
		Y	4.14	73.43	19.01		80.0	
		Z	3.12	70.94	17.86		80.0	
10495-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.62	69.18	17.57	2.23	80.0	± 9.6 %
		Y	3.76	69.07	17.51		80.0	
		Z	3.11	67.77	16.60		80.0	
10496-AAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.69	68.89	17.47	2.23	80.0	± 9.6 %
		Y	3.82	68.78	17.42		80.0	
		Z	3.19	67.60	16.55		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	0.98	60.00	7.66	2.23	80.0	± 9.6 %
		Y	1.21	61.40	9.41		80.0	
		Z	0.85	60.00	6.48		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.17	60.00	6.48	2.23	80.0	± 9.6 %
		Y	1.25	60.00	7.54		80.0	
		Z	1.13	60.00	5.14		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.19	60.00	6.32	2.23	80.0	± 9.6 %
		Y	1.26	60.00	7.39		80.0	
		Z	1.19	60.00	4.94		80.0	
10500-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.61	75.28	18.49	2.23	80.0	± 9.6 %
		Y	3.60	74.56	18.55		80.0	
		Z	2.31	70.18	15.90		80.0	
10501-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.83	68.30	14.92	2.23	80.0	± 9.6 %
		Y	3.15	69.25	15.83		80.0	
		Z	2.02	65.03	12.70		80.0	
10502-AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.81	67.87	14.64	2.23	80.0	± 9.6 %
		Y	3.17	68.94	15.62		80.0	
		Z	2.02	64.68	12.43		80.0	
10503-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.64	74.69	19.28	2.23	80.0	± 9.6 %
		Y	3.66	73.87	19.00		80.0	
		Z	2.62	70.94	17.40		80.0	
10504-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.30	69.88	17.06	2.23	80.0	± 9.6 %
		Y	3.41	69.63	17.15		80.0	
		Z	2.69	67.93	15.70		80.0	
10505-AAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.35	69.57	16.93	2.23	80.0	± 9.6 %
		Y	3.48	69.39	17.05		80.0	
		Z	2.74	67.69	15.57		80.0	
10506-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.97	73.59	19.16	2.23	80.0	± 9.6 %
		Y	4.10	73.25	18.92		80.0	
		Z	3.08	70.76	17.76		80.0	
10507-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.61	69.10	17.52	2.23	80.0	± 9.6 %
		Y	3.74	68.99	17.47		80.0	
		Z	3.10	67.69	16.55		80.0	

10508-AAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.67	68.79	17.42	2.23	80.0	± 9.6 %
		Y	3.81	68.69	17.37		80.0	
		Z	3.18	67.50	16.48		80.0	
10509-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.19	71.63	18.46	2.23	80.0	± 9.6 %
		Y	4.34	71.54	18.29		80.0	
		Z	3.49	69.77	17.46		80.0	
10510-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.02	68.41	17.47	2.23	80.0	± 9.6 %
		Y	4.18	68.47	17.43		80.0	
		Z	3.54	67.28	16.67		80.0	
10511-AAD	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.08	68.19	17.41	2.23	80.0	± 9.6 %
		Y	4.24	68.23	17.36		80.0	
		Z	3.62	67.16	16.64		80.0	
10512-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.39	73.11	18.91	2.23	80.0	± 9.6 %
		Y	4.57	73.09	18.76		80.0	
		Z	3.55	70.80	17.76		80.0	
10513-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.92	68.58	17.57	2.23	80.0	± 9.6 %
		Y	4.08	68.69	17.52		80.0	
		Z	3.44	67.34	16.73		80.0	
10514-AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.95	68.18	17.44	2.23	80.0	± 9.6 %
		Y	4.10	68.28	17.40		80.0	
		Z	3.50	67.06	16.65		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.85	63.44	14.76	0.00	150.0	± 9.6 %
		Y	0.97	65.05	16.30		150.0	
		Z	0.86	63.31	14.29		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.00	82.07	20.52	0.00	150.0	± 9.6 %
		Y	6.58	117.44	34.05		150.0	
		Z	0.52	71.82	16.88		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.71	65.99	15.57	0.00	150.0	± 9.6 %
		Y	0.90	69.36	18.20		150.0	
		Z	0.69	65.04	14.76		150.0	
10518-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.21	66.82	16.23	0.00	150.0	± 9.6 %
		Y	4.40	67.17	16.57		150.0	
		Z	4.07	67.02	15.99		150.0	
10519-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.34	66.98	16.31	0.00	150.0	± 9.6 %
		Y	4.56	67.34	16.66		150.0	
		Z	4.19	67.14	16.06		150.0	
10520-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.20	66.91	16.23	0.00	150.0	± 9.6 %
		Y	4.42	67.30	16.59		150.0	
		Z	4.06	67.06	15.98		150.0	
10521-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.13	66.86	16.20	0.00	150.0	± 9.6 %
		Y	4.35	67.28	16.58		150.0	
		Z	3.99	66.98	15.94		150.0	
10522-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.17	66.96	16.28	0.00	150.0	± 9.6 %
		Y	4.41	67.42	16.68		150.0	
		Z	4.01	67.01	15.97		150.0	

10523-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.12	67.05	16.25	0.00	150.0	± 9.6 %
		Y	4.33	67.40	16.59		150.0	
		Z	3.99	67.23	16.03		150.0	
10524-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.13	66.97	16.30	0.00	150.0	± 9.6 %
		Y	4.35	67.37	16.67		150.0	
		Z	3.98	67.09	16.04		150.0	
10525-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.18	66.09	15.94	0.00	150.0	± 9.6 %
		Y	4.39	66.46	16.28		150.0	
		Z	4.05	66.29	15.72		150.0	
10526-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.29	66.34	16.05	0.00	150.0	± 9.6 %
		Y	4.52	66.77	16.40		150.0	
		Z	4.14	66.48	15.80		150.0	
10527-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.23	66.32	15.98	0.00	150.0	± 9.6 %
		Y	4.45	66.75	16.35		150.0	
		Z	4.08	66.48	15.75		150.0	
10528-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.24	66.33	16.02	0.00	150.0	± 9.6 %
		Y	4.46	66.76	16.38		150.0	
		Z	4.09	66.47	15.77		150.0	
10529-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.24	66.33	16.02	0.00	150.0	± 9.6 %
		Y	4.46	66.76	16.38		150.0	
		Z	4.09	66.47	15.77		150.0	
10531-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.20	66.33	15.98	0.00	150.0	± 9.6 %
		Y	4.44	66.81	16.38		150.0	
		Z	4.04	66.44	15.72		150.0	
10532-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.09	66.19	15.91	0.00	150.0	± 9.6 %
		Y	4.31	66.68	16.32		150.0	
		Z	3.95	66.32	15.67		150.0	
10533-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.25	66.42	16.02	0.00	150.0	± 9.6 %
		Y	4.47	66.85	16.39		150.0	
		Z	4.09	66.58	15.79		150.0	
10534-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	4.82	66.28	16.10	0.00	150.0	± 9.6 %
		Y	5.01	66.66	16.38		150.0	
		Z	4.67	66.35	15.86		150.0	
10535-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	4.86	66.40	16.17	0.00	150.0	± 9.6 %
		Y	5.07	66.83	16.46		150.0	
		Z	4.69	66.42	15.91		150.0	
10536-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	4.75	66.37	16.13	0.00	150.0	± 9.6 %
		Y	4.96	66.84	16.44		150.0	
		Z	4.60	66.44	15.89		150.0	
10537-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.84	66.47	16.18	0.00	150.0	± 9.6 %
		Y	5.01	66.80	16.43		150.0	
		Z	4.68	66.51	15.93		150.0	
10538-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	4.88	66.35	16.16	0.00	150.0	± 9.6 %
		Y	5.08	66.76	16.45		150.0	
		Z	4.71	66.38	15.90		150.0	
10540-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	4.81	66.30	16.16	0.00	150.0	± 9.6 %
		Y	5.01	66.72	16.45		150.0	
		Z	4.65	66.34	15.90		150.0	

10541-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	4.80	66.22	16.09	0.00	150.0	± 9.6 %
		Y	4.99	66.61	16.37		150.0	
		Z	4.65	66.32	15.87		150.0	
10542-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	4.95	66.33	16.17	0.00	150.0	± 9.6 %
		Y	5.14	66.71	16.44		150.0	
		Z	4.79	66.39	15.92		150.0	
10543-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.05	66.50	16.28	0.00	150.0	± 9.6 %
		Y	5.22	66.78	16.50		150.0	
		Z	4.85	66.47	15.99		150.0	
10544-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.18	66.28	16.07	0.00	150.0	± 9.6 %
		Y	5.35	66.69	16.34		150.0	
		Z	5.04	66.36	15.85		150.0	
10545-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.38	66.85	16.32	0.00	150.0	± 9.6 %
		Y	5.55	67.20	16.55		150.0	
		Z	5.18	66.73	16.00		150.0	
10546-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.21	66.40	16.10	0.00	150.0	± 9.6 %
		Y	5.39	66.83	16.38		150.0	
		Z	5.06	66.45	15.86		150.0	
10547-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.34	66.70	16.25	0.00	150.0	± 9.6 %
		Y	5.47	66.95	16.43		150.0	
		Z	5.17	66.69	15.98		150.0	
10548-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.46	67.25	16.50	0.00	150.0	± 9.6 %
		Y	5.68	67.76	16.81		150.0	
		Z	5.19	66.93	16.08		150.0	
10550-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.33	66.84	16.34	0.00	150.0	± 9.6 %
		Y	5.46	67.06	16.50		150.0	
		Z	5.15	66.78	16.05		150.0	
10551-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.19	66.33	16.04	0.00	150.0	± 9.6 %
		Y	5.39	66.81	16.34		150.0	
		Z	5.04	66.38	15.81		150.0	
10552-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.18	66.41	16.08	0.00	150.0	± 9.6 %
		Y	5.36	66.79	16.33		150.0	
		Z	5.05	66.52	15.87		150.0	
10553-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.23	66.33	16.07	0.00	150.0	± 9.6 %
		Y	5.41	66.74	16.34		150.0	
		Z	5.09	66.42	15.85		150.0	
10554-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.62	66.62	16.16	0.00	150.0	± 9.6 %
		Y	5.77	67.01	16.40		150.0	
		Z	5.48	66.65	15.91		150.0	
10555-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.71	66.86	16.26	0.00	150.0	± 9.6 %
		Y	5.88	67.28	16.52		150.0	
		Z	5.54	66.80	15.97		150.0	
10556-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	5.78	67.06	16.35	0.00	150.0	± 9.6 %
		Y	5.92	67.39	16.56		150.0	
		Z	5.59	66.96	16.04		150.0	
10557-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.70	66.81	16.25	0.00	150.0	± 9.6 %
		Y	5.87	67.22	16.50		150.0	
		Z	5.54	66.82	15.99		150.0	

10558-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.68	66.79	16.25	0.00	150.0	± 9.6 %
		Y	5.89	67.32	16.56		150.0	
		Z	5.51	66.77	15.98		150.0	
10560-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.71	66.77	16.28	0.00	150.0	± 9.6 %
		Y	5.89	67.21	16.54		150.0	
		Z	5.55	66.76	16.02		150.0	
10561-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	5.66	66.78	16.32	0.00	150.0	± 9.6 %
		Y	5.83	67.22	16.58		150.0	
		Z	5.49	66.74	16.03		150.0	
10562-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	5.69	66.89	16.37	0.00	150.0	± 9.6 %
		Y	5.89	67.40	16.67		150.0	
		Z	5.52	66.86	16.09		150.0	
10563-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.83	67.00	16.39	0.00	150.0	± 9.6 %
		Y	5.99	67.36	16.62		150.0	
		Z	5.66	66.99	16.13		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	4.52	66.80	16.34	0.46	150.0	± 9.6 %
		Y	4.71	67.11	16.64		150.0	
		Z	4.37	66.94	16.08		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	4.71	67.24	16.68	0.46	150.0	± 9.6 %
		Y	4.92	67.55	16.97		150.0	
		Z	4.55	67.39	16.44		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	4.55	67.03	16.47	0.46	150.0	± 9.6 %
		Y	4.75	67.36	16.77		150.0	
		Z	4.39	67.14	16.20		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	4.59	67.50	16.90	0.46	150.0	± 9.6 %
		Y	4.80	67.84	17.20		150.0	
		Z	4.45	67.67	16.67		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	4.43	66.68	16.15	0.46	150.0	± 9.6 %
		Y	4.65	67.08	16.49		150.0	
		Z	4.24	66.65	15.80		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	4.60	67.82	17.09	0.46	150.0	± 9.6 %
		Y	4.78	68.07	17.33		150.0	
		Z	4.46	68.04	16.90		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	4.58	67.53	16.94	0.46	150.0	± 9.6 %
		Y	4.79	67.84	17.22		150.0	
		Z	4.42	67.66	16.69		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.05	64.80	15.67	0.46	130.0	± 9.6 %
		Y	1.17	65.98	16.71		130.0	
		Z	1.00	63.98	14.85		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.07	65.55	16.13	0.46	130.0	± 9.6 %
		Y	1.19	66.83	17.22		130.0	
		Z	1.01	64.59	15.26		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	45.90	133.30	34.49	0.46	130.0	± 9.6 %
		Y	100.00	153.39	40.97		130.0	
		Z	1.58	84.66	22.16		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.35	74.48	20.46	0.46	130.0	± 9.6 %
		Y	1.66	77.75	22.43		130.0	
		Z	1.11	71.01	18.64		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.32	66.63	16.40	0.46	130.0	± 9.6 %
		Y	4.48	66.85	16.63		130.0	
		Z	4.16	66.71	16.08		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.35	66.88	16.51	0.46	130.0	± 9.6 %
		Y	4.52	67.08	16.73		130.0	
		Z	4.19	66.99	16.21		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	4.50	67.10	16.65	0.46	130.0	± 9.6 %
		Y	4.69	67.32	16.88		130.0	
		Z	4.33	67.20	16.35		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	4.42	67.29	16.79	0.46	130.0	± 9.6 %
		Y	4.60	67.52	17.02		130.0	
		Z	4.26	67.40	16.51		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.15	66.32	15.93	0.46	130.0	± 9.6 %
		Y	4.34	66.61	16.20		130.0	
		Z	3.97	66.27	15.55		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.18	66.36	15.93	0.46	130.0	± 9.6 %
		Y	4.38	66.67	16.22		130.0	
		Z	3.97	66.21	15.49		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.34	67.41	16.79	0.46	130.0	± 9.6 %
		Y	4.51	67.61	16.99		130.0	
		Z	4.18	67.53	16.51		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.07	66.06	15.68	0.46	130.0	± 9.6 %
		Y	4.26	66.35	15.96		130.0	
		Z	3.88	65.96	15.27		130.0	
10583-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.32	66.63	16.40	0.46	130.0	± 9.6 %
		Y	4.48	66.85	16.63		130.0	
		Z	4.16	66.71	16.08		130.0	
10584-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.35	66.88	16.51	0.46	130.0	± 9.6 %
		Y	4.52	67.08	16.73		130.0	
		Z	4.19	66.99	16.21		130.0	
10585-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.50	67.10	16.65	0.46	130.0	± 9.6 %
		Y	4.69	67.32	16.88		130.0	
		Z	4.33	67.20	16.35		130.0	
10586-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.42	67.29	16.79	0.46	130.0	± 9.6 %
		Y	4.60	67.52	17.02		130.0	
		Z	4.26	67.40	16.51		130.0	
10587-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.15	66.32	15.93	0.46	130.0	± 9.6 %
		Y	4.34	66.61	16.20		130.0	
		Z	3.97	66.27	15.55		130.0	
10588-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.18	66.36	15.93	0.46	130.0	± 9.6 %
		Y	4.38	66.67	16.22		130.0	
		Z	3.97	66.21	15.49		130.0	
10589-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.34	67.41	16.79	0.46	130.0	± 9.6 %
		Y	4.51	67.61	16.99		130.0	
		Z	4.18	67.53	16.51		130.0	
10590-AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.07	66.06	15.68	0.46	130.0	± 9.6 %
		Y	4.26	66.35	15.96		130.0	
		Z	3.88	65.96	15.27		130.0	

10591-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.48	66.74	16.55	0.46	130.0	± 9.6 %
		Y	4.64	66.92	16.75		130.0	
		Z	4.33	66.86	16.26		130.0	
10592-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.58	67.02	16.67	0.46	130.0	± 9.6 %
		Y	4.77	67.23	16.87		130.0	
		Z	4.41	67.10	16.37		130.0	
10593-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	4.50	66.88	16.51	0.46	130.0	± 9.6 %
		Y	4.68	67.11	16.73		130.0	
		Z	4.33	66.96	16.20		130.0	
10594-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.56	67.08	16.70	0.46	130.0	± 9.6 %
		Y	4.74	67.30	16.91		130.0	
		Z	4.39	67.16	16.40		130.0	
10595-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.53	67.07	16.60	0.46	130.0	± 9.6 %
		Y	4.71	67.27	16.81		130.0	
		Z	4.35	67.13	16.30		130.0	
10596-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	4.45	67.00	16.58	0.46	130.0	± 9.6 %
		Y	4.64	67.24	16.80		130.0	
		Z	4.27	67.01	16.25		130.0	
10597-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	4.40	66.85	16.41	0.46	130.0	± 9.6 %
		Y	4.59	67.11	16.65		130.0	
		Z	4.23	66.87	16.08		130.0	
10598-AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	4.41	67.15	16.73	0.46	130.0	± 9.6 %
		Y	4.59	67.39	16.96		130.0	
		Z	4.26	67.25	16.45		130.0	
10599-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.20	67.26	16.87	0.46	130.0	± 9.6 %
		Y	5.33	67.39	16.98		130.0	
		Z	5.07	67.39	16.64		130.0	
10600-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.34	67.77	17.10	0.46	130.0	± 9.6 %
		Y	5.47	67.86	17.18		130.0	
		Z	5.05	67.37	16.59		130.0	
10601-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.22	67.48	16.98	0.46	130.0	± 9.6 %
		Y	5.34	67.55	17.05		130.0	
		Z	5.03	67.40	16.63		130.0	
10602-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.31	67.47	16.88	0.46	130.0	± 9.6 %
		Y	5.47	67.70	17.03		130.0	
		Z	5.04	67.16	16.42		130.0	
10603-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.34	67.68	17.13	0.46	130.0	± 9.6 %
		Y	5.55	68.04	17.35		130.0	
		Z	5.07	67.36	16.68		130.0	
10604-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.19	67.13	16.83	0.46	130.0	± 9.6 %
		Y	5.43	67.67	17.14		130.0	
		Z	4.98	67.00	16.46		130.0	
10605-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.28	67.45	16.99	0.46	130.0	± 9.6 %
		Y	5.44	67.68	17.14		130.0	
		Z	5.02	67.15	16.54		130.0	
10606-AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.09	66.96	16.59	0.46	130.0	± 9.6 %
		Y	5.20	67.02	16.66		130.0	
		Z	4.89	66.84	16.22		130.0	

10607-AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.33	66.11	16.21	0.46	130.0	± 9.6 %
		Y	4.50	66.32	16.42		130.0	
		Z	4.18	66.24	15.93		130.0	
10608-AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.46	66.41	16.34	0.46	130.0	± 9.6 %
		Y	4.65	66.67	16.57		130.0	
		Z	4.28	66.49	16.05		130.0	
10609-AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.35	66.23	16.15	0.46	130.0	± 9.6 %
		Y	4.54	66.50	16.39		130.0	
		Z	4.18	66.29	15.84		130.0	
10610-AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.41	66.44	16.34	0.46	130.0	± 9.6 %
		Y	4.59	66.68	16.57		130.0	
		Z	4.24	66.51	16.05		130.0	
10611-AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.32	66.20	16.17	0.46	130.0	± 9.6 %
		Y	4.51	66.47	16.40		130.0	
		Z	4.14	66.25	15.86		130.0	
10612-AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.30	66.31	16.19	0.46	130.0	± 9.6 %
		Y	4.50	66.61	16.44		130.0	
		Z	4.10	66.27	15.84		130.0	
10613-AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.29	66.09	16.01	0.46	130.0	± 9.6 %
		Y	4.49	66.41	16.28		130.0	
		Z	4.10	66.08	15.67		130.0	
10614-AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.28	66.40	16.32	0.46	130.0	± 9.6 %
		Y	4.47	66.69	16.57		130.0	
		Z	4.11	66.46	16.02		130.0	
10615-AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.30	66.00	15.89	0.46	130.0	± 9.6 %
		Y	4.49	66.26	16.14		130.0	
		Z	4.11	66.01	15.56		130.0	
10616-AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	4.98	66.35	16.40	0.46	130.0	± 9.6 %
		Y	5.14	66.59	16.56		130.0	
		Z	4.81	66.34	16.11		130.0	
10617-AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.02	66.47	16.44	0.46	130.0	± 9.6 %
		Y	5.20	66.77	16.63		130.0	
		Z	4.82	66.38	16.11		130.0	
10618-AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	4.92	66.49	16.47	0.46	130.0	± 9.6 %
		Y	5.11	66.84	16.68		130.0	
		Z	4.75	66.49	16.18		130.0	
10619-AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	4.99	66.47	16.38	0.46	130.0	± 9.6 %
		Y	5.12	66.62	16.50		130.0	
		Z	4.78	66.37	16.04		130.0	
10620-AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.02	66.35	16.37	0.46	130.0	± 9.6 %
		Y	5.19	66.61	16.54		130.0	
		Z	4.81	66.23	16.02		130.0	
10621-AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.02	66.45	16.56	0.46	130.0	± 9.6 %
		Y	5.19	66.74	16.74		130.0	
		Z	4.86	66.48	16.29		130.0	
10622-AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.02	66.56	16.61	0.46	130.0	± 9.6 %
		Y	5.19	66.85	16.79		130.0	
		Z	4.84	66.54	16.31		130.0	

10623-AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	4.91	66.09	16.22	0.46	130.0	± 9.6 %
		Y	5.06	66.33	16.38		130.0	
		Z	4.74	66.10	15.92		130.0	
10624-AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.10	66.37	16.43	0.46	130.0	± 9.6 %
		Y	5.27	66.61	16.59		130.0	
		Z	4.91	66.33	16.12		130.0	
10625-AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.22	66.63	16.63	0.46	130.0	± 9.6 %
		Y	5.38	66.84	16.77		130.0	
		Z	5.00	66.51	16.28		130.0	
10626-AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.32	66.29	16.33	0.46	130.0	± 9.6 %
		Y	5.46	66.57	16.48		130.0	
		Z	5.17	66.30	16.05		130.0	
10627-AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.60	67.10	16.71	0.46	130.0	± 9.6 %
		Y	5.73	67.29	16.81		130.0	
		Z	5.36	66.86	16.31		130.0	
10628-AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.31	66.25	16.20	0.46	130.0	± 9.6 %
		Y	5.46	66.55	16.37		130.0	
		Z	5.14	66.21	15.90		130.0	
10629-AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.49	66.72	16.44	0.46	130.0	± 9.6 %
		Y	5.57	66.76	16.47		130.0	
		Z	5.29	66.59	16.09		130.0	
10630-AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	5.68	67.51	16.83	0.46	130.0	± 9.6 %
		Y	5.90	67.96	17.07		130.0	
		Z	5.34	66.93	16.27		130.0	
10631-AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	5.63	67.48	17.02	0.46	130.0	± 9.6 %
		Y	5.82	67.86	17.23		130.0	
		Z	5.40	67.29	16.67		130.0	
10632-AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.65	67.46	17.04	0.46	130.0	± 9.6 %
		Y	5.72	67.47	17.05		130.0	
		Z	5.44	67.32	16.69		130.0	
10633-AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.32	66.30	16.27	0.46	130.0	± 9.6 %
		Y	5.51	66.72	16.50		130.0	
		Z	5.15	66.30	15.99		130.0	
10634-AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.36	66.54	16.45	0.46	130.0	± 9.6 %
		Y	5.51	66.83	16.61		130.0	
		Z	5.20	66.59	16.19		130.0	
10635-AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.20	65.70	15.73	0.46	130.0	± 9.6 %
		Y	5.36	66.01	15.90		130.0	
		Z	5.03	65.65	15.41		130.0	
10636-AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	5.78	66.65	16.42	0.46	130.0	± 9.6 %
		Y	5.90	66.91	16.56		130.0	
		Z	5.61	66.61	16.12		130.0	
10637-AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	5.90	67.00	16.58	0.46	130.0	± 9.6 %
		Y	6.04	67.28	16.73		130.0	
		Z	5.69	66.82	16.22		130.0	
10638-AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	5.94	67.10	16.61	0.46	130.0	± 9.6 %
		Y	6.05	67.30	16.71		130.0	
		Z	5.75	66.99	16.28		130.0	

10639-AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	5.87	66.88	16.54	0.46	130.0	± 9.6 %
		Y	6.00	67.17	16.69		130.0	
		Z	5.69	66.82	16.24		130.0	
10640-AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.79	66.67	16.37	0.46	130.0	± 9.6 %
		Y	5.97	67.09	16.59		130.0	
		Z	5.60	66.55	16.04		130.0	
10641-AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	5.95	66.94	16.53	0.46	130.0	± 9.6 %
		Y	6.07	67.17	16.65		130.0	
		Z	5.72	66.71	16.14		130.0	
10642-AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	5.93	67.02	16.75	0.46	130.0	± 9.6 %
		Y	6.09	67.36	16.93		130.0	
		Z	5.75	66.97	16.45		130.0	
10643-AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.79	66.72	16.48	0.46	130.0	± 9.6 %
		Y	5.94	67.06	16.66		130.0	
		Z	5.59	66.57	16.12		130.0	
10644-AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	5.83	66.84	16.56	0.46	130.0	± 9.6 %
		Y	6.00	67.25	16.78		130.0	
		Z	5.64	66.74	16.23		130.0	
10645-AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.00	67.07	16.64	0.46	130.0	± 9.6 %
		Y	6.21	67.54	16.89		130.0	
		Z	5.77	66.86	16.26		130.0	
10646-AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	10.86	99.58	34.54	9.30	60.0	± 9.6 %
		Y	12.75	100.34	33.52		60.0	
		Z	5.31	84.82	28.77		60.0	
10647-AAE	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	9.54	97.33	33.94	9.30	60.0	± 9.6 %
		Y	11.34	98.50	33.07		60.0	
		Z	4.72	82.70	28.08		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	0.33	60.00	5.33	0.00	150.0	± 9.6 %
		Y	0.54	62.99	9.08		150.0	
		Z	0.29	60.00	4.72		150.0	
10652-AAC	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.41	67.48	16.36	2.23	80.0	± 9.6 %
		Y	3.57	67.58	16.63		80.0	
		Z	3.03	66.68	15.51		80.0	
10653-AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.91	66.47	16.67	2.23	80.0	± 9.6 %
		Y	4.05	66.58	16.80		80.0	
		Z	3.59	65.97	16.06		80.0	
10654-AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.92	66.00	16.72	2.23	80.0	± 9.6 %
		Y	4.05	66.15	16.82		80.0	
		Z	3.64	65.53	16.15		80.0	
10655-AAD	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.00	65.85	16.74	2.23	80.0	± 9.6 %
		Y	4.12	66.05	16.84		80.0	
		Z	3.73	65.37	16.19		80.0	
10658-AAA	Pulse Waveform (200Hz, 10%)	X	8.11	79.21	17.64	10.00	50.0	± 9.6 %
		Y	5.18	73.01	14.95		50.0	
		Z	4.63	71.52	13.37		50.0	
10659-AAA	Pulse Waveform (200Hz, 20%)	X	100.00	107.57	23.76	6.99	60.0	± 9.6 %
		Y	5.94	76.36	14.90		60.0	
		Z	5.07	74.93	13.37		60.0	

10660-AAA	Pulse Waveform (200Hz, 40%)	X	100.00	102.40	19.98	3.98	80.0	± 9.6 %
		Y	100.00	101.57	19.73		80.0	
		Z	9.47	80.34	13.09		80.0	
10661-AAA	Pulse Waveform (200Hz, 60%)	X	0.90	65.14	7.58	2.22	100.0	± 9.6 %
		Y	100.00	98.16	17.19		100.0	
		Z	0.28	60.00	4.46		100.0	
10662-AAA	Pulse Waveform (200Hz, 80%)	X	42.12	60.80	1.47	0.97	120.0	± 9.6 %
		Y	0.19	60.00	4.14		120.0	
		Z	1.43	244.46	28.28		120.0	

[E] Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.