Second Source Evaluation Run Date: 6/25/14

RP1581: Freedom Industries

Second Source (SS) Mix	Analyte		SS Mix Preparation: $[Analyte]_{Stk}$ (ug/mL)	Stk Sol'n Aliquot (uL)	$[Analyte]_{SS\ Mix}$ (ug/mL)	SS Standard Preparation: Aliquot from SS Mix (uL)	$[Analyte]_{SS\ Std}$ (ug/mL)	SS Std Inj #1: $[Analyte]_{obs}$ (ug/mL)	% of Target	SS Std Inj #2: $[Analyte]_{obs}$ (ug/mL)	% of Target	SS Std Inj #3: $[Analyte]_{obs}$ (ug/mL)	% of Target	% of Target: mean	s	rsd
Fatty Acid stocks prepared in a 30% THF in IPA sol'n (see p. 61489-61491)	Octanoic Acid		6094	16.5	101	100	10.1	10.36	103%	10.27	102%	10.22	102%	102%	0.71%	0.69%
	Decanoic Acid		9957	10.0	99.6		10.0	10.69	107%	10.37	104%	10.40	104%	105%	1.8%	1.7%
	Dodecanoic Acid		5949	17.0	101		10.1	10.46	103%	10.32	102%	10.22	101%	102%	1.2%	1.2%
	Tetradecanoic Acid (a.ka. Myristic)		5028	20.0	101		10.1	9.74	96.9%	9.57	95.2%	9.60	95.5%	95.8%	0.90%	0.94%
	Hexadecanoic Acid (a.k.a. Palmitic)		6487	15.5	101		10.1	8.34	82.9%	8.14	81.0%	8.32	82.7%	82.2%	1.1%	1.3%
	Linoleic Acid		5028	20.0	101		10.1	8.17	81.2%	8.17	81.2%	8.40	83.5%	82.0%	1.3%	1.6%
	Oleic Acid		4603	21.5	99.0		9.90	8.15	82.4%	8.58	86.7%	8.56	86.5%	85.2%	2.5%	2.9%
	Octadecanoic Acid (a.k.a. Stearic)		5495	18.0	98.9		9.89	8.75	88.5%	8.11	82.0%	8.29	83.8%	84.8%	3.3%	3.9%
	Eicosanoic Acid		6279	16.0	100		10.0	N.D.	------	N.D.	------	N.D.	------	-----	-----	-----
	CH_2Cl_2			845.5												
MCHM Product Stocks in CH_2Cl_2 (see p. 61493)	*MCHM (I)*					20.0		*2.16*		*2.16*		*2.22*				
	MCHM (II)							*2.28*		*2.27*		*2.26*				
	Average MCHM		6631	15.0	99.47		1.99	2.22	112%	2.22	111%	2.24	113%	112%	0.66%	0.59%
	PPH		8350	12.0	100.2		2.00	2.10	105%	2.03	101%	2.02	101%	102%	2.2%	2.1%
	1,4-CHDM (I)							*2.34*		*1.88*		*1.82*				
	1,4-CHDM (II)							*2.11*		*2.07*		*1.99*				
	Average 1,4-CHDM		6930	14.5	100.5		2.01	2.23	111%	1.98	98.3%	1.91	94.8%	101%	8.4%	8.3%
	DM-1,4-DC		9377	10.5	98.46		1.97	2.24	114%	2.21	112%	2.20	112%	113%	1.1%	0.94%
	di-PPH (I)							*2.15*		*1.95*		*2.07*				
	di-PPH (II)							*2.25*		*2.07*		*2.18*				
	di-PPH (III)							*2.53*		*1.86*		*2.36*				
	di-PPH (IV)							*2.57*		*2.18*		*2.42*				
	Average di-PPH		8600	11.5	98.90		1.98	2.38	120%	2.02	102%	2.26	114%	112%	9.3%	8.3%
	CH_2Cl_2			936.5												
FAMEs Mix (Supelco, Lot# LC00126) prepared in CH_2Cl_2. [FAME] (mg/mL): 10.0 (see p. 61491)	Octanoic acid methyl ester	1.9%	190	100.0	19.0	50.0	0.950	0.99	104%	0.96	101%	0.96	101%	102%	1.8%	1.79%
	Decanoic acid methyl ester	3.2%	320		32.0		1.60	1.64	103%	1.58	98.8%	1.58	98.8%	100%	2.2%	2.2%
	Dodecanoic acid methyl ester	6.4%	640		64.0		3.20	3.53	110%	3.37	105%	3.38	106%	107%	2.8%	2.62%
	Tridecanoic Acid methyl ester	3.2%	320		32.0		1.60	1.71	107%	1.63	102%	1.61	101%	103%	3.3%	3.21%
	Myristoleic Acid methyl ester (C14:1n9c)	1.9%	190		19.0		0.950	0.94	98.9%	0.93	97.9%	0.93	97.9%	98.2%	0.61%	0.62%
	Tetradecanoic acid methyl ester	3.2%	320		32.0		1.60	1.62	101%	1.61	101%	1.62	101%	101%	0.36%	0.4%
	Pentadecanoic Acid methyl ester	1.9%	190		19.0		0.950	0.93	97.9%	0.91	95.8%	0.94	98.9%	97.5%	1.6%	1.65%
	Palmitoleic Acid methyl ester (C16:1n9c)	6.4%	640		64.0		3.20	3.16	98.8%	3.15	98.4%	3.21	100%	99.2%	1.0%	1.0%
	Hexadecanoic acid methyl ester	13.0%	1300		130.0		6.50	6.51	100%	6.43	98.9%	6.48	99.7%	99.6%	0.62%	0.6%
	Heptadecanoic Acid methyl ester	3.2%	320		32.0		1.60	1.52	95.0%	1.51	94.4%	1.50	93.8%	94.4%	0.62%	0.66%
	Linoleic Acid methyl ester (C18:2n6c)	13.0%	1300		130.0		6.50	6.30	96.9%	6.14	94.5%	6.30	96.9%	96.1%	1.4%	1.5%
	Linolenic Acid methyl ester (C18:3n3)- 6.4% Oleic Acid methyl ester (C18:1n9c)- 19.6%	26.0%	2600		260.0		13.00	13.23	102%	12.97	99.8%	13.07	101%	101%	1.0%	1.0%
	Elaidic Acid methyl ester (C18:1n9t)	2.6%	260		26.0		1.30	1.24	95.4%	1.29	99.2%	1.29	99.2%	97.9%	2.2%	2.3%
	Octadecanoic acid methyl ester	6.5%	650		65.0		3.25	3.10	95.4%	3.09	95.1%	3.20	98.5%	96.3%	1.9%	1.9%
	cis-11-Eicosenoic Acid methyl ester (C20:1)	1.9%	190		19.0		0.950	0.84	88.4%	0.85	89.5%	0.89	93.7%	90.5%	2.8%	3.1%
	Eicosenoic Acid methyl ester	1.9%	190		19.0		0.950	0.84	88.4%	0.86	90.5%	0.87	91.6%	90.2%	1.6%	1.8%
	Erucic Acid methyl ester (C22:1n9)	1.9%	190		19.0		0.950	0.83	87.4%	0.83	87.4%	0.83	87.4%	87.4%	0.0%	0.0%
	Docosanoic Acid methyl ester	1.9%	190		19.0		0.950	0.82	86.3%	0.83	87.4%	0.85	89.5%	87.7%	1.6%	1.8%
	CH_2Cl_2			900.0		830										

Calculations:

$$[Analyte]_{SS\ Mix}\ (ug/mL) = \frac{[Analyte]_{Stk\ sol'n}\ (ug/mL) \times Stk\ Sol'n\ Aliquot\ (uL)}{Volume\ (uL)_{SS\ mix} = 1000}$$

$$[Analyte]_{SS\ Std}\ (ug/mL) = \frac{[Analyte]_{SS\ mix}\ (ug/mL) \times SS\ mix\ Aliquot\ (uL)}{Volume\ (uL)_{SS\ Std} = 1000}$$

For MCHM:

$$[MCHM]_{SS\ Mix}\ (ug/mL) = \frac{6631\ (ug/mL) \times 15.0\ uL}{1000\ uL} = 99.47\ ug/mL$$

$$[MCHM]_{SS\ Std}\ (ug/mL) = \frac{99.47\ (ug/mL) \times 20.0\ uL}{1000\ uL} = 1.99\ ug/mL$$

$$\%\ Target = \frac{[Analyte]_{obs}\ (ug/mL)}{[Analyte]_{SS\ std}\ (ug/mL)} \times 100\%$$

For Decanoic Acid ME:

$$[Decanoic\ Acid\ ME]_{SS\ Mix}\ (ug/mL) = \frac{(10{,}000\ ug/mL \times 3.2\%/100\%) \times 100\ uL}{1000\ uL} = 32.00\ ug/mL$$

$$[Decanoic\ Acid\ ME]_{SS\ Std}\ (ug/mL) = \frac{32.00\ (ug/mL) \times 50.0\ uL}{1000\ uL} = 1.60\ ug/mL$$

8-4-14 (b) (7)(C) [redacted]

(b) (7)(C) 6/26/14

File :Fatty Acid Sample Analysis.xlsx *Sheet* :Second Source Eval 6-25-14

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\(b) (7)_06242014_Run\
Data File : 062514_001.D
Acq On : 25 Jun 2014 11:03 am
Operator (b) (7)(C)
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Jun 26 14:23:51 2014
Quant Method : C:\msdchem\1\METHODS\(b) (7) RP1581_Fatty Acids.M
Quant Title : RP1581(b) (7) Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

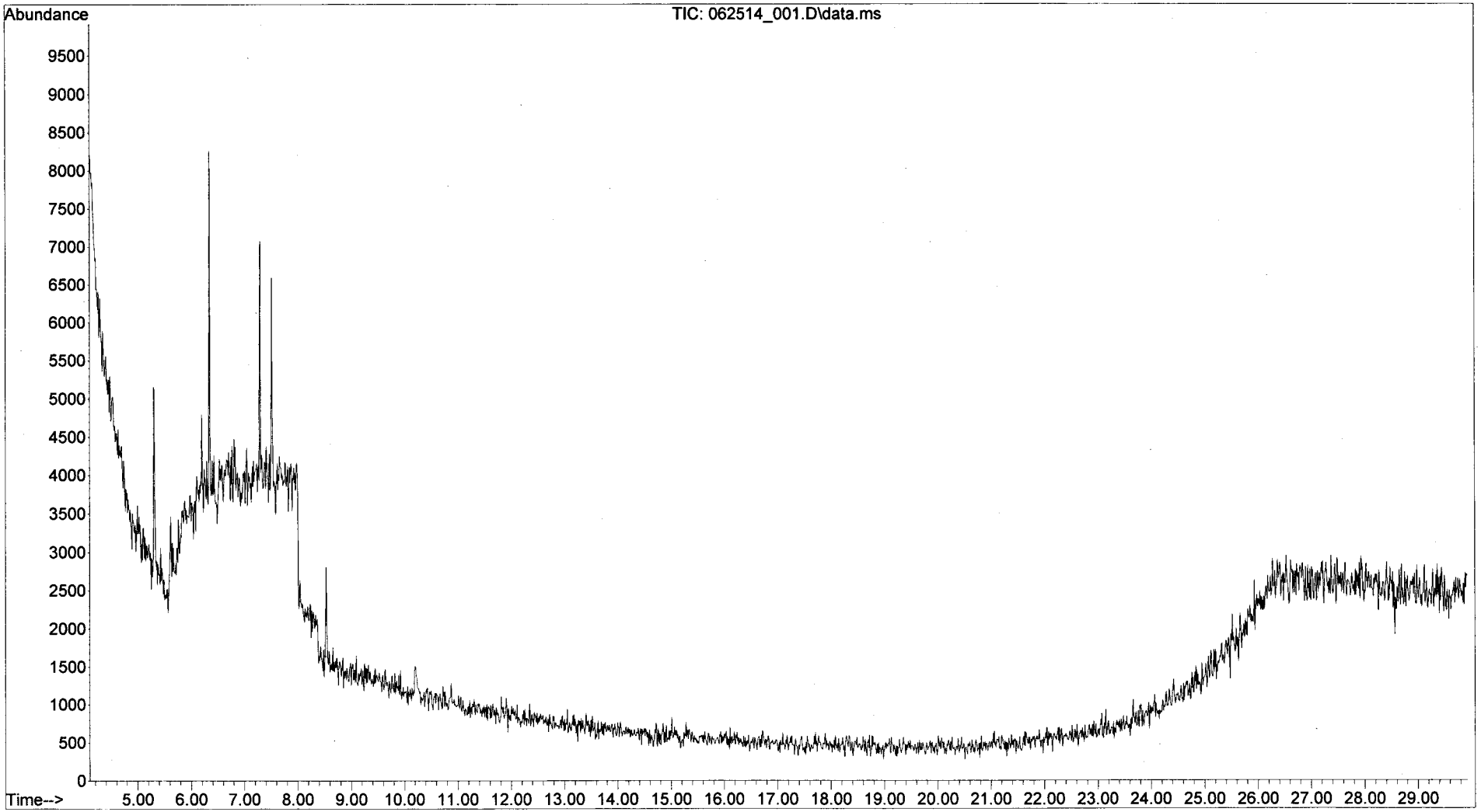
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	0.000		0	N.D.	
2) Decanoic Acid	0.000		0	N.D.	
3) Dodecanoic Acid	0.000		0	N.D.	
4) Tetradecanoic Acid	0.000		0	N.D.	
5) Hexadecanoic Acid	0.000		0	N.D. d	
6) Linoleic Acid	0.000		0	N.D.	
7) Oleic Acid	0.000		0	N.D.	
8) Octadecanoic Acid	0.000		0	N.D.	
9) Eicosanoic Acid	0.000		0	N.D.	
10) MCHM (I)	0.000		0	N.D.	
11) MCHM (II)	0.000		0	N.D.	
12) PPH	0.000		0	N.D.	
13) 1,4-CHDM (I)	0.000		0	N.D.	
14) 1,4-CHDM (II)	0.000		0	N.D.	
15) DMCH-1,4-DC	0.000		0	N.D.	
16) Di-PPH (I)	0.000		0	N.D.	
17) di-PPH (II)	0.000		0	N.D.	
18) di-PPH (III)	0.000		0	N.D.	
19) di-PPH (IV)	0.000		0	N.D.	
20) Octanoic Acid-ME	0.000		0	N.D.	
21) Decanoic Acid-ME	0.000		0	N.D. d	
22) Dodecanoic Acid-ME	0.000		0	N.D. d	
23) Tridecanoic Acid-ME	0.000		0	N.D.	
24) Myristolic Acid-ME	0.000		0	N.D.	
25) Tetradecanoic Acid-ME	0.000		0	N.D.	
26) Pentadecanoic Acid-ME (b) (7)	0.000		0	N.D.	
27) Palmitoleic Acid-ME 7/25/14	0.000		0	N.D.	
28) Hexadecanoic Acid-ME	0.000		0	N.D.	
29) Heptadecanoic Acid-ME	0.000		0	N.D.	
30) Linoleic Acid-ME	0.000		0	N.D.	
31) Linolenic/Oleic Acid-MEs	0.000		0	N.D.	
32) Elaidic Acid-ME	0.000		0	N.D.	
33) Octadecanoic Acid-ME	0.000		0	N.D.	
34) cis-11-Eicosanoic Acid-ME	0.000		0	N.D.	
35) Eicosanoic Acid-ME	0.000		0	N.D.	
36) Erucic Acid-ME	0.000		0	N.D.	
37) Docosanoic Acid-ME	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]_06242014_Run\
Data File : 062514_001.D
Acq On : 25 Jun 2014 11:03 am
Operator [redacted]
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 83 Sample Multiplier: 1

Quant Time: Jun 26 14:23:51 2014
Quant Method : C:\msdchem\1\METHODS[redacted]_RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]_Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

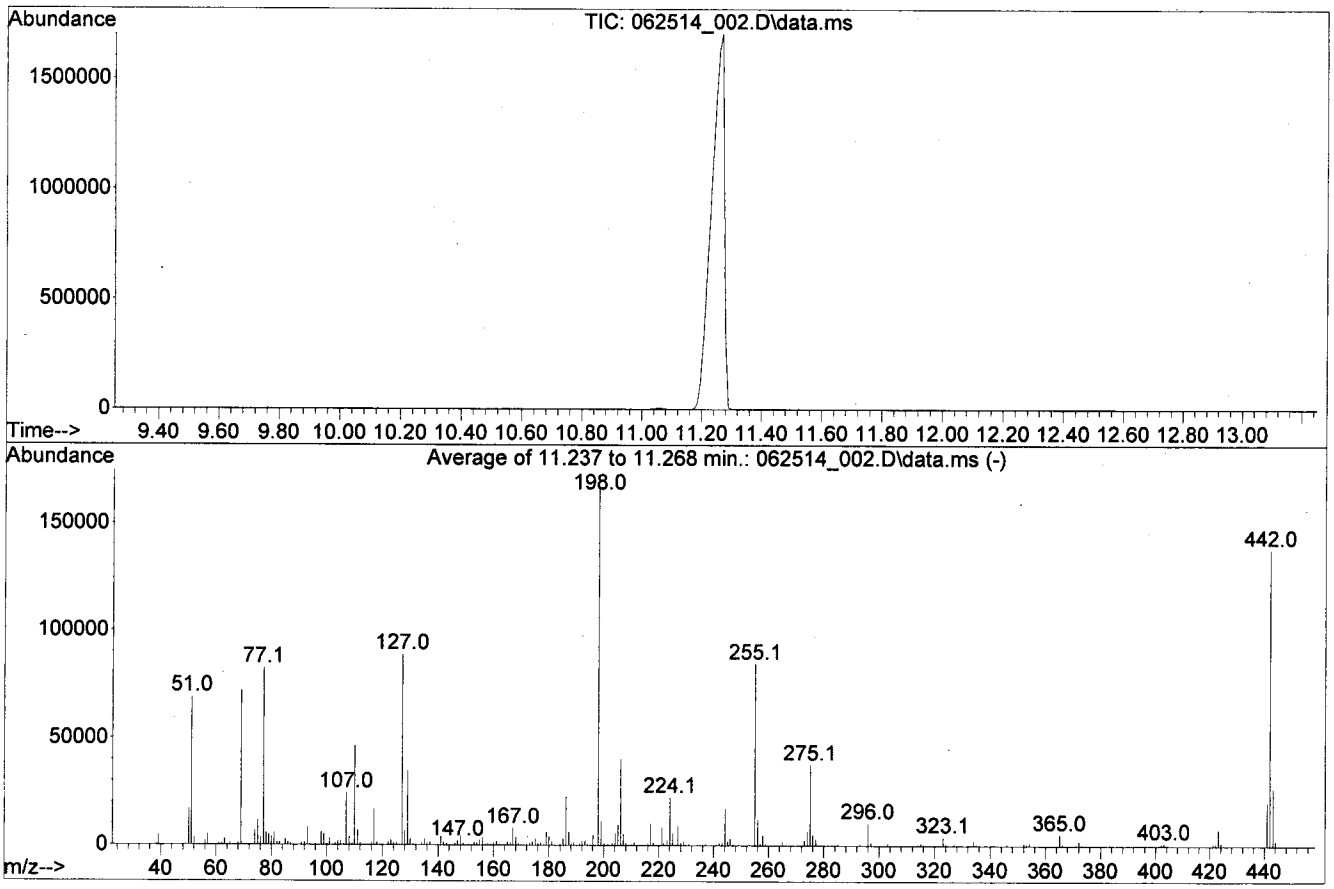


DFTPP

Data Path : D:\RP158[redacted]_06242014_Run\
Data File : 062514_002.D
Acq On : 25 Jun 2014 11:39 am
Operator : [redacted]
Sample : DFTPP
Misc : 50 ppm
ALS Vial : 77 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Title : RP1581[redacted]Fatty Acids_&_MCHM
Last Update : Thu Jun 19 16:20:55 2014



Spectrum Information: Average of 11.237 to 11.268 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.5	69011	PASS
68	69	0.00	2	1.5	1083	PASS
69	198	0.00	100	43.4	72190	PASS
70	69	0.00	2	0.5	341	PASS
127	198	40	60	53.3	88728	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	166402	PASS
199	198	5	9	6.7	11218	PASS
275	198	10	30	22.6	37658	PASS
365	198	1	100	3.1	5080	PASS
441	443	0.01	100	74.7	20030	PASS
442	198	40	100	83.0	138104	PASS
443	442	17	23	19.4	26812	PASS

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]06242014_Run\
Data File : 062514_002.D
Acq On : 25 Jun 2014 11:39 am
Operator [redacted]
Sample : DFTPP
Misc : 50 ppm
ALS Vial : 77 Sample Multiplier: 1

Quant Time: Jun 26 14:26:40 2014
Quant Method : C:\msdchem\1\METHODS[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

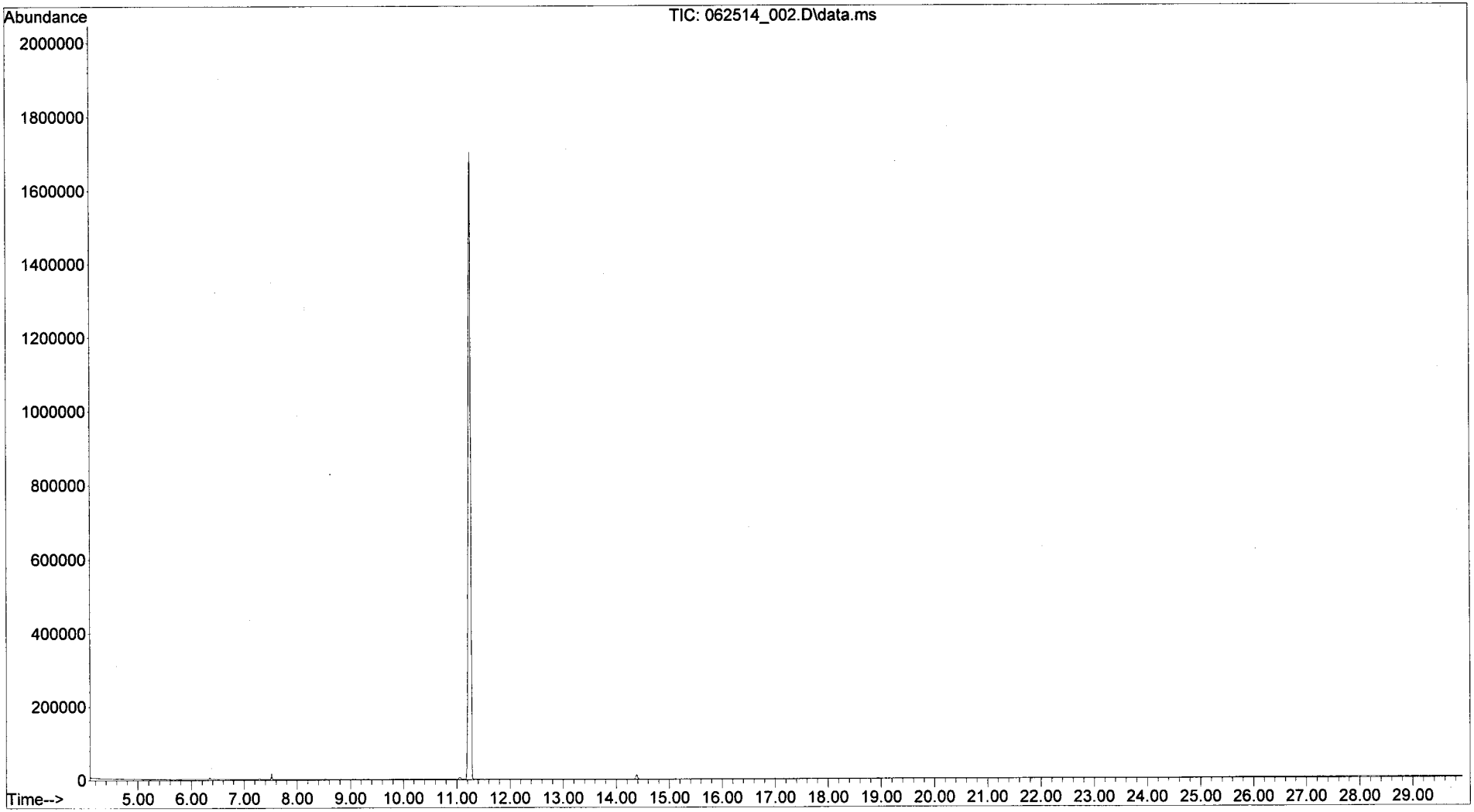
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	0.000		0	N.D.	
2) Decanoic Acid	0.000		0	N.D.	
3) Dodecanoic Acid	0.000		0	N.D.	
4) Tetradecanoic Acid	0.000		0	N.D.	
5) Hexadecanoic Acid	0.000		0	N.D. d	
6) Linoleic Acid	0.000		0	N.D.	
7) Oleic Acid	0.000		0	N.D.	
8) Octadecanoic Acid	0.000		0	N.D.	
9) Eicosanoic Acid	0.000		0	N.D.	
10) MCHM (I)	0.000		0	N.D. d	
11) MCHM (II)	0.000		0	N.D.	
12) PPH	0.000		0	N.D.	
13) 1,4-CHDM (I)	0.000		0	N.D.	
14) 1,4-CHDM (II)	0.000		0	N.D.	
15) DMCH-1,4-DC	0.000		0	N.D.	
16) Di-PPH (I)	0.000		0	N.D.	
17) di-PPH (II)	0.000		0	N.D.	
18) di-PPH (III)	0.000		0	N.D.	
19) di-PPH (IV)	0.000		0	N.D.	
20) Octanoic Acid-ME	0.000		0	N.D.	
21) Decanoic Acid-ME	0.000		0	N.D. d	
22) Dodecanoic Acid-ME	0.000		0	N.D. d	
23) Tridecanoic Acid-ME	0.000		0	N.D.	
24) Myristolic Acid-ME	0.000		0	N.D.	
25) Tetradecanoic Acid-ME	0.000		0	N.D.	
26) Pentadecanoic Acid-ME	0.000		0	N.D.	
27) Palmitoleic Acid-ME [redacted] 7/25/14	0.000		0	N.D. d	
28) Hexadecanoic Acid-ME	0.000		0	N.D. d	
29) Heptadecanoic Acid-ME	0.000		0	N.D.	
30) Linoleic Acid-ME	0.000		0	N.D.	
31) Linolenic/Oleic Acid-MEs	0.000		0	N.D.	
32) Elaidic Acid-ME	0.000		0	N.D.	
33) Octadecanoic Acid-ME	0.000		0	N.D. d	
34) cis-11-Eicosanoic Acid-ME	0.000		0	N.D.	
35) Eicosanoic Acid-ME	0.000		0	N.D.	
36) Erucic Acid-ME	0.000		0	N.D.	
37) Docosanoic Acid-ME	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]_06242014_Run\
Data File : 062514_002.D
Acq On : 25 Jun 2014 11:39 am
Operator [redacted]
Sample : DFTPP
Misc : 50 ppm
ALS Vial : 77 Sample Multiplier: 1

Quant Time: Jun 26 14:26:40 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]_RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]_Fatty Acids_Q_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\(b) (7)(C)_06242014_Run\
Data File : 062514_003.D
Acq On : 25 Jun 2014 12:15 pm
Operator : (b) (7)
Sample : Std Level 4
Misc : CCV Standard 4 (6/24/14)
ALS Vial : 82 Sample Multiplier: 1

Quant Time: Jun 26 14:33:29 2014
Quant Method : C:\msdchem\1\METHODS\(b) (7)(C)RP1581_Fatty Acids.M
Quant Title : RP1581_(b)_Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	5.507	60	206782	10.45	98
2) Decanoic Acid	6.605	60	166521	10.85	98
3) Dodecanoic Acid	7.735	60	116370	9.78	98
4) Tetradecanoic Acid	9.434	60	76083	9.59	96
5) Hexadecanoic Acid	11.973	73	40246	8.58	94
6) Linoleic Acid	14.699	67	14489m	9.40	
7) Oleic Acid	14.802	55	27464m	9.30	
8) Octadecanoic Acid	15.217	60	12594m	8.83	
9) Eicosanoic Acid	0.000		0	N.D. d	
10) MCHM (I)	4.709	55	21298	2.14	# 96
11) MCHM (II)	4.864	55	44814	2.17	97
12) PPH	5.921	94	85649	2.29	97
13) 1,4-CHDM (I)	6.522	95	39103m	2.41	
14) 1,4-CHDM (II)	6.626	95	13325m	2.37	
15) DMCH-1,4-DC	7.040	81	48283	2.32	94
16) Di-PPH (I)	7.610	59	13520	2.05	96
17) di-PPH (II)	7.724	94	11163m	2.20	
18) di-PPH (III)	7.807	94	949m	2.09	
19) di-PPH (IV)	7.859	94	707m	2.44	
20) Octanoic Acid-ME	5.133	74	42373	1.06	97
21) Decanoic Acid-ME	6.346	74	77328	1.81	97
22) Dodecanoic Acid-ME	7.465	74	154073	3.70	99
23) Tridecanoic Acid-ME	8.170	74	76122	1.80	98
24) Myristolic Acid-ME	8.937	55	19981	1.01	94
25) Tetradecanoic Acid-ME	9.051	74	76266	1.78	98
26) Pentadecanoic Acid-ME	10.139	74	41632	1.00	98
27) Palmitoleic Acid-ME (b) 8/5/14	11.165	55	59694	3.44	100
28) Hexadecanoic Acid-ME	11.455	74	306950	7.30	99
29) Heptadecanoic Acid-ME	12.947	74	67518	1.65	97
30) Linoleic Acid-ME	14.056	67	98387	6.87	97
31) Linolenic/Oleic Acid-MEs	14.180	55	207734	14.62	100
32) Elaidic Acid-ME	14.263	55	28528m	1.43	
33) Octadecanoic Acid-ME	14.595	74	143875	3.49	96
34) cis-11-Eicosanoic Acid-ME	17.621	55	18562m	0.95	
35) Eicosanoic Acid-ME	18.035	74	35026	0.94	97
36) Erucic Acid-ME	20.222	55	13530m	0.91	
37) Docosanoic Acid-ME	20.502	74	26677	0.91	98

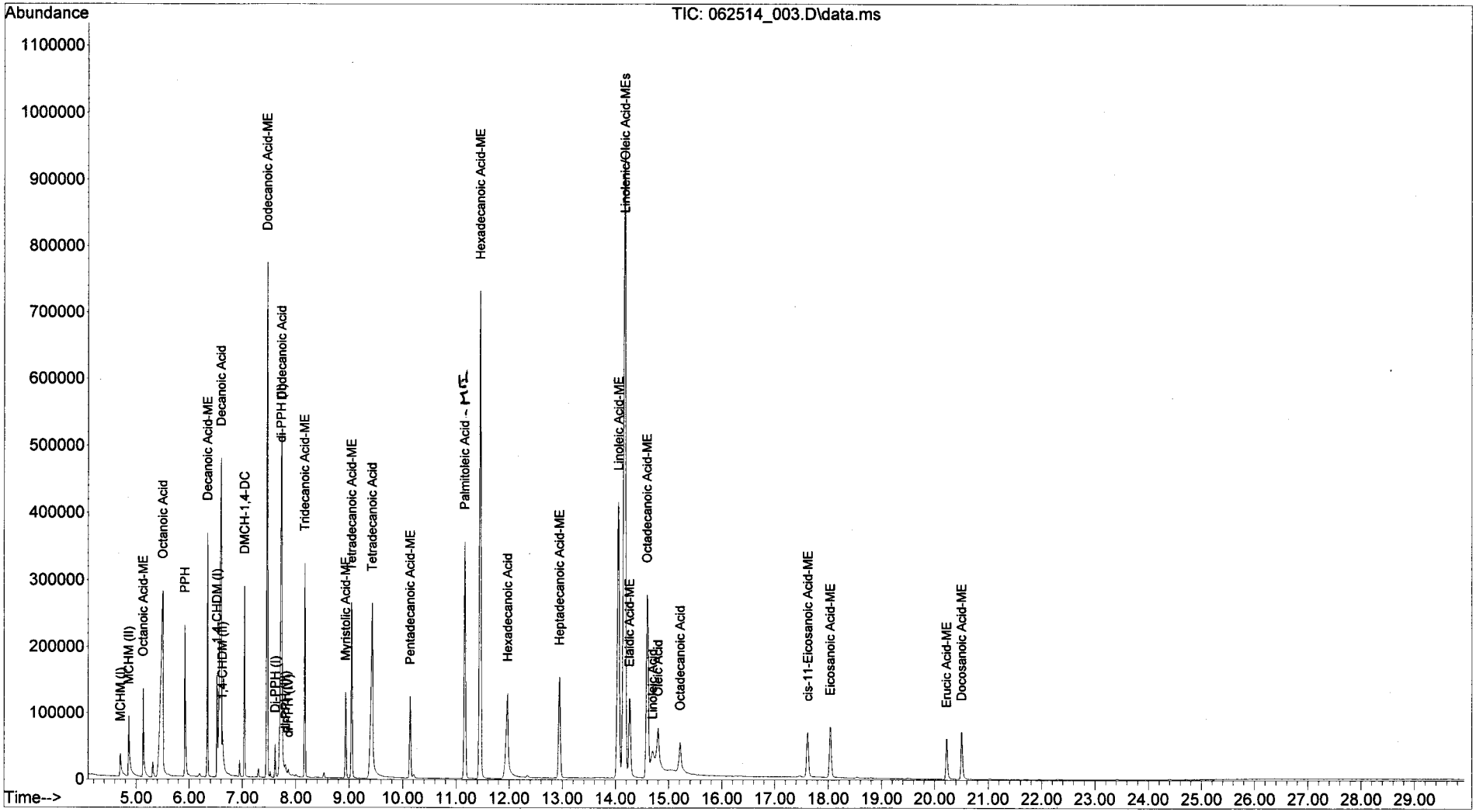
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Not Used
remade fresh Std.
(b) (7)(C) 8/5/14

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]06242014_Run\
Data File : 062514_003.D
Acq On : 25 Jun 2014 12:15 pm
Operator : [redacted]
Sample : Std Level 4
Misc : CCV Standard 4 (6/24/14)
ALS Vial : 82 Sample Multiplier: 1

Quant Time: Jun 26 14:33:29 2014
Quant Method : C:\msdchem\1\METHODS[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]06242014_Run\
Data File : 062514_004.D
Acq On : 25 Jun 2014 12:51 pm
Operator :[redacted]
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 84 Sample Multiplier: 1

Quant Time: Jun 26 14:34:24 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP158[redacted]atty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

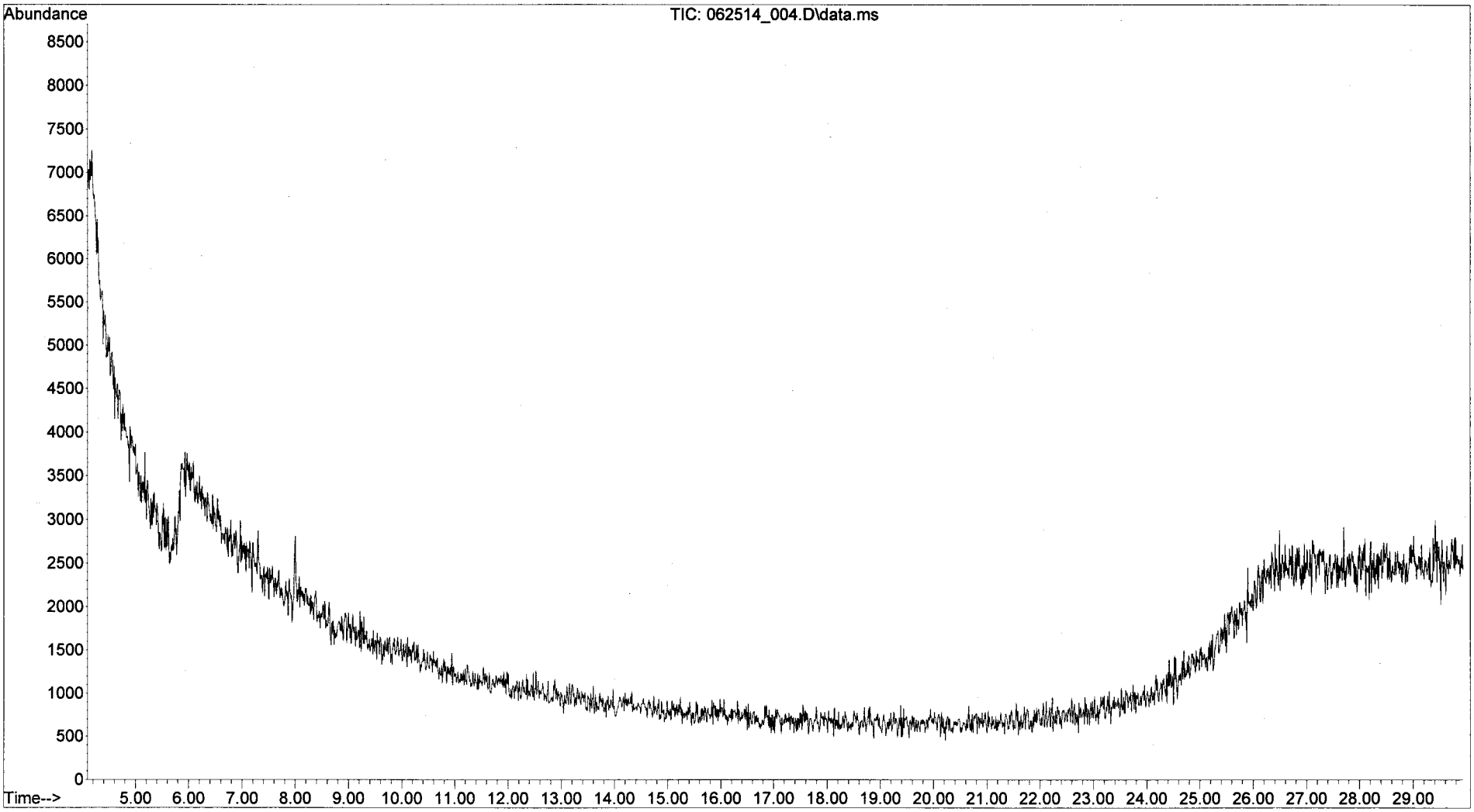
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	0.000		0	N.D.	
2) Decanoic Acid	0.000		0	N.D.	
3) Dodecanoic Acid	0.000		0	N.D.	
4) Tetradecanoic Acid	0.000		0	N.D.	
5) Hexadecanoic Acid	0.000		0	N.D. d	
6) Linoleic Acid	0.000		0	N.D.	
7) Oleic Acid	0.000		0	N.D. d	
8) Octadecanoic Acid	0.000		0	N.D.	
9) Eicosanoic Acid	0.000		0	N.D.	
10) MCHM (I)	0.000		0	N.D.	
11) MCHM (II)	0.000		0	N.D.	
12) PPH	0.000		0	N.D.	
13) 1,4-CHDM (I)	0.000		0	N.D.	
14) 1,4-CHDM (II)	0.000		0	N.D.	
15) DMCH-1,4-DC	0.000		0	N.D.	
16) Di-PPH (I)	0.000		0	N.D.	
17) di-PPH (II)	0.000		0	N.D.	
18) di-PPH (III)	0.000		0	N.D.	
19) di-PPH (IV)	0.000		0	N.D.	
20) Octanoic Acid-ME	0.000		0	N.D.	
21) Decanoic Acid-ME	0.000		0	N.D.	
22) Dodecanoic Acid-ME	0.000		0	N.D.	
23) Tridecanoic Acid-ME	0.000		0	N.D.	
24) Myristolic Acid-ME	0.000		0	N.D.	
25) Tetradecanoic Acid-ME	0.000		0	N.D.	
26) Pentadecanoic Acid-ME	0.000		0	N.D.	
27) Palmitoleic Acid-ME [redacted] 7/25/14	0.000		0	N.D.	
28) Hexadecanoic Acid-ME	0.000		0	N.D.	
29) Heptadecanoic Acid-ME	0.000		0	N.D.	
30) Linoleic Acid-ME	0.000		0	N.D.	
31) Linolenic/Oleic Acid-MEs	0.000		0	N.D.	
32) Elaidic Acid-ME	0.000		0	N.D.	
33) Octadecanoic Acid-ME	0.000		0	N.D.	
34) cis-11-Eicosanoic Acid-ME	0.000		0	N.D.	
35) Eicosanoic Acid-ME	0.000		0	N.D.	
36) Erucic Acid-ME	0.000		0	N.D.	
37) Docosanoic Acid-ME	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\(b) (7) 06242014_Run\
Data File : 062514_004.D
Acq On : 25 Jun 2014 12:51 pm
Operator : (b) (7)
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 84 Sample Multiplier: 1

Quant Time: Jun 26 14:34:24 2014
Quant Method : C:\msdchem\1\METHODS\(b) RP1581_Fatty Acids.M
Quant Title : RP158(b) (7) Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted] 06242014_Run\
Data File : 062514_005.D
Acq On : 25 Jun 2014 1:27 pm
Operator [redacted]
Sample : CCV Std
Misc : CCV Standard 4 (6/25/14)
ALS Vial : 85 Sample Multiplier: 1

Quant Time: Jun 26 14:44:25 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]_RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]_Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

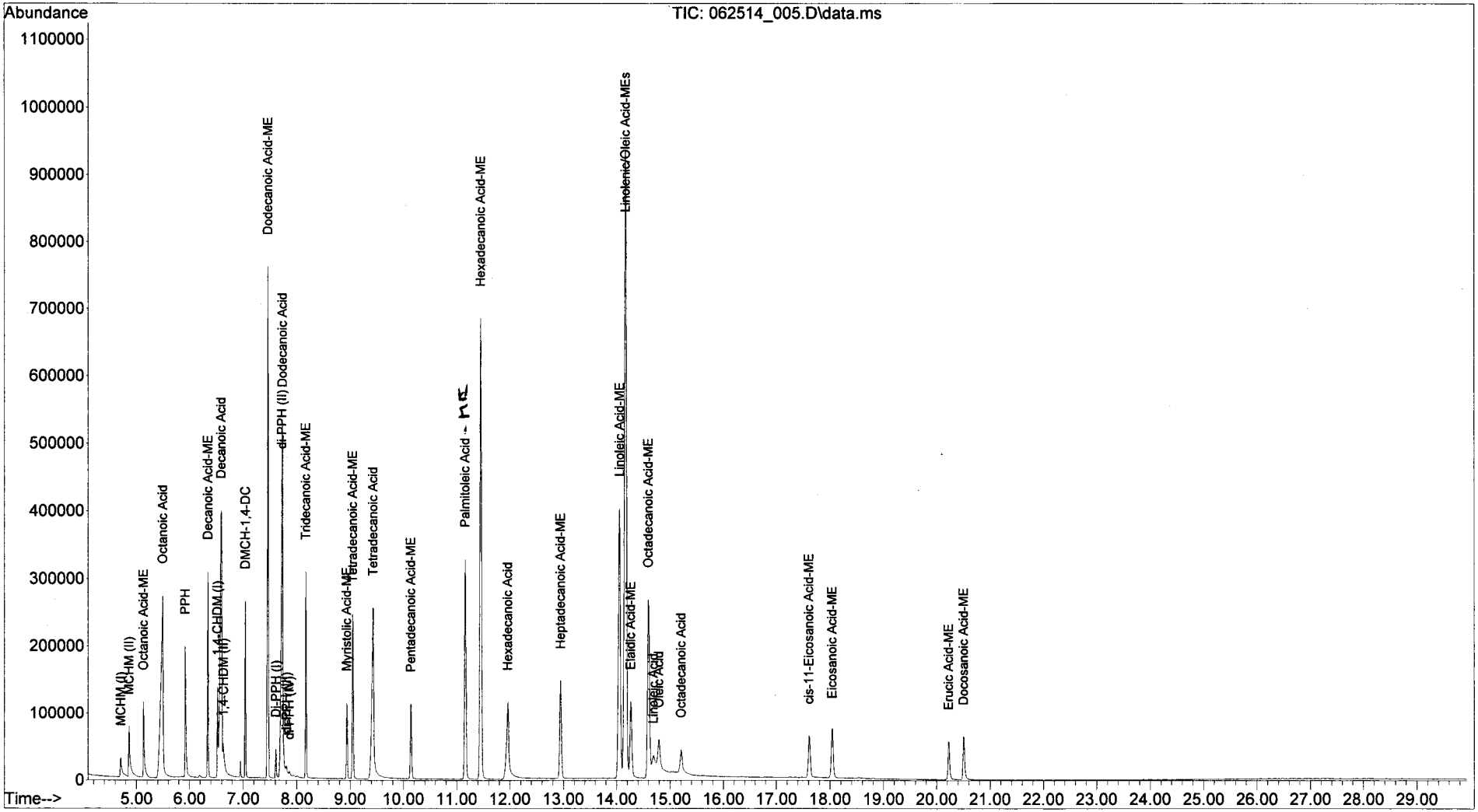
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Target Compounds						Qvalue
1) Octanoic Acid	5.496	60	179023	9.29		99
2) Decanoic Acid	6.595	60	150988	9.97		96
3) Dodecanoic Acid	7.735	60	117322	9.84		100
4) Tetradecanoic Acid	9.434	60	69959	9.07		98
5) Hexadecanoic Acid	11.963	73	34367m	7.94		
6) Linoleic Acid	14.688	67	9363m	8.01		
7) Oleic Acid	14.792	55	21591m	8.15		
8) Octadecanoic Acid	15.206	60	9969m	7.76		
9) Eicosanoic Acid	0.000		0	N.D. d		
10) MCHM (I)	4.709	55	19263	1.95	#	94
11) MCHM (II)	4.864	55	42928m	2.08		
12) PPH	5.921	94	78452	2.10		96
13) 1,4-CHDM (I)	6.522	95	34142m	2.11		
14) 1,4-CHDM (II)	6.636	95	11891m	2.13		
15) DMCH-1,4-DC	7.040	81	45331	2.17		95
16) Di-PPH (I)	7.610	59	11858	1.84		99
17) di-PPH (II)	7.724	94	10782m	2.12		
18) di-PPH (III)	7.807	94	1109m	2.37		
19) di-PPH (IV)	7.859	94	597m	2.03		
20) Octanoic Acid-ME	5.134	74	40579	1.01		98
21) Decanoic Acid-ME	6.346	74	69950	1.64		98
22) Dodecanoic Acid-ME	7.465	74	153243	3.68		97
23) Tridecanoic Acid-ME	8.170	74	72791	1.72		99
24) Myristolic Acid-ME	8.937	55	18359	0.93		99
25) Tetradecanoic Acid-ME	9.051	74	73751	1.72		99
26) Pentadecanoic Acid-ME	10.139	74	38412	0.93		97
27) Palmitoleic Acid-ME [redacted] 7/31/14	11.165	55	56590	3.27		98
28) Hexadecanoic Acid-ME	11.455	74	285773	6.80		100
29) Heptadecanoic Acid-ME	12.947	74	65450	1.60		99
30) Linoleic Acid-ME	14.056	67	92766	6.50		98
31) Linolenic/Oleic Acid-MEs	14.170	55	196778	13.84		98
32) Elaidic Acid-ME	14.263	55	26288m	1.32		
33) Octadecanoic Acid-ME	14.595	74	138409	3.36		97
34) cis-11-Eicosanoic Acid-ME	17.611	55	16862m	0.88		
35) Eicosanoic Acid-ME	18.036	74	33630	0.91		98
36) Erucic Acid-ME	20.222	55	12668m	0.86		
37) Docosanoic Acid-ME	20.502	74	24733	0.86		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]06242014_Run\
Data File : 062514_005.D
Acq On : 25 Jun 2014 1:27 pm
Operator [redacted]
Sample : CCV Std
Misc : CCV Standard 4 (6/25/14)
ALS Vial : 85 Sample Multiplier: 1

Quant Time: Jun 26 14:44:25 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP158[redacted]atty Acid[redacted]MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\[redacted]_06242014_Run\
Data File : 062514_006.D
Acq On : 25 Jun 2014 2:03 pm
Operator [redacted]
Sample : SS #2 Std
Misc : SS #2 Std (6/25/14)
ALS Vial : 86 Sample Multiplier: 1

Quant Time: Jun 26 14:51:51 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]_RP1581_Fatty Acids.M
Quant Title : RP158[redacted]_Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

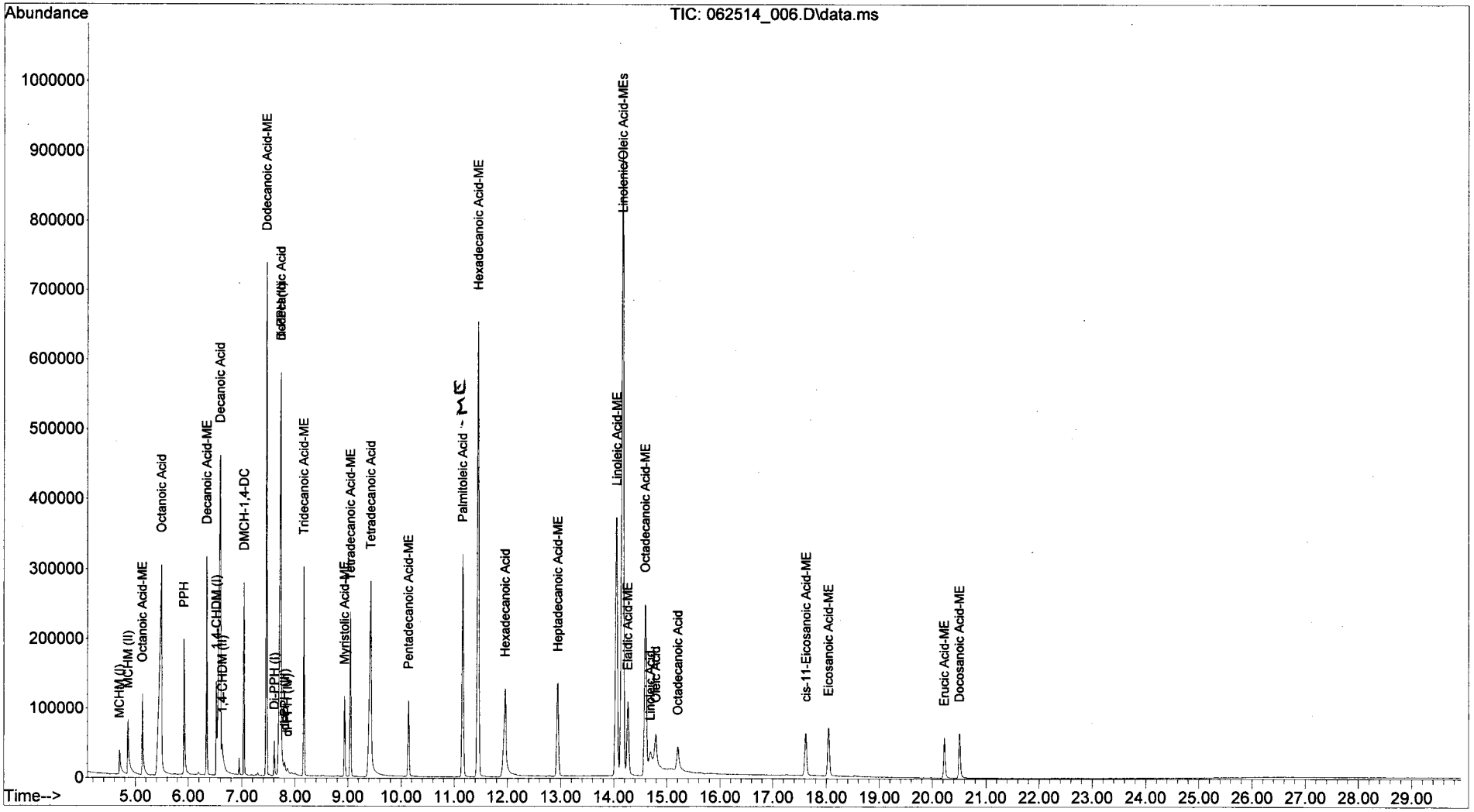
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	5.496	60	204745	10.36	99
2) Decanoic Acid	6.595	60	163582	10.69	96
3) Dodecanoic Acid	7.735	60	126891	10.46	97
4) Tetradecanoic Acid	9.434	60	77887	9.74	97
5) Hexadecanoic Acid	11.963	73	38107m	8.34	
6) Linoleic Acid	14.688	67	9905m	8.17	
7) Oleic Acid	14.792	55	21599m	8.15	
8) Octadecanoic Acid	15.207	60	12386m	8.75	
9) Eicosanoic Acid	0.000		0	N.D. d	
10) MCHM (I)	4.698	55	21525	2.16	# 96
11) MCHM (II)	4.864	55	47166m	2.28	
12) PPH	5.921	94	78446	2.10	97
13) 1,4-CHDM (I)	6.522	95	38055	2.34	96
14) 1,4-CHDM (II)	6.636	95	11778	2.11	97
15) DMCH-1,4-DC	7.040	81	46578	2.24	95
16) Di-PPH (I)	7.610	59	14339	2.15	94
17) di-PPH (II)	7.735	94	11426m	2.25	
18) di-PPH (III)	7.807	94	1201m	2.53	
19) di-PPH (IV)	7.859	94	742m	2.57	
20) Octanoic Acid-ME	5.134	74	39658	0.99	98
21) Decanoic Acid-ME	6.346	74	69774	1.64	97
22) Dodecanoic Acid-ME	7.465	74	147240	3.53	98
23) Tridecanoic Acid-ME	8.170	74	72068	1.71	99
24) Myristolic Acid-ME	8.937	55	18452	0.94	94
25) Tetradecanoic Acid-ME	9.051	74	68914	1.62	98
26) Pentadecanoic Acid-ME	10.139	74	38335	0.93	100
27) Palmitoleic Acid-ME [redacted] 7/25/14	11.165	55	54578	3.16	98
28) Hexadecanoic Acid-ME	11.455	74	273248	6.51	100
29) Heptadecanoic Acid-ME	12.947	74	61783	1.52	98
30) Linoleic Acid-ME	14.056	67	89772	6.30	98
31) Linolenic/Oleic Acid-MEs	14.170	55	188161	13.23	99
32) Elaidic Acid-ME	14.263	55	24532m	1.24	
33) Octadecanoic Acid-ME	14.595	74	127653	3.10	97
34) cis-11-Eicosanoic Acid-ME	17.621	55	15940m	0.84	
35) Eicosanoic Acid-ME	18.036	74	30832	0.84	100
36) Erucic Acid-ME	20.222	55	12181m	0.83	
37) Docosanoic Acid-ME	20.502	74	23488	0.82	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\(b) (7)(C)_06242014_Run\
Data File : 062514_006.D
Acq On : 25 Jun 2014 2:03 pm
Operator : (b) (7)(C)
Sample : SS #2 Std
Misc : SS #2 Std (6/25/14)
ALS Vial : 86 Sample Multiplier: 1

Quant Time: Jun 26 14:51:51 2014
Quant Method : C:\msdchem\1\METHODS\(b) (7)(C)_RP1581_Fatty Acids.M
Quant Title : RP1581(b) (7)(C) Fatty Acids_d_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581 (b) (7) (C) 06242014_Run\
Data File : 062514_007.D
Acq On : 25 Jun 2014 3:35 pm
Operator (b) (7)(C)
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 87 Sample Multiplier: 1

Quant Time: Jun 26 14:53:05 2014
Quant Method : C:\msdchem\1\METHODS\(b) (7) (C) RP1581_Fatty Acids.M
Quant Title : RP1581 (b) (7) (C) Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

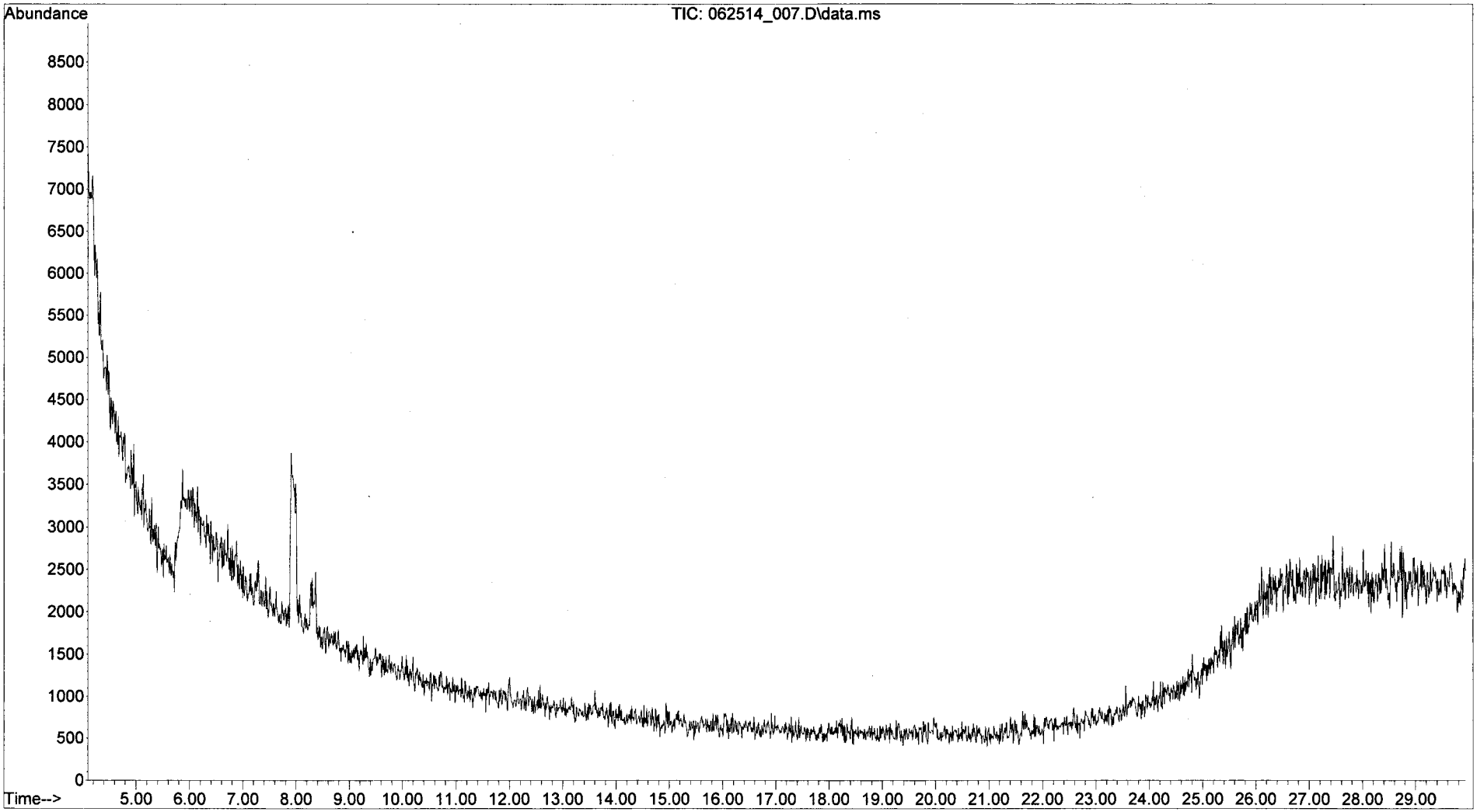
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Octanoic Acid	0.000		0	N.D.		
2) Decanoic Acid	0.000		0	N.D.		
3) Dodecanoic Acid	0.000		0	N.D.		
4) Tetradecanoic Acid	0.000		0	N.D.		
5) Hexadecanoic Acid	0.000		0	N.D.		
6) Linoleic Acid	0.000		0	N.D.		
7) Oleic Acid	0.000		0	N.D.		
8) Octadecanoic Acid	0.000		0	N.D.		
9) Eicosanoic Acid	0.000		0	N.D.		
10) MCHM (I)	0.000		0	N.D.	d	
11) MCHM (II)	0.000		0	N.D.	d	
12) PPH	0.000		0	N.D.		
13) 1,4-CHDM (I)	0.000		0	N.D.		
14) 1,4-CHDM (II)	0.000		0	N.D.		
15) DMCH-1,4-DC	0.000		0	N.D.		
16) Di-PPH (I)	0.000		0	N.D.		
17) di-PPH (II)	0.000		0	N.D.		
18) di-PPH (III)	0.000		0	N.D.		
19) di-PPH (IV)	0.000		0	N.D.		
20) Octanoic Acid-ME	0.000		0	N.D.		
21) Decanoic Acid-ME	0.000		0	N.D.		
22) Dodecanoic Acid-ME	0.000		0	N.D.		
23) Tridecanoic Acid-ME	0.000		0	N.D.		
24) Myristolic Acid-ME	0.000		0	N.D.	d	
25) Tetradecanoic Acid-ME	0.000		0	N.D.		
26) Pentadecanoic Acid-ME	0.000		0	N.D.		
27) Palmitoleic Acid-ME (b) (7)	0.000		0	N.D.		
28) Hexadecanoic Acid-ME	0.000		0	N.D.		
29) Heptadecanoic Acid-ME	0.000		0	N.D.		
30) Linoleic Acid-ME	0.000		0	N.D.		
31) Linolenic/Oleic Acid-MEs	0.000		0	N.D.		
32) Elaidic Acid-ME	0.000		0	N.D.		
33) Octadecanoic Acid-ME	0.000		0	N.D.		
34) cis-11-Eicosanoic Acid-ME	0.000		0	N.D.		
35) Eicosanoic Acid-ME	0.000		0	N.D.		
36) Erucic Acid-ME	0.000		0	N.D.		
37) Docosanoic Acid-ME	0.000		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\[redacted]_06242014_Run\
Data File : 062514_007.D
Acq On : 25 Jun 2014 3:35 pm
Operator : [redacted]
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 87 Sample Multiplier: 1

Quant Time: Jun 26 14:53:05 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581_[redacted]Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\[redacted]_06242014_Run\
Data File : 062514_008.D
Acq On : 25 Jun 2014 4:11 pm
Operator : [redacted]
Sample : CCV Std
Misc : CCV Standard 4 (6/25/14)
ALS Vial : 88 Sample Multiplier: 1

Quant Time: Jun 26 15:03:01 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]_RP1581_Fatty Acids.M
Quant Title : RP1581_[redacted]_Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

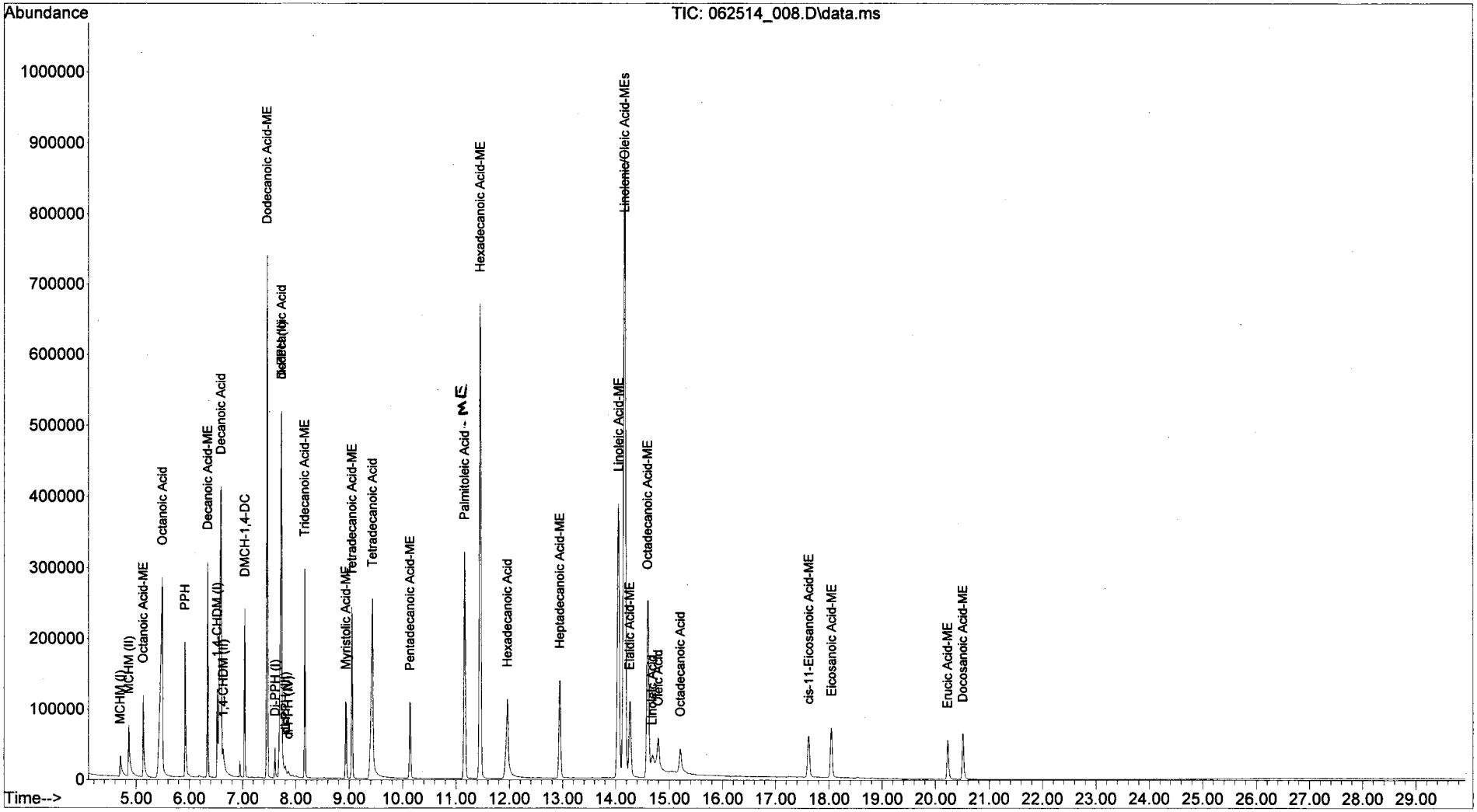
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	5.496	60	185692	9.57	98
2) Decanoic Acid	6.595	60	145080	9.63	98
3) Dodecanoic Acid	7.735	60	113032	9.57	100
4) Tetradecanoic Acid	9.434	60	69852	9.07	97
5) Hexadecanoic Acid	11.963	73	35145m	8.02	
6) Linoleic Acid	14.678	67	8587m	7.79	
7) Oleic Acid	14.792	55	23384m	8.50	
8) Octadecanoic Acid	15.206	60	10401m	7.94	
9) Eicosanoic Acid	0.000		0	N.D. d	
10) MCHM (I)	4.698	55	19485	1.97	96
11) MCHM (II)	4.864	55	43754m	2.12	
12) PPH	5.921	94	76055	2.04	96
13) 1,4-CHDM (I)	6.522	95	32105m	1.99	
14) 1,4-CHDM (II)	6.636	95	11608m	2.09	
15) DMCH-1,4-DC	7.040	81	44457	2.13	92
16) Di-PPH (I)	7.610	59	12185	1.88	97
17) di-PPH (II)	7.735	94	10391m	2.05	
18) di-PPH (III)	7.807	94	946m	2.08	
19) di-PPH (IV)	7.859	94	664m	2.28	
20) Octanoic Acid-ME	5.133	74	40813	1.02	99
21) Decanoic Acid-ME	6.346	74	69086	1.63	97
22) Dodecanoic Acid-ME	7.465	74	146054	3.50	97
23) Tridecanoic Acid-ME	8.170	74	70943	1.68	98
24) Myristolic Acid-ME	8.937	55	17962	0.92	97
25) Tetradecanoic Acid-ME	9.051	74	70320	1.65	99
26) Pentadecanoic Acid-ME	10.139	74	38443	0.93	99
27) Palmitoleic Acid-ME [redacted] 7/30/14	11.165	55	55557	3.21	98
28) Hexadecanoic Acid-ME	11.455	74	281143	6.69	99
29) Heptadecanoic Acid-ME	12.947	74	63364	1.56	98
30) Linoleic Acid-ME	14.056	67	91355	6.41	98
31) Linolenic/Oleic Acid-MEs	14.170	55	199319m	14.03	
32) Elaidic Acid-ME	14.263	55	26415m	1.33	
33) Octadecanoic Acid-ME	14.595	74	132402	3.22	97
34) cis-11-Eicosanoic Acid-ME	17.621	55	17152m	0.89	
35) Eicosanoic Acid-ME	18.046	74	32979	0.89	98
36) Erucic Acid-ME	20.222	55	12663m	0.86	
37) Docosanoic Acid-ME	20.502	74	24121	0.84	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]06242014_Run\
Data File : 062514_008.D
Acq On : 25 Jun 2014 4:11 pm
Operator [redacted]
Sample : CCV Std
Misc : CCV Standard 4 (6/25/14)
ALS Vial : 88 Sample Multiplier: 1

Quant Time: Jun 26 15:03:01 2014
Quant Method : C:\msdchem\1\METHODS[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581_[redacted]atty Acids_&_MCHM
QLast Update : Mon Jun [redacted] 11:10:12 2014
Response via : Initial Calibration



[redacted]RP1581_Fatty Acids.M Thu Jun 26 15:03:18 2014 Page: 2

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]06242014_Run\
Data File : 062514_009.D
Acq On : 25 Jun 2014 4:47 pm
Operator [redacted]
Sample : SS #2 Std
Misc : SS #2 Std (6/25/14)
ALS Vial : 89 Sample Multiplier: 1

Quant Time: Jun 26 15:07:28 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

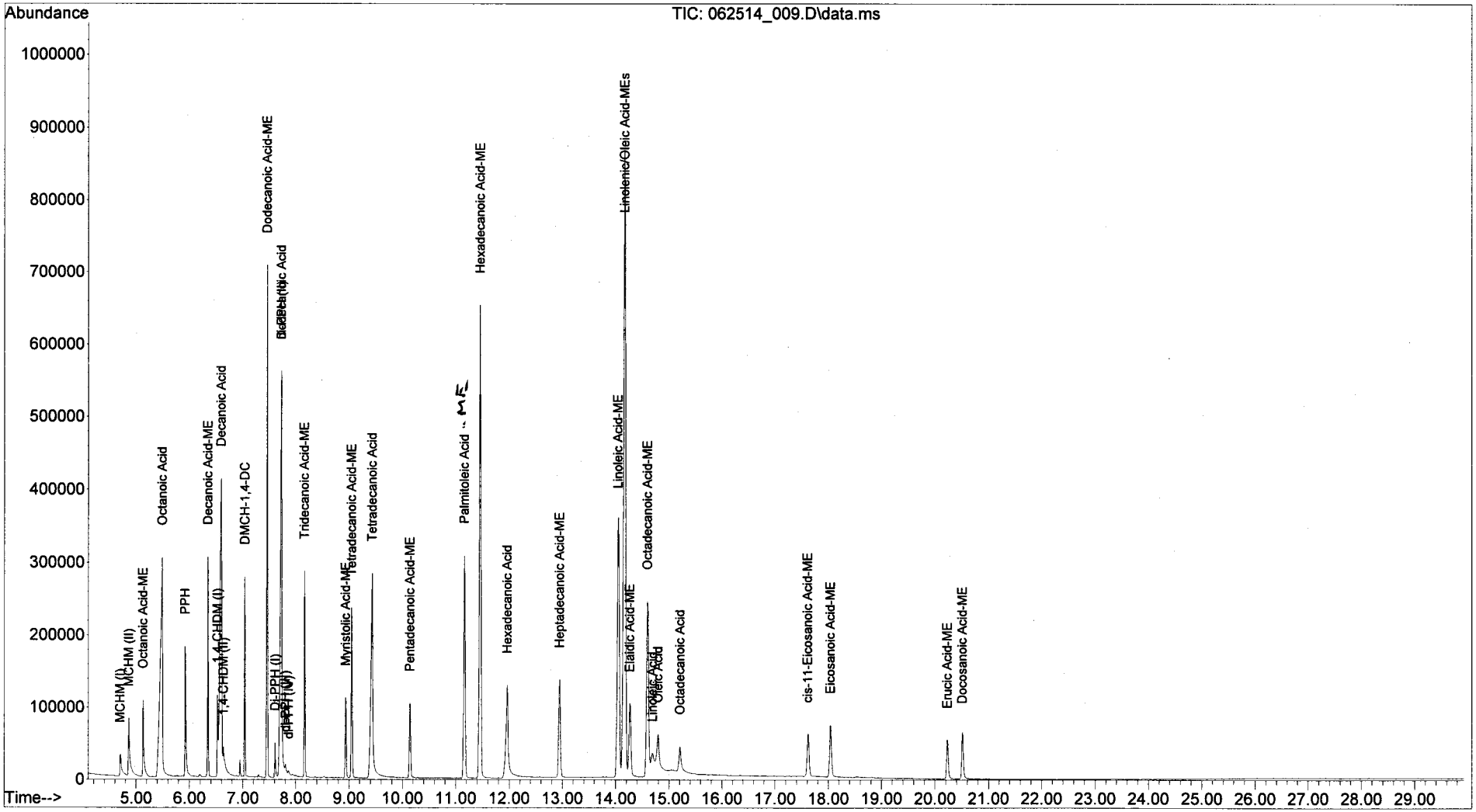
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)	Qvalue
Target Compounds						
1) Octanoic Acid	5.496	60	202480	10.27		99
2) Decanoic Acid	6.595	60	158024	10.37		98
3) Dodecanoic Acid	7.735	60	124765	10.32		99
4) Tetradecanoic Acid	9.434	60	75867	9.57		98
5) Hexadecanoic Acid	11.963	73	36224m	8.14		
6) Linoleic Acid	14.688	67	9911m	8.17		
7) Oleic Acid	14.792	55	23801m	8.58		
8) Octadecanoic Acid	15.206	60	10809m	8.11		
9) Eicosanoic Acid	0.000		0	N.D. d		
10) MCHM (I)	4.698	55	21483	2.16	#	92
11) MCHM (II)	4.864	55	46962m	2.27		
12) PPH	5.921	94	75755	2.03		96
13) 1,4-CHDM (I)	6.522	95	30259m	1.88		
14) 1,4-CHDM (II)	6.636	95	11493m	2.07		
15) DMCH-1,4-DC	7.040	81	45979	2.21		93
16) Di-PPH (I)	7.610	59	12725	1.95		98
17) di-PPH (II)	7.735	94	10502m	2.07		
18) di-PPH (III)	7.807	94	818m	1.86		
19) di-PPH (IV)	7.869	94	636m	2.18		
20) Octanoic Acid-ME	5.134	74	38387	0.96		99
21) Decanoic Acid-ME	6.346	74	67006	1.58		98
22) Dodecanoic Acid-ME	7.465	74	140533	3.37		99
23) Tridecanoic Acid-ME	8.170	74	68949	1.63		99
24) Myristolic Acid-ME	8.937	55	18252	0.93		96
25) Tetradecanoic Acid-ME	9.051	74	68412	1.61		98
26) Pentadecanoic Acid-ME	10.139	74	37533	0.91		99
27) Palmitoleic Acid-ME [redacted] 7/25/14	11.165	55	54421	3.15		97
28) Hexadecanoic Acid-ME	11.455	74	270148	6.43		99
29) Heptadecanoic Acid-ME	12.947	74	61323	1.51		98
30) Linoleic Acid-ME	14.046	67	87246	6.14		98
31) Linolenic/Oleic Acid-MEs	14.170	55	184489	12.97		98
32) Elaidic Acid-ME	14.263	55	25586m	1.29		
33) Octadecanoic Acid-ME	14.595	74	126991	3.09		97
34) cis-11-Eicosanoic Acid-ME	17.611	55	16169m	0.85		
35) Eicosanoic Acid-ME	18.036	74	31825	0.86		100
36) Erucic Acid-ME	20.222	55	12052m	0.83		
37) Docosanoic Acid-ME	20.502	74	23593	0.83		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\(b) (7) 06242014_Run\
Data File : 062514_009.D
Acq On : 25 Jun 2014 4:47 pm
Operator (b) (7)(C)
Sample : SS #2 Std
Misc : SS #2 Std (6/25/14)
ALS Vial : 89 Sample Multiplier: 1

Quant Time: Jun 26 15:07:28 2014
Quant Method : C:\msdchem\1\METHODS\(b) (7) RP1581_Fatty Acids.M
Quant Title : RP1581_(b) (7) Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\[redacted]_06242014_Run\
Data File : 062514_010.D
Acq On : 25 Jun 2014 5:23 pm
Operator [redacted]
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 90 Sample Multiplier: 1

Quant Time: Jun 26 15:08:55 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

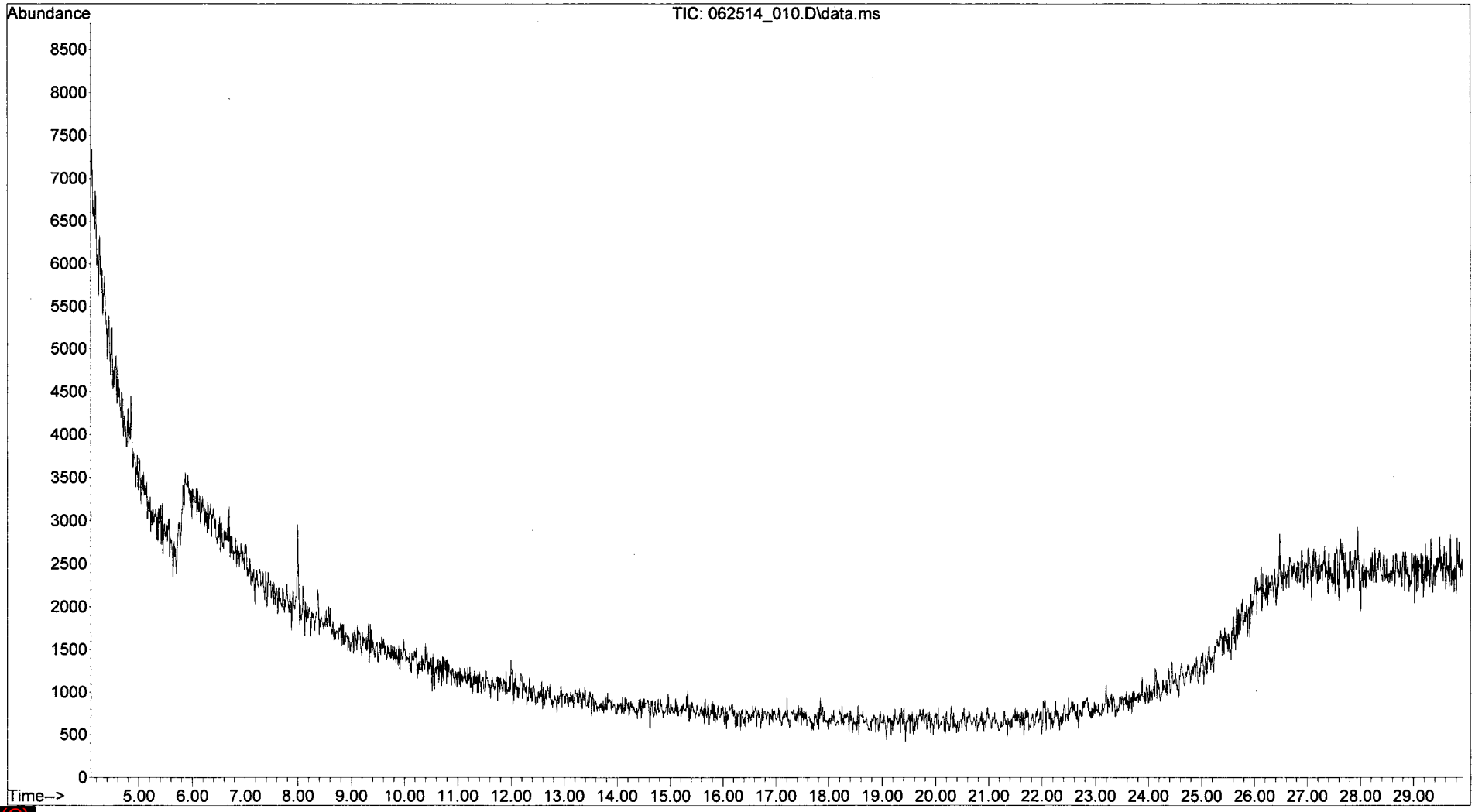
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	0.000		0	N.D.	
2) Decanoic Acid	0.000		0	N.D.	
3) Dodecanoic Acid	0.000		0	N.D.	
4) Tetradecanoic Acid	0.000		0	N.D.	
5) Hexadecanoic Acid	0.000		0	N.D.	
6) Linoleic Acid	0.000		0	N.D.	
7) Oleic Acid	0.000		0	N.D.	
8) Octadecanoic Acid	0.000		0	N.D.	
9) Eicosanoic Acid	0.000		0	N.D.	
10) MCHM (I)	0.000		0	N.D. d	
11) MCHM (II)	0.000		0	N.D. d	
12) PPH	0.000		0	N.D.	
13) 1,4-CHDM (I)	0.000		0	N.D.	
14) 1,4-CHDM (II)	0.000		0	N.D.	
15) DMCH-1,4-DC	0.000		0	N.D.	
16) Di-PPH (I)	0.000		0	N.D.	
17) di-PPH (II)	0.000		0	N.D.	
18) di-PPH (III)	0.000		0	N.D.	
19) di-PPH (IV)	0.000		0	N.D.	
20) Octanoic Acid-ME	0.000		0	N.D.	
21) Decanoic Acid-ME	0.000		0	N.D.	
22) Dodecanoic Acid-ME	0.000		0	N.D.	
23) Tridecanoic Acid-ME	0.000		0	N.D.	
24) Myristolic Acid-ME	0.000		0	N.D.	
25) Tetradecanoic Acid-ME	0.000		0	N.D.	
26) Pentadecanoic Acid-ME	0.000		0	N.D.	
27) Palmitoleic Acid-ME [redacted] 7/25/14	0.000		0	N.D.	
28) Hexadecanoic Acid-ME	0.000		0	N.D.	
29) Heptadecanoic Acid-ME	0.000		0	N.D.	
30) Linoleic Acid-ME	0.000		0	N.D.	
31) Linolenic/Oleic Acid-MEs	0.000		0	N.D.	
32) Elaidic Acid-ME	0.000		0	N.D.	
33) Octadecanoic Acid-ME	0.000		0	N.D.	
34) cis-11-Eicosanoic Acid-ME	0.000		0	N.D. d	
35) Eicosanoic Acid-ME	0.000		0	N.D.	
36) Erucic Acid-ME	0.000		0	N.D. d	
37) Docosanoic Acid-ME	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP158[redacted]_06242014_Run\
Data File : 062514_010.D
Acq On : 25 Jun 2014 5:23 pm
Operator [redacted]
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 90 Sample Multiplier: 1

Quant Time: Jun 26 15:08:55 2014
Quant Method : C:\msdchem\1\METHODS[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581_[redacted]Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\[redacted] 06242014_Run\
Data File : 062514_011.D
Acq On : 25 Jun 2014 5:59 pm
Operator : [redacted]
Sample : CCV Std
Misc : CCV Standard 4 (6/25/14)
ALS Vial : 91 Sample Multiplier: 1

Quant Time: Jun 26 15:16:43 2014
Quant Method : C:\msdchem\1\METHODS\[redacted] RP1581_Fatty Acids.M
Quant Title : RP1581[redacted] Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

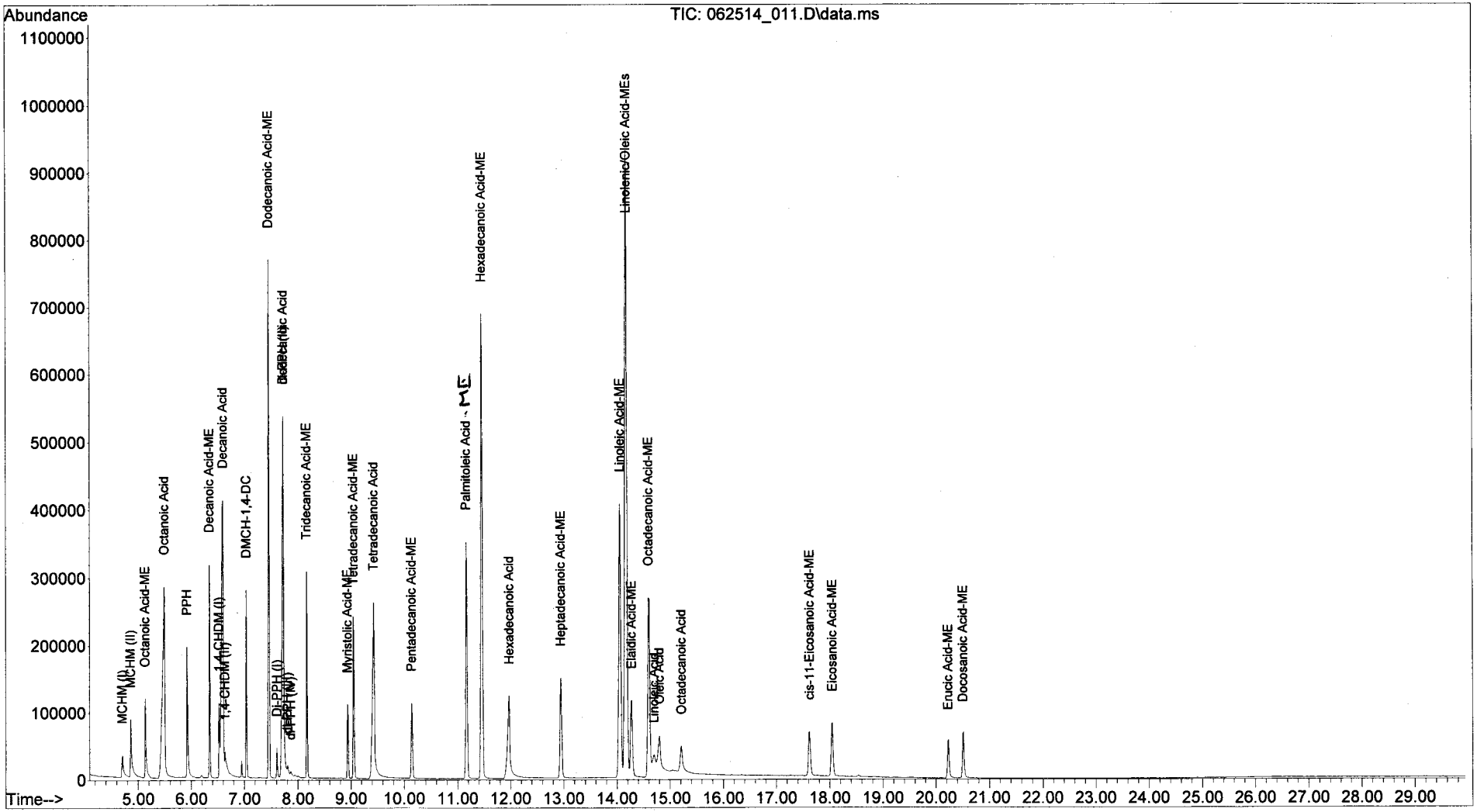
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	5.496	60	188434	9.68	98
2) Decanoic Acid	6.605	60	161884	10.59	98
3) Dodecanoic Acid	7.735	60	117775	9.87	99
4) Tetradecanoic Acid	9.434	60	72794	9.31	98
5) Hexadecanoic Acid	11.973	73	38494	8.38	91
6) Linoleic Acid	14.699	67	10442m	8.32	
7) Oleic Acid	14.802	55	25205m	8.86	
8) Octadecanoic Acid	15.217	60	13424m	9.16	
9) Eicosanoic Acid	0.000		0	N.D. d	
10) MCHM (I)	4.709	55	19872	2.01	# 94
11) MCHM (II)	4.864	55	42679m	2.07	
12) PPH	5.921	94	78939	2.11	96
13) 1,4-CHDM (I)	6.522	95	30727m	1.91	
14) 1,4-CHDM (II)	6.636	95	11319m	2.04	
15) DMCH-1,4-DC	7.040	81	46138	2.21	92
16) Di-PPH (I)	7.610	59	12645	1.94	94
17) di-PPH (II)	7.735	94	10702m	2.11	
18) di-PPH (III)	7.807	94	1122m	2.39	
19) di-PPH (IV)	7.869	94	583m	1.98	
20) Octanoic Acid-ME	5.133	74	40606	1.01	98
21) Decanoic Acid-ME	6.346	74	71605	1.68	98
22) Dodecanoic Acid-ME	7.465	74	152498	3.66	98
23) Tridecanoic Acid-ME	8.170	74	74548	1.76	99
24) Myristolic Acid-ME	8.937	55	19862	1.00	95
25) Tetradecanoic Acid-ME	9.051	74	72651	1.70	98
26) Pentadecanoic Acid-ME	10.139	74	40758	0.98	99
27) Palmitoleic Acid-ME DJ 7/25/14	11.165	55	59269	3.41	98
28) Hexadecanoic Acid-ME	11.455	74	295315	7.03	99
29) Heptadecanoic Acid-ME	12.947	74	66961	1.64	99
30) Linoleic Acid-ME	14.056	67	93282	6.53	97
31) Linolenic/Oleic Acid-MEs	14.180	55	200808	14.13	99
32) Elaidic Acid-ME	14.274	55	28197m	1.41	
33) Octadecanoic Acid-ME	14.595	74	140522	3.41	97
34) cis-11-Eicosanoic Acid-ME	17.621	55	18743m	0.96	
35) Eicosanoic Acid-ME	18.046	74	35943	0.96	100
36) Erucic Acid-ME	20.222	55	12874m	0.87	
37) Docosanoic Acid-ME	20.502	74	25919	0.89	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\(b) (7)(C) 06242014_Run\
Data File : 062514_011.D
Acq On : 25 Jun 2014 5:59 pm
Operator (b) (7)(C)
Sample : CCV Std
Misc : CCV Standard 4 (6/25/14)
ALS Vial : 91 Sample Multiplier: 1

Quant Time: Jun 26 15:16:43 2014
Quant Method : C:\msdchem\1\METHODS(b) (7)(C) RP1581_Fatty Acids.M
Quant Title : RP1581_(b) (7)(C) Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]06242014_Run\
Data File : 062514_012.D
Acq On : 25 Jun 2014 6:35 pm
Operator : [redacted]
Sample : SS #2 Std
Misc : SS #2 Std (6/25/14)
ALS Vial : 92 Sample Multiplier: 1

Quant Time: Jun 26 15:28:48 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

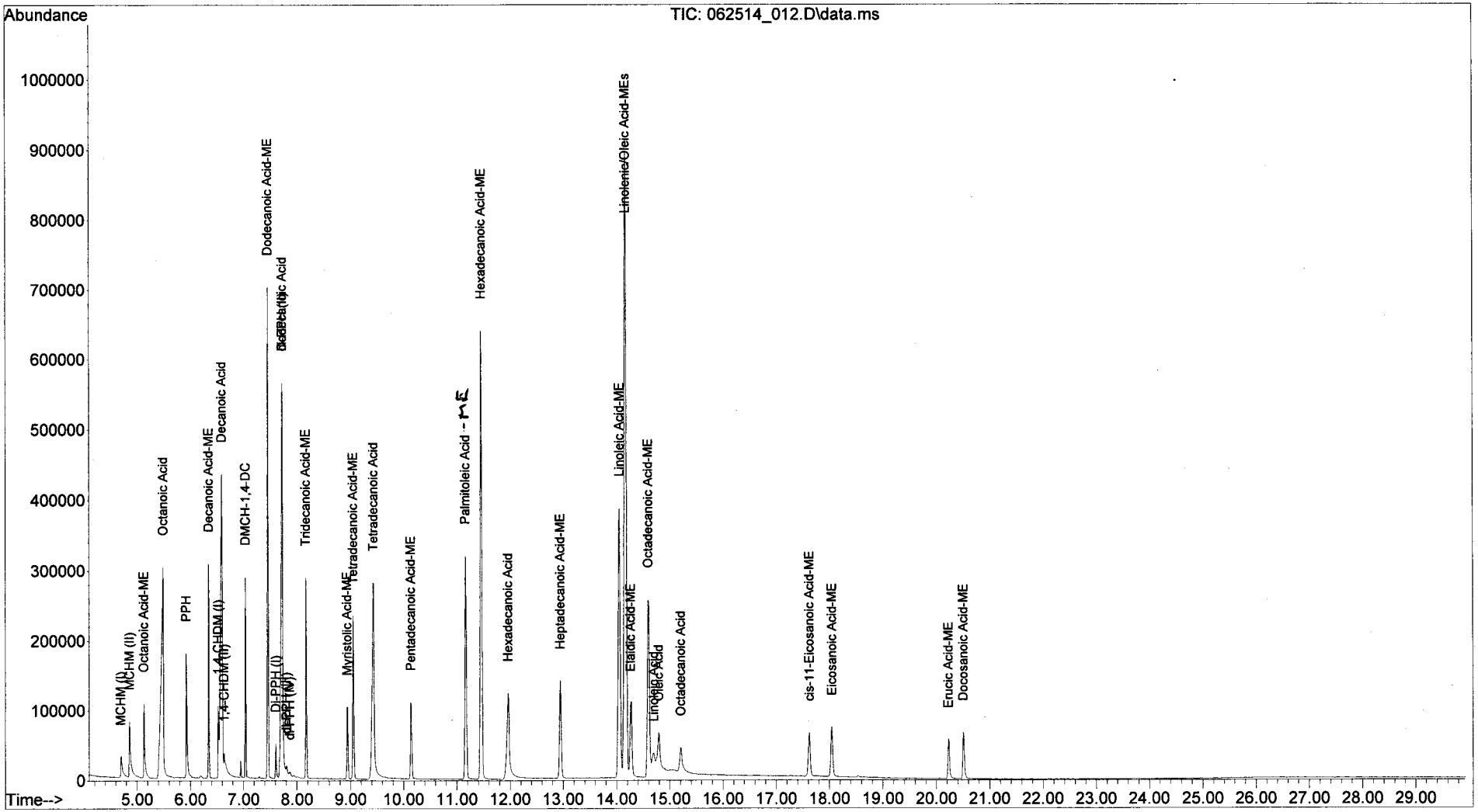
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	5.496	60	201284	10.22	99
2) Decanoic Acid	6.595	60	158520	10.40	97
3) Dodecanoic Acid	7.735	60	123139	10.22	100
4) Tetradecanoic Acid	9.434	60	76207	9.60	98
5) Hexadecanoic Acid	11.963	73	37867m	8.32	
6) Linoleic Acid	14.699	67	10736m	8.40	
7) Oleic Acid	14.792	55	23683m	8.56	
8) Octadecanoic Acid	15.206	60	11244m	8.29	
9) Eicosanoic Acid	0.000		0	N.D. d	
10) MCHM (I)	4.698	55	22129	2.22	# 93
11) MCHM (II)	4.864	55	46683m	2.26	
12) PPH	5.921	94	75362	2.02	96
13) 1,4-CHDM (I)	6.522	95	29241m	1.82	
14) 1,4-CHDM (II)	6.636	95	11045m	1.99	
15) DMCH-1,4-DC	7.040	81	45836	2.20	94
16) Di-PPH (I)	7.610	59	13708	2.07	94
17) di-PPH (II)	7.735	94	11094m	2.18	
18) di-PPH (III)	7.807	94	1102m	2.36	
19) di-PPH (IV)	7.869	94	702m	2.42	
20) Octanoic Acid-ME	5.133	74	38393	0.96	97
21) Decanoic Acid-ME	6.346	74	66952	1.58	98
22) Dodecanoic Acid-ME	7.465	74	141114	3.38	98
23) Tridecanoic Acid-ME	8.170	74	67891	1.61	99
24) Myristolic Acid-ME	8.937	55	18209	0.93	98
25) Tetradecanoic Acid-ME	9.051	74	69195	1.62	97
26) Pentadecanoic Acid-ME	10.139	74	38993	0.94	100
27) Palmitoleic Acid-ME DH 7/25/14	11.165	55	55483	3.21	98
28) Hexadecanoic Acid-ME	11.455	74	272046	6.48	99
29) Heptadecanoic Acid-ME	12.947	74	60723	1.50	97
30) Linoleic Acid-ME	14.056	67	89685	6.30	97
31) Linolenic/Oleic Acid-MEs	14.170	55	185845	13.07	98
32) Elaidic Acid-ME	14.263	55	25671m	1.29	
33) Octadecanoic Acid-ME	14.595	74	131883	3.20	98
34) cis-11-Eicosanoic Acid-ME	17.621	55	17239m	0.89	
35) Eicosanoic Acid-ME	18.046	74	32155	0.87	99
36) Erucic Acid-ME	20.222	55	12122m	0.83	
37) Docosanoic Acid-ME	20.502	74	24310	0.85	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]_06242014_Run\
Data File : 062514_012.D
Acq On : 25 Jun 2014 6:35 pm
Operator : [redacted]
Sample : SS #2 Std
Misc : SS #2 Std (6/25/14)
ALS Vial : 92 Sample Multiplier: 1

Quant Time: Jun 26 15:28:48 2014
Quant Method : C:\msdchem\1\METHODS[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\[redacted]6242014_Run\
Data File : 062514_013.D
Acq On : 25 Jun 2014 7:11 pm
Operator [redacted]
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 90 Sample Multiplier: 1

Quant Time: Jun 26 15:30:22 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]_Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration

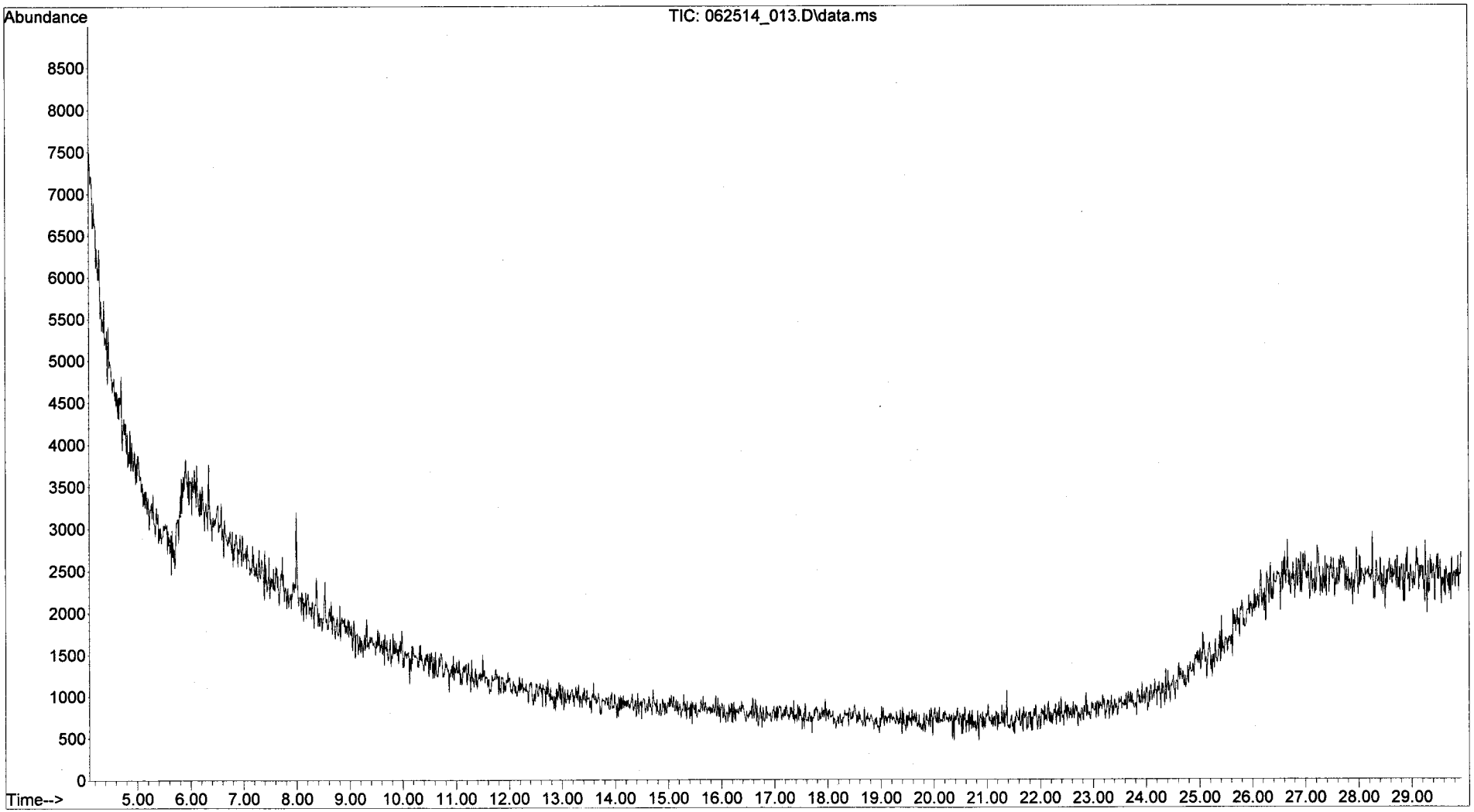
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	0.000		0	N.D.	
2) Decanoic Acid	0.000		0	N.D.	
3) Dodecanoic Acid	0.000		0	N.D.	
4) Tetradecanoic Acid	0.000		0	N.D.	
5) Hexadecanoic Acid	0.000		0	N.D. d	
6) Linoleic Acid	0.000		0	N.D.	
7) Oleic Acid	0.000		0	N.D. d	
8) Octadecanoic Acid	0.000		0	N.D.	
9) Eicosanoic Acid	0.000		0	N.D.	
10) MCHM (I)	0.000		0	N.D. d	
11) MCHM (II)	0.000		0	N.D.	
12) PPH	0.000		0	N.D.	
13) 1,4-CHDM (I)	0.000		0	N.D.	
14) 1,4-CHDM (II)	0.000		0	N.D.	
15) DMCH-1,4-DC	0.000		0	N.D.	
16) Di-PPH (I)	0.000		0	N.D.	
17) di-PPH (II)	0.000		0	N.D.	
18) di-PPH (III)	0.000		0	N.D.	
19) di-PPH (IV)	0.000		0	N.D.	
20) Octanoic Acid-ME	0.000		0	N.D.	
21) Decanoic Acid-ME	0.000		0	N.D.	
22) Dodecanoic Acid-ME	0.000		0	N.D.	
23) Tridecanoic Acid-ME	0.000		0	N.D.	
24) Myristolic Acid-ME	0.000		0	N.D.	
25) Tetradecanoic Acid-ME	0.000		0	N.D.	
26) Pentadecanoic Acid-ME	0.000		0	N.D.	
27) Palmitoleic Acid-ME DH, 7/25/14	0.000		0	N.D.	
28) Hexadecanoic Acid-ME	0.000		0	N.D.	
29) Heptadecanoic Acid-ME	0.000		0	N.D.	
30) Linoleic Acid-ME	0.000		0	N.D.	
31) Linolenic/Oleic Acid-MEs	0.000		0	N.D.	
32) Elaidic Acid-ME	0.000		0	N.D.	
33) Octadecanoic Acid-ME	0.000		0	N.D.	
34) cis-11-Eicosanoic Acid-ME	0.000		0	N.D. d	
35) Eicosanoic Acid-ME	0.000		0	N.D.	
36) Erucic Acid-ME	0.000		0	N.D.	
37) Docosanoic Acid-ME	0.000		0	N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581(b) (7) _06242014_Run\
Data File : 062514_013.D
Acq On : 25 Jun 2014 7:11 pm
Operator : (b) (7)
Sample : CH2Cl2 Blank
Misc : Injection Blank
ALS Vial : 90 Sample Multiplier: 1

Quant Time: Jun 26 15:30:22 2014
Quant Method : C:\msdchem\1\METHODS(b) (7) _RP1581_Fatty Acids.M
Quant Title : RP1581(b) (7) Fatty Acids_&_MCHM
QLast Update : Mon Jun 23 11:10:12 2014
Response via : Initial Calibration



Second Source Evaluation Run Date: 6/20/14

RP1581: Freedom Industries

Second Source (SS) Mix	Analyte		SS Mix Preparation: $[Analyte]_{Stk}$ (ug/mL)	Stk Sol'n Aliquot (uL)	$[Analyte]_{SS\ Mix}$ (ug/mL)	SS Standard Preparation: Aliquot from SS Mix (uL)	$[Analyte]_{SS\ Std}$ (ug/mL)	SS Std Inj #1: $[Analyte]_{obs}$ (ug/mL)	% of Target	SS Std Inj #2: $[Analyte]_{obs}$ (ug/mL)	% of Target	SS Std Inj #3: $[Analyte]_{obs}$ (ug/mL)	% of Target	% of Target: mean	s	rsd
Fatty Acid stocks prepared in a 30% THF in IPA sol'n (see p. 61489-61491)	Octanoic Acid		6094	16.5	101	100	10.1	11.33	113%	11.38	113%	11.96	119%	115%	3.5%	3.0%
	Decanoic Acid		9957	10.0	99.6		10.0	12.16	122%	12.14	122%	12.22	123%	122%	0.42%	0.34%
	Dodecanoic Acid		5949	17.0	101		10.1	10.88	108%	11.07	109%	11.33	112%	110%	2.2%	2.0%
	Tetradecanoic Acid (a.ka. Myristic)		5028	20.0	101		10.1	11.02	110%	11.21	111%	11.61	115%	112%	3.0%	2.7%
	Hexadecanoic Acid (a.k.a. Palmitic)		6487	15.5	101		10.1	9.76	97.1%	9.74	96.9%	9.72	96.7%	96.9%	0.20%	0.21%
	Linoleic Acid		5028	20.0	101		10.1	10.60	105.4%	11.16	111%	11.50	114%	110%	4.5%	4.1%
	Oleic Acid		4603	21.5	99.0		9.90	10.42	105.3%	10.99	111%	11.19	113%	110%	4.0%	3.7%
	Octadecanoic Acid (a.k.a. Stearic)		5495	18.0	98.9		9.89	9.17	92.7%	9.21	93.1%	8.68	87.8%	91.2%	3.0%	3.3%
	Eicosanoic Acid		6279	16.0	100		10.0	N.D.	------	N.D.	------	N.D.	------	-----	-----	-----
	CH_2Cl_2			845.5												
MCHM Product stocks prepared in MeOH (see p. 61467-61468)	*MCHM (I)*					20.0		*2.55*		*2.40*		*2.39*				
	MCHM (II)							*2.62*		*2.39*		*2.44*				
	Average MCHM		9945	10.0	99.45		1.99	2.59	130%	2.40	120%	2.42	121%	124%	5.2%	4.2%
	PPH		9932	10.0	99.32		1.99	2.49	125%	2.44	123%	2.50	126%	125%	1.6%	1.3%
	1,4-CHDM (I)							*2.82*		*2.60*		*2.53*				
	1,4-CHDM (II)							*2.36*		*2.27*		*2.42*				
	Average 1,4-CHDM		10000	10.0	100.0		2.00	2.59	130%	2.44	122%	2.48	124%	125%	4.0%	3.2%
	DM-1,4-DC		9948	10.0	99.48		1.99	2.53	127%	2.55	128%	2.52	127%	127%	0.77%	0.60%
	di-PPH (I)							*2.95*		*3.03*		*3.03*				
	di-PPH (II)							*2.89*		*2.86*		*2.92*				
	di-PPH (III)							*3.17*		*2.67*		*2.84*				
	di-PPH (IV)							*4.25*		*3.83*		*3.03*				
	Average di-PPH		10000	10.0	100.0		2.00	3.32	166%	3.10	155%	2.96	148%	156%	9.1%	5.8%
	30% THF in IPA			950												
FAMEs Mix (Supelco, Lot# LC00126) prepared in CH_2Cl_2. [FAME] (mg/mL): 10.0 (see p. 61491)	Octanoic acid methyl ester	1.9%	190	100.0	19.0	50.0	0.950	1.10	116%	1.09	115%	1.10	116%	115%	0.61%	0.53%
	Decanoic acid methyl ester	3.2%	320		32.0		1.60	1.85	116%	1.78	111%	1.82	114%	114%	2.2%	1.9%
	Dodecanoic acid methyl ester	6.4%	640		64.0		3.20	3.76	118%	3.74	117%	3.72	116%	117%	0.62%	0.53%
	Tridecanoic Acid methyl ester	3.2%	320		32.0		1.60	1.87	117%	1.84	115%	1.87	117%	116%	1.1%	0.93%
	Myristoleic Acid methyl ester (C14:1n9c)	1.9%	190		19.0		0.950	1.05	111%	1.04	109%	1.06	112%	111%	1.1%	0.95%
	Tetradecanoic acid methyl ester	3.2%	320		32.0		1.60	1.86	116%	1.81	113%	1.83	114%	115%	1.6%	1.4%
	Pentadecanoic Acid methyl ester	1.9%	190		19.0		0.950	1.02	107%	1.01	106%	1.03	108%	107%	1.1%	0.98%
	Palmitoleic Acid methyl ester (C16:1n9c)	6.4%	640		64.0		3.20	3.42	107%	3.44	108%	3.54	111%	108%	2.0%	1.9%
	Hexadecanoic acid methyl ester	13.0%	1300		130.0		6.50	7.29	112%	7.09	109%	7.22	111%	111%	1.6%	1.4%
	Heptadecanoic Acid methyl ester	3.2%	320		32.0		1.60	1.72	108%	1.69	106%	1.70	106%	106%	0.95%	0.90%
	Linoleic Acid methyl ester (C18:2n6c)	13.0%	1300		130.0		6.50	6.90	106%	6.73	104%	6.93	107%	105%	1.7%	1.6%
	Linolenic Acid methyl ester (C18:3n3)- 6.4% Oleic Acid methyl ester (C18:1n9c)- 19.6%	26.0%	2600		260.0		13.00	14.61	112%	14.18	109%	14.58	112%	111%	1.8%	1.7%
	Elaidic Acid methyl ester (C18:1n9t)	2.6%	260		26.0		1.30	1.33	102%	1.36	105%	1.38	106%	104%	1.9%	1.9%
	Octadecanoic acid methyl ester	6.5%	650		65.0		3.25	3.49	107%	3.40	105%	3.49	107%	106%	1.6%	1.5%
	cis-11-Eicosenoic Acid methyl ester (C20:1)	1.9%	190		19.0		0.950	0.95	100%	0.96	101%	0.94	98.9%	100%	1.1%	1.1%
	Eicosenoic Acid methyl ester	1.9%	190		19.0		0.950	0.97	102%	0.94	98.9%	0.97	102%	101%	1.8%	1.8%
	Erucic Acid methyl ester (C22:1n9)	1.9%	190		19.0		0.950	0.95	100%	0.92	96.8%	0.97	102%	99.6%	2.6%	2.7%
	Docosanoic Acid methyl ester	1.9%	190		19.0		0.950	0.95	100%	0.99	104%	0.99	104%	103%	2.4%	2.4%
	CH_2Cl_2			900.0		830										

Data Not Reported:

The resulting second source solution contained methanol (from the MCHM stock solutions) in addition to the 30% THF in IPA solution and CH_2Cl_2. This differed from the calibration and CCV solutions which contained only 30% THF in IPA solution and CH_2Cl_2.

Calculations:

$$[Analyte]_{SS\ Mix}\ (ug/mL) = \frac{[Analyte]_{Stk\ sol'n}\ (ug/mL) \times Stk\ Sol'n\ Aliquot\ (uL)}{Volume\ (uL)_{SS\ mix} = 1000}$$

$$[Analyte]_{SS\ Std}\ (ug/mL) = \frac{[Analyte]_{SS\ mix}\ (ug/mL) \times SS\ mix\ Aliquot\ (uL)}{Volume\ (uL)_{SS\ Std} = 1000}$$

For MCHM:

$$[MCHM]_{SS\ Mix}\ (ug/mL) = \frac{9945\ (ug/mL) \times 10.0\ uL}{1000\ uL} = 99.45\ ug/mL$$

$$[MCHM]_{SS\ Std}\ (ug/mL) = \frac{99.45\ (ug/mL) \times 20.0\ uL}{1000\ uL} = 1.99\ ug/mL$$

$$\%\ Target = \frac{[Analyte]_{obs}\ (ug/mL)}{[Analyte]_{SS\ std}\ (ug/mL)} \times 100\%$$

For Decanoic Acid ME:

$$[Decanoic\ Acid\ ME]_{SS\ Mix}\ (ug/mL) = \frac{(10{,}000\ ug/mL \times 3.2\%/100\%) \times 100\ uL}{1000\ uL} = 32.00\ ug/mL$$

$$[Decanoic\ Acid\ ME]_{SS\ Std}\ (ug/mL) = \frac{32.00\ (ug/mL) \times 50.0\ uL}{1000\ uL} = 1.60\ ug/mL$$

(b) (7) 6/26/14

File :Fatty Acid Sample Analysis.xlsx *Sheet* :Second Source Eval 6-20-14_NR

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\(b) [redacted] 062014 Run\
Data File : 062014_008.D
Acq On : 20 Jun 2014 5:22 pm
Operator (b) (7)(C) [redacted]
Sample : SS Std
Misc : Second Source
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 11:07:50 2014
Quant Method : C:\msdchem\1\METHODS\(b) (7) [redacted] RP1581_Fatty Acids.M
Quant Title : RP1581_(b) (7) [redacted] Fatty Acids_&_MCHM
QLast Update : Thu Jun 19 16:32:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	5.496	60	228038	11.33	100
2) Decanoic Acid	6.605	60	189480	12.16	95
3) Dodecanoic Acid	7.735	60	133426	10.88	96
4) Tetradecanoic Acid	9.434	60	93152	11.02	97
5) Hexadecanoic Acid	11.973	73	51174	9.76	98
6) Linoleic Acid	14.709	67	19272m	10.60	
7) Oleic Acid	14.813	55	33385m	10.42	
8) Octadecanoic Acid	15.217	60	13452m	9.17	
9) Eicosanoic Acid	0.000		0	N.D. d	
10) MCHM (I)	4.698	55	25651	2.55	97
11) MCHM (II)	4.864	55	54486m	2.62	
12) PPH	5.921	94	93651	2.49	96
13) 1,4-CHDM (I)	6.522	95	46086	2.82	99
14) 1,4-CHDM (II)	6.626	95	13233m	2.36	
15) DMCH-1,4-DC	7.040	81	52515	2.53	94
16) Di-PPH (I)	7.610	59	20718	2.95	94
17) di-PPH (II)	7.735	94	14815m	2.89	
18) di-PPH (III)	7.807	94	1567m	3.17	
19) di-PPH (IV)	7.859	94	1188	4.25 #	67
20) Octanoic Acid-ME	5.133	74	44049	1.10	99
21) Decanoic Acid-ME	6.346	74	79228	1.85	97
22) Dodecanoic Acid-ME	7.465	74	156635	3.76	97
23) Tridecanoic Acid-ME	8.170	74	79436	1.87	97
24) Myristolic Acid-ME	8.947	55	20787	1.05	99
25) Tetradecanoic Acid-ME	9.051	74	79715	1.86	98
26) Pentadecanoic Acid-ME	10.149	74	42259	1.02	98
27) Palmitoleic Acid	11.165	55	59369	3.42	98
28) Hexadecanoic Acid-ME	11.455	74	306522	7.29	99
29) Heptadecanoic Acid-ME	12.947	74	70581	1.72	99
30) Linoleic Acid-ME	14.056	67	98936	6.90	97
31) Linolenic/Oleic Acid-MEs	14.180	55	207511m	14.61	
32) Elaidic Acid-ME	14.274	55	26427m	1.33	
33) Octadecanoic Acid-ME	14.605	74	144054	3.49	96
34) cis-11-Eicosanoic Acid-ME	17.621	55	18651m	0.95	
35) Eicosanoic Acid-ME	18.046	74	36213	0.97	98
36) Erucic Acid-ME	20.232	55	14195m	0.95	
37) Docosanoic Acid-ME	20.512	74	27845	0.95	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

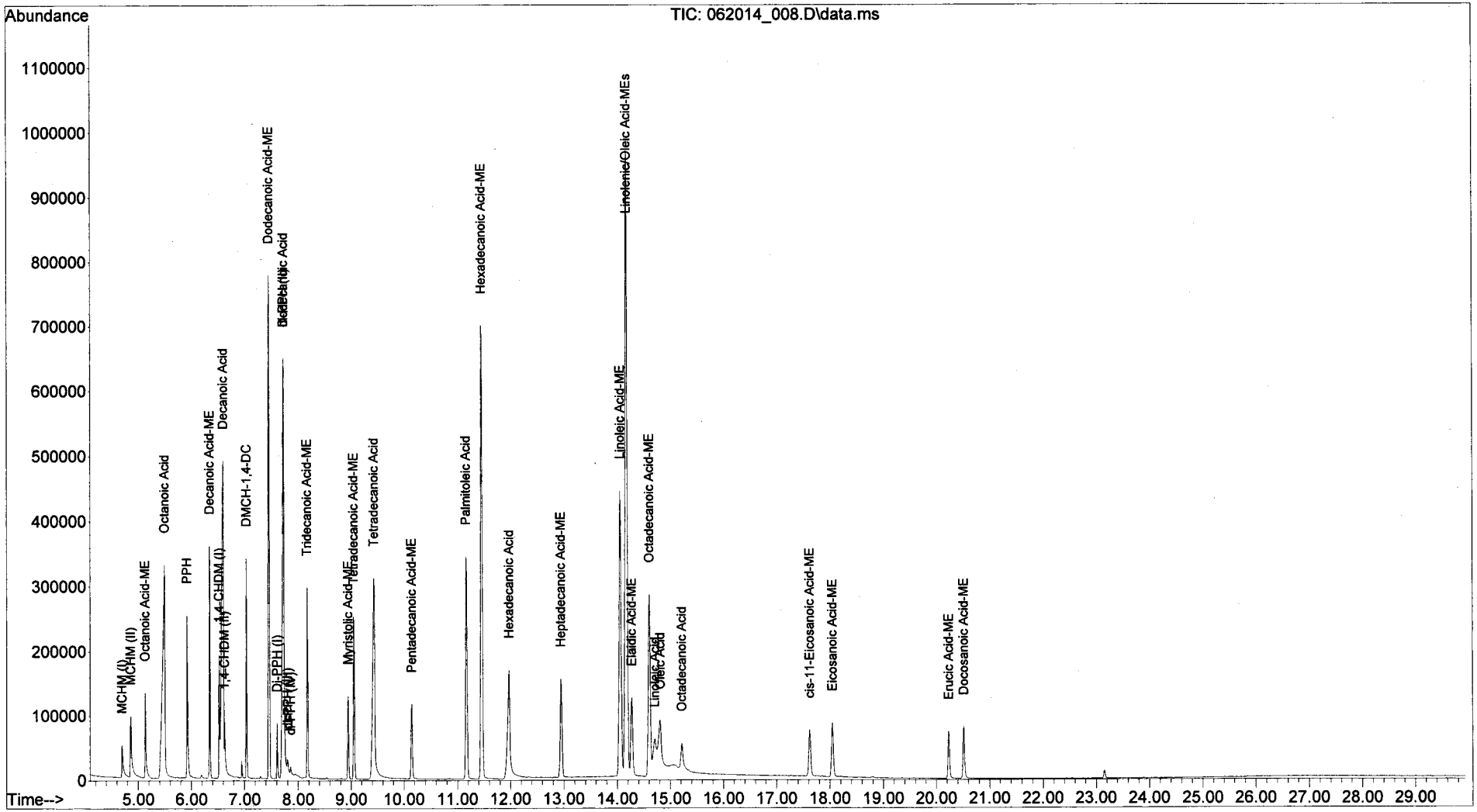
Data Not Reported 7/22/14

(b) (7) (C) [redacted]

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]_062014 Run\
Data File : 062014_008.D
Acq On : 20 Jun 2014 5:22 pm
Operator [redacted]
Sample : SS Std
Misc : Second Source
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 21 11:07:50 2014
Quant Method : C:\msdchem\1\METHODS[redacted]_RP1581_Fatty Acids.M
Quant Title : RP1581_[redacted]_Fatty Acids_&_MCHM
QLast Update : Thu Jun 19 16:32:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted] 062014 Run\
Data File : 062014_014.D
Acq On : 20 Jun 2014 9:44 pm
Operator [redacted]
Sample : SS Std
Misc : Second Source
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 21 11:48:07 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP158[redacted] Fatty Acids_&_MCHM
QLast Update : Thu Jun 19 16:32:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Target Compounds						Qvalue
1) Octanoic Acid	5.496	60	229098	11.38		98
2) Decanoic Acid	6.605	60	189124	12.14		96
3) Dodecanoic Acid	7.734	60	136355	11.07		98
4) Tetradecanoic Acid	9.434	60	95396	11.21		99
5) Hexadecanoic Acid	11.973	73	50948	9.74		94
6) Linoleic Acid	14.709	67	21637m	11.16		
7) Oleic Acid	14.802	55	36452m	10.99		
8) Octadecanoic Acid	15.217	60	13557m	9.21		
9) Eicosanoic Acid	0.000		0	N.D. d		
10) MCHM (I)	4.708	55	24033	2.40	#	95
11) MCHM (II)	4.864	55	49574	2.39		98
12) PPH	5.921	94	91723	2.44		96
13) 1,4-CHDM (I)	6.522	95	42397m	2.60		
14) 1,4-CHDM (II)	6.626	95	12739m	2.27		
15) DMCH-1,4-DC	7.040	81	52935	2.55		95
16) Di-PPH (I)	7.610	59	21349	3.03		97
17) di-PPH (II)	7.734	94	14638m	2.86		
18) di-PPH (III)	7.797	94	1278m	2.67		
19) di-PPH (IV)	7.859	94	1076	3.83	#	65
20) Octanoic Acid-ME	5.133	74	43982	1.09		100
21) Decanoic Acid-ME	6.346	74	76127	1.78		97
22) Dodecanoic Acid-ME	7.465	74	155829	3.74		97
23) Tridecanoic Acid-ME	8.170	74	77873	1.84		97
24) Myristolic Acid-ME	8.937	55	20735	1.04		97
25) Tetradecanoic Acid-ME	9.050	74	77532	1.81		99
26) Pentadecanoic Acid-ME	10.139	74	41965	1.01		99
27) Palmitoleic Acid	11.165	55	59770	3.44		99
28) Hexadecanoic Acid-ME	11.455	74	298104	7.09		99
29) Heptadecanoic Acid-ME	12.947	74	69255	1.69		99
30) Linoleic Acid-ME	14.056	67	96224	6.73		97
31) Linolenic/Oleic Acid-MEs	14.170	55	201457m	14.18		
32) Elaidic Acid-ME	14.273	55	27132m	1.36		
33) Octadecanoic Acid-ME	14.605	74	140218	3.40		95
34) cis-11-Eicosanoic Acid-ME	17.621	55	18761m	0.96		
35) Eicosanoic Acid-ME	18.046	74	35155	0.94		97
36) Erucic Acid-ME	20.222	55	13816	0.92		96
37) Docosanoic Acid-ME	20.512	74	29529	0.99		99

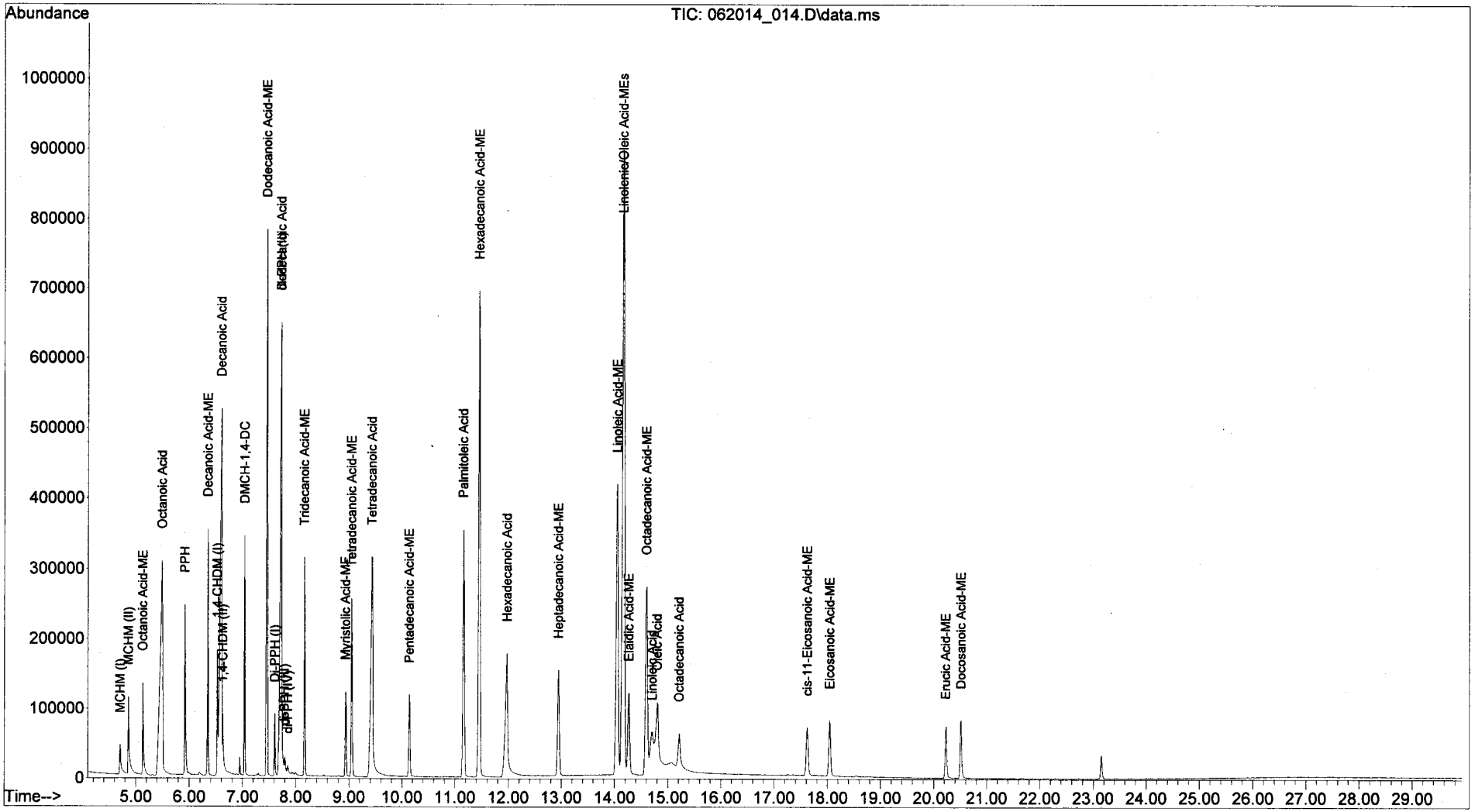
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Not Reported
[redacted]/25/14

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581[redacted]062014 Run\
Data File : 062014_014.D
Acq On : 20 Jun 2014 9:44 pm
Operator : [redacted]
Sample : SS Std
Misc : Second Source
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 21 11:48:07 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]_RP1581_Fatty Acids.M
Quant Title : RP1581[redacted]Fatty Acids_&_MCHM
QLast Update : Thu Jun 19 16:32:52 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\[redacted] 062014 Run\
Data File : 062014_02[redacted]
Acq On : 21 Jun 2014 1:20 am
Operator [redacted]
Sample : SS Std
Misc : Second Source
ALS Vial : 21 Sample Multiplier: 1

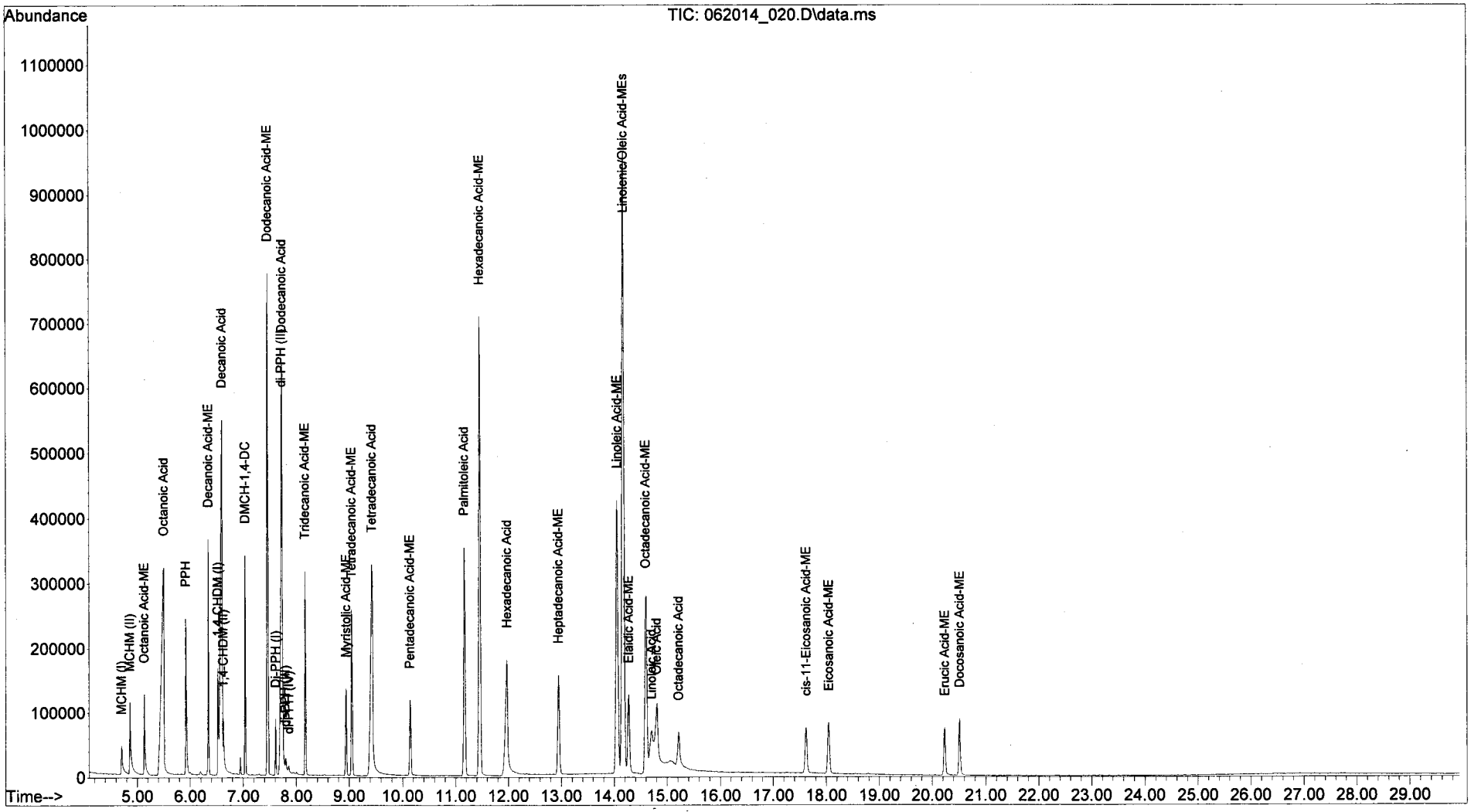
Quant Time: Jun 21 12:47:36 2014
Quant Method : C:\msdchem\1\METHODS\[redacted]RP1581_Fatty Acids.M
Quant Title : RP1581_[redacted]Fatty Acids_&_MCHM
QLast Update : Thu Jun 19 16:32:52 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Octanoic Acid	5.507	60	243164m	11.96	
2) Decanoic Acid	6.605	60	190460m	12.22	
3) Dodecanoic Acid	7.735	60	140484	11.33	98
4) Tetradecanoic Acid	9.434	60	100138	11.61	97
5) Hexadecanoic Acid	11.973	73	50774	9.72	94
6) Linoleic Acid	14.709	67	23100m	11.50	
7) Oleic Acid	14.802	55	37504m	11.19	
8) Octadecanoic Acid	15.217	60	12217m	8.68	
9) Eicosanoic Acid	0.000		0	N.D. d	
10) MCHM (I)	4.709	55	23974	2.39	97
11) MCHM (II)	4.864	55	50495	2.44	98
12) PPH	5.921	94	93842	2.50	96
13) 1,4-CHDM (I)	6.522	95	41257m	2.53	
14) 1,4-CHDM (II)	6.626	95	13588m	2.42	
15) DMCH-1,4-DC	7.040	81	52502	2.52	96
16) Di-PPH (I)	7.610	59	21386	3.03	95
17) di-PPH (II)	7.724	94	14965m	2.92	
18) di-PPH (III)	7.797	94	1377m	2.84	
19) di-PPH (IV)	7.859	94	864	3.03	93
20) Octanoic Acid-ME	5.133	74	44045	1.10	99
21) Decanoic Acid-ME	6.346	74	77867	1.82	98
22) Dodecanoic Acid-ME	7.465	74	155161	3.72	99
23) Tridecanoic Acid-ME	8.170	74	79150	1.87	98
24) Myristolic Acid-ME	8.947	55	21112	1.06	97
25) Tetradecanoic Acid-ME	9.051	74	78684	1.83	97
26) Pentadecanoic Acid-ME	10.139	74	42832	1.03	97
27) Palmitoleic Acid	11.165	55	61642	3.54	99
28) Hexadecanoic Acid-ME	11.455	74	303251	7.22	100
29) Heptadecanoic Acid-ME	12.947	74	69803	1.70	98
30) Linoleic Acid-ME	14.056	67	99394	6.93	97
31) Linolenic/Oleic Acid-MEs	14.180	55	207170m	14.58	
32) Elaidic Acid-ME	14.274	55	27521m	1.38	
33) Octadecanoic Acid-ME	14.595	74	144092	3.49	96
34) cis-11-Eicosanoic Acid-ME	17.621	55	18191m	0.94	
35) Eicosanoic Acid-ME	18.046	74	36092	0.97	97
36) Erucic Acid-ME	20.232	55	14667m	0.97	
37) Docosanoic Acid-ME	20.512	74	29526	0.99	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Not Reported 7/21/14
[redacted]

Quantitation Report (QT Reviewed)

Data Path : D:\RP1581\(b) (7)(C) 062014 Run\
Data File : 062014_020.D
Acq On : 21 Jun 2014 1:20 am
Operator (b) (7)(C)
Sample : SS Std
Misc : Second Source
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 21 12:47:36 2014
Quant Method : C:\msdchem\1\METHODS\(b) (7)(C) RP1581_Fatty Acids.M
Quant Title : RP1581(b) (7)(C) Fatty Acids_&_MCHM
QLast Update : Thu Jun 19 16:32:52 2014
Response via : Initial Calibration