

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021422\
 Data File : VX027018.D
 Acq On : 14 Feb 2022 17:03
 Operator : JC/MD
 Sample : N1486-06
 Misc : 5.00g/5.0mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 X3946

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/15/2022
 Supervised By : Mahesh Dadoda 02/16/2022

Quant Time: Feb 15 05:21:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML021422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 15 05:10:18 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.763	114	130196	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.061	117	116938	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	62519	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.374	65	44171	38.221	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	76.440%		
7) Chloroethane-d5	1.672	69	20120	27.133	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	54.260%#		
11) 1,1-Dichloroethene-d2	2.294	63	70305	31.727	ug/L	-0.02
Spiked Amount 50.000	Range 60 - 125		Recovery =	63.460%		
21) 2-Butanone-d5	4.489	46	52240	65.077	ug/L	0.03
Spiked Amount 100.000	Range 40 - 130		Recovery =	65.080%		
24) Chloroform-d	5.068	84	89930	41.438	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	82.880%		
26) 1,2-Dichloroethane-d4	5.958	65	58491	41.585	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	83.180%		
32) Benzene-d6	5.970	84	188256	44.689	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	89.380%		
36) 1,2-Dichloropropane-d6	7.306	67	56175	44.892	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	89.780%		
41) Toluene-d8	8.647	98	167917	43.566	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	87.140%		
43) trans-1,3-Dichloroprop...	8.952	79	21571	37.808	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	75.620%		
47) 2-Hexanone-d5	9.415	63	45918	84.879	ug/L	0.03
Spiked Amount 100.000	Range 45 - 130		Recovery =	84.880%		
56) 1,1,2,2-Tetrachloroeth...	11.201	84	62950	42.567	ug/L	0.01
Spiked Amount 50.000	Range 65 - 120		Recovery =	85.140%		
66) 1,2-Dichlorobenzene-d4	12.323	152	63097	44.430	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	88.860%		
Target Compounds						Qvalue
6) Bromomethane	1.618	94	464	0.987	ug/L	77
13) Acetone	2.410	43	144745	214.252	ug/L	99
15) Methyl Acetate	2.727	43	2209	2.117	ug/L	95
16) Methylene chloride	2.788	84	178262	178.652	ug/L	97
19) 1,1-Dichloroethane	3.605	63	246324	143.278	ug/L	98
20) cis-1,2-Dichloroethene	4.489	96	57406	54.274	ug/L	99
23) Bromochloromethane	4.904	128	80330	148.725	ug/L	98
25) Chloroform	5.099	83	49245	26.777	ug/L	99
27) 1,2-Dichloroethane	6.092	62	159812	112.349	ug/L	99
30) 1,1,1-Trichloroethane	5.385	97	98852	64.961	ug/L	99
31) Carbon tetrachloride	5.672	117	102389	75.850	ug/L	98
34) Trichloroethene	7.123	95	68661	63.527	ug/L	98
37) 1,2-Dichloropropane	7.434	63	67217	70.733	ug/L	100
40) 4-Methyl-2-pentanone	8.592	43	316568m	234.353	ug/L	
45) 1,1,2-Trichloroethane	9.159	97	126076	135.688	ug/L	99
46) Tetrachloroethene	9.275	164	108189	135.194	ug/L	99
48) 2-Hexanone	9.415	43	6595	6.030	ug/L #	71
49) Dibromochloromethane	9.525	129	146350	143.622	ug/L	99
50) 1,2-Dibromoethane	9.610	107	95694	98.104	ug/L	100

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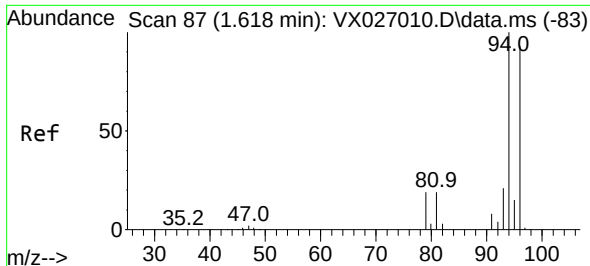
Manual Integrations
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Reviewed By : John Carlone 02/15/2022
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Quant Time: Feb 15 05:21:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML021422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 15 05:10:18 2022
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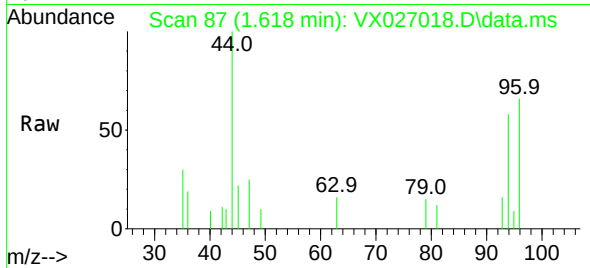
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.659	104	155525	55.802	ug/L	94
60) Isopropylbenzene	10.963	105	198666	43.982	ug/L	100
64) 1,3-Dichlorobenzene	11.975	146	80705	40.165	ug/L	99
65) 1,4-Dichlorobenzene	12.049	146	140911	69.688	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.945	75	22041	76.542	ug/L	91
69) 1,3,5-Trichlorobenzene	13.116	180	155905	112.908	ug/L	98
70) 1,2,4-trichlorobenzene	13.591	180	71327	58.509	ug/L	99
72) 1,2,3-Trichlorobenzene	13.963	180	1866	1.531	ug/L	92

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



#6
Bromomethane
Concen: 0.987 ug/L
RT: 1.618 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

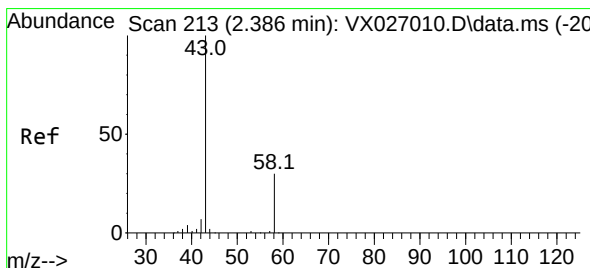
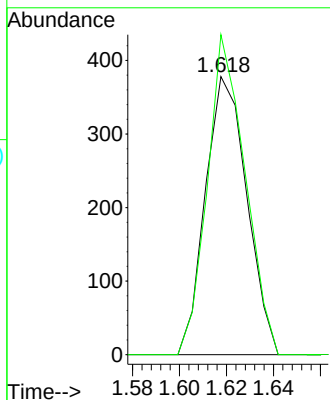
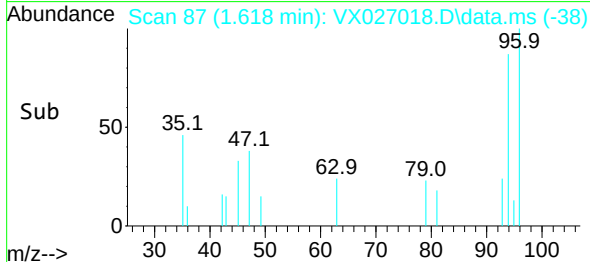
Instrument :
MSVOA_X
ClientSampleId :
X3946



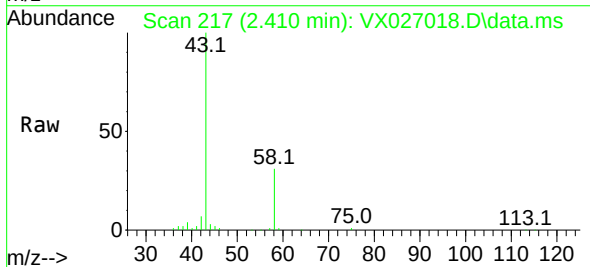
Tgt Ion: 94 Resp: 464
Ion Ratio Lower Upper
94 100
96 115.1 64.9 120.5

Manual Integrations
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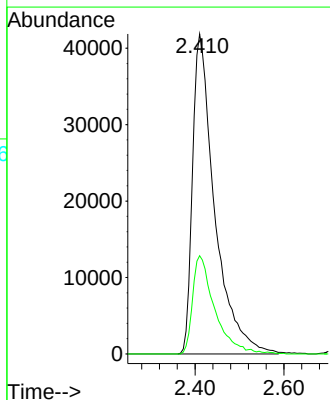
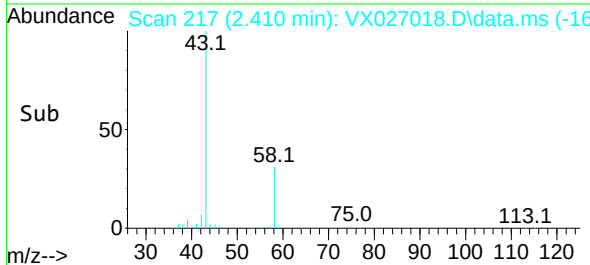
Reviewed By :John Carlone 02/15/2022
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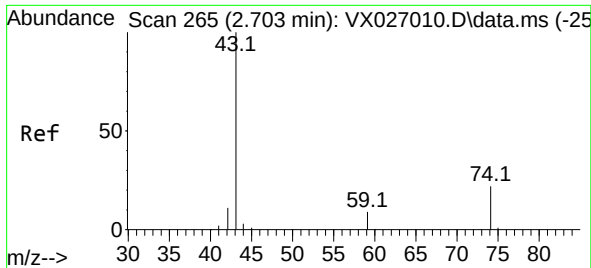


#13
Acetone
Concen: 214.252 ug/L
RT: 2.410 min Scan# 217
Delta R.T. 0.024 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03



Tgt Ion: 43 Resp: 144745
Ion Ratio Lower Upper
43 100
58 29.9 0.0 61.4





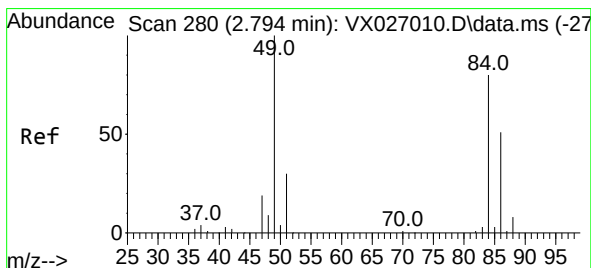
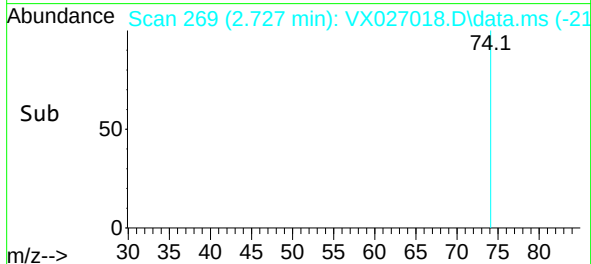
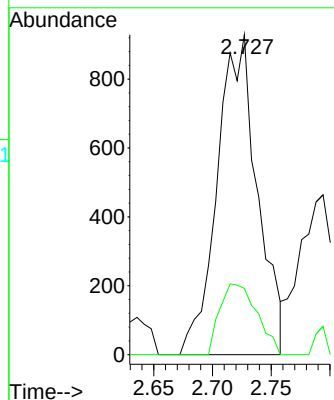
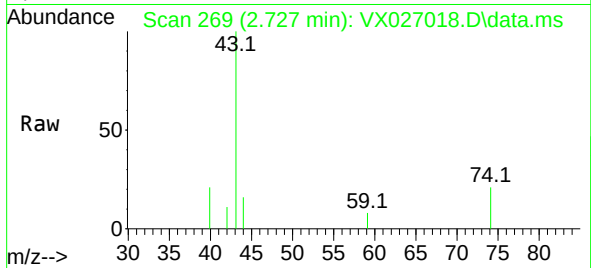
#15
Methyl Acetate
Concen: 2.117 ug/L
RT: 2.727 min Scan# 210
Delta R.T. 0.024 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

Instrument :
MSVOA_X
ClientSampleId :
X3946

Tgt Ion: 43 Resp: 2209
Ion Ratio Lower Upper
43 100
74 20.4 18.2 27.4

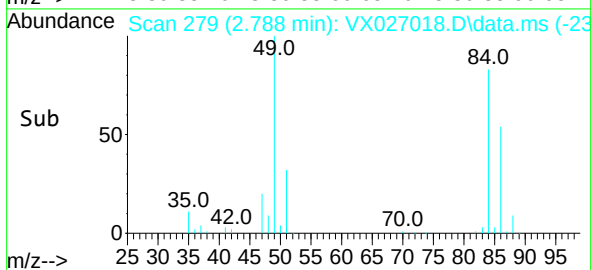
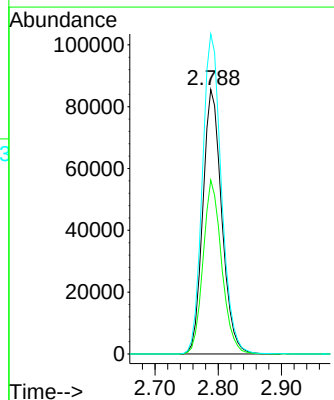
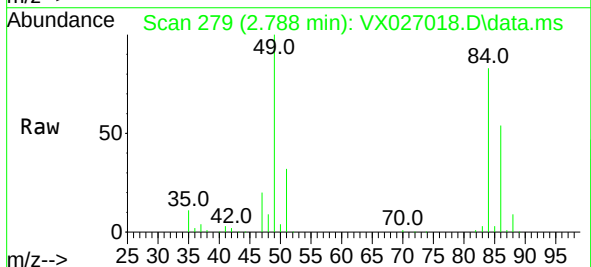
Manual Integrations
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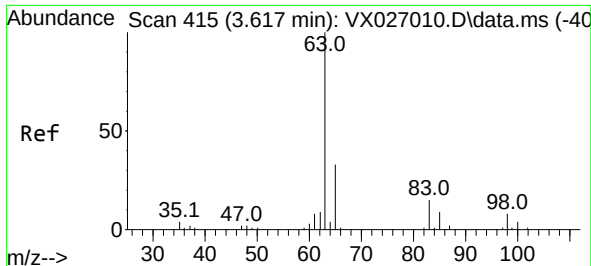
Reviewed By :John Carlone 02/15/2022
Supervised By :Mahesh Dadoda 02/16/2022



#16
Methylene chloride
Concen: 178.652 ug/L
RT: 2.788 min Scan# 279
Delta R.T. -0.006 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

Tgt Ion: 84 Resp: 178262
Ion Ratio Lower Upper
84 100
86 65.8 44.8 83.2
49 121.0 87.0 161.6





#19

1,1-Dichloroethane

Concen: 143.278 ug/L

RT: 3.605 min Scan# 41

Delta R.T. -0.012 min

Lab File: VX027018.D

Acq: 14 Feb 2022 17:03

Instrument :

MSVOA_X

ClientSampleId :

X3946

Tgt Ion: 63 Resp: 246324

Ion Ratio Lower Upper

63 100

65 31.7 22.9 42.5

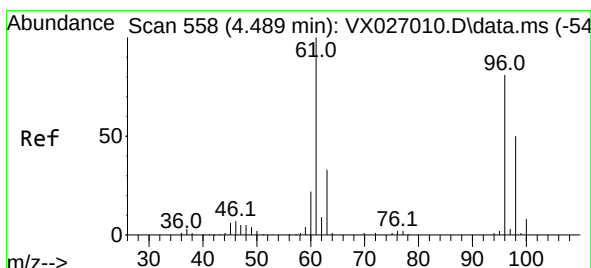
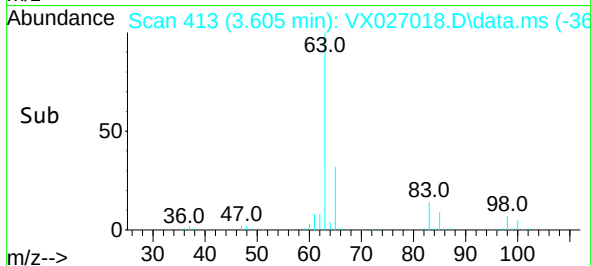
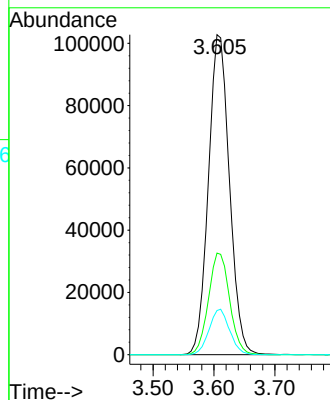
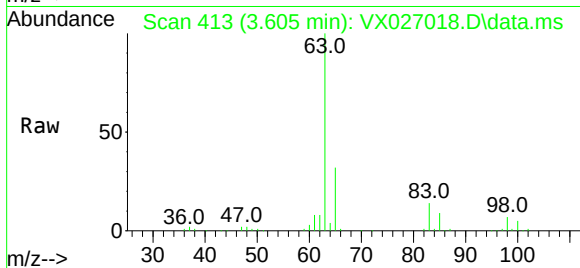
83 13.8 10.1 18.9

Manual Integrations

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Supervised By :Mahesh Dadoda 02/16/2022



#20

cis-1,2-Dichloroethene

Concen: 54.274 ug/L

RT: 4.489 min Scan# 558

Delta R.T. -0.000 min

Lab File: VX027018.D

Acq: 14 Feb 2022 17:03

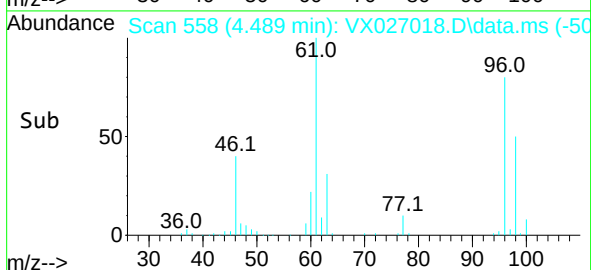
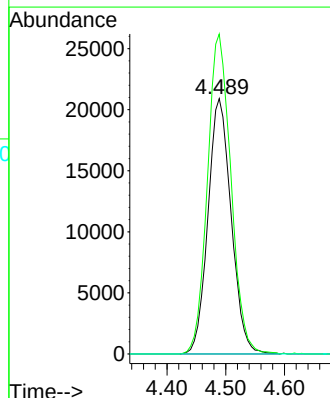
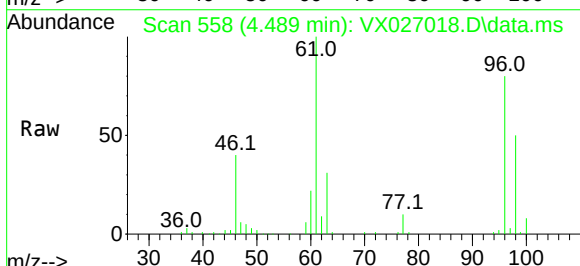
Tgt Ion: 96 Resp: 57406

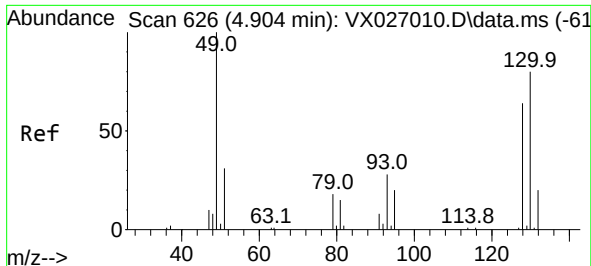
Ion Ratio Lower Upper

96 100

61 125.3 86.7 161.1

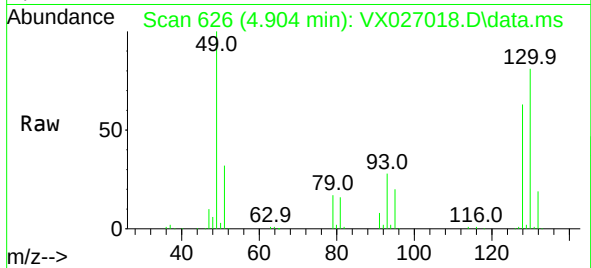
68 0.0 0.0 0.0





#23
Bromochloromethane
Concen: 148.725 ug/L
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

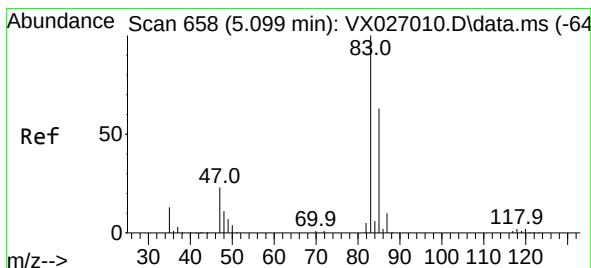
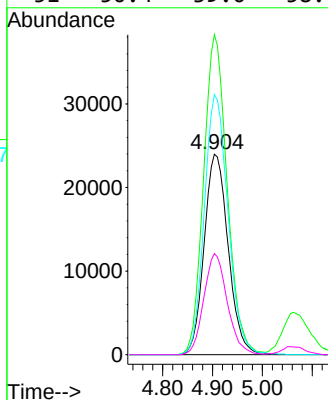
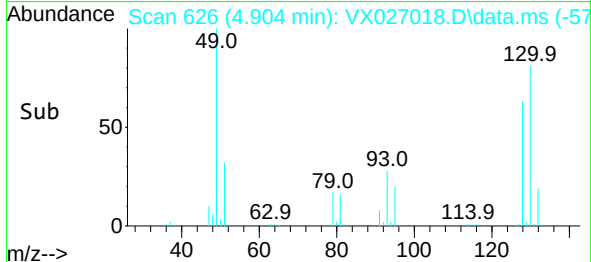
Instrument :
MSVOA_X
ClientSampleId :
X3946



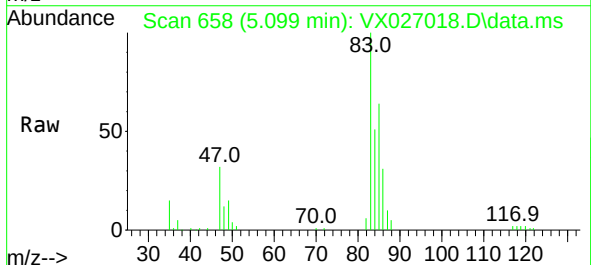
Tgt Ion:128 Resp: 80330
Ion Ratio Lower Upper
128 100
49 159.6 110.2 204.6
130 129.7 88.2 163.8
51 50.4 39.0 58.6

Manual Integrations
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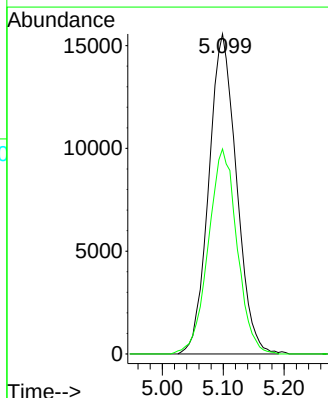
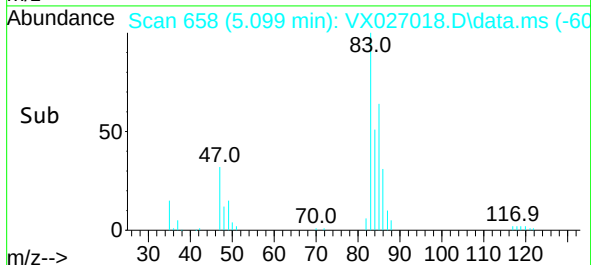
Reviewed By :John Carlone 02/15/2022
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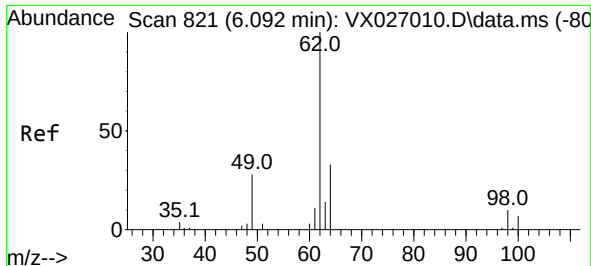


#25
Chloroform
Concen: 26.777 ug/L
RT: 5.099 min Scan# 658
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03



Tgt Ion: 83 Resp: 49245
Ion Ratio Lower Upper
83 100
85 64.1 44.2 82.2





#27

1,2-Dichloroethane

Concen: 112.349 ug/L

RT: 6.092 min Scan# 81

Delta R.T. -0.000 min

Lab File: VX027018.D

Acq: 14 Feb 2022 17:03

Instrument :

MSVOA_X

ClientSampleId :

X3946

Tgt Ion: 62 Resp: 15981

Ion Ratio Lower Upper

62 100

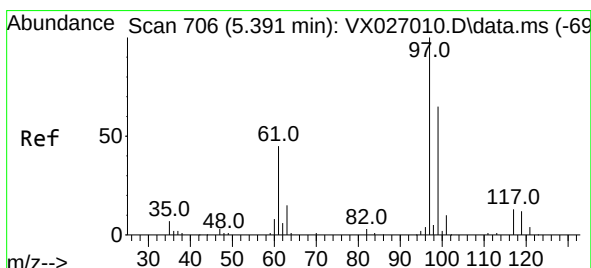
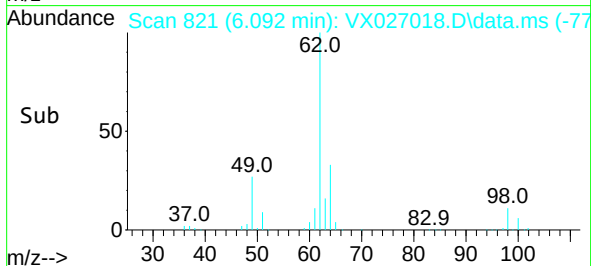
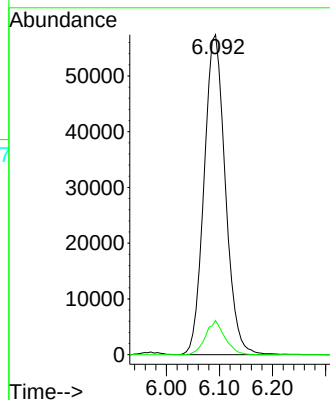
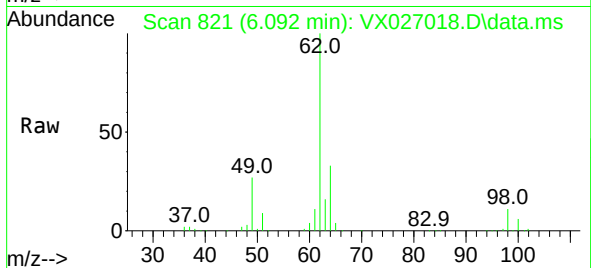
98 10.7 8.2 12.2

Manual Integrations

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Supervised By :Mahesh Dadoda 02/16/2022



#30

1,1,1-Trichloroethane

Concen: 64.961 ug/L

RT: 5.385 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX027018.D

Acq: 14 Feb 2022 17:03

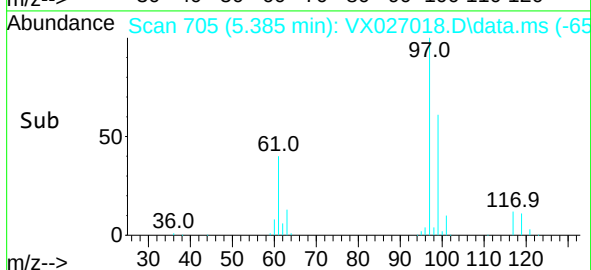
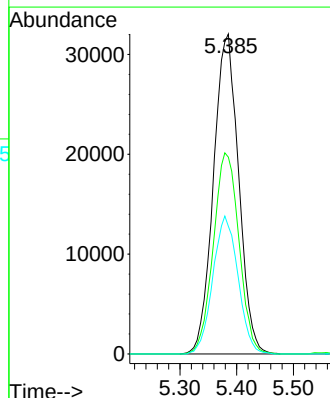
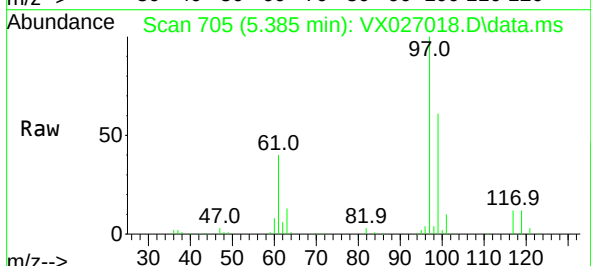
Tgt Ion: 97 Resp: 98852

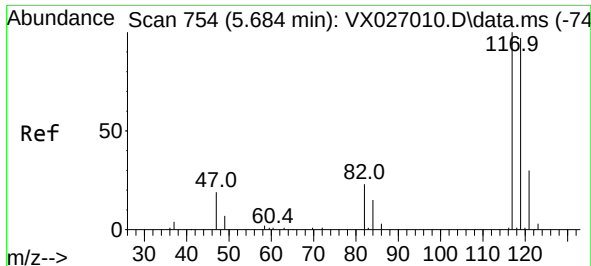
Ion Ratio Lower Upper

97 100

99 64.2 51.5 77.3

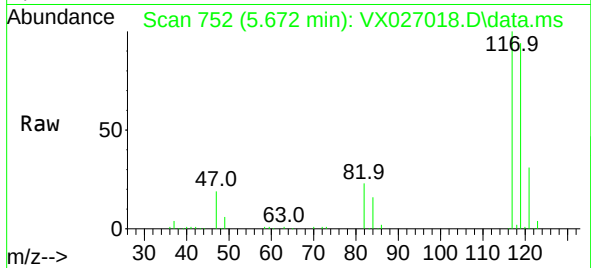
61 43.1 35.2 52.8





#31
Carbon tetrachloride
Concen: 75.850 ug/L
RT: 5.672 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

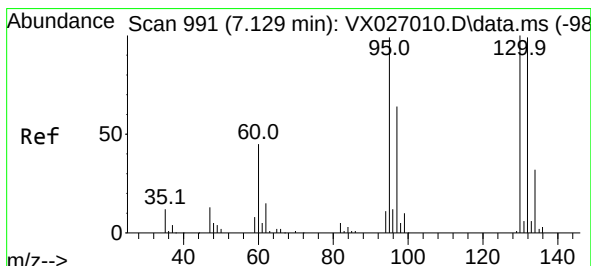
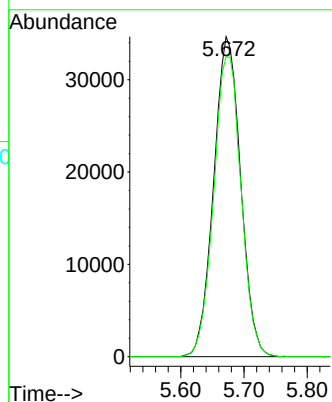
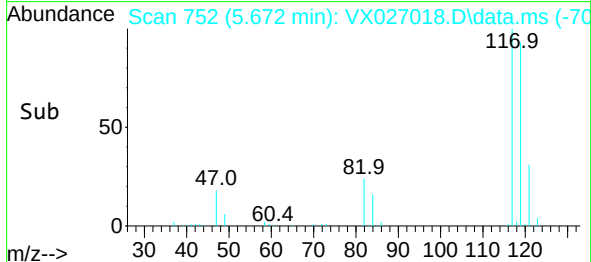
Instrument :
MSVOA_X
ClientSampleId :
X3946



Tgt Ion:117 Resp: 102389
Ion Ratio Lower Upper
117 100
119 95.4 77.8 116.8

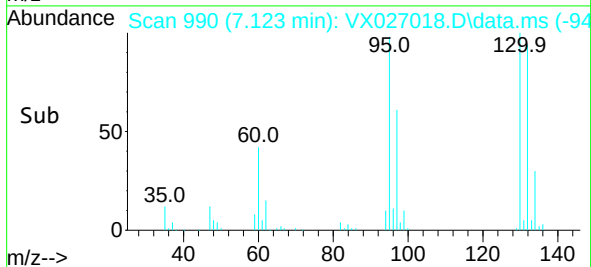
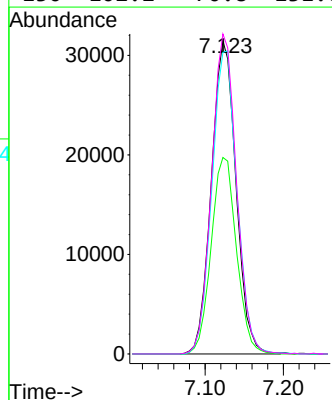
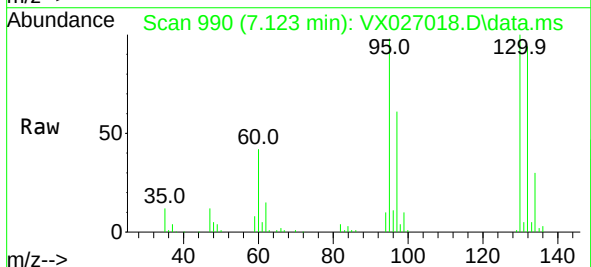
Manual Integrations
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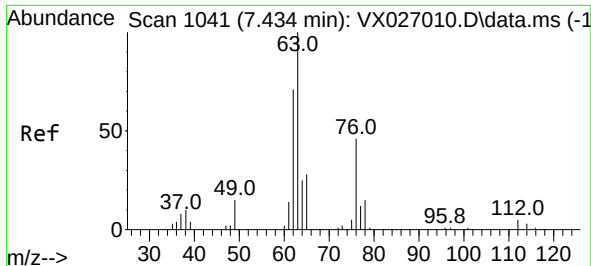
Reviewed By :John Carlone 02/15/2022
Supervised By :Mahesh Dadoda 02/16/2022



#34
Trichloroethene
Concen: 63.527 ug/L
RT: 7.123 min Scan# 990
Delta R.T. -0.006 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

Tgt Ion: 95 Resp: 68661
Ion Ratio Lower Upper
95 100
97 62.8 45.5 84.5
132 96.3 69.9 129.7
130 102.2 70.8 131.6





#37

1,2-Dichloropropane

Concen: 70.733 ug/L

RT: 7.434 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VX027018.D

Acq: 14 Feb 2022 17:03

Instrument :

MSVOA_X

ClientSampleId :

X3946

Tgt Ion: 63 Resp: 6721

Ion Ratio Lower Upper

63 100

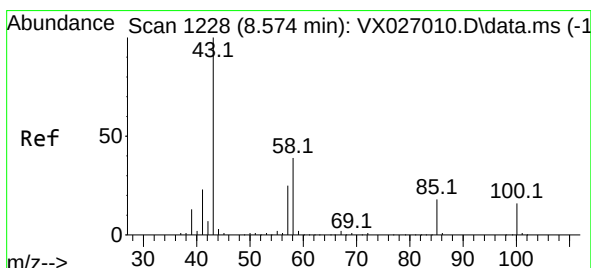
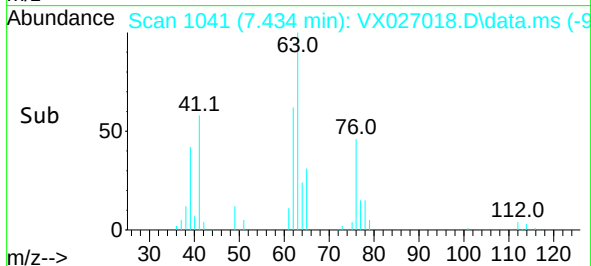
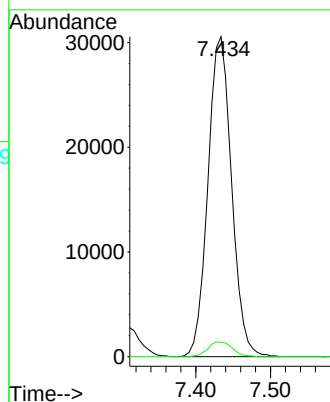
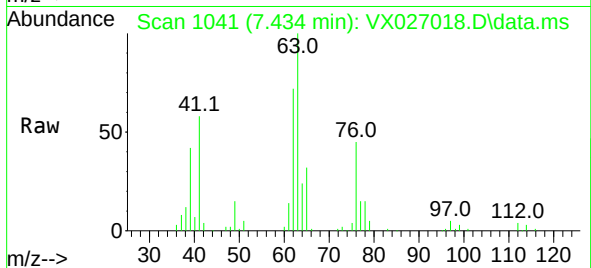
112 4.8 3.8 5.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/15/2022

Supervised By :Mahesh Dadoda 02/16/2022



#40

4-Methyl-2-pentanone

Concen: 234.353 ug/L m

RT: 8.592 min Scan# 1231

Delta R.T. 0.018 min

Lab File: VX027018.D

Acq: 14 Feb 2022 17:03

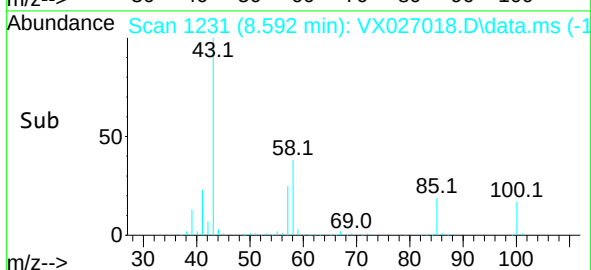
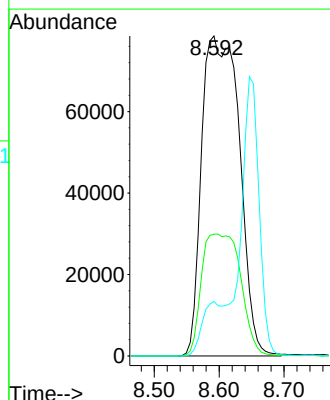
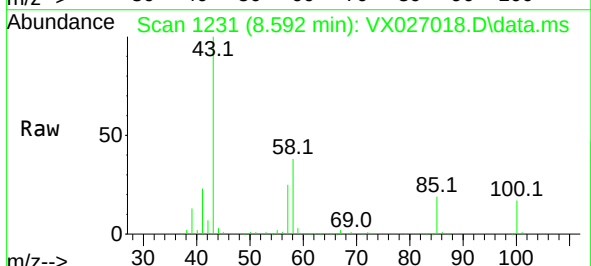
Tgt Ion: 43 Resp: 316568

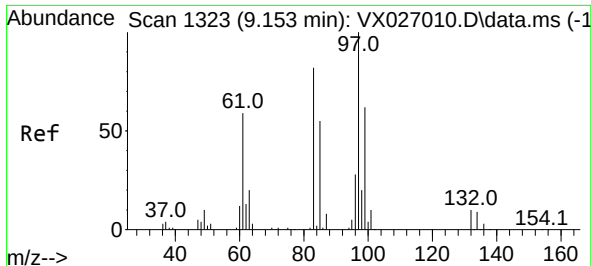
Ion Ratio Lower Upper

43 100

58 21.4 31.0 46.6#

100 8.8 13.0 19.4#





#45

1,1,2-Trichloroethane

Concen: 135.688 ug/L

RT: 9.159 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX027018.D

Acq: 14 Feb 2022 17:03

Instrument :

MSVOA_X

ClientSampleId :

X3946

Tgt Ion: 97 Resp: 126070

Ion Ratio Lower Upper

97 100

99 63.7 43.3 80.5

83 82.3 57.5 106.9

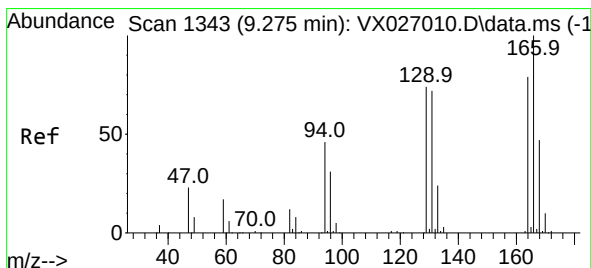
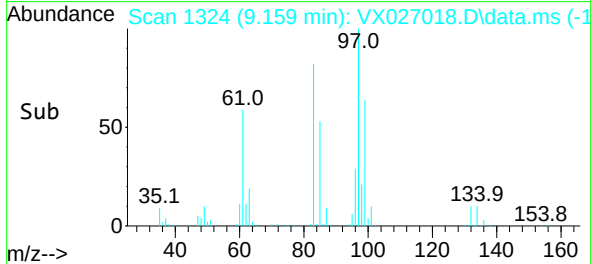
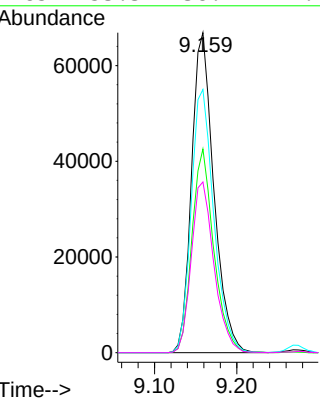
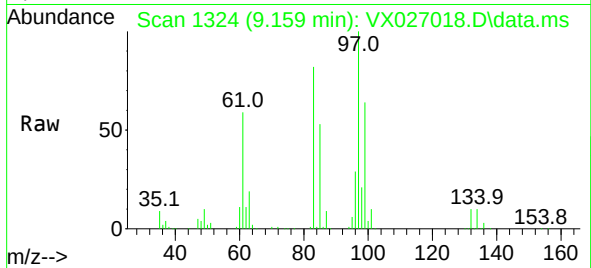
85 53.3 38.4 71.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/15/2022

Supervised By :Mahesh Dadoda 02/16/2022



#46

Tetrachloroethene

Concen: 135.194 ug/L

RT: 9.275 min Scan# 1343

Delta R.T. -0.000 min

Lab File: VX027018.D

Acq: 14 Feb 2022 17:03

Tgt Ion:164 Resp: 108189

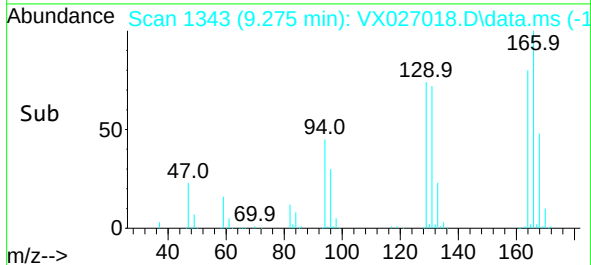
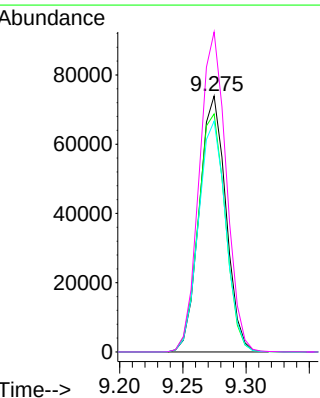
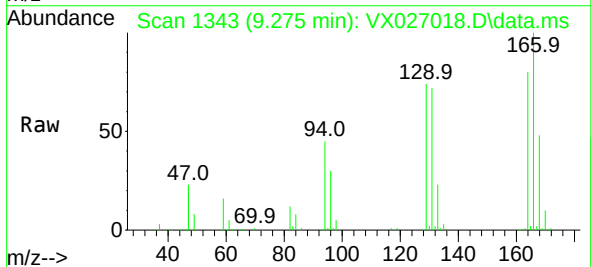
Ion Ratio Lower Upper

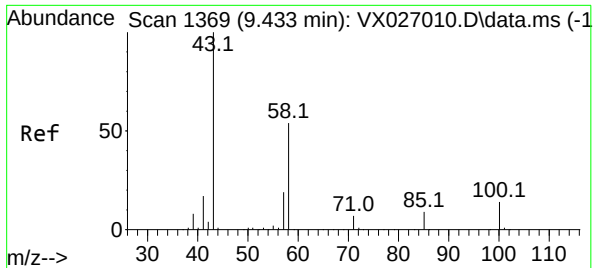
164 100

129 93.0 65.5 121.7

131 90.2 64.3 119.3

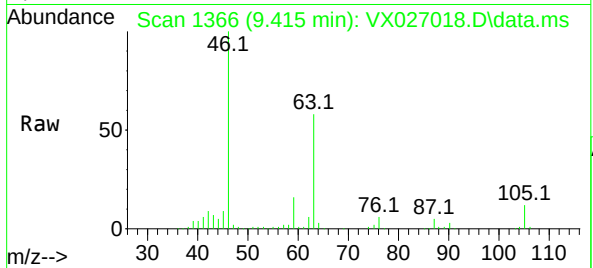
166 125.0 88.7 164.7





#48
2-Hexanone
Concen: 6.030 ug/L
RT: 9.415 min Scan# 1366
Delta R.T. -0.018 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

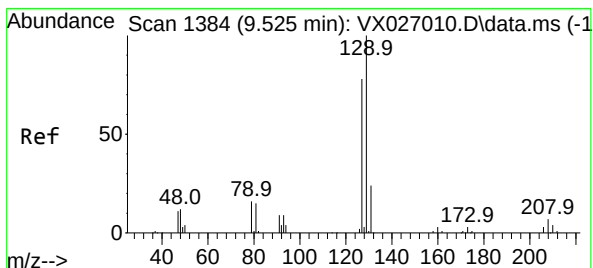
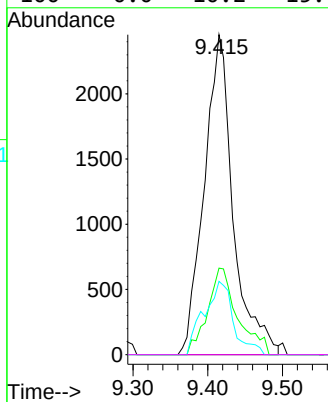
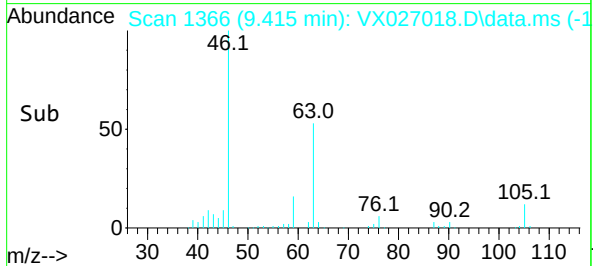
Instrument : MSVOA_X
ClientSampleId : X3946



Tgt Ion: 43 Resp: 659
Ion Ratio Lower Upper
43 100
58 28.1 42.9 64.3
57 23.4 15.3 22.9
100 0.0 10.2 15.4

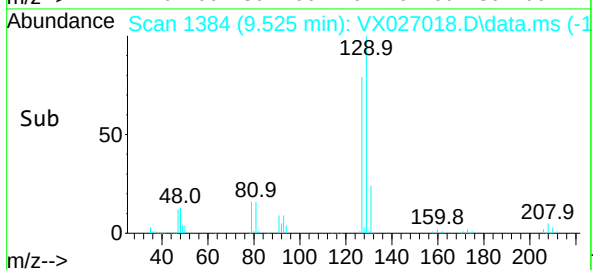
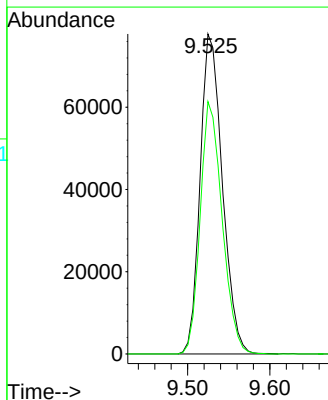
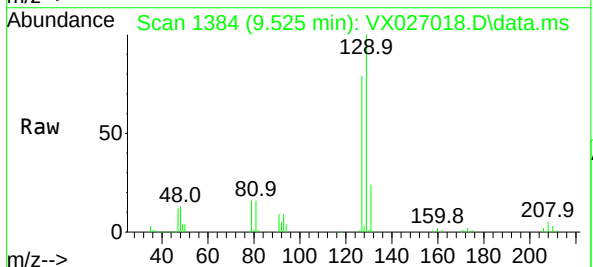
Manual Integrations
APPROVED

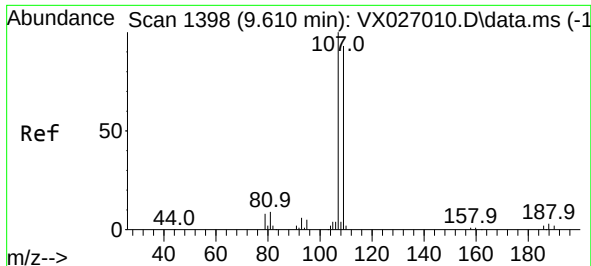
Reviewed By :John Carlone 02/15/2022
Supervised By :Mahesh Dadoda 02/16/2022



#49
Dibromochloromethane
Concen: 143.622 ug/L
RT: 9.525 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

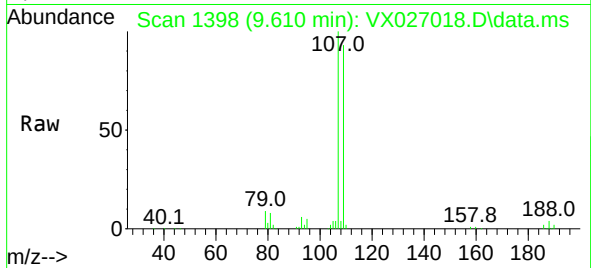
Tgt Ion:129 Resp: 146350
Ion Ratio Lower Upper
129 100
127 78.8 54.3 100.9





#50
1,2-Dibromoethane
Concen: 98.104 ug/L
RT: 9.610 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

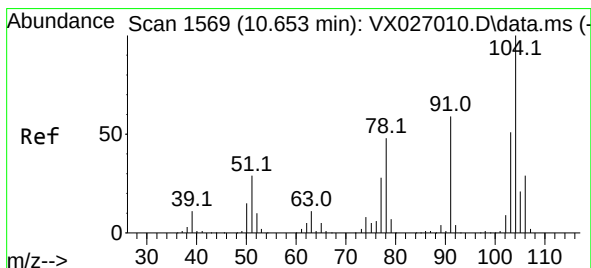
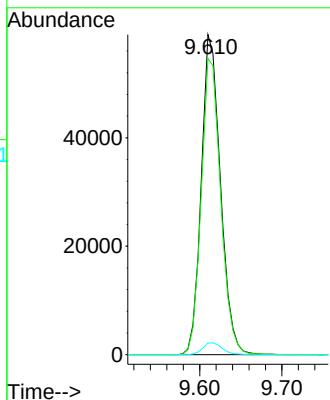
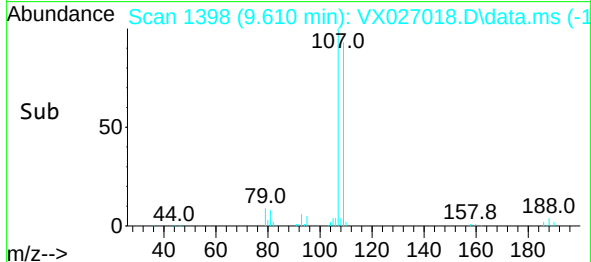
Instrument :
MSVOA_X
ClientSampleId :
X3946



Tgt Ion:107 Resp: 95694
Ion Ratio Lower Upper
107 100
109 92.6 64.9 120.5
188 3.6 2.7 4.1

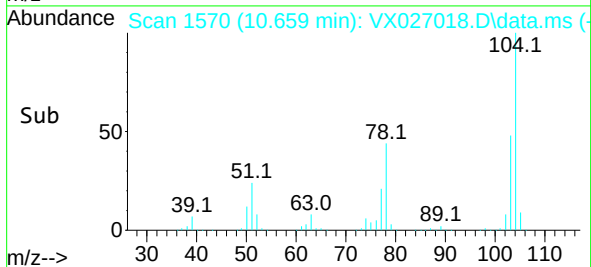
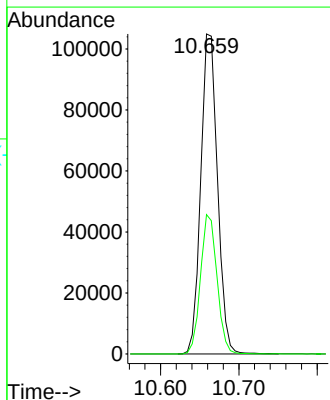
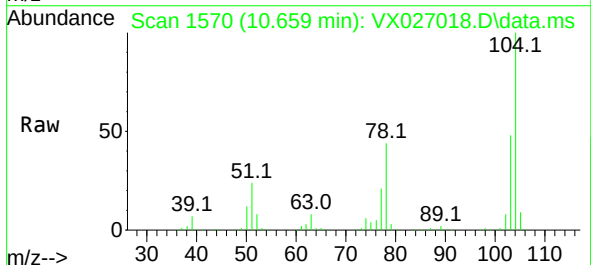
Manual Integrations
APPROVED

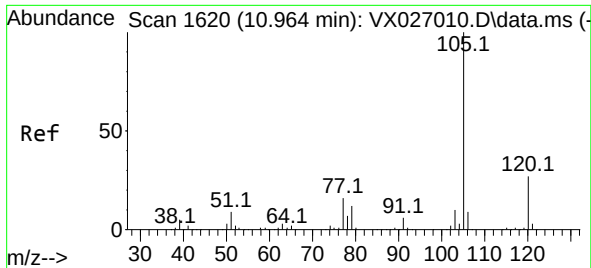
Reviewed By :John Carlone 02/15/2022
Supervised By :Mahesh Dadoda 02/16/2022



#55
Styrene
Concen: 55.802 ug/L
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

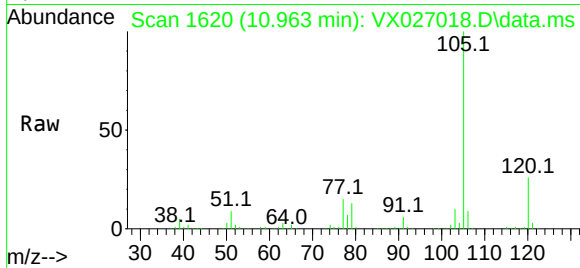
Tgt Ion:104 Resp: 155525
Ion Ratio Lower Upper
104 100
78 43.5 33.3 61.9





#60
Isopropylbenzene
Concen: 43.982 ug/L
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

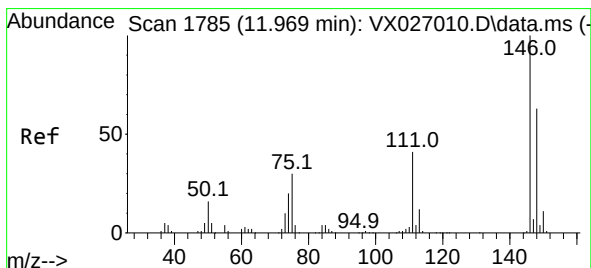
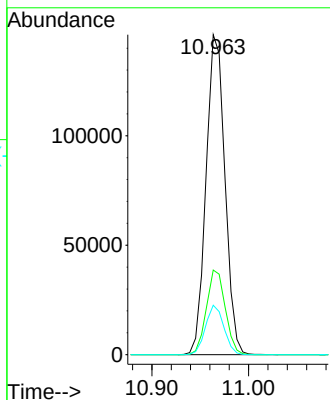
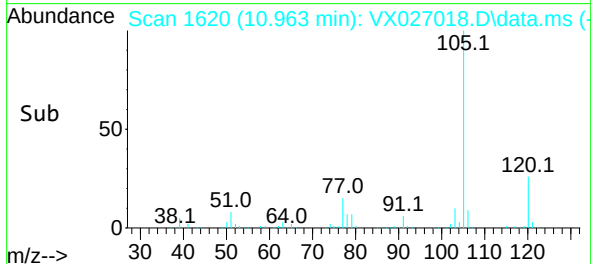
Instrument :
MSVOA_X
ClientSampleId :
X3946



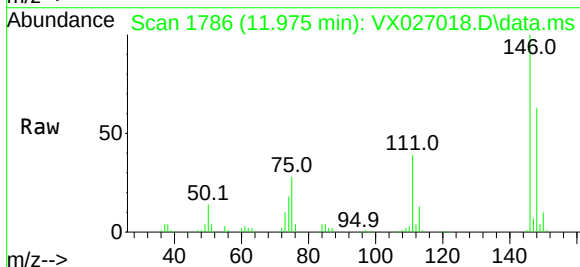
Tgt Ion:105 Resp: 198660
Ion Ratio Lower Upper
105 100
120 26.5 21.2 31.8
77 15.1 12.5 18.7

Manual Integrations
APPROVED

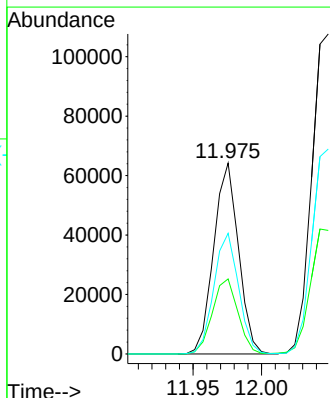
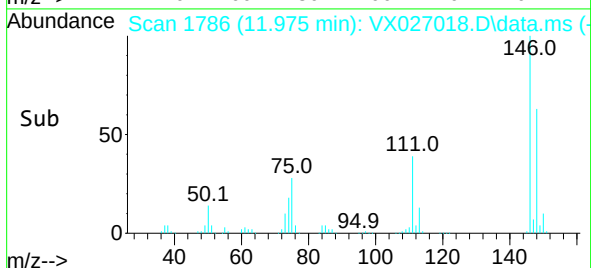
Reviewed By :John Carlone 02/15/2022
Supervised By :Mahesh Dadoda 02/16/2022

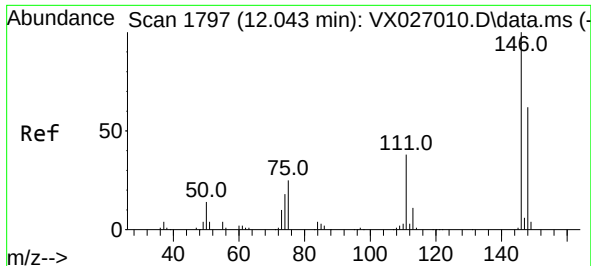


#64
1,3-Dichlorobenzene
Concen: 40.165 ug/L
RT: 11.975 min Scan# 1786
Delta R.T. 0.006 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03



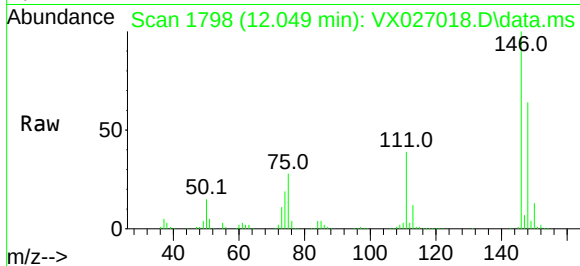
Tgt Ion:146 Resp: 80705
Ion Ratio Lower Upper
146 100
111 39.3 28.3 52.7
148 63.2 43.8 81.4





#65
1,4-Dichlorobenzene
Concen: 69.688 ug/L
RT: 12.049 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

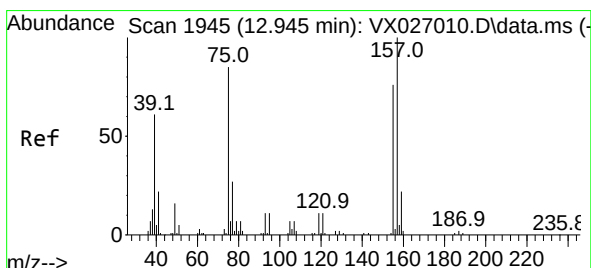
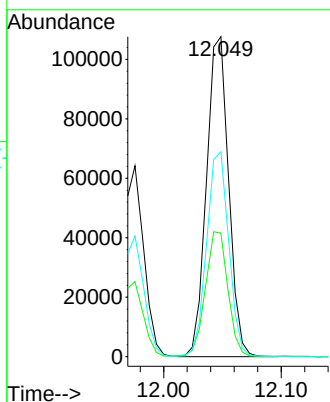
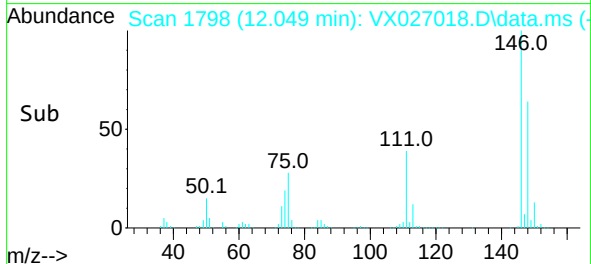
Instrument :
MSVOA_X
ClientSampleId :
X3946



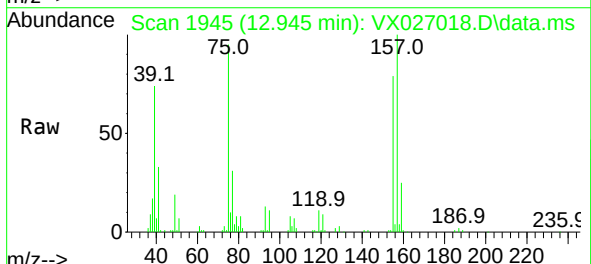
Tgt Ion:146 Resp: 14091
Ion Ratio Lower Upper
146 100
111 38.6 26.5 49.3
148 64.1 43.5 80.7

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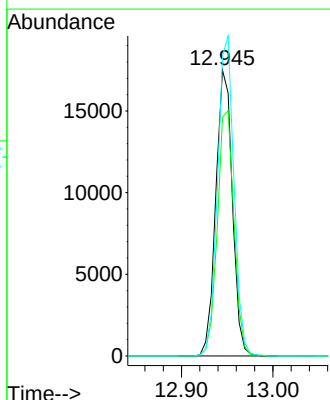
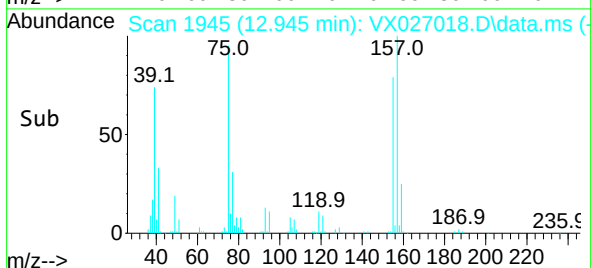
Reviewed By :John Carlone 02/15/2022
Supervised By :Mahesh Dadoda 02/16/2022

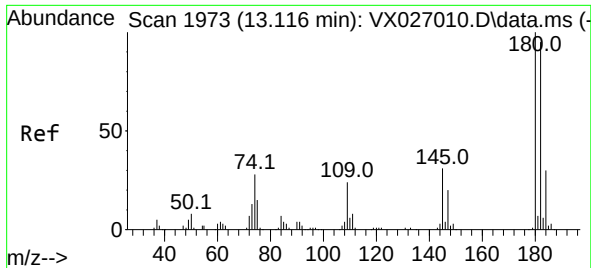


#68
1,2-Dibromo-3-chloropropane
Concen: 76.542 ug/L
RT: 12.945 min Scan# 1945
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03



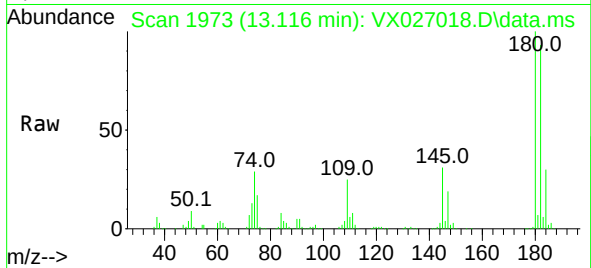
Tgt Ion: 75 Resp: 22041
Ion Ratio Lower Upper
75 100
155 83.5 71.6 107.4
157 105.1 93.8 140.6





#69
1,3,5-Trichlorobenzene
Concen: 112.908 ug/L
RT: 13.116 min Scan# 1973
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03

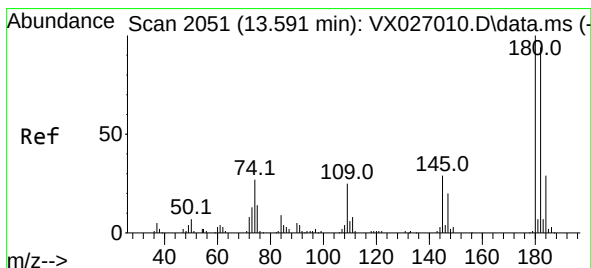
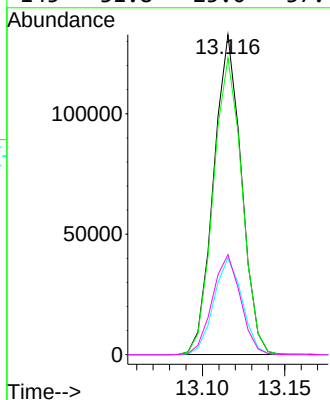
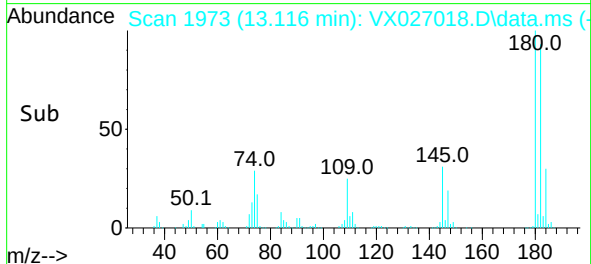
Instrument :
MSVOA_X
ClientSampleId :
X3946



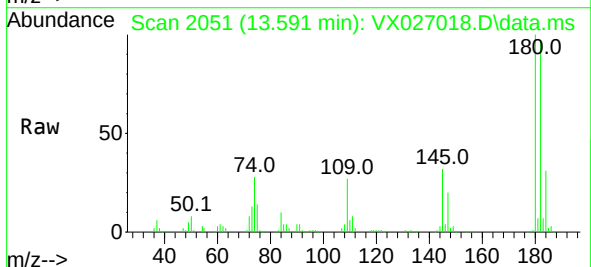
Tgt Ion:180 Resp: 155908
Ion Ratio Lower Upper
180 100
182 95.9 75.6 113.4
184 30.8 23.6 35.4
145 31.8 25.0 37.4

Manual Integrations
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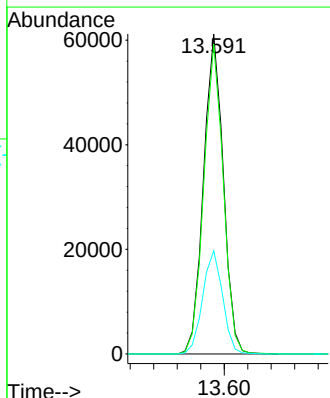
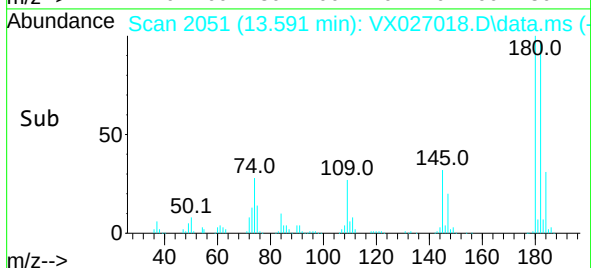
Reviewed By :John Carlone 02/15/2022
Supervised By :Mahesh Dadoda 02/16/2022

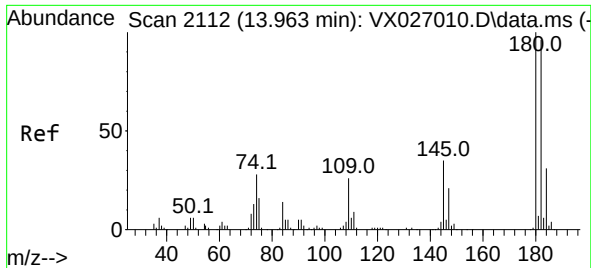


#70
1,2,4-trichlorobenzene
Concen: 58.509 ug/L
RT: 13.591 min Scan# 2051
Delta R.T. -0.000 min
Lab File: VX027018.D
Acq: 14 Feb 2022 17:03



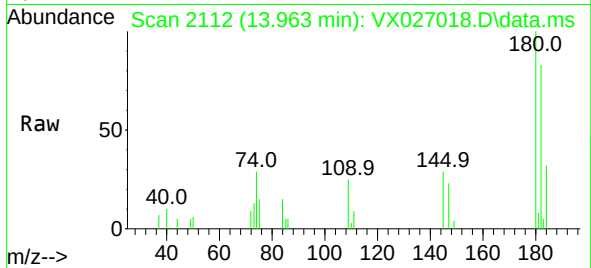
Tgt Ion:180 Resp: 71327
Ion Ratio Lower Upper
180 100
182 95.3 75.4 113.2
145 32.5 25.0 37.4





#72
 1,2,3-Trichlorobenzene
 Concen: 1.531 ug/L
 RT: 13.963 min Scan# 2112
 Delta R.T. -0.000 min
 Lab File: VX027018.D
 Acq: 14 Feb 2022 17:03

Instrument :
 MSVOA_X
 ClientSampleId :
 X3946



Tgt Ion:180 Resp: 1860
 Ion Ratio Lower Upper
 180 100
 182 86.0 77.0 115.4
 145 33.6 27.4 41.0

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/15/2022
 Supervised By :Mahesh Dadoda 02/16/2022

