

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062822\
 Data File : VN073209.D
 Acq On : 28 Jun 2022 20:13
 Operator : JC\MD
 Sample : N3494-17DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-EXC-1-6DL

Quant Time: Jun 29 02:03:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 01:54:03 2022
 Response via : Initial Calibration

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

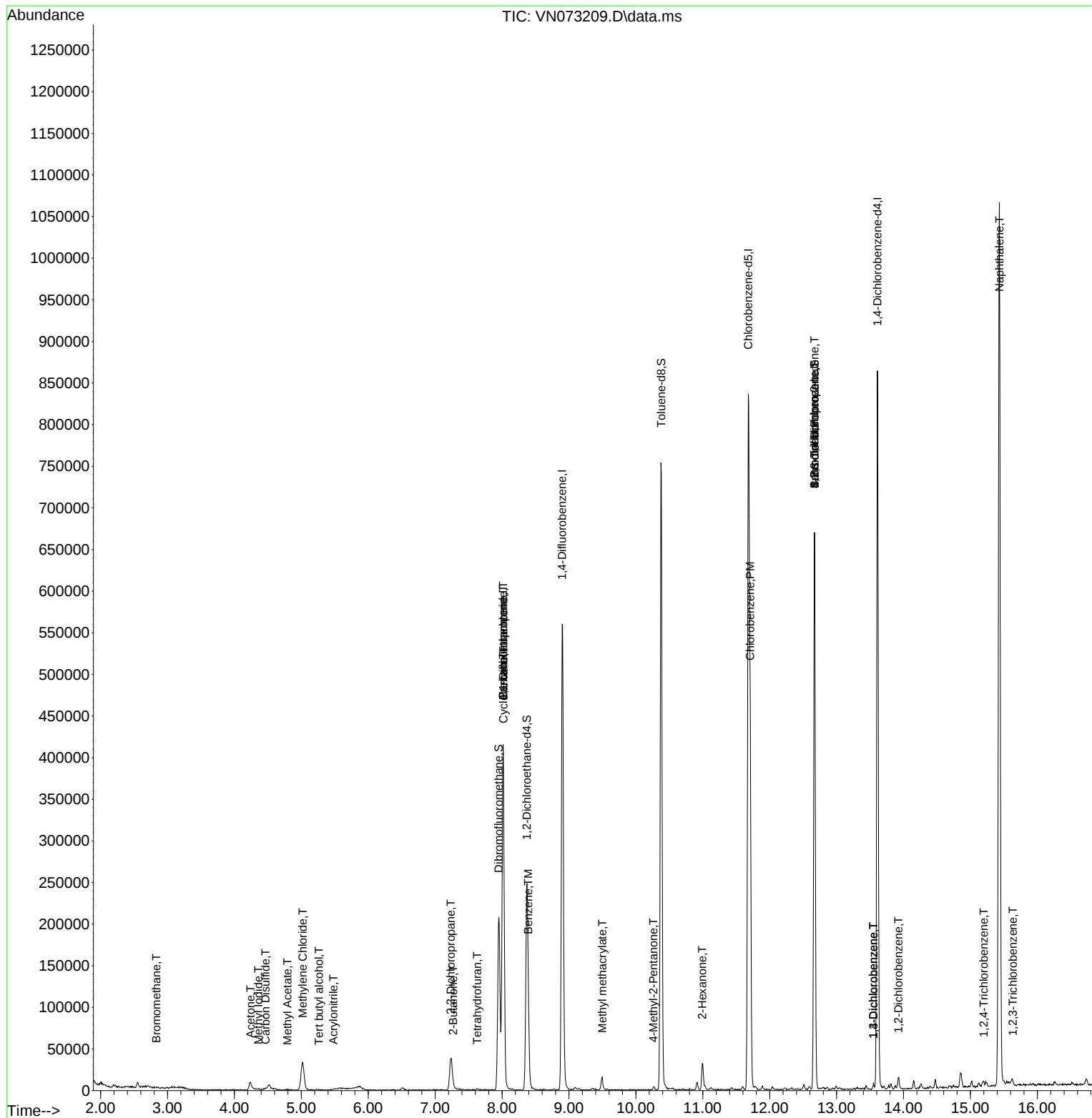
Internal Standards						
1) Pentafluorobenzene	8.016	168	310730	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.898	114	500538	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	462041	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	224539	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	187598	41.821	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	83.640%
35) Dibromofluoromethane	7.951	113	157773	47.377	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.760%
50) Toluene-d8	10.380	98	521305	44.075	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	88.160%
62) 4-Bromofluorobenzene	12.668	95	234369	51.563	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.120%
Target Compounds						
					Qvalue	
5) Bromomethane	2.834	94	931	0.526	ug/l	93
10) Methyl Iodide	4.357	142	841	3.883	ug/l #	81
11) Tert butyl alcohol	5.263	59	346	0.318	ug/l #	72
15) Acrylonitrile	5.481	53	769	0.275	ug/l #	53
16) Acetone	4.240	43	17190	6.827	ug/l	95
17) Carbon Disulfide	4.463	76	2831	0.298	ug/l #	75
18) Methyl Acetate	4.793	43	1654	0.234	ug/l #	58
20) Methylene Chloride	5.022	84	27084	6.121	ug/l	90
25) 2-Butanone	7.269	43	6304	1.573	ug/l #	75
26) 2,2-Dichloropropane	7.234	77	2671	0.388	ug/l #	53
29) Tetrahydrofuran	7.628	42	1153	0.420	ug/l #	63
31) Cyclohexane	8.022	56	7304	0.994	ug/l #	12
36) 1,1-Dichloropropene	8.016	75	25527	4.982	ug/l #	49
38) Carbon Tetrachloride	8.016	117	31336	5.914	ug/l #	16
40) Benzene	8.392	78	60889	3.850	ug/l	98
48) Methyl methacrylate	9.498	41	1679	0.326	ug/l #	37
51) 4-Methyl-2-Pentanone	10.263	43	3210	0.455	ug/l #	79
59) 2-Hexanone	10.992	43	29548	5.493	ug/l #	21
65) Chlorobenzene	11.710	112	222480	21.291	ug/l	97
71) Bromoform	12.668	173	1857	0.660	ug/l #	1
76) 1,2,3-Trichloropropane	12.668	75	120319	20.493	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.668	75	120319	56.201	ug/l #	10
87) 1,3-Dichlorobenzene	13.551	146	1826	0.226	ug/l	96
88) 1,4-Dichlorobenzene	13.551	146	1826	0.225	ug/l	94
91) 1,2-Dichlorobenzene	13.921	146	5353	0.650	ug/l	97
93) 1,2,4-Trichlorobenzene	15.198	180	2102	0.490	ug/l #	67
95) Naphthalene	15.433	128	968651	55.974	ug/l	100
96) 1,2,3-Trichlorobenzene	15.633	180	3008	0.680	ug/l #	63

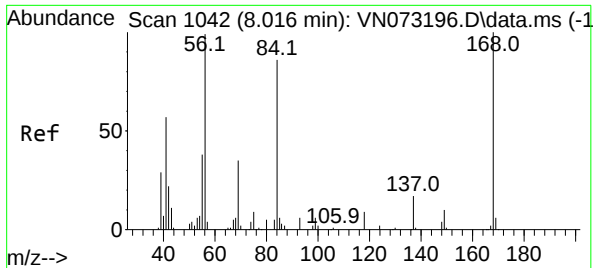
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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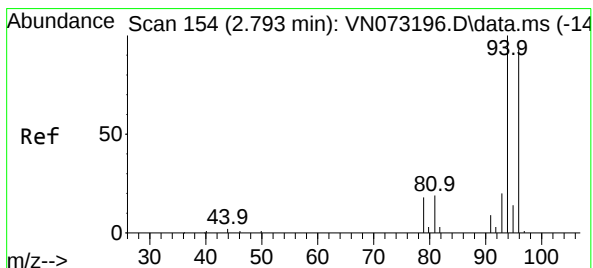
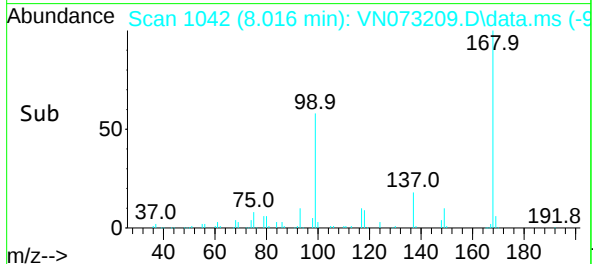
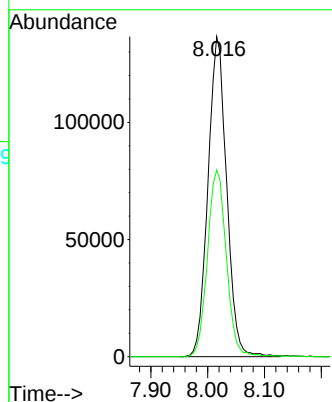
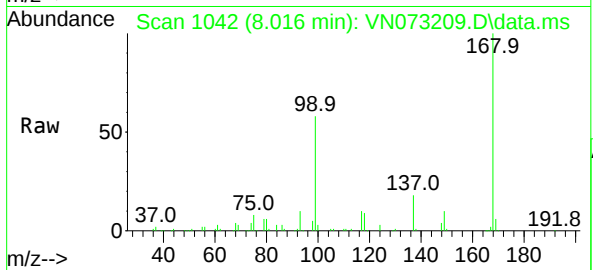




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

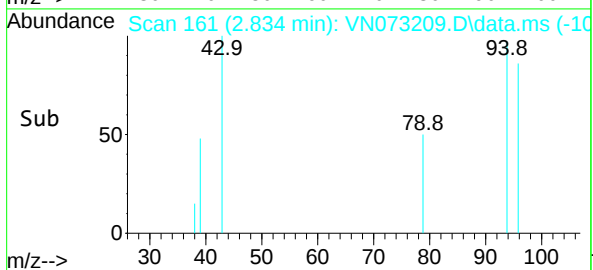
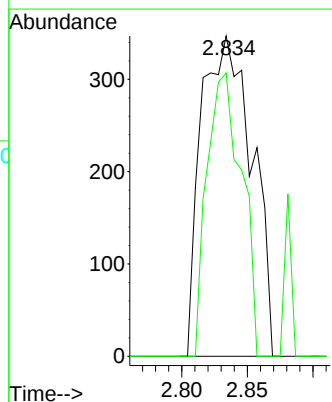
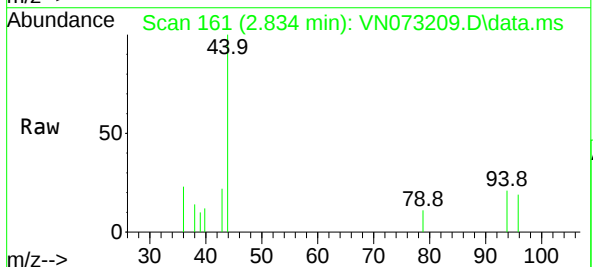
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

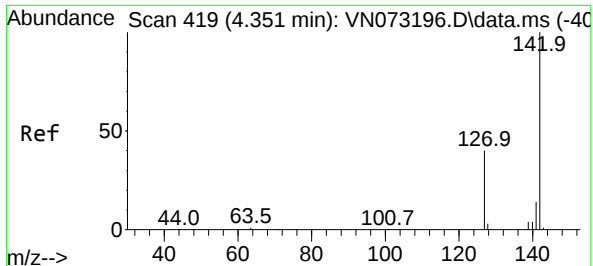
Tgt Ion:168 Resp: 310730
Ion Ratio Lower Upper
168 100
99 58.3 42.3 63.5



#5
Bromomethane
Concen: 0.526 ug/l
RT: 2.834 min Scan# 161
Delta R.T. 0.041 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 94 Resp: 931
Ion Ratio Lower Upper
94 100
96 88.5 76.0 114.0

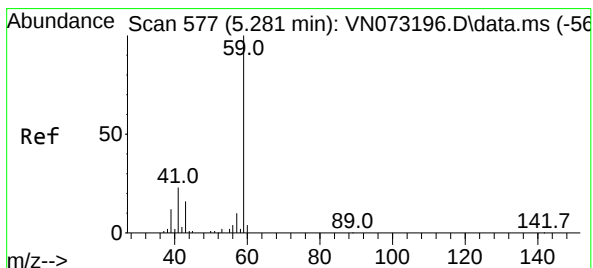
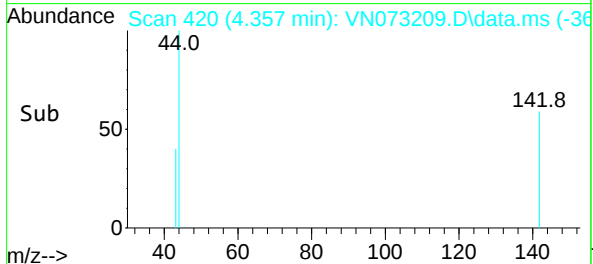
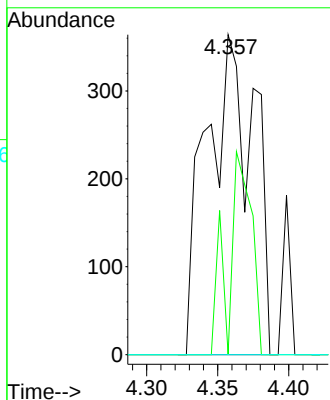
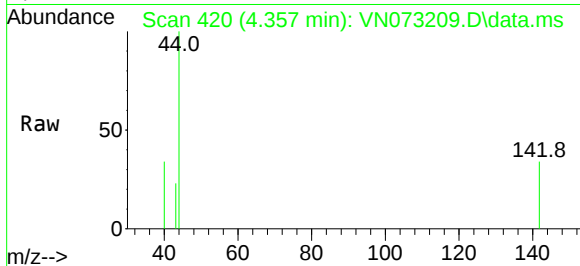




#10
Methyl Iodide
Concen: 3.883 ug/l
RT: 4.357 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

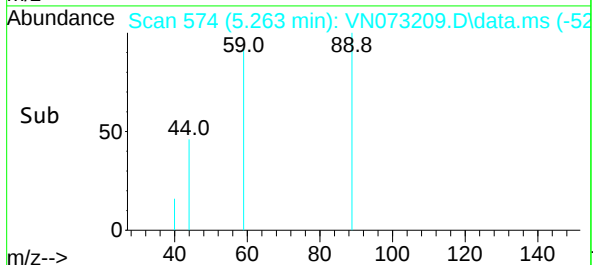
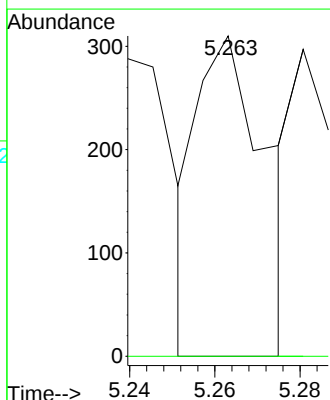
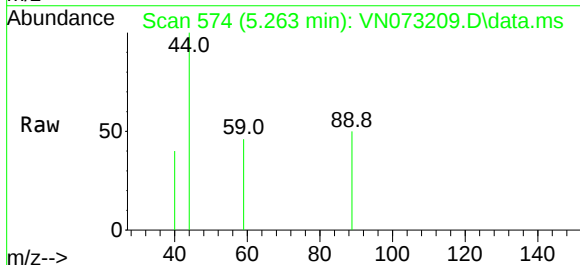
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

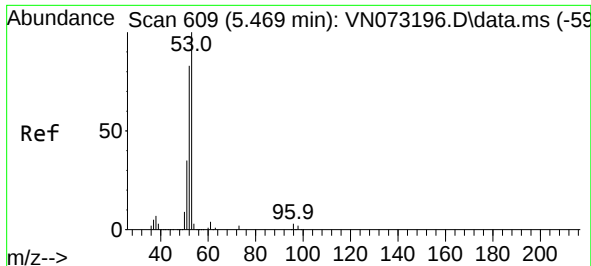
Tgt Ion:142 Resp: 841
Ion Ratio Lower Upper
142 100
127 31.3 31.3 46.9#
141 0.0 11.2 16.8#



#11
Tert butyl alcohol
Concen: 0.318 ug/l
RT: 5.263 min Scan# 574
Delta R.T. -0.018 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 59 Resp: 346
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

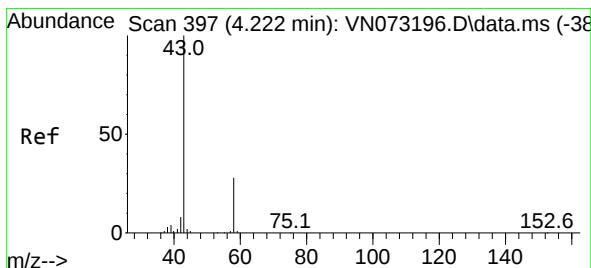
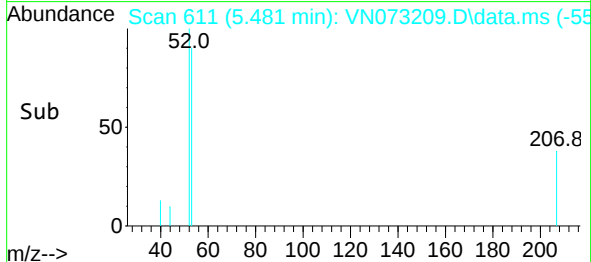
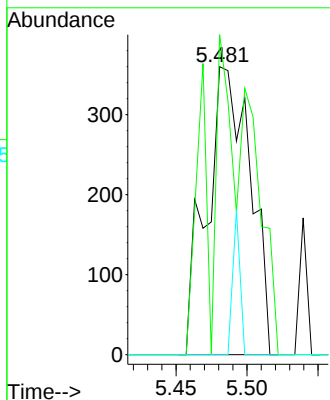
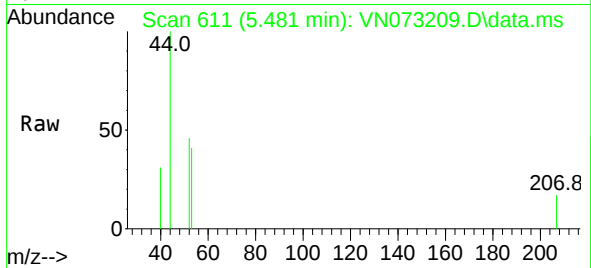




#15
Acrylonitrile
Concen: 0.275 ug/l
RT: 5.481 min Scan# 611
Delta R.T. 0.012 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

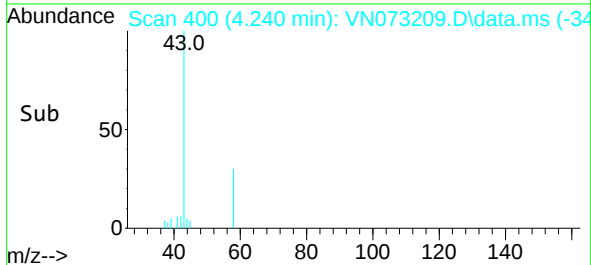
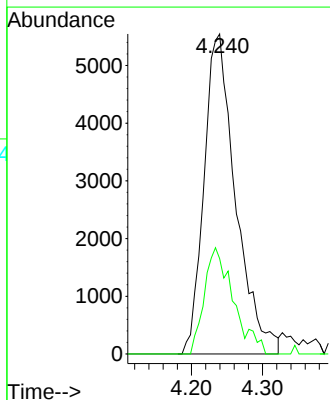
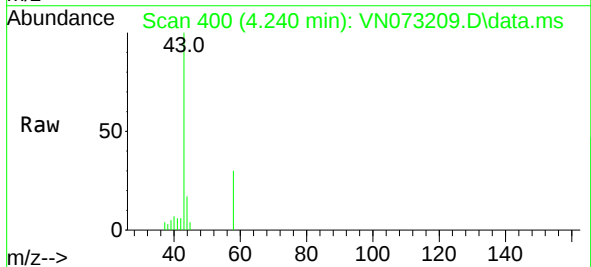
Instrument :
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SP-EXC-1-6DL

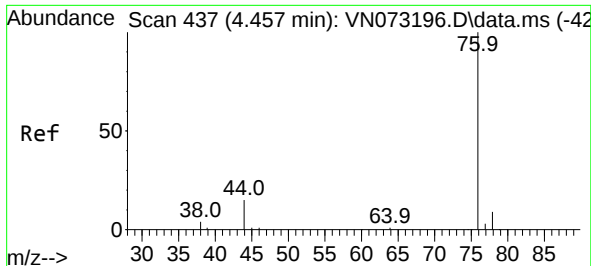
Tgt Ion: 53 Resp: 769
Ion Ratio Lower Upper
53 100
52 41.1 66.4 99.6#
51 8.3 28.5 42.7#



#16
Acetone
Concen: 6.827 ug/l
RT: 4.240 min Scan# 400
Delta R.T. 0.018 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 43 Resp: 17190
Ion Ratio Lower Upper
43 100
58 29.8 26.0 39.0

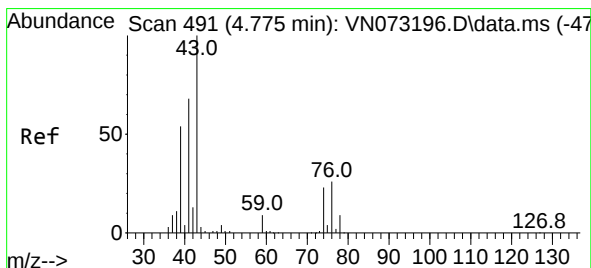
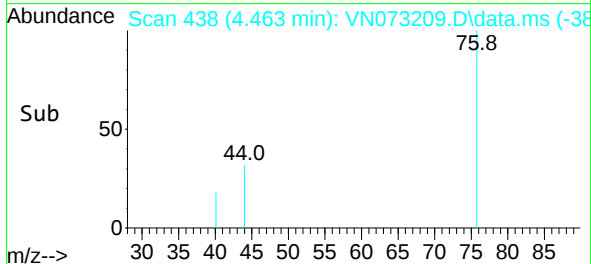
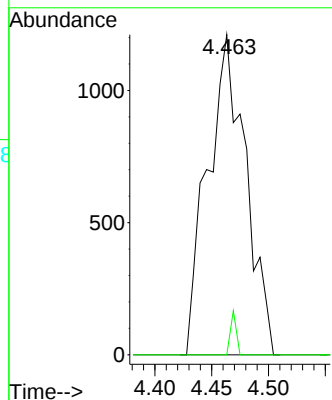
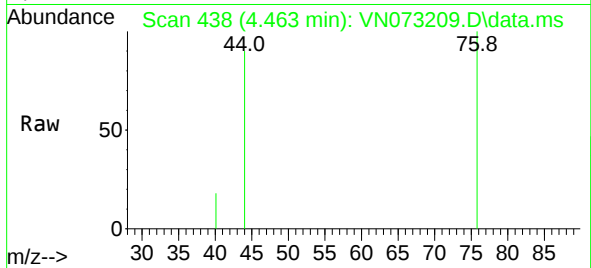




#17
Carbon Disulfide
Concen: 0.298 ug/l
RT: 4.463 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

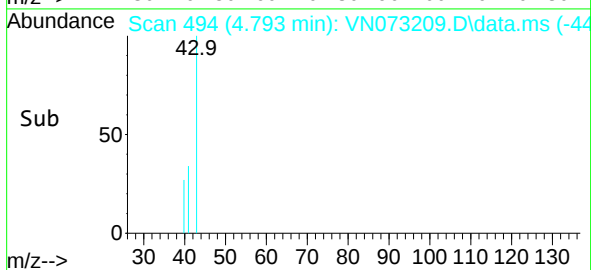
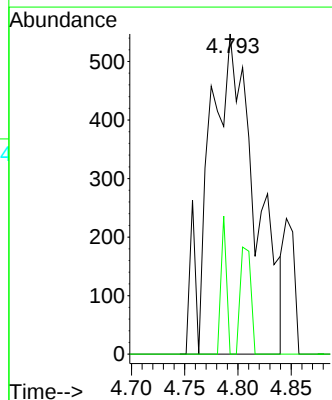
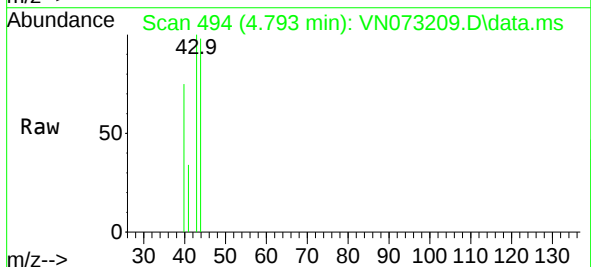
Instrument :
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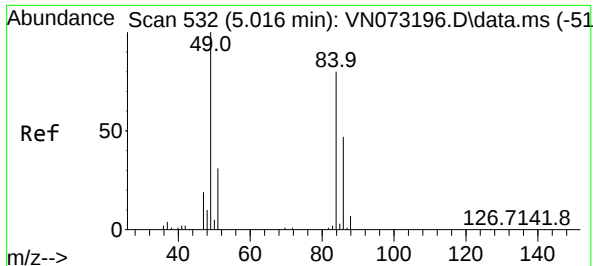
Tgt Ion: 76 Resp: 2831
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 0.234 ug/l
RT: 4.793 min Scan# 494
Delta R.T. 0.018 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 43 Resp: 1654
Ion Ratio Lower Upper
43 100
74 5.0 21.6 32.4#

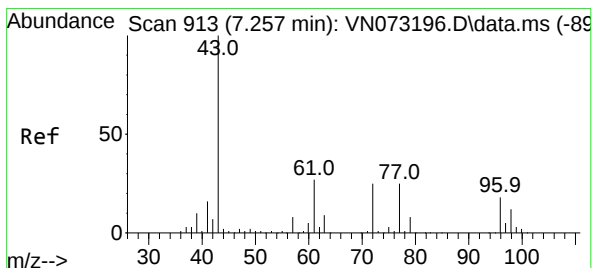
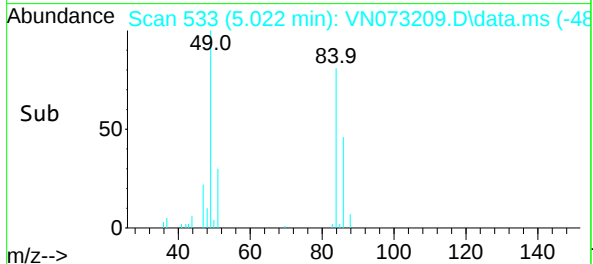
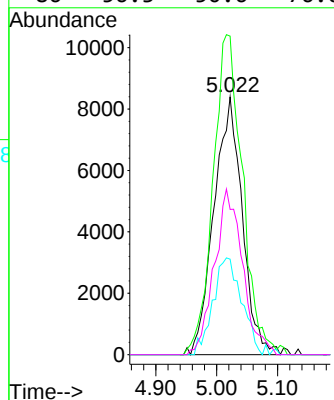
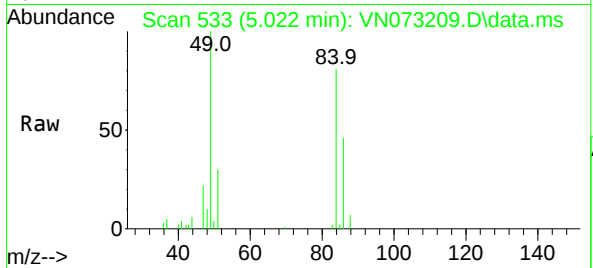




#20
Methylene Chloride
Concen: 6.121 ug/l
RT: 5.022 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

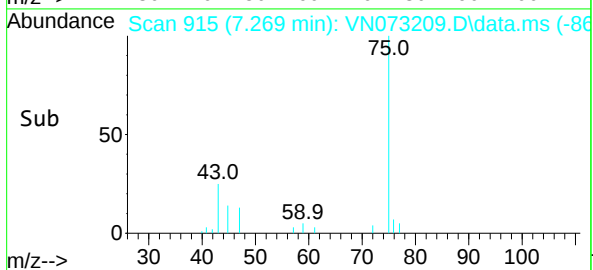
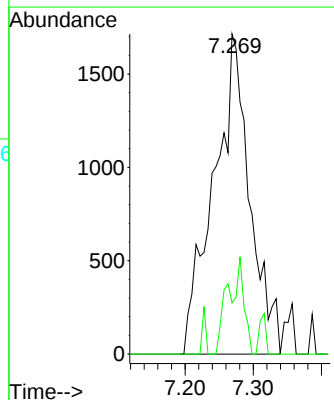
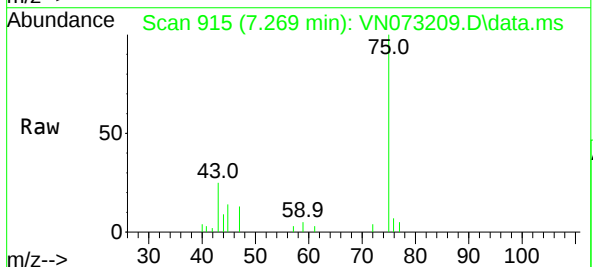
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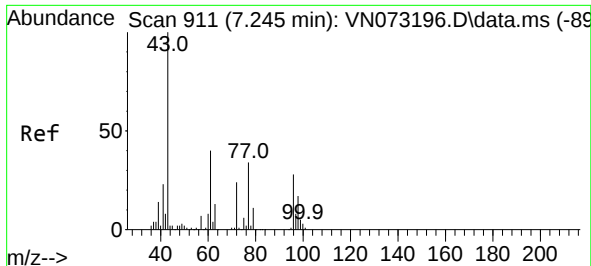
Tgt Ion:	84	Resp:	27084
Ion	Ratio	Lower	Upper
84	100		
49	123.6	88.3	132.5
51	37.0	28.2	42.2
86	56.3	50.6	76.0



#25
2-Butanone
Concen: 1.573 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion:	43	Resp:	6304
Ion	Ratio	Lower	Upper
43	100		
72	16.0	23.7	35.5

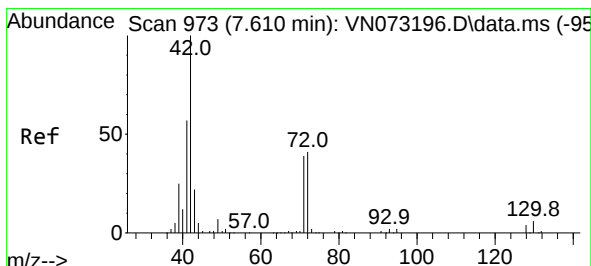
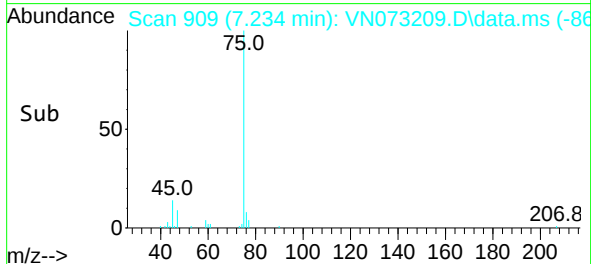
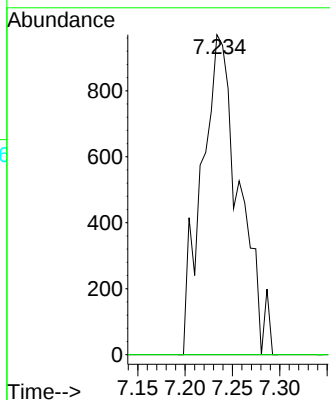
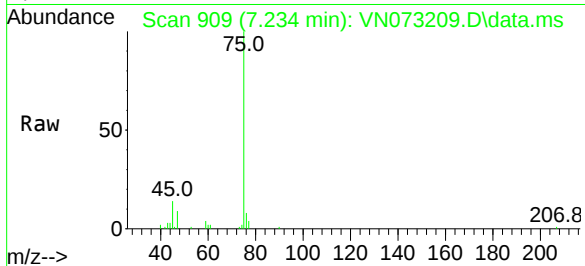




#26
2,2-Dichloropropane
Concen: 0.388 ug/l
RT: 7.234 min Scan# 909
Delta R.T. -0.011 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

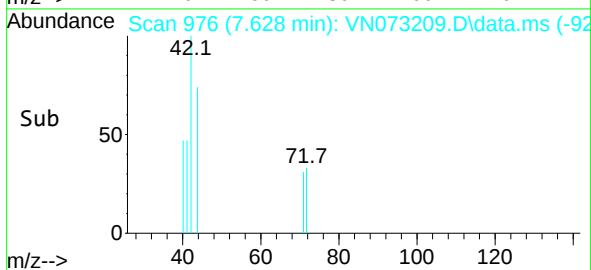
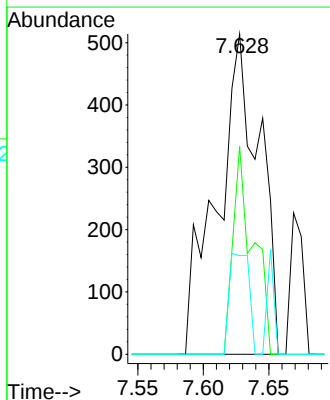
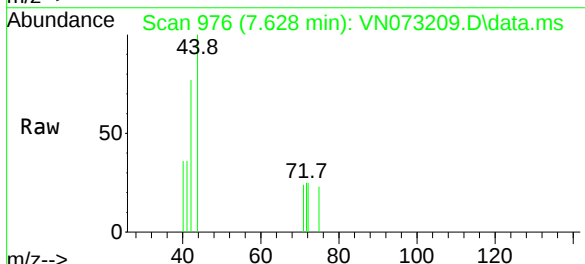
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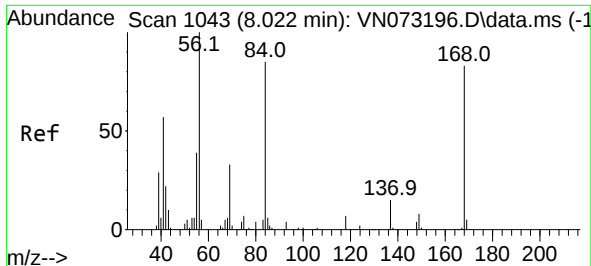
Tgt Ion: 77 Resp: 2671
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#29
Tetrahydrofuran
Concen: 0.420 ug/l
RT: 7.628 min Scan# 976
Delta R.T. 0.018 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

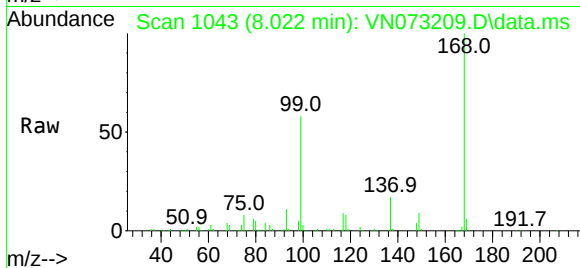
Tgt Ion: 42 Resp: 1153
Ion Ratio Lower Upper
42 100
72 30.9 39.7 59.5#
71 14.7 36.6 55.0#



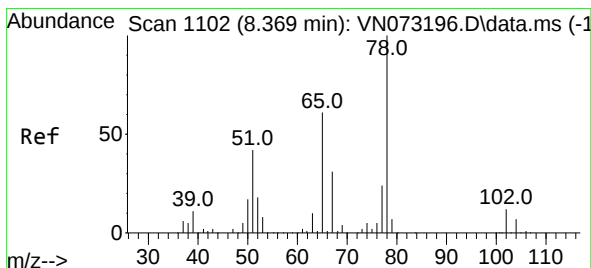
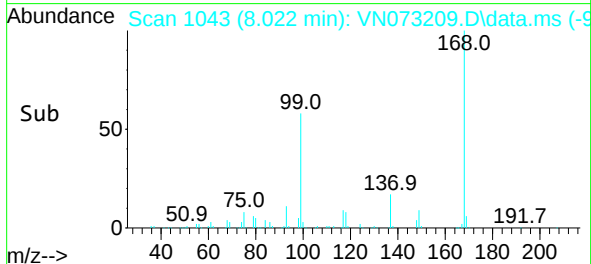
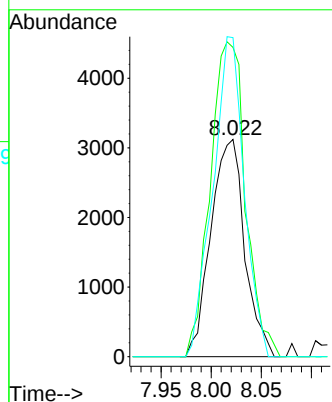


#31
Cyclohexane
Concen: 0.994 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Instrument :
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ClientSampleId :
SP-EXC-1-6DL

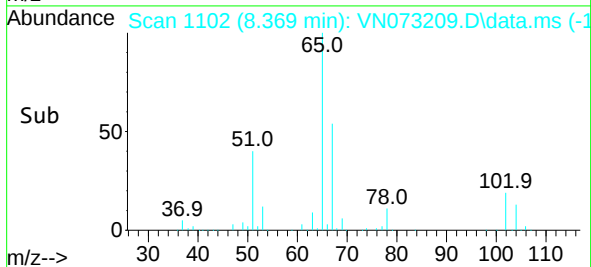
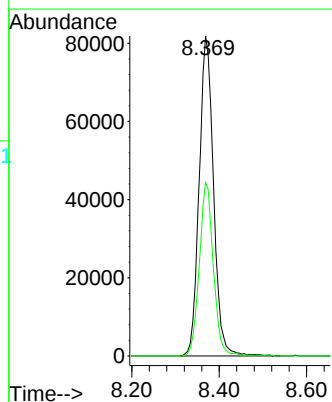
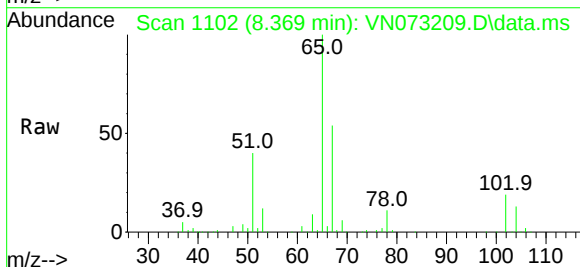


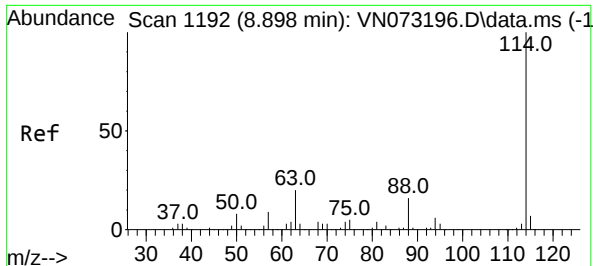
Tgt Ion: 56 Resp: 7304
Ion Ratio Lower Upper
56 100
69 142.4 27.8 41.8#
84 146.9 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 41.821 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 65 Resp: 187598
Ion Ratio Lower Upper
65 100
67 52.9 0.0 104.8

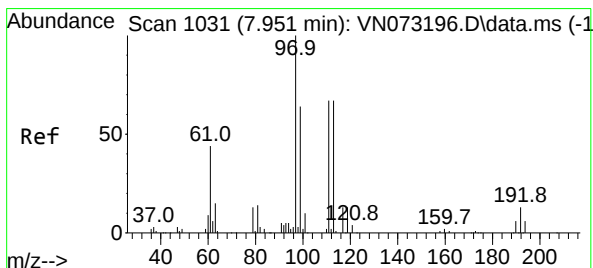
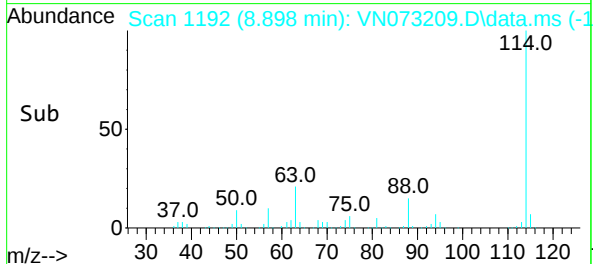
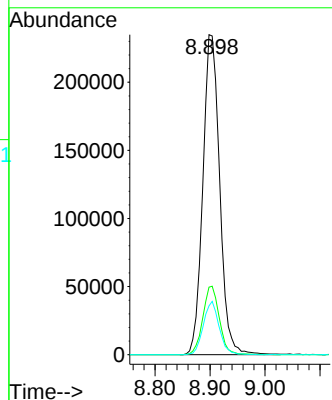
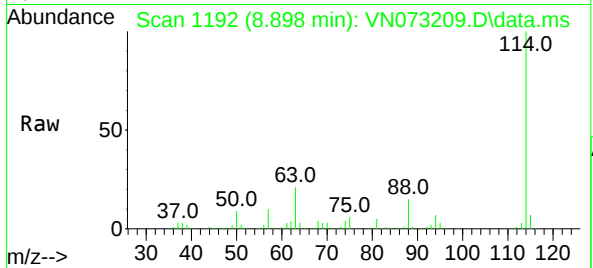




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.898 min Scan# 1192
Delta R.T. 0.000 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

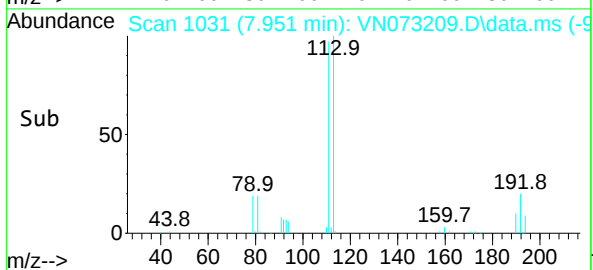
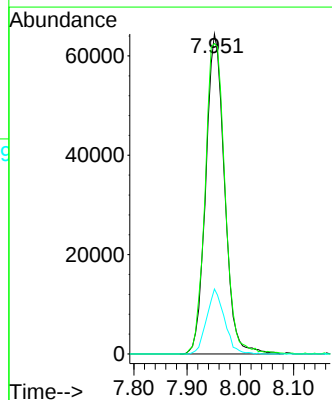
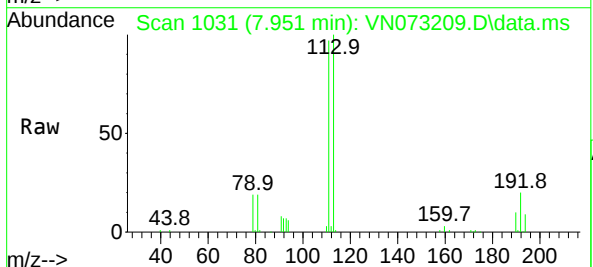
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

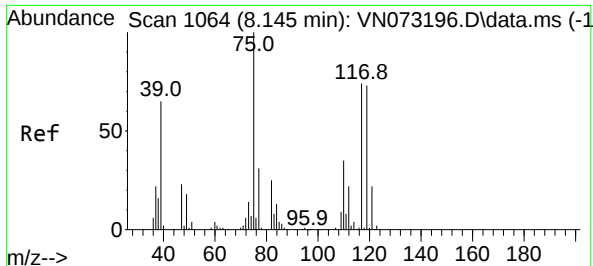
Tgt Ion:114 Resp: 500538
Ion Ratio Lower Upper
114 100
63 21.1 0.0 40.0
88 15.2 0.0 32.6



#35
Dibromofluoromethane
Concen: 47.377 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion:113 Resp: 157773
Ion Ratio Lower Upper
113 100
111 103.0 81.4 122.0
192 19.3 17.0 25.6

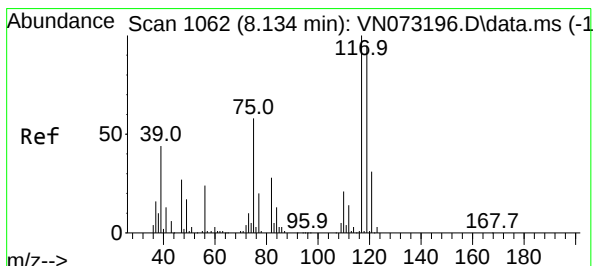
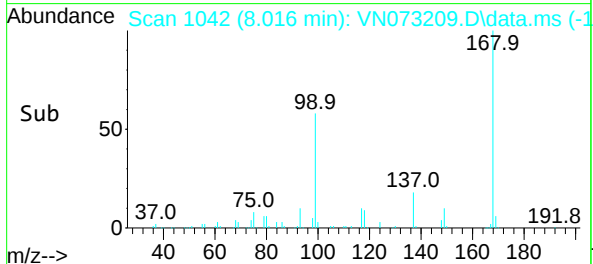
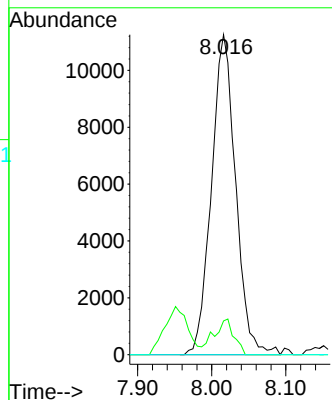
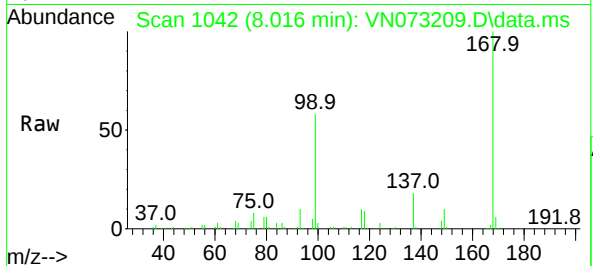




#36
1,1-Dichloropropene
Concen: 4.982 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.129 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

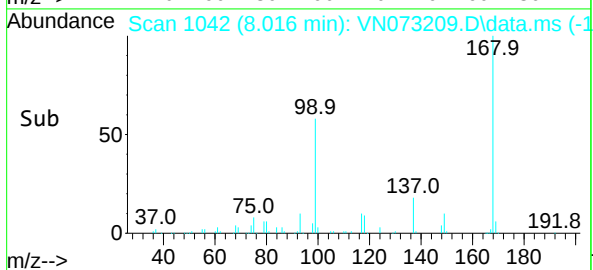
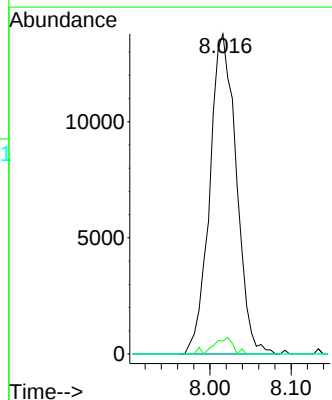
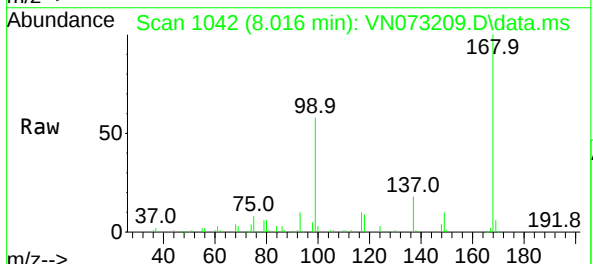
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

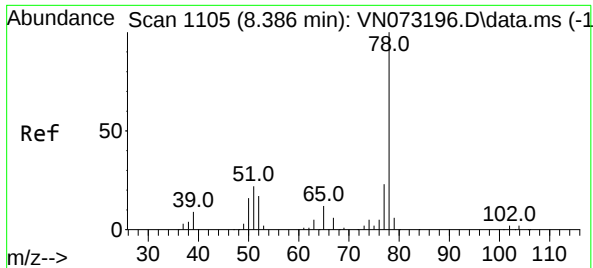
Tgt Ion: 75 Resp: 25527
Ion Ratio Lower Upper
75 100
110 9.2 18.3 54.8#
77 0.0 25.1 37.7#



#38
Carbon Tetrachloride
Concen: 5.914 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 117 Resp: 31336
Ion Ratio Lower Upper
117 100
119 4.0 75.8 113.8#
121 0.0 24.6 37.0#

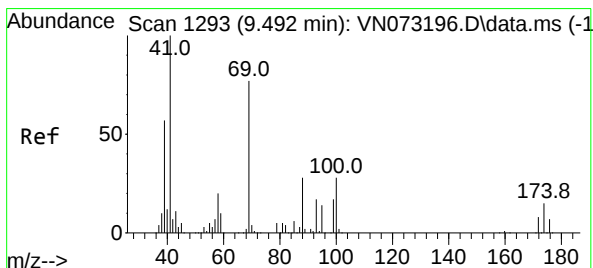
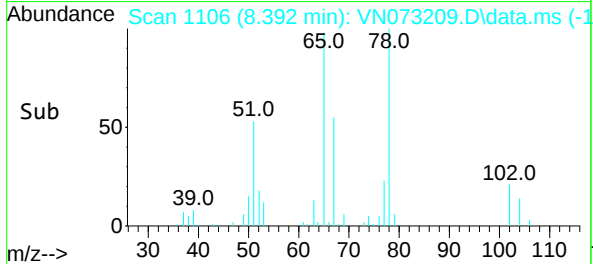
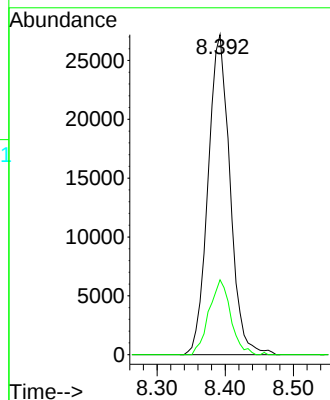
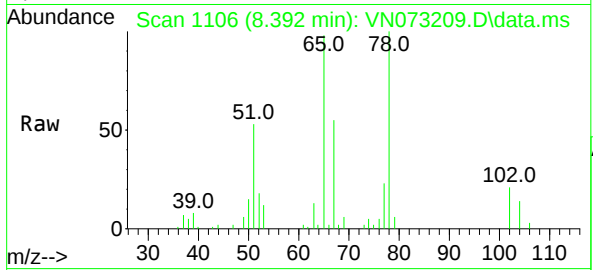




#40
Benzene
Concen: 3.850 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

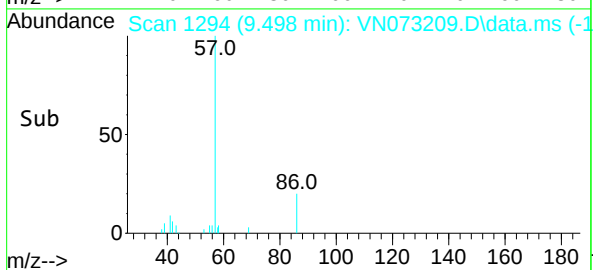
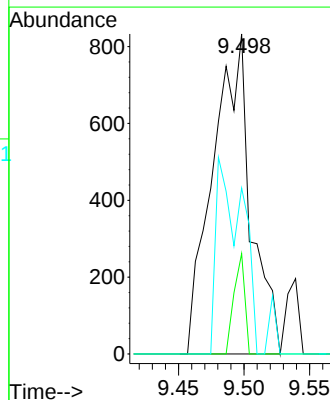
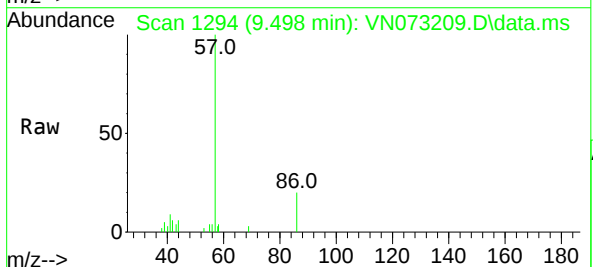
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

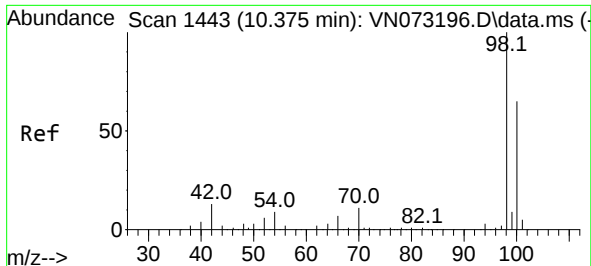
Tgt Ion: 78 Resp: 60889
Ion Ratio Lower Upper
78 100
77 23.4 19.4 29.0



#48
Methyl methacrylate
Concen: 0.326 ug/l
RT: 9.498 min Scan# 1294
Delta R.T. 0.006 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 41 Resp: 1679
Ion Ratio Lower Upper
41 100
69 8.8 74.7 112.1#
39 41.6 45.6 68.4#

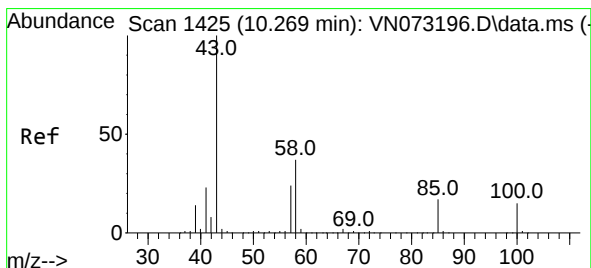
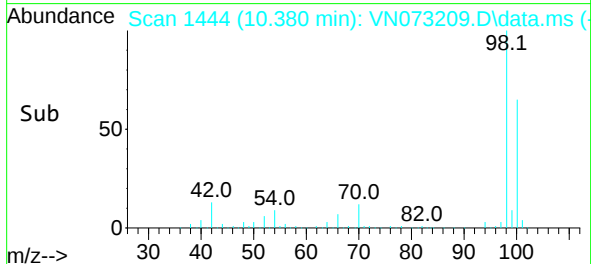
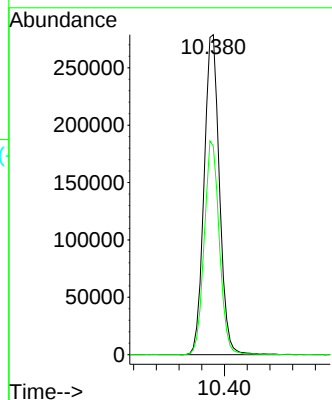
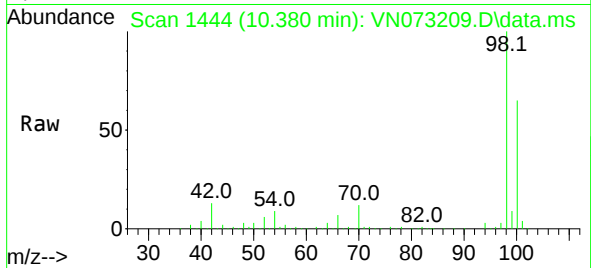




#50
Toluene-d8
Concen: 44.075 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.005 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

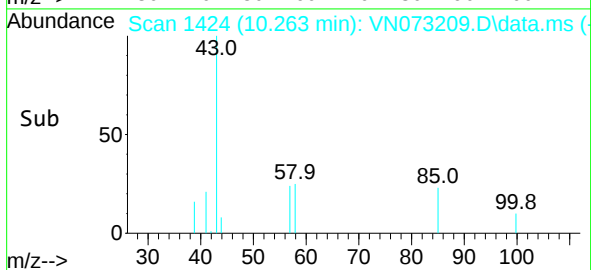
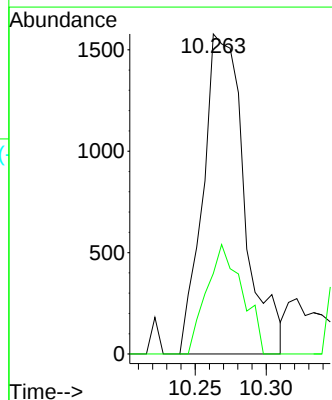
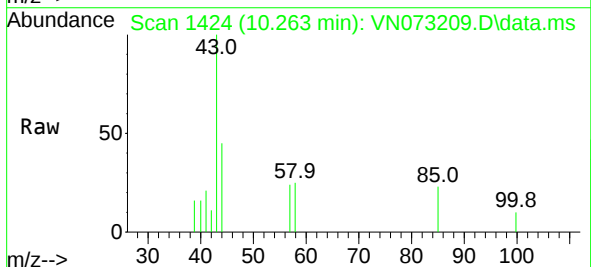
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

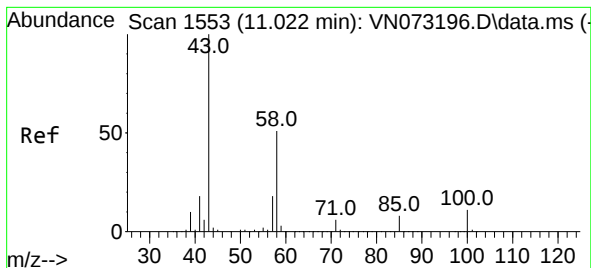
Tgt Ion: 98 Resp: 521305
Ion Ratio Lower Upper
98 100
100 65.7 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.455 ug/l
RT: 10.263 min Scan# 1424
Delta R.T. -0.006 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 43 Resp: 3210
Ion Ratio Lower Upper
43 100
58 29.4 34.1 51.1#

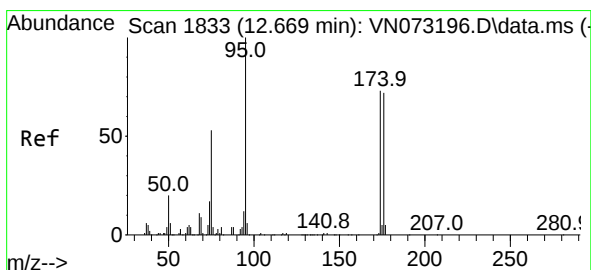
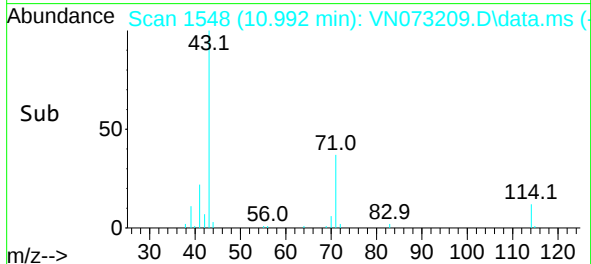
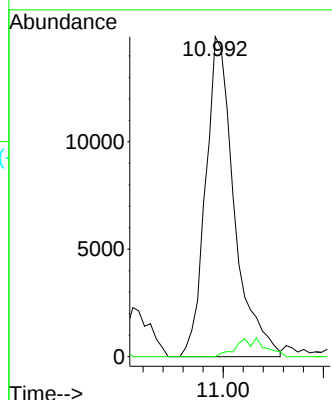
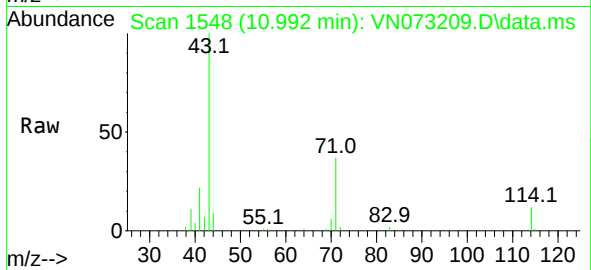




#59
2-Hexanone
Concen: 5.493 ug/l
RT: 10.992 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

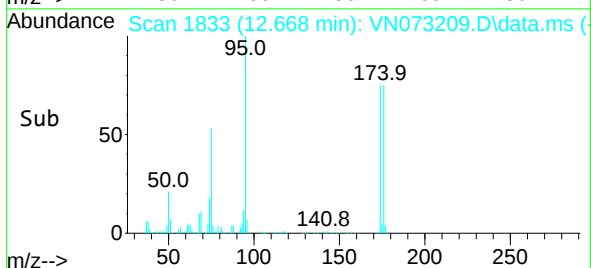
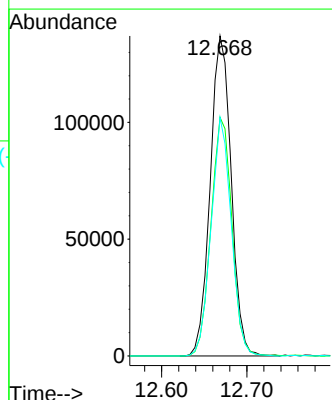
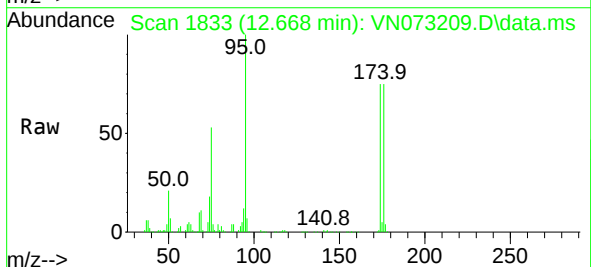
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

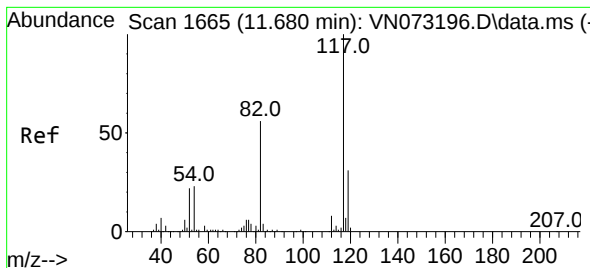
Tgt Ion: 43 Resp: 29548
Ion Ratio Lower Upper
43 100
58 0.0 29.7 89.1#



#62
4-Bromofluorobenzene
Concen: 51.563 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.001 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion: 95 Resp: 234369
Ion Ratio Lower Upper
95 100
174 74.4 0.0 167.6
176 71.5 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.680 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN073209.D

Acq: 28 Jun 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

SP-EXC-1-6DL

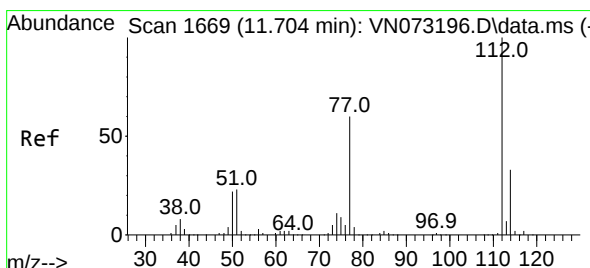
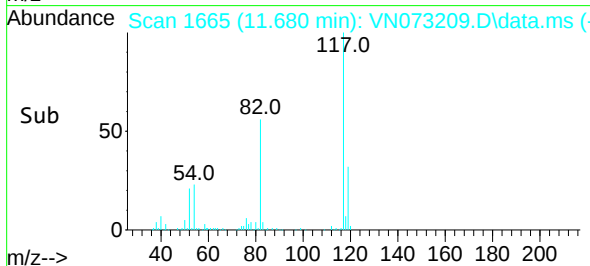
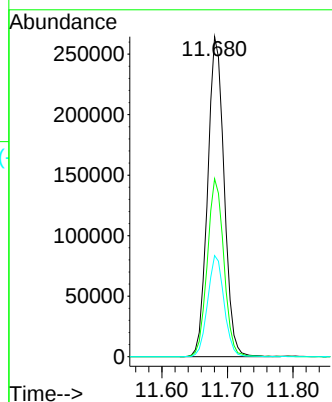
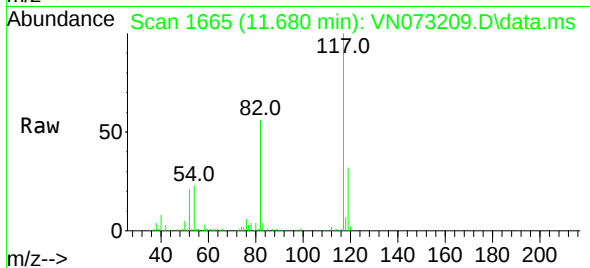
Tgt Ion:117 Resp: 462041

Ion Ratio Lower Upper

117 100

82 55.6 44.2 66.2

119 31.6 25.4 38.0



#65

Chlorobenzene

Concen: 21.291 ug/l

RT: 11.710 min Scan# 1670

Delta R.T. 0.006 min

Lab File: VN073209.D

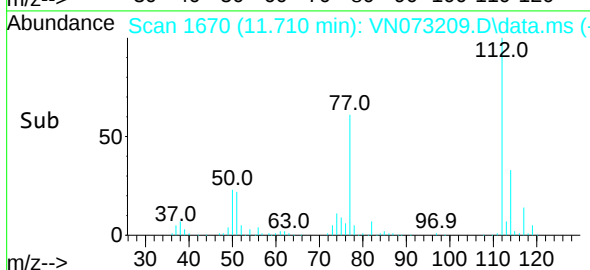
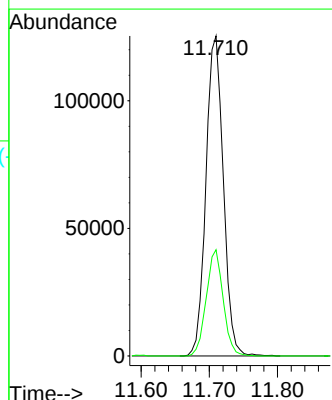
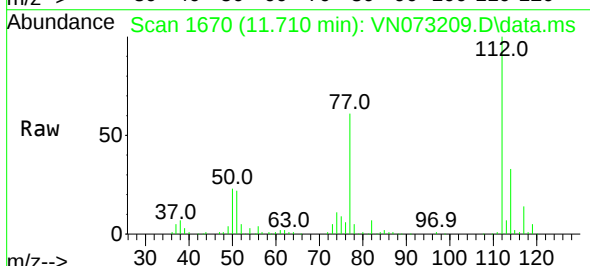
Acq: 28 Jun 2022 20:13

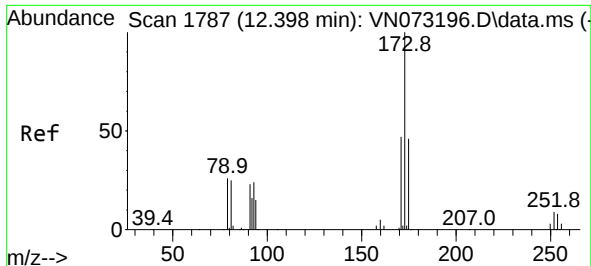
Tgt Ion:112 Resp: 222480

Ion Ratio Lower Upper

112 100

114 33.2 25.4 38.2

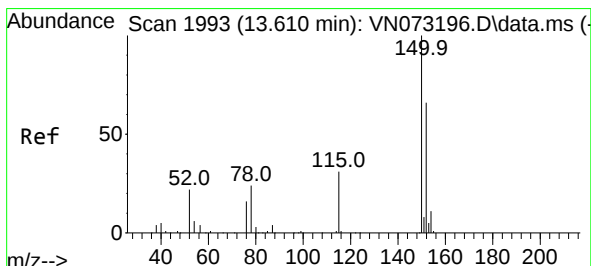
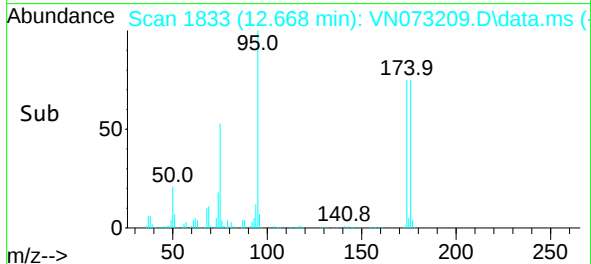
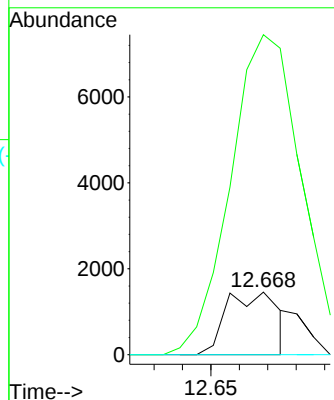
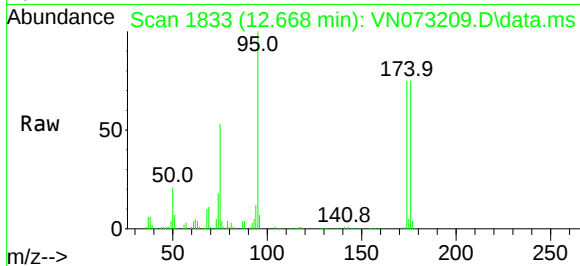




#71
Bromoform
Concen: 0.660 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.270 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

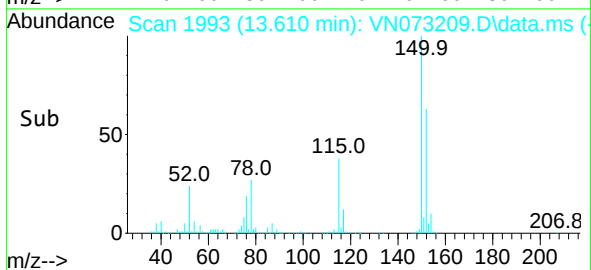
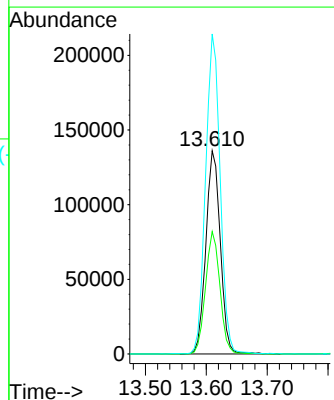
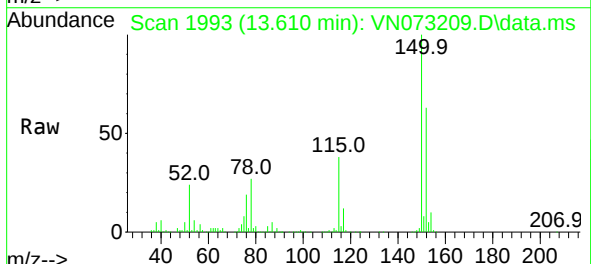
Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

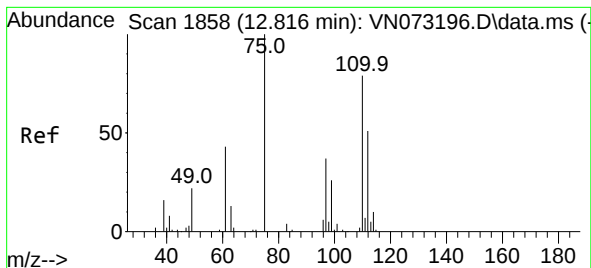
Tgt Ion:173 Resp: 1857
Ion Ratio Lower Upper
173 100
175 528.9 24.6 73.6#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. -0.000 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion:152 Resp: 224539
Ion Ratio Lower Upper
152 100
115 60.2 28.9 86.7
150 158.1 0.0 356.2





#76

1,2,3-Trichloropropane

Concen: 20.493 ug/l

RT: 12.668 min Scan# 1833

Delta R.T. -0.148 min

Lab File: VN073209.D

Acq: 28 Jun 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

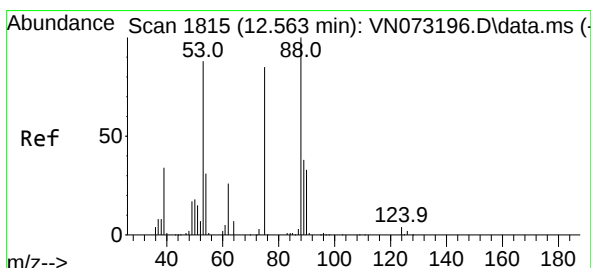
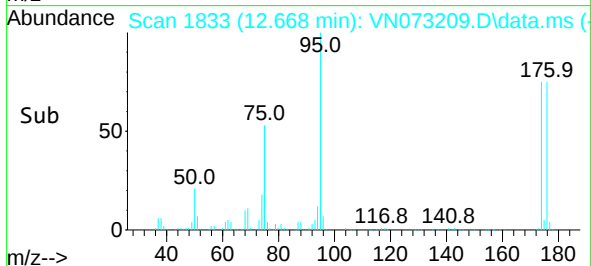
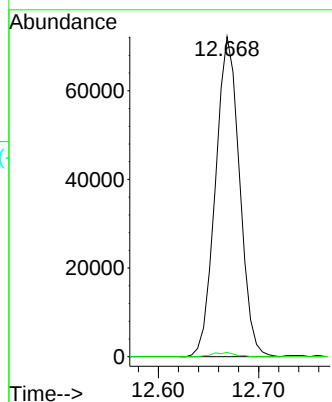
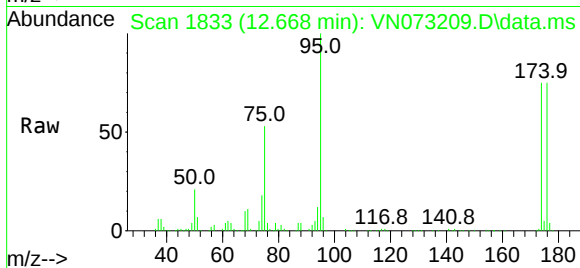
SP-EXC-1-6DL

Tgt Ion: 75 Resp: 120319

Ion Ratio Lower Upper

75 100

77 1.2 98.5 295.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.201 ug/l

RT: 12.668 min Scan# 1833

Delta R.T. 0.105 min

Lab File: VN073209.D

Acq: 28 Jun 2022 20:13

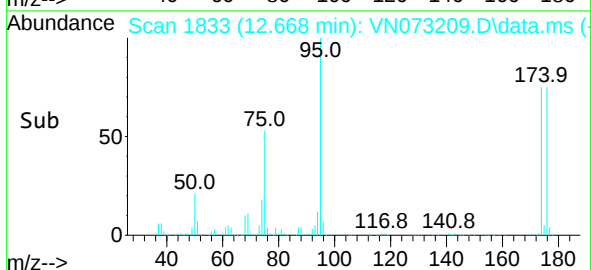
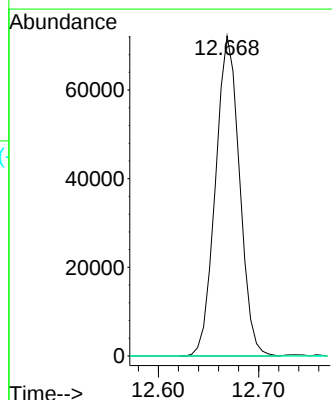
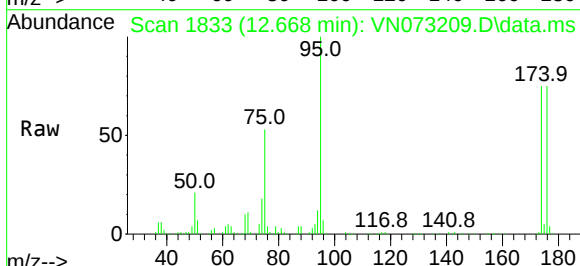
Tgt Ion: 75 Resp: 120319

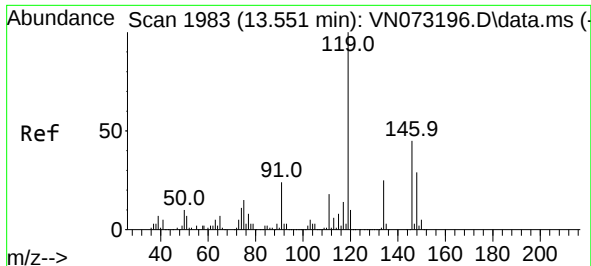
Ion Ratio Lower Upper

75 100

53 0.0 78.0 117.0#

89 0.0 37.2 55.8#





#87

1,3-Dichlorobenzene

Concen: 0.226 ug/l

RT: 13.551 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN073209.D

Acq: 28 Jun 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

SP-EXC-1-6DL

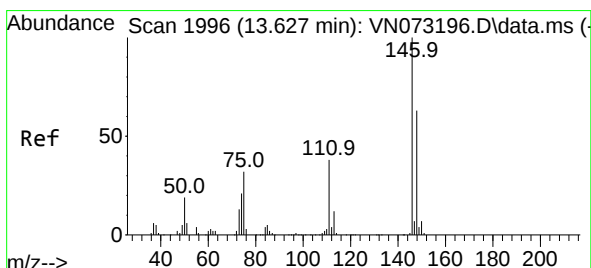
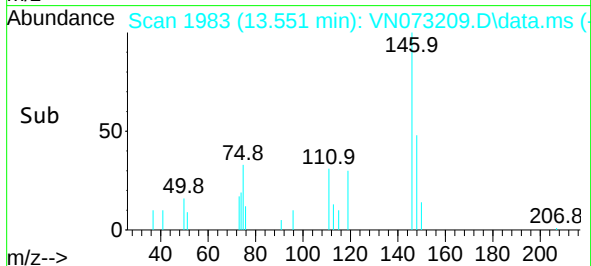
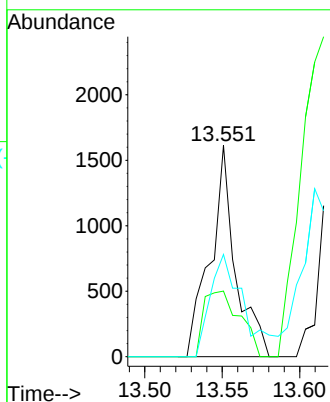
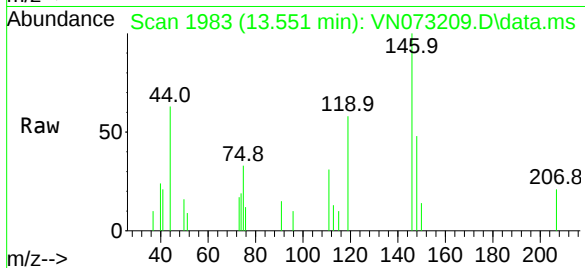
Tgt Ion:146 Resp: 1826

Ion Ratio Lower Upper

146 100

111 44.4 20.0 60.0

148 66.0 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.225 ug/l

RT: 13.551 min Scan# 1983

Delta R.T. -0.076 min

Lab File: VN073209.D

Acq: 28 Jun 2022 20:13

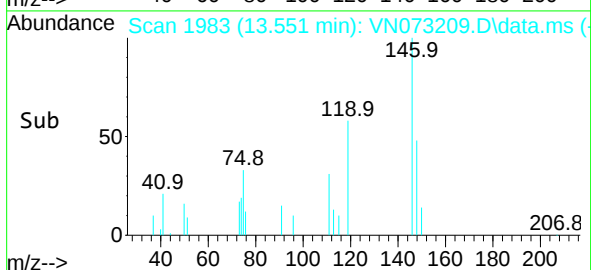
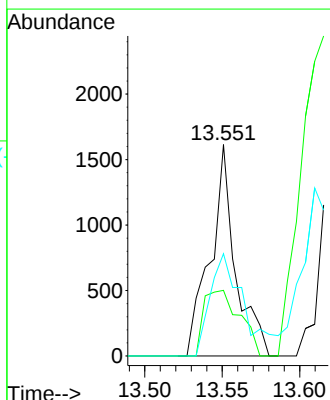
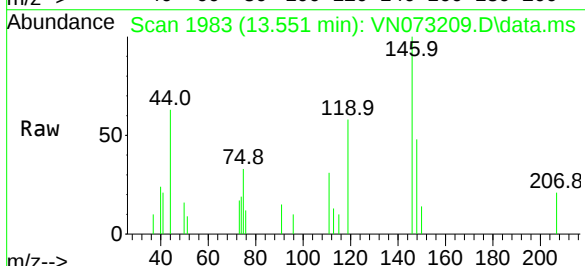
Tgt Ion:146 Resp: 1826

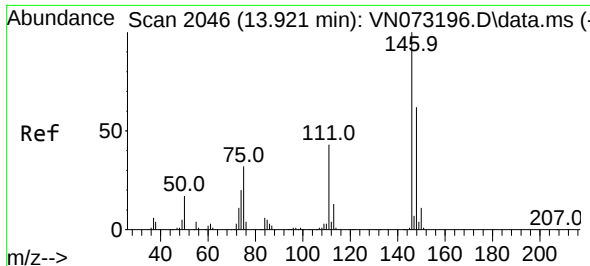
Ion Ratio Lower Upper

146 100

111 44.4 19.1 57.1

148 66.0 31.4 94.3





#91

1,2-Dichlorobenzene

Concen: 0.650 ug/l

RT: 13.921 min Scan# 2046

Delta R.T. 0.000 min

Lab File: VN073209.D

Acq: 28 Jun 2022 20:13

Instrument :

MSVOA_N

ClientSampleId :

SP-EXC-1-6DL

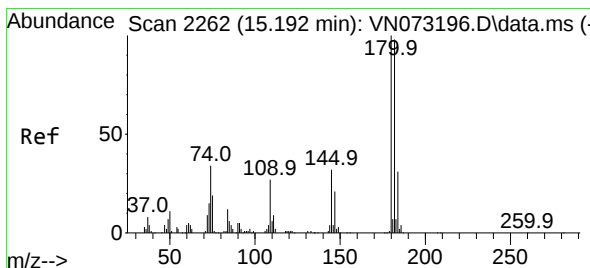
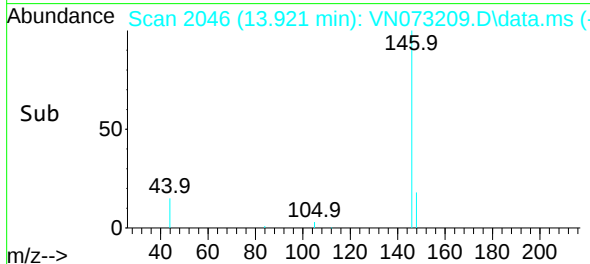
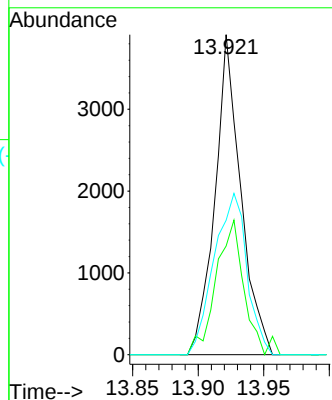
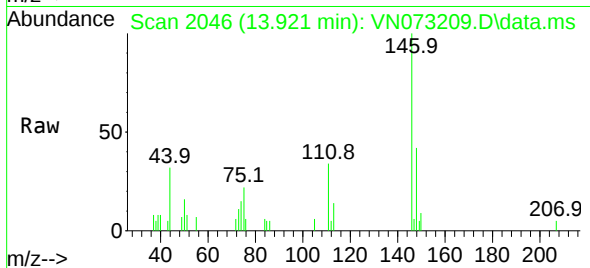
Tgt Ion:146 Resp: 5353

Ion Ratio Lower Upper

146 100

111 46.1 20.9 62.8

148 64.0 32.1 96.3



#93

1,2,4-Trichlorobenzene

Concen: 0.490 ug/l

RT: 15.198 min Scan# 2263

Delta R.T. 0.006 min

Lab File: VN073209.D

Acq: 28 Jun 2022 20:13

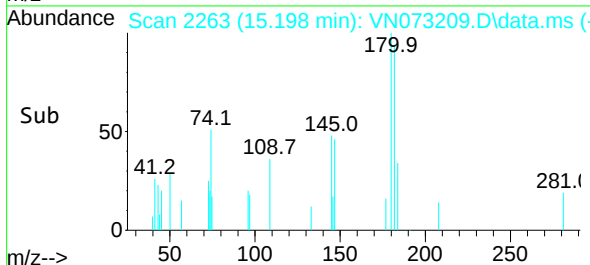
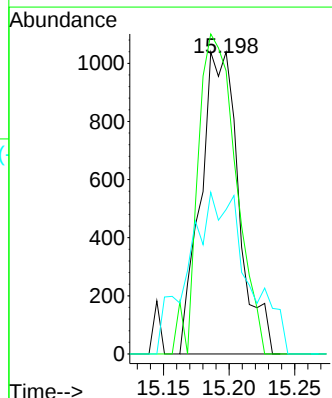
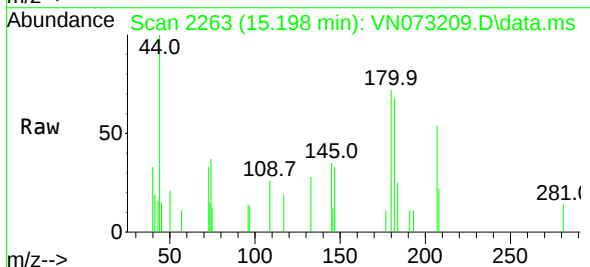
Tgt Ion:180 Resp: 2102

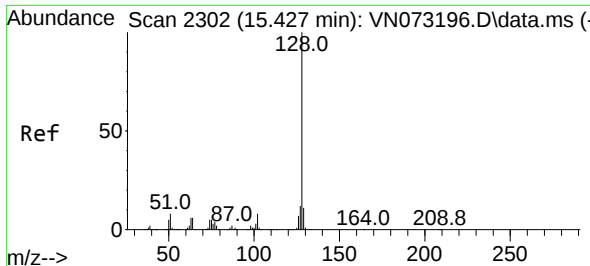
Ion Ratio Lower Upper

180 100

182 106.1 47.5 142.5

145 83.5 14.5 43.5#

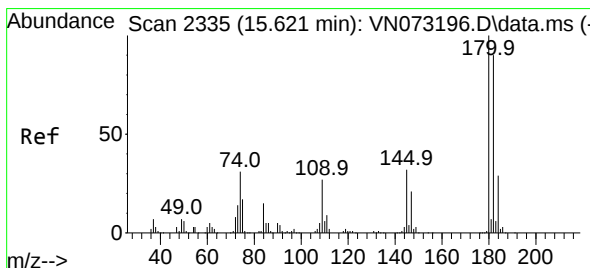
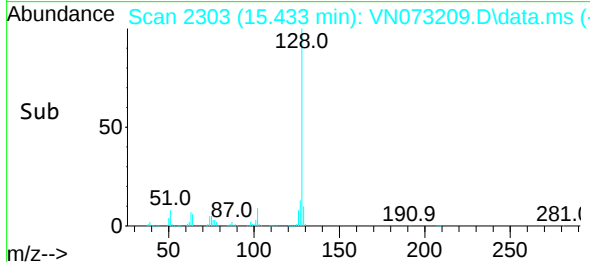
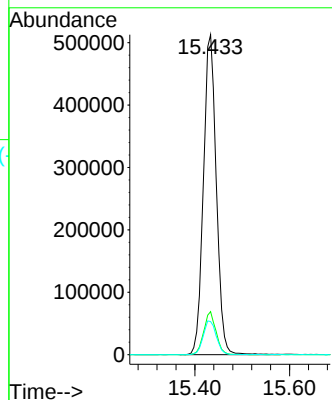
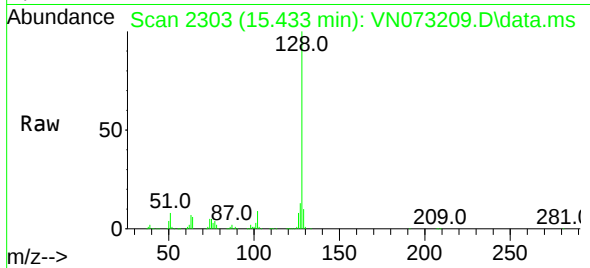




#95
Naphthalene
Concen: 55.974 ug/l
RT: 15.433 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Instrument :
MSVOA_N
ClientSampleId :
SP-EXC-1-6DL

Tgt Ion:128 Resp: 968651
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 10.8 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 0.680 ug/l
RT: 15.633 min Scan# 2337
Delta R.T. 0.012 min
Lab File: VN073209.D
Acq: 28 Jun 2022 20:13

Tgt Ion:180 Resp: 3008
Ion Ratio Lower Upper
180 100
182 57.4 47.8 143.3
145 48.5 15.5 46.5#

