

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110221\
 Data File : VN069342.D
 Acq On : 2 Nov 2021 12:33
 Operator : JC/MD
 Sample : M4438-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 03 00:47:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102821W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 28 16:09:15 2021
 Response via : Initial Calibration

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

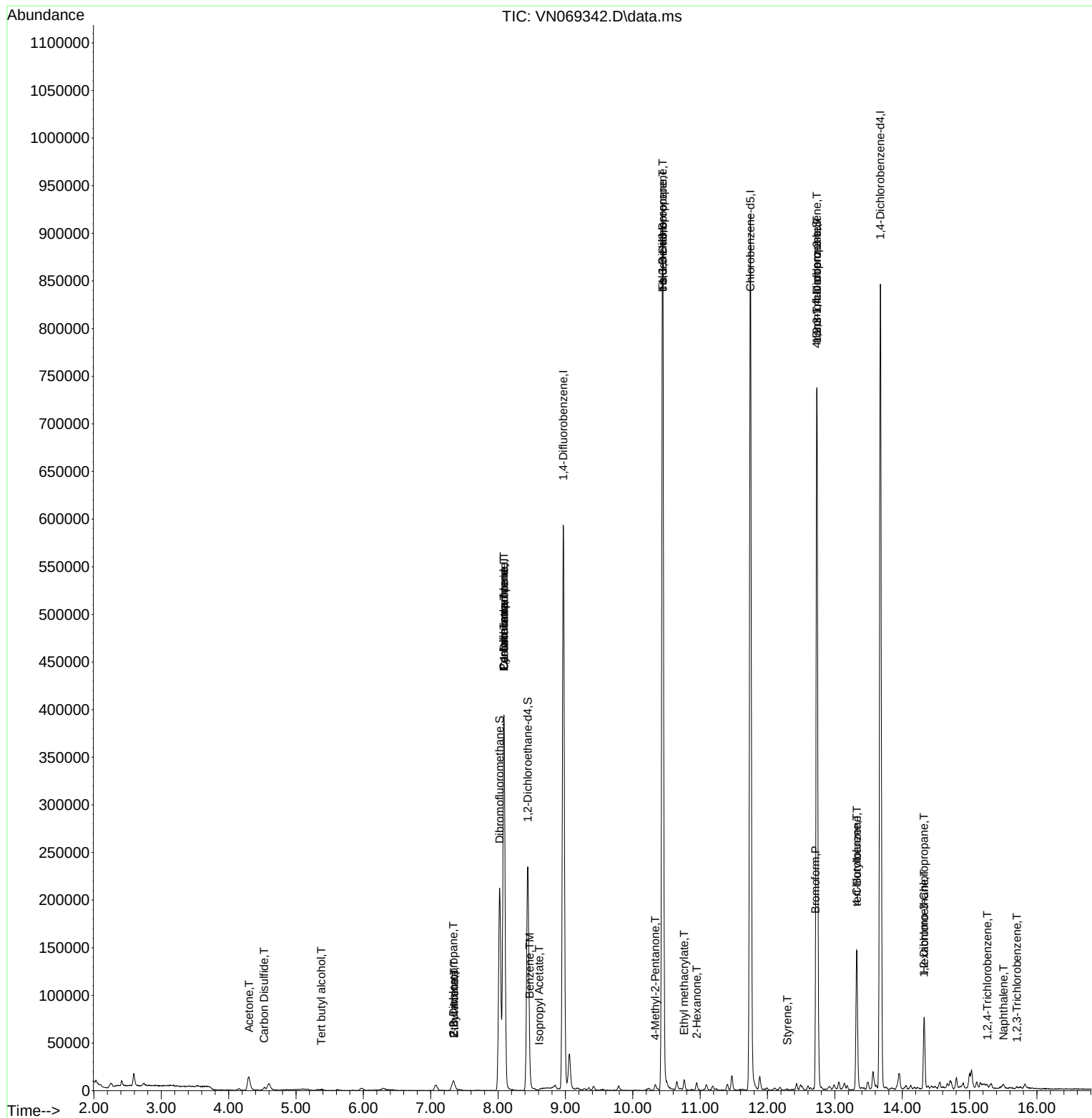
Internal Standards						
1) Pentafluorobenzene	8.088	168	296613	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	531184	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	545408	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	226920	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	204561	47.775	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.560%		
35) Dibromofluoromethane	8.024	113	154644	46.703	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	93.400%		
50) Toluene-d8	10.443	98	669638	50.580	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.160%		
62) 4-Bromofluorobenzene	12.731	95	264037	52.851	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	105.700%		
Target Compounds						Qvalue
3) Chloromethane	2.306	50	407	Below Cal	#	42
11) Tert butyl alcohol	5.377	59	215	13.652	ug/l #	72
16) Acetone	4.301	43	28478	15.611	ug/l	96
17) Carbon Disulfide	4.527	76	5972	0.841	ug/l	99
25) 2-Butanone	7.348	43	8223	4.556	ug/l	99
26) 2,2-Dichloropropane	7.335	77	281	0.888	ug/l #	53
31) Cyclohexane	8.086	56	7445	1.299	ug/l #	20
36) 1,1-Dichloropropene	8.088	75	24439	5.337	ug/l #	49
37) Ethyl Acetate	7.348	43	8223	1.576	ug/l #	69
38) Carbon Tetrachloride	8.086	117	31144	6.869	ug/l #	16
40) Benzene	8.469	78	5933	0.431	ug/l	97
43) Isopropyl Acetate	8.611	43	312	0.493	ug/l #	55
51) 4-Methyl-2-Pentanone	10.333	43	4952	7.217	ug/l	91
53) t-1,3-Dichloropropene	10.443	75	49	1.947	ug/l #	1
54) cis-1,3-Dichloropropene	10.443	75	49	1.535	ug/l #	26
56) Ethyl methacrylate	10.762	69	6542	2.633	ug/l	96
59) 2-Hexanone	10.950	43	5602	9.197	ug/l	70
70) Styrene	12.296	104	464	1.490	ug/l #	66
71) Bromoform	12.712	173	48	2.887	ug/l #	29
76) 1,2,3-Trichloropropane	12.733	75	140870	23.603	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	140870	67.841	ug/l #	12
82) 4-Chlorotoluene	13.324	91	50625	3.775	ug/l #	42
83) tert-Butylbenzene	13.326	119	71569	5.180	ug/l	97
90) Hexachloroethane	14.324	117	2251	2.746	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.321	75	151	1.774	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.265	180	941	2.730	ug/l #	88
95) Naphthalene	15.504	128	4854	3.707	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.702	180	1028	2.480	ug/l	91

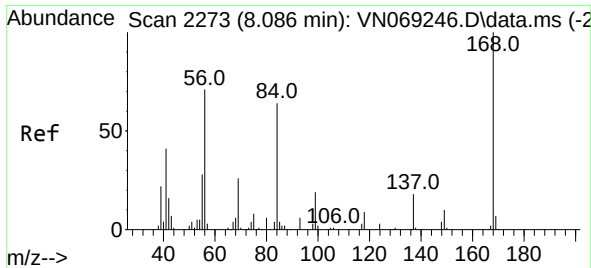
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 28 16:09:15 2021
Response via : Initial Calibration

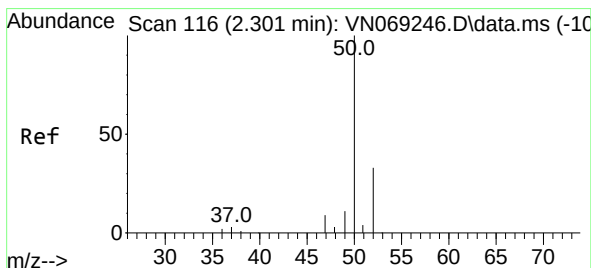
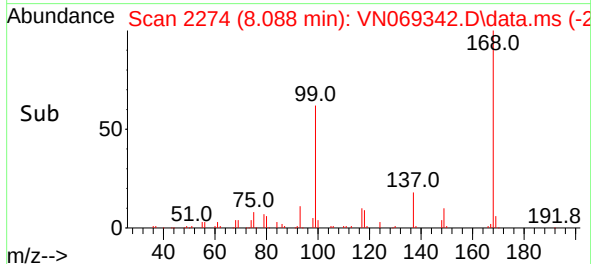
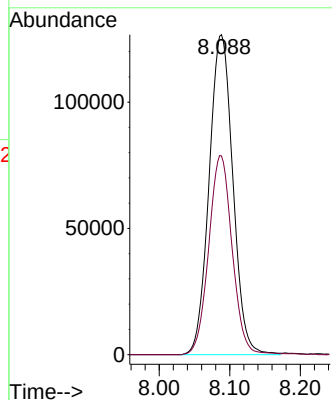
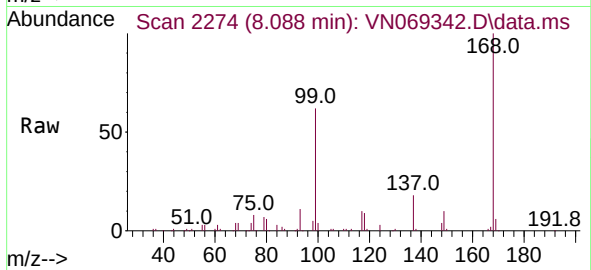




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

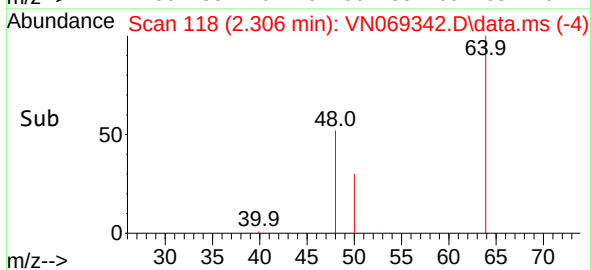
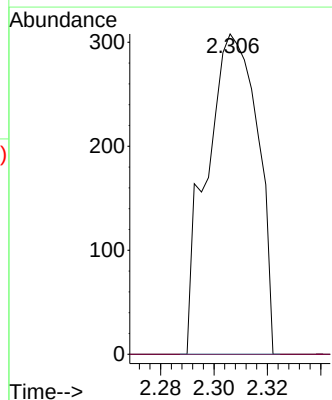
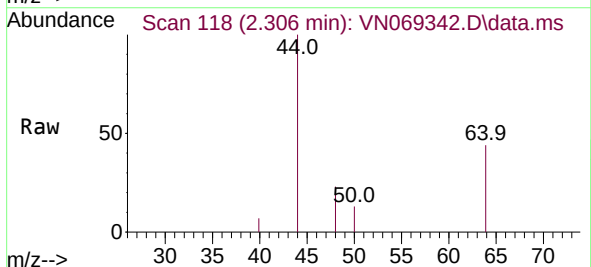
Instrument :
MSVOA_N
ClientSampleId :

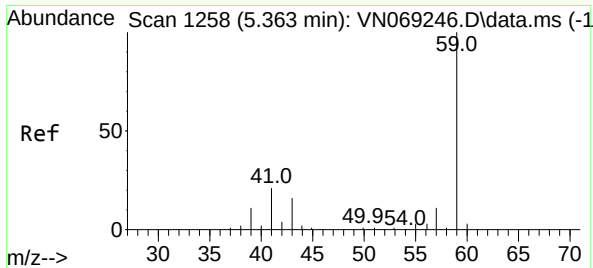
Tgt Ion:168 Resp: 296613
Ion Ratio Lower Upper
168 100
99 62.1 48.9 73.3



#3
Chloromethane
Concen: Below Cal
RT: 2.306 min Scan# 118
Delta R.T. 0.005 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

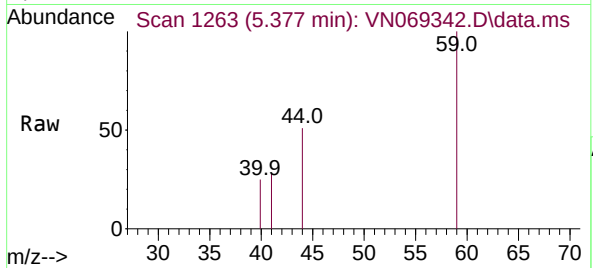
Tgt Ion: 50 Resp: 407
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#



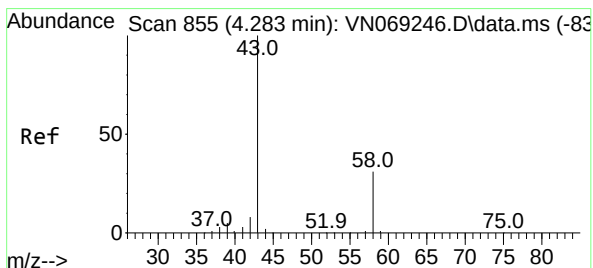
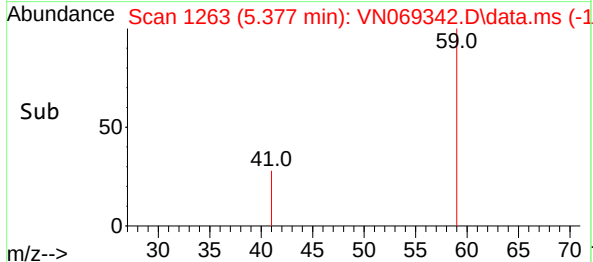
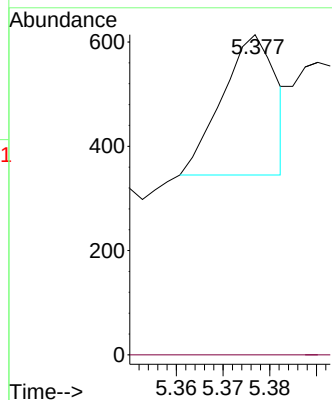


#11
Tert butyl alcohol
Concen: 13.652 ug/l
RT: 5.377 min Scan# 11
Delta R.T. 0.014 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Instrument :
MSVOA_N
ClientSampleId :

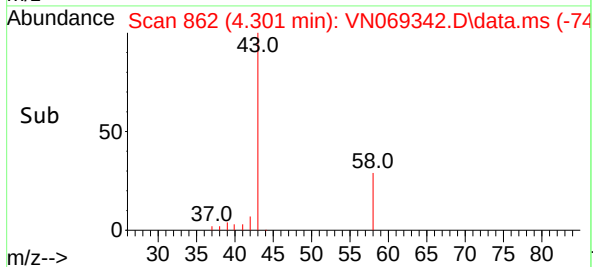
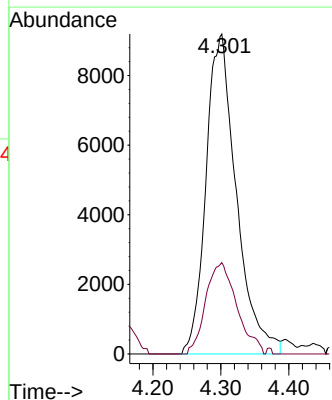
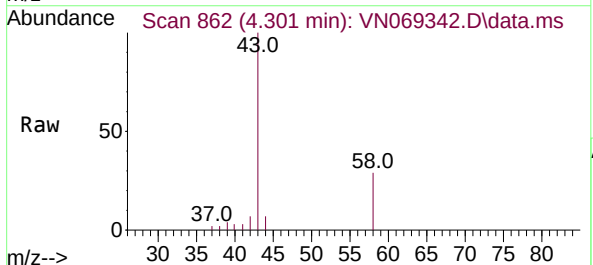


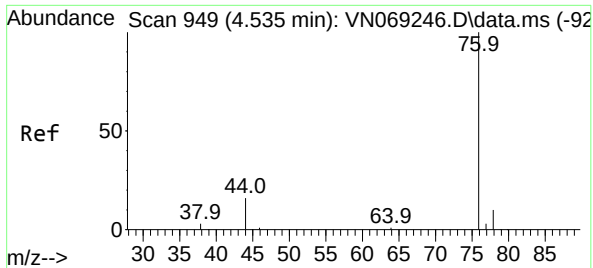
Tgt Ion: 59 Resp: 215
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 15.611 ug/l
RT: 4.301 min Scan# 862
Delta R.T. 0.018 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion: 43 Resp: 28478
Ion Ratio Lower Upper
43 100
58 28.5 24.5 36.7

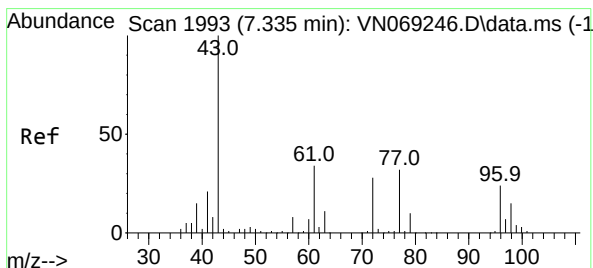
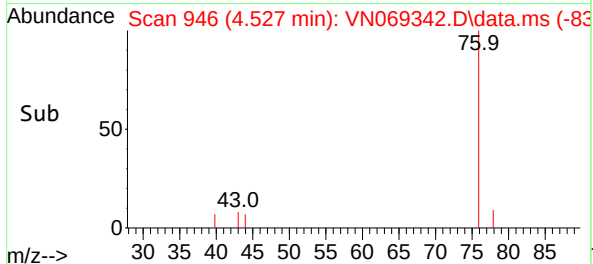
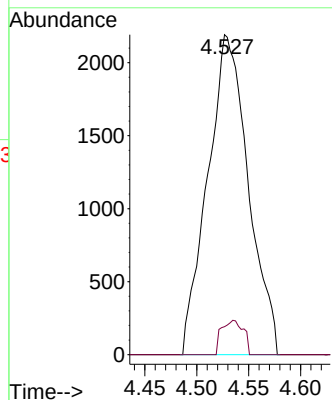
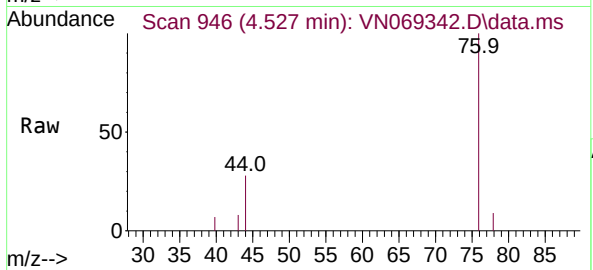




#17
Carbon Disulfide
Concen: 0.841 ug/l
RT: 4.527 min Scan# 949
Delta R.T. -0.008 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

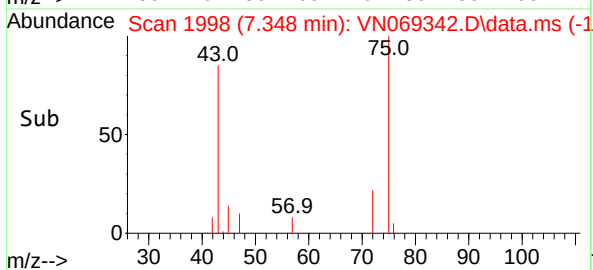
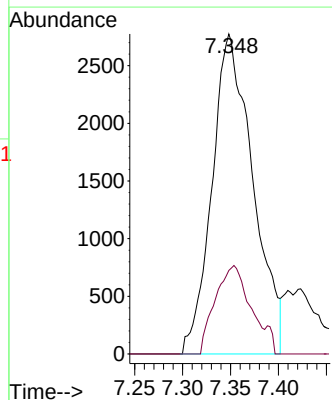
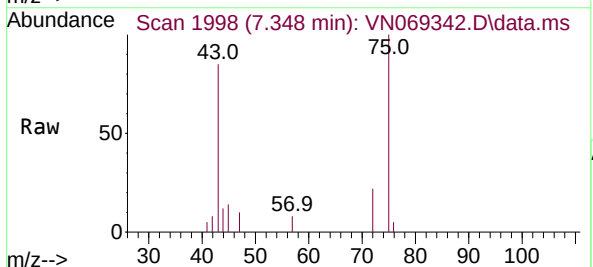
Instrument :
MSVOA_N
ClientSampleId :

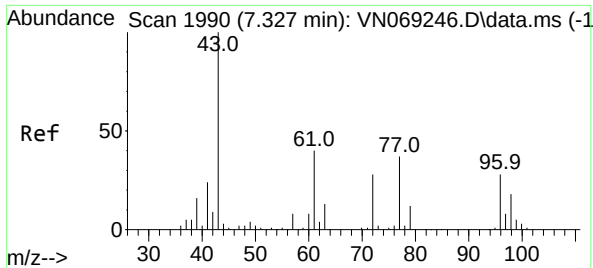
Tgt Ion: 76 Resp: 5972
Ion Ratio Lower Upper
76 100
78 8.8 7.2 10.8



#25
2-Butanone
Concen: 4.556 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. 0.013 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion: 43 Resp: 8223
Ion Ratio Lower Upper
43 100
72 26.1 21.2 31.8





#26

2,2-Dichloropropane

Concen: 0.888 ug/l

RT: 7.335 min Scan# 1990

Delta R.T. 0.008 min

Lab File: VN069342.D

Acq: 2 Nov 2021 12:33

Instrument :

MSVOA_N

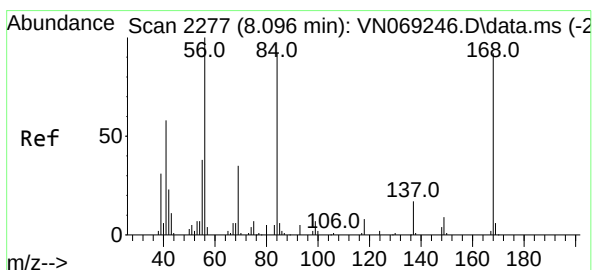
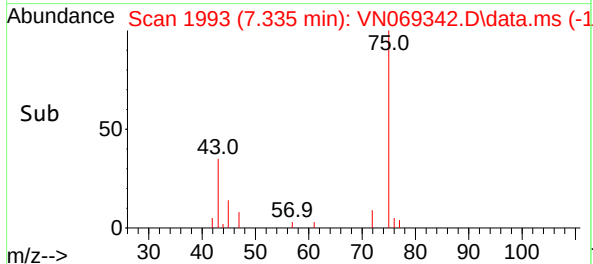
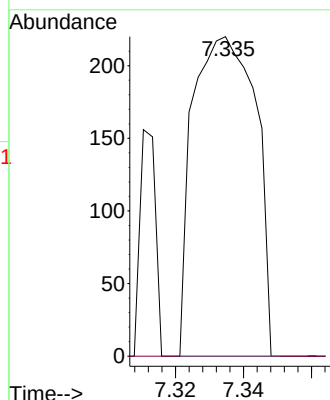
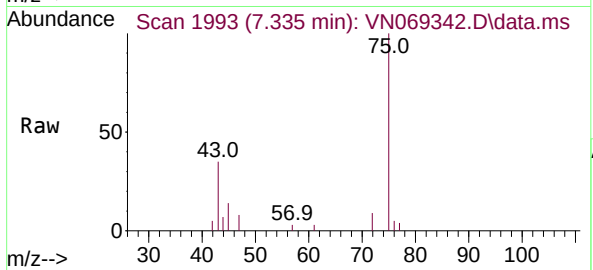
ClientSampleId :

Tgt Ion: 77 Resp: 281

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#



#31

Cyclohexane

Concen: 1.299 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.010 min

Lab File: VN069342.D

Acq: 2 Nov 2021 12:33

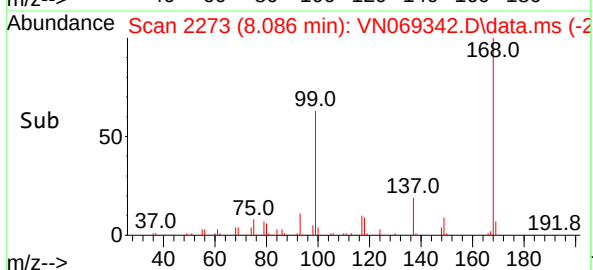
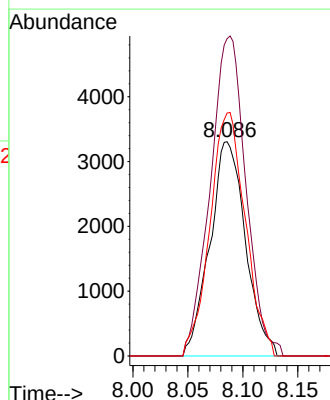
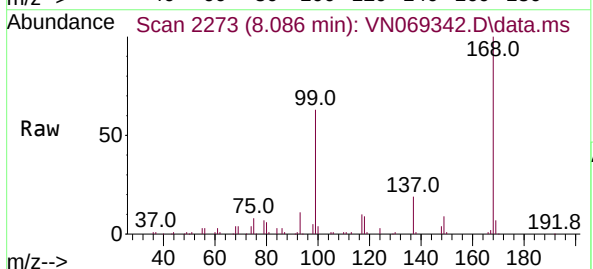
Tgt Ion: 56 Resp: 7445

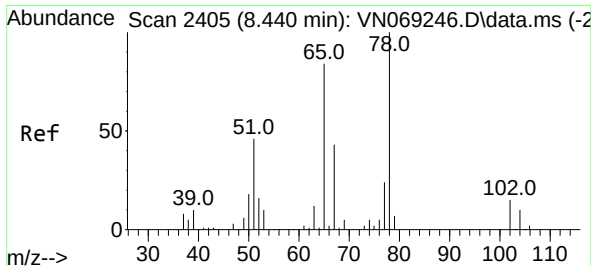
Ion Ratio Lower Upper

56 100

69 148.1 26.9 40.3#

84 113.3 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 47.775 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN069342.D

Acq: 2 Nov 2021 12:33

Instrument :

MSVOA_N

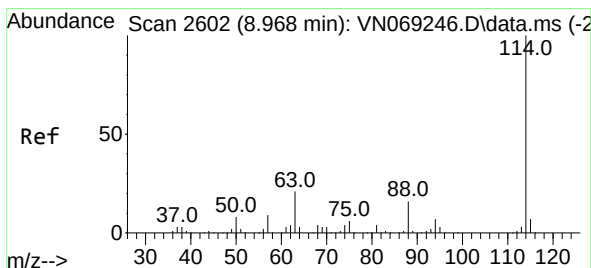
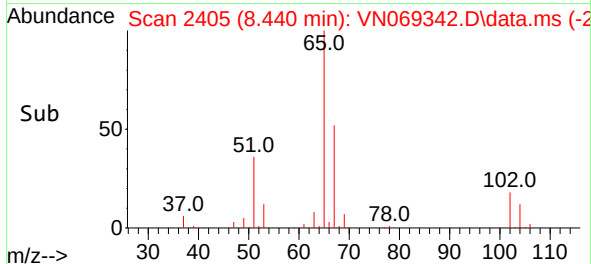
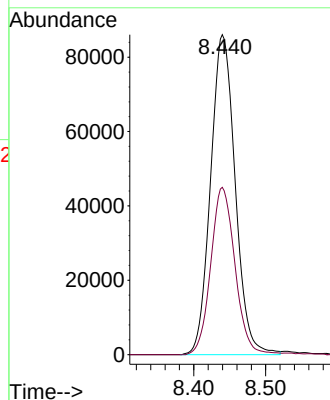
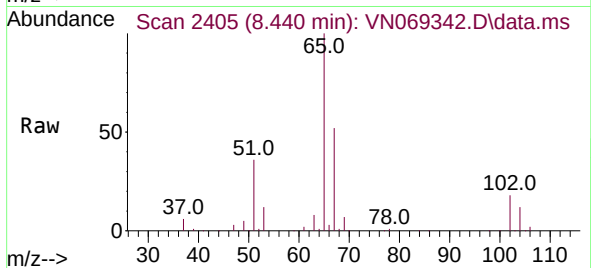
ClientSampleId :

Tgt Ion: 65 Resp: 204561

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN069342.D

Acq: 2 Nov 2021 12:33

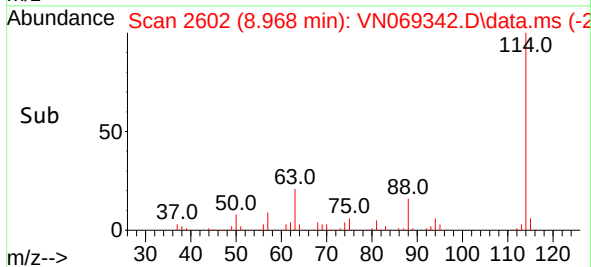
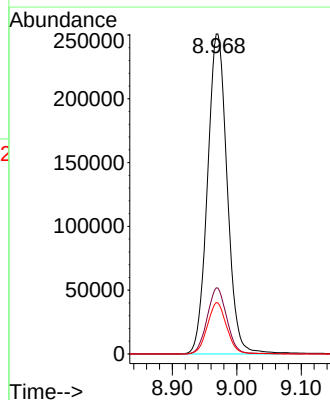
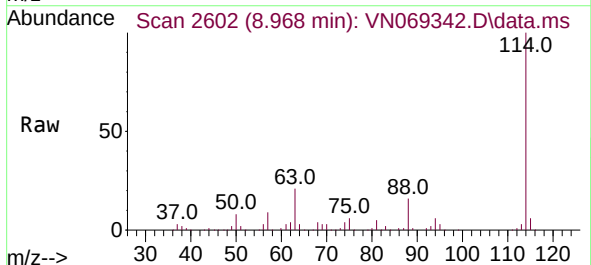
Tgt Ion: 114 Resp: 531184

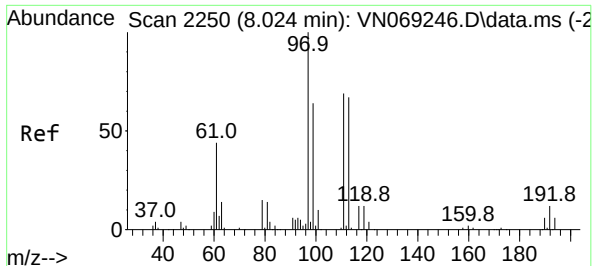
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

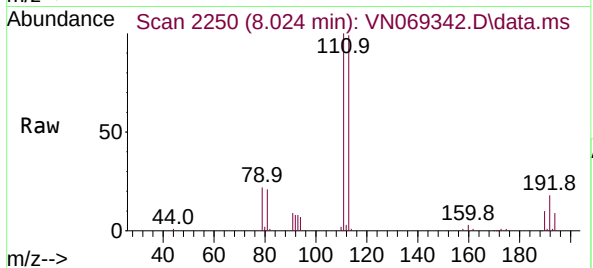
88 16.0 0.0 32.0



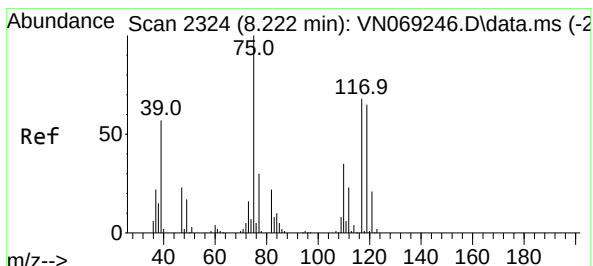
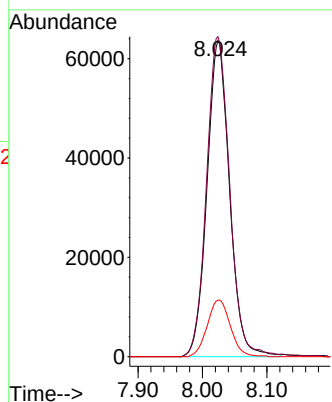
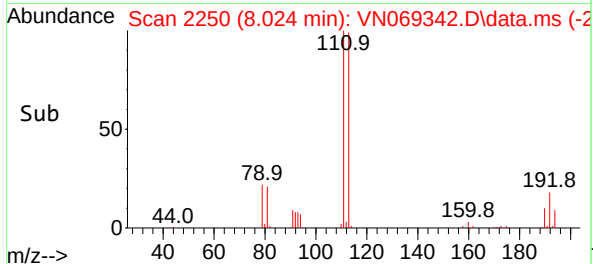


#35
Dibromofluoromethane
Concen: 46.703 ug/l
RT: 8.024 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Instrument :
MSVOA_N
ClientSampleId :

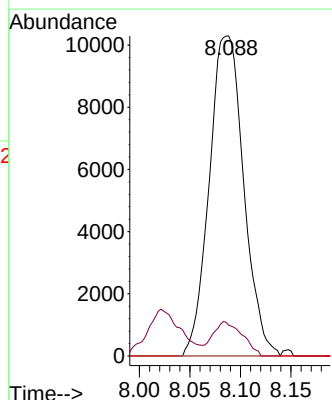
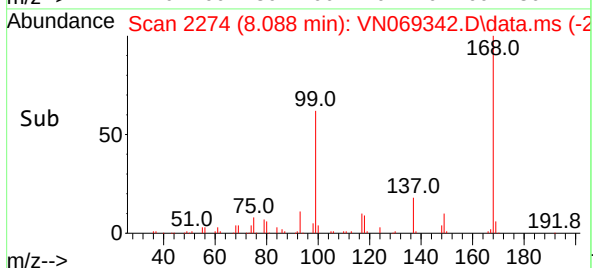
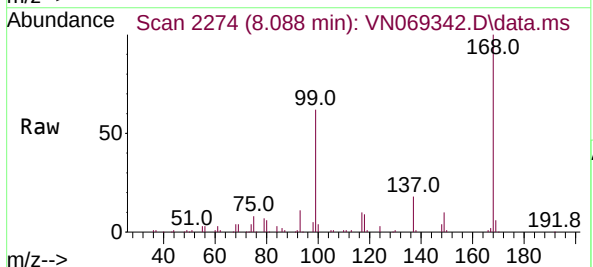


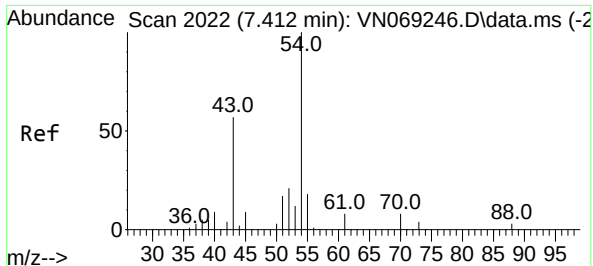
Tgt Ion:113 Resp: 154644
Ion Ratio Lower Upper
113 100
111 103.8 83.2 124.8
192 18.4 15.0 22.4



#36
1,1-Dichloropropene
Concen: 5.337 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion: 75 Resp: 24439
Ion Ratio Lower Upper
75 100
110 9.1 17.9 53.8#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.576 ug/l

RT: 7.348 min Scan# 1998

Delta R.T. -0.064 min

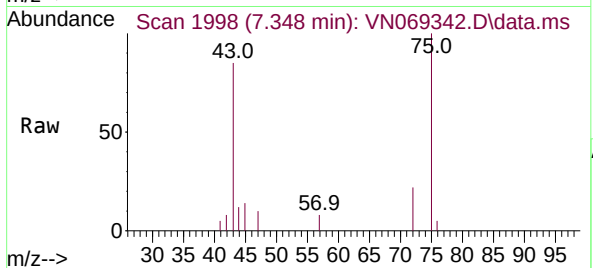
Lab File: VN069342.D

Acq: 2 Nov 2021 12:33

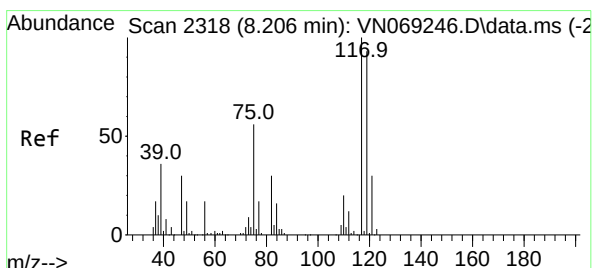
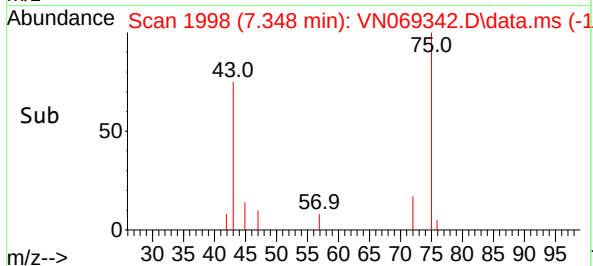
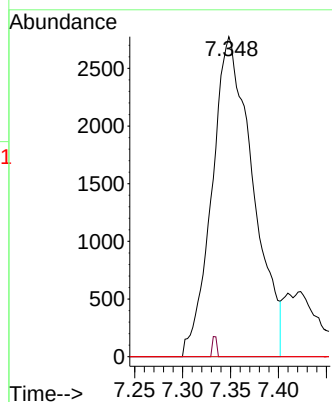
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	8223
Ion	Ratio	Lower	Upper
43	100		
61	0.7	11.2	16.8#
70	0.0	8.4	12.6#



#38

Carbon Tetrachloride

Concen: 6.869 ug/l

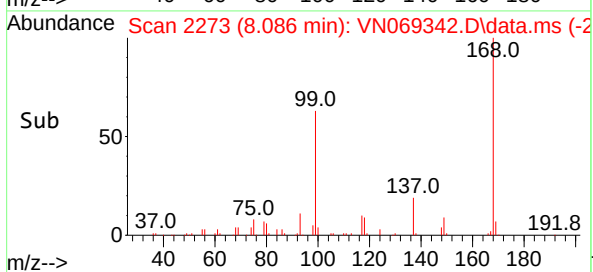
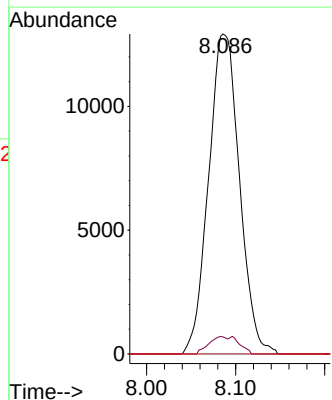
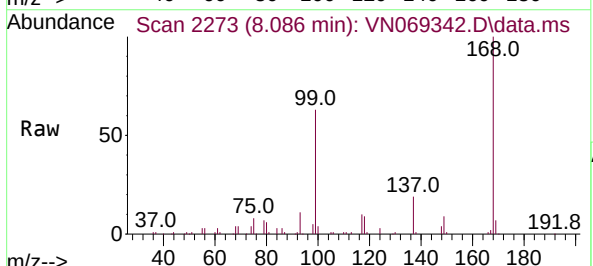
RT: 8.086 min Scan# 2273

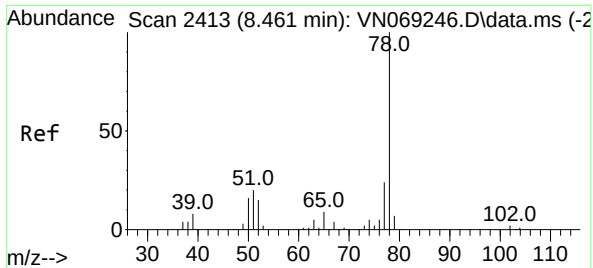
Delta R.T. -0.120 min

Lab File: VN069342.D

Acq: 2 Nov 2021 12:33

Tgt Ion:	117	Resp:	31144
Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.9	115.3#
121	0.0	24.6	37.0#

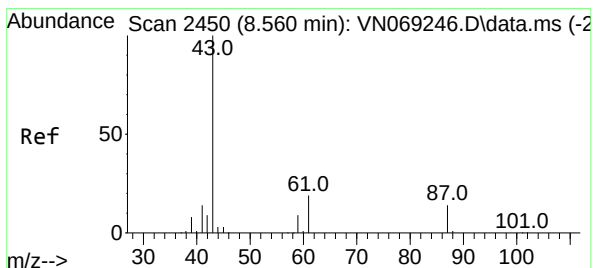
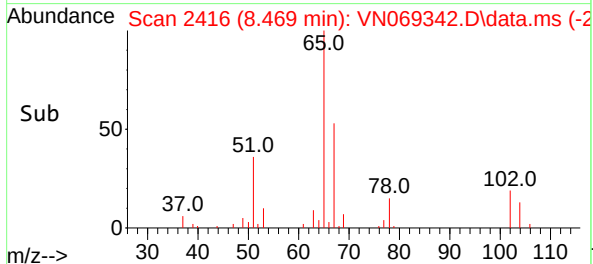
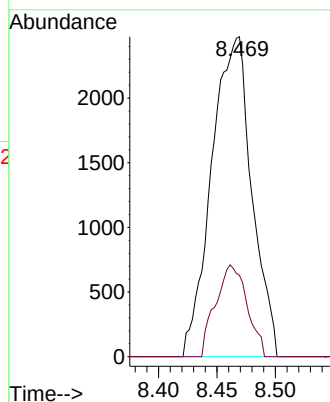
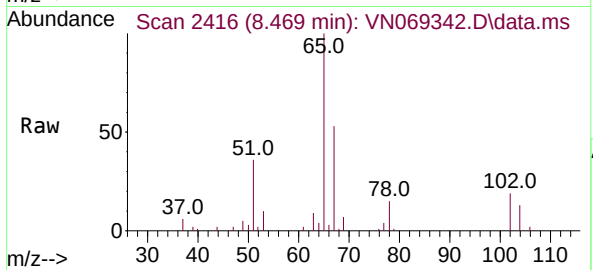




#40
Benzene
Concen: 0.431 ug/l
RT: 8.469 min Scan# 2413
Delta R.T. 0.008 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

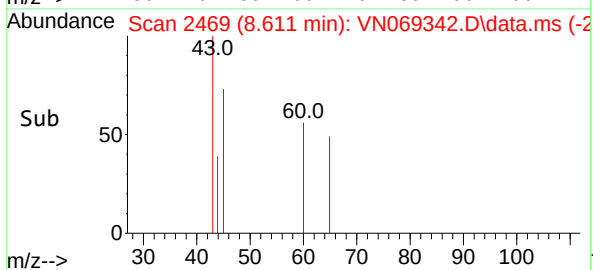
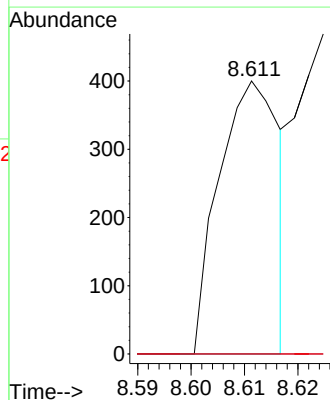
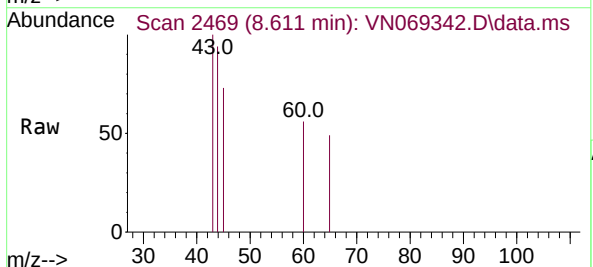
Instrument :
MSVOA_N
ClientSampleId :

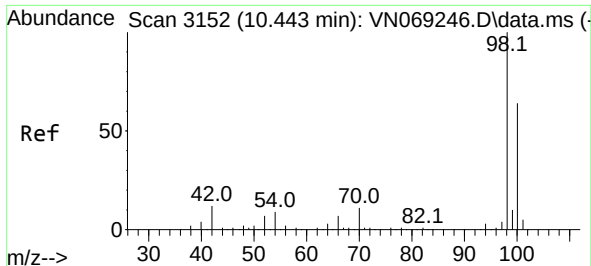
Tgt Ion: 78 Resp: 5933
Ion Ratio Lower Upper
78 100
77 25.5 19.1 28.7



#43
Isopropyl Acetate
Concen: 0.493 ug/l
RT: 8.611 min Scan# 2469
Delta R.T. 0.051 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion: 43 Resp: 312
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 10.7 16.1#

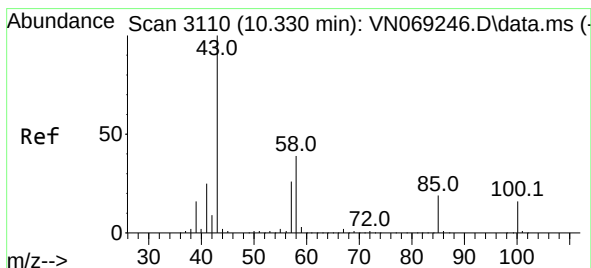
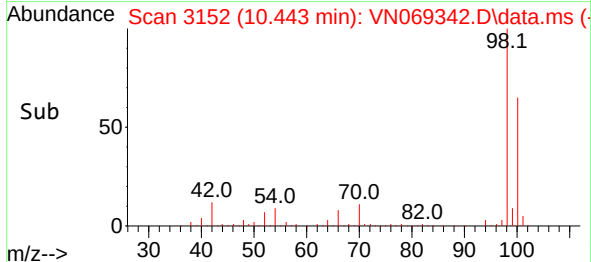
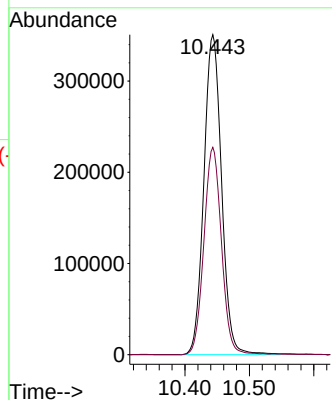
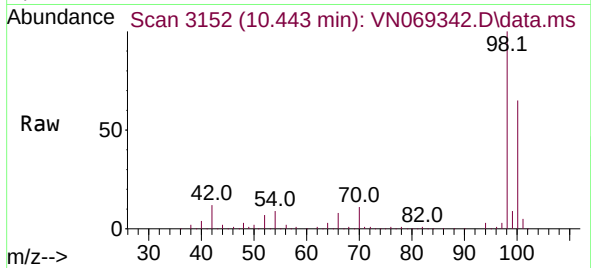




#50
Toluene-d8
Concen: 50.580 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

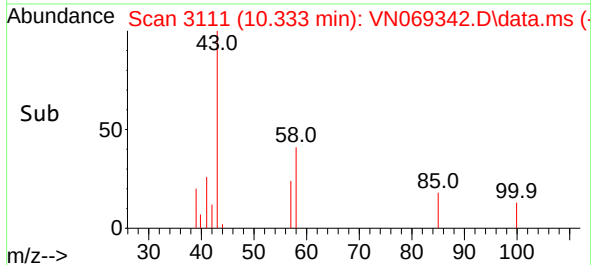
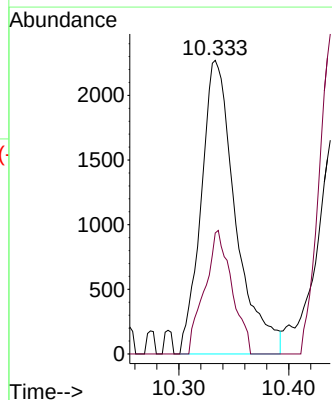
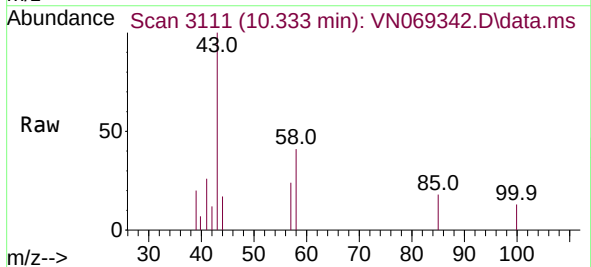
Instrument :
MSVOA_N
ClientSampleId :

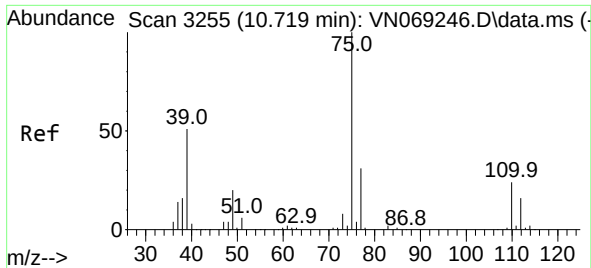
Tgt Ion: 98 Resp: 669638
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 7.217 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.003 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion: 43 Resp: 4952
Ion Ratio Lower Upper
43 100
58 33.2 31.0 46.4

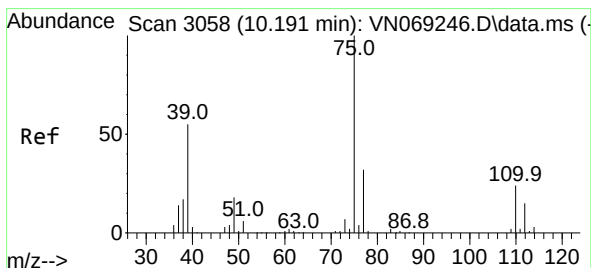
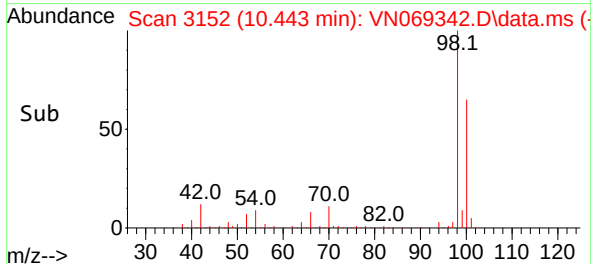
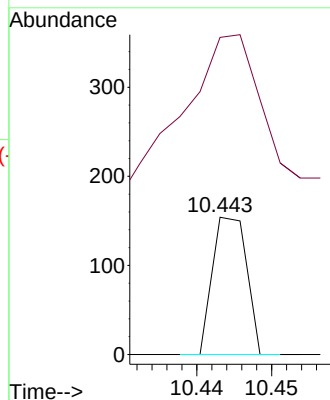
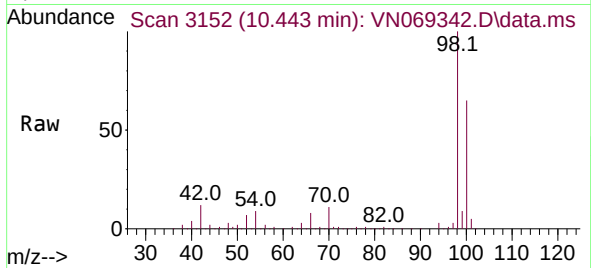




#53
t-1,3-Dichloropropene
Concen: 1.947 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. -0.276 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

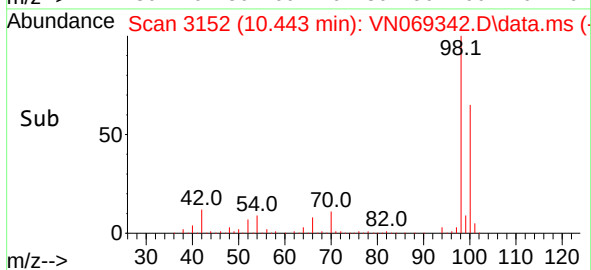
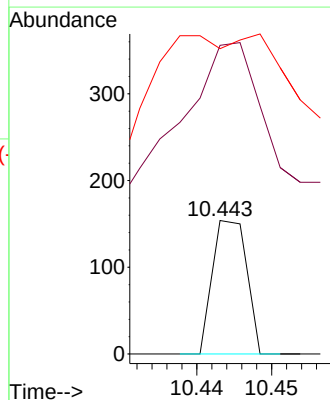
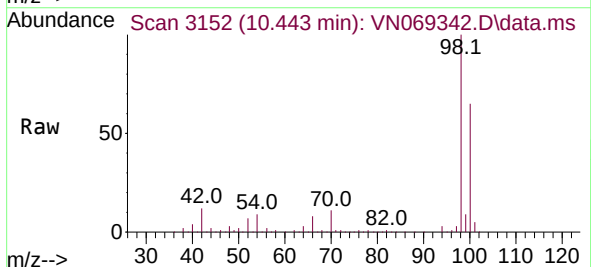
Instrument :
MSVOA_N
ClientSampleId :

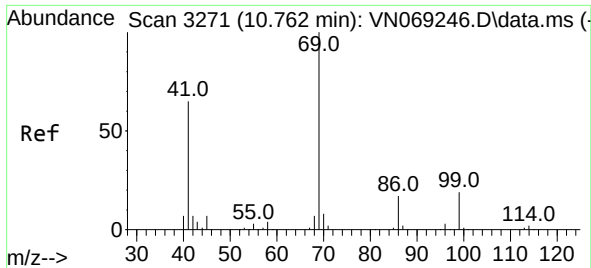
Tgt Ion: 75 Resp: 49
Ion Ratio Lower Upper
75 100
77 91.6 25.4 38.2#



#54
cis-1,3-Dichloropropene
Concen: 1.535 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.252 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion: 75 Resp: 49
Ion Ratio Lower Upper
75 100
77 91.6 25.6 38.4#
39 14.3 42.9 64.3#

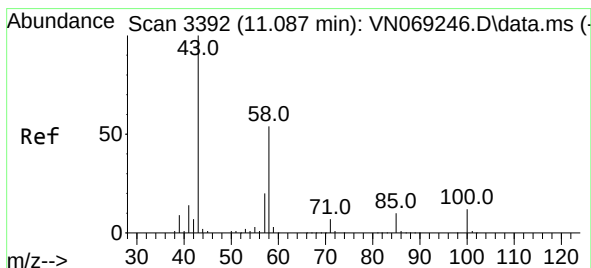
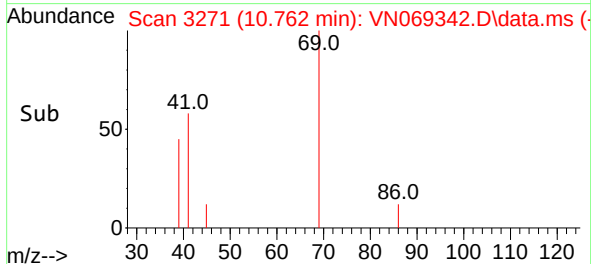
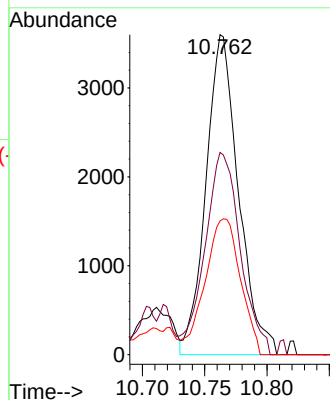
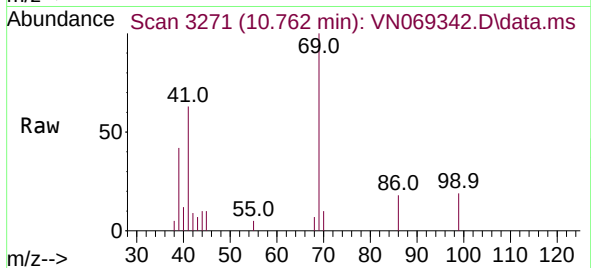




#56
Ethyl methacrylate
Concen: 2.633 ug/l
RT: 10.762 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

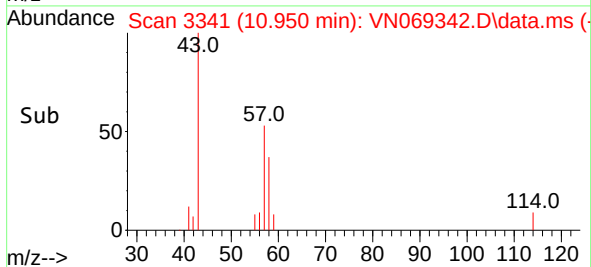
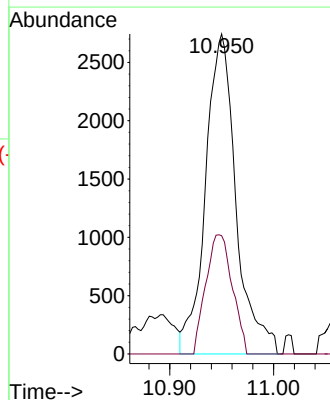
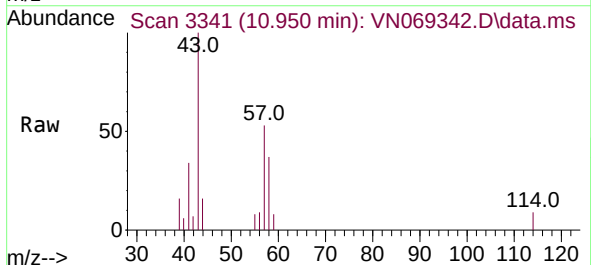
Instrument :
MSVOA_N
ClientSampleId :

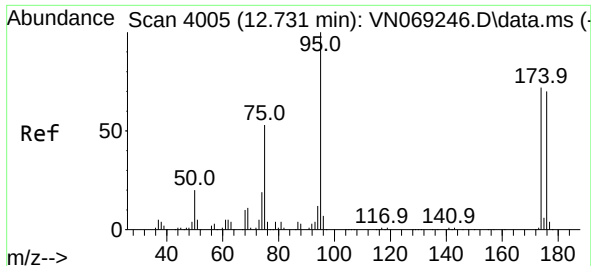
Tgt Ion:	69	Resp:	6542
Ion	Ratio	Lower	Upper
69	100		
41	68.6	53.3	79.9
39	46.4	33.3	49.9



#59
2-Hexanone
Concen: 9.197 ug/l
RT: 10.950 min Scan# 3341
Delta R.T. -0.137 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion:	43	Resp:	5602
Ion	Ratio	Lower	Upper
43	100		
58	32.2	26.9	80.7

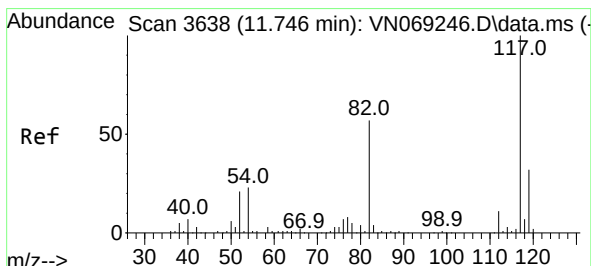
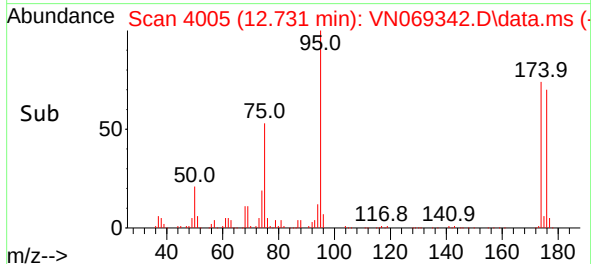
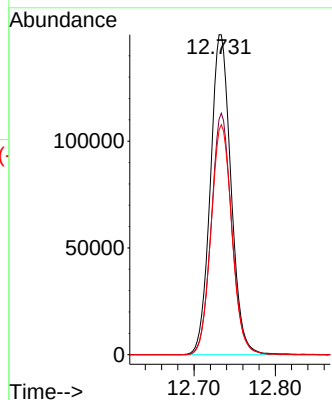
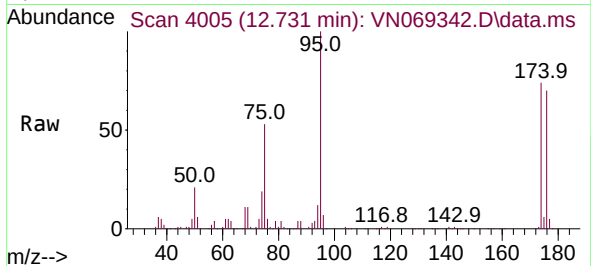




#62
4-Bromofluorobenzene
Concen: 52.851 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

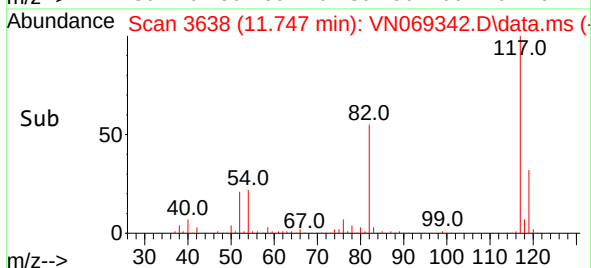
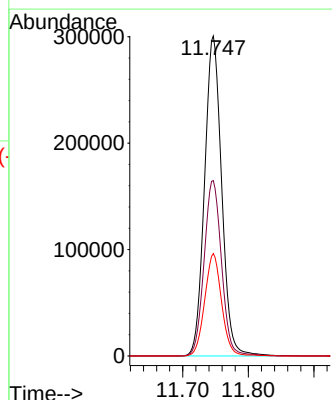
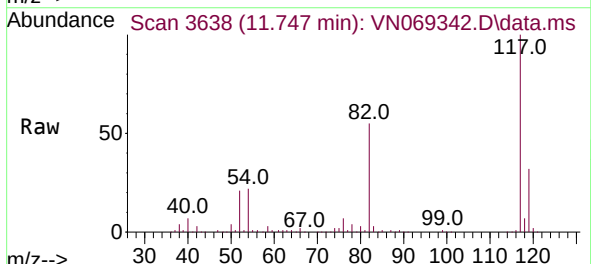
Instrument :
MSVOA_N
ClientSampleId :

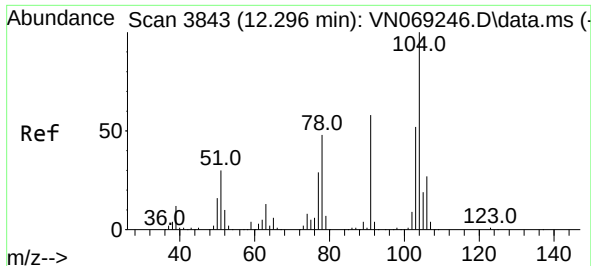
Tgt Ion: 95 Resp: 264037
Ion Ratio Lower Upper
95 100
174 74.7 0.0 144.8
176 72.7 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

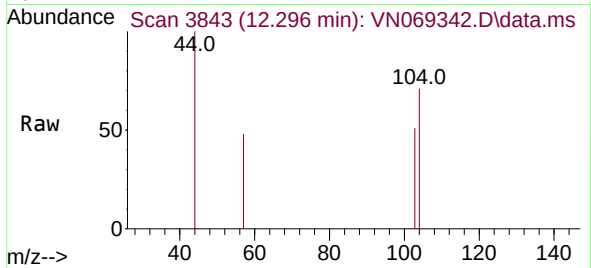
Tgt Ion: 117 Resp: 545408
Ion Ratio Lower Upper
117 100
82 54.8 46.4 69.6
119 32.0 26.0 39.0



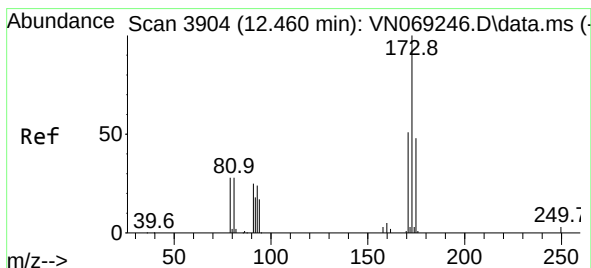
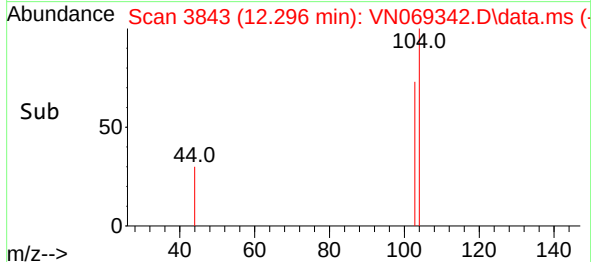
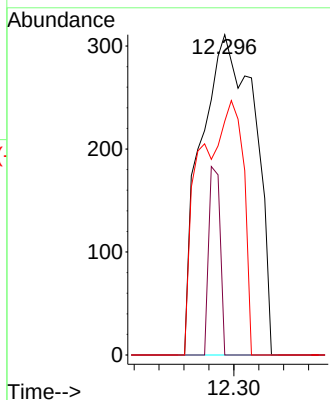


#70
Styrene
Concen: 1.490 ug/l
RT: 12.296 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Instrument :
MSVOA_N
ClientSampleId :

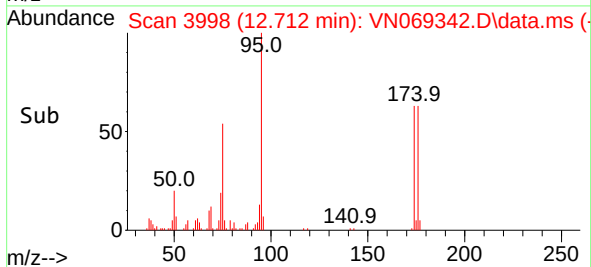
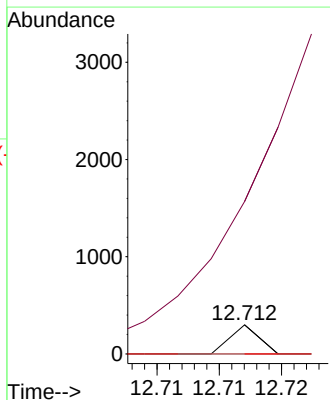
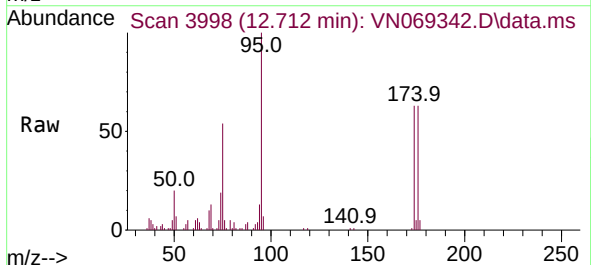


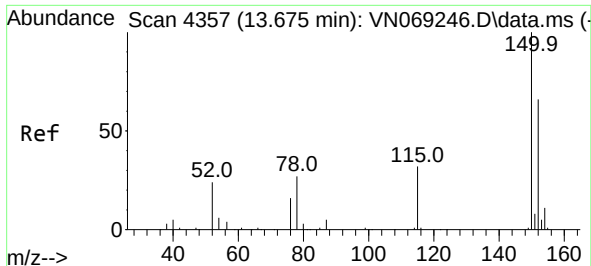
Tgt Ion:104 Resp: 464
Ion Ratio Lower Upper
104 100
78 12.5 42.2 63.4#
103 63.8 44.4 66.6



#71
Bromoform
Concen: 2.887 ug/l
RT: 12.712 min Scan# 3998
Delta R.T. 0.252 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion:173 Resp: 48
Ion Ratio Lower Upper
173 100
175 0.0 23.8 71.5#
254 0.0 0.0 0.0

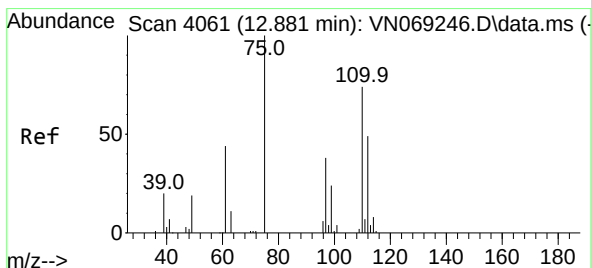
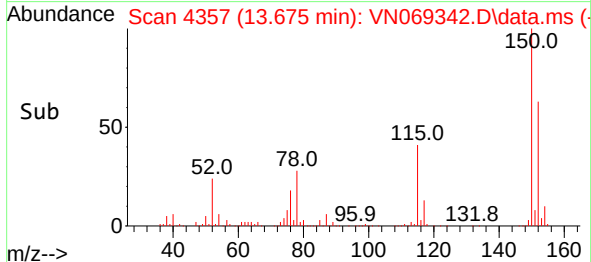
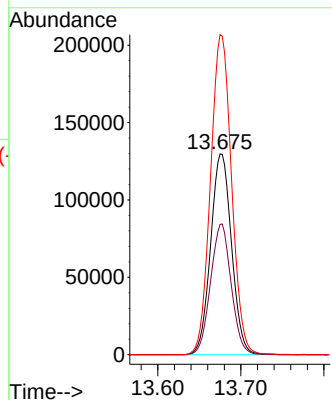
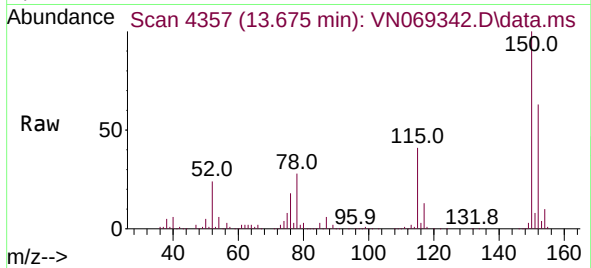




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.675 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VN069342.D
 Acq: 2 Nov 2021 12:33

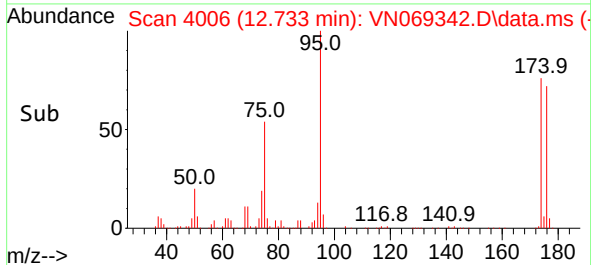
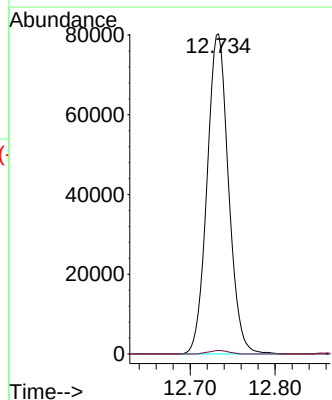
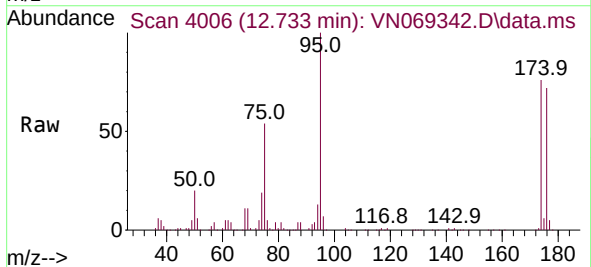
Instrument :
 MSVOA_N
 ClientSampleId :

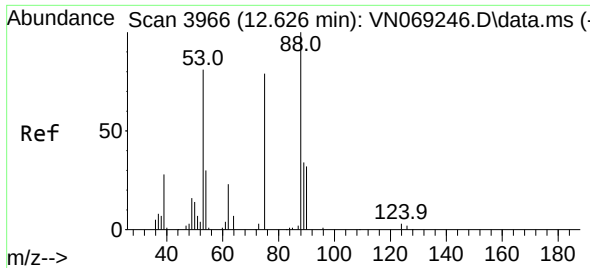
Tgt Ion:152 Resp: 226920
 Ion Ratio Lower Upper
 152 100
 115 64.1 31.4 94.3
 150 160.1 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 23.603 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. -0.148 min
 Lab File: VN069342.D
 Acq: 2 Nov 2021 12:33

Tgt Ion: 75 Resp: 140870
 Ion Ratio Lower Upper
 75 100
 77 1.0 96.2 288.4#

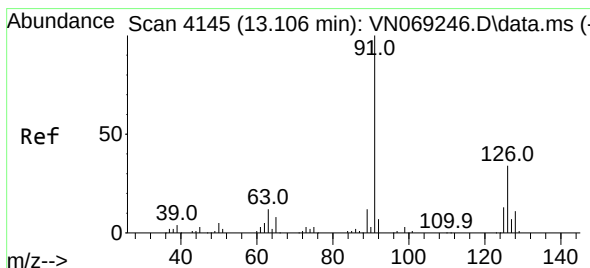
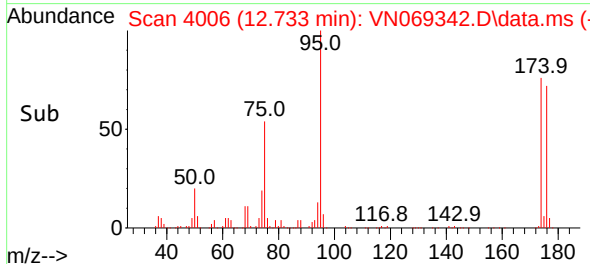
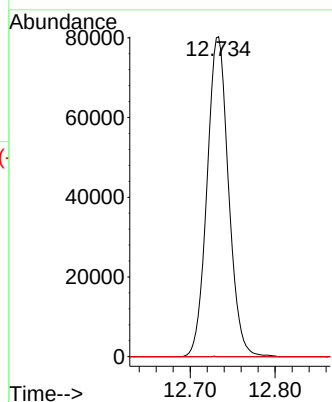
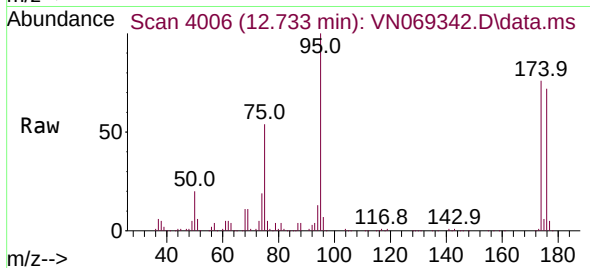




#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.841 ug/l
 RT: 12.733 min Scan# 4006
 Delta R.T. 0.107 min
 Lab File: VN069342.D
 Acq: 2 Nov 2021 12:33

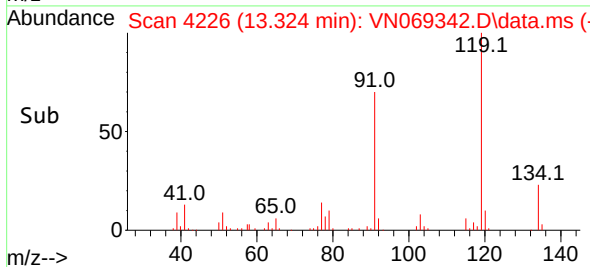
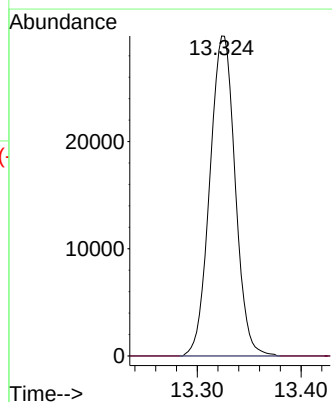
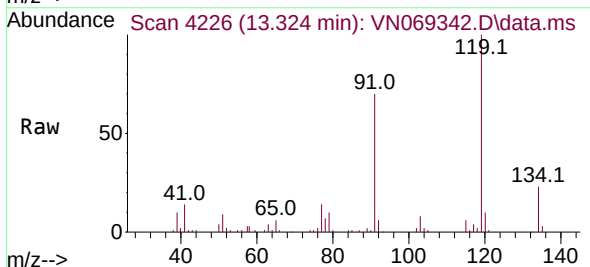
Instrument :
 MSVOA_N
 ClientSampleId :

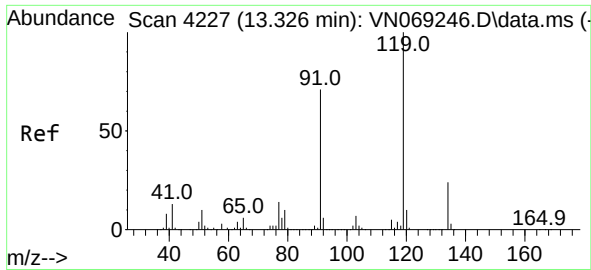
Tgt Ion: 75 Resp: 140870
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.2#
 89 0.0 36.9 55.3#



#82
 4-Chlorotoluene
 Concen: 3.775 ug/l
 RT: 13.324 min Scan# 4226
 Delta R.T. 0.218 min
 Lab File: VN069342.D
 Acq: 2 Nov 2021 12:33

Tgt Ion: 91 Resp: 50625
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.3 48.8#

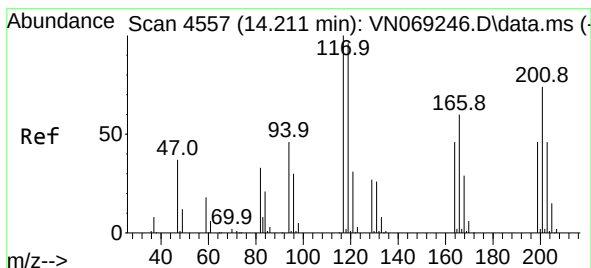
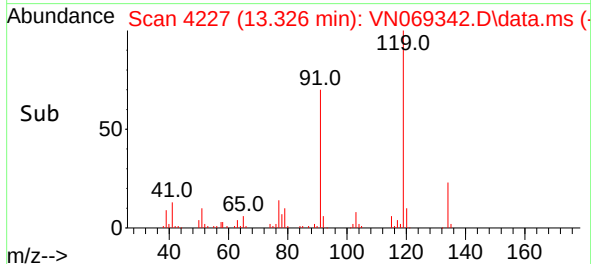
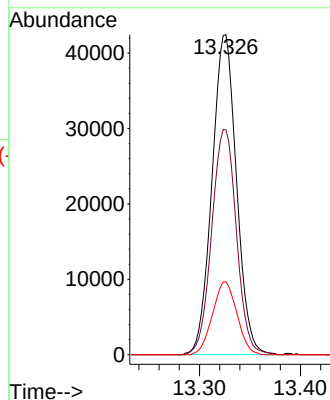
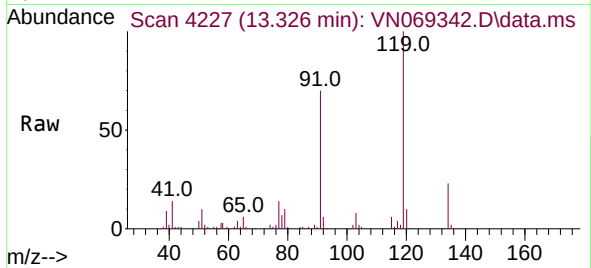




#83
tert-Butylbenzene
Concen: 5.180 ug/l
RT: 13.326 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

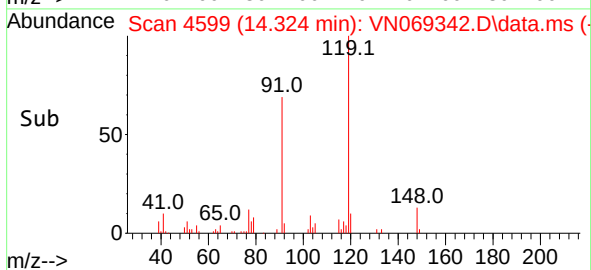
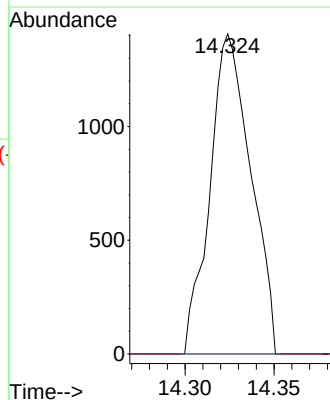
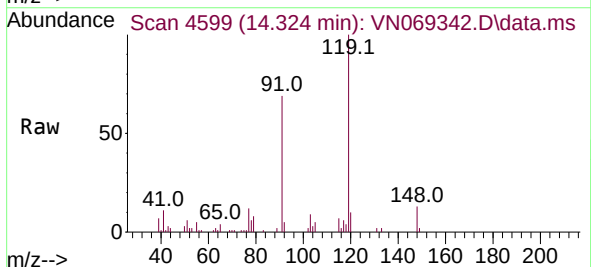
Instrument :
MSVOA_N
ClientSampleId :

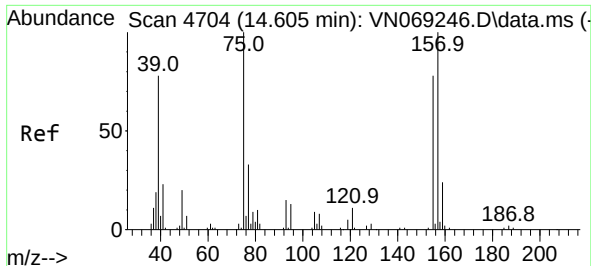
Tgt Ion:119 Resp: 71569
Ion Ratio Lower Upper
119 100
91 70.7 34.6 103.9
134 22.7 12.6 37.6



#90
Hexachloroethane
Concen: 2.746 ug/l
RT: 14.324 min Scan# 4599
Delta R.T. 0.113 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion:117 Resp: 2251
Ion Ratio Lower Upper
117 100
201 0.0 37.1 111.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.774 ug/l

RT: 14.321 min Scan# 41

Delta R.T. -0.284 min

Lab File: VN069342.D

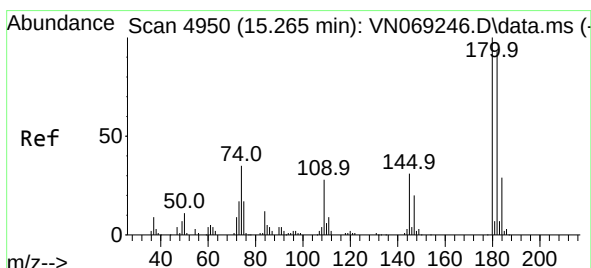
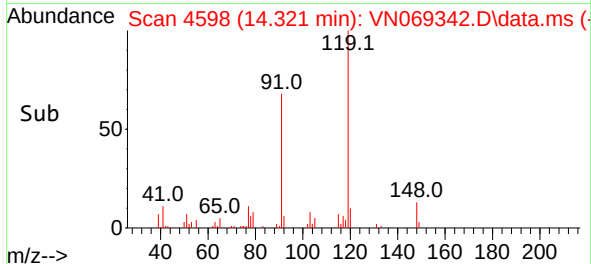
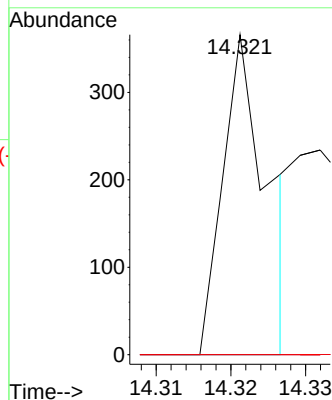
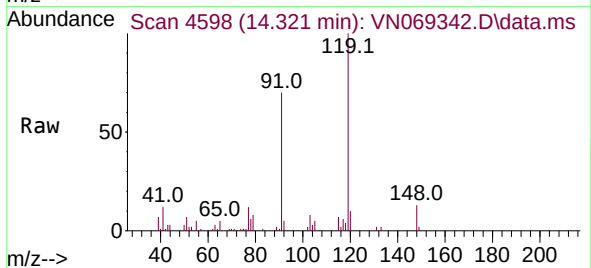
Acq: 2 Nov 2021 12:33

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 75	Resp:	151
Ion Ratio	Lower	Upper
75	100	
155	0.0	38.8 116.4#
157	0.0	50.2 150.6#



#93

1,2,4-Trichlorobenzene

Concen: 2.730 ug/l

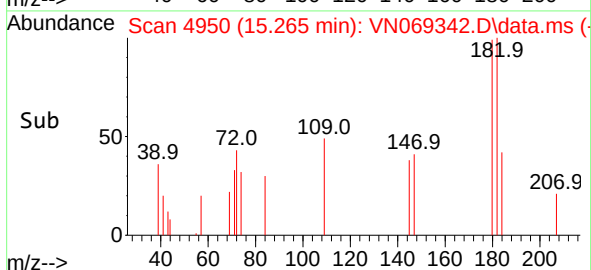
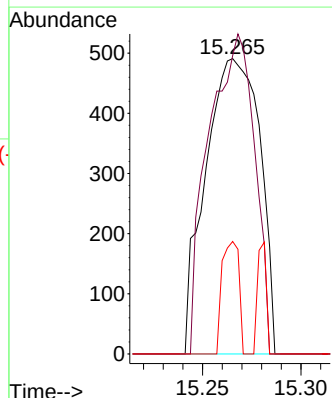
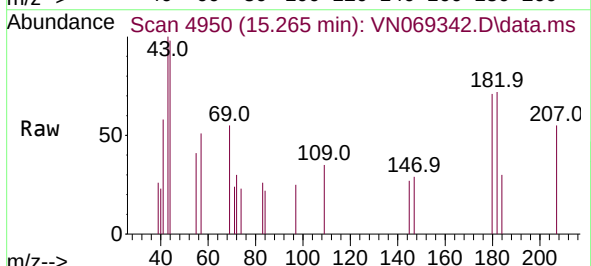
RT: 15.265 min Scan# 4950

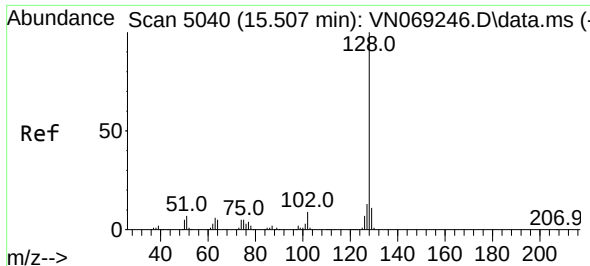
Delta R.T. 0.000 min

Lab File: VN069342.D

Acq: 2 Nov 2021 12:33

Tgt Ion: 180	Resp:	941
Ion Ratio	Lower	Upper
180	100	
182	91.9	47.9 143.7
145	11.8	16.4 49.2#

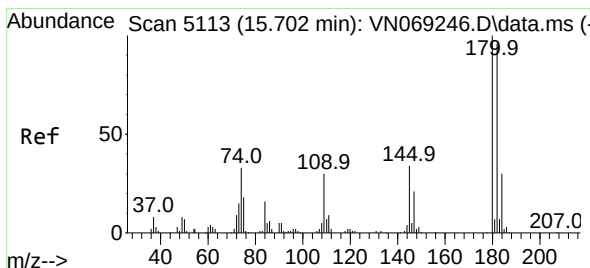
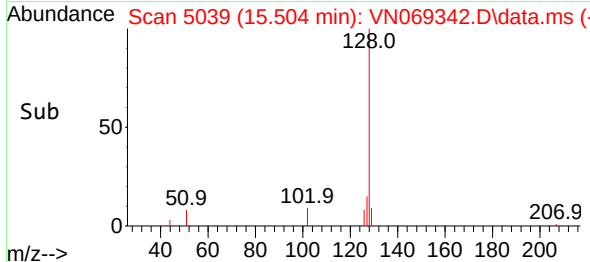
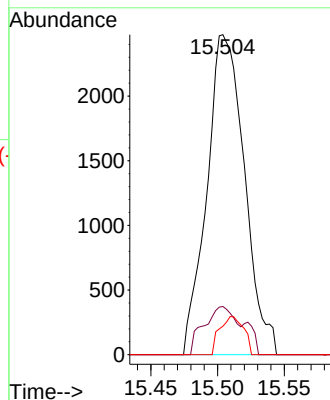
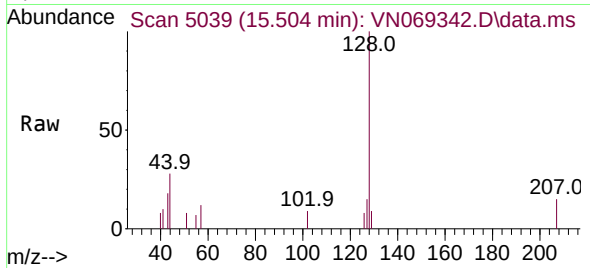




#95
Naphthalene
Concen: 3.707 ug/l
RT: 15.504 min Scan# 5040
Delta R.T. -0.003 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 4854
Ion Ratio Lower Upper
128 100
127 12.8 10.5 15.7
129 7.6 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 2.480 ug/l
RT: 15.702 min Scan# 5113
Delta R.T. 0.000 min
Lab File: VN069342.D
Acq: 2 Nov 2021 12:33

Tgt Ion:180 Resp: 1028
Ion Ratio Lower Upper
180 100
182 93.6 48.1 144.3
145 19.9 17.4 52.2

