

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN033022\
 Data File : VN071693.D
 Acq On : 31 Mar 2022 05:45
 Operator : JC\MD
 Sample : PB143736ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB143736ZHE#08

Quant Time: Mar 31 07:48:17 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

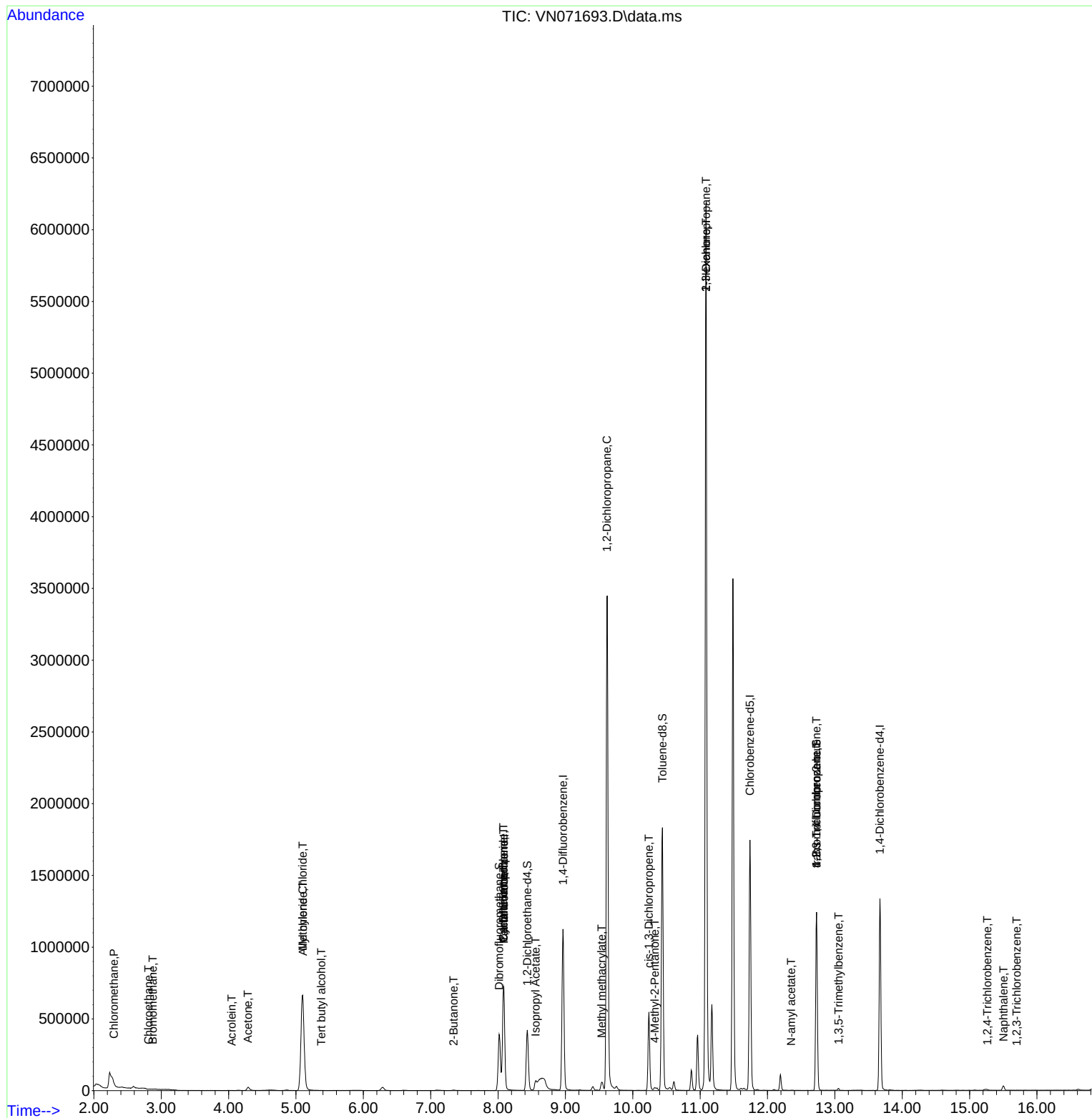
Internal Standards						
1) Pentafluorobenzene	8.087	168	604717	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1032109	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1060796	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	388103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	348463	50.476	ug/l	0.00
Spiked Amount	50.000	Range 61 - 141	Recovery	= 100.960%		
35) Dibromofluoromethane	8.016	113	292076	48.091	ug/l	0.00
Spiked Amount	50.000	Range 69 - 133	Recovery	= 96.180%		
50) Toluene-d8	10.439	98	1320489	53.150	ug/l	0.00
Spiked Amount	50.000	Range 65 - 126	Recovery	= 106.300%		
62) 4-Bromofluorobenzene	12.727	95	447819	55.732	ug/l	0.00
Spiked Amount	50.000	Range 58 - 135	Recovery	= 111.460%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	2441	0.401	ug/l #	79
5) Bromomethane	2.875	94	1038	0.239	ug/l #	61
6) Chloroethane	2.810	64	1003	0.208	ug/l #	58
11) Tert butyl alcohol	5.375	59	469	0.419	ug/l #	72
13) Acrolein	4.046	56	384	0.281	ug/l #	46
14) Allyl chloride	5.104	41	16439	2.029	ug/l #	25
16) Acetone	4.287	43	41234	13.976	ug/l	93
18) Methyl Acetate	4.857	43	8677	Below Cal		91
20) Methylene Chloride	5.099	84	587363	94.453	ug/l	99
25) 2-Butanone	7.340	43	6531	1.536	ug/l	90
31) Cyclohexane	8.081	56	10403	1.108	ug/l #	1
36) 1,1-Dichloropropene	8.081	75	41986	4.950	ug/l #	48
38) Carbon Tetrachloride	8.081	117	54186	6.519	ug/l #	16
43) Isopropyl Acetate	8.557	43	80187	5.193	ug/l #	84
45) 1,2-Dichloropropane	9.616	63	4679	0.699	ug/l #	44
48) Methyl methacrylate	9.539	41	16210	2.530	ug/l #	10
49) 1,4-Dioxane	9.616	88	681	Below Cal	#	1
51) 4-Methyl-2-Pentanone	10.328	43	10592	1.193	ug/l	88
54) cis-1,3-Dichloropropene	10.239	75	107648	10.392	ug/l #	61
57) 1,3-Dichloropropane	11.086	76	68350	5.865	ug/l #	43
59) 2-Hexanone	11.086	43	877111	140.334	ug/l #	47
74) N-amyl acetate	12.351	43	2273	0.243	ug/l #	40
76) 1,2,3-Trichloropropane	12.727	75	218557	24.309	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.057	105	5843	0.225	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.727	75	218557	75.333	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.263	180	169	2.112	ug/l #	12
95) Naphthalene	15.504	128	33462	5.552	ug/l	98
96) 1,2,3-Trichlorobenzene	15.698	180	58	2.423	ug/l #	83

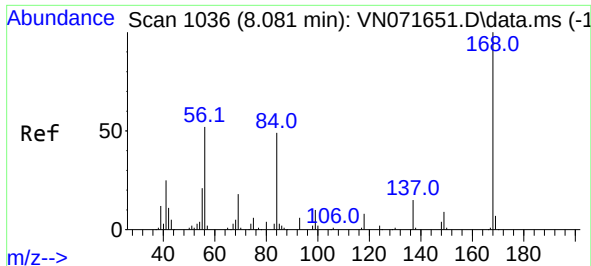
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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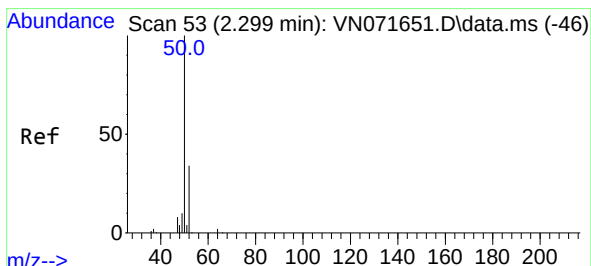
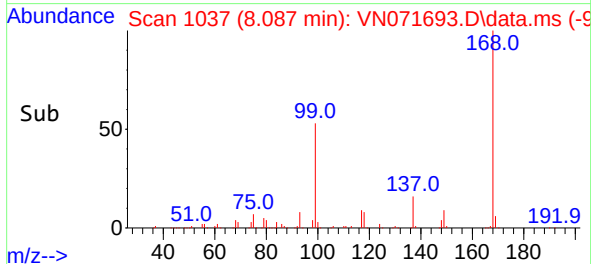
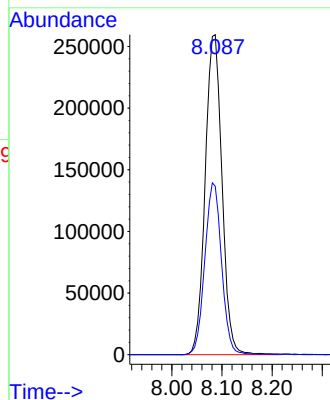
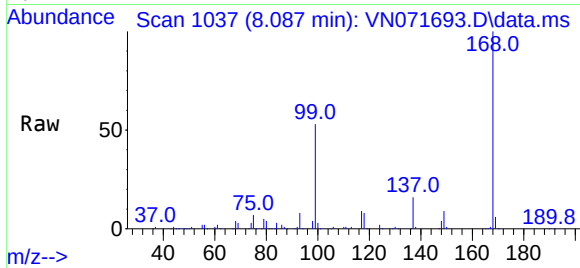




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.087 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

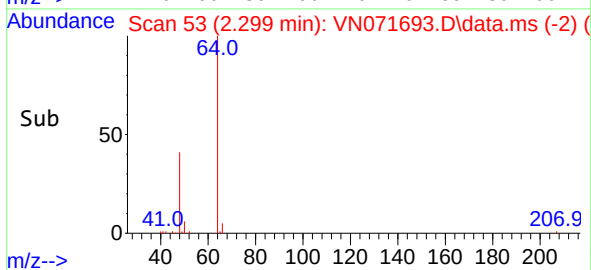
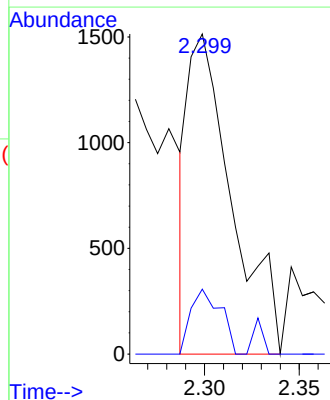
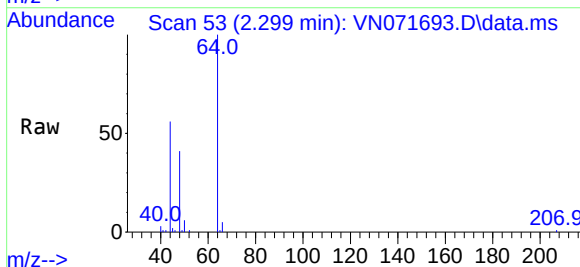
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

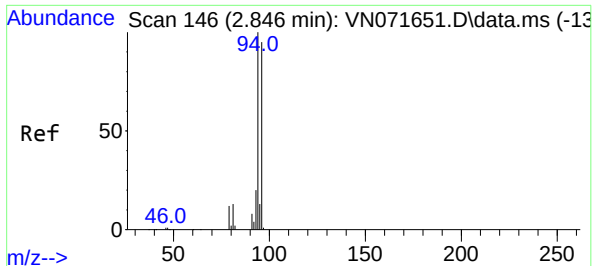
Tgt Ion:168 Resp: 604717
Ion Ratio Lower Upper
168 100
99 52.6 42.3 63.5



#3
Chloromethane
Concen: 0.401 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 50 Resp: 2441
Ion Ratio Lower Upper
50 100
52 20.3 25.7 38.5#

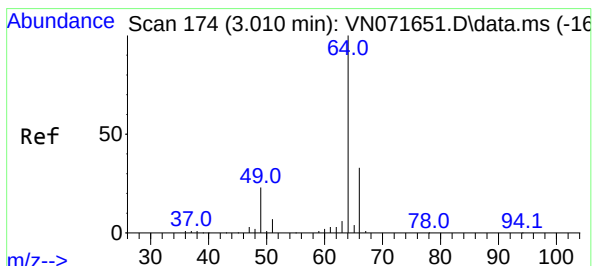
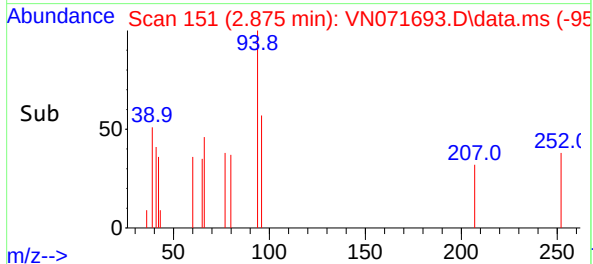
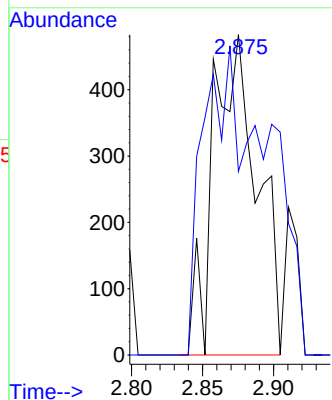
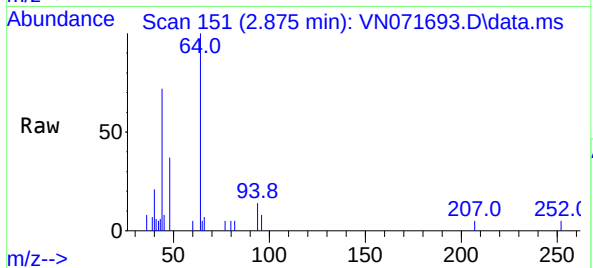




#5
Bromomethane
Concen: 0.239 ug/l
RT: 2.875 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

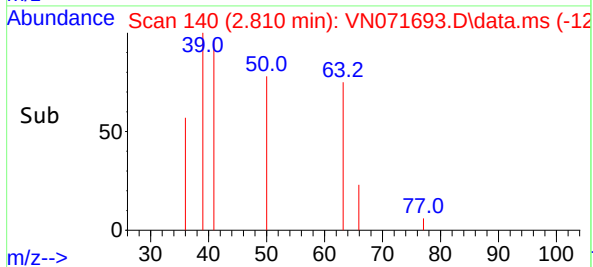
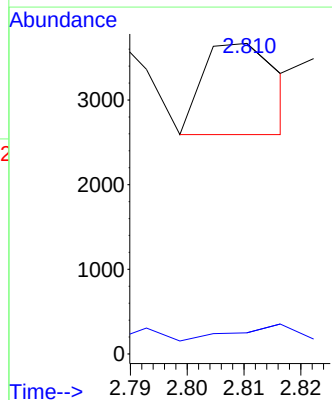
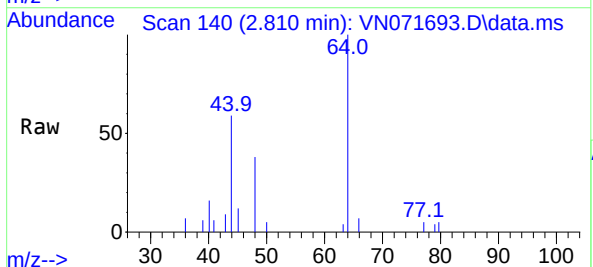
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

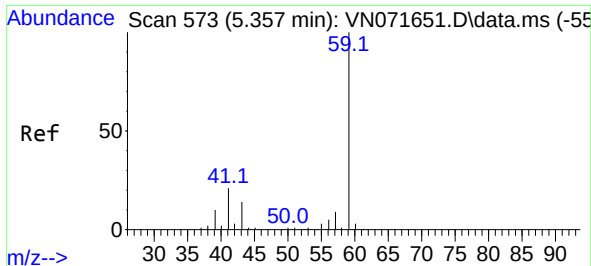
Tgt Ion: 94 Resp: 1038
Ion Ratio Lower Upper
94 100
96 57.3 76.0 114.0#



#6
Chloroethane
Concen: 0.208 ug/l
RT: 2.810 min Scan# 140
Delta R.T. -0.200 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 64 Resp: 1003
Ion Ratio Lower Upper
64 100
66 8.9 26.2 39.4#





#11

Tert butyl alcohol

Concen: 0.419 ug/l

RT: 5.375 min Scan# 5

Delta R.T. 0.018 min

Lab File: VN071693.D

Acq: 31 Mar 2022 05:45

Instrument :

MSVOA_N

ClientSampleId :

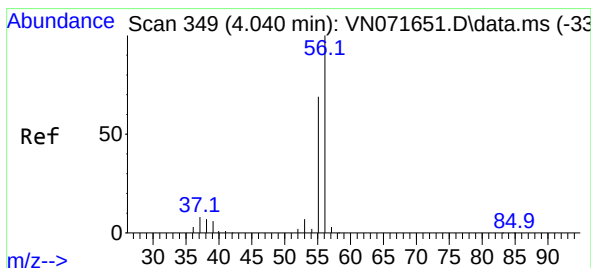
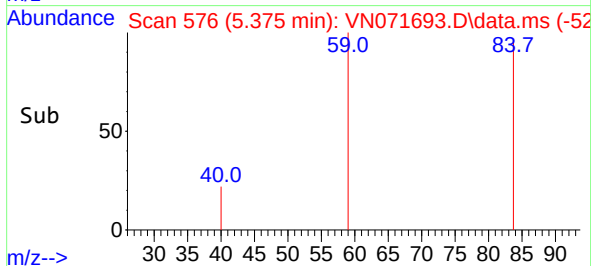
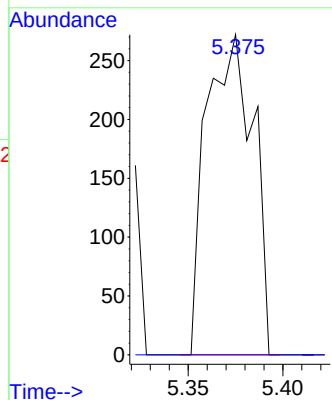
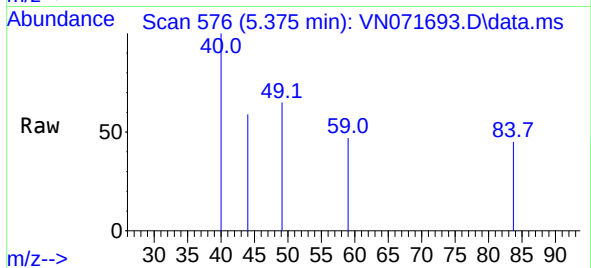
PB143736ZHE#08

Tgt Ion: 59 Resp: 469

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.281 ug/l

RT: 4.046 min Scan# 350

Delta R.T. 0.006 min

Lab File: VN071693.D

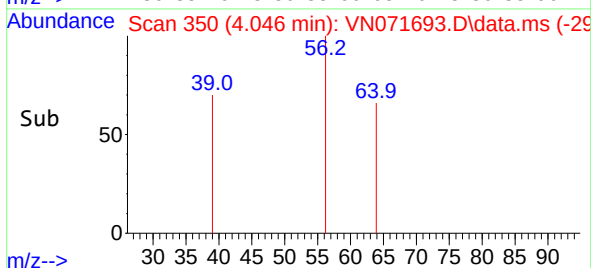
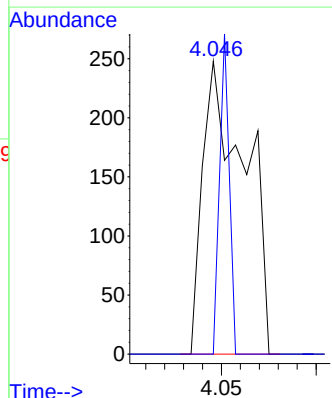
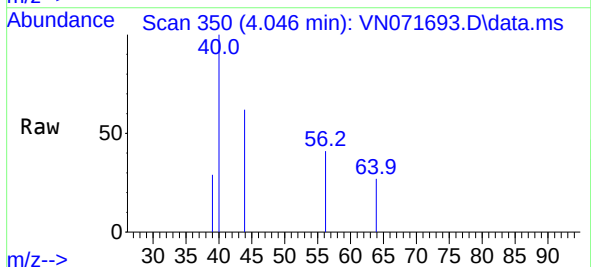
Acq: 31 Mar 2022 05:45

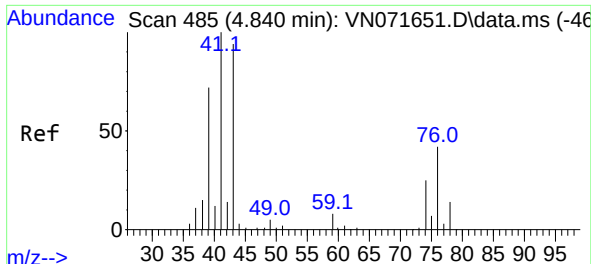
Tgt Ion: 56 Resp: 384

Ion Ratio Lower Upper

56 100

55 25.0 54.8 82.2#

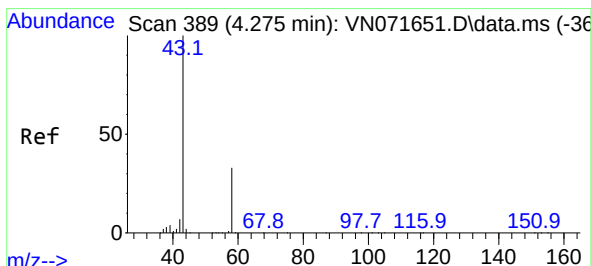
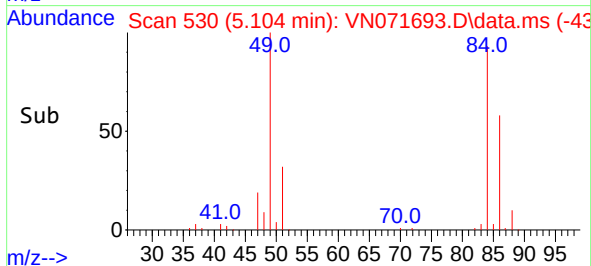
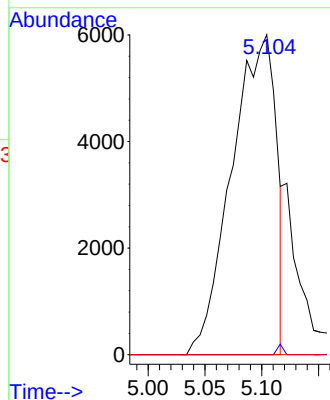
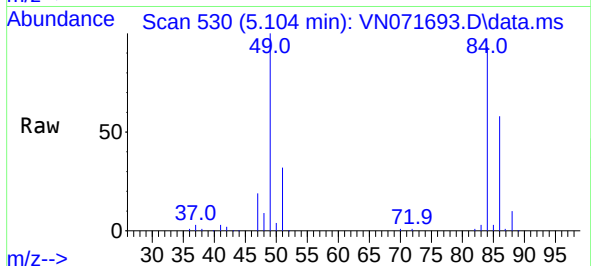




#14
Allyl chloride
Concen: 2.029 ug/l
RT: 5.104 min Scan# 51
Delta R.T. 0.264 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

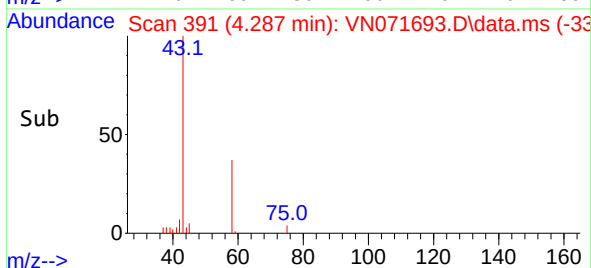
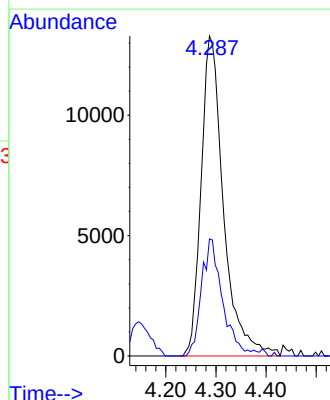
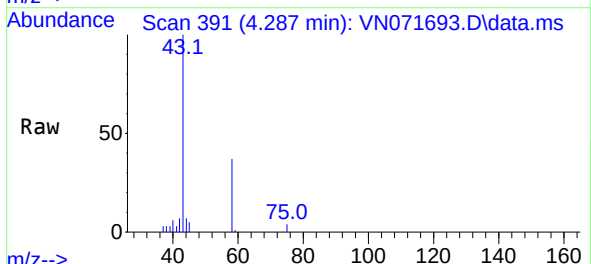
Instrument :
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PB143736ZHE#08

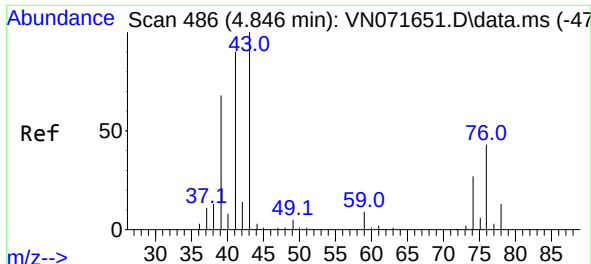
Tgt Ion: 41 Resp: 16439
Ion Ratio Lower Upper
41 100
39 0.4 53.2 79.8#
76 0.0 29.9 44.9#



#16
Acetone
Concen: 13.976 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.012 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 43 Resp: 41234
Ion Ratio Lower Upper
43 100
58 36.5 26.0 39.0

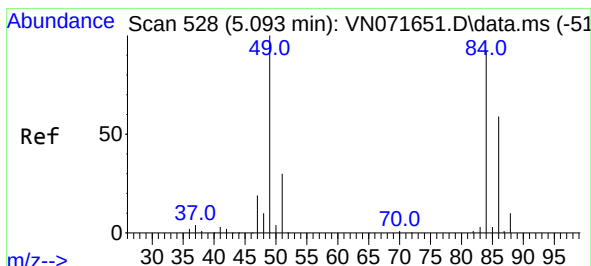
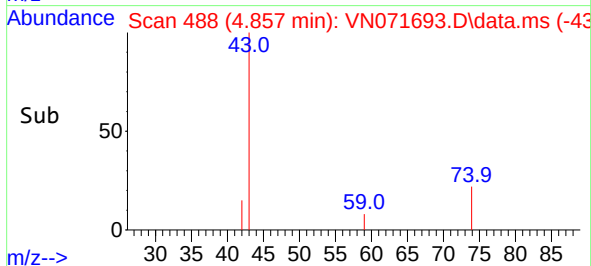
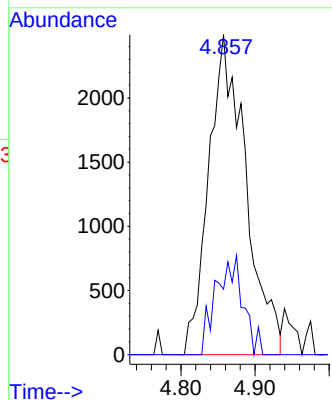
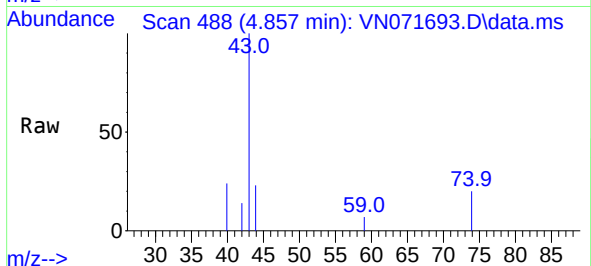




#18
Methyl Acetate
Concen: Below Cal
RT: 4.857 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

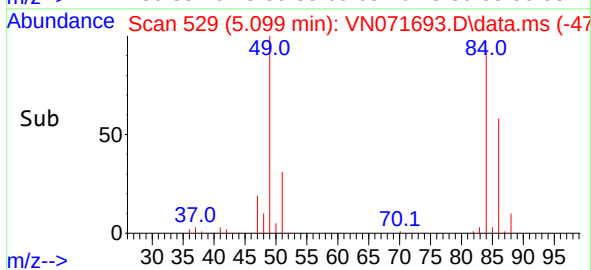
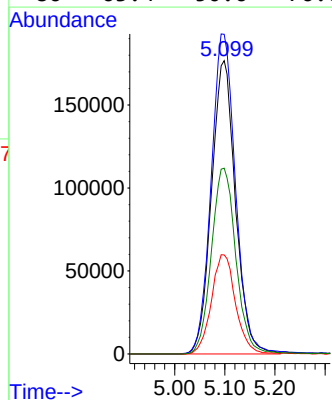
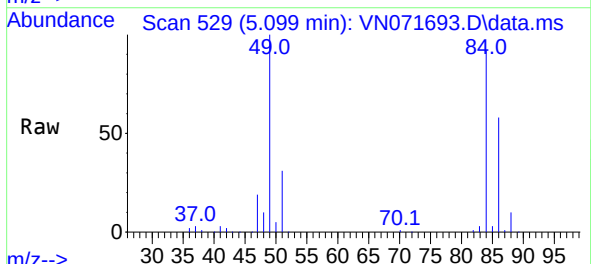
Instrument :
MSVOA_N
ClientSampleId :
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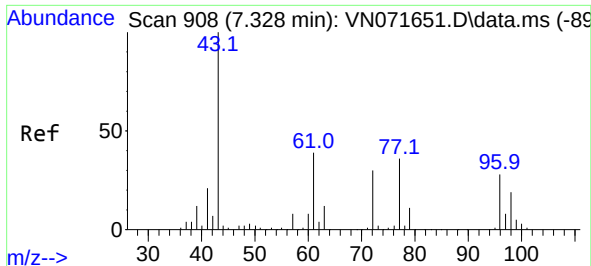
Tgt Ion: 43 Resp: 8677
Ion Ratio Lower Upper
43 100
74 22.5 21.6 32.4



#20
Methylene Chloride
Concen: 94.453 ug/l
RT: 5.099 min Scan# 529
Delta R.T. 0.006 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 84 Resp: 587363
Ion Ratio Lower Upper
84 100
49 109.0 88.3 132.5
51 33.8 28.2 42.2
86 63.4 50.6 76.0

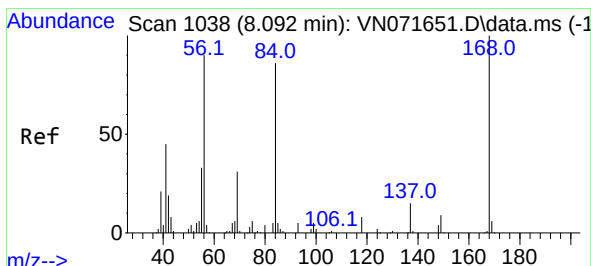
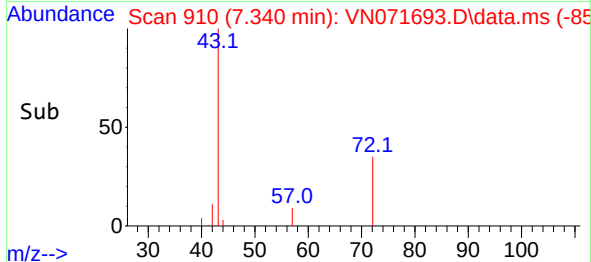
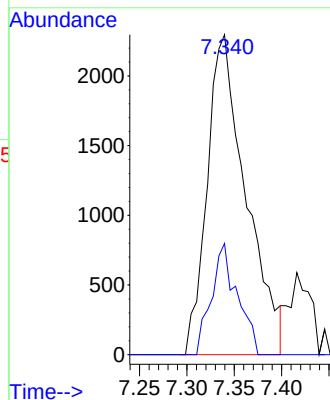
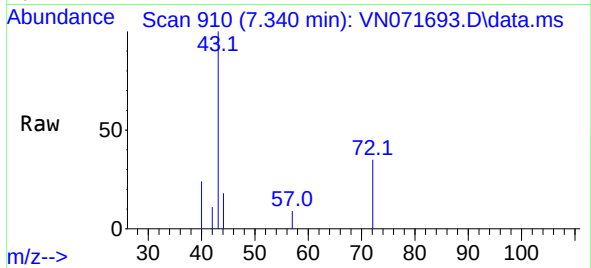




#25
2-Butanone
Concen: 1.536 ug/l
RT: 7.340 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

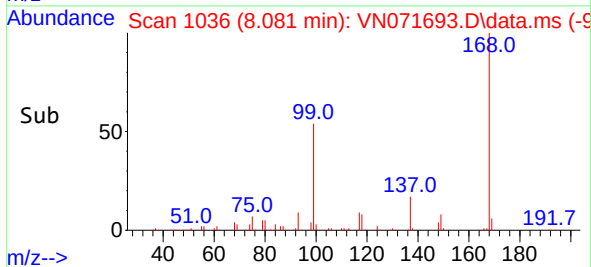
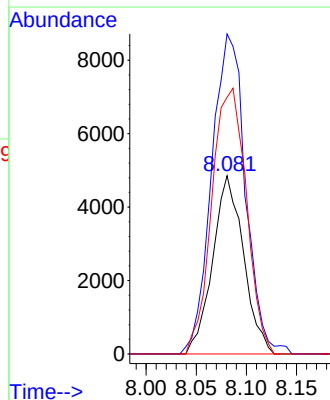
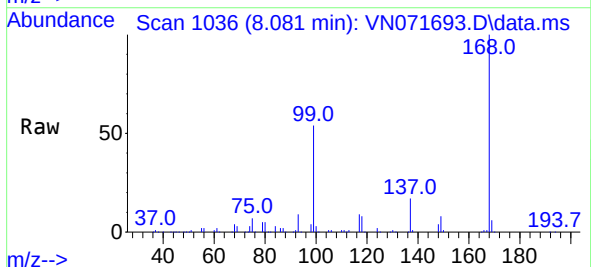
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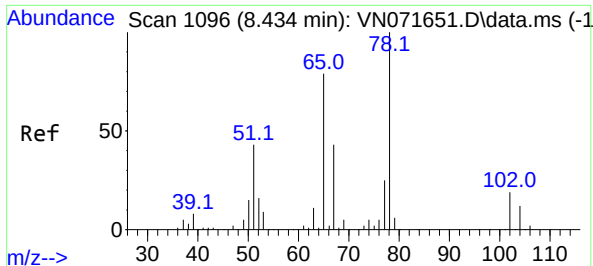
Tgt Ion: 43 Resp: 6531
Ion Ratio Lower Upper
43 100
72 34.8 23.7 35.5



#31
Cyclohexane
Concen: 1.108 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.011 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 56 Resp: 10403
Ion Ratio Lower Upper
56 100
69 179.5 27.8 41.8#
84 144.0 76.9 115.3#

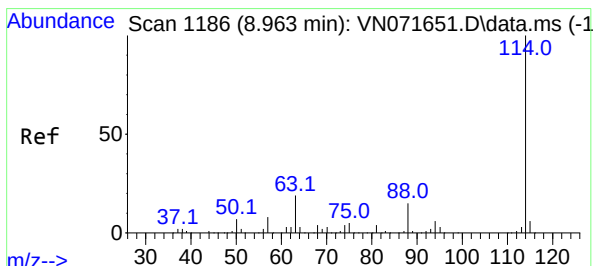
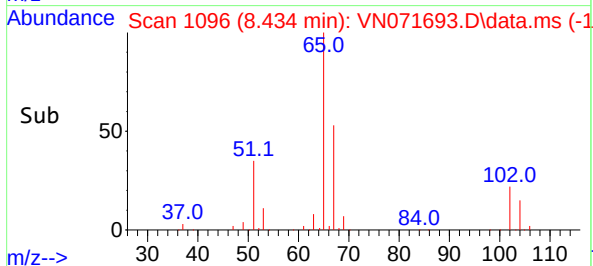
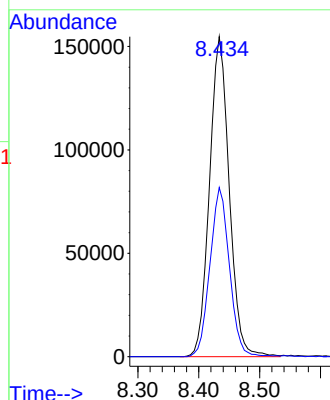
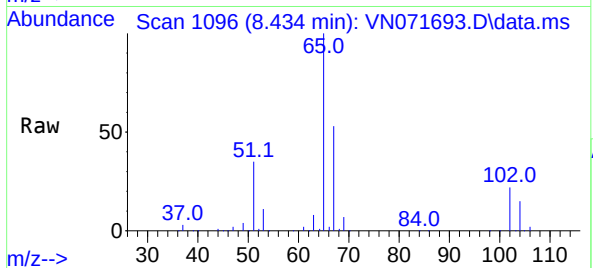




#33
1,2-Dichloroethane-d4
Concen: 50.476 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

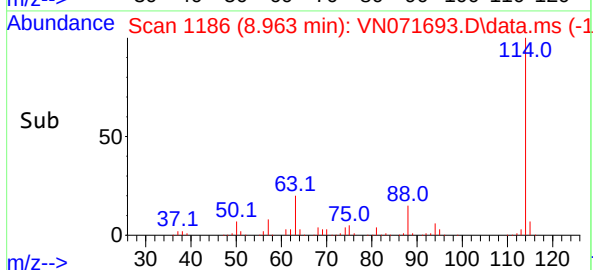
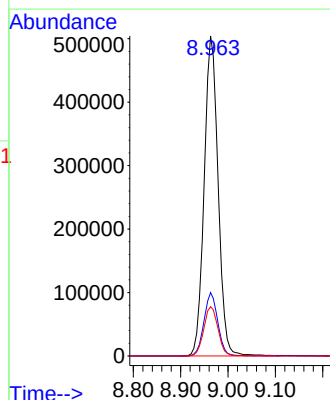
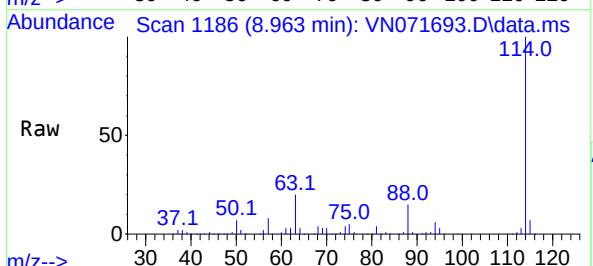
Instrument :
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ClientSampleId :
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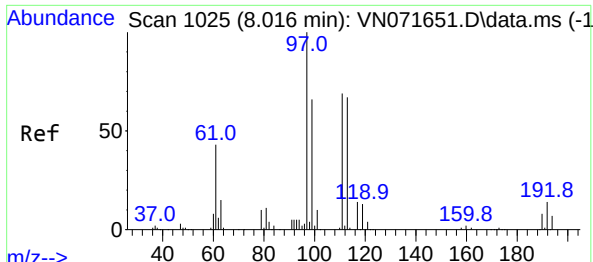
Tgt Ion: 65 Resp: 348463
Ion Ratio Lower Upper
65 100
67 52.2 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. 0.000 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 114 Resp: 1032109
Ion Ratio Lower Upper
114 100
63 19.8 0.0 40.0
88 15.4 0.0 32.6

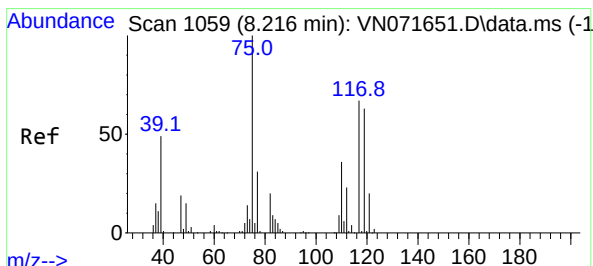
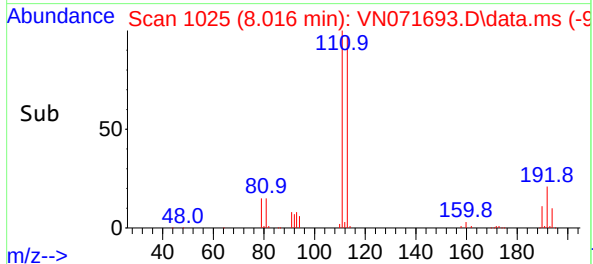
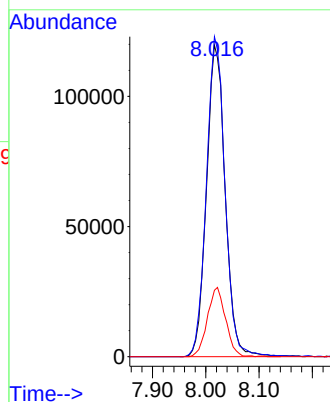
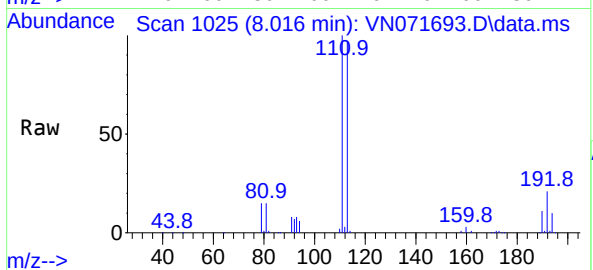




#35
Dibromofluoromethane
Concen: 48.091 ug/l
RT: 8.016 min Scan# 1025
Delta R.T. 0.000 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

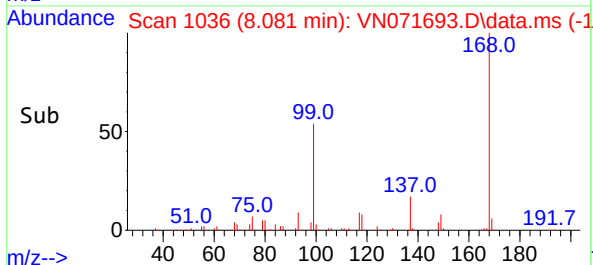
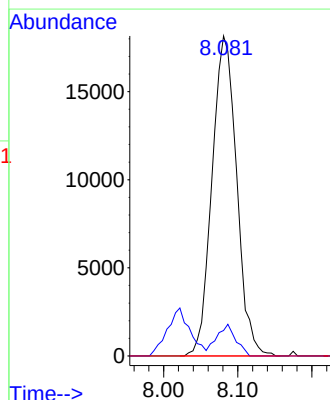
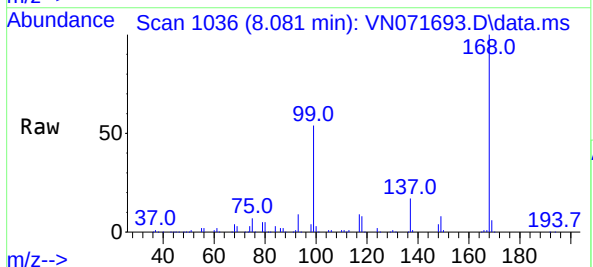
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

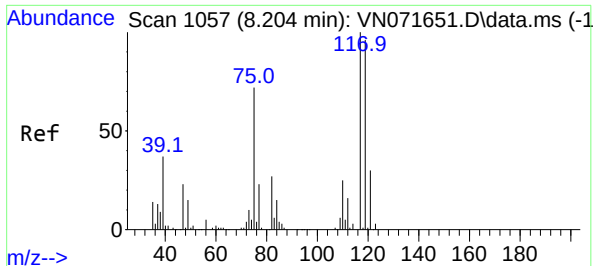
Tgt Ion:113 Resp: 292076
Ion Ratio Lower Upper
113 100
111 102.6 81.4 122.0
192 21.6 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.950 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 75 Resp: 41986
Ion Ratio Lower Upper
75 100
110 7.7 18.3 54.8#
77 0.0 25.1 37.7#

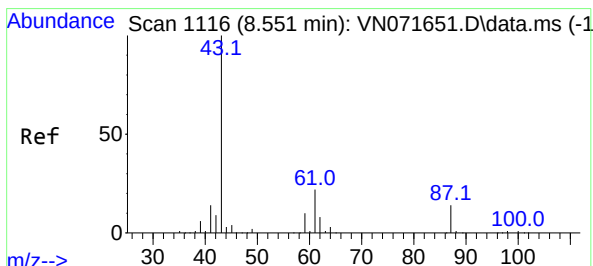
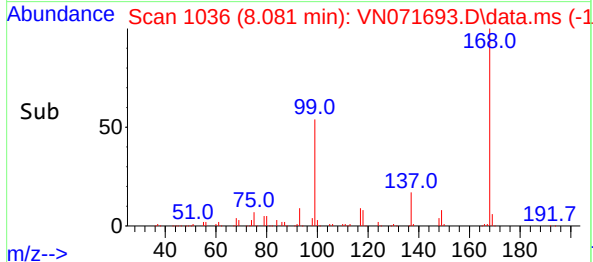
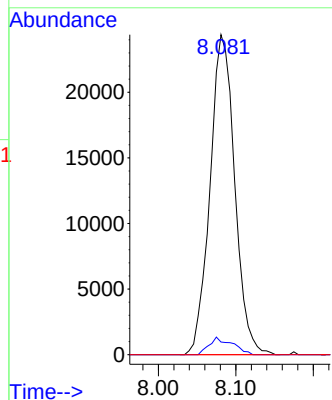
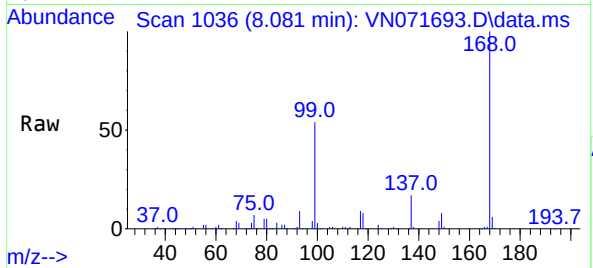




#38
Carbon Tetrachloride
Concen: 6.519 ug/l
RT: 8.081 min Scan# 1117
Delta R.T. -0.123 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

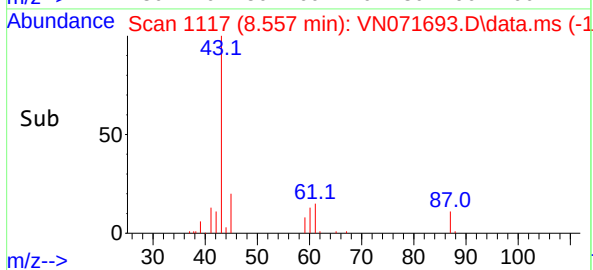
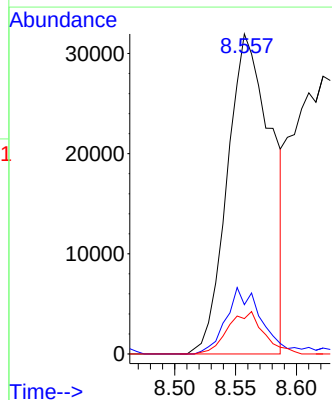
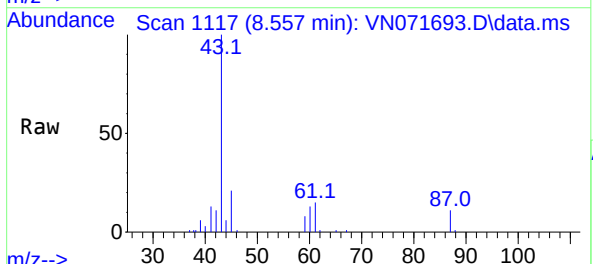
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

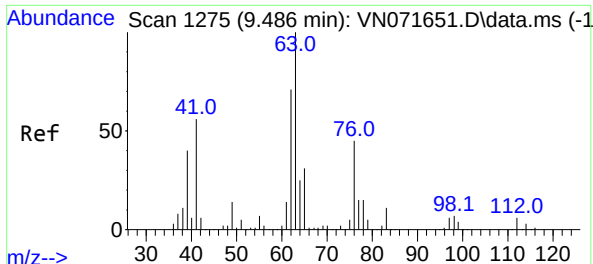
Tgt Ion:117 Resp: 54186
Ion Ratio Lower Upper
117 100
119 4.0 75.8 113.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 5.193 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. 0.006 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 43 Resp: 80187
Ion Ratio Lower Upper
43 100
61 17.2 21.9 32.9#
87 10.9 12.0 18.0#

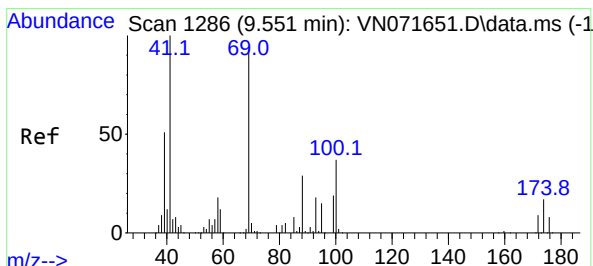
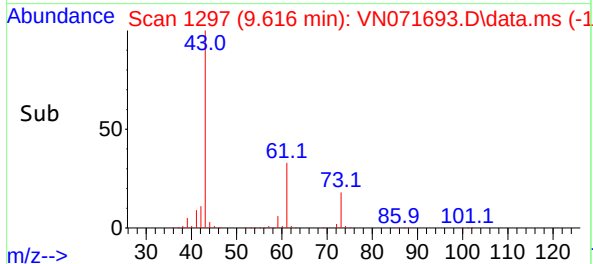
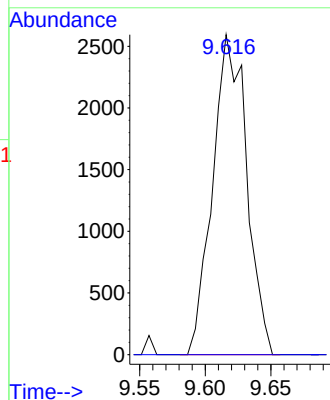
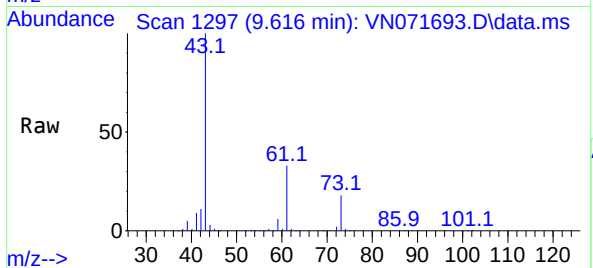




#45
1,2-Dichloropropane
Concen: 0.699 ug/l
RT: 9.616 min Scan# 11
Delta R.T. 0.130 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

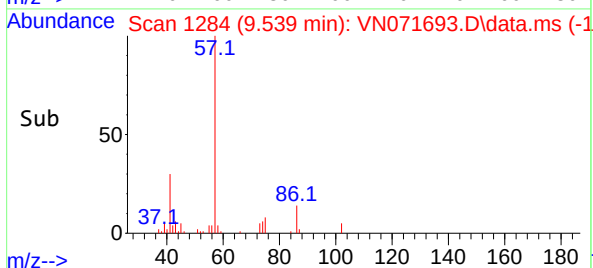
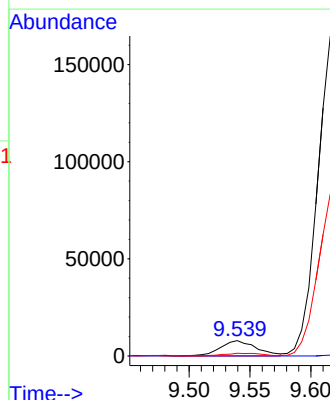
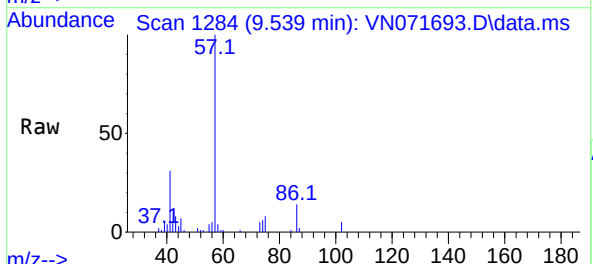
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

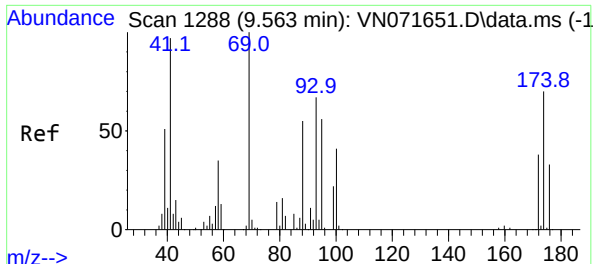
Tgt Ion: 63 Resp: 4679
Ion Ratio Lower Upper
63 100
65 0.0 24.9 37.3#



#48
Methyl methacrylate
Concen: 2.530 ug/l
RT: 9.539 min Scan# 1284
Delta R.T. -0.012 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 41 Resp: 16210
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 0.0 45.6 68.4#

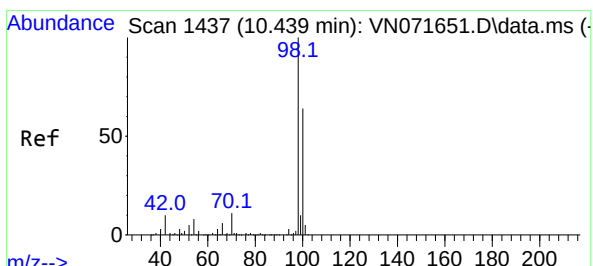
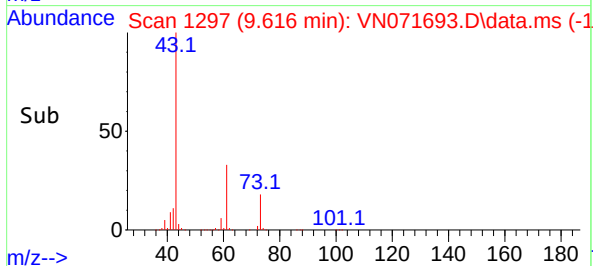
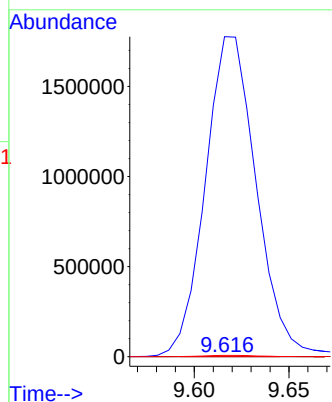
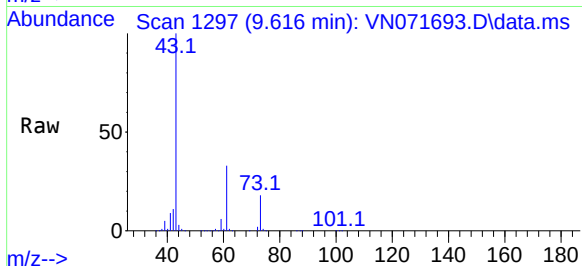




#49
1,4-Dioxane
Concen: Below Cal
RT: 9.616 min Scan# 1288
Delta R.T. 0.053 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

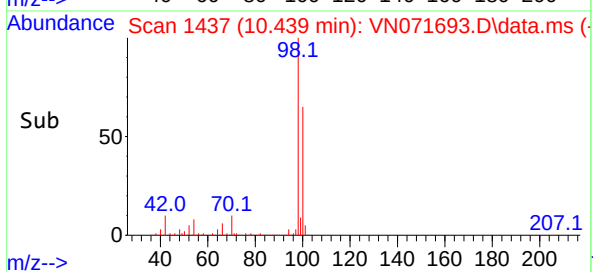
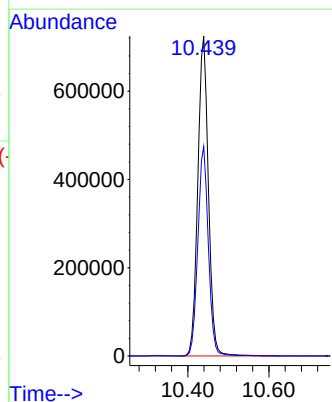
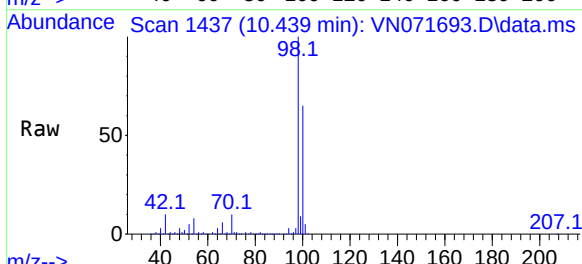
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

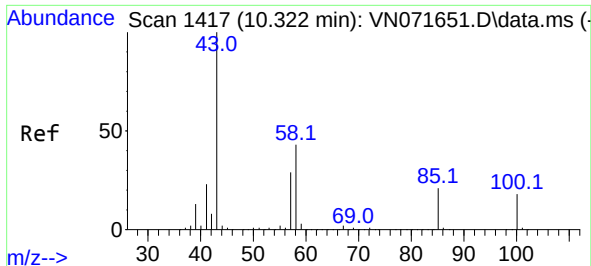
Tgt Ion: 88 Resp: 681
Ion Ratio Lower Upper
88 100
43 496165.5 20.2 30.4#
58 2277.7 54.2 81.4#



#50
Toluene-d8
Concen: 53.150 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 98 Resp: 1320489
Ion Ratio Lower Upper
98 100
100 64.9 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 1.193 ug/l

RT: 10.328 min Scan# 1417

Delta R.T. 0.006 min

Lab File: VN071693.D

Acq: 31 Mar 2022 05:45

Instrument :

MSVOA_N

ClientSampleId :

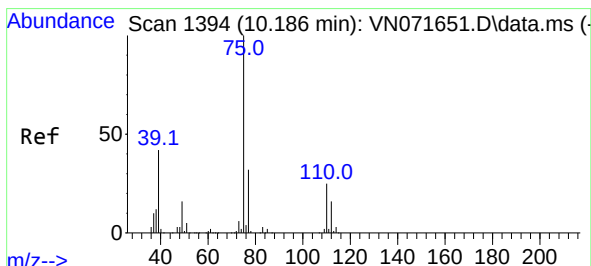
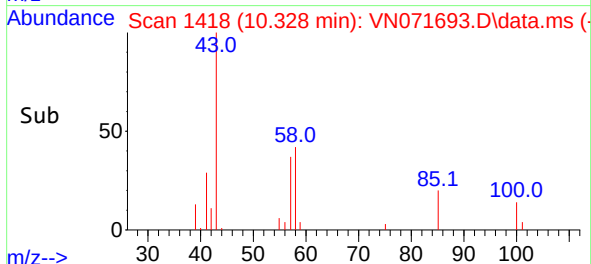
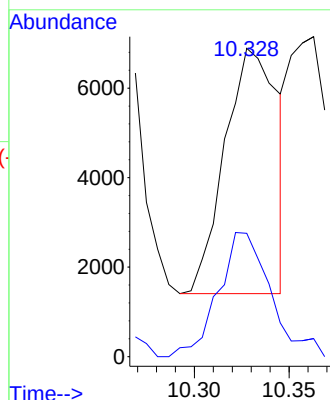
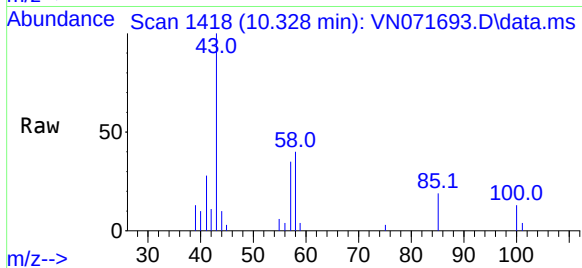
PB143736ZHE#08

Tgt Ion: 43 Resp: 10592

Ion Ratio Lower Upper

43 100

58 50.0 34.1 51.1



#54

cis-1,3-Dichloropropene

Concen: 10.392 ug/l

RT: 10.239 min Scan# 1403

Delta R.T. 0.053 min

Lab File: VN071693.D

Acq: 31 Mar 2022 05:45

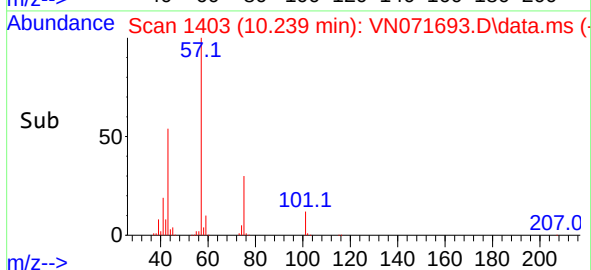
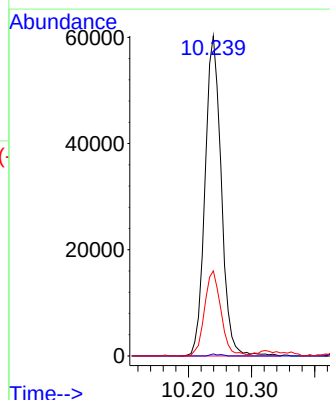
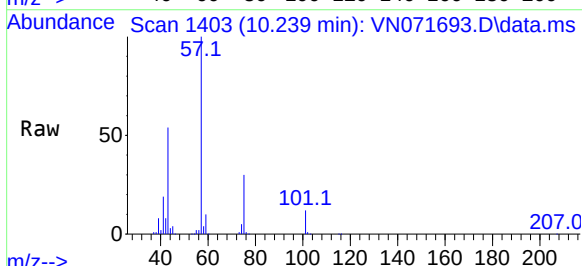
Tgt Ion: 75 Resp: 107648

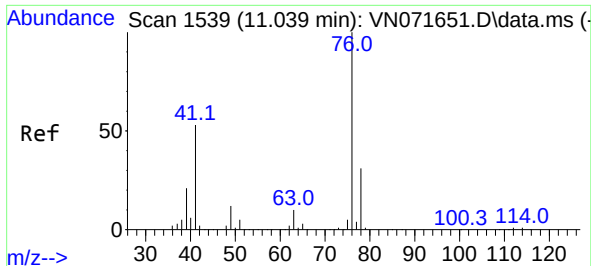
Ion Ratio Lower Upper

75 100

77 0.7 25.2 37.8#

39 26.6 35.7 53.5#

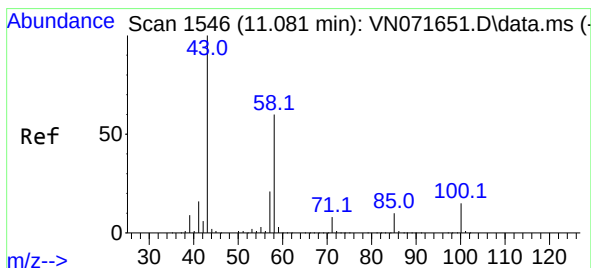
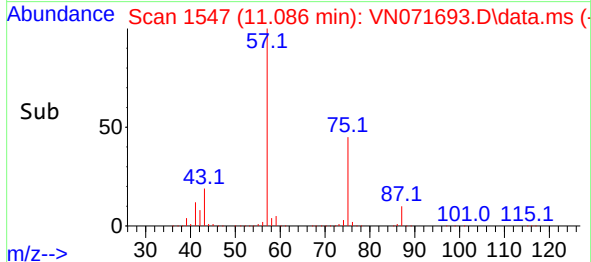
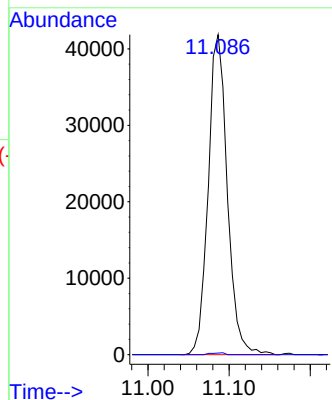
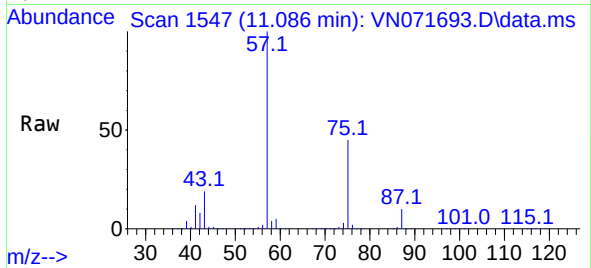




#57
1,3-Dichloropropane
Concen: 5.865 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.047 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

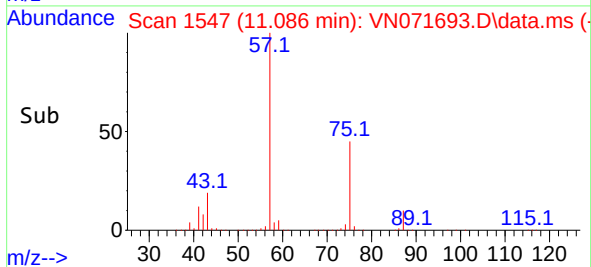
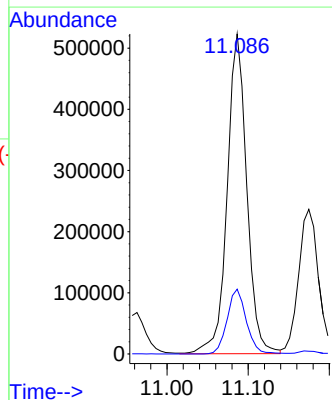
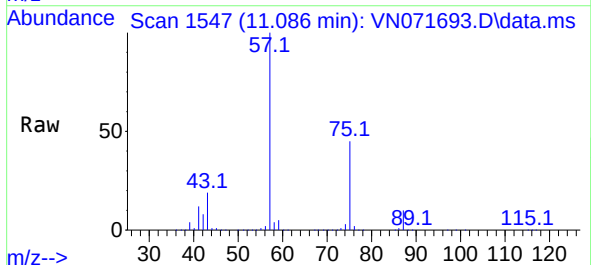
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

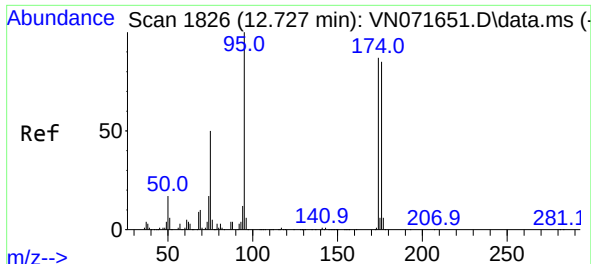
Tgt Ion: 76 Resp: 68350
Ion Ratio Lower Upper
76 100
78 0.4 26.2 39.2#



#59
2-Hexanone
Concen: 140.334 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.005 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 43 Resp: 877111
Ion Ratio Lower Upper
43 100
58 19.8 29.7 89.1#

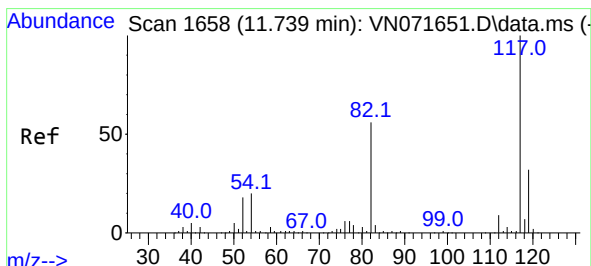
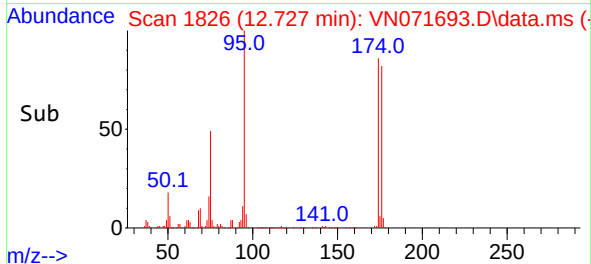
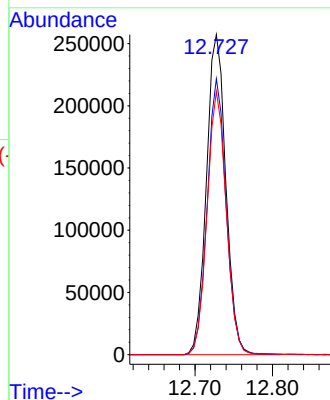
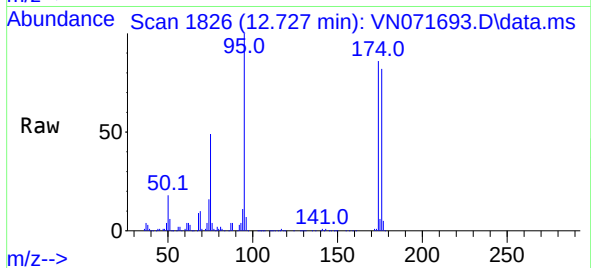




#62
4-Bromofluorobenzene
Concen: 55.732 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

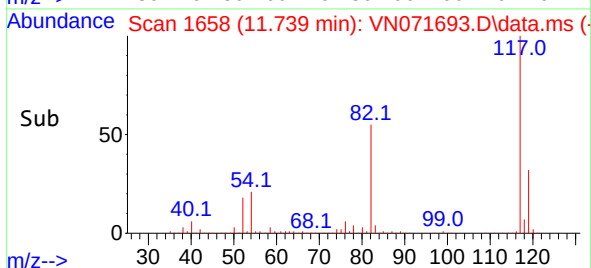
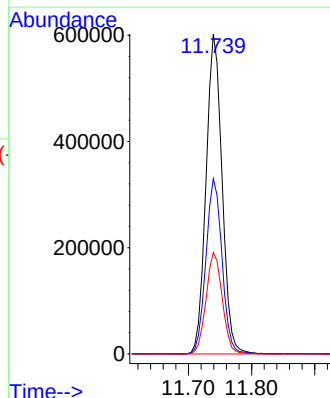
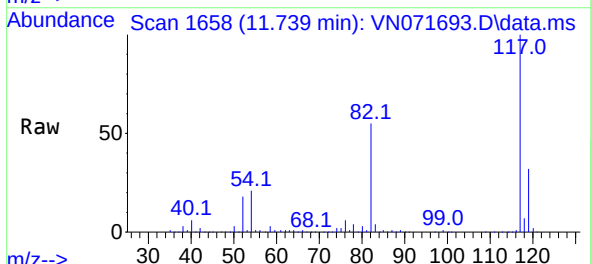
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

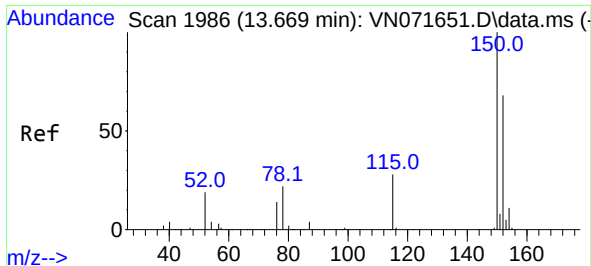
Tgt Ion: 95 Resp: 447819
Ion Ratio Lower Upper
95 100
174 83.9 0.0 167.6
176 81.0 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

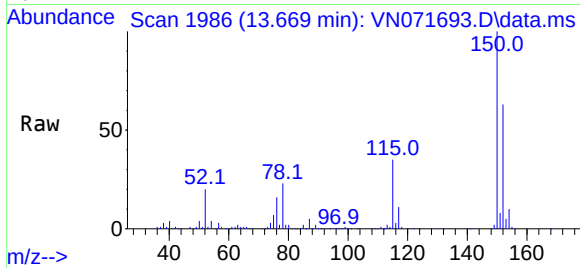
Tgt Ion: 117 Resp: 1060796
Ion Ratio Lower Upper
117 100
82 54.8 44.2 66.2
119 31.8 25.4 38.0



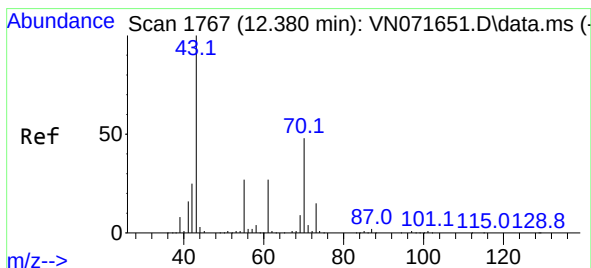
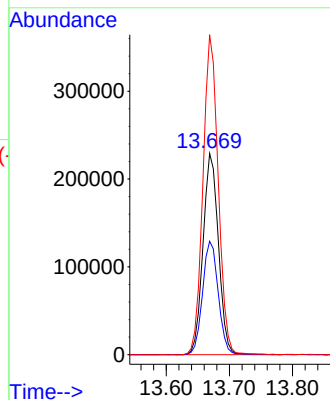
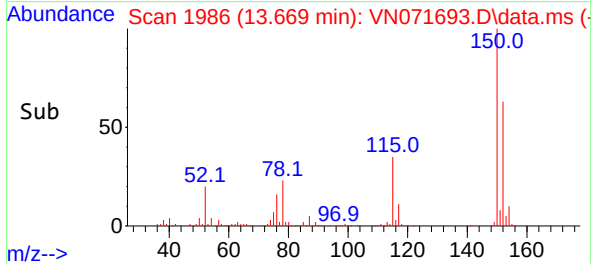


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. -0.000 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

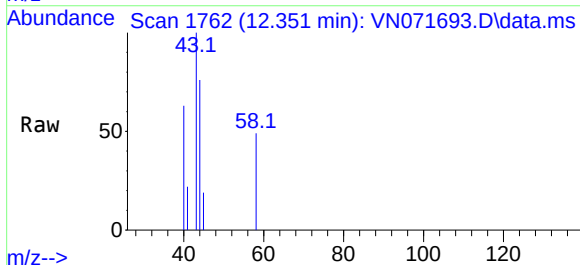
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08



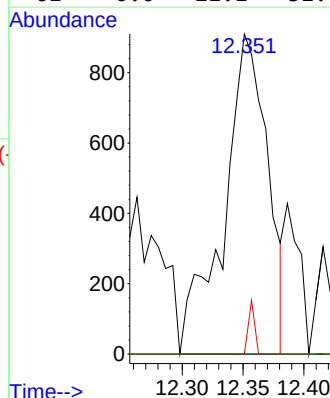
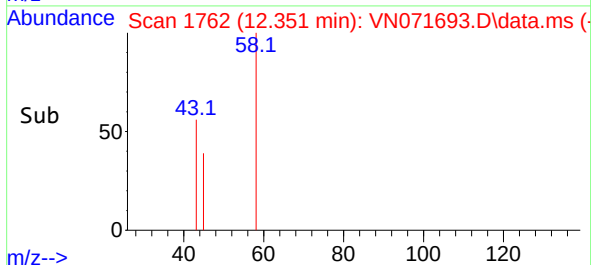
Tgt Ion:152 Resp: 388103
Ion Ratio Lower Upper
152 100
115 57.5 28.9 86.7
150 157.3 0.0 356.2

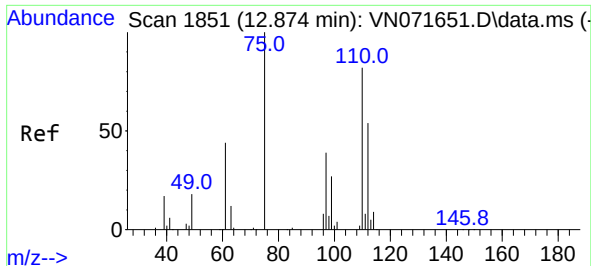


#74
N-ethyl acetate
Concen: 0.243 ug/l
RT: 12.351 min Scan# 1762
Delta R.T. -0.029 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45



Tgt Ion: 43 Resp: 2273
Ion Ratio Lower Upper
43 100
70 0.0 39.0 58.4#
55 2.4 21.1 31.7#
61 0.0 21.1 31.7#

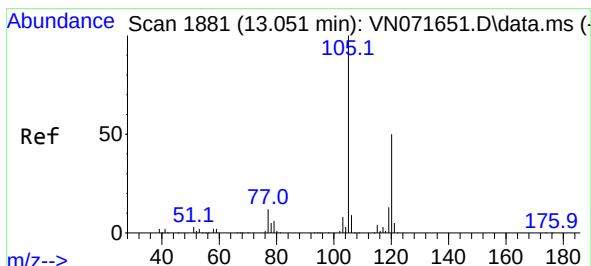
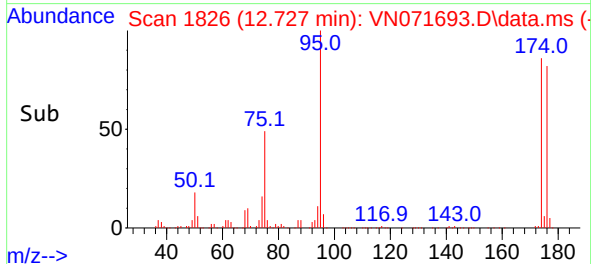
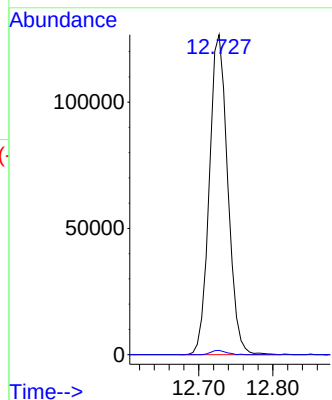
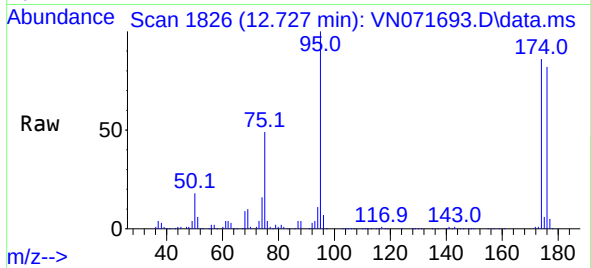




#76
1,2,3-Trichloropropane
Concen: 24.309 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

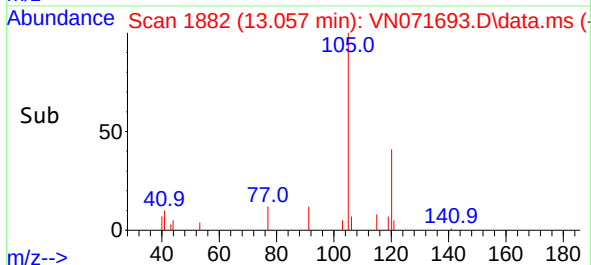
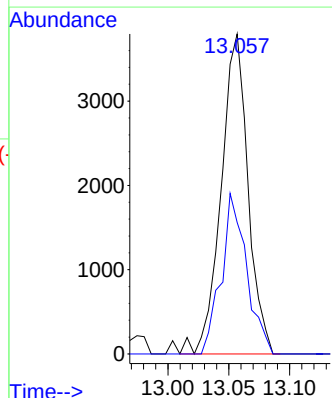
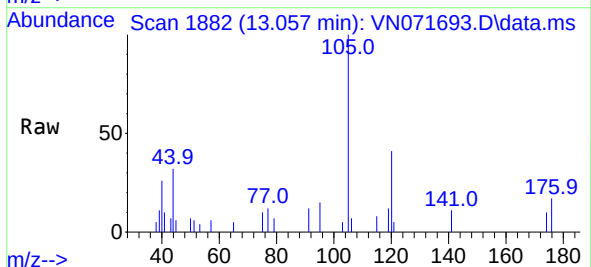
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

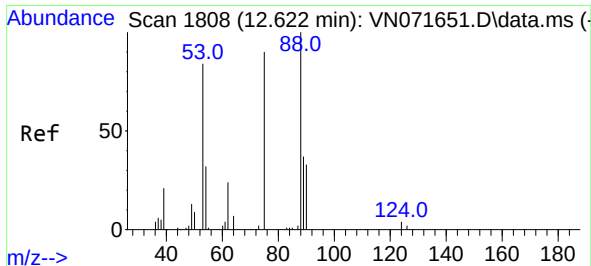
Tgt Ion: 75 Resp: 218557
Ion Ratio Lower Upper
75 100
77 1.1 98.5 295.5#



#80
1,3,5-Trimethylbenzene
Concen: 0.225 ug/l
RT: 13.057 min Scan# 1882
Delta R.T. 0.006 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion: 105 Resp: 5843
Ion Ratio Lower Upper
105 100
120 47.0 24.9 74.7

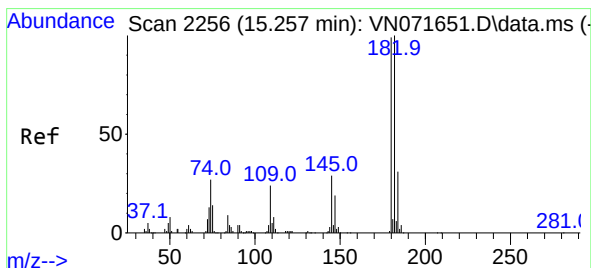
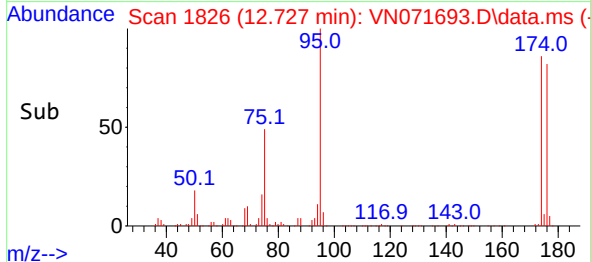
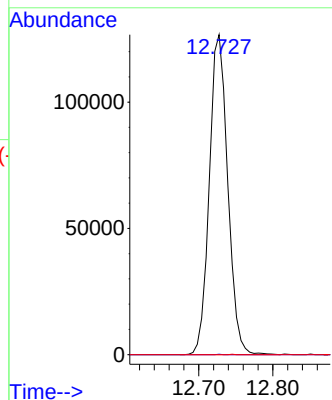
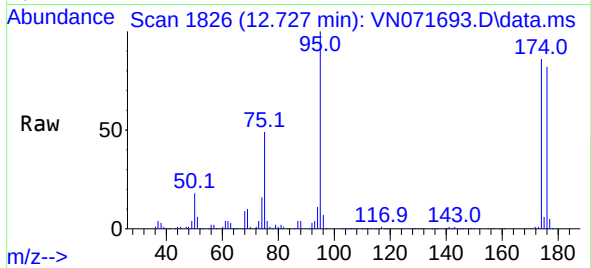




#81
trans-1,4-Dichloro-2-butene
Concen: 75.333 ug/l
RT: 12.727 min Scan# 11
Delta R.T. 0.105 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

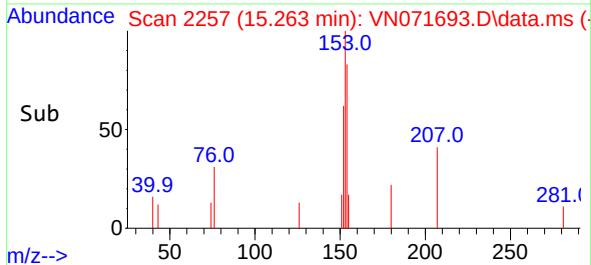
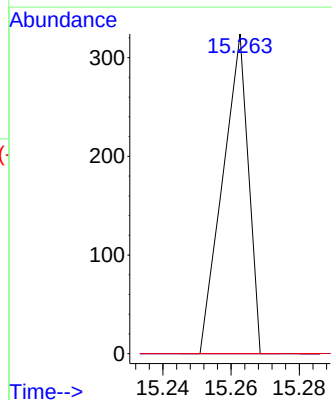
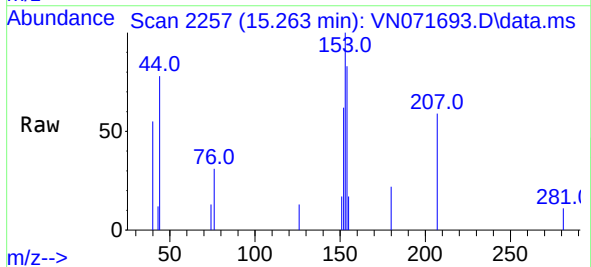
Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

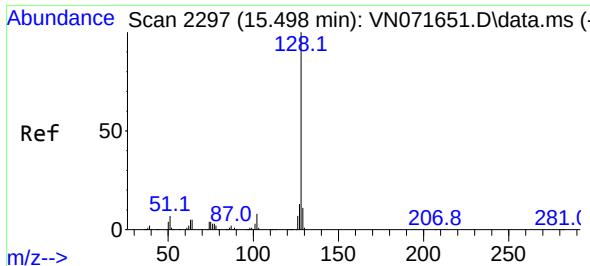
Tgt Ion: 75 Resp: 218557
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.112 ug/l
RT: 15.263 min Scan# 2257
Delta R.T. 0.006 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion:180 Resp: 169
Ion Ratio Lower Upper
180 100
182 0.0 47.5 142.5#
145 0.0 14.5 43.5#

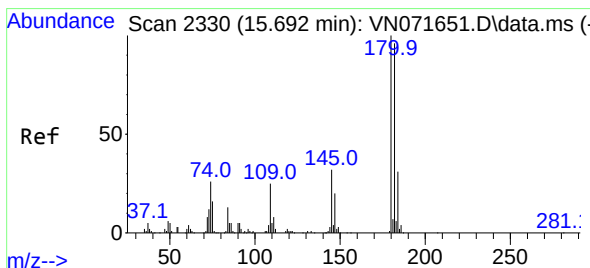
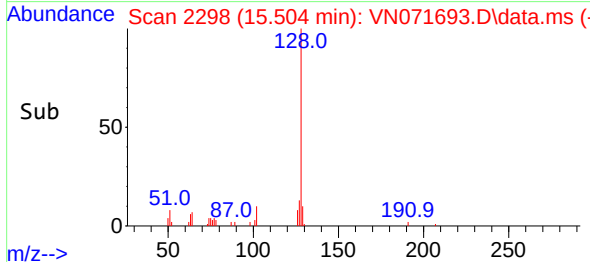
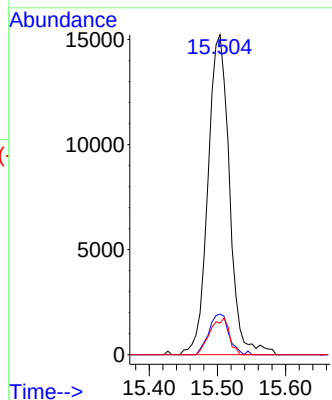
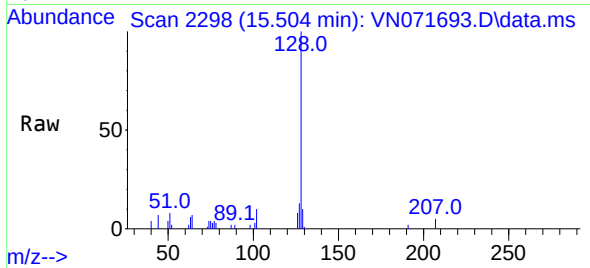




#95
Naphthalene
Concen: 5.552 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Instrument :
MSVOA_N
ClientSampleId :
PB143736ZHE#08

Tgt Ion:	128	Resp:	33462
Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.3	15.5
129	10.2	8.6	13.0



#96
1,2,3-Trichlorobenzene
Concen: 2.423 ug/l
RT: 15.698 min Scan# 2331
Delta R.T. 0.006 min
Lab File: VN071693.D
Acq: 31 Mar 2022 05:45

Tgt Ion:	180	Resp:	58
Ion	Ratio	Lower	Upper
180	100		
182	91.4	47.8	143.3
145	0.0	15.5	46.5#

