

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY072522\
 Data File : VY009689.D
 Acq On : 25 Jul 2022 17:02
 Operator : KP/MD
 Sample : N3855-03
 Misc : 4.46g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-03-072222

Quant Time: Jul 26 05:57:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071822S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 19 04:22:09 2022
 Response via : Initial Calibration

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

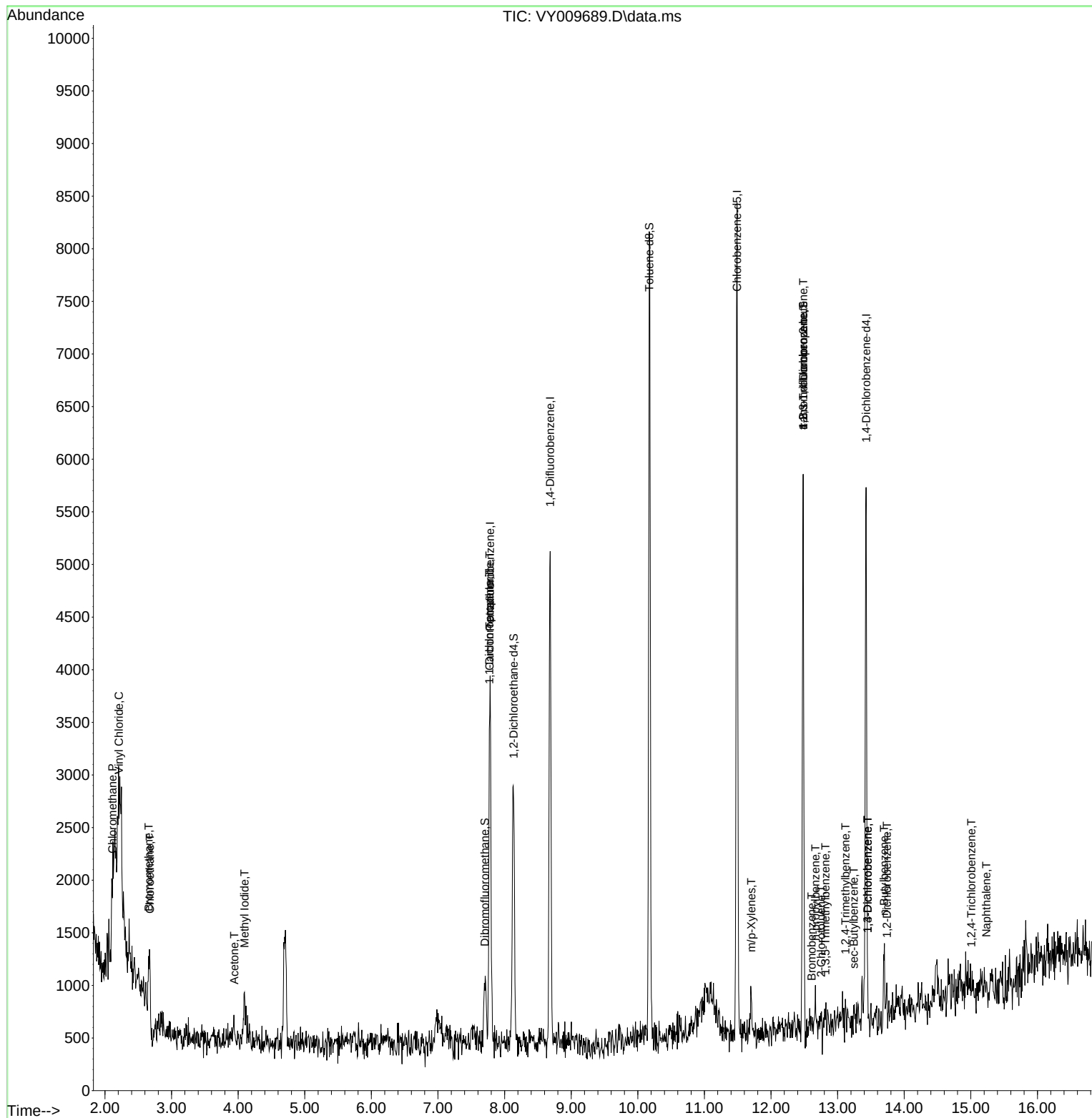
Internal Standards						
1) Pentafluorobenzene	7.783	168	3237	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	4779	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	4774	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	1594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	2122	69.314	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 138.620%	
35) Dibromofluoromethane	7.704	113	686	22.785	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 45.580%#	
50) Toluene-d8	10.173	98	5480	47.347	ug/l	0.00
Spiked Amount	50.000	Range	78 - 125	Recovery	= 94.700%	
62) 4-Bromofluorobenzene	12.483	95	1585	42.262	ug/l	0.00
Spiked Amount	50.000	Range	50 - 146	Recovery	= 84.520%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	217	5.155	ug/l #	44
4) Vinyl Chloride	2.211	62	111	2.522	ug/l #	43
5) Bromomethane	2.656	94	296	9.936	ug/l	94
6) Chloroethane	2.674	64	62	2.319	ug/l #	43
10) Methyl Iodide	4.095	142	706	17.426	ug/l #	80
16) Acetone	3.942	43	188	24.276	ug/l #	47
20) Methylene Chloride	4.686	84	339	Below Cal	#	69
36) 1,1-Dichloropropene	7.771	75	202	4.540	ug/l #	42
38) Carbon Tetrachloride	7.777	117	245	5.260	ug/l #	11
68) m/p-Xylenes	11.703	106	121	1.772	ug/l	91
76) 1,2,3-Trichloropropane	12.483	75	853	56.175	ug/l #	100
77) Bromobenzene	12.611	156	43	1.549	ug/l #	1
78) n-propylbenzene	12.666	91	224	1.680	ug/l #	53
79) 2-Chlorotoluene	12.752	91	76	1.028	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.819	105	110	1.206	ug/l #	28
81) trans-1,4-Dichloro-2-b...	12.483	75	853	110.766	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.117	105	123	1.349	ug/l #	31
85) sec-Butylbenzene	13.245	105	160	1.332	ug/l #	56
87) 1,3-Dichlorobenzene	13.453	146	63	1.148	ug/l #	22
88) 1,4-Dichlorobenzene	13.453	146	63	1.157	ug/l #	25
89) n-Butylbenzene	13.696	91	192	2.083	ug/l	87
91) 1,2-Dichlorobenzene	13.739	146	114	2.377	ug/l #	55
93) 1,2,4-Trichlorobenzene	15.007	180	44	1.462	ug/l #	54
95) Naphthalene	15.233	128	151	2.627	ug/l #	69

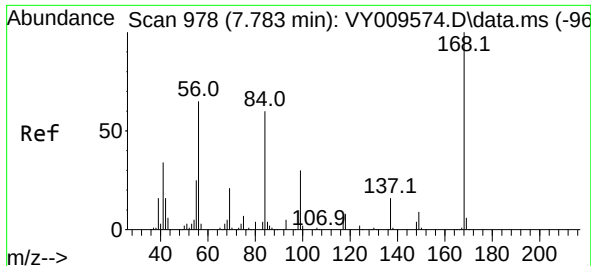
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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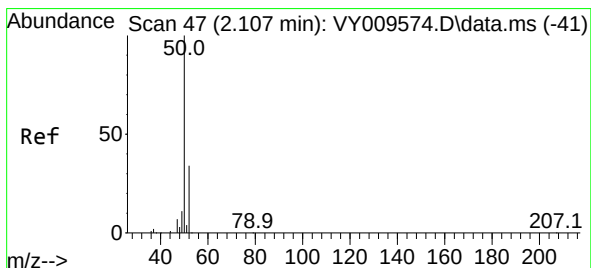
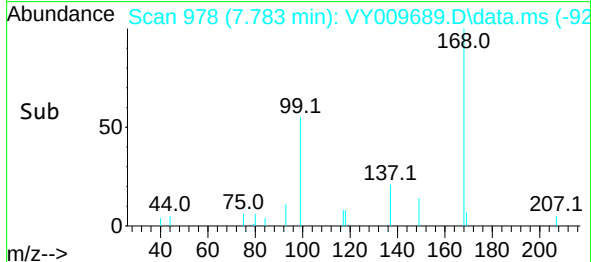
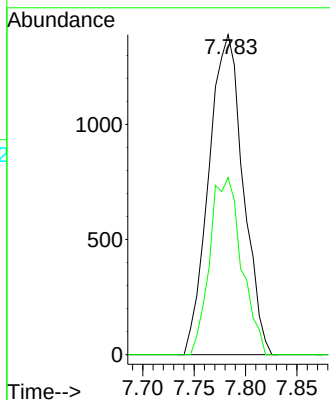
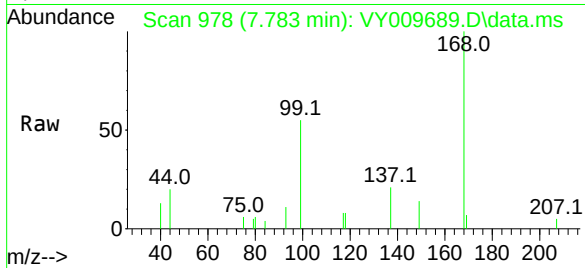




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

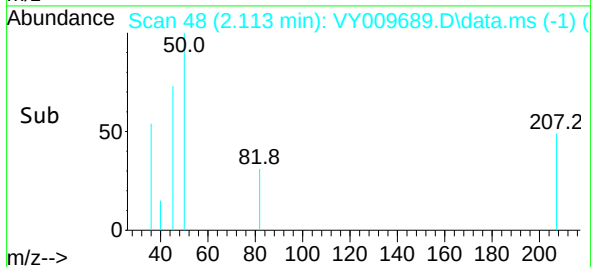
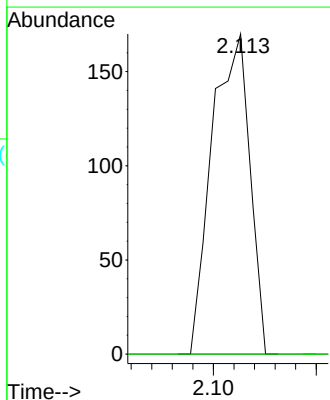
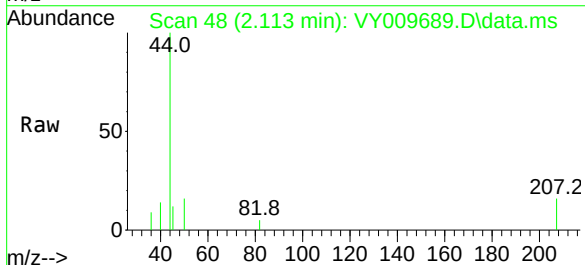
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222

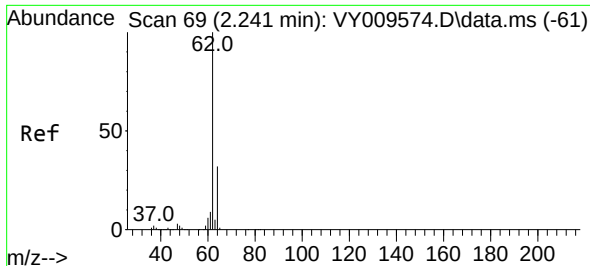
Tgt Ion:168 Resp: 3237
Ion Ratio Lower Upper
168 100
99 55.3 46.9 70.3



#3
Chloromethane
Concen: 5.155 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.006 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Tgt Ion: 50 Resp: 217
Ion Ratio Lower Upper
50 100
52 0.0 24.6 37.0#

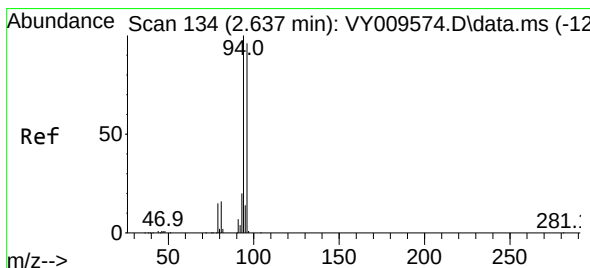
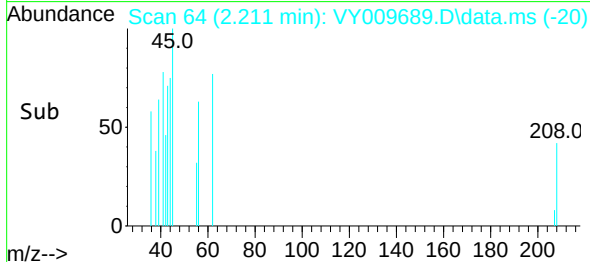
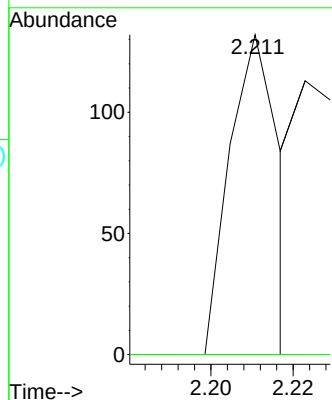
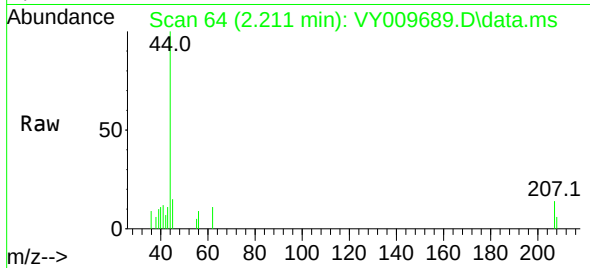




#4
 Vinyl Chloride
 Concen: 2.522 ug/l
 RT: 2.211 min Scan# 64
 Delta R.T. -0.030 min
 Lab File: VY009689.D
 Acq: 25 Jul 2022 17:02

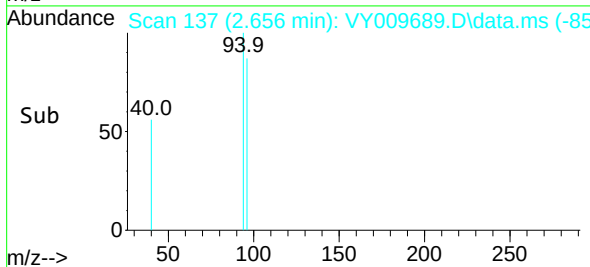
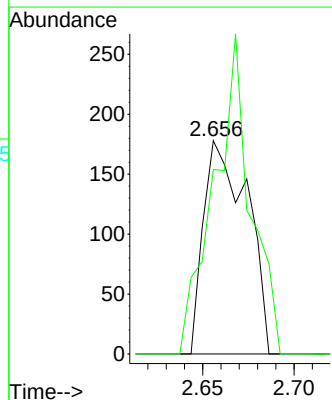
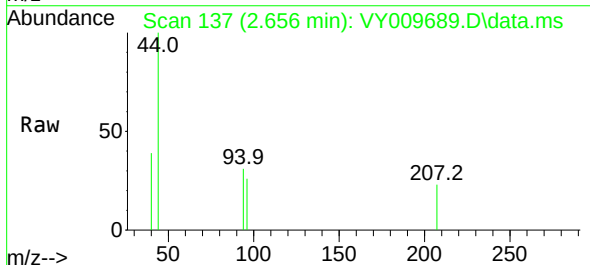
Instrument :
 MSVOA_Y
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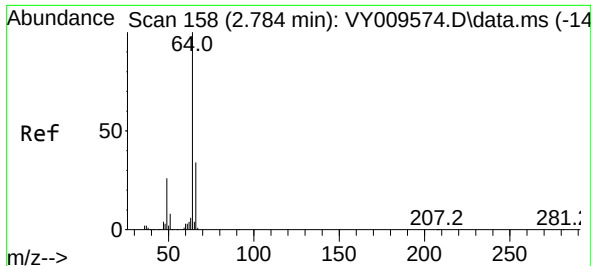
Tgt Ion: 62 Resp: 111
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.0 37.6#



#5
 Bromomethane
 Concen: 9.936 ug/l
 RT: 2.656 min Scan# 137
 Delta R.T. 0.018 min
 Lab File: VY009689.D
 Acq: 25 Jul 2022 17:02

Tgt Ion: 94 Resp: 296
 Ion Ratio Lower Upper
 94 100
 96 86.5 73.5 110.3

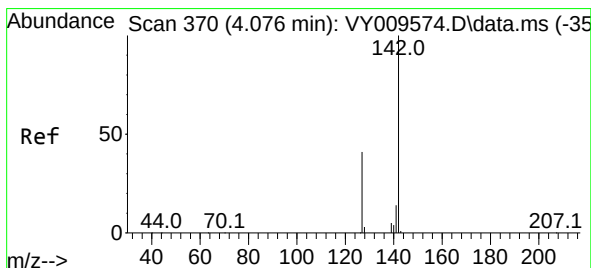
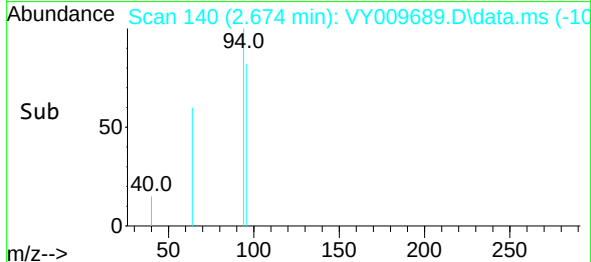
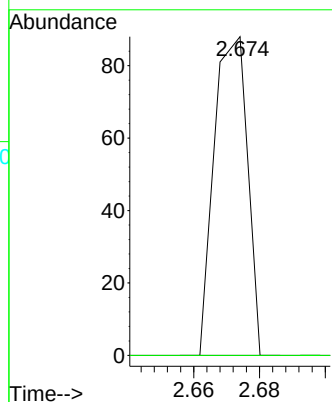
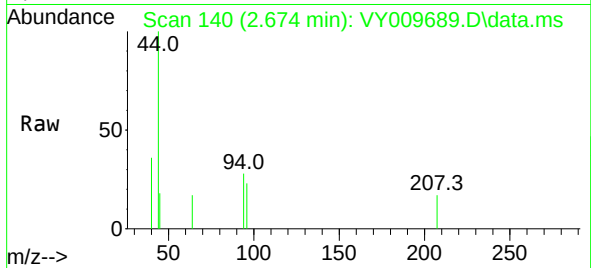




#6
Chloroethane
Concen: 2.319 ug/l
RT: 2.674 min Scan# 14
Delta R.T. -0.110 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

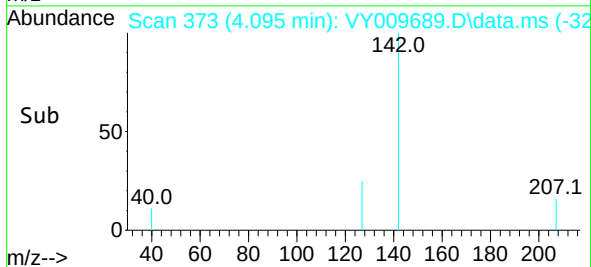
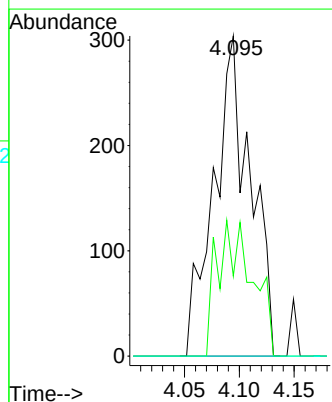
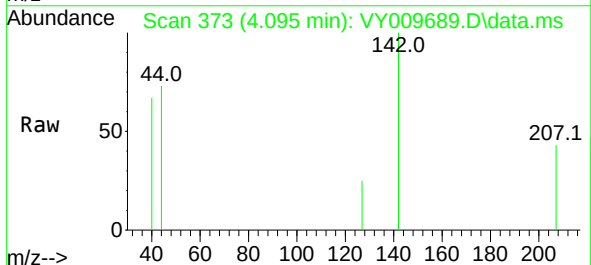
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222

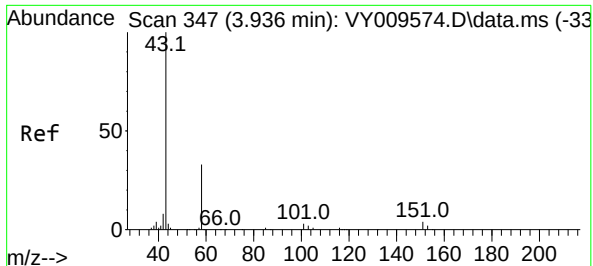
Tgt Ion: 64 Resp: 62
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.0#



#10
Methyl Iodide
Concen: 17.426 ug/l
RT: 4.095 min Scan# 373
Delta R.T. 0.018 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Tgt Ion:142 Resp: 706
Ion Ratio Lower Upper
142 100
127 40.7 41.5 62.3#
141 0.0 11.9 17.9#





#16

Acetone

Concen: 24.276 ug/l

RT: 3.942 min Scan# 34

Delta R.T. 0.006 min

Lab File: VY009689.D

Acq: 25 Jul 2022 17:02

Instrument :

MSVOA_Y

ClientSampleId :

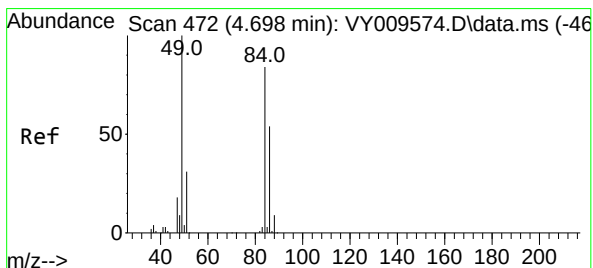
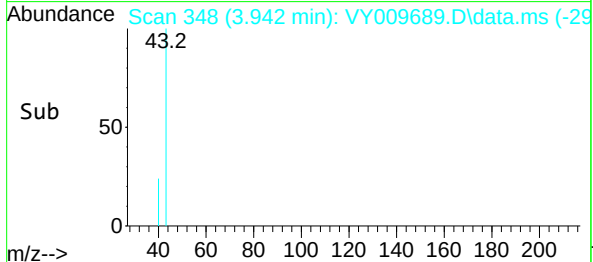
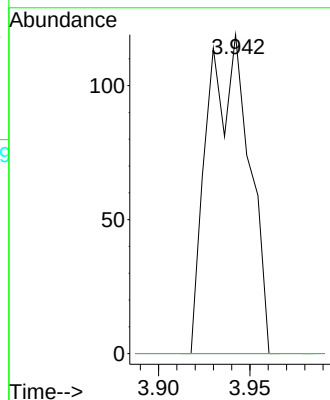
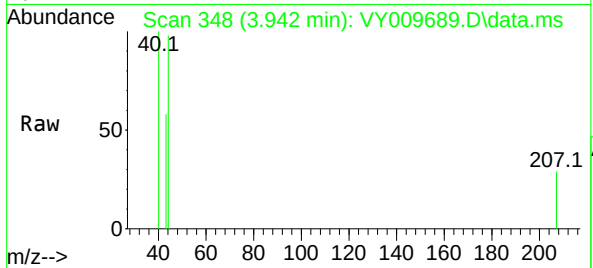
EO-03-072222

Tgt Ion: 43 Resp: 188

Ion Ratio Lower Upper

43 100

58 0.0 22.0 33.0#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.686 min Scan# 470

Delta R.T. -0.012 min

Lab File: VY009689.D

Acq: 25 Jul 2022 17:02

Tgt Ion: 84 Resp: 339

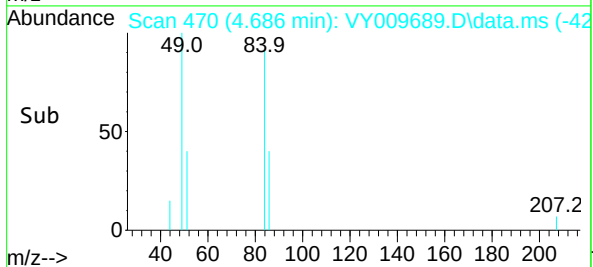
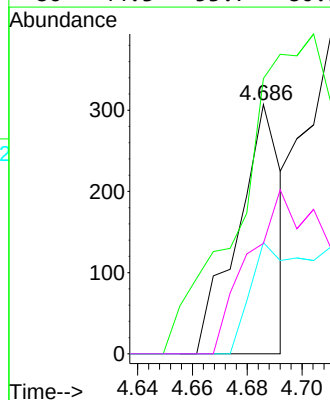
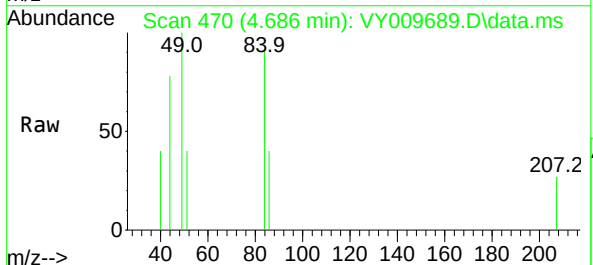
Ion Ratio Lower Upper

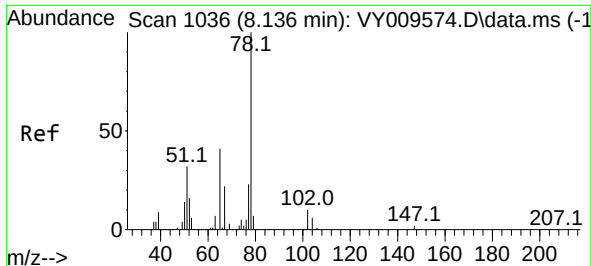
84 100

49 91.2 114.4 171.6#

51 44.6 35.3 52.9

86 44.3 53.7 80.5#

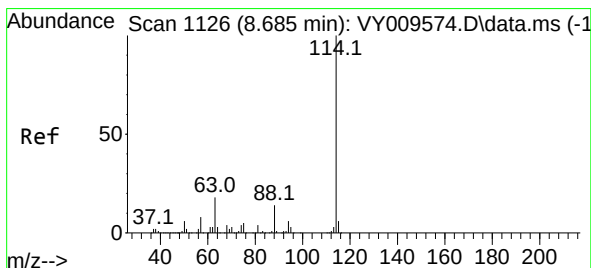
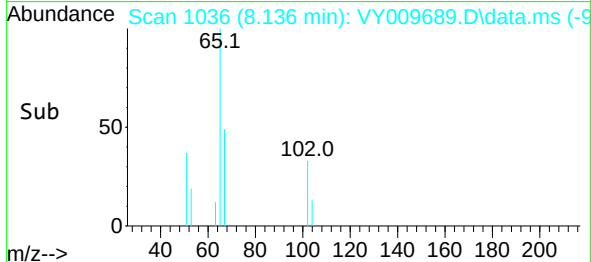
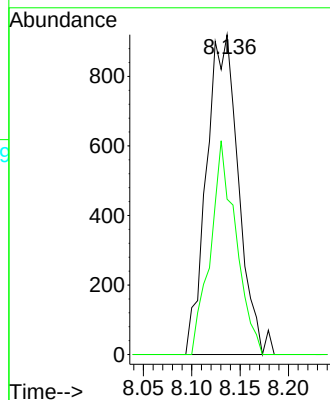
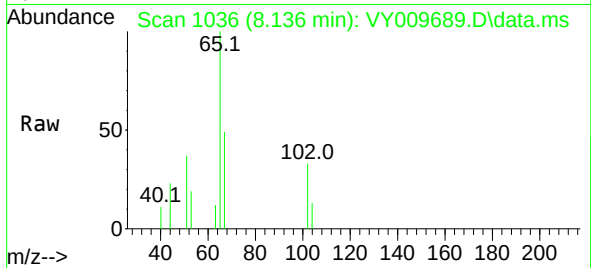




#33
 1,2-Dichloroethane-d4
 Concen: 69.314 ug/l
 RT: 8.136 min Scan# 1036
 Delta R.T. 0.000 min
 Lab File: VY009689.D
 Acq: 25 Jul 2022 17:02

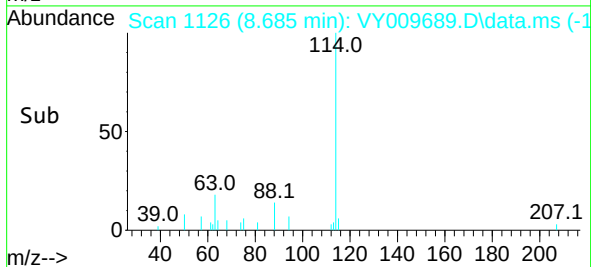
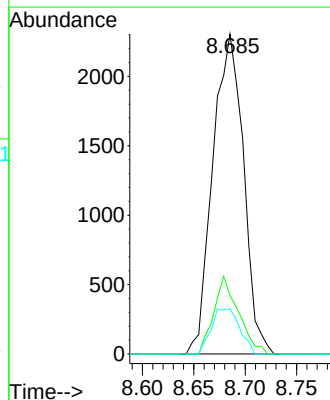
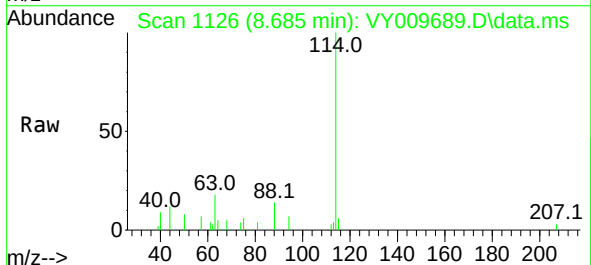
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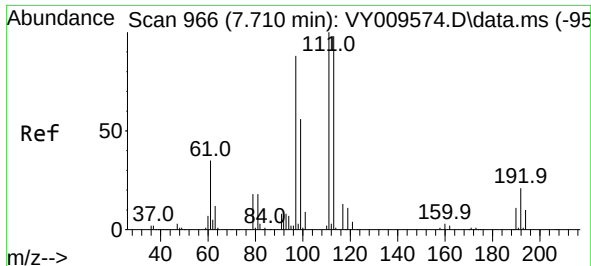
Tgt Ion: 65 Resp: 2122
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 99.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. 0.000 min
 Lab File: VY009689.D
 Acq: 25 Jul 2022 17:02

Tgt Ion: 114 Resp: 4779
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 43.2
 88 14.2 0.0 31.8

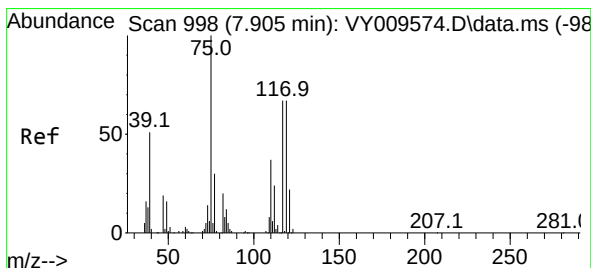
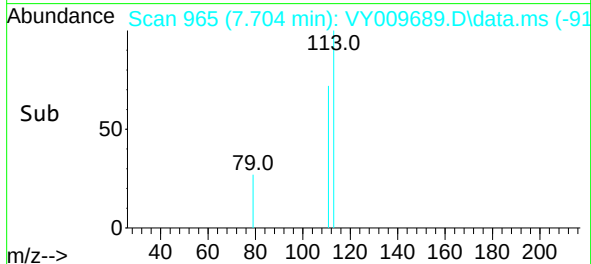
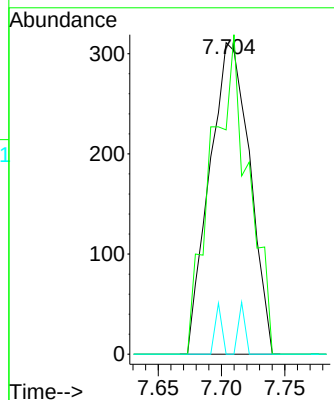
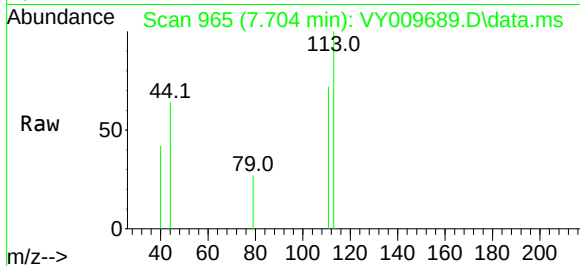




#35
Dibromofluoromethane
Concen: 22.785 ug/l
RT: 7.704 min Scan# 911
Delta R.T. -0.006 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

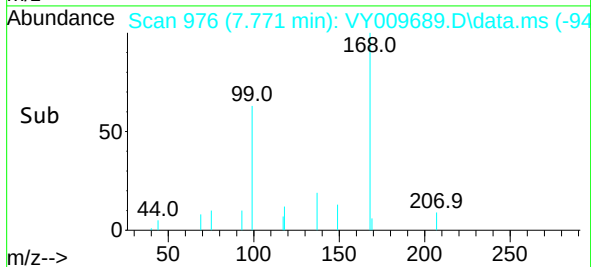
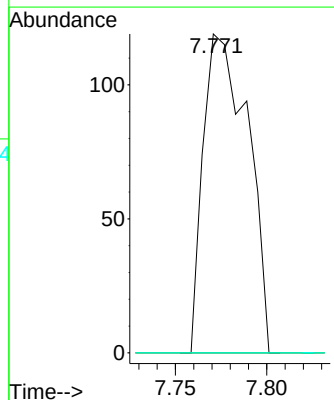
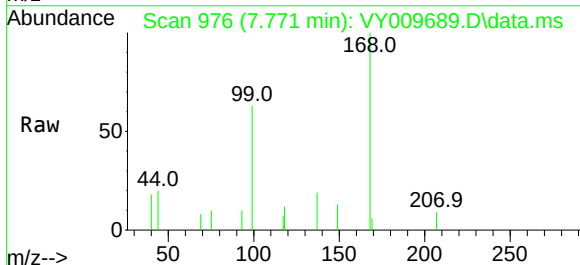
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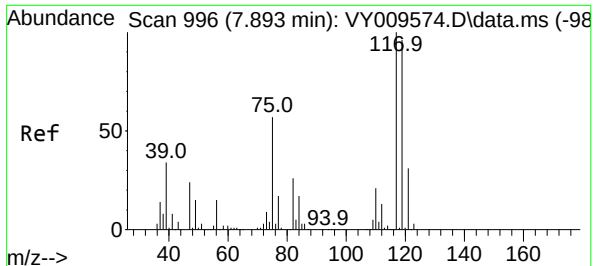
Tgt Ion:113 Resp: 686
Ion Ratio Lower Upper
113 100
111 0.0 82.6 124.0#
192 2.8 17.6 26.4#



#36
1,1-Dichloropropene
Concen: 4.540 ug/l
RT: 7.771 min Scan# 976
Delta R.T. -0.134 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

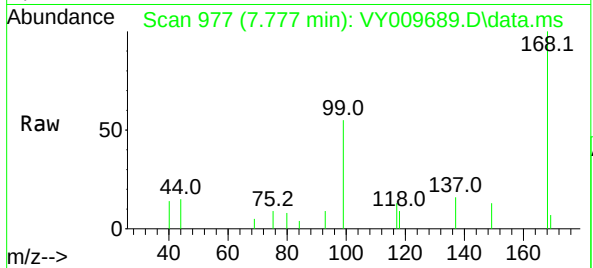
Tgt Ion: 75 Resp: 202
Ion Ratio Lower Upper
75 100
110 0.0 17.1 51.2#
77 0.0 24.4 36.6#



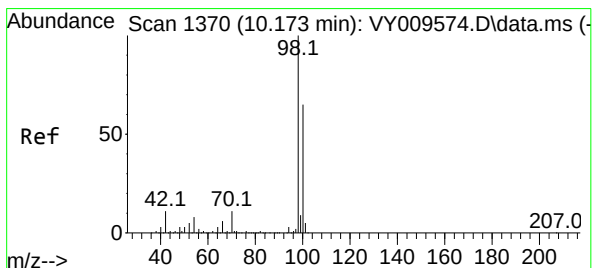
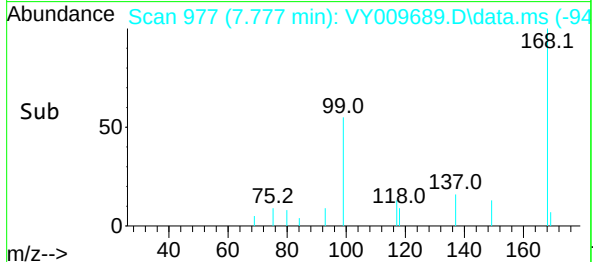
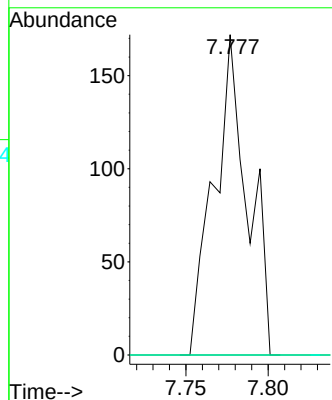


#38
Carbon Tetrachloride
Concen: 5.260 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222

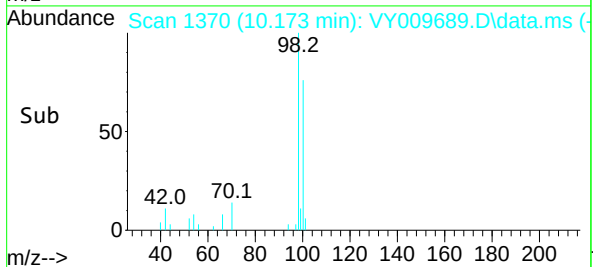
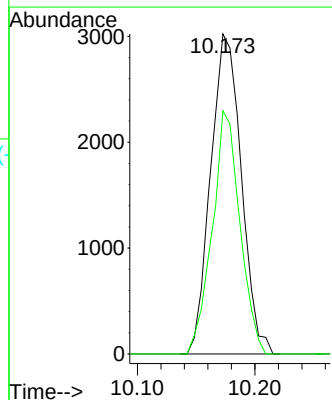
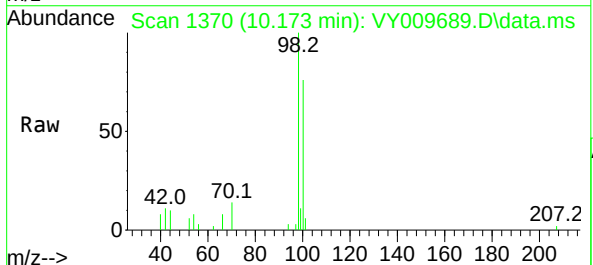


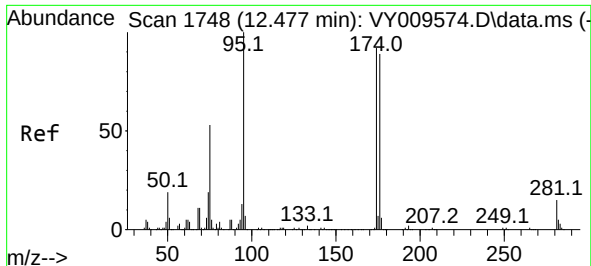
Tgt Ion:117 Resp: 245
Ion Ratio Lower Upper
117 100
119 0.0 77.9 116.9#
121 0.0 24.8 37.2#



#50
Toluene-d8
Concen: 47.347 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. 0.000 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

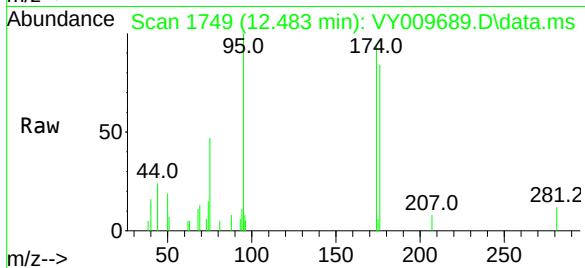
Tgt Ion: 98 Resp: 5480
Ion Ratio Lower Upper
98 100
100 68.6 50.2 75.2



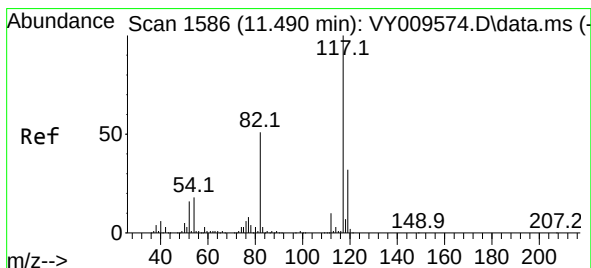
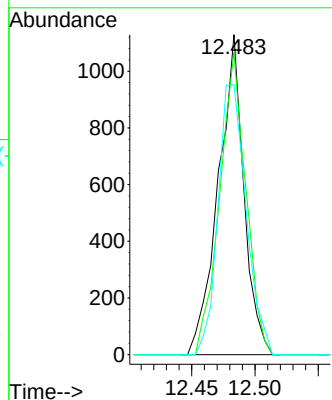
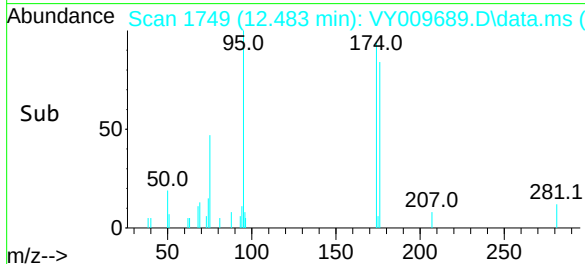


#62
4-Bromofluorobenzene
Concen: 42.262 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

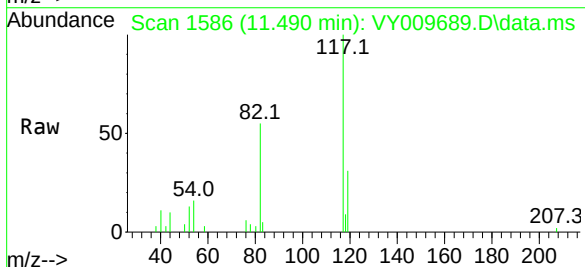
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222



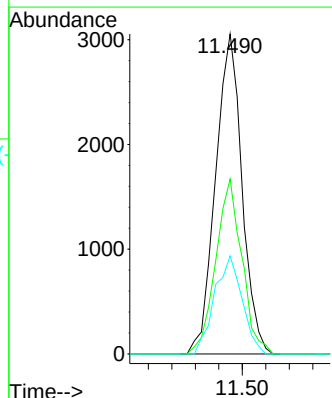
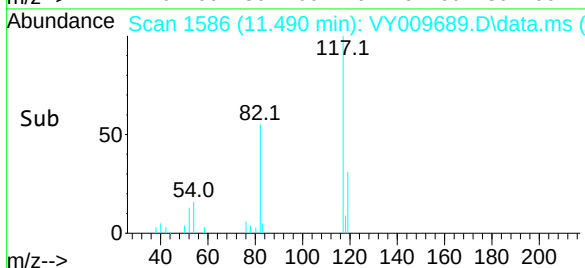
Tgt Ion: 95 Resp: 1585
Ion Ratio Lower Upper
95 100
174 96.9 0.0 177.0
176 92.9 0.0 175.8

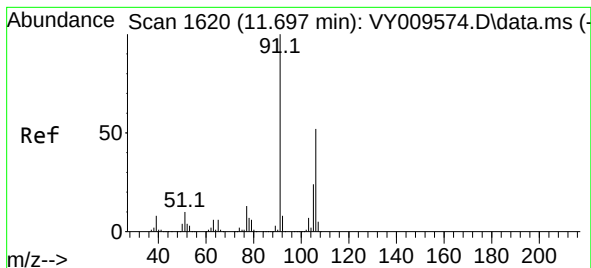


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02



Tgt Ion: 117 Resp: 4774
Ion Ratio Lower Upper
117 100
82 54.7 43.0 64.4
119 30.6 25.4 38.0

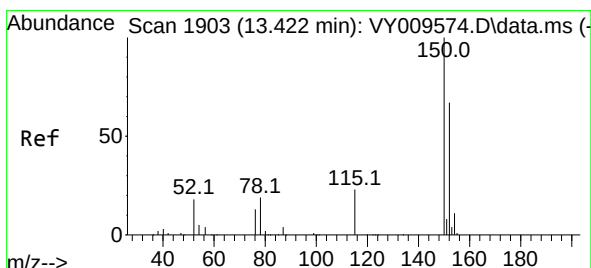
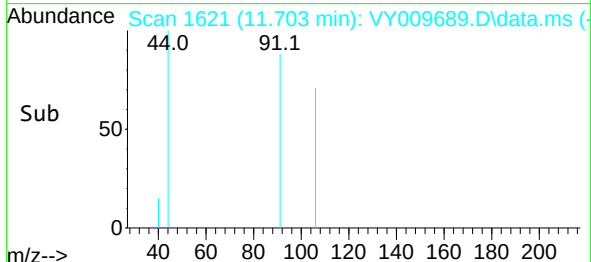
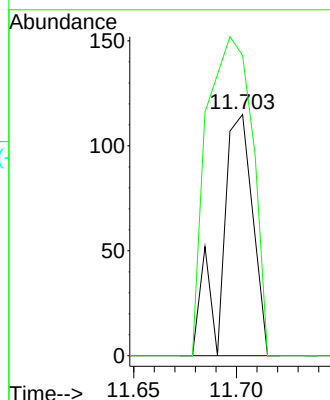
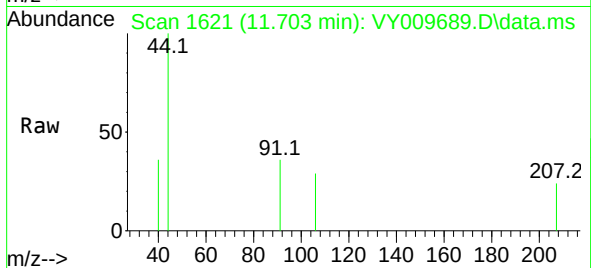




#68
m/p-Xylenes
Concen: 1.772 ug/l
RT: 11.703 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

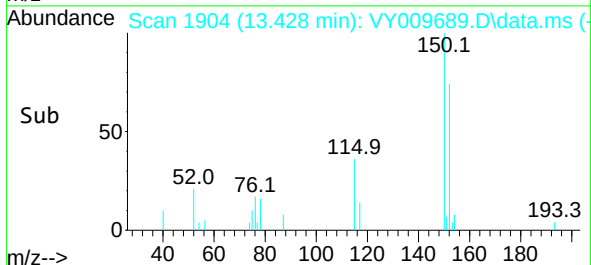
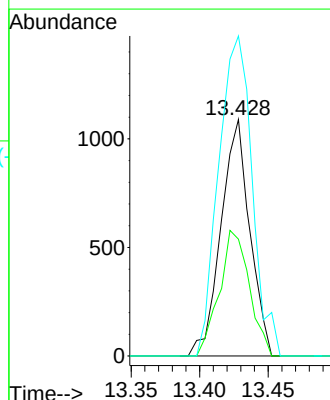
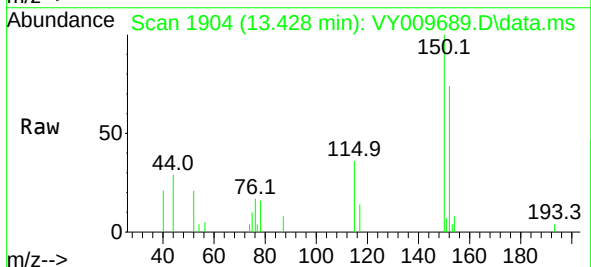
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222

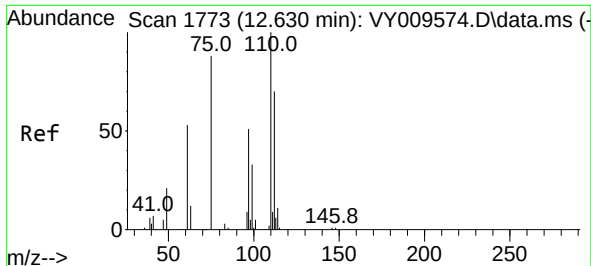
Tgt Ion:106 Resp: 121
Ion Ratio Lower Upper
106 100
91 194.2 166.6 249.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Tgt Ion:152 Resp: 1594
Ion Ratio Lower Upper
152 100
115 55.2 28.2 84.7
150 157.1 0.0 347.6

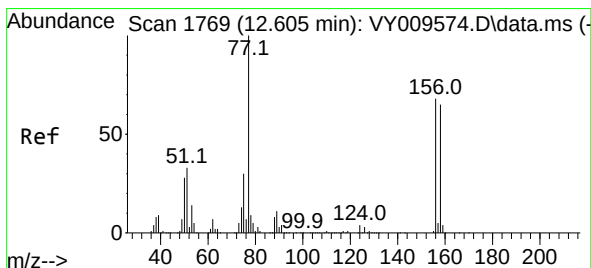
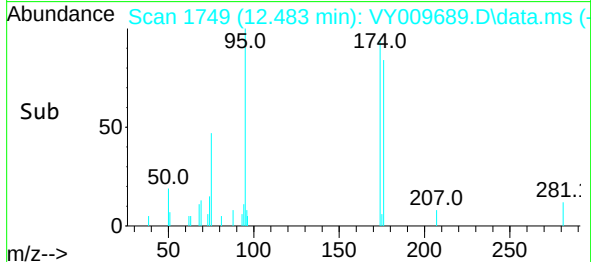
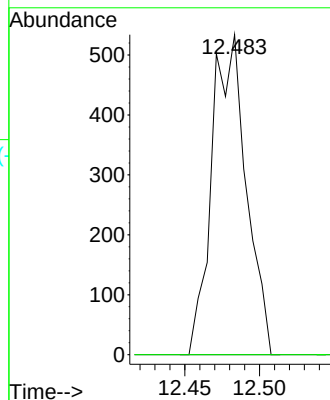
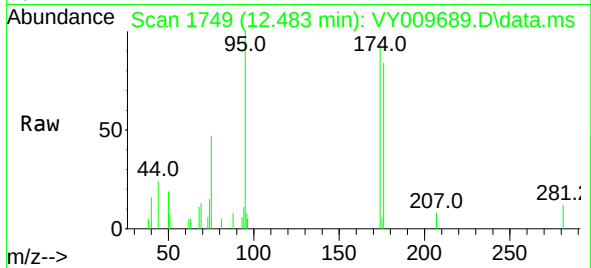




#76
1,2,3-Trichloropropane
Concen: 56.175 ug/l
RT: 12.483 min Scan# 1773
Delta R.T. -0.146 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

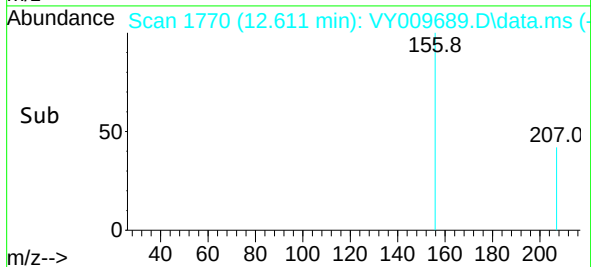
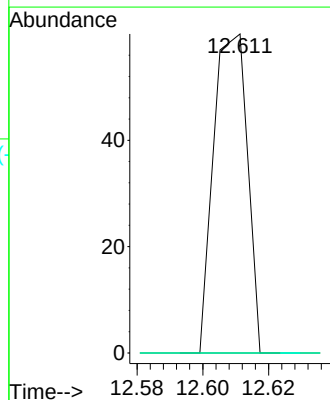
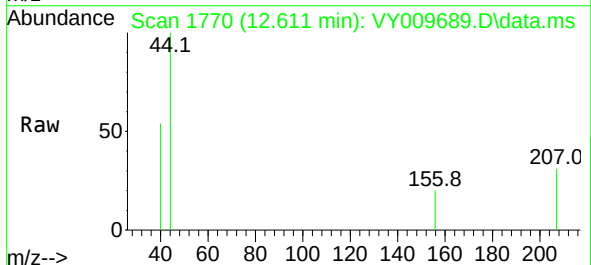
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222

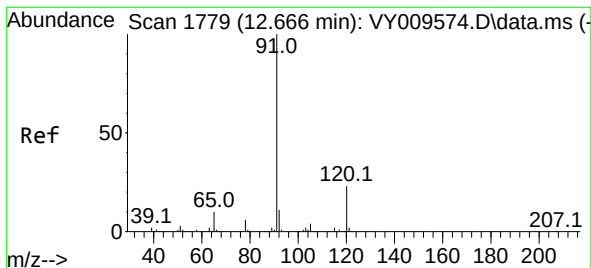
Tgt Ion: 75 Resp: 853
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#77
Bromobenzene
Concen: 1.549 ug/l
RT: 12.611 min Scan# 1770
Delta R.T. 0.006 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Tgt Ion: 156 Resp: 43
Ion Ratio Lower Upper
156 100
77 0.0 95.5 286.4#
158 0.0 48.0 144.0#





#78

n-propylbenzene

Concen: 1.680 ug/l

RT: 12.666 min Scan# 1779

Delta R.T. 0.000 min

Lab File: VY009689.D

Acq: 25 Jul 2022 17:02

Instrument :

MSVOA_Y

ClientSampleId :

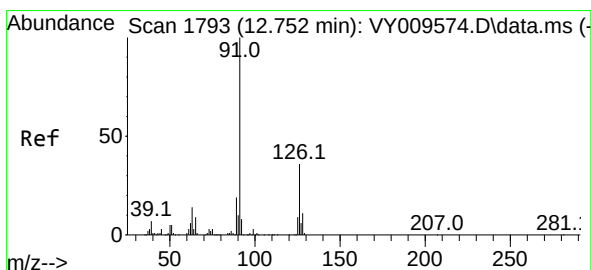
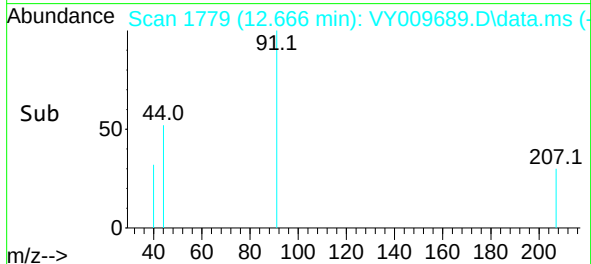
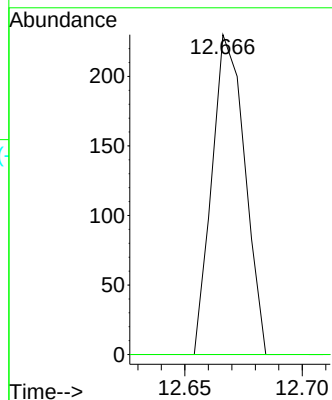
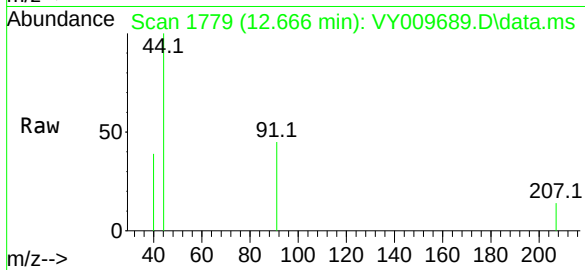
EO-03-072222

Tgt Ion: 91 Resp: 224

Ion Ratio Lower Upper

91 100

120 0.0 11.3 33.9#



#79

2-Chlorotoluene

Concen: 1.028 ug/l

RT: 12.752 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VY009689.D

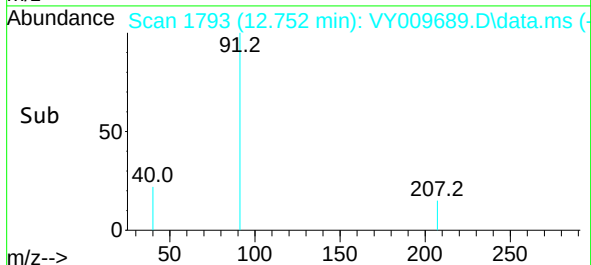
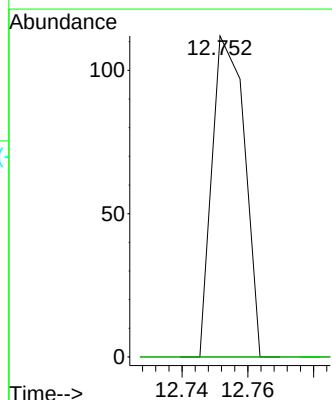
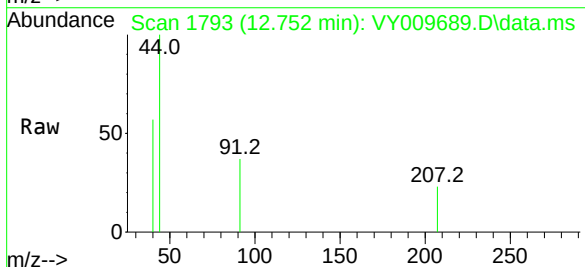
Acq: 25 Jul 2022 17:02

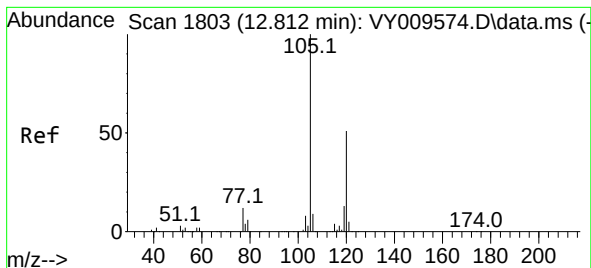
Tgt Ion: 91 Resp: 76

Ion Ratio Lower Upper

91 100

126 0.0 16.9 50.6#





#80

1,3,5-Trimethylbenzene

Concen: 1.206 ug/l

RT: 12.819 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY009689.D

Acq: 25 Jul 2022 17:02

Instrument :

MSVOA_Y

ClientSampleId :

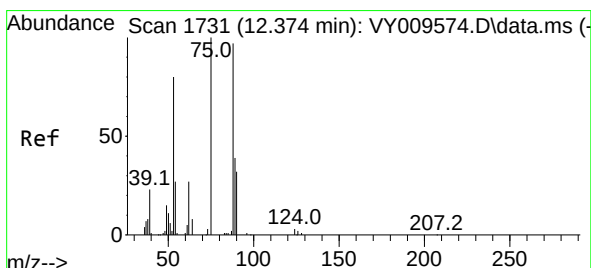
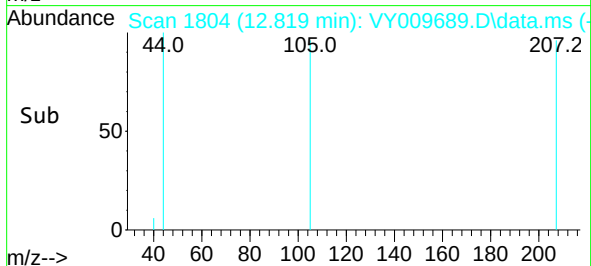
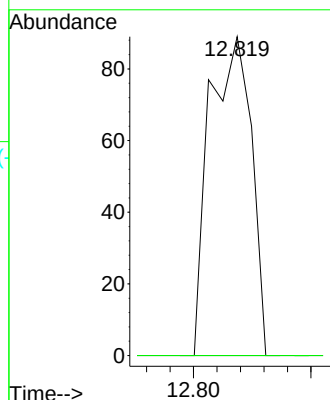
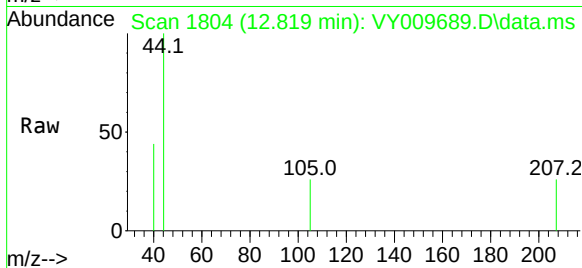
EO-03-072222

Tgt Ion:105 Resp: 110

Ion Ratio Lower Upper

105 100

120 0.0 24.4 73.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 110.766 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.110 min

Lab File: VY009689.D

Acq: 25 Jul 2022 17:02

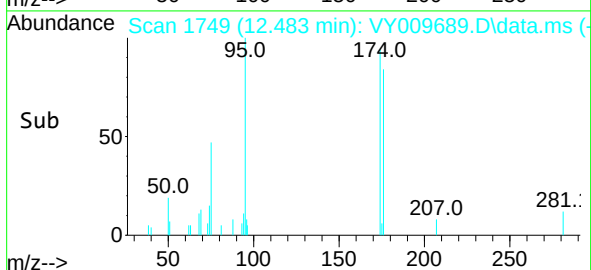
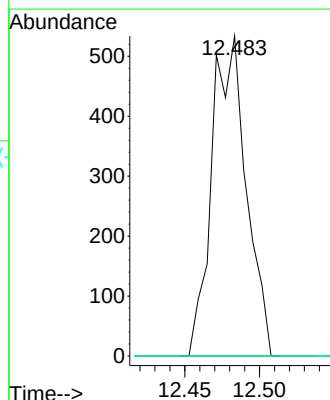
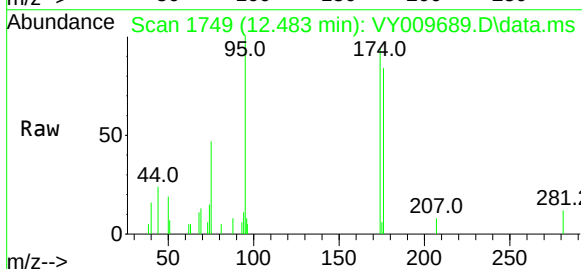
Tgt Ion: 75 Resp: 853

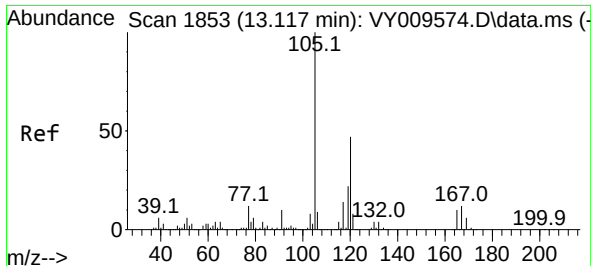
Ion Ratio Lower Upper

75 100

53 0.0 85.3 127.9#

89 0.0 37.0 55.4#

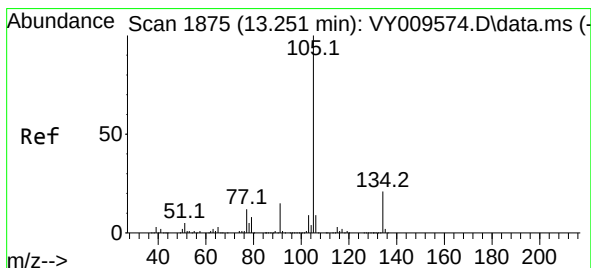
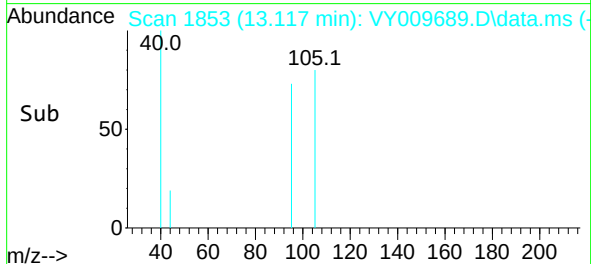
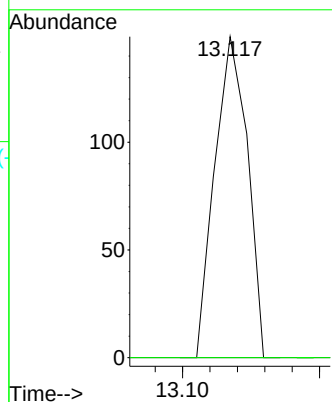
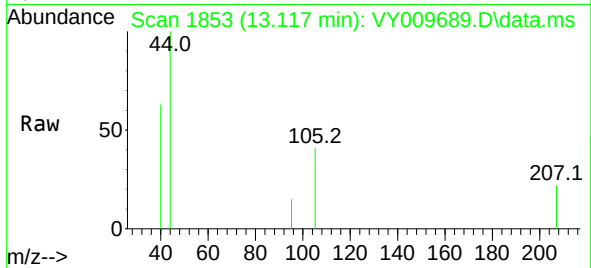




#84
1,2,4-Trimethylbenzene
Concen: 1.349 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

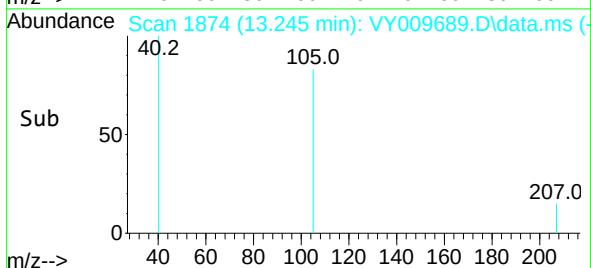
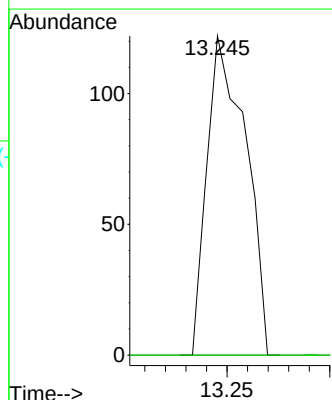
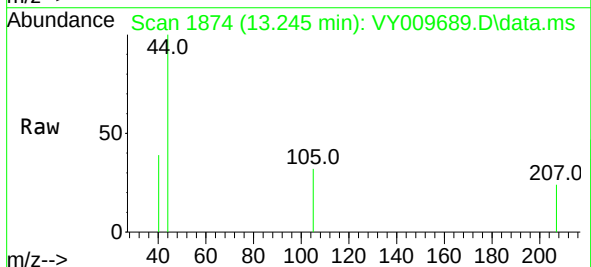
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222

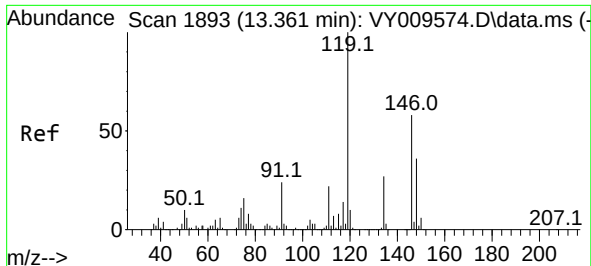
Tgt Ion:105 Resp: 123
Ion Ratio Lower Upper
105 100
120 0.0 22.3 66.9#



#85
sec-Butylbenzene
Concen: 1.332 ug/l
RT: 13.245 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Tgt Ion:105 Resp: 160
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.4#

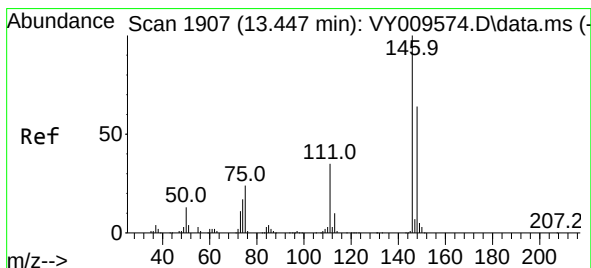
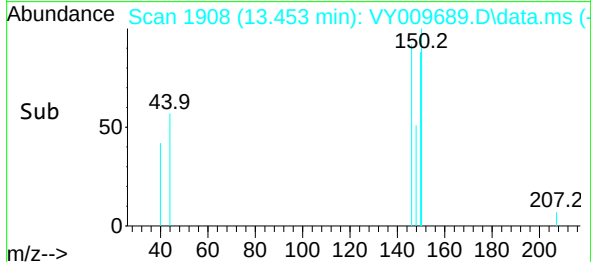
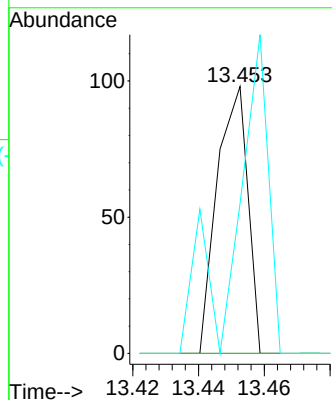
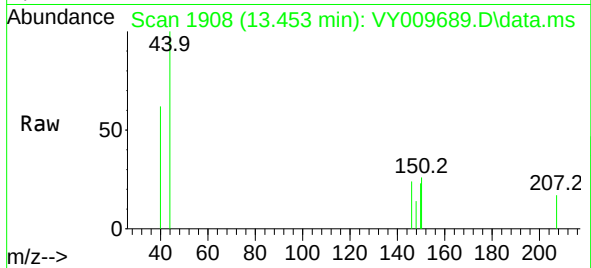




#87
1,3-Dichlorobenzene
Concen: 1.148 ug/l
RT: 13.453 min Scan# 1908
Delta R.T. 0.091 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

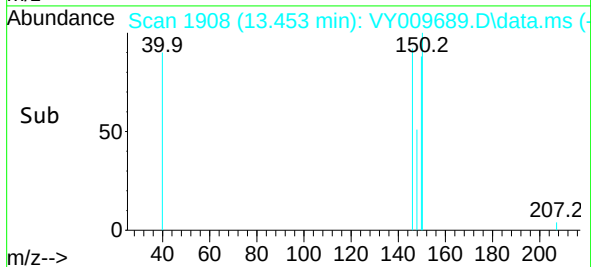
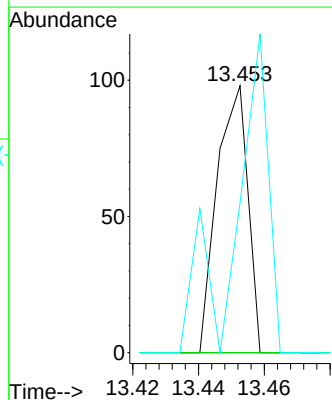
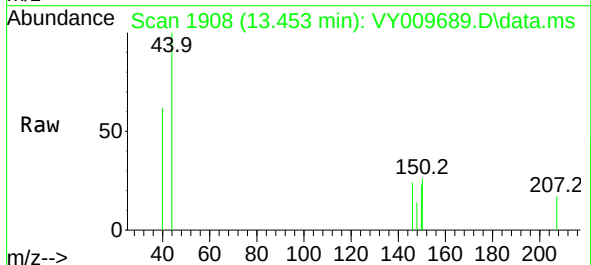
Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222

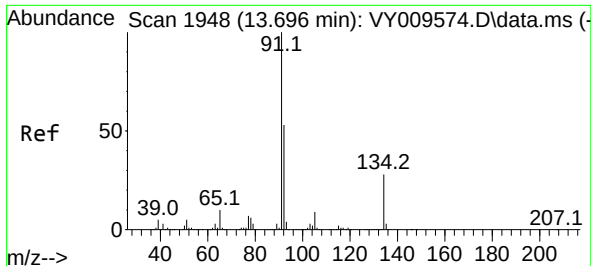
Tgt Ion:146 Resp: 63
Ion Ratio Lower Upper
146 100
111 0.0 19.5 58.5#
148 130.2 31.6 95.0#



#88
1,4-Dichlorobenzene
Concen: 1.157 ug/l
RT: 13.453 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Tgt Ion:146 Resp: 63
Ion Ratio Lower Upper
146 100
111 0.0 19.3 57.8#
148 130.2 32.6 97.8#





#89

n-Butylbenzene

Concen: 2.083 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY009689.D

Acq: 25 Jul 2022 17:02

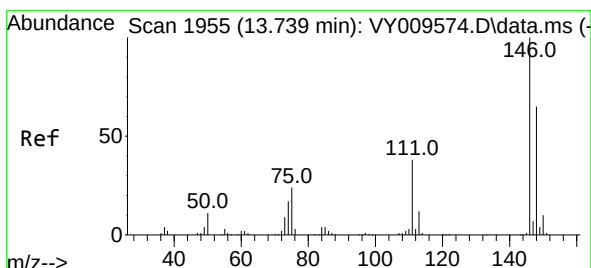
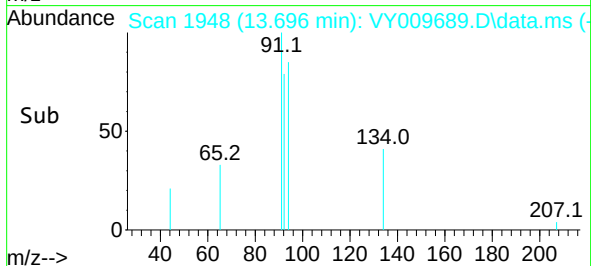
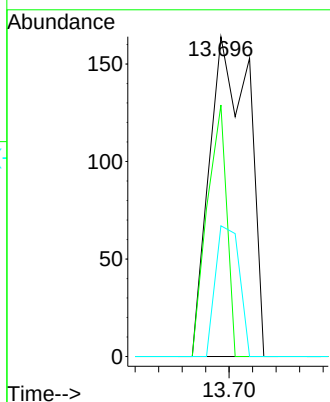
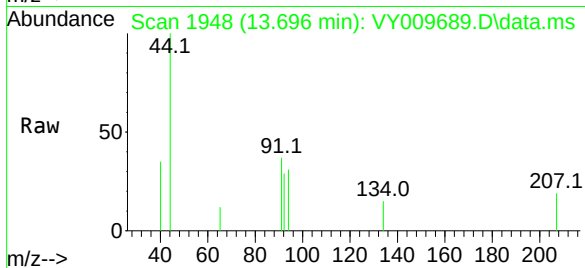
Instrument :

MSVOA_Y

ClientSampleId :

EO-03-072222

Tgt Ion: 91	Resp:	192
Ion Ratio	Lower	Upper
91	100	
92	39.1	26.3 78.9
134	25.0	13.0 38.9



#91

1,2-Dichlorobenzene

Concen: 2.377 ug/l

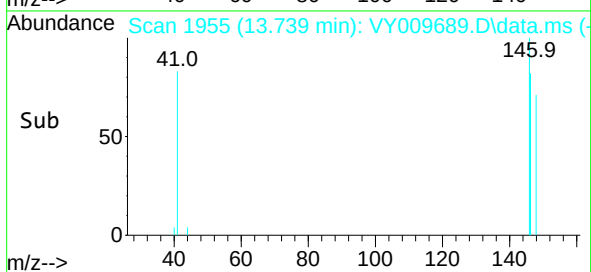
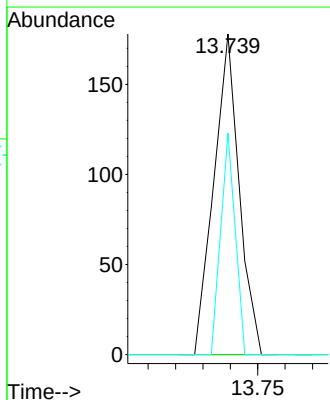
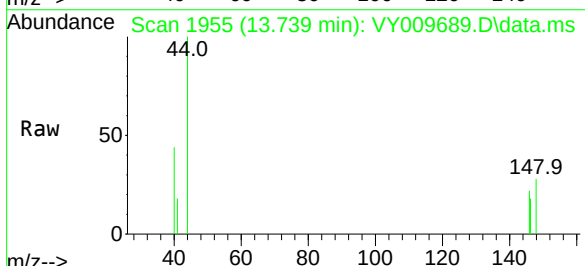
RT: 13.739 min Scan# 1955

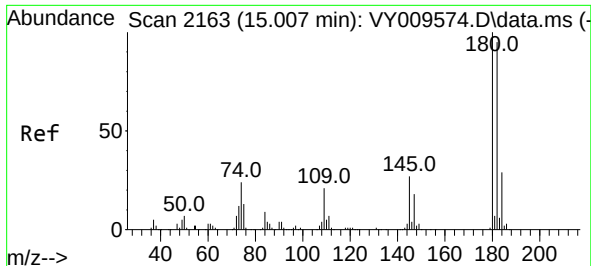
Delta R.T. 0.000 min

Lab File: VY009689.D

Acq: 25 Jul 2022 17:02

Tgt Ion: 146	Resp:	114
Ion Ratio	Lower	Upper
146	100	
111	0.0	20.3 60.9#
148	39.5	32.3 96.9

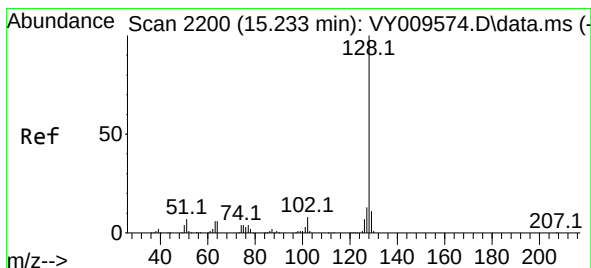
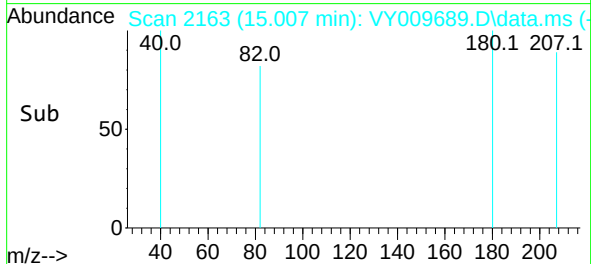
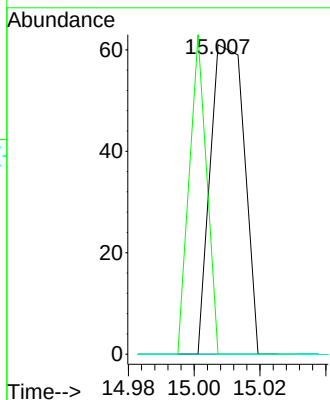
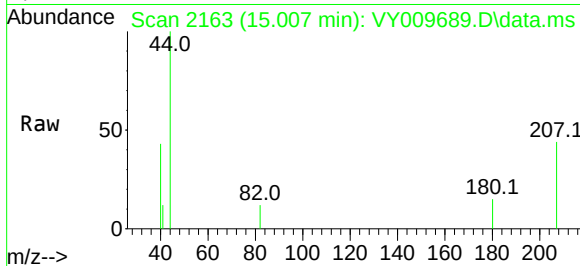




#93
1,2,4-Trichlorobenzene
Concen: 1.462 ug/l
RT: 15.007 min Scan# 2163
Delta R.T. 0.000 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Instrument :
MSVOA_Y
ClientSampleId :
EO-03-072222

Tgt Ion:180 Resp: 44
Ion Ratio Lower Upper
180 100
182 52.3 47.3 141.9
145 0.0 14.6 43.8#



#95
Naphthalene
Concen: 2.627 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY009689.D
Acq: 25 Jul 2022 17:02

Tgt Ion:128 Resp: 151
Ion Ratio Lower Upper
128 100
127 0.0 11.0 16.4#
129 0.0 8.4 12.6#

