

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY030425\
 Data File : VY021402.D
 Acq On : 04 Mar 2025 11:52
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Mar 05 04:06:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 03:21:56 2025
 Response via : Initial Calibration

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

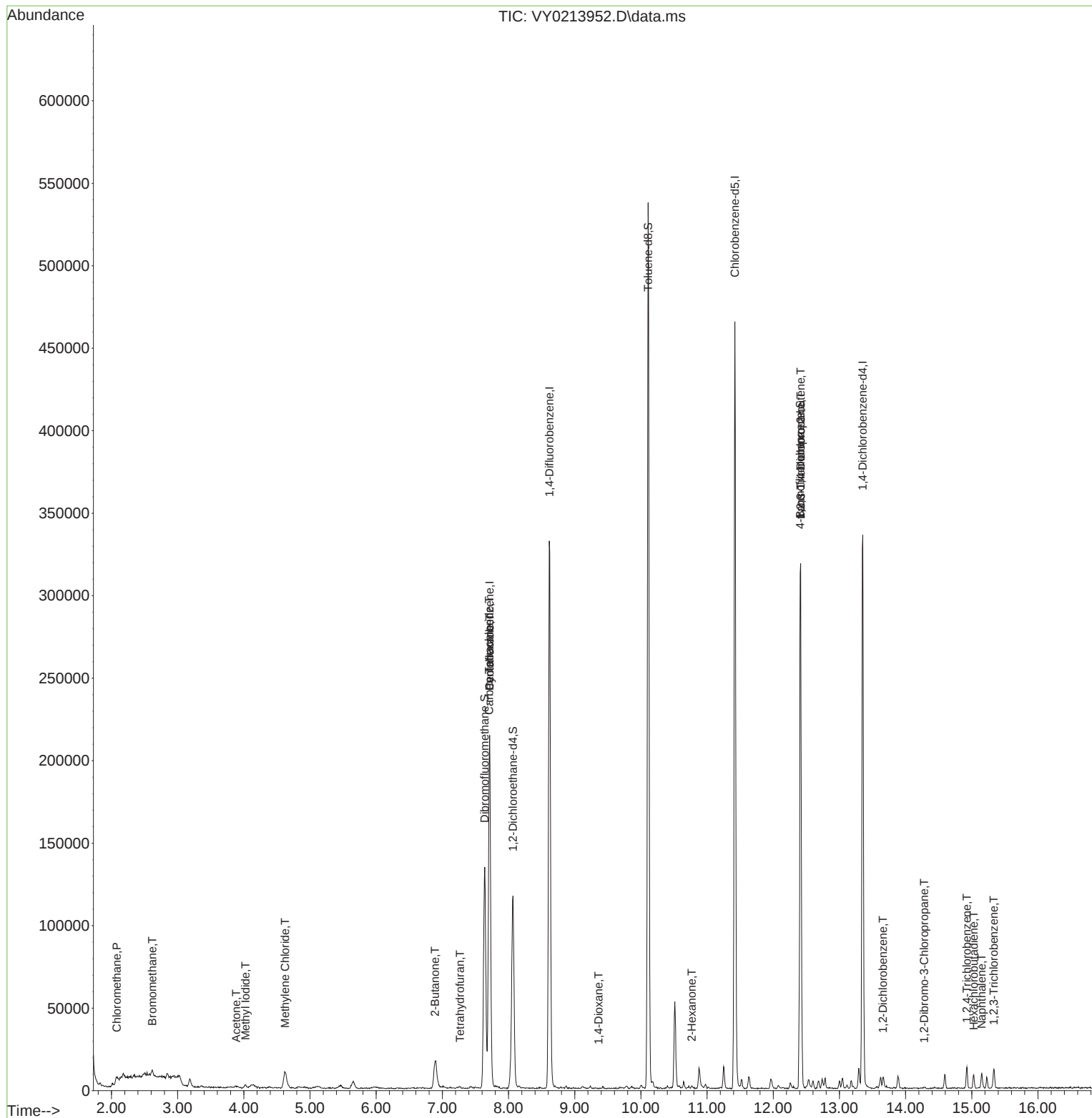
Internal Standards						
1) Pentafluorobenzene	7.713	168	161980	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	282720	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	238175	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	83945	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	88334	51.596	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.200%			
35) Dibromofluoromethane	7.640	113	94372	50.782	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.560%			
50) Toluene-d8	10.109	98	336795	47.865	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 95.740%			
62) 4-Bromofluorobenzene	12.408	95	94177	39.347	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 78.700%			
Target Compounds					Qvalue	
3) Chloromethane	2.080	50	2275	1.086	ug/l #	85
5) Bromomethane	2.617	94	2509	1.516	ug/l	100
10) Methyl Iodide	4.025	142	2832	1.527	ug/l #	90
11) Tert butyl alcohol	4.866	59	661	Below Cal	#	72
16) Acetone	3.885	43	2022	5.415	ug/l #	89
20) Methylene Chloride	4.622	84	7252	3.700	ug/l	92
25) 2-Butanone	6.890	43	669	1.295	ug/l #	48
29) Tetrahydrofuran	7.268	42	375	1.176	ug/l #	72
31) Cyclohexane	7.713	56	3972	1.239	ug/l #	8
38) Carbon Tetrachloride	7.707	117	16386	4.898	ug/l #	15
49) 1,4-Dioxane	9.359	88	36	3.232	ug/l #	23
59) 2-Hexanone	10.768	43	1072	1.259	ug/l	94
76) 1,2,3-Trichloropropane	12.414	75	50250	59.404	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.414	75	50250	135.044	ug/l #	9
91) 1,2-Dichlorobenzene	13.657	146	2800	1.061	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.279	75	266	1.522	ug/l	81
93) 1,2,4-Trichlorobenzene	14.925	180	3481	2.415	ug/l	91
94) Hexachlorobutadiene	15.029	225	1342	1.485	ug/l	96
95) Naphthalene	15.151	128	6900	4.467	ug/l	97
96) 1,2,3-Trichlorobenzene	15.334	180	3727	3.074	ug/l	98

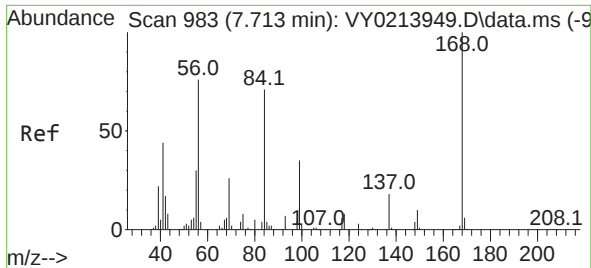
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 05 03:21:56 2025
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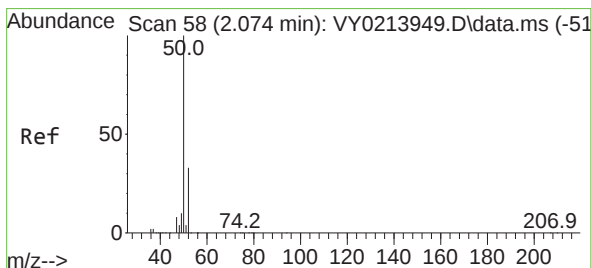
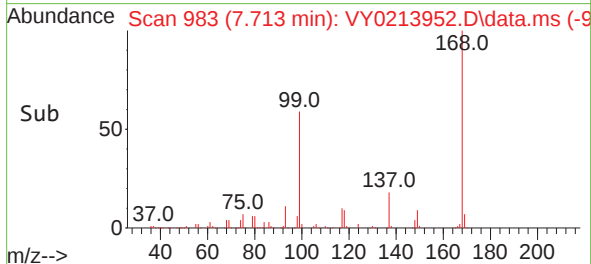
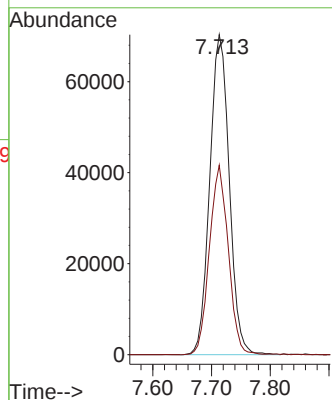
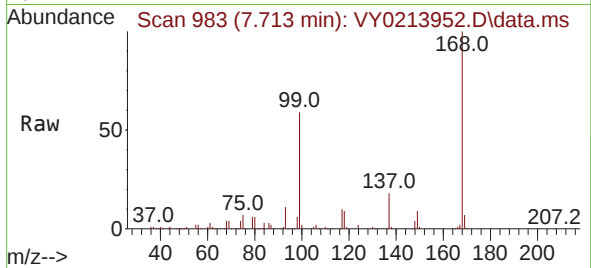




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 99
Delta R.T. 0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

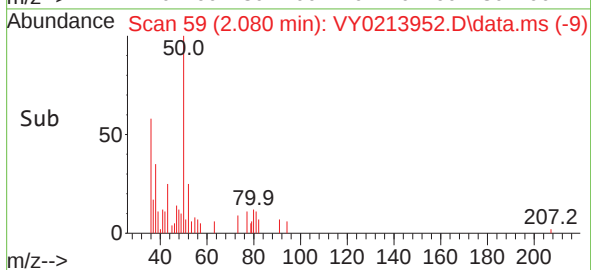
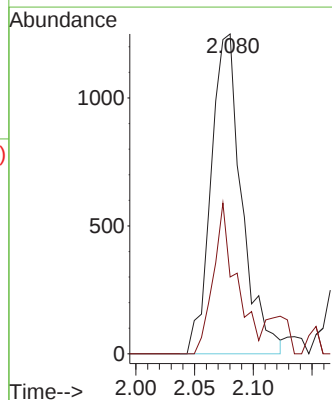
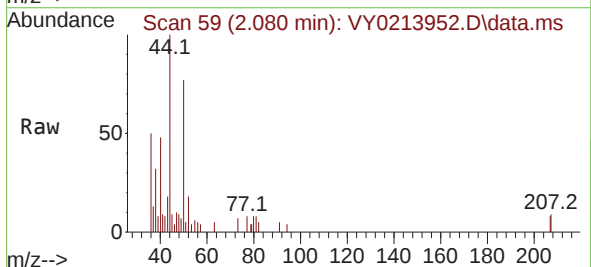
Instrument :
MSVOA_Y
ClientSampleId :

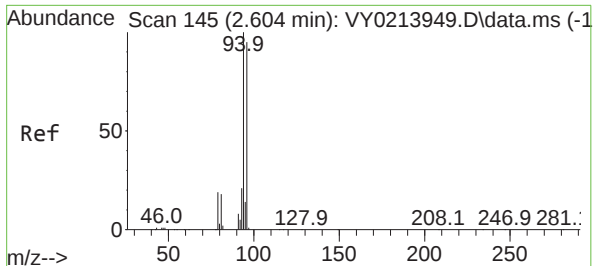
Tgt Ion:168 Resp: 161980
Ion Ratio Lower Upper
168 100
99 59.2 46.0 69.0



#3
Chloromethane
Concen: 1.086 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.006 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Tgt Ion: 50 Resp: 2275
Ion Ratio Lower Upper
50 100
52 24.0 26.2 39.2#

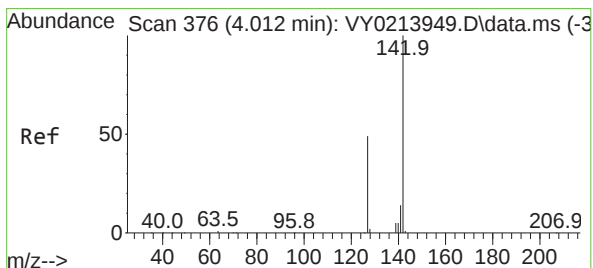
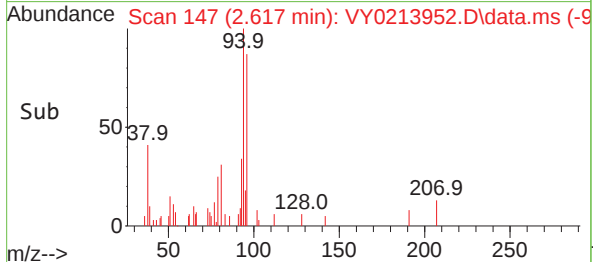
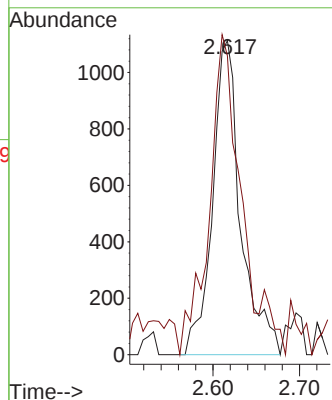
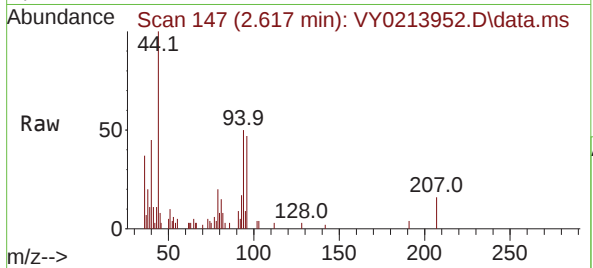




#5
Bromomethane
Concen: 1.516 ug/l
RT: 2.617 min Scan# 145
Delta R.T. 0.012 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

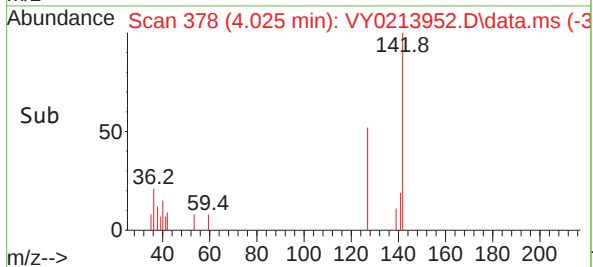
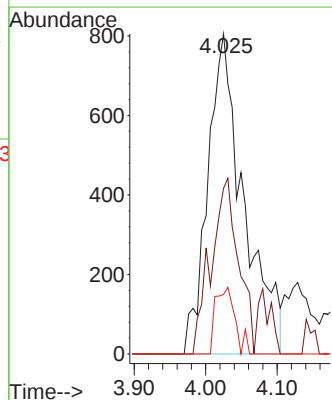
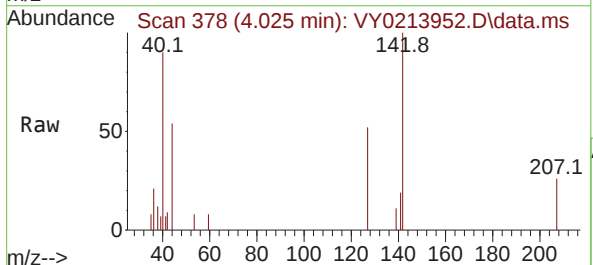
Instrument :
MSVOA_Y
ClientSampleId :

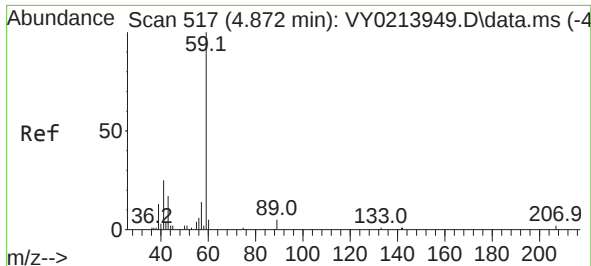
Tgt Ion: 94 Resp: 2509
Ion Ratio Lower Upper
94 100
96 95.1 76.3 114.5



#10
Methyl Iodide
Concen: 1.527 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.012 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

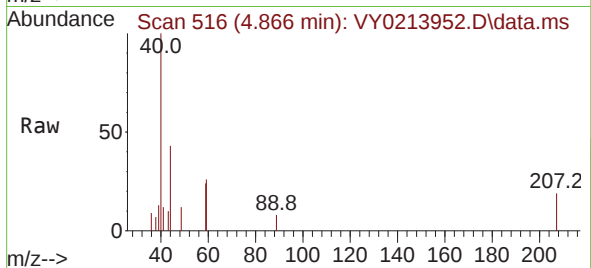
Tgt Ion:142 Resp: 2832
Ion Ratio Lower Upper
142 100
127 41.7 39.1 58.7
141 11.2 11.8 17.6#



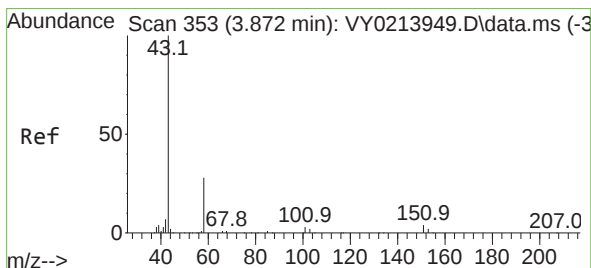
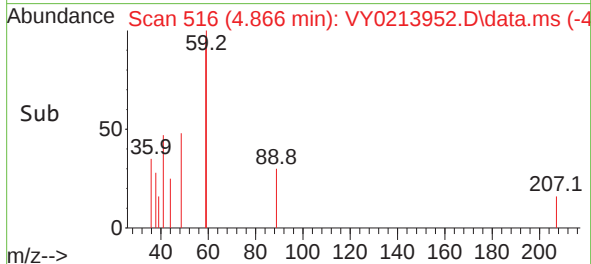
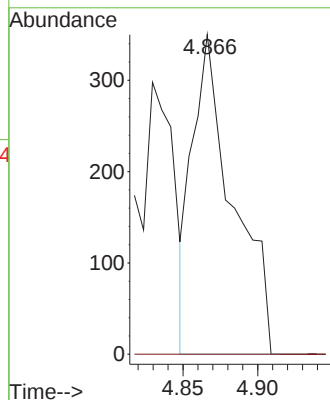


#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.866 min Scan# 517
Delta R.T. -0.006 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Instrument :
MSVOA_Y
ClientSampleId :

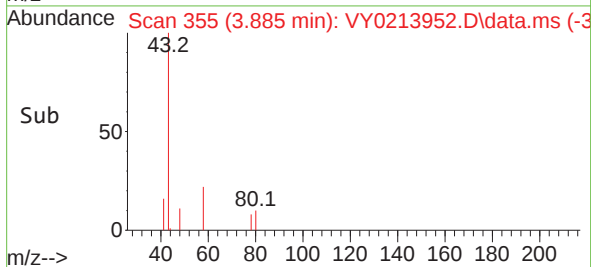
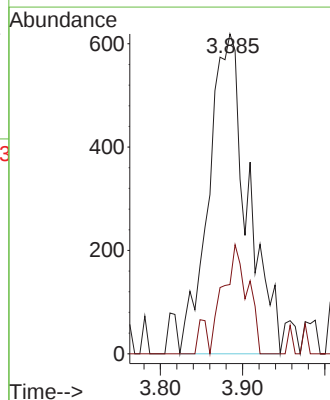
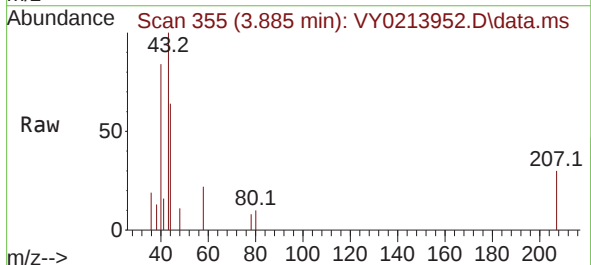


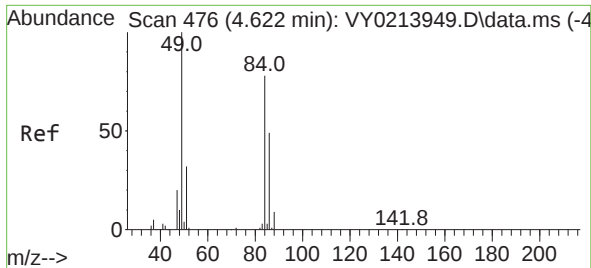
Tgt Ion: 59 Resp: 661
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 5.415 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Tgt Ion: 43 Resp: 2022
Ion Ratio Lower Upper
43 100
58 21.6 22.1 33.1#

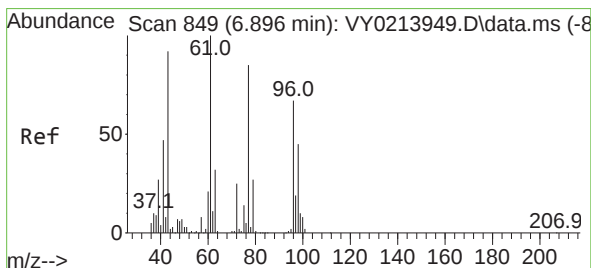
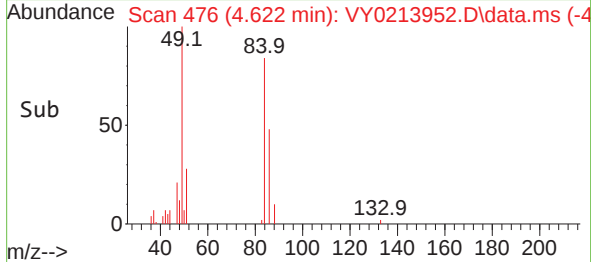
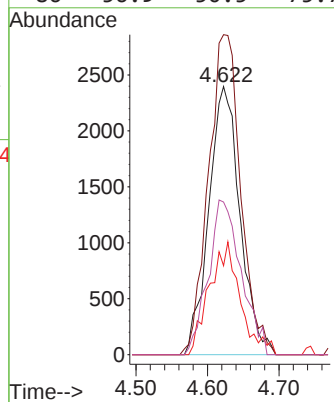
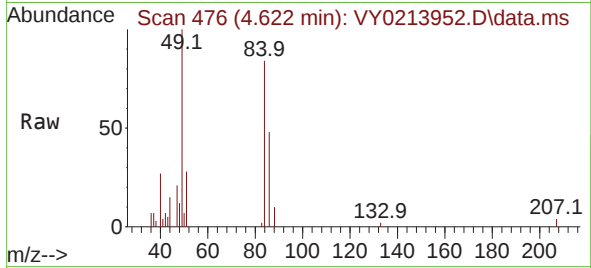




#20
Methylene Chloride
Concen: 3.700 ug/l
RT: 4.622 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

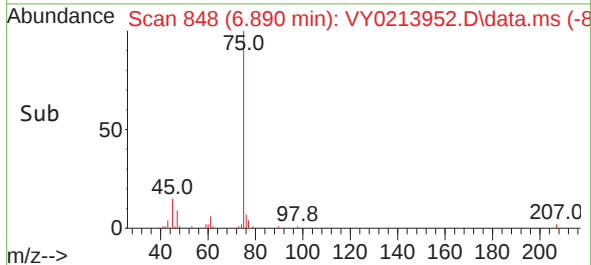
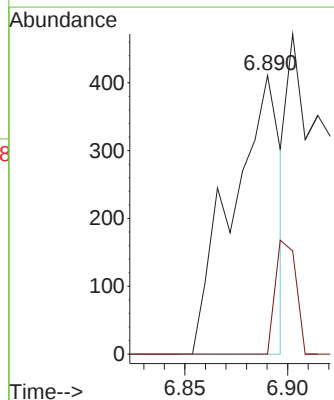
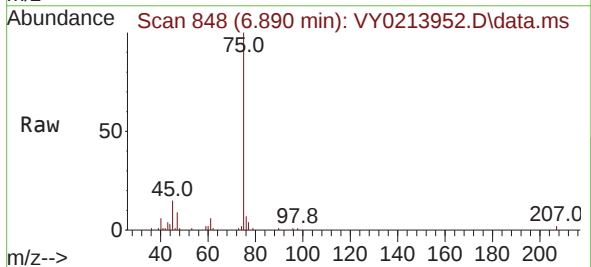
Instrument :
MSVOA_Y
ClientSampleId :

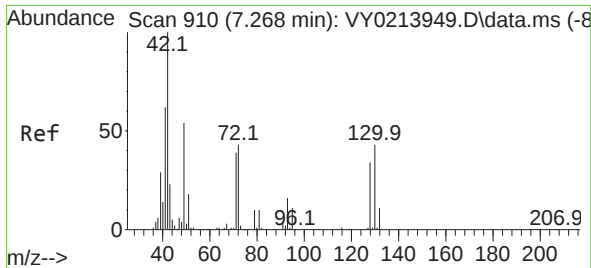
Tgt Ion:	84	Resp:	7252
Ion	Ratio	Lower	Upper
84	100		
49	119.4	102.0	153.0
51	33.2	33.0	49.6
86	56.9	50.5	75.7



#25
2-Butanone
Concen: 1.295 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Tgt Ion:	43	Resp:	669
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.4	32.0#

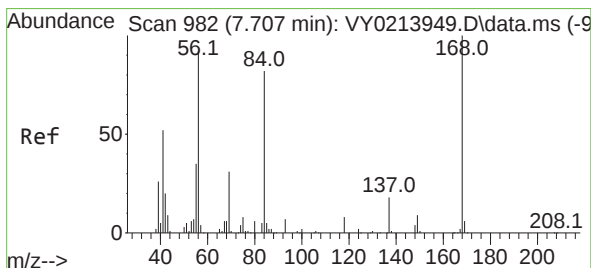
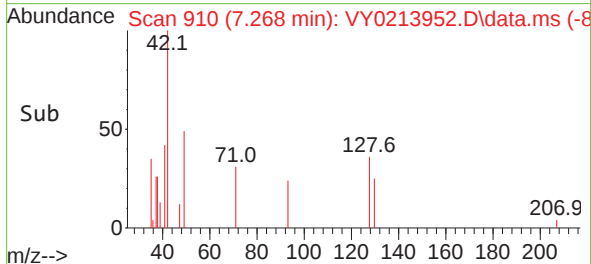
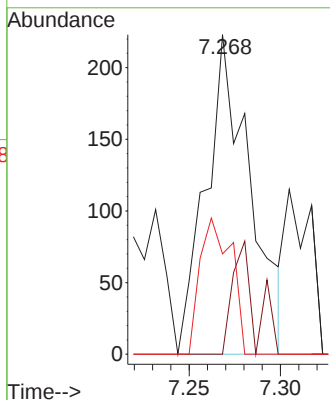
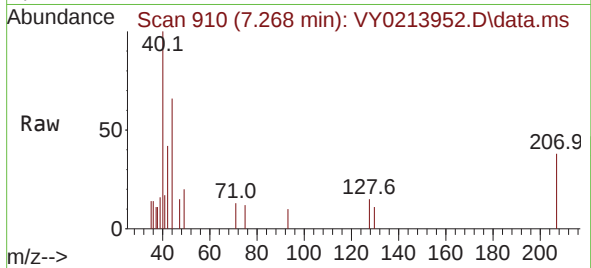




#29
Tetrahydrofuran
Concen: 1.176 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

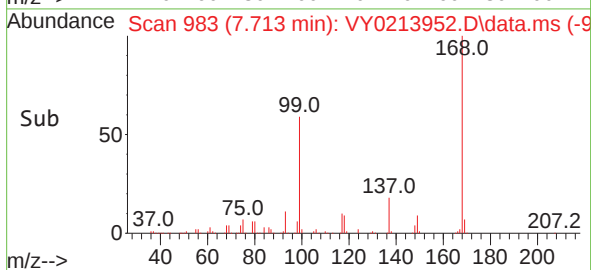
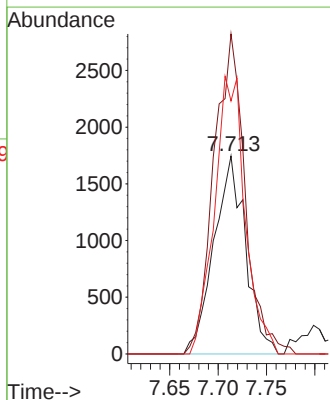
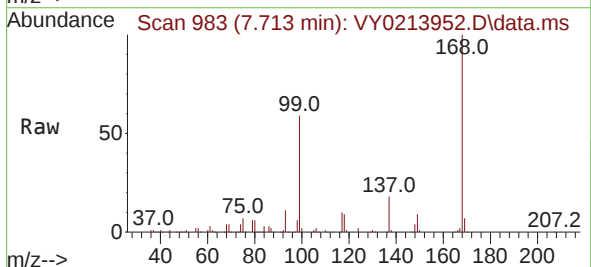
Instrument :
MSVOA_Y
ClientSampleId :

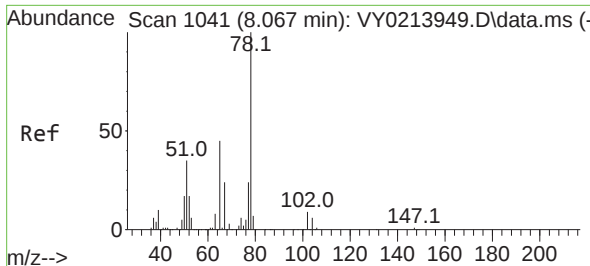
Tgt Ion: 42 Resp: 375
Ion Ratio Lower Upper
42 100
72 18.4 34.8 52.2#
71 30.1 32.6 48.8#



#31
Cyclohexane
Concen: 1.239 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Tgt Ion: 56 Resp: 3972
Ion Ratio Lower Upper
56 100
69 161.7 27.0 40.4#
84 127.9 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 51.596 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VY0213952.D

Acq: 04 Mar 2025 11:52

Instrument :

MSVOA_Y

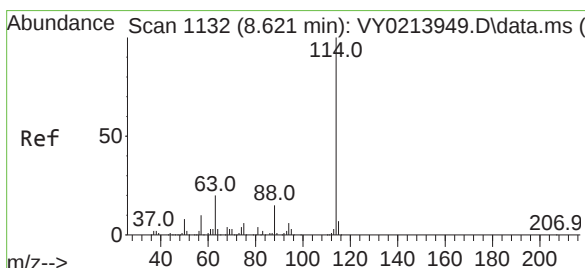
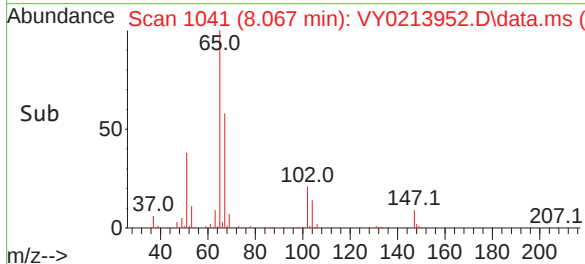
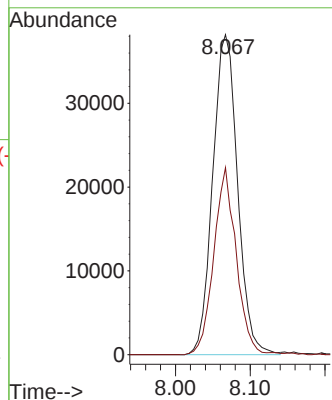
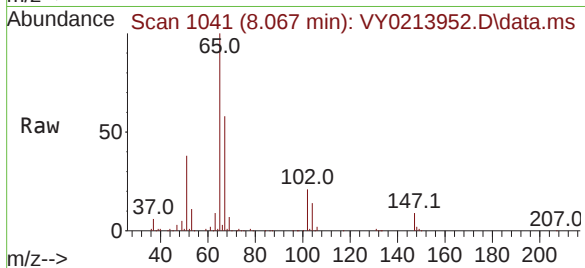
ClientSampleId :

Tgt Ion: 65 Resp: 88334

Ion Ratio Lower Upper

65 100

67 53.0 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY0213952.D

Acq: 04 Mar 2025 11:52

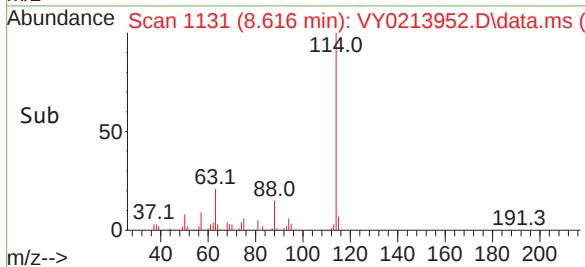
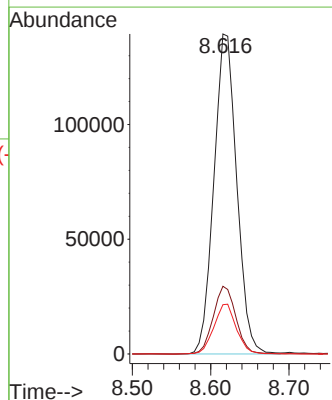
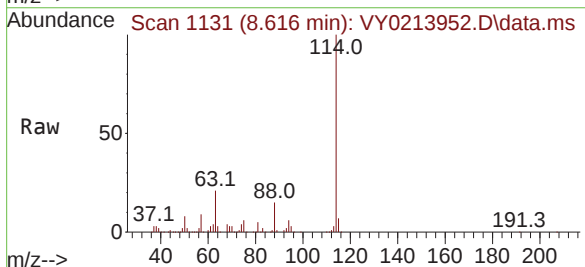
Tgt Ion: 114 Resp: 282720

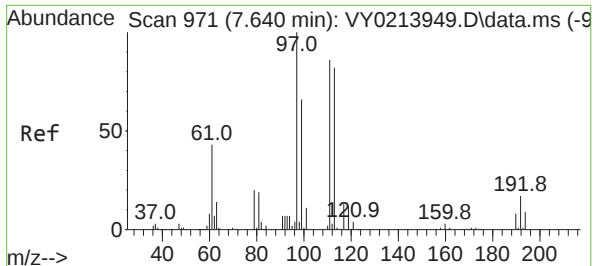
Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.782 ug/l

RT: 7.640 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY0213952.D

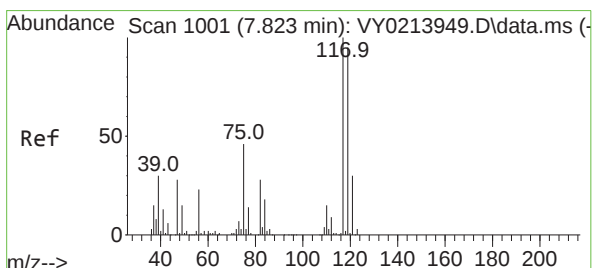
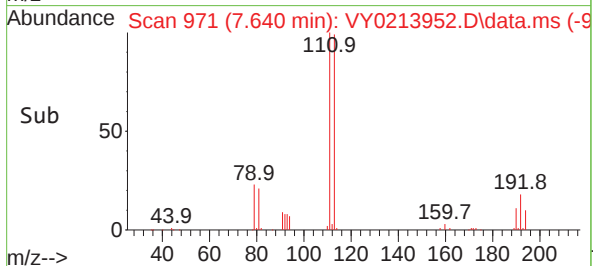
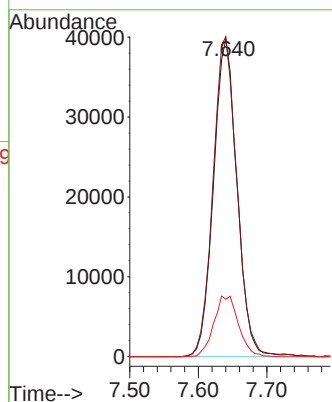
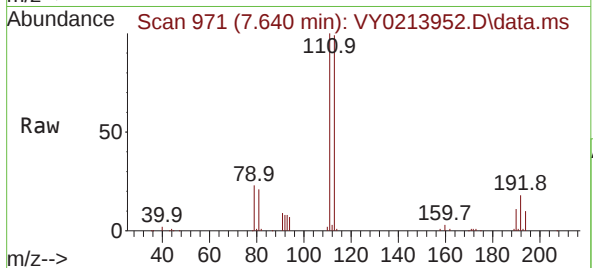
Acq: 04 Mar 2025 11:52

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	113	Resp:	94372
Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.0	123.0
192	20.1	15.9	23.9



#38

Carbon Tetrachloride

Concen: 4.898 ug/l

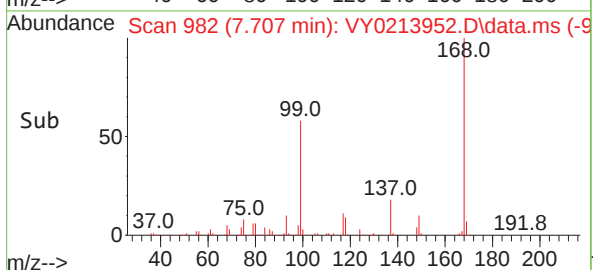
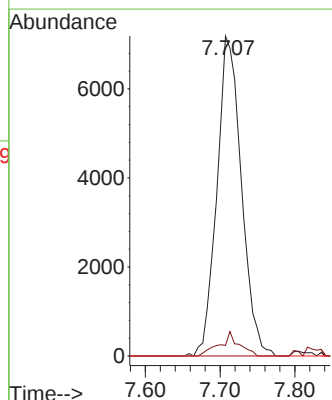
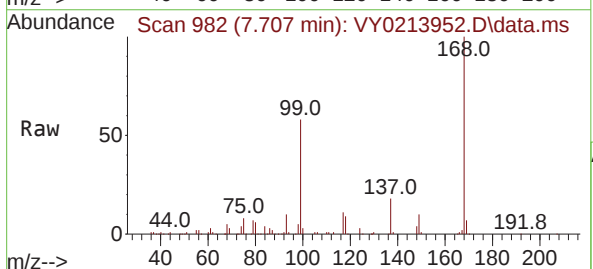
RT: 7.707 min Scan# 982

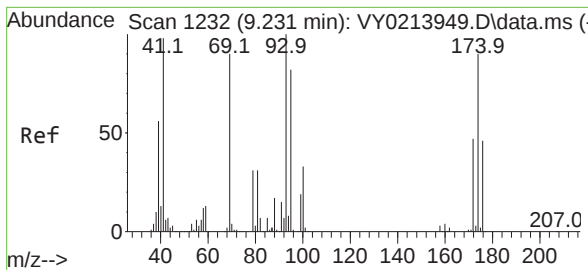
Delta R.T. -0.116 min

Lab File: VY0213952.D

Acq: 04 Mar 2025 11:52

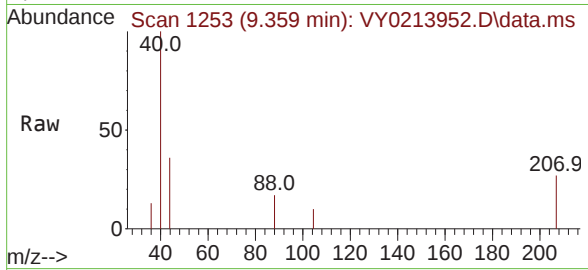
Tgt Ion:	117	Resp:	16386
Ion	Ratio	Lower	Upper
117	100		
119	3.3	75.8	113.8#
121	0.0	23.9	35.9#



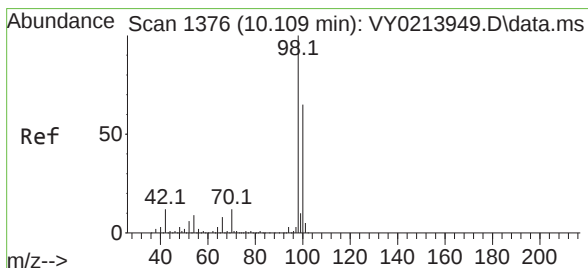
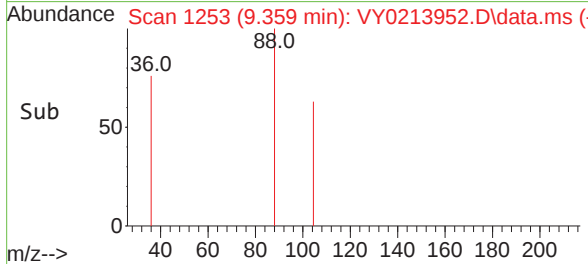
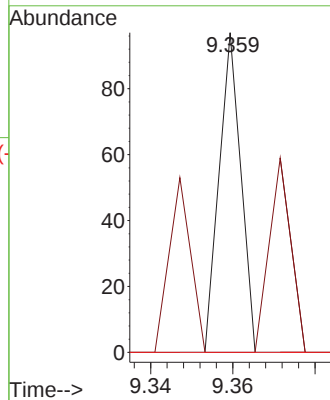


#49
1,4-Dioxane
Concen: 3.232 ug/l
RT: 9.359 min Scan# 11
Delta R.T. 0.128 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Instrument :
MSVOA_Y
ClientSampleId :

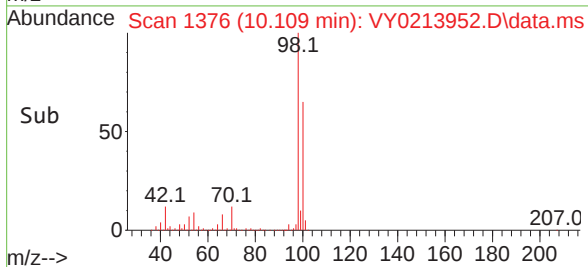
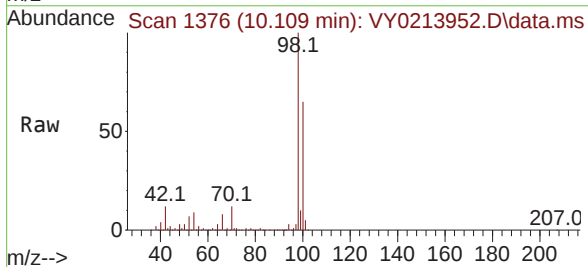
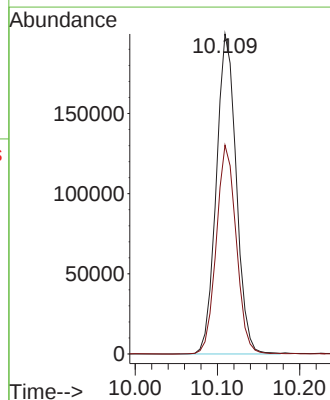


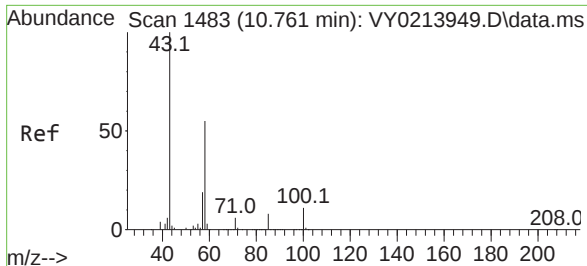
Tgt Ion: 88 Resp: 36
Ion Ratio Lower Upper
88 100
43 61.1 25.0 37.4#
58 0.0 58.4 87.6#



#50
Toluene-d8
Concen: 47.865 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Tgt Ion: 98 Resp: 336795
Ion Ratio Lower Upper
98 100
100 65.1 52.1 78.1

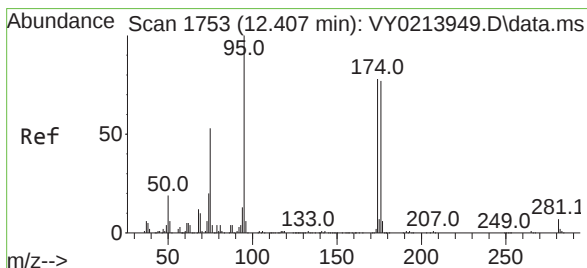
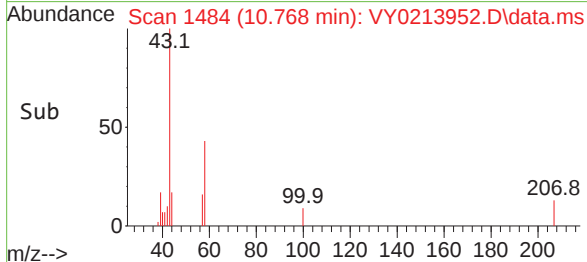
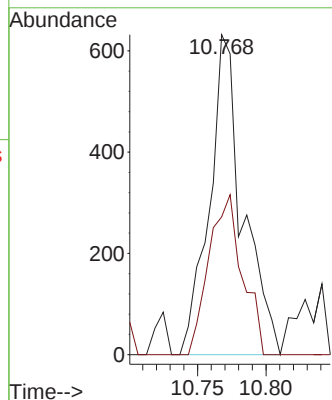
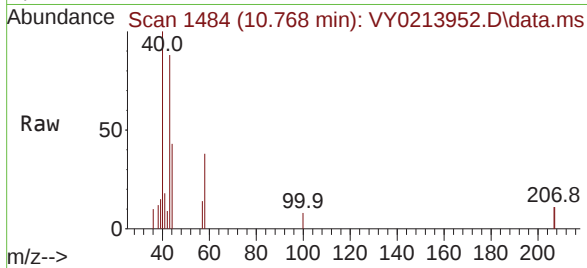




#59
2-Hexanone
Concen: 1.259 ug/l
RT: 10.768 min Scan# 1483
Delta R.T. 0.006 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

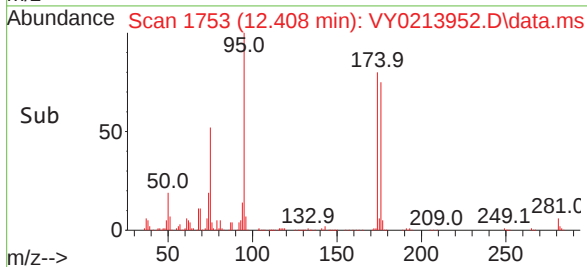
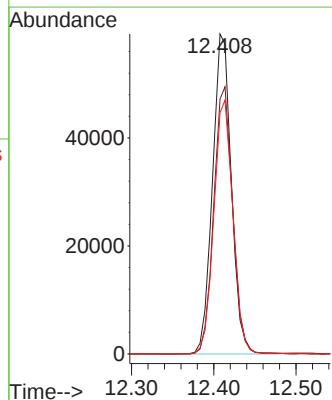
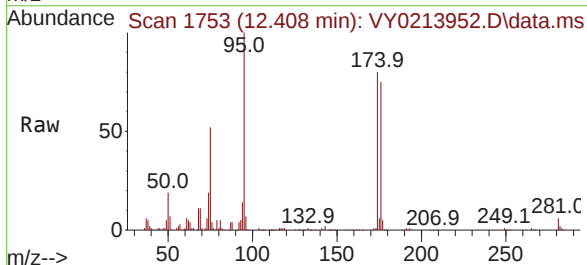
Instrument :
MSVOA_Y
ClientSampleId :

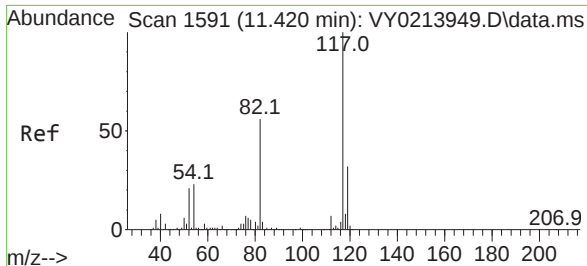
Tgt Ion: 43 Resp: 1072
Ion Ratio Lower Upper
43 100
58 50.0 27.3 81.8



#62
4-Bromofluorobenzene
Concen: 39.347 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Tgt Ion: 95 Resp: 94177
Ion Ratio Lower Upper
95 100
174 84.1 0.0 165.0
176 80.7 0.0 160.0

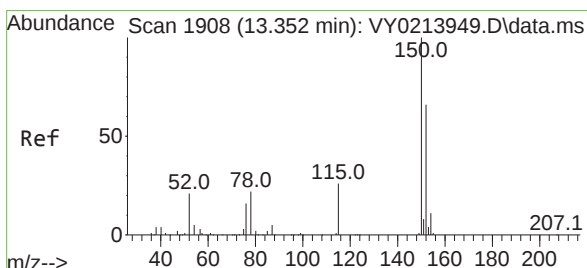
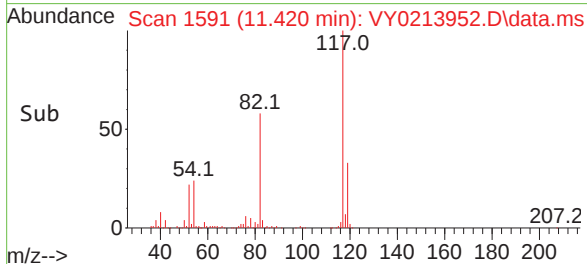
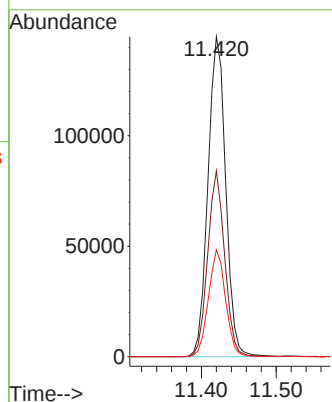
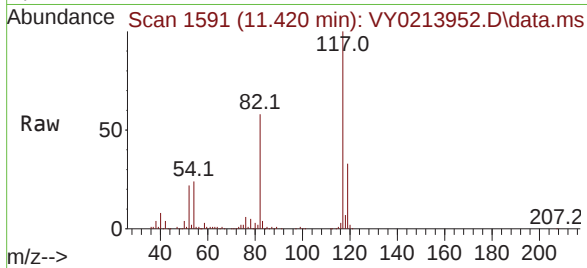




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

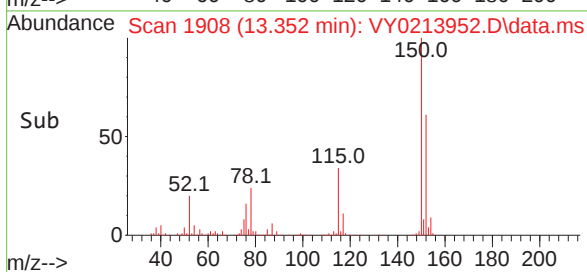
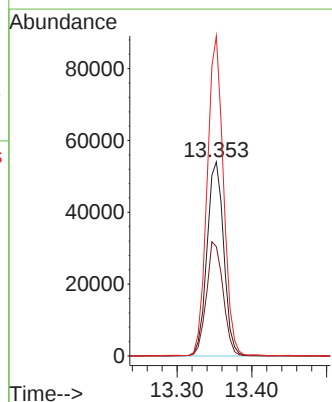
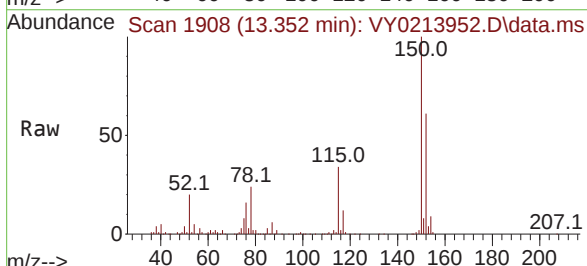
Instrument :
MSVOA_Y
ClientSampleId :

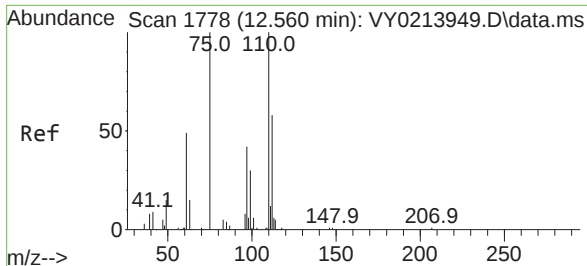
Tgt Ion:117 Resp: 238175
Ion Ratio Lower Upper
117 100
82 58.0 44.6 67.0
119 33.4 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

Tgt Ion:152 Resp: 83945
Ion Ratio Lower Upper
152 100
115 58.9 29.0 87.0
150 160.1 0.0 347.2

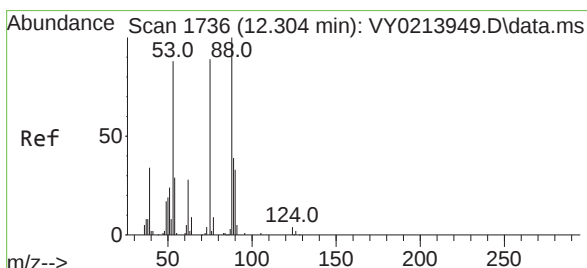
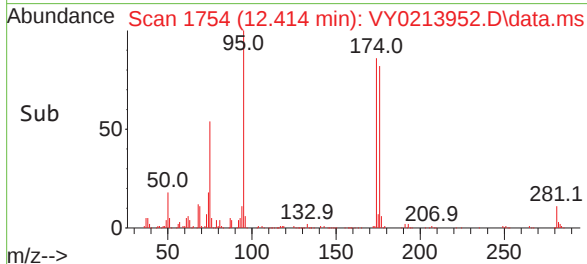
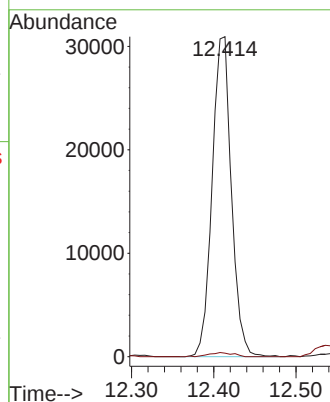
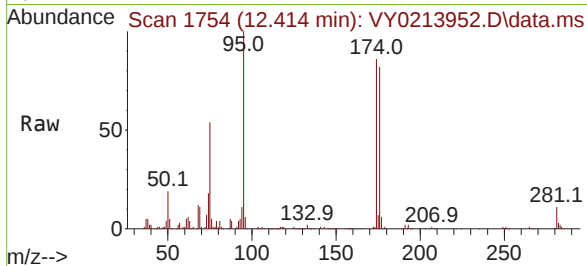




#76
1,2,3-Trichloropropane
Concen: 59.404 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.146 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

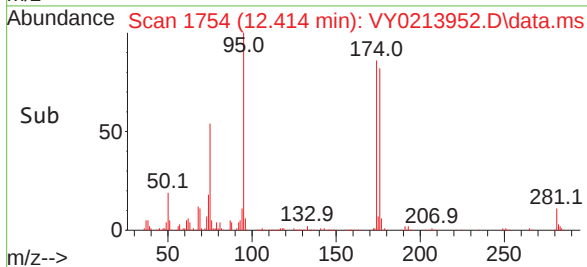
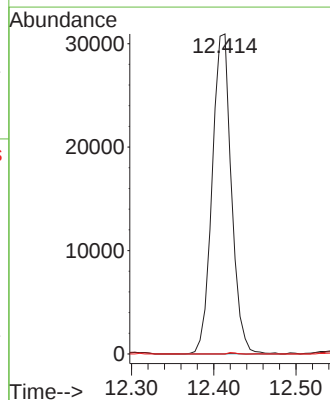
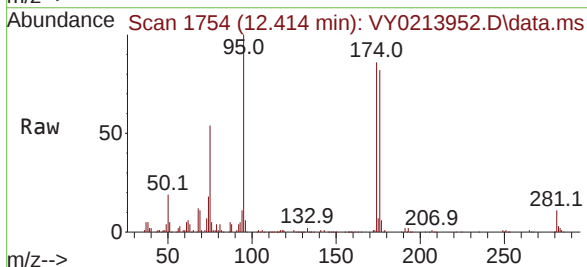
Instrument :
MSVOA_Y
ClientSampleId :

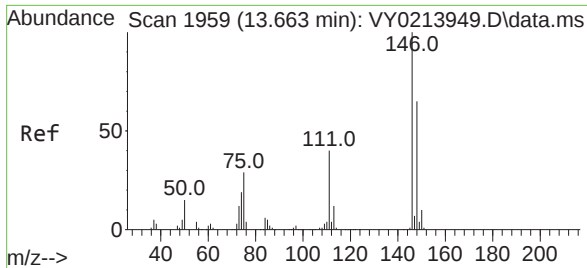
Tgt Ion: 75 Resp: 50250
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 135.044 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.110 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

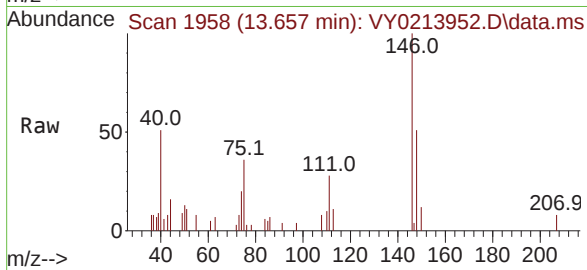
Tgt Ion: 75 Resp: 50250
Ion Ratio Lower Upper
75 100
53 0.1 81.0 121.4#
89 0.2 36.9 55.3#



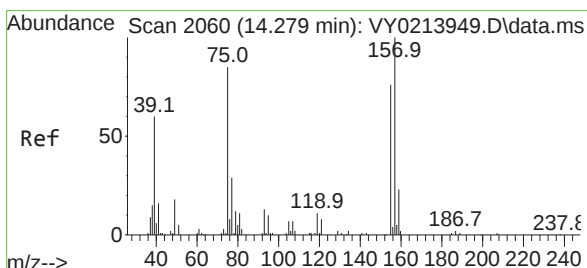
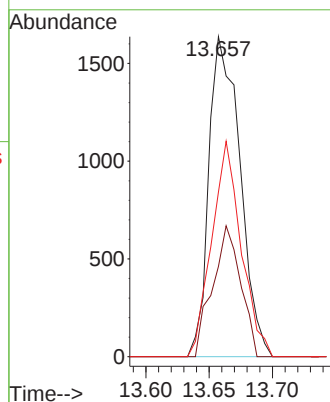
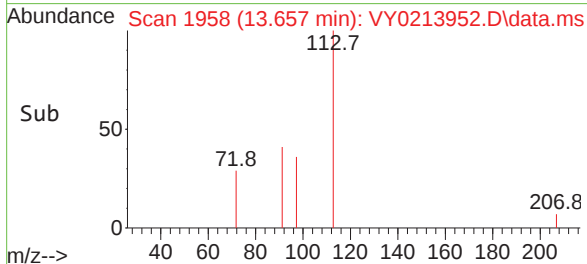


#91
 1,2-Dichlorobenzene
 Concen: 1.061 ug/l
 RT: 13.657 min Scan# 1958
 Delta R.T. -0.006 min
 Lab File: VY0213952.D
 Acq: 04 Mar 2025 11:52

Instrument :
 MSVOA_Y
 ClientSampleId :

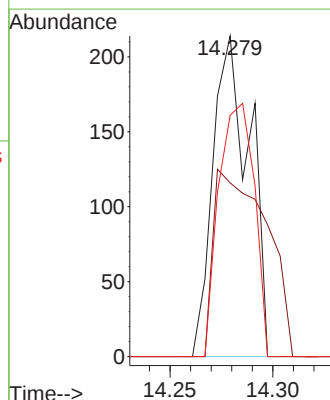
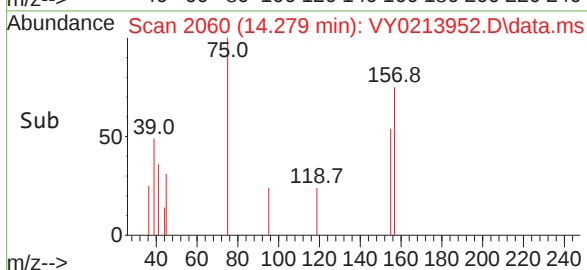
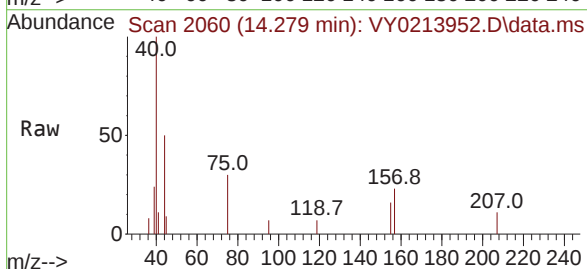


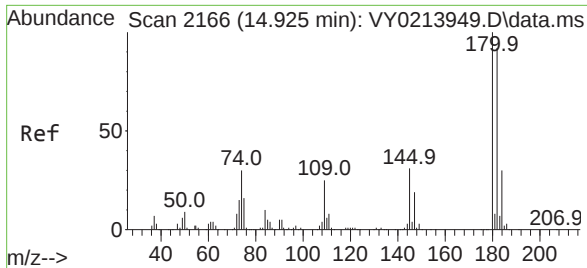
Tgt Ion:	146	Resp:	2800
Ion	Ratio	Lower	Upper
146	100		
111	36.8	20.7	62.1
148	63.7	32.1	96.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.522 ug/l
 RT: 14.279 min Scan# 2060
 Delta R.T. 0.000 min
 Lab File: VY0213952.D
 Acq: 04 Mar 2025 11:52

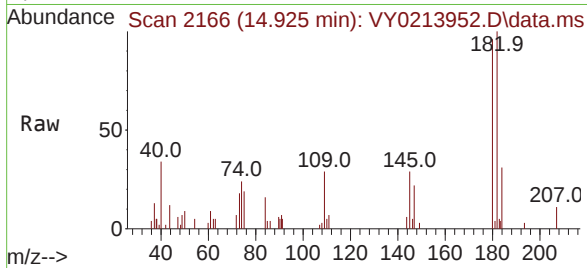
Tgt Ion:	75	Resp:	266
Ion	Ratio	Lower	Upper
75	100		
155	83.8	43.5	130.5
157	76.3	54.4	163.2



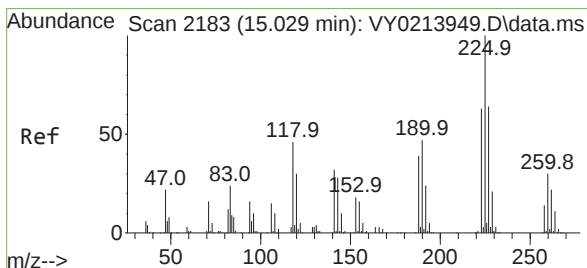
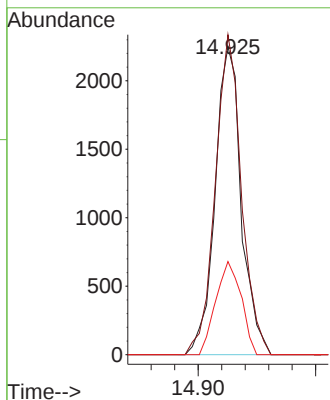
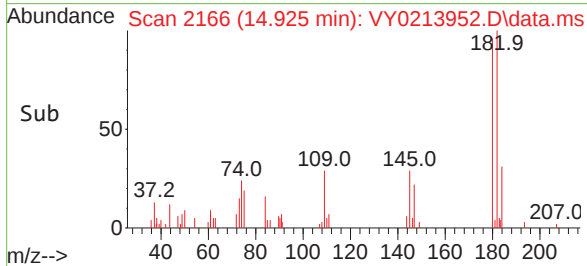


#93
 1,2,4-Trichlorobenzene
 Concen: 2.415 ug/l
 RT: 14.925 min Scan# 2166
 Delta R.T. 0.000 min
 Lab File: VY0213952.D
 Acq: 04 Mar 2025 11:52

Instrument :
 MSVOA_Y
 ClientSampleId :

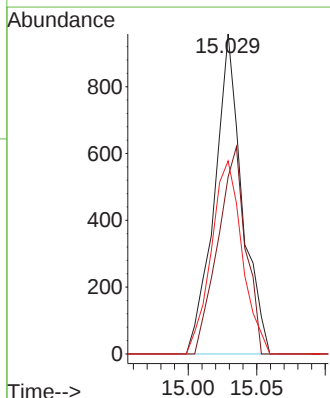
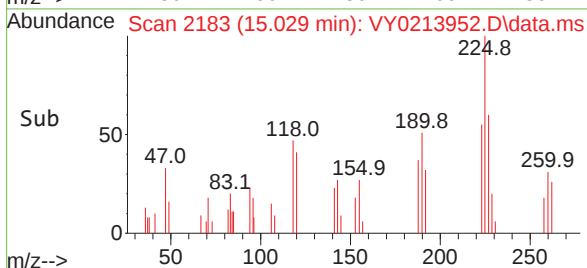
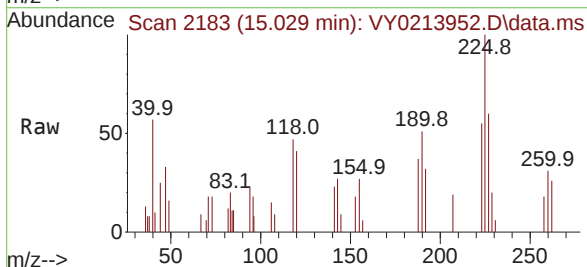


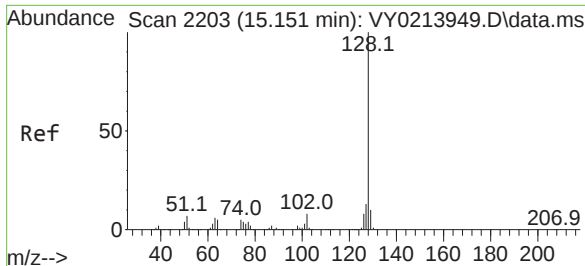
Tgt Ion:180 Resp: 3481
 Ion Ratio Lower Upper
 180 100
 182 103.8 46.7 140.0
 145 29.3 15.6 46.8



#94
 Hexachlorobutadiene
 Concen: 1.485 ug/l
 RT: 15.029 min Scan# 2183
 Delta R.T. 0.000 min
 Lab File: VY0213952.D
 Acq: 04 Mar 2025 11:52

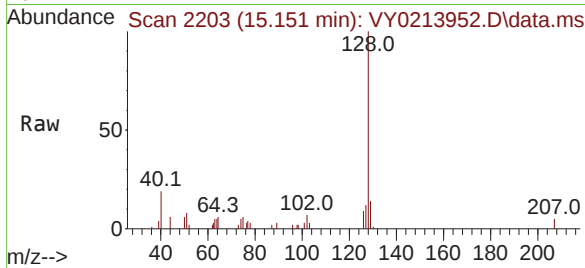
Tgt Ion:225 Resp: 1342
 Ion Ratio Lower Upper
 225 100
 223 65.4 31.4 94.2
 227 67.7 31.8 95.4



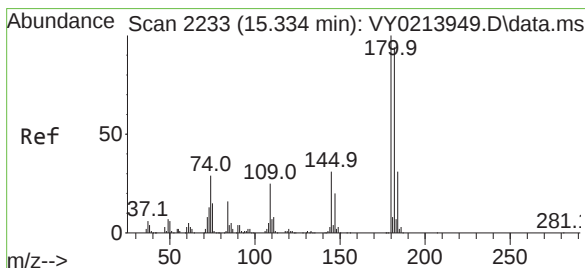
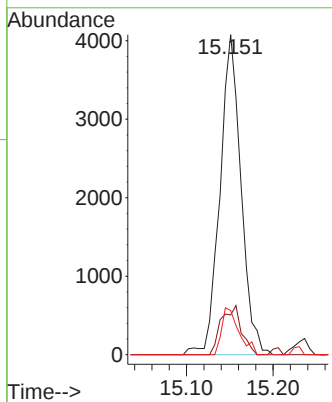
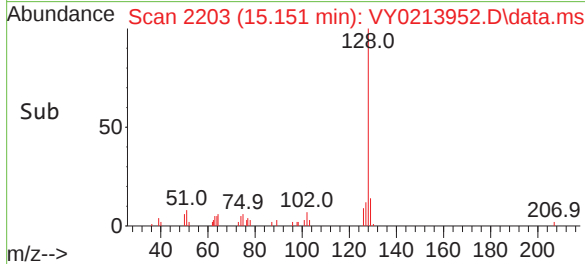


#95
Naphthalene
Concen: 4.467 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. -0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52

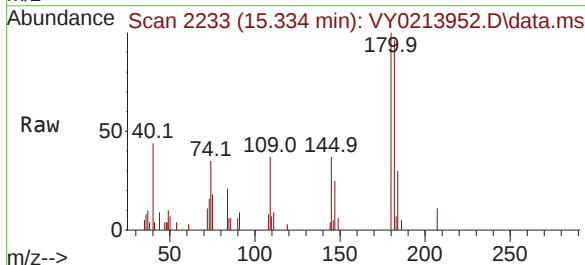
Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128	Resp:	6900
Ion	Ratio	Lower Upper
128	100	
127	14.7	10.6 15.8
129	12.0	8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 3.074 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY0213952.D
Acq: 04 Mar 2025 11:52



Tgt Ion:180	Resp:	3727
Ion	Ratio	Lower Upper
180	100	
182	92.5	47.2 141.6
145	33.6	16.4 49.1

