

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY053123\
 Data File : VY013938.D
 Acq On : 31 May 2023 16:12
 Operator : KP/MD
 Sample : 02955-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB27

Quant Time: May 31 17:33:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052323S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 24 05:25:47 2023
 Response via : Initial Calibration

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

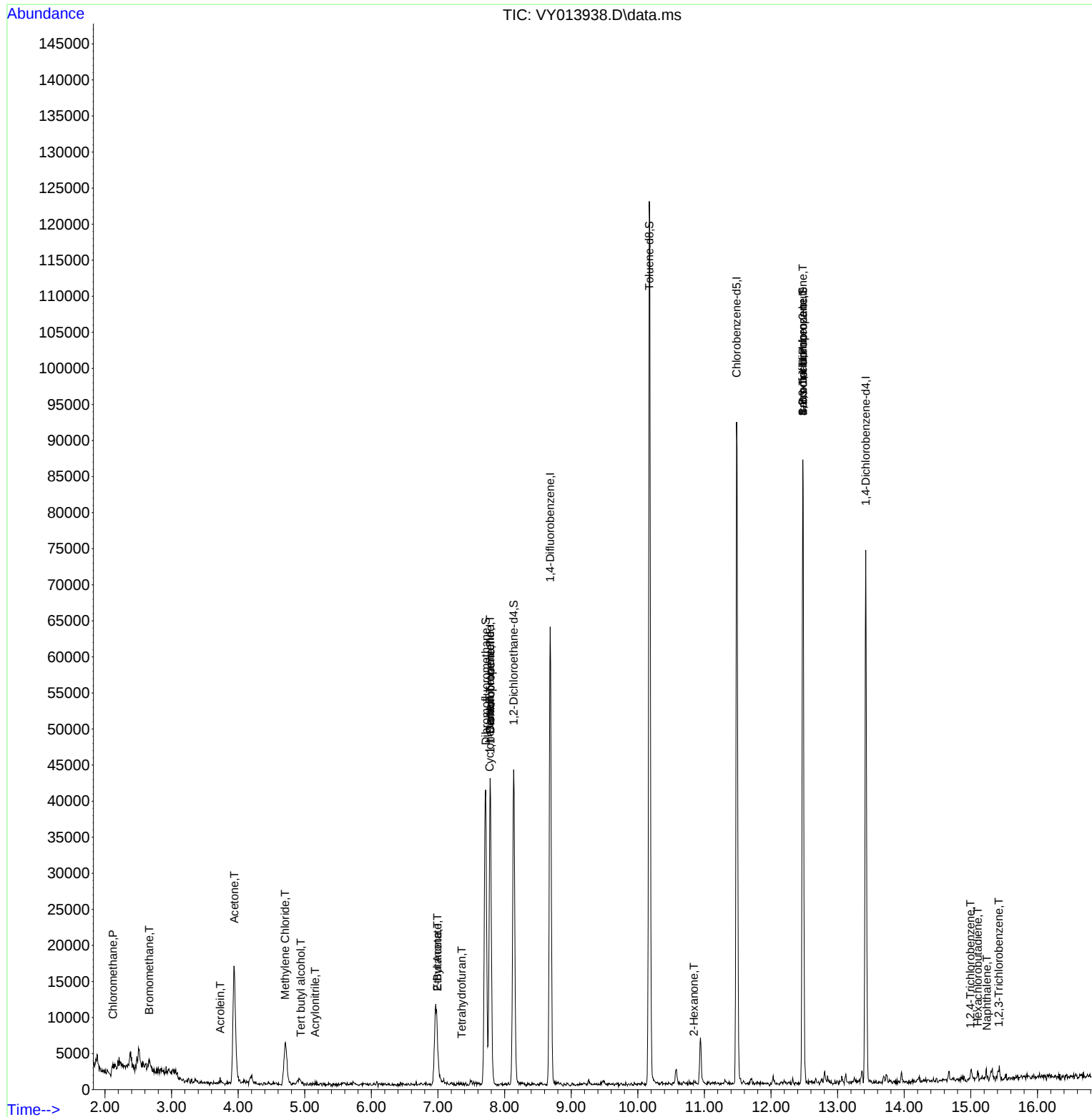
Internal Standards						
1) Pentafluorobenzene	7.783	168	31558	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.685	114	53527	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.483	117	49711	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	19602	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	35428	97.038	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	194.080%#
35) Dibromofluoromethane	7.716	113	29037	84.000	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	168.000%#
50) Toluene-d8	10.173	98	82815	63.034	ug/l	-0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	=	126.060%
62) 4-Bromofluorobenzene	12.477	95	24085	55.150	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.300%
Target Compounds						
						Qvalue
3) Chloromethane	2.119	50	504	1.431	ug/l	99
5) Bromomethane	2.662	94	364	1.272	ug/l #	31
11) Tert butyl alcohol	4.942	59	463	16.554	ug/l #	73
13) Acrolein	3.729	56	409	9.722	ug/l	90
15) Acrylonitrile	5.155	53	175	1.836	ug/l #	41
16) Acetone	3.942	43	30185	278.562	ug/l	99
20) Methylene Chloride	4.704	84	4150	8.704	ug/l #	91
25) 2-Butanone	6.990	43	5178	39.161	ug/l	92
29) Tetrahydrofuran	7.356	42	98	1.241	ug/l #	54
31) Cyclohexane	7.777	56	809	1.442	ug/l #	49
36) 1,1-Dichloropropene	7.789	75	2546	4.836	ug/l #	50
37) Ethyl Acetate	6.990	43	5178	16.122	ug/l #	78
38) Carbon Tetrachloride	7.783	117	2892	4.830	ug/l #	13
59) 2-Hexanone	10.843	43	248	1.118	ug/l #	64
71) Bromoform	12.477	173	294	1.119	ug/l #	1
76) 1,2,3-Trichloropropane	12.477	75	12790	55.336	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	12790	120.117	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.995	180	480	1.260	ug/l #	12
94) Hexachlorobutadiene	15.105	225	256	1.066	ug/l	74
95) Naphthalene	15.239	128	1203	5.856	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.422	180	553	1.632	ug/l	93

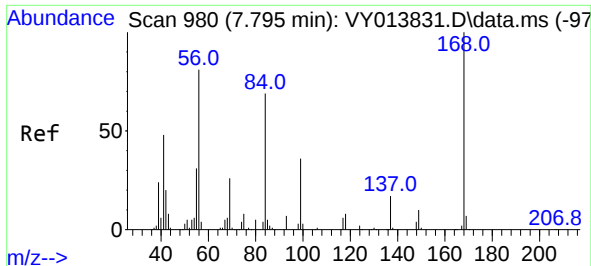
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052323S.M
Quant Title : SW846 8260
QLast Update : Wed May 24 05:25:47 2023
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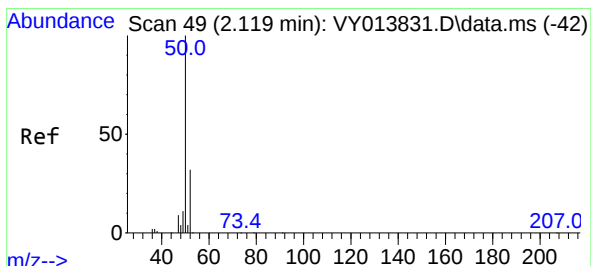
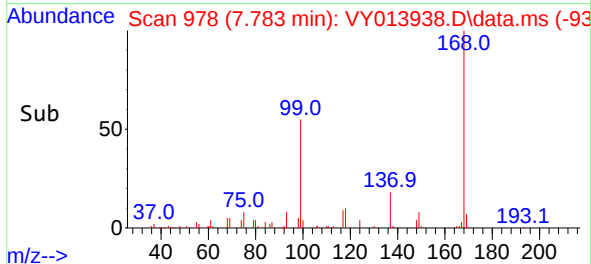
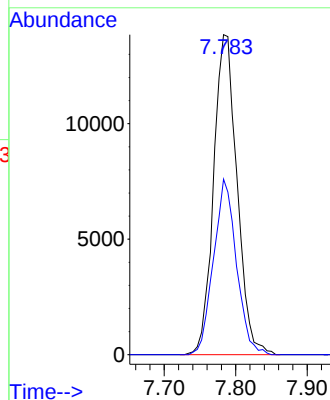
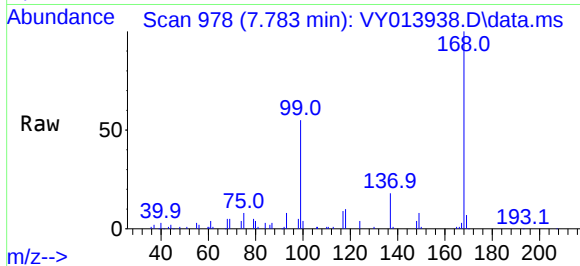




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

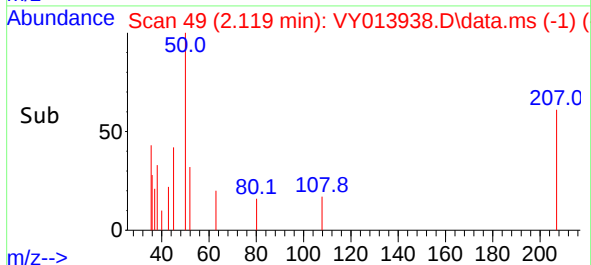
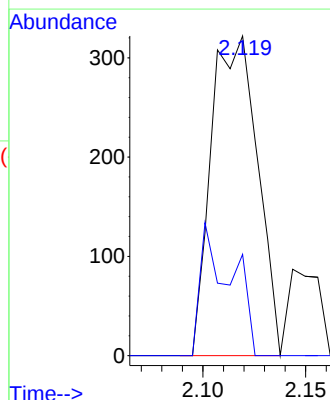
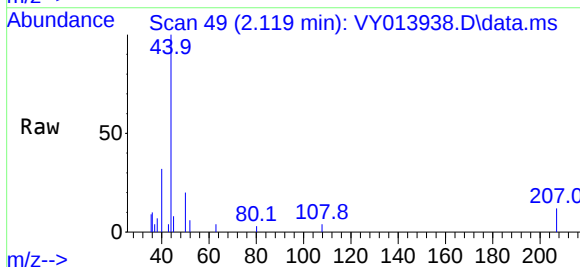
Instrument :
MSVOA_Y
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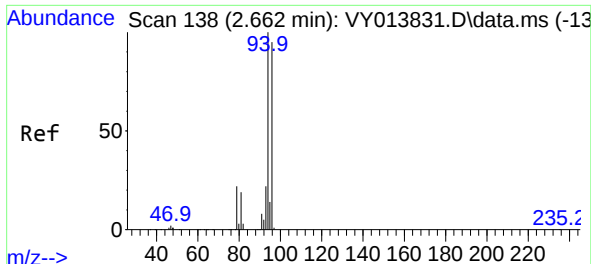
Tgt Ion:168 Resp: 31558
Ion Ratio Lower Upper
168 100
99 54.9 43.4 65.2



#3
Chloromethane
Concen: 1.431 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.000 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

Tgt Ion: 50 Resp: 504
Ion Ratio Lower Upper
50 100
52 31.7 25.7 38.5

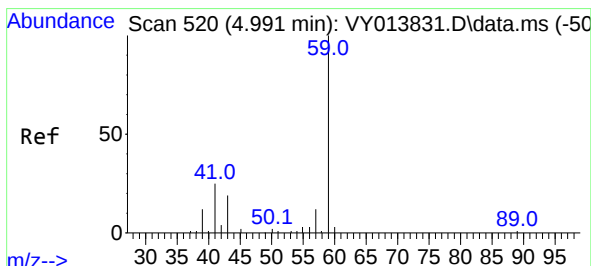
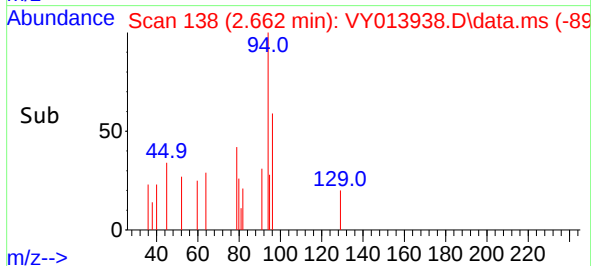
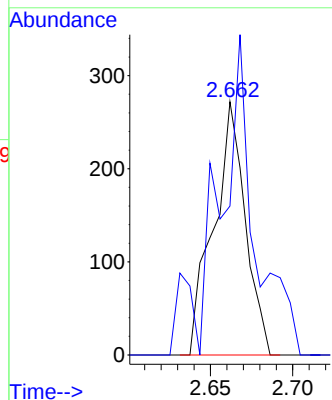
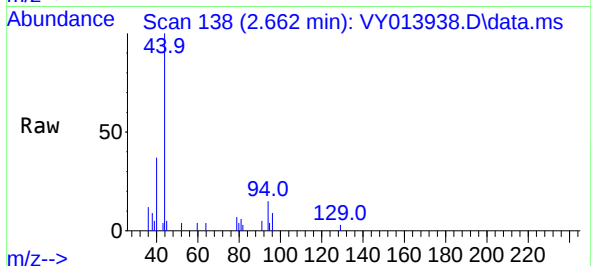




#5
Bromomethane
Concen: 1.272 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

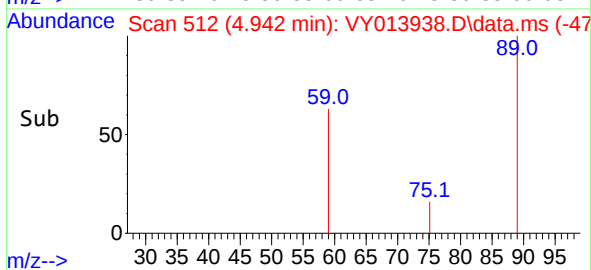
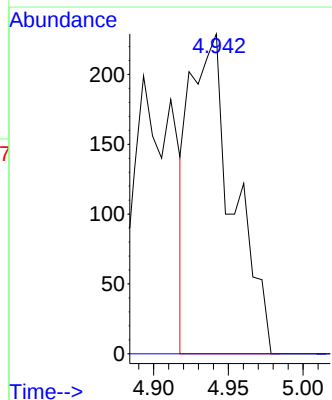
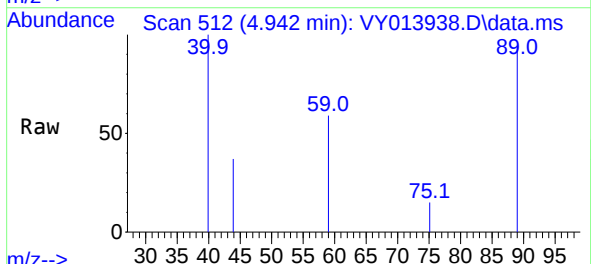
Instrument :
MSVOA_Y
ClientSampleId :
SB27

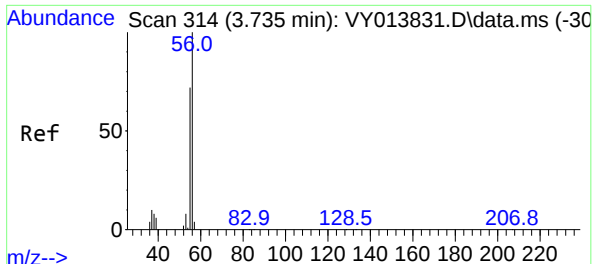
Tgt Ion: 94 Resp: 364
Ion Ratio Lower Upper
94 100
96 28.3 76.2 114.2#



#11
Tert butyl alcohol
Concen: 16.554 ug/l
RT: 4.942 min Scan# 512
Delta R.T. -0.049 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

Tgt Ion: 59 Resp: 463
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

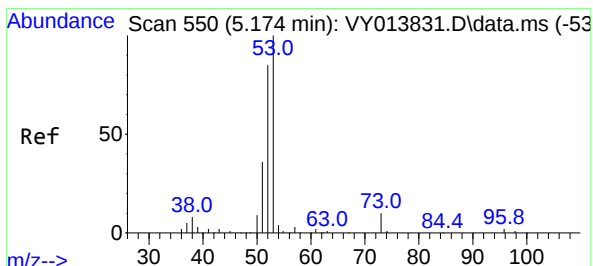
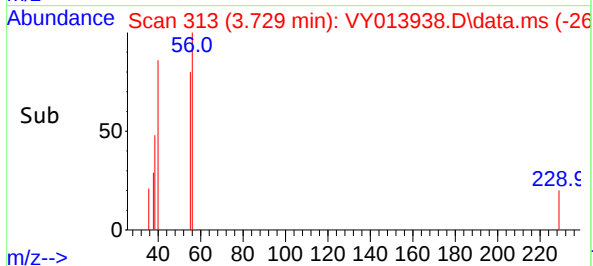
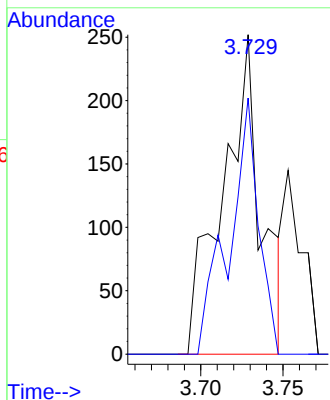
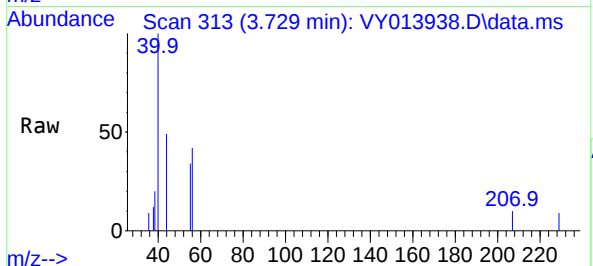




#13
Acrolein
Concen: 9.722 ug/l
RT: 3.729 min Scan# 314
Delta R.T. -0.006 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

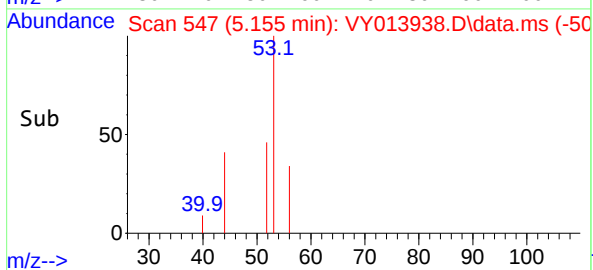
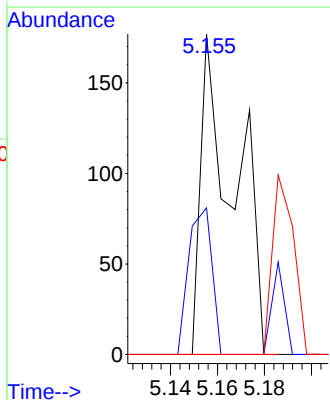
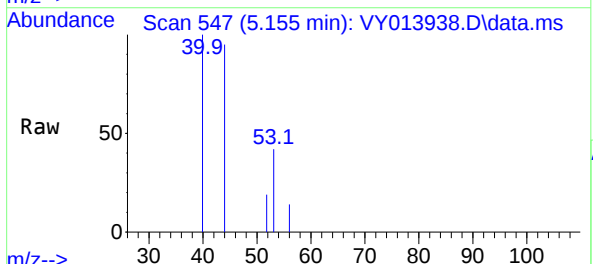
Instrument :
MSVOA_Y
ClientSampleId :
SB27

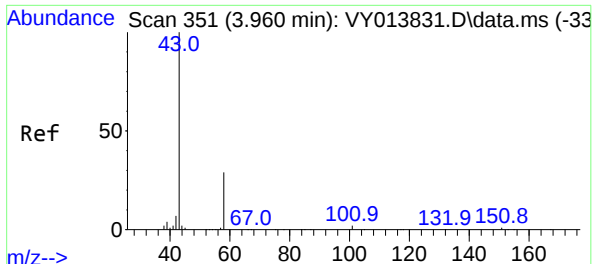
Tgt Ion: 56 Resp: 409
Ion Ratio Lower Upper
56 100
55 61.9 56.2 84.2



#15
Acrylonitrile
Concen: 1.836 ug/l
RT: 5.155 min Scan# 547
Delta R.T. -0.018 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

Tgt Ion: 53 Resp: 175
Ion Ratio Lower Upper
53 100
52 32.0 67.2 100.8#
51 0.0 30.2 45.2#

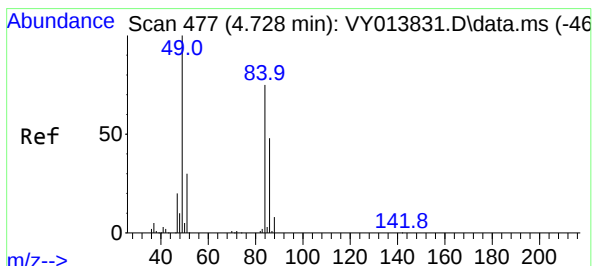
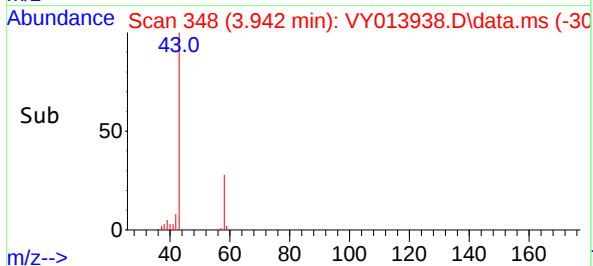
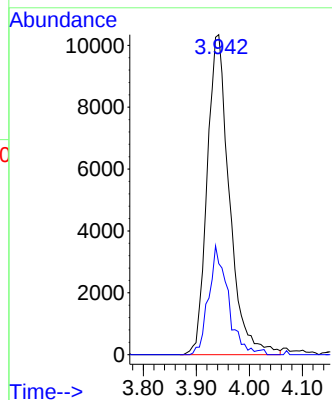
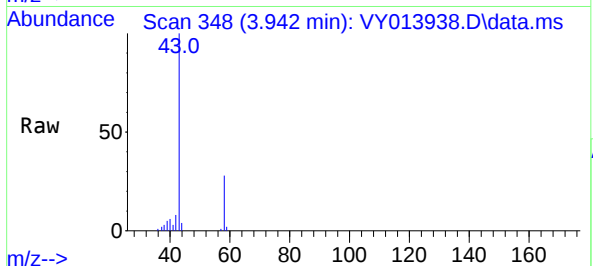




#16
Acetone
Concen: 278.562 ug/l
RT: 3.942 min Scan# 34
Delta R.T. -0.018 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

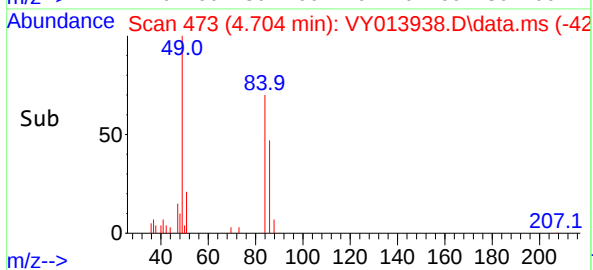
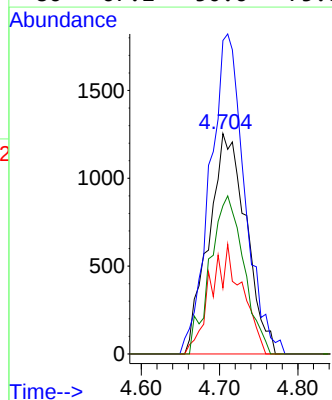
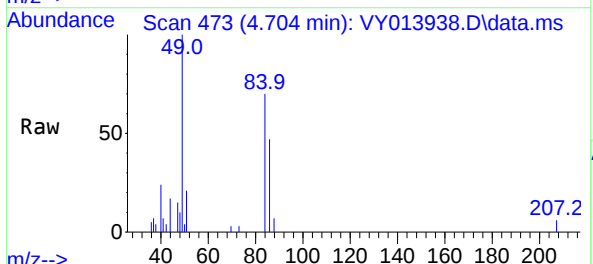
Instrument :
MSVOA_Y
ClientSampleId :
SB27

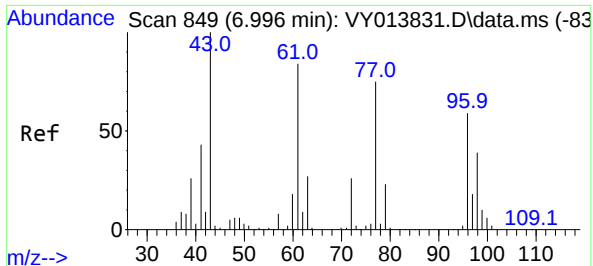
Tgt Ion: 43 Resp: 30185
Ion Ratio Lower Upper
43 100
58 28.5 23.3 34.9



#20
Methylene Chloride
Concen: 8.704 ug/l
RT: 4.704 min Scan# 473
Delta R.T. -0.024 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

Tgt Ion: 84 Resp: 4150
Ion Ratio Lower Upper
84 100
49 142.3 106.2 159.2
51 30.0 31.4 47.0#
86 67.2 50.6 75.8





#25

2-Butanone

Concen: 39.161 ug/l

RT: 6.990 min Scan# 849

Delta R.T. -0.006 min

Lab File: VY013938.D

Acq: 31 May 2023 16:12

Instrument :

MSVOA_Y

ClientSampleId :

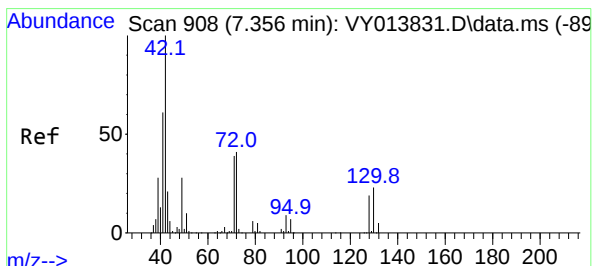
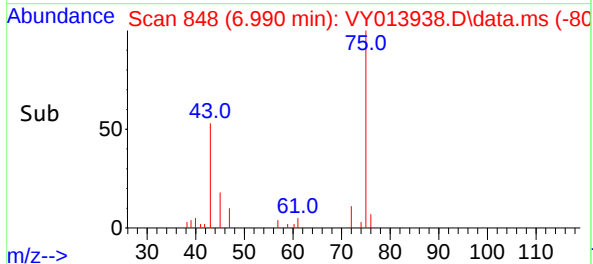
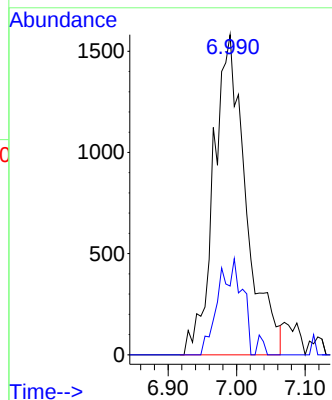
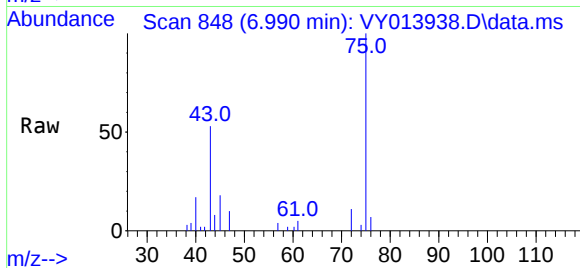
SB27

Tgt Ion: 43 Resp: 5178

Ion Ratio Lower Upper

43 100

72 21.5 20.5 30.7



#29

Tetrahydrofuran

Concen: 1.241 ug/l

RT: 7.356 min Scan# 908

Delta R.T. 0.000 min

Lab File: VY013938.D

Acq: 31 May 2023 16:12

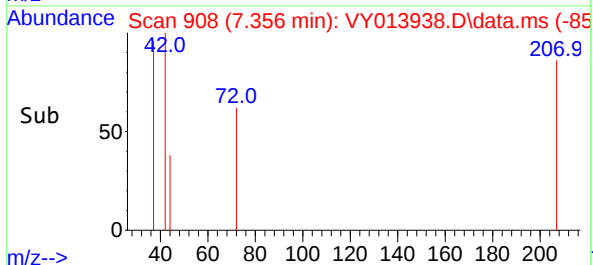
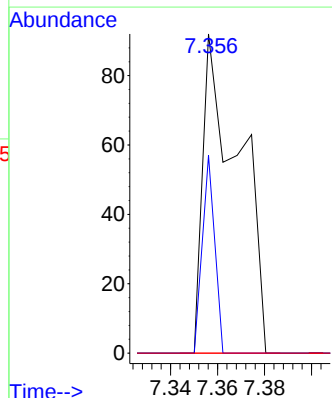
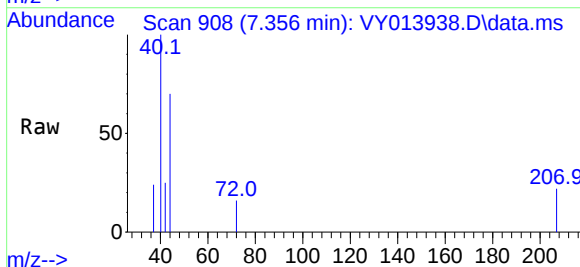
Tgt Ion: 42 Resp: 98

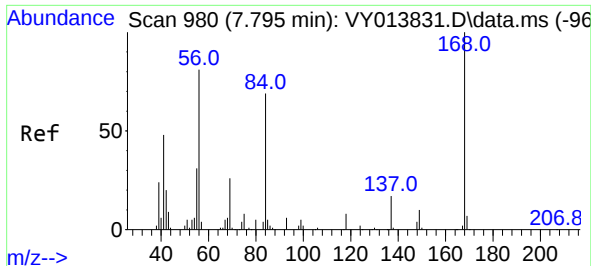
Ion Ratio Lower Upper

42 100

72 21.4 31.7 47.5#

71 0.0 30.6 45.8#

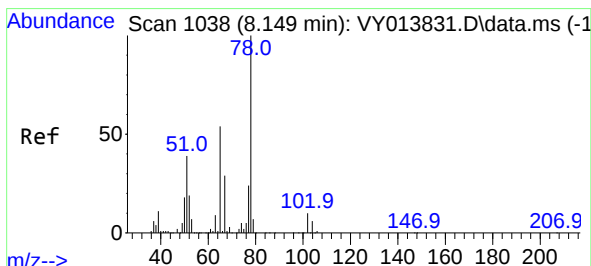
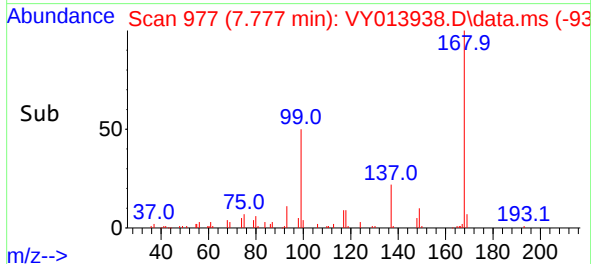
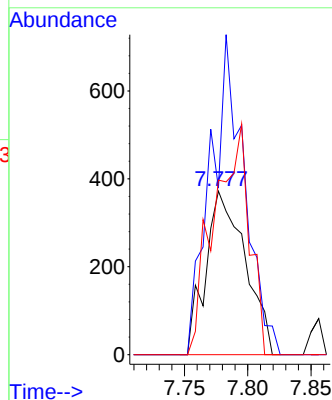
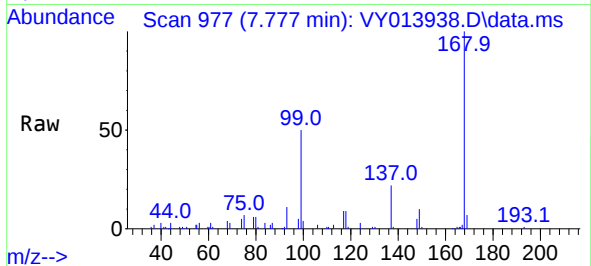




#31
Cyclohexane
Concen: 1.442 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.018 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

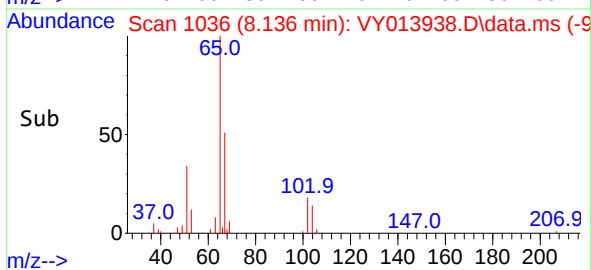
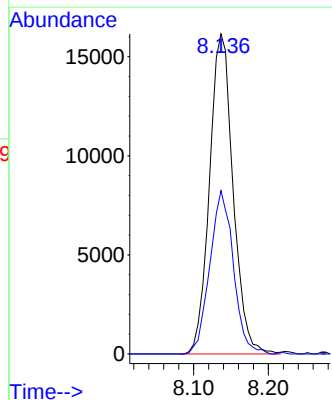
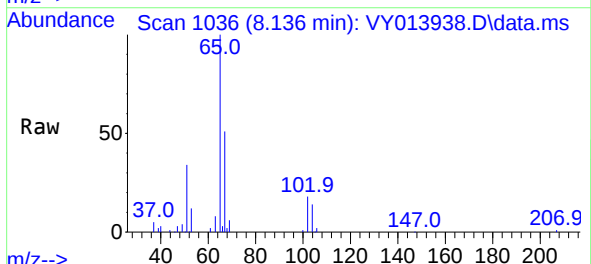
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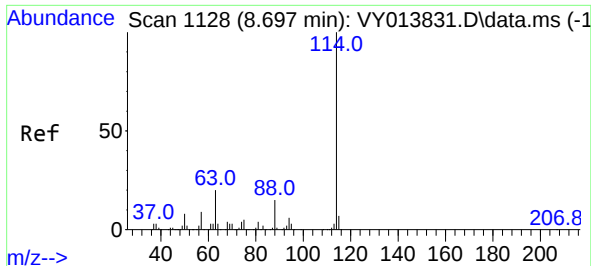
Tgt Ion: 56 Resp: 809
Ion Ratio Lower Upper
56 100
69 101.9 25.8 38.8#
84 106.7 68.2 102.2#



#33
1,2-Dichloroethane-d4
Concen: 97.038 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.012 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

Tgt Ion: 65 Resp: 35428
Ion Ratio Lower Upper
65 100
67 51.0 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1128

Delta R.T. -0.012 min

Lab File: VY013938.D

Acq: 31 May 2023 16:12

Instrument :

MSVOA_Y

ClientSampleId :

SB27

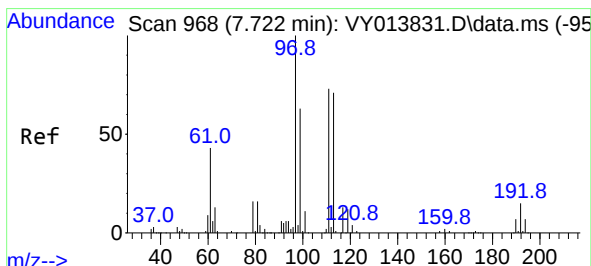
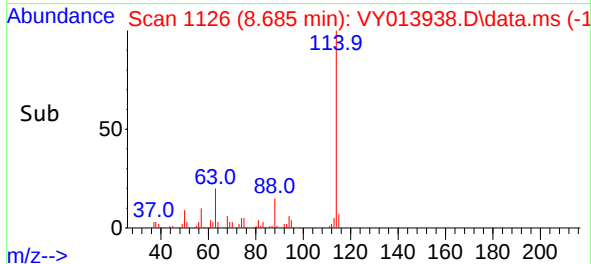
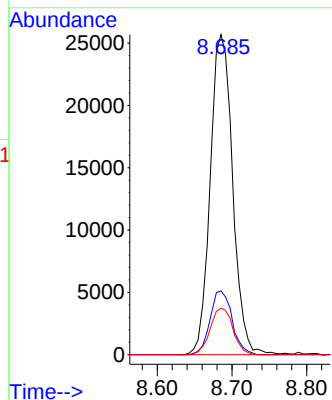
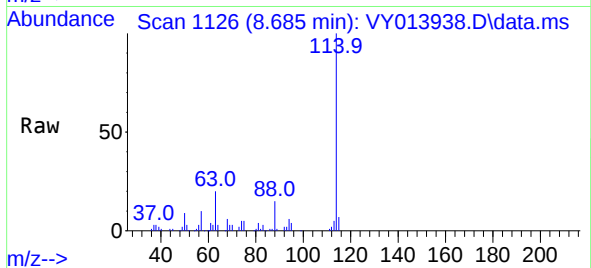
Tgt Ion:114 Resp: 53527

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.2

88 14.5 0.0 30.0



#35

Dibromofluoromethane

Concen: 84.000 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.006 min

Lab File: VY013938.D

Acq: 31 May 2023 16:12

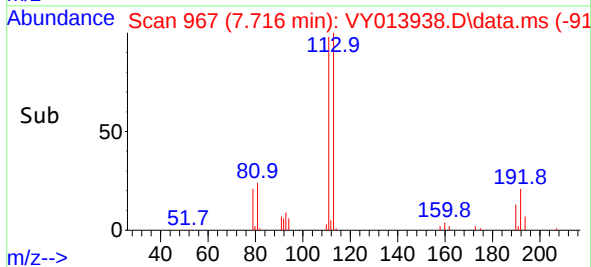
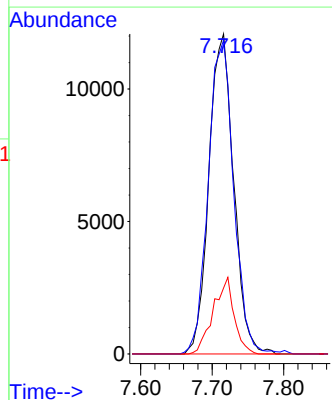
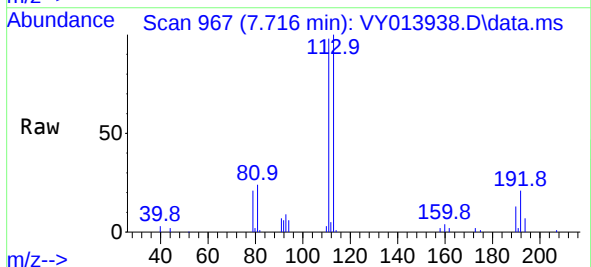
Tgt Ion:113 Resp: 29037

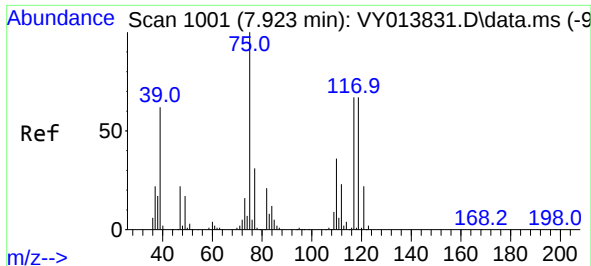
Ion Ratio Lower Upper

113 100

111 101.2 80.4 120.6

192 20.2 16.6 25.0





#36

1,1-Dichloropropene

Concen: 4.836 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY013938.D

Acq: 31 May 2023 16:12

Instrument :

MSVOA_Y

ClientSampleId :

SB27

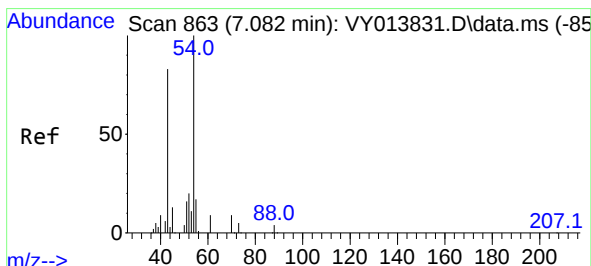
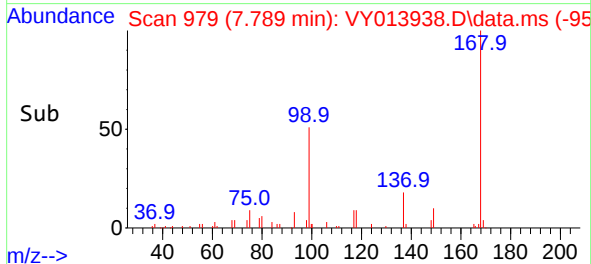
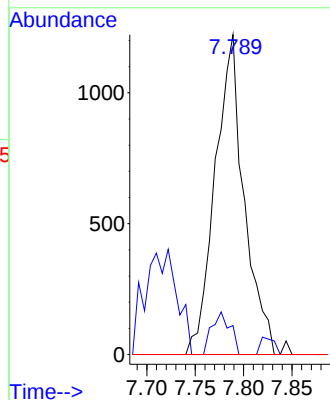
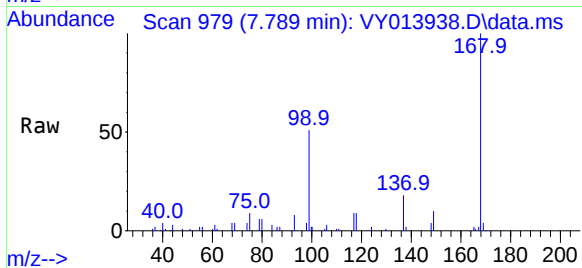
Tgt Ion: 75 Resp: 2546

Ion Ratio Lower Upper

75 100

110 8.5 17.5 52.6#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 16.122 ug/l

RT: 6.990 min Scan# 848

Delta R.T. -0.091 min

Lab File: VY013938.D

Acq: 31 May 2023 16:12

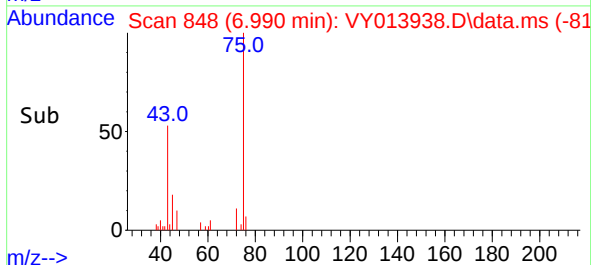
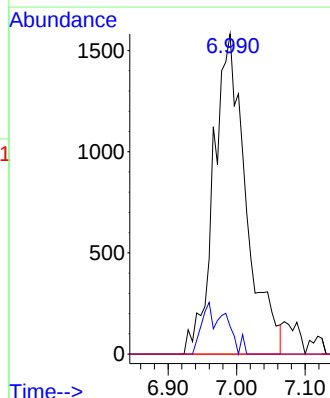
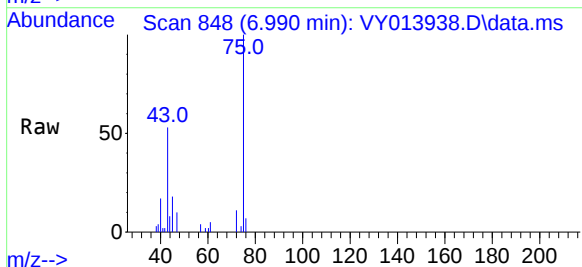
Tgt Ion: 43 Resp: 5178

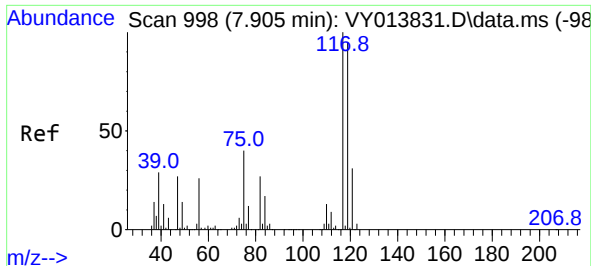
Ion Ratio Lower Upper

43 100

61 5.0 10.5 15.7#

70 0.0 6.9 10.3#

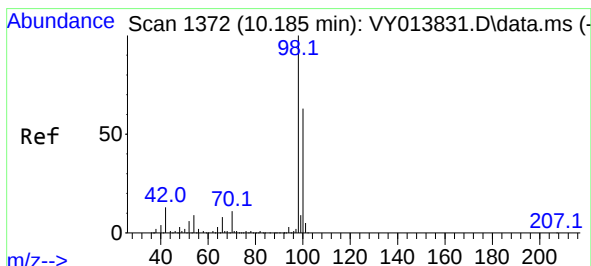
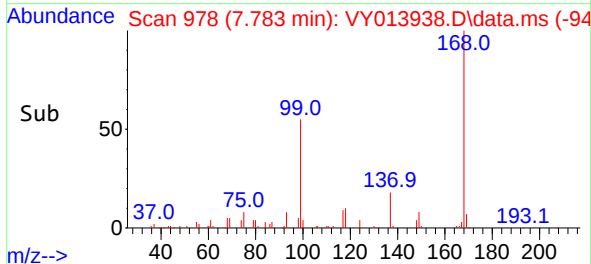
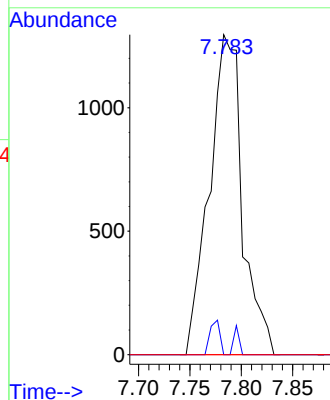
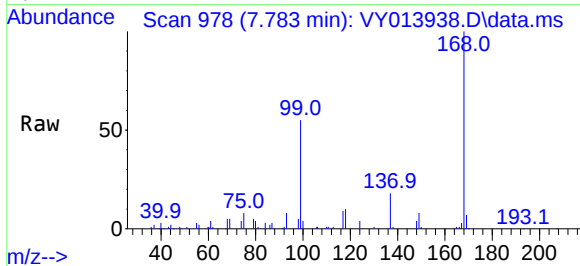




#38
Carbon Tetrachloride
Concen: 4.830 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

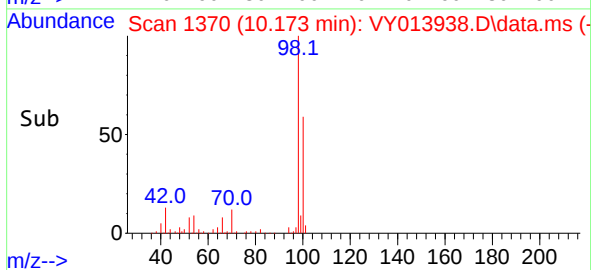
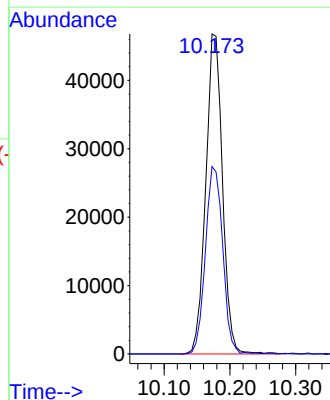
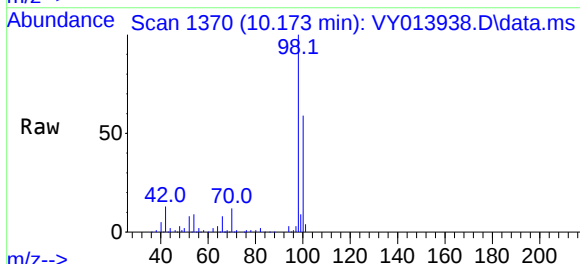
Instrument :
MSVOA_Y
ClientSampleId :
SB27

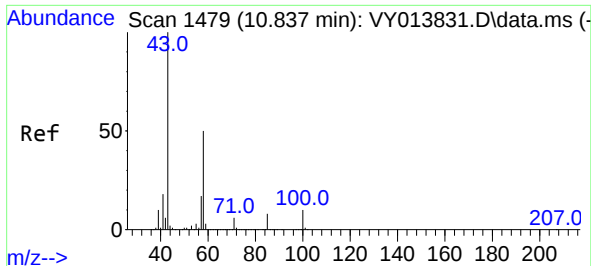
Tgt Ion:117 Resp: 2892
Ion Ratio Lower Upper
117 100
119 0.0 75.6 113.4#
121 0.0 24.8 37.2#



#50
Toluene-d8
Concen: 63.034 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.012 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

Tgt Ion: 98 Resp: 82815
Ion Ratio Lower Upper
98 100
100 60.6 50.8 76.2





#59

2-Hexanone

Concen: 1.118 ug/l

RT: 10.843 min Scan# 1479

Delta R.T. 0.006 min

Lab File: VY013938.D

Acq: 31 May 2023 16:12

Instrument :

MSVOA_Y

ClientSampleId :

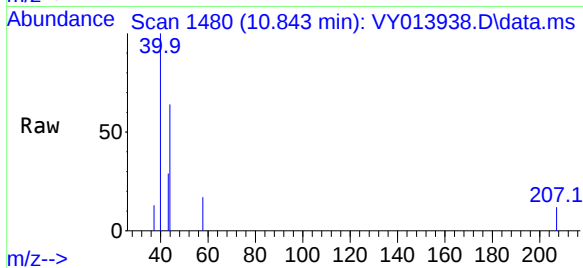
SB27

Tgt Ion: 43 Resp: 248

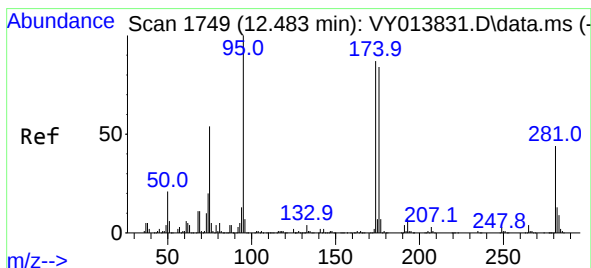
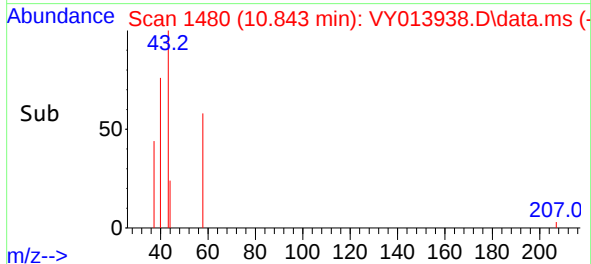
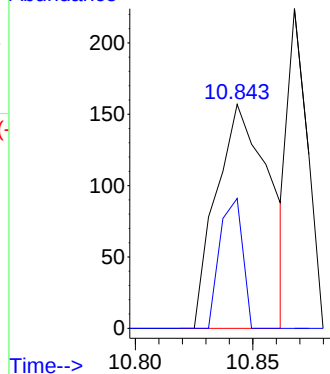
Ion Ratio Lower Upper

43 100

58 24.6 24.8 74.3#



Abundance



#62

4-Bromofluorobenzene

Concen: 55.150 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.006 min

Lab File: VY013938.D

Acq: 31 May 2023 16:12

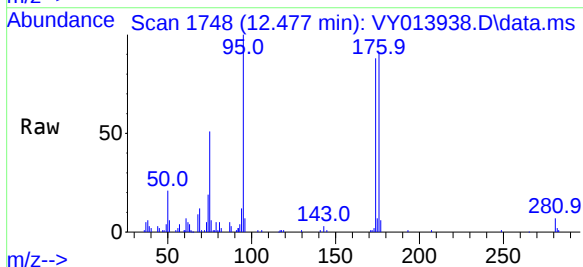
Tgt Ion: 95 Resp: 24085

Ion Ratio Lower Upper

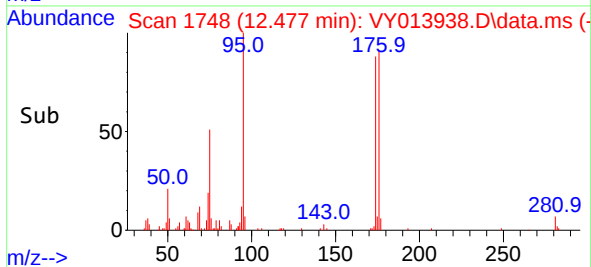
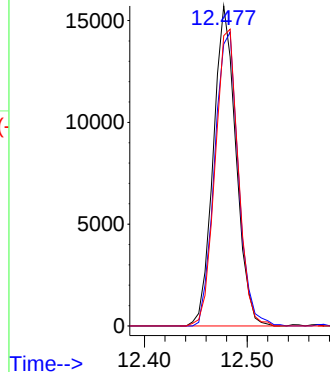
95 100

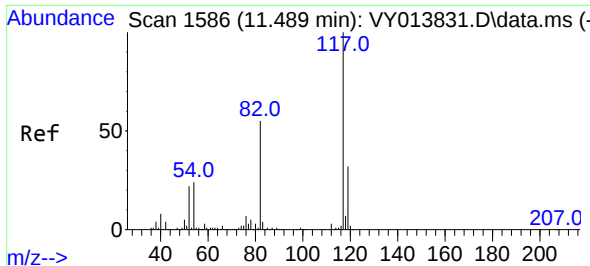
174 95.7 0.0 176.0

176 93.9 0.0 170.2



Abundance

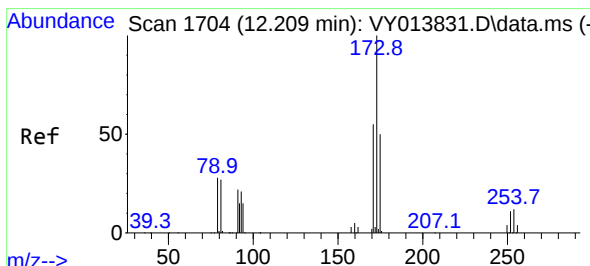
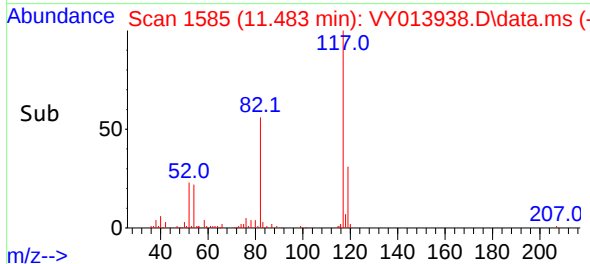
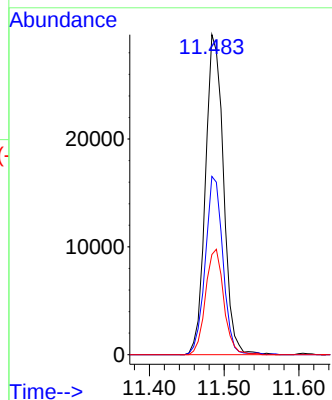
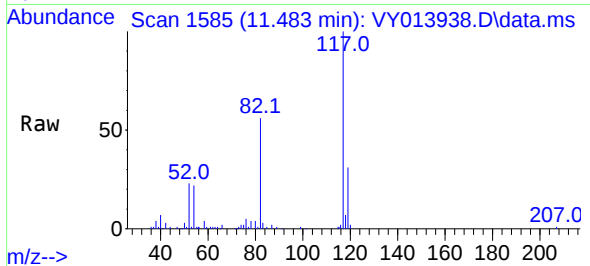




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.483 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

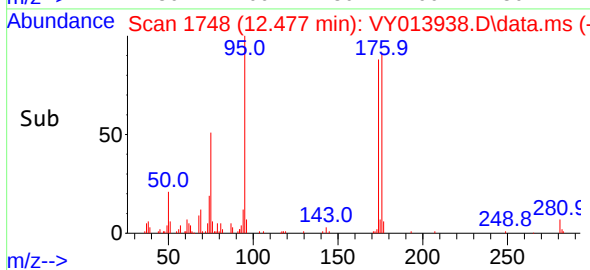
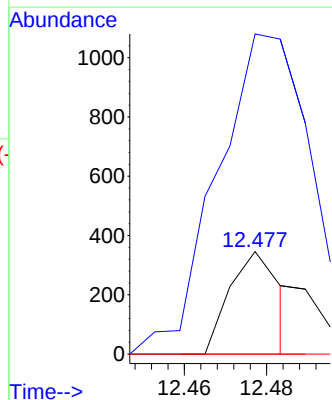
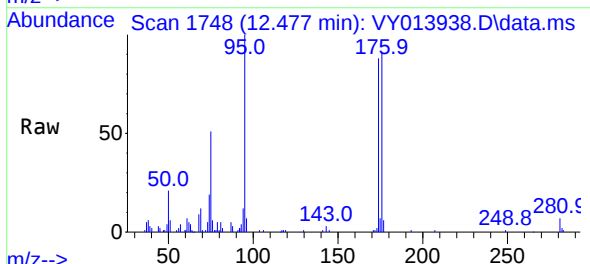
Instrument :
MSVOA_Y
ClientSampleId :
SB27

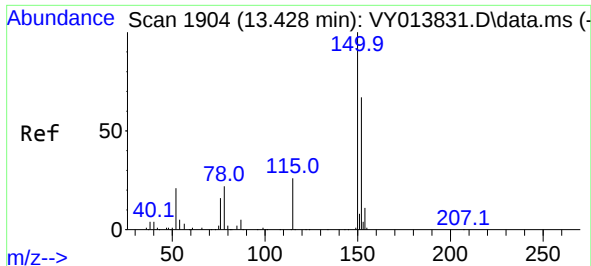
Tgt Ion:	117	Resp:	49711
Ion	Ratio	Lower	Upper
117	100		
82	55.7	44.2	66.4
119	31.3	25.7	38.5



#71
Bromoform
Concen: 1.119 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.268 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

Tgt Ion:	173	Resp:	294
Ion	Ratio	Lower	Upper
173	100		
175	439.5	25.1	75.4#
254	0.0	0.1	0.1#

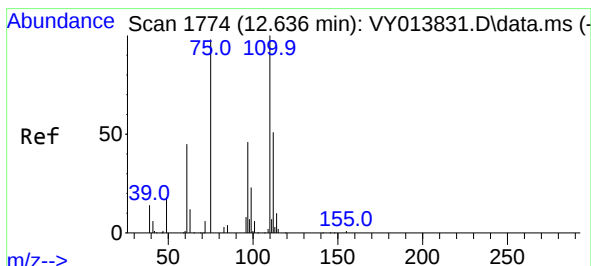
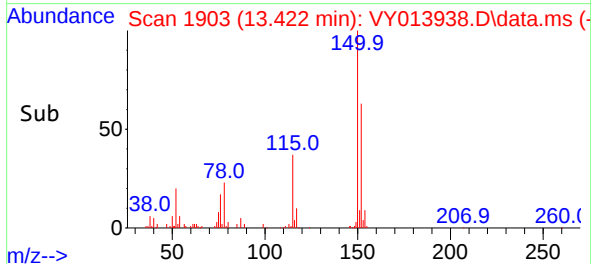
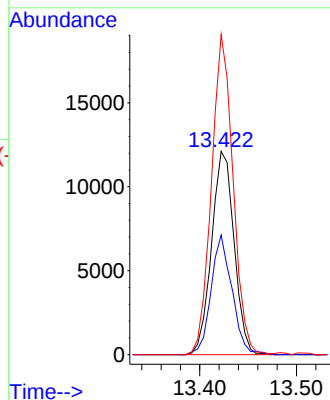
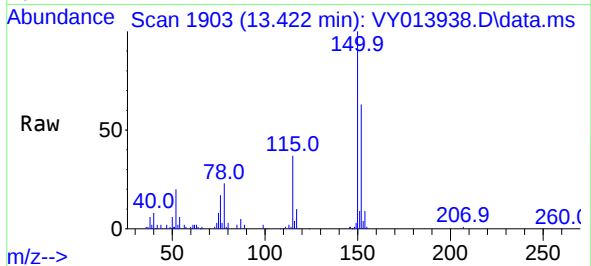




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.422 min Scan# 1904
 Delta R.T. -0.006 min
 Lab File: VY013938.D
 Acq: 31 May 2023 16:12

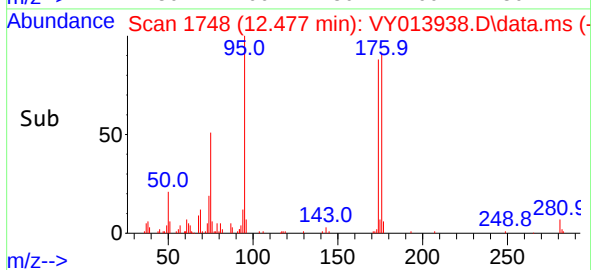
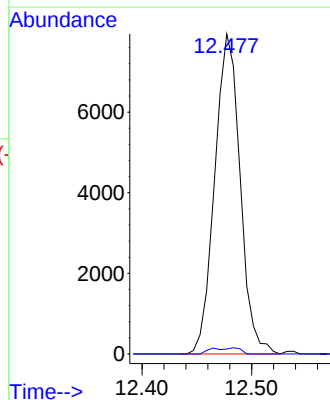
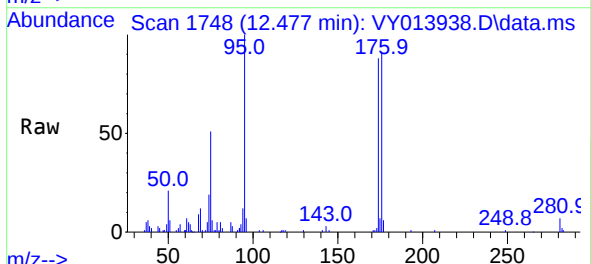
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB27

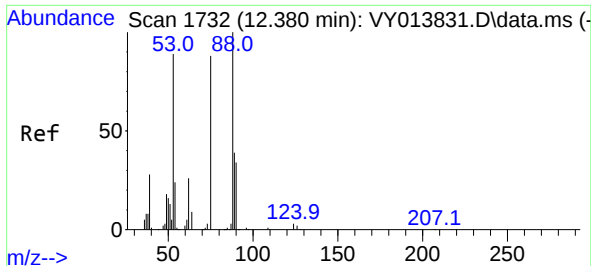
Tgt Ion:152 Resp: 19602
 Ion Ratio Lower Upper
 152 100
 115 54.6 28.8 86.5
 150 151.1 0.0 353.4



#76
 1,2,3-Trichloropropane
 Concen: 55.336 ug/l
 RT: 12.477 min Scan# 1748
 Delta R.T. -0.158 min
 Lab File: VY013938.D
 Acq: 31 May 2023 16:12

Tgt Ion: 75 Resp: 12790
 Ion Ratio Lower Upper
 75 100
 77 2.1 0.0 0.0#

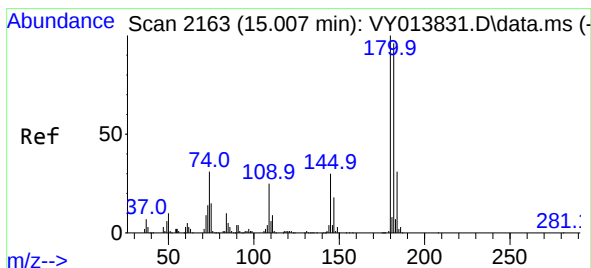
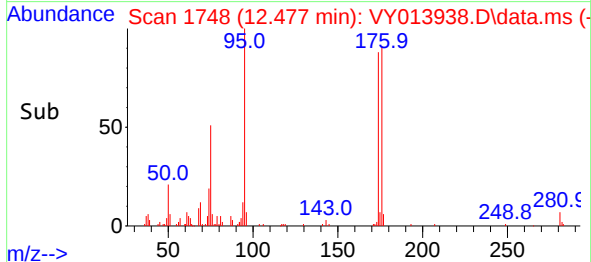
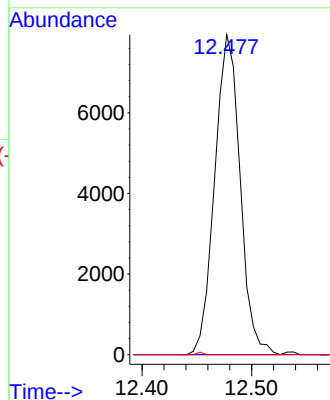
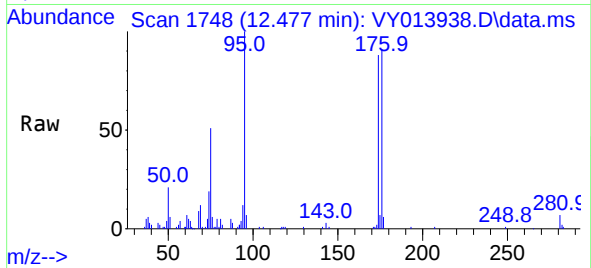




#81
trans-1,4-Dichloro-2-butene
Concen: 120.117 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.098 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

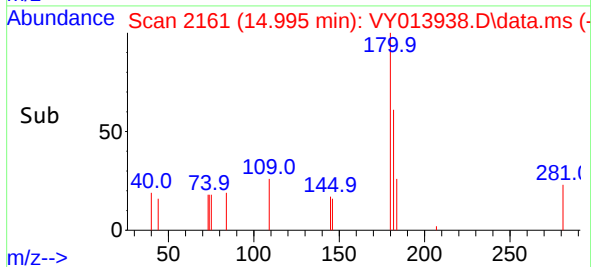
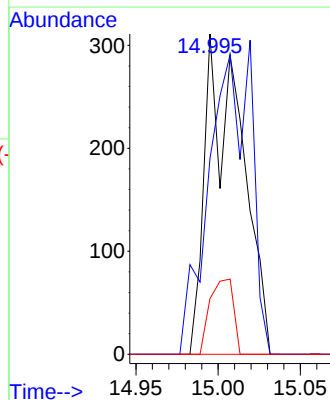
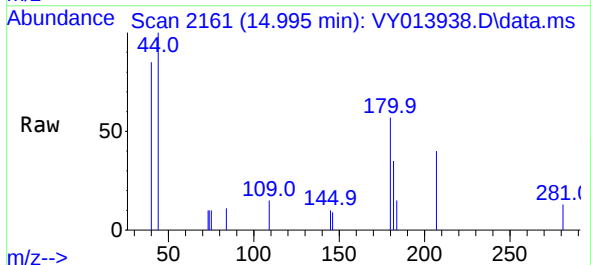
Instrument :
MSVOA_Y
ClientSampleId :
SB27

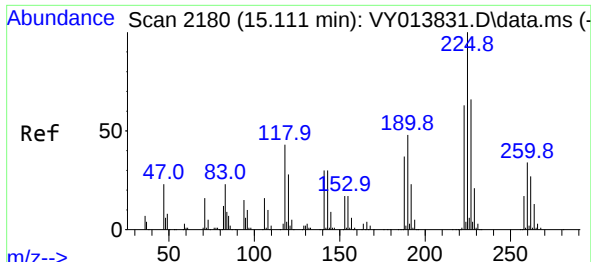
Tgt Ion: 75 Resp: 12790
Ion Ratio Lower Upper
75 100
53 0.0 79.7 119.5#
89 0.0 36.4 54.6#



#93
1,2,4-Trichlorobenzene
Concen: 1.260 ug/l
RT: 14.995 min Scan# 2161
Delta R.T. -0.012 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

Tgt Ion:180 Resp: 480
Ion Ratio Lower Upper
180 100
182 0.0 48.1 144.3#
145 0.0 14.8 44.4#

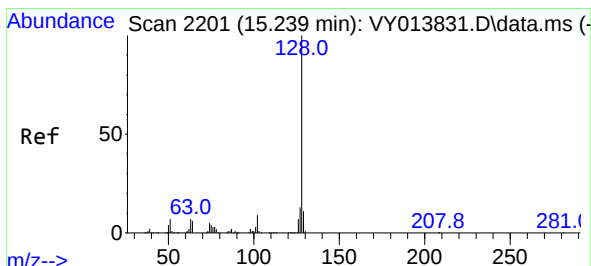
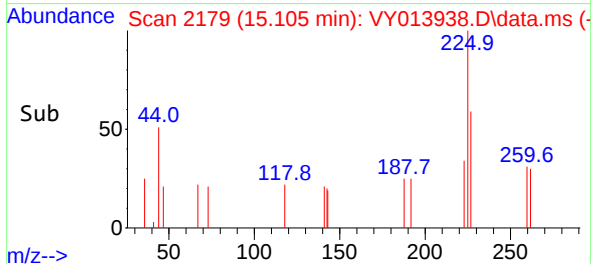
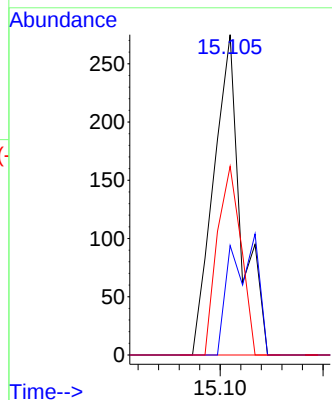
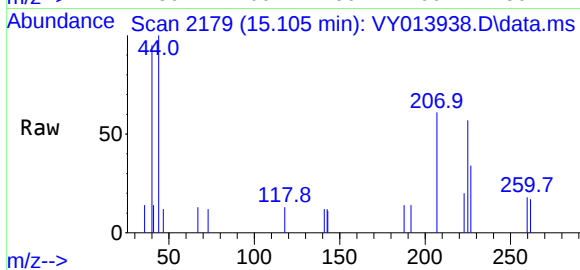




#94
Hexachlorobutadiene
Concen: 1.066 ug/l
RT: 15.105 min Scan# 2180
Delta R.T. -0.006 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

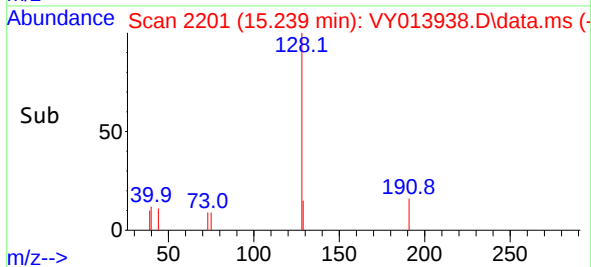
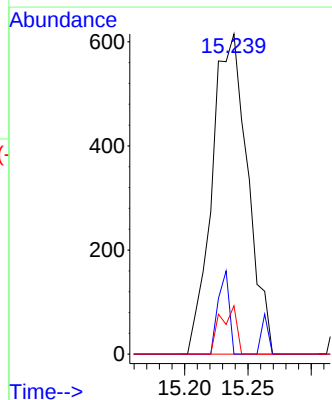
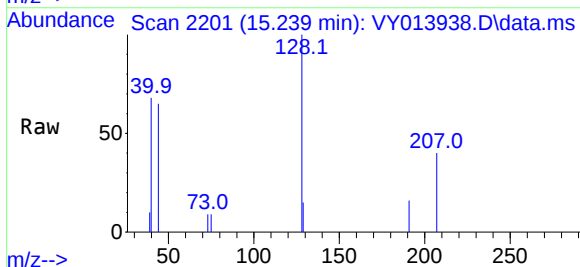
Instrument :
MSVOA_Y
ClientSampleId :
SB27

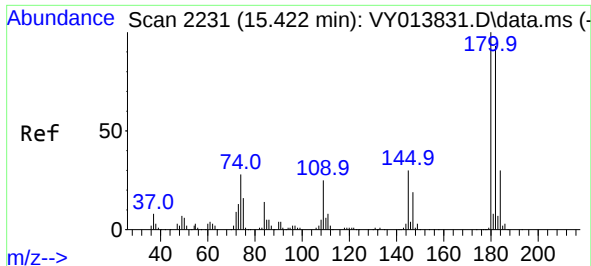
Tgt Ion:	225	Resp:	256
Ion	Ratio	Lower	Upper
225	100		
223	36.7	31.3	93.9
227	50.8	32.9	98.6



#95
Naphthalene
Concen: 5.856 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. -0.000 min
Lab File: VY013938.D
Acq: 31 May 2023 16:12

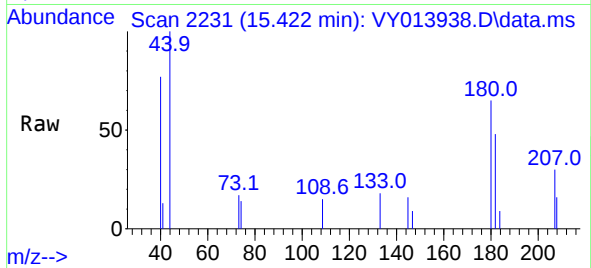
Tgt Ion:	128	Resp:	1203
Ion	Ratio	Lower	Upper
128	100		
127	8.1	10.7	16.1#
129	6.9	9.0	13.4#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.632 ug/l
 RT: 15.422 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY013938.D
 Acq: 31 May 2023 16:12

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB27



Tgt Ion:	180	Resp:	553
Ion	Ratio	Lower	Upper
180	100		
182	104.2	47.4	142.2
145	31.1	15.5	46.5

