

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071922\
 Data File : VY009601.D
 Acq On : 19 Jul 2022 19:47
 Operator : KP/MD
 Sample : N3652-04
 Misc : 5.75g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SED-4-(6-12)

Quant Time: Jul 20 02:46:05 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)

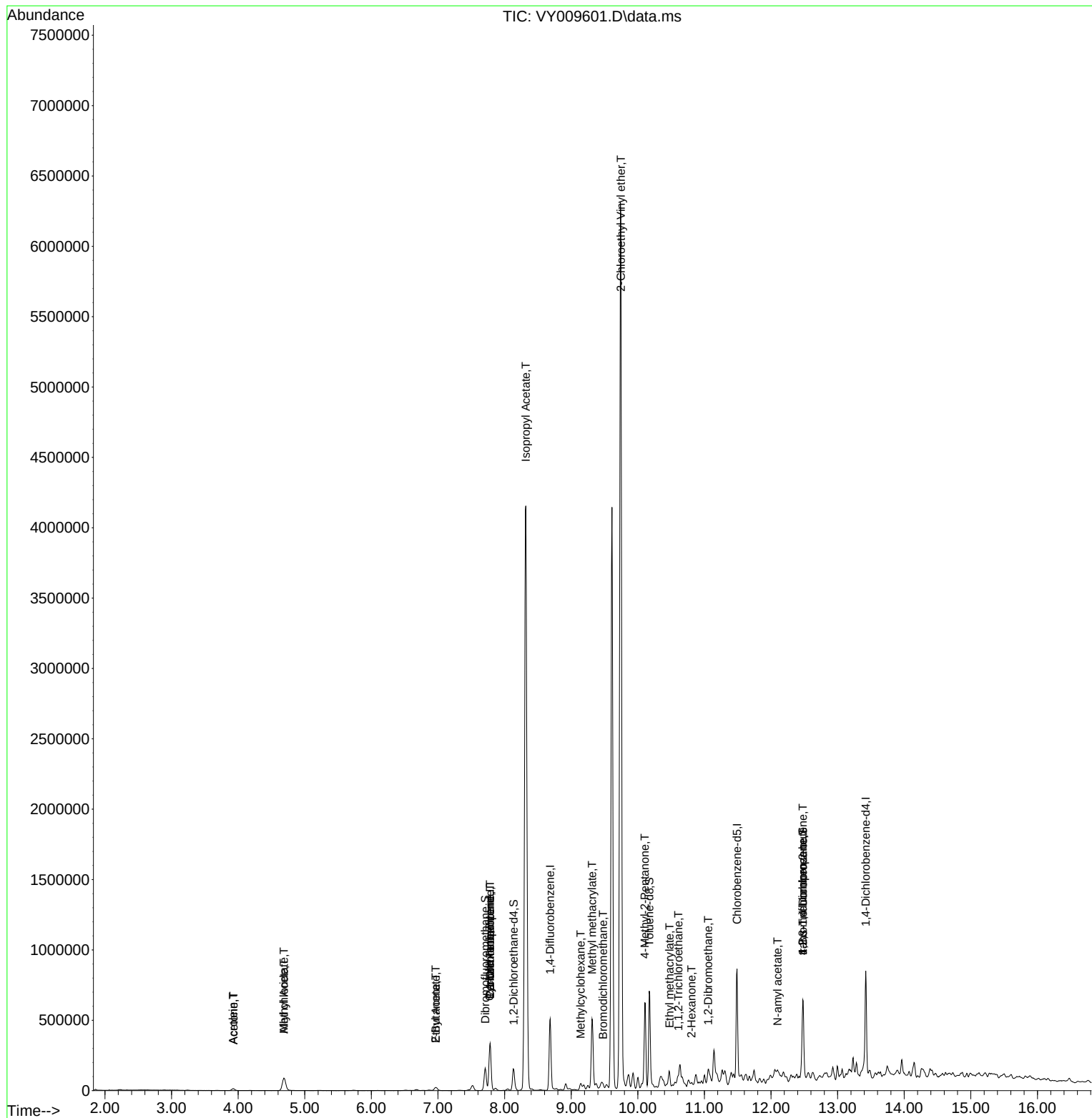
Internal Standards						
1) Pentafluorobenzene	7.783	168	276435	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	456260	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	420875	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	198329	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	116879	44.706	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	89.420%		
35) Dibromofluoromethane	7.710	113	114953	39.992	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	79.980%		
50) Toluene-d8	10.173	98	448927	40.626	ug/l	0.00
Spiked Amount 50.000	Range 78 - 125		Recovery =	81.260%		
62) 4-Bromofluorobenzene	12.477	95	161671	45.152	ug/l	0.00
Spiked Amount 50.000	Range 50 - 146		Recovery =	90.300%		
Target Compounds						Qvalue
11) Tert butyl alcohol	4.936	59	409	Below Cal	#	77
13) Acrolein	3.924	56	3118	16.682	ug/l #	80
14) Allyl chloride	4.686	41	37004	9.410	ug/l #	58
16) Acetone	3.930	43	9025	13.646	ug/l #	66
18) Methyl Acetate	4.686	43	88107	47.459	ug/l #	56
20) Methylene Chloride	4.704	84	12292	Below Cal	#	77
25) 2-Butanone	6.966	43	11281	11.694	ug/l #	54
31) Cyclohexane	7.777	56	8666	1.880	ug/l #	9
36) 1,1-Dichloropropene	7.783	75	18328	4.315	ug/l #	51
37) Ethyl Acetate	6.966	43	11281	4.772	ug/l #	73
38) Carbon Tetrachloride	7.783	117	24684	5.551	ug/l #	16
39) Methylcyclohexane	9.142	83	10705	2.044	ug/l #	40
43) Isopropyl Acetate	8.319	43	818696	188.995	ug/l #	56
47) Bromodichloromethane	9.478	83	24638	5.933	ug/l #	24
48) Methyl methacrylate	9.313	41	118343	61.834	ug/l #	37
51) 4-Methyl-2-Pentanone	10.105	43	60095	26.718	ug/l #	85
55) 1,1,2-Trichloroethane	10.611	97	7681	3.080	ug/l #	30
56) Ethyl methacrylate	10.477	69	25150	7.881	ug/l #	83
58) 2-Chloroethyl Vinyl ether	9.746	63	8721	32.769	ug/l #	48
59) 2-Hexanone	10.807	43	8199	5.241	ug/l #	42
61) 1,2-Dibromoethane	11.057	107	2507	1.030	ug/l #	1
74) N-amyl acetate	12.099	43	8861	2.426	ug/l #	39
76) 1,2,3-Trichloropropane	12.477	75	74224	39.286	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	74224	77.465	ug/l #	7

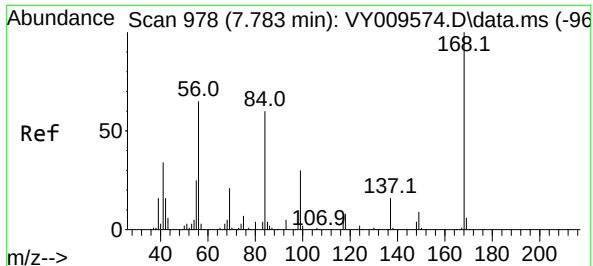
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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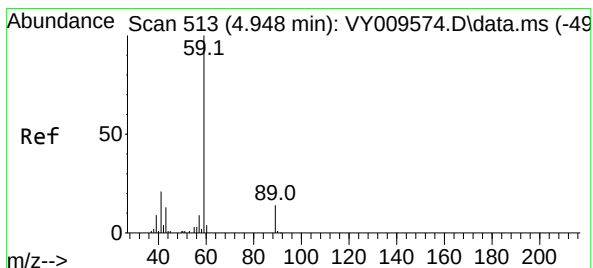
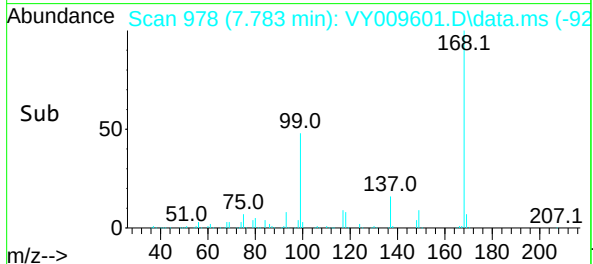
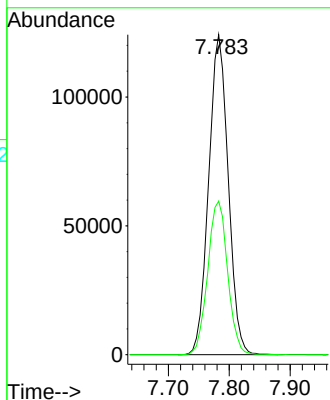
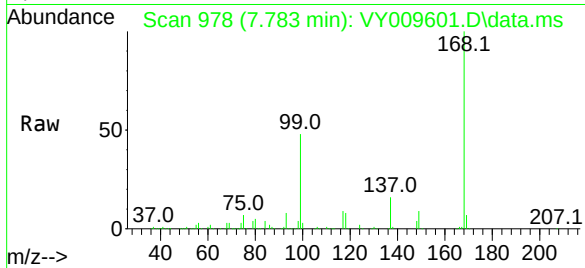




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

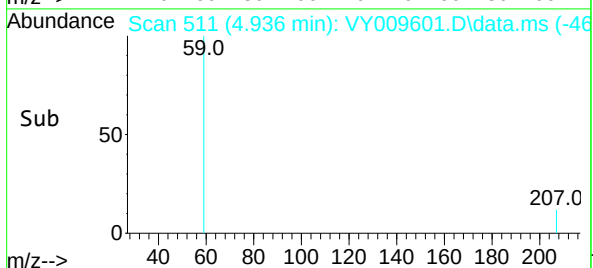
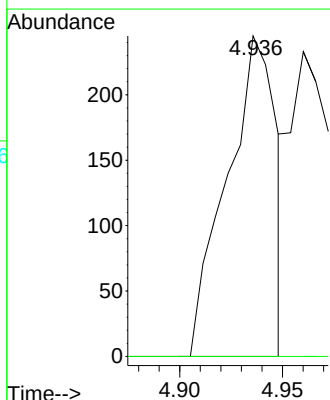
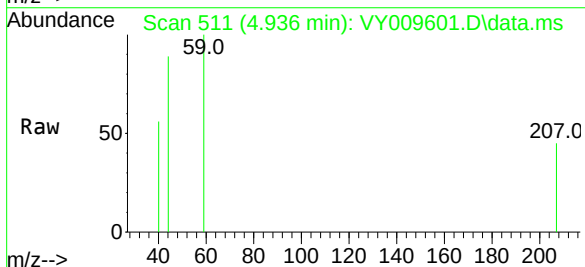
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

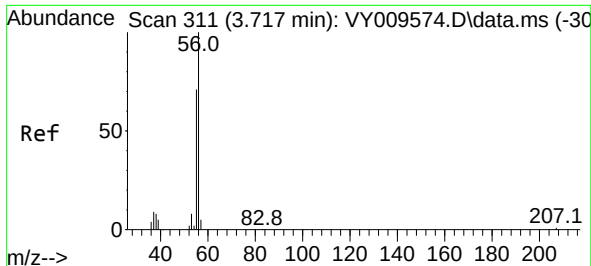
Tgt Ion:168 Resp: 276435
Ion Ratio Lower Upper
168 100
99 48.0 46.9 70.3



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.936 min Scan# 511
Delta R.T. -0.012 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 59 Resp: 409
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#





#13

Acrolein

Concen: 16.682 ug/l

RT: 3.924 min Scan# 345

Delta R.T. 0.207 min

Lab File: VY009601.D

Acq: 19 Jul 2022 19:47

Instrument :

MSVOA_Y

ClientSampleId :

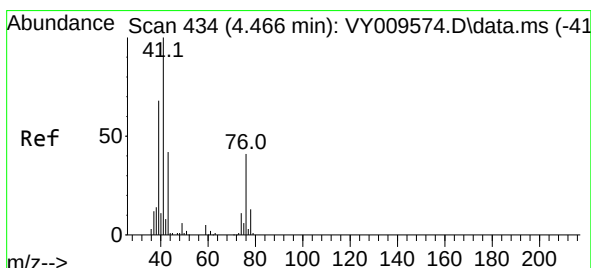
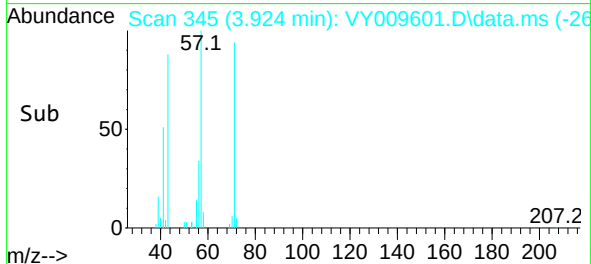
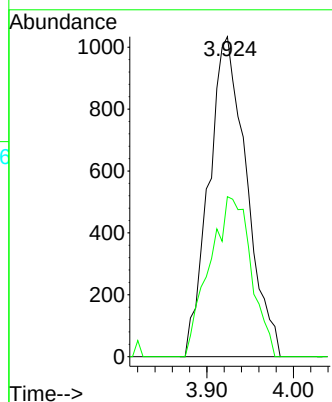
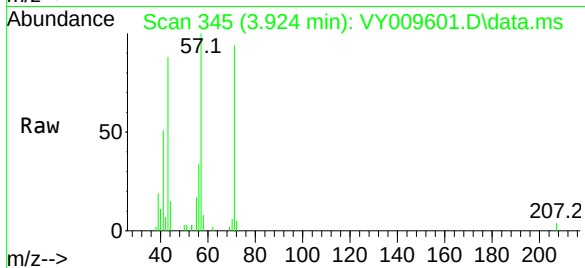
SED-4-(6-12)

Tgt Ion: 56 Resp: 3118

Ion Ratio Lower Upper

56 100

55 55.2 57.6 86.4#



#14

Allyl chloride

Concen: 9.410 ug/l

RT: 4.686 min Scan# 470

Delta R.T. 0.219 min

Lab File: VY009601.D

Acq: 19 Jul 2022 19:47

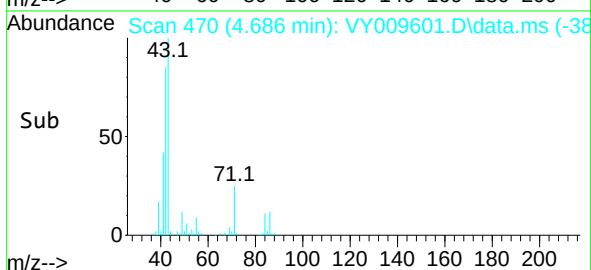
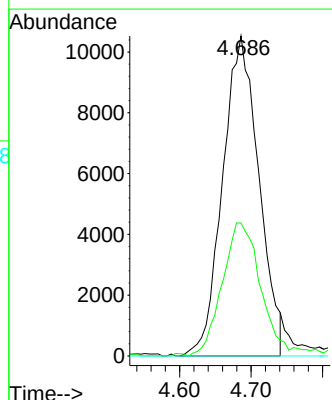
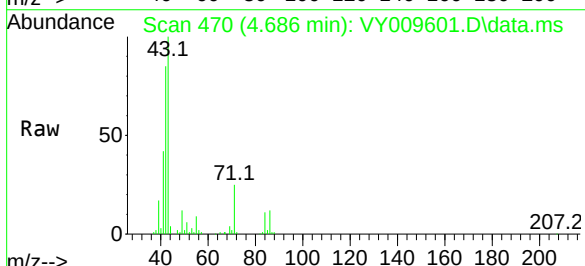
Tgt Ion: 41 Resp: 37004

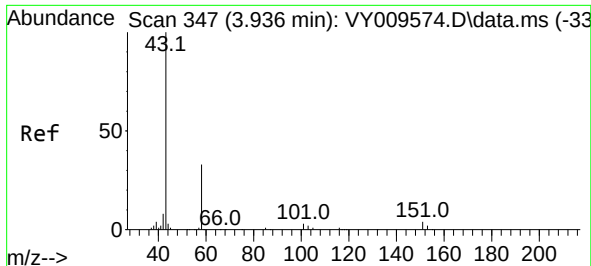
Ion Ratio Lower Upper

41 100

39 42.9 58.8 88.2#

76 0.0 25.1 37.7#

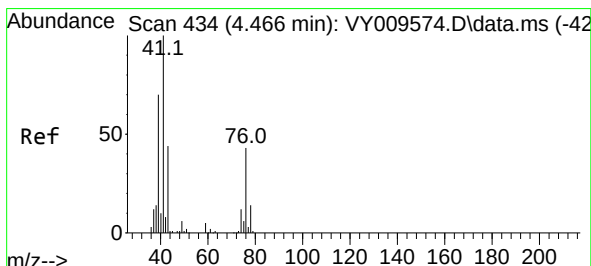
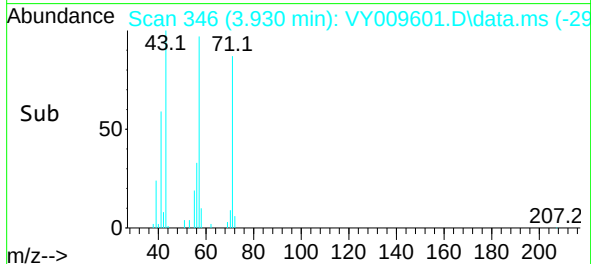
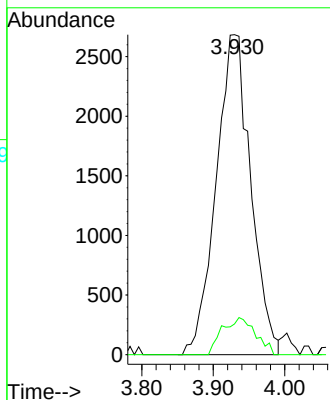
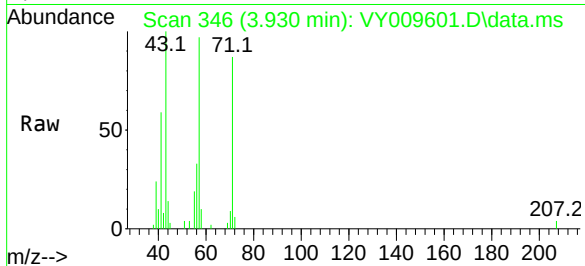




#16
Acetone
Concen: 13.646 ug/l
RT: 3.930 min Scan# 347
Delta R.T. -0.006 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

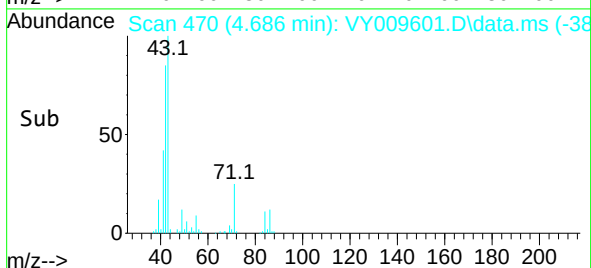
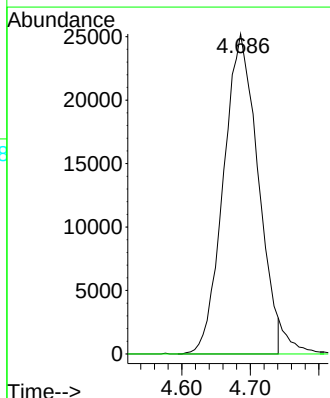
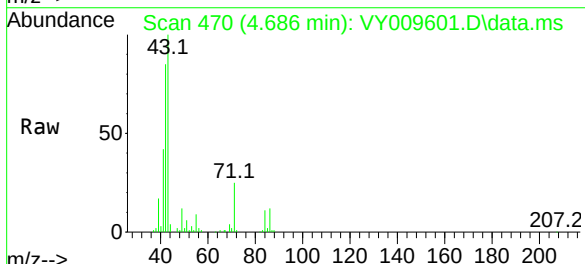
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

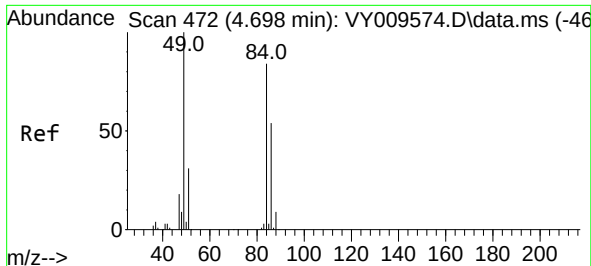
Tgt Ion: 43 Resp: 9025
Ion Ratio Lower Upper
43 100
58 9.6 22.0 33.0#



#18
Methyl Acetate
Concen: 47.459 ug/l
RT: 4.686 min Scan# 470
Delta R.T. 0.219 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 43 Resp: 88107
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#

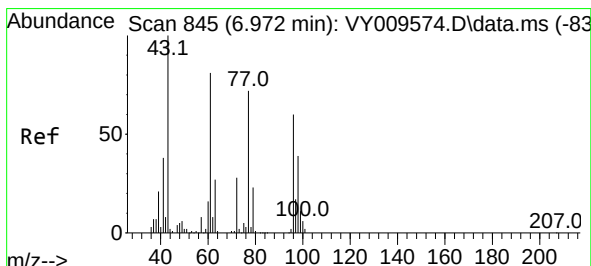
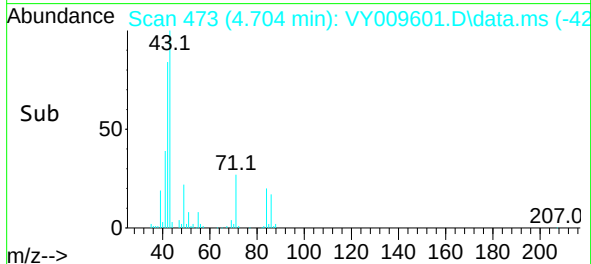
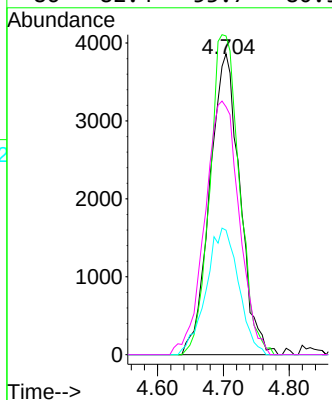
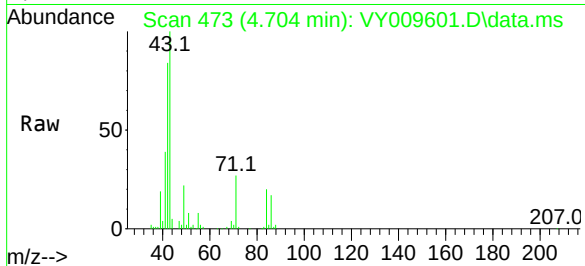




#20
Methylene Chloride
Concen: Below Cal
RT: 4.704 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

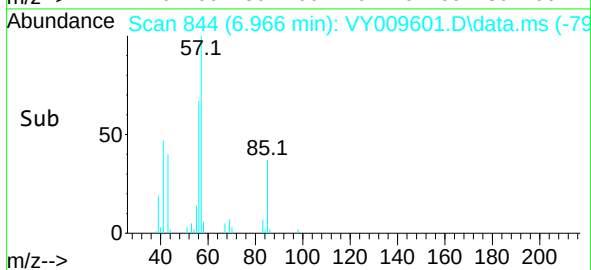
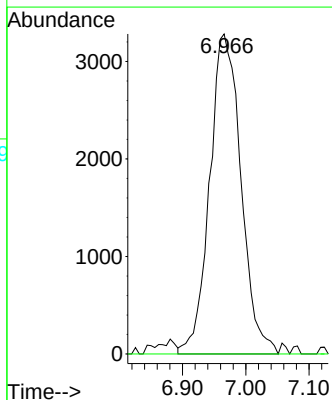
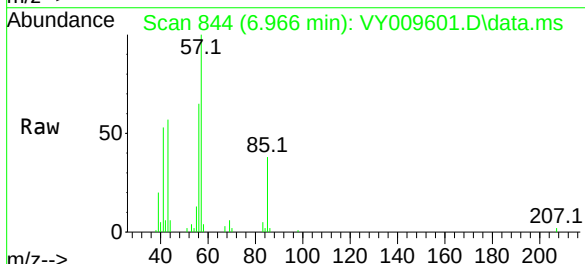
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

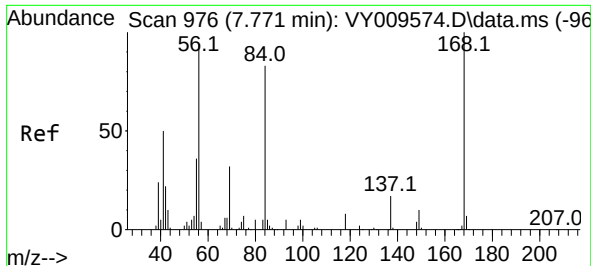
Tgt Ion: 84 Resp: 12292
Ion Ratio Lower Upper
84 100
49 105.9 114.4 171.6#
51 41.4 35.3 52.9
86 82.4 53.7 80.5#



#25
2-Butanone
Concen: 11.694 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.006 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 43 Resp: 11281
Ion Ratio Lower Upper
43 100
72 0.0 17.7 26.5#

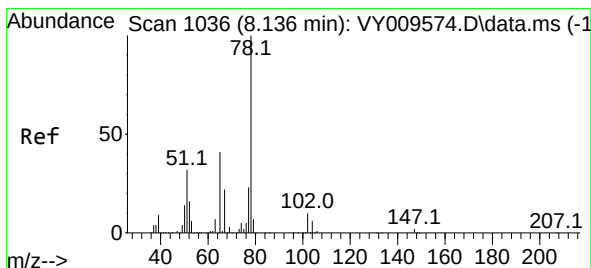
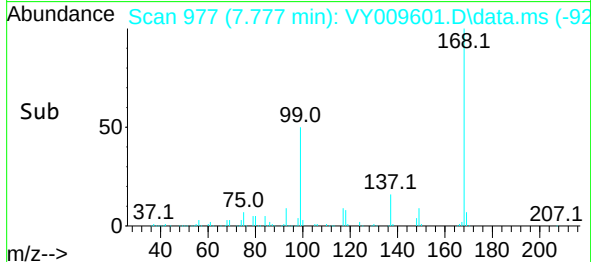
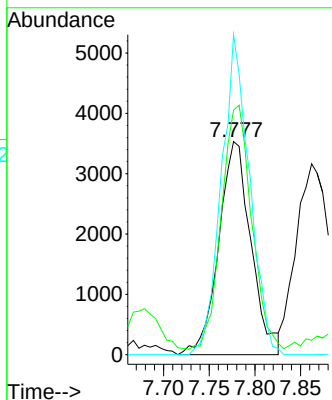
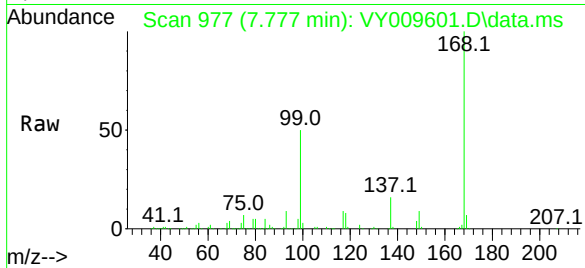




#31
Cyclohexane
Concen: 1.880 ug/l
RT: 7.777 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

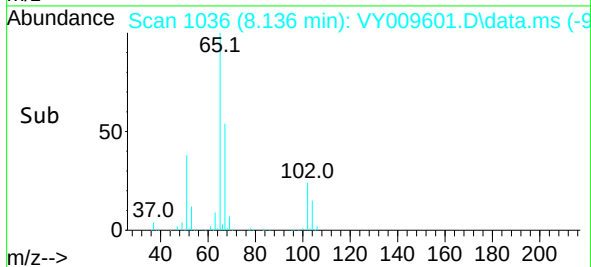
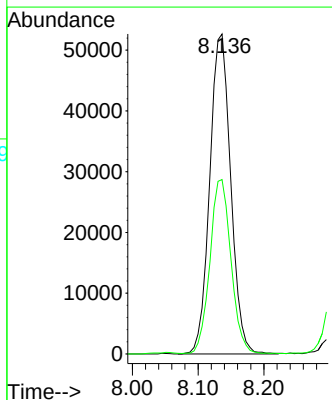
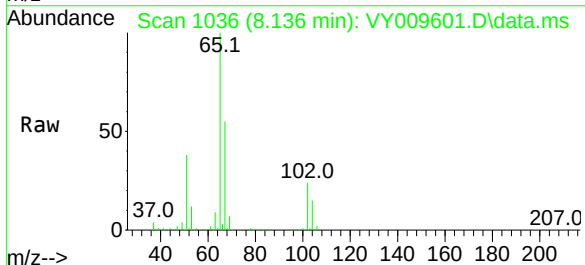
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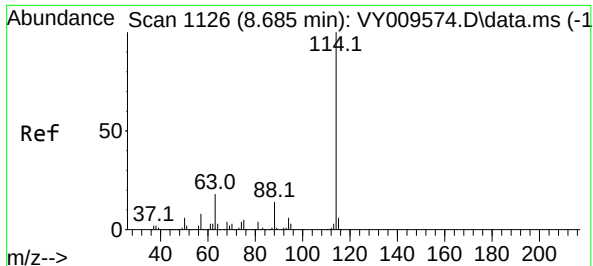
Tgt Ion: 56 Resp: 8666
Ion Ratio Lower Upper
56 100
69 111.5 26.7 40.1#
84 150.1 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 44.706 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 65 Resp: 116879
Ion Ratio Lower Upper
65 100
67 54.5 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: VY009601.D

Acq: 19 Jul 2022 19:47

Instrument :

MSVOA_Y

ClientSampleId :

SED-4-(6-12)

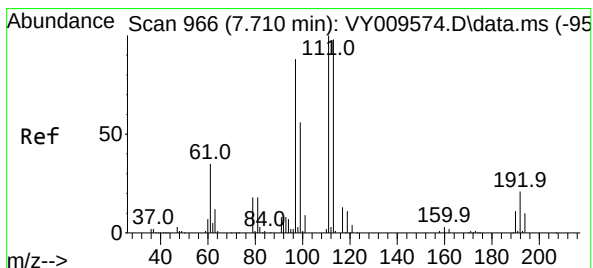
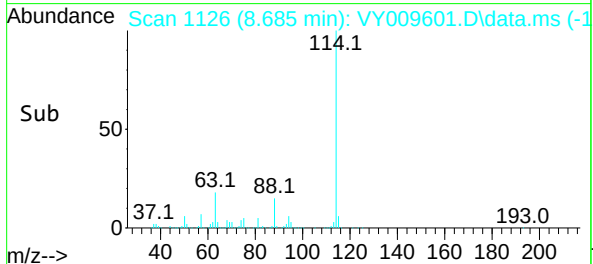
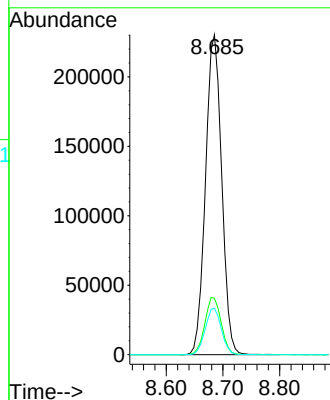
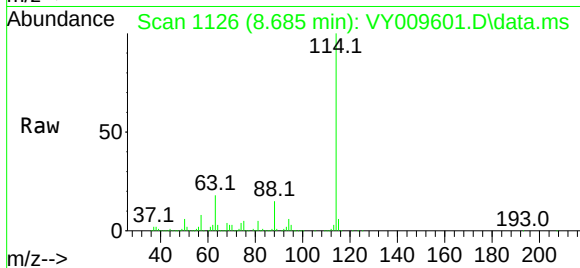
Tgt Ion:114 Resp: 456260

Ion Ratio Lower Upper

114 100

63 17.7 0.0 43.2

88 14.5 0.0 31.8



#35

Dibromofluoromethane

Concen: 39.992 ug/l

RT: 7.710 min Scan# 966

Delta R.T. -0.000 min

Lab File: VY009601.D

Acq: 19 Jul 2022 19:47

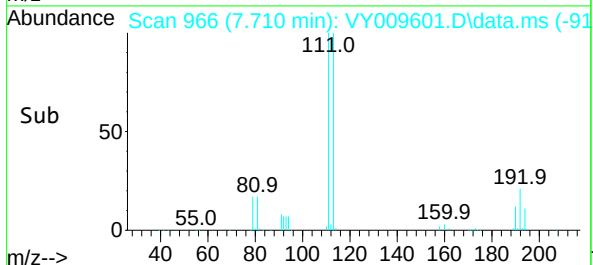
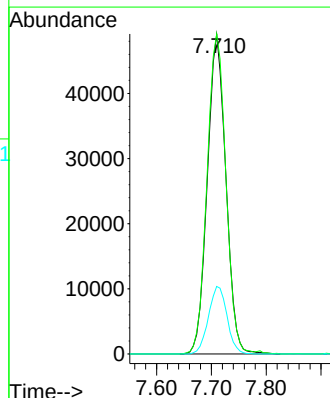
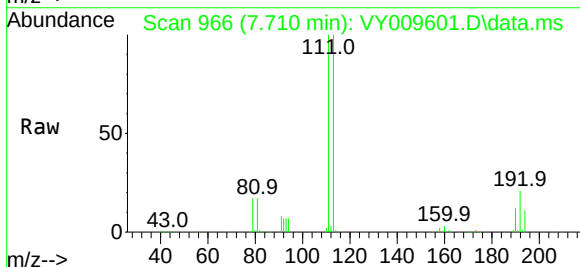
Tgt Ion:113 Resp: 114953

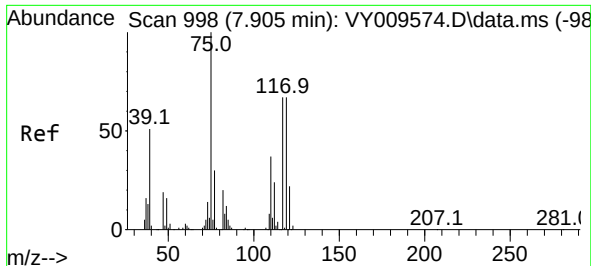
Ion Ratio Lower Upper

113 100

111 102.4 82.6 124.0

192 21.2 17.6 26.4





#36

1,1-Dichloropropene

Concen: 4.315 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.122 min

Lab File: VY009601.D

Acq: 19 Jul 2022 19:47

Instrument :

MSVOA_Y

ClientSampleId :

SED-4-(6-12)

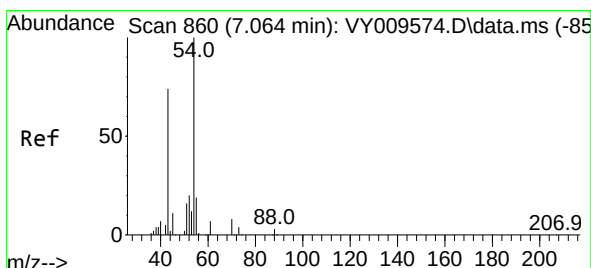
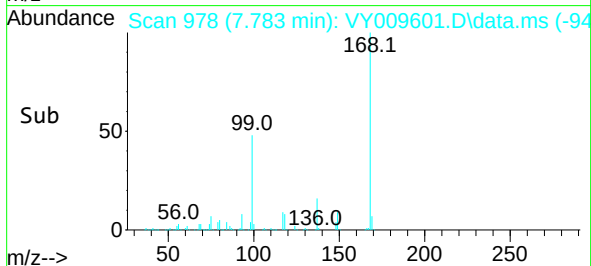
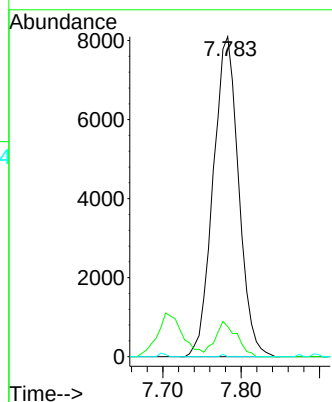
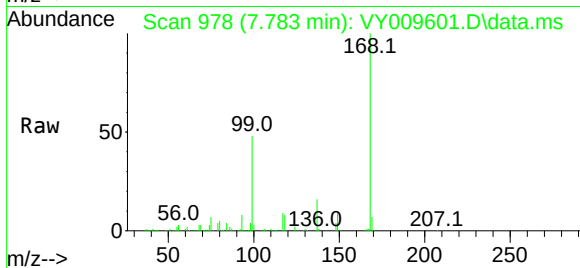
Tgt Ion: 75 Resp: 18328

Ion Ratio Lower Upper

75 100

110 9.2 17.1 51.2#

77 0.1 24.4 36.6#



#37

Ethyl Acetate

Concen: 4.772 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.098 min

Lab File: VY009601.D

Acq: 19 Jul 2022 19:47

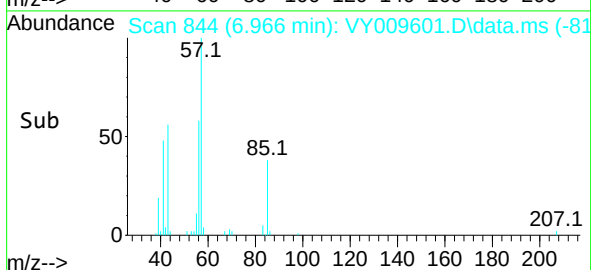
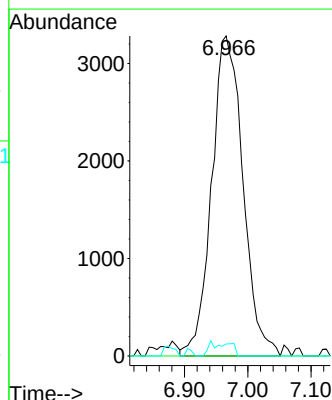
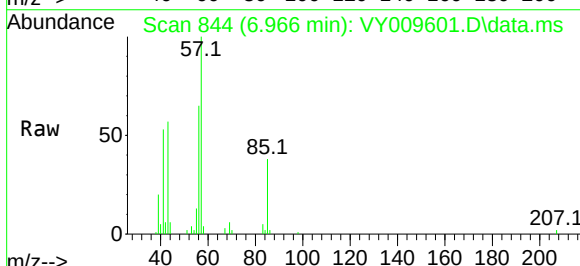
Tgt Ion: 43 Resp: 11281

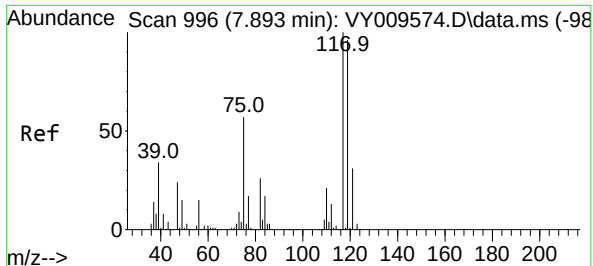
Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 1.2 7.1 10.7#

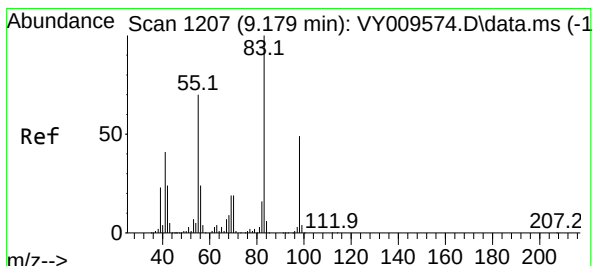
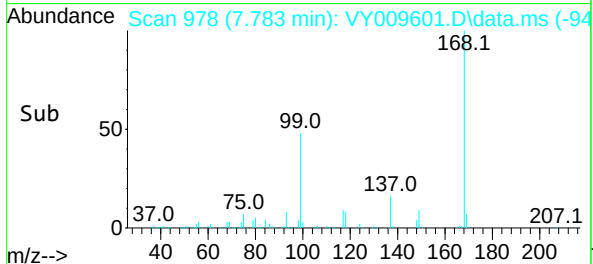
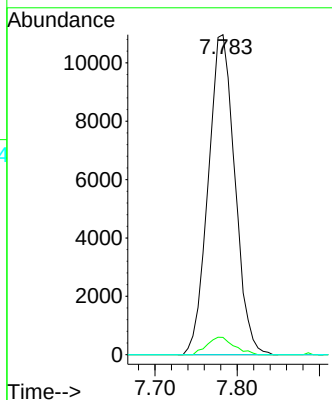
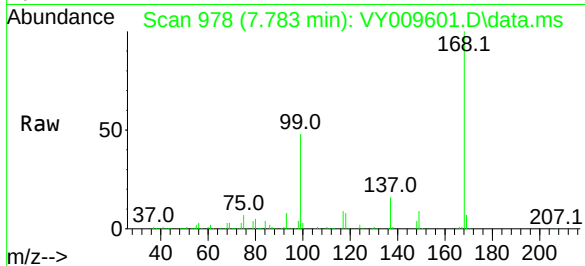




#38
Carbon Tetrachloride
Concen: 5.551 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

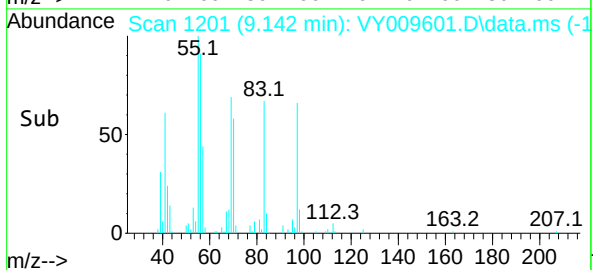
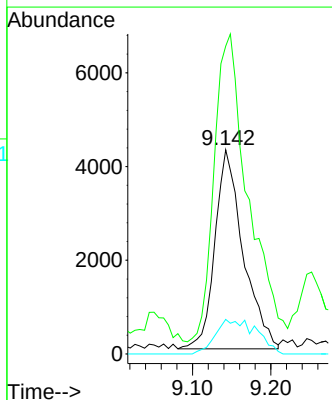
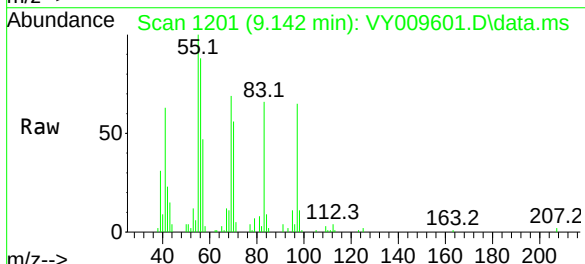
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

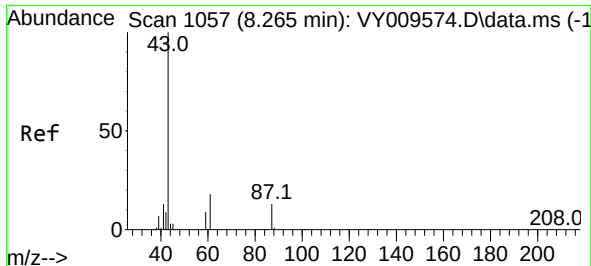
Tgt Ion:117 Resp: 24684
Ion Ratio Lower Upper
117 100
119 5.4 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: 2.044 ug/l
RT: 9.142 min Scan# 1201
Delta R.T. -0.037 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 83 Resp: 10705
Ion Ratio Lower Upper
83 100
55 144.5 66.5 99.7#
98 17.4 37.9 56.9#

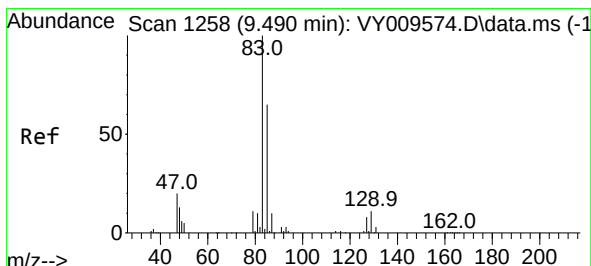
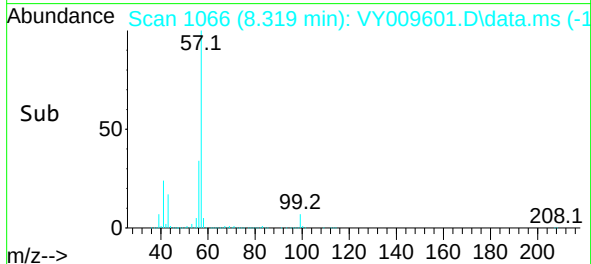
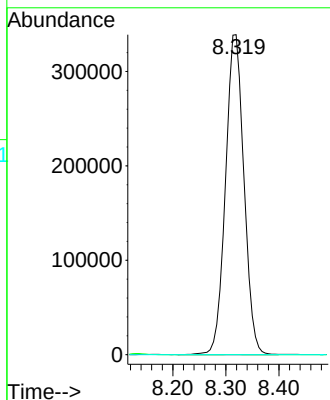
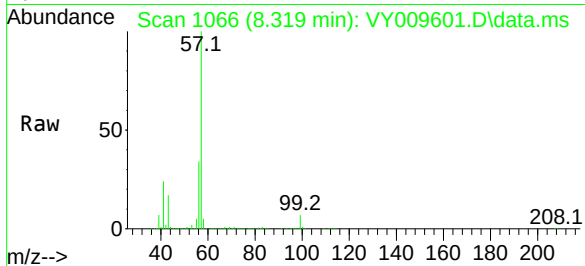




#43
Isopropyl Acetate
Concen: 188.995 ug/l
RT: 8.319 min Scan# 1066
Delta R.T. 0.055 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

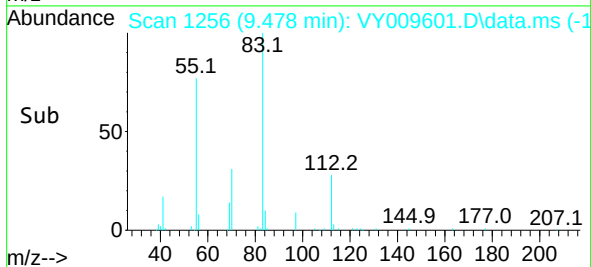
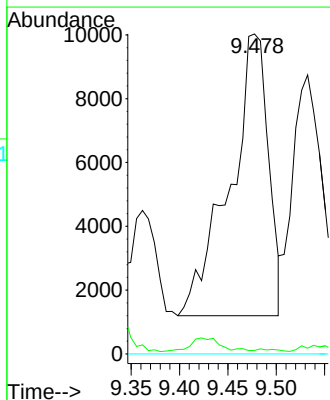
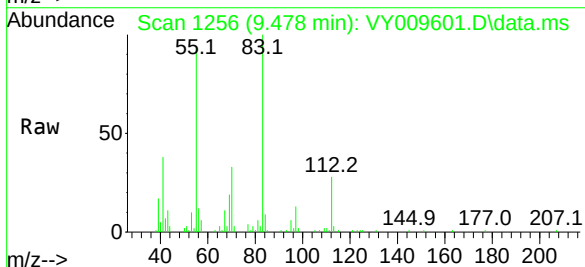
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

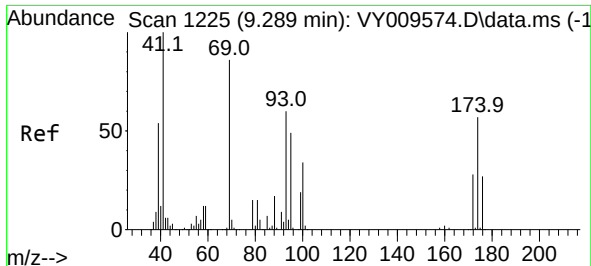
Tgt Ion: 43 Resp: 818696
Ion Ratio Lower Upper
43 100
61 0.1 20.2 30.2#
87 0.0 8.9 13.3#



#47
Bromodichloromethane
Concen: 5.933 ug/l
RT: 9.478 min Scan# 1256
Delta R.T. -0.012 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 83 Resp: 24638
Ion Ratio Lower Upper
83 100
85 0.0 51.9 77.9#
127 0.0 6.6 10.0#

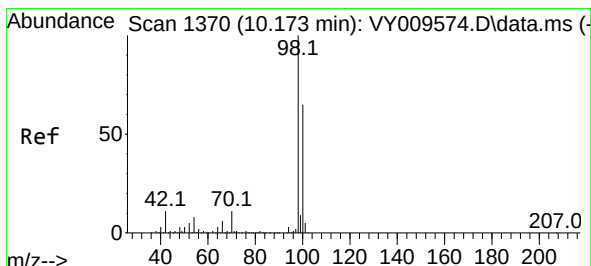
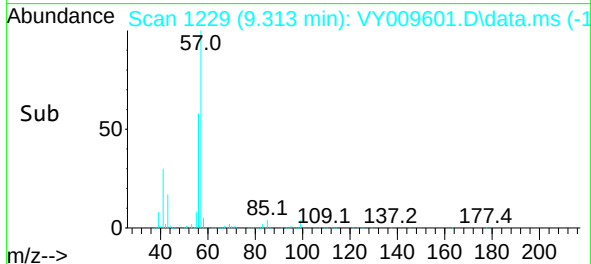
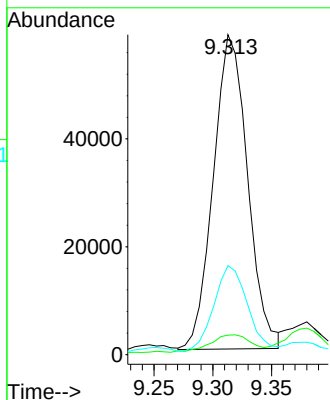
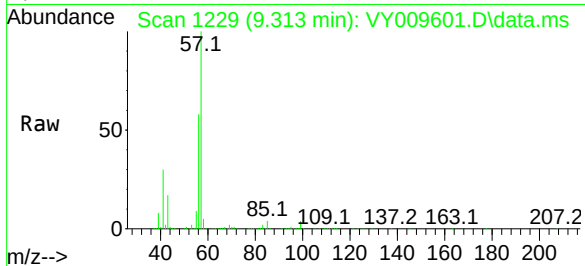




#48
Methyl methacrylate
Concen: 61.834 ug/l
RT: 9.313 min Scan# 11
Delta R.T. 0.024 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

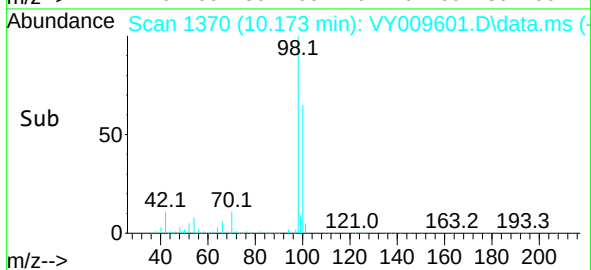
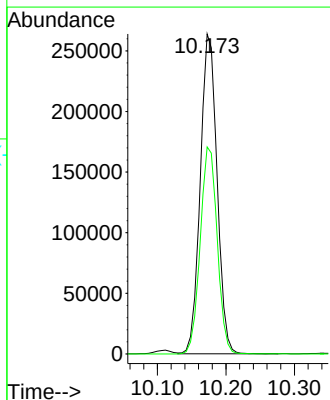
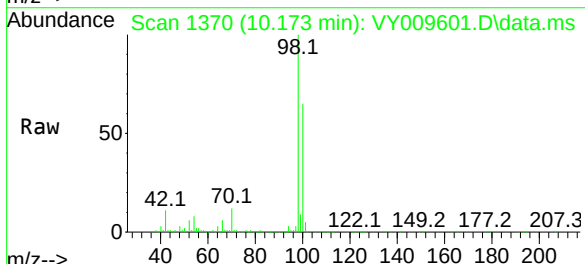
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

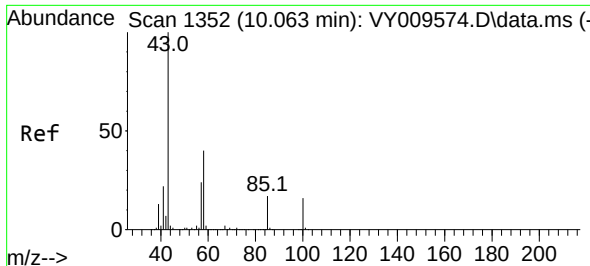
Tgt Ion: 41 Resp: 118343
Ion Ratio Lower Upper
41 100
69 6.5 58.2 87.2#
39 27.4 47.4 71.0#



#50
Toluene-d8
Concen: 40.626 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.000 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 98 Resp: 448927
Ion Ratio Lower Upper
98 100
100 65.8 50.2 75.2

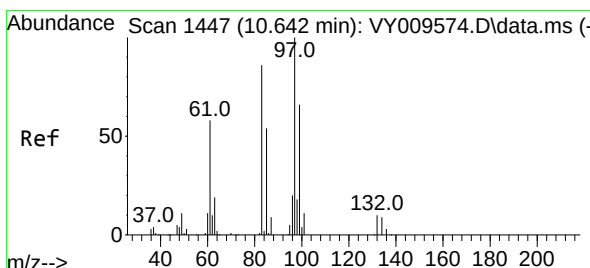
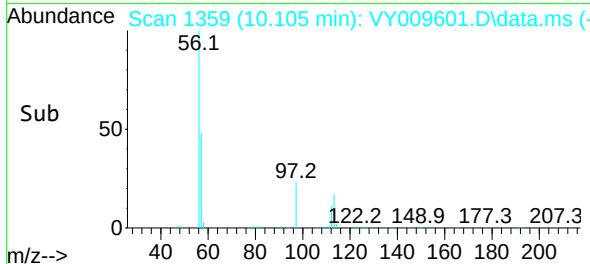
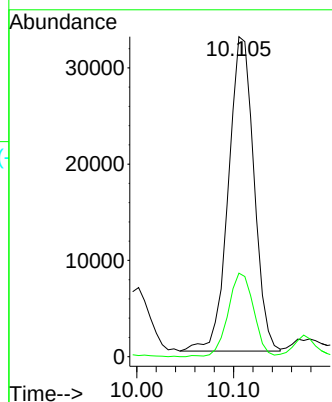
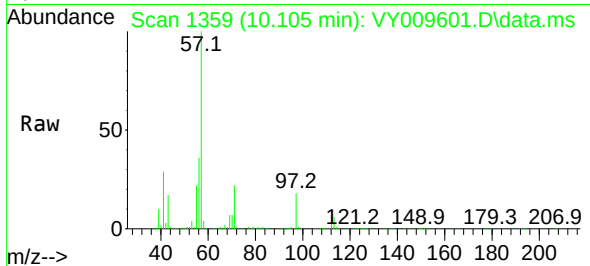




#51
4-Methyl-2-Pentanone
Concen: 26.718 ug/l
RT: 10.105 min Scan# 11
Delta R.T. 0.043 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

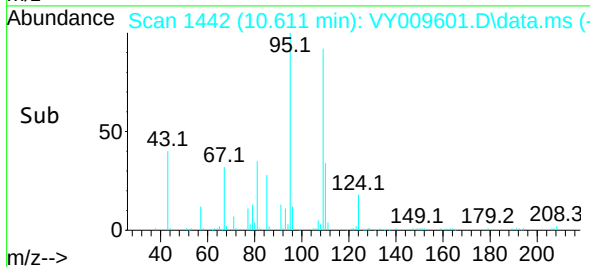
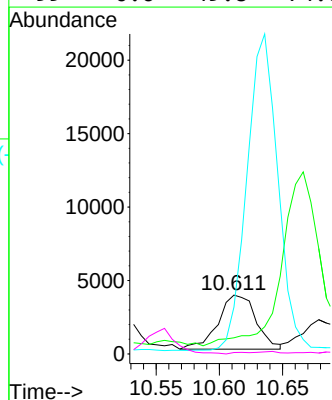
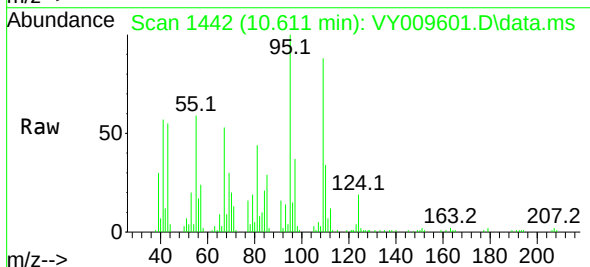
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

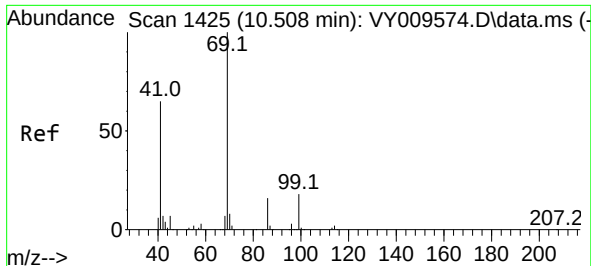
Tgt Ion: 43 Resp: 60095
Ion Ratio Lower Upper
43 100
58 26.4 28.1 42.1#



#55
1,1,2-Trichloroethane
Concen: 3.080 ug/l
RT: 10.611 min Scan# 1442
Delta R.T. -0.031 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 97 Resp: 7681
Ion Ratio Lower Upper
97 100
83 7.9 69.8 104.8#
85 79.9 44.3 66.5#
99 0.6 49.8 74.6#

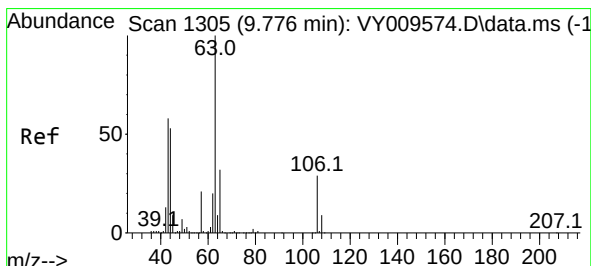
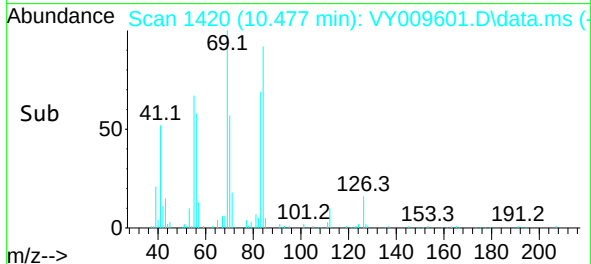
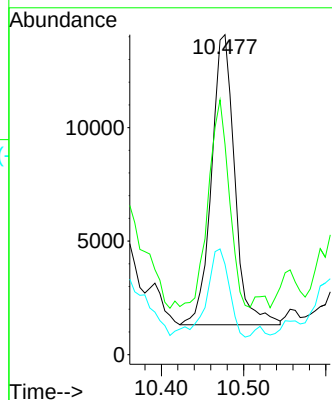
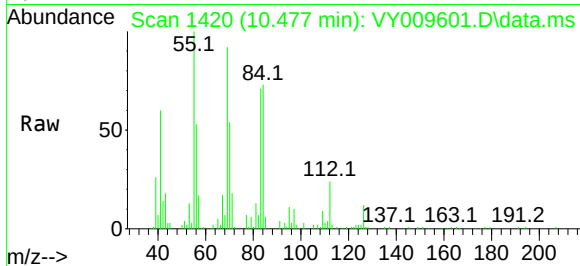




#56
Ethyl methacrylate
Concen: 7.881 ug/l
RT: 10.477 min Scan# 1425
Delta R.T. -0.031 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

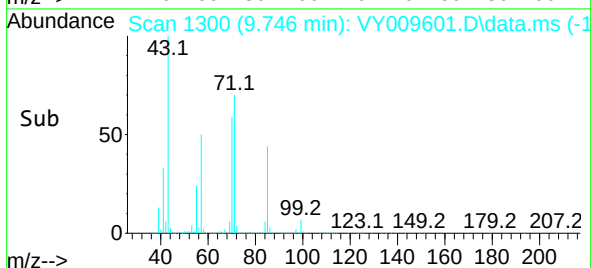
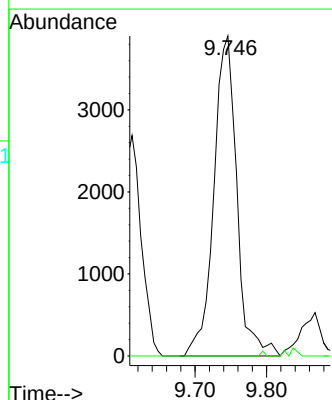
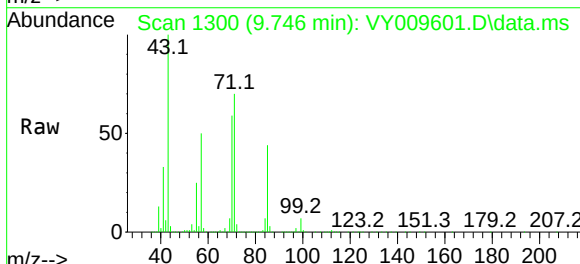
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

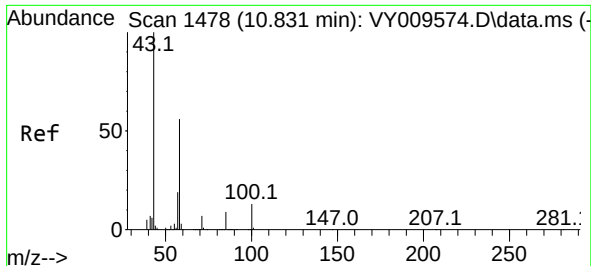
Tgt Ion: 69 Resp: 25150
Ion Ratio Lower Upper
69 100
41 66.3 63.4 95.0
39 30.9 35.8 53.8#



#58
2-Chloroethyl Vinyl ether
Concen: 32.769 ug/l
RT: 9.746 min Scan# 1300
Delta R.T. -0.030 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 63 Resp: 8721
Ion Ratio Lower Upper
63 100
106 0.0 21.5 32.3#

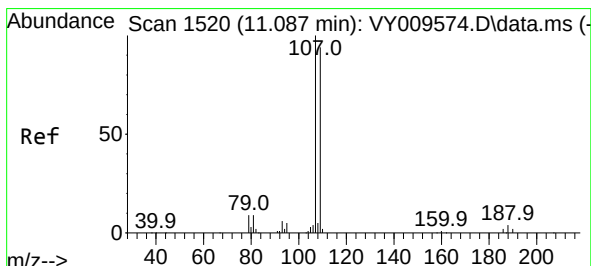
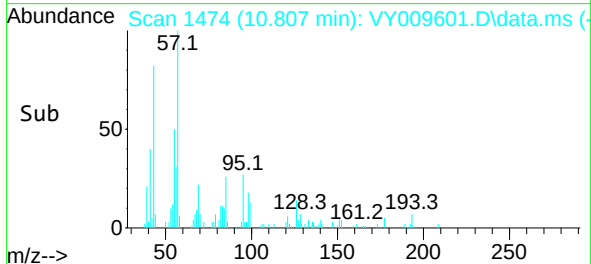
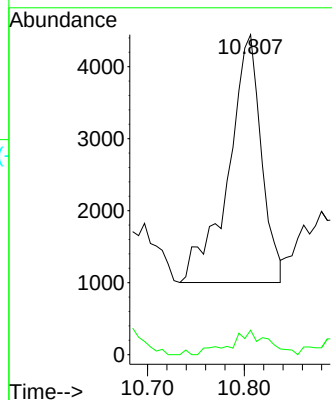
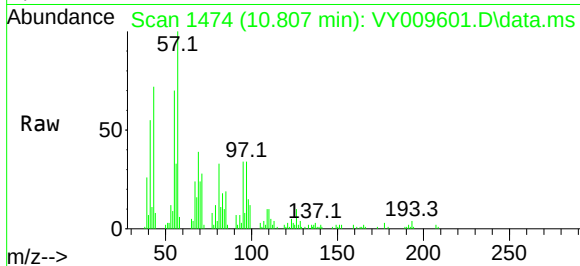




#59
2-Hexanone
Concen: 5.241 ug/l
RT: 10.807 min Scan# 1478
Delta R.T. -0.025 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

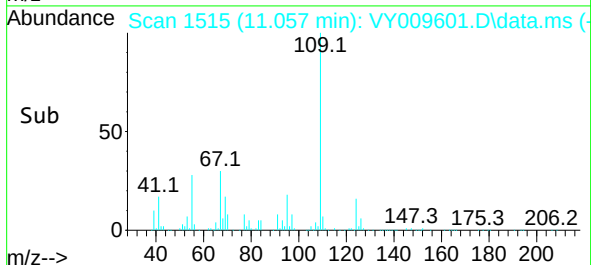
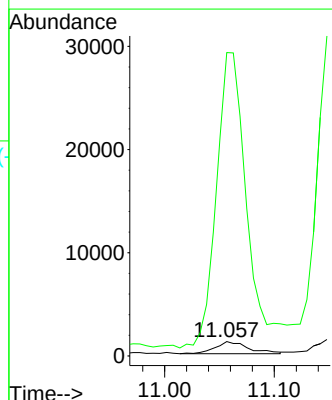
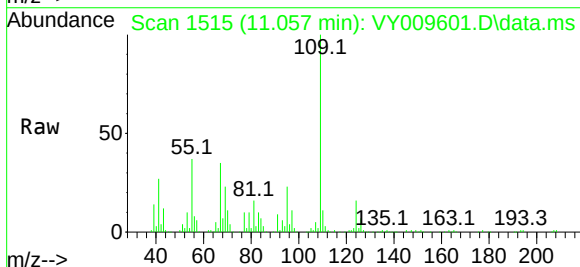
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

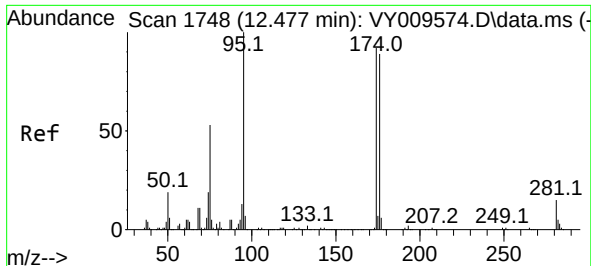
Tgt Ion: 43 Resp: 8199
Ion Ratio Lower Upper
43 100
58 9.2 24.4 73.4#



#61
1,2-Dibromoethane
Concen: 1.030 ug/l
RT: 11.057 min Scan# 1515
Delta R.T. -0.031 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 107 Resp: 2507
Ion Ratio Lower Upper
107 100
109 2205.4 75.4 113.2#

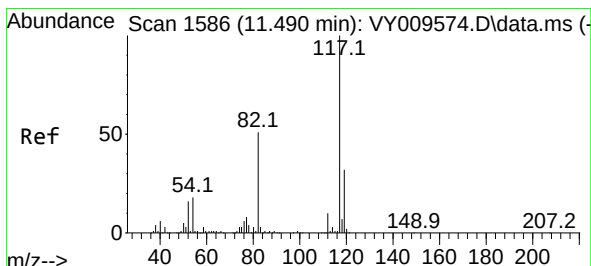
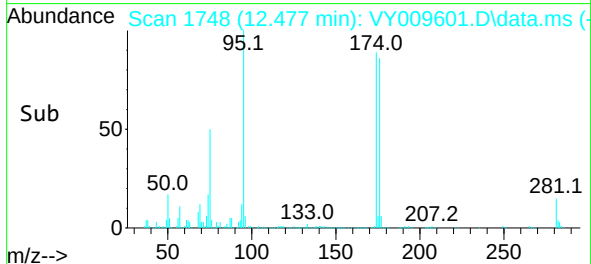
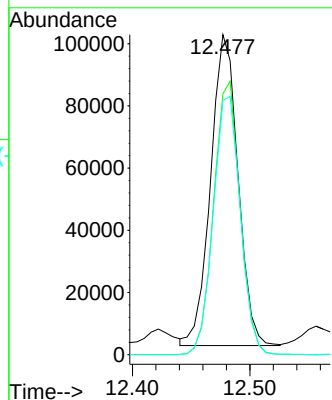
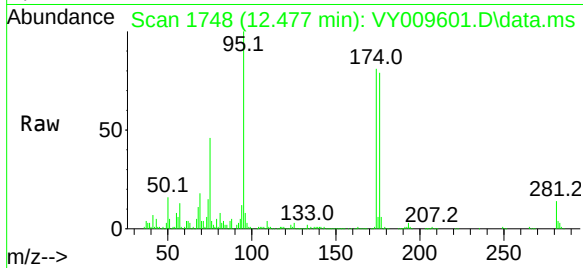




#62
4-Bromofluorobenzene
Concen: 45.152 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

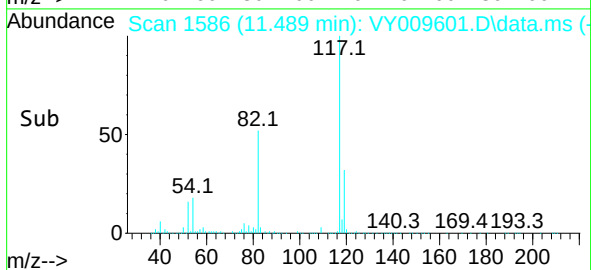
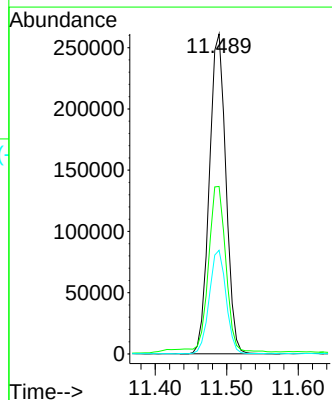
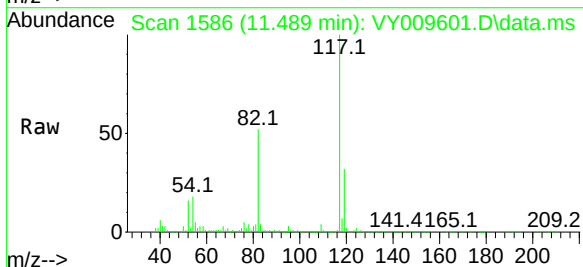
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

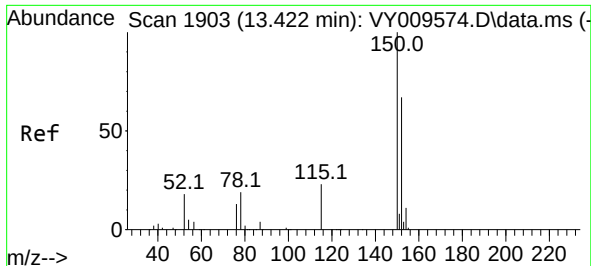
Tgt Ion: 95 Resp: 161671
Ion Ratio Lower Upper
95 100
174 84.7 0.0 177.0
176 82.1 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 117 Resp: 420875
Ion Ratio Lower Upper
117 100
82 51.7 43.0 64.4
119 32.3 25.4 38.0

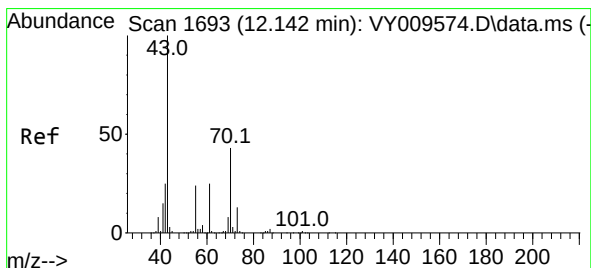
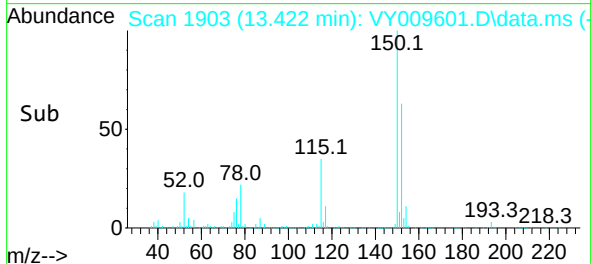
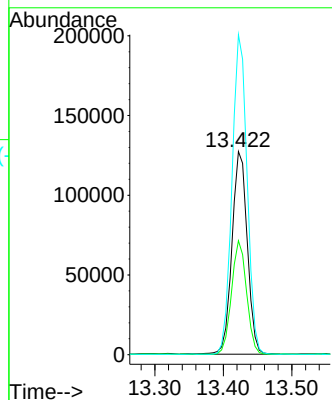
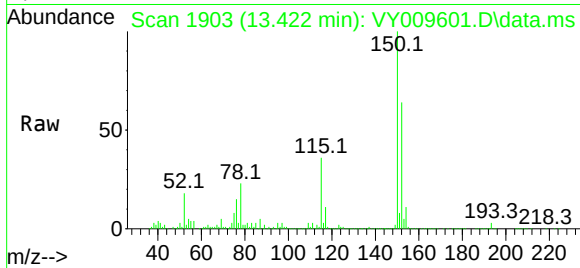




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

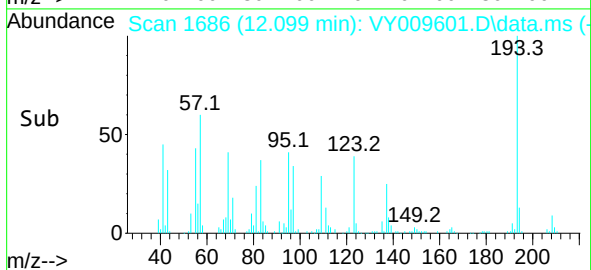
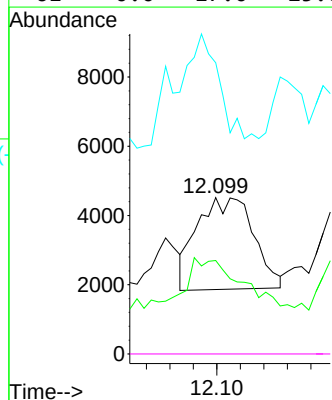
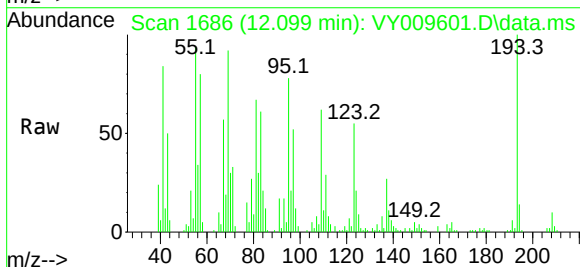
Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

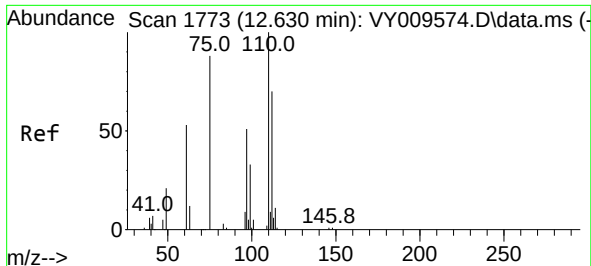
Tgt Ion:152 Resp: 198329
Ion Ratio Lower Upper
152 100
115 54.7 28.2 84.7
150 154.5 0.0 347.6



#74
N-ethyl acetate
Concen: 2.426 ug/l
RT: 12.099 min Scan# 1686
Delta R.T. -0.043 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 43 Resp: 8861
Ion Ratio Lower Upper
43 100
70 54.1 28.7 43.1#
55 80.7 17.3 25.9#
61 0.0 17.0 25.6#

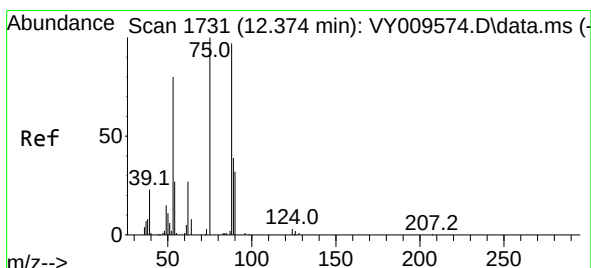
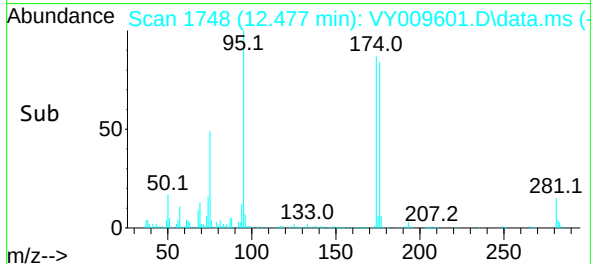
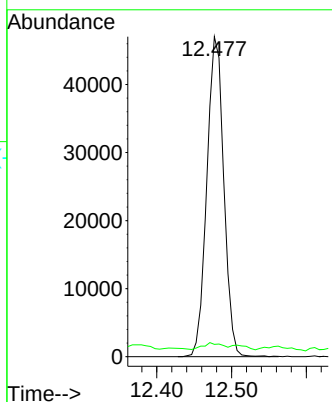
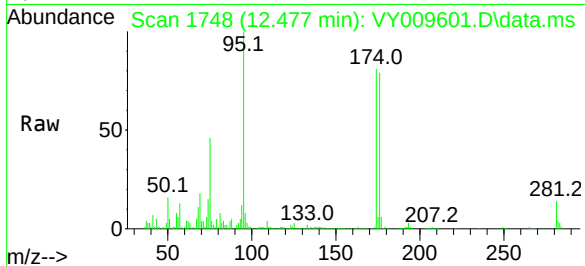




#76
1,2,3-Trichloropropane
Concen: 39.286 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.153 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Instrument :
MSVOA_Y
ClientSampleId :
SED-4-(6-12)

Tgt Ion: 75 Resp: 74224
Ion Ratio Lower Upper
75 100
77 2.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.465 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.103 min
Lab File: VY009601.D
Acq: 19 Jul 2022 19:47

Tgt Ion: 75 Resp: 74224
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 0.3 37.0 55.4#

