

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120722\
 Data File : VY011728.D
 Acq On : 07 Dec 2022 13:07
 Operator : KP/MD
 Sample : N5897-06
 Misc : 5.30g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 21G4

Quant Time: Dec 08 07:56:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y111822S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 19 22:37:14 2022
 Response via : Initial Calibration

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

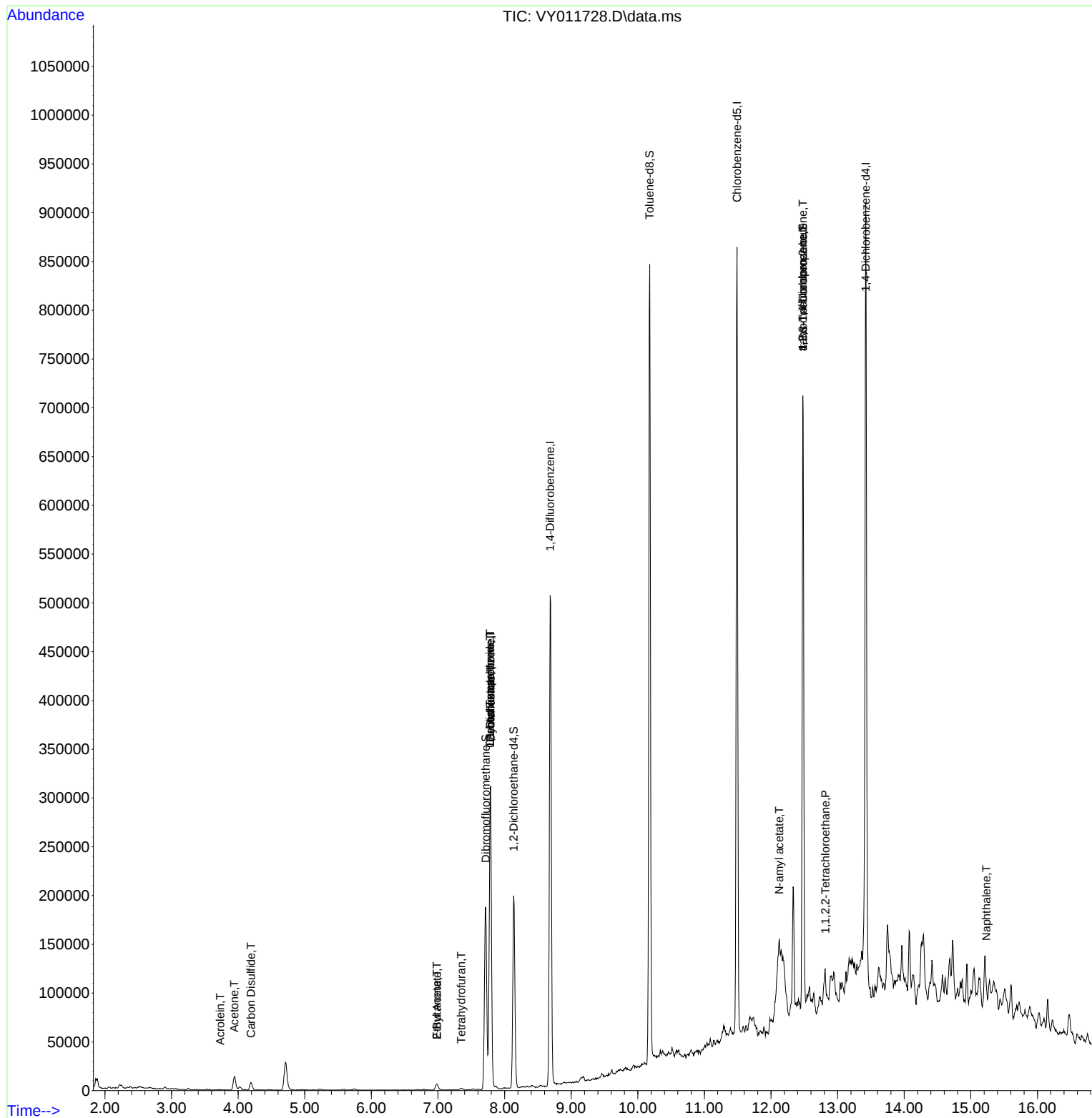
Internal Standards						
1) Pentafluorobenzene	7.789	168	241423	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	433892	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	435326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	192128	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	153059	62.437	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.880%	
35) Dibromofluoromethane	7.716	113	133425	49.953	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.900%	
50) Toluene-d8	10.179	98	548498	56.510	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 113.020%	
62) 4-Bromofluorobenzene	12.477	95	190617	53.116	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 106.240%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.906	85	25	Below Cal	#	43
3) Chloromethane	2.113	50	386	Below Cal	#	44
5) Bromomethane	2.668	94	338	Below Cal	#	56
11) Tert butyl alcohol	4.942	59	728	Below Cal	#	77
13) Acrolein	3.729	56	466	7.209	ug/l #	14
16) Acetone	3.942	43	24204	30.397	ug/l	90
17) Carbon Disulfide	4.192	76	14779	2.513	ug/l	100
18) Methyl Acetate	4.472	43	839	Below Cal	#	78
20) Methylene Chloride	4.710	84	21361	Below Cal		87
25) 2-Butanone	6.984	43	7709	7.367	ug/l	97
29) Tetrahydrofuran	7.350	42	1130	1.912	ug/l #	86
31) Cyclohexane	7.789	56	5522	1.359	ug/l #	1
36) 1,1-Dichloropropene	7.783	75	18309	4.385	ug/l #	52
37) Ethyl Acetate	6.984	43	7709	3.243	ug/l #	72
38) Carbon Tetrachloride	7.783	117	24026	5.144	ug/l #	16
74) N-amyl acetate	12.123	43	4584	1.336	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.818	83	2769	1.011	ug/l	96
76) 1,2,3-Trichloropropane	12.477	75	100575	48.608	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	100575	106.469	ug/l #	8
95) Naphthalene	15.233	128	8115	5.116	ug/l #	83

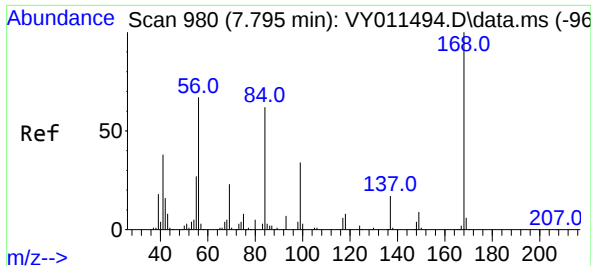
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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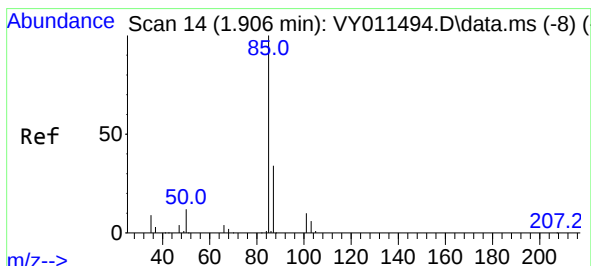
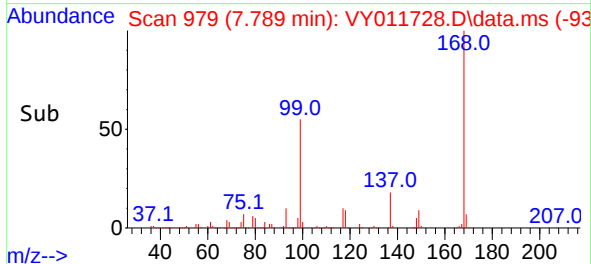
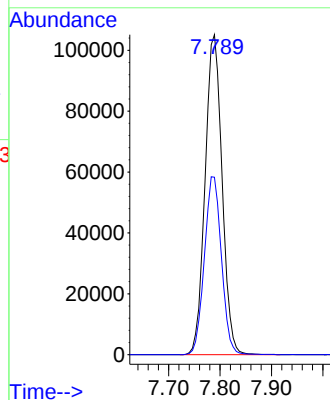
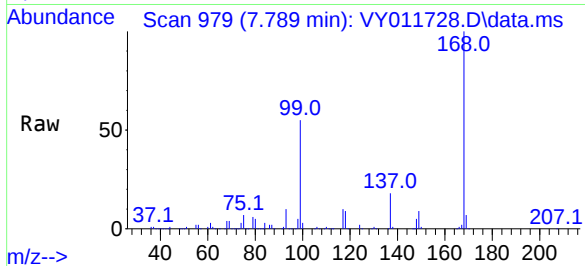




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

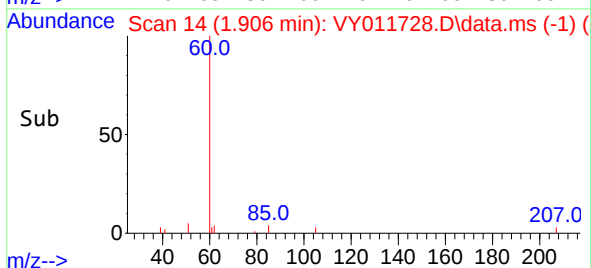
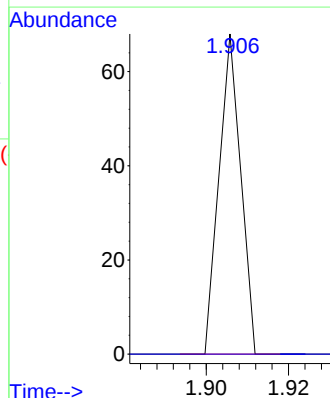
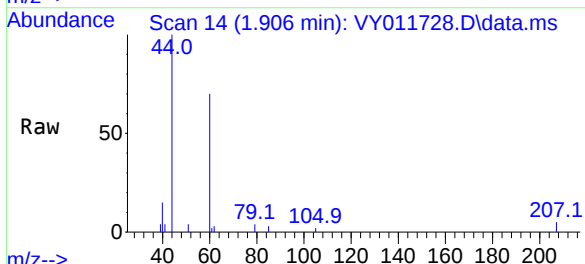
Instrument :
MSVOA_Y
ClientSampleId :
21G4

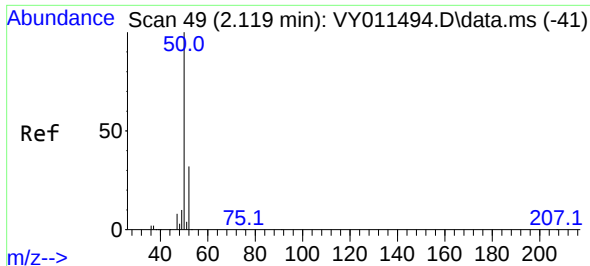
Tgt Ion:168 Resp: 241423
Ion Ratio Lower Upper
168 100
99 55.4 46.9 70.3



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.906 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 85 Resp: 25
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

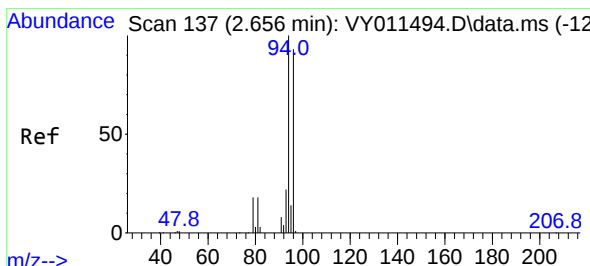
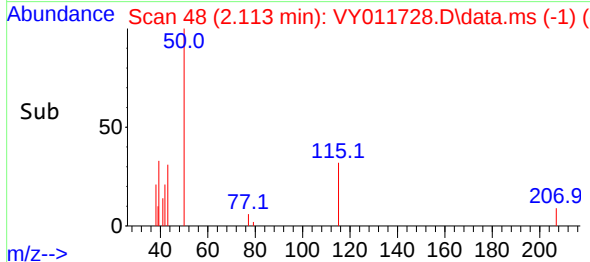
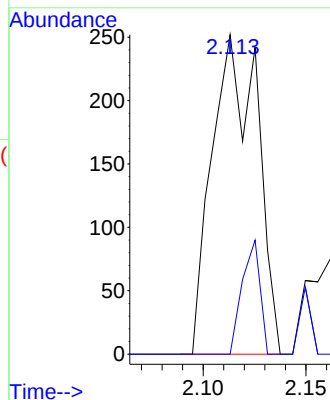
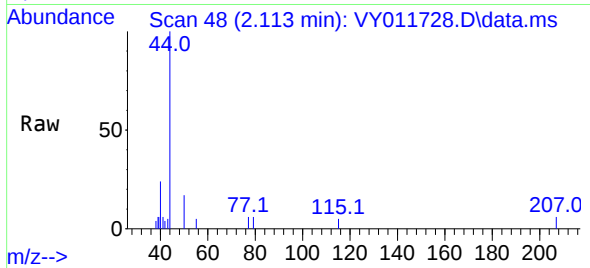




#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

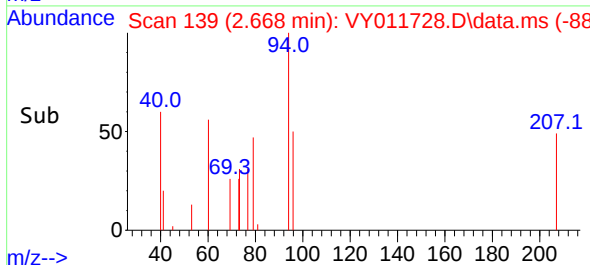
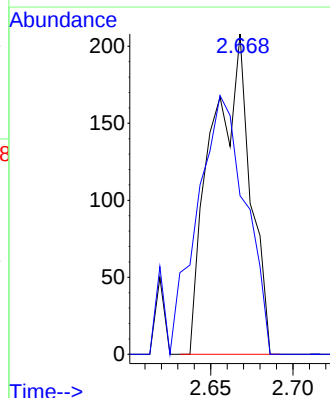
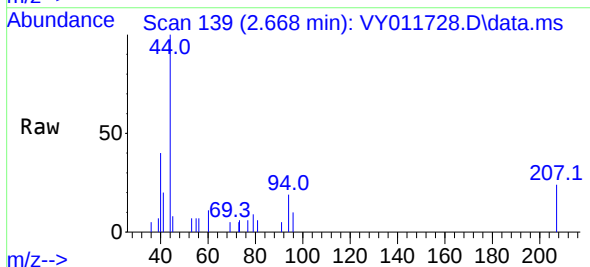
Instrument :
MSVOA_Y
ClientSampleId :
21G4

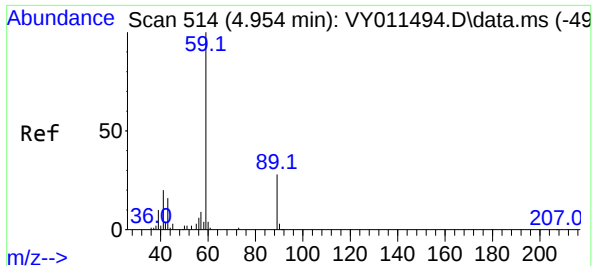
Tgt Ion: 50 Resp: 386
Ion Ratio Lower Upper
50 100
52 0.0 24.6 37.0#



#5
Bromomethane
Concen: Below Cal
RT: 2.668 min Scan# 139
Delta R.T. 0.012 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 94 Resp: 338
Ion Ratio Lower Upper
94 100
96 49.5 73.5 110.3#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.942 min Scan# 514

Delta R.T. -0.012 min

Lab File: VY011728.D

Acq: 07 Dec 2022 13:07

Instrument :

MSVOA_Y

ClientSampleId :

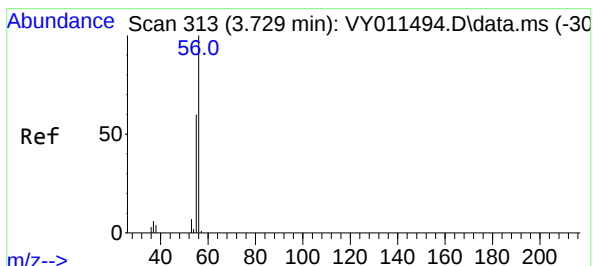
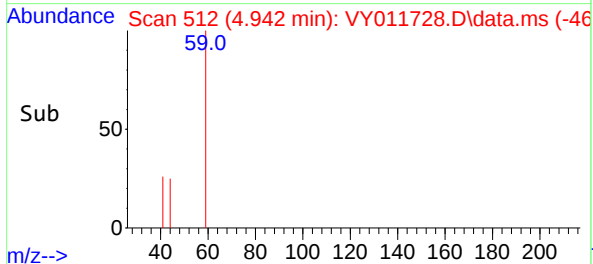
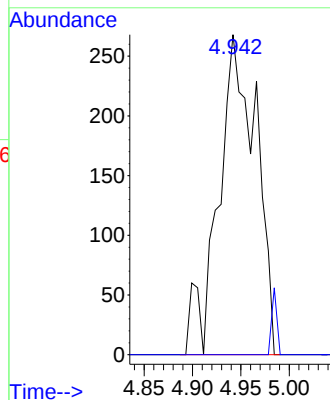
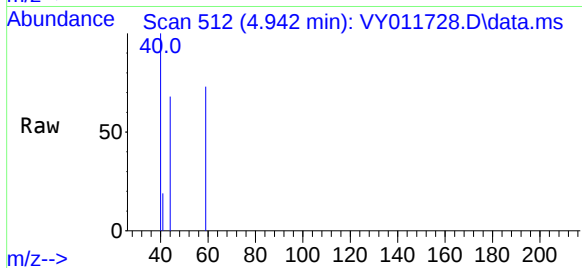
21G4

Tgt Ion: 59 Resp: 728

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#



#13

Acrolein

Concen: 7.209 ug/l

RT: 3.729 min Scan# 313

Delta R.T. -0.000 min

Lab File: VY011728.D

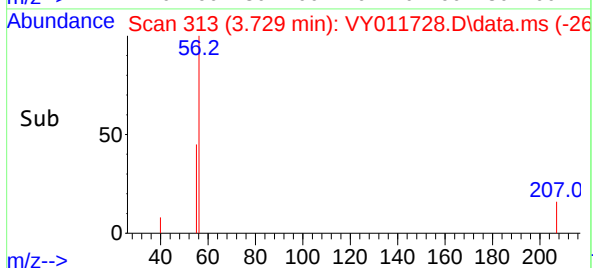
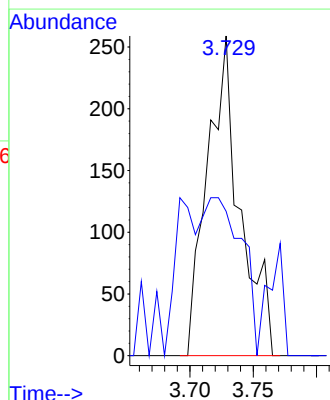
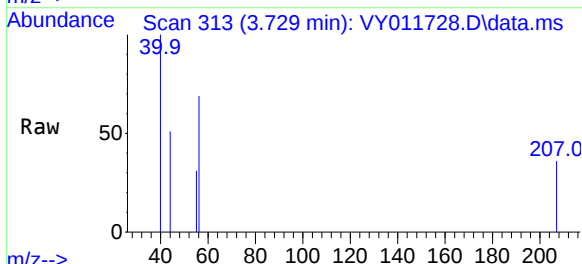
Acq: 07 Dec 2022 13:07

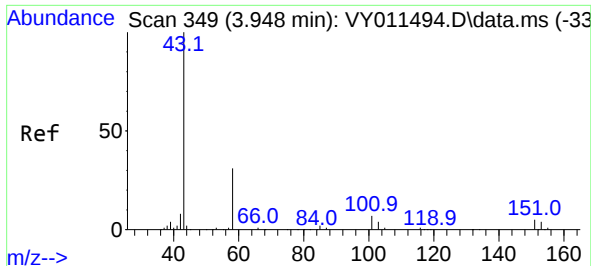
Tgt Ion: 56 Resp: 466

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#

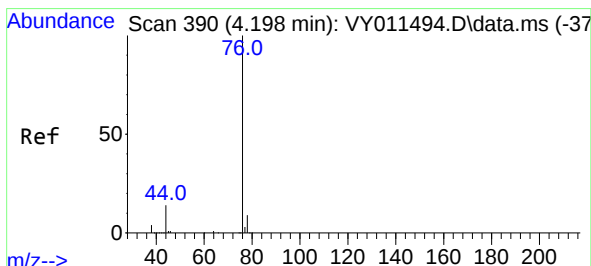
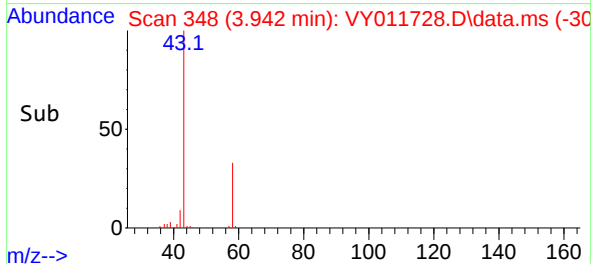
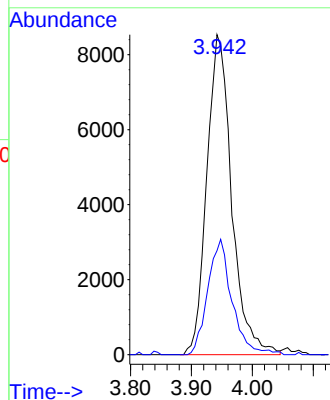
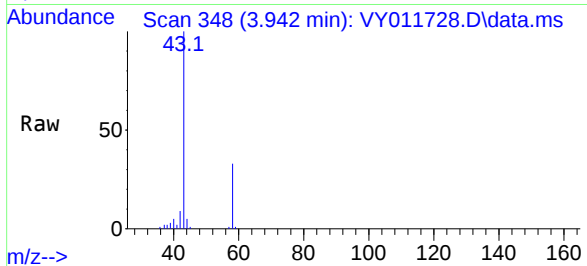




#16
Acetone
Concen: 30.397 ug/l
RT: 3.942 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

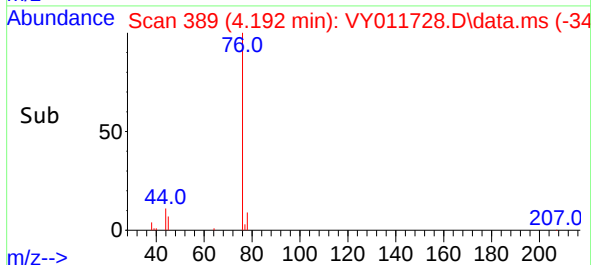
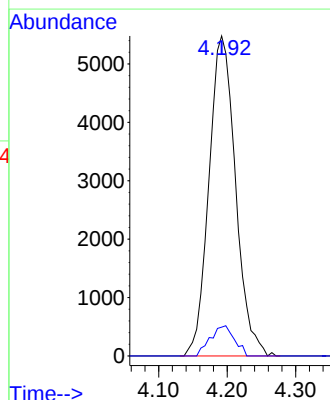
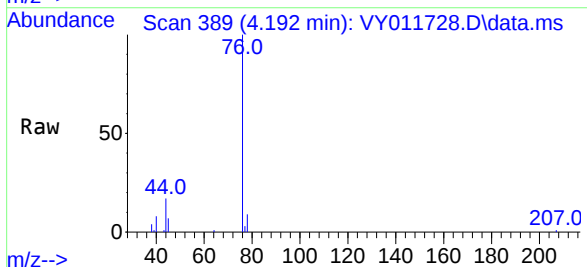
Instrument :
MSVOA_Y
ClientSampleId :
21G4

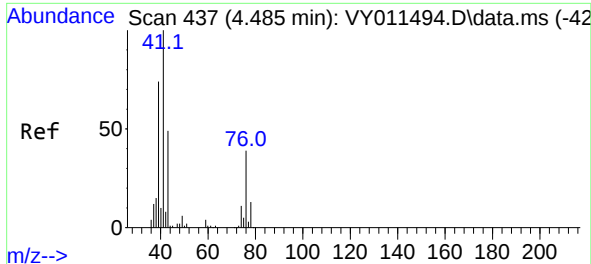
Tgt Ion: 43 Resp: 24204
Ion Ratio Lower Upper
43 100
58 32.5 22.0 33.0



#17
Carbon Disulfide
Concen: 2.513 ug/l
RT: 4.192 min Scan# 389
Delta R.T. -0.006 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 76 Resp: 14779
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.0





#18

Methyl Acetate

Concen: Below Cal

RT: 4.472 min Scan# 41

Delta R.T. -0.013 min

Lab File: VY011728.D

Acq: 07 Dec 2022 13:07

Instrument :

MSVOA_Y

ClientSampleId :

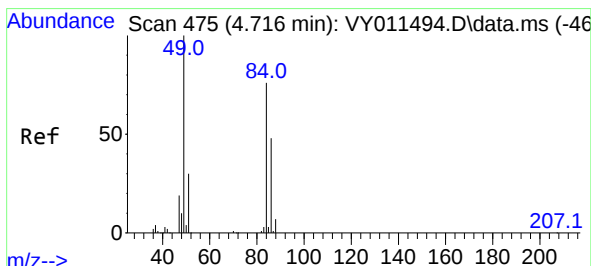
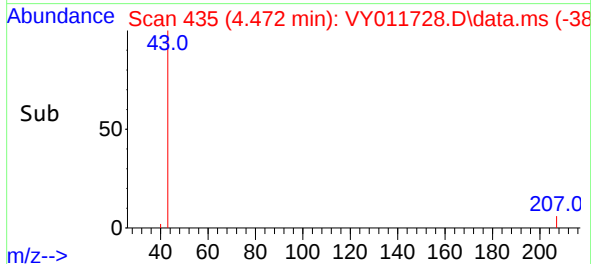
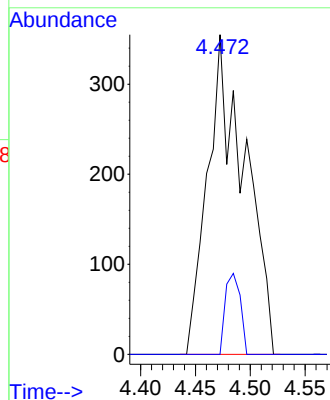
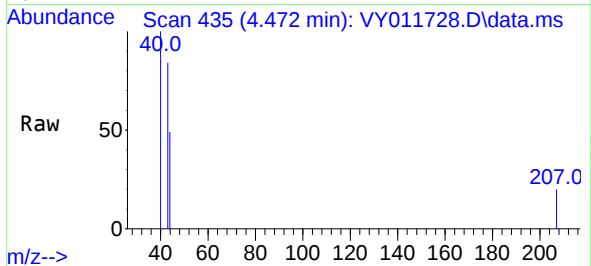
21G4

Tgt Ion: 43 Resp: 839

Ion Ratio Lower Upper

43 100

74 10.3 16.6 24.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY011728.D

Acq: 07 Dec 2022 13:07

Tgt Ion: 84 Resp: 21361

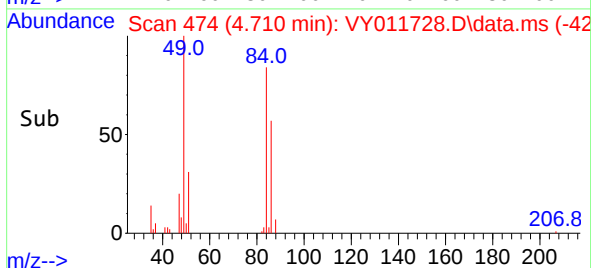
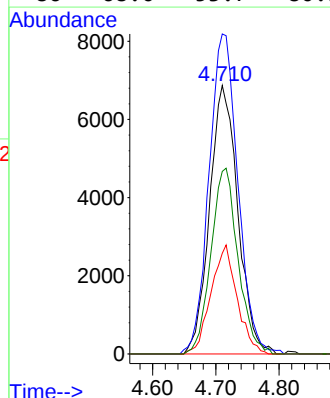
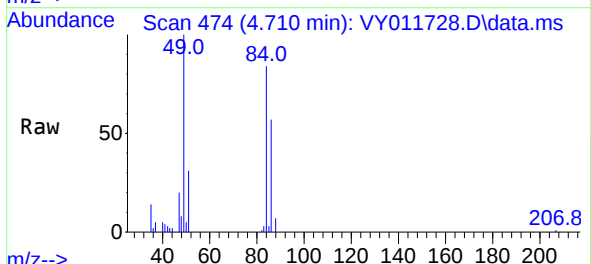
Ion Ratio Lower Upper

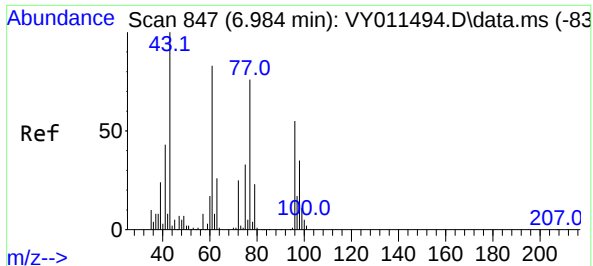
84 100

49 119.2 114.4 171.6

51 37.5 35.3 52.9

86 68.0 53.7 80.5





#25

2-Butanone

Concen: 7.367 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY011728.D

Acq: 07 Dec 2022 13:07

Instrument :

MSVOA_Y

ClientSampleId :

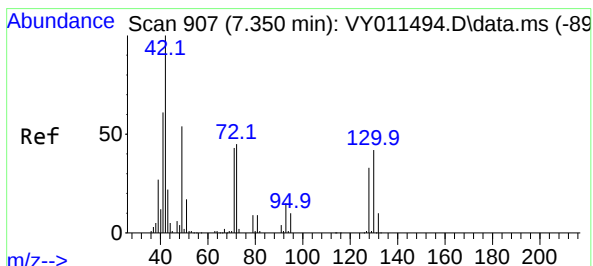
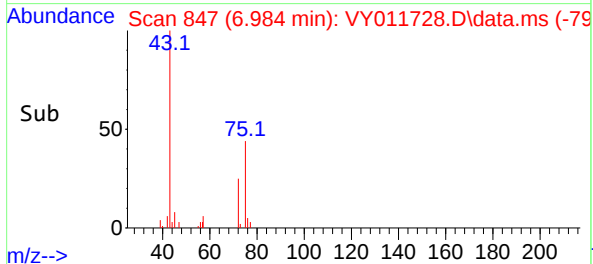
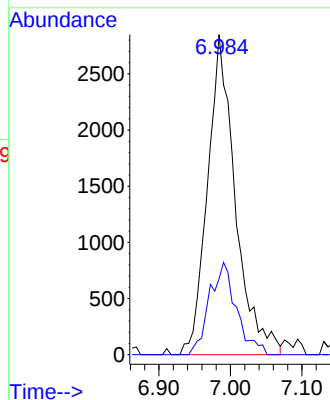
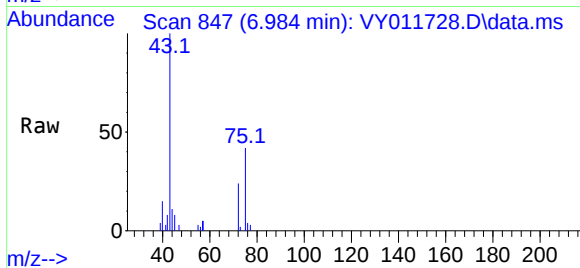
21G4

Tgt Ion: 43 Resp: 7709

Ion Ratio Lower Upper

43 100

72 23.8 17.7 26.5



#29

Tetrahydrofuran

Concen: 1.912 ug/l

RT: 7.350 min Scan# 907

Delta R.T. -0.000 min

Lab File: VY011728.D

Acq: 07 Dec 2022 13:07

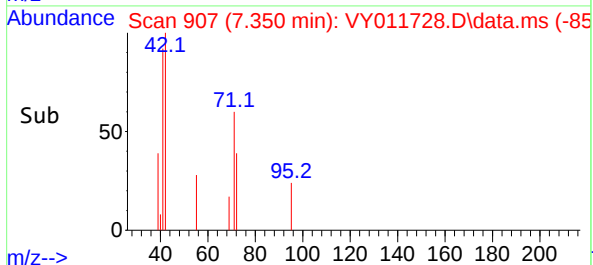
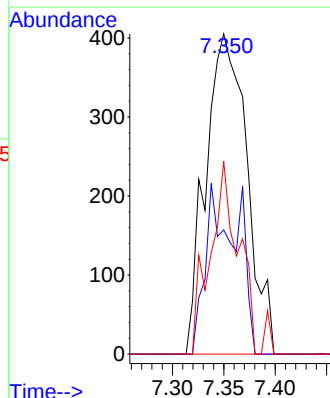
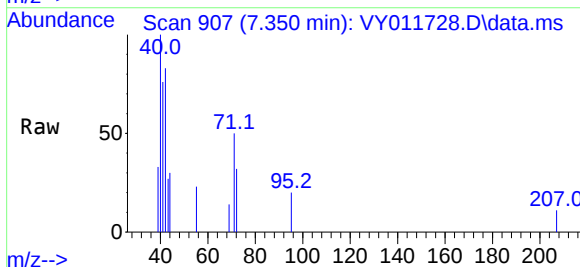
Tgt Ion: 42 Resp: 1130

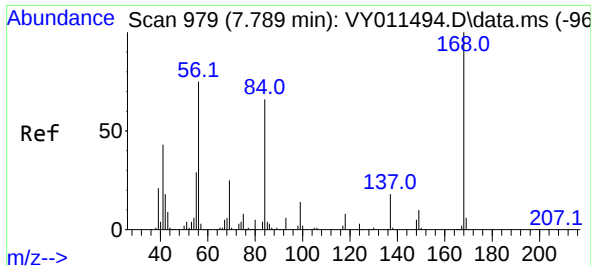
Ion Ratio Lower Upper

42 100

72 26.8 30.3 45.5#

71 41.4 29.0 43.4

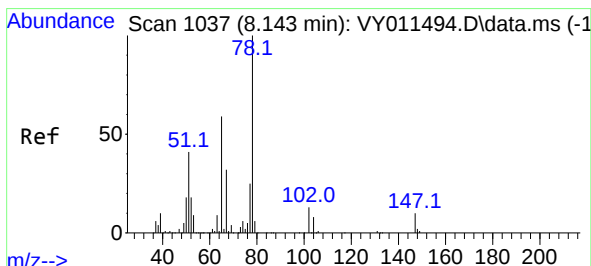
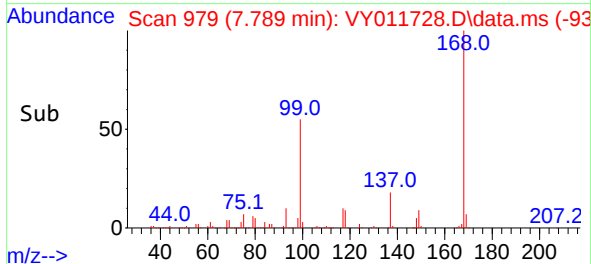
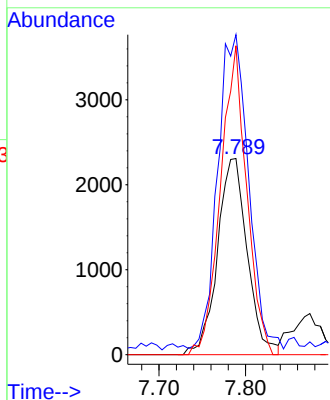
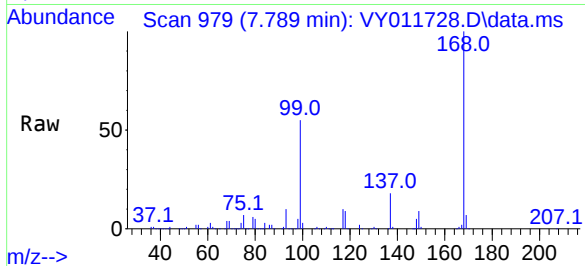




#31
Cyclohexane
Concen: 1.359 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

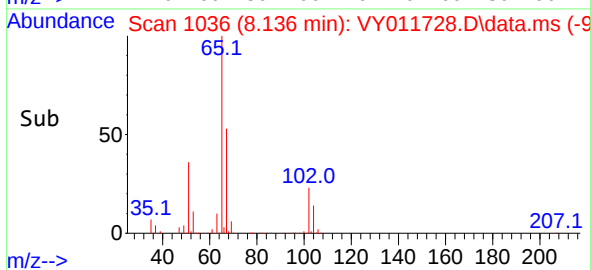
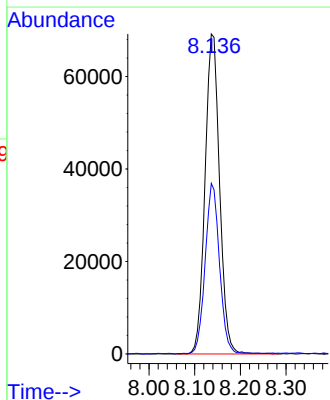
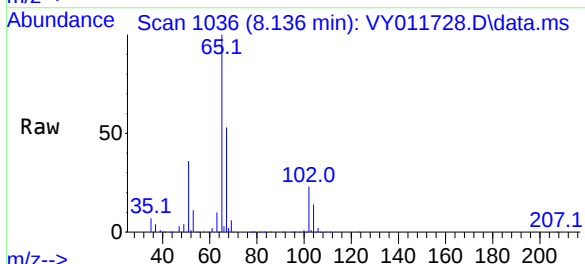
Instrument :
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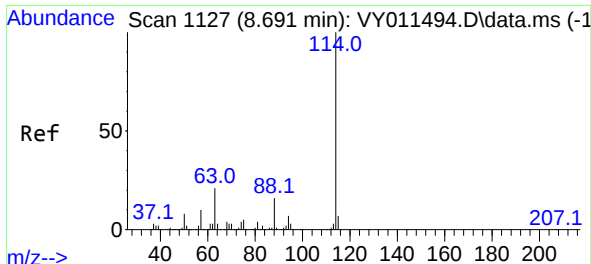
Tgt Ion: 56 Resp: 5522
Ion Ratio Lower Upper
56 100
69 159.3 26.7 40.1#
84 157.5 67.2 100.8#



#33
1,2-Dichloroethane-d4
Concen: 62.437 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.007 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 65 Resp: 153059
Ion Ratio Lower Upper
65 100
67 52.7 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY011728.D

Acq: 07 Dec 2022 13:07

Instrument :

MSVOA_Y

ClientSampleId :

21G4

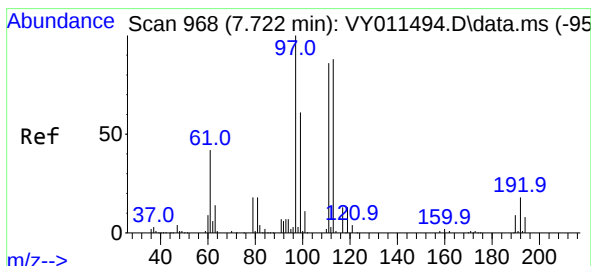
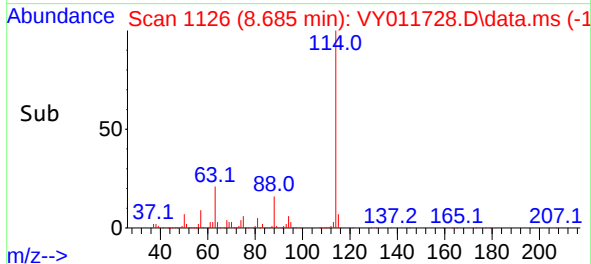
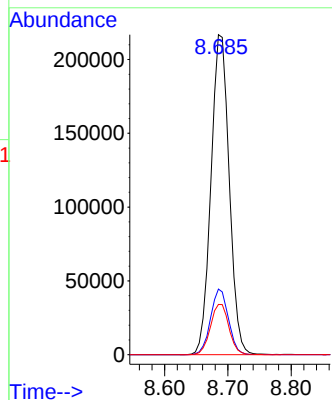
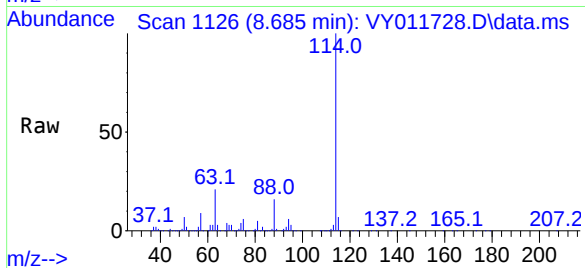
Tgt Ion:114 Resp: 433892

Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.2

88 15.7 0.0 31.8



#35

Dibromofluoromethane

Concen: 49.953 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.006 min

Lab File: VY011728.D

Acq: 07 Dec 2022 13:07

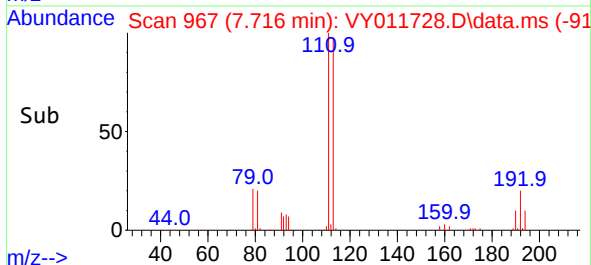
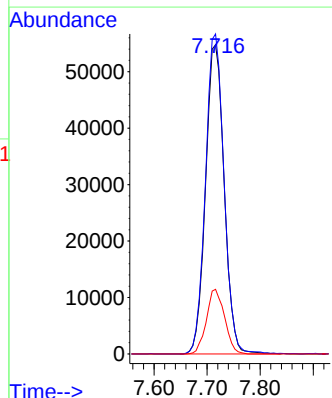
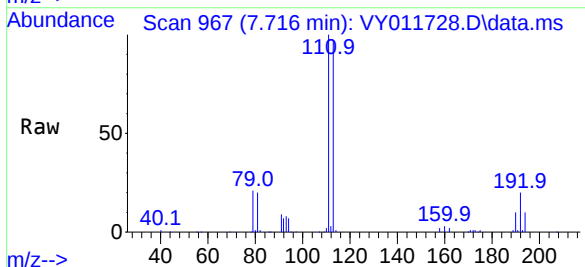
Tgt Ion:113 Resp: 133425

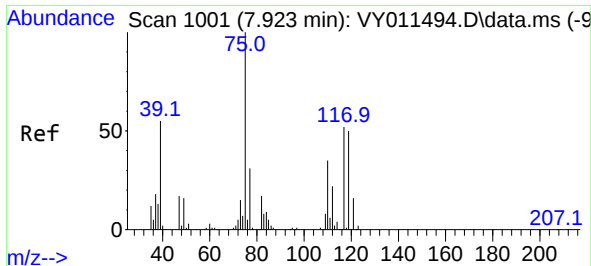
Ion Ratio Lower Upper

113 100

111 103.2 82.6 124.0

192 20.4 17.6 26.4

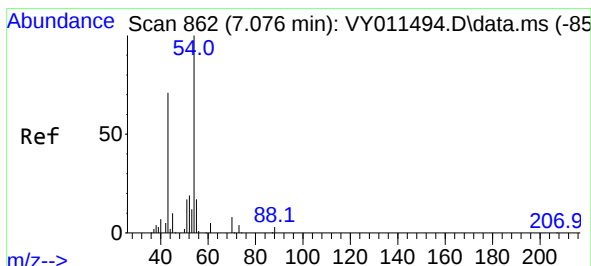
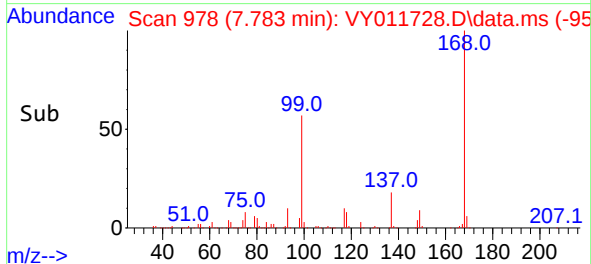
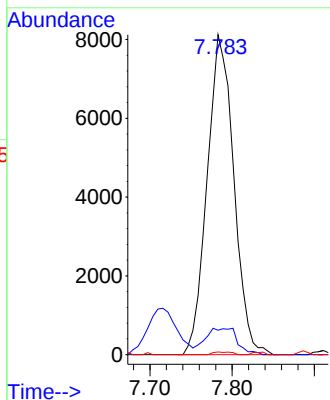
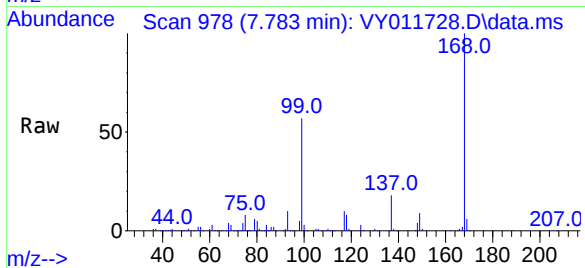




#36
1,1-Dichloropropene
Concen: 4.385 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.140 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

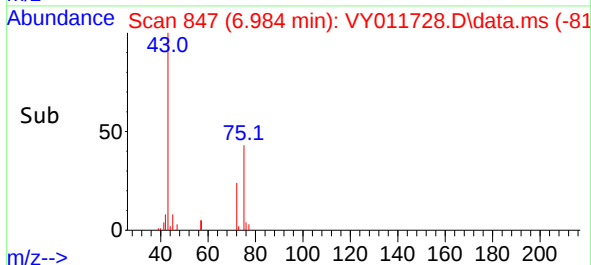
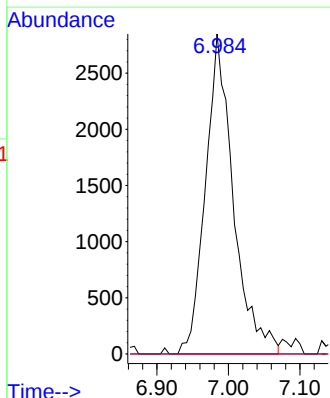
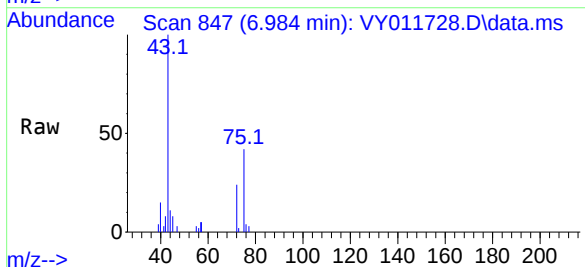
Instrument :
MSVOA_Y
ClientSampleId :
21G4

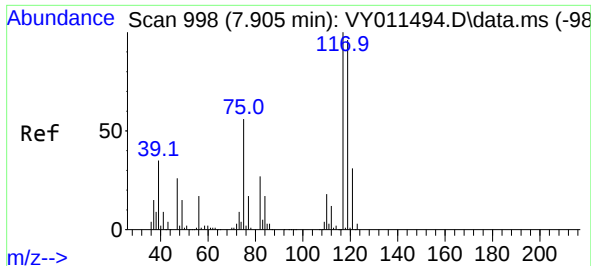
Tgt Ion: 75 Resp: 18309
Ion Ratio Lower Upper
75 100
110 9.9 17.1 51.2#
77 0.6 24.4 36.6#



#37
Ethyl Acetate
Concen: 3.243 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.092 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 43 Resp: 7709
Ion Ratio Lower Upper
43 100
61 0.0 9.7 14.5#
70 0.0 7.1 10.7#

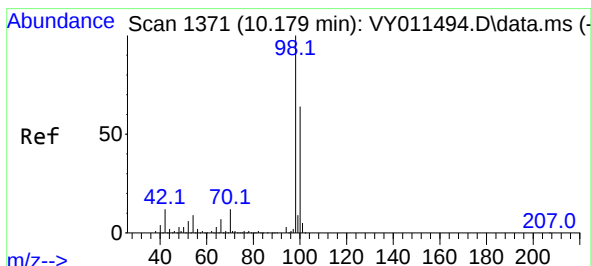
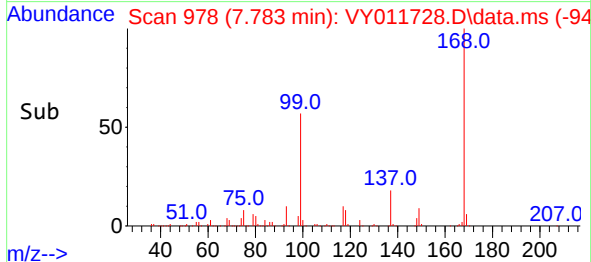
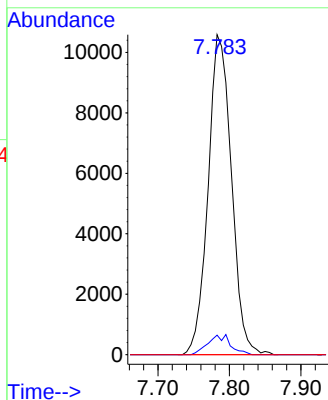
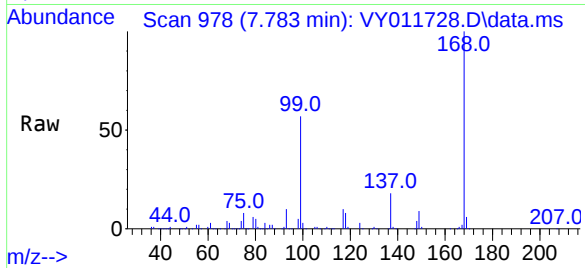




#38
Carbon Tetrachloride
Concen: 5.144 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

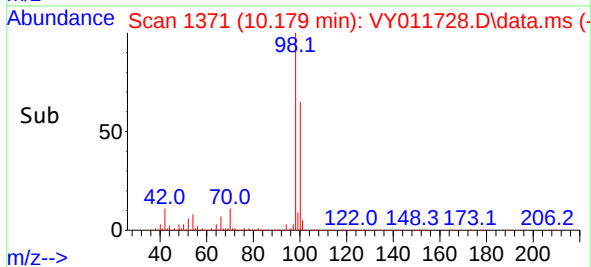
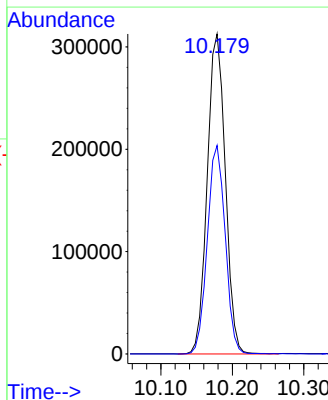
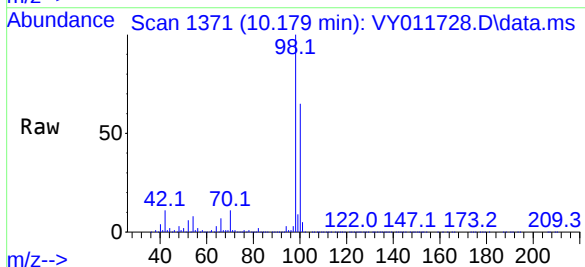
Instrument :
MSVOA_Y
ClientSampleId :
21G4

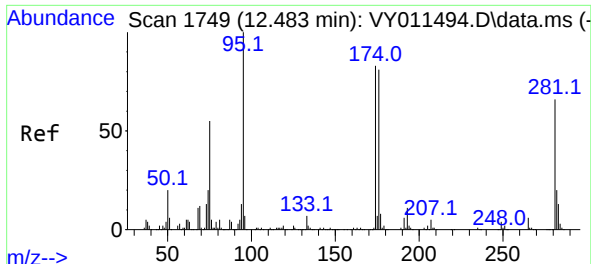
Tgt Ion:117 Resp: 24026
Ion Ratio Lower Upper
117 100
119 6.1 77.9 116.9#
121 0.0 24.8 37.2#



#50
Toluene-d8
Concen: 56.510 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 98 Resp: 548498
Ion Ratio Lower Upper
98 100
100 64.5 50.2 75.2

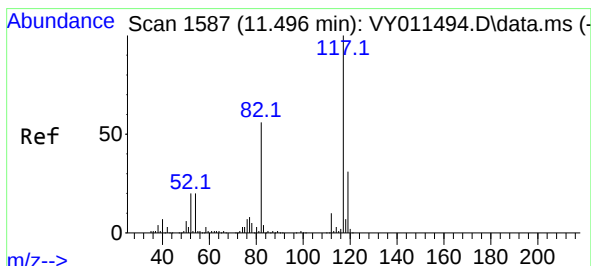
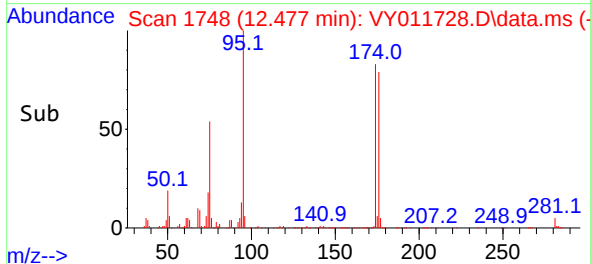
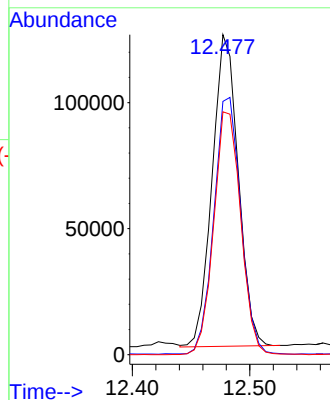
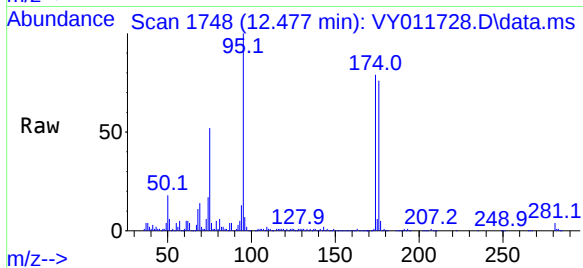




#62
4-Bromofluorobenzene
Concen: 53.116 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

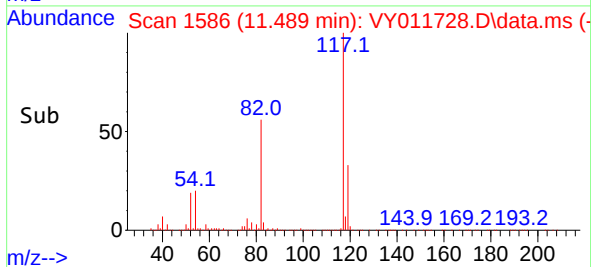
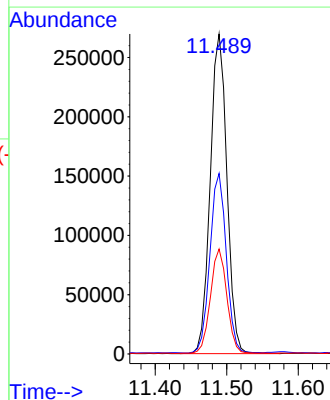
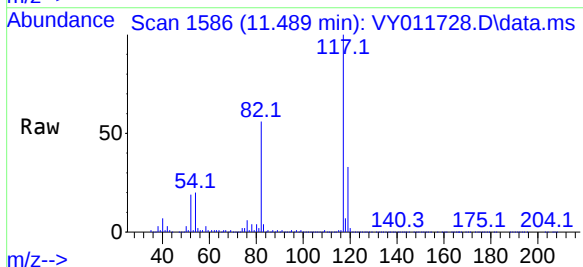
Instrument :
MSVOA_Y
ClientSampleId :
21G4

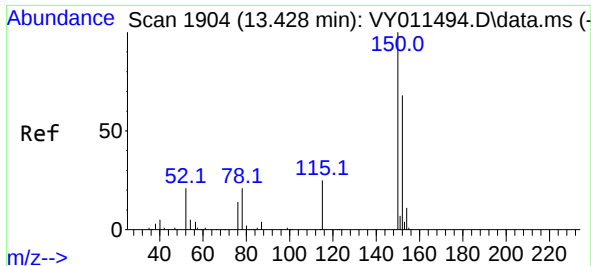
Tgt Ion: 95 Resp: 190617
Ion Ratio Lower Upper
95 100
174 85.0 0.0 177.0
176 80.9 0.0 175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.007 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 117 Resp: 435326
Ion Ratio Lower Upper
117 100
82 56.1 43.0 64.4
119 32.6 25.4 38.0

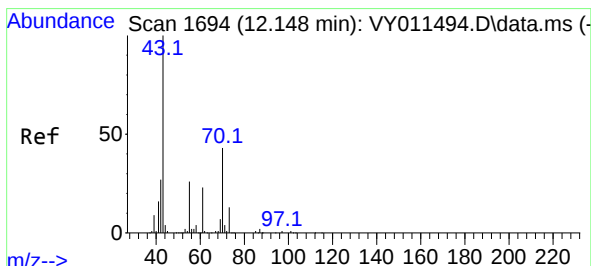
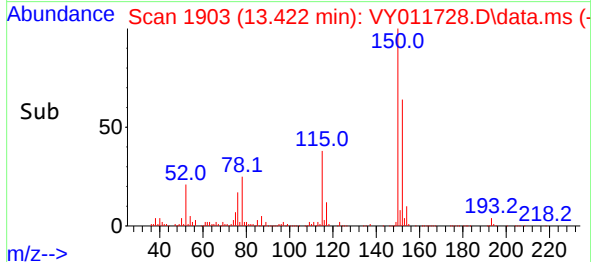
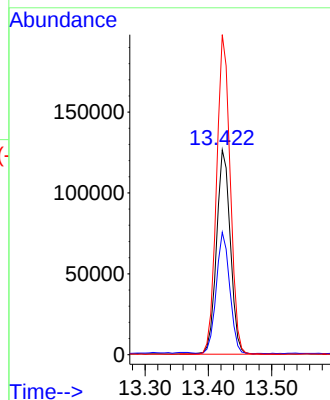
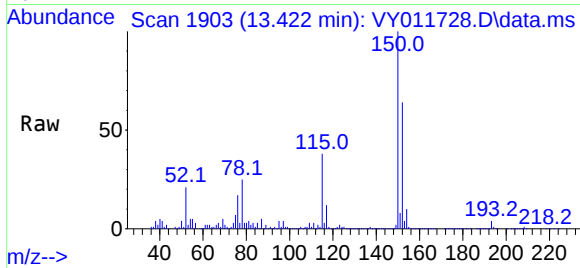




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1904
Delta R.T. -0.006 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

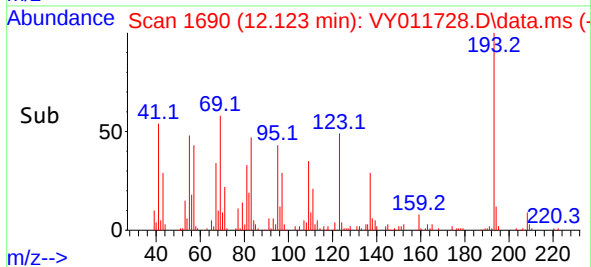
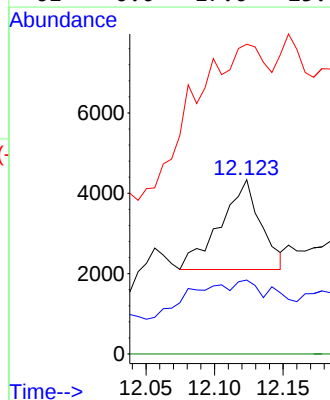
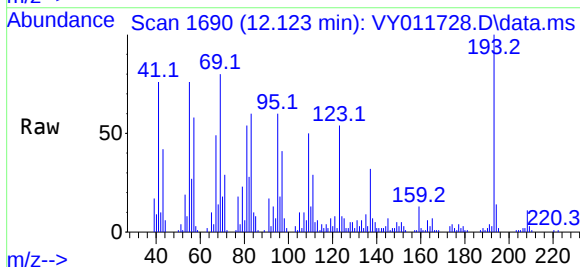
Instrument :
MSVOA_Y
ClientSampleId :
21G4

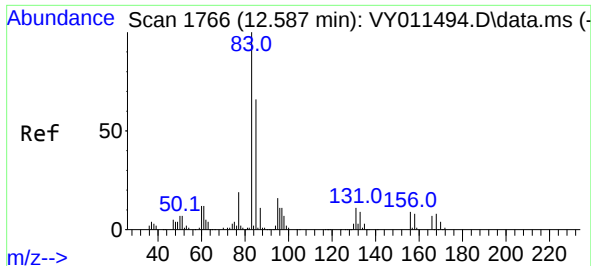
Tgt Ion:152 Resp: 192128
Ion Ratio Lower Upper
152 100
115 57.8 28.2 84.7
150 154.1 0.0 347.6



#74
N-ethyl acetate
Concen: 1.336 ug/l
RT: 12.123 min Scan# 1690
Delta R.T. -0.025 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 43 Resp: 4584
Ion Ratio Lower Upper
43 100
70 71.8 28.7 43.1#
55 373.5 17.3 25.9#
61 0.0 17.0 25.6#

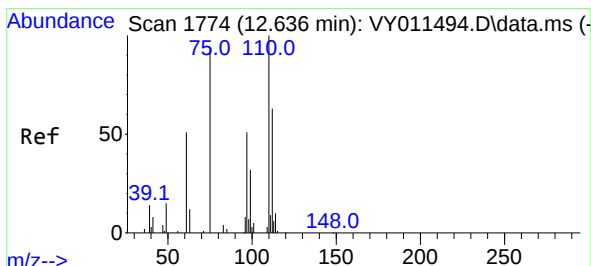
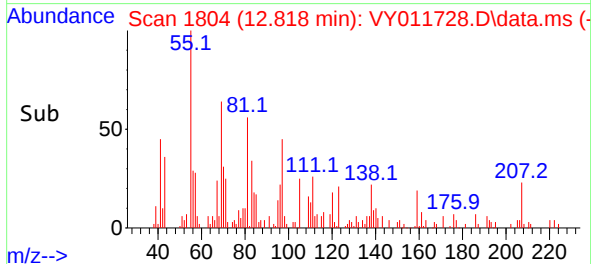
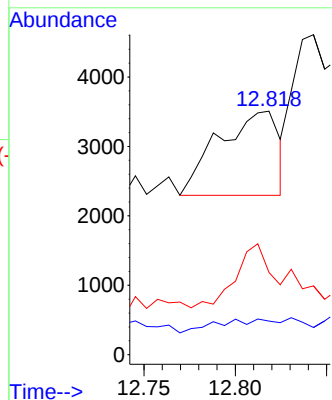
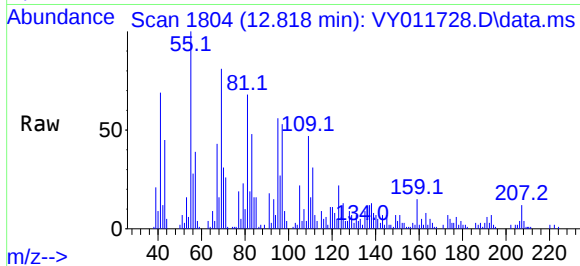




#75
1,1,2,2-Tetrachloroethane
Concen: 1.011 ug/l
RT: 12.818 min Scan# 1766
Delta R.T. 0.231 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

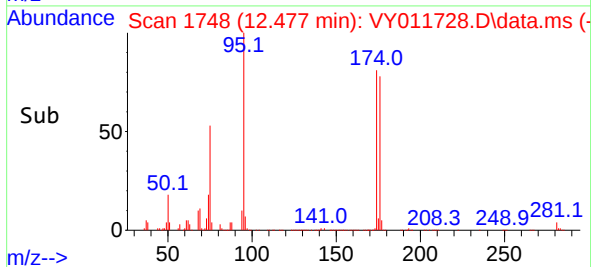
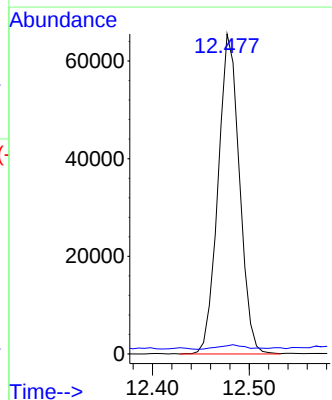
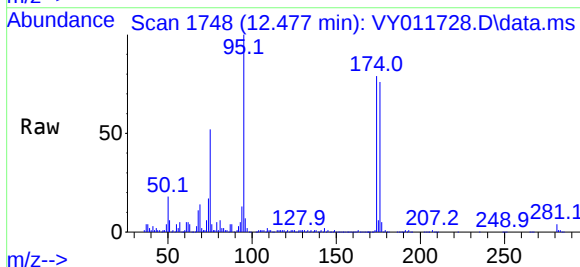
Instrument :
MSVOA_Y
ClientSampleId :
21G4

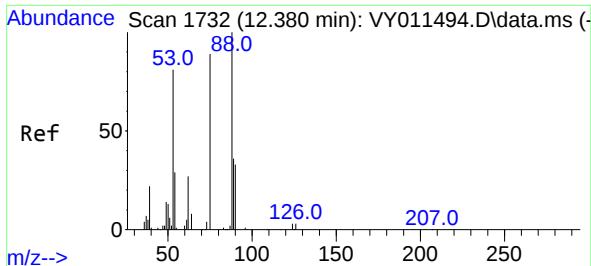
Tgt Ion: 83 Resp: 2769
Ion Ratio Lower Upper
83 100
131 16.6 5.6 16.8
85 63.1 32.3 96.8



#76
1,2,3-Trichloropropane
Concen: 48.608 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.159 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion: 75 Resp: 100575
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#

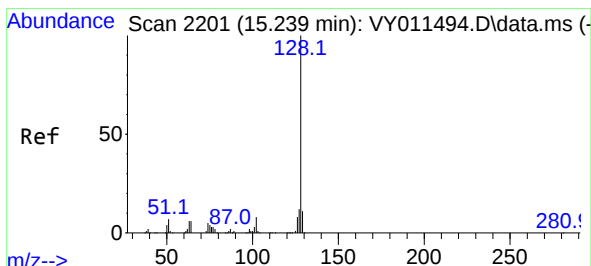
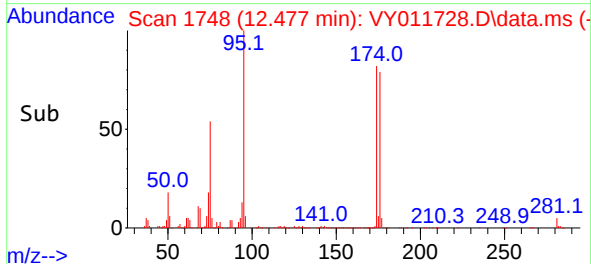
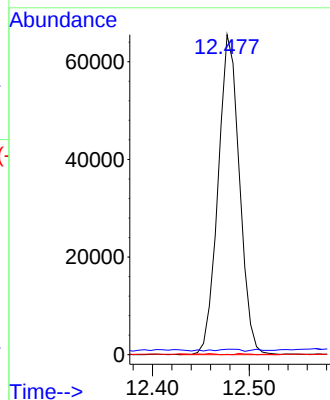
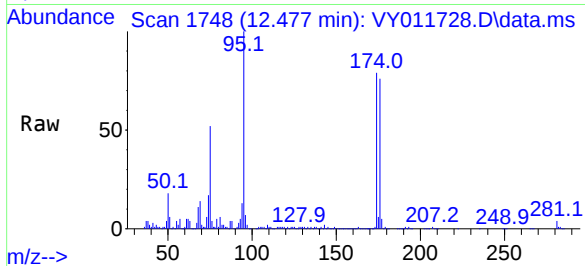




#81
trans-1,4-Dichloro-2-butene
Concen: 106.469 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Instrument :
MSVOA_Y
ClientSampleId :
21G4

Tgt Ion: 75 Resp: 100575
Ion Ratio Lower Upper
75 100
53 0.7 85.3 127.9#
89 0.2 37.0 55.4#



#95
Naphthalene
Concen: 5.116 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.006 min
Lab File: VY011728.D
Acq: 07 Dec 2022 13:07

Tgt Ion:128 Resp: 8115
Ion Ratio Lower Upper
128 100
127 23.2 11.0 16.4#
129 13.6 8.4 12.6#

