

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062023\
 Data File : VY014292.D
 Acq On : 20 Jun 2023 18:40
 Operator : KP/MD
 Sample : 03298-14
 Misc : 7.81g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-TP6-09-10S-4

Quant Time: Jun 21 02:09:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

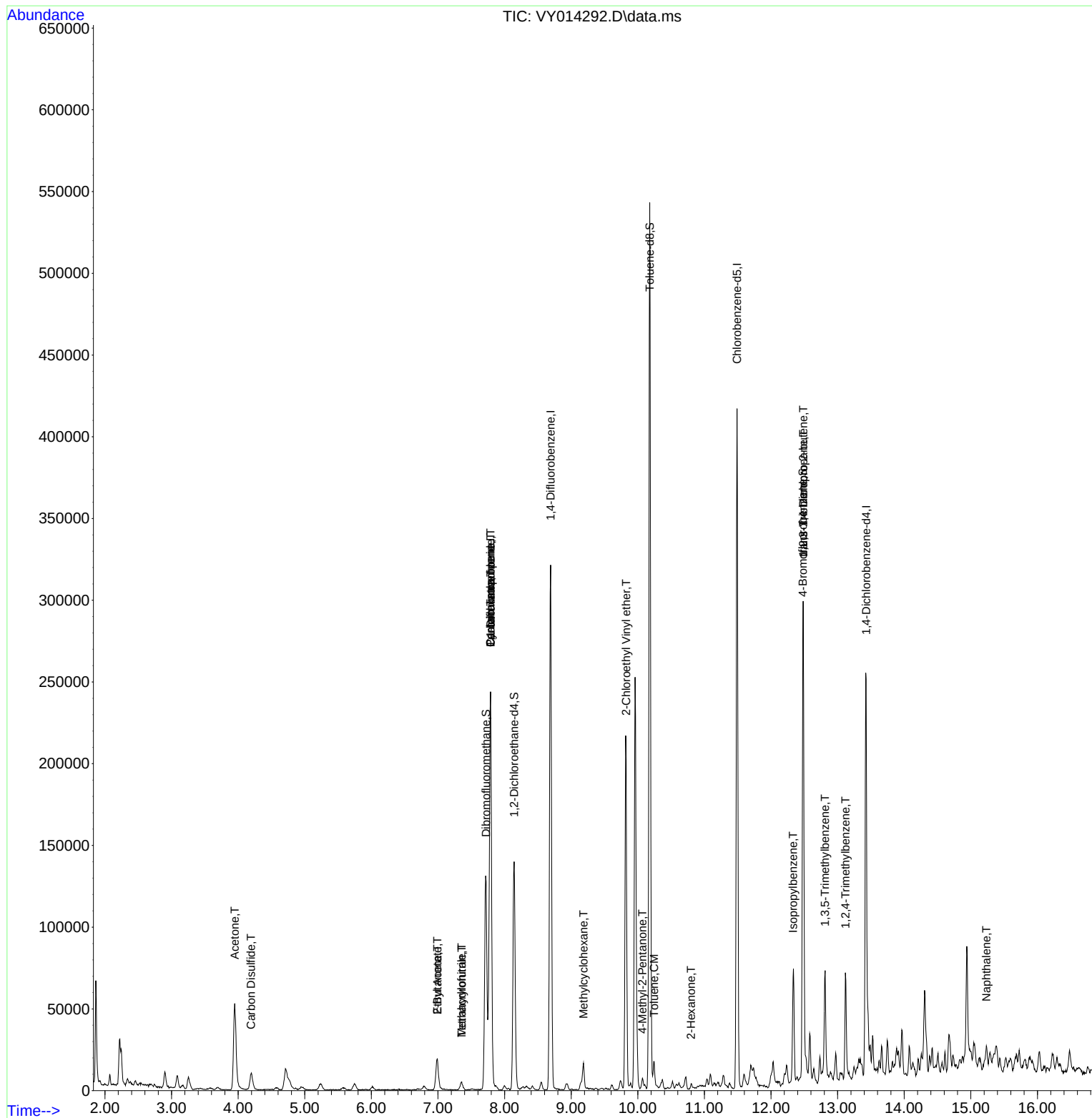
Internal Standards						
1) Pentafluorobenzene	7.789	168	175038	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	271016	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	218252	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	65185	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	115062	47.206	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	94.420%		
35) Dibromofluoromethane	7.721	113	89603	46.620	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	93.240%		
50) Toluene-d8	10.178	98	340468	47.383	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	94.760%		
62) 4-Bromofluorobenzene	12.477	95	76227	29.864	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	59.720%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.948	59	3573	Below Cal		99
13) Acrolein	3.728	56	193	Below Cal	#	14
16) Acetone	3.948	43	91986	125.199	ug/l	99
17) Carbon Disulfide	4.192	76	16741	2.585	ug/l	99
25) 2-Butanone	6.990	43	24256	26.820	ug/l	96
29) Tetrahydrofuran	7.356	42	3103	5.411	ug/l	# 83
31) Cyclohexane	7.789	56	11588	3.549	ug/l	# 59
36) 1,1-Dichloropropene	7.789	75	13508	4.508	ug/l	# 51
37) Ethyl Acetate	6.990	43	24256	11.732	ug/l	# 77
38) Carbon Tetrachloride	7.789	117	17337	5.014	ug/l	# 16
39) Methylcyclohexane	9.185	83	5836	1.755	ug/l	90
41) Methacrylonitrile	7.356	41	2292	2.172	ug/l	# 43
51) 4-Methyl-2-Pentanone	10.069	43	4360	2.215	ug/l	94
52) Toluene	10.245	92	5912	1.070	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.825	63	459	28.976	ug/l	# 48
59) 2-Hexanone	10.800	43	2082	1.464	ug/l	# 27
73) Isopropylbenzene	12.330	105	6486	1.304	ug/l	89
76) 1,2,3-Trichloropropane	12.483	75	42574	49.782	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.812	105	25856	6.073	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.483	75	42574	107.609	ug/l	# 11
84) 1,2,4-Trimethylbenzene	13.117	105	32284	7.660	ug/l	97
95) Naphthalene	15.232	128	9670	3.356	ug/l	# 93

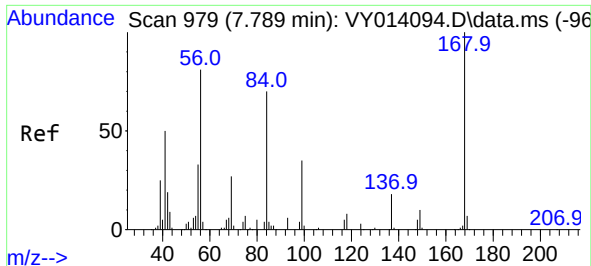
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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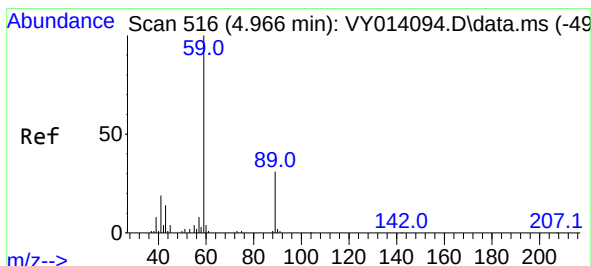
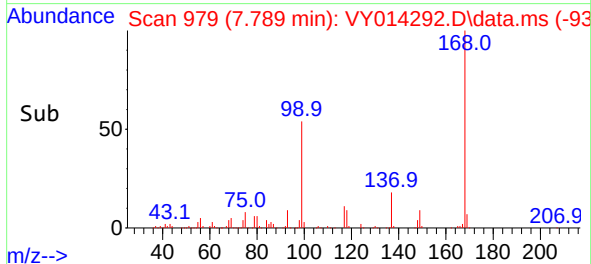
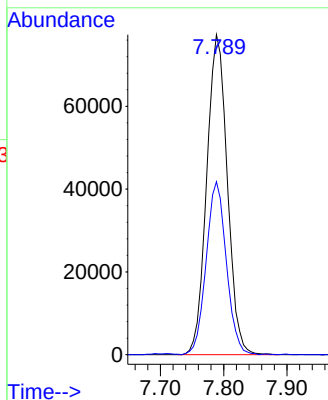
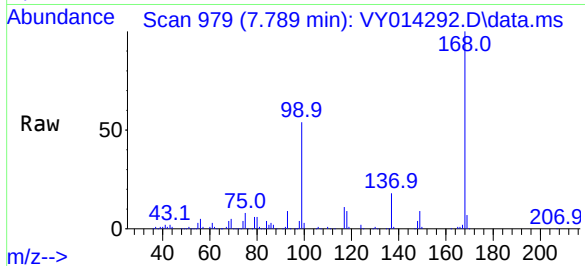




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

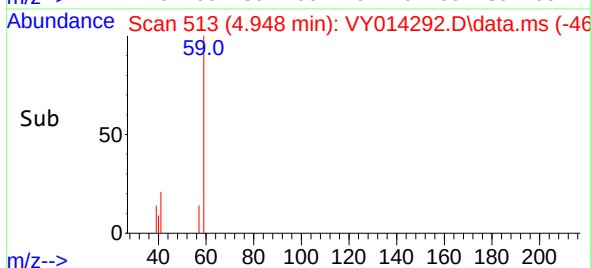
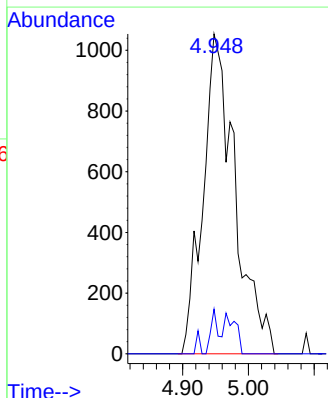
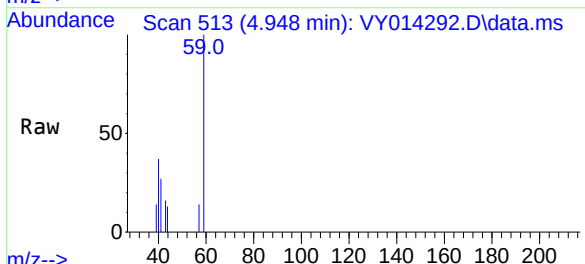
Instrument :
MSVOA_Y
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TOTAL-VOC-TP6-09-10S-4

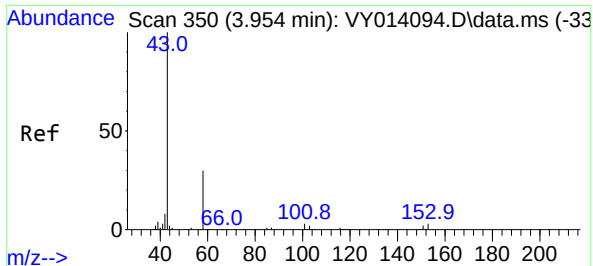
Tgt Ion:168 Resp: 175038
Ion Ratio Lower Upper
168 100
99 54.0 43.4 65.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.948 min Scan# 513
Delta R.T. -0.018 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion: 59 Resp: 3573
Ion Ratio Lower Upper
59 100
57 3.3 3.0 4.4

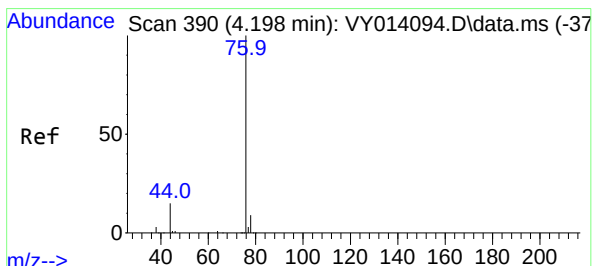
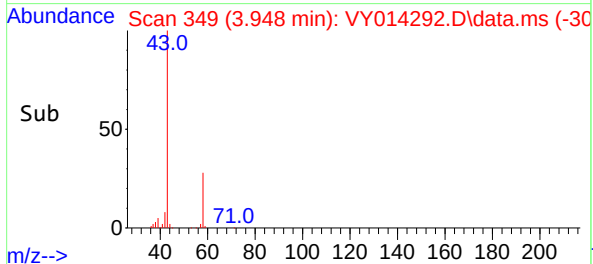
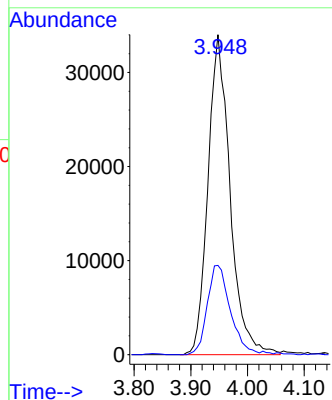
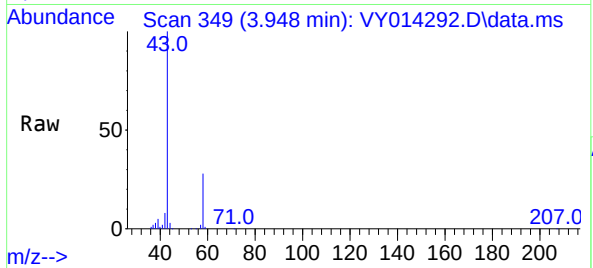




#16
Acetone
Concen: 125.199 ug/l
RT: 3.948 min Scan# 349
Delta R.T. -0.006 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

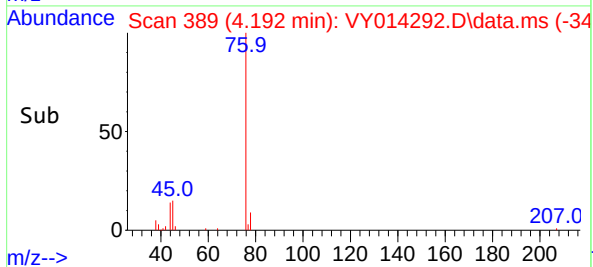
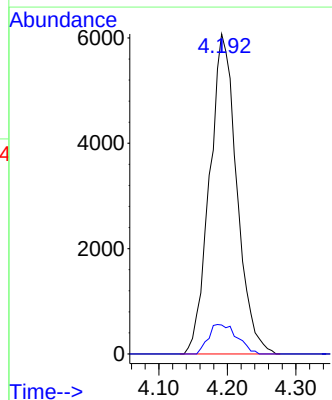
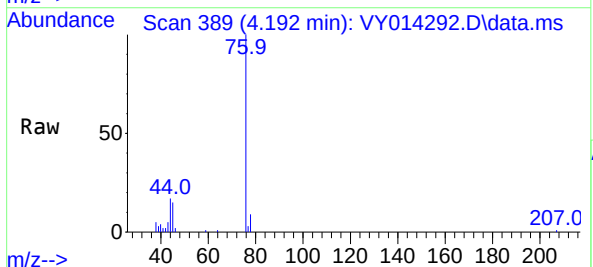
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4

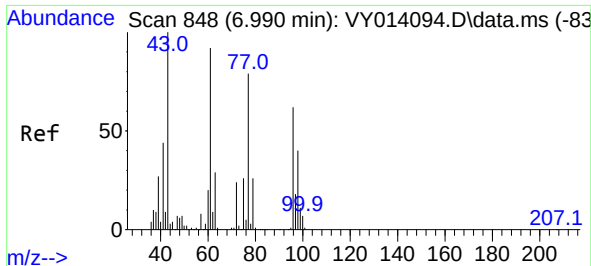
Tgt Ion: 43 Resp: 91986
Ion Ratio Lower Upper
43 100
58 27.9 22.7 34.1



#17
Carbon Disulfide
Concen: 2.585 ug/l
RT: 4.192 min Scan# 389
Delta R.T. -0.006 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion: 76 Resp: 16741
Ion Ratio Lower Upper
76 100
78 9.1 7.0 10.4

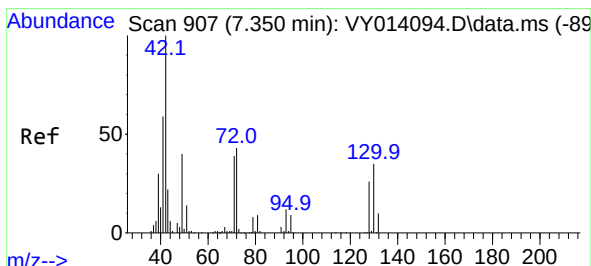
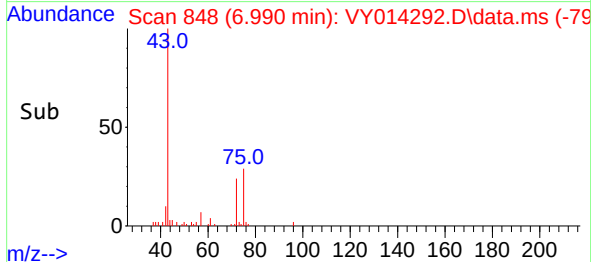
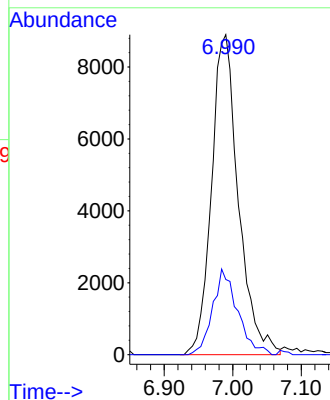
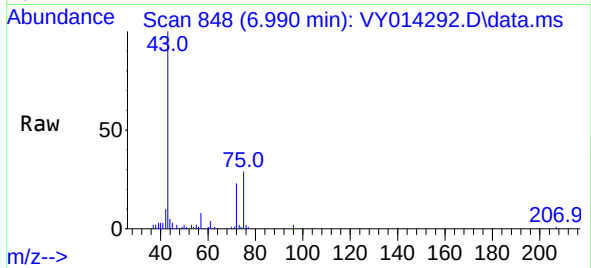




#25
2-Butanone
Concen: 26.820 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

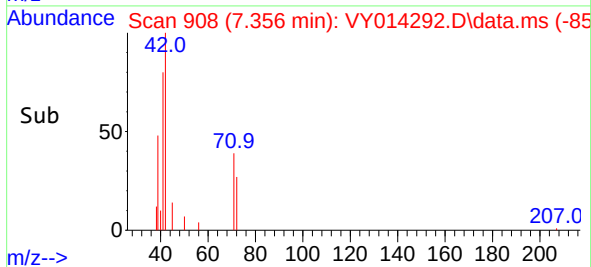
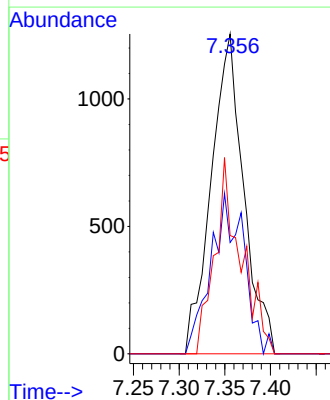
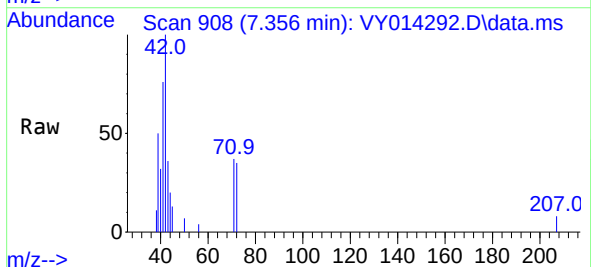
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4

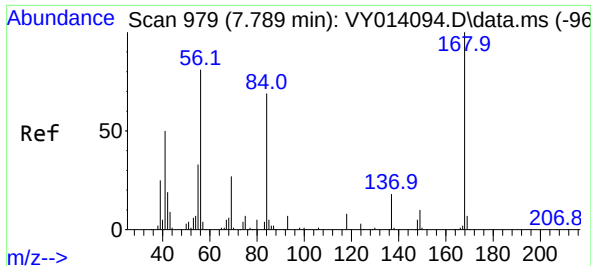
Tgt Ion: 43 Resp: 24256
Ion Ratio Lower Upper
43 100
72 23.5 20.5 30.7



#29
Tetrahydrofuran
Concen: 5.411 ug/l
RT: 7.356 min Scan# 908
Delta R.T. 0.006 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion: 42 Resp: 3103
Ion Ratio Lower Upper
42 100
72 50.8 32.8 49.2#
71 49.3 31.0 46.4#

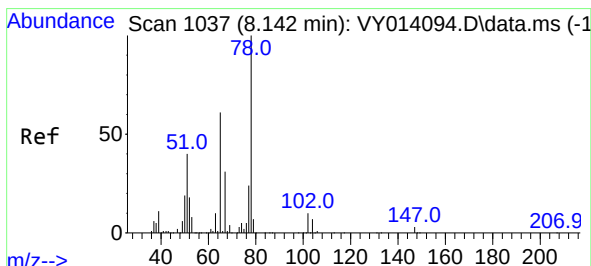
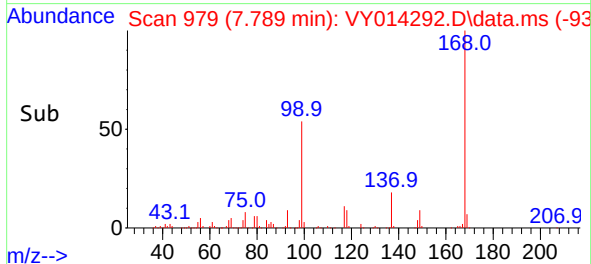
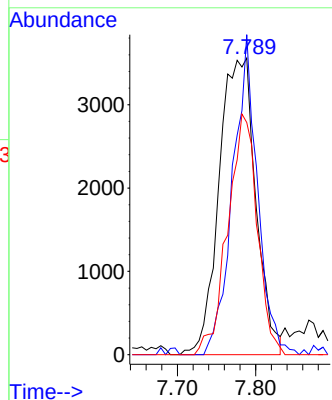
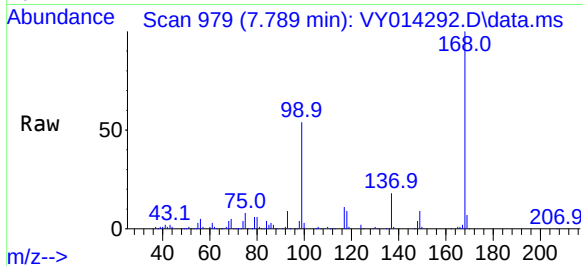




#31
Cyclohexane
Concen: 3.549 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

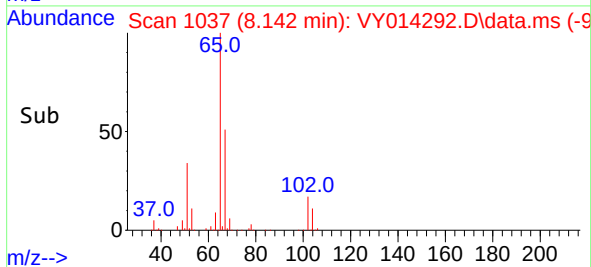
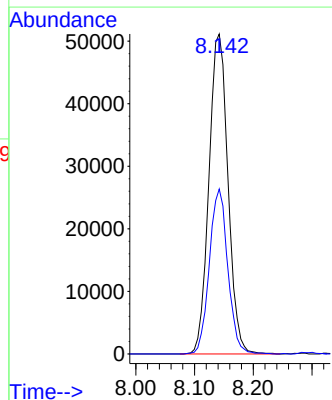
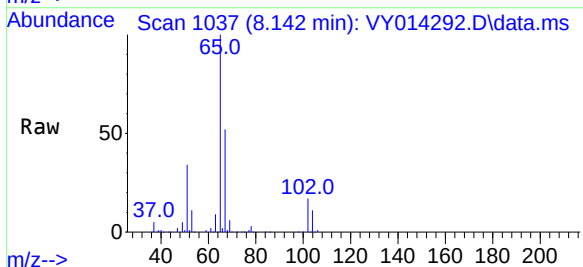
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4

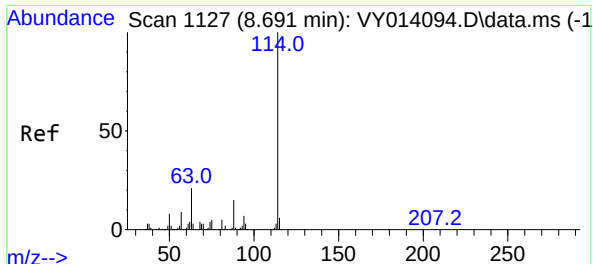
Tgt Ion: 56 Resp: 11588
Ion Ratio Lower Upper
56 100
69 107.9 27.8 41.6#
84 78.2 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 47.206 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion: 65 Resp: 115062
Ion Ratio Lower Upper
65 100
67 49.9 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY014292.D

Acq: 20 Jun 2023 18:40

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-TP6-09-10S-4

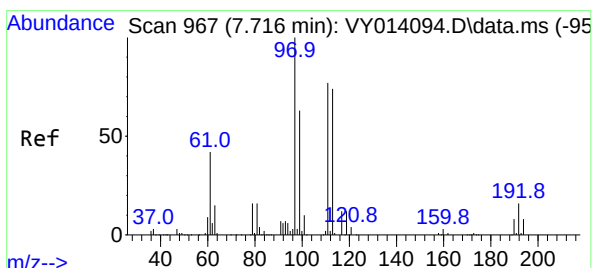
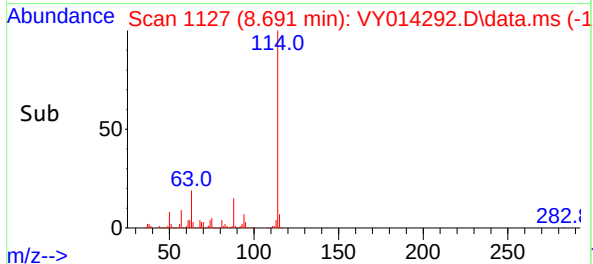
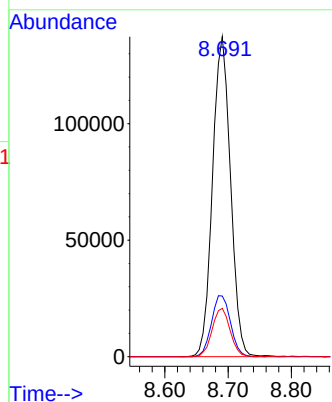
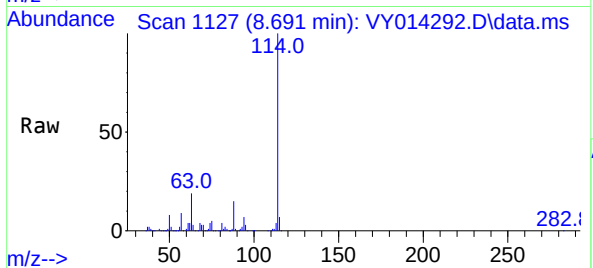
Tgt Ion:114 Resp: 271016

Ion Ratio Lower Upper

114 100

63 19.0 0.0 42.4

88 15.1 0.0 30.6



#35

Dibromofluoromethane

Concen: 46.620 ug/l

RT: 7.721 min Scan# 968

Delta R.T. 0.005 min

Lab File: VY014292.D

Acq: 20 Jun 2023 18:40

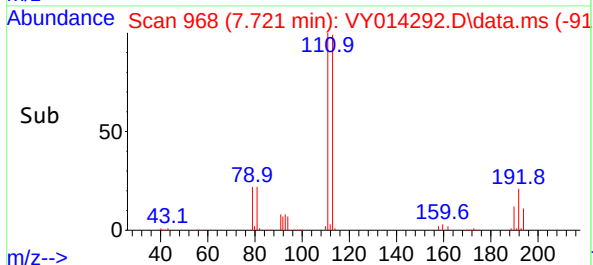
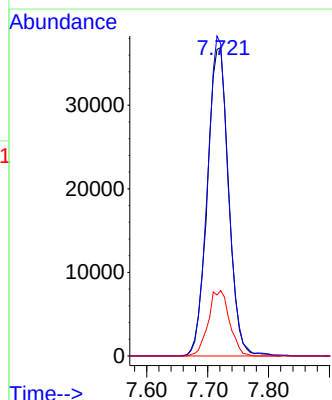
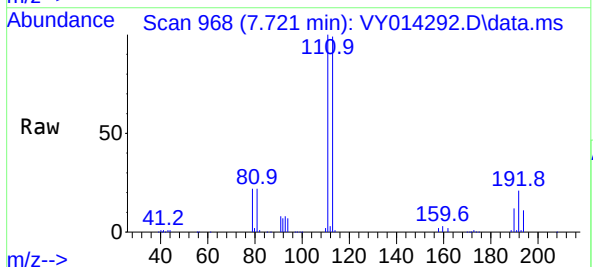
Tgt Ion:113 Resp: 89603

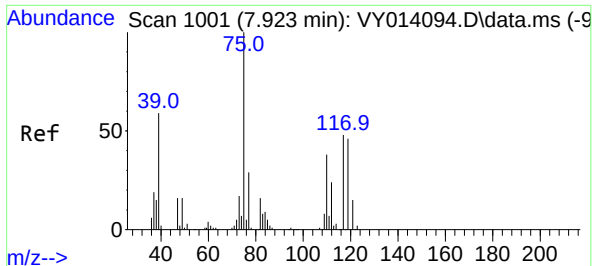
Ion Ratio Lower Upper

113 100

111 101.2 81.3 121.9

192 21.2 16.9 25.3

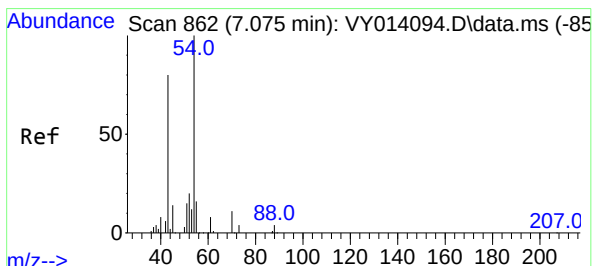
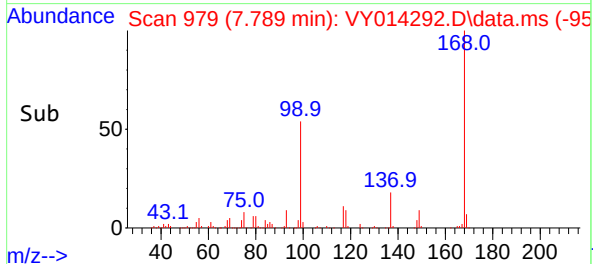
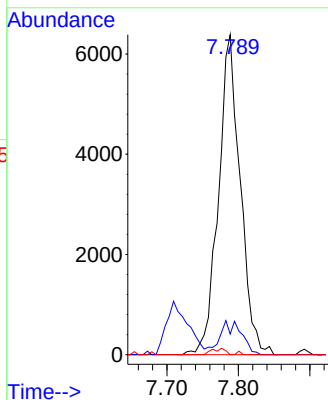
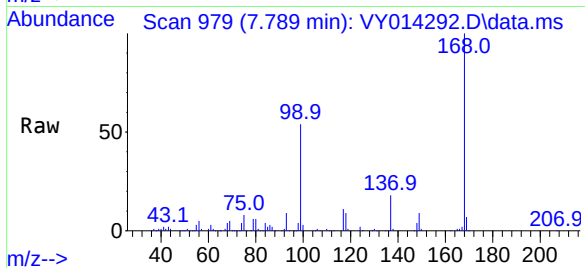




#36
1,1-Dichloropropene
Concen: 4.508 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

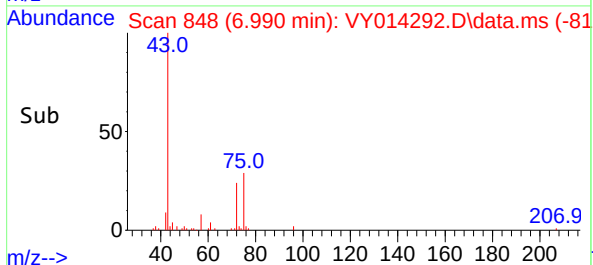
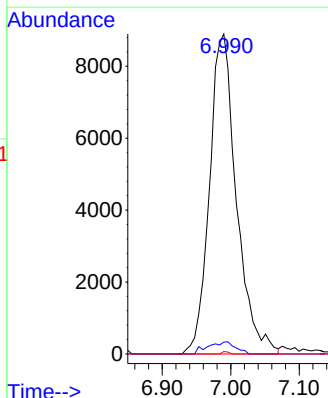
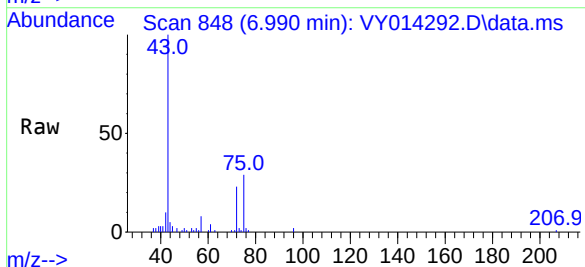
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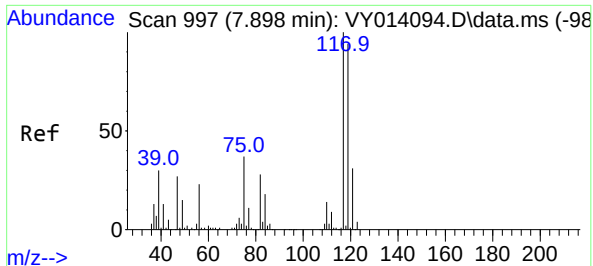
Tgt Ion: 75 Resp: 13508
Ion Ratio Lower Upper
75 100
110 9.8 17.8 53.5#
77 1.2 24.4 36.6#



#37
Ethyl Acetate
Concen: 11.732 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.085 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion: 43 Resp: 24256
Ion Ratio Lower Upper
43 100
61 3.9 10.1 15.1#
70 0.2 7.1 10.7#

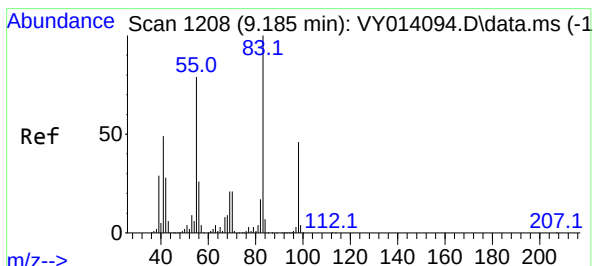
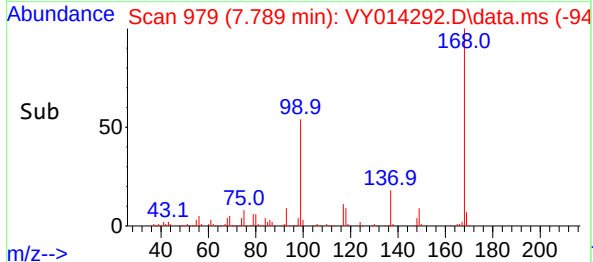
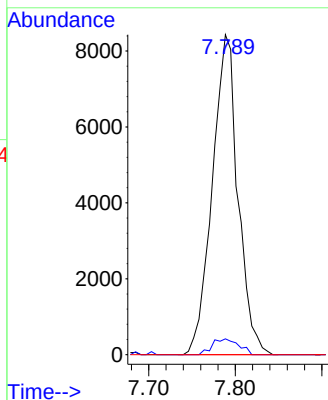
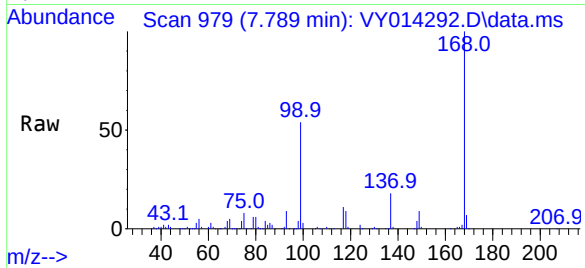




#38
Carbon Tetrachloride
Concen: 5.014 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.109 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

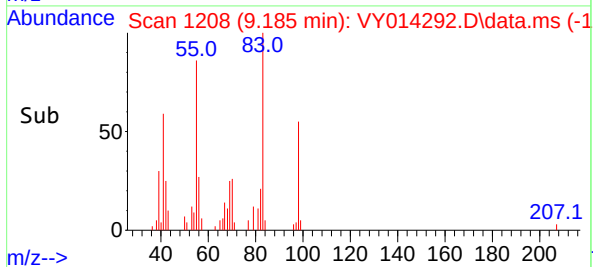
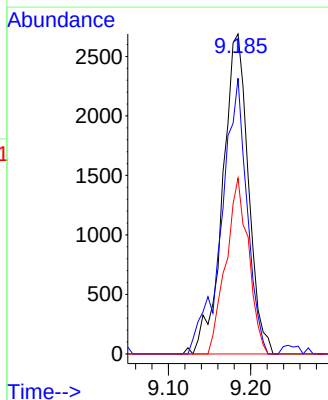
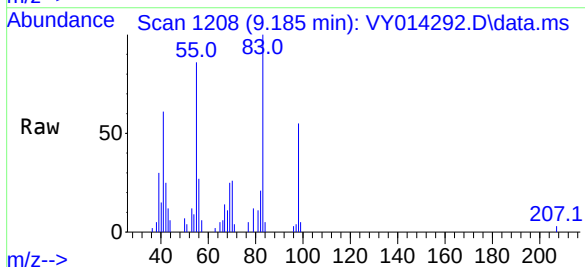
Instrument :
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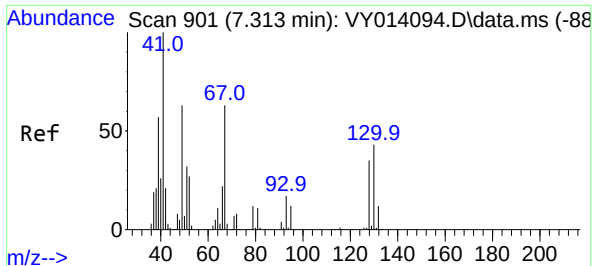
Tgt Ion:117 Resp: 17337
Ion Ratio Lower Upper
117 100
119 5.0 76.4 114.6#
121 0.0 25.8 38.6#



#39
Methylcyclohexane
Concen: 1.755 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. -0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

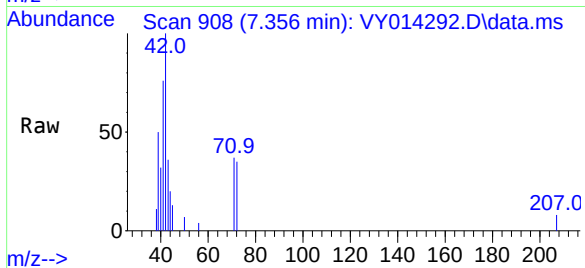
Tgt Ion: 83 Resp: 5836
Ion Ratio Lower Upper
83 100
55 86.1 63.0 94.4
98 54.9 37.4 56.2





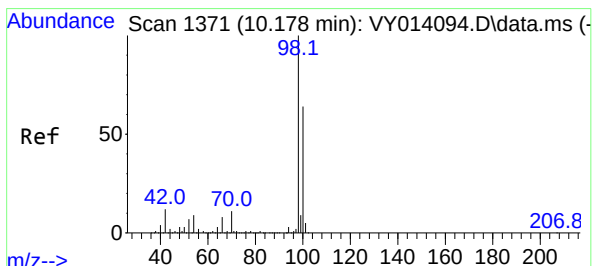
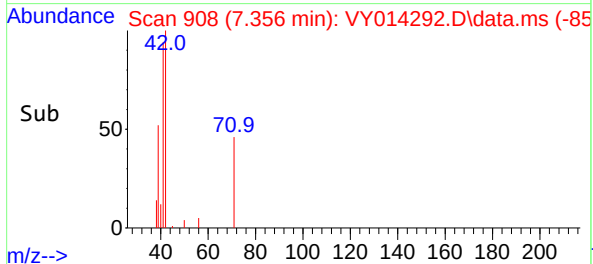
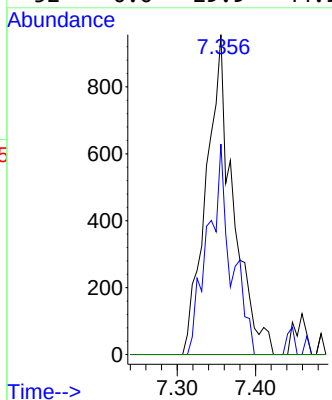
#41
Methacrylonitrile
Concen: 2.172 ug/l
RT: 7.356 min Scan# 901
Delta R.T. 0.043 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4



Tgt Ion: 41 Resp: 2292

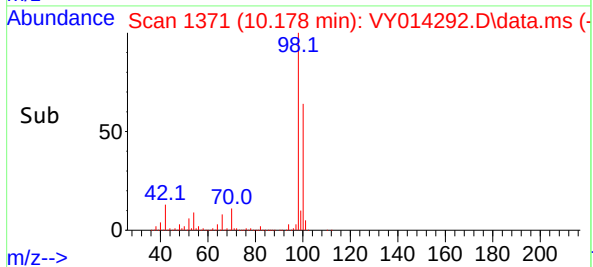
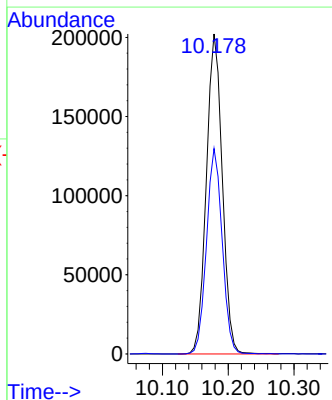
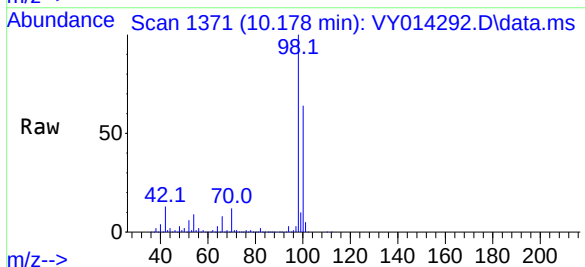
Ion	Ratio	Lower	Upper
41	100		
39	57.2	52.1	78.1
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#

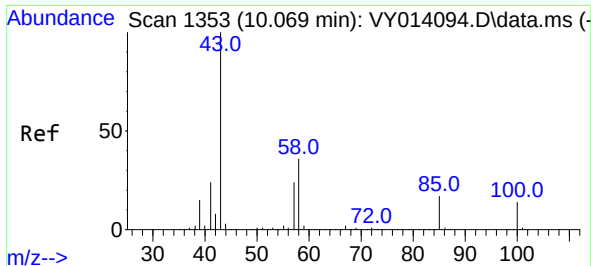


#50
Toluene-d8
Concen: 47.383 ug/l
RT: 10.178 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion: 98 Resp: 340468

Ion	Ratio	Lower	Upper
98	100		
100	63.3	50.1	75.1





#51

4-Methyl-2-Pentanone

Concen: 2.215 ug/l

RT: 10.069 min Scan# 1353

Delta R.T. -0.000 min

Lab File: VY014292.D

Acq: 20 Jun 2023 18:40

Instrument :

MSVOA_Y

ClientSampleId :

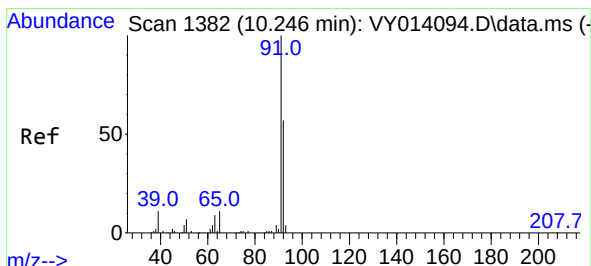
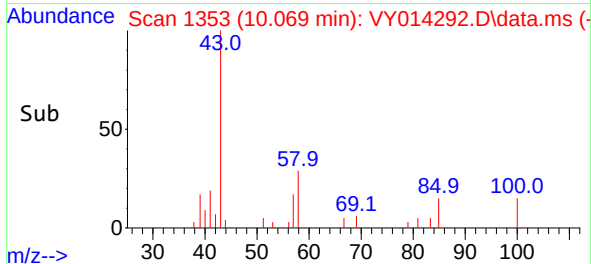
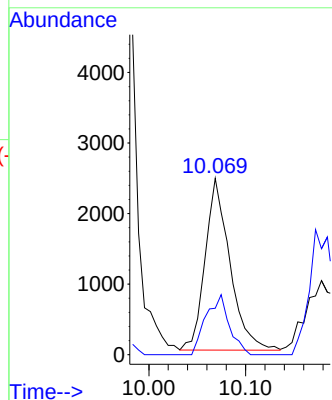
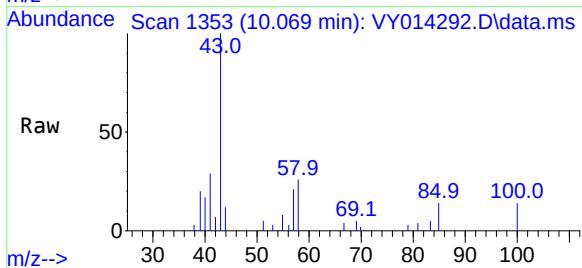
TOTAL-VOC-TP6-09-10S-4

Tgt Ion: 43 Resp: 4360

Ion Ratio Lower Upper

43 100

58 32.6 29.0 43.6



#52

Toluene

Concen: 1.070 ug/l

RT: 10.245 min Scan# 1382

Delta R.T. -0.001 min

Lab File: VY014292.D

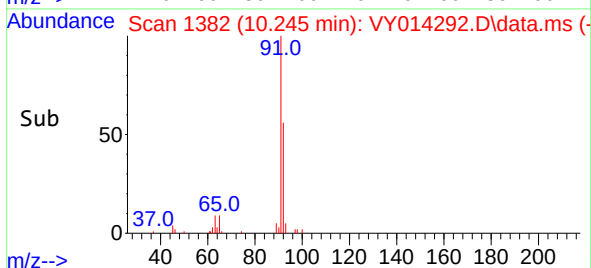
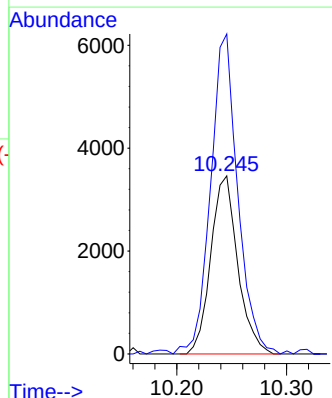
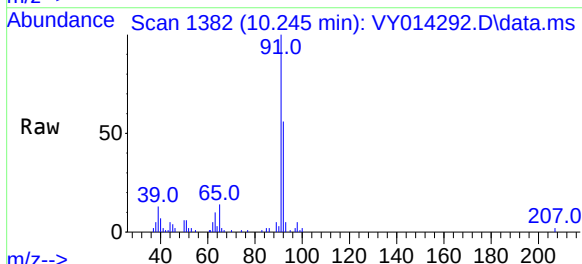
Acq: 20 Jun 2023 18:40

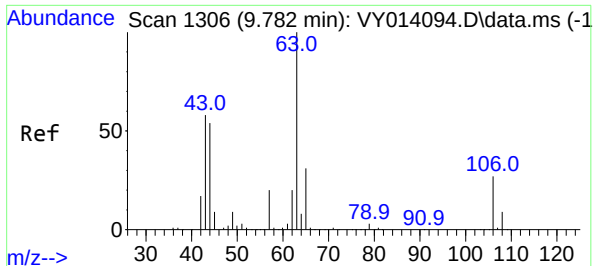
Tgt Ion: 92 Resp: 5912

Ion Ratio Lower Upper

92 100

91 181.1 143.8 215.6

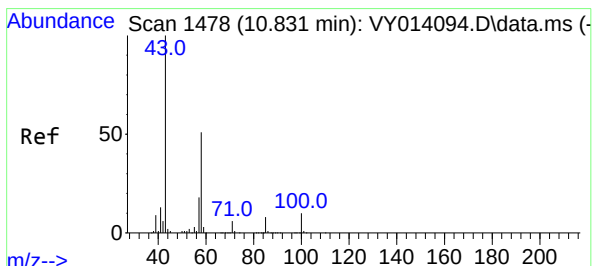
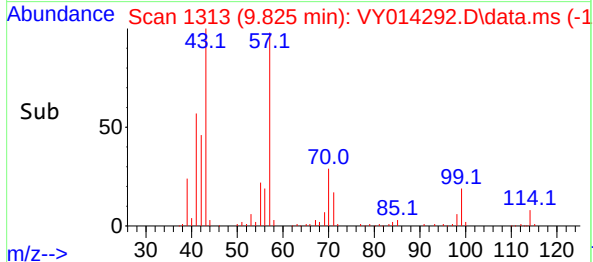
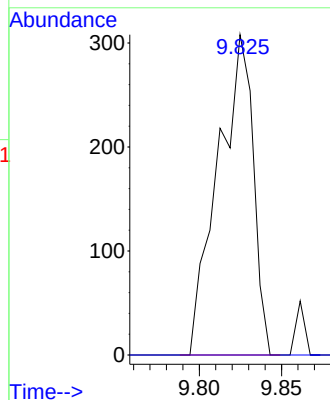
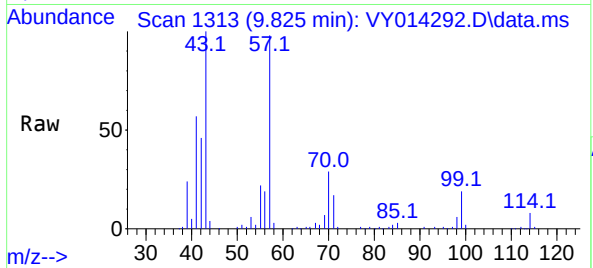




#58
2-Chloroethyl Vinyl ether
Concen: 28.976 ug/l
RT: 9.825 min Scan# 11
Delta R.T. 0.043 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

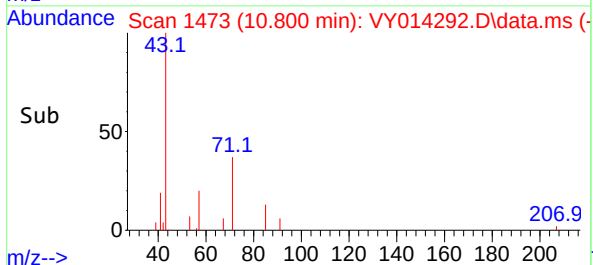
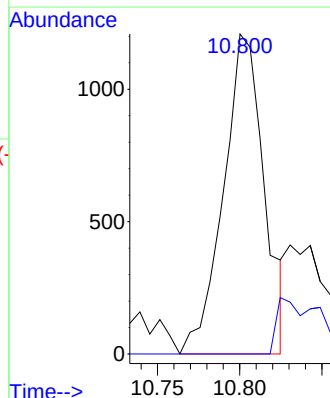
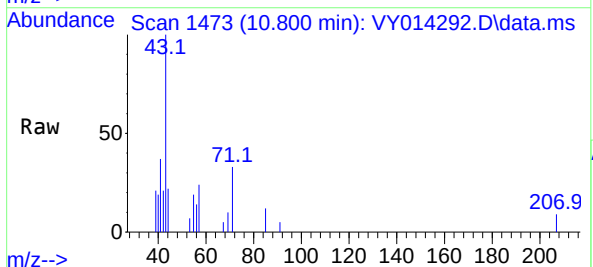
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4

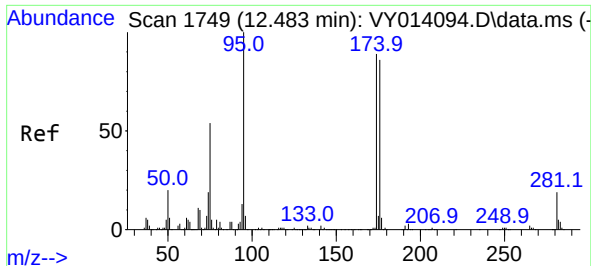
Tgt Ion: 63 Resp: 459
Ion Ratio Lower Upper
63 100
106 0.0 21.2 31.8#



#59
2-Hexanone
Concen: 1.464 ug/l
RT: 10.800 min Scan# 1473
Delta R.T. -0.031 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion: 43 Resp: 2082
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.3#

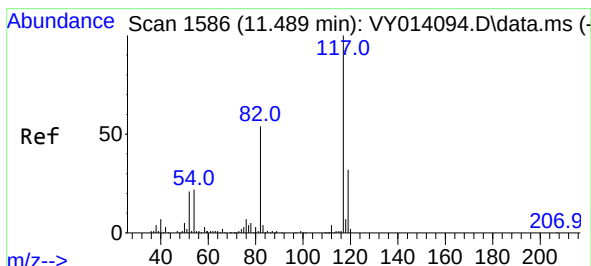
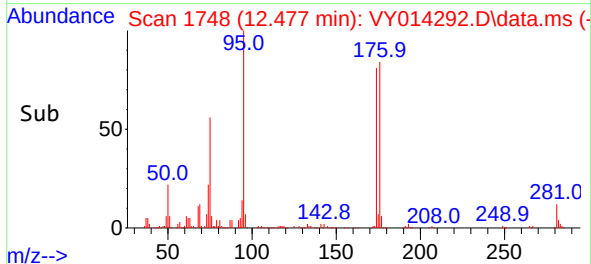
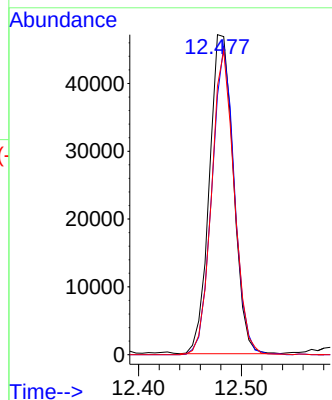
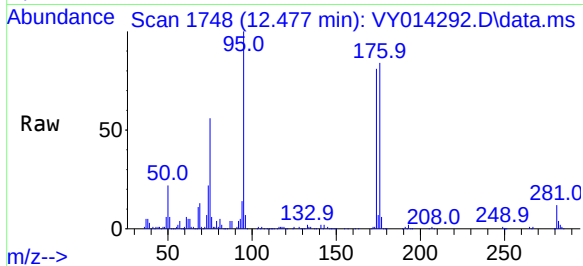




#62
4-Bromofluorobenzene
Concen: 29.864 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

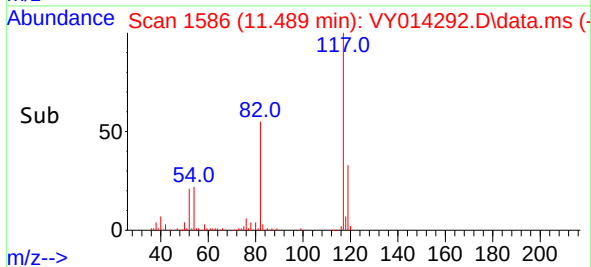
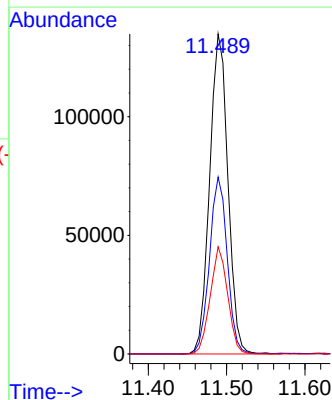
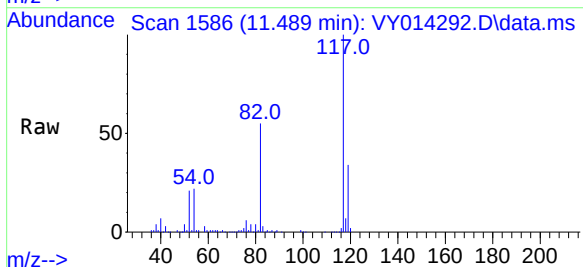
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4

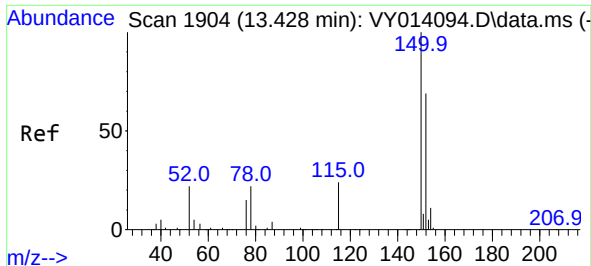
Tgt Ion:	95	Resp:	76227
Ion	Ratio	Lower	Upper
95	100		
174	90.3	0.0	178.2
176	89.5	0.0	173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion:	117	Resp:	218252
Ion	Ratio	Lower	Upper
117	100		
82	55.3	43.4	65.0
119	33.5	26.3	39.5

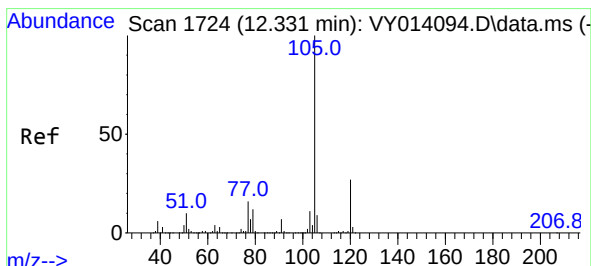
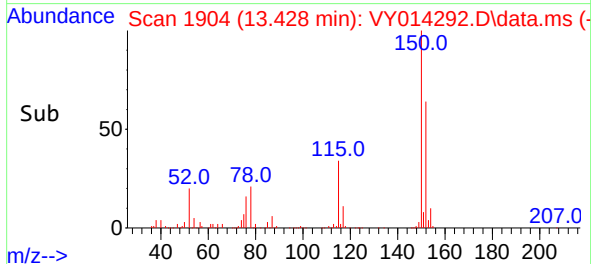
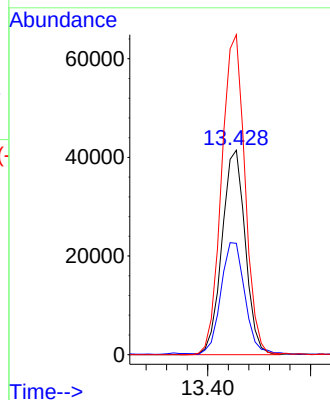
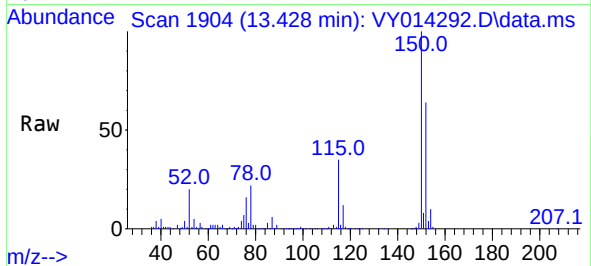




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

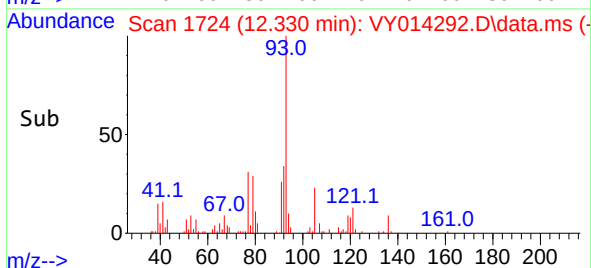
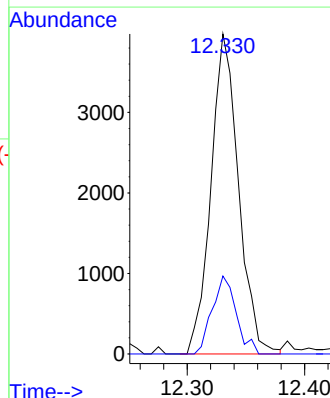
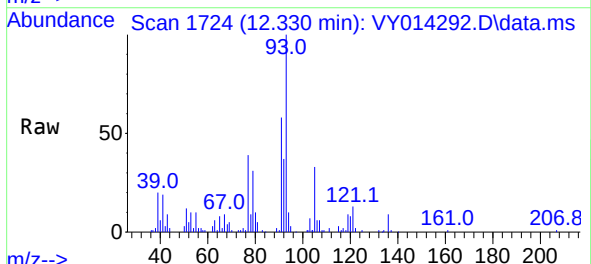
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4

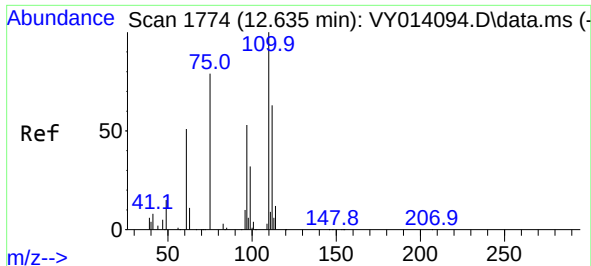
Tgt Ion:152 Resp: 65185
Ion Ratio Lower Upper
152 100
115 56.4 28.8 86.5
150 157.4 0.0 348.8



#73
Isopropylbenzene
Concen: 1.304 ug/l
RT: 12.330 min Scan# 1724
Delta R.T. -0.001 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion:105 Resp: 6486
Ion Ratio Lower Upper
105 100
120 21.2 13.3 39.9

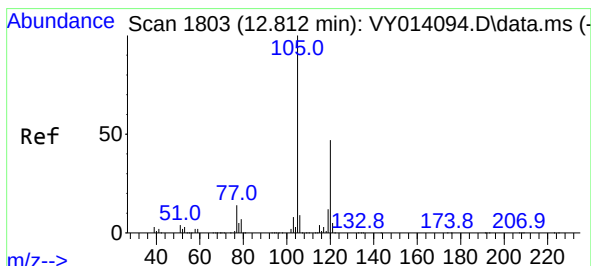
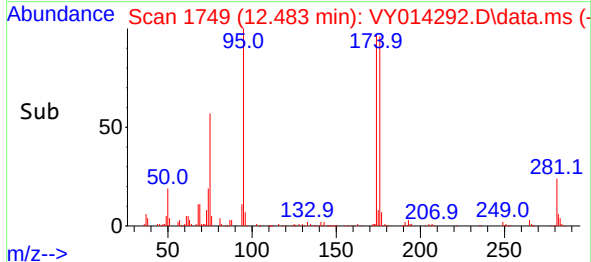
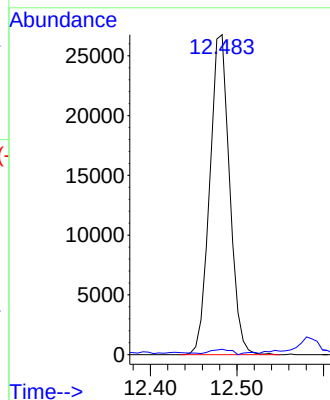
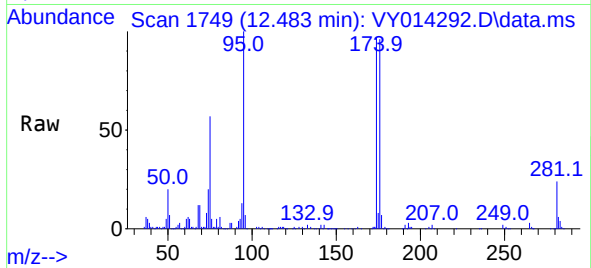




#76
1,2,3-Trichloropropane
Concen: 49.782 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

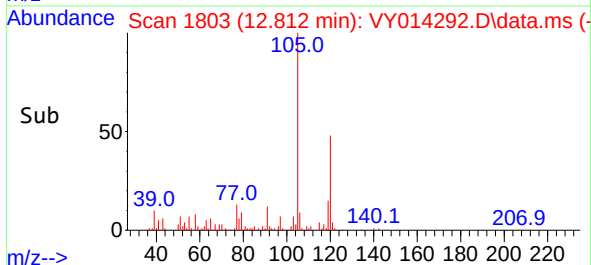
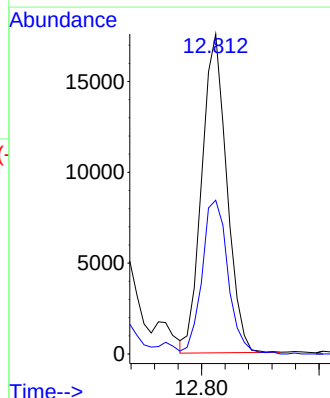
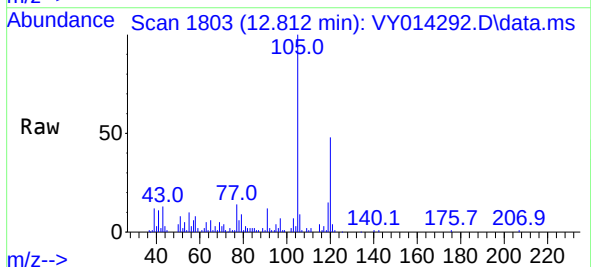
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4

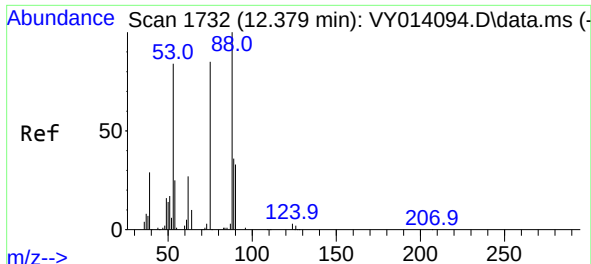
Tgt Ion: 75 Resp: 42574
Ion Ratio Lower Upper
75 100
77 1.8 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 6.073 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Tgt Ion: 105 Resp: 25856
Ion Ratio Lower Upper
105 100
120 50.2 23.9 71.7

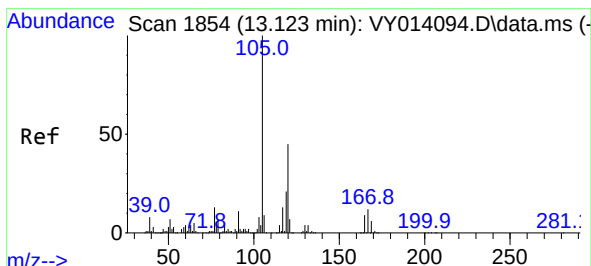
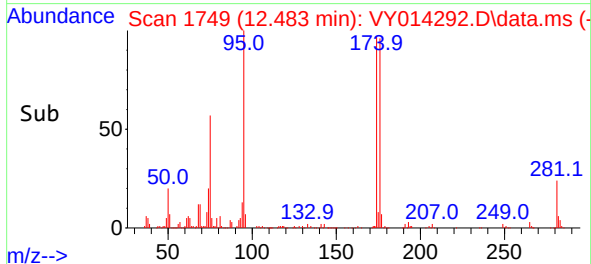
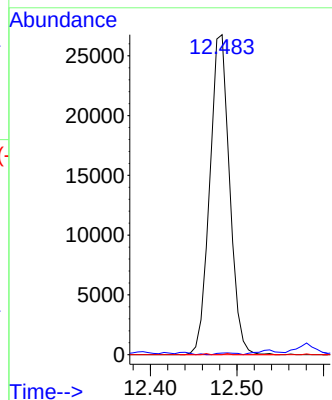
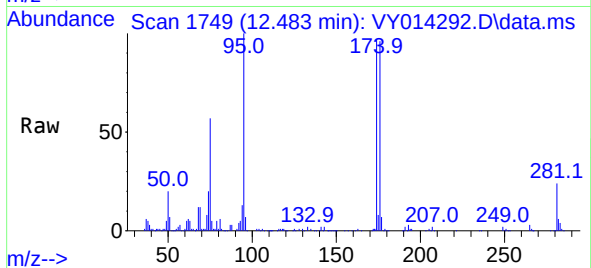




#81
trans-1,4-Dichloro-2-butene
Concen: 107.609 ug/l
RT: 12.483 min Scan# 1732
Delta R.T. 0.104 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

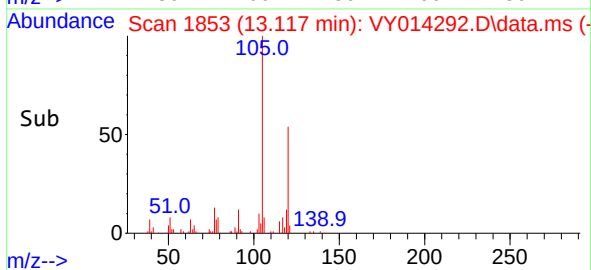
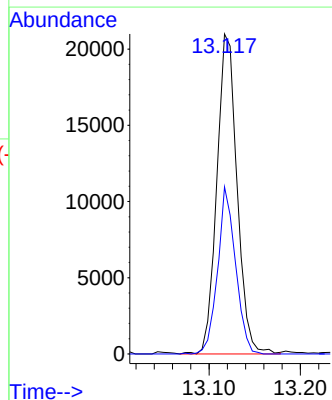
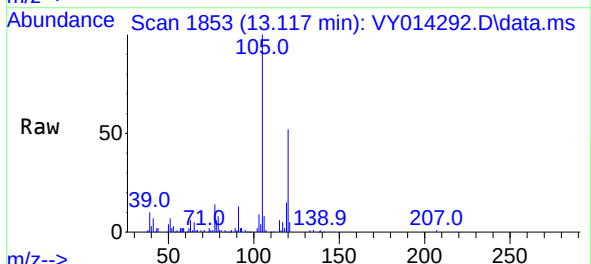
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4

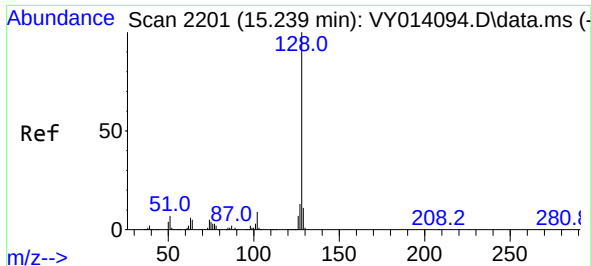
Tgt Ion: 75 Resp: 42574
Ion Ratio Lower Upper
75 100
53 0.5 77.8 116.8#
89 0.1 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 7.660 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.006 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

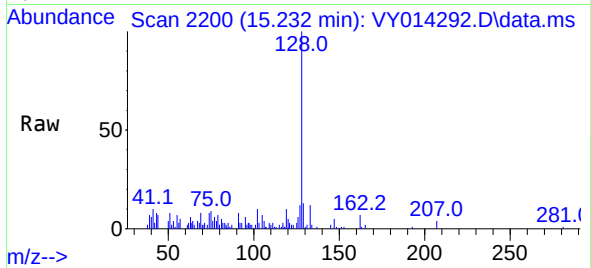
Tgt Ion: 105 Resp: 32284
Ion Ratio Lower Upper
105 100
120 46.2 22.2 66.6





#95
Naphthalene
Concen: 3.356 ug/l
RT: 15.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: VY014292.D
Acq: 20 Jun 2023 18:40

Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4



Tgt Ion:128 Resp: 9670
Ion Ratio Lower Upper
128 100
127 18.2 10.8 16.2#
129 11.1 8.6 13.0

