

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062223\
 Data File : VY014383.D
 Acq On : 22 Jun 2023 16:49
 Operator : KP/MD
 Sample : 03298-14
 Misc : 10.59g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Jun 22 17:26:15 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)

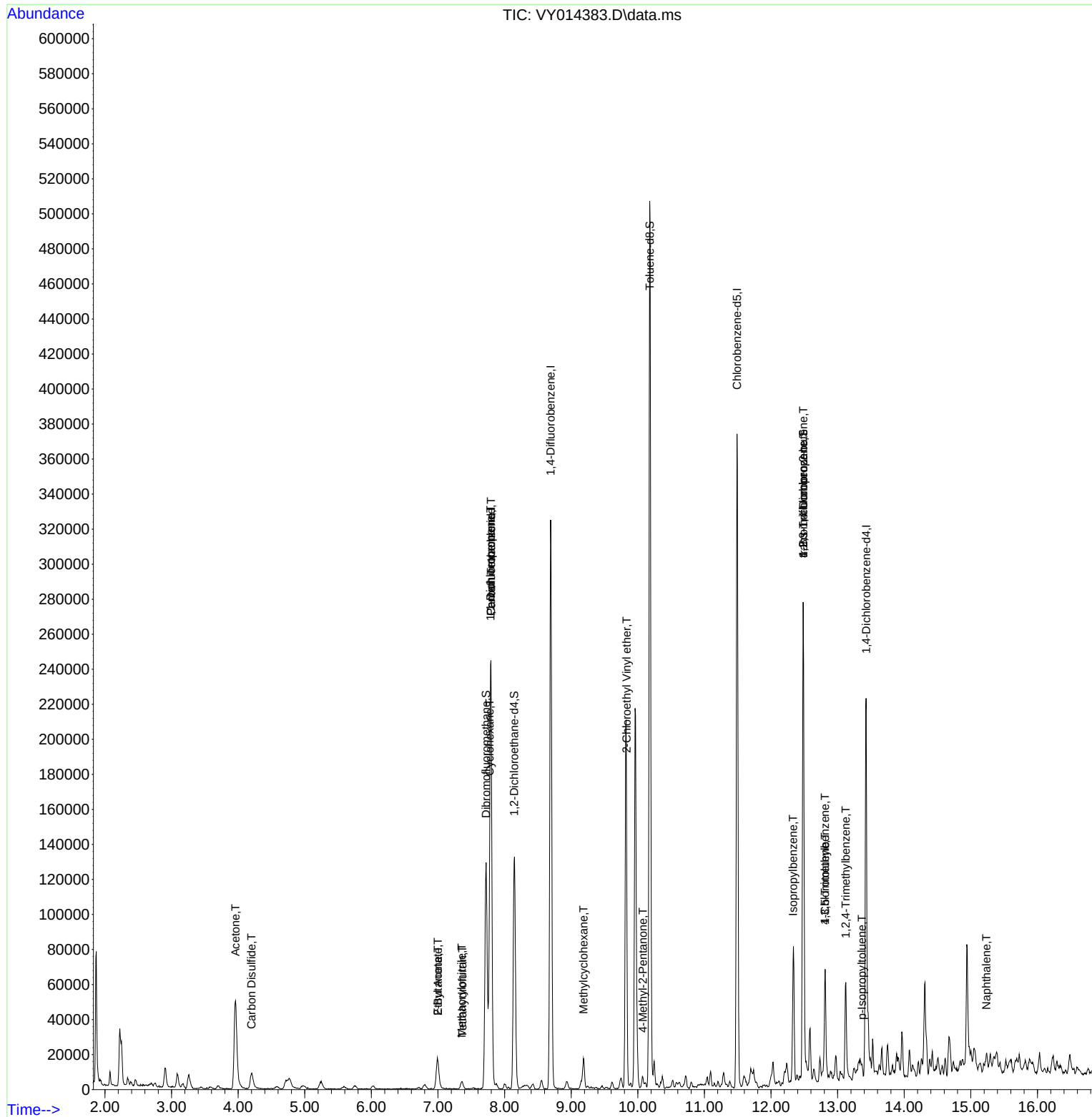
Internal Standards						
1) Pentafluorobenzene	7.795	168	179851	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	270230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	201055	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	56677	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	112937	45.094	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	90.180%		
35) Dibromofluoromethane	7.722	113	86237	44.999	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	90.000%		
50) Toluene-d8	10.179	98	327980	45.777	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	91.560%		
62) 4-Bromofluorobenzene	12.483	95	67807	26.642	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	53.280%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.972	59	4585	Below Cal	#	81
13) Acrolein	3.735	56	519	Below Cal	#	14
16) Acetone	3.960	43	95937	127.082	ug/l	93
17) Carbon Disulfide	4.198	76	16999	2.555	ug/l	100
20) Methylene Chloride	4.716	84	1518	Below Cal		92
25) 2-Butanone	6.996	43	20440	21.996	ug/l	100
29) Tetrahydrofuran	7.368	42	3334	5.658	ug/l	98
31) Cyclohexane	7.777	56	12165	3.626	ug/l #	71
36) 1,1-Dichloropropene	7.789	75	12942	4.332	ug/l #	53
37) Ethyl Acetate	6.996	43	20440	9.915	ug/l #	80
38) Carbon Tetrachloride	7.795	117	17021	4.937	ug/l #	17
39) Methylcyclohexane	9.185	83	6645	2.005	ug/l	88
41) Methacrylonitrile	7.356	41	1942	1.846	ug/l #	41
51) 4-Methyl-2-Pentanone	10.075	43	4280	2.180	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.831	63	478	28.992	ug/l #	48
73) Isopropylbenzene	12.331	105	6678	1.545	ug/l	85
76) 1,2,3-Trichloropropane	12.483	75	38974	52.413	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.813	105	24940	6.737	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.483	75	38974	113.297	ug/l #	11
82) 4-Chlorotoluene	12.813	91	3841	1.193	ug/l #	40
84) 1,2,4-Trimethylbenzene	13.123	105	29771	8.124	ug/l	98
86) p-Isopropyltoluene	13.367	119	4418	1.129	ug/l	95
95) Naphthalene	15.233	128	7240	2.889	ug/l #	94

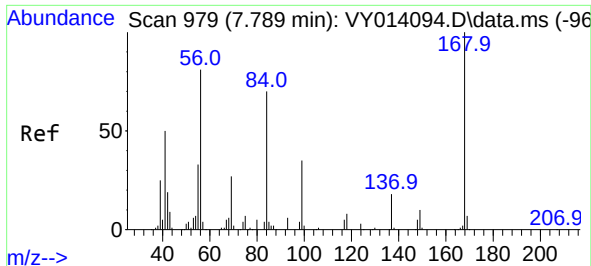
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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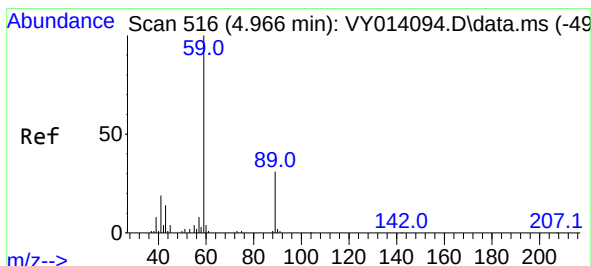
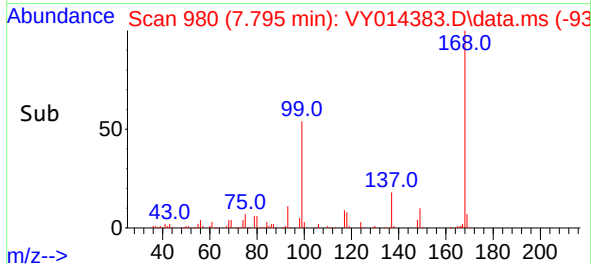
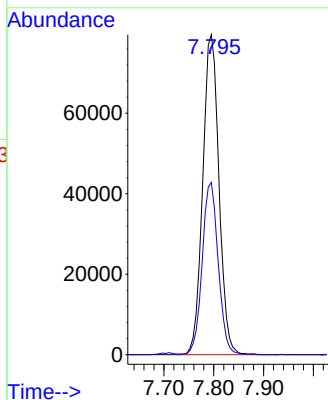
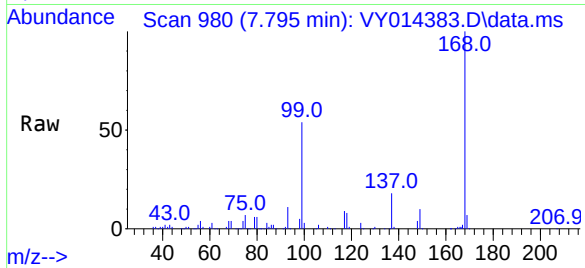




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

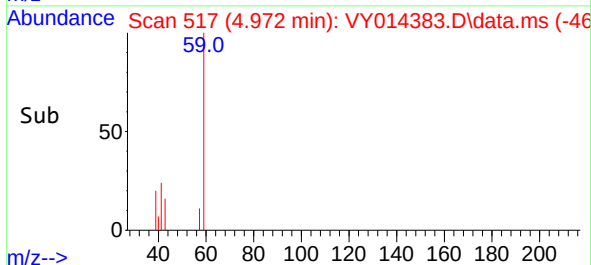
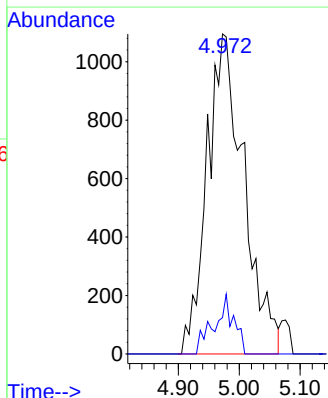
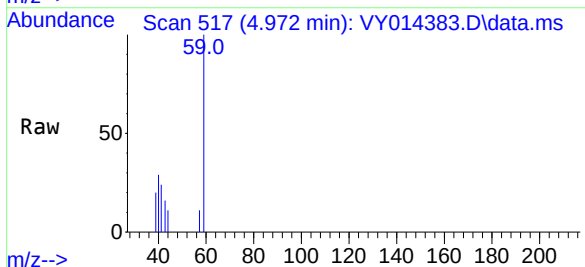
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4RE

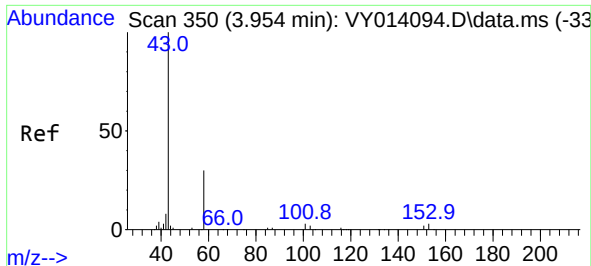
Tgt Ion:168 Resp: 179851
Ion Ratio Lower Upper
168 100
99 53.8 43.4 65.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.972 min Scan# 517
Delta R.T. 0.006 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 59 Resp: 4585
Ion Ratio Lower Upper
59 100
57 9.9 3.0 4.4#

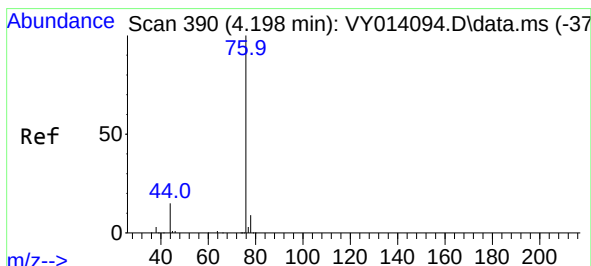
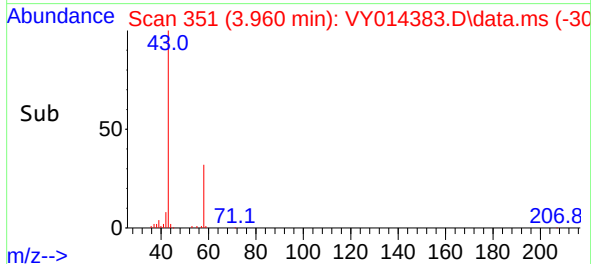
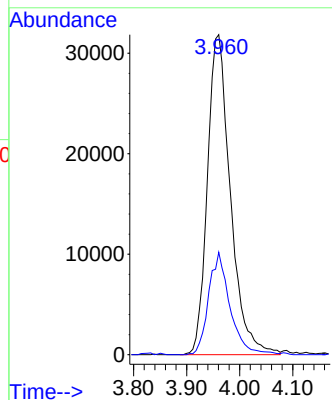
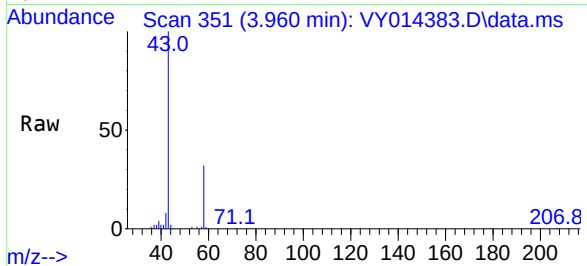




#16
Acetone
Concen: 127.082 ug/l
RT: 3.960 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

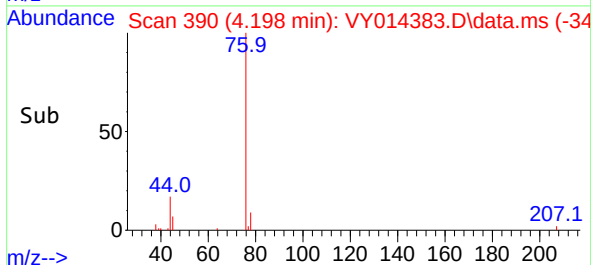
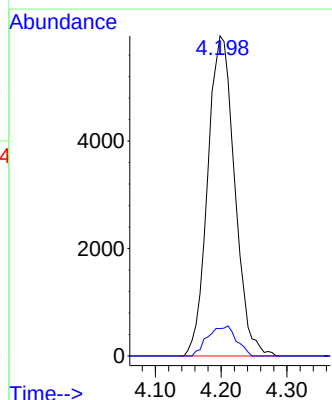
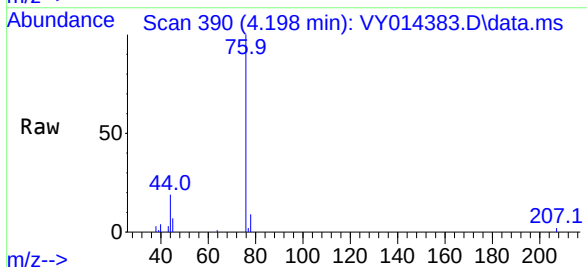
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4RE

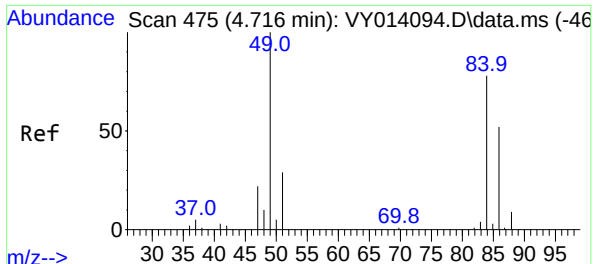
Tgt Ion: 43 Resp: 95937
Ion Ratio Lower Upper
43 100
58 32.0 22.7 34.1



#17
Carbon Disulfide
Concen: 2.555 ug/l
RT: 4.198 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 76 Resp: 16999
Ion Ratio Lower Upper
76 100
78 8.5 7.0 10.4



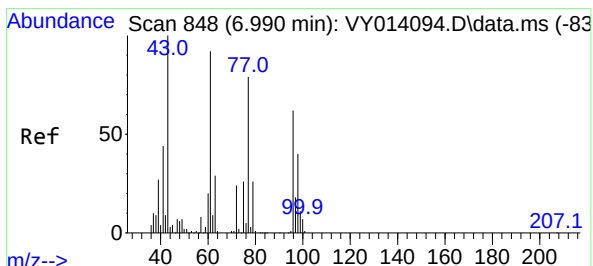
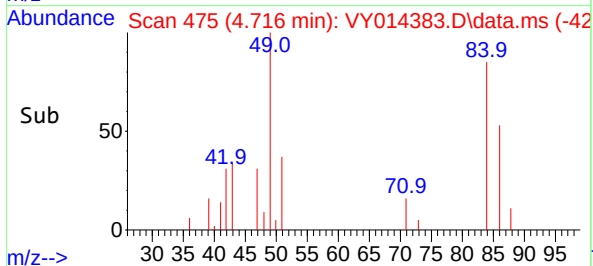
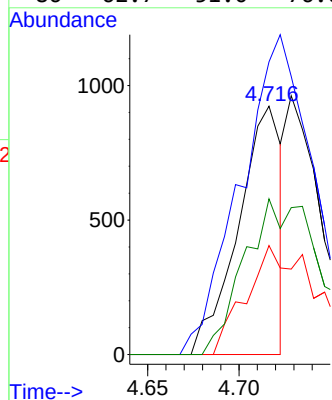
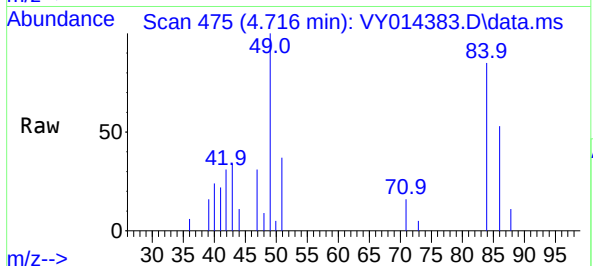


#20
Methylene Chloride
Concen: Below Cal
RT: 4.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

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

Tgt Ion: 84 Resp: 1518

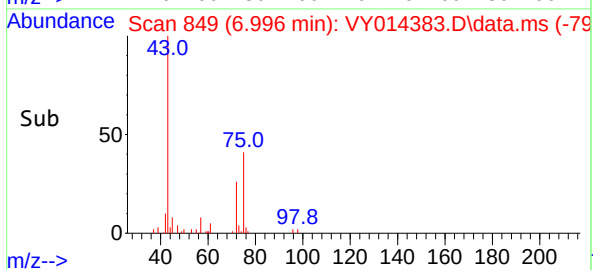
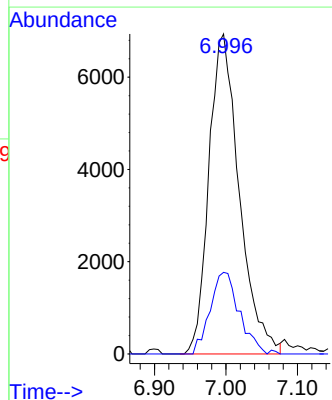
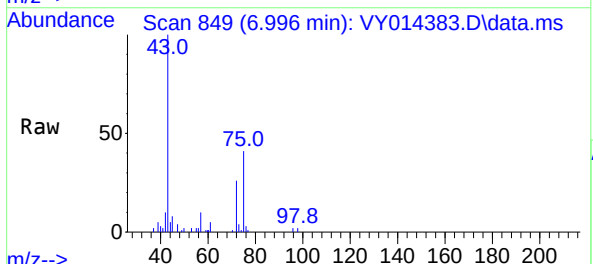
Ion	Ratio	Lower	Upper
84	100		
49	117.9	106.9	160.3
51	43.9	33.2	49.8
86	62.7	51.0	76.6

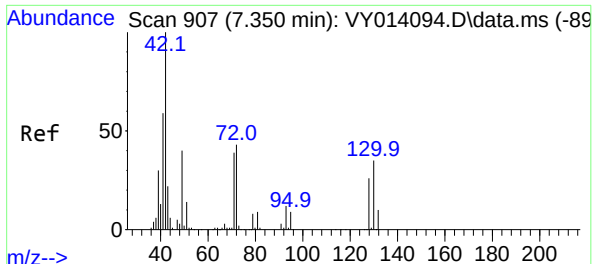


#25
2-Butanone
Concen: 21.996 ug/l
RT: 6.996 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 43 Resp: 20440

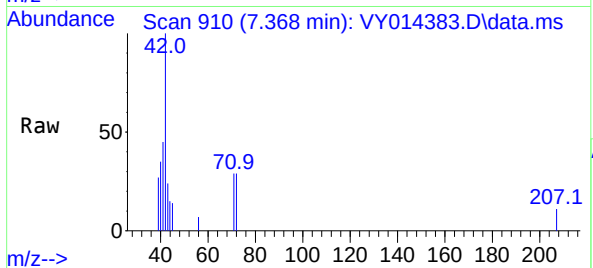
Ion	Ratio	Lower	Upper
43	100		
72	25.5	20.5	30.7





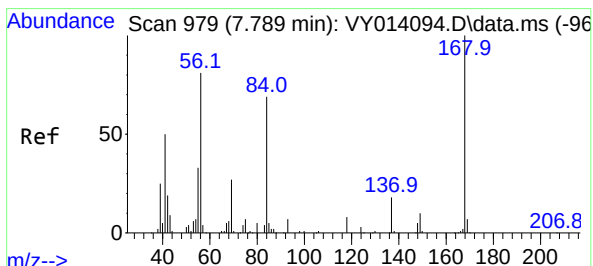
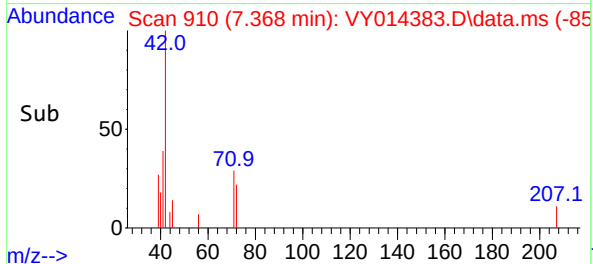
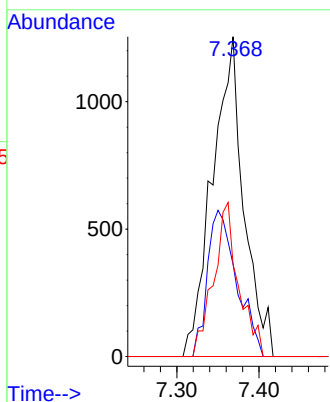
#29
Tetrahydrofuran
Concen: 5.658 ug/l
RT: 7.368 min Scan# 910
Delta R.T. 0.018 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

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



Tgt Ion: 42 Resp: 3334

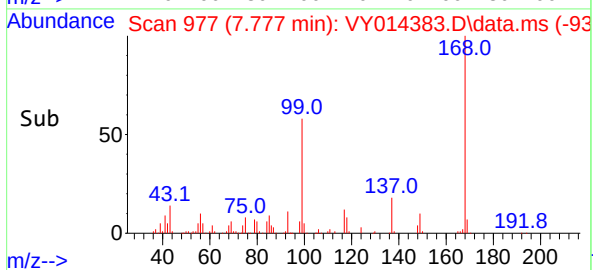
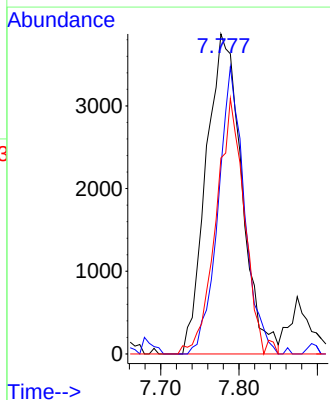
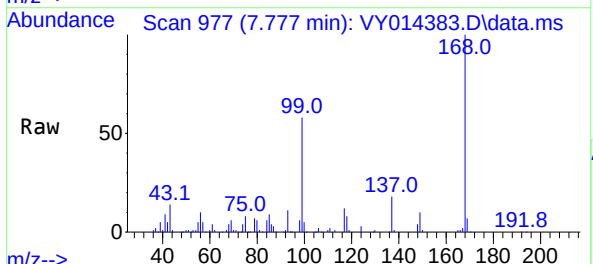
Ion	Ratio	Lower	Upper
42	100		
72	42.7	32.8	49.2
71	38.5	31.0	46.4

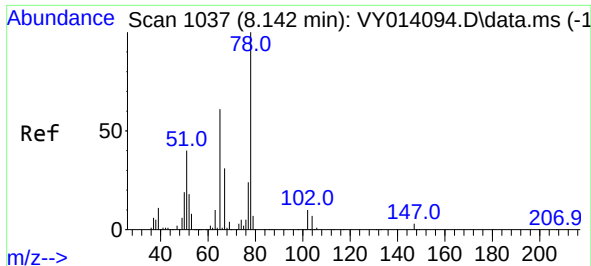


#31
Cyclohexane
Concen: 3.626 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.012 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 56 Resp: 12165

Ion	Ratio	Lower	Upper
56	100		
69	58.1	27.8	41.6#
84	61.2	66.4	99.6#

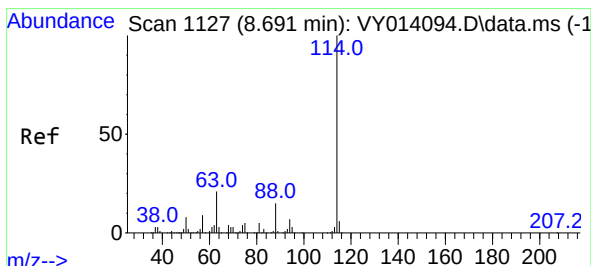
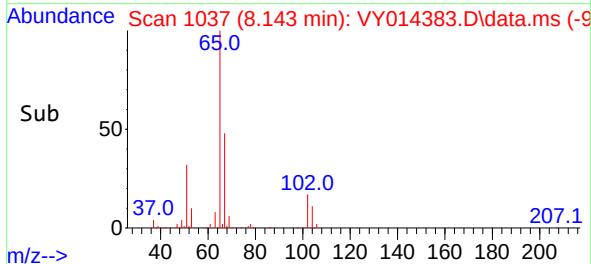
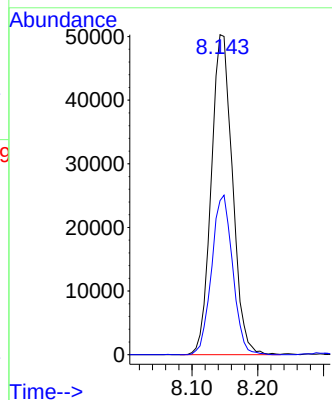
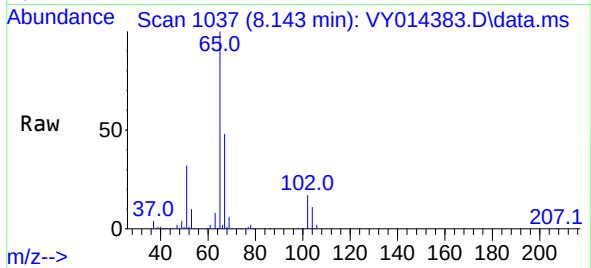




#33
1,2-Dichloroethane-d4
Concen: 45.094 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.001 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

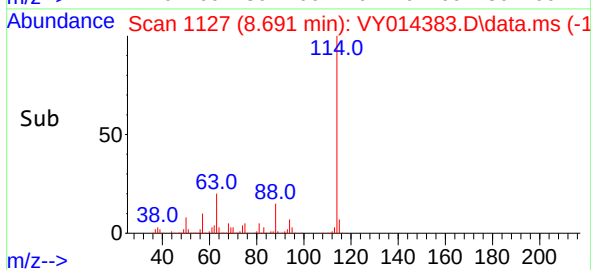
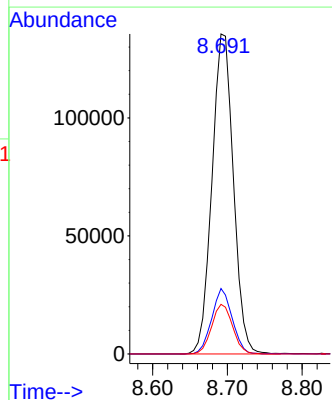
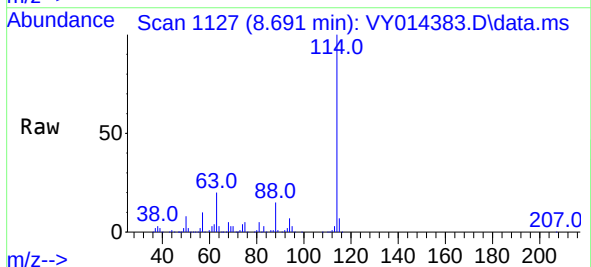
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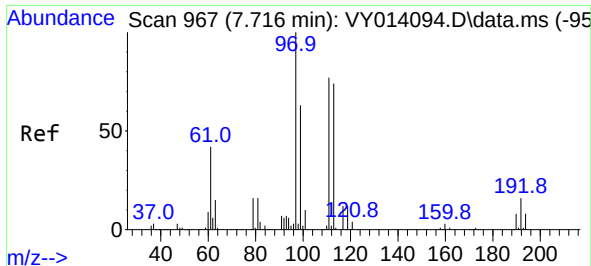
Tgt Ion: 65 Resp: 112937
Ion Ratio Lower Upper
65 100
67 49.3 0.0 101.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 114 Resp: 270230
Ion Ratio Lower Upper
114 100
63 20.5 0.0 42.4
88 15.5 0.0 30.6

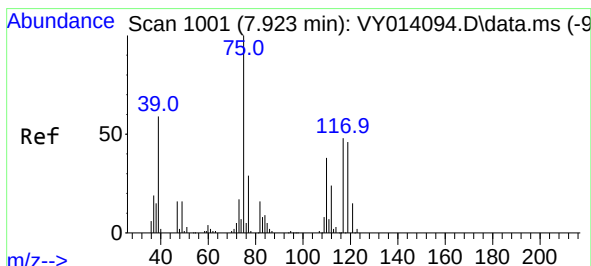
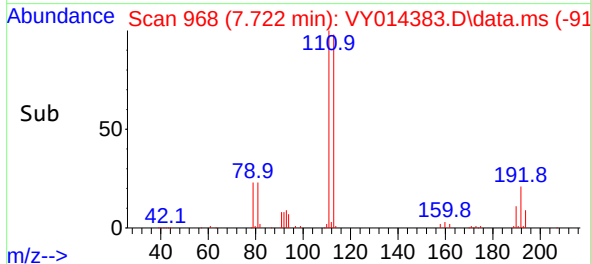
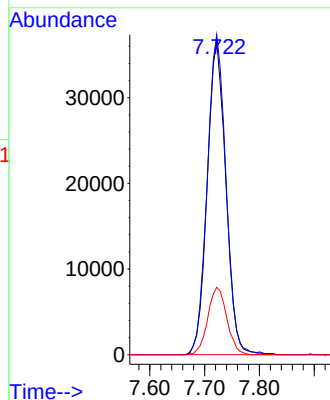
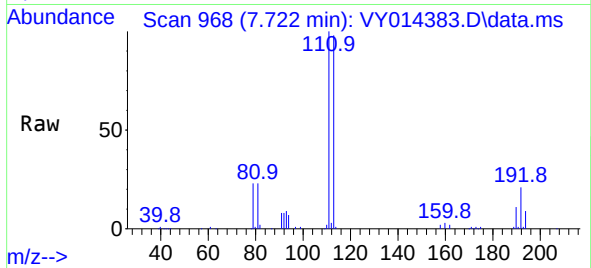




#35
Dibromofluoromethane
Concen: 44.999 ug/l
RT: 7.722 min Scan# 911
Delta R.T. 0.006 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

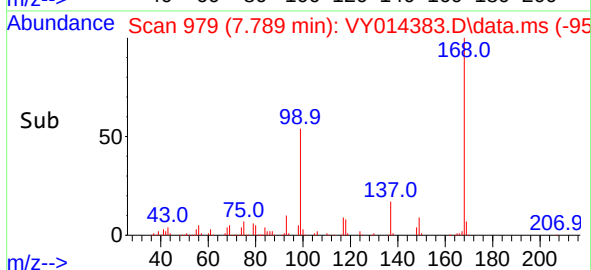
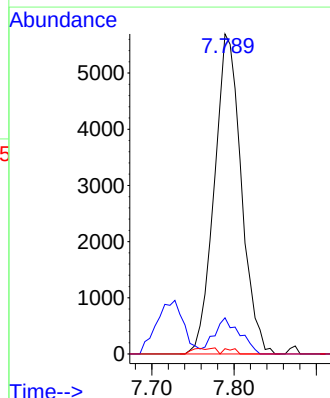
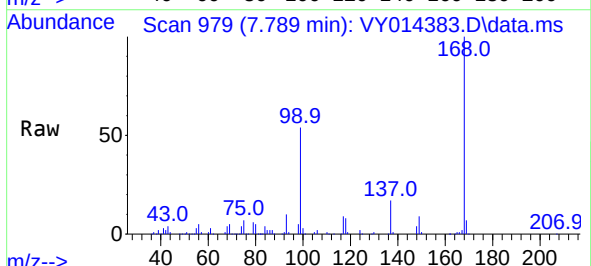
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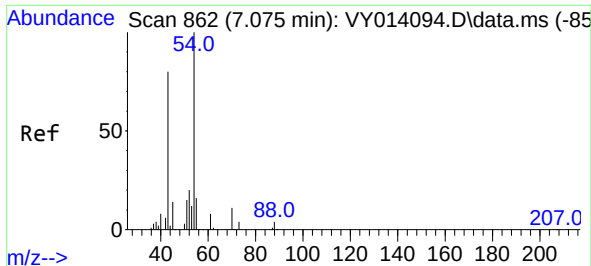
Tgt Ion:113 Resp: 86237
Ion Ratio Lower Upper
113 100
111 102.7 81.3 121.9
192 21.9 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.332 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.134 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 75 Resp: 12942
Ion Ratio Lower Upper
75 100
110 10.8 17.8 53.5#
77 1.5 24.4 36.6#





#37

Ethyl Acetate

Concen: 9.915 ug/l

RT: 6.996 min Scan# 84

Delta R.T. -0.079 min

Lab File: VY014383.D

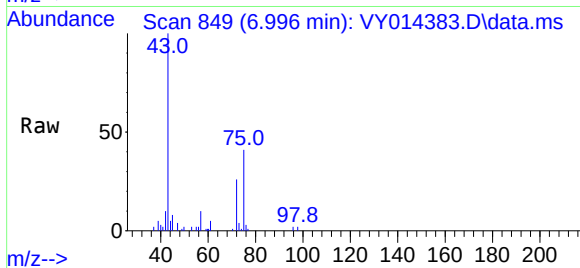
Acq: 22 Jun 2023 16:49

Instrument :

MSVOA_Y

ClientSampleId :

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



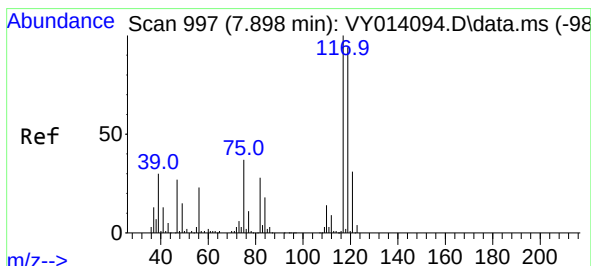
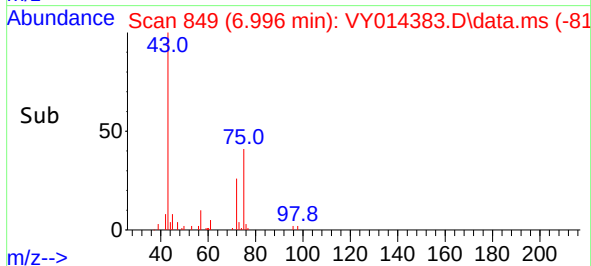
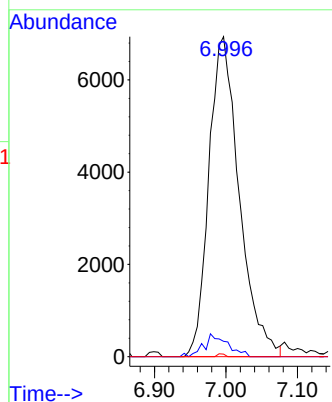
Tgt Ion: 43 Resp: 20440

Ion Ratio Lower Upper

43 100

61 5.5 10.1 15.1#

70 0.2 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.937 ug/l

RT: 7.795 min Scan# 980

Delta R.T. -0.103 min

Lab File: VY014383.D

Acq: 22 Jun 2023 16:49

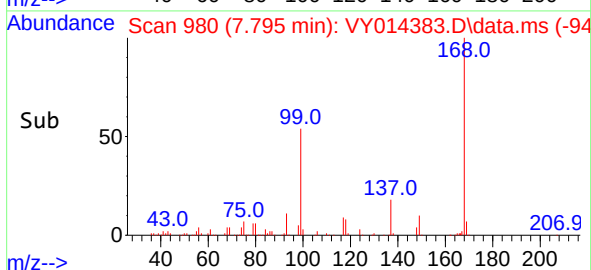
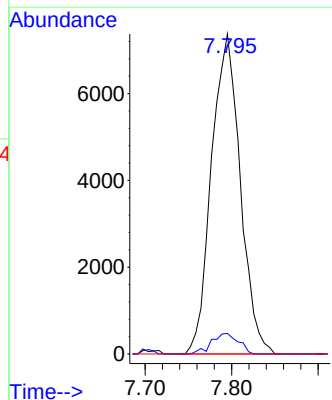
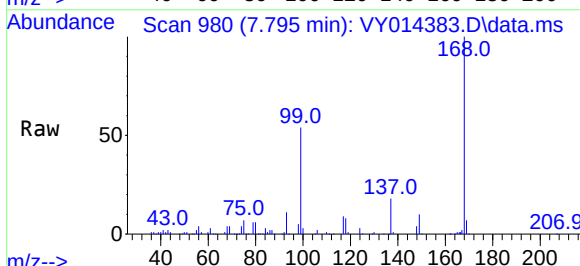
Tgt Ion: 117 Resp: 17021

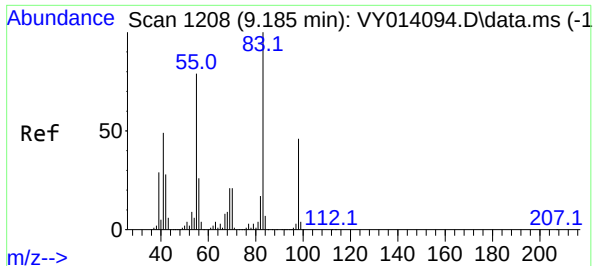
Ion Ratio Lower Upper

117 100

119 6.4 76.4 114.6#

121 0.0 25.8 38.6#





#39

Methylcyclohexane

Concen: 2.005 ug/l

RT: 9.185 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY014383.D

Acq: 22 Jun 2023 16:49

Instrument :

MSVOA_Y

ClientSampleId :

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

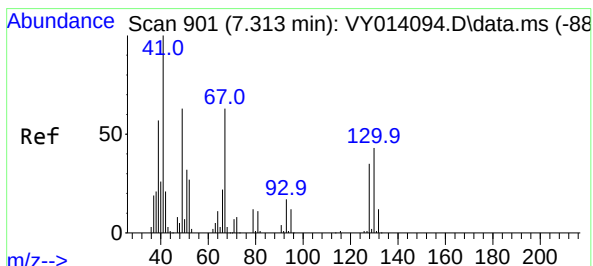
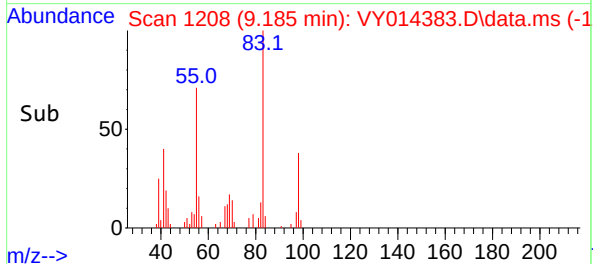
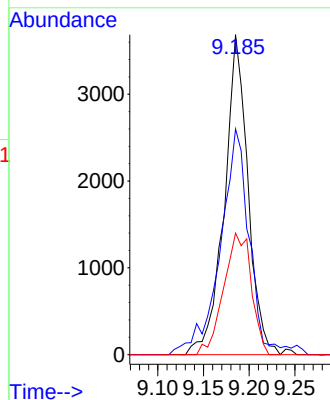
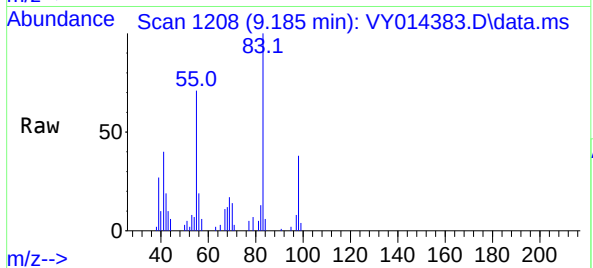
Tgt Ion: 83 Resp: 6645

Ion Ratio Lower Upper

83 100

55 68.4 63.0 94.4

98 38.0 37.4 56.2



#41

Methacrylonitrile

Concen: 1.846 ug/l

RT: 7.356 min Scan# 908

Delta R.T. 0.043 min

Lab File: VY014383.D

Acq: 22 Jun 2023 16:49

Tgt Ion: 41 Resp: 1942

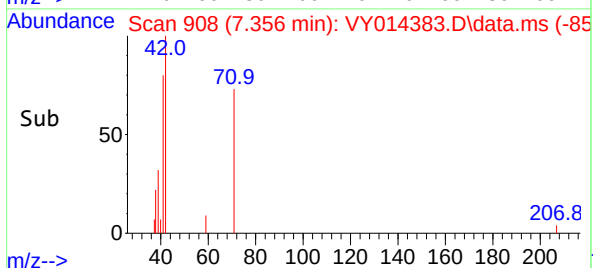
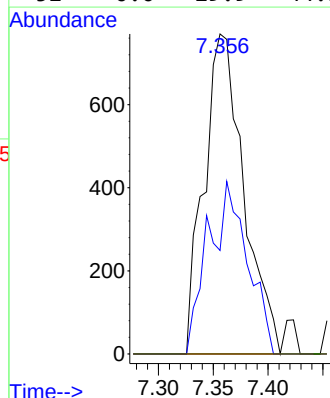
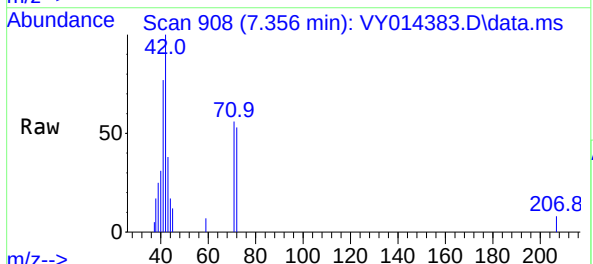
Ion Ratio Lower Upper

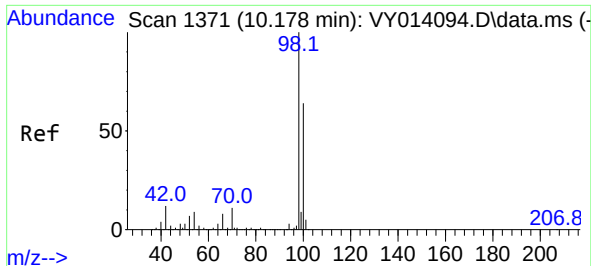
41 100

39 53.3 52.1 78.1

67 0.0 66.2 99.2#

52 0.0 29.9 44.9#

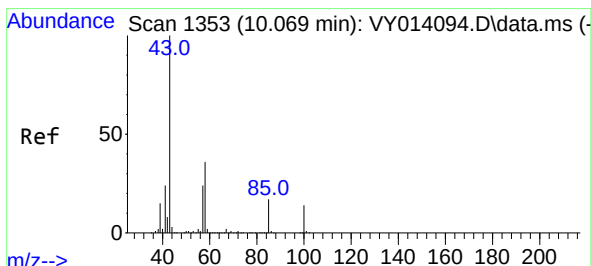
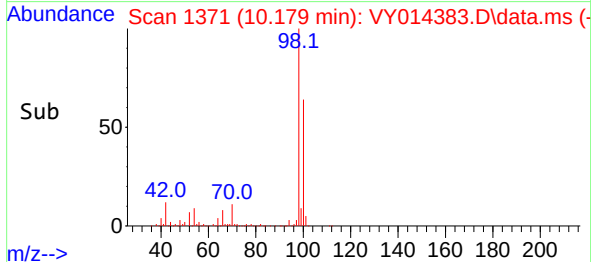
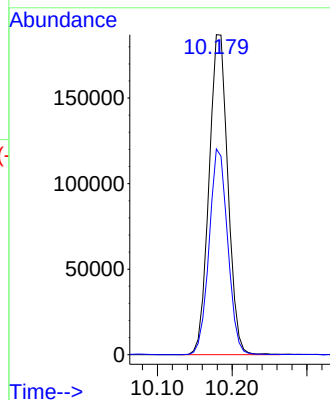
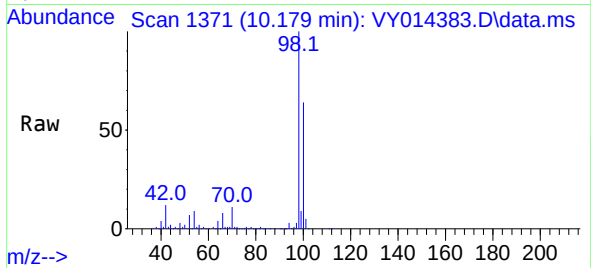




#50
Toluene-d8
Concen: 45.777 ug/l
RT: 10.179 min Scan# 11
Delta R.T. 0.001 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

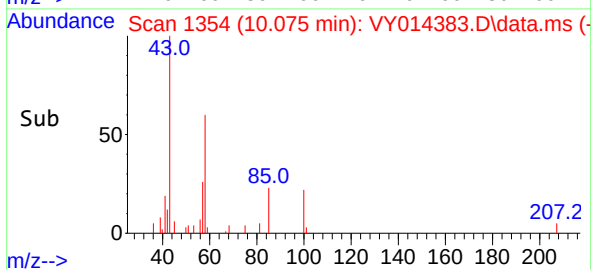
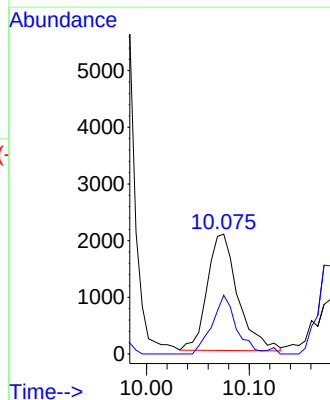
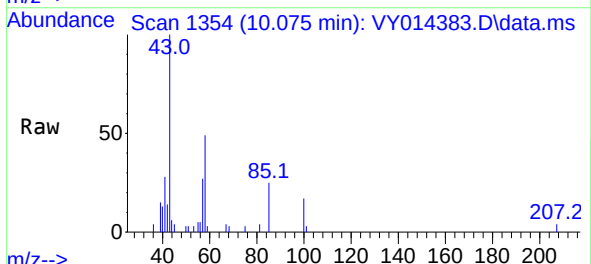
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4RE

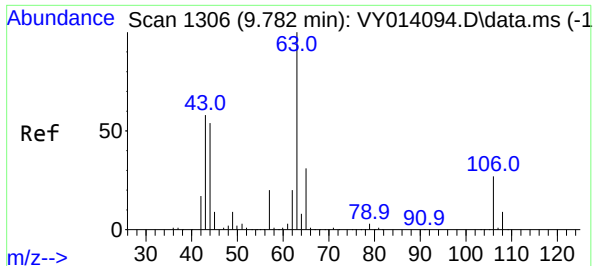
Tgt Ion: 98 Resp: 327980
Ion Ratio Lower Upper
98 100
100 63.3 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 2.180 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.006 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 43 Resp: 4280
Ion Ratio Lower Upper
43 100
58 39.5 29.0 43.6

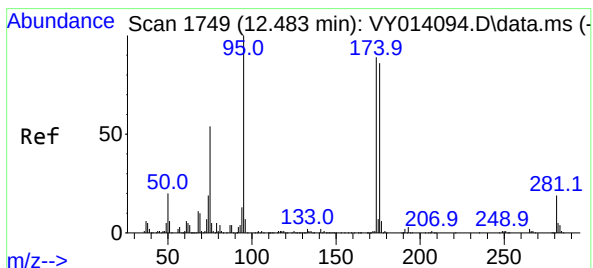
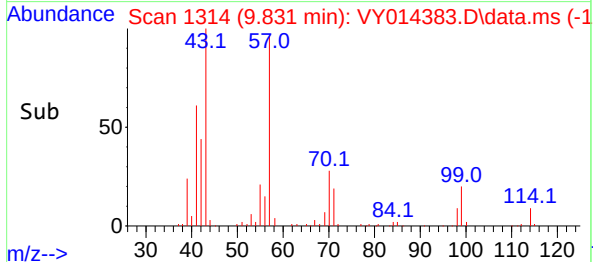
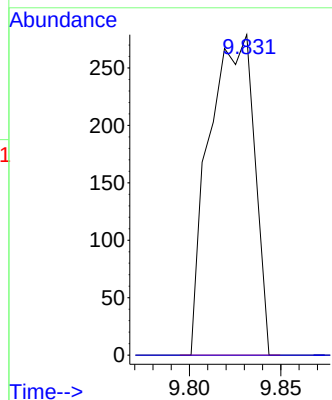
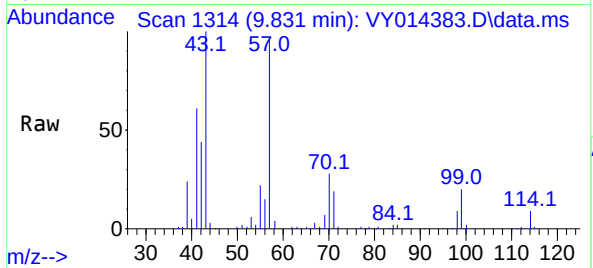




#58
2-Chloroethyl Vinyl ether
Concen: 28.992 ug/l
RT: 9.831 min Scan# 11
Delta R.T. 0.049 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

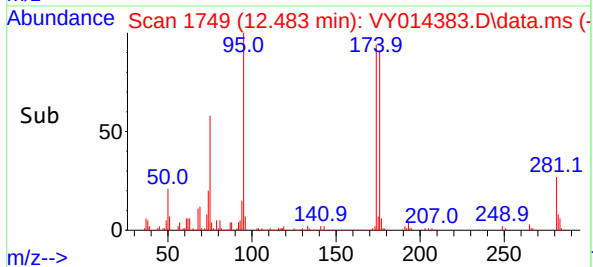
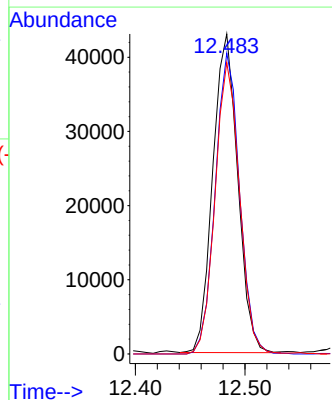
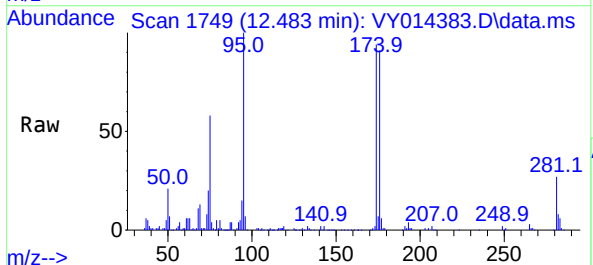
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4RE

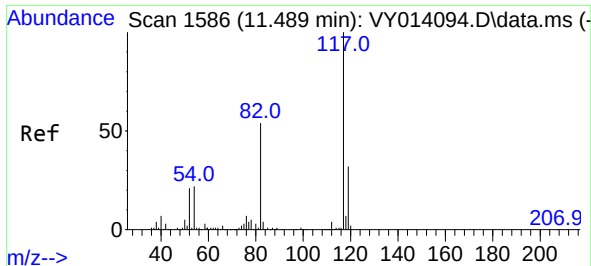
Tgt Ion: 63 Resp: 478
Ion Ratio Lower Upper
63 100
106 0.0 21.2 31.8#



#62
4-Bromofluorobenzene
Concen: 26.642 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 95 Resp: 67807
Ion Ratio Lower Upper
95 100
174 92.6 0.0 178.2
176 90.0 0.0 173.8

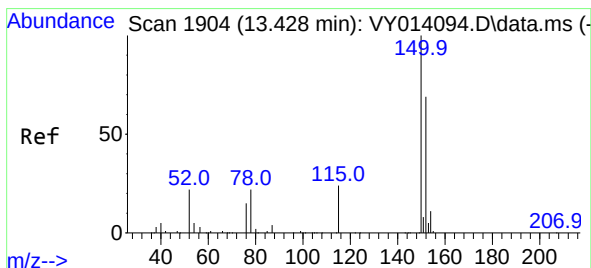
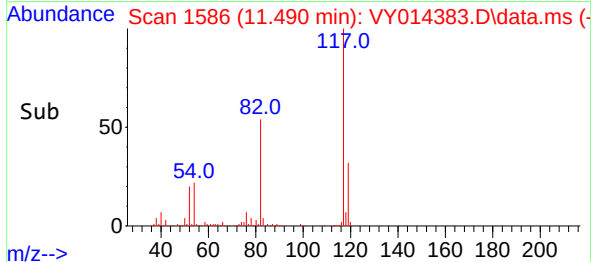
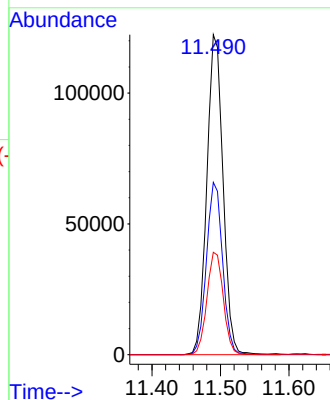
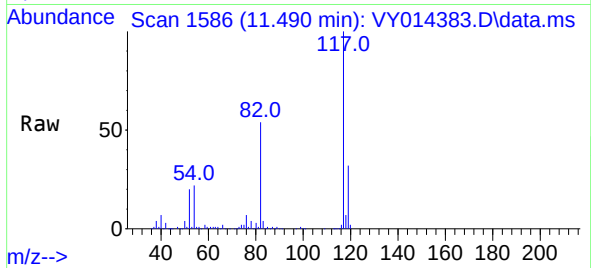




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 117
Delta R.T. 0.001 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

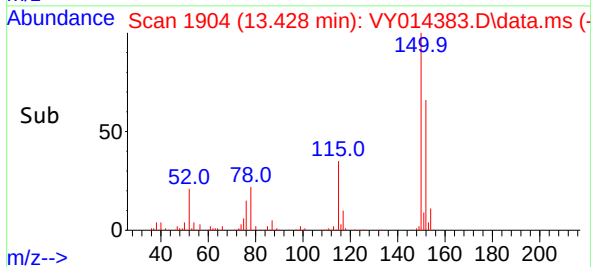
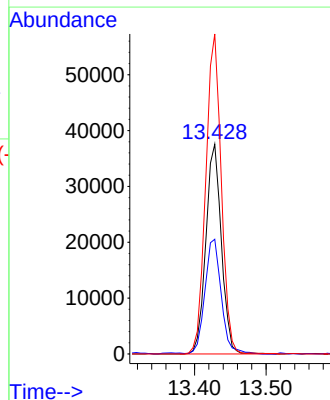
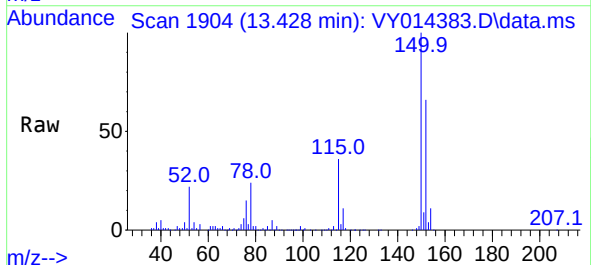
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4RE

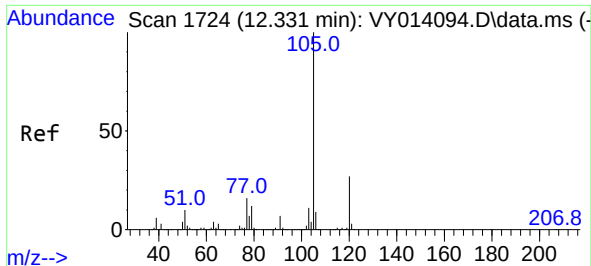
Tgt Ion:117 Resp: 201055
Ion Ratio Lower Upper
117 100
82 53.8 43.4 65.0
119 32.0 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion:152 Resp: 56677
Ion Ratio Lower Upper
152 100
115 57.6 28.8 86.5
150 152.6 0.0 348.8

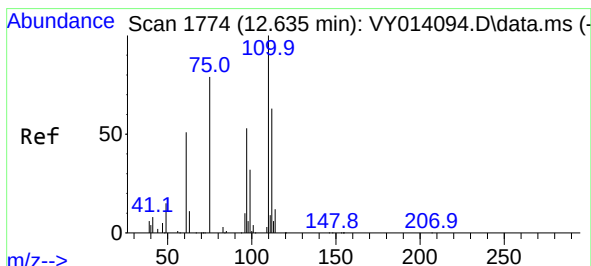
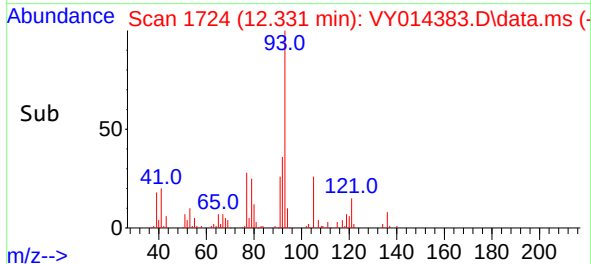
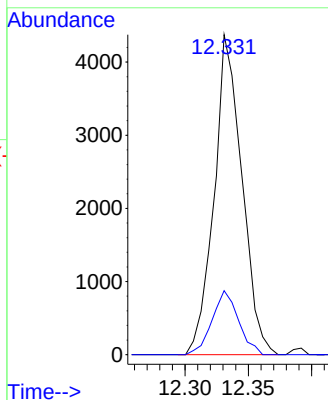
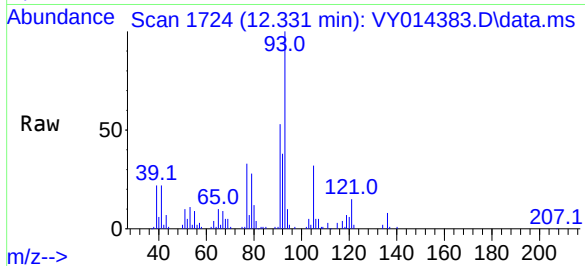




#73
Isopropylbenzene
Concen: 1.545 ug/l
RT: 12.331 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

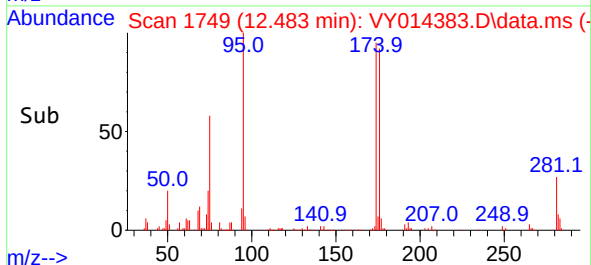
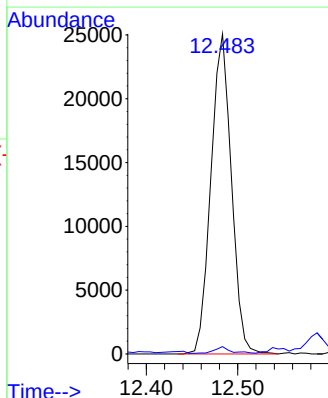
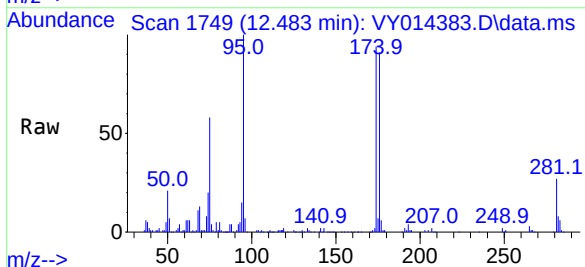
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4RE

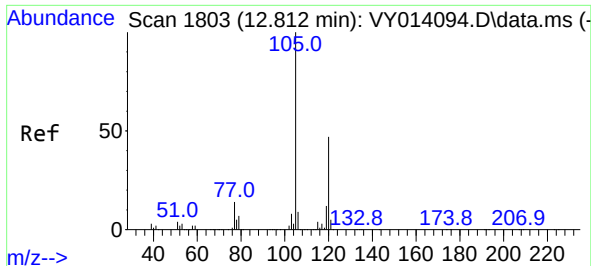
Tgt Ion:105 Resp: 6678
Ion Ratio Lower Upper
105 100
120 19.1 13.3 39.9



#76
1,2,3-Trichloropropane
Concen: 52.413 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 75 Resp: 38974
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#

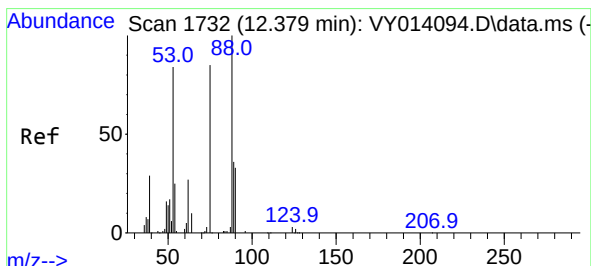
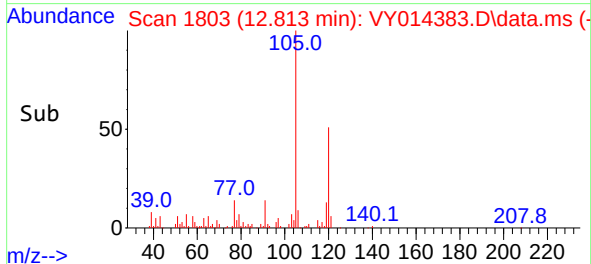
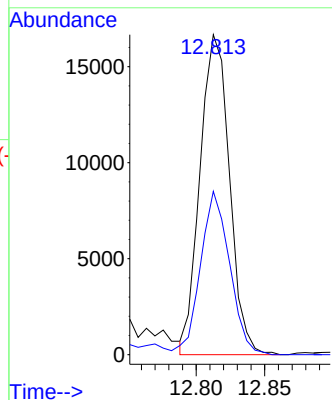
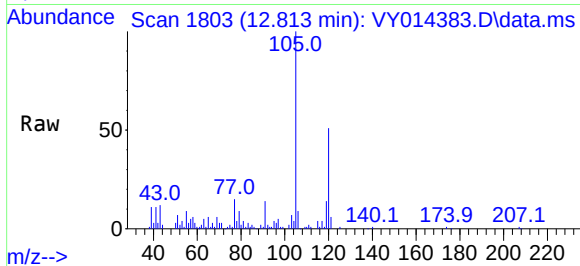




#80
 1,3,5-Trimethylbenzene
 Concen: 6.737 ug/l
 RT: 12.813 min Scan# 1749
 Delta R.T. 0.001 min
 Lab File: VY014383.D
 Acq: 22 Jun 2023 16:49

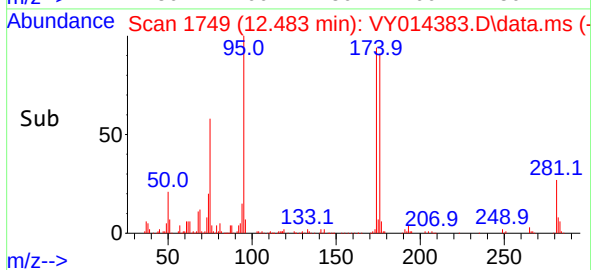
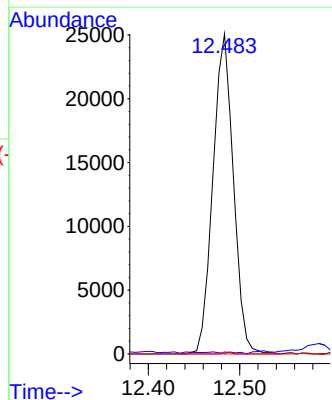
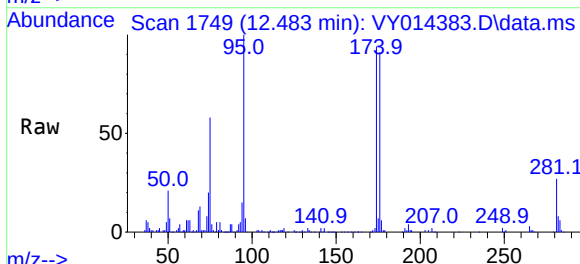
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-TP6-09-10S-4RE

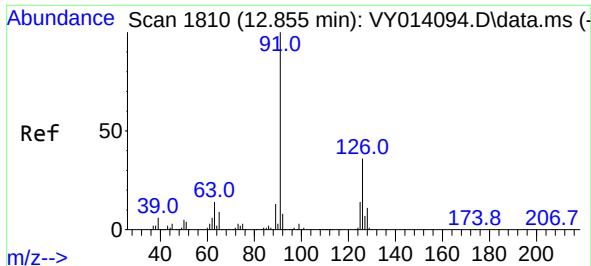
Tgt Ion:105 Resp: 24940
 Ion Ratio Lower Upper
 105 100
 120 50.5 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 113.297 ug/l
 RT: 12.483 min Scan# 1749
 Delta R.T. 0.104 min
 Lab File: VY014383.D
 Acq: 22 Jun 2023 16:49

Tgt Ion: 75 Resp: 38974
 Ion Ratio Lower Upper
 75 100
 53 0.3 77.8 116.8#
 89 0.3 37.4 56.0#

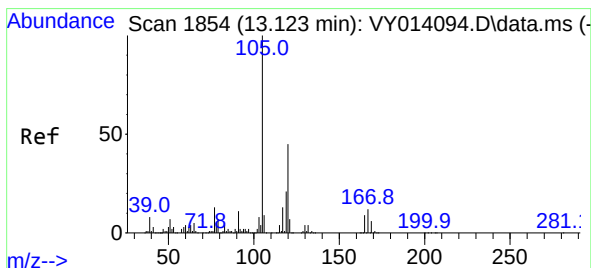
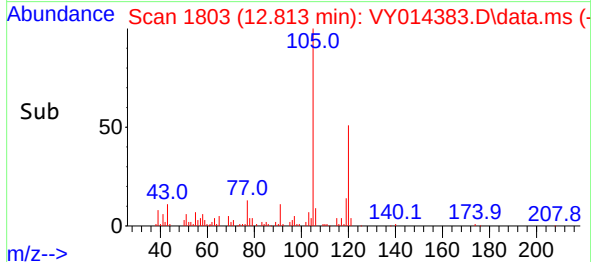
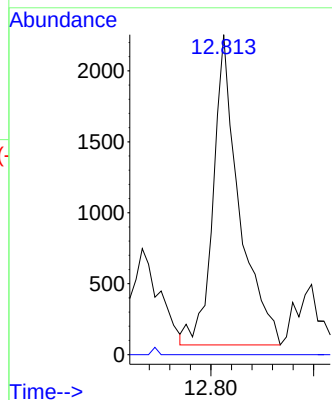
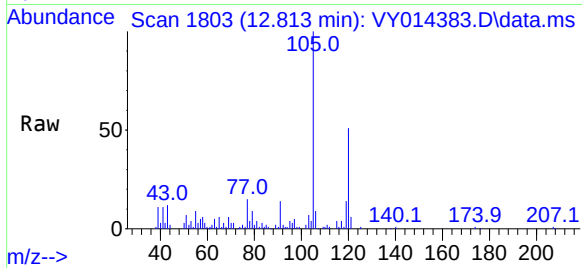




#82
4-Chlorotoluene
Concen: 1.193 ug/l
RT: 12.813 min Scan# 1810
Delta R.T. -0.043 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

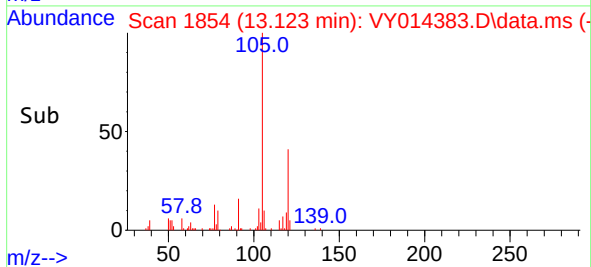
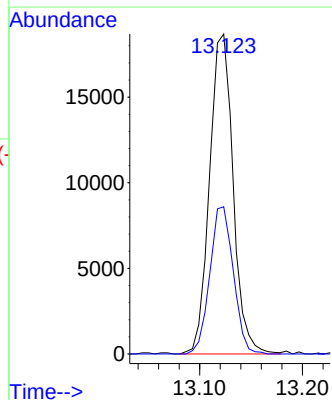
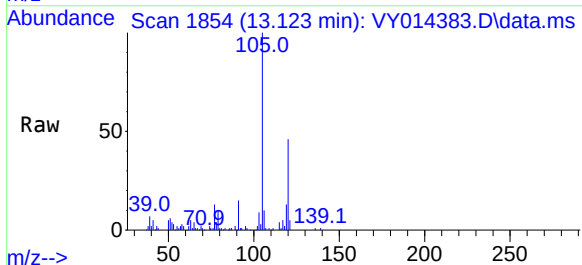
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-09-10S-4RE

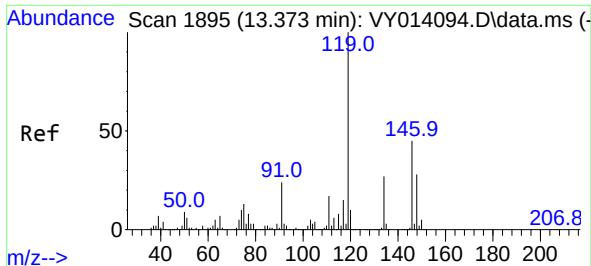
Tgt Ion: 91 Resp: 3841
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#84
1,2,4-Trimethylbenzene
Concen: 8.124 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.000 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion: 105 Resp: 29771
Ion Ratio Lower Upper
105 100
120 45.9 22.2 66.6

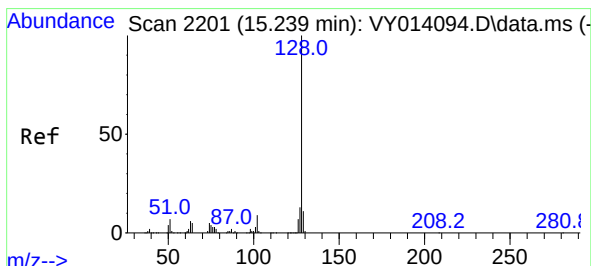
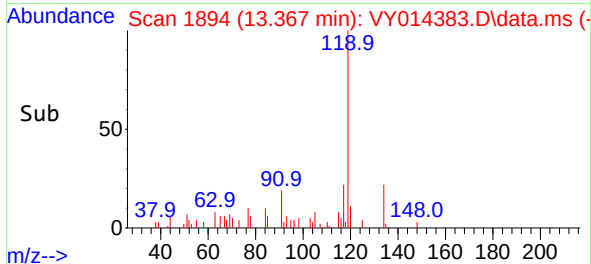
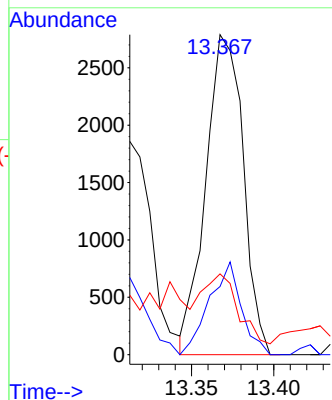
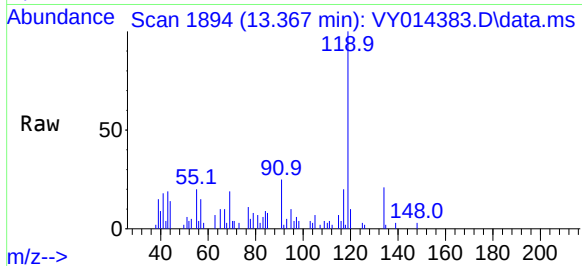




#86
p-Isopropyltoluene
Concen: 1.129 ug/l
RT: 13.367 min Scan# 1189
Delta R.T. -0.006 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

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

Tgt Ion:	119	Resp:	4418
Ion	Ratio	Lower	Upper
119	100		
134	24.9	13.3	39.8
91	21.0	12.4	37.4



#95
Naphthalene
Concen: 2.889 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.006 min
Lab File: VY014383.D
Acq: 22 Jun 2023 16:49

Tgt Ion:	128	Resp:	7240
Ion	Ratio	Lower	Upper
128	100		
127	15.5	10.8	16.2
129	13.1	8.6	13.0

