

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020723\
 Data File : VY012528.D
 Acq On : 07 Feb 2023 18:57
 Operator : KP/MD
 Sample : 01465-06
 Misc : 3.15g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-GRAB-8

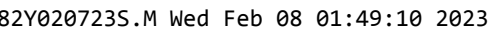
Quant Time: Feb 08 01:48:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020723S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 08 01:09:03 2023
 Response via : Initial Calibration

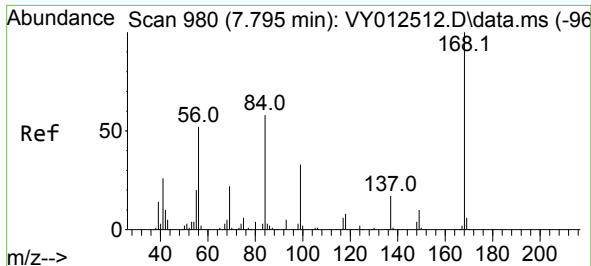
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.789	168	133396	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	215159	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	197119	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	85041	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	76098	44.861	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	89.720%		
35) Dibromofluoromethane	7.716	113	63657	40.626	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	81.260%		
50) Toluene-d8	10.179	98	251225	38.520	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	77.040%		
62) 4-Bromofluorobenzene	12.483	95	81184	35.687	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	71.380%		
Target Compounds						Qvalue
4) Vinyl Chloride	2.253	62	5901	4.557	ug/l	94
5) Bromomethane	2.668	94	182	Below Cal	#	51
11) Tert butyl alcohol	4.942	59	116	Below Cal	#	75
16) Acetone	3.948	43	44368	108.673	ug/l	99
17) Carbon Disulfide	4.198	76	102682	29.810	ug/l	96
20) Methylene Chloride	4.710	84	2815	Below Cal		97
25) 2-Butanone	6.984	43	10864	23.983	ug/l	94
27) cis-1,2-Dichloroethene	6.984	96	17025	10.130	ug/l	86
29) Tetrahydrofuran	7.362	42	1996	8.151	ug/l	89
31) Cyclohexane	7.789	56	2310	1.178	ug/l	# 29
36) 1,1-Dichloropropene	7.789	75	8375	3.949	ug/l	# 49
37) Ethyl Acetate	6.984	43	10864	11.353	ug/l	# 1
38) Carbon Tetrachloride	7.789	117	12845	4.512	ug/l	# 17
41) Methacrylonitrile	7.350	41	1254	2.392	ug/l	# 100
44) Trichloroethene	8.935	130	3386	1.776	ug/l	93
52) Toluene	10.246	92	9852	2.319	ug/l	99
65) Chlorobenzene	11.514	112	10345	2.213	ug/l	99
74) N-amyl acetate	12.123	43	3476	2.791	ug/l	# 58
76) 1,2,3-Trichloropropane	12.483	75	44869	47.225	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.483	75	44869	106.495	ug/l	# 12
84) 1,2,4-Trimethylbenzene	13.117	105	12040	2.066	ug/l	99
86) p-Isopropyltoluene	13.373	119	16097	2.497	ug/l	# 76
87) 1,3-Dichlorobenzene	13.446	146	12233	3.687	ug/l	# 79
88) 1,4-Dichlorobenzene	13.446	146	12233	3.681	ug/l	# 77
95) Naphthalene	15.233	128	9880	2.783	ug/l	# 88

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

Quant Time: Feb 08 01:48:58 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020723S.M
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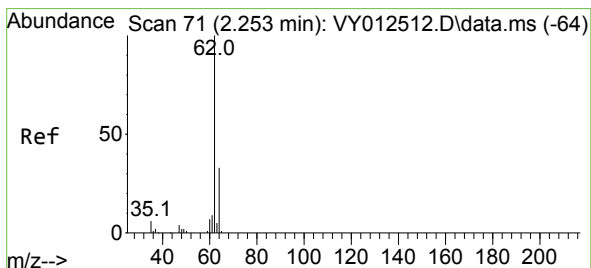
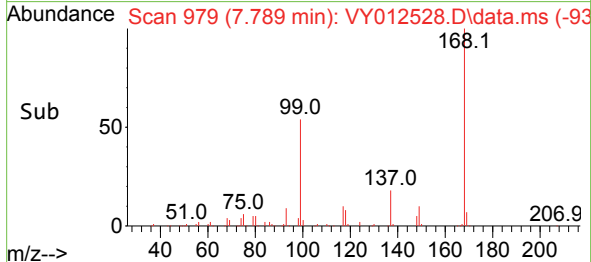
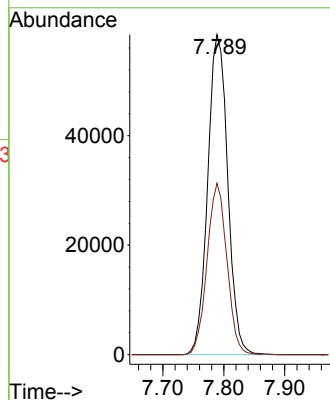
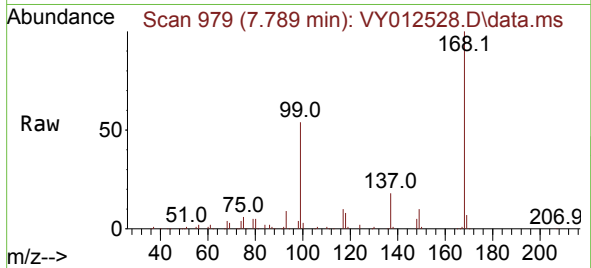




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

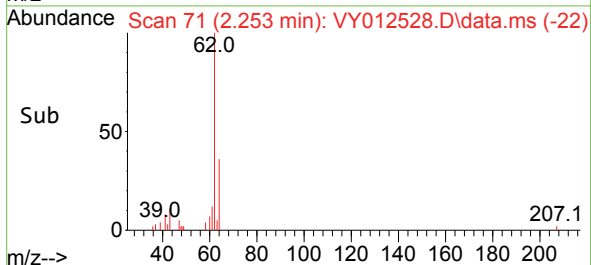
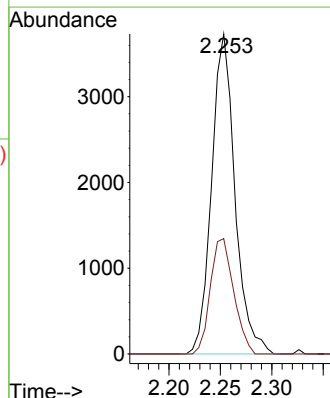
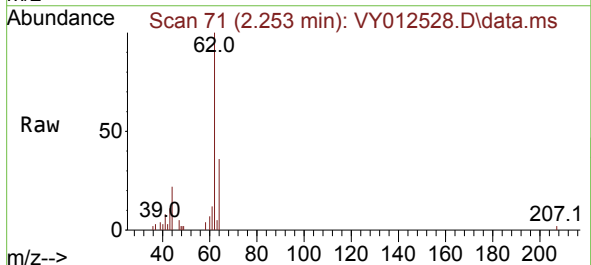
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-8

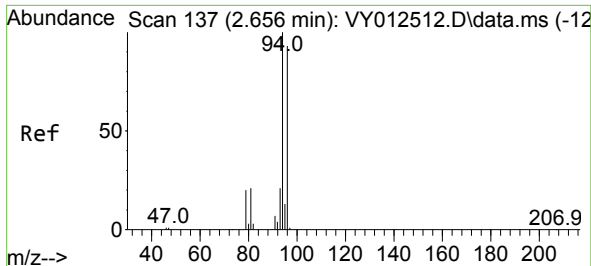
Tgt Ion:168 Resp: 133396
Ion Ratio Lower Upper
168 100
99 53.5 40.8 61.2



#4
Vinyl Chloride
Concen: 4.557 ug/l
RT: 2.253 min Scan# 71
Delta R.T. 0.000 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Tgt Ion: 62 Resp: 5901
Ion Ratio Lower Upper
62 100
64 36.0 26.1 39.1

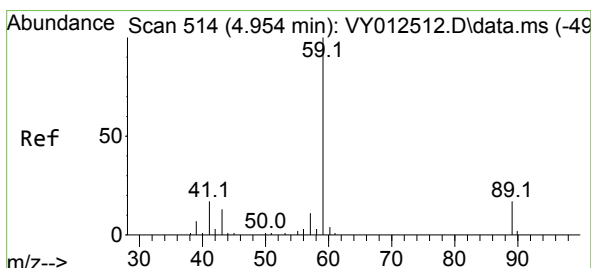
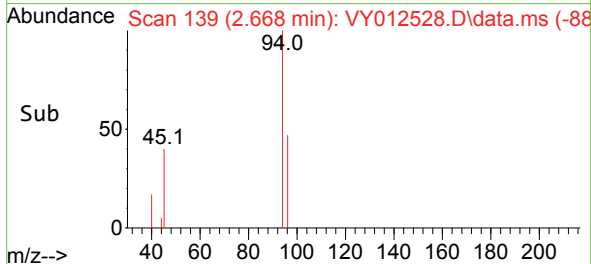
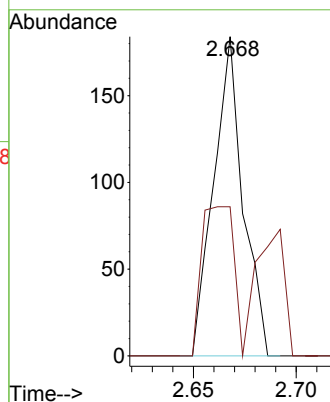
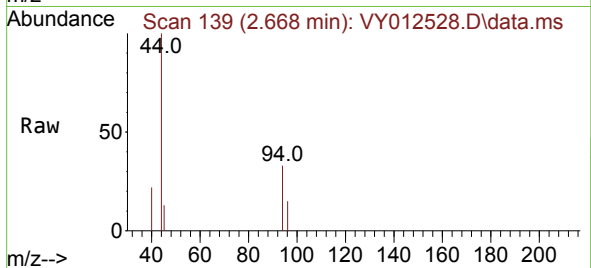




#5
Bromomethane
Concen: Below Cal
RT: 2.668 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

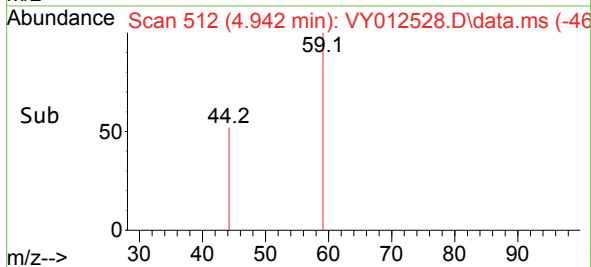
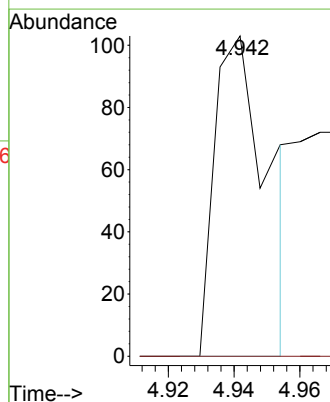
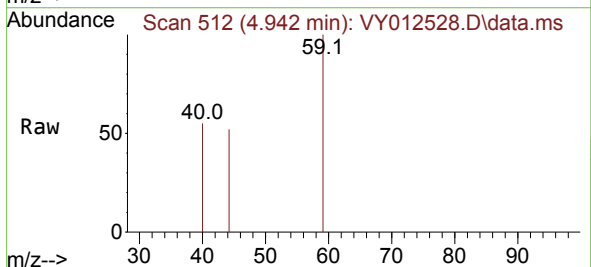
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-8

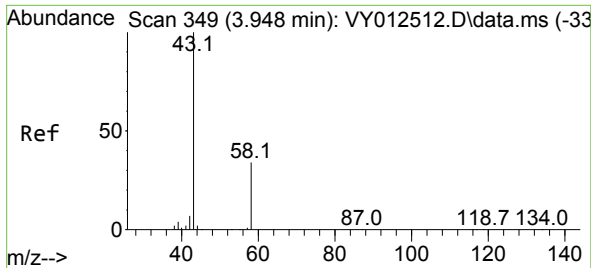
Tgt Ion: 94 Resp: 182
Ion Ratio Lower Upper
94 100
96 46.7 74.7 112.1#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.942 min Scan# 512
Delta R.T. -0.012 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Tgt Ion: 59 Resp: 116
Ion Ratio Lower Upper
59 100
57 0.0 7.2 10.8#





#16

Acetone

Concen: 108.673 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.000 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

Instrument :

MSVOA_Y

ClientSampleId :

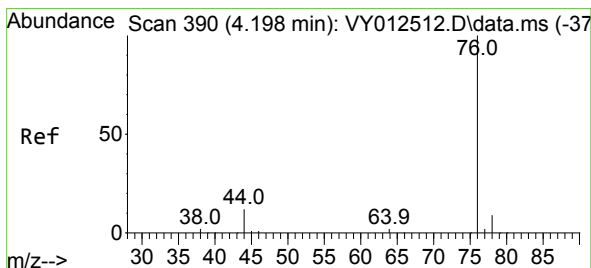
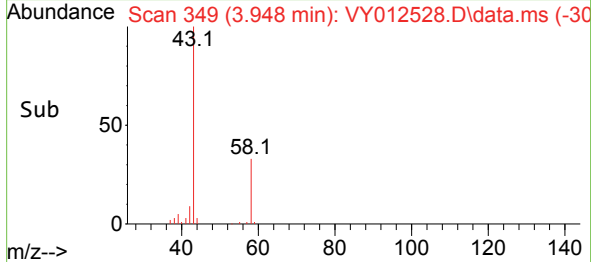
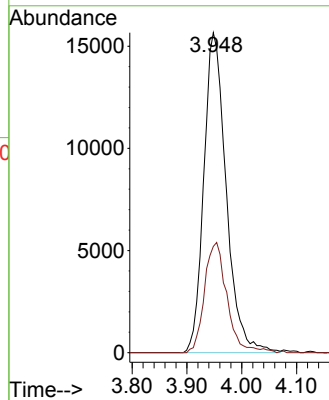
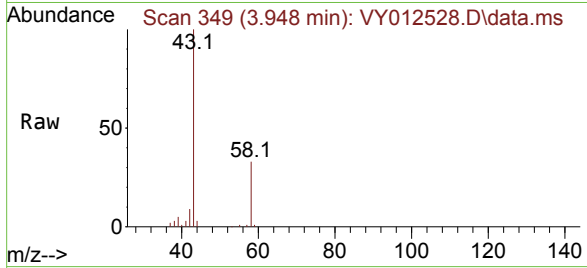
TOT-VOC-GRAB-8

Tgt Ion: 43 Resp: 44368

Ion Ratio Lower Upper

43 100

58 33.2 27.1 40.7



#17

Carbon Disulfide

Concen: 29.810 ug/l

RT: 4.198 min Scan# 390

Delta R.T. 0.000 min

Lab File: VY012528.D

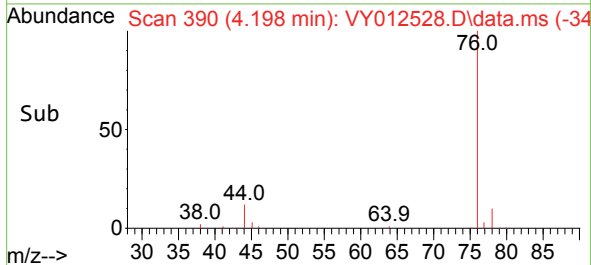
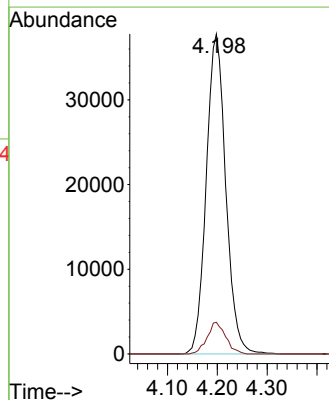
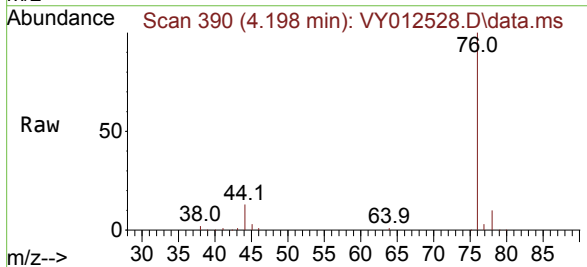
Acq: 07 Feb 2023 18:57

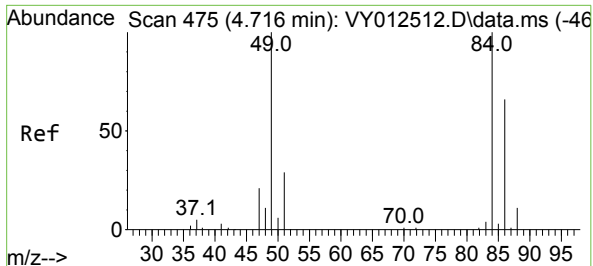
Tgt Ion: 76 Resp: 102682

Ion Ratio Lower Upper

76 100

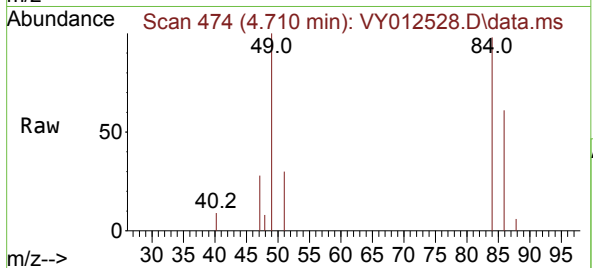
78 9.9 6.9 10.3



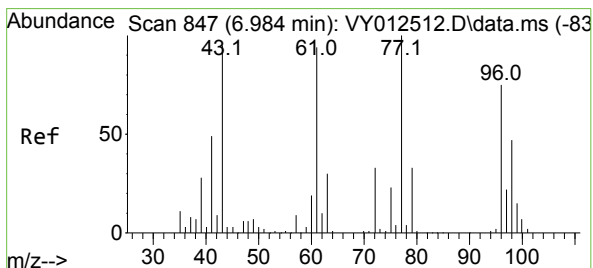
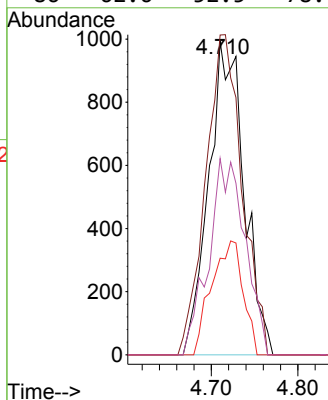
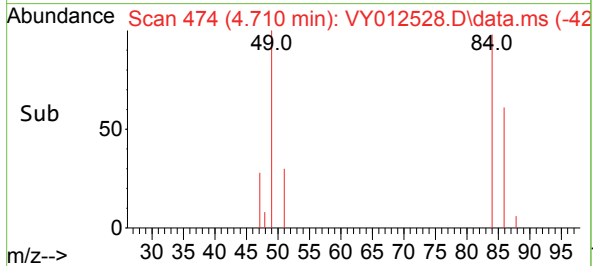


#20
Methylene Chloride
Concen: Below Cal
RT: 4.710 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-8

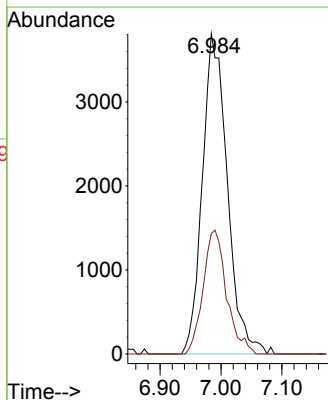
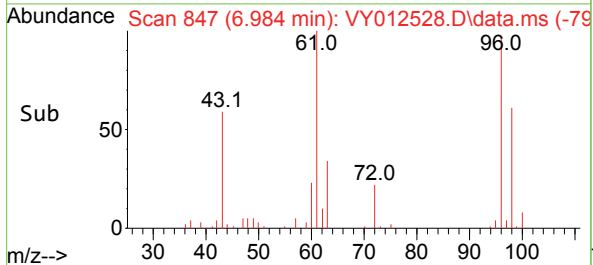
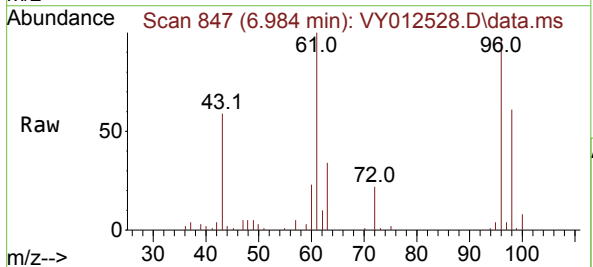


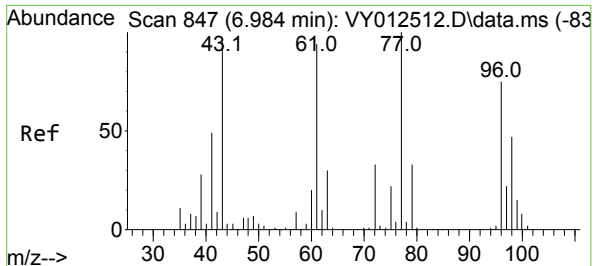
Tgt Ion: 84	Resp: 2815
Ion Ratio	Lower Upper
84 100	
49 102.0	79.8 119.6
51 30.8	23.4 35.2
86 62.6	52.5 78.7



#25
2-Butanone
Concen: 23.983 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Tgt Ion: 43	Resp: 10864
Ion Ratio	Lower Upper
43 100	
72 37.7	27.4 41.2





#27

cis-1,2-Dichloroethene

Concen: 10.130 ug/l

RT: 6.984 min Scan# 847

Delta R.T. 0.000 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-8

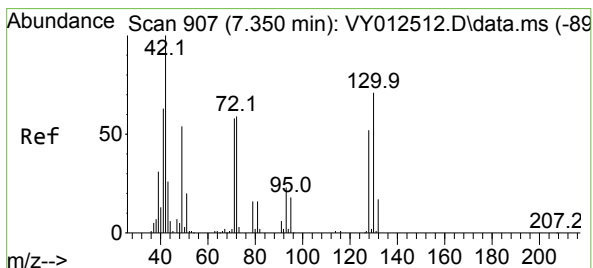
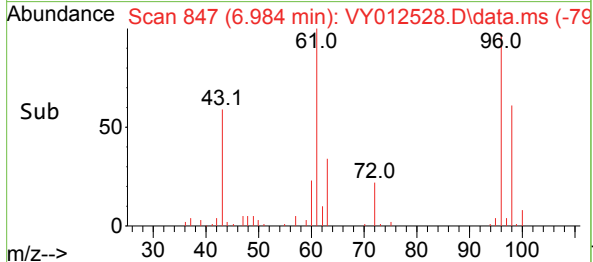
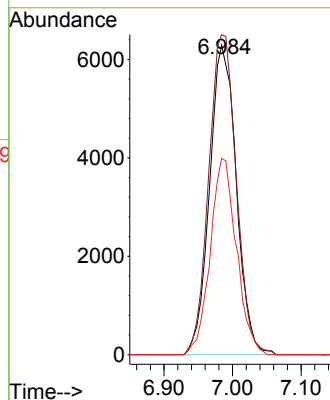
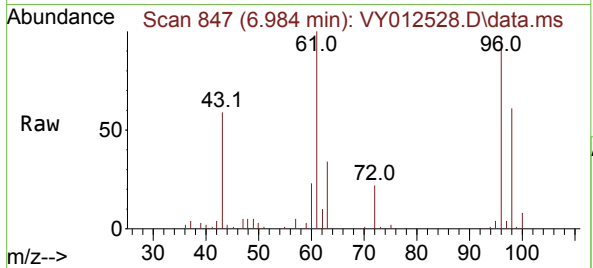
Tgt Ion: 96 Resp: 17025

Ion Ratio Lower Upper

96 100

61 106.7 0.0 259.2

98 62.2 0.0 129.0



#29

Tetrahydrofuran

Concen: 8.151 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.012 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

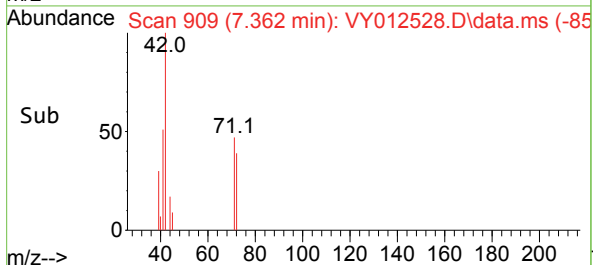
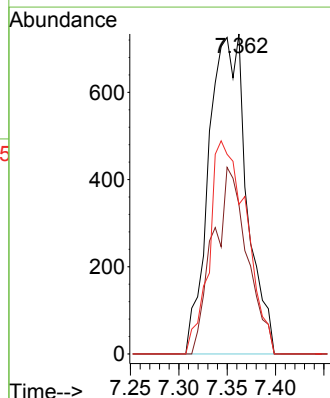
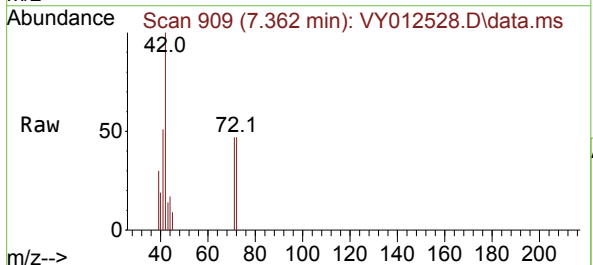
Tgt Ion: 42 Resp: 1996

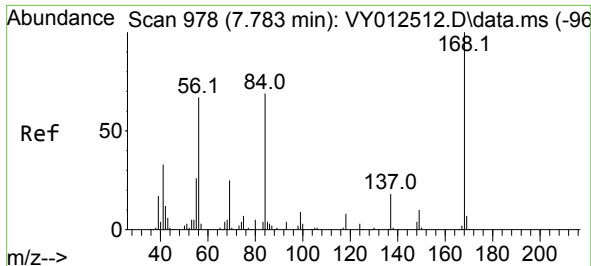
Ion Ratio Lower Upper

42 100

72 52.7 47.0 70.6

71 65.6 44.6 66.8

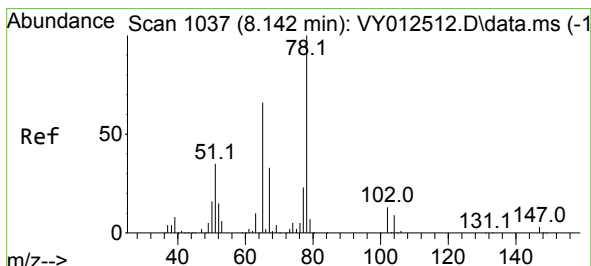
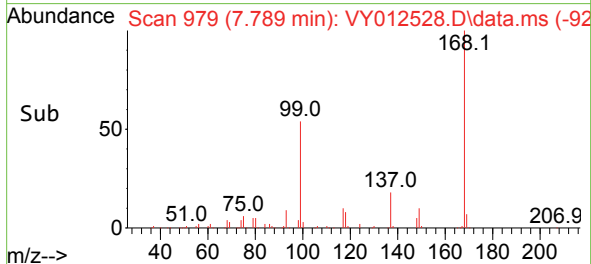
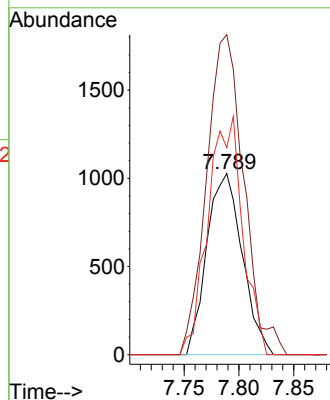
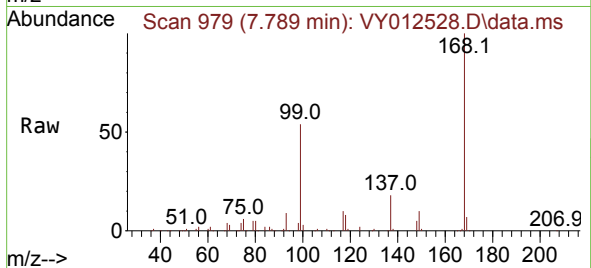




#31
Cyclohexane
Concen: 1.178 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

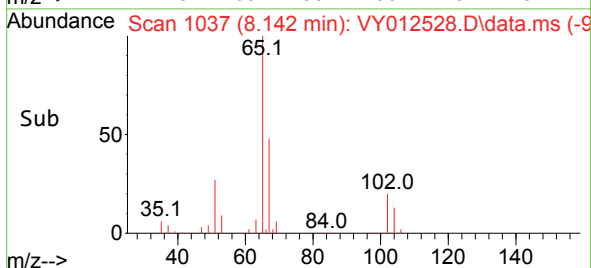
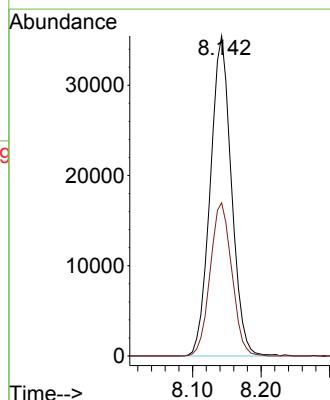
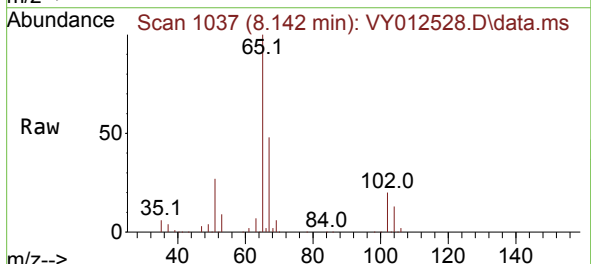
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TOT-VOC-GRAB-8

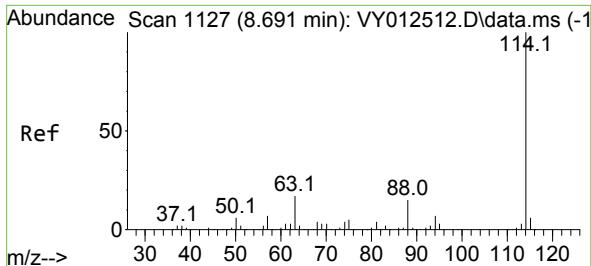
Tgt Ion: 56 Resp: 2310
Ion Ratio Lower Upper
56 100
69 176.6 29.5 44.3#
84 114.3 81.9 122.9



#33
1,2-Dichloroethane-d4
Concen: 44.861 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.000 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Tgt Ion: 65 Resp: 76098
Ion Ratio Lower Upper
65 100
67 48.9 0.0 98.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-8

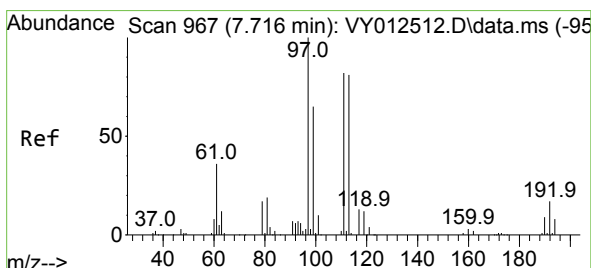
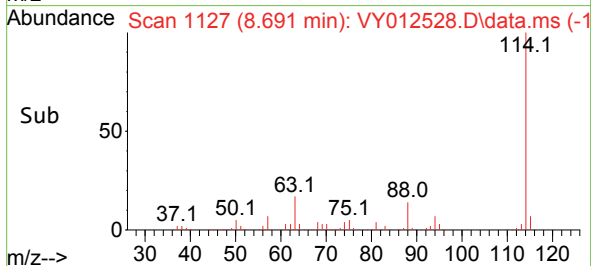
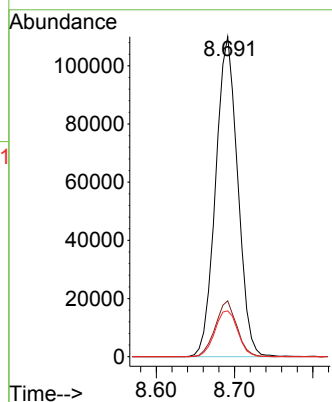
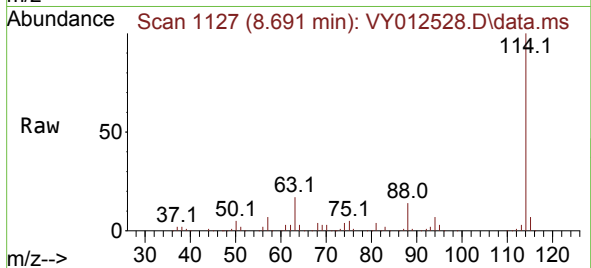
Tgt Ion:114 Resp: 215159

Ion Ratio Lower Upper

114 100

63 17.5 0.0 33.6

88 14.3 0.0 29.8



#35

Dibromofluoromethane

Concen: 40.626 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

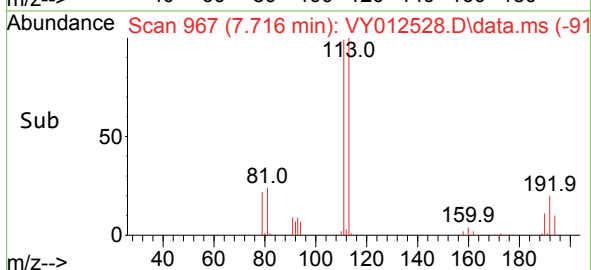
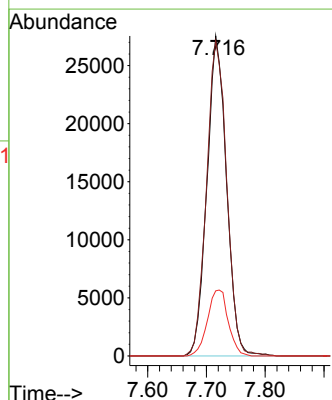
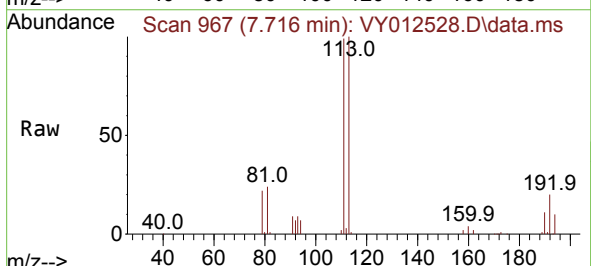
Tgt Ion:113 Resp: 63657

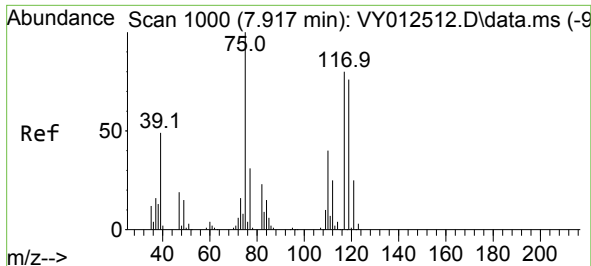
Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

192 21.9 17.5 26.3

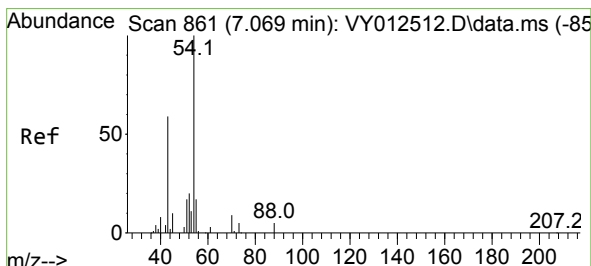
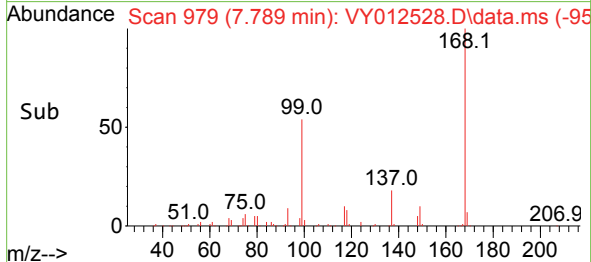
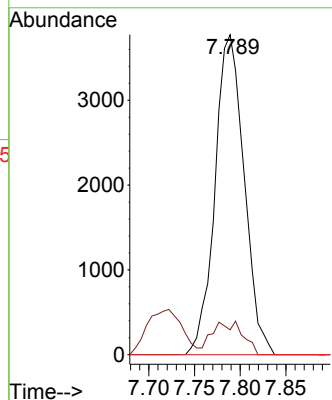
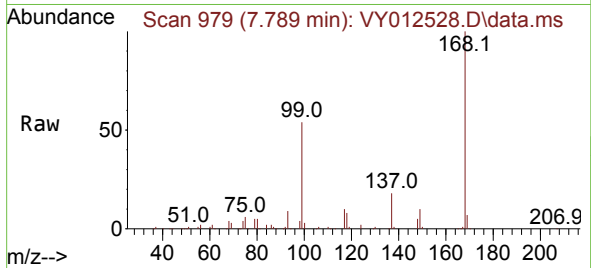




#36
1,1-Dichloropropene
Concen: 3.949 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

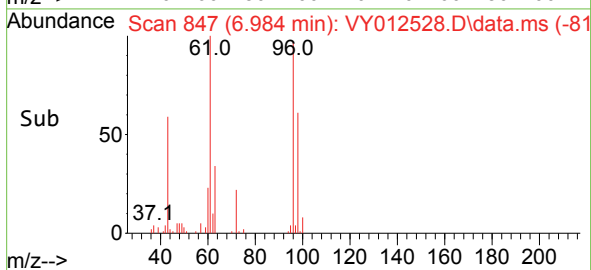
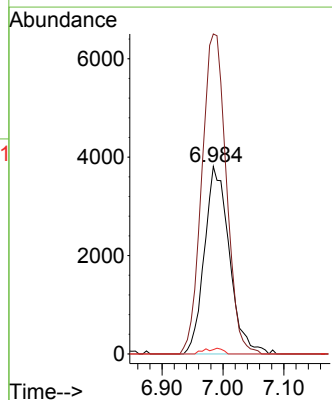
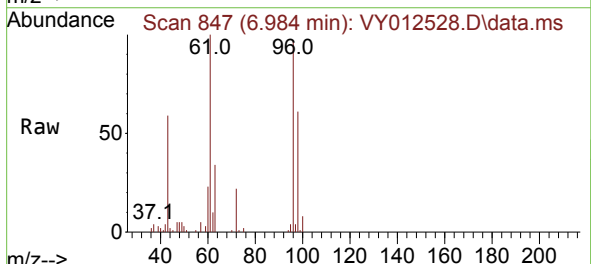
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-8

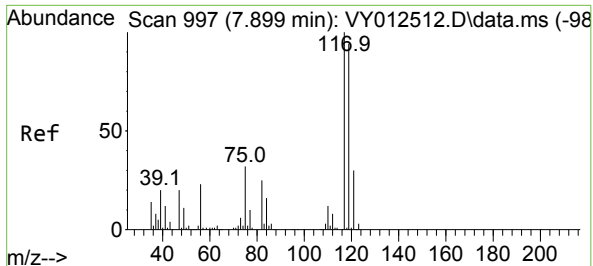
Tgt Ion: 75 Resp: 8375
Ion Ratio Lower Upper
75 100
110 10.7 19.5 58.5#
77 0.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 11.353 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.085 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

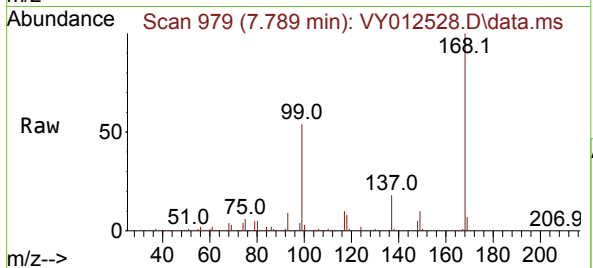
Tgt Ion: 43 Resp: 10864
Ion Ratio Lower Upper
43 100
61 167.1 12.5 18.7#
70 2.2 11.0 16.4#



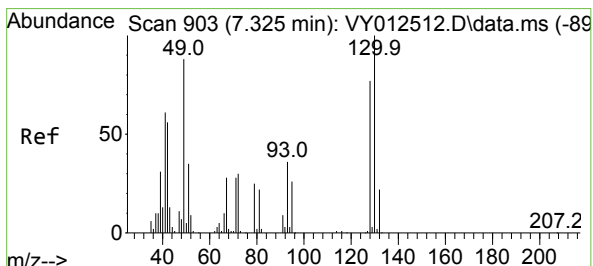
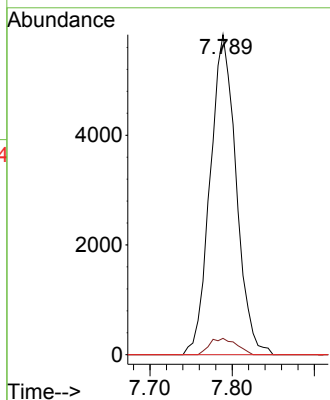
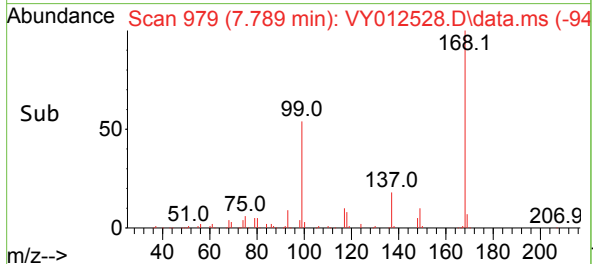


#38
Carbon Tetrachloride
Concen: 4.512 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-8

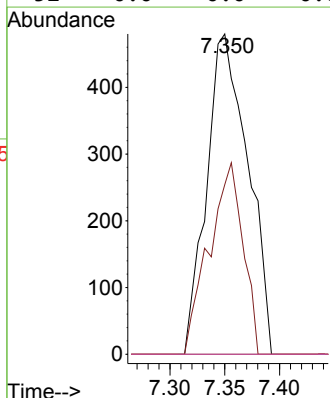
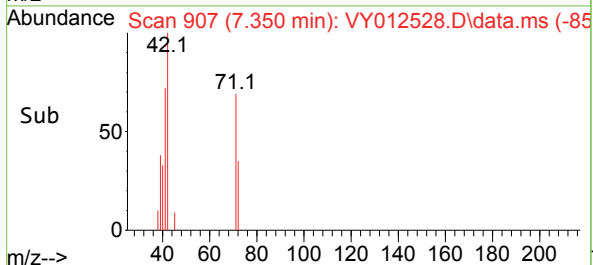
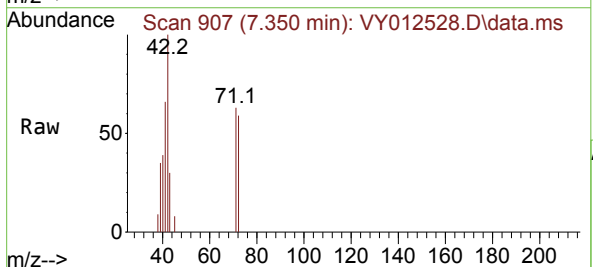


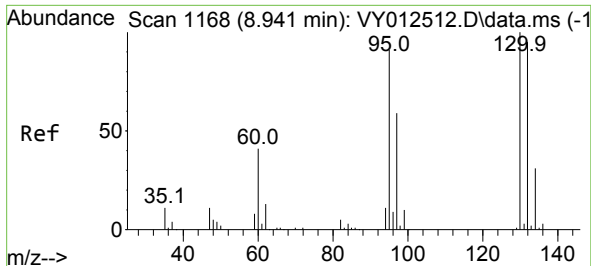
Tgt Ion:117 Resp: 12845
Ion Ratio Lower Upper
117 100
119 5.1 75.1 112.7#
121 0.0 24.3 36.5#



#41
Methacrylonitrile
Concen: 2.392 ug/l
RT: 7.350 min Scan# 907
Delta R.T. 0.024 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Tgt Ion: 41 Resp: 1254
Ion Ratio Lower Upper
41 100
39 49.3 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0

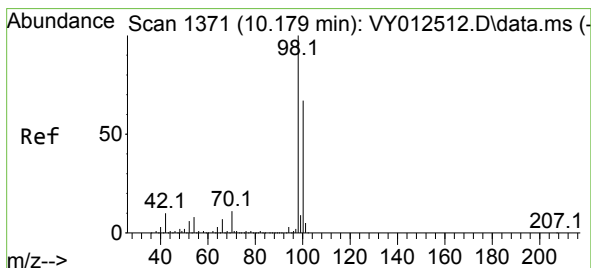
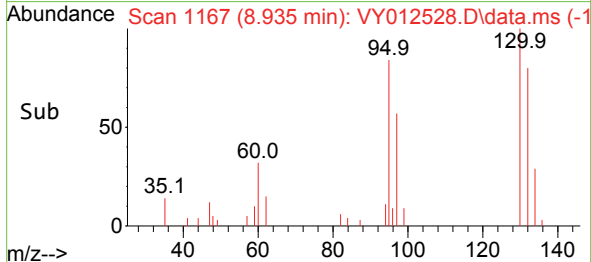
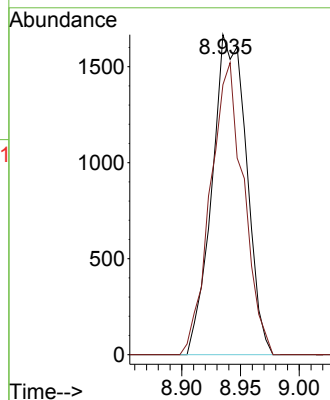
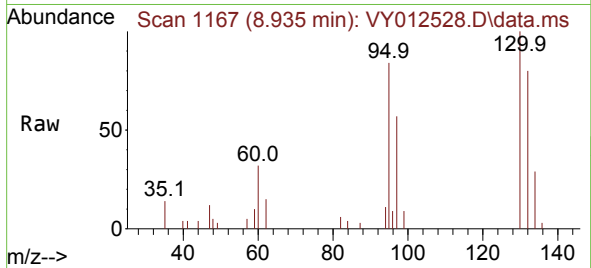




#44
 Trichloroethene
 Concen: 1.776 ug/l
 RT: 8.935 min Scan# 1167
 Delta R.T. -0.006 min
 Lab File: VY012528.D
 Acq: 07 Feb 2023 18:57

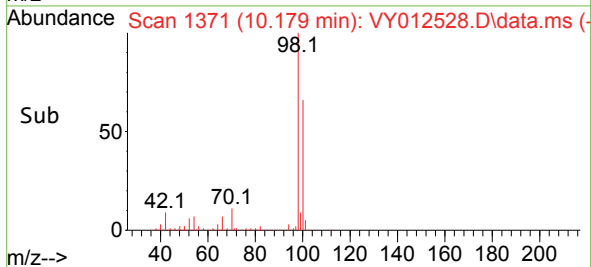
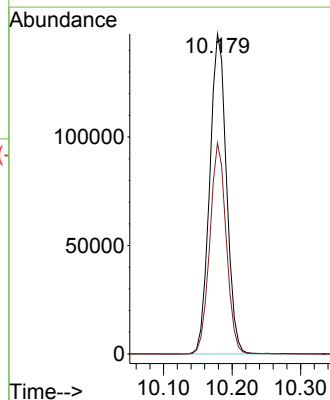
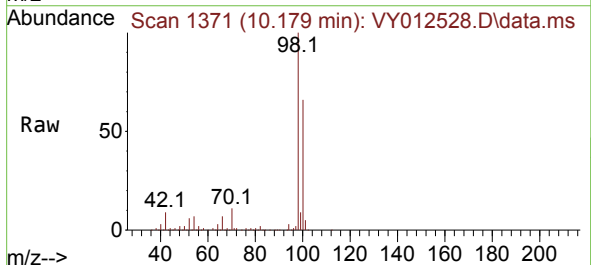
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-GRAB-8

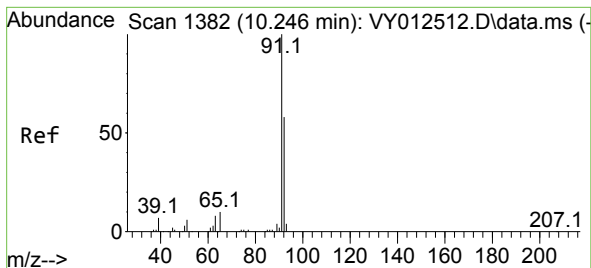
Tgt Ion:130 Resp: 3386
 Ion Ratio Lower Upper
 130 100
 95 84.3 0.0 181.2



#50
 Toluene-d8
 Concen: 38.520 ug/l
 RT: 10.179 min Scan# 1371
 Delta R.T. 0.000 min
 Lab File: VY012528.D
 Acq: 07 Feb 2023 18:57

Tgt Ion: 98 Resp: 251225
 Ion Ratio Lower Upper
 98 100
 100 64.5 52.2 78.2





#52

Toluene

Concen: 2.319 ug/l

RT: 10.246 min Scan# 1382

Delta R.T. 0.000 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

Instrument :

MSVOA_Y

ClientSampleId :

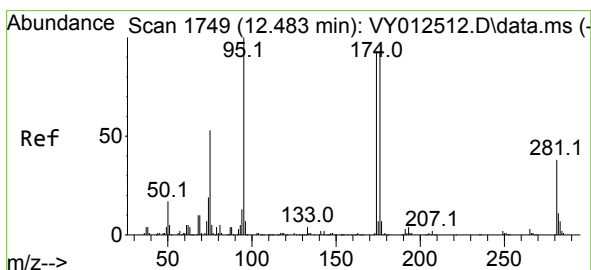
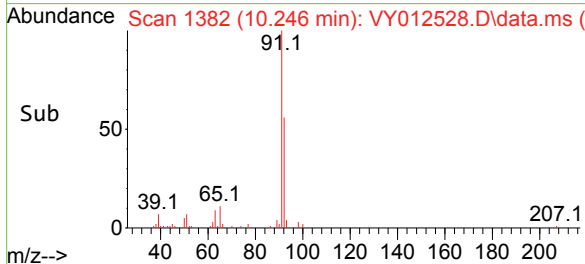
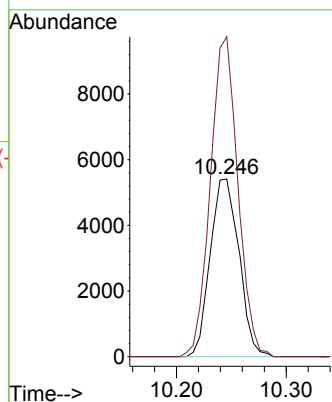
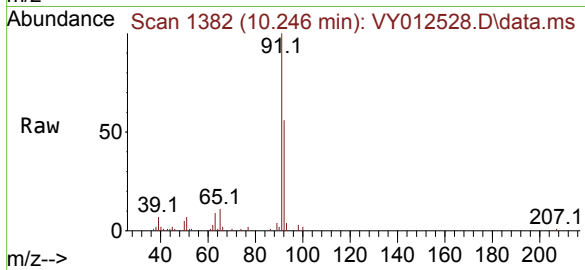
TOT-VOC-GRAB-8

Tgt Ion: 92 Resp: 9852

Ion Ratio Lower Upper

92 100

91 172.4 137.2 205.8



#62

4-Bromofluorobenzene

Concen: 35.687 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

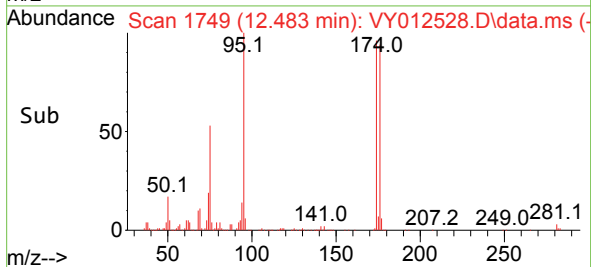
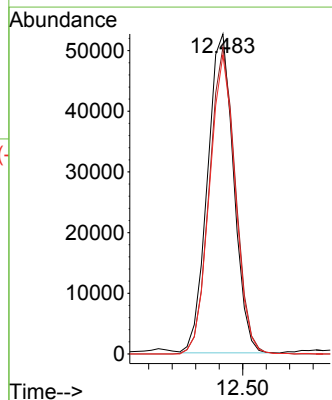
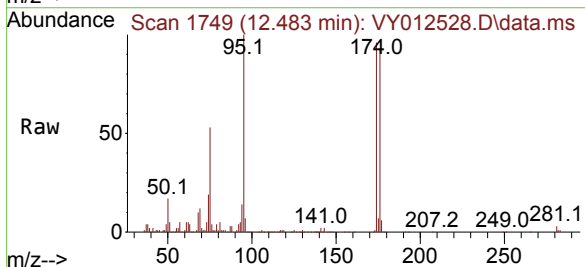
Tgt Ion: 95 Resp: 81184

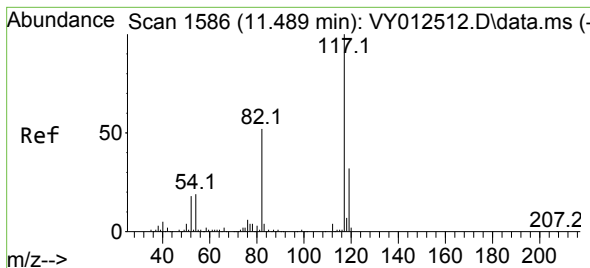
Ion Ratio Lower Upper

95 100

174 95.9 0.0 188.0

176 92.4 0.0 183.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.489 min Scan# 1586

Delta R.T. 0.000 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-8

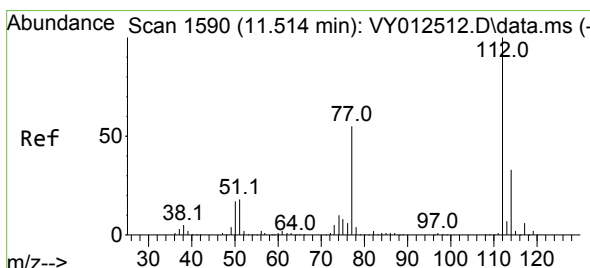
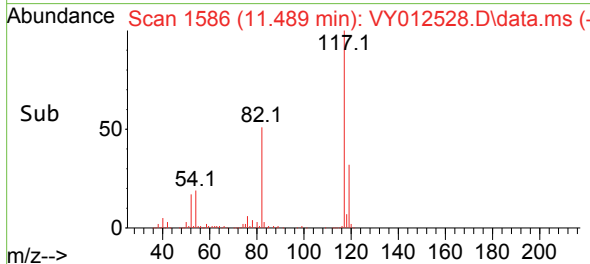
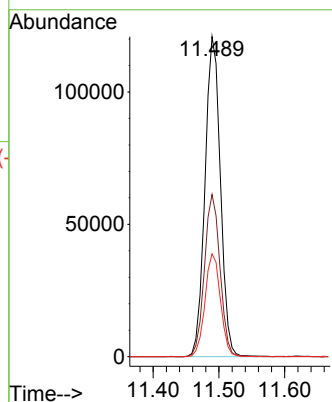
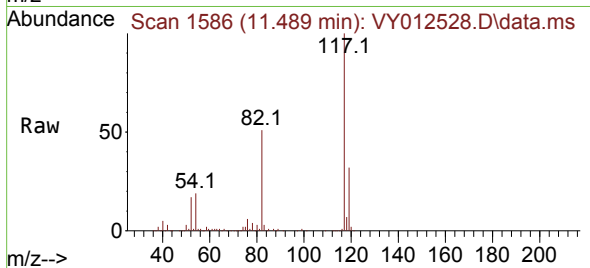
Tgt Ion:117 Resp: 197119

Ion Ratio Lower Upper

117 100

82 50.7 41.7 62.5

119 32.2 25.8 38.8



#65

Chlorobenzene

Concen: 2.213 ug/l

RT: 11.514 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY012528.D

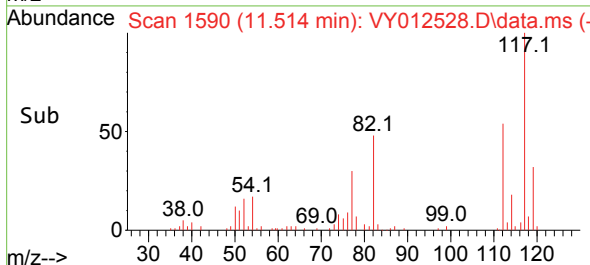
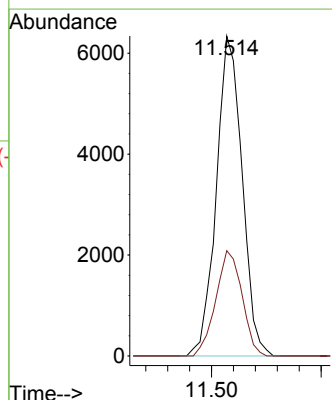
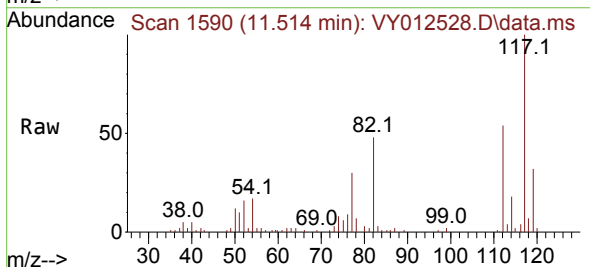
Acq: 07 Feb 2023 18:57

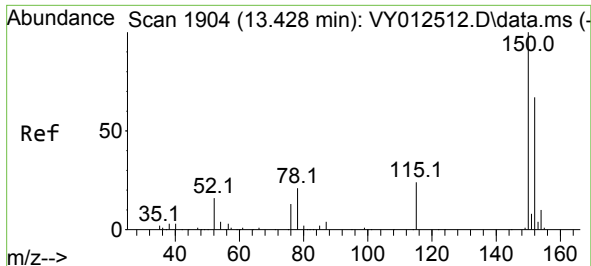
Tgt Ion:112 Resp: 10345

Ion Ratio Lower Upper

112 100

114 32.9 26.0 39.0

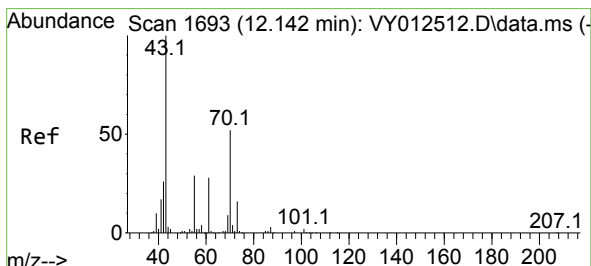
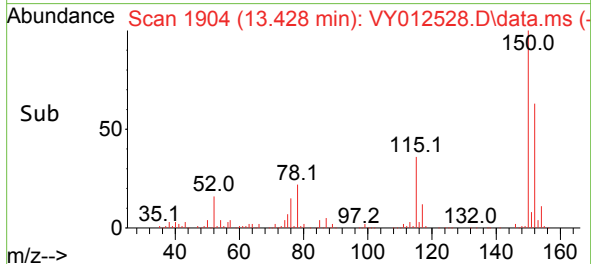
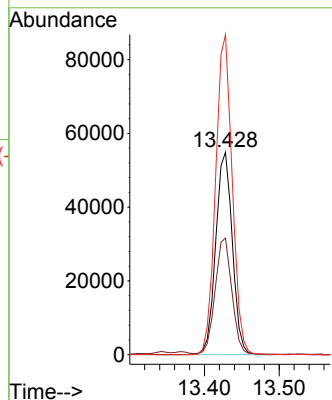
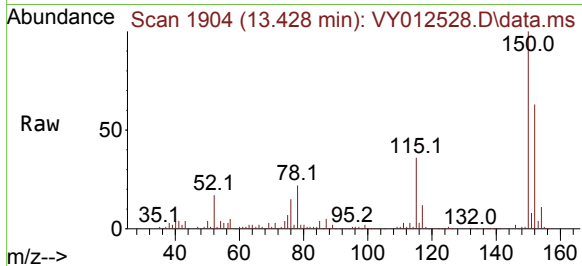




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.428 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VY012528.D
 Acq: 07 Feb 2023 18:57

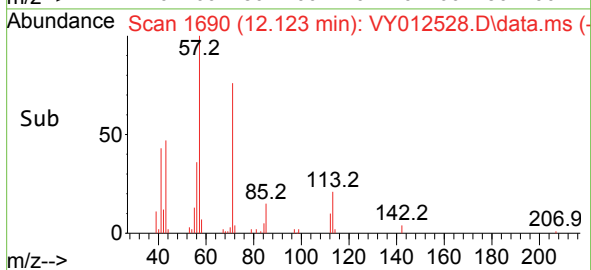
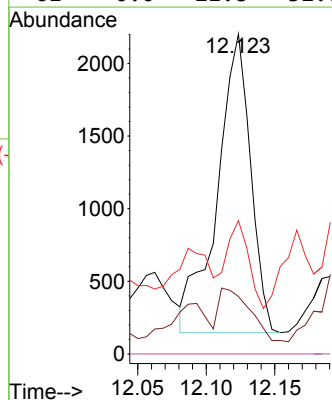
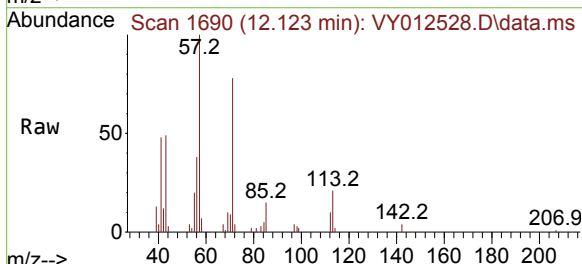
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-GRAB-8

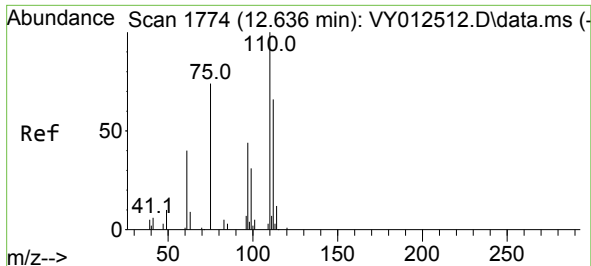
Tgt Ion:152 Resp: 85041
 Ion Ratio Lower Upper
 152 100
 115 58.2 28.1 84.3
 150 157.3 0.0 351.0



#74
 N-ethyl acetate
 Concen: 2.791 ug/l
 RT: 12.123 min Scan# 1690
 Delta R.T. -0.018 min
 Lab File: VY012528.D
 Acq: 07 Feb 2023 18:57

Tgt Ion: 43 Resp: 3476
 Ion Ratio Lower Upper
 43 100
 70 16.5 41.0 61.6#
 55 19.9 22.9 34.3#
 61 0.0 21.8 32.6#

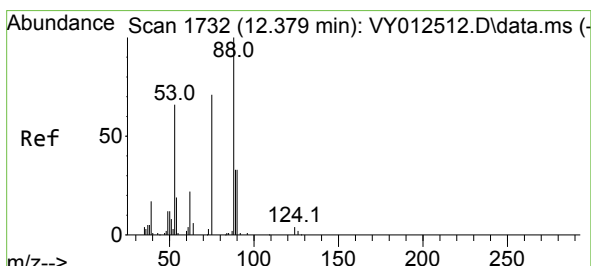
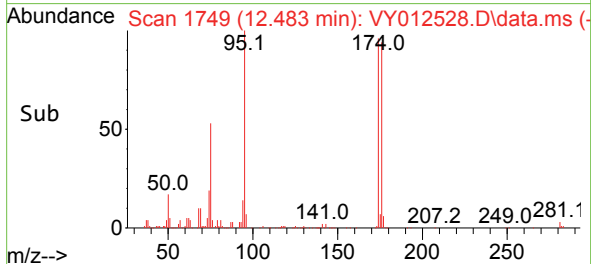
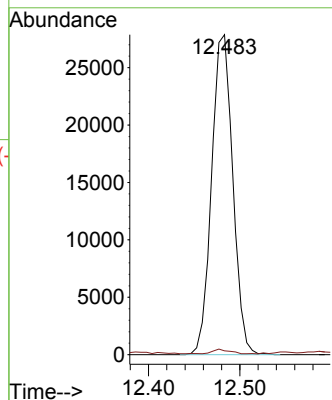
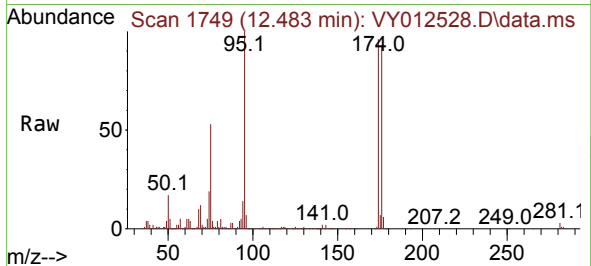




#76
1,2,3-Trichloropropane
Concen: 47.225 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.152 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

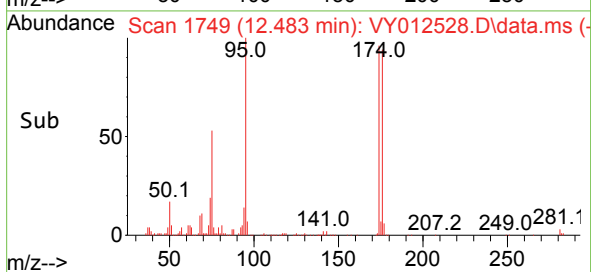
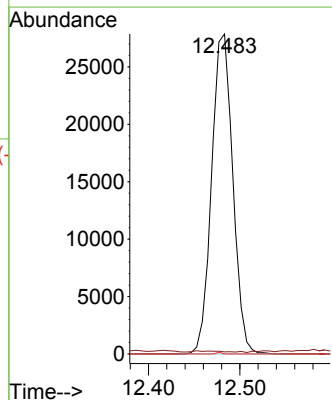
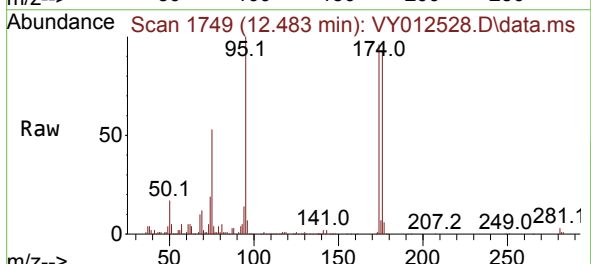
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-8

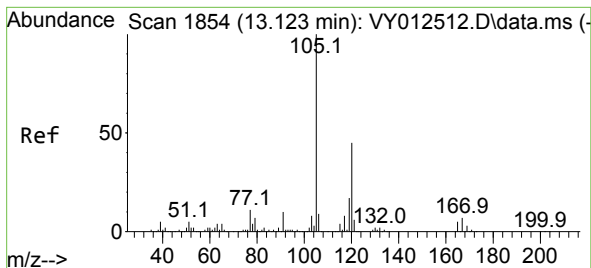
Tgt Ion: 75 Resp: 44869
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 106.495 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Tgt Ion: 75 Resp: 44869
Ion Ratio Lower Upper
75 100
53 0.0 73.1 109.7#
89 0.1 39.9 59.9#





#84

1,2,4-Trimethylbenzene

Concen: 2.066 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.006 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

Instrument :

MSVOA_Y

ClientSampleId :

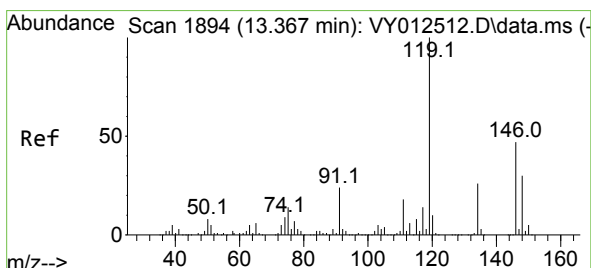
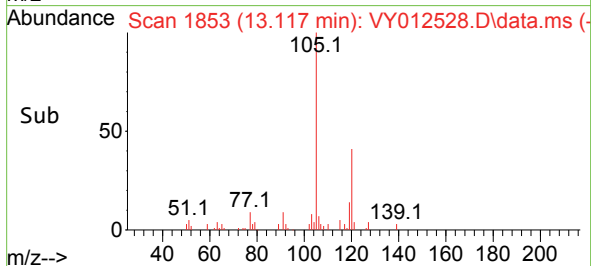
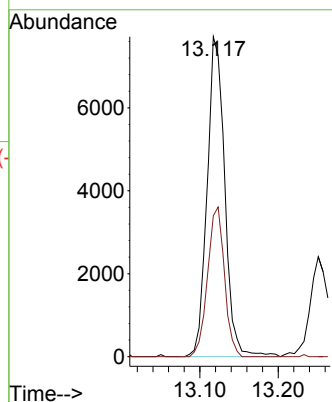
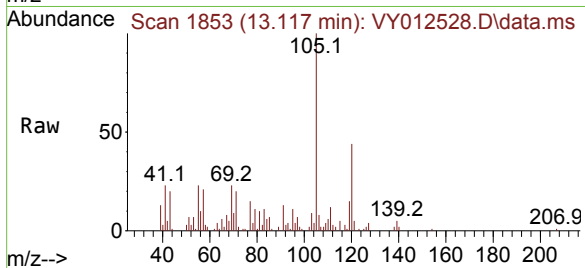
TOT-VOC-GRAB-8

Tgt Ion:105 Resp: 12040

Ion Ratio Lower Upper

105 100

120 44.7 22.8 68.3



#86

p-Isopropyltoluene

Concen: 2.497 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. 0.006 min

Lab File: VY012528.D

Acq: 07 Feb 2023 18:57

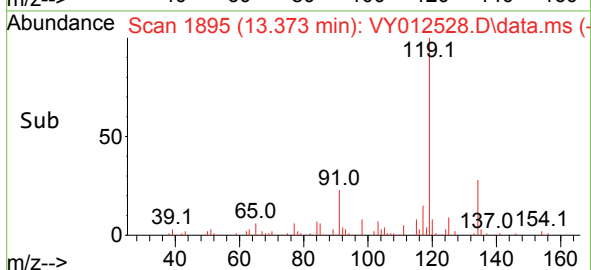
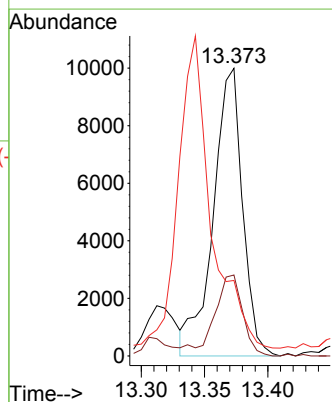
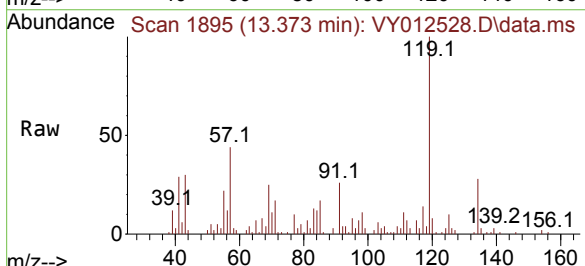
Tgt Ion:119 Resp: 16097

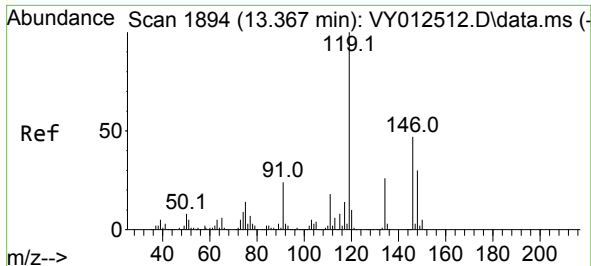
Ion Ratio Lower Upper

119 100

134 25.8 13.4 40.1

91 0.0 12.0 36.1#

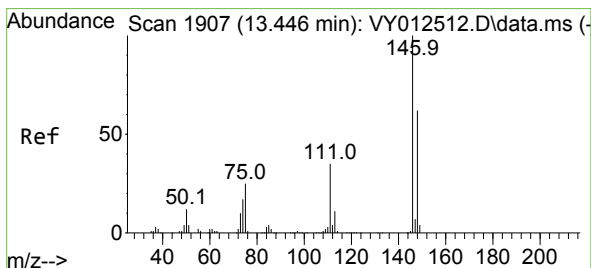
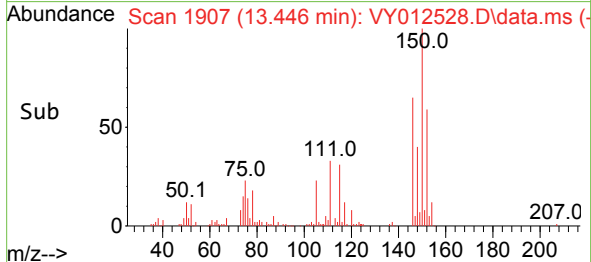
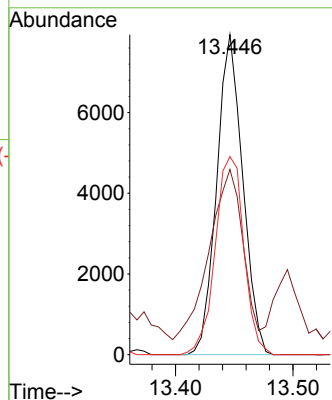
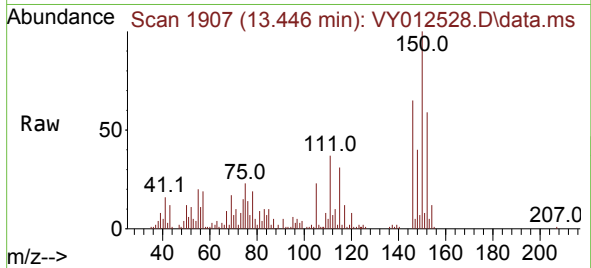




#87
1,3-Dichlorobenzene
Concen: 3.687 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. 0.079 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

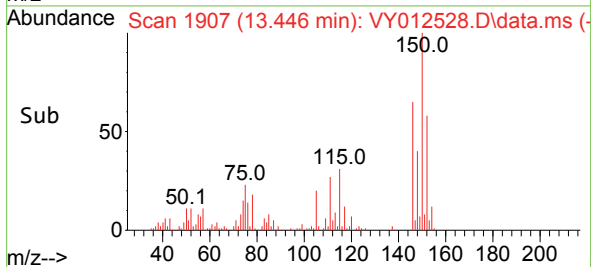
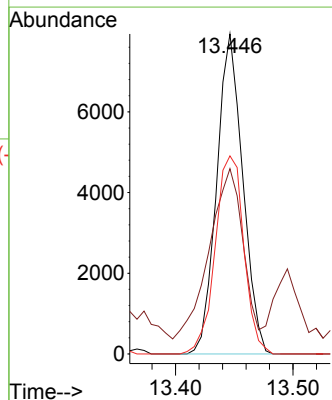
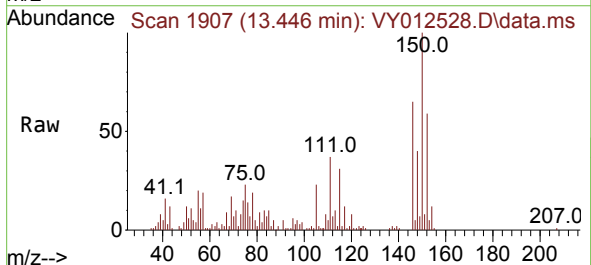
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-8

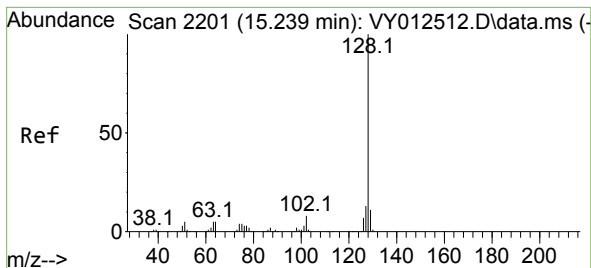
Tgt Ion:146 Resp: 12233
Ion Ratio Lower Upper
146 100
111 67.8 19.3 57.9#
148 68.0 32.0 96.2



#88
1,4-Dichlorobenzene
Concen: 3.681 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY012528.D
Acq: 07 Feb 2023 18:57

Tgt Ion:146 Resp: 12233
Ion Ratio Lower Upper
146 100
111 67.8 18.4 55.2#
148 68.0 31.6 95.0





#95

Naphthalene

Concen: 2.783 ug/l

RT: 15.233 min Scan# 21

Delta R.T. -0.006 min

Lab File: VY012528.D

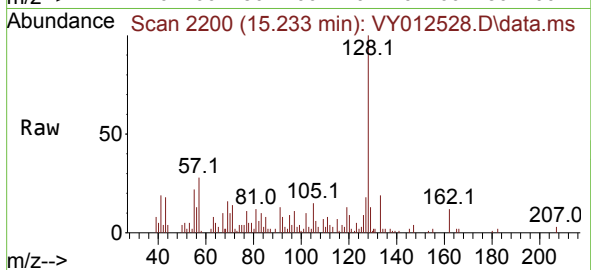
Acq: 07 Feb 2023 18:57

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-8



Tgt Ion:128 Resp: 9880

Ion Ratio Lower Upper

128 100

127 16.0 10.4 15.6#

129 17.0 8.6 12.8#

