

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY021423\
 Data File : VY012583.D
 Acq On : 14 Feb 2023 13:00
 Operator : KP/MD
 Sample : 01539-08
 Misc : 4.61g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-GRAB-56

Quant Time: Feb 15 01:25:52 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)

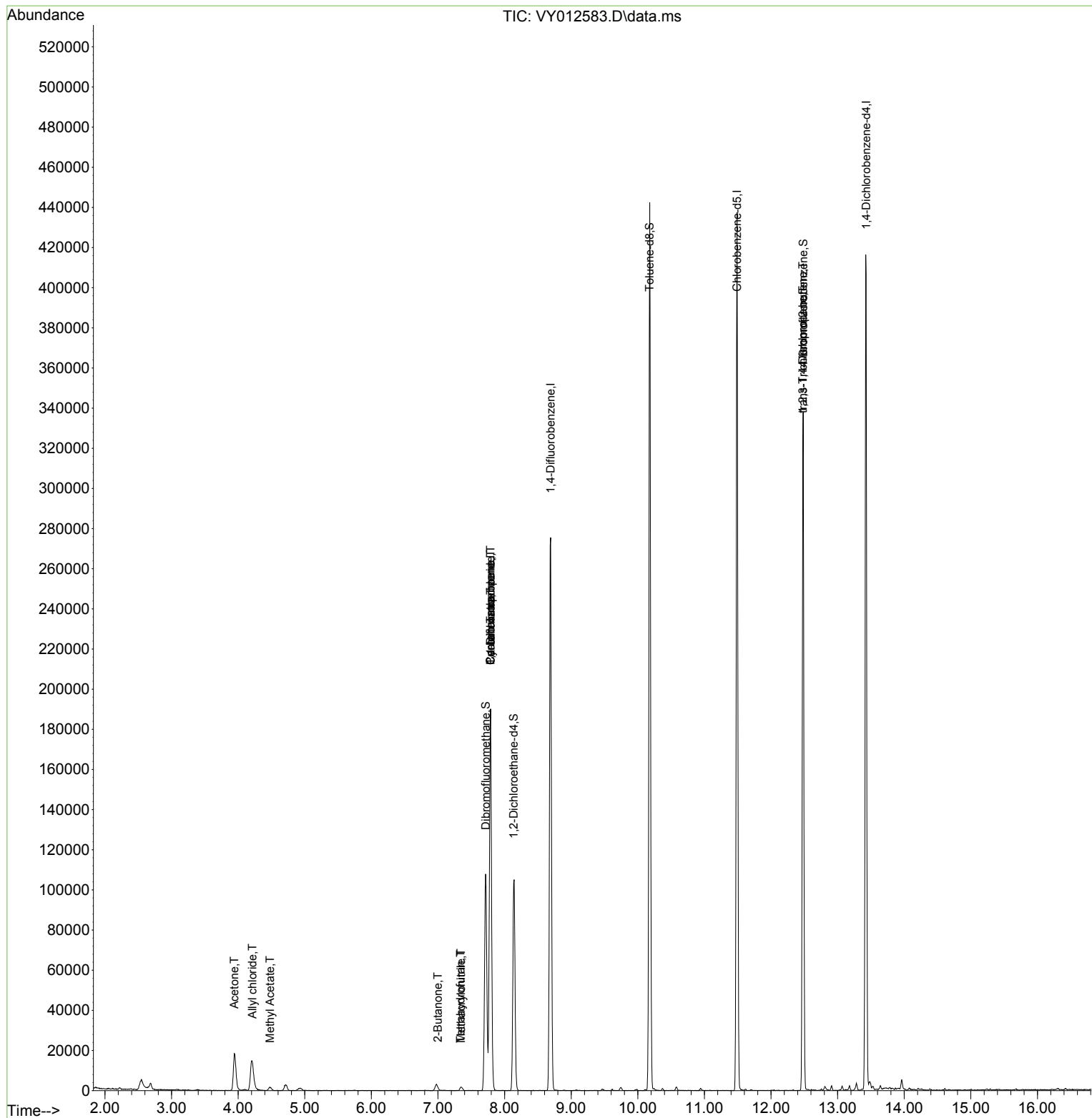
Internal Standards						
1) Pentafluorobenzene	7.789	168	149759	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	248029	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	243130	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	115116	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	92263	48.448	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.900%		
35) Dibromofluoromethane	7.716	113	72750	40.276	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	80.560%		
50) Toluene-d8	10.179	98	290787	38.677	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	77.360%		
62) 4-Bromofluorobenzene	12.483	95	99170	37.816	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	75.640%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.900	85	19	Below Cal	#	41
5) Bromomethane	2.662	94	395	Below Cal	#	78
11) Tert butyl alcohol	4.924	59	1488	Below Cal	#	75
14) Allyl chloride	4.216	41	2258	1.242	ug/l #	67
16) Acetone	3.942	43	32460	70.819	ug/l	98
18) Methyl Acetate	4.479	43	2881	2.615	ug/l	91
20) Methylene Chloride	4.710	84	2516	Below Cal	#	78
25) 2-Butanone	6.996	43	712	1.400	ug/l	97
29) Tetrahydrofuran	7.338	42	1217	4.427	ug/l	92
31) Cyclohexane	7.789	56	2579	1.171	ug/l #	31
36) 1,1-Dichloropropene	7.789	75	9673	3.957	ug/l #	50
38) Carbon Tetrachloride	7.789	117	14571	4.440	ug/l #	18
41) Methacrylonitrile	7.344	41	768	1.271	ug/l #	100
76) 1,2,3-Trichloropropane	12.477	75	52965	41.182	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	52965	92.868	ug/l #	12

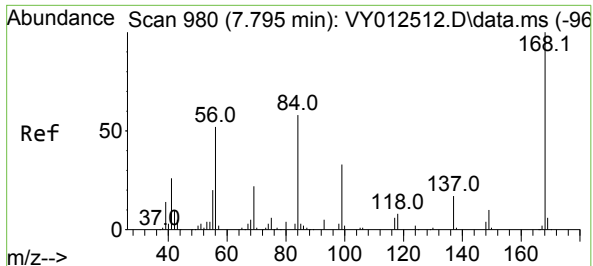
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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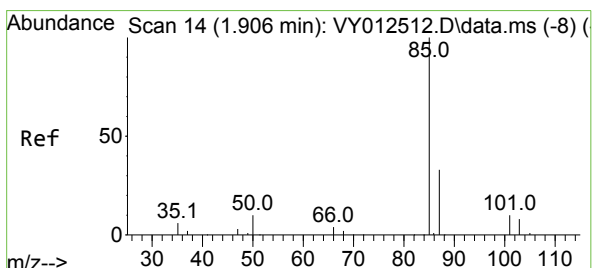
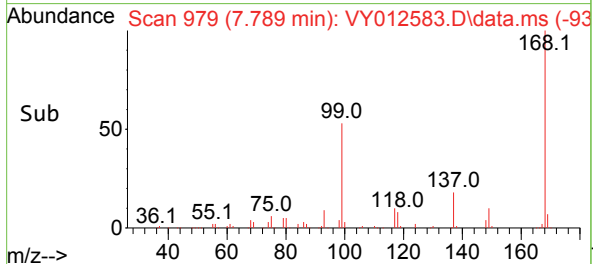
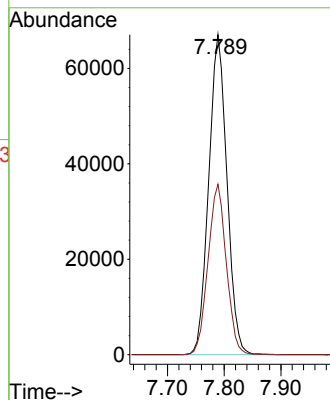
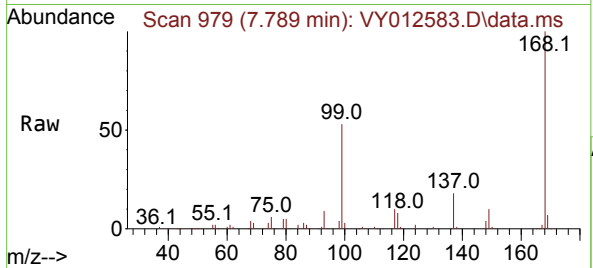




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

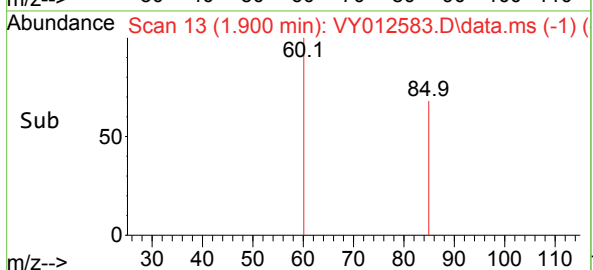
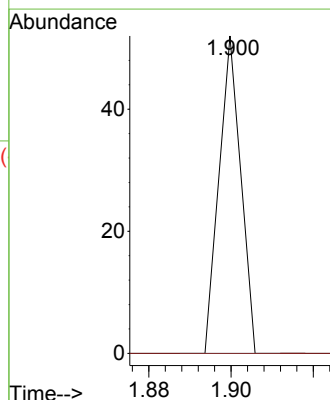
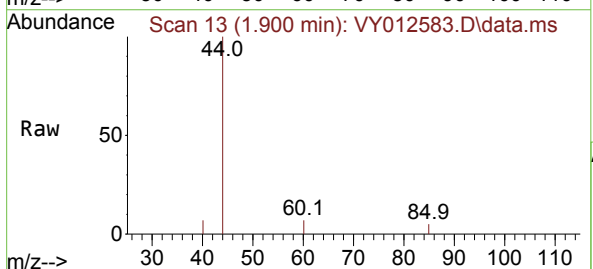
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-56

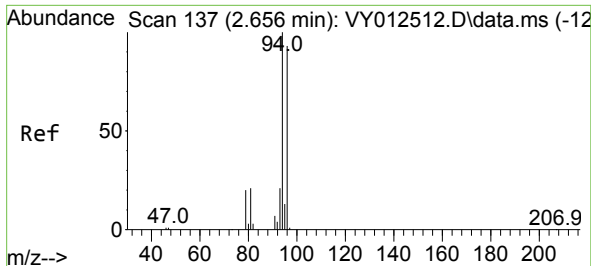
Tgt Ion:168 Resp: 149759
Ion Ratio Lower Upper
168 100
99 53.2 40.8 61.2



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.900 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

Tgt Ion: 85 Resp: 19
Ion Ratio Lower Upper
85 100
87 0.0 16.6 49.8#

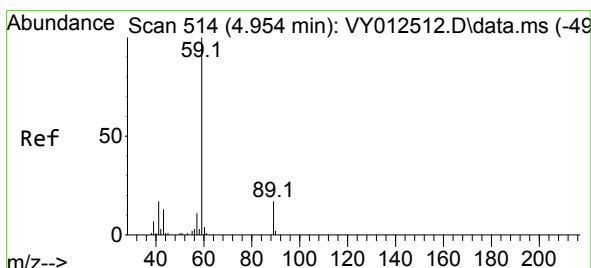
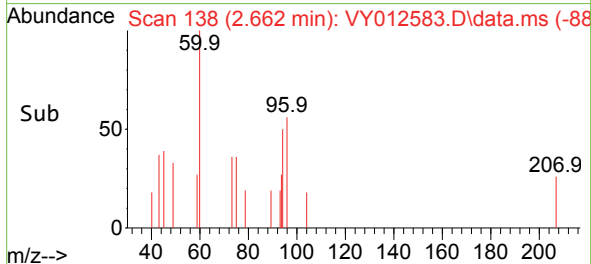
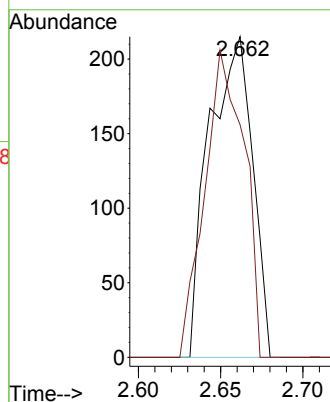
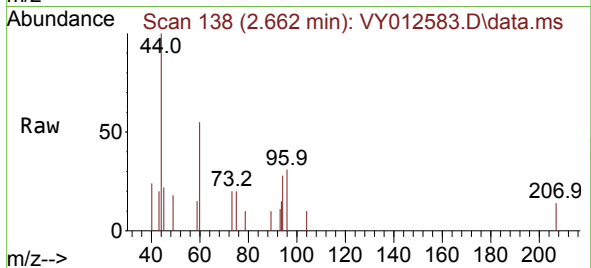




#5
Bromomethane
Concen: Below Cal
RT: 2.662 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

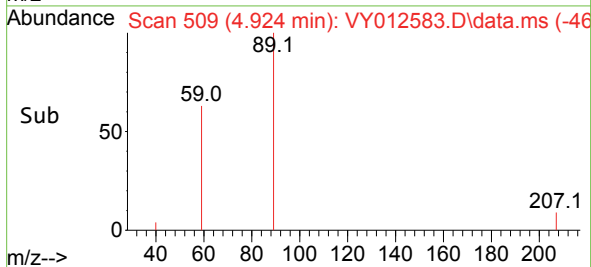
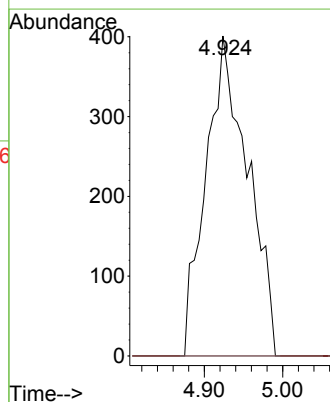
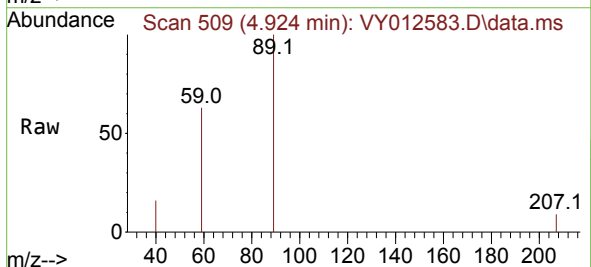
Instrument :
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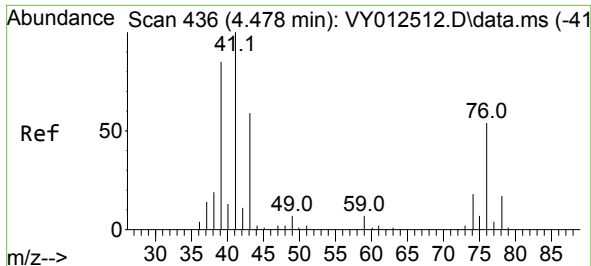
Tgt Ion: 94 Resp: 395
Ion Ratio Lower Upper
94 100
96 72.6 74.7 112.1#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.924 min Scan# 509
Delta R.T. -0.030 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

Tgt Ion: 59 Resp: 1488
Ion Ratio Lower Upper
59 100
57 0.0 7.2 10.8#

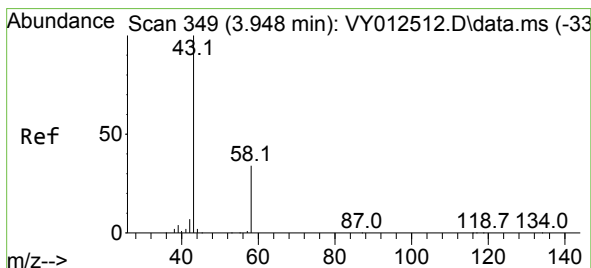
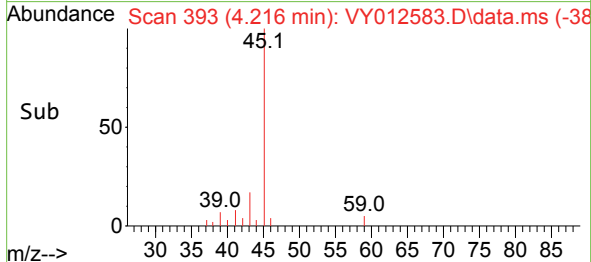
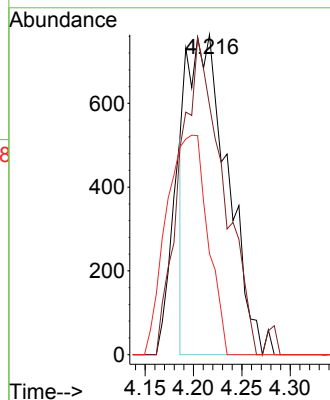
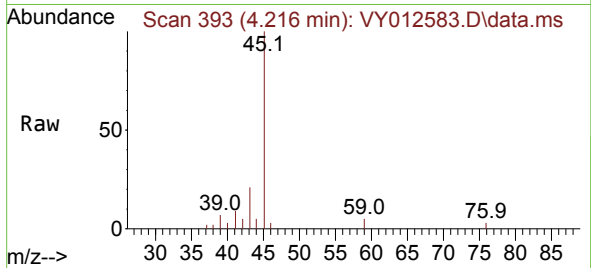




#14
 Allyl chloride
 Concen: 1.242 ug/l
 RT: 4.216 min Scan# 391
 Delta R.T. -0.262 min
 Lab File: VY012583.D
 Acq: 14 Feb 2023 13:00

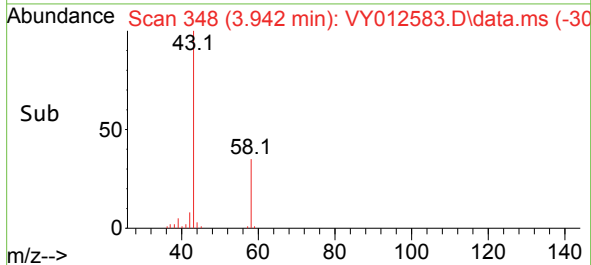
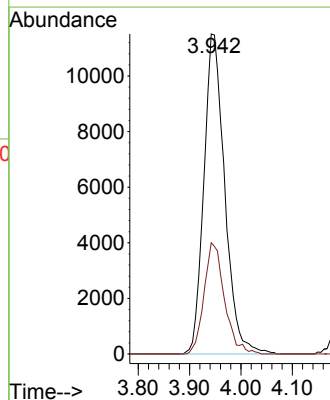
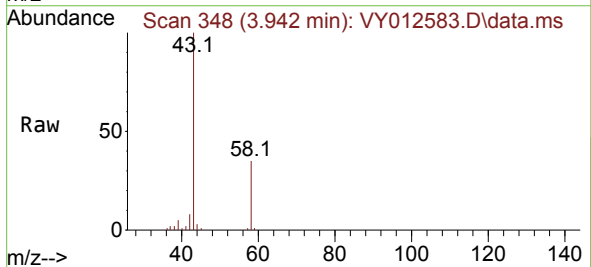
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-GRAB-56

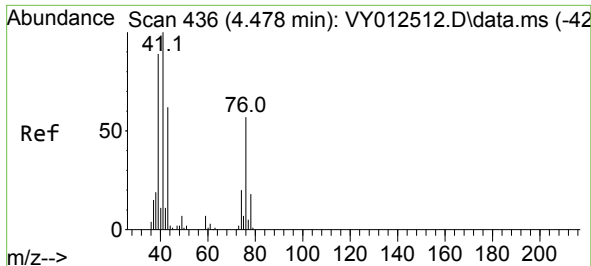
Tgt Ion: 41 Resp: 2258
 Ion Ratio Lower Upper
 41 100
 39 85.9 62.6 94.0
 76 0.0 39.6 59.4#



#16
 Acetone
 Concen: 70.819 ug/l
 RT: 3.942 min Scan# 348
 Delta R.T. -0.006 min
 Lab File: VY012583.D
 Acq: 14 Feb 2023 13:00

Tgt Ion: 43 Resp: 32460
 Ion Ratio Lower Upper
 43 100
 58 34.8 27.1 40.7





#18

Methyl Acetate

Concen: 2.615 ug/l

RT: 4.479 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY012583.D

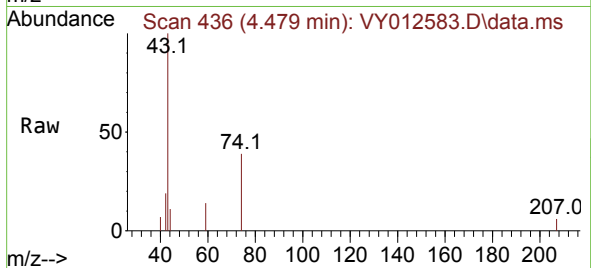
Acq: 14 Feb 2023 13:00

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-56

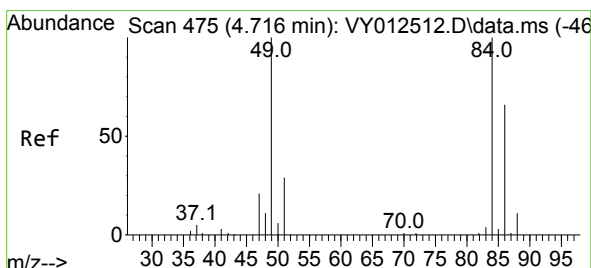
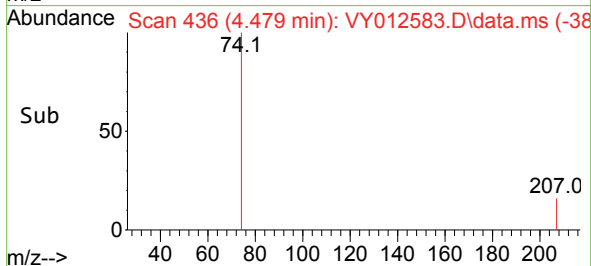
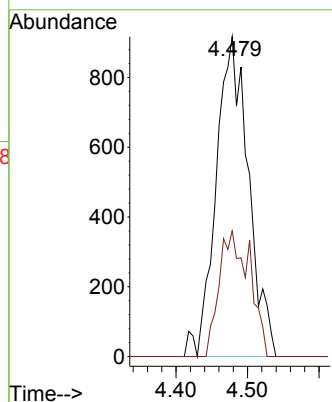


Tgt Ion: 43 Resp: 2881

Ion Ratio Lower Upper

43 100

74 37.0 25.6 38.4



#20

Methylene Chloride

Concen: Below Cal

RT: 4.710 min Scan# 474

Delta R.T. -0.006 min

Lab File: VY012583.D

Acq: 14 Feb 2023 13:00

Tgt Ion: 84 Resp: 2516

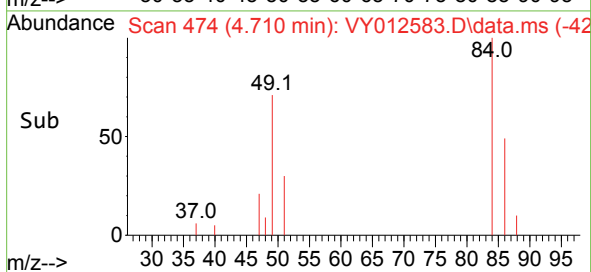
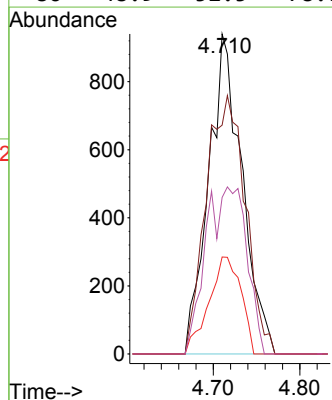
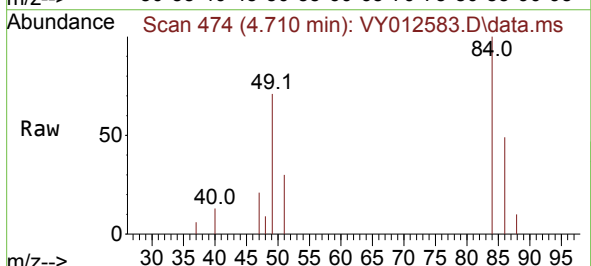
Ion Ratio Lower Upper

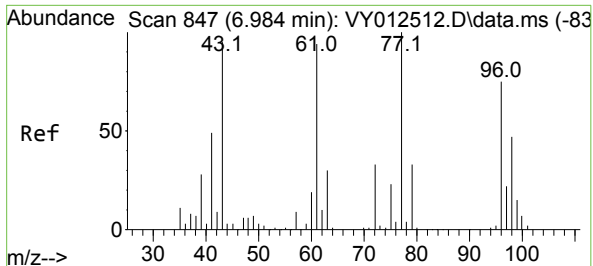
84 100

49 71.5 79.8 119.6#

51 30.3 23.4 35.2

86 48.9 52.5 78.7#





#25

2-Butanone

Concen: 1.400 ug/l

RT: 6.996 min Scan# 84

Delta R.T. 0.012 min

Lab File: VY012583.D

Acq: 14 Feb 2023 13:00

Instrument :

MSVOA_Y

ClientSampleId :

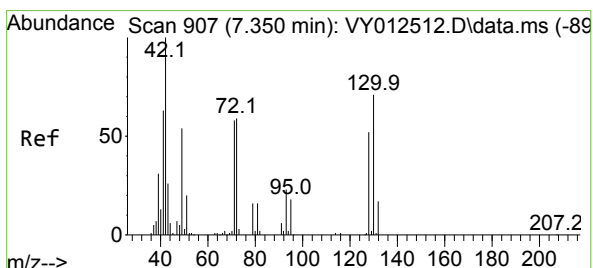
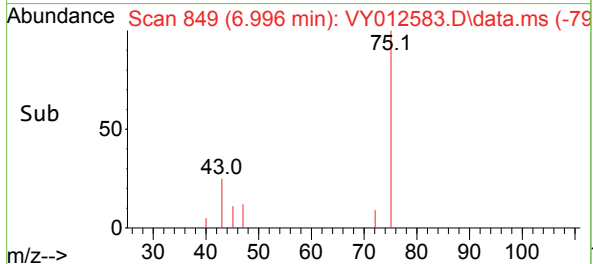
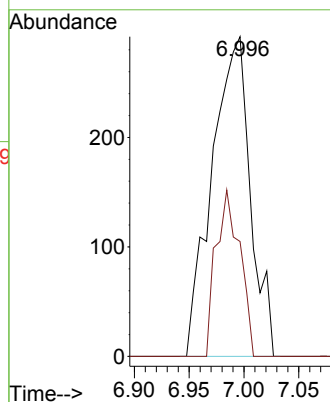
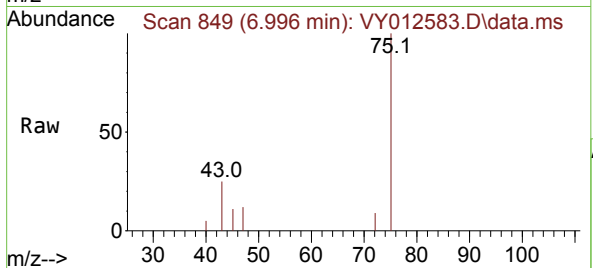
TOT-VOC-GRAB-56

Tgt Ion: 43 Resp: 712

Ion Ratio Lower Upper

43 100

72 36.0 27.4 41.2



#29

Tetrahydrofuran

Concen: 4.427 ug/l

RT: 7.338 min Scan# 905

Delta R.T. -0.012 min

Lab File: VY012583.D

Acq: 14 Feb 2023 13:00

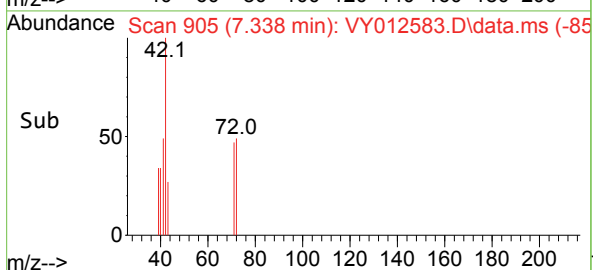
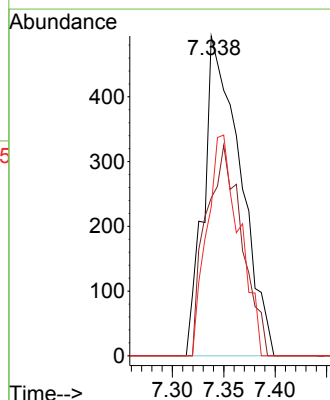
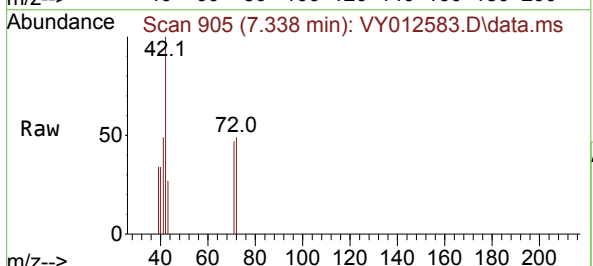
Tgt Ion: 42 Resp: 1217

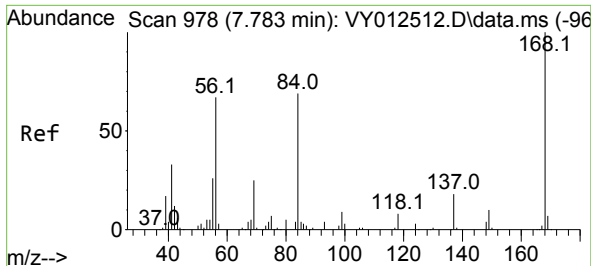
Ion Ratio Lower Upper

42 100

72 65.1 47.0 70.6

71 61.5 44.6 66.8

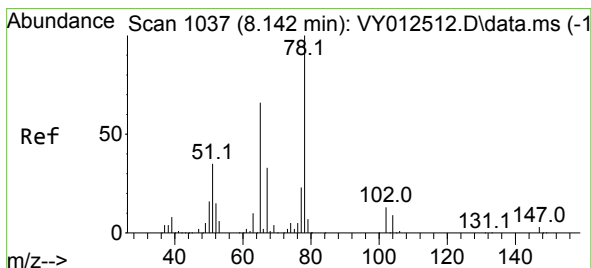
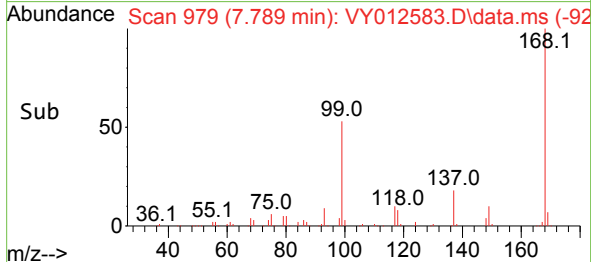
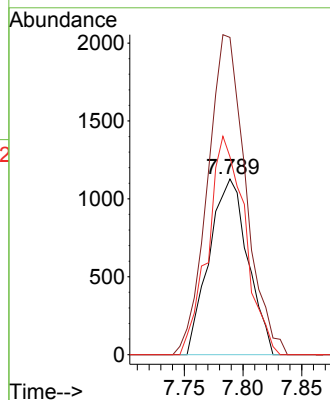
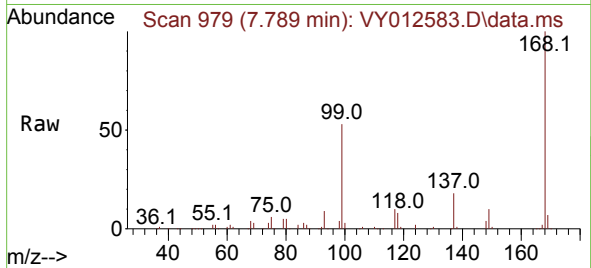




#31
Cyclohexane
Concen: 1.171 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

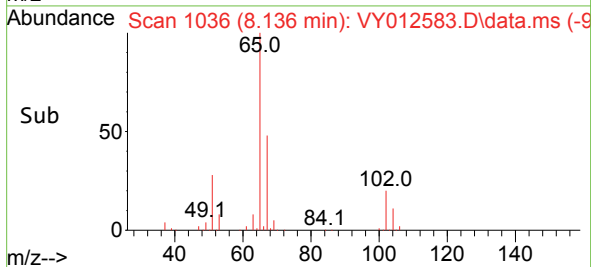
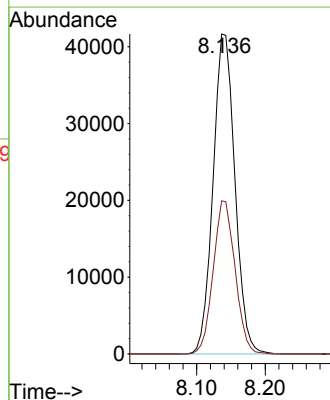
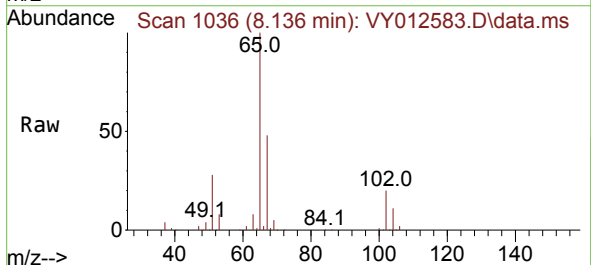
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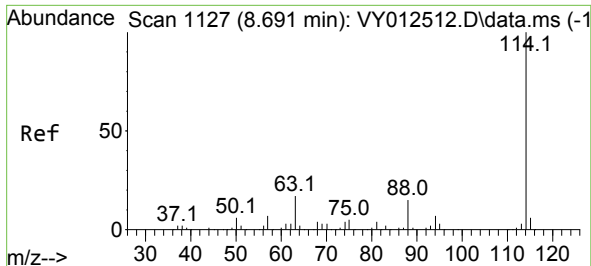
Tgt Ion: 56 Resp: 2579
Ion Ratio Lower Upper
56 100
69 175.9 29.5 44.3#
84 112.6 81.9 122.9



#33
1,2-Dichloroethane-d4
Concen: 48.448 ug/l
RT: 8.136 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

Tgt Ion: 65 Resp: 92263
Ion Ratio Lower Upper
65 100
67 47.9 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: VY012583.D

Acq: 14 Feb 2023 13:00

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-56

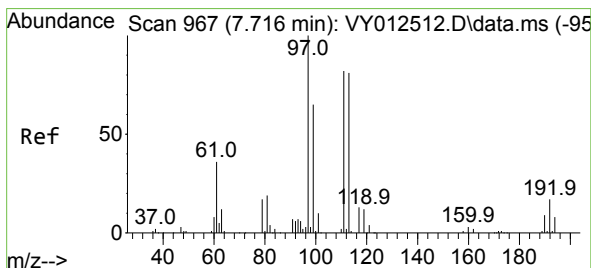
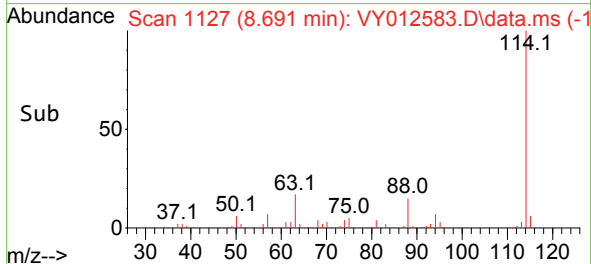
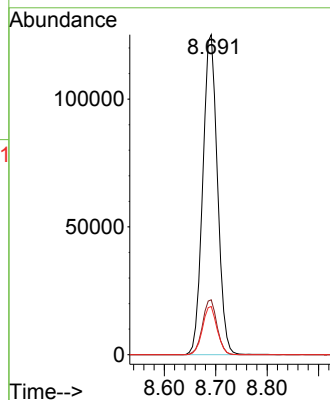
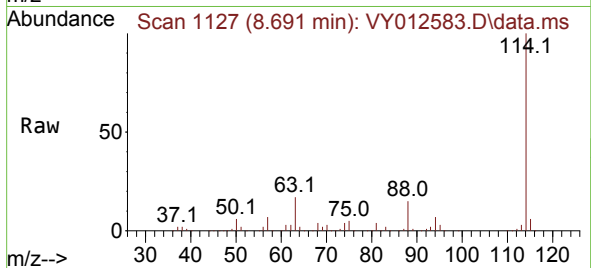
Tgt Ion:114 Resp: 248029

Ion Ratio Lower Upper

114 100

63 17.1 0.0 33.6

88 15.1 0.0 29.8



#35

Dibromofluoromethane

Concen: 40.276 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY012583.D

Acq: 14 Feb 2023 13:00

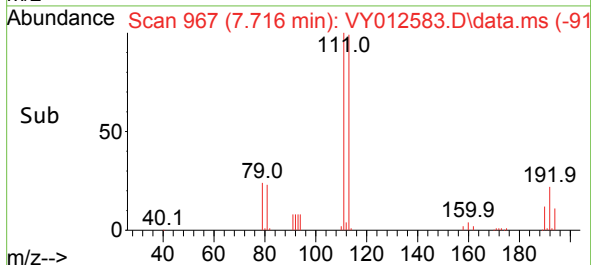
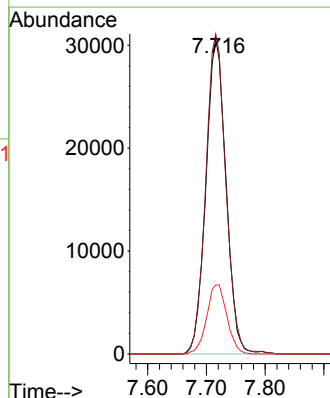
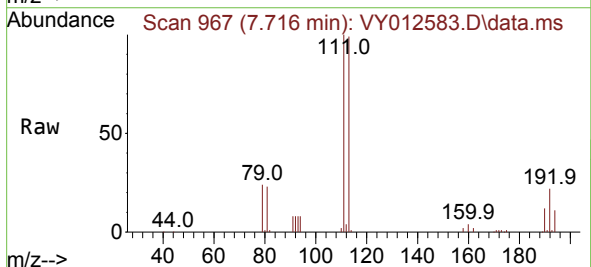
Tgt Ion:113 Resp: 72750

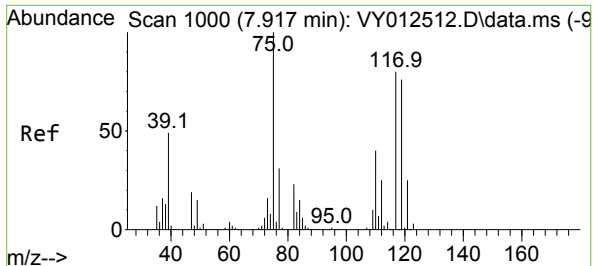
Ion Ratio Lower Upper

113 100

111 101.8 81.9 122.9

192 22.1 17.5 26.3





#36

1,1-Dichloropropene

Concen: 3.957 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY012583.D

Acq: 14 Feb 2023 13:00

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-56

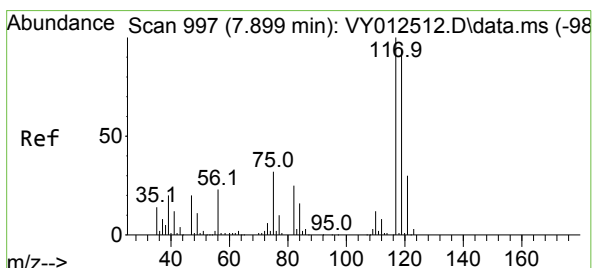
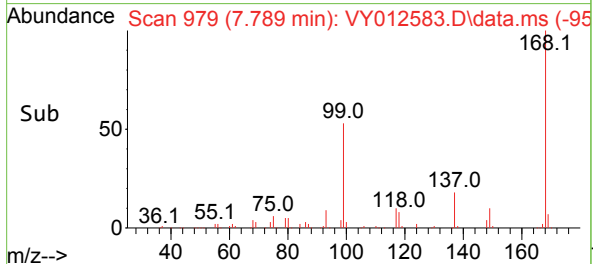
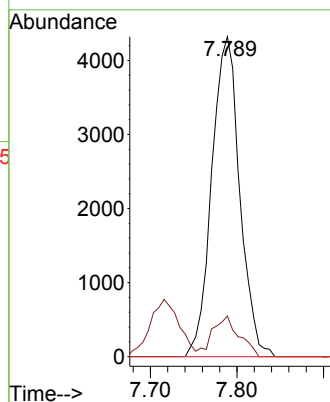
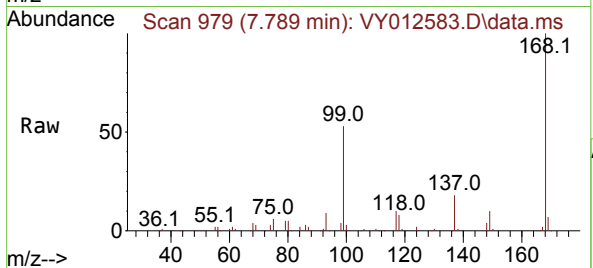
Tgt Ion: 75 Resp: 9673

Ion Ratio Lower Upper

75 100

110 12.1 19.5 58.5#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 4.440 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY012583.D

Acq: 14 Feb 2023 13:00

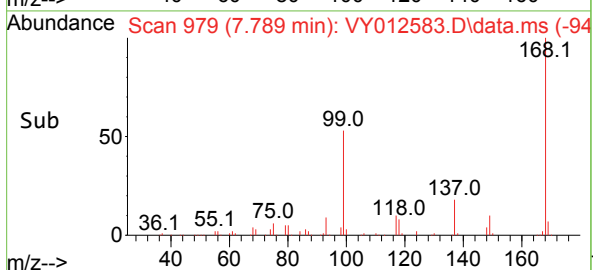
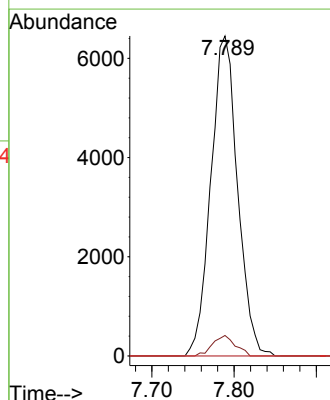
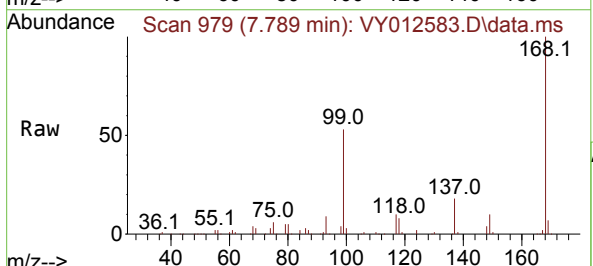
Tgt Ion: 117 Resp: 14571

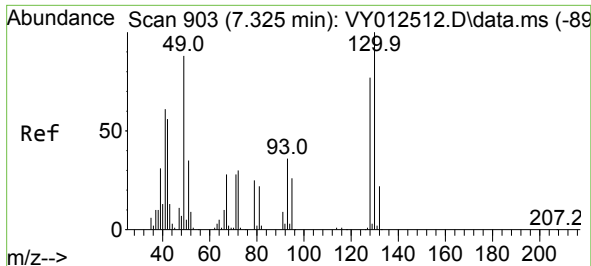
Ion Ratio Lower Upper

117 100

119 6.4 75.1 112.7#

121 0.0 24.3 36.5#

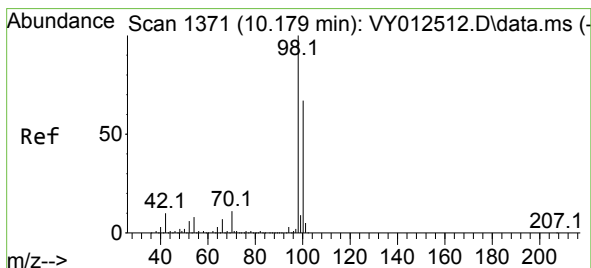
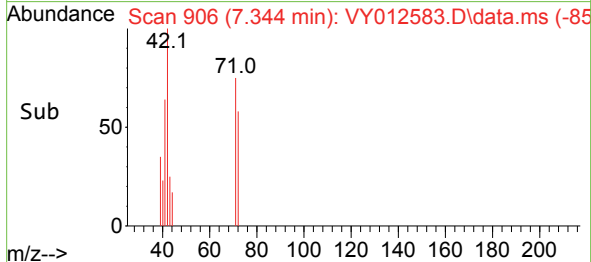
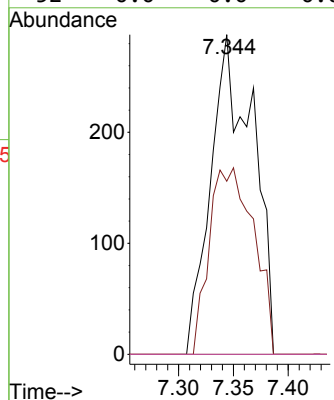
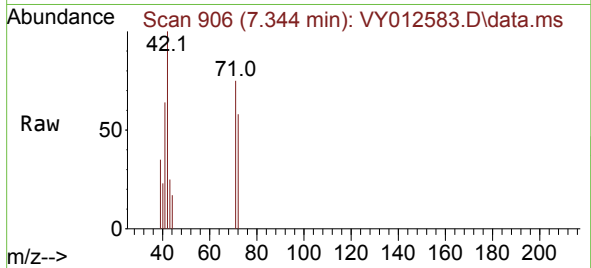




#41
Methacrylonitrile
Concen: 1.271 ug/l
RT: 7.344 min Scan# 906
Delta R.T. 0.018 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

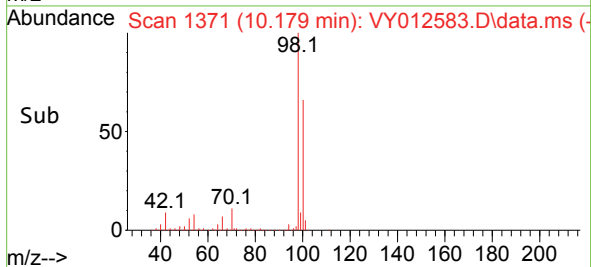
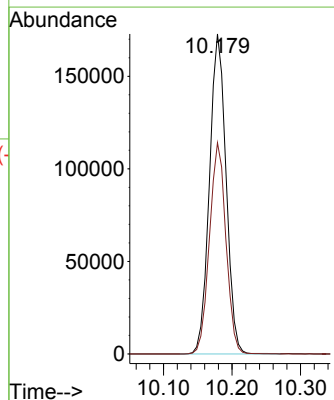
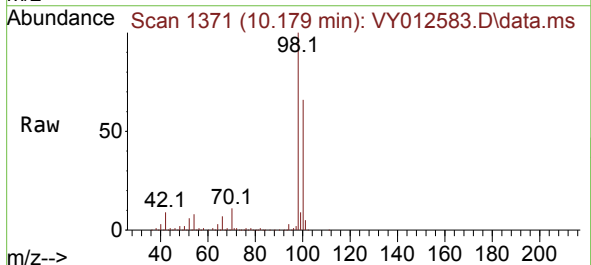
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-56

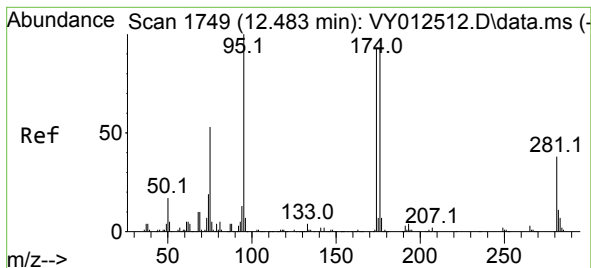
Tgt Ion: 41	Resp: 768
Ion Ratio	Lower Upper
41 100	
39 61.8	0.0 0.0#
67 0.0	0.0 0.0
52 0.0	0.0 0.0



#50
Toluene-d8
Concen: 38.677 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

Tgt Ion: 98	Resp: 290787
Ion Ratio	Lower Upper
98 100	
100 65.5	52.2 78.2

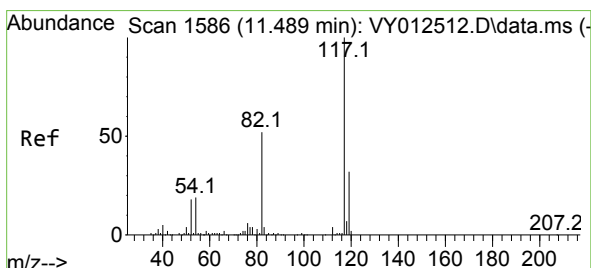
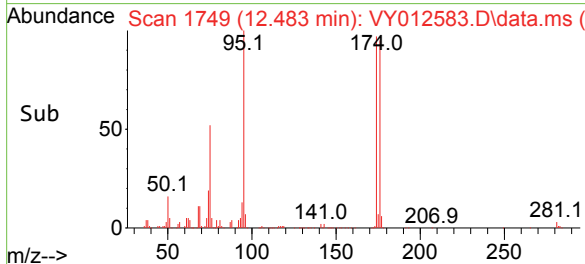
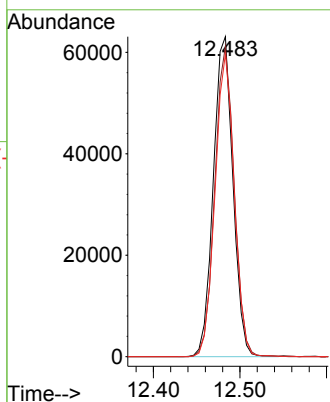
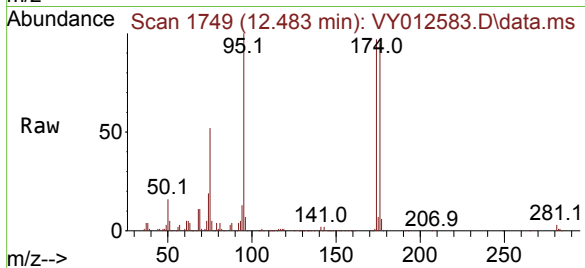




#62
4-Bromofluorobenzene
Concen: 37.816 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

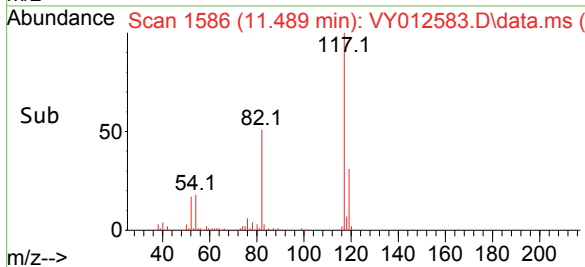
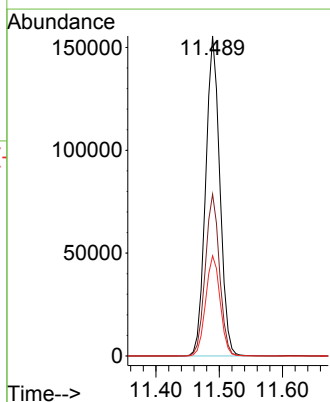
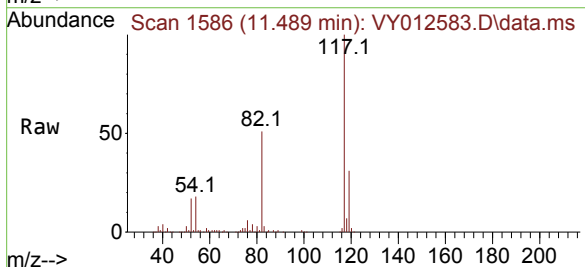
Instrument :
MSVOA_Y
ClientSampleId :
TOT-VOC-GRAB-56

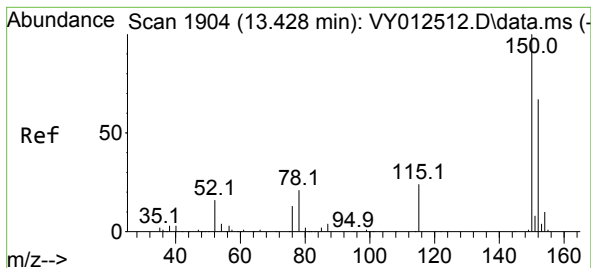
Tgt Ion:	95	Resp:	99170
Ion	Ratio	Lower	Upper
95	100		
174	95.6	0.0	188.0
176	92.7	0.0	183.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY012583.D
Acq: 14 Feb 2023 13:00

Tgt Ion:	117	Resp:	243130
Ion	Ratio	Lower	Upper
117	100		
82	50.5	41.7	62.5
119	31.3	25.8	38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VY012583.D

Acq: 14 Feb 2023 13:00

Instrument :

MSVOA_Y

ClientSampleId :

TOT-VOC-GRAB-56

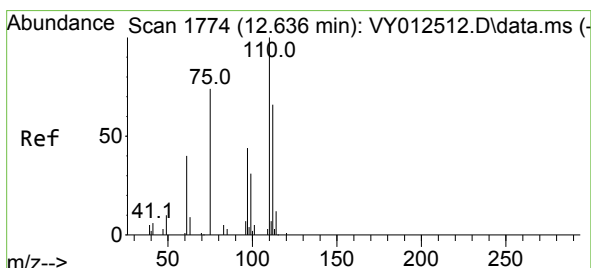
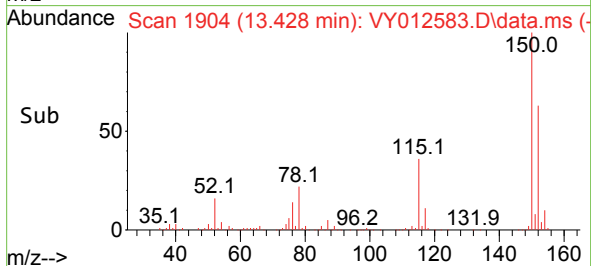
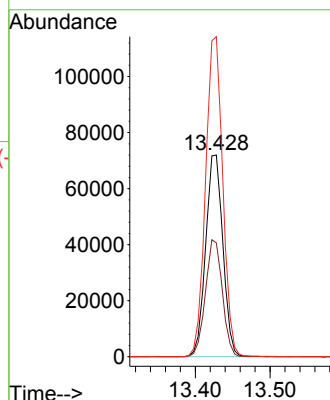
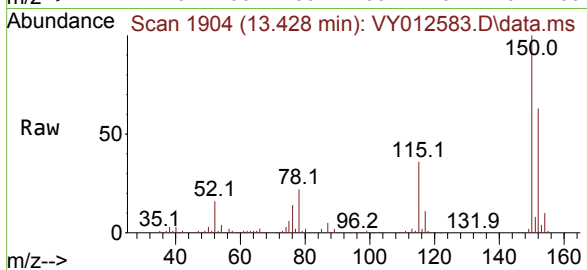
Tgt Ion:152 Resp: 115116

Ion Ratio Lower Upper

152 100

115 57.0 28.1 84.3

150 158.4 0.0 351.0



#76

1,2,3-Trichloropropane

Concen: 41.182 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.158 min

Lab File: VY012583.D

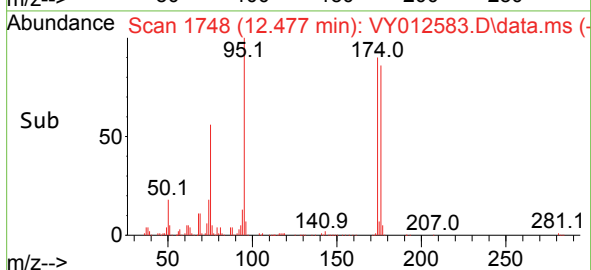
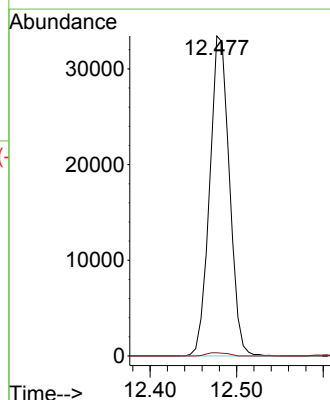
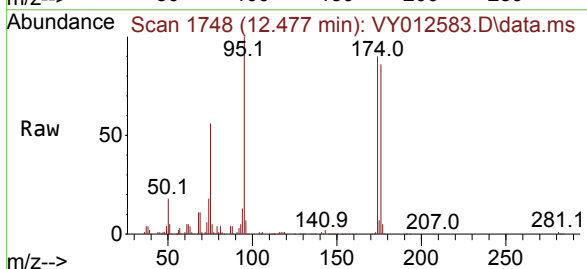
Acq: 14 Feb 2023 13:00

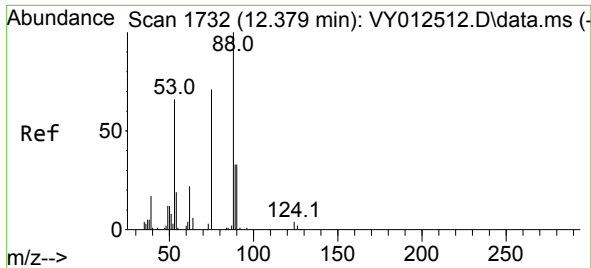
Tgt Ion: 75 Resp: 52965

Ion Ratio Lower Upper

75 100

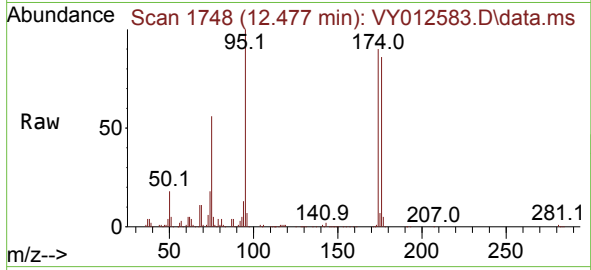
77 1.1 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.868 ug/l
 RT: 12.477 min Scan# 11
 Delta R.T. 0.098 min
 Lab File: VY012583.D
 Acq: 14 Feb 2023 13:00

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOT-VOC-GRAB-56



Tgt Ion:	75	Resp:	52965
Ion	Ratio	Lower	Upper
75	100		
53	0.0	73.1	109.7#
89	0.1	39.9	59.9#

