

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062123\
 Data File : VY014370.D
 Acq On : 22 Jun 2023 08:28
 Operator : KP/MD
 Sample : 03362-13
 Misc : 7.73g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-12-13-SB-13-GRAB-5

Quant Time: Jun 22 08:56:19 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)

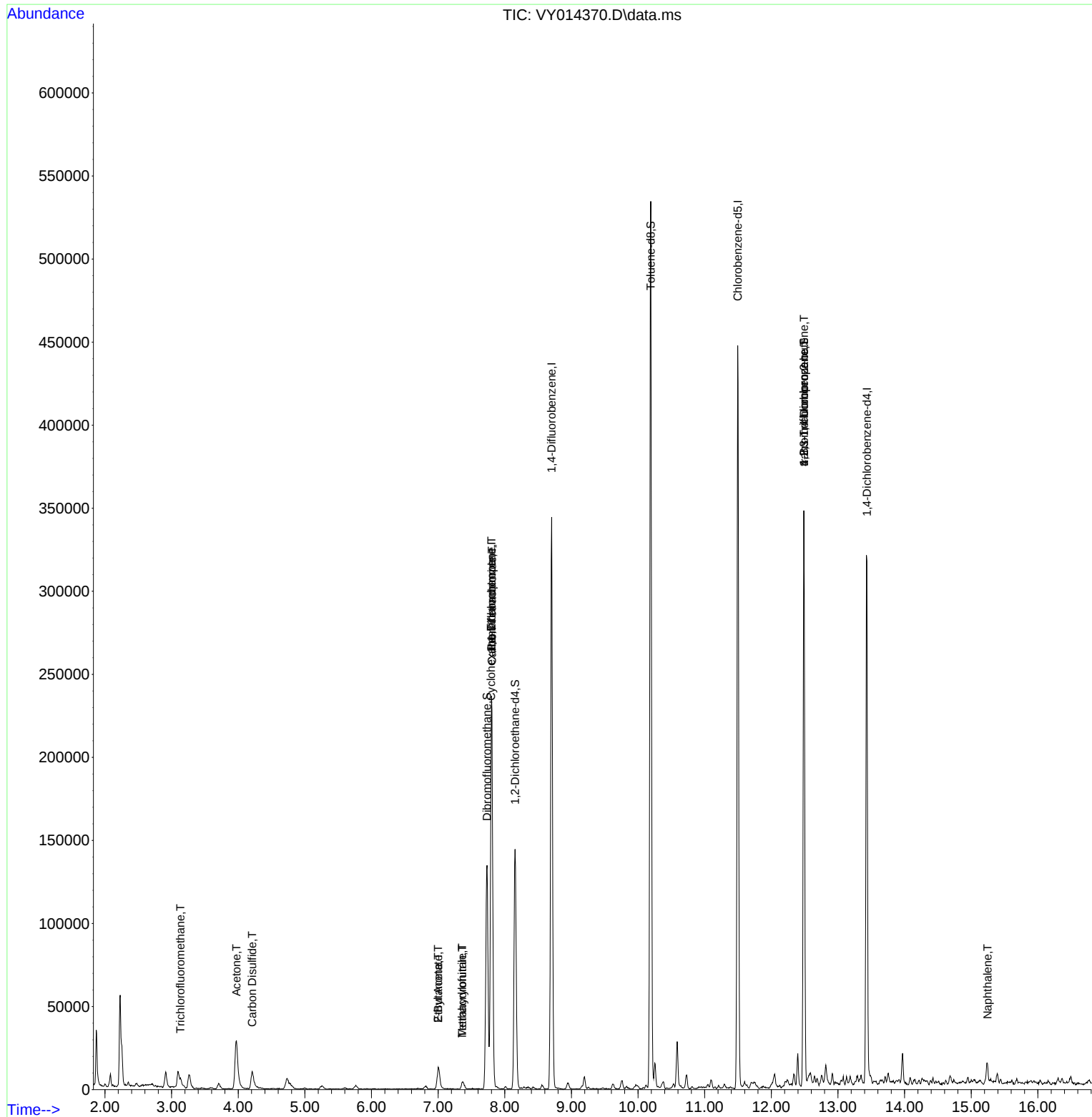
Internal Standards						
1) Pentafluorobenzene	7.801	168	182737	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.703	114	282364	50.000	ug/l	0.01
63) Chlorobenzene-d5	11.496	117	243986	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	84281	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	120744	47.450	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.900%
35) Dibromofluoromethane	7.734	113	92227	46.057	ug/l	0.02
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.120%
50) Toluene-d8	10.191	98	337873	45.132	ug/l	0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	=	90.260%
62) 4-Bromofluorobenzene	12.489	95	90361	33.978	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	67.960%
Target Compounds						Qvalue
7) Trichlorofluoromethane	3.131	101	5319	1.304	ug/l	92
11) Tert butyl alcohol	4.978	59	400	Below Cal	#	89
13) Acrolein	3.716	56	91	Below Cal	#	1
16) Acetone	3.973	43	58900	76.789	ug/l	99
17) Carbon Disulfide	4.210	76	19593	2.898	ug/l	# 93
20) Methylene Chloride	4.735	84	3974	Below Cal	#	82
25) 2-Butanone	7.002	43	13424	14.218	ug/l	95
29) Tetrahydrofuran	7.362	42	1399	2.337	ug/l	# 1
31) Cyclohexane	7.795	56	5125	1.503	ug/l	# 53
36) 1,1-Dichloropropene	7.801	75	13862	4.440	ug/l	# 49
37) Ethyl Acetate	7.002	43	13424	6.232	ug/l	# 83
38) Carbon Tetrachloride	7.807	117	17613	4.889	ug/l	# 17
41) Methacrylonitrile	7.362	41	2095	1.906	ug/l	# 46
76) 1,2,3-Trichloropropane	12.489	75	49688	44.936	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.489	75	49688	97.135	ug/l	# 11
95) Naphthalene	15.245	128	11520	3.092	ug/l	97

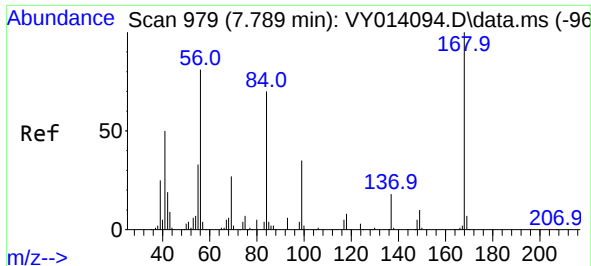
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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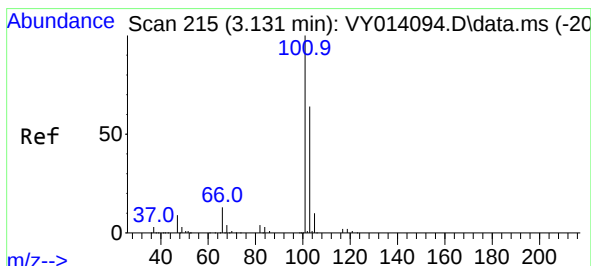
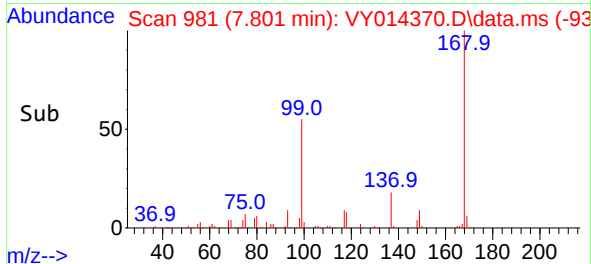
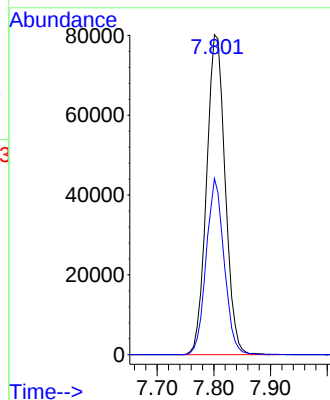
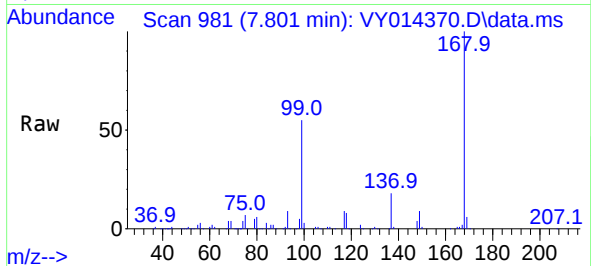




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

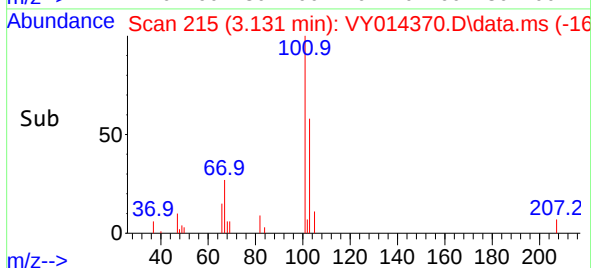
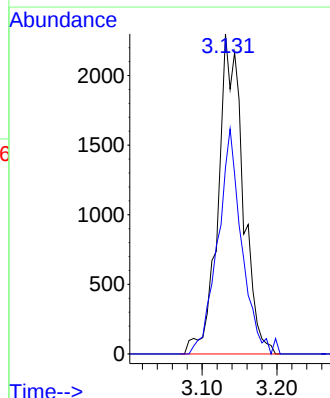
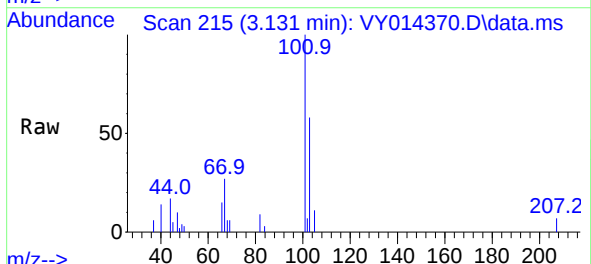
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-12-13-SB-13-GRAB-5

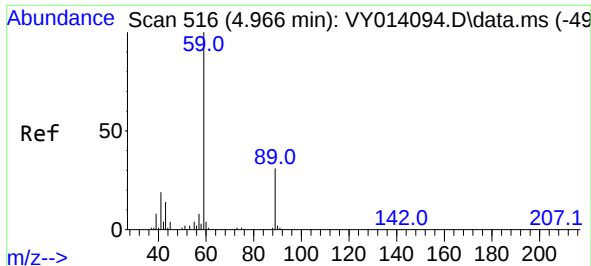
Tgt Ion:168 Resp: 182737
Ion Ratio Lower Upper
168 100
99 55.1 43.4 65.0



#7
Trichlorofluoromethane
Concen: 1.304 ug/l
RT: 3.131 min Scan# 215
Delta R.T. 0.000 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

Tgt Ion:101 Resp: 5319
Ion Ratio Lower Upper
101 100
103 58.2 51.4 77.0

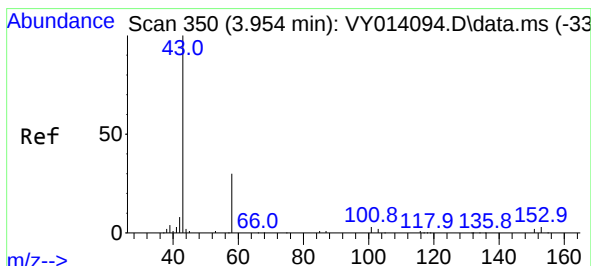
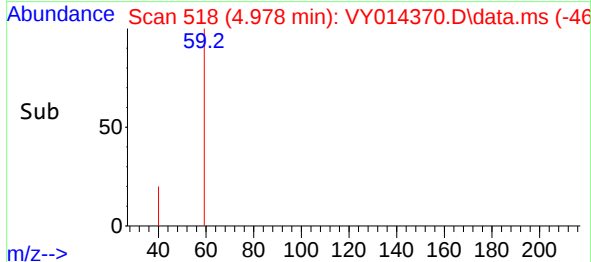
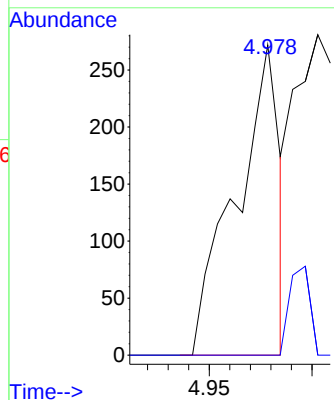
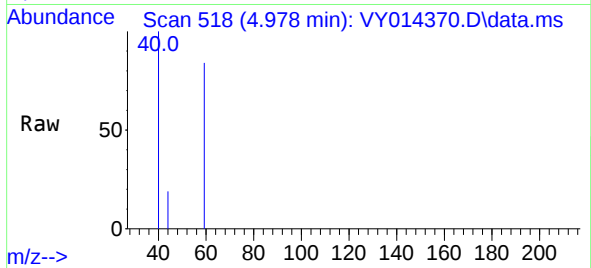




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.978 min Scan# 516
Delta R.T. 0.012 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

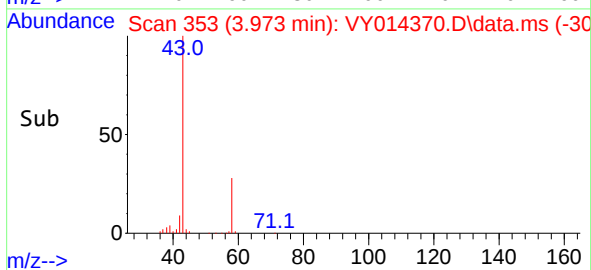
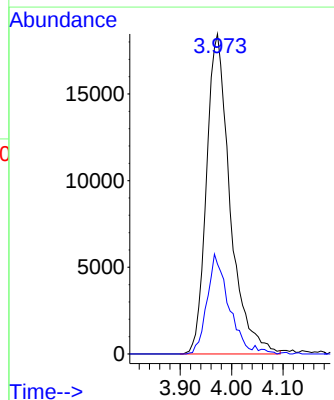
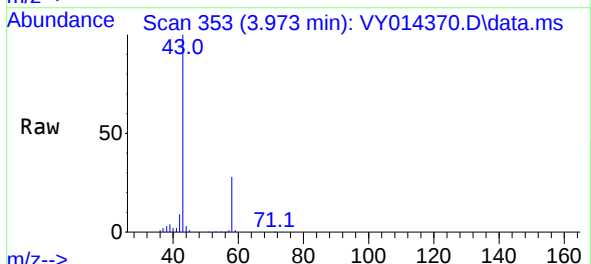
Instrument : MSVOA_Y
ClientSampleId : TOTAL-VOC-12-13-SB-13-GRAB-5

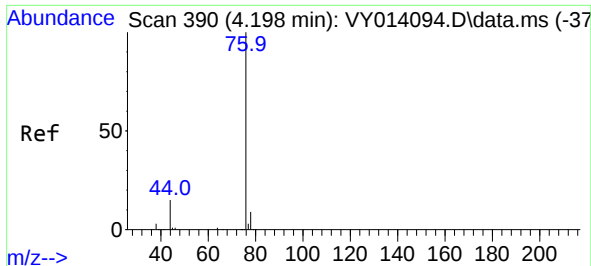
Tgt Ion: 59 Resp: 400
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#16
Acetone
Concen: 76.789 ug/l
RT: 3.973 min Scan# 353
Delta R.T. 0.018 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

Tgt Ion: 43 Resp: 58900
Ion Ratio Lower Upper
43 100
58 28.1 22.7 34.1





#17

Carbon Disulfide

Concen: 2.898 ug/l

RT: 4.210 min Scan# 391

Delta R.T. 0.012 min

Lab File: VY014370.D

Acq: 22 Jun 2023 08:28

Instrument :

MSVOA_Y

ClientSampleId :

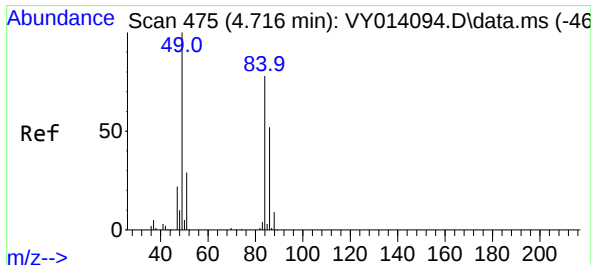
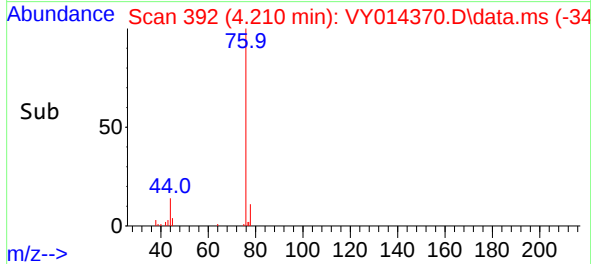
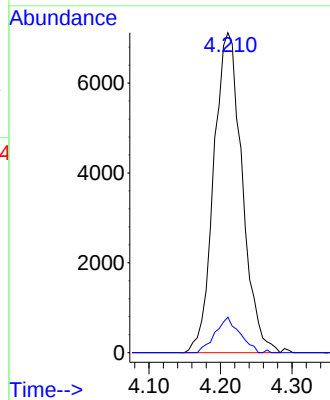
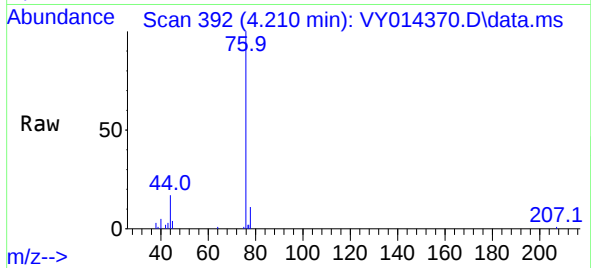
TOTAL-VOC-12-13-SB-13-GRAB-5

Tgt Ion: 76 Resp: 19593

Ion Ratio Lower Upper

76 100

78 11.1 7.0 10.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.735 min Scan# 478

Delta R.T. 0.019 min

Lab File: VY014370.D

Acq: 22 Jun 2023 08:28

Tgt Ion: 84 Resp: 3974

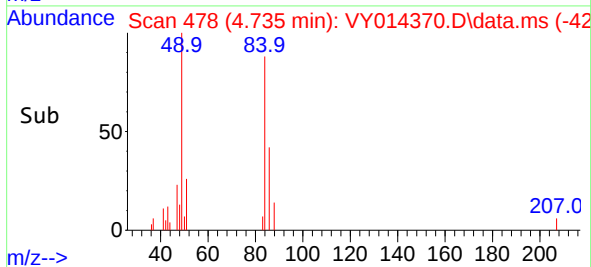
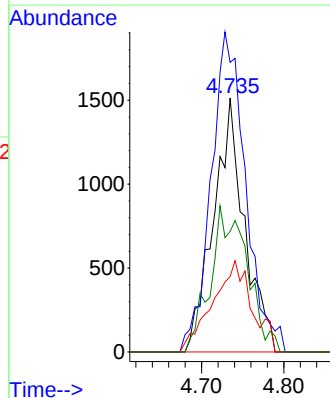
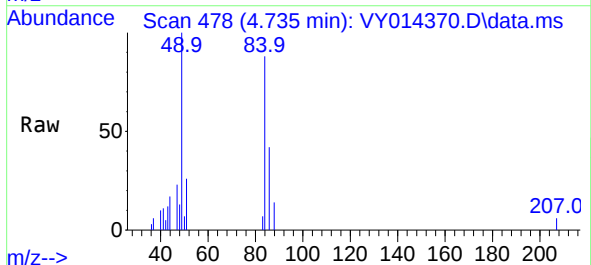
Ion Ratio Lower Upper

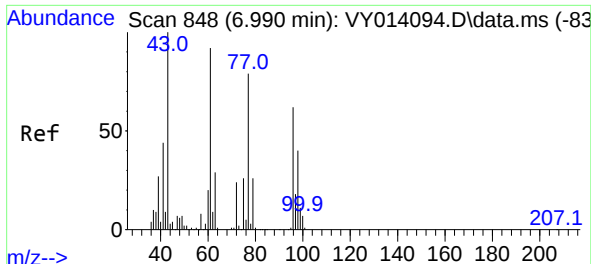
84 100

49 114.1 106.9 160.3

51 29.7 33.2 49.8#

86 47.5 51.0 76.6#





#25

2-Butanone

Concen: 14.218 ug/l

RT: 7.002 min Scan# 81

Delta R.T. 0.012 min

Lab File: VY014370.D

Acq: 22 Jun 2023 08:28

Instrument :

MSVOA_Y

ClientSampleId :

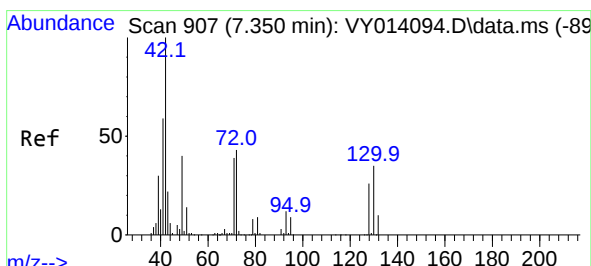
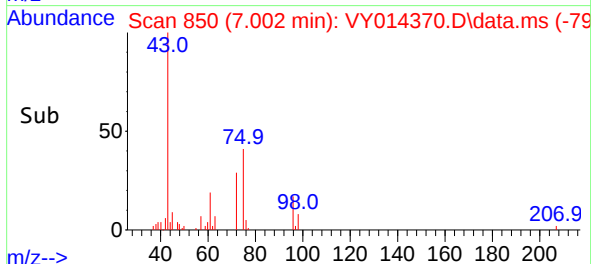
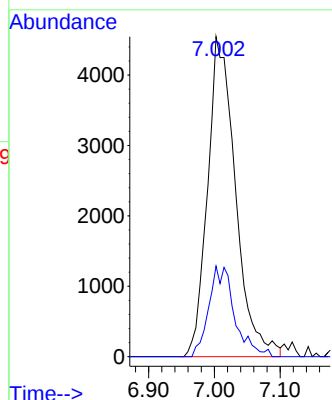
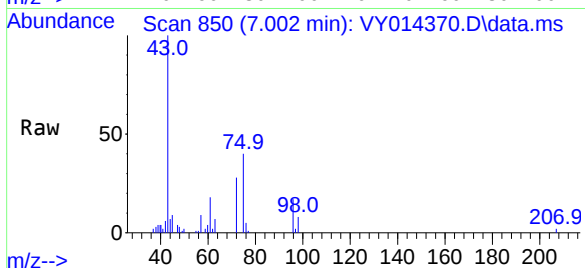
TOTAL-VOC-12-13-SB-13-GRAB-5

Tgt Ion: 43 Resp: 13424

Ion Ratio Lower Upper

43 100

72 28.3 20.5 30.7



#29

Tetrahydrofuran

Concen: 2.337 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.012 min

Lab File: VY014370.D

Acq: 22 Jun 2023 08:28

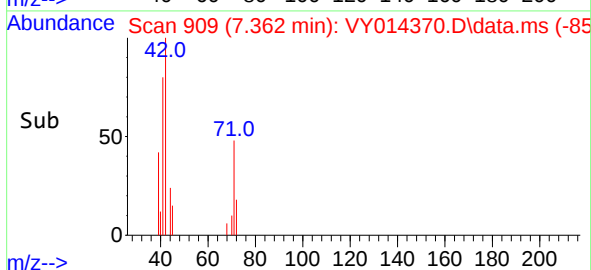
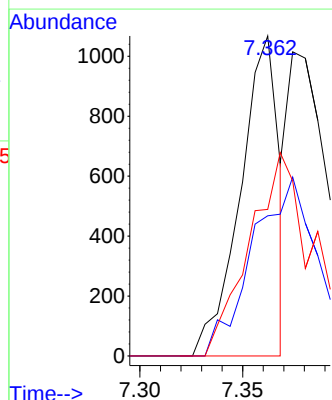
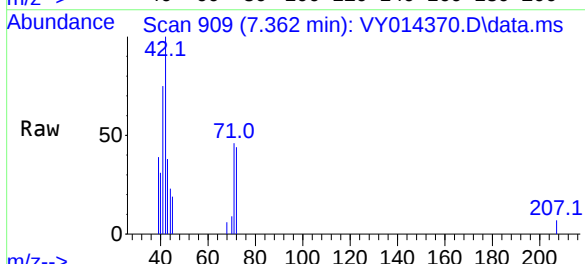
Tgt Ion: 42 Resp: 1399

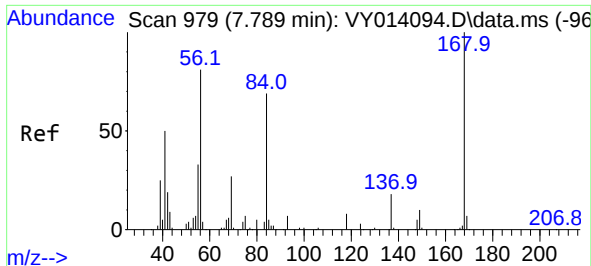
Ion Ratio Lower Upper

42 100

72 102.5 32.8 49.2#

71 111.6 31.0 46.4#

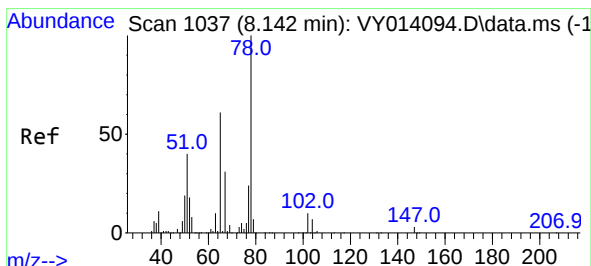
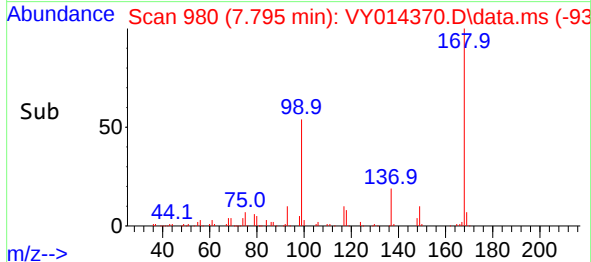
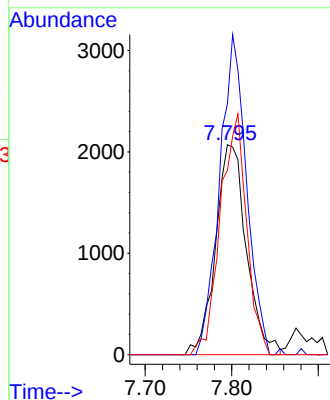
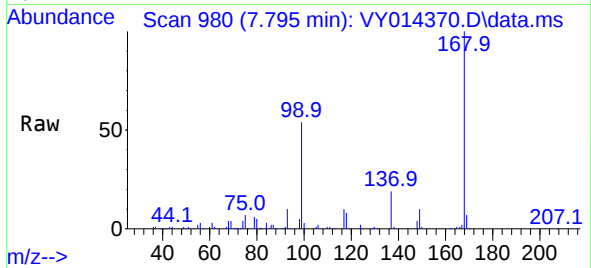




#31
Cyclohexane
Concen: 1.503 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

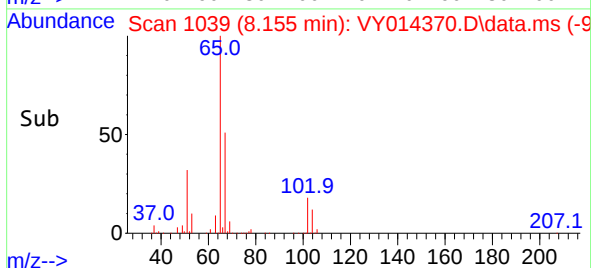
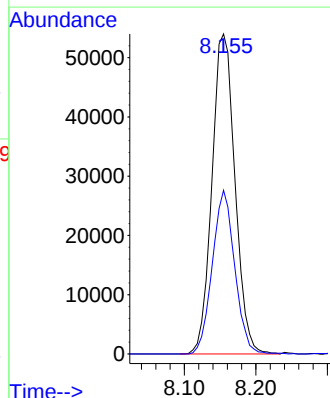
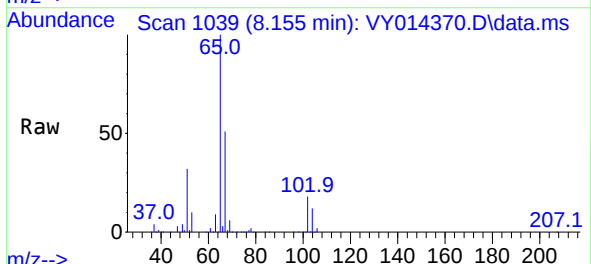
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-12-13-SB-13-GRAB-5

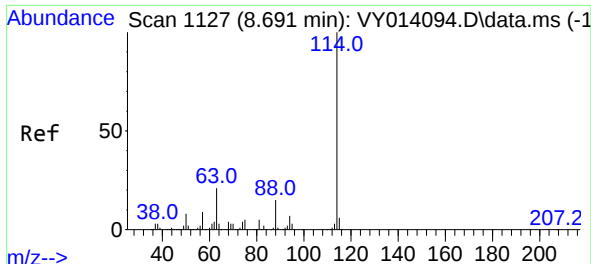
Tgt Ion: 56 Resp: 5125
Ion Ratio Lower Upper
56 100
69 119.3 27.8 41.6#
84 87.7 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 47.450 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.013 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

Tgt Ion: 65 Resp: 120744
Ion Ratio Lower Upper
65 100
67 49.7 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.703 min Scan# 1127

Delta R.T. 0.012 min

Lab File: VY014370.D

Acq: 22 Jun 2023 08:28

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-12-13-SB-13-GRAB-5

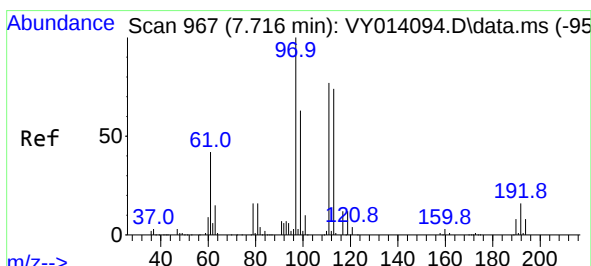
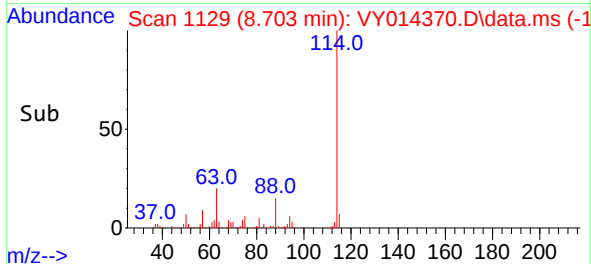
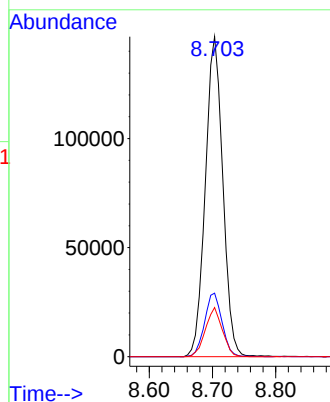
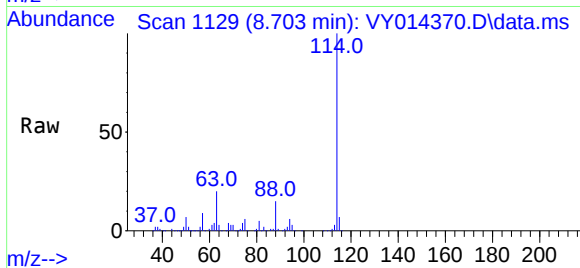
Tgt Ion:114 Resp: 282364

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 46.057 ug/l

RT: 7.734 min Scan# 970

Delta R.T. 0.018 min

Lab File: VY014370.D

Acq: 22 Jun 2023 08:28

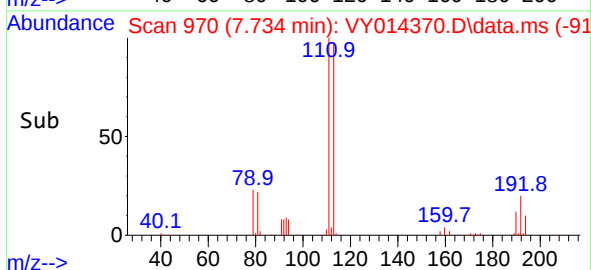
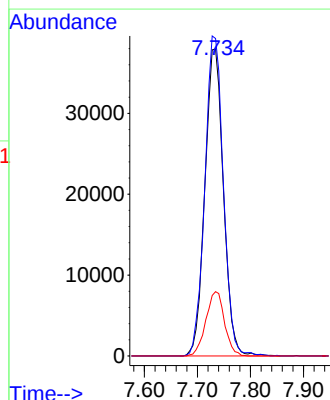
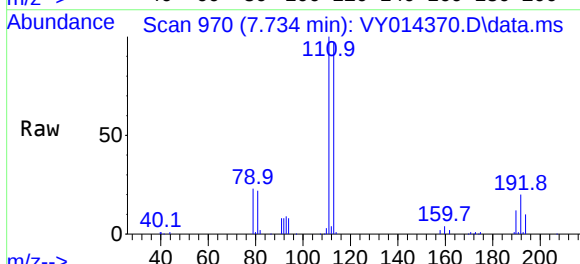
Tgt Ion:113 Resp: 92227

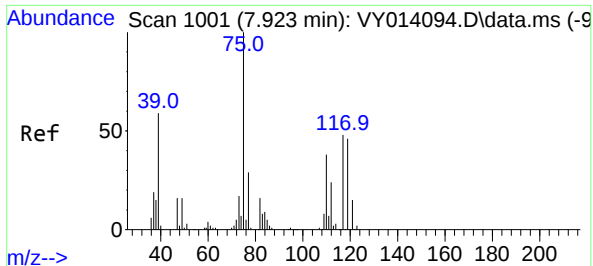
Ion Ratio Lower Upper

113 100

111 103.9 81.3 121.9

192 21.0 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.440 ug/l

RT: 7.801 min Scan# 91

Delta R.T. -0.122 min

Lab File: VY014370.D

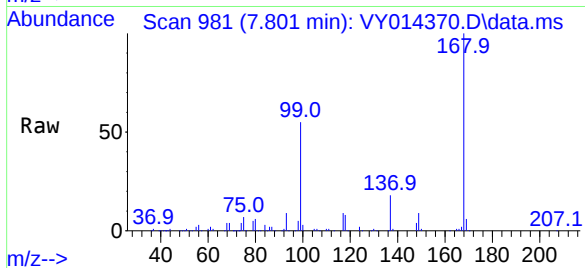
Acq: 22 Jun 2023 08:28

Instrument :

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ClientSampleId :

TOTAL-VOC-12-13-SB-13-GRAB-5



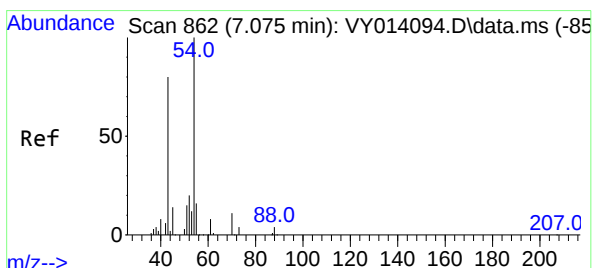
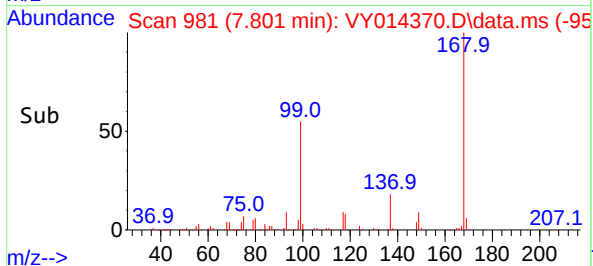
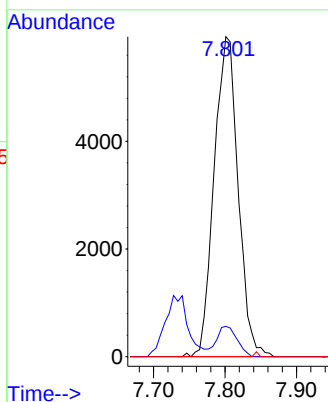
Tgt Ion: 75 Resp: 13862

Ion Ratio Lower Upper

75 100

110 8.4 17.8 53.5#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 6.232 ug/l

RT: 7.002 min Scan# 850

Delta R.T. -0.073 min

Lab File: VY014370.D

Acq: 22 Jun 2023 08:28

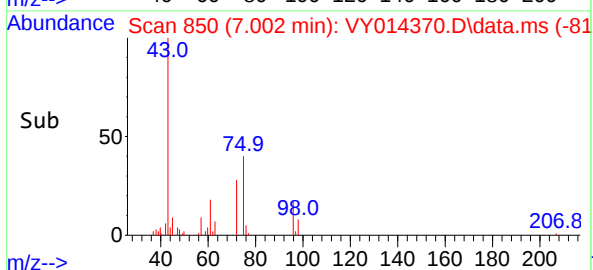
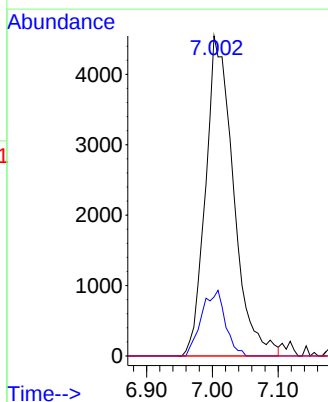
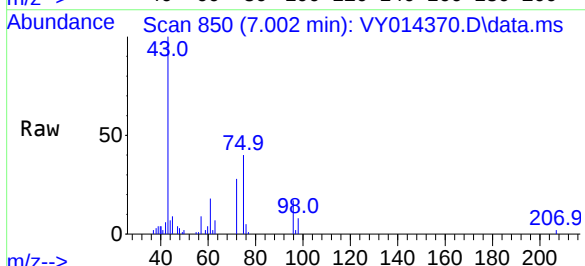
Tgt Ion: 43 Resp: 13424

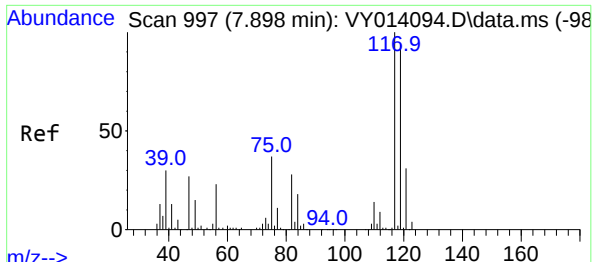
Ion Ratio Lower Upper

43 100

61 17.5 10.1 15.1#

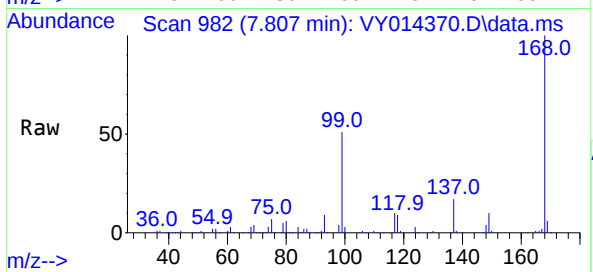
70 0.0 7.1 10.7#



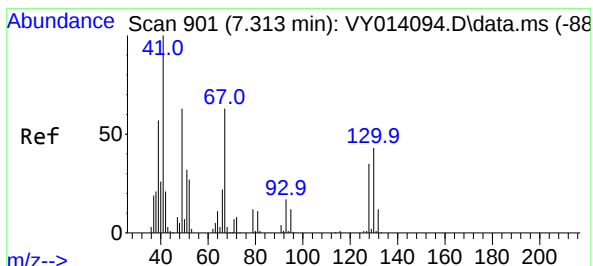
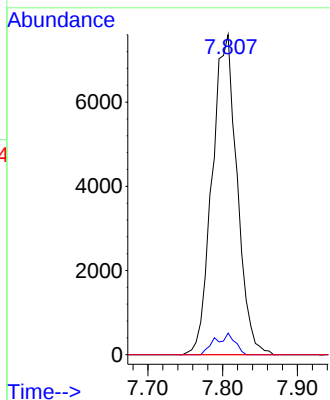
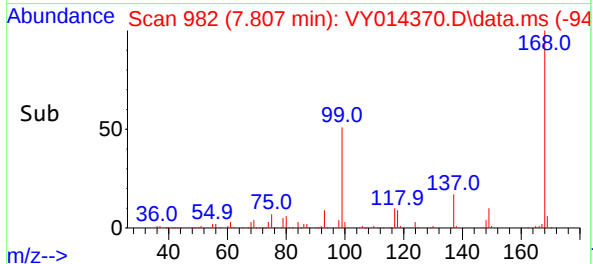


#38
Carbon Tetrachloride
Concen: 4.889 ug/l
RT: 7.807 min Scan# 911
Delta R.T. -0.091 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

Instrument : MSVOA_Y
ClientSampleId : TOTAL-VOC-12-13-SB-13-GRAB-5

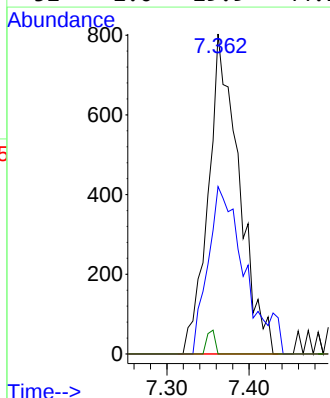
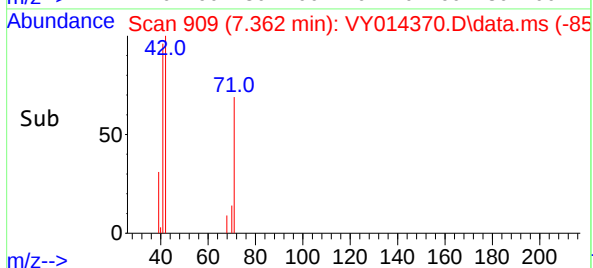
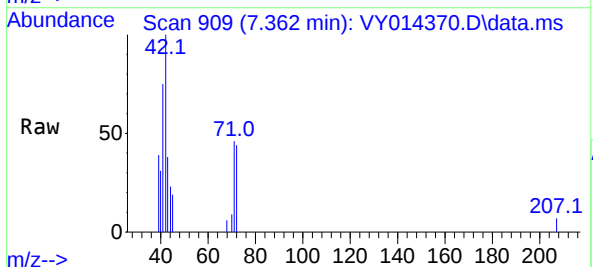


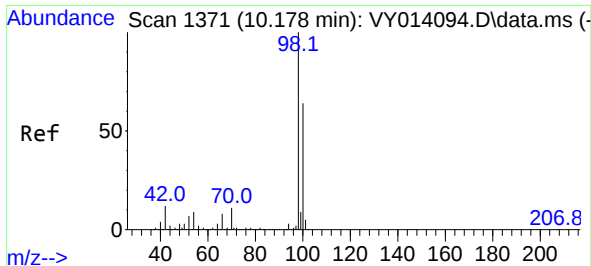
Tgt Ion:117 Resp: 17613
Ion Ratio Lower Upper
117 100
119 6.7 76.4 114.6#
121 0.0 25.8 38.6#



#41
Methacrylonitrile
Concen: 1.906 ug/l
RT: 7.362 min Scan# 909
Delta R.T. 0.049 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

Tgt Ion: 41 Resp: 2095
Ion Ratio Lower Upper
41 100
39 62.3 52.1 78.1
67 0.0 66.2 99.2#
52 2.0 29.9 44.9#

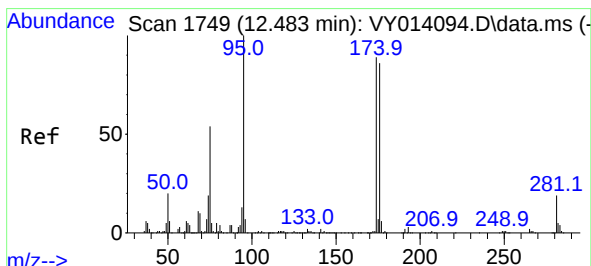
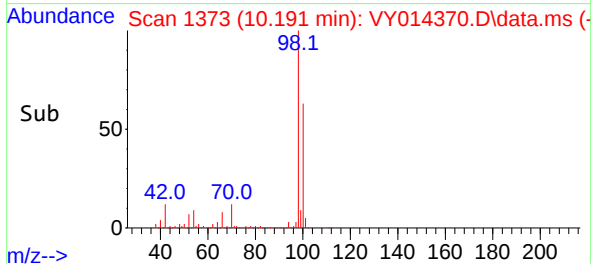
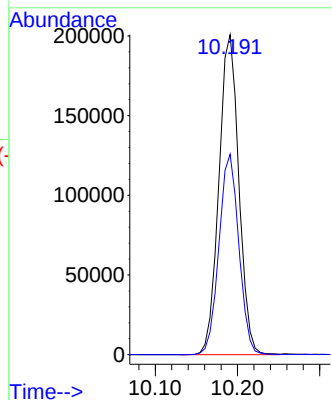
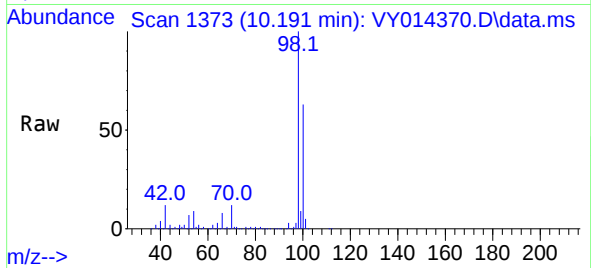




#50
Toluene-d8
Concen: 45.132 ug/l
RT: 10.191 min Scan# 11
Delta R.T. 0.013 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

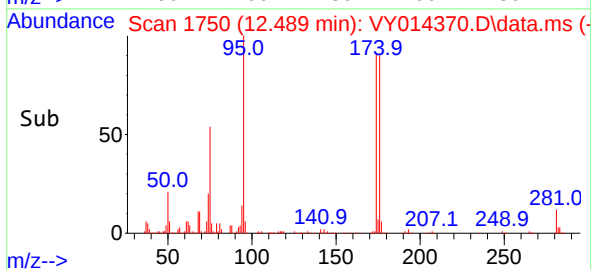
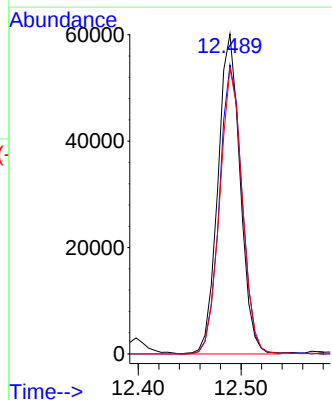
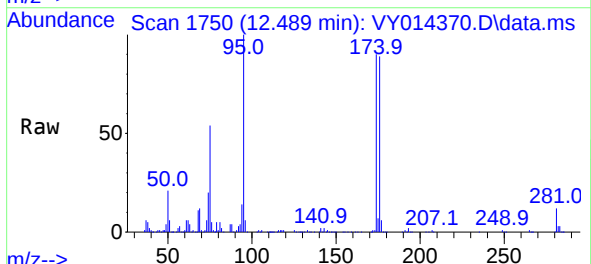
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-12-13-SB-13-GRAB-5

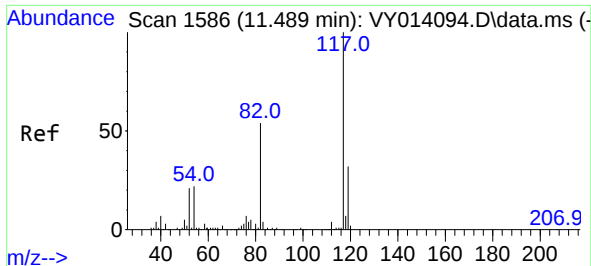
Tgt Ion: 98 Resp: 337873
Ion Ratio Lower Upper
98 100
100 62.5 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 33.978 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

Tgt Ion: 95 Resp: 90361
Ion Ratio Lower Upper
95 100
174 92.1 0.0 178.2
176 90.3 0.0 173.8

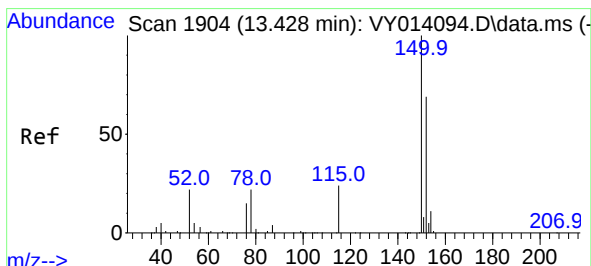
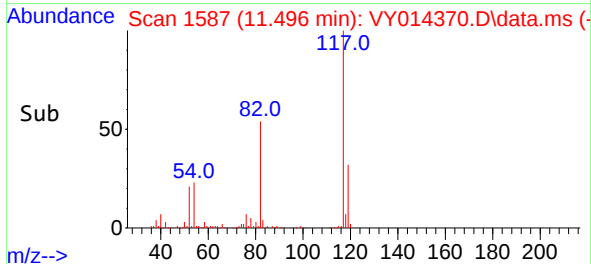
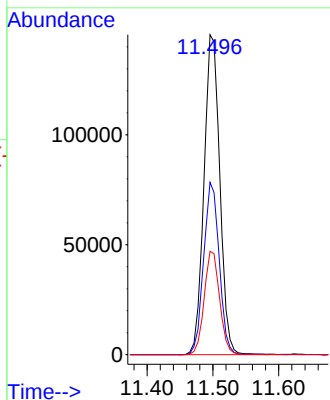
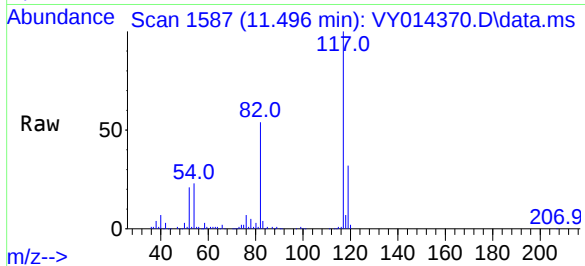




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 11
Delta R.T. 0.007 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

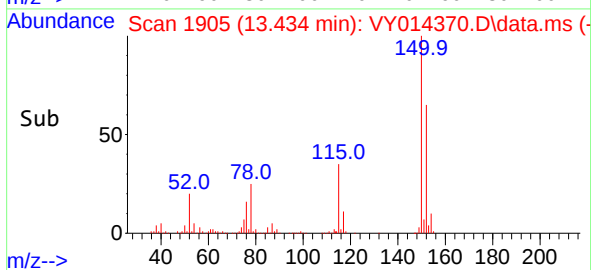
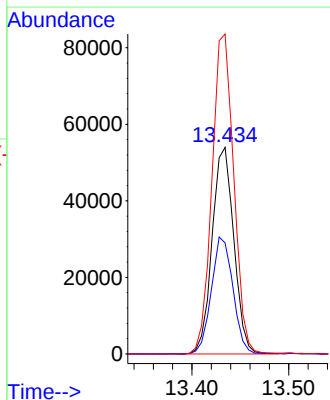
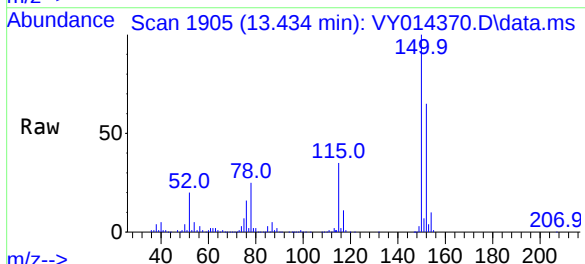
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-12-13-SB-13-GRAB-5

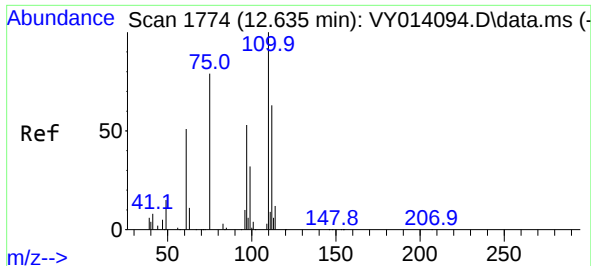
Tgt Ion:	117	Resp:	243986
Ion	Ratio	Lower	Upper
117	100		
82	53.9	43.4	65.0
119	32.3	26.3	39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. 0.006 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

Tgt Ion:	152	Resp:	84281
Ion	Ratio	Lower	Upper
152	100		
115	56.4	28.8	86.5
150	155.1	0.0	348.8

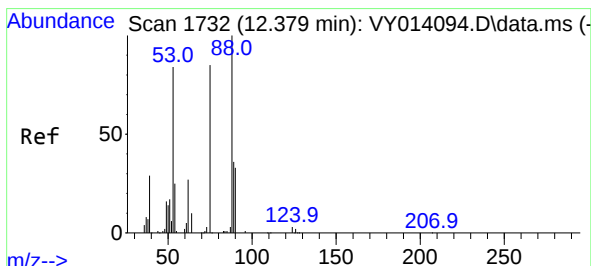
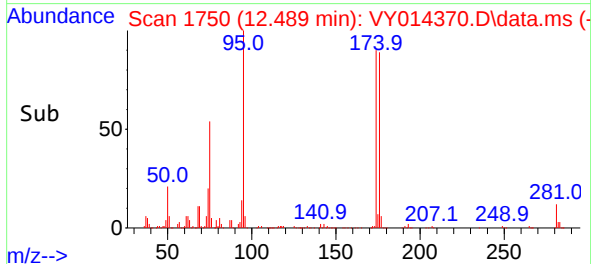
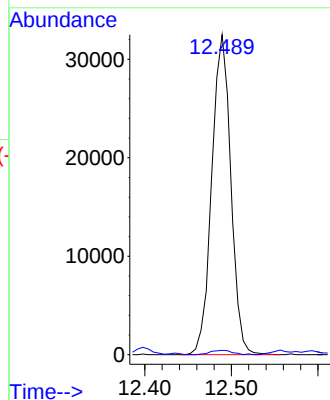
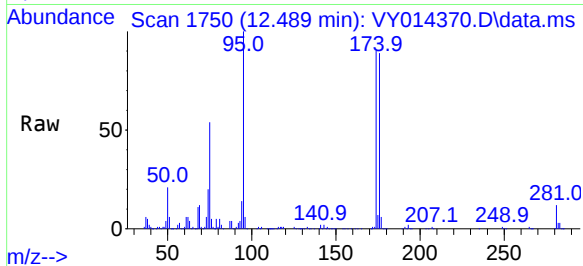




#76
1,2,3-Trichloropropane
Concen: 44.936 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.146 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

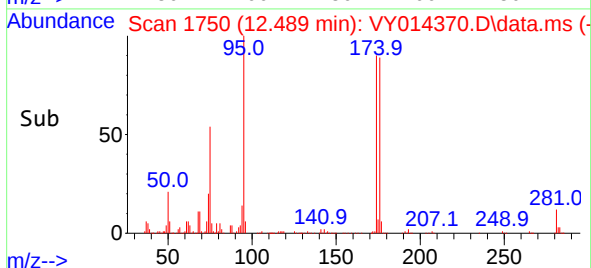
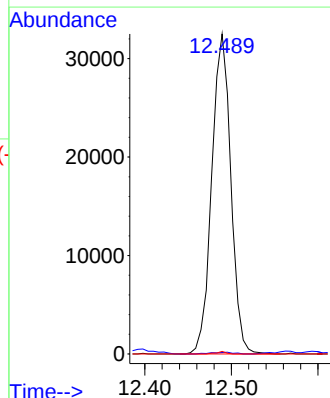
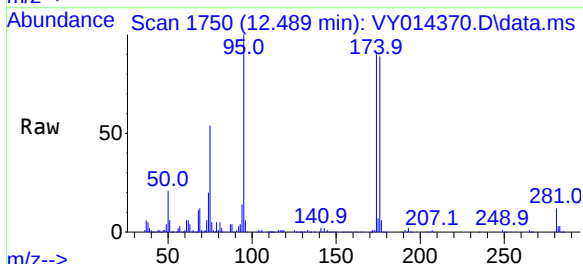
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-12-13-SB-13-GRAB-5

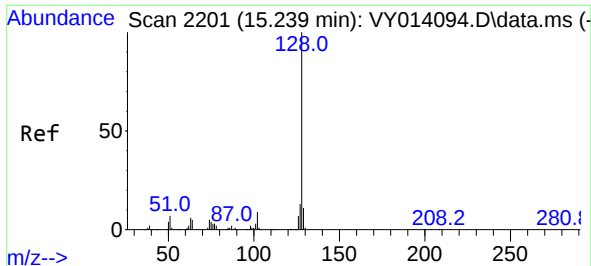
Tgt Ion: 75 Resp: 49688
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 97.135 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.110 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

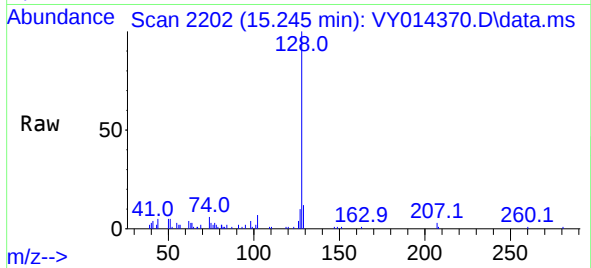
Tgt Ion: 75 Resp: 49688
Ion Ratio Lower Upper
75 100
53 0.6 77.8 116.8#
89 0.4 37.4 56.0#





#95
Naphthalene
Concen: 3.092 ug/l
RT: 15.245 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY014370.D
Acq: 22 Jun 2023 08:28

Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-12-13-SB-13-GRAB-5



Tgt Ion:	128	Resp:	11520
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.8	16.2
129	12.8	8.6	13.0

