

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111621\
 Data File : VW023559.D
 Acq On : 17 Nov 2021 01:33
 Operator : SY/MD
 Sample : M4627-09
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 H4667

Quant Time: Nov 17 03:42:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Nov 17 02:49:39 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.622	114	126484	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.857	117	117469	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	61368	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	23856	3.011	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.200%
7) Chloroethane-d5	1.568	69	26679	4.131	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.600%
11) 1,1-Dichloroethene-d2	2.105	63	35623	2.402	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	48.000%#
20) 2-Butanone-d5	3.995	46	54390	39.843	ug/L	0.09
Spiked Amount	50.000	Range	40 - 130	Recovery	=	79.680%
24) Chloroform-d	4.346	84	65751	3.894	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.800%
26) 1,2-Dichloroethane-d4	5.040	65	30217	3.979	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.600%
32) Benzene-d6	5.047	84	118789	3.941	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.800%
36) 1,2-Dichloropropane-d6	6.082	67	39850	4.491	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.800%
41) Toluene-d8	7.320	98	105192	3.724	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.400%
43) trans-1,3-Dichloroprop...	7.632	79	12390	3.683	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.600%
46) 2-Hexanone-d5	8.108	63	44922	36.292	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	72.580%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	25959	4.068	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	44914	4.395	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.336	85	1761	0.143	ug/L #	84
5) Vinyl chloride	1.307	62	4868	0.465	ug/L #	69
8) Chloroethane	1.584	64	4404	0.729	ug/L	90
12) 1,1-Dichloroethene	2.101	96	538	0.071	ug/L #	1
14) Carbon disulfide	2.285	76	1929	0.068	ug/L #	90
15) Methyl Acetate	2.423	43	1625	0.688	ug/L #	52
17) Methyl tert-butyl Ether	2.783	73	2294	0.138	ug/L #	1
18) trans-1,2-Dichloroethene	2.751	96	9916	1.069	ug/L	94
19) 1,1-Dichloroethane	3.182	63	7592	0.485	ug/L	94
22) cis-1,2-Dichloroethene	3.902	96	2804	0.314	ug/L #	91
30) Cyclohexane	4.658	56	1820	0.142	ug/L #	73
33) Benzene	5.098	78	99088	3.018	ug/L	100
34) Trichloroethene	5.921	95	912	0.104	ug/L	87
35) Methylcyclohexane	6.079	83	10037	0.728	ug/L #	19
37) 1,2-Dichloropropane	6.079	63	4433	0.578	ug/L #	83
39) cis-1,3-Dichloropropene	6.992	75	933	0.085	ug/L #	72
42) Toluene	7.391	91	328500	9.354	ug/L	97
45) 1,1,2-Trichloroethane	7.789	97	530	0.096	ug/L #	15
48) 2-Hexanone	8.162	43	6059	2.432	ug/L #	76

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111621\
 Data File : VV023559.D
 Acq On : 17 Nov 2021 01:33
 Operator : SY/MD
 Sample : M4627-09
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 H4667

Quant Time: Nov 17 03:42:17 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Nov 17 02:49:39 2021
 Response via : Initial Calibration

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

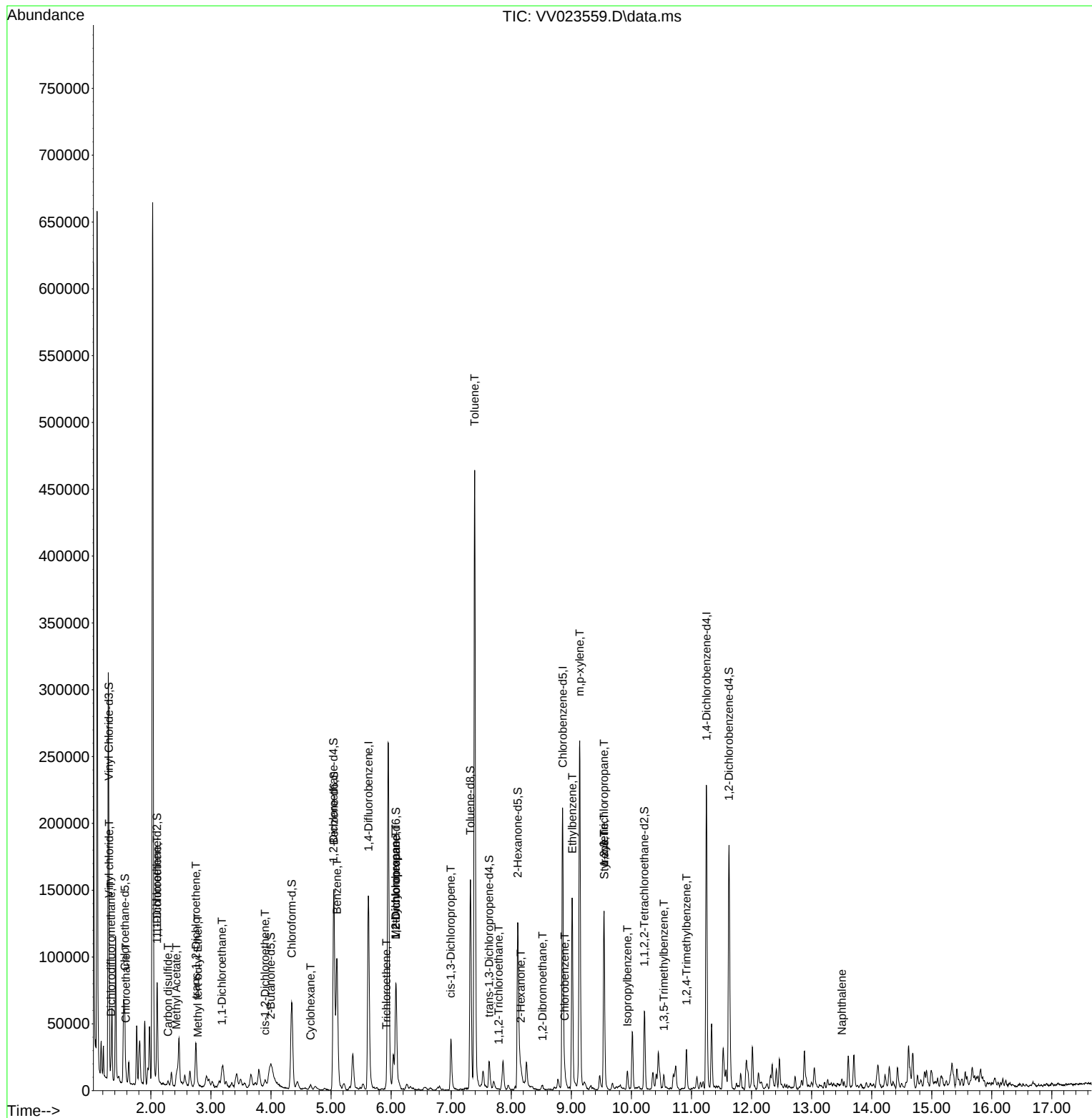
50) 1,2-Dibromoethane	8.522	107	447	0.088	ug/L #	92
51) Chlorobenzene	8.889	112	6323	0.271	ug/L	98
52) Ethylbenzene	9.014	91	100140	2.704	ug/L	97
53) m,p-xylene	9.140	106	74024	5.093	ug/L	97
54) o-xylene	9.545	106	35736	2.621	ug/L	97
55) Styrene	9.548	104	2272	0.097	ug/L #	1
60) Isopropylbenzene	9.934	105	8948	0.254	ug/L	97
61) 1,2,3-Trichloropropane	9.545	75	956	0.235	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.542	105	5673	0.194	ug/L	95
63) 1,2,4-Trimethylbenzene	10.918	105	16288	0.560	ug/L	99
71) Naphthalene	13.506	128	4492	0.270	ug/L #	94

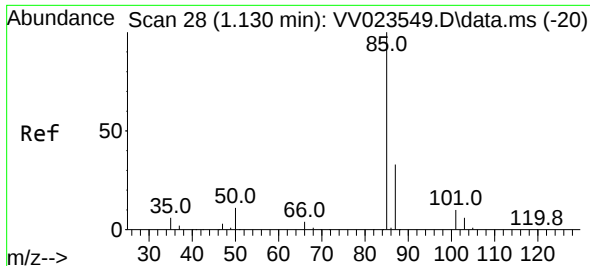
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV111621\
Data File : VV023559.D
Acq On : 17 Nov 2021 01:33
Operator : SY/MD
Sample : M4627-09
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
H4667

Quant Time: Nov 17 03:42:17 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Nov 17 02:49:39 2021
Response via : Initial Calibration

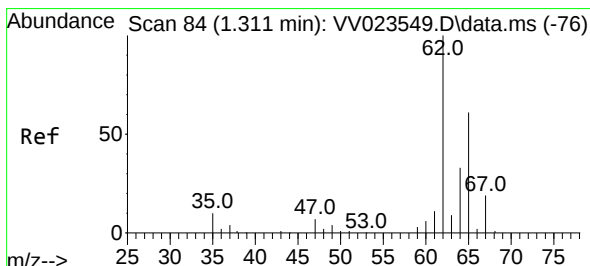
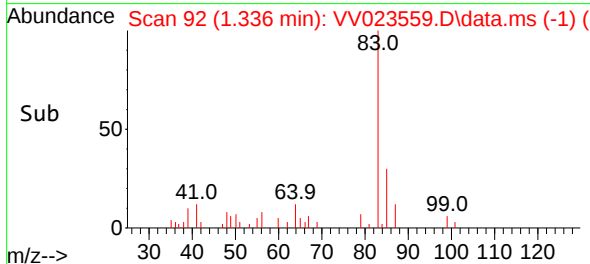
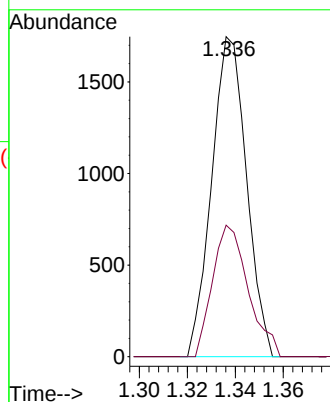
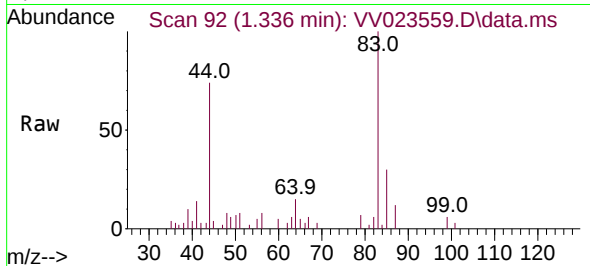




#2
Dichlorodifluoromethane
Concen: 0.143 ug/L
RT: 1.336 min Scan# 91
Delta R.T. 0.206 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

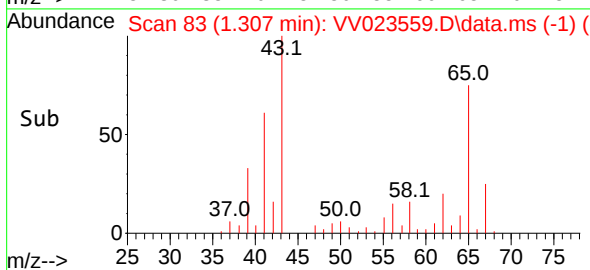
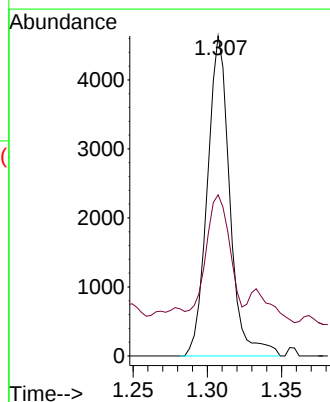
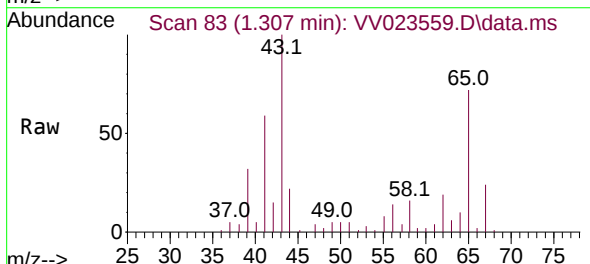
Instrument :
MSVOA_V
ClientSampleId :
H4667

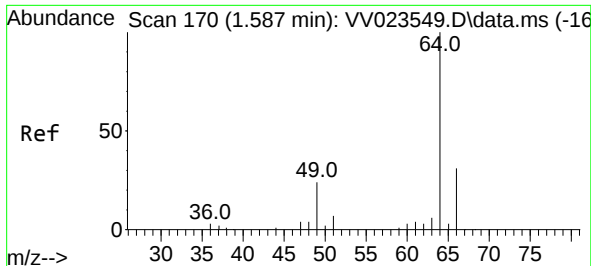
Tgt Ion: 85 Resp: 1761
Ion Ratio Lower Upper
85 100
87 42.1 26.6 39.8#



#5
Vinyl chloride
Concen: 0.465 ug/L
RT: 1.307 min Scan# 83
Delta R.T. -0.003 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion: 62 Resp: 4868
Ion Ratio Lower Upper
62 100
64 50.3 23.1 42.9#

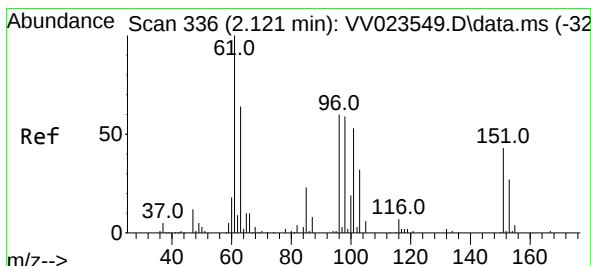
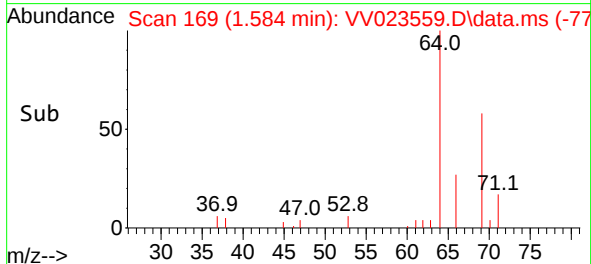
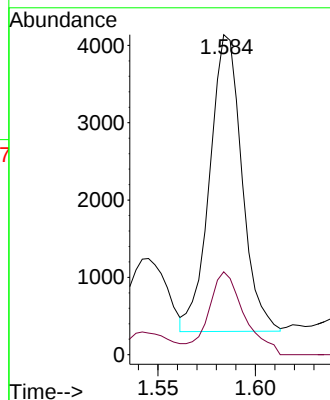
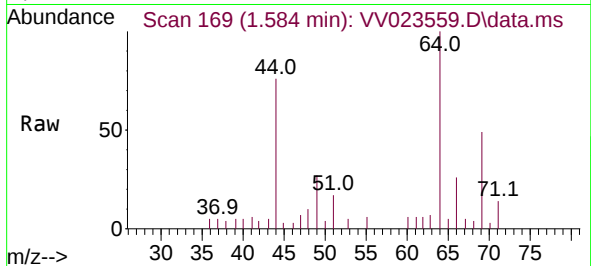




#8
Chloroethane
Concen: 0.729 ug/L
RT: 1.584 min Scan# 1
Delta R.T. -0.003 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

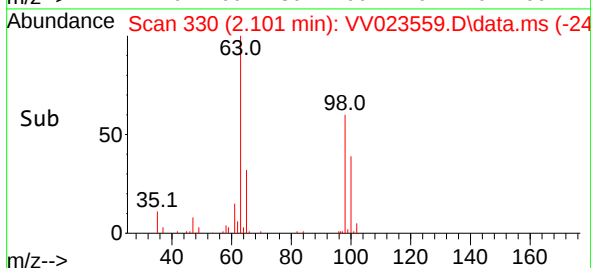
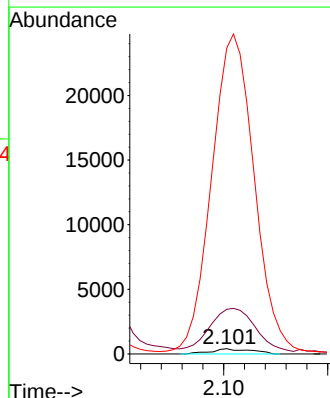
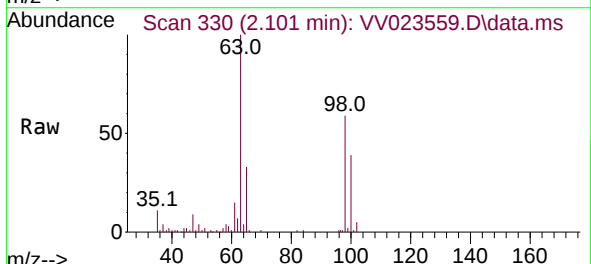
Instrument :
MSVOA_V
ClientSampleId :
H4667

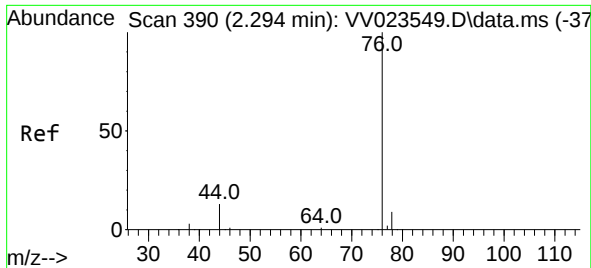
Tgt Ion: 64 Resp: 4404
Ion Ratio Lower Upper
64 100
66 25.9 22.1 41.1



#12
1,1-Dichloroethene
Concen: 0.071 ug/L
RT: 2.101 min Scan# 330
Delta R.T. -0.019 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion: 96 Resp: 538
Ion Ratio Lower Upper
96 100
61 834.8 121.5 225.7#
63 5717.9 99.6 185.0#

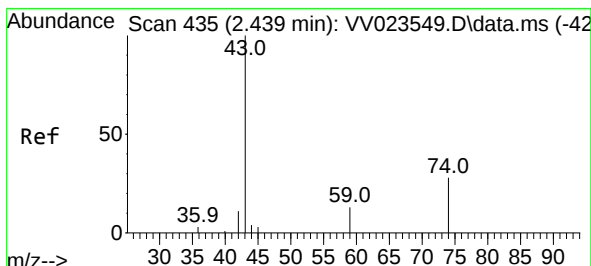
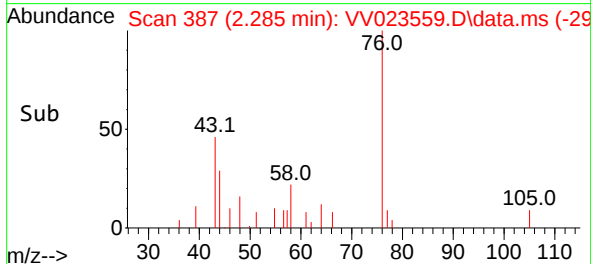
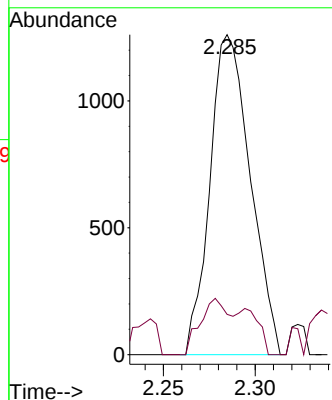
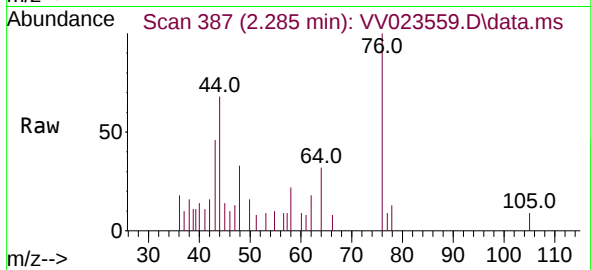




#14
Carbon disulfide
Concen: 0.068 ug/L
RT: 2.285 min Scan# 31
Delta R.T. -0.010 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

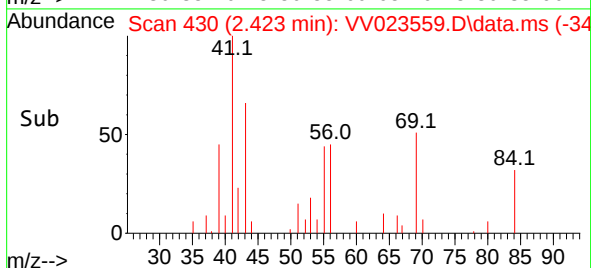
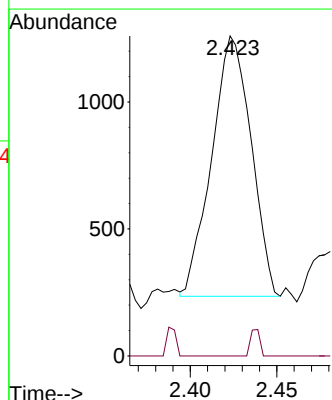
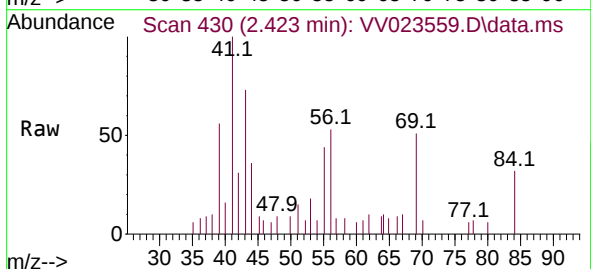
Instrument :
MSVOA_V
ClientSampleId :
H4667

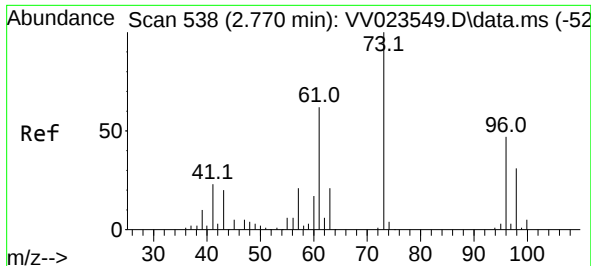
Tgt Ion: 76 Resp: 1929
Ion Ratio Lower Upper
76 100
78 12.6 7.2 10.8#



#15
Methyl Acetate
Concen: 0.688 ug/L
RT: 2.423 min Scan# 430
Delta R.T. -0.016 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion: 43 Resp: 1625
Ion Ratio Lower Upper
43 100
74 2.5 22.2 33.2#

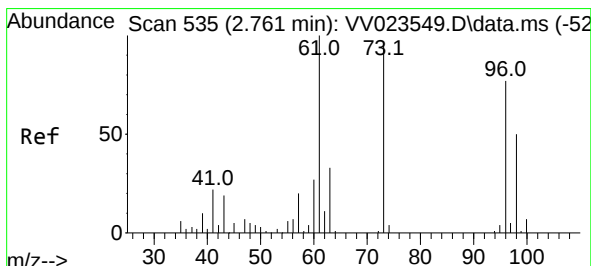
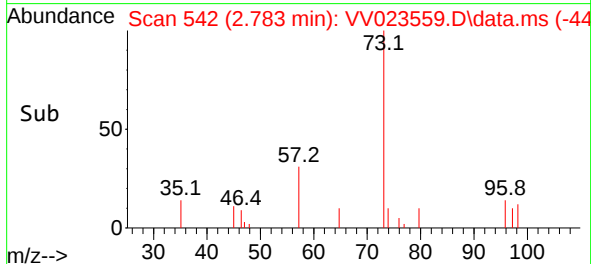
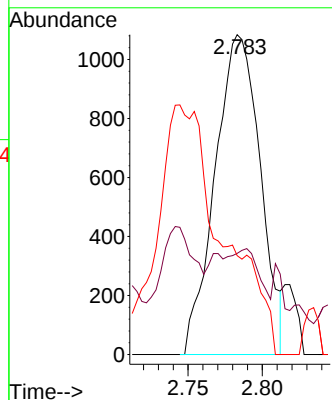
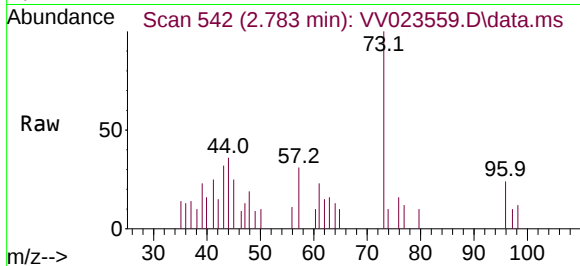




#17
Methyl tert-butyl Ether
Concen: 0.138 ug/L
RT: 2.783 min Scan# 54
Delta R.T. 0.013 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

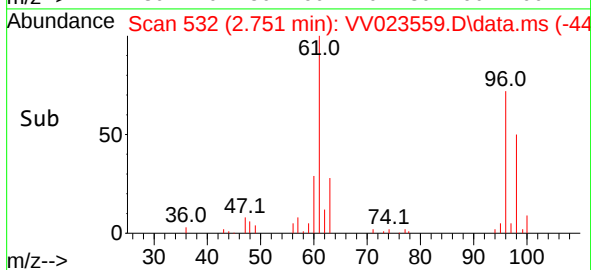
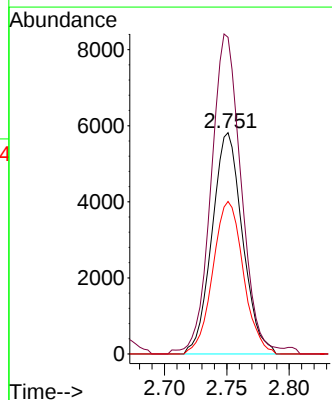
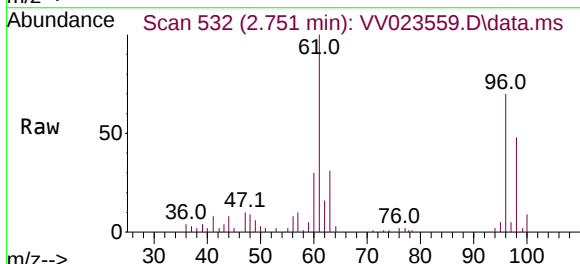
Instrument :
MSVOA_V
ClientSampleId :
H4667

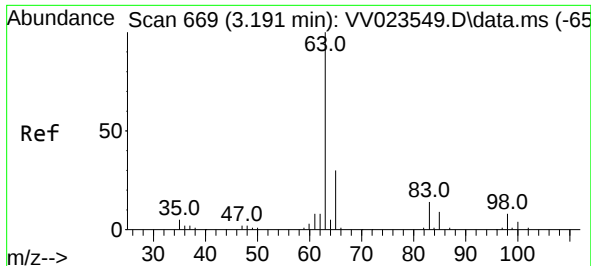
Tgt Ion: 73 Resp: 2294
Ion Ratio Lower Upper
73 100
43 15.7 17.4 26.0#
57 112.8 16.5 24.7#



#18
trans-1,2-Dichloroethene
Concen: 1.069 ug/L
RT: 2.751 min Scan# 532
Delta R.T. -0.010 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion: 96 Resp: 9916
Ion Ratio Lower Upper
96 100
61 143.1 93.2 173.2
98 68.9 47.0 87.2





#19

1,1-Dichloroethane

Concen: 0.485 ug/L

RT: 3.182 min Scan# 6

Delta R.T. -0.010 min

Lab File: VV023559.D

Acq: 17 Nov 2021 01:33

Instrument :

MSVOA_V

ClientSampleId :

H4667

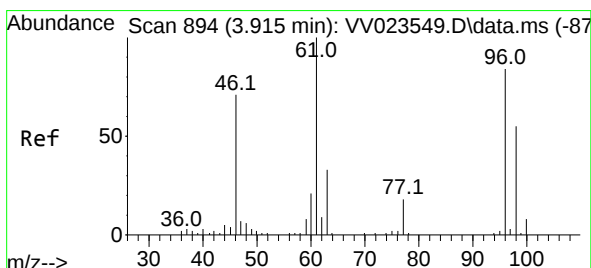
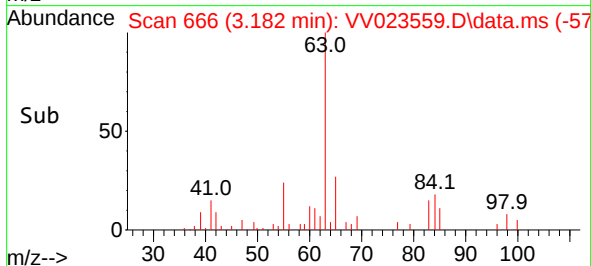
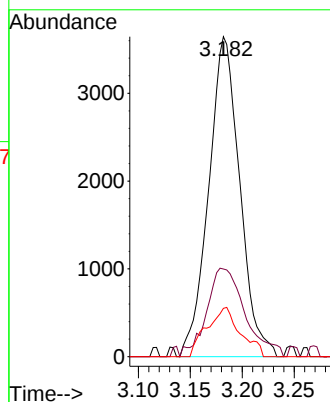
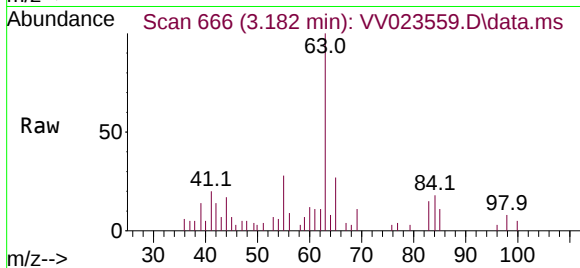
Tgt Ion: 63 Resp: 7592

Ion Ratio Lower Upper

63 100

65 27.4 22.6 42.0

83 15.1 11.1 20.7



#22

cis-1,2-Dichloroethene

Concen: 0.314 ug/L

RT: 3.902 min Scan# 890

Delta R.T. -0.013 min

Lab File: VV023559.D

Acq: 17 Nov 2021 01:33

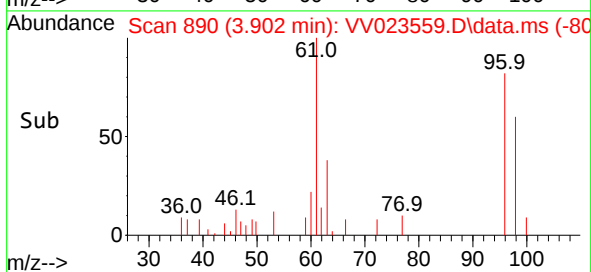
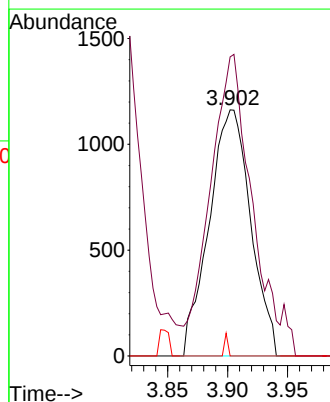
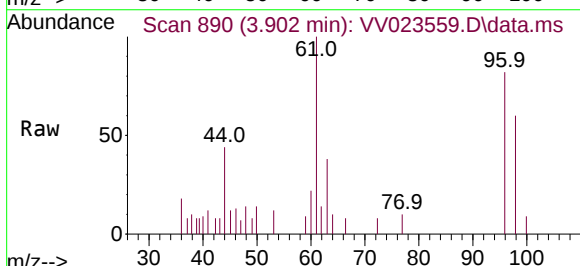
Tgt Ion: 96 Resp: 2804

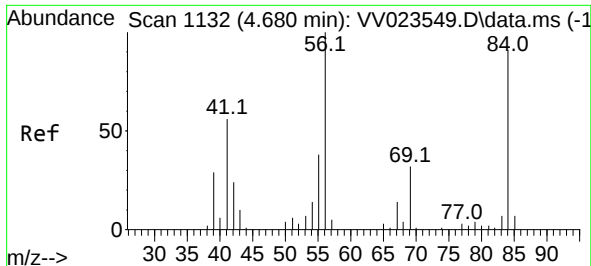
Ion Ratio Lower Upper

96 100

61 121.5 92.3 171.3

68 0.0 0.4 0.8#

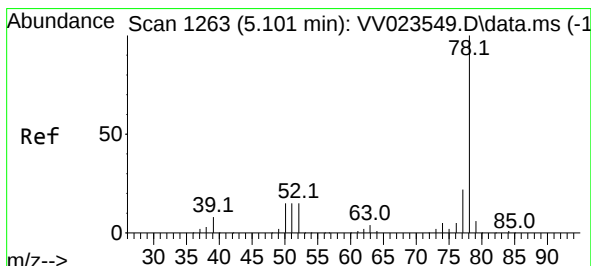
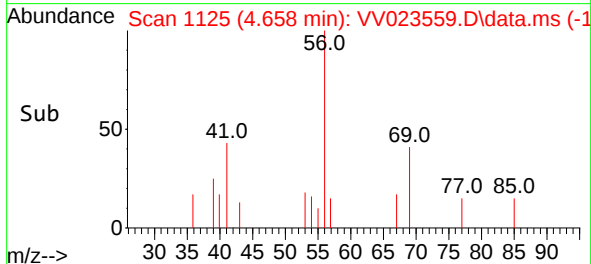
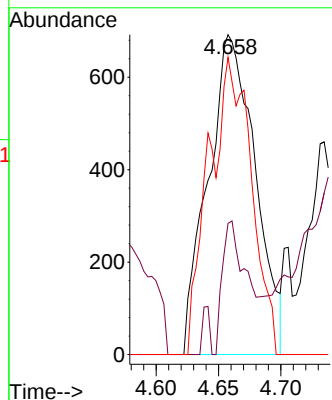
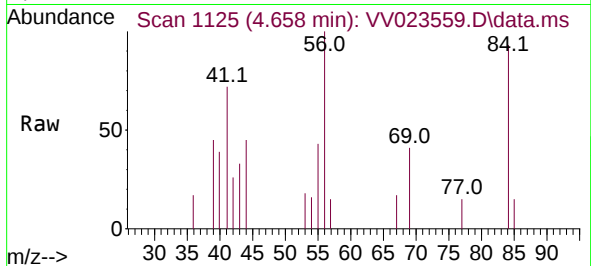




#30
Cyclohexane
Concen: 0.142 ug/L
RT: 4.658 min Scan# 1125
Delta R.T. -0.023 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

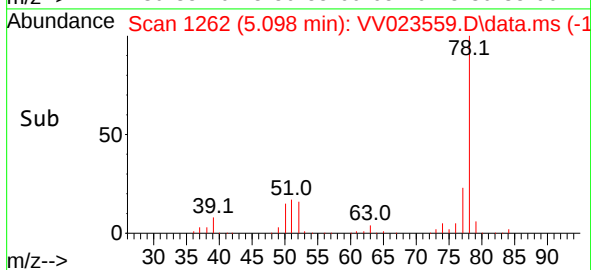
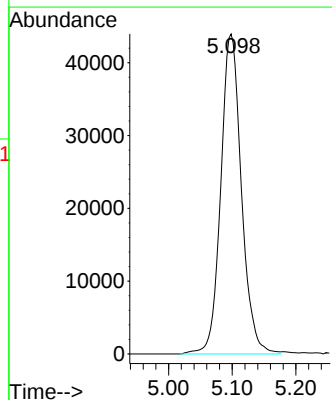
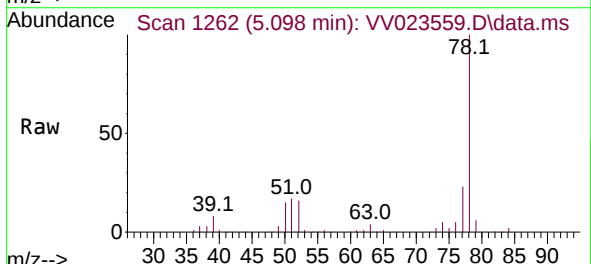
Instrument :
MSVOA_V
ClientSampleId :
H4667

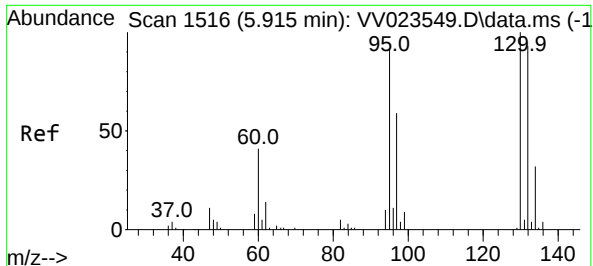
Tgt Ion: 56 Resp: 1820
Ion Ratio Lower Upper
56 100
69 22.3 23.5 35.3#
84 60.0 71.6 107.4#



#33
Benzene
Concen: 3.018 ug/L
RT: 5.098 min Scan# 1262
Delta R.T. -0.003 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion: 78 Resp: 99088

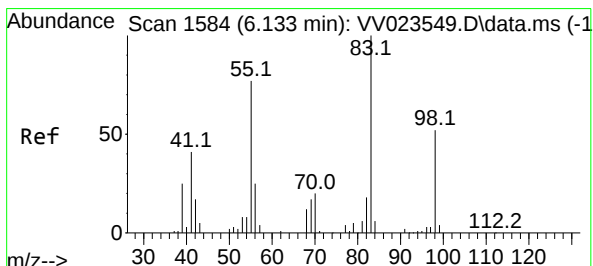
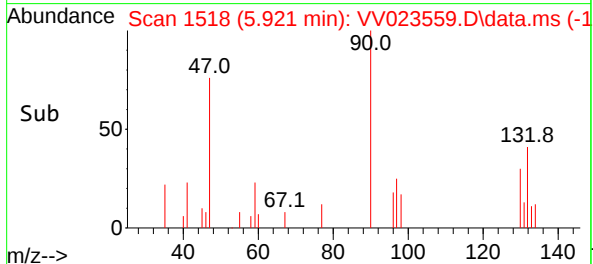
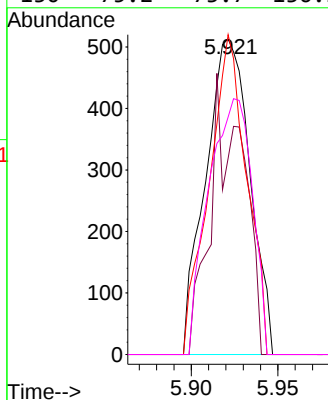
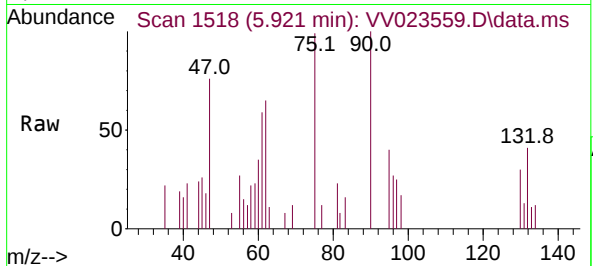




#34
Trichloroethene
Concen: 0.104 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.006 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

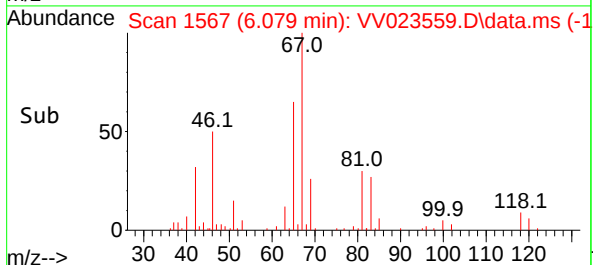
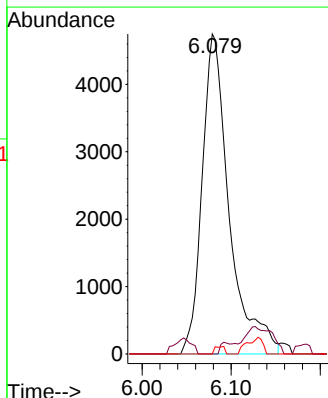
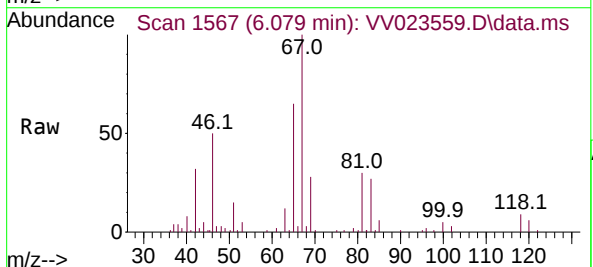
Instrument :
MSVOA_V
ClientSampleId :
H4667

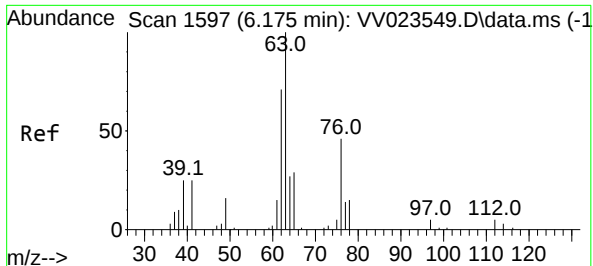
Tgt Ion:	95	Resp:	912
Ion	Ratio	Lower	Upper
95	100		
97	62.2	45.0	83.6
132	101.4	69.7	129.4
130	75.2	73.7	136.9



#35
Methylcyclohexane
Concen: 0.728 ug/L
RT: 6.079 min Scan# 1567
Delta R.T. -0.055 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion:	83	Resp:	10037
Ion	Ratio	Lower	Upper
83	100		
55	1.5	62.8	94.2#
98	0.8	37.9	56.9#





#37

1,2-Dichloropropane

Concen: 0.578 ug/L

RT: 6.079 min Scan# 11

Delta R.T. -0.096 min

Lab File: VV023559.D

Acq: 17 Nov 2021 01:33

Instrument :

MSVOA_V

ClientSampleId :

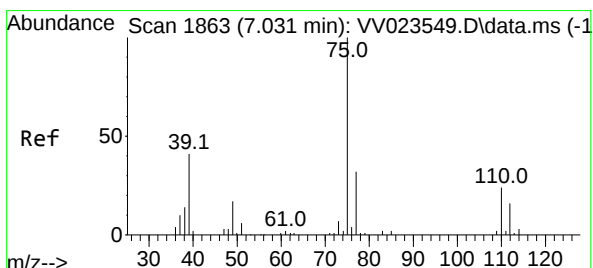
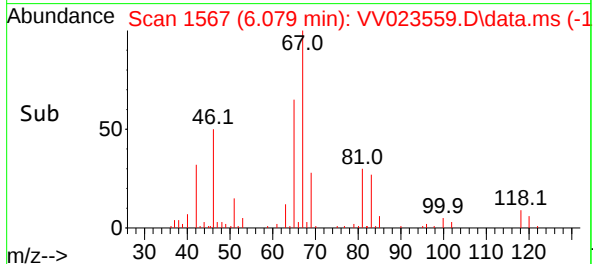
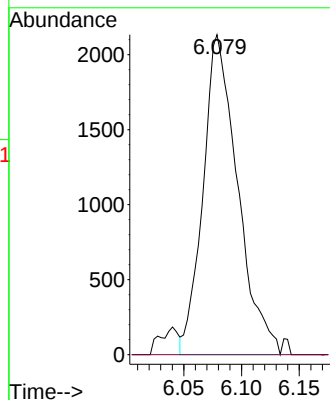
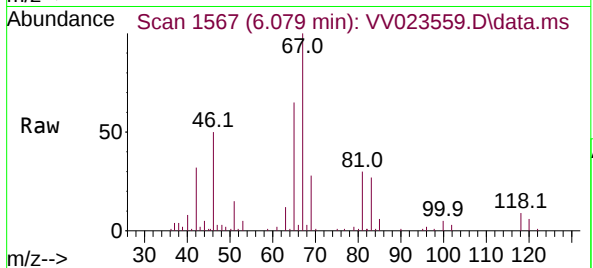
H4667

Tgt Ion: 63 Resp: 4433

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#



#39

cis-1,3-Dichloropropene

Concen: 0.085 ug/L

RT: 6.992 min Scan# 1851

Delta R.T. -0.039 min

Lab File: VV023559.D

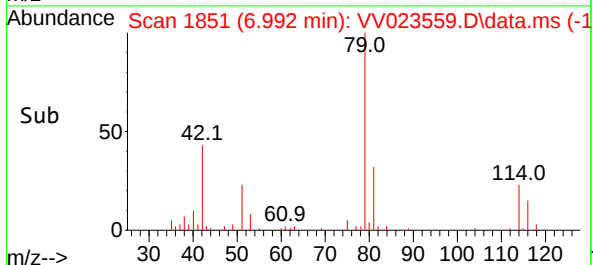
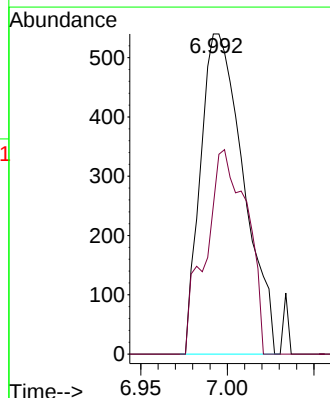
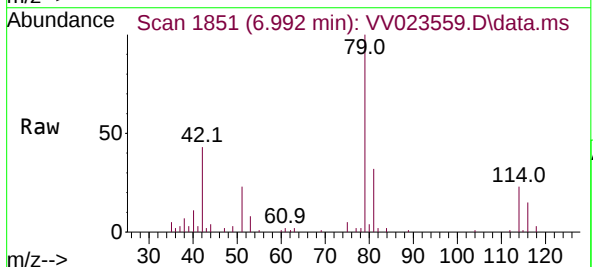
Acq: 17 Nov 2021 01:33

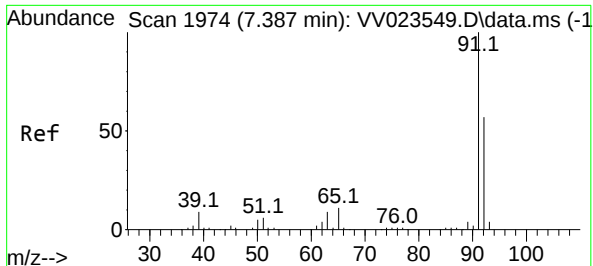
Tgt Ion: 75 Resp: 933

Ion Ratio Lower Upper

75 100

77 46.3 21.6 40.2#

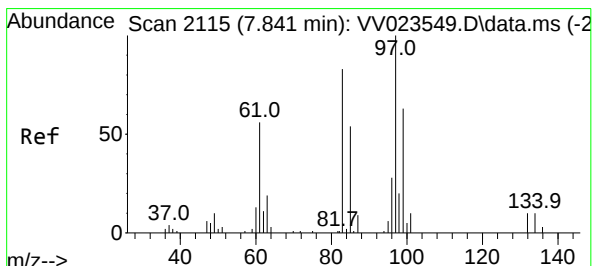
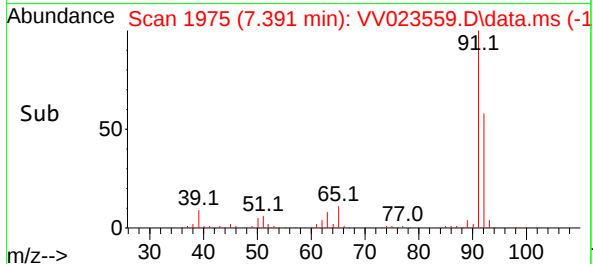
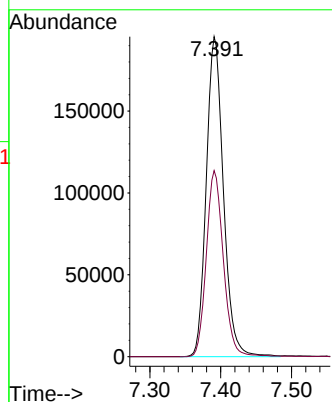
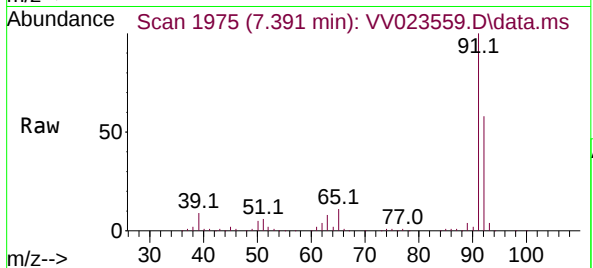




#42
Toluene
Concen: 9.354 ug/L
RT: 7.391 min Scan# 1974
Delta R.T. 0.003 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

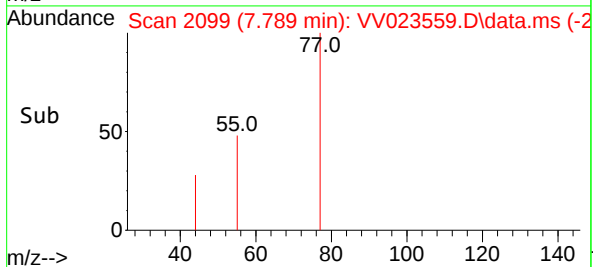
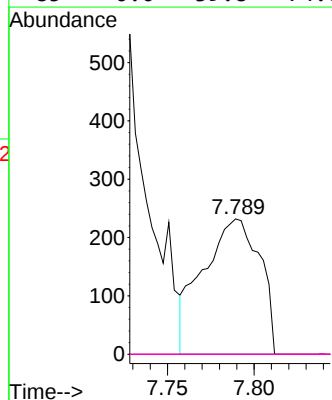
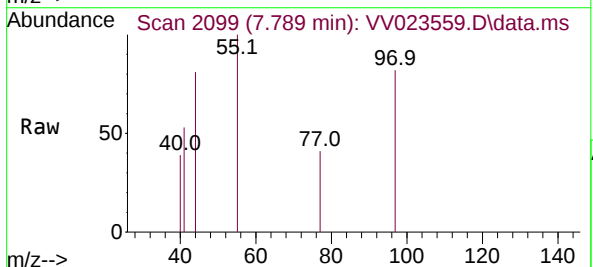
Instrument :
MSVOA_V
ClientSampleId :
H4667

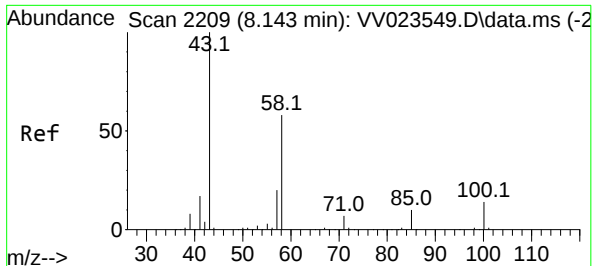
Tgt Ion: 91 Resp: 328500
Ion Ratio Lower Upper
91 100
92 58.1 39.3 72.9



#45
1,1,2-Trichloroethane
Concen: 0.096 ug/L
RT: 7.789 min Scan# 2099
Delta R.T. -0.051 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion: 97 Resp: 530
Ion Ratio Lower Upper
97 100
99 0.0 43.6 81.0#
83 0.0 58.4 108.4#
85 0.0 39.8 74.0#





#48

2-Hexanone

Concen: 2.432 ug/L

RT: 8.162 min Scan# 21

Delta R.T. 0.019 min

Lab File: VV023559.D

Acq: 17 Nov 2021 01:33

Instrument :

MSVOA_V

ClientSampleId :

H4667

Tgt Ion: 43 Resp: 6059

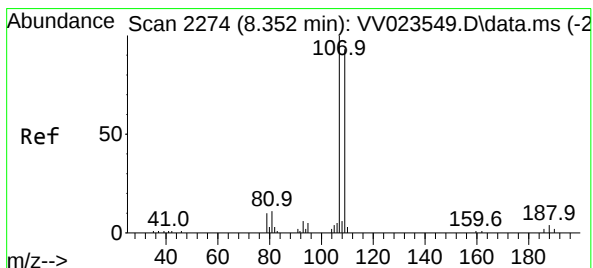
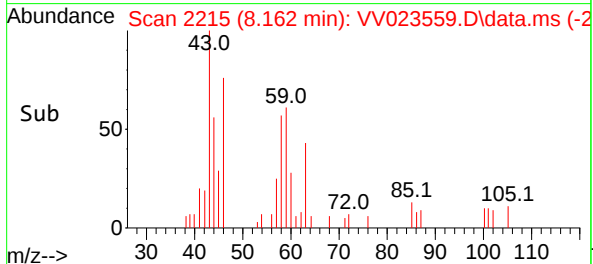
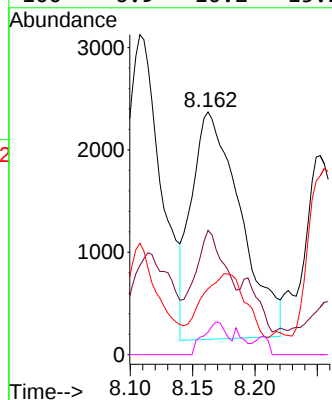
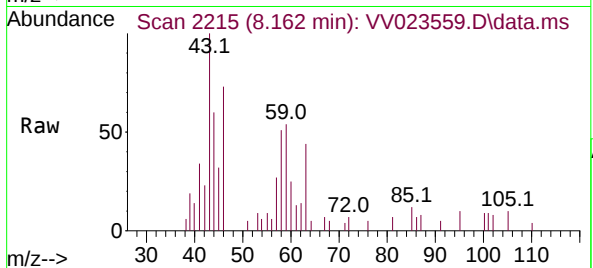
Ion Ratio Lower Upper

43 100

58 34.9 43.7 65.5#

57 27.2 14.1 21.1#

100 6.9 10.2 15.2#



#50

1,2-Dibromoethane

Concen: 0.088 ug/L

RT: 8.522 min Scan# 2327

Delta R.T. 0.170 min

Lab File: VV023559.D

Acq: 17 Nov 2021 01:33

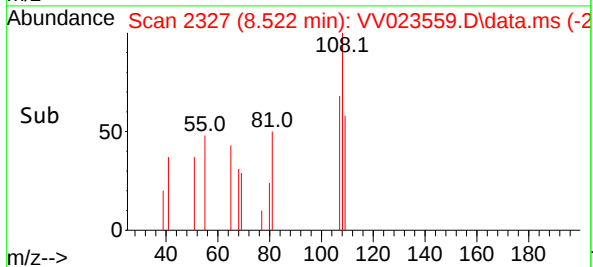
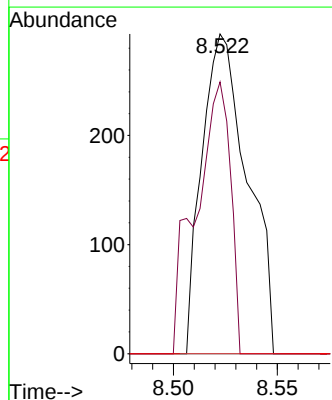
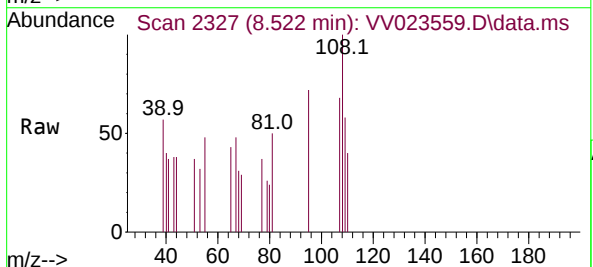
Tgt Ion:107 Resp: 447

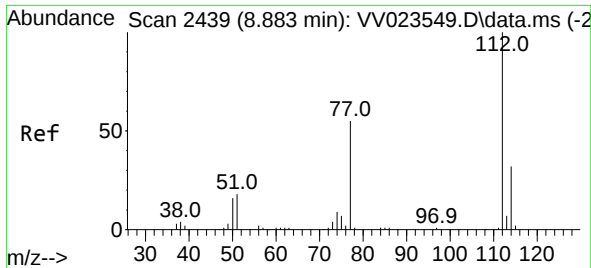
Ion Ratio Lower Upper

107 100

109 85.0 64.7 120.1

188 0.0 3.6 5.4#

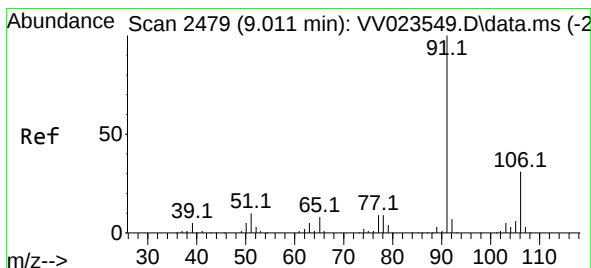
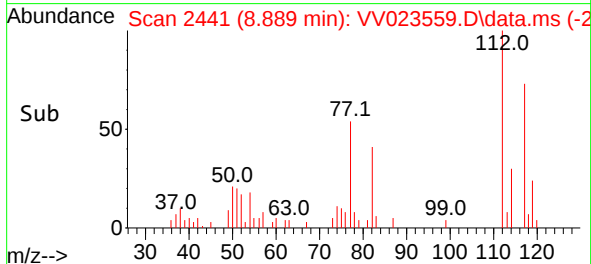
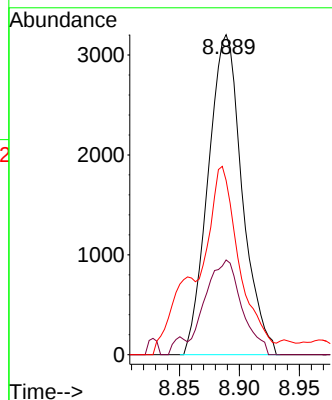
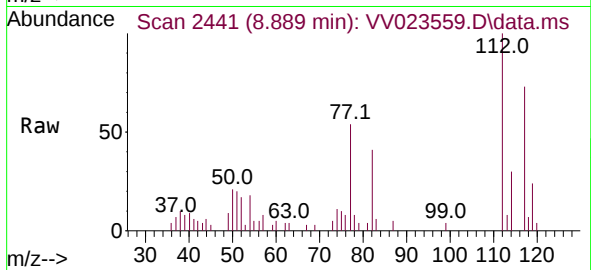




#51
Chlorobenzene
Concen: 0.271 ug/L
RT: 8.889 min Scan# 2439
Delta R.T. 0.006 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

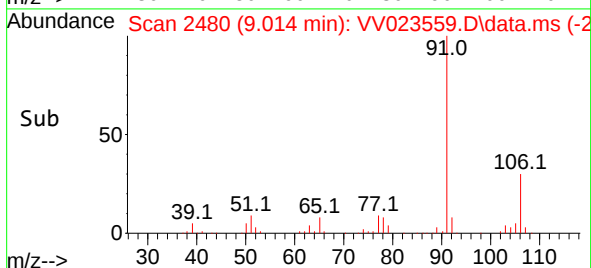
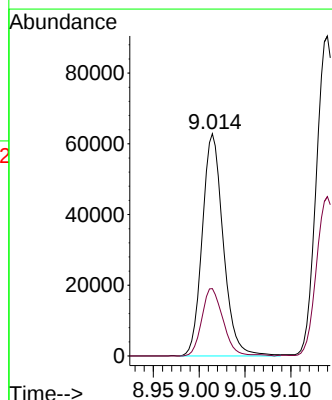
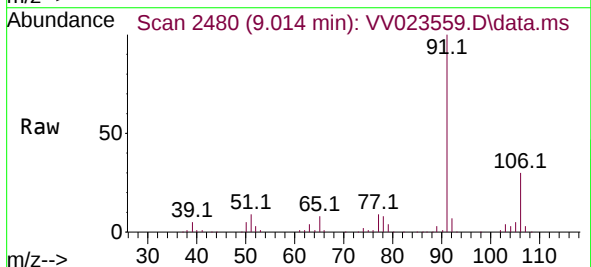
Instrument :
MSVOA_V
ClientSampleId :
H4667

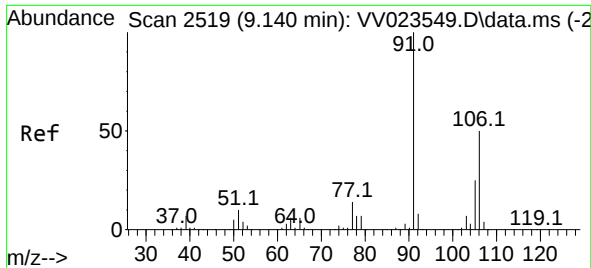
Tgt Ion:112 Resp: 6323
Ion Ratio Lower Upper
112 100
114 29.6 22.0 40.8
77 54.4 44.4 66.6



#52
Ethylbenzene
Concen: 2.704 ug/L
RT: 9.014 min Scan# 2480
Delta R.T. 0.003 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion: 91 Resp: 100140
Ion Ratio Lower Upper
91 100
106 30.3 22.5 41.9

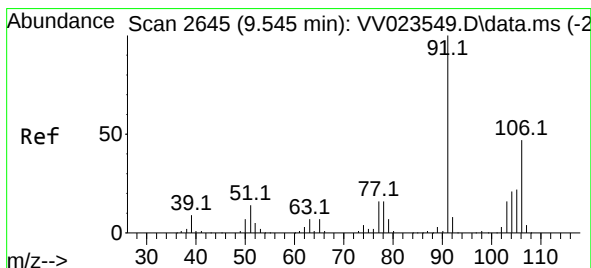
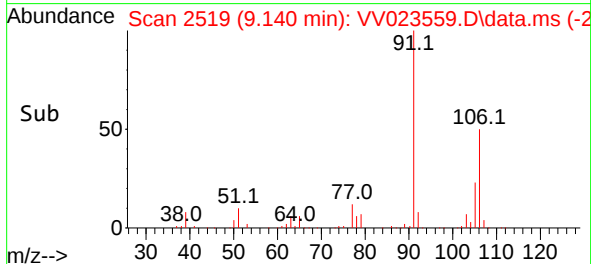
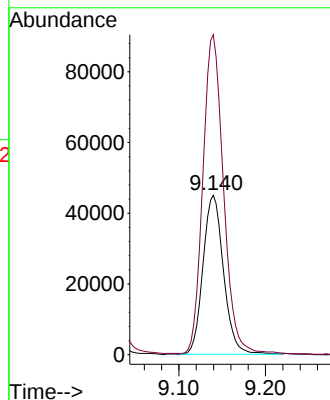
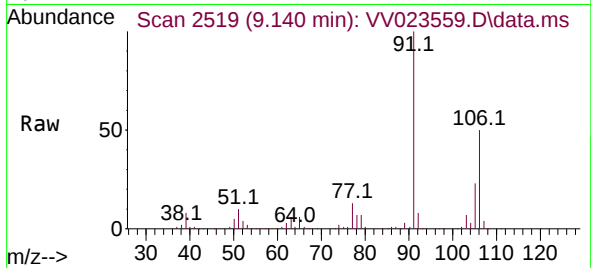




#53
m,p-xylene
Concen: 5.093 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. -0.000 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

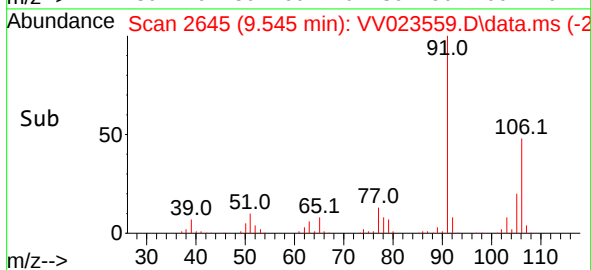
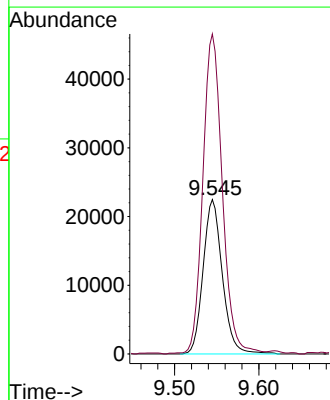
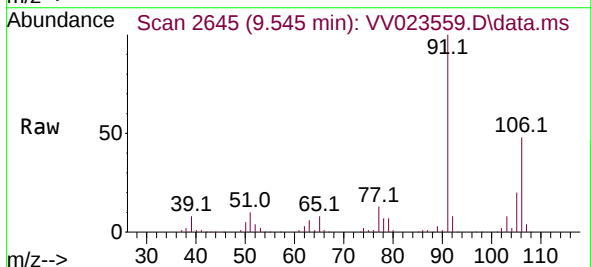
Instrument :
MSVOA_V
ClientSampleId :
H4667

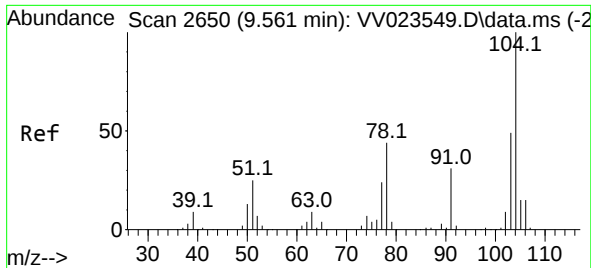
Tgt Ion:106 Resp: 74024
Ion Ratio Lower Upper
106 100
91 200.7 137.2 254.8



#54
o-xylene
Concen: 2.621 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.000 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion:106 Resp: 35736
Ion Ratio Lower Upper
106 100
91 207.3 148.3 275.5





#55

Styrene

Concen: 0.097 ug/L

RT: 9.548 min Scan# 2

Delta R.T. -0.013 min

Lab File: VV023559.D

Acq: 17 Nov 2021 01:33

Instrument :

MSVOA_V

ClientSampleId :

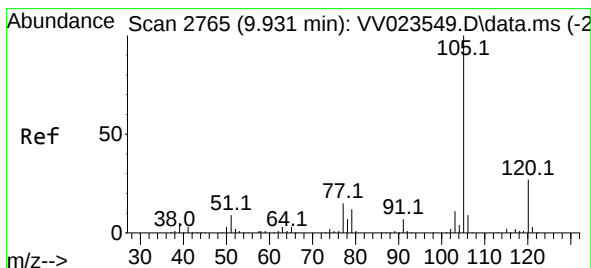
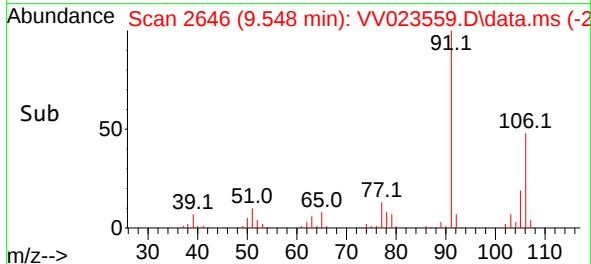
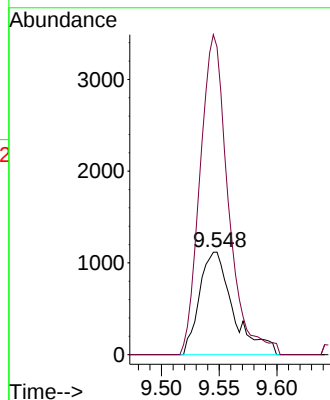
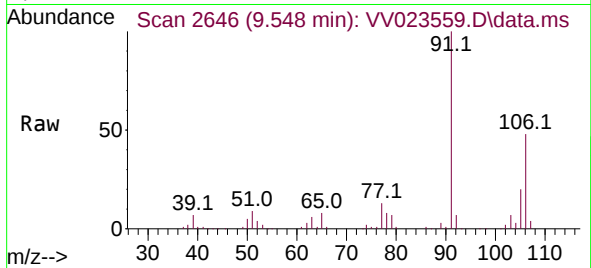
H4667

Tgt Ion:104 Resp: 2272

Ion Ratio Lower Upper

104 100

78 300.2 29.3 54.3#



#60

Isopropylbenzene

Concen: 0.254 ug/L

RT: 9.934 min Scan# 2766

Delta R.T. 0.003 min

Lab File: VV023559.D

Acq: 17 Nov 2021 01:33

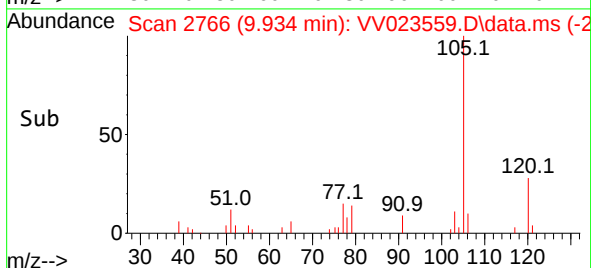
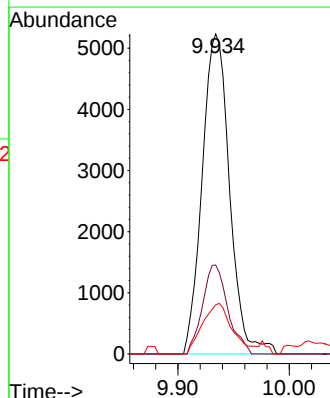
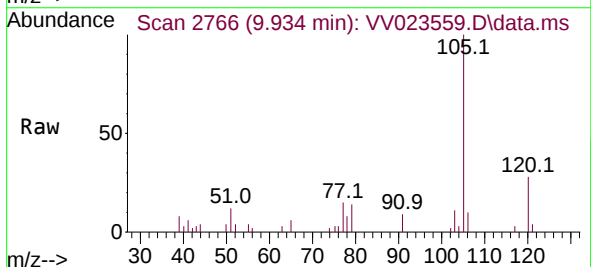
Tgt Ion:105 Resp: 8948

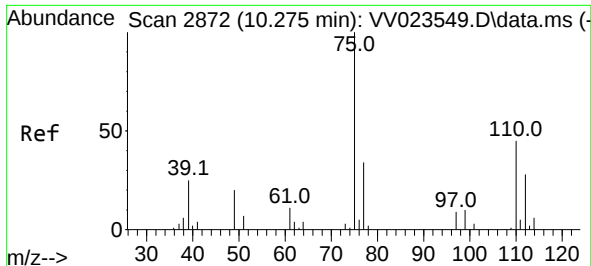
Ion Ratio Lower Upper

105 100

120 25.7 21.7 32.5

77 17.3 12.6 19.0

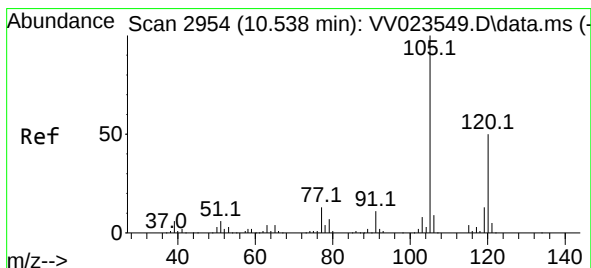
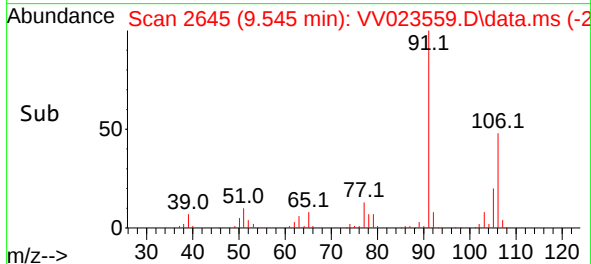
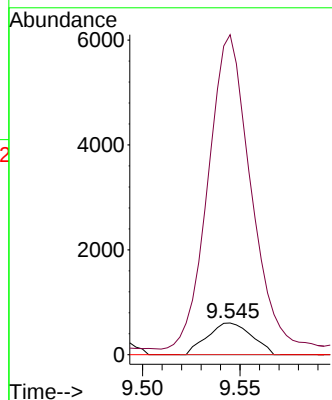
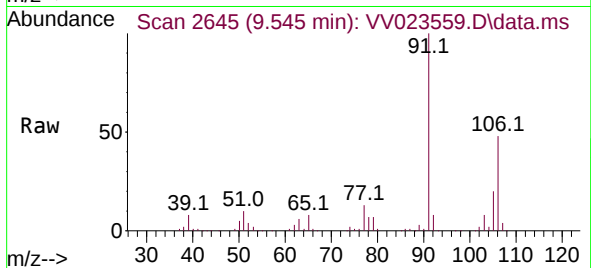




#61
 1,2,3-Trichloropropane
 Concen: 0.235 ug/L
 RT: 9.545 min Scan# 21
 Delta R.T. -0.730 min
 Lab File: VV023559.D
 Acq: 17 Nov 2021 01:33

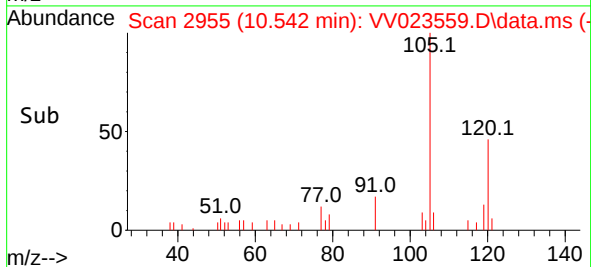
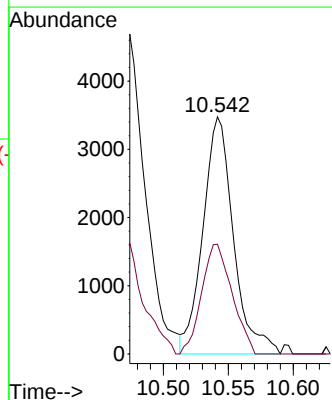
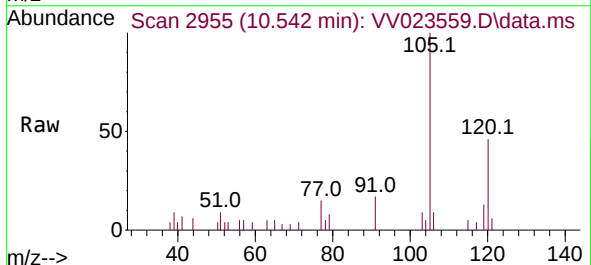
Instrument :
 MSVOA_V
 ClientSampleId :
 H4667

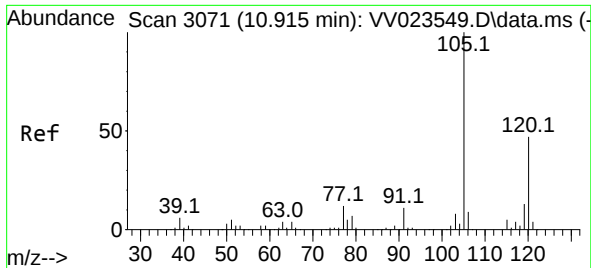
Tgt Ion: 75 Resp: 956
 Ion Ratio Lower Upper
 75 100
 77 952.4 26.6 39.8#
 110 0.0 31.8 47.6#



#62
 1,3,5-Trimethylbenzene
 Concen: 0.194 ug/L
 RT: 10.542 min Scan# 2955
 Delta R.T. 0.003 min
 Lab File: VV023559.D
 Acq: 17 Nov 2021 01:33

Tgt Ion: 105 Resp: 5673
 Ion Ratio Lower Upper
 105 100
 120 46.2 39.7 59.5

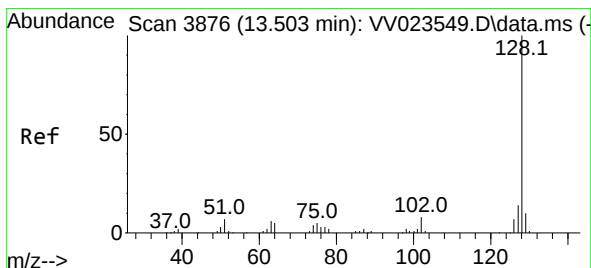
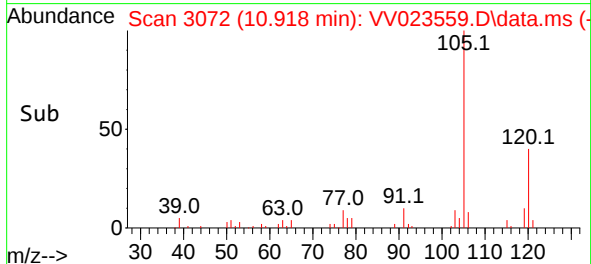
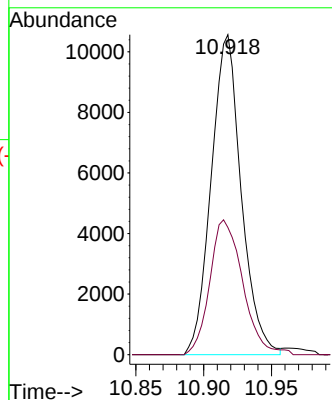
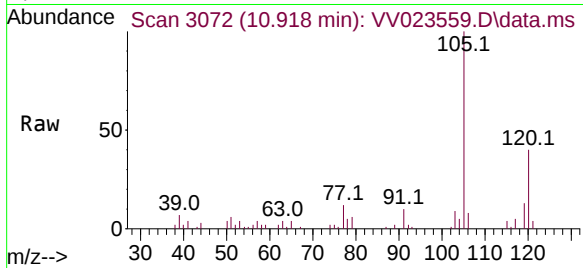




#63
1,2,4-Trimethylbenzene
Concen: 0.560 ug/L
RT: 10.918 min Scan# 3071
Delta R.T. 0.003 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Instrument :
MSVOA_V
ClientSampleId :
H4667

Tgt Ion:105 Resp: 16288
Ion Ratio Lower Upper
105 100
120 46.2 37.4 56.2



#71
Naphthalene
Concen: 0.270 ug/L
RT: 13.506 min Scan# 3877
Delta R.T. 0.003 min
Lab File: VV023559.D
Acq: 17 Nov 2021 01:33

Tgt Ion:128 Resp: 4492
Ion Ratio Lower Upper
128 100
129 15.8 8.6 13.0#
127 12.7 10.5 15.7

