

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121621\
 Data File : VW024021.D
 Acq On : 16 Dec 2021 18:26
 Operator : SY/MD
 Sample : M5113-03
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 17 02:02:19 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121021WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 16 04:44:29 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	95016	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	99512	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	55229	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	23736	4.647	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.000%
7) Chloroethane-d5	1.564	69	19673	4.616	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.400%
11) 1,1-Dichloroethene-d2	2.105	63	35764	3.587	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.800%
20) 2-Butanone-d5	3.899	46	53019	53.128	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.260%
24) Chloroform-d	4.349	84	52535	4.541	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.800%
26) 1,2-Dichloroethane-d4	5.034	65	25365	4.709	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.200%
32) Benzene-d6	5.050	84	98329	4.989	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.800%
36) 1,2-Dichloropropane-d6	6.069	67	29265	4.921	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.400%
41) Toluene-d8	7.317	98	90049	5.075	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.400%
43) trans-1,3-Dichloroprop...	7.625	79	10612	4.302	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.000%
46) 2-Hexanone-d5	8.088	63	42759	38.719	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.440%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	20498	4.155	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	37138	5.034	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.127	85	764	0.092	ug/L	91
5) Vinyl chloride	1.307	62	838	0.109	ug/L #	41
12) 1,1-Dichloroethene	2.105	96	431	0.068	ug/L #	1
13) Acetone	2.185	43	11483	14.383	ug/L	86
15) Methyl Acetate	2.185	43	9399	4.857	ug/L #	50
22) cis-1,2-Dichloroethene	3.908	96	2132	0.285	ug/L	80
27) 1,2-Dichloroethane	5.104	62	674	0.088	ug/L #	73
33) Benzene	5.101	78	73236	2.601	ug/L	100
35) Methylcyclohexane	6.072	83	7638	0.654	ug/L #	21
37) 1,2-Dichloropropane	6.072	63	3406	0.509	ug/L #	84
42) Toluene	7.390	91	3634	0.115	ug/L	98
45) 1,1,2-Trichloroethane	7.786	97	1045	0.211	ug/L #	16
48) 2-Hexanone	8.149	43	2150	0.923	ug/L #	45
51) Chlorobenzene	8.882	112	54566	2.577	ug/L	96
52) Ethylbenzene	9.021	91	3806	0.114	ug/L	95
53) m,p-xylene	9.143	106	3786	0.286	ug/L	87
54) o-xylene	9.548	106	3099	0.242	ug/L	92
60) Isopropylbenzene	9.934	105	16829	0.519	ug/L	97
62) 1,3,5-Trimethylbenzene	10.541	105	1701	0.063	ug/L	94

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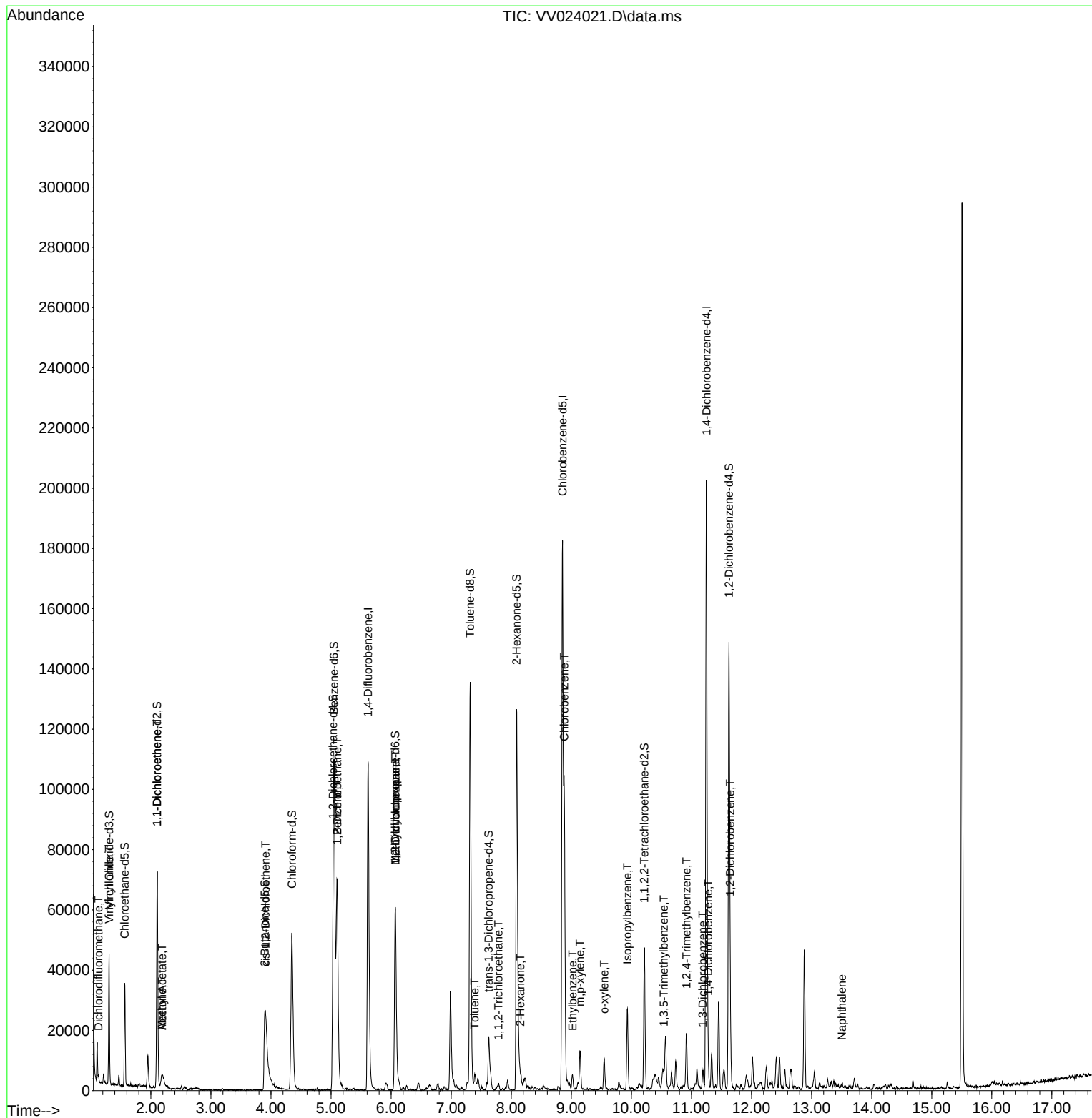
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	10.918	105	10160	0.379	ug/L	95
64) 1,3-Dichlorobenzene	11.188	146	1342	0.081	ug/L	90
65) 1,4-Dichlorobenzene	11.278	146	3072	0.184	ug/L	88
67) 1,2-Dichlorobenzene	11.644	146	8925	0.587	ug/L	97
71) Naphthalene	13.506	128	1483	0.096	ug/L #	76

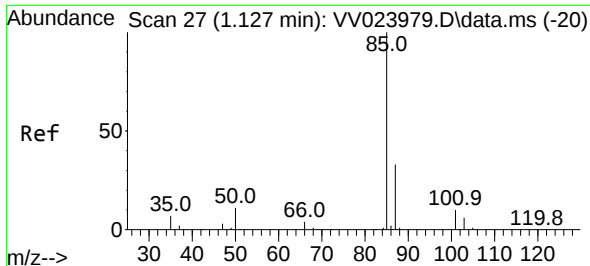
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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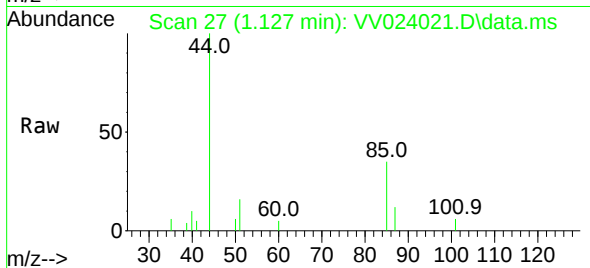
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121021WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Dec 16 04:44:29 2021
Response via : Initial Calibration



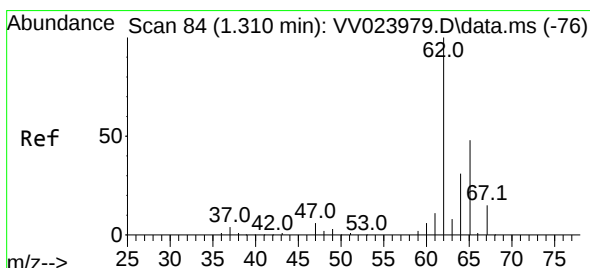
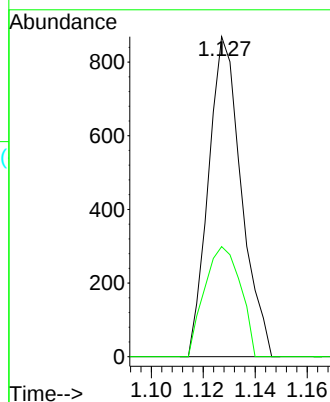
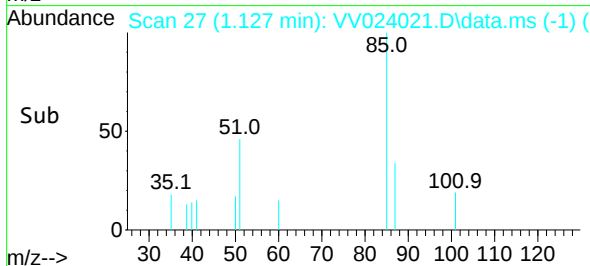


#2
 Dichlorodifluoromethane
 Concen: 0.092 ug/L
 RT: 1.127 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VV024021.D
 Acq: 16 Dec 2021 18:26

Instrument :
 MSVOA_V
 ClientSampleId :

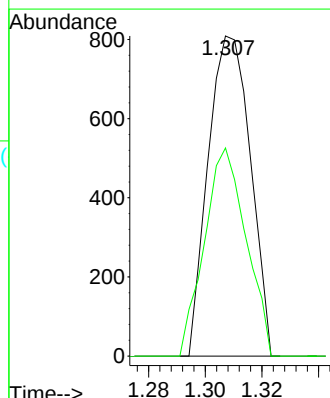
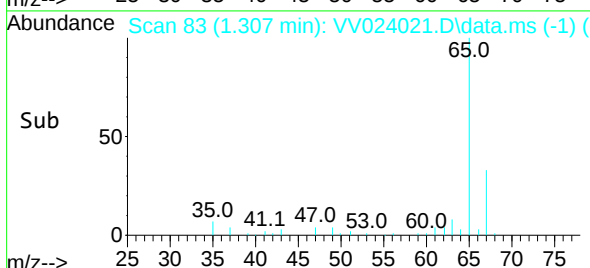
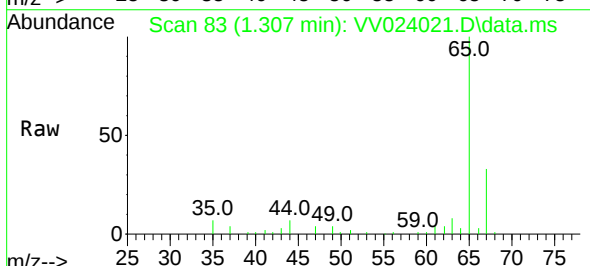


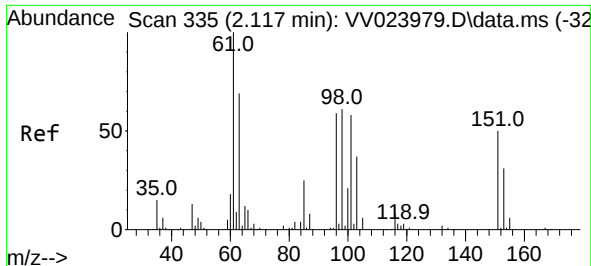
Tgt Ion: 85 Resp: 764
 Ion Ratio Lower Upper
 85 100
 87 37.7 26.0 39.0



#5
 Vinyl chloride
 Concen: 0.109 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. -0.003 min
 Lab File: VV024021.D
 Acq: 16 Dec 2021 18:26

Tgt Ion: 62 Resp: 838
 Ion Ratio Lower Upper
 62 100
 64 65.0 22.4 41.6#





#12

1,1-Dichloroethene

Concen: 0.068 ug/L

RT: 2.105 min Scan# 31

Delta R.T. -0.013 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Instrument :

MSVOA_V

ClientSampleId :

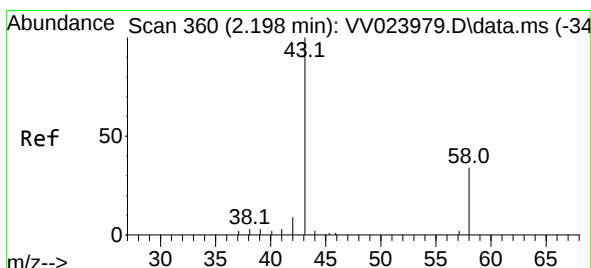
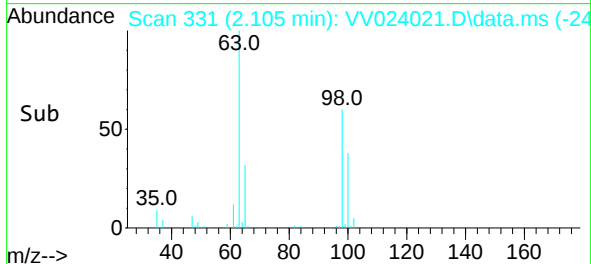
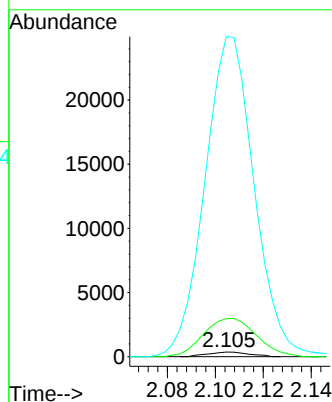
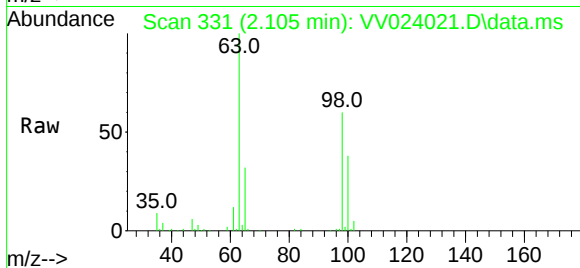
Tgt Ion: 96 Resp: 431

Ion Ratio Lower Upper

96 100

61 821.8 116.1 215.5#

63 6890.6 79.4 147.4#



#13

Acetone

Concen: 14.383 ug/L

RT: 2.185 min Scan# 356

Delta R.T. -0.013 min

Lab File: VV024021.D

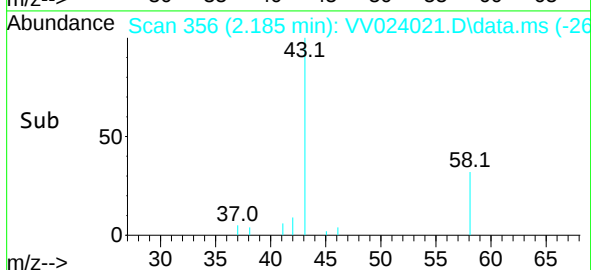
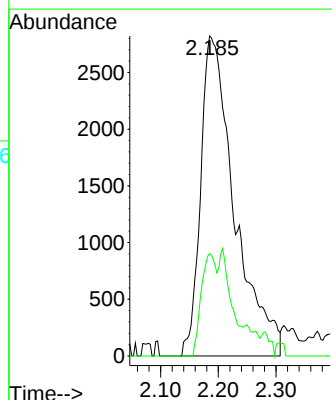
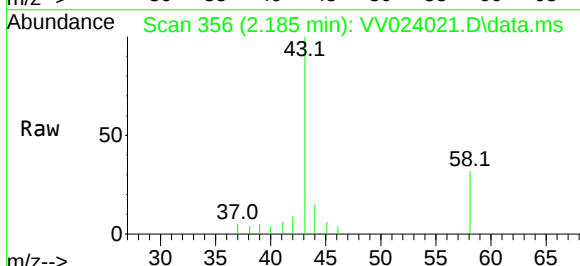
Acq: 16 Dec 2021 18:26

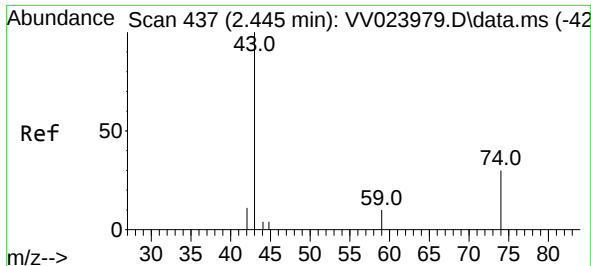
Tgt Ion: 43 Resp: 11483

Ion Ratio Lower Upper

43 100

58 14.1 0.0 41.4

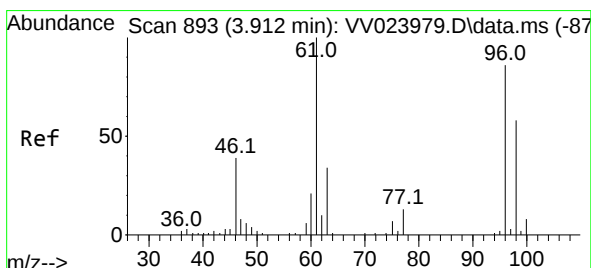
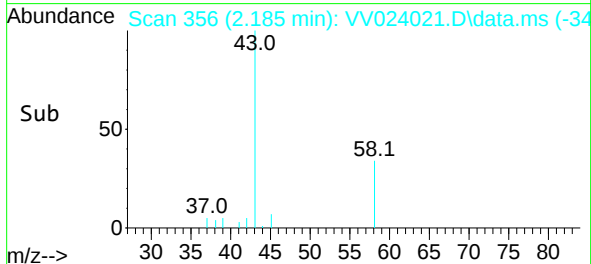
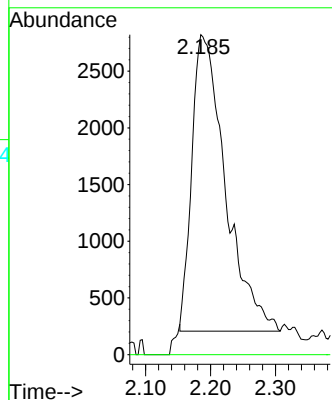
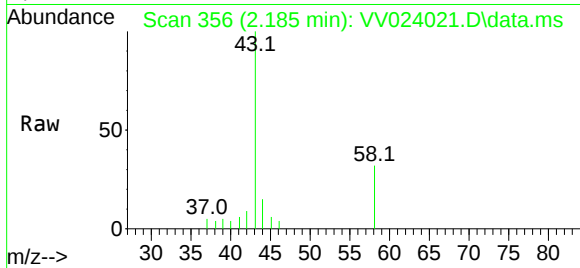




#15
Methyl Acetate
Concen: 4.857 ug/L
RT: 2.185 min Scan# 31
Delta R.T. -0.261 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

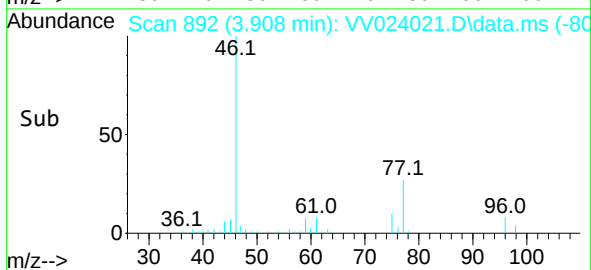
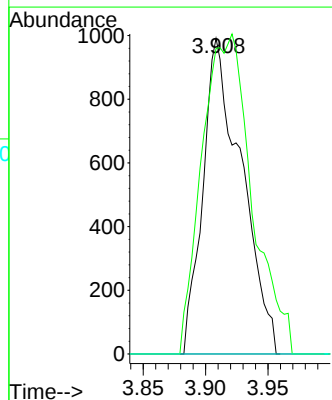
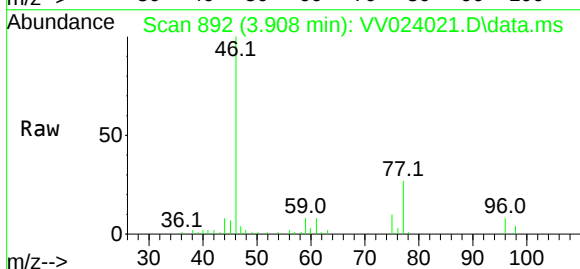
Instrument :
MSVOA_V
ClientSampleId :

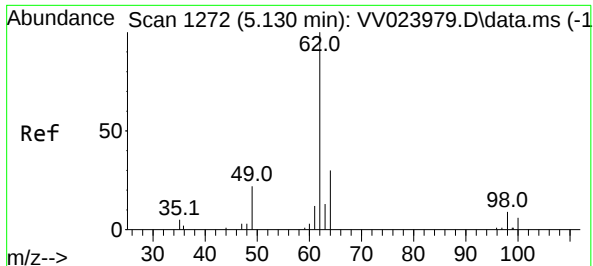
Tgt Ion: 43 Resp: 9399
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#22
cis-1,2-Dichloroethene
Concen: 0.285 ug/L
RT: 3.908 min Scan# 892
Delta R.T. -0.003 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

Tgt Ion: 96 Resp: 2132
Ion Ratio Lower Upper
96 100
61 96.9 83.4 154.8
68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 0.088 ug/L

RT: 5.104 min Scan# 11

Delta R.T. -0.026 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Instrument :

MSVOA_V

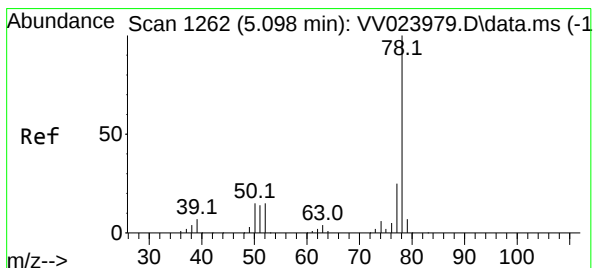
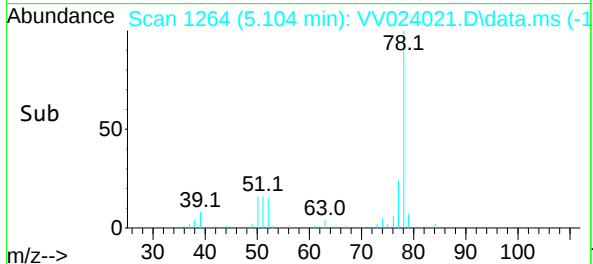
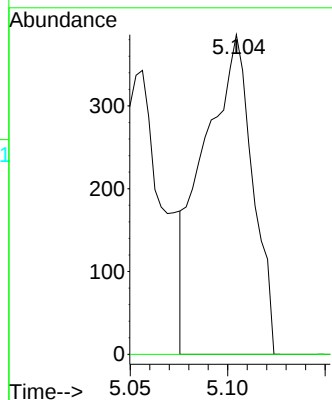
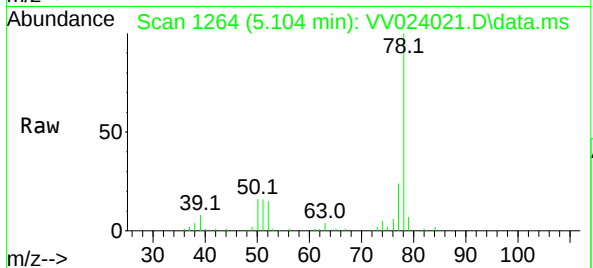
ClientSampleId :

Tgt Ion: 62 Resp: 674

Ion Ratio Lower Upper

62 100

98 0.0 8.1 12.1#



#33

Benzene

Concen: 2.601 ug/L

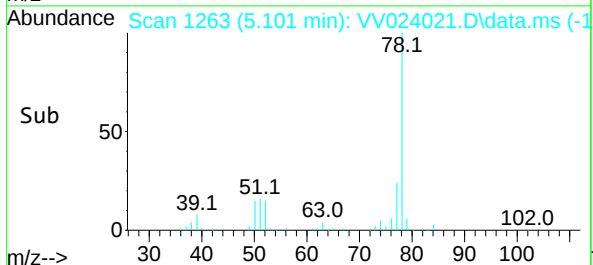
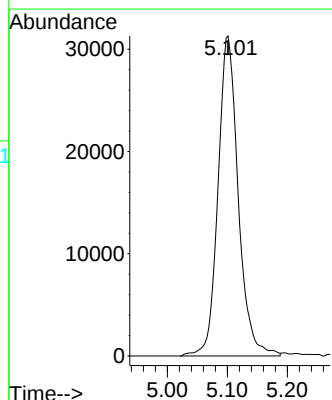
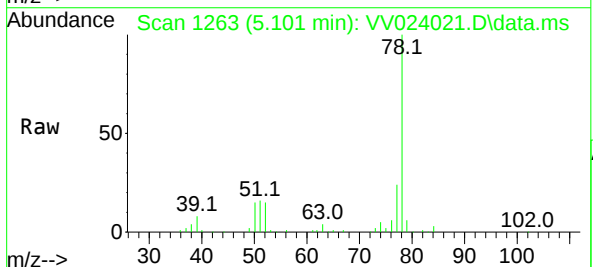
RT: 5.101 min Scan# 1263

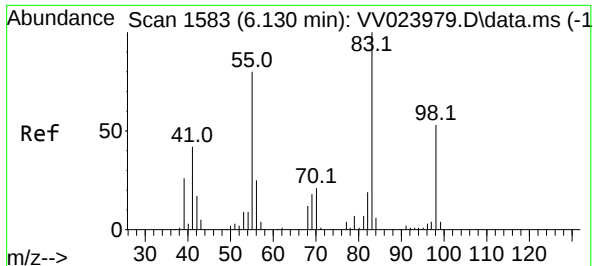
Delta R.T. 0.003 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Tgt Ion: 78 Resp: 73236

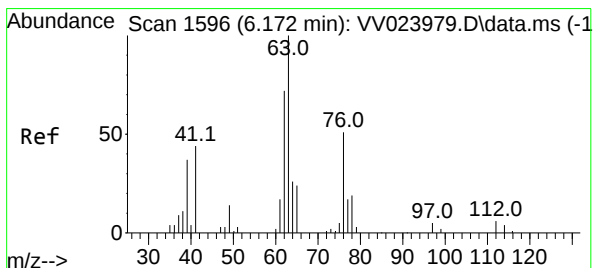
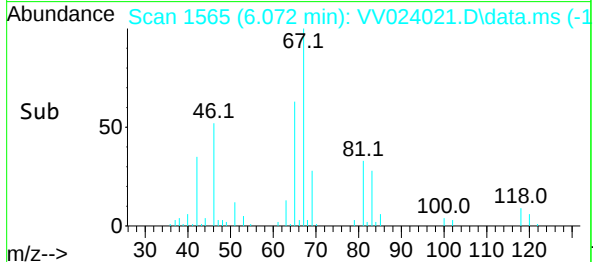
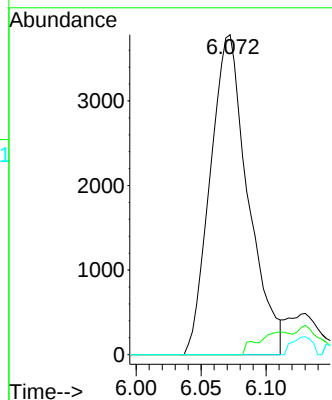
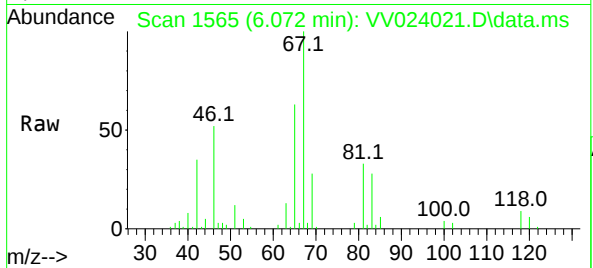




#35
Methylcyclohexane
Concen: 0.654 ug/L
RT: 6.072 min Scan# 1565
Delta R.T. -0.058 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

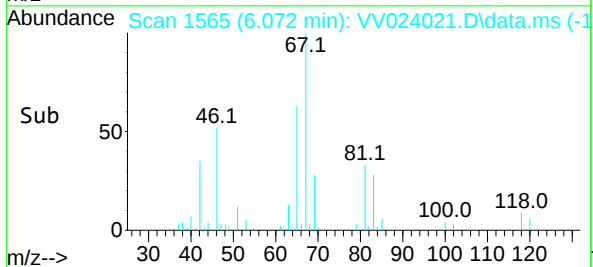
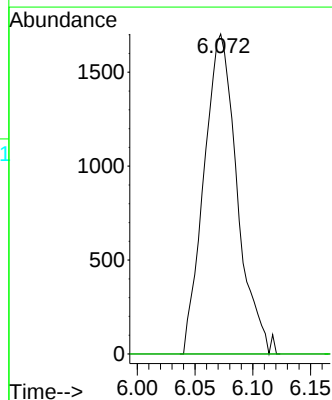
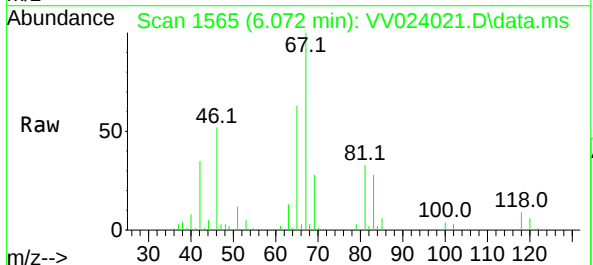
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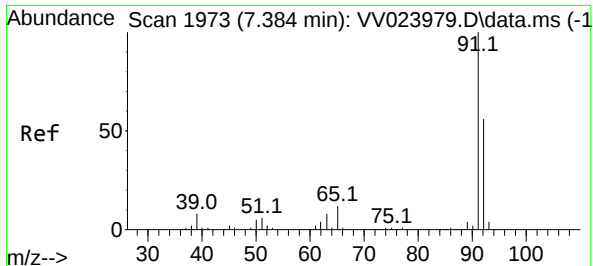
Tgt Ion: 83 Resp: 7638
Ion Ratio Lower Upper
83 100
55 1.1 60.2 90.2#
98 3.9 41.0 61.4#



#37
1,2-Dichloropropane
Concen: 0.509 ug/L
RT: 6.072 min Scan# 1565
Delta R.T. -0.100 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

Tgt Ion: 63 Resp: 3406
Ion Ratio Lower Upper
63 100
112 0.0 4.3 6.5#





#42

Toluene

Concen: 0.115 ug/L

RT: 7.390 min Scan# 1973

Delta R.T. 0.006 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Instrument :

MSVOA_V

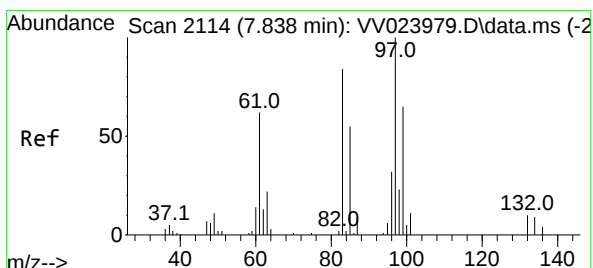
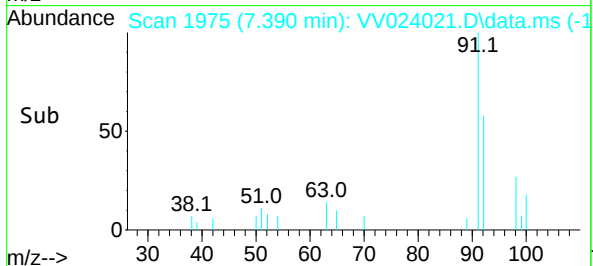
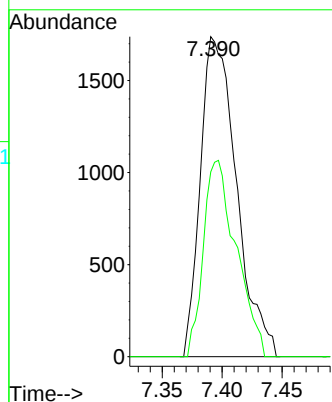
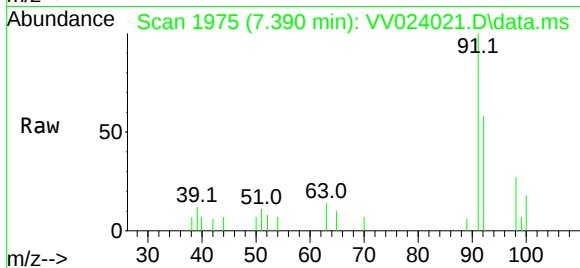
ClientSampleId :

Tgt Ion: 91 Resp: 3634

Ion Ratio Lower Upper

91 100

92 57.8 41.5 77.1



#45

1,1,2-Trichloroethane

Concen: 0.211 ug/L

RT: 7.786 min Scan# 2098

Delta R.T. -0.052 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Tgt Ion: 97 Resp: 1045

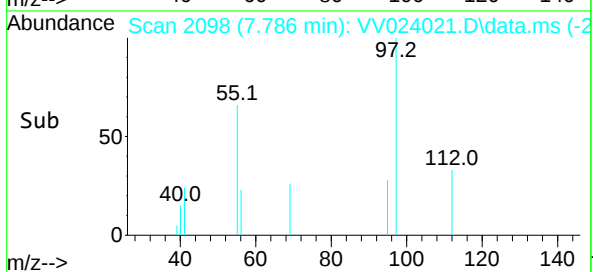
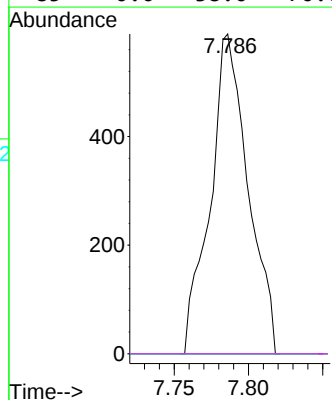
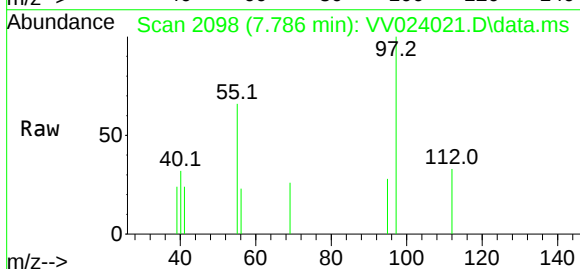
Ion Ratio Lower Upper

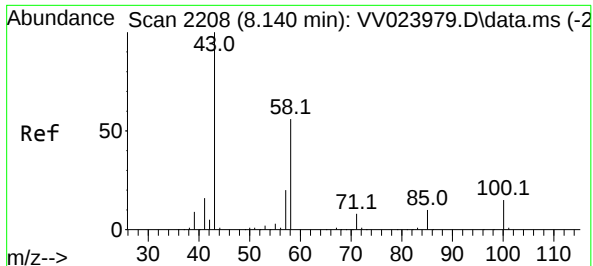
97 100

99 0.0 43.1 80.1#

83 0.0 57.9 107.5#

85 0.0 38.0 70.6#





#48

2-Hexanone

Concen: 0.923 ug/L

RT: 8.149 min Scan# 21

Delta R.T. 0.010 min

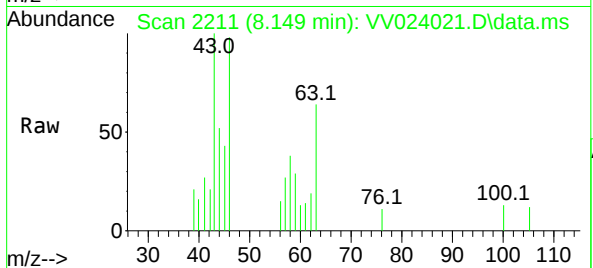
Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 43 Resp: 2150

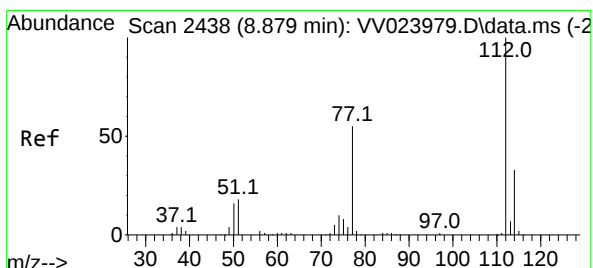
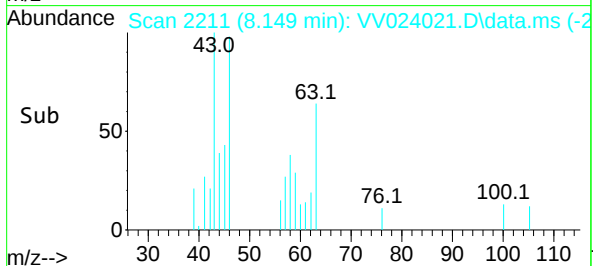
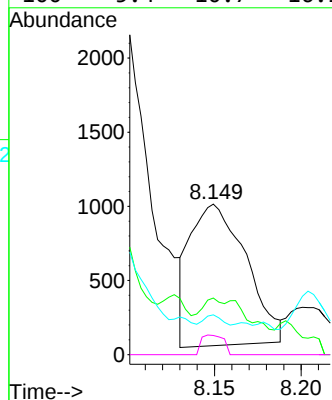
Ion Ratio Lower Upper

43 100

58 4.1 44.5 66.7#

57 3.1 15.1 22.7#

100 5.4 10.7 16.1#



#51

Chlorobenzene

Concen: 2.577 ug/L

RT: 8.882 min Scan# 2439

Delta R.T. 0.003 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

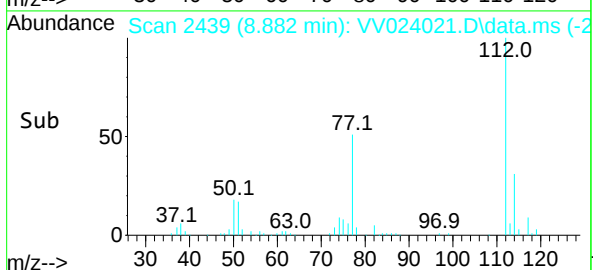
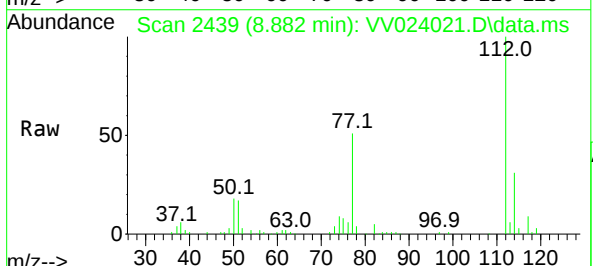
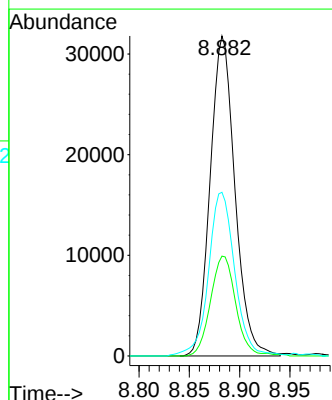
Tgt Ion: 112 Resp: 54566

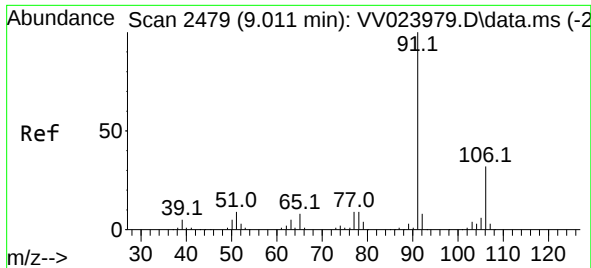
Ion Ratio Lower Upper

112 100

114 31.2 23.3 43.3

77 51.2 43.3 64.9





#52

Ethylbenzene

Concen: 0.114 ug/L

RT: 9.021 min Scan# 24

Delta R.T. 0.010 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Instrument :

MSVOA_V

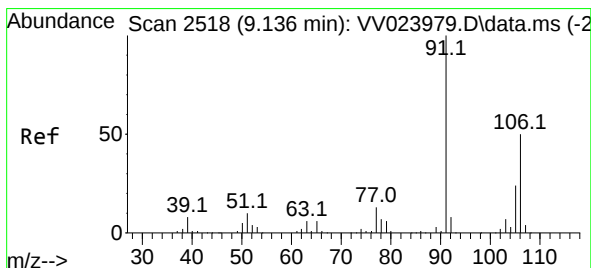
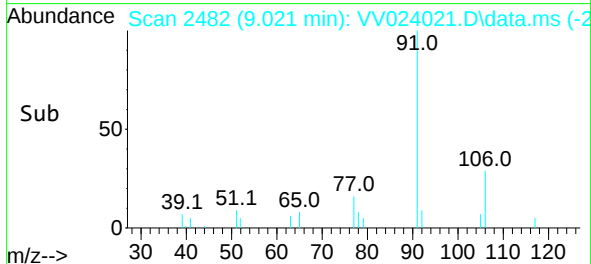
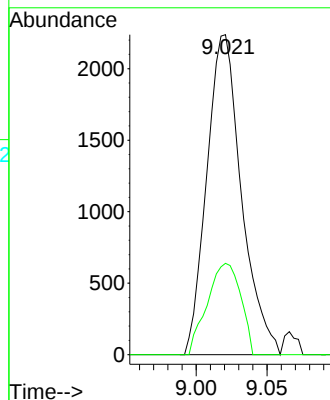
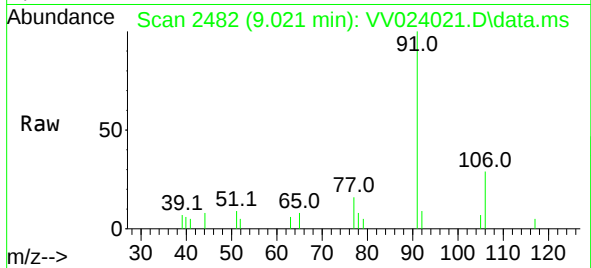
ClientSampleId :

Tgt Ion: 91 Resp: 3806

Ion Ratio Lower Upper

91 100

106 28.6 22.0 41.0



#53

m,p-xylene

Concen: 0.286 ug/L

RT: 9.143 min Scan# 2520

Delta R.T. 0.006 min

Lab File: VV024021.D

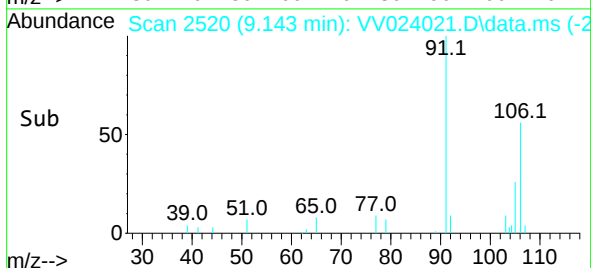
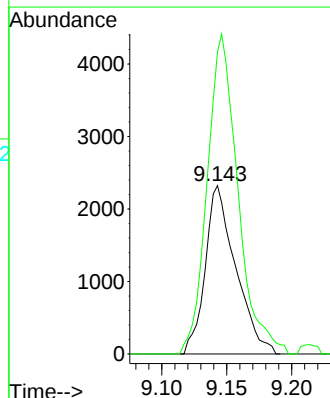
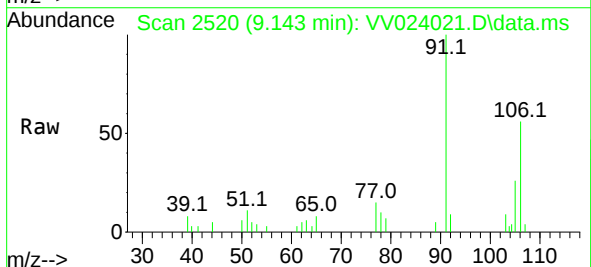
Acq: 16 Dec 2021 18:26

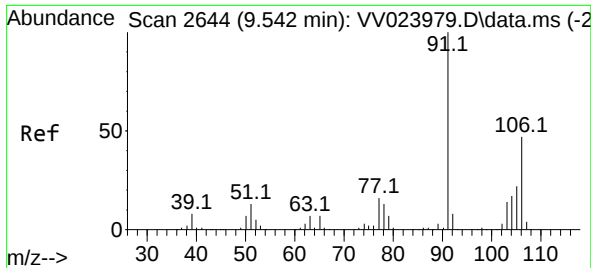
Tgt Ion:106 Resp: 3786

Ion Ratio Lower Upper

106 100

91 179.2 139.5 259.1

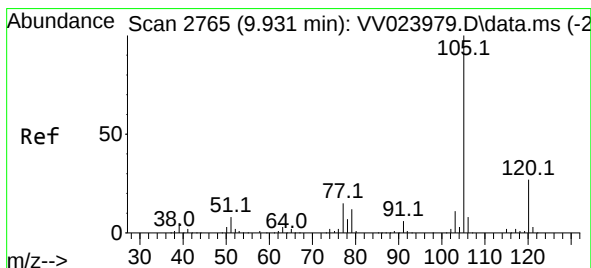
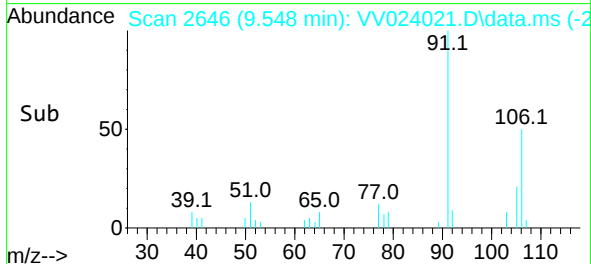
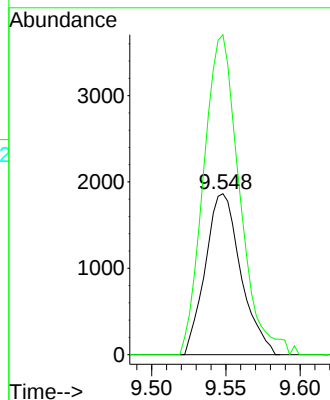
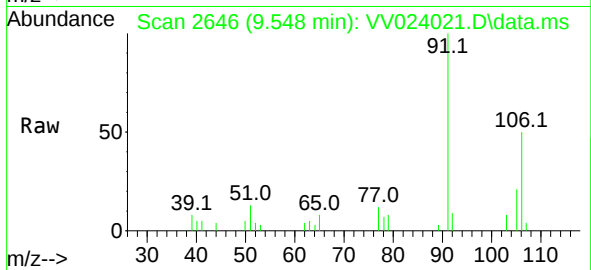




#54
o-xylene
Concen: 0.242 ug/L
RT: 9.548 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

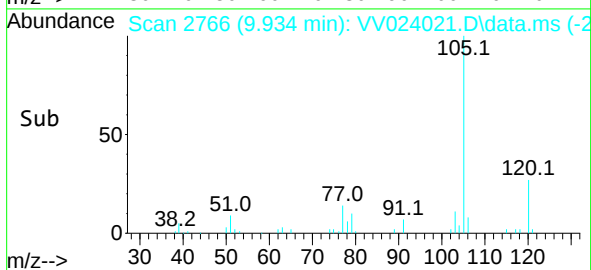
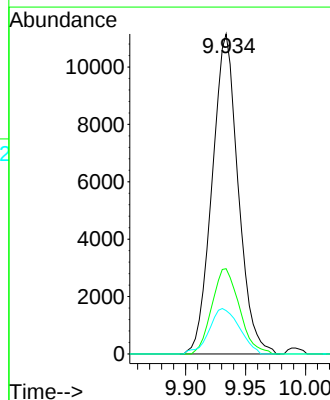
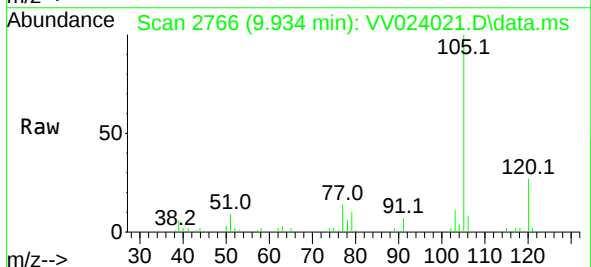
Instrument :
MSVOA_V
ClientSampleId :

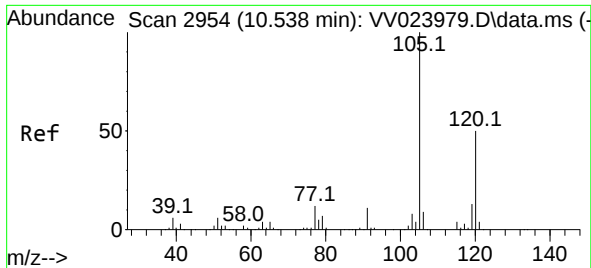
Tgt Ion:106 Resp: 3099
Ion Ratio Lower Upper
106 100
91 198.9 147.9 274.7



#60
Isopropylbenzene
Concen: 0.519 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. 0.003 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

Tgt Ion:105 Resp: 16829
Ion Ratio Lower Upper
105 100
120 28.2 21.4 32.0
77 16.4 12.2 18.4

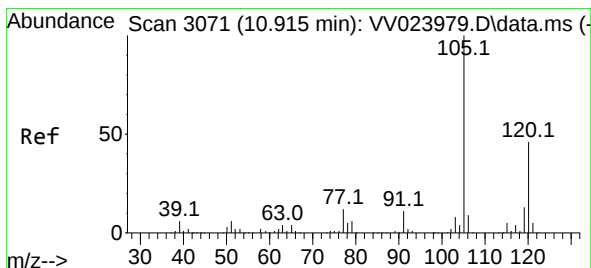
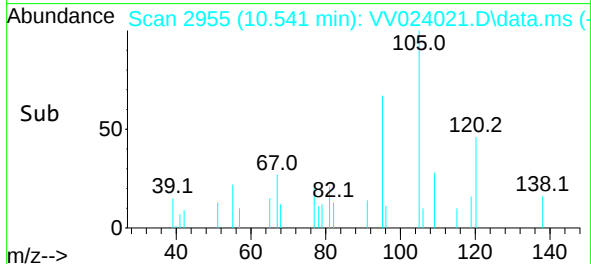
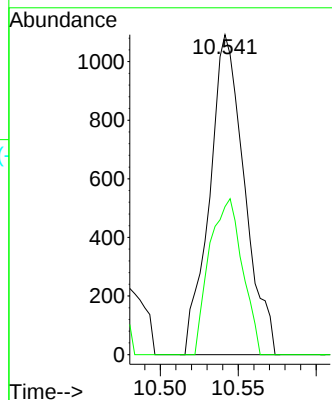
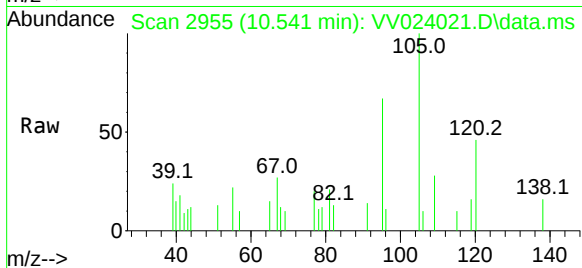




#62
1,3,5-Trimethylbenzene
Concen: 0.063 ug/L
RT: 10.541 min Scan# 2955
Delta R.T. 0.003 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

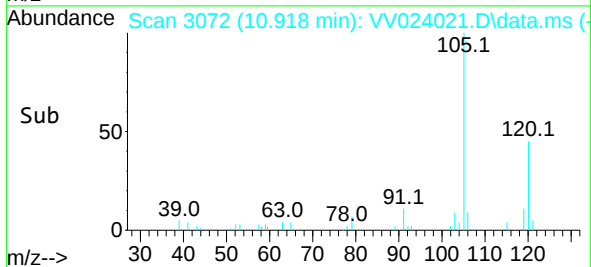
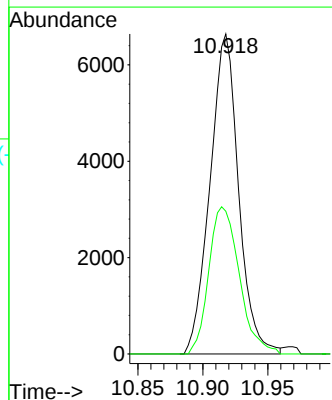
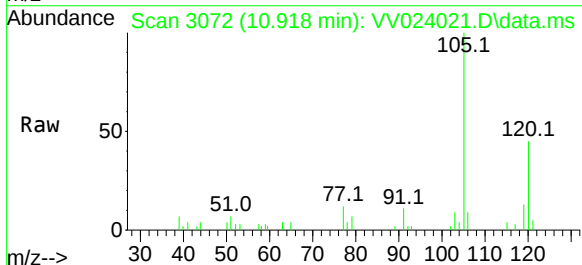
Instrument :
MSVOA_V
ClientSampleId :

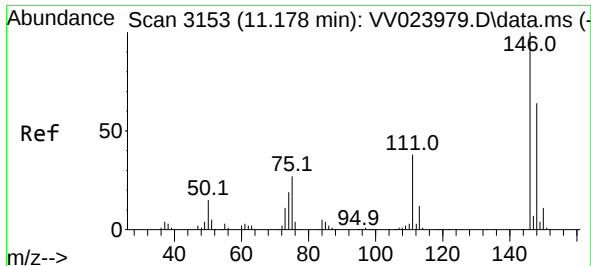
Tgt Ion:105 Resp: 1701
Ion Ratio Lower Upper
105 100
120 45.9 40.1 60.1



#63
1,2,4-Trimethylbenzene
Concen: 0.379 ug/L
RT: 10.918 min Scan# 3072
Delta R.T. 0.003 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

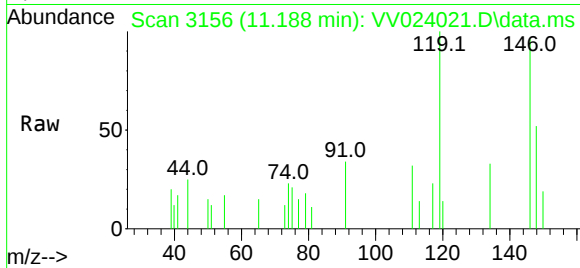
Tgt Ion:105 Resp: 10160
Ion Ratio Lower Upper
105 100
120 49.1 36.7 55.1



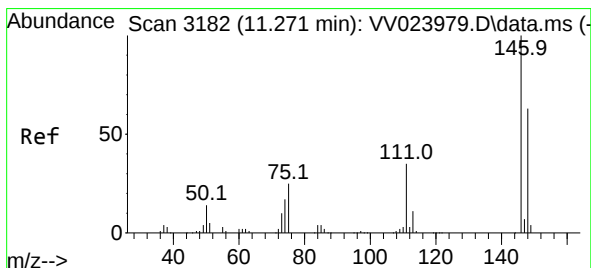
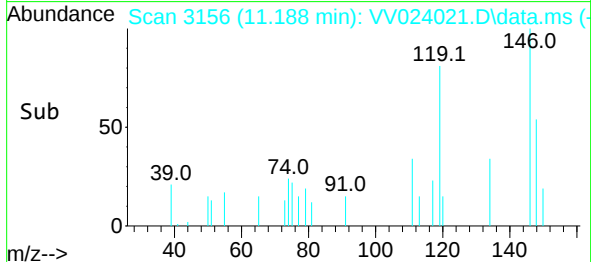
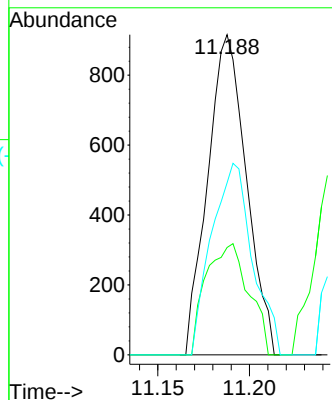


#64
1,3-Dichlorobenzene
Concen: 0.081 ug/L
RT: 11.188 min Scan# 3153
Delta R.T. 0.010 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

Instrument :
MSVOA_V
ClientSampleId :

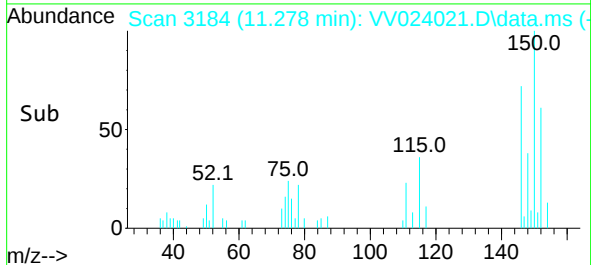
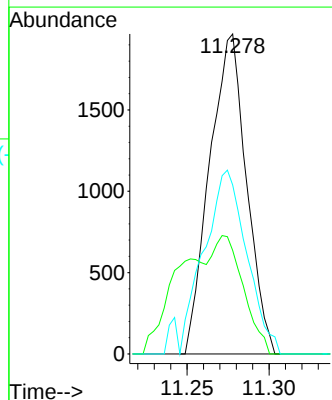
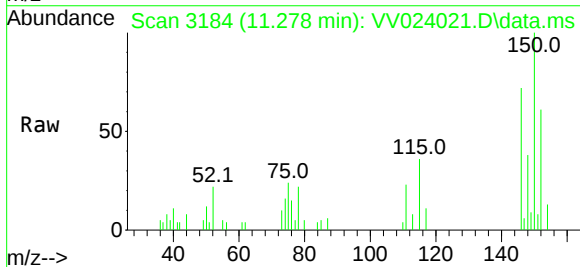


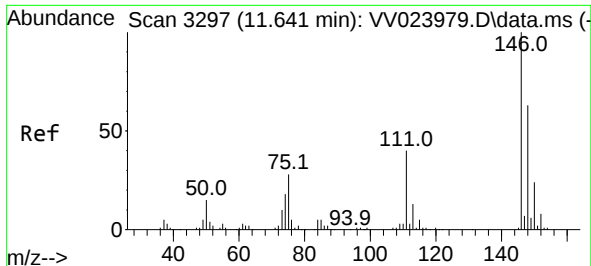
Tgt Ion:146 Resp: 1342
Ion Ratio Lower Upper
146 100
111 33.5 26.3 48.9
148 53.7 44.4 82.5



#65
1,4-Dichlorobenzene
Concen: 0.184 ug/L
RT: 11.278 min Scan# 3184
Delta R.T. 0.006 min
Lab File: VV024021.D
Acq: 16 Dec 2021 18:26

Tgt Ion:146 Resp: 3072
Ion Ratio Lower Upper
146 100
111 32.3 25.6 47.6
148 52.8 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 0.587 ug/L

RT: 11.644 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Instrument :

MSVOA_V

ClientSampleId :

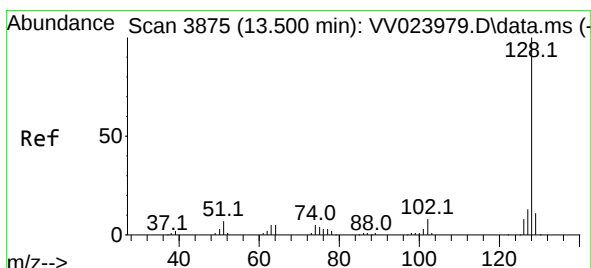
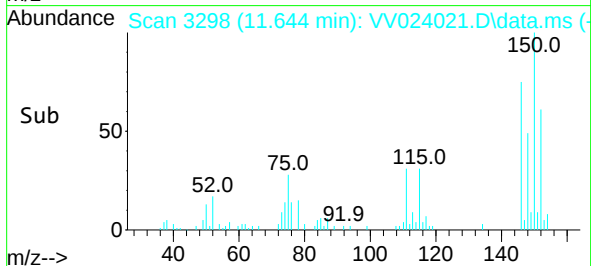
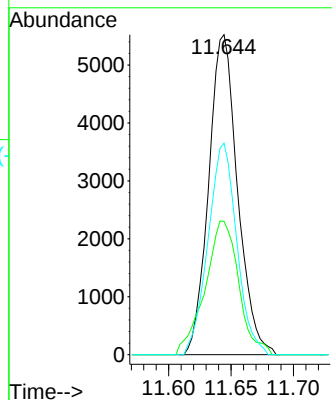
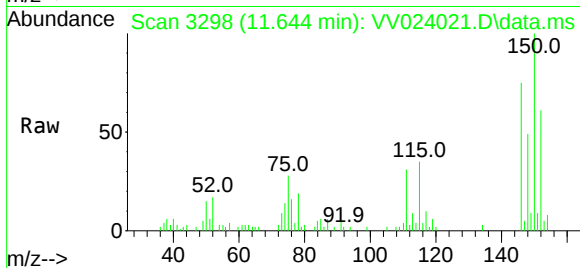
Tgt Ion:146 Resp: 8925

Ion Ratio Lower Upper

146 100

111 41.7 31.9 47.9

148 66.1 50.5 75.7



#71

Naphthalene

Concen: 0.096 ug/L

RT: 13.506 min Scan# 3877

Delta R.T. 0.006 min

Lab File: VV024021.D

Acq: 16 Dec 2021 18:26

Tgt Ion:128 Resp: 1483

Ion Ratio Lower Upper

128 100

129 0.0 9.0 13.4#

127 5.1 10.2 15.4#

