

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023636.D
 Acq On : 19 Nov 2021 12:18
 Operator : SY/MD
 Sample : M4706-09
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:46:08 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Nov 22 01:44:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	111230	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	111194	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	49508	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	31601	4.535	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.800%
7) Chloroethane-d5	1.568	69	26919	4.740	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.800%
11) 1,1-Dichloroethene-d2	2.108	63	44817	3.436	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.800%
20) 2-Butanone-d5	3.905	46	40789	33.977	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	67.960%
24) Chloroform-d	4.349	84	66963	4.509	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.200%
26) 1,2-Dichloroethane-d4	5.034	65	31293	4.686	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.800%
32) Benzene-d6	5.050	84	121950	4.274	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.400%
36) 1,2-Dichloropropane-d6	6.069	67	36611	4.359	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.200%
41) Toluene-d8	7.317	98	104689	3.916	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.400%
43) trans-1,3-Dichloroprop...	7.625	79	13588	4.267	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.400%
46) 2-Hexanone-d5	8.092	63	44986	38.394	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	76.780%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	25413	4.208	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	41397	5.022	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	3426	0.372	ug/L	98
5) Vinyl chloride	1.311	62	129	0.014	ug/L #	1
8) Chloroethane	1.574	64	124	0.023	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	419	0.060	ug/L #	18
12) 1,1-Dichloroethene	2.108	96	381	0.057	ug/L #	1
13) Acetone	2.182	43	771	1.051	ug/L #	47
14) Carbon disulfide	2.301	76	212	0.008	ug/L #	75
15) Methyl Acetate	2.436	43	103	0.050	ug/L #	47
16) Methylene chloride	2.507	84	22770	2.352	ug/L	99
21) 2-Butanone	3.982	43	129	0.109	ug/L #	51
25) Chloroform	4.378	83	19225	1.310	ug/L	95
27) 1,2-Dichloroethane	5.053	62	775	0.099	ug/L #	72
30) Cyclohexane	4.532	56	42	0.003	ug/L #	15
33) Benzene	5.121	78	107	0.003	ug/L	100
35) Methylcyclohexane	6.069	83	9436	0.723	ug/L #	18
37) 1,2-Dichloropropane	6.072	63	4305	0.593	ug/L #	83
38) Bromodichloromethane	6.523	83	1661	0.171	ug/L #	94
39) cis-1,3-Dichloropropene	6.992	75	954	0.091	ug/L #	54
40) 4-Methyl-2-pentanone	7.243	43	96	0.029	ug/L #	44

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

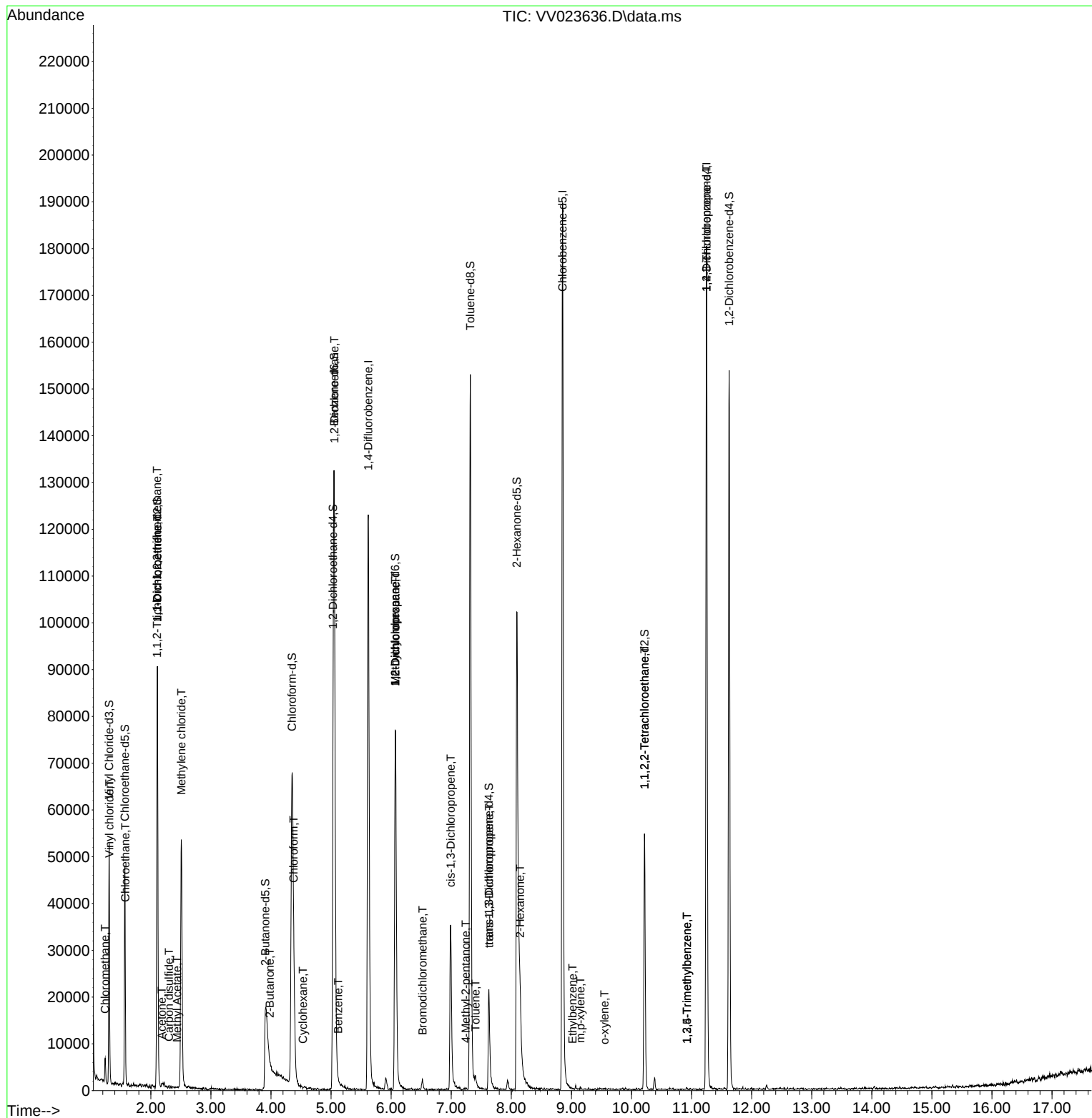
42) Toluene	7.404	91	1890	0.057	ug/L	99
44) trans-1,3-Dichloropropene	7.629	75	625	0.072	ug/L #	56
48) 2-Hexanone	8.146	43	5108	2.166	ug/L #	83
52) Ethylbenzene	9.021	91	80	0.002	ug/L #	42
53) m,p-xylene	9.149	106	94	0.007	ug/L #	56
54) o-xylene	9.551	106	47	0.004	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.217	83	44	0.008	ug/L #	1
61) 1,2,3-Trichloropropane	11.249	75	4853	1.476	ug/L #	65
62) 1,3,5-Trimethylbenzene	10.924	105	173	0.007	ug/L #	85
63) 1,2,4-Trimethylbenzene	10.924	105	173	0.007	ug/L #	80

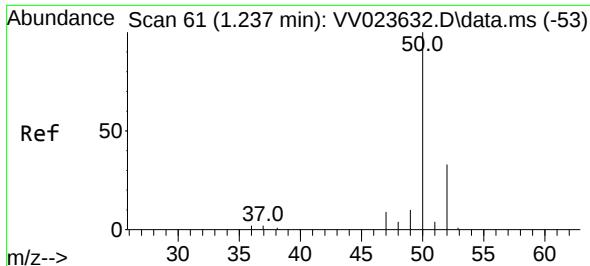
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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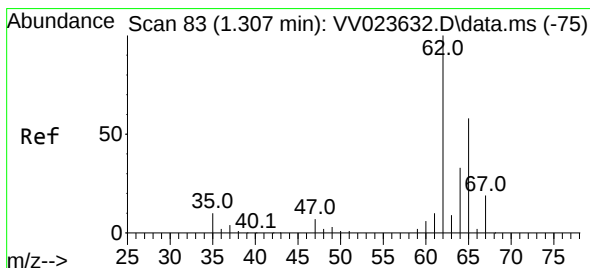
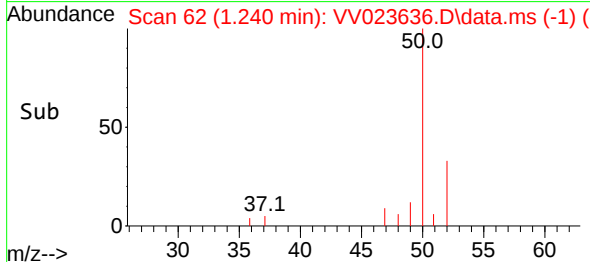
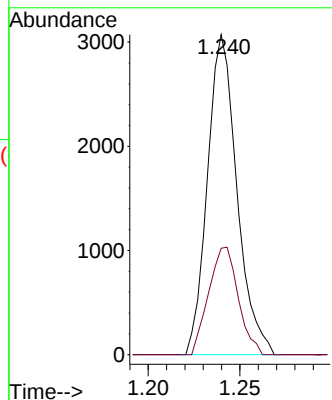
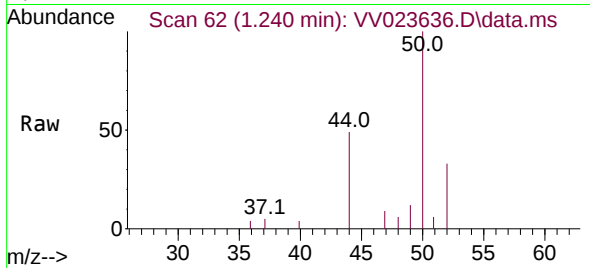




#3
Chloromethane
Concen: 0.372 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

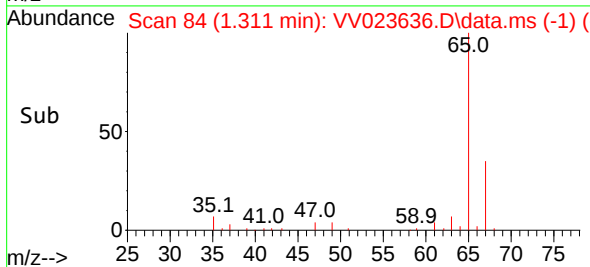
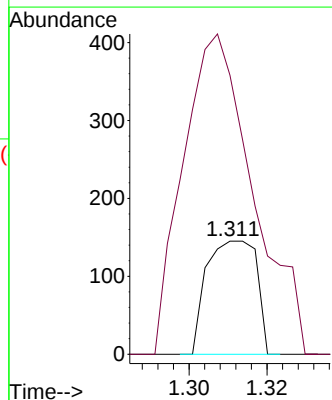
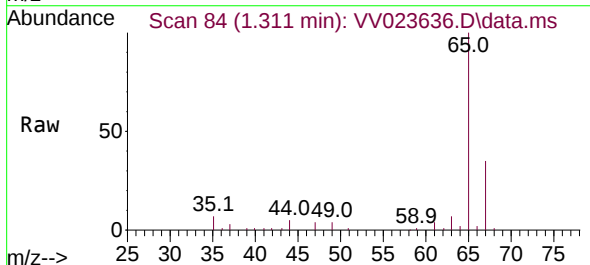
Instrument :
MSVOA_V
ClientSampleId :

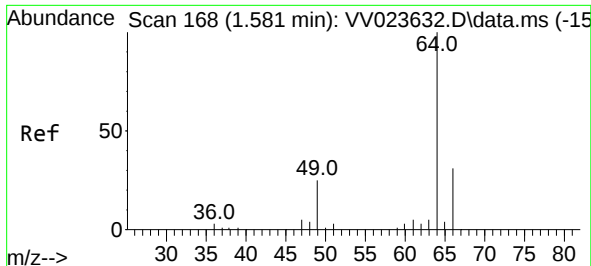
Tgt Ion: 50 Resp: 3426
Ion Ratio Lower Upper
50 100
52 33.3 24.3 45.1



#5
Vinyl chloride
Concen: 0.014 ug/L
RT: 1.311 min Scan# 84
Delta R.T. 0.003 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Tgt Ion: 62 Resp: 129
Ion Ratio Lower Upper
62 100
64 246.9 23.1 42.9

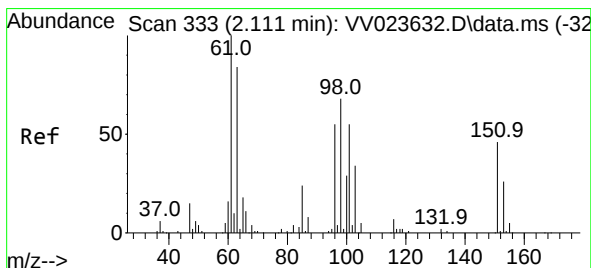
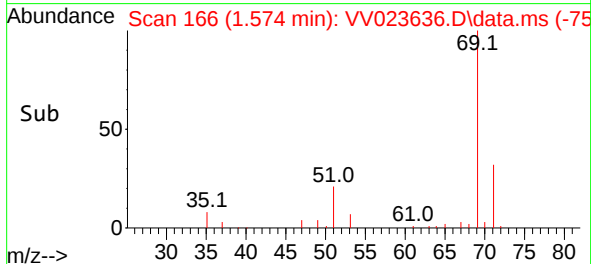
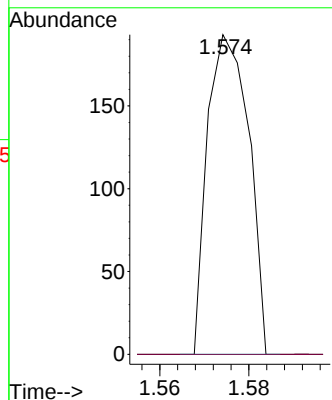
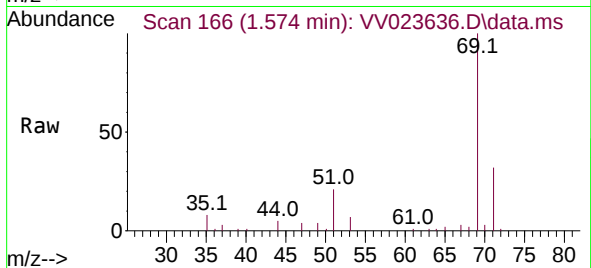




#8
Chloroethane
Concen: 0.023 ug/L
RT: 1.574 min Scan# 11
Delta R.T. -0.006 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

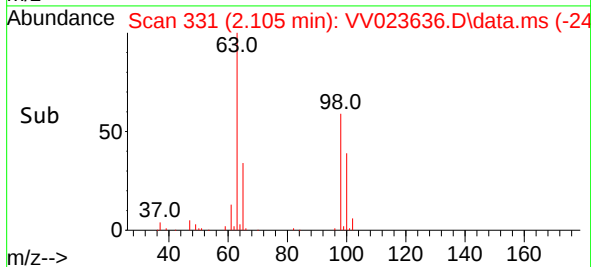
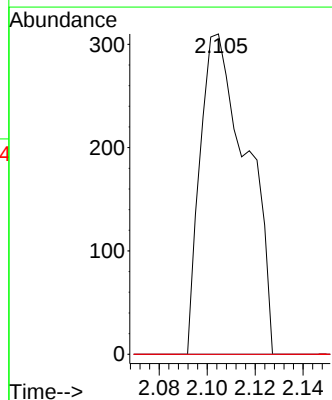
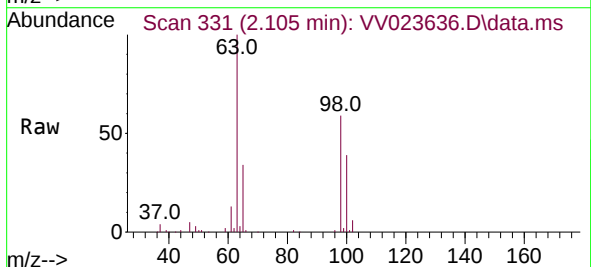
Instrument :
MSVOA_V
ClientSampleId :

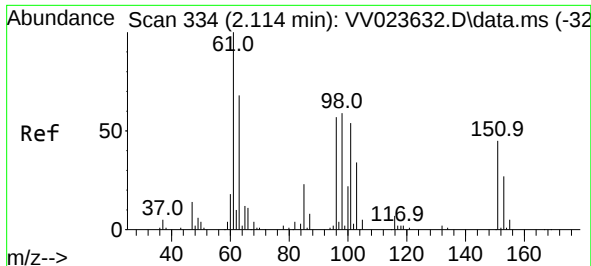
Tgt Ion: 64 Resp: 124
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.060 ug/L
RT: 2.105 min Scan# 331
Delta R.T. -0.006 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Tgt Ion:101 Resp: 419
Ion Ratio Lower Upper
101 100
85 0.0 35.3 52.9#
151 0.0 62.2 93.2#





#12

1,1-Dichloroethene

Concen: 0.057 ug/L

RT: 2.108 min Scan# 31

Delta R.T. -0.006 min

Lab File: VV023636.D

Acq: 19 Nov 2021 12:18

Instrument :

MSVOA_V

ClientSampleId :

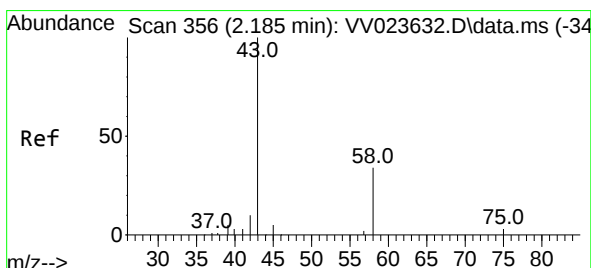
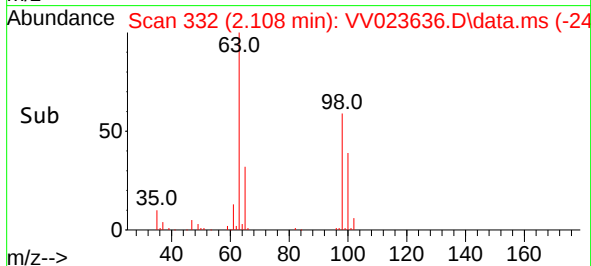
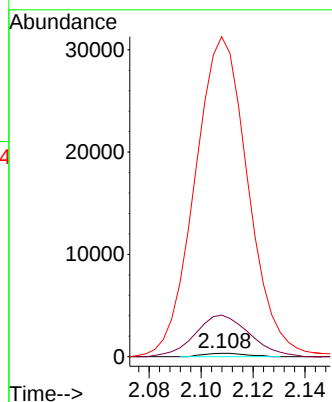
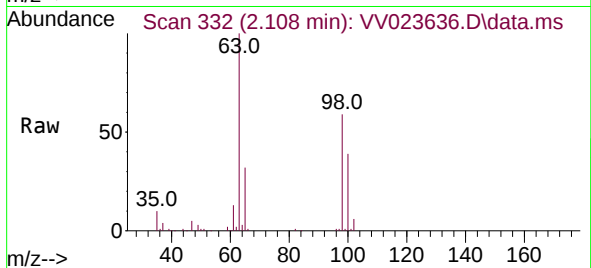
Tgt Ion: 96 Resp: 381

Ion Ratio Lower Upper

96 100

61 1229.6 121.5 225.7#

63 9450.2 99.6 185.0#



#13

Acetone

Concen: 1.051 ug/L

RT: 2.182 min Scan# 355

Delta R.T. -0.003 min

Lab File: VV023636.D

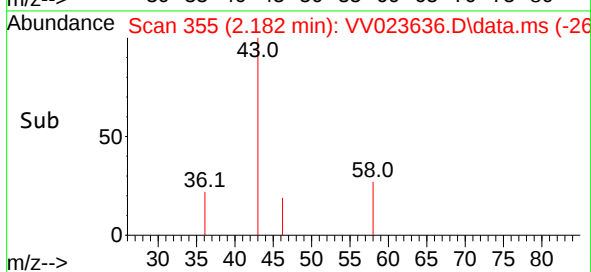
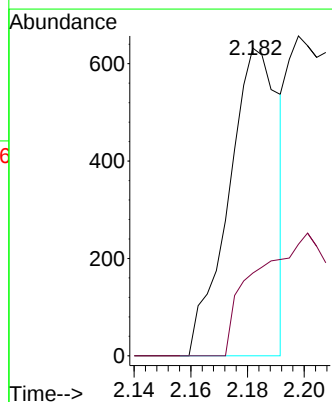
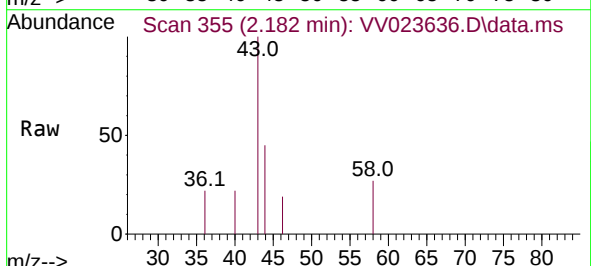
Acq: 19 Nov 2021 12:18

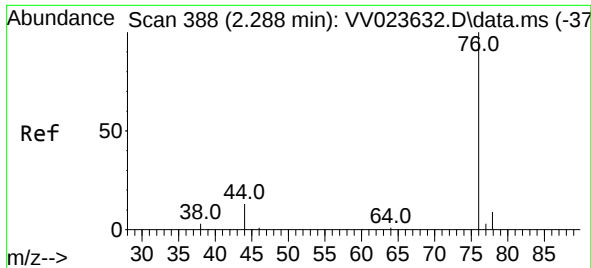
Tgt Ion: 43 Resp: 771

Ion Ratio Lower Upper

43 100

58 0.0 0.0 55.4





#14

Carbon disulfide

Concen: 0.008 ug/L

RT: 2.301 min Scan# 392

Delta R.T. 0.013 min

Lab File: VV023636.D

Acq: 19 Nov 2021 12:18

Instrument :

MSVOA_V

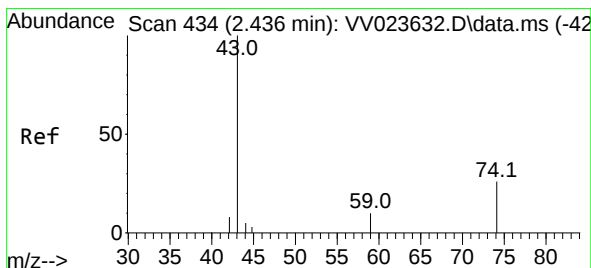
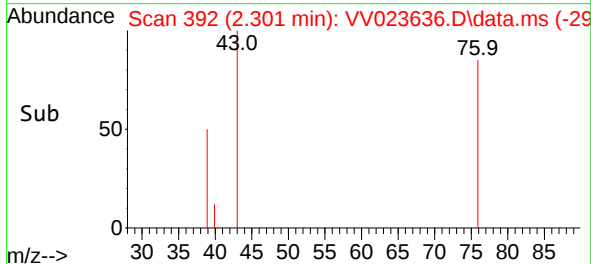
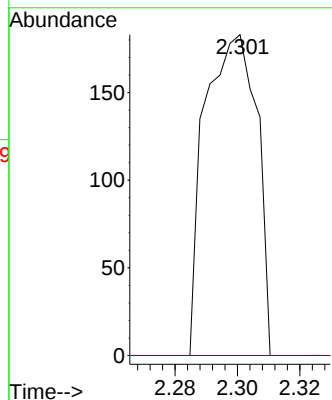
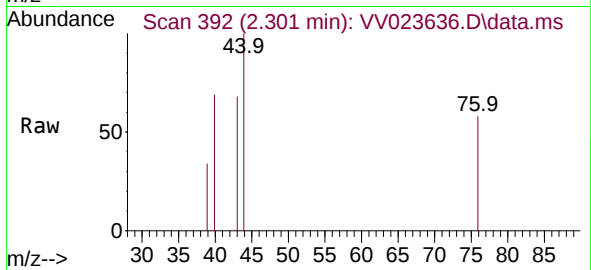
ClientSampleId :

Tgt Ion: 76 Resp: 212

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#15

Methyl Acetate

Concen: 0.050 ug/L

RT: 2.436 min Scan# 434

Delta R.T. 0.000 min

Lab File: VV023636.D

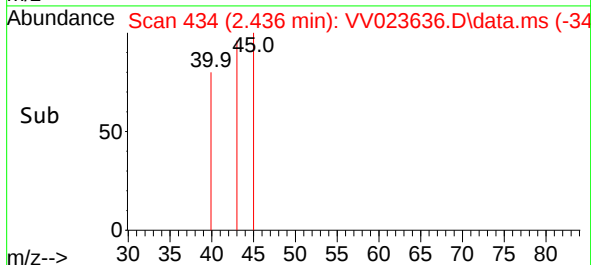
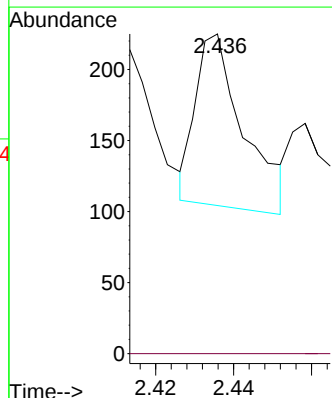
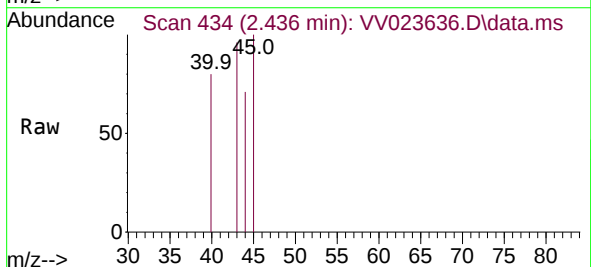
Acq: 19 Nov 2021 12:18

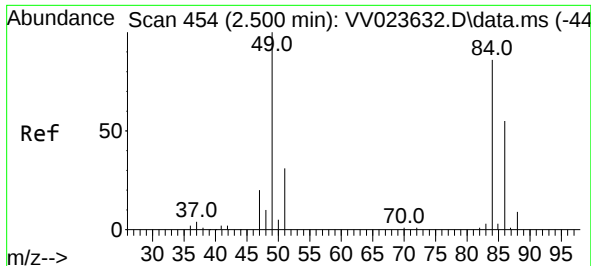
Tgt Ion: 43 Resp: 103

Ion Ratio Lower Upper

43 100

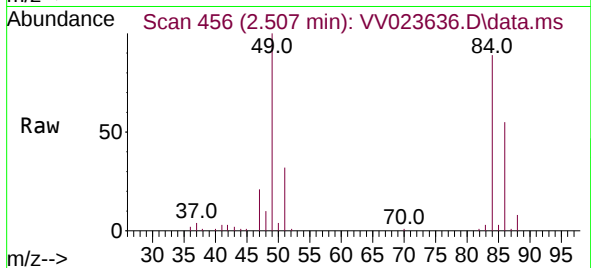
74 0.0 22.2 33.2#



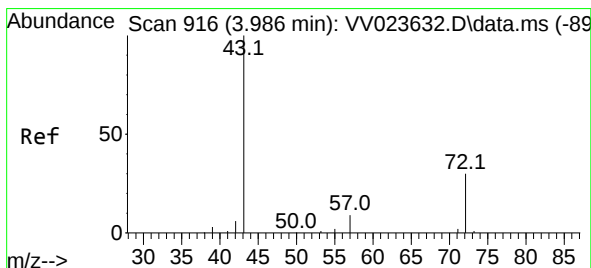
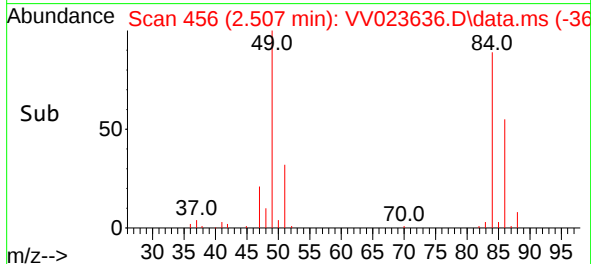
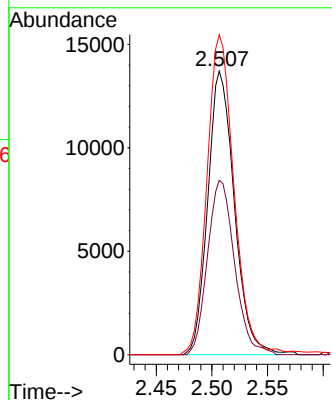


#16
Methylene chloride
Concen: 2.352 ug/L
RT: 2.507 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Instrument :
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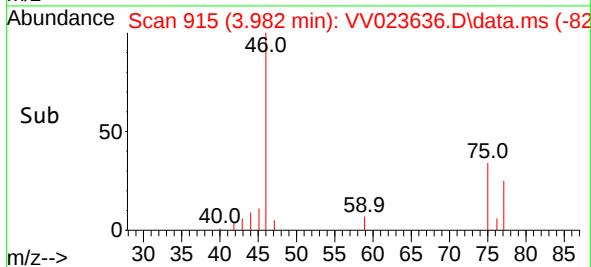
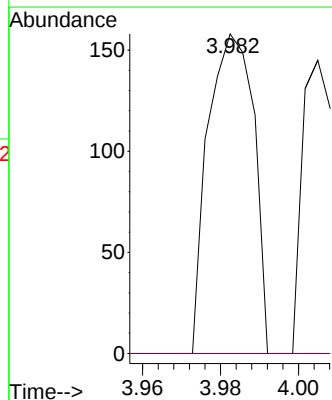
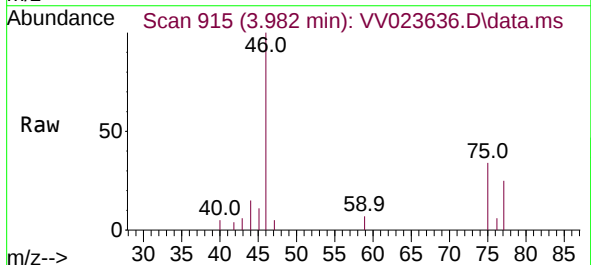


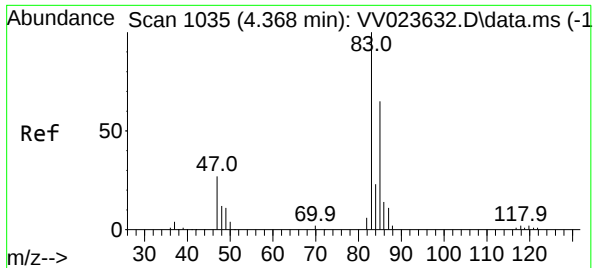
Tgt Ion: 84 Resp: 22770
Ion Ratio Lower Upper
84 100
86 61.5 42.3 78.5
49 112.9 79.7 148.1



#21
2-Butanone
Concen: 0.109 ug/L
RT: 3.982 min Scan# 915
Delta R.T. -0.003 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Tgt Ion: 43 Resp: 129
Ion Ratio Lower Upper
43 100
72 0.0 11.9 35.9#

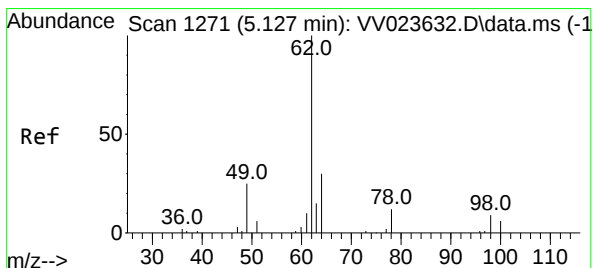
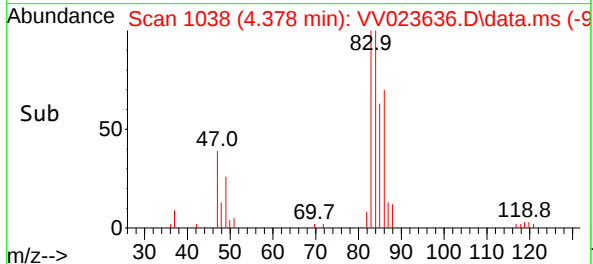
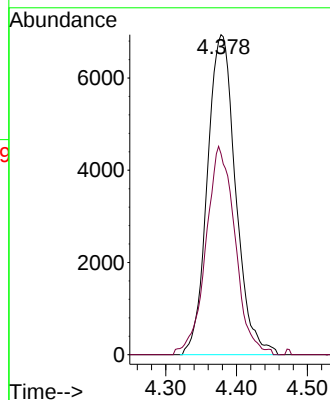
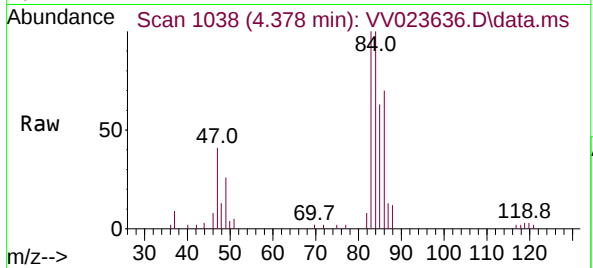




#25
Chloroform
Concen: 1.310 ug/L
RT: 4.378 min Scan# 1035
Delta R.T. 0.010 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

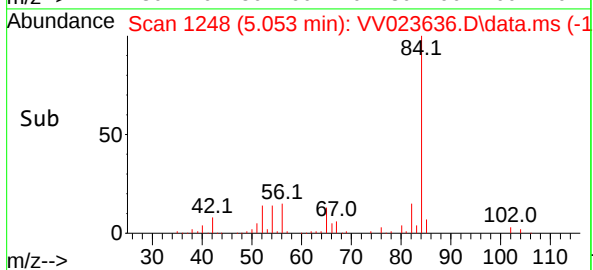
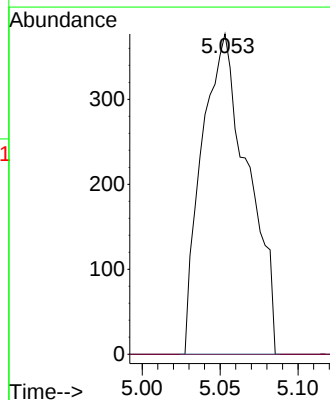
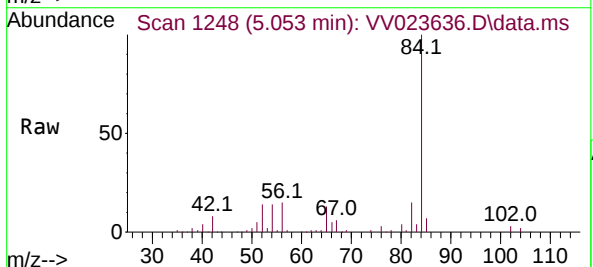
Instrument :
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ClientSampleId :

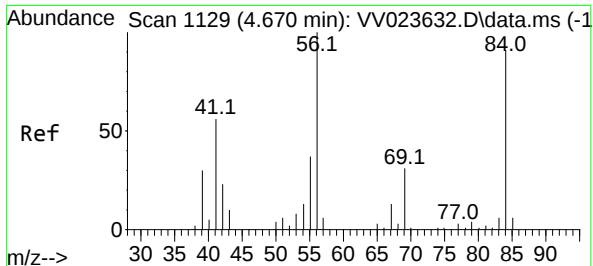
Tgt Ion: 83 Resp: 19225
Ion Ratio Lower Upper
83 100
85 62.8 46.8 86.8



#27
1,2-Dichloroethane
Concen: 0.099 ug/L
RT: 5.053 min Scan# 1248
Delta R.T. -0.074 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Tgt Ion: 62 Resp: 775
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#

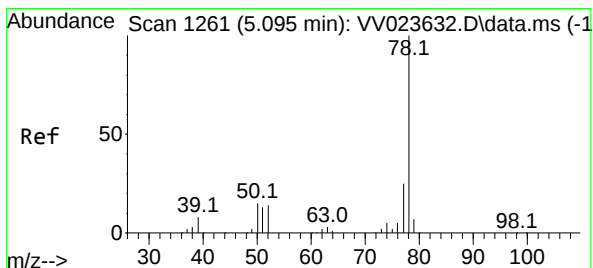
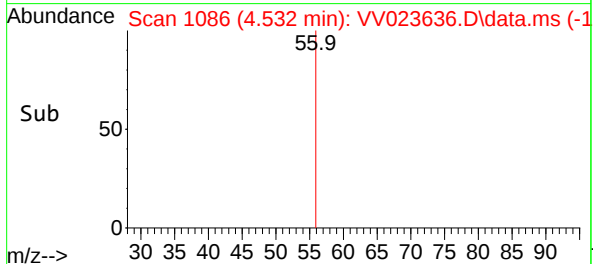
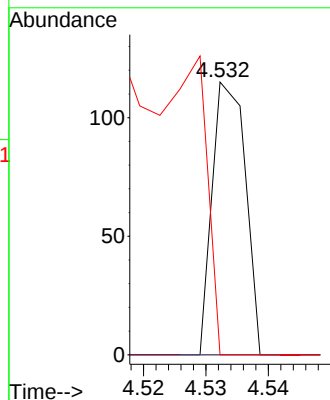
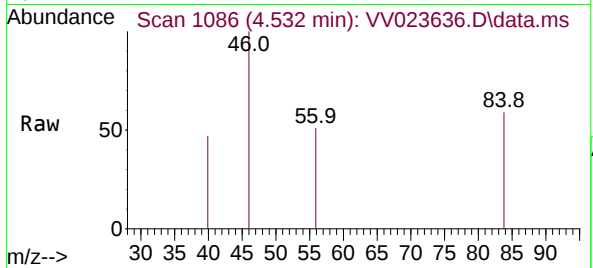




#30
Cyclohexane
Concen: 0.003 ug/L
RT: 4.532 min Scan# 1086
Delta R.T. -0.138 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

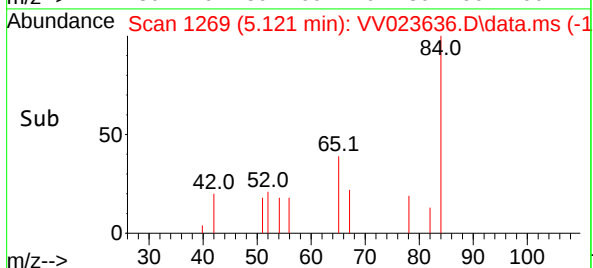
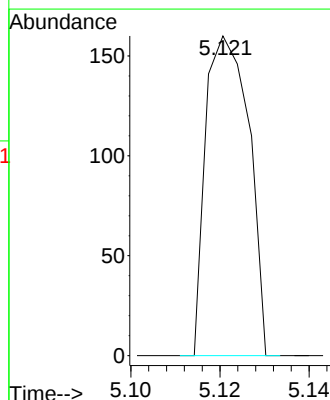
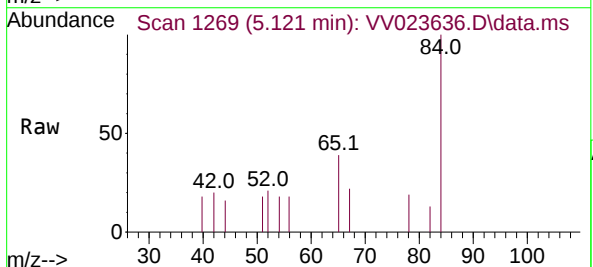
Instrument :
MSVOA_V
ClientSampleId :

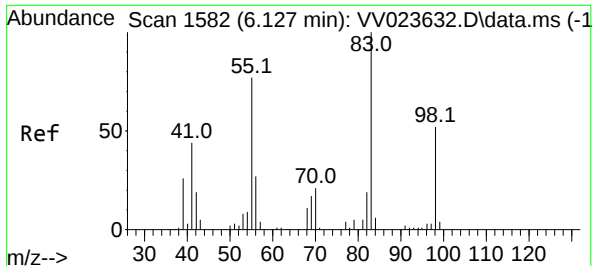
Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
69 0.0 23.5 35.3#
84 0.0 71.6 107.4#



#33
Benzene
Concen: 0.003 ug/L
RT: 5.121 min Scan# 1269
Delta R.T. 0.026 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Tgt Ion: 78 Resp: 107





#35

Methylcyclohexane

Concen: 0.723 ug/L

RT: 6.069 min Scan# 11

Delta R.T. -0.058 min

Lab File: VV023636.D

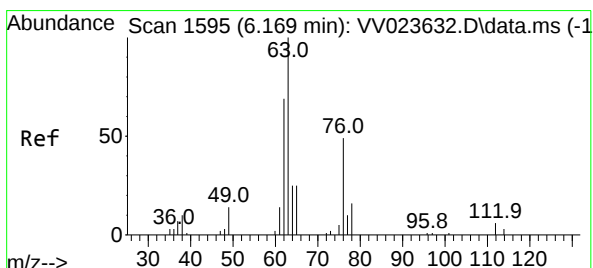
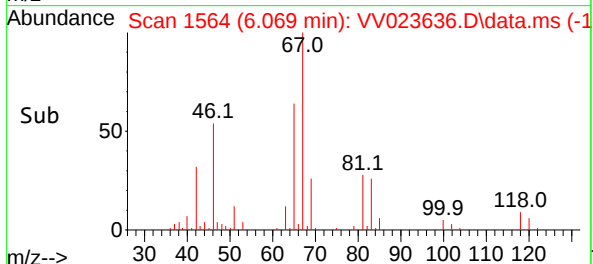
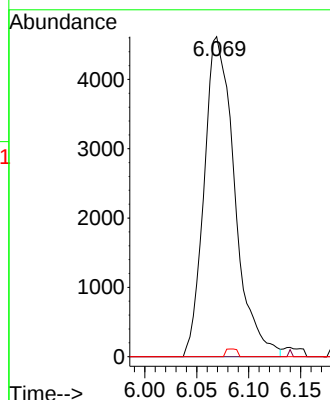
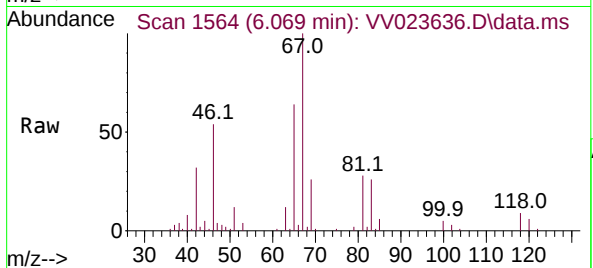
Acq: 19 Nov 2021 12:18

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 83	Resp: 9436
Ion Ratio	Lower Upper
83 100	
55 0.2	62.8 94.2#
98 0.9	37.9 56.9#



#37

1,2-Dichloropropane

Concen: 0.593 ug/L

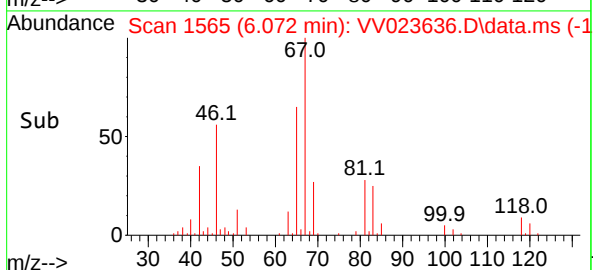
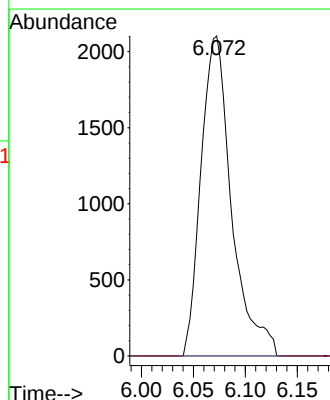
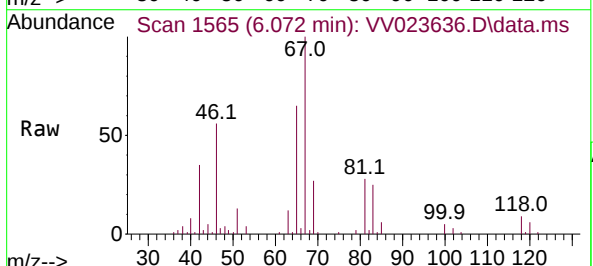
RT: 6.072 min Scan# 1565

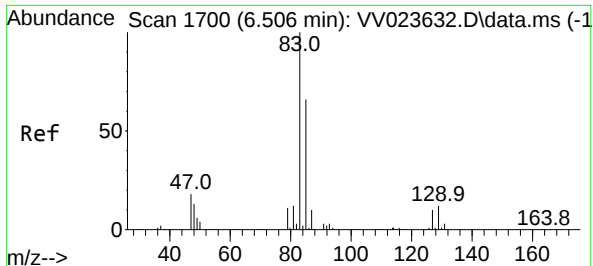
Delta R.T. -0.096 min

Lab File: VV023636.D

Acq: 19 Nov 2021 12:18

Tgt Ion: 63	Resp: 4305
Ion Ratio	Lower Upper
63 100	
112 0.0	4.6 6.8#

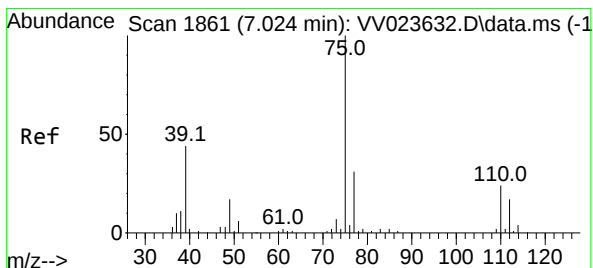
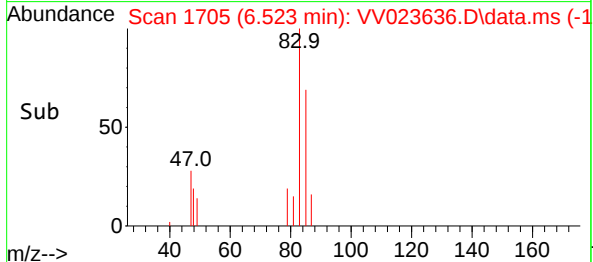
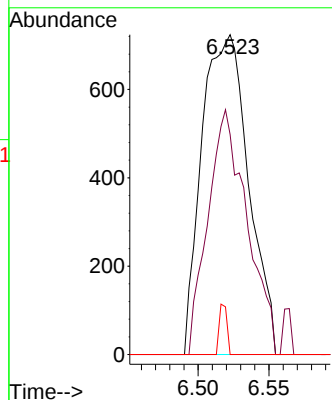
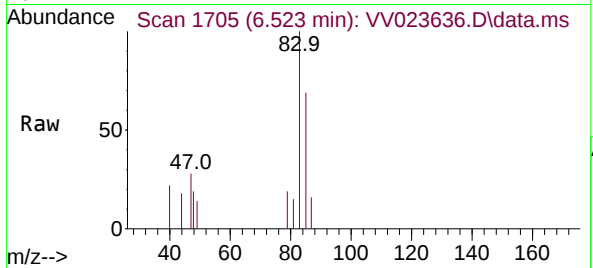




#38
Bromodichloromethane
Concen: 0.171 ug/L
RT: 6.523 min Scan# 11
Delta R.T. 0.016 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

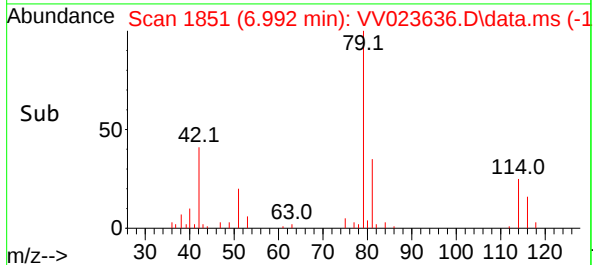
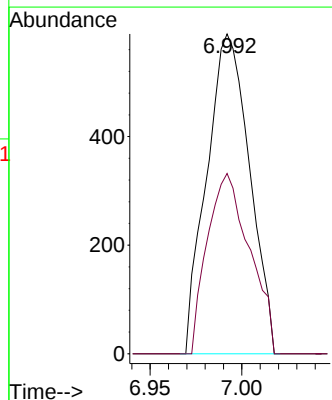
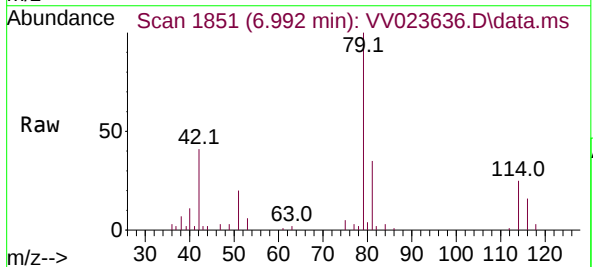
Instrument :
MSVOA_V
ClientSampleId :

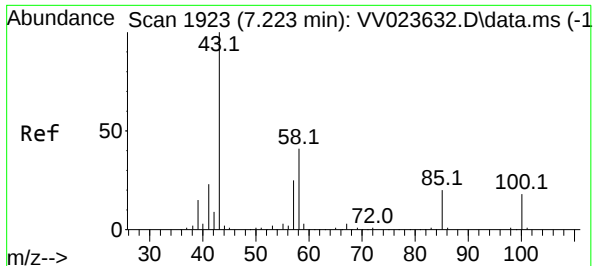
Tgt Ion: 83 Resp: 1661
Ion Ratio Lower Upper
83 100
85 68.8 46.1 85.7
127 0.0 7.2 10.8#



#39
cis-1,3-Dichloropropene
Concen: 0.091 ug/L
RT: 6.992 min Scan# 1851
Delta R.T. -0.032 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Tgt Ion: 75 Resp: 954
Ion Ratio Lower Upper
75 100
77 56.4 21.6 40.2#





#40

4-Methyl-2-pentanone

Concen: 0.029 ug/L

RT: 7.243 min Scan# 1923

Delta R.T. 0.019 min

Lab File: VV023636.D

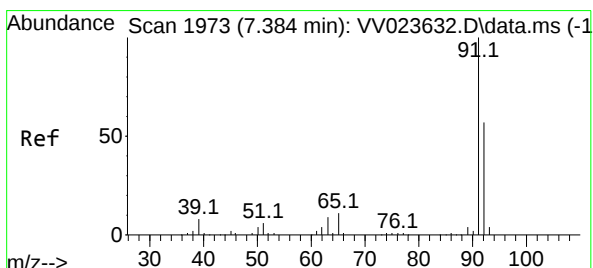
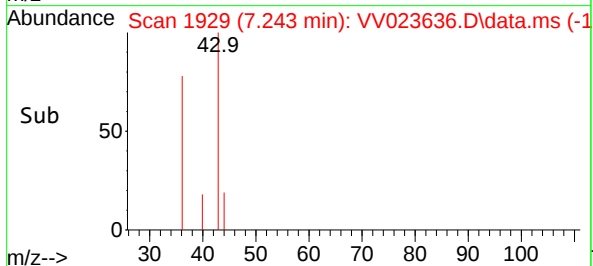
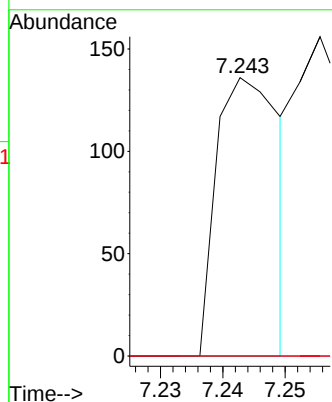
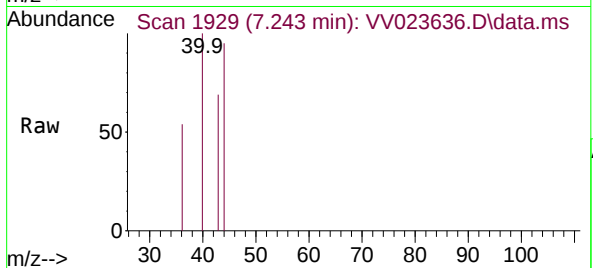
Acq: 19 Nov 2021 12:18

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 43	Resp: 96
Ion Ratio	Lower Upper
43	100
58	0.0 31.1 46.7#
100	0.0 12.6 19.0#



#42

Toluene

Concen: 0.057 ug/L

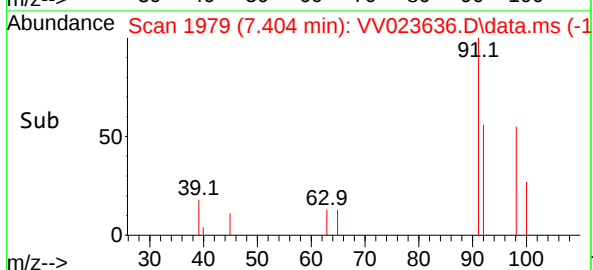
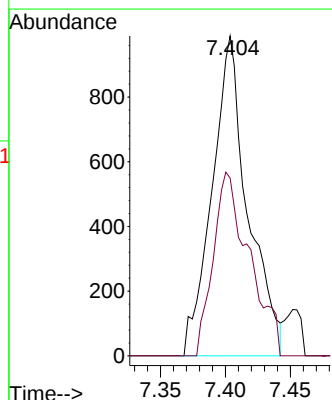
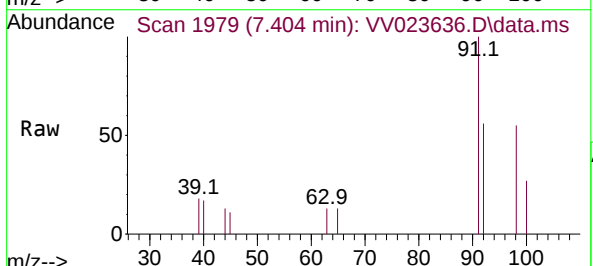
RT: 7.404 min Scan# 1979

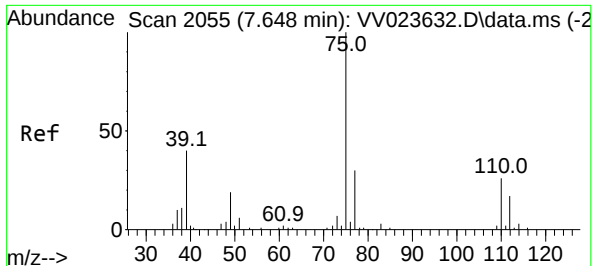
Delta R.T. 0.019 min

Lab File: VV023636.D

Acq: 19 Nov 2021 12:18

Tgt Ion: 91	Resp: 1890
Ion Ratio	Lower Upper
91	100
92	55.6 39.3 72.9

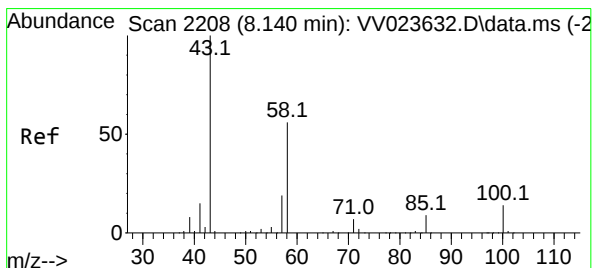
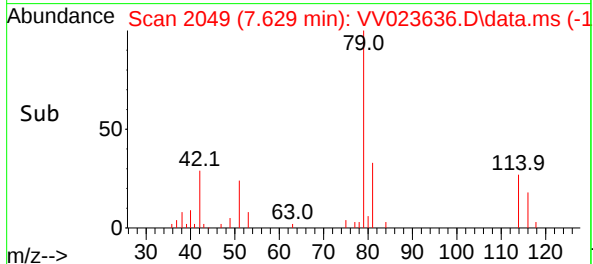
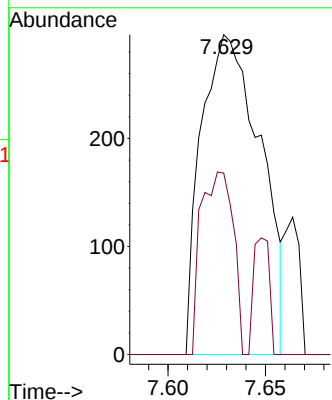
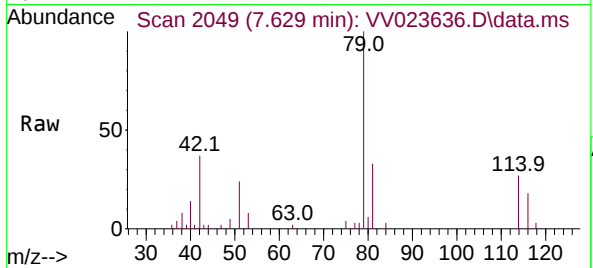




#44
trans-1,3-Dichloropropene
Concen: 0.072 ug/L
RT: 7.629 min Scan# 2055
Delta R.T. -0.019 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

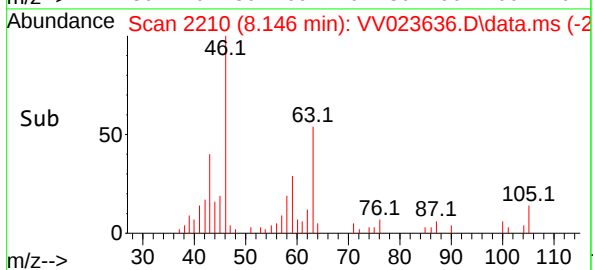
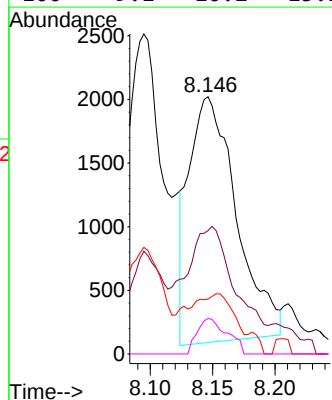
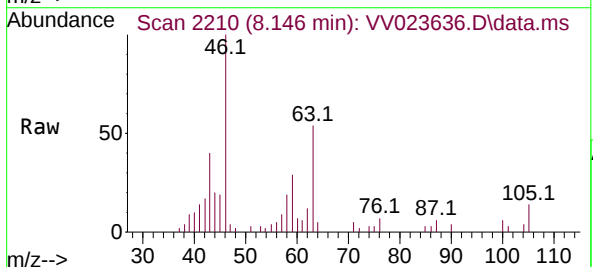
Instrument :
MSVOA_V
ClientSampleId :

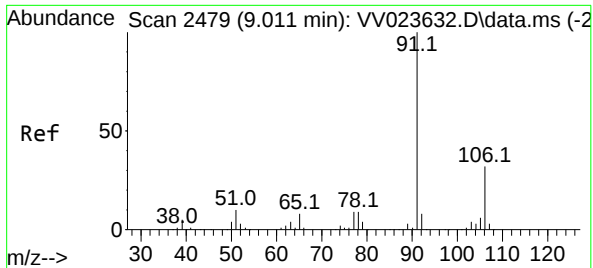
Tgt Ion: 75 Resp: 625
Ion Ratio Lower Upper
75 100
77 56.8 22.5 41.7#



#48
2-Hexanone
Concen: 2.166 ug/L
RT: 8.146 min Scan# 2210
Delta R.T. 0.006 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Tgt Ion: 43 Resp: 5108
Ion Ratio Lower Upper
43 100
58 41.7 43.7 65.5#
57 26.3 14.1 21.1#
100 9.1 10.2 15.2#





#52

Ethylbenzene

Concen: 0.002 ug/L

RT: 9.021 min Scan# 2479

Delta R.T. 0.010 min

Lab File: VV023636.D

Acq: 19 Nov 2021 12:18

Instrument :

MSVOA_V

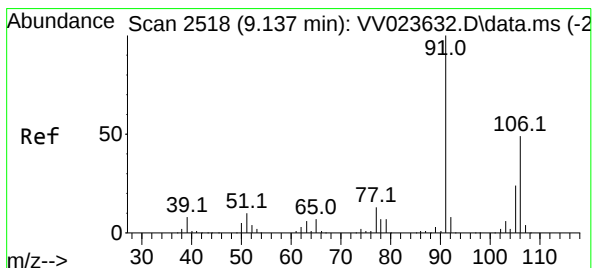
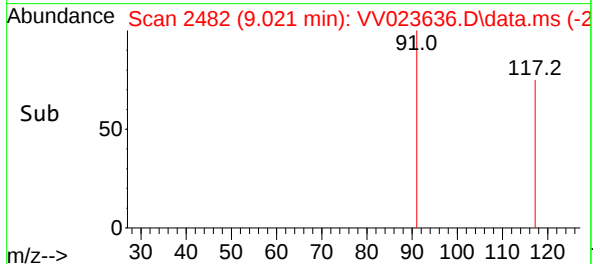
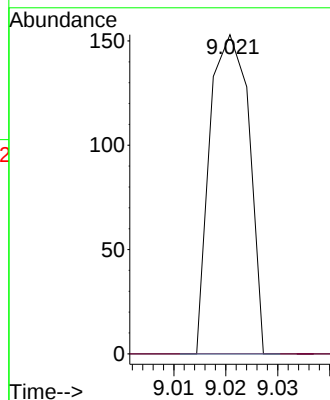
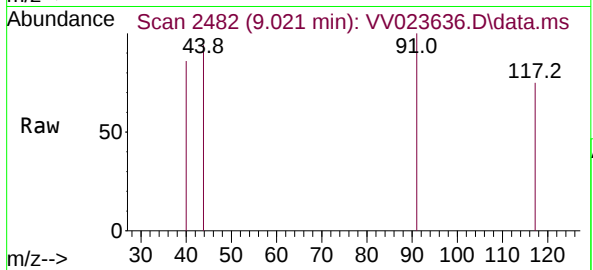
ClientSampleId :

Tgt Ion: 91 Resp: 80

Ion Ratio Lower Upper

91 100

106 0.0 22.5 41.9#



#53

m,p-xylene

Concen: 0.007 ug/L

RT: 9.149 min Scan# 2522

Delta R.T. 0.013 min

Lab File: VV023636.D

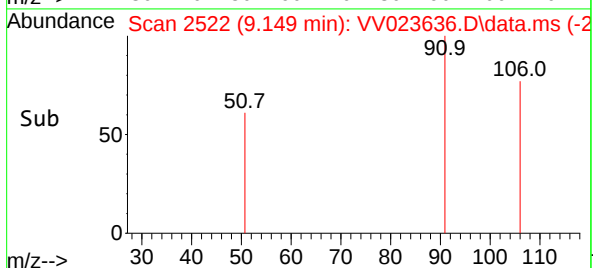
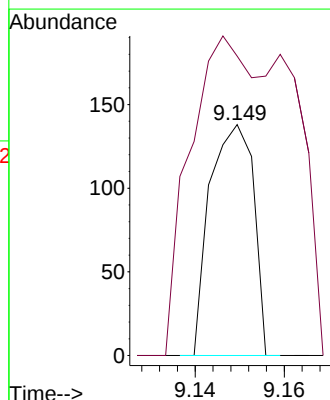
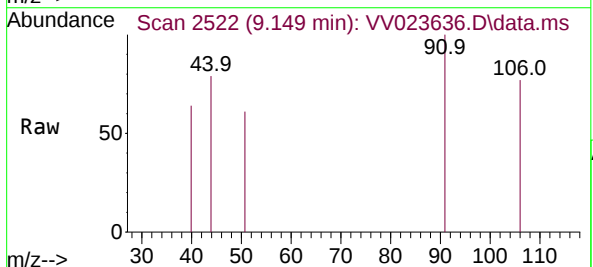
Acq: 19 Nov 2021 12:18

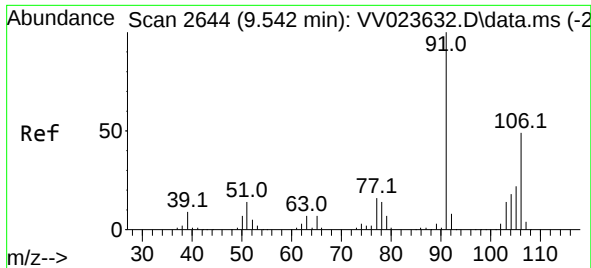
Tgt Ion: 106 Resp: 94

Ion Ratio Lower Upper

106 100

91 129.7 137.2 254.8#

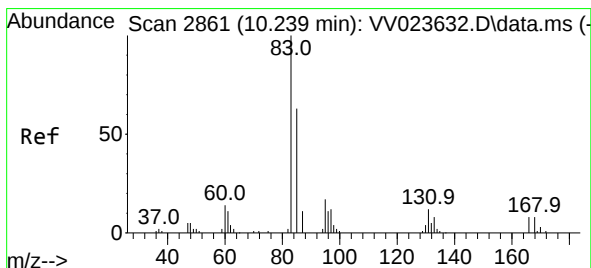
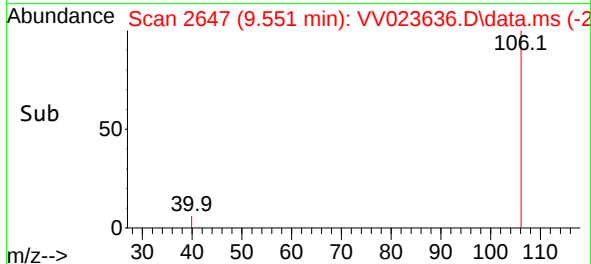
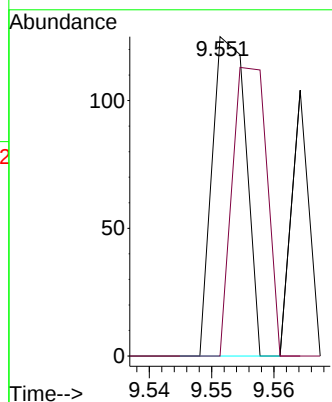
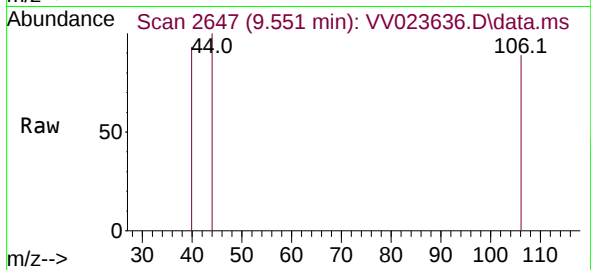




#54
o-xylene
Concen: 0.004 ug/L
RT: 9.551 min Scan# 21
Delta R.T. 0.010 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

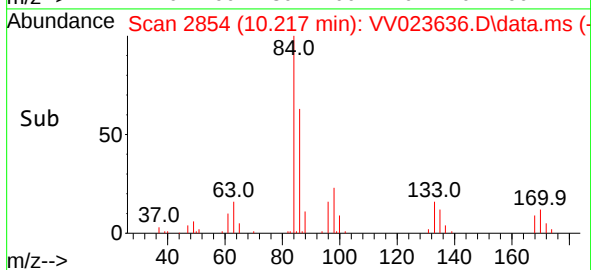
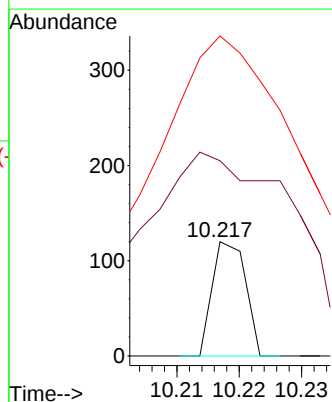
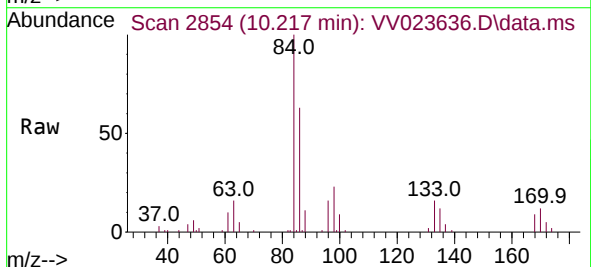
Instrument :
MSVOA_V
ClientSampleId :

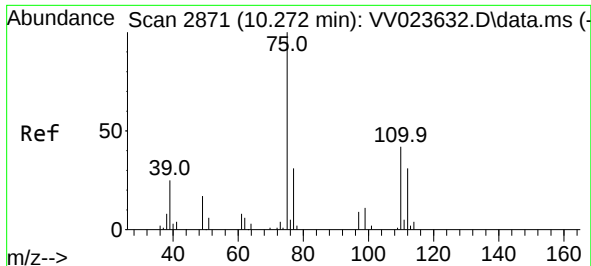
Tgt Ion:106 Resp: 47
Ion Ratio Lower Upper
106 100
91 0.0 148.3 275.5#



#57
1,1,2,2-Tetrachloroethane
Concen: 0.008 ug/L
RT: 10.217 min Scan# 2854
Delta R.T. -0.022 min
Lab File: VV023636.D
Acq: 19 Nov 2021 12:18

Tgt Ion: 83 Resp: 44
Ion Ratio Lower Upper
83 100
85 170.8 45.1 83.9#
131 280.0 7.8 11.6#

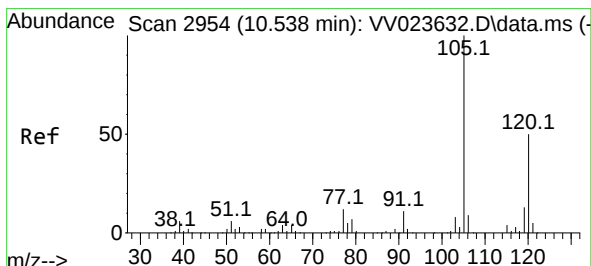
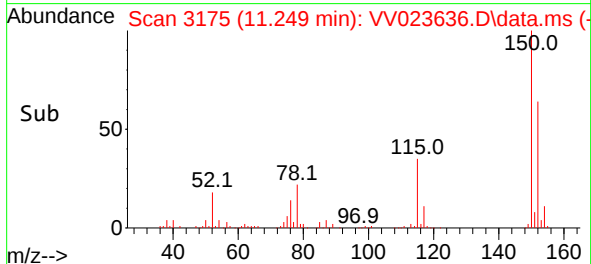
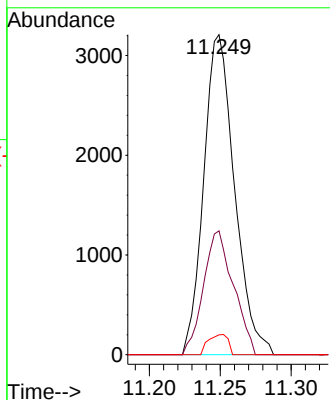
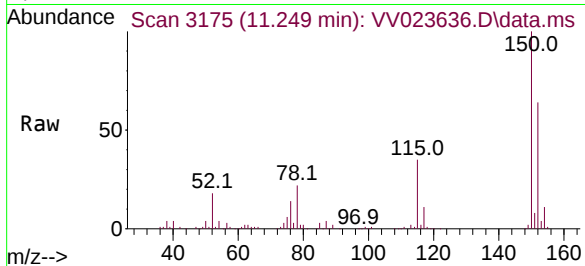




#61
 1,2,3-Trichloropropane
 Concen: 1.476 ug/L
 RT: 11.249 min Scan# 3175
 Delta R.T. 0.977 min
 Lab File: VV023636.D
 Acq: 19 Nov 2021 12:18

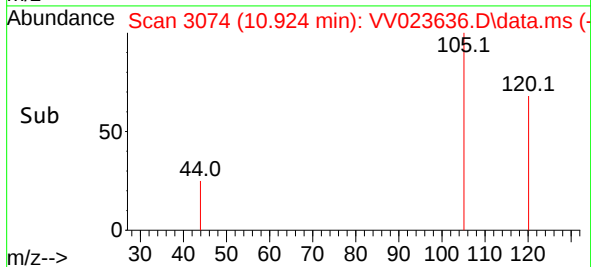
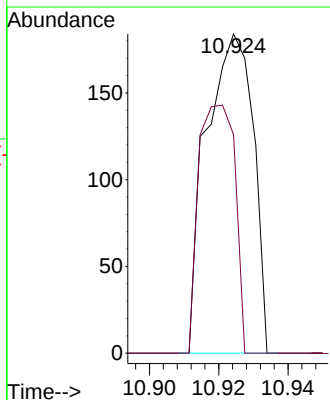
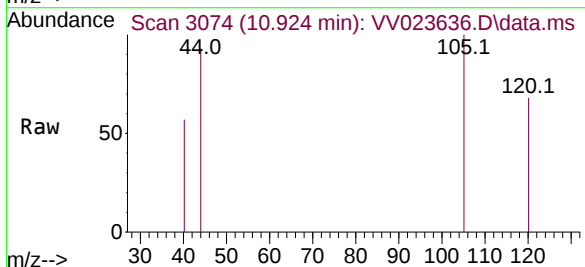
Instrument :
 MSVOA_V
 ClientSampleId :

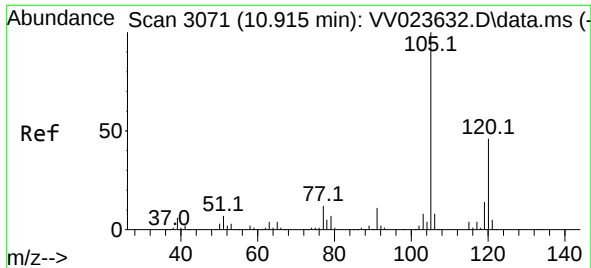
Tgt Ion: 75 Resp: 4853
 Ion Ratio Lower Upper
 75 100
 77 37.6 26.6 39.8
 110 4.0 31.8 47.6#



#62
 1,3,5-Trimethylbenzene
 Concen: 0.007 ug/L
 RT: 10.924 min Scan# 3074
 Delta R.T. 0.386 min
 Lab File: VV023636.D
 Acq: 19 Nov 2021 12:18

Tgt Ion: 105 Resp: 173
 Ion Ratio Lower Upper
 105 100
 120 60.1 39.7 59.5#





#63

1,2,4-Trimethylbenzene

Concen: 0.007 ug/L

RT: 10.924 min Scan# 3074

Delta R.T. 0.010 min

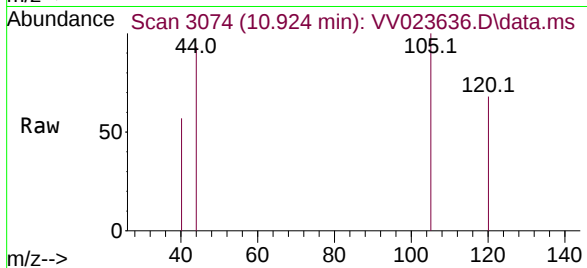
Lab File: VV023636.D

Acq: 19 Nov 2021 12:18

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:105 Resp: 173

Ion Ratio Lower Upper

105 100

120 60.1 37.4 56.2#

