

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023635.D
 Acq On : 19 Nov 2021 11:54
 Operator : SY/MD
 Sample : M4706-08
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:45:50 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	115178	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	115005	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	51629	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	31002	4.297	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.000%
7) Chloroethane-d5	1.568	69	26810	4.559	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.200%
11) 1,1-Dichloroethene-d2	2.108	63	45356	3.358	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.200%
20) 2-Butanone-d5	3.908	46	36624	29.462	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	58.920%
24) Chloroform-d	4.352	84	64747	4.211	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
26) 1,2-Dichloroethane-d4	5.034	65	30487	4.409	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.200%
32) Benzene-d6	5.053	84	117983	3.998	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.000%
36) 1,2-Dichloropropane-d6	6.072	67	36989	4.258	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.200%
41) Toluene-d8	7.317	98	100590	3.638	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.800%
43) trans-1,3-Dichloroprop...	7.625	79	13237	4.019	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.400%
46) 2-Hexanone-d5	8.091	63	43102	35.567	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	71.140%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	23795	3.809	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	76.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	40653	4.729	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	3250	0.340	ug/L	94
5) Vinyl chloride	1.307	62	218	0.023	ug/L #	1
6) Bromomethane	1.519	94	133	0.022	ug/L #	3
8) Chloroethane	1.580	64	343	0.062	ug/L #	43
9) Trichlorofluoromethane	1.754	101	50	0.003	ug/L #	17
10) 1,1,2-Trichloro-1,2,2-...	2.111	101	363	0.050	ug/L #	18
12) 1,1-Dichloroethene	2.108	96	362	0.053	ug/L #	1
13) Acetone	2.188	43	941	1.239	ug/L	49
14) Carbon disulfide	2.288	76	287	0.011	ug/L #	75
15) Methyl Acetate	2.442	43	253	0.118	ug/L #	47
16) Methylene chloride	2.506	84	20098	2.005	ug/L	98
19) 1,1-Dichloroethane	3.188	63	20	0.001	ug/L #	49
21) 2-Butanone	4.002	43	43	0.035	ug/L #	51
25) Chloroform	4.378	83	20403	1.343	ug/L	98
27) 1,2-Dichloroethane	5.040	62	800	0.099	ug/L #	72
33) Benzene	5.075	78	191	0.006	ug/L	100
35) Methylcyclohexane	6.072	83	9118	0.676	ug/L #	18
37) 1,2-Dichloropropane	6.072	63	4284	0.571	ug/L #	83
38) Bromodichloromethane	6.519	83	1597	0.159	ug/L #	93

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

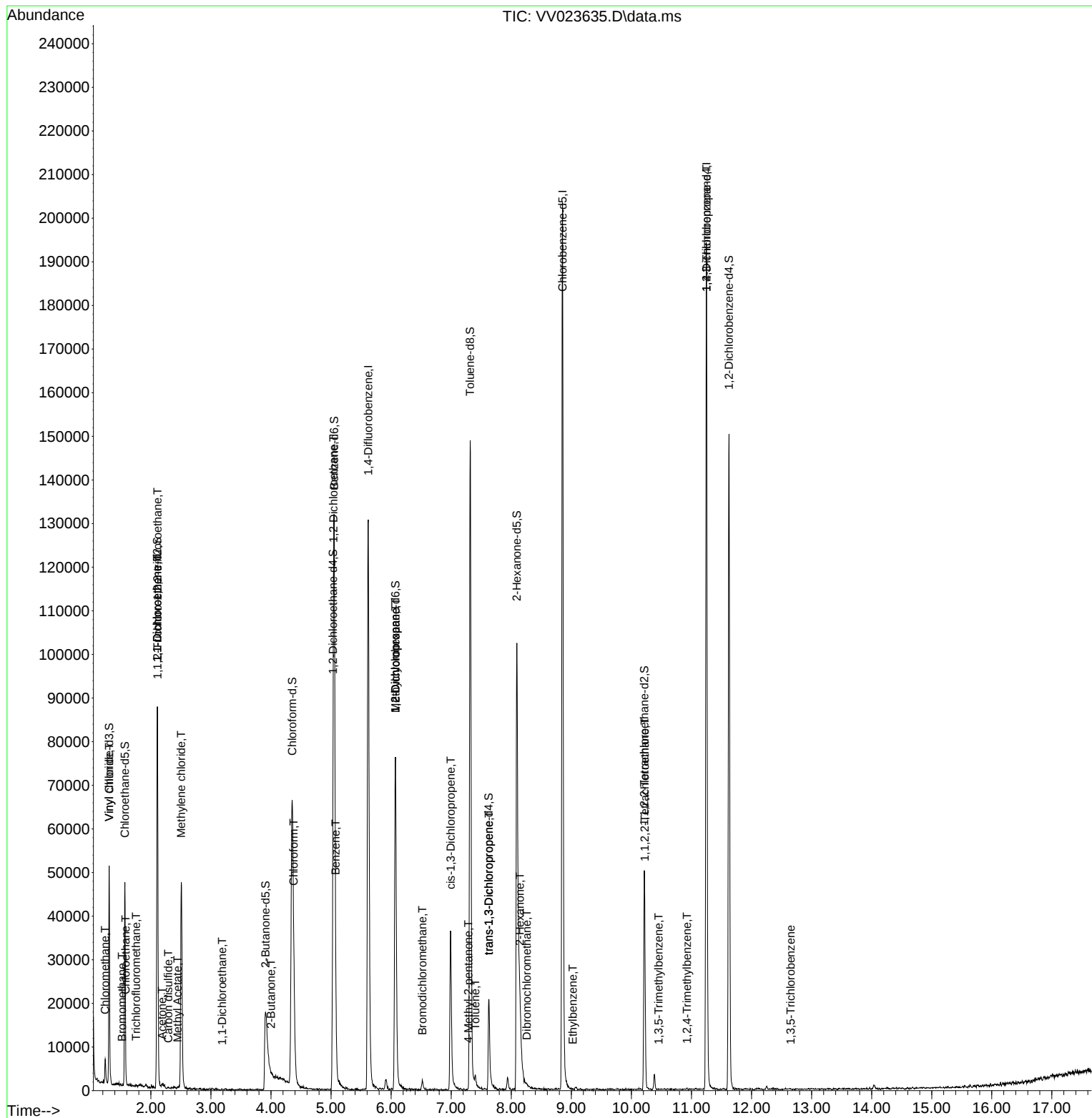
39) cis-1,3-Dichloropropene	6.992	75	1025	0.095	ug/L #	60
40) 4-Methyl-2-pentanone	7.284	43	67	0.019	ug/L #	44
42) Toluene	7.403	91	2061	0.060	ug/L	97
44) trans-1,3-Dichloropropene	7.628	75	672	0.075	ug/L	97
48) 2-Hexanone	8.143	43	4280	1.755	ug/L #	80
49) Dibromochloromethane	8.259	129	66	0.010	ug/L #	10
52) Ethylbenzene	9.027	91	65	0.002	ug/L #	42
57) 1,1,2,2-Tetrachloroethane	10.223	83	40	0.007	ug/L #	1
61) 1,2,3-Trichloropropane	11.249	75	5428	1.583	ug/L #	63
62) 1,3,5-Trimethylbenzene	10.455	105	42	0.002	ug/L #	28
63) 1,2,4-Trimethylbenzene	10.927	105	163	0.007	ug/L #	73
69) 1,3,5-Trichlorobenzene	12.651	180	20	0.002	ug/L #	19

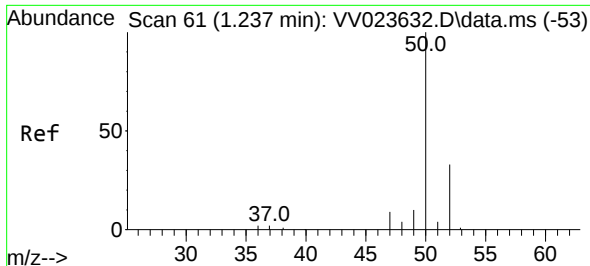
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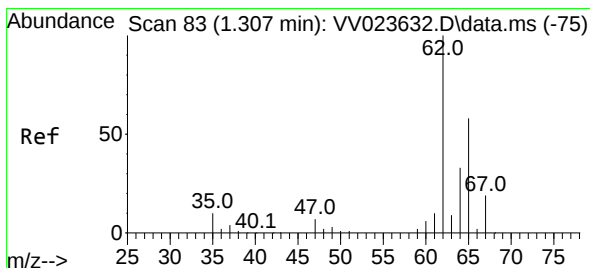
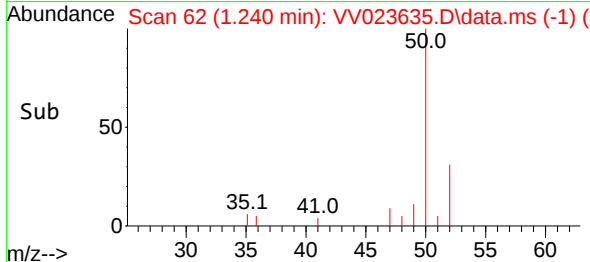
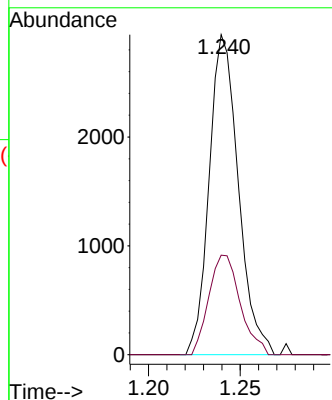
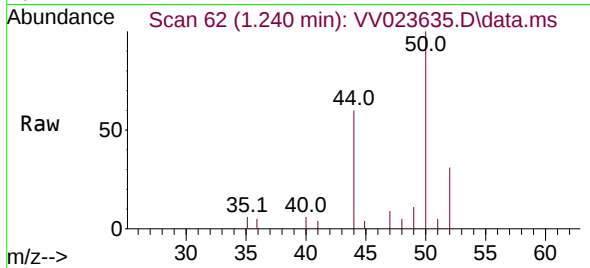




#3
Chloromethane
Concen: 0.340 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

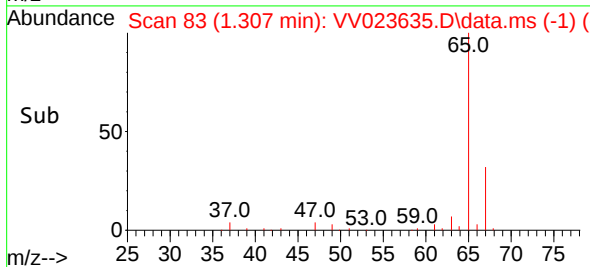
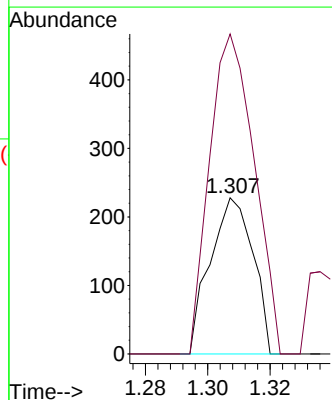
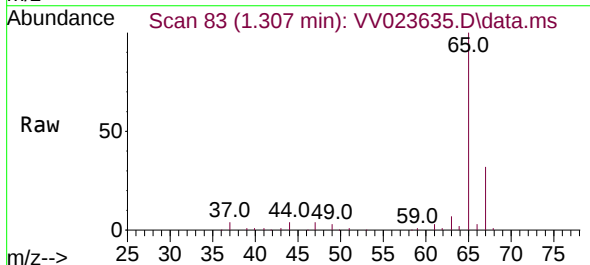
Instrument :
MSVOA_V
ClientSampleId :

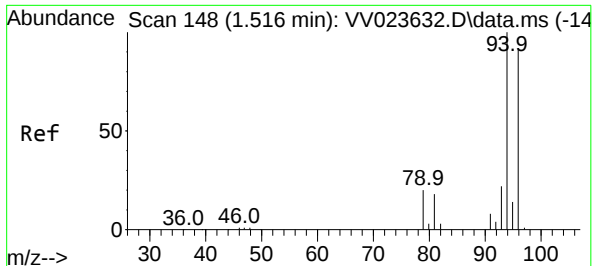
Tgt Ion: 50 Resp: 3250
Ion Ratio Lower Upper
50 100
52 31.1 24.3 45.1



#5
Vinyl chloride
Concen: 0.023 ug/L
RT: 1.307 min Scan# 83
Delta R.T. -0.000 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Tgt Ion: 62 Resp: 218
Ion Ratio Lower Upper
62 100
64 204.8 23.1 42.9

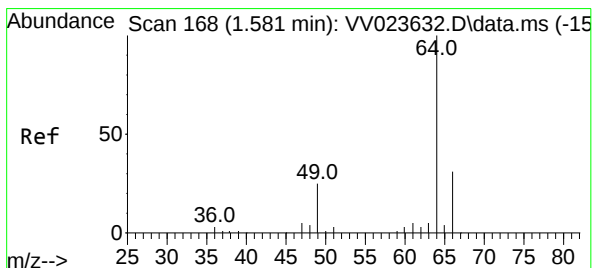
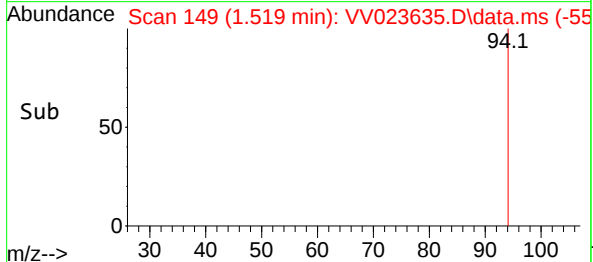
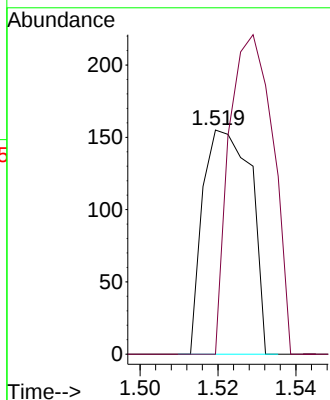
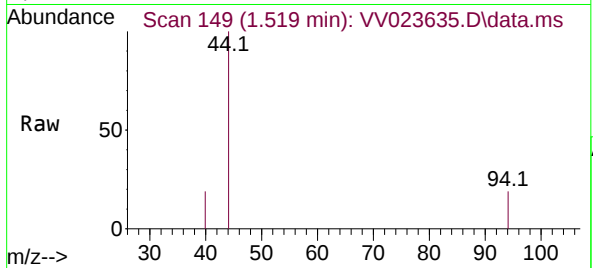




#6
Bromomethane
Concen: 0.022 ug/L
RT: 1.519 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

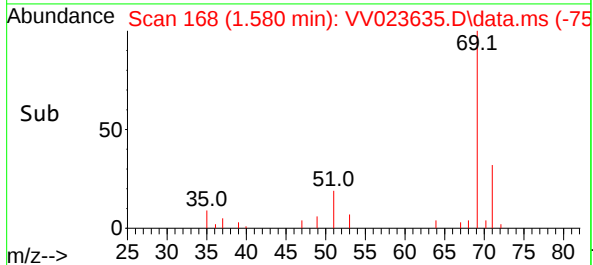
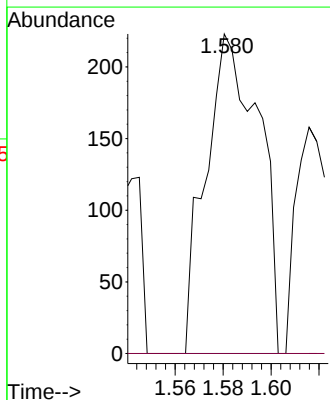
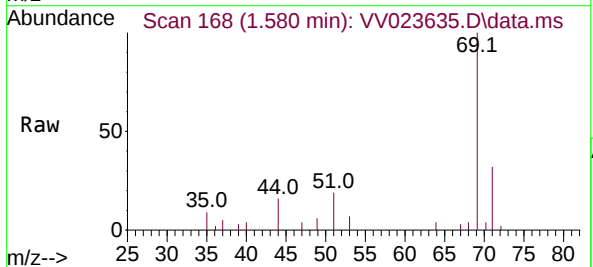
Instrument :
MSVOA_V
ClientSampleId :

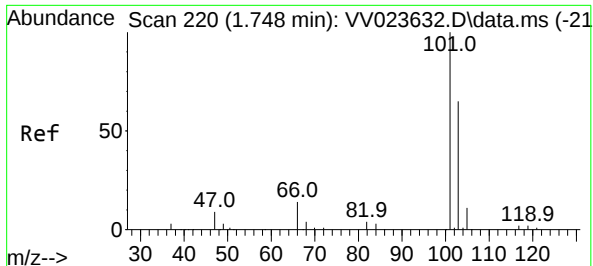
Tgt Ion: 94 Resp: 133
Ion Ratio Lower Upper
94 100
96 0.0 65.0 120.8#



#8
Chloroethane
Concen: 0.062 ug/L
RT: 1.580 min Scan# 168
Delta R.T. -0.000 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Tgt Ion: 64 Resp: 343
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#

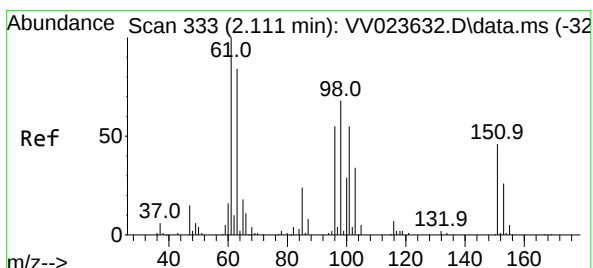
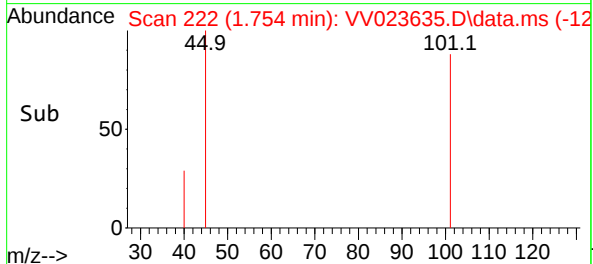
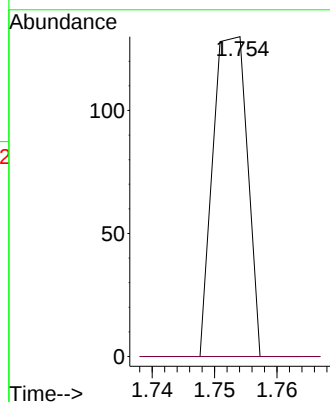
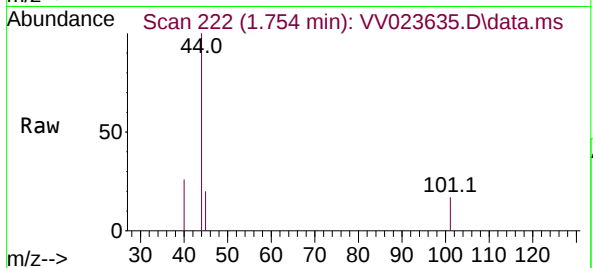




#9
 Trichlorofluoromethane
 Concen: 0.003 ug/L
 RT: 1.754 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VV023635.D
 Acq: 19 Nov 2021 11:54

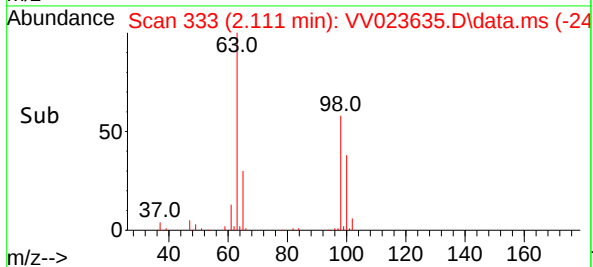
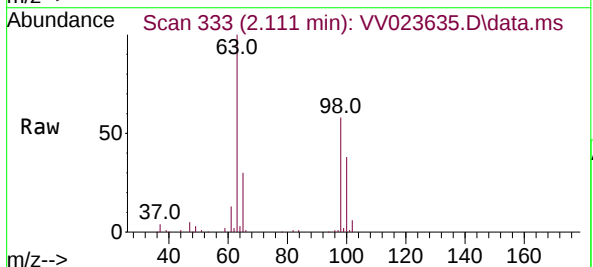
Instrument :
 MSVOA_V
 ClientSampleId :

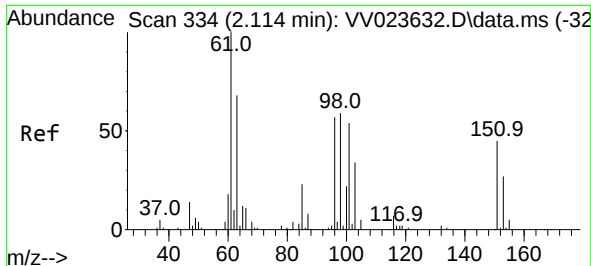
Tgt Ion:101 Resp: 50
 Ion Ratio Lower Upper
 101 100
 103 0.0 52.6 79.0#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.050 ug/L
 RT: 2.111 min Scan# 333
 Delta R.T. -0.000 min
 Lab File: VV023635.D
 Acq: 19 Nov 2021 11:54

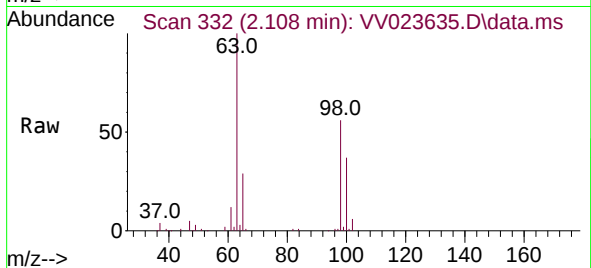
Tgt Ion:101 Resp: 363
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.3 52.9#
 151 0.0 62.2 93.2#



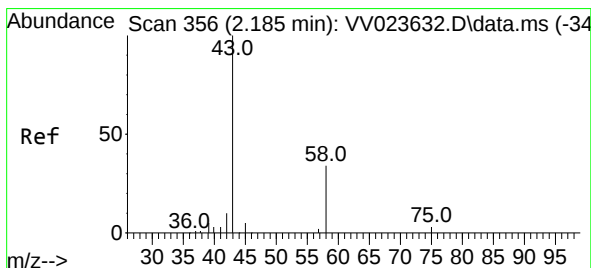
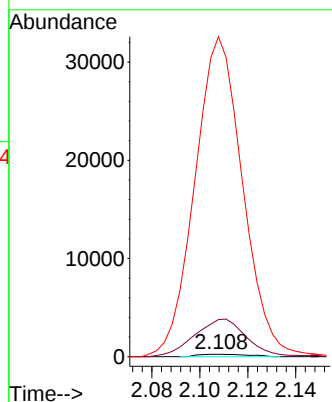
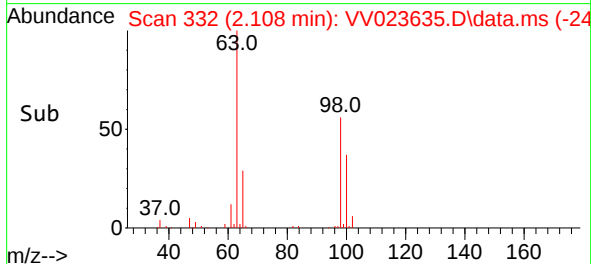


#12
1,1-Dichloroethene
Concen: 0.053 ug/L
RT: 2.108 min Scan# 31
Delta R.T. -0.007 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Instrument :
MSVOA_V
ClientSampleId :

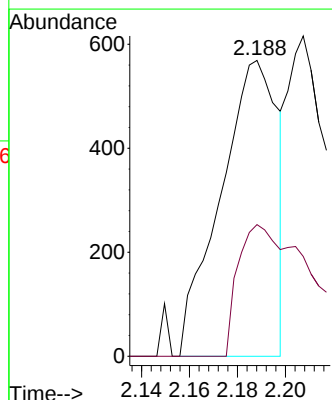
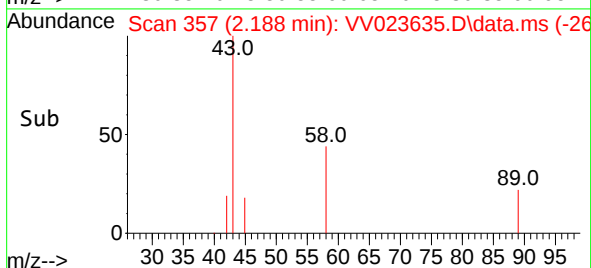
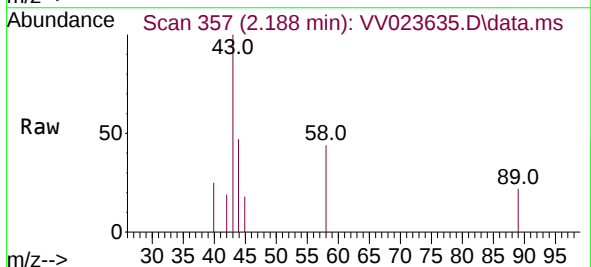


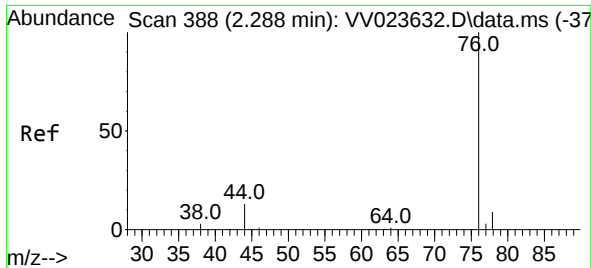
Tgt Ion: 96 Resp: 362
Ion Ratio Lower Upper
96 100
61 1511.6 121.5 225.7#
63 13036.8 99.6 185.0#



#13
Acetone
Concen: 1.239 ug/L
RT: 2.188 min Scan# 357
Delta R.T. 0.003 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Tgt Ion: 43 Resp: 941
Ion Ratio Lower Upper
43 100
58 54.5 0.0 55.4

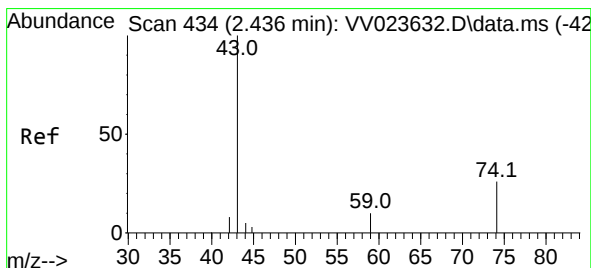
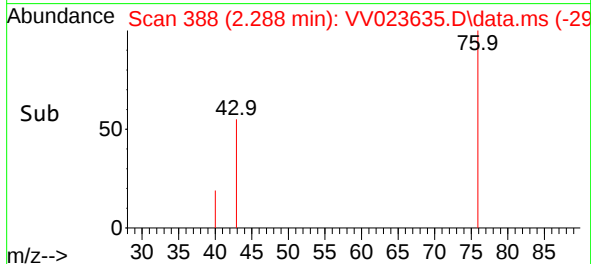
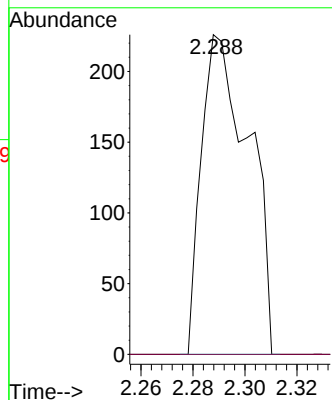
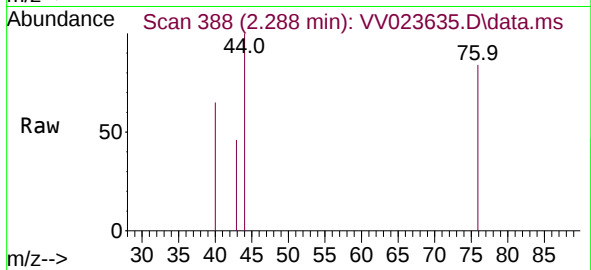




#14
Carbon disulfide
Concen: 0.011 ug/L
RT: 2.288 min Scan# 388
Delta R.T. -0.000 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

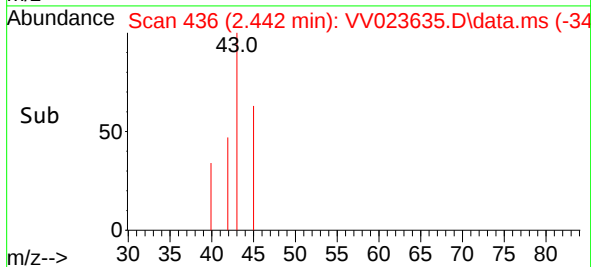
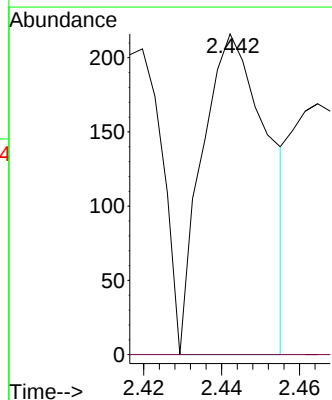
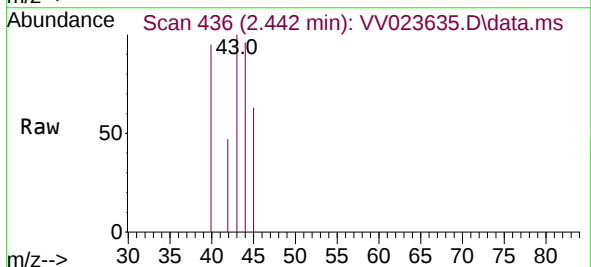
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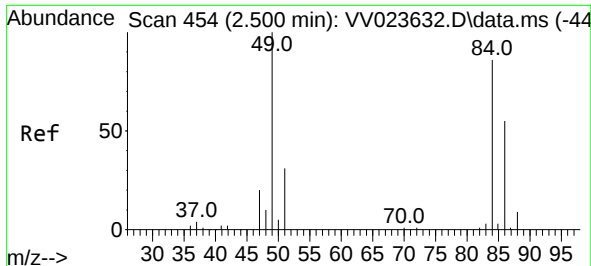
Tgt Ion: 76 Resp: 287
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#15
Methyl Acetate
Concen: 0.118 ug/L
RT: 2.442 min Scan# 436
Delta R.T. 0.006 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

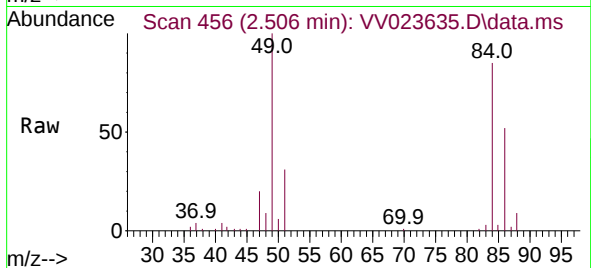
Tgt Ion: 43 Resp: 253
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.2#



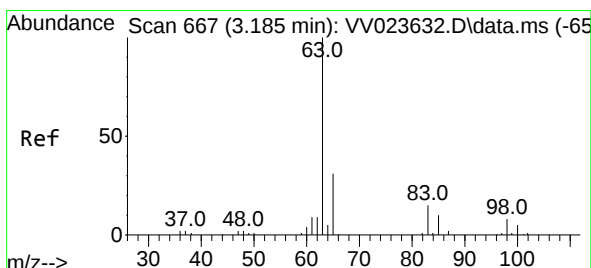
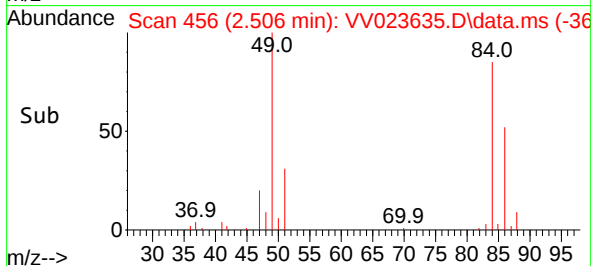
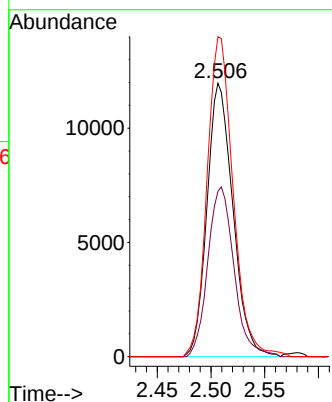


#16
Methylene chloride
Concen: 2.005 ug/L
RT: 2.506 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Instrument :
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ClientSampleId :

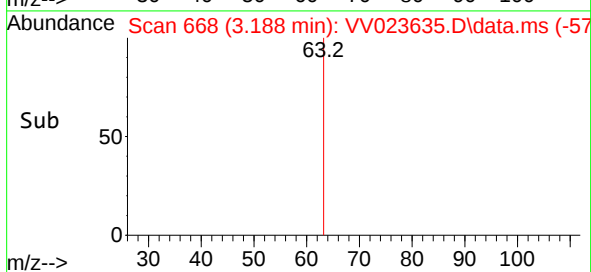
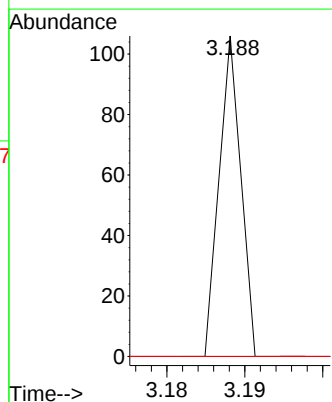
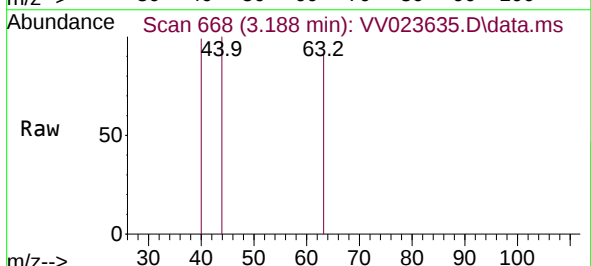


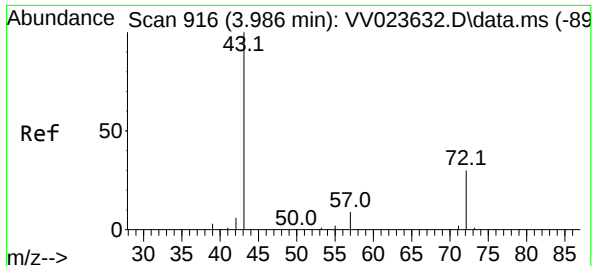
Tgt Ion: 84 Resp: 20098
Ion Ratio Lower Upper
84 100
86 60.5 42.3 78.5
49 117.1 79.7 148.1



#19
1,1-Dichloroethane
Concen: 0.001 ug/L
RT: 3.188 min Scan# 668
Delta R.T. 0.003 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
65 0.0 22.6 42.0#
83 0.0 11.1 20.7#

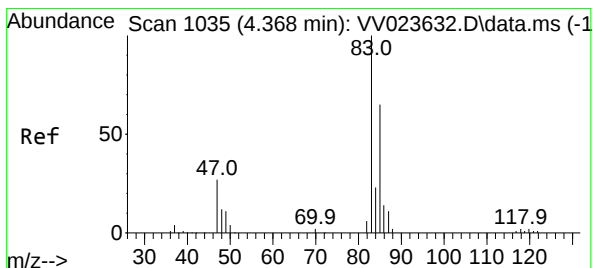
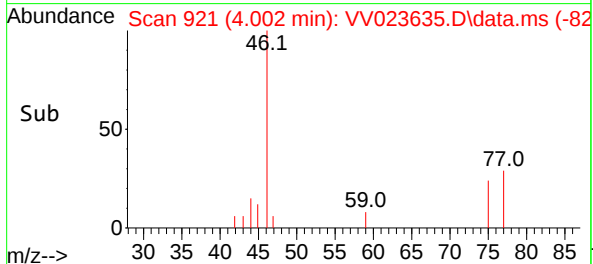
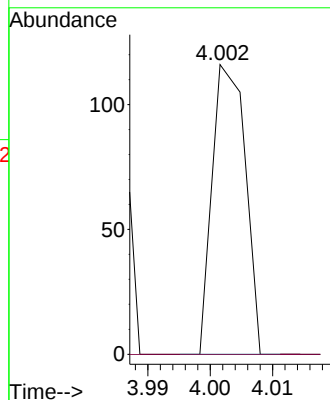
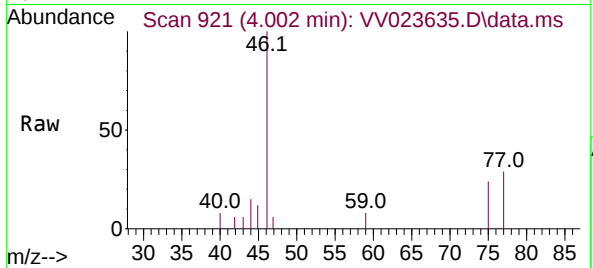




#21
2-Butanone
Concen: 0.035 ug/L
RT: 4.002 min Scan# 916
Delta R.T. 0.016 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

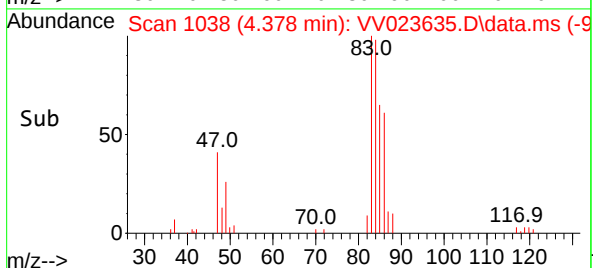
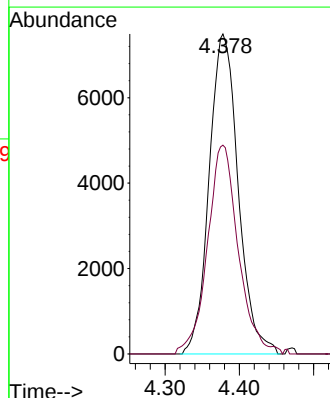
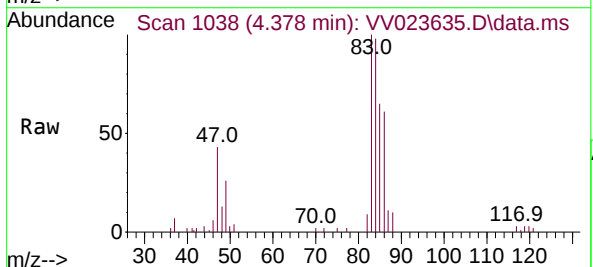
Instrument :
MSVOA_V
ClientSampleId :

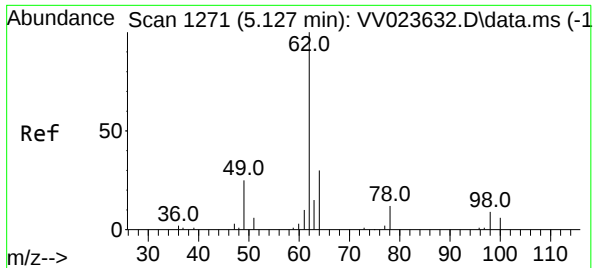
Tgt Ion: 43 Resp: 43
Ion Ratio Lower Upper
43 100
72 0.0 11.9 35.9#



#25
Chloroform
Concen: 1.343 ug/L
RT: 4.378 min Scan# 1038
Delta R.T. 0.010 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Tgt Ion: 83 Resp: 20403
Ion Ratio Lower Upper
83 100
85 65.3 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.099 ug/L

RT: 5.040 min Scan# 11

Delta R.T. -0.087 min

Lab File: VV023635.D

Acq: 19 Nov 2021 11:54

Instrument :

MSVOA_V

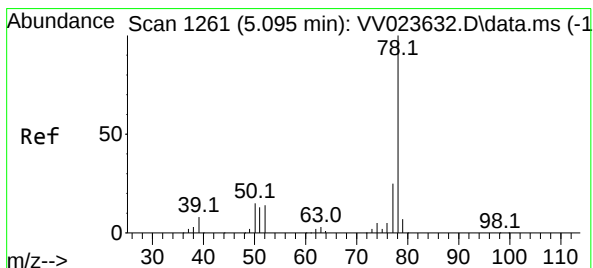
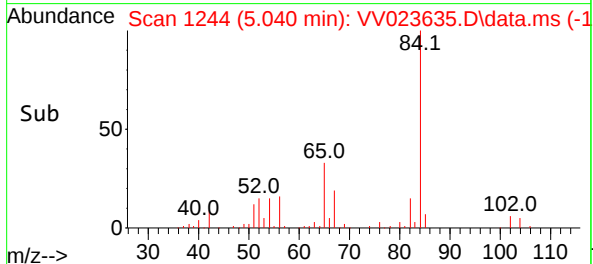
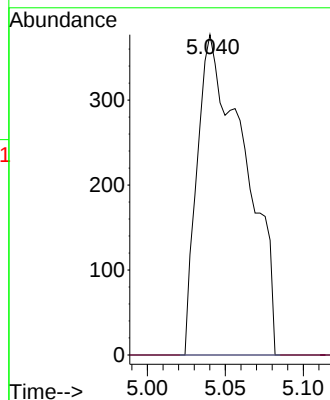
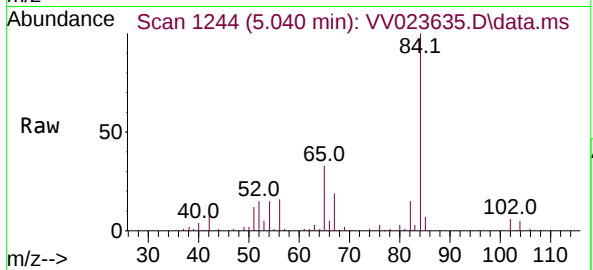
ClientSampleId :

Tgt Ion: 62 Resp: 800

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#33

Benzene

Concen: 0.006 ug/L

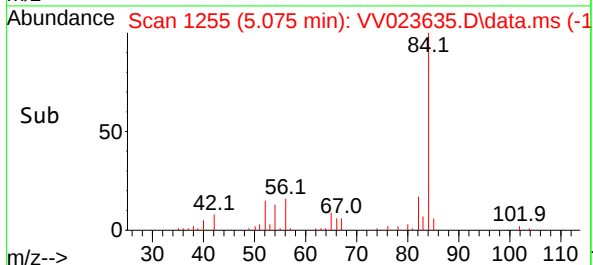
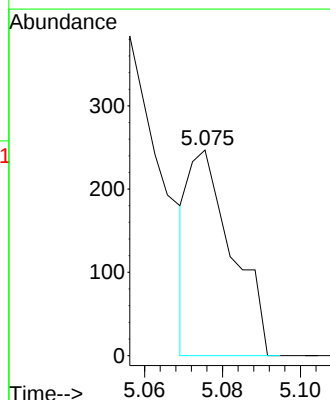
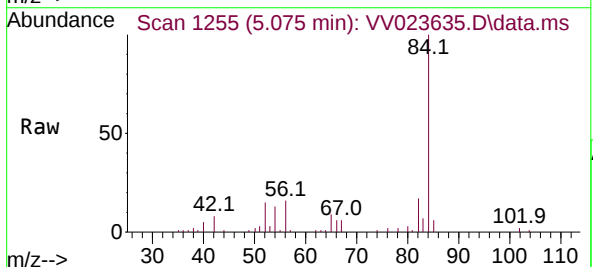
RT: 5.075 min Scan# 1255

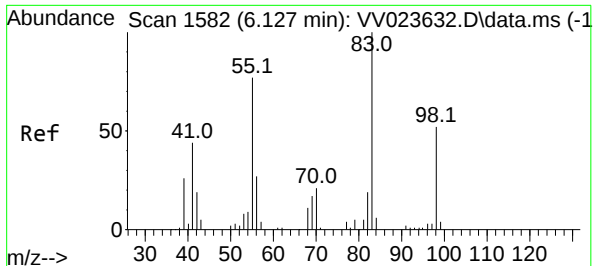
Delta R.T. -0.019 min

Lab File: VV023635.D

Acq: 19 Nov 2021 11:54

Tgt Ion: 78 Resp: 191





#35

Methylcyclohexane

Concen: 0.676 ug/L

RT: 6.072 min Scan# 1565

Delta R.T. -0.055 min

Lab File: VV023635.D

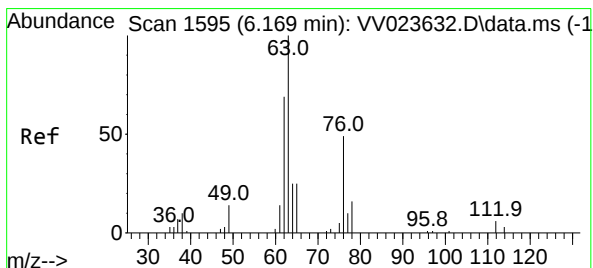
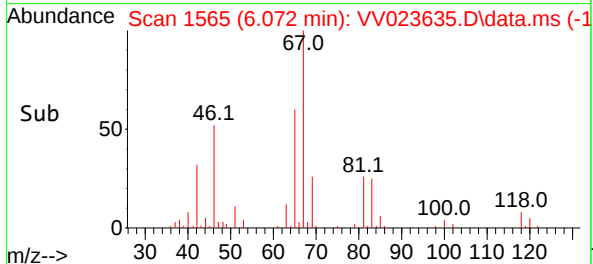
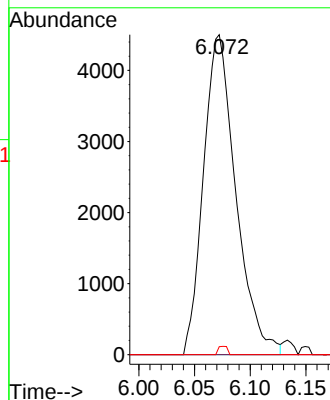
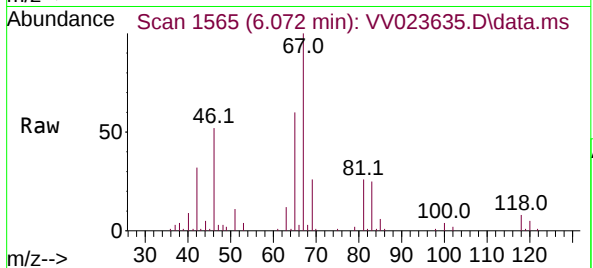
Acq: 19 Nov 2021 11:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	9118
Ion Ratio	Lower	Upper	
83	100		
55	0.0	62.8	94.2#
98	0.7	37.9	56.9#



#37

1,2-Dichloropropane

Concen: 0.571 ug/L

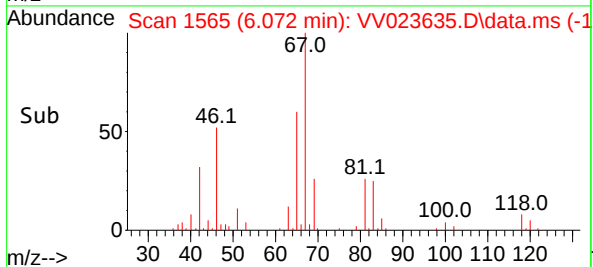
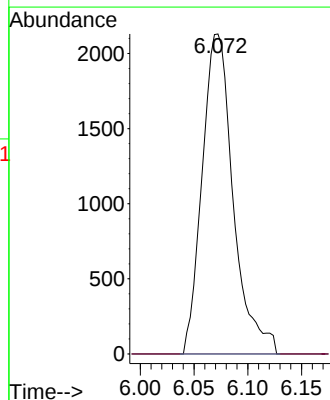
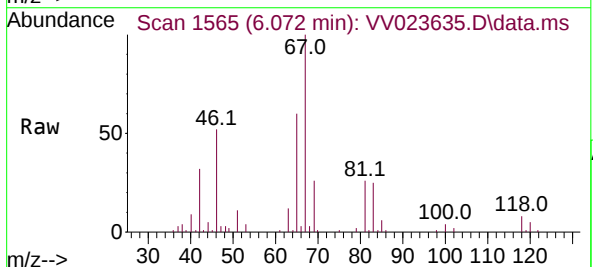
RT: 6.072 min Scan# 1565

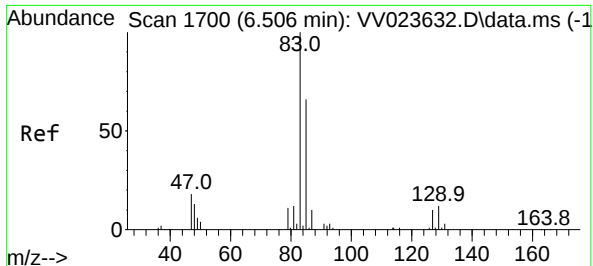
Delta R.T. -0.097 min

Lab File: VV023635.D

Acq: 19 Nov 2021 11:54

Tgt Ion:	63	Resp:	4284
Ion Ratio	Lower	Upper	
63	100		
112	0.0	4.6	6.8#

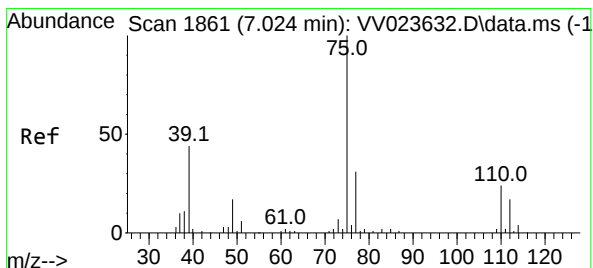
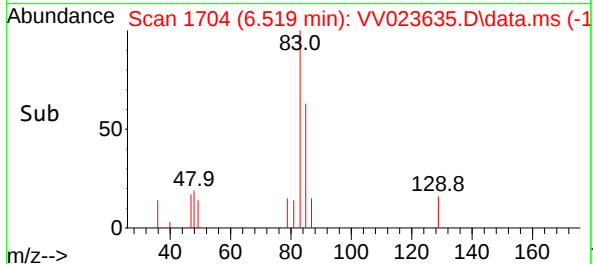
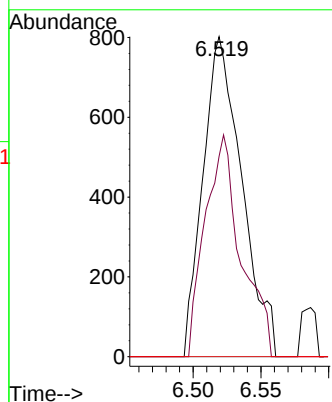
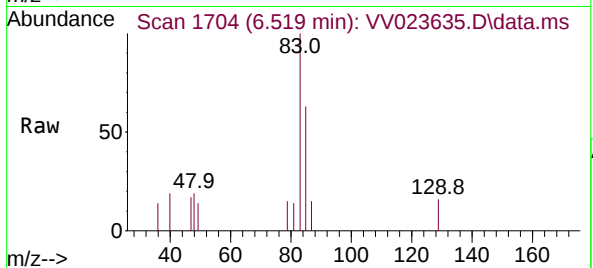




#38
Bromodichloromethane
Concen: 0.159 ug/L
RT: 6.519 min Scan# 11
Delta R.T. 0.013 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

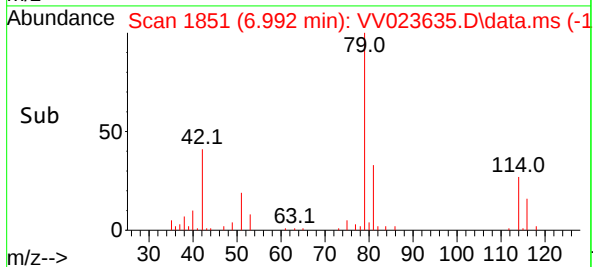
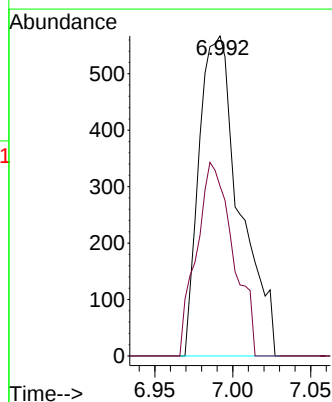
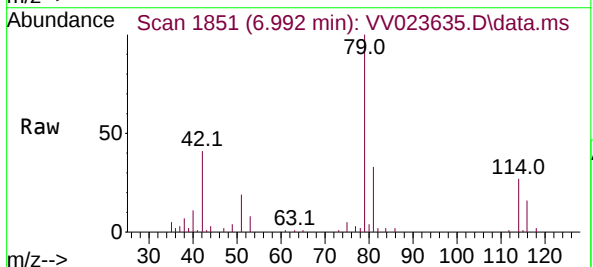
Instrument :
MSVOA_V
ClientSampleId :

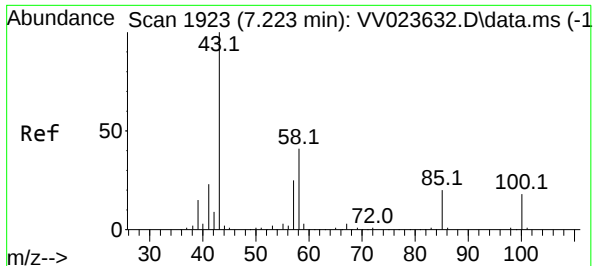
Tgt Ion: 83 Resp: 1597
Ion Ratio Lower Upper
83 100
85 62.6 46.1 85.7
127 0.0 7.2 10.8#



#39
cis-1,3-Dichloropropene
Concen: 0.095 ug/L
RT: 6.992 min Scan# 1851
Delta R.T. -0.032 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Tgt Ion: 75 Resp: 1025
Ion Ratio Lower Upper
75 100
77 53.1 21.6 40.2#





#40

4-Methyl-2-pentanone

Concen: 0.019 ug/L

RT: 7.284 min Scan# 1942

Delta R.T. 0.061 min

Lab File: VV023635.D

Acq: 19 Nov 2021 11:54

Instrument :

MSVOA_V

ClientSampleId :

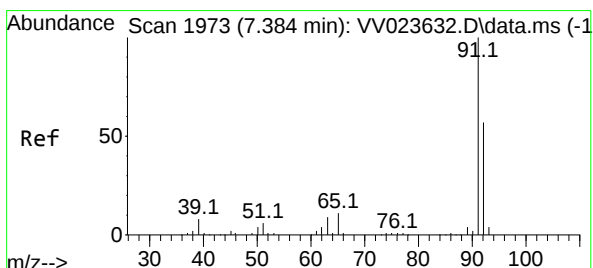
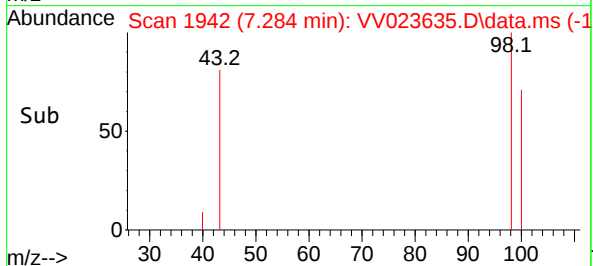
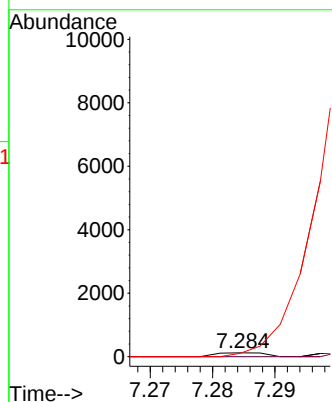
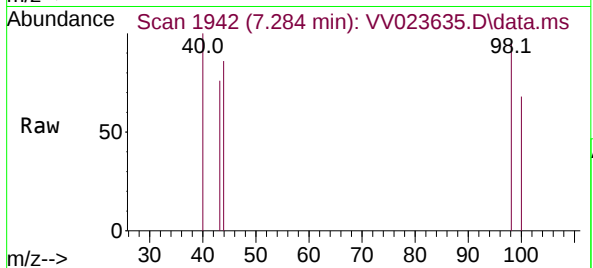
Tgt Ion: 43 Resp: 67

Ion Ratio Lower Upper

43 100

58 0.0 31.1 46.7#

100 0.0 12.6 19.0#



#42

Toluene

Concen: 0.060 ug/L

RT: 7.403 min Scan# 1979

Delta R.T. 0.019 min

Lab File: VV023635.D

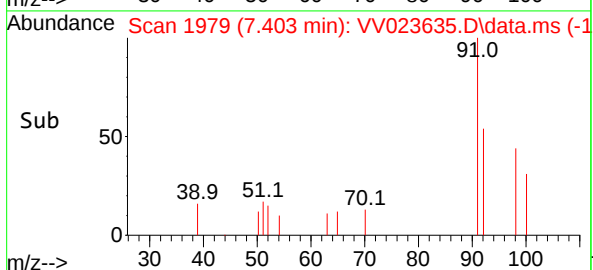
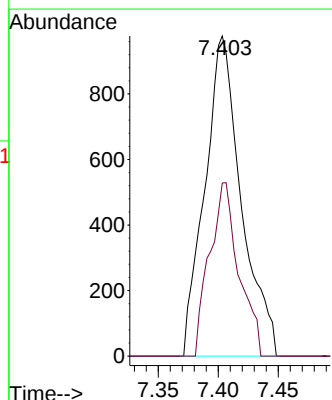
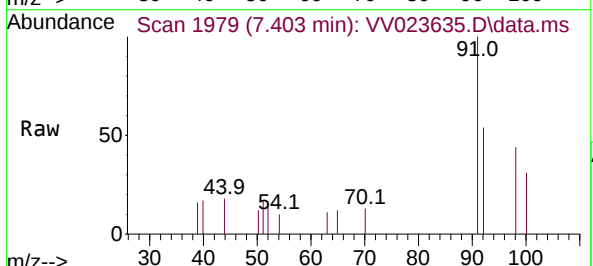
Acq: 19 Nov 2021 11:54

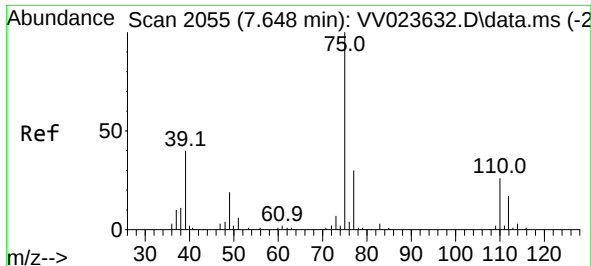
Tgt Ion: 91 Resp: 2061

Ion Ratio Lower Upper

91 100

92 54.0 39.3 72.9

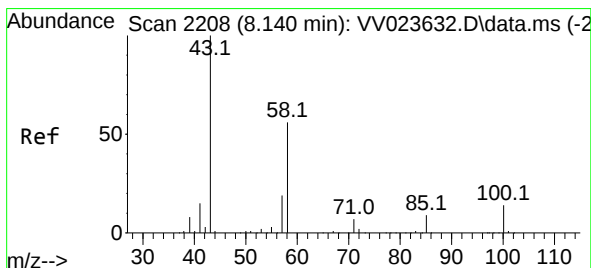
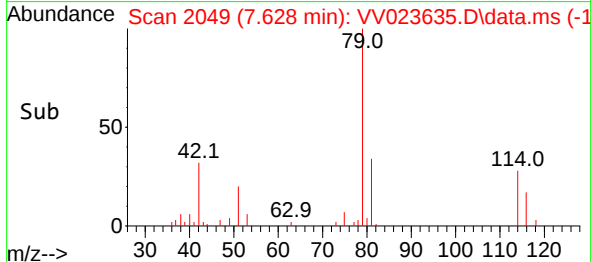
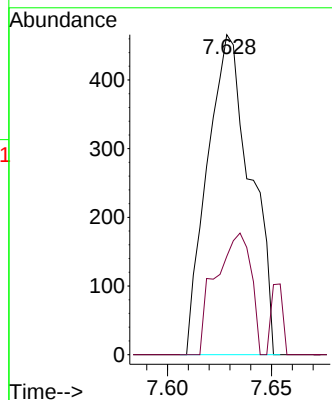
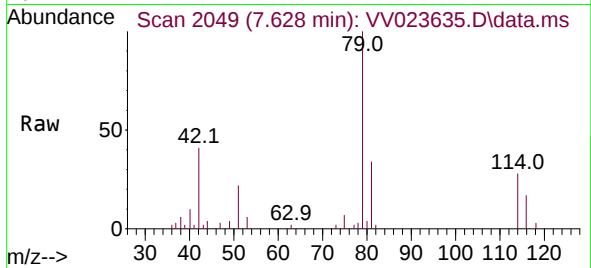




#44
trans-1,3-Dichloropropene
Concen: 0.075 ug/L
RT: 7.628 min Scan# 2049
Delta R.T. -0.019 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

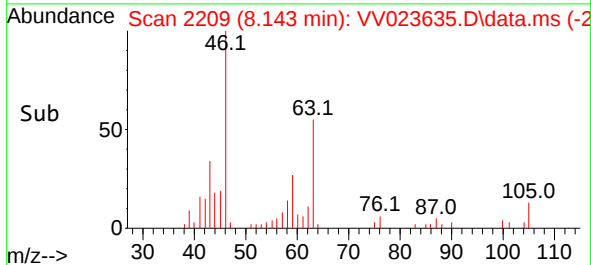
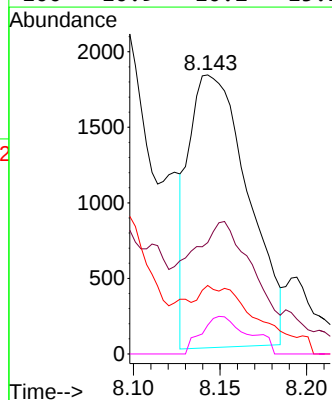
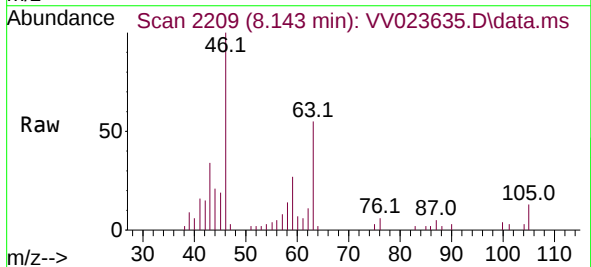
Instrument :
MSVOA_V
ClientSampleId :

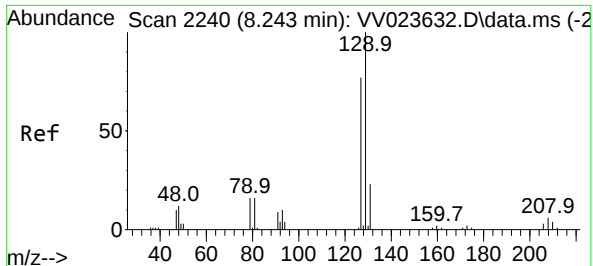
Tgt Ion: 75 Resp: 672
Ion Ratio Lower Upper
75 100
77 30.7 22.5 41.7



#48
2-Hexanone
Concen: 1.755 ug/L
RT: 8.143 min Scan# 2209
Delta R.T. 0.003 min
Lab File: VV023635.D
Acq: 19 Nov 2021 11:54

Tgt Ion: 43 Resp: 4280
Ion Ratio Lower Upper
43 100
58 37.6 43.7 65.5#
57 25.9 14.1 21.1#
100 10.9 10.2 15.2





#49

Dibromochloromethane

Concen: 0.010 ug/L

RT: 8.259 min Scan# 21

Delta R.T. 0.016 min

Lab File: VV023635.D

Acq: 19 Nov 2021 11:54

Instrument :

MSVOA_V

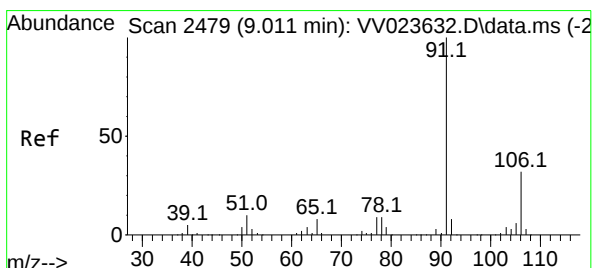
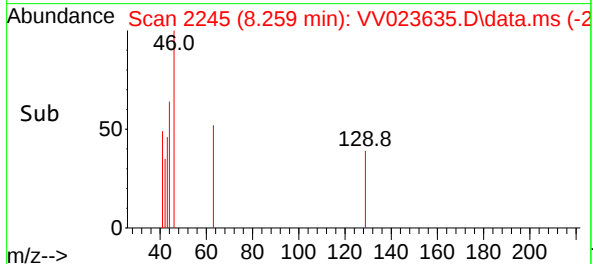
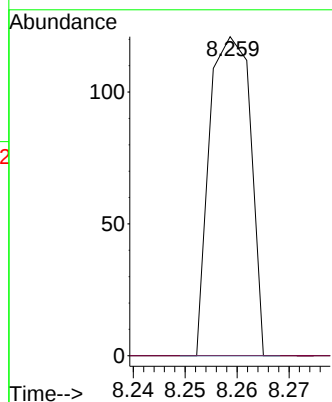
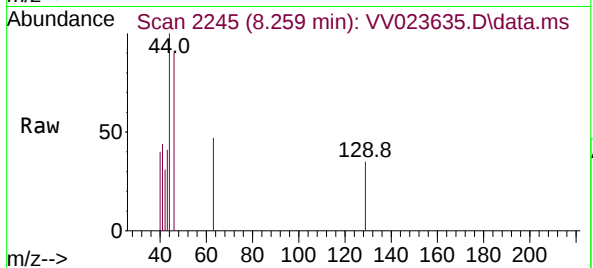
ClientSampleId :

Tgt Ion:129 Resp: 66

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#52

Ethylbenzene

Concen: 0.002 ug/L

RT: 9.027 min Scan# 2484

Delta R.T. 0.016 min

Lab File: VV023635.D

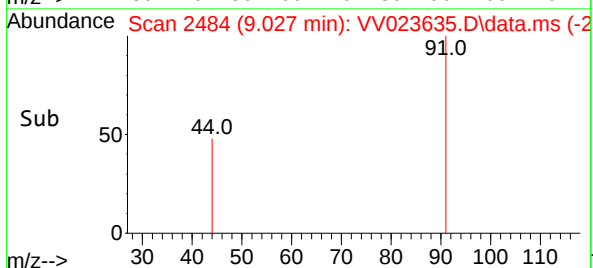
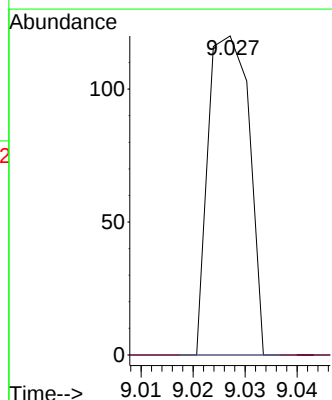
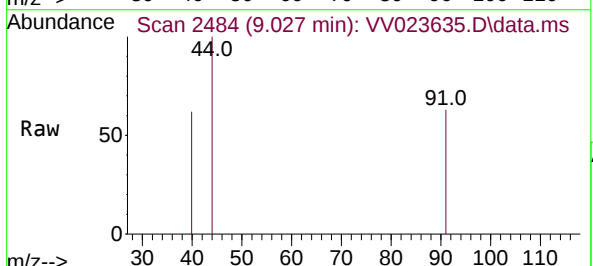
Acq: 19 Nov 2021 11:54

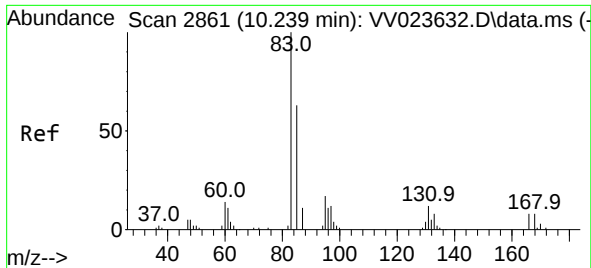
Tgt Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

106 0.0 22.5 41.9#

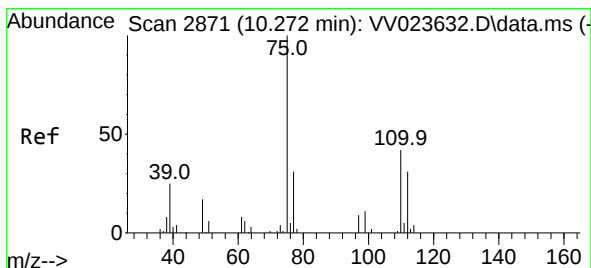
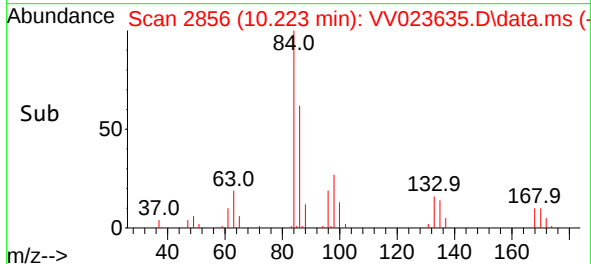
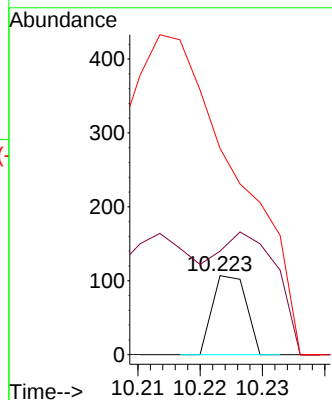
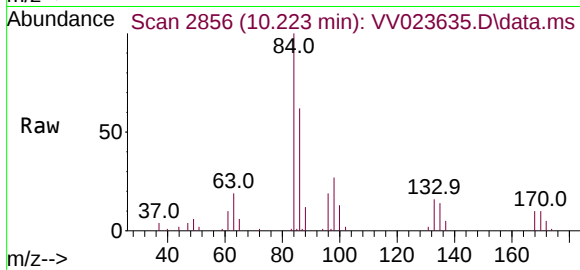




#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.007 ug/L
 RT: 10.223 min Scan# 21
 Delta R.T. -0.016 min
 Lab File: VV023635.D
 Acq: 19 Nov 2021 11:54

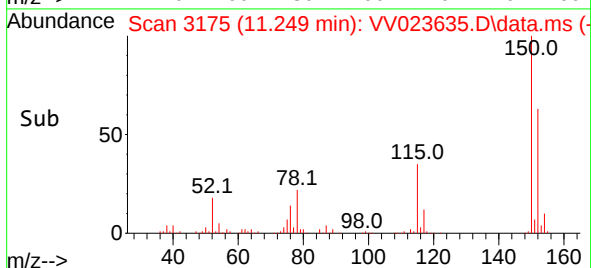
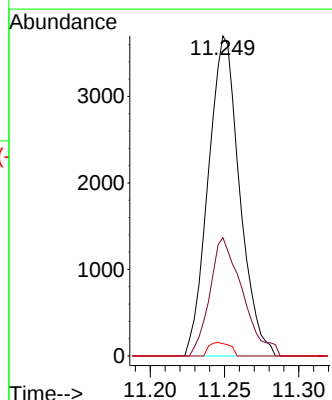
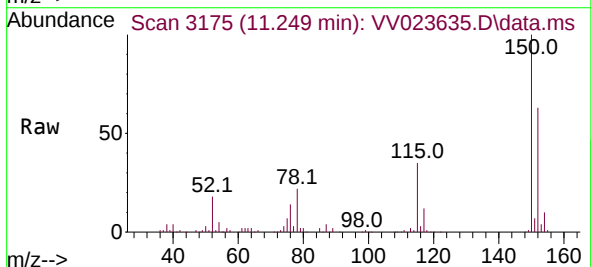
Instrument :
 MSVOA_V
 ClientSampleId :

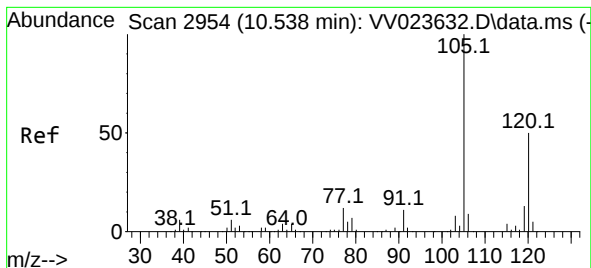
Tgt Ion: 83 Resp: 40
 Ion Ratio Lower Upper
 83 100
 85 130.8 45.1 83.9#
 131 260.7 7.8 11.6#



#61
 1,2,3-Trichloropropane
 Concen: 1.583 ug/L
 RT: 11.249 min Scan# 3175
 Delta R.T. 0.977 min
 Lab File: VV023635.D
 Acq: 19 Nov 2021 11:54

Tgt Ion: 75 Resp: 5428
 Ion Ratio Lower Upper
 75 100
 77 38.6 26.6 39.8
 110 2.8 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.002 ug/L

RT: 10.455 min Scan# 2954

Delta R.T. -0.084 min

Lab File: VV023635.D

Acq: 19 Nov 2021 11:54

Instrument :

MSVOA_V

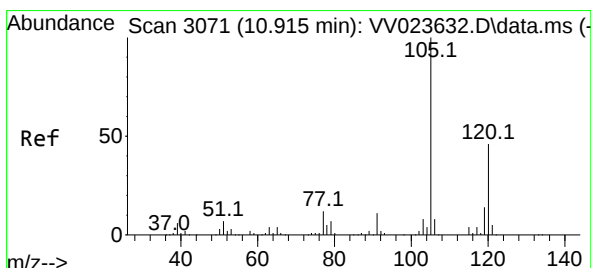
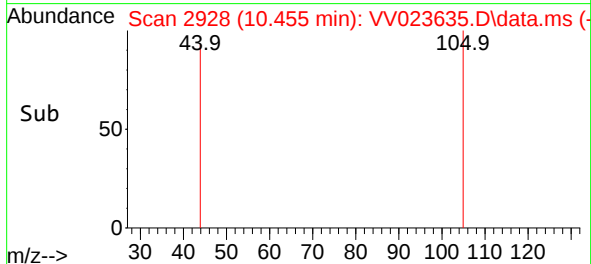
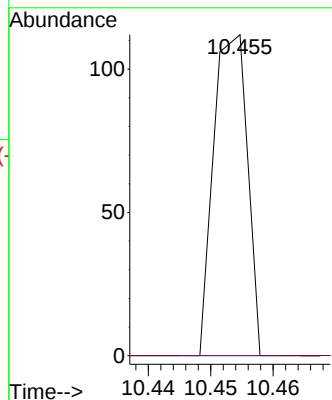
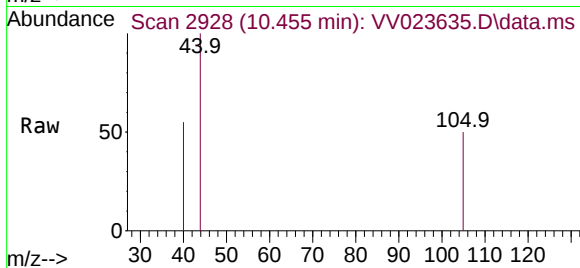
ClientSampleId :

Tgt Ion:105 Resp: 42

Ion Ratio Lower Upper

105 100

120 0.0 39.7 59.5#



#63

1,2,4-Trimethylbenzene

Concen: 0.007 ug/L

RT: 10.927 min Scan# 3075

Delta R.T. 0.013 min

Lab File: VV023635.D

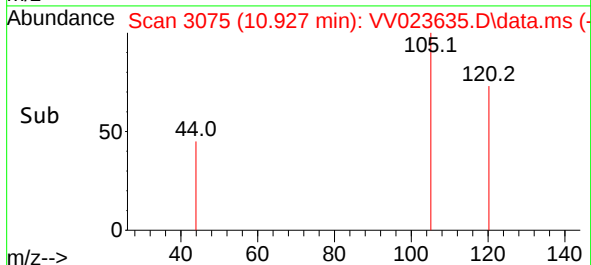
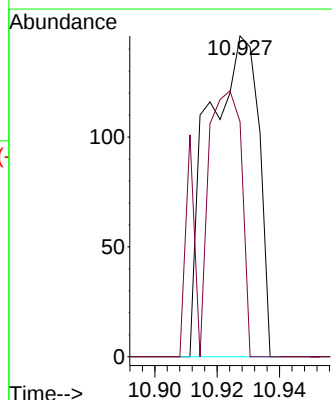
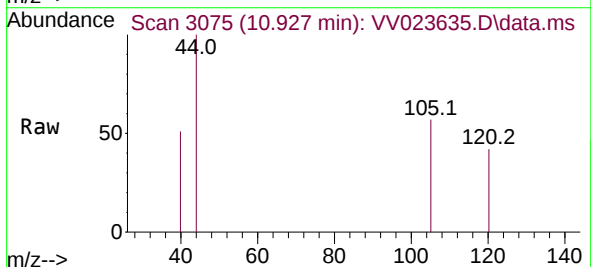
Acq: 19 Nov 2021 11:54

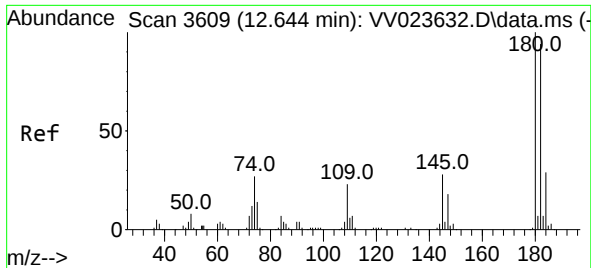
Tgt Ion:105 Resp: 163

Ion Ratio Lower Upper

105 100

120 65.0 37.4 56.2#





#69

1,3,5-Trichlorobenzene

Concen: 0.002 ug/L

RT: 12.651 min Scan# 3

Delta R.T. 0.006 min

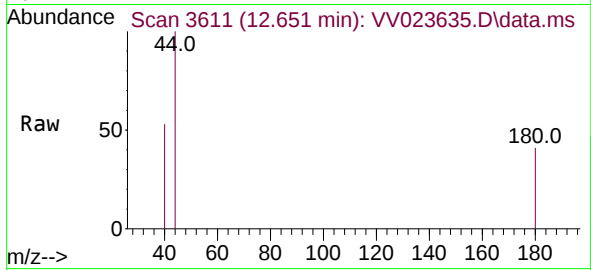
Lab File: VV023635.D

Acq: 19 Nov 2021 11:54

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 20

Ion Ratio Lower Upper

180 100

182 0.0 74.9 112.3#

184 0.0 23.8 35.8#

145 0.0 23.2 34.8#

