

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW031822\
 Data File : VW025101.D
 Acq On : 18 Mar 2022 16:32
 Operator : SY/MD
 Sample : N2018-05
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0QA7

Quant Time: Mar 19 00:56:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR031522WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Mar 19 00:53:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	169688	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	160009	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	79363	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	55760	4.162	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.200%
7) Chloroethane-d5	1.568	69	44402	4.526	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.600%
11) 1,1-Dichloroethene-d2	2.108	63	71290	3.293	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.800%
20) 2-Butanone-d5	3.912	46	80994	50.026	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.060%
24) Chloroform-d	4.352	84	96702	4.352	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.000%
26) 1,2-Dichloroethane-d4	5.037	65	42486	4.574	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.400%
32) Benzene-d6	5.050	84	207305	4.466	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.400%
36) 1,2-Dichloropropane-d6	6.069	67	60372	4.523	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.400%
41) Toluene-d8	7.317	98	180517	4.267	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.400%
43) trans-1,3-Dichloroprop...	7.625	79	17140	3.684	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.600%
46) 2-Hexanone-d5	8.092	63	81551	51.383	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.760%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	39053	4.974	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.400%
66) 1,2-Dichlorobenzene-d4	11.622	152	61889	4.606	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.243	50	814	0.058	ug/L	93
5) Vinyl chloride	1.311	62	835	0.056	ug/L #	1
8) Chloroethane	1.616	64	5751	0.636	ug/L #	50
14) Carbon disulfide	2.298	76	2840	0.073	ug/L	97
16) Methylene chloride	2.510	84	16065	1.226	ug/L	99
18) trans-1,2-Dichloroethene	2.767	96	705	0.054	ug/L	80
22) cis-1,2-Dichloroethene	3.915	96	14512	1.105	ug/L	93
25) Chloroform	4.381	83	12276	0.533	ug/L	94
27) 1,2-Dichloroethane	5.050	62	971	0.085	ug/L #	71
33) Benzene	5.111	78	7575	0.146	ug/L	100
34) Trichloroethene	5.921	95	14638	1.056	ug/L	97
35) Methylcyclohexane	6.130	83	1891	0.086	ug/L #	83
37) 1,2-Dichloropropane	6.072	63	6308	0.527	ug/L #	86
39) cis-1,3-Dichloropropene	6.992	75	1264	0.076	ug/L #	66
42) Toluene	7.391	91	52931	0.972	ug/L	96
45) 1,1,2-Trichloroethane	7.796	97	501	0.063	ug/L #	15
47) Tetrachloroethene	7.979	164	475	0.049	ug/L	77
49) Dibromochloromethane	7.986	129	488	0.055	ug/L #	10
52) Ethylbenzene	9.014	91	21589	0.375	ug/L	100

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

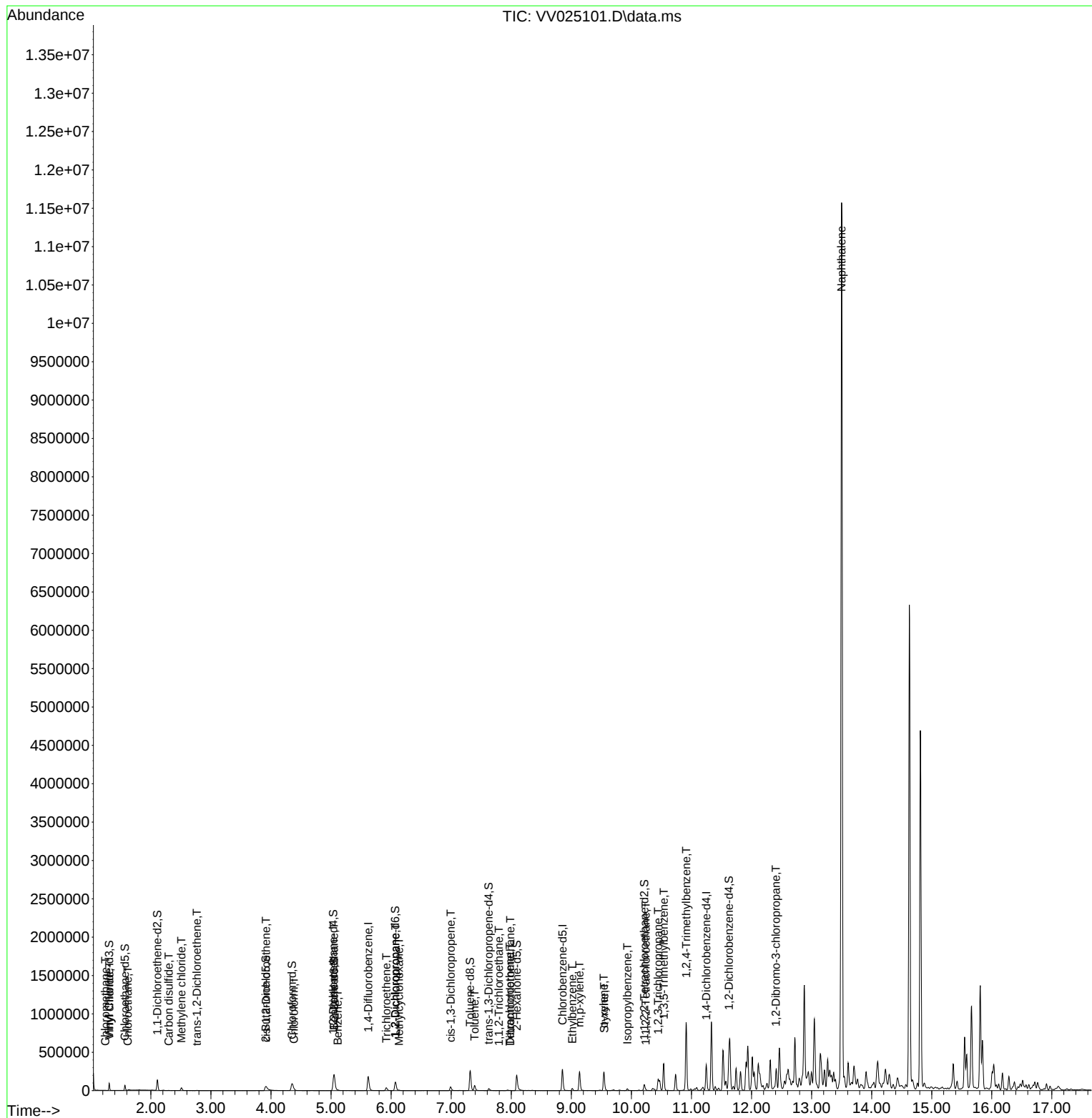
53) m,p-xylene	9.137	106	70661	3.184	ug/L	98
54) o-xylene	9.542	106	66629	3.140	ug/L	94
55) Styrene	9.551	104	4112	0.119	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.239	83	792	0.101	ug/L #	26
60) Isopropylbenzene	9.934	105	16946	0.283	ug/L #	68
61) 1,2,3-Trichloropropane	10.448	75	710	0.106	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.538	105	187771	6.914	ug/L	99
63) 1,2,4-Trimethylbenzene	10.911	105	484715	10.078	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.407	75	811	0.709	ug/L #	1
71) Naphthalene	13.500	128	8825307	371.962	ug/L	97

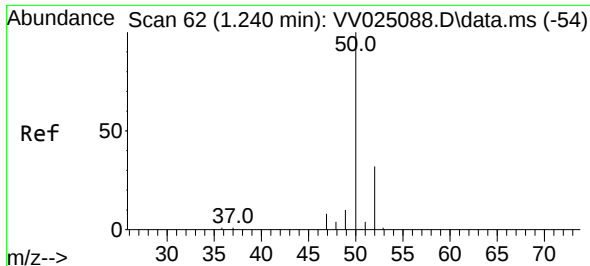
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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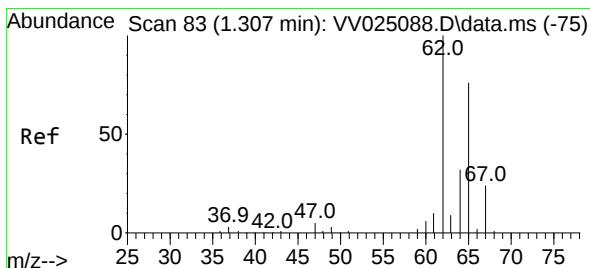
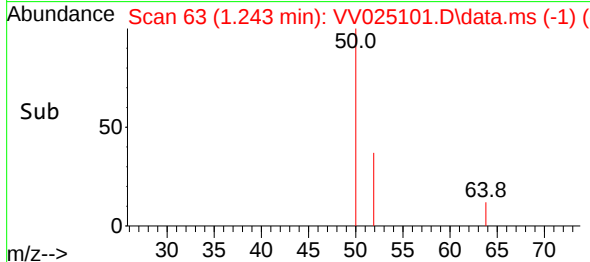
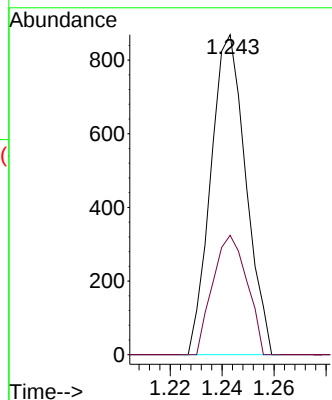
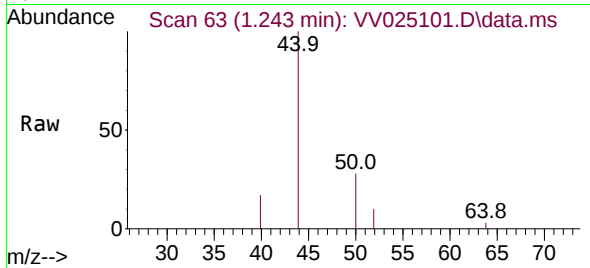




#3
Chloromethane
Concen: 0.058 ug/L
RT: 1.243 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

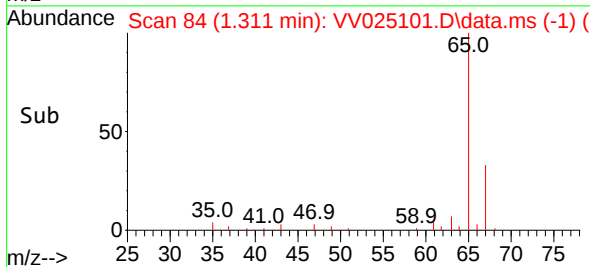
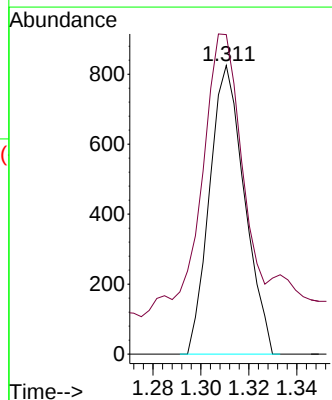
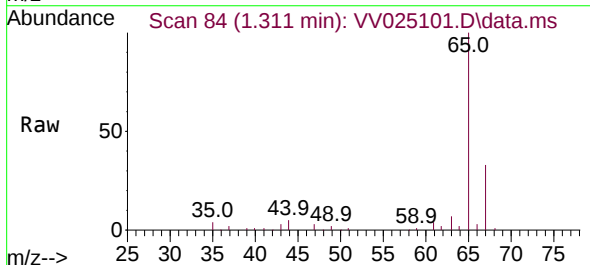
Instrument :
MSVOA_V
ClientSampleId :
C0QA7

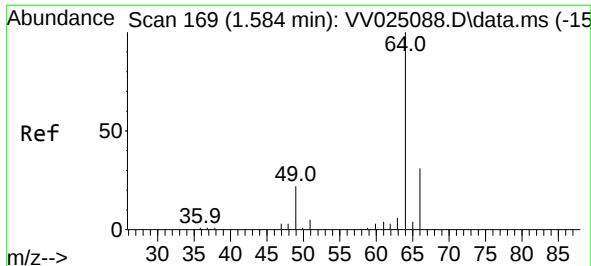
Tgt Ion: 50 Resp: 814
Ion Ratio Lower Upper
50 100
52 37.3 23.2 43.2



#5
Vinyl chloride
Concen: 0.056 ug/L
RT: 1.311 min Scan# 84
Delta R.T. 0.003 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

Tgt Ion: 62 Resp: 835
Ion Ratio Lower Upper
62 100
64 110.7 23.4 43.4#





#8

Chloroethane

Concen: 0.636 ug/L

RT: 1.616 min Scan# 11

Delta R.T. 0.032 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

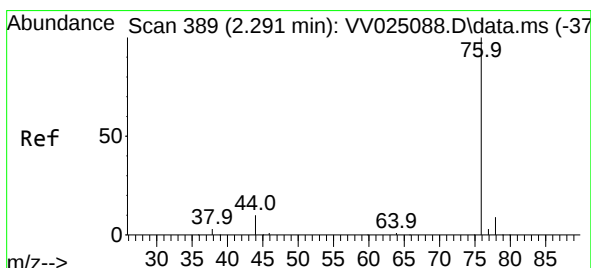
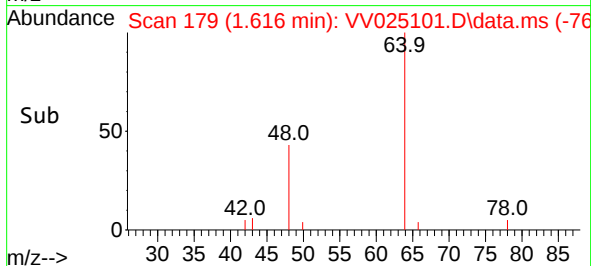
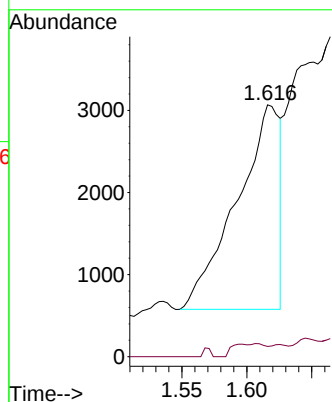
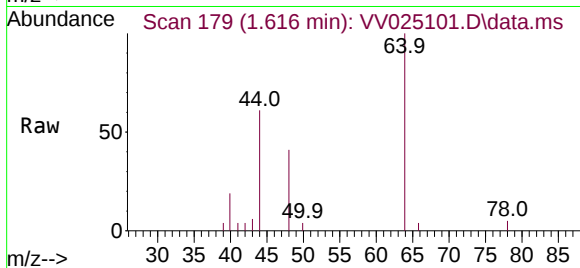
C0QA7

Tgt Ion: 64 Resp: 5751

Ion Ratio Lower Upper

64 100

66 4.1 22.5 41.7#



#14

Carbon disulfide

Concen: 0.073 ug/L

RT: 2.298 min Scan# 391

Delta R.T. 0.007 min

Lab File: VV025101.D

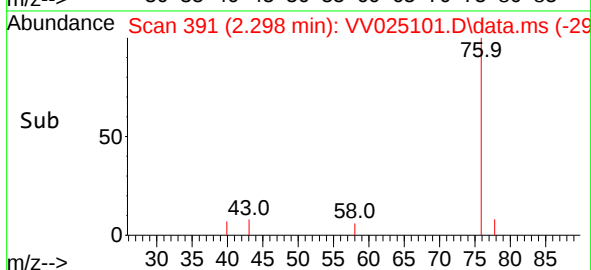
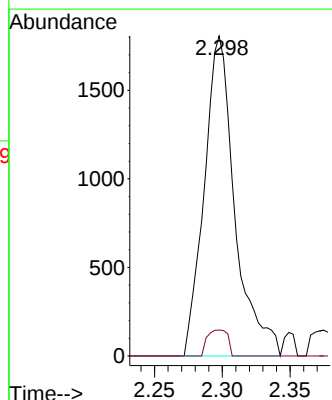
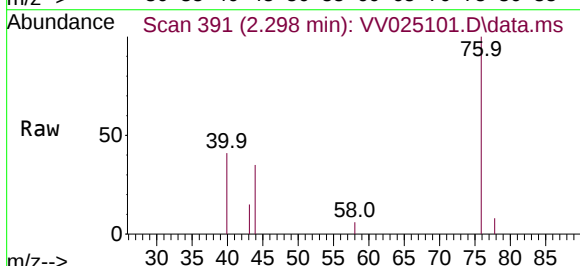
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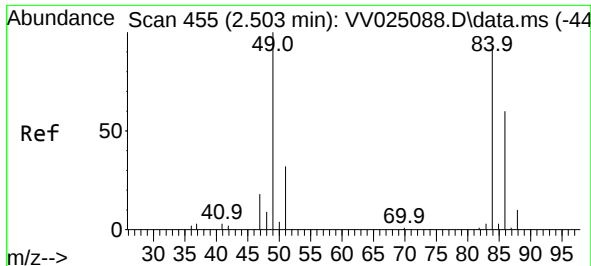
Tgt Ion: 76 Resp: 2840

Ion Ratio Lower Upper

76 100

78 8.1 7.4 11.0

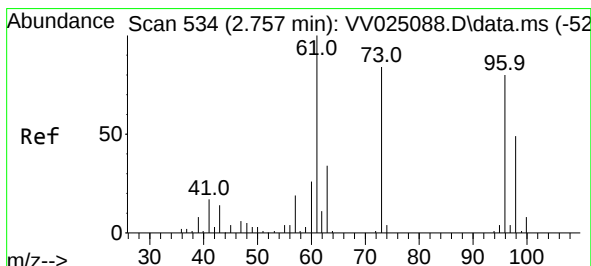
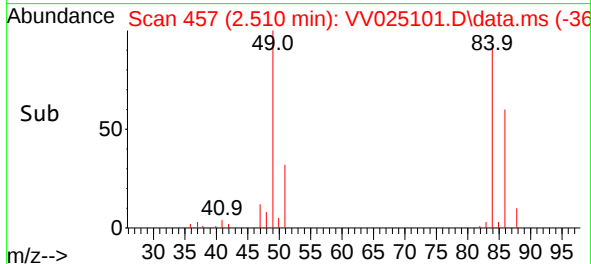
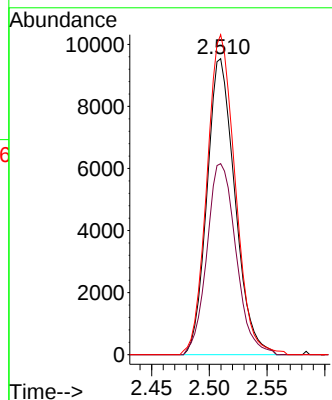
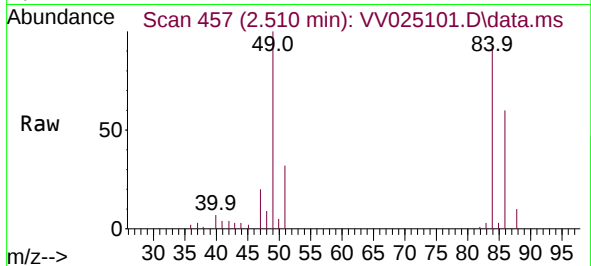




#16
Methylene chloride
Concen: 1.226 ug/L
RT: 2.510 min Scan# 416
Delta R.T. 0.007 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

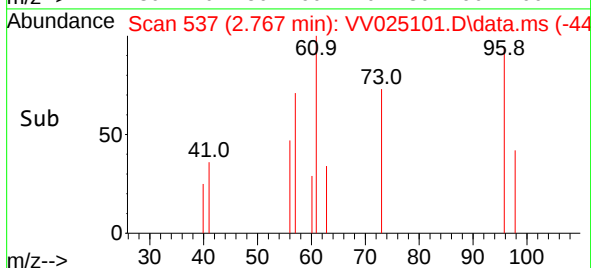
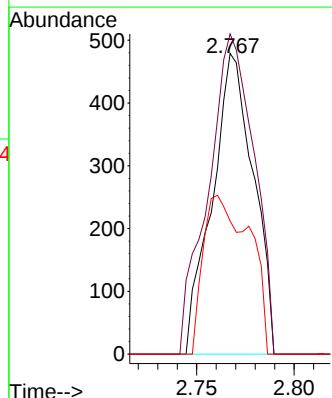
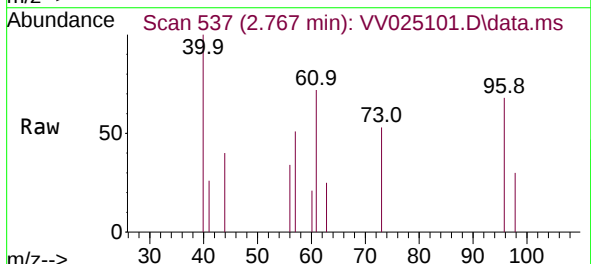
Instrument :
MSVOA_V
ClientSampleId :
C0QA7

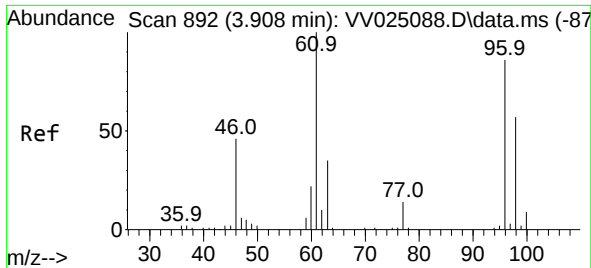
Tgt Ion: 84 Resp: 16065
Ion Ratio Lower Upper
84 100
86 64.5 45.5 84.5
49 108.1 75.0 139.2



#18
trans-1,2-Dichloroethene
Concen: 0.054 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.010 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

Tgt Ion: 96 Resp: 705
Ion Ratio Lower Upper
96 100
61 106.5 89.2 165.6
98 44.3 43.9 81.5

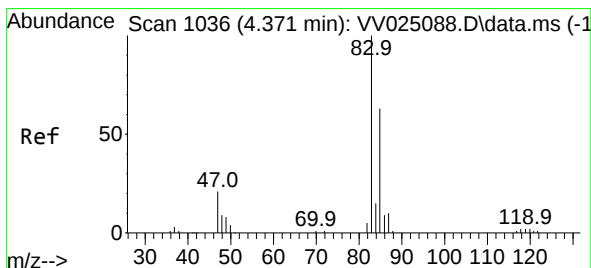
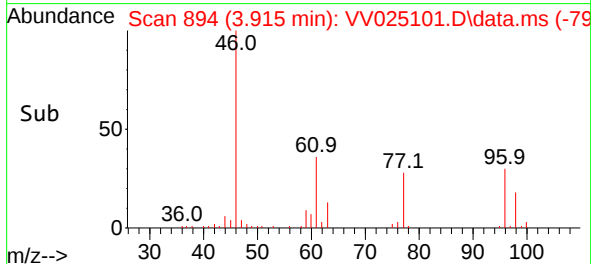
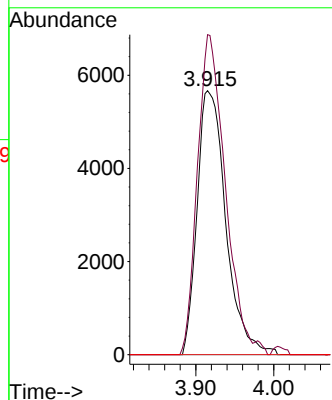
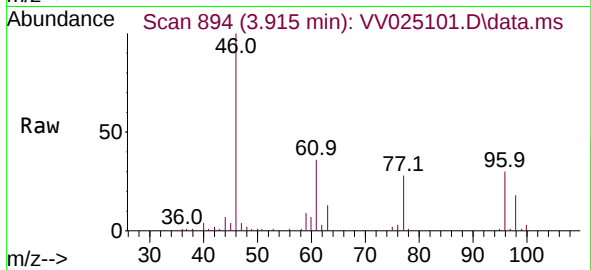




#22
 cis-1,2-Dichloroethene
 Concen: 1.105 ug/L
 RT: 3.915 min Scan# 894
 Delta R.T. 0.007 min
 Lab File: VV025101.D
 Acq: 18 Mar 2022 16:32

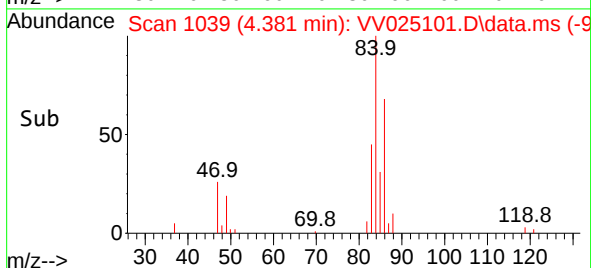
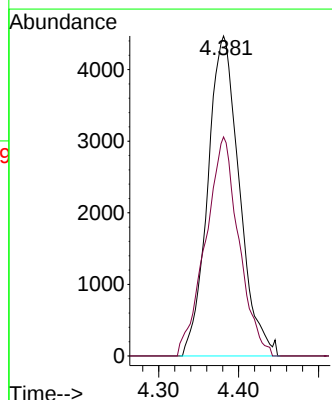
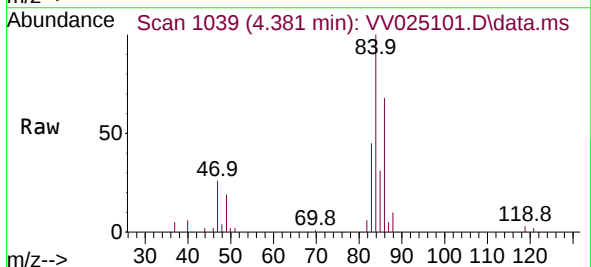
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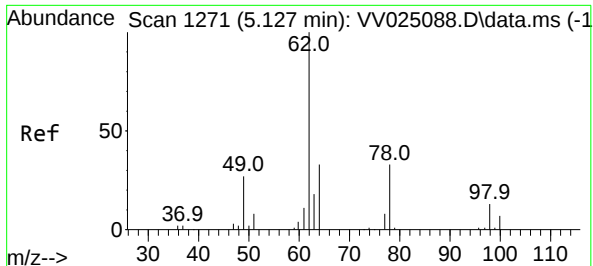
Tgt Ion: 96 Resp: 14512
 Ion Ratio Lower Upper
 96 100
 61 121.2 79.7 147.9
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 0.533 ug/L
 RT: 4.381 min Scan# 1039
 Delta R.T. 0.010 min
 Lab File: VV025101.D
 Acq: 18 Mar 2022 16:32

Tgt Ion: 83 Resp: 12276
 Ion Ratio Lower Upper
 83 100
 85 68.4 44.5 82.7





#27

1,2-Dichloroethane

Concen: 0.085 ug/L

RT: 5.050 min Scan# 11

Delta R.T. -0.077 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

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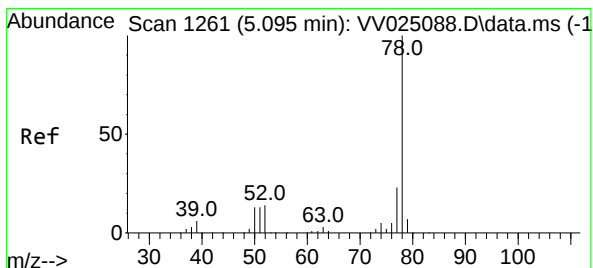
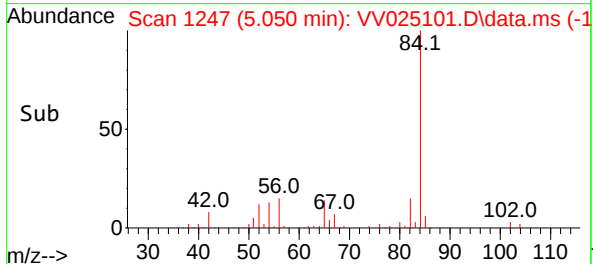
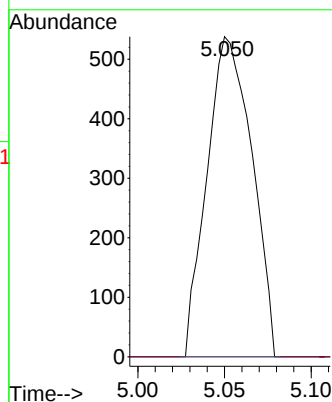
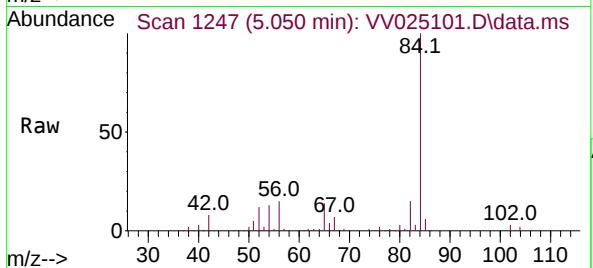
C0QA7

Tgt Ion: 62 Resp: 971

Ion Ratio Lower Upper

62 100

98 0.0 9.0 13.4#



#33

Benzene

Concen: 0.146 ug/L

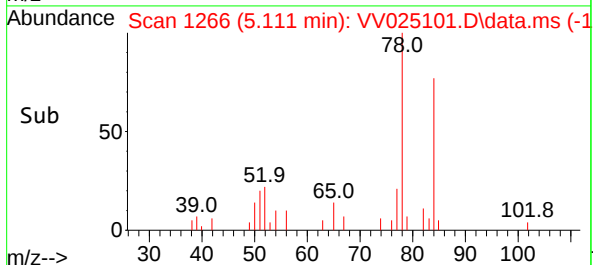
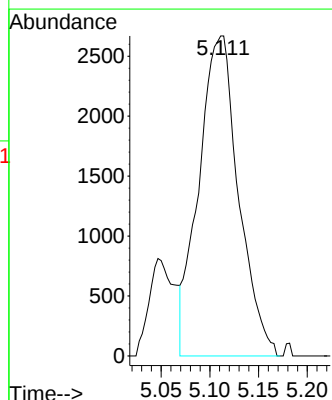
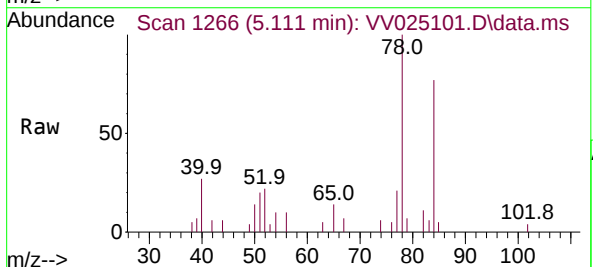
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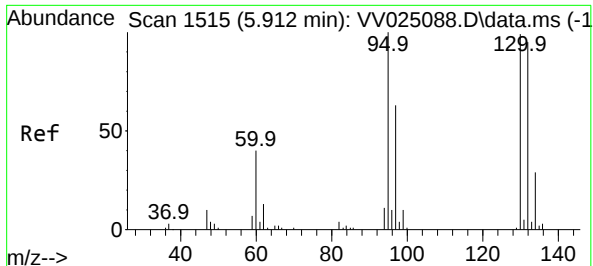
Delta R.T. 0.016 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Tgt Ion: 78 Resp: 7575





#34

Trichloroethene

Concen: 1.056 ug/L

RT: 5.921 min Scan# 1

Delta R.T. 0.010 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

C0QA7

Tgt Ion: 95 Resp: 14638

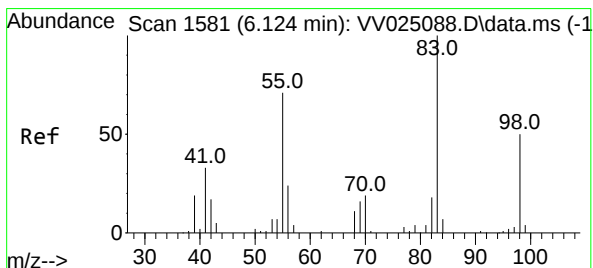
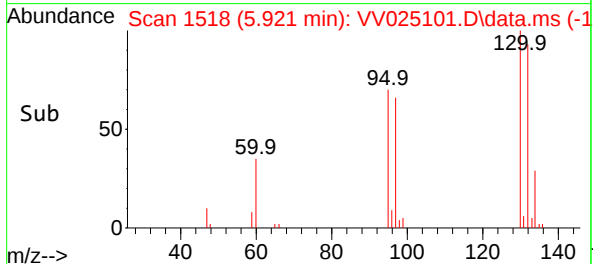
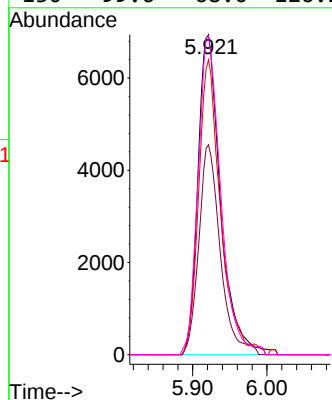
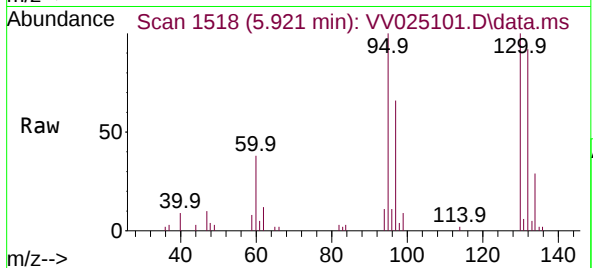
Ion Ratio Lower Upper

95 100

97 65.6 44.5 82.7

132 92.2 66.5 123.5

130 99.6 68.0 126.2



#35

Methylcyclohexane

Concen: 0.086 ug/L

RT: 6.130 min Scan# 1583

Delta R.T. 0.007 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

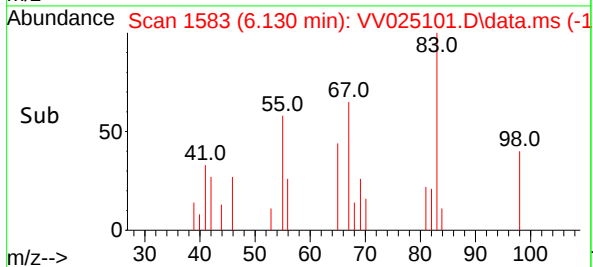
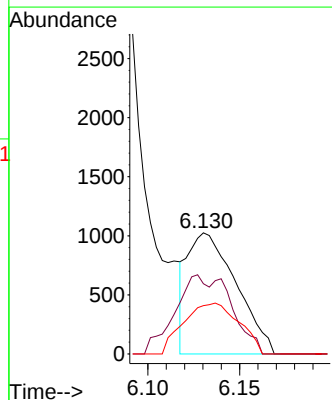
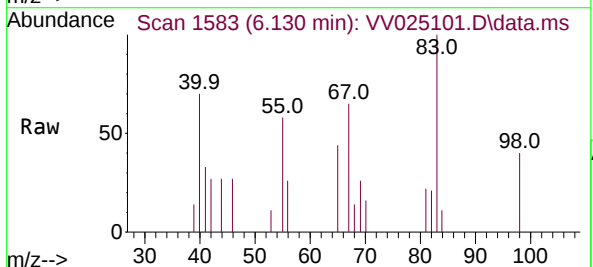
Tgt Ion: 83 Resp: 1891

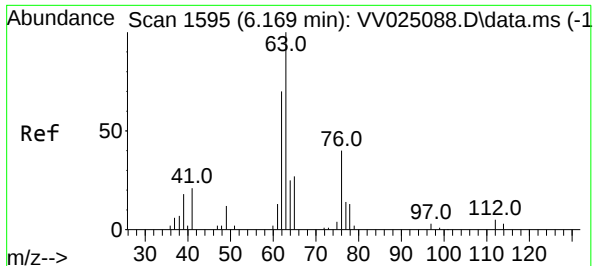
Ion Ratio Lower Upper

83 100

55 45.8 55.4 83.0#

98 47.9 38.4 57.6





#37

1,2-Dichloropropane

Concen: 0.527 ug/L

RT: 6.072 min Scan# 11

Delta R.T. -0.096 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

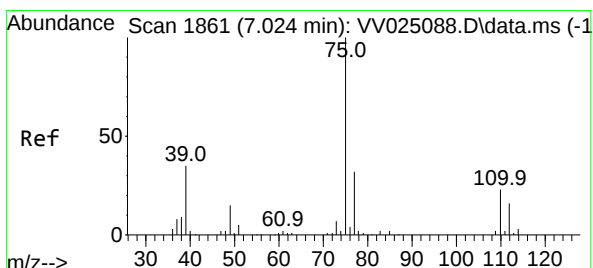
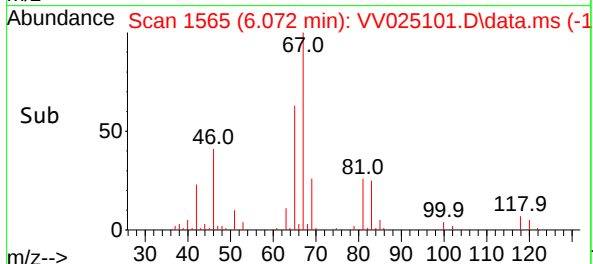
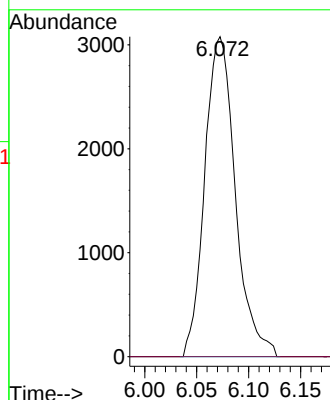
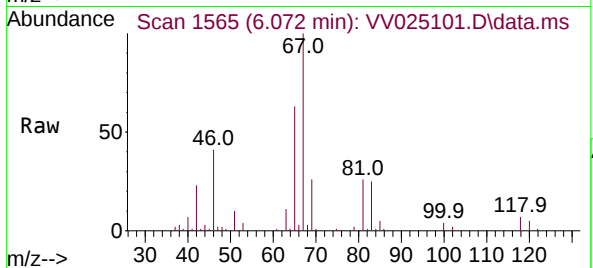
C0QA7

Tgt Ion: 63 Resp: 6308

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.076 ug/L

RT: 6.992 min Scan# 1851

Delta R.T. -0.032 min

Lab File: VV025101.D

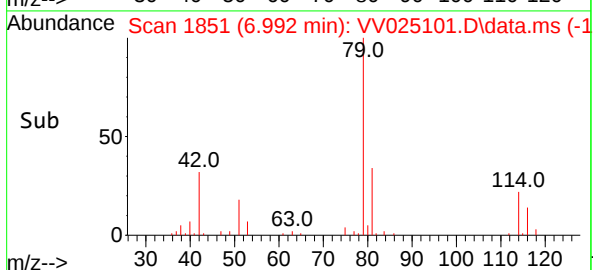
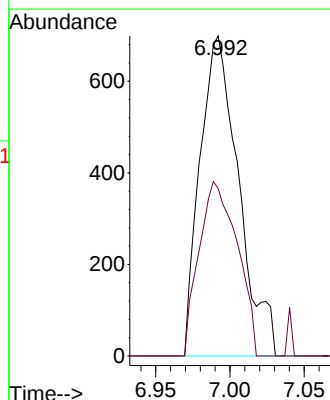
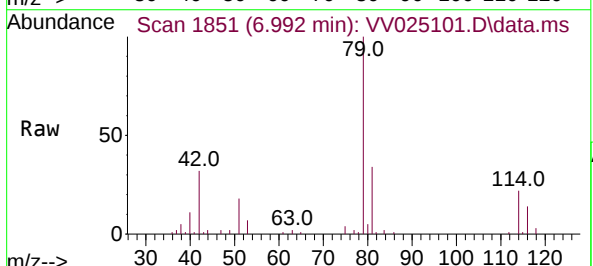
Acq: 18 Mar 2022 16:32

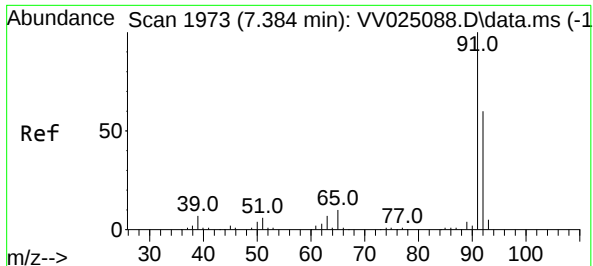
Tgt Ion: 75 Resp: 1264

Ion Ratio Lower Upper

75 100

77 52.4 23.0 42.8#





#42

Toluene

Concen: 0.972 ug/L

RT: 7.391 min Scan# 1973

Delta R.T. 0.007 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

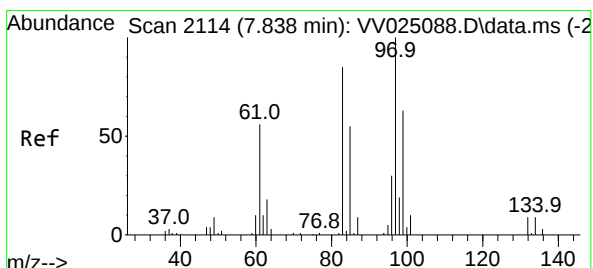
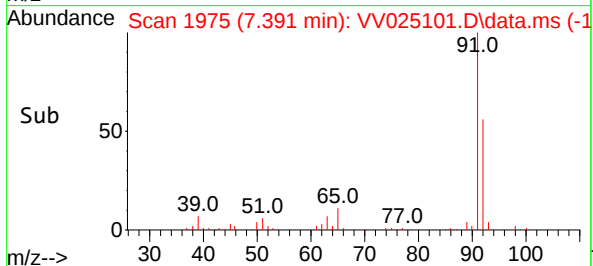
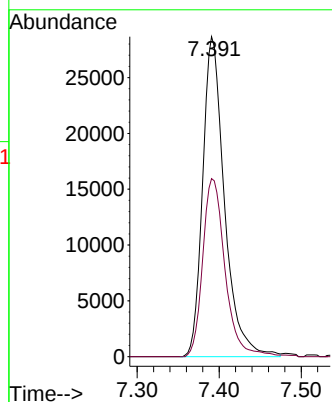
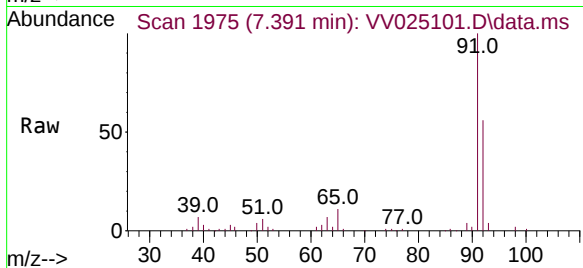
C0QA7

Tgt Ion: 91 Resp: 52931

Ion Ratio Lower Upper

91 100

92 55.7 41.2 76.4



#45

1,1,2-Trichloroethane

Concen: 0.063 ug/L

RT: 7.796 min Scan# 2101

Delta R.T. -0.042 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Tgt Ion: 97 Resp: 501

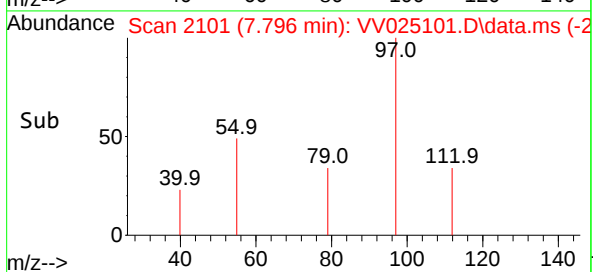
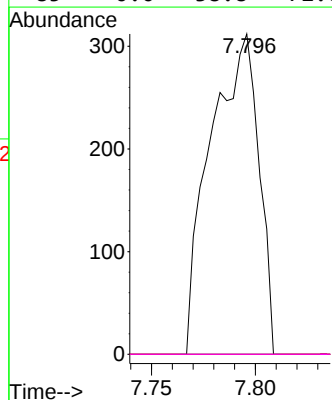
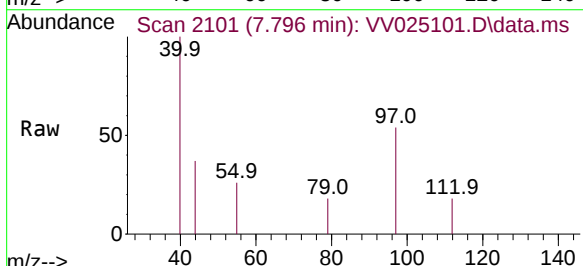
Ion Ratio Lower Upper

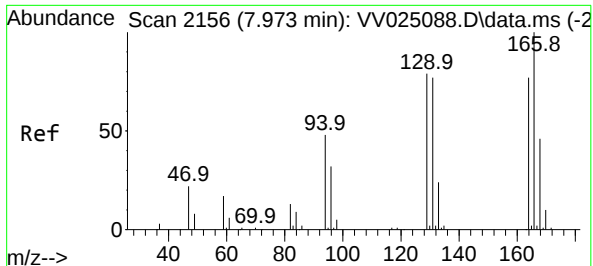
97 100

99 0.0 43.7 81.1#

83 0.0 58.9 109.3#

85 0.0 38.8 72.0#





#47

Tetrachloroethene

Concen: 0.049 ug/L

RT: 7.979 min Scan# 2156

Delta R.T. 0.007 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

C0QA7

Tgt Ion:164 Resp: 475

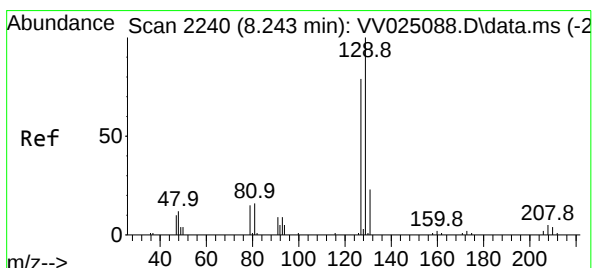
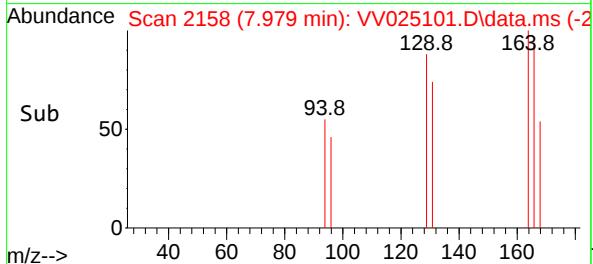
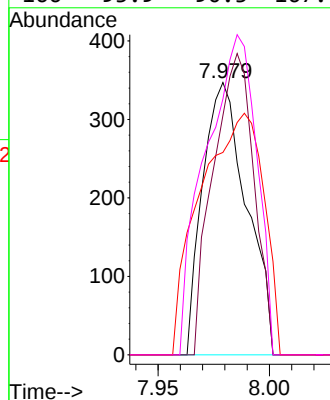
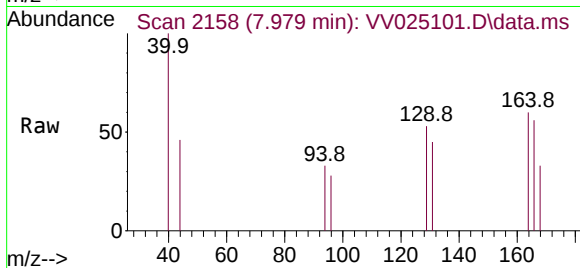
Ion Ratio Lower Upper

164 100

129 87.9 70.3 130.7

131 74.4 69.4 129.0

166 93.9 90.3 167.7



#49

Dibromochloromethane

Concen: 0.055 ug/L

RT: 7.986 min Scan# 2160

Delta R.T. -0.257 min

Lab File: VV025101.D

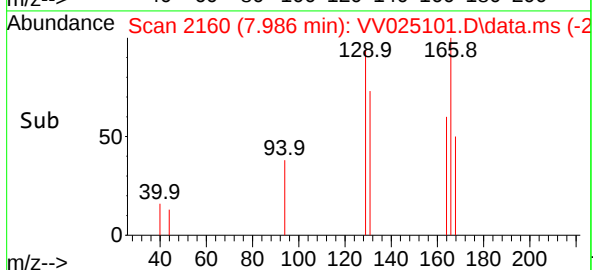
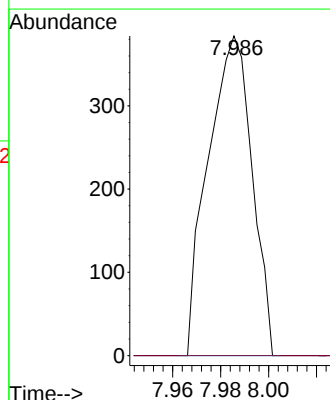
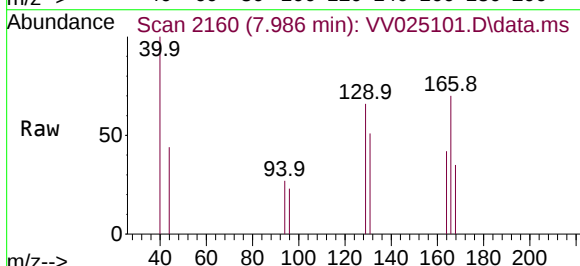
Acq: 18 Mar 2022 16:32

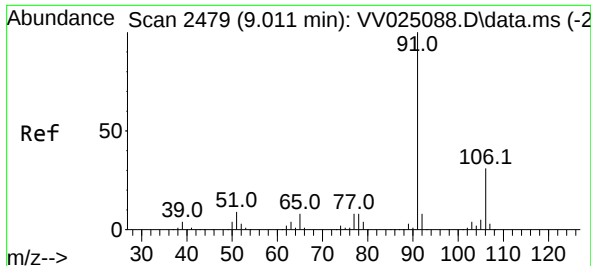
Tgt Ion:129 Resp: 488

Ion Ratio Lower Upper

129 100

127 0.0 54.9 102.1#

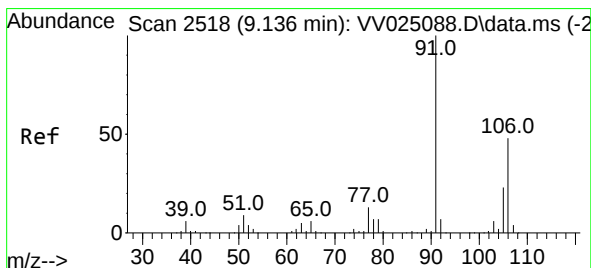
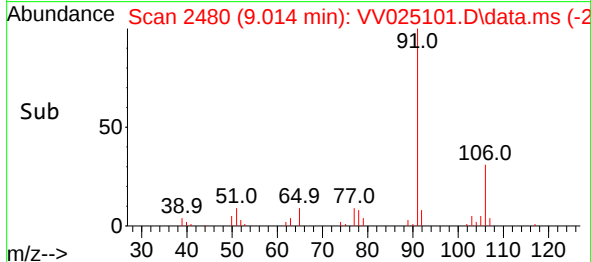
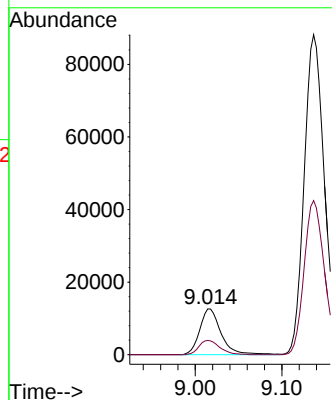
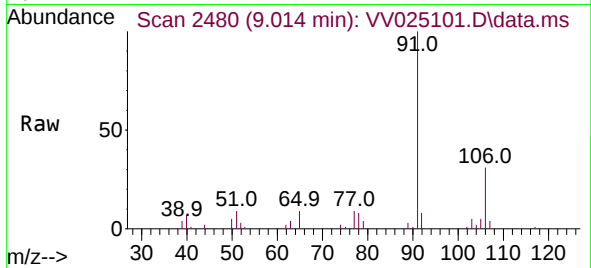




#52
Ethylbenzene
Concen: 0.375 ug/L
RT: 9.014 min Scan# 2479
Delta R.T. 0.003 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

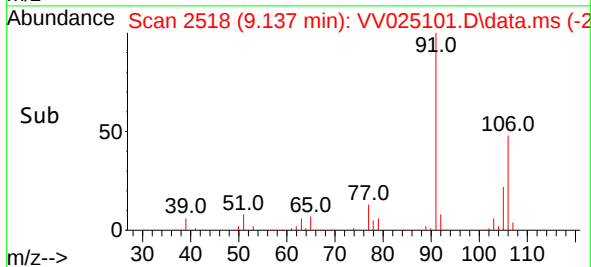
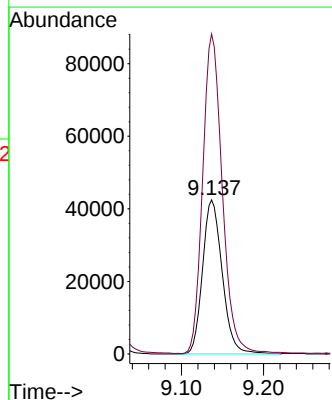
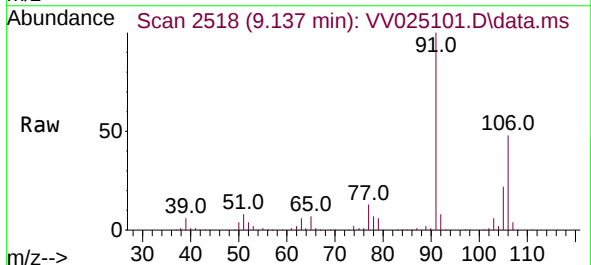
Instrument :
MSVOA_V
ClientSampleId :
C0QA7

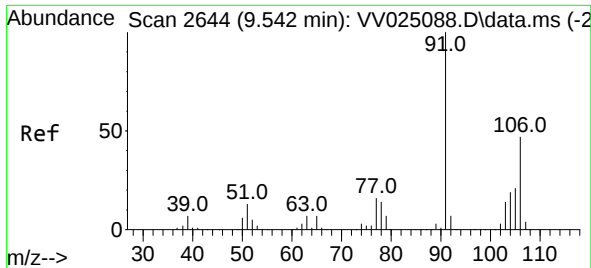
Tgt Ion: 91 Resp: 21589
Ion Ratio Lower Upper
91 100
106 31.2 21.9 40.7



#53
m,p-xylene
Concen: 3.184 ug/L
RT: 9.137 min Scan# 2518
Delta R.T. 0.000 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

Tgt Ion: 106 Resp: 70661
Ion Ratio Lower Upper
106 100
91 207.6 143.4 266.4

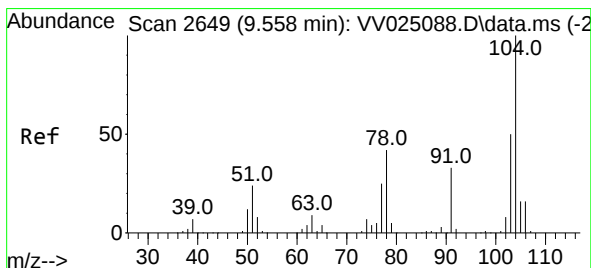
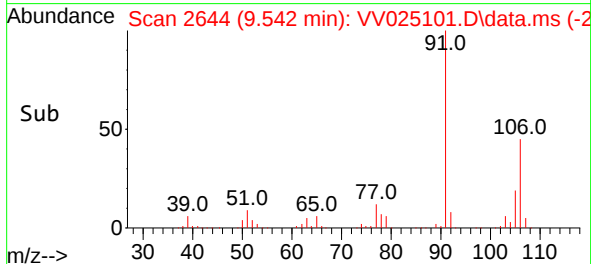
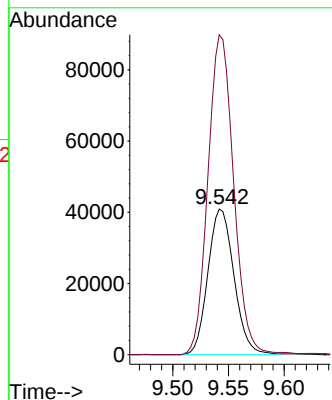
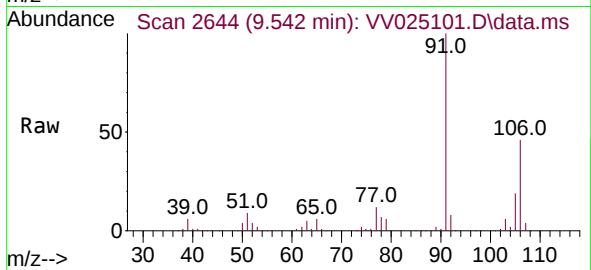




#54
o-xylene
Concen: 3.140 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. 0.000 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

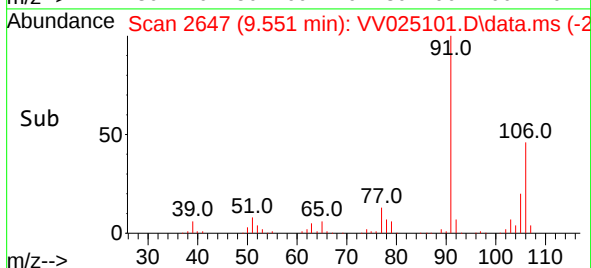
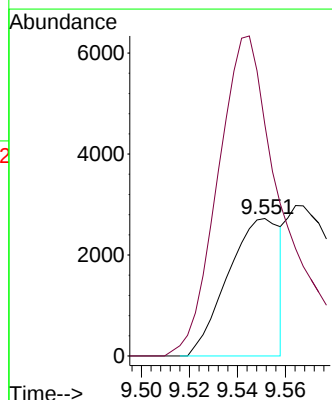
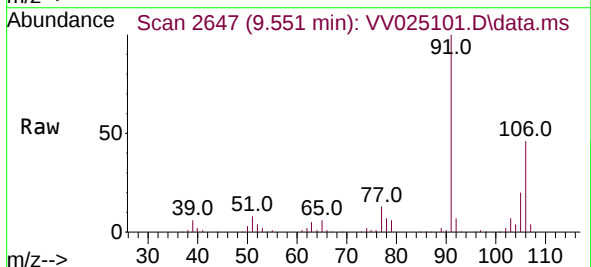
Instrument :
MSVOA_V
ClientSampleId :
C0QA7

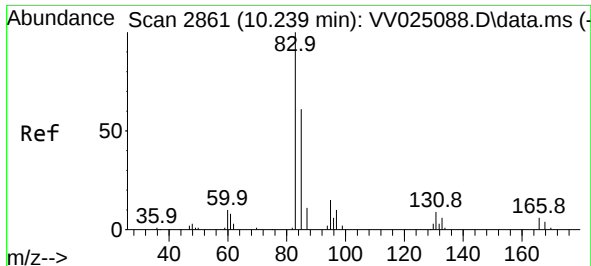
Tgt Ion:106 Resp: 66629
Ion Ratio Lower Upper
106 100
91 219.7 146.7 272.5



#55
Styrene
Concen: 0.119 ug/L
RT: 9.551 min Scan# 2647
Delta R.T. -0.006 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

Tgt Ion:104 Resp: 4112
Ion Ratio Lower Upper
104 100
78 168.5 30.2 56.2#





#57

1,1,2,2-Tetrachloroethane

Concen: 0.101 ug/L

RT: 10.239 min Scan# 2861

Delta R.T. 0.000 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

C0QA7

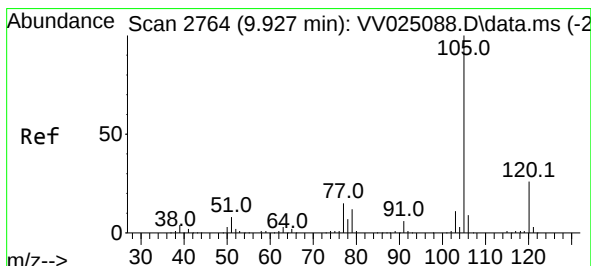
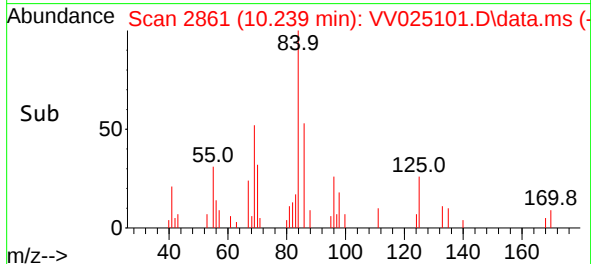
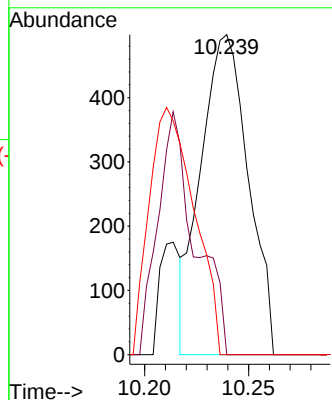
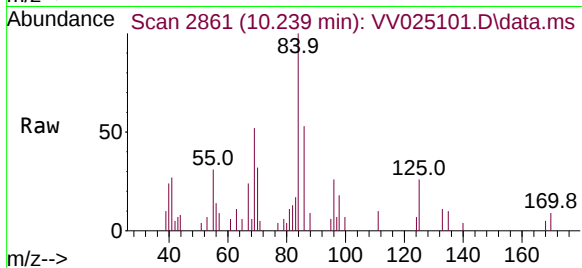
Tgt Ion: 83 Resp: 792

Ion Ratio Lower Upper

83 100

85 0.0 43.9 81.5#

131 0.0 7.5 11.3#



#60

Isopropylbenzene

Concen: 0.283 ug/L

RT: 9.934 min Scan# 2766

Delta R.T. 0.007 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

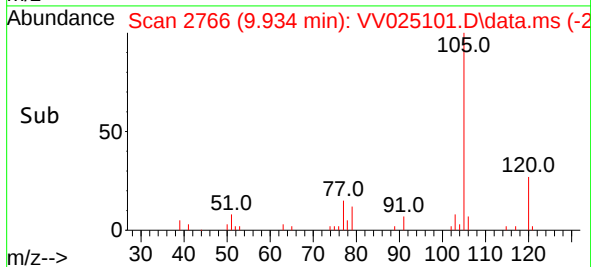
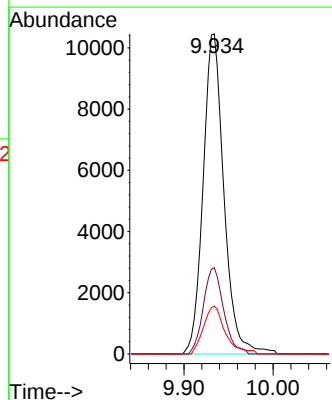
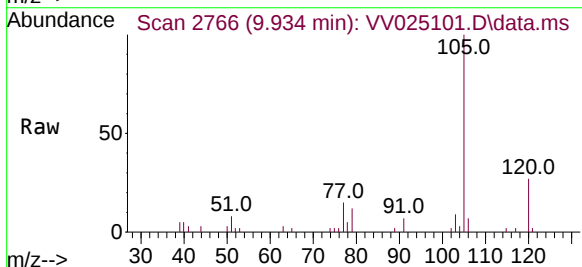
Tgt Ion: 105 Resp: 16946

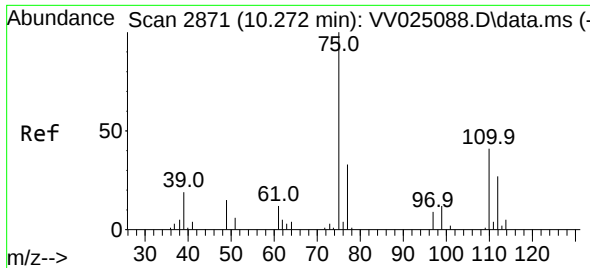
Ion Ratio Lower Upper

105 100

120 0.0 20.7 31.1#

77 15.6 12.2 18.2

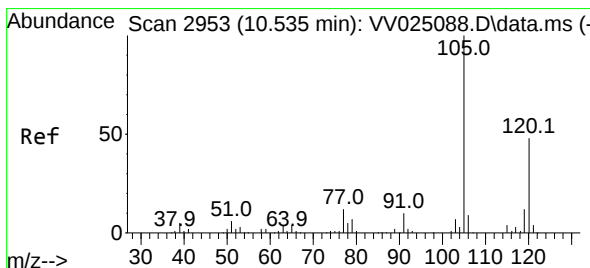
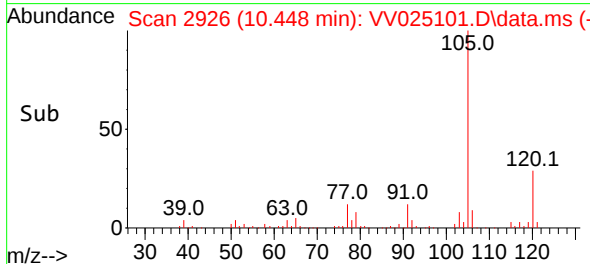
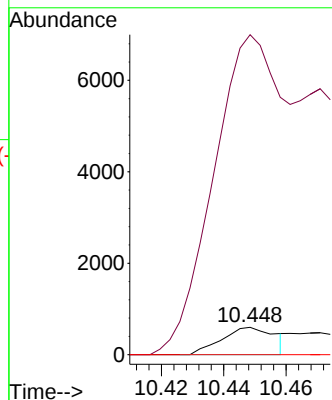
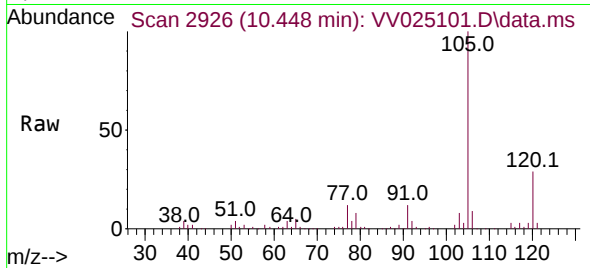




#61
1,2,3-Trichloropropane
Concen: 0.106 ug/L
RT: 10.448 min Scan# 2926
Delta R.T. 0.177 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

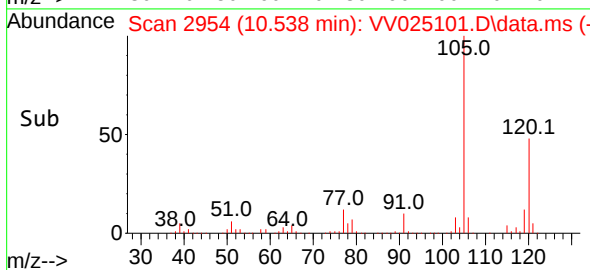
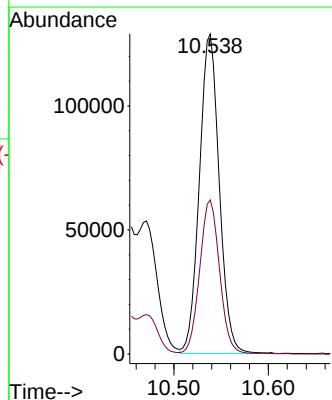
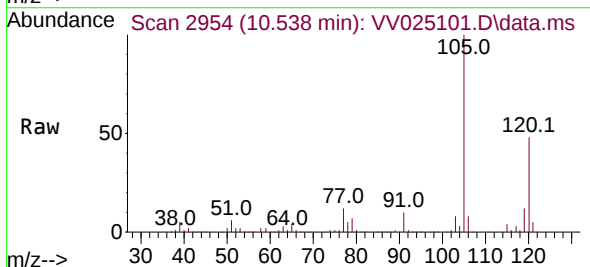
Instrument :
MSVOA_V
ClientSampleId :
C0QA7

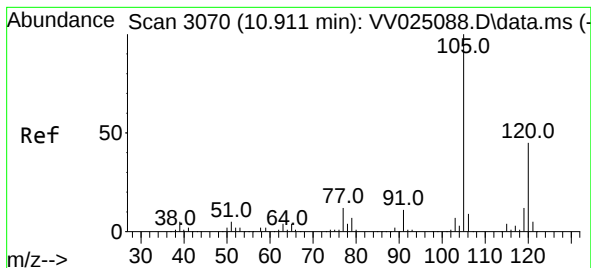
Tgt Ion: 75 Resp: 710
Ion Ratio Lower Upper
75 100
77 1545.8 25.7 38.5#
110 0.0 31.2 46.8#



#62
1,3,5-Trimethylbenzene
Concen: 6.914 ug/L
RT: 10.538 min Scan# 2954
Delta R.T. 0.003 min
Lab File: VV025101.D
Acq: 18 Mar 2022 16:32

Tgt Ion: 105 Resp: 187771
Ion Ratio Lower Upper
105 100
120 48.6 38.5 57.7





#63

1,2,4-Trimethylbenzene

Concen: 10.078 ug/L

RT: 10.911 min Scan# 3070

Delta R.T. 0.000 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

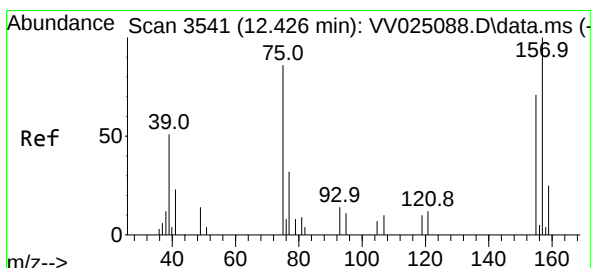
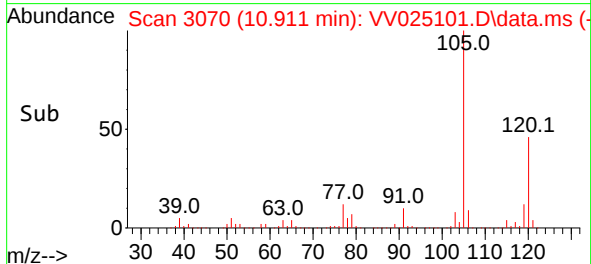
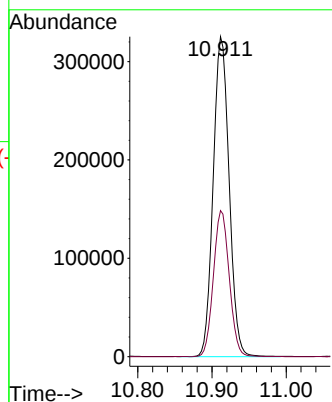
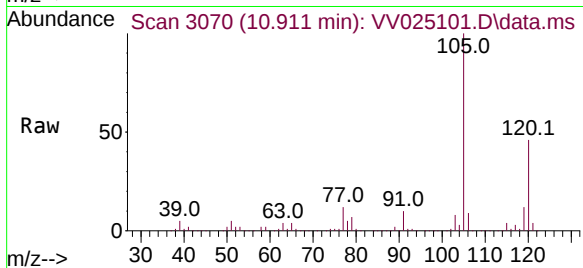
C0QA7

Tgt Ion:105 Resp: 484715

Ion Ratio Lower Upper

105 100

120 45.4 35.8 53.8



#68

1,2-Dibromo-3-chloropropane

Concen: 0.709 ug/L

RT: 12.407 min Scan# 3535

Delta R.T. -0.019 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

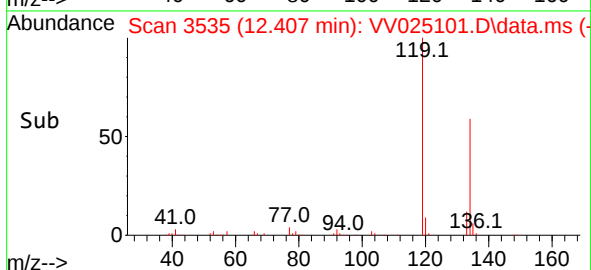
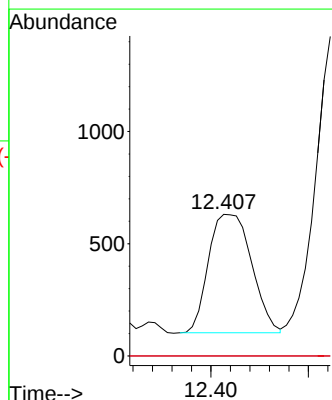
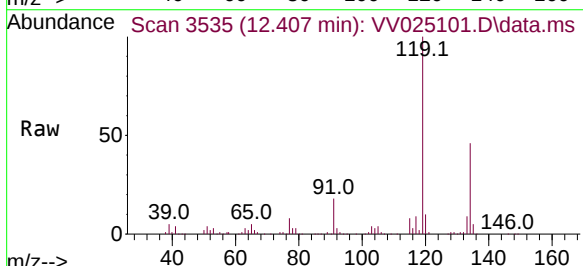
Tgt Ion: 75 Resp: 811

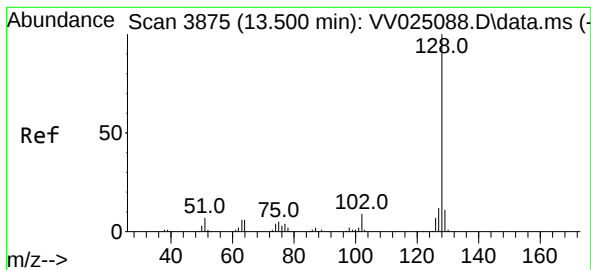
Ion Ratio Lower Upper

75 100

155 0.0 65.9 98.9#

157 0.0 89.7 134.5#





#71

Naphthalene

Concen: 371.962 ug/L

RT: 13.500 min Scan# 3875

Delta R.T. 0.000 min

Lab File: VV025101.D

Acq: 18 Mar 2022 16:32

Instrument :

MSVOA_V

ClientSampleId :

C0QA7

Tgt Ion:128 Resp: 8825307

Ion Ratio Lower Upper

128 100

129 11.8 8.5 12.7

127 13.4 9.8 14.8

