

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW100121\
 Data File : VW022498.D
 Acq On : 02 Oct 2021 05:38
 Operator : SY/MD
 Sample : M4023-08
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AJ7

Quant Time: Oct 02 06:33:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM100121WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Oct 02 01:27:14 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.625	114	249703	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	249172	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.252	152	131147	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	71157	46.077	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.160%
7) Chloroethane-d5	1.568	69	58474	48.169	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.340%
11) 1,1-Dichloroethene-d2	2.114	63	4923082	1616.757	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	3233.520%#
21) 2-Butanone-d5	3.895	46	74580	87.735	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.730%
24) Chloroform-d	4.352	84	128890	45.681	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.360%
26) 1,2-Dichloroethane-d4	5.037	65	77013	47.053	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.100%
32) Benzene-d6	5.059	84	259952	45.033	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.060%
36) 1,2-Dichloropropane-d6	6.098	67	83631	47.062	ug/L	0.03
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.120%
41) Toluene-d8	7.320	98	244047	46.090	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.180%
43) trans-1,3-Dichloroprop...	7.625	79	39066	46.464	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.920%
47) 2-Hexanone-d5	8.095	63	67035	91.061	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.060%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	110266	44.623	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.240%
66) 1,2-Dichlorobenzene-d4	11.625	152	100256	46.877	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.760%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.310	62	15908	6.758	ug/L	96
8) Chloroethane	1.307	64	6069	4.228	ug/L	99
9) Trichlorofluoromethane	2.114	101	20550	6.356	ug/L #	19
10) 1,1,2-Trichloro-1,2,2-...	2.114	101	21087	11.522	ug/L #	30
12) 1,1-Dichloroethene	2.117	96	8259101	4735.011	ug/L #	70
16) Methylene chloride	2.503	84	3786508	1727.803	ug/L	98
17) trans-1,2-Dichloroethene	2.764	96	20524	10.719	ug/L	96
19) 1,1-Dichloroethane	3.191	63	366795	108.263	ug/L	98
20) cis-1,2-Dichloroethene	3.915	96	5520753	2706.430	ug/L	94
25) Chloroform	4.381	83	40023	11.740	ug/L	98
27) 1,2-Dichloroethane	5.140	62	34669	14.043	ug/L	96
30) 1,1,1-Trichloroethane	4.622	97	14047380	4513.027	ug/L	97
31) Carbon tetrachloride	4.622	117	1891428	691.698	ug/L	98
33) Benzene	5.111	78	8621	1.121	ug/L	100
40) 4-Methyl-2-pentanone	7.239	43	5533	1.999	ug/L	96
42) Toluene	7.394	91	279768	34.521	ug/L	100
44) trans-1,3-Dichloropropene	7.628	75	1738	0.609	ug/L	94
45) 1,1,2-Trichloroethane	7.841	97	159725	78.333	ug/L	100
46) Tetrachloroethene	7.982	164	13713	8.154	ug/L	97

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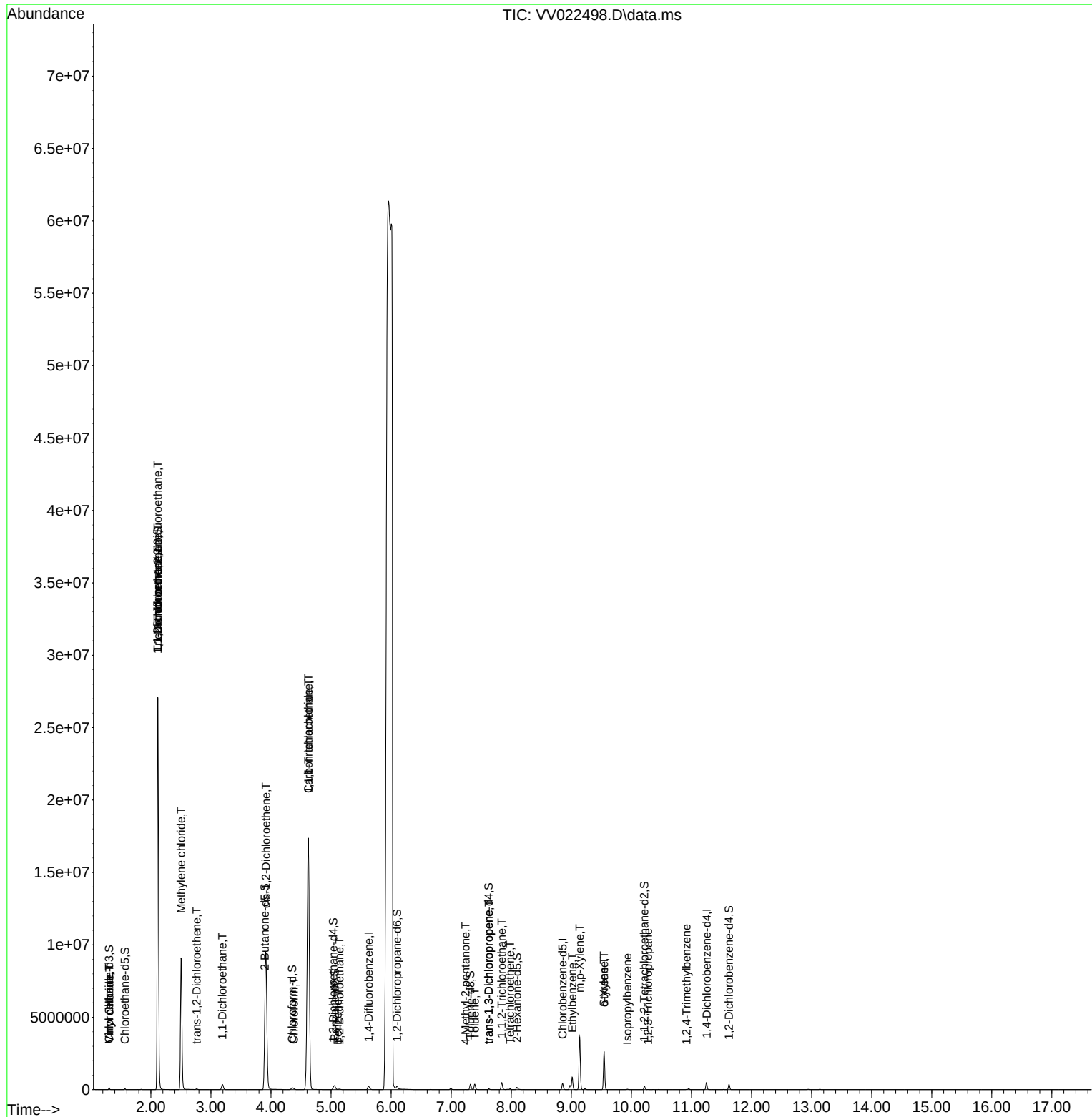
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.014	91	585656	69.434	ug/L	100
53) m,p-Xylene	9.140	106	1013196	303.188	ug/L	100
54) o-Xylene	9.545	106	676608	207.813	ug/L	98
55) Styrene	9.545	104	34230	6.126	ug/L #	1
60) Isopropylbenzene	9.934	105	20490	2.456	ug/L	99
61) 1,2,3-Trichloropropane	10.278	75	4199	1.684	ug/L	93
63) 1,2,4-Trimethylbenzene	10.918	105	7649	1.095	ug/L	100

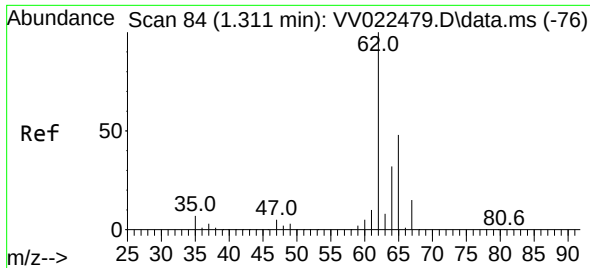
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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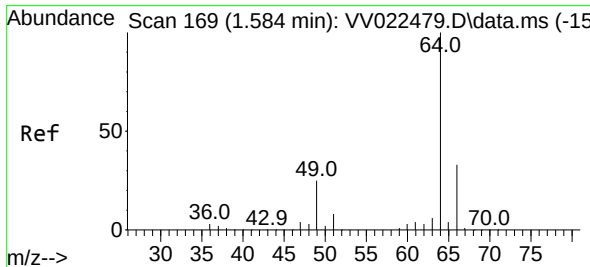
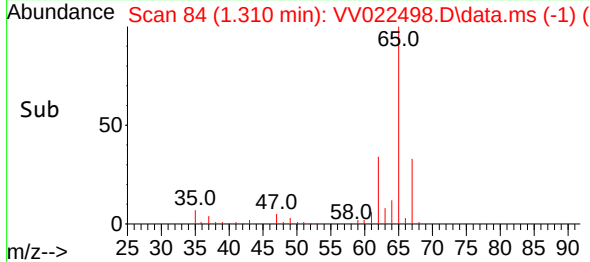
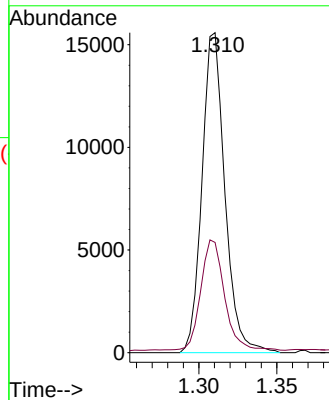
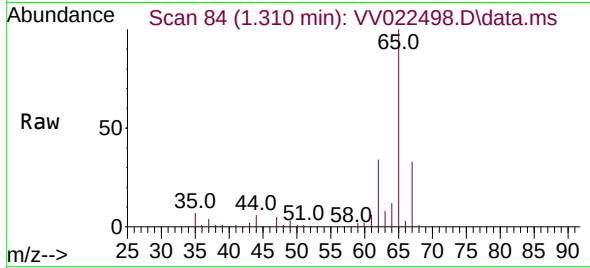




#5
 Vinyl chloride
 Concen: 6.758 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: VV022498.D
 Acq: 02 Oct 2021 05:38

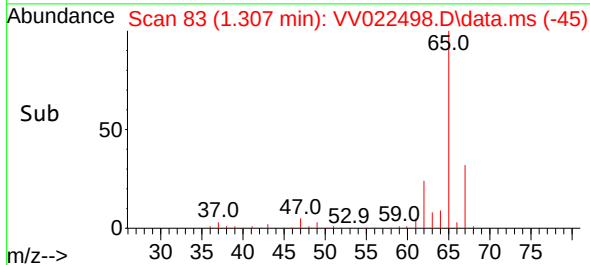
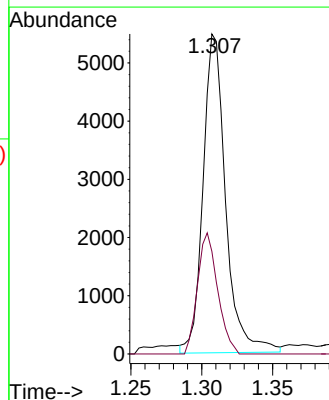
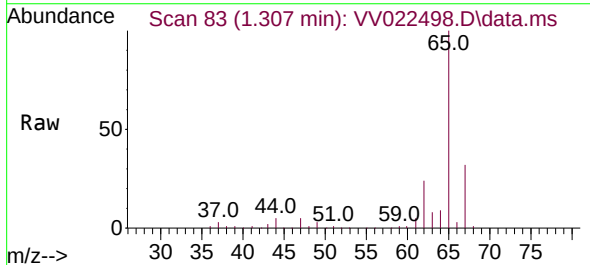
Instrument :
 MSVOA_V
 ClientSampled :
 C0AJ7

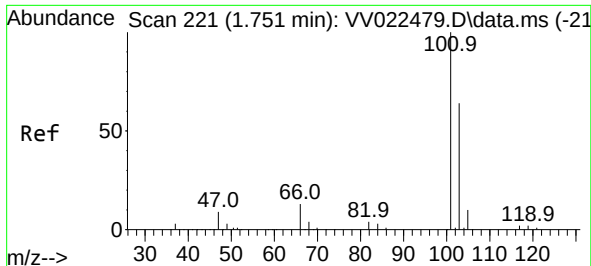
Tgt Ion: 62 Resp: 15908
 Ion Ratio Lower Upper
 62 100
 64 34.4 22.5 41.9



#8
 Chloroethane
 Concen: 4.228 ug/L
 RT: 1.307 min Scan# 83
 Delta R.T. -0.277 min
 Lab File: VV022498.D
 Acq: 02 Oct 2021 05:38

Tgt Ion: 64 Resp: 6069
 Ion Ratio Lower Upper
 64 100
 66 32.0 22.7 42.3

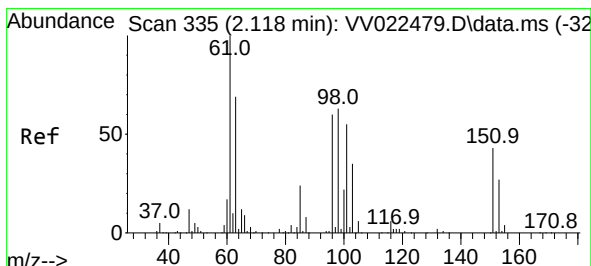
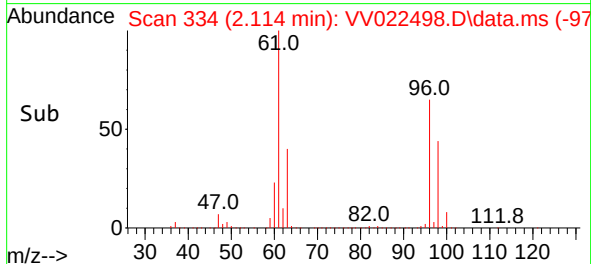
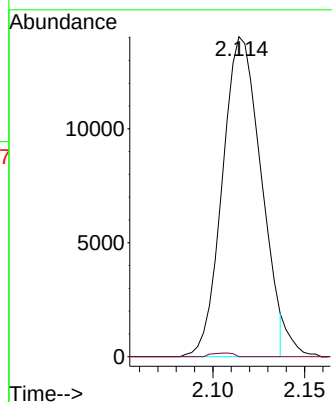
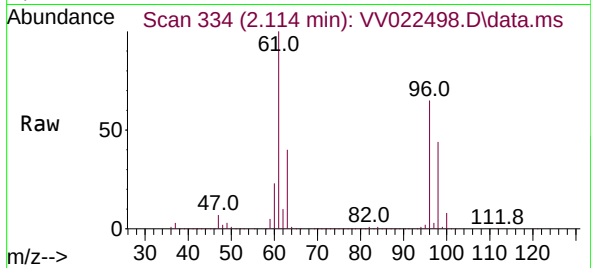




#9
 Trichlorofluoromethane
 Concen: 6.356 ug/L
 RT: 2.114 min Scan# 334
 Delta R.T. 0.363 min
 Lab File: VV022498.D
 Acq: 02 Oct 2021 05:38

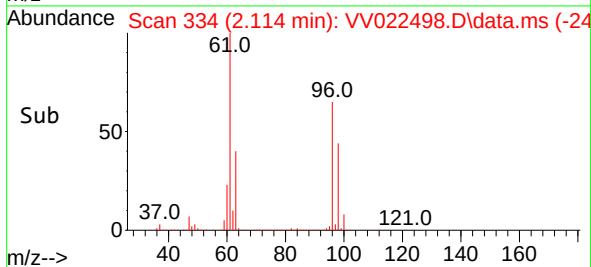
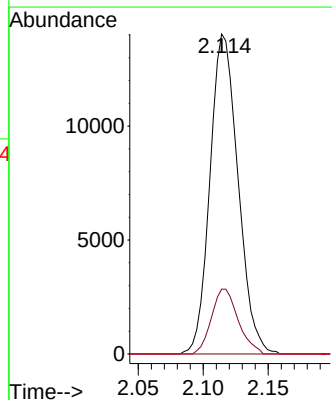
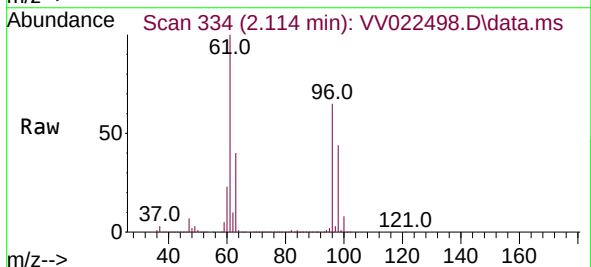
Instrument :
 MSVOA_V
 ClientSampled :
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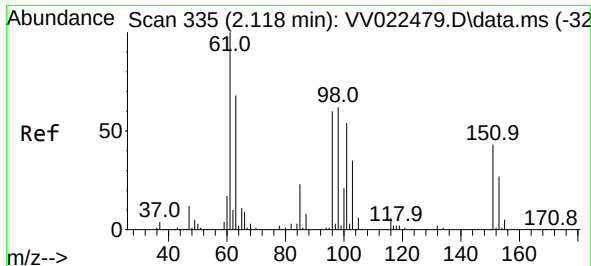
Tgt Ion:101 Resp: 20550
 Ion Ratio Lower Upper
 101 100
 103 0.7 51.7 77.5#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 11.522 ug/L
 RT: 2.114 min Scan# 334
 Delta R.T. -0.003 min
 Lab File: VV022498.D
 Acq: 02 Oct 2021 05:38

Tgt Ion:101 Resp: 21087
 Ion Ratio Lower Upper
 101 100
 85 19.3 34.7 52.1#
 151 0.0 61.3 91.9#

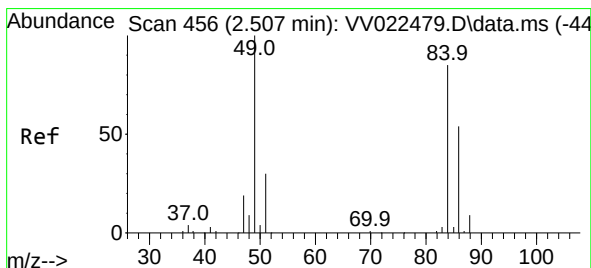
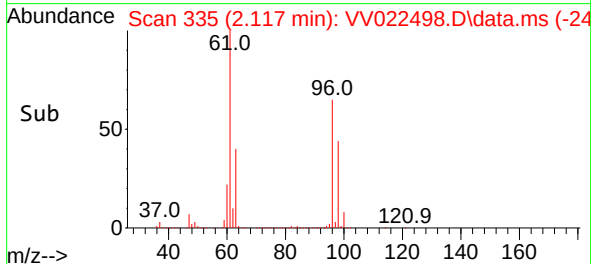
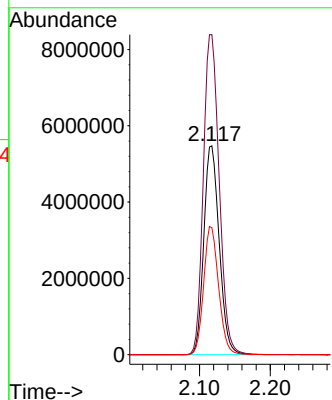
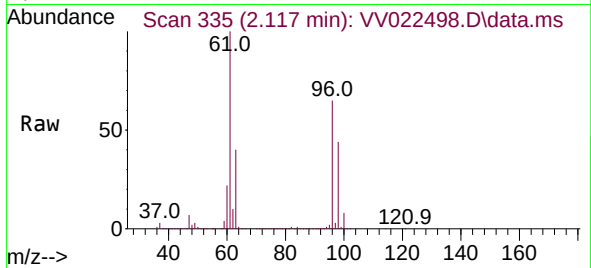




#12
1,1-Dichloroethene
Concen: 4735.011 ug/L
RT: 2.117 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

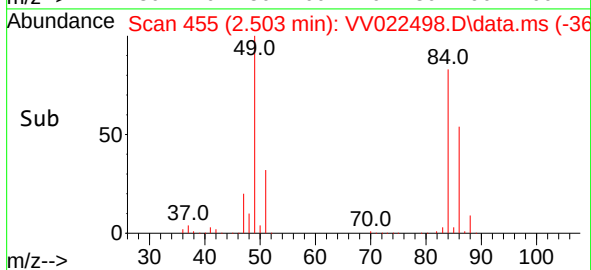
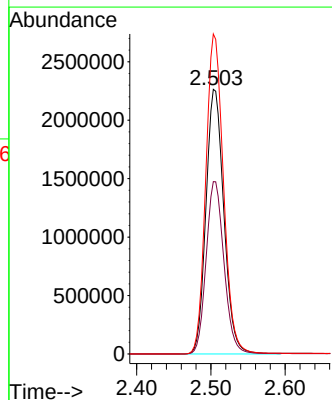
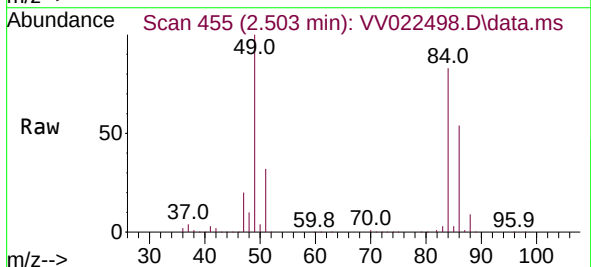
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ClientSampleId :
C0AJ7

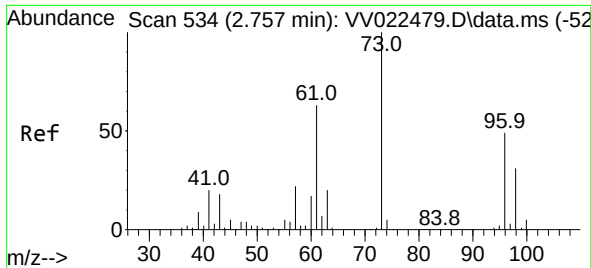
Tgt Ion: 96 Resp: 8259101
Ion Ratio Lower Upper
96 100
61 153.2 118.0 219.2
63 60.8 86.4 160.4#



#16
Methylene chloride
Concen: 1727.803 ug/L
RT: 2.503 min Scan# 455
Delta R.T. -0.003 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Tgt Ion: 84 Resp: 3786508
Ion Ratio Lower Upper
84 100
86 65.1 45.6 84.6
49 120.9 82.7 153.7

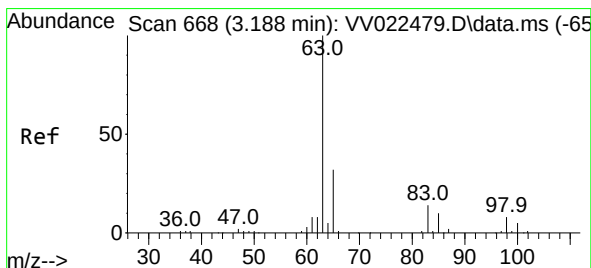
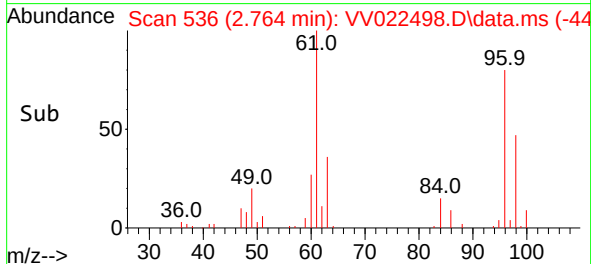
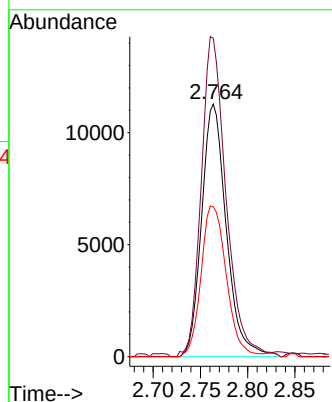
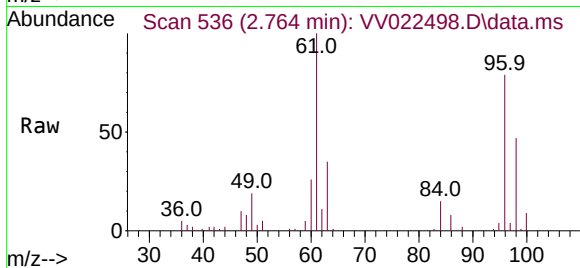




#17
trans-1,2-Dichloroethene
Concen: 10.719 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.006 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

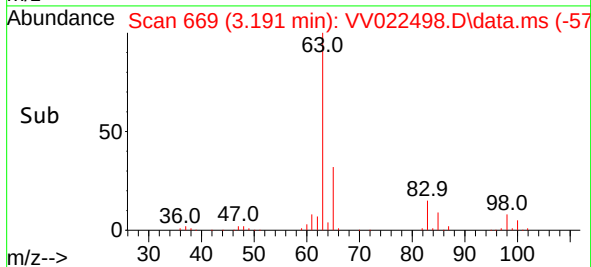
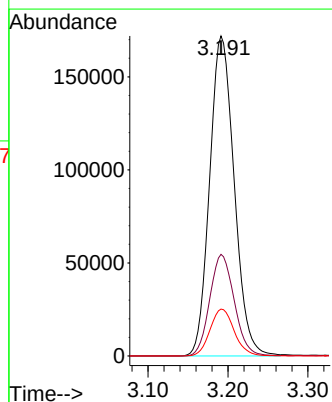
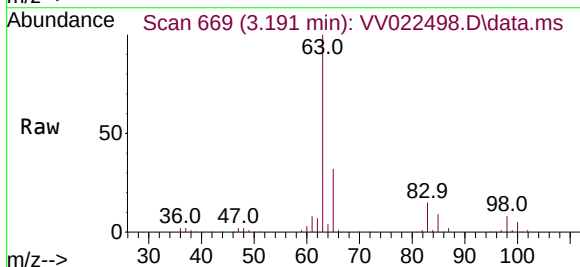
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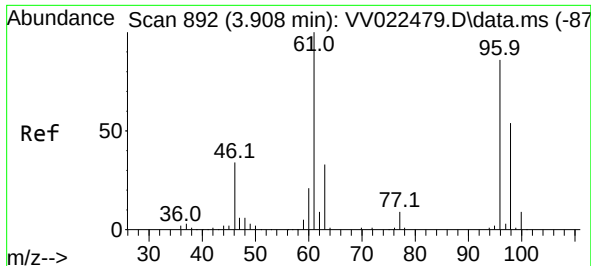
Tgt Ion:	96	Resp:	20524
Ion	Ratio	Lower	Upper
96	100		
61	126.0	90.8	168.6
98	59.3	44.0	81.8



#19
1,1-Dichloroethane
Concen: 108.263 ug/L
RT: 3.191 min Scan# 669
Delta R.T. 0.003 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Tgt Ion:	63	Resp:	366795
Ion	Ratio	Lower	Upper
63	100		
65	31.7	22.9	42.5
83	14.7	9.4	17.4



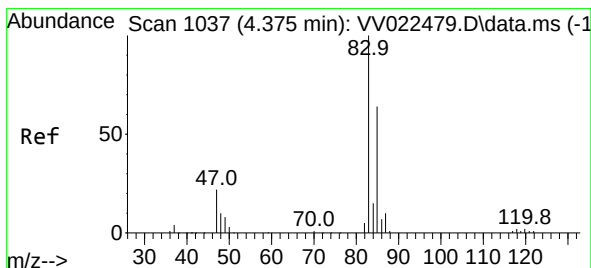
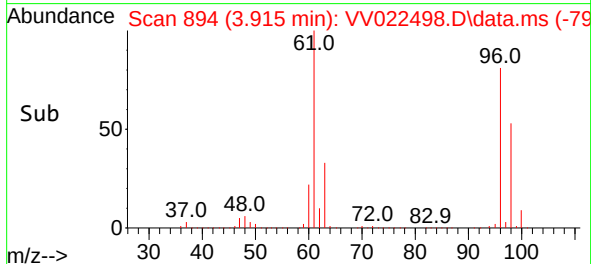
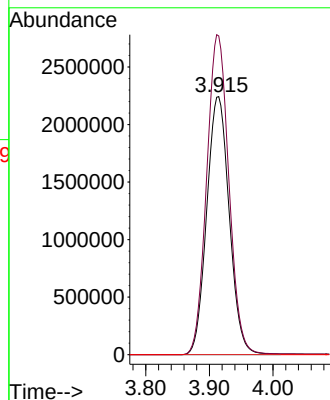
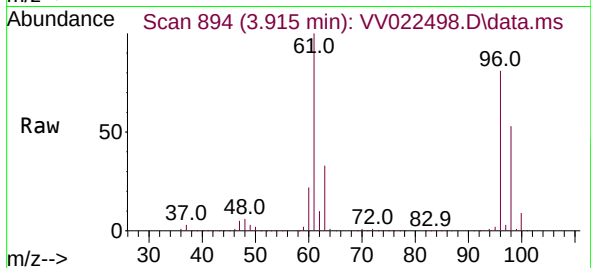


#20
cis-1,2-Dichloroethene
Concen: 2706.430 ug/L
RT: 3.915 min Scan# 894
Delta R.T. 0.006 min
Lab File: VV022498.D
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Tgt Ion: 96 Resp: 5520753

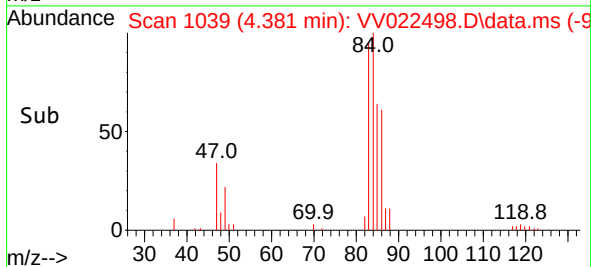
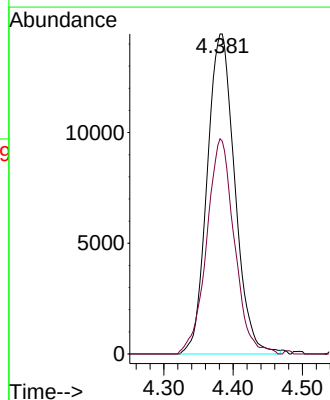
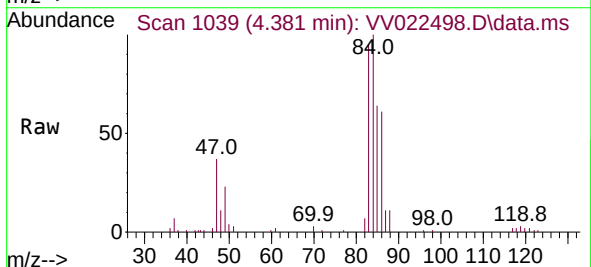
Ion	Ratio	Lower	Upper
96	100		
61	123.5	81.9	152.1
68	0.0	0.0	0.0

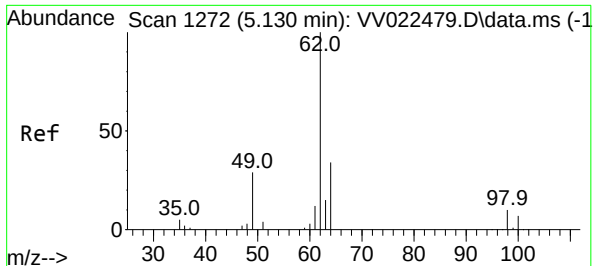


#25
Chloroform
Concen: 11.740 ug/L
RT: 4.381 min Scan# 1039
Delta R.T. 0.006 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Tgt Ion: 83 Resp: 40023

Ion	Ratio	Lower	Upper
83	100		
85	67.3	45.8	85.0





#27

1,2-Dichloroethane

Concen: 14.043 ug/L

RT: 5.140 min Scan# 1275

Delta R.T. 0.009 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

Tgt Ion: 62 Resp: 34669

Ion Ratio Lower Upper

62 100

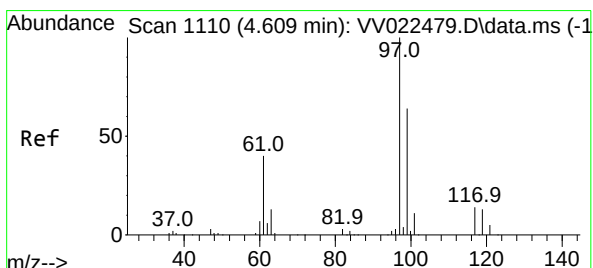
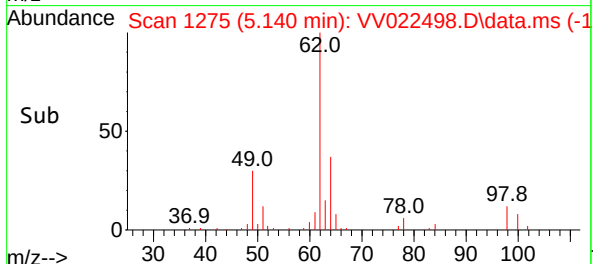
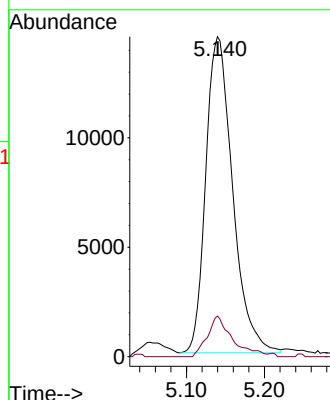
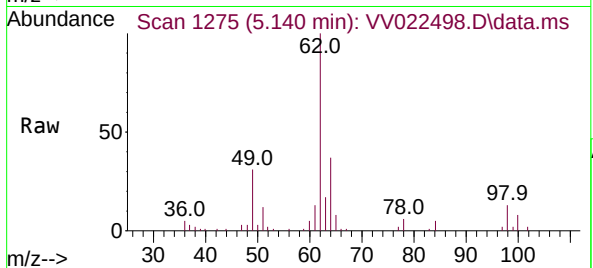
98 12.7 9.0 13.4

Instrument :

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ClientSampleId :

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#30

1,1,1-Trichloroethane

Concen: 4513.027 ug/L

RT: 4.622 min Scan# 1114

Delta R.T. 0.013 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

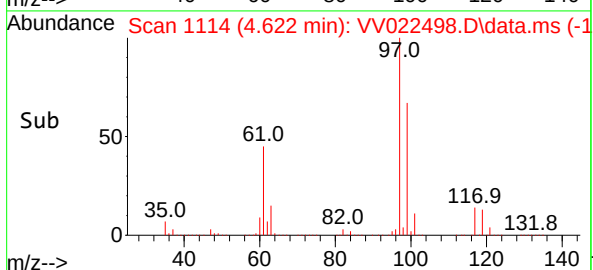
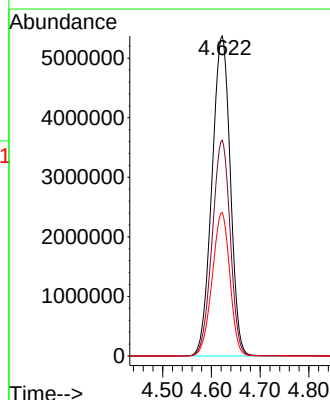
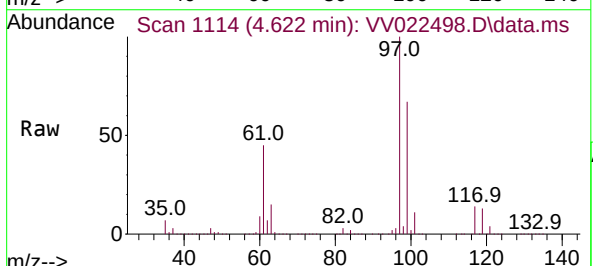
Tgt Ion: 97 Resp:14047380

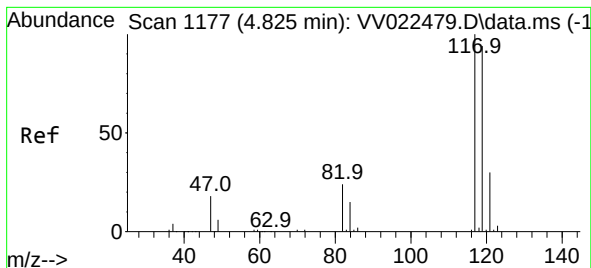
Ion Ratio Lower Upper

97 100

99 66.3 51.7 77.5

61 43.2 32.9 49.3





#31

Carbon tetrachloride

Concen: 691.698 ug/L

RT: 4.622 min Scan# 1114

Delta R.T. -0.203 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

Instrument :

MSVOA_V

ClientSampleId :

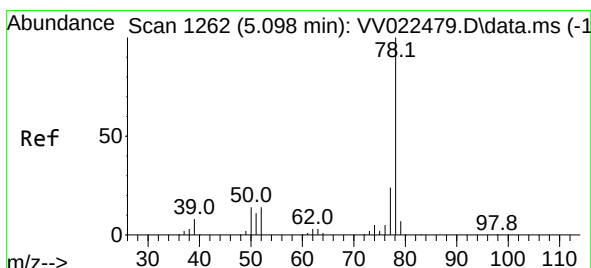
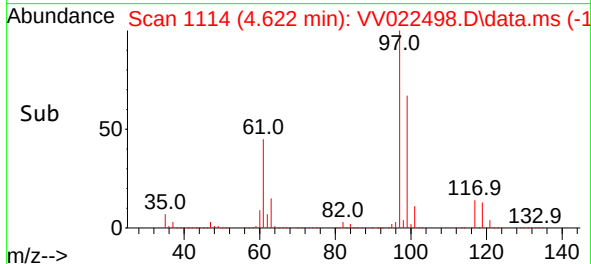
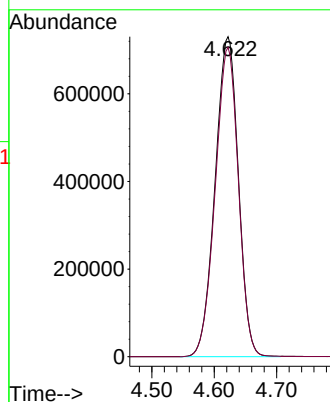
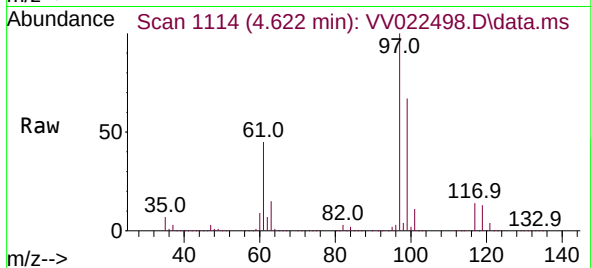
C0AJ7

Tgt Ion:117 Resp: 1891428

Ion Ratio Lower Upper

117 100

119 96.3 78.3 117.5



#33

Benzene

Concen: 1.121 ug/L

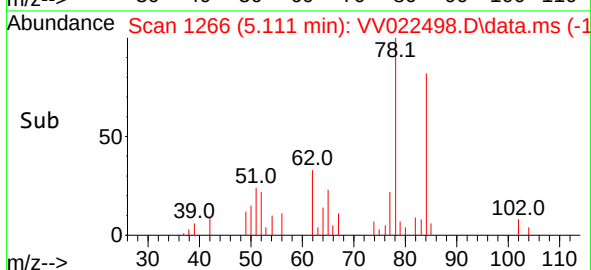
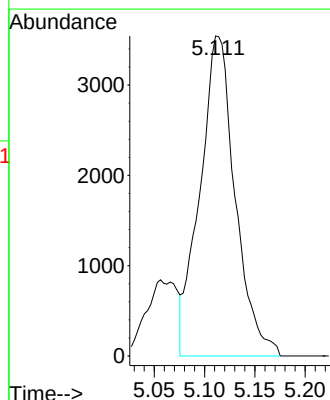
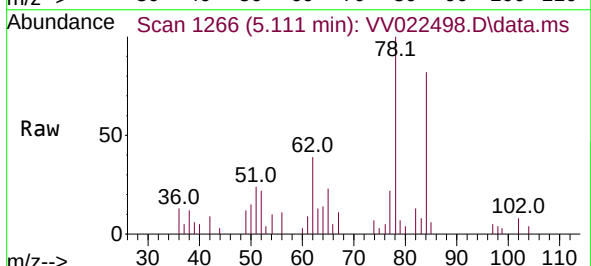
RT: 5.111 min Scan# 1266

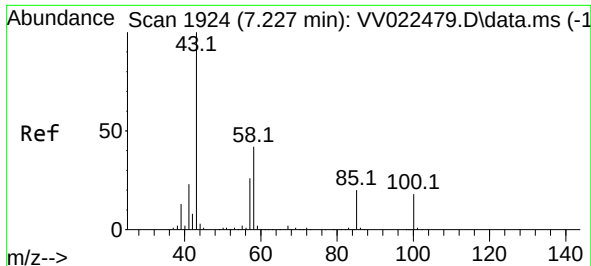
Delta R.T. 0.013 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

Tgt Ion: 78 Resp: 8621





#40

4-Methyl-2-pentanone

Concen: 1.999 ug/L

RT: 7.239 min Scan# 1928

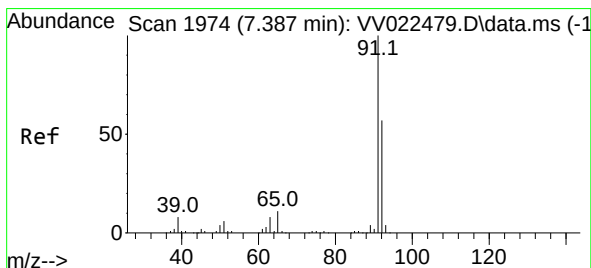
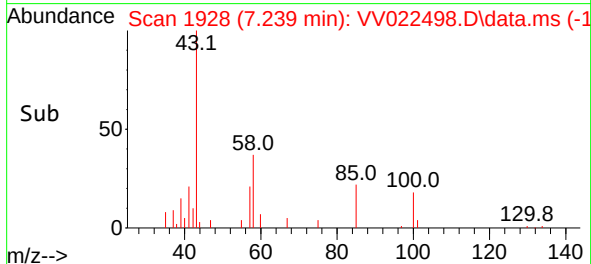
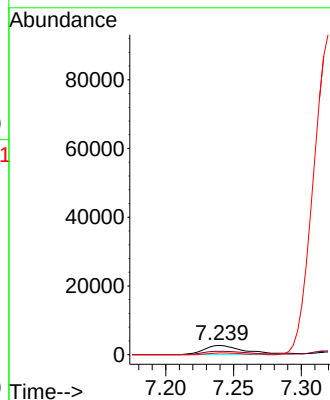
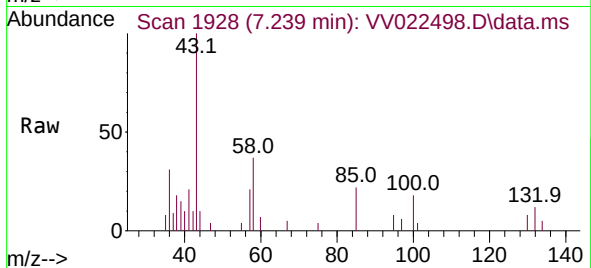
Delta R.T. 0.013 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

Tgt Ion:	43	Resp:	5533
Ion	Ratio	Lower	Upper
43	100		
58	42.2	32.5	48.7
100	13.9	13.9	20.9

Instrument :
MSVOA_V
ClientSampleId :
C0AJ7



#42

Toluene

Concen: 34.521 ug/L

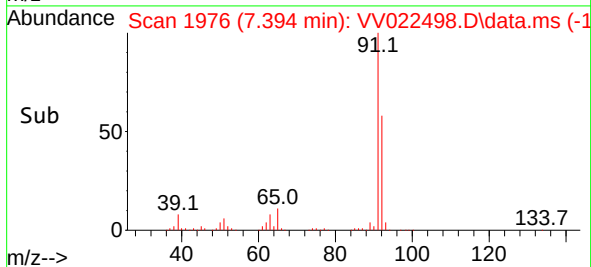
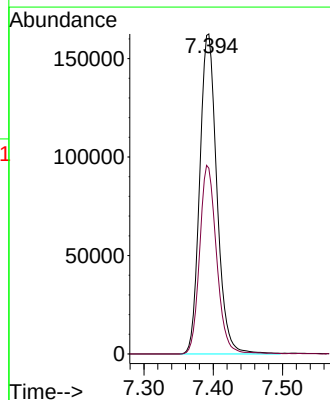
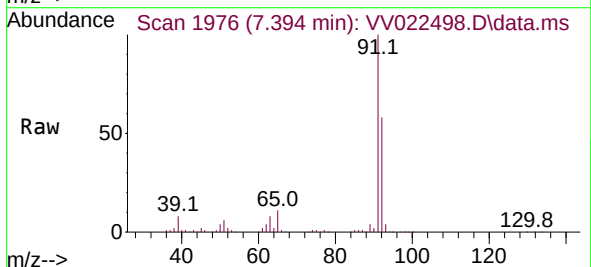
RT: 7.394 min Scan# 1976

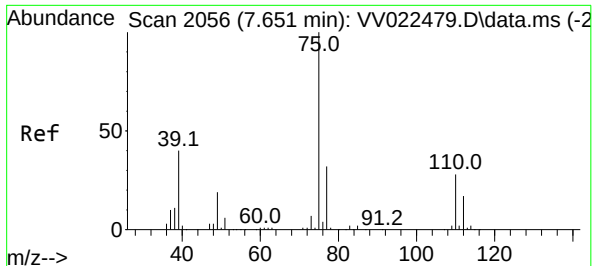
Delta R.T. 0.006 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

Tgt Ion:	91	Resp:	279768
Ion	Ratio	Lower	Upper
91	100		
92	58.1	40.6	75.4

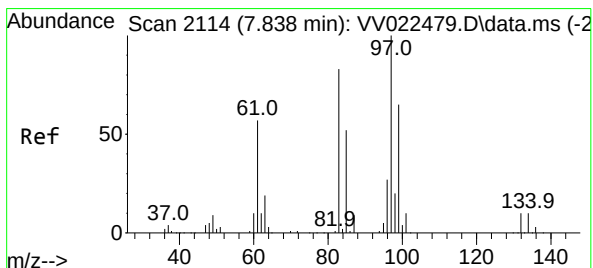
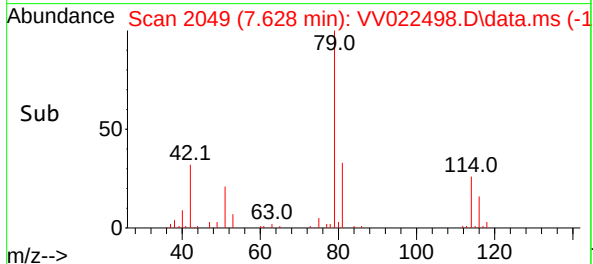
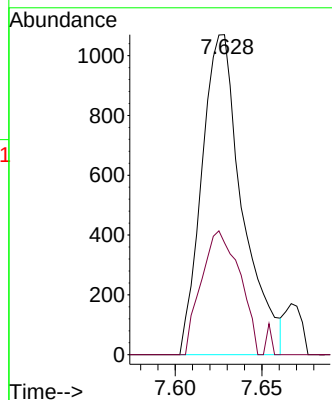
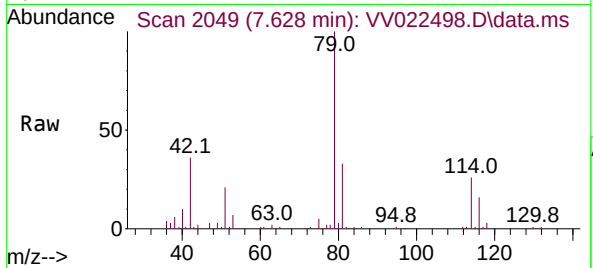




#44
trans-1,3-Dichloropropene
Concen: 0.609 ug/L
RT: 7.628 min Scan# 2049
Delta R.T. -0.023 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

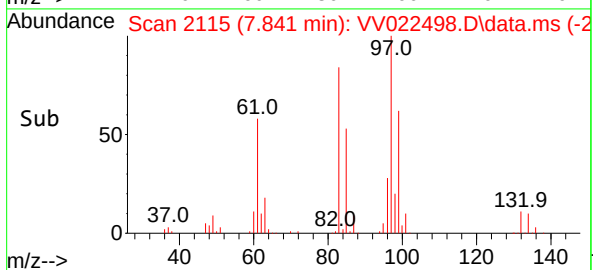
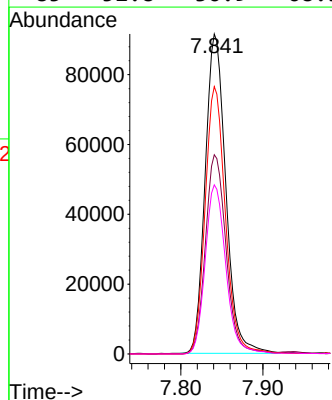
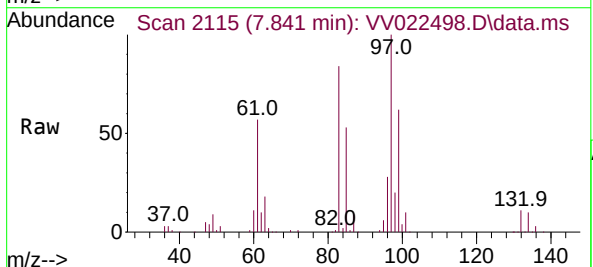
Instrument :
MSVOA_V
ClientSampleId :
C0AJ7

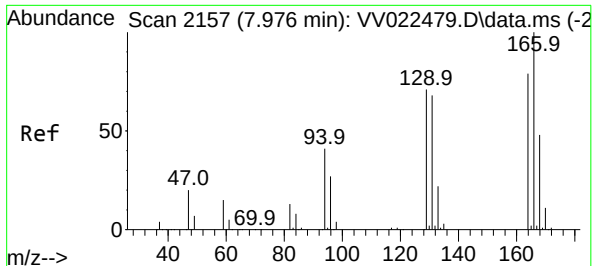
Tgt Ion: 75 Resp: 1738
Ion Ratio Lower Upper
75 100
77 35.0 22.0 40.8



#45
1,1,2-Trichloroethane
Concen: 78.333 ug/L
RT: 7.841 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Tgt Ion: 97 Resp: 159725
Ion Ratio Lower Upper
97 100
99 62.3 43.1 80.1
83 83.6 58.6 108.8
85 52.8 36.9 68.5

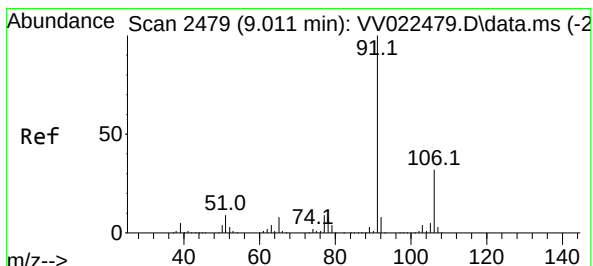
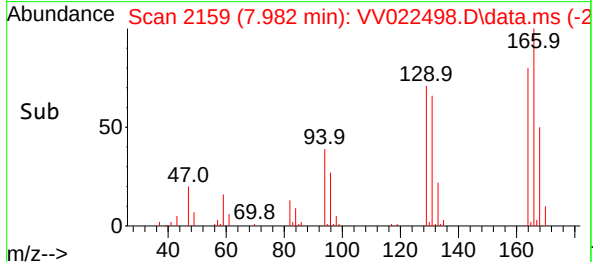
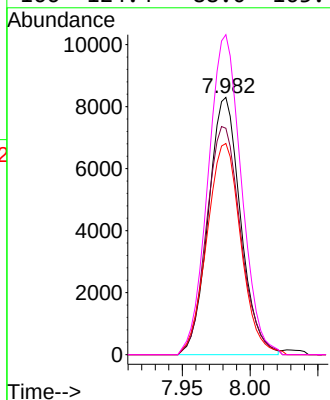
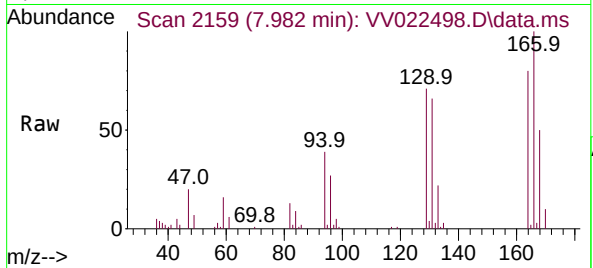




#46
Tetrachloroethene
Concen: 8.154 ug/L
RT: 7.982 min Scan# 2159
Delta R.T. 0.006 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

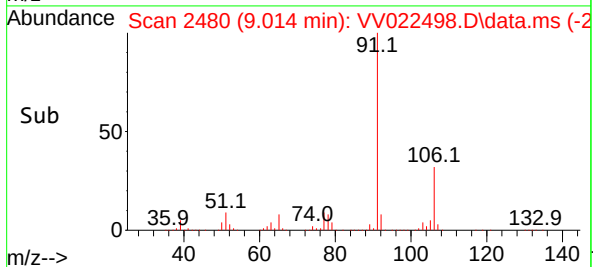
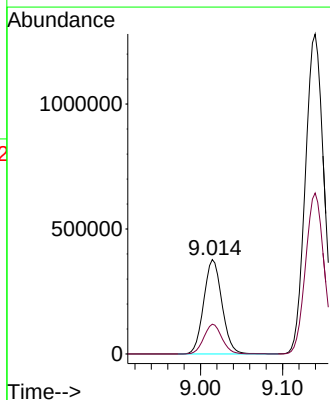
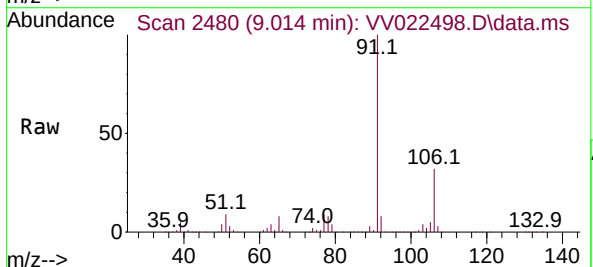
Instrument :
MSVOA_V
ClientSampled :
C0AJ7

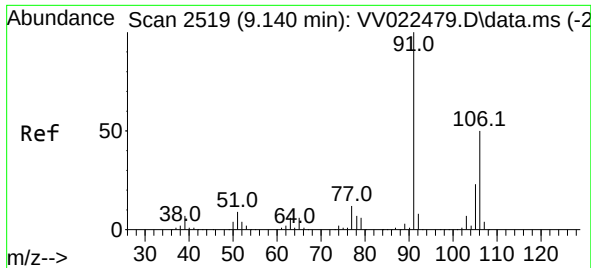
Tgt Ion:	164	Resp:	13713
Ion	Ratio	Lower	Upper
164	100		
129	88.0	64.6	120.0
131	82.1	59.9	111.3
166	124.4	88.0	163.4



#52
Ethylbenzene
Concen: 69.434 ug/L
RT: 9.014 min Scan# 2480
Delta R.T. 0.003 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Tgt Ion:	91	Resp:	585656
Ion	Ratio	Lower	Upper
91	100		
106	31.5	22.0	41.0

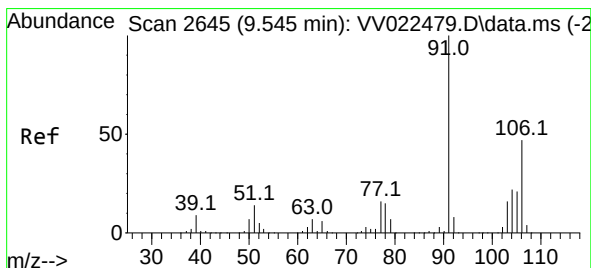
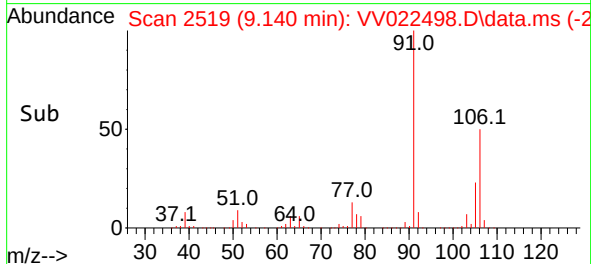
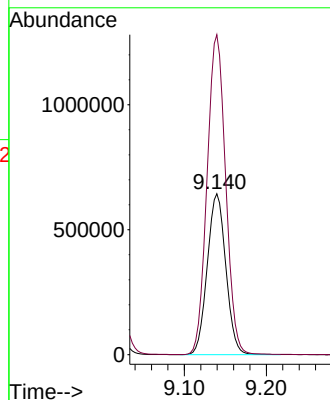
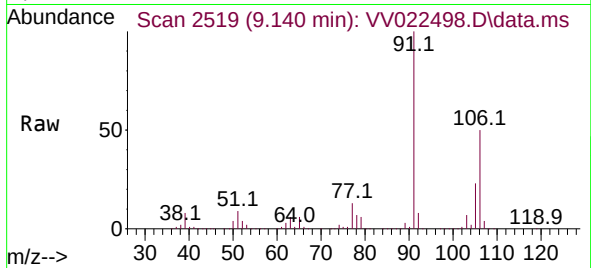




#53
m,p-Xylene
Concen: 303.188 ug/L
RT: 9.140 min Scan# 2519
Delta R.T. -0.000 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

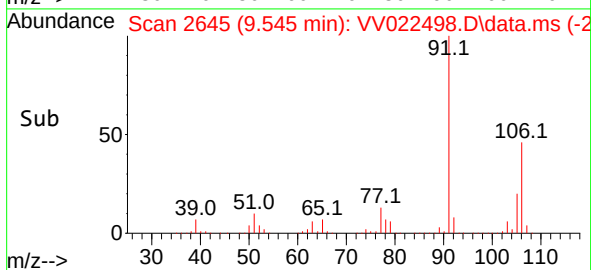
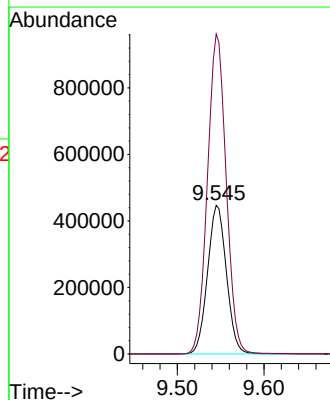
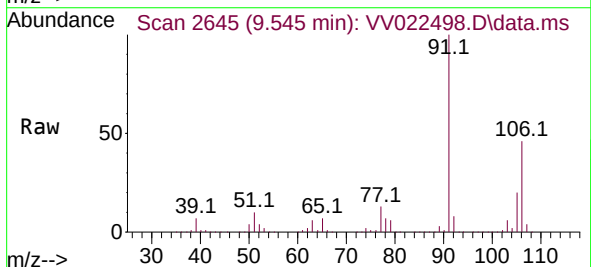
Instrument :
MSVOA_V
ClientSampled :
C0AJ7

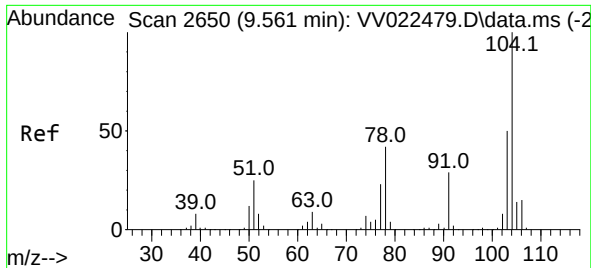
Tgt Ion:106 Resp: 1013196
Ion Ratio Lower Upper
106 100
91 198.9 139.4 258.8



#54
o-Xylene
Concen: 207.813 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.000 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Tgt Ion:106 Resp: 676608
Ion Ratio Lower Upper
106 100
91 215.3 148.7 276.1

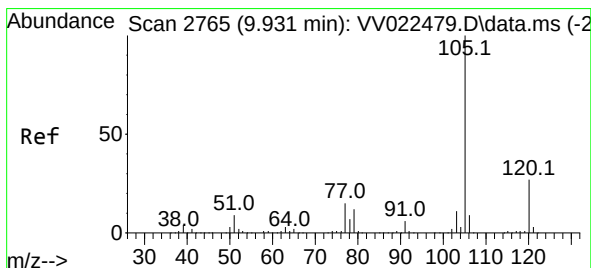
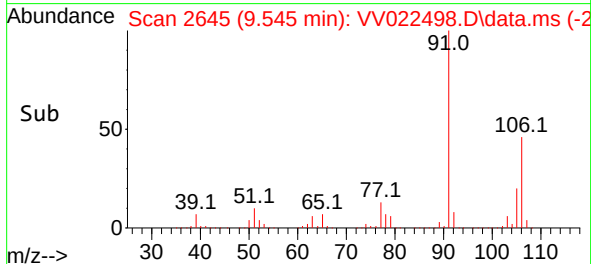
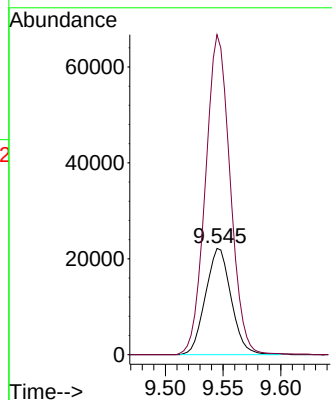
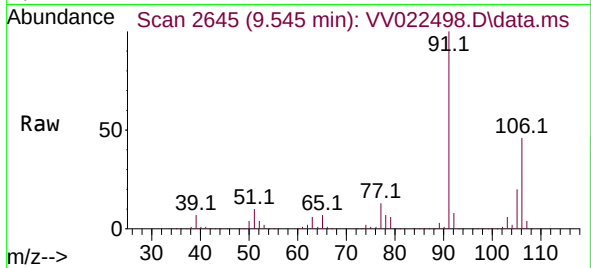




#55
Styrene
Concen: 6.126 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. -0.016 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

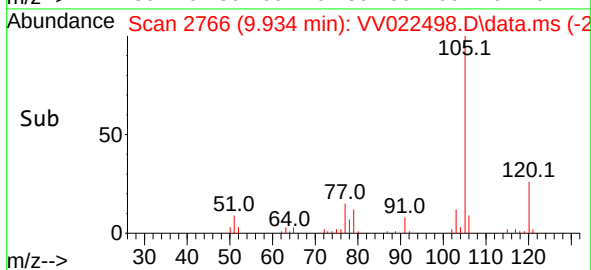
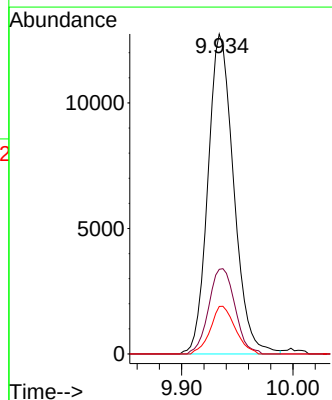
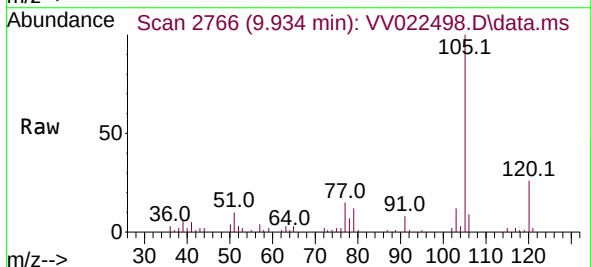
Instrument :
MSVOA_V
ClientSampled :
C0AJ7

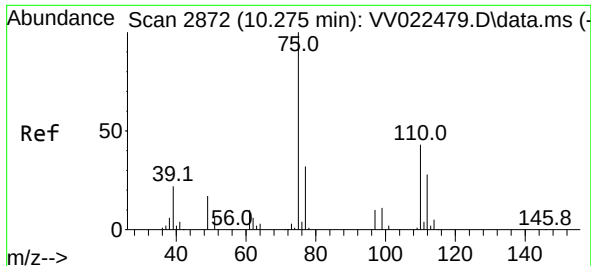
Tgt Ion:104 Resp: 34230
Ion Ratio Lower Upper
104 100
78 301.1 30.6 56.8#



#60
Isopropylbenzene
Concen: 2.456 ug/L
RT: 9.934 min Scan# 2766
Delta R.T. 0.003 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Tgt Ion:105 Resp: 20490
Ion Ratio Lower Upper
105 100
120 27.2 21.6 32.4
77 14.4 12.0 18.0

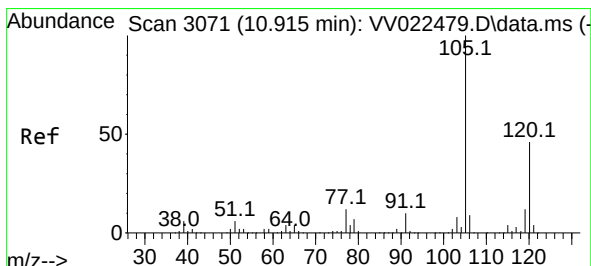
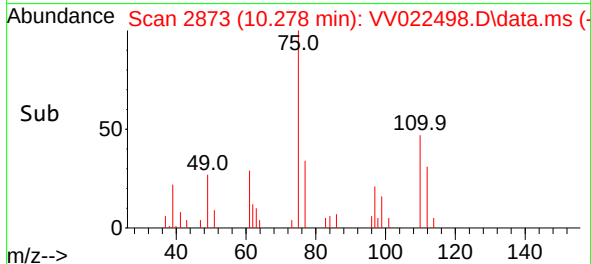
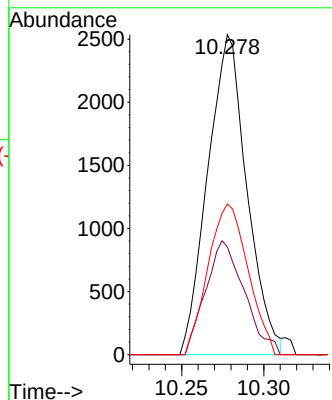
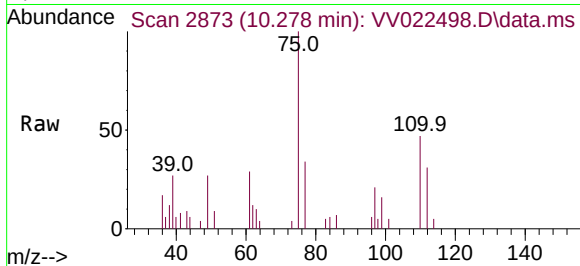




#61
1,2,3-Trichloropropane
Concen: 1.684 ug/L
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Instrument :
MSVOA_V
ClientSampled :
C0AJ7

Tgt Ion: 75	Resp:	4199
Ion Ratio	Lower	Upper
75	100	
77	35.2	26.0 39.0
110	48.1	34.3 51.5



#63
1,2,4-Trimethylbenzene
Concen: 1.095 ug/L
RT: 10.918 min Scan# 3072
Delta R.T. 0.003 min
Lab File: VV022498.D
Acq: 02 Oct 2021 05:38

Tgt Ion: 105	Resp:	7649
Ion Ratio	Lower	Upper
105	100	
120	47.0	37.4 56.0

