

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120822\
 Data File : VV029507.D
 Acq On : 09 Dec 2022 04:46
 Operator : SY/MD
 Sample : N5928-04
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ67

Quant Time: Dec 09 06:29:43 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 08 01:48:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	537057	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	493420	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	267820	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	186223	56.625	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	= 113.240%		
7) Chloroethane-d5	1.564	69	143131	57.076	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	= 114.160%		
11) 1,1-Dichloroethene-d2	2.105	63	227713	44.393	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 88.780%		
21) 2-Butanone-d5	3.870	46	200141	99.761	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	= 99.760%		
24) Chloroform-d	4.339	84	307669	49.714	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 99.420%		
26) 1,2-Dichloroethane-d4	5.024	65	184032	52.066	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 104.140%		
32) Benzene-d6	5.043	84	683827	52.449	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 104.900%		
36) 1,2-Dichloropropane-d6	6.063	67	202770	50.916	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	= 101.840%		
41) Toluene-d8	7.307	98	629601	51.251	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 102.500%		
43) trans-1,3-Dichloroprop...	7.612	79	81753	40.653	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 81.300%		
47) 2-Hexanone-d5	8.082	63	179876	105.772	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	= 105.770%		
56) 1,1,2,2-Tetrachloroeth...	10.207	84	281442	49.455	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	= 98.900%		
66) 1,2-Dichlorobenzene-d4	11.612	152	258551	50.714	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 101.420%		
Target Compounds						Qvalue
5) Vinyl chloride	1.310	62	269140	66.695	ug/L	98
8) Chloroethane	1.581	64	852692	379.477	ug/L	98
12) 1,1-Dichloroethene	2.114	96	19655	6.847	ug/L #	1
17) trans-1,2-Dichloroethene	2.757	96	24417	7.382	ug/L	91
19) 1,1-Dichloroethane	3.182	63	2263911	399.521	ug/L	99
20) cis-1,2-Dichloroethene	3.902	96	1167336	320.942	ug/L	97
27) 1,2-Dichloroethane	5.133	62	6384	1.538	ug/L	97
30) 1,1,1-Trichloroethane	4.600	97	895960	166.666	ug/L	99
34) Trichloroethene	5.912	95	18761	5.383	ug/L	95
42) Toluene	7.381	91	359810	24.036	ug/L	99
46) Tetrachloroethene	7.969	164	45221	16.139	ug/L	99
51) Chlorobenzene	8.876	112	17844	1.882	ug/L	97
52) Ethylbenzene	9.005	91	121422	7.715	ug/L	99
53) m,p-Xylene	9.127	106	107314	17.228	ug/L	100
54) o-Xylene	9.535	106	66450	10.785	ug/L	99
60) Isopropylbenzene	9.921	105	20399	1.297	ug/L	99
62) 1,3,5-Trimethylbenzene	10.529	105	59196	4.258	ug/L	98
63) 1,2,4-Trimethylbenzene	10.905	105	312710	22.691	ug/L	99
65) 1,4-Dichlorobenzene	11.262	146	10429	1.335	ug/L	91

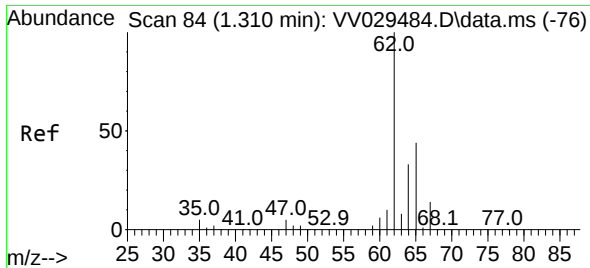
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120822\
Data File : VV029507.D
Acq On : 09 Dec 2022 04:46
Operator : SY/MD
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 08 01:48:46 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
67) 1,2-Dichlorobenzene	11.632	146	26796	3.408 ug/L	97

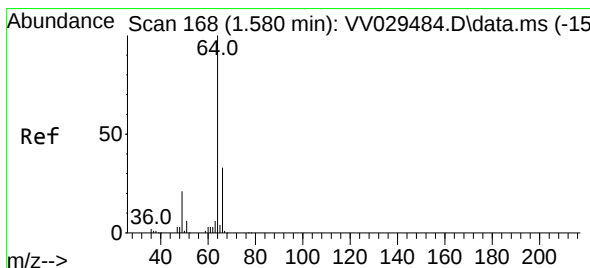
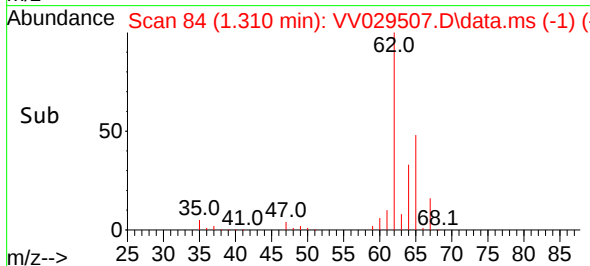
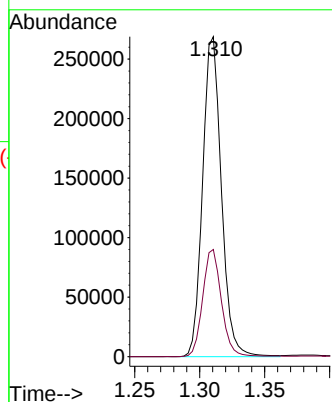
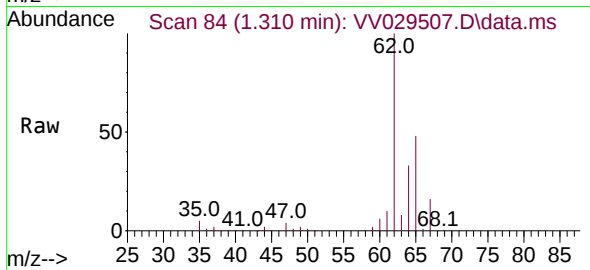
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5
 Vinyl chloride
 Concen: 66.695 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.003 min
 Lab File: VV029507.D
 Acq: 09 Dec 2022 04:46

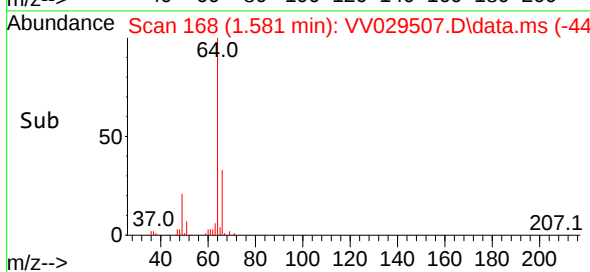
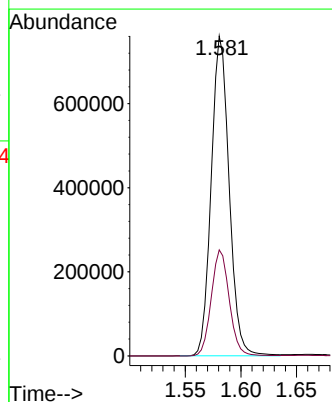
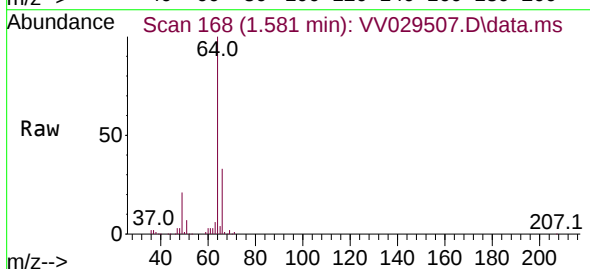
Instrument :
 MSVOA_V
 ClientSampleId :
 EXZ67

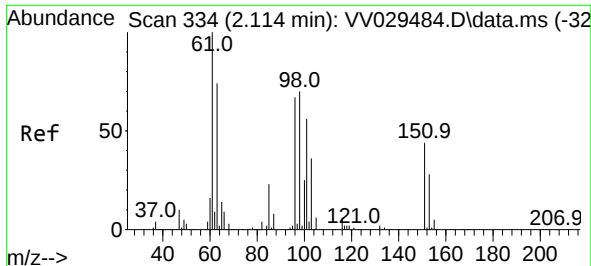
Tgt Ion: 62 Resp: 269140
 Ion Ratio Lower Upper
 62 100
 64 33.5 22.5 41.9



#8
 Chloroethane
 Concen: 379.477 ug/L
 RT: 1.581 min Scan# 168
 Delta R.T. -0.000 min
 Lab File: VV029507.D
 Acq: 09 Dec 2022 04:46

Tgt Ion: 64 Resp: 852692
 Ion Ratio Lower Upper
 64 100
 66 33.1 22.5 41.9





#12

1,1-Dichloroethene

Concen: 6.847 ug/L

RT: 2.114 min Scan# 334

Delta R.T. -0.000 min

Lab File: VV029507.D

Acq: 09 Dec 2022 04:46

Instrument :

MSVOA_V

ClientSampleId :

EXZ67

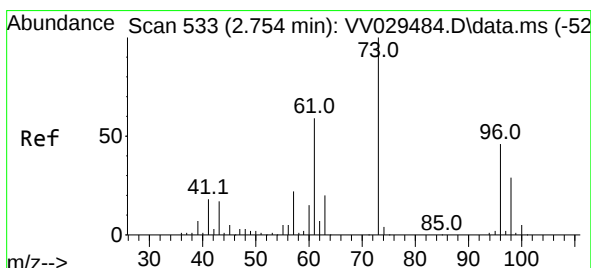
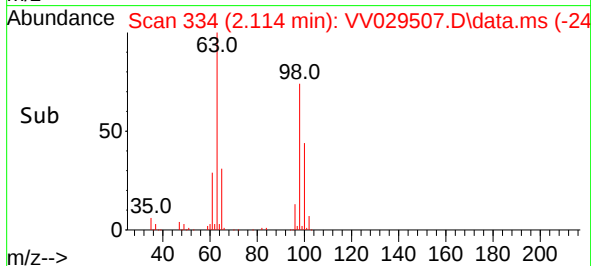
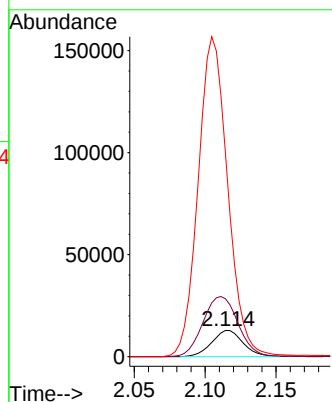
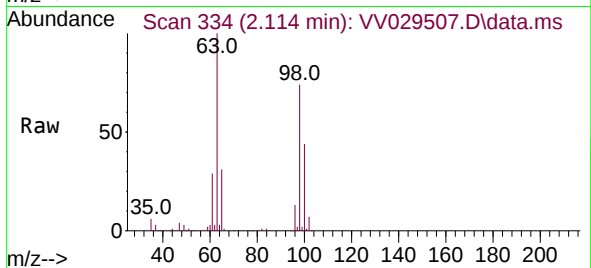
Tgt Ion: 96 Resp: 19655

Ion Ratio Lower Upper

96 100

61 220.4 103.3 191.9#

63 773.2 77.3 143.7#



#17

trans-1,2-Dichloroethene

Concen: 7.382 ug/L

RT: 2.757 min Scan# 534

Delta R.T. 0.003 min

Lab File: VV029507.D

Acq: 09 Dec 2022 04:46

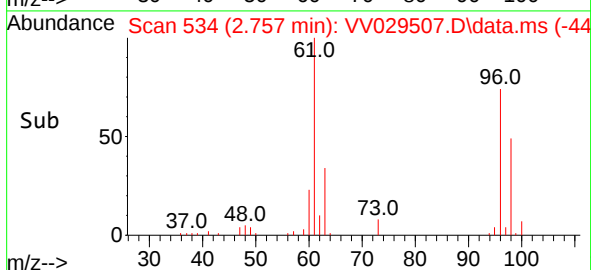
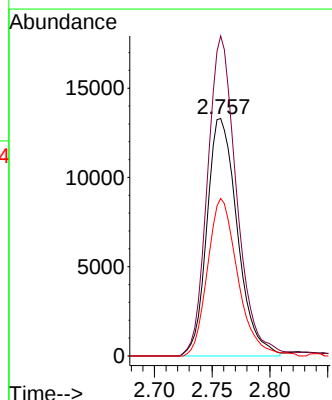
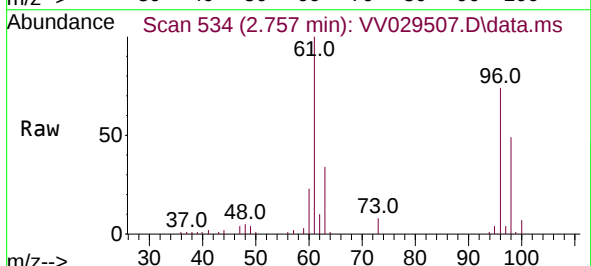
Tgt Ion: 96 Resp: 24417

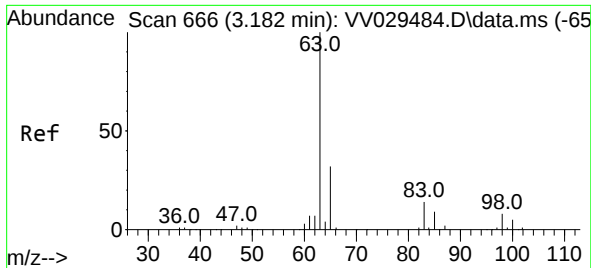
Ion Ratio Lower Upper

96 100

61 134.8 86.4 160.4

98 66.3 43.4 80.6



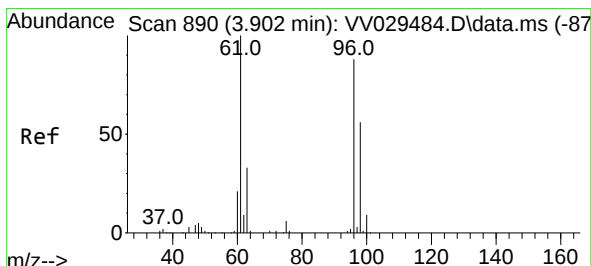
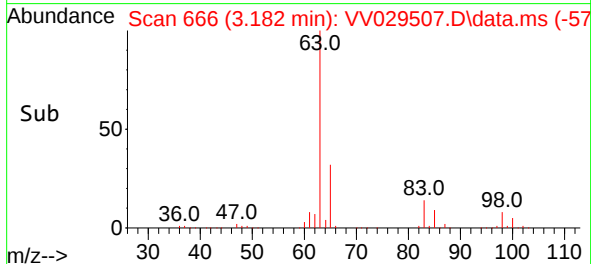
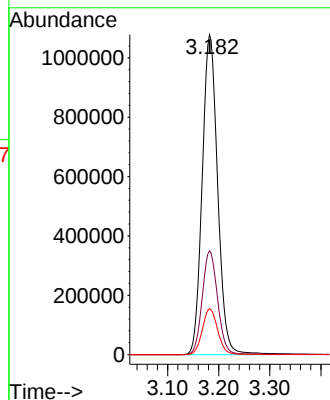
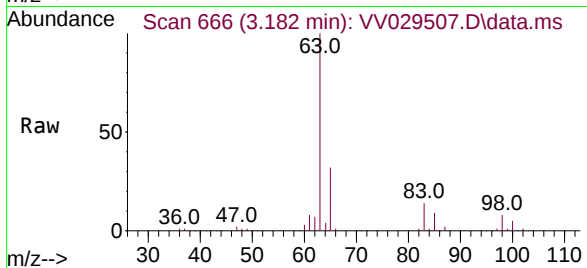


#19
1,1-Dichloroethane
Concen: 399.521 ug/L
RT: 3.182 min Scan# 666
Delta R.T. -0.003 min
Lab File: VV029507.D
Acq: 09 Dec 2022 04:46

Instrument :
MSVOA_V
ClientSampleId :
EXZ67

Tgt Ion: 63 Resp: 2263911

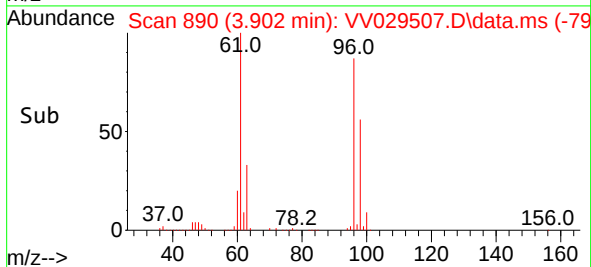
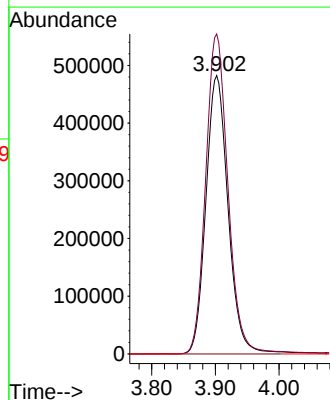
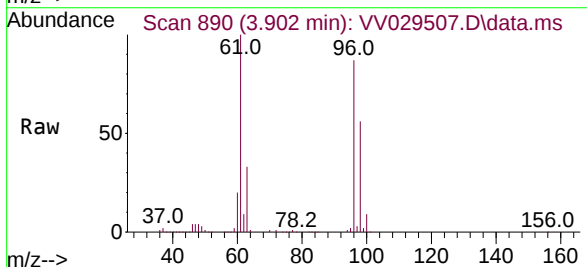
Ion	Ratio	Lower	Upper
63	100		
65	32.4	22.5	41.7
83	14.3	10.4	19.2

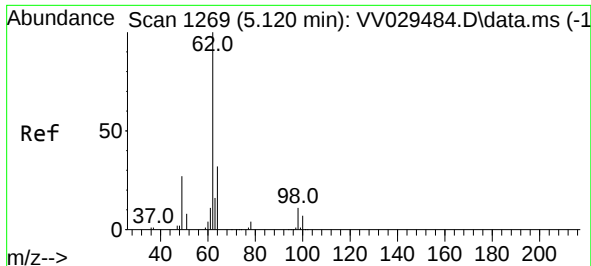


#20
cis-1,2-Dichloroethene
Concen: 320.942 ug/L
RT: 3.902 min Scan# 890
Delta R.T. -0.003 min
Lab File: VV029507.D
Acq: 09 Dec 2022 04:46

Tgt Ion: 96 Resp: 1167336

Ion	Ratio	Lower	Upper
96	100		
61	115.0	78.0	144.9
68	0.0	0.0	0.0





#27

1,2-Dichloroethane

Concen: 1.538 ug/L

RT: 5.133 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV029507.D

Acq: 09 Dec 2022 04:46

Instrument :

MSVOA_V

ClientSampleId :

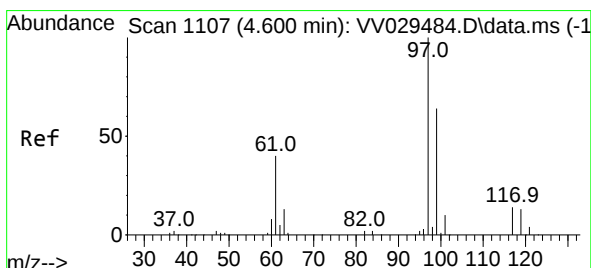
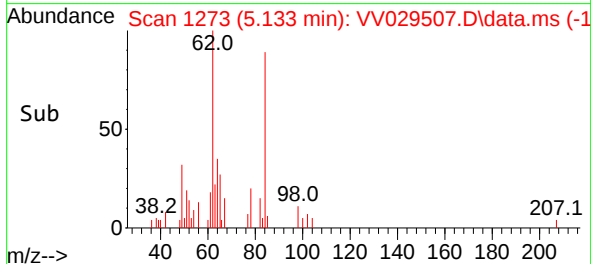
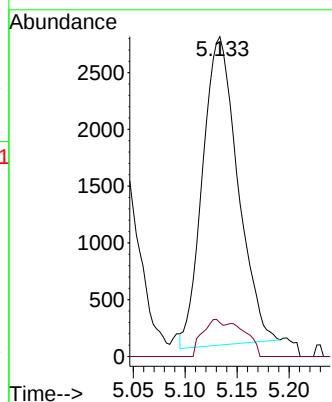
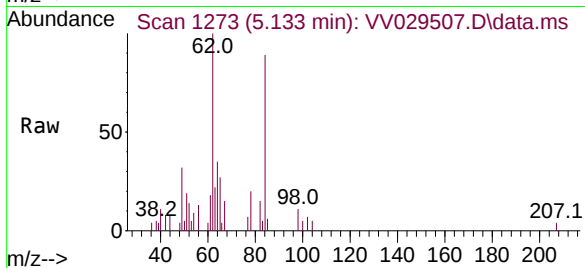
EXZ67

Tgt Ion: 62 Resp: 6384

Ion Ratio Lower Upper

62 100

98 10.5 9.4 14.0



#30

1,1,1-Trichloroethane

Concen: 166.666 ug/L

RT: 4.600 min Scan# 1107

Delta R.T. -0.003 min

Lab File: VV029507.D

Acq: 09 Dec 2022 04:46

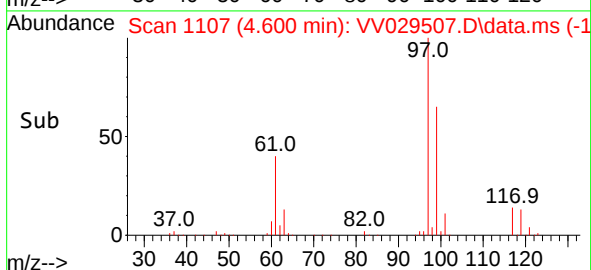
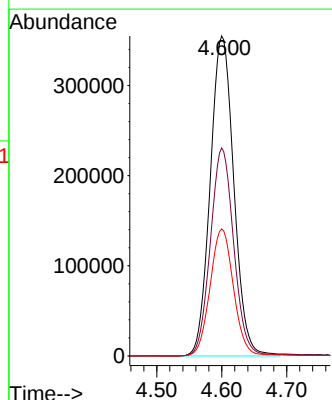
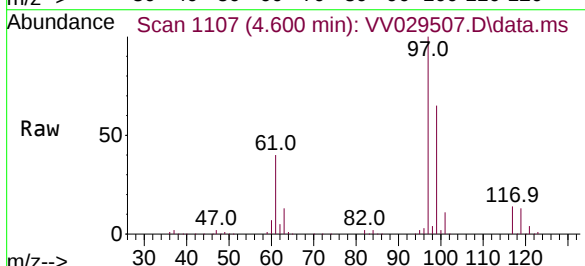
Tgt Ion: 97 Resp: 895960

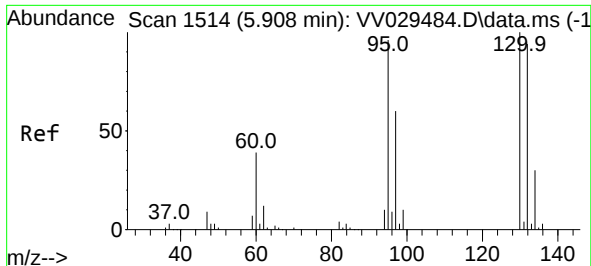
Ion Ratio Lower Upper

97 100

99 64.6 52.1 78.1

61 39.5 31.8 47.8

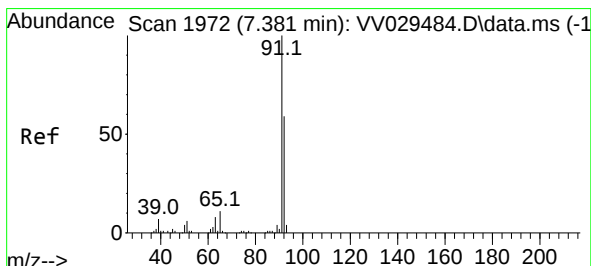
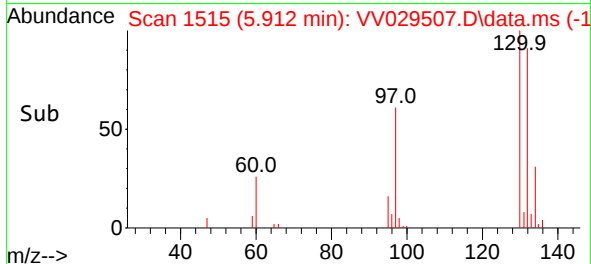
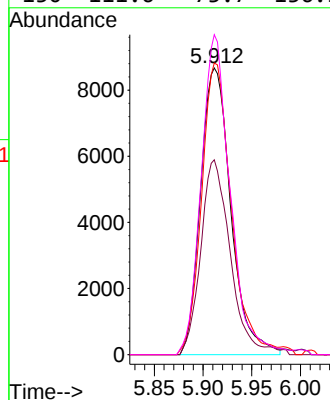
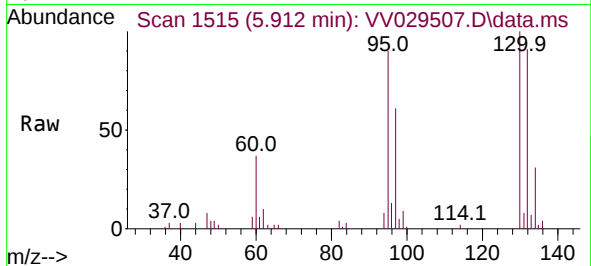




#34
 Trichloroethene
 Concen: 5.383 ug/L
 RT: 5.912 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VV029507.D
 Acq: 09 Dec 2022 04:46

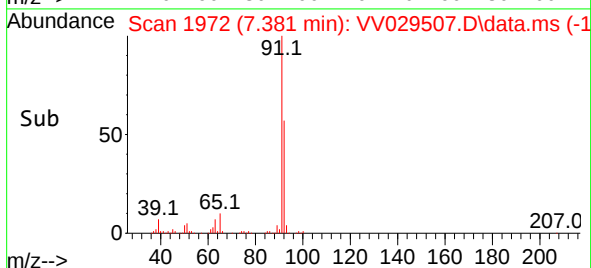
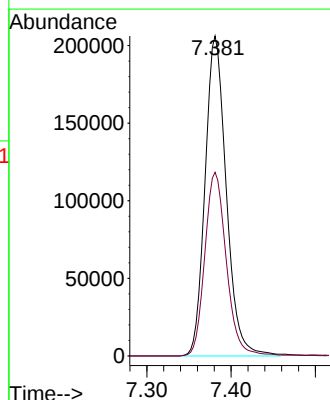
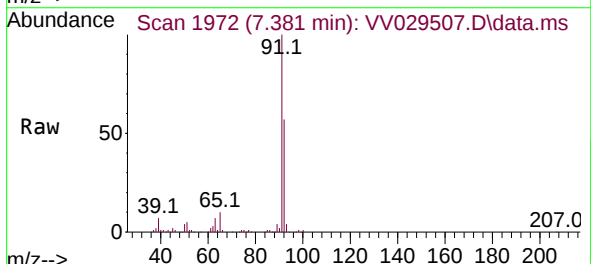
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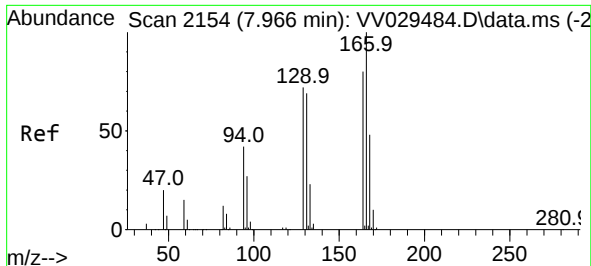
Tgt Ion:	95	Resp:	18761
Ion	Ratio	Lower	Upper
95	100		
97	67.9	44.0	81.8
132	101.7	69.9	129.9
130	111.6	73.7	136.9



#42
 Toluene
 Concen: 24.036 ug/L
 RT: 7.381 min Scan# 1972
 Delta R.T. -0.000 min
 Lab File: VV029507.D
 Acq: 09 Dec 2022 04:46

Tgt Ion:	91	Resp:	359810
Ion	Ratio	Lower	Upper
91	100		
92	57.4	40.6	75.4

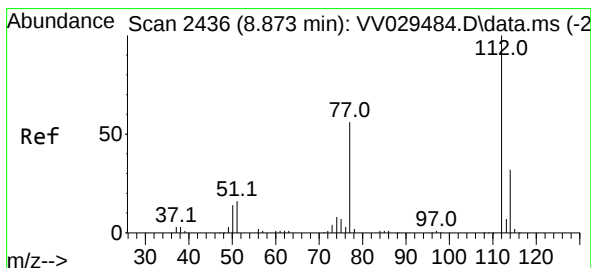
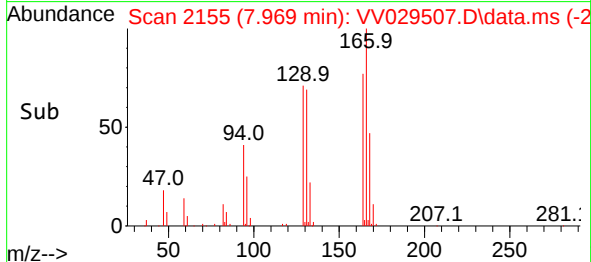
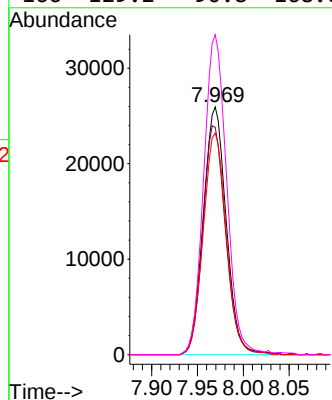
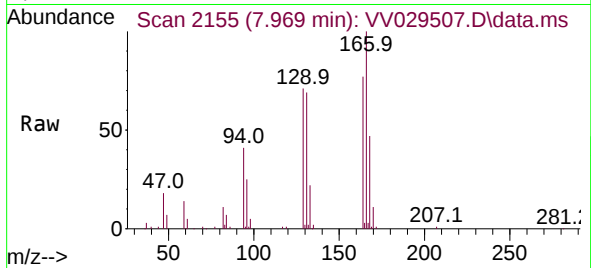




#46
Tetrachloroethene
Concen: 16.139 ug/L
RT: 7.969 min Scan# 2155
Delta R.T. -0.000 min
Lab File: VV029507.D
Acq: 09 Dec 2022 04:46

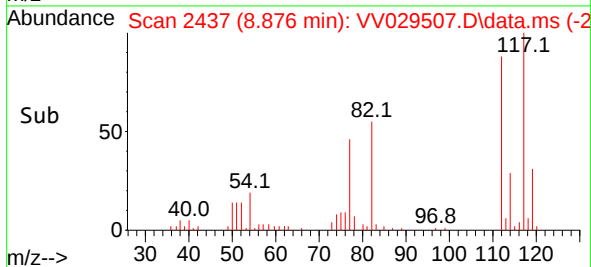
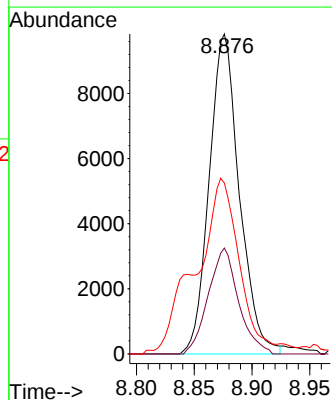
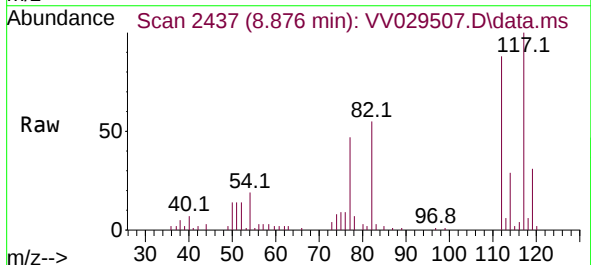
Instrument :
MSVOA_V
ClientSampleId :
EXZ67

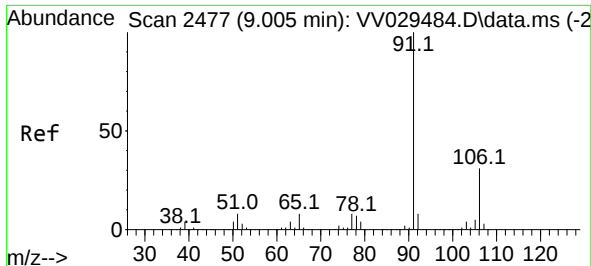
Tgt Ion:164	Resp:	45221
Ion	Ratio	Lower Upper
164	100	
129	91.8	65.3 121.3
131	89.5	63.1 117.1
166	129.2	90.8 168.6



#51
Chlorobenzene
Concen: 1.882 ug/L
RT: 8.876 min Scan# 2437
Delta R.T. 0.003 min
Lab File: VV029507.D
Acq: 09 Dec 2022 04:46

Tgt Ion:112	Resp:	17844
Ion	Ratio	Lower Upper
112	100	
114	33.1	22.3 41.3
77	53.4	45.0 67.4





#52

Ethylbenzene

Concen: 7.715 ug/L

RT: 9.005 min Scan# 24

Delta R.T. -0.000 min

Lab File: VV029507.D

Acq: 09 Dec 2022 04:46

Instrument :

MSVOA_V

ClientSampleId :

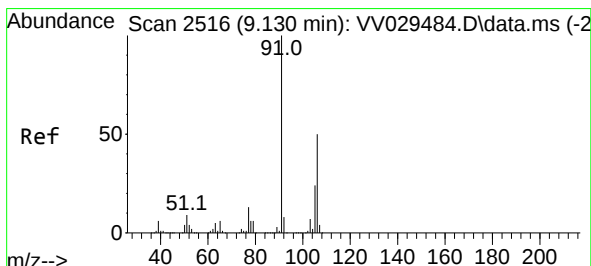
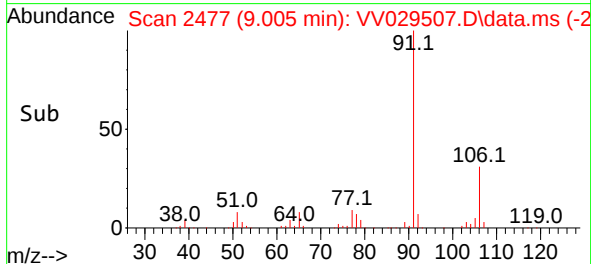
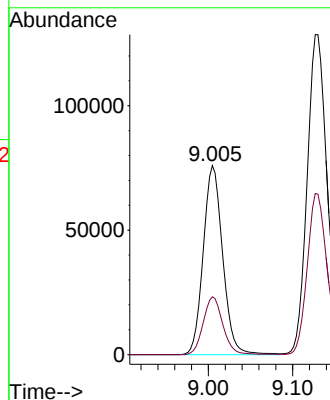
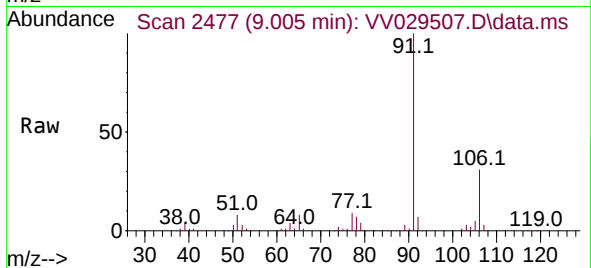
EXZ67

Tgt Ion: 91 Resp: 121422

Ion Ratio Lower Upper

91 100

106 30.6 21.8 40.6



#53

m,p-Xylene

Concen: 17.228 ug/L

RT: 9.127 min Scan# 2515

Delta R.T. -0.003 min

Lab File: VV029507.D

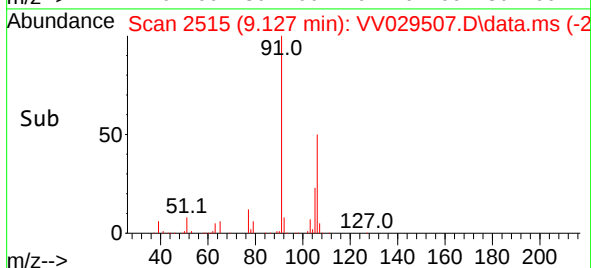
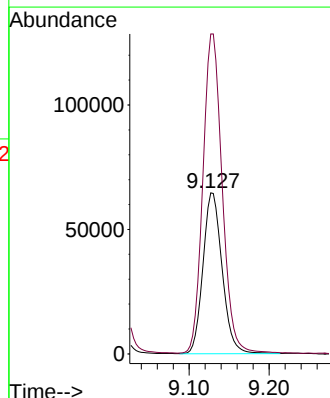
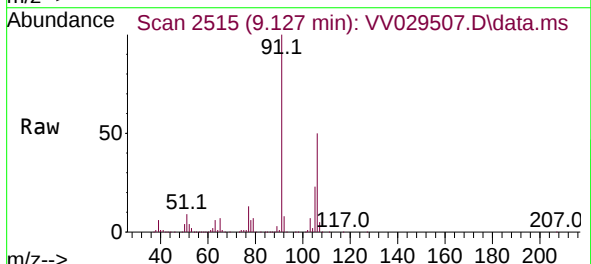
Acq: 09 Dec 2022 04:46

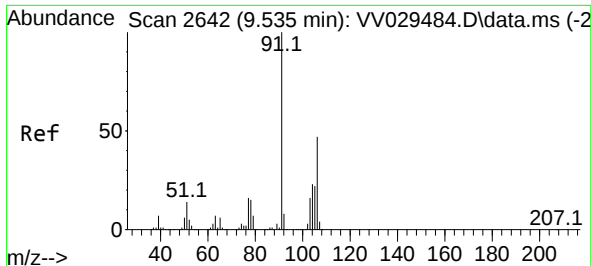
Tgt Ion:106 Resp: 107314

Ion Ratio Lower Upper

106 100

91 198.6 139.5 259.1

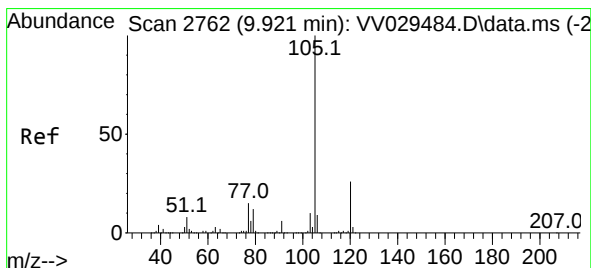
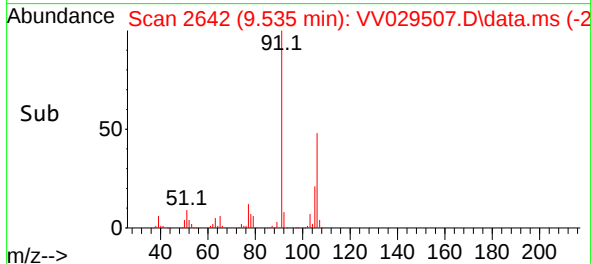
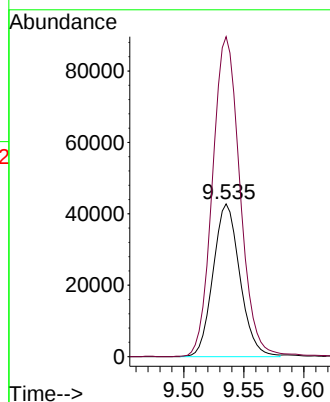
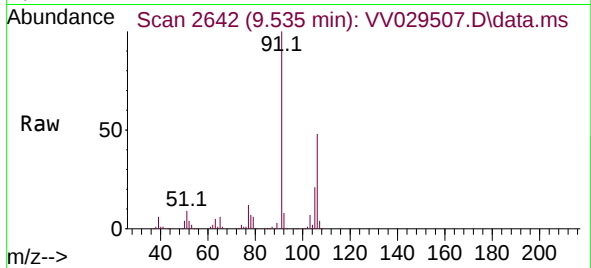




#54
o-Xylene
Concen: 10.785 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. -0.000 min
Lab File: VV029507.D
Acq: 09 Dec 2022 04:46

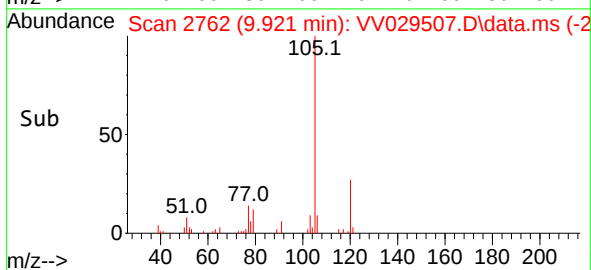
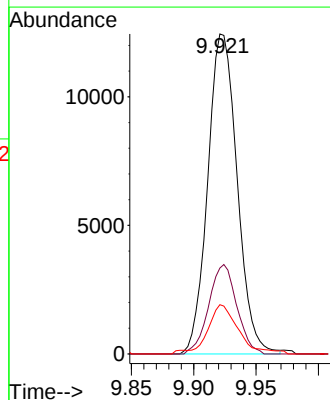
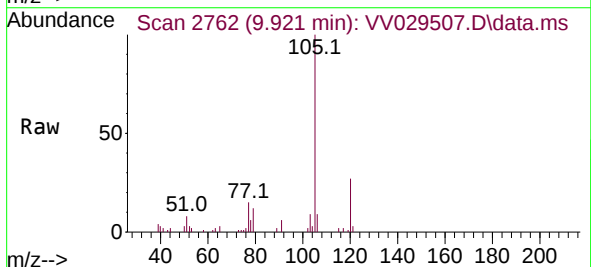
Instrument :
MSVOA_V
ClientSampleId :
EXZ67

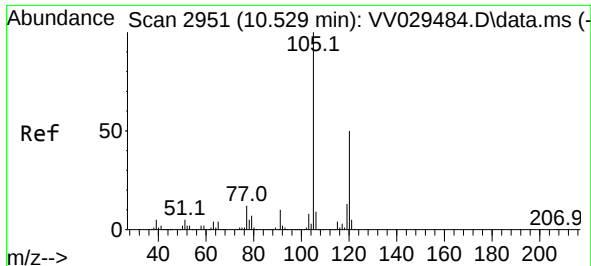
Tgt Ion:106 Resp: 66450
Ion Ratio Lower Upper
106 100
91 209.6 148.0 274.8



#60
Isopropylbenzene
Concen: 1.297 ug/L
RT: 9.921 min Scan# 2762
Delta R.T. -0.000 min
Lab File: VV029507.D
Acq: 09 Dec 2022 04:46

Tgt Ion:105 Resp: 20399
Ion Ratio Lower Upper
105 100
120 26.5 21.1 31.7
77 13.9 11.6 17.4





#62

1,3,5-Trimethylbenzene

Concen: 4.258 ug/L

RT: 10.529 min Scan# 2951

Delta R.T. -0.000 min

Lab File: VV029507.D

Acq: 09 Dec 2022 04:46

Instrument :

MSVOA_V

ClientSampleId :

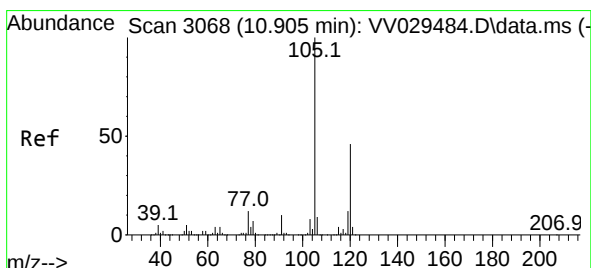
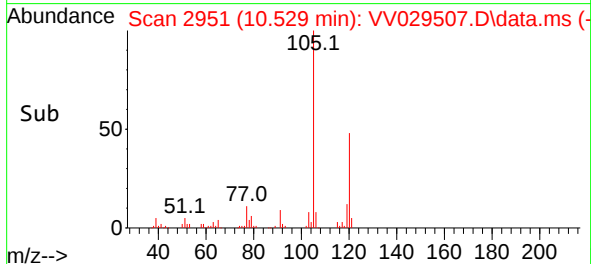
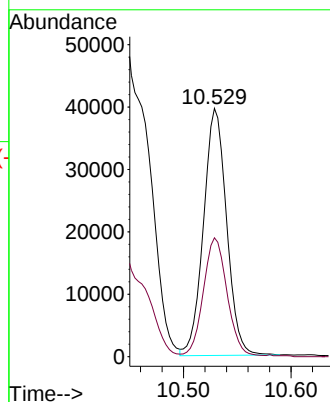
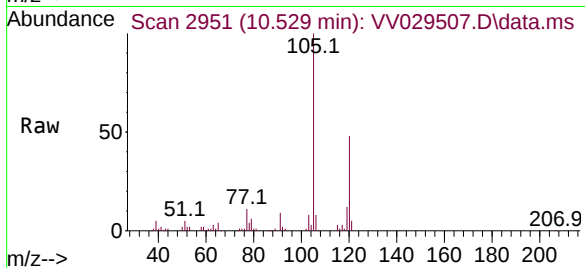
EXZ67

Tgt Ion:105 Resp: 59196

Ion Ratio Lower Upper

105 100

120 48.7 40.0 60.0



#63

1,2,4-Trimethylbenzene

Concen: 22.691 ug/L

RT: 10.905 min Scan# 3068

Delta R.T. -0.000 min

Lab File: VV029507.D

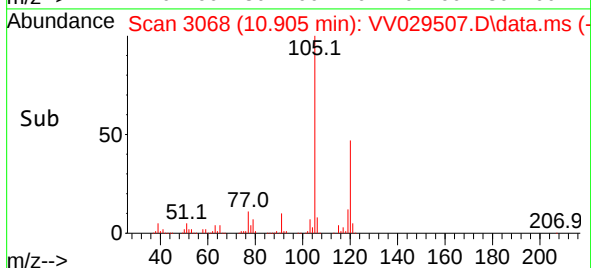
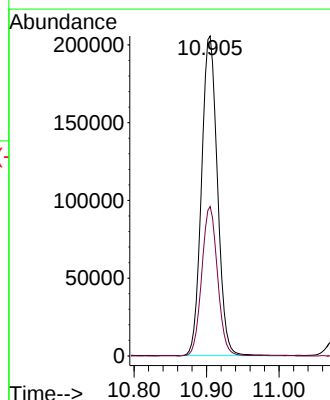
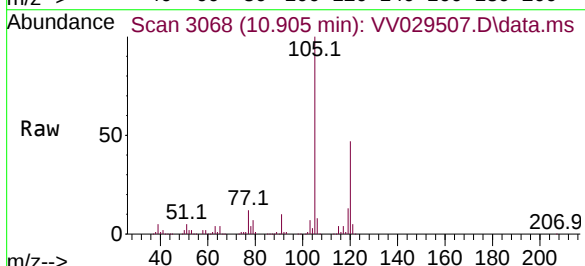
Acq: 09 Dec 2022 04:46

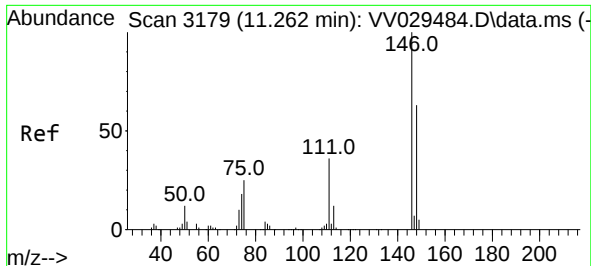
Tgt Ion:105 Resp: 312710

Ion Ratio Lower Upper

105 100

120 46.4 36.7 55.1

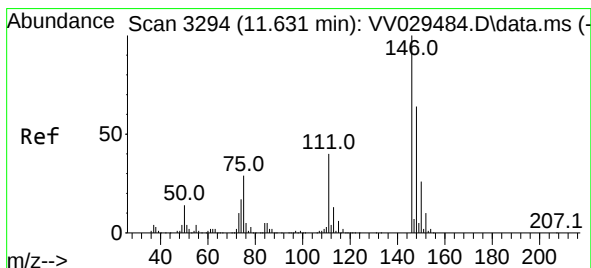
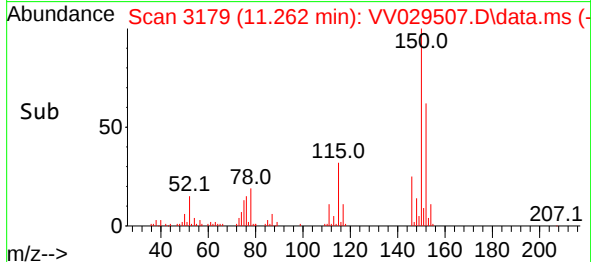
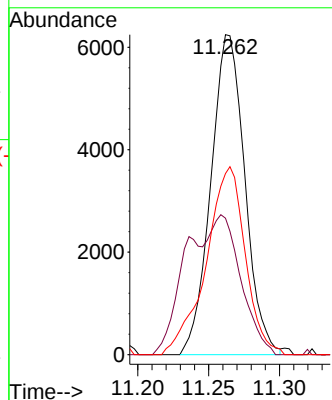
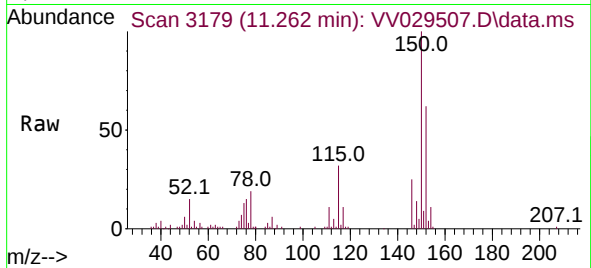




#65
1,4-Dichlorobenzene
Concen: 1.335 ug/L
RT: 11.262 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VV029507.D
Acq: 09 Dec 2022 04:46

Instrument :
MSVOA_V
ClientSampleId :
EXZ67

Tgt Ion:146 Resp: 10429
Ion Ratio Lower Upper
146 100
111 42.6 26.2 48.8
148 56.6 44.7 83.1



#67
1,2-Dichlorobenzene
Concen: 3.408 ug/L
RT: 11.632 min Scan# 3294
Delta R.T. -0.000 min
Lab File: VV029507.D
Acq: 09 Dec 2022 04:46

Tgt Ion:146 Resp: 26796
Ion Ratio Lower Upper
146 100
111 42.5 32.0 48.0
148 65.7 50.6 76.0

