

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120922\
 Data File : VW029572.D
 Acq On : 10 Dec 2022 11:43
 Operator : SY/MD
 Sample : N5929-15
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXZB7

Quant Time: Dec 12 00:05:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Dec 10 07:45:47 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	526785	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	494061	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.236	152	271139	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	141662	43.915	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.840%
7) Chloroethane-d5	1.564	69	113704	46.225	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.460%
11) 1,1-Dichloroethene-d2	2.108	63	187494	37.265	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.520%
21) 2-Butanone-d5	3.873	46	212874	108.177	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.180%
24) Chloroform-d	4.339	84	250414	41.252	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.500%
26) 1,2-Dichloroethane-d4	5.024	65	152113	43.875	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.740%
32) Benzene-d6	5.043	84	535435	41.014	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.020%
36) 1,2-Dichloropropane-d6	6.063	67	167479	42.000	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.000%
41) Toluene-d8	7.307	98	486622	39.561	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.120%#
43) trans-1,3-Dichloroprop...	7.612	79	66267	32.910	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.820%
47) 2-Hexanone-d5	8.082	63	169664	99.638	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.640%
56) 1,1,2,2-Tetrachloroeth...	10.204	84	244902	42.978	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.960%
66) 1,2-Dichlorobenzene-d4	11.612	152	213931	41.448	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.900%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.310	62	1274794	322.065	ug/L	98
8) Chloroethane	1.580	64	717306	325.450	ug/L	99
12) 1,1-Dichloroethene	2.117	96	30363	10.783	ug/L #	2
13) Acetone	2.162	43	8625	6.728	ug/L	98
16) Methylene chloride	2.503	84	12322	3.519	ug/L	93
17) trans-1,2-Dichloroethene	2.757	96	116410	35.880	ug/L	96
19) 1,1-Dichloroethane	3.182	63	9377671	1687.185	ug/L	97
20) cis-1,2-Dichloroethene	3.902	96	5981136	1676.492	ug/L	94
27) 1,2-Dichloroethane	5.124	62	54421	13.370	ug/L	97
30) 1,1,1-Trichloroethane	4.600	97	159689	29.667	ug/L	99
33) Benzene	5.098	78	40289	2.893	ug/L	100
34) Trichloroethene	5.908	95	131889	37.794	ug/L	98
42) Toluene	7.381	91	119365	7.963	ug/L	98
45) 1,1,2-Trichloroethane	7.831	97	26156	7.532	ug/L	97
46) Tetrachloroethene	7.969	164	6553	2.336	ug/L	95
52) Ethylbenzene	9.005	91	133218	8.454	ug/L	99
53) m,p-Xylene	9.130	106	55104	8.835	ug/L	99
54) o-Xylene	9.532	106	299280	48.509	ug/L	99
60) Isopropylbenzene	9.921	105	35802	2.249	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Sat Dec 10 07:45:47 2022
Response via : Initial Calibration

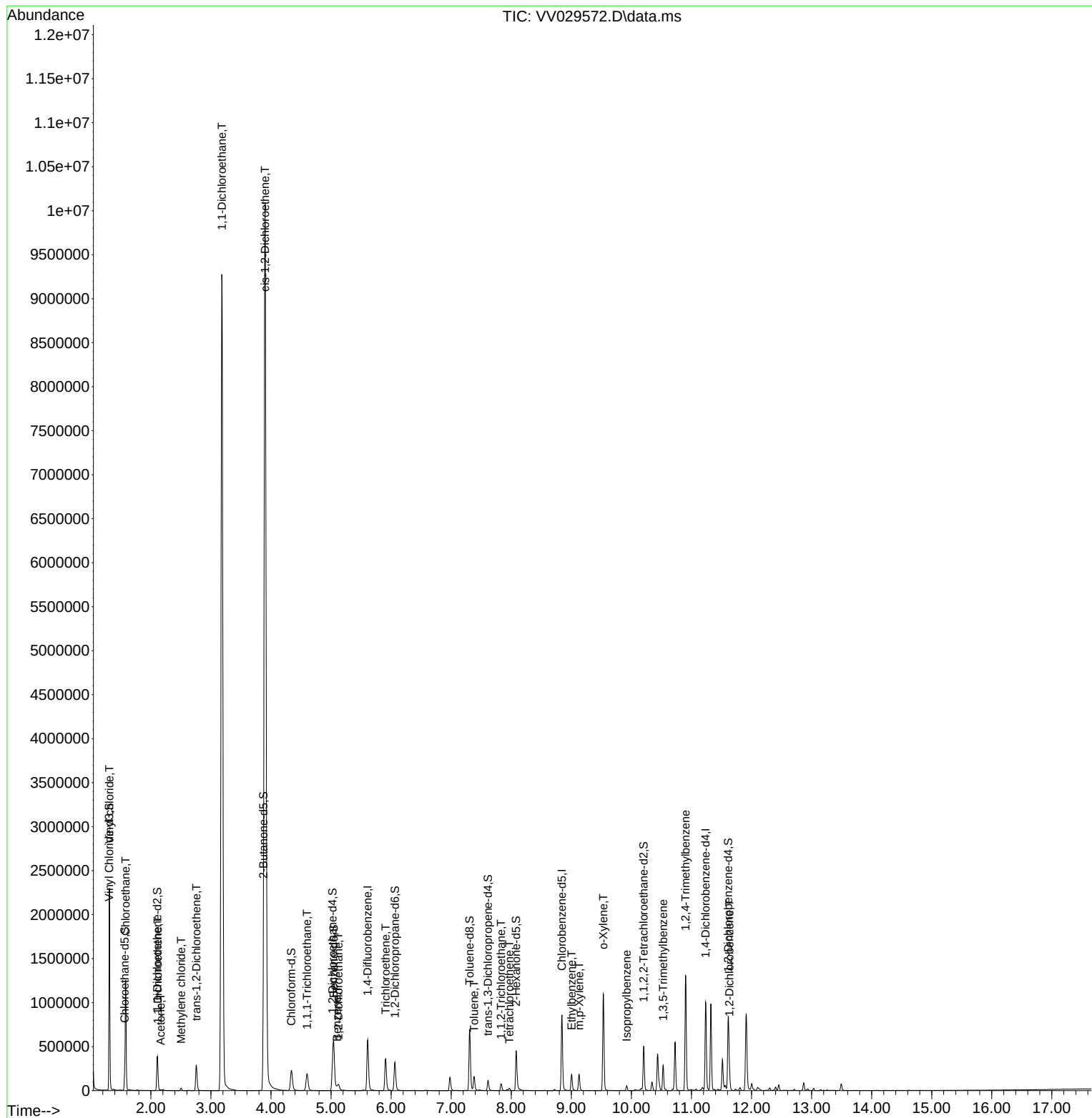
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	10.529	105	155399	11.041	ug/L	100
63) 1,2,4-Trimethylbenzene	10.902	105	706269	50.620	ug/L	99
67) 1,2-Dichlorobenzene	11.632	146	47647	5.986	ug/L	98

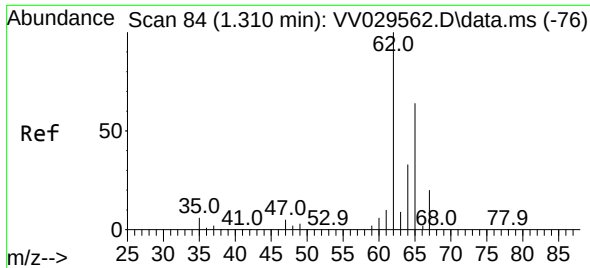
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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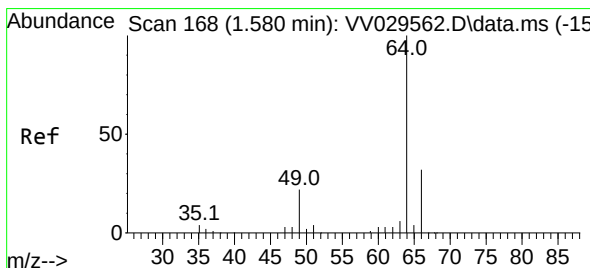
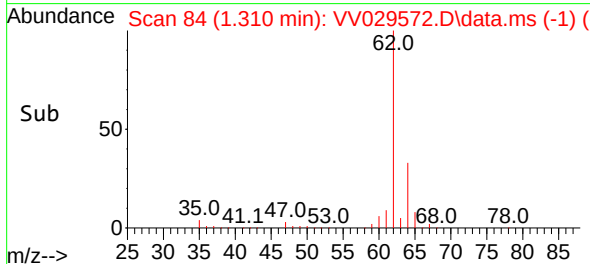
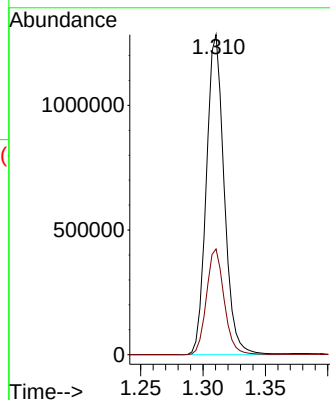
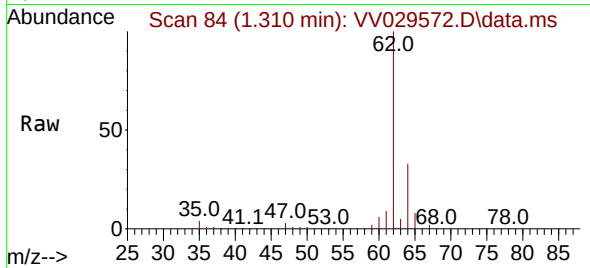




#5
 Vinyl chloride
 Concen: 322.065 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.000 min
 Lab File: VV029572.D
 Acq: 10 Dec 2022 11:43

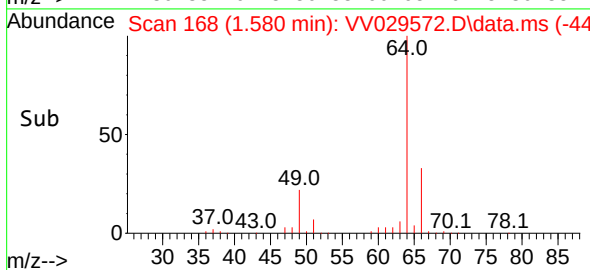
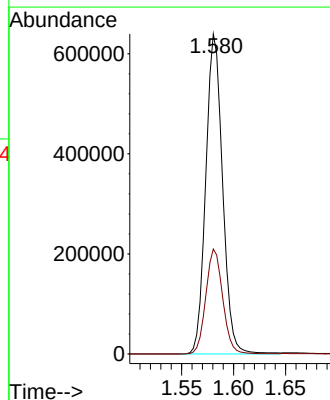
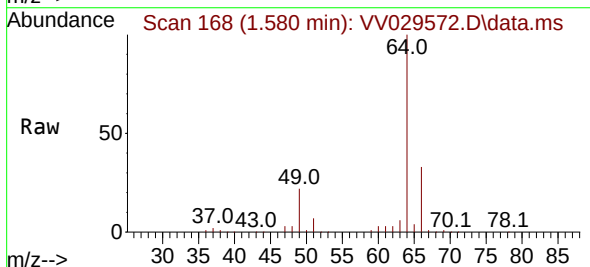
Instrument :
 MSVOA_V
 ClientSampleId :
 EXZB7

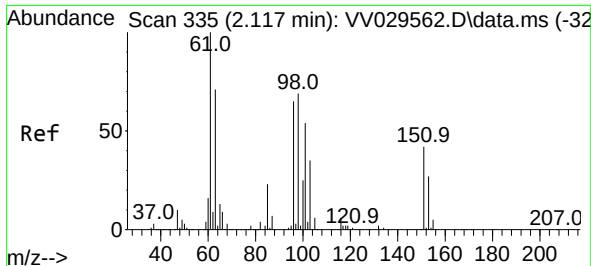
Tgt Ion: 62 Resp: 1274794
 Ion Ratio Lower Upper
 62 100
 64 33.1 22.5 41.9



#8
 Chloroethane
 Concen: 325.450 ug/L
 RT: 1.580 min Scan# 168
 Delta R.T. 0.000 min
 Lab File: VV029572.D
 Acq: 10 Dec 2022 11:43

Tgt Ion: 64 Resp: 717306
 Ion Ratio Lower Upper
 64 100
 66 32.8 22.5 41.9





#12

1,1-Dichloroethene

Concen: 10.783 ug/L

RT: 2.117 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV029572.D

Acq: 10 Dec 2022 11:43

Instrument :

MSVOA_V

ClientSampleId :

EXZB7

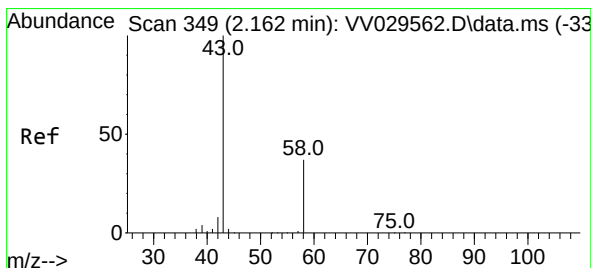
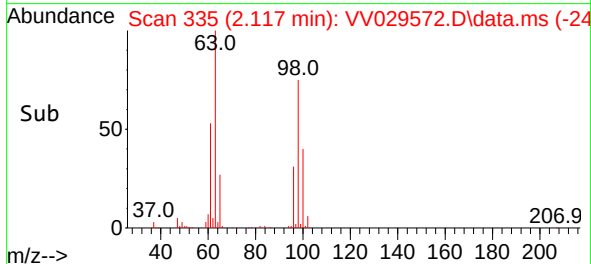
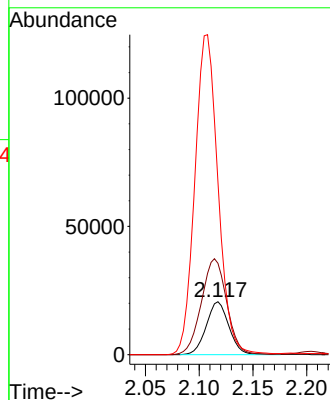
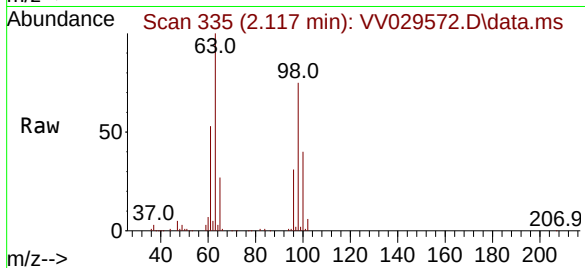
Tgt Ion: 96 Resp: 30363

Ion Ratio Lower Upper

96 100

61 172.5 103.3 191.9

63 326.1 77.3 143.7#



#13

Acetone

Concen: 6.728 ug/L

RT: 2.162 min Scan# 349

Delta R.T. 0.000 min

Lab File: VV029572.D

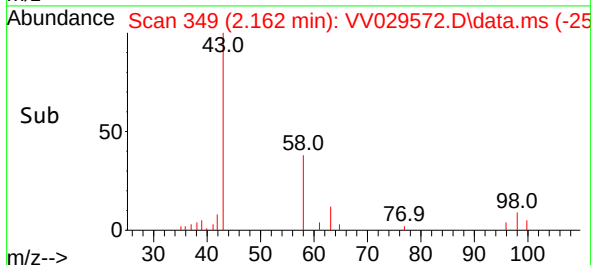
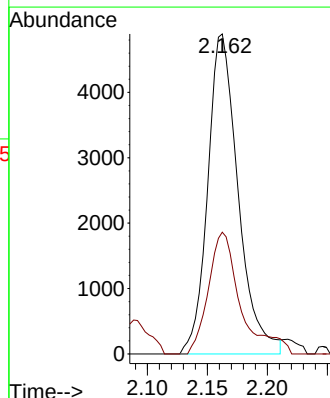
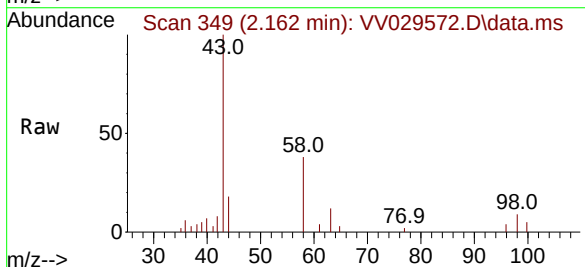
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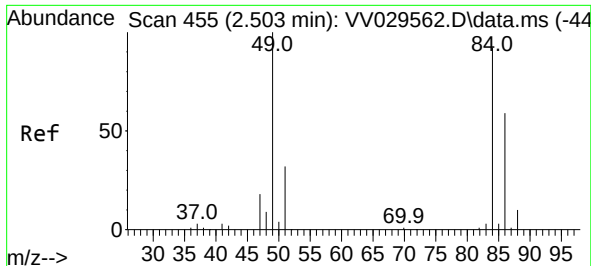
Tgt Ion: 43 Resp: 8625

Ion Ratio Lower Upper

43 100

58 35.9 0.0 74.8

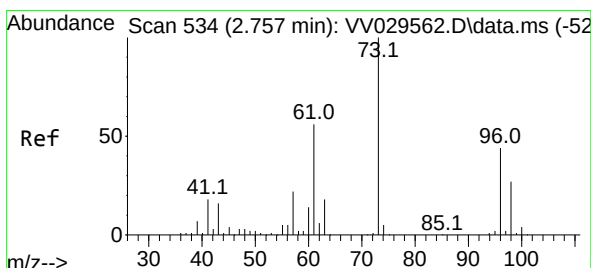
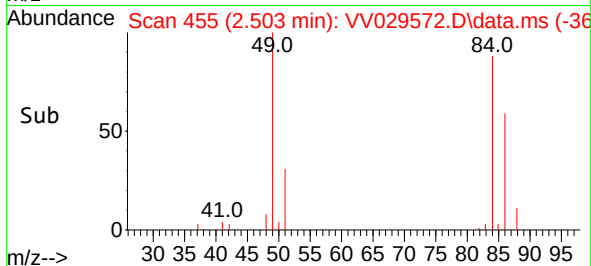
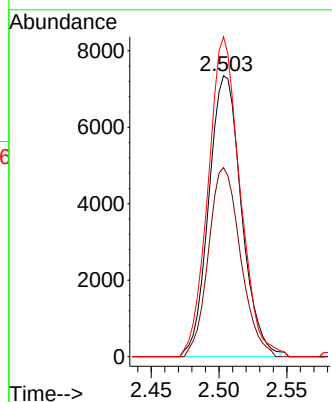
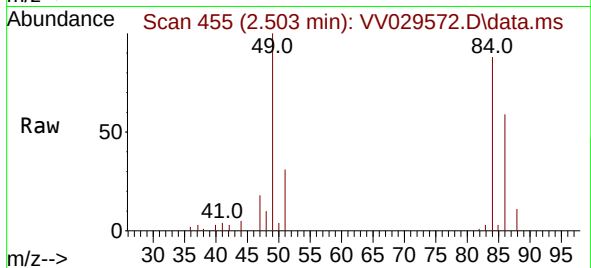




#16
Methylene chloride
Concen: 3.519 ug/L
RT: 2.503 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

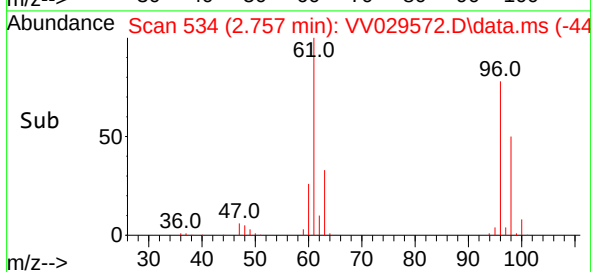
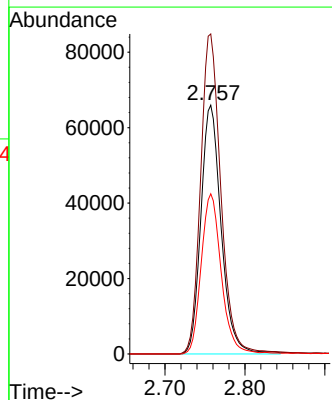
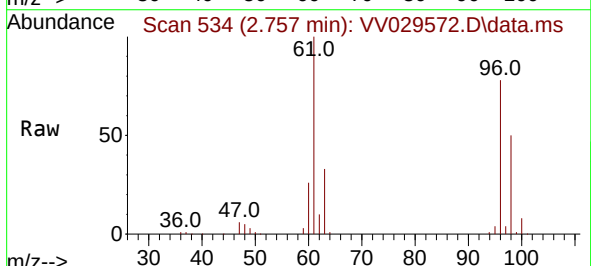
Instrument :
MSVOA_V
ClientSampleId :
EXZB7

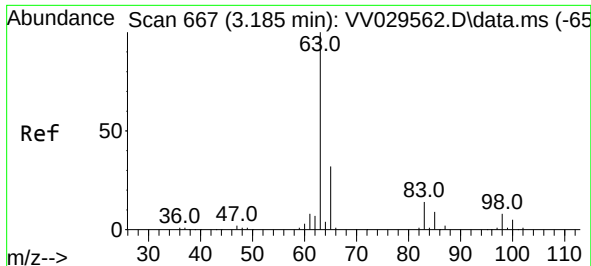
Tgt Ion: 84 Resp: 12322
Ion Ratio Lower Upper
84 100
86 67.3 46.0 85.4
49 113.9 72.2 134.0



#17
trans-1,2-Dichloroethene
Concen: 35.880 ug/L
RT: 2.757 min Scan# 534
Delta R.T. 0.000 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

Tgt Ion: 96 Resp: 116410
Ion Ratio Lower Upper
96 100
61 128.7 86.4 160.4
98 64.4 43.4 80.6





#19

1,1-Dichloroethane

Concen: 1687.185 ug/L

RT: 3.182 min Scan# 6

Delta R.T. -0.003 min

Lab File: VV029572.D

Acq: 10 Dec 2022 11:43

Instrument :

MSVOA_V

ClientSampleId :

EXZB7

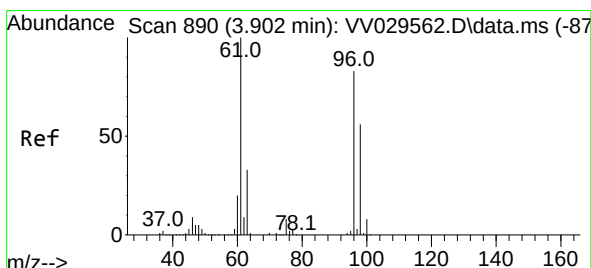
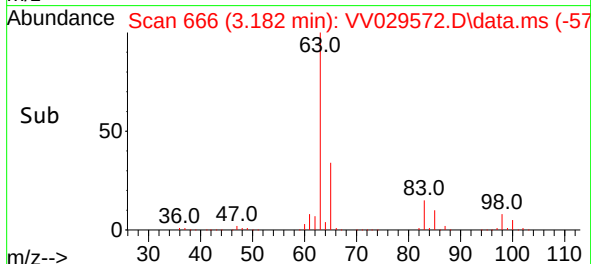
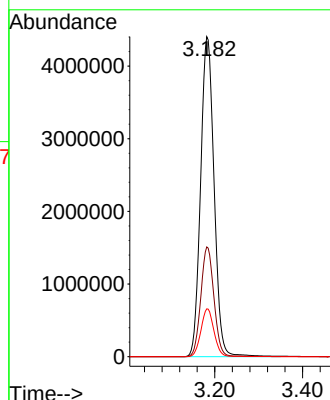
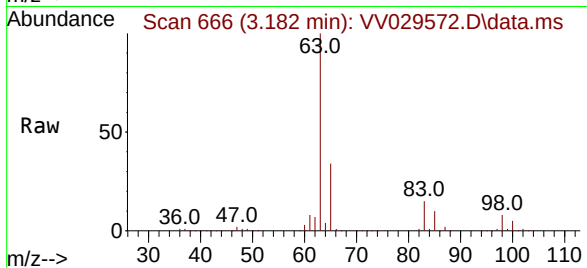
Tgt Ion: 63 Resp: 9377671

Ion Ratio Lower Upper

63 100

65 34.3 22.5 41.7

83 14.9 10.4 19.2



#20

cis-1,2-Dichloroethene

Concen: 1676.492 ug/L

RT: 3.902 min Scan# 890

Delta R.T. 0.000 min

Lab File: VV029572.D

Acq: 10 Dec 2022 11:43

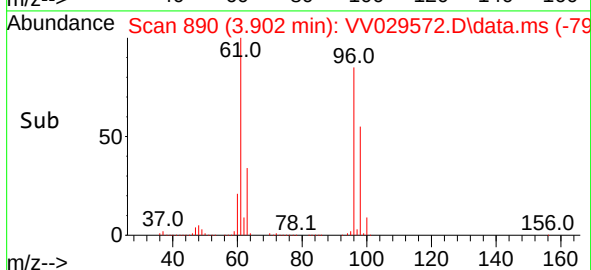
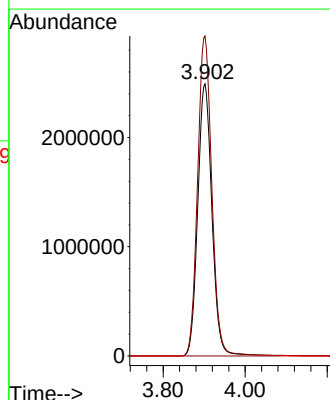
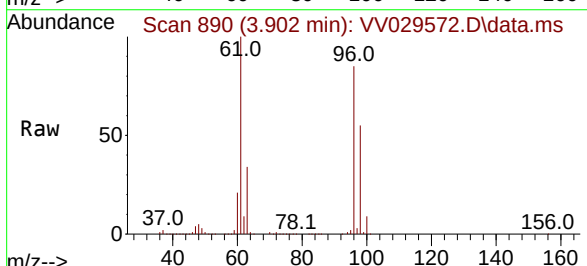
Tgt Ion: 96 Resp: 5981136

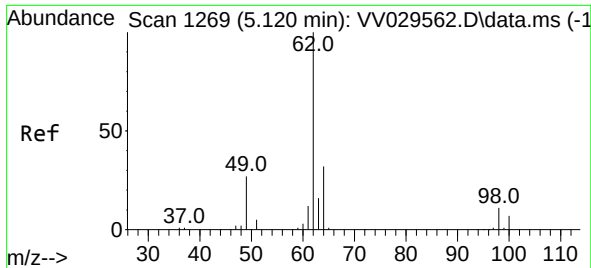
Ion Ratio Lower Upper

96 100

61 117.6 78.0 144.9

68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 13.370 ug/L

RT: 5.124 min Scan# 1107

Delta R.T. 0.003 min

Lab File: VV029572.D

Acq: 10 Dec 2022 11:43

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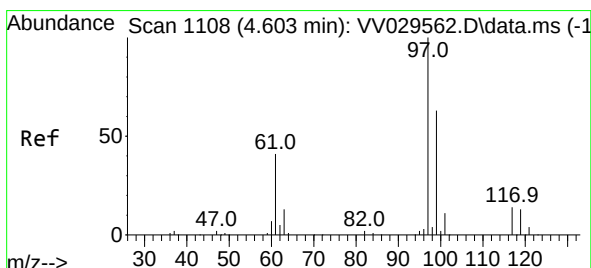
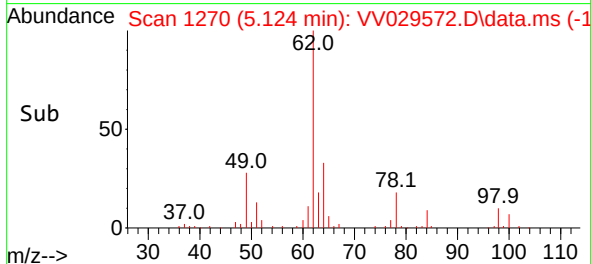
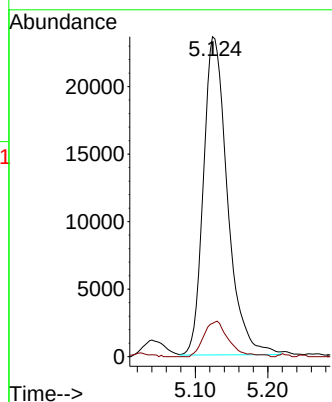
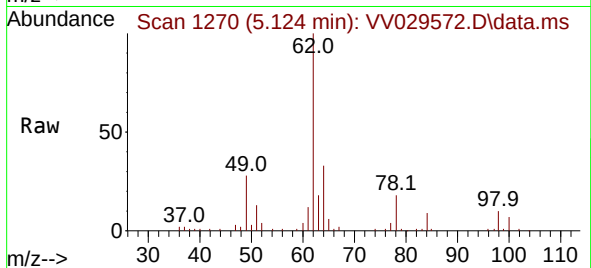
EXZB7

Tgt Ion: 62 Resp: 54421

Ion Ratio Lower Upper

62 100

98 10.4 9.4 14.0



#30

1,1,1-Trichloroethane

Concen: 29.667 ug/L

RT: 4.600 min Scan# 1107

Delta R.T. -0.003 min

Lab File: VV029572.D

Acq: 10 Dec 2022 11:43

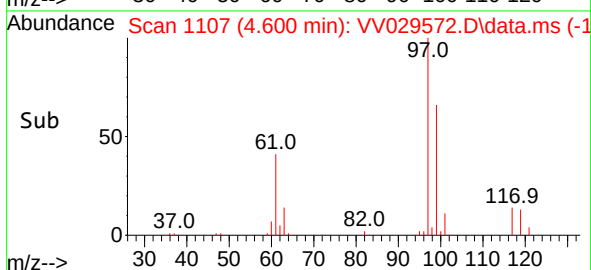
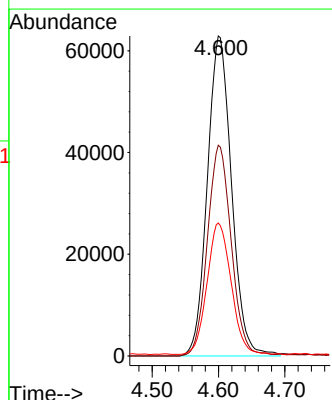
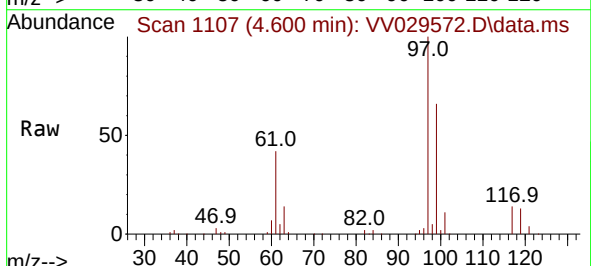
Tgt Ion: 97 Resp: 159689

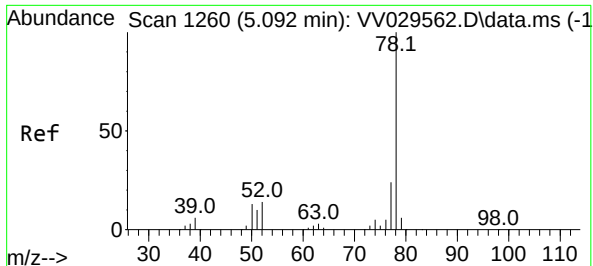
Ion Ratio Lower Upper

97 100

99 64.9 52.1 78.1

61 40.6 31.8 47.8

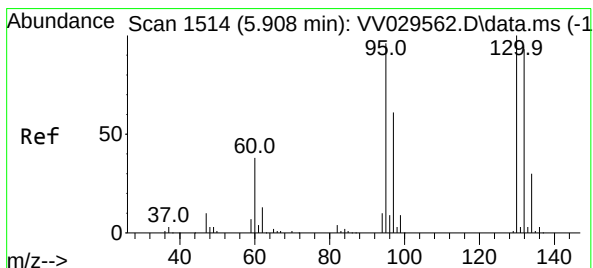
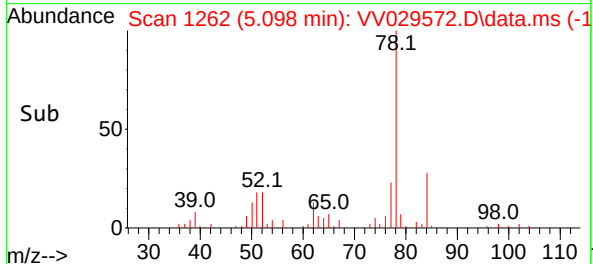
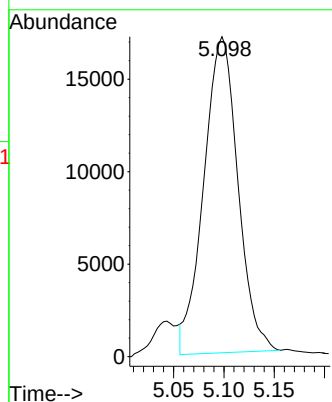
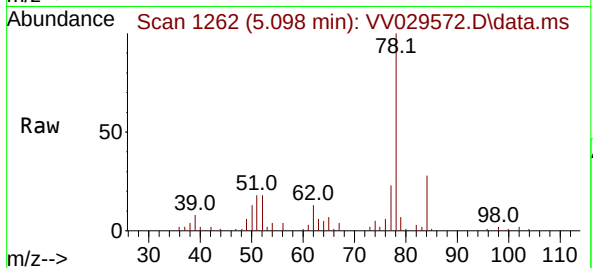




#33
Benzene
Concen: 2.893 ug/L
RT: 5.098 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

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ClientSampleId :
EXZB7

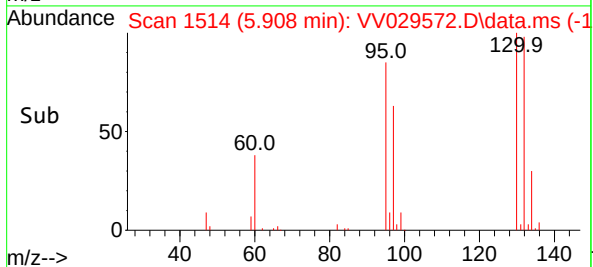
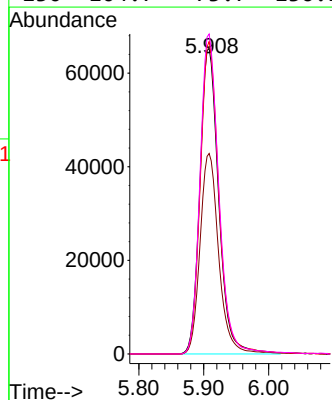
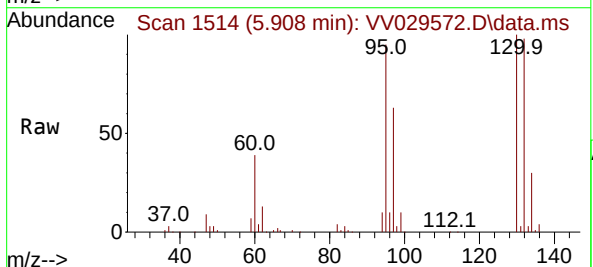
Tgt Ion: 78 Resp: 40289

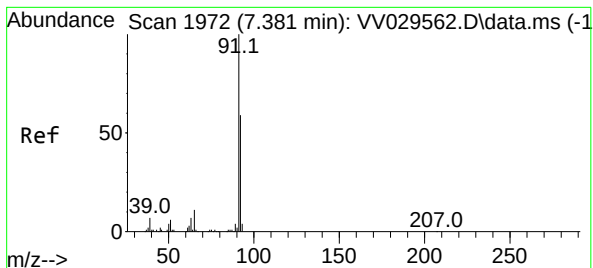


#34
Trichloroethene
Concen: 37.794 ug/L
RT: 5.908 min Scan# 1514
Delta R.T. 0.000 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

Tgt Ion: 95 Resp: 131889

Ion	Ratio	Lower	Upper
95	100		
97	65.6	44.0	81.8
132	102.2	69.9	129.9
130	104.7	73.7	136.9





#42

Toluene

Concen: 7.963 ug/L

RT: 7.381 min Scan# 1972

Delta R.T. 0.000 min

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Acq: 10 Dec 2022 11:43

Instrument :

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ClientSampleId :

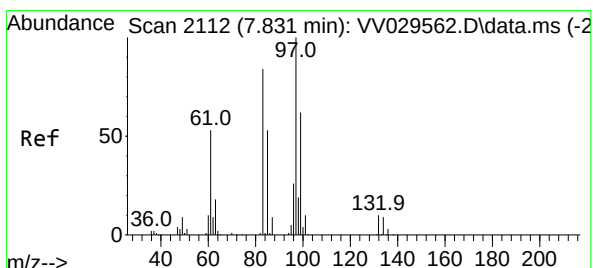
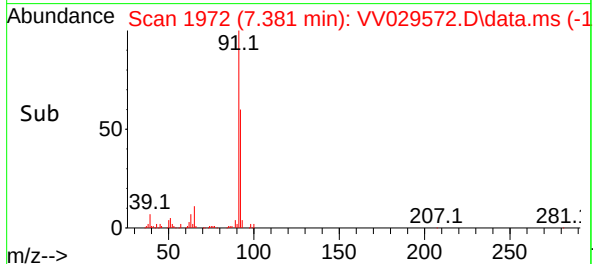
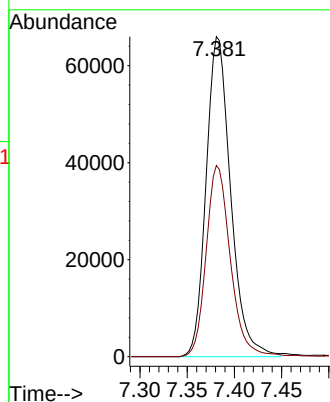
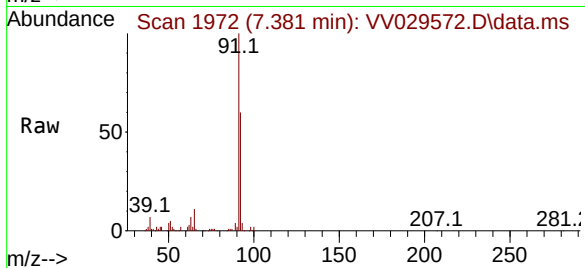
EXZB7

Tgt Ion: 91 Resp: 119365

Ion Ratio Lower Upper

91 100

92 59.8 40.6 75.4



#45

1,1,2-Trichloroethane

Concen: 7.532 ug/L

RT: 7.831 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VV029572.D

Acq: 10 Dec 2022 11:43

Tgt Ion: 97 Resp: 26156

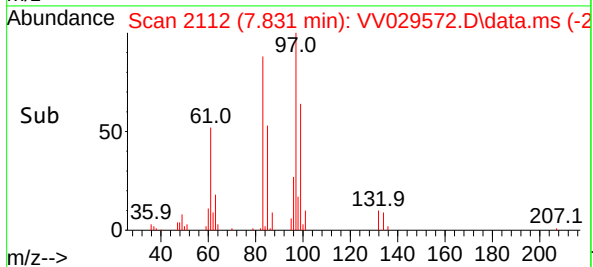
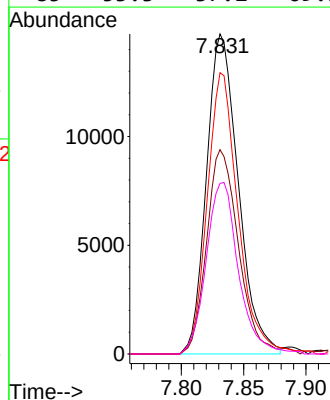
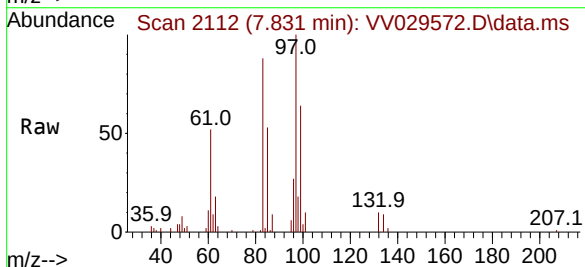
Ion Ratio Lower Upper

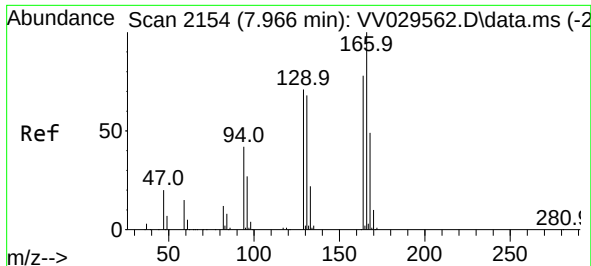
97 100

99 63.8 43.8 81.3

83 87.9 58.6 108.8

85 53.3 37.2 69.2

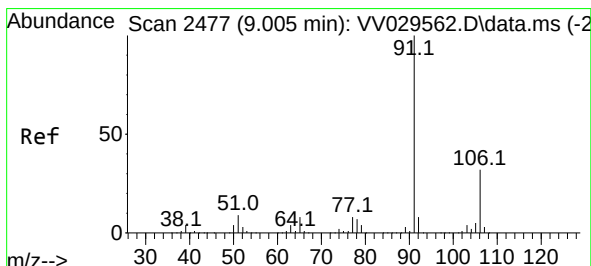
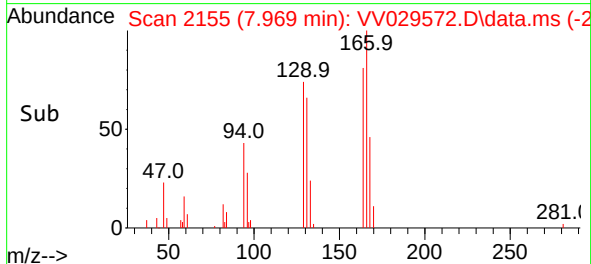
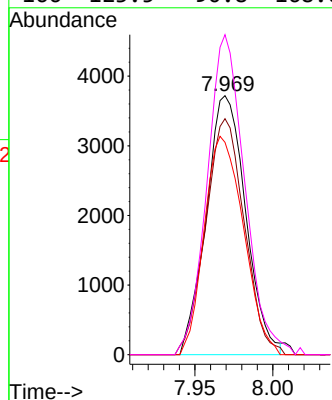
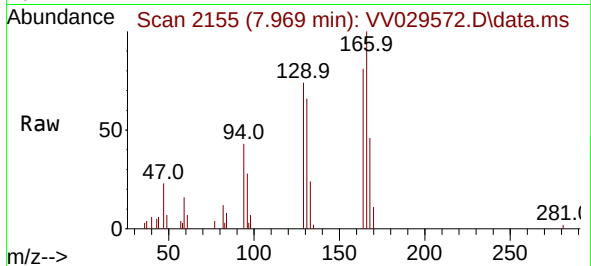




#46
Tetrachloroethene
Concen: 2.336 ug/L
RT: 7.969 min Scan# 2155
Delta R.T. 0.003 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

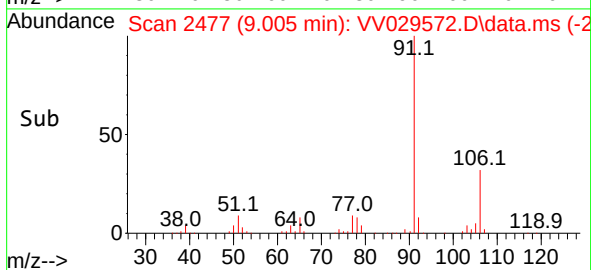
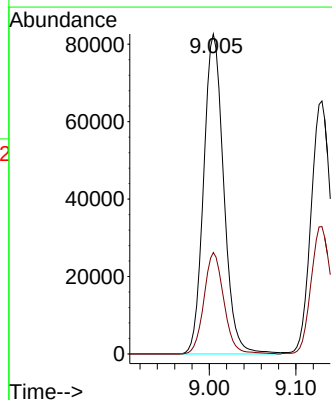
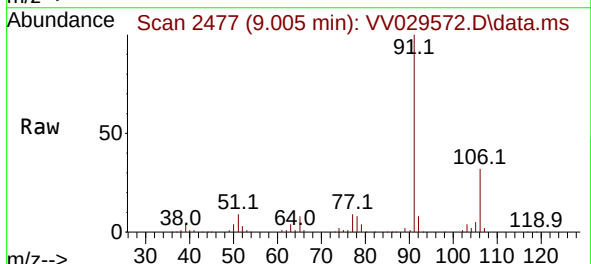
Instrument :
MSVOA_V
ClientSampleId :
EXZB7

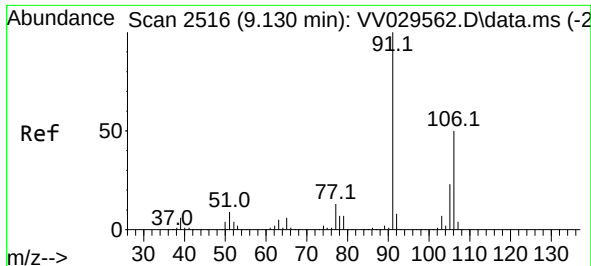
Tgt Ion:164 Resp: 6553
Ion Ratio Lower Upper
164 100
129 91.1 65.3 121.3
131 81.9 63.1 117.1
166 123.5 90.8 168.6



#52
Ethylbenzene
Concen: 8.454 ug/L
RT: 9.005 min Scan# 2477
Delta R.T. 0.000 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

Tgt Ion: 91 Resp: 133218
Ion Ratio Lower Upper
91 100
106 31.7 21.8 40.6

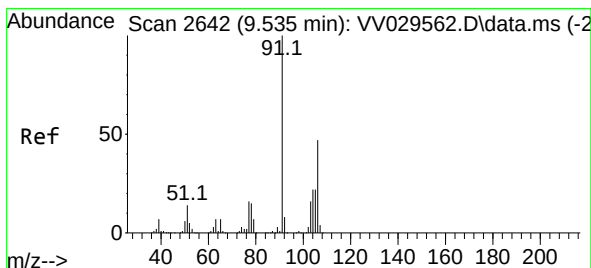
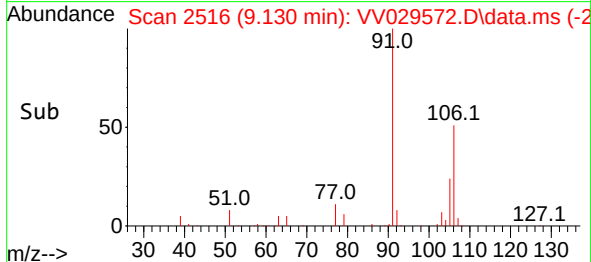
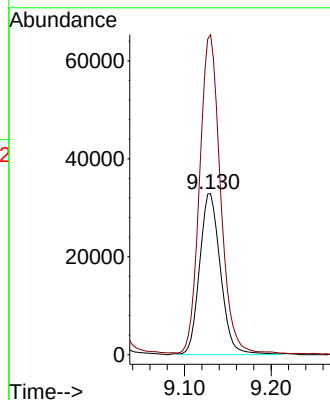
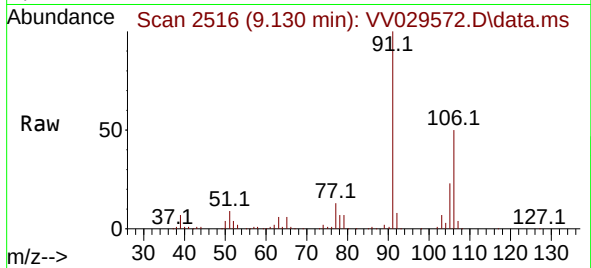




#53
m,p-Xylene
Concen: 8.835 ug/L
RT: 9.130 min Scan# 2516
Delta R.T. 0.000 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

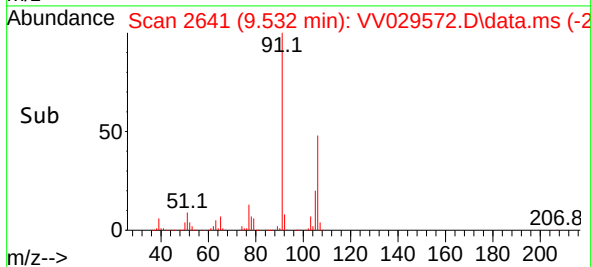
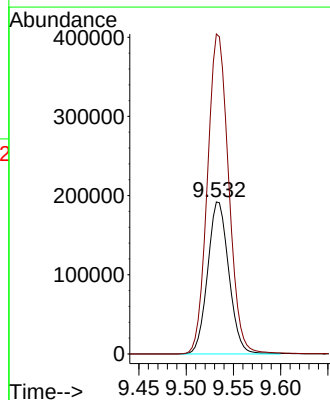
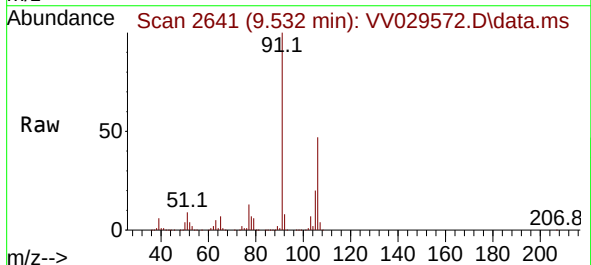
Instrument :
MSVOA_V
ClientSampleId :
EXZB7

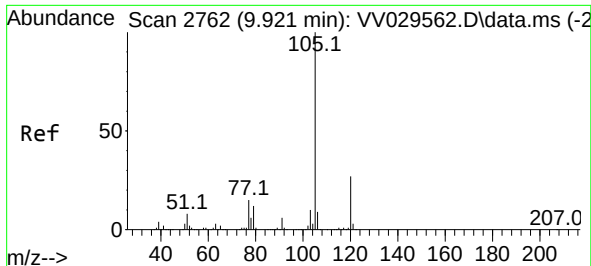
Tgt Ion:106 Resp: 55104
Ion Ratio Lower Upper
106 100
91 198.5 139.5 259.1



#54
o-Xylene
Concen: 48.509 ug/L
RT: 9.532 min Scan# 2641
Delta R.T. -0.003 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

Tgt Ion:106 Resp: 299280
Ion Ratio Lower Upper
106 100
91 210.6 148.0 274.8

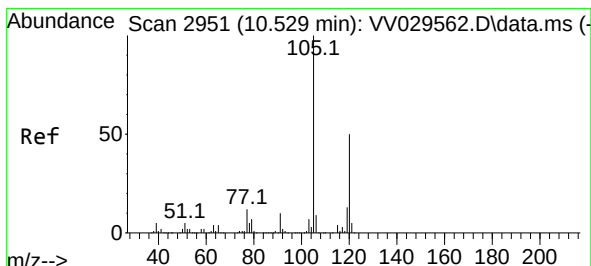
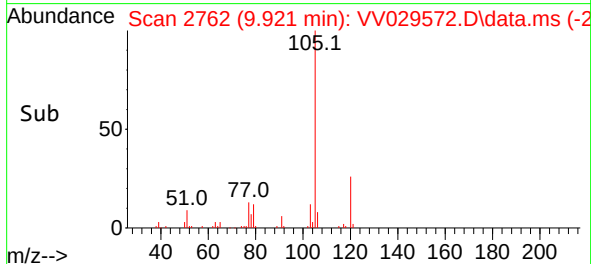
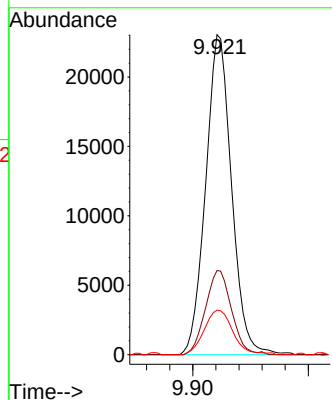
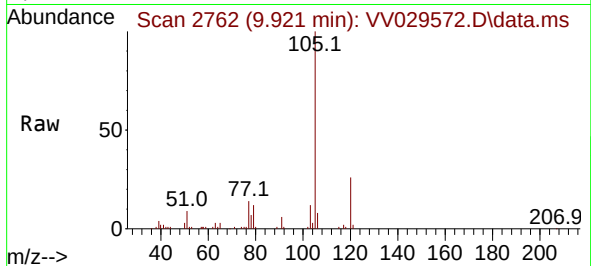




#60
Isopropylbenzene
Concen: 2.249 ug/L
RT: 9.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

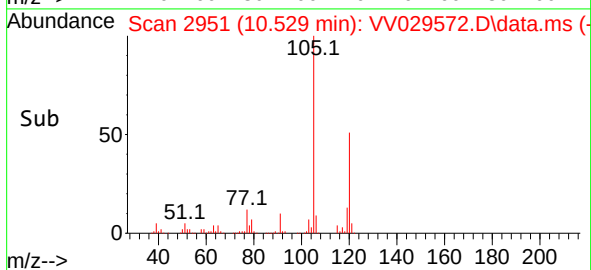
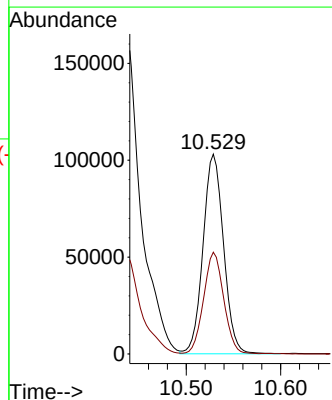
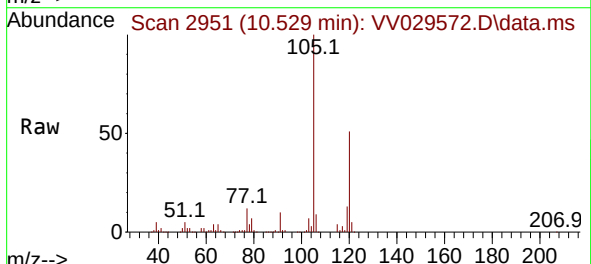
Instrument :
MSVOA_V
ClientSampleId :
EXZB7

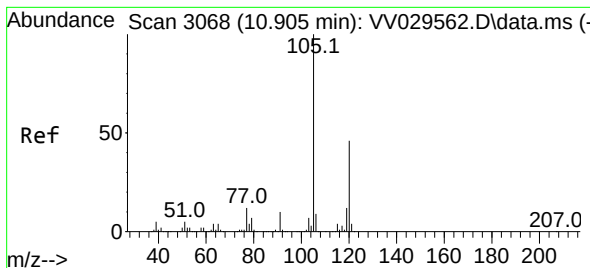
Tgt Ion:105 Resp: 35802
Ion Ratio Lower Upper
105 100
120 26.5 21.1 31.7
77 15.2 11.6 17.4



#62
1,3,5-Trimethylbenzene
Concen: 11.041 ug/L
RT: 10.529 min Scan# 2951
Delta R.T. 0.000 min
Lab File: VV029572.D
Acq: 10 Dec 2022 11:43

Tgt Ion:105 Resp: 155399
Ion Ratio Lower Upper
105 100
120 50.1 40.0 60.0





#63

1,2,4-Trimethylbenzene

Concen: 50.620 ug/L

RT: 10.902 min Scan# 3068

Delta R.T. -0.003 min

Lab File: VV029572.D

Acq: 10 Dec 2022 11:43

Instrument :

MSVOA_V

ClientSampleId :

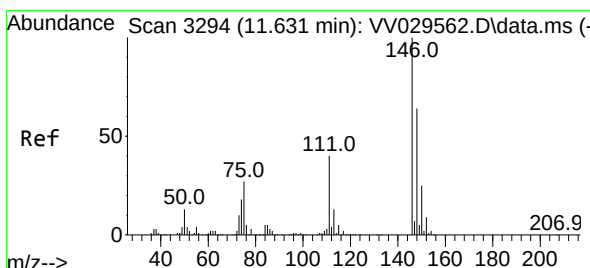
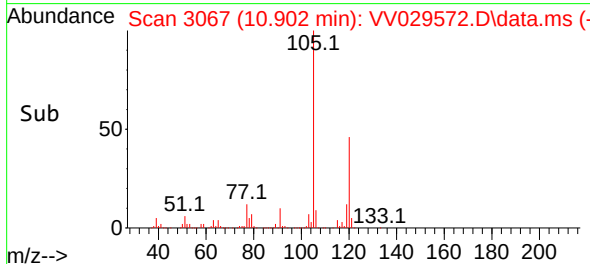
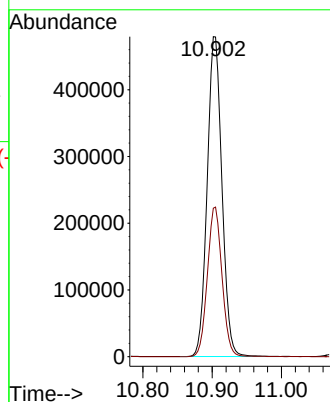
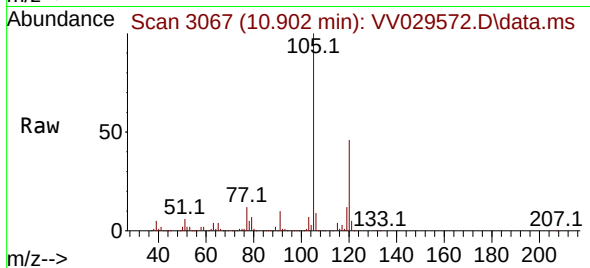
EXZB7

Tgt Ion:105 Resp: 706269

Ion Ratio Lower Upper

105 100

120 46.5 36.7 55.1



#67

1,2-Dichlorobenzene

Concen: 5.986 ug/L

RT: 11.632 min Scan# 3294

Delta R.T. 0.000 min

Lab File: VV029572.D

Acq: 10 Dec 2022 11:43

Tgt Ion:146 Resp: 47647

Ion Ratio Lower Upper

146 100

111 42.4 32.0 48.0

148 63.2 50.6 76.0

