

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101123\
 Data File : VW032388.D
 Acq On : 11 Oct 2023 13:09
 Operator : SY/MD
 Sample : 04826-01
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DCJU4

Quant Time: Oct 12 03:04:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 12 02:54:58 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.538	114	109144	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	120417	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	59397	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	40299	4.540	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.800%
7) Chloroethane-d5	1.532	69	32401	4.497	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.000%
11) 1,1-Dichloroethene-d2	2.060	65	14808	3.956	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.200%
20) 2-Butanone-d5	3.802	46	89367	39.799	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	79.600%
24) Chloroform-d	4.252	84	66369	4.238	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.800%
26) 1,2-Dichloroethane-d4	4.950	65	32819	4.425	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.400%
32) Benzene-d6	4.963	84	126931	3.582	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.600%
36) 1,2-Dichloropropane-d6	5.992	67	41922	3.571	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	71.400%
41) Toluene-d8	7.246	98	118054	3.644	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.800%
43) trans-1,3-Dichloroprop...	7.561	79	14916	3.586	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	71.800%
46) 2-Hexanone-d5	8.030	63	83607	42.716	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.440%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	33602	4.092	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.800%
66) 1,2-Dichlorobenzene-d4	11.564	152	48632	4.412	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	223566	19.118	ug/L	99
8) Chloroethane	1.281	64	72256	10.263	ug/L	# 45
12) 1,1-Dichloroethene	2.069	96	30964	3.868	ug/L	96
16) Methylene chloride	2.449	84	27719	2.656	ug/L	96
18) trans-1,2-Dichloroethene	2.696	96	41881	4.568	ug/L	98
22) cis-1,2-Dichloroethene	3.818	96	101145	10.245	ug/L	98
27) 1,2-Dichloroethane	5.043	62	98012	9.804	ug/L	99
29) 1,1,1-Trichloroethane	4.516	97	33799	2.064	ug/L	98
31) Carbon tetrachloride	4.738	117	76618	5.531	ug/L	100
33) Benzene	5.014	78	273649	6.455	ug/L	100
34) Trichloroethene	5.834	95	156141	13.491	ug/L	97
37) 1,2-Dichloropropane	6.095	63	155066	13.677	ug/L	100
42) Toluene	7.317	91	225827	4.997	ug/L	100
45) 1,1,2-Trichloroethane	7.773	97	29266	3.659	ug/L	97
47) Tetrachloroethene	7.908	164	133623	15.224	ug/L	98
49) Dibromochloromethane	7.908	129	120341	14.452	ug/L	# 8
51) Chlorobenzene	8.818	112	104668	3.597	ug/L	100
52) Ethylbenzene	8.950	91	851674	16.923	ug/L	100
53) m,p-Xylene	9.075	106	416863	22.334	ug/L	99

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

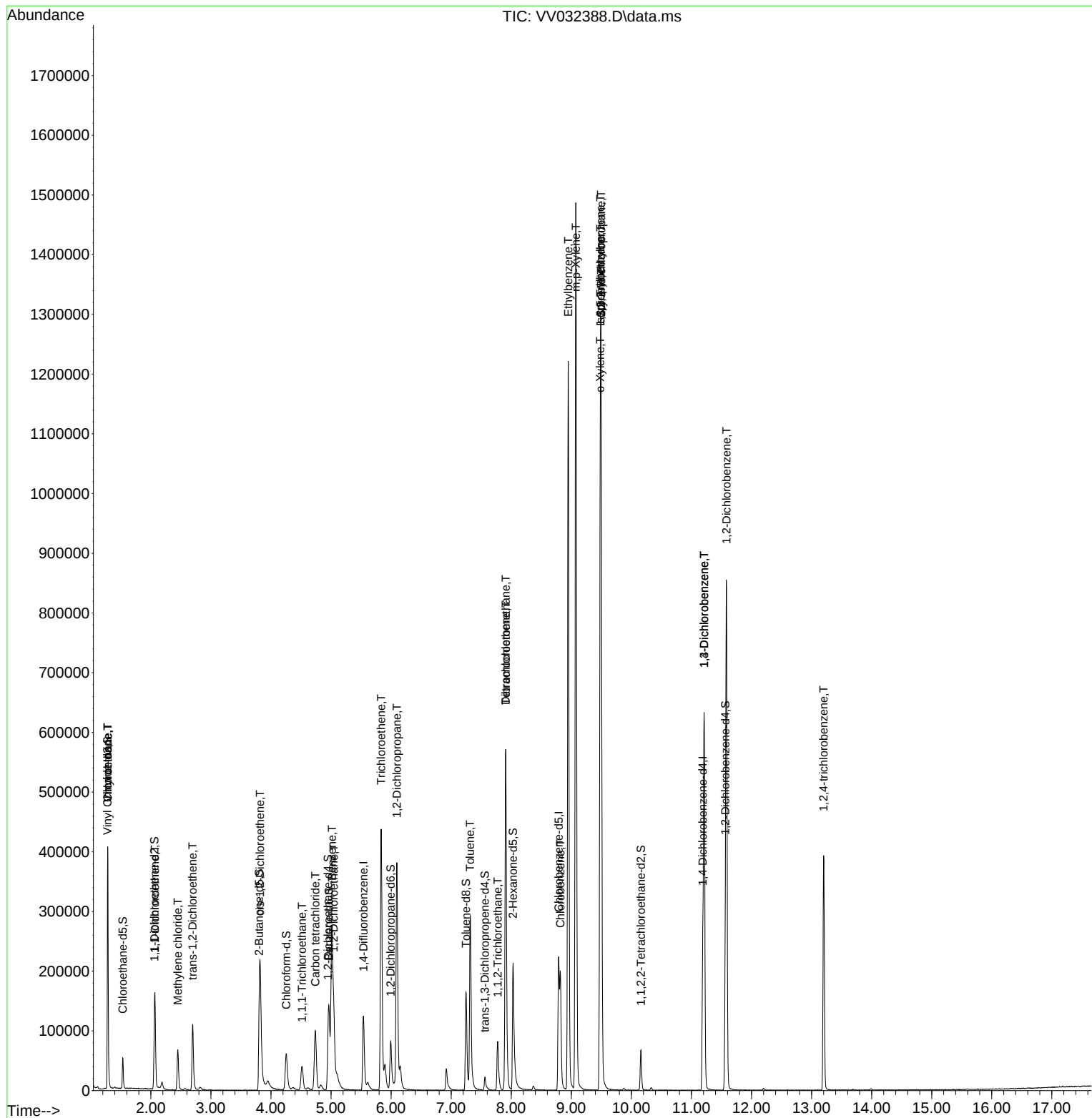
54) o-Xylene	9.480	106	228749	12.719	ug/L	99
55) Styrene	9.497	104	458382	15.091	ug/L	98
60) Isopropylbenzene	9.484	105	134542	2.915	ug/L #	1
61) 1,2,3-Trichloropropane	9.497	75	25489	4.032	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.484	105	134542	3.576	ug/L #	28
64) 1,3-Dichlorobenzene	11.210	146	239349	10.854	ug/L	98
65) 1,4-Dichlorobenzene	11.210	146	239349	10.818	ug/L	100
67) 1,2-Dichlorobenzene	11.583	146	319337	15.878	ug/L	99
70) 1,2,4-trichlorobenzene	13.201	180	115394	8.056	ug/L	99

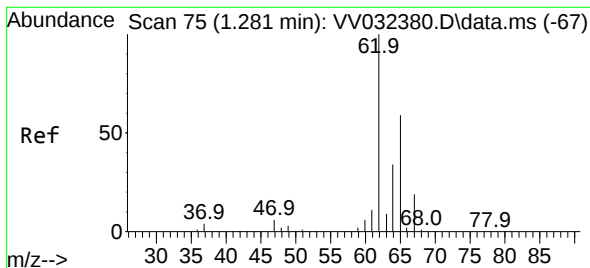
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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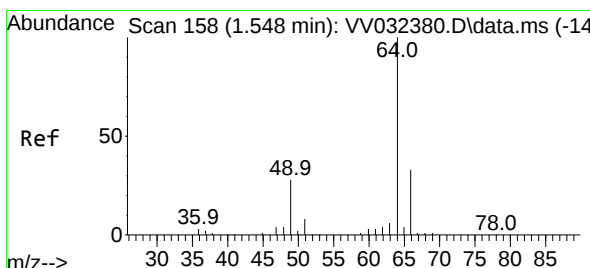
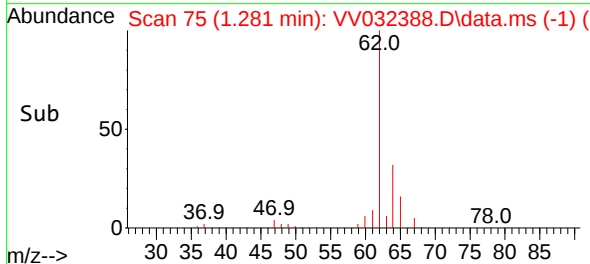
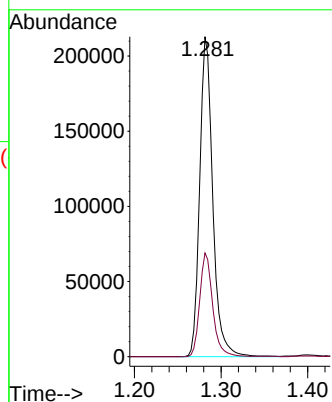
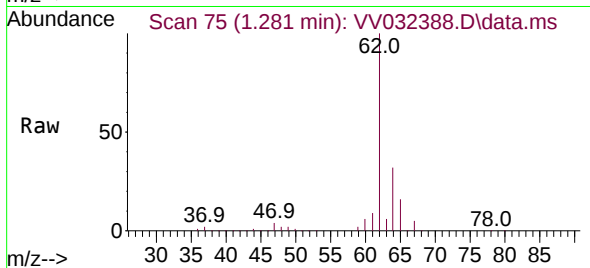




#5
 Vinyl chloride
 Concen: 19.118 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: VV032388.D
 Acq: 11 Oct 2023 13:09

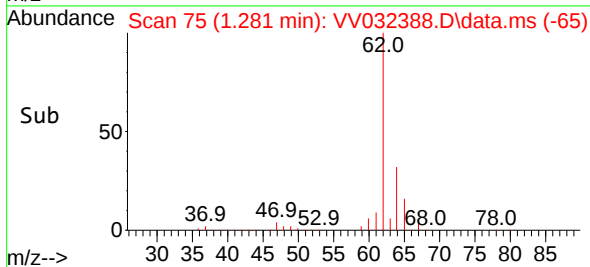
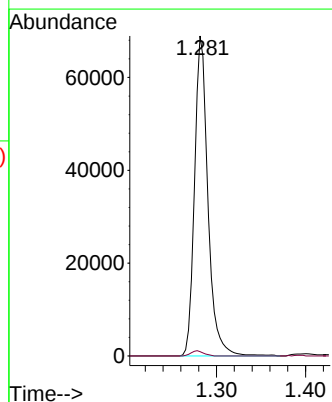
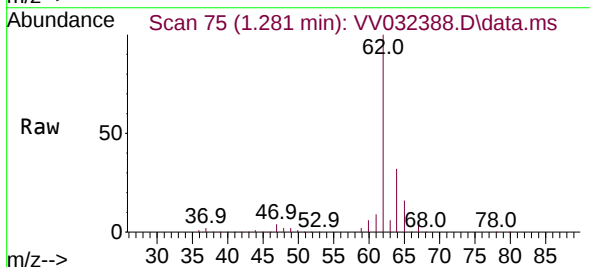
Instrument :
 MSVOA_V
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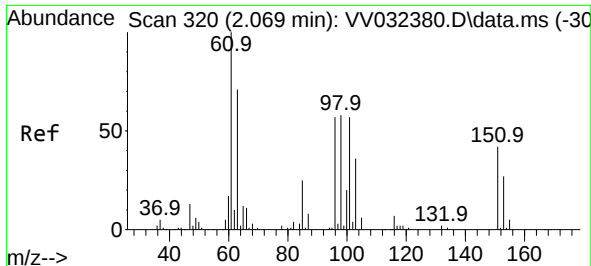
Tgt Ion: 62 Resp: 223566
 Ion Ratio Lower Upper
 62 100
 64 32.4 23.1 42.9



#8
 Chloroethane
 Concen: 10.263 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. -0.267 min
 Lab File: VV032388.D
 Acq: 11 Oct 2023 13:09

Tgt Ion: 64 Resp: 72256
 Ion Ratio Lower Upper
 64 100
 66 1.4 22.6 42.0#

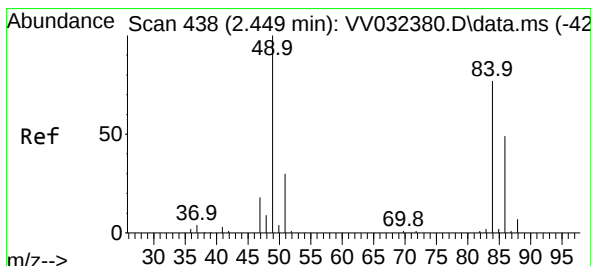
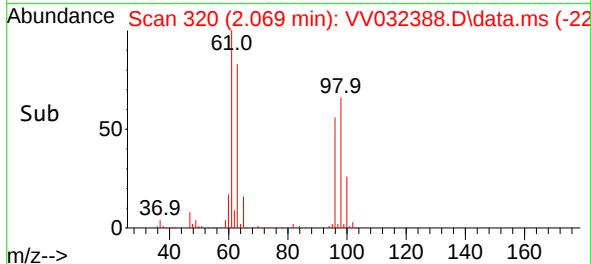
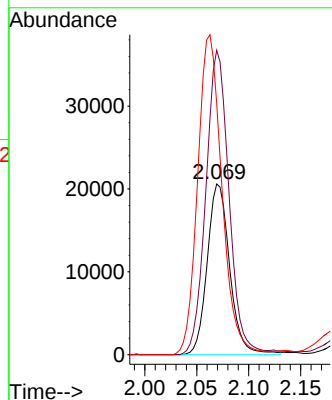
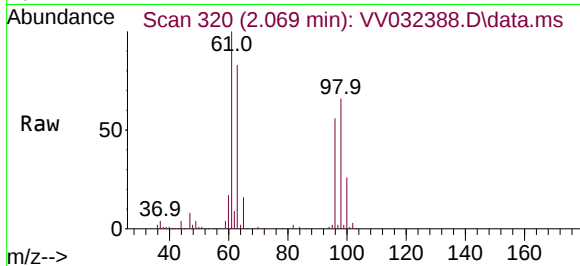




#12
1,1-Dichloroethene
Concen: 3.868 ug/L
RT: 2.069 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

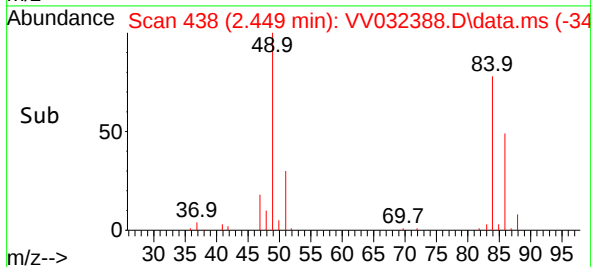
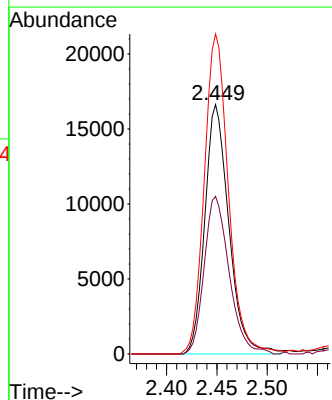
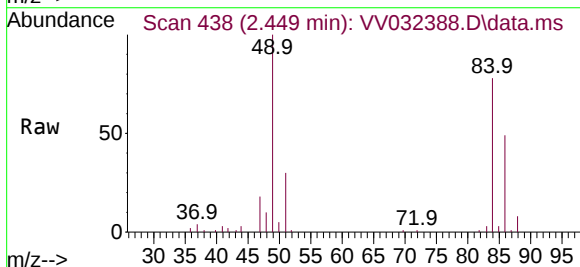
Instrument :
MSVOA_V
ClientSampleId :
DCJU4

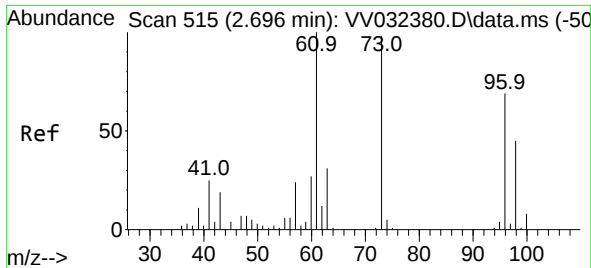
Tgt Ion: 96 Resp: 30964
Ion Ratio Lower Upper
96 100
61 178.3 127.3 236.3
63 147.2 98.3 182.7



#16
Methylene chloride
Concen: 2.656 ug/L
RT: 2.449 min Scan# 438
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion: 84 Resp: 27719
Ion Ratio Lower Upper
84 100
86 63.2 43.2 80.2
49 128.3 86.3 160.3

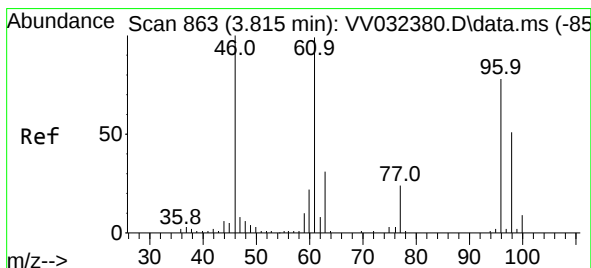
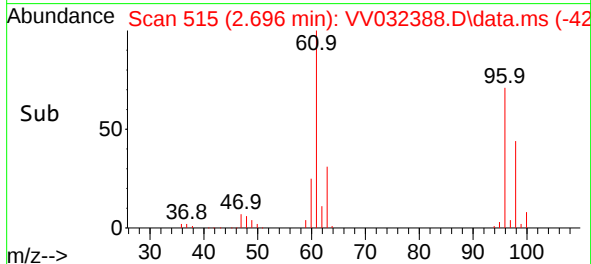
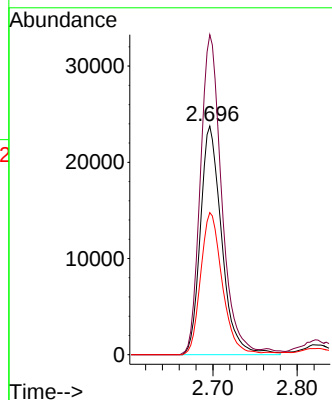
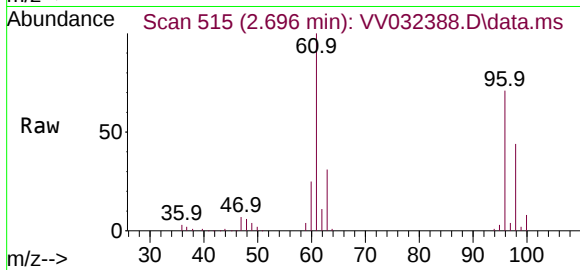




#18
trans-1,2-Dichloroethene
Concen: 4.568 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

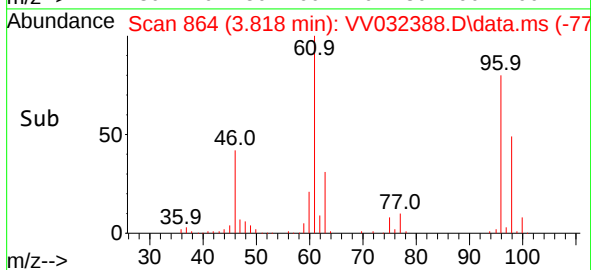
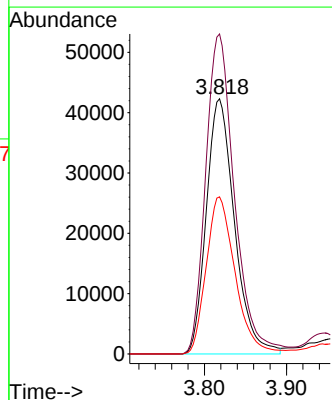
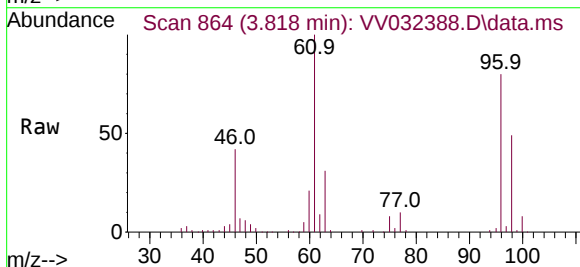
Instrument :
MSVOA_V
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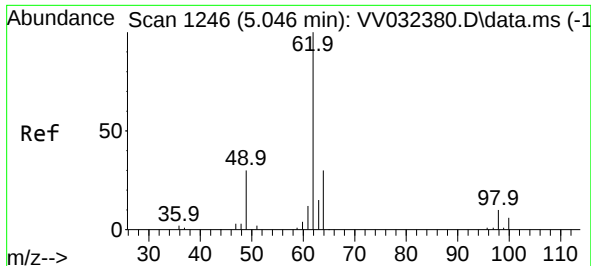
Tgt Ion: 96 Resp: 41881
Ion Ratio Lower Upper
96 100
61 140.0 96.9 180.1
98 62.2 45.3 84.1



#22
cis-1,2-Dichloroethene
Concen: 10.245 ug/L
RT: 3.818 min Scan# 864
Delta R.T. 0.003 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion: 96 Resp: 101145
Ion Ratio Lower Upper
96 100
61 125.4 85.8 159.4
98 61.6 44.0 81.6





#27

1,2-Dichloroethane

Concen: 9.804 ug/L

RT: 5.043 min Scan# 1

Delta R.T. -0.003 min

Lab File: VV032388.D

Acq: 11 Oct 2023 13:09

Instrument :

MSVOA_V

ClientSampleId :

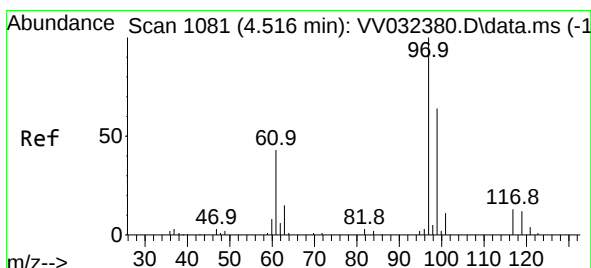
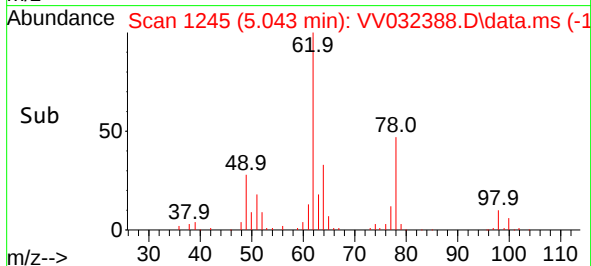
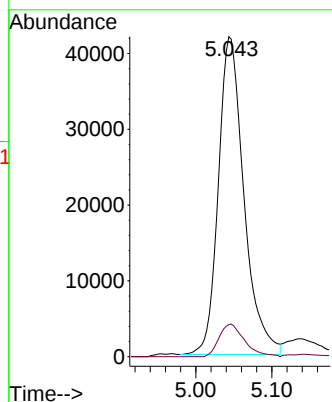
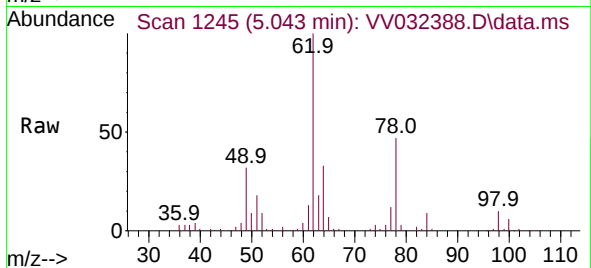
DCJU4

Tgt Ion: 62 Resp: 98012

Ion Ratio Lower Upper

62 100

98 10.0 7.8 11.8



#29

1,1,1-Trichloroethane

Concen: 2.064 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VV032388.D

Acq: 11 Oct 2023 13:09

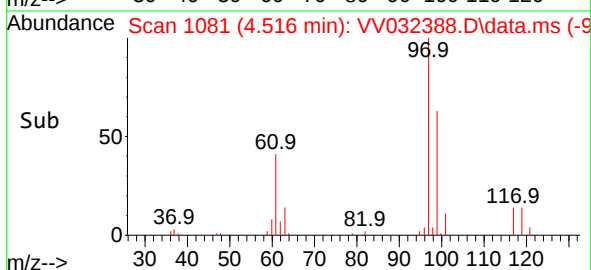
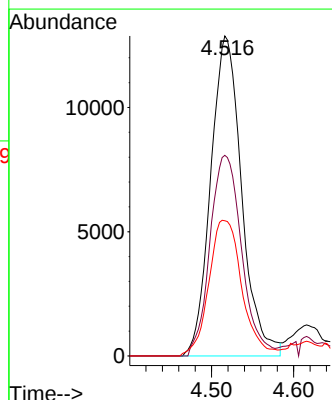
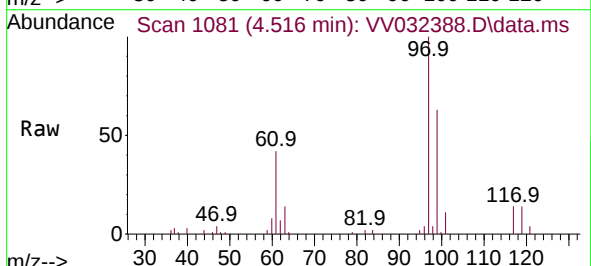
Tgt Ion: 97 Resp: 33799

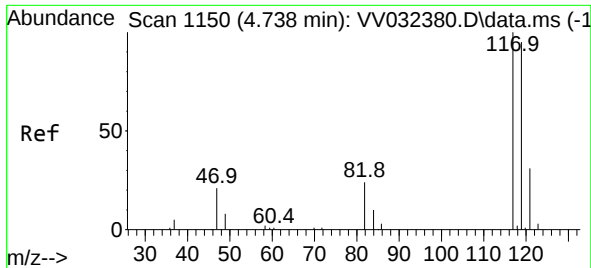
Ion Ratio Lower Upper

97 100

99 64.0 50.1 75.1

61 45.1 35.1 52.7

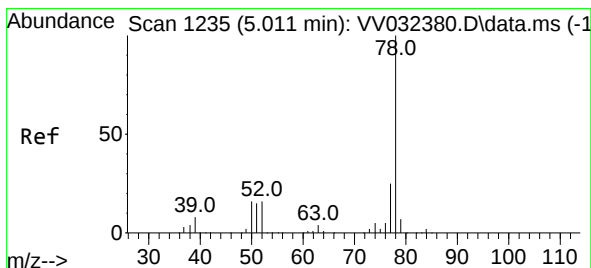
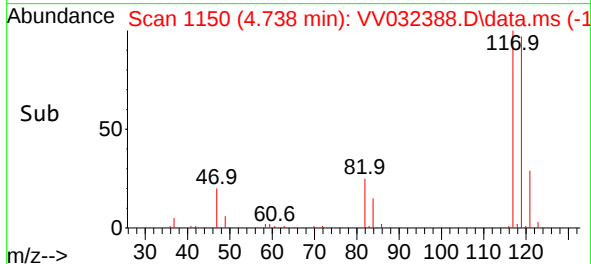
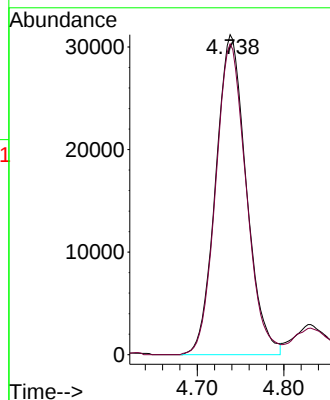
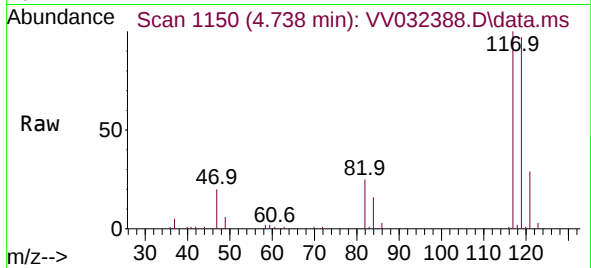




#31
Carbon tetrachloride
Concen: 5.531 ug/L
RT: 4.738 min Scan# 1150
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

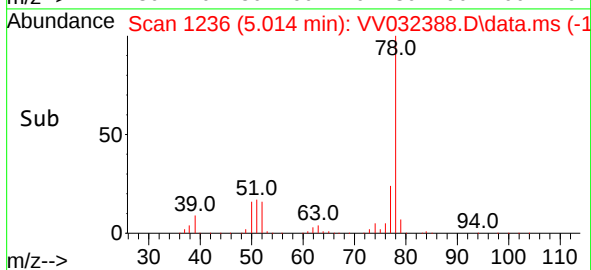
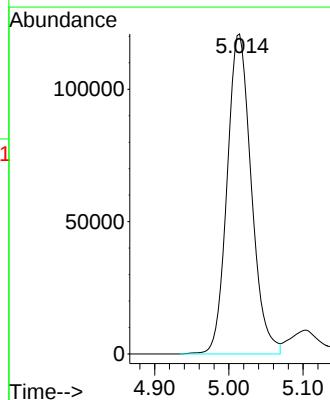
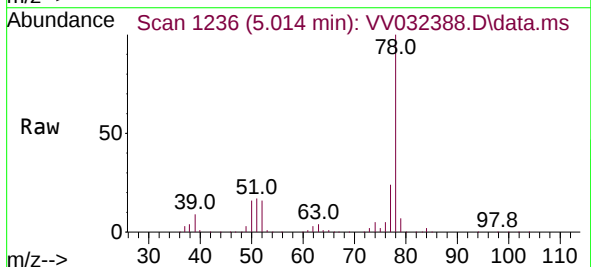
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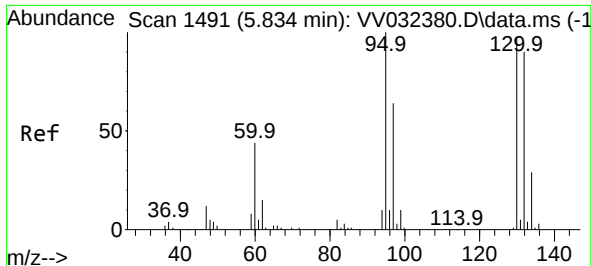
Tgt Ion:117 Resp: 76618
Ion Ratio Lower Upper
117 100
119 97.0 77.6 116.4



#33
Benzene
Concen: 6.455 ug/L
RT: 5.014 min Scan# 1236
Delta R.T. 0.003 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion: 78 Resp: 273649

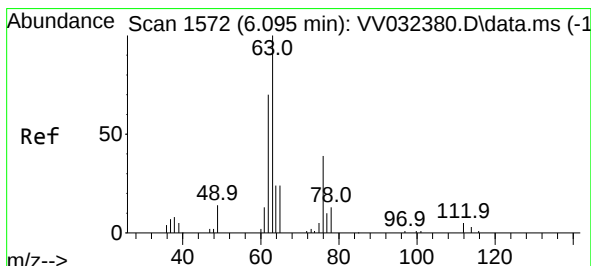
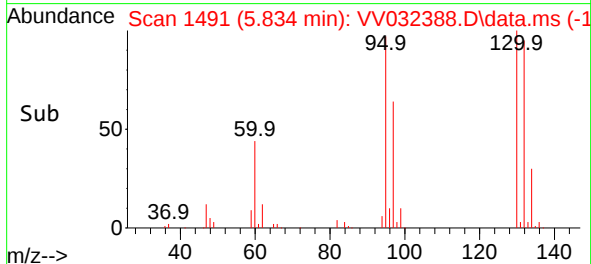
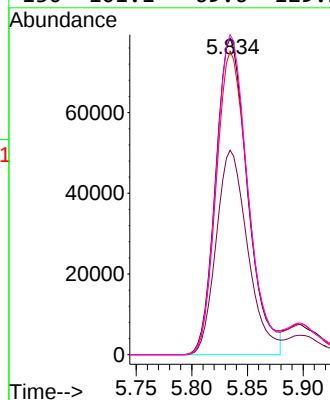
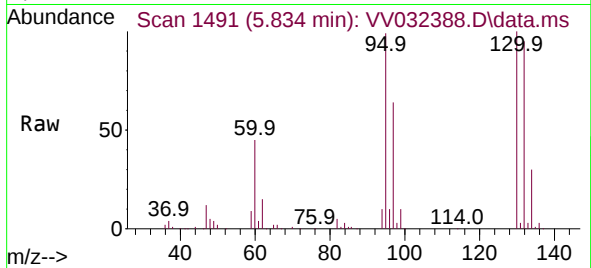




#34
Trichloroethene
Concen: 13.491 ug/L
RT: 5.834 min Scan# 1491
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

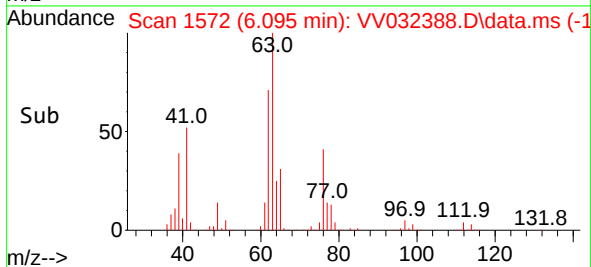
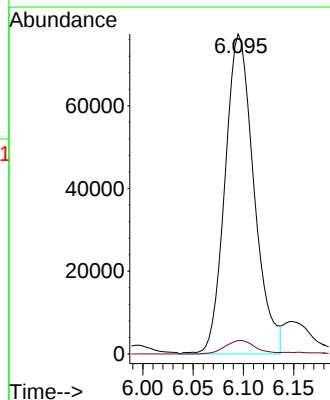
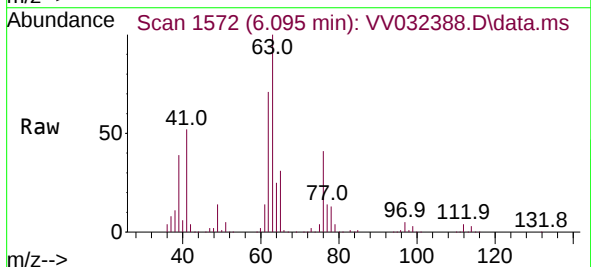
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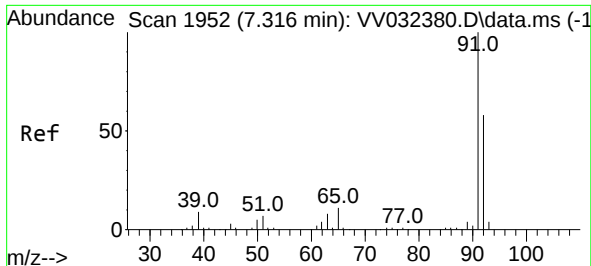
Tgt Ion: 95 Resp: 156141
Ion Ratio Lower Upper
95 100
97 64.6 45.7 84.9
132 95.9 70.3 130.5
130 101.1 69.6 129.2



#37
1,2-Dichloropropane
Concen: 13.677 ug/L
RT: 6.095 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion: 63 Resp: 155066
Ion Ratio Lower Upper
63 100
112 4.4 3.4 5.2

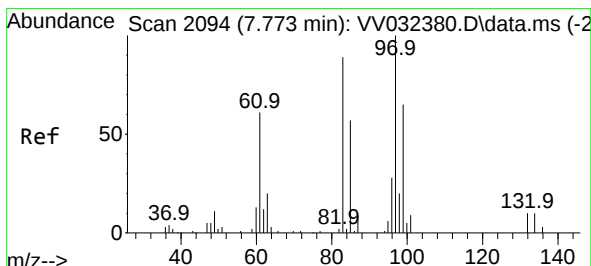
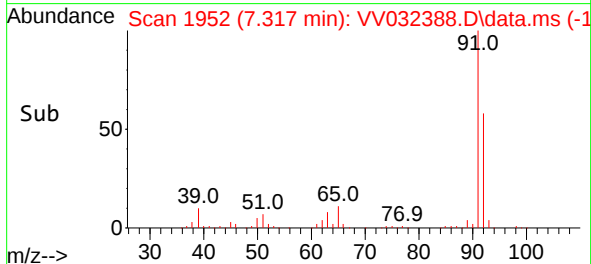
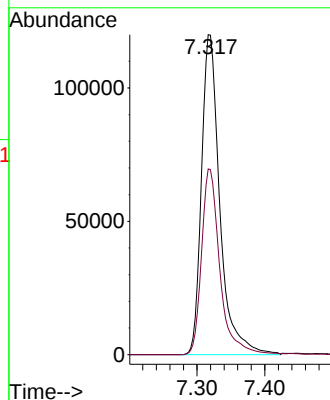
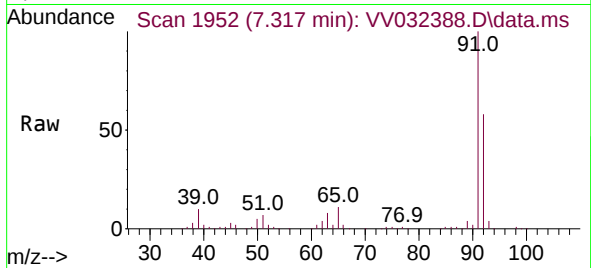




#42
Toluene
Concen: 4.997 ug/L
RT: 7.317 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

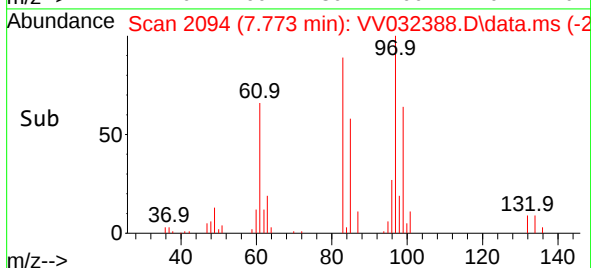
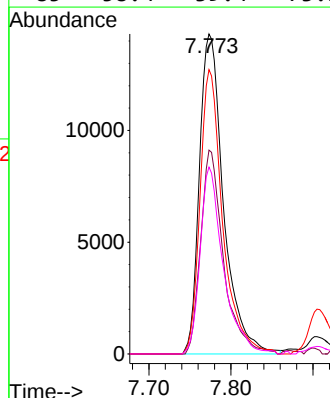
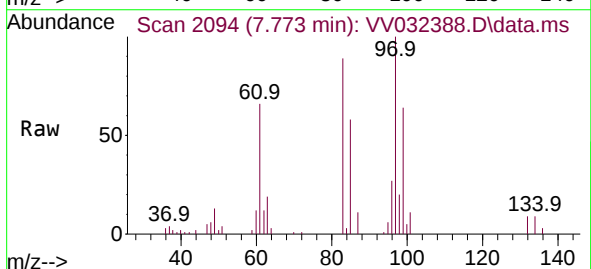
Instrument :
MSVOA_V
ClientSampleId :
DCJU4

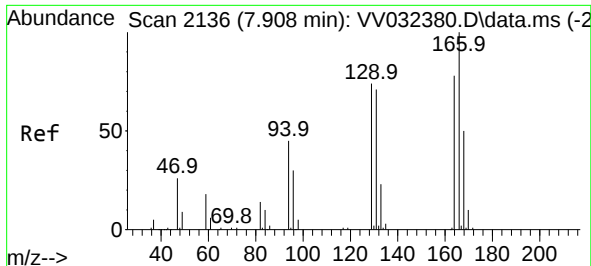
Tgt Ion: 91 Resp: 225827
Ion Ratio Lower Upper
91 100
92 58.0 40.8 75.8



#45
1,1,2-Trichloroethane
Concen: 3.659 ug/L
RT: 7.773 min Scan# 2094
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion: 97 Resp: 29266
Ion Ratio Lower Upper
97 100
99 63.7 42.8 79.4
83 88.8 60.9 113.1
85 58.4 39.4 73.2

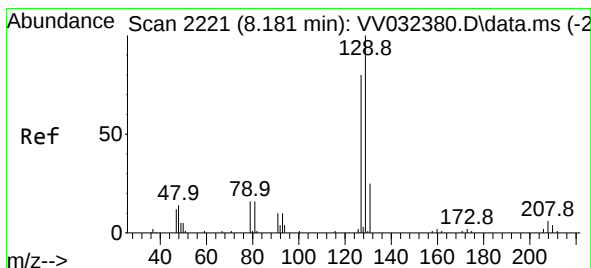
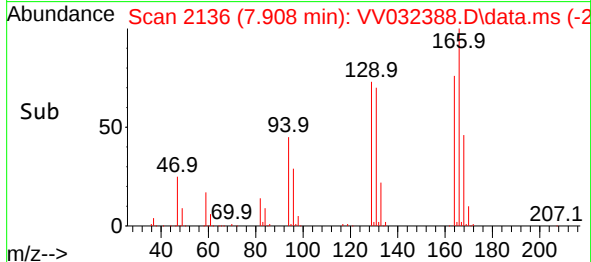
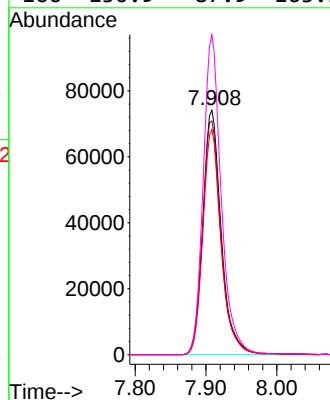
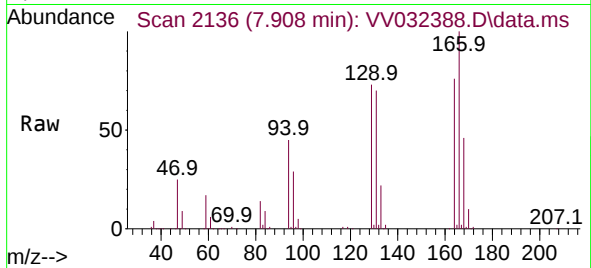




#47
Tetrachloroethene
Concen: 15.224 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

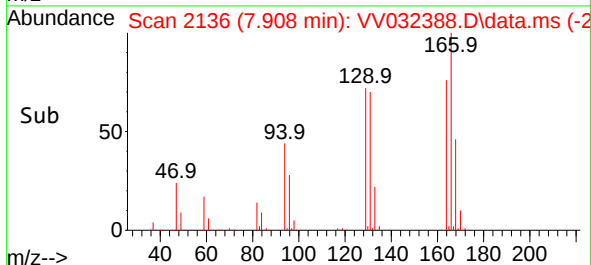
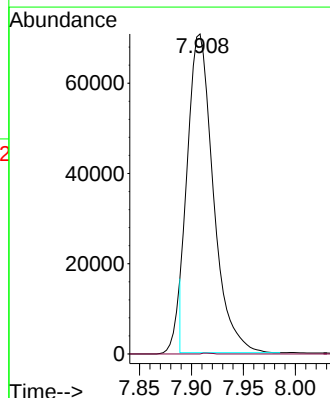
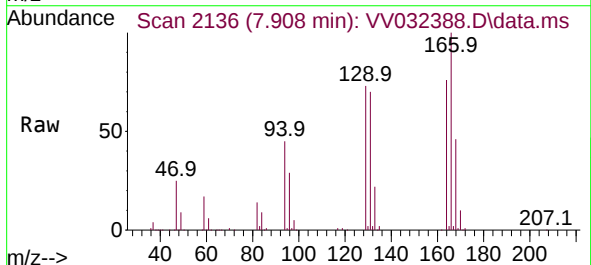
Instrument :
MSVOA_V
ClientSampleId :
DCJU4

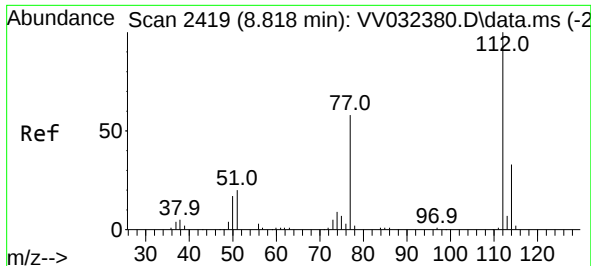
Tgt Ion:164 Resp: 133623
Ion Ratio Lower Upper
164 100
129 95.7 66.4 123.4
131 92.1 63.7 118.3
166 130.9 87.9 163.3



#49
Dibromochloromethane
Concen: 14.452 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. -0.273 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion:129 Resp: 120341
Ion Ratio Lower Upper
129 100
127 0.0 57.2 106.2#

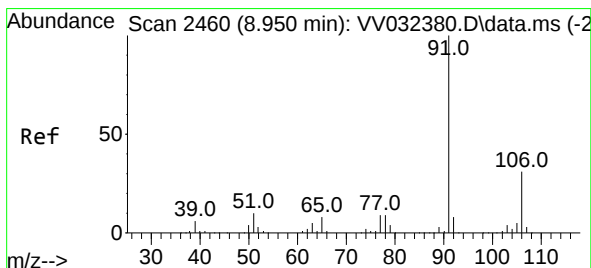
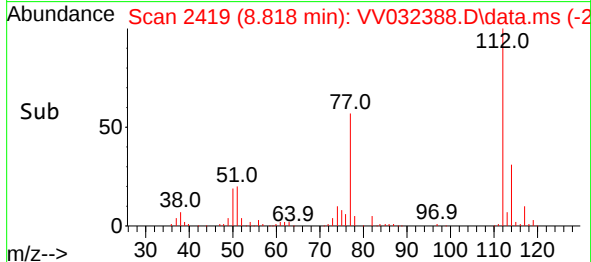
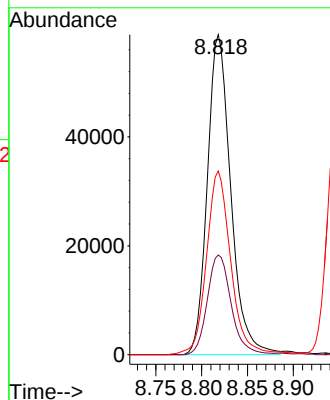
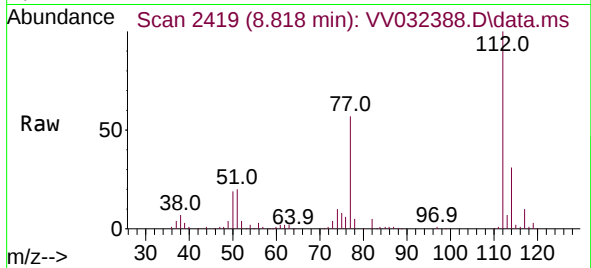




#51
Chlorobenzene
Concen: 3.597 ug/L
RT: 8.818 min Scan# 2419
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

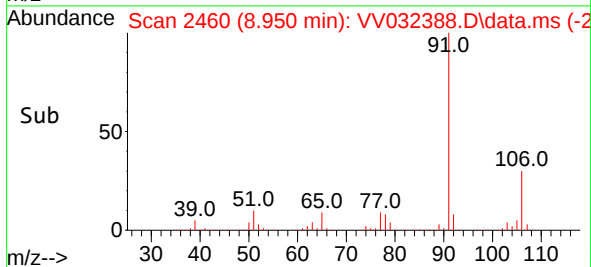
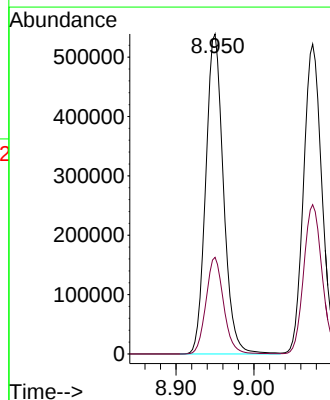
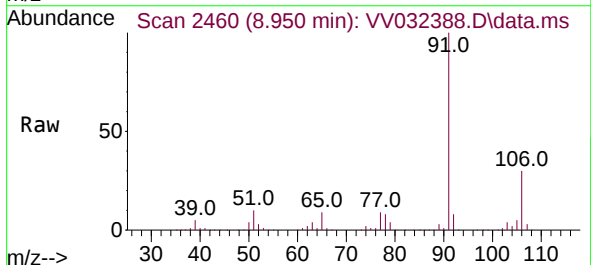
Instrument :
MSVOA_V
ClientSampleId :
DCJU4

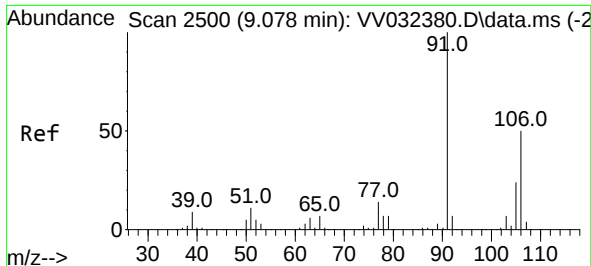
Tgt Ion:112 Resp: 104668
Ion Ratio Lower Upper
112 100
114 31.2 22.1 41.1
77 57.4 46.1 69.1



#52
Ethylbenzene
Concen: 16.923 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion: 91 Resp: 851674
Ion Ratio Lower Upper
91 100
106 30.2 21.3 39.5

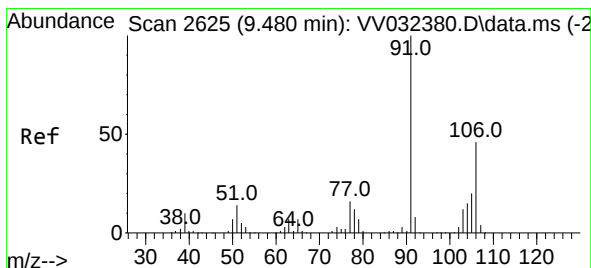
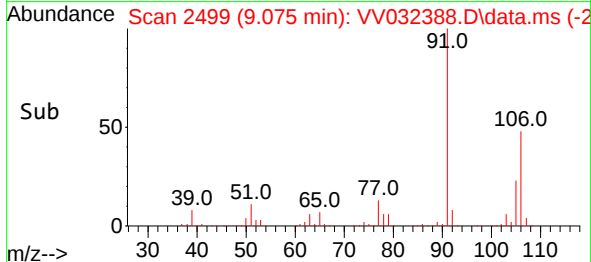
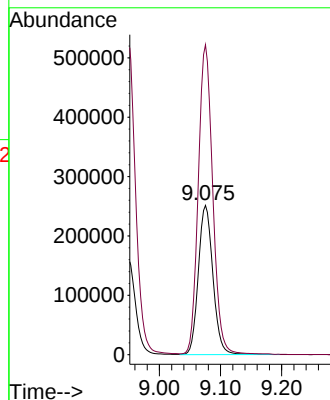
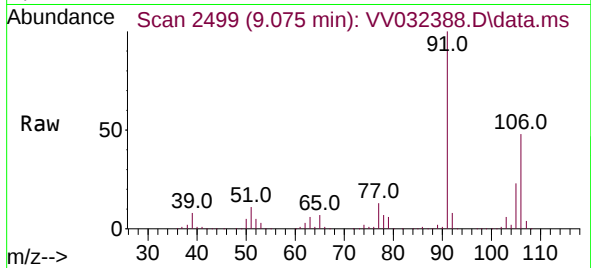




#53
m,p-Xylene
Concen: 22.334 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. -0.003 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

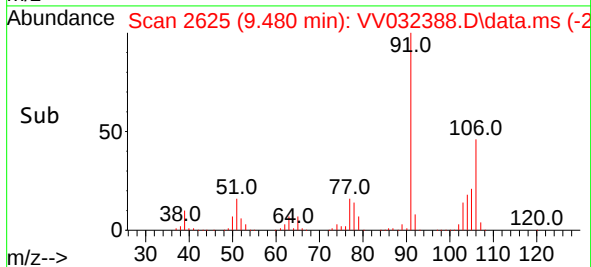
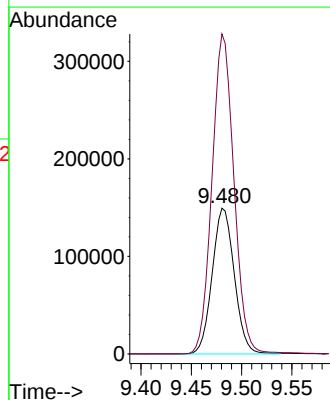
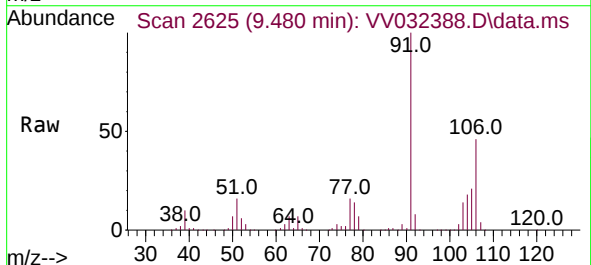
Instrument :
MSVOA_V
ClientSampleId :
DCJU4

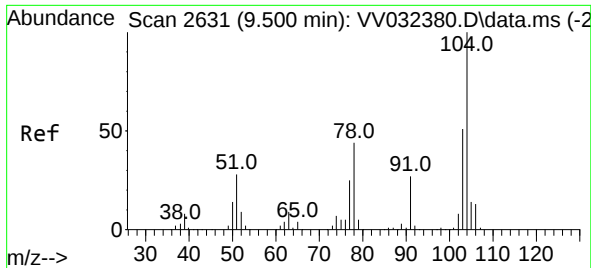
Tgt Ion:106 Resp: 416863
Ion Ratio Lower Upper
106 100
91 207.5 144.5 268.3



#54
o-Xylene
Concen: 12.719 ug/L
RT: 9.480 min Scan# 2625
Delta R.T. 0.000 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion:106 Resp: 228749
Ion Ratio Lower Upper
106 100
91 219.5 154.8 287.4

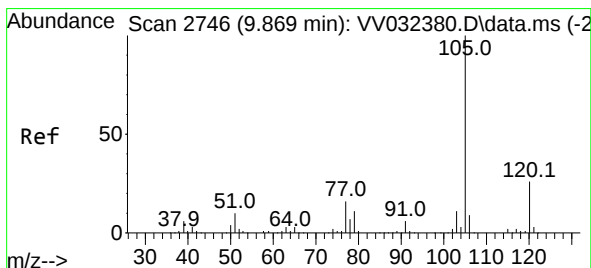
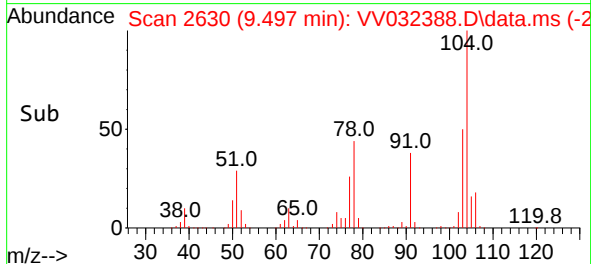
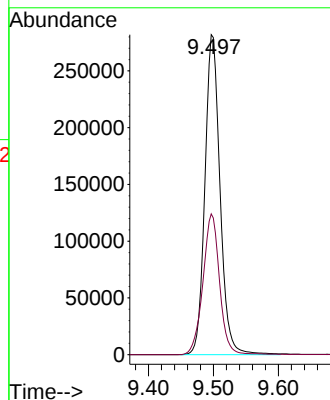
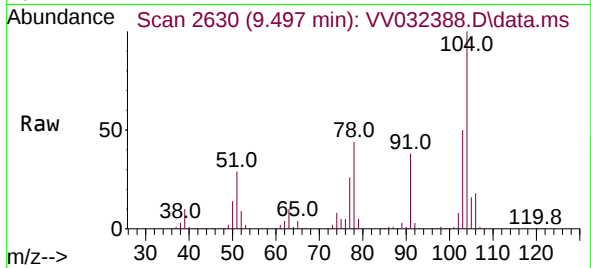




#55
Styrene
Concen: 15.091 ug/L
RT: 9.497 min Scan# 2631
Delta R.T. -0.003 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

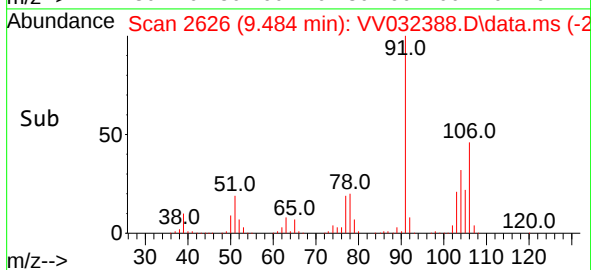
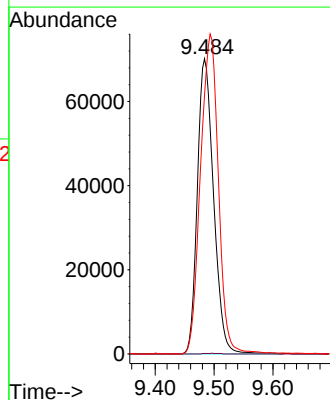
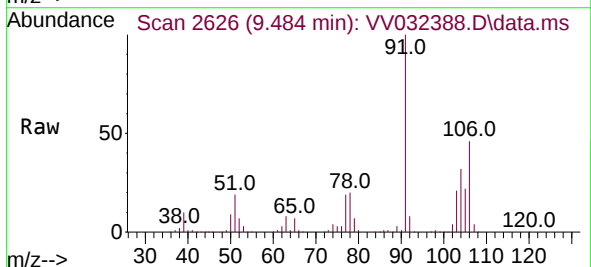
Instrument :
MSVOA_V
ClientSampleId :
DCJU4

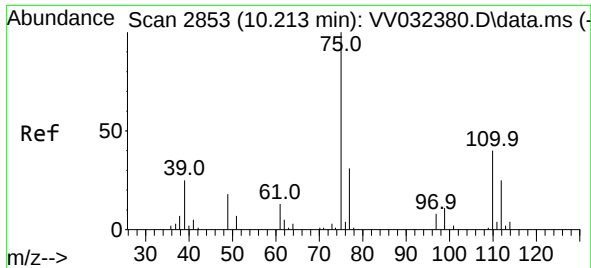
Tgt Ion:104 Resp: 458382
Ion Ratio Lower Upper
104 100
78 44.0 29.9 55.5



#60
Isopropylbenzene
Concen: 2.915 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. -0.386 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion:105 Resp: 134542
Ion Ratio Lower Upper
105 100
120 0.2 21.0 31.6#
77 119.1 12.6 19.0#

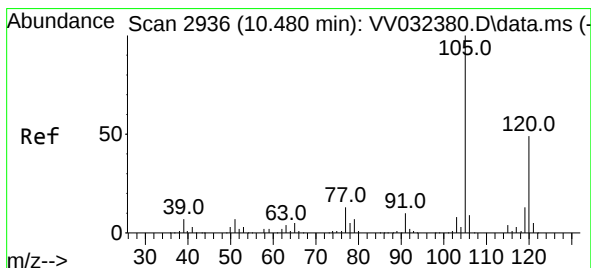
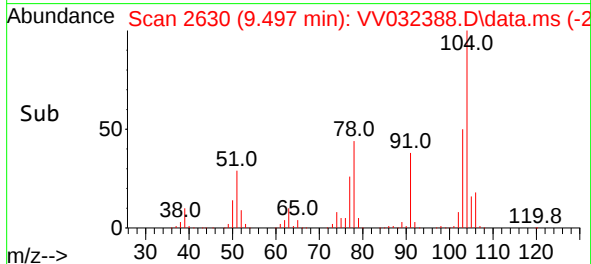
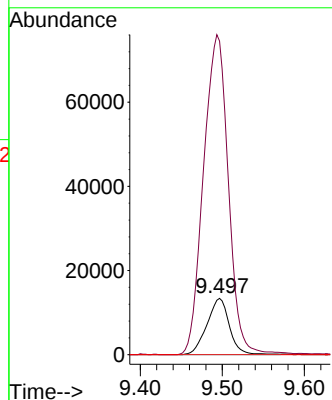
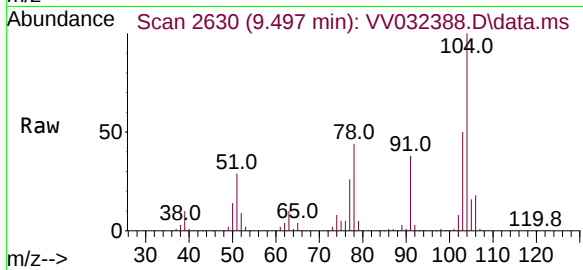




#61
 1,2,3-Trichloropropane
 Concen: 4.032 ug/L
 RT: 9.497 min Scan# 21
 Delta R.T. -0.717 min
 Lab File: VV032388.D
 Acq: 11 Oct 2023 13:09

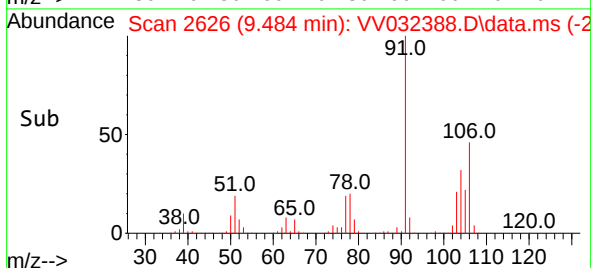
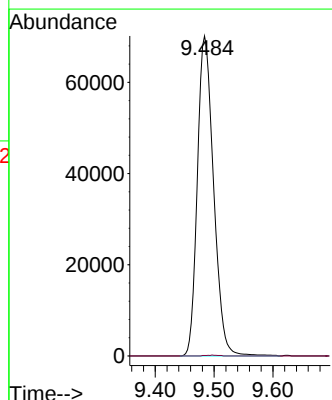
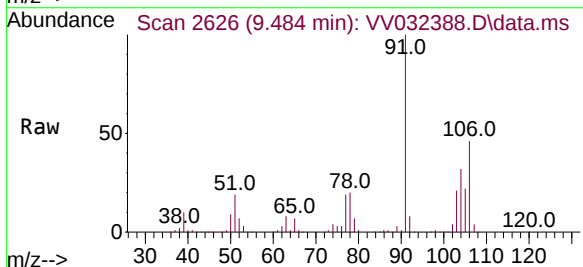
Instrument :
 MSVOA_V
 ClientSampleId :
 DCJU4

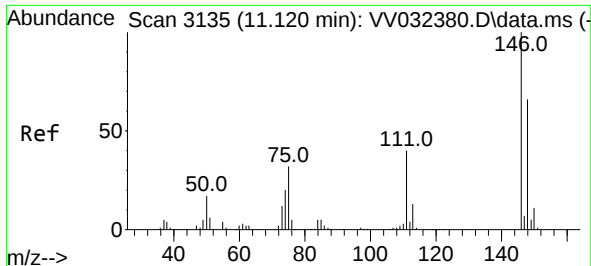
Tgt Ion: 75 Resp: 25489
 Ion Ratio Lower Upper
 75 100
 77 628.7 26.2 39.2#
 110 0.0 30.6 46.0#



#62
 1,3,5-Trimethylbenzene
 Concen: 3.576 ug/L
 RT: 9.484 min Scan# 2626
 Delta R.T. -0.997 min
 Lab File: VV032388.D
 Acq: 11 Oct 2023 13:09

Tgt Ion:105 Resp: 134542
 Ion Ratio Lower Upper
 105 100
 120 0.2 39.9 59.9#

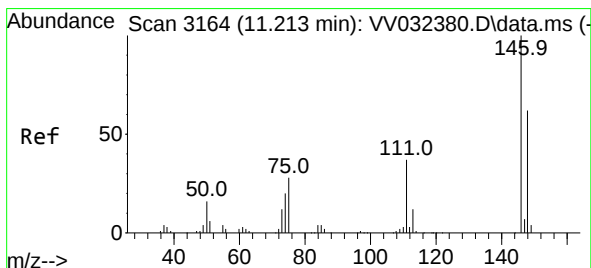
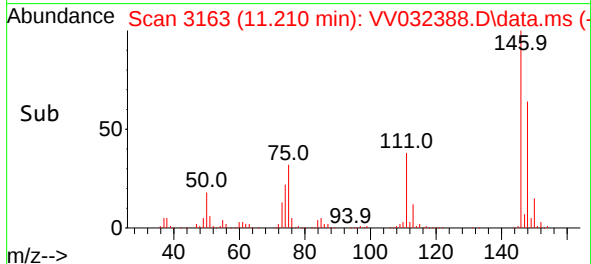
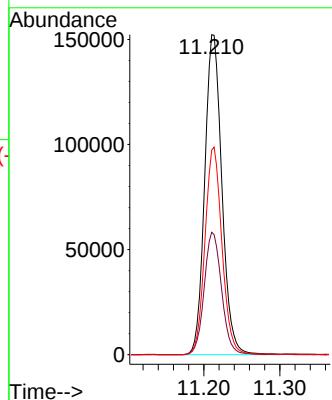
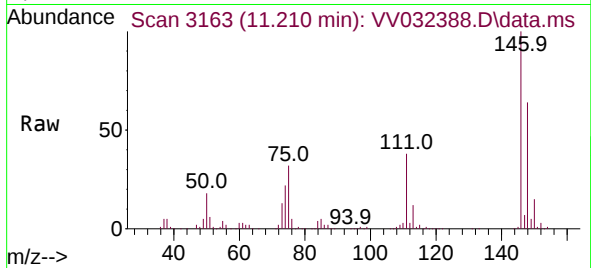




#64
1,3-Dichlorobenzene
Concen: 10.854 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. 0.090 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

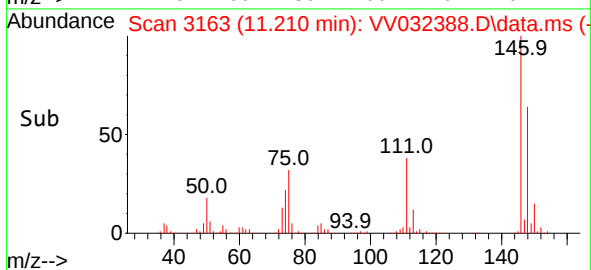
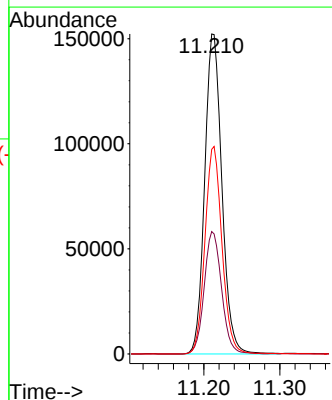
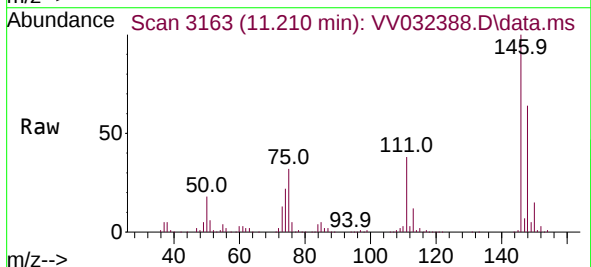
Instrument :
MSVOA_V
ClientSampleId :
DCJU4

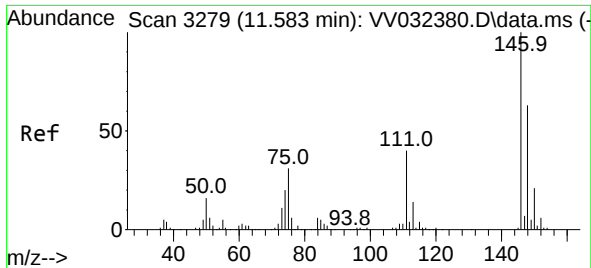
Tgt Ion:146 Resp: 239349
Ion Ratio Lower Upper
146 100
111 38.3 27.8 51.6
148 64.0 43.7 81.1



#65
1,4-Dichlorobenzene
Concen: 10.818 ug/L
RT: 11.210 min Scan# 3163
Delta R.T. -0.003 min
Lab File: VV032388.D
Acq: 11 Oct 2023 13:09

Tgt Ion:146 Resp: 239349
Ion Ratio Lower Upper
146 100
111 38.3 26.9 49.9
148 64.0 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 15.878 ug/L

RT: 11.583 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV032388.D

Acq: 11 Oct 2023 13:09

Instrument :

MSVOA_V

ClientSampleId :

DCJU4

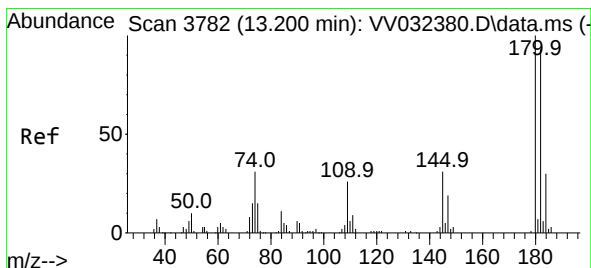
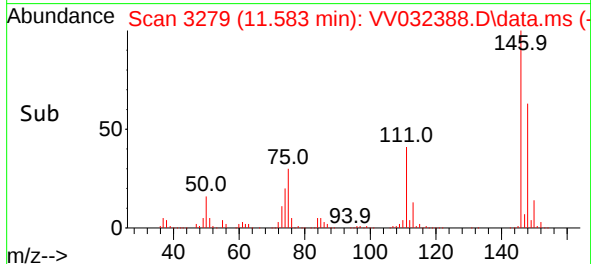
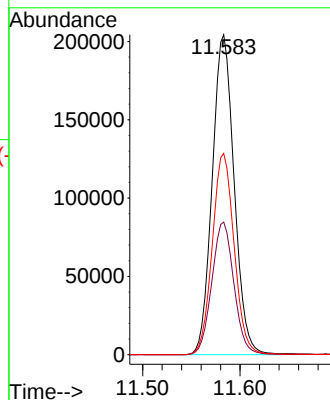
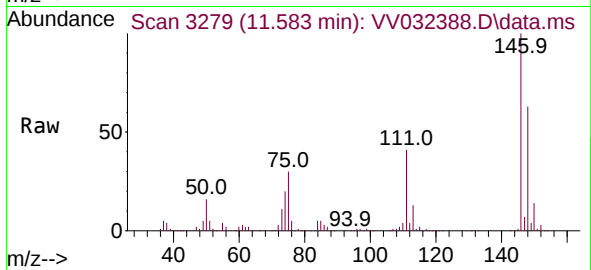
Tgt Ion:146 Resp: 319337

Ion Ratio Lower Upper

146 100

111 41.4 32.8 49.2

148 62.9 51.0 76.4



#70

1,2,4-trichlorobenzene

Concen: 8.056 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.000 min

Lab File: VV032388.D

Acq: 11 Oct 2023 13:09

Tgt Ion:180 Resp: 115394

Ion Ratio Lower Upper

180 100

182 94.5 76.5 114.7

145 29.6 24.3 36.5

