

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101722\
 Data File : VW028588.D
 Acq On : 17 Oct 2022 14:57
 Operator : SY/MD
 Sample : N5109-02DL 5X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ05DL

Quant Time: Oct 18 01:23:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Oct 18 01:19:01 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	197910	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	190100	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	95832	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	78910	4.633	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.600%
7) Chloroethane-d5	1.565	69	73056	5.217	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.400%
11) 1,1-Dichloroethene-d2	2.105	63	113708	3.686	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.800%
20) 2-Butanone-d5	3.899	46	126118	34.443	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	68.880%
24) Chloroform-d	4.343	84	134171	5.144	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.800%
26) 1,2-Dichloroethane-d4	5.031	65	71879	5.288	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.800%
32) Benzene-d6	5.047	84	272259	4.436	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.800%
36) 1,2-Dichloropropane-d6	6.066	67	91783	4.634	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.600%
41) Toluene-d8	7.310	98	228355	4.696	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.000%
43) trans-1,3-Dichloroprop...	7.622	79	28069	4.194	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.800%
46) 2-Hexanone-d5	8.088	63	158449	54.860	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.720%
56) 1,1,2,2-Tetrachloroeth...	10.211	84	63610	5.392	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.800%
66) 1,2-Dichlorobenzene-d4	11.616	152	82822	5.237	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.800%
Target Compounds						Qvalue
3) Chloromethane	1.237	50	760	0.041	ug/L #	26
5) Vinyl chloride	1.307	62	79689	4.373	ug/L	98
8) Chloroethane	1.584	64	858	0.073	ug/L #	42
12) 1,1-Dichloroethene	2.114	96	3999	0.325	ug/L #	1
15) Methyl Acetate	2.526	43	779252	128.078	ug/L #	61
16) Methylene chloride	2.507	84	15337	0.884	ug/L #	64
19) 1,1-Dichloroethane	3.185	63	82448	2.855	ug/L	98
21) 2-Butanone	3.757	43	174109	47.276	ug/L #	54
22) cis-1,2-Dichloroethene	3.909	96	58836	4.055	ug/L #	96
25) Chloroform	4.365	83	3369	0.123	ug/L	81
29) 1,1,1-Trichloroethane	4.603	97	125934	4.793	ug/L	97
30) Cyclohexane	4.671	56	144740	4.771	ug/L	96
31) Carbon tetrachloride	4.606	117	15999	0.774	ug/L	99
35) Methylcyclohexane	6.066	83	21045	0.788	ug/L #	18
42) Toluene	7.381	91	730226	11.586	ug/L	99
44) trans-1,3-Dichloropropene	7.619	75	1592	0.091	ug/L	95
51) Chlorobenzene	8.876	112	165188	4.228	ug/L	99
52) Ethylbenzene	9.008	91	152163	2.173	ug/L	97
53) m,p-Xylene	9.133	106	100239	3.828	ug/L	97

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

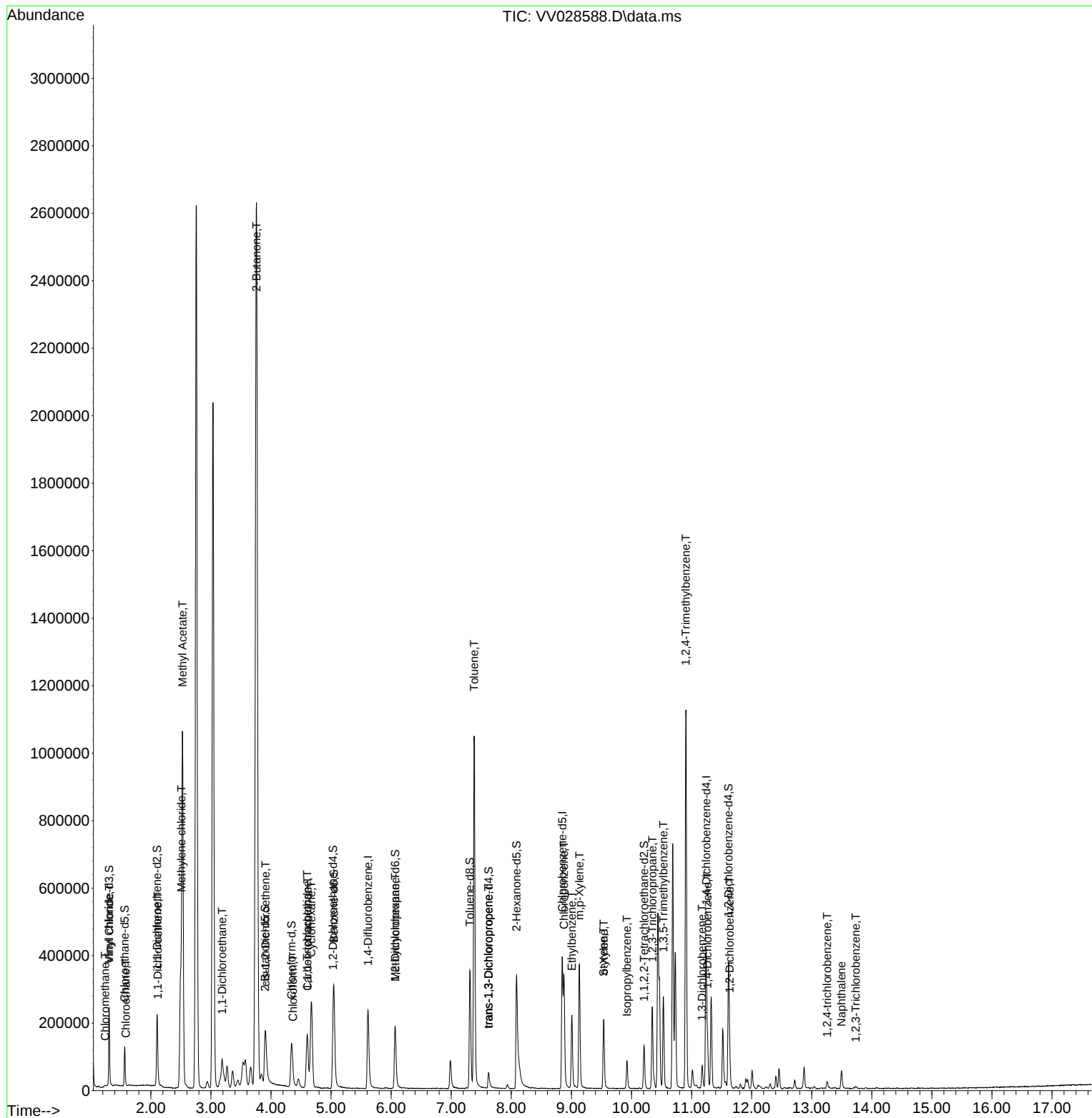
54) o-Xylene	9.539	106	52716	2.077	ug/L	97
55) Styrene	9.535	104	2693	0.063	ug/L #	1
60) Isopropylbenzene	9.924	105	48984	0.700	ug/L	99
61) 1,2,3-Trichloropropane	10.346	75	1628	0.190	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.532	105	137123	6.516	ug/L	99
63) 1,2,4-Trimethylbenzene	10.905	105	573738	9.971	ug/L	99
64) 1,3-Dichlorobenzene	11.175	146	22755	0.771	ug/L	96
65) 1,4-Dichlorobenzene	11.265	146	47862	1.655	ug/L	97
67) 1,2-Dichlorobenzene	11.635	146	15007	0.567	ug/L	98
70) 1,2,4-trichlorobenzene	13.255	180	4592	0.279	ug/L	89
71) Naphthalene	13.497	128	39767	1.614	ug/L	98
72) 1,2,3-Trichlorobenzene	13.734	180	1234	0.091	ug/L #	91

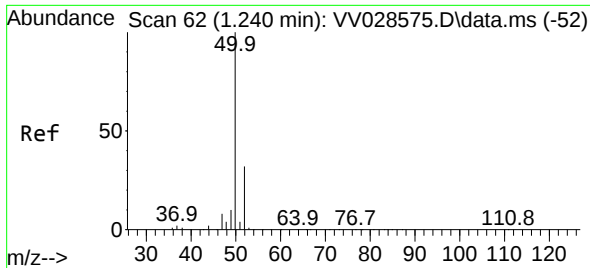
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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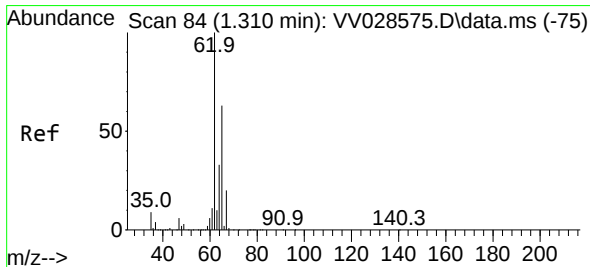
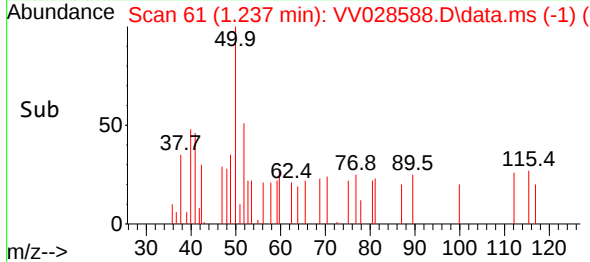
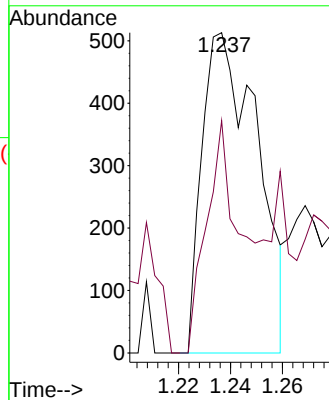
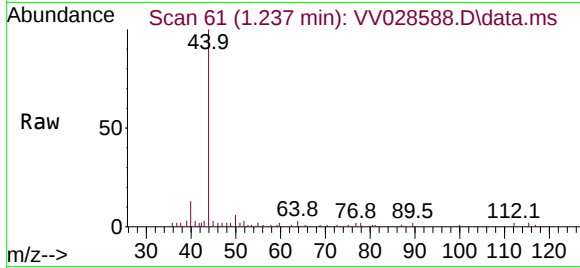




#3
Chloromethane
Concen: 0.041 ug/L
RT: 1.237 min Scan# 61
Delta R.T. -0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

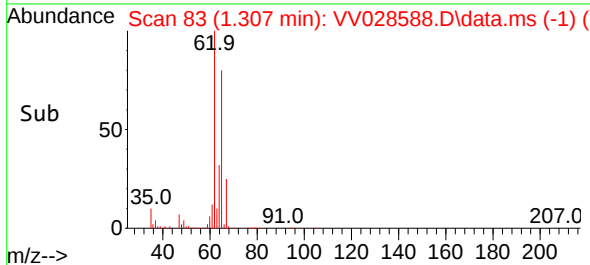
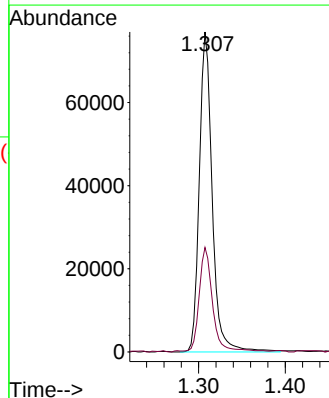
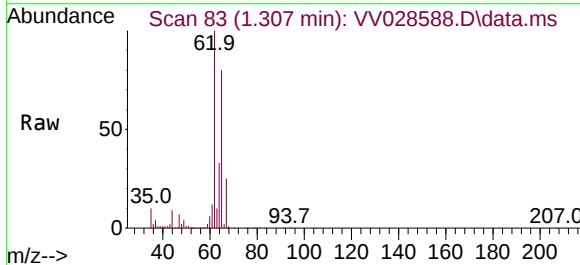
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MSVOA_V
ClientSampleId :
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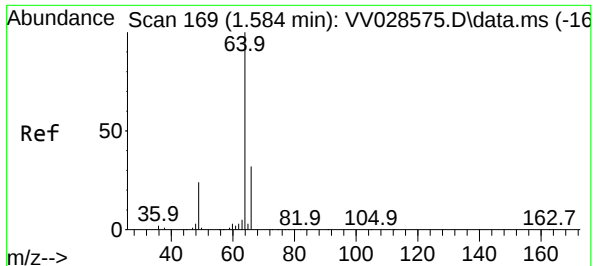
Tgt Ion: 50 Resp: 760
Ion Ratio Lower Upper
50 100
52 72.5 22.0 41.0#



#5
Vinyl chloride
Concen: 4.373 ug/L
RT: 1.307 min Scan# 83
Delta R.T. -0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion: 62 Resp: 79689
Ion Ratio Lower Upper
62 100
64 32.6 23.7 44.1

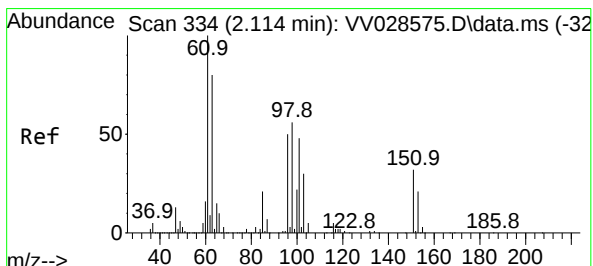
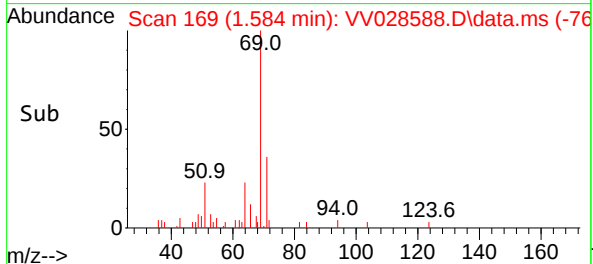
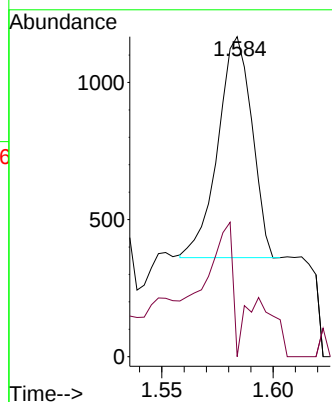
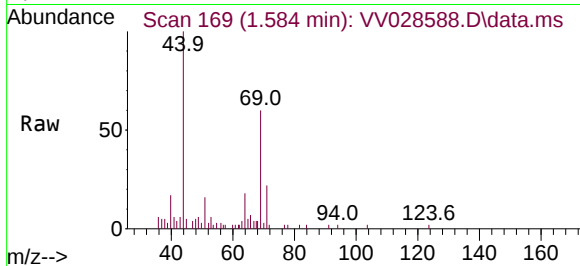




#8
Chloroethane
Concen: 0.073 ug/L
RT: 1.584 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

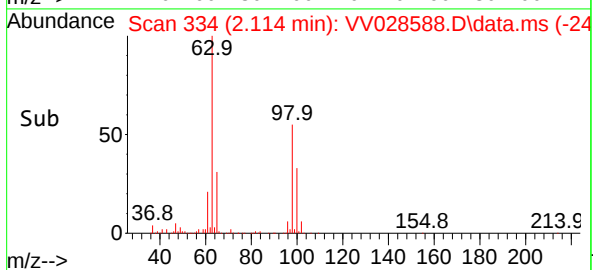
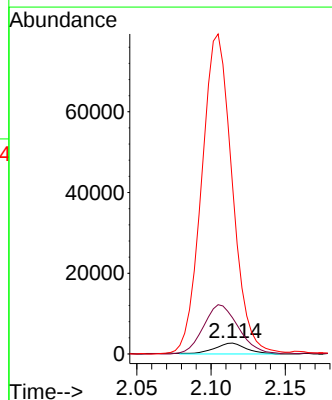
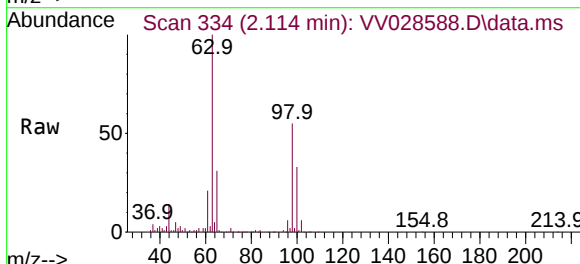
Instrument :
MSVOA_V
ClientSampleId :
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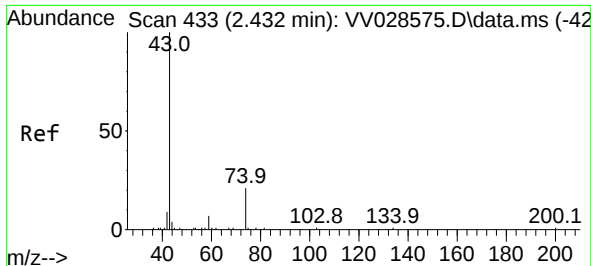
Tgt Ion: 64 Resp: 858
Ion Ratio Lower Upper
64 100
66 0.0 23.0 42.8#



#12
1,1-Dichloroethene
Concen: 0.325 ug/L
RT: 2.114 min Scan# 334
Delta R.T. 0.000 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion: 96 Resp: 3999
Ion Ratio Lower Upper
96 100
61 332.5 142.9 265.5#
63 1553.4 102.3 190.1#

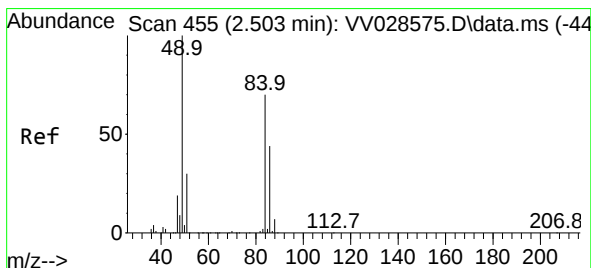
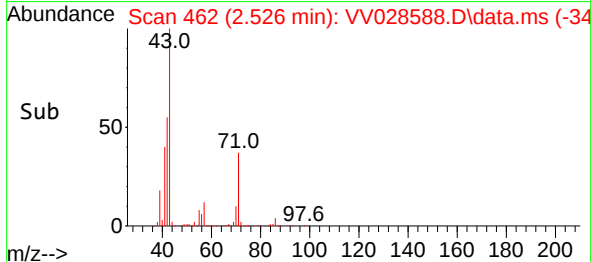
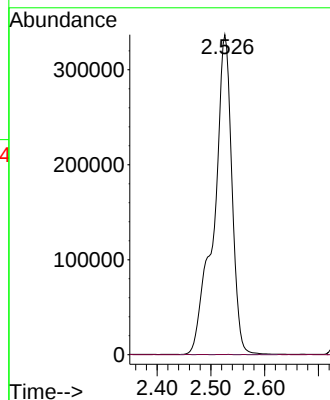
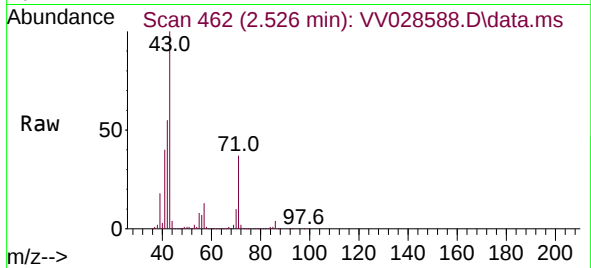




#15
Methyl Acetate
Concen: 128.078 ug/L
RT: 2.526 min Scan# 41
Delta R.T. 0.093 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

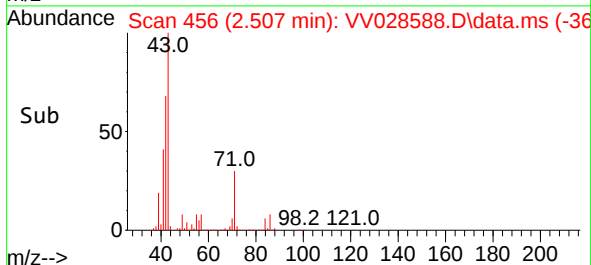
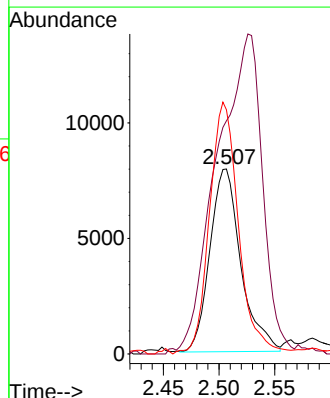
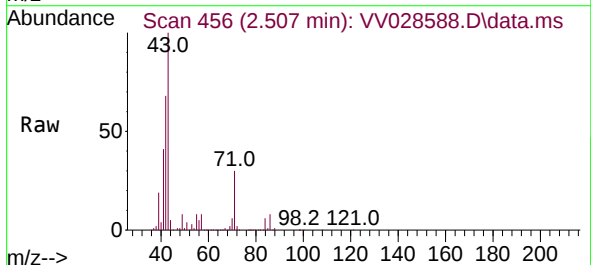
Instrument :
MSVOA_V
ClientSampleId :
BFZ05DL

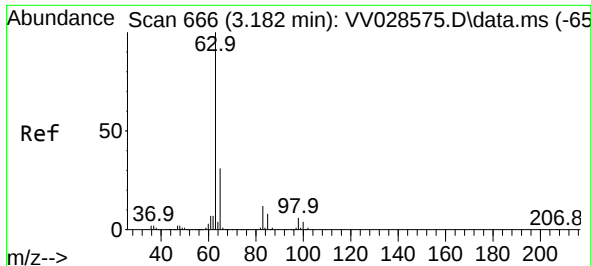
Tgt Ion: 43 Resp: 779252
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.6#



#16
Methylene chloride
Concen: 0.884 ug/L
RT: 2.507 min Scan# 456
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion: 84 Resp: 15337
Ion Ratio Lower Upper
84 100
86 126.1 42.8 79.6#
49 132.0 106.4 197.6





#19

1,1-Dichloroethane

Concen: 2.855 ug/L

RT: 3.185 min Scan# 6

Delta R.T. 0.003 min

Lab File: VV028588.D

Acq: 17 Oct 2022 14:57

Instrument :

MSVOA_V

ClientSampleId :

BFZ05DL

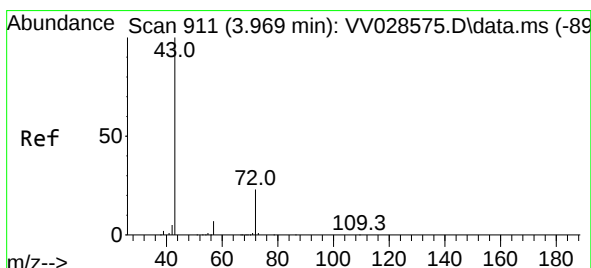
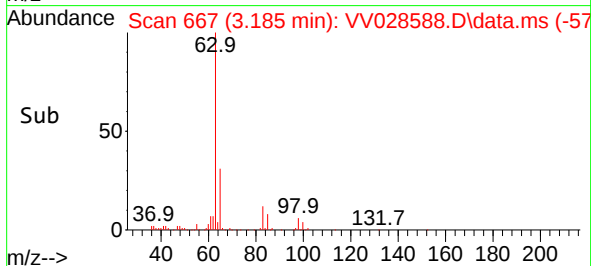
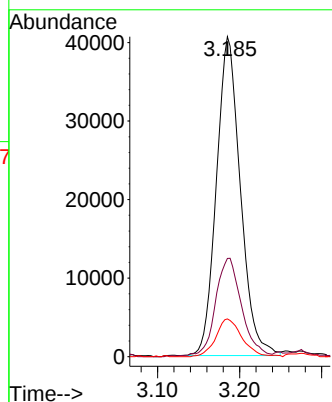
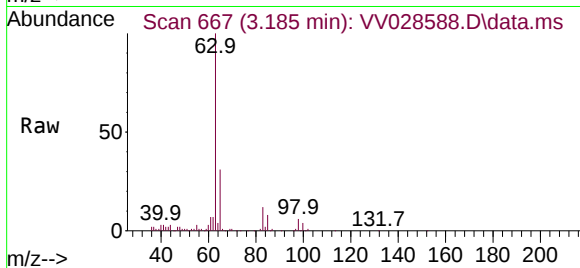
Tgt Ion: 63 Resp: 82448

Ion Ratio Lower Upper

63 100

65 30.7 22.3 41.5

83 11.8 8.5 15.7



#21

2-Butanone

Concen: 47.276 ug/L

RT: 3.757 min Scan# 845

Delta R.T. -0.212 min

Lab File: VV028588.D

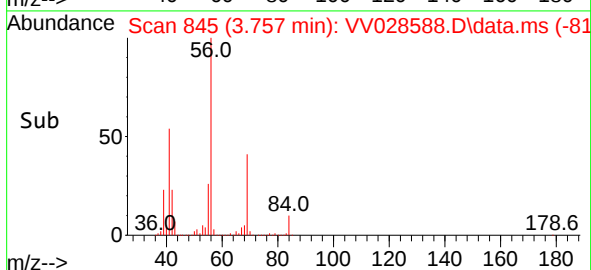
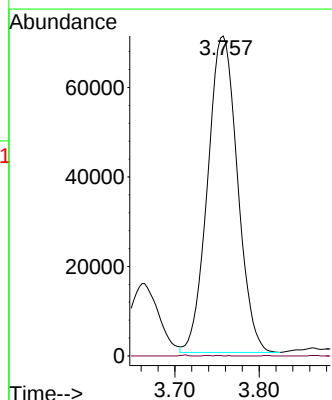
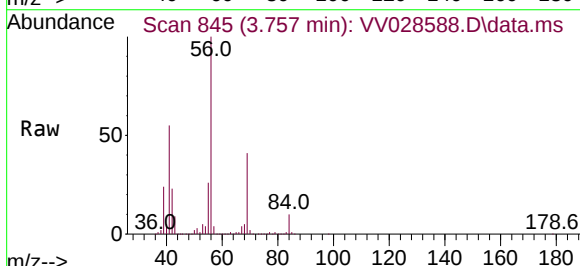
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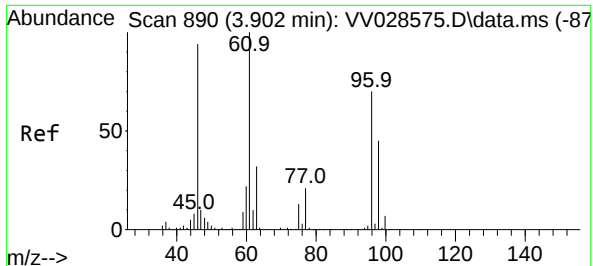
Tgt Ion: 43 Resp: 174109

Ion Ratio Lower Upper

43 100

72 0.0 11.1 33.3#

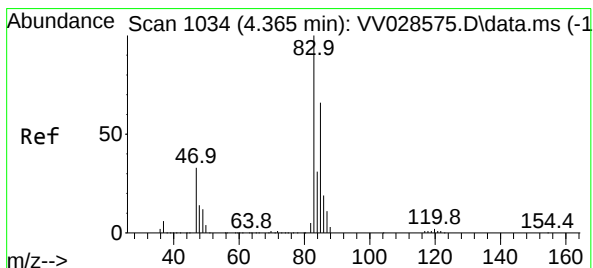
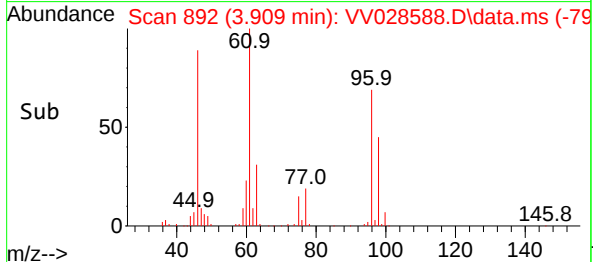
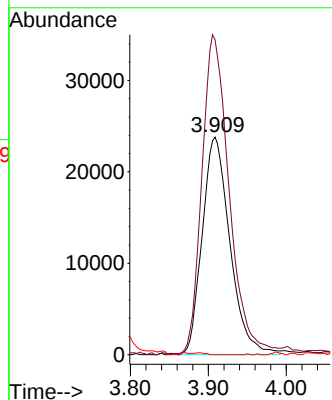
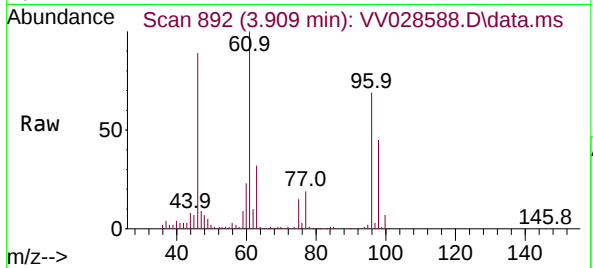




#22
 cis-1,2-Dichloroethene
 Concen: 4.055 ug/L
 RT: 3.909 min Scan# 891
 Delta R.T. 0.007 min
 Lab File: VV028588.D
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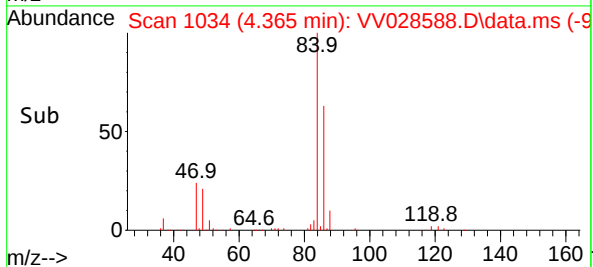
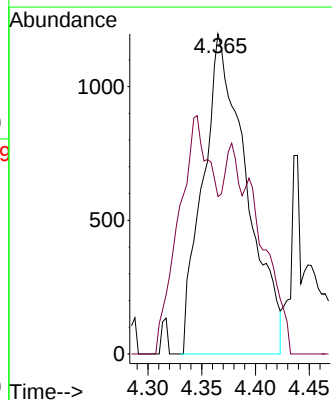
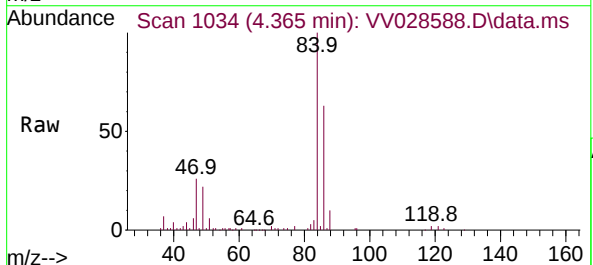
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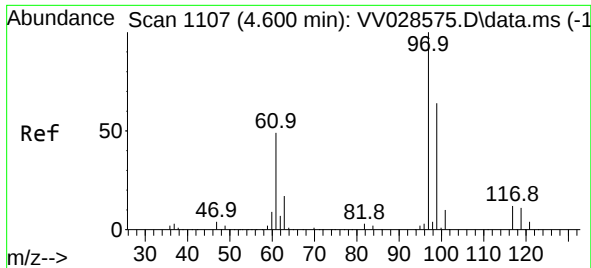
Tgt Ion: 96 Resp: 58836
 Ion Ratio Lower Upper
 96 100
 61 144.7 105.1 195.3
 68 0.0 0.5 0.9#



#25
 Chloroform
 Concen: 0.123 ug/L
 RT: 4.365 min Scan# 1034
 Delta R.T. 0.000 min
 Lab File: VV028588.D
 Acq: 17 Oct 2022 14:57

Tgt Ion: 83 Resp: 3369
 Ion Ratio Lower Upper
 83 100
 85 49.2 45.1 83.9

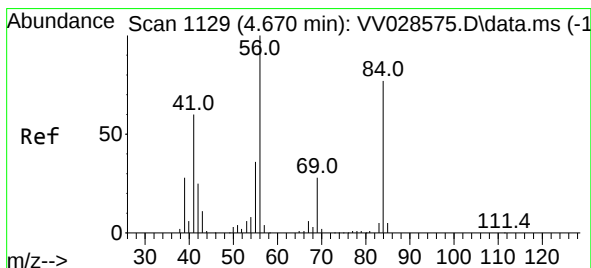
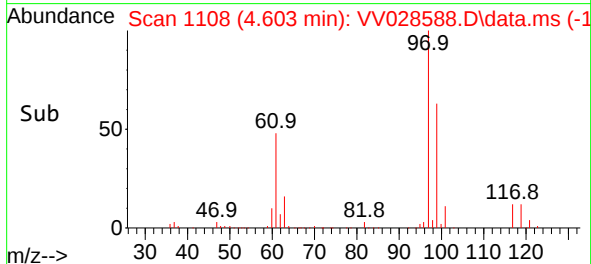
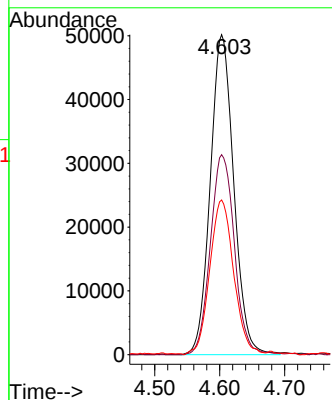
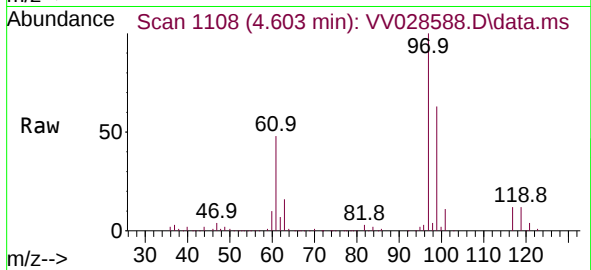




#29
1,1,1-Trichloroethane
Concen: 4.793 ug/L
RT: 4.603 min Scan# 1107
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

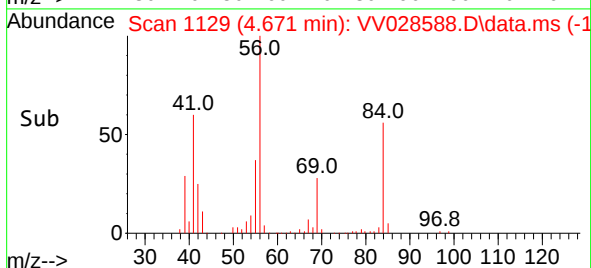
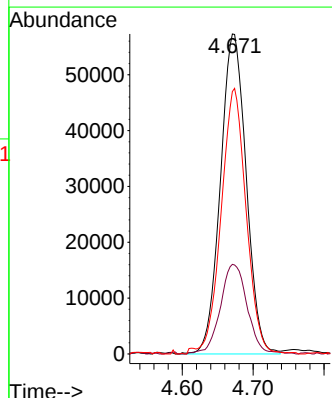
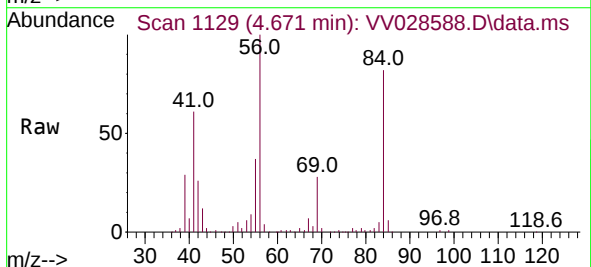
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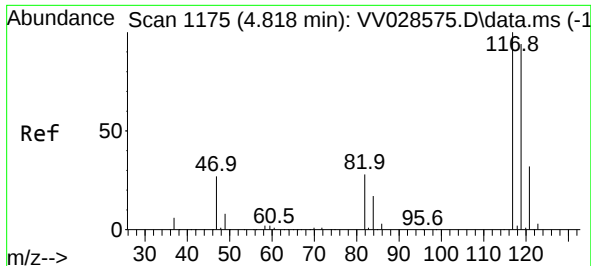
Tgt Ion: 97 Resp: 125934
Ion Ratio Lower Upper
97 100
99 64.1 52.6 78.8
61 49.4 42.1 63.1



#30
Cyclohexane
Concen: 4.771 ug/L
RT: 4.671 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion: 56 Resp: 144740
Ion Ratio Lower Upper
56 100
69 29.1 22.4 33.6
84 78.9 60.1 90.1

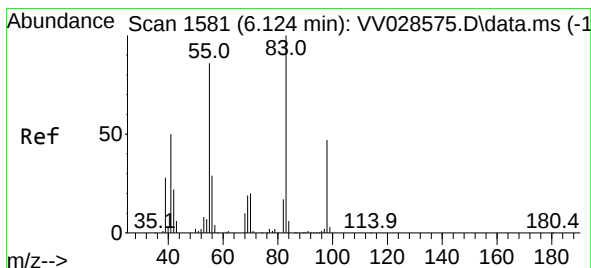
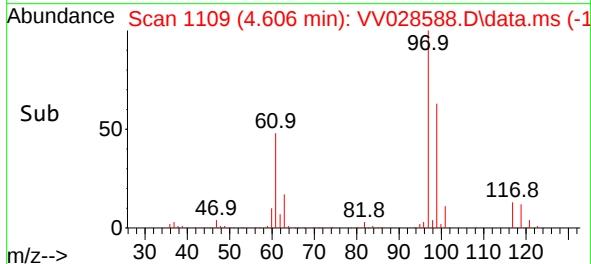
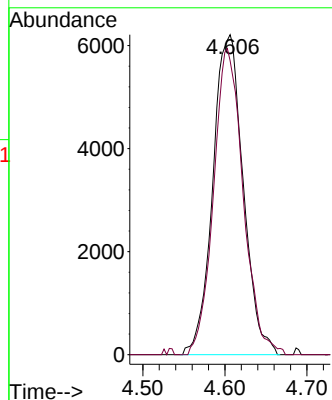
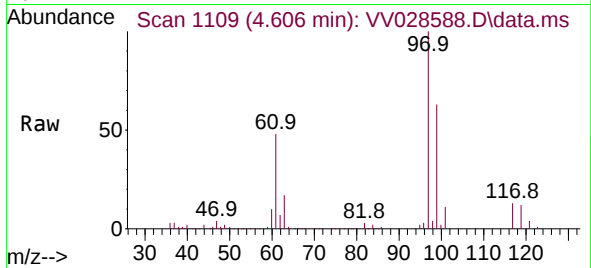




#31
Carbon tetrachloride
Concen: 0.774 ug/L
RT: 4.606 min Scan# 1175
Delta R.T. -0.212 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

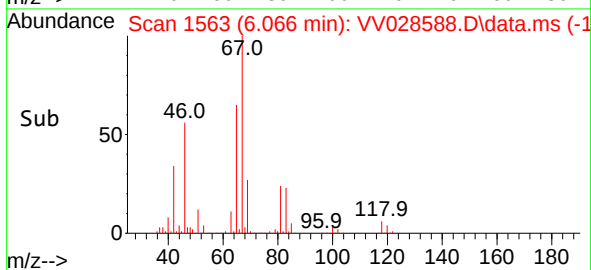
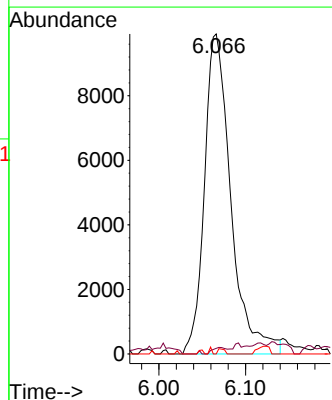
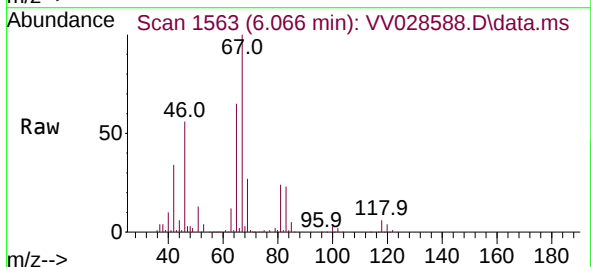
Instrument :
MSVOA_V
ClientSampleId :
BFZ05DL

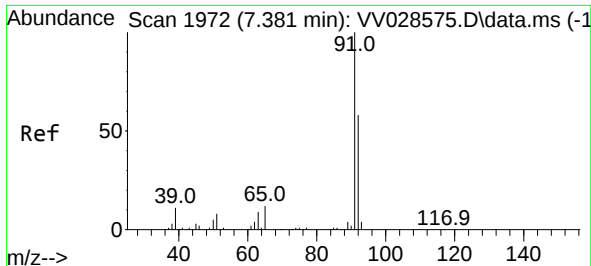
Tgt Ion: 117 Resp: 15999
Ion Ratio Lower Upper
117 100
119 93.3 75.5 113.3



#35
Methylcyclohexane
Concen: 0.788 ug/L
RT: 6.066 min Scan# 1563
Delta R.T. -0.058 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion: 83 Resp: 21045
Ion Ratio Lower Upper
83 100
55 1.1 65.0 97.6#
98 0.4 36.4 54.6#

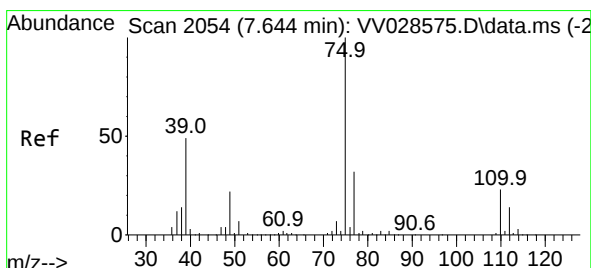
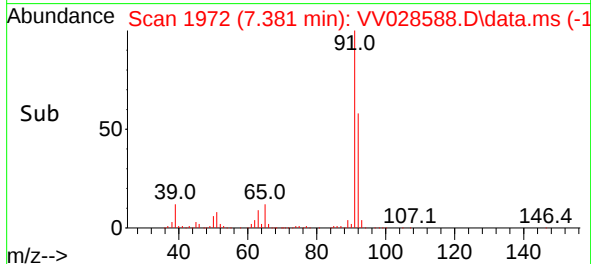
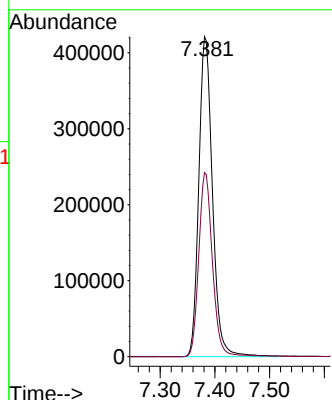
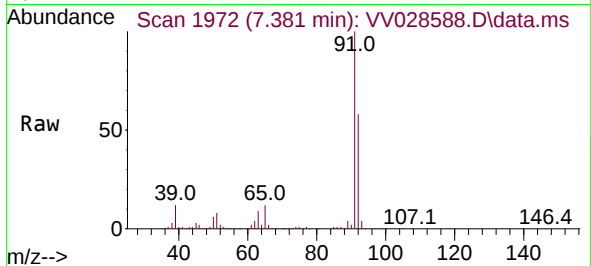




#42
Toluene
Concen: 11.586 ug/L
RT: 7.381 min Scan# 1972
Delta R.T. 0.000 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

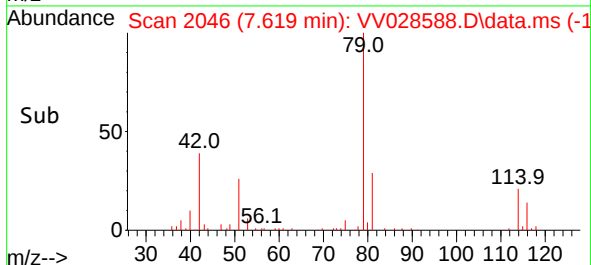
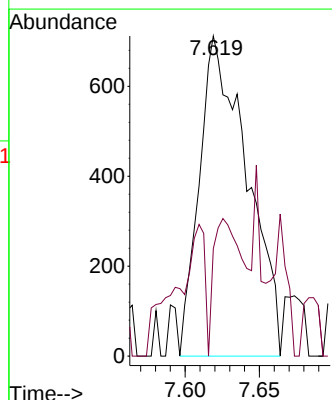
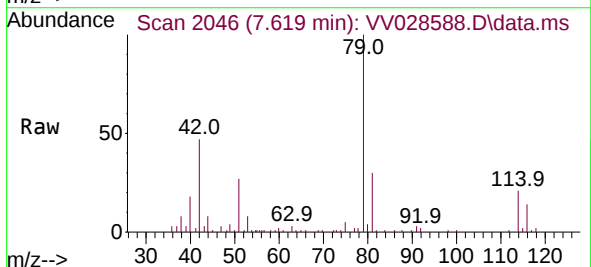
Instrument :
MSVOA_V
ClientSampleId :
BFZ05DL

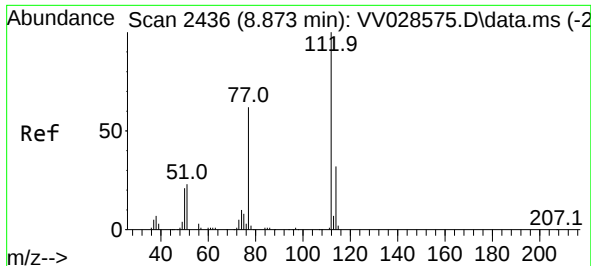
Tgt Ion: 91 Resp: 730226
Ion Ratio Lower Upper
91 100
92 57.5 40.7 75.5



#44
trans-1,3-Dichloropropene
Concen: 0.091 ug/L
RT: 7.619 min Scan# 2046
Delta R.T. -0.026 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion: 75 Resp: 1592
Ion Ratio Lower Upper
75 100
77 33.6 21.7 40.3

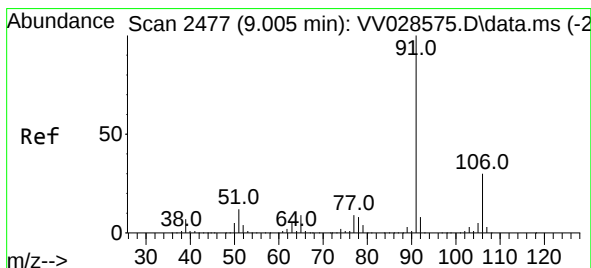
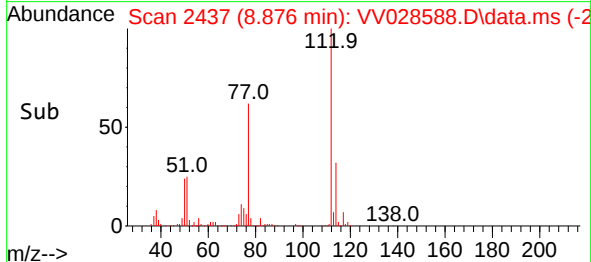
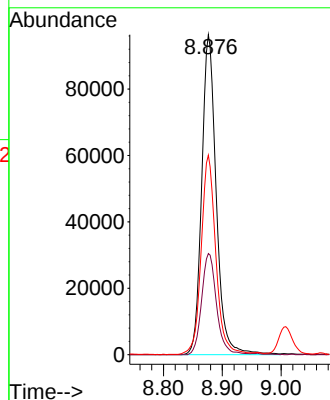
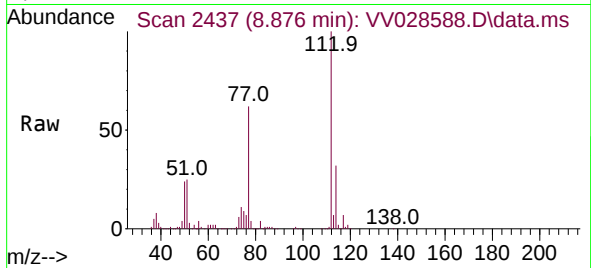




#51
Chlorobenzene
Concen: 4.228 ug/L
RT: 8.876 min Scan# 2436
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

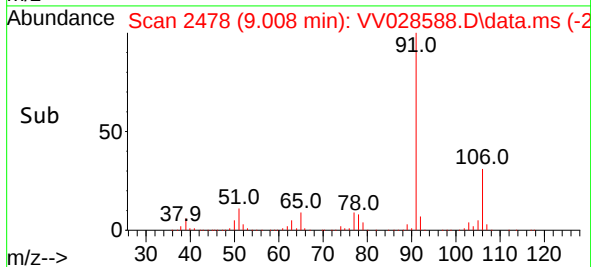
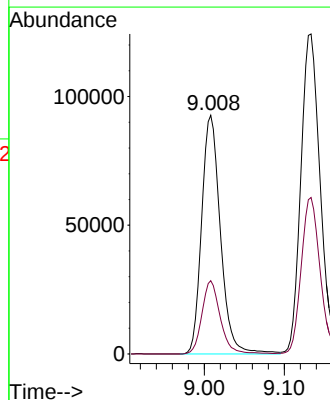
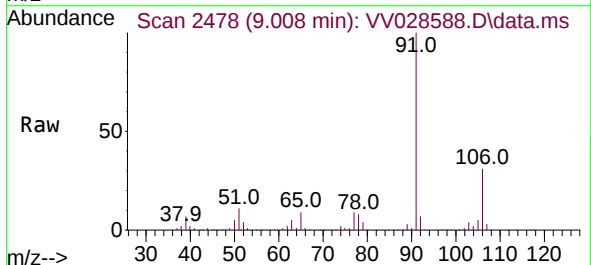
Instrument :
MSVOA_V
ClientSampleId :
BFZ05DL

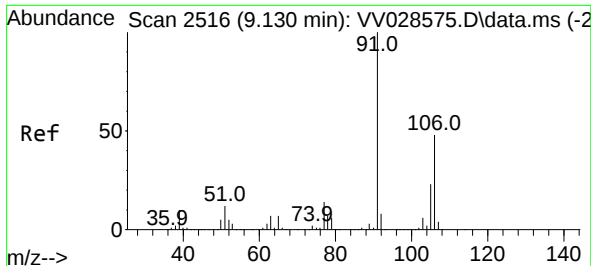
Tgt Ion:112 Resp: 165188
Ion Ratio Lower Upper
112 100
114 31.6 22.4 41.6
77 62.3 50.2 75.2



#52
Ethylbenzene
Concen: 2.173 ug/L
RT: 9.008 min Scan# 2478
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion: 91 Resp: 152163
Ion Ratio Lower Upper
91 100
106 30.7 20.3 37.7

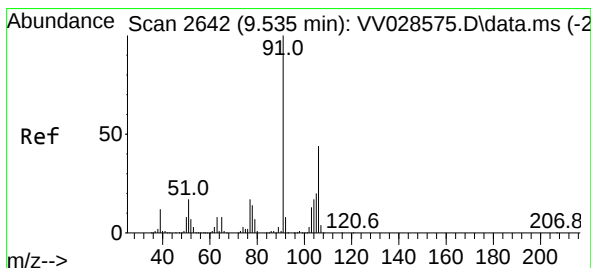
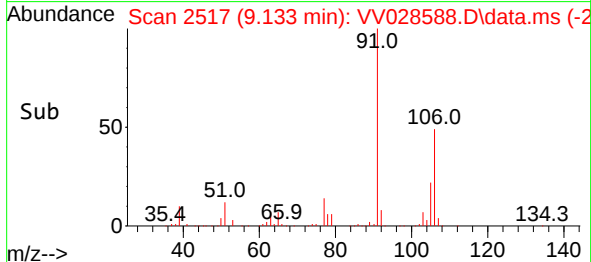
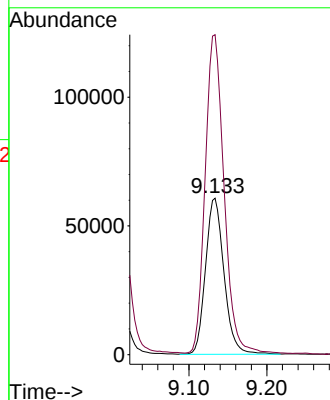
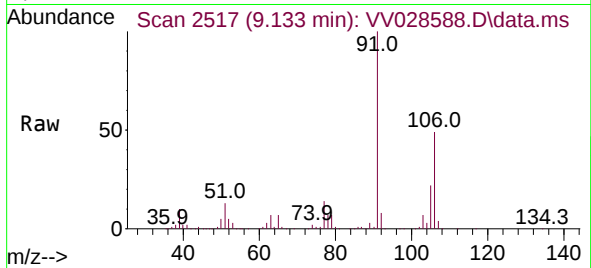




#53
m,p-Xylene
Concen: 3.828 ug/L
RT: 9.133 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

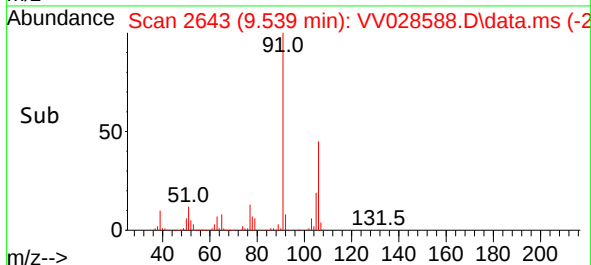
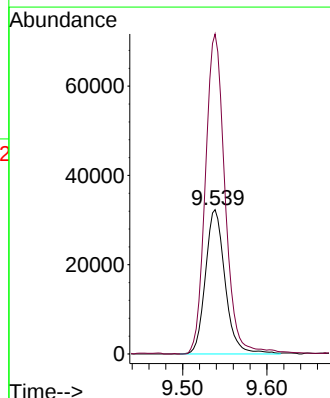
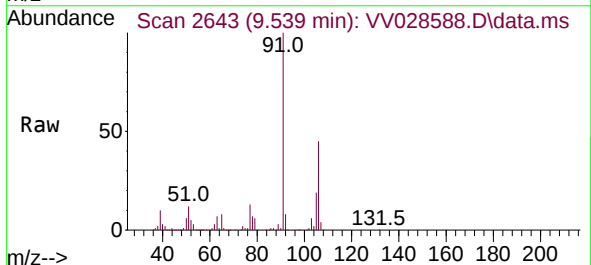
Instrument :
MSVOA_V
ClientSampleId :
BFZ05DL

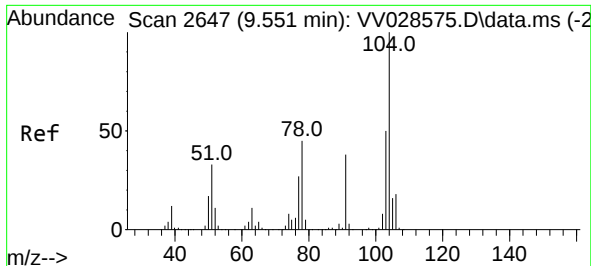
Tgt Ion:106 Resp: 100239
Ion Ratio Lower Upper
106 100
91 204.5 146.9 272.9



#54
o-Xylene
Concen: 2.077 ug/L
RT: 9.539 min Scan# 2643
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion:106 Resp: 52716
Ion Ratio Lower Upper
106 100
91 221.7 151.4 281.2

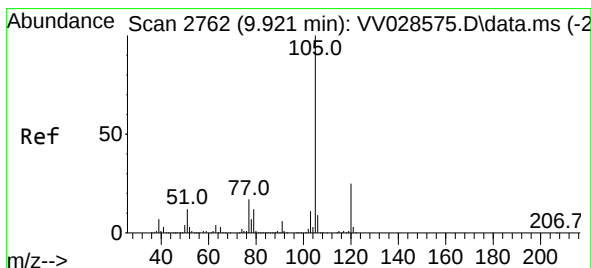
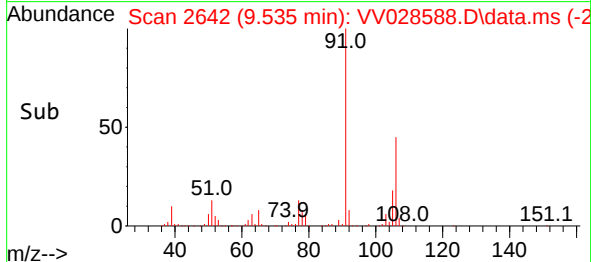
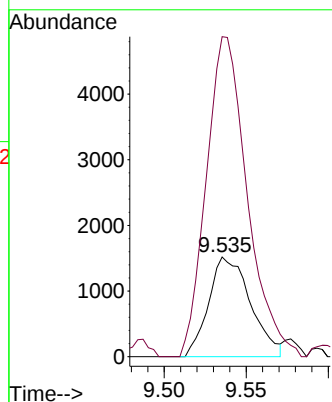
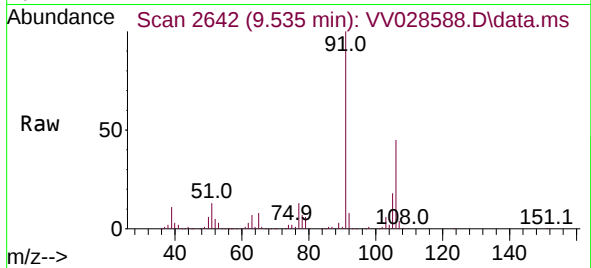




#55
 Styrene
 Concen: 0.063 ug/L
 RT: 9.535 min Scan# 2642
 Delta R.T. -0.016 min
 Lab File: VV028588.D
 Acq: 17 Oct 2022 14:57

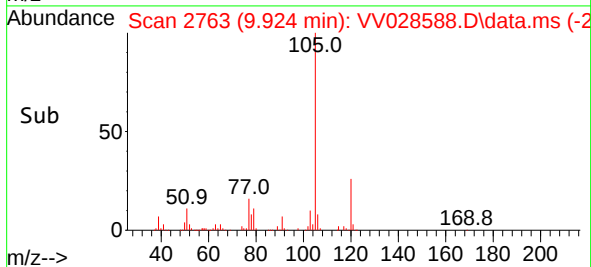
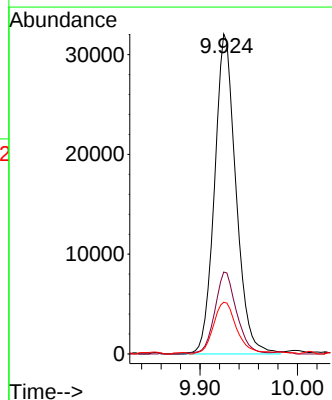
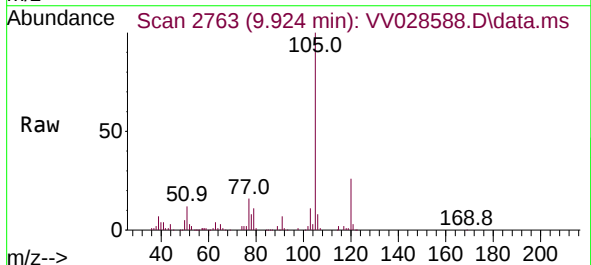
Instrument :
 MSVOA_V
 ClientSampleId :
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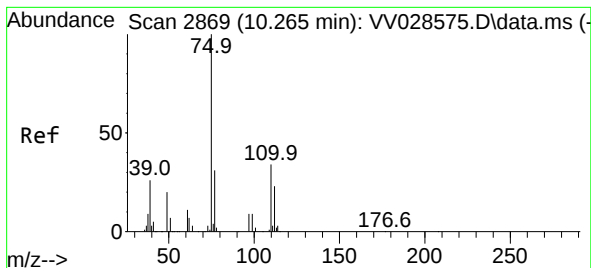
Tgt Ion:104 Resp: 2693
 Ion Ratio Lower Upper
 104 100
 78 320.7 32.3 60.1#



#60
 Isopropylbenzene
 Concen: 0.700 ug/L
 RT: 9.924 min Scan# 2763
 Delta R.T. 0.003 min
 Lab File: VV028588.D
 Acq: 17 Oct 2022 14:57

Tgt Ion:105 Resp: 48984
 Ion Ratio Lower Upper
 105 100
 120 26.0 20.7 31.1
 77 17.7 13.1 19.7





#61

1,2,3-Trichloropropane

Concen: 0.190 ug/L

RT: 10.346 min Scan# 21

Delta R.T. 0.081 min

Lab File: VV028588.D

Acq: 17 Oct 2022 14:57

Instrument :

MSVOA_V

ClientSampleId :

BFZ05DL

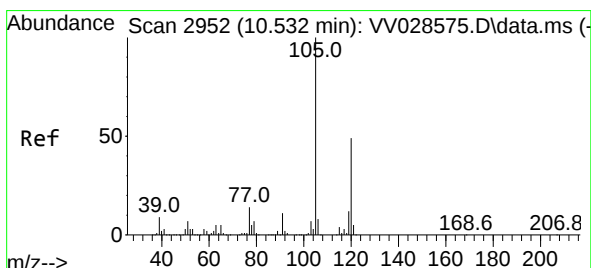
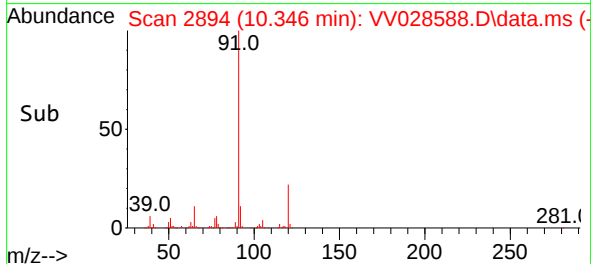
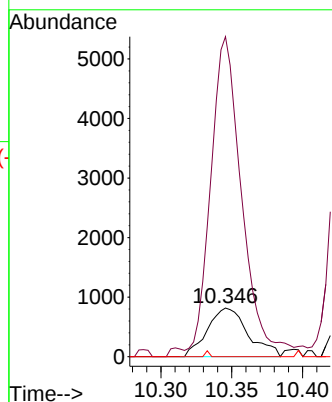
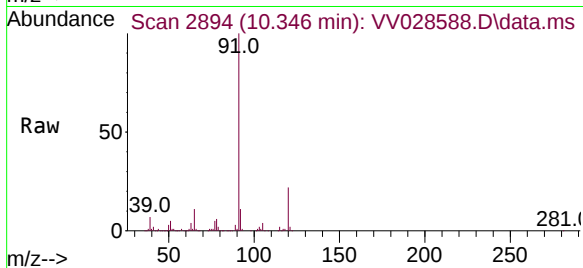
Tgt Ion: 75 Resp: 1628

Ion Ratio Lower Upper

75 100

77 474.6 24.6 37.0#

110 0.0 28.3 42.5#



#62

1,3,5-Trimethylbenzene

Concen: 6.516 ug/L

RT: 10.532 min Scan# 2952

Delta R.T. 0.000 min

Lab File: VV028588.D

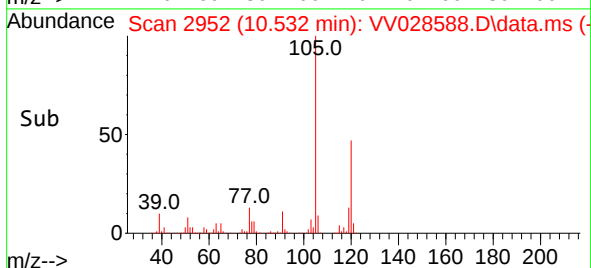
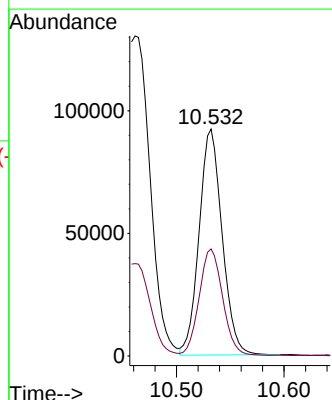
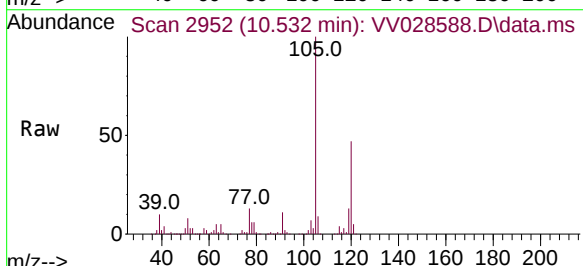
Acq: 17 Oct 2022 14:57

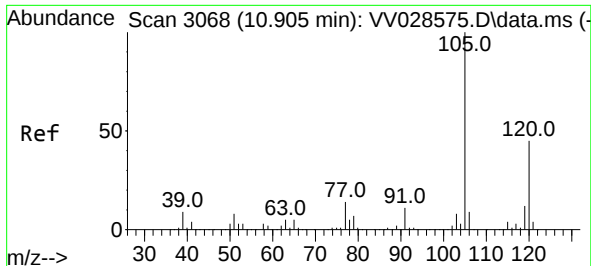
Tgt Ion: 105 Resp: 137123

Ion Ratio Lower Upper

105 100

120 47.8 38.0 57.0

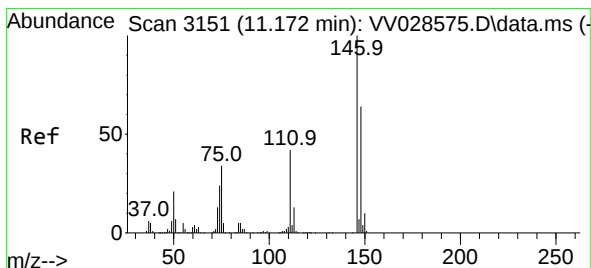
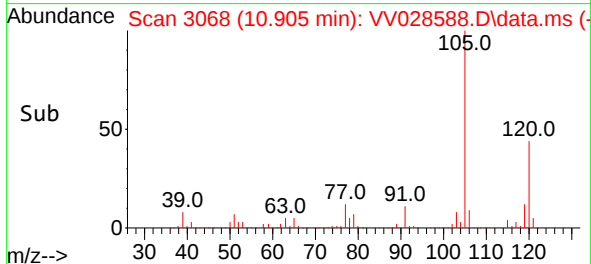
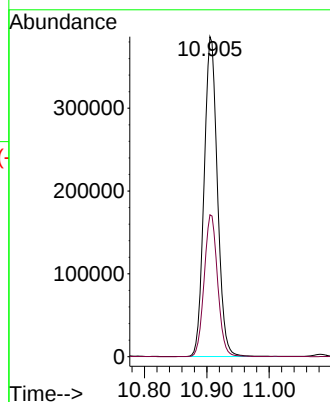
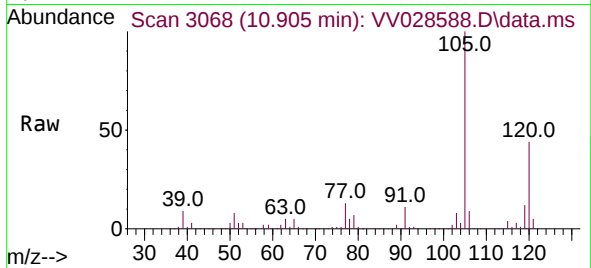




#63
1,2,4-Trimethylbenzene
Concen: 9.971 ug/L
RT: 10.905 min Scan# 3068
Delta R.T. 0.000 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

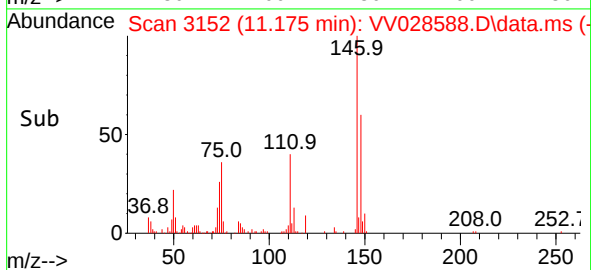
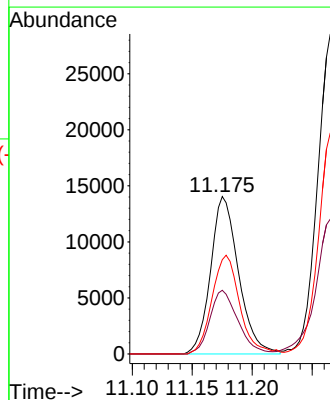
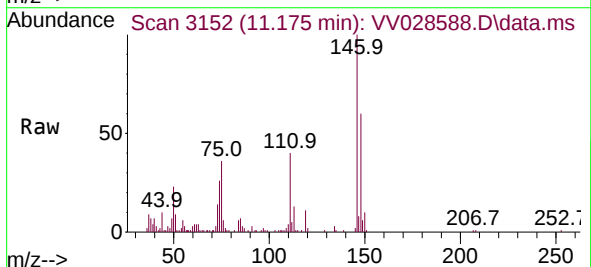
Instrument :
MSVOA_V
ClientSampleId :
BFZ05DL

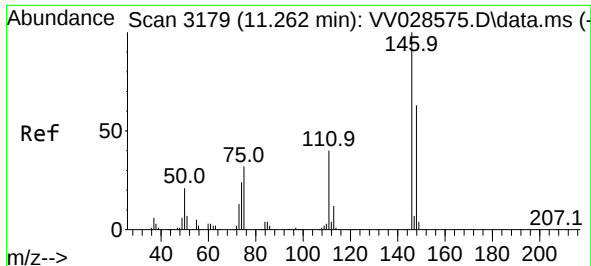
Tgt Ion:105 Resp: 573738
Ion Ratio Lower Upper
105 100
120 44.9 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 0.771 ug/L
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion:146 Resp: 22755
Ion Ratio Lower Upper
146 100
111 40.5 28.5 52.9
148 59.9 45.1 83.9

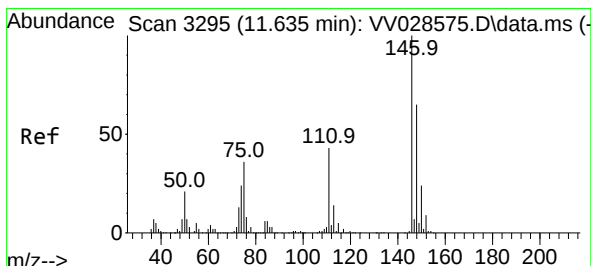
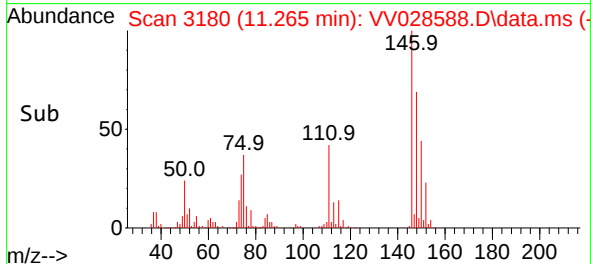
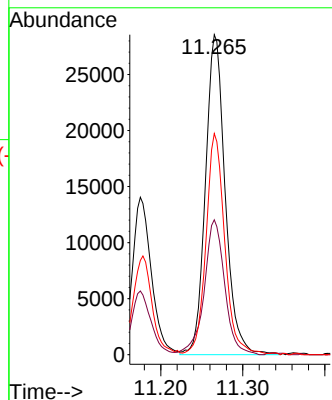
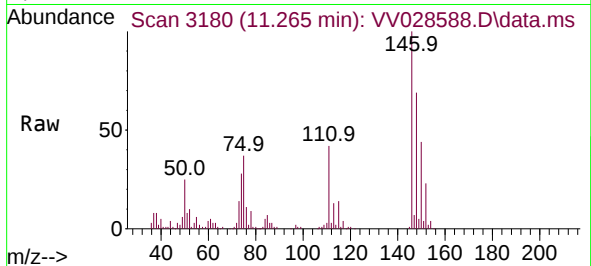




#65
1,4-Dichlorobenzene
Concen: 1.655 ug/L
RT: 11.265 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

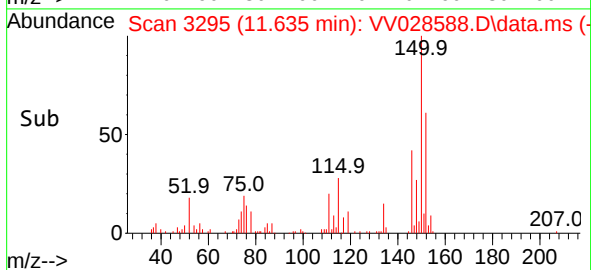
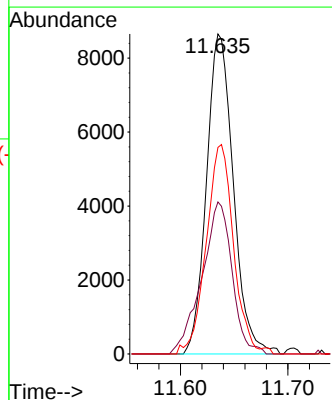
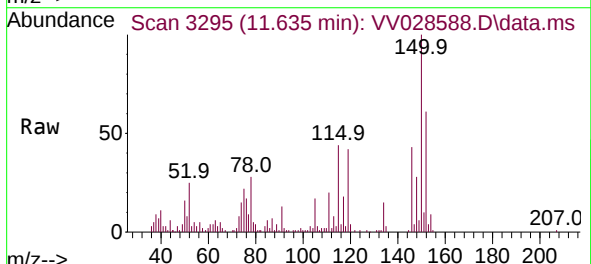
Instrument :
MSVOA_V
ClientSampleId :
BFZ05DL

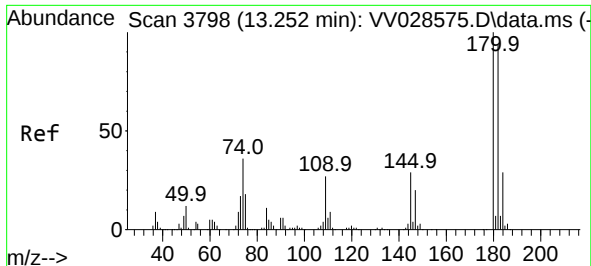
Tgt Ion:146 Resp: 47862
Ion Ratio Lower Upper
146 100
111 42.1 29.4 54.6
148 69.1 45.9 85.3



#67
1,2-Dichlorobenzene
Concen: 0.567 ug/L
RT: 11.635 min Scan# 3295
Delta R.T. 0.000 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

Tgt Ion:146 Resp: 15007
Ion Ratio Lower Upper
146 100
111 47.5 35.7 53.5
148 64.6 51.0 76.6

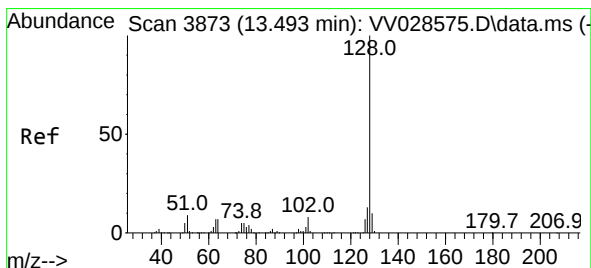
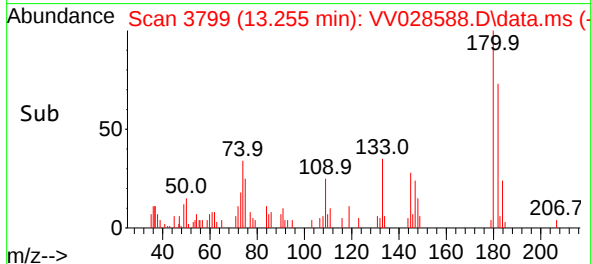
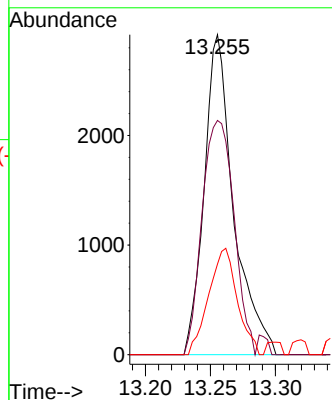
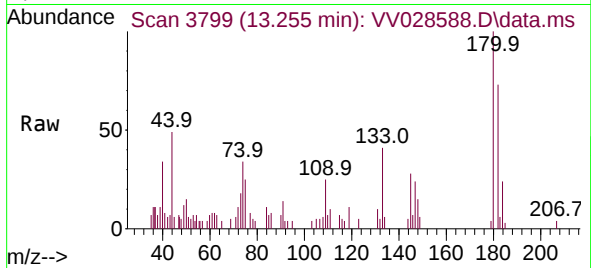




#70
1,2,4-trichlorobenzene
Concen: 0.279 ug/L
RT: 13.255 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

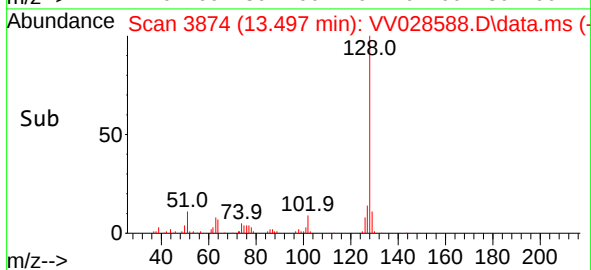
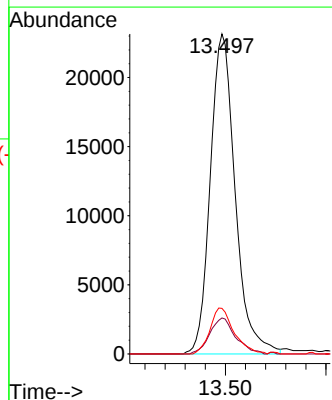
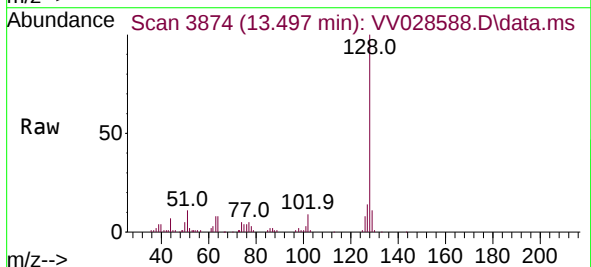
Instrument :
MSVOA_V
ClientSampleId :
BFZ05DL

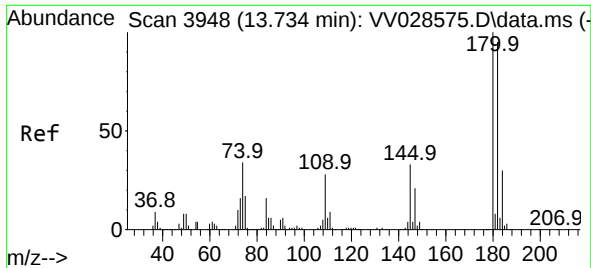
Tgt Ion:180 Resp: 4592
Ion Ratio Lower Upper
180 100
182 79.4 74.2 111.2
145 32.3 25.3 37.9



#71
Naphthalene
Concen: 1.614 ug/L
RT: 13.497 min Scan# 3874
Delta R.T. 0.003 min
Lab File: VV028588.D
Acq: 17 Oct 2022 14:57

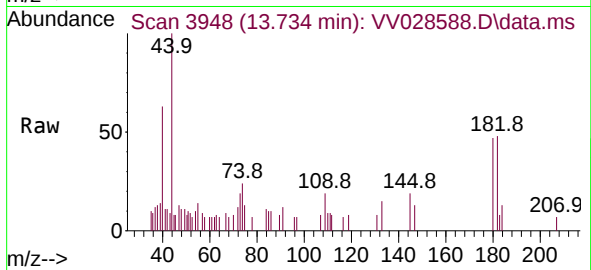
Tgt Ion:128 Resp: 39767
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.6
127 13.8 10.1 15.1





#72
 1,2,3-Trichlorobenzene
 Concen: 0.091 ug/L
 RT: 13.734 min Scan# 3948
 Delta R.T. 0.000 min
 Lab File: VV028588.D
 Acq: 17 Oct 2022 14:57

Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ05DL



Tgt Ion:180 Resp: 1234
 Ion Ratio Lower Upper
 180 100
 182 101.1 76.3 114.5
 145 42.1 25.8 38.8#

