

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW011524\
 Data File : VW033650.D
 Acq On : 15 Jan 2024 18:09
 Operator : SY/MD
 Sample : P1131-18
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 16 03:48:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Jan 16 03:40:53 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	109236	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	101050	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	52503	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	23467	3.929	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.600%
7) Chloroethane-d5	1.526	69	22794	4.303	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.000%
11) 1,1-Dichloroethene-d2	2.053	65	12091	4.492	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.800%
20) 2-Butanone-d5	3.879	46	55343	37.894	ug/L	0.06
Spiked Amount	50.000	Range	40 - 130	Recovery	=	75.780%
24) Chloroform-d	4.246	84	59117	4.577	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.600%
26) 1,2-Dichloroethane-d4	4.944	65	28189	4.867	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.400%
32) Benzene-d6	4.957	84	111467	4.572	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.400%
36) 1,2-Dichloropropane-d6	5.989	67	37356	4.595	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.000%
41) Toluene-d8	7.243	98	98750	4.537	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.800%
43) trans-1,3-Dichloroprop...	7.561	79	12402	4.413	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.200%
46) 2-Hexanone-d5	8.034	63	53855	48.810	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.620%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	22882	4.817	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.400%
66) 1,2-Dichlorobenzene-d4	11.561	152	36723	4.556	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.278	62	62710	5.519	ug/L	96
8) Chloroethane	1.452	64	4103	0.595	ug/L #	51
15) Methyl Acetate	2.362	43	607	0.214	ug/L #	56
18) trans-1,2-Dichloroethene	2.687	96	1984	0.228	ug/L	97
19) 1,1-Dichloroethane	3.108	63	11983	0.693	ug/L	96
22) cis-1,2-Dichloroethene	3.809	96	124259	13.643	ug/L	98
27) 1,2-Dichloroethane	5.053	62	1675	0.185	ug/L #	76
30) Cyclohexane	4.577	56	6110	0.356	ug/L	97
33) Benzene	5.008	78	45531	1.269	ug/L	100
35) Methylcyclohexane	6.047	83	4213	0.261	ug/L #	70
38) Bromodichloromethane	6.487	83	1267	0.117	ug/L #	25
39) cis-1,3-Dichloropropene	6.918	75	998	0.078	ug/L #	47
42) Toluene	7.323	91	5577	0.147	ug/L	90
45) 1,1,2-Trichloroethane	7.715	97	2408	0.486	ug/L #	20
51) Chlorobenzene	8.812	112	84769	3.647	ug/L	99
52) Ethylbenzene	8.953	91	1871	0.043	ug/L	97
53) m,p-Xylene	9.075	106	5265	0.325	ug/L	94
54) o-Xylene	9.484	106	947	0.060	ug/L	76
60) Isopropylbenzene	10.677	105	12105	0.291	ug/L	98

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

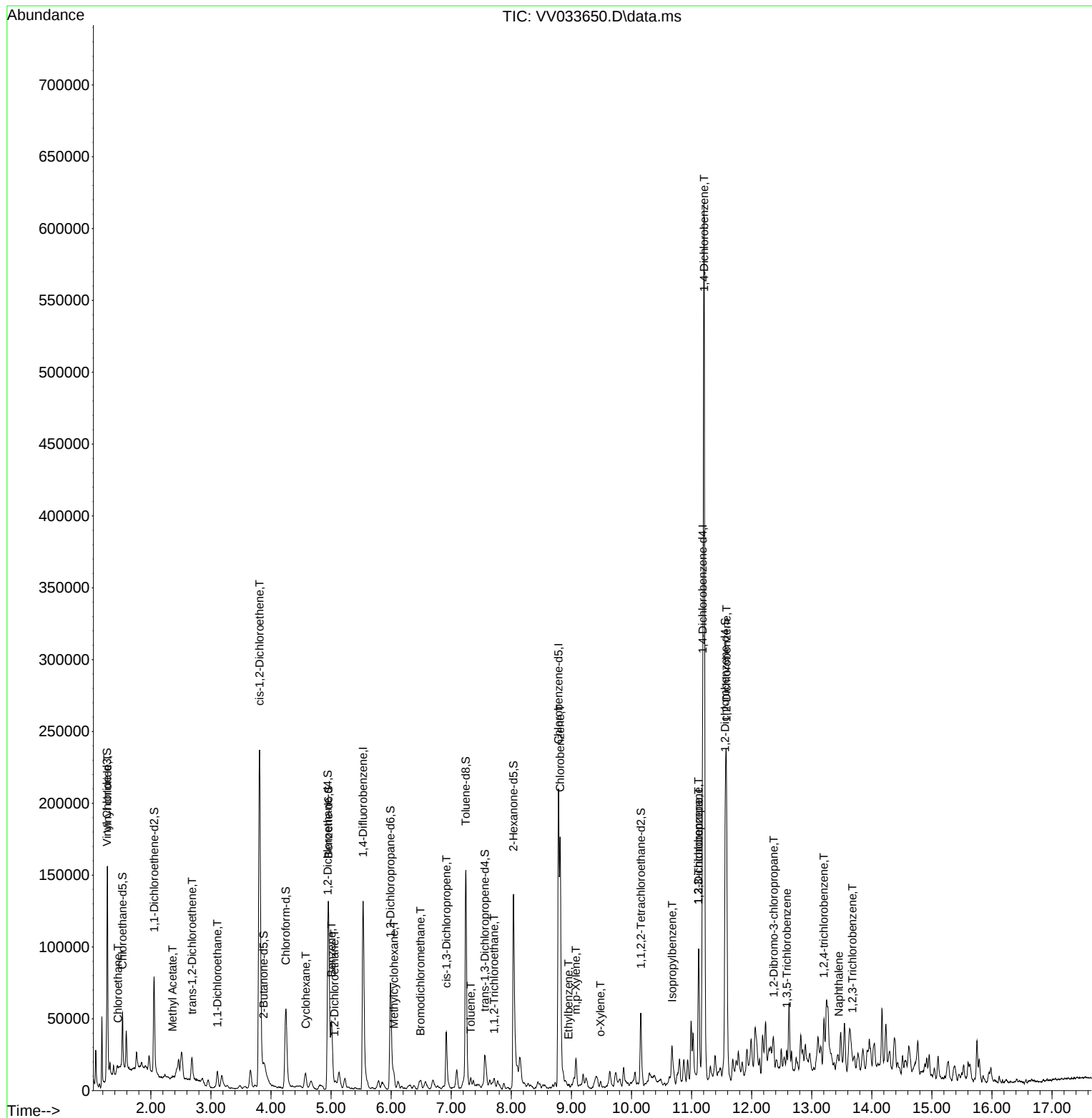
61) 1,2,3-Trichloropropane	11.117	75	11469	2.725	ug/L #	69
64) 1,3-Dichlorobenzene	11.117	146	34303	1.867	ug/L	98
65) 1,4-Dichlorobenzene	11.207	146	218618	12.153	ug/L	98
67) 1,2-Dichlorobenzene	11.580	146	64232	4.023	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.368	75	638	0.690	ug/L #	5
69) 1,3,5-Trichlorobenzene	12.586	180	2902	0.203	ug/L	98
70) 1,2,4-trichlorobenzene	13.201	180	5417	0.456	ug/L #	75
71) Naphthalene	13.451	128	1412	0.071	ug/L #	82
72) 1,2,3-Trichlorobenzene	13.676	180	791	0.083	ug/L #	3

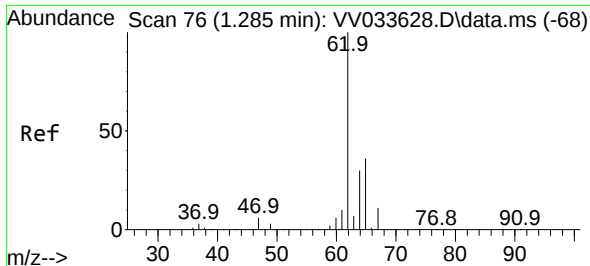
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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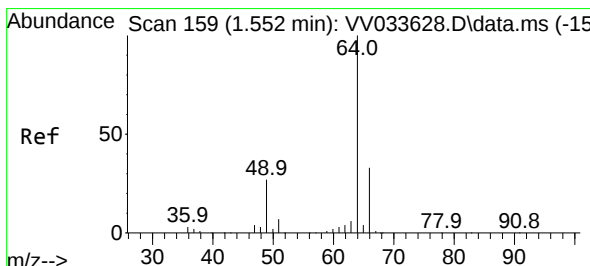
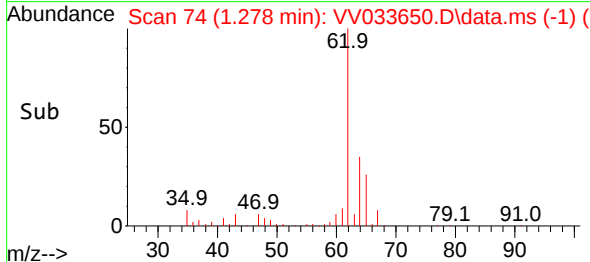
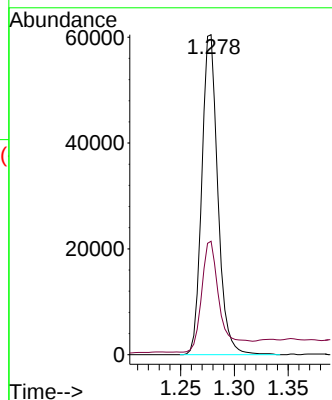
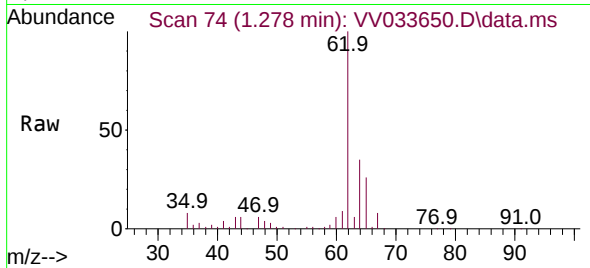




#5
 Vinyl chloride
 Concen: 5.519 ug/L
 RT: 1.278 min Scan# 74
 Delta R.T. -0.007 min
 Lab File: VV033650.D
 Acq: 15 Jan 2024 18:09

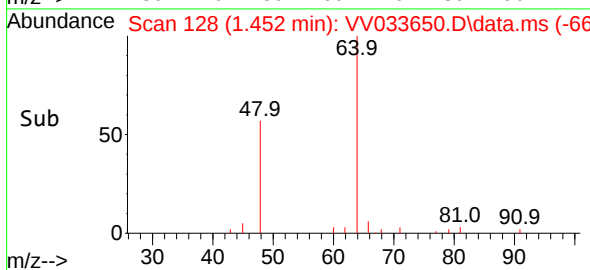
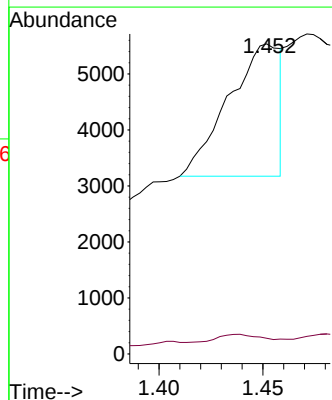
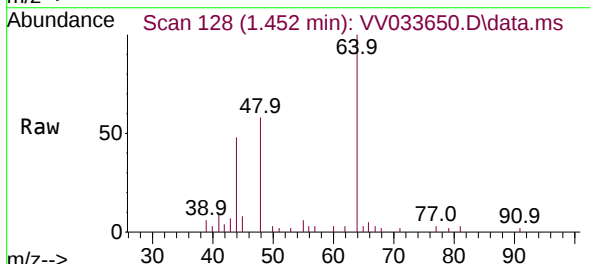
Instrument :
 MSVOA_V
 ClientSampleId :

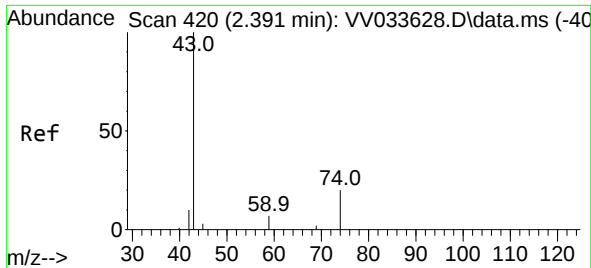
Tgt Ion: 62 Resp: 62710
 Ion Ratio Lower Upper
 62 100
 64 35.4 23.0 42.8



#8
 Chloroethane
 Concen: 0.595 ug/L
 RT: 1.452 min Scan# 128
 Delta R.T. -0.100 min
 Lab File: VV033650.D
 Acq: 15 Jan 2024 18:09

Tgt Ion: 64 Resp: 4103
 Ion Ratio Lower Upper
 64 100
 66 5.1 22.6 42.0#

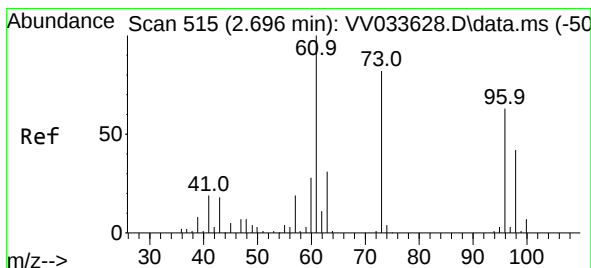
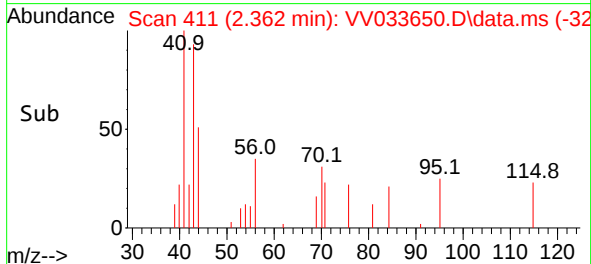
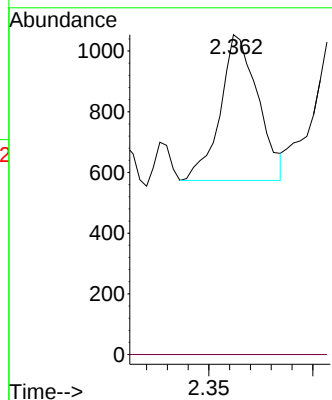
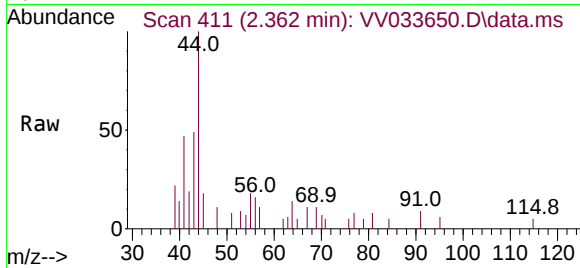




#15
Methyl Acetate
Concen: 0.214 ug/L
RT: 2.362 min Scan# 411
Delta R.T. -0.029 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

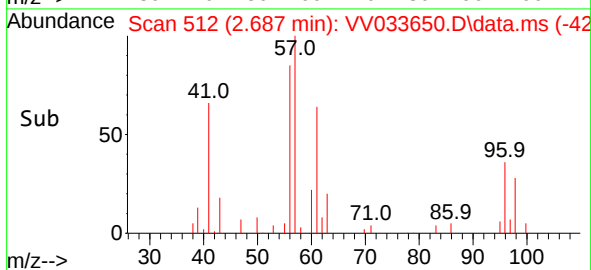
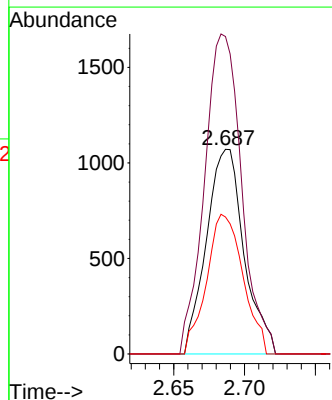
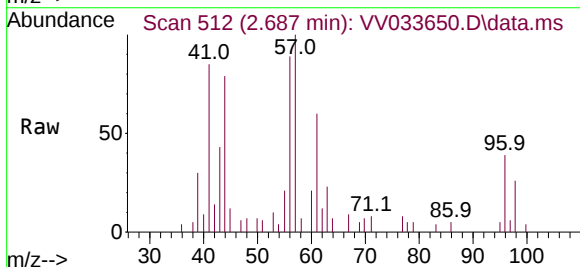
Instrument :
MSVOA_V
ClientSampleId :

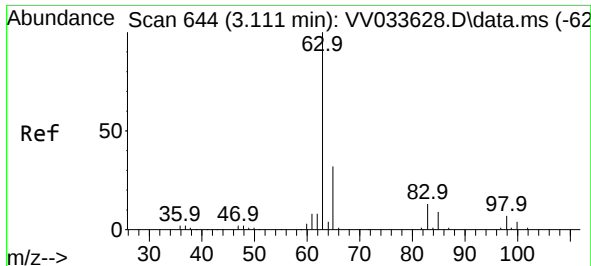
Tgt Ion: 43 Resp: 607
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#18
trans-1,2-Dichloroethene
Concen: 0.228 ug/L
RT: 2.687 min Scan# 512
Delta R.T. -0.010 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

Tgt Ion: 96 Resp: 1984
Ion Ratio Lower Upper
96 100
61 155.2 110.4 205.0
98 66.9 44.1 81.9





#19

1,1-Dichloroethane

Concen: 0.693 ug/L

RT: 3.108 min Scan# 64

Delta R.T. -0.003 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

Instrument :

MSVOA_V

ClientSampleId :

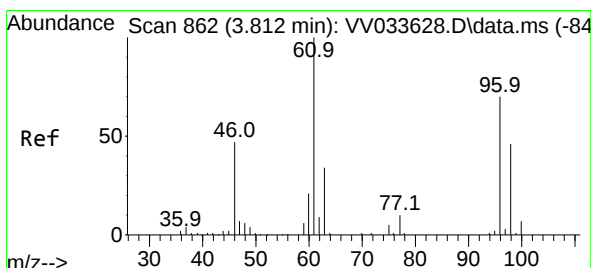
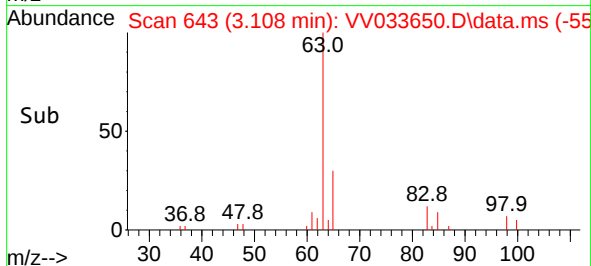
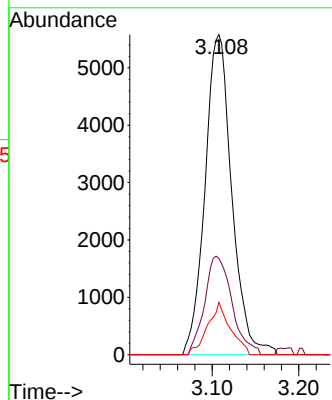
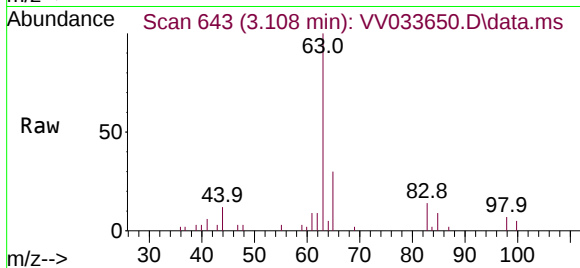
Tgt Ion: 63 Resp: 11983

Ion Ratio Lower Upper

63 100

65 30.1 21.6 40.2

83 16.3 9.1 16.9



#22

cis-1,2-Dichloroethene

Concen: 13.643 ug/L

RT: 3.809 min Scan# 861

Delta R.T. -0.003 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

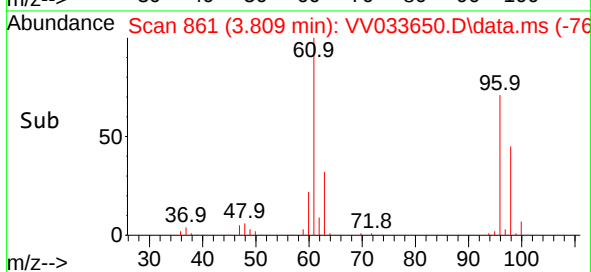
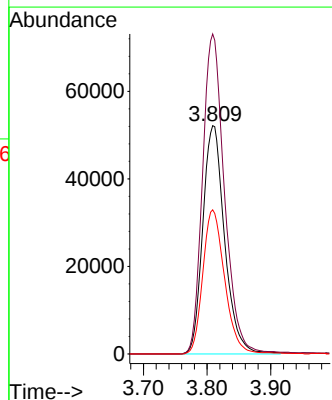
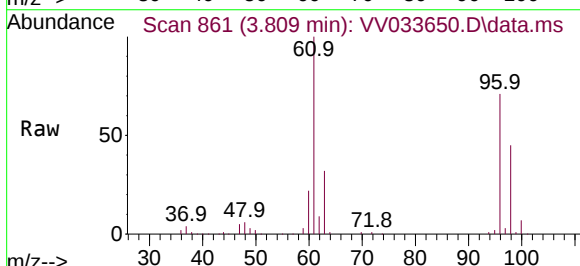
Tgt Ion: 96 Resp: 124259

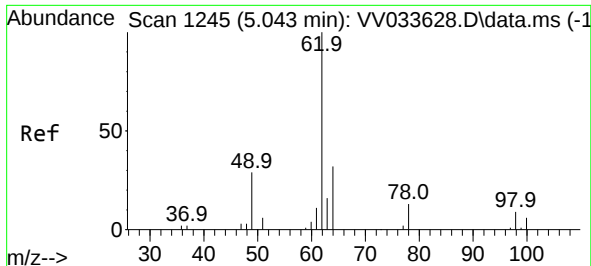
Ion Ratio Lower Upper

96 100

61 140.2 97.1 180.3

98 63.2 42.6 79.0





#27

1,2-Dichloroethane

Concen: 0.185 ug/L

RT: 5.053 min Scan# 1100

Delta R.T. 0.010 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

Instrument :

MSVOA_V

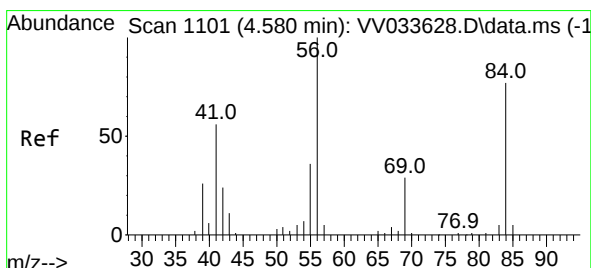
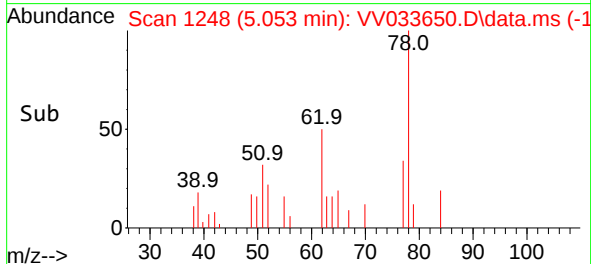
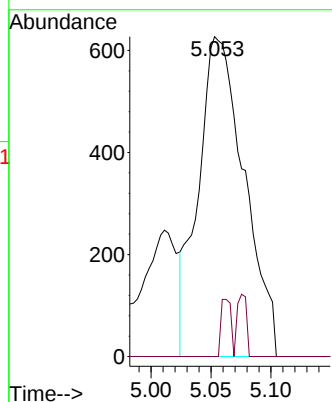
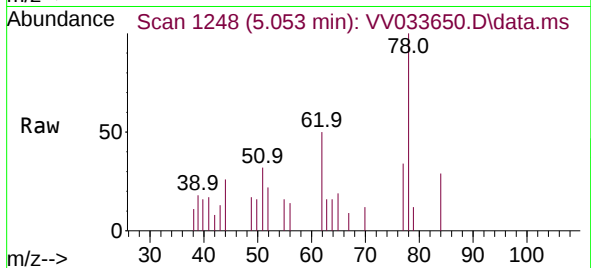
ClientSampleId :

Tgt Ion: 62 Resp: 1675

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.6#



#30

Cyclohexane

Concen: 0.356 ug/L

RT: 4.577 min Scan# 1100

Delta R.T. -0.003 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

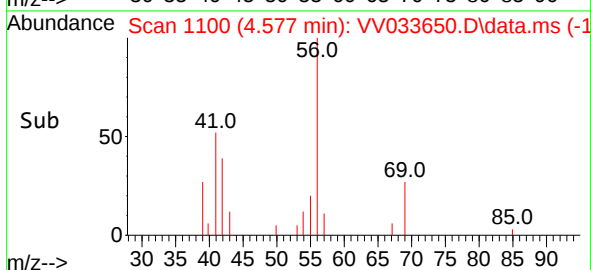
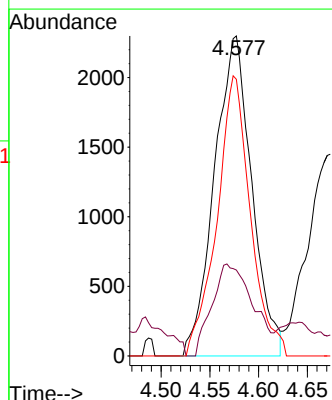
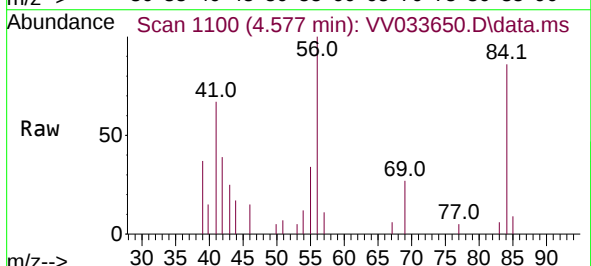
Tgt Ion: 56 Resp: 6110

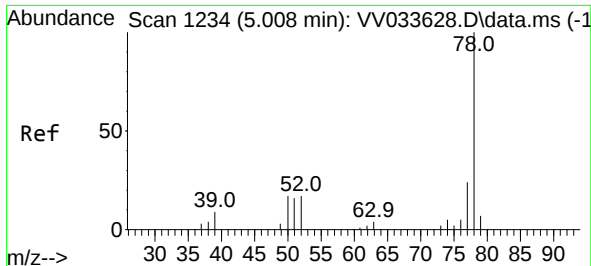
Ion Ratio Lower Upper

56 100

69 31.8 23.3 34.9

84 78.6 61.7 92.5

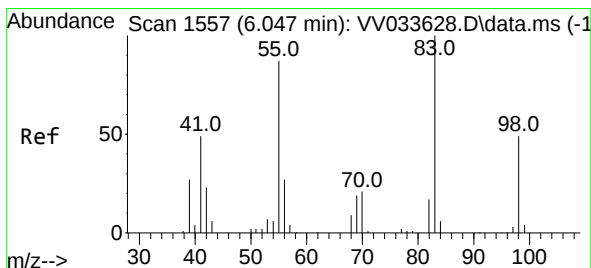
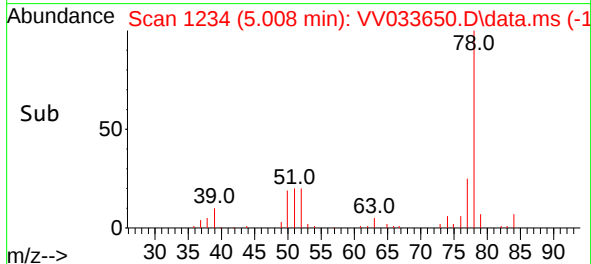
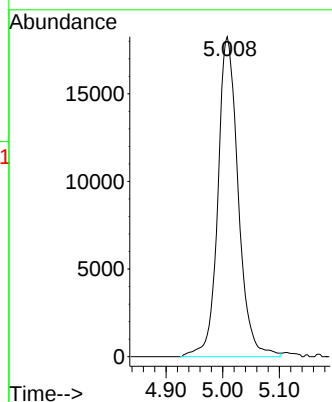
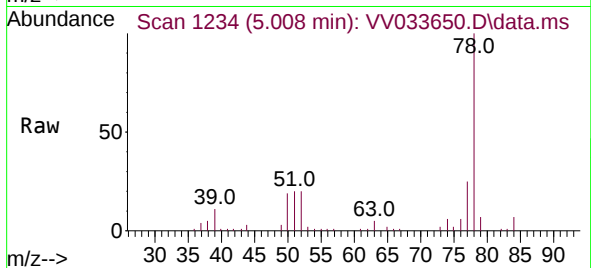




#33
Benzene
Concen: 1.269 ug/L
RT: 5.008 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

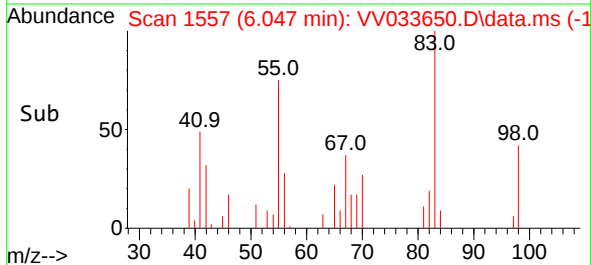
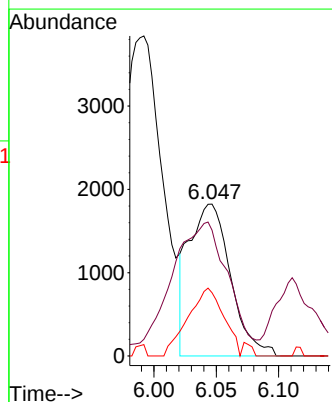
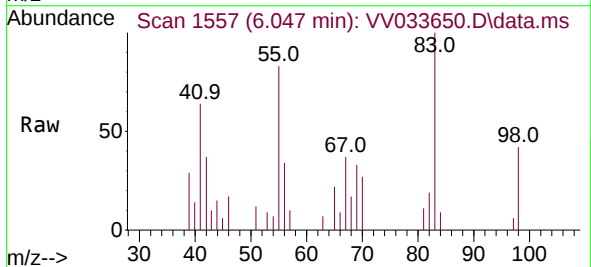
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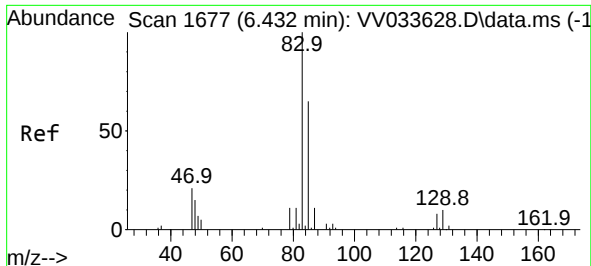
Tgt Ion: 78 Resp: 45531



#35
Methylcyclohexane
Concen: 0.261 ug/L
RT: 6.047 min Scan# 1557
Delta R.T. -0.000 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

Tgt Ion: 83 Resp: 4213
Ion Ratio Lower Upper
83 100
55 121.3 68.7 103.1#
98 38.6 38.3 57.5

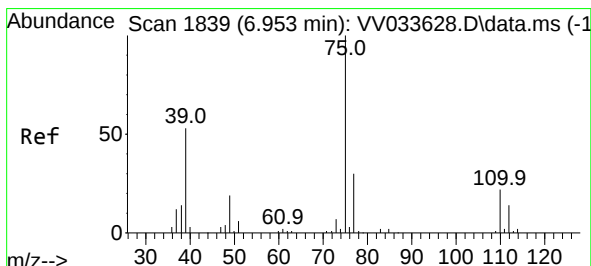
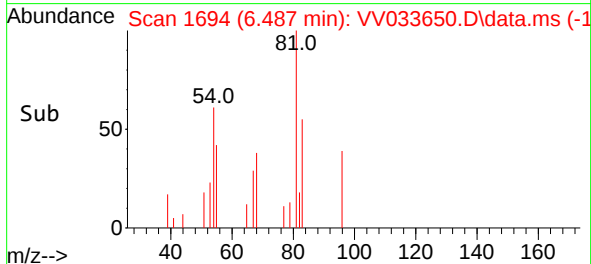
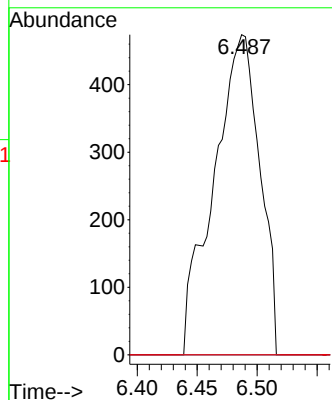
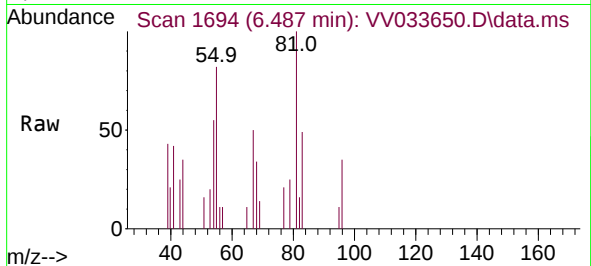




#38
Bromodichloromethane
Concen: 0.117 ug/L
RT: 6.487 min Scan# 1
Delta R.T. 0.055 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

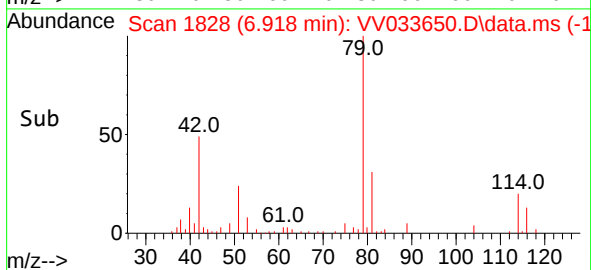
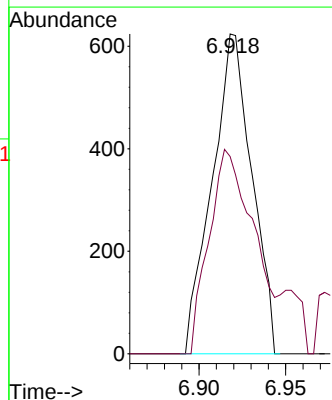
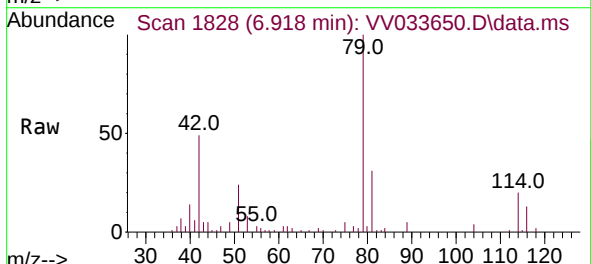
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ClientSampleId :

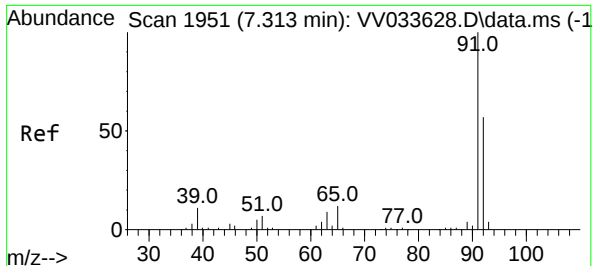
Tgt Ion: 83 Resp: 1267
Ion Ratio Lower Upper
83 100
85 0.0 45.1 83.9#
127 0.0 6.6 9.8#



#39
cis-1,3-Dichloropropene
Concen: 0.078 ug/L
RT: 6.918 min Scan# 1828
Delta R.T. -0.035 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

Tgt Ion: 75 Resp: 998
Ion Ratio Lower Upper
75 100
77 61.7 22.5 41.7#





#42

Toluene

Concen: 0.147 ug/L

RT: 7.323 min Scan# 1951

Delta R.T. 0.010 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

Instrument :

MSVOA_V

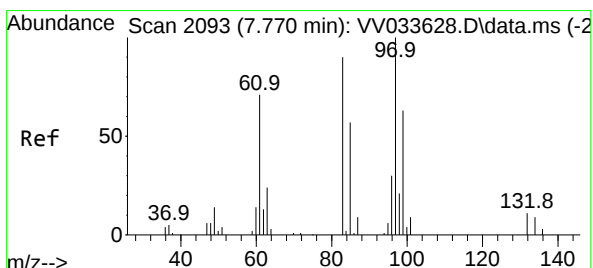
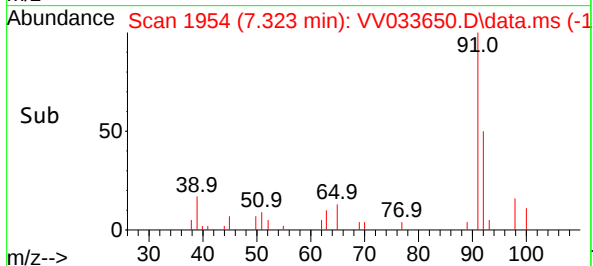
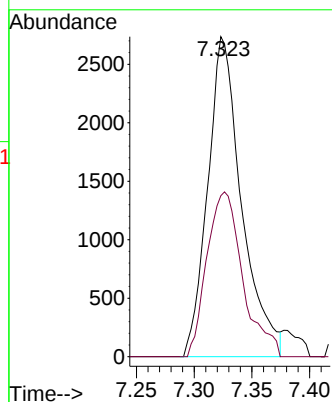
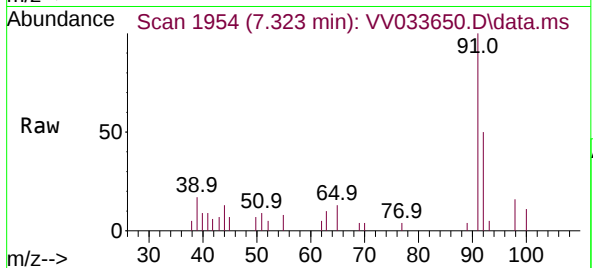
ClientSampleId :

Tgt Ion: 91 Resp: 5577

Ion Ratio Lower Upper

91 100

92 50.3 40.5 75.3



#45

1,1,2-Trichloroethane

Concen: 0.486 ug/L

RT: 7.715 min Scan# 2076

Delta R.T. -0.055 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

Tgt Ion: 97 Resp: 2408

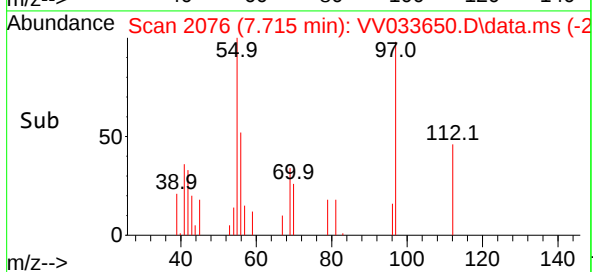
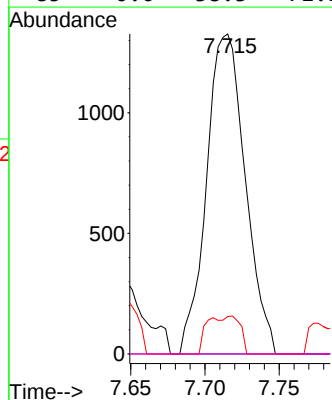
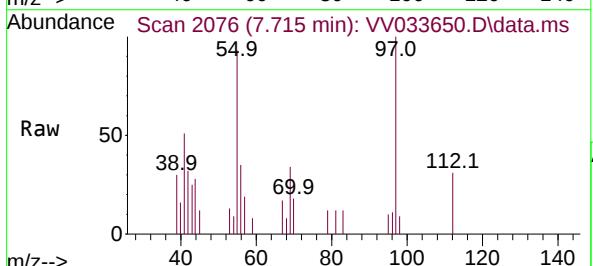
Ion Ratio Lower Upper

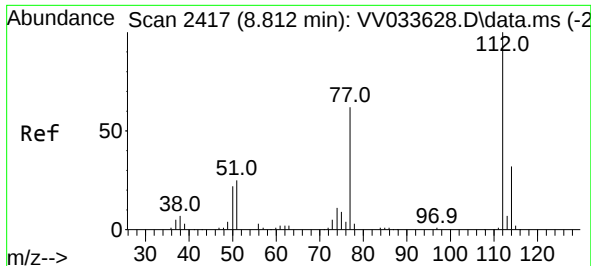
97 100

99 0.0 44.9 83.3#

83 11.7 60.5 112.3#

85 0.0 38.3 71.1#

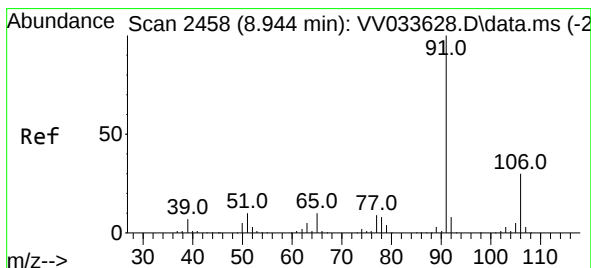
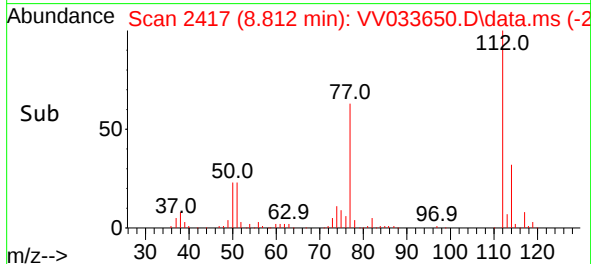
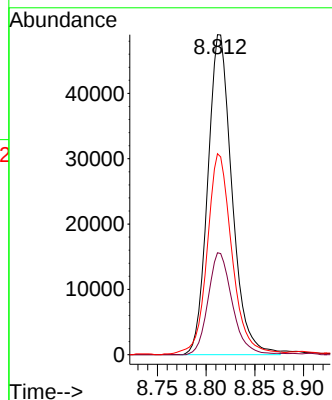
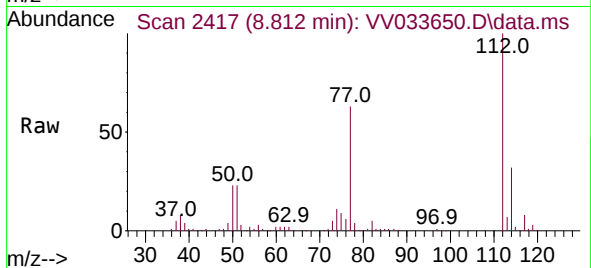




#51
Chlorobenzene
Concen: 3.647 ug/L
RT: 8.812 min Scan# 2417
Delta R.T. -0.000 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

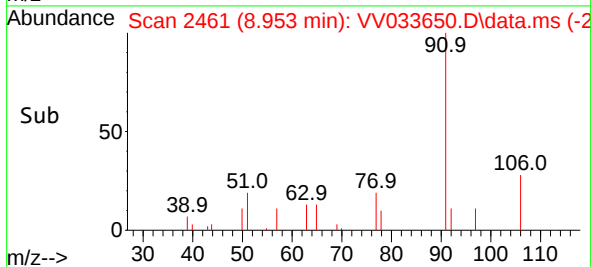
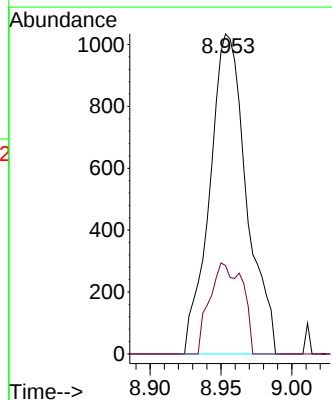
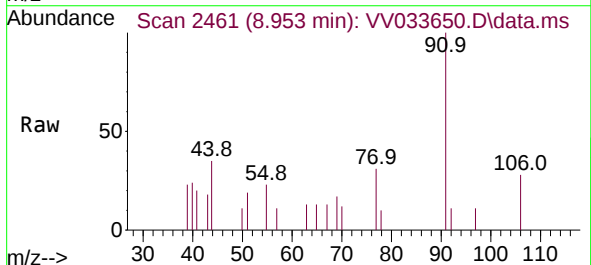
Instrument :
MSVOA_V
ClientSampleId :

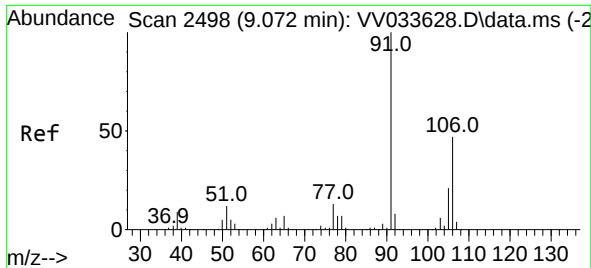
Tgt Ion:112 Resp: 84769
Ion Ratio Lower Upper
112 100
114 31.9 22.9 42.5
77 62.8 50.8 76.2



#52
Ethylbenzene
Concen: 0.043 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.010 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

Tgt Ion: 91 Resp: 1871
Ion Ratio Lower Upper
91 100
106 27.7 20.6 38.4

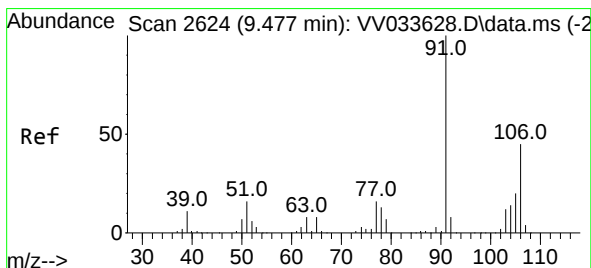
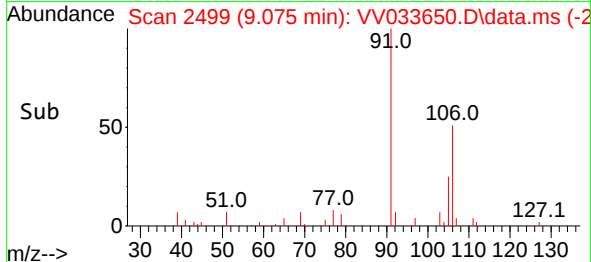
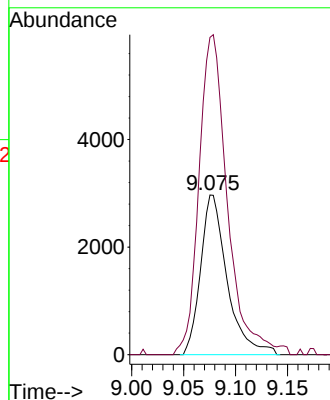
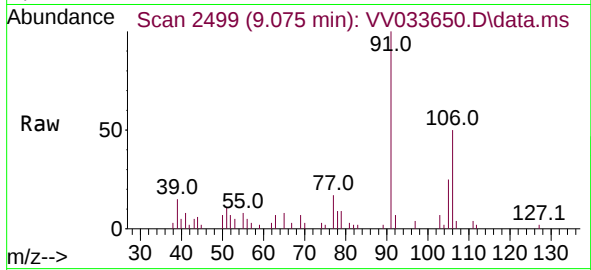




#53
m,p-Xylene
Concen: 0.325 ug/L
RT: 9.075 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

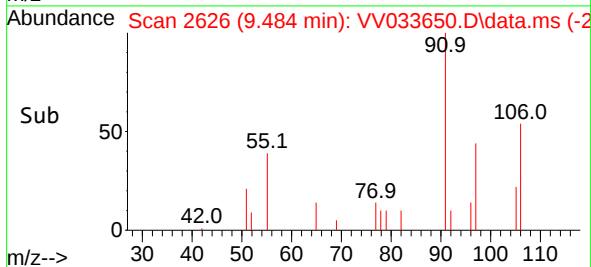
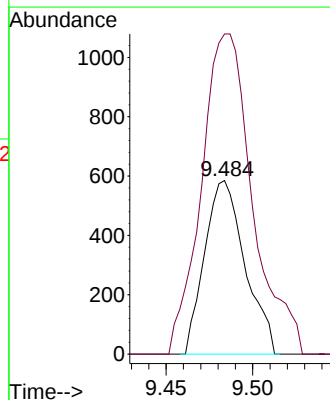
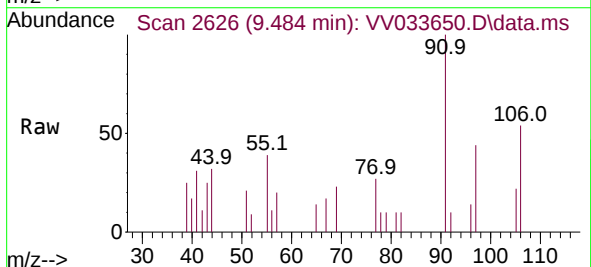
Instrument :
MSVOA_V
ClientSampleId :

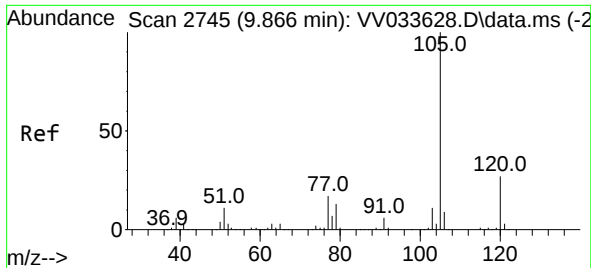
Tgt Ion:106 Resp: 5265
Ion Ratio Lower Upper
106 100
91 198.8 146.2 271.4



#54
o-Xylene
Concen: 0.060 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.006 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

Tgt Ion:106 Resp: 947
Ion Ratio Lower Upper
106 100
91 184.4 156.0 289.6

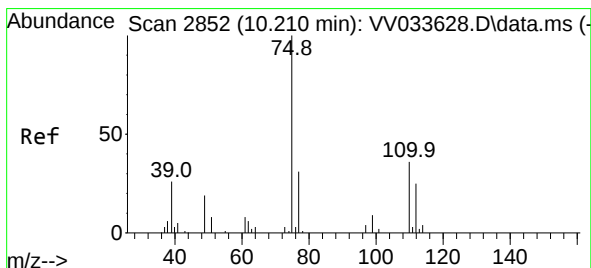
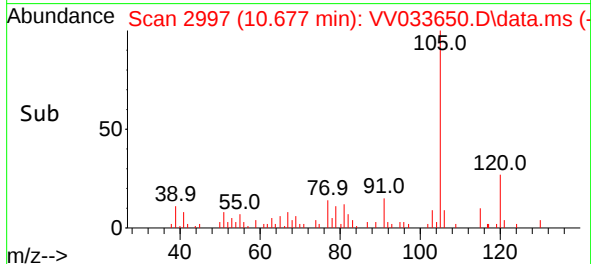
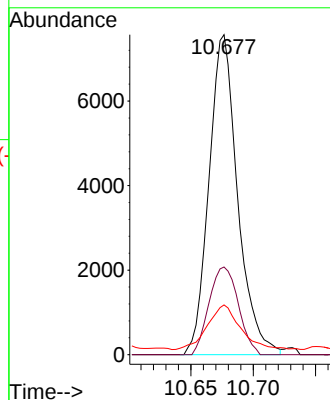
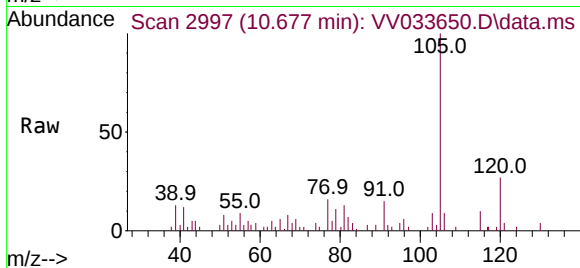




#60
Isopropylbenzene
Concen: 0.291 ug/L
RT: 10.677 min Scan# 21
Delta R.T. 0.810 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

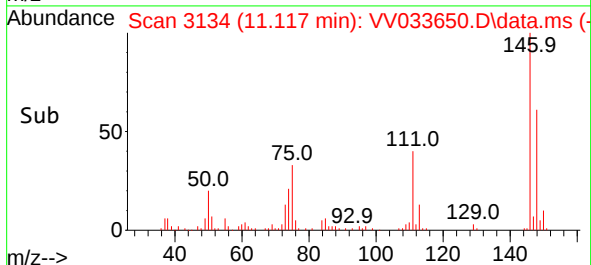
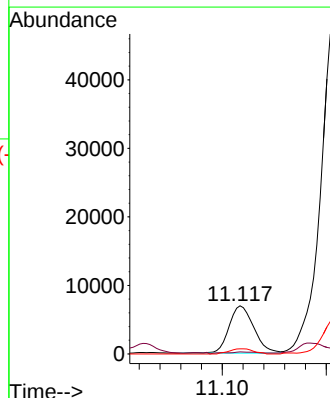
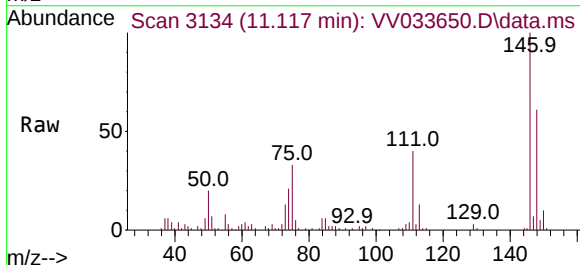
Instrument :
MSVOA_V
ClientSampleId :

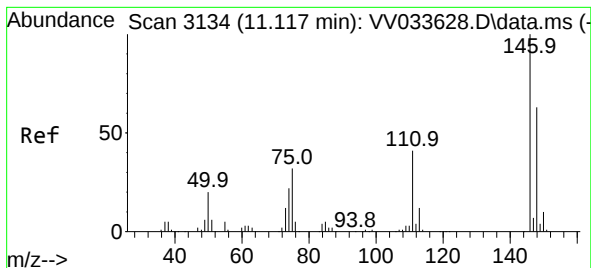
Tgt Ion:105 Resp: 12105
Ion Ratio Lower Upper
105 100
120 27.9 21.0 31.6
77 16.1 13.4 20.0



#61
1,2,3-Trichloropropane
Concen: 2.725 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. 0.907 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

Tgt Ion: 75 Resp: 11469
Ion Ratio Lower Upper
75 100
77 20.5 24.7 37.1#
110 10.5 28.0 42.0#





#64

1,3-Dichlorobenzene

Concen: 1.867 ug/L

RT: 11.117 min Scan# 3134

Delta R.T. -0.000 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

Instrument :

MSVOA_V

ClientSampleId :

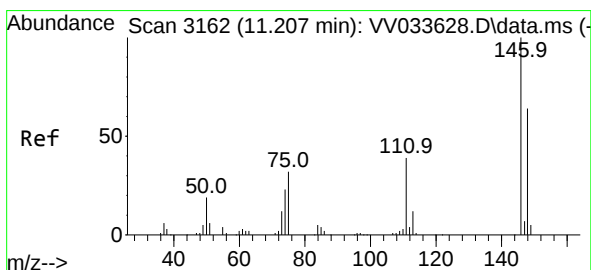
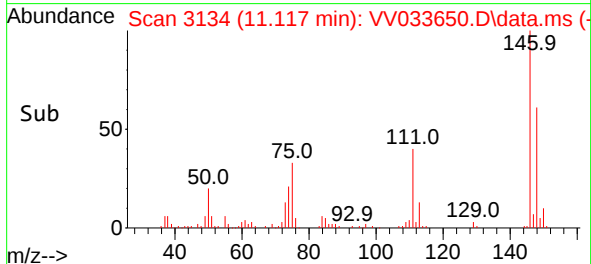
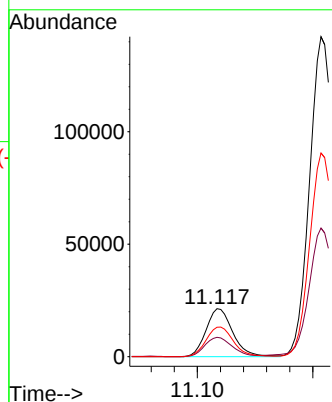
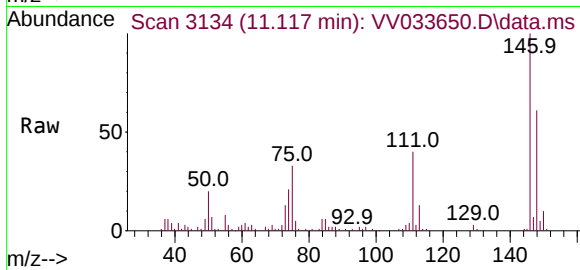
Tgt Ion:146 Resp: 34303

Ion Ratio Lower Upper

146 100

111 40.3 29.2 54.2

148 61.4 44.1 81.9



#65

1,4-Dichlorobenzene

Concen: 12.153 ug/L

RT: 11.207 min Scan# 3162

Delta R.T. -0.000 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

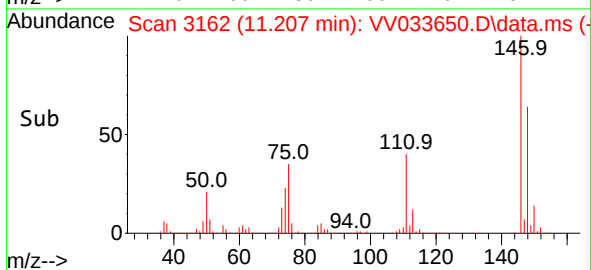
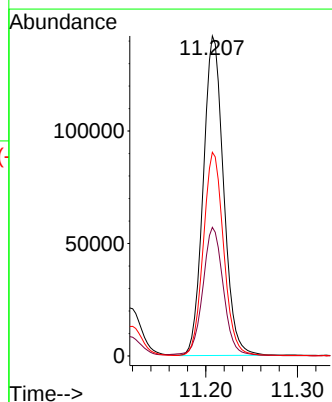
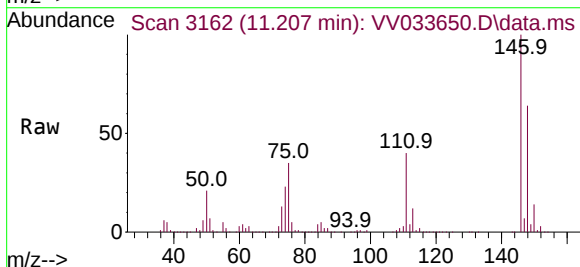
Tgt Ion:146 Resp: 218618

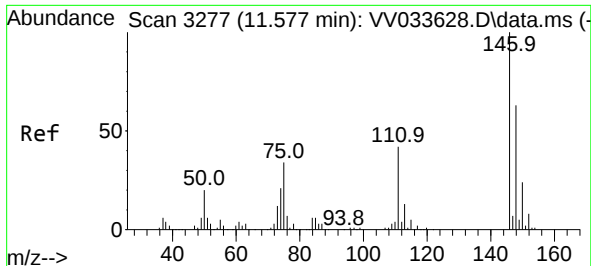
Ion Ratio Lower Upper

146 100

111 40.2 27.5 51.1

148 63.7 43.3 80.5





#67

1,2-Dichlorobenzene

Concen: 4.023 ug/L

RT: 11.580 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

Instrument :

MSVOA_V

ClientSampleId :

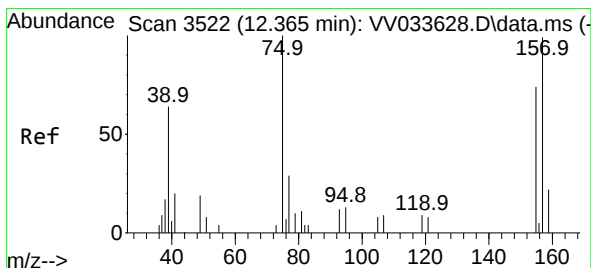
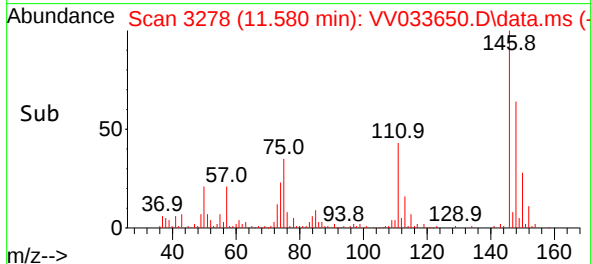
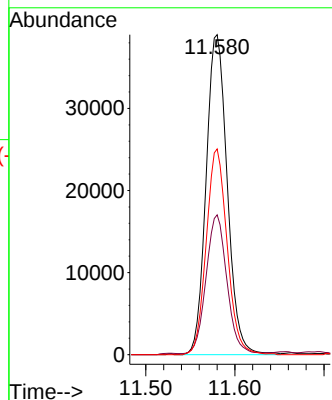
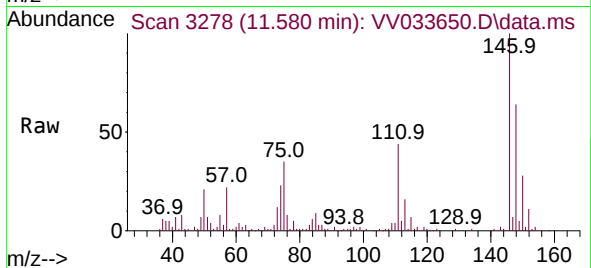
Tgt Ion:146 Resp: 64232

Ion Ratio Lower Upper

146 100

111 43.7 36.1 54.1

148 64.3 52.2 78.2



#68

1,2-Dibromo-3-chloropropane

Concen: 0.690 ug/L

RT: 12.368 min Scan# 3523

Delta R.T. 0.003 min

Lab File: VV033650.D

Acq: 15 Jan 2024 18:09

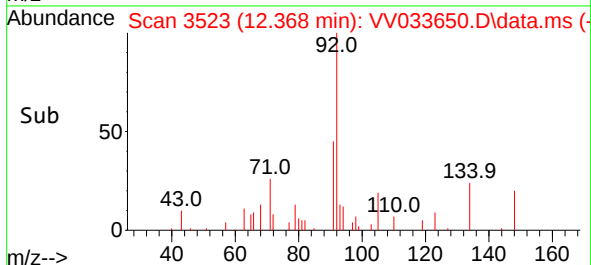
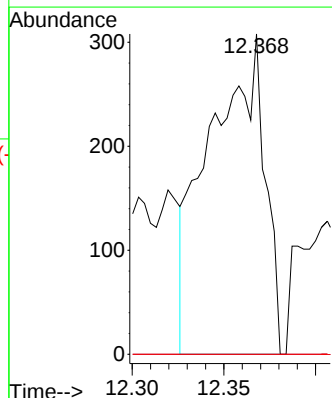
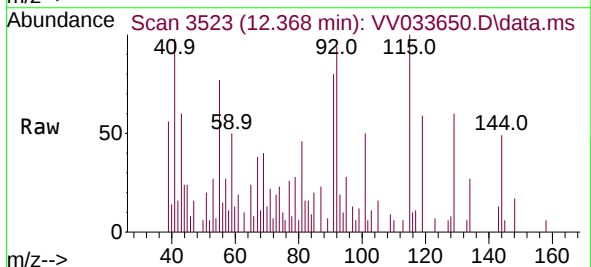
Tgt Ion: 75 Resp: 638

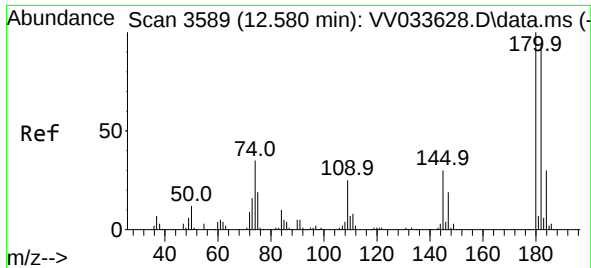
Ion Ratio Lower Upper

75 100

155 0.0 65.3 97.9#

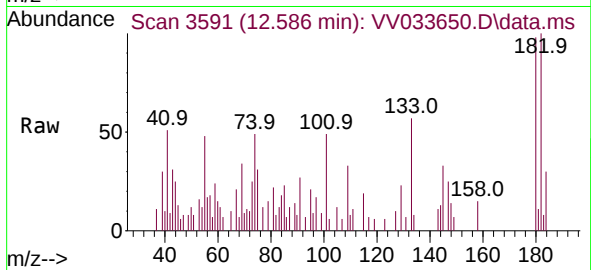
157 0.0 75.4 113.0#





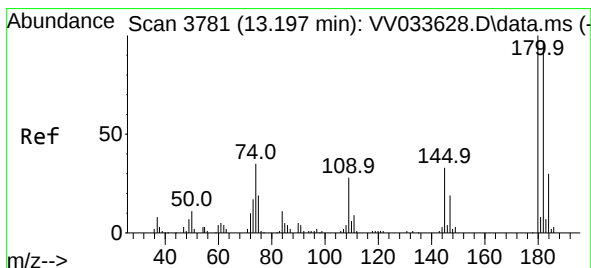
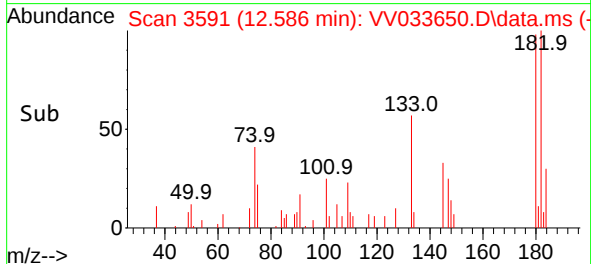
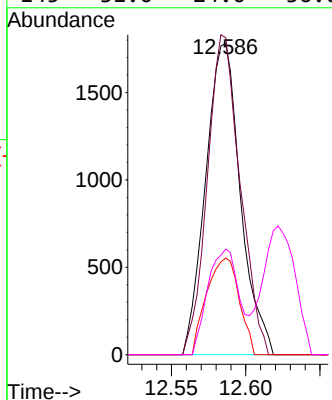
#69
 1,3,5-Trichlorobenzene
 Concen: 0.203 ug/L
 RT: 12.586 min Scan# 3591
 Delta R.T. 0.006 min
 Lab File: VV033650.D
 Acq: 15 Jan 2024 18:09

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:180 Resp: 2902

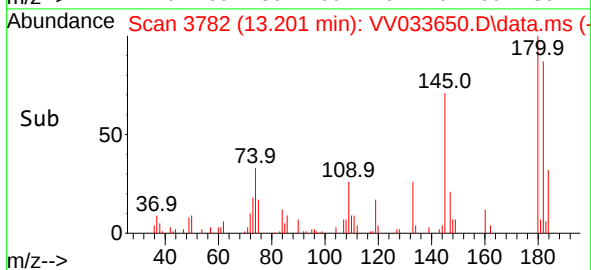
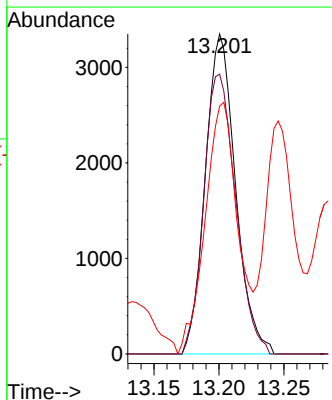
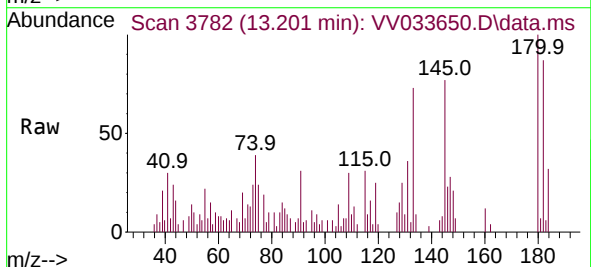
Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.4	114.6
184	28.9	24.2	36.2
145	31.0	24.0	36.0

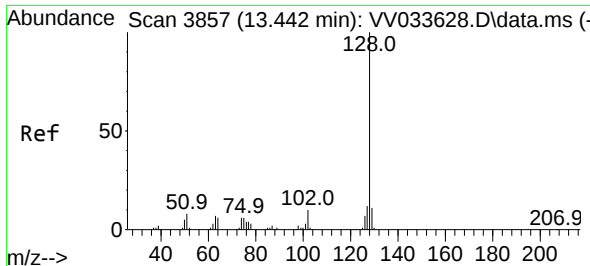


#70
 1,2,4-trichlorobenzene
 Concen: 0.456 ug/L
 RT: 13.201 min Scan# 3782
 Delta R.T. 0.003 min
 Lab File: VV033650.D
 Acq: 15 Jan 2024 18:09

Tgt Ion:180 Resp: 5417

Ion	Ratio	Lower	Upper
180	100		
182	92.6	75.0	112.6
145	84.4	24.8	37.2

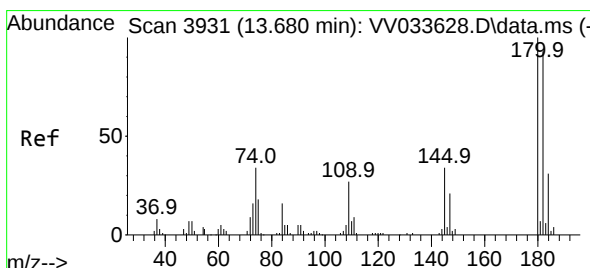
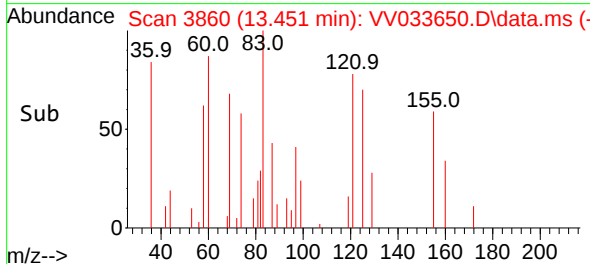
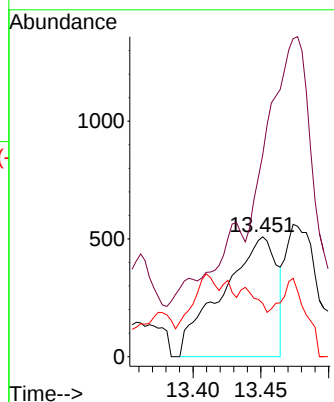
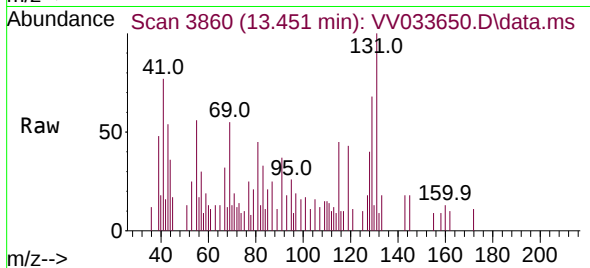




#71
Naphthalene
Concen: 0.071 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.010 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:128 Resp: 1412
Ion Ratio Lower Upper
128 100
129 18.4 8.8 13.2#
127 6.6 10.4 15.6#



#72
1,2,3-Trichlorobenzene
Concen: 0.083 ug/L
RT: 13.676 min Scan# 3930
Delta R.T. -0.003 min
Lab File: VV033650.D
Acq: 15 Jan 2024 18:09

Tgt Ion:180 Resp: 791
Ion Ratio Lower Upper
180 100
182 79.6 75.0 112.6
145 219.1 26.6 40.0#

