

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW011524\
 Data File : VW033647.D
 Acq On : 15 Jan 2024 16:58
 Operator : SY/MD
 Sample : P1131-15
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 16 03:47:04 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	5.548	114	110270	5.000	ug/L	0.01
28) Chlorobenzene-d5	8.796	117	98811	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	49746	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	23132	3.836	ug/L	0.02
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.800%
7) Chloroethane-d5	1.555	69	23000	4.301	ug/L	0.02
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.000%
11) 1,1-Dichloroethene-d2	2.072	65	11064	4.072	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.400%
20) 2-Butanone-d5	3.902	46	64524	43.766	ug/L	0.08
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.540%
24) Chloroform-d	4.265	84	54412	4.173	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.400%
26) 1,2-Dichloroethane-d4	4.960	65	27979	4.785	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.800%
32) Benzene-d6	4.969	84	111307	4.669	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.400%
36) 1,2-Dichloropropane-d6	6.014	67	37200	4.680	ug/L	0.03
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.600%
41) Toluene-d8	7.262	98	98489	4.627	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.600%
43) trans-1,3-Dichloroprop...	7.577	79	11053	4.022	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.400%
46) 2-Hexanone-d5	8.050	63	55347	51.299	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.600%
56) 1,1,2,2-Tetrachloroeth...	10.159	84	22316	4.805	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.000%
66) 1,2-Dichlorobenzene-d4	11.561	152	36523	4.782	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.304	62	25914	2.259	ug/L	95
8) Chloroethane	1.622	64	91987	13.204	ug/L #	52
15) Methyl Acetate	2.388	43	1020	0.357	ug/L #	56
18) trans-1,2-Dichloroethene	2.709	96	5873	0.669	ug/L	99
19) 1,1-Dichloroethane	3.130	63	54042	3.098	ug/L	97
22) cis-1,2-Dichloroethene	3.825	96	287370	31.256	ug/L	96
27) 1,2-Dichloroethane	5.066	62	10502	1.151	ug/L	99
30) Cyclohexane	4.577	56	4990	0.297	ug/L	93
33) Benzene	5.021	78	67740	1.931	ug/L	100
34) Trichloroethene	5.850	95	3088	0.331	ug/L	95
35) Methylcyclohexane	6.063	83	4541	0.287	ug/L	87
37) 1,2-Dichloropropane	6.130	63	1788	0.205	ug/L #	1
39) cis-1,3-Dichloropropene	6.944	75	1154	0.093	ug/L #	60
42) Toluene	7.346	91	5032	0.136	ug/L	100
45) 1,1,2-Trichloroethane	7.728	97	800	0.165	ug/L #	29
48) 2-Hexanone	8.050	43	8331	2.840	ug/L #	67
51) Chlorobenzene	8.825	112	72775	3.202	ug/L	99
52) Ethylbenzene	8.963	91	3631	0.084	ug/L	99
53) m,p-Xylene	9.085	106	2071	0.131	ug/L	90

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QLast Update : Tue Jan 16 03:40:53 2024
Response via : Initial Calibration

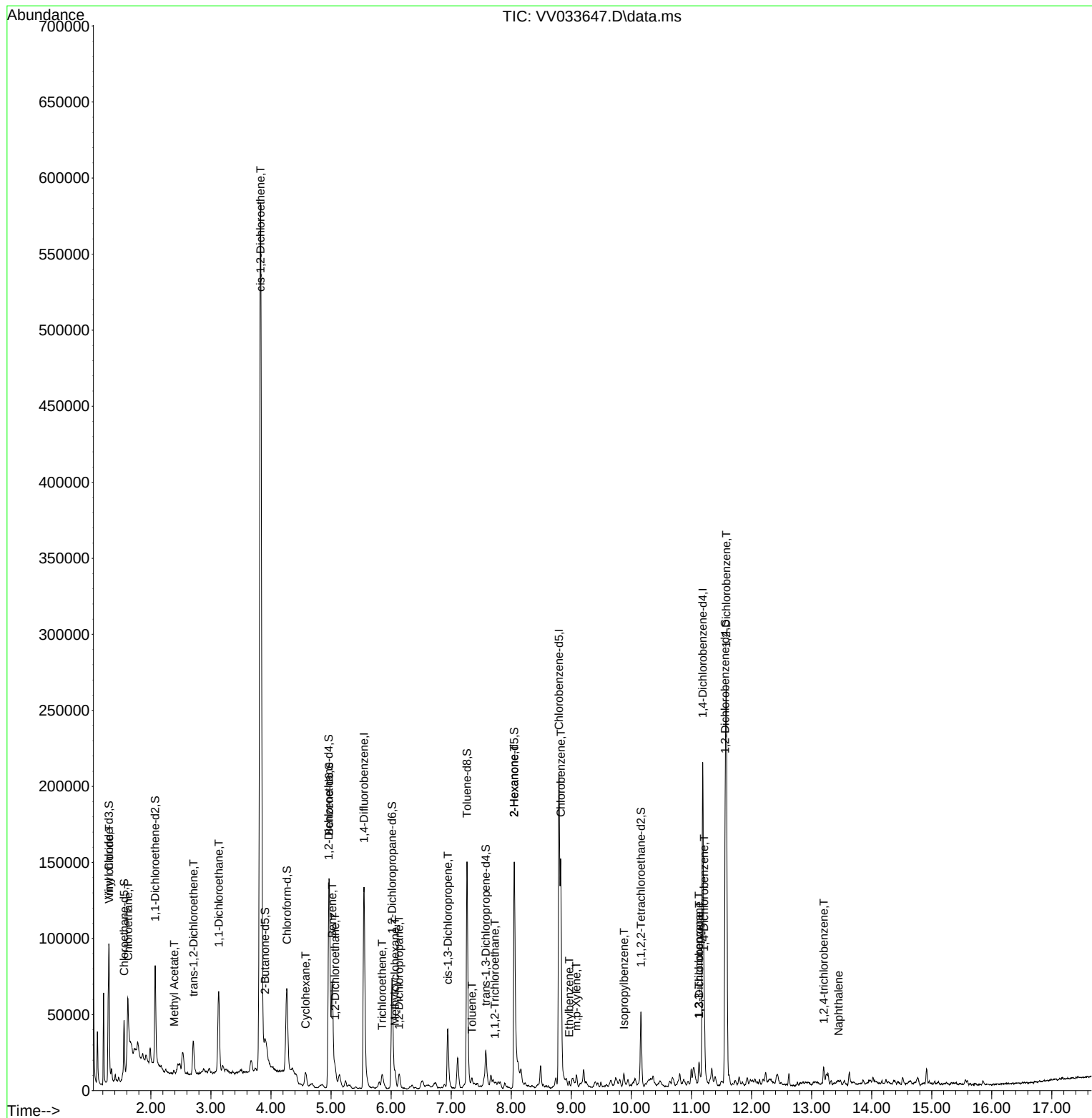
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
60) Isopropylbenzene	9.876	105	5178	0.132	ug/L #	84
61) 1,2,3-Trichloropropane	11.124	75	2013	0.505	ug/L #	49
64) 1,3-Dichlorobenzene	11.127	146	5270	0.303	ug/L	97
65) 1,4-Dichlorobenzene	11.214	146	17489	1.026	ug/L	95
67) 1,2-Dichlorobenzene	11.580	146	74793	4.944	ug/L	99
70) 1,2,4-trichlorobenzene	13.204	180	2779	0.247	ug/L #	83
71) Naphthalene	13.451	128	1270	0.068	ug/L #	75

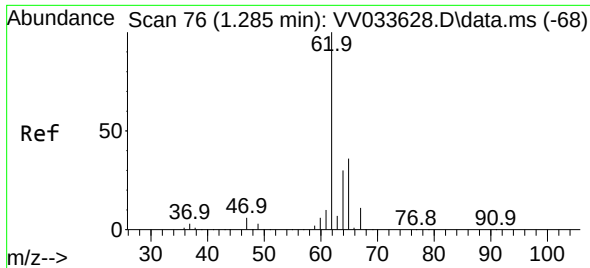
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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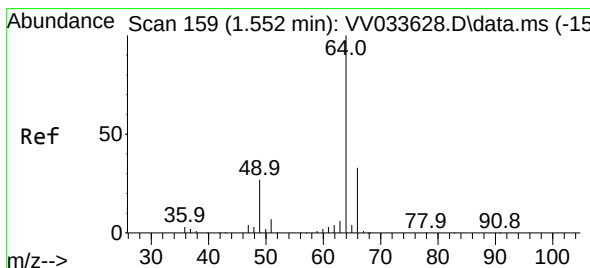
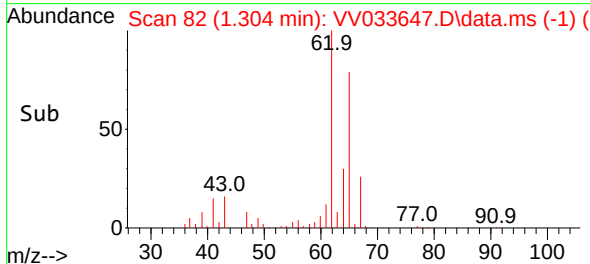
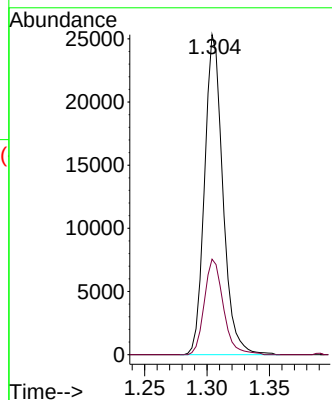
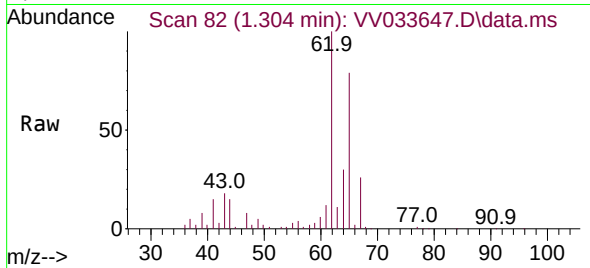




#5
 Vinyl chloride
 Concen: 2.259 ug/L
 RT: 1.304 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VV033647.D
 Acq: 15 Jan 2024 16:58

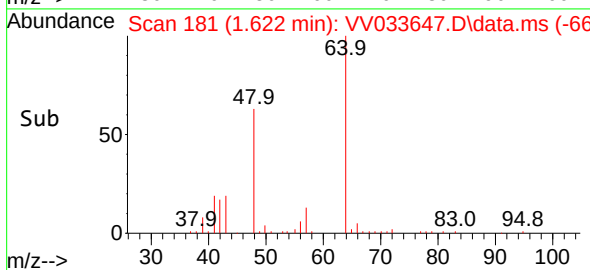
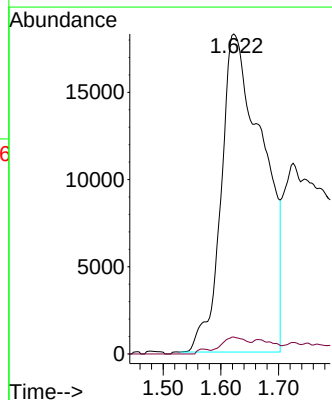
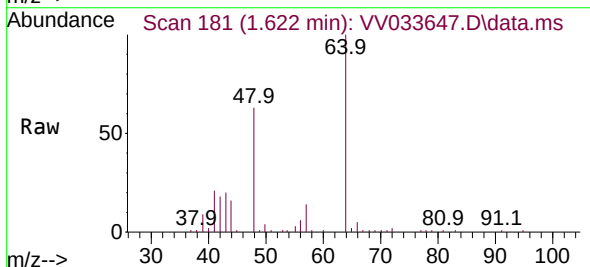
Instrument :
 MSVOA_V
 ClientSampleId :

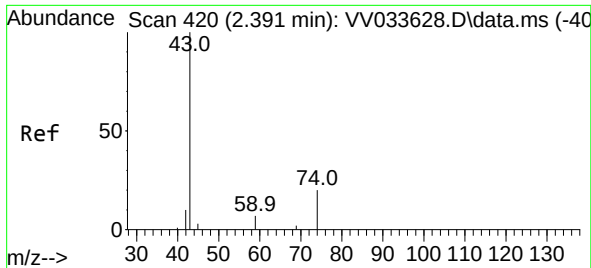
Tgt Ion: 62 Resp: 25914
 Ion Ratio Lower Upper
 62 100
 64 29.8 23.0 42.8



#8
 Chloroethane
 Concen: 13.204 ug/L
 RT: 1.622 min Scan# 181
 Delta R.T. 0.071 min
 Lab File: VV033647.D
 Acq: 15 Jan 2024 16:58

Tgt Ion: 64 Resp: 91987
 Ion Ratio Lower Upper
 64 100
 66 5.3 22.6 42.0#

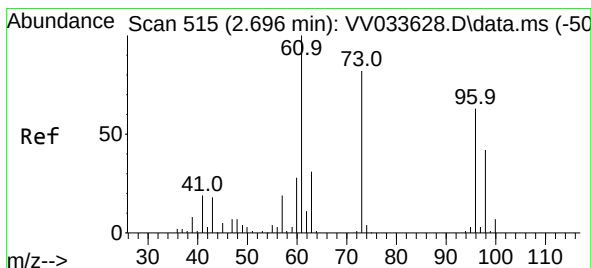
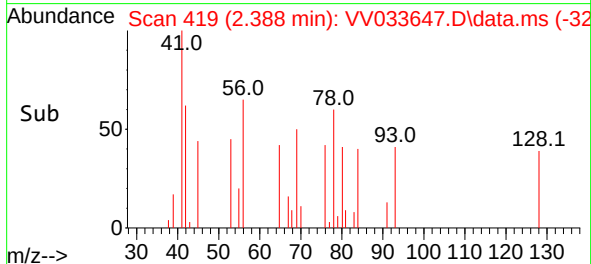
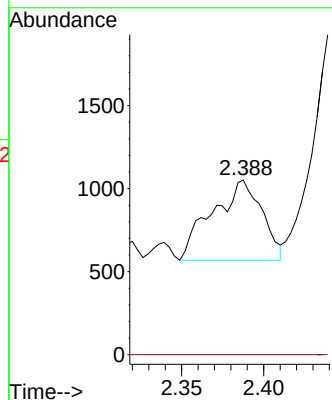
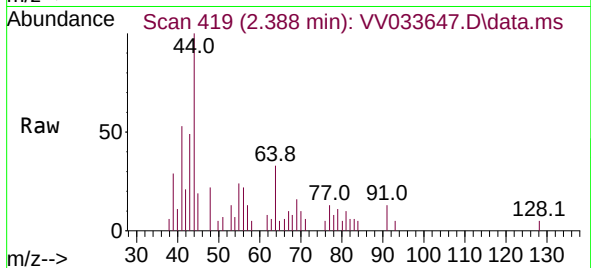




#15
Methyl Acetate
Concen: 0.357 ug/L
RT: 2.388 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

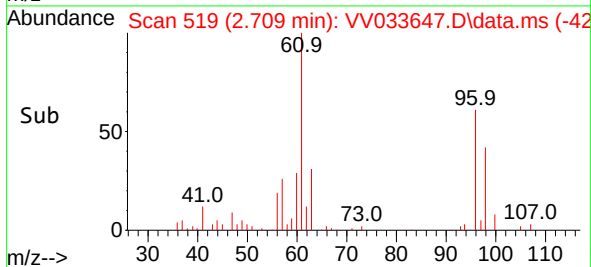
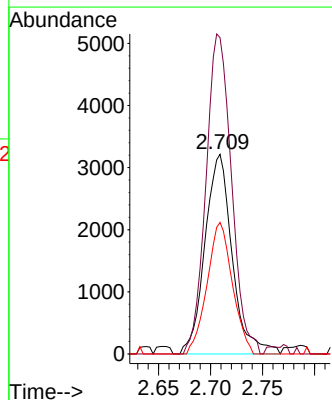
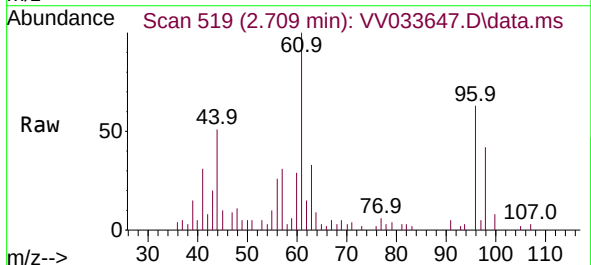
Instrument :
MSVOA_V
ClientSampleId :

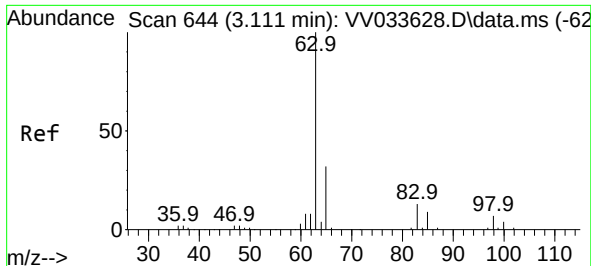
Tgt Ion: 43 Resp: 1020
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#18
trans-1,2-Dichloroethene
Concen: 0.669 ug/L
RT: 2.709 min Scan# 519
Delta R.T. 0.013 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

Tgt Ion: 96 Resp: 5873
Ion Ratio Lower Upper
96 100
61 158.4 110.4 205.0
98 65.9 44.1 81.9





#19

1,1-Dichloroethane

Concen: 3.098 ug/L

RT: 3.130 min Scan# 61

Delta R.T. 0.019 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

Instrument :

MSVOA_V

ClientSampleId :

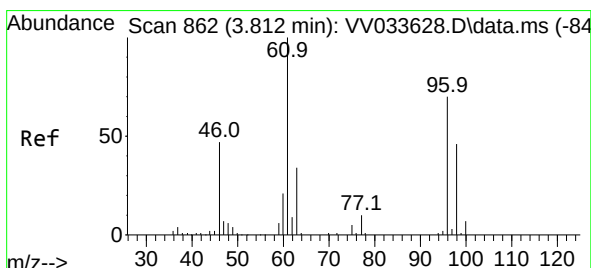
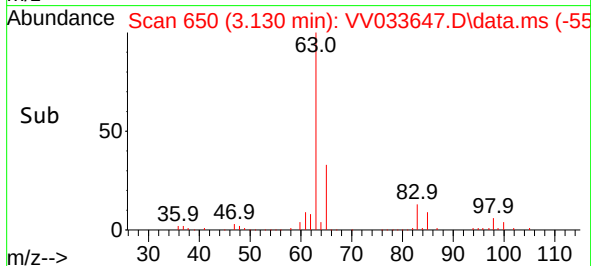
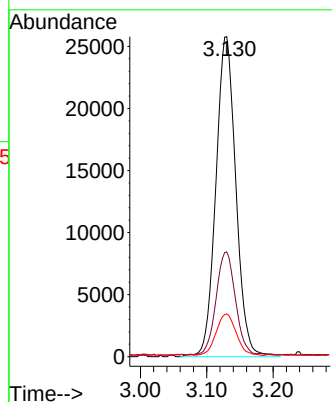
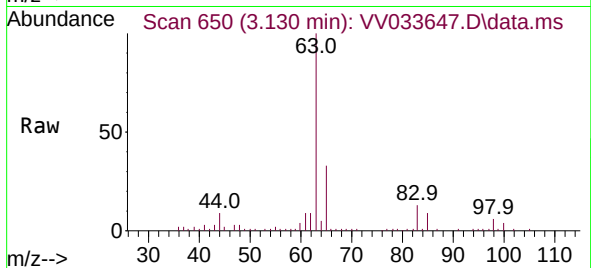
Tgt Ion: 63 Resp: 54042

Ion Ratio Lower Upper

63 100

65 32.7 21.6 40.2

83 13.4 9.1 16.9



#22

cis-1,2-Dichloroethene

Concen: 31.256 ug/L

RT: 3.825 min Scan# 866

Delta R.T. 0.013 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

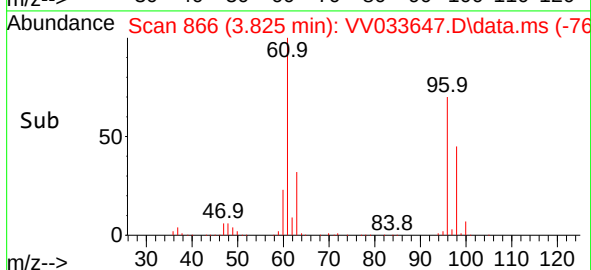
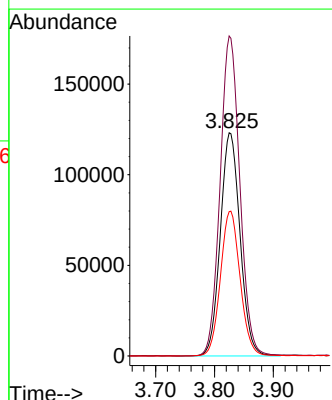
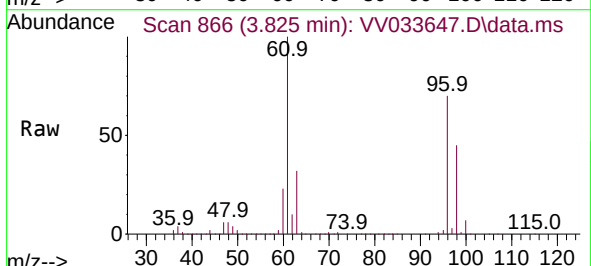
Tgt Ion: 96 Resp: 287370

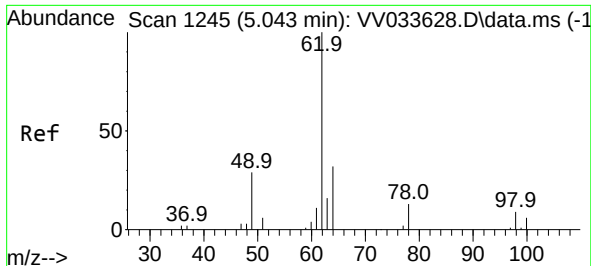
Ion Ratio Lower Upper

96 100

61 143.4 97.1 180.3

98 64.7 42.6 79.0





#27

1,2-Dichloroethane

Concen: 1.151 ug/L

RT: 5.066 min Scan# 1100

Delta R.T. 0.022 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

Instrument :

MSVOA_V

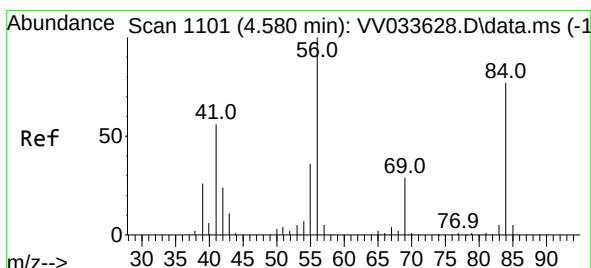
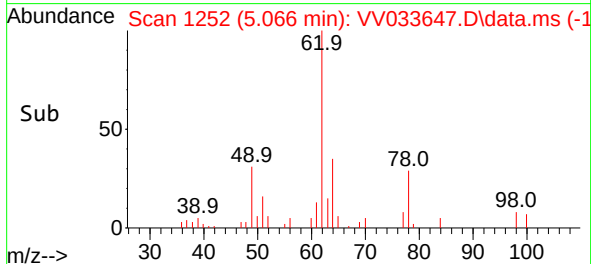
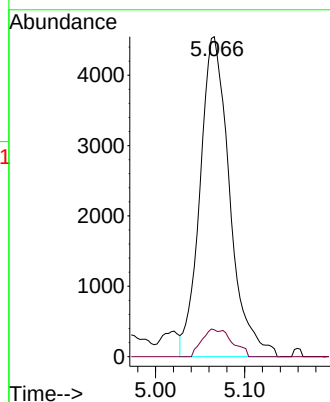
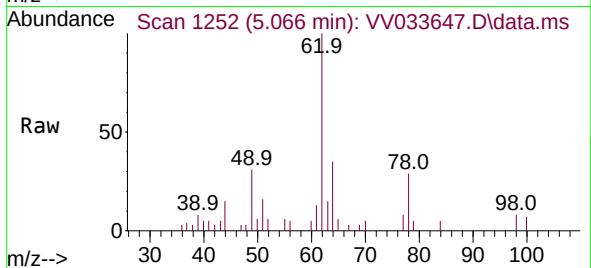
ClientSampleId :

Tgt Ion: 62 Resp: 10502

Ion Ratio Lower Upper

62 100

98 8.4 7.0 10.6



#30

Cyclohexane

Concen: 0.297 ug/L

RT: 4.577 min Scan# 1100

Delta R.T. -0.003 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

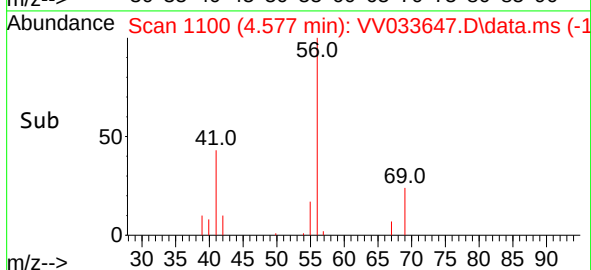
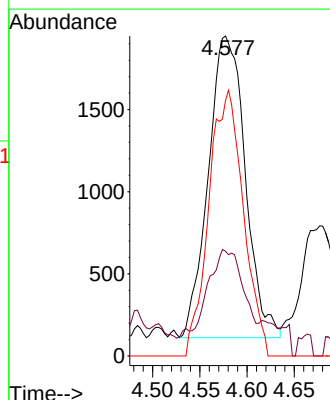
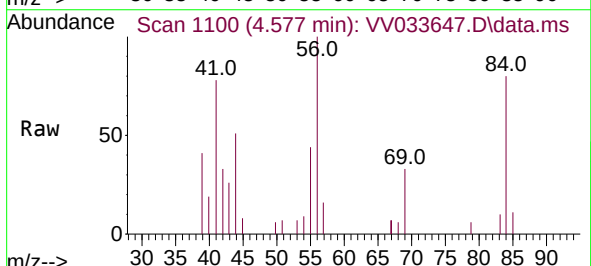
Tgt Ion: 56 Resp: 4990

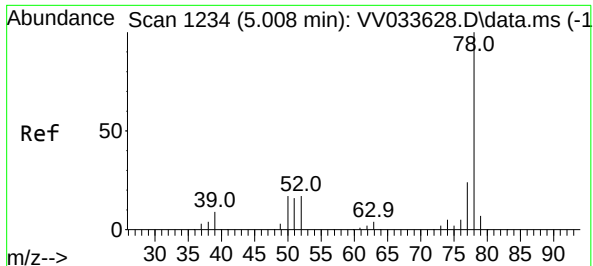
Ion Ratio Lower Upper

56 100

69 23.3 23.3 34.9

84 82.2 61.7 92.5

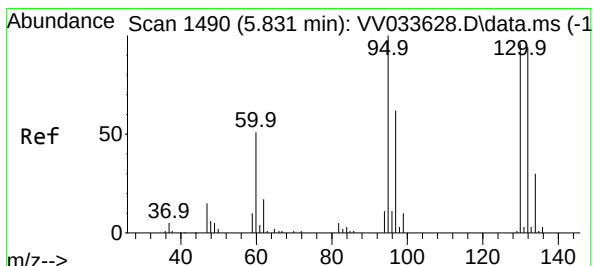
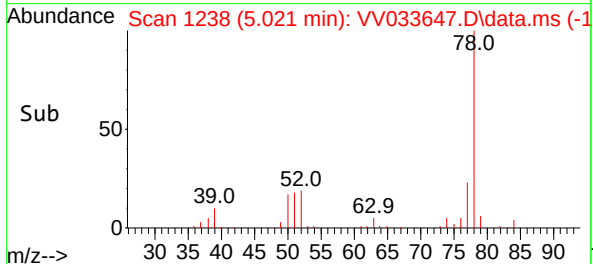
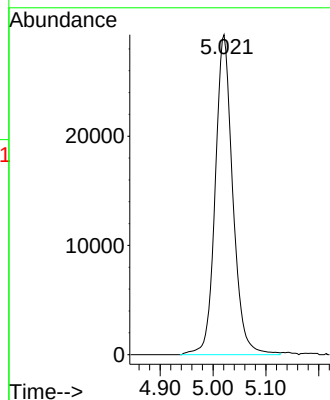
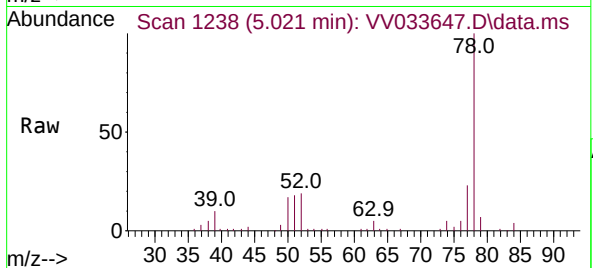




#33
Benzene
Concen: 1.931 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.013 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

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ClientSampleId :

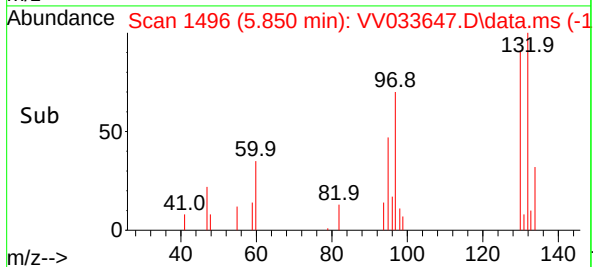
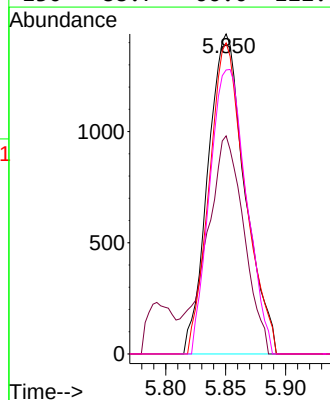
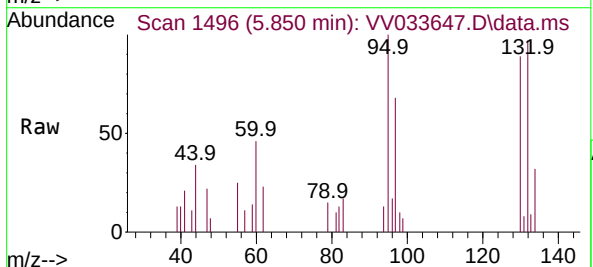
Tgt Ion: 78 Resp: 67740

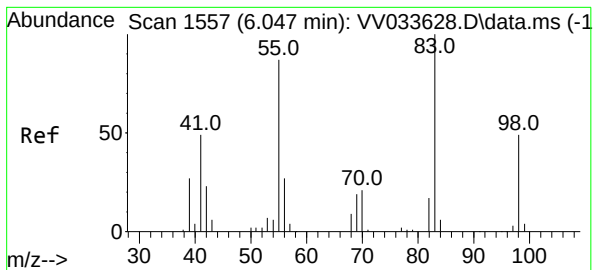


#34
Trichloroethene
Concen: 0.331 ug/L
RT: 5.850 min Scan# 1496
Delta R.T. 0.019 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

Tgt Ion: 95 Resp: 3088

Ion	Ratio	Lower	Upper
95	100		
97	68.2	45.1	83.9
132	97.2	65.2	121.2
130	88.7	66.0	122.6





#35

Methylcyclohexane

Concen: 0.287 ug/L

RT: 6.063 min Scan# 1

Delta R.T. 0.016 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

Instrument :

MSVOA_V

ClientSampleId :

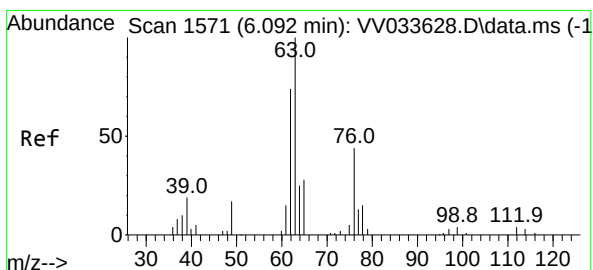
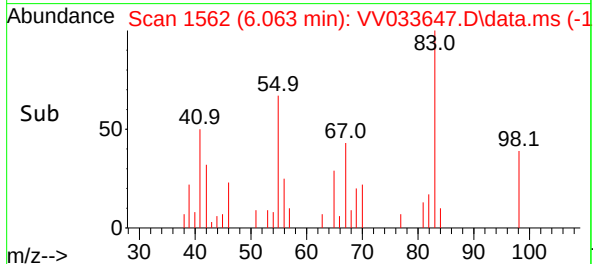
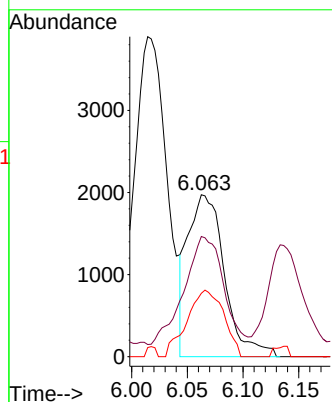
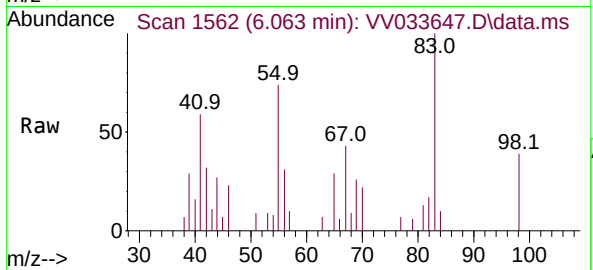
Tgt Ion: 83 Resp: 4541

Ion Ratio Lower Upper

83 100

55 72.6 68.7 103.1

98 40.9 38.3 57.5



#37

1,2-Dichloropropane

Concen: 0.205 ug/L

RT: 6.130 min Scan# 1583

Delta R.T. 0.039 min

Lab File: VV033647.D

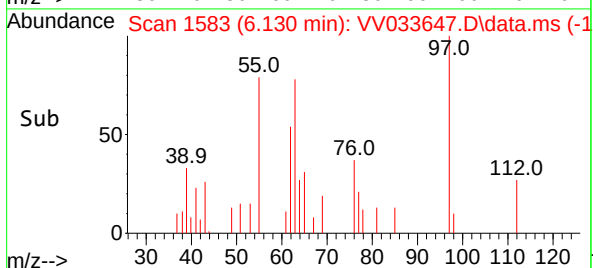
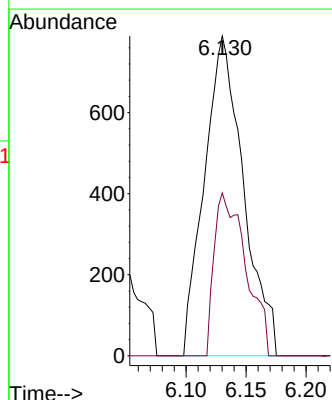
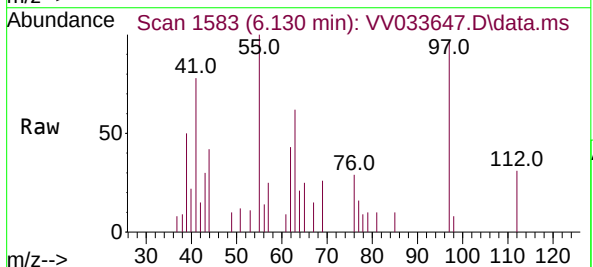
Acq: 15 Jan 2024 16:58

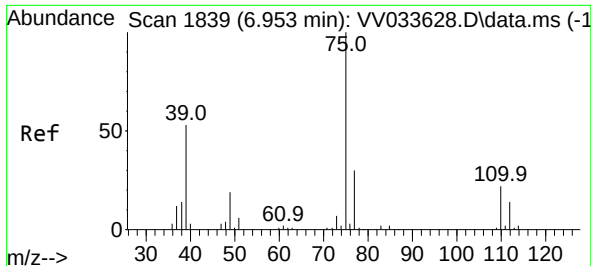
Tgt Ion: 63 Resp: 1788

Ion Ratio Lower Upper

63 100

112 41.3 3.4 5.2#





#39

cis-1,3-Dichloropropene

Concen: 0.093 ug/L

RT: 6.944 min Scan# 1154

Delta R.T. -0.010 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

Instrument :

MSVOA_V

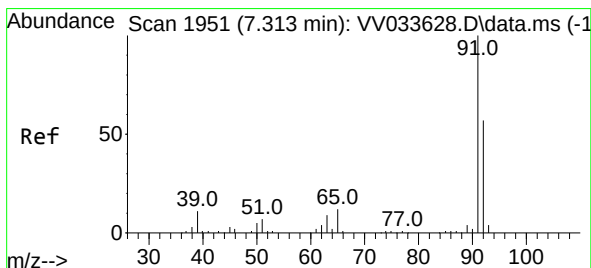
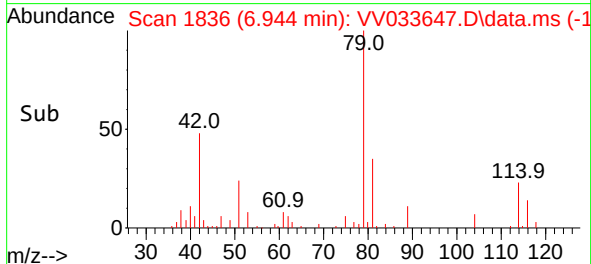
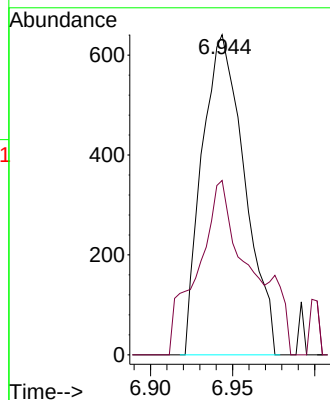
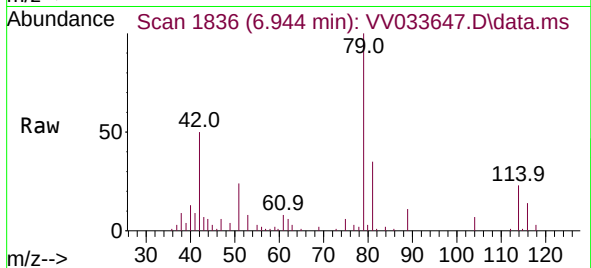
ClientSampleId :

Tgt Ion: 75 Resp: 1154

Ion Ratio Lower Upper

75 100

77 54.4 22.5 41.7#



#42

Toluene

Concen: 0.136 ug/L

RT: 7.346 min Scan# 1961

Delta R.T. 0.032 min

Lab File: VV033647.D

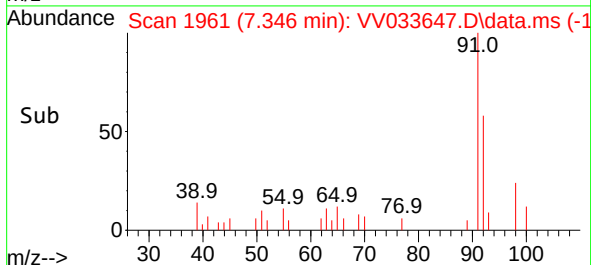
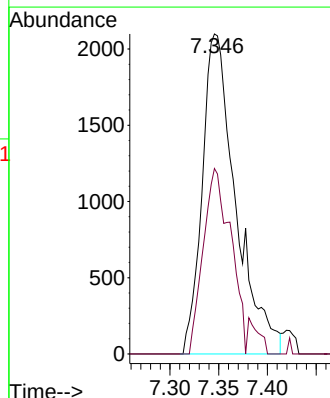
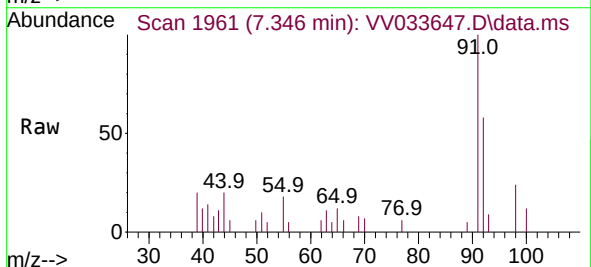
Acq: 15 Jan 2024 16:58

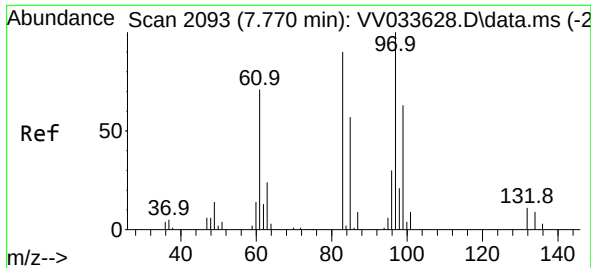
Tgt Ion: 91 Resp: 5032

Ion Ratio Lower Upper

91 100

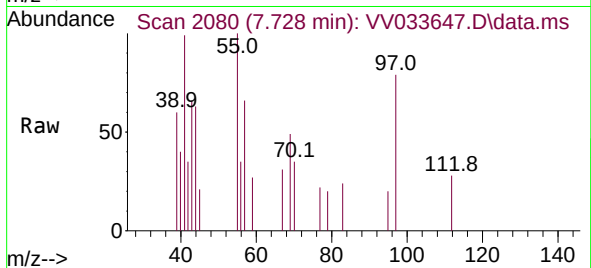
92 57.9 40.5 75.3



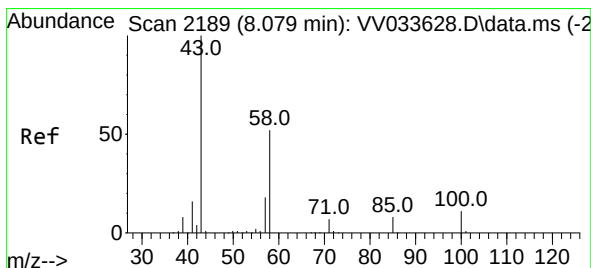
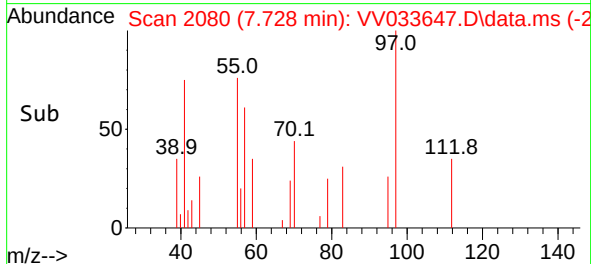
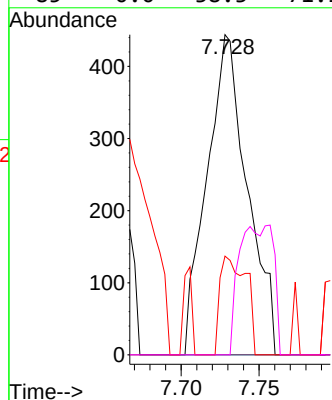


#45
1,1,2-Trichloroethane
Concen: 0.165 ug/L
RT: 7.728 min Scan# 2093
Delta R.T. -0.042 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

Instrument :
MSVOA_V
ClientSampleId :

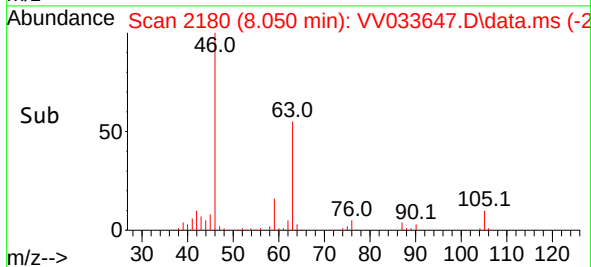
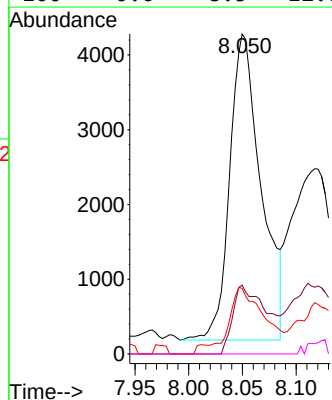
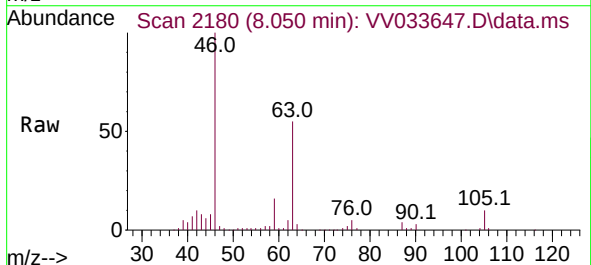


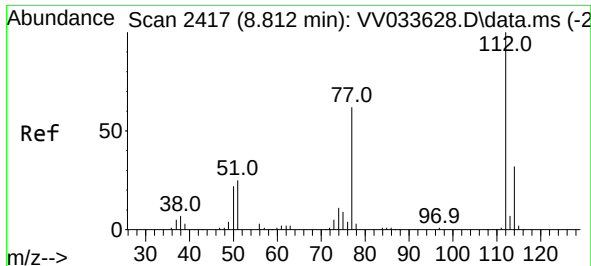
Tgt Ion:	97	Resp:	800
Ion	Ratio	Lower	Upper
97	100		
99	0.0	44.9	83.3#
83	30.9	60.5	112.3#
85	0.0	38.3	71.1#



#48
2-Hexanone
Concen: 2.840 ug/L
RT: 8.050 min Scan# 2180
Delta R.T. -0.029 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

Tgt Ion:	43	Resp:	8331
Ion	Ratio	Lower	Upper
43	100		
58	24.3	40.6	61.0#
57	25.4	13.8	20.8#
100	0.0	8.5	12.7#

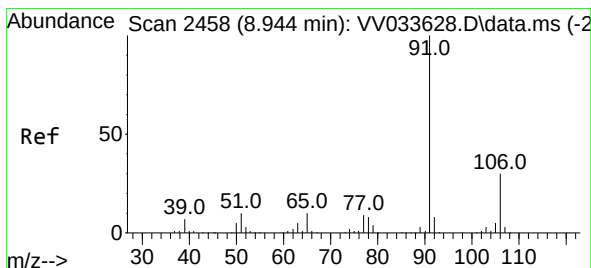
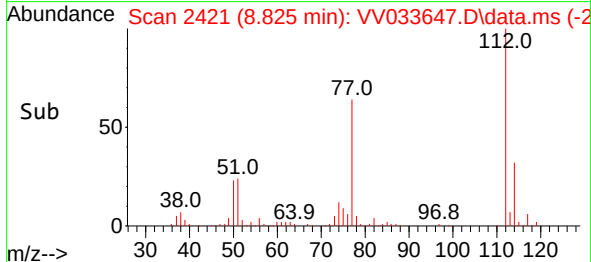
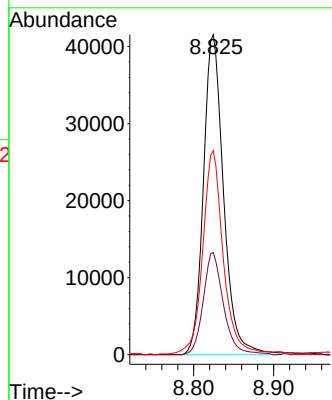
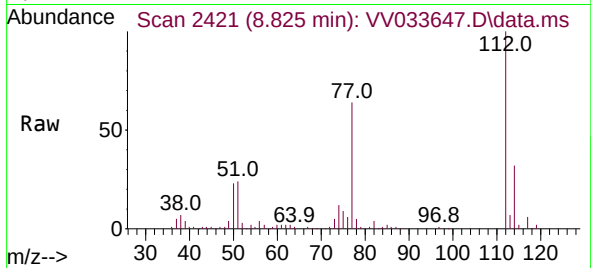




#51
Chlorobenzene
Concen: 3.202 ug/L
RT: 8.825 min Scan# 2417
Delta R.T. 0.013 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

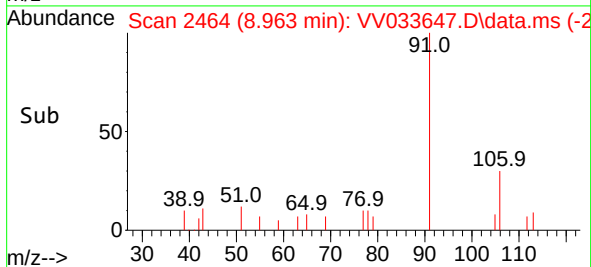
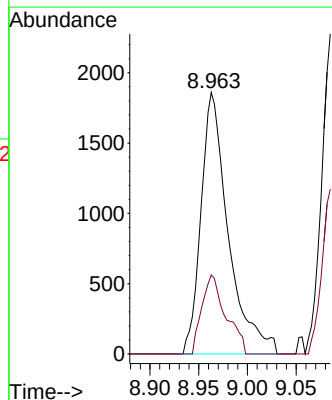
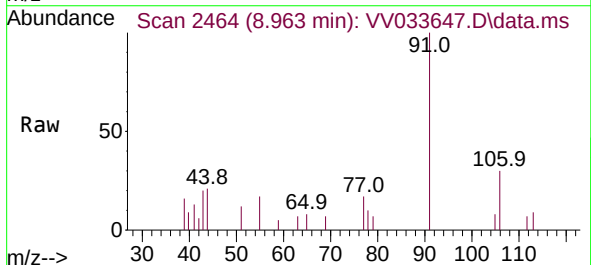
Instrument :
MSVOA_V
ClientSampleId :

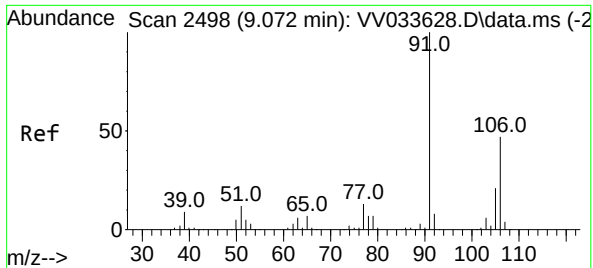
Tgt Ion:112 Resp: 72775
Ion Ratio Lower Upper
112 100
114 31.9 22.9 42.5
77 63.7 50.8 76.2



#52
Ethylbenzene
Concen: 0.084 ug/L
RT: 8.963 min Scan# 2464
Delta R.T. 0.019 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

Tgt Ion: 91 Resp: 3631
Ion Ratio Lower Upper
91 100
106 30.2 20.6 38.4

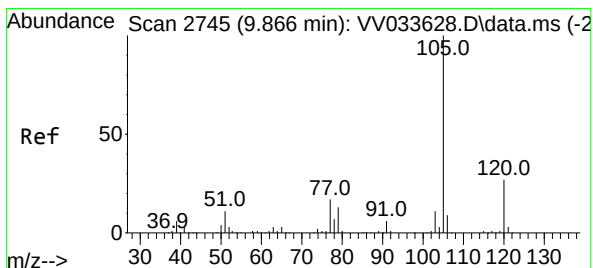
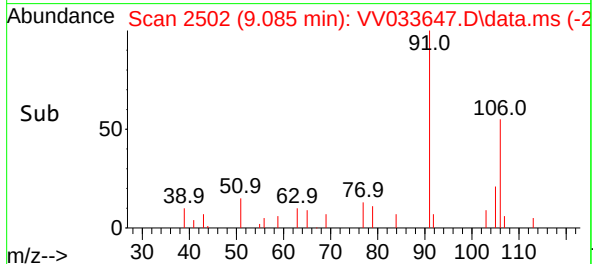
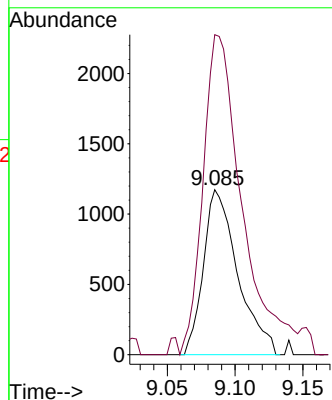
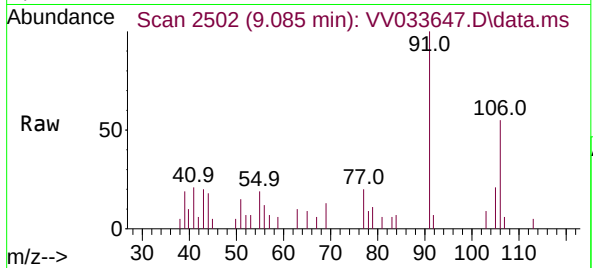




#53
 m,p-Xylene
 Concen: 0.131 ug/L
 RT: 9.085 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VV033647.D
 Acq: 15 Jan 2024 16:58

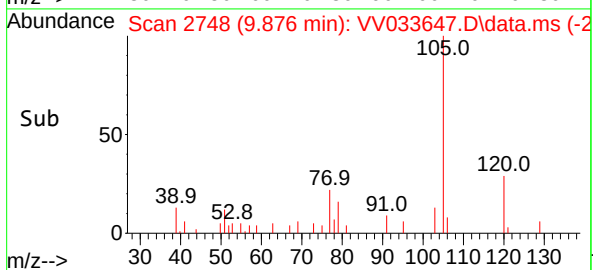
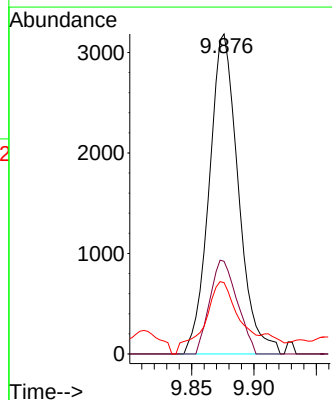
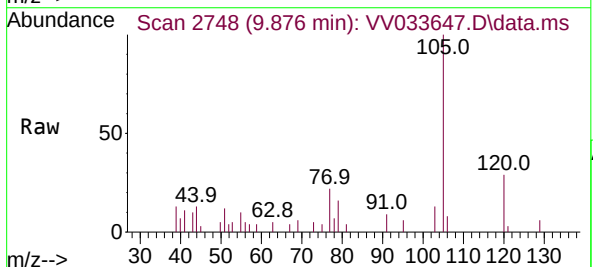
Instrument :
 MSVOA_V
 ClientSampleId :

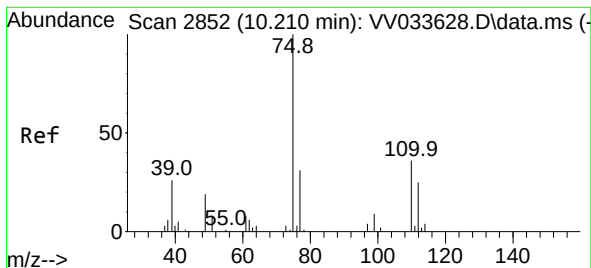
Tgt Ion:106 Resp: 2071
 Ion Ratio Lower Upper
 106 100
 91 193.9 146.2 271.4



#60
 Isopropylbenzene
 Concen: 0.132 ug/L
 RT: 9.876 min Scan# 2748
 Delta R.T. 0.010 min
 Lab File: VV033647.D
 Acq: 15 Jan 2024 16:58

Tgt Ion:105 Resp: 5178
 Ion Ratio Lower Upper
 105 100
 120 27.4 21.0 31.6
 77 0.0 13.4 20.0#





#61

1,2,3-Trichloropropane

Concen: 0.505 ug/L

RT: 11.124 min Scan# 3136

Delta R.T. 0.913 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

Instrument :

MSVOA_V

ClientSampleId :

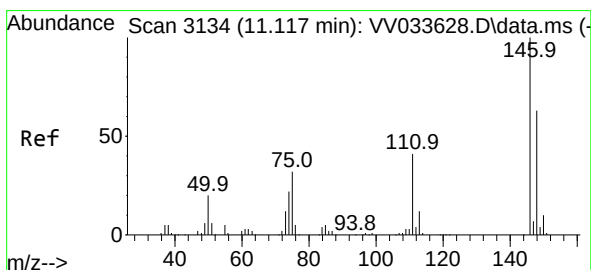
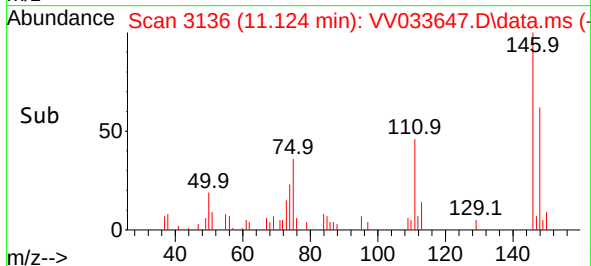
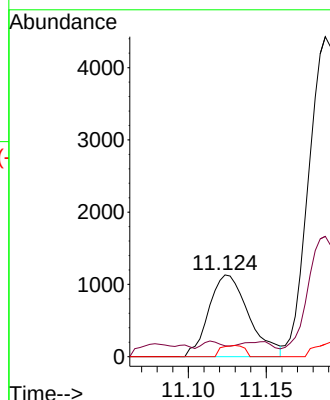
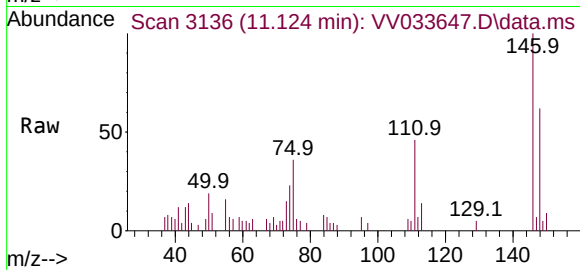
Tgt Ion: 75 Resp: 2013

Ion Ratio Lower Upper

75 100

77 0.0 24.7 37.1#

110 7.9 28.0 42.0#



#64

1,3-Dichlorobenzene

Concen: 0.303 ug/L

RT: 11.127 min Scan# 3137

Delta R.T. 0.010 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

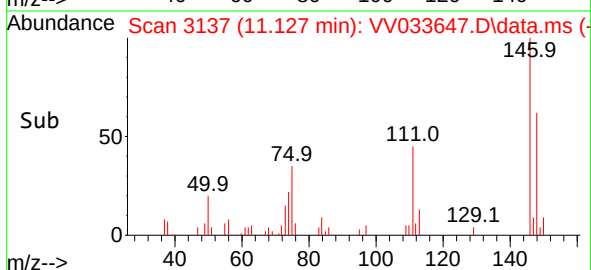
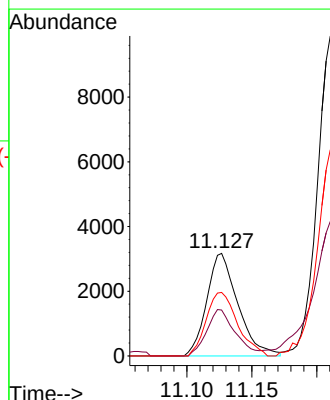
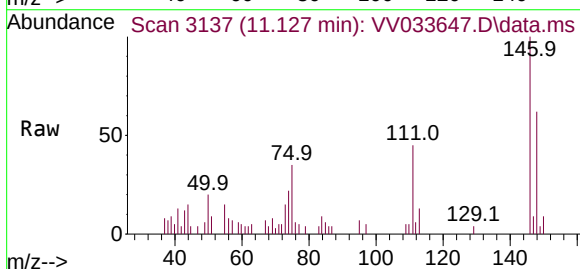
Tgt Ion:146 Resp: 5270

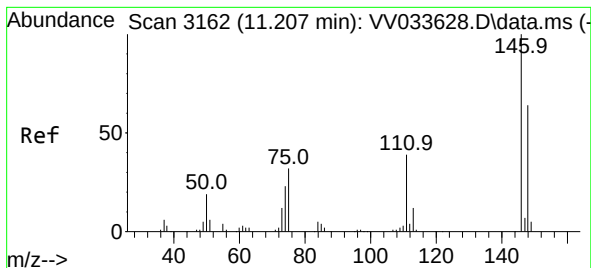
Ion Ratio Lower Upper

146 100

111 44.8 29.2 54.2

148 61.8 44.1 81.9





#65

1,4-Dichlorobenzene

Concen: 1.026 ug/L

RT: 11.214 min Scan# 3162

Delta R.T. 0.006 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

Instrument :

MSVOA_V

ClientSampleId :

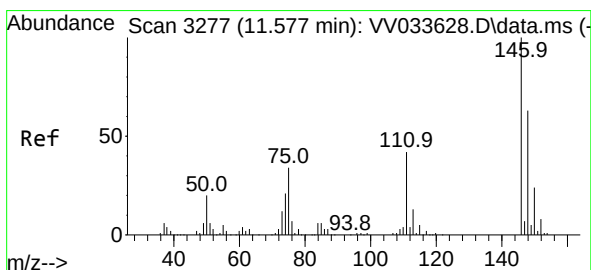
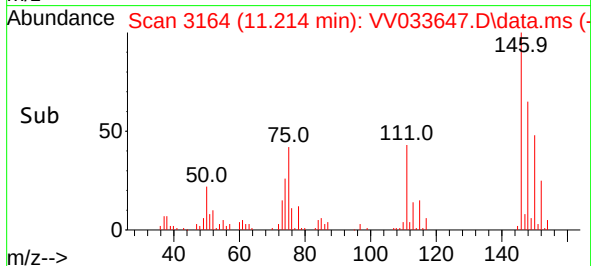
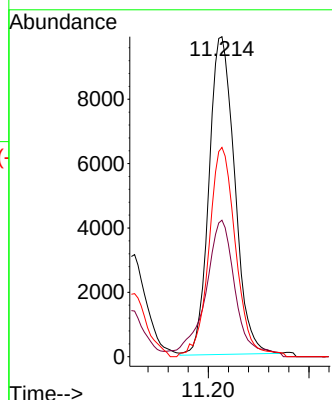
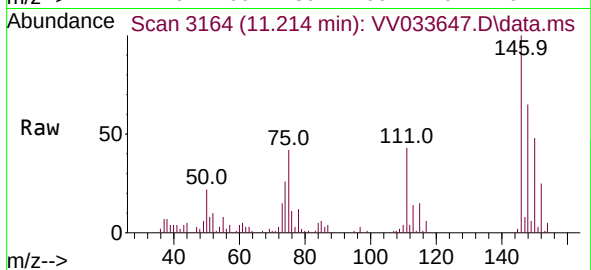
Tgt Ion:146 Resp: 17489

Ion Ratio Lower Upper

146 100

111 42.7 27.5 51.1

148 65.4 43.3 80.5



#67

1,2-Dichlorobenzene

Concen: 4.944 ug/L

RT: 11.580 min Scan# 3278

Delta R.T. 0.003 min

Lab File: VV033647.D

Acq: 15 Jan 2024 16:58

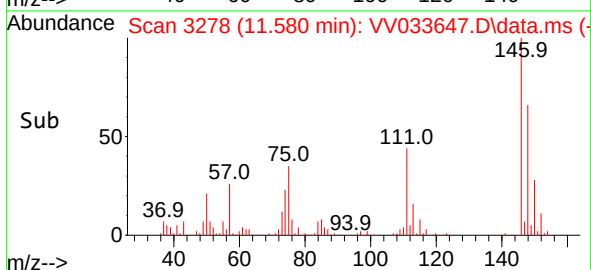
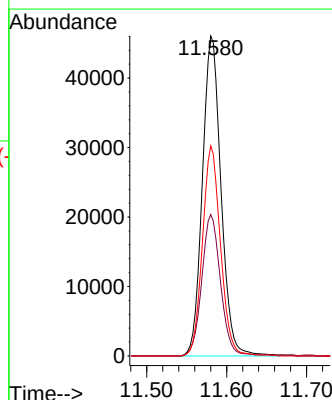
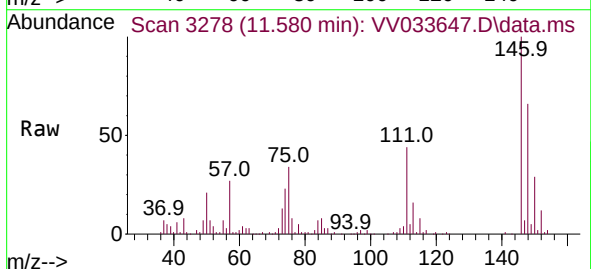
Tgt Ion:146 Resp: 74793

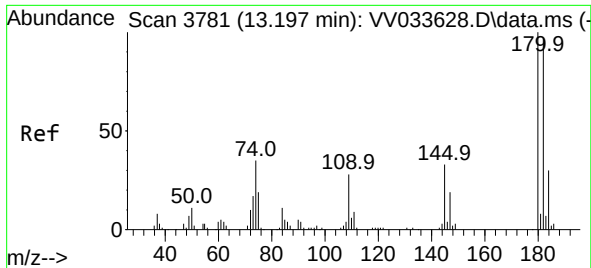
Ion Ratio Lower Upper

146 100

111 44.2 36.1 54.1

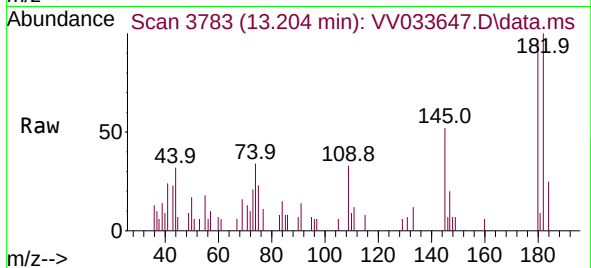
148 65.6 52.2 78.2



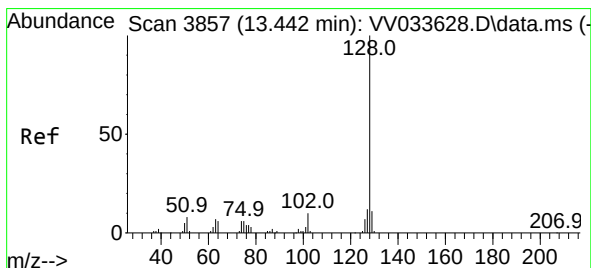
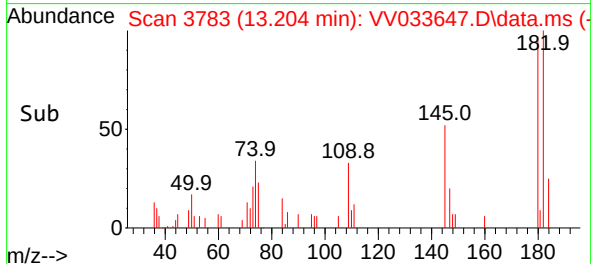
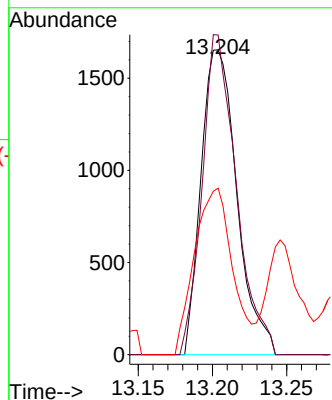


#70
1,2,4-trichlorobenzene
Concen: 0.247 ug/L
RT: 13.204 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:180 Resp: 2779
Ion Ratio Lower Upper
180 100
182 99.9 75.0 112.6
145 57.8 24.8 37.2#



#71
Naphthalene
Concen: 0.068 ug/L
RT: 13.451 min Scan# 3860
Delta R.T. 0.010 min
Lab File: VV033647.D
Acq: 15 Jan 2024 16:58

Tgt Ion:128 Resp: 1270
Ion Ratio Lower Upper
128 100
129 3.5 8.8 13.2#
127 1.6 10.4 15.6#

