

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101923\
 Data File : VW032499.D
 Acq On : 19 Oct 2023 16:04
 Operator : SY/MD
 Sample : 04928-01DL 2X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 20 06:23:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092923WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 20 06:17:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	99795	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	111865	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	53219	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	37748	4.651	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.000%
7) Chloroethane-d5	1.532	69	34589	5.250	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.000%
11) 1,1-Dichloroethene-d2	2.063	65	15456	4.515	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.400%
20) 2-Butanone-d5	3.806	46	101363	49.370	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.740%
24) Chloroform-d	4.256	84	66382	4.636	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.800%
26) 1,2-Dichloroethane-d4	4.947	65	34743	5.123	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.400%
32) Benzene-d6	4.963	84	132449	4.024	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.400%
36) 1,2-Dichloropropane-d6	5.992	67	43931	4.028	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	80.600%
41) Toluene-d8	7.246	98	114952	3.819	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.400%
43) trans-1,3-Dichloroprop...	7.561	79	16111	4.169	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.400%
46) 2-Hexanone-d5	8.031	63	88108	48.457	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.920%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	36069	4.728	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.600%
66) 1,2-Dichlorobenzene-d4	11.564	152	44967	4.553	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.285	62	17010	1.591	ug/L	98
8) Chloroethane	1.285	64	5856	0.910	ug/L #	67
12) 1,1-Dichloroethene	2.073	96	65780	8.988	ug/L #	83
16) Methylene chloride	2.449	84	75934	7.958	ug/L	94
18) trans-1,2-Dichloroethene	2.696	96	81978	9.779	ug/L	96
22) cis-1,2-Dichloroethene	3.822	96	15024	1.664	ug/L	95
27) 1,2-Dichloroethane	5.047	62	65226	7.135	ug/L	99
29) 1,1,1-Trichloroethane	4.516	97	24202	1.591	ug/L	95
31) Carbon tetrachloride	4.738	117	17194	1.336	ug/L	99
33) Benzene	5.015	78	118730	3.015	ug/L	100
34) Trichloroethene	5.838	95	15204	1.414	ug/L	96
35) Methylcyclohexane	5.992	83	10110	0.608	ug/L #	17
37) 1,2-Dichloropropane	6.098	63	16064	1.525	ug/L #	95
39) cis-1,3-Dichloropropene	6.918	75	1119	0.075	ug/L #	58
42) Toluene	7.320	91	177617	4.230	ug/L	98
45) 1,1,2-Trichloroethane	7.770	97	43004	5.788	ug/L	97
47) Tetrachloroethene	7.908	164	65132	7.988	ug/L	100
49) Dibromochloromethane	7.908	129	58809	7.602	ug/L #	8
51) Chlorobenzene	8.818	112	163850	6.061	ug/L	98

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

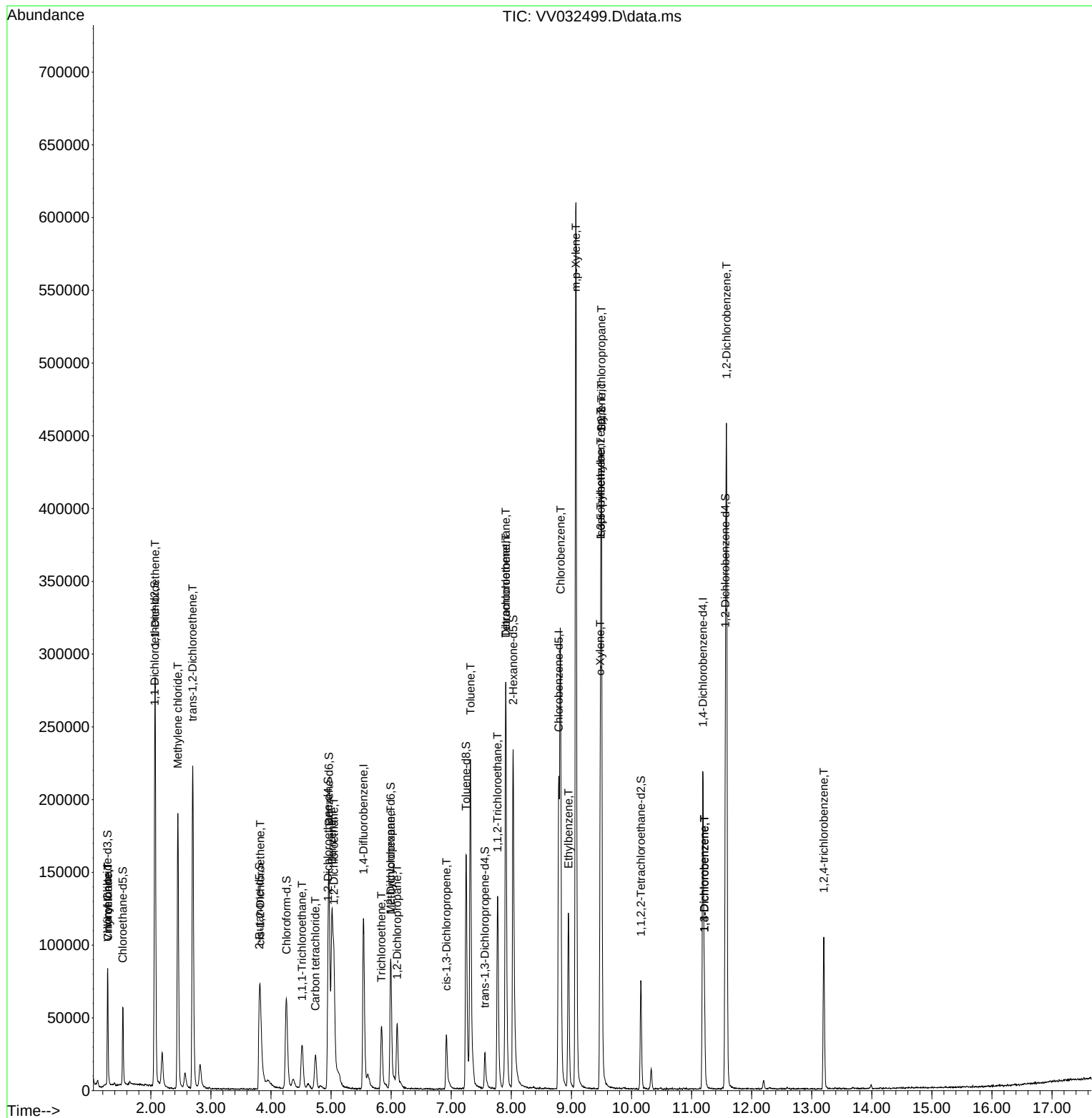
52) Ethylbenzene	8.950	91	84796	1.814	ug/L	98
53) m,p-Xylene	9.075	106	172517	9.949	ug/L	100
54) o-Xylene	9.481	106	48391	2.896	ug/L	99
55) Styrene	9.500	104	183421	6.500	ug/L	100
60) Isopropylbenzene	9.487	105	36158	0.874	ug/L #	1
61) 1,2,3-Trichloropropane	9.500	75	9664	1.706	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.487	105	36158	1.073	ug/L #	28
64) 1,3-Dichlorobenzene	11.214	146	24742	1.252	ug/L	94
65) 1,4-Dichlorobenzene	11.214	146	24742	1.248	ug/L	96
67) 1,2-Dichlorobenzene	11.580	146	157568	8.744	ug/L	99
70) 1,2,4-trichlorobenzene	13.201	180	30357	2.365	ug/L	98

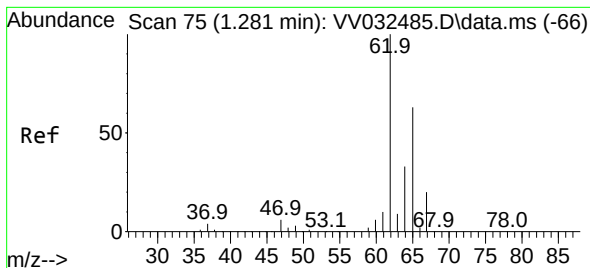
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.591 ug/L

RT: 1.285 min Scan# 76

Delta R.T. 0.003 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

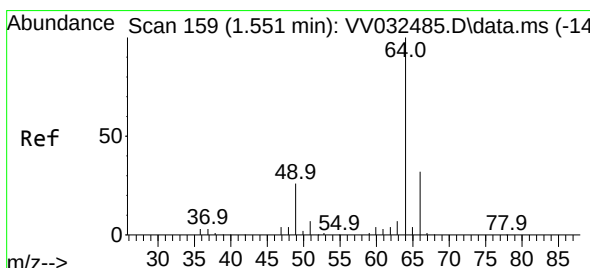
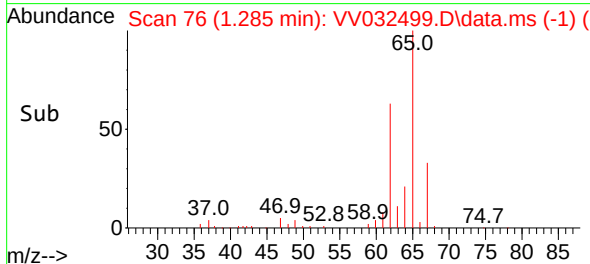
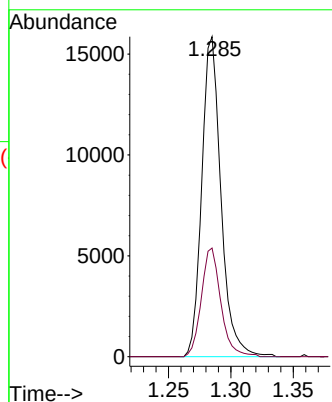
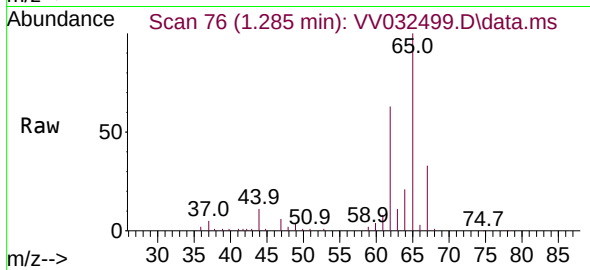
ClientSampleId :

Tgt Ion: 62 Resp: 17010

Ion Ratio Lower Upper

62 100

64 33.9 23.1 42.9



#8

Chloroethane

Concen: 0.910 ug/L

RT: 1.285 min Scan# 76

Delta R.T. -0.267 min

Lab File: VV032499.D

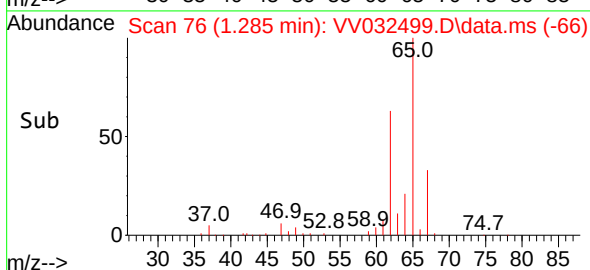
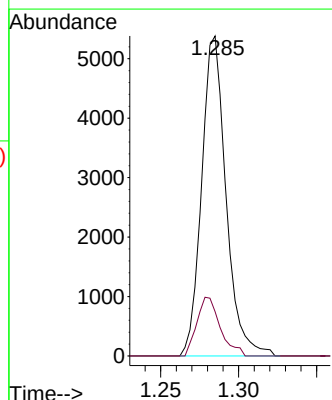
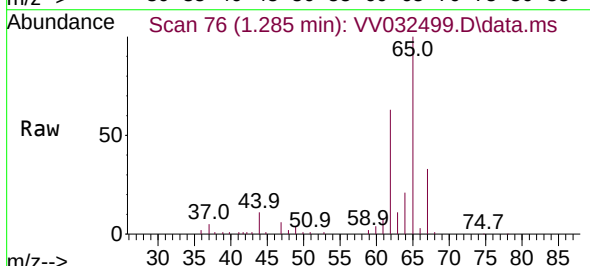
Acq: 19 Oct 2023 16:04

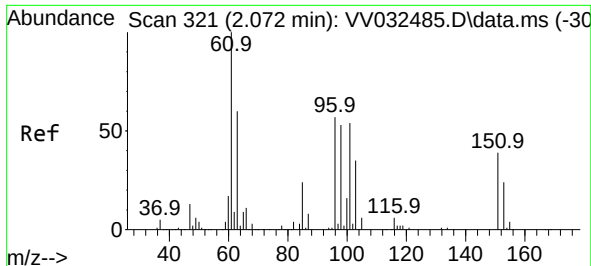
Tgt Ion: 64 Resp: 5856

Ion Ratio Lower Upper

64 100

66 13.8 22.6 42.0#





#12

1,1-Dichloroethene

Concen: 8.988 ug/L

RT: 2.073 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

ClientSampleId :

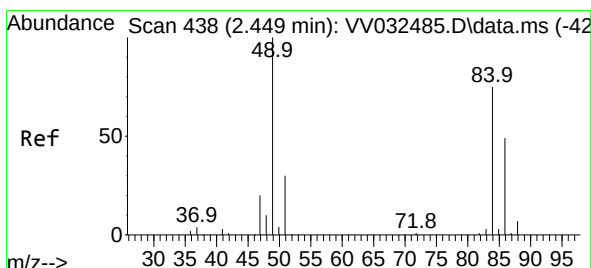
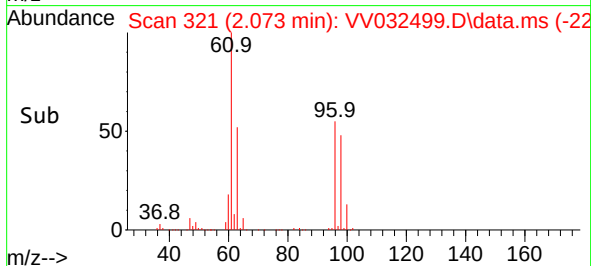
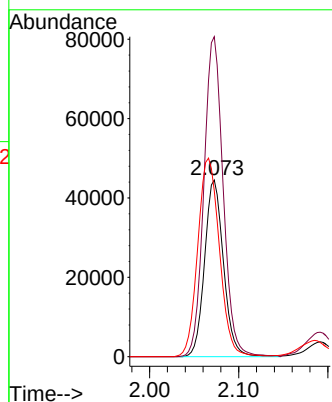
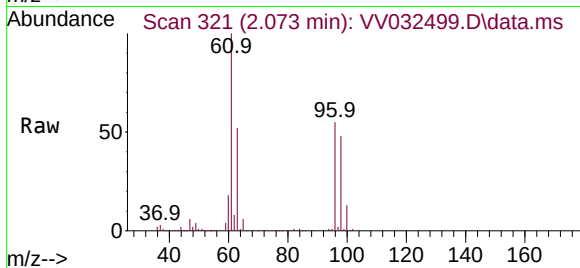
Tgt Ion: 96 Resp: 65780

Ion Ratio Lower Upper

96 100

61 181.2 127.3 236.3

63 94.0 98.3 182.7#



#16

Methylene chloride

Concen: 7.958 ug/L

RT: 2.449 min Scan# 438

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

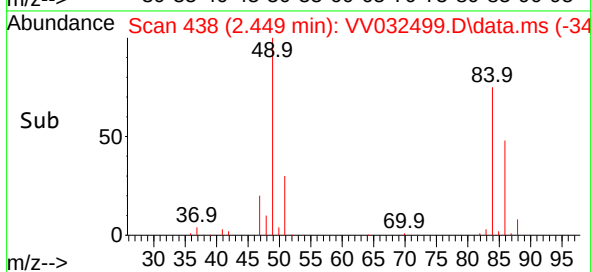
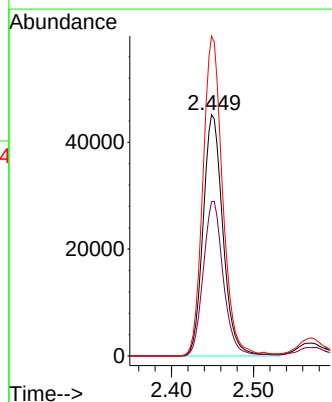
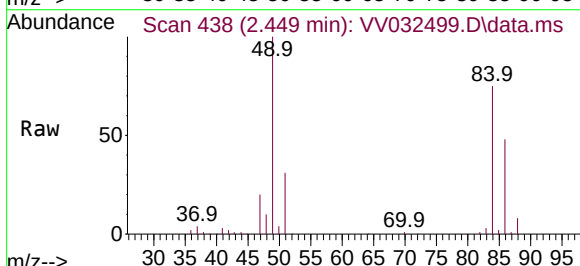
Tgt Ion: 84 Resp: 75934

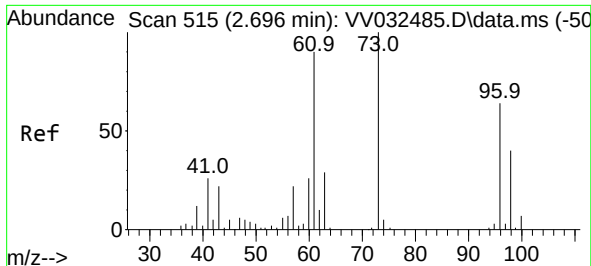
Ion Ratio Lower Upper

84 100

86 63.9 43.2 80.2

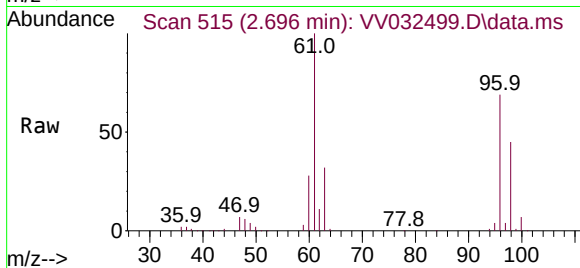
49 132.6 86.3 160.3





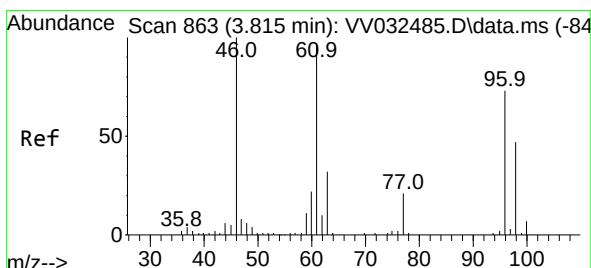
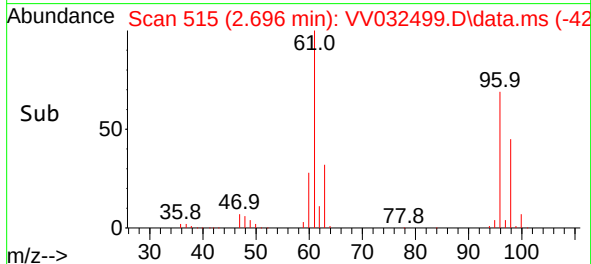
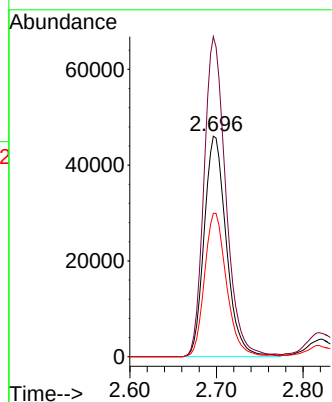
#18
trans-1,2-Dichloroethene
Concen: 9.779 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 96 Resp: 81978

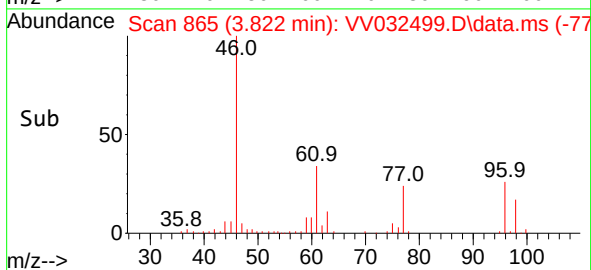
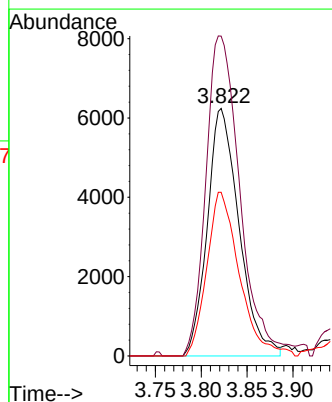
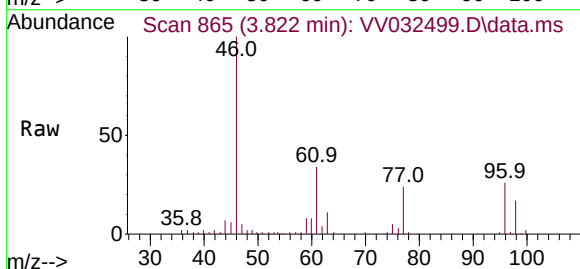
Ion	Ratio	Lower	Upper
96	100		
61	145.1	96.9	180.1
98	65.0	45.3	84.1

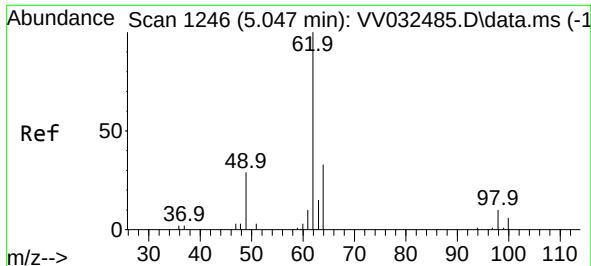


#22
cis-1,2-Dichloroethene
Concen: 1.664 ug/L
RT: 3.822 min Scan# 865
Delta R.T. 0.007 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion: 96 Resp: 15024

Ion	Ratio	Lower	Upper
96	100		
61	129.2	85.8	159.4
98	66.1	44.0	81.6





#27

1,2-Dichloroethane

Concen: 7.135 ug/L

RT: 5.047 min Scan# 1

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

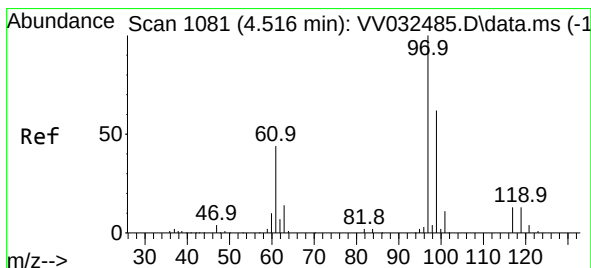
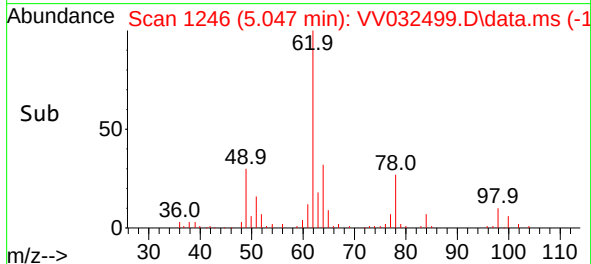
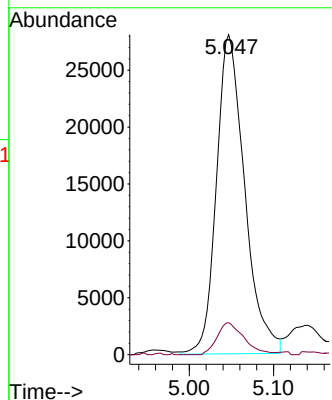
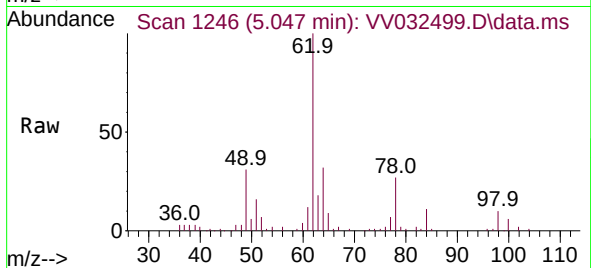
ClientSampleId :

Tgt Ion: 62 Resp: 65226

Ion Ratio Lower Upper

62 100

98 10.0 7.8 11.8



#29

1,1,1-Trichloroethane

Concen: 1.591 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

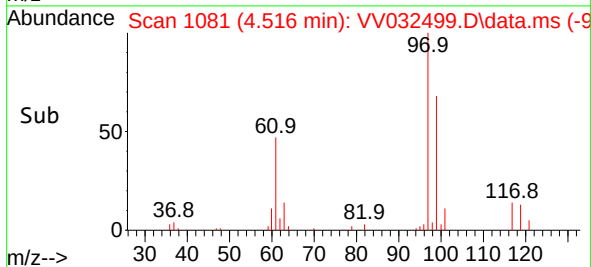
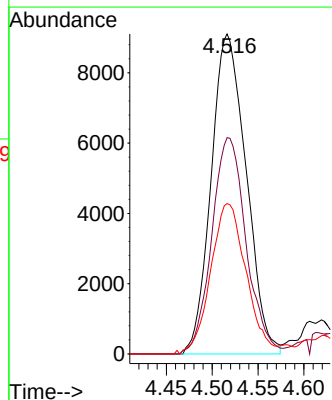
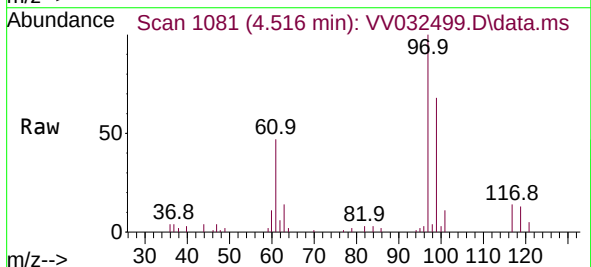
Tgt Ion: 97 Resp: 24202

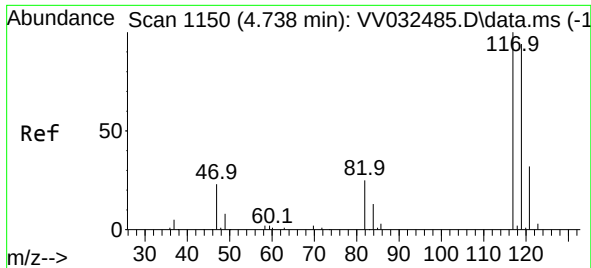
Ion Ratio Lower Upper

97 100

99 66.4 50.1 75.1

61 47.5 35.1 52.7

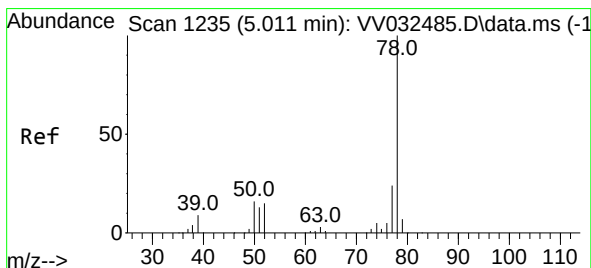
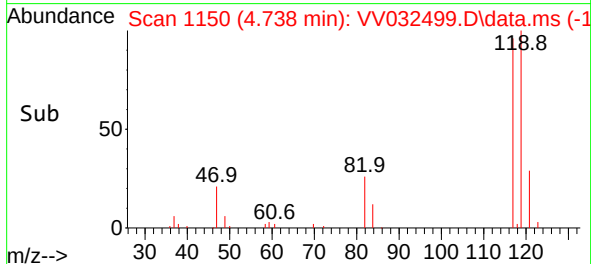
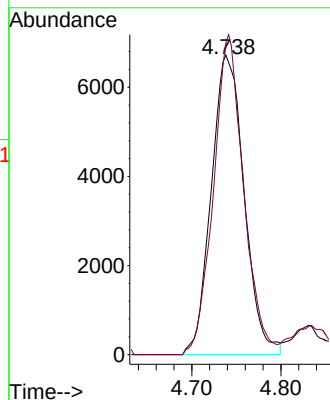
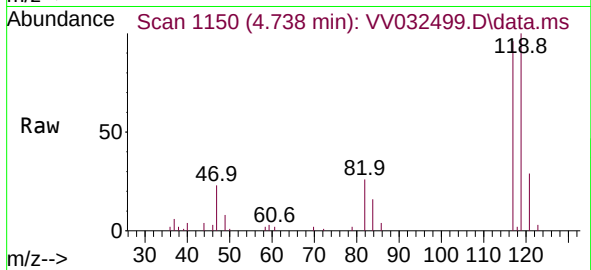




#31
Carbon tetrachloride
Concen: 1.336 ug/L
RT: 4.738 min Scan# 1150
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

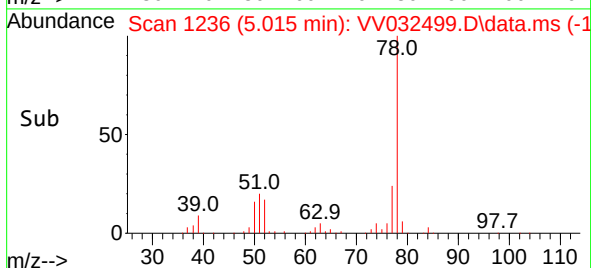
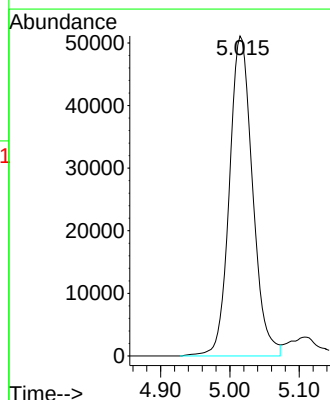
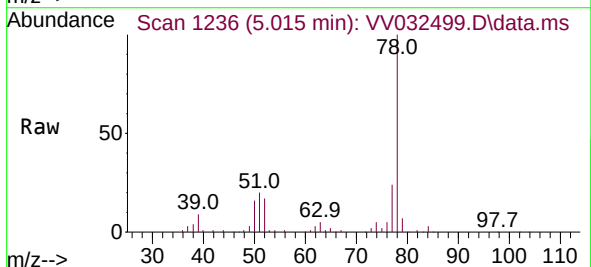
Instrument :
MSVOA_V
ClientSampleId :

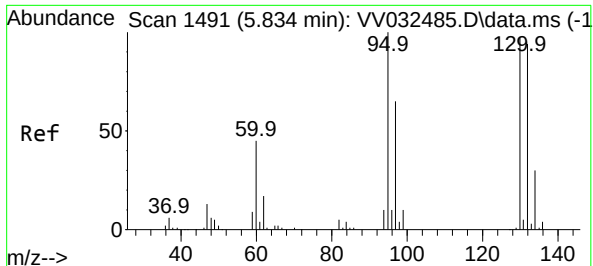
Tgt Ion:117 Resp: 17194
Ion Ratio Lower Upper
117 100
119 97.9 77.6 116.4



#33
Benzene
Concen: 3.015 ug/L
RT: 5.015 min Scan# 1236
Delta R.T. 0.003 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion: 78 Resp: 118730



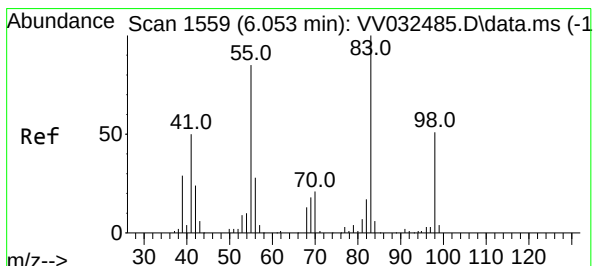
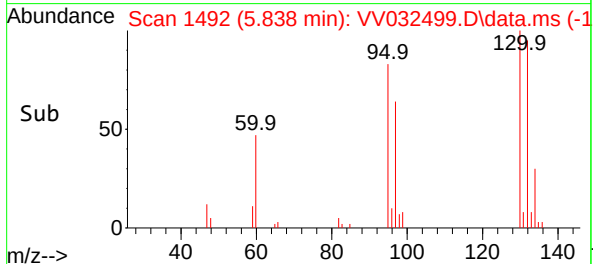
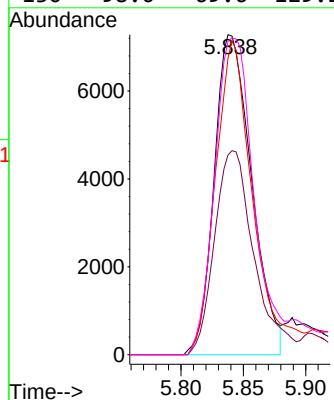
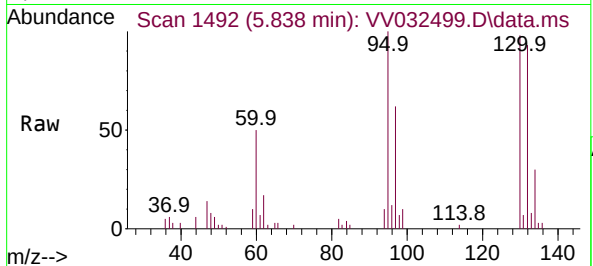


#34
Trichloroethene
Concen: 1.414 ug/L
RT: 5.838 min Scan# 1491
Delta R.T. 0.003 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 95 Resp: 15204

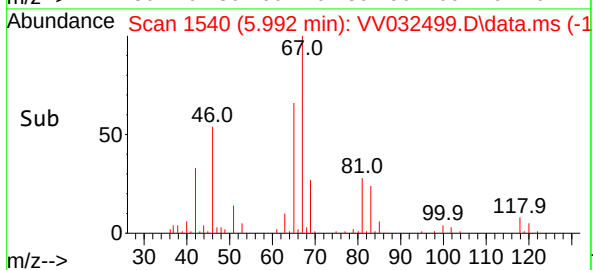
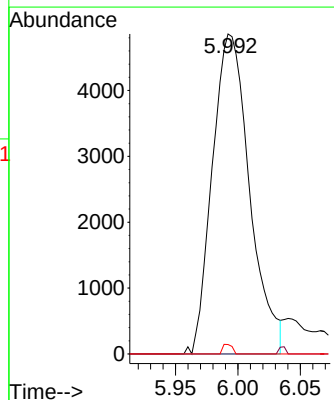
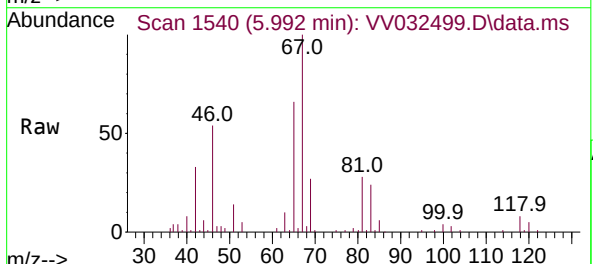
Ion	Ratio	Lower	Upper
95	100		
97	62.5	45.7	84.9
132	92.7	70.3	130.5
130	98.0	69.6	129.2

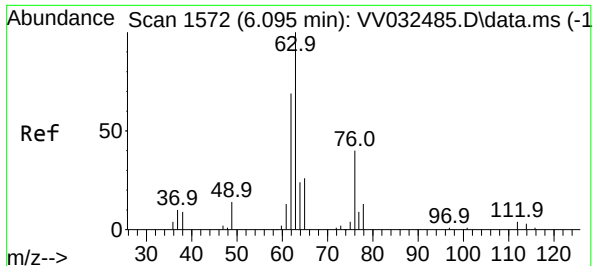


#35
Methylcyclohexane
Concen: 0.608 ug/L
RT: 5.992 min Scan# 1540
Delta R.T. -0.061 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion: 83 Resp: 10110

Ion	Ratio	Lower	Upper
83	100		
55	0.4	64.2	96.2#
98	0.8	39.6	59.4#





#37

1,2-Dichloropropane

Concen: 1.525 ug/L

RT: 6.098 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

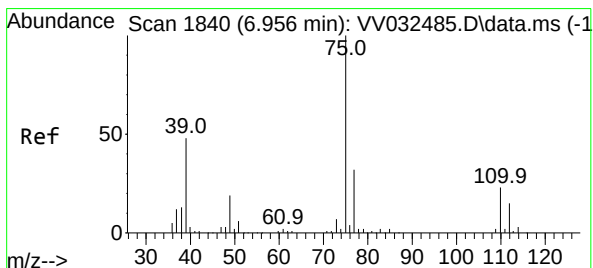
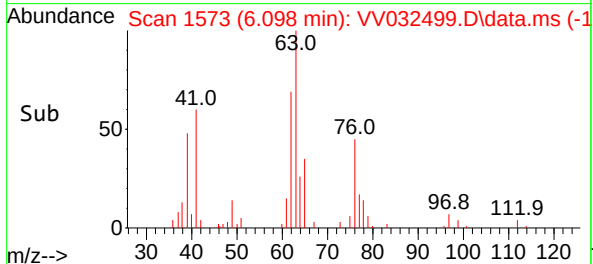
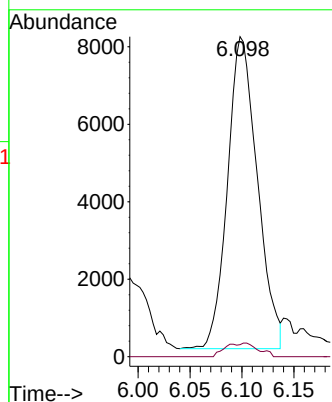
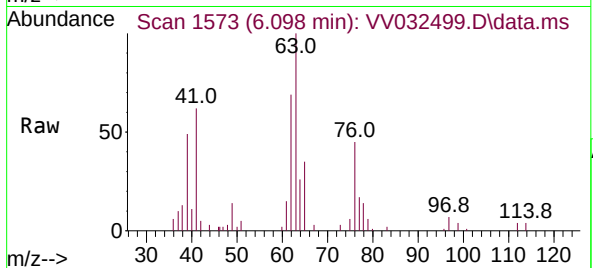
ClientSampleId :

Tgt Ion: 63 Resp: 16064

Ion Ratio Lower Upper

63 100

112 2.8 3.4 5.2#



#39

cis-1,3-Dichloropropene

Concen: 0.075 ug/L

RT: 6.918 min Scan# 1828

Delta R.T. -0.038 min

Lab File: VV032499.D

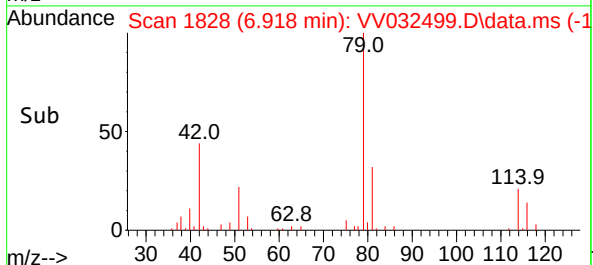
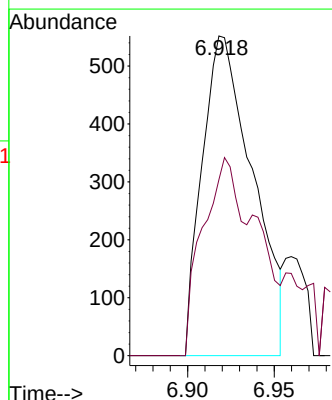
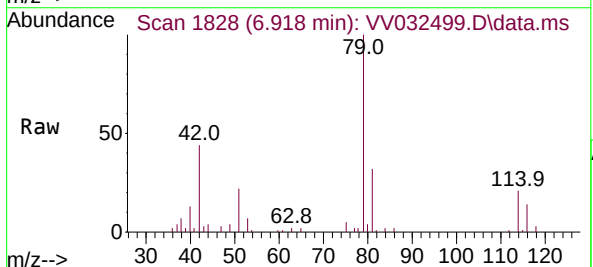
Acq: 19 Oct 2023 16:04

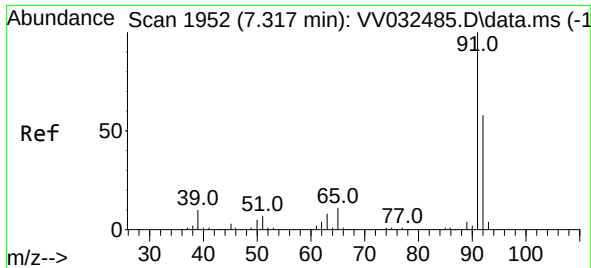
Tgt Ion: 75 Resp: 1119

Ion Ratio Lower Upper

75 100

77 55.1 22.2 41.2#





#42

Toluene

Concen: 4.230 ug/L

RT: 7.320 min Scan# 1952

Delta R.T. 0.003 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

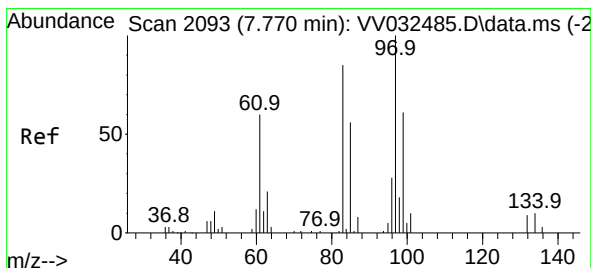
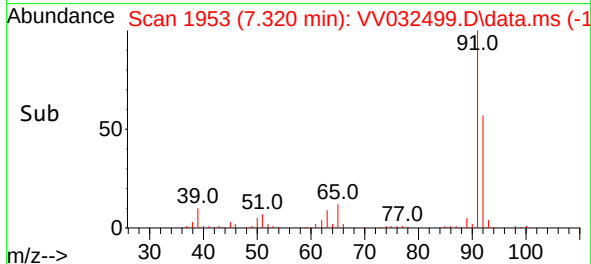
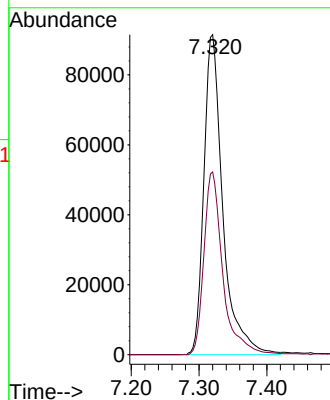
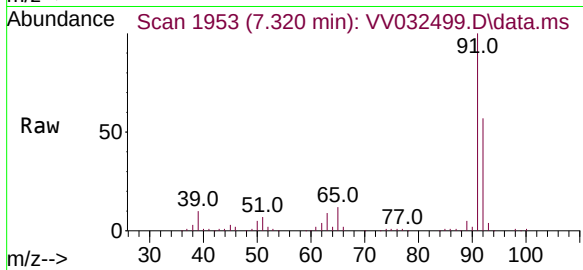
ClientSampleId :

Tgt Ion: 91 Resp: 177617

Ion Ratio Lower Upper

91 100

92 57.1 40.8 75.8



#45

1,1,2-Trichloroethane

Concen: 5.788 ug/L

RT: 7.770 min Scan# 2093

Delta R.T. 0.000 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Tgt Ion: 97 Resp: 43004

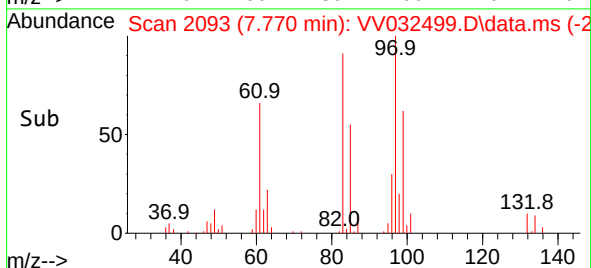
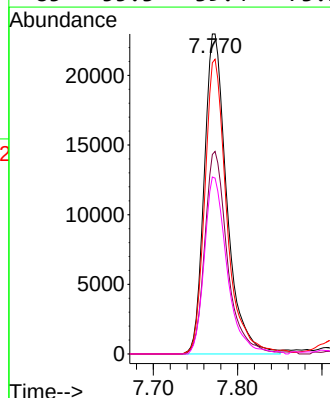
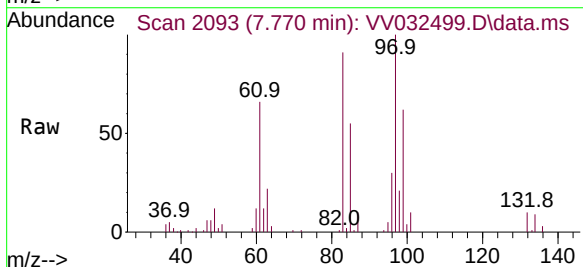
Ion Ratio Lower Upper

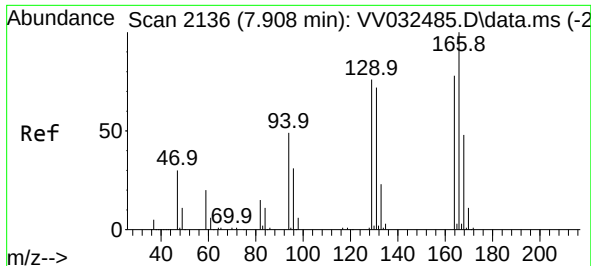
97 100

99 62.4 42.8 79.4

83 91.0 60.9 113.1

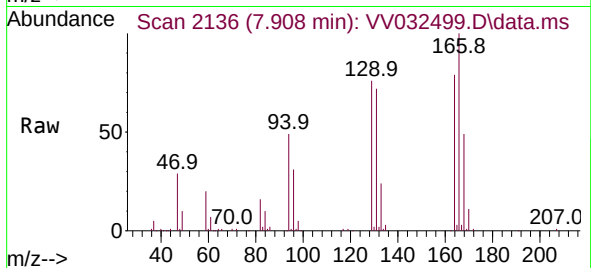
85 55.3 39.4 73.2



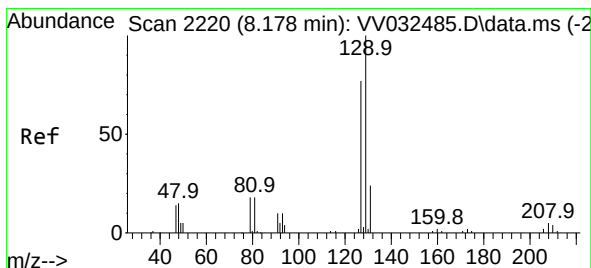
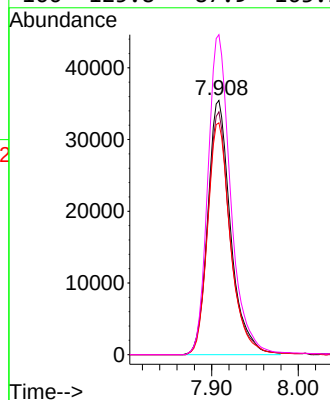
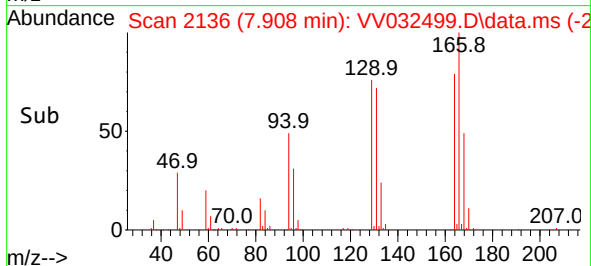


#47
Tetrachloroethene
Concen: 7.988 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

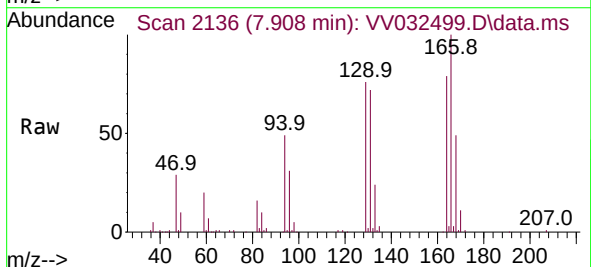
Instrument :
MSVOA_V
ClientSampleId :



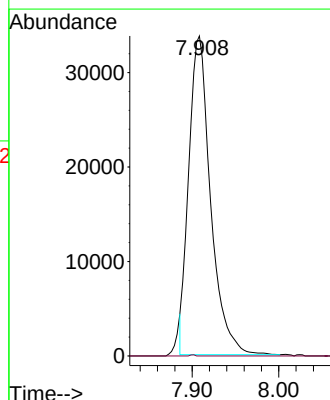
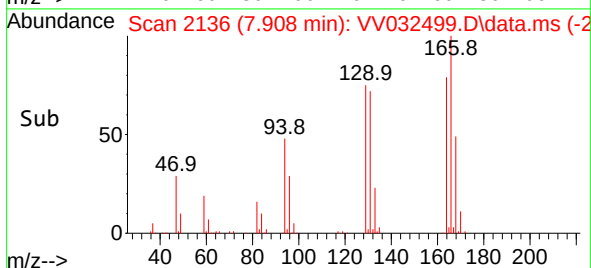
Tgt Ion:164 Resp: 65132
Ion Ratio Lower Upper
164 100
129 95.5 66.4 123.4
131 91.2 63.7 118.3
166 125.8 87.9 163.3

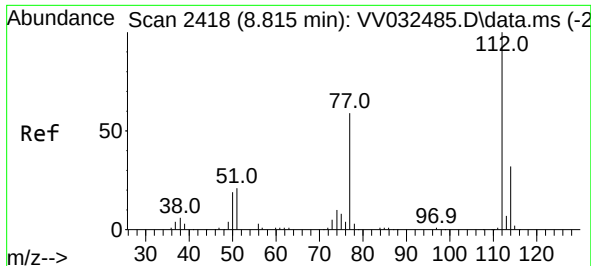


#49
Dibromochloromethane
Concen: 7.602 ug/L
RT: 7.908 min Scan# 2136
Delta R.T. -0.270 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04



Tgt Ion:129 Resp: 58809
Ion Ratio Lower Upper
129 100
127 0.0 57.2 106.2#

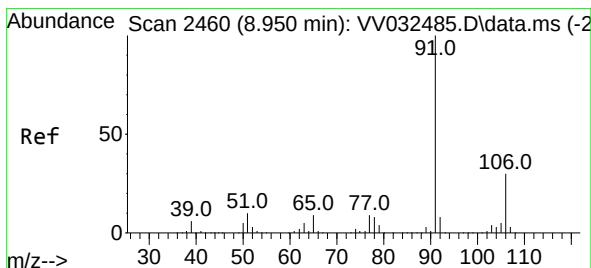
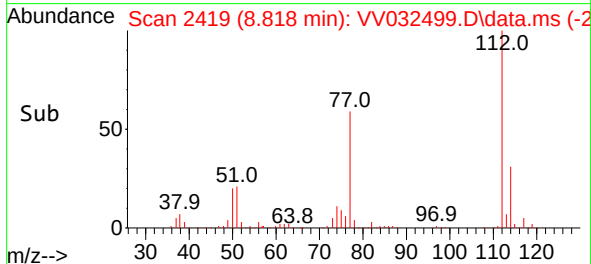
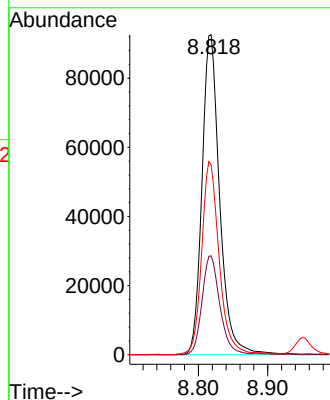
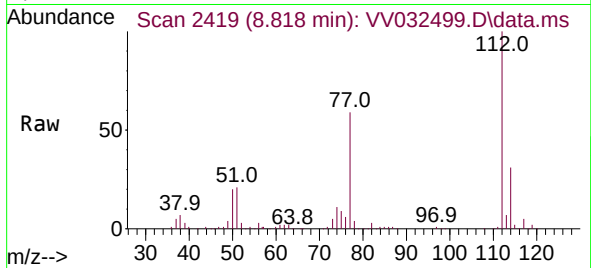




#51
Chlorobenzene
Concen: 6.061 ug/L
RT: 8.818 min Scan# 2418
Delta R.T. 0.003 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

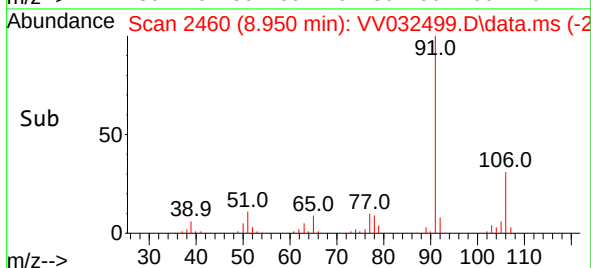
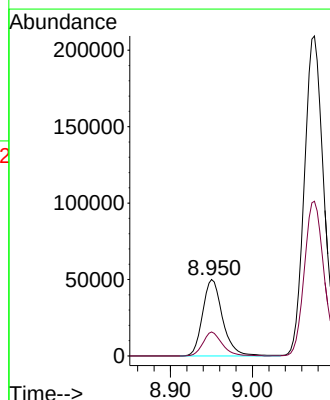
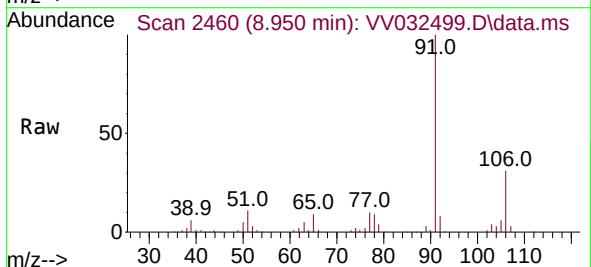
Instrument :
MSVOA_V
ClientSampleId :

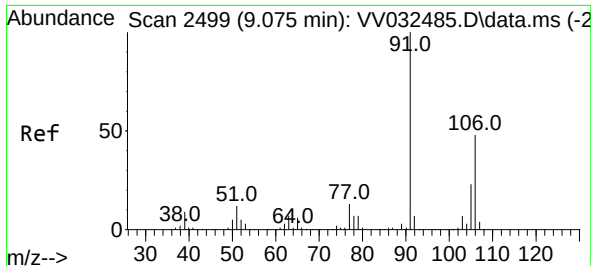
Tgt Ion:112 Resp: 163850
Ion Ratio Lower Upper
112 100
114 30.9 22.1 41.1
77 59.3 46.1 69.1



#52
Ethylbenzene
Concen: 1.814 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion: 91 Resp: 84796
Ion Ratio Lower Upper
91 100
106 31.4 21.3 39.5

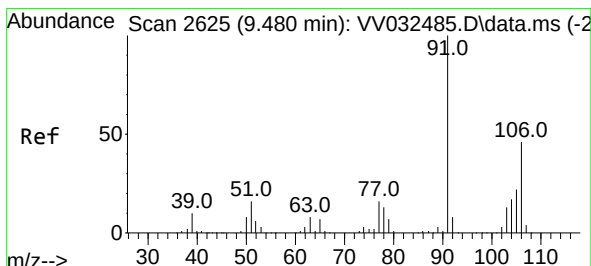
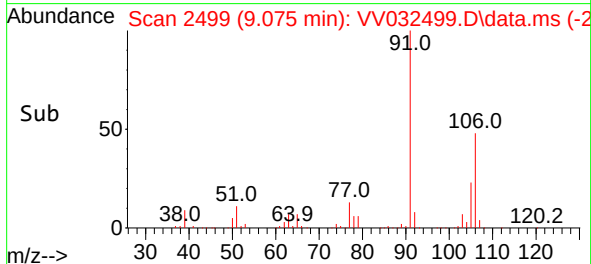
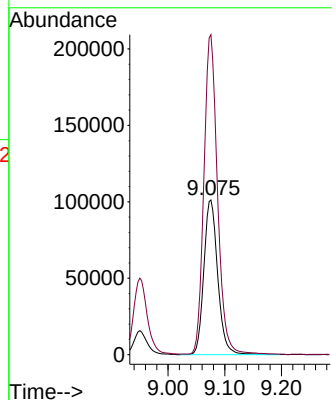
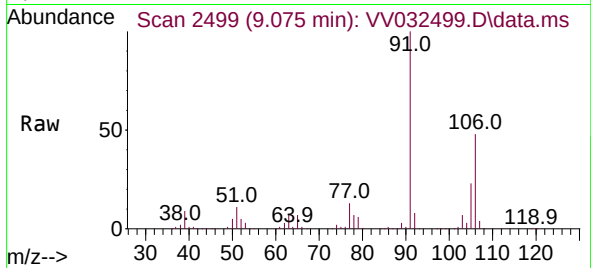




#53
m,p-Xylene
Concen: 9.949 ug/L
RT: 9.075 min Scan# 2499
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

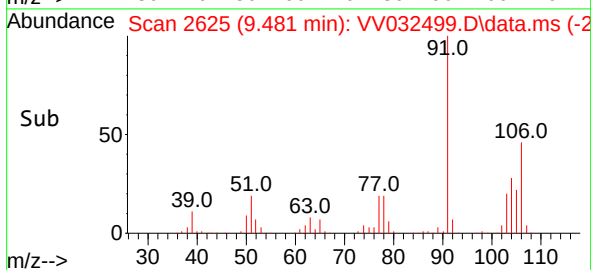
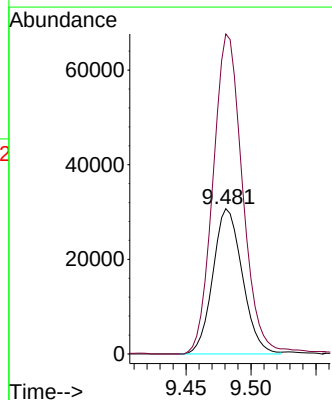
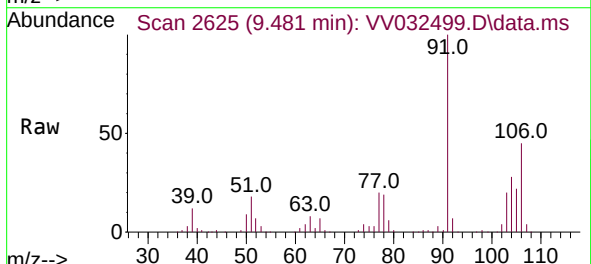
Instrument :
MSVOA_V
ClientSampleId :

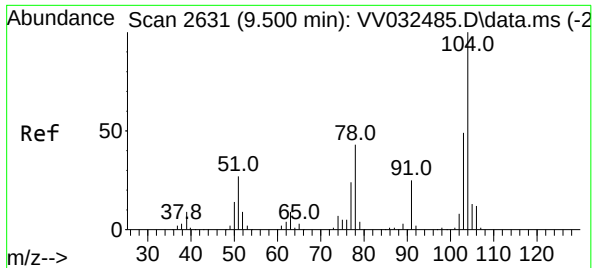
Tgt Ion:106 Resp: 172517
Ion Ratio Lower Upper
106 100
91 206.7 144.5 268.3



#54
o-Xylene
Concen: 2.896 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion:106 Resp: 48391
Ion Ratio Lower Upper
106 100
91 220.2 154.8 287.4

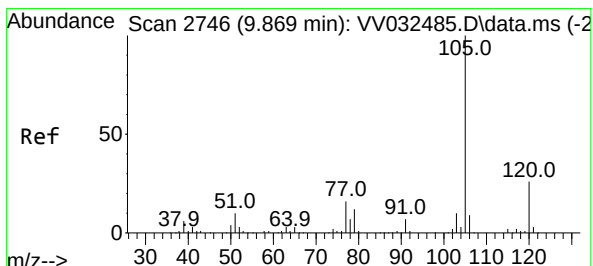
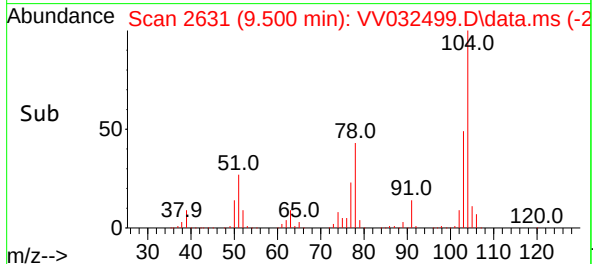
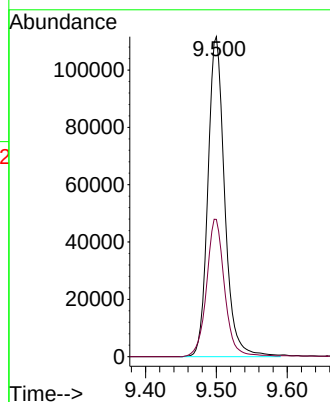
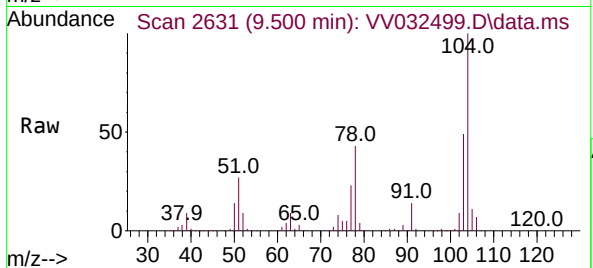




#55
Styrene
Concen: 6.500 ug/L
RT: 9.500 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

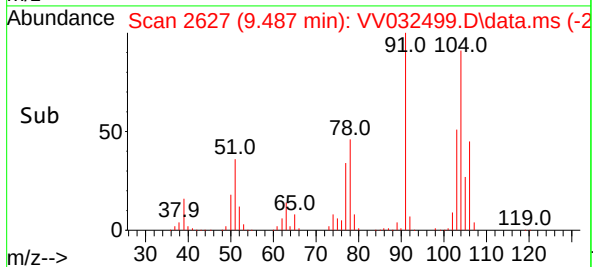
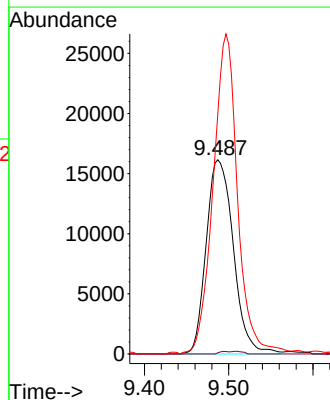
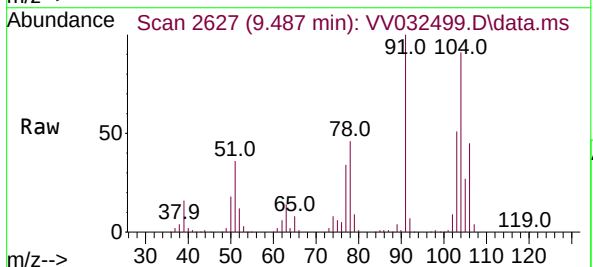
Instrument :
MSVOA_V
ClientSampleId :

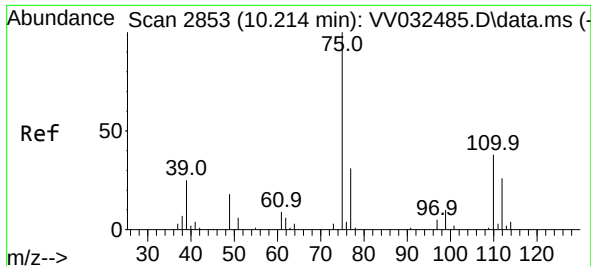
Tgt Ion:104 Resp: 183421
Ion Ratio Lower Upper
104 100
78 42.9 29.9 55.5



#60
Isopropylbenzene
Concen: 0.874 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.382 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion:105 Resp: 36158
Ion Ratio Lower Upper
105 100
120 0.5 21.0 31.6#
77 148.3 12.6 19.0#

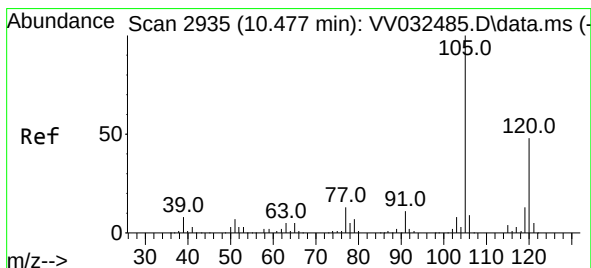
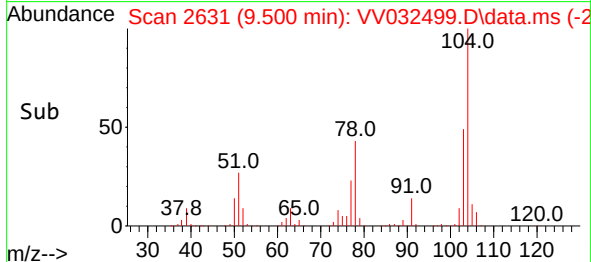
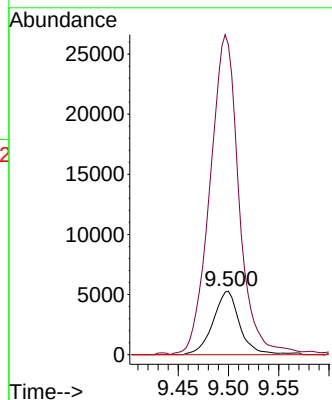
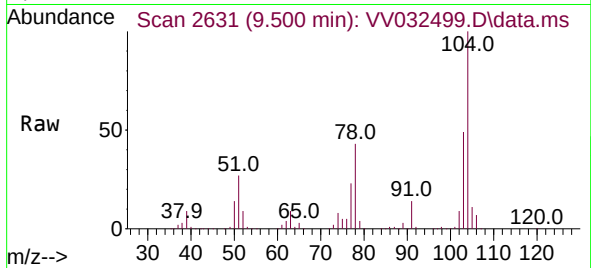




#61
1,2,3-Trichloropropane
Concen: 1.706 ug/L
RT: 9.500 min Scan# 2627
Delta R.T. -0.714 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

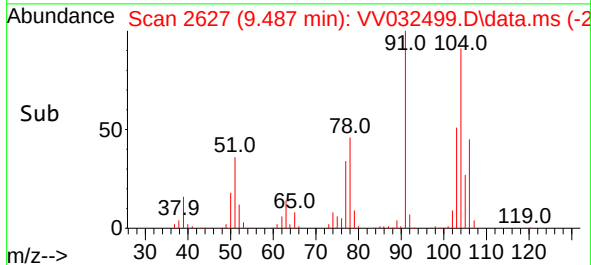
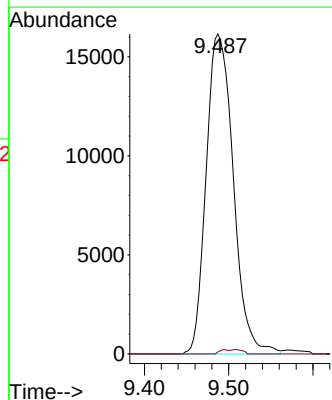
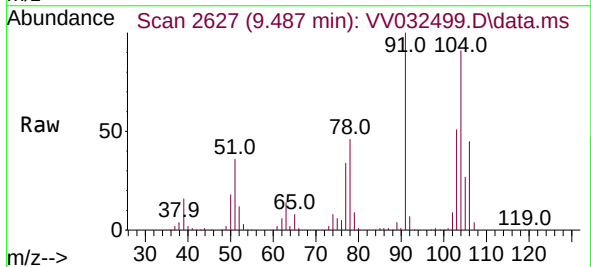
Instrument :
MSVOA_V
ClientSampleId :

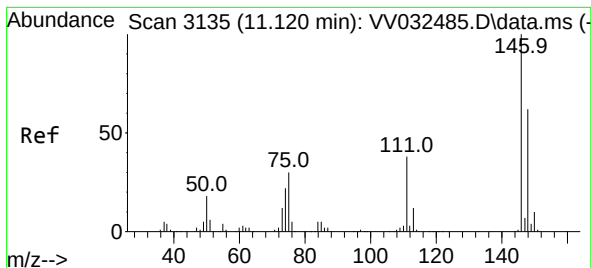
Tgt Ion: 75 Resp: 9664
Ion Ratio Lower Upper
75 100
77 554.8 26.2 39.2#
110 0.0 30.6 46.0#



#62
1,3,5-Trimethylbenzene
Concen: 1.073 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.990 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion:105 Resp: 36158
Ion Ratio Lower Upper
105 100
120 0.5 39.9 59.9#





#64

1,3-Dichlorobenzene

Concen: 1.252 ug/L

RT: 11.214 min Scan# 3164

Delta R.T. 0.093 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

Instrument :

MSVOA_V

ClientSampleId :

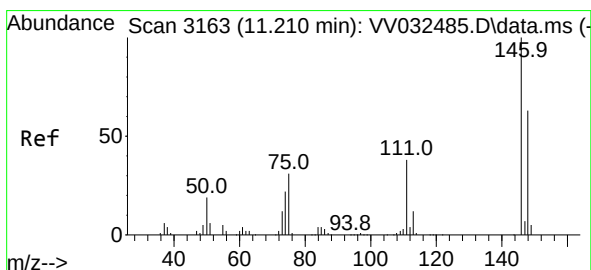
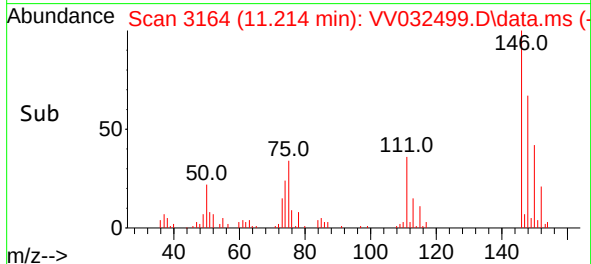
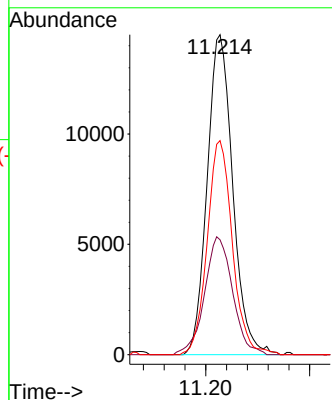
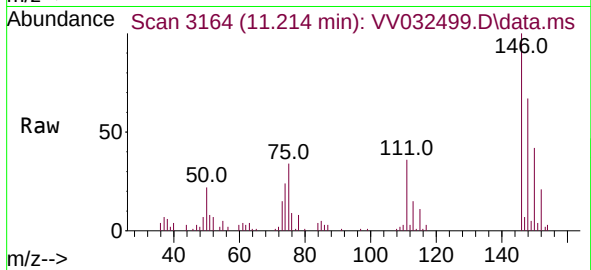
Tgt Ion:146 Resp: 24742

Ion Ratio Lower Upper

146 100

111 35.9 27.8 51.6

148 66.9 43.7 81.1



#65

1,4-Dichlorobenzene

Concen: 1.248 ug/L

RT: 11.214 min Scan# 3164

Delta R.T. 0.003 min

Lab File: VV032499.D

Acq: 19 Oct 2023 16:04

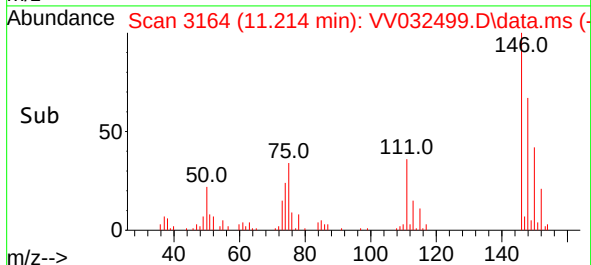
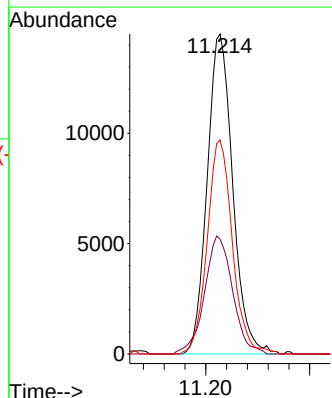
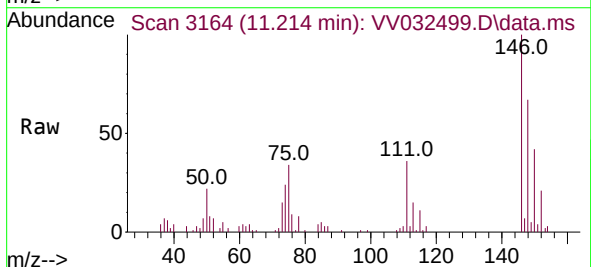
Tgt Ion:146 Resp: 24742

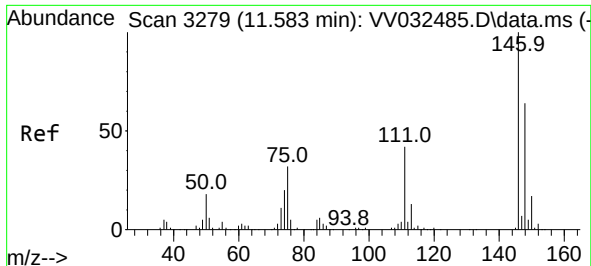
Ion Ratio Lower Upper

146 100

111 35.9 26.9 49.9

148 66.9 44.8 83.2

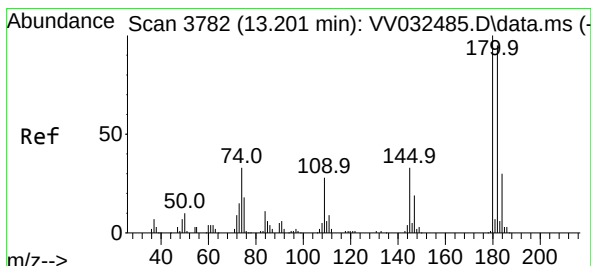
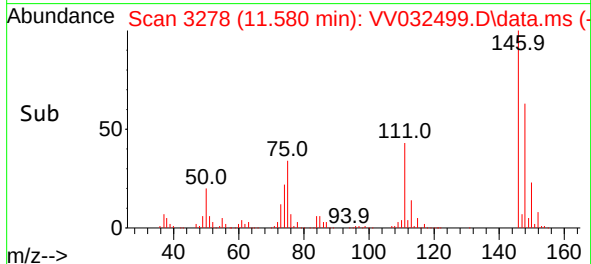
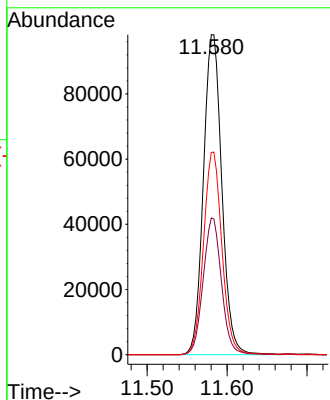
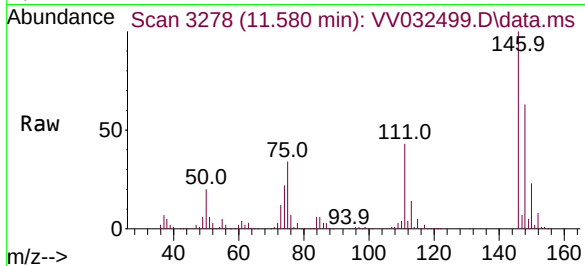




#67
1,2-Dichlorobenzene
Concen: 8.744 ug/L
RT: 11.580 min Scan# 31
Delta R.T. -0.003 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:146 Resp: 157568
Ion Ratio Lower Upper
146 100
111 42.8 32.8 49.2
148 63.2 51.0 76.4



#70
1,2,4-trichlorobenzene
Concen: 2.365 ug/L
RT: 13.201 min Scan# 3782
Delta R.T. 0.000 min
Lab File: VV032499.D
Acq: 19 Oct 2023 16:04

Tgt Ion:180 Resp: 30357
Ion Ratio Lower Upper
180 100
182 93.3 76.5 114.7
145 30.5 24.3 36.5

