

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX073024\
 Data File : VX042732.D
 Acq On : 30 Jul 2024 12:26
 Operator : JC/MD
 Sample : P3287-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 XB509

Quant Time: Jul 31 03:15:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML072624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Jul 31 03:10:58 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.757	114	184898	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	164059	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	74472	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	45456	40.466	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.940%
7) Chloroethane-d5	1.648	69	19769	42.708	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.420%
11) 1,1-Dichloroethene-d2	2.294	65	24605	44.456	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.920%
21) 2-Butanone-d5	4.465	46	67078	80.568	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	80.570%
24) Chloroform-d	5.050	84	103329	42.025	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.060%
26) 1,2-Dichloroethane-d4	5.952	65	69469	43.794	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.580%
32) Benzene-d6	5.971	84	209088	45.921	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.840%
36) 1,2-Dichloropropane-d6	7.306	67	61210	45.423	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.840%
41) Toluene-d8	8.647	98	190993	46.785	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.560%
43) trans-1,3-Dichloroprop...	8.952	79	26936	42.714	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.420%
47) 2-Hexanone-d5	9.385	63	49712	82.510	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.510%
56) 1,1,2,2-Tetrachloroeth...	11.189	84	85020	43.819	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.640%
66) 1,2-Dichlorobenzene-d4	12.317	152	65360	46.439	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.880%
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	12796	9.473	ug/L	99
12) 1,1-Dichloroethene	2.307	96	16945	14.176	ug/L #	8
13) Acetone	2.392	43	11203	17.214	ug/L	99
16) Methylene chloride	2.788	84	31714	22.974	ug/L	92
18) Methyl tert-butyl Ether	3.117	73	172970	40.681	ug/L	98
20) cis-1,2-Dichloroethene	4.477	96	16439	11.733	ug/L	91
25) Chloroform	5.093	83	19969	7.996	ug/L	85
27) 1,2-Dichloroethane	6.086	62	44563	22.468	ug/L	96
34) Trichloroethene	7.123	95	33343	24.858	ug/L	88
37) 1,2-Dichloropropane	7.428	63	40003	30.657	ug/L #	96
39) cis-1,3-Dichloropropene	8.366	75	44460	22.198	ug/L	96
40) 4-Methyl-2-pentanone	8.574	43	79428	44.243	ug/L	98
42) Toluene	8.714	91	213186	41.226	ug/L	99
44) trans-1,3-Dichloropropene	8.982	75	15060	8.295	ug/L	94
45) 1,1,2-Trichloroethane	9.153	97	29952	22.727	ug/L	98
46) Tetrachloroethene	9.275	164	10252	11.207	ug/L	91
48) 2-Hexanone	9.433	43	56014	40.118	ug/L	98
49) Dibromochloromethane	9.519	129	37916	30.810	ug/L	96
50) 1,2-Dibromoethane	9.610	107	30886	22.533	ug/L #	100

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Quant Title : VOC Analysis
QLast Update : Wed Jul 31 03:10:58 2024
Response via : Initial Calibration

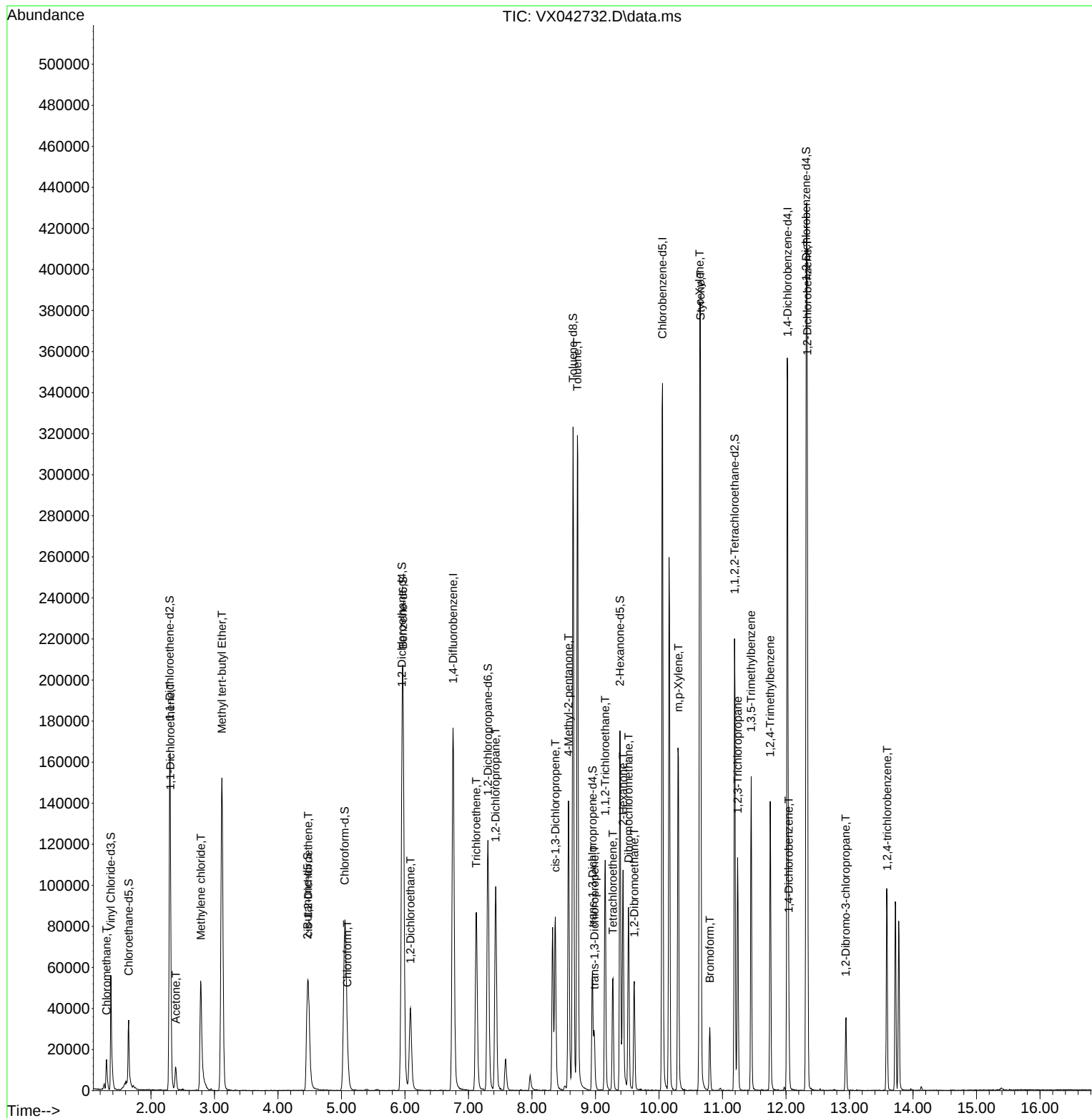
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	10.305	106	41803	19.564	ug/L	91
54) o-Xylene	10.640	106	63672	29.956	ug/L	94
55) Styrene	10.653	104	105366	29.738	ug/L	100
59) Bromoform	10.799	173	10350	12.384	ug/L	98
61) 1,2,3-Trichloropropane	11.238	75	35344	20.514	ug/L	98
62) 1,3,5-Trimethylbenzene	11.451	105	64056	13.687	ug/L	100
63) 1,2,4-Trimethylbenzene	11.750	105	61590	13.328	ug/L	99
65) 1,4-Dichlorobenzene	12.043	146	16515	6.775	ug/L	95
67) 1,2-Dichlorobenzene	12.335	146	93402	38.327	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.939	75	7486	16.310	ug/L #	84
70) 1,2,4-trichlorobenzene	13.591	180	22064	16.761	ug/L	100

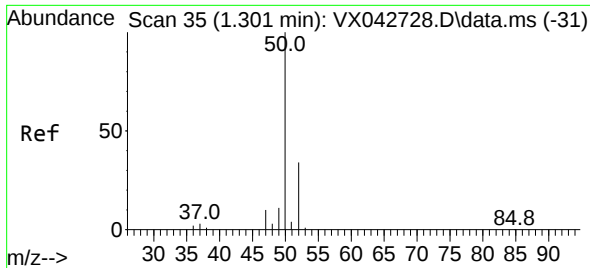
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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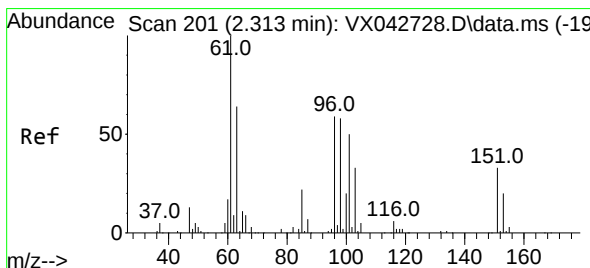
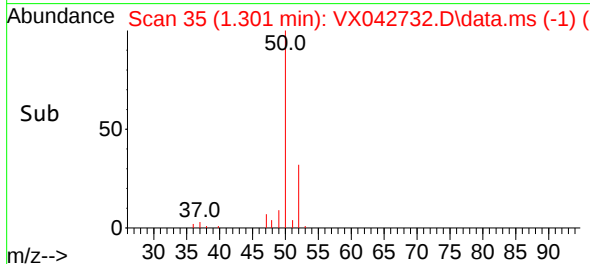
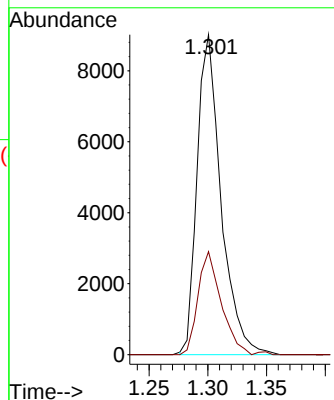
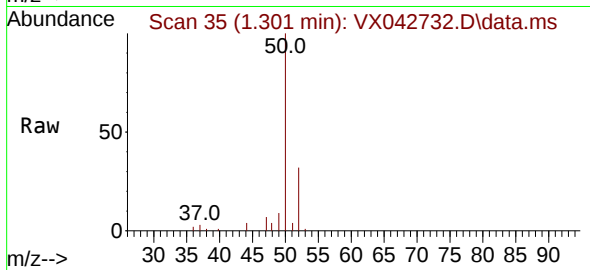




#3
Chloromethane
Concen: 9.473 ug/L
RT: 1.301 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

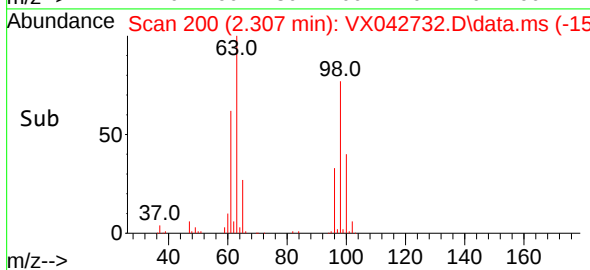
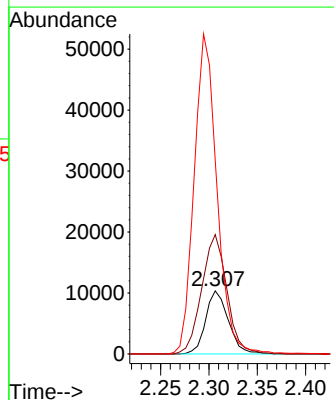
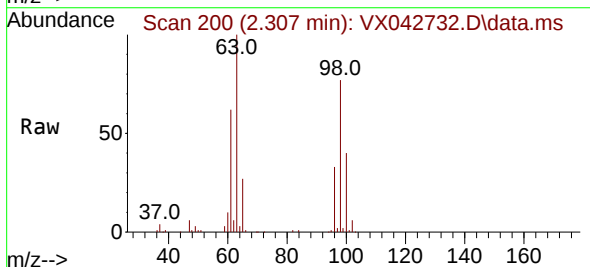
Instrument :
MSVOA_X
ClientSampleId :
XB509

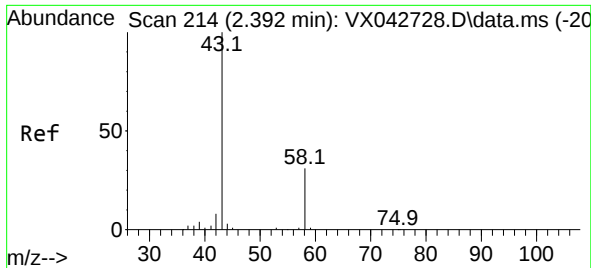
Tgt Ion: 50 Resp: 12796
Ion Ratio Lower Upper
50 100
52 32.2 23.0 42.6



#12
1,1-Dichloroethene
Concen: 14.176 ug/L
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

Tgt Ion: 96 Resp: 16945
Ion Ratio Lower Upper
96 100
61 189.4 113.0 209.9
63 307.1 70.5 130.9#





#13

Acetone

Concen: 17.214 ug/L

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

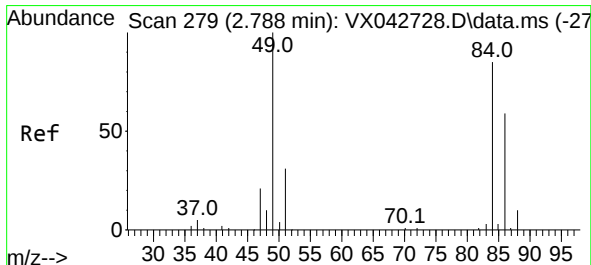
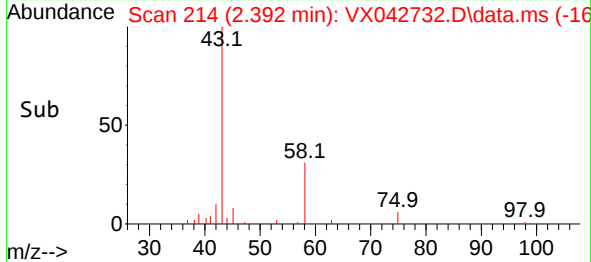
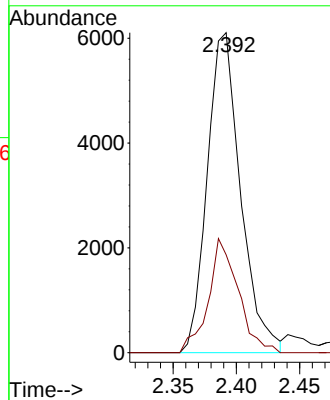
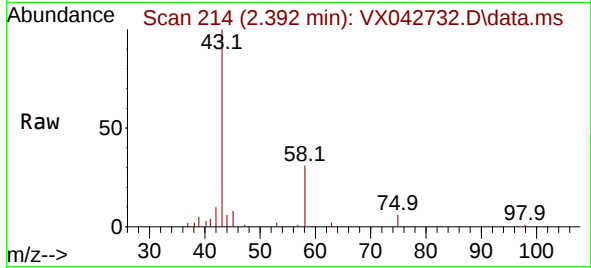
XB509

Tgt Ion: 43 Resp: 11203

Ion Ratio Lower Upper

43 100

58 32.0 0.0 62.4



#16

Methylene chloride

Concen: 22.974 ug/L

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX042732.D

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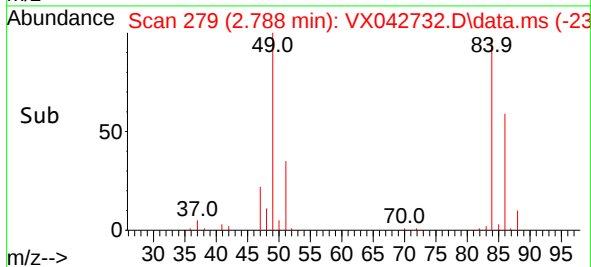
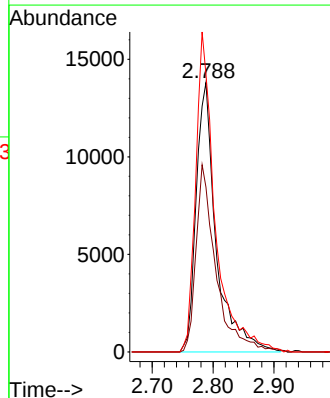
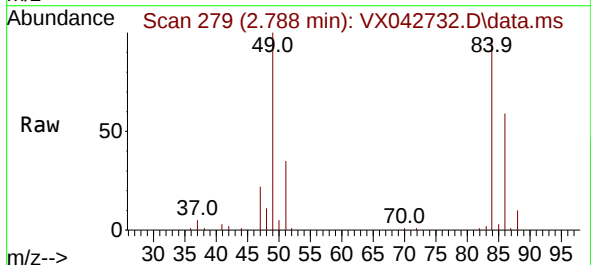
Tgt Ion: 84 Resp: 31714

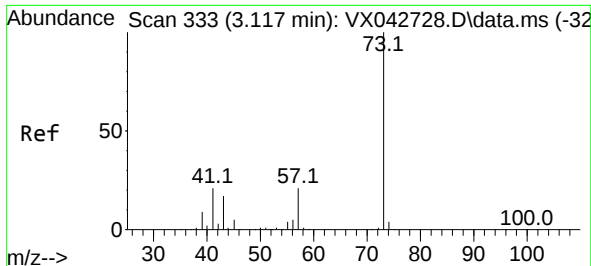
Ion Ratio Lower Upper

84 100

86 61.2 43.5 80.7

49 103.0 81.1 150.7

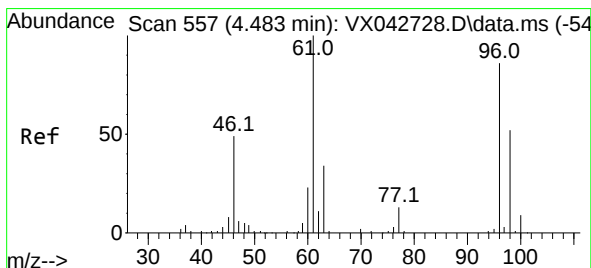
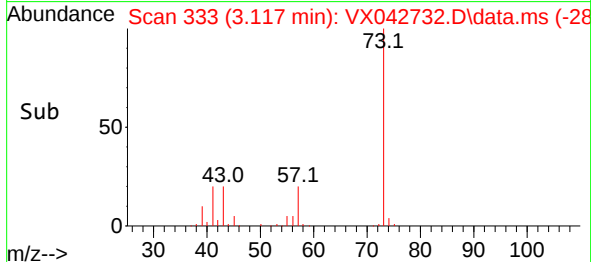
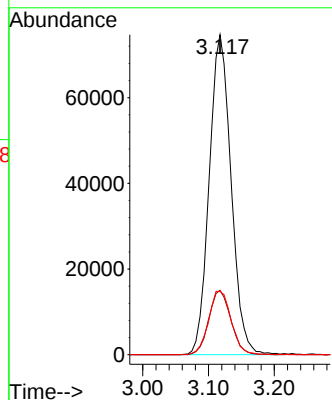
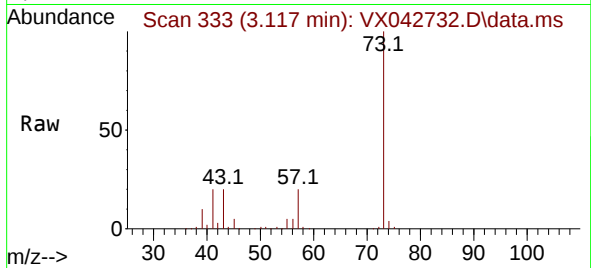




#18
Methyl tert-butyl Ether
Concen: 40.681 ug/L
RT: 3.117 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

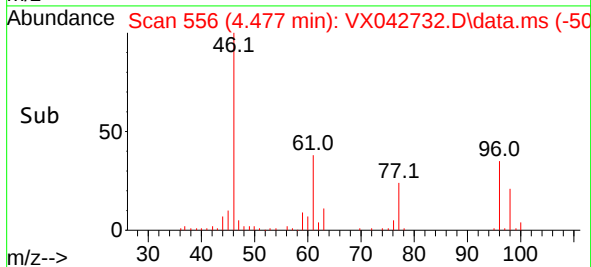
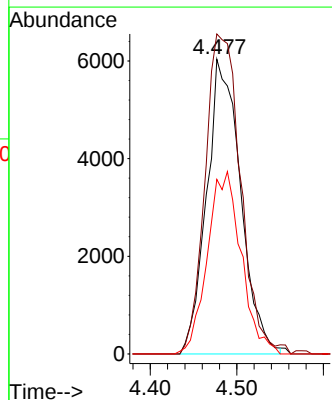
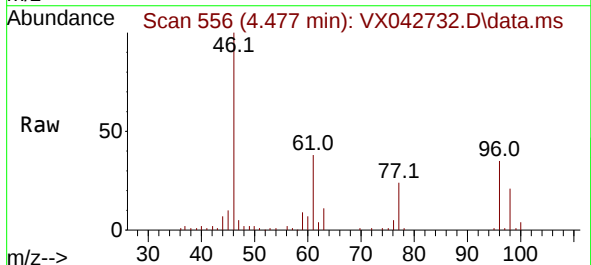
Instrument :
MSVOA_X
ClientSampleId :
XB509

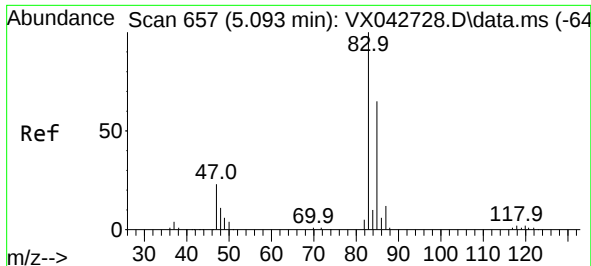
Tgt Ion: 73 Resp: 172970
Ion Ratio Lower Upper
73 100
43 20.1 15.4 23.2
57 20.5 16.9 25.3



#20
cis-1,2-Dichloroethene
Concen: 11.733 ug/L
RT: 4.477 min Scan# 556
Delta R.T. -0.006 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

Tgt Ion: 96 Resp: 16439
Ion Ratio Lower Upper
96 100
61 108.5 85.3 158.3
98 59.2 42.7 79.3

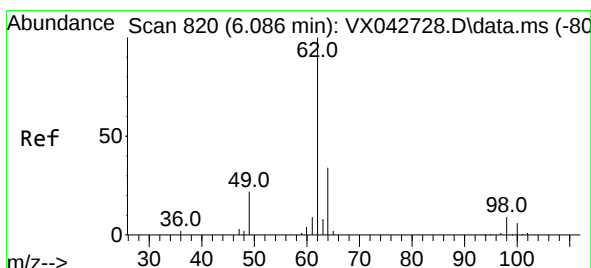
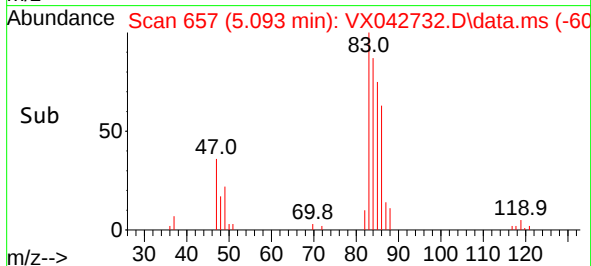
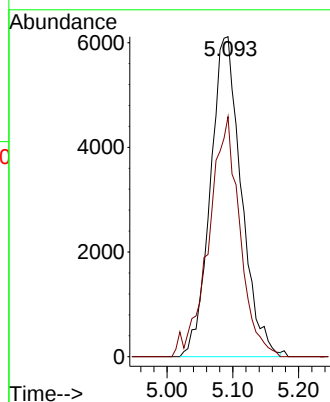
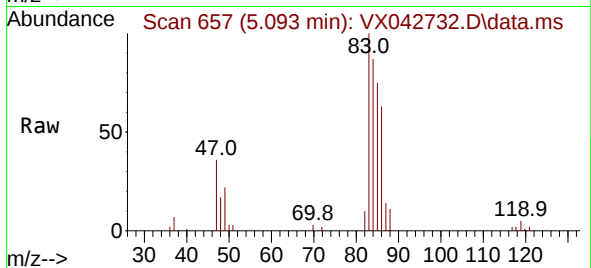




#25
Chloroform
Concen: 7.996 ug/L
RT: 5.093 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

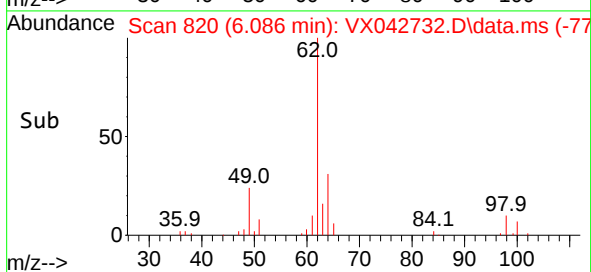
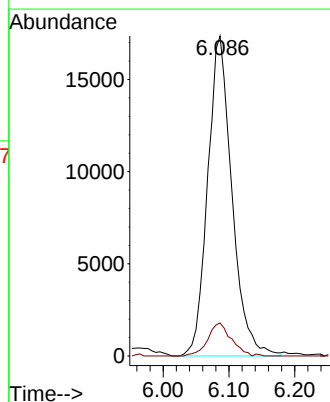
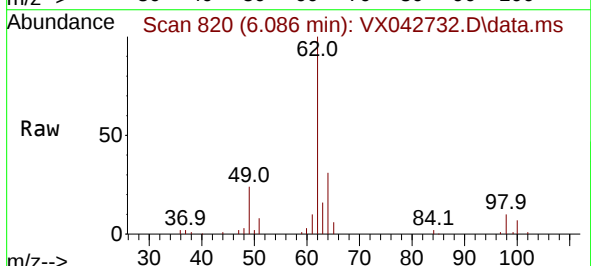
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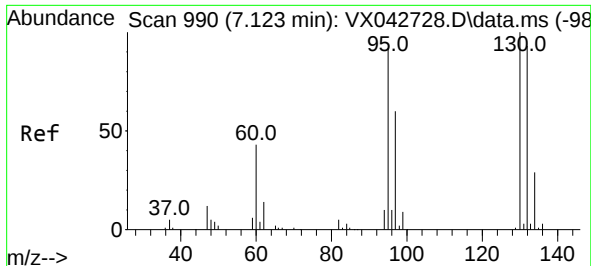
Tgt Ion: 83 Resp: 19969
Ion Ratio Lower Upper
83 100
85 75.0 44.3 82.3



#27
1,2-Dichloroethane
Concen: 22.468 ug/L
RT: 6.086 min Scan# 820
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

Tgt Ion: 62 Resp: 44563
Ion Ratio Lower Upper
62 100
98 10.3 7.1 10.7

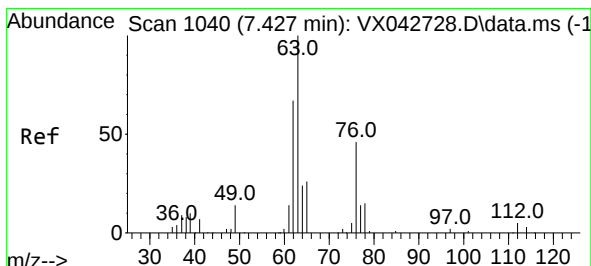
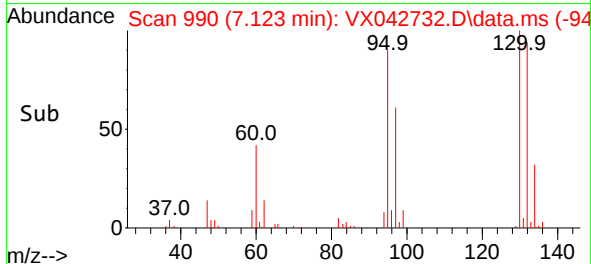
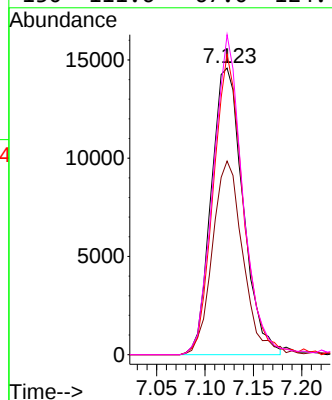
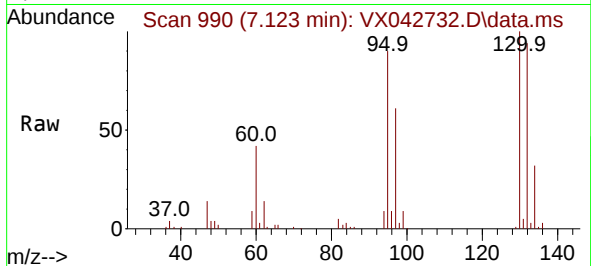




#34
Trichloroethene
Concen: 24.858 ug/L
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

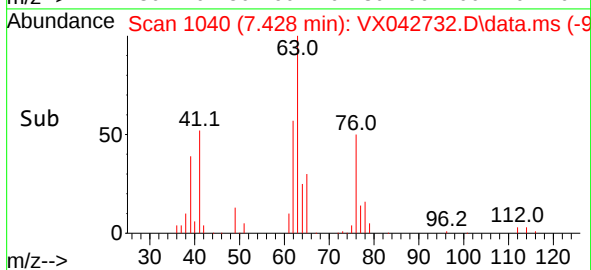
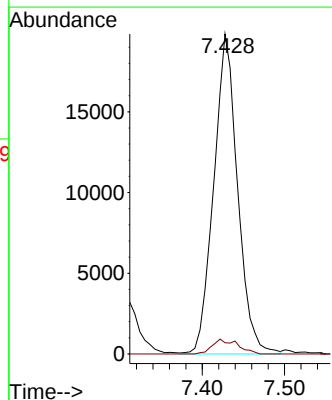
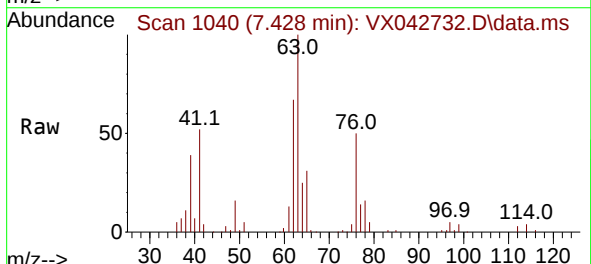
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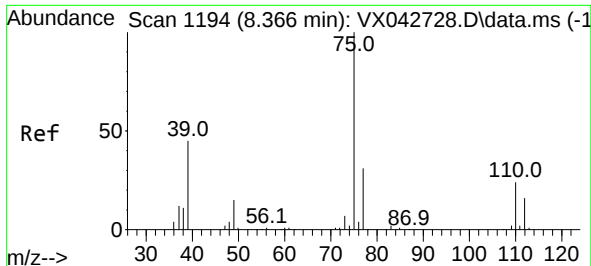
Tgt Ion: 95 Resp: 33343
Ion Ratio Lower Upper
95 100
97 67.6 46.3 86.1
132 104.9 64.3 119.5
130 111.6 67.0 124.4



#37
1,2-Dichloropropane
Concen: 30.657 ug/L
RT: 7.428 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

Tgt Ion: 63 Resp: 40003
Ion Ratio Lower Upper
63 100
112 3.2 3.7 5.5#





#39

cis-1,3-Dichloropropene

Concen: 22.198 ug/L

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

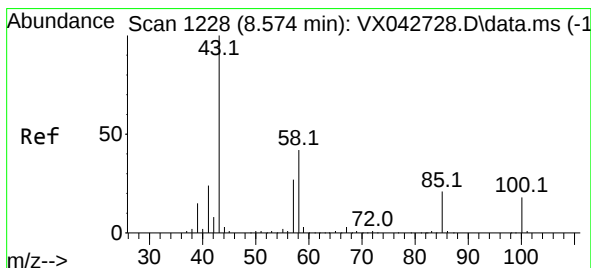
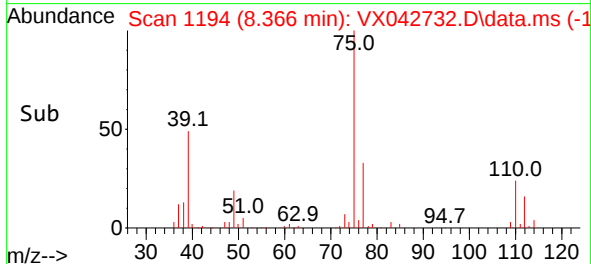
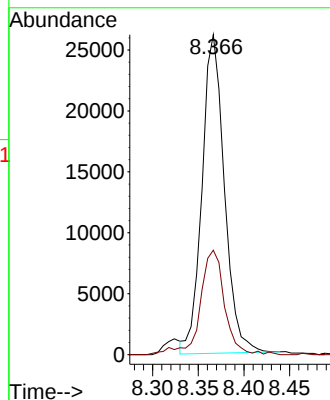
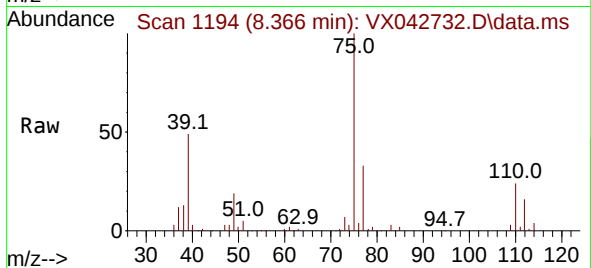
XB509

Tgt Ion: 75 Resp: 44460

Ion Ratio Lower Upper

75 100

77 32.7 21.4 39.8



#40

4-Methyl-2-pentanone

Concen: 44.243 ug/L

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

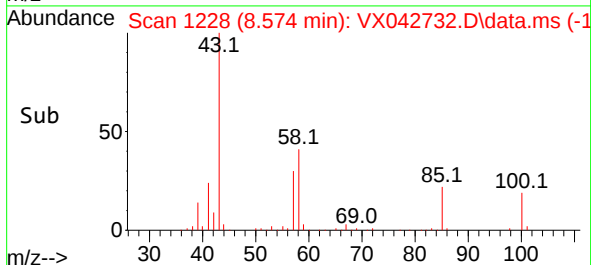
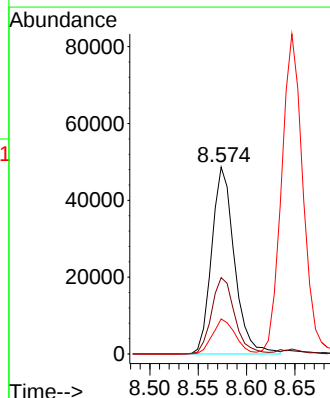
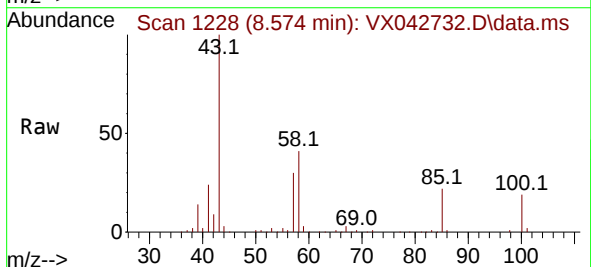
Tgt Ion: 43 Resp: 79428

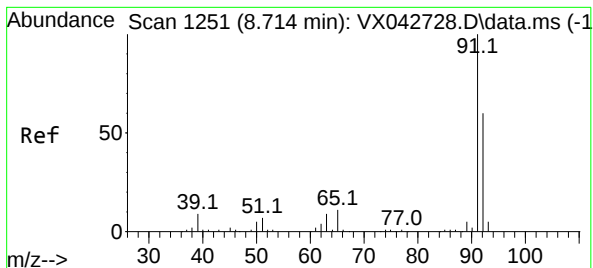
Ion Ratio Lower Upper

43 100

58 41.4 32.4 48.6

100 18.7 13.4 20.0





#42

Toluene

Concen: 41.226 ug/L

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

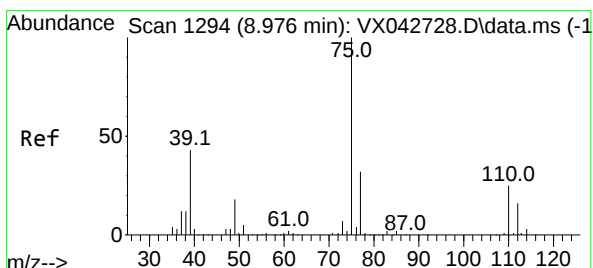
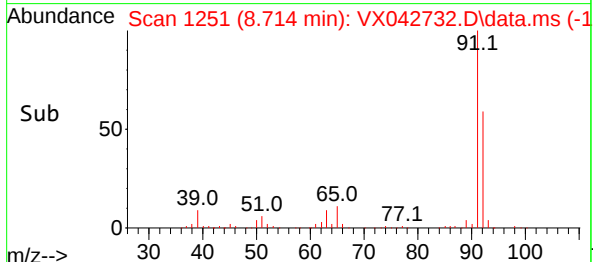
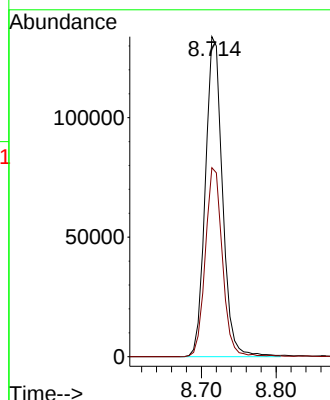
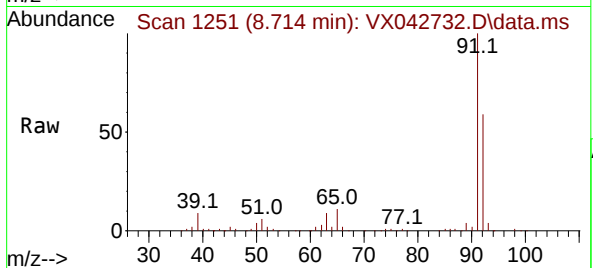
XB509

Tgt Ion: 91 Resp: 213186

Ion Ratio Lower Upper

91 100

92 59.1 41.9 77.7



#44

trans-1,3-Dichloropropene

Concen: 8.295 ug/L

RT: 8.982 min Scan# 1295

Delta R.T. 0.006 min

Lab File: VX042732.D

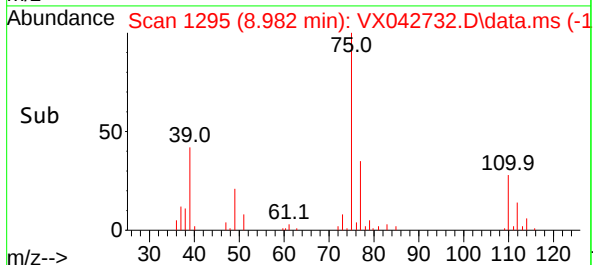
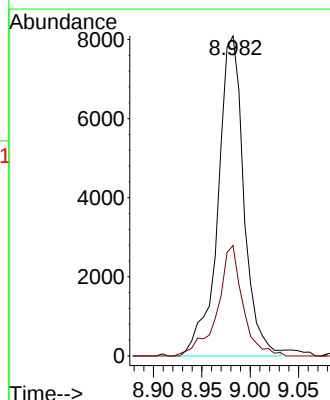
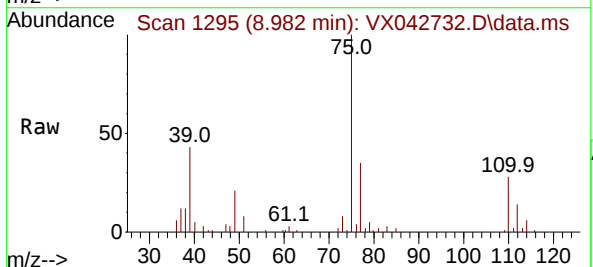
Acq: 30 Jul 2024 12:26

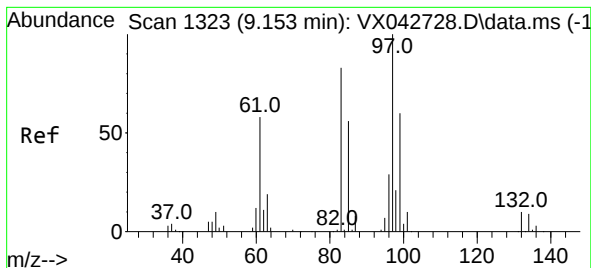
Tgt Ion: 75 Resp: 15060

Ion Ratio Lower Upper

75 100

77 34.5 22.0 40.8





#45

1,1,2-Trichloroethane

Concen: 22.727 ug/L

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

XB509

Tgt Ion: 97 Resp: 29952

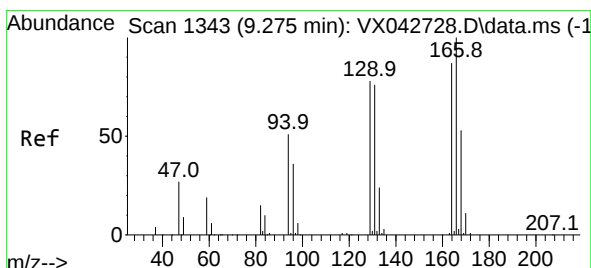
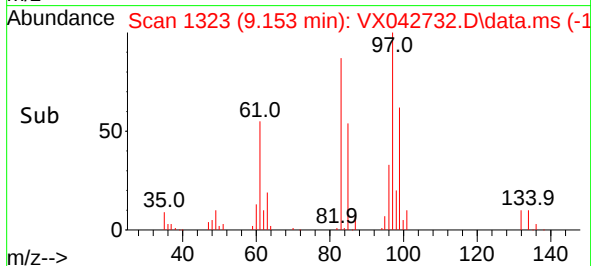
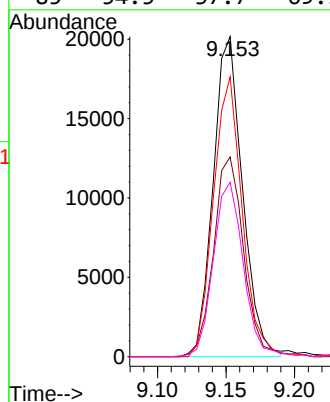
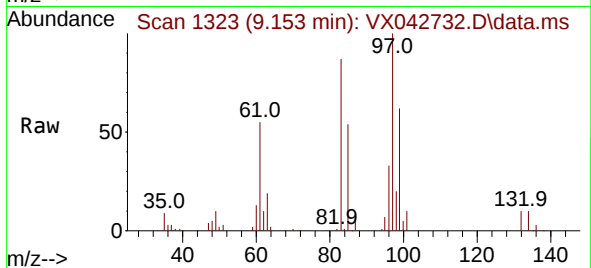
Ion Ratio Lower Upper

97 100

99 62.4 42.6 79.2

83 87.4 59.3 110.1

85 54.5 37.7 69.9



#46

Tetrachloroethene

Concen: 11.207 ug/L

RT: 9.275 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

Tgt Ion:164 Resp: 10252

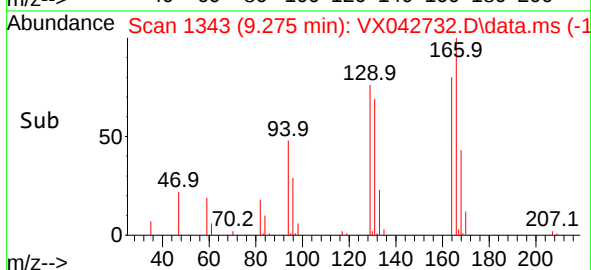
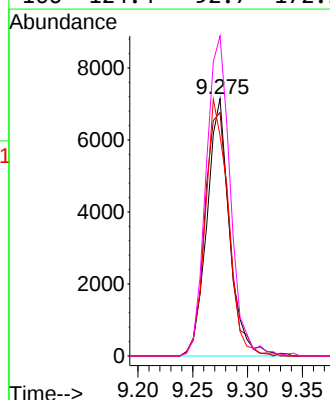
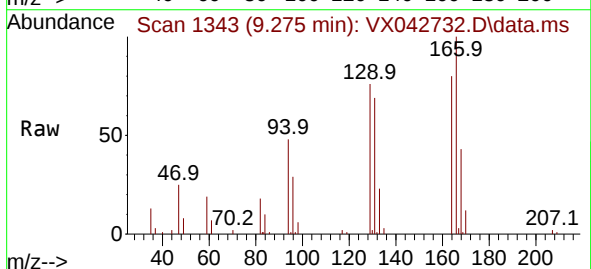
Ion Ratio Lower Upper

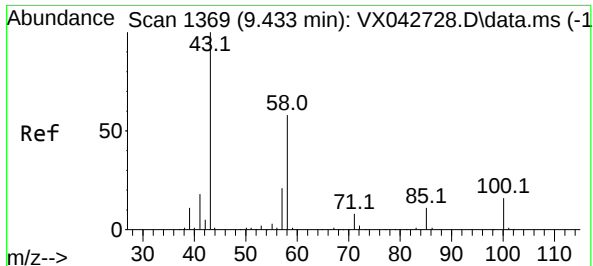
164 100

129 94.6 74.2 137.8

131 85.6 66.9 124.3

166 124.4 92.7 172.1

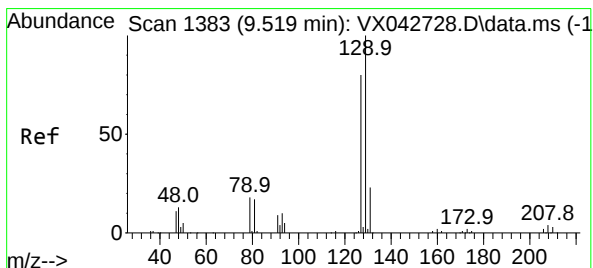
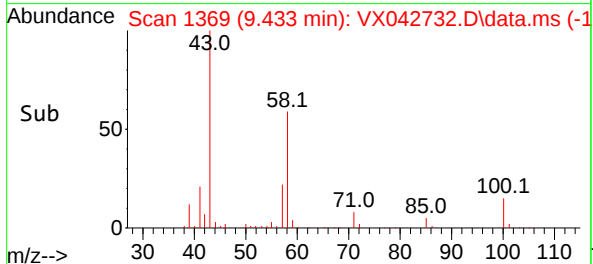
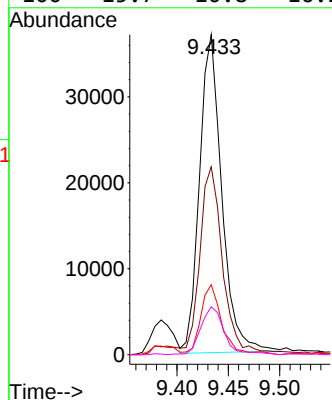
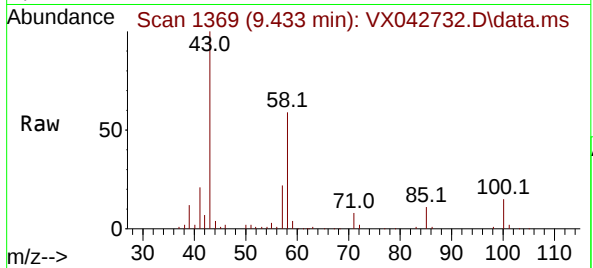




#48
2-Hexanone
Concen: 40.118 ug/L
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

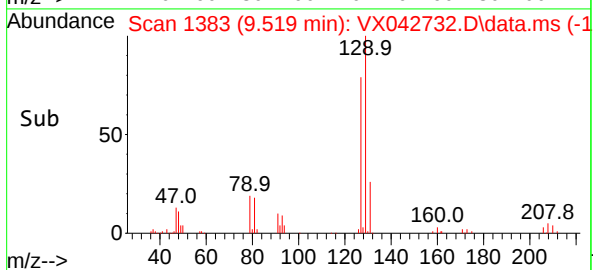
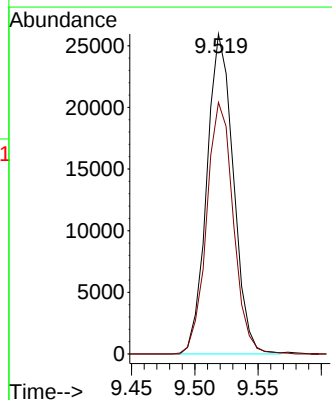
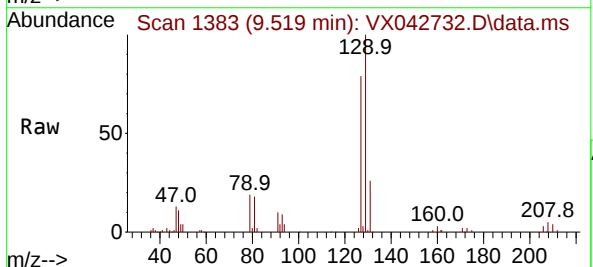
Instrument :
MSVOA_X
ClientSampleId :
XB509

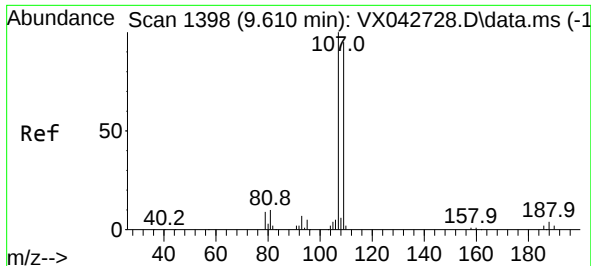
Tgt Ion: 43	Resp: 56014
Ion Ratio	Lower Upper
43 100	
58 54.8	44.9 67.3
57 19.9	15.8 23.6
100 15.7	10.8 16.2



#49
Dibromochloromethane
Concen: 30.810 ug/L
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

Tgt Ion:129	Resp:	37916	
Ion	Ratio	Lower	Upper
129	100		
127	78.6	57.4	106.6





#50

1,2-Dibromoethane

Concen: 22.533 ug/L

RT: 9.610 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

XB509

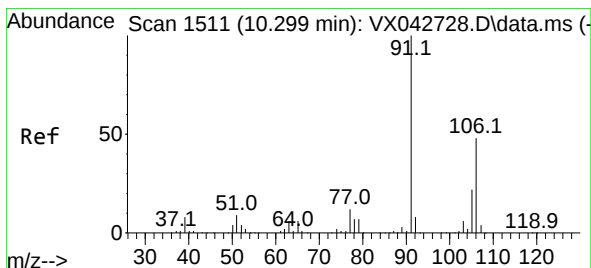
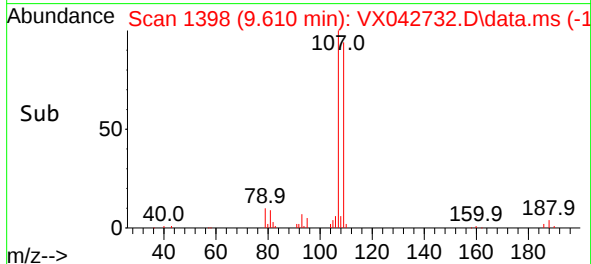
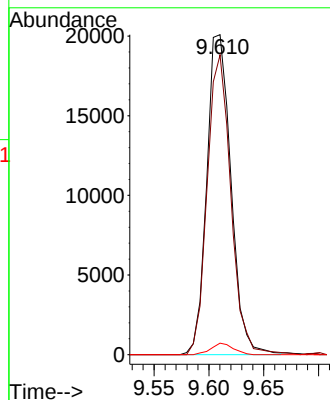
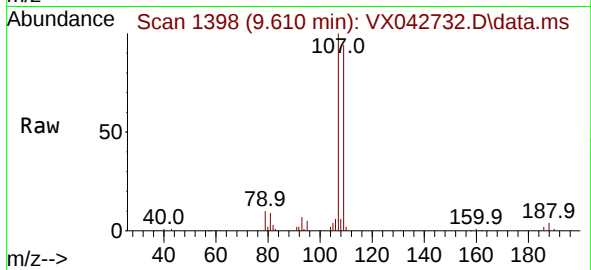
Tgt Ion:107 Resp: 30886

Ion Ratio Lower Upper

107 100

109 93.7 65.4 121.4

188 3.6 2.2 3.2#



#53

m,p-Xylene

Concen: 19.564 ug/L

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX042732.D

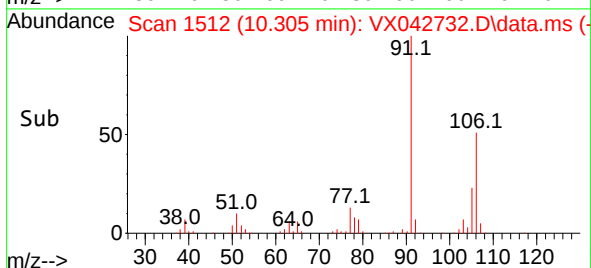
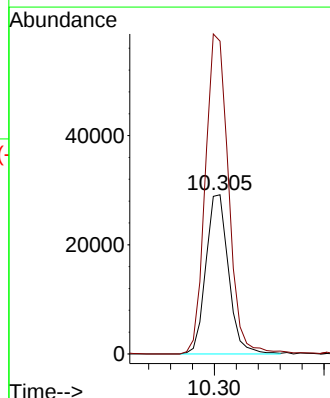
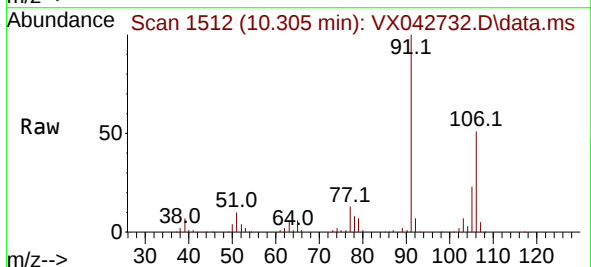
Acq: 30 Jul 2024 12:26

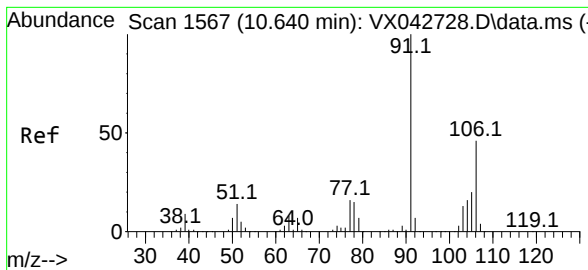
Tgt Ion:106 Resp: 41803

Ion Ratio Lower Upper

106 100

91 196.4 146.8 272.6

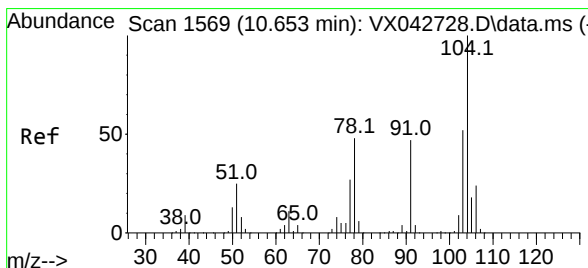
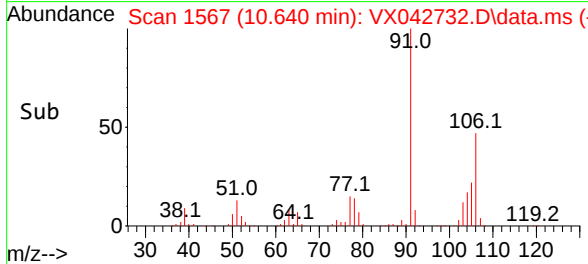
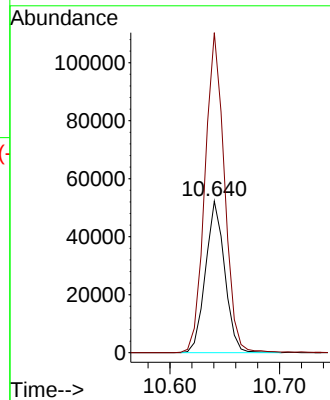
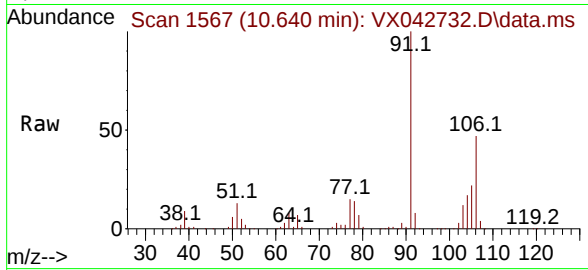




#54
o-Xylene
Concen: 29.956 ug/L
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

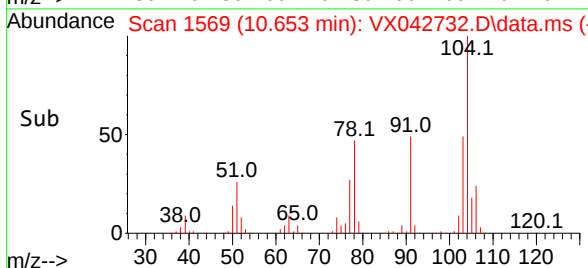
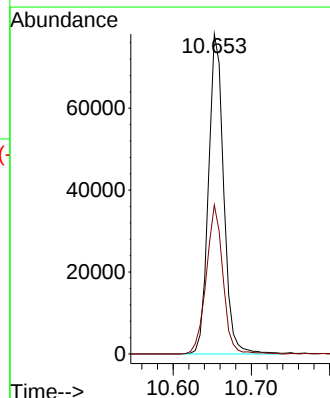
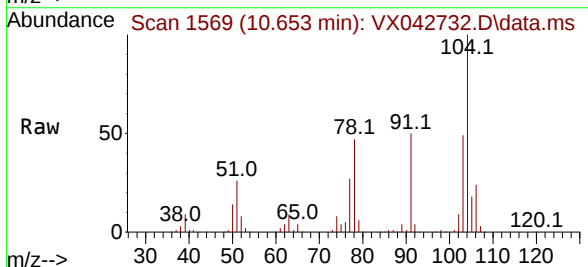
Instrument :
MSVOA_X
ClientSampleId :
XB509

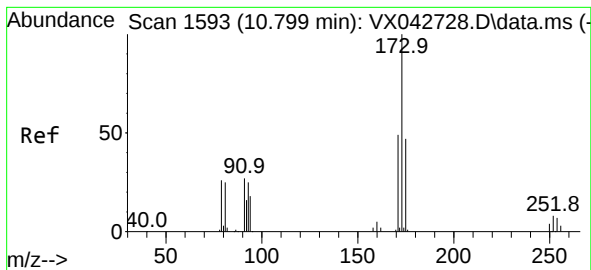
Tgt Ion:106 Resp: 63672
Ion Ratio Lower Upper
106 100
91 211.2 154.6 287.2



#55
Styrene
Concen: 29.738 ug/L
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

Tgt Ion:104 Resp: 105366
Ion Ratio Lower Upper
104 100
78 46.5 32.6 60.5





#59

Bromoform

Concen: 12.384 ug/L

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

Instrument :

MSVOA_X

ClientSampleId :

XB509

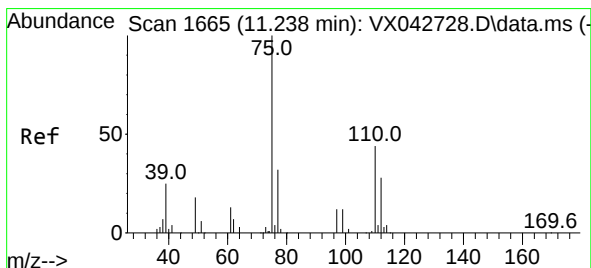
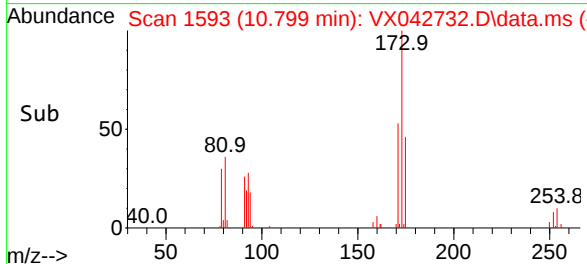
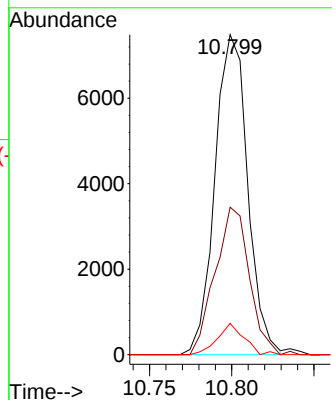
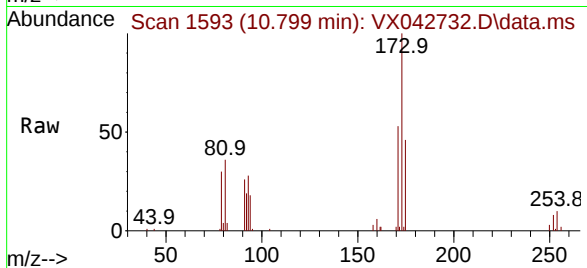
Tgt Ion:173 Resp: 10350

Ion Ratio Lower Upper

173 100

175 48.0 37.4 56.2

254 7.7 6.8 10.2



#61

1,2,3-Trichloropropane

Concen: 20.514 ug/L

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX042732.D

Acq: 30 Jul 2024 12:26

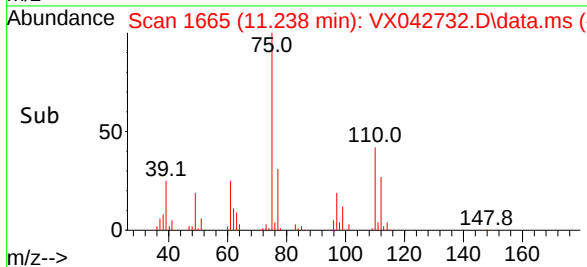
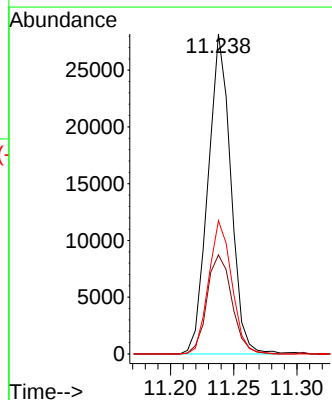
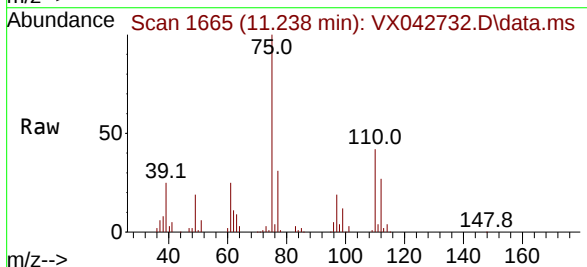
Tgt Ion: 75 Resp: 35344

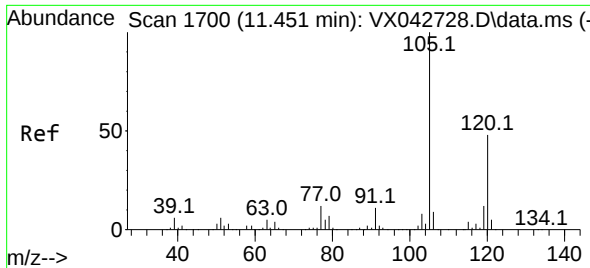
Ion Ratio Lower Upper

75 100

77 33.9 26.2 39.4

110 42.2 33.0 49.4

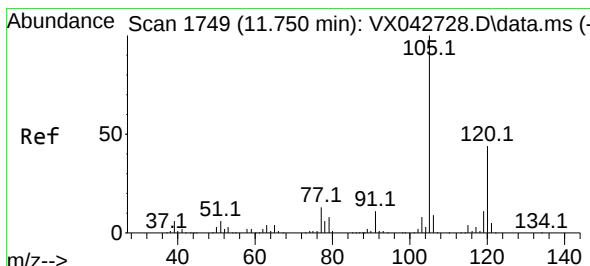
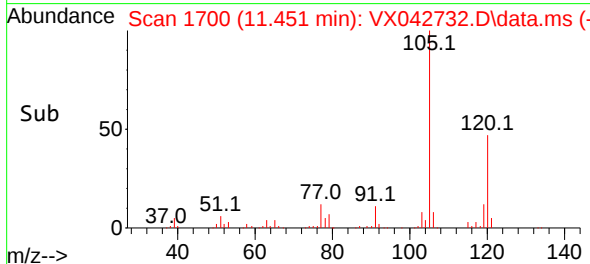
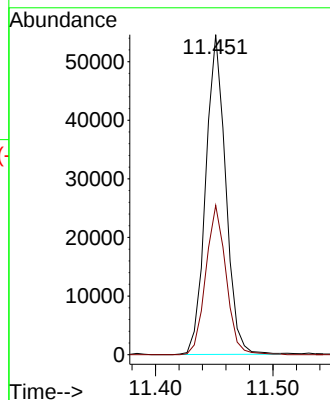
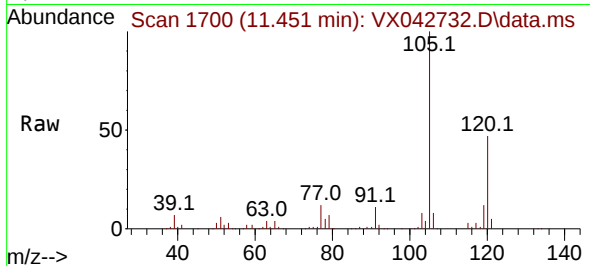




#62
 1,3,5-Trimethylbenzene
 Concen: 13.687 ug/L
 RT: 11.451 min Scan# 1700
 Delta R.T. 0.000 min
 Lab File: VX042732.D
 Acq: 30 Jul 2024 12:26

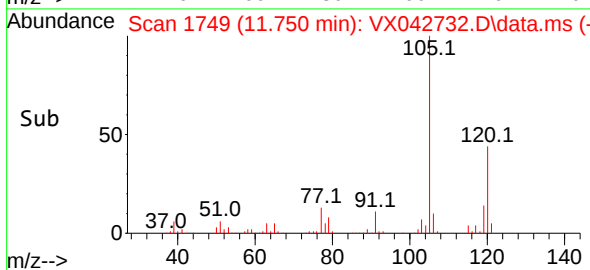
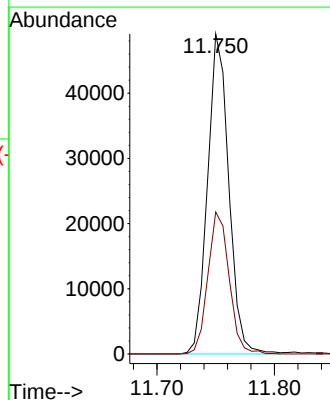
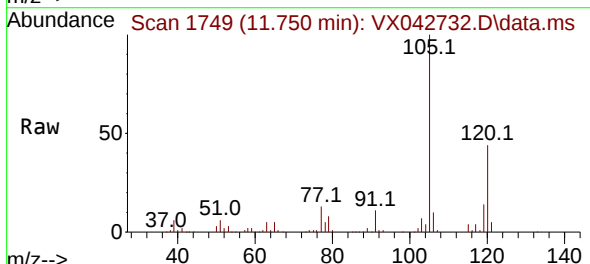
Instrument :
 MSVOA_X
 ClientSampleId :
 XB509

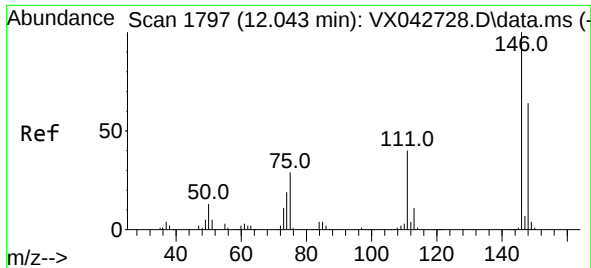
Tgt Ion:105 Resp: 64056
 Ion Ratio Lower Upper
 105 100
 120 47.7 38.2 57.2



#63
 1,2,4-Trimethylbenzene
 Concen: 13.328 ug/L
 RT: 11.750 min Scan# 1749
 Delta R.T. 0.000 min
 Lab File: VX042732.D
 Acq: 30 Jul 2024 12:26

Tgt Ion:105 Resp: 61590
 Ion Ratio Lower Upper
 105 100
 120 44.3 35.2 52.8

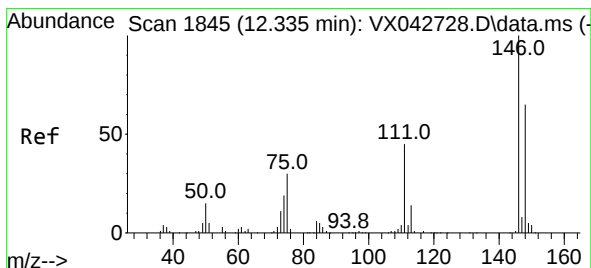
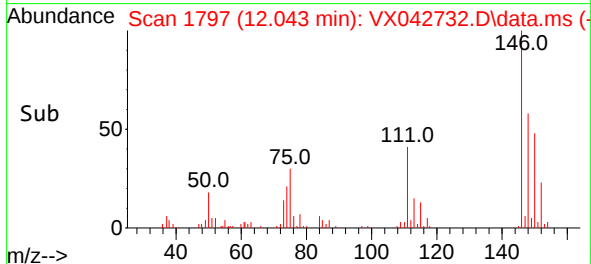
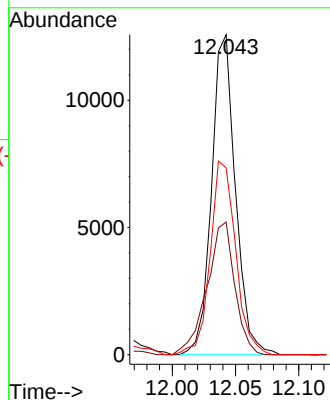
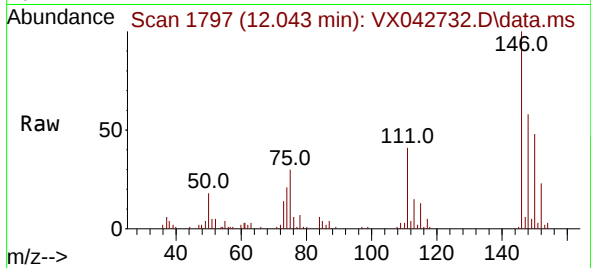




#65
1,4-Dichlorobenzene
Concen: 6.775 ug/L
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

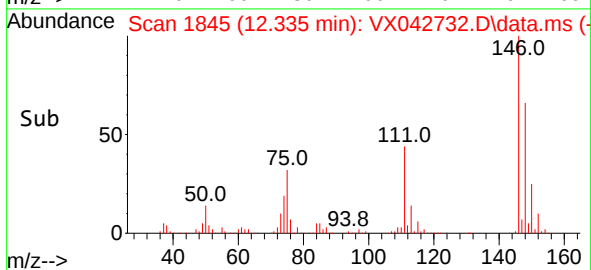
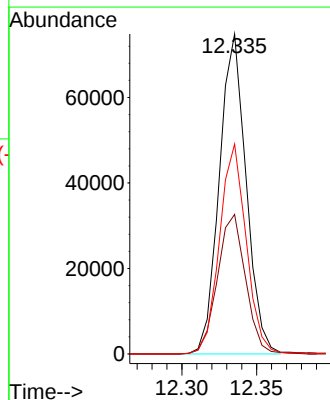
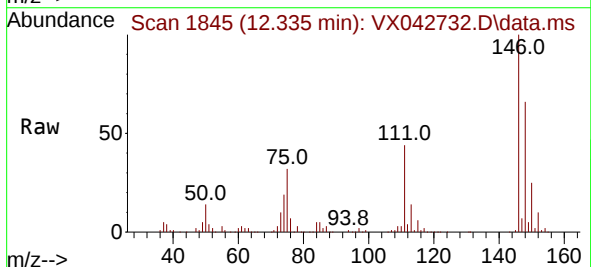
Instrument :
MSVOA_X
ClientSampleId :
XB509

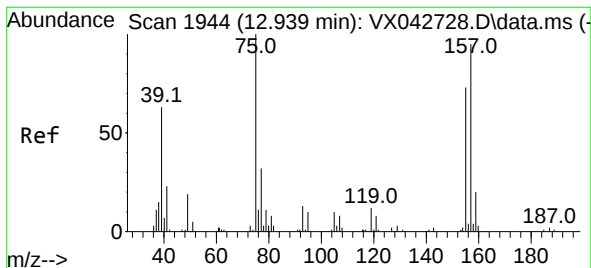
Tgt Ion:146 Resp: 16515
Ion Ratio Lower Upper
146 100
111 41.4 27.9 51.7
148 58.4 44.1 81.9



#67
1,2-Dichlorobenzene
Concen: 38.327 ug/L
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX042732.D
Acq: 30 Jul 2024 12:26

Tgt Ion:146 Resp: 93402
Ion Ratio Lower Upper
146 100
111 43.6 35.3 52.9
148 65.6 52.7 79.1

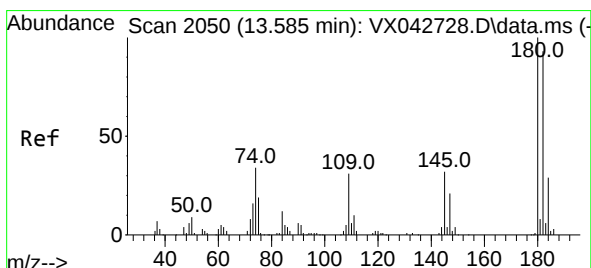
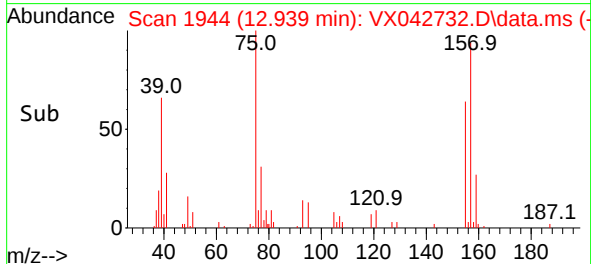
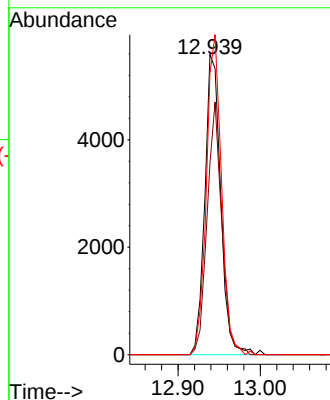
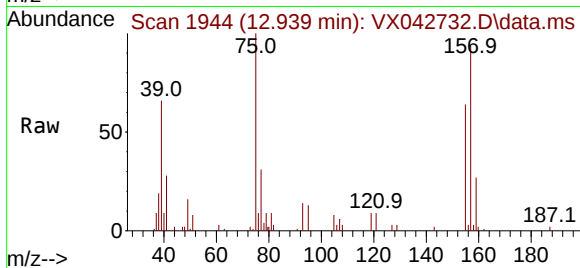




#68
 1,2-Dibromo-3-chloropropane
 Concen: 16.310 ug/L
 RT: 12.939 min Scan# 1944
 Delta R.T. 0.000 min
 Lab File: VX042732.D
 Acq: 30 Jul 2024 12:26

Instrument :
 MSVOA_X
 ClientSampleId :
 XB509

Tgt Ion: 75 Resp: 7486
 Ion Ratio Lower Upper
 75 100
 155 63.7 65.1 97.7#
 157 93.8 85.8 128.6



#70
 1,2,4-trichlorobenzene
 Concen: 16.761 ug/L
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.006 min
 Lab File: VX042732.D
 Acq: 30 Jul 2024 12:26

Tgt Ion:180 Resp: 22064
 Ion Ratio Lower Upper
 180 100
 182 95.9 77.0 115.4
 145 34.1 27.0 40.6

