

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW062024\
 Data File : VW029265.D
 Acq On : 20 Jun 2024 18:06
 Operator : SY/MD
 Sample : P2964-22
 Misc : 5.00g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jun 21 01:34:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM061824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 21 01:26:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	305462	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	285699	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	137342	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.362	65	79134	18.717	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.880%
7) Chloroethane-d5	2.893	69	60966	17.075	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	68.320%
11) 1,1-Dichloroethene-d2	4.015	65	40165	19.675	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	78.720%
21) 2-Butanone-d5	7.075	46	60850	48.105	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.220%
24) Chloroform-d	7.648	84	188629	20.701	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	82.800%
26) 1,2-Dichloroethane-d4	8.307	65	109155	20.864	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	83.440%
32) Benzene-d6	8.276	84	357747	20.615	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	82.480%
36) 1,2-Dichloropropane-d6	9.270	67	116882	21.189	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	84.760%
41) Toluene-d8	10.318	98	338549	22.051	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.200%
43) trans-1,3-Dichloroprop...	10.574	79	47032	21.158	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	84.640%
47) 2-Hexanone-d5	10.922	63	43269	50.037	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.080%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	99547	22.674	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.680%
66) 1,2-Dichlorobenzene-d4	13.848	152	107748	22.602	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.400%
Target Compounds						
					Qvalue	
13) Acetone	4.118	43	96793	90.042	ug/L	96
16) Methylene chloride	4.917	84	117144	21.810	ug/L	97
17) trans-1,2-Dichloroethene	5.423	96	328582	83.595	ug/L	94
18) Methyl tert-butyl Ether	5.423	73	544631	86.605	ug/L	98
19) 1,1-Dichloroethane	6.215	63	204465	24.085	ug/L	98
20) cis-1,2-Dichloroethene	7.167	96	197849	45.645	ug/L	99
22) 2-Butanone	7.167	43	298648	202.669	ug/L	100
25) Chloroform	7.679	83	228934	27.616	ug/L	99
27) 1,2-Dichloroethane	8.398	62	356630	58.331	ug/L	99
33) Benzene	8.319	78	1382241	80.520	ug/L	100
34) Trichloroethene	9.087	95	406997	88.867	ug/L	95
35) Methylcyclohexane	9.367	83	2855	0.396	ug/L #	21
37) 1,2-Dichloropropane	9.367	63	412785	85.575	ug/L	98
39) cis-1,3-Dichloropropene	10.068	75	314042	46.057	ug/L	97
40) 4-Methyl-2-pentanone	10.209	43	262316	87.739	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	221940	38.548	ug/L	98
46) Tetrachloroethene	10.861	164	79399	24.800	ug/L	88
49) Dibromochloromethane	11.129	129	134343	38.255	ug/L	97
50) 1,2-Dibromoethane	11.233	107	226528	75.117	ug/L	97

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Quant Title : SFAM01.0
QLast Update : Fri Jun 21 01:26:21 2024
Response via : Initial Calibration

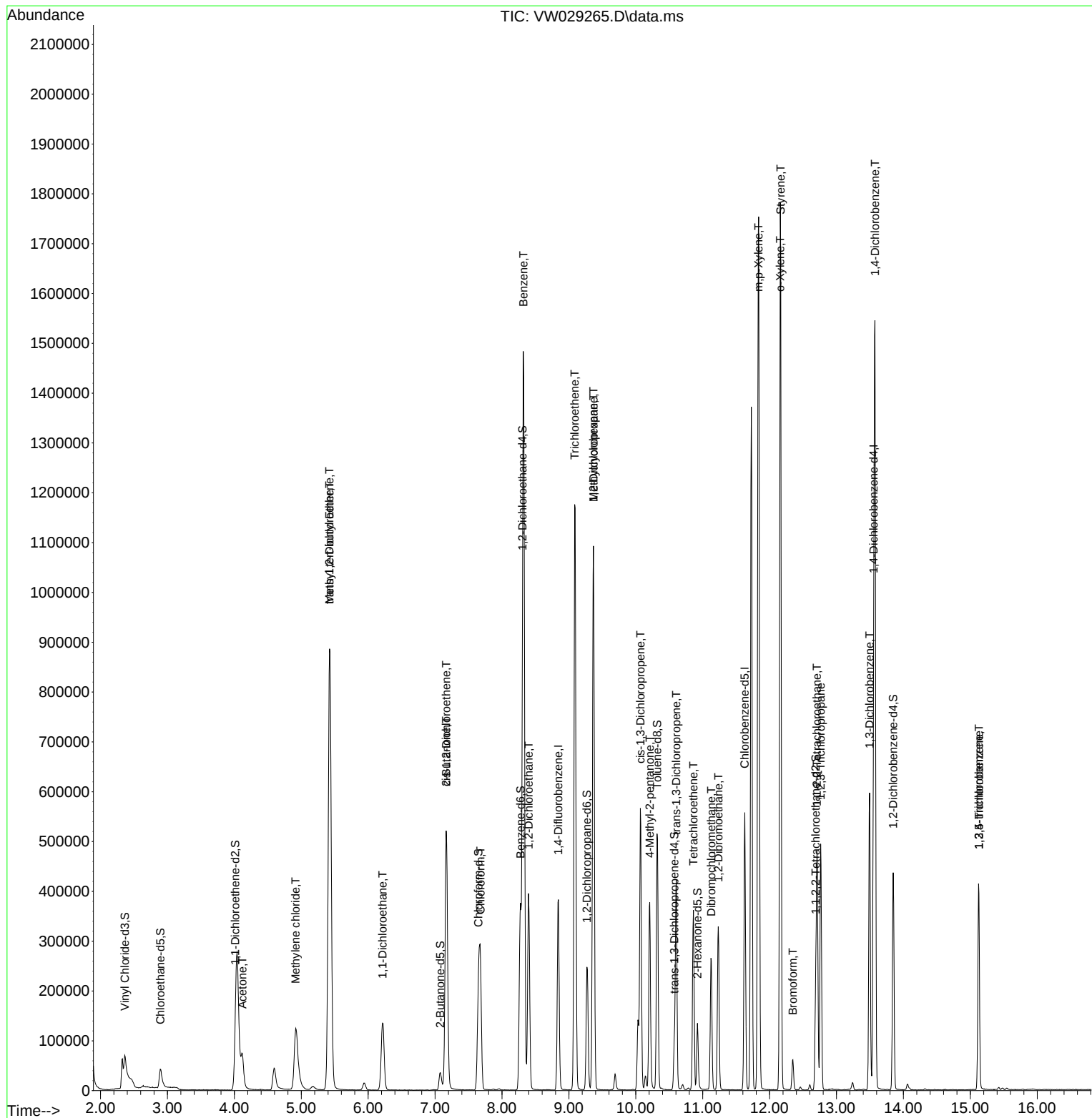
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	11.836	106	530511	72.503	ug/L	95
54) o-Xylene	12.160	106	458943	67.112	ug/L	94
55) Styrene	12.166	104	23083	1.936	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	225558	54.278	ug/L	95
59) Bromoform	12.349	173	27110	14.402	ug/L	98
61) 1,2,3-Trichloropropane	12.763	75	200813	67.035	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	222688	28.119	ug/L	93
65) 1,4-Dichlorobenzene	13.574	146	548641	65.112	ug/L	99
69) 1,3,5-Trichlorobenzene	15.129	180	123806	23.164	ug/L	99
70) 1,2,4-trichlorobenzene	15.129	180	123806	28.575	ug/L	95

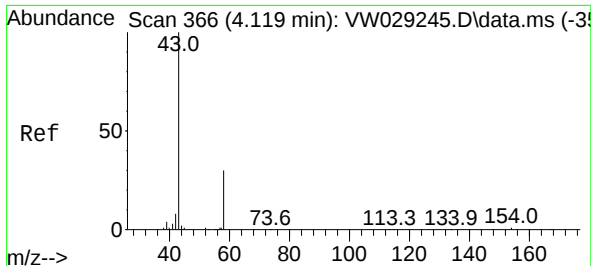
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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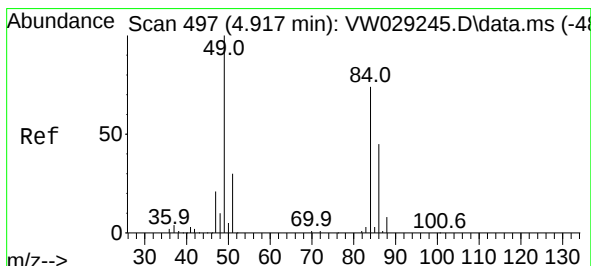
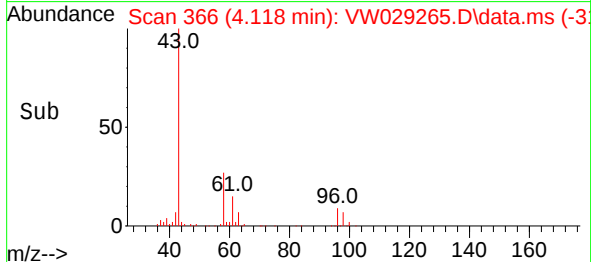
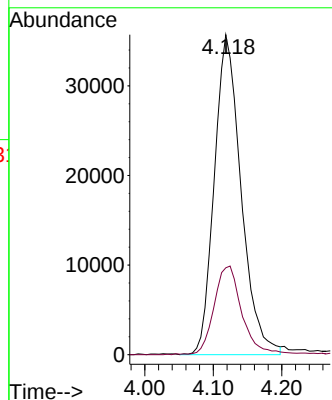
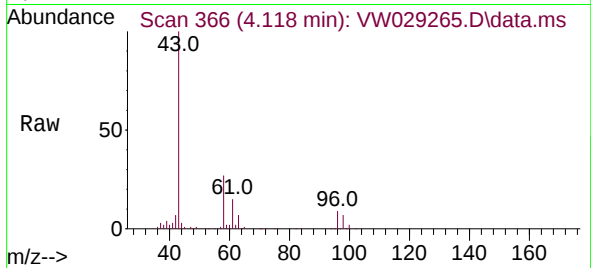




#13
Acetone
Concen: 90.042 ug/L
RT: 4.118 min Scan# 366
Delta R.T. -0.000 min
Lab File: VW029265.D
Acq: 20 Jun 2024 18:06

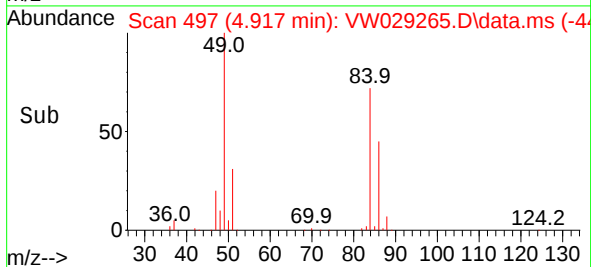
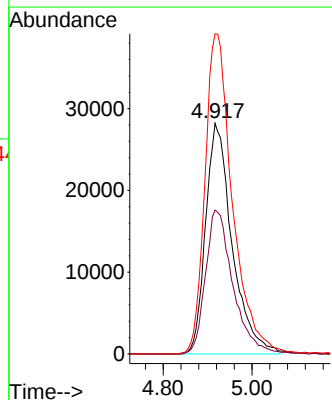
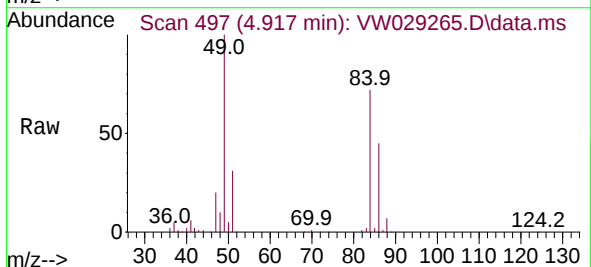
Instrument :
MSVOA_W
ClientSampleId :

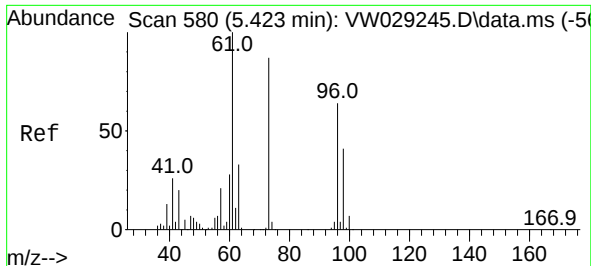
Tgt Ion: 43 Resp: 96793
Ion Ratio Lower Upper
43 100
58 28.3 0.0 61.4



#16
Methylene chloride
Concen: 21.810 ug/L
RT: 4.917 min Scan# 497
Delta R.T. -0.000 min
Lab File: VW029265.D
Acq: 20 Jun 2024 18:06

Tgt Ion: 84 Resp: 117144
Ion Ratio Lower Upper
84 100
86 62.4 41.4 77.0
49 138.8 95.7 177.7





#17

trans-1,2-Dichloroethene

Concen: 83.595 ug/L

RT: 5.423 min Scan# 580

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

ClientSampleId :

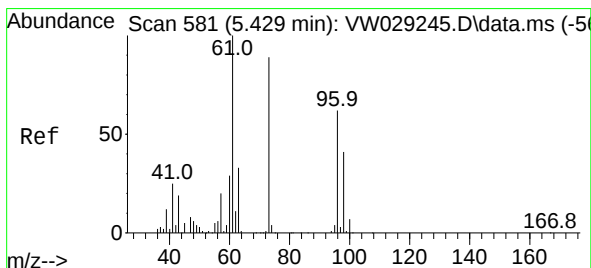
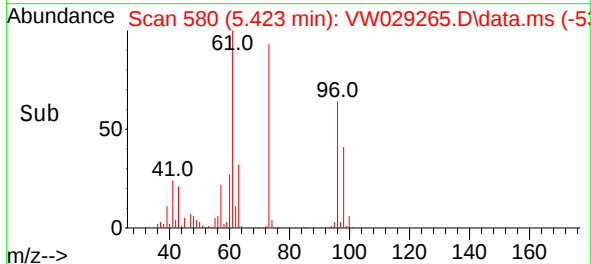
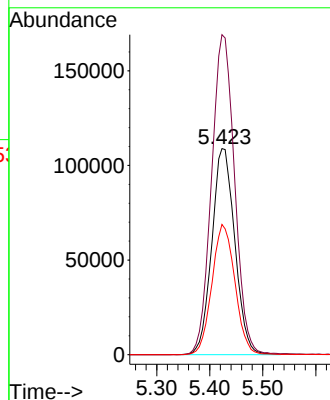
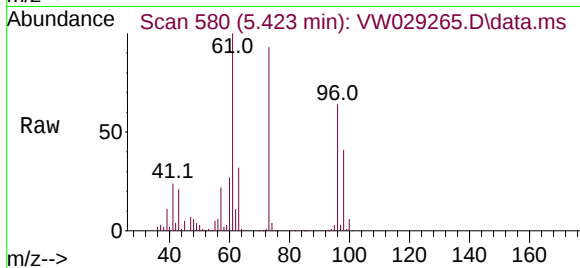
Tgt Ion: 96 Resp: 328582

Ion Ratio Lower Upper

96 100

61 155.2 101.5 188.5

98 63.2 43.3 80.3



#18

Methyl tert-butyl Ether

Concen: 86.605 ug/L

RT: 5.423 min Scan# 580

Delta R.T. -0.006 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

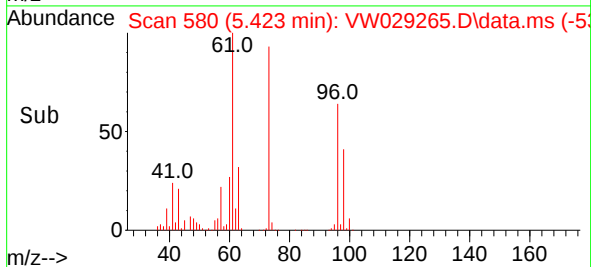
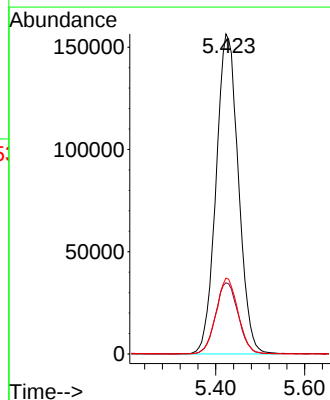
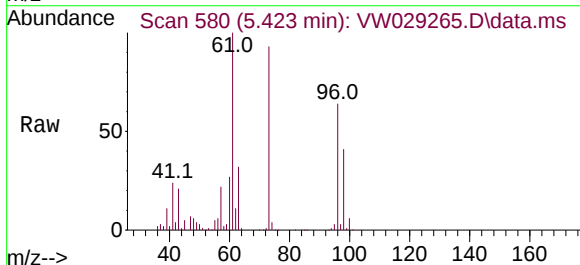
Tgt Ion: 73 Resp: 544631

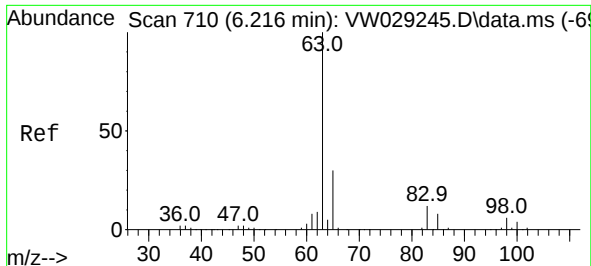
Ion Ratio Lower Upper

73 100

43 22.4 19.5 29.3

57 23.2 18.4 27.6

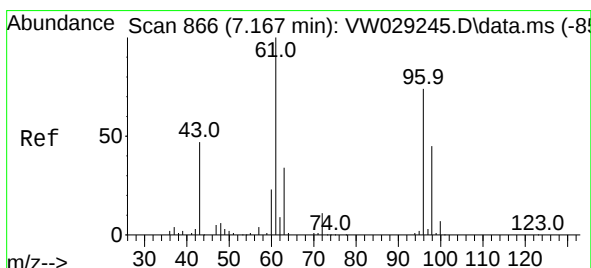
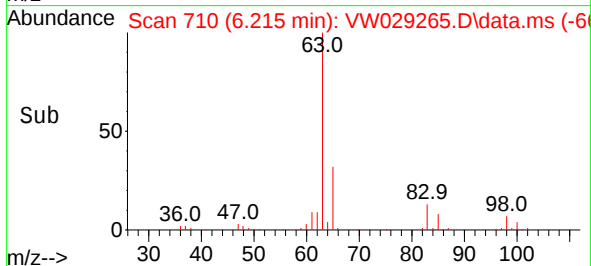
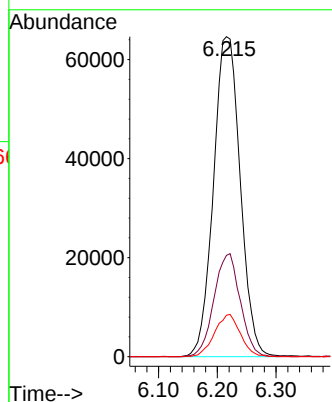
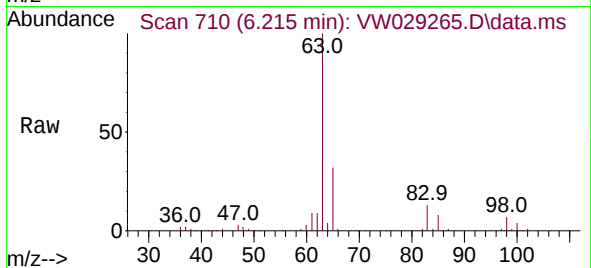




#19
1,1-Dichloroethane
Concen: 24.085 ug/L
RT: 6.215 min Scan# 710
Delta R.T. -0.000 min
Lab File: VW029265.D
Acq: 20 Jun 2024 18:06

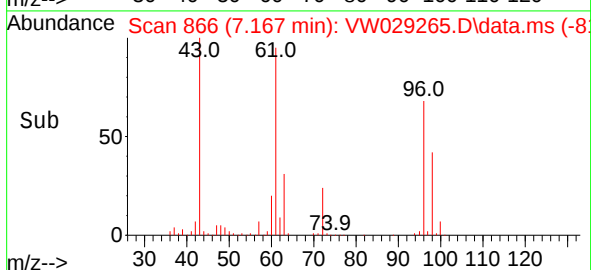
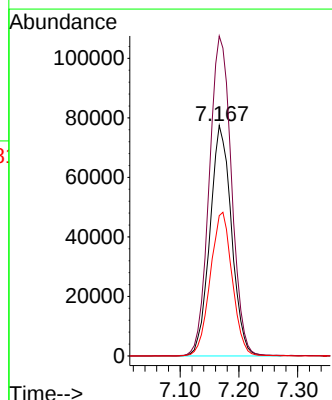
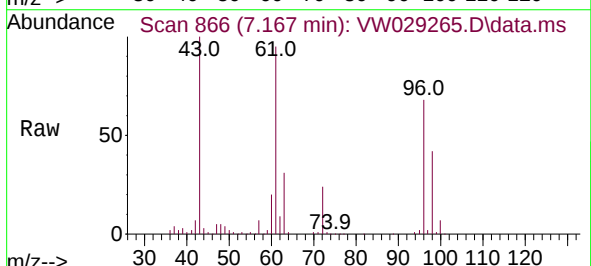
Instrument :
MSVOA_W
ClientSampleId :

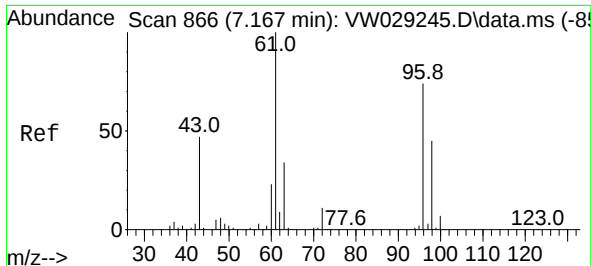
Tgt Ion: 63 Resp: 204465
Ion Ratio Lower Upper
63 100
65 31.7 23.4 43.4
83 12.9 8.9 16.5



#20
cis-1,2-Dichloroethene
Concen: 45.645 ug/L
RT: 7.167 min Scan# 866
Delta R.T. -0.000 min
Lab File: VW029265.D
Acq: 20 Jun 2024 18:06

Tgt Ion: 96 Resp: 197849
Ion Ratio Lower Upper
96 100
61 138.8 97.8 181.6
98 60.9 43.0 79.8





#22

2-Butanone

Concen: 202.669 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

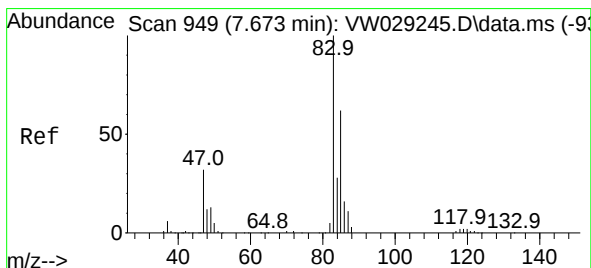
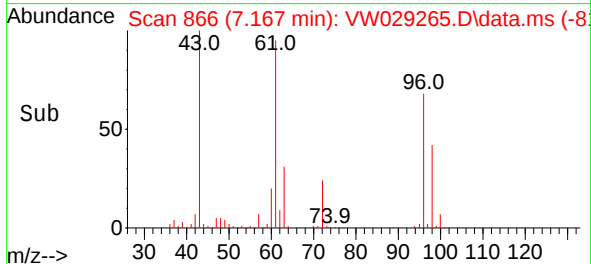
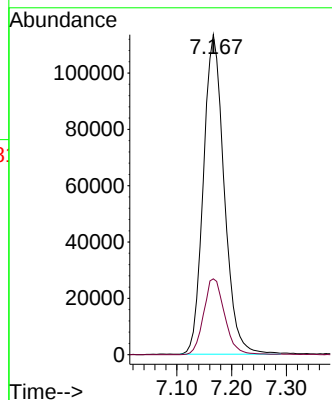
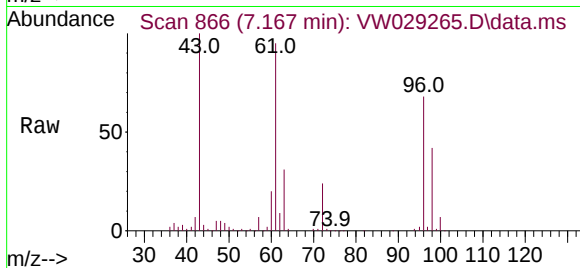
ClientSampleId :

Tgt Ion: 43 Resp: 298648

Ion Ratio Lower Upper

43 100

72 24.0 11.9 35.7



#25

Chloroform

Concen: 27.616 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.006 min

Lab File: VW029265.D

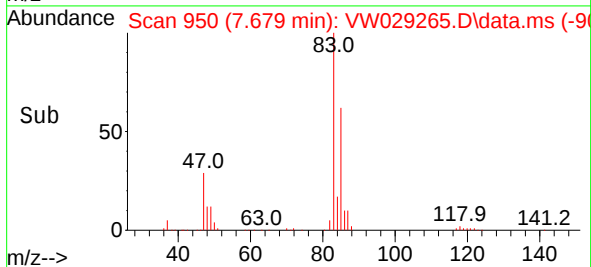
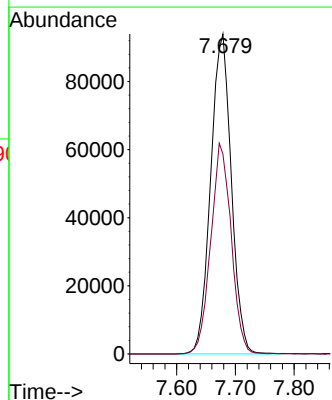
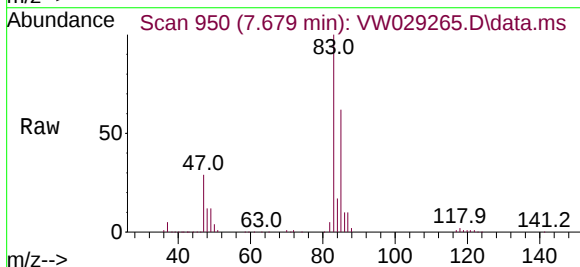
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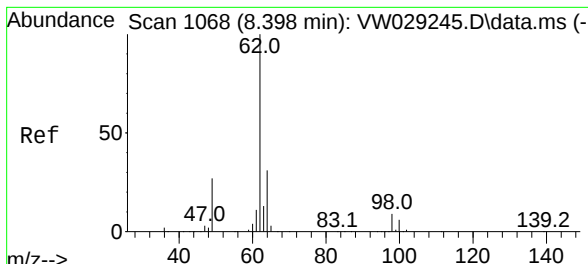
Tgt Ion: 83 Resp: 228934

Ion Ratio Lower Upper

83 100

85 62.4 44.4 82.4

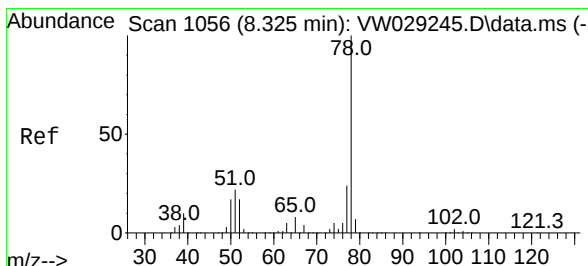
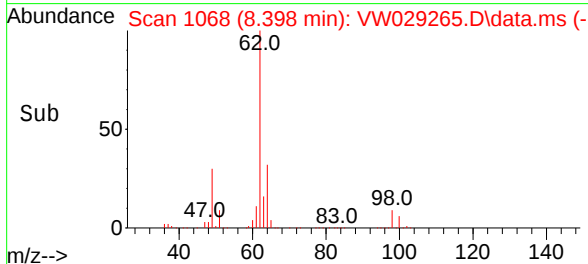
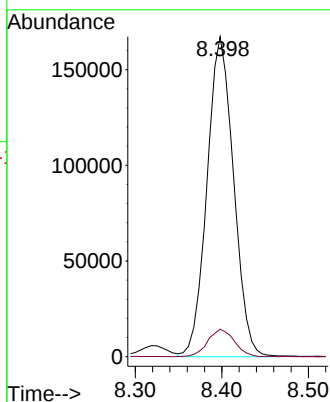
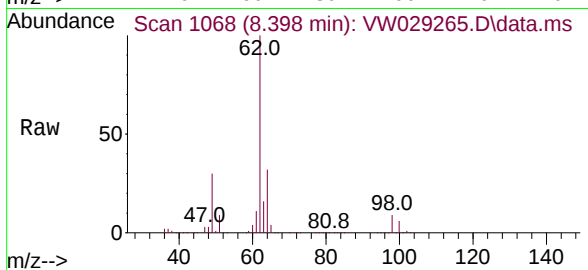




#27
 1,2-Dichloroethane
 Concen: 58.331 ug/L
 RT: 8.398 min Scan# 1068
 Delta R.T. -0.000 min
 Lab File: VW029265.D
 Acq: 20 Jun 2024 18:06

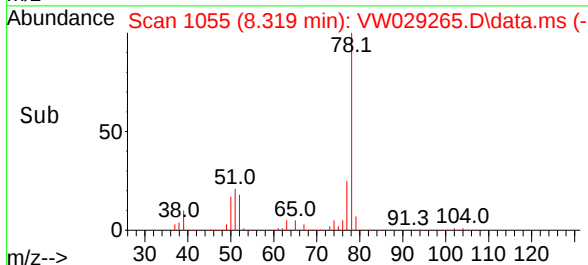
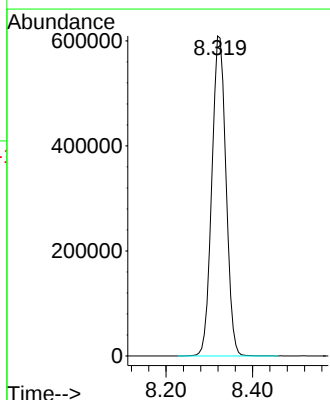
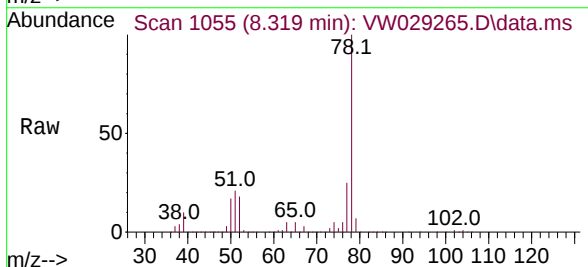
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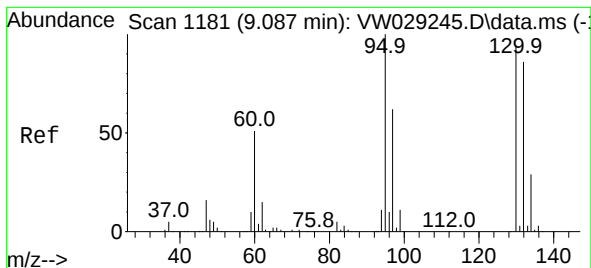
Tgt Ion: 62 Resp: 356630
 Ion Ratio Lower Upper
 62 100
 98 8.6 6.6 10.0



#33
 Benzene
 Concen: 80.520 ug/L
 RT: 8.319 min Scan# 1055
 Delta R.T. -0.006 min
 Lab File: VW029265.D
 Acq: 20 Jun 2024 18:06

Tgt Ion: 78 Resp: 1382241





#34

Trichloroethene

Concen: 88.867 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 95 Resp: 406997

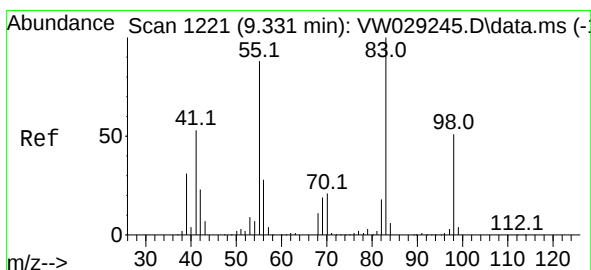
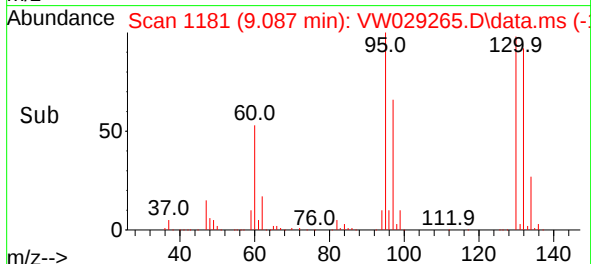
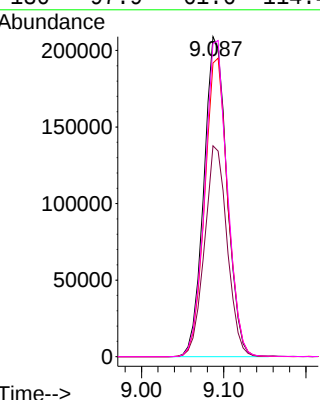
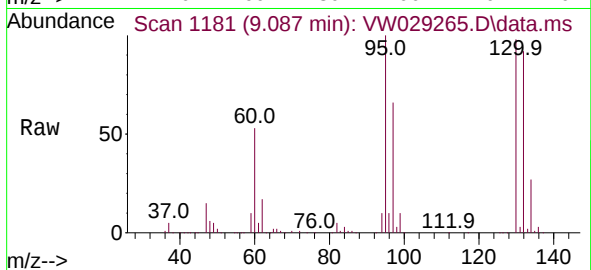
Ion Ratio Lower Upper

95 100

97 65.9 45.7 84.9

132 91.7 66.4 123.4

130 97.9 61.6 114.4



#35

Methylcyclohexane

Concen: 0.396 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. 0.036 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

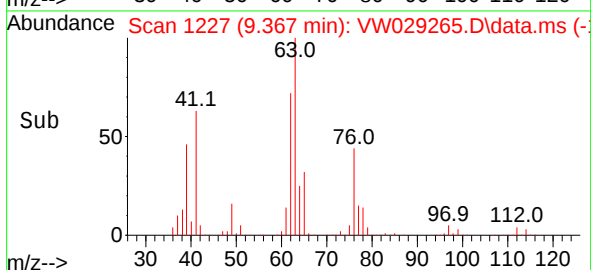
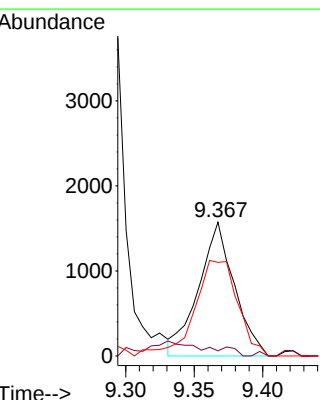
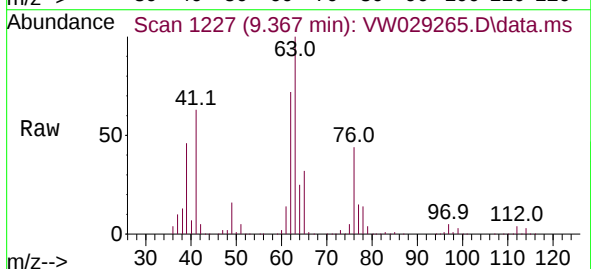
Tgt Ion: 83 Resp: 2855

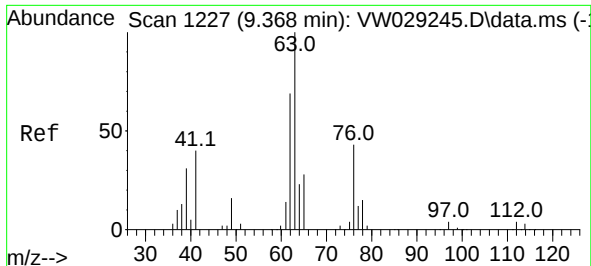
Ion Ratio Lower Upper

83 100

55 2.5 69.5 104.3#

98 84.5 38.0 57.0#





#37

1,2-Dichloropropane

Concen: 85.575 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

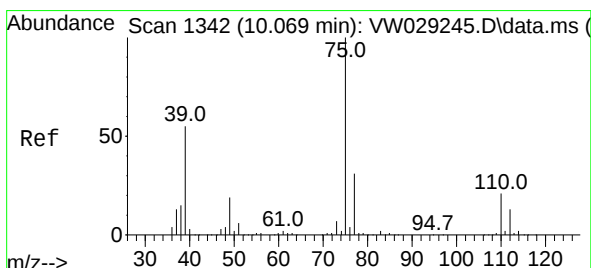
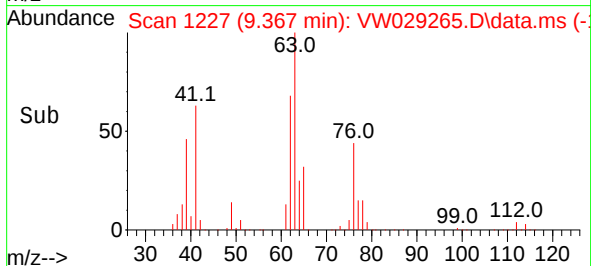
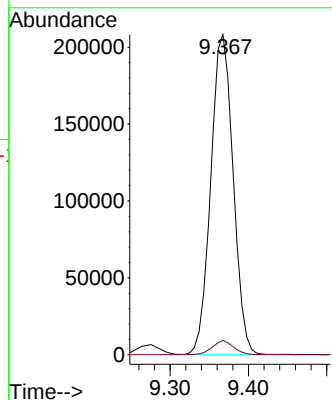
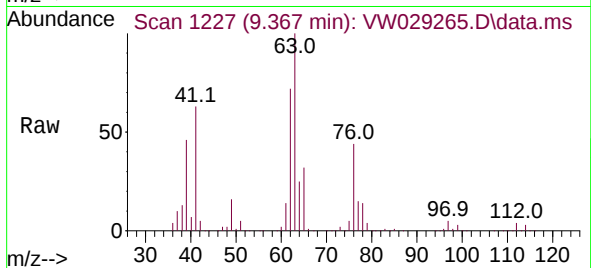
ClientSampleId :

Tgt Ion: 63 Resp: 412785

Ion Ratio Lower Upper

63 100

112 4.2 3.8 5.6



#39

cis-1,3-Dichloropropene

Concen: 46.057 ug/L

RT: 10.068 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VW029265.D

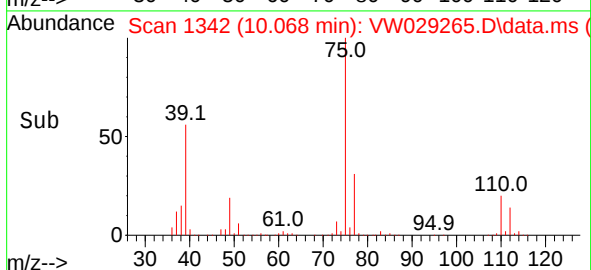
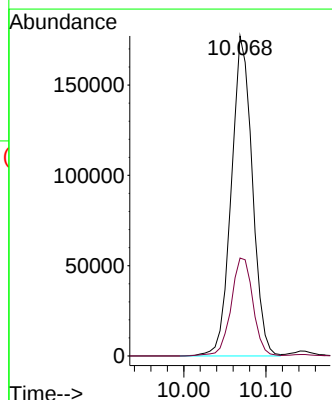
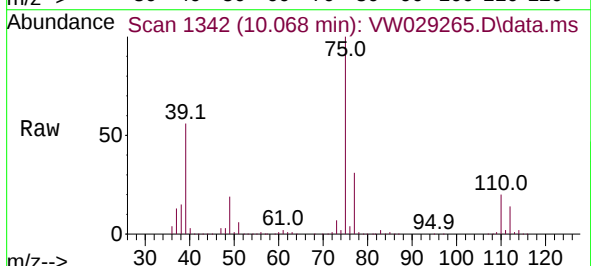
Acq: 20 Jun 2024 18:06

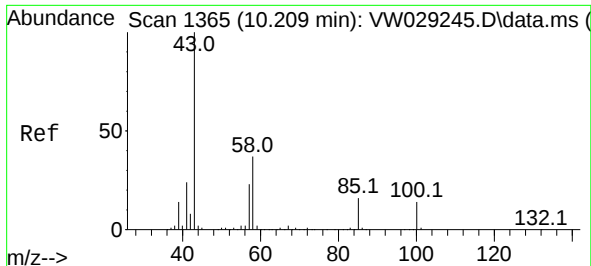
Tgt Ion: 75 Resp: 314042

Ion Ratio Lower Upper

75 100

77 30.6 22.7 42.1





#40

4-Methyl-2-pentanone

Concen: 87.739 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

ClientSampleId :

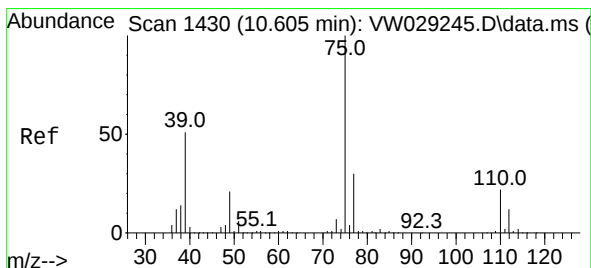
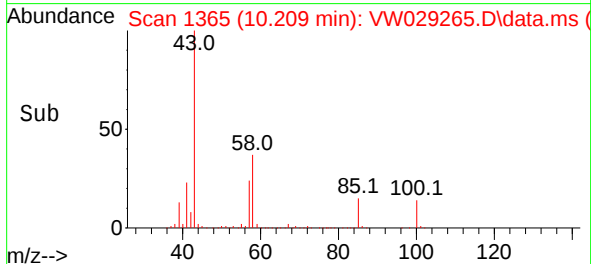
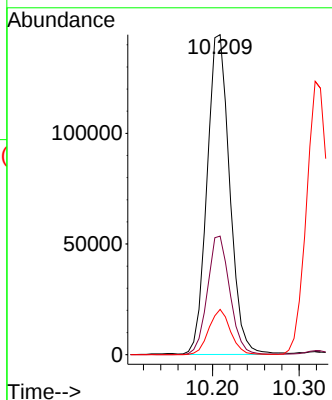
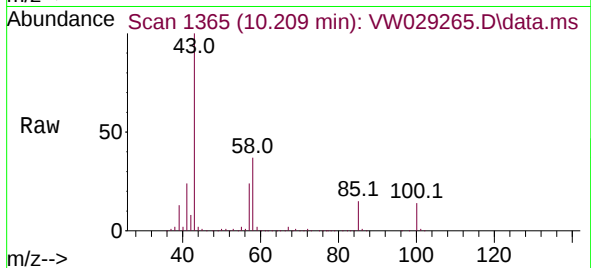
Tgt Ion: 43 Resp: 262316

Ion Ratio Lower Upper

43 100

58 36.9 28.2 42.4

100 13.6 11.0 16.4



#44

trans-1,3-Dichloropropene

Concen: 38.548 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. -0.000 min

Lab File: VW029265.D

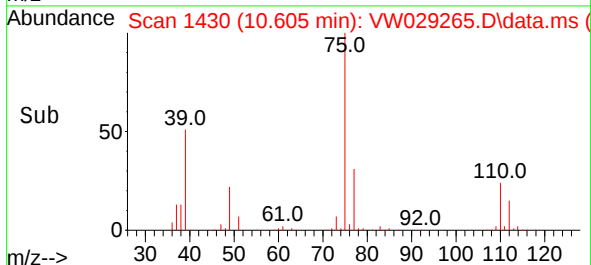
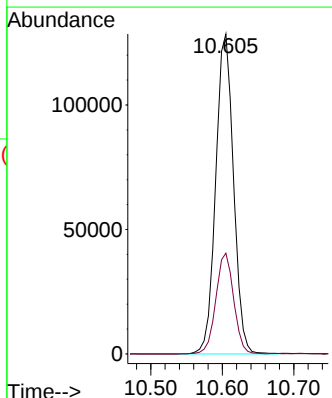
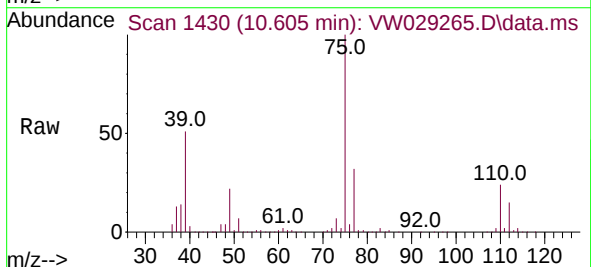
Acq: 20 Jun 2024 18:06

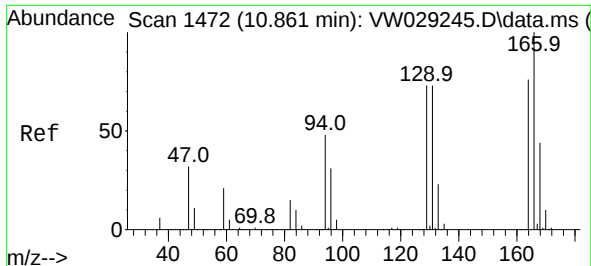
Tgt Ion: 75 Resp: 221940

Ion Ratio Lower Upper

75 100

77 31.5 22.7 42.1





#46

Tetrachloroethene

Concen: 24.800 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. -0.000 min

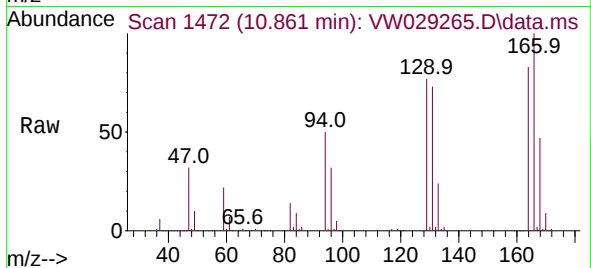
Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:164 Resp: 79399

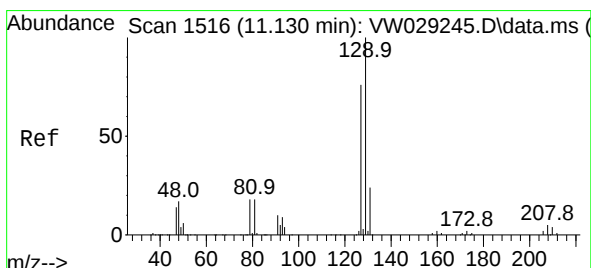
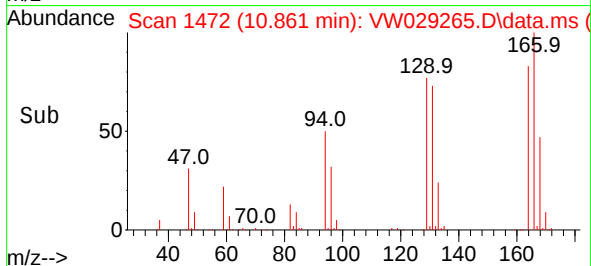
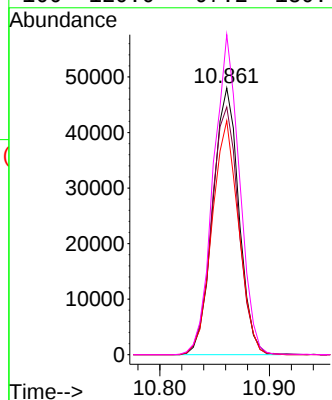
Ion Ratio Lower Upper

164 100

129 92.8 68.5 127.3

131 87.7 71.8 133.4

166 120.0 97.2 180.4



#49

Dibromochloromethane

Concen: 38.255 ug/L

RT: 11.129 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VW029265.D

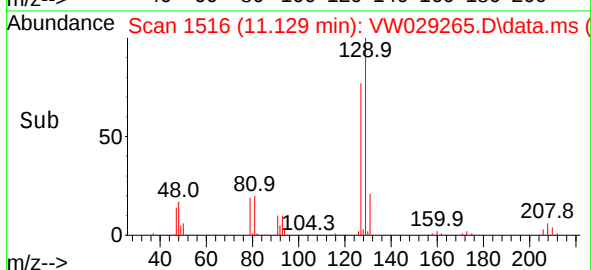
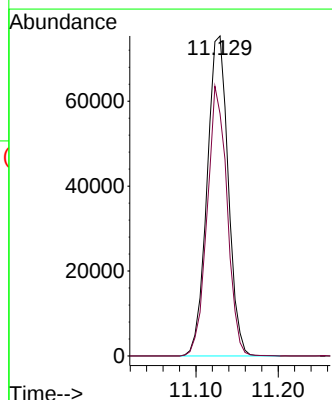
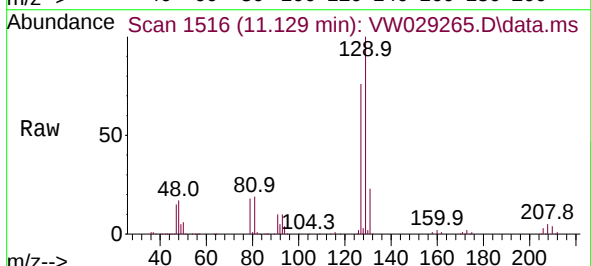
Acq: 20 Jun 2024 18:06

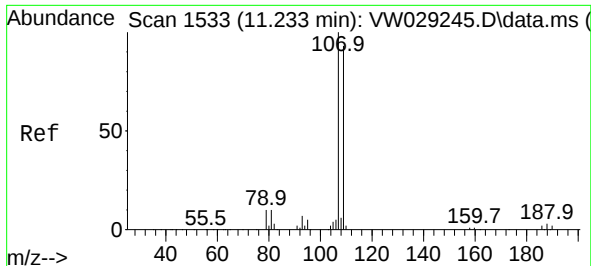
Tgt Ion:129 Resp: 134343

Ion Ratio Lower Upper

129 100

127 75.7 54.8 101.8





#50

1,2-Dibromoethane

Concen: 75.117 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

ClientSampleId :

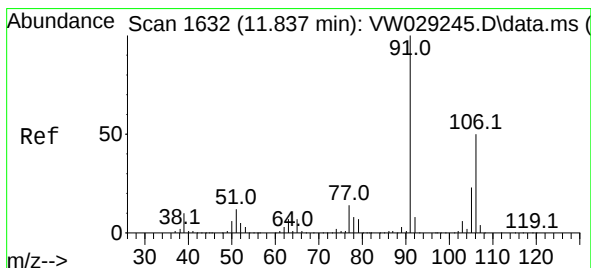
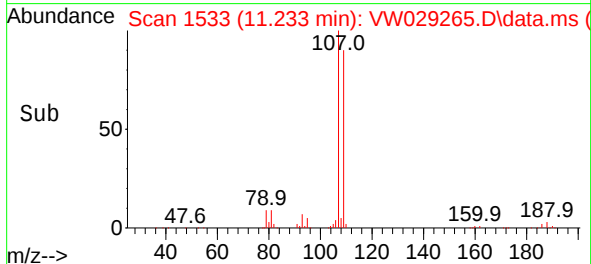
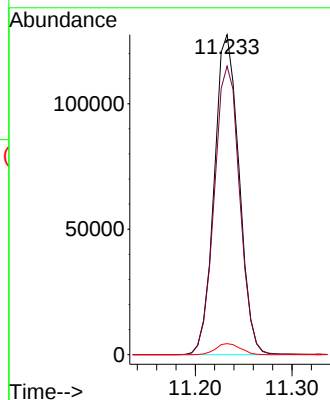
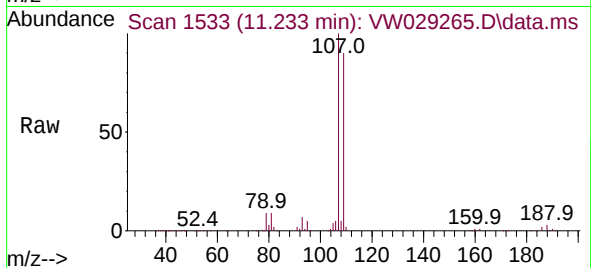
Tgt Ion:107 Resp: 226528

Ion Ratio Lower Upper

107 100

109 90.2 65.5 121.6

188 3.5 2.6 4.0



#53

m,p-Xylene

Concen: 72.503 ug/L

RT: 11.836 min Scan# 1632

Delta R.T. -0.000 min

Lab File: VW029265.D

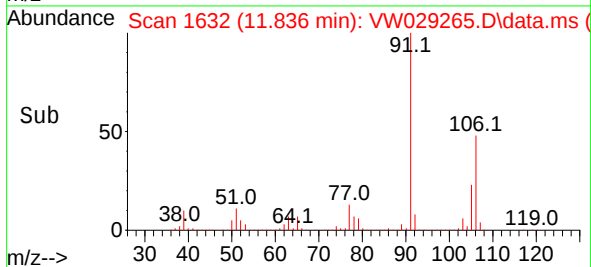
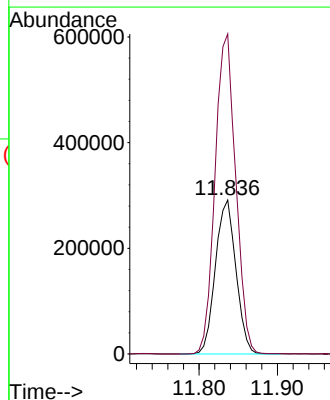
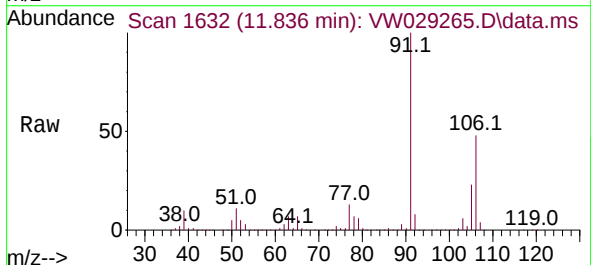
Acq: 20 Jun 2024 18:06

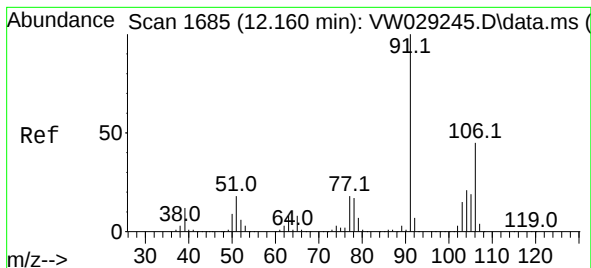
Tgt Ion:106 Resp: 530511

Ion Ratio Lower Upper

106 100

91 207.9 140.5 260.9





#54

o-Xylene

Concen: 67.112 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

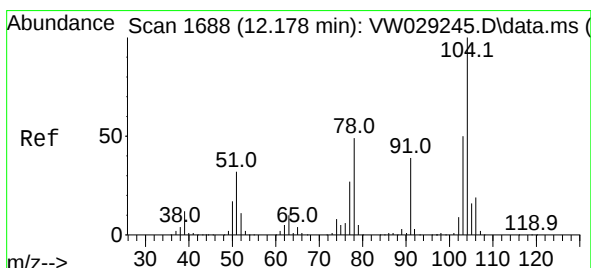
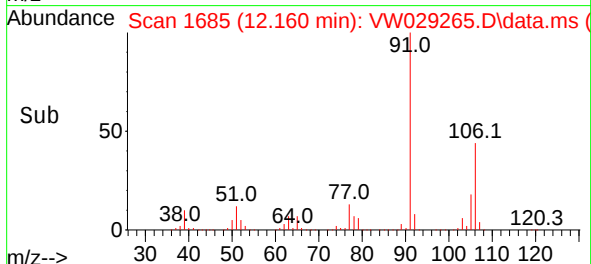
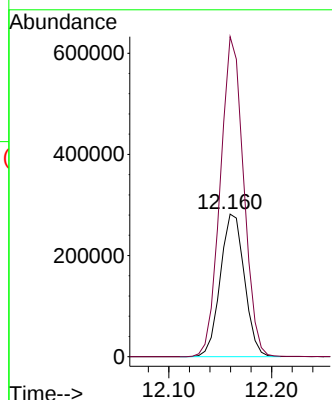
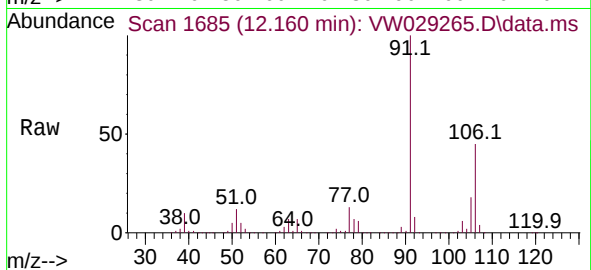
ClientSampleId :

Tgt Ion:106 Resp: 458943

Ion Ratio Lower Upper

106 100

91 224.4 149.9 278.5



#55

Styrene

Concen: 1.936 ug/L

RT: 12.166 min Scan# 1686

Delta R.T. -0.012 min

Lab File: VW029265.D

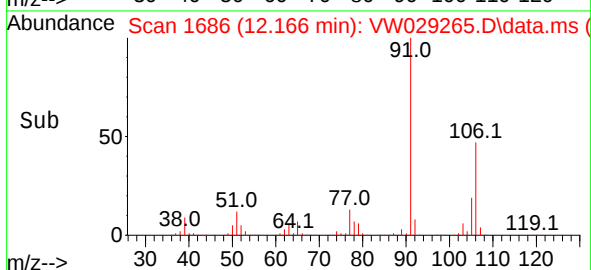
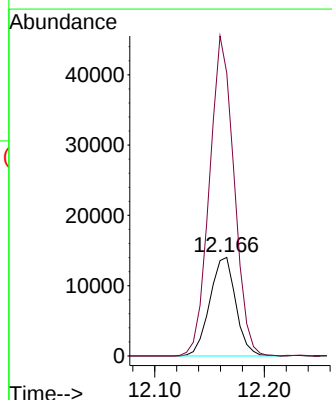
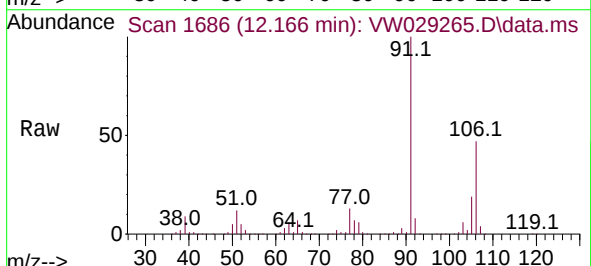
Acq: 20 Jun 2024 18:06

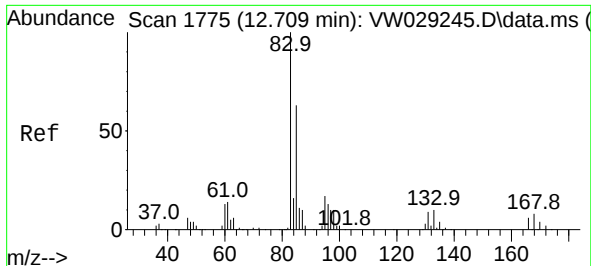
Tgt Ion:104 Resp: 23083

Ion Ratio Lower Upper

104 100

78 287.1 35.4 65.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 54.278 ug/L

RT: 12.708 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

ClientSampleId :

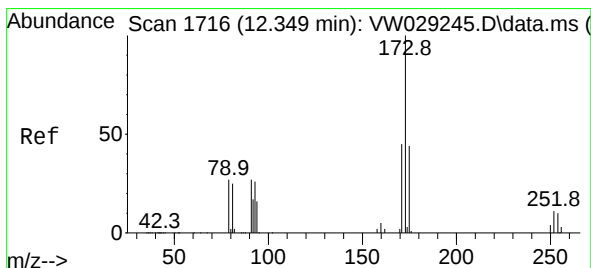
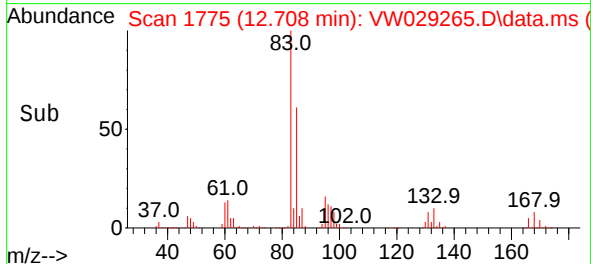
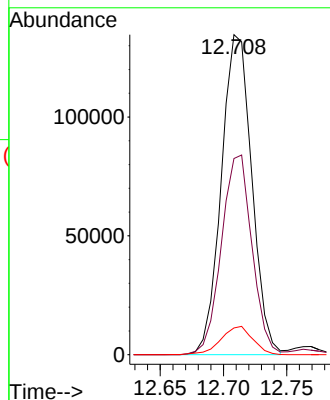
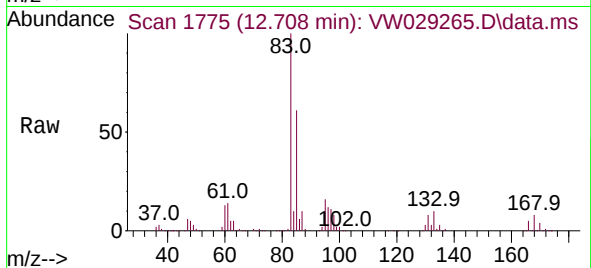
Tgt Ion: 83 Resp: 225558

Ion Ratio Lower Upper

83 100

85 61.3 45.8 85.0

131 8.4 7.8 11.6



#59

Bromoform

Concen: 14.402 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

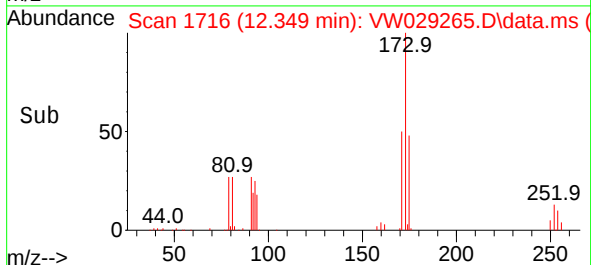
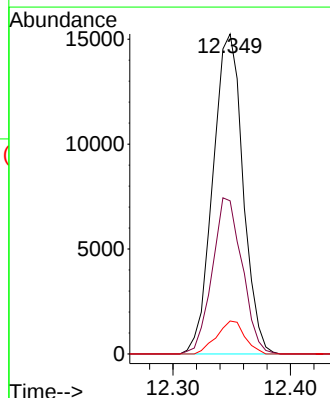
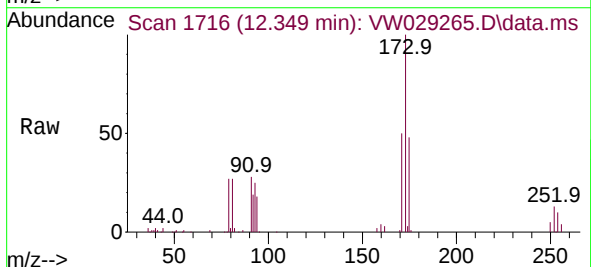
Tgt Ion:173 Resp: 27110

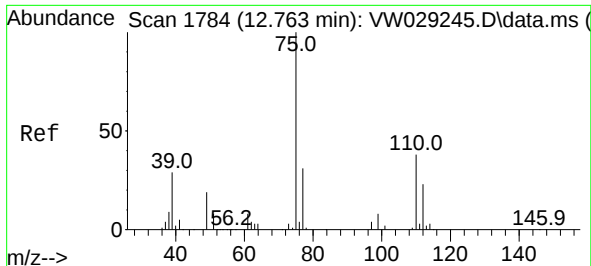
Ion Ratio Lower Upper

173 100

175 48.5 37.8 56.8

254 9.6 7.8 11.6





#61

1,2,3-Trichloropropane

Concen: 67.035 ug/L

RT: 12.763 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

ClientSampleId :

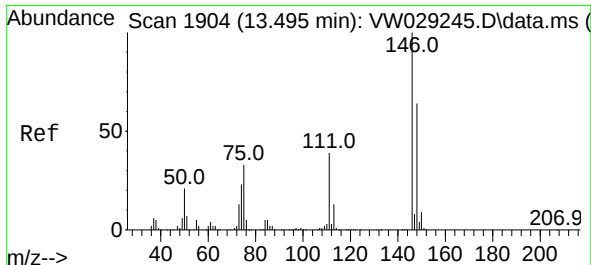
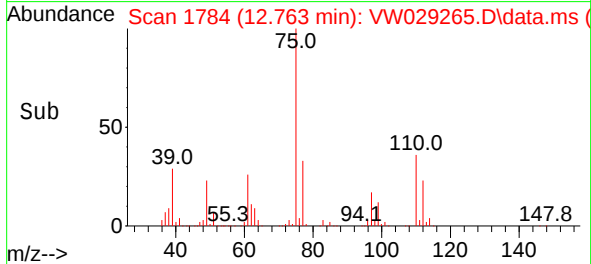
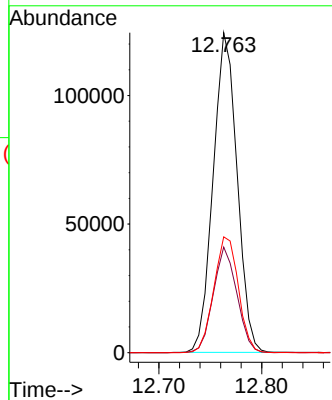
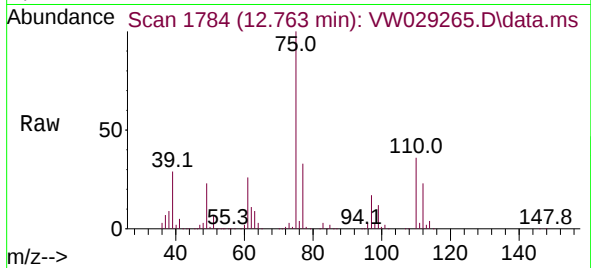
Tgt Ion: 75 Resp: 200813

Ion Ratio Lower Upper

75 100

77 32.6 26.6 39.8

110 37.2 29.5 44.3



#64

1,3-Dichlorobenzene

Concen: 28.119 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

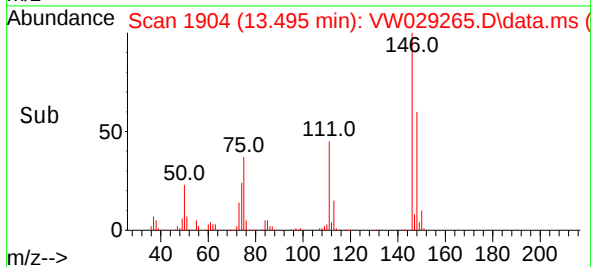
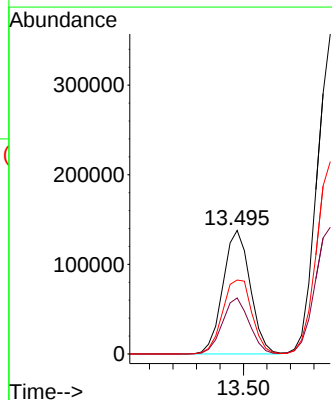
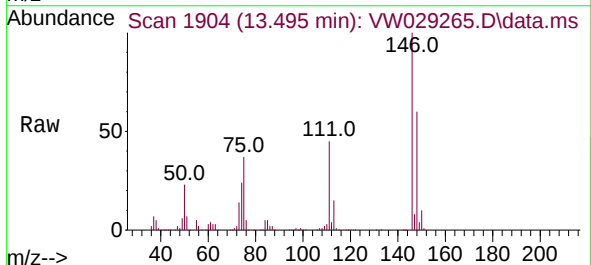
Tgt Ion:146 Resp: 222688

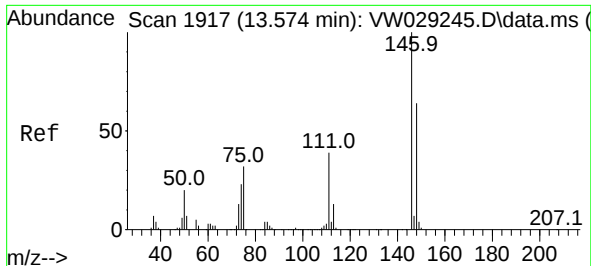
Ion Ratio Lower Upper

146 100

111 45.3 33.0 61.2

148 59.8 47.5 88.1





#65

1,4-Dichlorobenzene

Concen: 65.112 ug/L

RT: 13.574 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Instrument :

MSVOA_W

ClientSampleId :

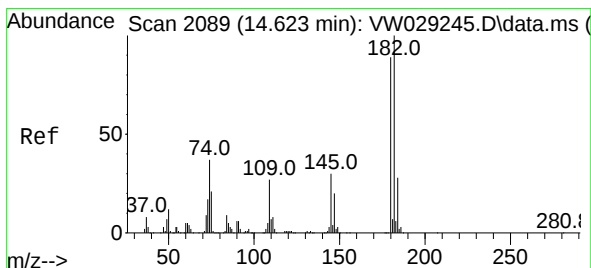
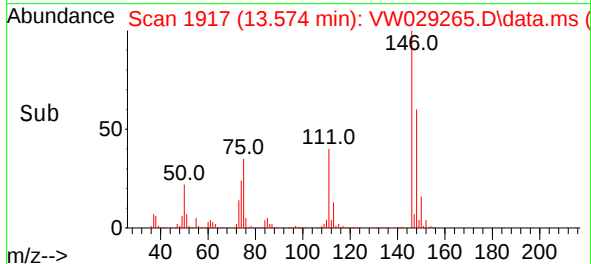
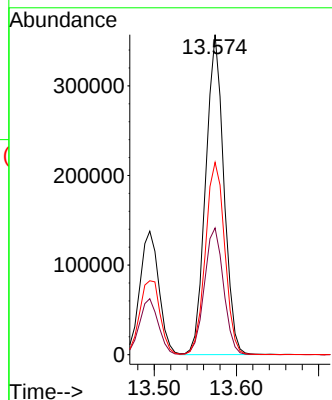
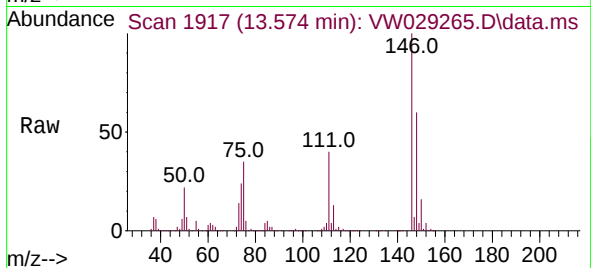
Tgt Ion:146 Resp: 548641

Ion Ratio Lower Upper

146 100

111 39.6 28.9 53.7

148 60.1 42.0 78.0



#69

1,3,5-Trichlorobenzene

Concen: 23.164 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.506 min

Lab File: VW029265.D

Acq: 20 Jun 2024 18:06

Tgt Ion:180 Resp: 123806

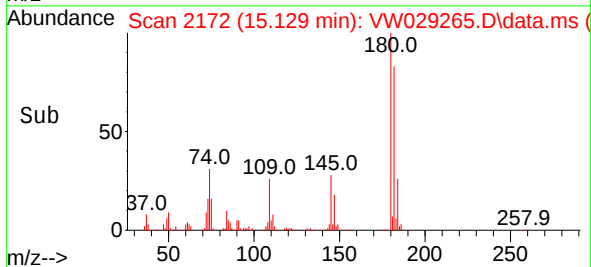
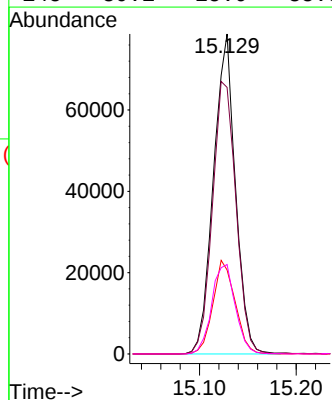
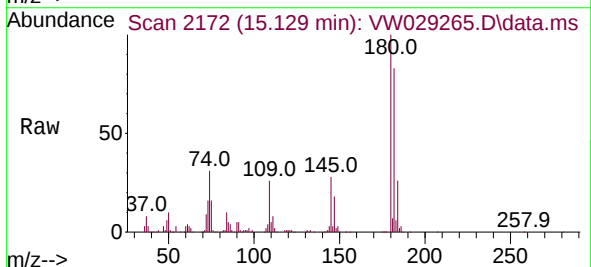
Ion Ratio Lower Upper

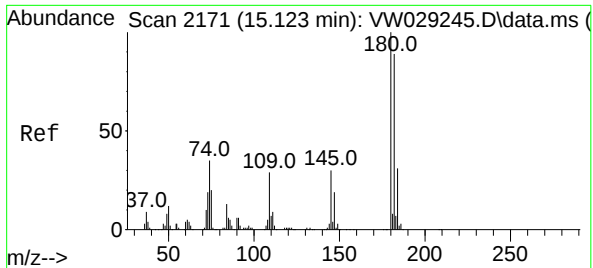
180 100

182 91.2 72.9 109.3

184 29.7 23.8 35.6

145 30.1 25.9 38.9





1,2,4-trichlorobenzene
 Concen: 28.575 ug/L
 RT: 15.129 min Scan# 2171
 Delta R.T. 0.006 min
 Lab File: VW029265.D
 Acq: 20 Jun 2024 18:06

Instrument :
 MSVOA_W
 ClientSampleId :

Tgt Ion:	180	Resp:	123806
Ion Ratio	Lower	Upper	
180	100		
182	91.2	77.7	116.5
145	30.1	25.7	38.5

