

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW082324\
 Data File : VW030009.D
 Acq On : 23 Aug 2024 14:42
 Operator : SY/MD
 Sample : P3696-04
 Misc : 5.36g/10mL/MSVOA_W/SOIL/B
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 24 05:03:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM072424SMA.M
 Quant Title : SFAM01.0
 QLast Update : Sat Aug 24 05:00:17 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.843	114	154749	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	68499	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	13795	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	54777	24.934	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.720%
7) Chloroethane-d5	2.893	69	48746	31.079	ug/L	-0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	124.320%
11) 1,1-Dichloroethene-d2	4.149	65	183	0.182	ug/L	0.13
Spiked Amount	25.000	Range	45 - 110	Recovery	=	0.720%#
21) 2-Butanone-d5	7.088	46	56978	94.625	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	189.260%#
24) Chloroform-d	7.648	84	105964	26.452	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.800%
26) 1,2-Dichloroethane-d4	8.307	65	72446	31.751	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	127.000%
32) Benzene-d6	8.270	84	162387	43.875	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	175.520%#
36) 1,2-Dichloropropane-d6	9.276	67	54798	46.369	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	185.480%#
41) Toluene-d8	10.319	98	88099	26.770	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.080%
43) trans-1,3-Dichloroprop...	10.575	79	19961	41.741	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	166.960%#
47) 2-Hexanone-d5	10.922	63	38850	199.367	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	398.740%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	27387	31.210	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	124.840%#
66) 1,2-Dichlorobenzene-d4	13.617	152	68	0.159	ug/L	-0.23
Spiked Amount	25.000	Range	75 - 120	Recovery	=	0.640%#
Target Compounds						
					Qvalue	
13) Acetone	4.143	43	56996	76.166	ug/L	92
15) Methyl Acetate	4.679	43	16276	13.058	ug/L #	89
16) Methylene chloride	4.923	84	10532	3.256	ug/L	78
22) 2-Butanone	7.179	43	19579	20.420	ug/L	89
33) Benzene	8.325	78	5349	1.140	ug/L	100
35) Methylcyclohexane	9.331	83	2011	0.981	ug/L #	89
39) cis-1,3-Dichloropropene	10.032	75	1695	0.905	ug/L #	28
40) 4-Methyl-2-pentanone	10.203	43	4478	5.481	ug/L #	82
42) Toluene	10.386	91	12935	2.700	ug/L	94
48) 2-Hexanone	10.934	43	16702	27.297	ug/L #	54
52) Ethylbenzene	11.727	91	4360	0.807	ug/L	93
53) m,p-Xylene	11.837	106	3654	1.839	ug/L	94
54) o-Xylene	12.166	106	2563	1.400	ug/L	86
59) Bromoform	12.337	173	797	3.840	ug/L #	45
60) Isopropylbenzene	12.465	105	2224	1.042	ug/L #	1
62) 1,3,5-Trimethylbenzene	12.940	105	20166	12.710	ug/L	95
63) 1,2,4-Trimethylbenzene	13.245	105	33130	19.524	ug/L	86
65) 1,4-Dichlorobenzene	13.586	146	409	0.437	ug/L #	1
68) 1,2-Dibromo-3-chloropr...	14.446	75	1708	22.420	ug/L #	76

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Quant Time: Aug 24 05:03:41 2024
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Quant Title : SFAM01.0
QLast Update : Sat Aug 24 05:00:17 2024
Response via : Initial Calibration

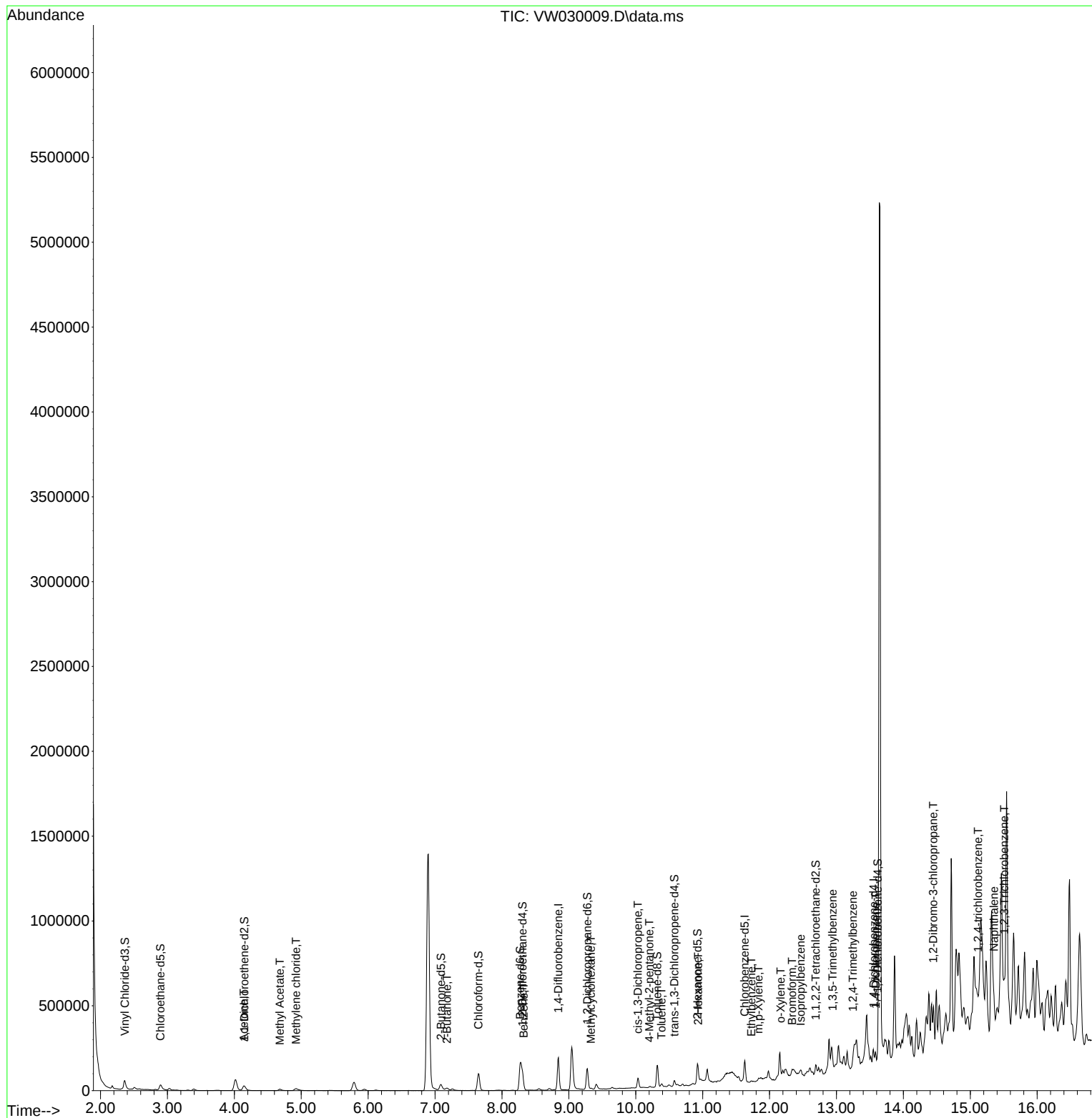
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,4-trichlorobenzene	15.117	180	275	0.524	ug/L #	1
71) Naphthalene	15.354	128	29164	29.115	ug/L #	91
72) 1,2,3-Trichlorobenzene	15.507	180	2298	4.836	ug/L #	1

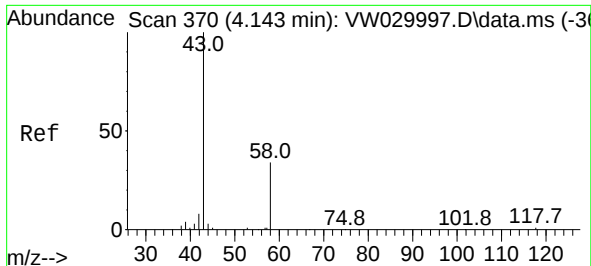
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SFAM01.0
QLast Update : Sat Aug 24 05:00:17 2024
Response via : Initial Calibration

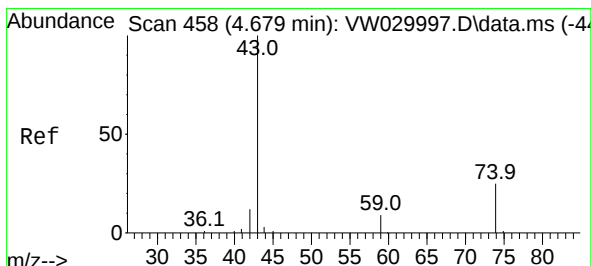
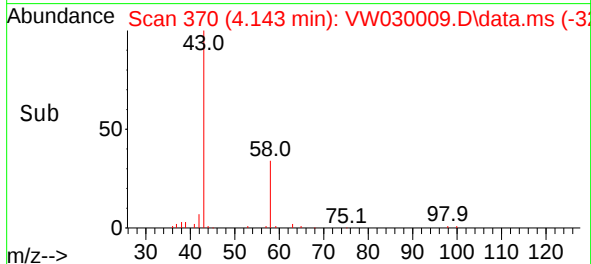
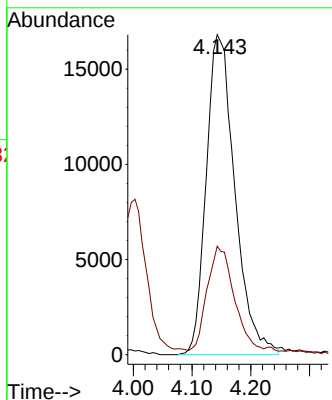
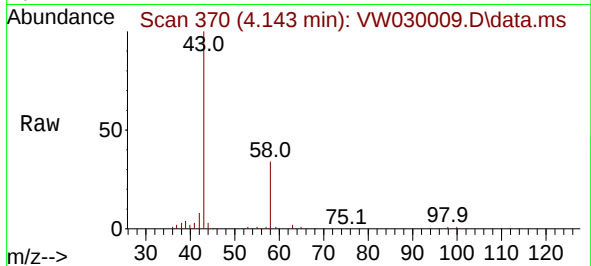




#13
Acetone
Concen: 76.166 ug/L
RT: 4.143 min Scan# 370
Delta R.T. 0.000 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

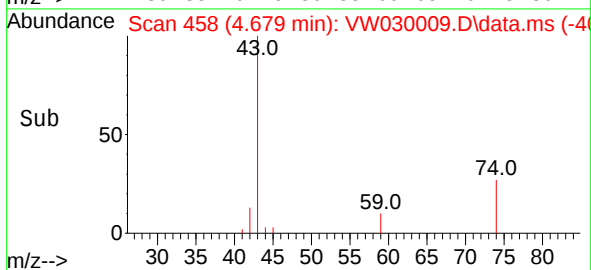
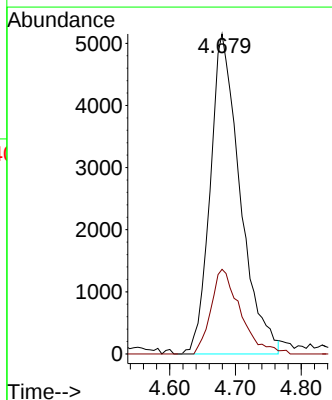
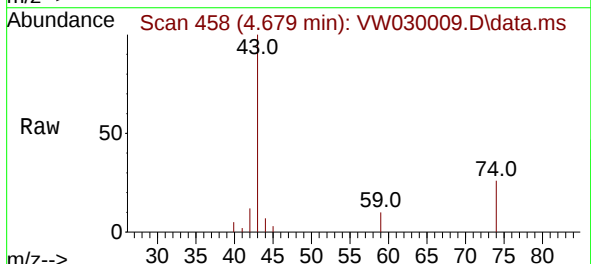
Instrument :
MSVOA_W
ClientSampleId :

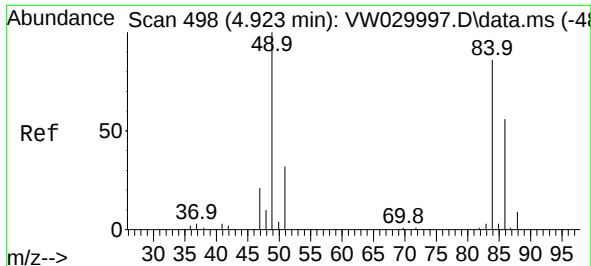
Tgt Ion: 43 Resp: 56996
Ion Ratio Lower Upper
43 100
58 33.2 0.0 57.6



#15
Methyl Acetate
Concen: 13.058 ug/L
RT: 4.679 min Scan# 458
Delta R.T. 0.000 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

Tgt Ion: 43 Resp: 16276
Ion Ratio Lower Upper
43 100
74 25.8 16.5 24.7#





#16

Methylene chloride

Concen: 3.256 ug/L

RT: 4.923 min Scan# 498

Delta R.T. 0.000 min

Lab File: VW030009.D

Acq: 23 Aug 2024 14:42

Instrument :

MSVOA_W

ClientSampleId :

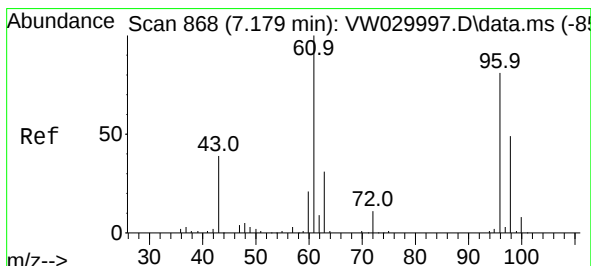
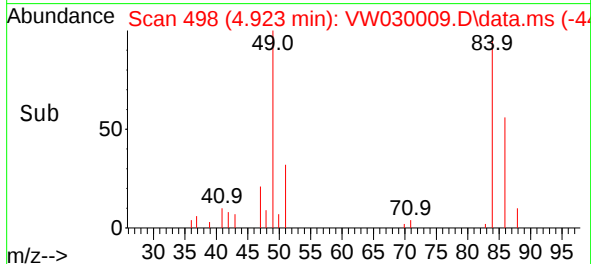
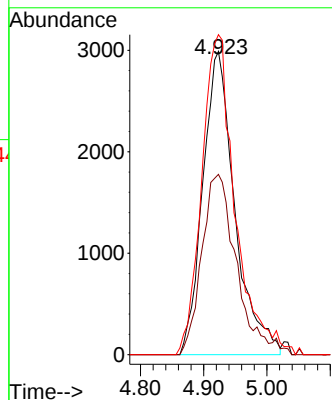
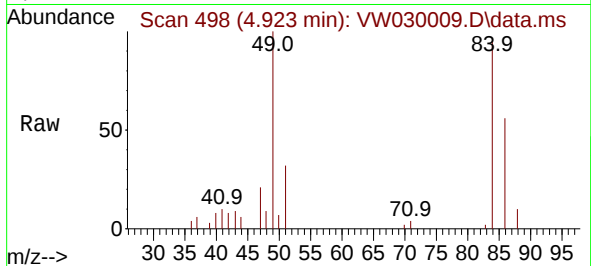
Tgt Ion: 84 Resp: 10532

Ion Ratio Lower Upper

84 100

86 59.5 44.7 82.9

49 105.5 99.0 184.0



#22

2-Butanone

Concen: 20.420 ug/L

RT: 7.179 min Scan# 868

Delta R.T. 0.000 min

Lab File: VW030009.D

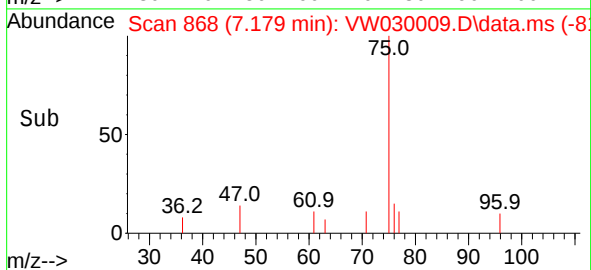
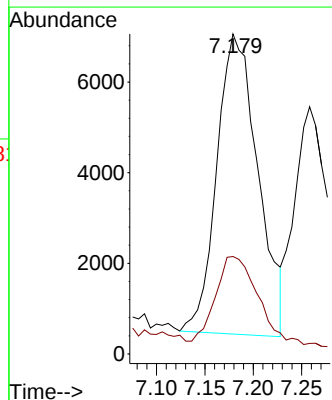
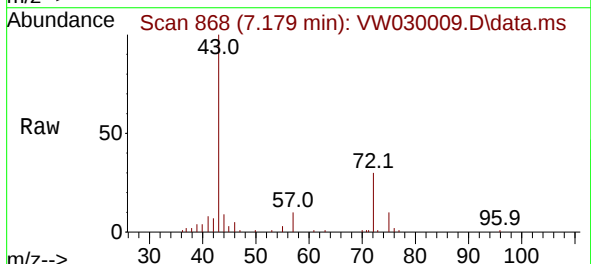
Acq: 23 Aug 2024 14:42

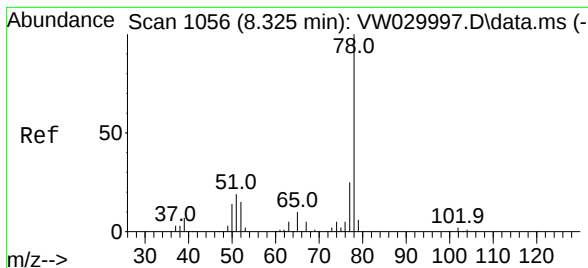
Tgt Ion: 43 Resp: 19579

Ion Ratio Lower Upper

43 100

72 28.8 11.7 35.1





#33

Benzene

Concen: 1.140 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VW030009.D

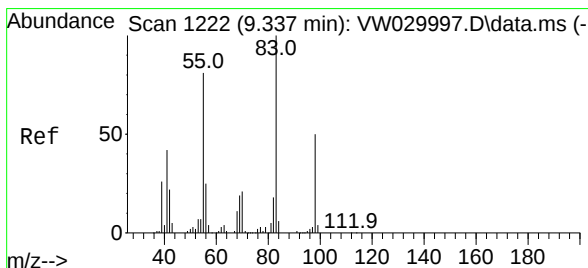
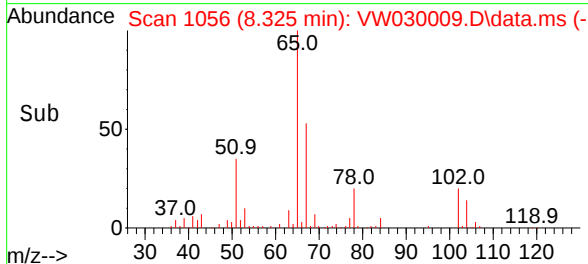
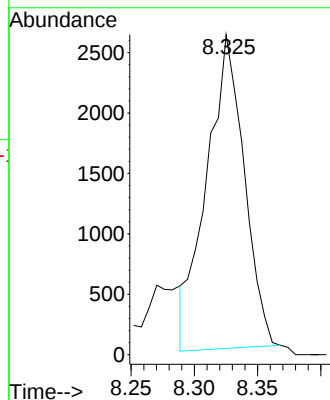
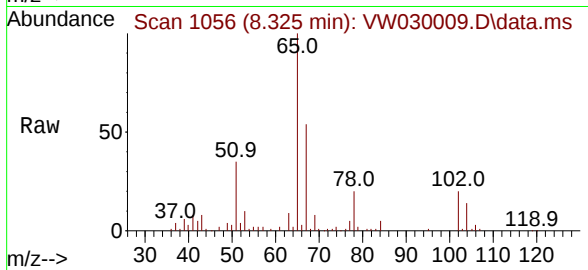
Acq: 23 Aug 2024 14:42

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 5349



#35

Methylcyclohexane

Concen: 0.981 ug/L

RT: 9.331 min Scan# 1221

Delta R.T. -0.006 min

Lab File: VW030009.D

Acq: 23 Aug 2024 14:42

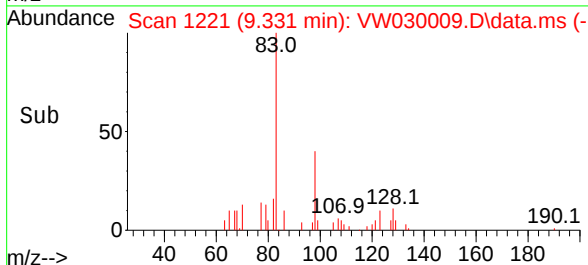
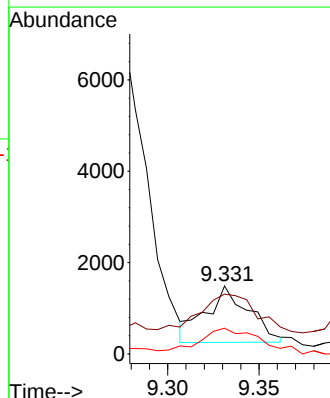
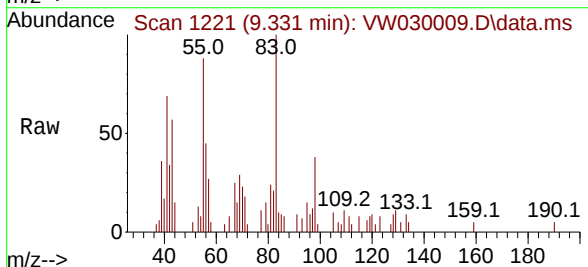
Tgt Ion: 83 Resp: 2011

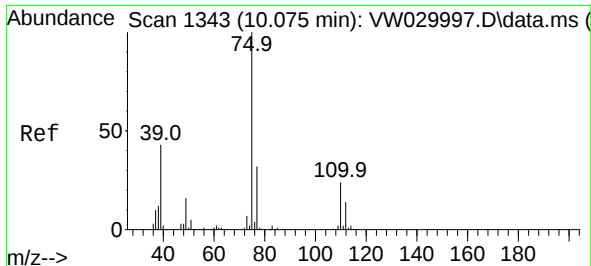
Ion Ratio Lower Upper

83 100

55 91.3 67.4 101.2

98 56.9 36.7 55.1#





#39

cis-1,3-Dichloropropene

Concen: 0.905 ug/L

RT: 10.032 min Scan# 1336

Delta R.T. -0.043 min

Lab File: VW030009.D

Acq: 23 Aug 2024 14:42

Instrument :

MSVOA_W

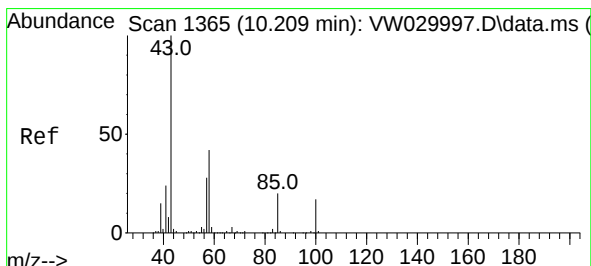
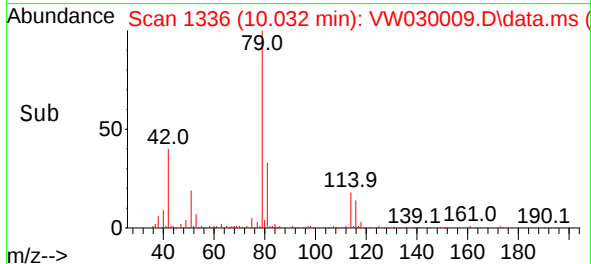
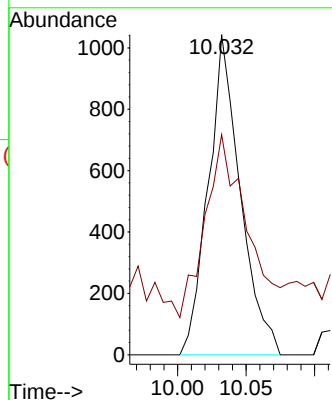
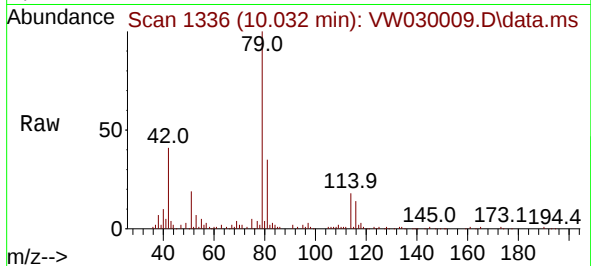
ClientSampleId :

Tgt Ion: 75 Resp: 1695

Ion Ratio Lower Upper

75 100

77 68.7 20.8 38.6#



#40

4-Methyl-2-pentanone

Concen: 5.481 ug/L

RT: 10.203 min Scan# 1364

Delta R.T. -0.006 min

Lab File: VW030009.D

Acq: 23 Aug 2024 14:42

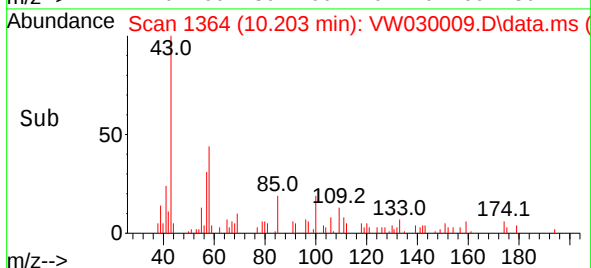
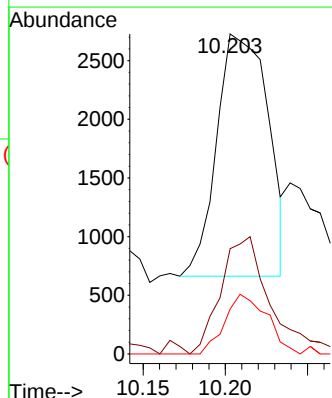
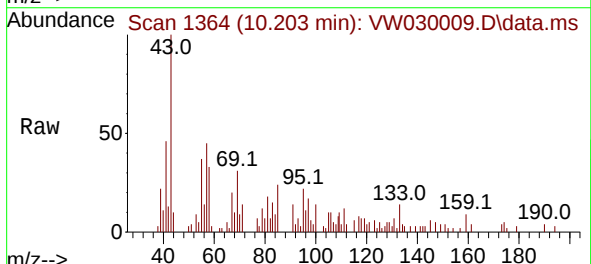
Tgt Ion: 43 Resp: 4478

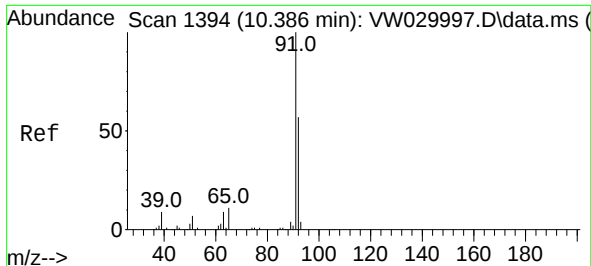
Ion Ratio Lower Upper

43 100

58 46.4 28.7 43.1#

100 20.2 10.0 15.0#

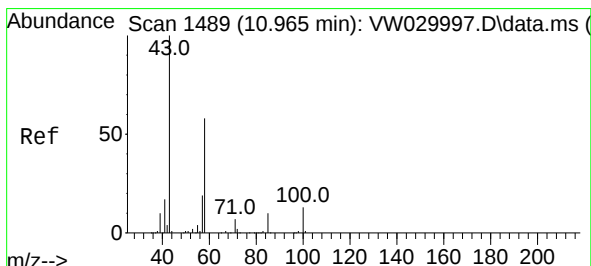
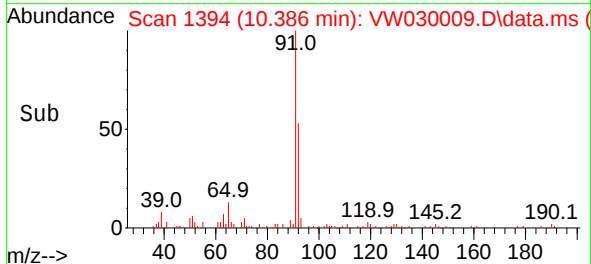
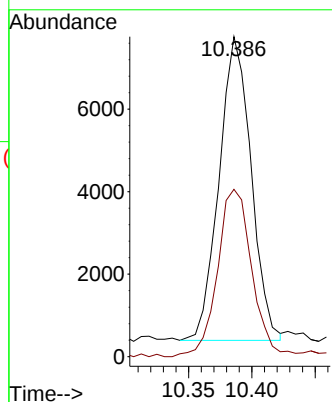
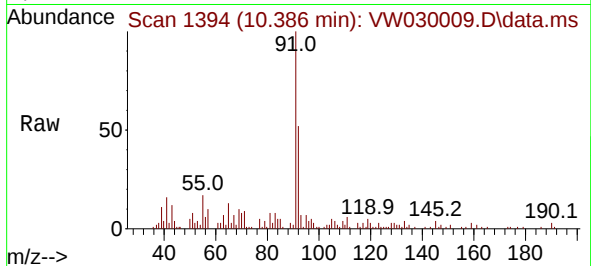




#42
Toluene
Concen: 2.700 ug/L
RT: 10.386 min Scan# 1484
Delta R.T. 0.000 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

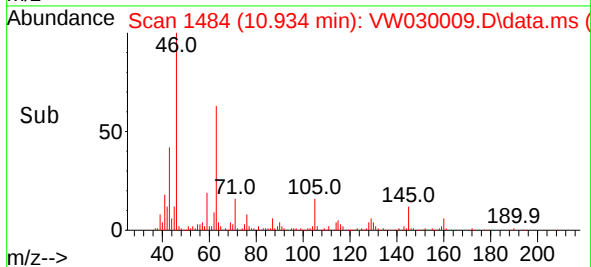
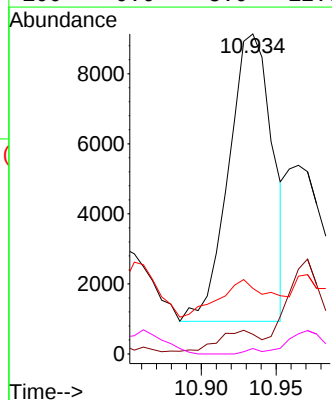
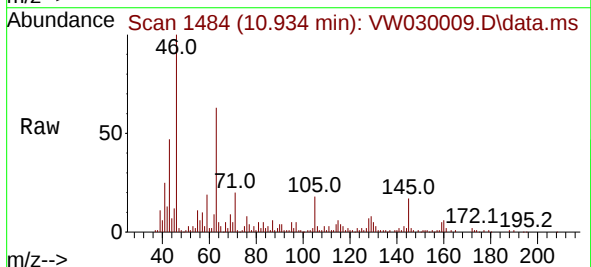
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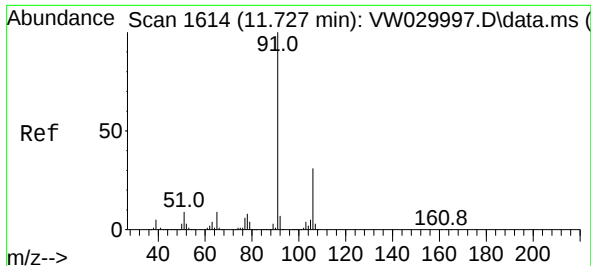
Tgt Ion: 91 Resp: 12935
Ion Ratio Lower Upper
91 100
92 52.3 39.5 73.4



#48
2-Hexanone
Concen: 27.297 ug/L
RT: 10.934 min Scan# 1484
Delta R.T. -0.030 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

Tgt Ion: 43 Resp: 16702
Ion Ratio Lower Upper
43 100
58 6.7 41.0 61.4#
57 15.8 14.1 21.1
100 0.6 8.0 12.0#





#52

Ethylbenzene

Concen: 0.807 ug/L

RT: 11.727 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW030009.D

Acq: 23 Aug 2024 14:42

Instrument :

MSVOA_W

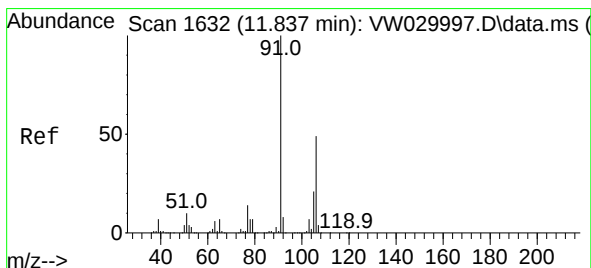
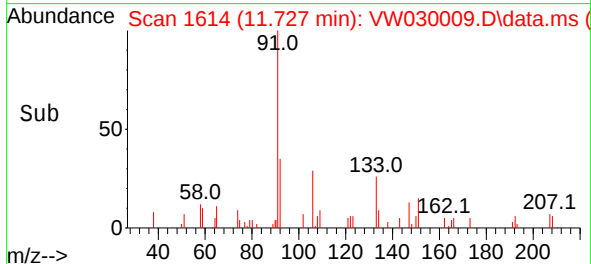
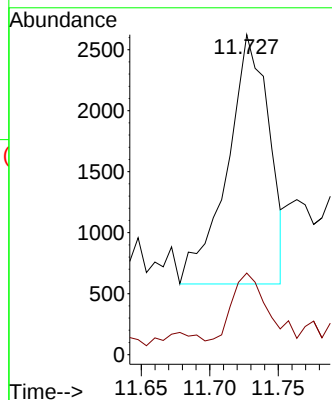
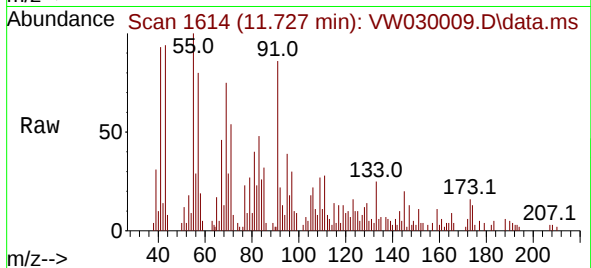
ClientSampleId :

Tgt Ion: 91 Resp: 4360

Ion Ratio Lower Upper

91 100

106 25.5 20.4 38.0



#53

m,p-Xylene

Concen: 1.839 ug/L

RT: 11.837 min Scan# 1632

Delta R.T. 0.000 min

Lab File: VW030009.D

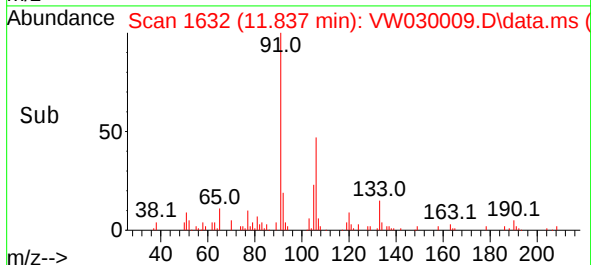
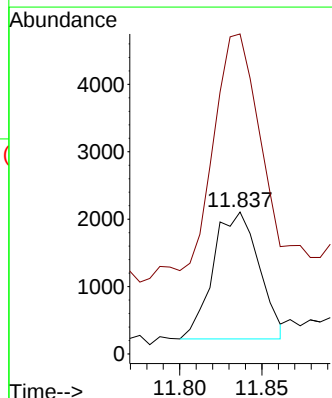
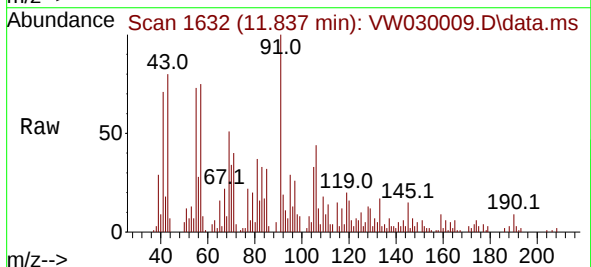
Acq: 23 Aug 2024 14:42

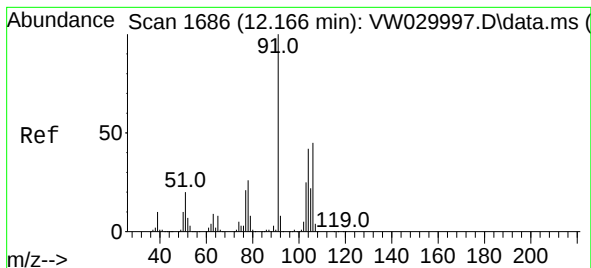
Tgt Ion:106 Resp: 3654

Ion Ratio Lower Upper

106 100

91 225.5 151.4 281.2





#54

o-Xylene

Concen: 1.400 ug/L

RT: 12.166 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW030009.D

Acq: 23 Aug 2024 14:42

Instrument :

MSVOA_W

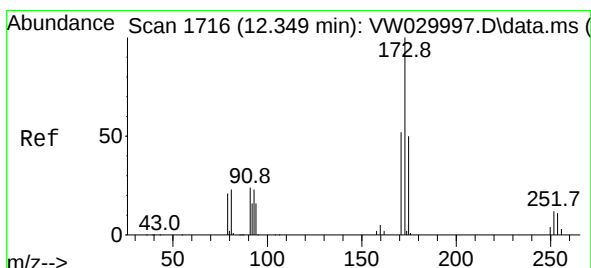
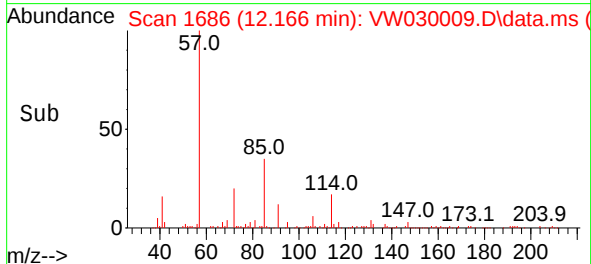
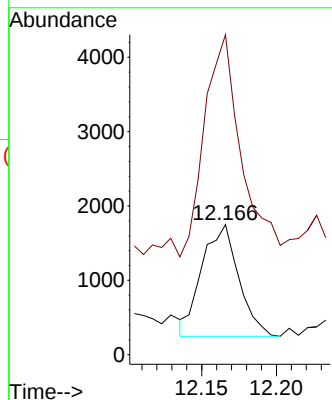
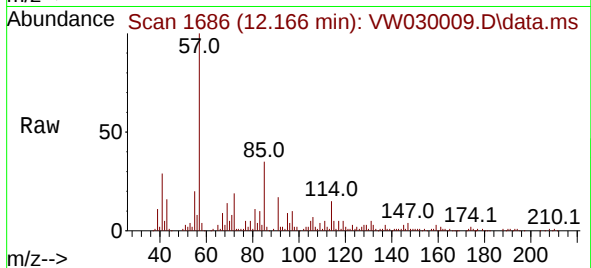
ClientSampleId :

Tgt Ion:106 Resp: 2563

Ion Ratio Lower Upper

106 100

91 246.1 155.8 289.4



#59

Bromoform

Concen: 3.840 ug/L

RT: 12.337 min Scan# 1714

Delta R.T. -0.012 min

Lab File: VW030009.D

Acq: 23 Aug 2024 14:42

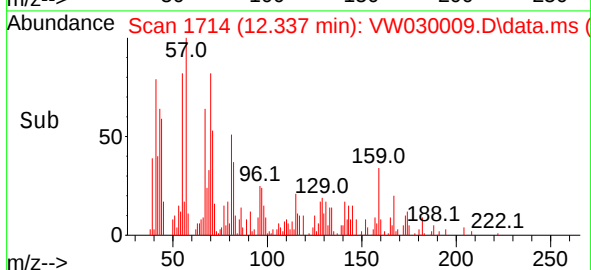
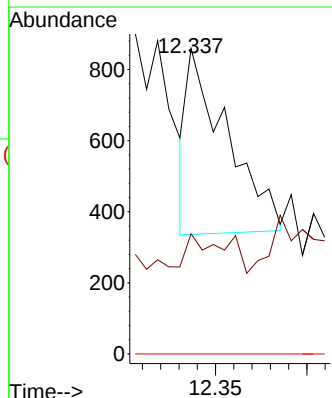
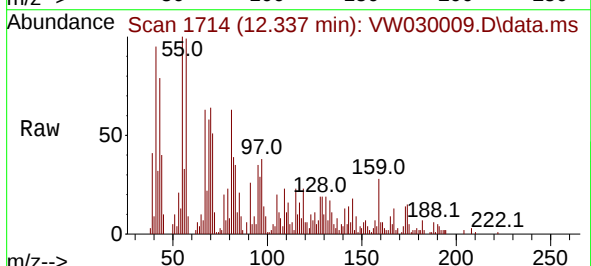
Tgt Ion:173 Resp: 797

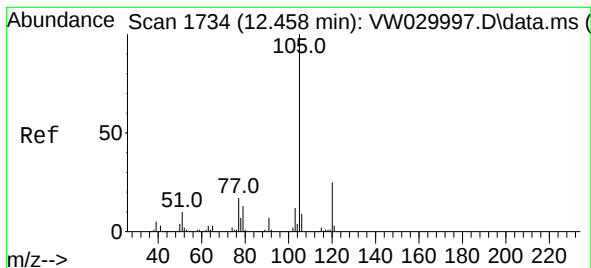
Ion Ratio Lower Upper

173 100

175 6.4 38.1 57.1#

254 0.0 7.8 11.6#





#60

Isopropylbenzene

Concen: 1.042 ug/L

RT: 12.465 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW030009.D

Acq: 23 Aug 2024 14:42

Instrument :

MSVOA_W

ClientSampleId :

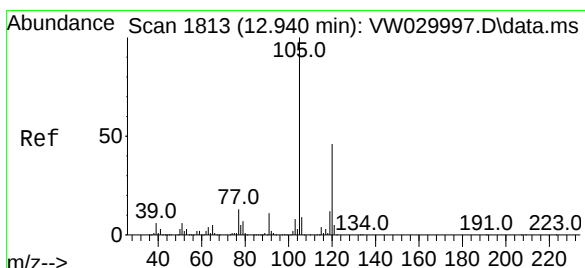
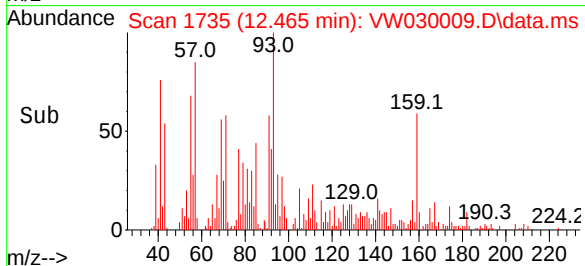
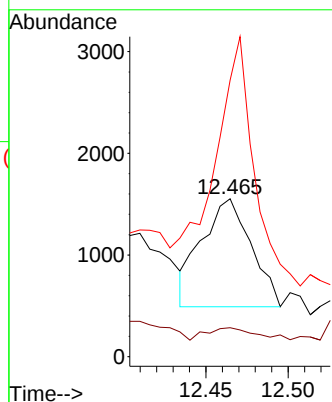
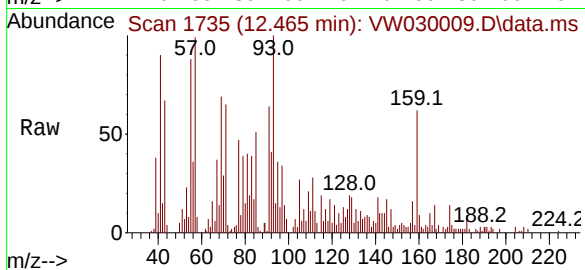
Tgt Ion:105 Resp: 2224

Ion Ratio Lower Upper

105 100

120 10.5 20.3 30.5#

77 188.4 14.0 21.0#



#62

1,3,5-Trimethylbenzene

Concen: 12.710 ug/L

RT: 12.940 min Scan# 1813

Delta R.T. 0.000 min

Lab File: VW030009.D

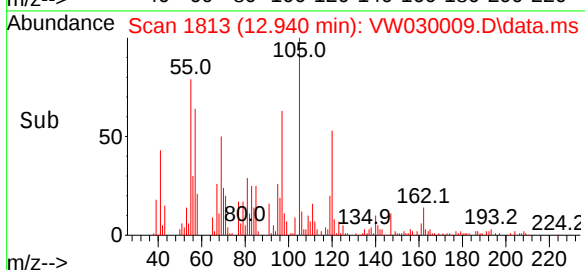
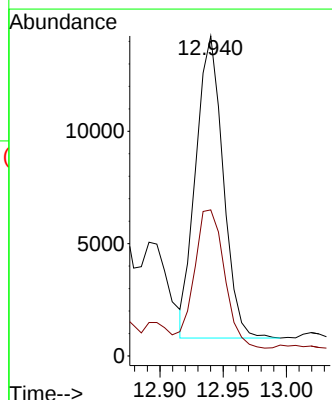
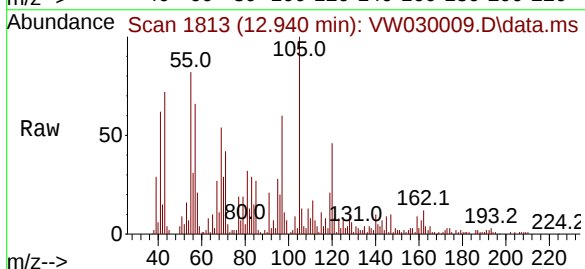
Acq: 23 Aug 2024 14:42

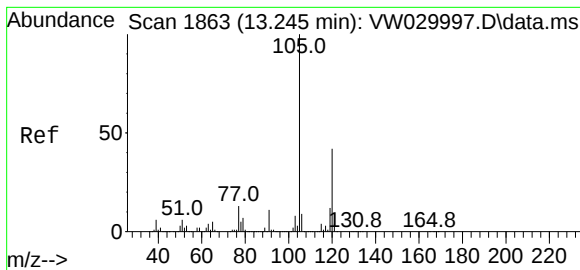
Tgt Ion:105 Resp: 20166

Ion Ratio Lower Upper

105 100

120 51.2 38.2 57.2

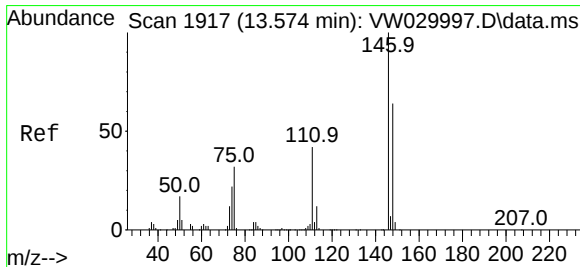
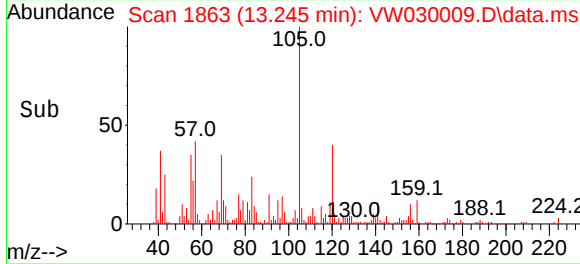
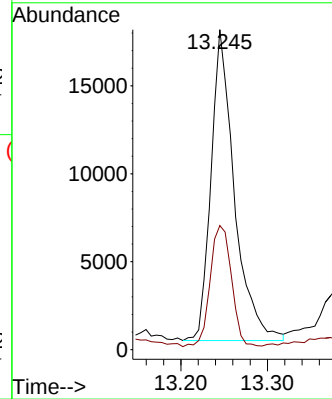
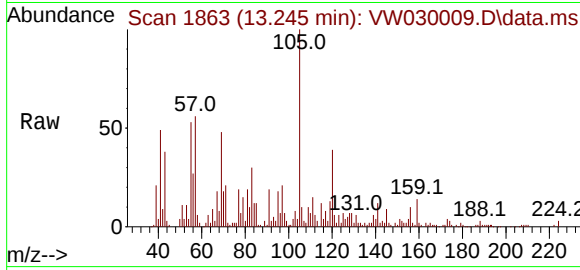




#63
1,2,4-Trimethylbenzene
Concen: 19.524 ug/L
RT: 13.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

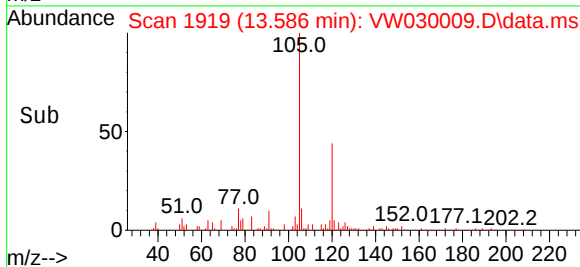
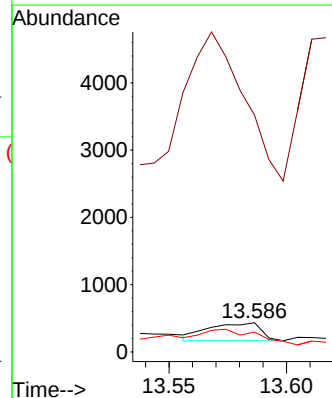
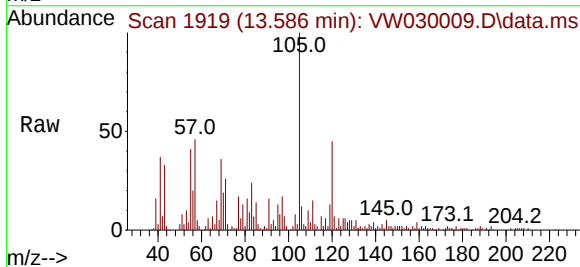
Instrument :
MSVOA_W
ClientSampleId :

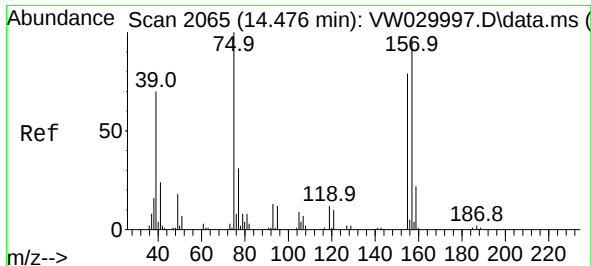
Tgt Ion:105 Resp: 33130
Ion Ratio Lower Upper
105 100
120 35.4 35.4 53.0



#65
1,4-Dichlorobenzene
Concen: 0.437 ug/L
RT: 13.586 min Scan# 1919
Delta R.T. 0.012 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

Tgt Ion:146 Resp: 409
Ion Ratio Lower Upper
146 100
111 810.8 30.1 55.9#
148 68.2 45.4 84.4

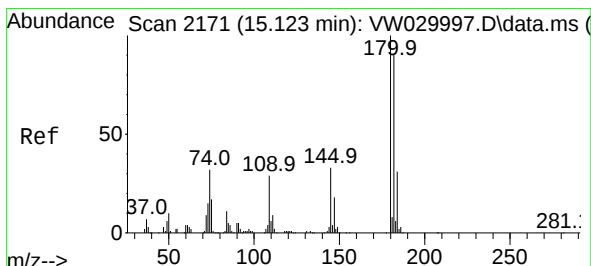
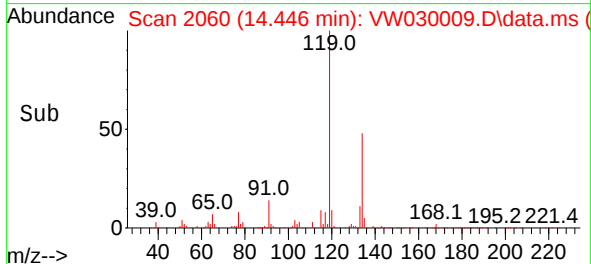
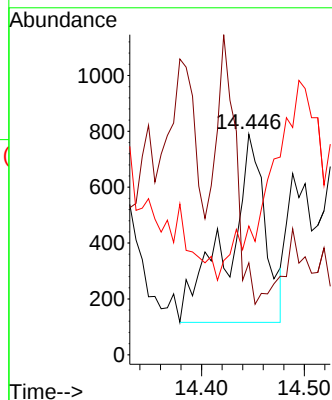
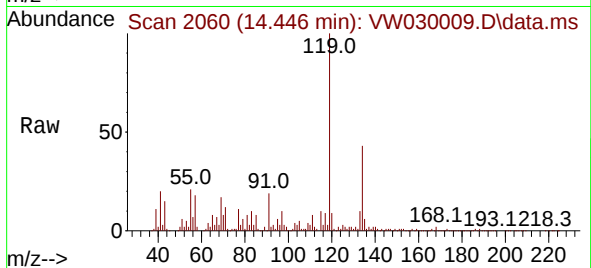




#68
1,2-Dibromo-3-chloropropane
Concen: 22.420 ug/L
RT: 14.446 min Scan# 2065
Delta R.T. -0.030 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

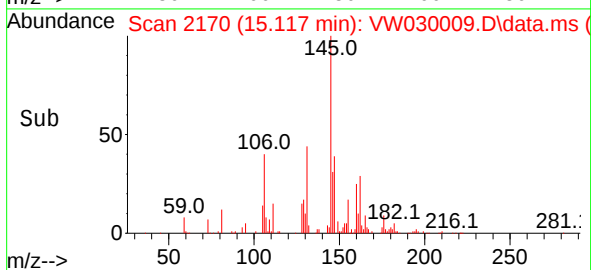
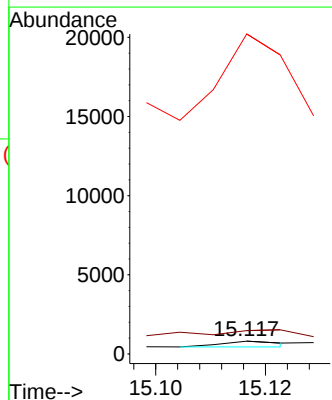
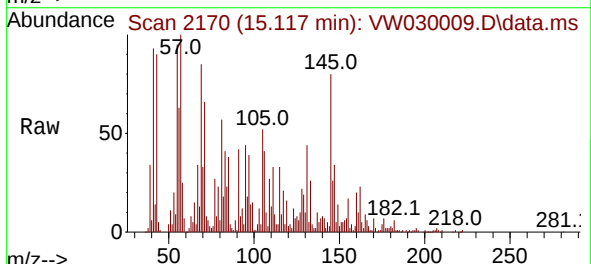
Instrument :
MSVOA_W
ClientSampleId :

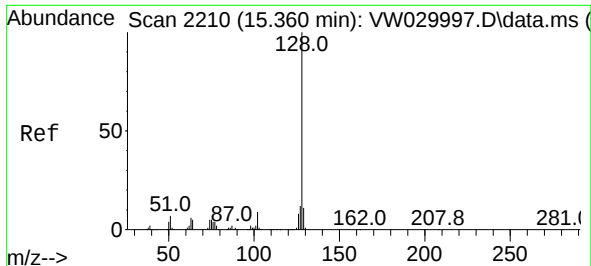
Tgt Ion: 75 Resp: 1708
Ion Ratio Lower Upper
75 100
155 41.6 47.8 71.6#
157 58.4 63.7 95.5#



#70
1,2,4-trichlorobenzene
Concen: 0.524 ug/L
RT: 15.117 min Scan# 2170
Delta R.T. -0.006 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

Tgt Ion:180 Resp: 275
Ion Ratio Lower Upper
180 100
182 1004.7 80.2 120.4#
145 9492.0 26.3 39.5#

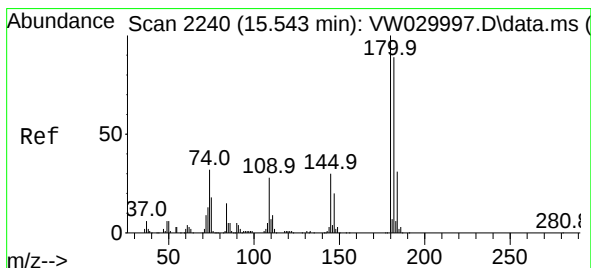
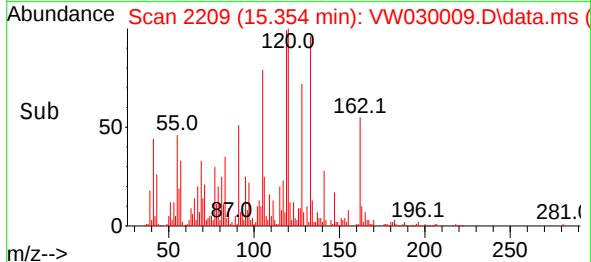
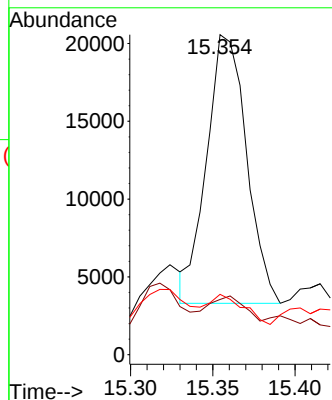
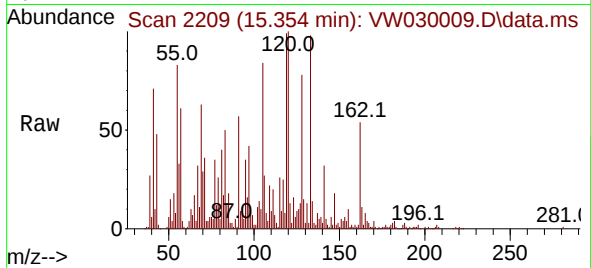




#71
Naphthalene
Concen: 29.115 ug/L
RT: 15.354 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:128 Resp: 29164
Ion Ratio Lower Upper
128 100
127 8.2 10.7 16.1#
129 9.3 8.9 13.3



#72
1,2,3-Trichlorobenzene
Concen: 4.836 ug/L
RT: 15.507 min Scan# 2234
Delta R.T. -0.036 min
Lab File: VW030009.D
Acq: 23 Aug 2024 14:42

Tgt Ion:180 Resp: 2298
Ion Ratio Lower Upper
180 100
182 20.7 74.0 111.0#
145 705.2 27.5 41.3#

