

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111520\
 Data File : VW017238.D
 Acq On : 15 Nov 2020 15:16
 Operator : SY/VA
 Sample : L4727-09
 Misc : 5.11G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 C0AC3

Quant Time: Nov 16 09:56:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM110420S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Nov 16 09:47:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	303878	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	187096	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	42607	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	79929	20.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	83.52%
7) Chloroethane-d5	2.89	69	72662	24.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.56%
10) 1,1-Dichloroethene-d2	4.02	63	121922	17.81	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	71.24%
20) 2-Butanone-d5	7.09	46	41030	47.94	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.88%
24) Chloroform-d	7.65	84	183861	25.92	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.68%
26) 1,2-Dichloroethane-d4	8.31	65	97547	27.66	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	110.64%
29) Benzene-d6	8.28	84	347013	36.42	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	145.68%#
33) 1,2-Dichloropropane-d6	9.27	67	93687	35.55	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	142.20%#
37) Toluene-d8	10.33	98	268733	29.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	119.64%
38) trans-1,3-Dichloropropene-	10.58	79	35266	29.68	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	118.72%
39) 2-Hexanone-d5	10.93	63	34431	74.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	149.74%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	53784	23.43	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.72%
61) 1,2-Dichlorobenzene-d4	13.85	152	38970	25.96	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.84%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	4.14	43	3672	6.407	ug/L	45
14) Carbon disulfide	4.39	76	2717	0.265	ug/L	98
16) Methylene chloride	4.92	84	9047	2.208	ug/L	90
35) Trichloroethene	8.85	95	8703	3.162	ug/L #	2
40) 1,2-Dichloropropane	9.27	63	11670	5.081	ug/L #	84
42) cis-1,3-Dichloropropene	10.04	75	3258	0.896	ug/L #	66
43) 4-Methyl-2-pentanone	10.21	43	2598	1.834	ug/L	89
44) Toluene	10.39	91	4615	0.427	ug/L	96
45) trans-1,3-Dichloropropene	10.59	75	1949	0.624	ug/L #	75
46) 1,1,2-Trichloroethane	10.77	97	920	0.465	ug/L #	36
53) Ethylbenzene	11.73	91	6974	0.577	ug/L	93
54) m,p-Xylene	11.84	106	5397	1.142	ug/L	88
55) o-xylene	12.17	106	6370	1.420	ug/L	89
57) Isopropylbenzene	12.47	105	20204	1.660	ug/L #	93
59) 1,2,3-Trichloropropane	12.60	75	685	0.417	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.46	75	18515	117.163	ug/L #	1
68) 1,2,4-trichlorobenzene	15.13	180	4476	2.872	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Mon Nov 16 09:47:42 2020
Response via : Initial Calibration

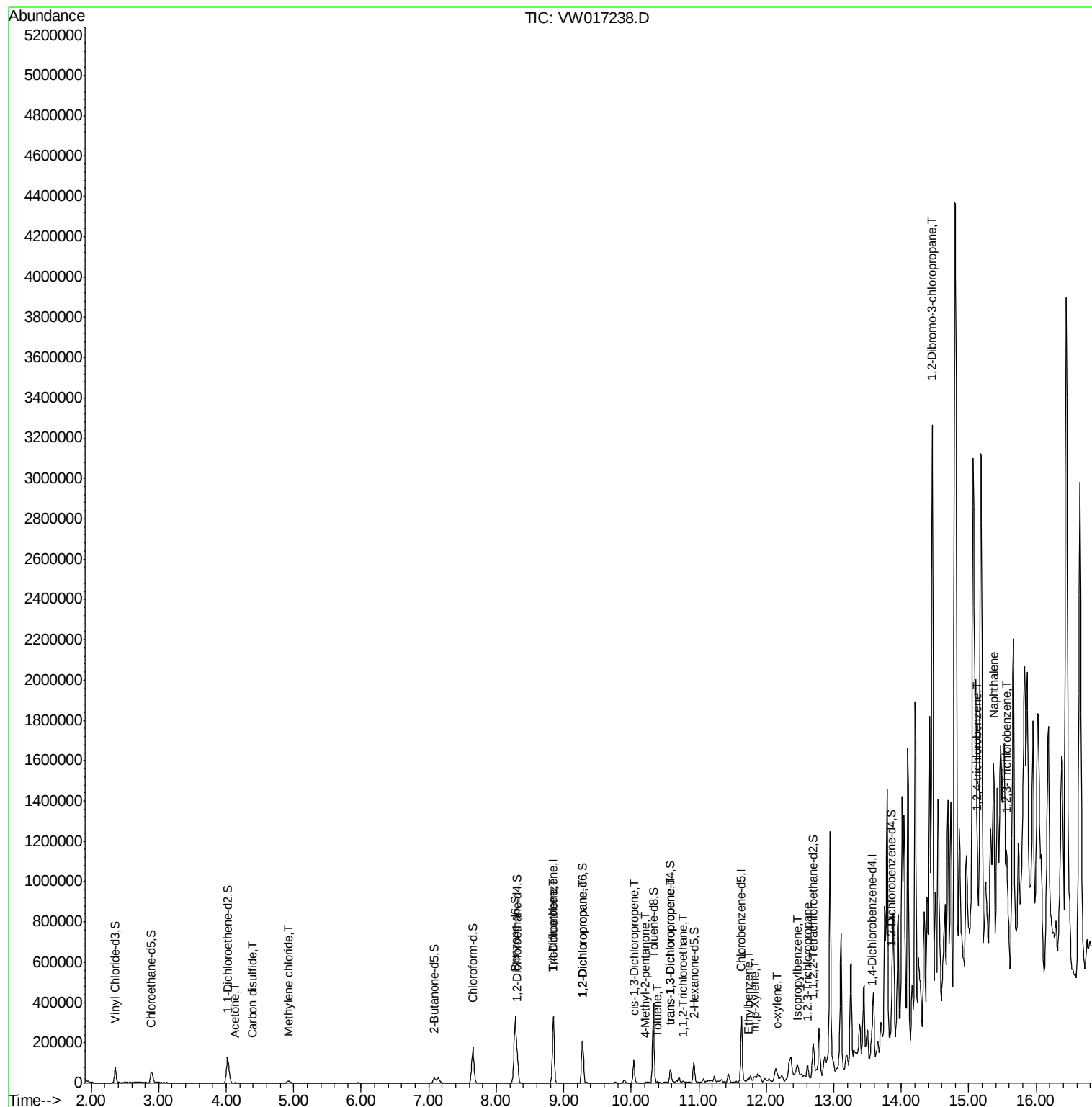
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	15.36	128	761408	265.460	ug/L	97
70) 1,2,3-Trichlorobenzene	15.57	180	3533	2.481	ug/L #	1

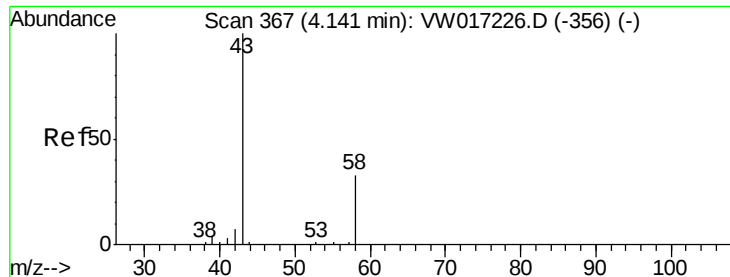
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
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Response via : Initial Calibration





#13

Acetone

Concen: 6.407 ug/L

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW017238.D

Acq: 15 Nov 2020 15:16

Instrument :

MSVOA_W

ClientSampled :

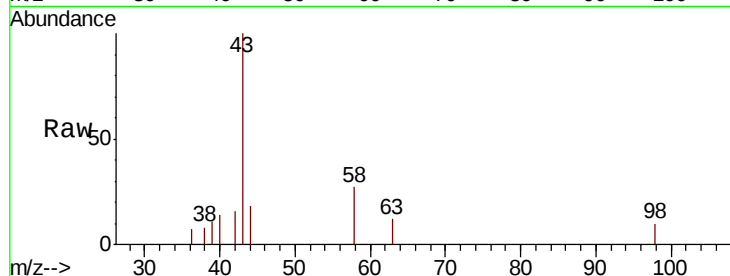
C0AC3

Tot Ion: 43 Resp: 3672

Ion Ratio Lower Upper

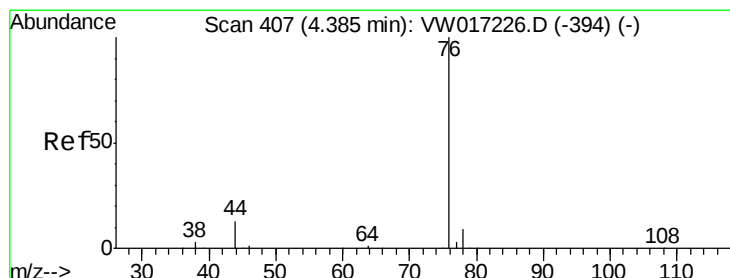
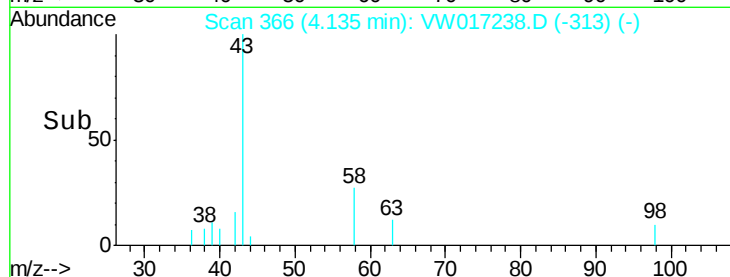
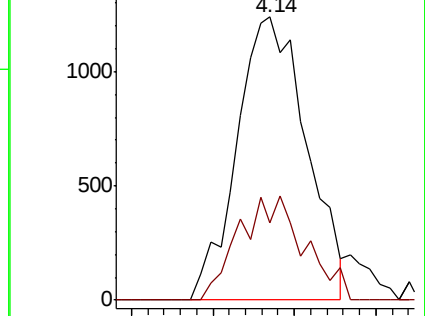
43 100

58 2.8 0.0 69.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 0.265 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW017238.D

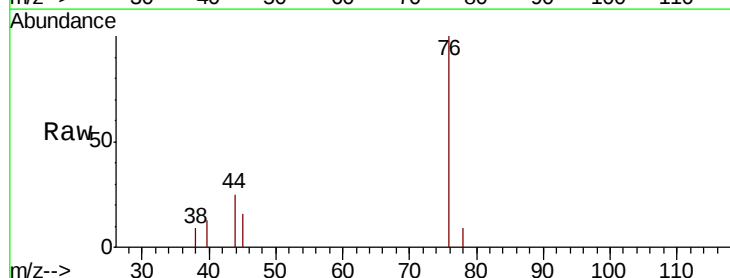
Acq: 15 Nov 2020 15:16

Tgt Ion: 76 Resp: 2717

Ion Ratio Lower Upper

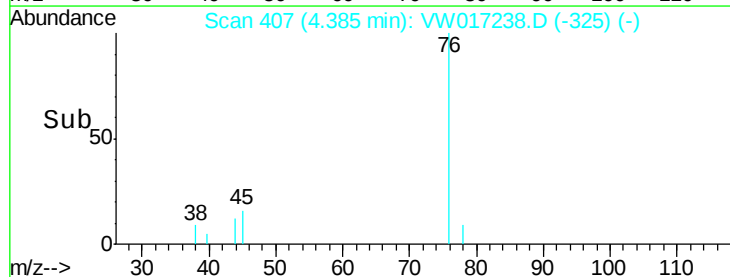
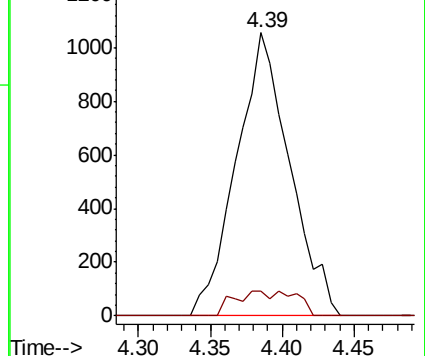
76 100

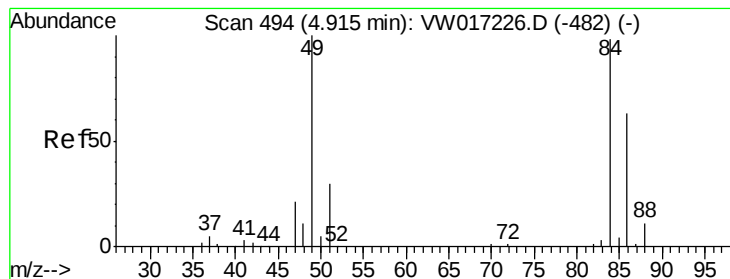
78 8.8 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#16

Methvlene chloride

Concen: 2.208 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW017238.D

Acq: 15 Nov 2020 15:16

Instrument :

MSVOA_W

ClientSampleId :

C0AC3

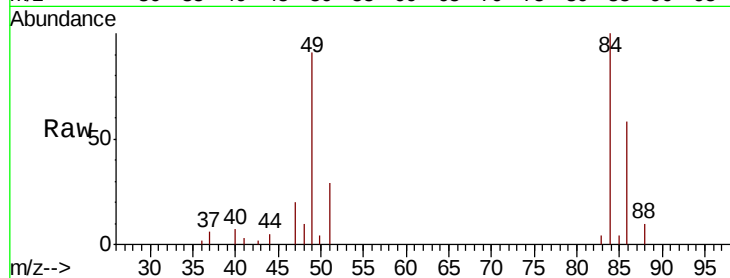
Tot Ion: 84 Resp: 9047

Ion Ratio Lower Upper

84 100

49 91.4 72.3 134.3

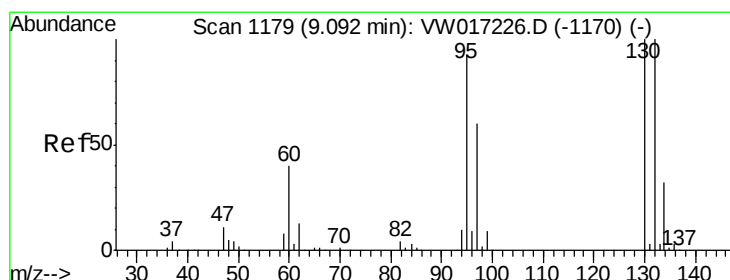
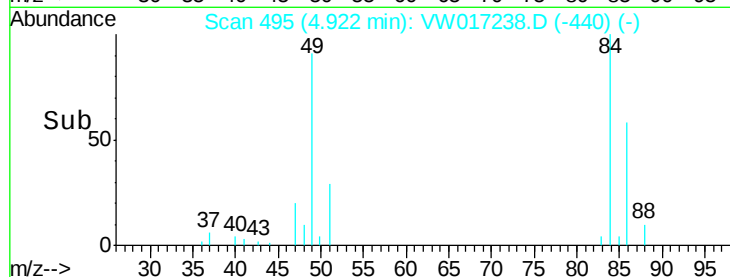
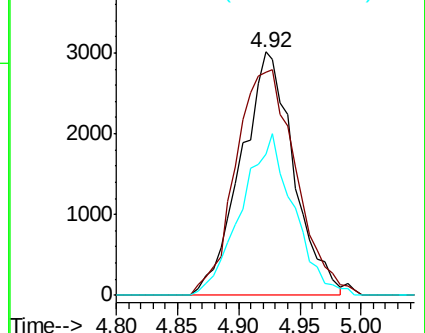
86 58.0 45.1 83.7



Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW



#35

Trichloroethene

Concen: 3.162 ug/L

RT: 8.85 min Scan# 1139

Delta R.T. -0.24 min

Lab File: VW017238.D

Acq: 15 Nov 2020 15:16

Tgt Ion: 95 Resp: 8703

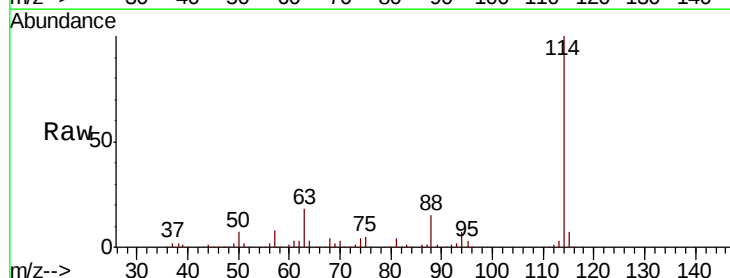
Ion Ratio Lower Upper

95 100

97 0.0 45.0 83.6#

132 0.0 73.7 136.9#

130 0.0 77.1 143.1#

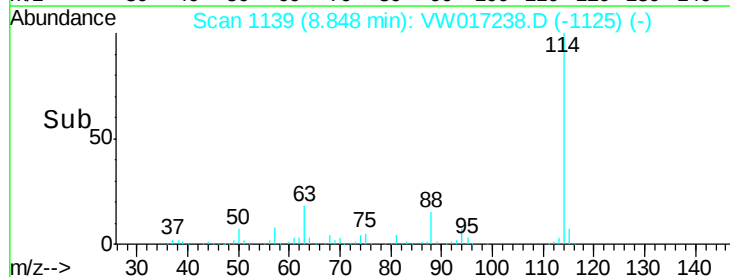
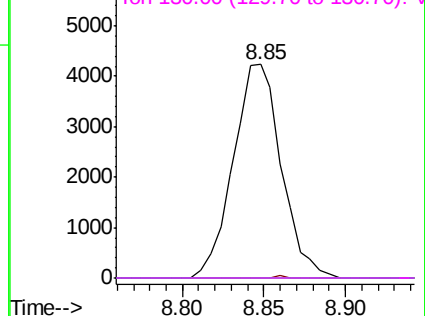


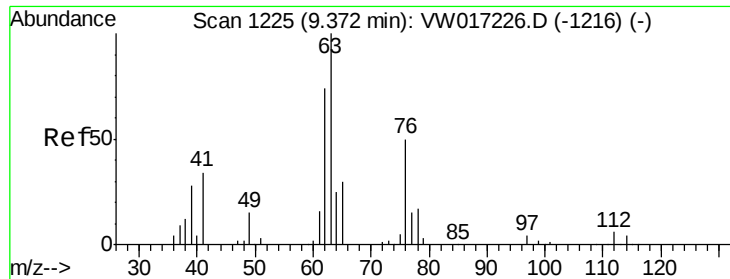
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

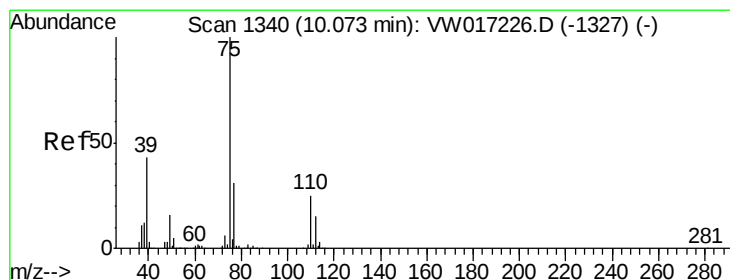
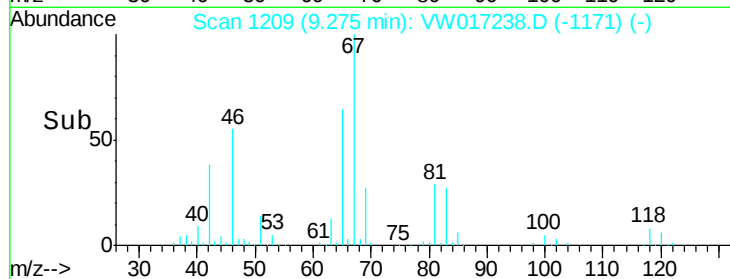
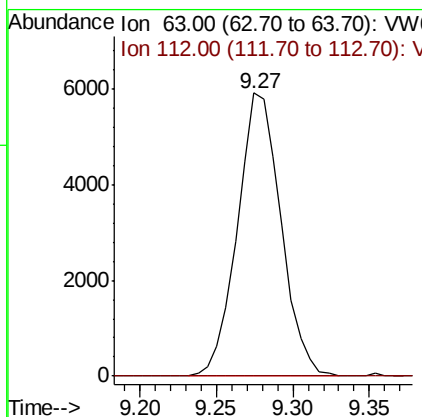
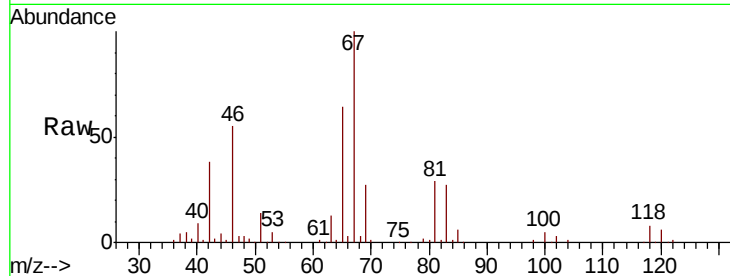




#40
 1,2-Dichloropropane
 Concen: 5.081 ug/L
 RT: 9.27 min Scan# 1209
 Delta R.T. -0.10 min
 Lab File: VW017238.D
 Acq: 15 Nov 2020 15:16

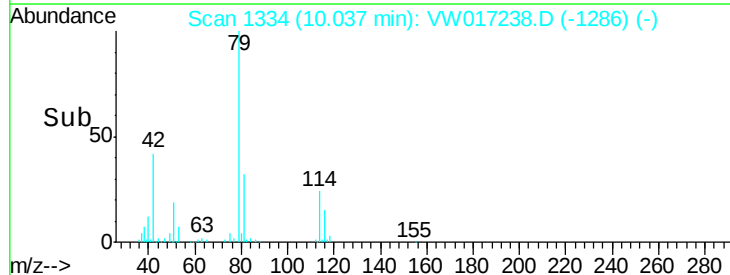
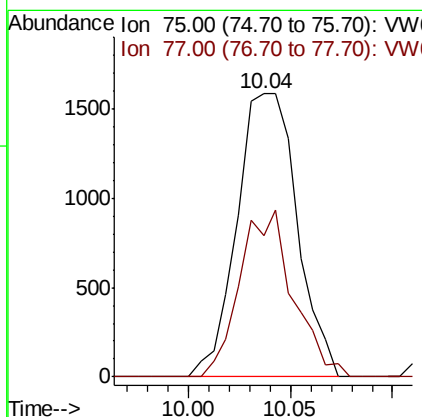
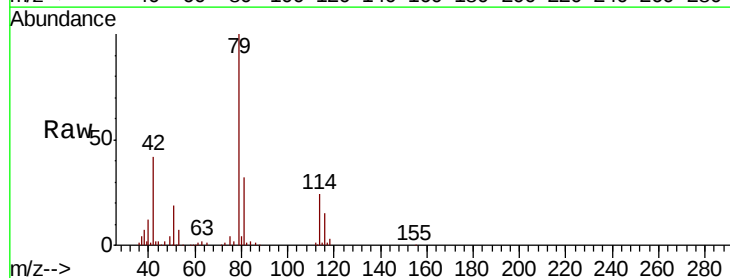
Instrument :
 MSVOA_W
 ClientSampleId :
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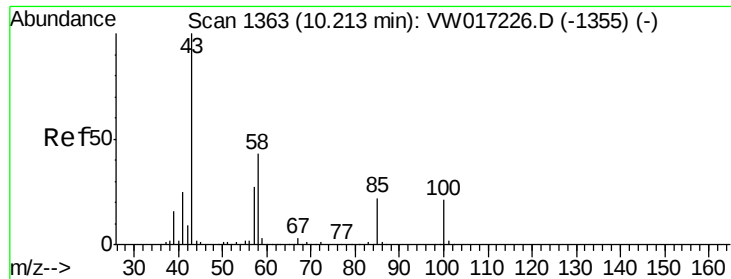
Tot Ion: 63 Resp: 11670
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.2 6.2#



#42
 cis-1,3-Dichloropropene
 Concen: 0.896 ug/L
 RT: 10.04 min Scan# 1334
 Delta R.T. -0.04 min
 Lab File: VW017238.D
 Acq: 15 Nov 2020 15:16

Tgt Ion: 75 Resp: 3258
 Ion Ratio Lower Upper
 75 100
 77 50.1 22.0 41.0#





#43

4-Methyl-2-pentanone

Concen: 1.834 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW017238.D

Acq: 15 Nov 2020 15:16

Instrument :

MSVOA_W

ClientSampleId :

C0AC3

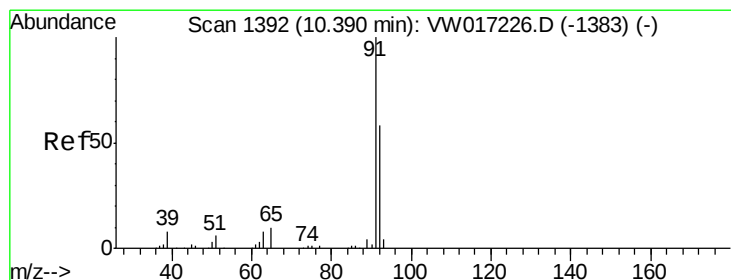
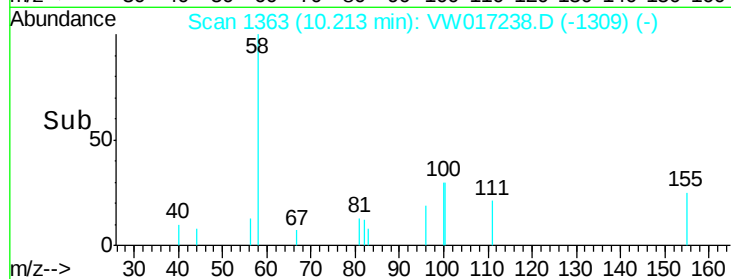
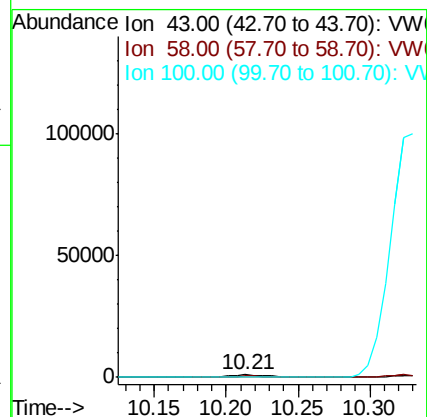
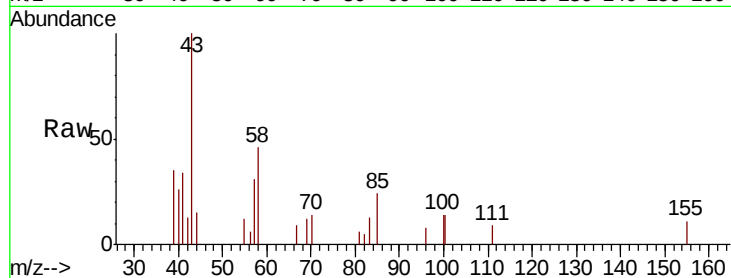
Tot Ion: 43 Resp: 2598

Ion Ratio Lower Upper

43 100

58 35.7 35.0 52.6

100 16.8 16.6 24.8



#44

Toluene

Concen: 0.427 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW017238.D

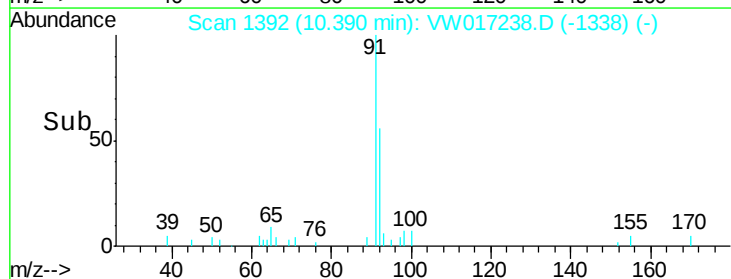
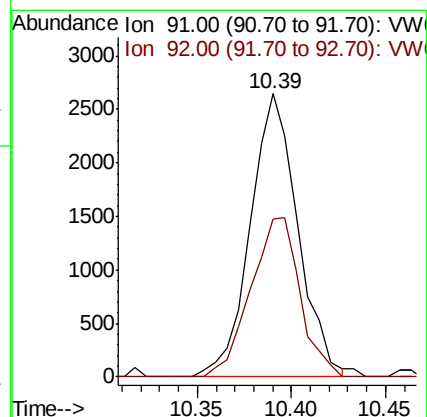
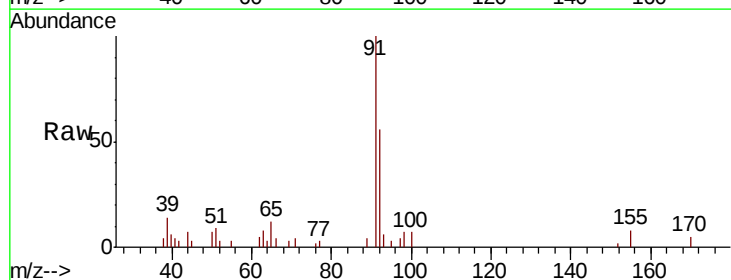
Acq: 15 Nov 2020 15:16

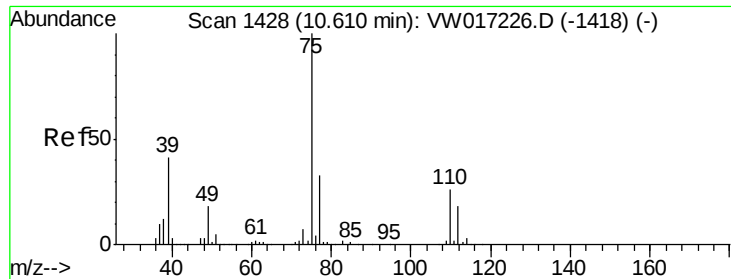
Tgt Ion: 91 Resp: 4615

Ion Ratio Lower Upper

91 100

92 55.8 41.4 76.8





#45

trans-1,3-Dichloropropene

Concen: 0.624 ug/L

RT: 10.59 min Scan# 1424

Delta R.T. -0.02 min

Lab File: VW017238.D

Acq: 15 Nov 2020 15:16

Instrument :

MSVOA_W

ClientSampled :

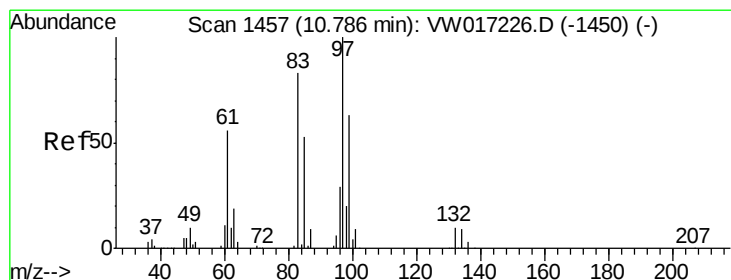
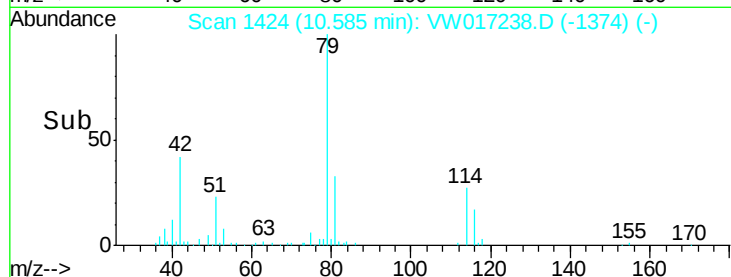
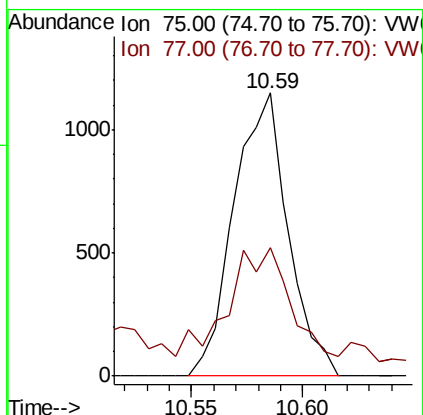
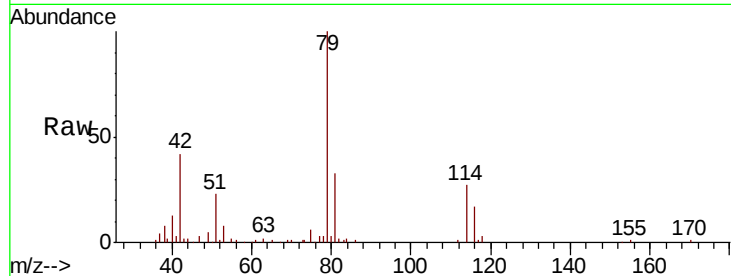
C0AC3

Tot Ion: 75 Resp: 1949

Ion Ratio Lower Upper

75 100

77 45.3 22.1 41.1#



#46

1,1,2-Trichloroethane

Concen: 0.465 ug/L

RT: 10.77 min Scan# 1455

Delta R.T. -0.01 min

Lab File: VW017238.D

Acq: 15 Nov 2020 15:16

Tgt Ion: 97 Resp: 920

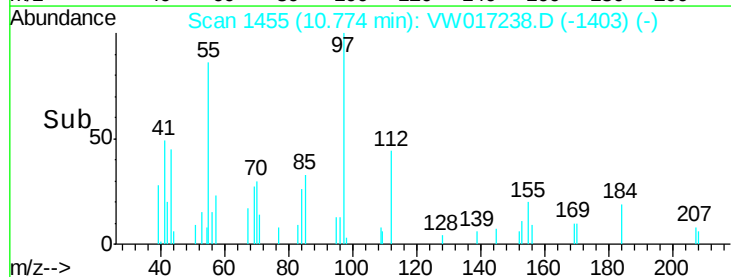
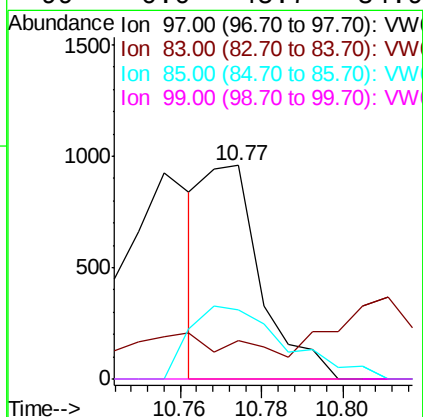
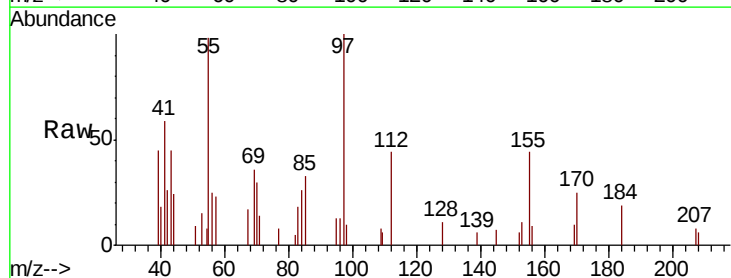
Ion Ratio Lower Upper

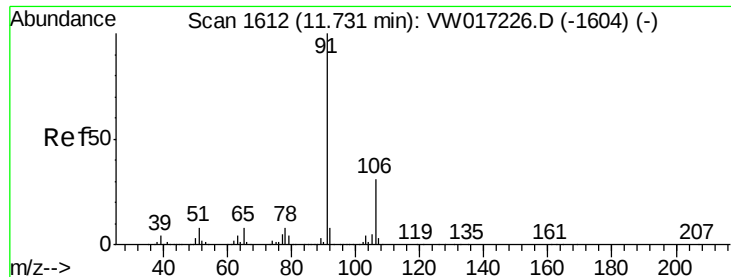
97 100

83 17.9 57.3 106.5#

85 32.6 37.2 69.0#

99 0.0 45.7 84.9#

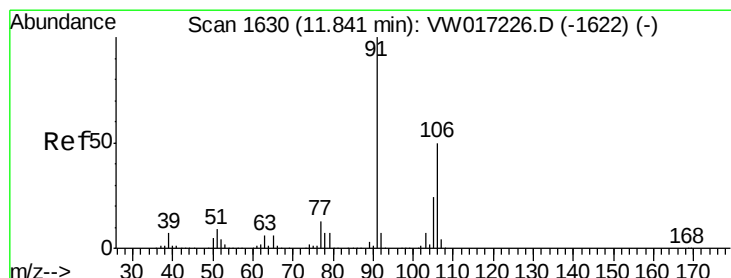
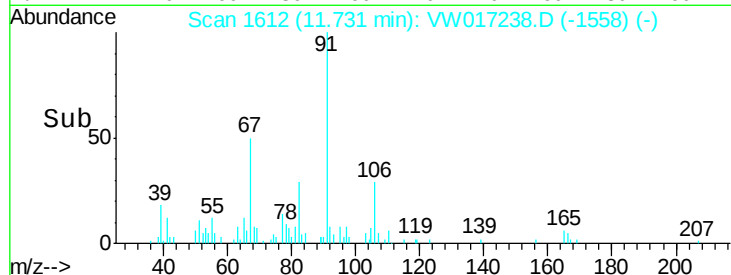
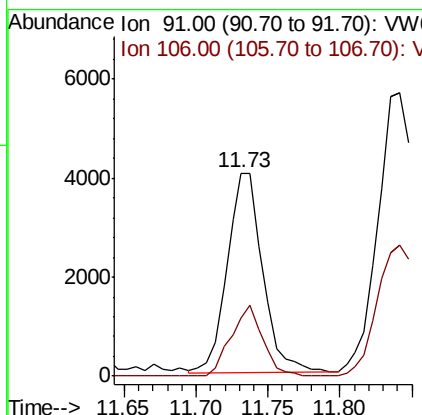
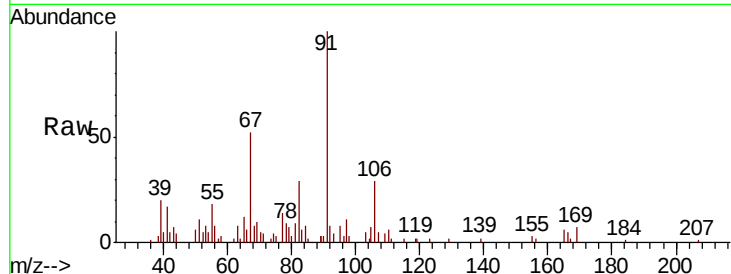




#53
Ethylbenzene
Concen: 0.577 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW017238.D
Acq: 15 Nov 2020 15:16

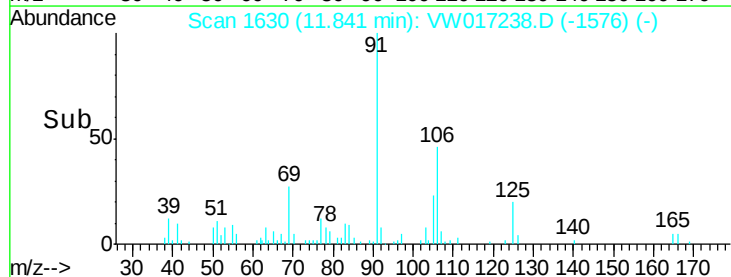
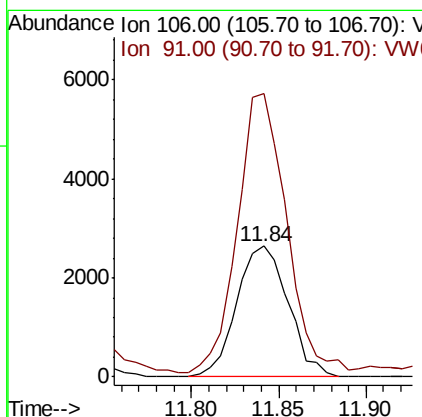
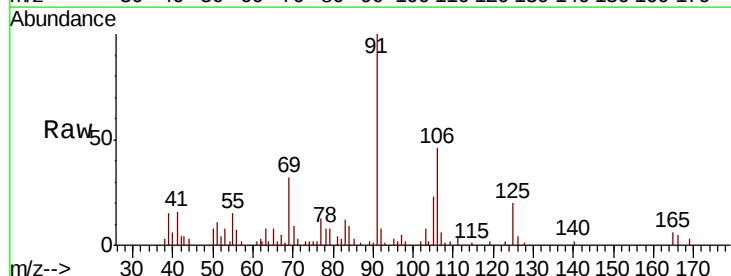
Instrument :
MSVOA_W
ClientSampleId :
C0AC3

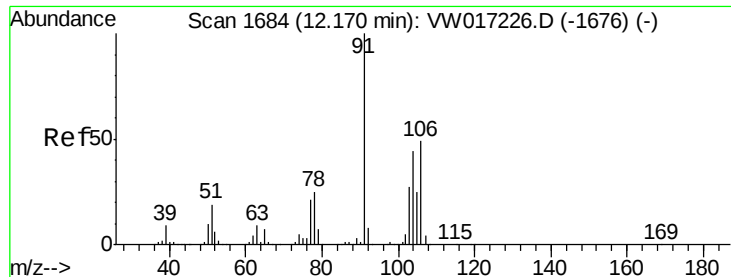
Tot Ion: 91 Resp: 6974
Ion Ratio Lower Upper
91 100
106 28.5 22.9 42.5



#54
m,p-Xylene
Concen: 1.142 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW017238.D
Acq: 15 Nov 2020 15:16

Tgt Ion: 106 Resp: 5397
Ion Ratio Lower Upper
106 100
91 216.6 138.7 257.5

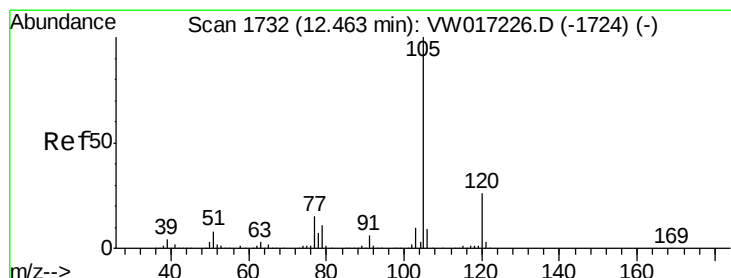
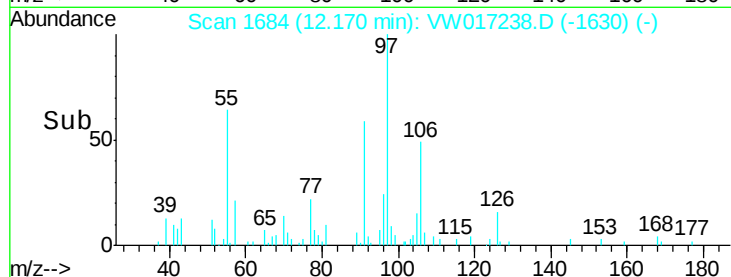
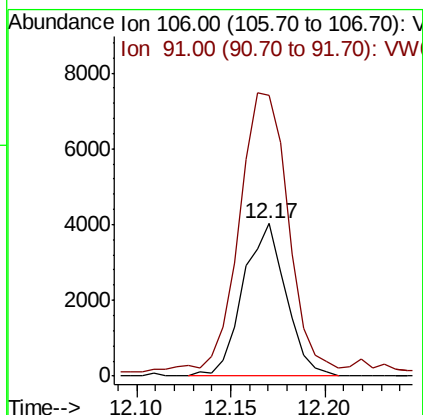
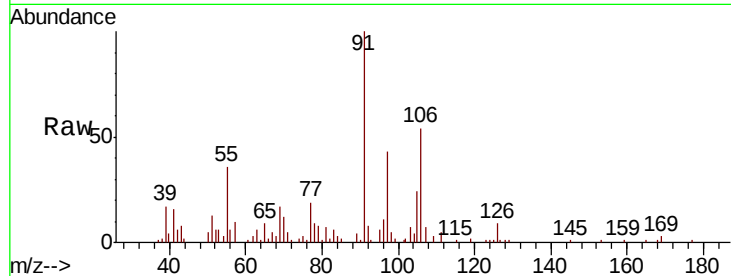




#55
o-xylene
Concen: 1.420 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW017238.D
Acq: 15 Nov 2020 15:16

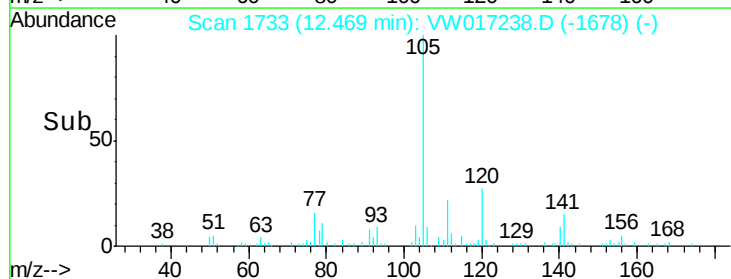
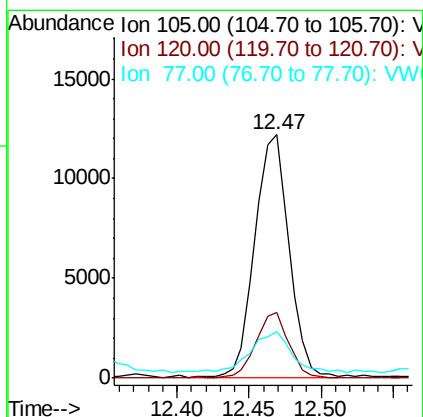
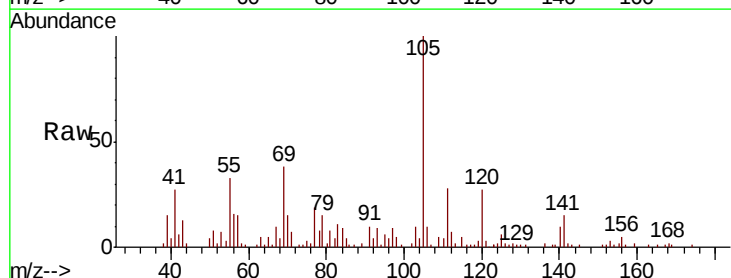
Instrument :
MSVOA_W
ClientSampled :
C0AC3

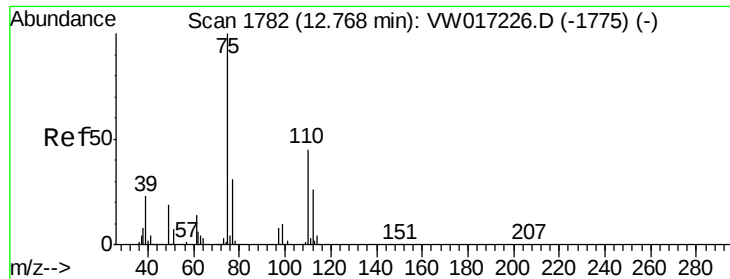
Tot Ion:106 Resp: 6370
Ion Ratio Lower Upper
106 100
91 184.1 140.8 261.4



#57
Isopropylbenzene
Concen: 1.660 ug/L
RT: 12.47 min Scan# 1733
Delta R.T. 0.01 min
Lab File: VW017238.D
Acq: 15 Nov 2020 15:16

Tgt Ion:105 Resp: 20204
Ion Ratio Lower Upper
105 100
120 25.6 21.8 32.6
77 20.0 11.4 17.0#





#59

1,2,3-Trichloropropane

Concen: 0.417 ug/L

RT: 12.60 min Scan# 1755

Delta R.T. -0.16 min

Lab File: VW017238.D

Acq: 15 Nov 2020 15:16

Instrument :

MSVOA_W

ClientSampleId :

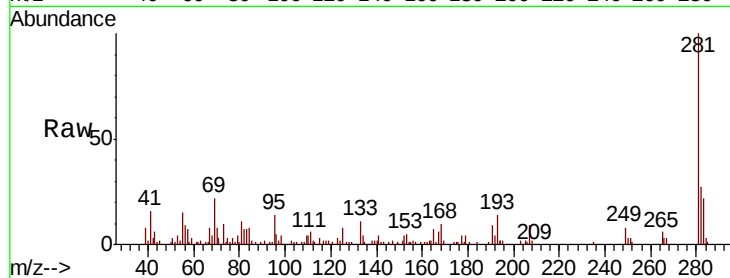
C0AC3

Tot Ion: 75 Resp: 685

Ion Ratio Lower Upper

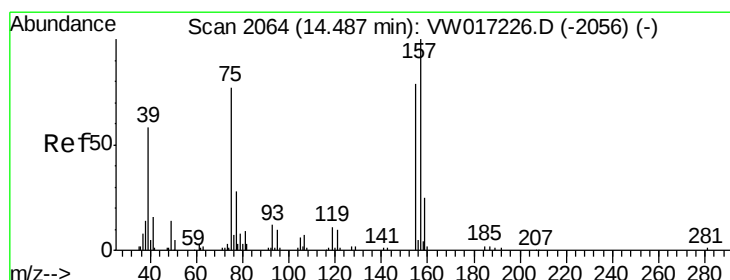
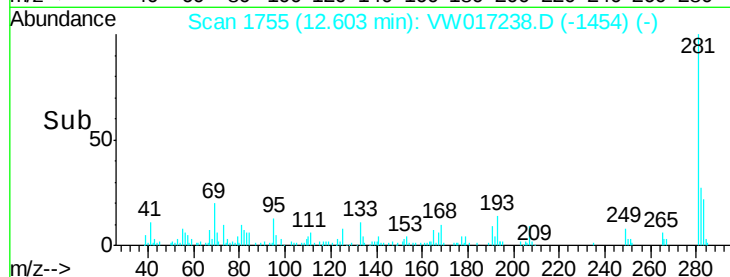
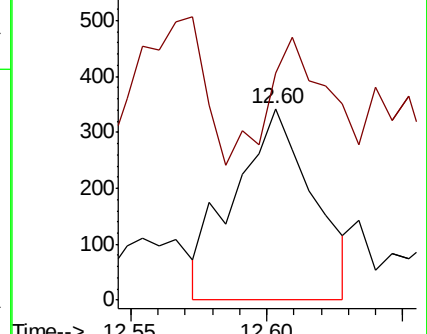
75 100

77 34.3 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#66

1,2-Dibromo-3-chloropropane

Concen: 117.163 ug/L

RT: 14.46 min Scan# 2059

Delta R.T. -0.03 min

Lab File: VW017238.D

Acq: 15 Nov 2020 15:16

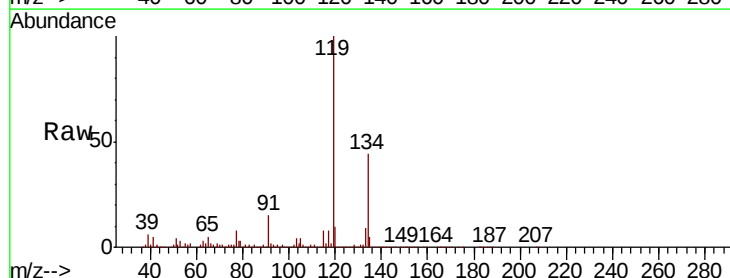
Tgt Ion: 75 Resp: 18515

Ion Ratio Lower Upper

75 100

157 0.0 108.2 162.4#

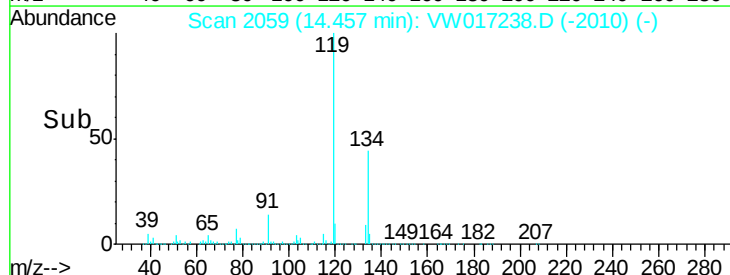
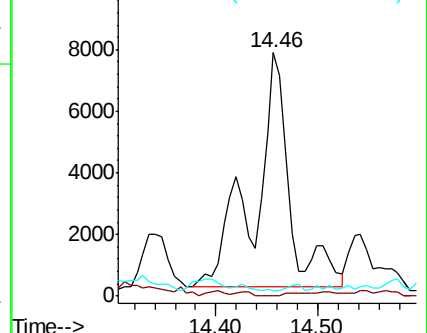
155 2.2 79.1 118.7#

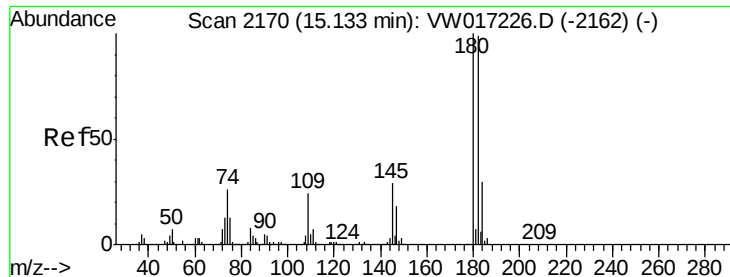


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

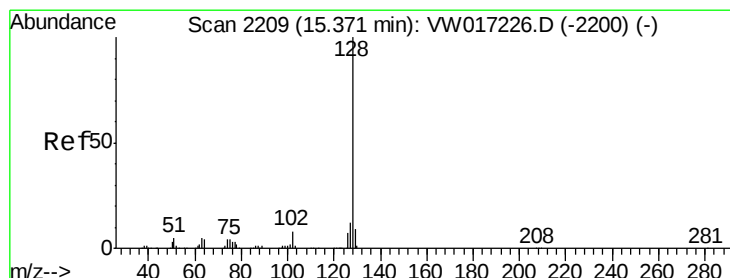
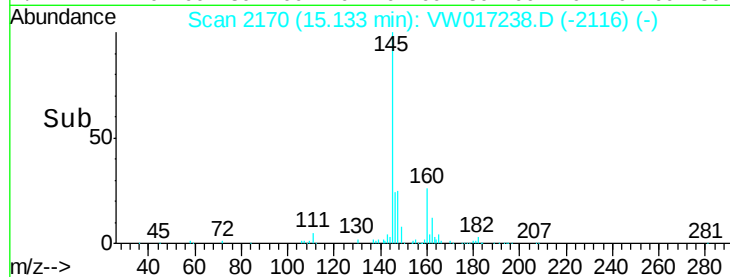
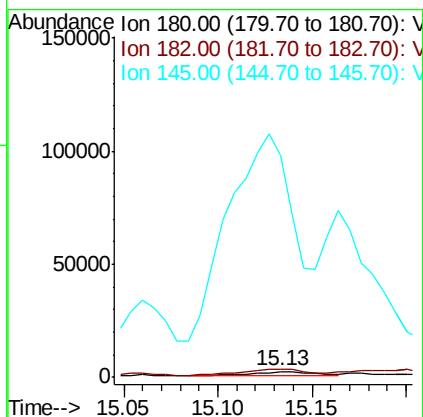
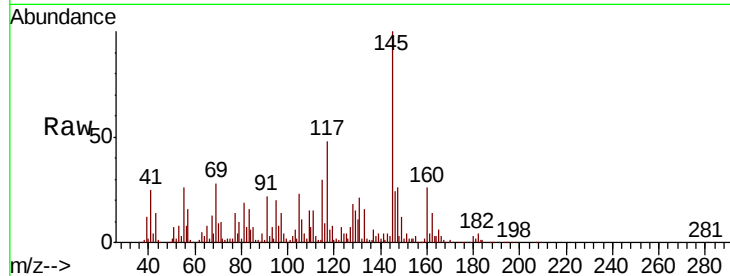




#68
1,2,4-trichlorobenzene
Concen: 2.872 ug/L
RT: 15.13 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VW017238.D
Acq: 15 Nov 2020 15:16

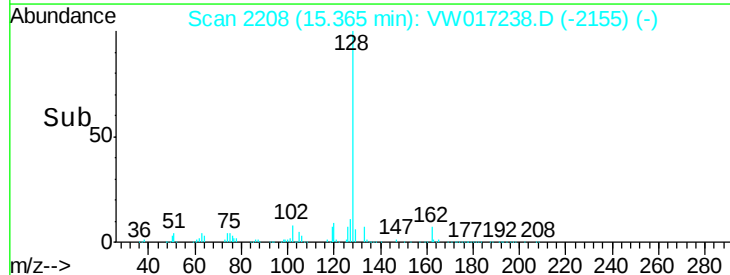
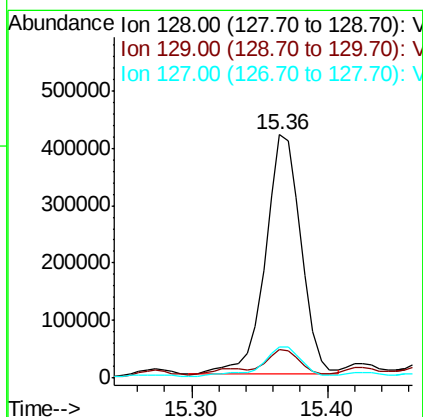
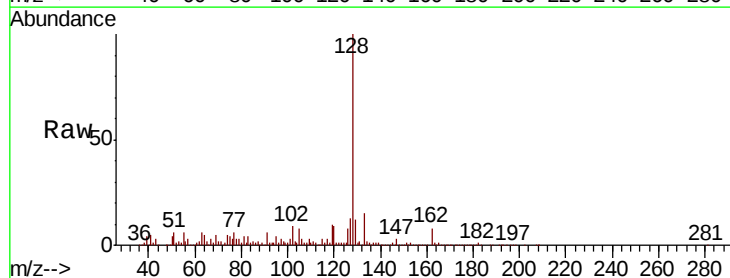
Instrument :
MSVOA_W
ClientSampled :
C0AC3

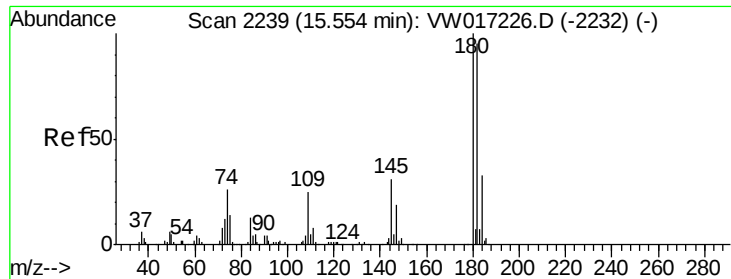
Tot Ion:180 Resp: 4476
Ion Ratio Lower Upper
180 100
182 144.3 76.7 115.1#
145 6380.5 23.6 35.4#



#69
Naphthalene
Concen: 265.460 ug/L
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW017238.D
Acq: 15 Nov 2020 15:16

Tgt Ion:128 Resp: 761408
Ion Ratio Lower Upper
128 100
129 9.2 8.6 12.8
127 13.3 10.2 15.2

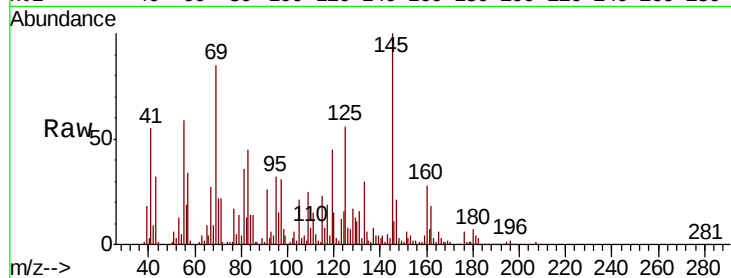




#70
 1,2,3-Trichlorobenzene
 Concen: 2.481 ug/L
 RT: 15.57 min Scan# 2242
 Delta R.T. 0.02 min
 Lab File: VW017238.D
 Acq: 15 Nov 2020 15:16

Instrument :
 MSVOA_W
 ClientSampleId :
 C0AC3

Tot Ion:180 Resp: 3533
 Ion Ratio Lower Upper
 180 100
 182 139.2 75.5 113.3#
 145 6496.2 24.5 36.7#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

