

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040820\
 Data File : VW015167.D
 Acq On : 08 Apr 2020 13:34
 Operator : SY/VA
 Sample : L2176-05
 Misc : 5.48G/10ML/MSVOA W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BG2J1

Quant Time: Apr 09 01:21:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM032520S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 09 01:17:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	285481	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	259593	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	107296	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	101162	20.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.08%
7) Chloroethane-d5	2.90	69	99094	24.37	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.48%
10) 1,1-Dichloroethene-d2	4.02	63	152733	15.41	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	61.64%
20) 2-Butanone-d5	7.08	46	56400	50.26	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	100.52%
24) Chloroform-d	7.65	84	201107	23.58	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.32%
26) 1,2-Dichloroethane-d4	8.31	65	122442	24.78	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.12%
29) Benzene-d6	8.27	84	396619	23.87	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.48%
33) 1,2-Dichloropropane-d6	9.27	67	148376	26.88	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	107.52%
37) Toluene-d8	10.32	98	443902	31.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	125.40%
38) trans-1,3-Dichloropropene-	10.58	79	50584	23.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.80%
39) 2-Hexanone-d5	10.93	63	42292	51.88	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	103.76%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	89797	23.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.16%
61) 1,2-Dichlorobenzene-d4	13.85	152	86015	23.04	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.16%

Target Compounds

					Ovalue
13) Acetone	4.13	43	13273	13.252	ug/L 96
30) Cyclohexane	7.96	56	35841	4.232	ug/L 99
36) Methylcyclohexane	9.34	83	728135	90.658	ug/L 91
40) 1,2-Dichloropropane	9.34	63	6906	1.304	ug/L # 1
42) cis-1,3-Dichloropropene	10.04	75	3791	0.545	ug/L # 58
43) 4-Methyl-2-pentanone	10.21	43	15623	5.214	ug/L # 88
44) Toluene	10.39	91	20709	1.091	ug/L 91
46) 1,1,2-Trichloroethane	10.76	97	269090	86.434	ug/L # 19
49) 2-Hexanone	10.93	43	190154	95.154	ug/L # 27
53) Ethylbenzene	11.73	91	34386	1.676	ug/L 97
54) m,p-Xylene	11.84	106	121901	16.952	ug/L 97
55) o-xylene	12.16	106	71603	10.621	ug/L 89
56) Styrene	12.17	104	4482	0.391	ug/L # 1
57) Isopropylbenzene	12.46	105	238008	12.814	ug/L # 95
58) 1,1,2,2-Tetrachloroethane	12.69	83	36984	9.491	ug/L # 55
64) 1,4-Dichlorobenzene	13.58	146	2723	0.378	ug/L # 1
66) 1,2-Dibromo-3-chloropropan	14.46	75	1478	2.425	ug/L # 18

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Quant Title : VOC Analysis
QLast Update : Thu Apr 09 01:17:46 2020
Response via : Initial Calibration

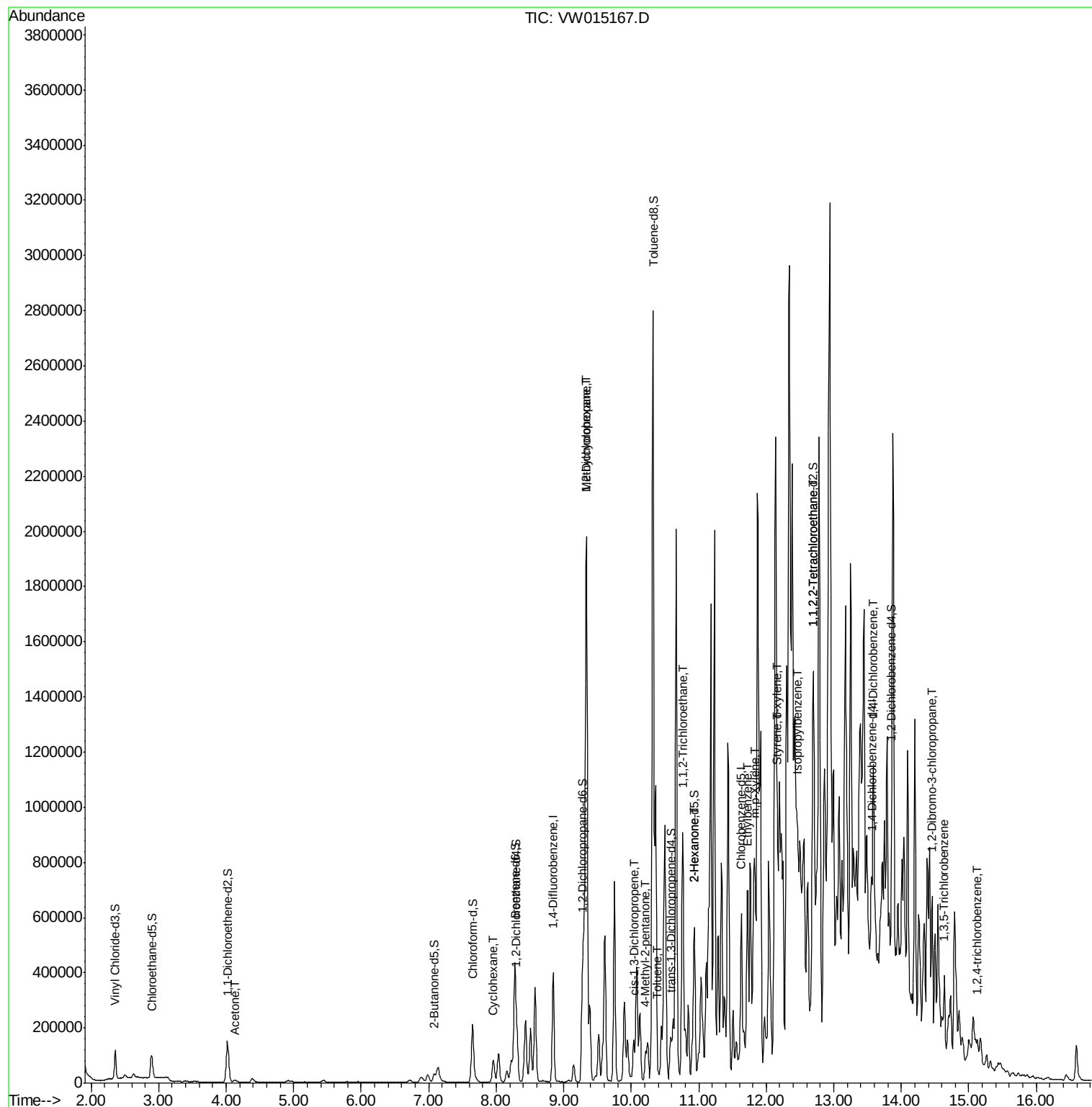
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	14.63	180	2097	0.463	ug/L #	67
68) 1,2,4-trichlorobenzene	15.13	180	7930	2.324	ug/L #	1

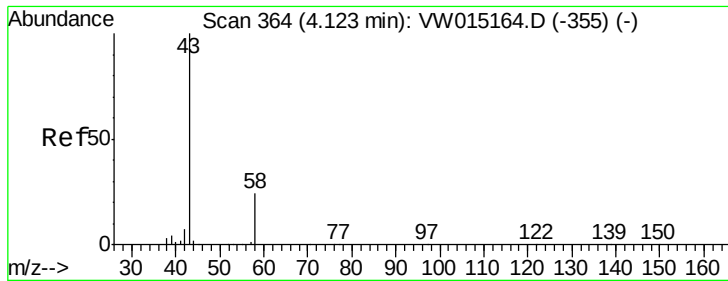
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 13.252 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Instrument :

MSVOA_W

ClientSampled :

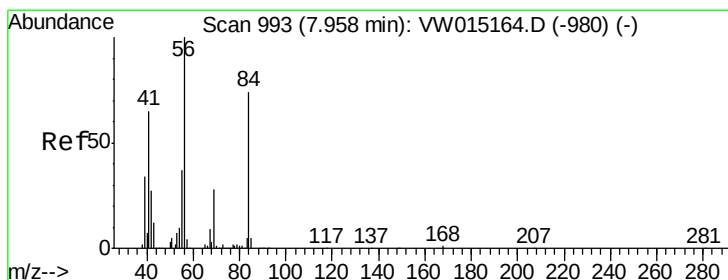
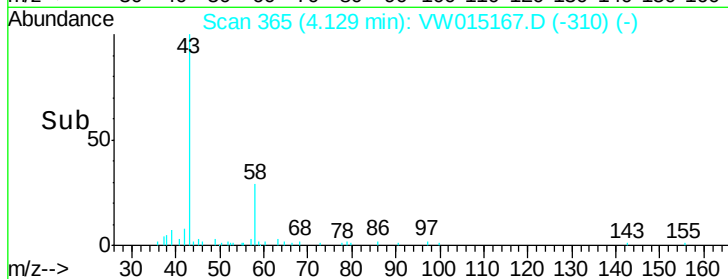
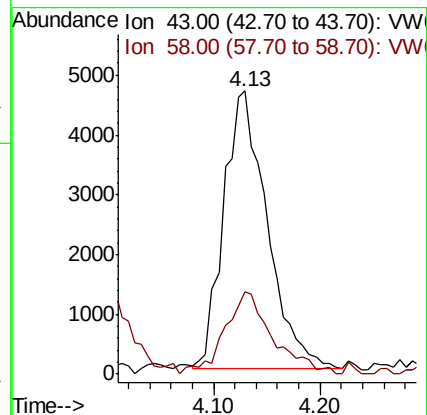
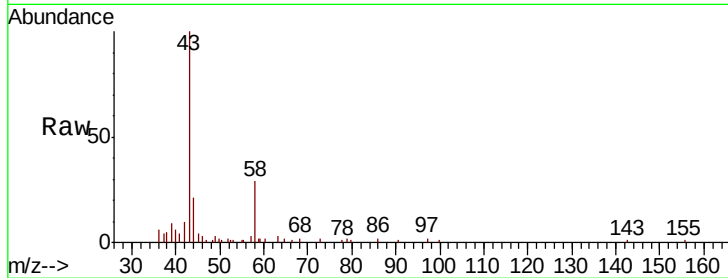
BG2J1

Tot Ion: 43 Resp: 13273

Ion Ratio Lower Upper

43 100

58 24.9 0.0 54.4



#30

Cyclohexane

Concen: 4.232 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

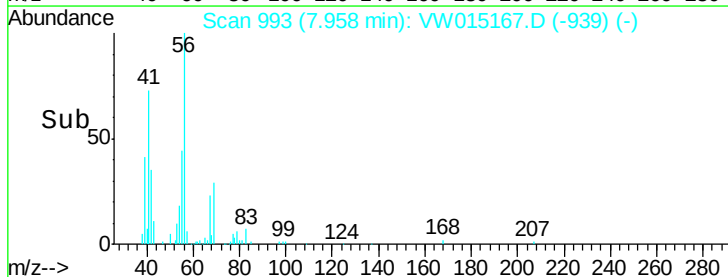
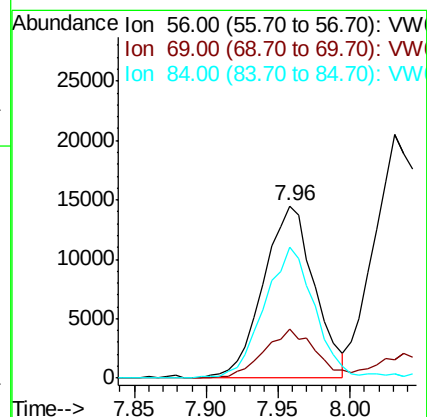
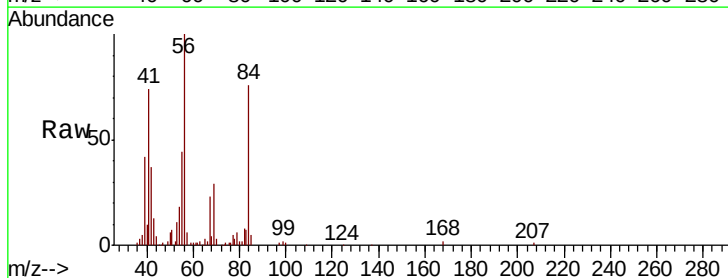
Tgt Ion: 56 Resp: 35841

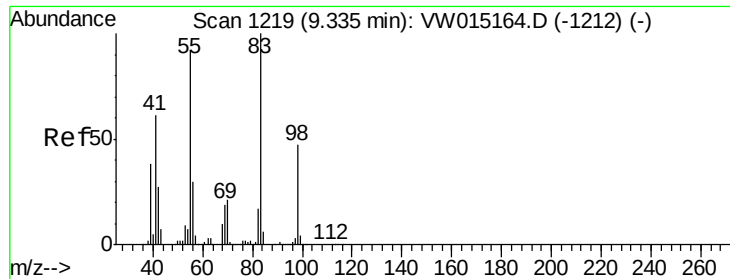
Ion Ratio Lower Upper

56 100

69 28.8 22.0 33.0

84 73.9 58.9 88.3

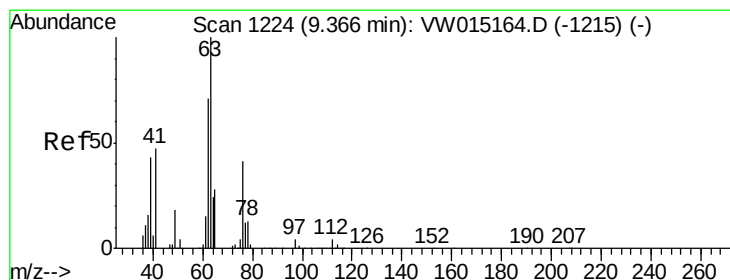
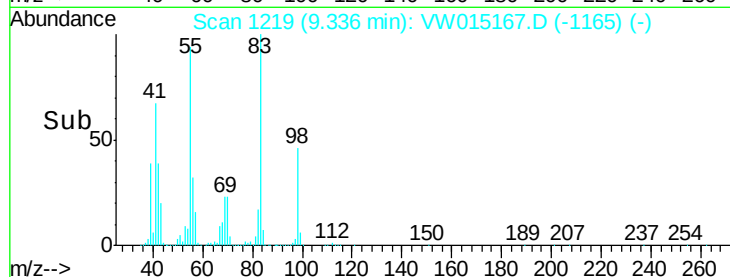
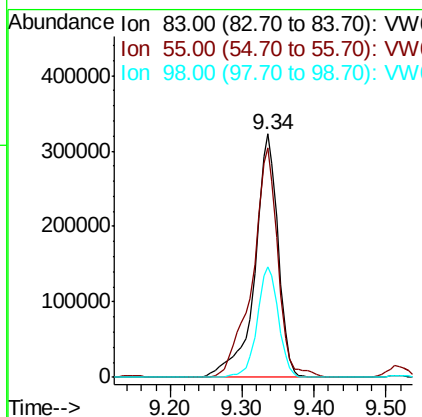
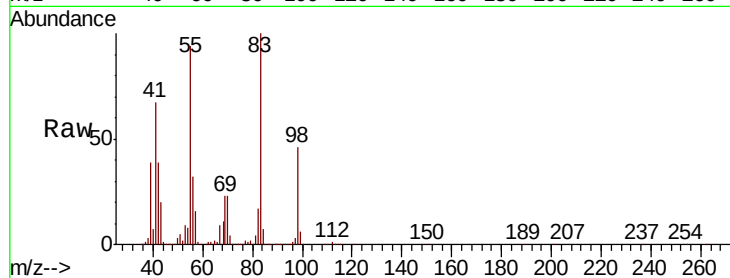




#36
Methylcyclohexane
Concen: 90.658 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015167.D
Acq: 08 Apr 2020 13:34

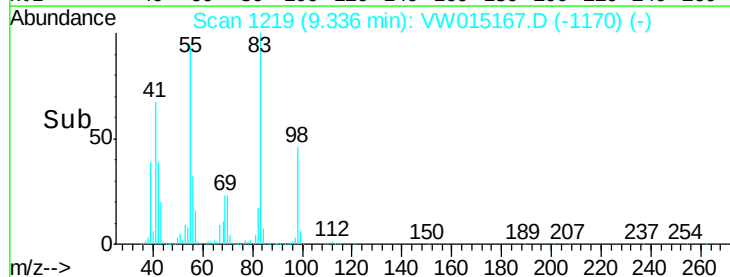
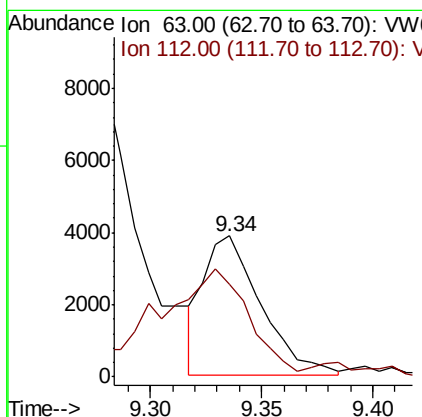
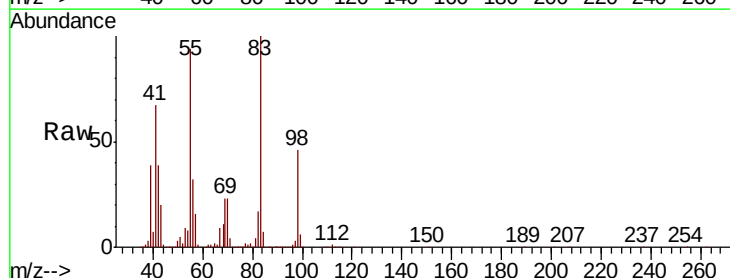
Instrument :
MSVOA_W
ClientSampleId :
BG2J1

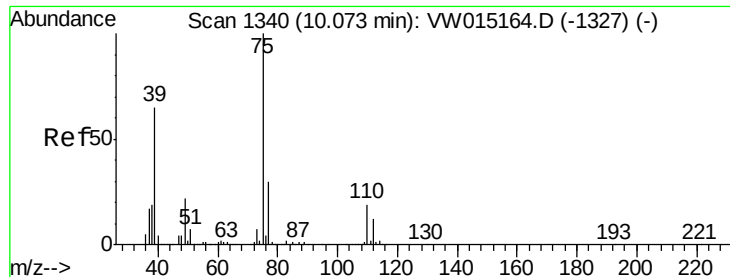
Tot Ion: 83 Resp: 728135
Ion Ratio Lower Upper
83 100
55 100.9 73.4 110.2
98 41.3 36.6 55.0



#40
1,2-Dichloropropane
Concen: 1.304 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.03 min
Lab File: VW015167.D
Acq: 08 Apr 2020 13:34

Tgt Ion: 63 Resp: 6906
Ion Ratio Lower Upper
63 100
112 89.8 2.9 4.3#





#42

cis-1,3-Dichloropropene

Concen: 0.545 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Instrument :

MSVOA_W

ClientSampleId :

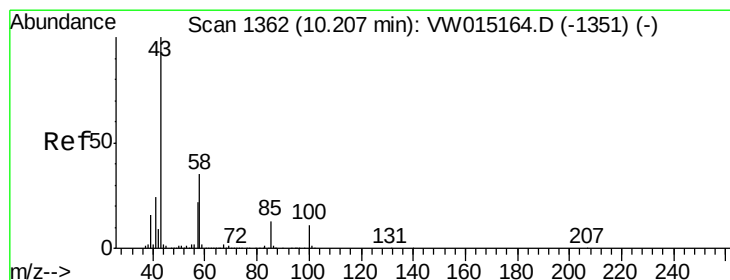
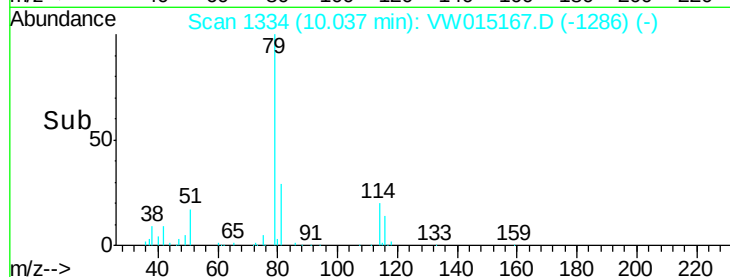
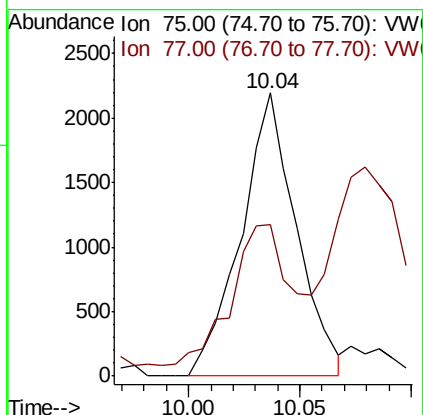
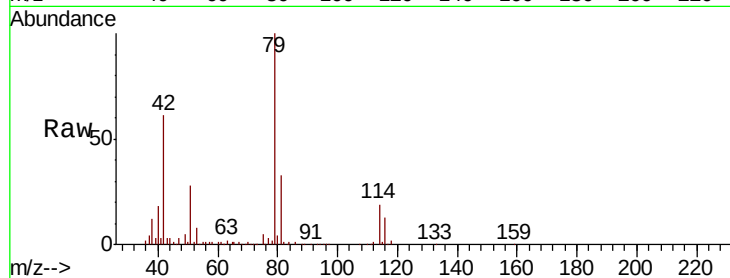
BG2J1

Tot Ion: 75 Resp: 3791

Ion Ratio Lower Upper

75 100

77 53.5 21.4 39.8#



#43

4-Methyl-2-pentanone

Concen: 5.214 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

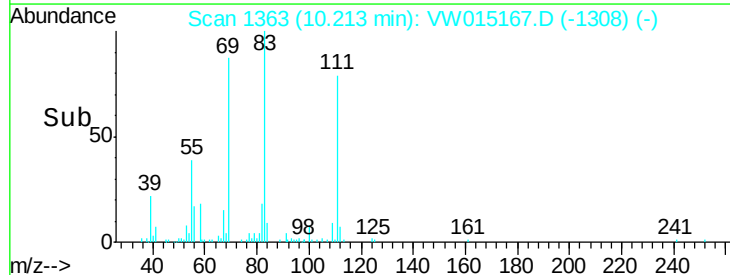
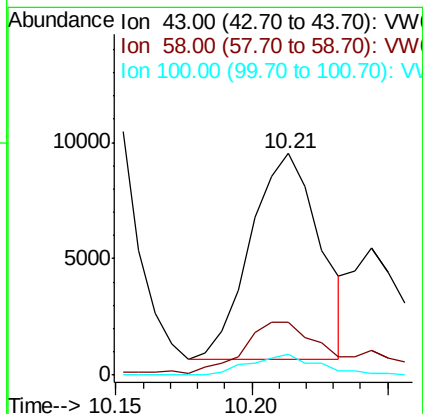
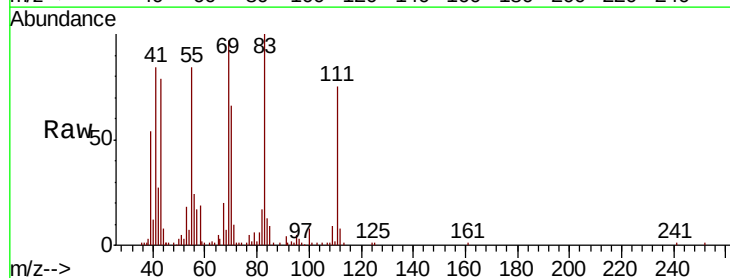
Tgt Ion: 43 Resp: 15623

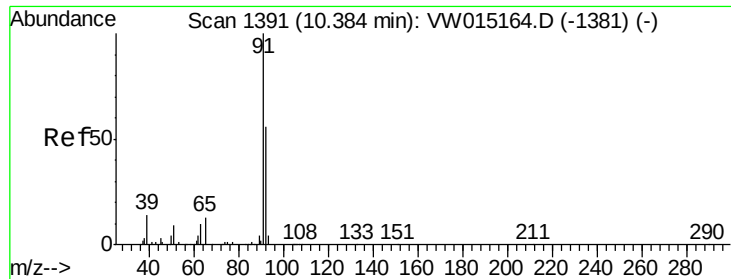
Ion Ratio Lower Upper

43 100

58 26.4 27.9 41.9#

100 9.9 8.9 13.3





#44

Toluene

Concen: 1.091 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Instrument :

MSVOA_W

ClientSampled :

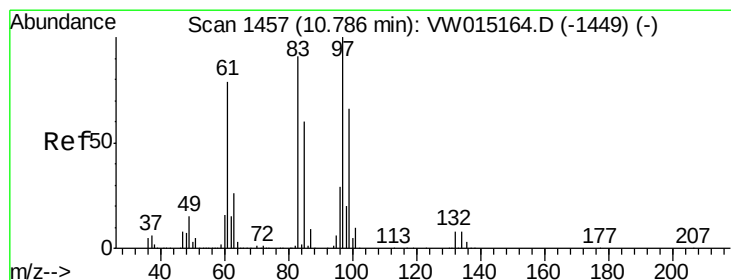
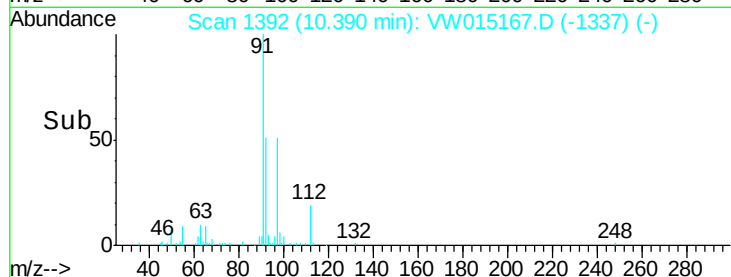
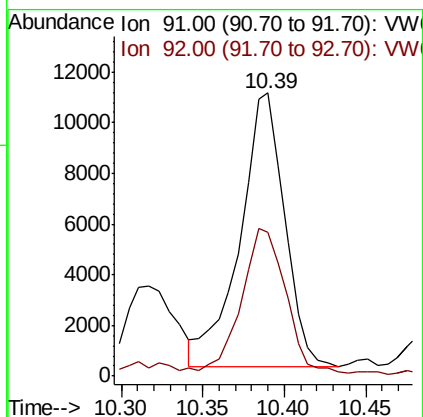
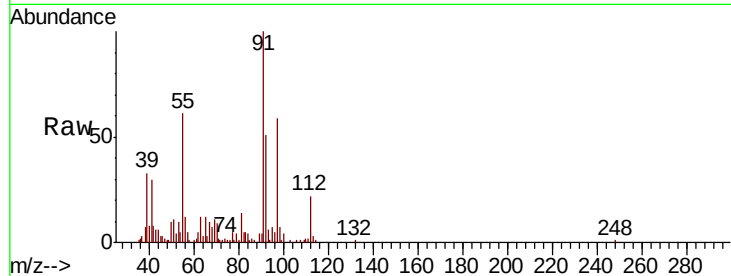
BG2J1

Tot Ion: 91 Resp: 20709

Ion Ratio Lower Upper

91 100

92 51.0 40.2 74.6



#46

1,1,2-Trichloroethane

Concen: 86.434 ug/L

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Tgt Ion: 97 Resp: 269090

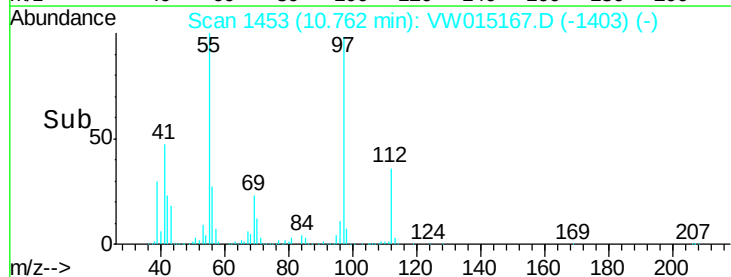
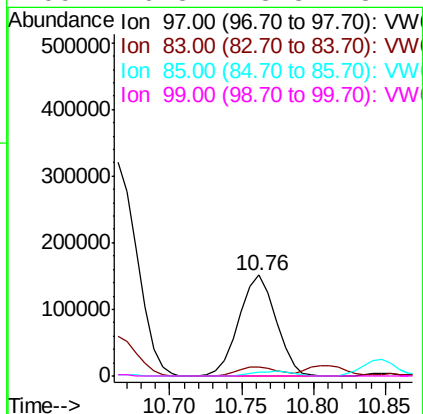
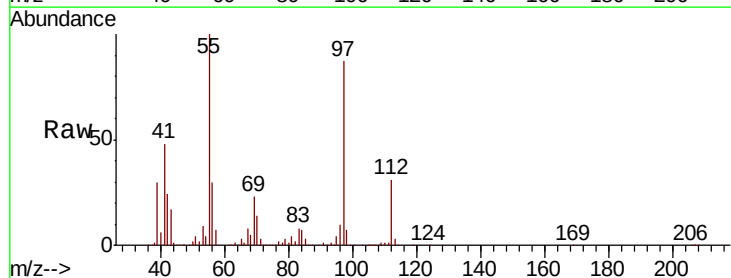
Ion Ratio Lower Upper

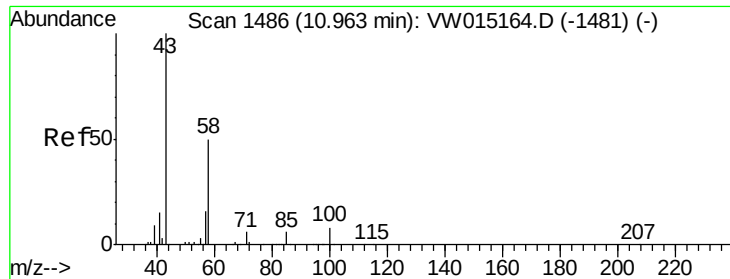
97 100

83 9.2 64.8 120.4#

85 3.5 40.9 75.9#

99 0.3 43.8 81.4#





#49

2-Hexanone

Concen: 95.154 ug/L

RT: 10.93 min Scan# 1481

Delta R.T. -0.03 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Instrument :

MSVOA_W

ClientSampleId :

BG2J1

Tot Ion: 43 Resp: 190154

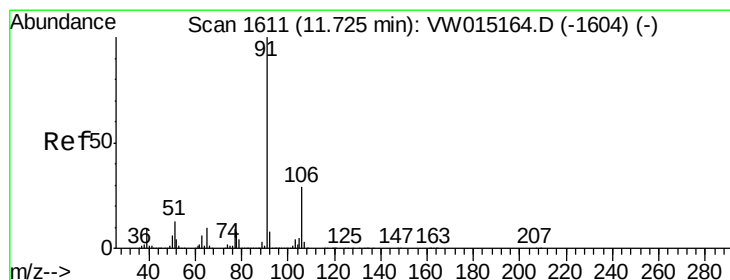
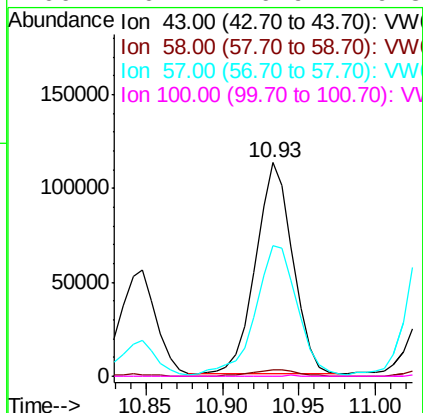
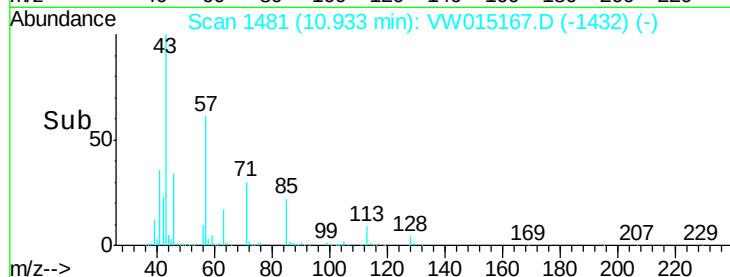
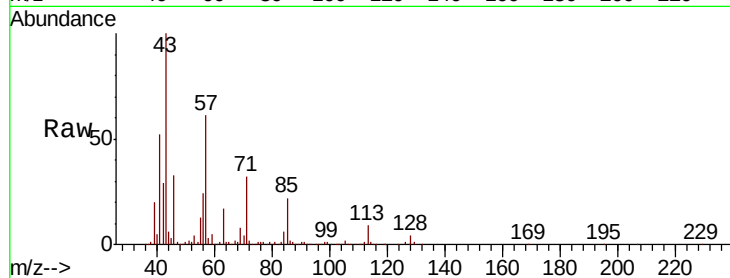
Ion Ratio Lower Upper

43 100

58 3.6 38.5 57.7#

57 67.8 12.9 19.3#

100 0.2 6.9 10.3#



#53

Ethylbenzene

Concen: 1.676 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.01 min

Lab File: VW015167.D

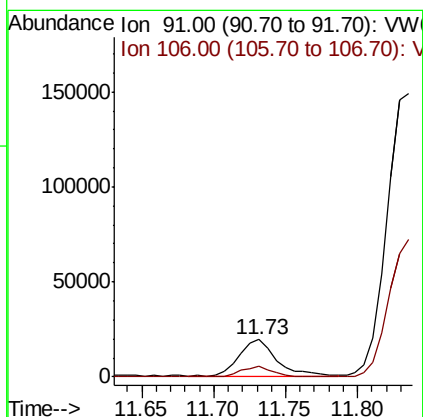
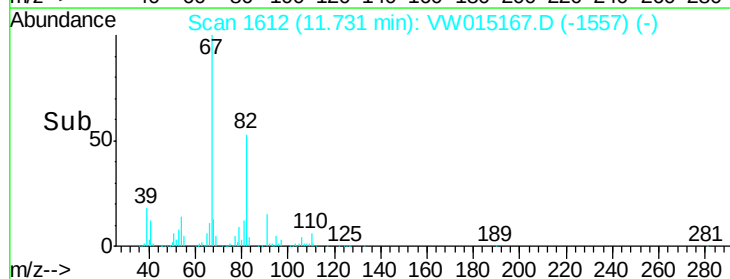
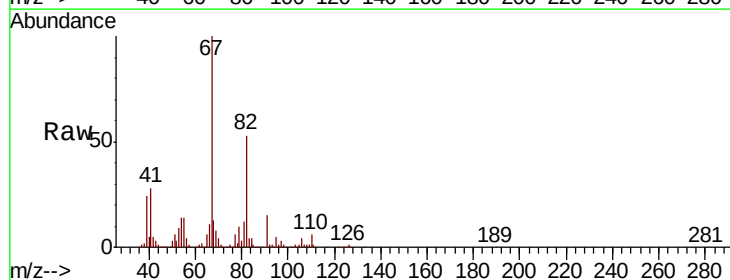
Acq: 08 Apr 2020 13:34

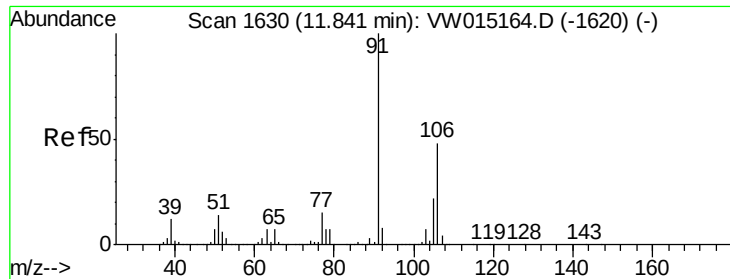
Tgt Ion: 91 Resp: 34386

Ion Ratio Lower Upper

91 100

106 27.7 20.6 38.2





#54

m,p-Xylene

Concen: 16.952 ug/L

RT: 11.84 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Instrument :

MSVOA_W

ClientSampled :

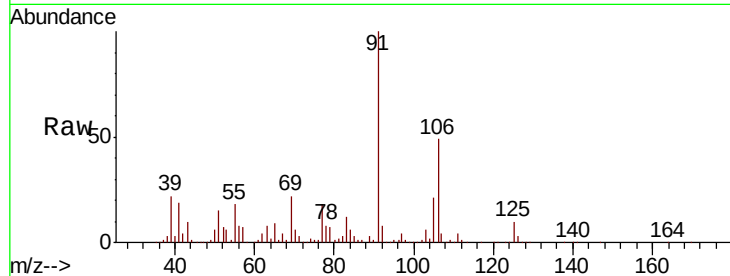
BG2J1

Tot Ion:106 Resp: 121901

Ion Ratio Lower Upper

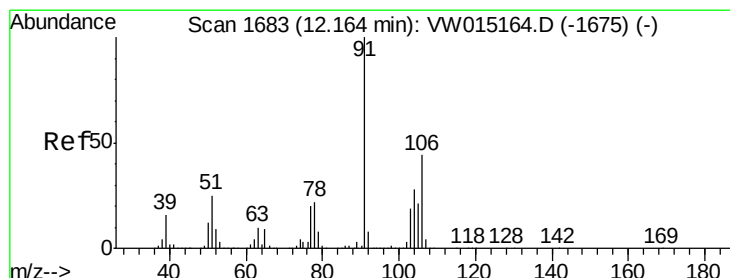
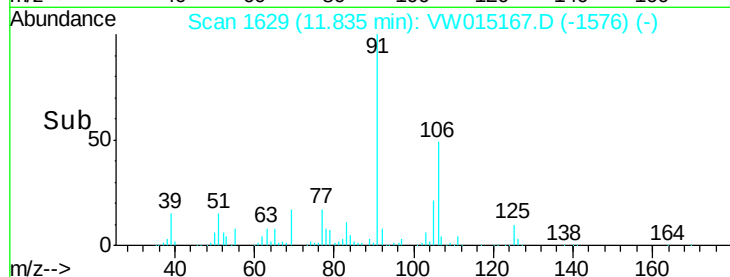
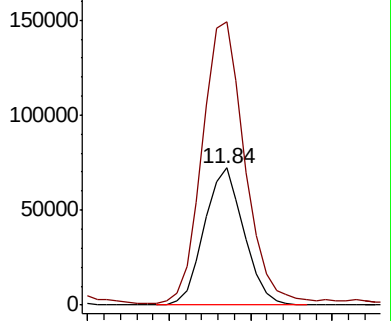
106 100

91 206.1 147.3 273.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 10.621 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW015167.D

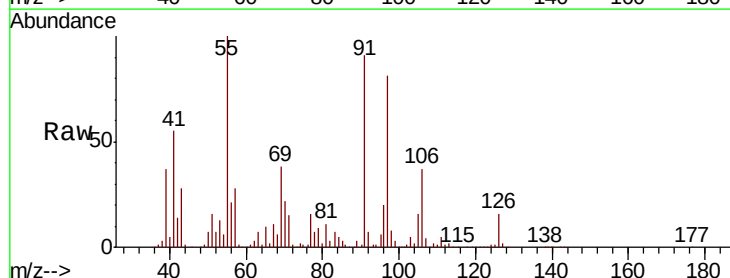
Acq: 08 Apr 2020 13:34

Tgt Ion:106 Resp: 71603

Ion Ratio Lower Upper

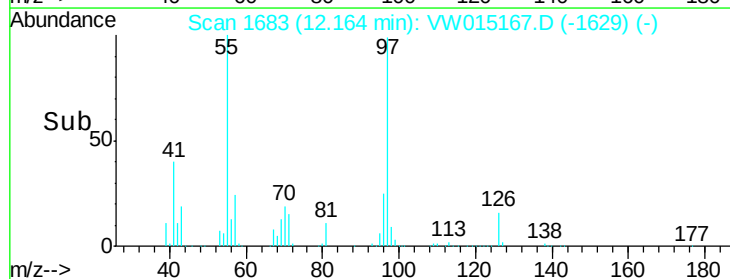
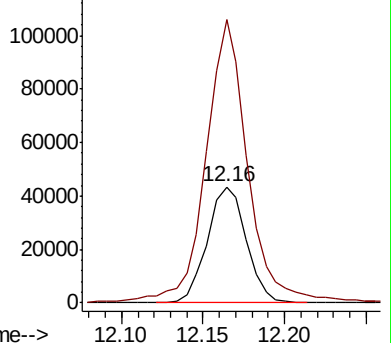
106 100

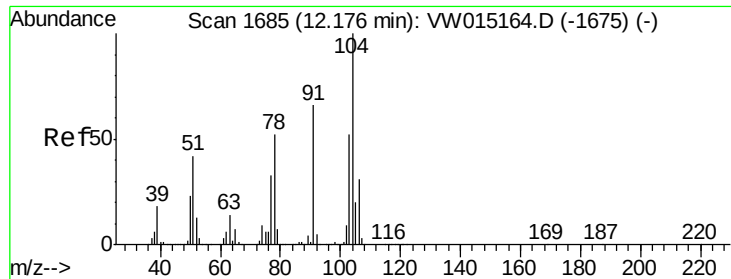
91 244.4 158.6 294.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 0.391 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Instrument :

MSVOA_W

ClientSampleId :

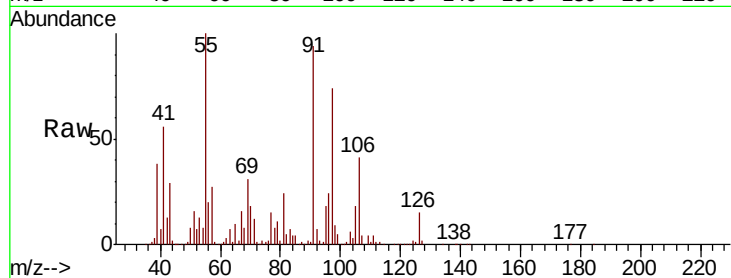
BG2J1

Tot Ion:104 Resp: 4482

Ion Ratio Lower Upper

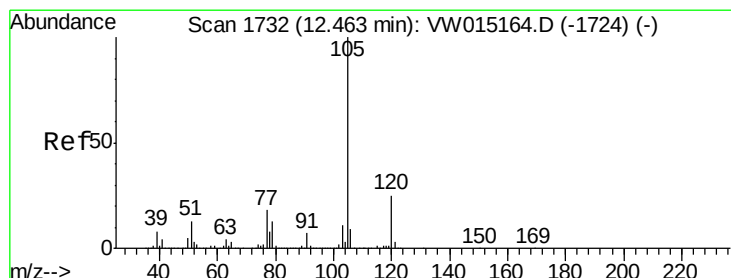
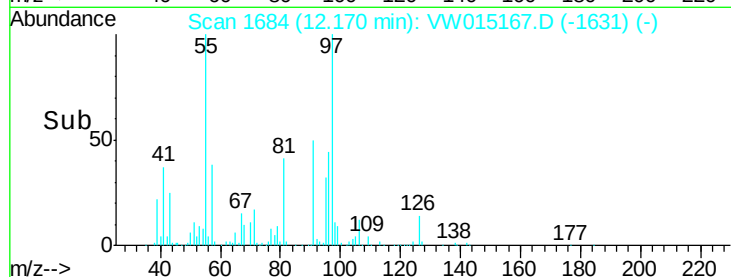
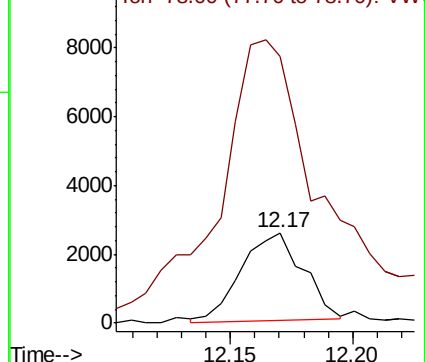
104 100

78 295.7 33.9 63.0#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V



#57

Isopropylbenzene

Concen: 12.814 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

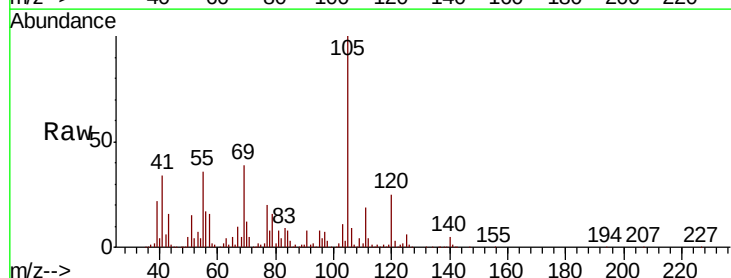
Tgt Ion:105 Resp: 238008

Ion Ratio Lower Upper

105 100

120 25.2 20.0 30.0

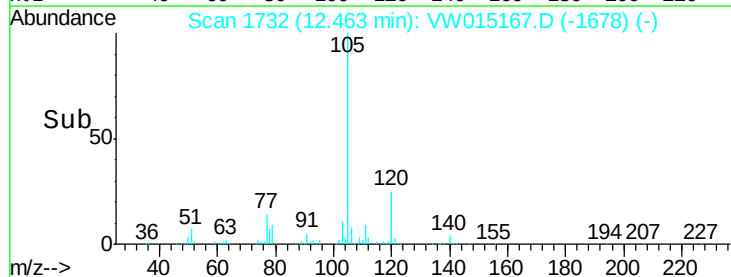
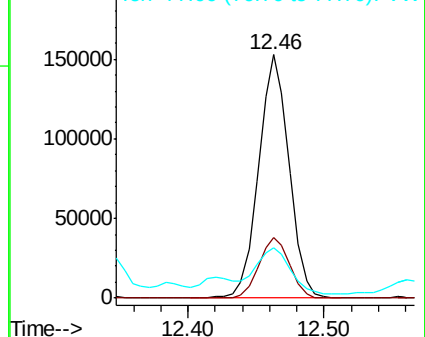
77 22.8 14.5 21.7#

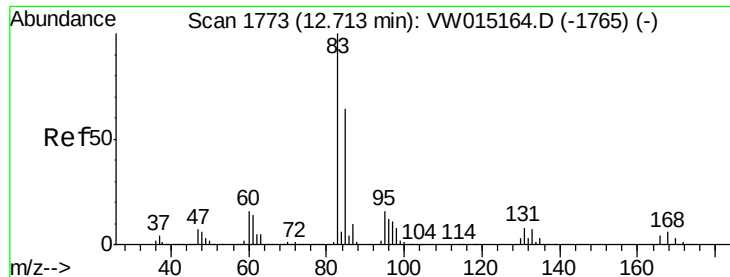


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 9.491 ug/L

RT: 12.69 min Scan# 1769

Delta R.T. -0.02 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Instrument :

MSVOA_W

ClientSampleId :

BG2J1

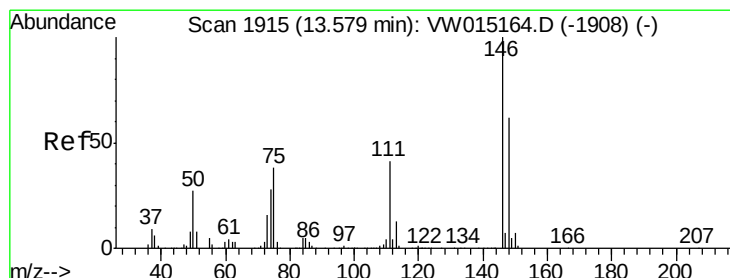
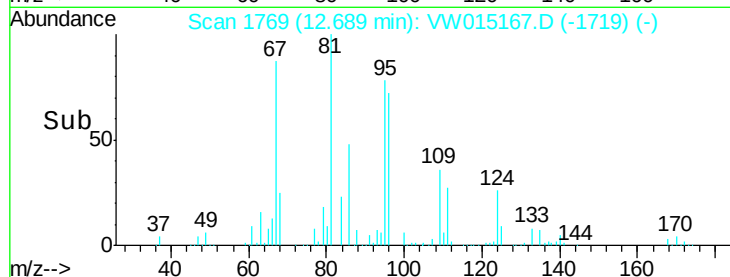
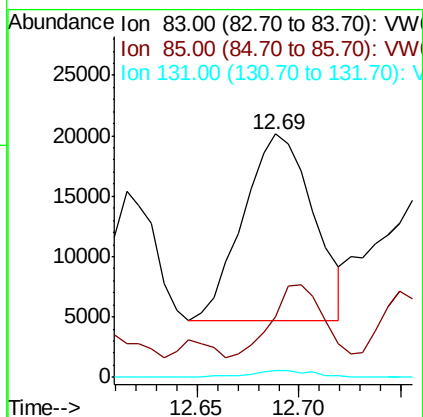
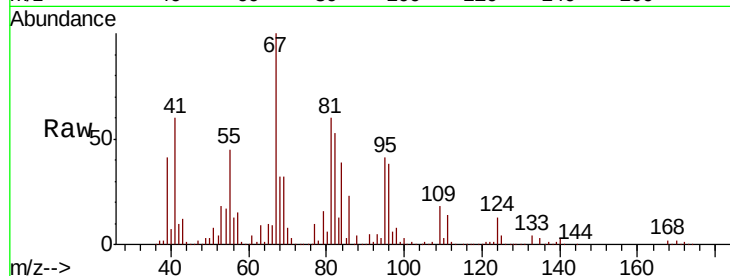
Tot Ion: 83 Resp: 36984

Ion Ratio Lower Upper

83 100

85 25.0 44.1 81.9#

131 2.7 5.9 8.9#



#64

1,4-Dichlorobenzene

Concen: 0.378 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

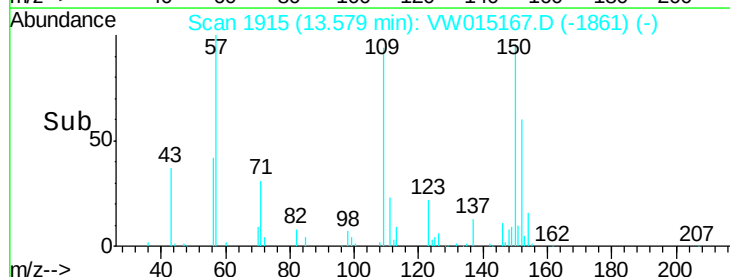
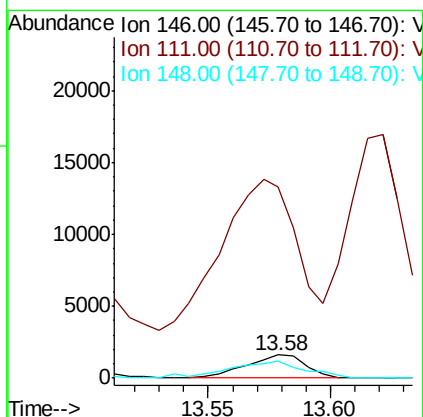
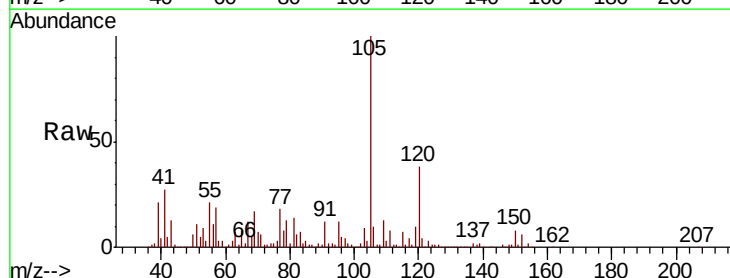
Tgt Ion: 146 Resp: 2723

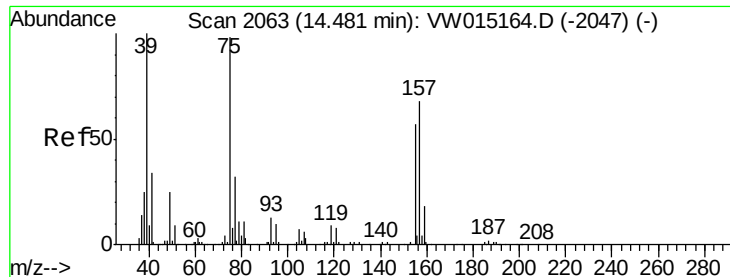
Ion Ratio Lower Upper

146 100

111 822.7 28.8 53.4#

148 71.4 44.0 81.6





#66

1,2-Dibromo-3-chloropropane

Concen: 2.425 ug/L

RT: 14.46 min Scan# 2059

Delta R.T. -0.02 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Instrument :

MSVOA_W

ClientSampleId :

BG2J1

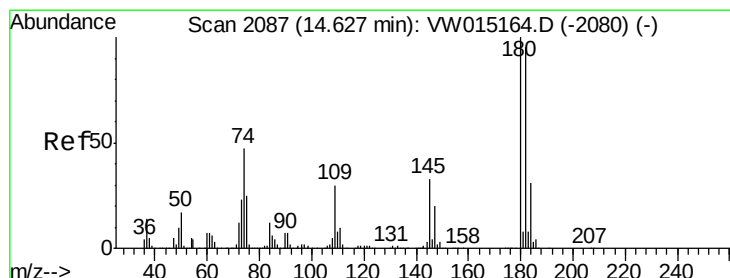
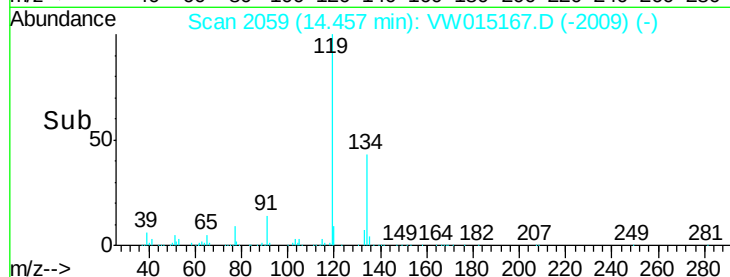
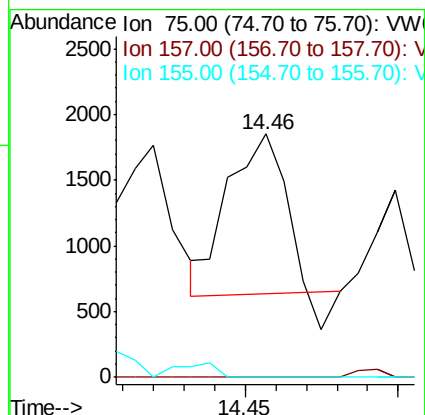
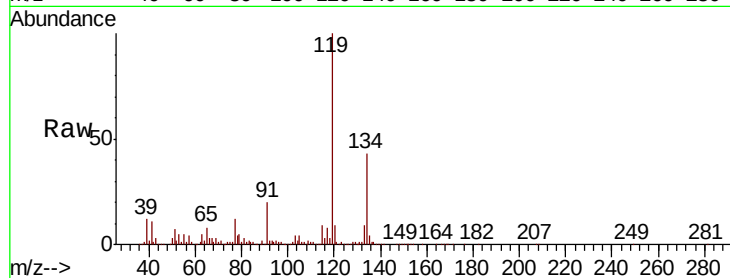
Tot Ion: 75 Resp: 1478

Ion Ratio Lower Upper

75 100

157 0.0 57.3 85.9#

155 0.0 43.2 64.8#



#67

1,3,5-Trichlorobenzene

Concen: 0.463 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VW015167.D

Acq: 08 Apr 2020 13:34

Tgt Ion: 180 Resp: 2097

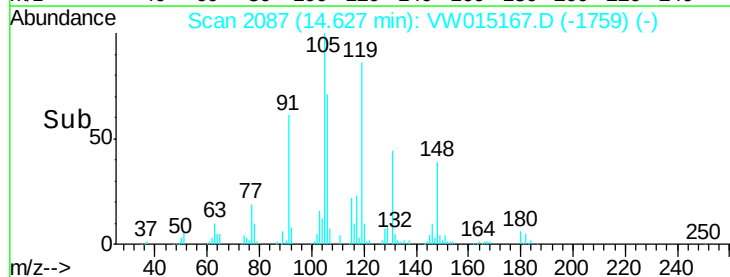
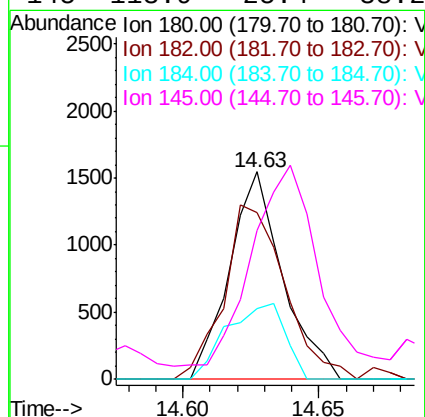
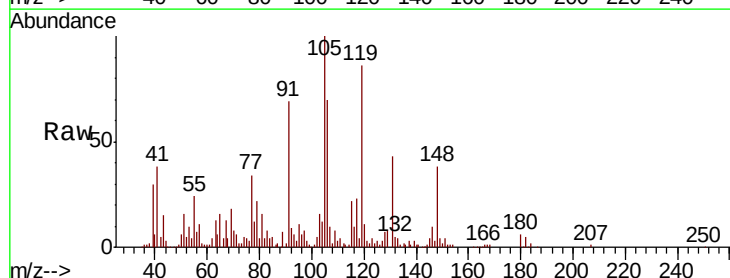
Ion Ratio Lower Upper

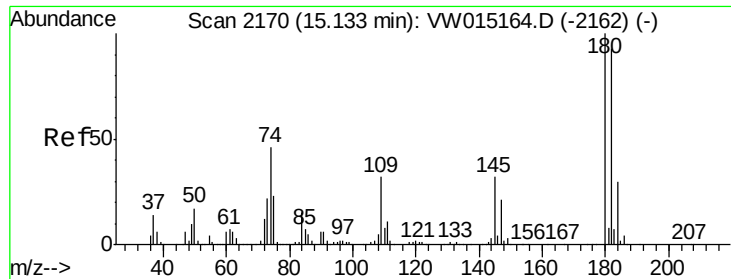
180 100

182 96.1 77.0 115.6

184 39.9 24.0 36.0#

145 113.9 25.4 38.2#





#68
 1,2,4-trichlorobenzene
 Concen: 2.324 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW015167.D
 Acq: 08 Apr 2020 13:34

Instrument :
 MSVOA_W
 ClientSampleId :
 BG2J1

Tot Ion:180 Resp: 7930
 Ion Ratio Lower Upper
 180 100
 182 99.3 75.8 113.6
 145 439.3 25.8 38.6#

