

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW040720\
 Data File : VW015160.D
 Acq On : 07 Apr 2020 13:54
 Operator : SY/VA
 Sample : L2176-02
 Misc : 4.09G/10ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 08 06:12:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM032520S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Apr 08 06:10:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	622254	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	598537	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.43	152	204068	25.00	ug/L	-0.12

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	207844	19.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.36%
7) Chloroethane-d5	2.89	69	195644	22.08	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.32%
10) 1,1-Dichloroethene-d2	4.02	63	316349	14.65	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	58.60%
20) 2-Butanone-d5	7.07	46	119789	48.97	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.94%
24) Chloroform-d	7.65	84	399875	21.51	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.04%
26) 1,2-Dichloroethane-d4	8.09	65	144	0.01	ug/L	-0.21
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.04%#
29) Benzene-d6	8.27	84	810368	21.15	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	84.60%
33) 1,2-Dichloropropane-d6	9.27	67	301279	23.67	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.68%
37) Toluene-d8	10.33	98	11190572	342.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	1370.88%#
38) trans-1,3-Dichloropropene-	10.58	79	123308	25.32	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	101.28%
39) 2-Hexanone-d5	10.93	63	157082	83.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	167.14%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	503322	57.83	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	231.32%#
61) 1,2-Dichlorobenzene-d4	13.86	152	257284	36.23	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	144.92%#

Target Compounds

					Ovalue
13) Acetone	4.13	43	28754	13.171	ug/L 97
16) Methylene chloride	4.91	84	23170	2.179	ug/L 93
30) Cyclohexane	7.96	56	583655	29.886	ug/L 96
36) Methylcyclohexane	9.52	83	70721	3.819	ug/L # 1
40) 1,2-Dichloropropane	9.34	63	289502	23.708	ug/L # 1
41) Bromodichloromethane	9.61	83	137513	9.898	ug/L # 1
43) 4-Methyl-2-pentanone	10.26	43	1100256	159.256	ug/L # 77
44) Toluene	10.33	91	623580	14.242	ug/L # 37
46) 1,1,2-Trichloroethane	10.76	97	3757066	523.404	ug/L # 24
49) 2-Hexanone	10.94	43	19327867	4194.764	ug/L # 20
50) Dibromochloromethane	11.35	129	24220	3.282	ug/L 90
51) 1,2-Dibromoethane	11.24	107	6606	1.039	ug/L # 1
52) Chlorobenzene	11.67	112	12051	0.471	ug/L # 1
53) Ethylbenzene	11.73	91	261805	5.536	ug/L # 83
54) m,p-Xylene	11.83	106	19609	1.183	ug/L # 1
55) o-xylene	12.16	106	9278	0.597	ug/L # 1
57) Isopropylbenzene	12.46	105	7887317	184.178	ug/L 96

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QLast Update : Wed Apr 08 06:10:31 2020
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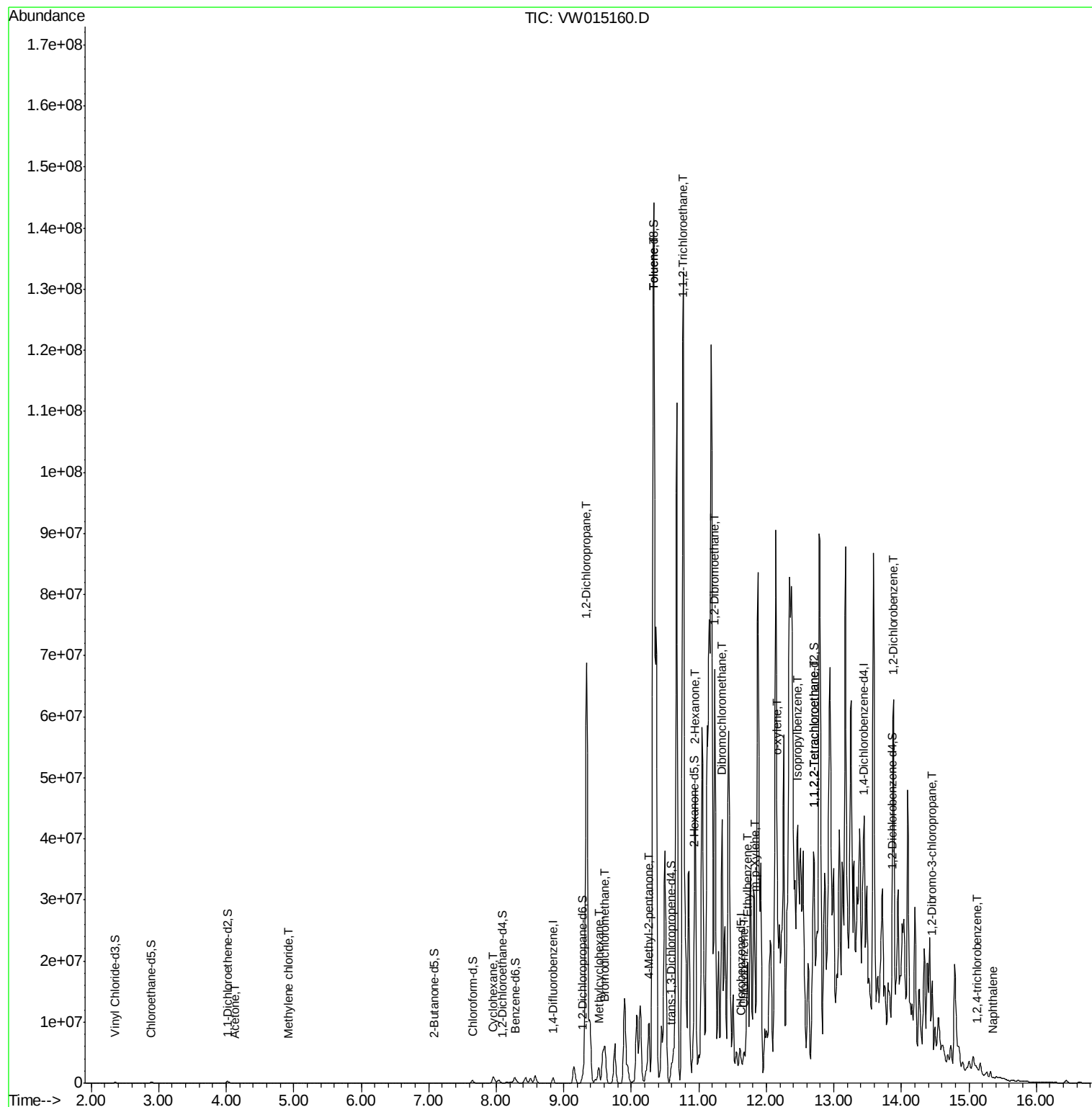
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	12.69	83	1657055	184.442	ug/L #	76
65) 1,2-Dichlorobenzene	13.87	146	10931	0.898	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.46	75	57531	49.622	ug/L #	20
68) 1,2,4-trichlorobenzene	15.12	180	2120	0.327	ug/L #	1
69) Naphthalene	15.36	128	210845	16.710	ug/L	97

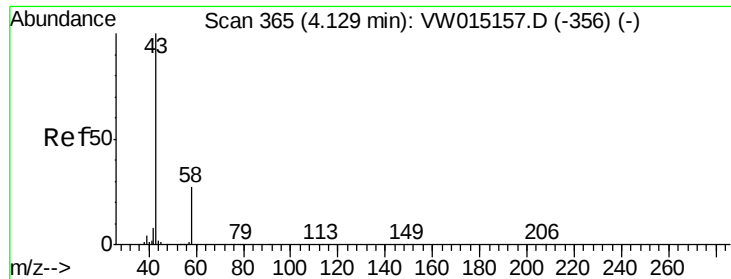
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 13.171 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

Instrument :

MSVOA_W

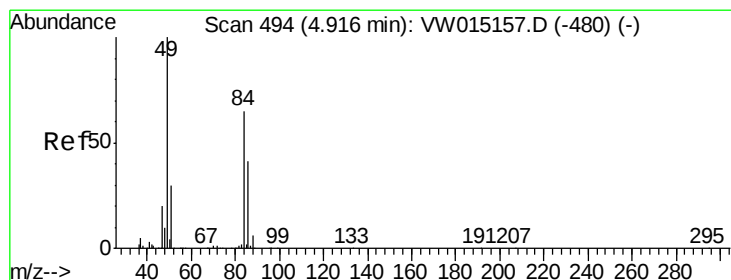
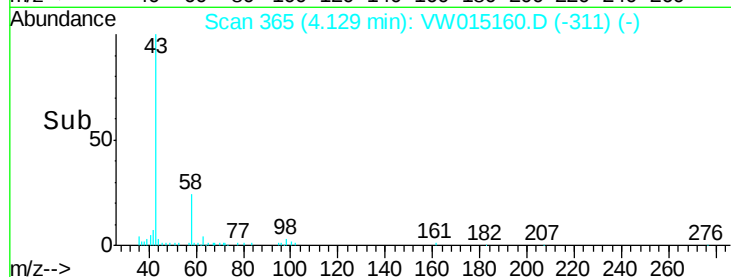
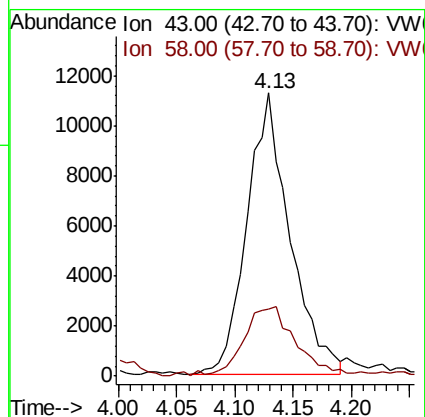
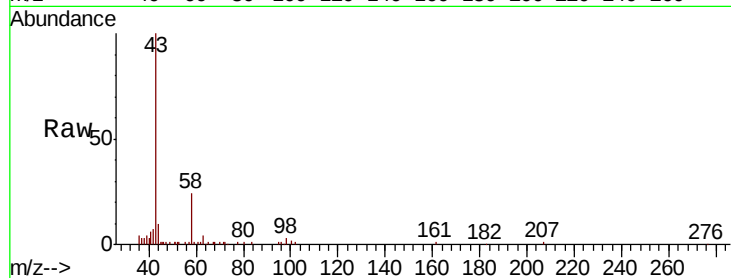
ClientSampleId :

Tot Ion: 43 Resp: 28754

Ion Ratio Lower Upper

43 100

58 28.9 0.0 54.4



#16

Methylene chloride

Concen: 2.179 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

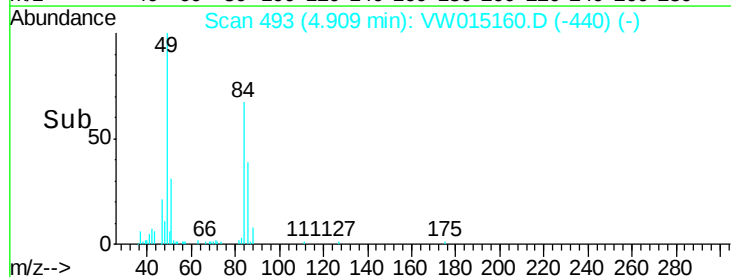
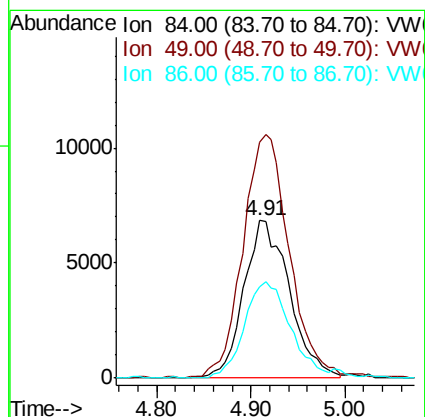
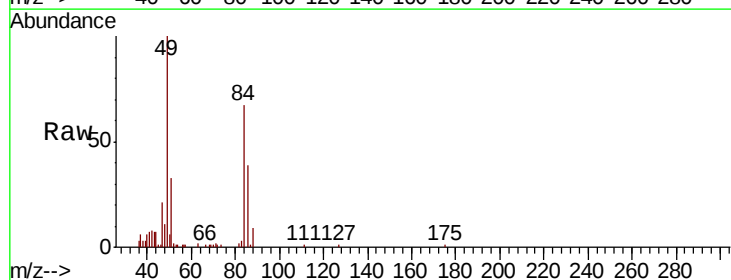
Tgt Ion: 84 Resp: 23170

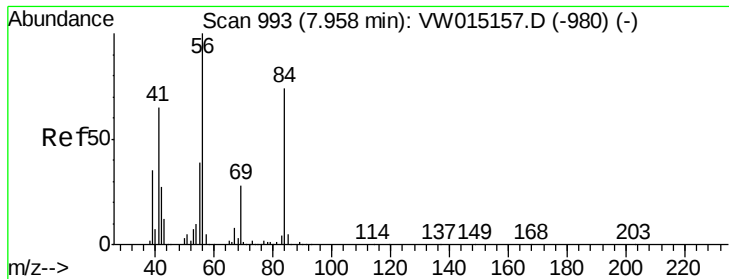
Ion Ratio Lower Upper

84 100

49 149.8 111.7 207.5

86 58.1 44.7 82.9

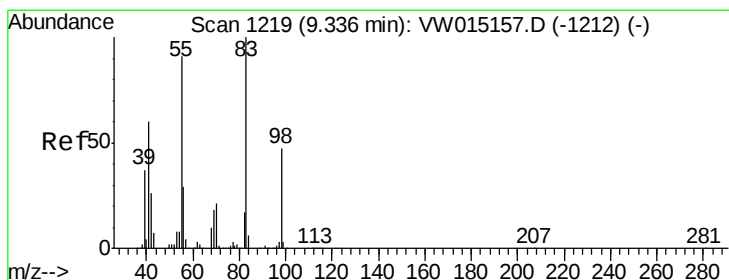
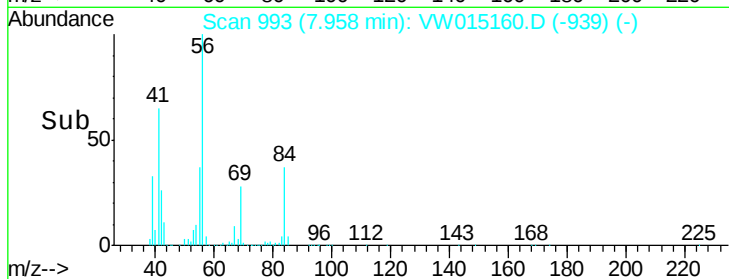
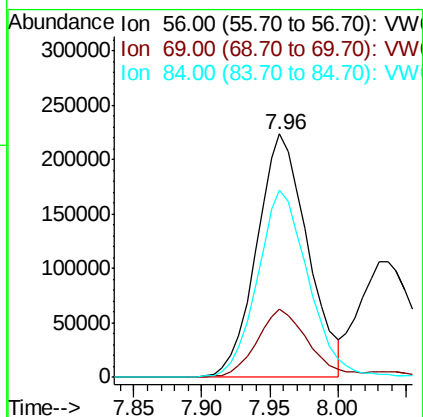
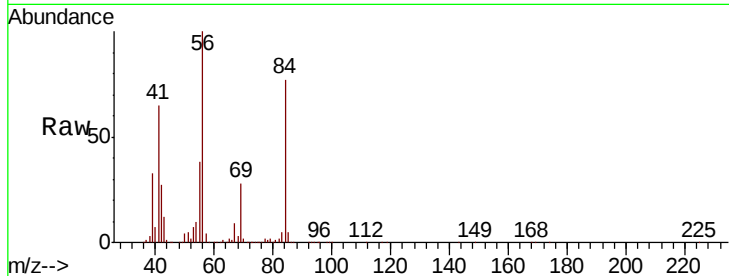




#30
Cyclohexane
Concen: 29.886 ug/L
RT: 7.96 min Scan# 993
Delta R.T. -0.00 min
Lab File: VW015160.D
Acq: 07 Apr 2020 13:54

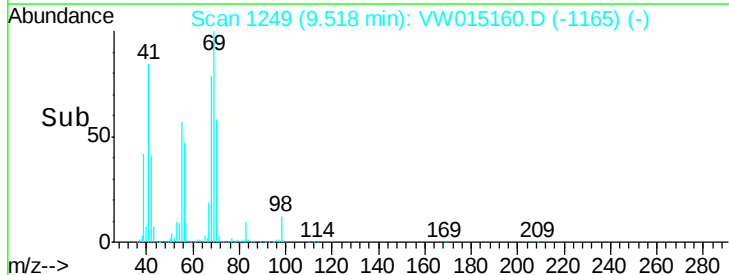
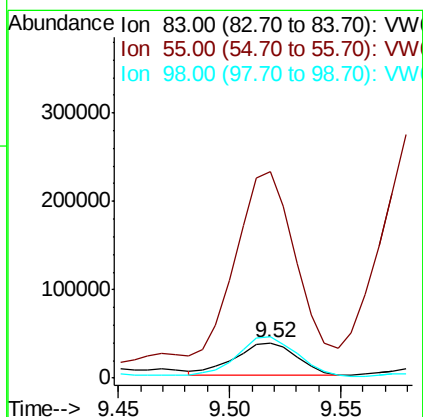
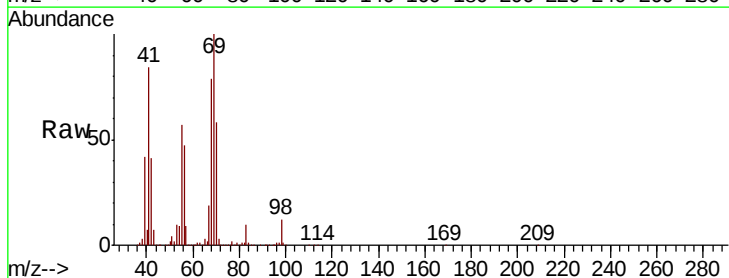
Instrument :
MSVOA_W
ClientSampleId :

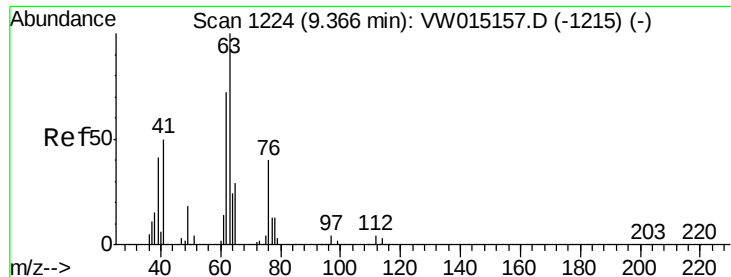
Tot Ion	Ratio	Lower	Upper
56	100		
69	28.1	22.0	33.0
84	77.3	58.9	88.3



#36
Methylcyclohexane
Concen: 3.819 ug/L
RT: 9.52 min Scan# 1249
Delta R.T. 0.18 min
Lab File: VW015160.D
Acq: 07 Apr 2020 13:54

Tgt Ion	Ratio	Lower	Upper
83	100		
55	532.2	73.4	110.2#
98	123.1	36.6	55.0#





#40

1,2-Dichloropropane

Concen: 23.708 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.03 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

Instrument :

MSVOA_W

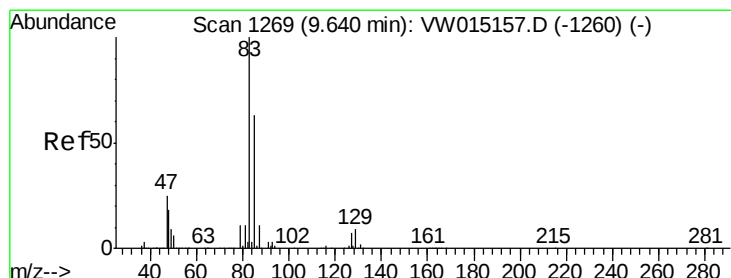
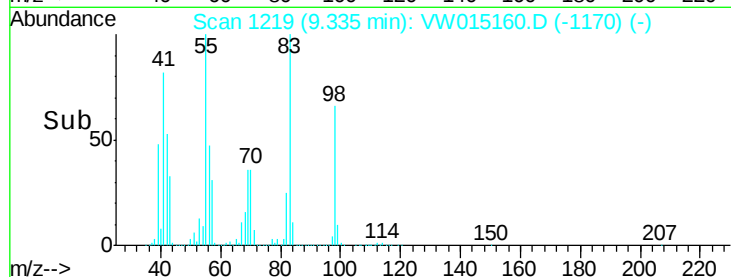
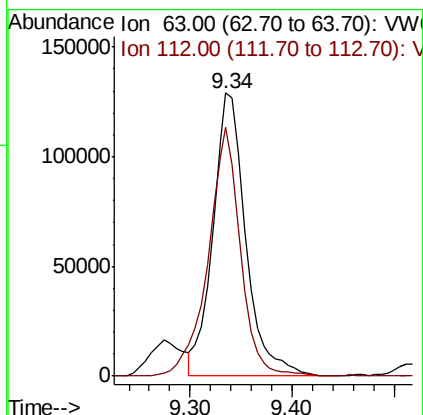
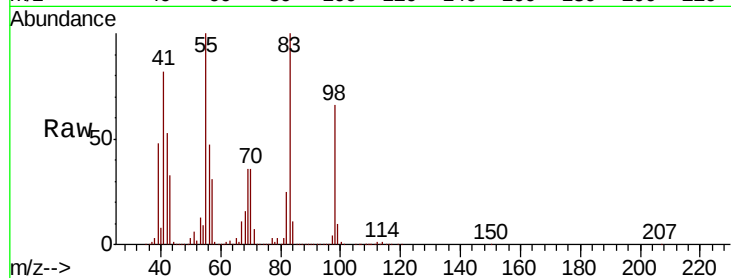
ClientSampled :

Tot Ion: 63 Resp: 289502

Ion Ratio Lower Upper

63 100

112 86.5 2.9 4.3#



#41

Bromodichloromethane

Concen: 9.898 ug/L

RT: 9.61 min Scan# 1264

Delta R.T. -0.03 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

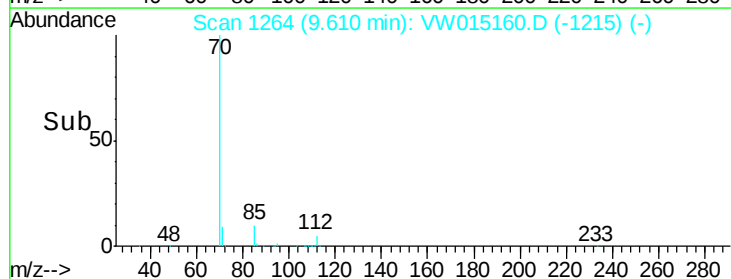
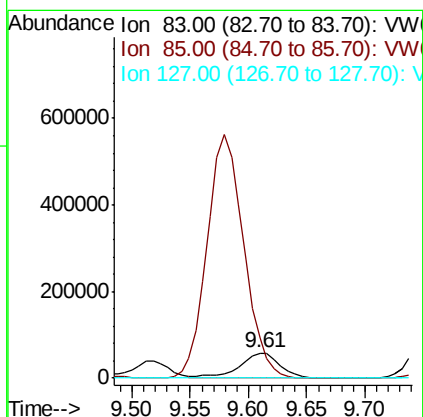
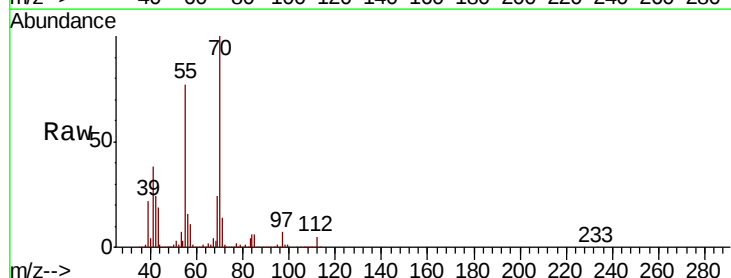
Tgt Ion: 83 Resp: 137513

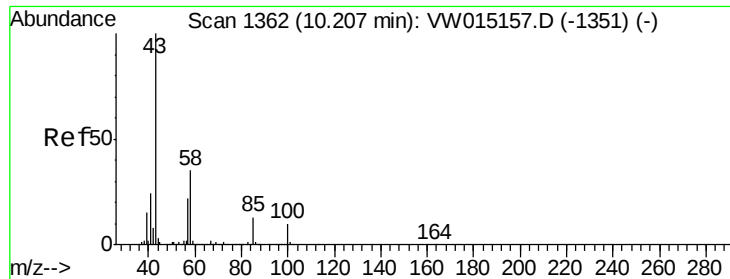
Ion Ratio Lower Upper

83 100

85 159.8 44.1 81.9#

127 0.0 5.5 8.3#

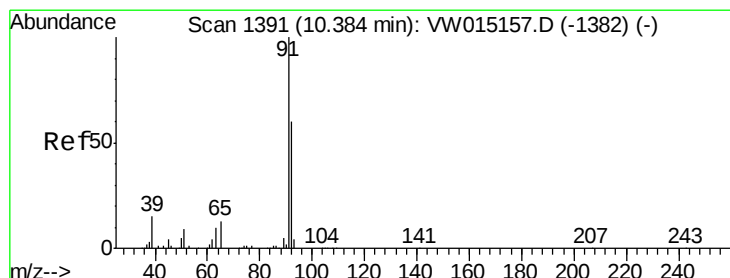
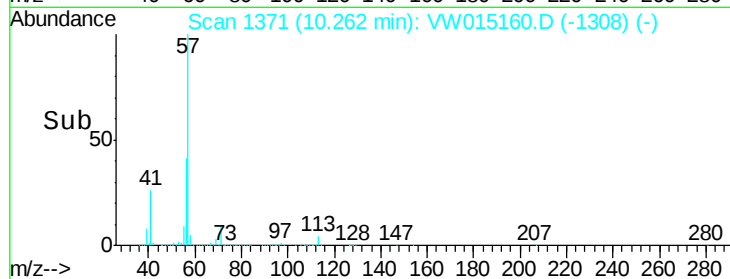
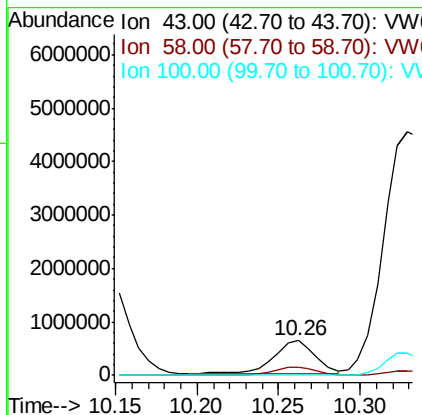
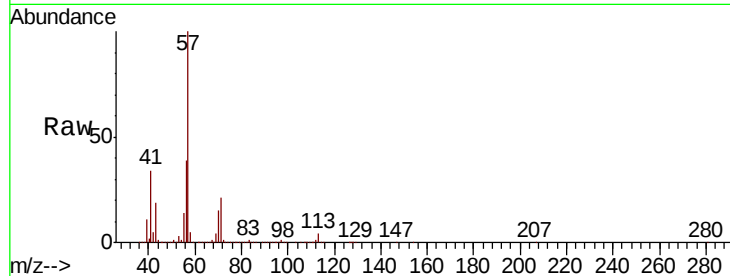




#43
4-Methyl-2-pentanone
Concen: 159.256 ug/L
RT: 10.26 min Scan# 1371
Delta R.T. 0.05 min
Lab File: VW015160.D
Acq: 07 Apr 2020 13:54

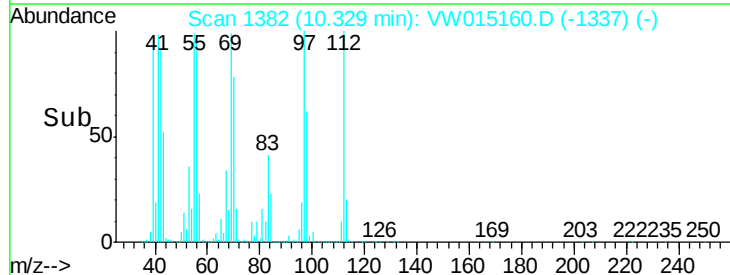
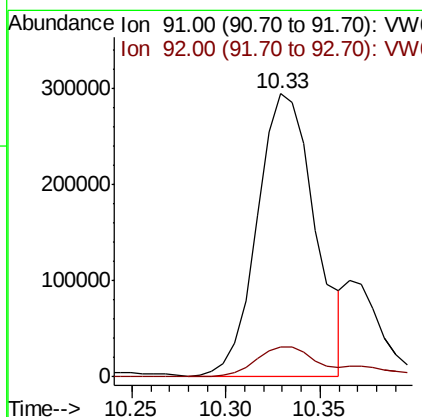
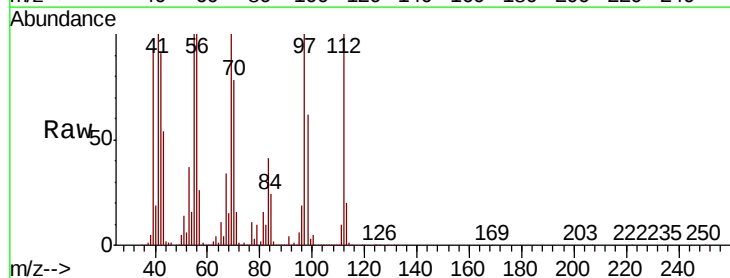
Instrument :
MSVOA_W
ClientSampled :

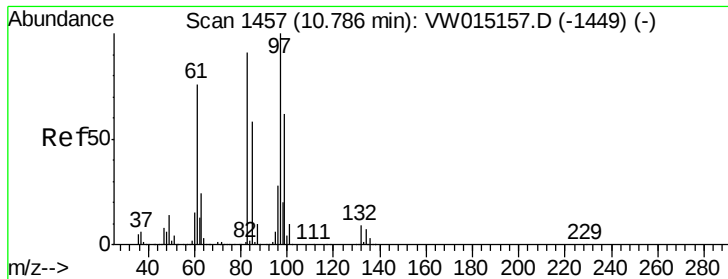
Tot Ion: 43 Resp: 1100256
Ion Ratio Lower Upper
43 100
58 22.5 27.9 41.9#
100 0.0 8.9 13.3#



#44
Toluene
Concen: 14.242 ug/L
RT: 10.33 min Scan# 1382
Delta R.T. -0.06 min
Lab File: VW015160.D
Acq: 07 Apr 2020 13:54

Tgt Ion: 91 Resp: 623580
Ion Ratio Lower Upper
91 100
92 10.6 40.2 74.6#





#46

1,1,2-Trichloroethane

Concen: 523.404 ug/L

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 3757066

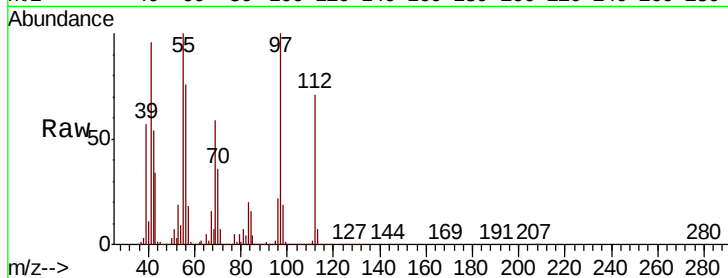
Ion Ratio Lower Upper

97 100

83 20.4 64.8 120.4#

85 3.7 40.9 75.9#

99 0.7 43.8 81.4#



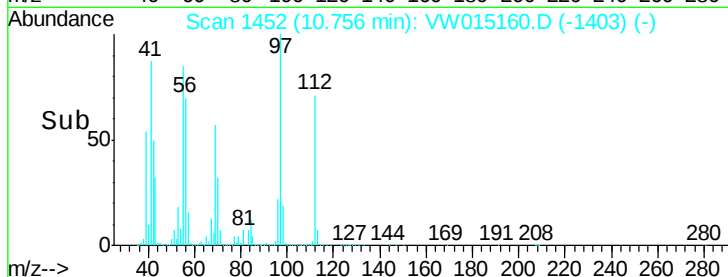
Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

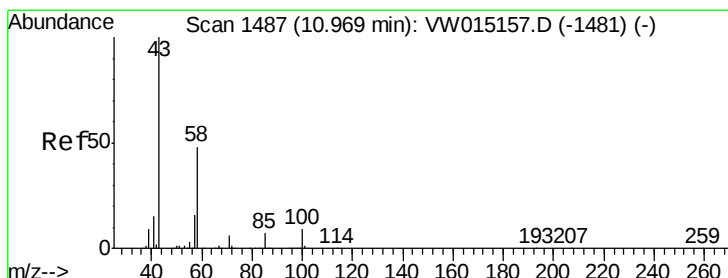
Ion 99.00 (98.70 to 99.70): VW

Time-->



Abundance

Time-->



#49

2-Hexanone

Concen: 4194.764 ug/L

RT: 10.94 min Scan# 1482

Delta R.T. -0.03 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

Tgt Ion: 43 Resp: 19327867

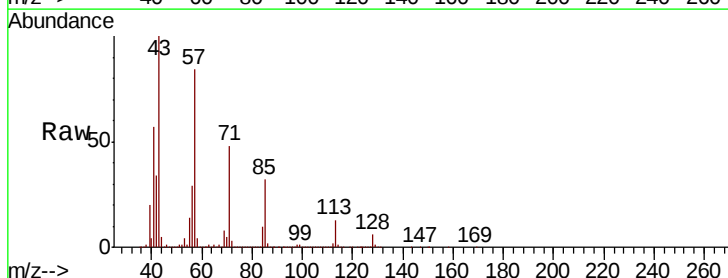
Ion Ratio Lower Upper

43 100

58 4.0 38.5 57.7#

57 82.3 12.9 19.3#

100 0.2 6.9 10.3#



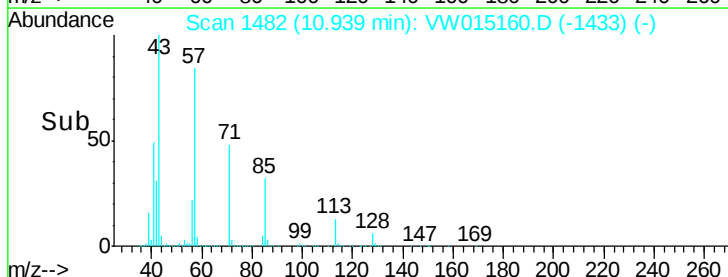
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

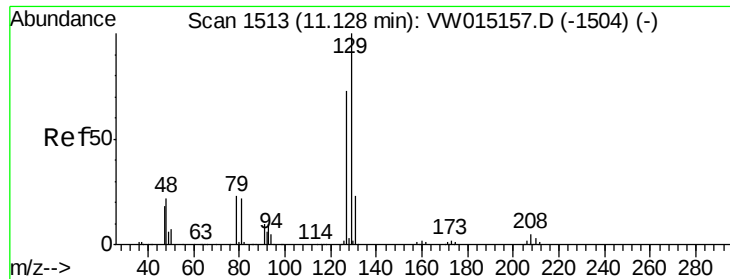
Ion 100.00 (99.70 to 100.70): VW

Time-->



Abundance

Time-->



#50

Dibromochloromethane

Concen: 3.282 ug/L

RT: 11.35 min Scan# 1549

Delta R.T. 0.22 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

Instrument :

MSVOA_W

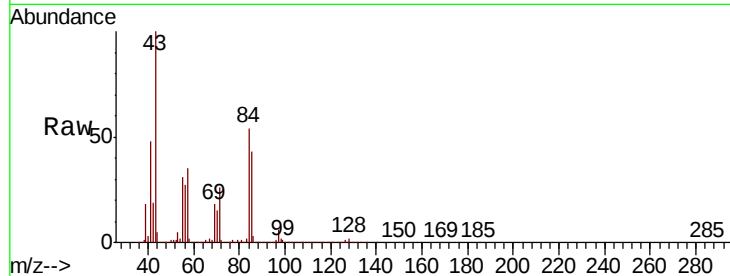
ClientSampleId :

Tot Ion:129 Resp: 24220

Ion Ratio Lower Upper

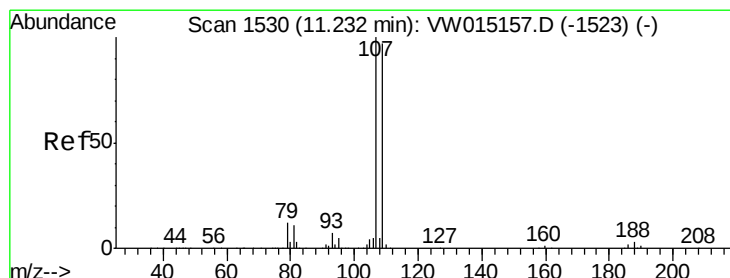
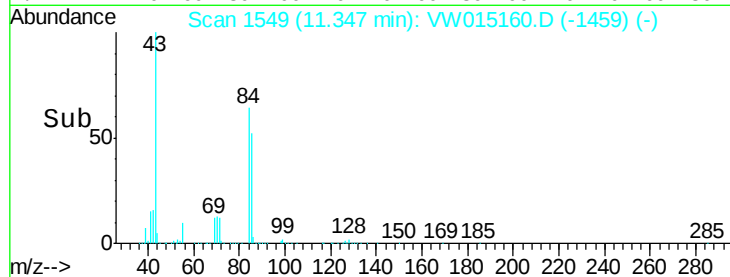
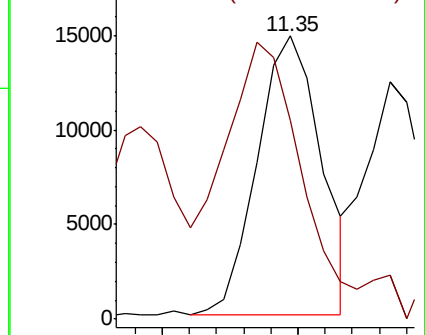
129 100

127 70.1 55.1 102.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 1.039 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

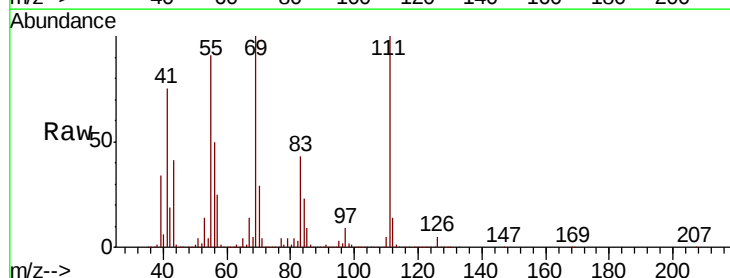
Tgt Ion:107 Resp: 6606

Ion Ratio Lower Upper

107 100

109 821.4 65.9 122.5#

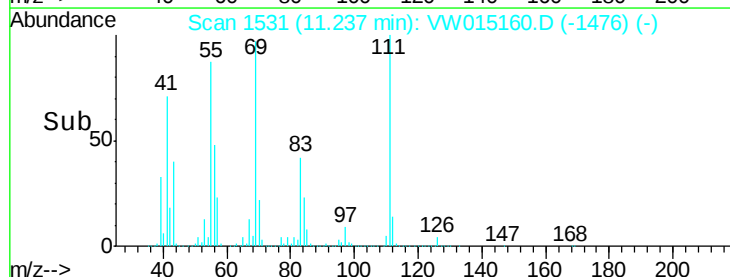
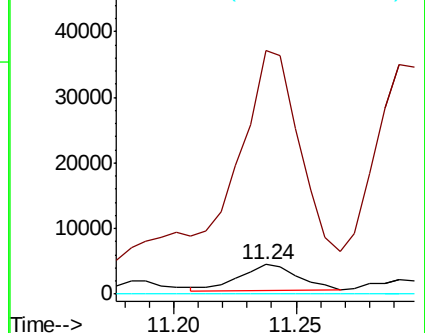
188 0.0 2.3 3.5#

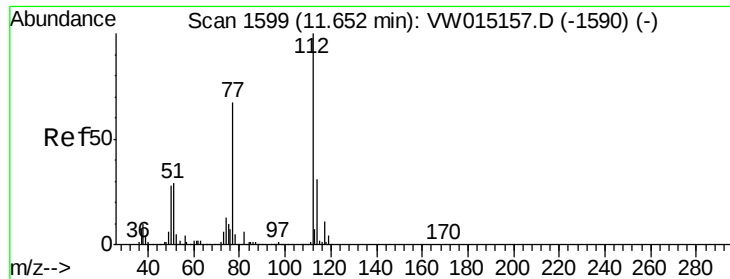


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

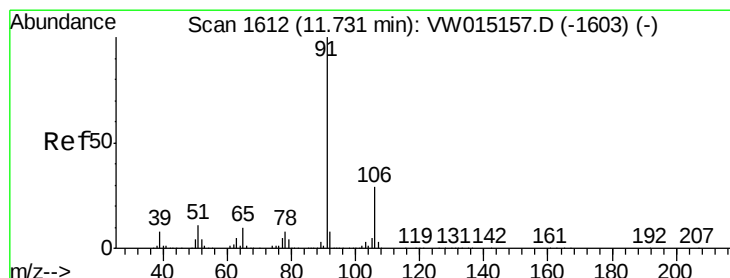
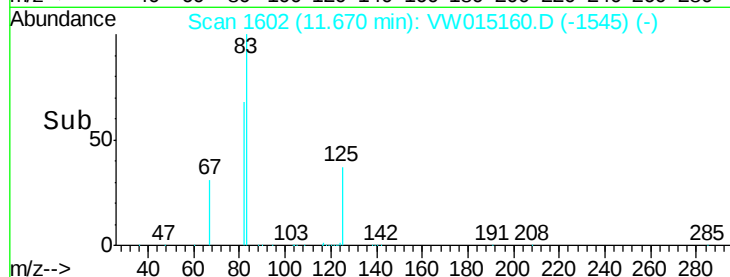
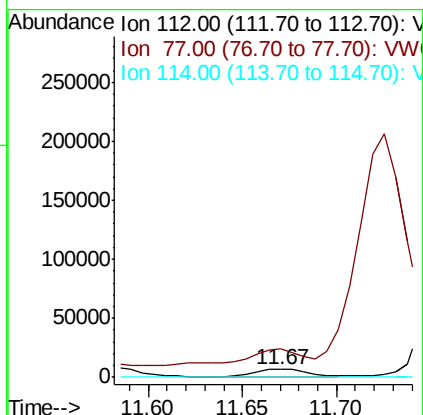
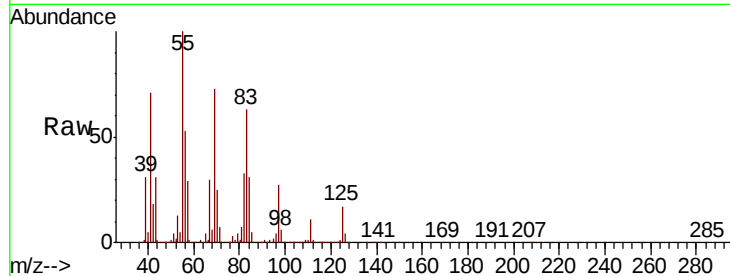




#52
Chlorobenzene
Concen: 0.471 ug/L
RT: 11.67 min Scan# 1602
Delta R.T. 0.02 min
Lab File: VW015160.D
Acq: 07 Apr 2020 13:54

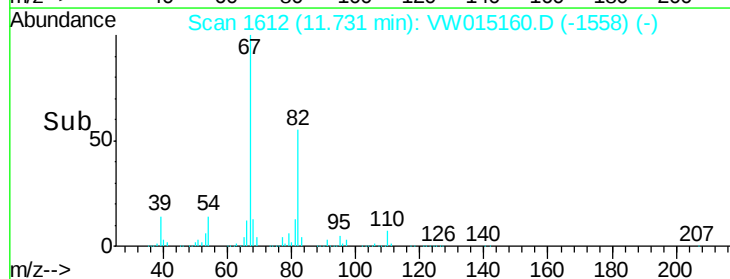
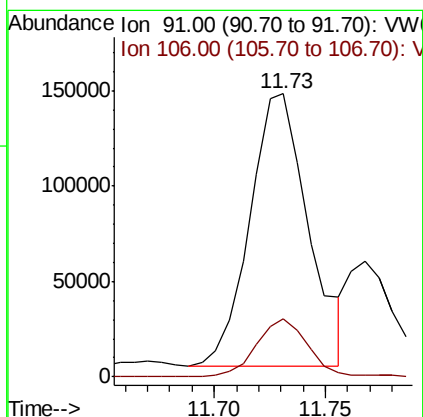
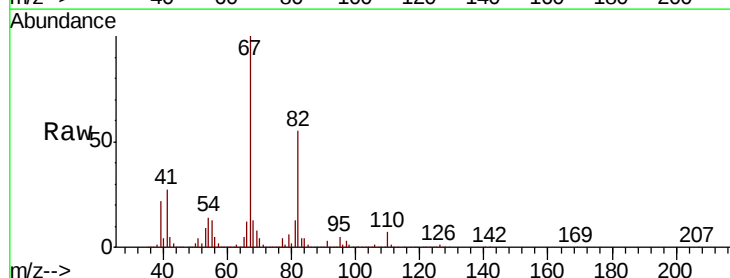
Instrument :
MSVOA_W
ClientSampled :

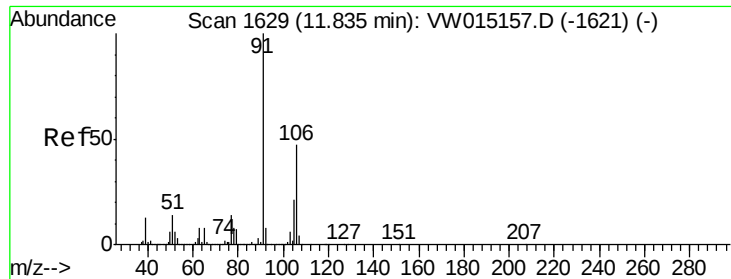
Tot Ion:112 Resp: 12051
Ion Ratio Lower Upper
112 100
77 358.1 53.5 80.3#
114 1.3 22.0 40.8#



#53
Ethylbenzene
Concen: 5.536 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW015160.D
Acq: 07 Apr 2020 13:54

Tgt Ion: 91 Resp: 261805
Ion Ratio Lower Upper
91 100
106 20.4 20.6 38.2#





#54

m,p-Xylene

Concen: 1.183 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

Instrument :

MSVOA_W

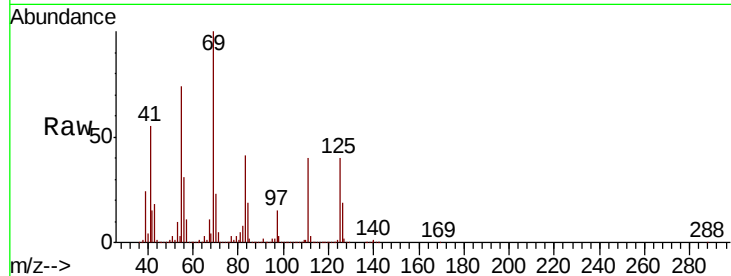
ClientSampled :

Tot Ion:106 Resp: 19609

Ion Ratio Lower Upper

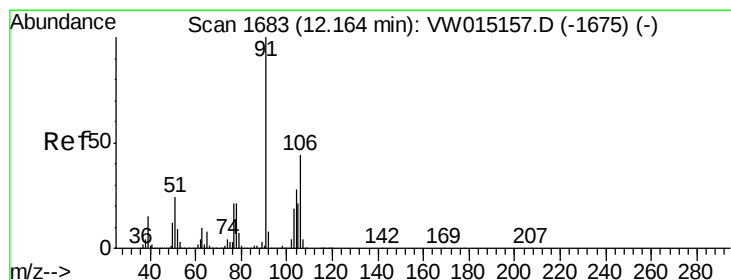
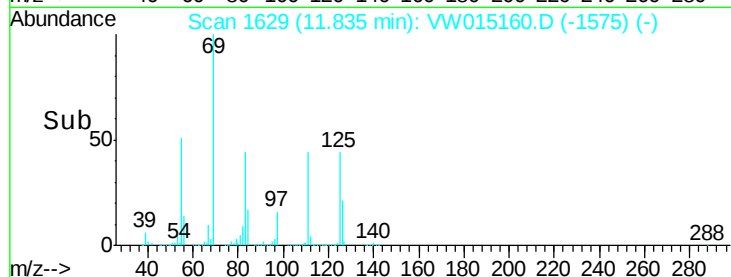
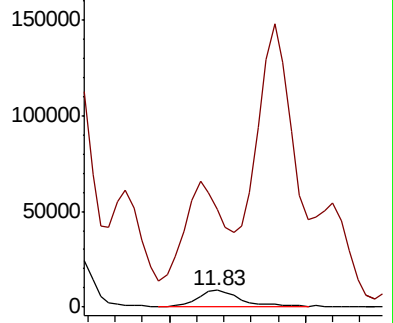
106 100

91 581.9 147.3 273.6#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 0.597 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW015160.D

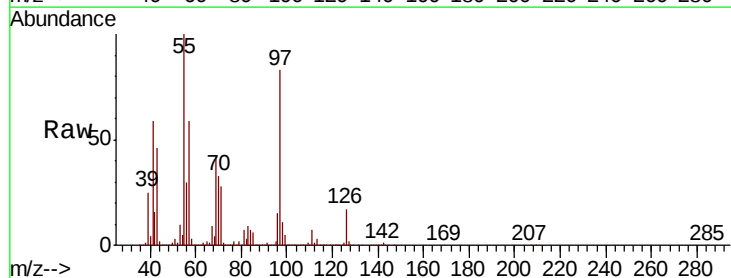
Acq: 07 Apr 2020 13:54

Tgt Ion:106 Resp: 9278

Ion Ratio Lower Upper

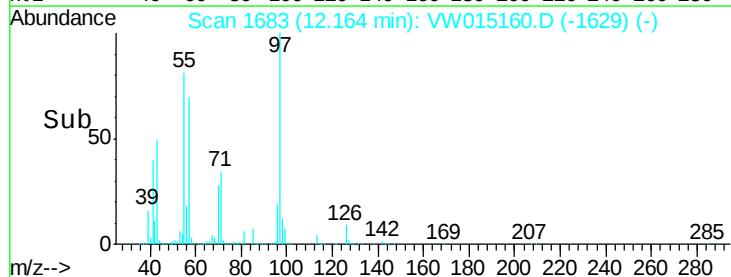
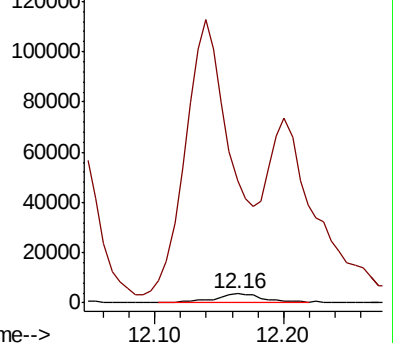
106 100

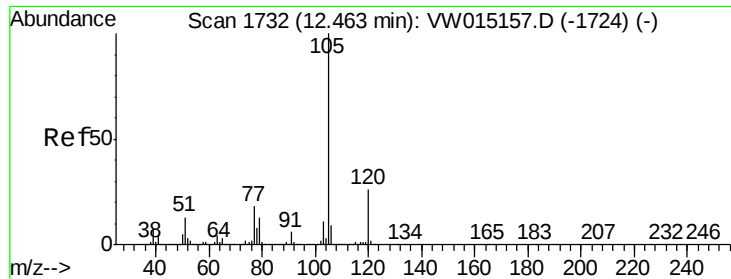
91 1313.7 158.6 294.6#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 184.178 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

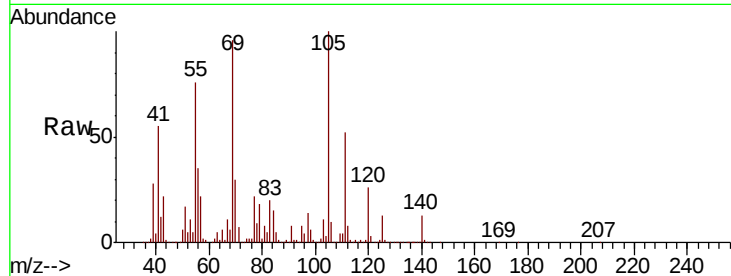
Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:105 Resp: 7887317

Ion	Ratio	Lower	Upper
105	100		
120	25.9	20.0	30.0
77	21.0	14.5	21.7

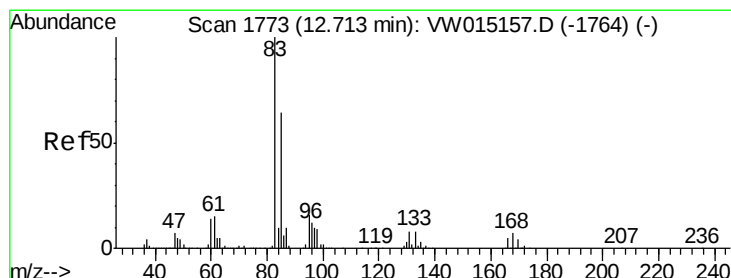
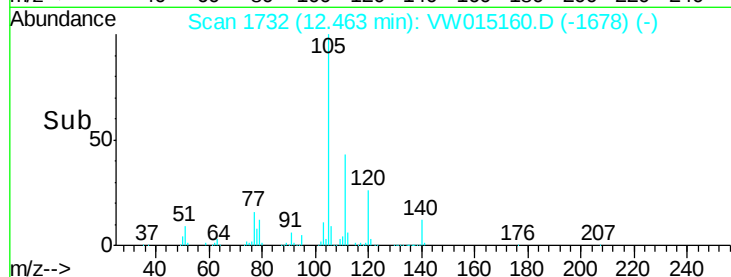
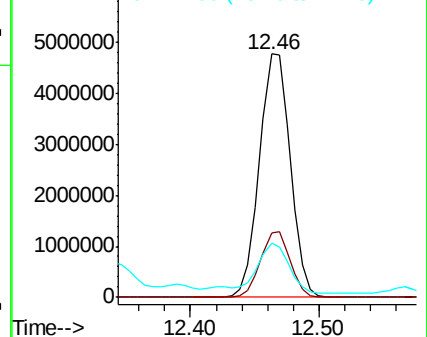


Abundance

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: 184.442 ug/L

RT: 12.69 min Scan# 1770

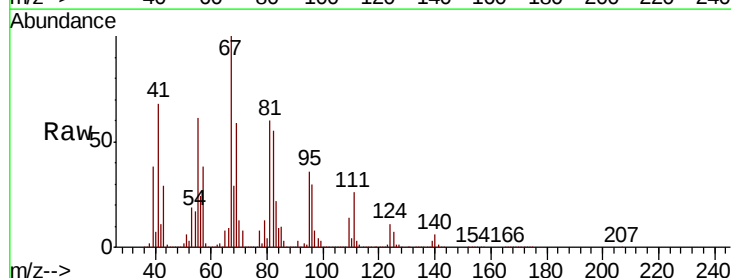
Delta R.T. -0.02 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

Tgt Ion: 83 Resp: 1657055

Ion	Ratio	Lower	Upper
83	100		
85	44.0	44.1	81.9#
131	0.2	5.9	8.9#

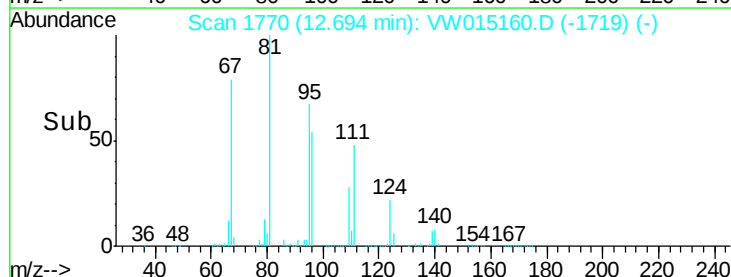
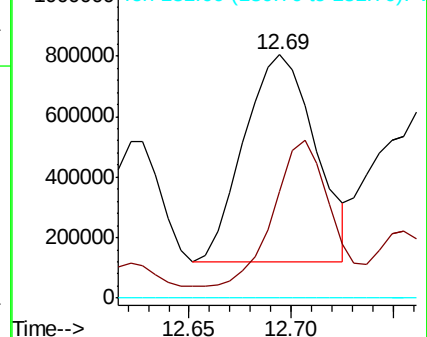


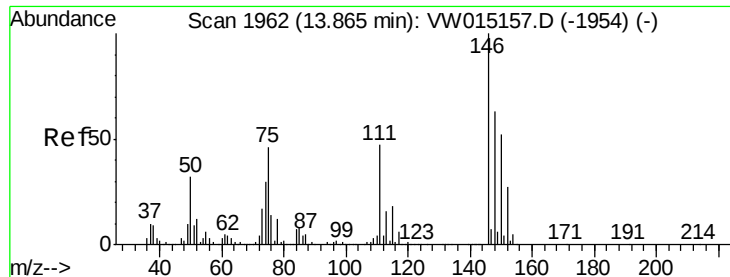
Abundance

Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

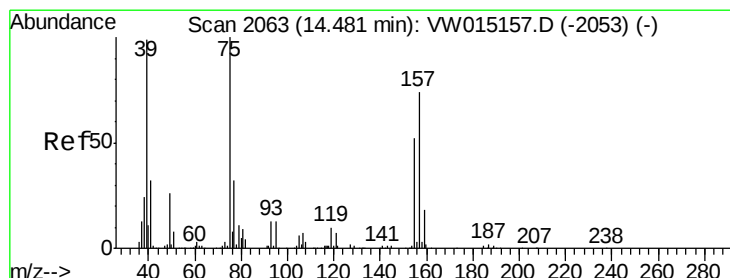
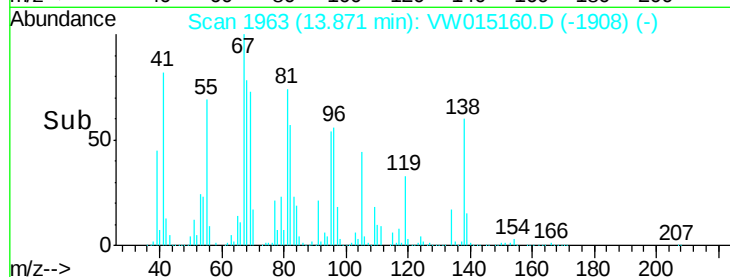
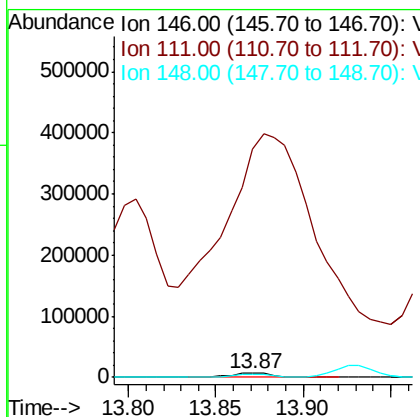
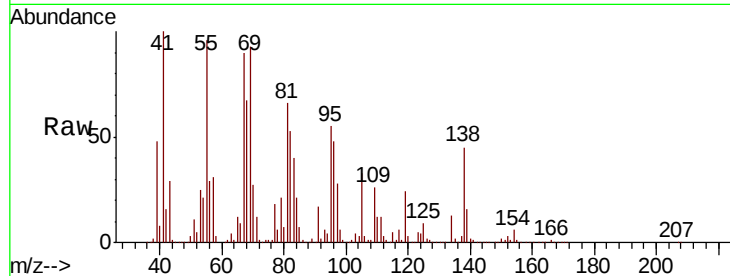




#65
 1,2-Dichlorobenzene
 Concen: 0.898 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW015160.D
 Acq: 07 Apr 2020 13:54

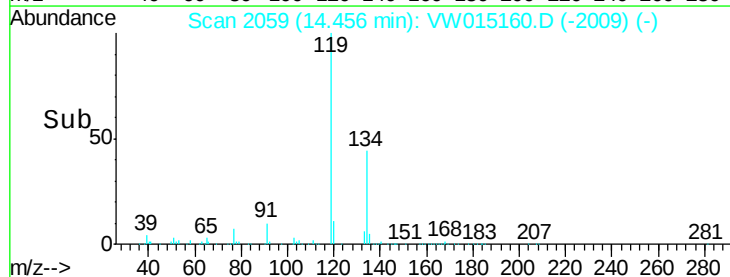
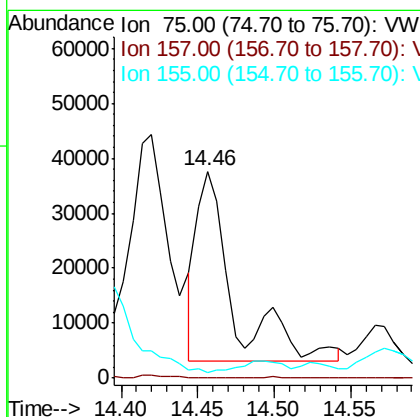
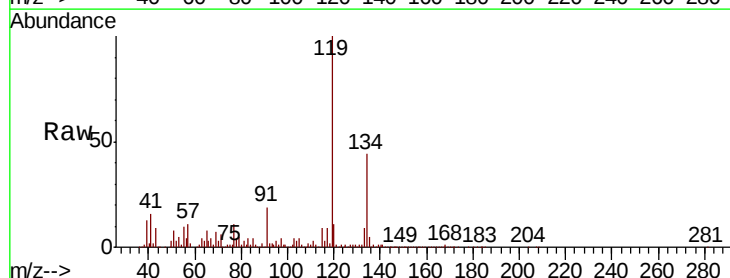
Instrument :
 MSVOA_W
 ClientSampleId :

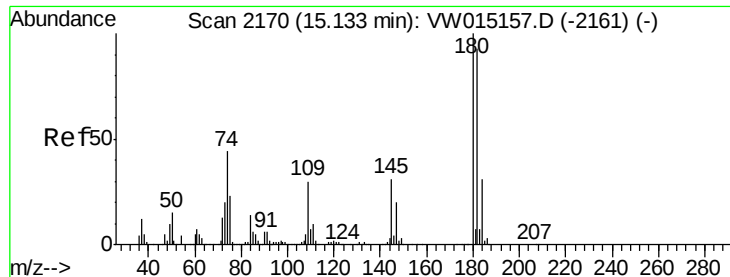
Tot Ion:146 Resp: 10931
 Ion Ratio Lower Upper
 146 100
 111 5496.9 35.8 53.8#
 148 65.4 52.3 78.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.622 ug/L
 RT: 14.46 min Scan# 2059
 Delta R.T. -0.02 min
 Lab File: VW015160.D
 Acq: 07 Apr 2020 13:54

Tgt Ion: 75 Resp: 57531
 Ion Ratio Lower Upper
 75 100
 157 0.2 57.3 85.9#
 155 2.9 43.2 64.8#





#68

1,2,4-trichlorobenzene

Concen: 0.327 ug/L

RT: 15.12 min Scan# 2168

Delta R.T. -0.01 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

Instrument :

MSVOA_W

ClientSampled :

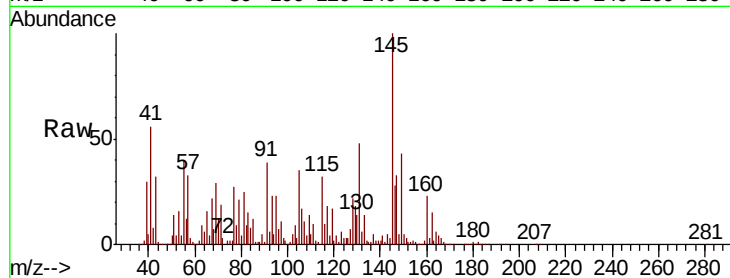
Tot Ion:180 Resp: 2120

Ion Ratio Lower Upper

180 100

182 94.9 75.8 113.6

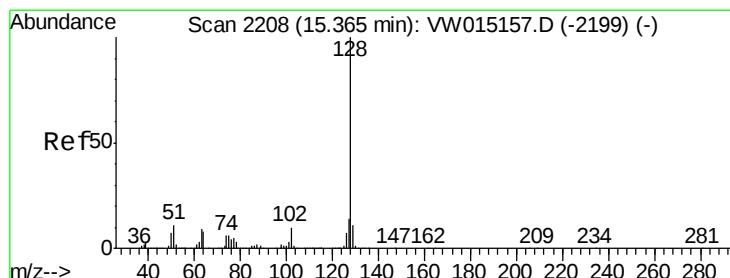
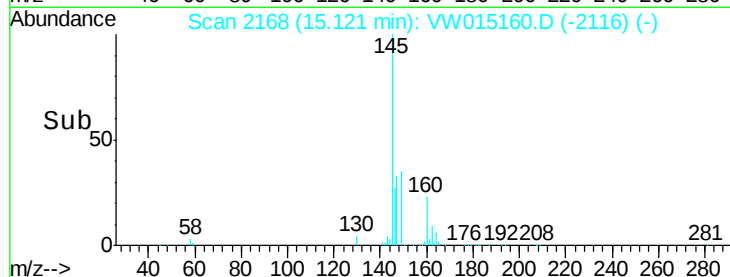
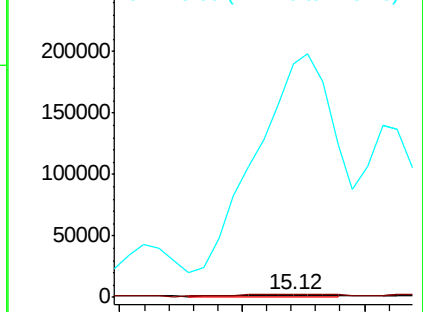
145 22600.9 25.8 38.6#



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



#69

Naphthalene

Concen: 16.710 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW015160.D

Acq: 07 Apr 2020 13:54

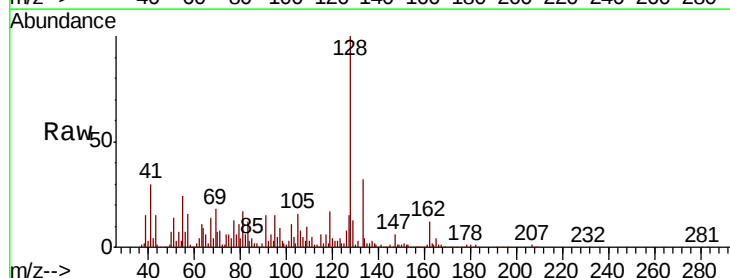
Tgt Ion:128 Resp: 210845

Ion Ratio Lower Upper

128 100

129 9.6 8.9 13.3

127 12.8 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

