

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072320\
 Data File : VW015934.D
 Acq On : 23 Jul 2020 20:12
 Operator : SY/VA
 Sample : L3395-05
 Misc : 5.48G/10ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 24 07:04:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 24 06:59:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	412957	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	353668	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	120585	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	130822	22.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.80%
7) Chloroethane-d5	2.89	69	102244	21.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.40%
10) 1,1-Dichloroethene-d2	4.02	63	186584	15.84	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	63.36%
20) 2-Butanone-d5	7.08	46	73038	47.72	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.44%
24) Chloroform-d	7.65	84	261712	22.57	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.28%
26) 1,2-Dichloroethane-d4	8.31	65	123036	19.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	77.28%
29) Benzene-d6	8.28	84	489159	22.72	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.88%
33) 1,2-Dichloropropane-d6	9.29	67	267487	41.45	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	165.80%#
37) Toluene-d8	10.33	98	538044	27.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	110.36%
38) trans-1,3-Dichloropropene-	10.58	79	68257	24.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.24%
39) 2-Hexanone-d5	10.93	63	69091	64.29	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	128.58%
48) 1,1,2,2-Tetrachloroethane-	12.70	84	166101	33.48	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	133.92%#
61) 1,2-Dichlorobenzene-d4	13.85	152	106638	22.68	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.72%

Target Compounds

					Ovalue
13) Acetone	4.11	43	266294	207.163	ug/L 58
14) Carbon disulfide	4.38	76	4909	0.293	ug/L 100
16) Methylene chloride	4.91	84	12912	1.908	ug/L # 1
21) 2-Butanone	7.17	43	138142	86.906	ug/L # 49
25) Chloroform	7.63	83	453703	44.315	ug/L # 18
30) Cyclohexane	7.93	56	2406975	269.910	ug/L # 67
35) Trichloroethene	9.12	95	50386	8.867	ug/L # 21
36) Methylcyclohexane	9.34	83	3603430	369.578	ug/L # 72
40) 1,2-Dichloropropane	9.40	63	23104	4.342	ug/L # 86
41) Bromodichloromethane	9.63	83	513638	74.741	ug/L # 28
43) 4-Methyl-2-pentanone	10.26	43	2368190	762.452	ug/L # 78
44) Toluene	10.39	91	20408	0.906	ug/L 86
46) 1,1,2-Trichloroethane	10.77	97	837128	218.767	ug/L # 29
49) 2-Hexanone	10.94	43	880532	399.489	ug/L # 17
50) Dibromochloromethane	11.04	129	7229	1.632	ug/L 85
51) 1,2-Dibromoethane	11.21	107	9315	2.545	ug/L # 1
53) Ethylbenzene	11.74	91	1971770	77.833	ug/L 97

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ClientSampleId :

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Quant Title : VOC Analysis
QLast Update : Fri Jul 24 06:59:55 2020
Response via : Initial Calibration

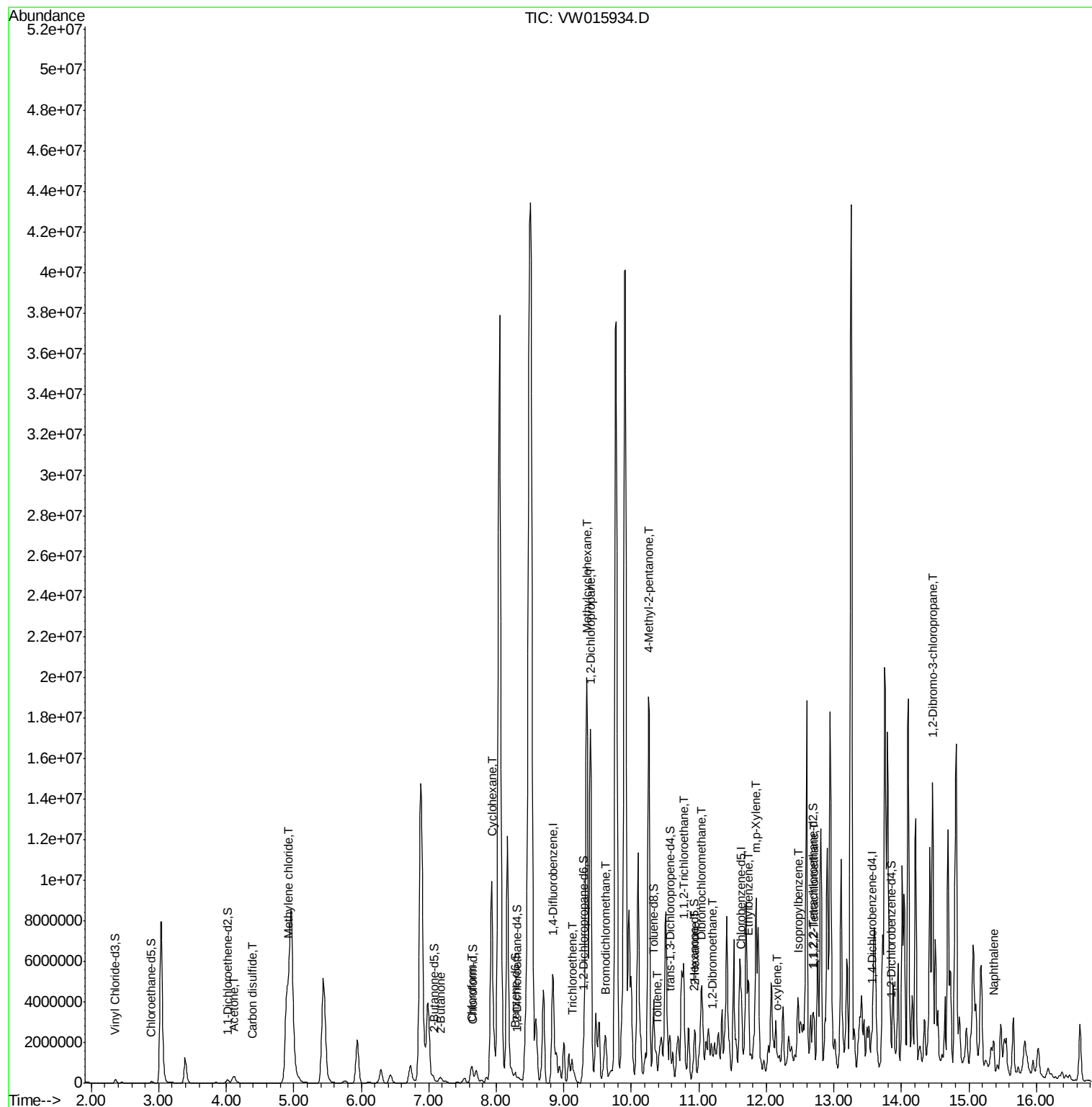
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) m,p-Xylene	11.85	106	1004398	105.971	uq/L	95
55) o-xylene	12.17	106	14967	1.677	uq/L #	54
57) Isopropylbenzene	12.47	105	2135099	87.882	uq/L	98
58) 1,1,2,2-Tetrachloroethane	12.71	83	30898	6.876	uq/L #	1
66) 1,2-Dibromo-3-chloropropan	14.46	75	63527	120.399	uq/L #	3
69) Naphthalene	15.37	128	1004484	123.700	uq/L #	96

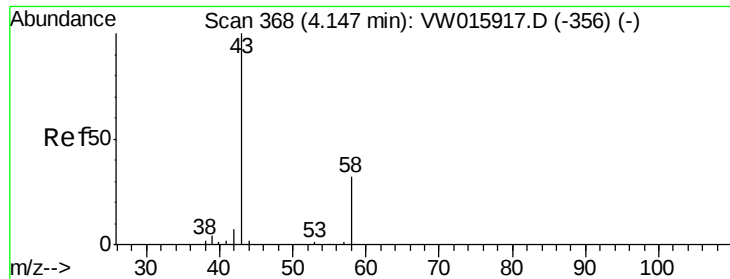
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 207.163 ug/L

RT: 4.11 min Scan# 362

Delta R.T. -0.04 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

Instrument :

MSVOA_W

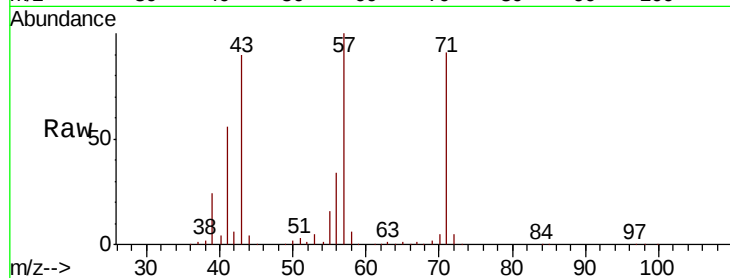
ClientSampled :

Tot Ion: 43 Resp: 266294

Ion Ratio Lower Upper

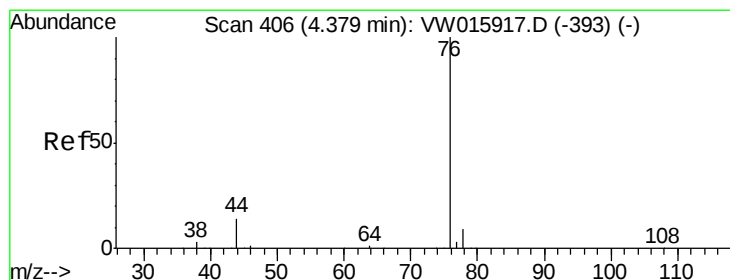
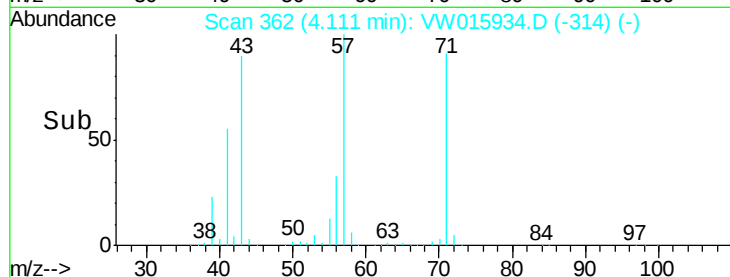
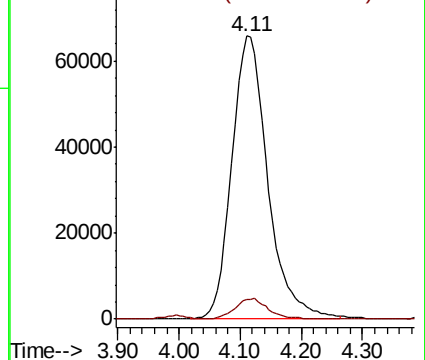
43 100

58 6.8 0.0 58.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 0.293 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW015934.D

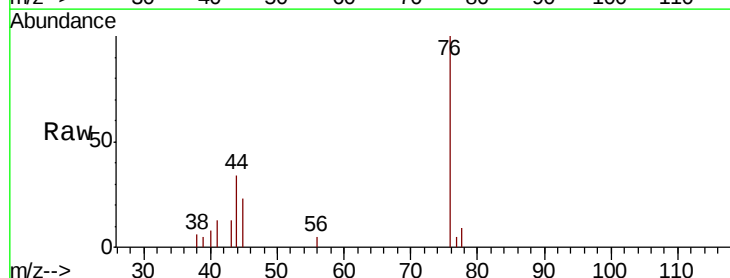
Acq: 23 Jul 2020 20:12

Tgt Ion: 76 Resp: 4909

Ion Ratio Lower Upper

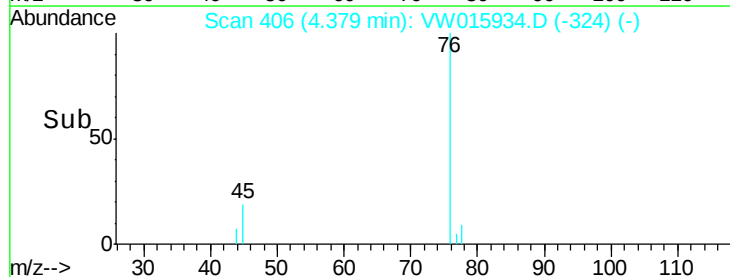
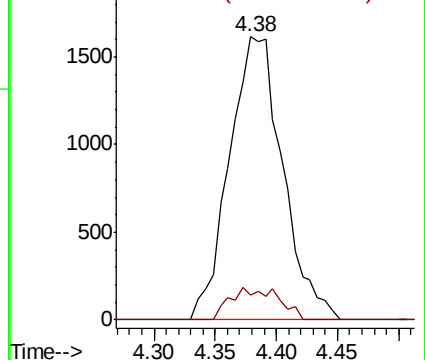
76 100

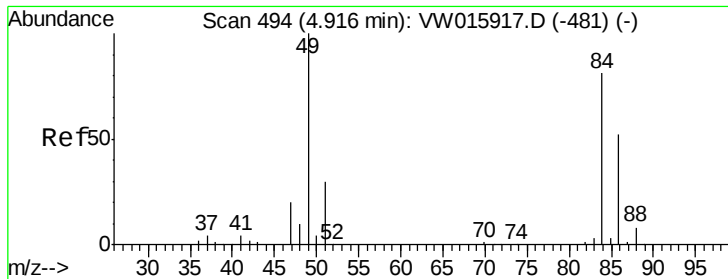
78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

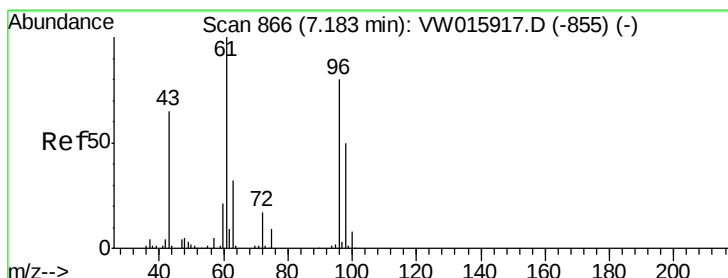
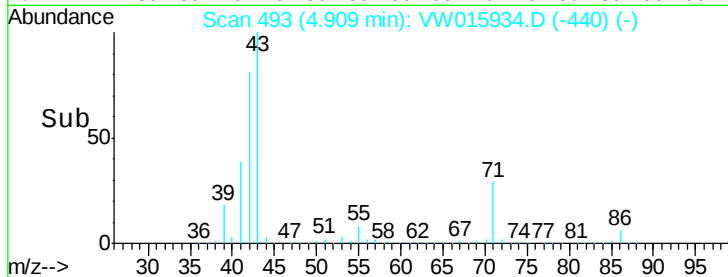
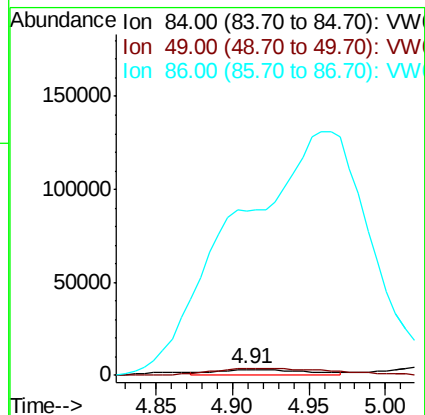
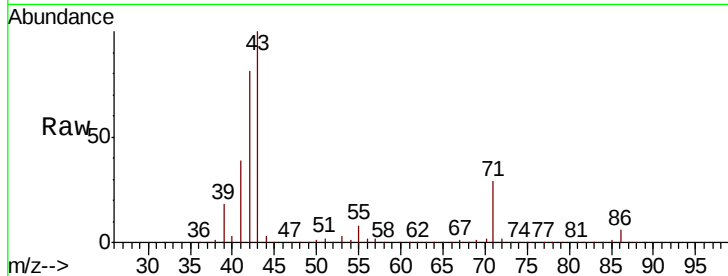




#16
Methvlene chloride
Concen: 1.908 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW015934.D
Acq: 23 Jul 2020 20:12

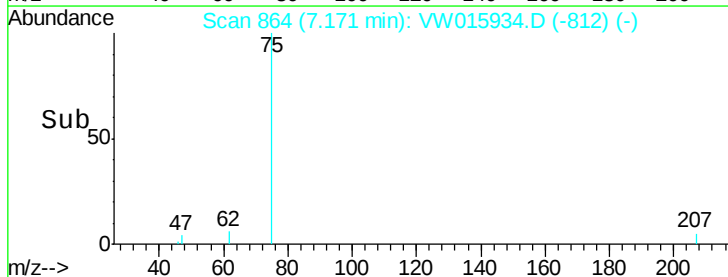
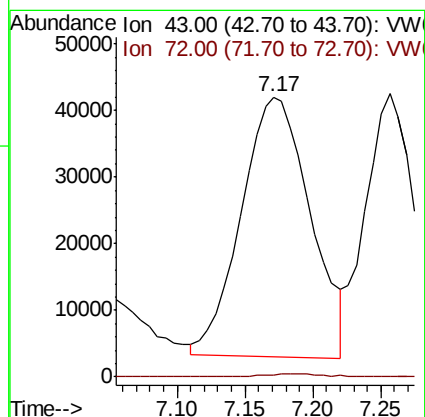
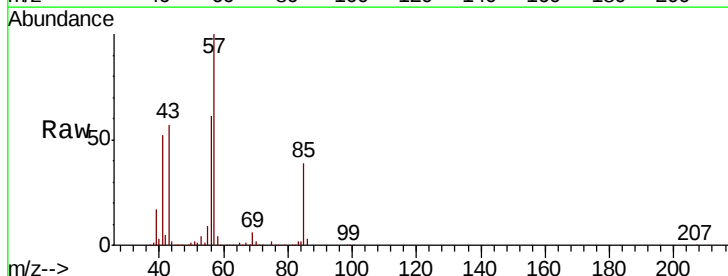
Instrument :
MSVOA_W
ClientSampleId :

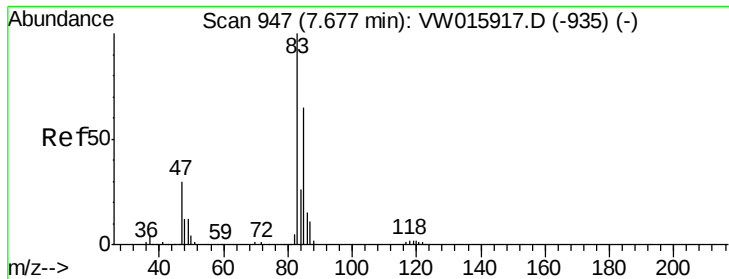
Tot Ion: 84 Resp: 12912
Ion Ratio Lower Upper
84 100
49 109.3 91.1 169.1
86 2710.2 46.0 85.4#



#21
2-Butanone
Concen: 86.906 ug/L
RT: 7.17 min Scan# 864
Delta R.T. -0.01 min
Lab File: VW015934.D
Acq: 23 Jul 2020 20:12

Tgt Ion: 43 Resp: 138142
Ion Ratio Lower Upper
43 100
72 1.0 13.9 41.7#





#25

Chloroform

Concen: 44.315 ug/L

RT: 7.63 min Scan# 940

Delta R.T. -0.04 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

Instrument :

MSVOA_W

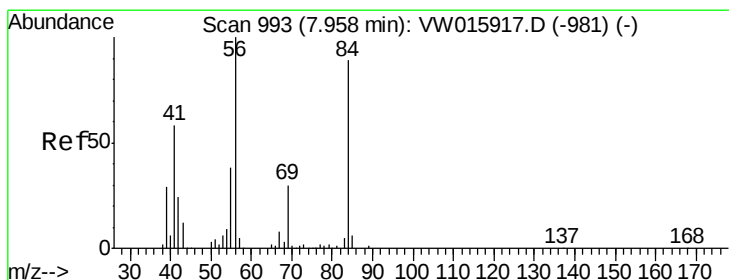
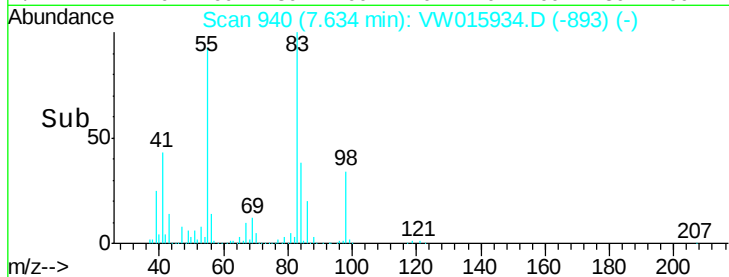
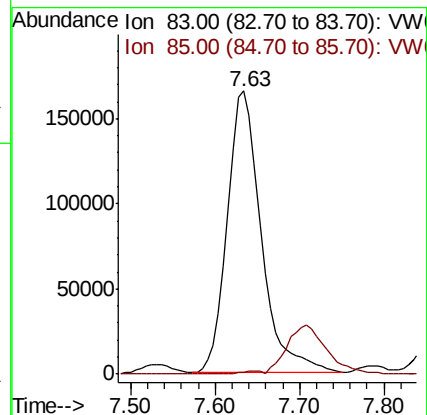
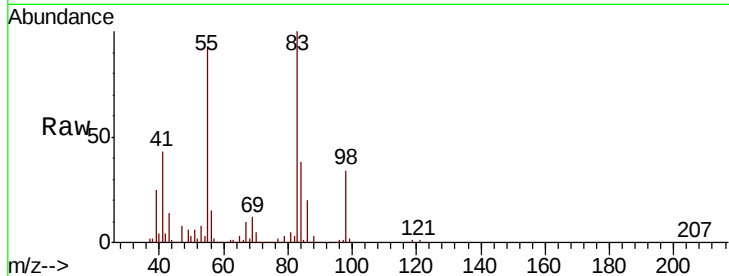
ClientSampleId :

Tot Ion: 83 Resp: 453703

Ion Ratio Lower Upper

83 100

85 0.7 46.5 86.5#



#30

Cyclohexane

Concen: 269.910 ug/L

RT: 7.93 min Scan# 989

Delta R.T. -0.02 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

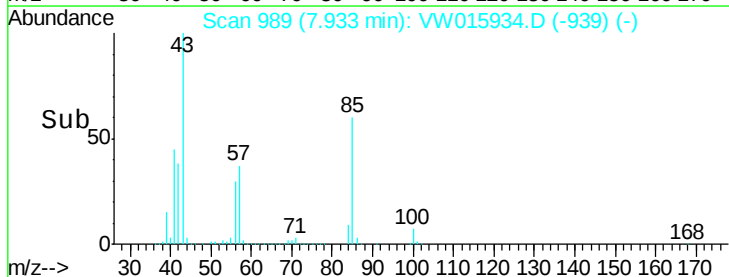
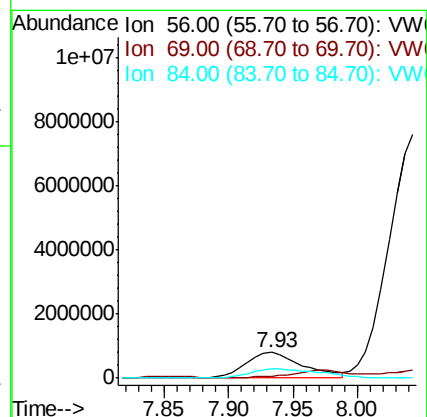
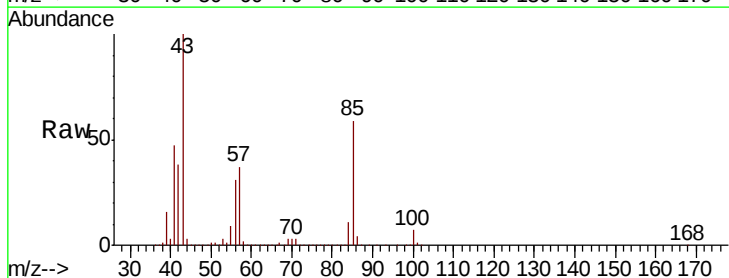
Tgt Ion: 56 Resp: 2406975

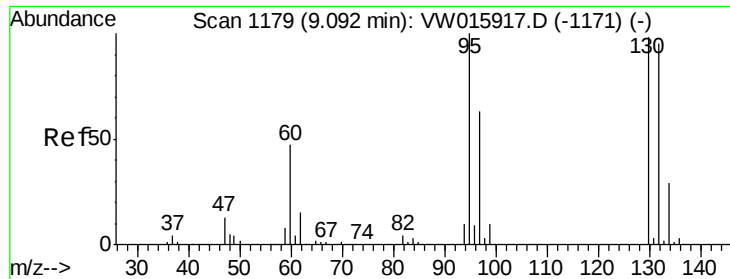
Ion Ratio Lower Upper

56 100

69 31.4 24.4 36.6

84 46.0 69.3 103.9#

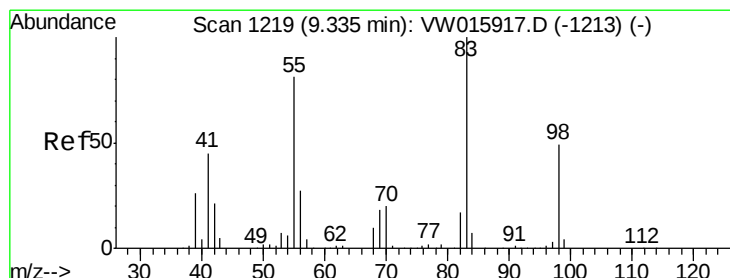
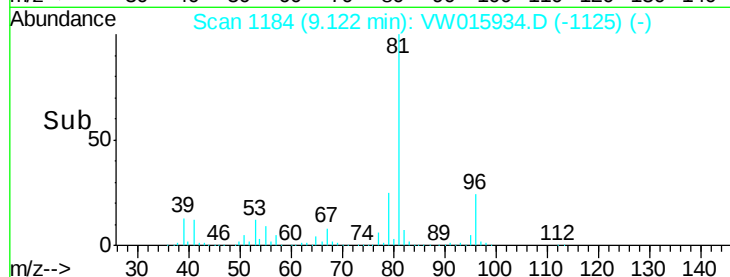
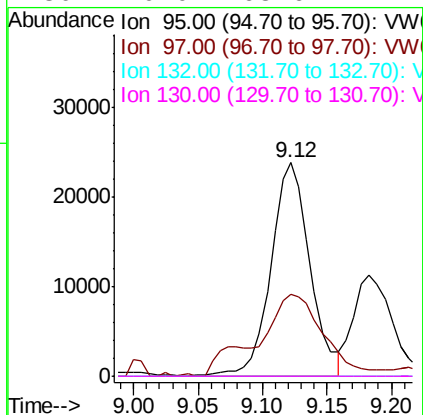
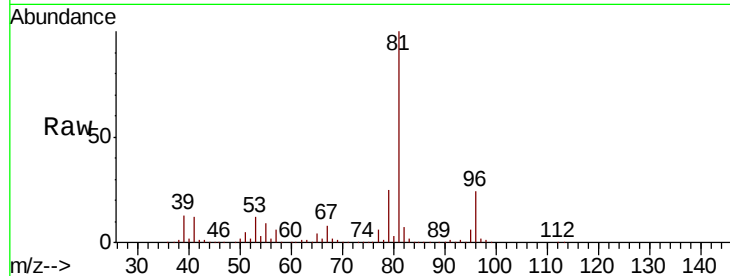




#35
 Trichloroethene
 Concen: 8.867 ug/L
 RT: 9.12 min Scan# 1184
 Delta R.T. 0.03 min
 Lab File: VW015934.D
 Acq: 23 Jul 2020 20:12

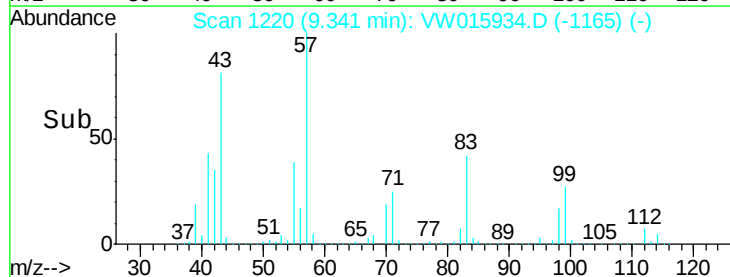
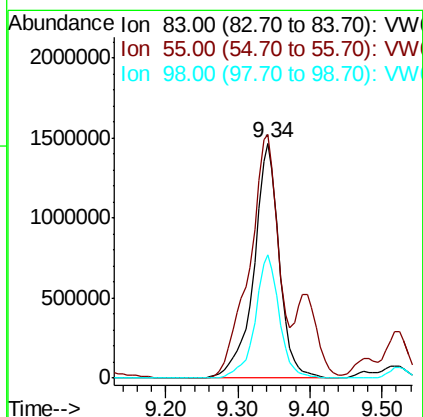
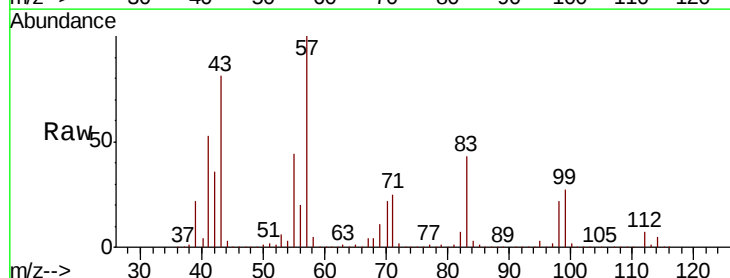
Instrument :
 MSVOA_W
 ClientSampled :

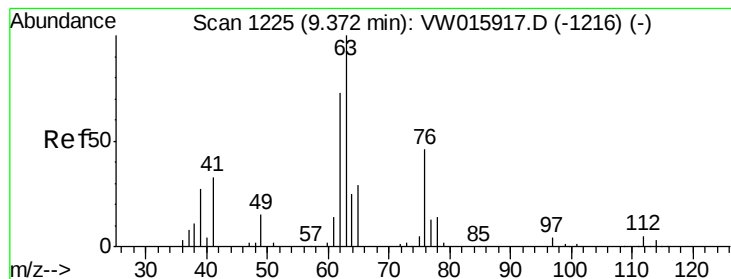
Tot Ion: 95 Resp: 50386
 Ion Ratio Lower Upper
 95 100
 97 45.1 44.4 82.4
 132 0.0 65.1 120.9#
 130 0.0 68.6 127.4#



#36
 Methylcyclohexane
 Concen: 369.578 ug/L
 RT: 9.34 min Scan# 1220
 Delta R.T. 0.01 min
 Lab File: VW015934.D
 Acq: 23 Jul 2020 20:12

Tgt Ion: 83 Resp: 3603430
 Ion Ratio Lower Upper
 83 100
 55 117.7 63.5 95.3#
 98 49.9 39.0 58.4





#40

1,2-Dichloropropane

Concen: 4.342 ug/L

RT: 9.40 min Scan# 1229

Delta R.T. 0.02 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

Instrument :

MSVOA_W

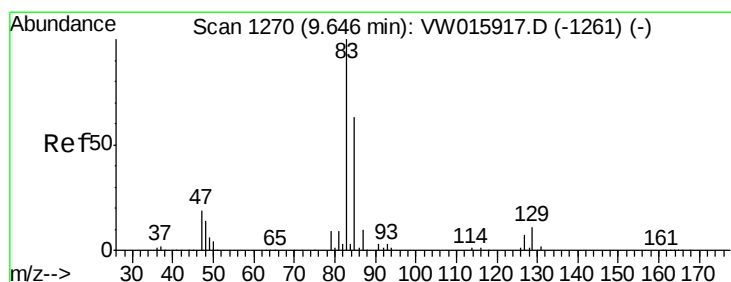
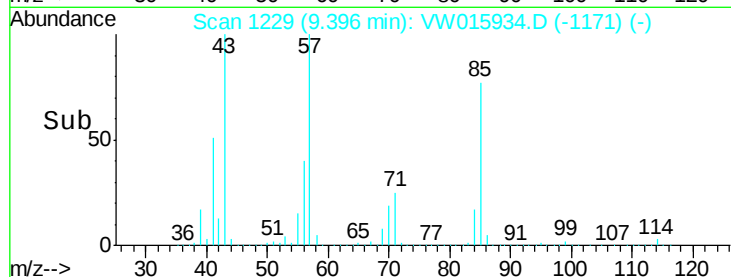
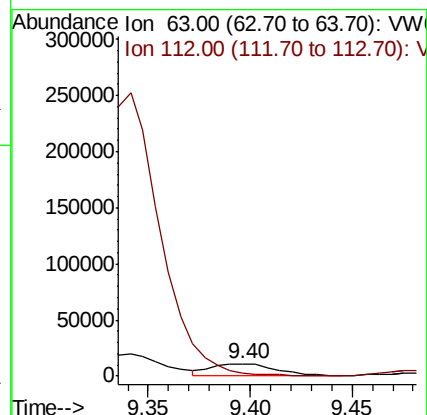
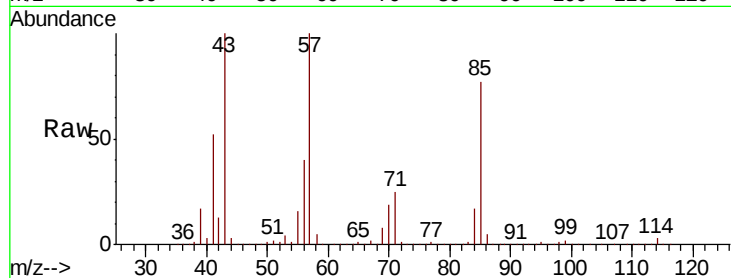
ClientSampled :

Tot Ion: 63 Resp: 23104

Ion Ratio Lower Upper

63 100

112 0.0 3.7 5.5#



#41

Bromodichloromethane

Concen: 74.741 ug/L

RT: 9.63 min Scan# 1267

Delta R.T. -0.02 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

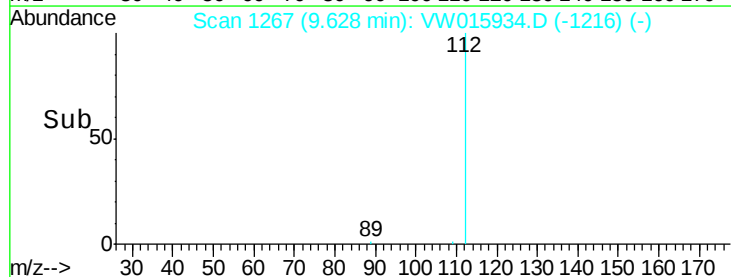
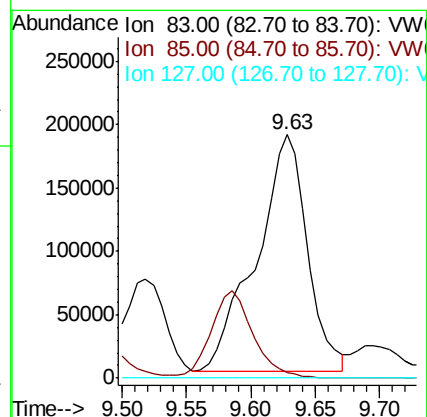
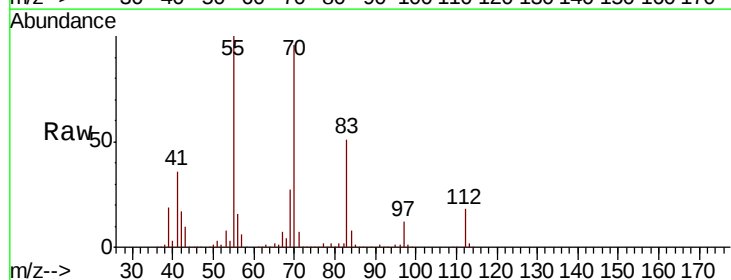
Tgt Ion: 83 Resp: 513638

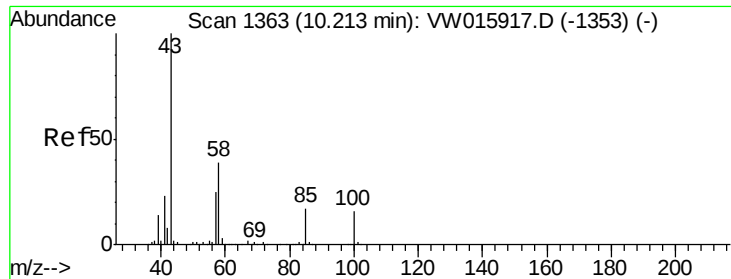
Ion Ratio Lower Upper

83 100

85 2.3 43.7 81.1#

127 0.0 6.5 9.7#

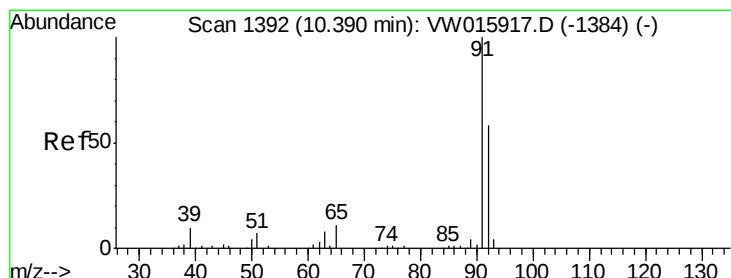
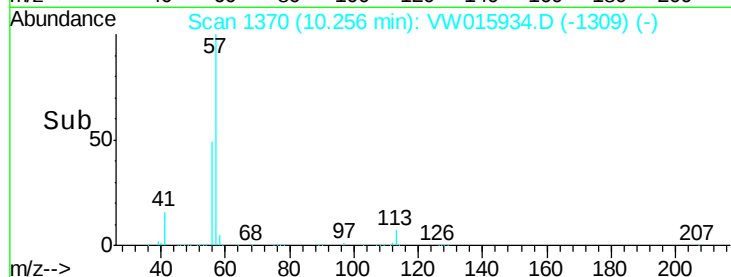
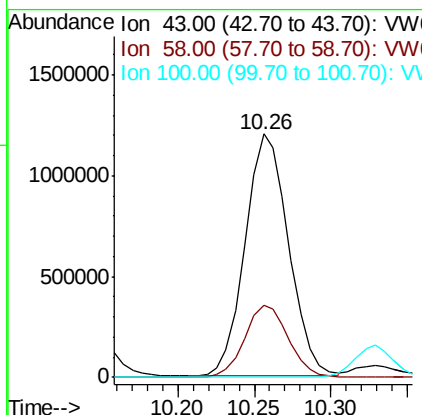
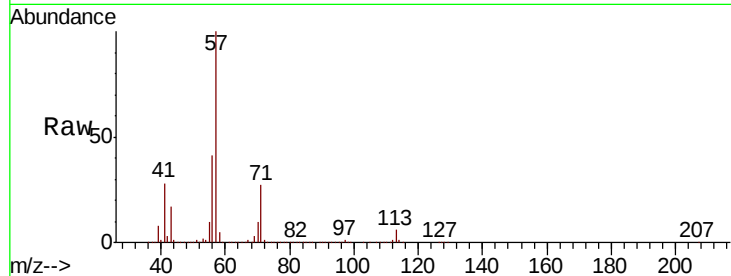




#43
4-Methyl-2-pentanone
Concen: 762.452 ug/L
RT: 10.26 min Scan# 1370
Delta R.T. 0.04 min
Lab File: VW015934.D
Acq: 23 Jul 2020 20:12

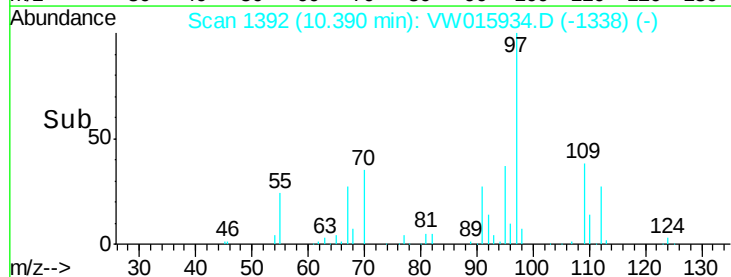
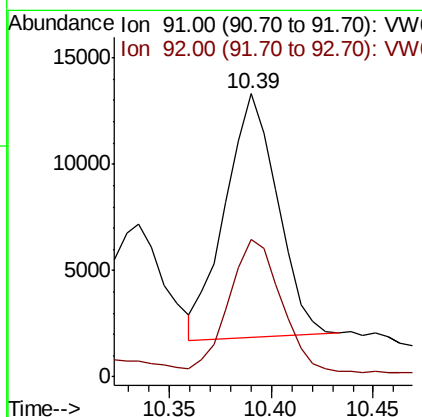
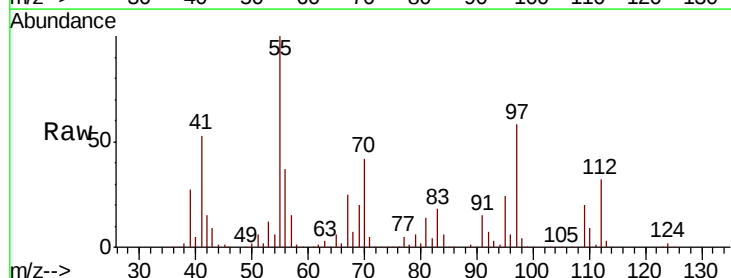
Instrument :
MSVOA_W
ClientSampleId :

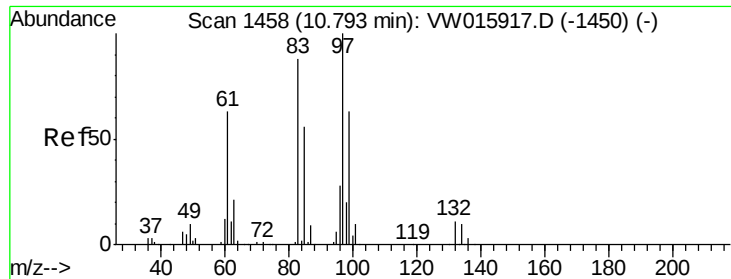
Tot Ion: 43 Resp: 2368190
Ion Ratio Lower Upper
43 100
58 29.5 31.0 46.4#
100 0.0 12.6 19.0#



#44
Toluene
Concen: 0.906 ug/L
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW015934.D
Acq: 23 Jul 2020 20:12

Tgt Ion: 91 Resp: 20408
Ion Ratio Lower Upper
91 100
92 48.5 41.2 76.4

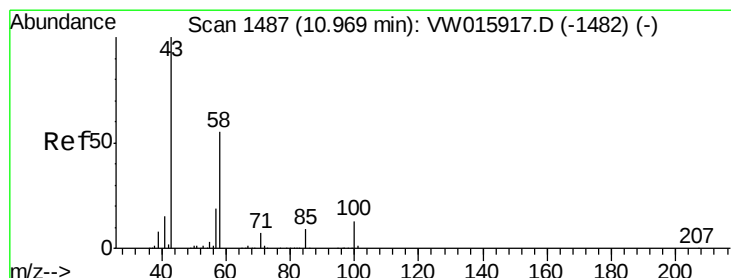
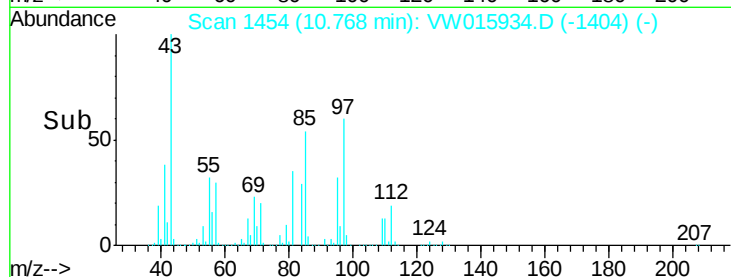
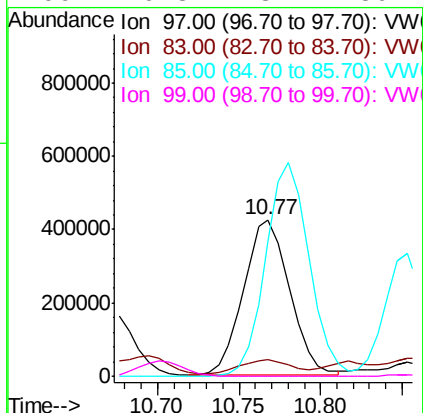
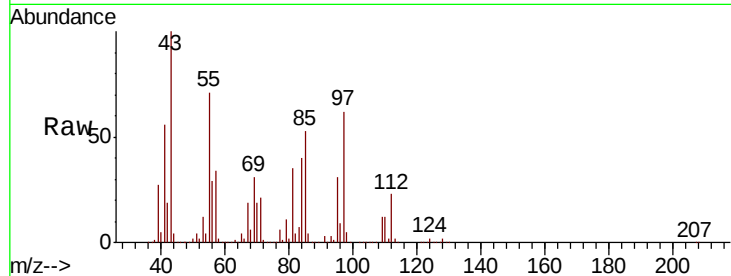




#46
 1,1,2-Trichloroethane
 Concen: 218.767 ug/L
 RT: 10.77 min Scan# 1454
 Delta R.T. -0.02 min
 Lab File: VW015934.D
 Acq: 23 Jul 2020 20:12

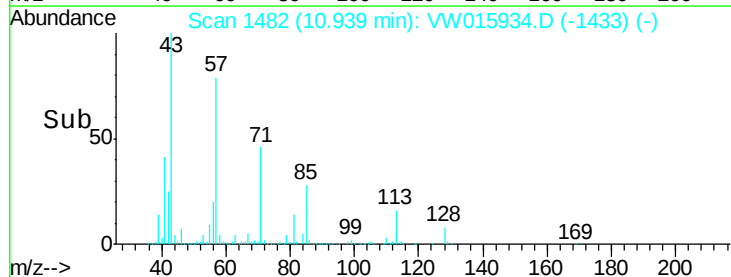
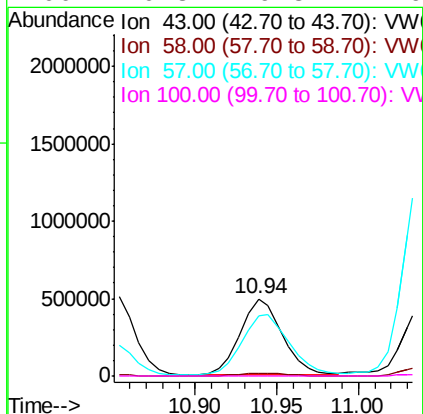
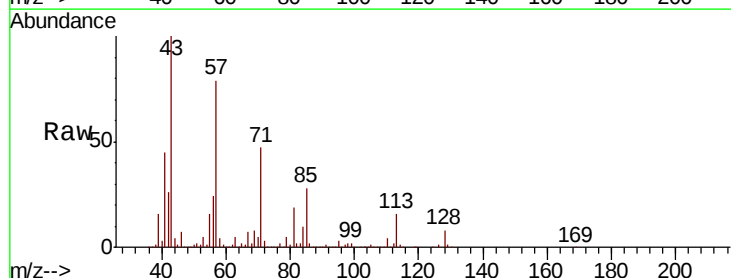
Instrument :
 MSVOA_W
 ClientSampled :

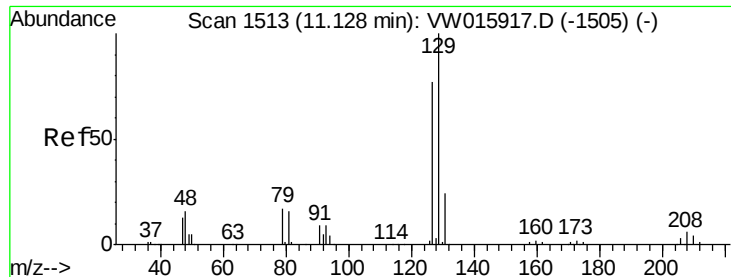
Tot Ion	97	Resp	837128
Ion Ratio	100	Lower	Upper
97	10.6	60.6	112.6#
83	86.2	38.9	72.2#
85	0.3	43.1	80.1#



#49
 2-Hexanone
 Concen: 399.489 ug/L
 RT: 10.94 min Scan# 1482
 Delta R.T. -0.03 min
 Lab File: VW015934.D
 Acq: 23 Jul 2020 20:12

Tgt Ion	43	Resp	880532
Ion Ratio	100	Lower	Upper
43	4.2	42.4	63.6#
58	89.7	15.6	23.4#
57	0.3	9.8	14.6#





#50

Dibromochloromethane

Concen: 1.632 ug/L

RT: 11.04 min Scan# 1499

Delta R.T. -0.09 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

Instrument :

MSVOA_W

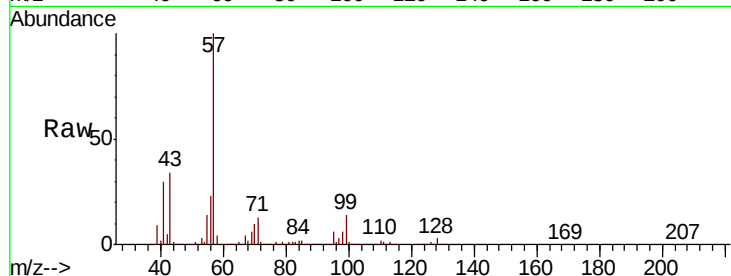
ClientSampled :

Tot Ion:129 Resp: 7229

Ion Ratio Lower Upper

129 100

127 63.7 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

11.04

4000

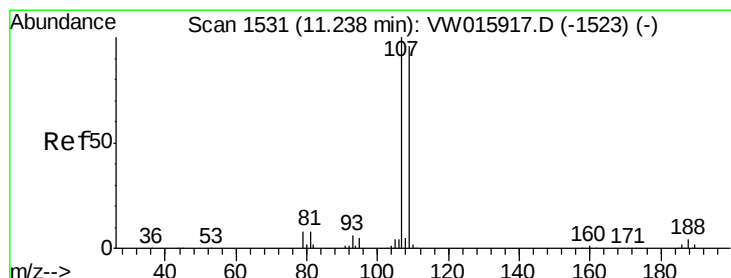
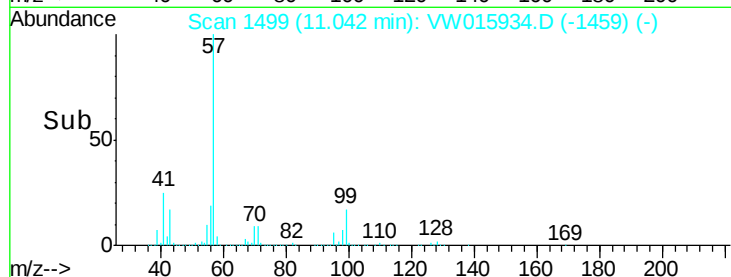
3000

2000

1000

0

Time--> 11.00 11.05 11.10



#51

1,2-Dibromoethane

Concen: 2.545 ug/L

RT: 11.21 min Scan# 1526

Delta R.T. -0.03 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

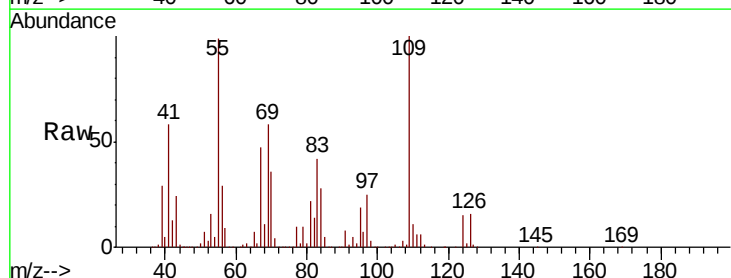
Tgt Ion:107 Resp: 9315

Ion Ratio Lower Upper

107 100

109 3389.8 66.9 124.3#

188 0.0 3.2 4.8#



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

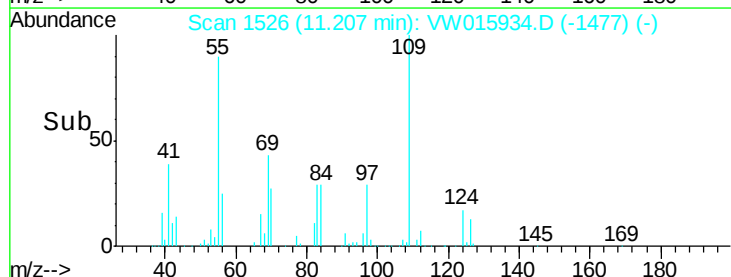
300000

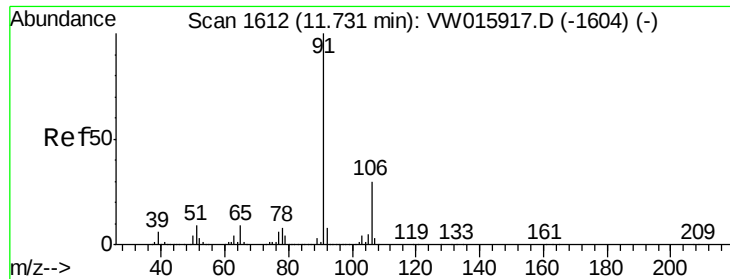
200000

100000

0

Time--> 11.15 11.20 11.25





#53

Ethylbenzene

Concen: 77.833 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. 0.01 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

Instrument :

MSVOA_W

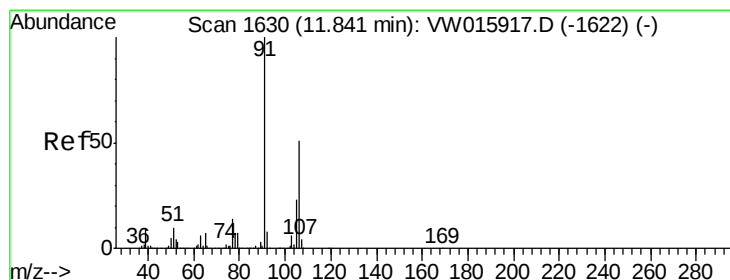
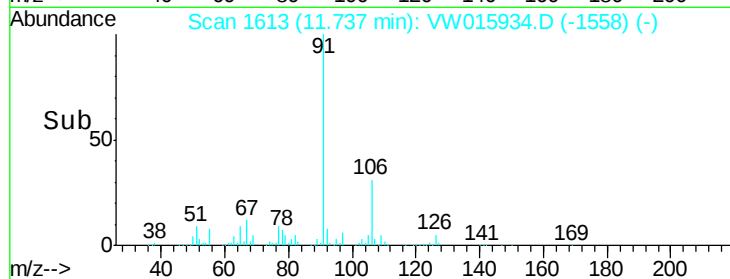
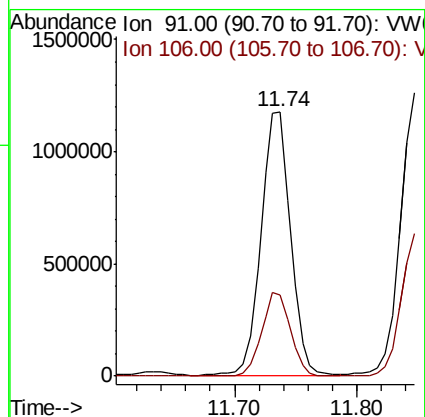
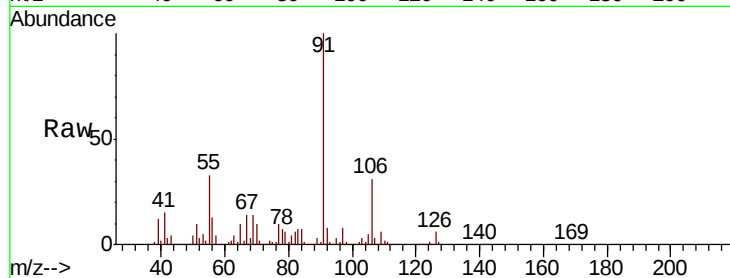
ClientSampleId :

Tot Ion: 91 Resp: 1971770

Ion Ratio Lower Upper

91 100

106 30.6 22.4 41.6



#54

m,p-Xylene

Concen: 105.971 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW015934.D

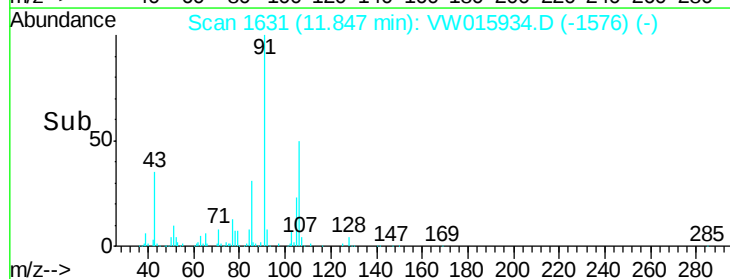
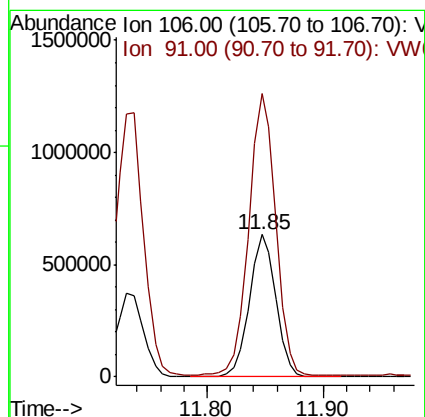
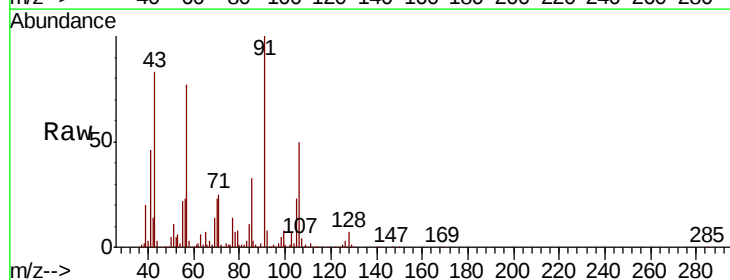
Acq: 23 Jul 2020 20:12

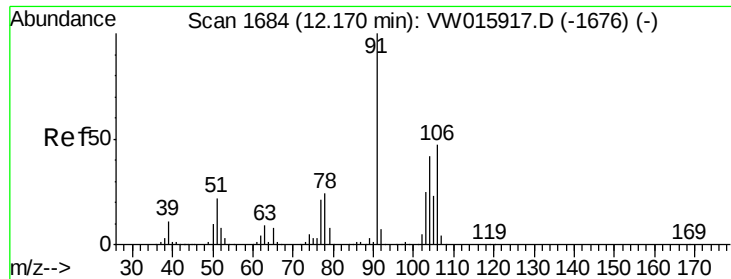
Tgt Ion: 106 Resp: 1004398

Ion Ratio Lower Upper

106 100

91 198.8 144.1 267.5

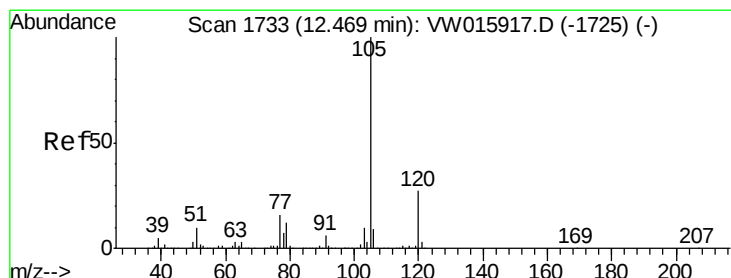
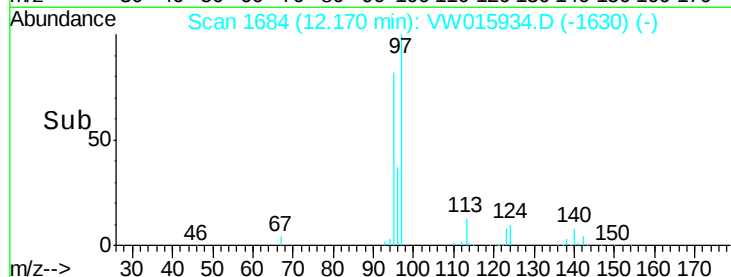
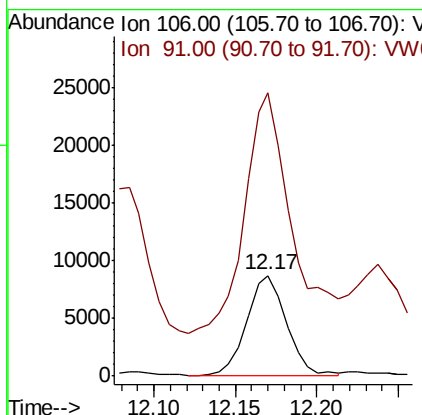
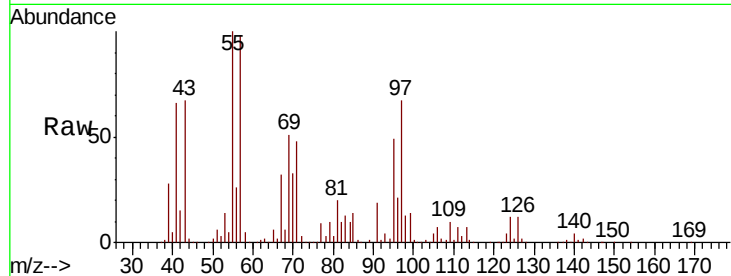




#55
o-xylene
Concen: 1.677 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW015934.D
Acq: 23 Jul 2020 20:12

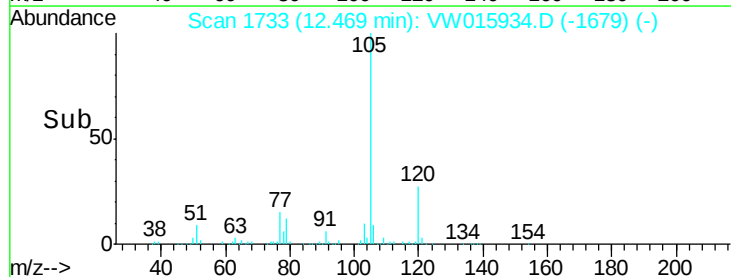
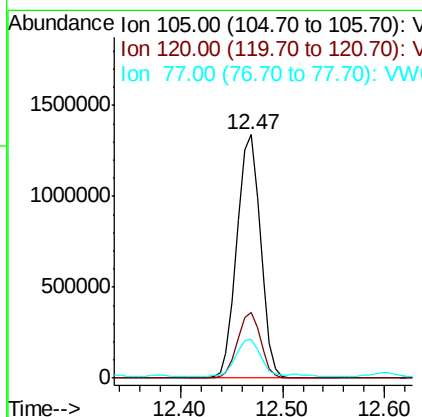
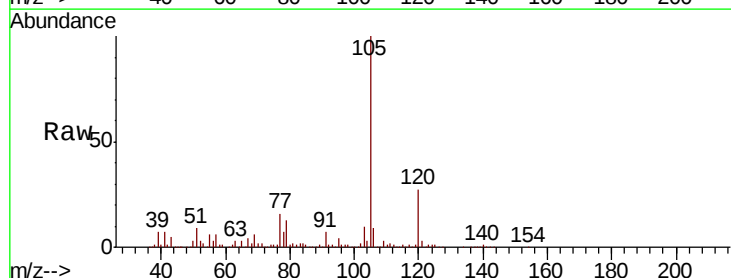
Instrument :
MSVOA_W
ClientSampled :

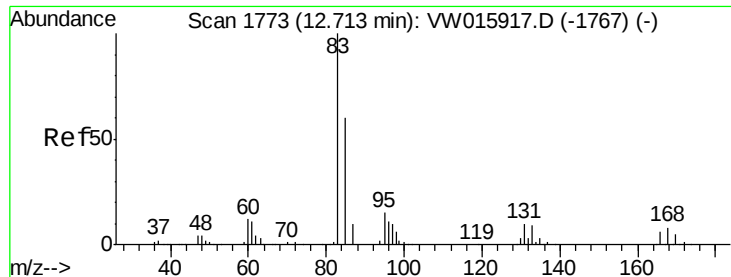
Tot Ion:106 Resp: 14967
Ion Ratio Lower Upper
106 100
91 281.0 146.8 272.6#



#57
Isopropylbenzene
Concen: 87.882 ug/L
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW015934.D
Acq: 23 Jul 2020 20:12

Tgt Ion:105 Resp: 2135099
Ion Ratio Lower Upper
105 100
120 26.6 20.4 30.6
77 16.4 12.9 19.3

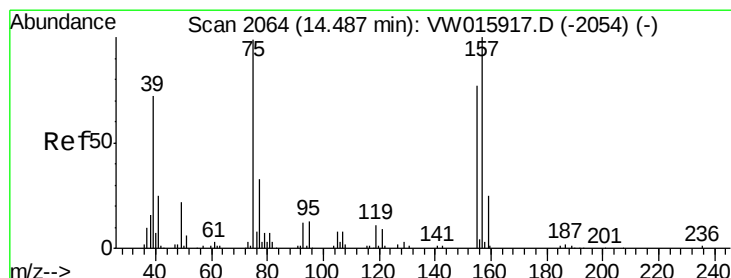
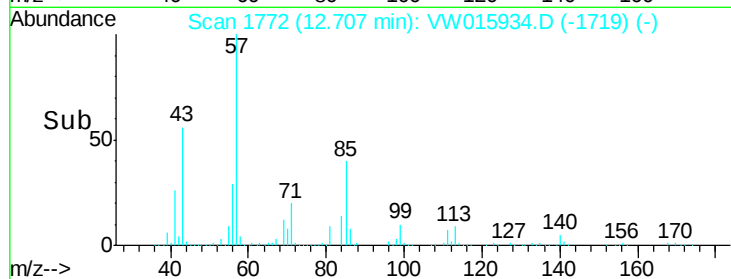
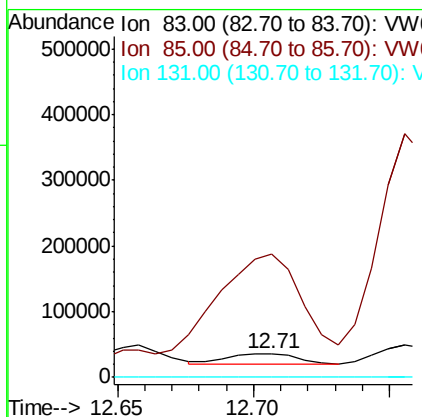
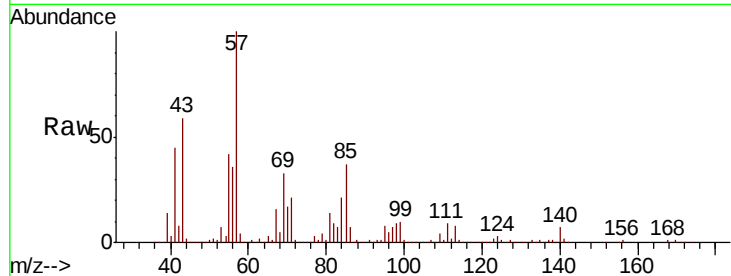




#58
 1,1,2,2-Tetrachloroethane
 Concen: 6.876 ug/L
 RT: 12.71 min Scan# 1772
 Delta R.T. -0.01 min
 Lab File: VW015934.D
 Acq: 23 Jul 2020 20:12

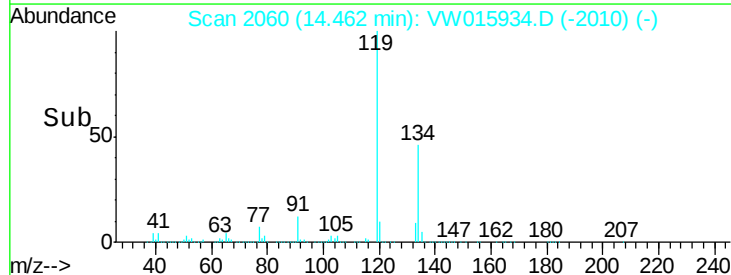
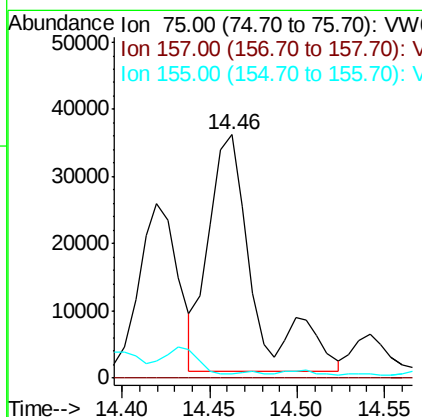
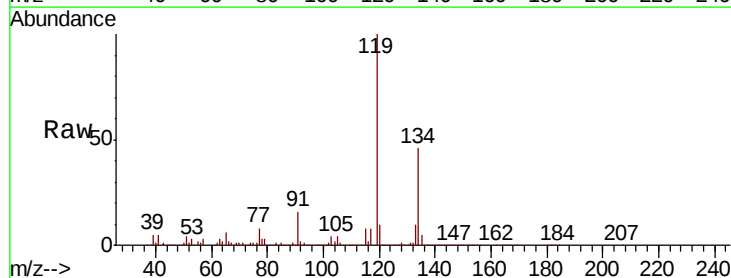
Instrument :
 MSVOA_W
 ClientSampleId :

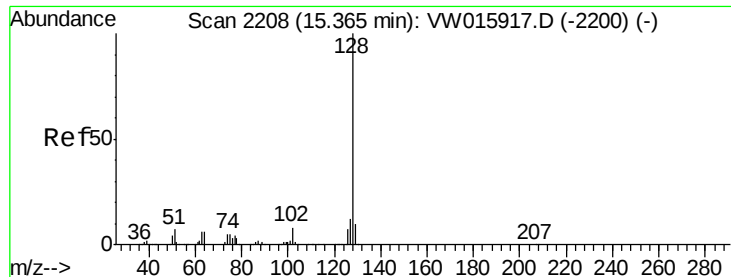
Tot Ion: 83 Resp: 30898
 Ion Ratio Lower Upper
 83 100
 85 515.3 45.1 83.7#
 131 1.1 8.2 12.4#



#66
 1,2-Dibromo-3-chloropropane
 Concen: 120.399 ug/L
 RT: 14.46 min Scan# 2060
 Delta R.T. -0.02 min
 Lab File: VW015934.D
 Acq: 23 Jul 2020 20:12

Tgt Ion: 75 Resp: 63527
 Ion Ratio Lower Upper
 75 100
 157 0.0 83.0 124.4#
 155 1.9 66.9 100.3#





#69

Naphthalene

Concen: 123.700 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW015934.D

Acq: 23 Jul 2020 20:12

Instrument :

MSVOA_W

ClientSampleId :

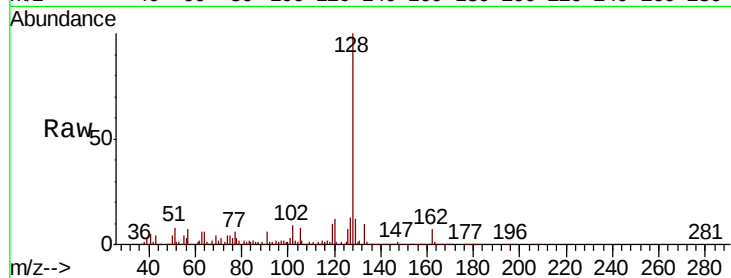
Tot Ion:128 Resp: 1004484

Ion Ratio Lower Upper

128 100

129 10.3 8.6 12.8

127 15.7 10.5 15.7#



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

