

Data File : VW014366.D
Acq On : 16 Dec 2019 13:59
Operator : SY/VA
Sample : K6270-04RE
Misc : 5.56G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ETK82RE

Quant Time: Dec 17 07:29:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Tue Dec 17 07:27:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	105726	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	68598	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.54	152	15148	25.00	ug/L	-0.02

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	47335	29.57	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	118.28%
7) Chloroethane-d5	2.88	69	41645	34.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	139.92%
10) 1,1-Dichloroethene-d2	4.01	63	57961	20.50	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	82.00%
20) 2-Butanone-d5	7.08	46	27577	66.10	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	132.20%
24) Chloroform-d	7.65	84	81695	30.35	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	121.40%
26) 1,2-Dichloroethane-d4	8.37	65	166	0.12	ug/L	0.07
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.48%#
29) Benzene-d6	8.27	84	146138	36.35	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	145.40%#
33) 1,2-Dichloropropane-d6	9.27	67	48690	39.36	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	157.44%#
37) Toluene-d8	10.32	98	82553	22.71	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.84%
38) trans-1,3-Dichloropropene-	10.58	79	16268	31.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	125.40%
39) 2-Hexanone-d5	10.92	63	15362	62.46	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	124.92%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	42344	42.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	168.04%#
61) 1,2-Dichlorobenzene-d4	14.11	152	425	0.73	ug/L	0.26
Spiked Amount	25.000	Range	75 - 120	Recovery	=	2.92%#

Target Compounds

					Qvalue
13) Acetone	4.12	43	19035	47.322 ug/L	95
16) Methylene chloride	4.92	84	4509	2.782 ug/L	89
21) 2-Butanone	7.18	43	3122	5.781 ug/L #	59
30) Cyclohexane	7.96	56	5782	3.377 ug/L	90
34) Benzene	8.32	78	4096	0.943 ug/L	100
36) Methylcyclohexane	9.33	83	3419	1.831 ug/L #	62
42) cis-1,3-Dichloropropene	10.04	75	1146	0.686 ug/L #	42
44) Toluene	10.39	91	15955	3.504 ug/L	94
47) Tetrachloroethene	10.85	164	932	1.006 ug/L	87
50) Dibromochloromethane	10.87	129	880	0.938 ug/L #	10
51) 1,2-Dibromoethane	11.23	107	1290	1.629 ug/L #	1
53) Ethylbenzene	11.73	91	8053	1.630 ug/L	97
54) m,p-Xylene	11.83	106	4718	2.482 ug/L	91
55) o-xylene	12.16	106	2835	1.573 ug/L	88
57) Isopropylbenzene	12.46	105	5531	1.182 ug/L #	1
58) 1,1,2,2-Tetrachloroethane	12.68	83	53240	51.299 ug/L #	62
63) 1,3-Dichlorobenzene	13.50	146	1473	1.447 ug/L #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW121619\
Quantitation Report (Not Reviewed)

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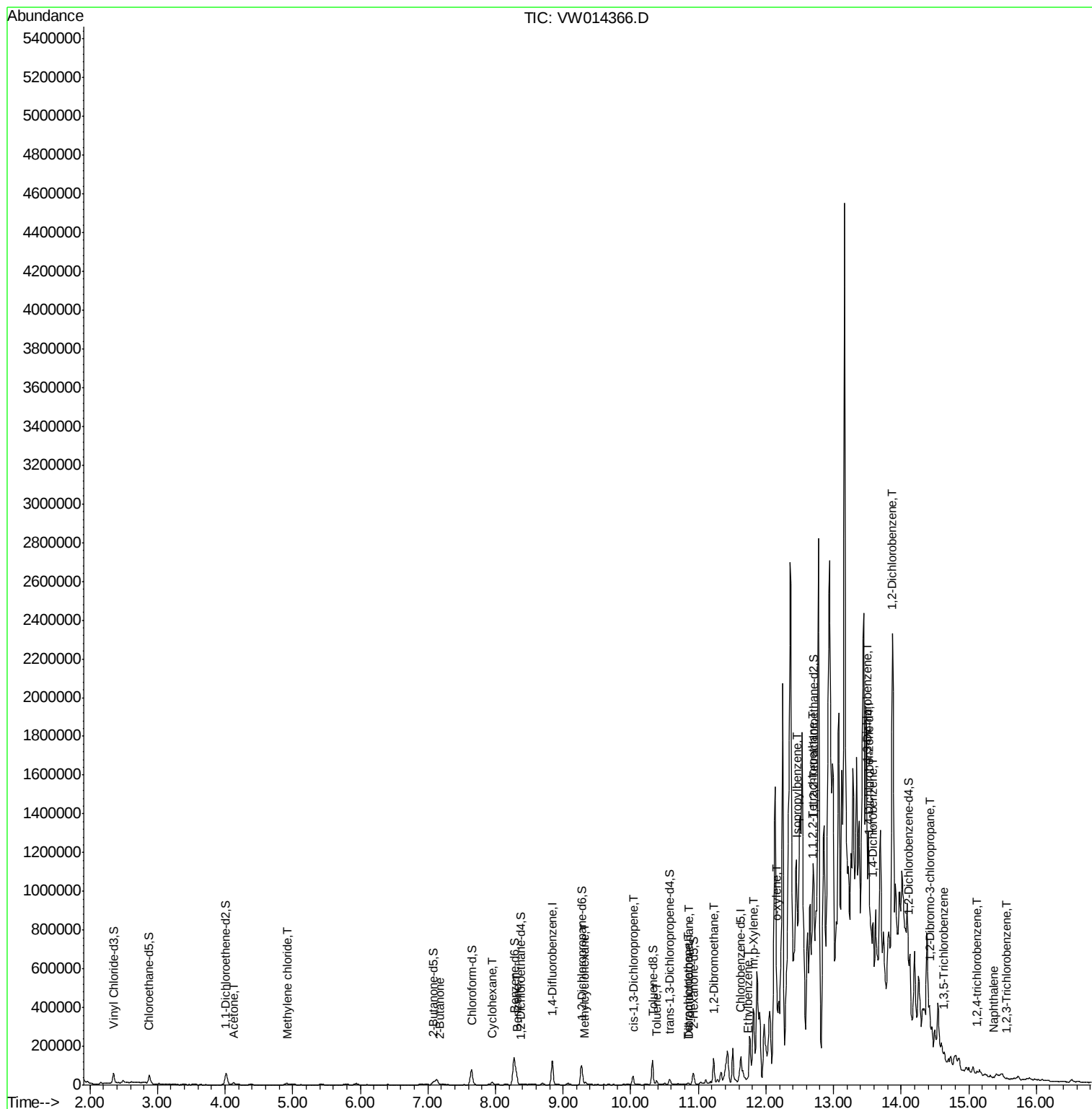
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,4-Dichlorobenzene	13.58	146	4345	4.200	ug/L #	1
65) 1,2-Dichlorobenzene	13.86	146	14503	15.318	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.43	75	1390	19.031	ug/L #	1
67) 1,3,5-Trichlorobenzene	14.63	180	718	0.980	ug/L #	48
68) 1,2,4-trichlorobenzene	15.13	180	782	1.369	ug/L #	1
69) Naphthalene	15.36	128	1109	1.033	ug/L #	67
70) 1,2,3-Trichlorobenzene	15.55	180	384	0.717	ug/L #	56

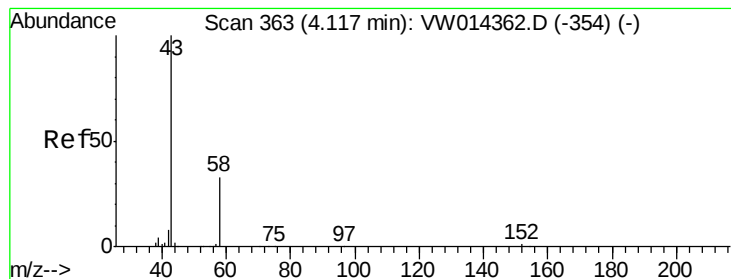
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 47.322 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Instrument :

MSVOA_W

ClientSampleId :

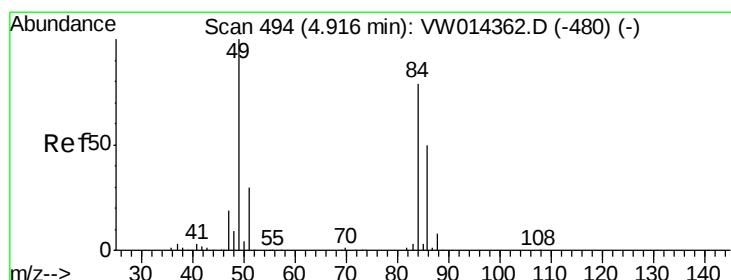
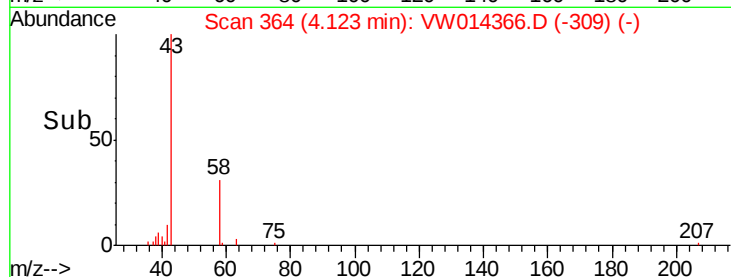
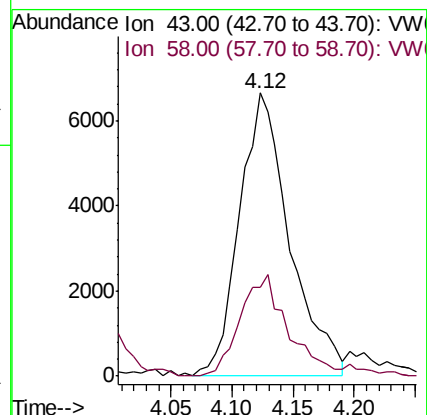
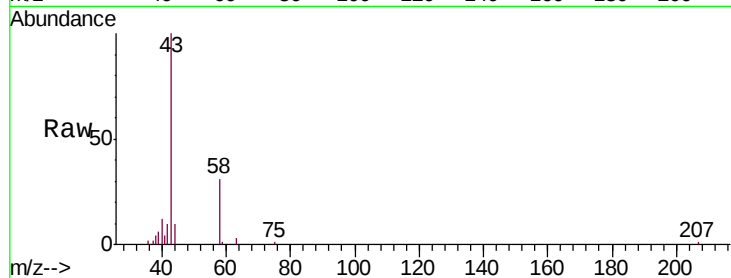
ETK82RE

Tgt Ion: 43 Resp: 19035

Ion Ratio Lower Upper

43 100

58 29.9 0.0 65.4



#16

Methylene chloride

Concen: 2.782 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

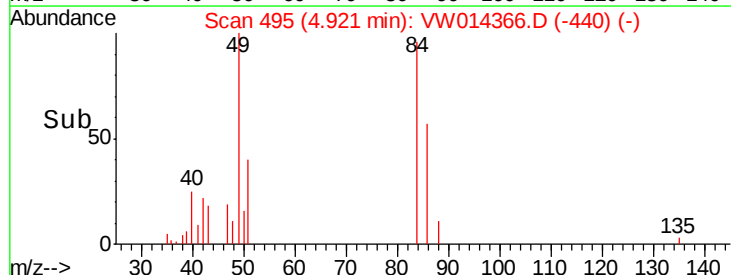
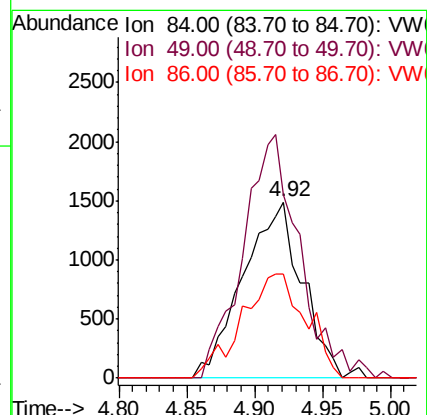
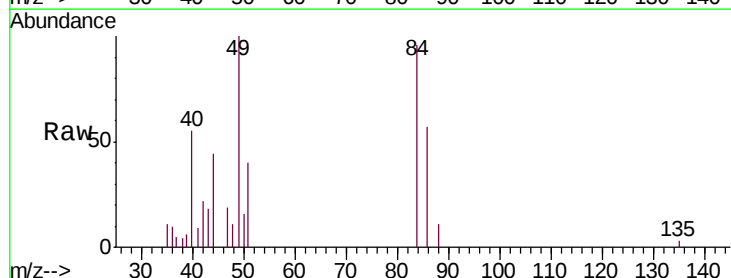
Tgt Ion: 84 Resp: 4509

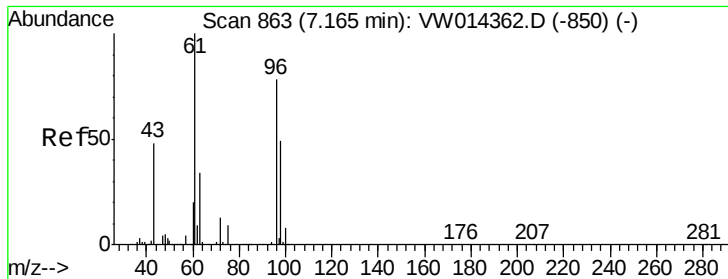
Ion Ratio Lower Upper

84 100

49 104.3 84.2 156.4

86 59.3 43.7 81.1

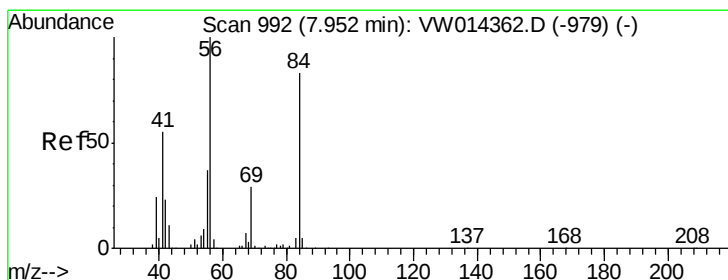
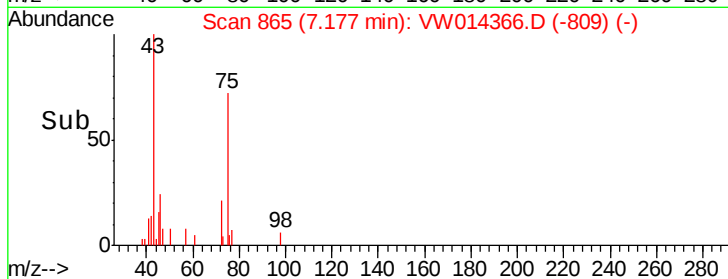
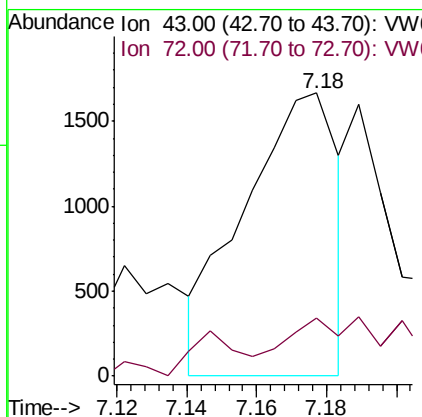
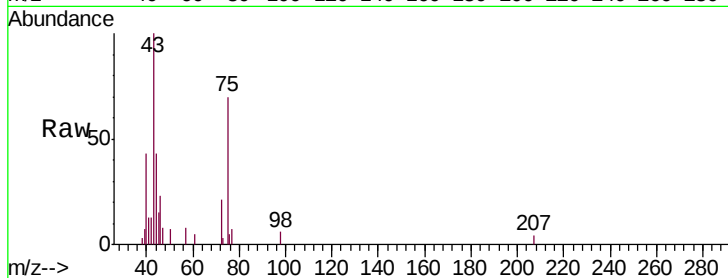




#21
2-Butanone
Concen: 5.781 ug/L
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW014366.D
Acq: 16 Dec 2019 13:59

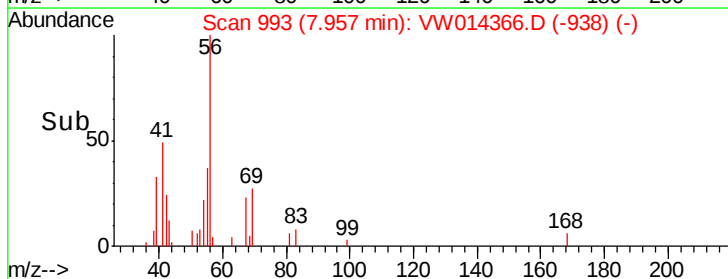
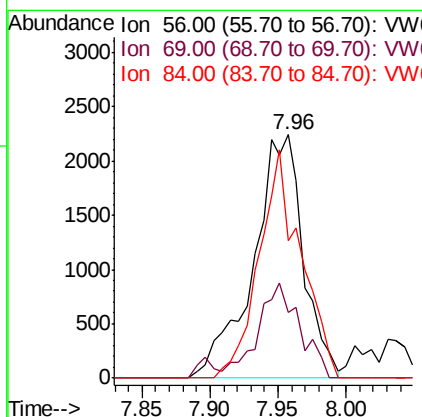
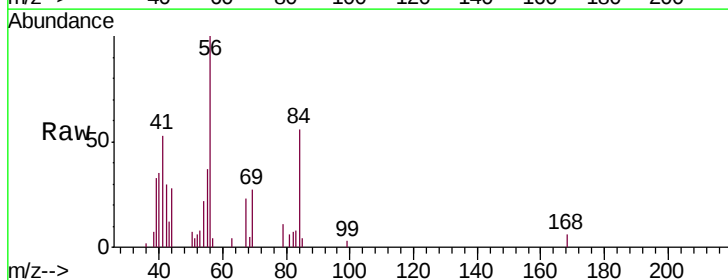
Instrument :
MSVOA_W
ClientSampleId :
ETK82RE

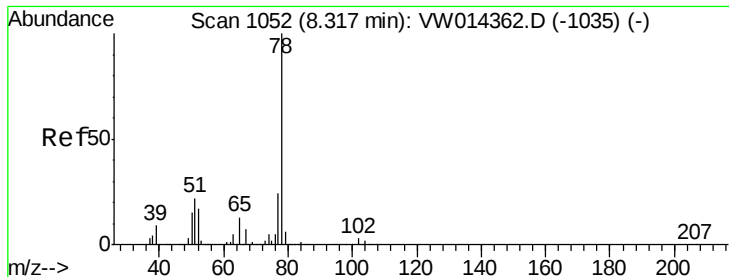
Tgt Ion: 43 Resp: 3122
Ion Ratio Lower Upper
43 100
72 6.3 14.1 42.2#



#30
Cyclohexane
Concen: 3.377 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.01 min
Lab File: VW014366.D
Acq: 16 Dec 2019 13:59

Tgt Ion: 56 Resp: 5782
Ion Ratio Lower Upper
56 100
69 25.1 24.6 37.0
84 78.0 70.2 105.2





#34

Benzene

Concen: 0.943 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

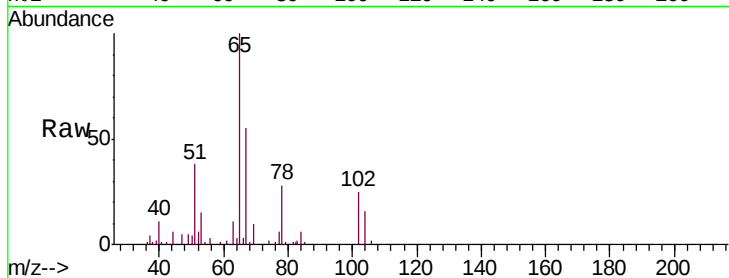
Instrument :

MSVOA_W

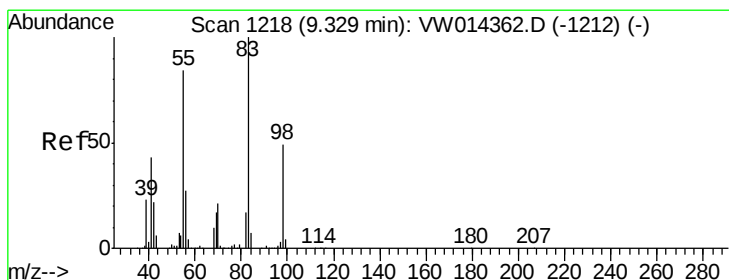
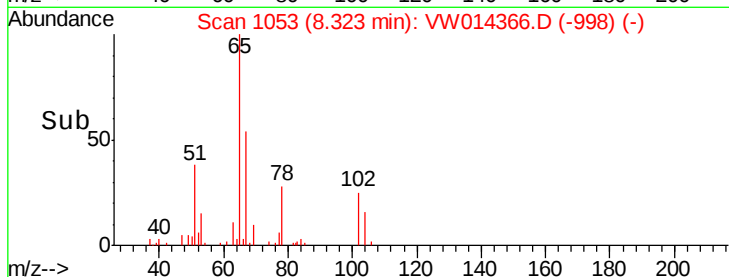
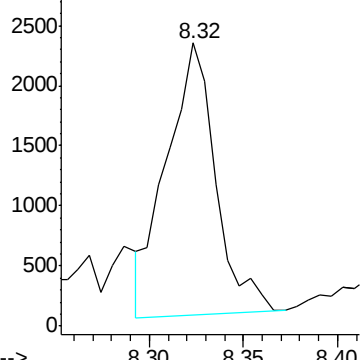
ClientSampleId :

ETK82RE

Tgt Ion: 78 Resp: 4096



Abundance Ion 78.00 (77.70 to 78.70): VW



#36

Methylcyclohexane

Concen: 1.831 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VW014366.D

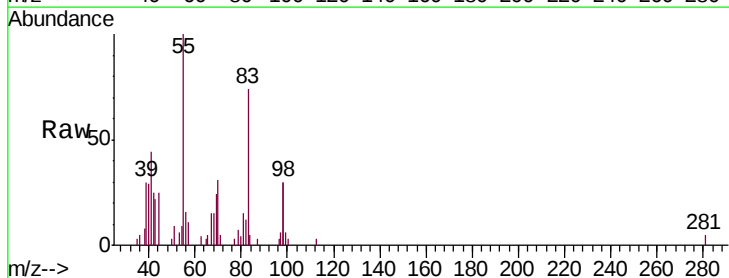
Acq: 16 Dec 2019 13:59

Tgt Ion: 83 Resp: 3419

Ion	Ratio	Lower	Upper
83	100		

55	117.8	59.8	89.8#
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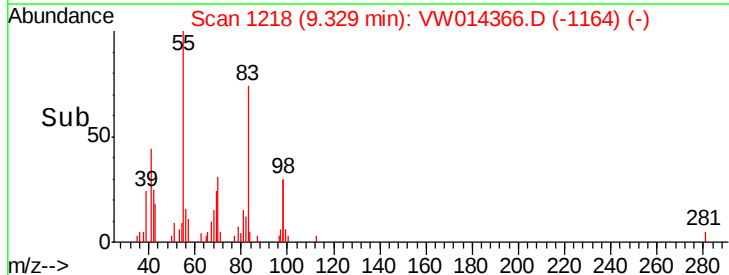
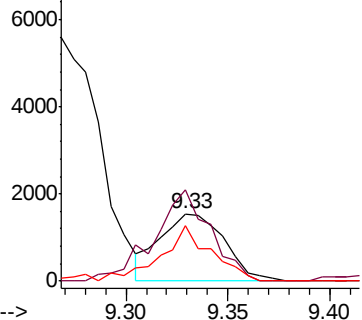
98	63.2	39.5	59.3#
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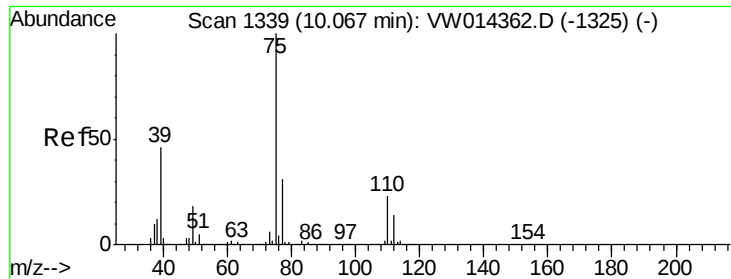


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#42

cis-1,3-Dichloropropene

Concen: 0.686 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.03 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Instrument :

MSVOA_W

ClientSampleId :

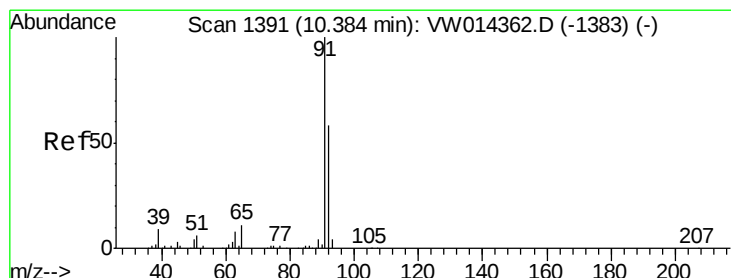
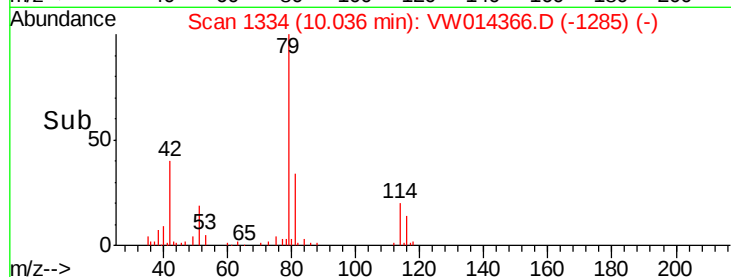
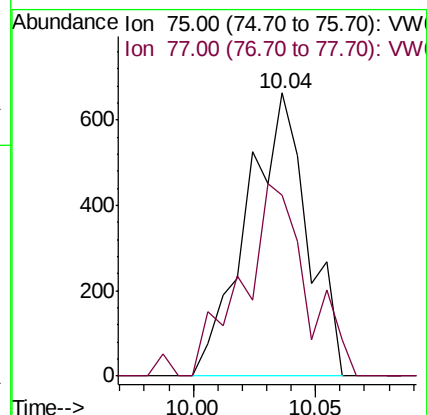
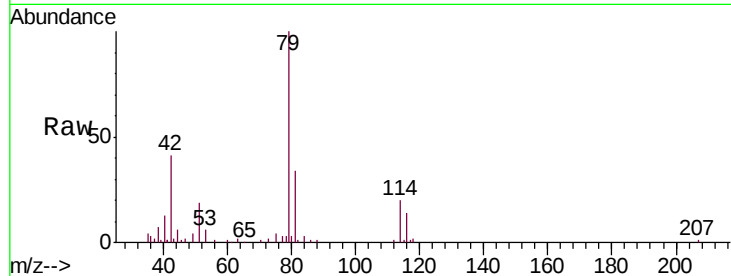
ETK82RE

Tgt Ion: 75 Resp: 1146

Ion Ratio Lower Upper

75 100

77 63.8 22.1 41.1#



#44

Toluene

Concen: 3.504 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW014366.D

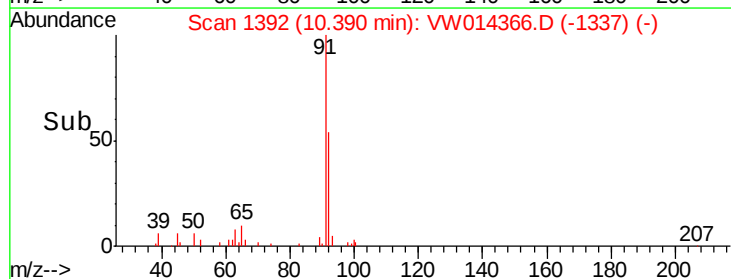
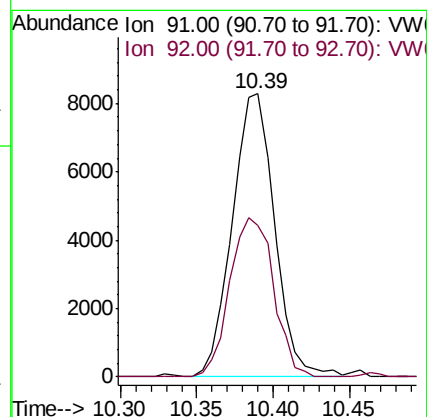
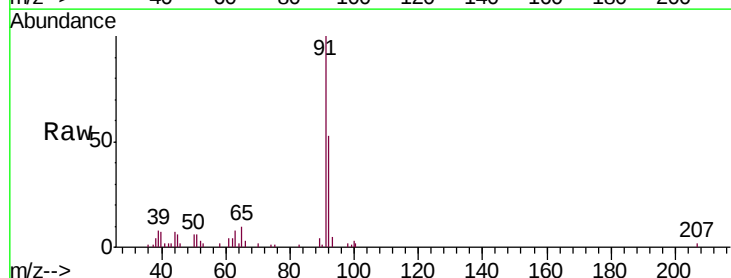
Acq: 16 Dec 2019 13:59

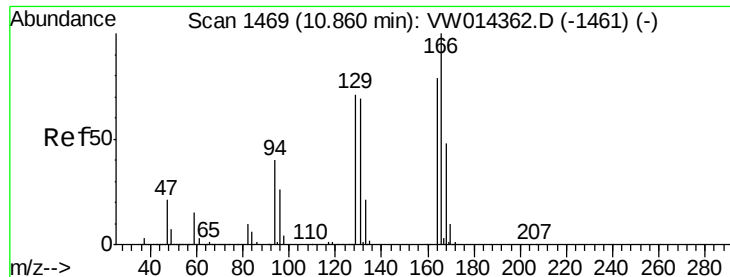
Tgt Ion: 91 Resp: 15955

Ion Ratio Lower Upper

91 100

92 53.4 40.7 75.7





#47

Tetrachloroethene

Concen: 1.006 ug/L

RT: 10.85 min Scan# 1468

Delta R.T. -0.01 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Instrument :

MSVOA_W

ClientSampleId :

ETK82RE

Tgt Ion:164 Resp: 932

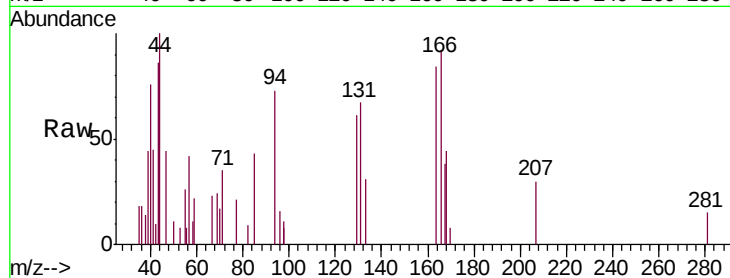
Ion Ratio Lower Upper

164 100

129 73.2 60.6 112.6

131 80.0 59.1 109.7

166 110.3 90.8 168.6

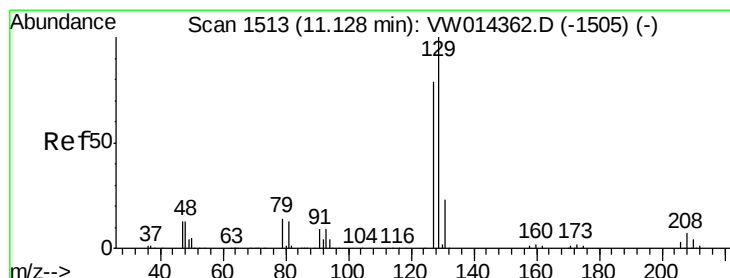
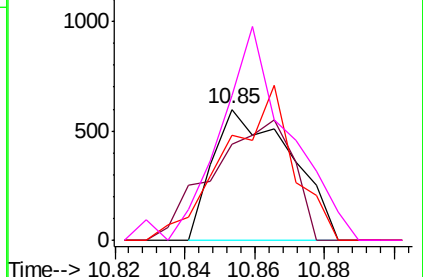
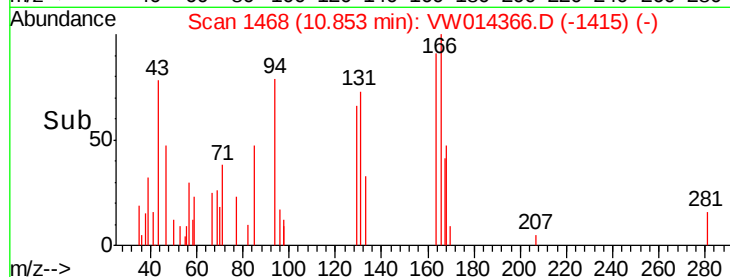


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#50

Dibromochloromethane

Concen: 0.938 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. -0.26 min

Lab File: VW014366.D

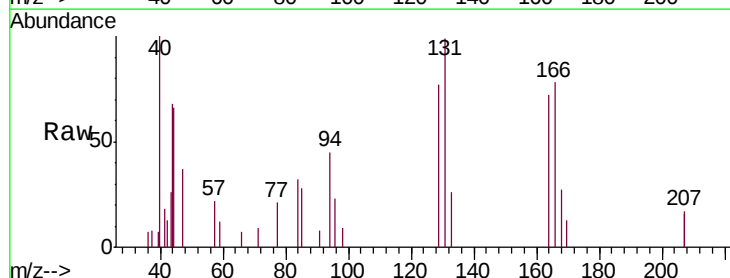
Acq: 16 Dec 2019 13:59

Tgt Ion:129 Resp: 880

Ion Ratio Lower Upper

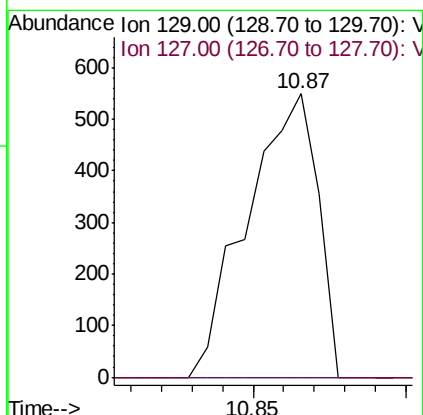
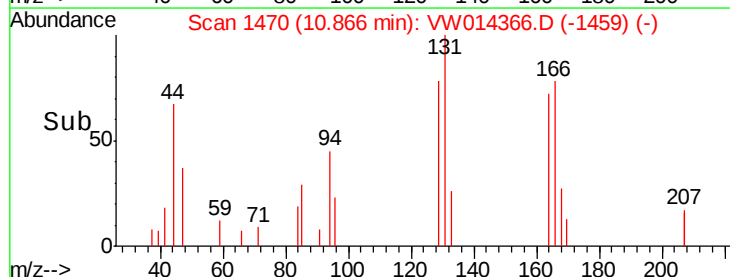
129 100

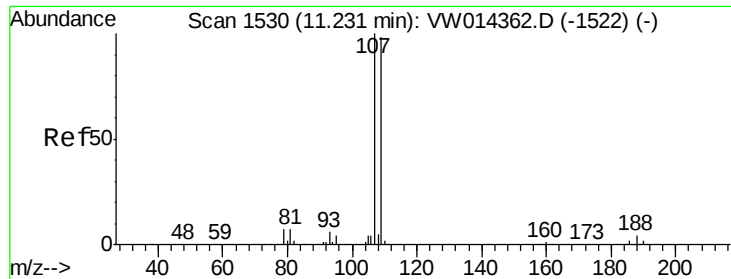
127 0.0 54.9 102.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 1.629 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Instrument :

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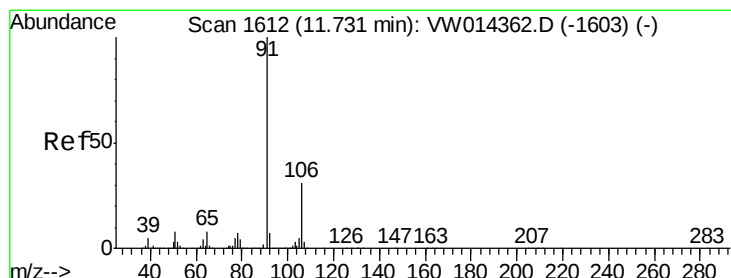
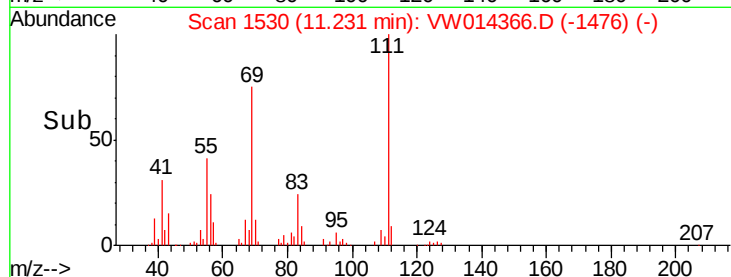
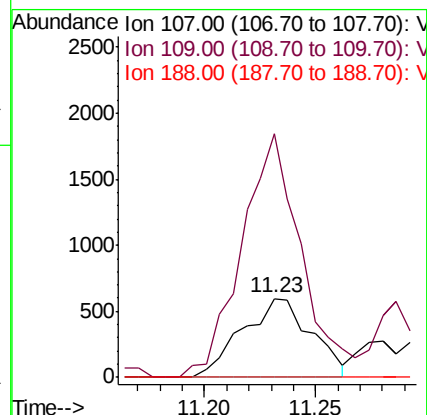
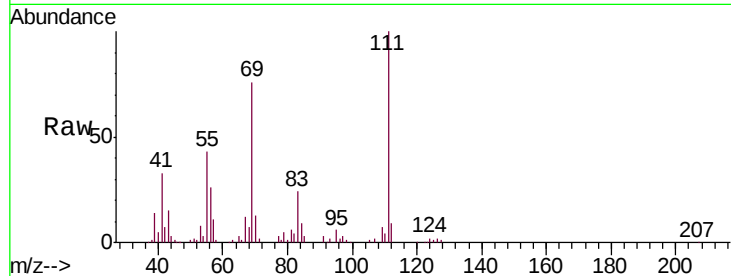
Tgt Ion: 107 Resp: 1290

Ion Ratio Lower Upper

107 100

109 307.8 64.6 120.0#

188 0.0 3.9 5.9#



#53

Ethylbenzene

Concen: 1.630 ug/L

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW014366.D

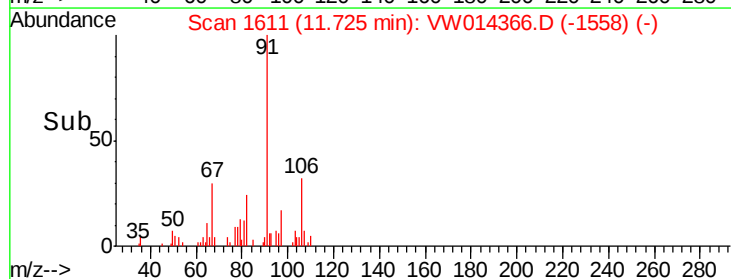
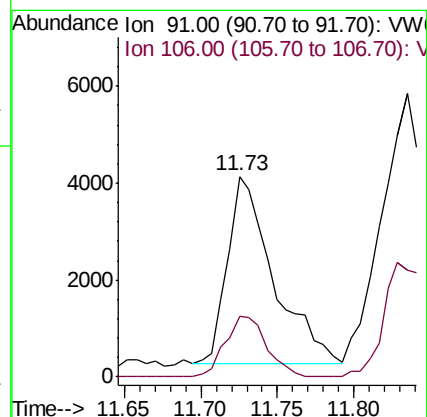
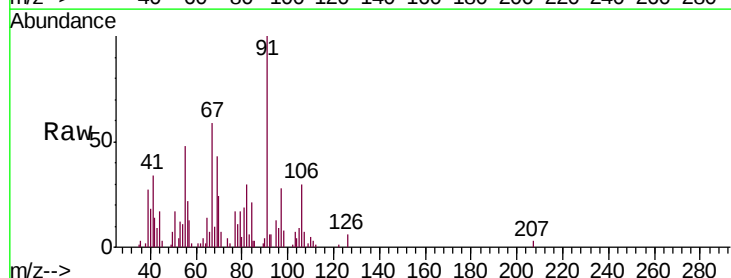
Acq: 16 Dec 2019 13:59

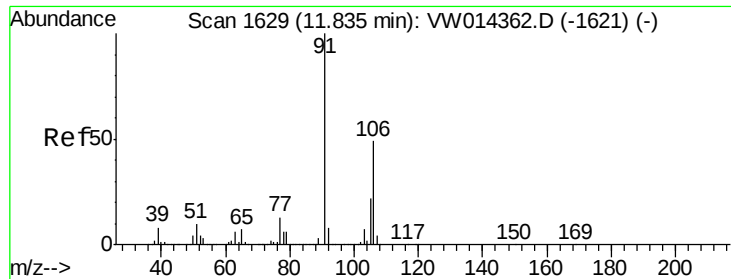
Tgt Ion: 91 Resp: 8053

Ion Ratio Lower Upper

91 100

106 30.4 22.3 41.5





#54

m,p-Xylene

Concen: 2.482 ug/L

RT: 11.83 min Scan# 1628

Delta R.T. -0.01 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Instrument :

MSVOA_W

ClientSampleId :

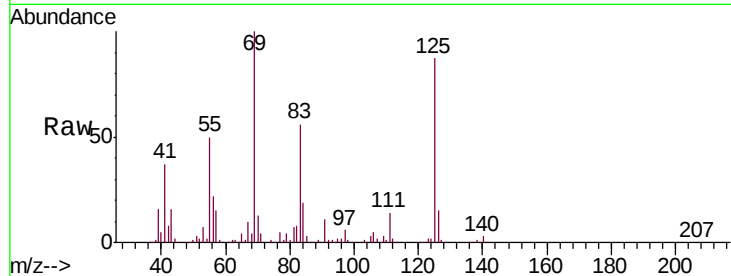
ETK82RE

Tgt Ion:106 Resp: 4718

Ion Ratio Lower Upper

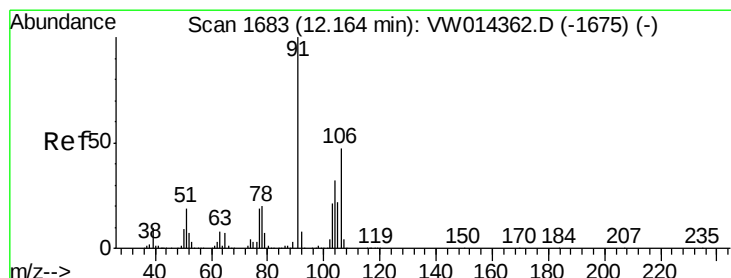
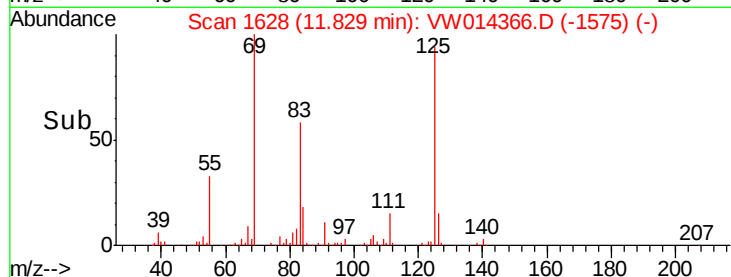
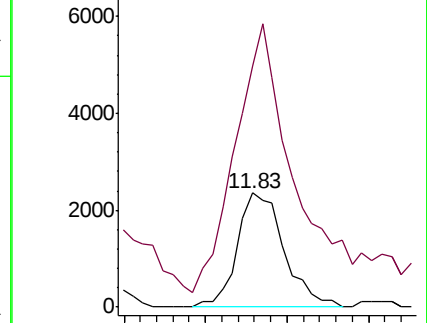
106 100

91 211.4 138.7 257.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 1.573 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014366.D

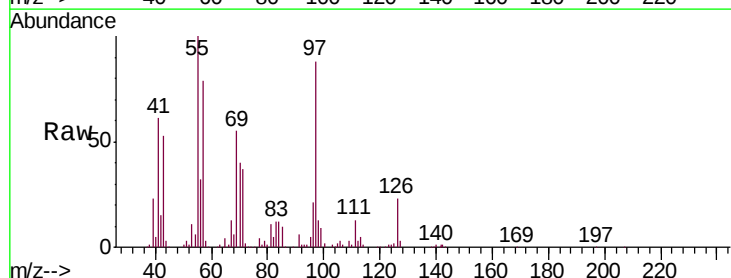
Acq: 16 Dec 2019 13:59

Tgt Ion:106 Resp: 2835

Ion Ratio Lower Upper

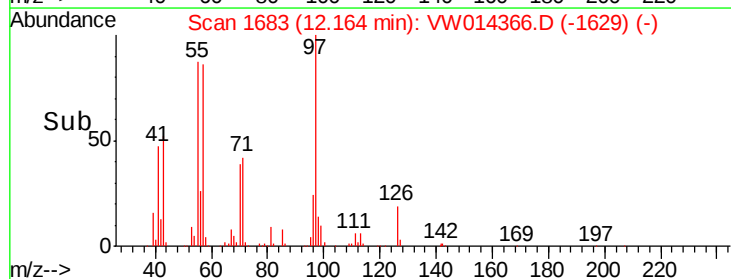
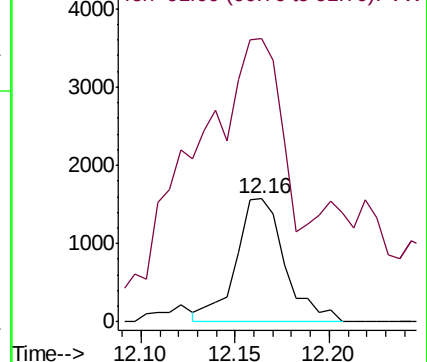
106 100

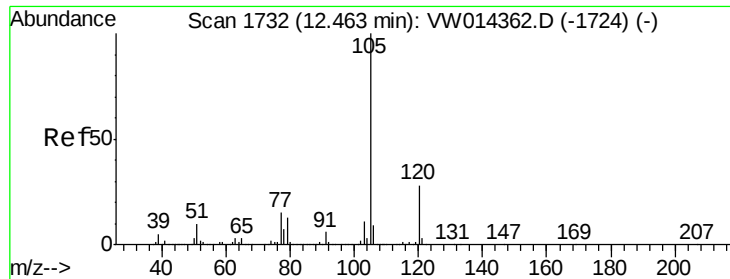
91 230.5 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 1.182 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

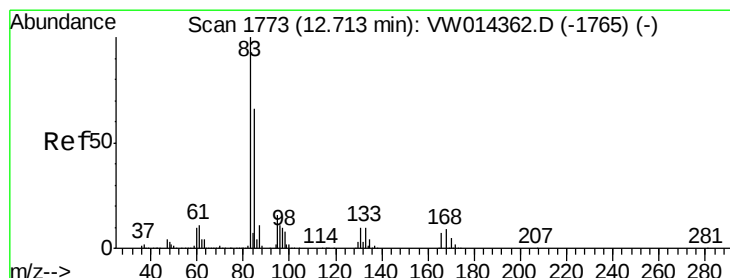
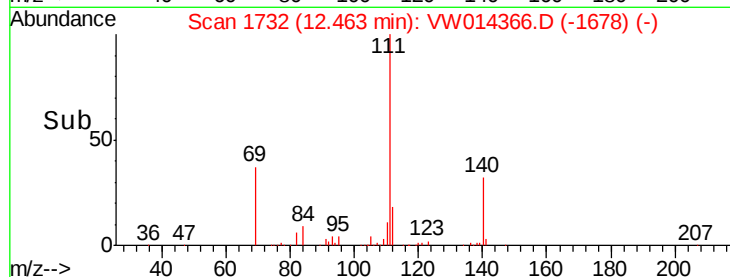
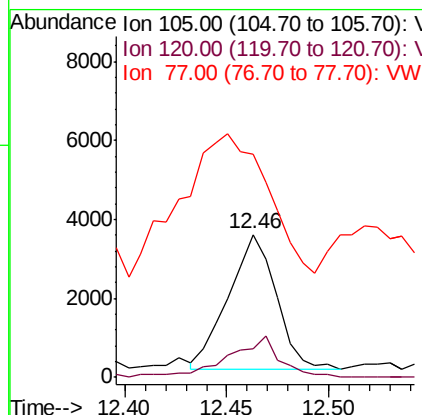
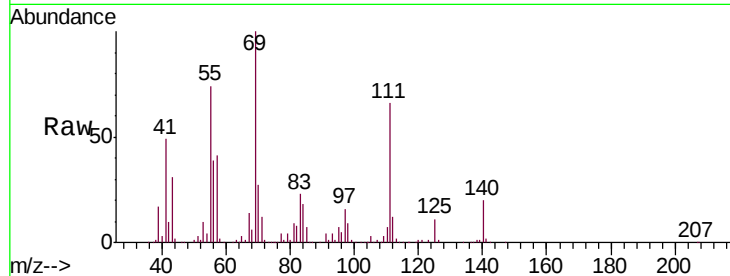
Instrument :

MSVOA_W

ClientSampleId :

ETK82RE

Tgt Ion:	105	Resp:	5531
Ion Ratio	Lower	Upper	
105	100		
120	31.5	21.6	32.4
77	193.2	11.6	17.4#



#58

1,1,2,2-Tetrachloroethane

Concen: 51.299 ug/L

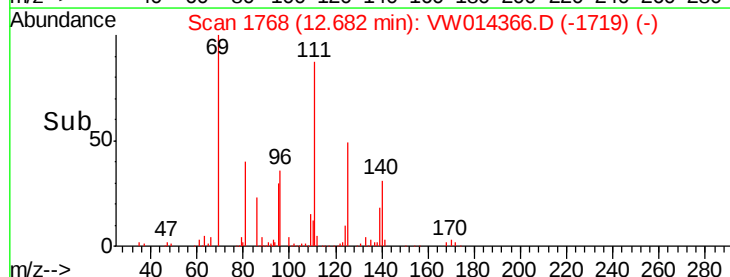
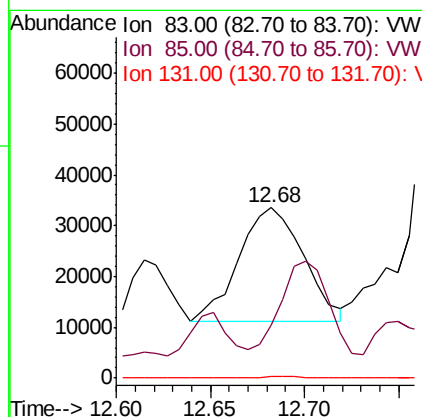
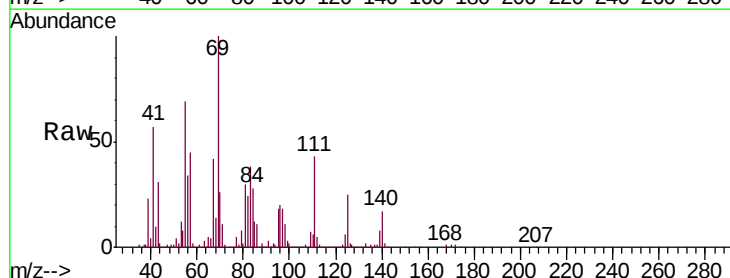
RT: 12.68 min Scan# 1768

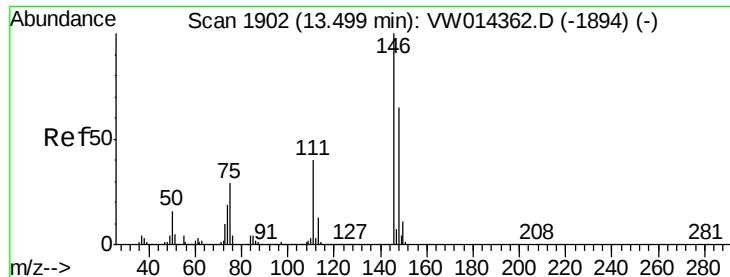
Delta R.T. -0.03 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Tgt Ion:	83	Resp:	53240
Ion Ratio	Lower	Upper	
83	100		
85	31.3	43.7	81.1#
131	0.9	8.2	12.2#

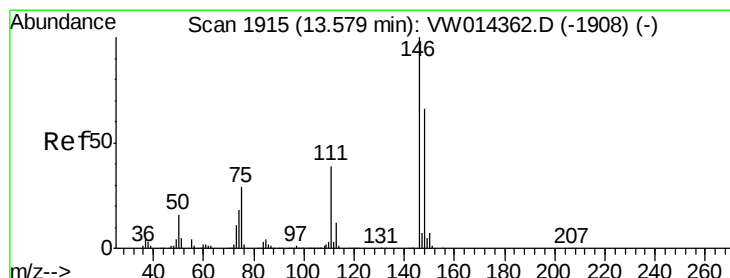
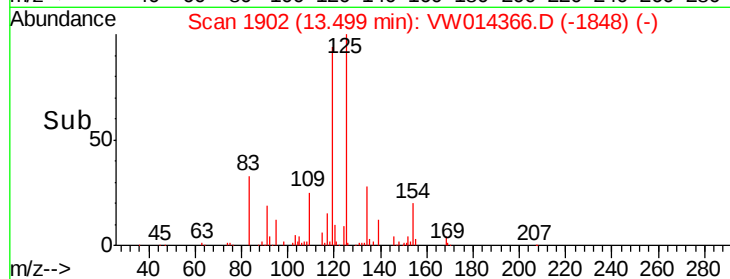
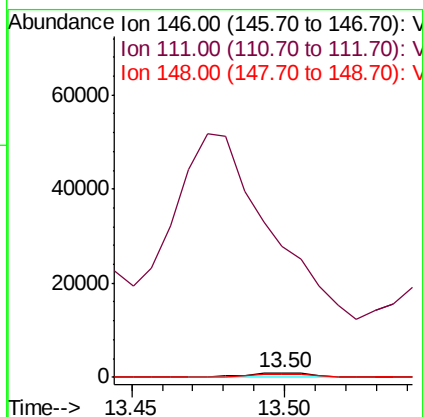
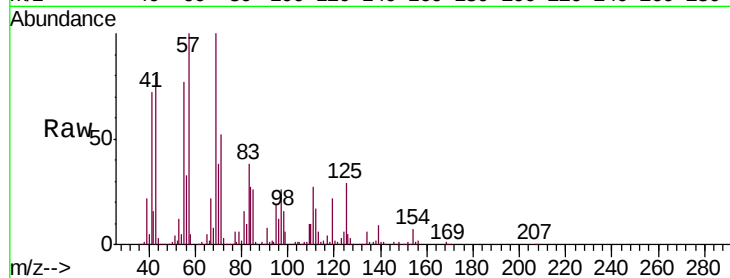




#63
 1,3-Dichlorobenzene
 Concen: 1.447 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW014366.D
 Acq: 16 Dec 2019 13:59

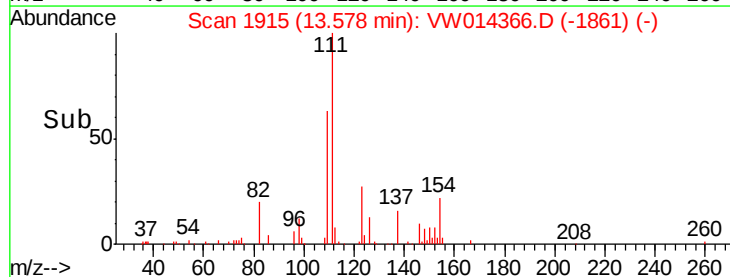
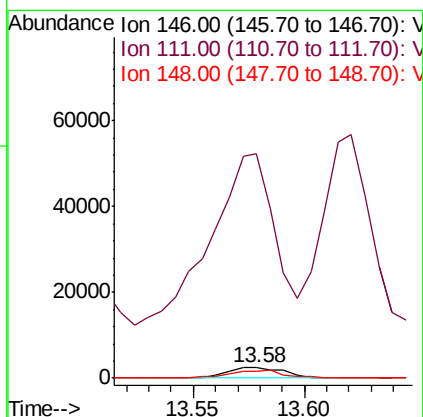
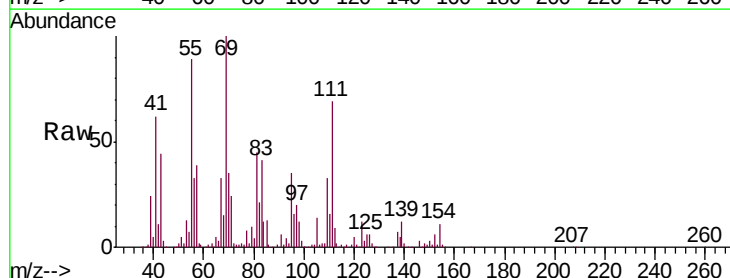
Instrument :
 MSVOA_W
 ClientSampleId :
 ETK82RE

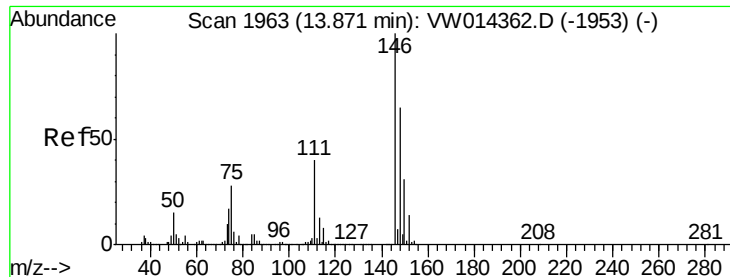
Tgt Ion:146 Resp: 1473
 Ion Ratio Lower Upper
 146 100
 111 2868.2 26.0 48.2#
 148 54.2 44.7 82.9



#64
 1,4-Dichlorobenzene
 Concen: 4.200 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW014366.D
 Acq: 16 Dec 2019 13:59

Tgt Ion:146 Resp: 4345
 Ion Ratio Lower Upper
 146 100
 111 2118.4 24.9 46.3#
 148 67.6 43.9 81.5





#65

1,2-Dichlorobenzene

Concen: 15.318 ug/L

RT: 13.86 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

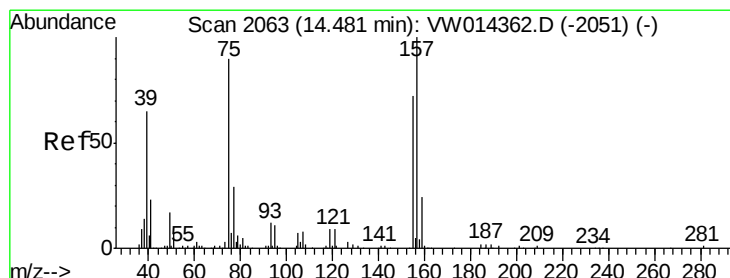
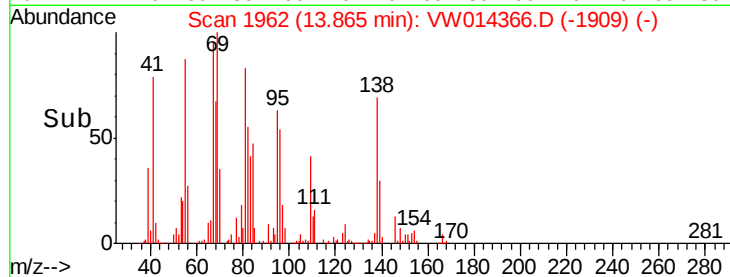
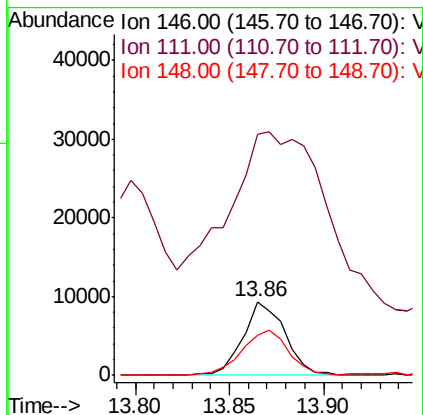
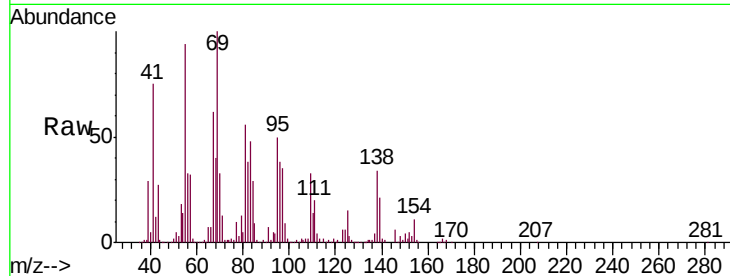
Instrument :

MSVOA_W

ClientSampleId :

ETK82RE

Tgt Ion:	146	Resp:	14503
Ion	Ratio	Lower	Upper
146	100		
111	325.5	30.5	45.7#
148	54.2	49.4	74.2



#66

1,2-Dibromo-3-chloropropane

Concen: 19.031 ug/L

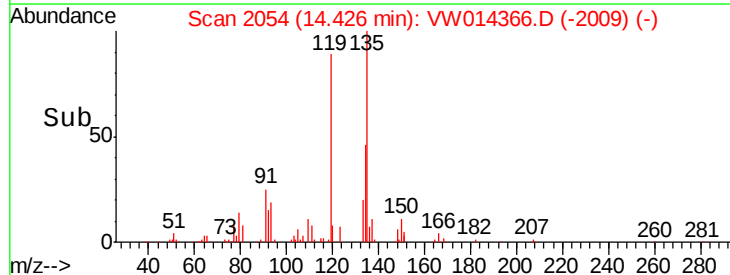
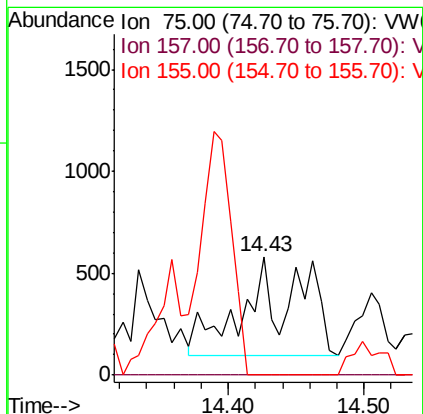
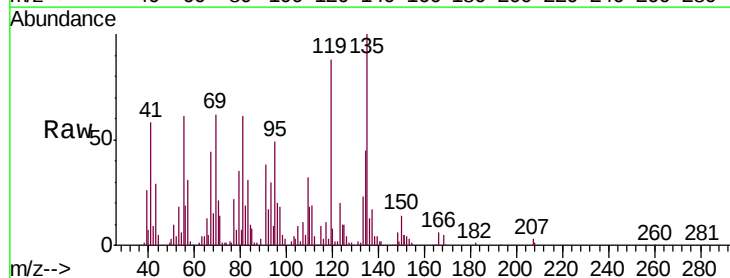
RT: 14.43 min Scan# 2054

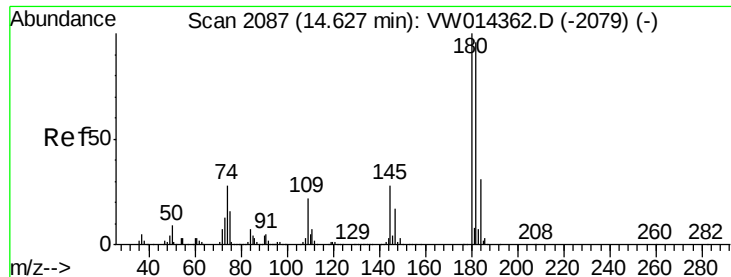
Delta R.T. -0.06 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Tgt Ion:	75	Resp:	1390
Ion	Ratio	Lower	Upper
75	100		
157	0.0	96.9	145.3#
155	0.0	82.9	124.3#





#67

1,3,5-Trichlorobenzene

Concen: 0.980 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. -0.00 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

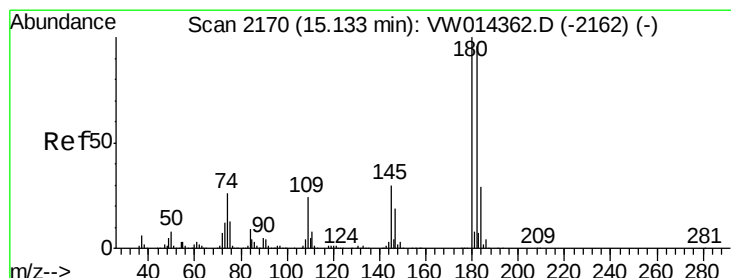
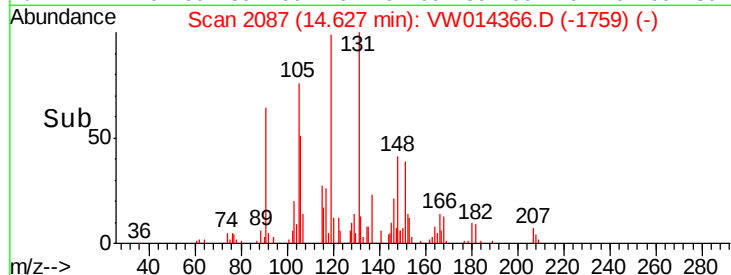
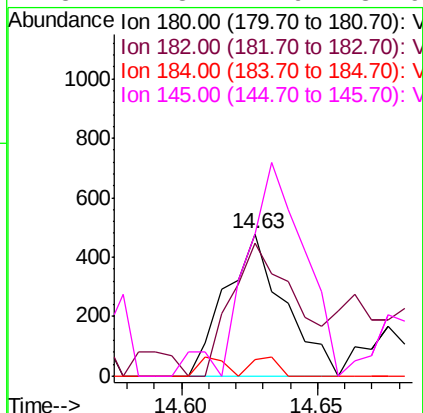
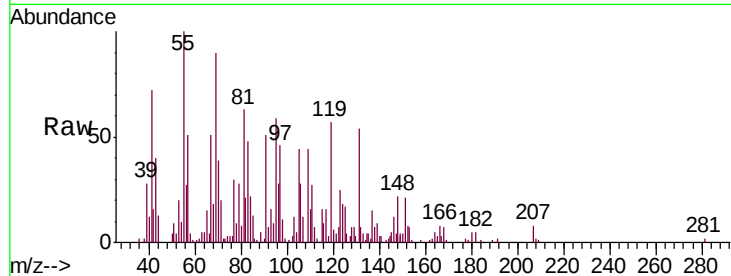
Instrument :

MSVOA_W

ClientSampleId :

ETK82RE

Tgt Ion:	180	Resp:	718
Ion	Ratio	Lower	Upper
180	100		
182	101.7	76.2	114.2
184	6.0	24.3	36.5#
145	141.8	21.9	32.9#



#68

1,2,4-trichlorobenzene

Concen: 1.369 ug/L

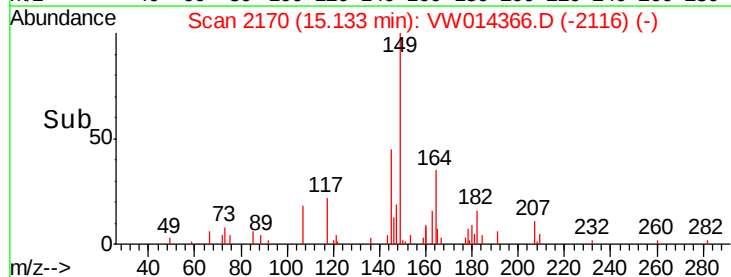
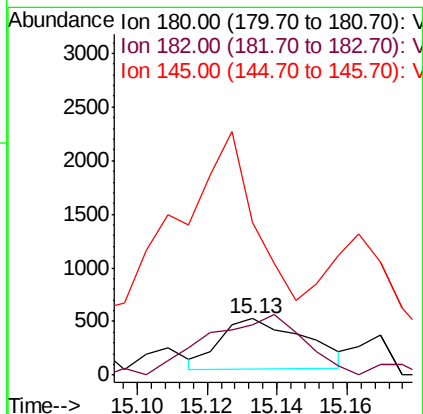
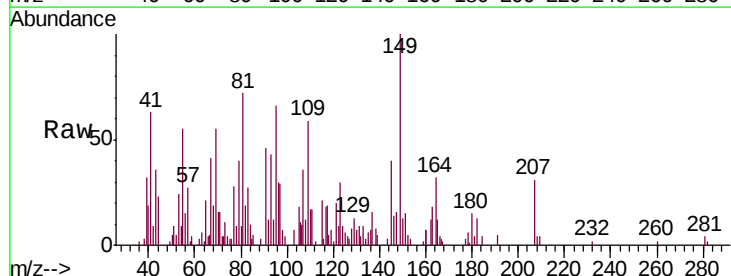
RT: 15.13 min Scan# 2170

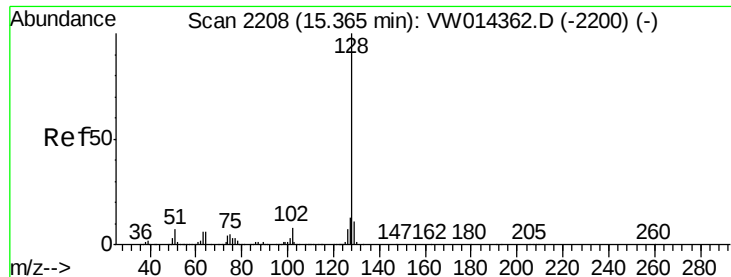
Delta R.T. -0.00 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Tgt Ion:	180	Resp:	782
Ion	Ratio	Lower	Upper
180	100		
182	137.6	75.8	113.8#
145	590.7	22.4	33.6#





#69

Naphthalene

Concen: 1.033 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

Instrument :

MSVOA_W

ClientSampleId :

ETK82RE

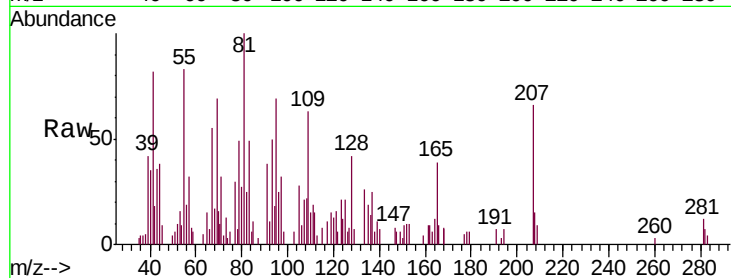
Tgt Ion:128 Resp: 1109

Ion Ratio Lower Upper

128 100

129 16.9 8.8 13.2#

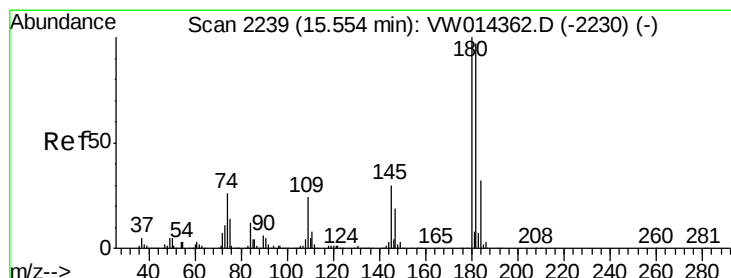
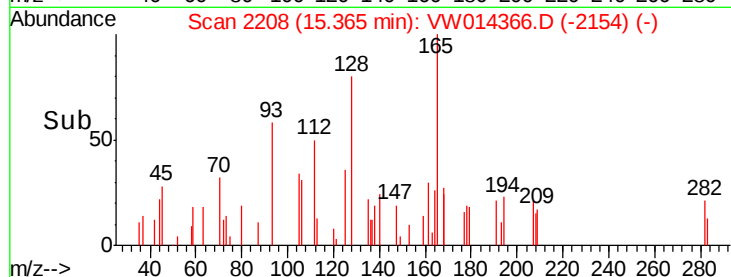
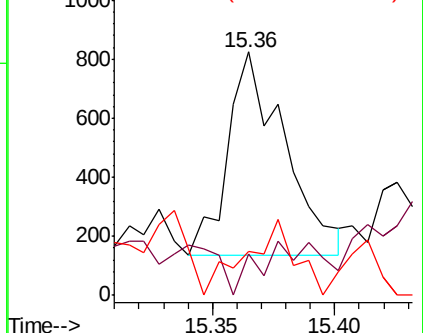
127 31.9 10.4 15.6#



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



#70

1,2,3-Trichlorobenzene

Concen: 0.717 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014366.D

Acq: 16 Dec 2019 13:59

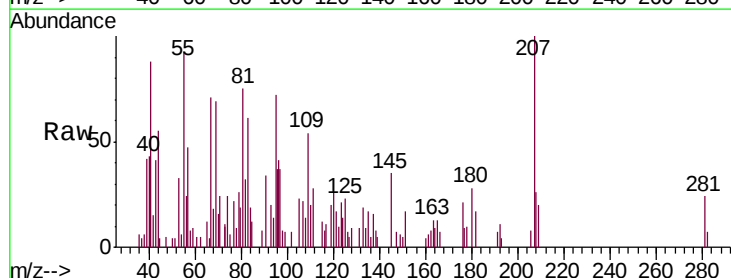
Tgt Ion:180 Resp: 384

Ion Ratio Lower Upper

180 100

182 92.2 75.8 113.6

145 124.2 24.0 36.0#



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

