

Data File : VW004660.D
Acq On : 14 Aug 2018 10:12
Operator : SY/AP
Sample : VSTD00590
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00591

Quant Time: Aug 14 11:11:50 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM081418S.M
Quant Title : VOC Analysis
QLast Update : Tue Aug 14 11:11:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	957245	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	957296	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	464030	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	79868	6.71	ug/L	0.00
7) Chloroethane-d5	2.90	69	60448	6.03	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	143214	5.92	ug/L	0.00
20) 2-Butanone-d5	7.09	46	46600	8.88	ug/L	0.00
24) Chloroform-d	7.65	84	133919	5.17	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	71090	4.92	ug/L	0.00
29) Benzene-d6	8.28	84	265500	5.21	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.28	67	83316	5.01	ug/L	0.00
37) Toluene-d8	10.33	98	235008	5.23	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	33541	4.90	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	30658	7.57	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.70	84	83728	4.64	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	92408	5.30	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	49196	4.943 ug/L	97
3) Chloromethane	2.21	50	63802	4.853 ug/L	99
5) Vinyl chloride	2.37	62	100006	5.830 ug/L	98
6) Bromomethane	2.79	94	55290	5.573 ug/L	96
8) Chloroethane	2.93	64	54177	5.264 ug/L	99
9) Trichlorofluoromethane	3.26	101	46699	5.968 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	69073	5.084 ug/L	95
12) 1,1-Dichloroethene	4.04	96	70915	5.343 ug/L	91
13) Acetone	4.14	43	43936	9.660 ug/L	99
14) Carbon disulfide	4.39	76	243377	5.978 ug/L	96
15) Methyl Acetate	4.68	43	44072	4.754 ug/L	98
16) Methylene chloride	4.92	84	105650	5.557 ug/L	97
17) Methyl tert-butyl Ether	5.43	73	87887	4.892 ug/L	# 89
18) trans-1,2-Dichloroethene	5.42	96	73003	5.378 ug/L	97
19) 1,1-Dichloroethane	6.22	63	128668	4.995 ug/L	98
21) 2-Butanone	7.19	43	54617	8.773 ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	72846	4.917 ug/L	94
23) Bromochloromethane	7.52	128	36707	5.177 ug/L	97
25) Chloroform	7.68	83	129386	4.921 ug/L	99
27) 1,2-Dichloroethane	8.40	62	86381	4.891 ug/L	97
30) Cyclohexane	7.96	56	104937	4.635 ug/L	99
31) 1,1,1-Trichloroethane	7.88	97	103271	5.077 ug/L	100
32) Carbon tetrachloride	8.07	117	96622	4.929 ug/L	99
34) Benzene	8.33	78	291517	4.939 ug/L	100
35) Trichloroethene	9.10	95	73375	4.942 ug/L	98
36) Methylcyclohexane	9.34	83	121826	4.675 ug/L	96
40) 1,2-Dichloropropane	9.37	63	74967	4.796 ug/L	99
41) Bromodichloromethane	9.65	83	87426	4.656 ug/L	97
42) cis-1,3-Dichloropropene	10.08	75	94500	4.419 ug/L	100
43) 4-Methyl-2-pentanone	10.22	43	95327	8.133 ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Aug 14 11:11:08 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	286955	4.831	ug/L	99
45) trans-1,3-Dichloropropene	10.61	75	87547	4.555	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	59124	4.865	ug/L	98
47) Tetrachloroethene	10.87	164	62078	5.285	ug/L	98
49) 2-Hexanone	10.98	43	71151	8.078	ug/L	97
50) Dibromochloromethane	11.13	129	62936	4.669	ug/L	100
51) 1,2-Dibromoethane	11.24	107	55263	4.744	ug/L #	99
52) Chlorobenzene	11.66	112	201970	5.028	ug/L	98
53) Ethylbenzene	11.74	91	313187	4.692	ug/L	99
54) m,p-Xylene	11.85	106	118162	4.745	ug/L	98
55) o-xylene	12.17	106	109041	4.621	ug/L	97
56) Styrene	12.19	104	184773	4.494	ug/L	98
57) Isopropylbenzene	12.47	105	295395	4.625	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.72	83	82670	4.687	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	61388	4.660	ug/L	100
62) Bromoform	12.35	173	40077	4.752	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	143287	4.963	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	157653	5.080	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	145773	5.039	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	13133	4.419	ug/L	89
67) 1,3,5-Trichlorobenzene	14.64	180	116245	5.079	ug/L	99
68) 1,2,4-trichlorobenzene	15.15	180	90943	4.911	ug/L	100
69) Naphthalene	15.38	128	169225	4.007	ug/L	99
70) 1,2,3-Trichlorobenzene	15.57	180	89167	4.945	ug/L	99

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

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```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VSTD00591

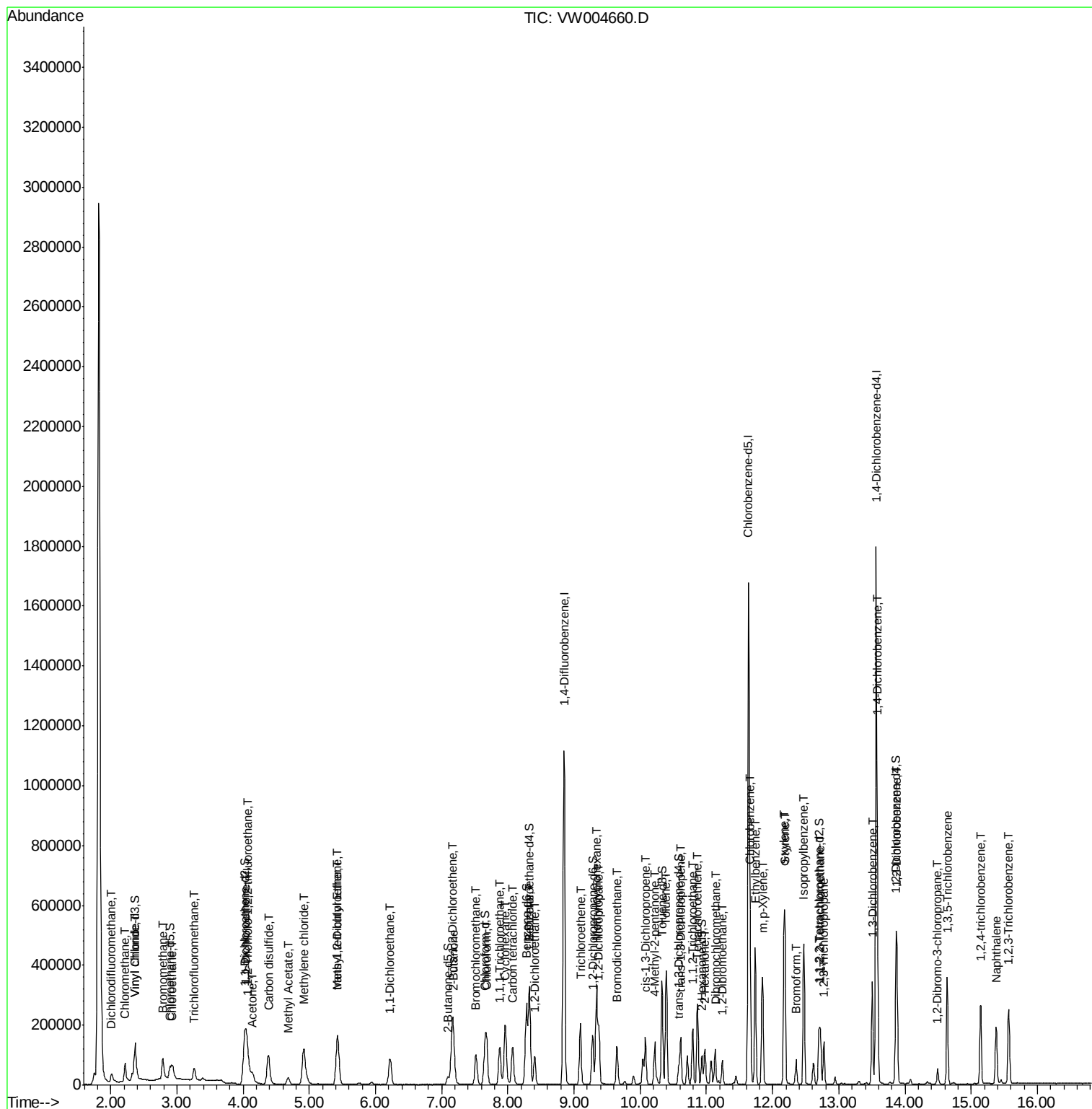
Quant Time: Aug 14 11:11:50 2018

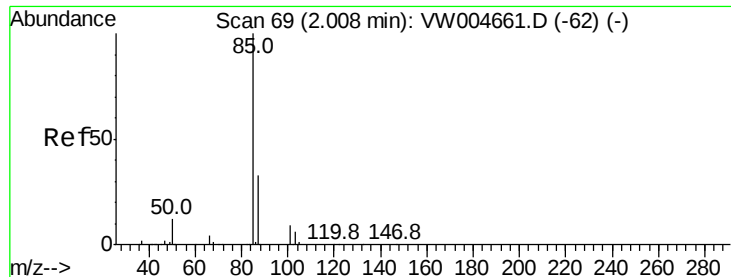
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM081418S.M

Quant Title : VOC Analysis

QLast Update : Tue Aug 14 11:11:08 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.943 ug/L

RT: 2.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

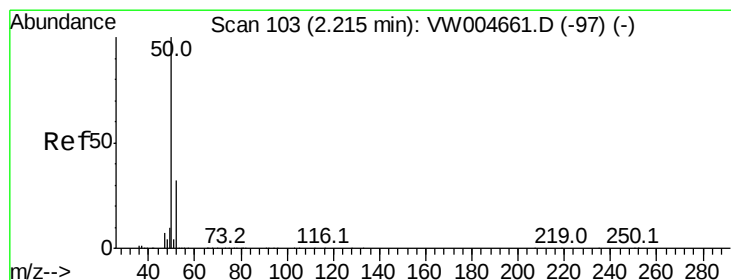
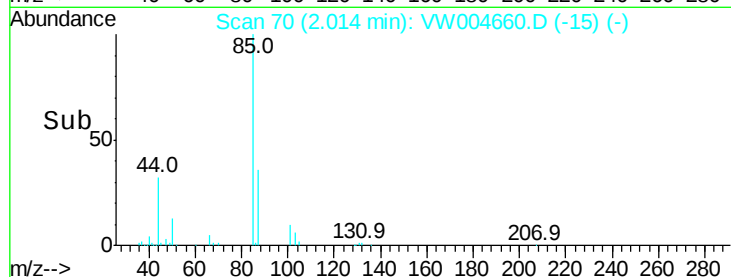
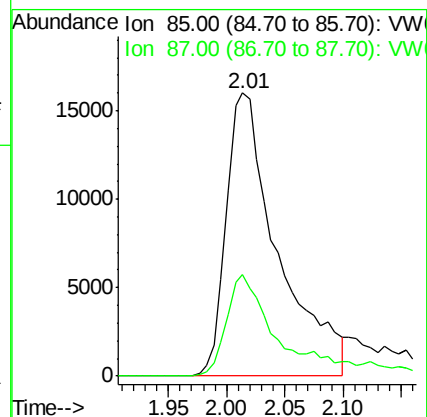
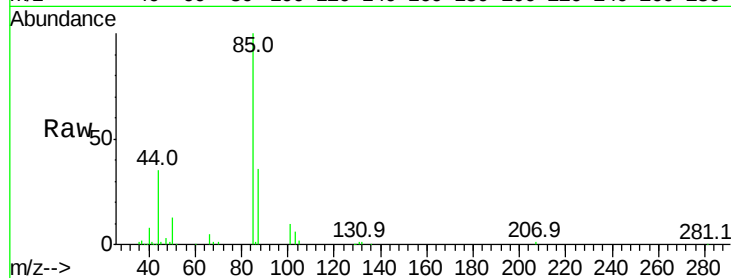
VSTD00591

Tgt Ion: 85 Resp: 49196

Ion Ratio Lower Upper

85 100

87 30.0 19.9 37.0



#3

Chloromethane

Concen: 4.853 ug/L

RT: 2.21 min Scan# 103

Delta R.T. -0.00 min

Lab File: VW004660.D

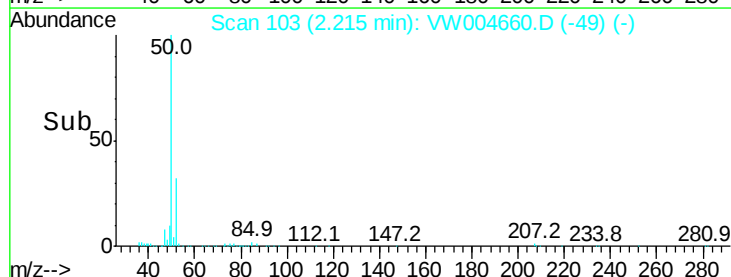
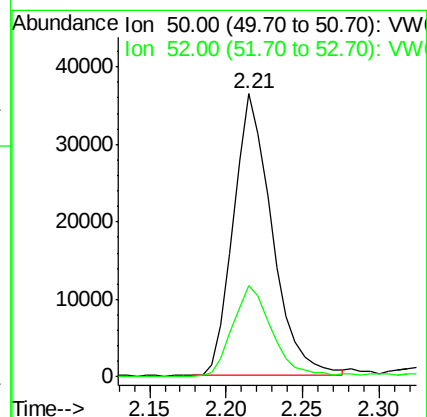
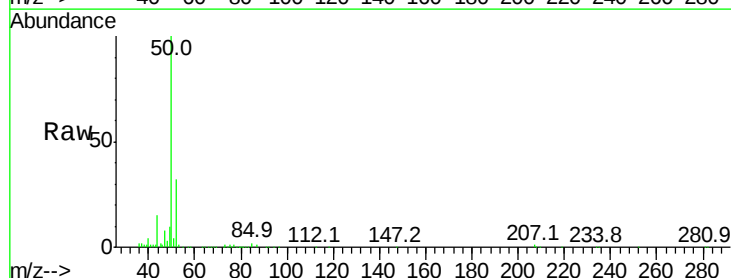
Acq: 14 Aug 2018 10:12

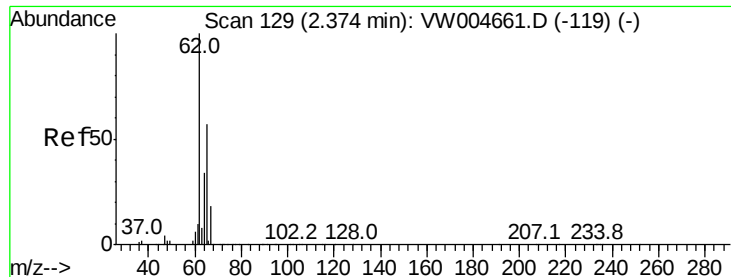
Tgt Ion: 50 Resp: 63802

Ion Ratio Lower Upper

50 100

52 32.5 22.4 41.6





#5

Vinyl chloride

Concen: 5.830 ug/L

RT: 2.37 min Scan# 129

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

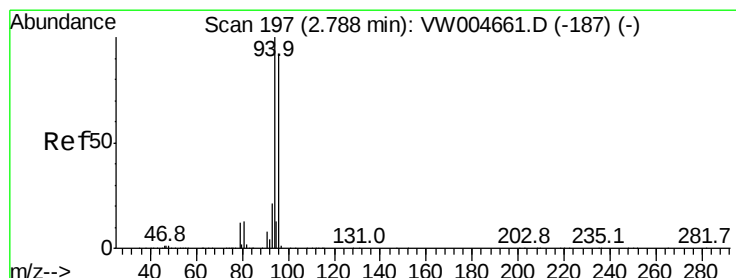
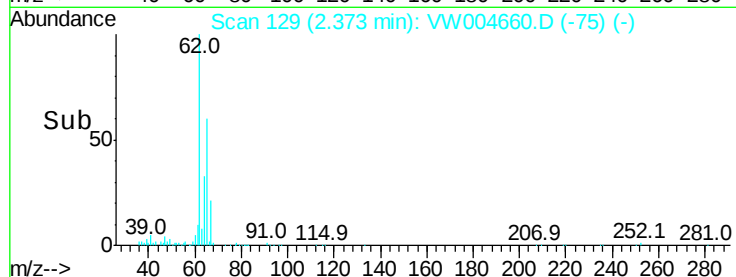
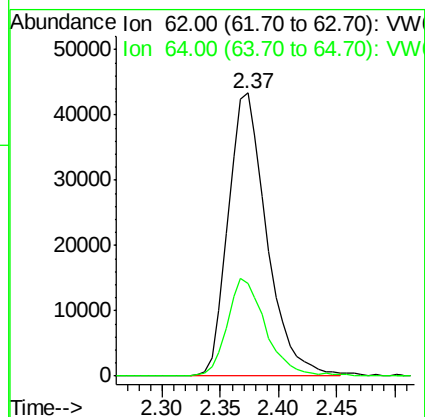
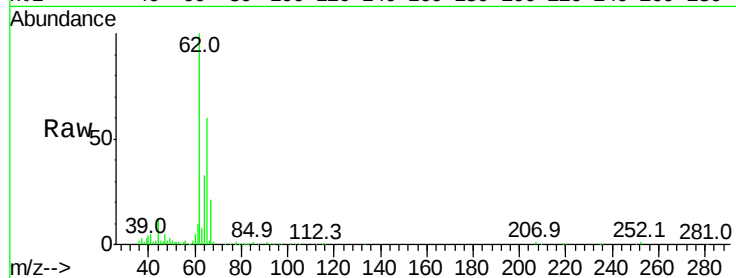
VSTD00591

Tgt Ion: 62 Resp: 100006

Ion Ratio Lower Upper

62 100

64 32.7 23.7 43.9



#6

Bromomethane

Concen: 5.573 ug/L

RT: 2.79 min Scan# 197

Delta R.T. -0.00 min

Lab File: VW004660.D

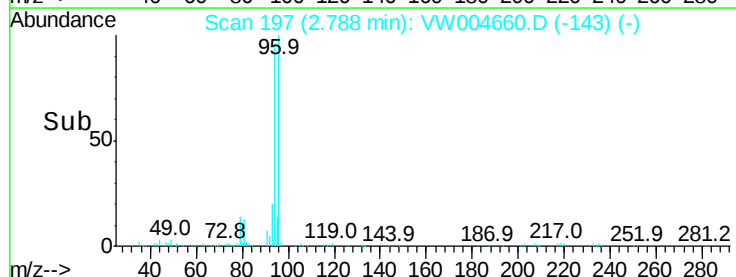
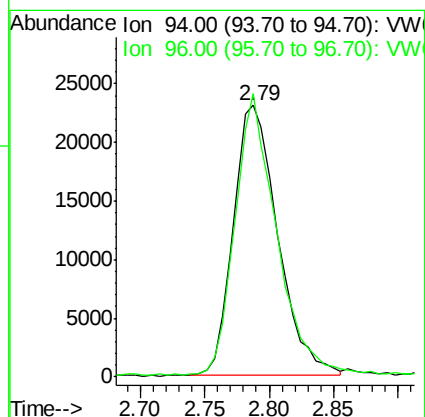
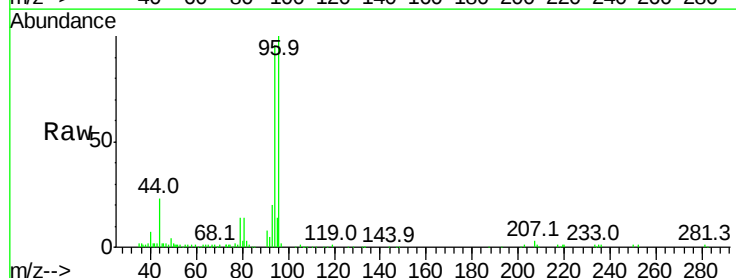
Acq: 14 Aug 2018 10:12

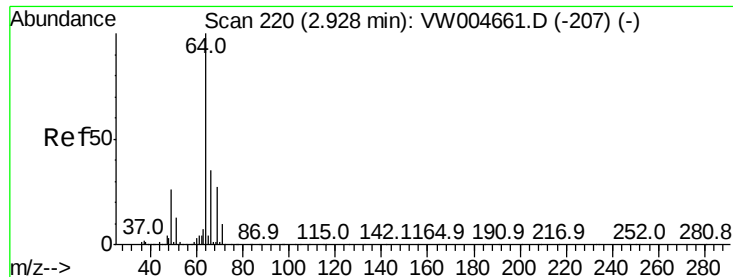
Tgt Ion: 94 Resp: 55290

Ion Ratio Lower Upper

94 100

96 97.5 9.3 177.7





#8

Chloroethane

Concen: 5.264 ug/L

RT: 2.93 min Scan# 221

Delta R.T. 0.01 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

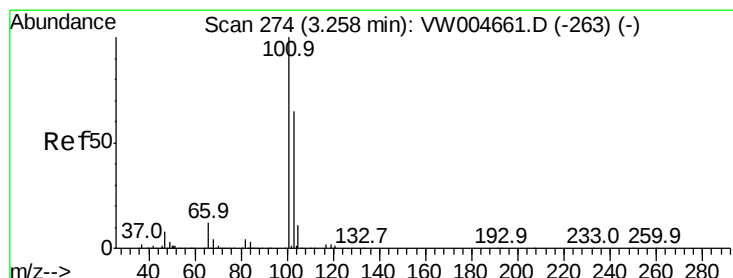
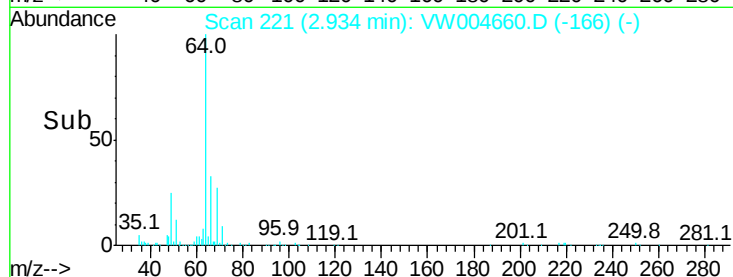
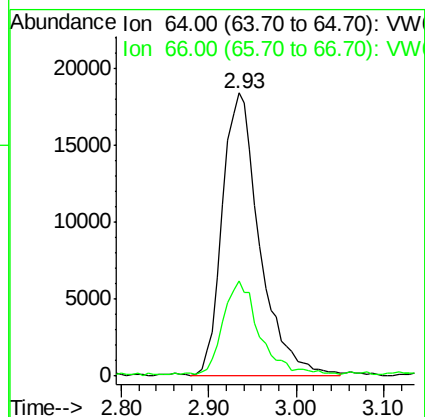
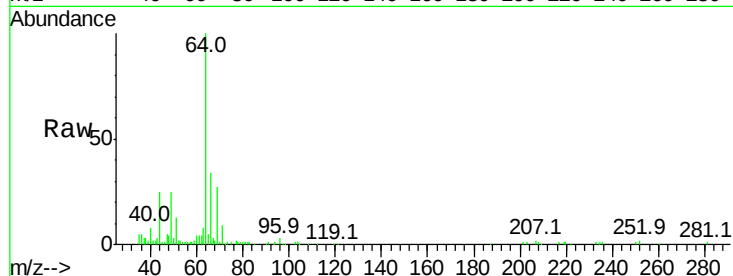
VSTD00591

Tgt Ion: 64 Resp: 54177

Ion Ratio Lower Upper

64 100

66 33.8 24.2 45.0



#9

Trichlorofluoromethane

Concen: 5.968 ug/L

RT: 3.26 min Scan# 274

Delta R.T. -0.00 min

Lab File: VW004660.D

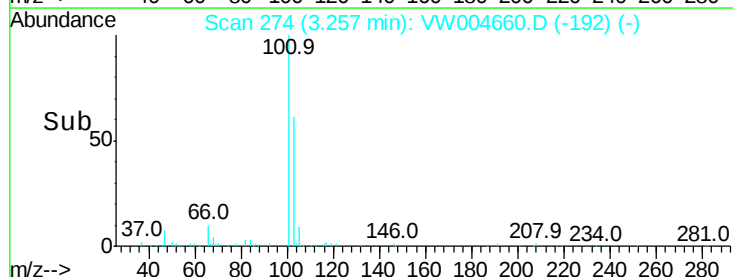
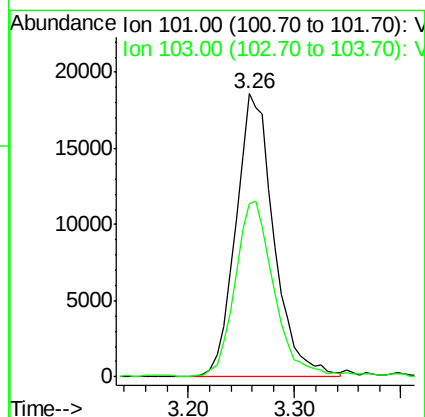
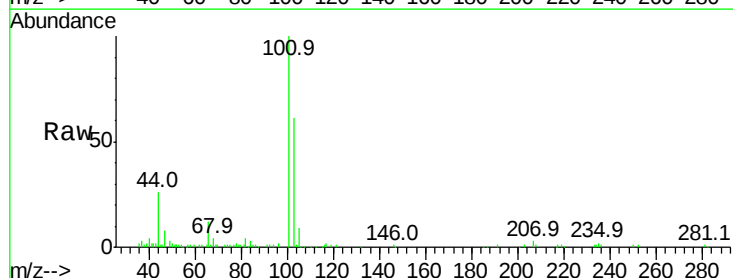
Acq: 14 Aug 2018 10:12

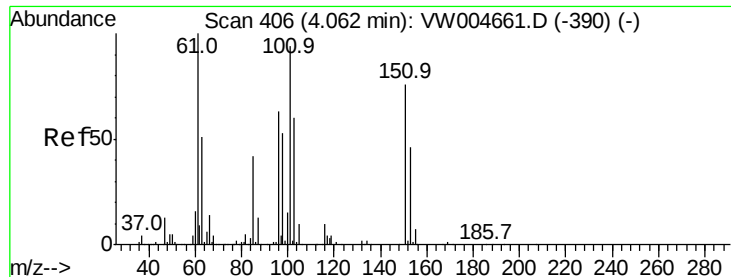
Tgt Ion: 101 Resp: 46699

Ion Ratio Lower Upper

101 100

103 63.1 45.1 83.7





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.084 ug/L

RT: 4.07 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD00591

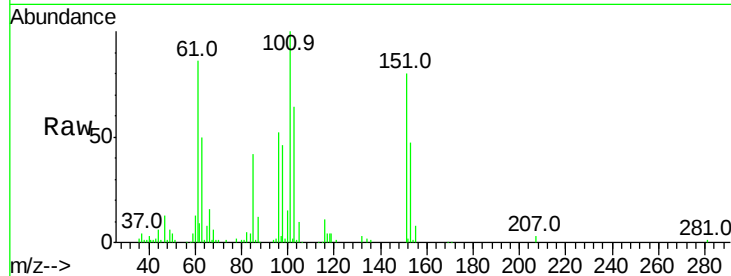
Tgt Ion:101 Resp: 69073

Ion Ratio Lower Upper

101 100

85 44.9 33.2 49.8

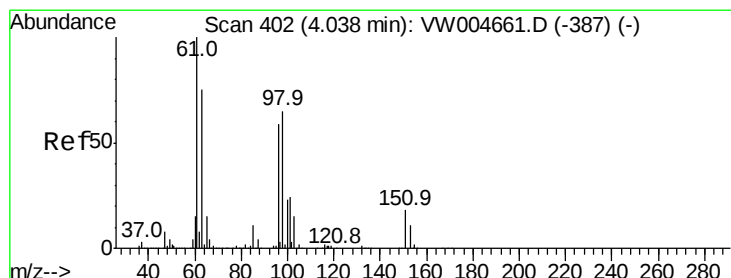
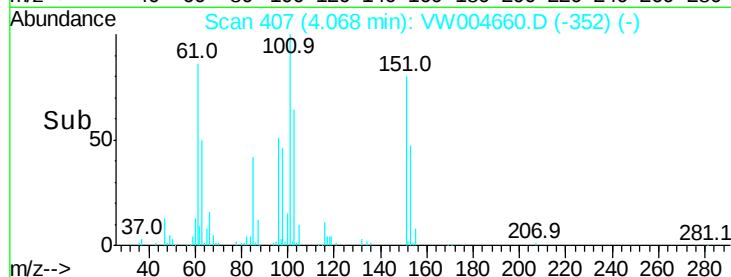
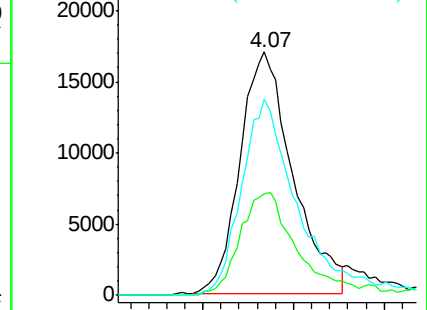
151 82.7 63.0 94.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.343 ug/L

RT: 4.04 min Scan# 403

Delta R.T. 0.01 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

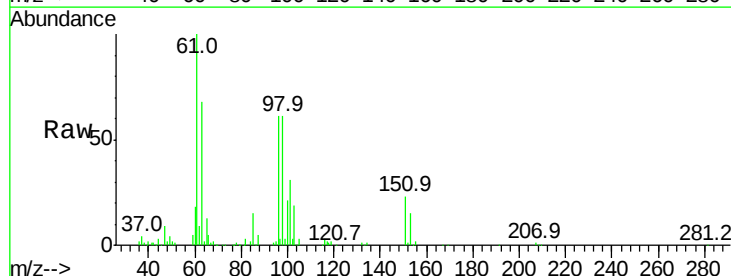
Tgt Ion: 96 Resp: 70915

Ion Ratio Lower Upper

96 100

61 163.2 118.9 220.7

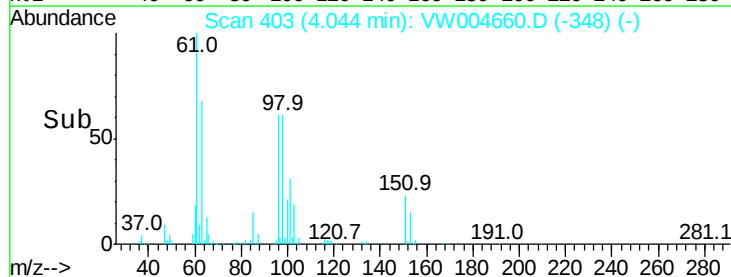
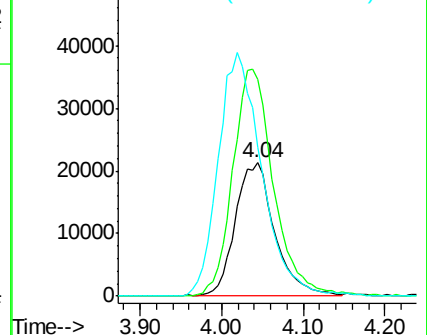
63 111.4 88.9 165.1

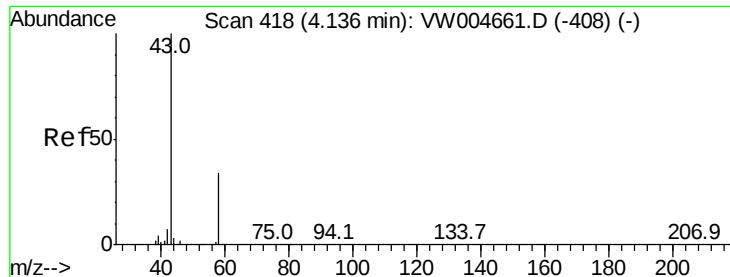


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 9.660 ug/L

RT: 4.14 min Scan# 418

Delta R.T. -0.00 min

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Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

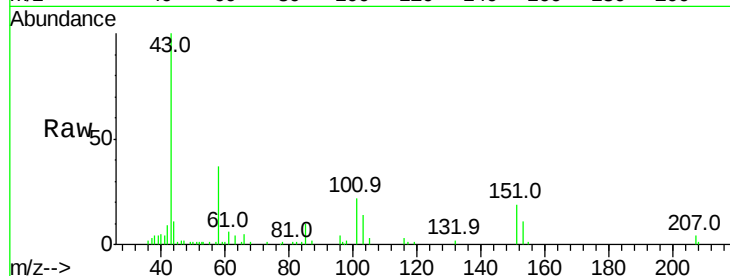
VSTD00591

Tgt Ion: 43 Resp: 43936

Ion Ratio Lower Upper

43 100

58 35.3 0.0 69.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

15000

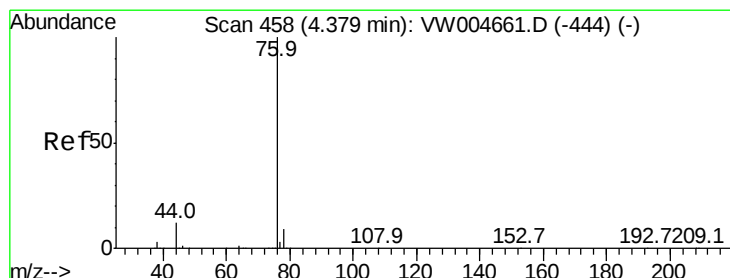
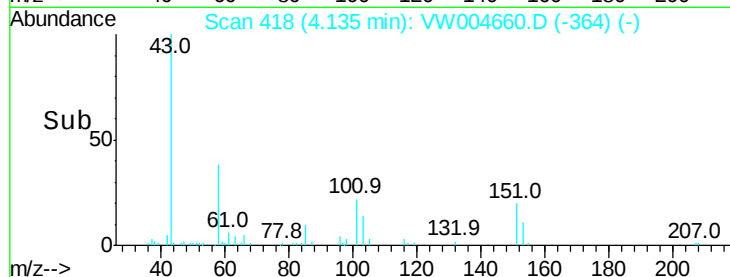
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5000

0

4.05 4.10 4.15 4.20

Time-->



#14

Carbon disulfide

Concen: 5.978 ug/L

RT: 4.39 min Scan# 459

Delta R.T. 0.01 min

Lab File: VW004660.D

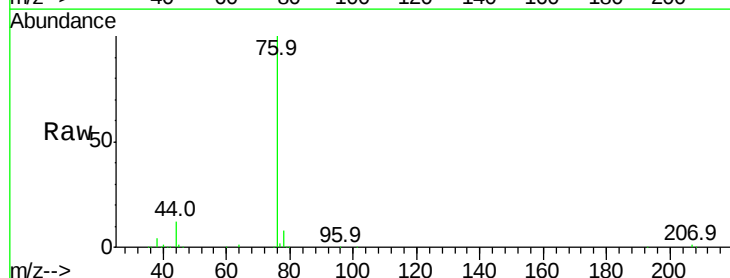
Acq: 14 Aug 2018 10:12

Tgt Ion: 76 Resp: 243377

Ion Ratio Lower Upper

76 100

78 7.7 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

80000

60000

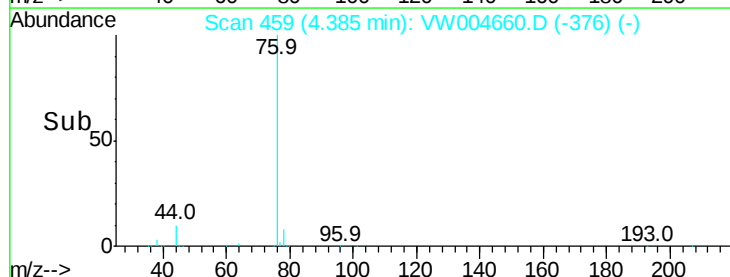
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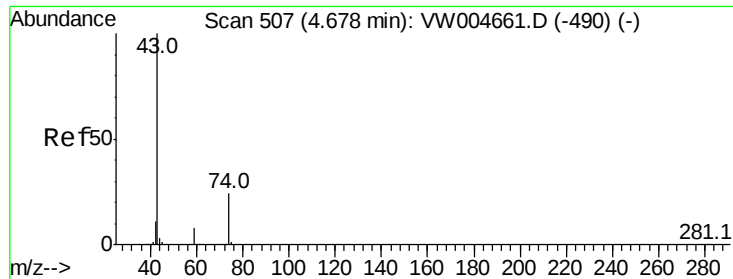
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4.30 4.40 4.50

Time-->

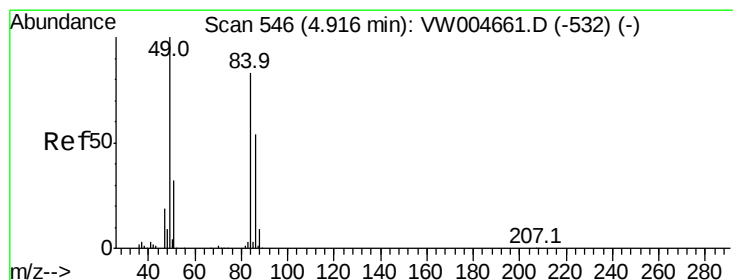
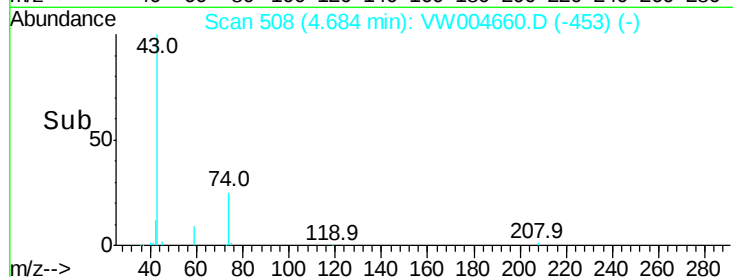
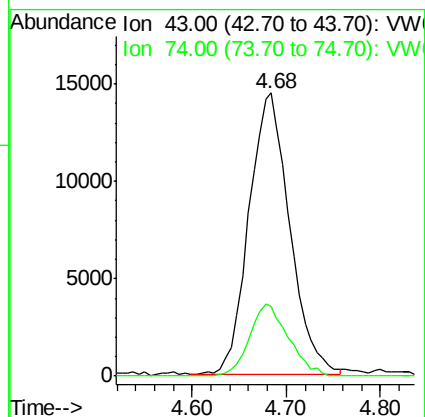
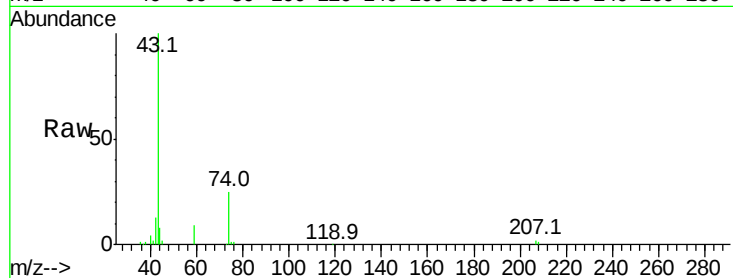




#15
Methyl Acetate
Concen: 4.754 ug/L
RT: 4.68 min Scan# 508
Delta R.T. 0.01 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

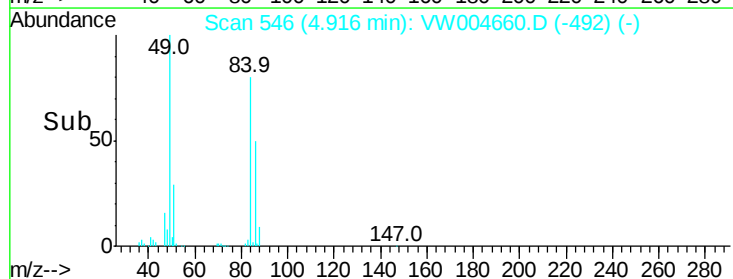
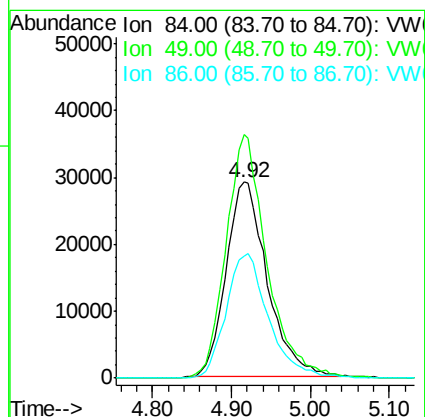
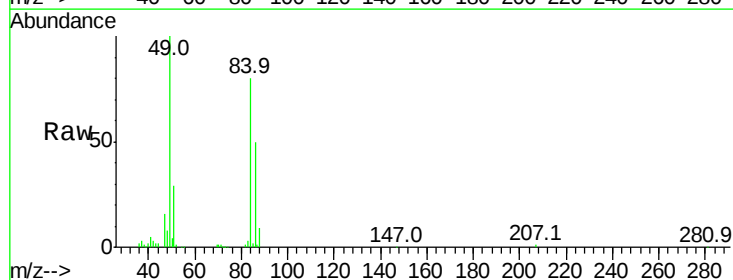
Instrument :
MSVOA_W
ClientSampleId :
VSTD00591

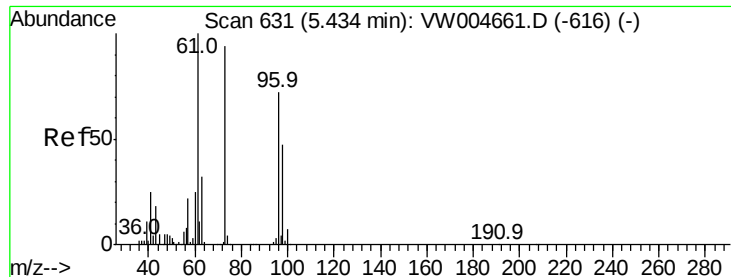
Tgt Ion: 43 Resp: 44072
Ion Ratio Lower Upper
43 100
74 24.4 18.8 28.2



#16
Methylene chloride
Concen: 5.557 ug/L
RT: 4.92 min Scan# 546
Delta R.T. -0.00 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

Tgt Ion: 84 Resp: 105650
Ion Ratio Lower Upper
84 100
49 124.4 84.9 157.7
86 62.3 45.7 84.9

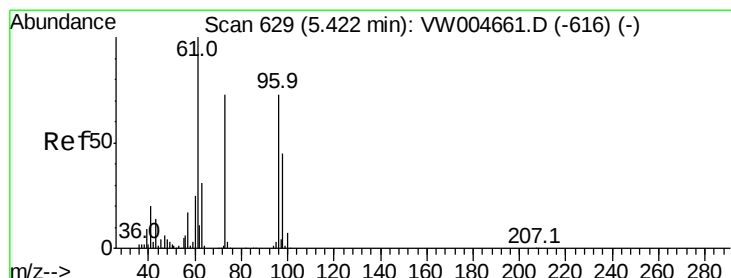
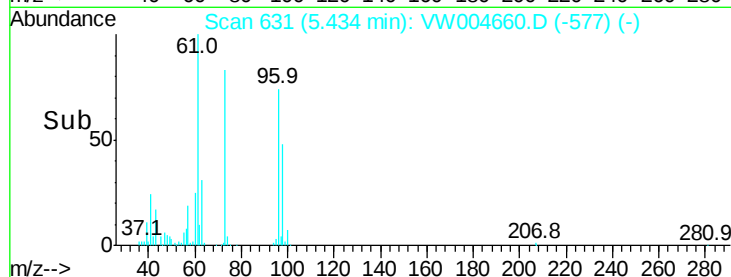
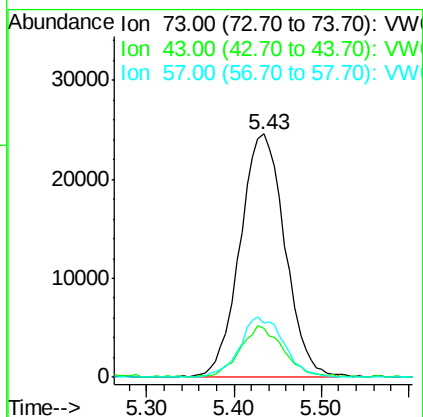
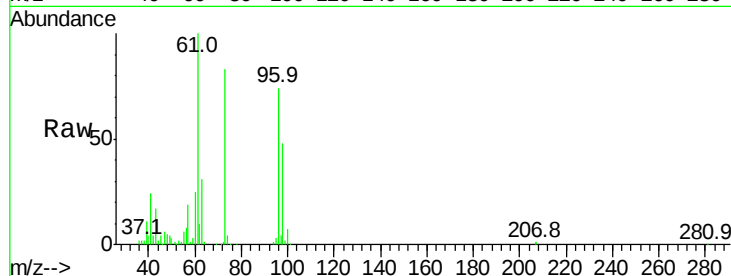




#17
Methyl tert-butyl Ether
Concen: 4.892 ug/L
RT: 5.43 min Scan# 631
Delta R.T. -0.00 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

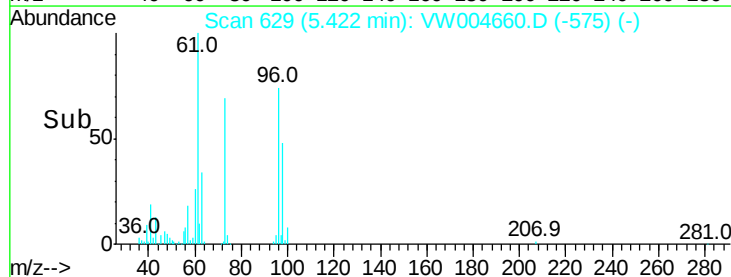
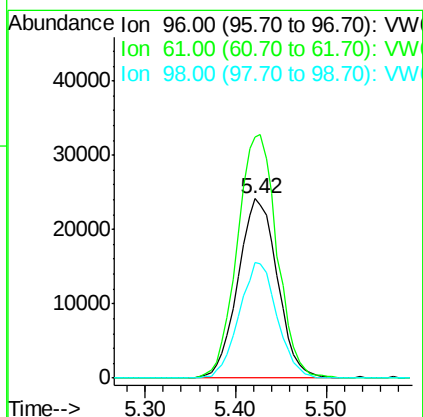
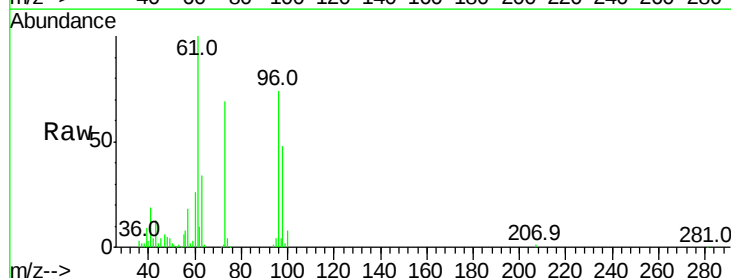
Instrument :
MSVOA_W
ClientSampleId :
VSTD00591

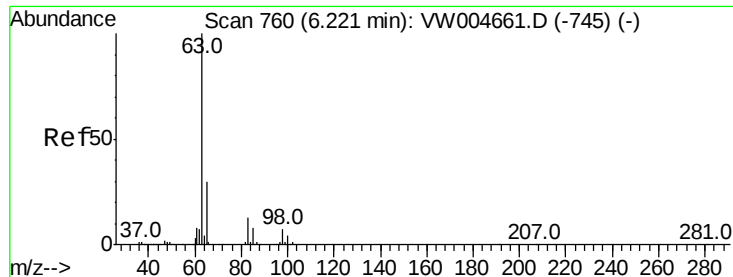
Tgt Ion: 73 Resp: 87887
Ion Ratio Lower Upper
73 100
43 19.5 15.0 22.6
57 13.9 18.6 27.8#



#18
trans-1,2-Dichloroethene
Concen: 5.378 ug/L
RT: 5.42 min Scan# 629
Delta R.T. -0.00 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

Tgt Ion: 96 Resp: 73003
Ion Ratio Lower Upper
96 100
61 134.4 96.1 178.5
98 64.8 43.3 80.5





#19

1,1-Dichloroethane

Concen: 4.995 ug/L

RT: 6.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD00591

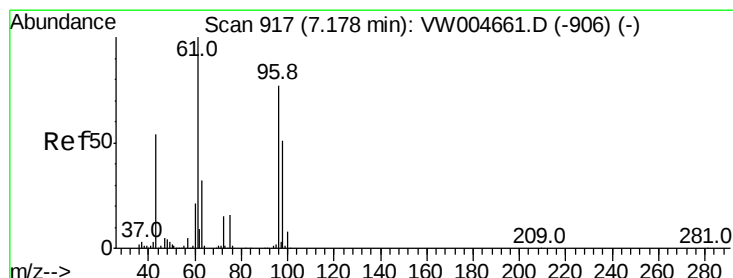
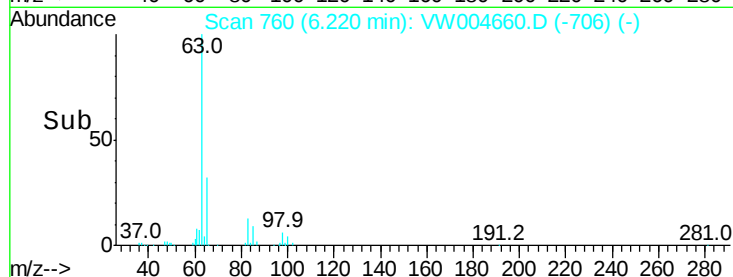
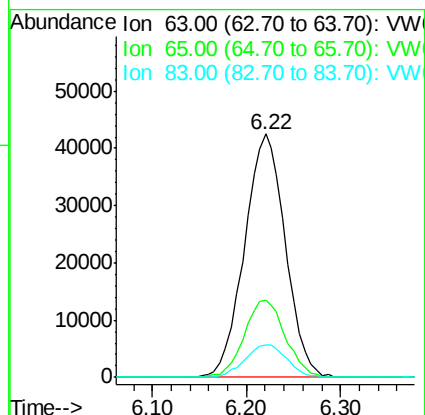
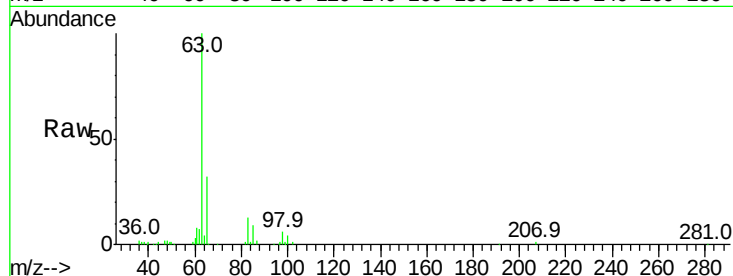
Tgt Ion: 63 Resp: 128668

Ion Ratio Lower Upper

63 100

65 31.8 21.2 39.4

83 13.2 9.2 17.0



#21

2-Butanone

Concen: 8.773 ug/L

RT: 7.19 min Scan# 919

Delta R.T. 0.01 min

Lab File: VW004660.D

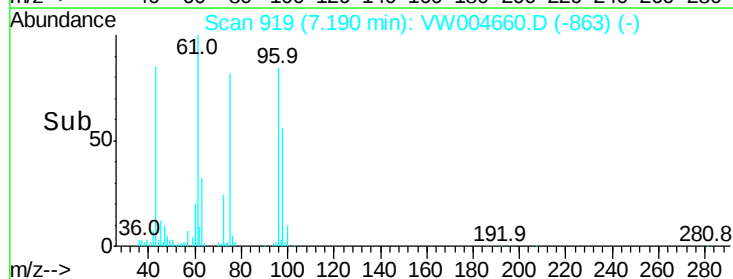
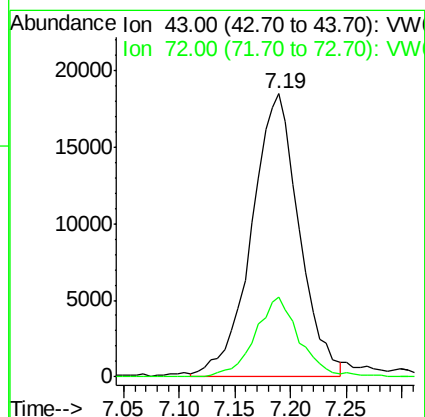
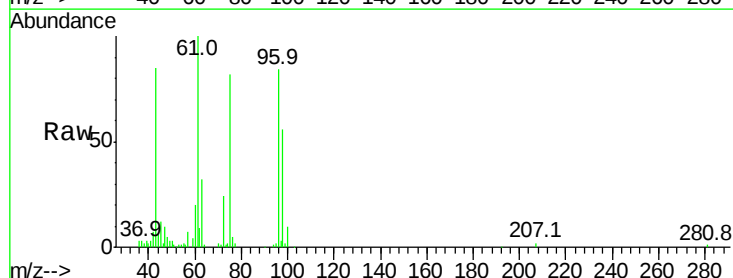
Acq: 14 Aug 2018 10:12

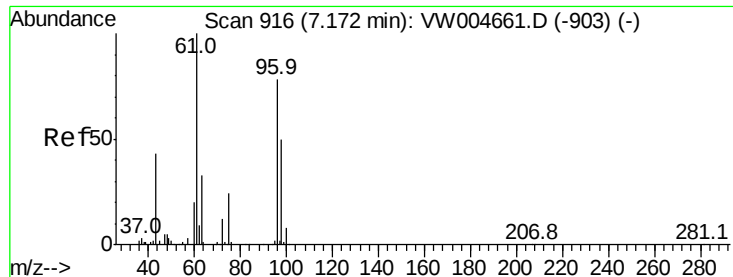
Tgt Ion: 43 Resp: 54617

Ion Ratio Lower Upper

43 100

72 26.7 14.1 42.2



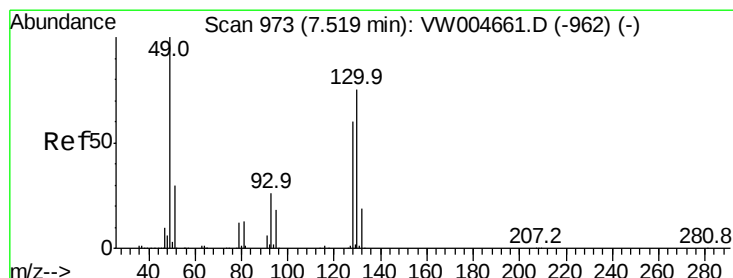
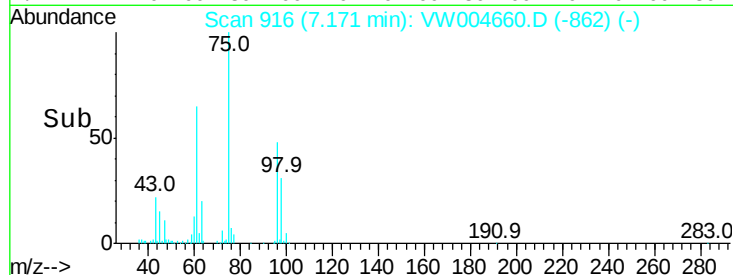
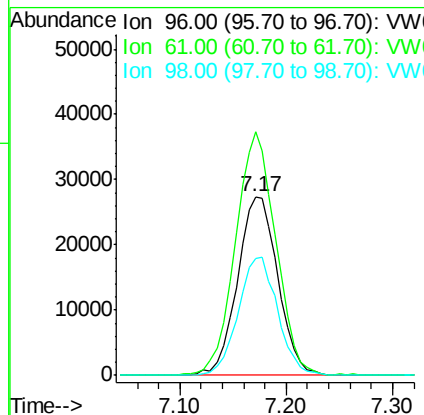
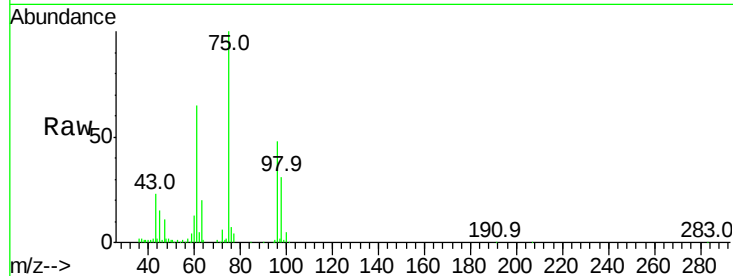


#22

cis-1,2-Dichloroethene
 Concen: 4.917 ug/L
 RT: 7.17 min Scan# 916
 Delta R.T. -0.00 min
 Lab File: VW004660.D
 Acq: 14 Aug 2018 10:12

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00591

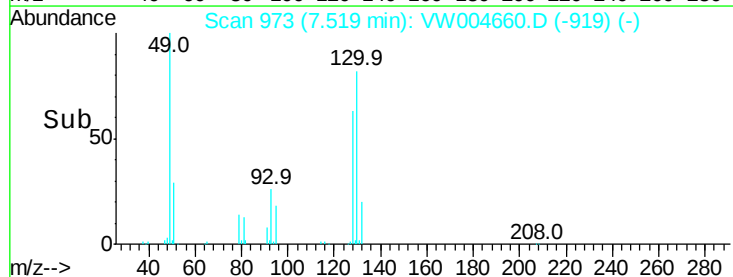
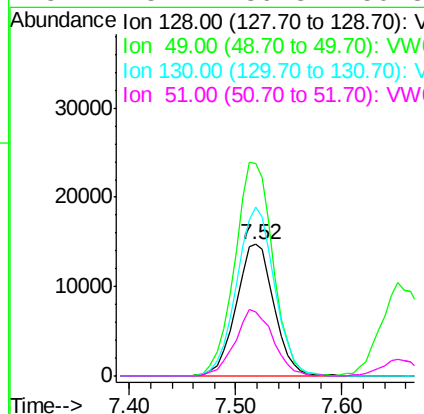
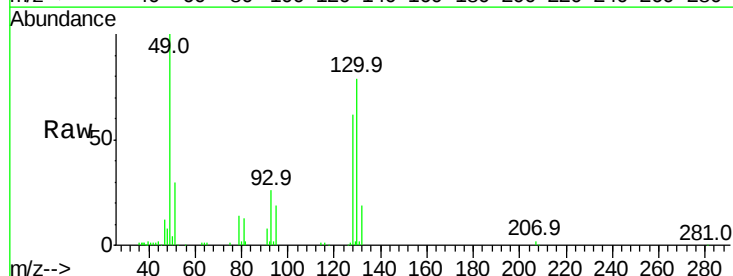
Tgt Ion: 96 Resp: 72846
 Ion Ratio Lower Upper
 96 100
 61 136.1 89.6 166.4
 98 65.6 44.5 82.7

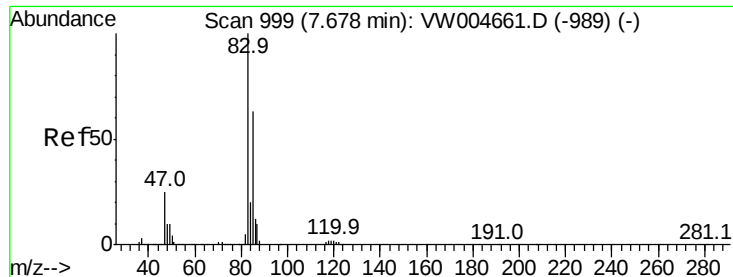


#23

Bromochloromethane
 Concen: 5.177 ug/L
 RT: 7.52 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VW004660.D
 Acq: 14 Aug 2018 10:12

Tgt Ion: 128 Resp: 36707
 Ion Ratio Lower Upper
 128 100
 49 162.3 116.0 215.4
 130 128.8 86.6 160.8
 51 48.4 39.8 59.8





#25

Chloroform

Concen: 4.921 ug/L

RT: 7.68 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

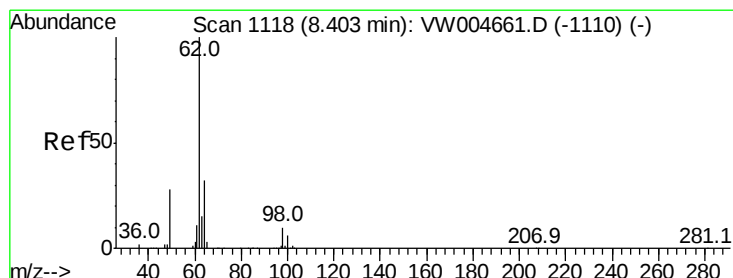
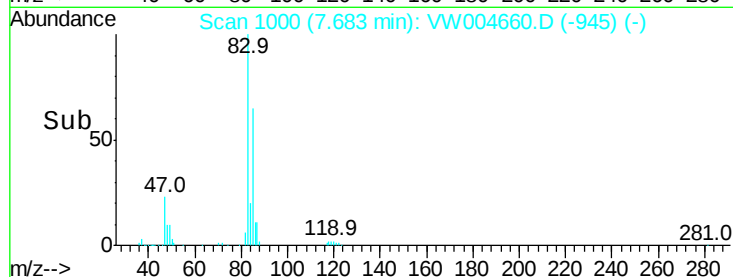
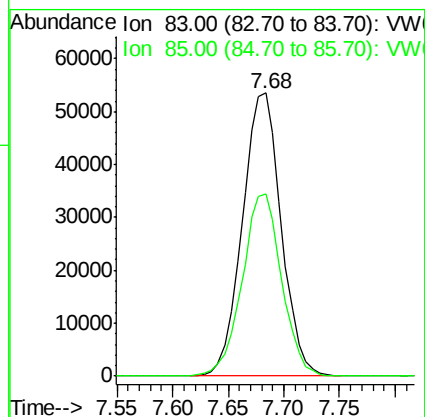
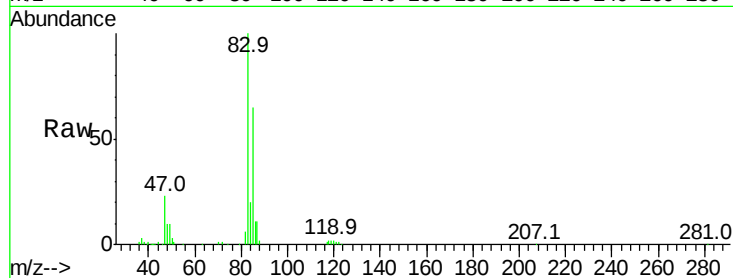
VSTD00591

Tgt Ion: 83 Resp: 129386

Ion Ratio Lower Upper

83 100

85 65.5 45.5 84.5



#27

1,2-Dichloroethane

Concen: 4.891 ug/L

RT: 8.40 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VW004660.D

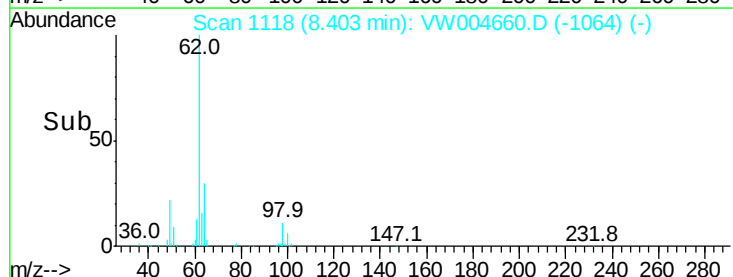
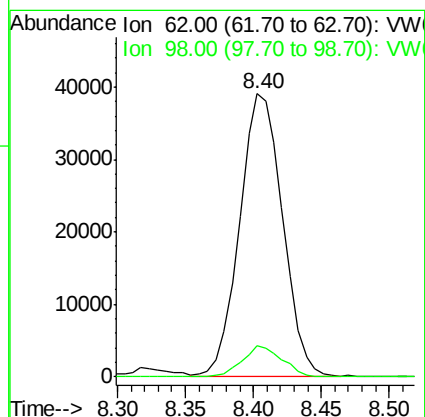
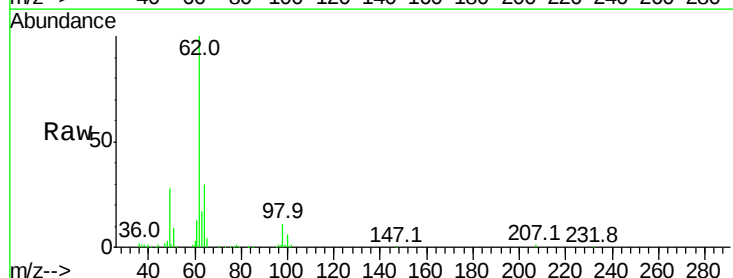
Acq: 14 Aug 2018 10:12

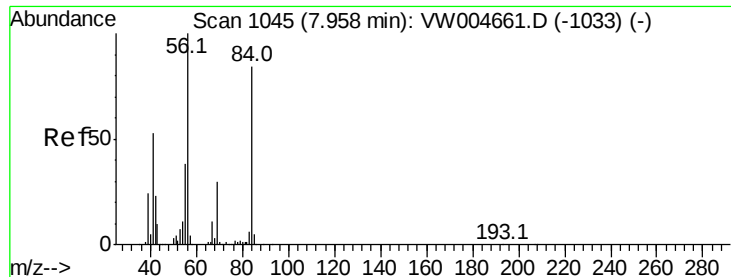
Tgt Ion: 62 Resp: 86381

Ion Ratio Lower Upper

62 100

98 10.9 7.8 11.8

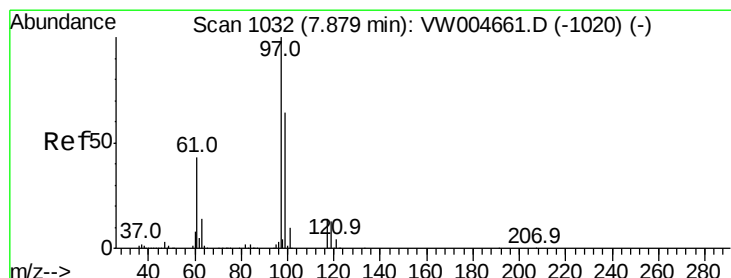
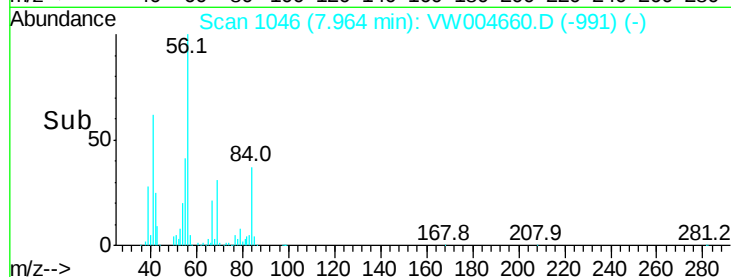
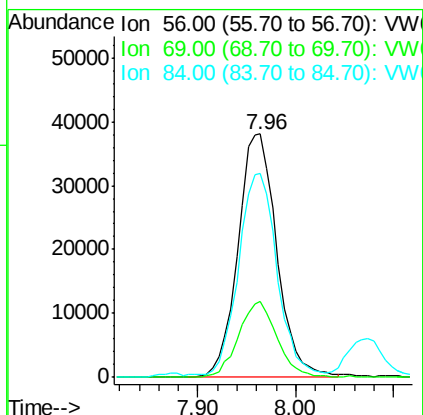
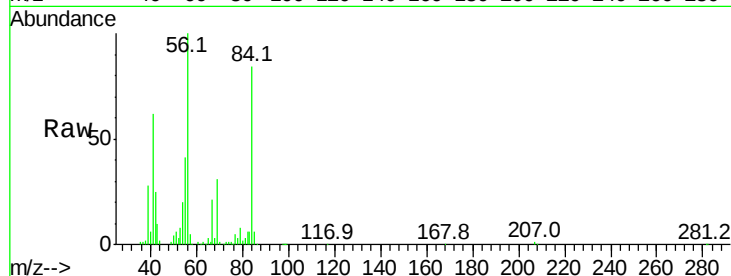




#30
Cyclohexane
Concen: 4.635 ug/L
RT: 7.96 min Scan# 1046
Delta R.T. 0.01 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

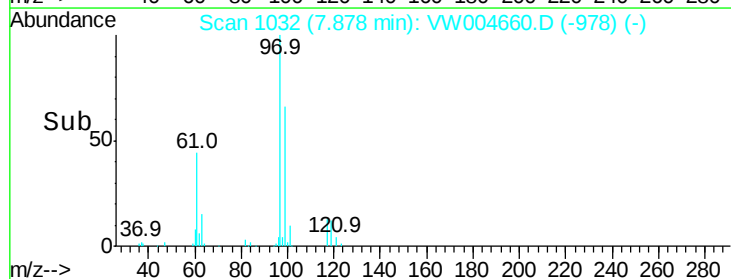
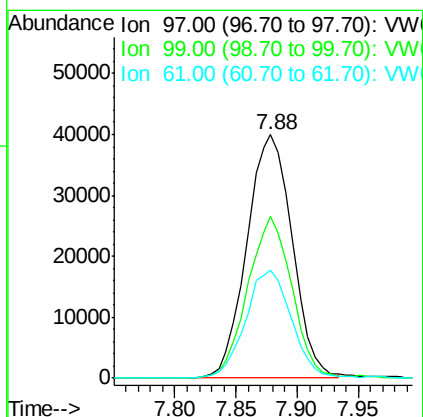
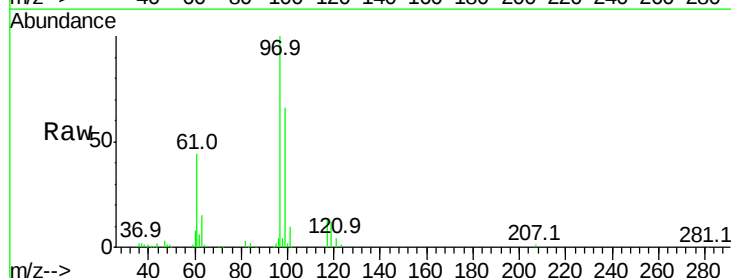
Instrument :
MSVOA_W
ClientSampleId :
VSTD00591

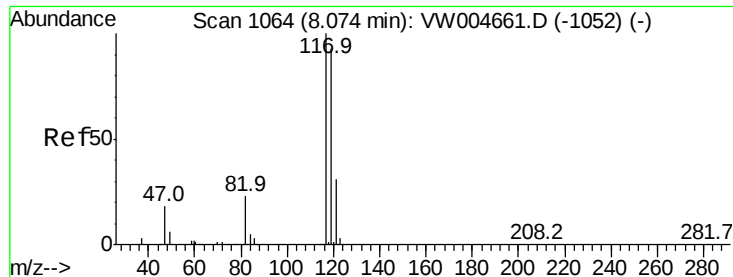
Tgt Ion: 56 Resp: 104937
Ion Ratio Lower Upper
56 100
69 30.8 23.9 35.9
84 83.9 66.4 99.6



#31
1,1,1-Trichloroethane
Concen: 5.077 ug/L
RT: 7.88 min Scan# 1032
Delta R.T. -0.00 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

Tgt Ion: 97 Resp: 103271
Ion Ratio Lower Upper
97 100
99 64.3 51.3 76.9
61 44.8 35.6 53.4





#32

Carbon tetrachloride

Concen: 4.929 ug/L

RT: 8.07 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

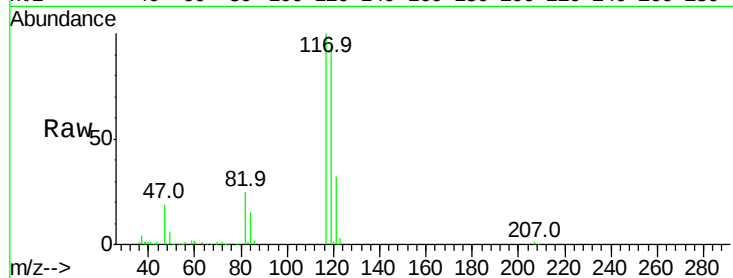
VSTD00591

Tgt Ion:117 Resp: 96622

Ion Ratio Lower Upper

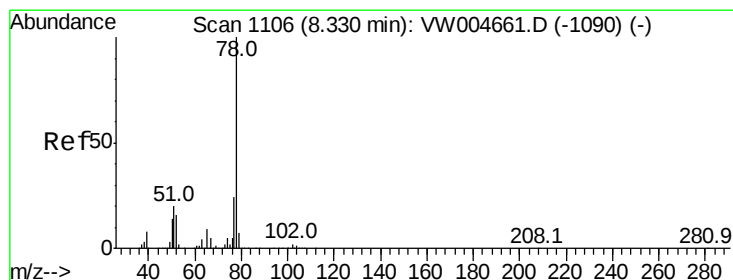
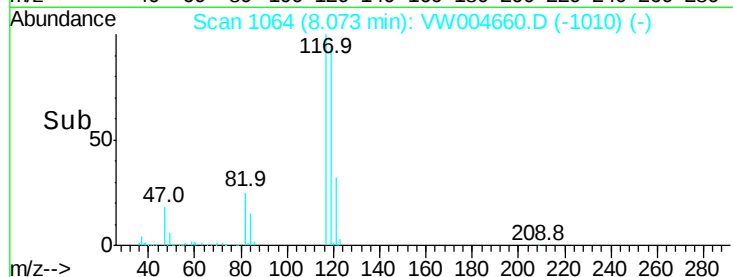
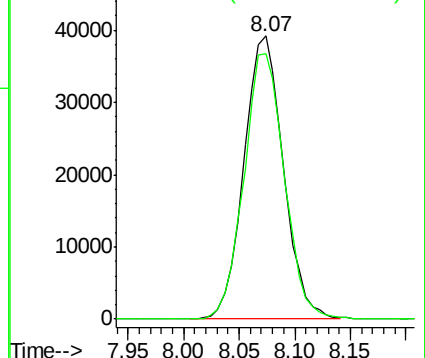
117 100

119 96.4 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 4.939 ug/L

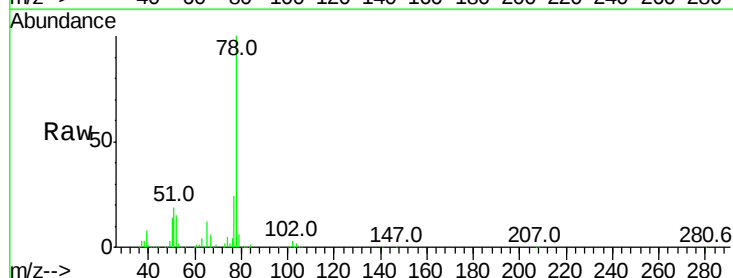
RT: 8.33 min Scan# 1106

Delta R.T. -0.00 min

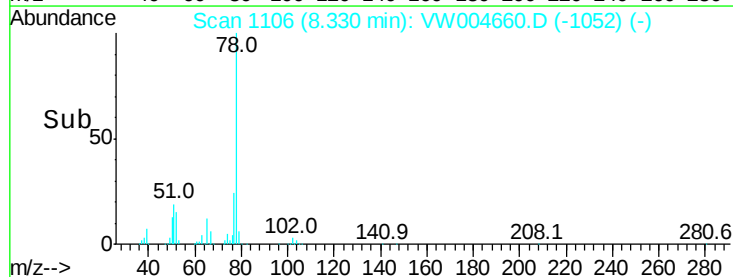
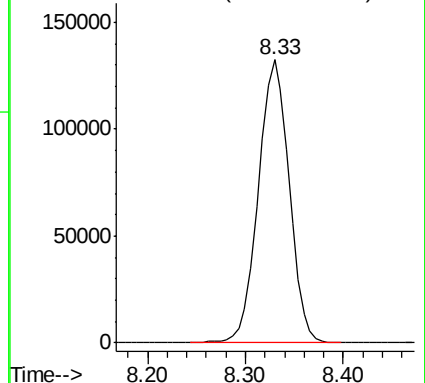
Lab File: VW004660.D

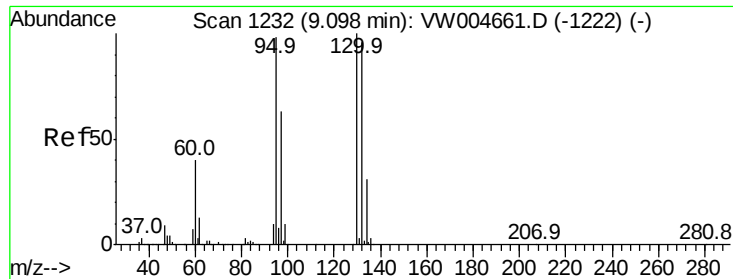
Acq: 14 Aug 2018 10:12

Tgt Ion: 78 Resp: 291517



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 4.942 ug/L

RT: 9.10 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD00591

Tgt Ion: 95 Resp: 73375

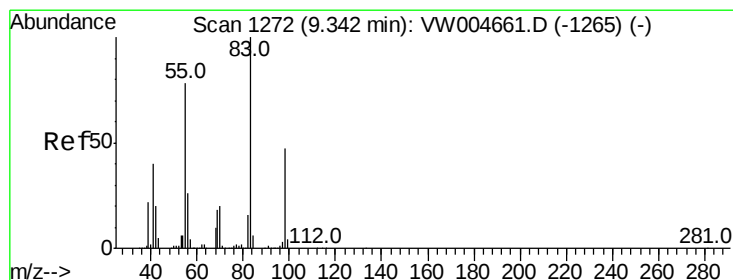
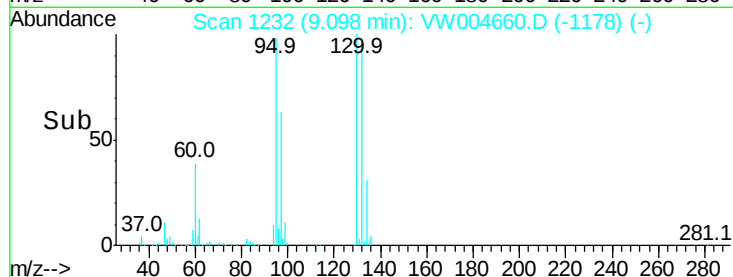
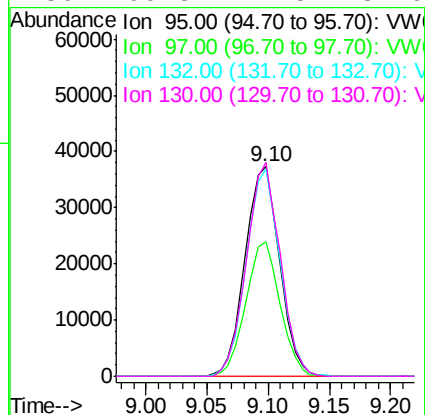
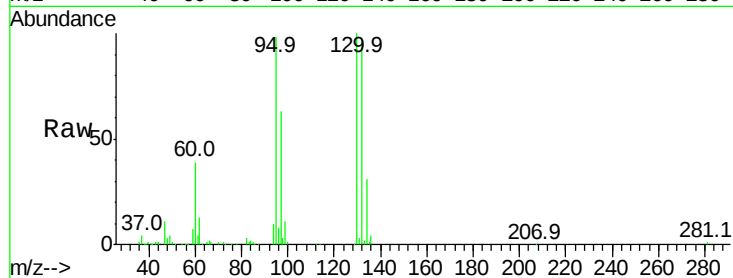
Ion Ratio Lower Upper

95 100

97 63.6 45.1 83.9

132 97.5 68.8 127.8

130 99.3 71.5 132.9



#36

Methylcyclohexane

Concen: 4.675 ug/L

RT: 9.34 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

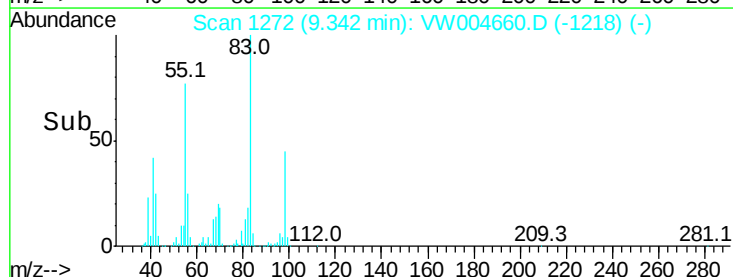
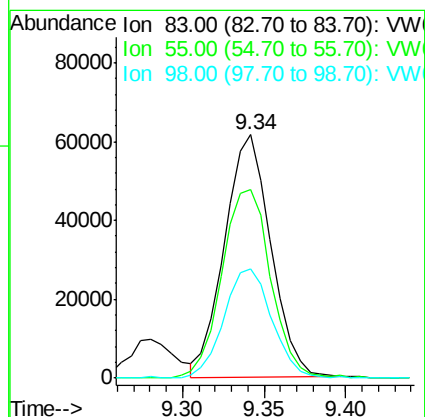
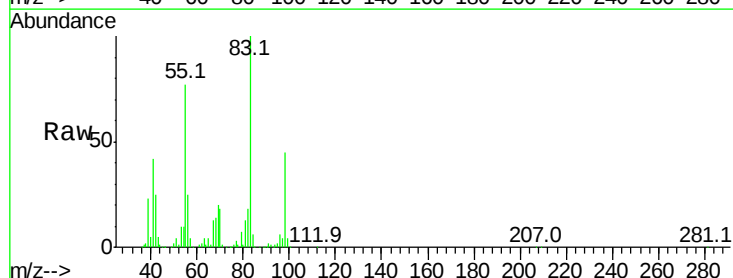
Tgt Ion: 83 Resp: 121826

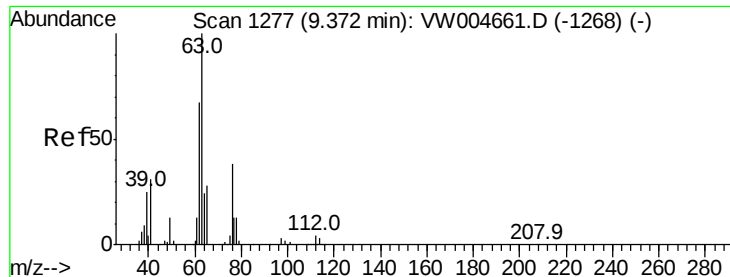
Ion Ratio Lower Upper

83 100

55 82.3 61.4 92.2

98 46.1 36.2 54.4





#40

1,2-Dichloropropane

Concen: 4.796 ug/L

RT: 9.37 min Scan# 1277

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

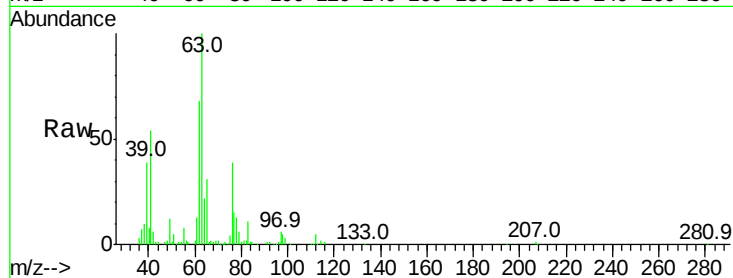
VSTD00591

Tgt Ion: 63 Resp: 74967

Ion Ratio Lower Upper

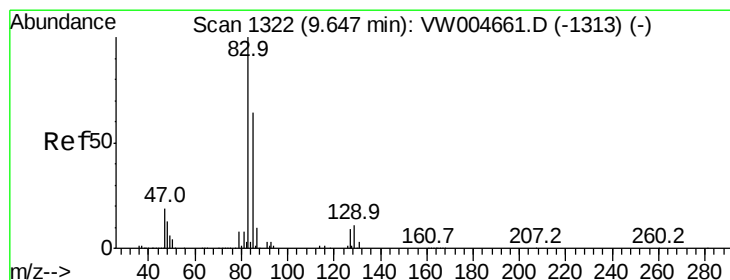
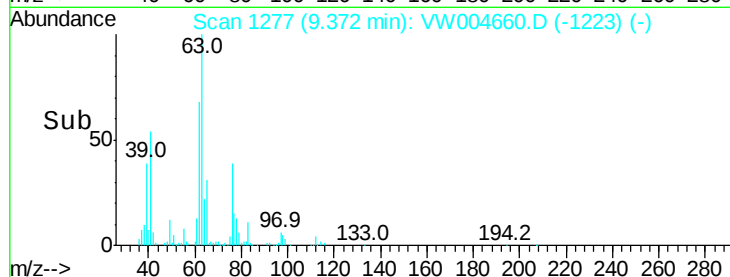
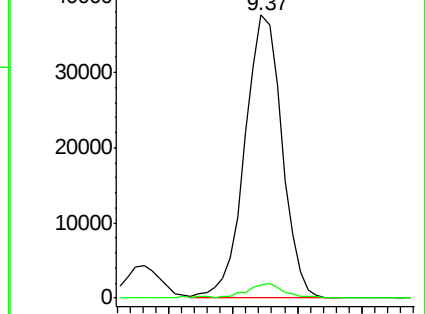
63 100

112 4.6 3.4 5.0



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 4.656 ug/L

RT: 9.65 min Scan# 1322

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

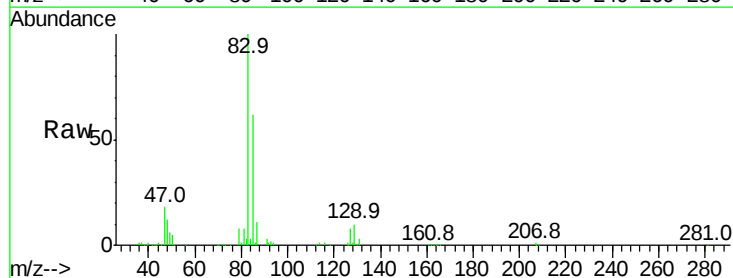
Tgt Ion: 83 Resp: 87426

Ion Ratio Lower Upper

83 100

85 61.8 44.9 83.5

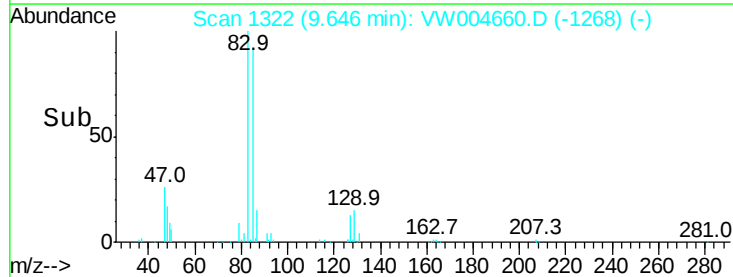
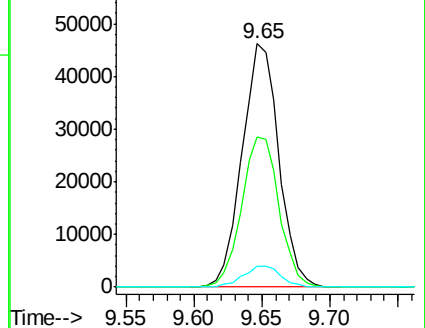
127 8.4 7.0 10.6

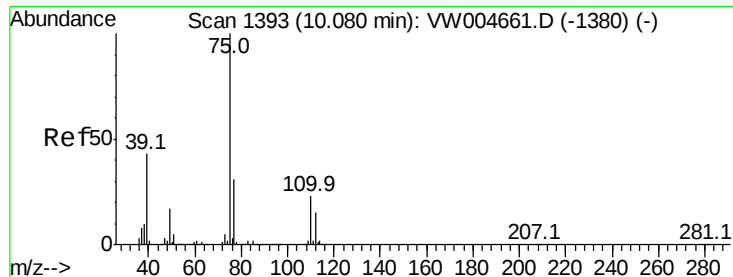


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 4.419 ug/L

RT: 10.08 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

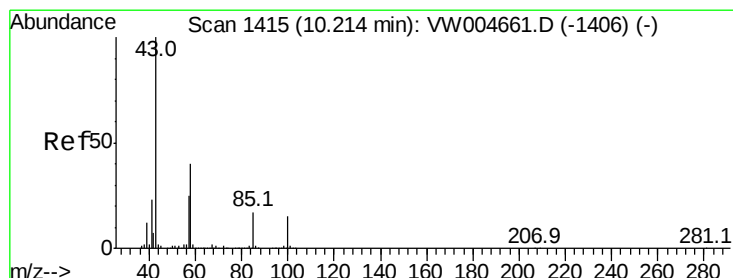
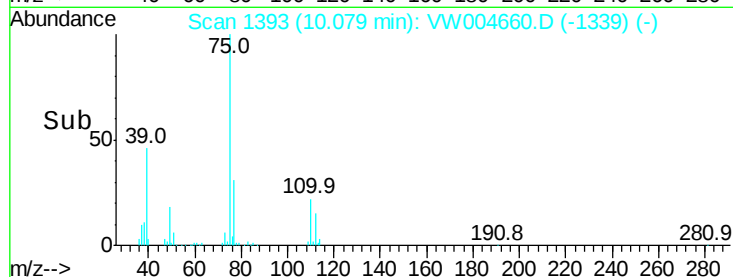
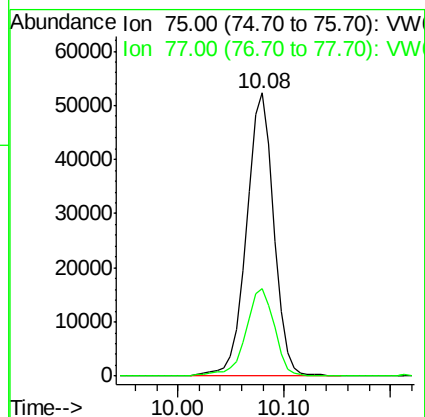
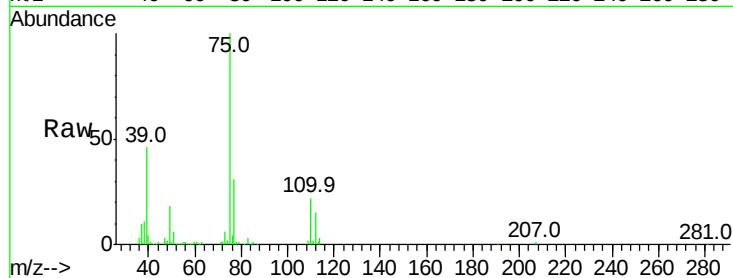
VSTD00591

Tgt Ion: 75 Resp: 94500

Ion Ratio Lower Upper

75 100

77 30.8 21.7 40.3



#43

4-Methyl-2-pentanone

Concen: 8.133 ug/L

RT: 10.22 min Scan# 1416

Delta R.T. 0.01 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

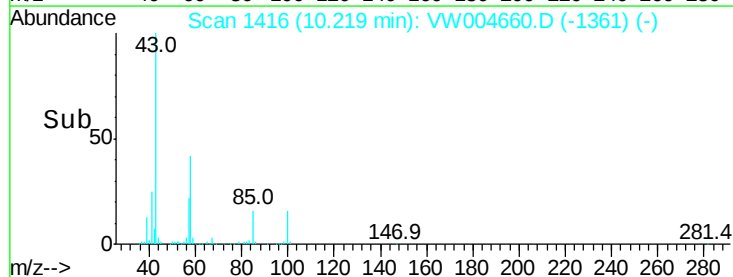
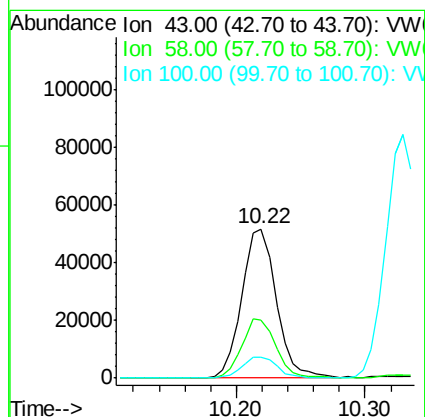
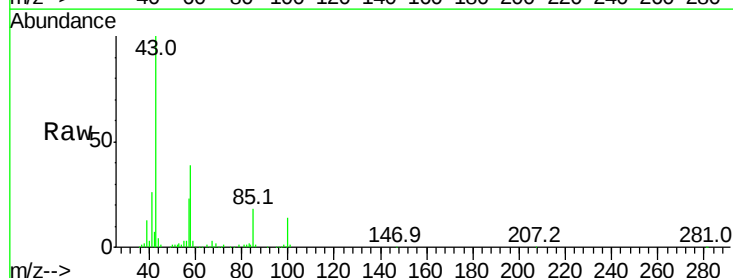
Tgt Ion: 43 Resp: 95327

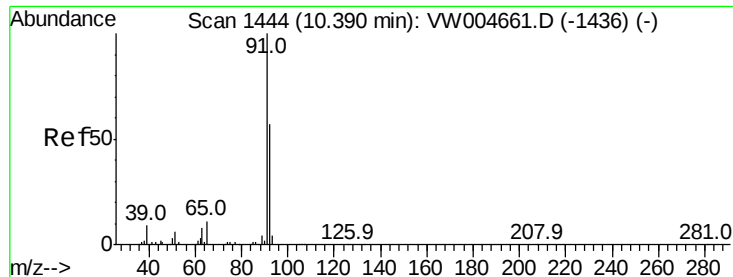
Ion Ratio Lower Upper

43 100

58 39.2 31.8 47.8

100 14.3 12.2 18.4





#44

Toluene

Concen: 4.831 ug/L

RT: 10.39 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

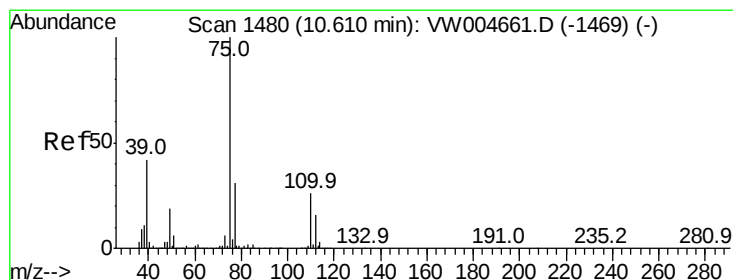
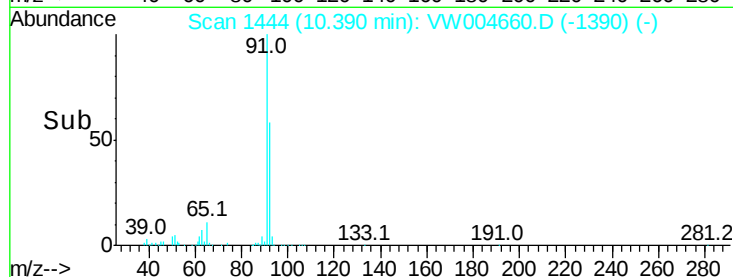
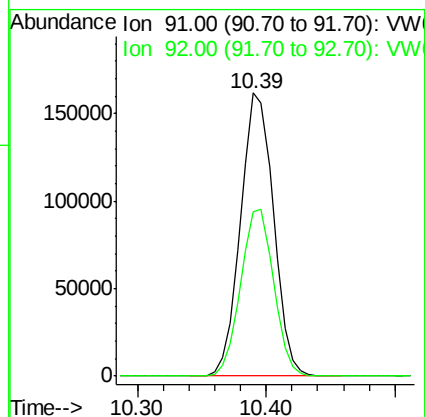
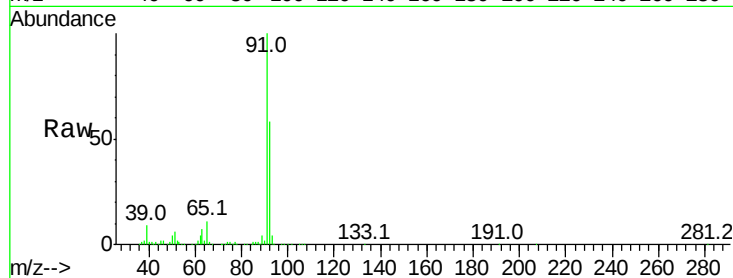
VSTD00591

Tgt Ion: 91 Resp: 286955

Ion Ratio Lower Upper

91 100

92 57.9 40.3 74.8



#45

trans-1,3-Dichloropropene

Concen: 4.555 ug/L

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW004660.D

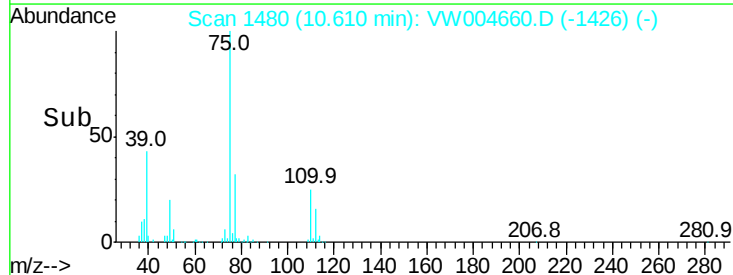
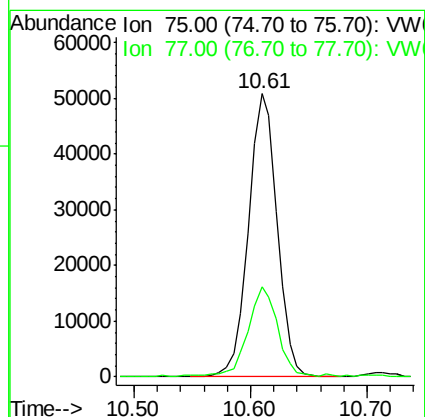
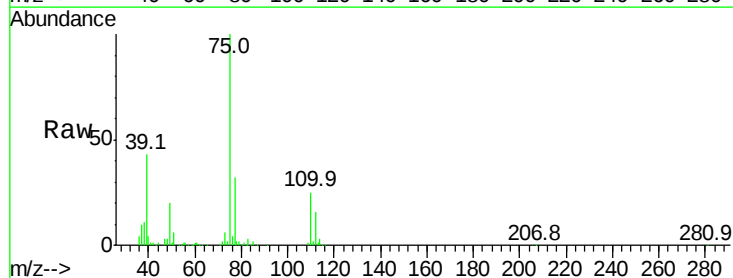
Acq: 14 Aug 2018 10:12

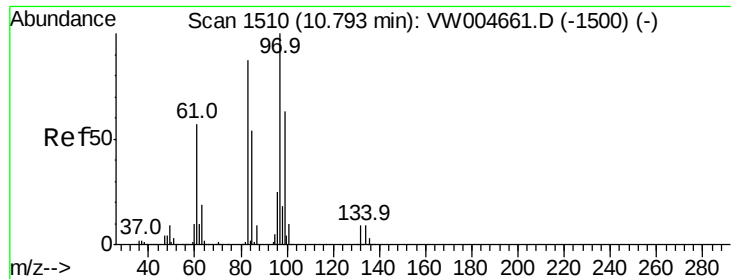
Tgt Ion: 75 Resp: 87547

Ion Ratio Lower Upper

75 100

77 31.9 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 4.865 ug/L

RT: 10.79 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD00591

Tgt Ion: 97 Resp: 59124

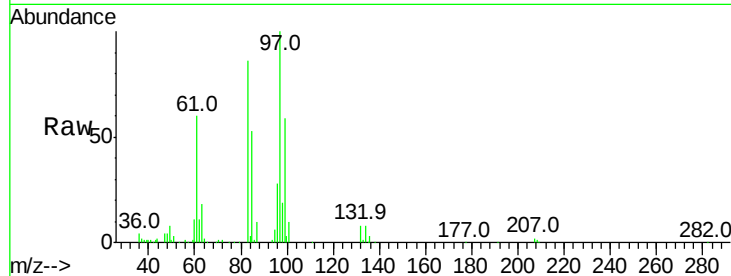
Ion Ratio Lower Upper

97 100

83 86.3 60.6 112.6

85 53.0 37.9 70.5

99 58.6 43.8 81.4

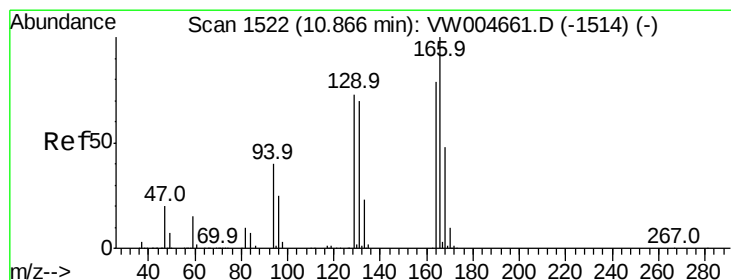
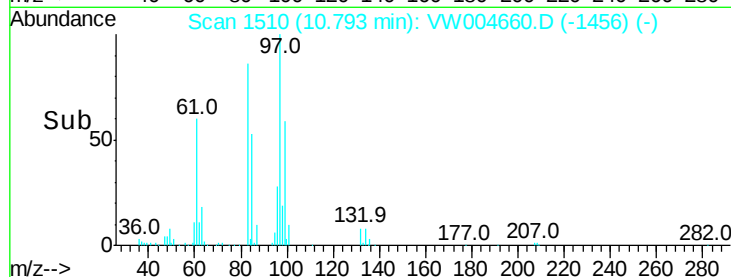
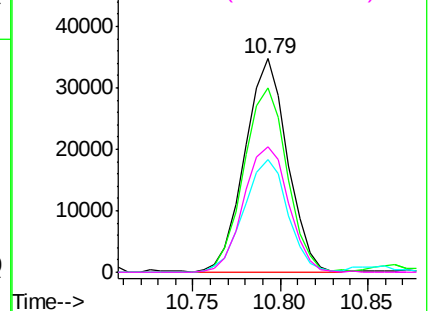


Abundance Ion 97.00 (96.70 to 97.70): VW

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



#47

Tetrachloroethene

Concen: 5.285 ug/L

RT: 10.87 min Scan# 1522

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Tgt Ion: 164 Resp: 62078

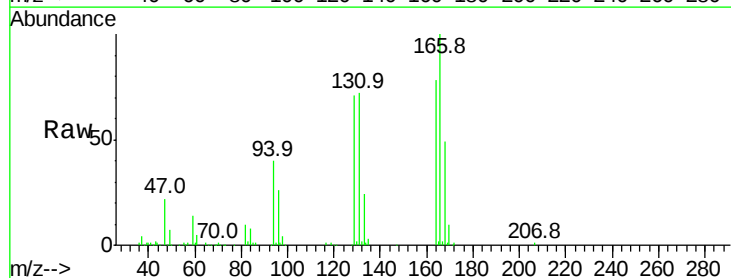
Ion Ratio Lower Upper

164 100

129 90.9 65.0 120.6

131 91.5 62.2 115.4

166 127.8 88.9 165.1

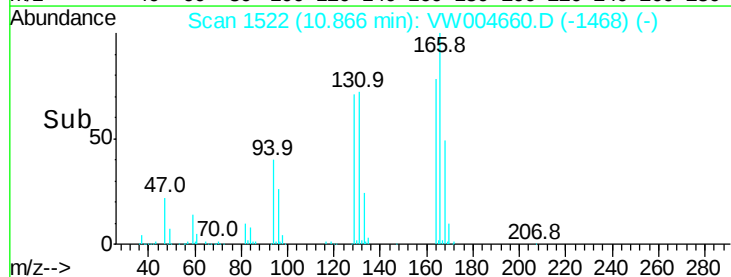
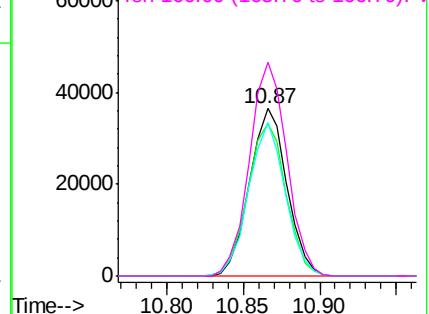


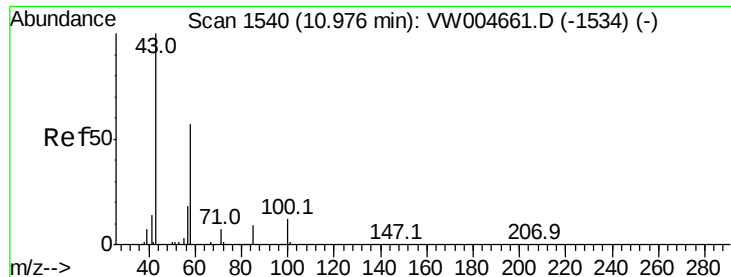
Abundance Ion 164.00 (163.70 to 164.70): V

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





#49

2-Hexanone

Concen: 8.078 ug/L

RT: 10.98 min Scan# 1540

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD00591

Tgt Ion: 43 Resp: 71151

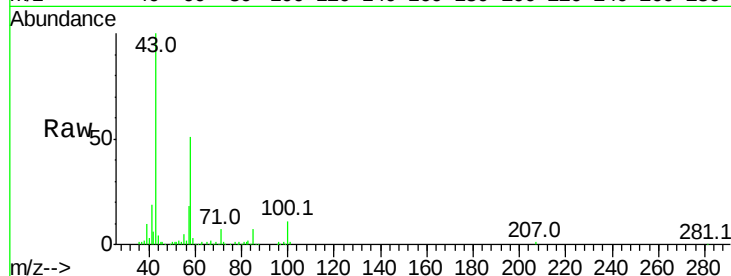
Ion Ratio Lower Upper

43 100

58 52.4 44.4 66.6

57 18.2 14.8 22.2

100 11.3 9.4 14.2

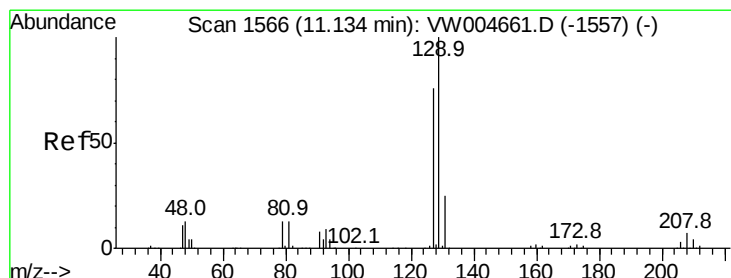
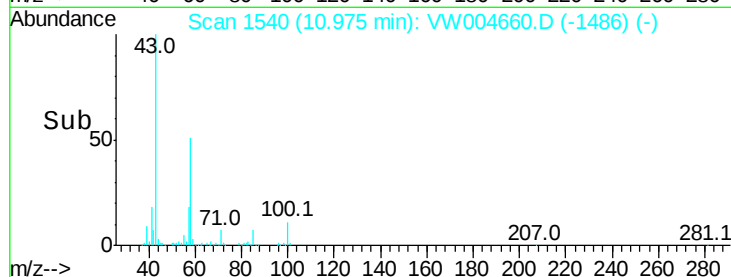
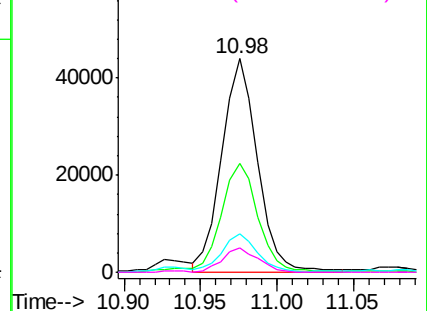


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#50

Dibromochloromethane

Concen: 4.669 ug/L

RT: 11.13 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VW004660.D

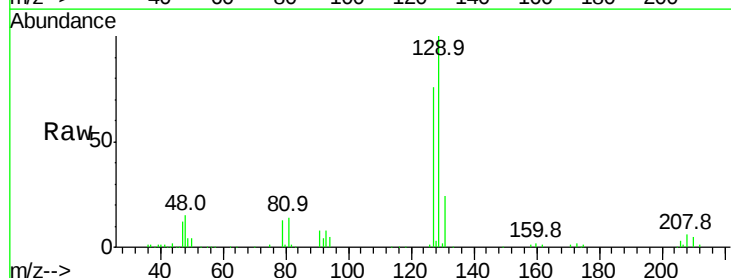
Acq: 14 Aug 2018 10:12

Tgt Ion: 129 Resp: 62936

Ion Ratio Lower Upper

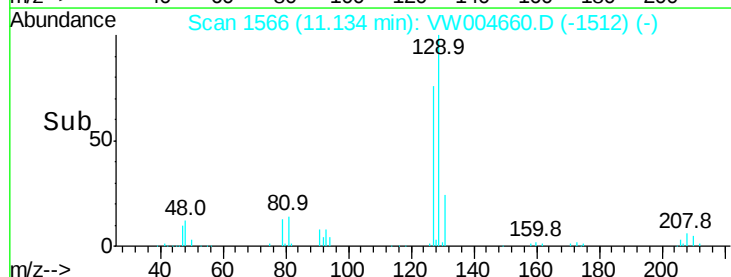
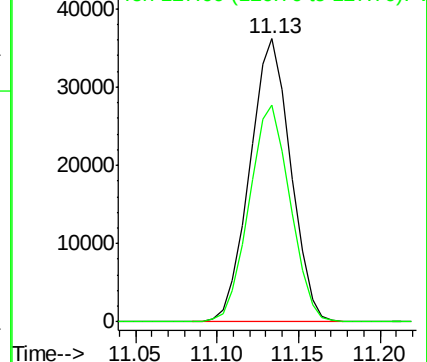
129 100

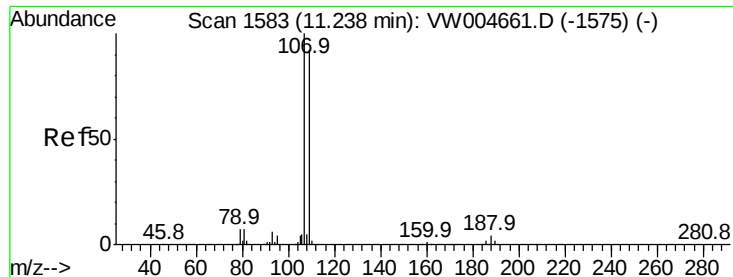
127 76.4 53.3 98.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

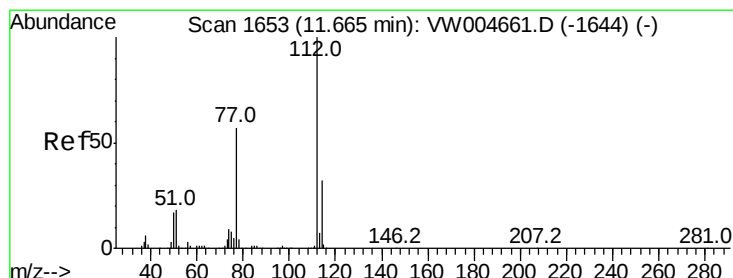
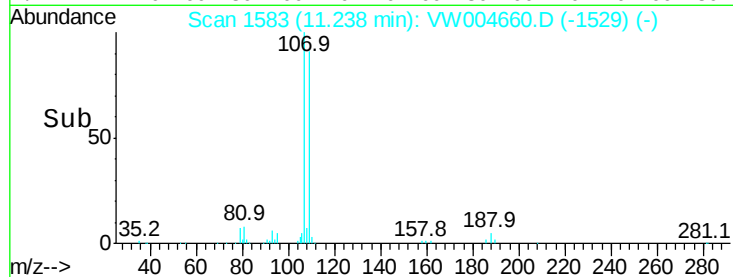
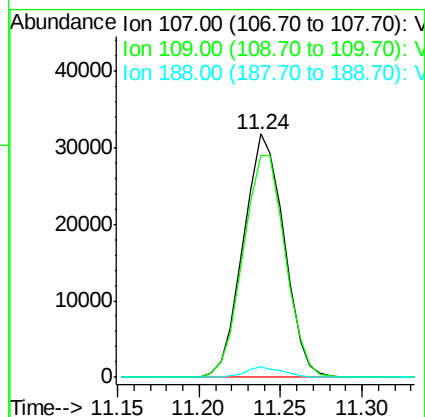
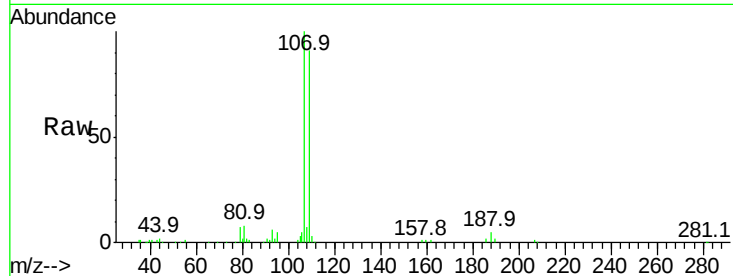




#51
1,2-Dibromoethane
Concen: 4.744 ug/L
RT: 11.24 min Scan# 1583
Delta R.T. -0.00 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

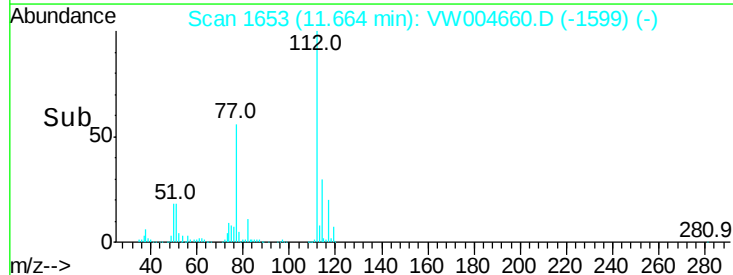
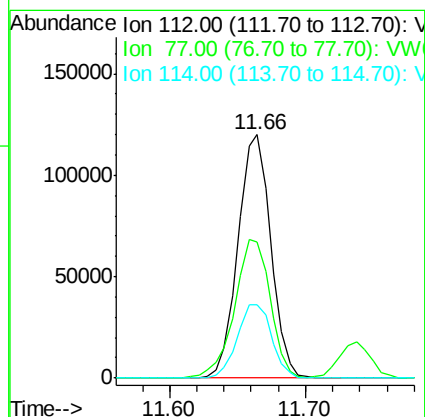
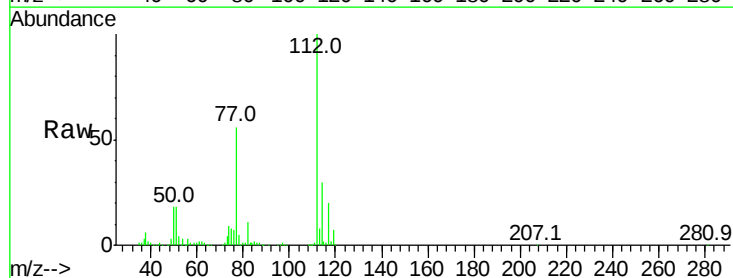
Instrument :
MSVOA_W
ClientSampleId :
VSTD00591

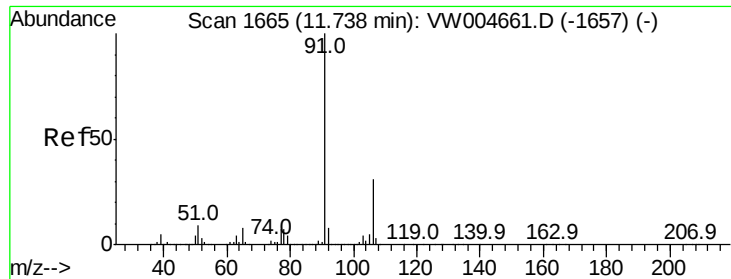
Tgt Ion:107 Resp: 55263
Ion Ratio Lower Upper
107 100
109 91.0 64.5 119.9
188 4.6 2.8 4.2#



#52
Chlorobenzene
Concen: 5.028 ug/L
RT: 11.66 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

Tgt Ion:112 Resp: 201970
Ion Ratio Lower Upper
112 100
77 56.1 46.0 69.0
114 30.1 22.3 41.5





#53

Ethylbenzene

Concen: 4.692 ug/L

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampled :

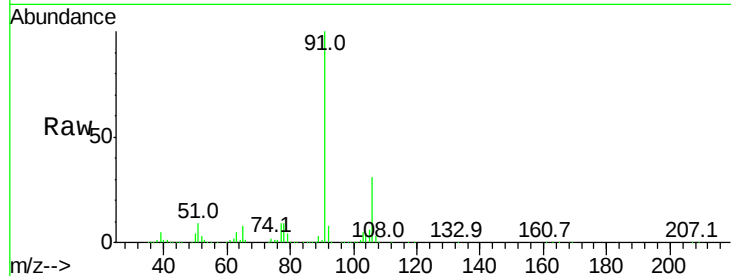
VSTD00591

Tgt Ion: 91 Resp: 313187

Ion Ratio Lower Upper

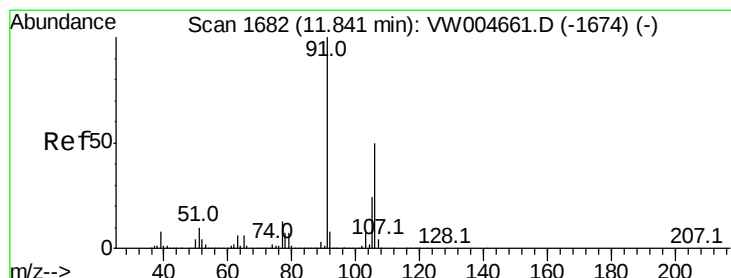
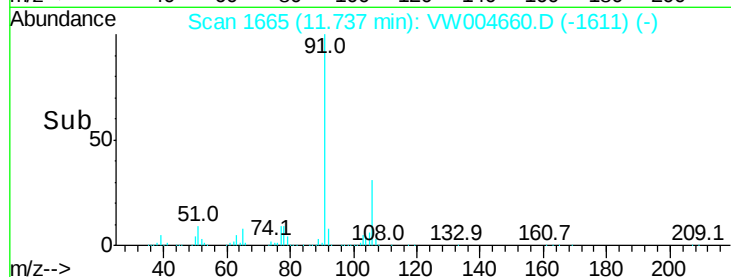
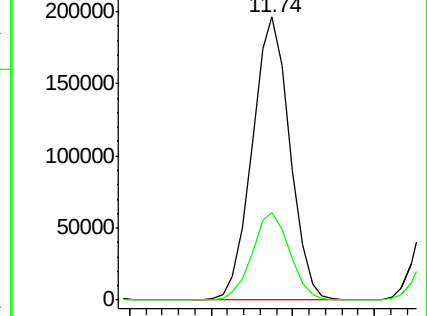
91 100

106 31.1 22.0 40.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 4.745 ug/L

RT: 11.85 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VW004660.D

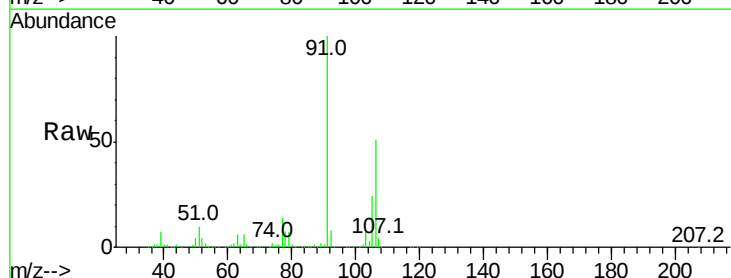
Acq: 14 Aug 2018 10:12

Tgt Ion:106 Resp: 118162

Ion Ratio Lower Upper

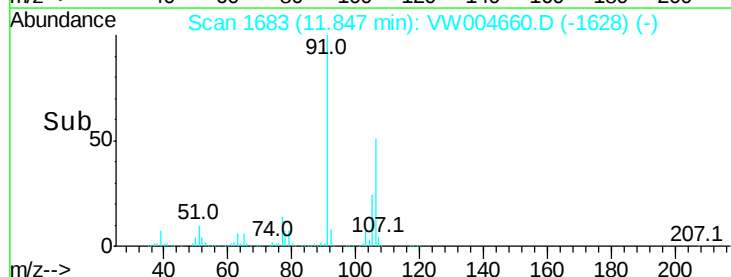
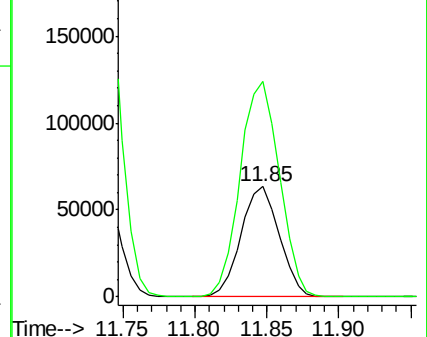
106 100

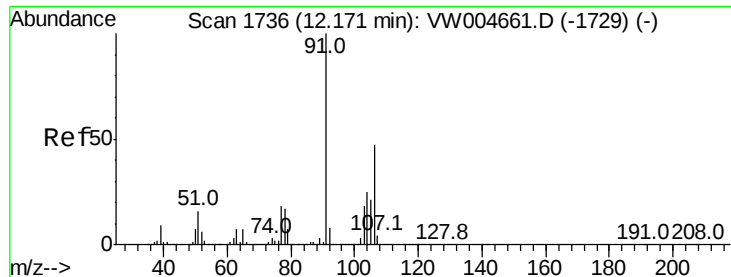
91 196.3 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

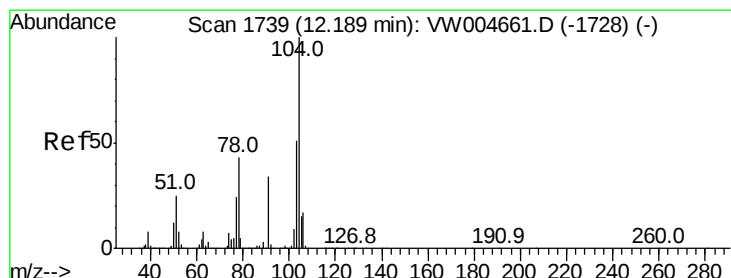
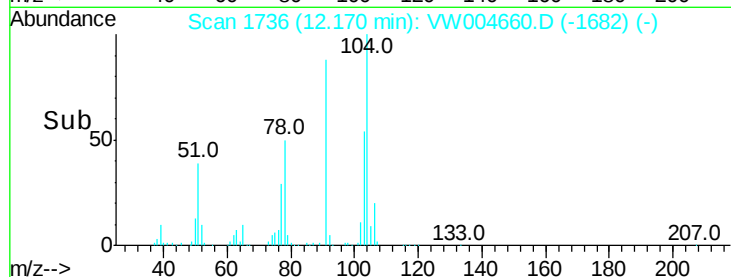
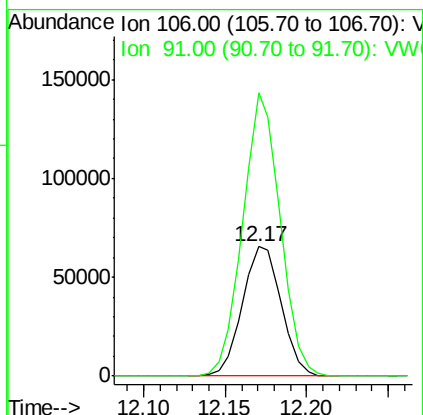
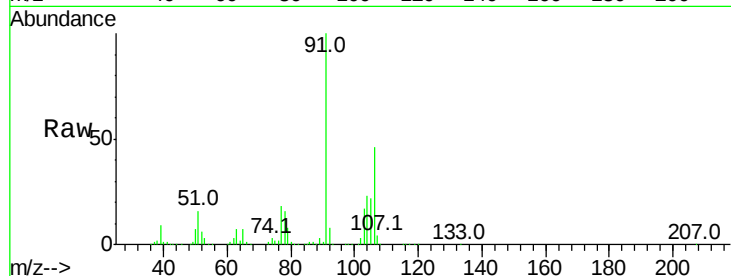




#55
o-xylene
Concen: 4.621 ug/L
RT: 12.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

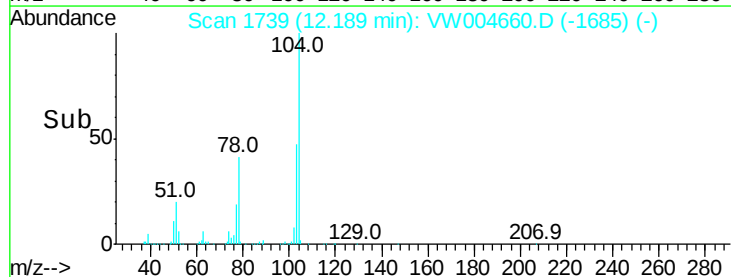
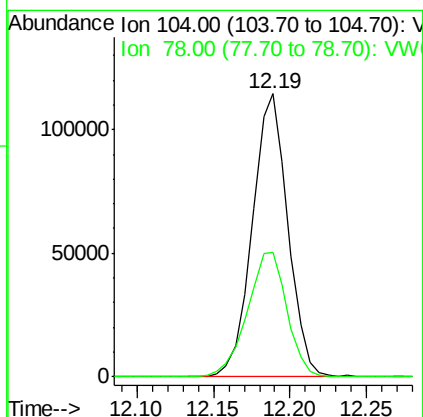
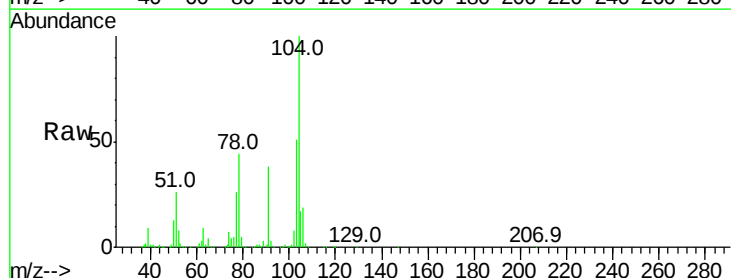
Instrument :
MSVOA_W
ClientSampleId :
VSTD00591

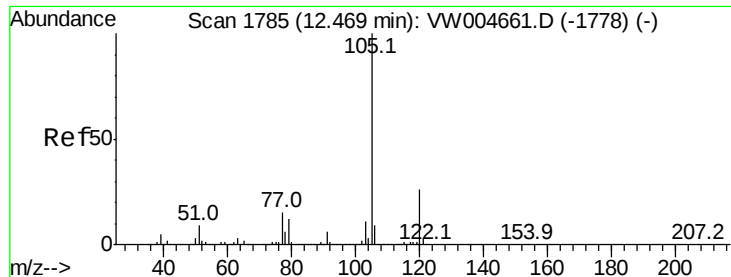
Tgt Ion:106 Resp: 109041
Ion Ratio Lower Upper
106 100
91 218.9 150.1 278.7



#56
Styrene
Concen: 4.494 ug/L
RT: 12.19 min Scan# 1739
Delta R.T. -0.00 min
Lab File: VW004660.D
Acq: 14 Aug 2018 10:12

Tgt Ion:104 Resp: 184773
Ion Ratio Lower Upper
104 100
78 44.2 29.9 55.5





#57

Isopropylbenzene

Concen: 4.625 ug/L

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

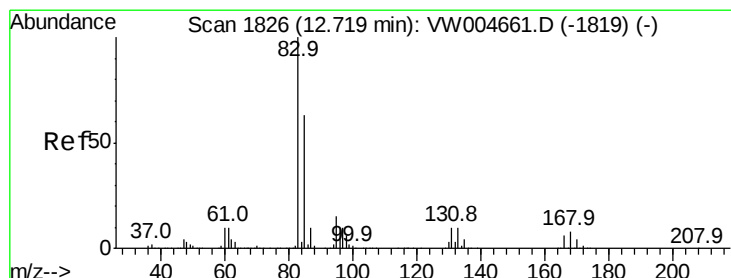
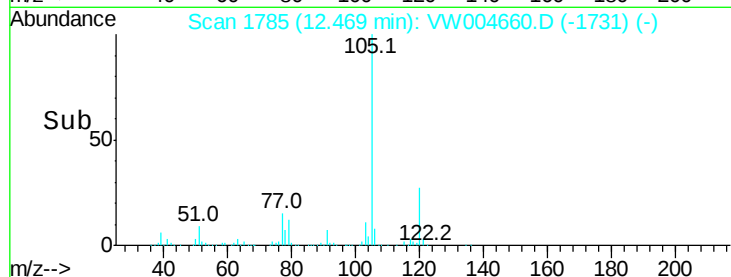
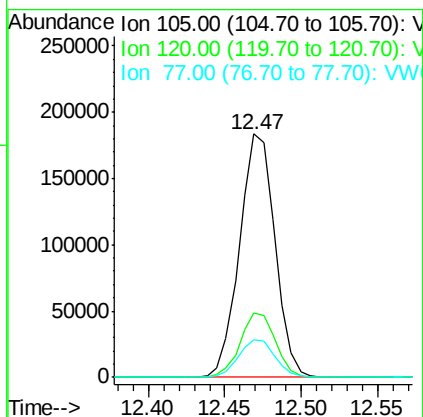
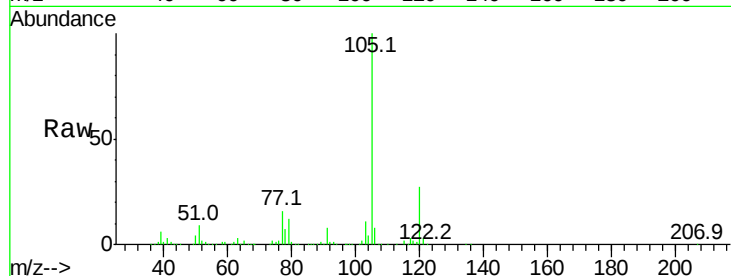
Instrument :

MSVOA_W

ClientSampleId :

VSTD00591

Tgt Ion:	105	Resp:	295395
Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.2	31.8
77	15.7	12.1	18.1



#58

1,1,2,2-Tetrachloroethane

Concen: 4.687 ug/L

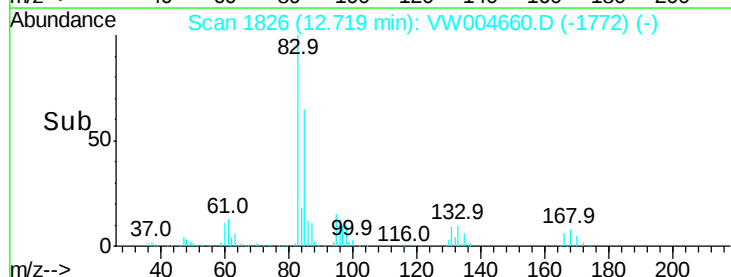
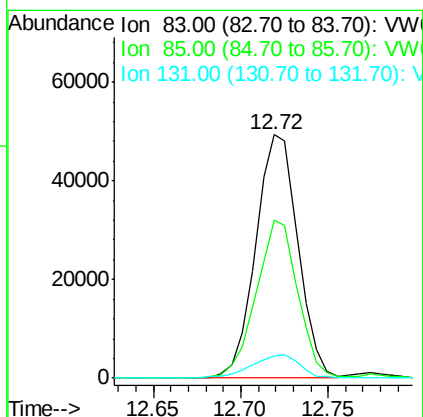
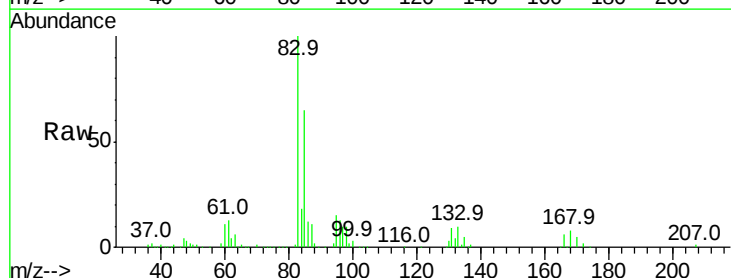
RT: 12.72 min Scan# 1826

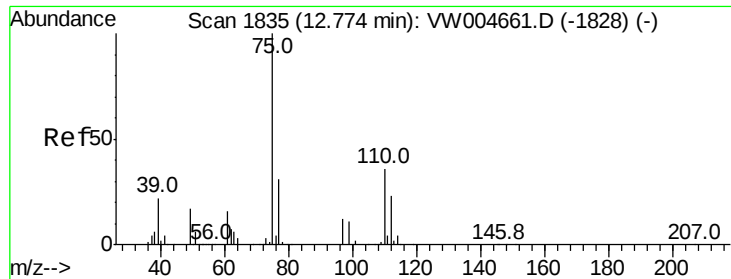
Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Tgt Ion:	83	Resp:	82670
Ion	Ratio	Lower	Upper
83	100		
85	64.9	44.4	82.5
131	9.4	8.2	12.4





#59

1,2,3-Trichloropropane

Concen: 4.660 ug/L

RT: 12.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

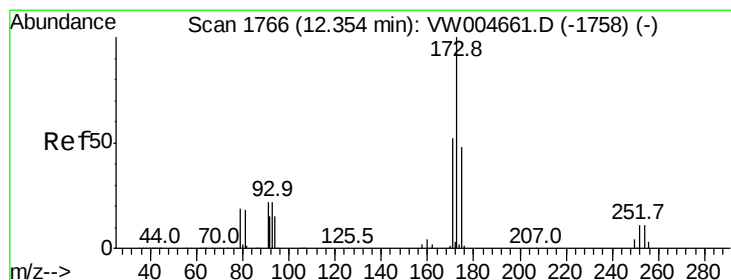
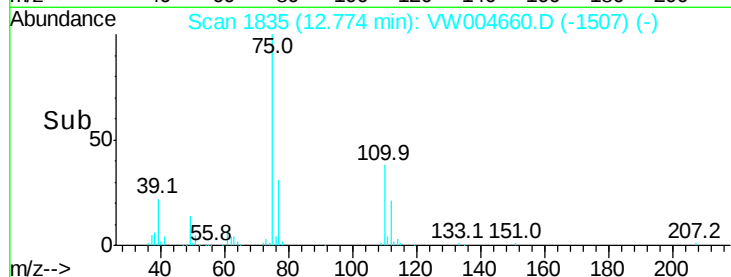
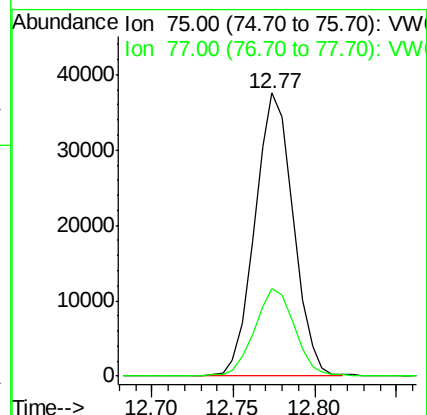
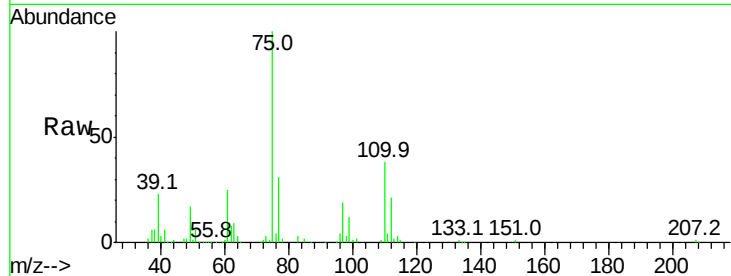
VSTD00591

Tgt Ion: 75 Resp: 61388

Ion Ratio Lower Upper

75 100

77 32.3 25.8 38.6



#62

Bromoform

Concen: 4.752 ug/L

RT: 12.35 min Scan# 1766

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

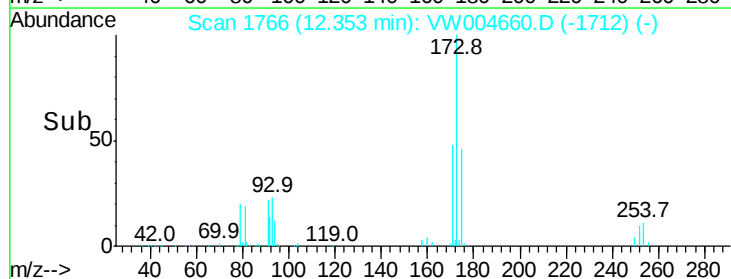
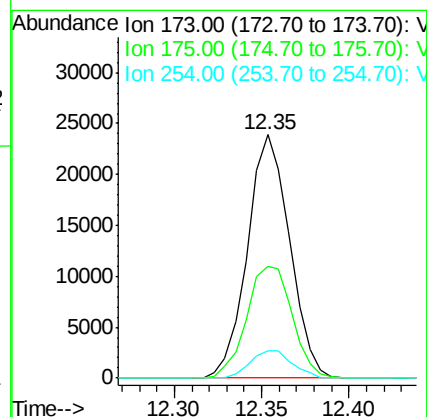
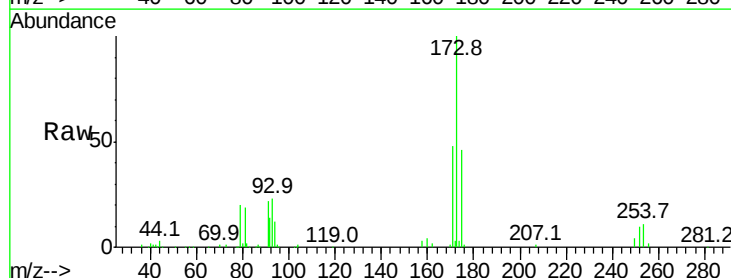
Tgt Ion: 173 Resp: 40077

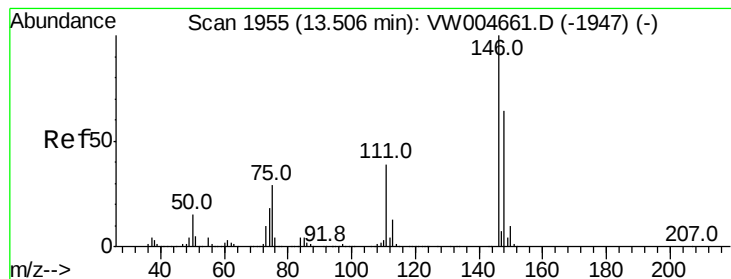
Ion Ratio Lower Upper

173 100

175 49.6 39.2 58.8

254 11.3 8.8 13.2





#63

1,3-Dichlorobenzene

Concen: 4.963 ug/L

RT: 13.51 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD00591

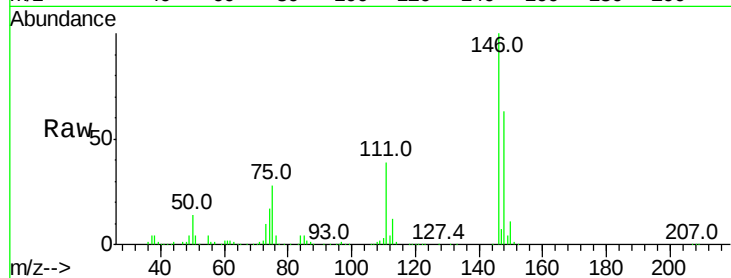
Tgt Ion:146 Resp: 143287

Ion Ratio Lower Upper

146 100

111 39.4 27.5 51.1

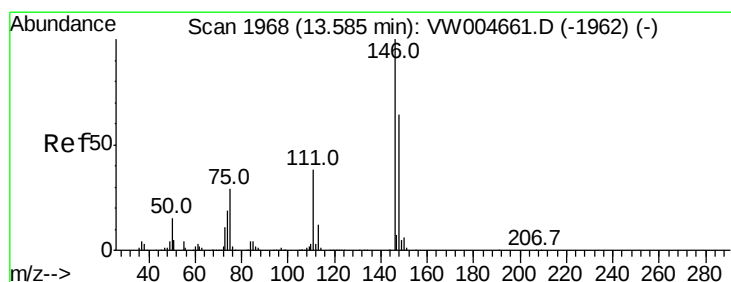
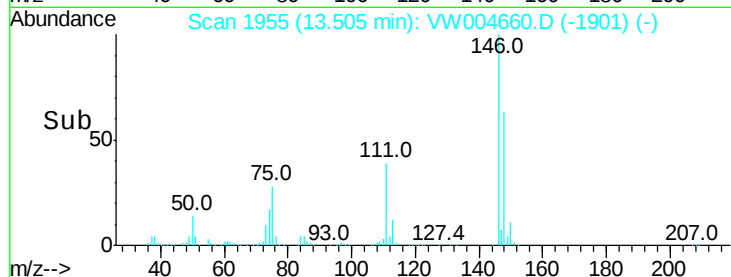
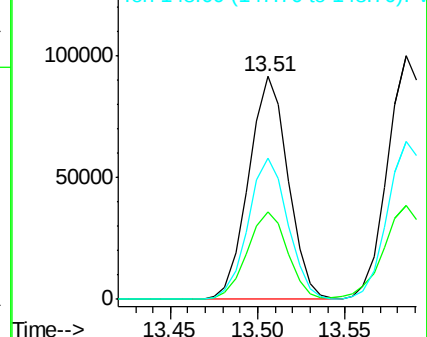
148 63.2 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 5.080 ug/L

RT: 13.58 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

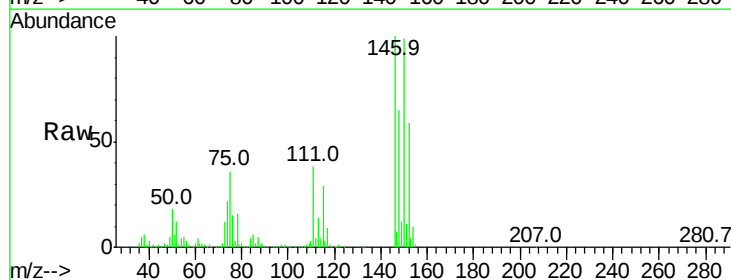
Tgt Ion:146 Resp: 157653

Ion Ratio Lower Upper

146 100

111 38.4 26.7 49.5

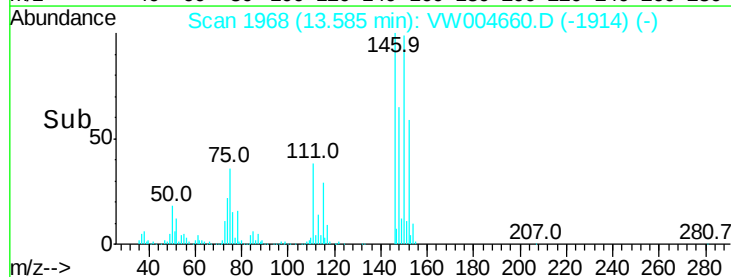
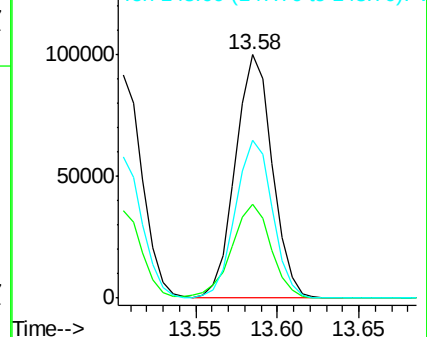
148 64.7 44.8 83.2

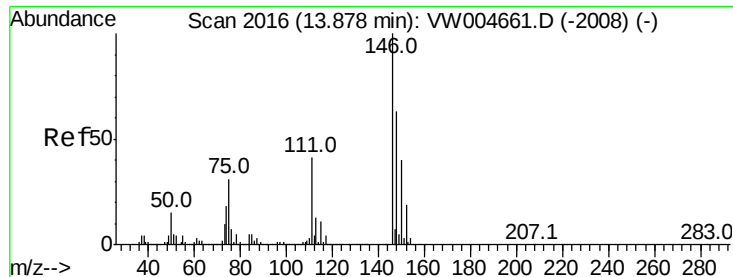


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

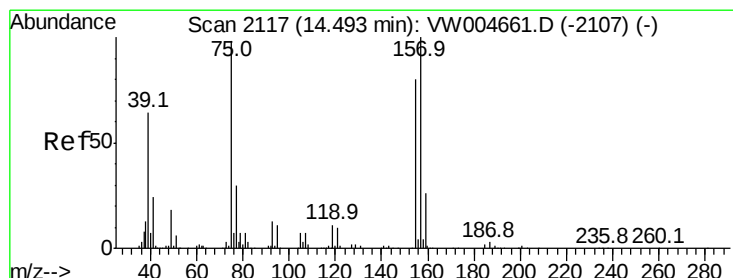
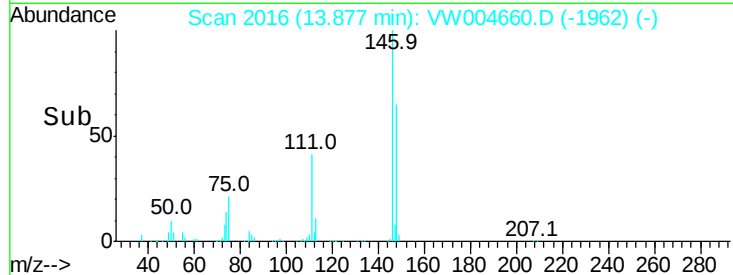
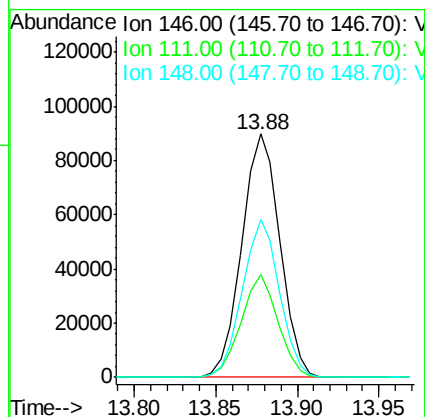
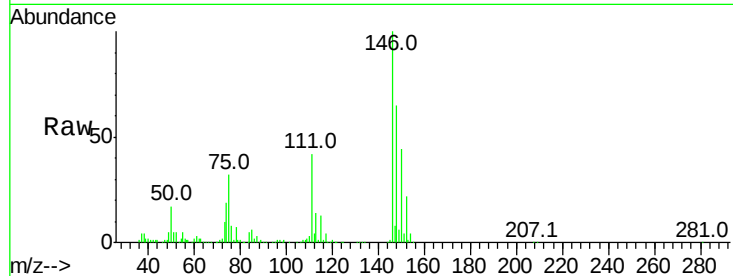




#65
 1,2-Dichlorobenzene
 Concen: 5.039 ug/L
 RT: 13.88 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VW004660.D
 Acq: 14 Aug 2018 10:12

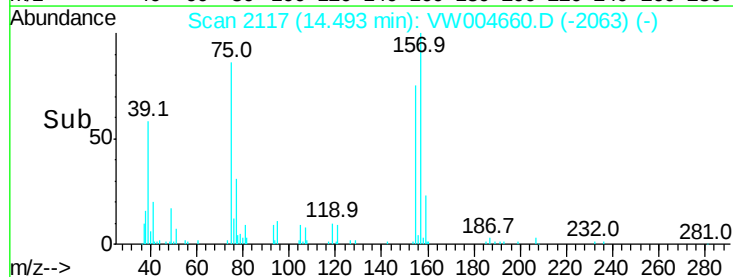
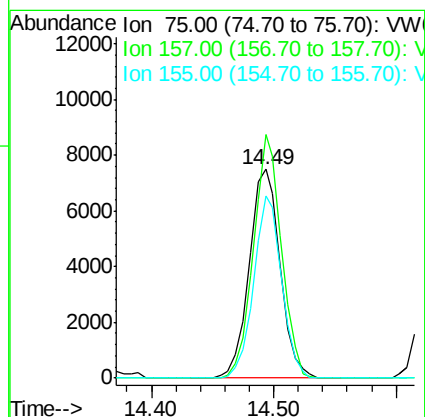
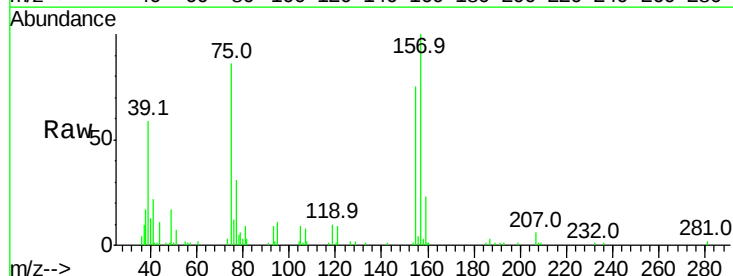
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00591

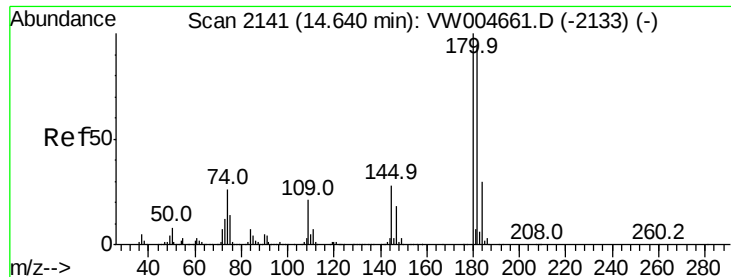
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.2	32.9	49.3
148	65.0	50.7	76.1



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.419 ug/L
 RT: 14.49 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VW004660.D
 Acq: 14 Aug 2018 10:12

Tgt Ion	Ratio	Lower	Upper
75	100		
157	116.6	81.8	122.8
155	87.4	65.4	98.0

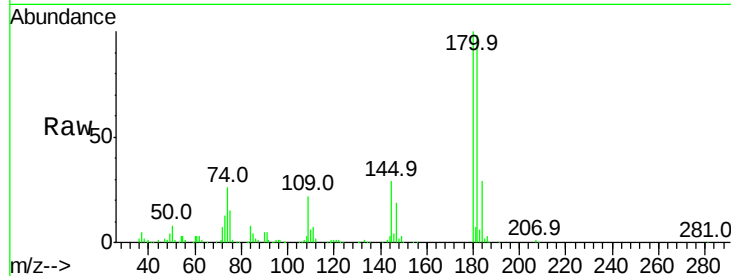




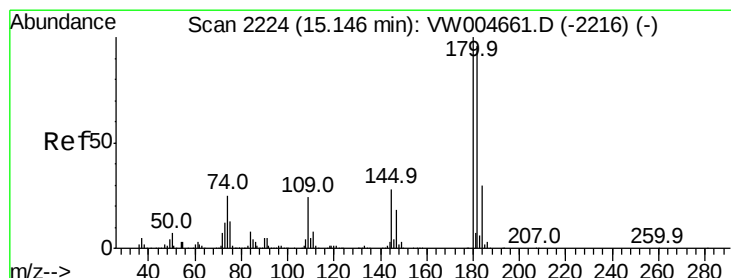
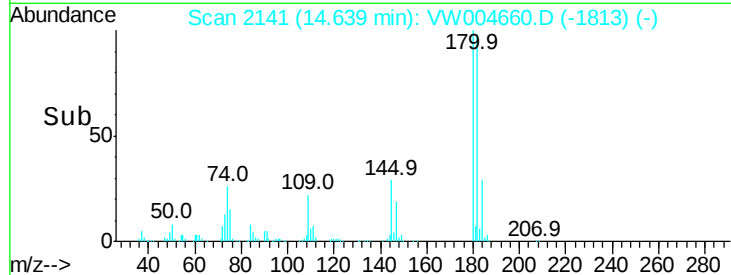
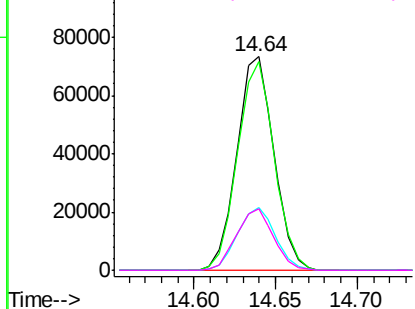
#67
 1,3,5-Trichlorobenzene
 Concen: 5.079 ug/L
 RT: 14.64 min Scan# 2141
 Delta R.T. -0.00 min
 Lab File: VW004660.D
 Acq: 14 Aug 2018 10:12

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD00591

Tgt Ion:180 Resp: 116245
 Ion Ratio Lower Upper
 180 100
 182 96.6 76.1 114.1
 184 29.8 24.2 36.4
 145 28.7 22.6 34.0

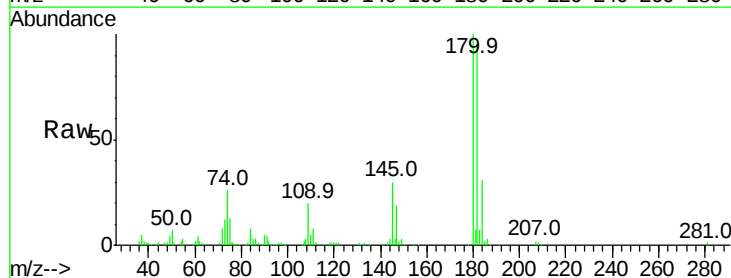


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

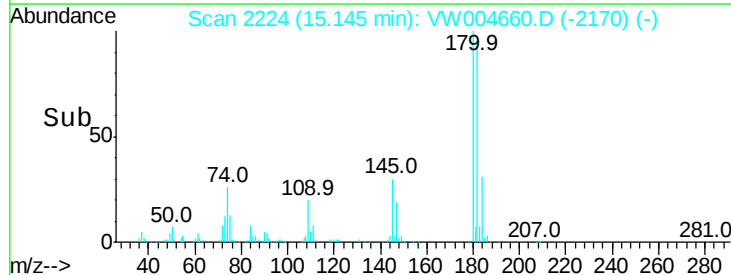
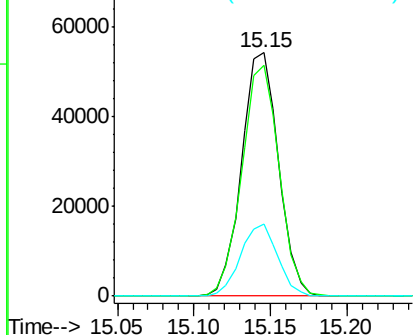


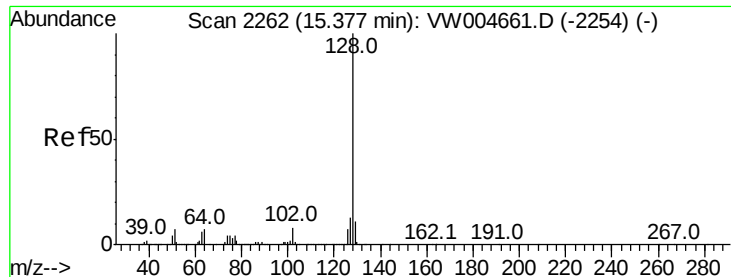
#68
 1,2,4-trichlorobenzene
 Concen: 4.911 ug/L
 RT: 15.15 min Scan# 2224
 Delta R.T. -0.00 min
 Lab File: VW004660.D
 Acq: 14 Aug 2018 10:12

Tgt Ion:180 Resp: 90943
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.7 115.1
 145 29.7 23.4 35.2



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: 4.007 ug/L

RT: 15.38 min Scan# 2262

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

Instrument :

MSVOA_W

ClientSampleId :

VSTD00591

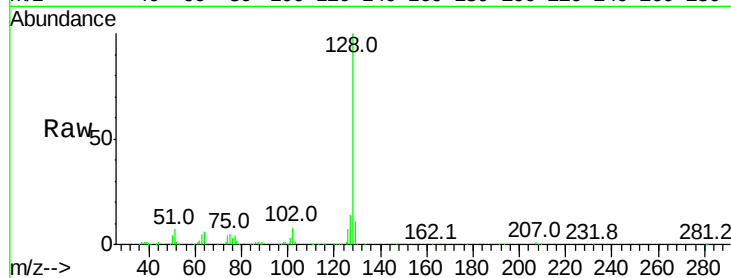
Tgt Ion:128 Resp: 169225

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

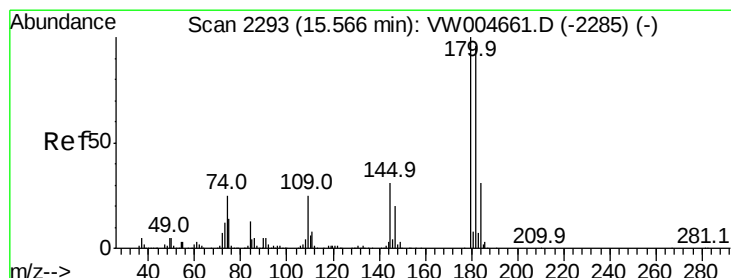
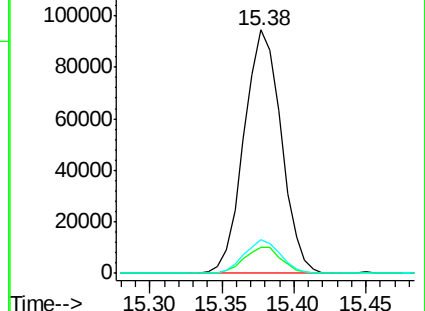
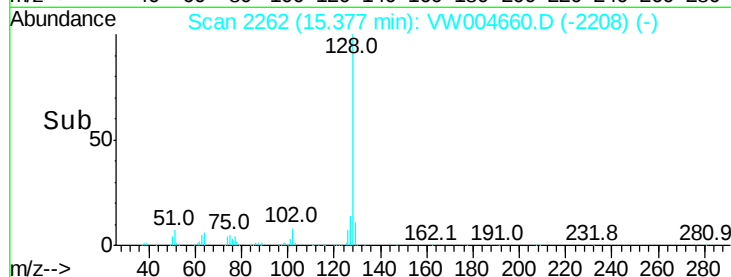
127 13.5 10.6 15.8



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: 4.945 ug/L

RT: 15.57 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VW004660.D

Acq: 14 Aug 2018 10:12

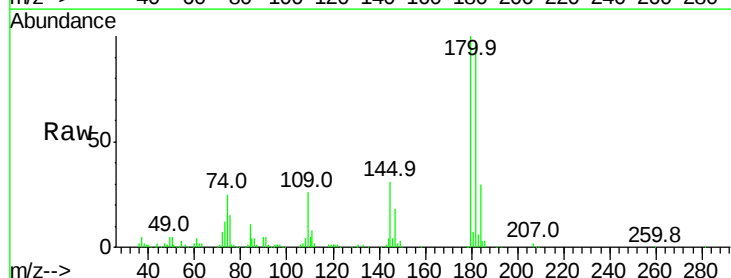
Tgt Ion:180 Resp: 89167

Ion Ratio Lower Upper

180 100

182 95.8 75.8 113.8

145 30.5 24.4 36.6



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

