

Data File : VW005516.D
Acq On : 19 Sep 2018 15:50
Operator : SY/AP
Sample : VSTD00592
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00592

Quant Time: Sep 19 17:20:58 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091918S.M
Quant Title : VOC Analysis
QLast Update : Wed Sep 19 17:19:22 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	480484	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	456702	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	226275	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	14352	2.59	ug/L	0.00
7) Chloroethane-d5	2.89	69	15692	4.00	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	46771	4.72	ug/L	0.00
20) 2-Butanone-d5	7.09	46	12629	6.05	ug/L	0.00
24) Chloroform-d	7.65	84	40479	4.52	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	24226	4.23	ug/L	0.00
29) Benzene-d6	8.27	84	77750	4.24	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.28	67	23839	4.55	ug/L	0.00
37) Toluene-d8	10.33	98	71112	3.83	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	10628	4.06	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	9227	5.66	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	21209	3.87	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	26466	3.90	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	25162	2.540 ug/L	92
3) Chloromethane	2.22	50	32797	3.596 ug/L	95
5) Vinyl chloride	2.37	62	23438	2.697 ug/L	97
6) Bromomethane	2.78	94	19099	4.242 ug/L	97
8) Chloroethane	2.92	64	19864	4.304 ug/L	97
9) Trichlorofluoromethane	3.26	101	28607	2.528 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	13498	2.183 ug/L #	8
12) 1,1-Dichloroethene	4.03	96	26378	5.045 ug/L #	80
13) Acetone	4.14	43	22815	11.635 ug/L	94
14) Carbon disulfide	4.38	76	81100	3.951 ug/L	100
15) Methyl Acetate	4.67	43	19654	4.543 ug/L	96
16) Methylene chloride	4.92	84	40431	4.431 ug/L	98
17) Methyl tert-butyl Ether	5.42	73	45087	3.106 ug/L #	85
18) trans-1,2-Dichloroethene	5.42	96	29660	5.080 ug/L	98
19) 1,1-Dichloroethane	6.21	63	58558	5.488 ug/L	96
21) 2-Butanone	7.18	43	27560	9.171 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	33128	5.316 ug/L	98
23) Bromochloromethane	7.51	128	15151	5.217 ug/L	96
25) Chloroform	7.68	83	59147	5.271 ug/L	99
27) 1,2-Dichloroethane	8.40	62	43180	4.958 ug/L #	94
30) Cyclohexane	7.96	56	50514	4.899 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	49744	4.791 ug/L	99
32) Carbon tetrachloride	8.07	117	46361	4.813 ug/L	99
34) Benzene	8.32	78	129434	5.087 ug/L	100
35) Trichloroethene	9.10	95	33405	4.947 ug/L	98
36) Methylcyclohexane	9.34	83	58447	4.986 ug/L	98
40) 1,2-Dichloropropane	9.37	63	33965	5.407 ug/L	98
41) Bromodichloromethane	9.65	83	41383	5.140 ug/L	98
42) cis-1,3-Dichloropropene	10.08	75	47474	5.117 ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	49465	8.237 ug/L	98

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	134027	4.597	ug/L	99
45) trans-1,3-Dichloropropene	10.61	75	43760	5.034	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	25467	5.165	ug/L	99
47) Tetrachloroethene	10.87	164	28129	4.600	ug/L	99
49) 2-Hexanone	10.98	43	35569	8.057	ug/L	99
50) Dibromochloromethane	11.13	129	28310	4.806	ug/L	94
51) 1,2-Dibromoethane	11.24	107	24533	5.070	ug/L	91
52) Chlorobenzene	11.66	112	89987	4.730	ug/L	97
53) Ethylbenzene	11.74	91	155279	4.580	ug/L	99
54) m,p-Xylene	11.85	106	56993	4.489	ug/L	97
55) o-xylene	12.17	106	53866	4.518	ug/L	97
56) Styrene	12.19	104	92799	4.510	ug/L	97
57) Isopropylbenzene	12.47	105	149395	4.511	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.72	83	34288	5.058	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	26533	4.579	ug/L	99
62) Bromoform	12.35	173	18380	4.848	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	70990	4.934	ug/L	100
64) 1,4-Dichlorobenzene	13.58	146	73256	4.933	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	66869	4.855	ug/L	95
66) 1,2-Dibromo-3-chloropropan	14.49	75	6165	4.125	ug/L	97
67) 1,3,5-Trichlorobenzene	14.64	180	55588	4.879	ug/L	100
68) 1,2,4-trichlorobenzene	15.14	180	44976	4.776	ug/L	99
69) Naphthalene	15.38	128	88602	4.295	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	43171	4.878	ug/L	99

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

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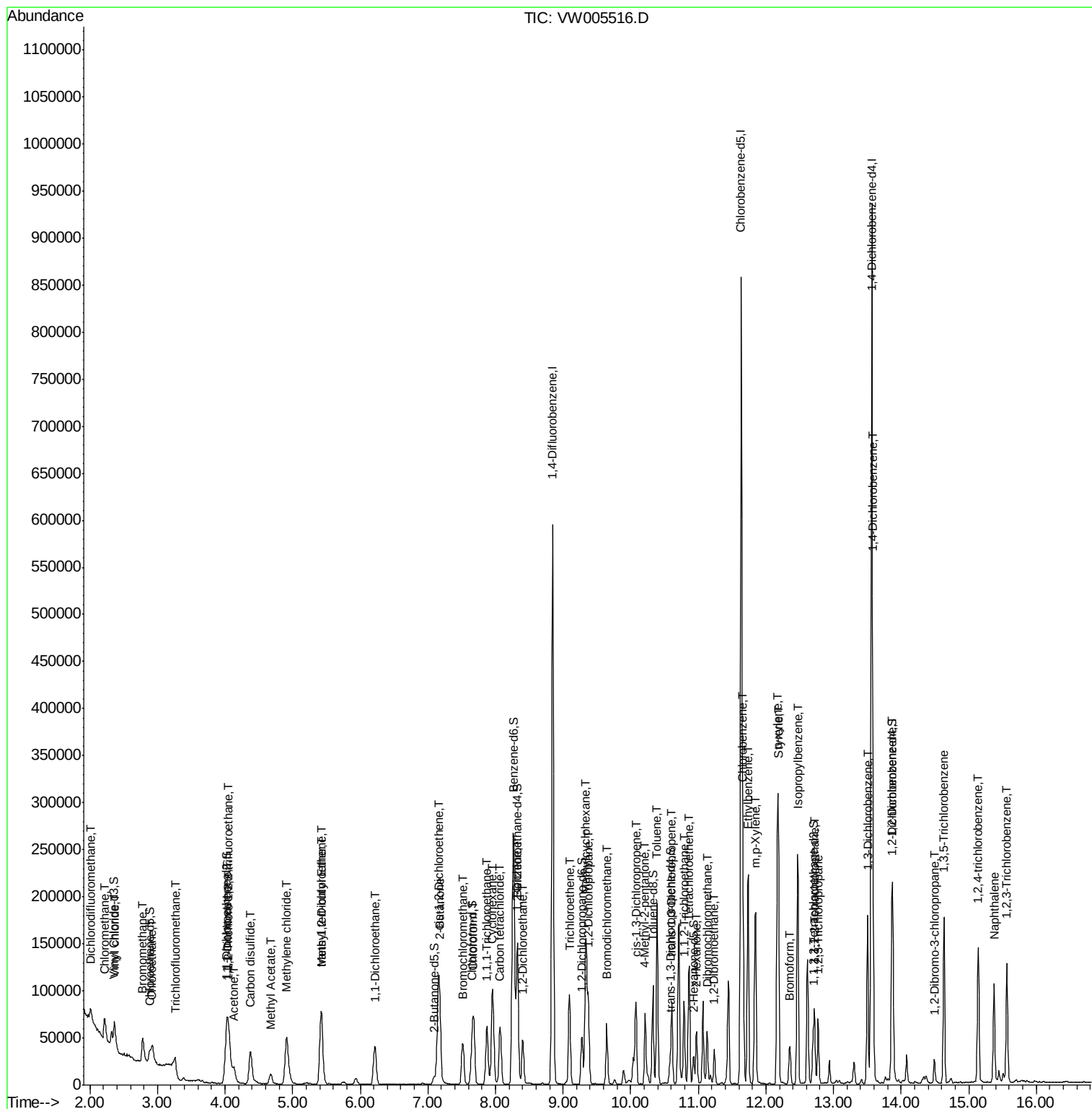
Quant Time: Sep 19 17:20:58 2018

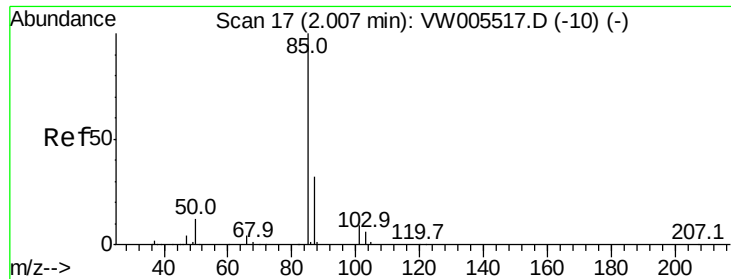
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091918S.M

Quant Title : VOC Analysis

QLast Update : Wed Sep 19 17:19:22 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.540 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

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Instrument :

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ClientSampleId :

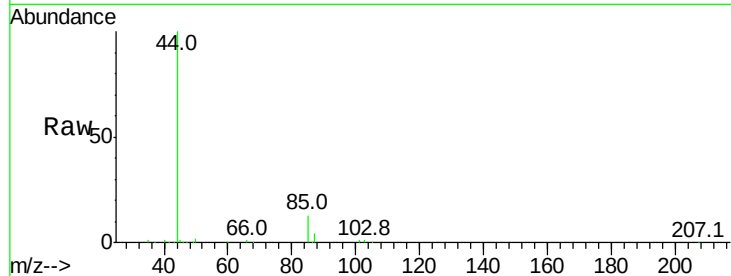
VSTD00592

Tgt Ion: 85 Resp: 25162

Ion Ratio Lower Upper

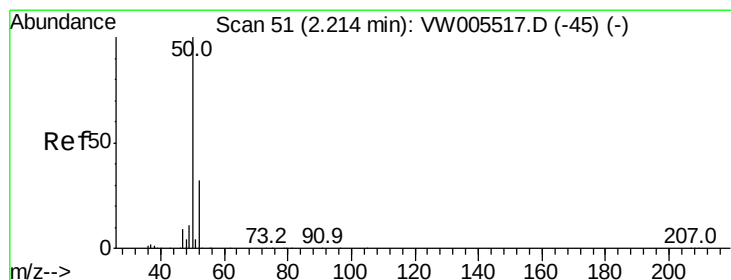
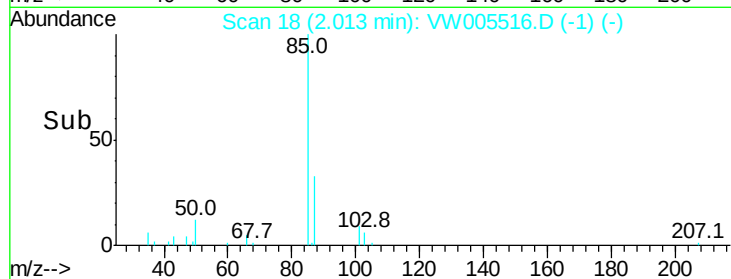
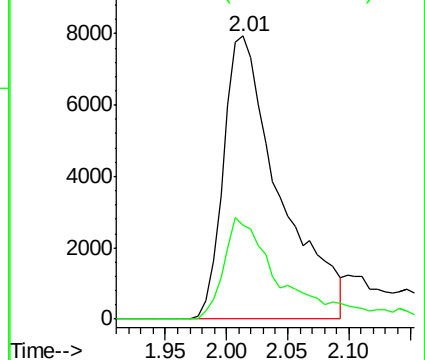
85 100

87 26.0 21.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 3.596 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW005516.D

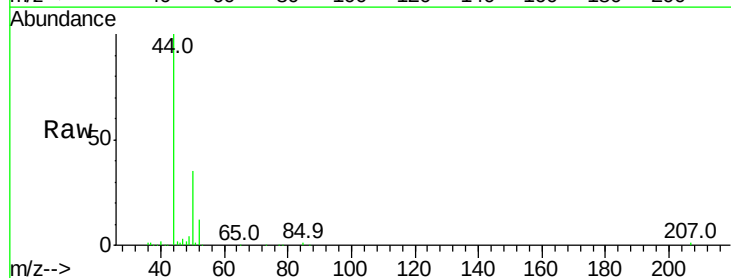
Acq: 19 Sep 2018 15:50

Tgt Ion: 50 Resp: 32797

Ion Ratio Lower Upper

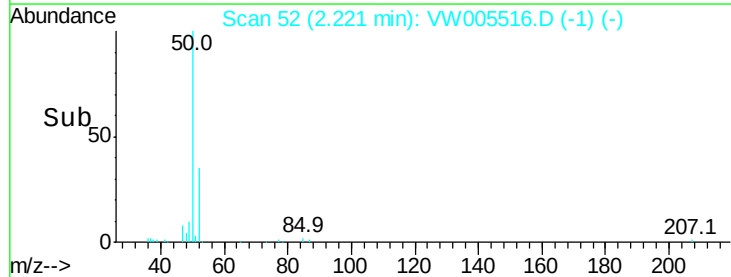
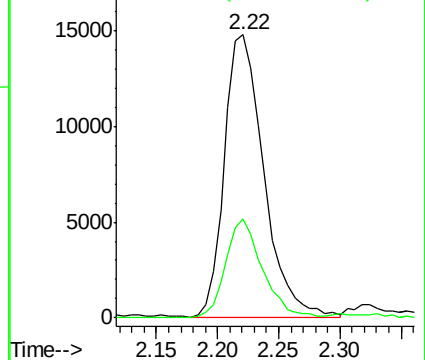
50 100

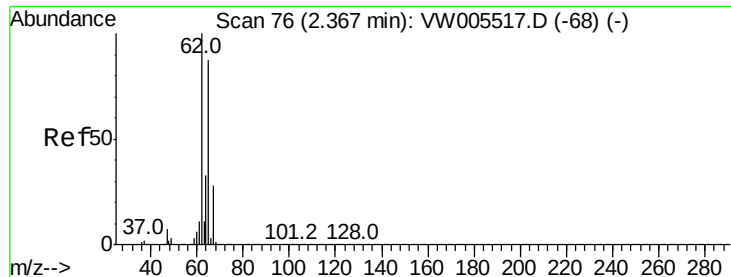
52 35.1 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 2.697 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

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ClientSampleId :

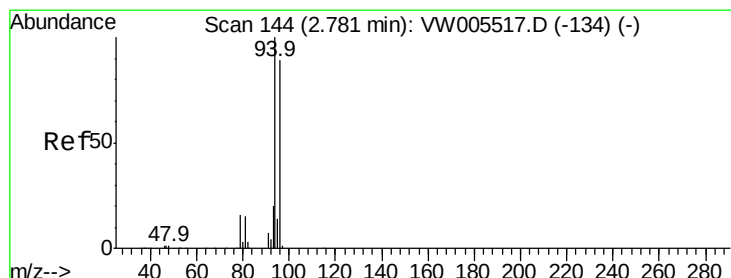
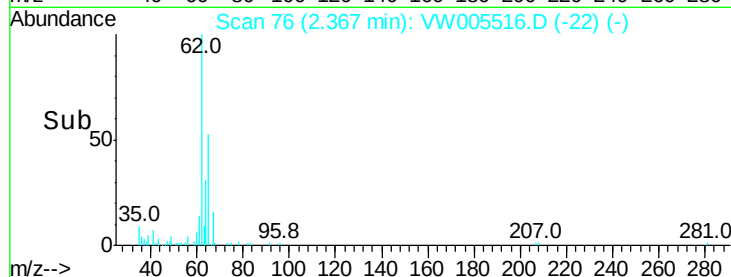
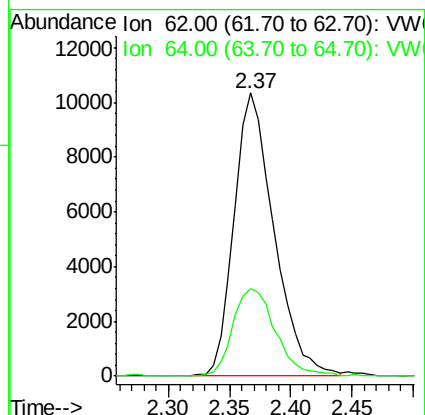
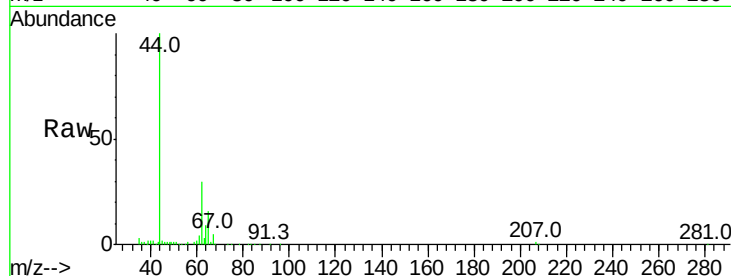
VSTD00592

Tgt Ion: 62 Resp: 23438

Ion Ratio Lower Upper

62 100

64 31.0 22.9 42.5



#6

Bromomethane

Concen: 4.242 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW005516.D

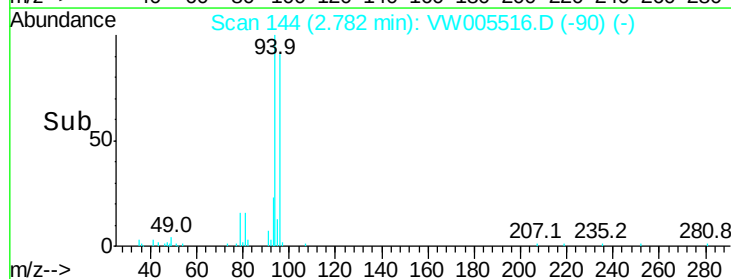
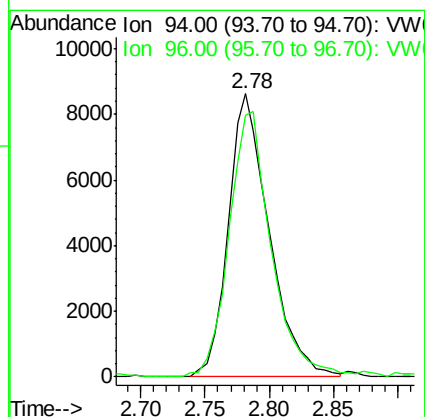
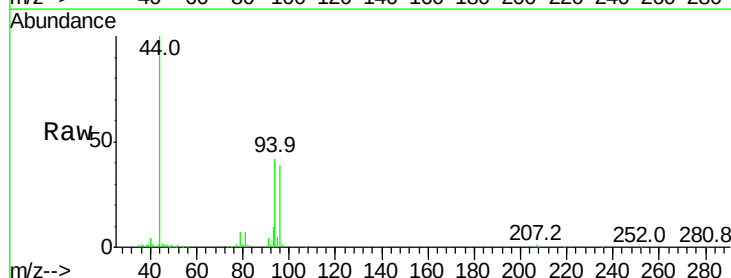
Acq: 19 Sep 2018 15:50

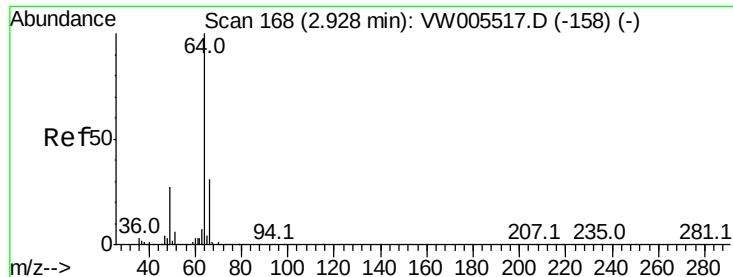
Tgt Ion: 94 Resp: 19099

Ion Ratio Lower Upper

94 100

96 96.7 9.4 178.6





#8

Chloroethane

Concen: 4.304 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

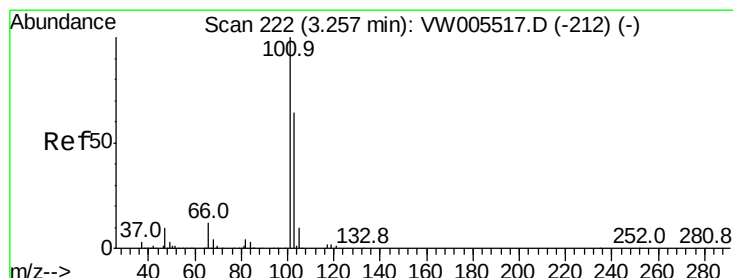
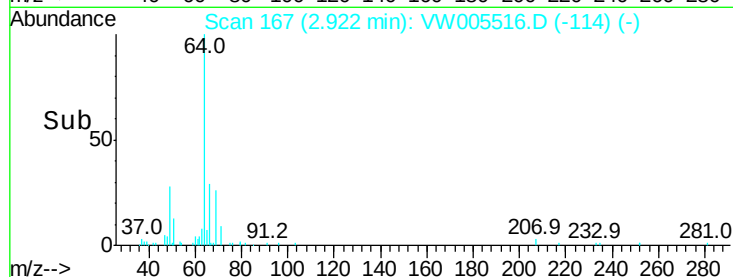
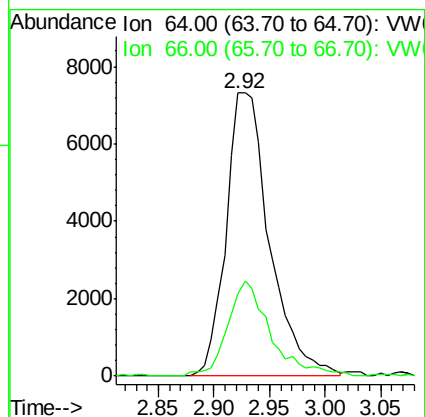
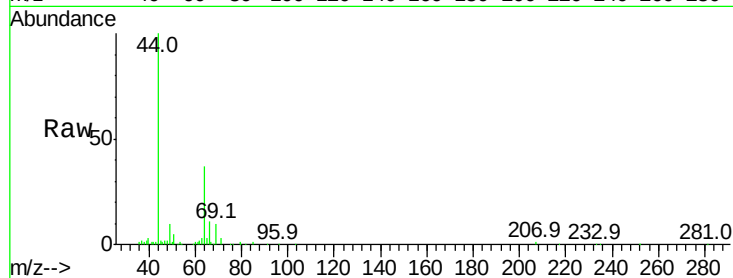
VSTD00592

Tgt Ion: 64 Resp: 19864

Ion Ratio Lower Upper

64 100

66 29.2 21.5 39.9



#9

Trichlorofluoromethane

Concen: 2.528 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW005516.D

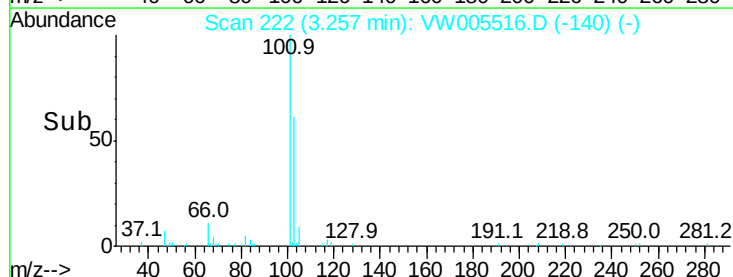
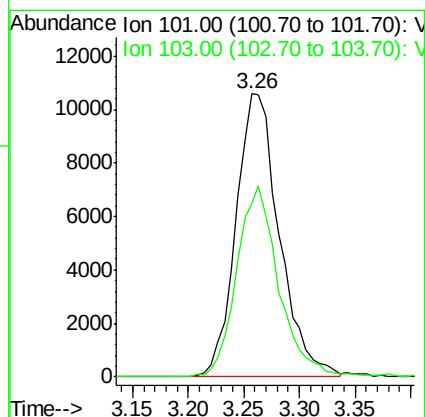
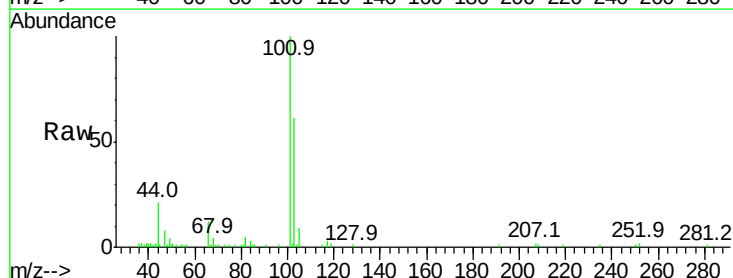
Acq: 19 Sep 2018 15:50

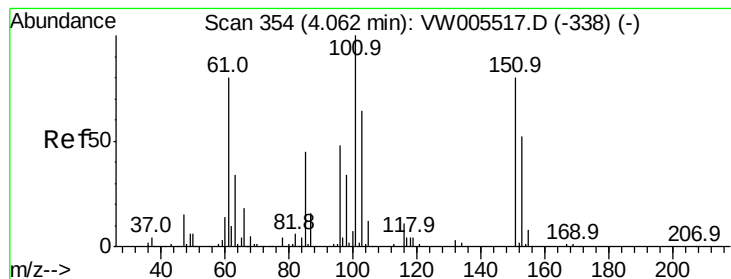
Tgt Ion: 101 Resp: 28607

Ion Ratio Lower Upper

101 100

103 64.9 45.3 84.1





#11

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

Concen: 2.183 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD00592

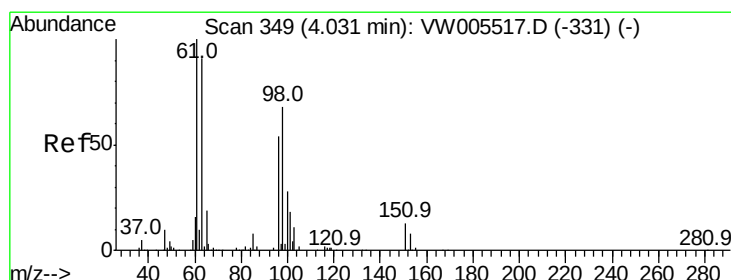
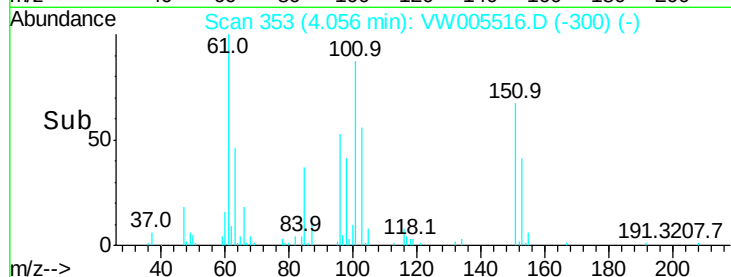
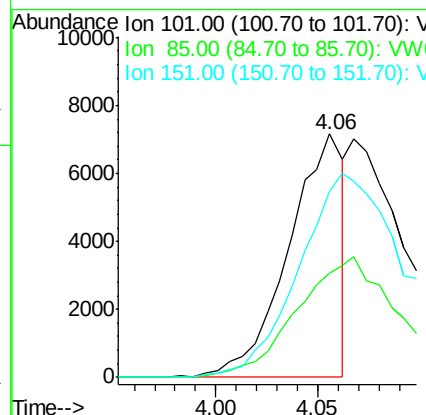
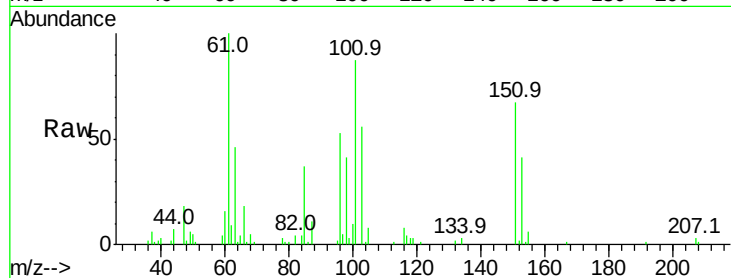
Tgt Ion:101 Resp: 13498

Ion Ratio Lower Upper

101 100

85 94.4 34.7 52.1#

151 161.7 61.1 91.7#



#12

1,1-Dichloroethene

Concen: 5.045 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

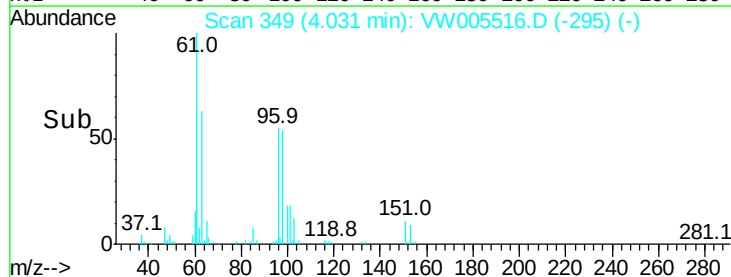
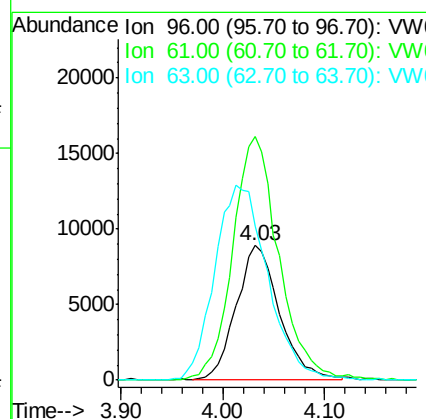
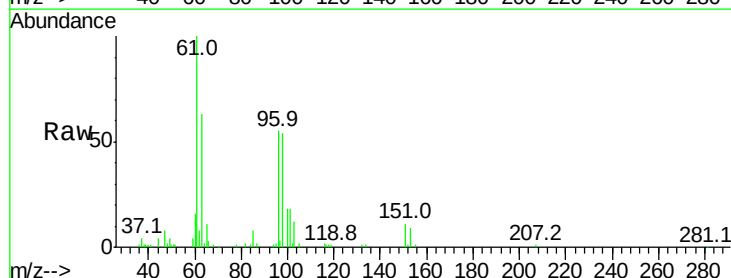
Tgt Ion: 96 Resp: 26378

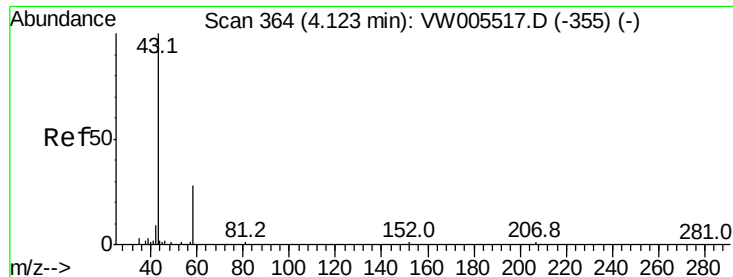
Ion Ratio Lower Upper

96 100

61 181.2 129.5 240.5

63 114.8 117.5 218.3#





#13

Acetone

Concen: 11.635 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

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ClientSampleId :

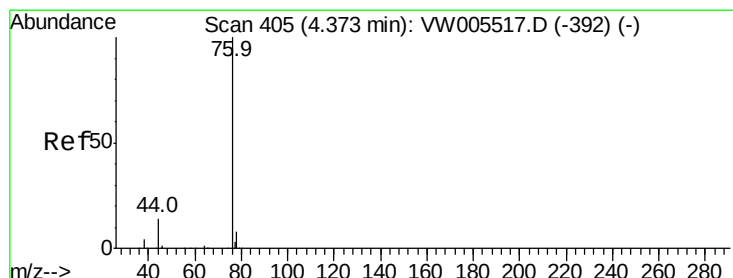
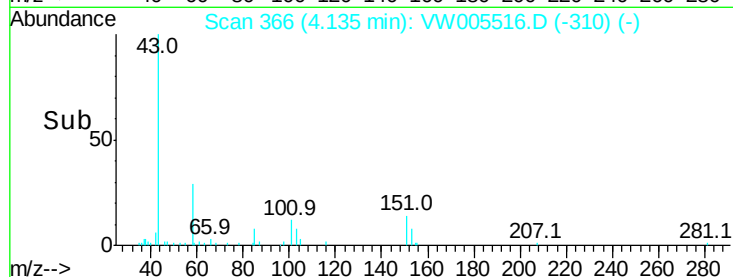
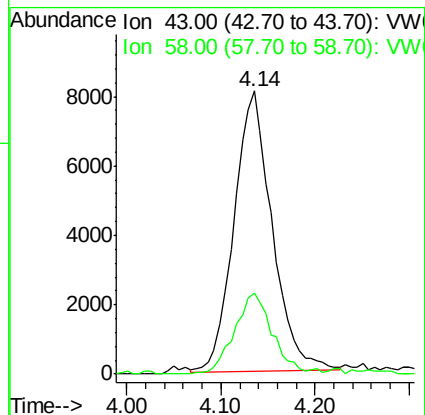
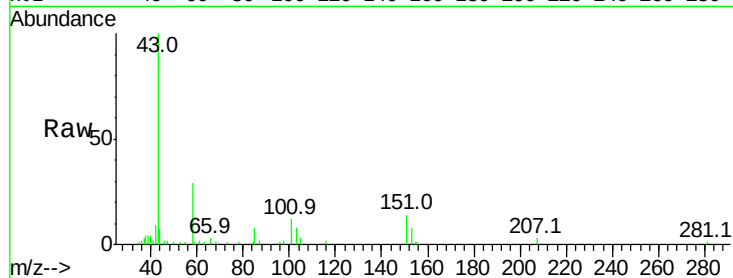
VSTD00592

Tgt Ion: 43 Resp: 22815

Ion Ratio Lower Upper

43 100

58 26.6 0.0 59.2



#14

Carbon disulfide

Concen: 3.951 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW005516.D

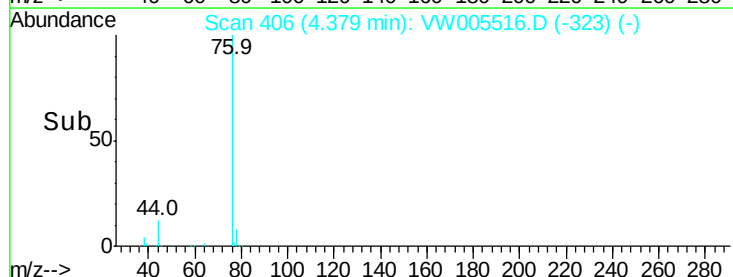
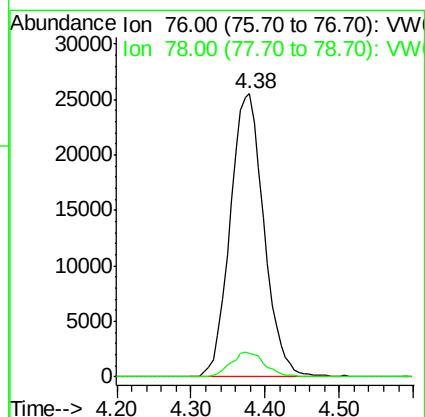
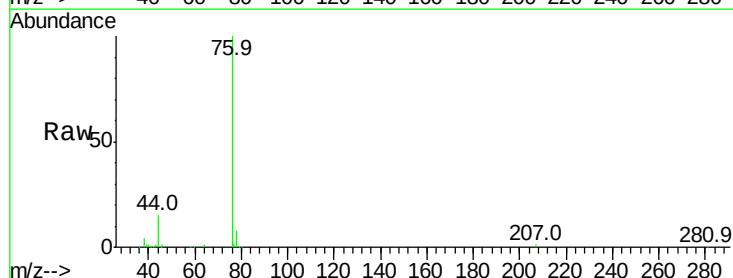
Acq: 19 Sep 2018 15:50

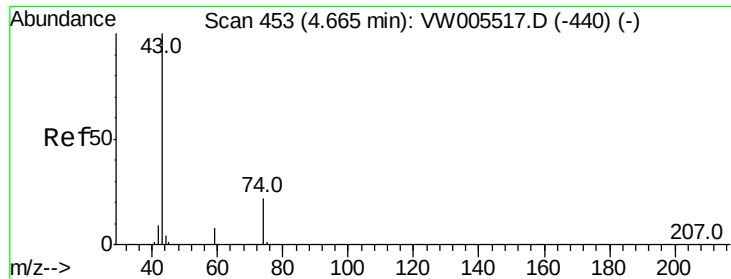
Tgt Ion: 76 Resp: 81100

Ion Ratio Lower Upper

76 100

78 8.5 6.7 10.1

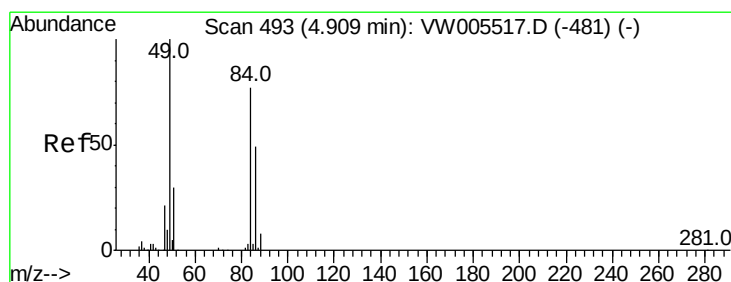
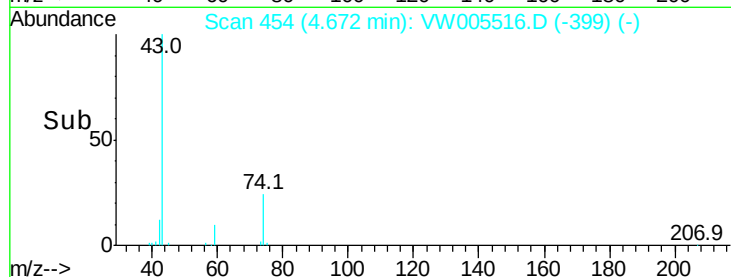
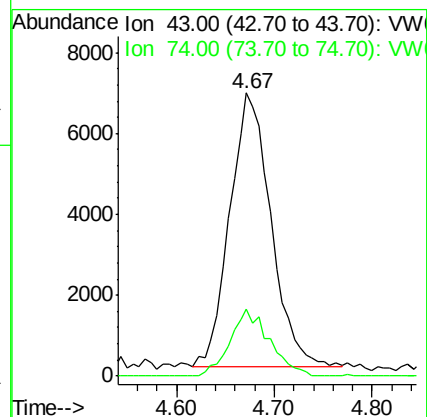
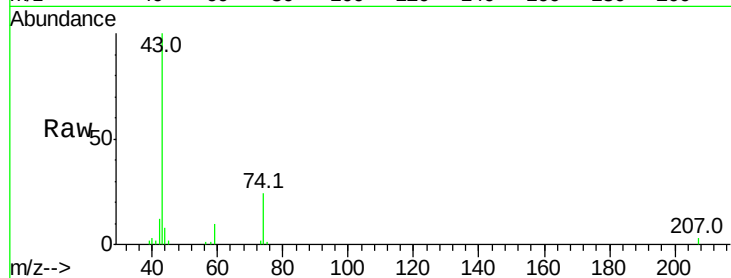




#15
Methyl Acetate
Concen: 4.543 ug/L
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW005516.D
Acq: 19 Sep 2018 15:50

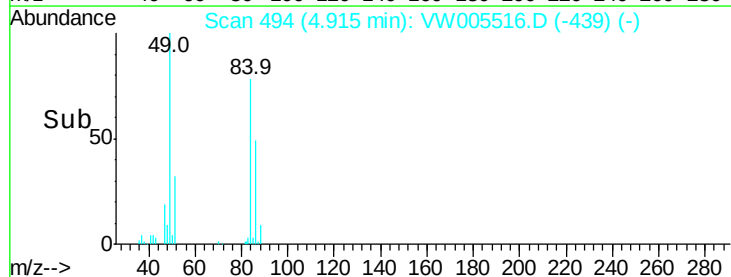
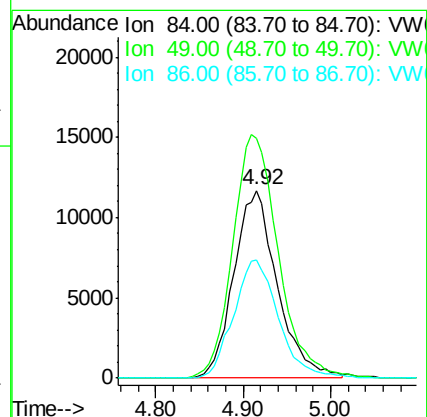
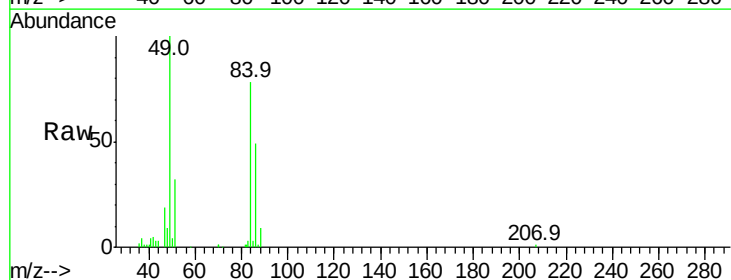
Instrument :
MSVOA_W
ClientSampleId :
VSTD00592

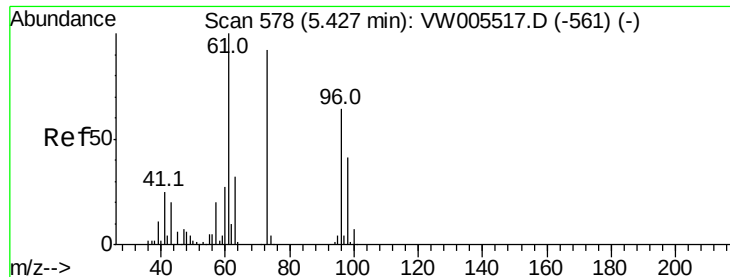
Tgt Ion: 43 Resp: 19654
Ion Ratio Lower Upper
43 100
74 23.5 17.3 25.9



#16
Methylene chloride
Concen: 4.431 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW005516.D
Acq: 19 Sep 2018 15:50

Tgt Ion: 84 Resp: 40431
Ion Ratio Lower Upper
84 100
49 128.0 91.5 169.9
86 62.7 44.8 83.2





#17

Methyl tert-butyl Ether

Concen: 3.106 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

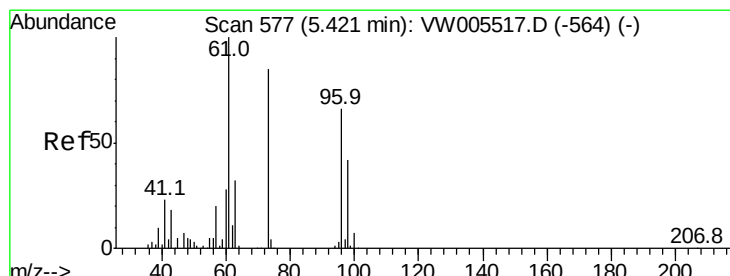
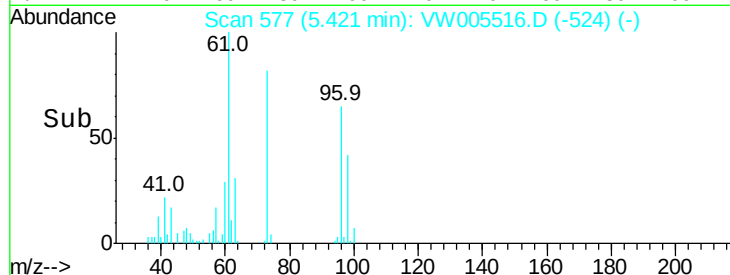
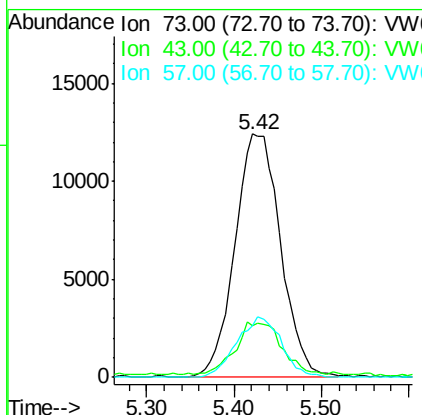
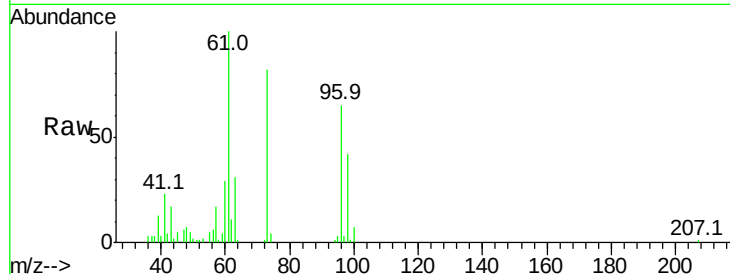
Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :
MSVOA_W
ClientSampleId :
VSTD00592

Tgt Ion: 73 Resp: 45087

Ion	Ratio	Lower	Upper
73	100		
43	9.0	17.6	26.4#
57	24.2	18.4	27.6



#18

trans-1,2-Dichloroethene

Concen: 5.080 ug/L

RT: 5.42 min Scan# 577

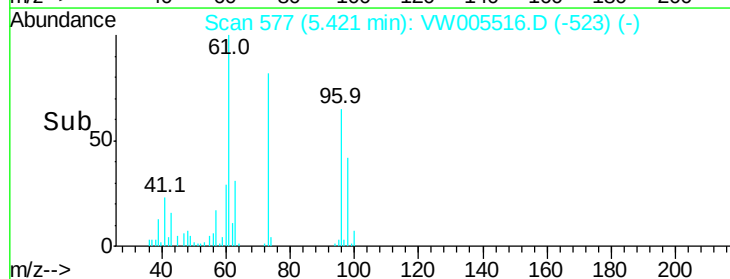
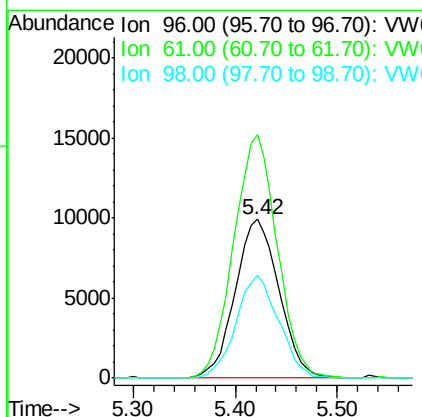
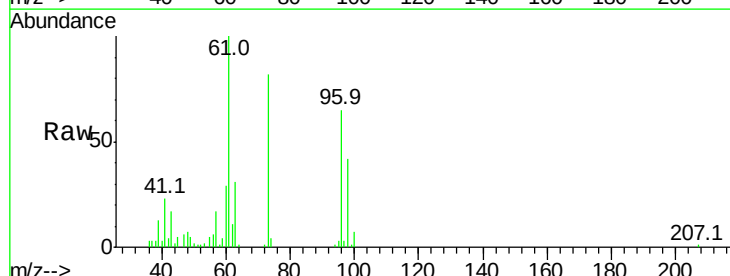
Delta R.T. 0.00 min

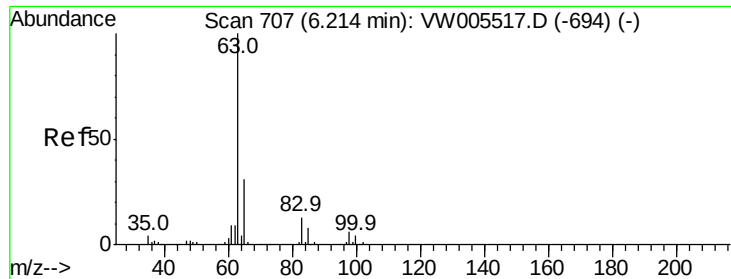
Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Tgt Ion: 96 Resp: 29660

Ion	Ratio	Lower	Upper
96	100		
61	153.2	105.4	195.8
98	64.9	44.1	81.9

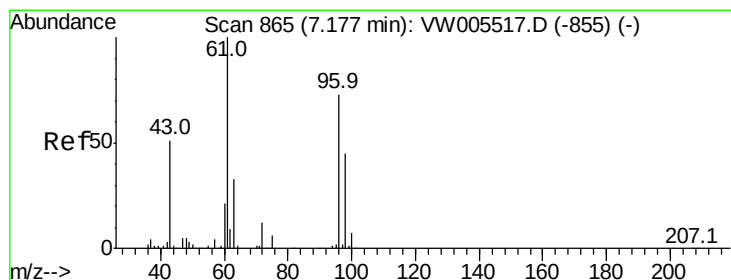
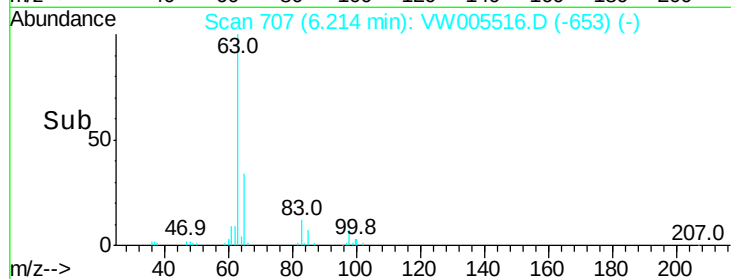
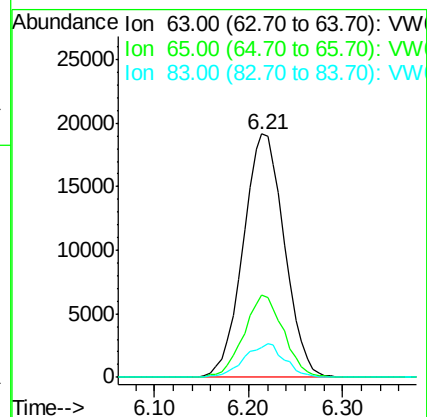
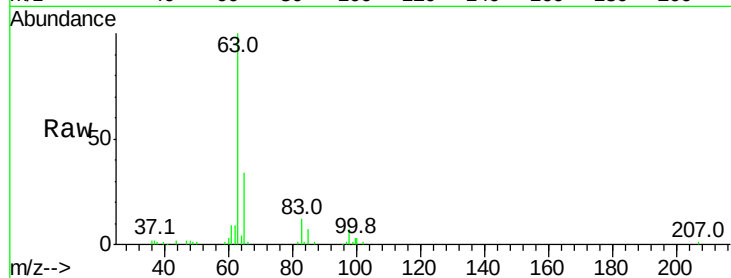




#19
 1,1-Dichloroethane
 Concen: 5.488 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VW005516.D
 Acq: 19 Sep 2018 15:50

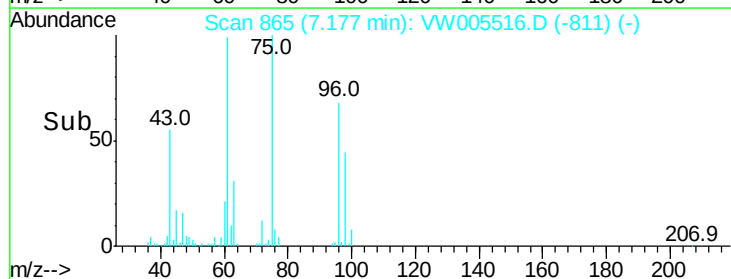
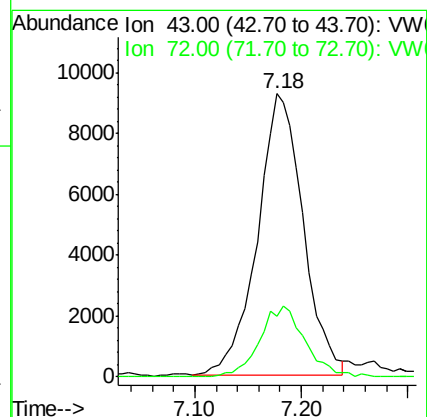
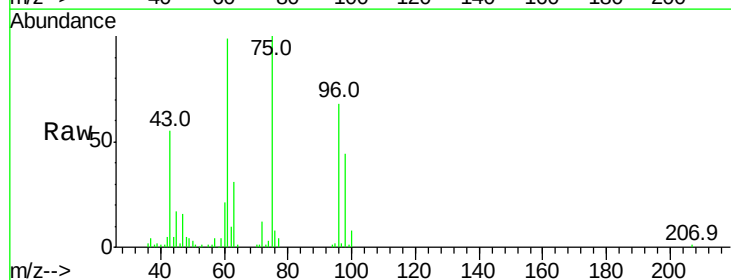
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00592

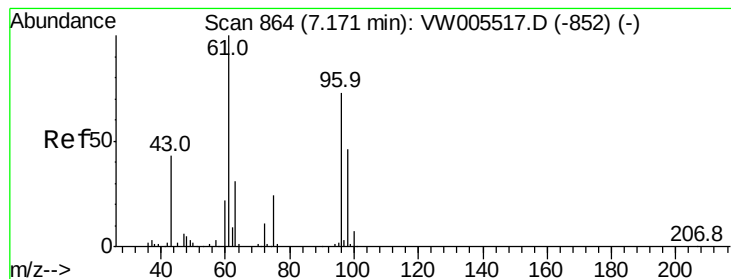
Tgt Ion	Ratio	Lower	Upper
63	100		
65	33.8	21.4	39.8
83	12.4	8.9	16.5



#21
 2-Butanone
 Concen: 9.171 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.00 min
 Lab File: VW005516.D
 Acq: 19 Sep 2018 15:50

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.4	12.6	37.6





#22

cis-1,2-Dichloroethene

Concen: 5.316 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampled :

VSTD00592

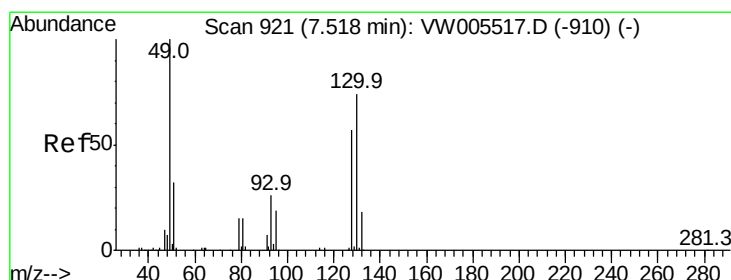
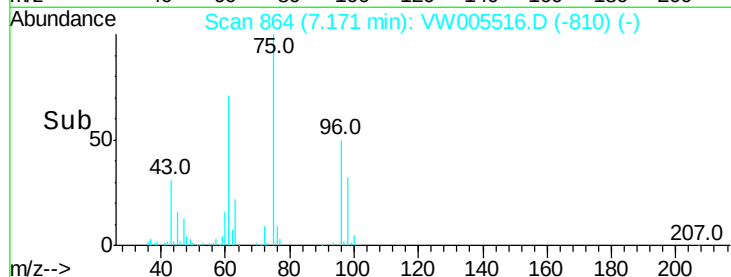
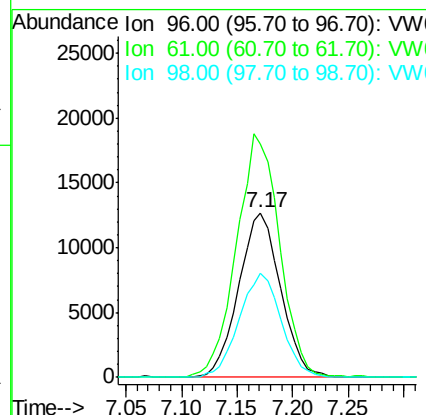
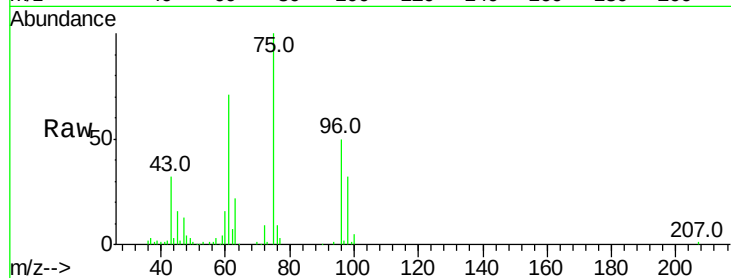
Tgt Ion: 96 Resp: 33128

Ion Ratio Lower Upper

96 100

61 142.0 96.5 179.1

98 63.1 44.1 81.9



#23

Bromochloromethane

Concen: 5.217 ug/L

RT: 7.51 min Scan# 920

Delta R.T. -0.01 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Tgt Ion: 128 Resp: 15151

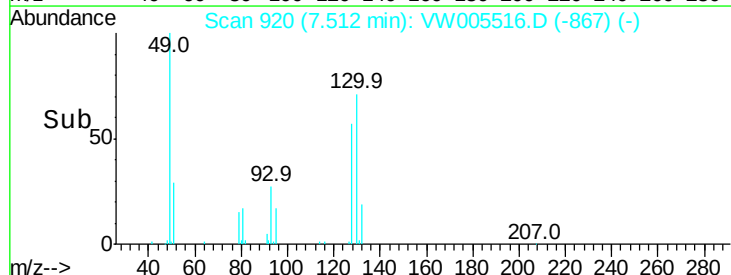
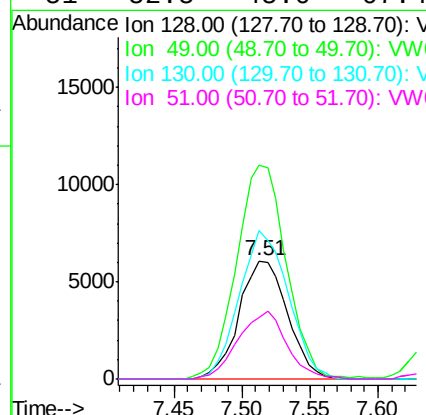
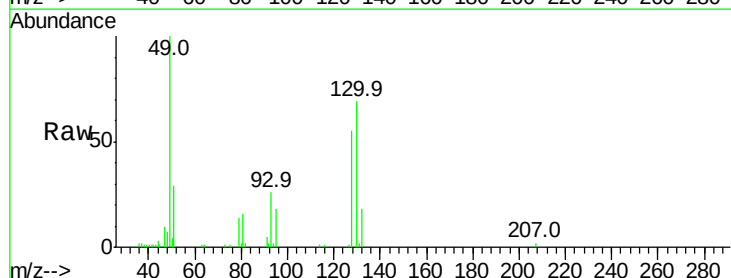
Ion Ratio Lower Upper

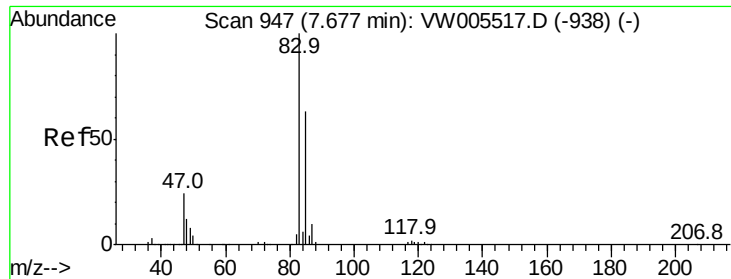
128 100

49 181.2 122.0 226.6

130 125.8 89.9 167.0

51 52.5 45.0 67.4

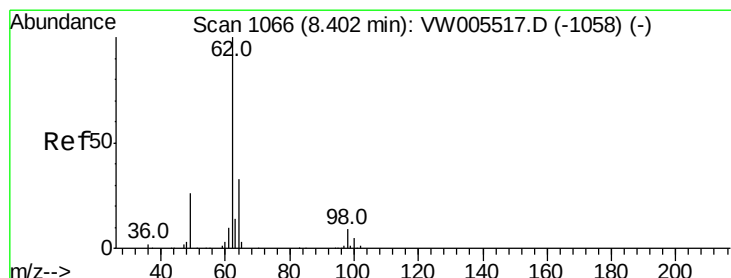
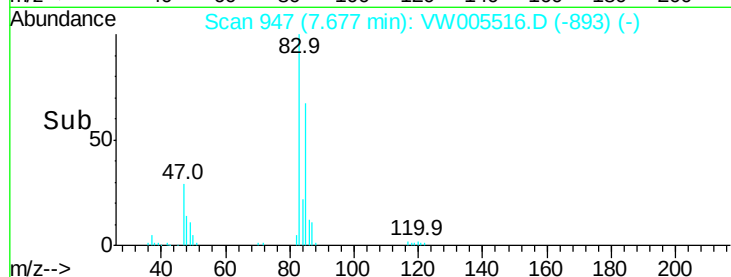
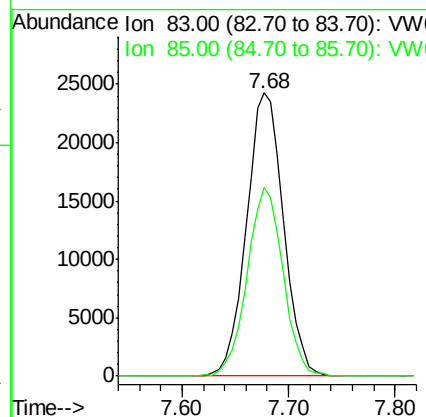
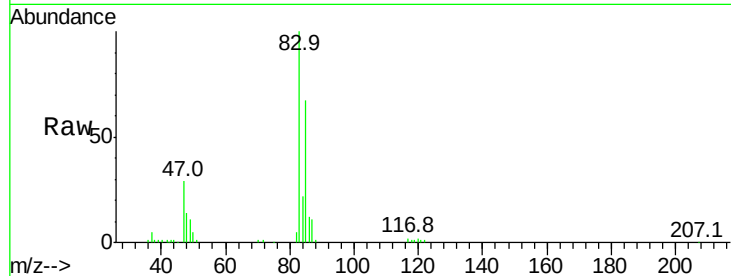




#25
Chloroform
Concen: 5.271 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW005516.D
Acq: 19 Sep 2018 15:50

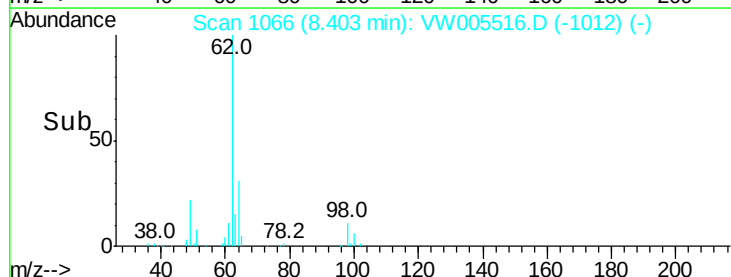
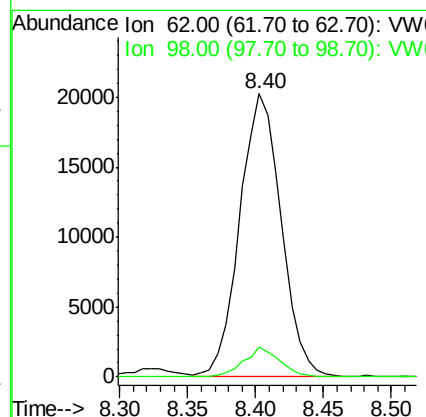
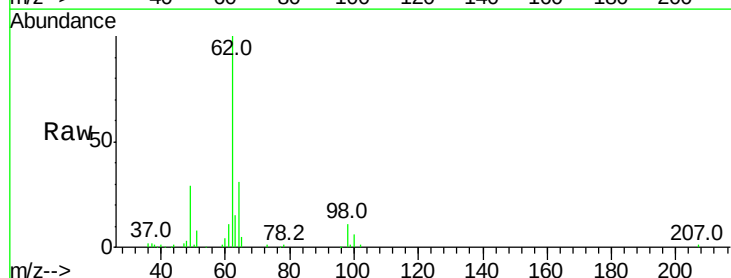
Instrument :
MSVOA_W
ClientSampled :
VSTD00592

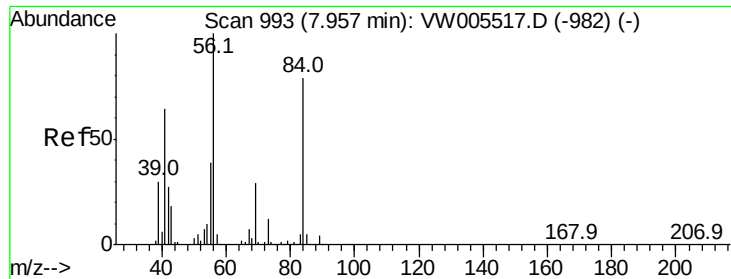
Tgt Ion: 83 Resp: 59147
Ion Ratio Lower Upper
83 100
85 64.6 46.0 85.4



#27
1,2-Dichloroethane
Concen: 4.958 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW005516.D
Acq: 19 Sep 2018 15:50

Tgt Ion: 62 Resp: 43180
Ion Ratio Lower Upper
62 100
98 10.8 6.8 10.2#

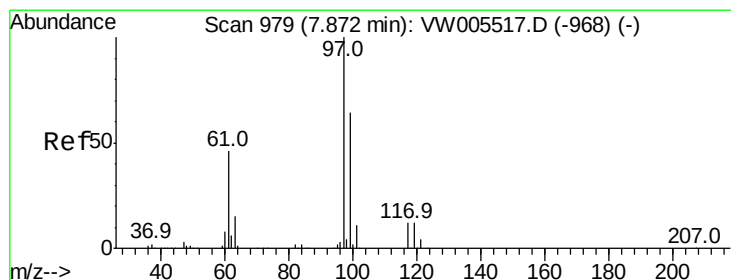
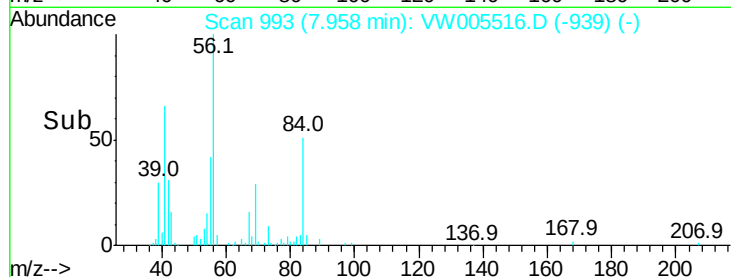
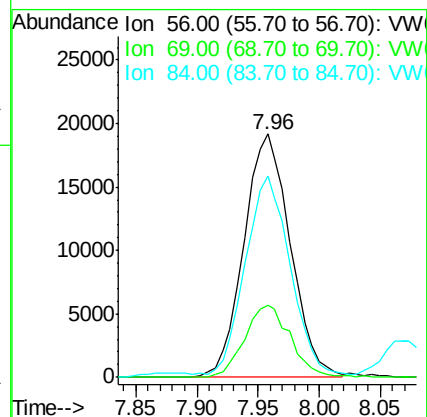
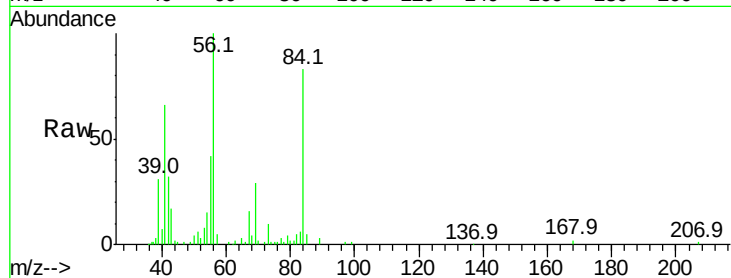




#30
Cyclohexane
Concen: 4.899 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: VW005516.D
Acq: 19 Sep 2018 15:50

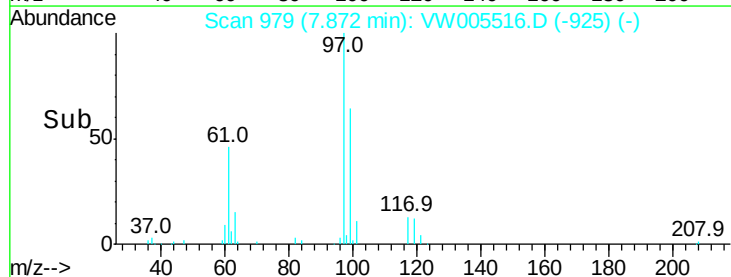
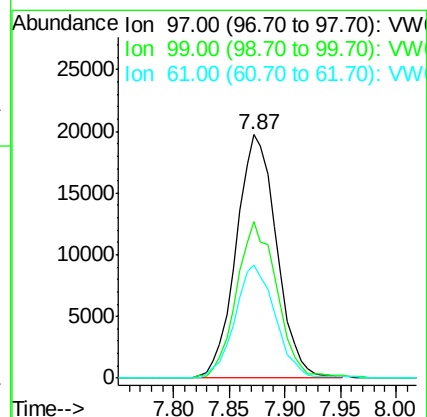
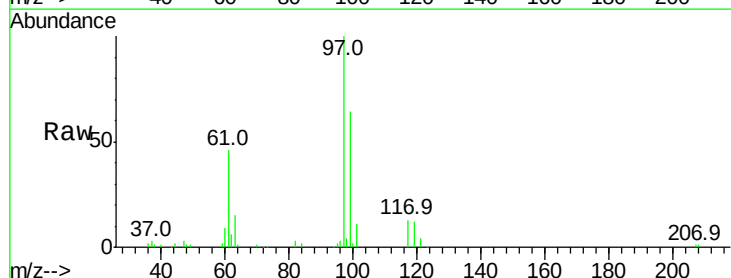
Instrument :
MSVOA_W
ClientSampleId :
VSTD00592

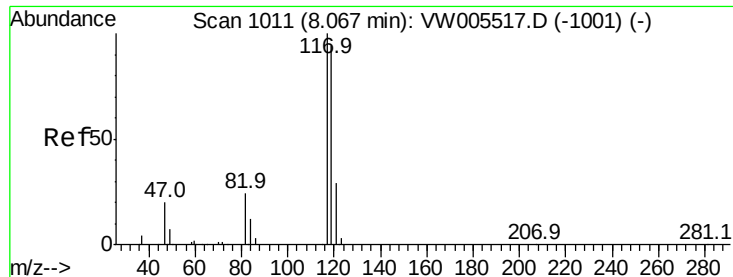
Tgt Ion: 56 Resp: 50514
Ion Ratio Lower Upper
56 100
69 29.1 23.6 35.4
84 81.2 64.6 96.8



#31
1,1,1-Trichloroethane
Concen: 4.791 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.00 min
Lab File: VW005516.D
Acq: 19 Sep 2018 15:50

Tgt Ion: 97 Resp: 49744
Ion Ratio Lower Upper
97 100
99 63.8 51.7 77.5
61 46.2 37.0 55.4





#32

Carbon tetrachloride

Concen: 4.813 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

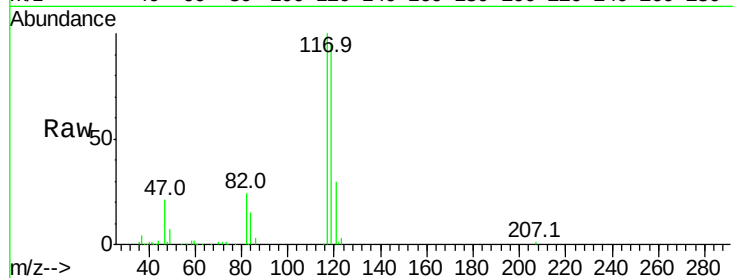
VSTD00592

Tgt Ion:117 Resp: 46361

Ion Ratio Lower Upper

117 100

119 96.3 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

20000

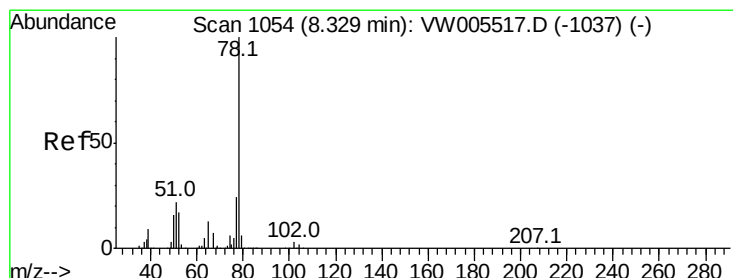
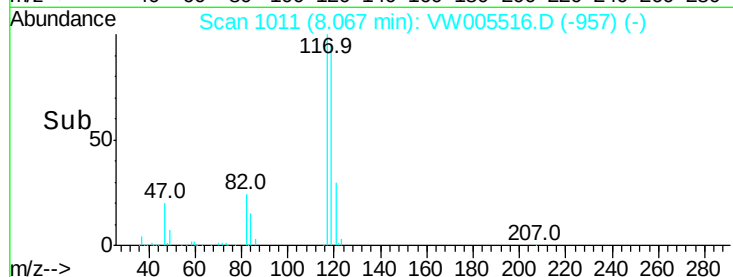
15000

10000

5000

0

Time--> 8.00 8.05 8.10 8.15



#34

Benzene

Concen: 5.087 ug/L

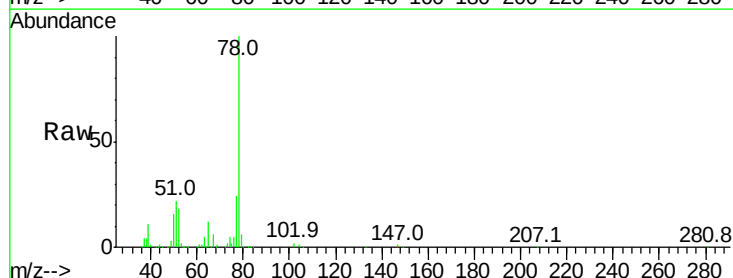
RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Tgt Ion: 78 Resp: 129434



Abundance Ion 78.00 (77.70 to 78.70): VW

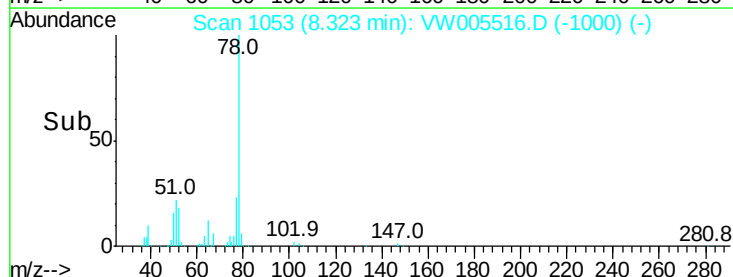
60000

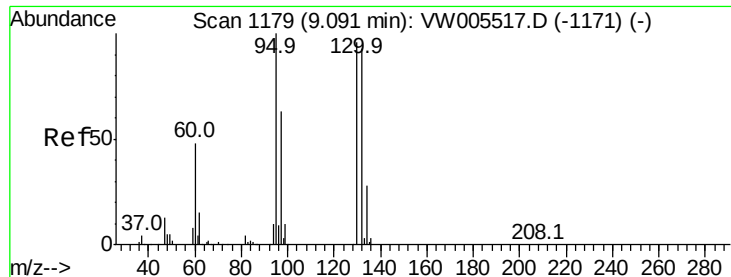
40000

20000

0

Time--> 8.20 8.30 8.40





#35

Trichloroethene

Concen: 4.947 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampled :

VSTD00592

Tgt Ion: 95 Resp: 33405

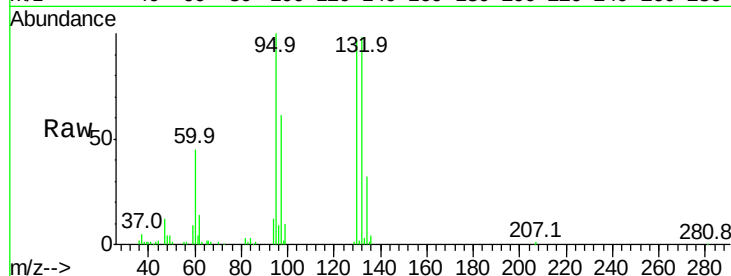
Ion Ratio Lower Upper

95 100

97 63.9 45.0 83.6

132 97.1 66.4 123.2

130 100.9 68.6 127.4



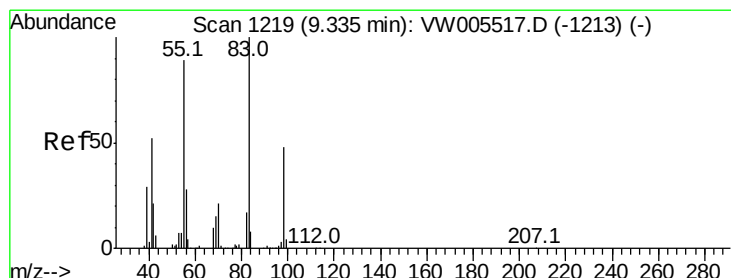
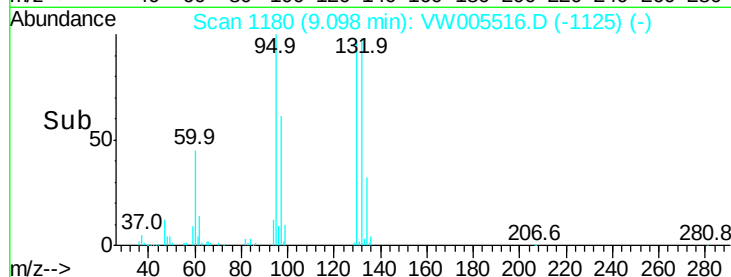
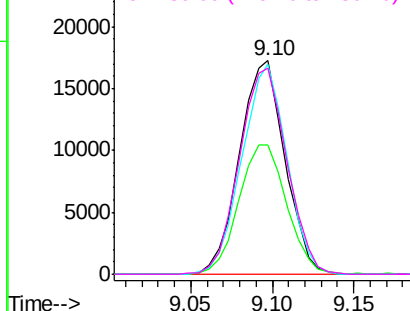
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 4.986 ug/L

RT: 9.34 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

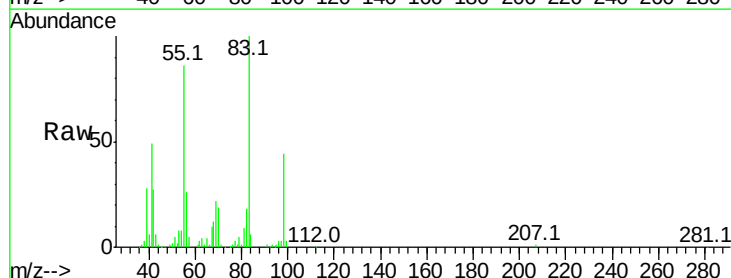
Tgt Ion: 83 Resp: 58447

Ion Ratio Lower Upper

83 100

55 85.1 66.4 99.6

98 44.0 36.3 54.5

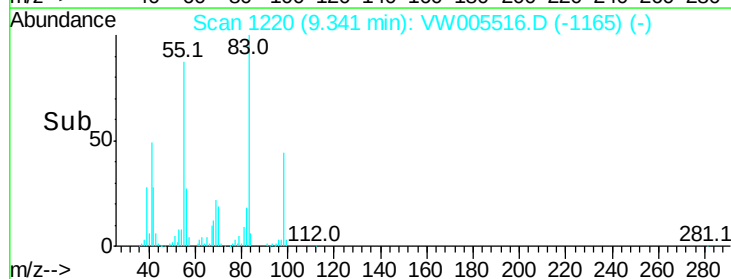
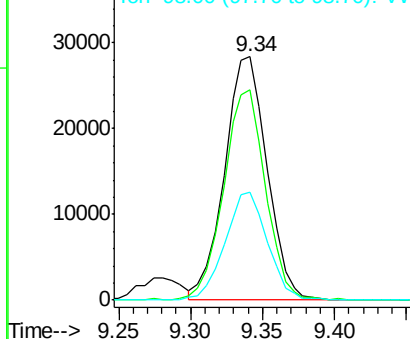


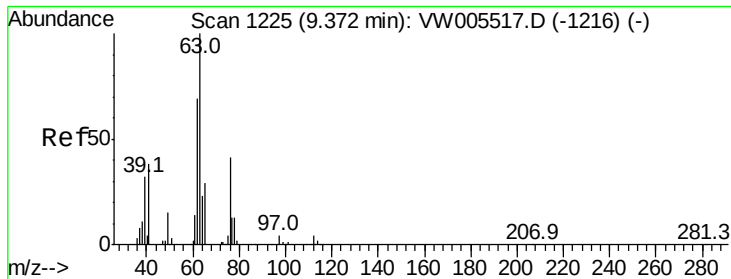
Abundance

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





#40

1,2-Dichloropropane

Concen: 5.407 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

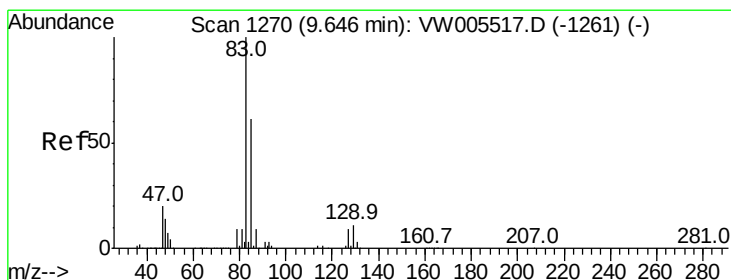
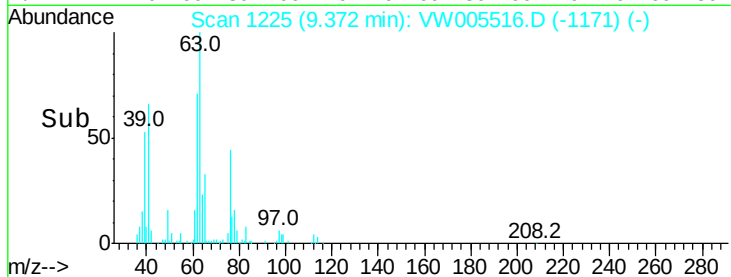
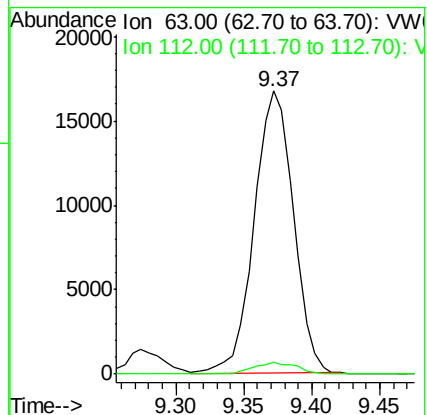
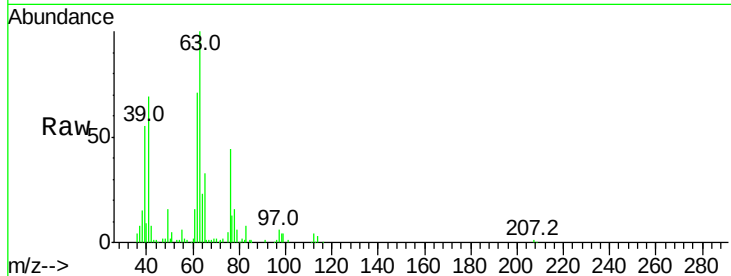
VSTD00592

Tgt Ion: 63 Resp: 33965

Ion Ratio Lower Upper

63 100

112 4.5 3.2 4.8



#41

Bromodichloromethane

Concen: 5.140 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

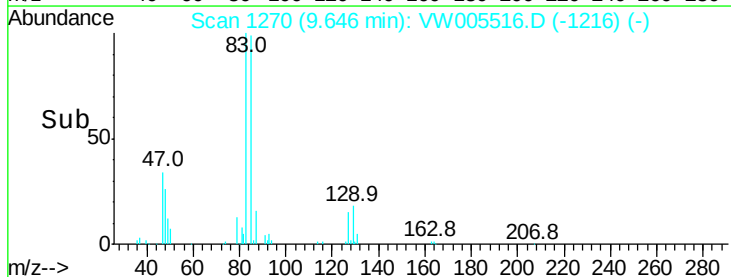
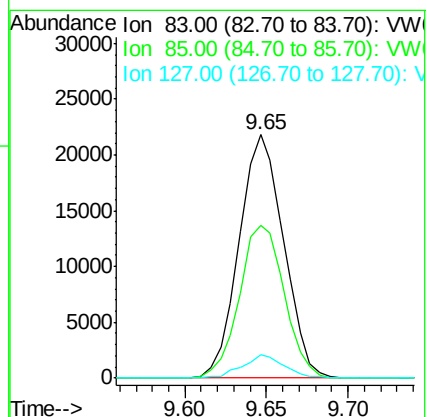
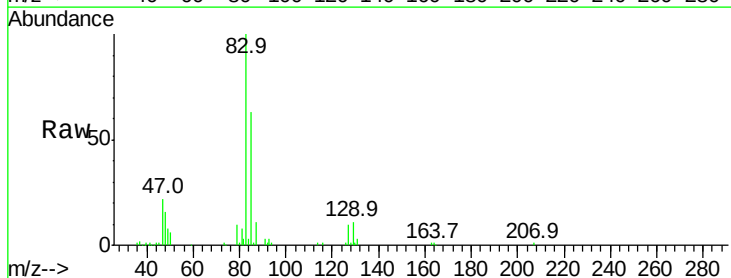
Tgt Ion: 83 Resp: 41383

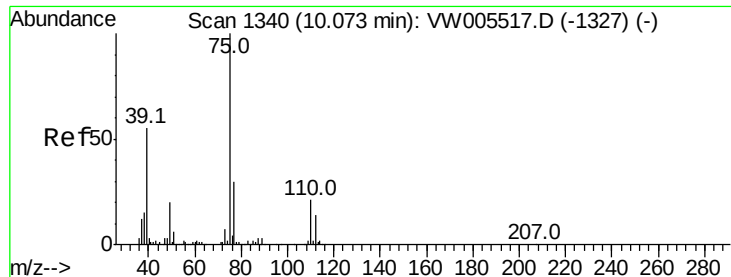
Ion Ratio Lower Upper

83 100

85 62.5 43.0 80.0

127 9.7 6.8 10.2





#42

cis-1,3-Dichloropropene

Concen: 5.117 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.01 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

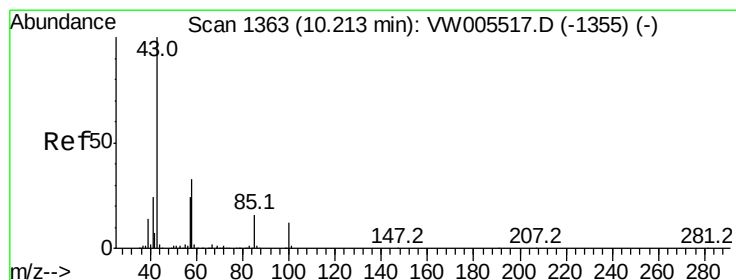
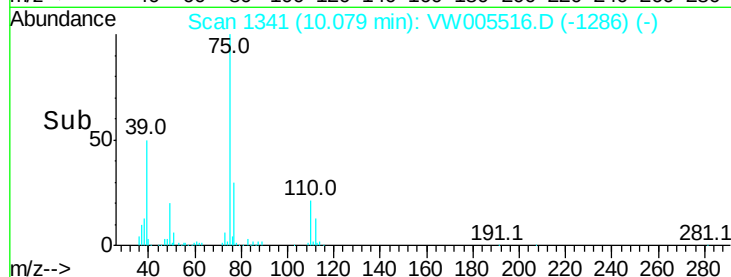
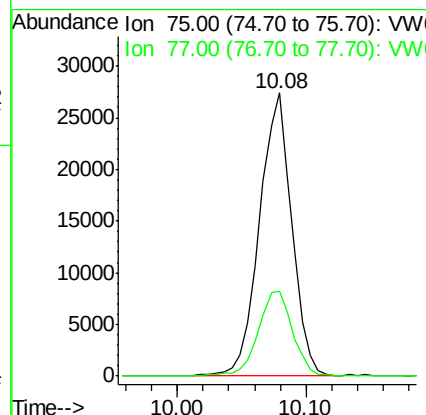
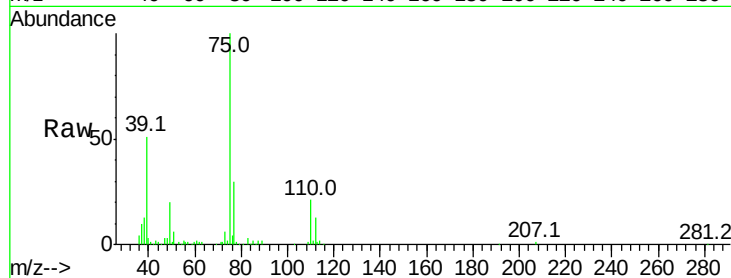
VSTD00592

Tgt Ion: 75 Resp: 47474

Ion Ratio Lower Upper

75 100

77 29.8 21.1 39.1



#43

4-Methyl-2-pentanone

Concen: 8.237 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

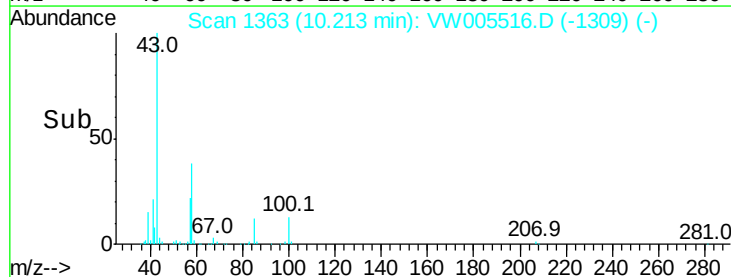
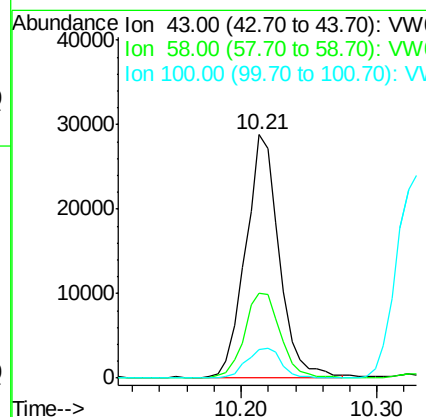
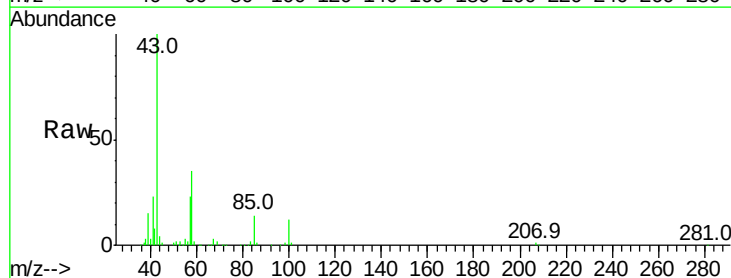
Tgt Ion: 43 Resp: 49465

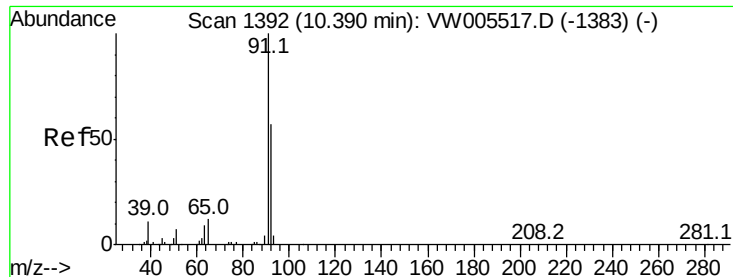
Ion Ratio Lower Upper

43 100

58 37.8 29.2 43.8

100 12.8 10.8 16.2





#44

Toluene

Concen: 4.597 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

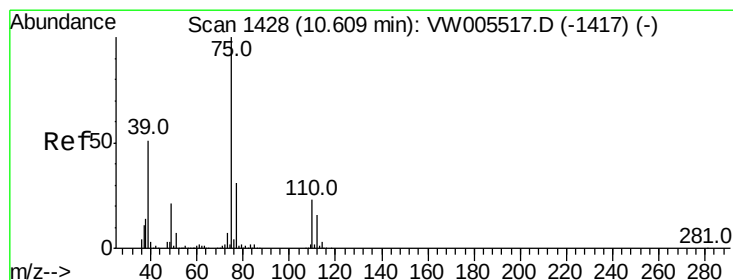
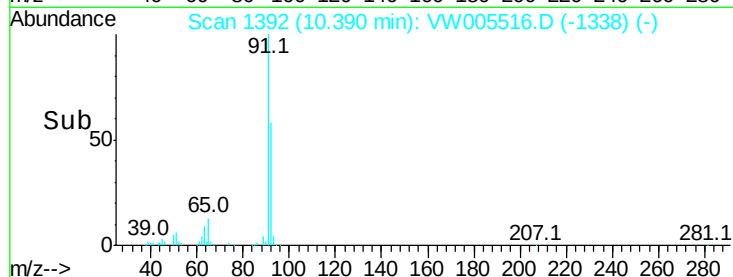
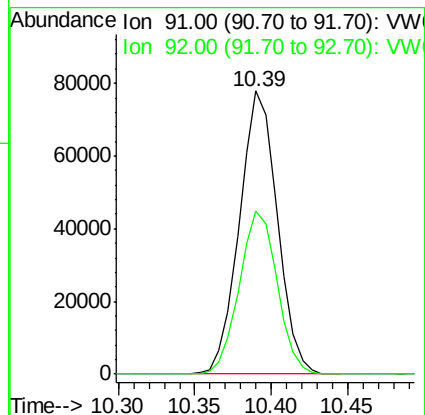
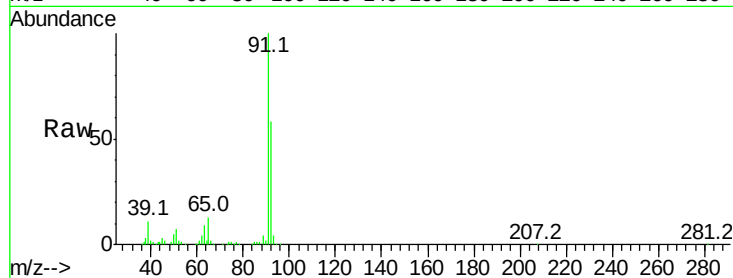
VSTD00592

Tgt Ion: 91 Resp: 134027

Ion Ratio Lower Upper

91 100

92 57.8 40.0 74.2



#45

trans-1,3-Dichloropropene

Concen: 5.034 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW005516.D

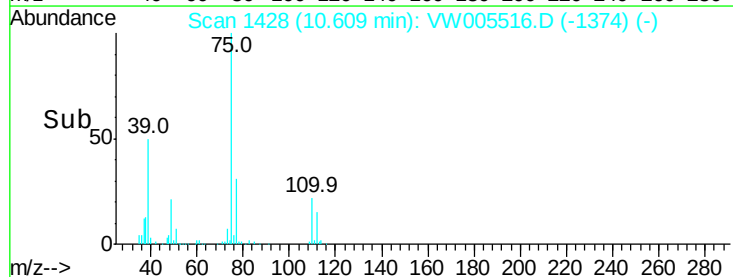
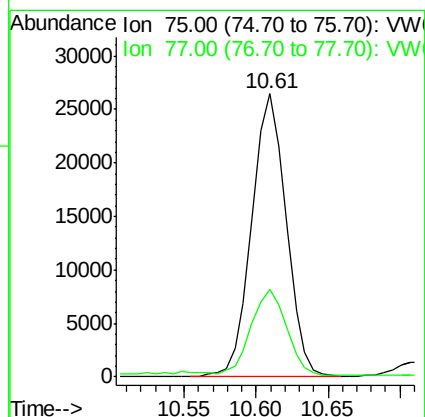
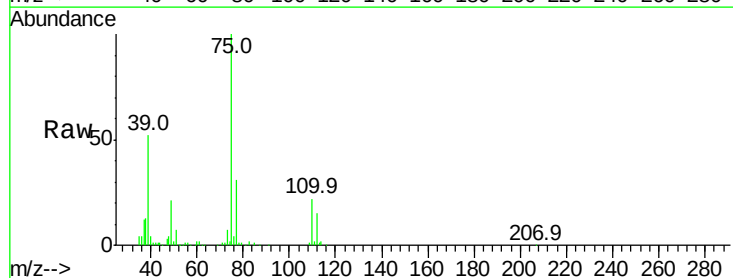
Acq: 19 Sep 2018 15:50

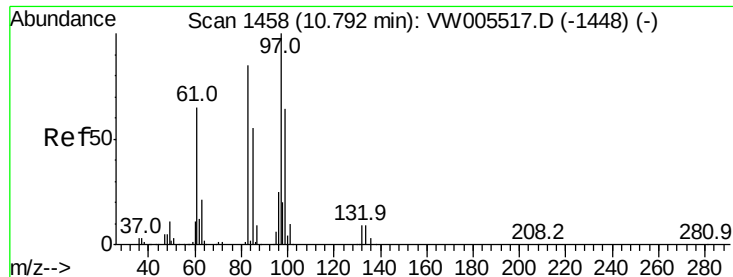
Tgt Ion: 75 Resp: 43760

Ion Ratio Lower Upper

75 100

77 31.1 22.1 41.1





#46

1,1,2-Trichloroethane

Concen: 5.165 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD00592

Tgt Ion: 97 Resp: 25467

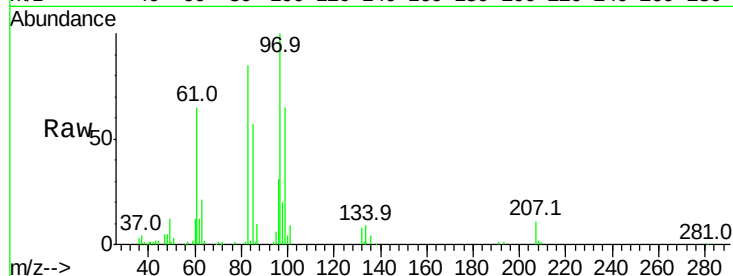
Ion Ratio Lower Upper

97 100

83 85.1 59.5 110.5

85 57.2 38.4 71.2

99 64.6 44.5 82.7

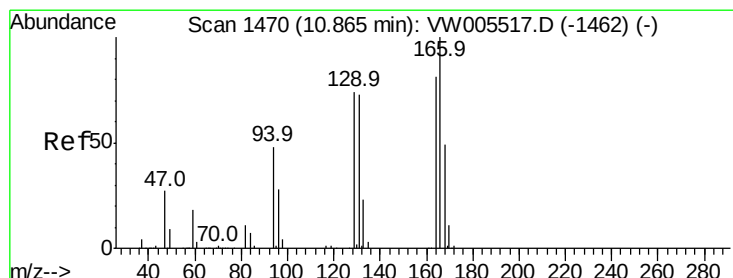
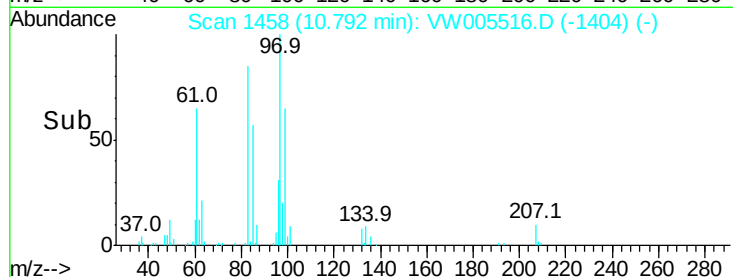
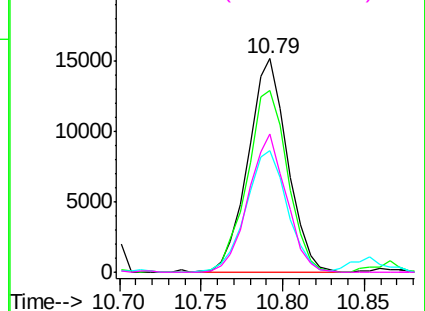


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 4.600 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Tgt Ion: 164 Resp: 28129

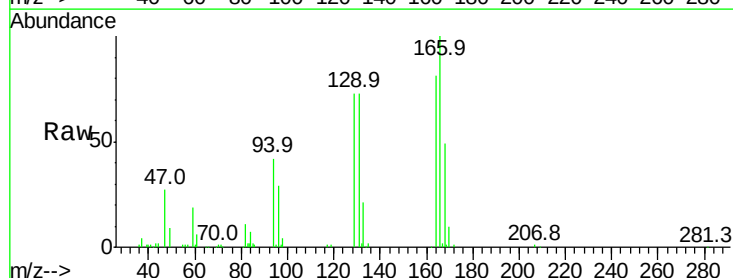
Ion Ratio Lower Upper

164 100

129 90.1 63.7 118.3

131 89.9 63.3 117.5

166 123.7 86.5 160.6

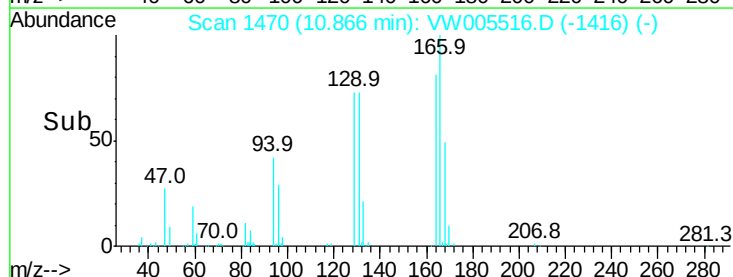
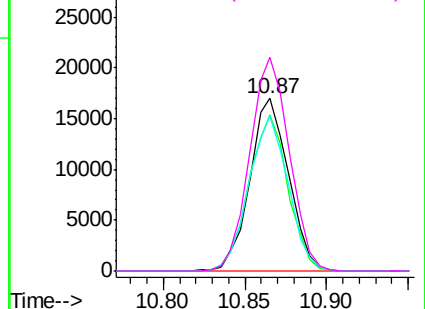


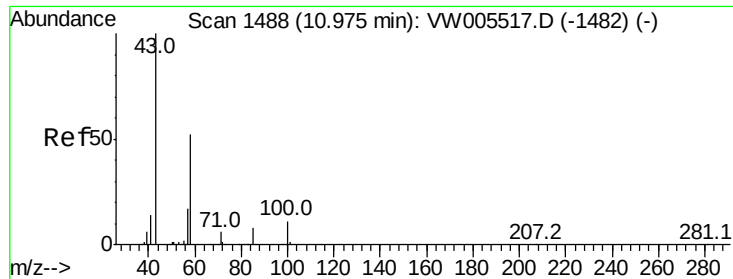
Abundance Ion 164.00 (163.70 to 164.70): V

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

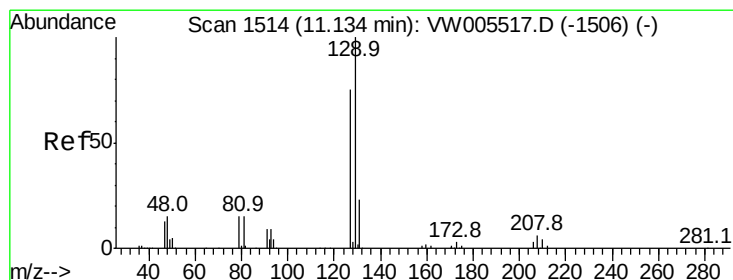
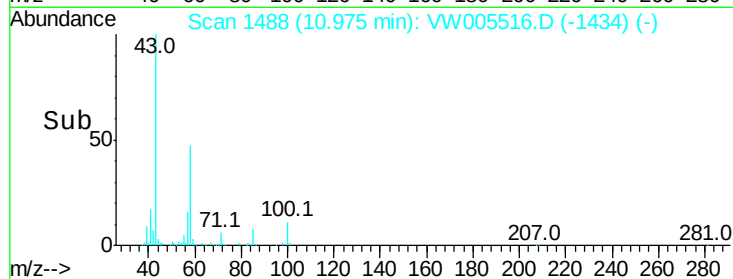
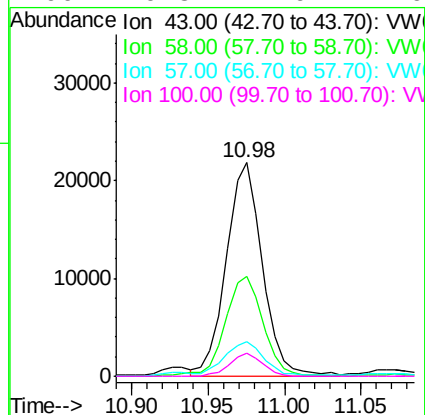
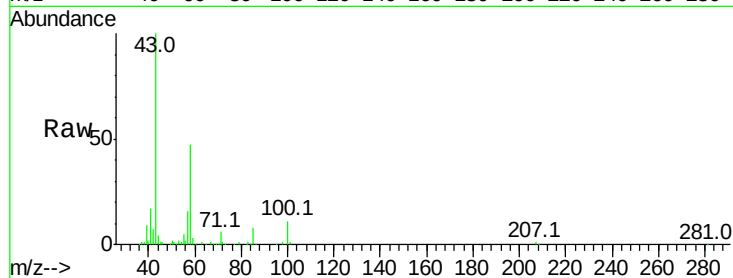




#49
2-Hexanone
Concen: 8.057 ug/L
RT: 10.98 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VW005516.D
Acq: 19 Sep 2018 15:50

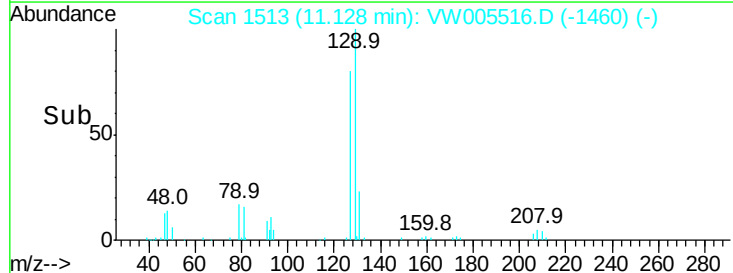
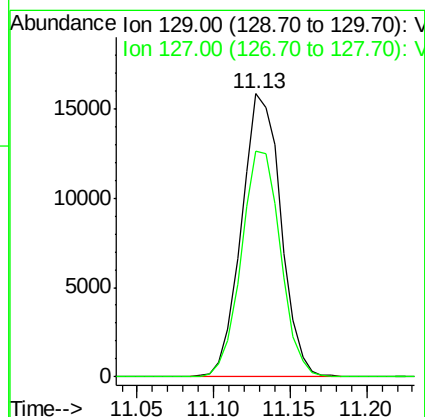
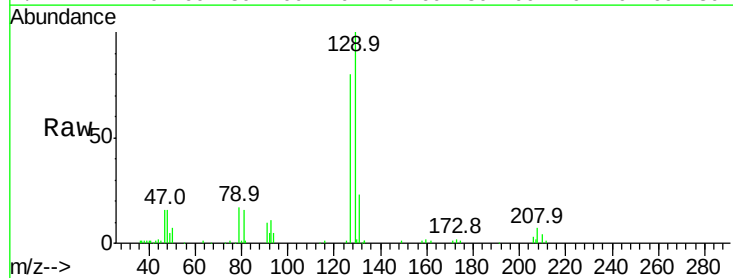
Instrument :
MSVOA_W
ClientSampleId :
VSTD00592

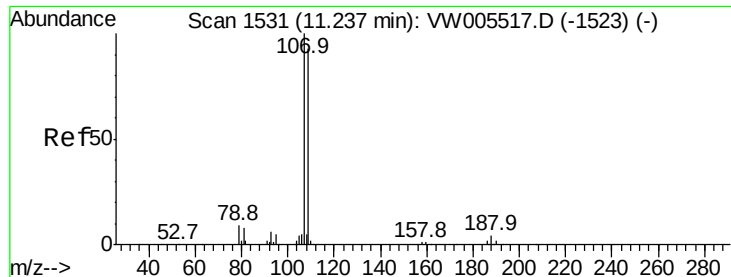
Tgt Ion:	43	Resp:	35569
Ion	Ratio	Lower	Upper
43	100		
58	49.8	40.1	60.1
57	16.6	14.1	21.1
100	9.8	7.9	11.9



#50
Dibromochloromethane
Concen: 4.806 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.01 min
Lab File: VW005516.D
Acq: 19 Sep 2018 15:50

Tgt Ion:	129	Resp:	28310
Ion	Ratio	Lower	Upper
129	100		
127	79.7	52.5	97.5





#51

1,2-Dibromoethane

Concen: 5.070 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD00592

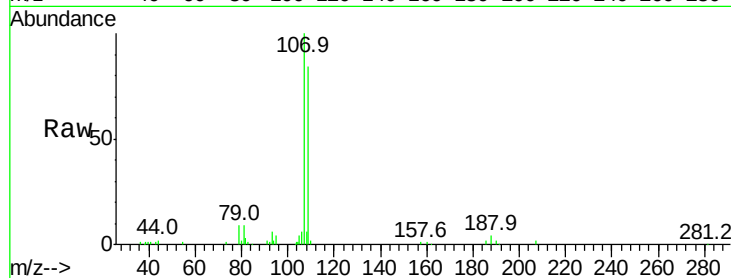
Tgt Ion:107 Resp: 24533

Ion Ratio Lower Upper

107 100

109 84.2 65.4 121.4

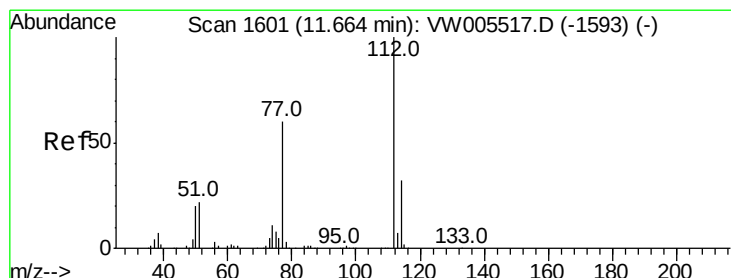
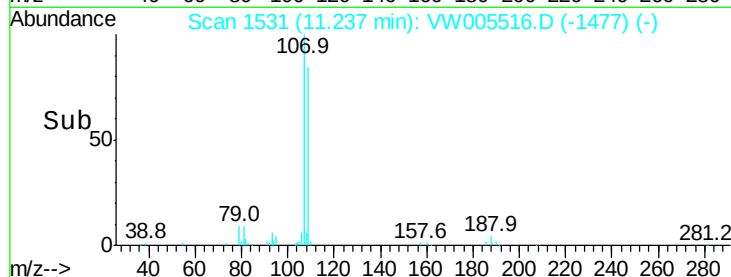
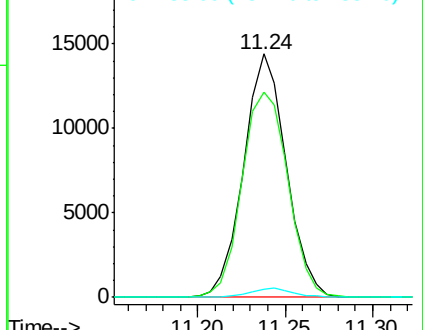
188 3.6 2.9 4.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 4.730 ug/L

RT: 11.66 min Scan# 1601

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

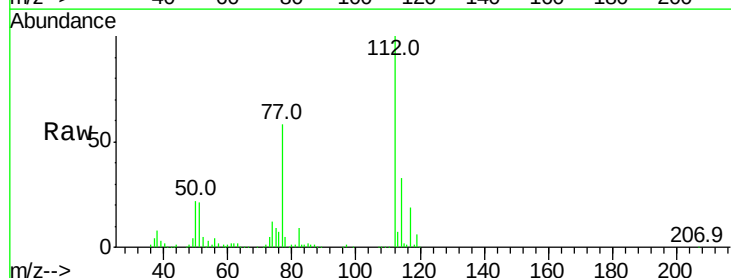
Tgt Ion:112 Resp: 89987

Ion Ratio Lower Upper

112 100

77 58.3 48.5 72.7

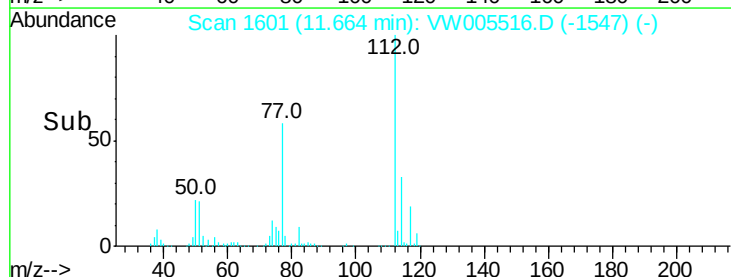
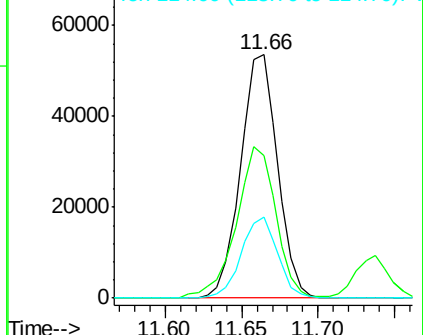
114 33.5 22.5 41.7

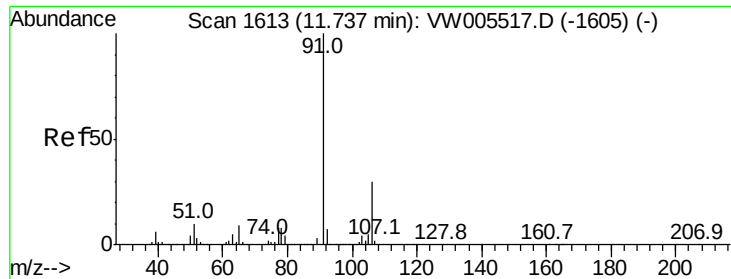


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 4.580 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

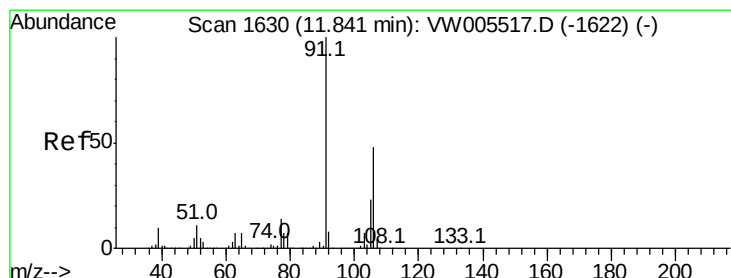
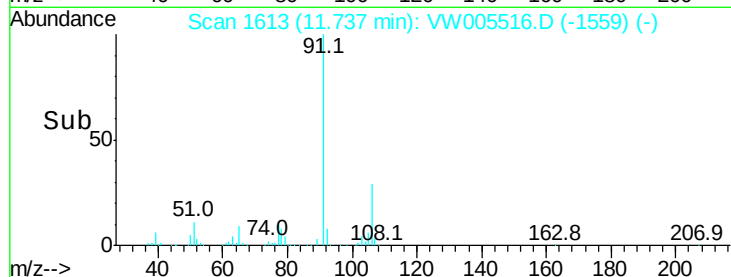
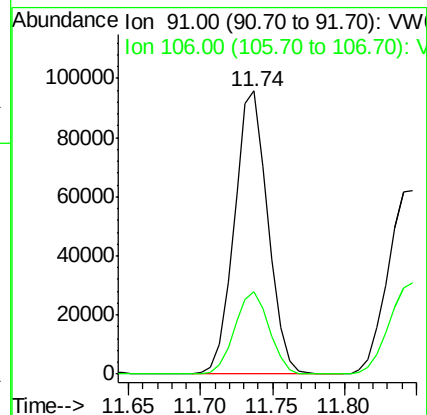
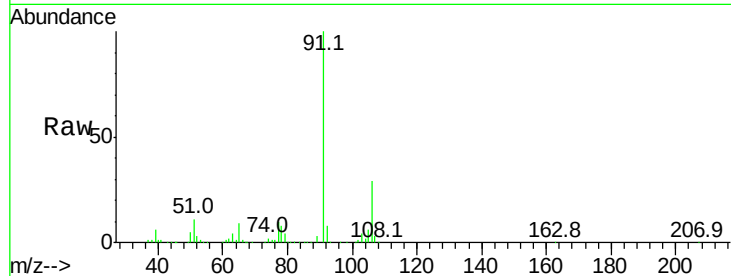
VSTD00592

Tgt Ion: 91 Resp: 155279

Ion Ratio Lower Upper

91 100

106 29.2 20.8 38.6



#54

m,p-Xylene

Concen: 4.489 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW005516.D

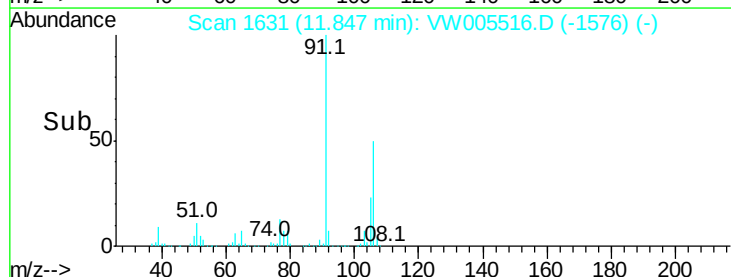
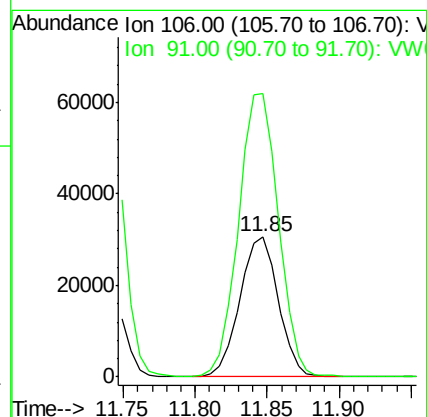
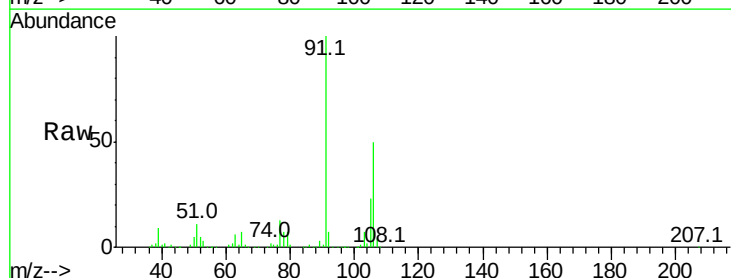
Acq: 19 Sep 2018 15:50

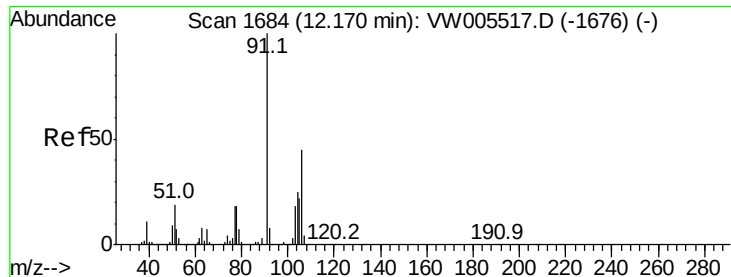
Tgt Ion: 106 Resp: 56993

Ion Ratio Lower Upper

106 100

91 201.3 144.6 268.6





#55

o-xylene

Concen: 4.518 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

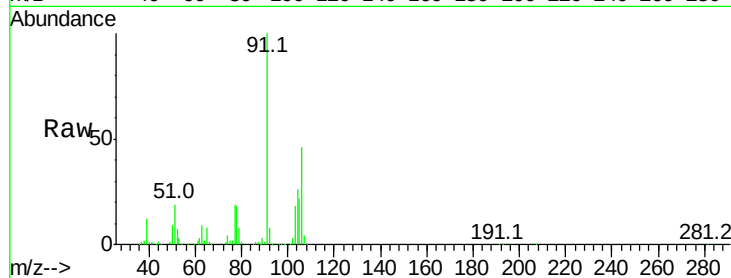
VSTD00592

Tgt Ion:106 Resp: 53866

Ion Ratio Lower Upper

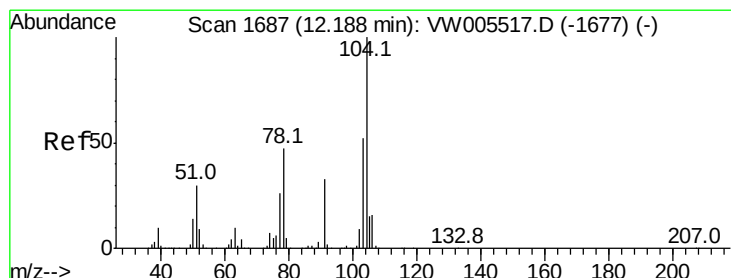
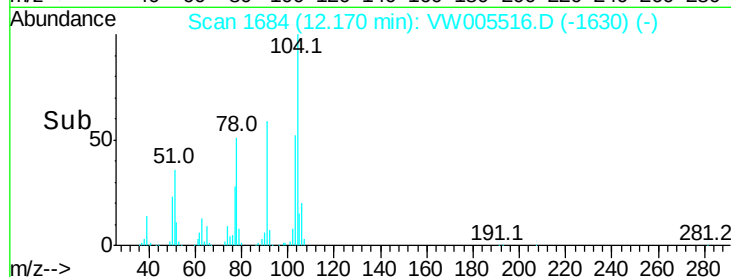
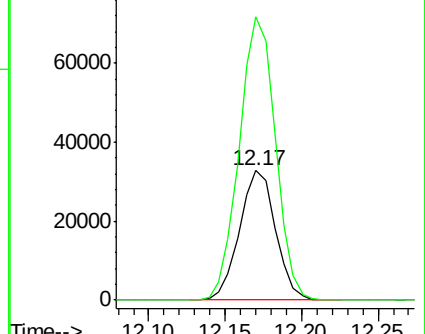
106 100

91 219.1 156.3 290.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 4.510 ug/L

RT: 12.19 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VW005516.D

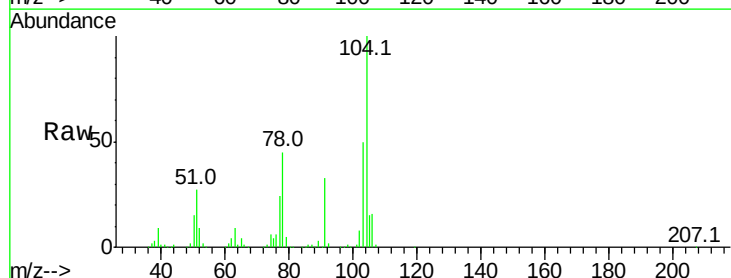
Acq: 19 Sep 2018 15:50

Tgt Ion:104 Resp: 92799

Ion Ratio Lower Upper

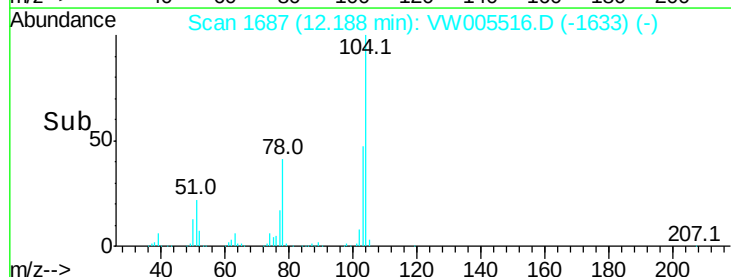
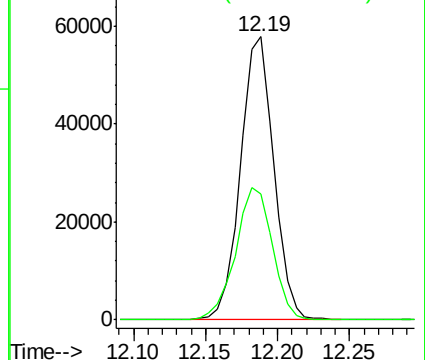
104 100

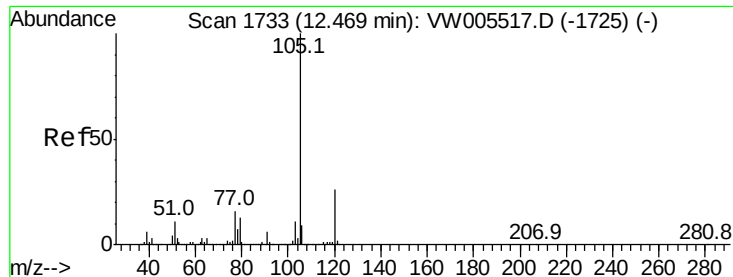
78 44.6 32.6 60.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 4.511 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

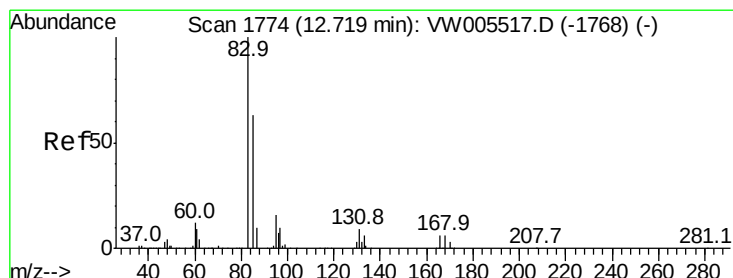
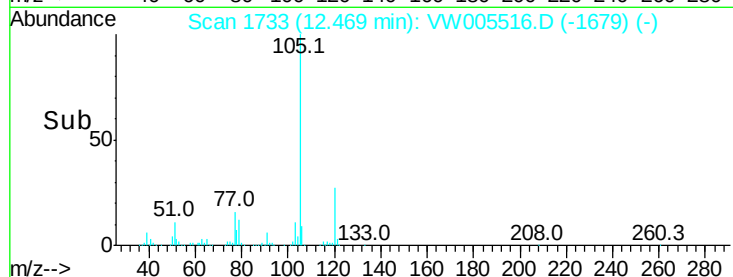
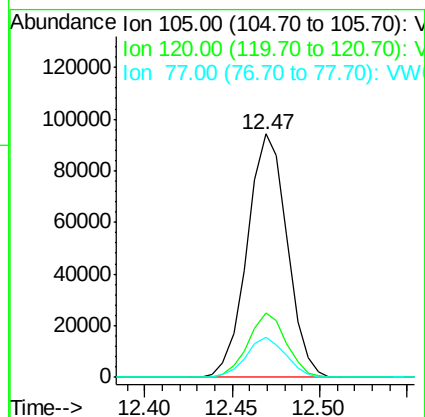
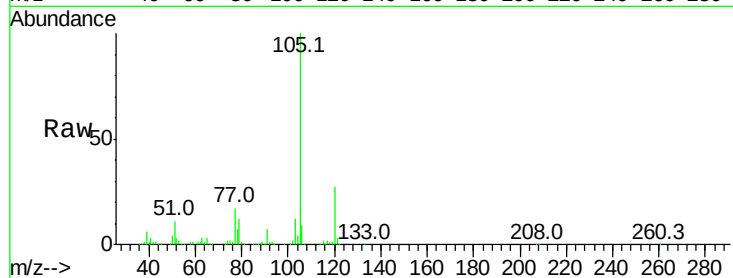
Instrument :

MSVOA_W

ClientSampleId :

VSTD00592

Tgt Ion:	105	Resp:	149395
Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.4	30.6
77	16.4	13.0	19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 5.058 ug/L

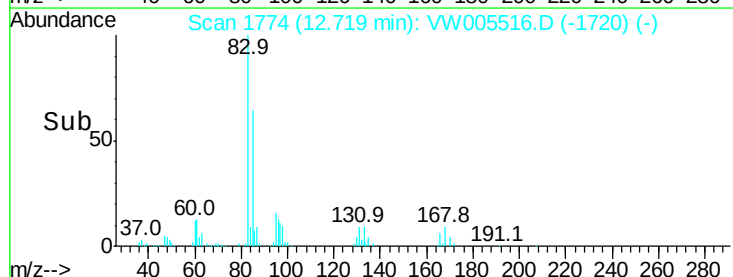
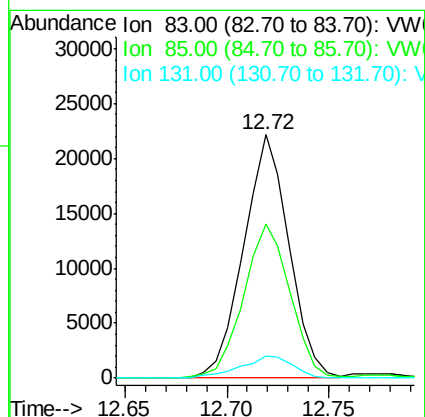
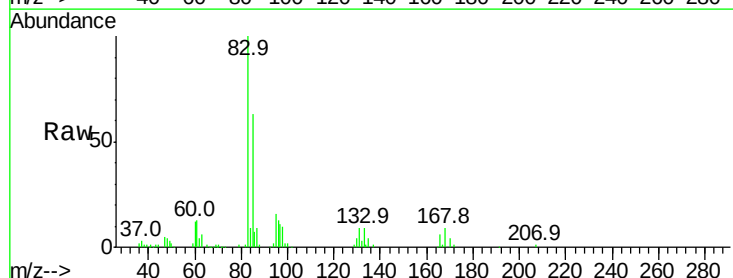
RT: 12.72 min Scan# 1774

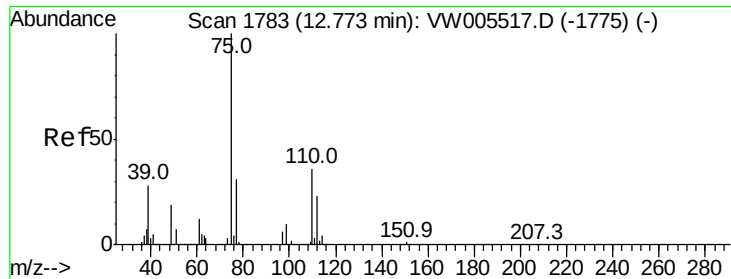
Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Tgt Ion:	83	Resp:	34288
Ion	Ratio	Lower	Upper
83	100		
85	63.3	43.9	81.5
131	9.4	7.9	11.9





#59

1,2,3-Trichloropropane

Concen: 4.579 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

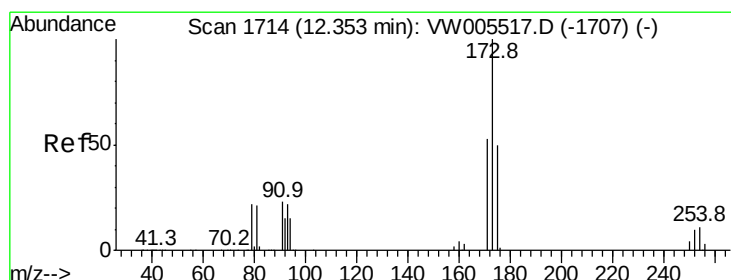
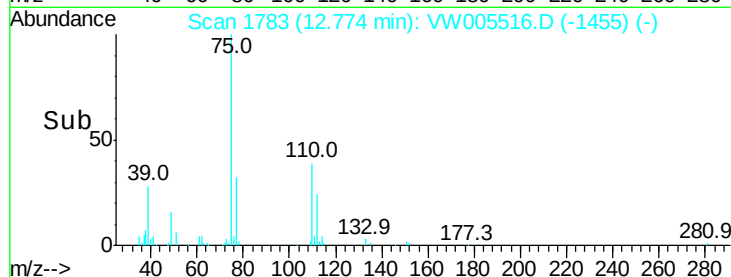
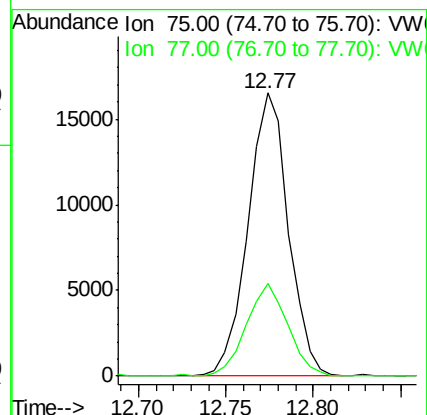
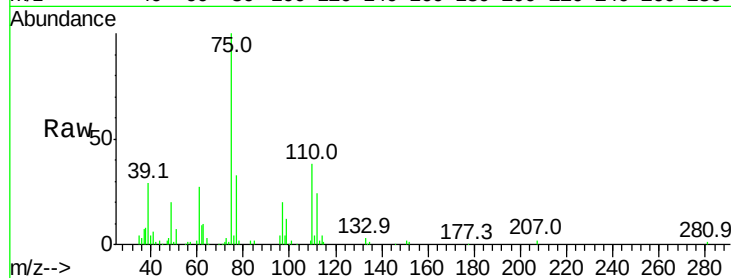
VSTD00592

Tgt Ion: 75 Resp: 26533

Ion Ratio Lower Upper

75 100

77 32.9 25.9 38.9



#62

Bromoform

Concen: 4.848 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

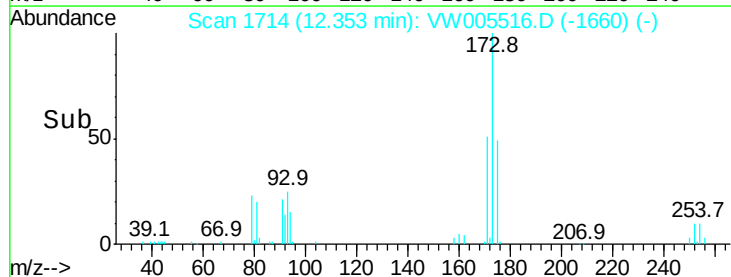
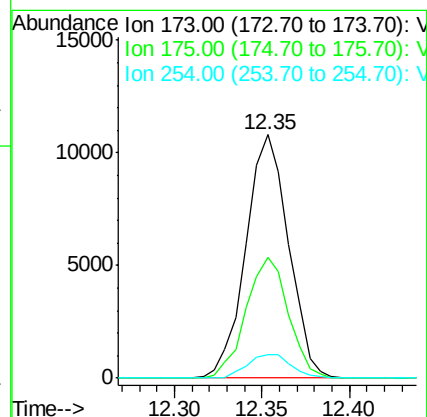
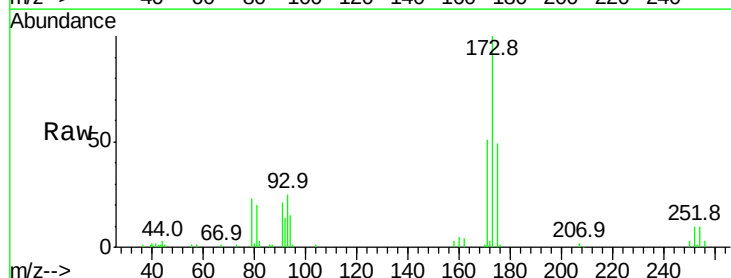
Tgt Ion: 173 Resp: 18380

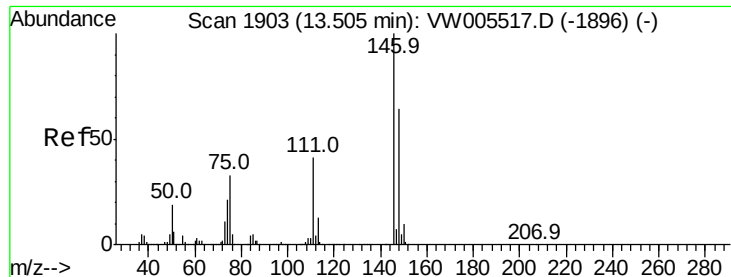
Ion Ratio Lower Upper

173 100

175 49.1 39.4 59.0

254 10.0 8.8 13.2

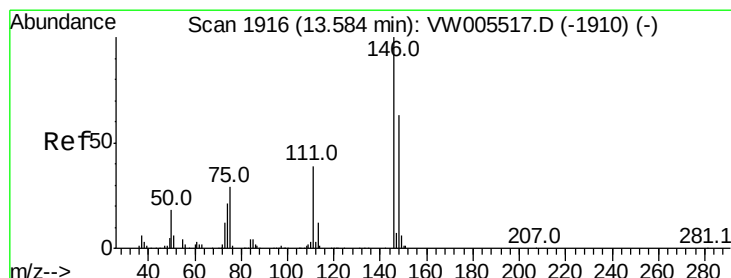
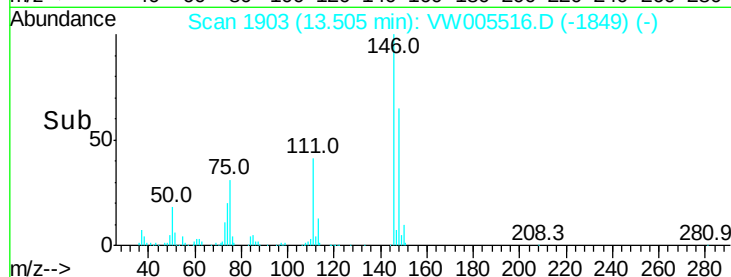
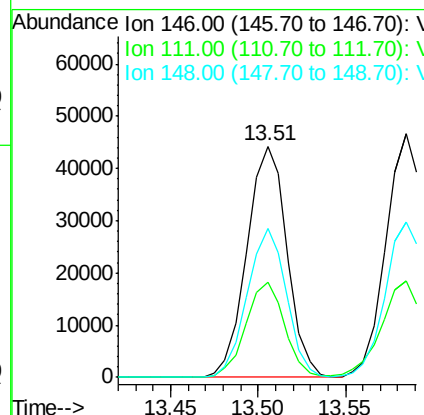
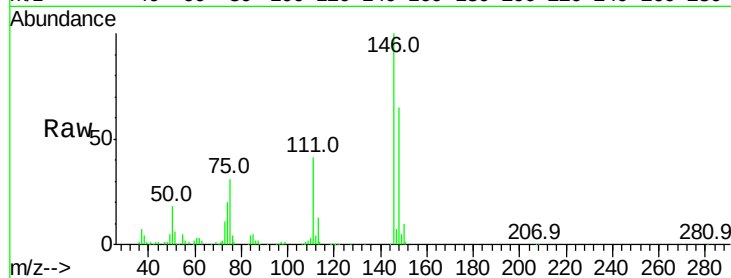




#63
 1,3-Dichlorobenzene
 Concen: 4.934 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW005516.D
 Acq: 19 Sep 2018 15:50

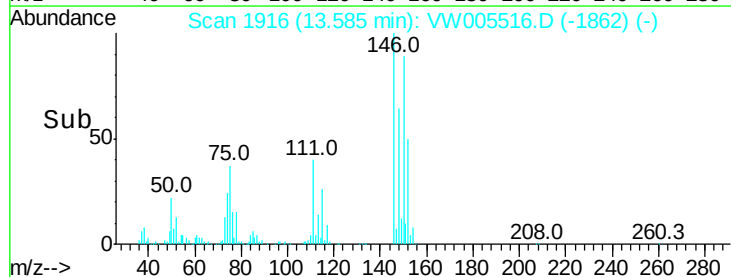
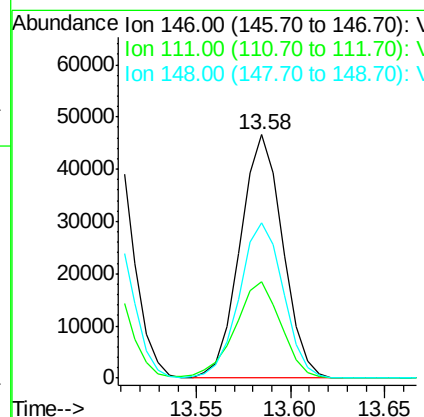
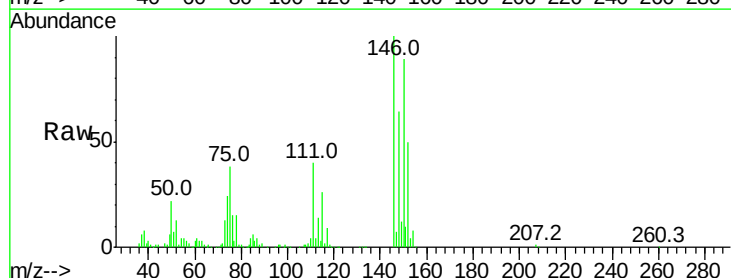
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00592

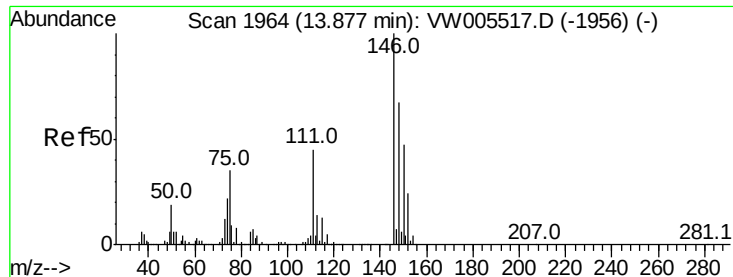
Tgt Ion:146 Resp: 70990
 Ion Ratio Lower Upper
 146 100
 111 41.2 28.6 53.0
 148 64.5 44.9 83.5



#64
 1,4-Dichlorobenzene
 Concen: 4.933 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW005516.D
 Acq: 19 Sep 2018 15:50

Tgt Ion:146 Resp: 73256
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.4 51.0
 148 63.7 43.8 81.4

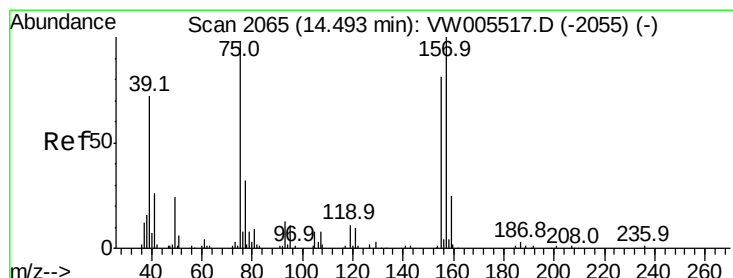
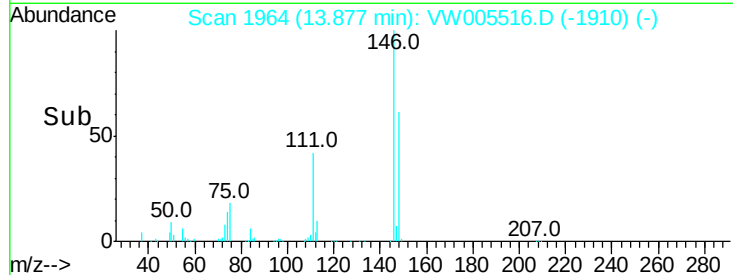
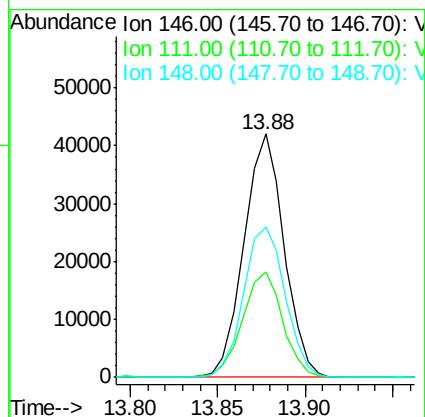
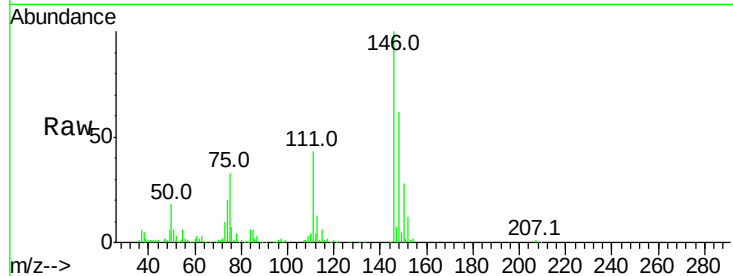




#65
 1,2-Dichlorobenzene
 Concen: 4.855 ug/L
 RT: 13.88 min Scan# 1964
 Delta R.T. 0.00 min
 Lab File: VW005516.D
 Acq: 19 Sep 2018 15:50

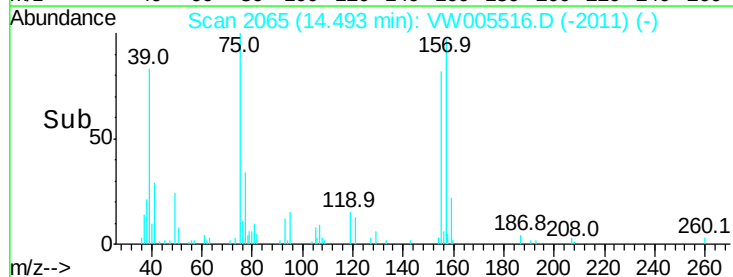
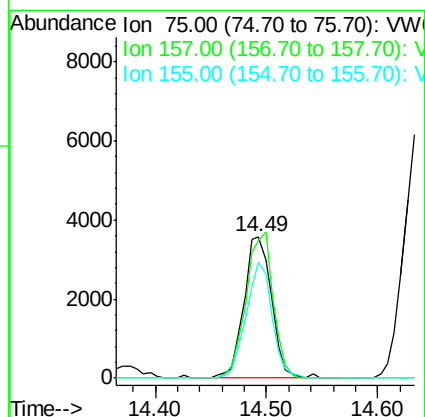
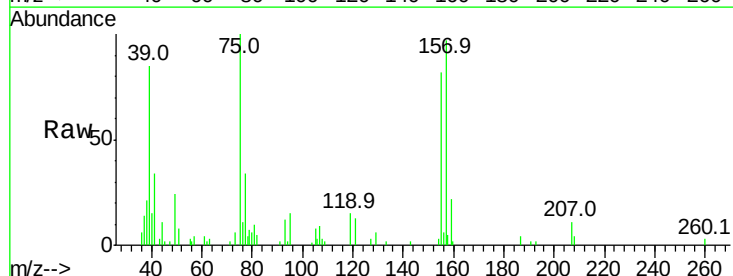
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00592

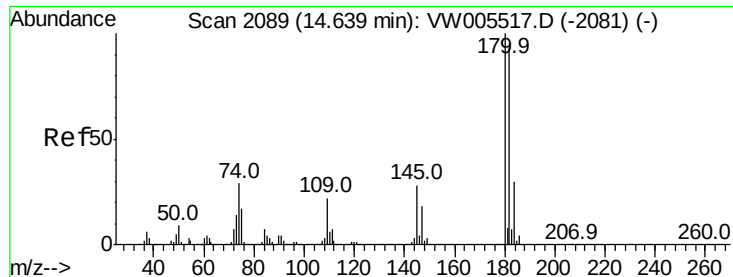
Tgt Ion:146 Resp: 66869
 Ion Ratio Lower Upper
 146 100
 111 43.4 35.9 53.9
 148 61.8 53.5 80.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.125 ug/L
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.00 min
 Lab File: VW005516.D
 Acq: 19 Sep 2018 15:50

Tgt Ion: 75 Resp: 6165
 Ion Ratio Lower Upper
 75 100
 157 97.1 81.5 122.3
 155 81.9 66.2 99.2

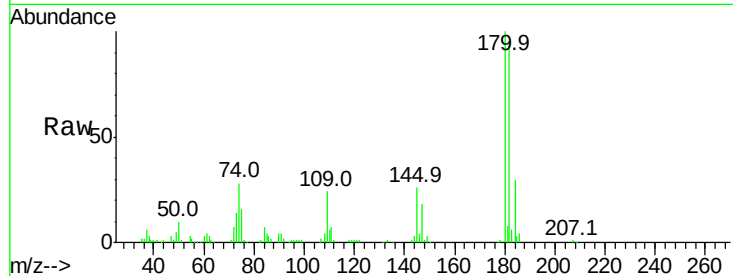




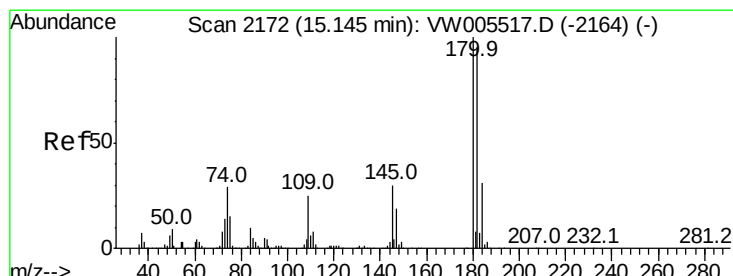
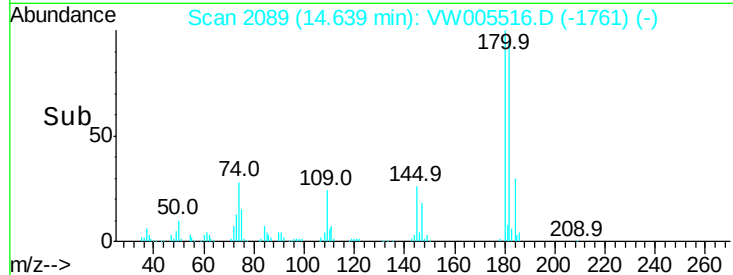
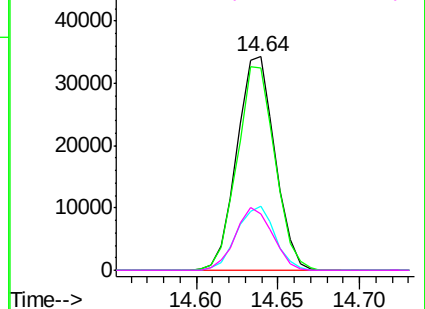
#67
 1,3,5-Trichlorobenzene
 Concen: 4.879 ug/L
 RT: 14.64 min Scan# 2089
 Delta R.T. 0.00 min
 Lab File: VW005516.D
 Acq: 19 Sep 2018 15:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00592

Tgt Ion:	180	Resp:	55588
Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.2	114.4
184	30.1	24.1	36.1
145	28.8	23.5	35.3

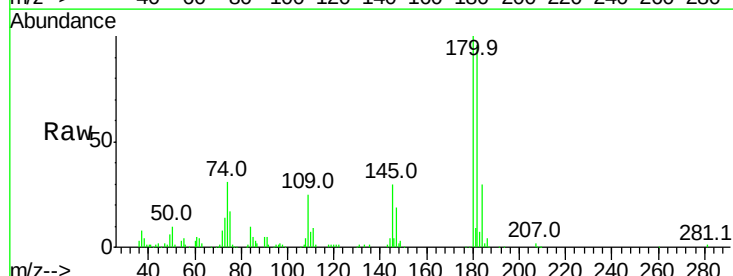


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

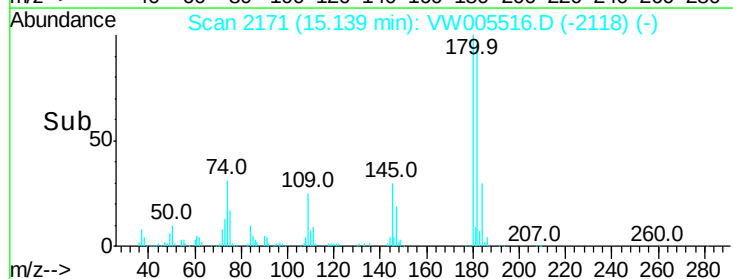
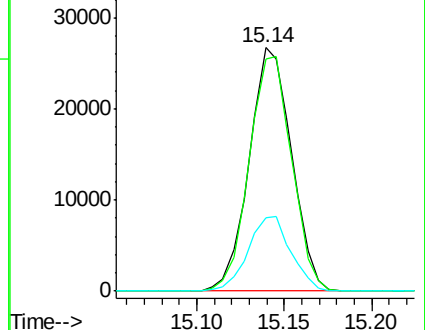


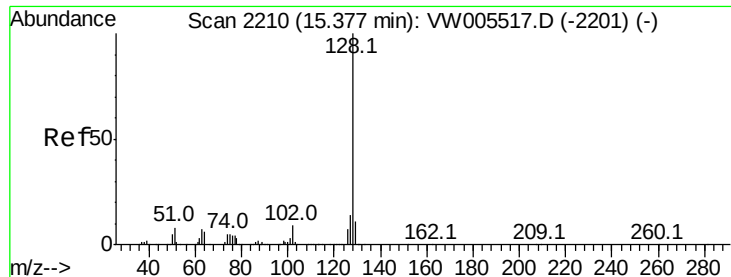
#68
 1,2,4-trichlorobenzene
 Concen: 4.776 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: VW005516.D
 Acq: 19 Sep 2018 15:50

Tgt Ion:	180	Resp:	44976
Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.7	115.1
145	31.1	24.6	37.0



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





#69

Naphthalene

Concen: 4.295 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD00592

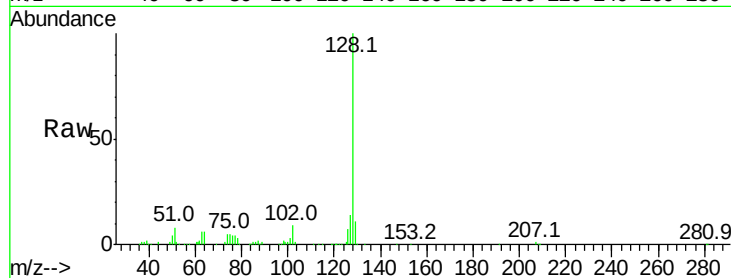
Tgt Ion:128 Resp: 88602

Ion Ratio Lower Upper

128 100

129 11.4 8.9 13.3

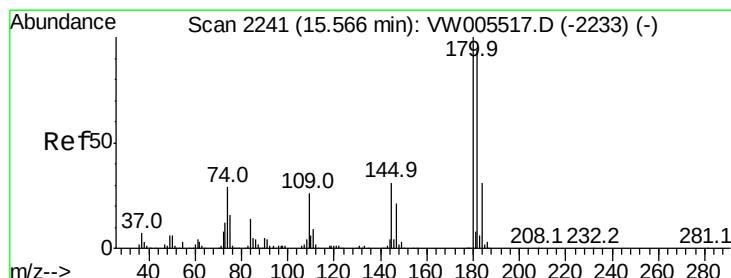
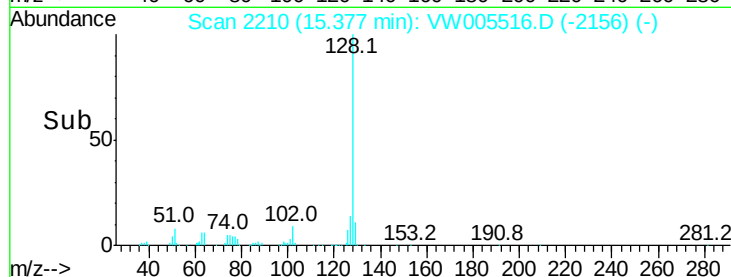
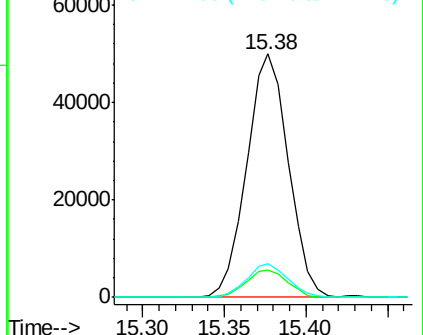
127 13.6 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.878 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VW005516.D

Acq: 19 Sep 2018 15:50

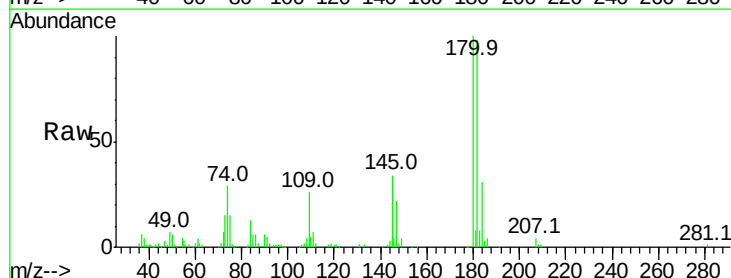
Tgt Ion:180 Resp: 43171

Ion Ratio Lower Upper

180 100

182 94.9 76.6 114.8

145 32.2 25.9 38.9



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

