

Data File : VW014211.D
Acq On : 05 Dec 2019 12:48
Operator : SY/VA
Sample : VSTD00502
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

Quant Time: Dec 05 14:18:08 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 05 14:14:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1242297	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1136624	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	540187	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	89959	4.54	ug/L	0.00
7) Chloroethane-d5	2.88	69	60640	3.77	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.03	63	153945	3.78	ug/L	0.00
20) 2-Butanone-d5	7.08	46	35237	6.12	ug/L	0.00
24) Chloroform-d	7.65	84	134798	3.53	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.30	65	68920	3.59	ug/L	0.00
29) Benzene-d6	8.27	84	281730	3.49	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	84758	3.59	ug/L	0.00
37) Toluene-d8	10.32	98	244157	3.19	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.57	79	33723	3.33	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	27975	6.24	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	67157	3.76	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	83764	3.86	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	55863	3.781 ug/L	99
3) Chloromethane	2.21	50	61865	4.714 ug/L	97
5) Vinyl chloride	2.36	62	88224	4.306 ug/L	92
6) Bromomethane	2.78	94	54911	4.328 ug/L	99
8) Chloroethane	2.92	64	47884	3.929 ug/L	97
9) Trichlorofluoromethane	3.25	101	40249	2.881 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	80075	3.881 ug/L	95
12) 1,1-Dichloroethene	4.05	96	78295	3.733 ug/L	94
13) Acetone	4.12	43	38738	6.611 ug/L	99
14) Carbon disulfide	4.38	76	245869	4.119 ug/L	97
15) Methyl Acetate	4.67	43	41081	4.333 ug/L	99
16) Methylene chloride	4.92	84	95989	4.014 ug/L	97
17) Methyl tert-butyl Ether	5.43	73	102009	3.770 ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	84630	3.870 ug/L	95
19) 1,1-Dichloroethane	6.21	63	154017	4.181 ug/L	97
21) 2-Butanone	7.17	43	52242	6.940 ug/L	100
22) cis-1,2-Dichloroethene	7.16	96	86092	3.741 ug/L	96
23) Bromochloromethane	7.51	128	42951	4.252 ug/L	85
25) Chloroform	7.67	83	151560	4.190 ug/L	98
27) 1,2-Dichloroethane	8.40	62	100266	4.578 ug/L	99
30) Cyclohexane	7.95	56	128131	3.523 ug/L	97
31) 1,1,1-Trichloroethane	7.87	97	110051	3.863 ug/L	96
32) Carbon tetrachloride	8.06	117	103675	3.792 ug/L	100
34) Benzene	8.32	78	347563	4.169 ug/L	100
35) Trichloroethene	9.09	95	87677	3.942 ug/L	97
36) Methylcyclohexane	9.34	83	143955	3.610 ug/L	96
40) 1,2-Dichloropropane	9.37	63	90675	4.518 ug/L	99
41) Bromodichloromethane	9.64	83	106715	4.398 ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	123907	3.912 ug/L	99
43) 4-Methyl-2-pentanone	10.21	43	108297	8.173 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Thu Dec 05 14:14:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	359544	3.955	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	100540	4.014	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	65920	4.470	ug/L	96
47) Tetrachloroethene	10.86	164	73042	3.685	ug/L	96
49) 2-Hexanone	10.97	43	69301	7.254	ug/L	97
50) Dibromochloromethane	11.13	129	71996	4.154	ug/L	99
51) 1,2-Dibromoethane	11.23	107	61278	4.283	ug/L #	95
52) Chlorobenzene	11.65	112	237756	4.172	ug/L	95
53) Ethylbenzene	11.73	91	382993	3.840	ug/L	99
54) m,p-Xylene	11.83	106	144972	3.740	ug/L	100
55) o-xylene	12.16	106	136188	3.752	ug/L	98
56) Styrene	12.18	104	233781	3.812	ug/L	99
57) Isopropylbenzene	12.46	105	356151	3.568	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	81240	4.719	ug/L	90
59) 1,2,3-Trichloropropane	12.77	75	61509	4.750	ug/L	98
62) Bromoform	12.35	173	42335	4.782	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	174426	4.599	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	183253	4.890	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	165333	4.922	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.48	75	11593	5.068	ug/L	91
67) 1,3,5-Trichlorobenzene	14.63	180	125026	4.325	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	89909	3.956	ug/L	99
69) Naphthalene	15.36	128	143669	3.558	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	87250	4.350	ug/L	97

(#) = 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 :
VSTD00502

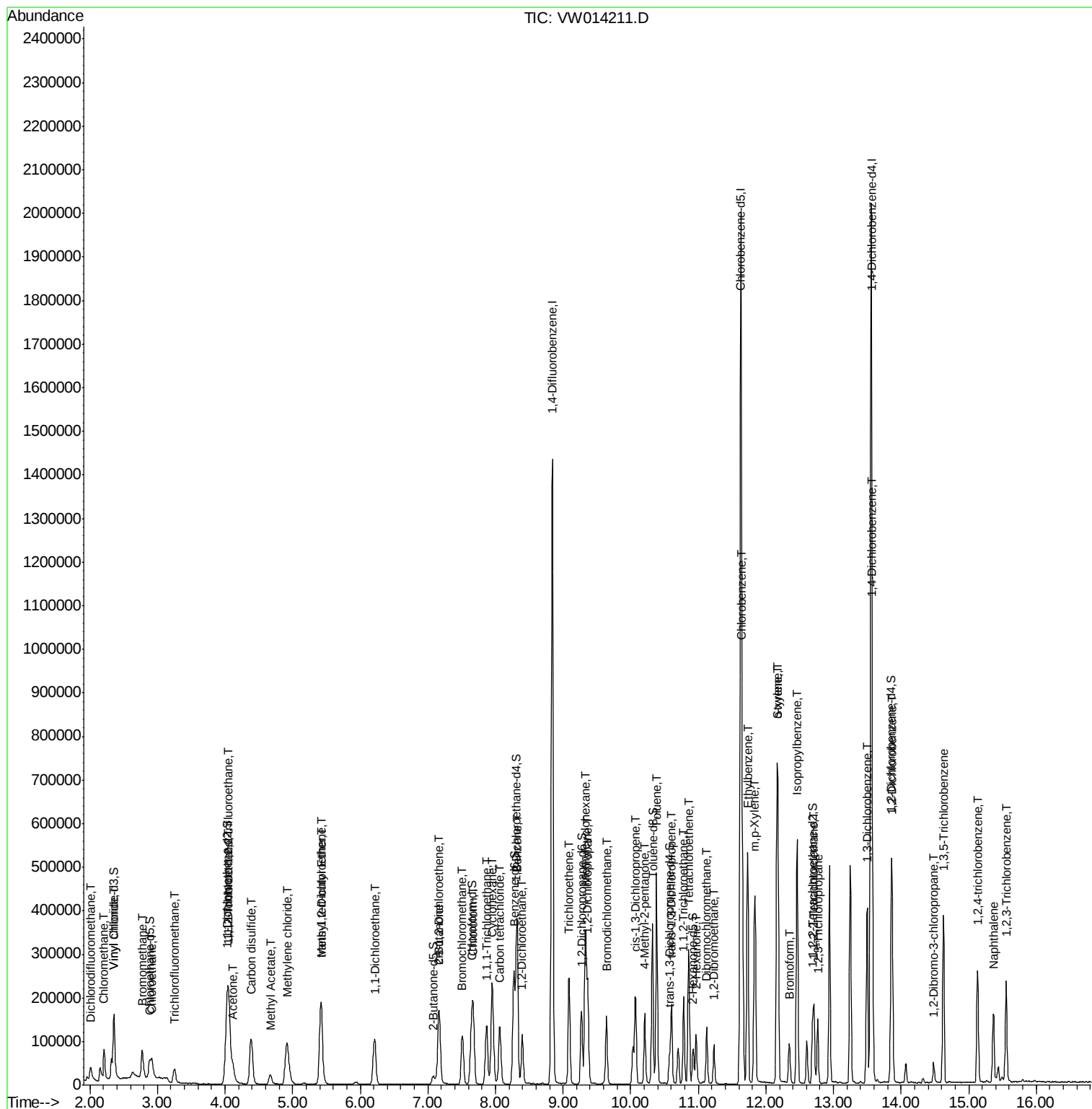
Quant Time: Dec 05 14:18:08 2019

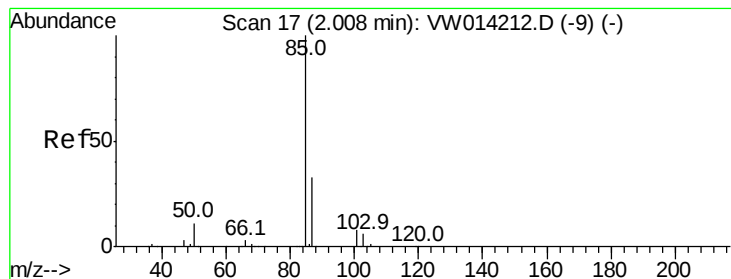
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M

Quant Title : VOC Analysis

QLast Update : Thu Dec 05 14:14:45 2019

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#2

Dichlorodifluoromethane

Concen: 3.781 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

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Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

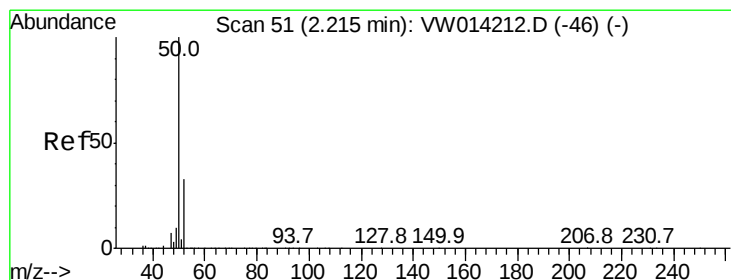
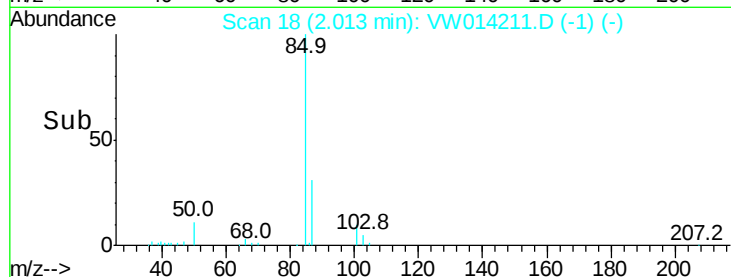
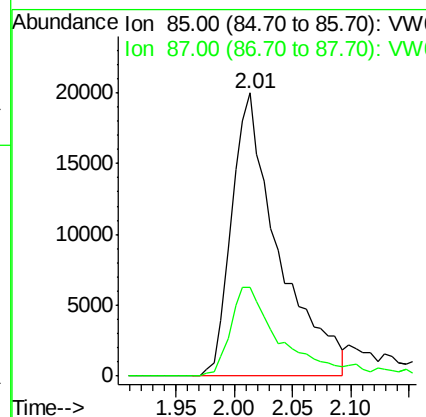
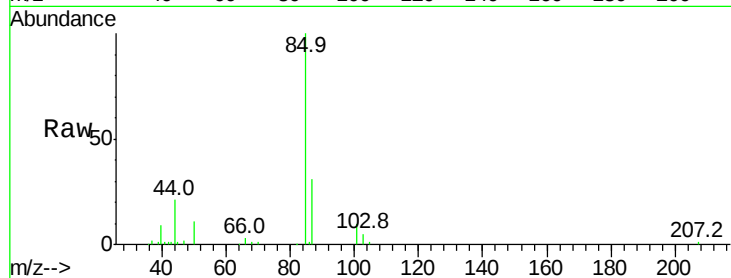
VSTD00502

Tgt Ion: 85 Resp: 55863

Ion Ratio Lower Upper

85 100

87 32.3 22.1 41.1



#3

Chloromethane

Concen: 4.714 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW014211.D

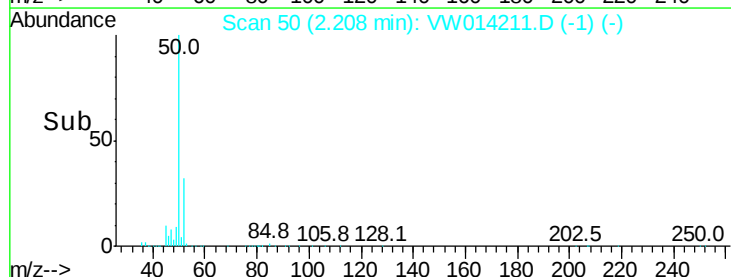
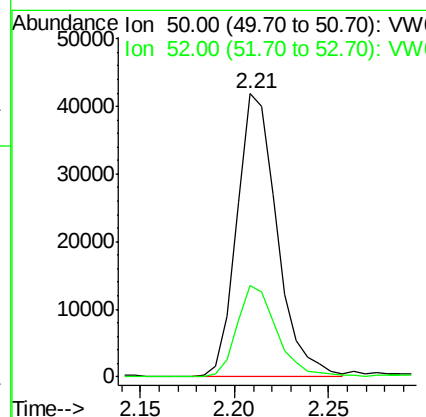
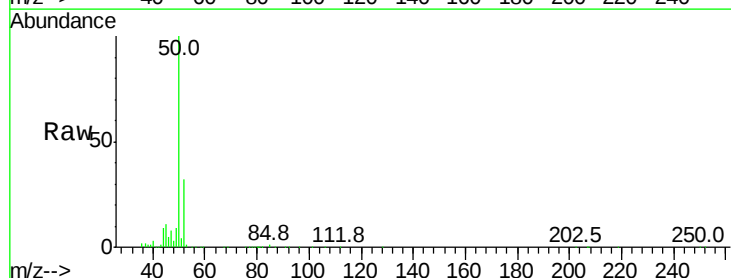
Acq: 05 Dec 2019 12:48

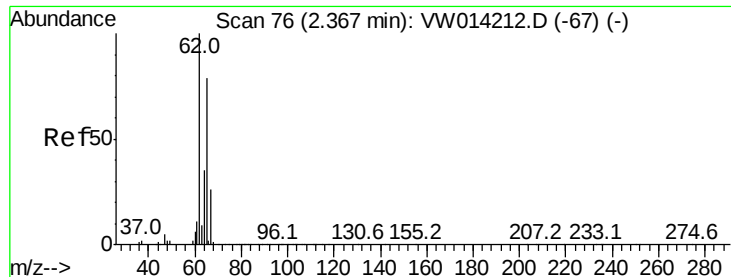
Tgt Ion: 50 Resp: 61865

Ion Ratio Lower Upper

50 100

52 32.3 23.8 44.2





#5

Vinyl chloride

Concen: 4.306 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

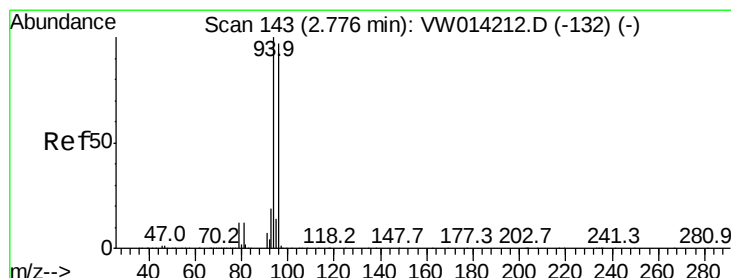
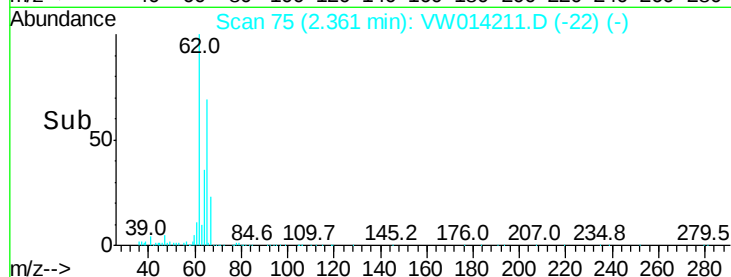
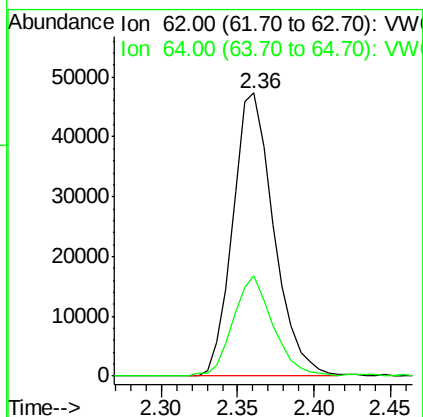
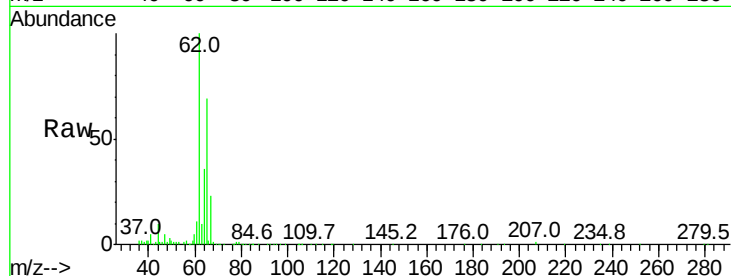
VSTD00502

Tgt Ion: 62 Resp: 88224

Ion Ratio Lower Upper

62 100

64 35.5 21.8 40.4



#6

Bromomethane

Concen: 4.328 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014211.D

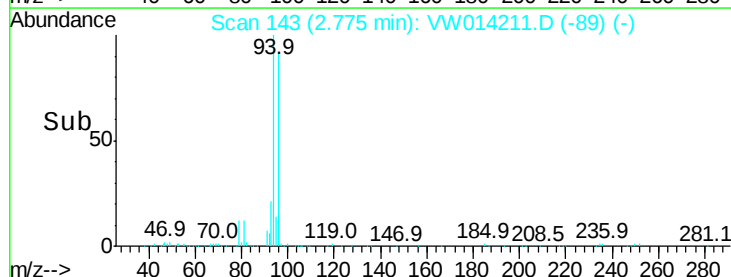
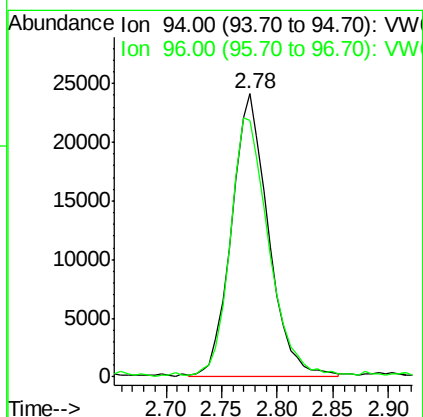
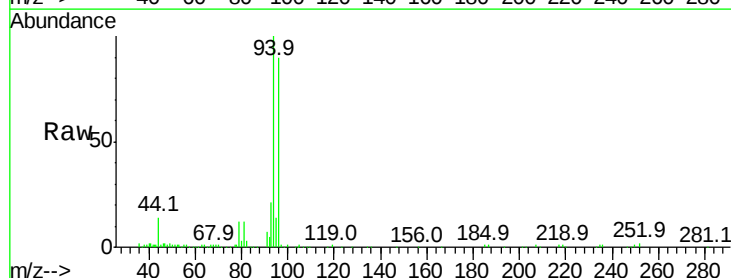
Acq: 05 Dec 2019 12:48

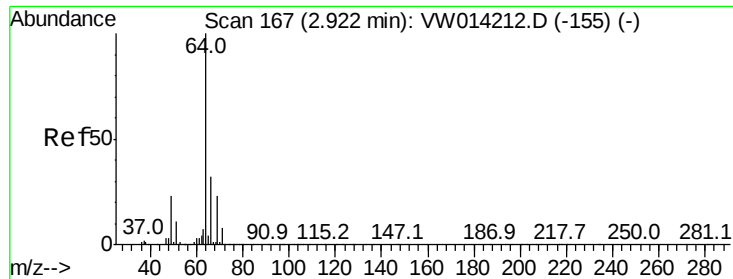
Tgt Ion: 94 Resp: 54911

Ion Ratio Lower Upper

94 100

96 95.4 9.4 178.8

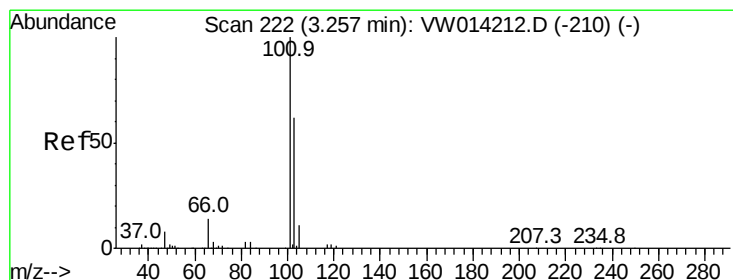
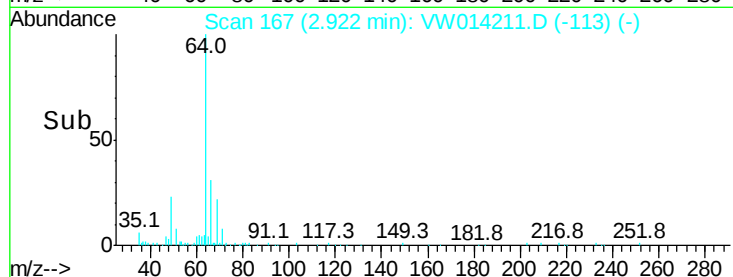
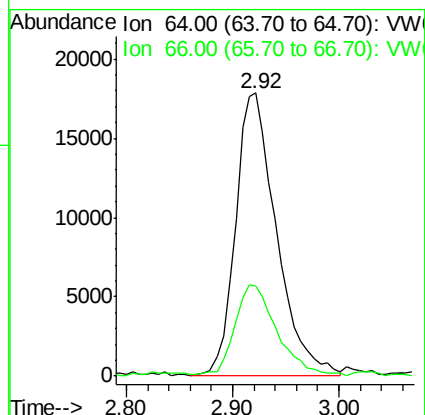
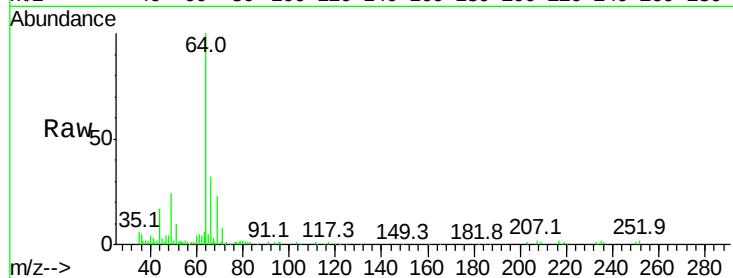




#8
Chloroethane
Concen: 3.929 ug/L
RT: 2.92 min Scan# 167
Delta R.T. -0.00 min
Lab File: VW014211.D
Acq: 05 Dec 2019 12:48

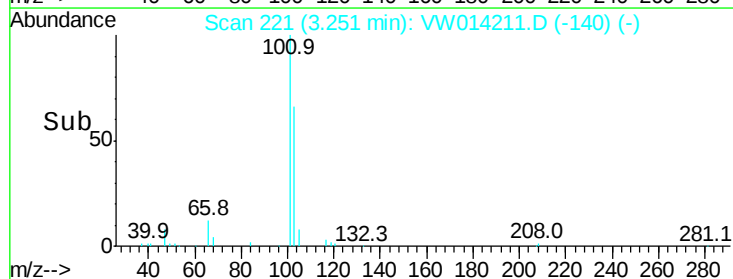
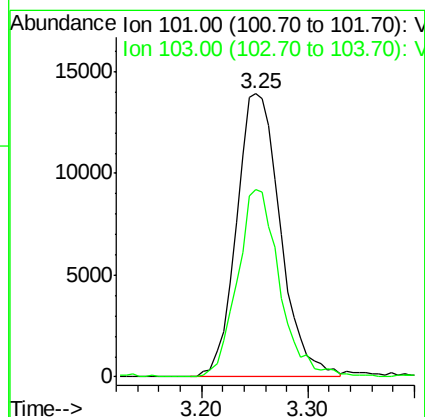
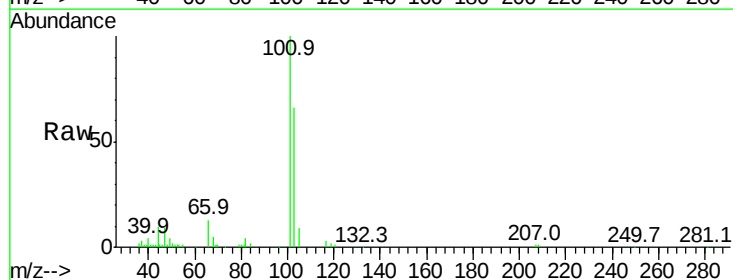
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

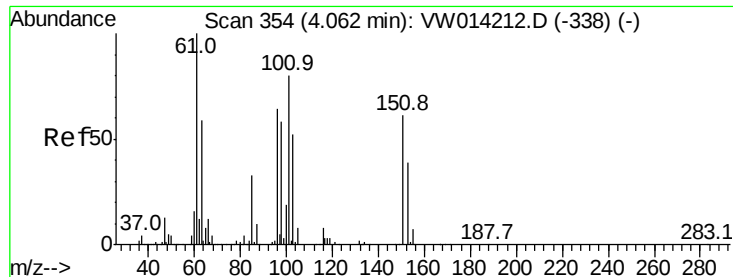
Tgt Ion: 64 Resp: 47884
Ion Ratio Lower Upper
64 100
66 32.0 21.2 39.4



#9
Trichlorofluoromethane
Concen: 2.881 ug/L
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW014211.D
Acq: 05 Dec 2019 12:48

Tgt Ion: 101 Resp: 40249
Ion Ratio Lower Upper
101 100
103 62.5 45.4 84.2





#11

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

Concen: 3.881 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

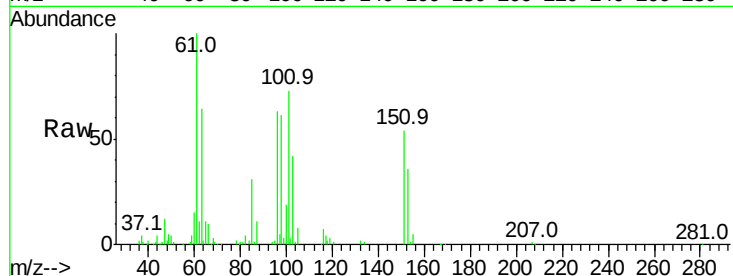
Tgt Ion: 101 Resp: 80075

Ion Ratio Lower Upper

101 100

85 41.2 31.4 47.2

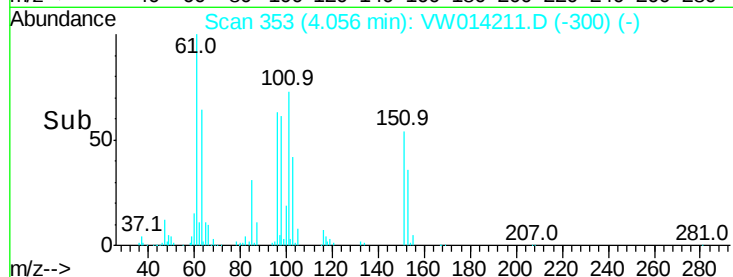
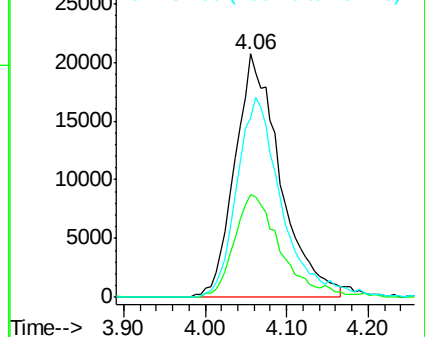
151 77.9 66.9 100.3



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: 3.733 ug/L

RT: 4.05 min Scan# 352

Delta R.T. 0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

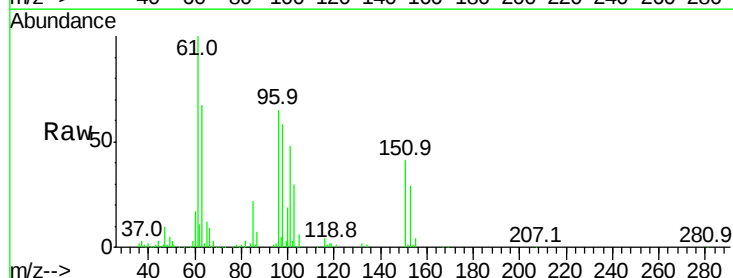
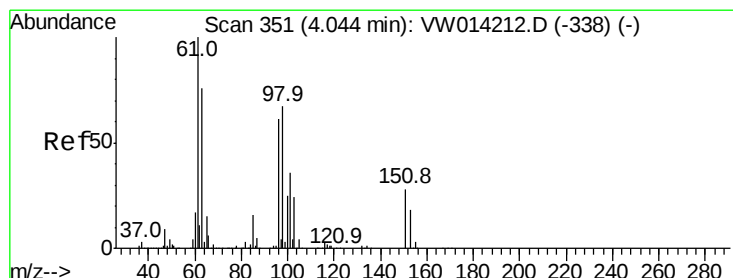
Tgt Ion: 96 Resp: 78295

Ion Ratio Lower Upper

96 100

61 154.9 109.8 204.0

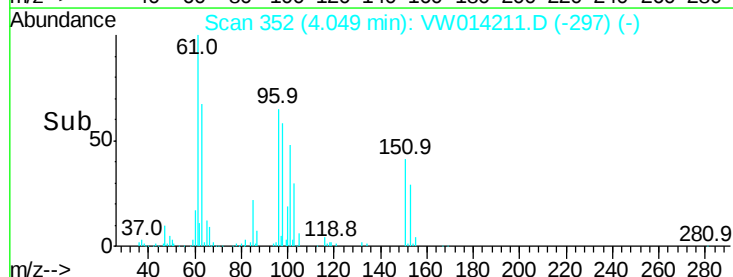
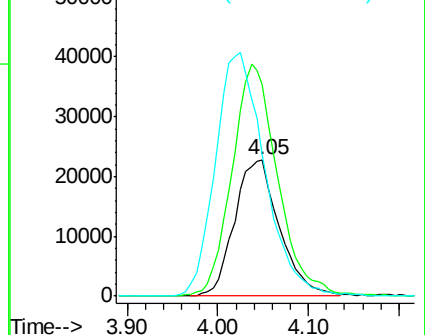
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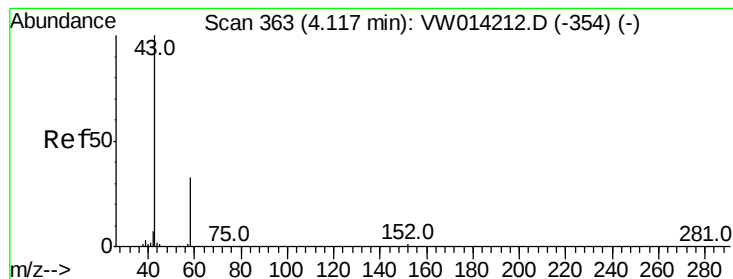


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 6.611 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

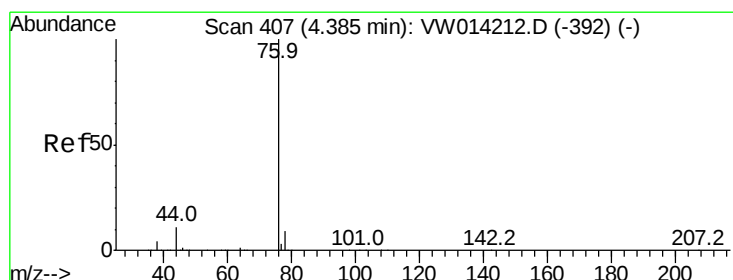
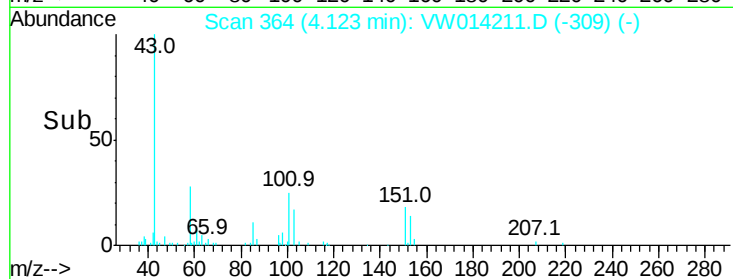
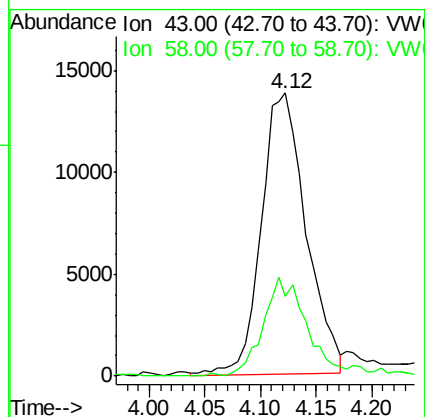
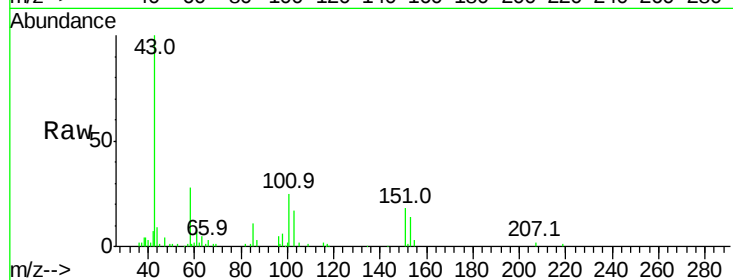
VSTD00502

Tgt Ion: 43 Resp: 38738

Ion Ratio Lower Upper

43 100

58 33.5 0.0 65.4



#14

Carbon disulfide

Concen: 4.119 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW014211.D

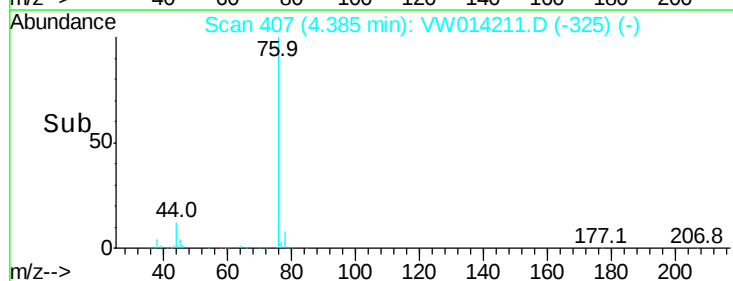
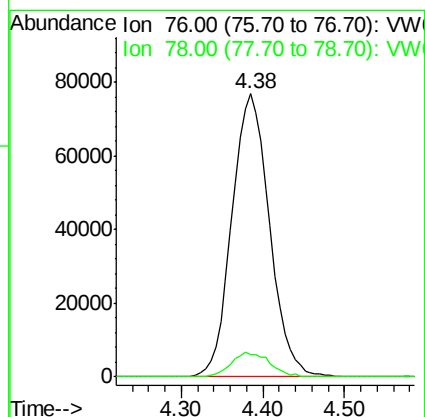
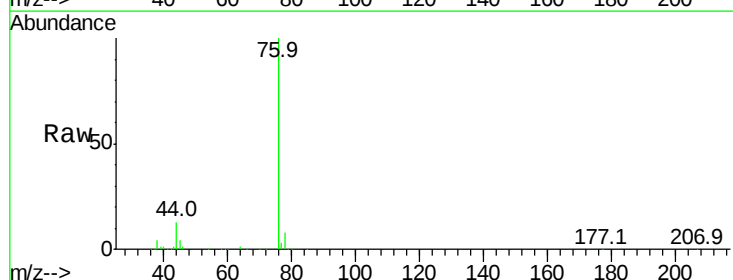
Acq: 05 Dec 2019 12:48

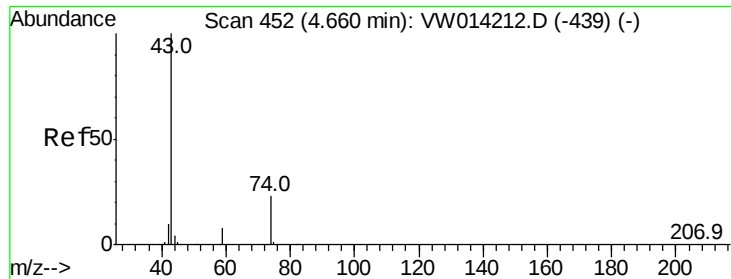
Tgt Ion: 76 Resp: 245869

Ion Ratio Lower Upper

76 100

78 7.9 7.2 10.8

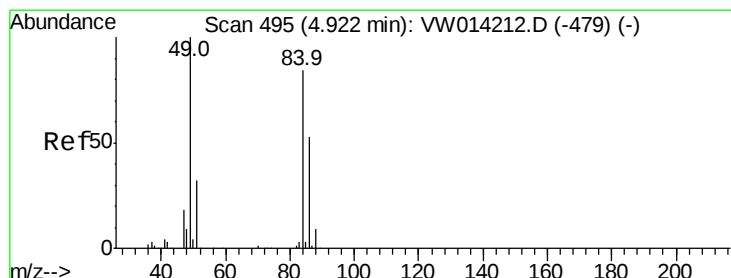
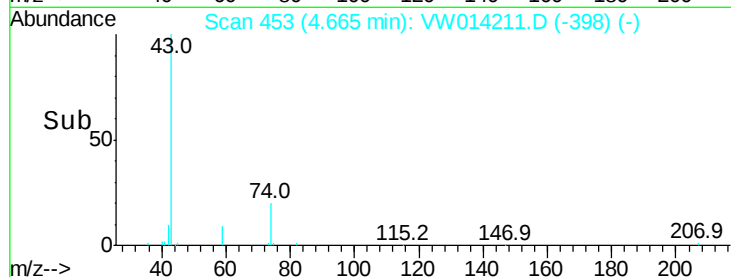
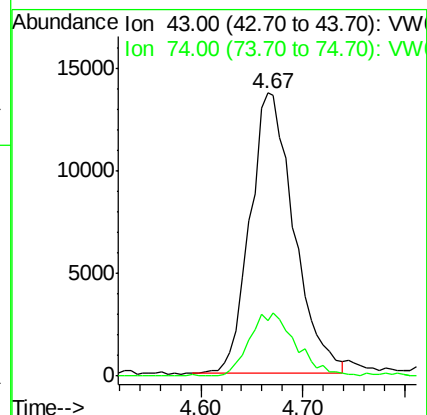
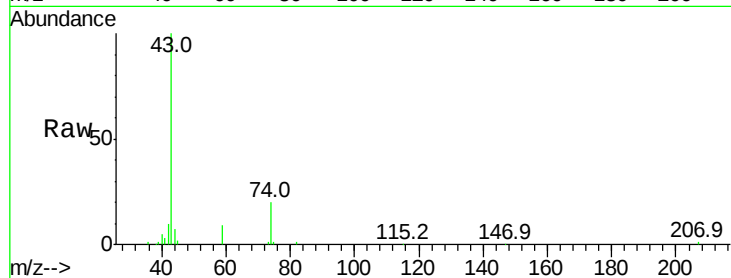




#15
Methyl Acetate
Concen: 4.333 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.01 min
Lab File: VW014211.D
Acq: 05 Dec 2019 12:48

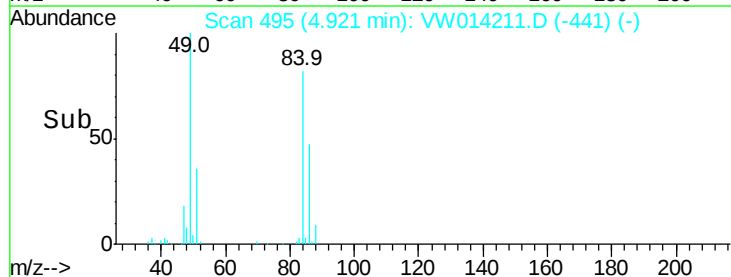
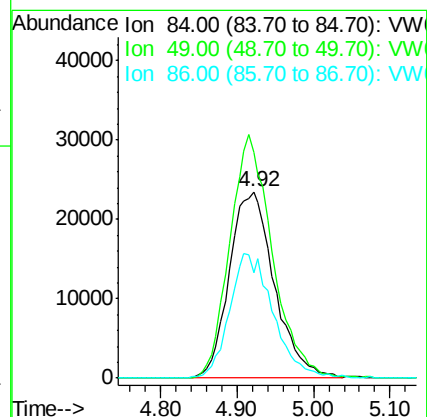
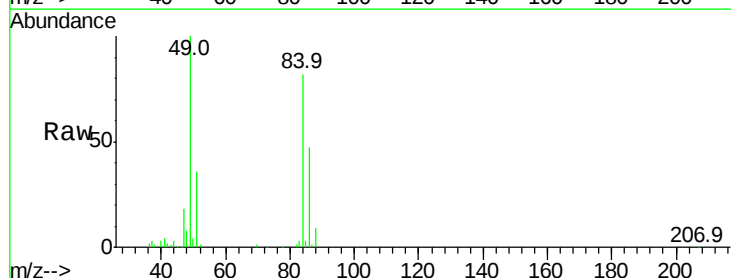
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

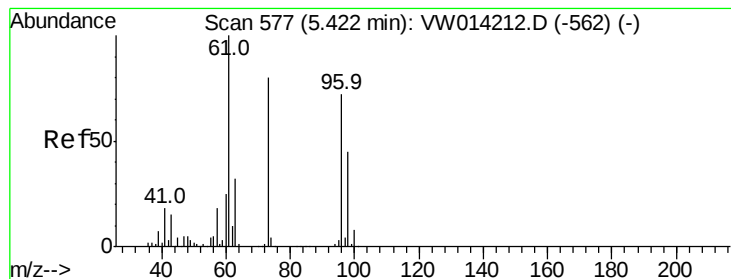
Tgt Ion: 43 Resp: 41081
Ion Ratio Lower Upper
43 100
74 23.8 19.3 28.9



#16
Methylene chloride
Concen: 4.014 ug/L
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW014211.D
Acq: 05 Dec 2019 12:48

Tgt Ion: 84 Resp: 95989
Ion Ratio Lower Upper
84 100
49 121.5 84.2 156.4
86 56.8 43.7 81.1





#17

Methyl tert-butyl Ether

Concen: 3.770 ug/L

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

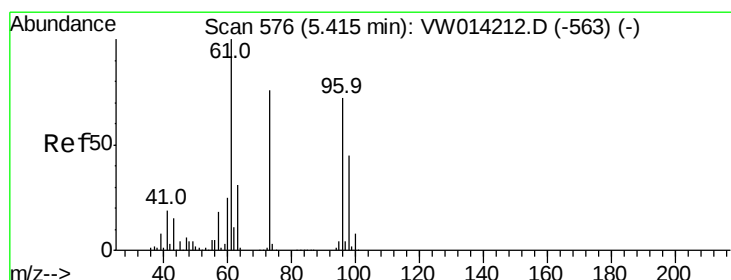
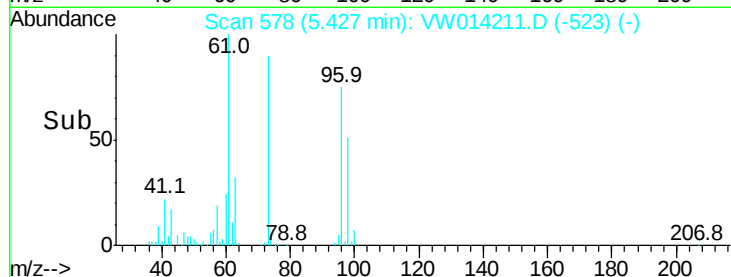
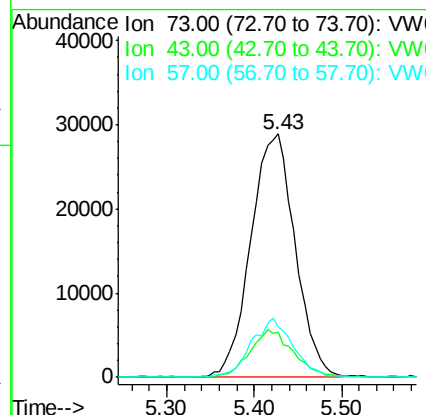
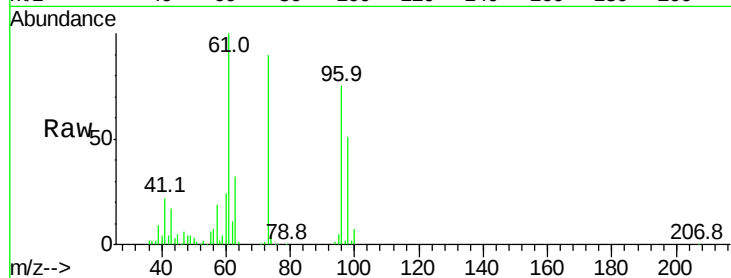
Tgt Ion: 73 Resp: 102009

Ion Ratio Lower Upper

73 100

43 17.8 15.5 23.3

57 22.6 18.2 27.4



#18

trans-1,2-Dichloroethene

Concen: 3.870 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

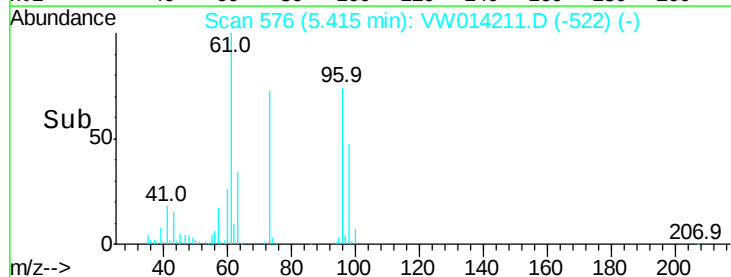
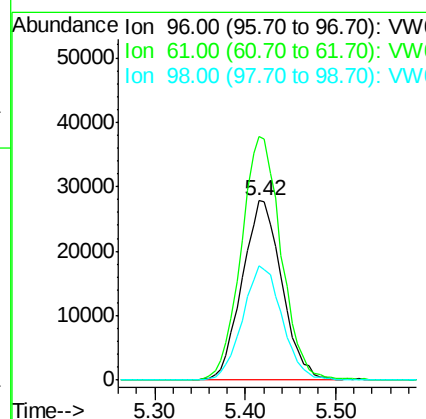
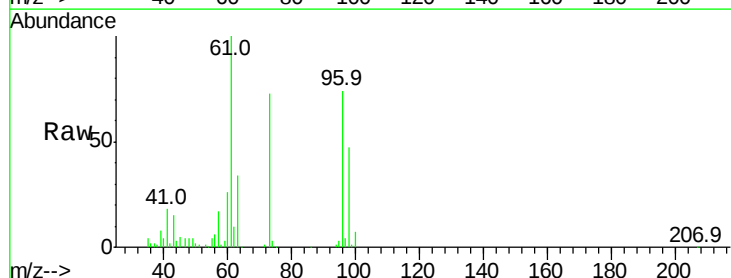
Tgt Ion: 96 Resp: 84630

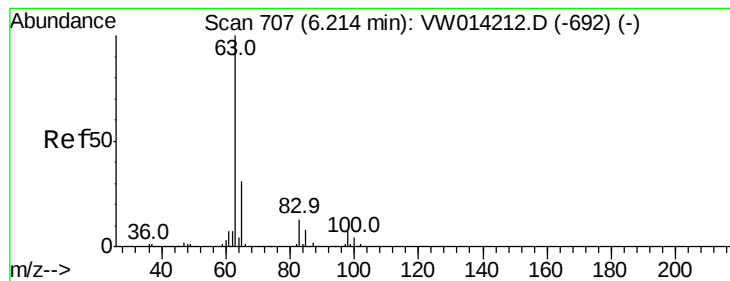
Ion Ratio Lower Upper

96 100

61 135.8 90.6 168.2

98 63.8 42.9 79.7





#19

1,1-Dichloroethane

Concen: 4.181 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

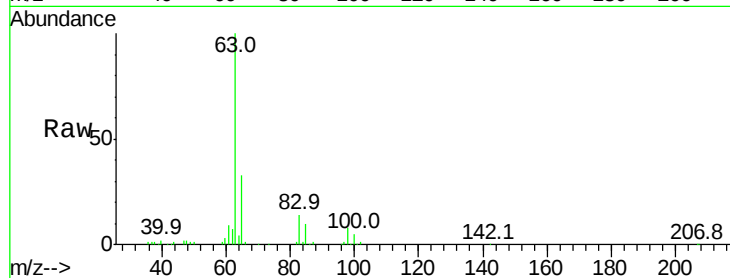
Tgt Ion: 63 Resp: 154017

Ion Ratio Lower Upper

63 100

65 32.9 22.1 41.1

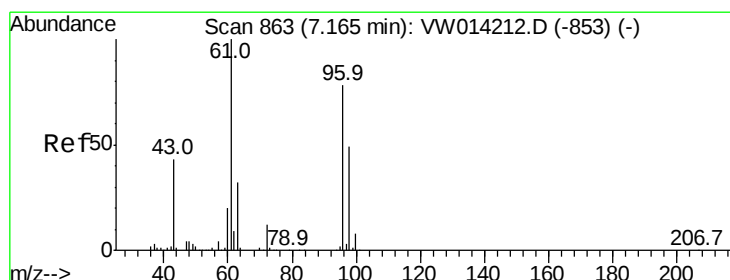
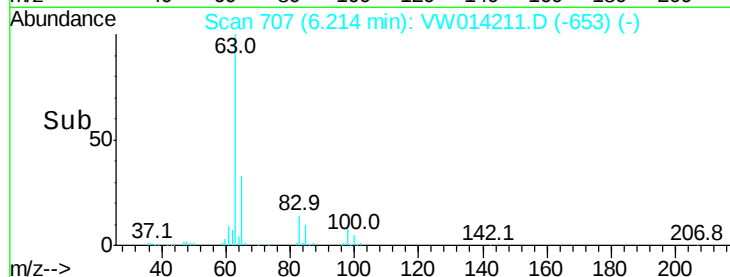
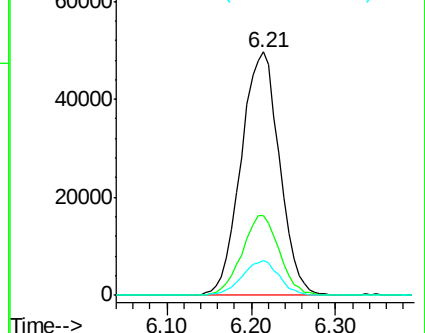
83 14.4 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 6.940 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW014211.D

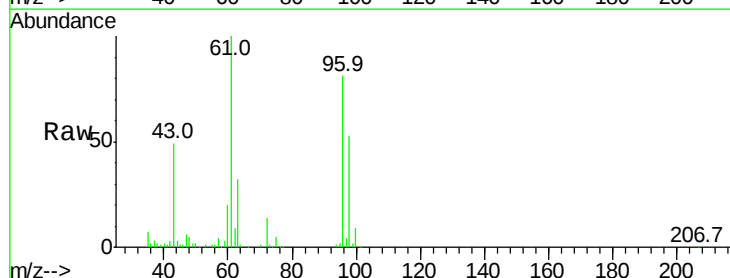
Acq: 05 Dec 2019 12:48

Tgt Ion: 43 Resp: 52242

Ion Ratio Lower Upper

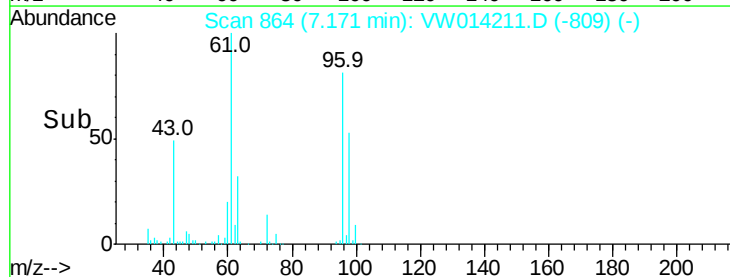
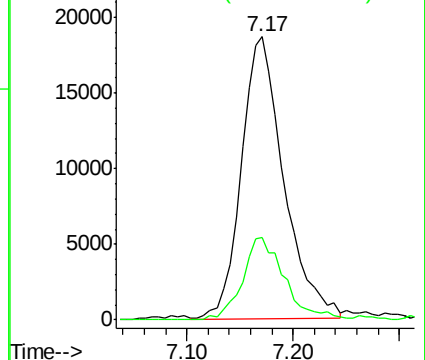
43 100

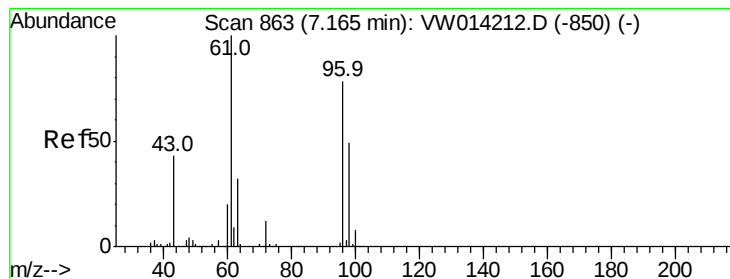
72 28.1 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#22

cis-1,2-Dichloroethene

Concen: 3.741 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

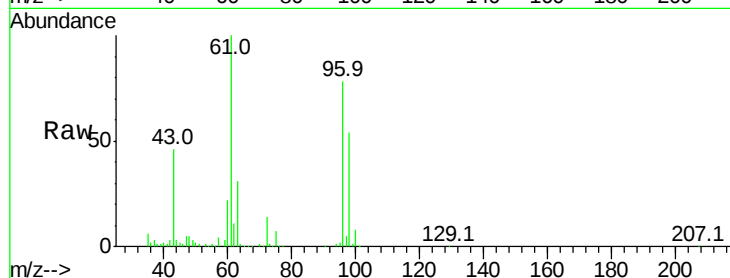
Tgt Ion: 96 Resp: 86092

Ion Ratio Lower Upper

96 100

61 127.7 86.9 161.5

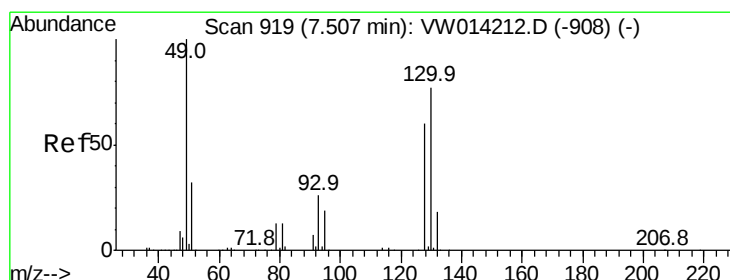
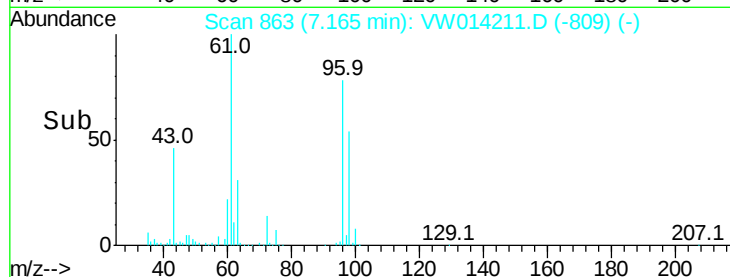
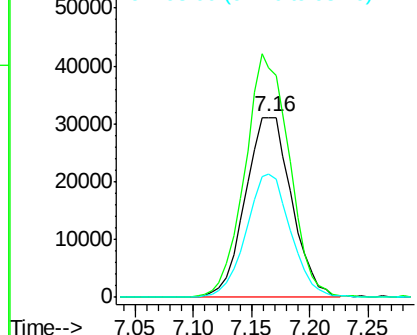
98 68.5 45.5 84.5



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW



#23

Bromochloromethane

Concen: 4.252 ug/L

RT: 7.51 min Scan# 919

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Tgt Ion: 128 Resp: 42951

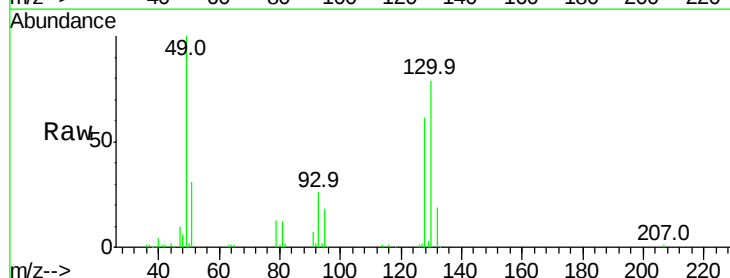
Ion Ratio Lower Upper

128 100

49 165.1 95.1 176.5

130 130.3 85.0 158.0

51 51.8 36.7 55.1

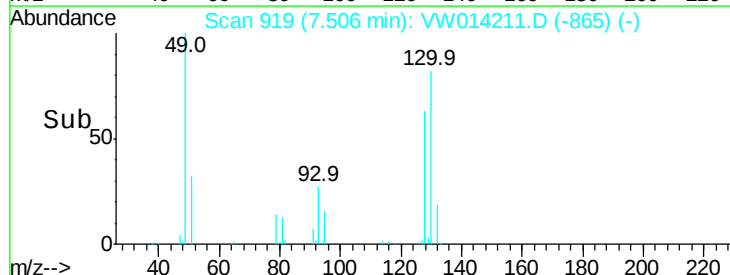
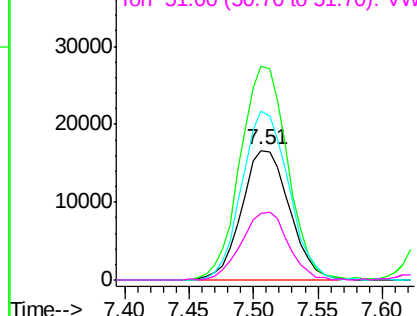


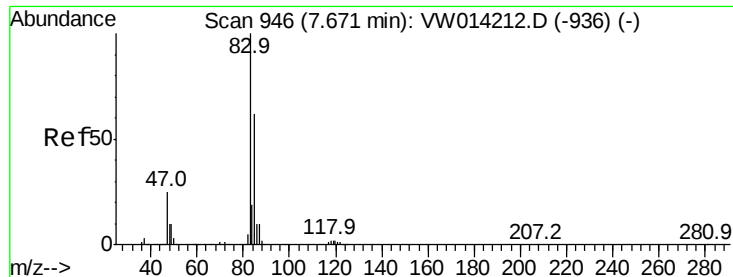
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 4.190 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

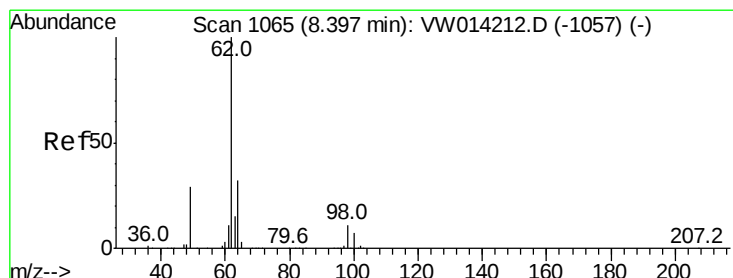
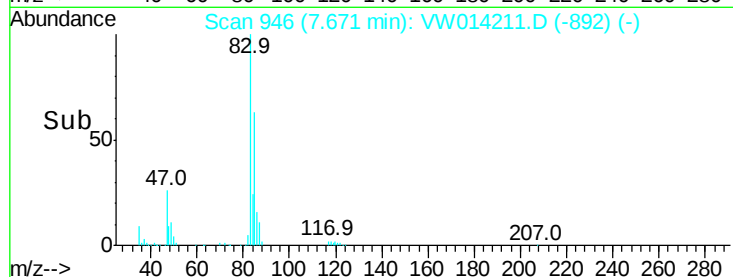
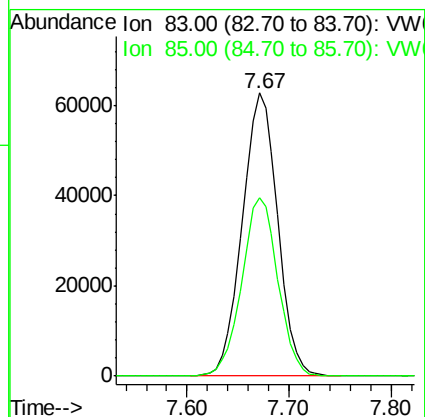
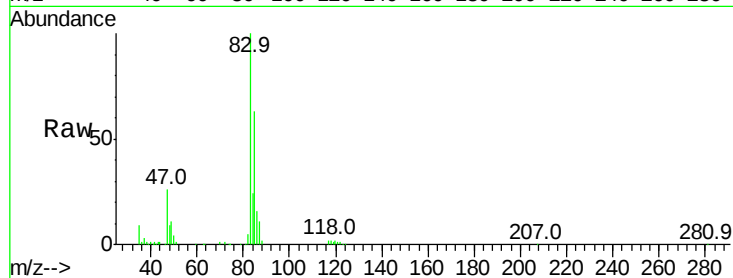
VSTD00502

Tgt Ion: 83 Resp: 151560

Ion Ratio Lower Upper

83 100

85 64.4 46.1 85.7



#27

1,2-Dichloroethane

Concen: 4.578 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014211.D

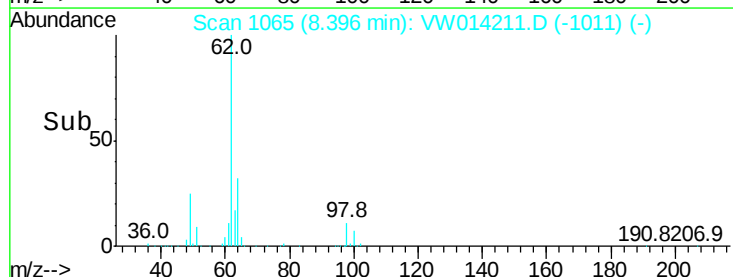
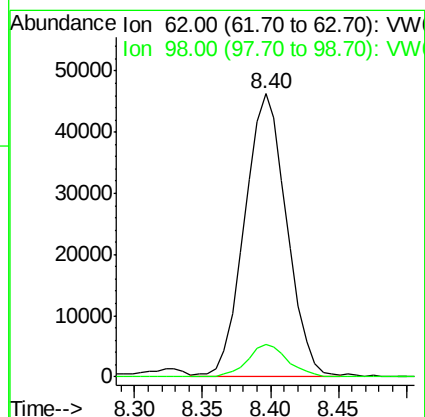
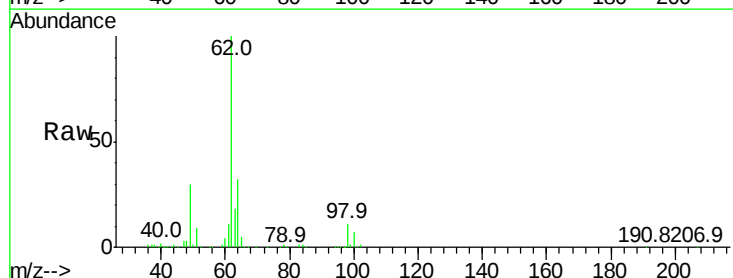
Acq: 05 Dec 2019 12:48

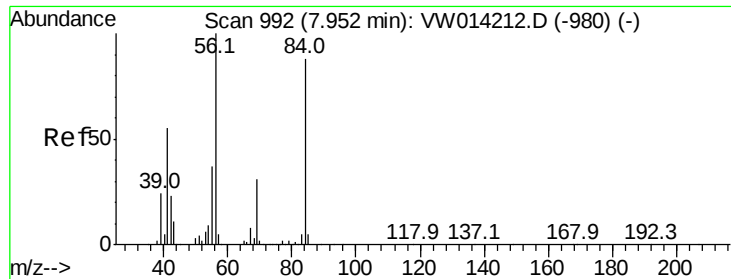
Tgt Ion: 62 Resp: 100266

Ion Ratio Lower Upper

62 100

98 11.4 9.3 13.9

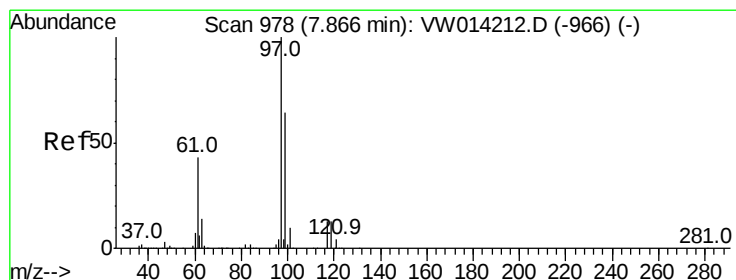
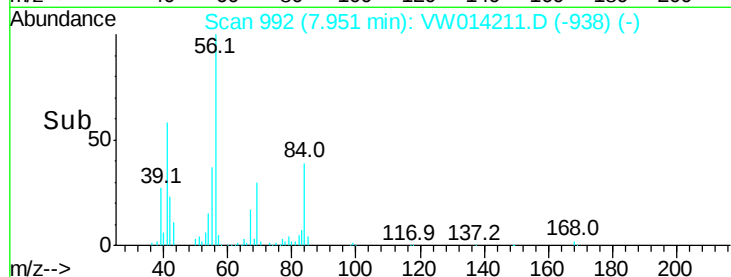
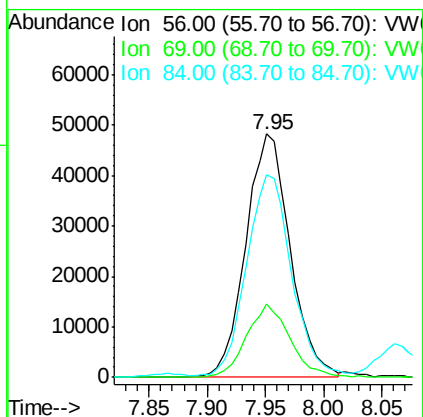
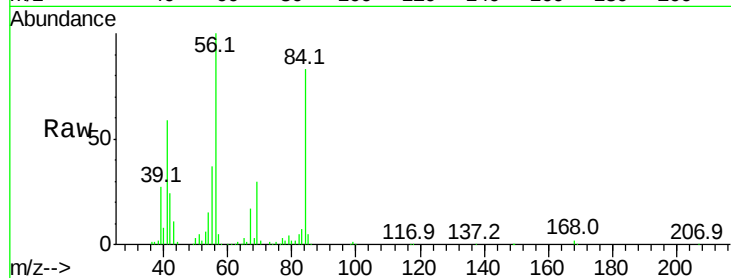




#30
Cyclohexane
Concen: 3.523 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW014211.D
Acq: 05 Dec 2019 12:48

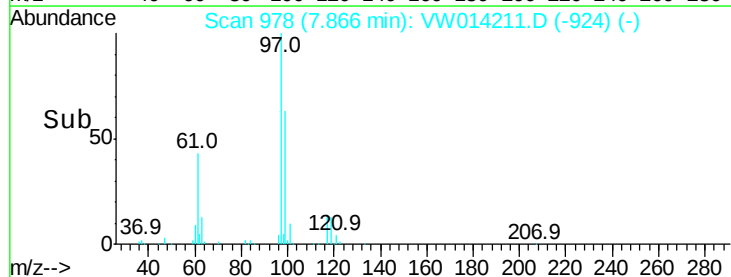
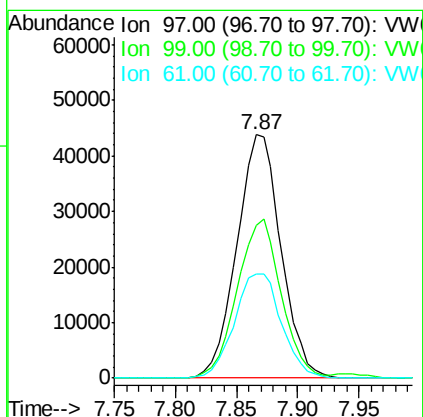
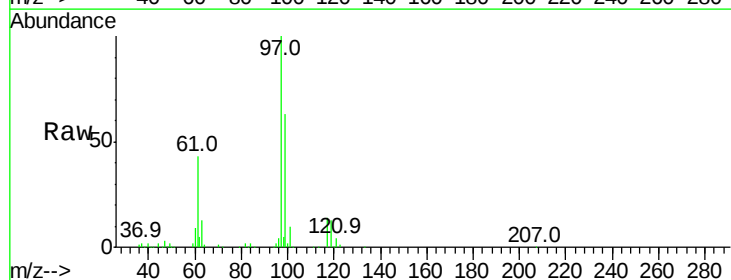
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

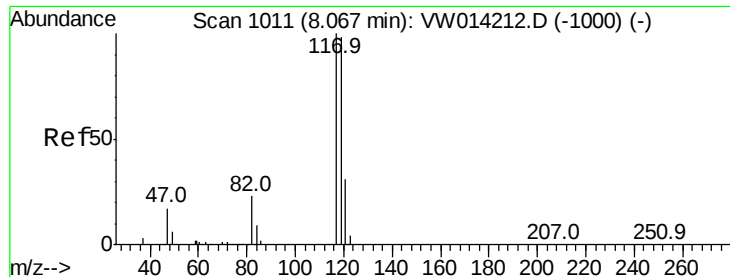
Tgt Ion: 56 Resp: 128131
Ion Ratio Lower Upper
56 100
69 29.4 24.6 37.0
84 84.5 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 3.863 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.00 min
Lab File: VW014211.D
Acq: 05 Dec 2019 12:48

Tgt Ion: 97 Resp: 110051
Ion Ratio Lower Upper
97 100
99 65.2 51.1 76.7
61 45.7 32.8 49.2





#32

Carbon tetrachloride

Concen: 3.792 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

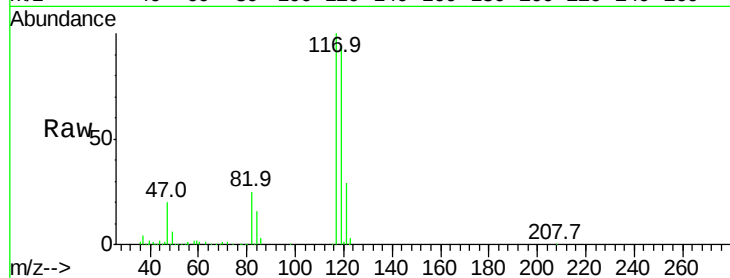
VSTD00502

Tgt Ion:117 Resp: 103675

Ion Ratio Lower Upper

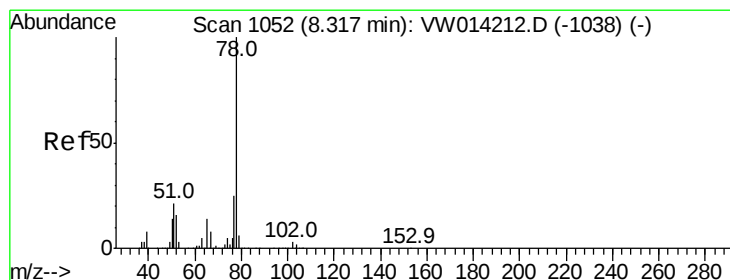
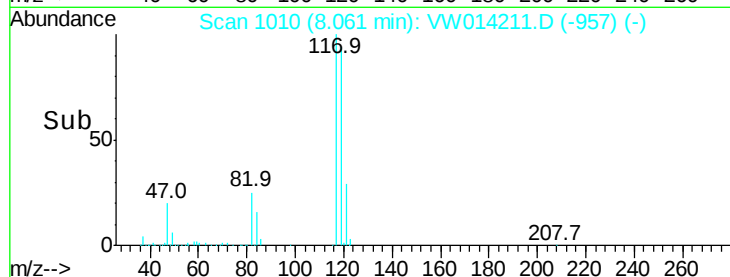
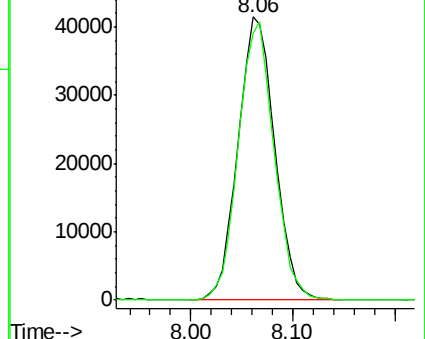
117 100

119 95.4 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 4.169 ug/L

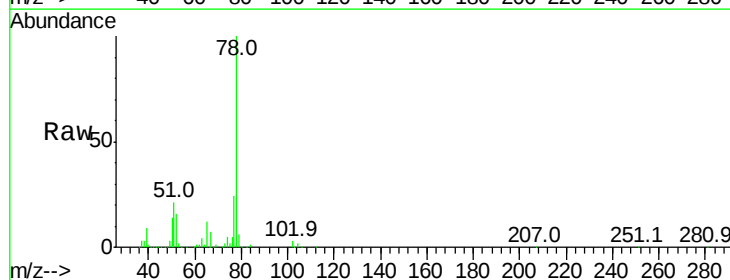
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

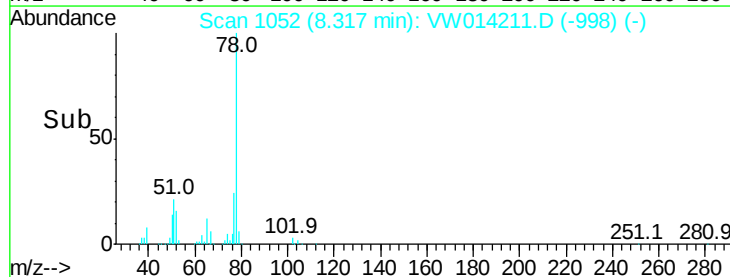
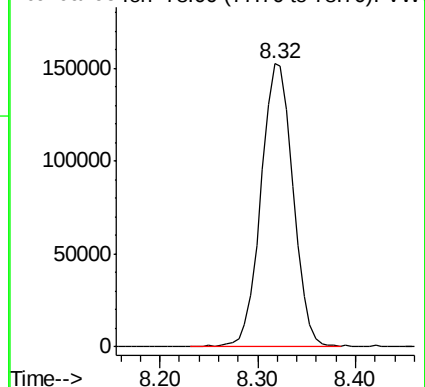
Lab File: VW014211.D

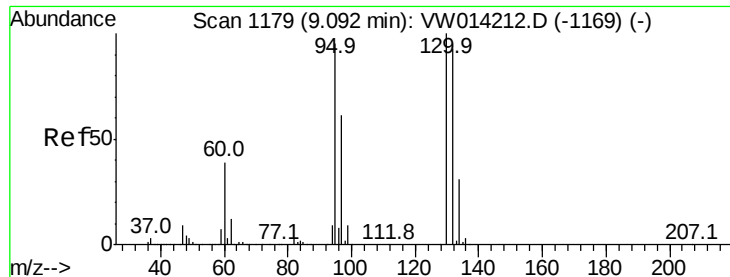
Acq: 05 Dec 2019 12:48

Tgt Ion: 78 Resp: 347563



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 3.942 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

Tgt Ion: 95 Resp: 87677

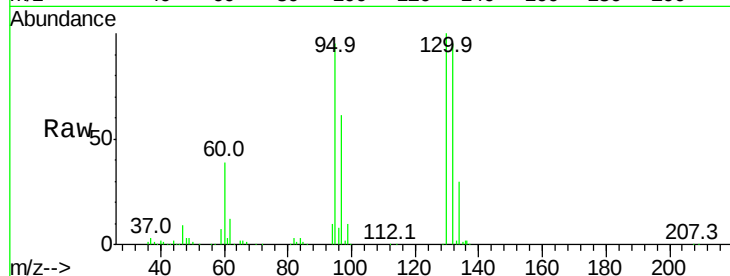
Ion Ratio Lower Upper

95 100

97 64.2 45.1 83.9

132 101.1 73.7 136.9

130 106.0 76.6 142.2

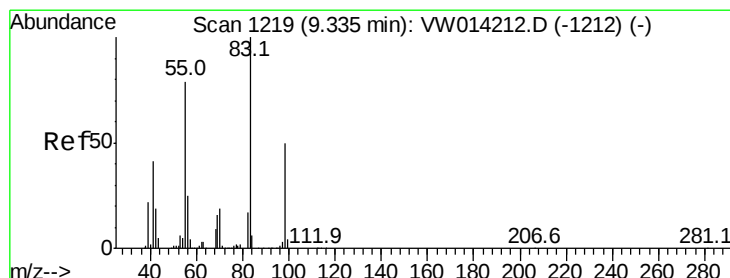
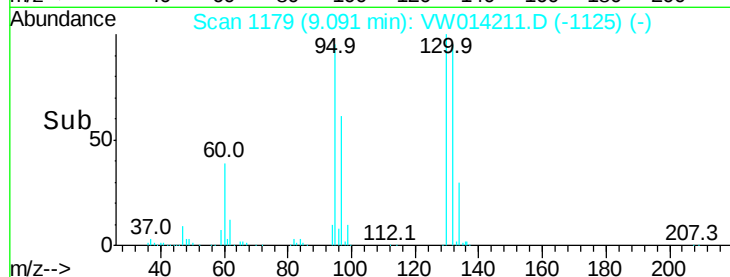
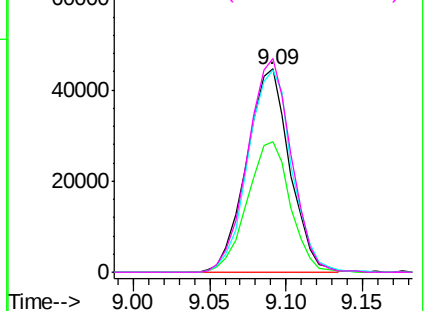


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 3.610 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

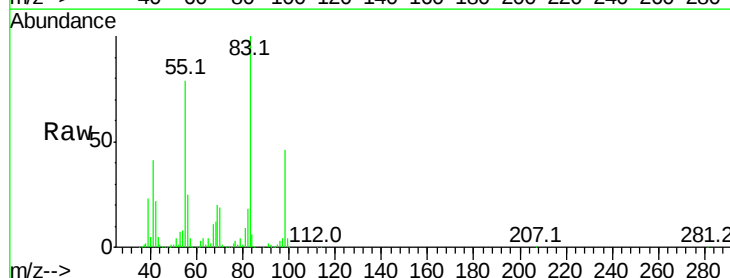
Tgt Ion: 83 Resp: 143955

Ion Ratio Lower Upper

83 100

55 79.3 59.8 89.8

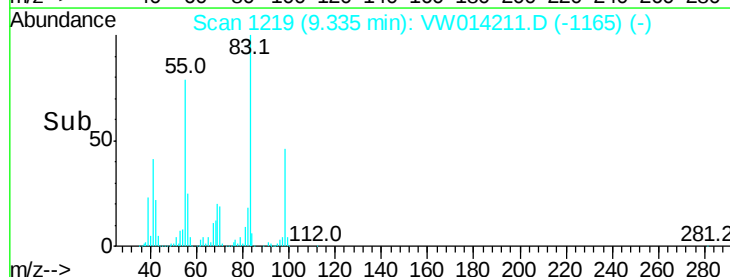
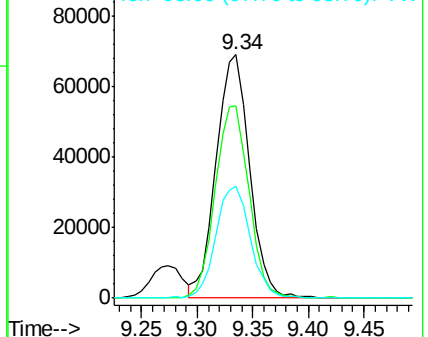
98 47.3 39.5 59.3

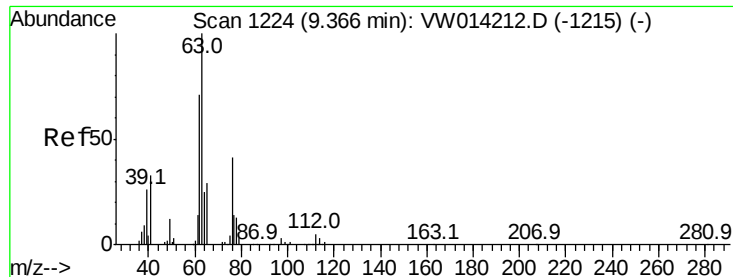


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

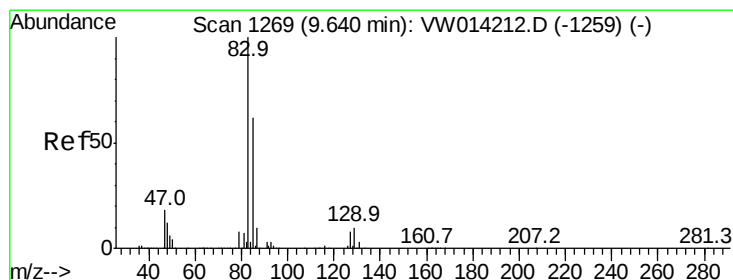
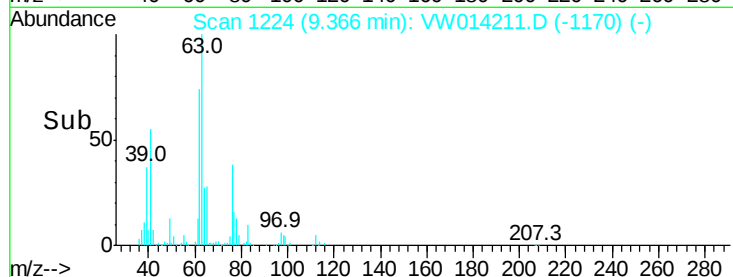
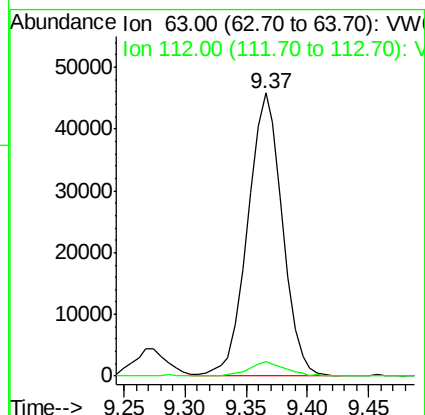
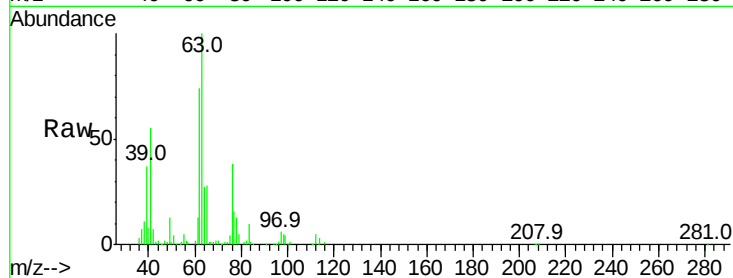




#40
 1,2-Dichloropropane
 Concen: 4.518 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW014211.D
 Acq: 05 Dec 2019 12:48

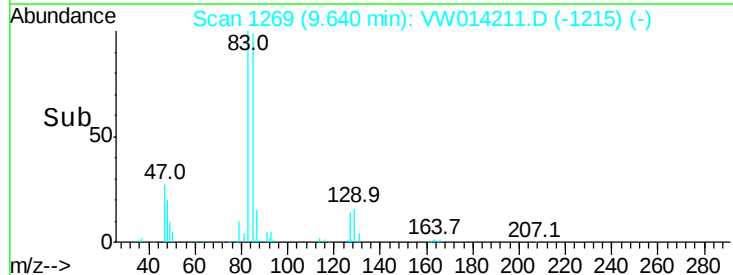
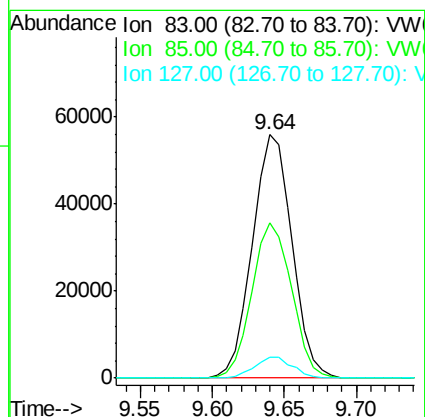
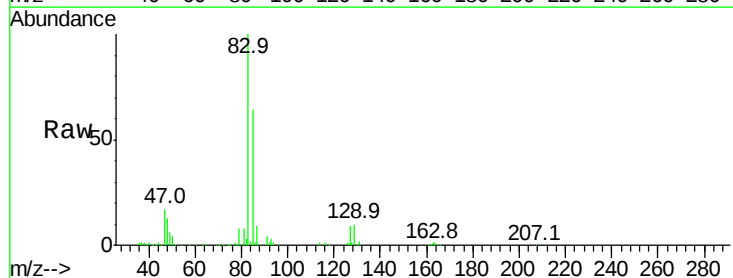
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

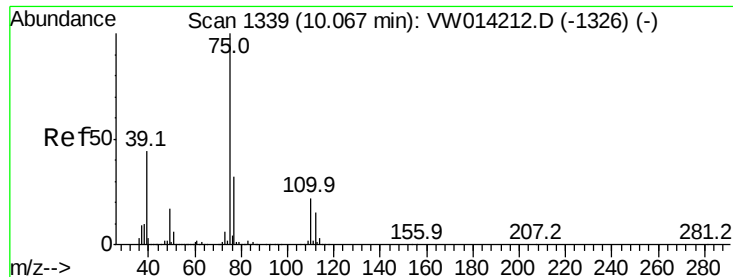
Tgt Ion: 63 Resp: 90675
 Ion Ratio Lower Upper
 63 100
 112 5.1 3.9 5.9



#41
 Bromodichloromethane
 Concen: 4.398 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW014211.D
 Acq: 05 Dec 2019 12:48

Tgt Ion: 83 Resp: 106715
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.1 83.7
 127 8.8 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 3.912 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

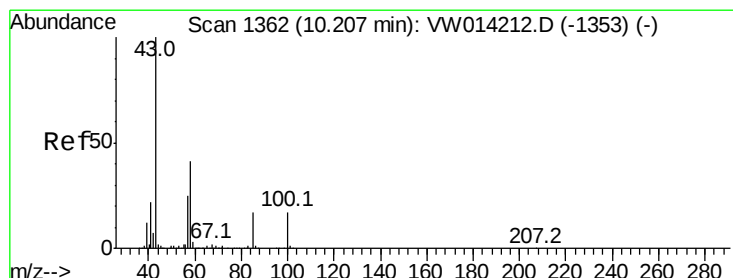
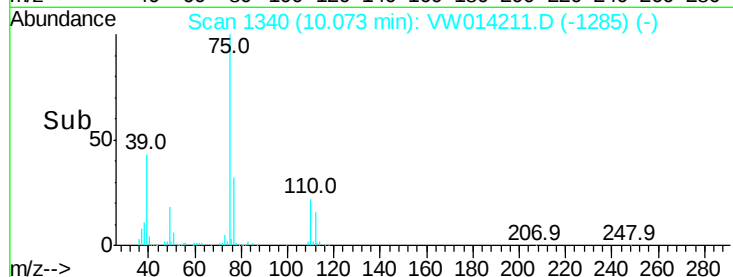
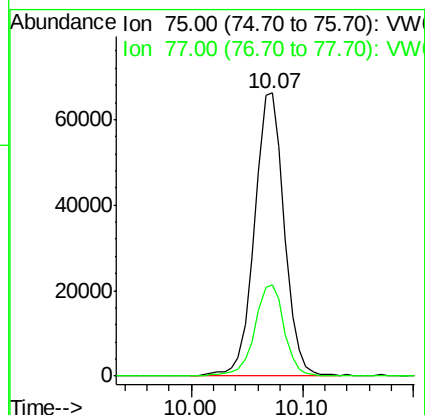
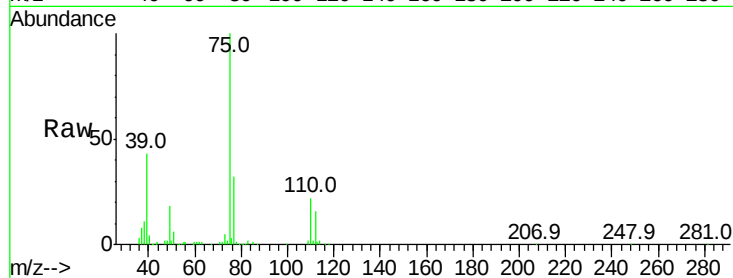
VSTD00502

Tgt Ion: 75 Resp: 123907

Ion Ratio Lower Upper

75 100

77 32.4 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 8.173 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

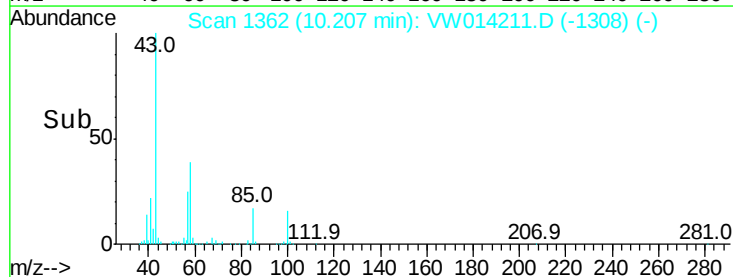
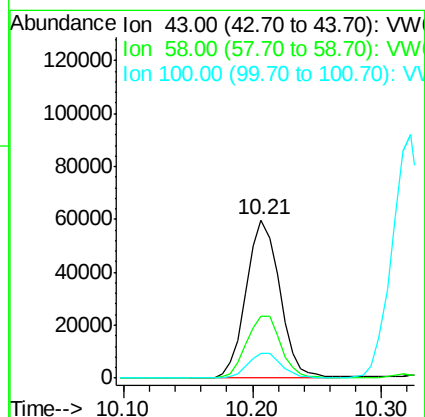
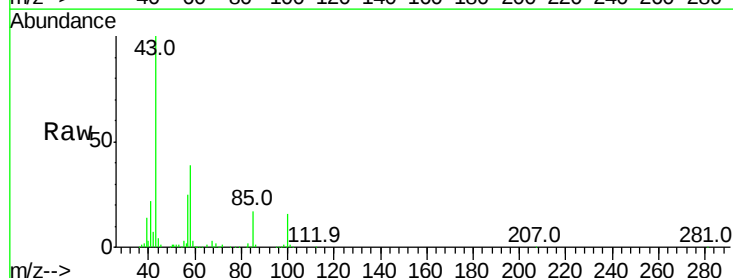
Tgt Ion: 43 Resp: 108297

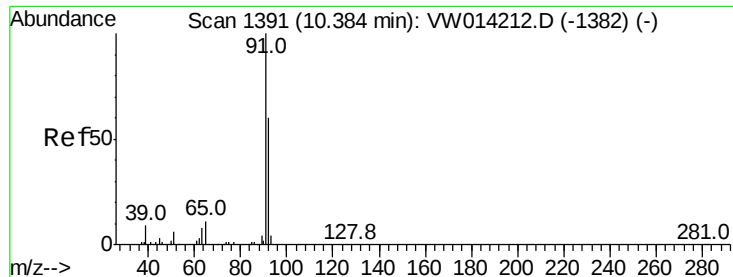
Ion Ratio Lower Upper

43 100

58 39.9 32.6 49.0

100 16.1 13.8 20.8





#44

Toluene

Concen: 3.955 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

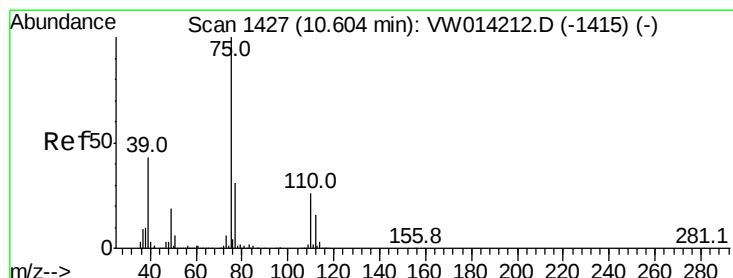
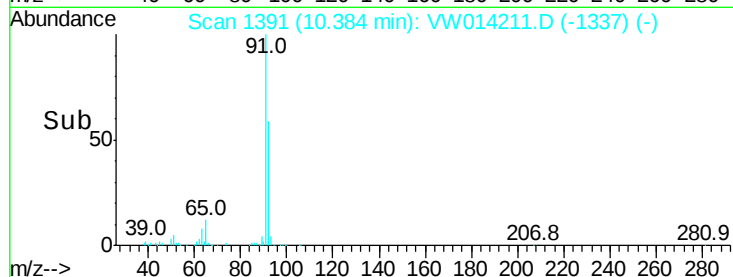
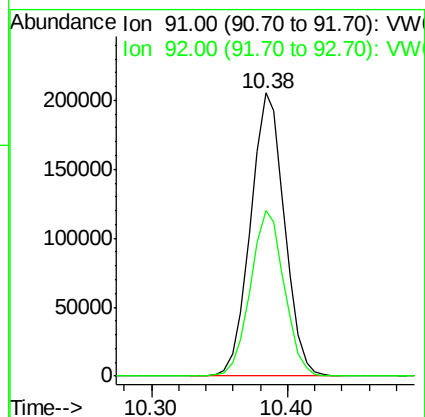
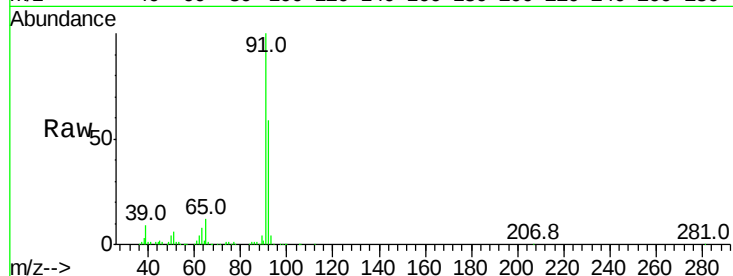
VSTD00502

Tgt Ion: 91 Resp: 359544

Ion Ratio Lower Upper

91 100

92 58.7 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 4.014 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014211.D

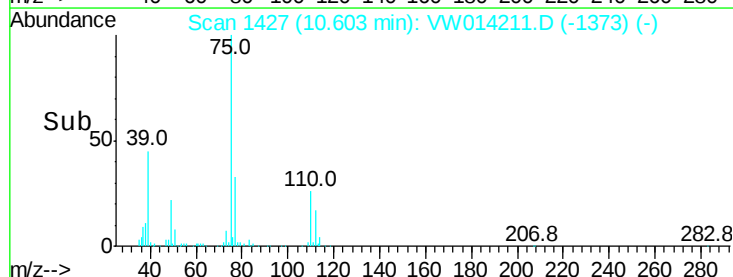
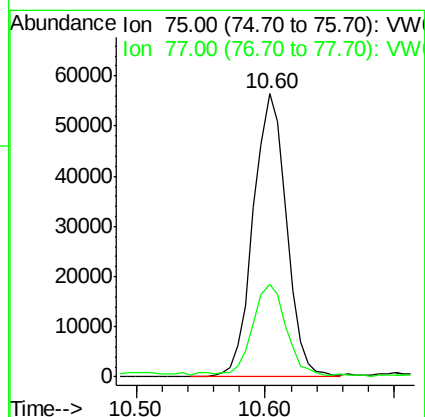
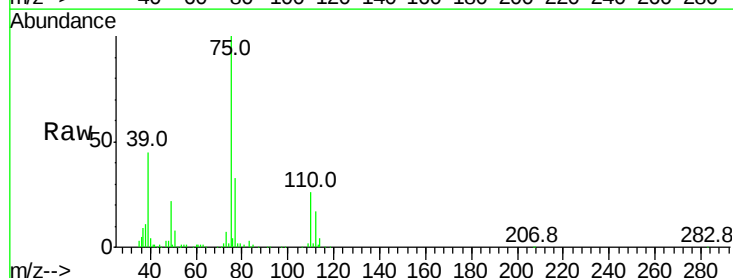
Acq: 05 Dec 2019 12:48

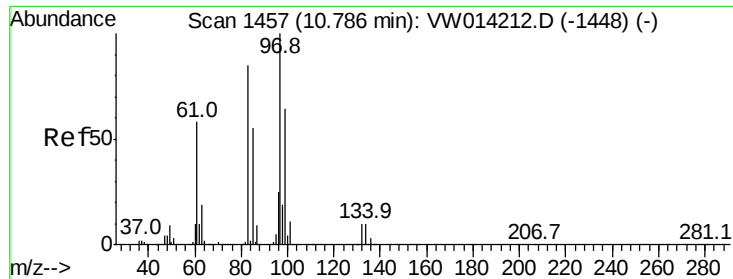
Tgt Ion: 75 Resp: 100540

Ion Ratio Lower Upper

75 100

77 32.7 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 4.470 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

Tgt Ion: 97 Resp: 65920

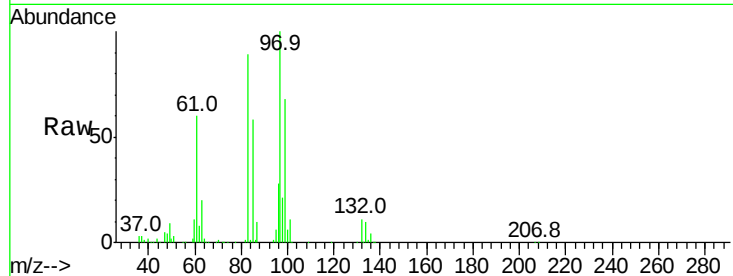
Ion Ratio Lower Upper

97 100

83 89.1 58.9 109.5

85 58.1 38.1 70.9

99 67.7 46.5 86.3

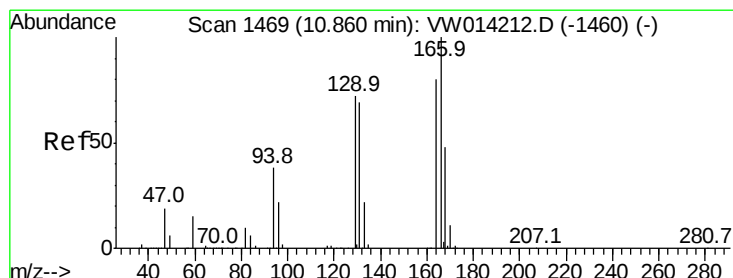
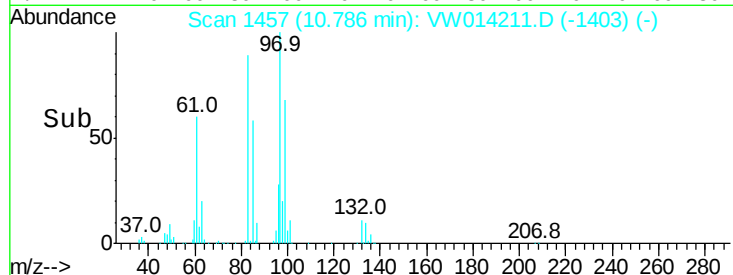
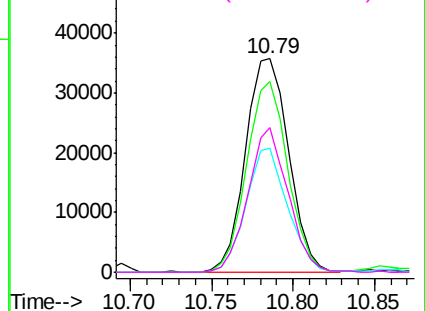


Abundance Ion 97.00 (96.70 to 97.70): VW

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: 3.685 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Tgt Ion: 164 Resp: 73042

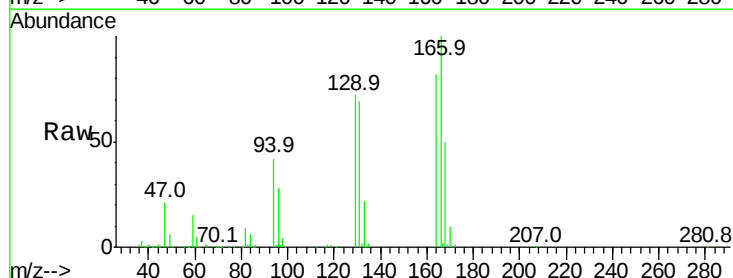
Ion Ratio Lower Upper

164 100

129 88.5 60.6 112.6

131 83.7 59.1 109.7

166 122.2 90.8 168.6

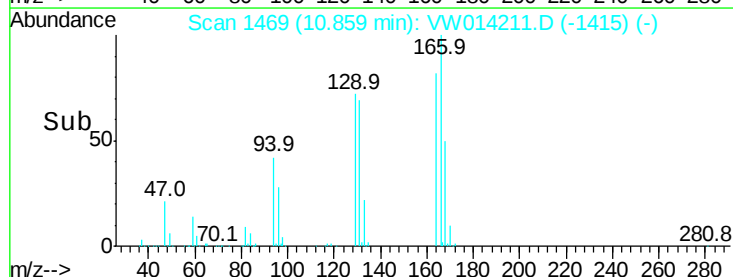
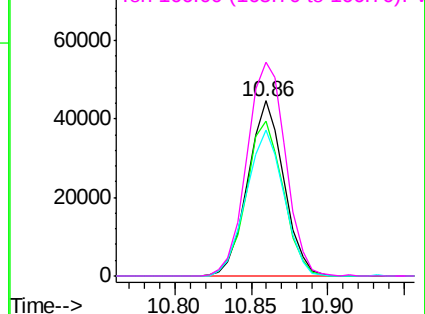


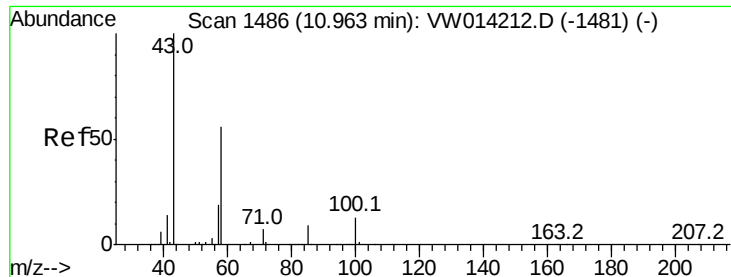
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 7.254 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

Tgt Ion: 43 Resp: 69301

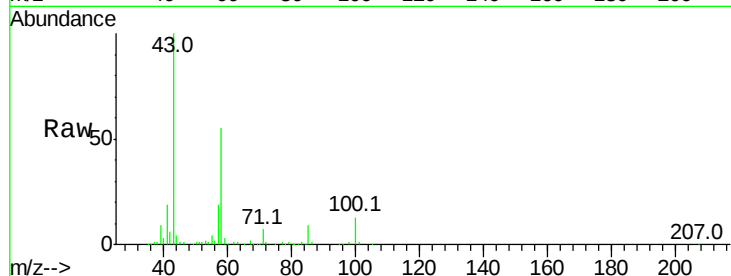
Ion Ratio Lower Upper

43 100

58 58.2 44.4 66.6

57 20.5 16.5 24.7

100 13.5 11.1 16.7

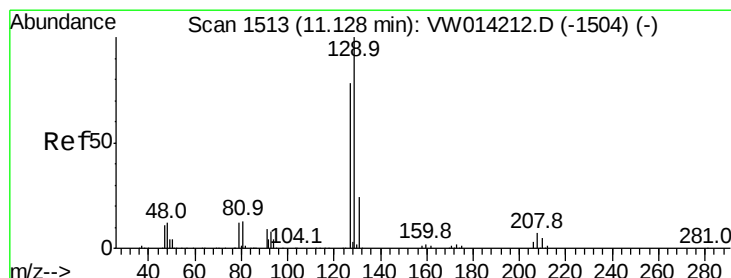
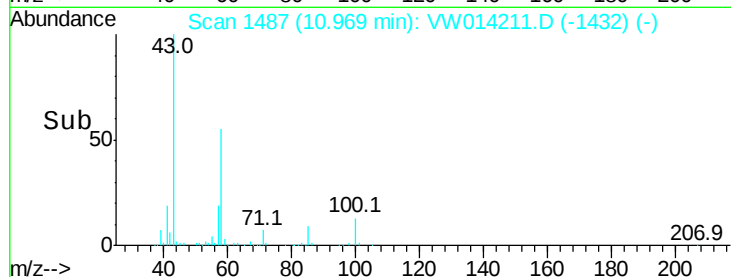
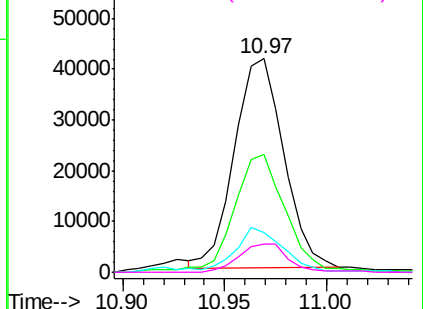


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 4.154 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW014211.D

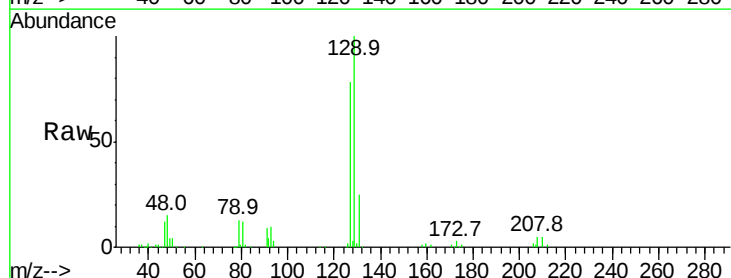
Acq: 05 Dec 2019 12:48

Tgt Ion: 129 Resp: 71996

Ion Ratio Lower Upper

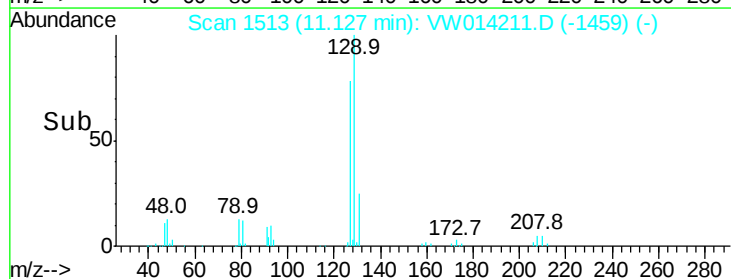
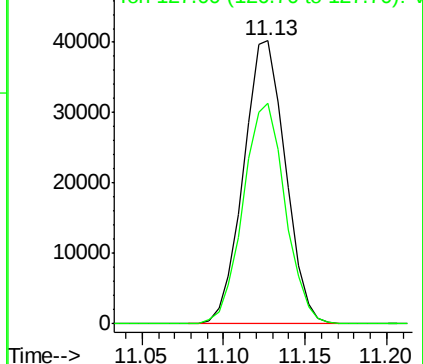
129 100

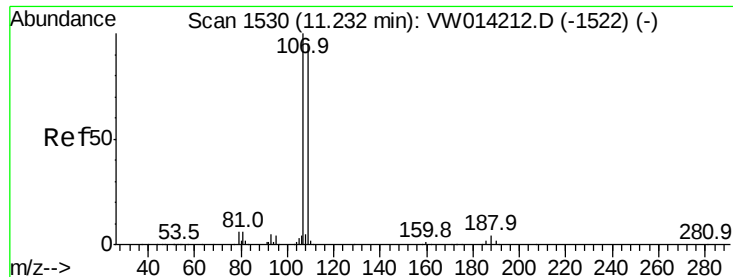
127 78.1 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

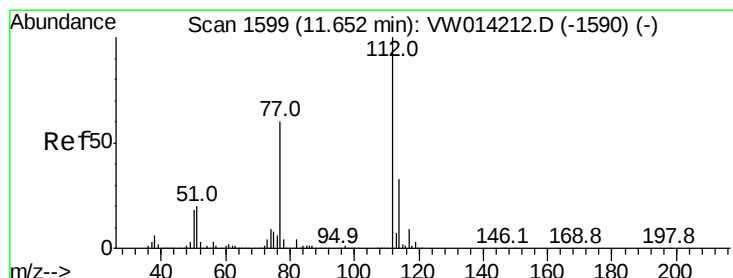
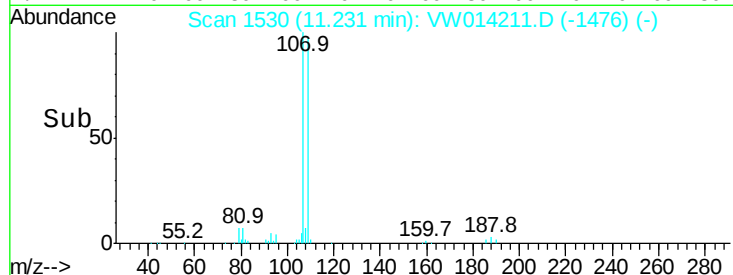
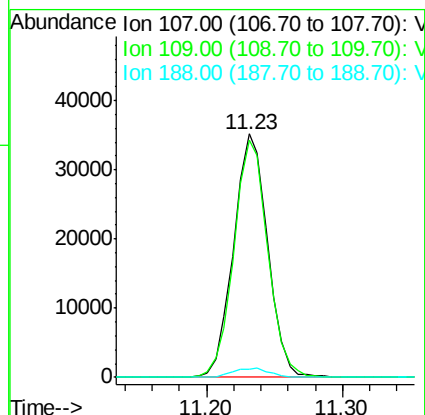
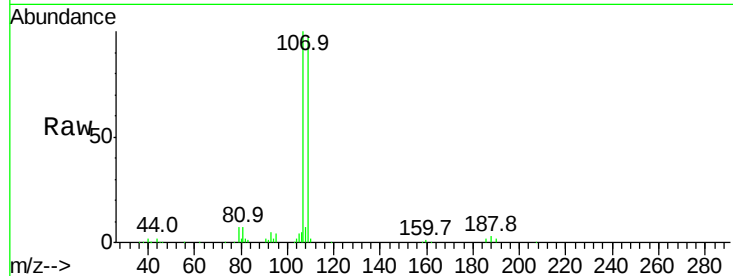




#51
1,2-Dibromoethane
Concen: 4.283 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.00 min
Lab File: VW014211.D
Acq: 05 Dec 2019 12:48

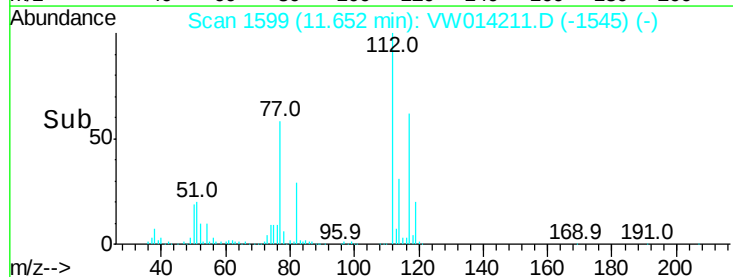
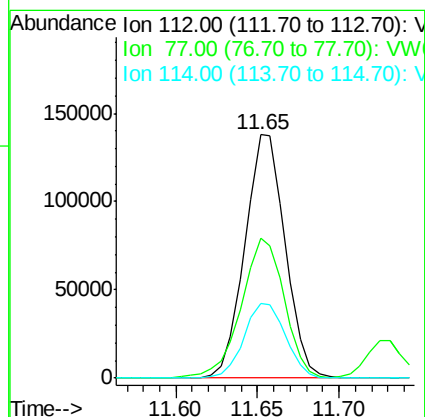
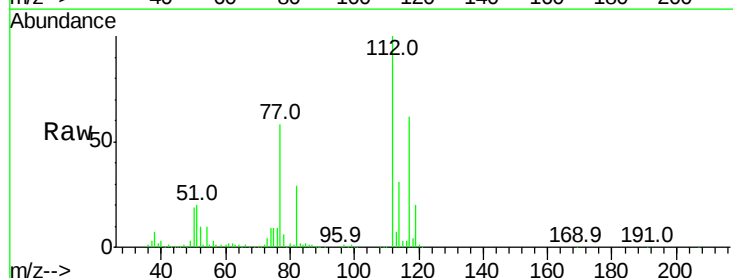
Instrument :
MSVOA_W
ClientSampleId :
VSTD00502

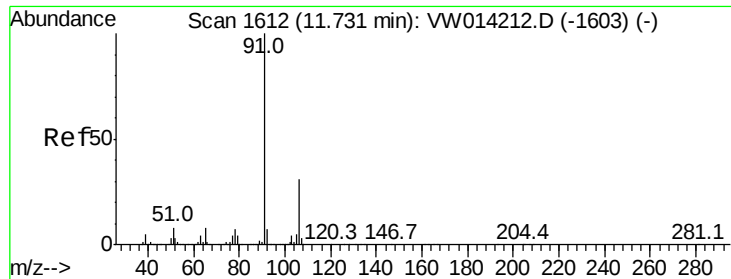
Tgt Ion:107 Resp: 61278
Ion Ratio Lower Upper
107 100
109 97.2 64.6 120.0
188 3.3 3.9 5.9#



#52
Chlorobenzene
Concen: 4.172 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. -0.00 min
Lab File: VW014211.D
Acq: 05 Dec 2019 12:48

Tgt Ion:112 Resp: 237756
Ion Ratio Lower Upper
112 100
77 57.7 42.2 63.4
114 30.7 22.5 41.9





#53

Ethylbenzene

Concen: 3.840 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

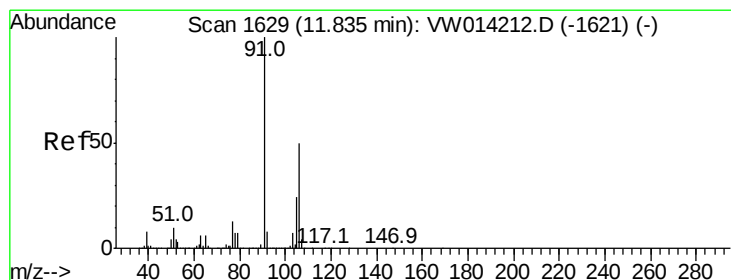
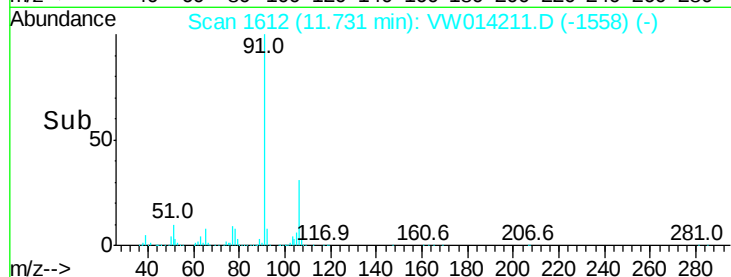
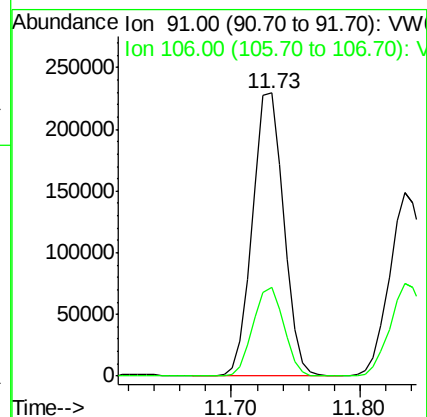
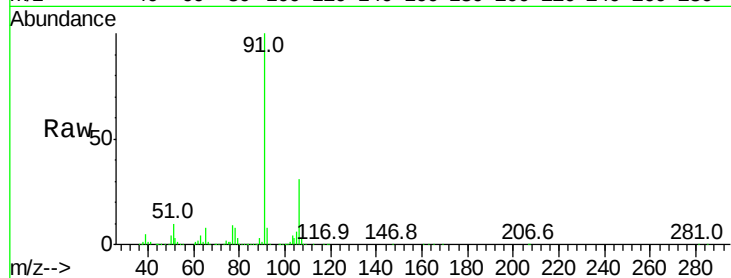
VSTD00502

Tgt Ion: 91 Resp: 382993

Ion Ratio Lower Upper

91 100

106 31.3 22.3 41.5



#54

m,p-Xylene

Concen: 3.740 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014211.D

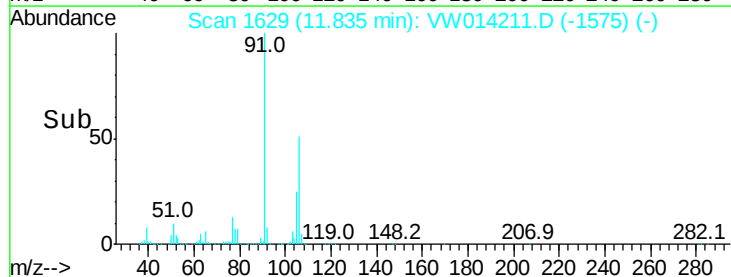
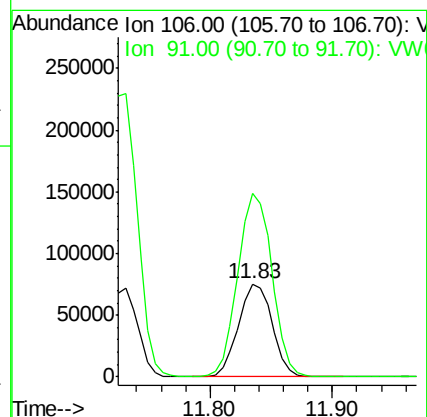
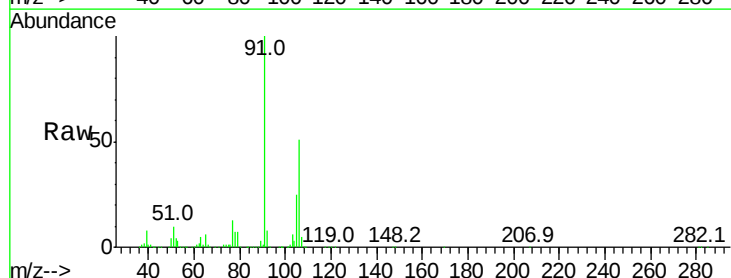
Acq: 05 Dec 2019 12:48

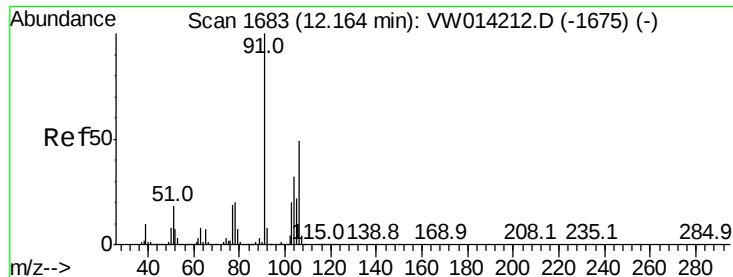
Tgt Ion: 106 Resp: 144972

Ion Ratio Lower Upper

106 100

91 197.4 138.7 257.5





#55

o-xylene

Concen: 3.752 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

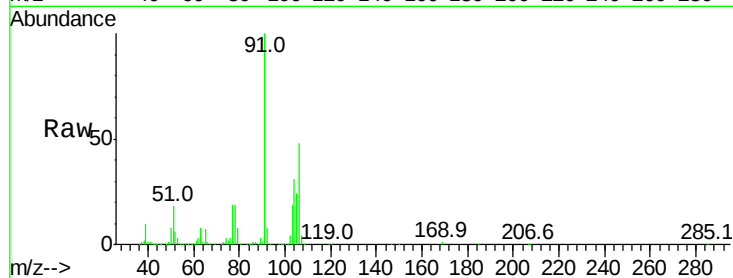
VSTD00502

Tgt Ion:106 Resp: 136188

Ion Ratio Lower Upper

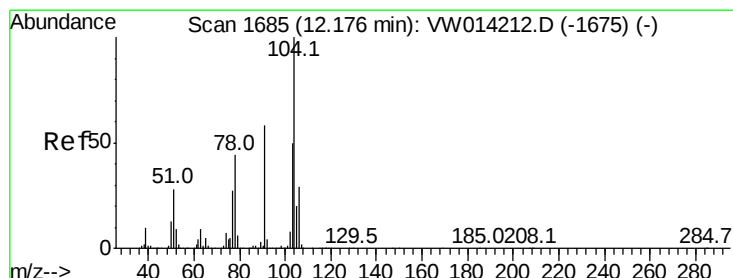
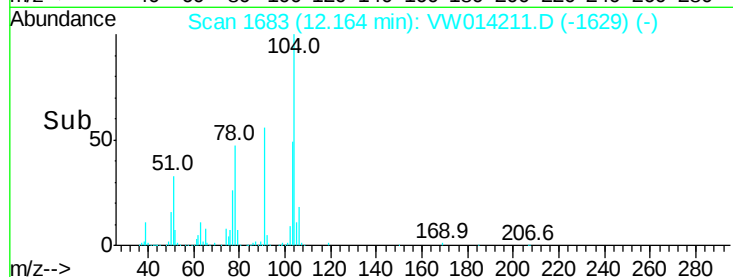
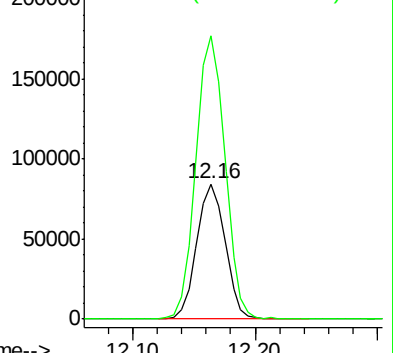
106 100

91 209.5 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 3.812 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW014211.D

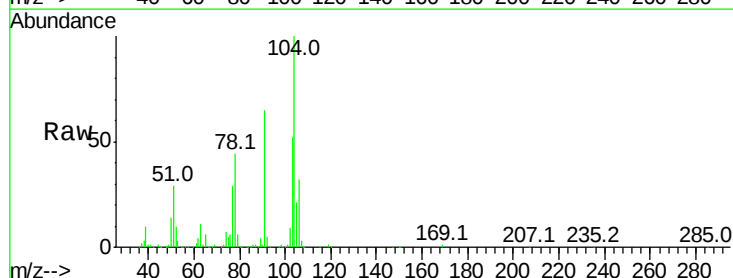
Acq: 05 Dec 2019 12:48

Tgt Ion:104 Resp: 233781

Ion Ratio Lower Upper

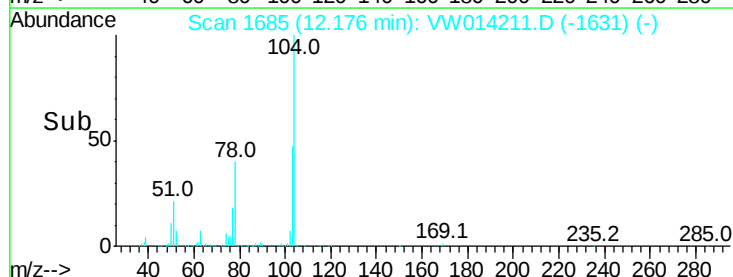
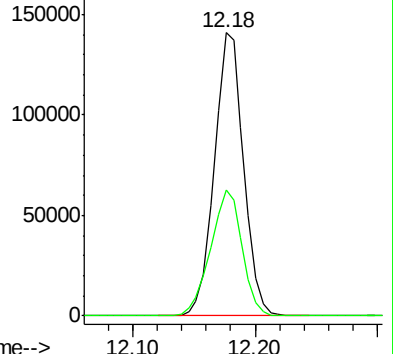
104 100

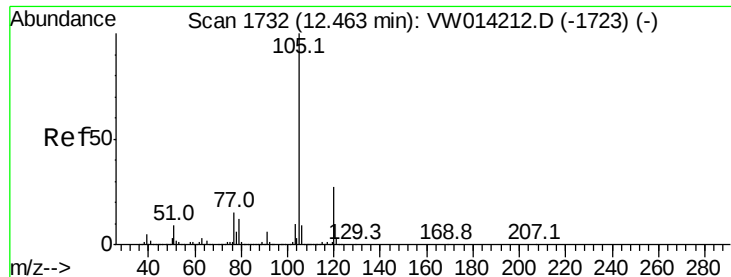
78 44.4 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 3.568 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

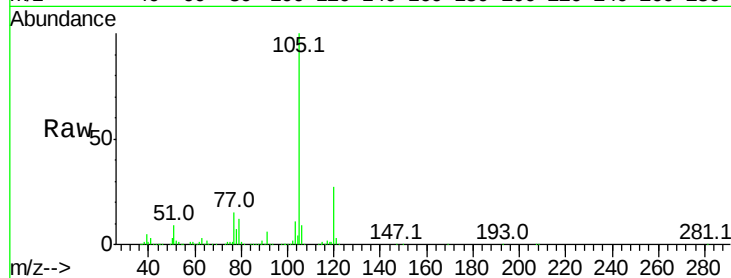
Tgt Ion: 105 Resp: 356151

Ion Ratio Lower Upper

105 100

120 26.8 21.6 32.4

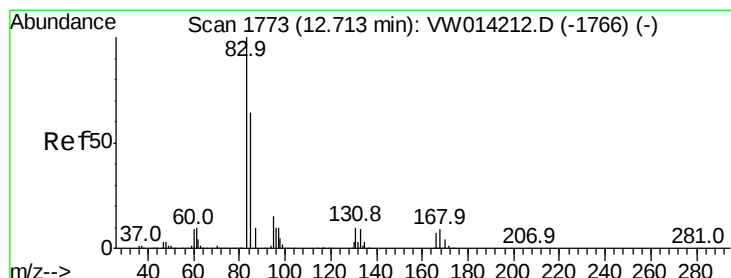
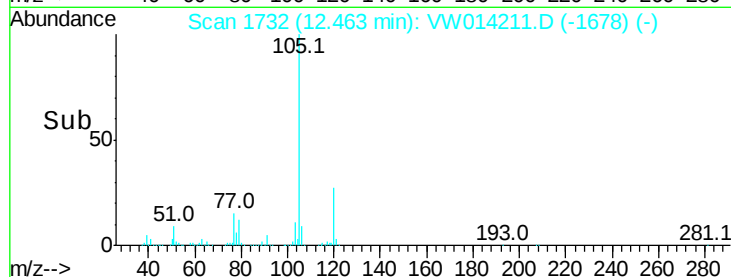
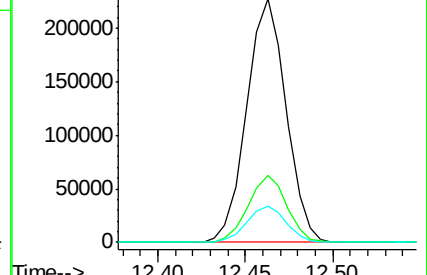
77 15.2 11.6 17.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.719 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

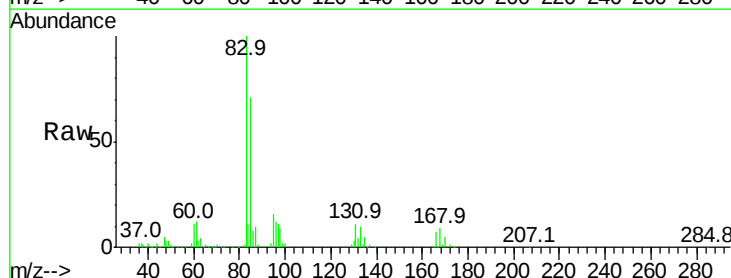
Tgt Ion: 83 Resp: 81240

Ion Ratio Lower Upper

83 100

85 71.5 43.7 81.1

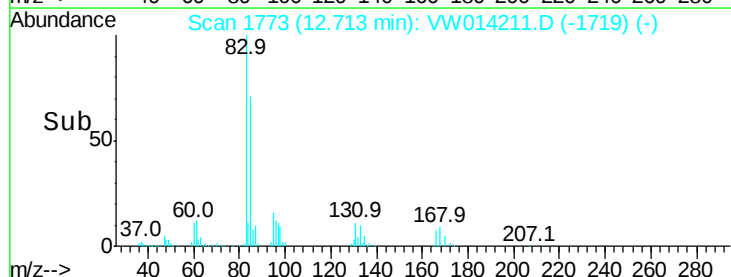
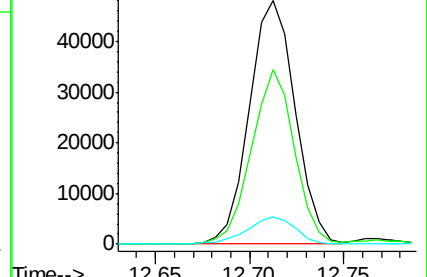
131 11.0 8.2 12.2

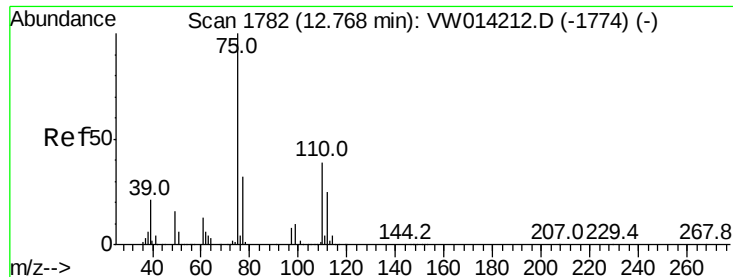


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.750 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

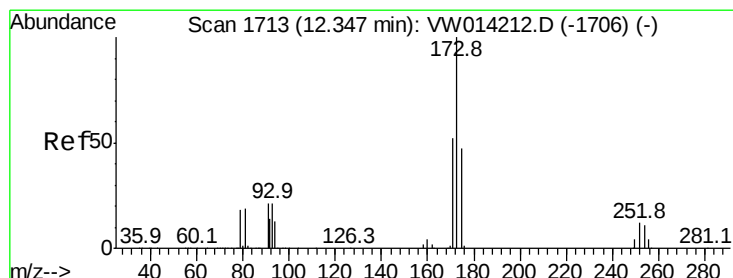
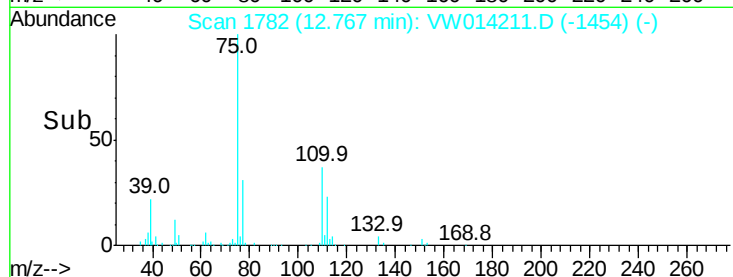
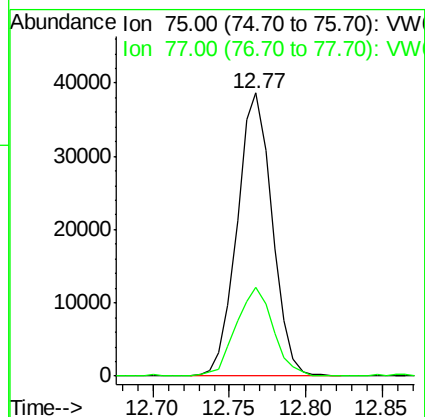
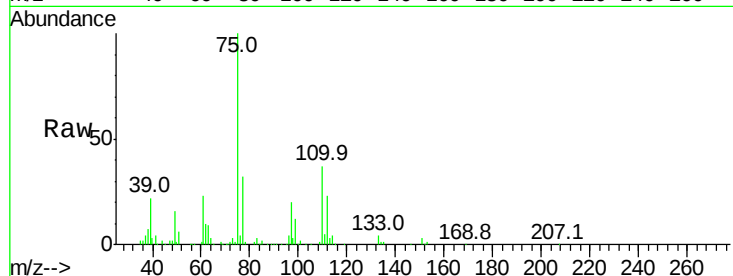
VSTD00502

Tgt Ion: 75 Resp: 61509

Ion Ratio Lower Upper

75 100

77 33.5 25.9 38.9



#62

Bromoform

Concen: 4.782 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

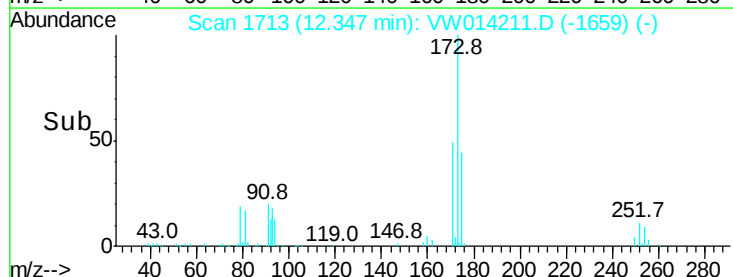
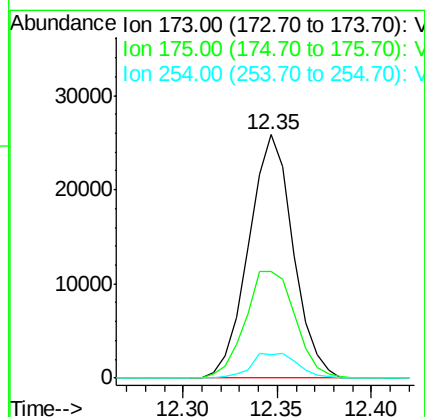
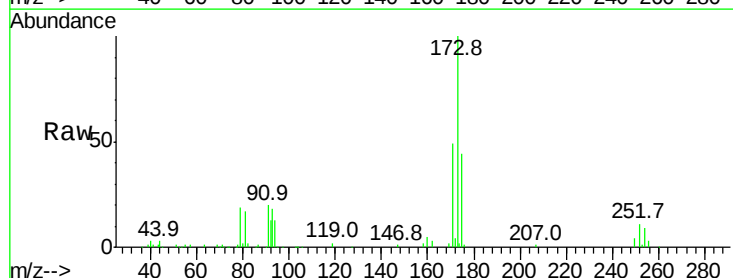
Tgt Ion: 173 Resp: 42335

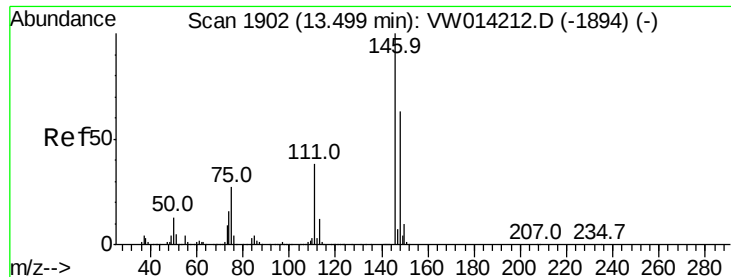
Ion Ratio Lower Upper

173 100

175 49.5 38.8 58.2

254 10.7 9.4 14.0





#63

1,3-Dichlorobenzene

Concen: 4.599 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampled :

VSTD00502

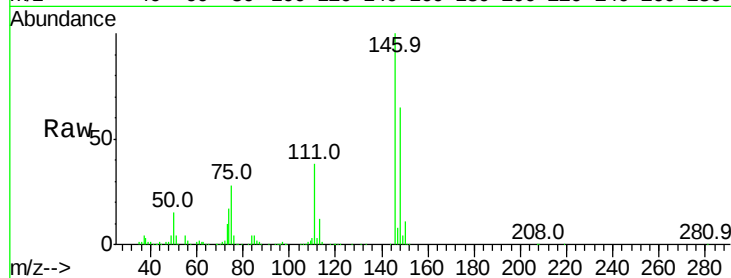
Tgt Ion:146 Resp: 174426

Ion Ratio Lower Upper

146 100

111 38.0 26.0 48.2

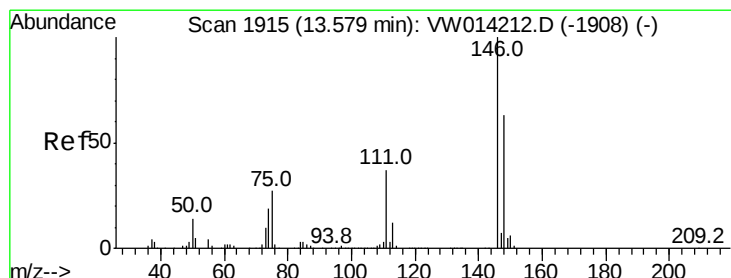
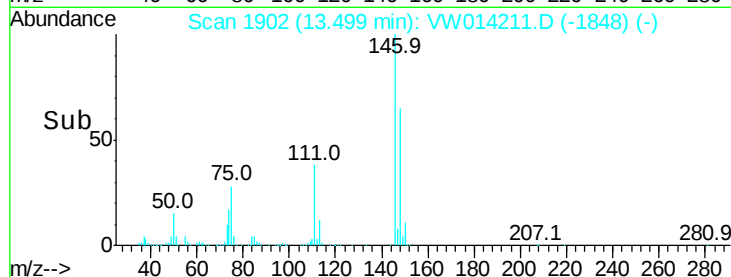
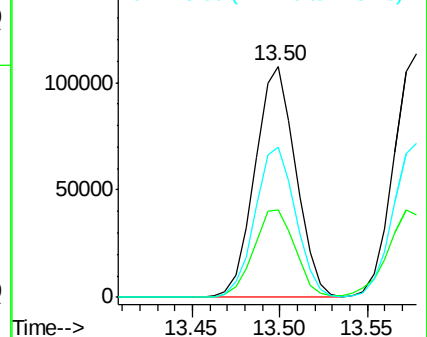
148 65.1 44.7 82.9



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: 4.890 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

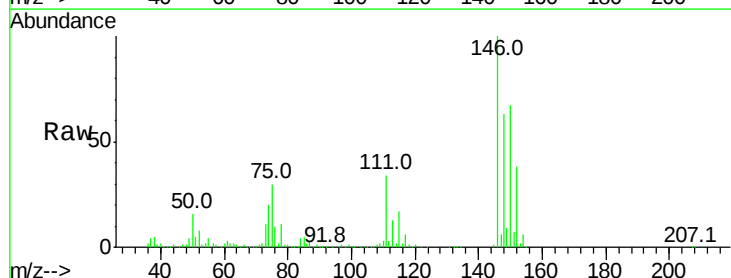
Tgt Ion:146 Resp: 183253

Ion Ratio Lower Upper

146 100

111 33.7 24.9 46.3

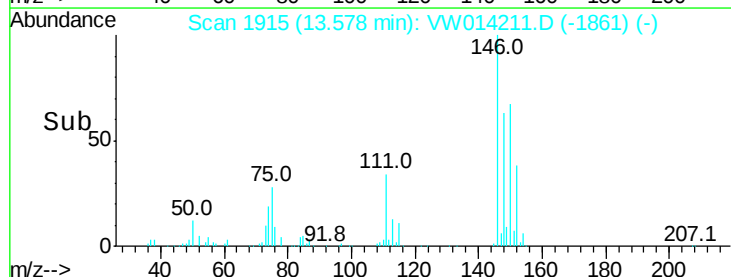
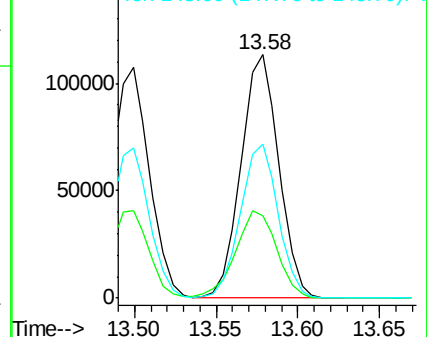
148 63.1 43.9 81.5

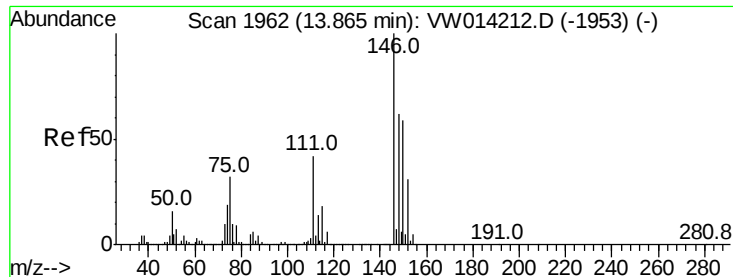


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

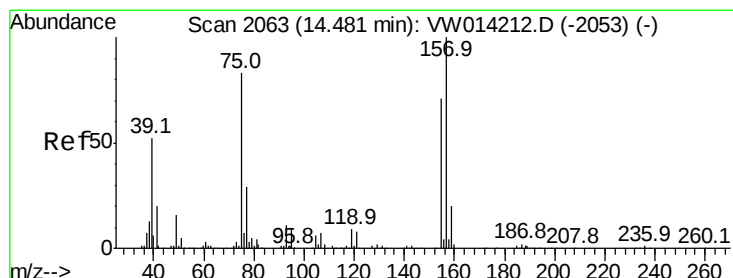
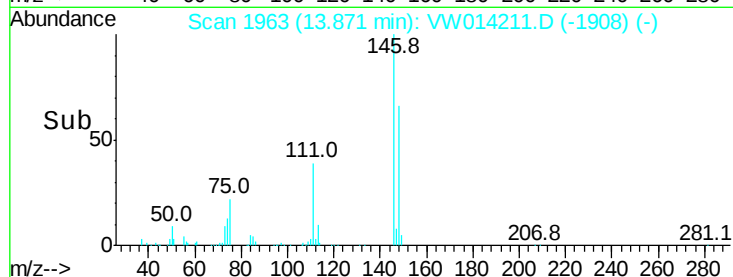
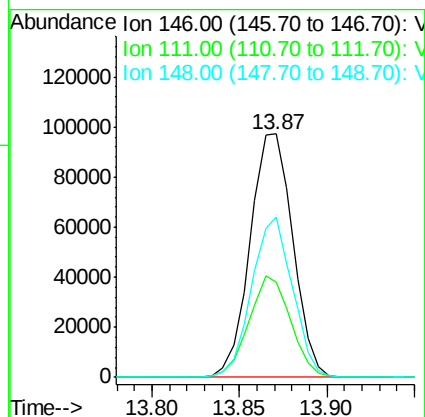
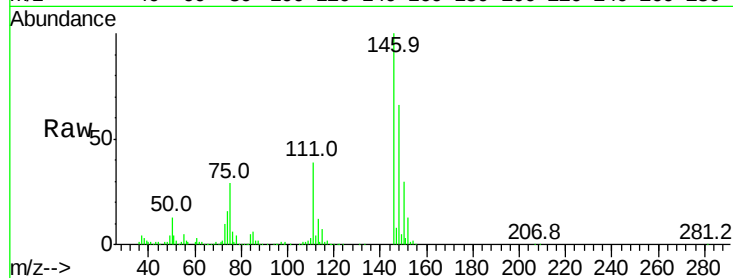




#65
 1,2-Dichlorobenzene
 Concen: 4.922 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.01 min
 Lab File: VW014211.D
 Acq: 05 Dec 2019 12:48

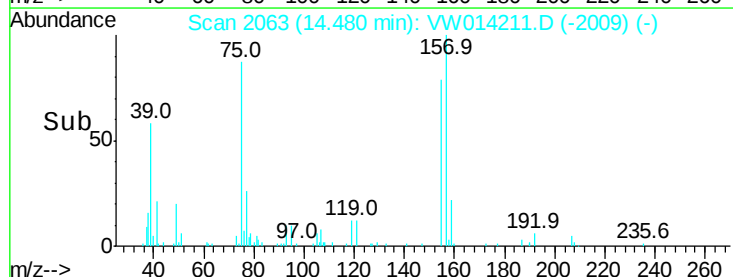
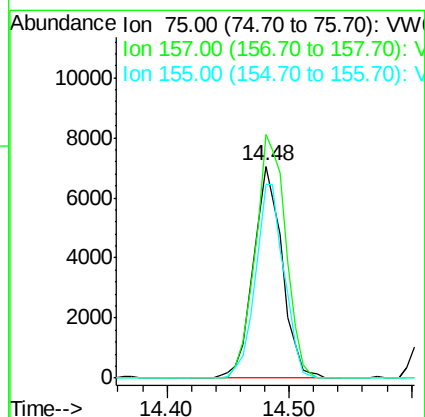
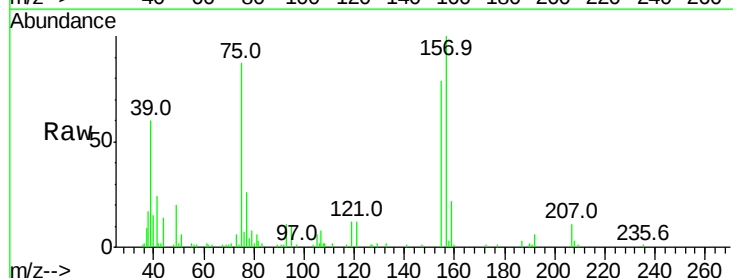
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

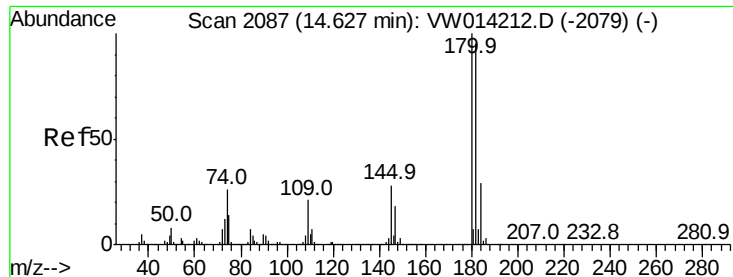
Tgt Ion: 146 Resp: 165333
 Ion Ratio Lower Upper
 146 100
 111 38.9 30.5 45.7
 148 65.8 49.4 74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.068 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014211.D
 Acq: 05 Dec 2019 12:48

Tgt Ion: 75 Resp: 11593
 Ion Ratio Lower Upper
 75 100
 157 115.0 96.9 145.3
 155 91.2 82.9 124.3

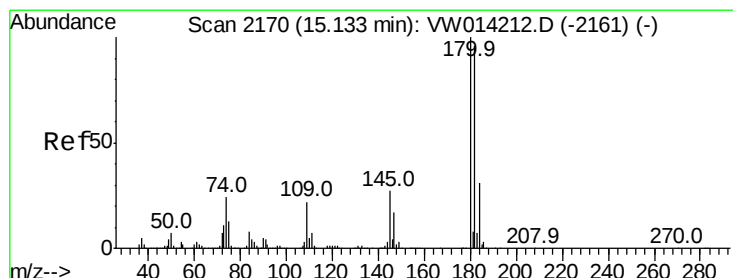
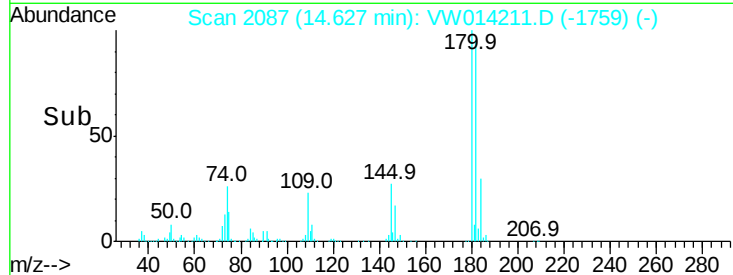
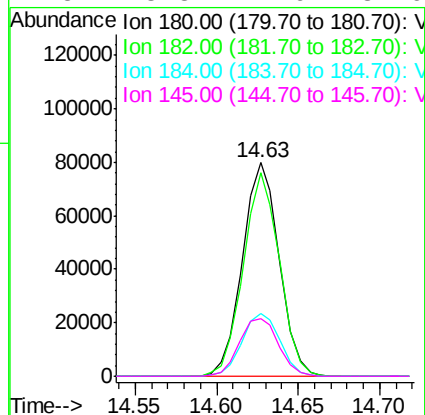
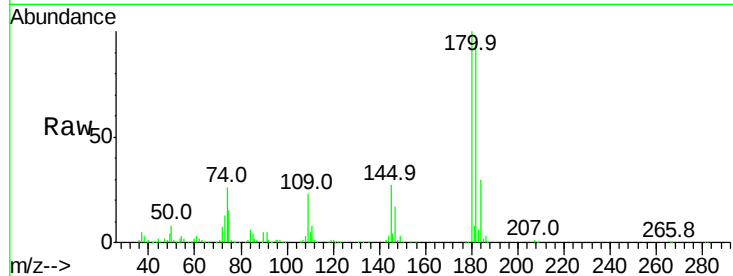




#67
 1,3,5-Trichlorobenzene
 Concen: 4.325 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014211.D
 Acq: 05 Dec 2019 12:48

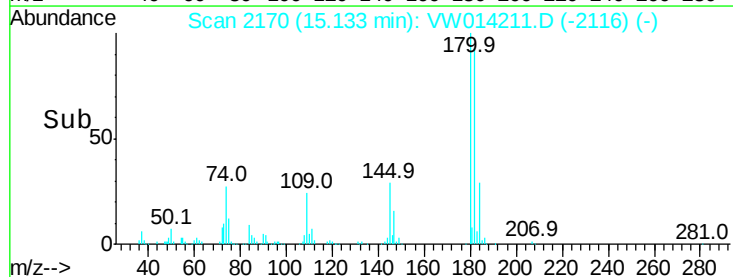
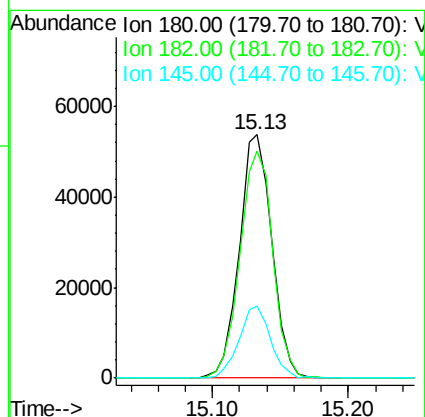
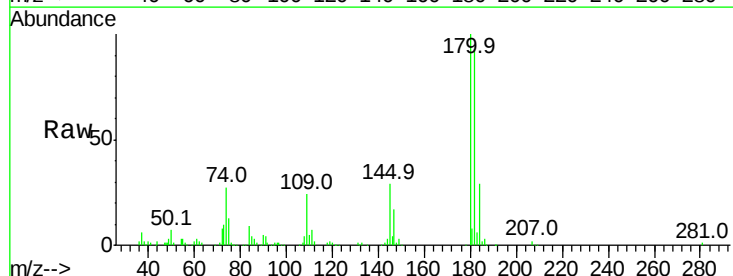
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00502

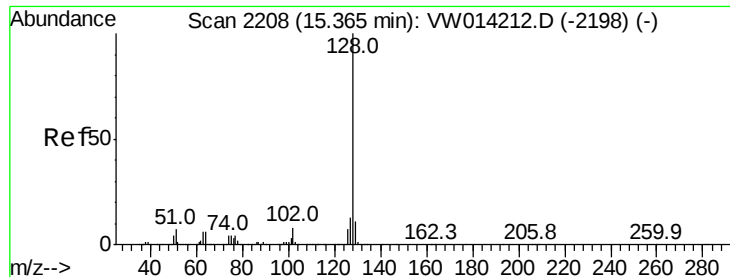
Tgt Ion:	180	Resp:	125026
Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.2	114.2
184	30.4	24.3	36.5
145	28.8	21.9	32.9



#68
 1,2,4-trichlorobenzene
 Concen: 3.956 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014211.D
 Acq: 05 Dec 2019 12:48

Tgt Ion:	180	Resp:	89909
Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.8	113.8
145	28.7	22.4	33.6





#69

Naphthalene

Concen: 3.558 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

Instrument :

MSVOA_W

ClientSampleId :

VSTD00502

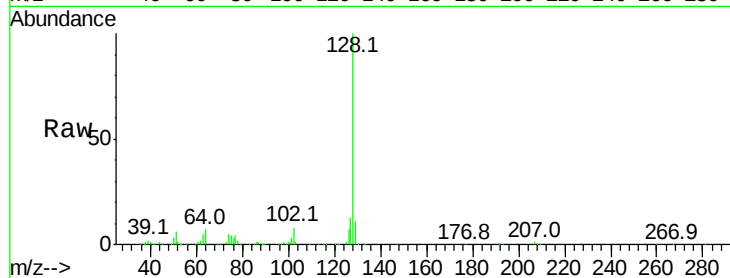
Tgt Ion:128 Resp: 143669

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

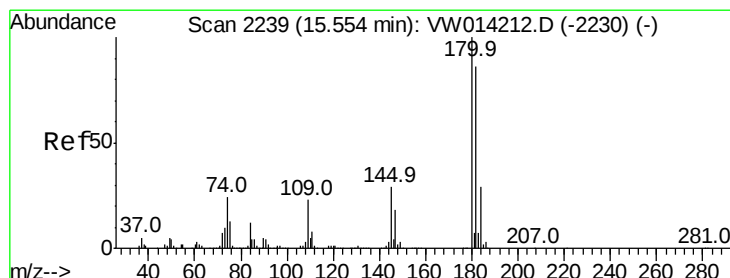
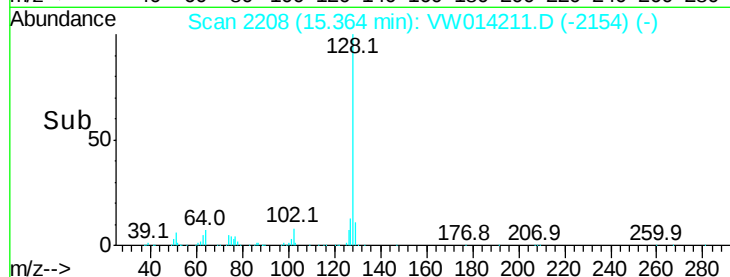
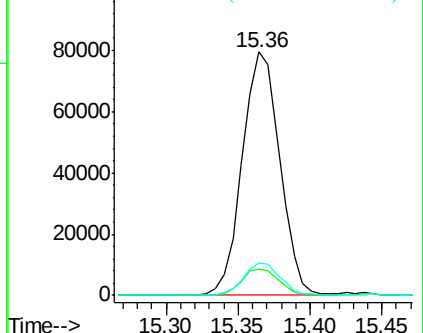
127 13.2 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.350 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.01 min

Lab File: VW014211.D

Acq: 05 Dec 2019 12:48

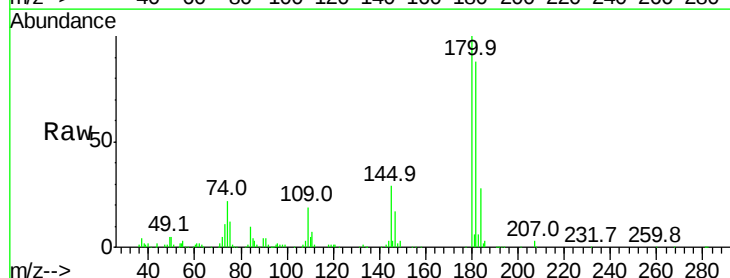
Tgt Ion:180 Resp: 87250

Ion Ratio Lower Upper

180 100

182 91.7 75.8 113.6

145 29.6 24.0 36.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

