

Data File : VW014478.D
Acq On : 27 Dec 2019 19:54
Operator : SY/VA
Sample : VSTD050
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD05005

Quant Time: Dec 27 20:34:00 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122719S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 27 20:30:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1230636	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1090107	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	539110	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	829429	44.51	ug/L	0.00
7) Chloroethane-d5	2.88	69	660615	47.68	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	1588150	48.25	ug/L	0.00
20) 2-Butanone-d5	7.07	46	434968	89.57	ug/L	0.00
24) Chloroform-d	7.64	84	1509713	48.18	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.30	65	777746	47.34	ug/L	0.00
29) Benzene-d6	8.27	84	3193930	49.99	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	968196	49.26	ug/L	0.00
37) Toluene-d8	10.32	98	2950078	51.07	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.57	79	415255	50.36	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	351491	89.93	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	716426	44.73	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	982153	47.68	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	524717	44.830	ug/L	98
3) Chloromethane	2.21	50	504539	42.879	ug/L	99
5) Vinyl chloride	2.36	62	801387	45.998	ug/L	100
6) Bromomethane	2.78	94	470303	43.764	ug/L	100
8) Chloroethane	2.92	64	465596	46.778	ug/L	98
9) Trichlorofluoromethane	3.25	101	457892	53.089	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	743163	45.784	ug/L	100
13) Acetone	4.11	43	394726	84.306	ug/L	98
14) Carbon disulfide	4.38	76	2282187	45.280	ug/L	99
15) Methyl Acetate	4.66	43	358170	40.443	ug/L	100
16) Methylene chloride	4.91	84	780122	41.352	ug/L	97
17) Methyl tert-butyl Ether	5.42	73	977778	45.118	ug/L	100
18) trans-1,2-Dichloroethene	5.42	96	788102	44.781	ug/L	98
19) 1,1-Dichloroethane	6.21	63	1415922	44.780	ug/L	99
21) 2-Butanone	7.16	43	535656	85.215	ug/L	100
22) cis-1,2-Dichloroethene	7.16	96	845700	45.161	ug/L	99
23) Bromochloromethane	7.51	128	359194	41.699	ug/L	98
25) Chloroform	7.67	83	1354175	44.073	ug/L	100
27) 1,2-Dichloroethane	8.40	62	861834	42.835	ug/L	98
30) Cyclohexane	7.95	56	1415212	52.012	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	1075837	49.142	ug/L	99
32) Carbon tetrachloride	8.06	117	1001034	48.190	ug/L	100
34) Benzene	8.32	78	3183870	46.128	ug/L	100
35) Trichloroethene	9.09	95	816639	46.242	ug/L	99
36) Methylcyclohexane	9.34	83	1486742	50.099	ug/L	99
40) 1,2-Dichloropropane	9.37	63	793955	44.774	ug/L	100
41) Bromodichloromethane	9.64	83	978949	45.427	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	1272912	47.934	ug/L	96
43) 4-Methyl-2-pentanone	10.21	43	1003555	85.825	ug/L	99
44) Toluene	10.38	91	3393088	46.890	ug/L	97

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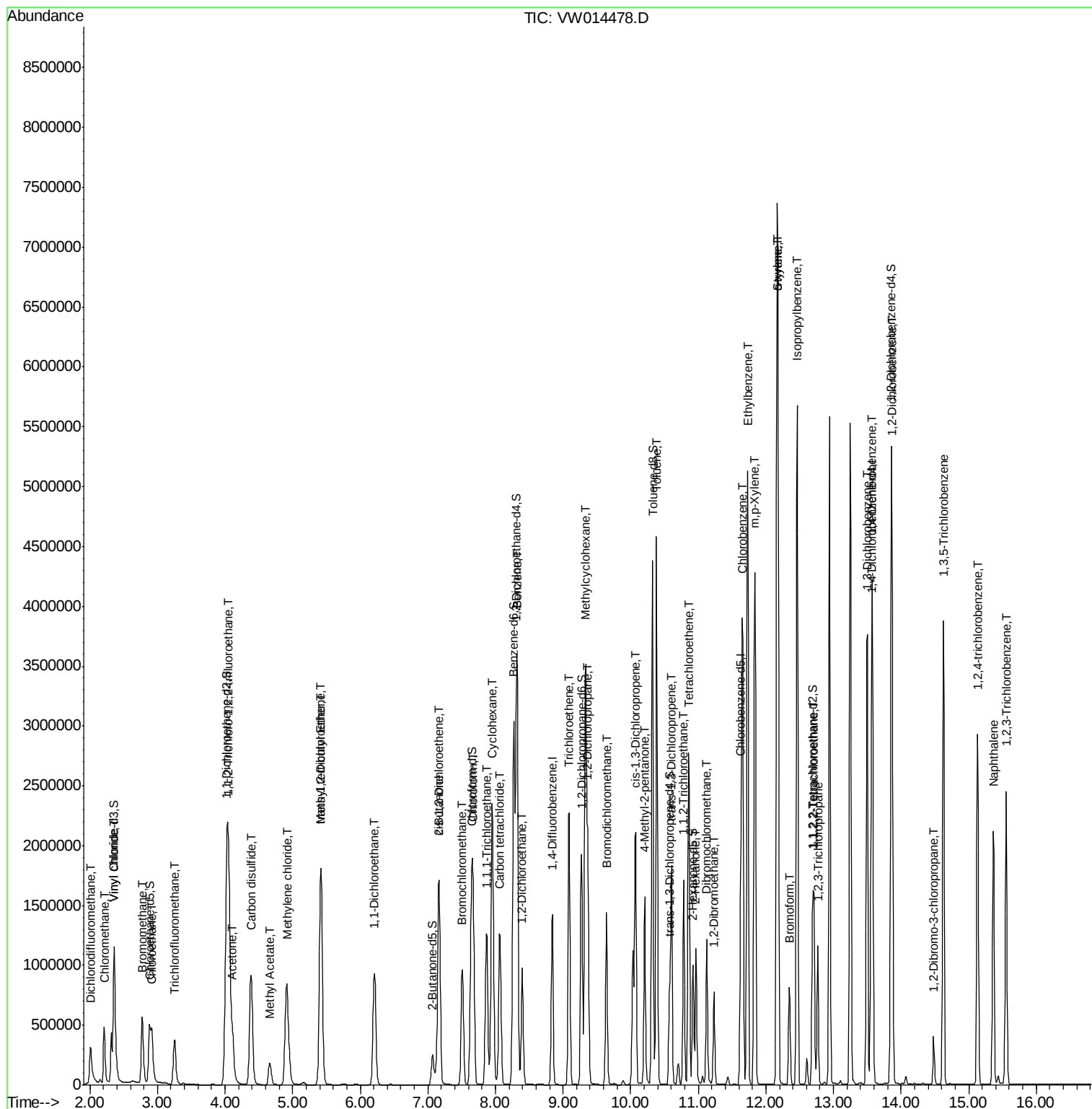
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	10.60	75	996690	46.366	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	562208	42.310	ug/L	99
47) Tetrachloroethene	10.86	164	677064	45.998	ug/L	95
49) 2-Hexanone	10.96	43	728266	87.482	ug/L	100
50) Dibromochloromethane	11.13	129	664553	44.561	ug/L	95
51) 1,2-Dibromoethane	11.23	107	535653	42.558	ug/L	99
52) Chlorobenzene	11.66	112	2088093	44.648	ug/L	98
53) Ethylbenzene	11.73	91	3736466	47.586	ug/L	100
54) m,p-Xylene	11.83	106	1435248	47.518	ug/L	97
55) o-xylene	12.16	106	1363033	47.577	ug/L	98
56) Styrene	12.18	104	2305268	47.035	ug/L	100
57) Isopropylbenzene	12.46	105	3658282	49.186	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	672078	40.751	ug/L	100
59) 1,2,3-Trichloropropane	12.77	75	495702	40.449	ug/L	99
62) Bromoform	12.35	173	385832	42.168	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	1639255	45.239	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	1607231	43.657	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	1478702	43.883	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	104921	40.363	ug/L	96
67) 1,3,5-Trichlorobenzene	14.63	180	1248472	47.889	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	1016835	50.032	ug/L	99
69) Naphthalene	15.36	128	1836359	48.047	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	889355	46.664	ug/L	99

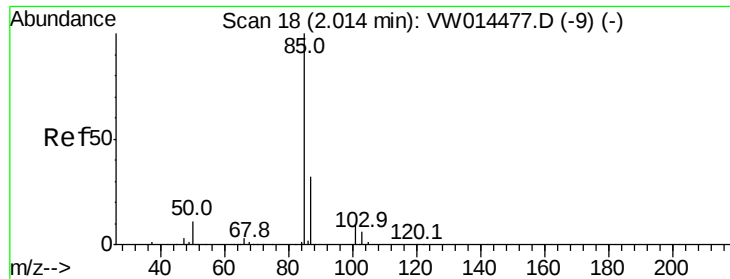
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.830 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

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Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

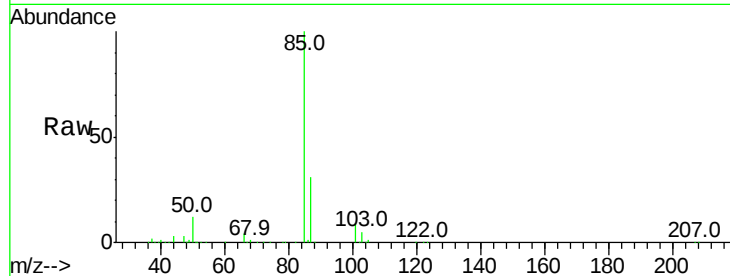
VSTD05005

Tgt Ion: 85 Resp: 524717

Ion Ratio Lower Upper

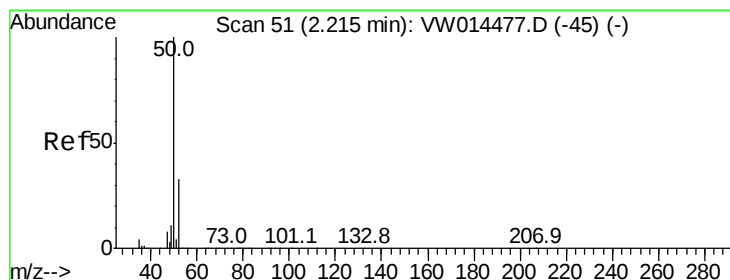
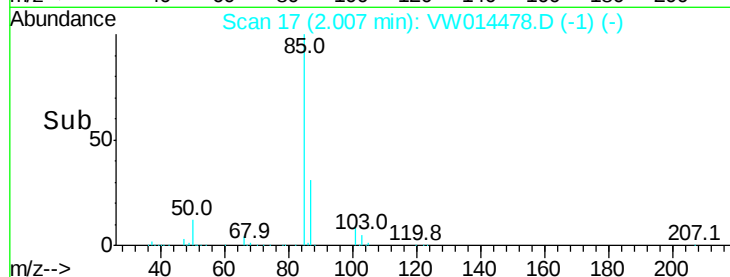
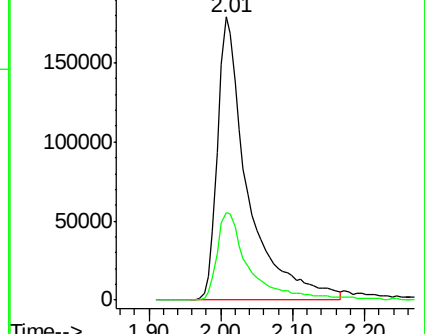
85 100

87 31.5 21.5 39.9



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 42.879 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW014478.D

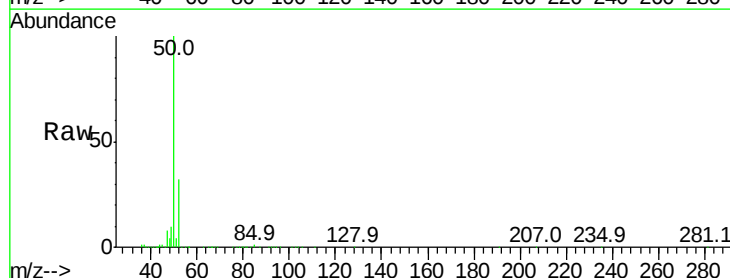
Acq: 27 Dec 2019 19:54

Tgt Ion: 50 Resp: 504539

Ion Ratio Lower Upper

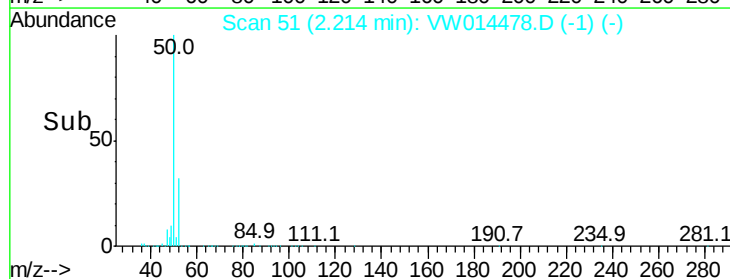
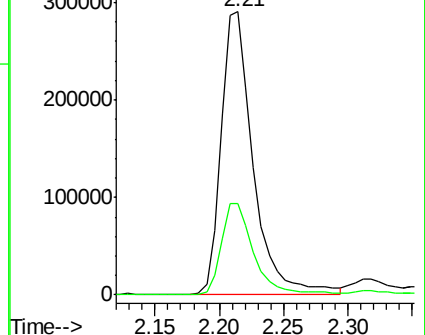
50 100

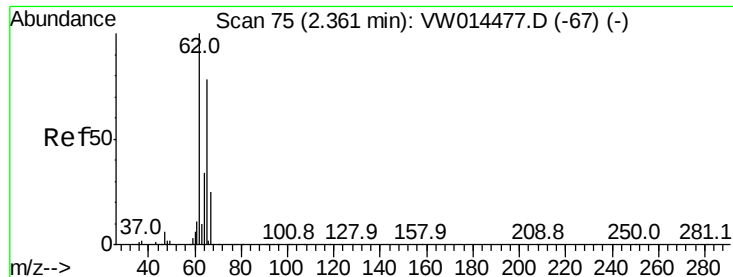
52 32.4 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 45.998 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

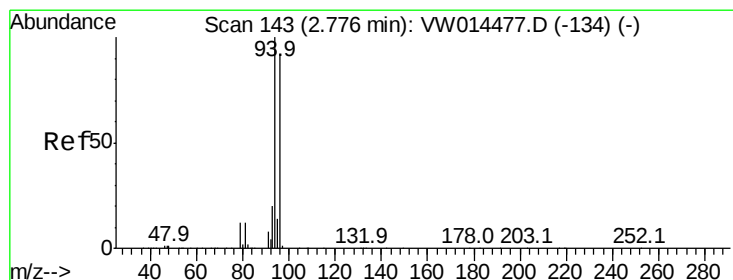
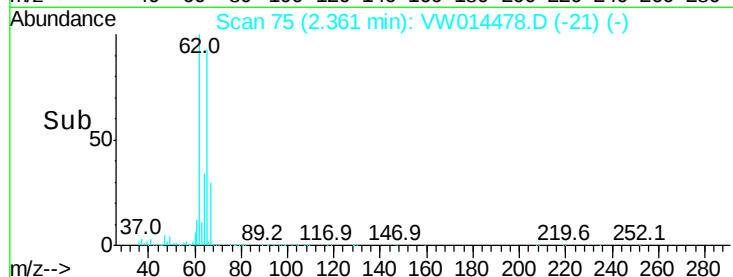
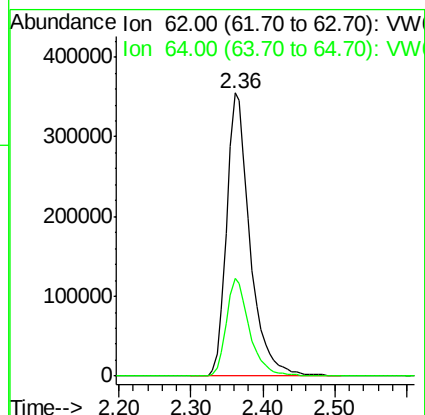
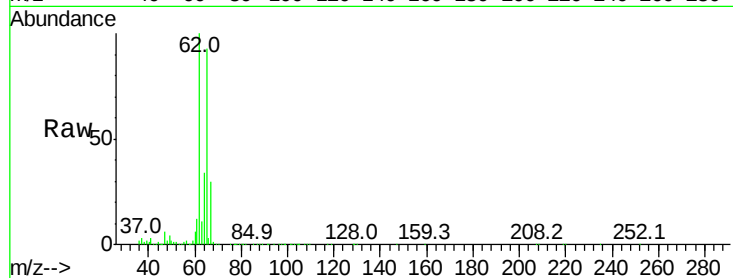
VSTD05005

Tgt Ion: 62 Resp: 801387

Ion Ratio Lower Upper

62 100

64 34.5 24.1 44.8



#6

Bromomethane

Concen: 43.764 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW014478.D

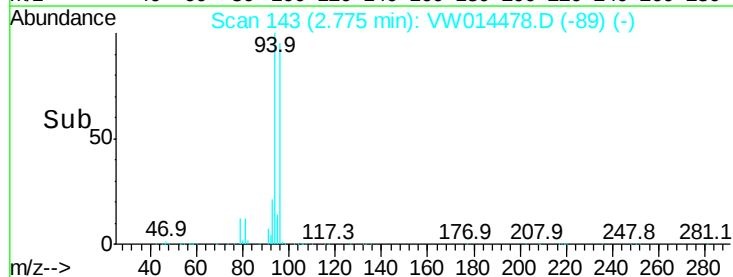
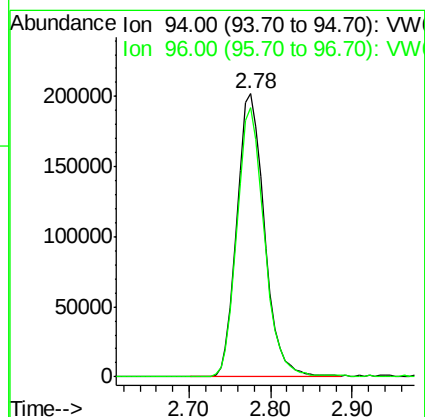
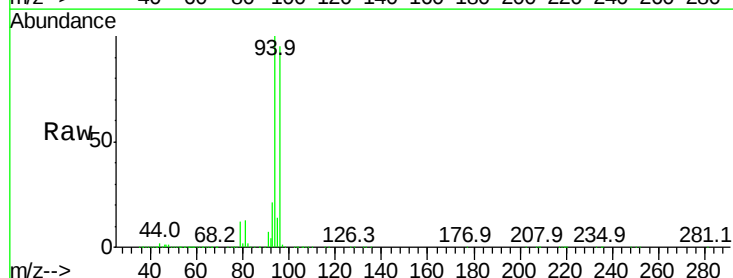
Acq: 27 Dec 2019 19:54

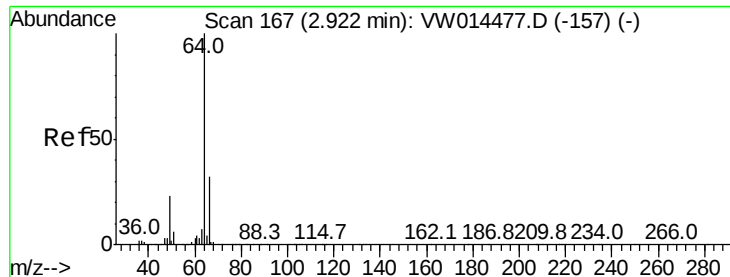
Tgt Ion: 94 Resp: 470303

Ion Ratio Lower Upper

94 100

96 94.1 9.4 178.8





#8

Chloroethane

Concen: 46.778 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

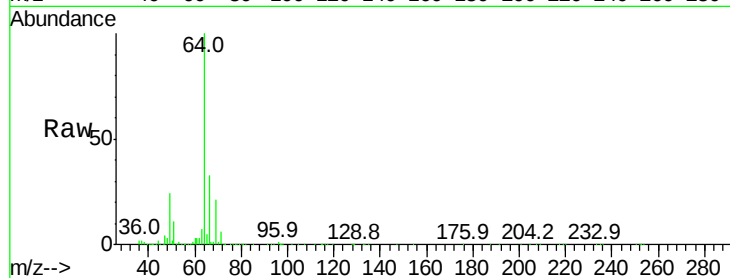
VSTD05005

Tgt Ion: 64 Resp: 465596

Ion Ratio Lower Upper

64 100

66 33.4 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VW

Ion 66.00 (65.70 to 66.70): VW

2.92

200000

150000

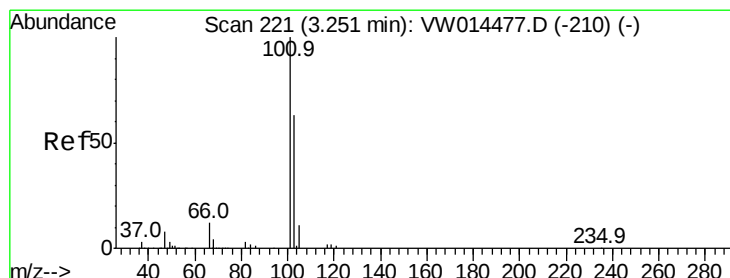
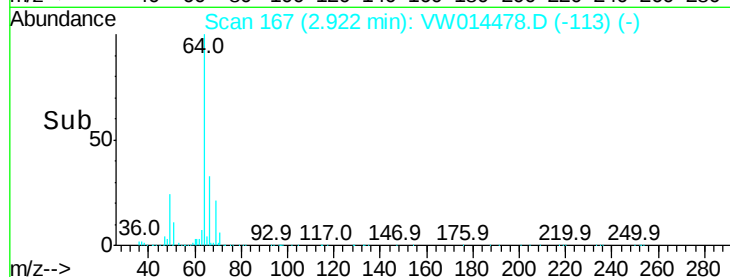
100000

50000

0

2.80 2.90 3.00

Time-->



#9

Trichlorofluoromethane

Concen: 53.089 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.00 min

Lab File: VW014478.D

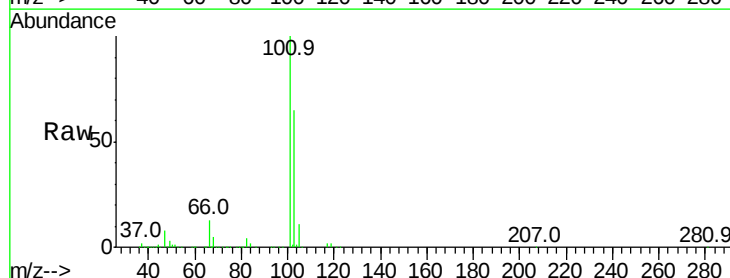
Acq: 27 Dec 2019 19:54

Tgt Ion: 101 Resp: 457892

Ion Ratio Lower Upper

101 100

103 64.3 45.5 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.25

200000

150000

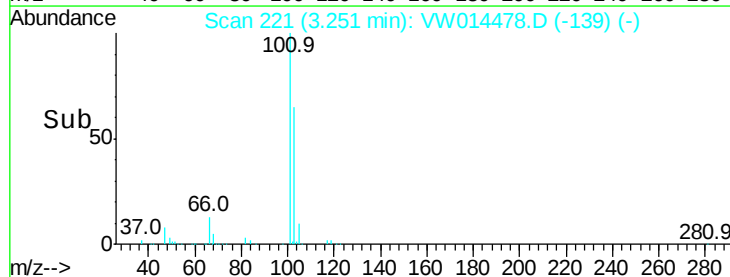
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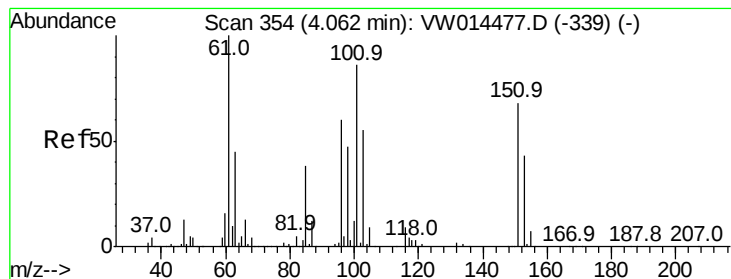
50000

0

3.10 3.20 3.30 3.40

Time-->





#11

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

Concen: 45.784 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

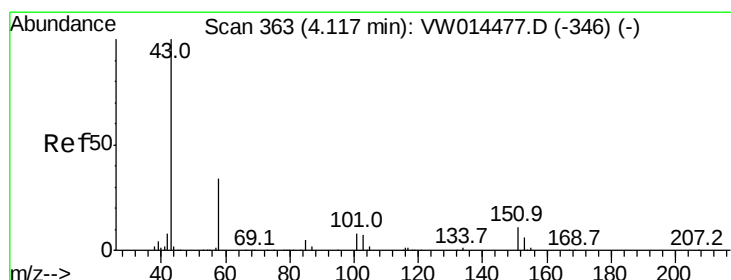
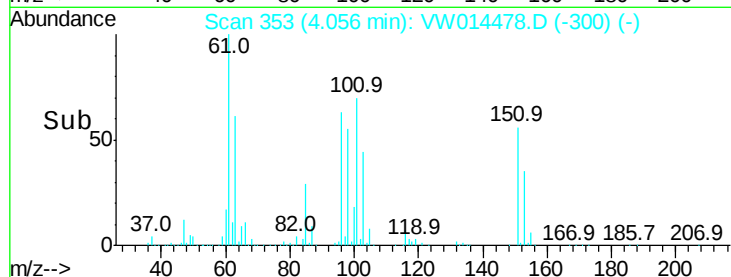
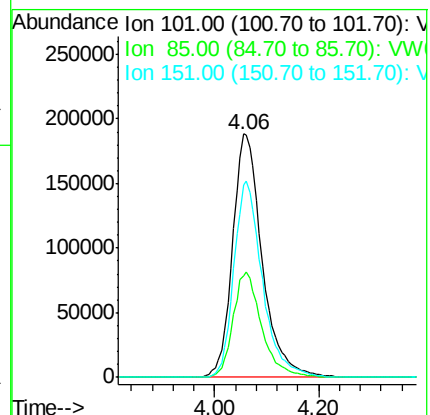
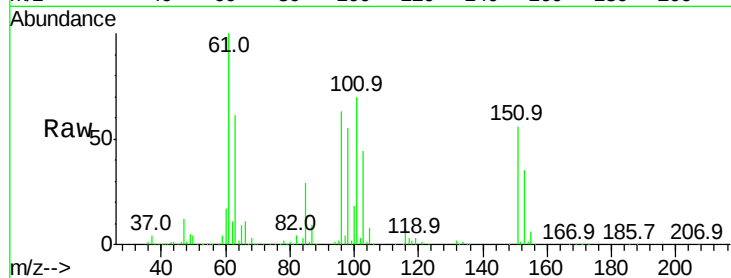
Tgt Ion:101 Resp: 743163

Ion Ratio Lower Upper

101 100

85 41.6 33.3 49.9

151 77.7 62.5 93.7



#13

Acetone

Concen: 84.306 ug/L

RT: 4.11 min Scan# 362

Delta R.T. -0.01 min

Lab File: VW014478.D

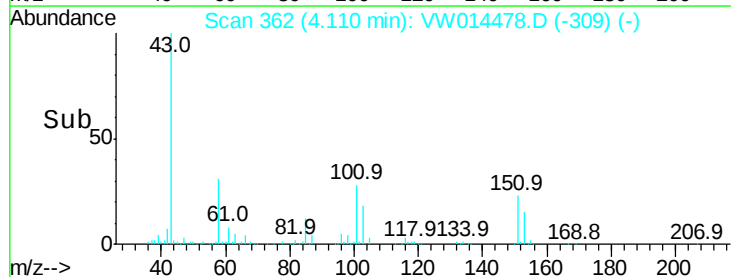
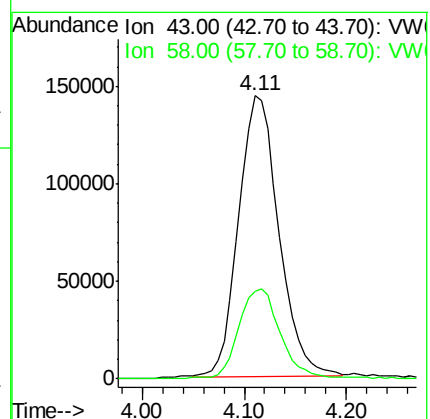
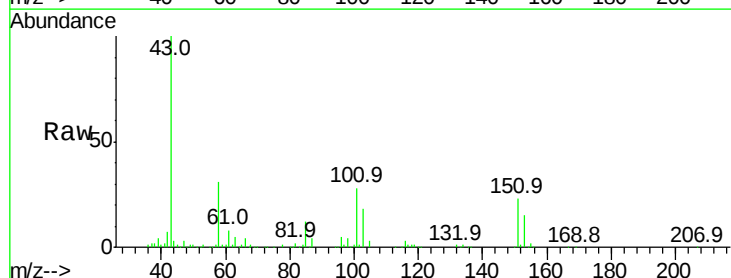
Acq: 27 Dec 2019 19:54

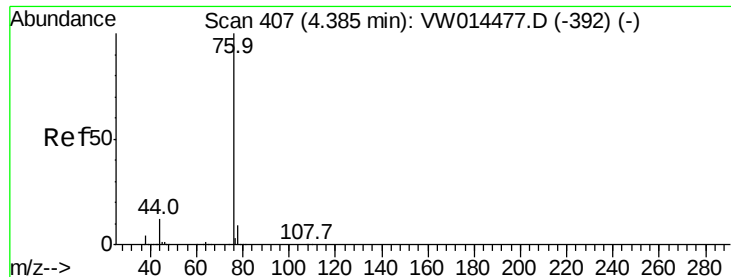
Tgt Ion: 43 Resp: 394726

Ion Ratio Lower Upper

43 100

58 33.2 0.0 64.0





#14

Carbon disulfide

Concen: 45.280 ug/L

RT: 4.38 min Scan# 407

Delta R.T. -0.00 min

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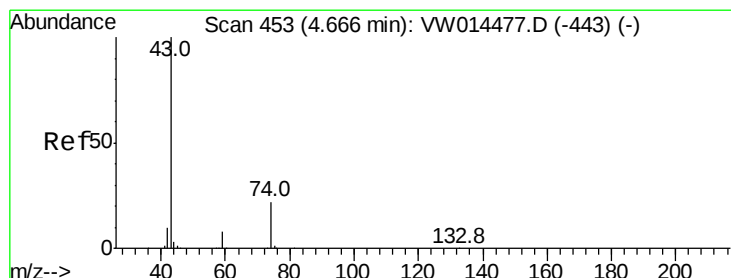
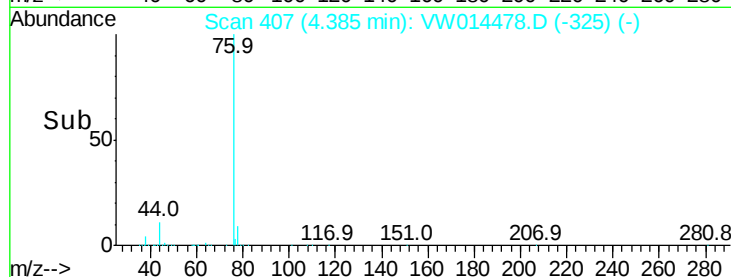
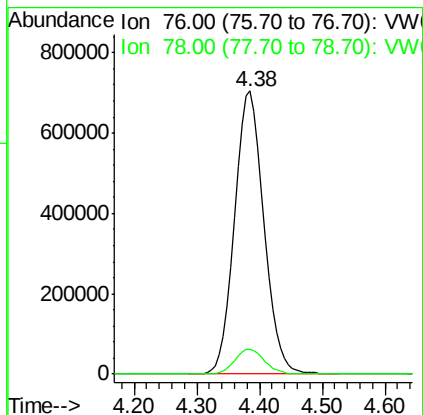
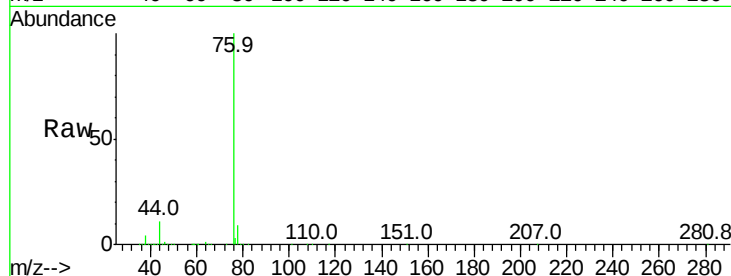
VSTD05005

Tgt Ion: 76 Resp: 2282187

Ion Ratio Lower Upper

76 100

78 8.9 6.9 10.3



#15

Methyl Acetate

Concen: 40.443 ug/L

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW014478.D

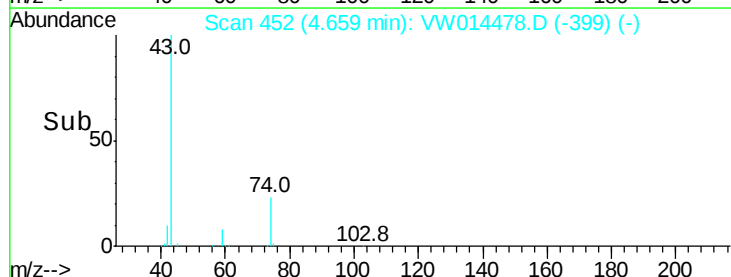
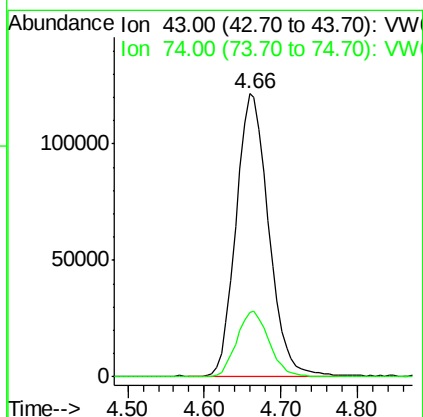
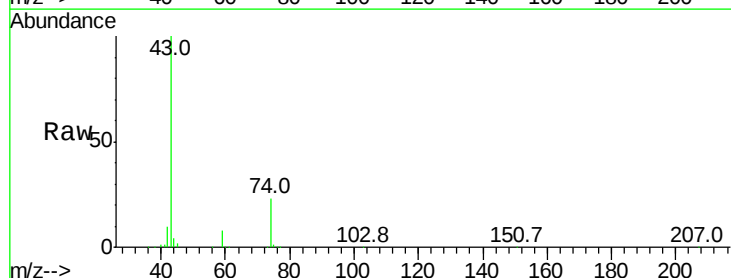
Acq: 27 Dec 2019 19:54

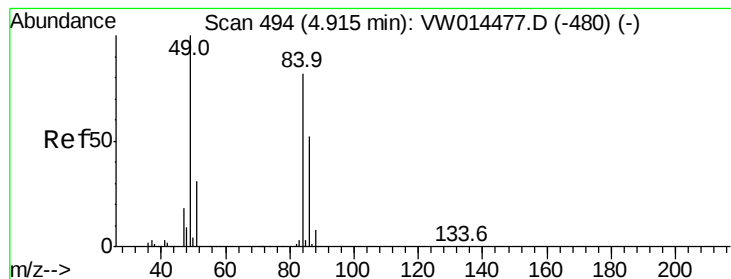
Tgt Ion: 43 Resp: 358170

Ion Ratio Lower Upper

43 100

74 23.1 18.3 27.5





#16

Methylene chloride

Concen: 41.352 ug/L

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

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ClientSampleId :

VSTD05005

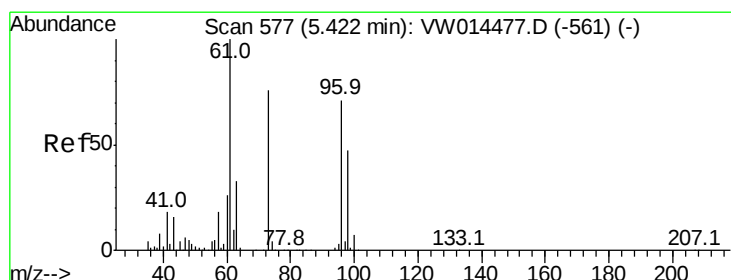
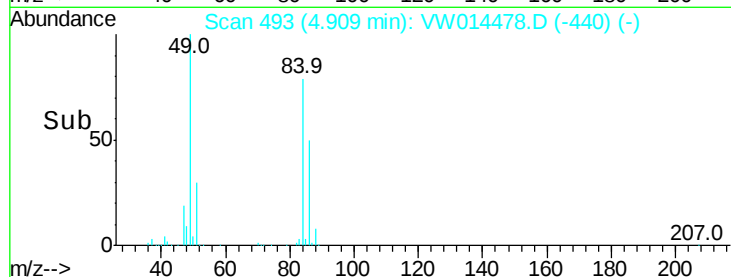
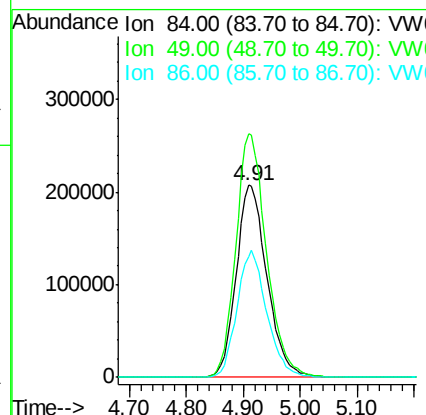
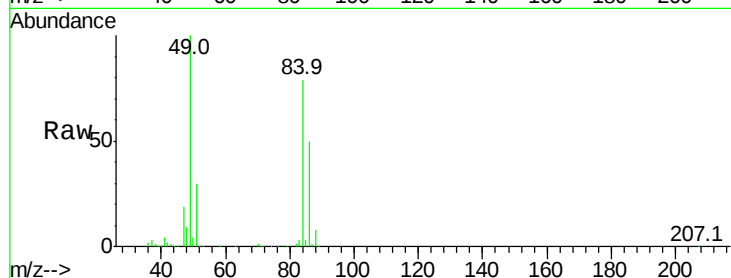
Tgt Ion: 84 Resp: 780122

Ion Ratio Lower Upper

84 100

49 126.9 85.8 159.4

86 62.9 44.5 82.7



#17

Methyl tert-butyl Ether

Concen: 45.118 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

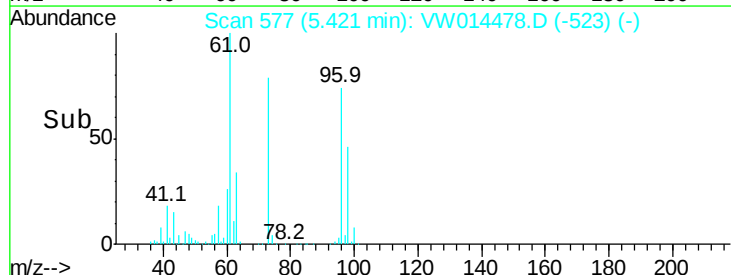
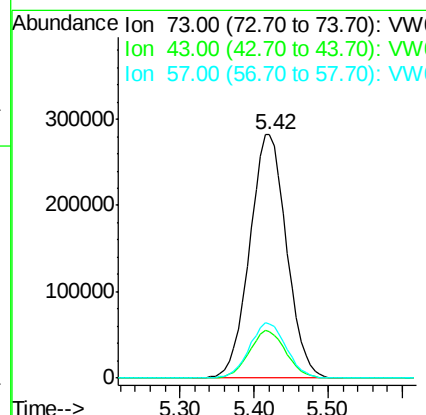
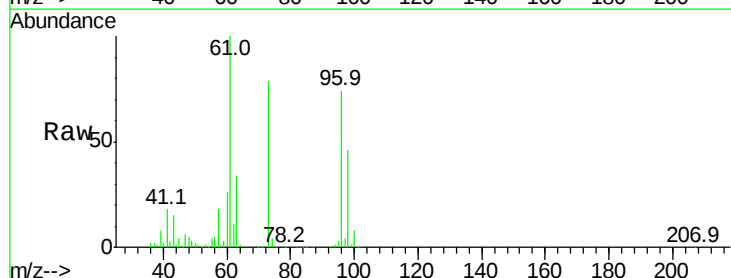
Tgt Ion: 73 Resp: 977778

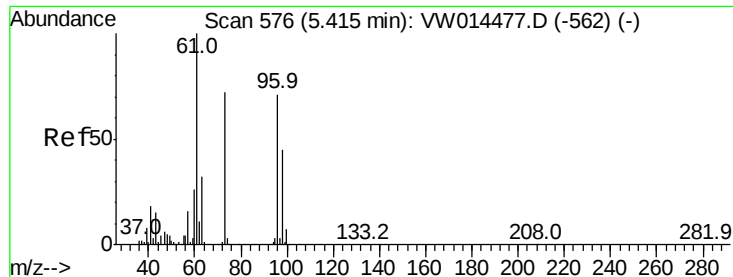
Ion Ratio Lower Upper

73 100

43 19.5 15.7 23.5

57 22.8 18.3 27.5





#18

trans-1,2-Dichloroethene

Concen: 44.781 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

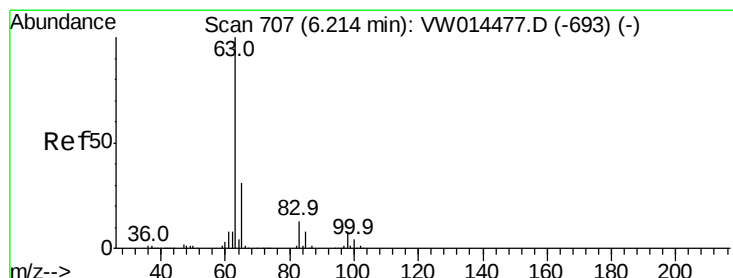
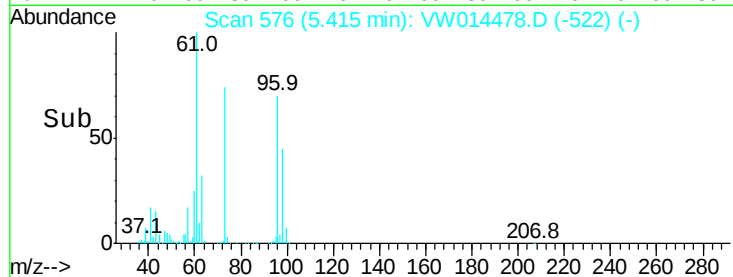
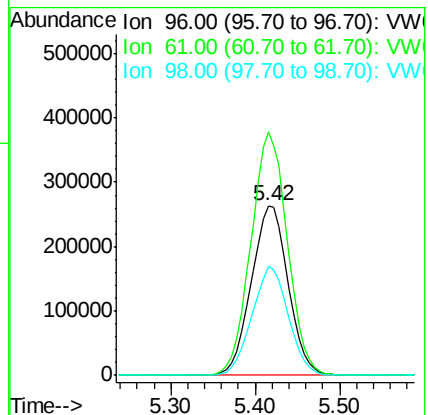
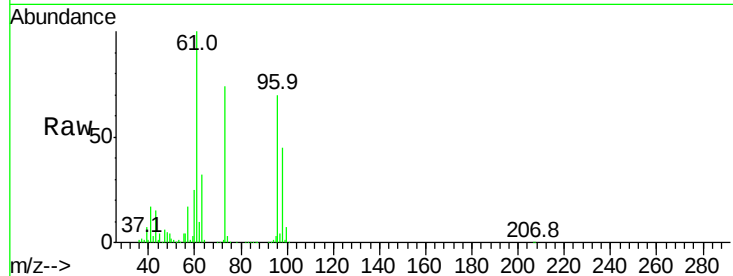
Tgt Ion: 96 Resp: 788102

Ion Ratio Lower Upper

96 100

61 143.4 98.2 182.4

98 64.5 44.1 81.9



#19

1,1-Dichloroethane

Concen: 44.780 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

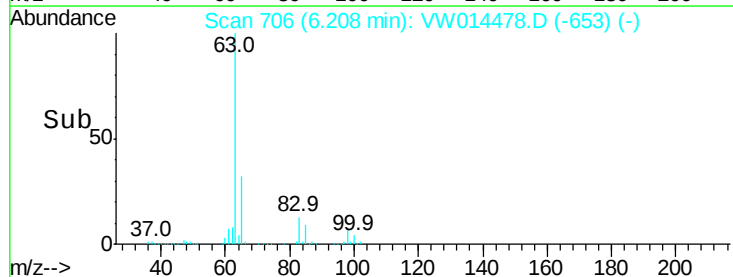
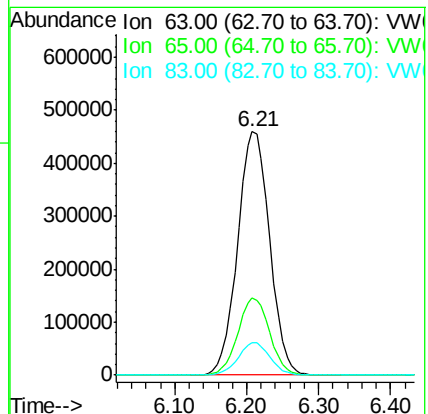
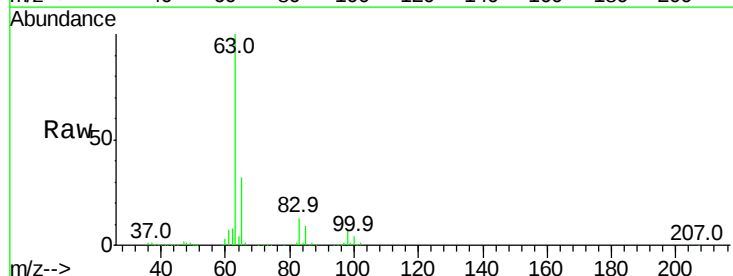
Tgt Ion: 63 Resp: 1415922

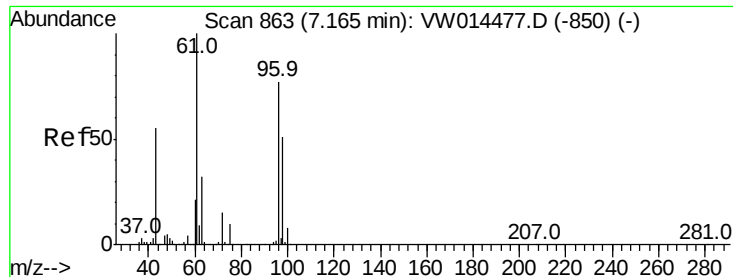
Ion Ratio Lower Upper

63 100

65 31.8 21.7 40.3

83 13.5 9.0 16.8





#21

2-Butanone

Concen: 85.215 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

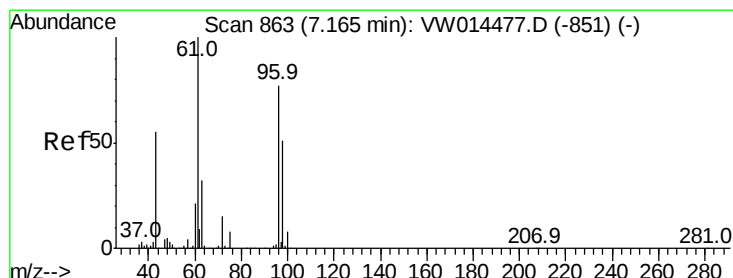
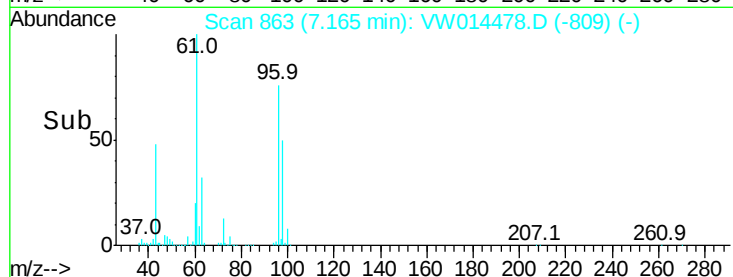
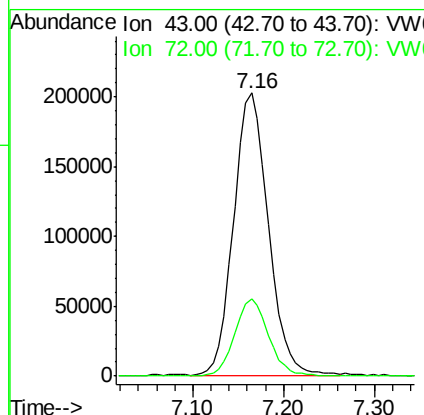
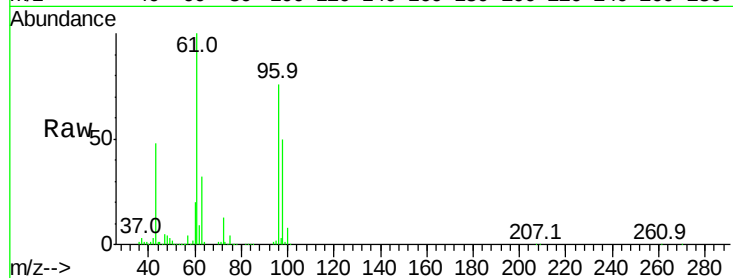
VSTD05005

Tgt Ion: 43 Resp: 535656

Ion Ratio Lower Upper

43 100

72 26.7 13.3 39.8



#22

cis-1,2-Dichloroethene

Concen: 45.161 ug/L

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

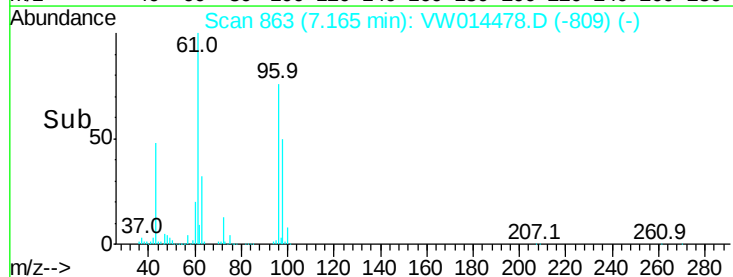
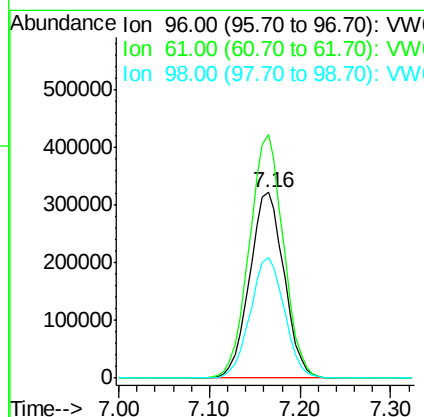
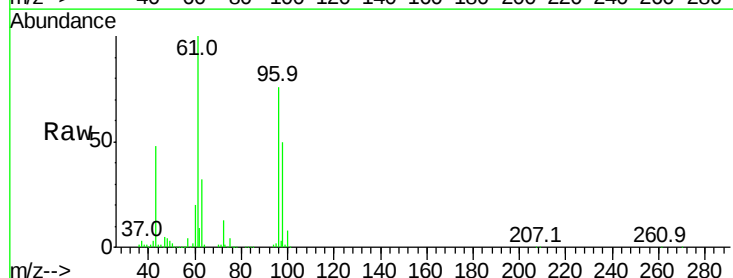
Tgt Ion: 96 Resp: 845700

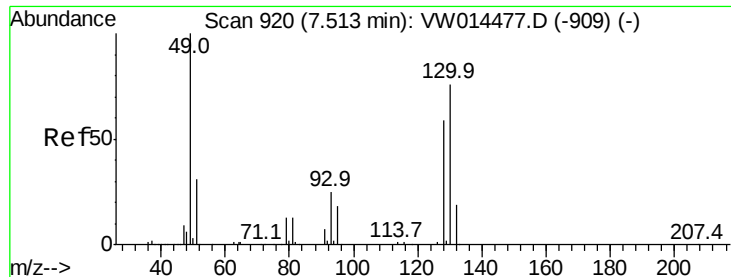
Ion Ratio Lower Upper

96 100

61 131.1 91.5 169.9

98 65.3 46.9 87.1

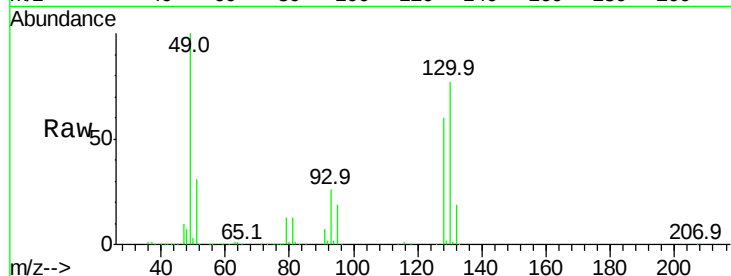




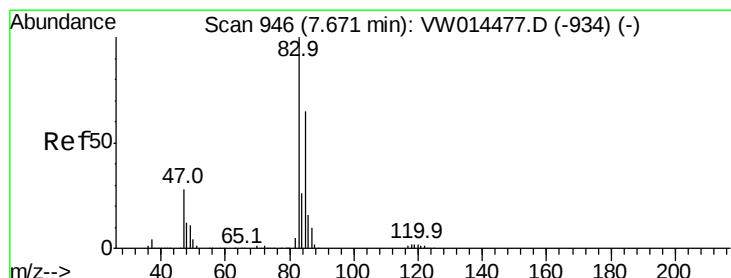
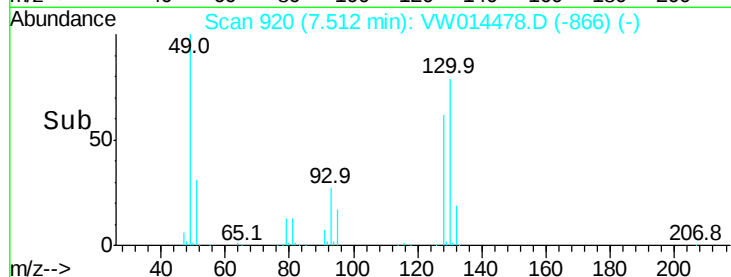
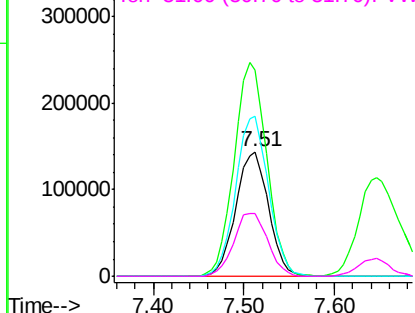
#23
 Bromochloromethane
 Concen: 41.699 ug/L
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW014478.D
 Acq: 27 Dec 2019 19:54

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05005

Tgt Ion:128 Resp: 359194
 Ion Ratio Lower Upper
 128 100
 49 165.5 118.3 219.7
 130 128.2 89.5 166.1
 51 50.8 42.1 63.1

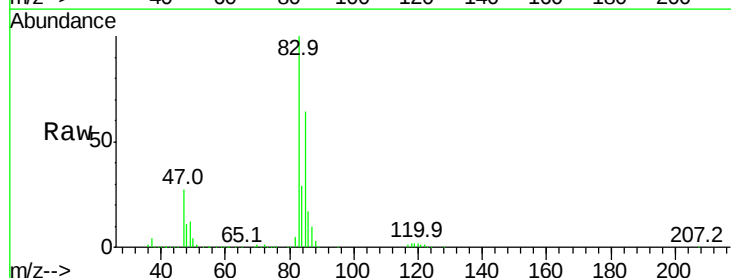


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VW
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VW

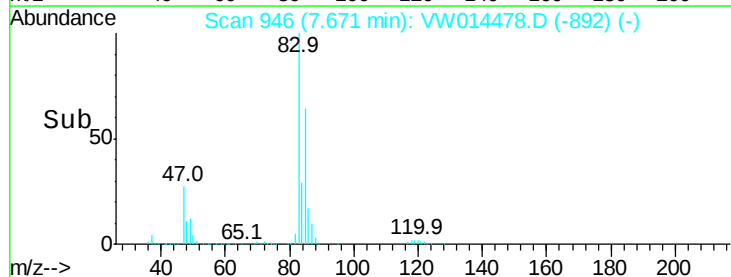
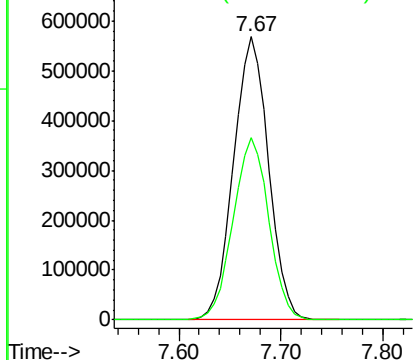


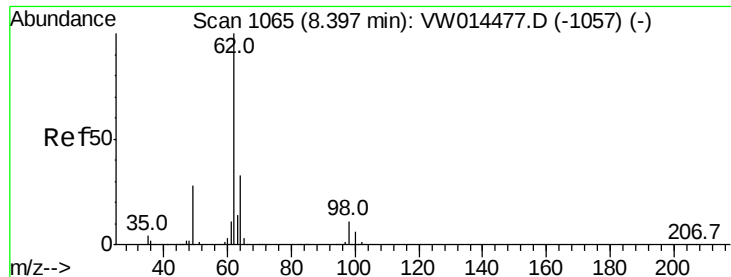
#25
 Chloroform
 Concen: 44.073 ug/L
 RT: 7.67 min Scan# 946
 Delta R.T. -0.00 min
 Lab File: VW014478.D
 Acq: 27 Dec 2019 19:54

Tgt Ion: 83 Resp: 1354175
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.8 85.2



Abundance Ion 83.00 (82.70 to 83.70): VW
 Ion 85.00 (84.70 to 85.70): VW





#27

1,2-Dichloroethane

Concen: 42.835 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

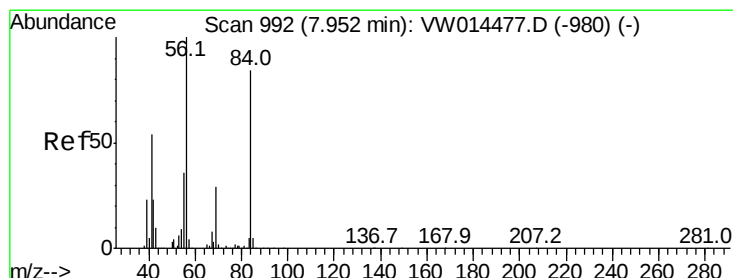
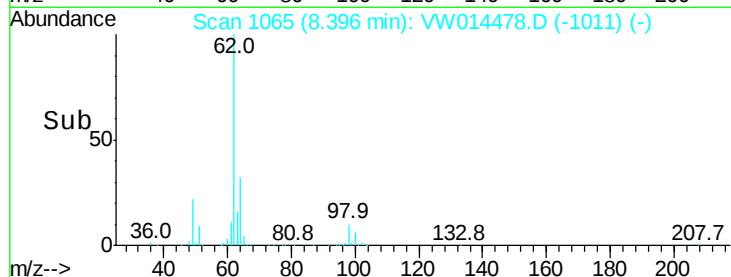
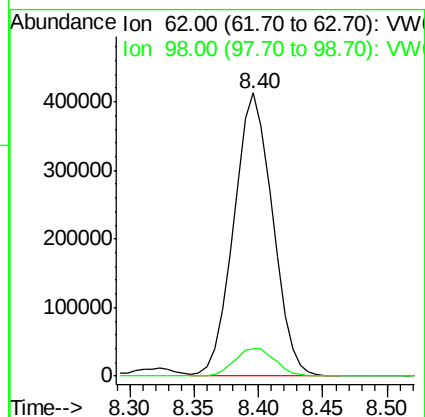
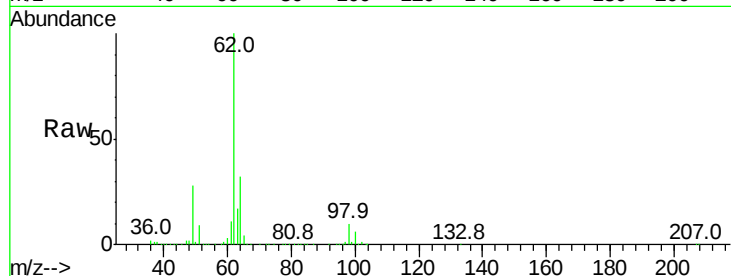
VSTD05005

Tgt Ion: 62 Resp: 861834

Ion Ratio Lower Upper

62 100

98 9.8 8.3 12.5



#30

Cyclohexane

Concen: 52.012 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

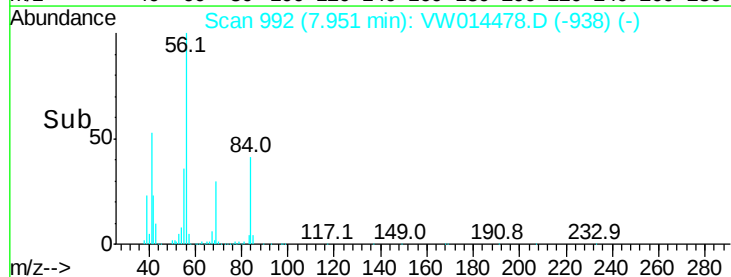
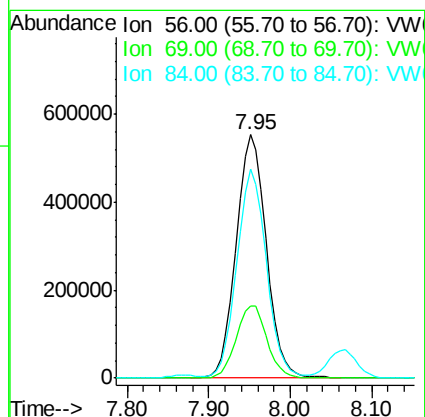
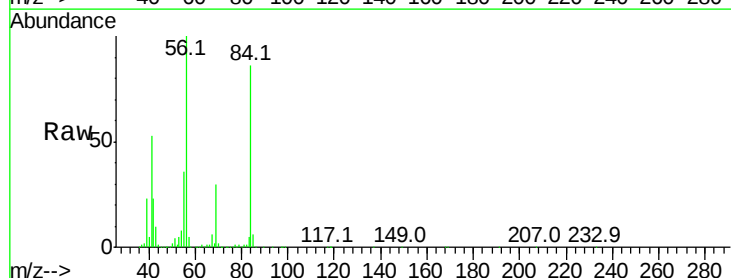
Tgt Ion: 56 Resp: 1415212

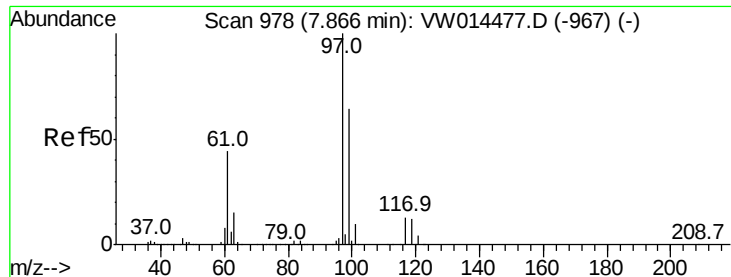
Ion Ratio Lower Upper

56 100

69 30.2 23.8 35.8

84 84.4 68.2 102.2





#31

1,1,1-Trichloroethane

Concen: 49.142 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampled :

VSTD05005

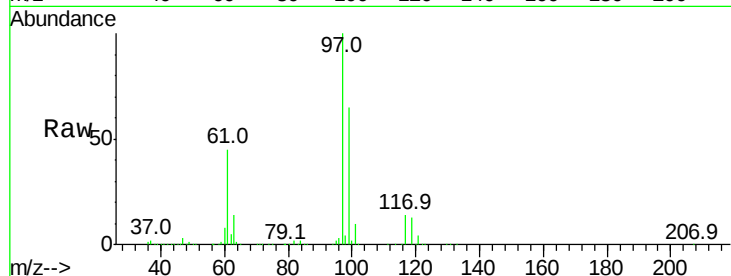
Tgt Ion: 97 Resp: 1075837

Ion Ratio Lower Upper

97 100

99 64.0 51.6 77.4

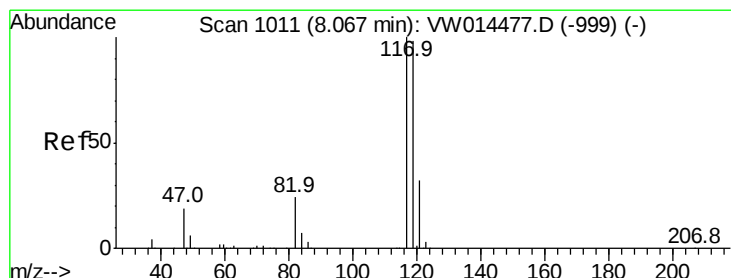
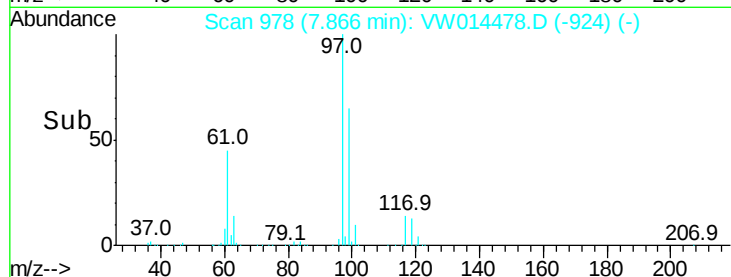
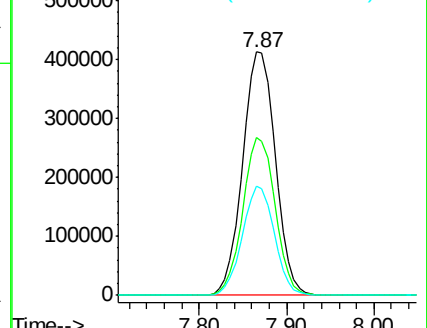
61 43.9 35.3 52.9



Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 48.190 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VW014478.D

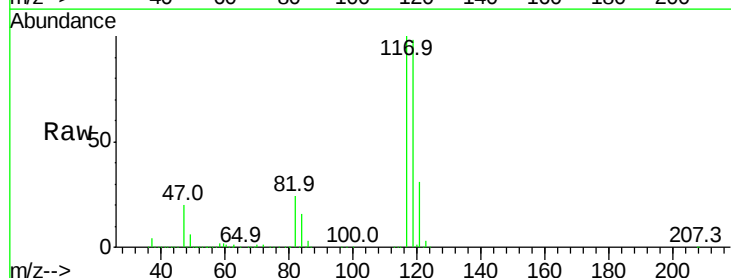
Acq: 27 Dec 2019 19:54

Tgt Ion: 117 Resp: 1001034

Ion Ratio Lower Upper

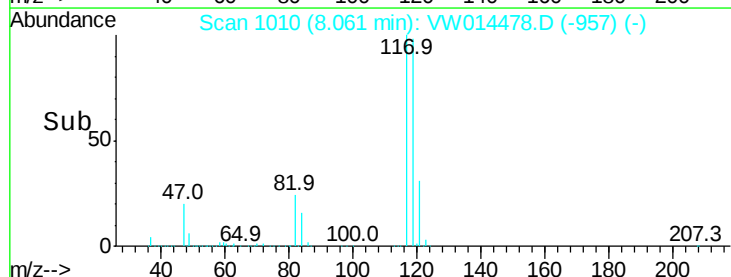
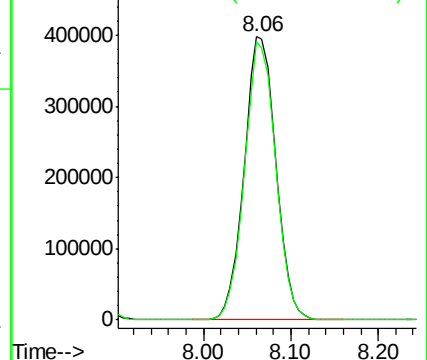
117 100

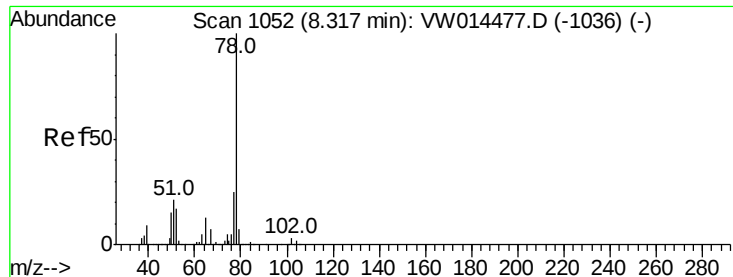
119 96.8 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 46.128 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

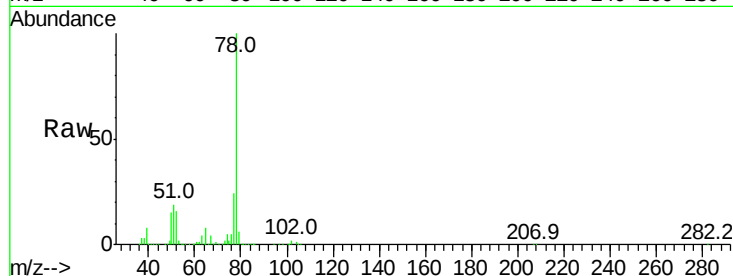
Instrument :

MSVOA_W

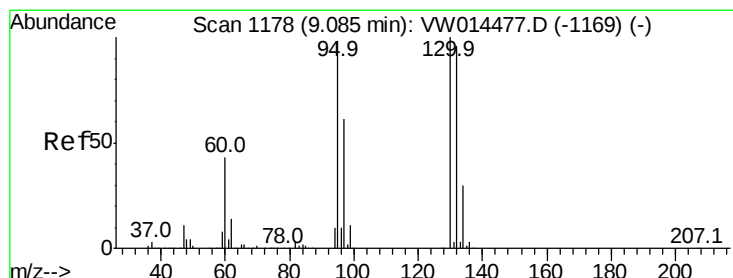
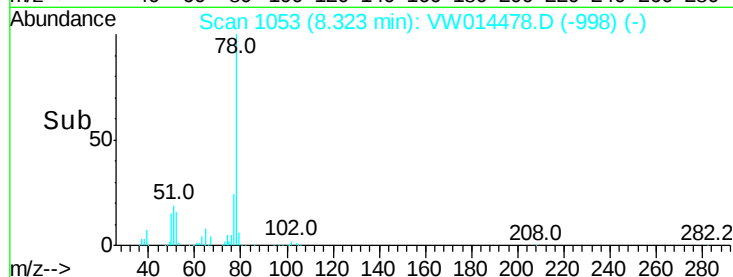
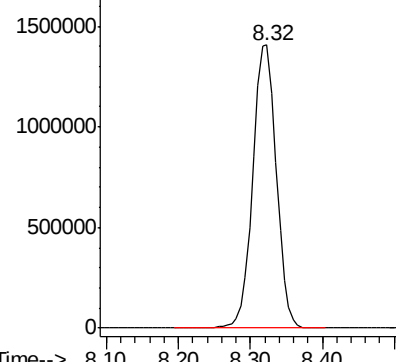
ClientSampleId :

VSTD05005

Tgt Ion: 78 Resp: 3183870



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 46.242 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Tgt Ion: 95 Resp: 816639

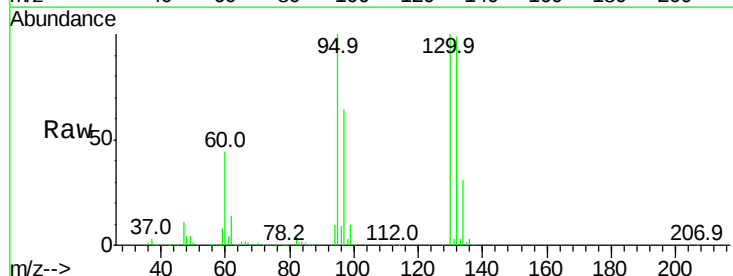
Ion	Ratio	Lower	Upper
95	100		
97	64.5	44.3	82.3
132	100.4	69.2	128.6
130	103.2	72.3	134.3

95 100

97 64.5 44.3 82.3

132 100.4 69.2 128.6

130 103.2 72.3 134.3

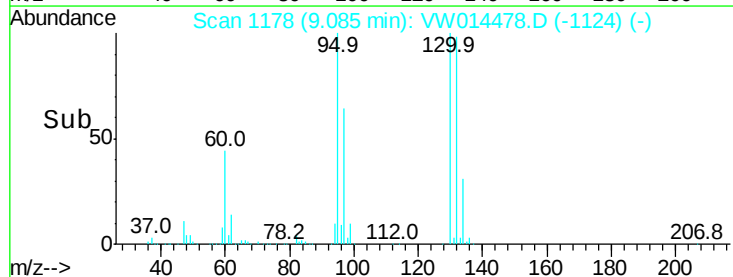
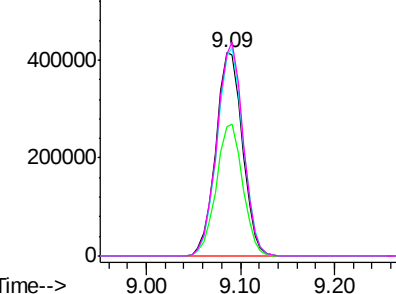


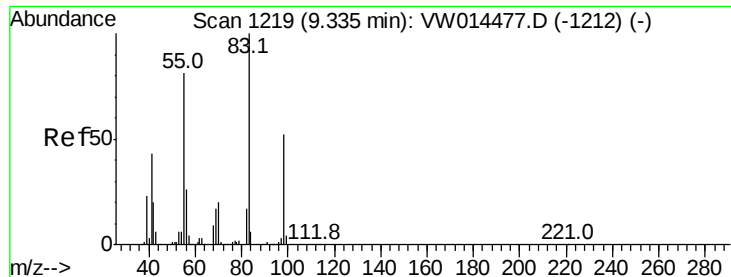
Abundance Ion 95.00 (94.70 to 95.70): VW

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

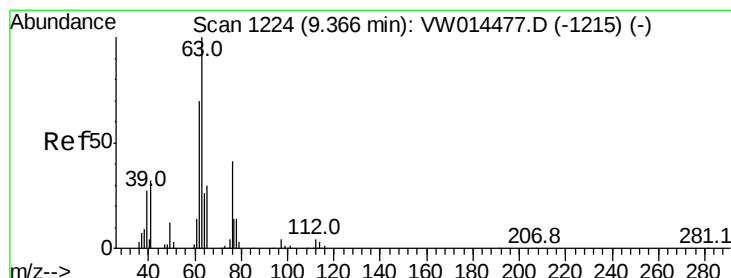
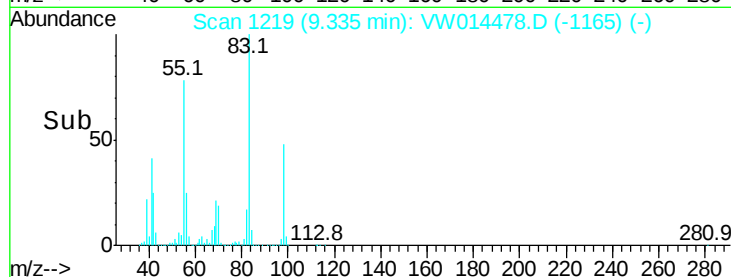
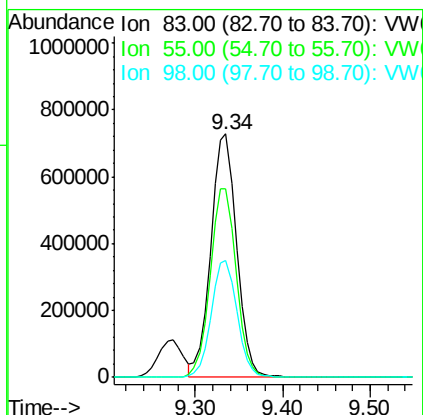
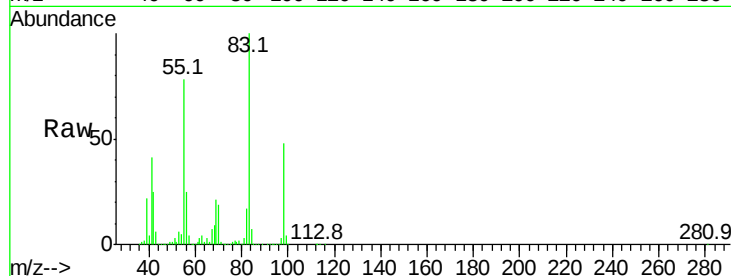




#36
Methylcyclohexane
Concen: 50.099 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW014478.D
Acq: 27 Dec 2019 19:54

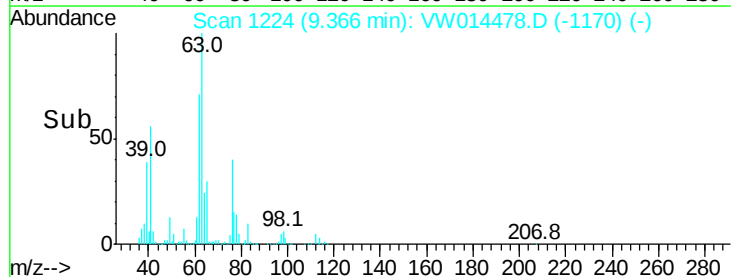
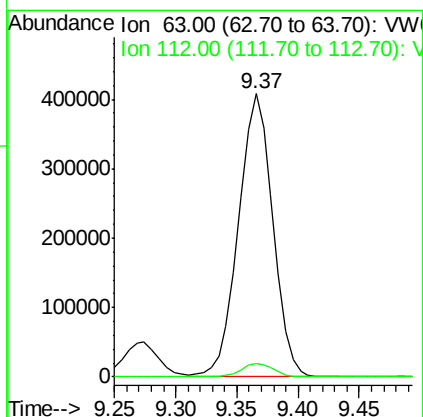
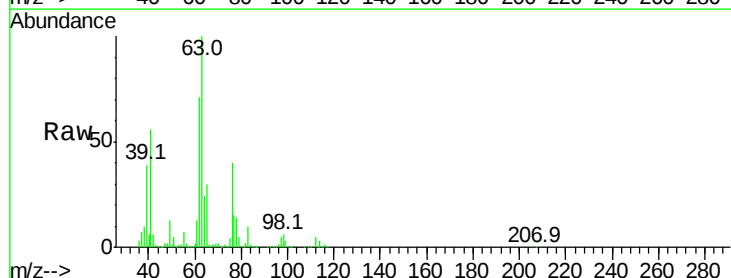
Instrument :
MSVOA_W
ClientSampleId :
VSTD05005

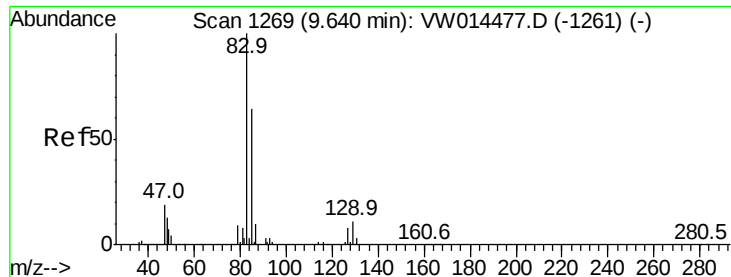
Tgt Ion: 83 Resp: 1486742
Ion Ratio Lower Upper
83 100
55 78.4 63.7 95.5
98 48.2 39.4 59.2



#40
1,2-Dichloropropane
Concen: 44.774 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW014478.D
Acq: 27 Dec 2019 19:54

Tgt Ion: 63 Resp: 793955
Ion Ratio Lower Upper
63 100
112 4.6 3.7 5.5





#41

Bromodichloromethane

Concen: 45.427 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

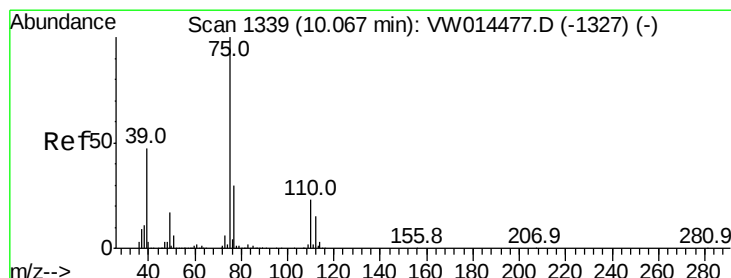
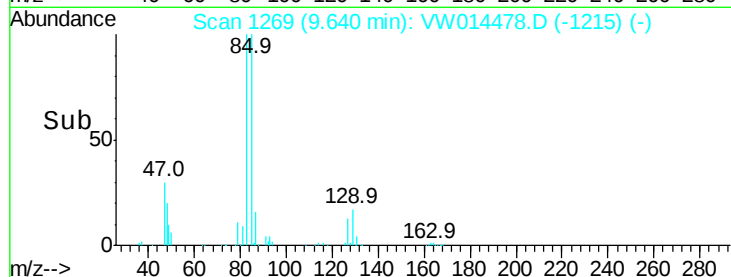
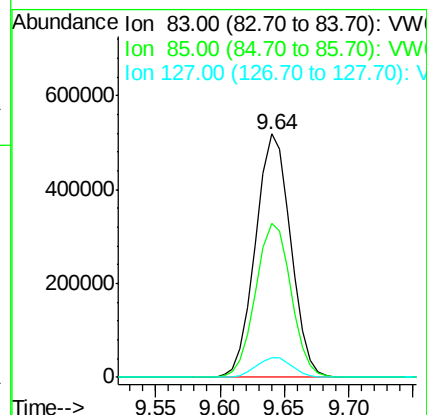
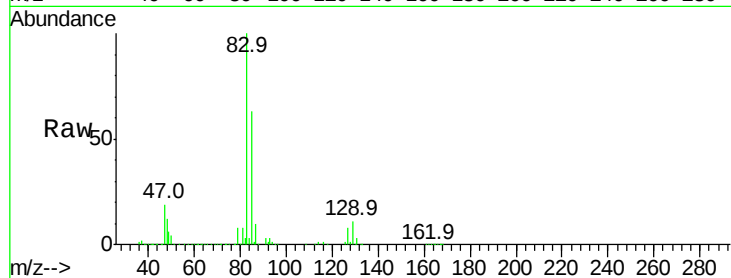
Tgt Ion: 83 Resp: 978949

Ion Ratio Lower Upper

83 100

85 63.4 44.7 83.1

127 8.2 6.3 9.5



#42

cis-1,3-Dichloropropene

Concen: 47.934 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.01 min

Lab File: VW014478.D

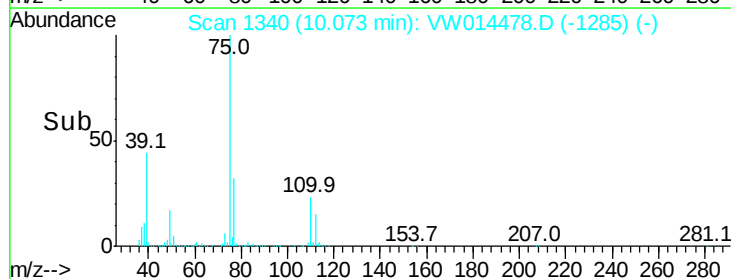
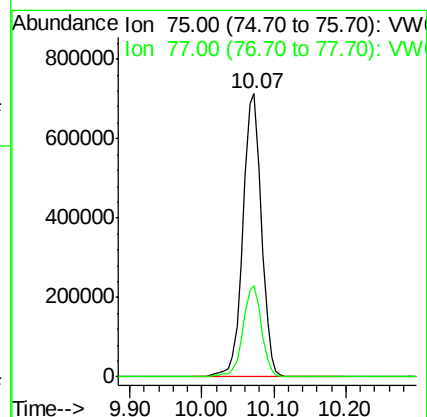
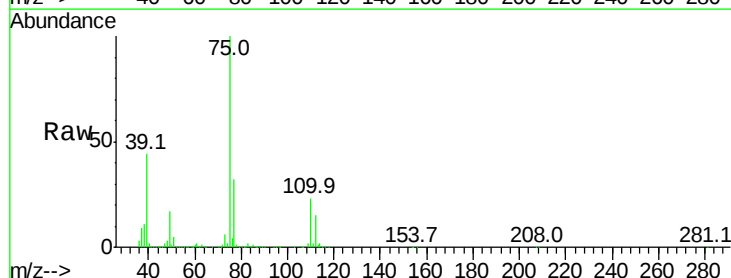
Acq: 27 Dec 2019 19:54

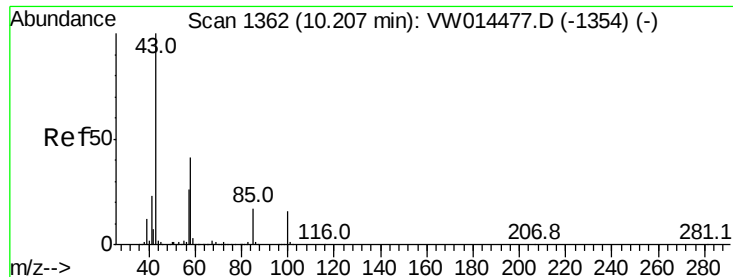
Tgt Ion: 75 Resp: 1272912

Ion Ratio Lower Upper

75 100

77 32.3 21.0 39.0

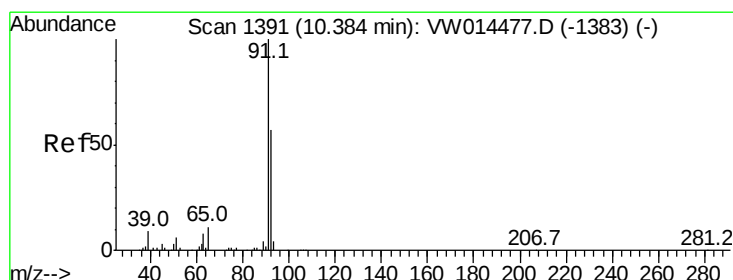
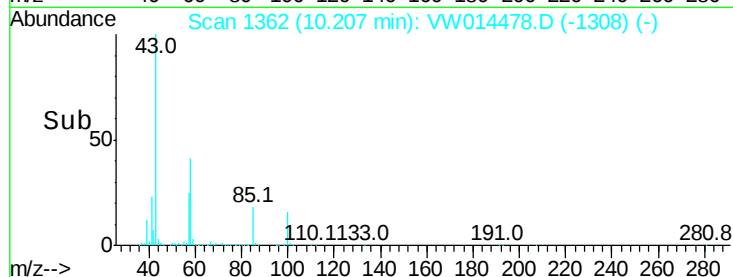
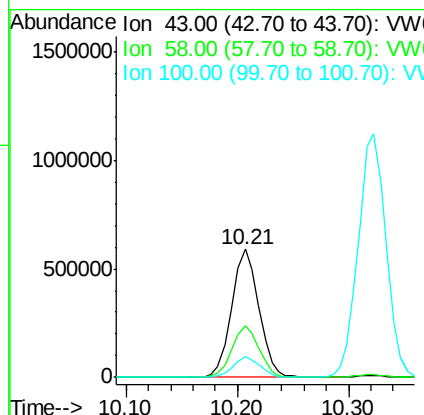
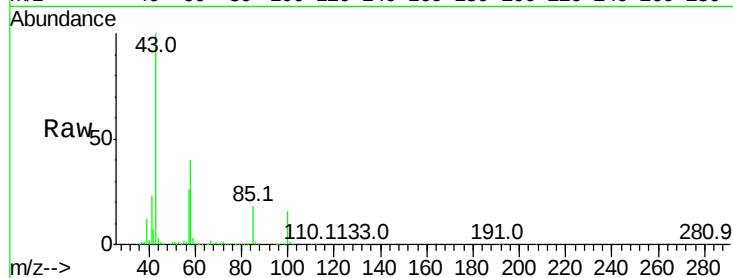




#43
4-Methyl-2-pentanone
Concen: 85.825 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VW014478.D
Acq: 27 Dec 2019 19:54

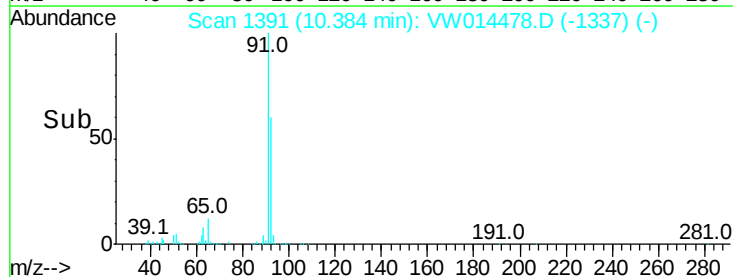
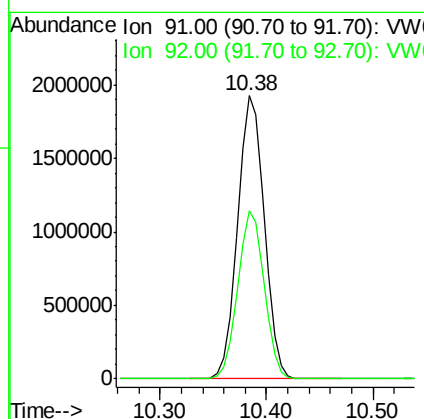
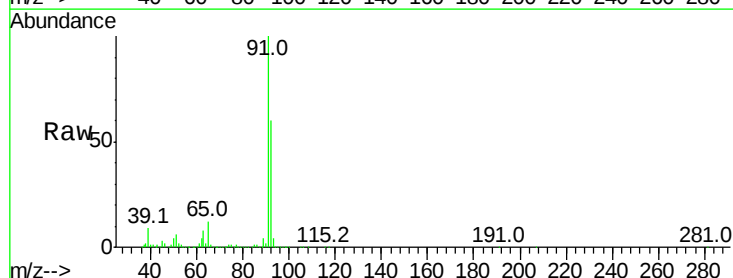
Instrument :
MSVOA_W
ClientSampleId :
VSTD05005

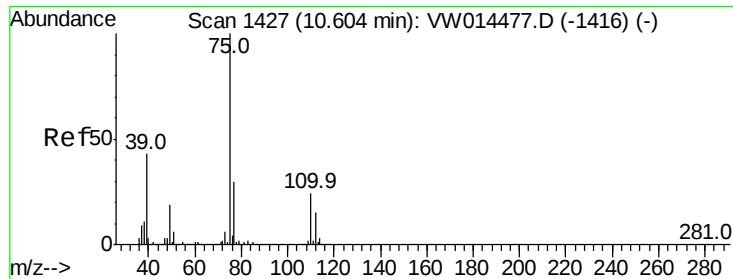
Tgt Ion: 43 Resp: 1003555
Ion Ratio Lower Upper
43 100
58 40.3 32.6 48.8
100 15.8 12.6 19.0



#44
Toluene
Concen: 46.890 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VW014478.D
Acq: 27 Dec 2019 19:54

Tgt Ion: 91 Resp: 3393088
Ion Ratio Lower Upper
91 100
92 59.6 40.2 74.6





#45

trans-1,3-Dichloropropene

Concen: 46.366 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

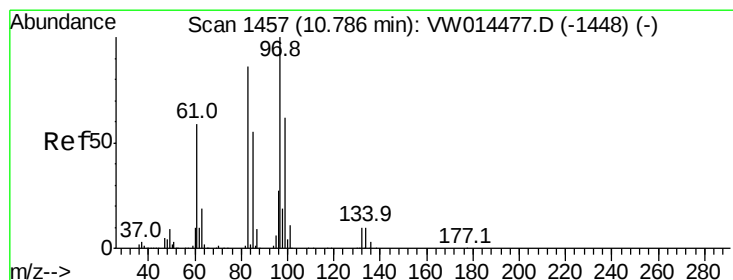
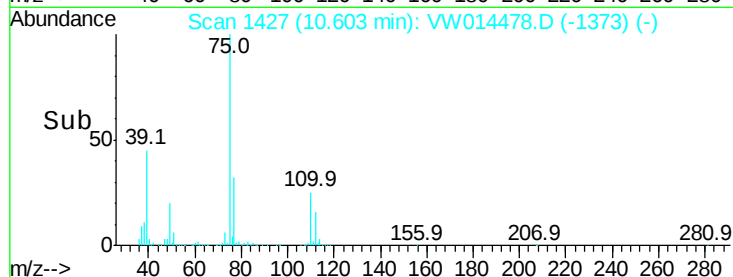
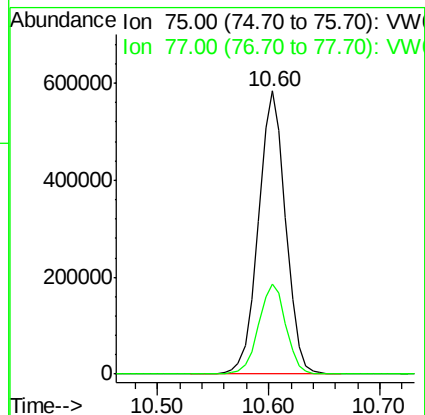
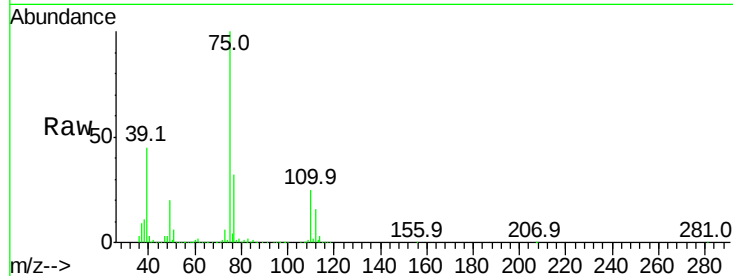
VSTD05005

Tgt Ion: 75 Resp: 996690

Ion Ratio Lower Upper

75 100

77 32.0 21.1 39.3



#46

1,1,2-Trichloroethane

Concen: 42.310 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Tgt Ion: 97 Resp: 562208

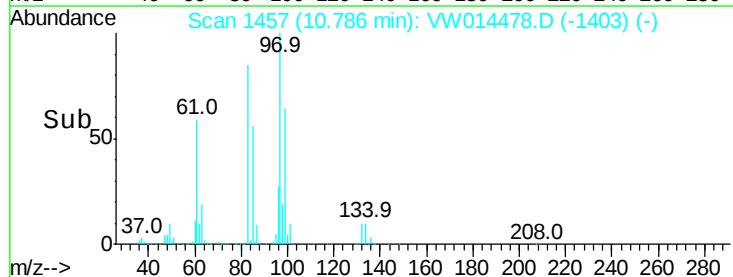
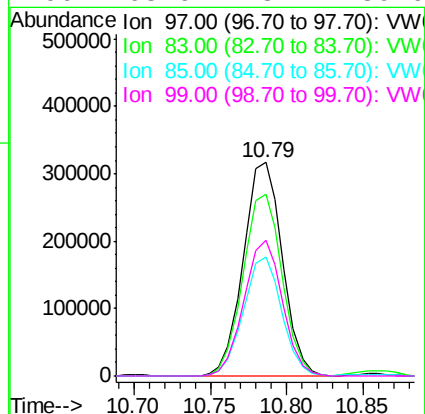
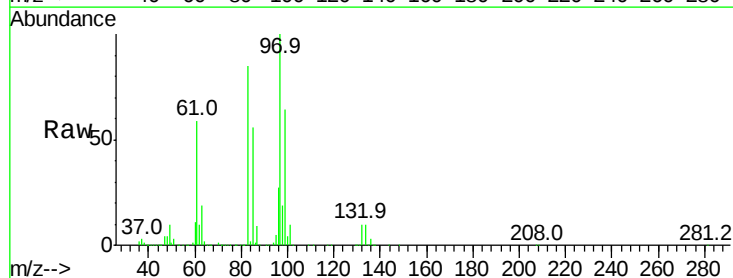
Ion Ratio Lower Upper

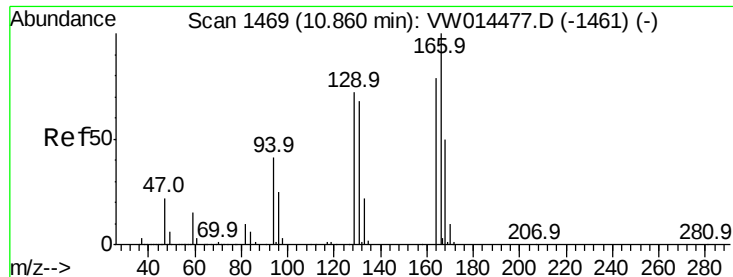
97 100

83 85.4 60.1 111.5

85 55.7 38.1 70.9

99 63.6 43.4 80.6





#47

Tetrachloroethene

Concen: 45.998 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

Tgt Ion:164 Resp: 677064

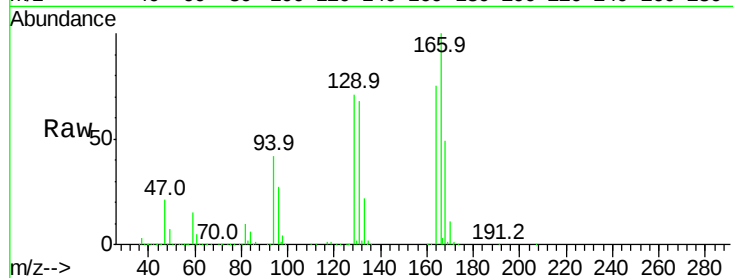
Ion Ratio Lower Upper

164 100

129 94.4 64.0 118.8

131 91.0 60.2 111.8

166 132.9 88.2 163.8

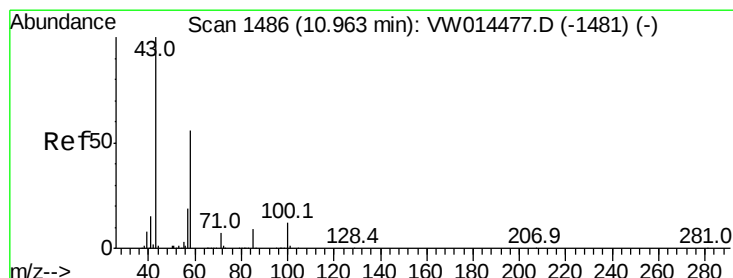
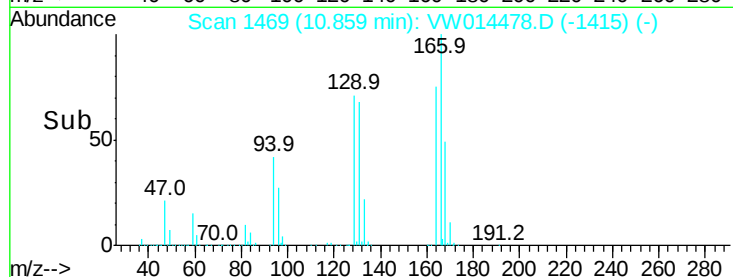
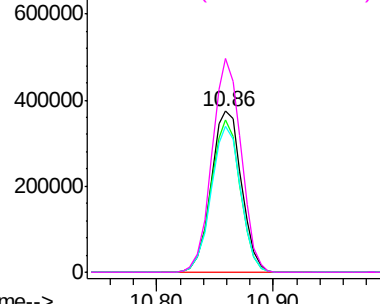


Abundance Ion 164.00 (163.70 to 164.70): V

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: 87.482 ug/L

RT: 10.96 min Scan# 1486

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Tgt Ion: 43 Resp: 728266

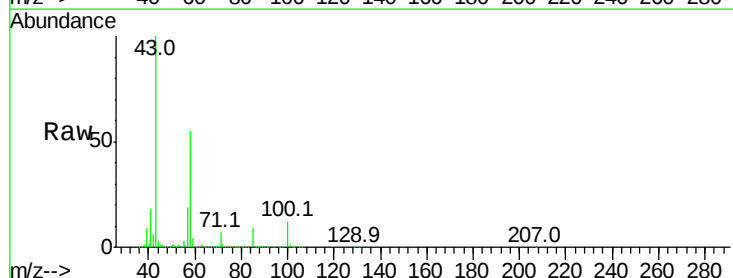
Ion Ratio Lower Upper

43 100

58 56.1 44.9 67.3

57 19.2 15.3 22.9

100 12.3 10.0 15.0

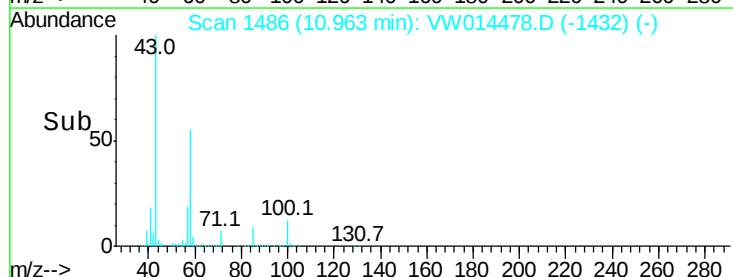
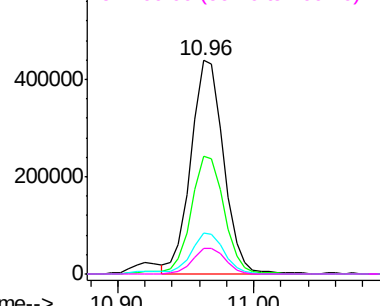


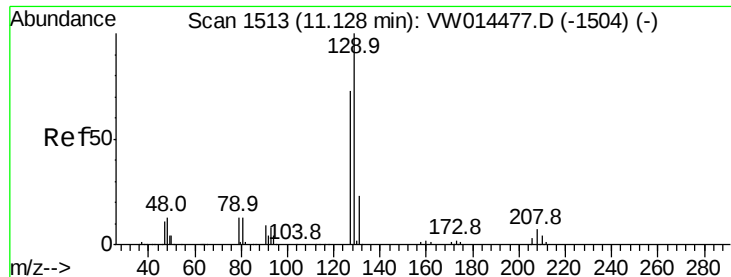
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 58.00 (57.70 to 58.70): VV

Ion 57.00 (56.70 to 57.70): VV

Ion 100.00 (99.70 to 100.70): VV





#50

Dibromochloromethane

Concen: 44.561 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

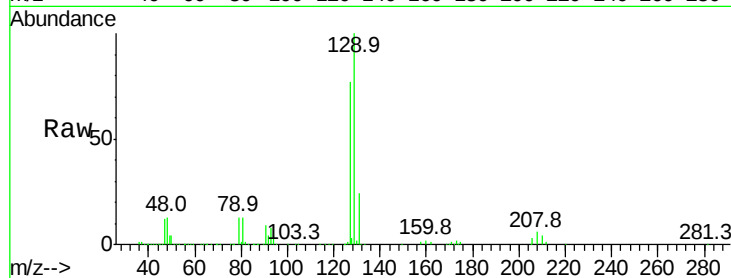
VSTD05005

Tgt Ion:129 Resp: 664553

Ion Ratio Lower Upper

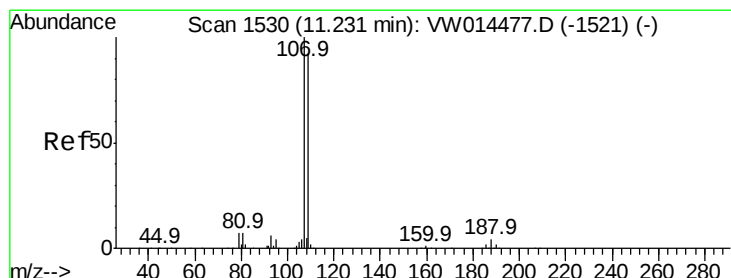
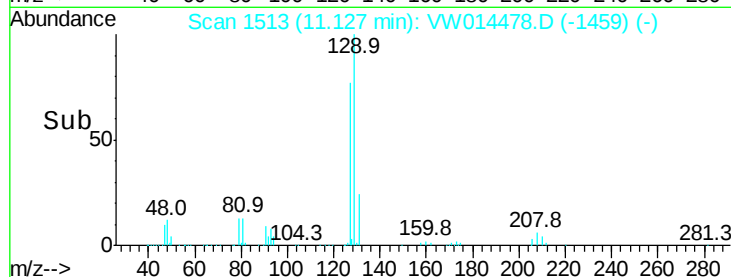
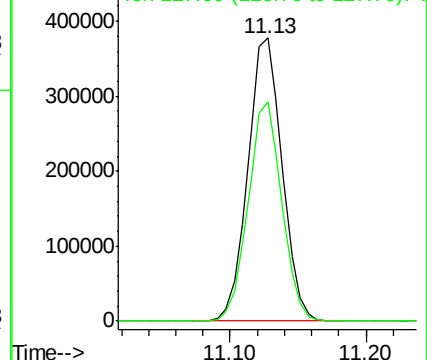
129 100

127 77.4 51.1 94.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 42.558 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

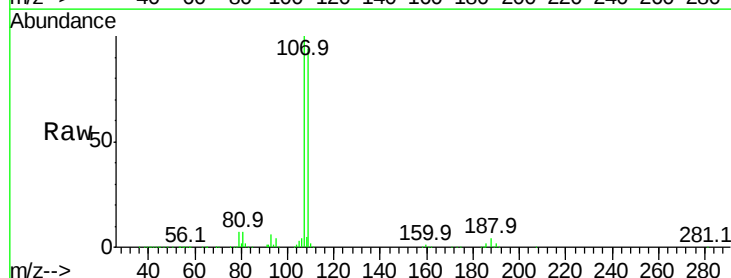
Tgt Ion:107 Resp: 535653

Ion Ratio Lower Upper

107 100

109 93.8 64.7 120.1

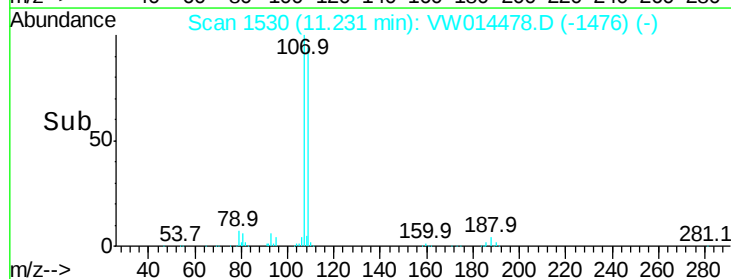
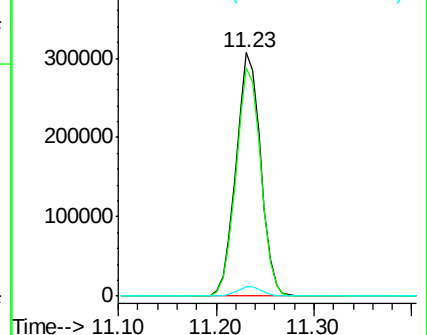
188 3.8 3.0 4.6

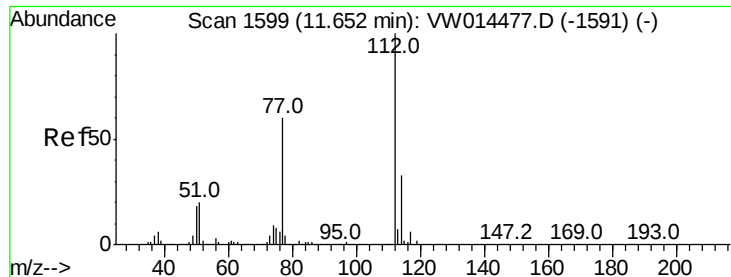


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 44.648 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

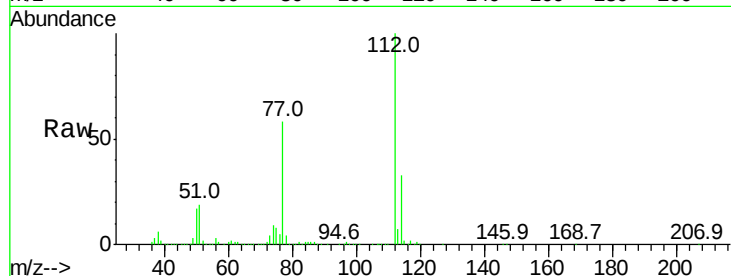
Tgt Ion:112 Resp: 2088093

Ion Ratio Lower Upper

112 100

77 57.9 48.2 72.2

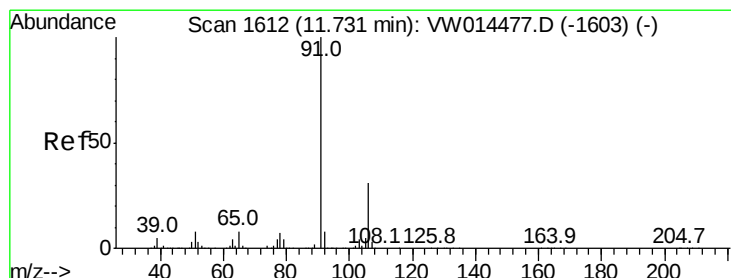
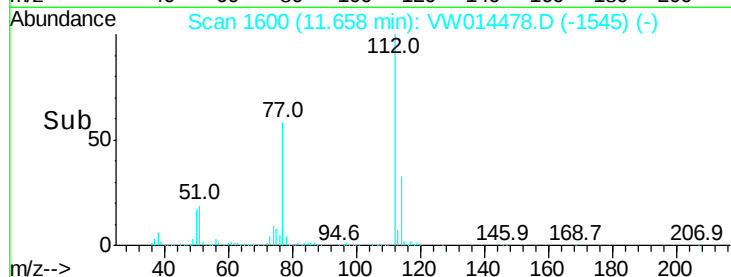
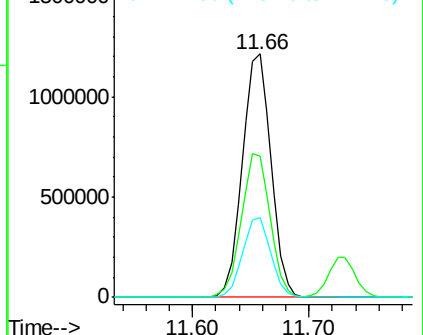
114 32.6 22.9 42.5



Abundance Ion 112.00 (111.70 to 112.70): VW

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): VW



#53

Ethylbenzene

Concen: 47.586 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW014478.D

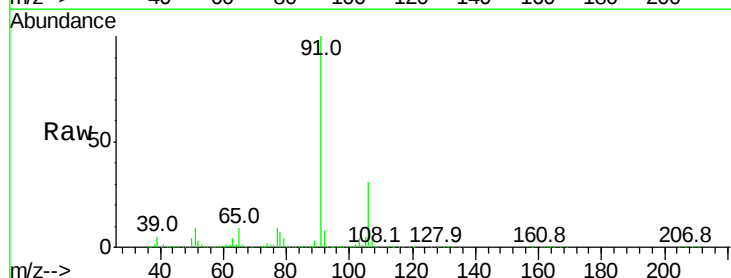
Acq: 27 Dec 2019 19:54

Tgt Ion: 91 Resp: 3736466

Ion Ratio Lower Upper

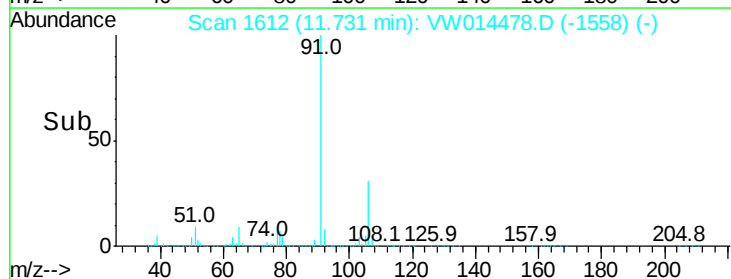
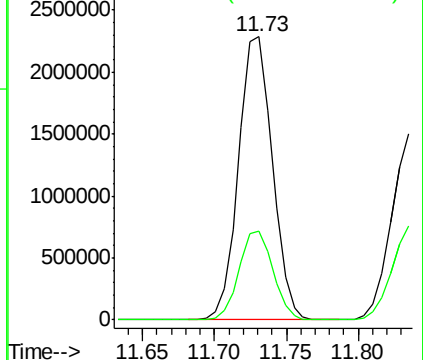
91 100

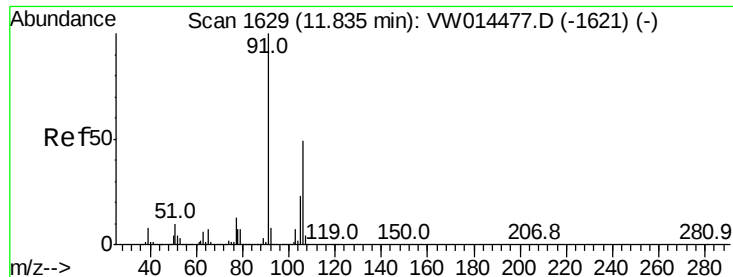
106 31.4 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): VW





#54

m,p-Xylene

Concen: 47.518 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

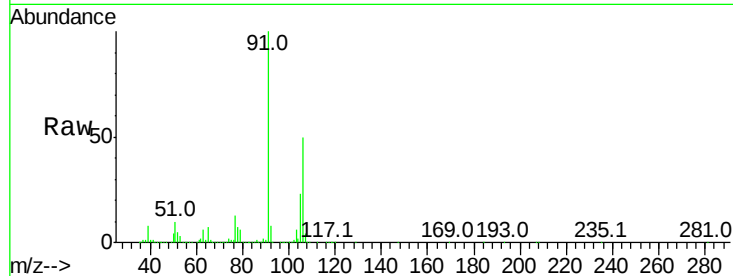
VSTD05005

Tgt Ion:106 Resp: 1435248

Ion Ratio Lower Upper

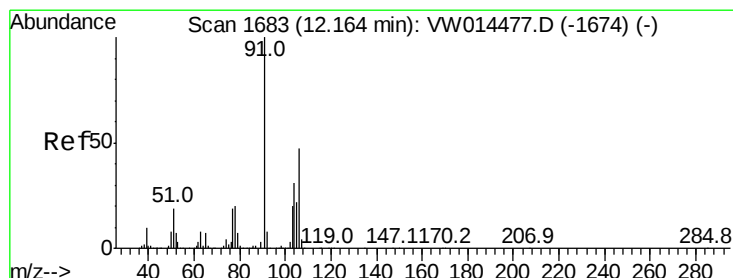
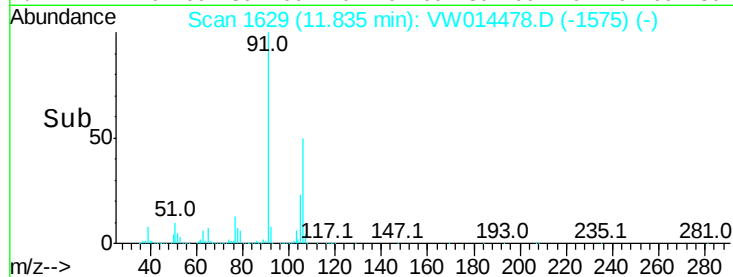
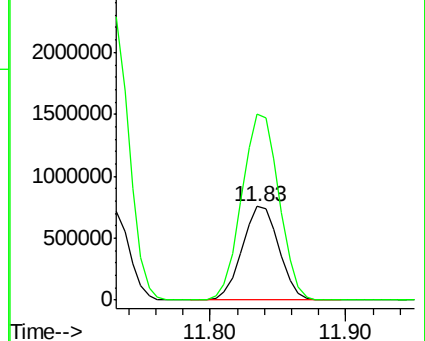
106 100

91 199.0 142.2 264.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 47.577 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW014478.D

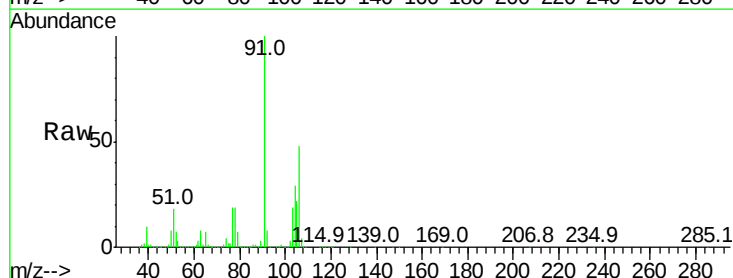
Acq: 27 Dec 2019 19:54

Tgt Ion:106 Resp: 1363033

Ion Ratio Lower Upper

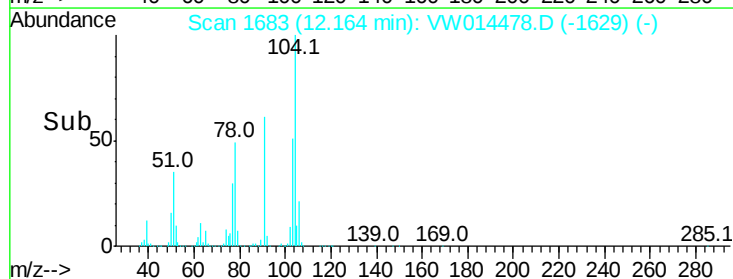
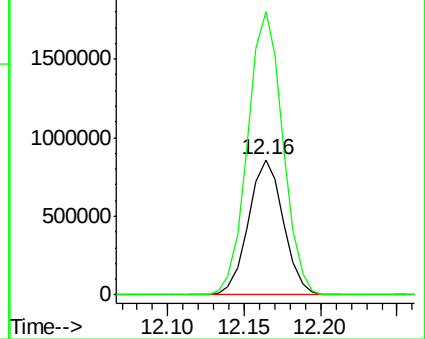
106 100

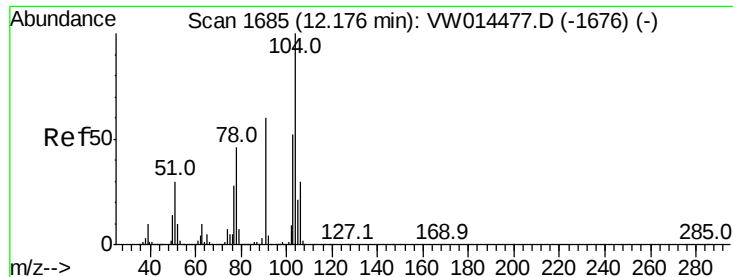
91 209.6 148.7 276.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 47.035 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampled :

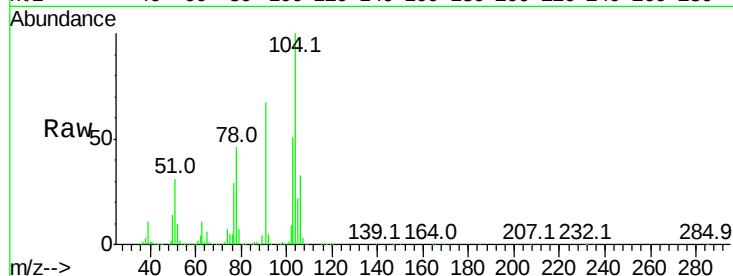
VSTD05005

Tgt Ion:104 Resp: 2305268

Ion Ratio Lower Upper

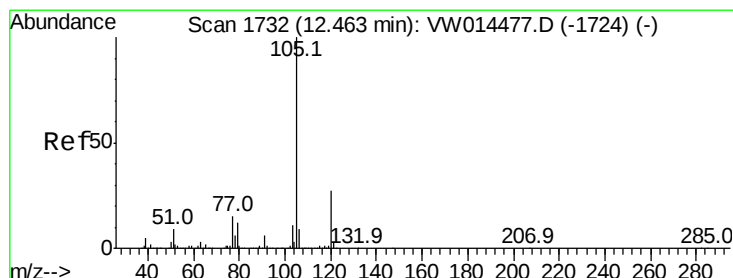
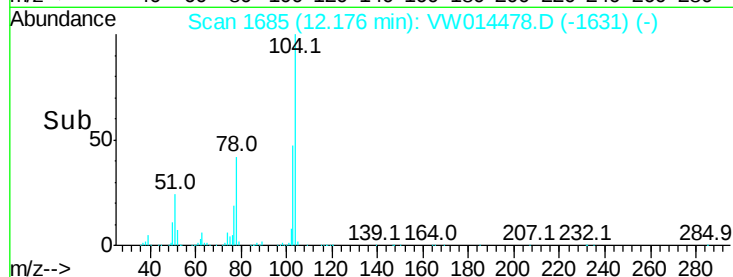
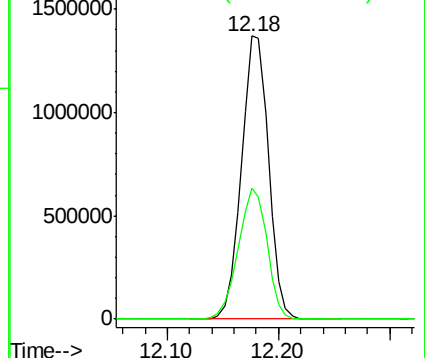
104 100

78 46.3 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV



#57

Isopropylbenzene

Concen: 49.186 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

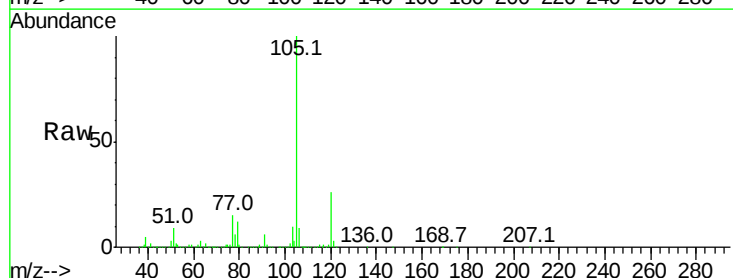
Tgt Ion:105 Resp: 3658282

Ion Ratio Lower Upper

105 100

120 26.5 21.0 31.6

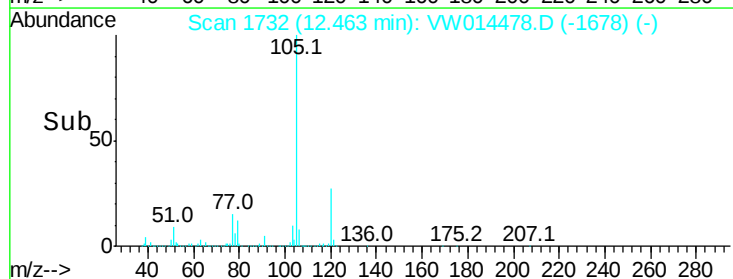
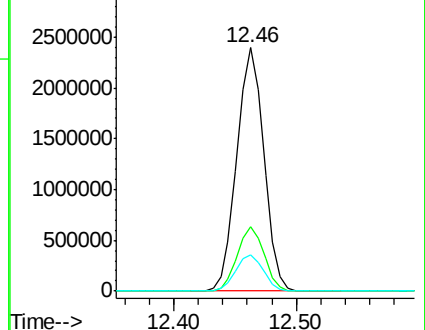
77 15.1 12.2 18.2

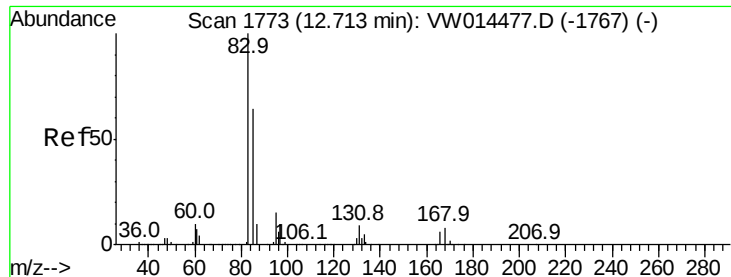


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV





#58

1,1,2,2-Tetrachloroethane

Concen: 40.751 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

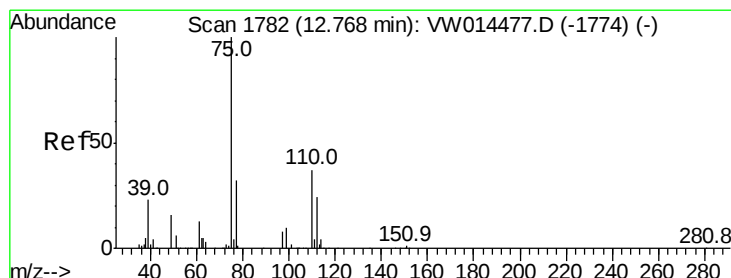
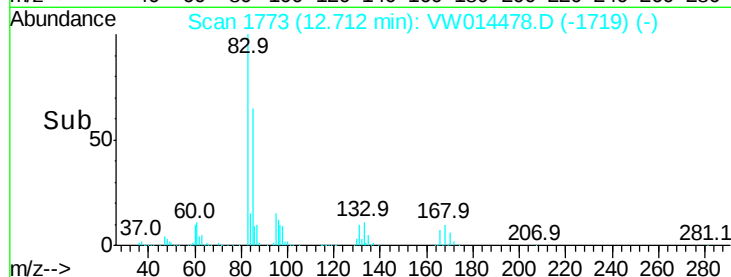
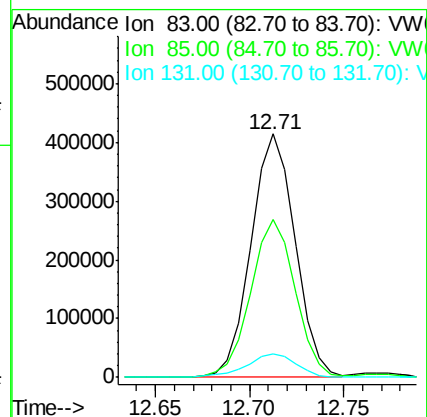
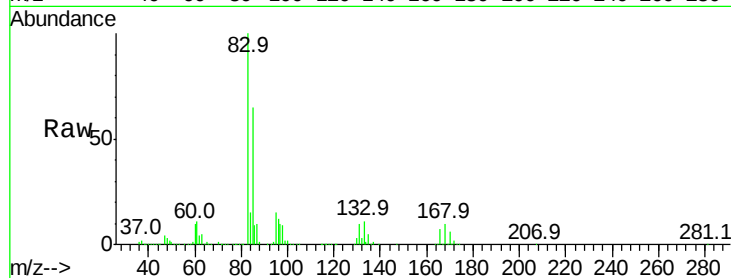
Tgt Ion: 83 Resp: 672078

Ion Ratio Lower Upper

83 100

85 64.8 45.3 84.1

131 9.7 8.0 12.0



#59

1,2,3-Trichloropropane

Concen: 40.449 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW014478.D

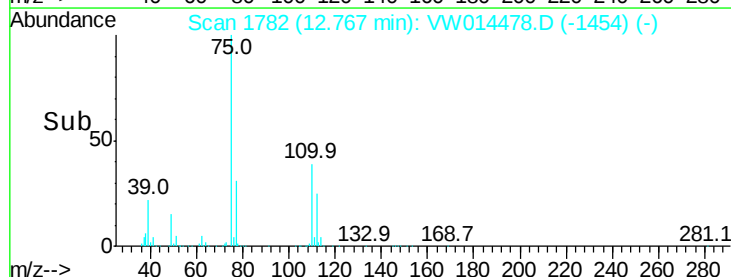
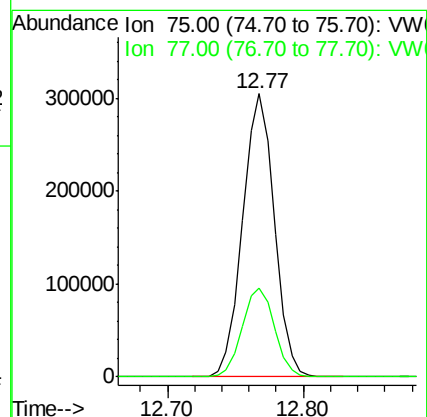
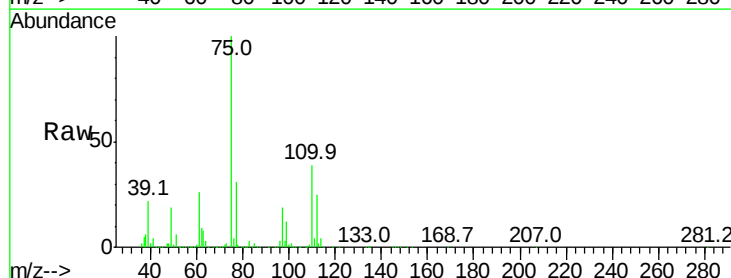
Acq: 27 Dec 2019 19:54

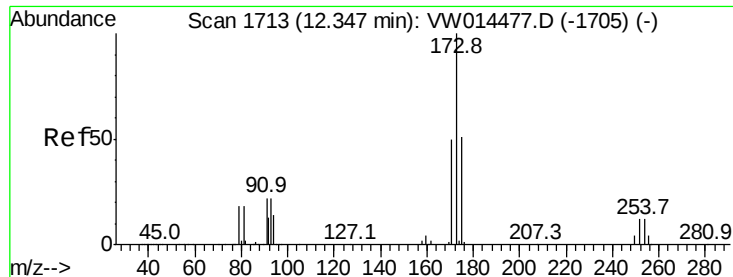
Tgt Ion: 75 Resp: 495702

Ion Ratio Lower Upper

75 100

77 31.9 26.2 39.2





#62

Bromoform

Concen: 42.168 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampled :

VSTD05005

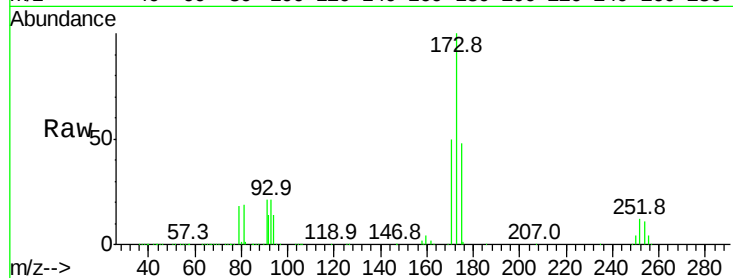
Tgt Ion:173 Resp: 385832

Ion Ratio Lower Upper

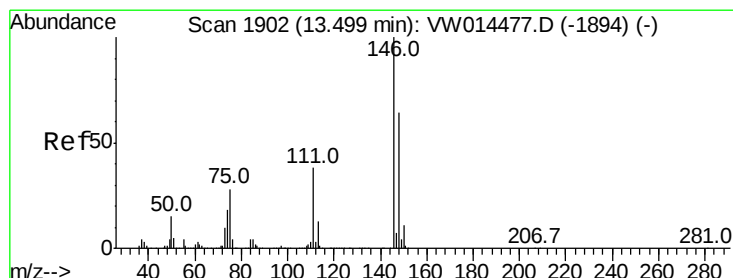
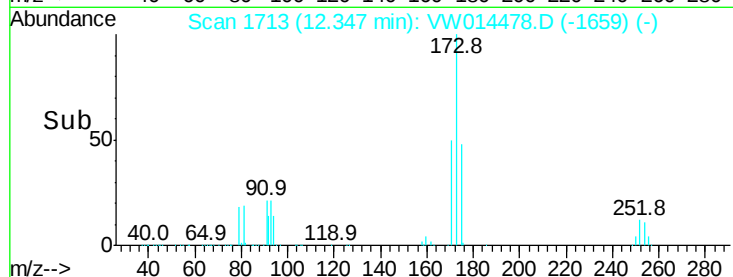
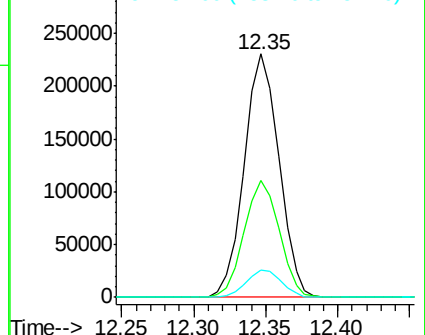
173 100

175 48.6 40.5 60.7

254 11.3 9.3 13.9



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 45.239 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

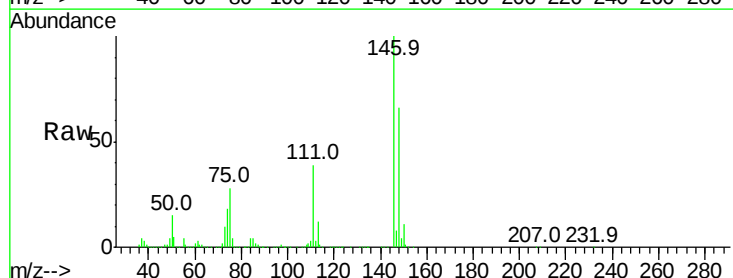
Tgt Ion:146 Resp: 1639255

Ion Ratio Lower Upper

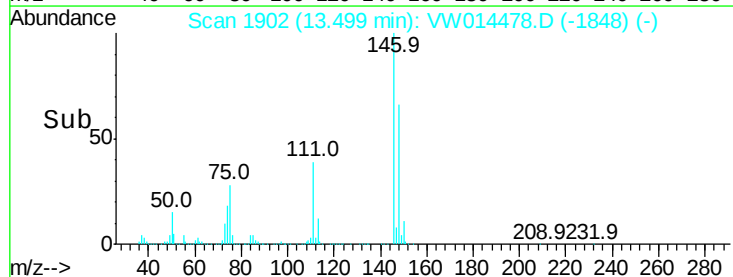
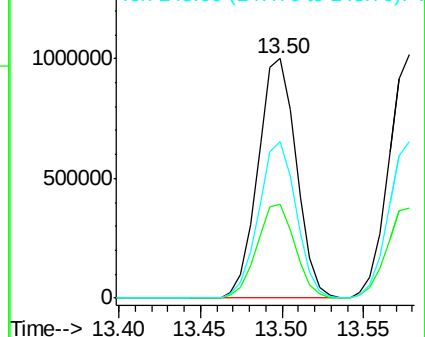
146 100

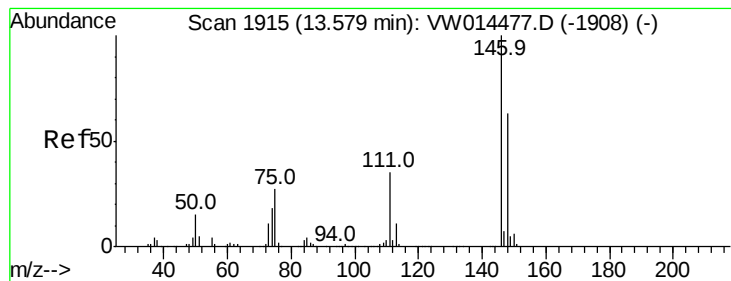
111 39.3 26.9 50.1

148 65.6 45.1 83.7



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: 43.657 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

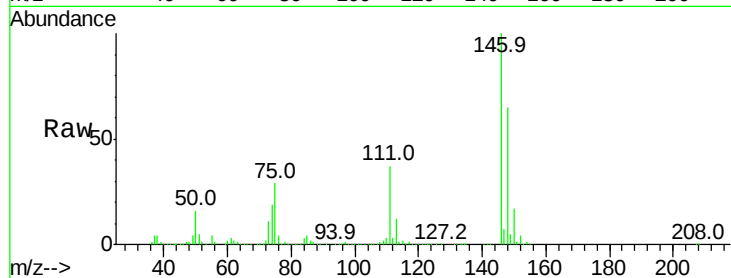
Tgt Ion:146 Resp: 1607231

Ion Ratio Lower Upper

146 100

111 37.1 24.5 45.5

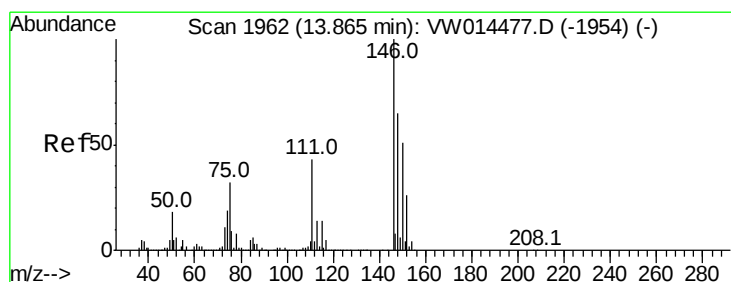
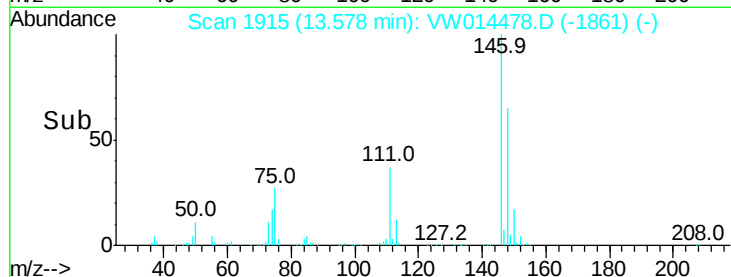
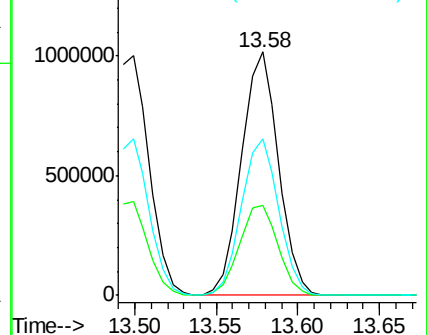
148 64.5 44.4 82.4



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: 43.883 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

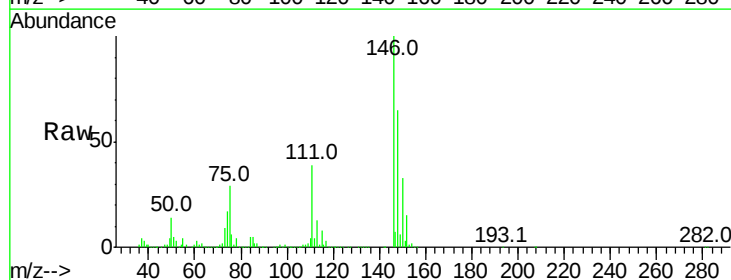
Tgt Ion:146 Resp: 1478702

Ion Ratio Lower Upper

146 100

111 39.1 34.2 51.2

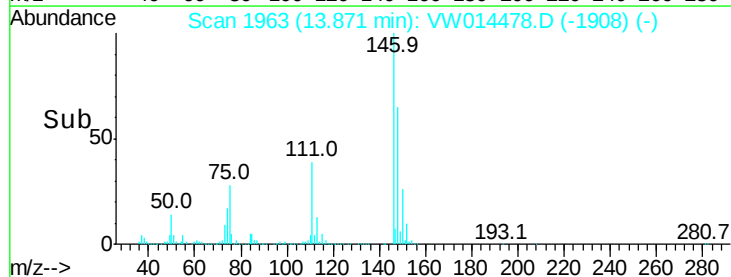
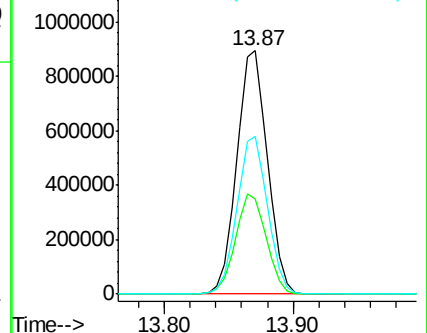
148 65.1 51.8 77.8

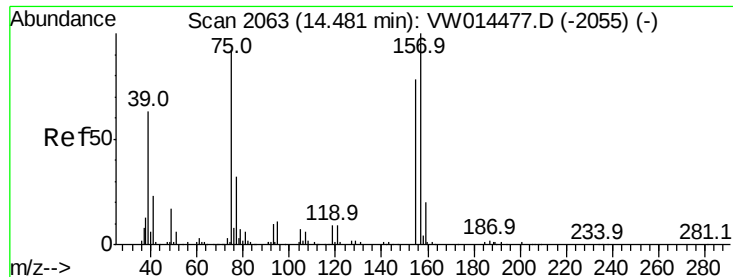


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

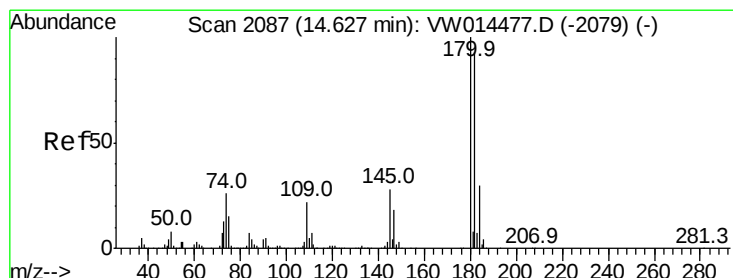
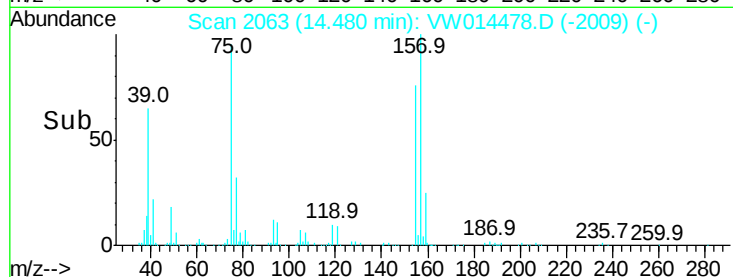
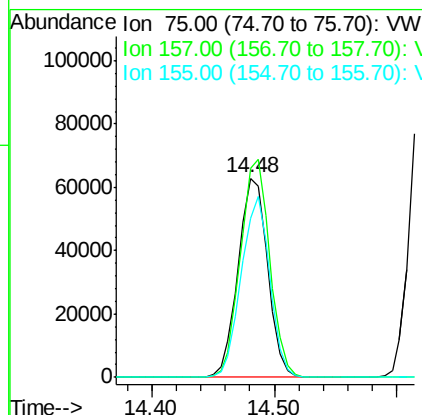
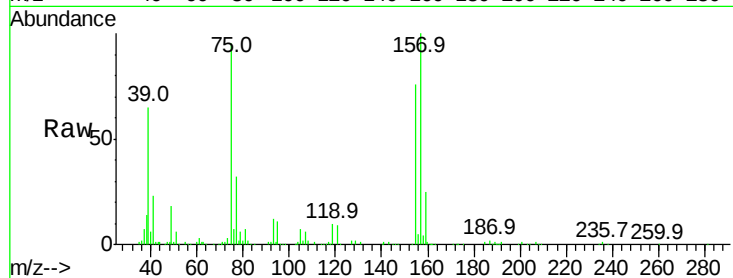




#66
 1,2-Dibromo-3-chloropropane
 Concen: 40.363 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014478.D
 Acq: 27 Dec 2019 19:54

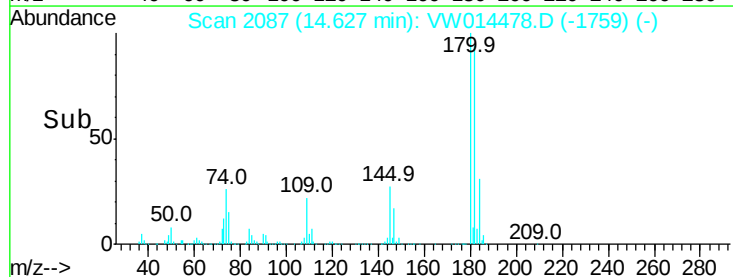
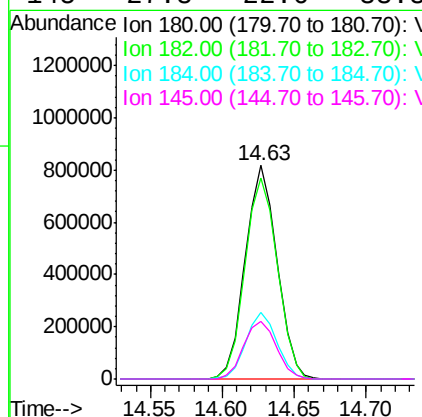
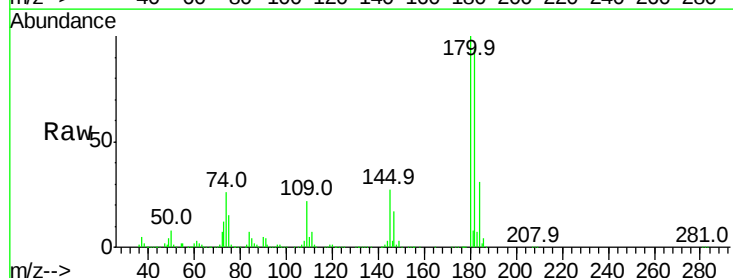
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05005

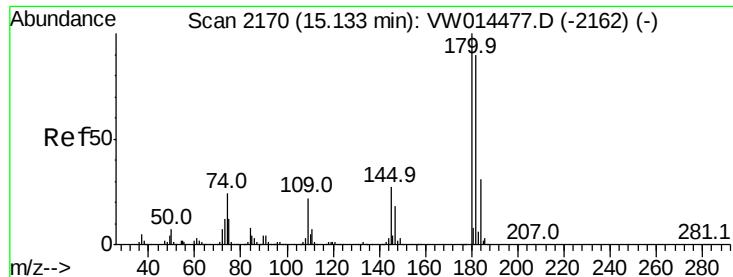
Tgt Ion: 75 Resp: 104921
 Ion Ratio Lower Upper
 75 100
 157 105.3 87.2 130.8
 155 80.1 67.8 101.8



#67
 1,3,5-Trichlorobenzene
 Concen: 47.889 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW014478.D
 Acq: 27 Dec 2019 19:54

Tgt Ion: 180 Resp: 1248472
 Ion Ratio Lower Upper
 180 100
 182 95.9 75.8 113.6
 184 30.6 24.0 36.0
 145 27.8 22.6 33.8





#68

1,2,4-trichlorobenzene

Concen: 50.032 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

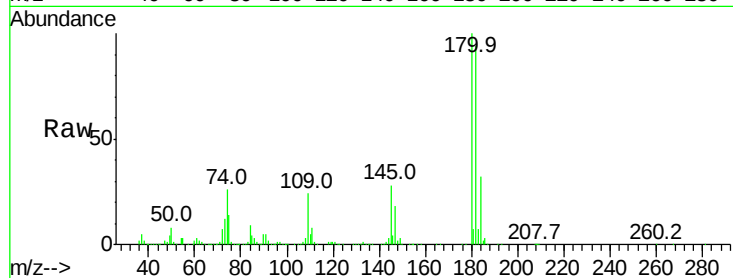
Tgt Ion:180 Resp: 1016835

Ion Ratio Lower Upper

180 100

182 93.8 76.2 114.4

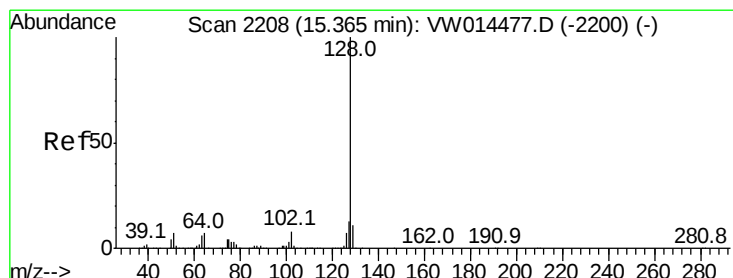
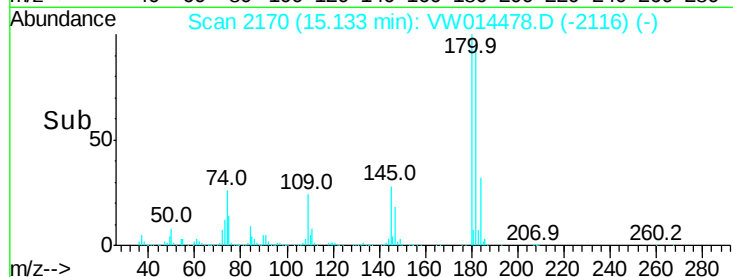
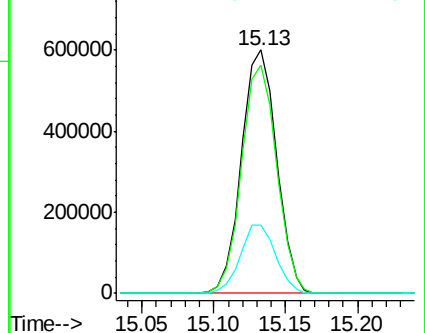
145 28.4 23.1 34.7



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: 48.047 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

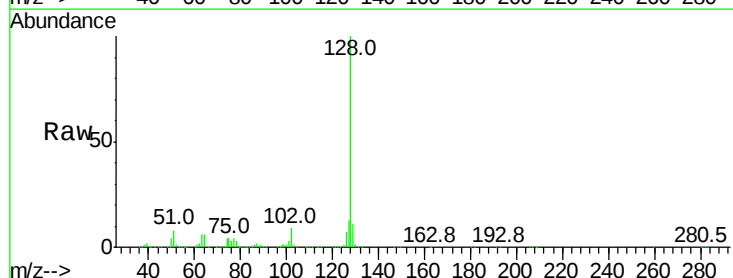
Tgt Ion:128 Resp: 1836359

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

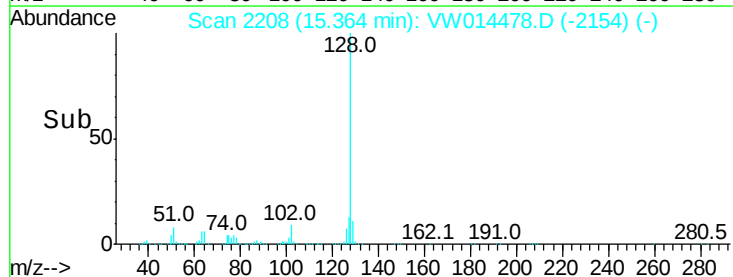
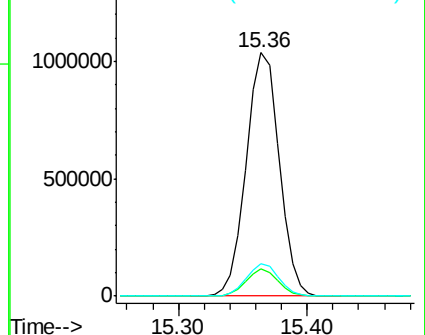
127 13.2 10.6 16.0

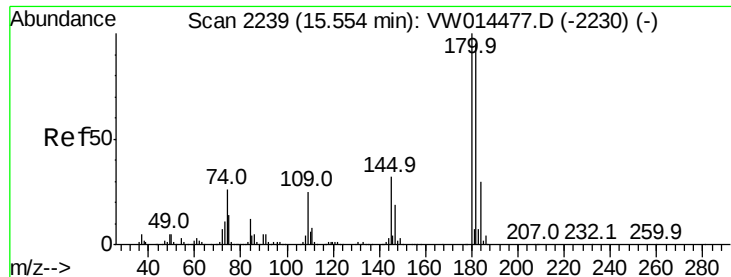


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70

1,2,3-Trichlorobenzene

Concen: 46.664 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW014478.D

Acq: 27 Dec 2019 19:54

Instrument :

MSVOA_W

ClientSampleId :

VSTD05005

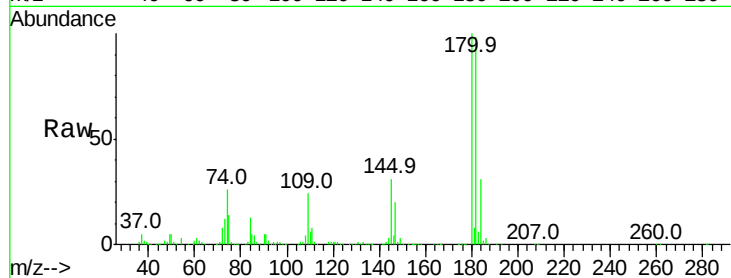
Tgt Ion:180 Resp: 889355

Ion Ratio Lower Upper

180 100

182 97.6 77.0 115.6

145 30.8 24.9 37.3



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

