

Data File : VW010762.D
Acq On : 11 Jun 2019 10:50
Operator : SY/VA
Sample : VSTD00521
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD00514

Quant Time: Jun 11 12:00:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM061119S.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 11 11:56:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	393430	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	353615	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	162029	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	33519	7.72	ug/L	0.00
7) Chloroethane-d5	2.87	69	24687	7.47	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.01	63	67237	6.18	ug/L	0.00
20) 2-Butanone-d5	7.08	46	29605	14.04	ug/L	0.00
24) Chloroform-d	7.65	84	29322	2.77	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	36269	5.87	ug/L	0.00
29) Benzene-d6	8.27	84	116427	5.98	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	36448	5.93	ug/L	0.00
37) Toluene-d8	10.32	98	103209	6.03	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	15594	5.71	ug/L	0.00
39) 2-Hexanone-d5	10.93	63	18652	12.15	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	31517	5.44	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	32559	5.49	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.00	85	30939	5.942 ug/L	100
3) Chloromethane	2.21	50	33335	6.733 ug/L	98
5) Vinyl chloride	2.36	62	31918	5.826 ug/L	99
6) Bromomethane	2.76	94	13508	4.477 ug/L	100
8) Chloroethane	2.91	64	18455	6.151 ug/L	95
9) Trichlorofluoromethane	3.25	101	42409	15.219 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	26163	4.957 ug/L	99
12) 1,1-Dichloroethene	4.03	96	23553	4.425 ug/L	85
13) Acetone	4.13	43	22440	13.525 ug/L	99
14) Carbon disulfide	4.38	76	70874	4.644 ug/L	98
15) Methyl Acetate	4.68	43	21263	5.851 ug/L	99
16) Methylene chloride	4.92	84	26511	4.059 ug/L	99
17) Methyl tert-butyl Ether	5.43	73	76924	10.921 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	26688	5.014 ug/L	94
19) 1,1-Dichloroethane	6.21	63	53407	5.110 ug/L	98
21) 2-Butanone	7.18	43	36460	14.404 ug/L	96
22) cis-1,2-Dichloroethene	7.17	96	29292	5.087 ug/L	98
23) Bromochloromethane	7.52	128	12228	4.635 ug/L	90
25) Chloroform	7.68	83	75479	7.303 ug/L	100
27) 1,2-Dichloroethane	8.40	62	39846	5.268 ug/L	100
30) Cyclohexane	7.96	56	55843	6.435 ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	42131	5.781 ug/L	99
32) Carbon tetrachloride	8.07	117	36295	4.836 ug/L	99
34) Benzene	8.32	78	114103	5.333 ug/L	100
35) Trichloroethene	9.09	95	29249	5.292 ug/L	98
36) Methylcyclohexane	9.34	83	52838	5.696 ug/L	99
40) 1,2-Dichloropropane	9.37	63	30240	5.445 ug/L	99
41) Bromodichloromethane	9.65	83	34198	4.755 ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	45496	5.438 ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	62233	13.135 ug/L	100

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ClientSampleId :
VSTD00514

Quant Time: Jun 11 12:00:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM061119S.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 11 11:56:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.39	91	117092	5.257	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	37587	5.222	ug/L	96
46) 1,1,2-Trichloroethane	10.79	97	22101	5.226	ug/L	97
47) Tetrachloroethene	10.86	164	21363	5.020	ug/L	98
49) 2-Hexanone	10.97	43	45168	12.921	ug/L	98
50) Dibromochloromethane	11.13	129	22913	4.717	ug/L	98
51) 1,2-Dibromoethane	11.24	107	21521	5.213	ug/L	100
52) Chlorobenzene	11.66	112	71629	5.021	ug/L	99
53) Ethylbenzene	11.73	91	132306	5.321	ug/L	99
54) m,p-Xylene	11.84	106	47364	5.170	ug/L	96
55) o-xylene	12.16	106	45354	5.248	ug/L	98
56) Styrene	12.18	104	76834	5.098	ug/L	99
57) Isopropylbenzene	12.46	105	124518	5.317	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	29707	5.237	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	23675	5.481	ug/L	99
62) Bromoform	12.35	173	13302	4.884	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	52122	5.286	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	53444	5.074	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	48467	5.090	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	5436	5.468	ug/L	90
67) 1,3,5-Trichlorobenzene	14.63	180	38651	5.187	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	31370	5.201	ug/L	99
69) Naphthalene	15.37	128	67151	5.027	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	28534	4.943	ug/L	99

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

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VSTD00514

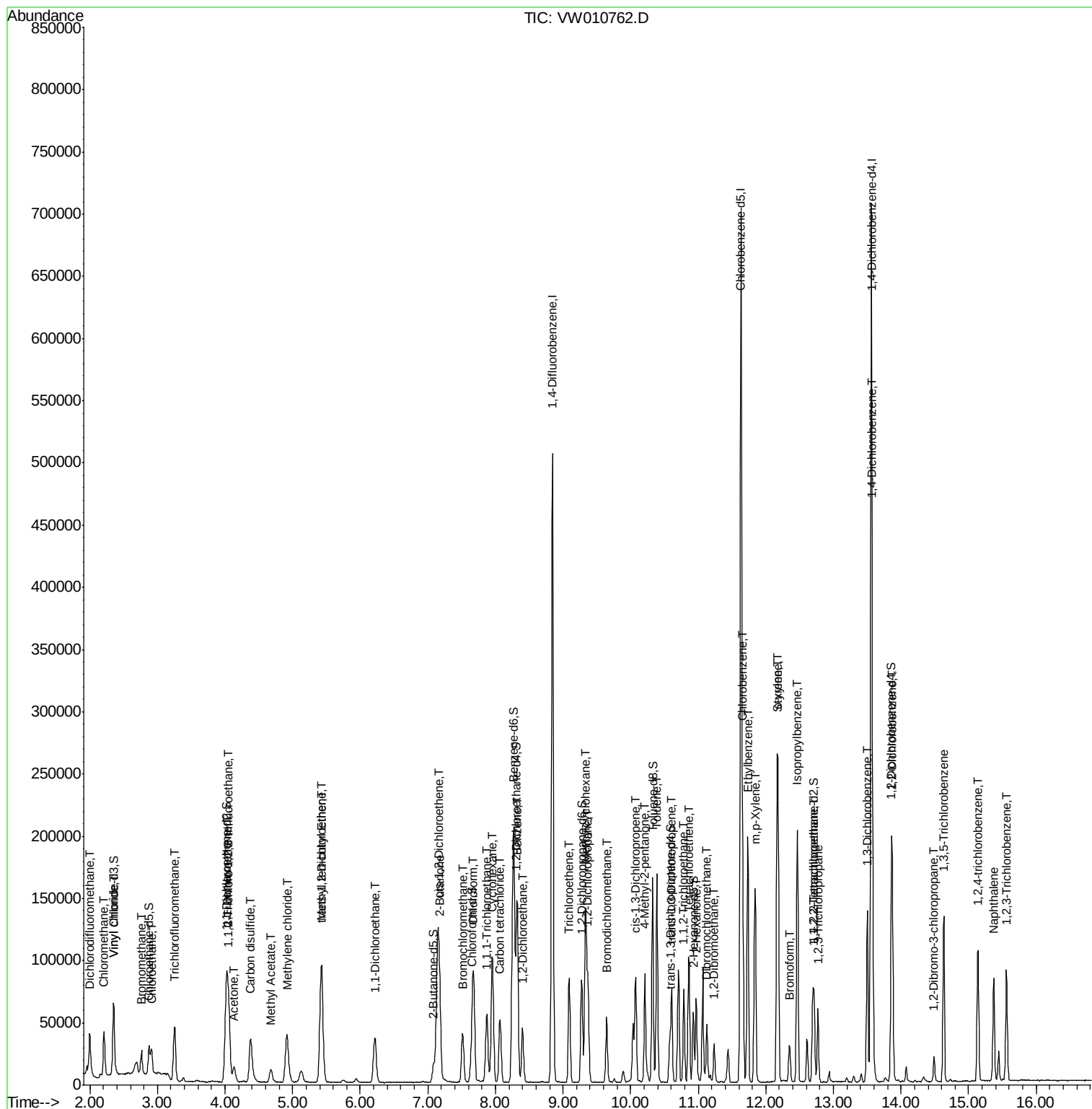
Quant Time: Jun 11 12:00:18 2019

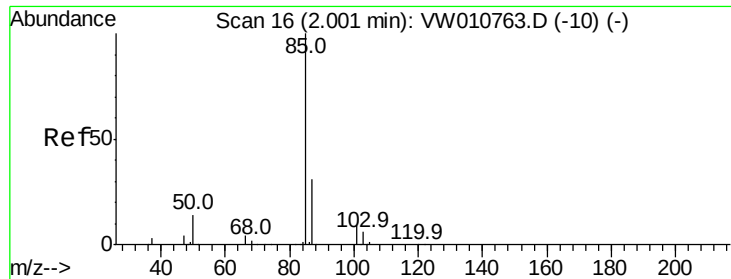
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM061119S.M

Quant Title : VOC Analysis

QLast Update : Tue Jun 11 11:56:59 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.942 ug/L

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

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Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

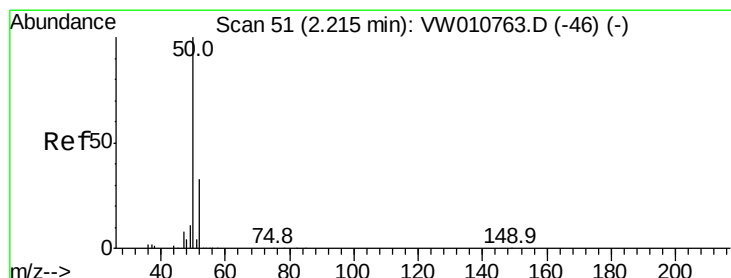
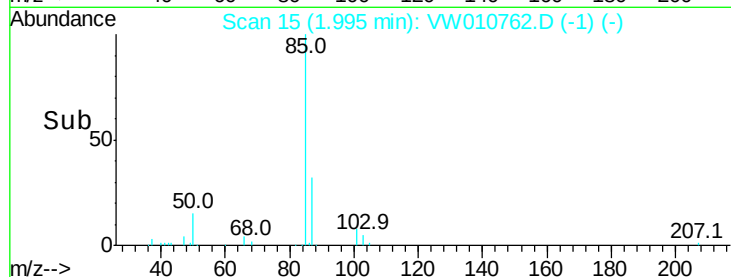
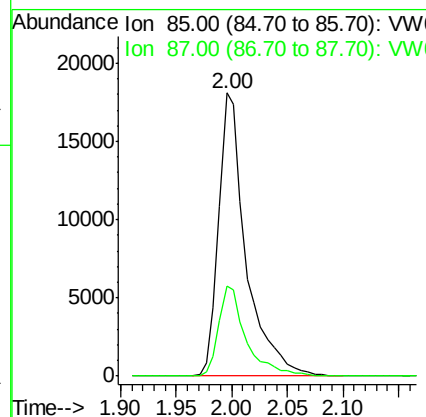
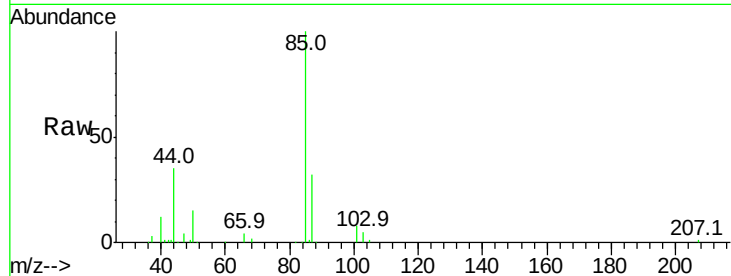
VSTD00514

Tgt Ion: 85 Resp: 30939

Ion Ratio Lower Upper

85 100

87 31.8 22.4 41.6



#3

Chloromethane

Concen: 6.733 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW010762.D

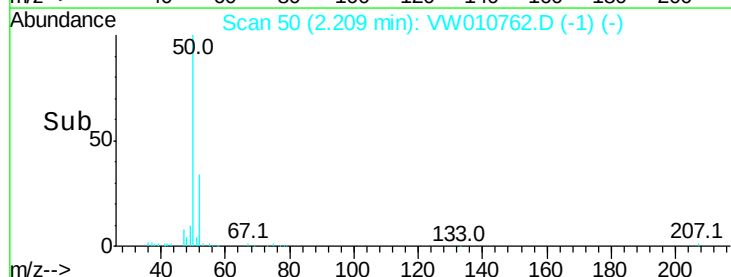
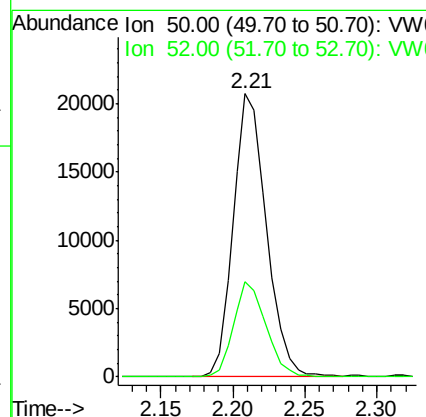
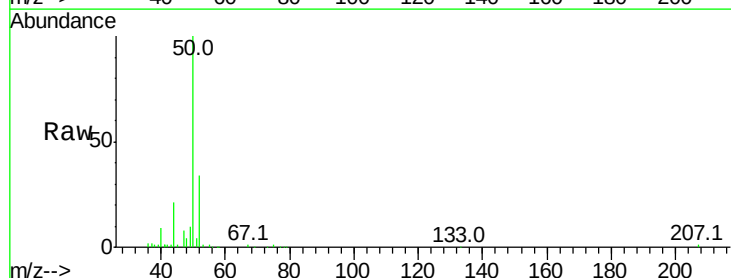
Acq: 11 Jun 2019 10:50

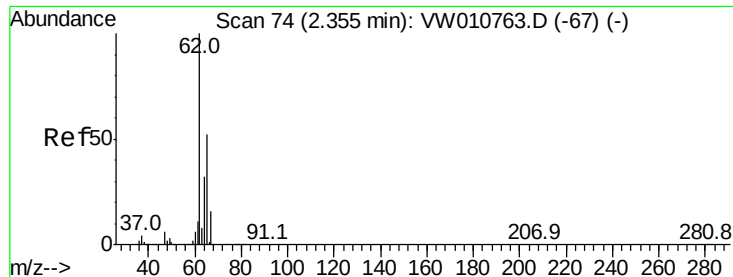
Tgt Ion: 50 Resp: 33335

Ion Ratio Lower Upper

50 100

52 33.6 22.8 42.4





#5

Vinyl chloride

Concen: 5.826 ug/L

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

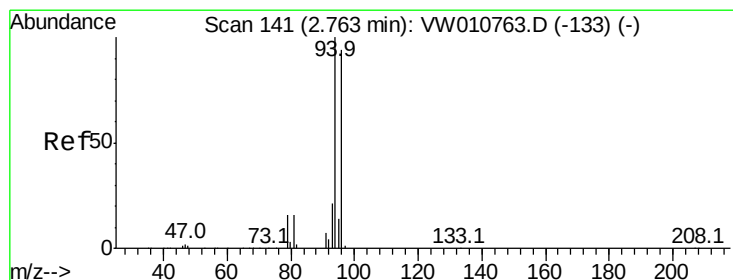
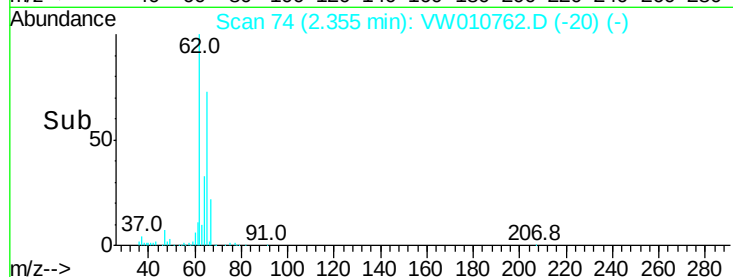
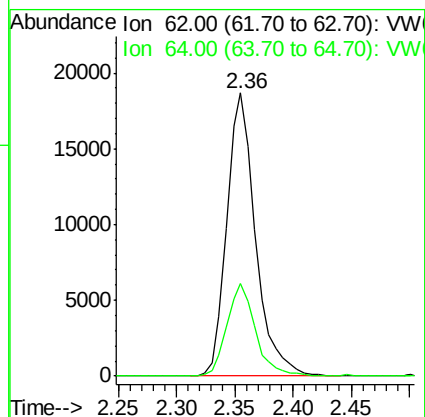
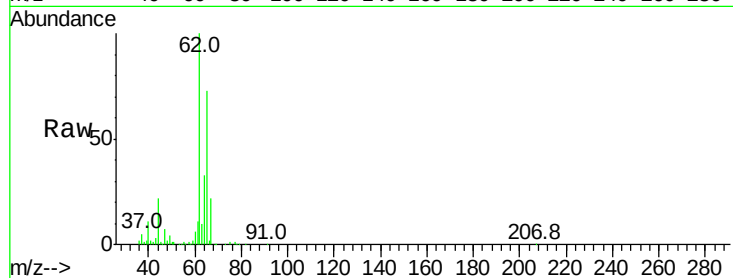
VSTD00514

Tgt Ion: 62 Resp: 31918

Ion Ratio Lower Upper

62 100

64 32.7 22.4 41.6



#6

Bromomethane

Concen: 4.477 ug/L

RT: 2.76 min Scan# 141

Delta R.T. 0.00 min

Lab File: VW010762.D

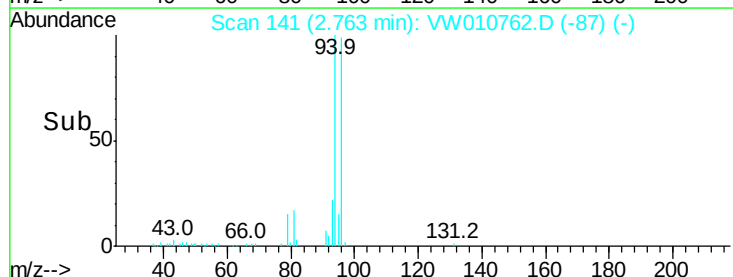
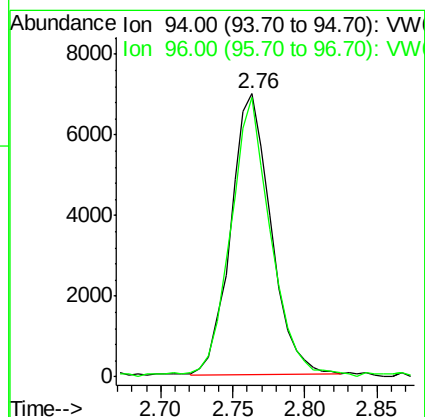
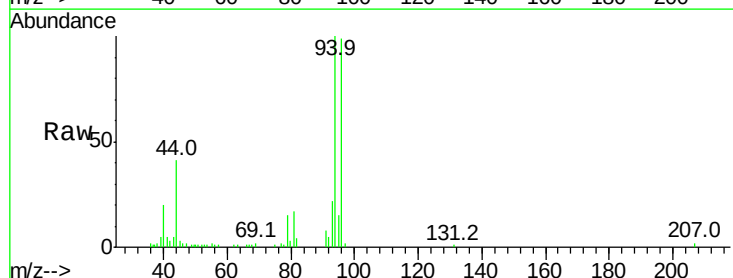
Acq: 11 Jun 2019 10:50

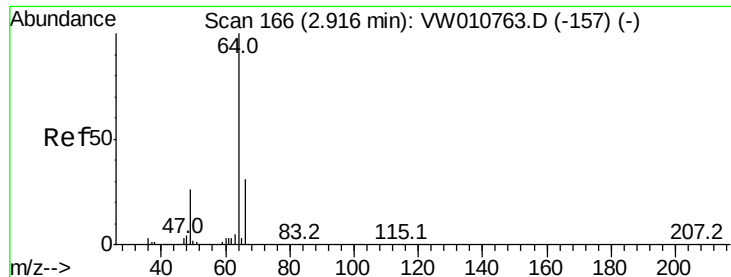
Tgt Ion: 94 Resp: 13508

Ion Ratio Lower Upper

94 100

96 94.9 9.5 180.7





#8

Chloroethane

Concen: 6.151 ug/L

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

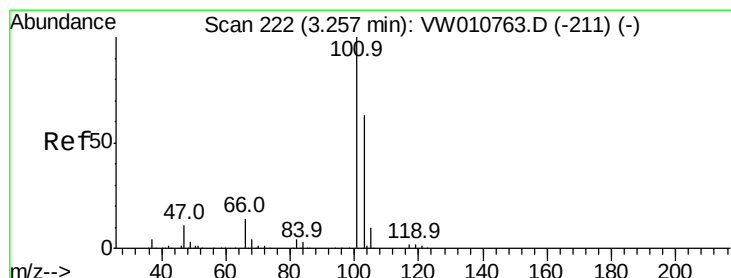
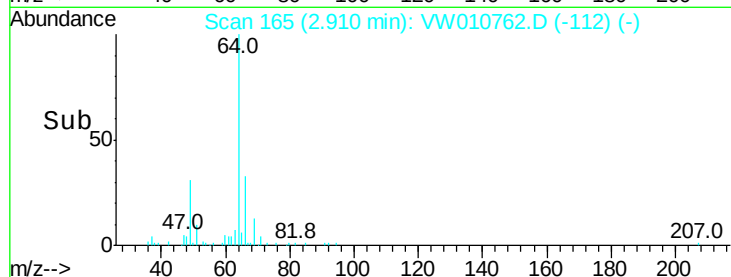
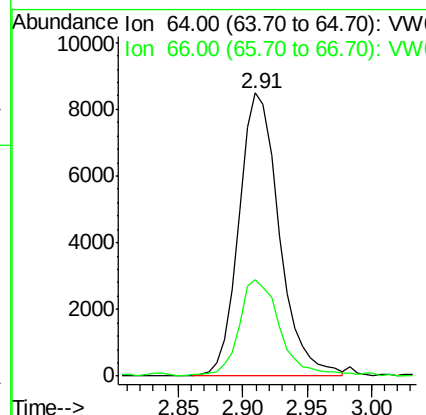
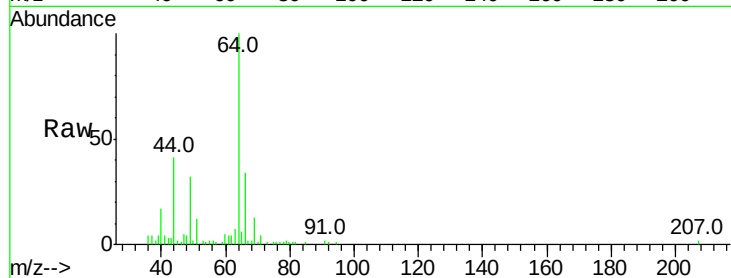
VSTD00514

Tgt Ion: 64 Resp: 18455

Ion Ratio Lower Upper

64 100

66 34.0 21.8 40.4



#9

Trichlorofluoromethane

Concen: 15.219 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW010762.D

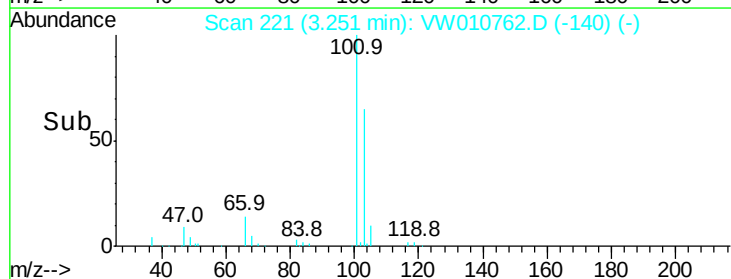
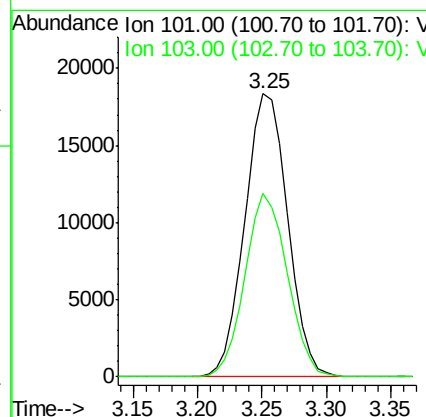
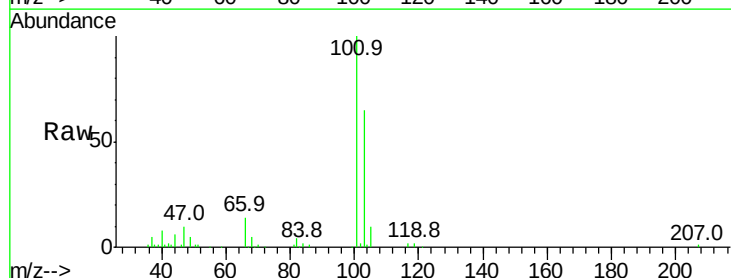
Acq: 11 Jun 2019 10:50

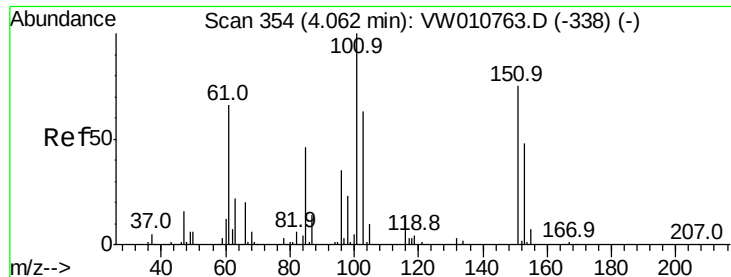
Tgt Ion: 101 Resp: 42409

Ion Ratio Lower Upper

101 100

103 64.1 45.1 83.7





#11

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

Concen: 4.957 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampled :

VSTD00514

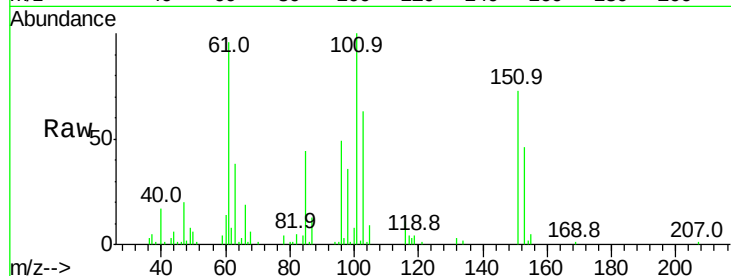
Tgt Ion: 101 Resp: 26163

Ion Ratio Lower Upper

101 100

85 43.6 35.9 53.9

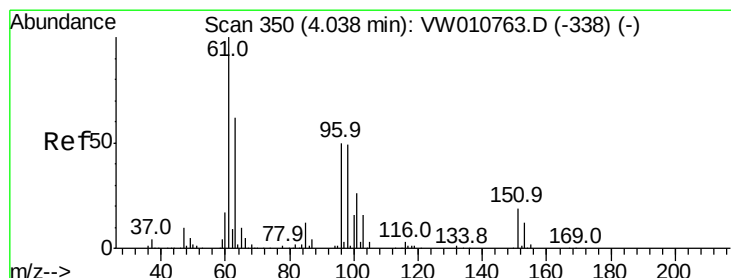
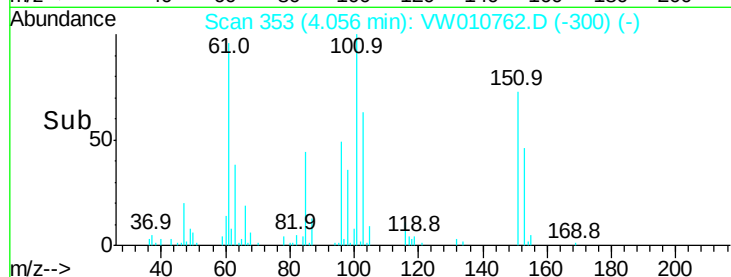
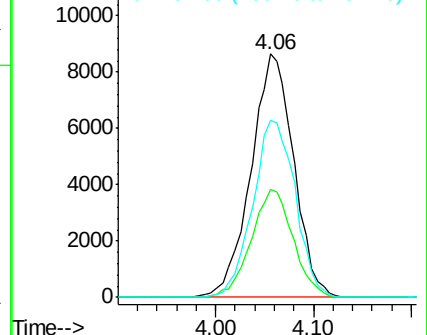
151 72.7 58.6 88.0



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: 4.425 ug/L

RT: 4.03 min Scan# 349

Delta R.T. -0.01 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

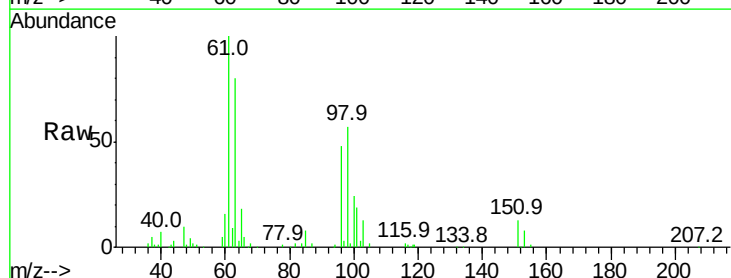
Tgt Ion: 96 Resp: 23553

Ion Ratio Lower Upper

96 100

61 206.9 139.9 259.7

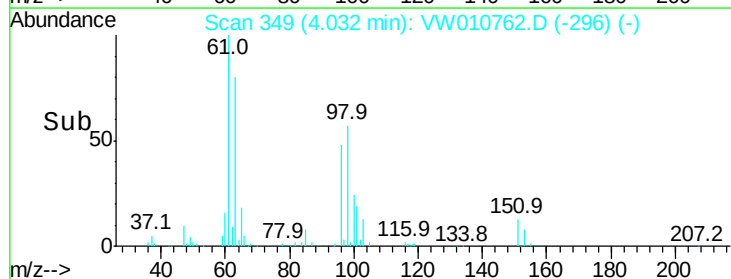
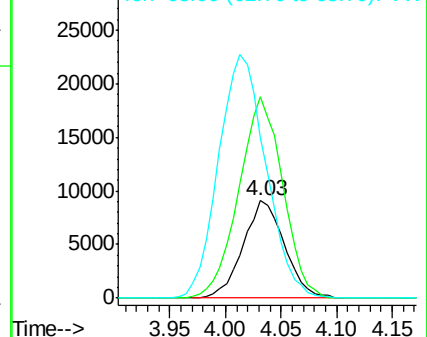
63 164.6 89.2 165.8

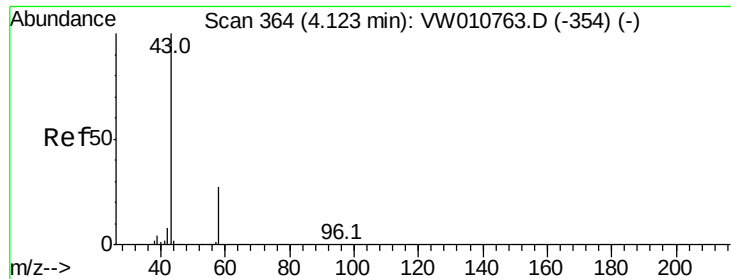


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 13.525 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

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Instrument :

MSVOA_W

ClientSampleId :

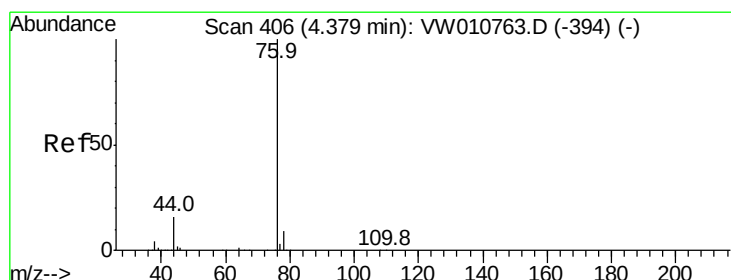
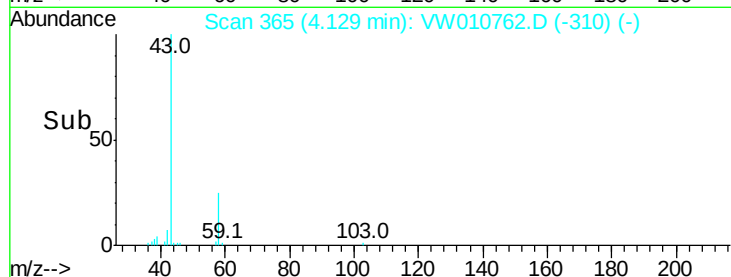
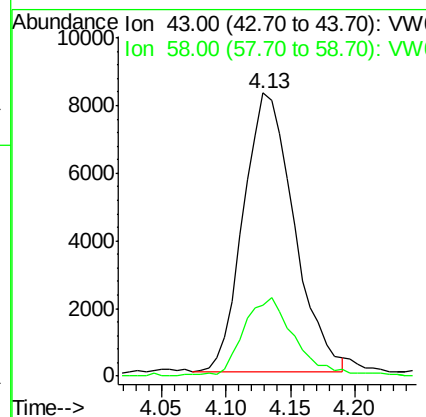
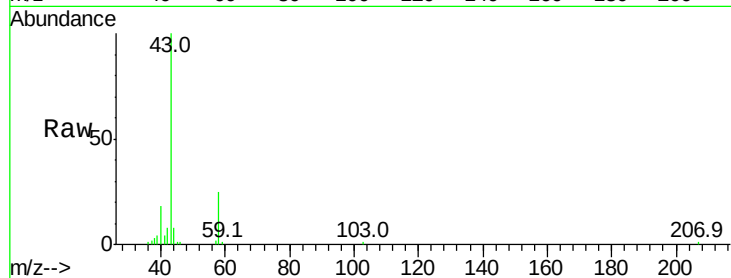
VSTD00514

Tgt Ion: 43 Resp: 22440

Ion Ratio Lower Upper

43 100

58 27.7 0.0 54.6



#14

Carbon disulfide

Concen: 4.644 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW010762.D

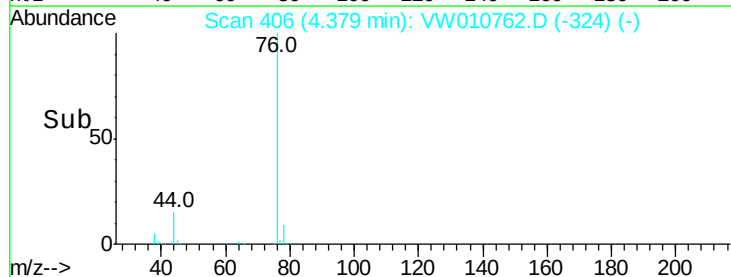
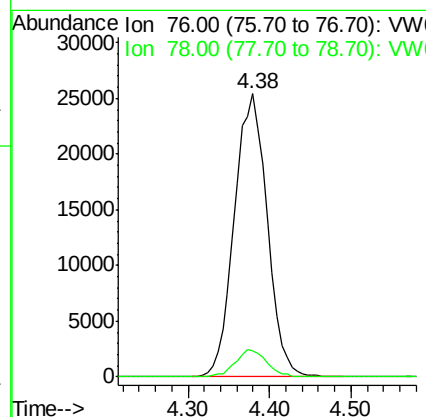
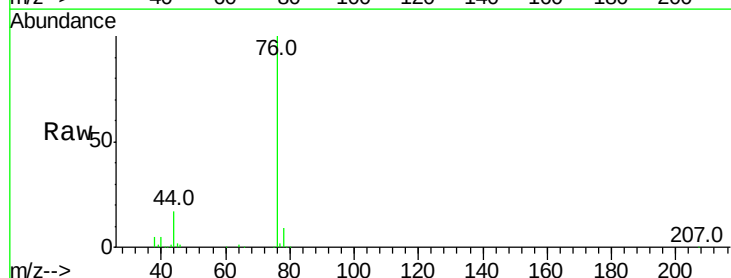
Acq: 11 Jun 2019 10:50

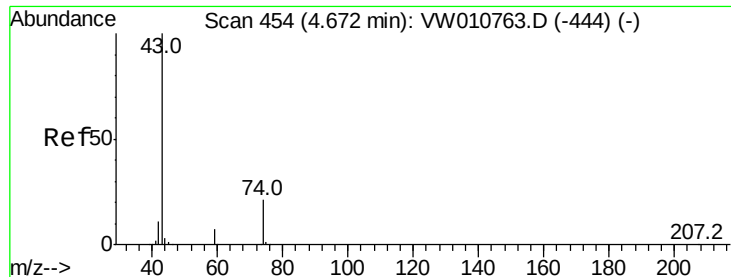
Tgt Ion: 76 Resp: 70874

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4

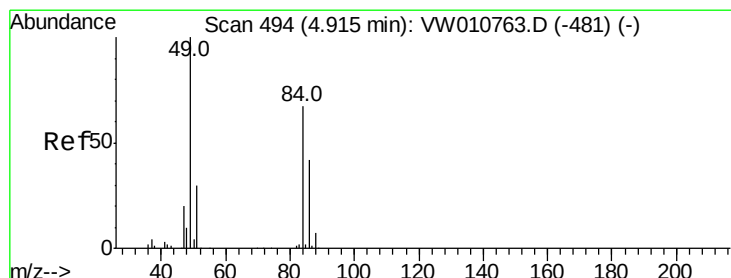
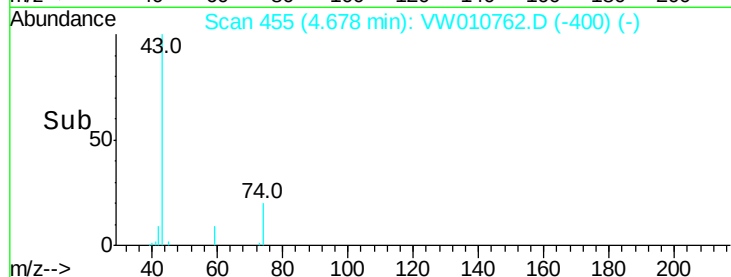
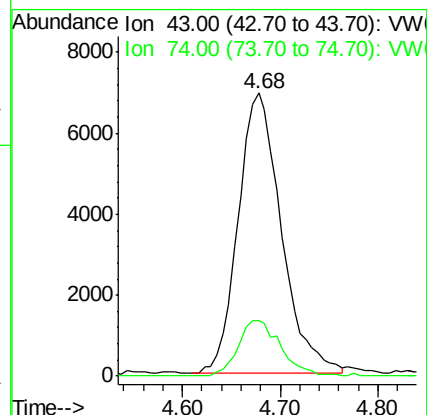
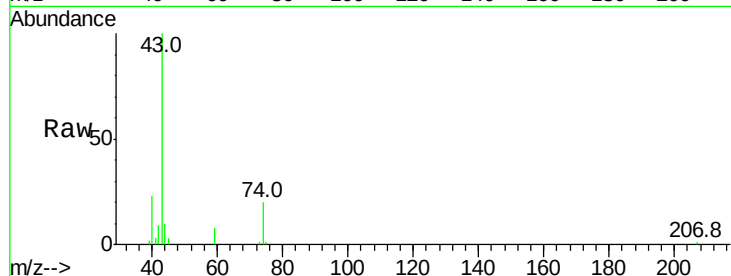




#15
Methyl Acetate
Concen: 5.851 ug/L
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW010762.D
Acq: 11 Jun 2019 10:50

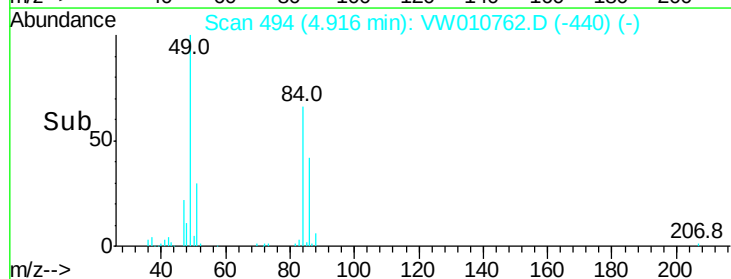
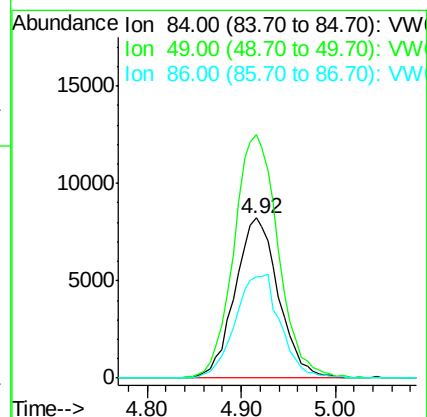
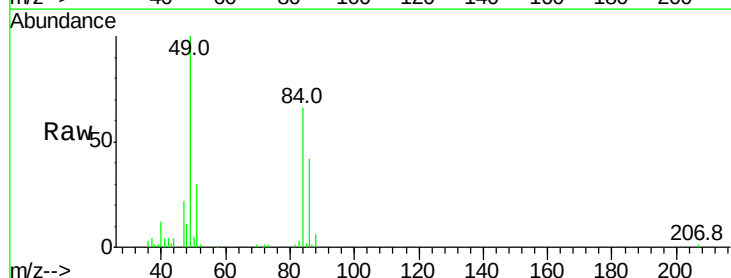
Instrument :
MSVOA_W
ClientSampled :
VSTD00514

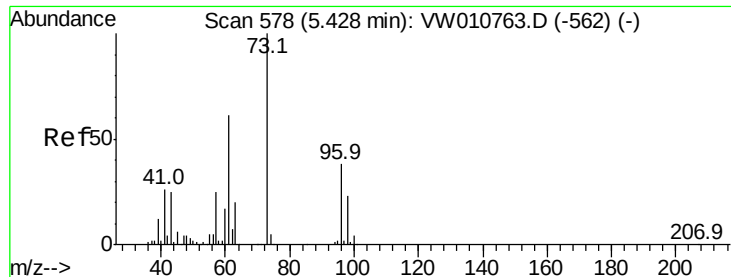
Tgt Ion: 43 Resp: 21263
Ion Ratio Lower Upper
43 100
74 19.3 15.0 22.6



#16
Methylene chloride
Concen: 4.059 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW010762.D
Acq: 11 Jun 2019 10:50

Tgt Ion: 84 Resp: 26511
Ion Ratio Lower Upper
84 100
49 152.0 105.2 195.4
86 63.5 43.7 81.1

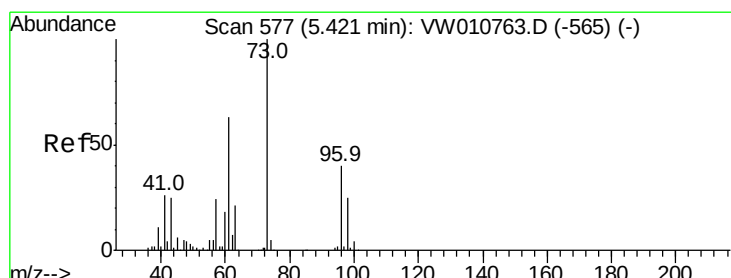
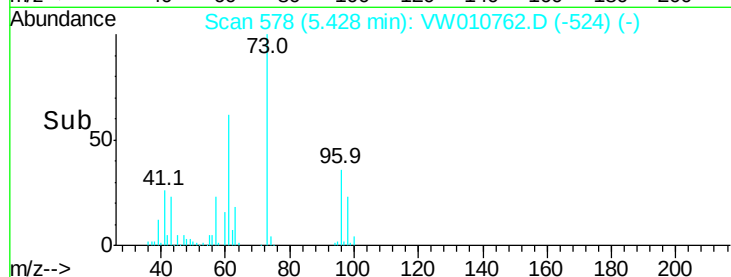
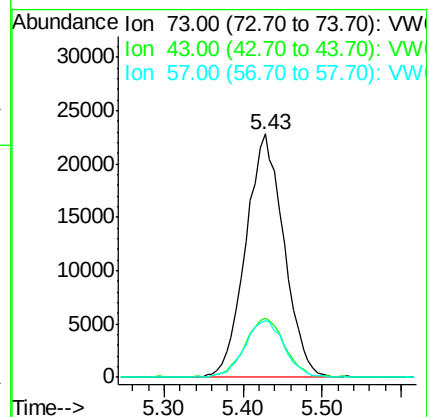
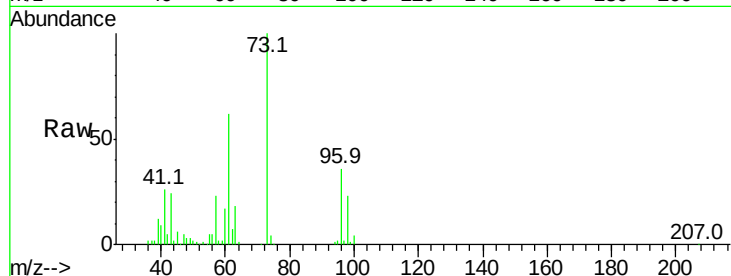




#17
Methyl tert-butyl Ether
Concen: 10.921 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW010762.D
Acq: 11 Jun 2019 10:50

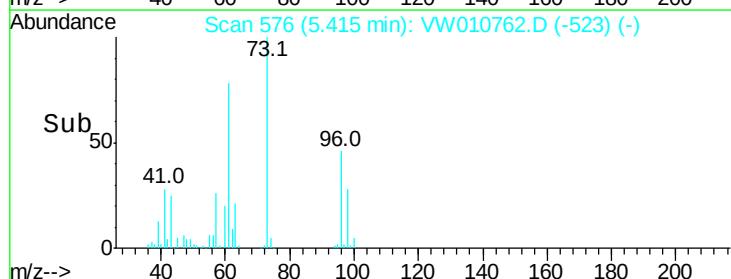
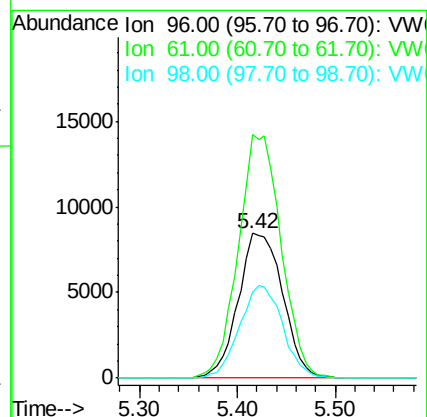
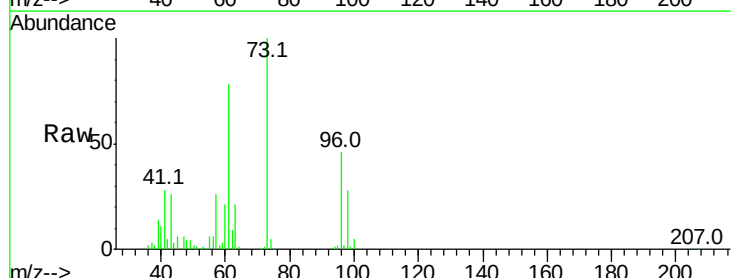
Instrument :
MSVOA_W
ClientSampled :
VSTD00514

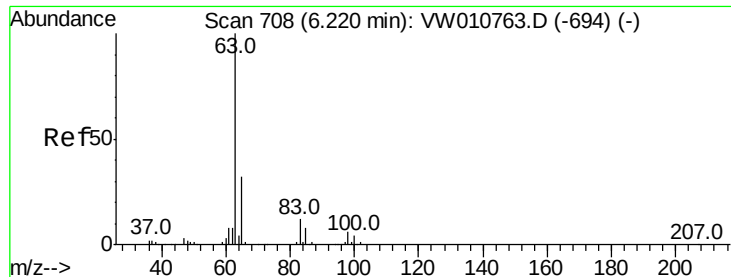
Tgt Ion: 73 Resp: 76924
Ion Ratio Lower Upper
73 100
43 25.4 19.8 29.6
57 24.0 19.2 28.8



#18
trans-1,2-Dichloroethene
Concen: 5.014 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW010762.D
Acq: 11 Jun 2019 10:50

Tgt Ion: 96 Resp: 26688
Ion Ratio Lower Upper
96 100
61 168.5 111.5 207.1
98 59.8 44.1 81.9





#19

1,1-Dichloroethane

Concen: 5.110 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampled :

VSTD00514

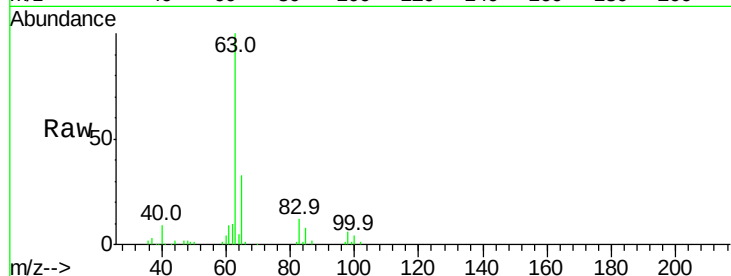
Tgt Ion: 63 Resp: 53407

Ion Ratio Lower Upper

63 100

65 33.0 22.2 41.2

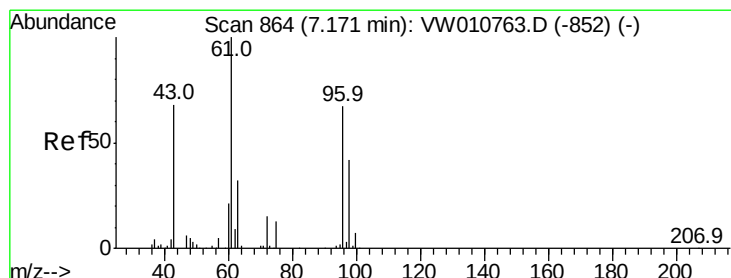
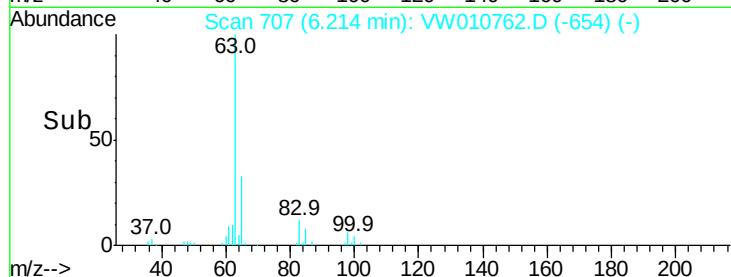
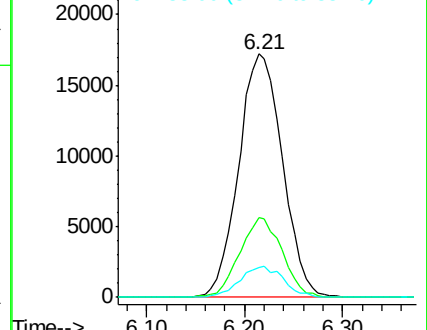
83 12.1 8.6 16.0



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: 14.404 ug/L

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW010762.D

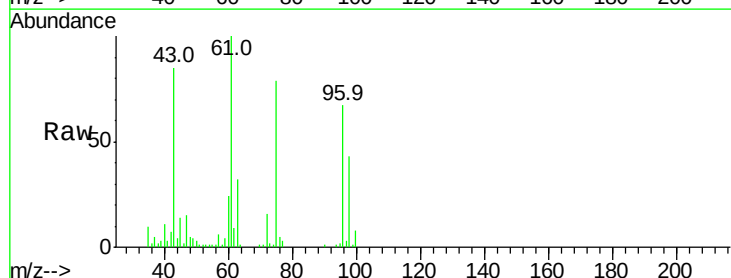
Acq: 11 Jun 2019 10:50

Tgt Ion: 43 Resp: 36460

Ion Ratio Lower Upper

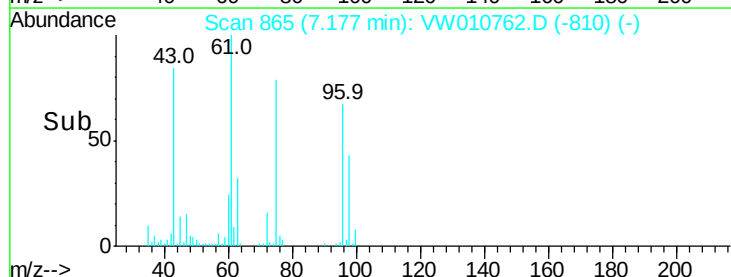
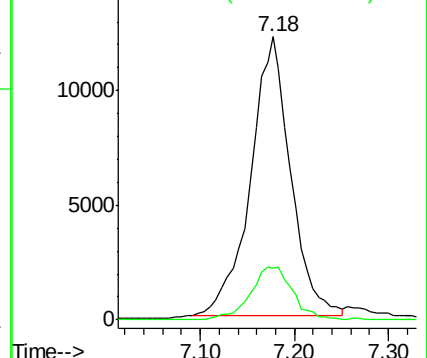
43 100

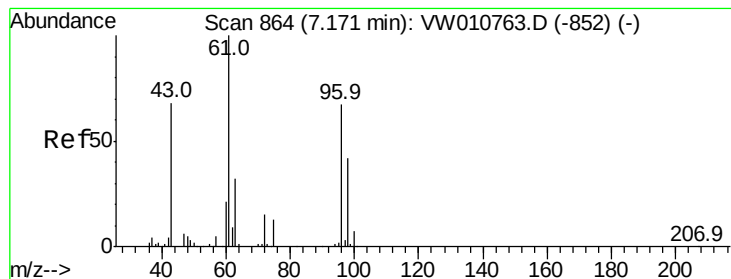
72 20.0 11.0 33.0



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: 5.087 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD00514

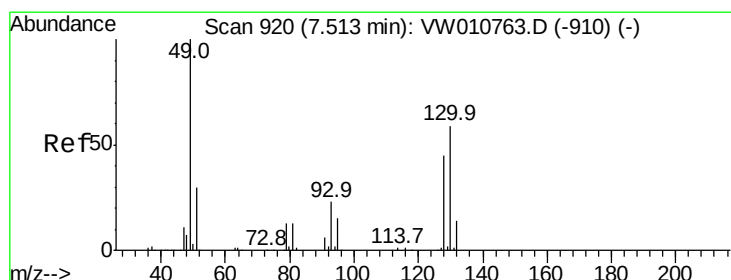
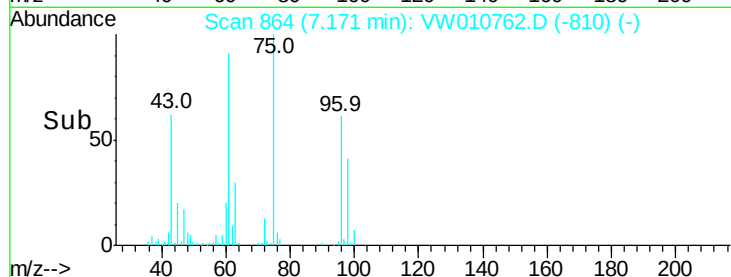
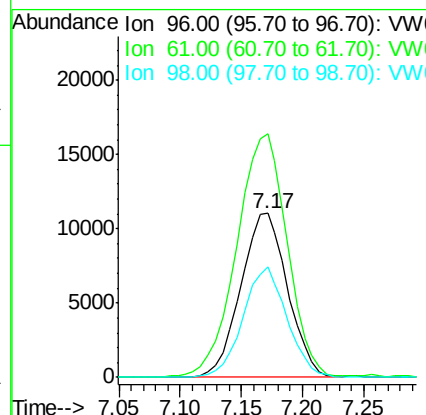
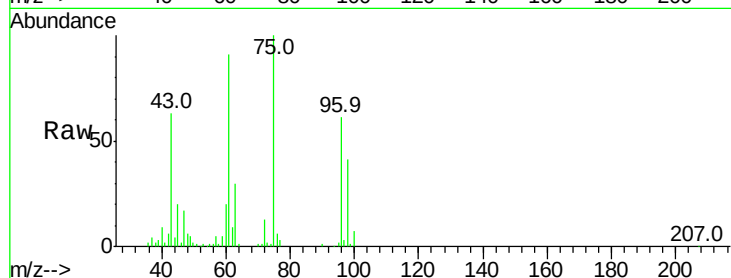
Tgt Ion: 96 Resp: 29292

Ion Ratio Lower Upper

96 100

61 148.8 105.3 195.6

98 67.4 44.6 82.8



#23

Bromochloromethane

Concen: 4.635 ug/L

RT: 7.52 min Scan# 921

Delta R.T. 0.01 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Tgt Ion: 128 Resp: 12228

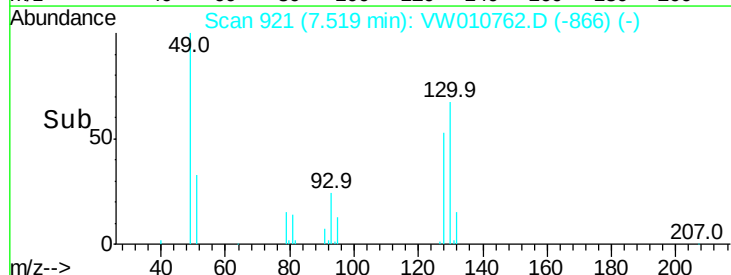
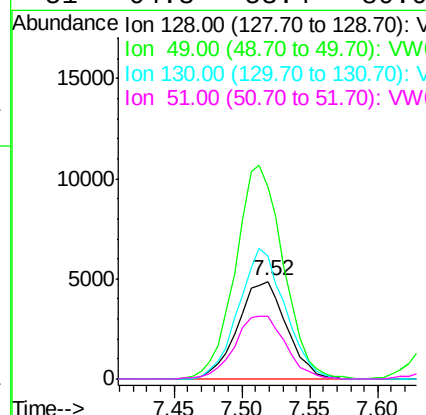
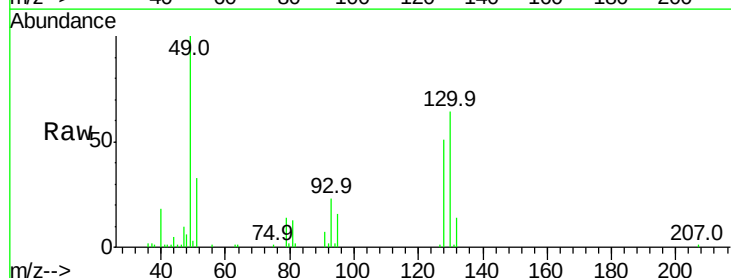
Ion Ratio Lower Upper

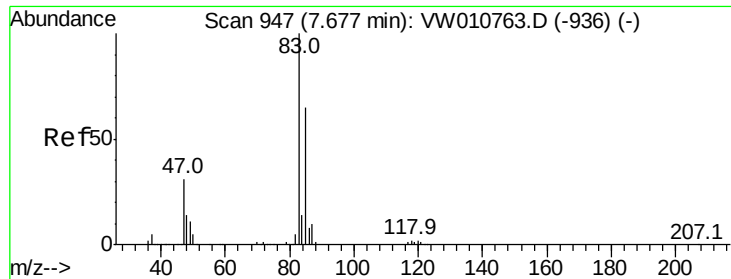
128 100

49 197.7 155.1 288.1

130 126.0 91.3 169.6

51 64.3 53.4 80.0

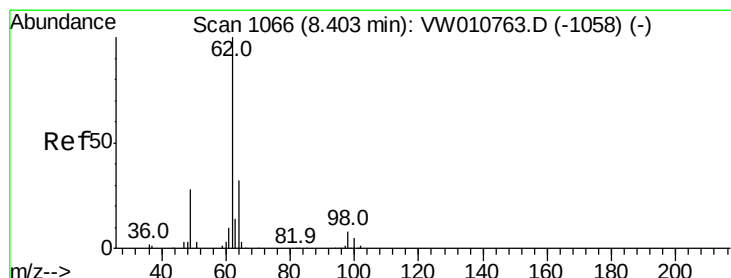
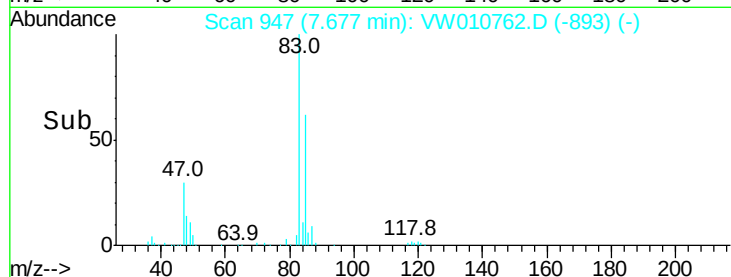
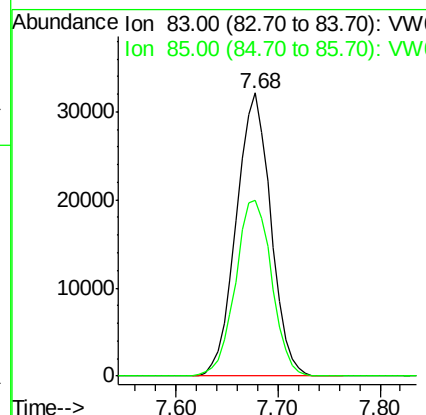
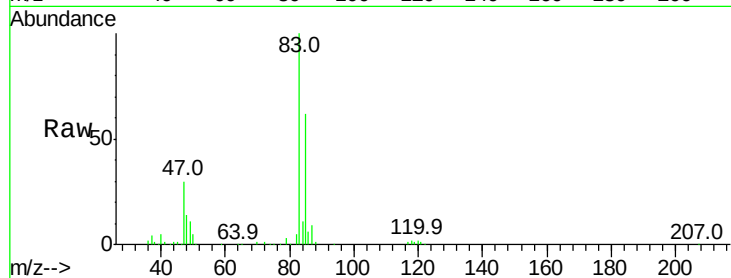




#25
Chloroform
Concen: 7.303 ug/L
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW010762.D
Acq: 11 Jun 2019 10:50

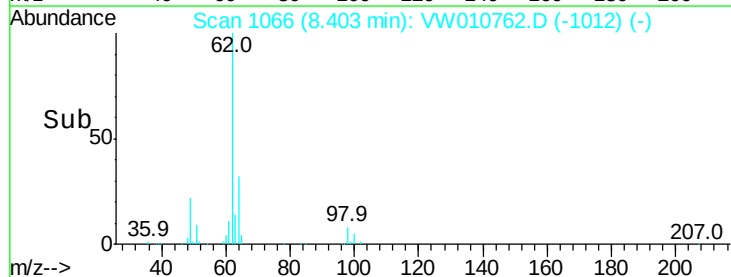
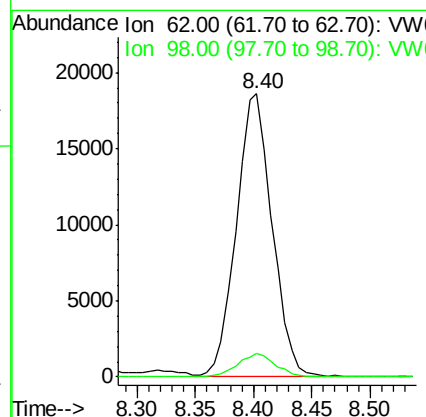
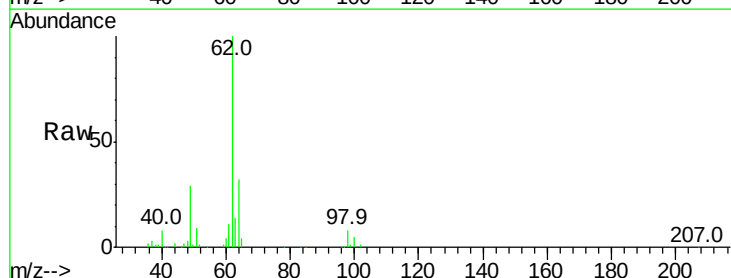
Instrument :
MSVOA_W
ClientSampleId :
VSTD00514

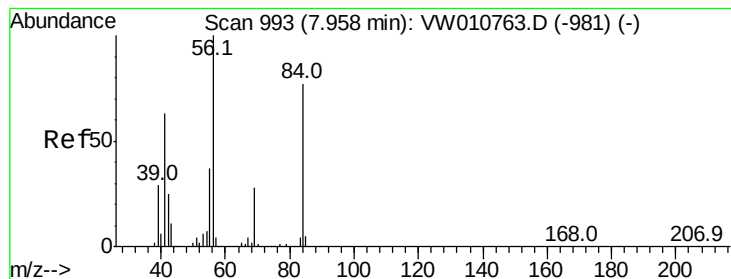
Tgt Ion: 83 Resp: 75479
Ion Ratio Lower Upper
83 100
85 65.2 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.268 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW010762.D
Acq: 11 Jun 2019 10:50

Tgt Ion: 62 Resp: 39846
Ion Ratio Lower Upper
62 100
98 8.5 6.6 10.0





#30

Cyclohexane

Concen: 6.435 ug/L

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampled :

VSTD00514

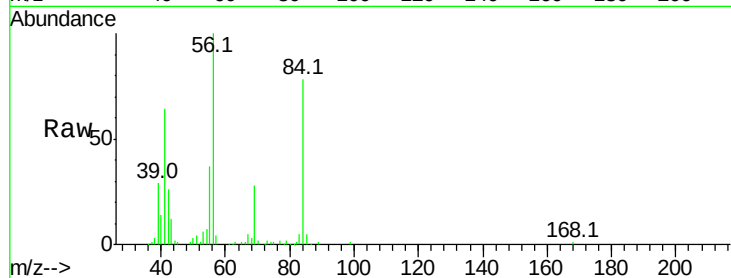
Tgt Ion: 56 Resp: 55843

Ion Ratio Lower Upper

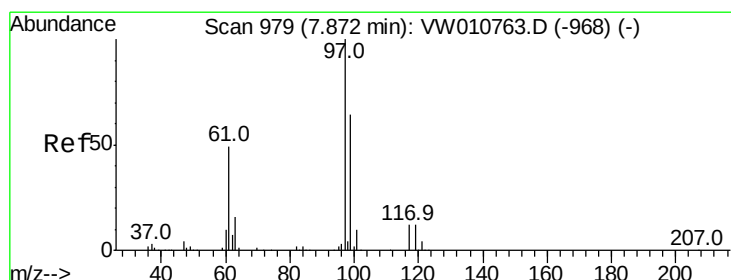
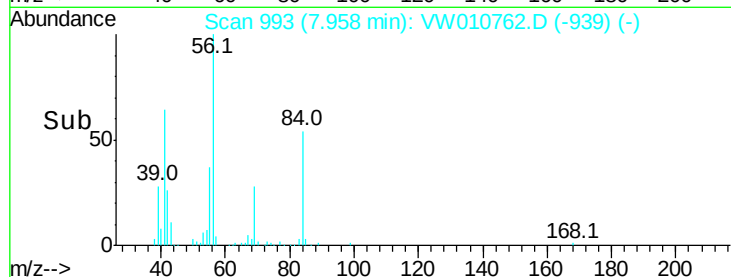
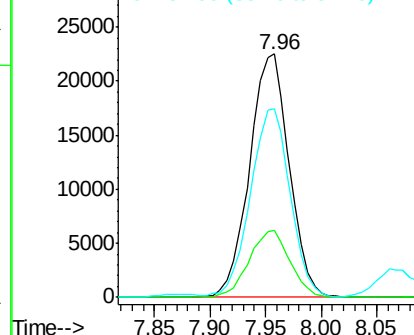
56 100

69 28.2 22.6 33.8

84 77.9 61.1 91.7



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 5.781 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

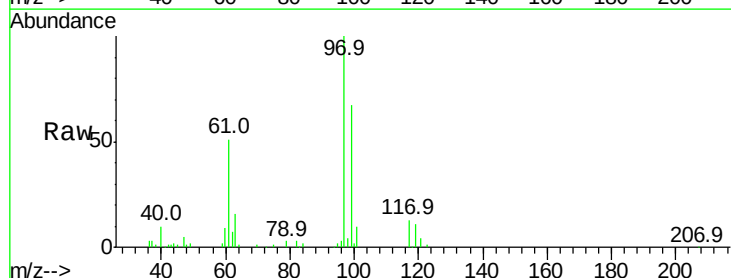
Tgt Ion: 97 Resp: 42131

Ion Ratio Lower Upper

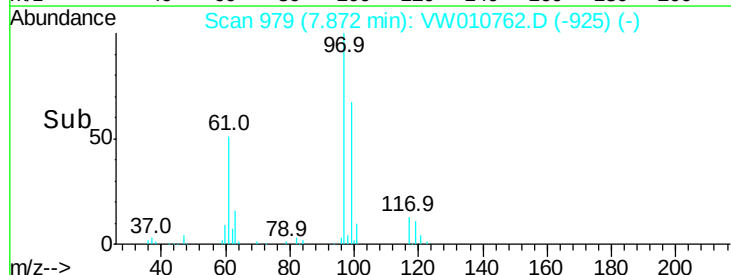
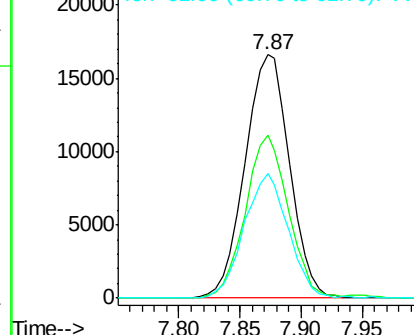
97 100

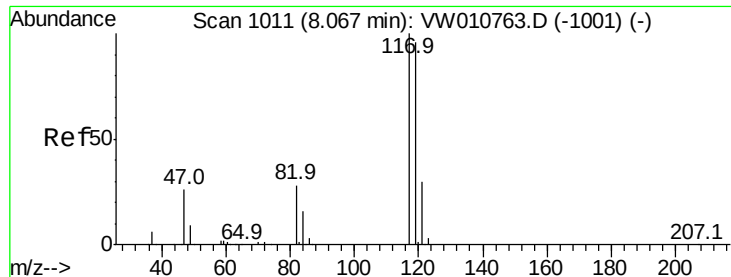
99 64.5 51.0 76.4

61 50.6 40.4 60.6



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: 4.836 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

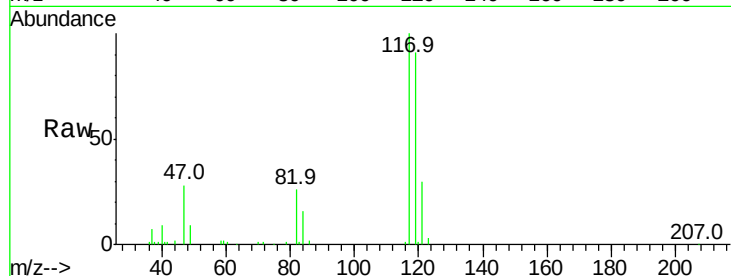
VSTD00514

Tgt Ion:117 Resp: 36295

Ion Ratio Lower Upper

117 100

119 95.6 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

8.07

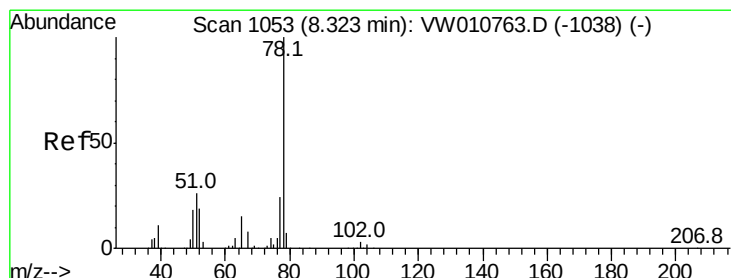
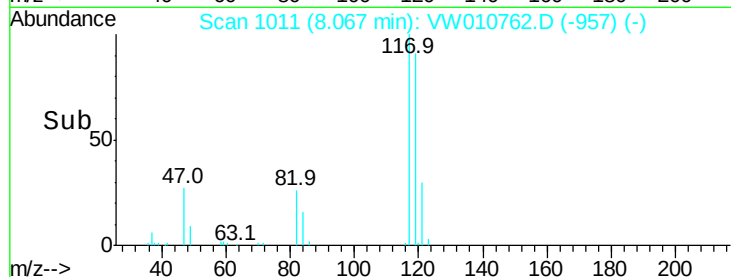
15000

10000

5000

0

Time--> 8.00 8.05 8.10 8.15



#34

Benzene

Concen: 5.333 ug/L

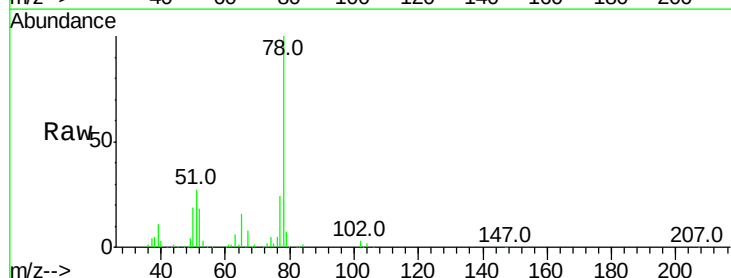
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Tgt Ion: 78 Resp: 114103



Abundance Ion 78.00 (77.70 to 78.70): VW

60000

50000

40000

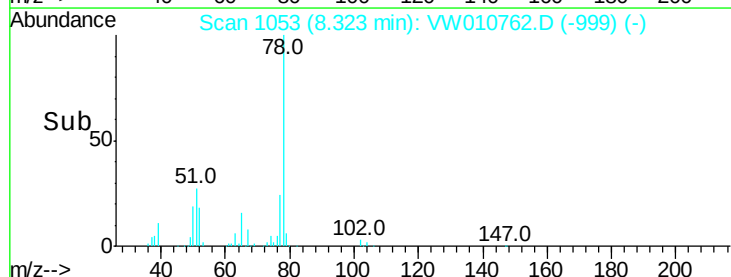
30000

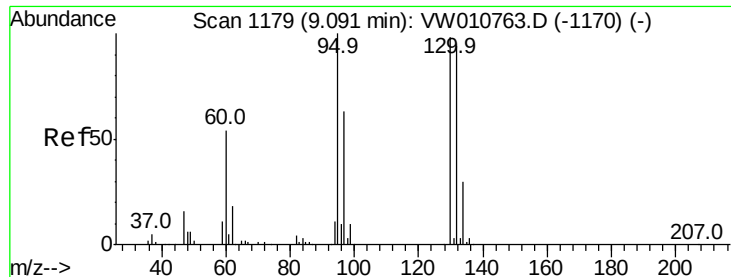
20000

10000

0

Time--> 8.20 8.30 8.40





#35

Trichloroethene

Concen: 5.292 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampled :

VSTD00514

Tgt Ion: 95 Resp: 29249

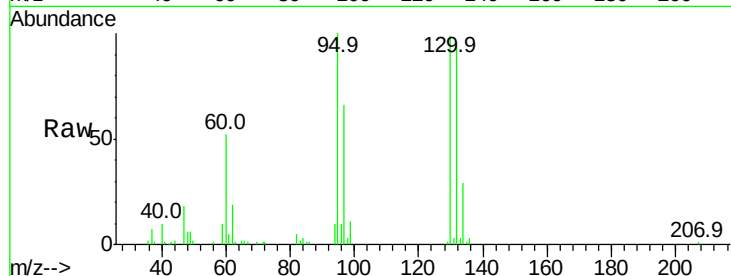
Ion Ratio Lower Upper

95 100

97 63.0 45.4 84.2

132 90.9 65.0 120.6

130 94.7 68.3 126.9

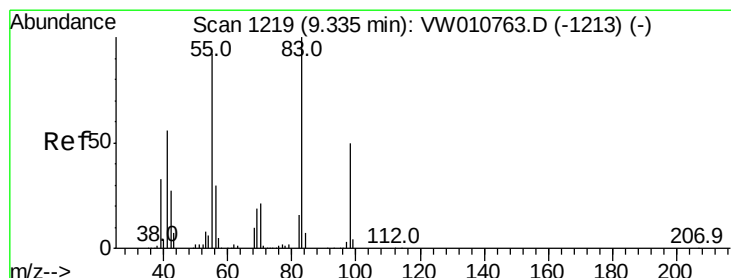
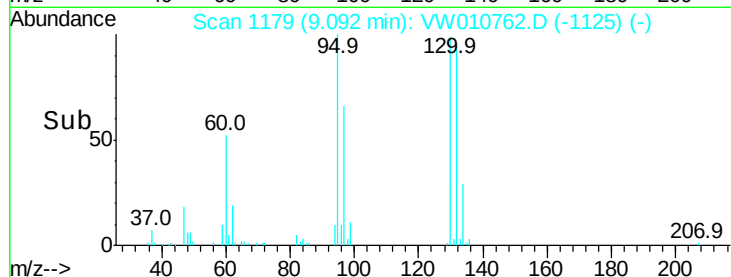
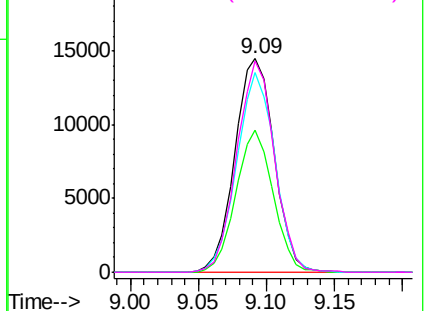


Abundance Ion 95.00 (94.70 to 95.70): VW

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: 5.696 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

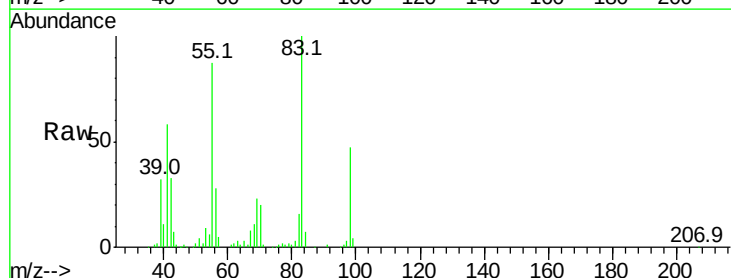
Tgt Ion: 83 Resp: 52838

Ion Ratio Lower Upper

83 100

55 89.2 71.6 107.4

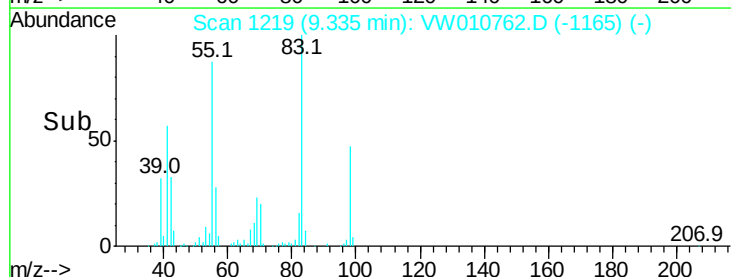
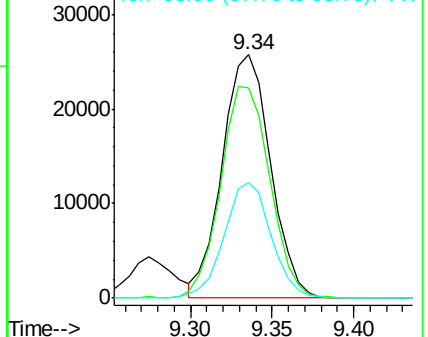
98 46.5 38.2 57.2

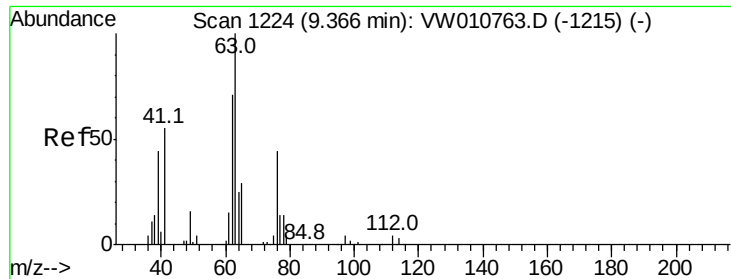


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

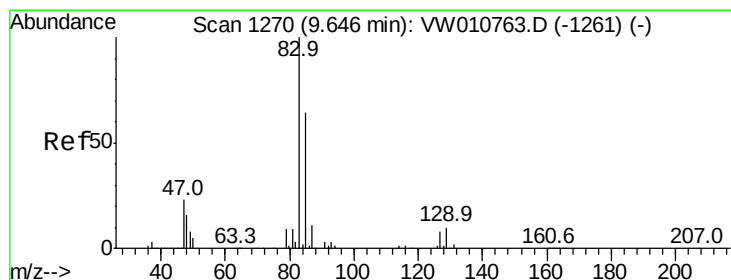
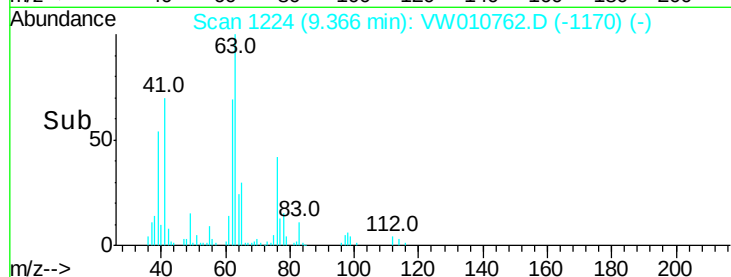
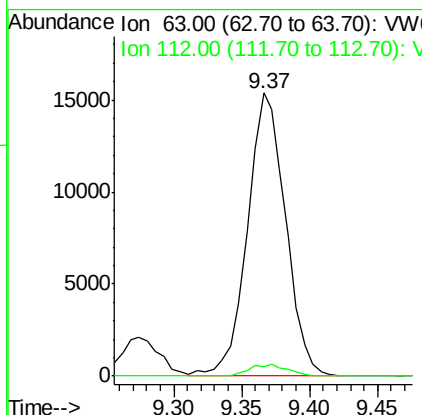
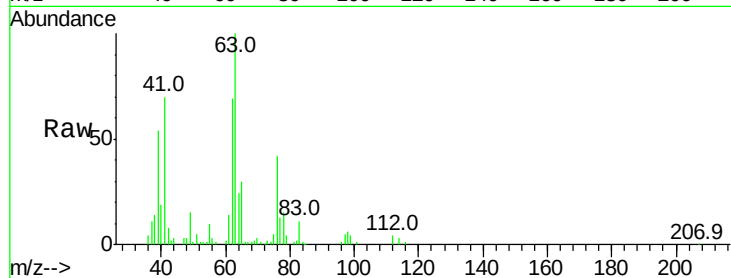




#40
 1,2-Dichloropropane
 Concen: 5.445 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

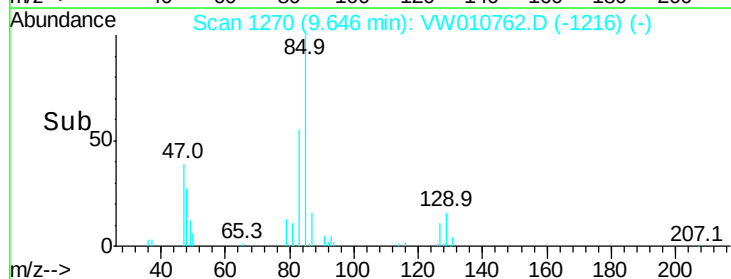
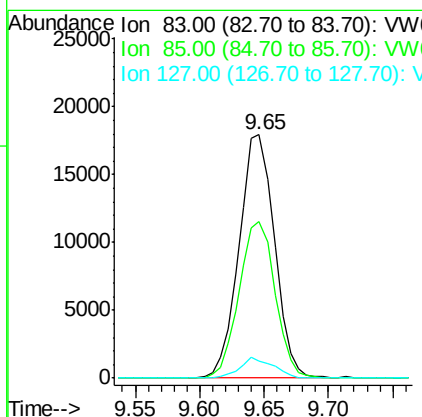
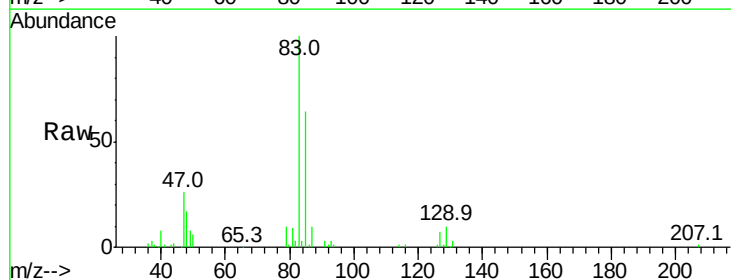
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00514

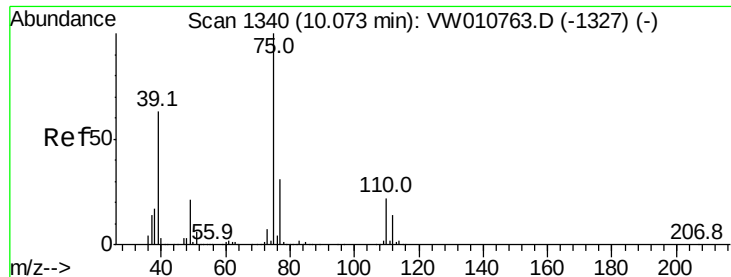
Tgt Ion: 63 Resp: 30240
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.1 4.7



#41
 Bromodichloromethane
 Concen: 4.755 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

Tgt Ion: 83 Resp: 34198
 Ion Ratio Lower Upper
 83 100
 85 64.1 44.7 82.9
 127 6.8 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 5.438 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

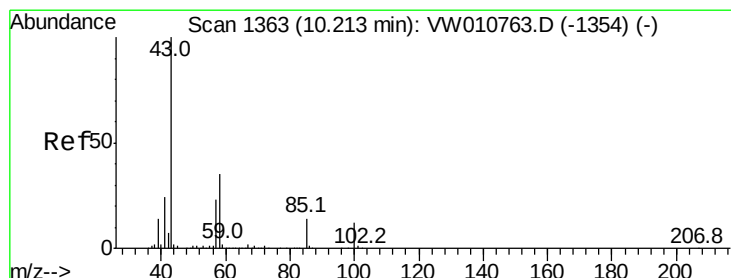
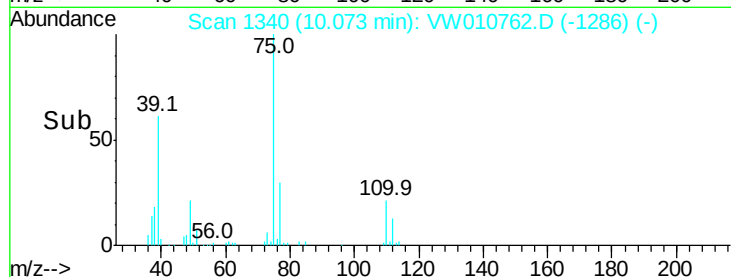
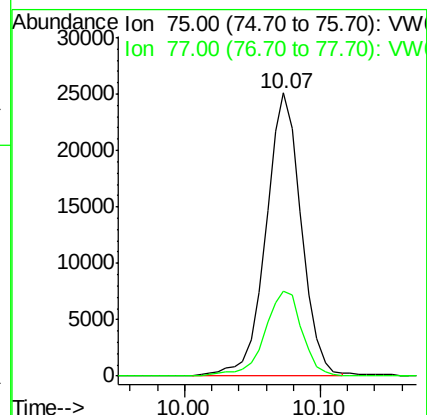
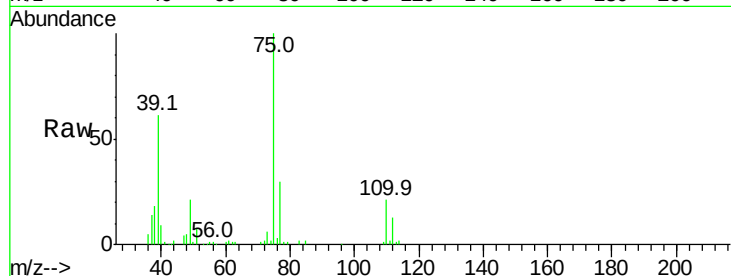
VSTD00514

Tgt Ion: 75 Resp: 45496

Ion Ratio Lower Upper

75 100

77 30.0 22.0 41.0



#43

4-Methyl-2-pentanone

Concen: 13.135 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

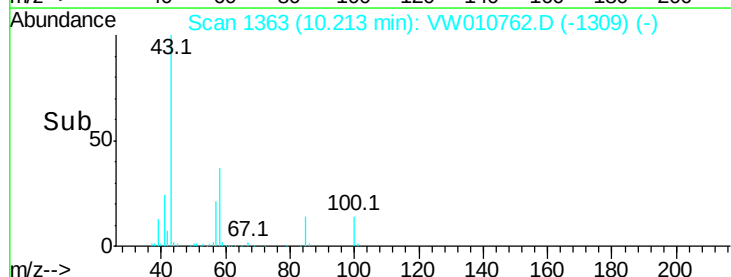
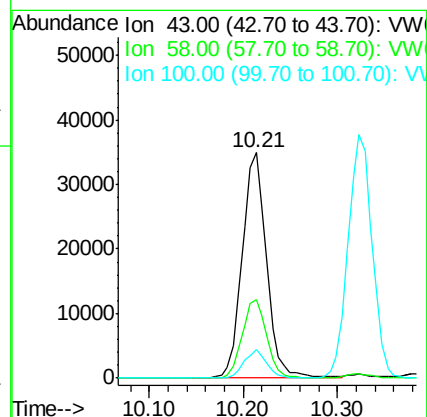
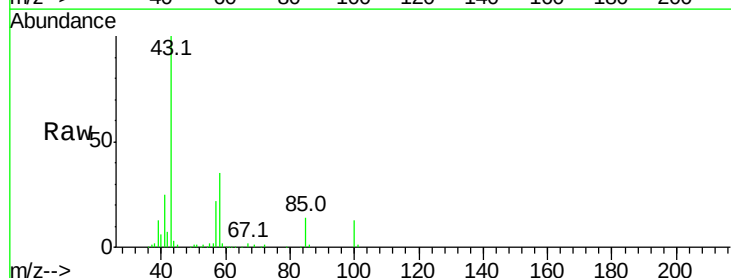
Tgt Ion: 43 Resp: 62233

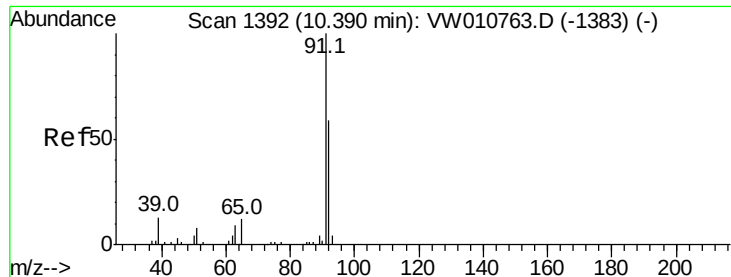
Ion Ratio Lower Upper

43 100

58 35.1 28.0 42.0

100 11.9 9.8 14.6





#44

Toluene

Concen: 5.257 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

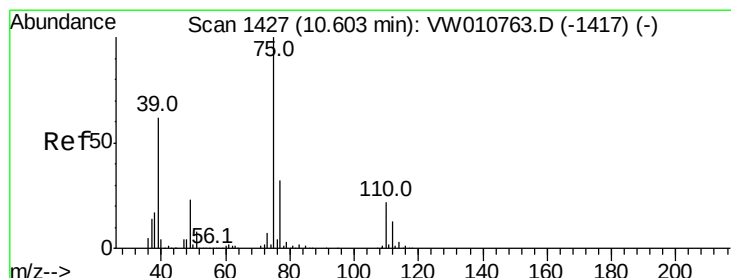
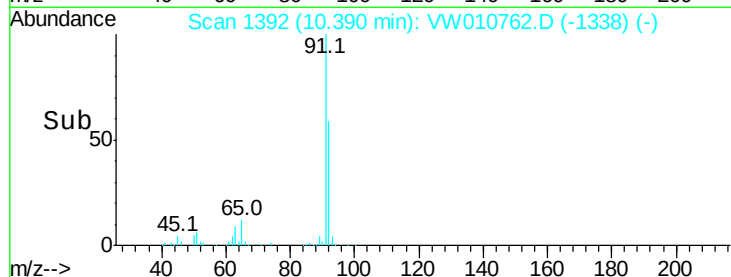
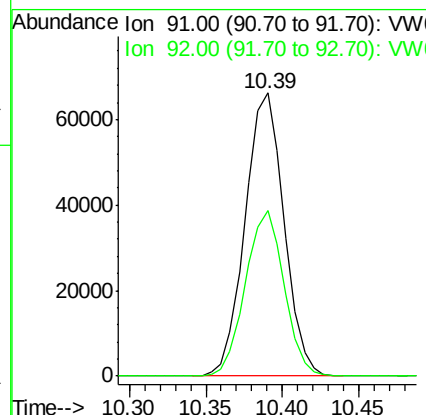
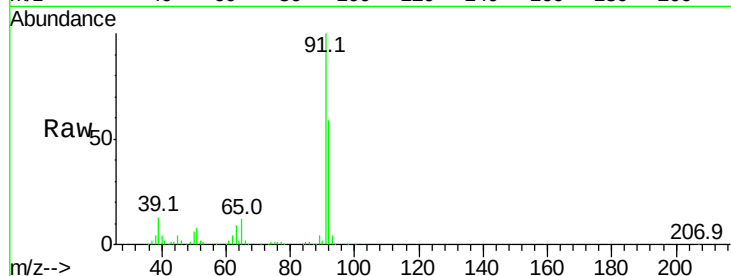
VSTD00514

Tgt Ion: 91 Resp: 117092

Ion Ratio Lower Upper

91 100

92 58.5 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 5.222 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010762.D

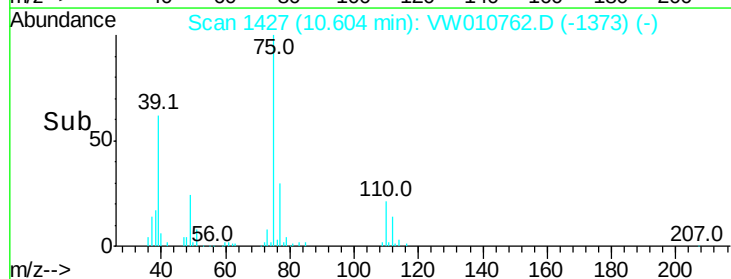
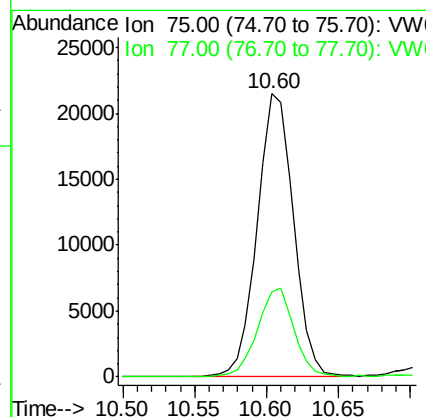
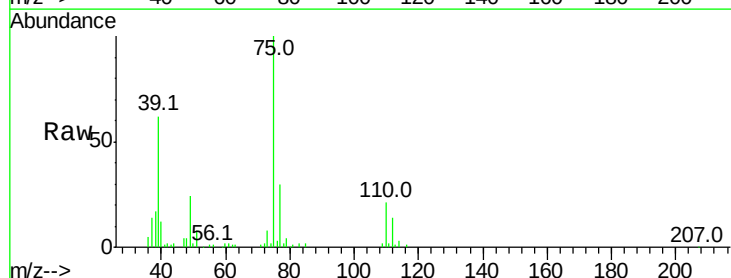
Acq: 11 Jun 2019 10:50

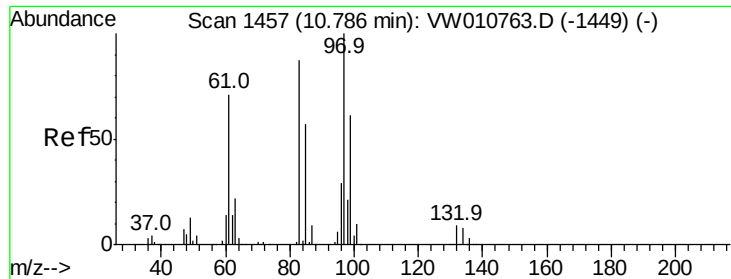
Tgt Ion: 75 Resp: 37587

Ion Ratio Lower Upper

75 100

77 30.1 22.5 41.7

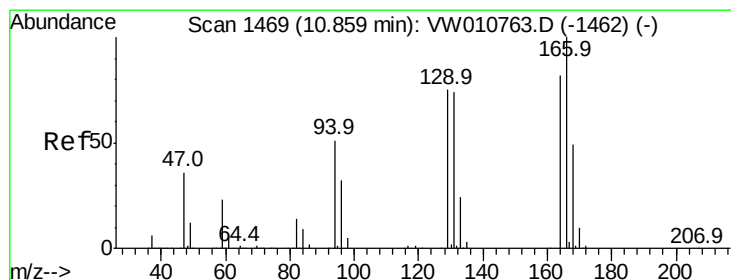
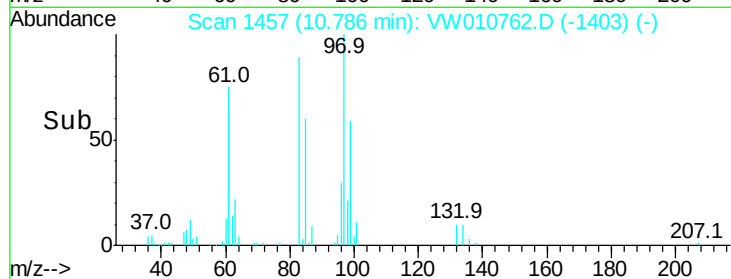
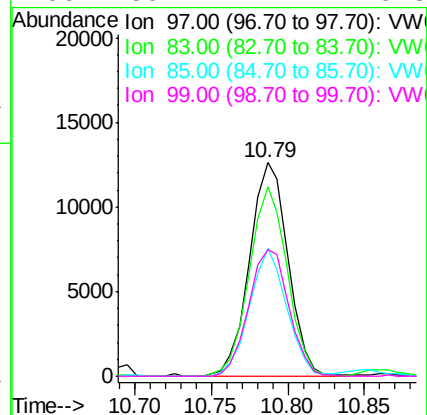
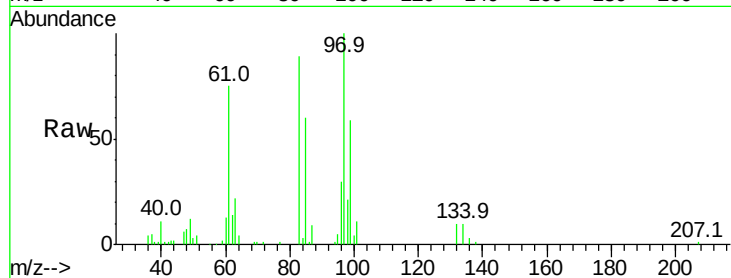




#46
 1,1,2-Trichloroethane
 Concen: 5.226 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

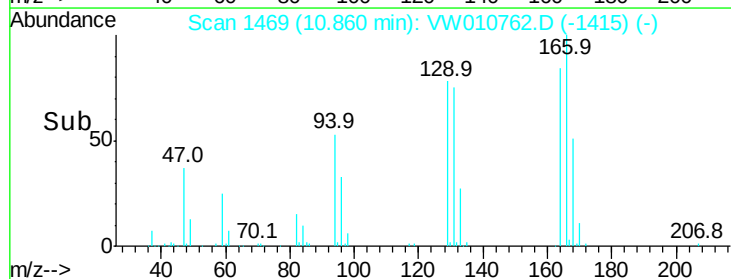
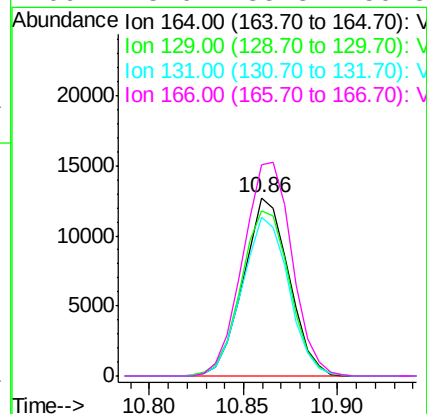
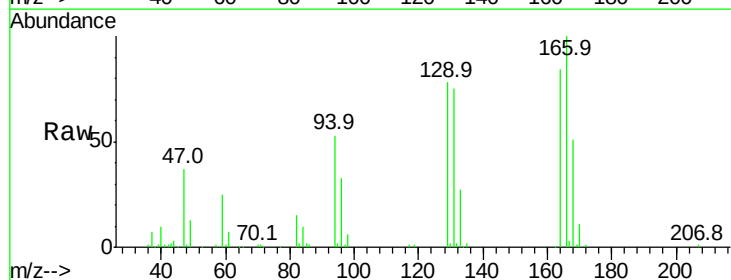
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00514

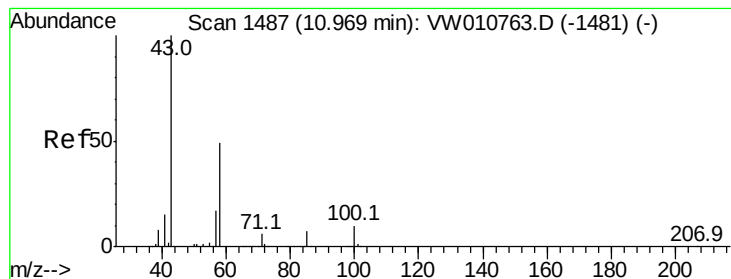
Tgt Ion: 97 Resp: 22101
 Ion Ratio Lower Upper
 97 100
 83 88.7 60.8 113.0
 85 60.0 39.8 73.8
 99 59.1 42.7 79.3



#47
 Tetrachloroethene
 Concen: 5.020 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

Tgt Ion: 164 Resp: 21363
 Ion Ratio Lower Upper
 164 100
 129 92.4 64.5 119.7
 131 89.2 63.6 118.0
 166 118.6 85.8 159.3





#49

2-Hexanone

Concen: 12.921 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD00514

Tgt Ion: 43 Resp: 45168

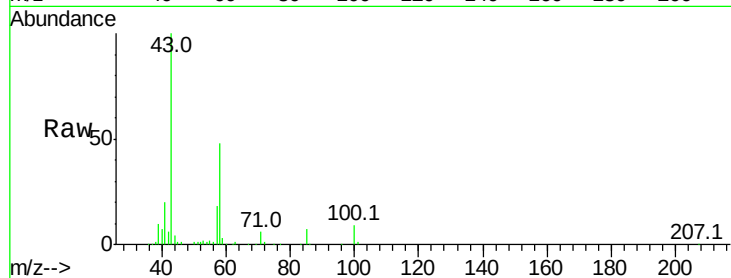
Ion Ratio Lower Upper

43 100

58 47.4 39.5 59.3

57 17.5 13.8 20.8

100 9.2 7.6 11.4



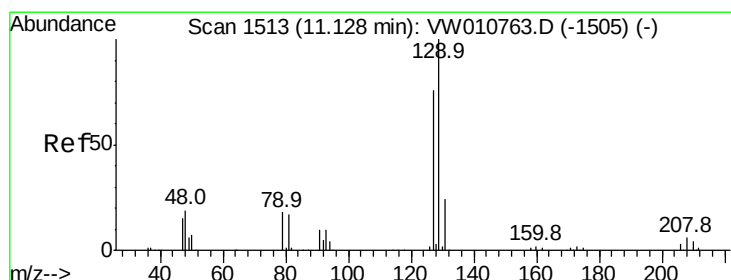
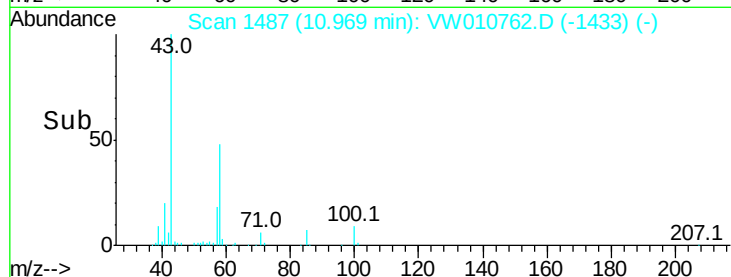
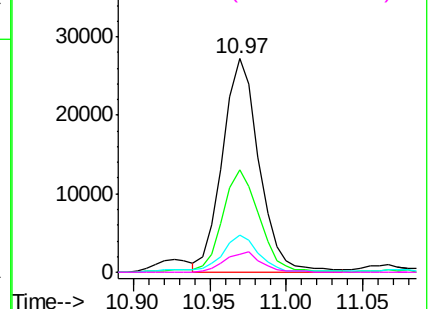
Abundance

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: 4.717 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW010762.D

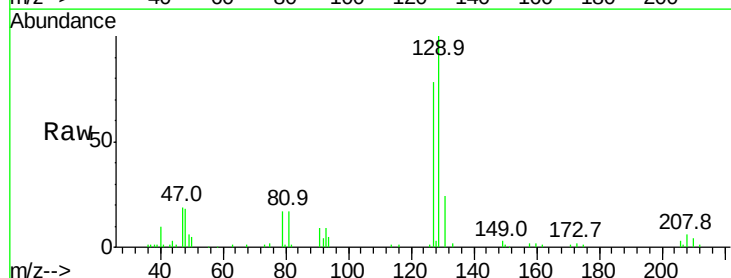
Acq: 11 Jun 2019 10:50

Tgt Ion: 129 Resp: 22913

Ion Ratio Lower Upper

129 100

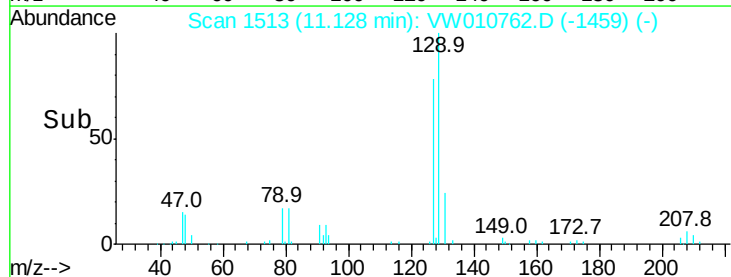
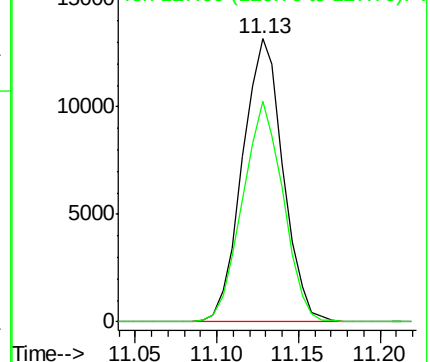
127 77.8 53.1 98.7

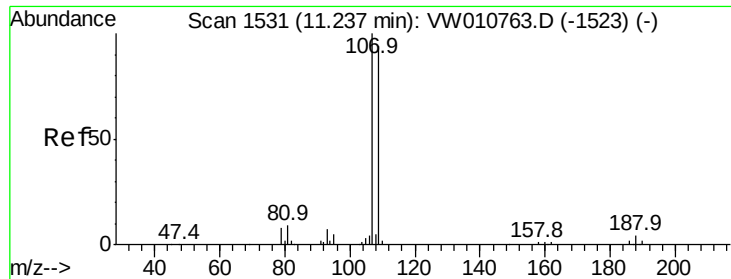


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

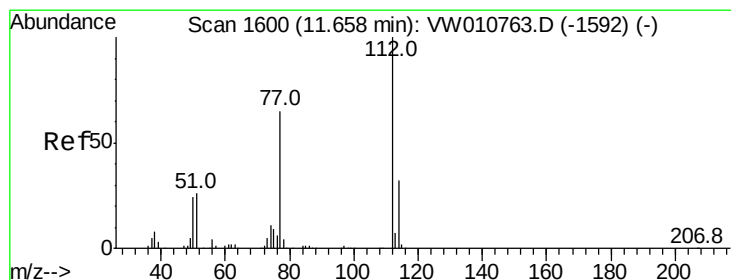
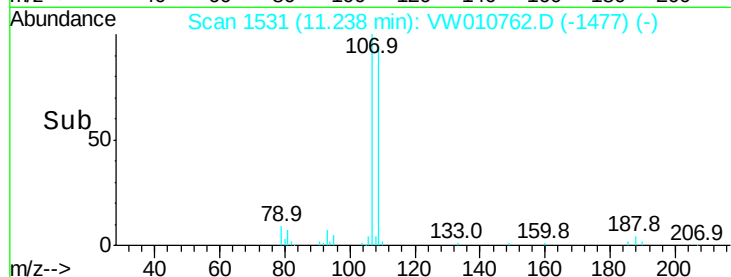
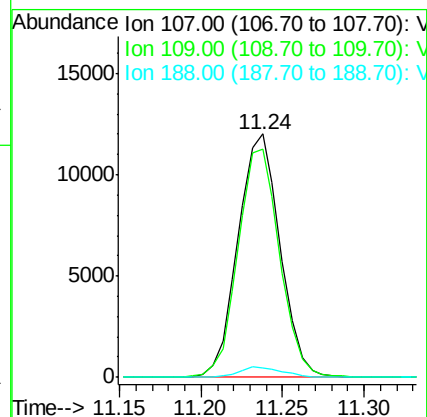
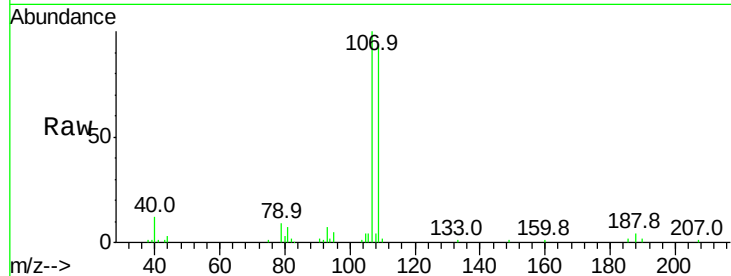




#51
1,2-Dibromoethane
Concen: 5.213 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.00 min
Lab File: VW010762.D
Acq: 11 Jun 2019 10:50

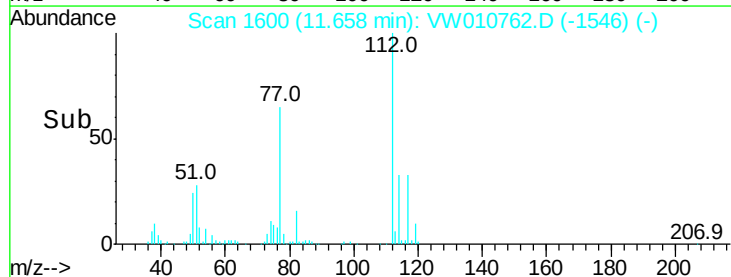
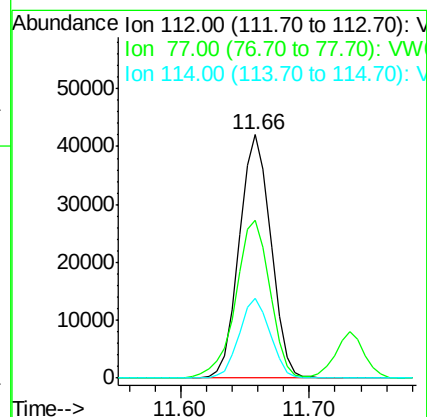
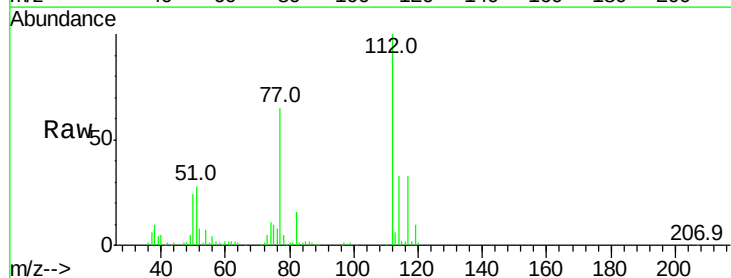
Instrument :
MSVOA_W
ClientSampleId :
VSTD00514

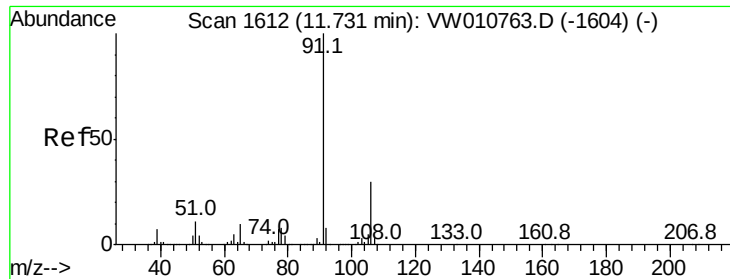
Tgt Ion:107 Resp: 21521
Ion Ratio Lower Upper
107 100
109 94.0 66.0 122.6
188 4.1 3.1 4.7



#52
Chlorobenzene
Concen: 5.021 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW010762.D
Acq: 11 Jun 2019 10:50

Tgt Ion:112 Resp: 71629
Ion Ratio Lower Upper
112 100
77 64.6 51.8 77.8
114 32.9 22.1 41.1





#53

Ethylbenzene

Concen: 5.321 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

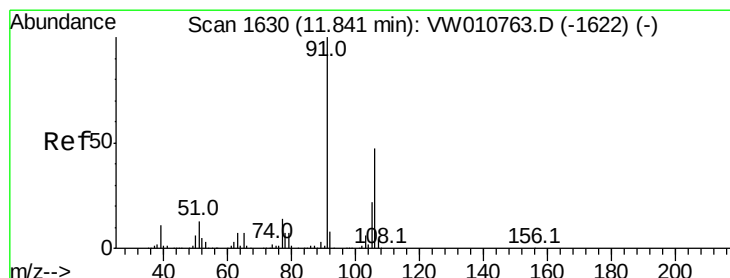
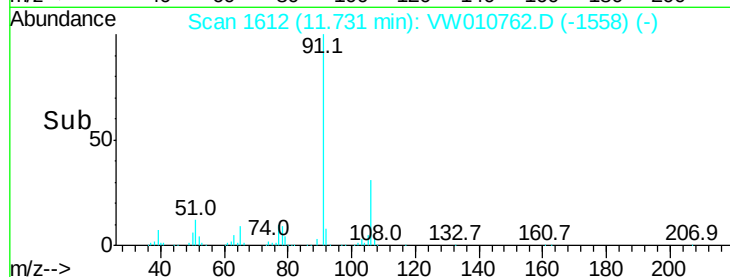
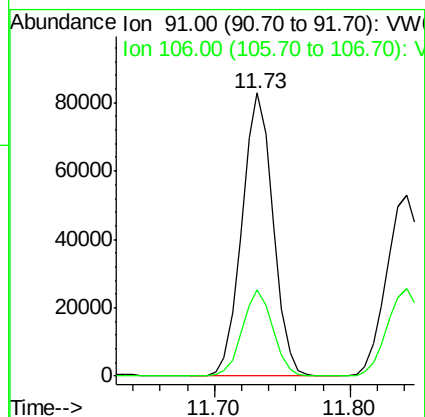
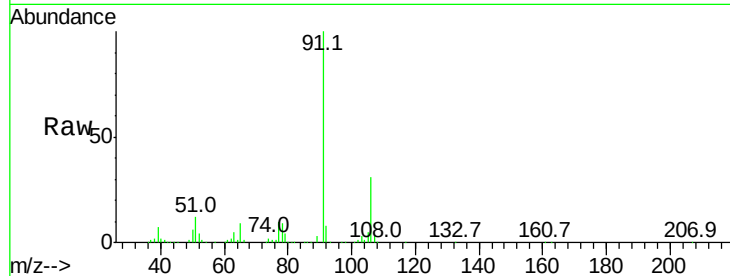
VSTD00514

Tgt Ion: 91 Resp: 132306

Ion Ratio Lower Upper

91 100

106 30.6 21.1 39.3



#54

m,p-Xylene

Concen: 5.170 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW010762.D

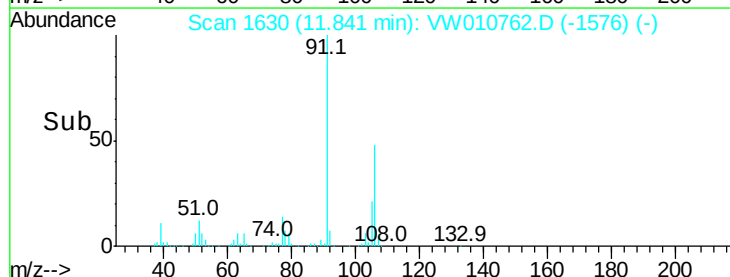
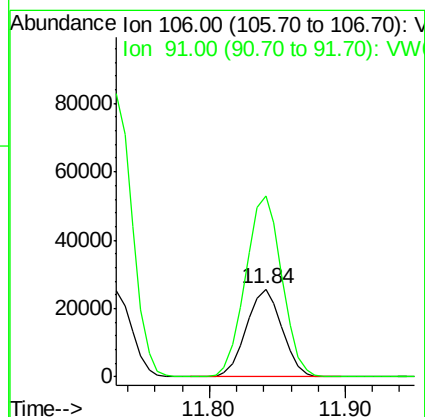
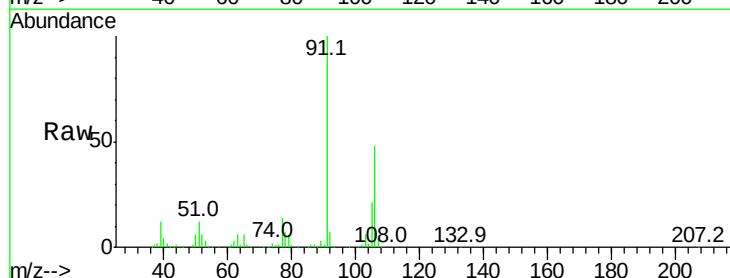
Acq: 11 Jun 2019 10:50

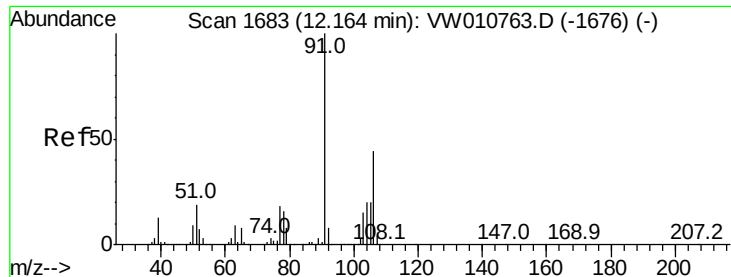
Tgt Ion: 106 Resp: 47364

Ion Ratio Lower Upper

106 100

91 206.3 148.7 276.1





#55

o-xylene

Concen: 5.248 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

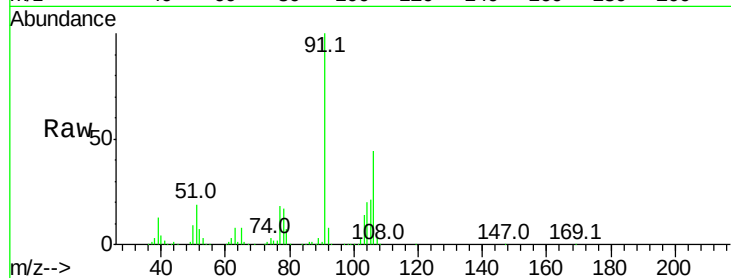
VSTD00514

Tgt Ion:106 Resp: 45354

Ion Ratio Lower Upper

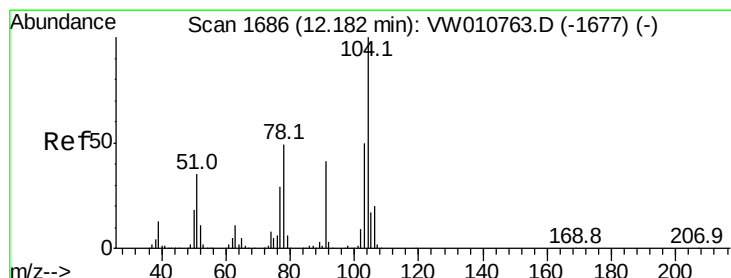
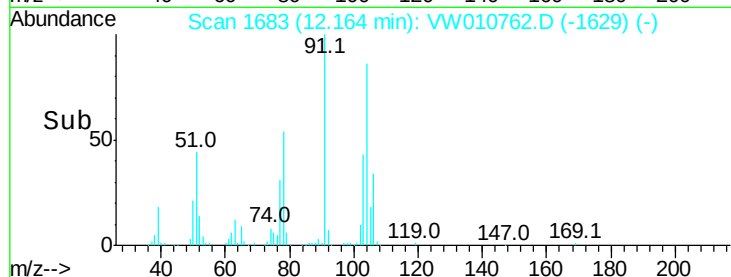
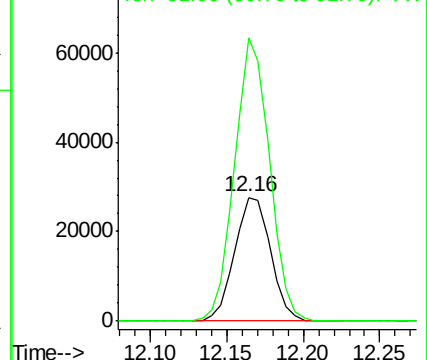
106 100

91 228.5 157.8 293.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 5.098 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW010762.D

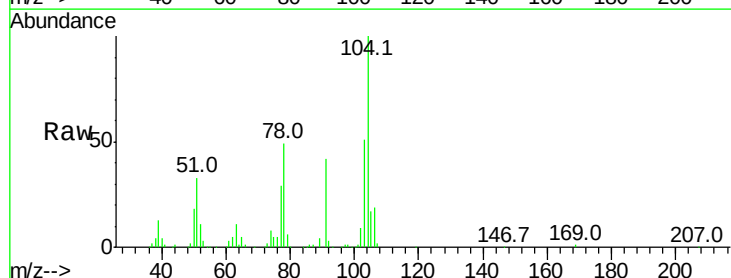
Acq: 11 Jun 2019 10:50

Tgt Ion:104 Resp: 76834

Ion Ratio Lower Upper

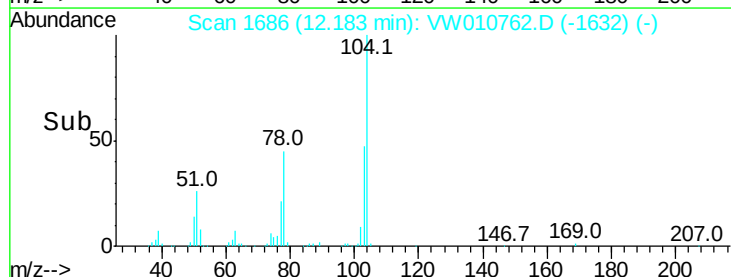
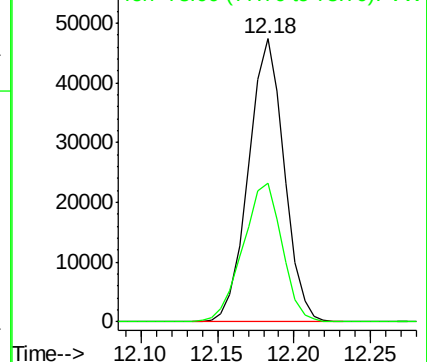
104 100

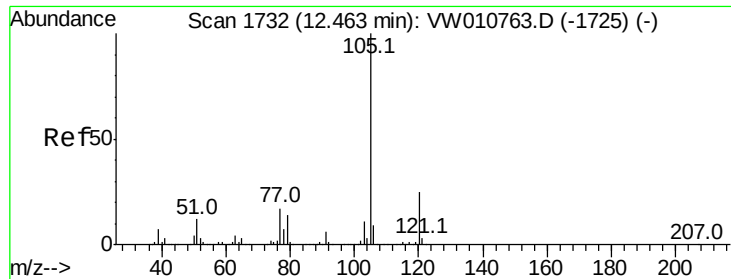
78 49.2 34.2 63.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 5.317 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampled :

VSTD00514

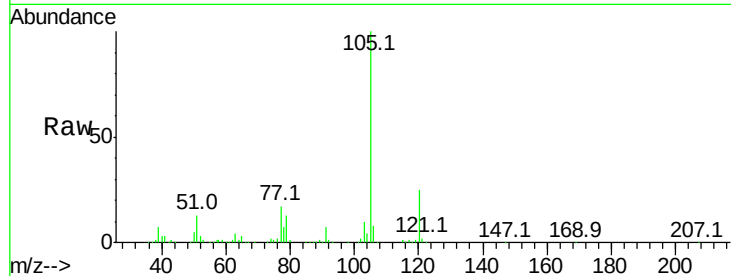
Tgt Ion:105 Resp: 124518

Ion Ratio Lower Upper

105 100

120 25.8 20.5 30.7

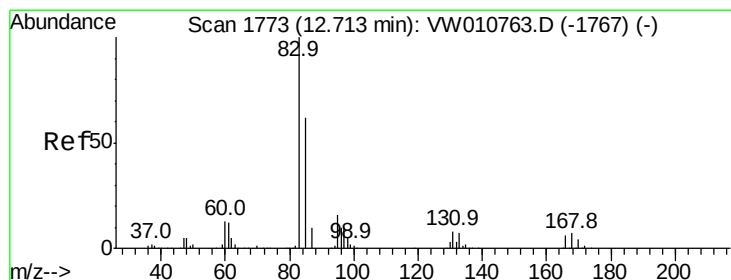
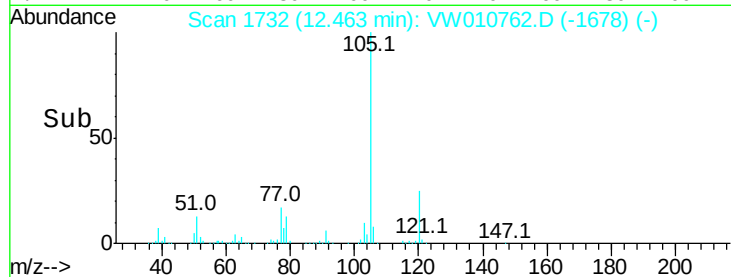
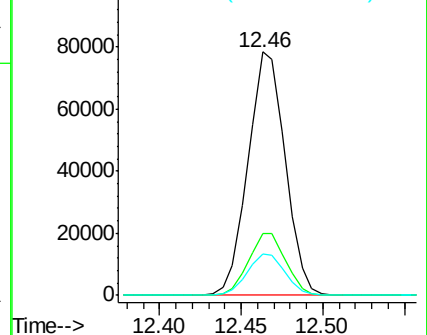
77 17.3 13.6 20.4



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: 5.237 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

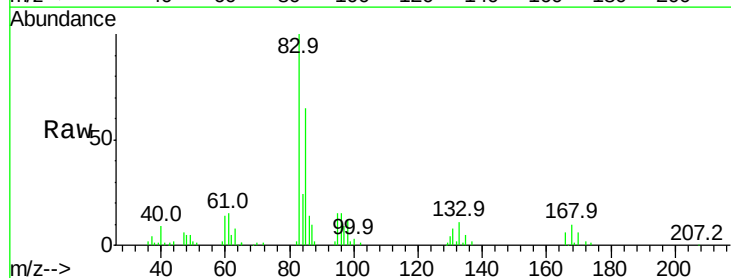
Tgt Ion: 83 Resp: 29707

Ion Ratio Lower Upper

83 100

85 64.7 44.0 81.6

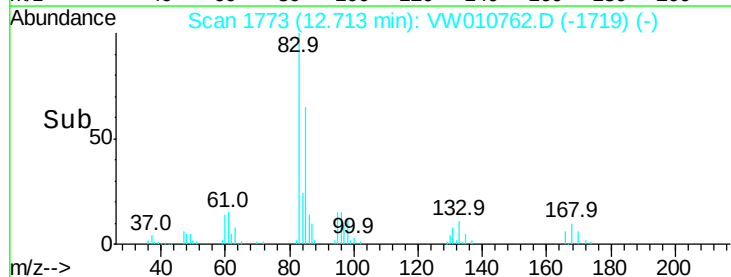
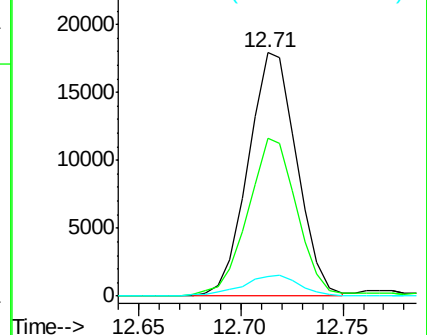
131 8.1 7.0 10.6

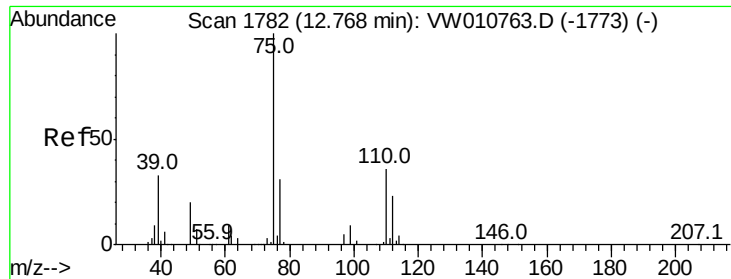


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

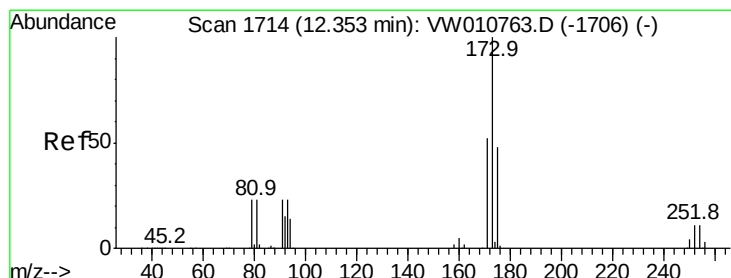
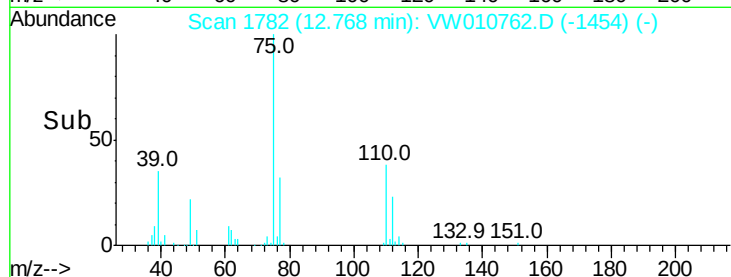
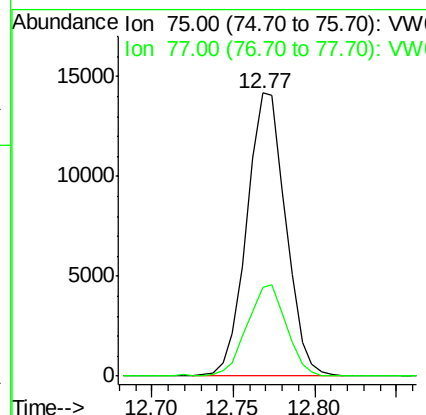
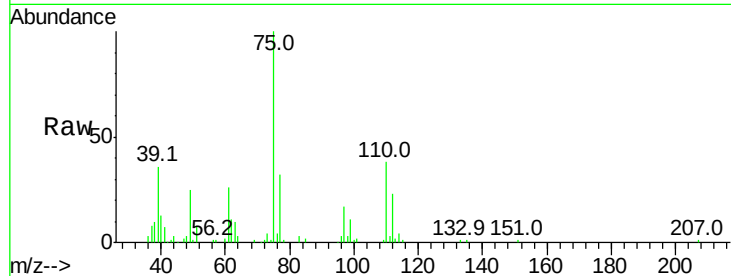




#59
 1,2,3-Trichloropropane
 Concen: 5.481 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

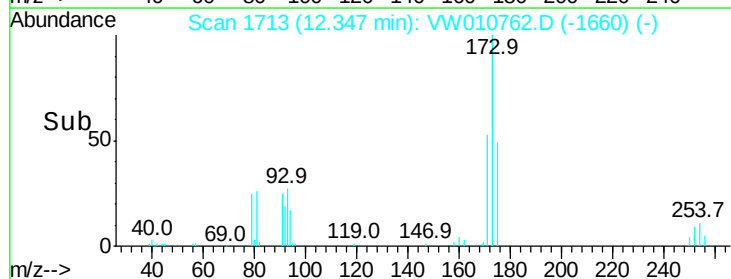
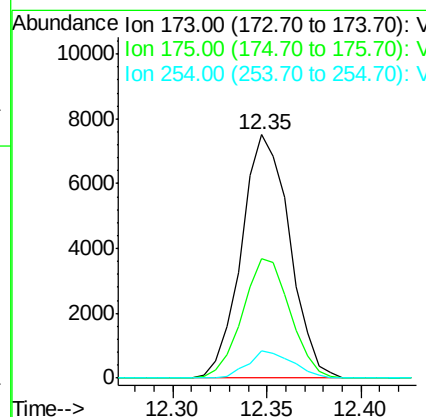
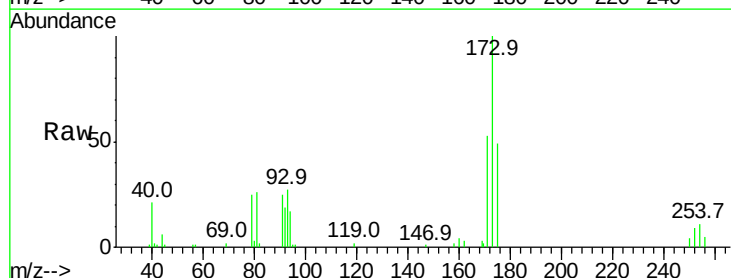
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00514

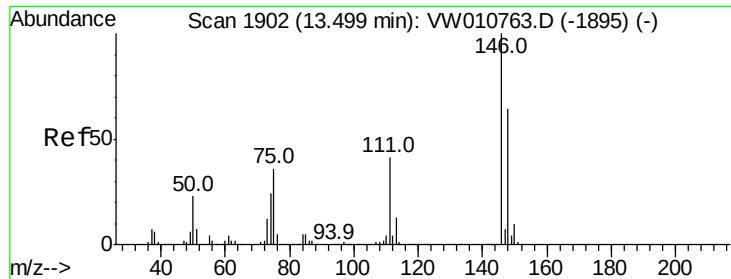
Tgt Ion: 75 Resp: 23675
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.6 38.4



#62
 Bromoform
 Concen: 4.884 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. -0.01 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

Tgt Ion: 173 Resp: 13302
 Ion Ratio Lower Upper
 173 100
 175 48.9 38.7 58.1
 254 10.3 8.6 13.0

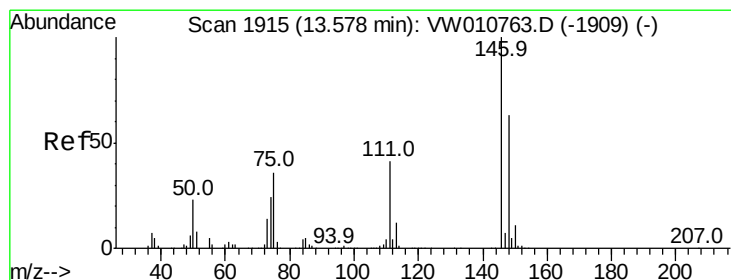
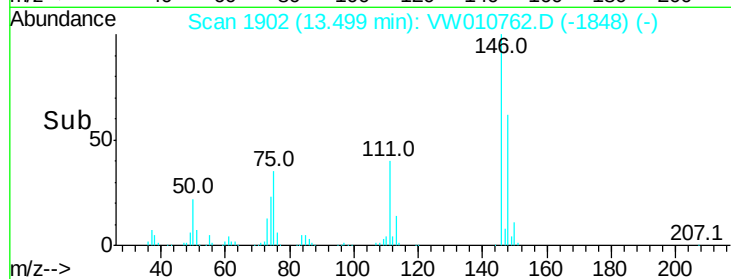
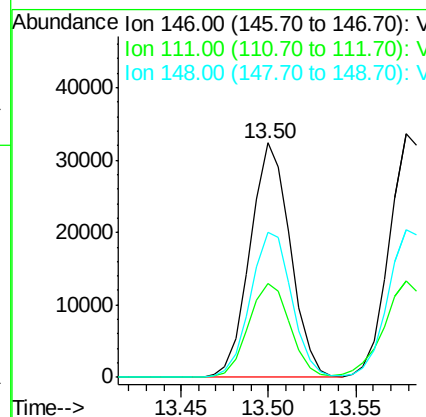
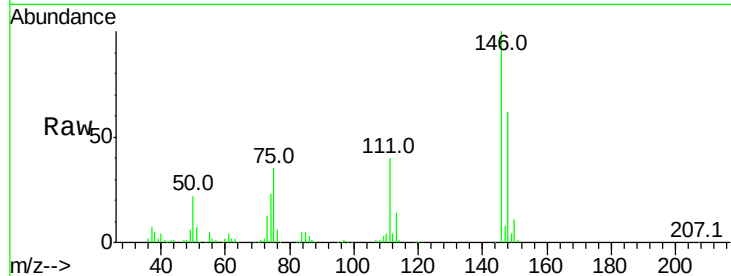




#63
 1,3-Dichlorobenzene
 Concen: 5.286 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

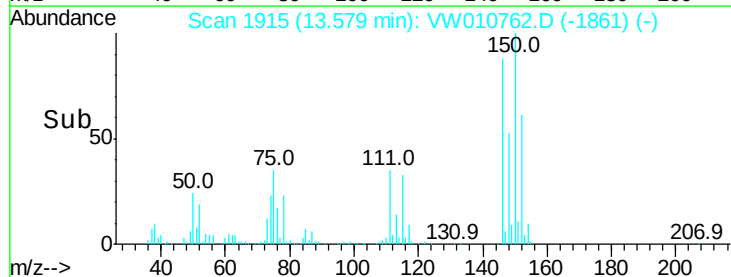
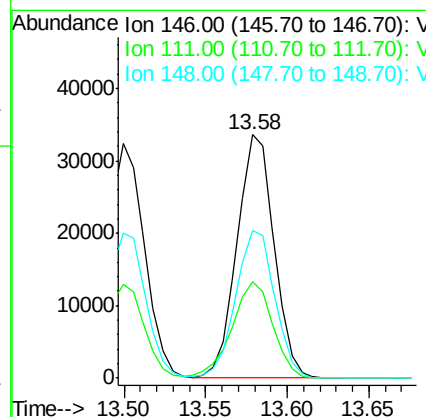
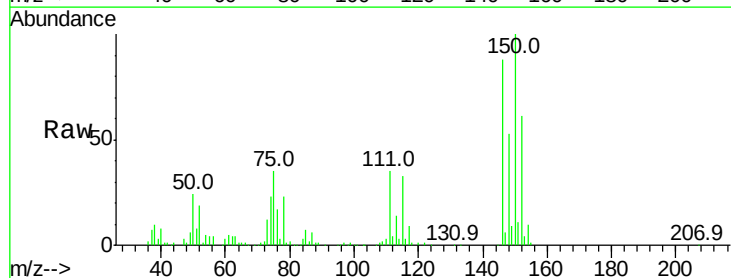
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00514

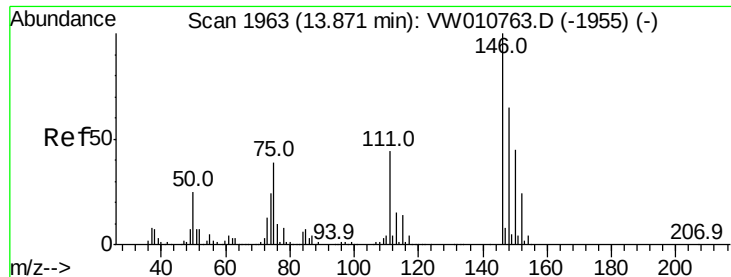
Tgt Ion:146 Resp: 52122
 Ion Ratio Lower Upper
 146 100
 111 40.0 28.6 53.2
 148 61.9 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 5.074 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

Tgt Ion:146 Resp: 53444
 Ion Ratio Lower Upper
 146 100
 111 39.6 29.0 53.9
 148 60.7 44.4 82.4

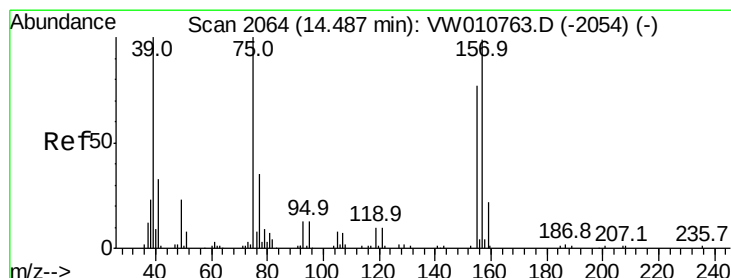
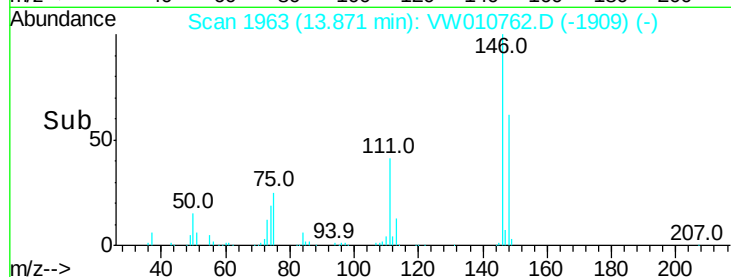
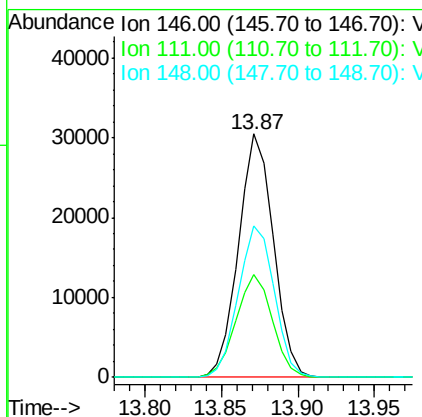
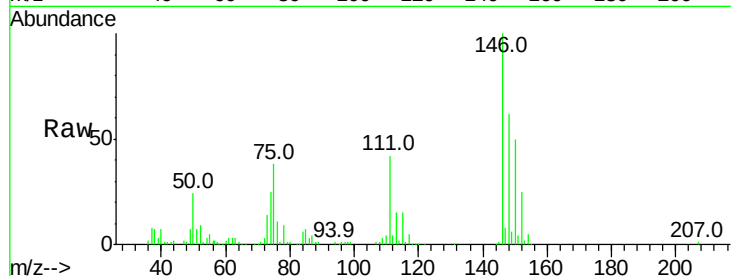




#65
 1,2-Dichlorobenzene
 Concen: 5.090 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

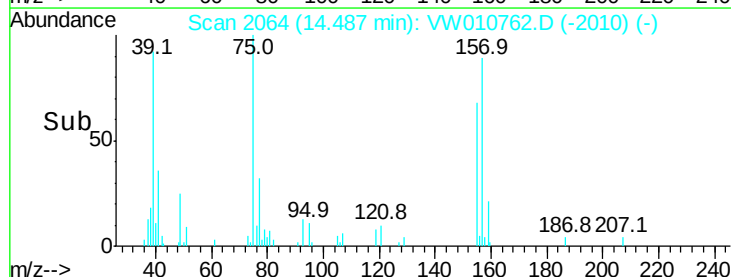
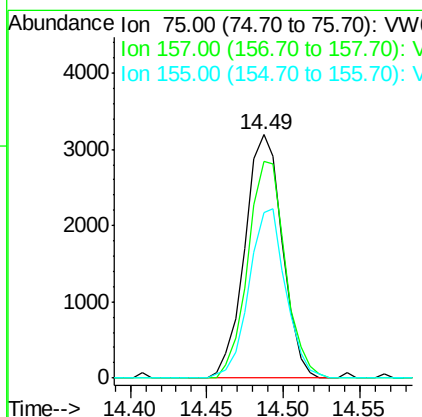
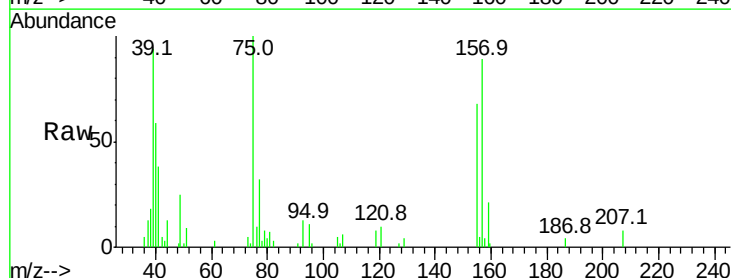
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD00514

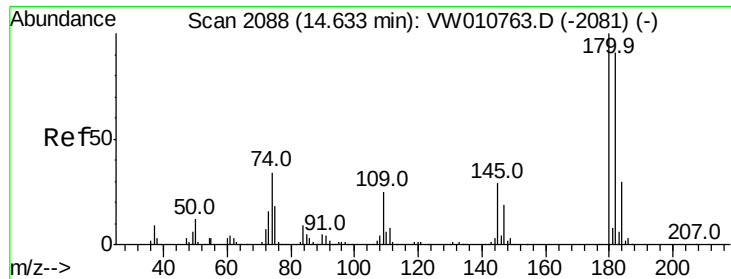
Tgt Ion:146 Resp: 48467
 Ion Ratio Lower Upper
 146 100
 111 42.4 35.3 52.9
 148 62.3 51.9 77.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.468 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

Tgt Ion: 75 Resp: 5436
 Ion Ratio Lower Upper
 75 100
 157 88.8 79.1 118.7
 155 68.1 62.0 93.0

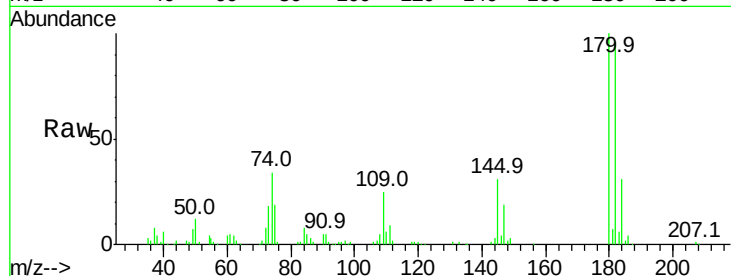




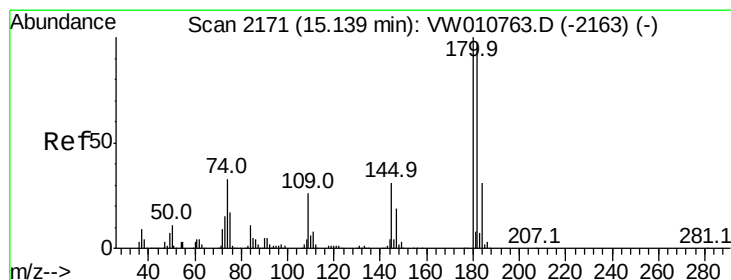
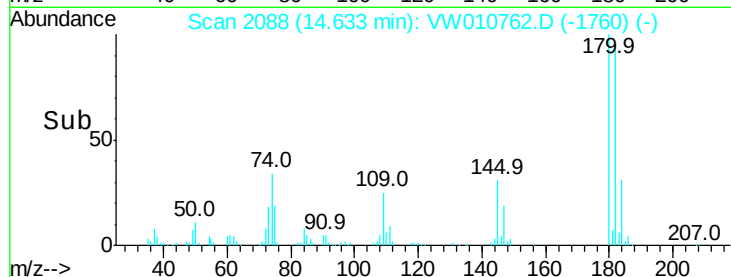
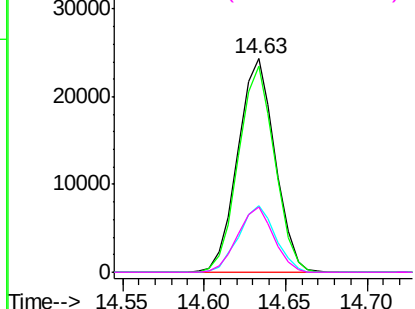
#67
 1,3,5-Trichlorobenzene
 Concen: 5.187 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

Instrument :
 MSVOA_W
 ClientSampled :
 VSTD00514

Tgt Ion:180 Resp: 38651
 Ion Ratio Lower Upper
 180 100
 182 93.8 76.5 114.7
 184 30.7 24.6 37.0
 145 29.8 24.1 36.1

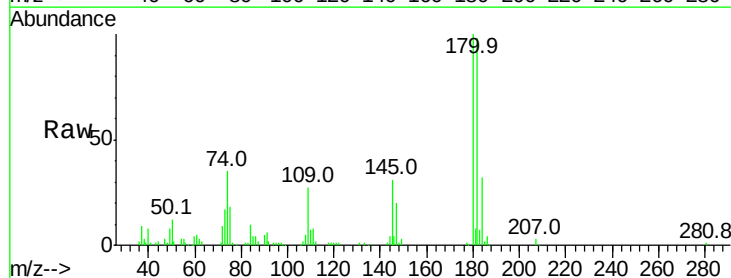


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

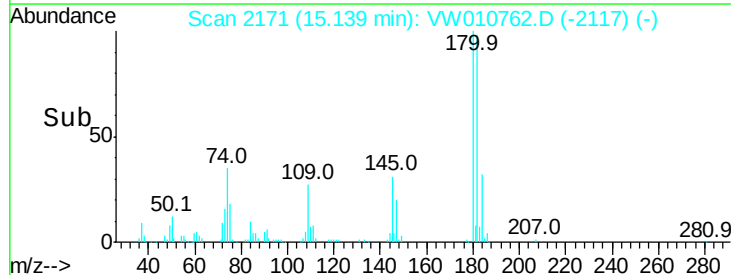
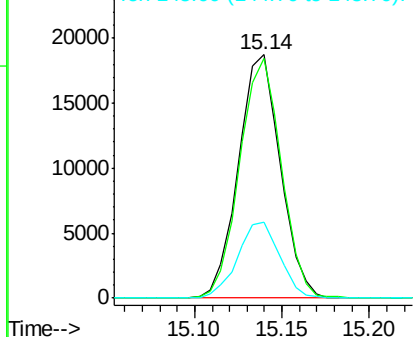


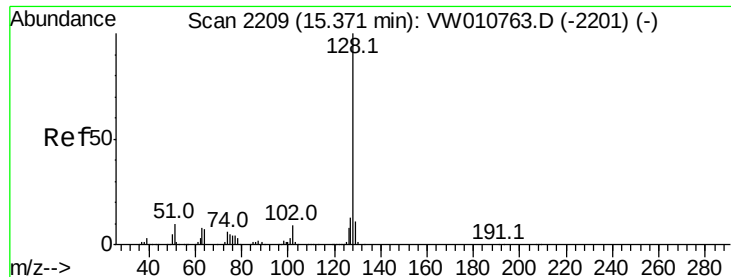
#68
 1,2,4-trichlorobenzene
 Concen: 5.201 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW010762.D
 Acq: 11 Jun 2019 10:50

Tgt Ion:180 Resp: 31370
 Ion Ratio Lower Upper
 180 100
 182 97.3 76.4 114.6
 145 31.0 24.8 37.2



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





#69

Naphthalene

Concen: 5.027 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

Instrument :

MSVOA_W

ClientSampleId :

VSTD00514

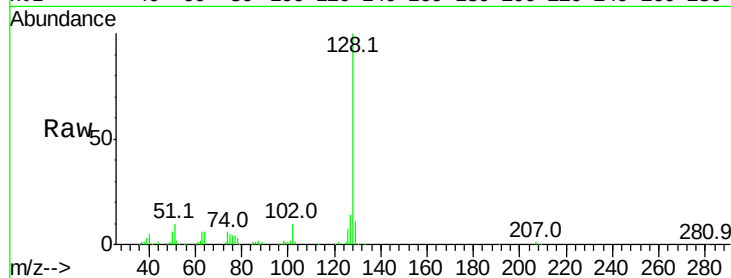
Tgt Ion:128 Resp: 67151

Ion Ratio Lower Upper

128 100

129 11.4 8.6 13.0

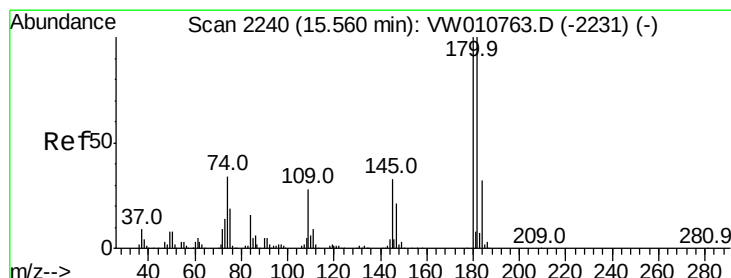
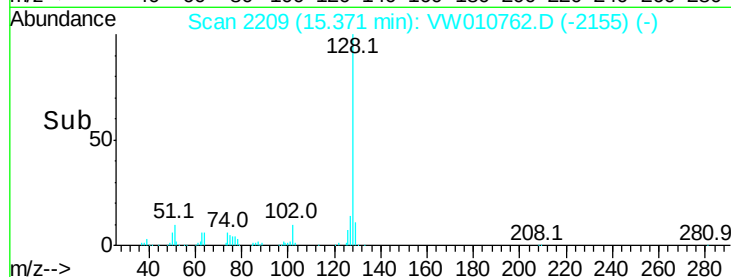
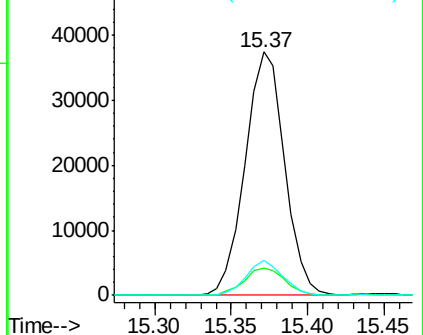
127 13.5 10.4 15.6



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: 4.943 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW010762.D

Acq: 11 Jun 2019 10:50

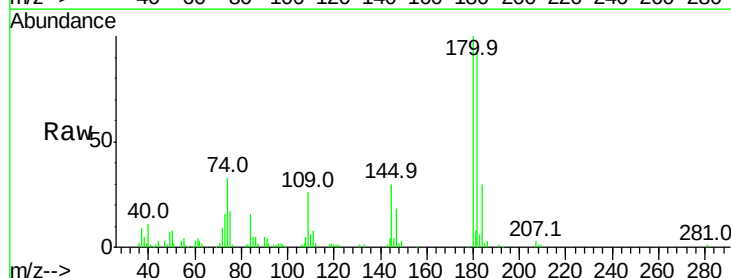
Tgt Ion:180 Resp: 28534

Ion Ratio Lower Upper

180 100

182 97.2 76.6 115.0

145 32.4 25.8 38.8



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

