

Data File : VW009168.D
Acq On : 14 Mar 2019 14:15
Operator : SY/VA
Sample : VSTD2.561
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

Quant Time: Mar 14 15:40:35 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 14 15:38:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	478065	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	453865	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	228079	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	12604	1.69	ug/L	0.00
7) Chloroethane-d5	2.89	69	19082	2.86	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.02	63	31800	2.57	ug/L	0.00
20) 2-Butanone-d5	7.07	46	13532	6.10	ug/L	0.00
24) Chloroform-d	7.64	84	37072	3.21	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	22394	3.28	ug/L	0.00
29) Benzene-d6	8.27	84	70707	3.25	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	21025	3.29	ug/L	0.00
37) Toluene-d8	10.32	98	61943	2.84	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	9611	3.00	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	9425	5.42	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	20964	3.27	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.86	152	24145	2.97	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	15074	1.641 ug/L	98
3) Chloromethane	2.21	50	15304	1.612 ug/L	86
5) Vinyl chloride	2.37	62	10726	1.102 ug/L	90
6) Bromomethane	2.78	94	13143	2.037 ug/L	95
9) Trichlorofluoromethane	3.26	101	12000	1.031 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	7448	1.084 ug/L #	71
12) 1,1-Dichloroethene	4.03	96	7807	1.309 ug/L	83
13) Acetone	4.12	43	12417	5.902 ug/L	96
14) Carbon disulfide	4.37	76	29251	1.420 ug/L #	86
15) Methyl Acetate	4.67	43	10476	2.496 ug/L #	74
16) Methylene chloride	4.91	84	22048	2.852 ug/L	95
17) Methyl tert-butyl Ether	5.43	73	20447	1.219 ug/L #	90
18) trans-1,2-Dichloroethene	5.41	96	14962	2.279 ug/L	87
19) 1,1-Dichloroethane	6.21	63	27476	2.465 ug/L	95
21) 2-Butanone	7.17	43	6614	2.247 ug/L #	41
22) cis-1,2-Dichloroethene	7.17	96	15627	2.219 ug/L	98
23) Bromochloromethane	7.51	128	7937	2.463 ug/L #	90
25) Chloroform	7.67	83	28551	2.433 ug/L	99
27) 1,2-Dichloroethane	8.40	62	21824	2.557 ug/L	96
30) Cyclohexane	7.95	56	23057	2.158 ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	22103	2.109 ug/L	96
32) Carbon tetrachloride	8.06	117	21428	2.238 ug/L	98
34) Benzene	8.32	78	57753	2.346 ug/L	100
35) Trichloroethene	9.09	95	15511	2.334 ug/L	97
36) Methylcyclohexane	9.33	83	26470	2.245 ug/L	97
40) 1,2-Dichloropropane	9.37	63	15118	2.486 ug/L #	95
41) Bromodichloromethane	9.64	83	20195	2.442 ug/L #	98
42) cis-1,3-Dichloropropene	10.07	75	23461	2.378 ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	29977	5.457 ug/L	98
44) Toluene	10.38	91	62924	2.223 ug/L	100

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Quant Title : VOC Analysis
QLast Update : Thu Mar 14 15:38:00 2019
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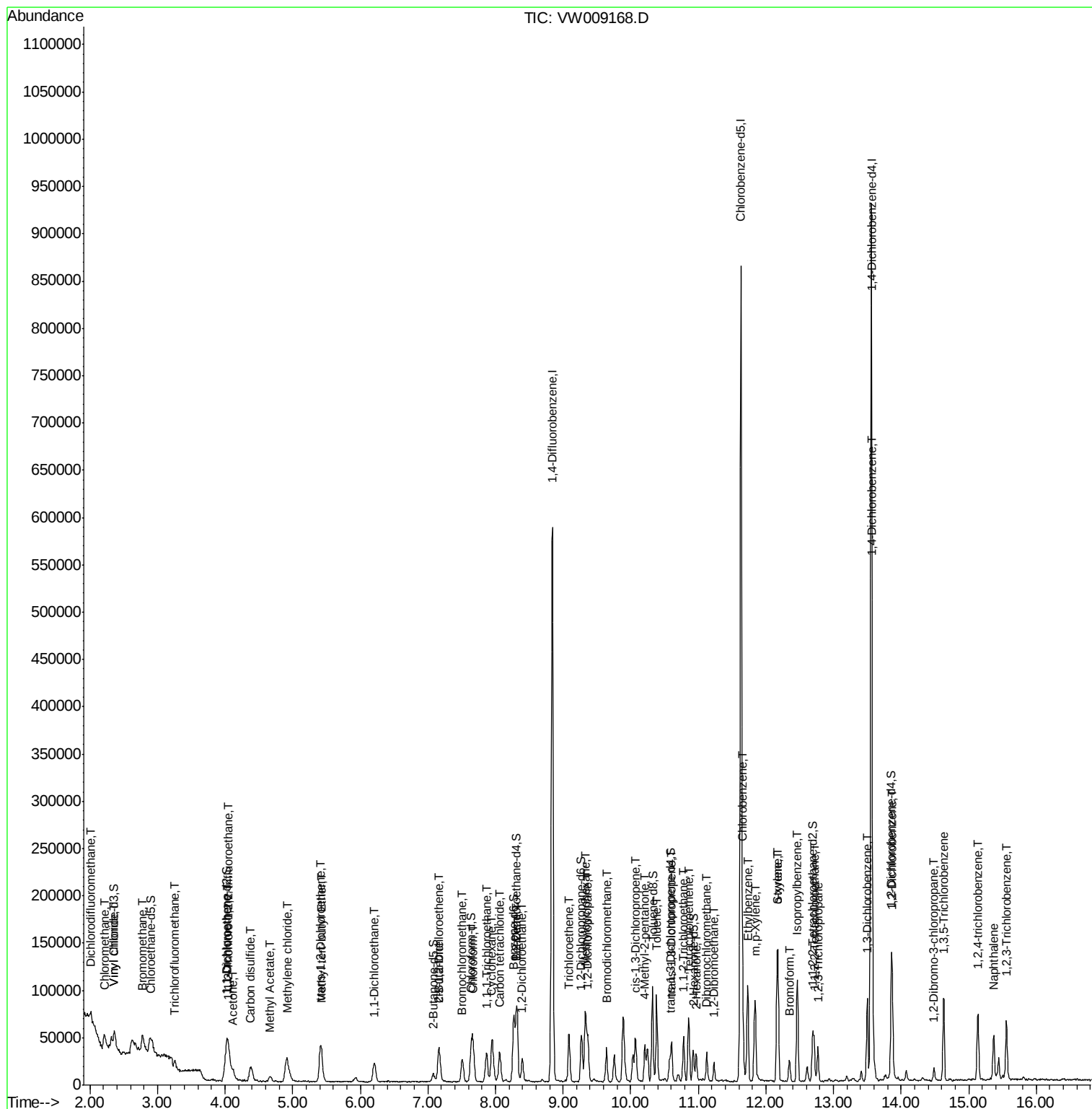
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) trans-1,3-Dichloropropene	10.60	75	20039	2.275	ug/L	87
46) 1,1,2-Trichloroethane	10.79	97	13117	2.579	ug/L	89
47) Tetrachloroethene	10.85	164	13981	2.311	ug/L	86
49) 2-Hexanone	10.97	43	18151	4.213	ug/L	98
50) Dibromochloromethane	11.13	129	14759	2.394	ug/L	98
51) 1,2-Dibromoethane	11.24	107	12699	2.469	ug/L	85
52) Chlorobenzene	11.66	112	40561	2.129	ug/L	98
53) Ethylbenzene	11.73	91	67203	2.043	ug/L	100
54) m,p-Xylene	11.84	106	26109	2.019	ug/L	94
55) o-xylene	12.17	106	24983	2.008	ug/L	94
56) Styrene	12.18	104	39709	1.903	ug/L	97
57) Isopropylbenzene	12.46	105	63040	1.899	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.71	83	17241	2.527	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	12810	2.539	ug/L	96
62) Bromoform	12.35	173	9077	2.571	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	31515	2.117	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	33433	2.211	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	30365	2.202	ug/L	92
66) 1,2-Dibromo-3-chloropropan	14.49	75	3612	2.950	ug/L #	77
67) 1,3,5-Trichlorobenzene	14.63	180	25550	2.180	ug/L	95
68) 1,2,4-trichlorobenzene	15.14	180	20496	2.030	ug/L	98
69) Naphthalene	15.37	128	40449	1.946	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	19818	2.136	ug/L	97

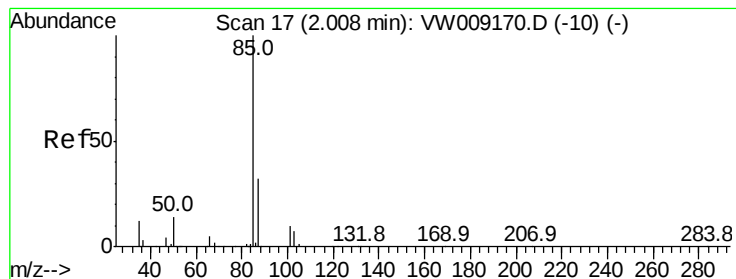
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.641 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

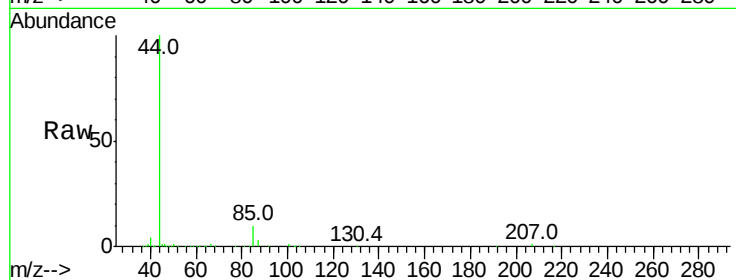
VSTD2.501

Tgt Ion: 85 Resp: 15074

Ion Ratio Lower Upper

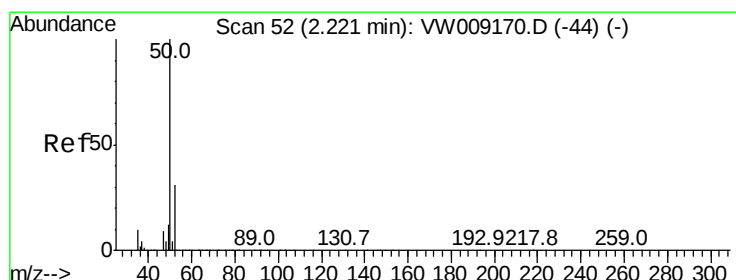
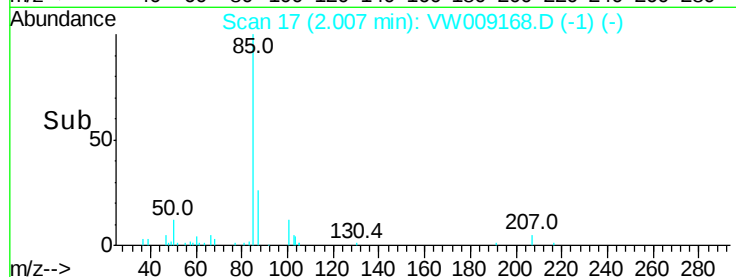
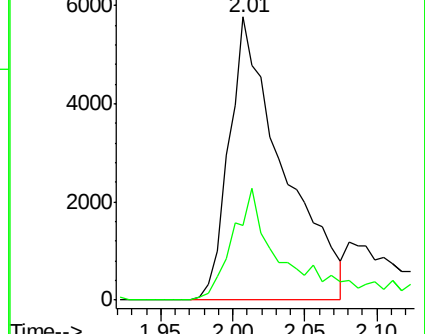
85 100

87 29.2 19.5 36.3



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 1.612 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW009168.D

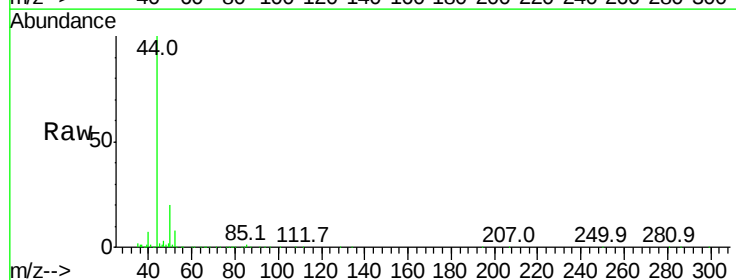
Acq: 14 Mar 2019 14:15

Tgt Ion: 50 Resp: 15304

Ion Ratio Lower Upper

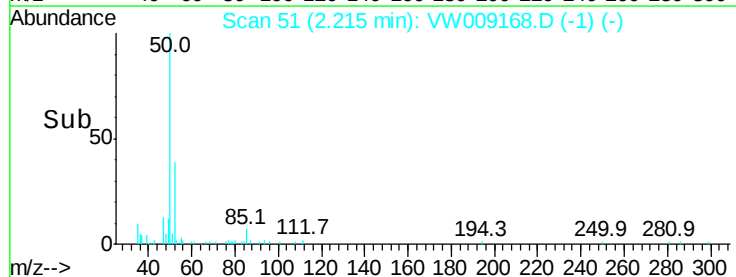
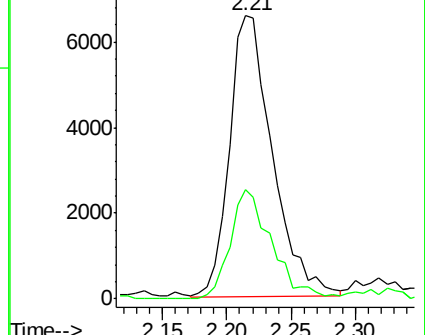
50 100

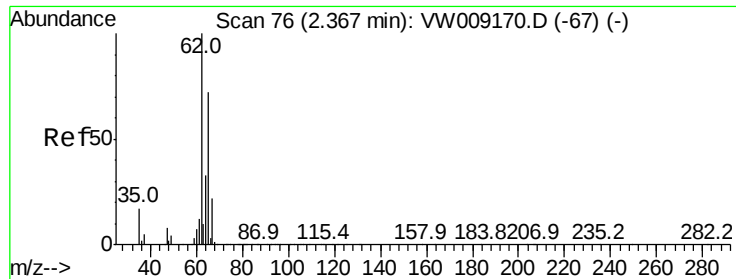
52 38.6 21.6 40.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 1.102 ug/L

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

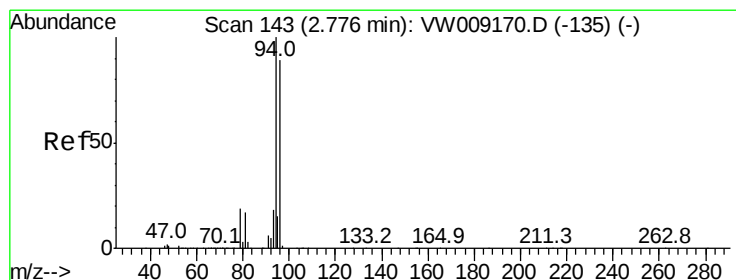
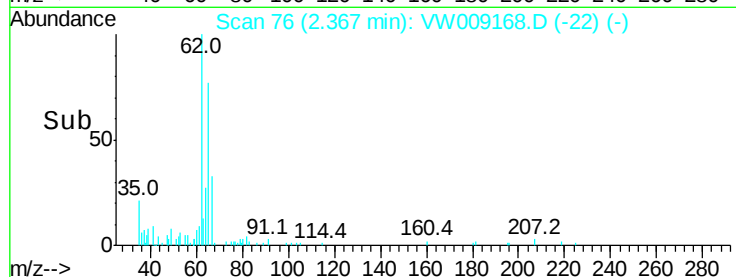
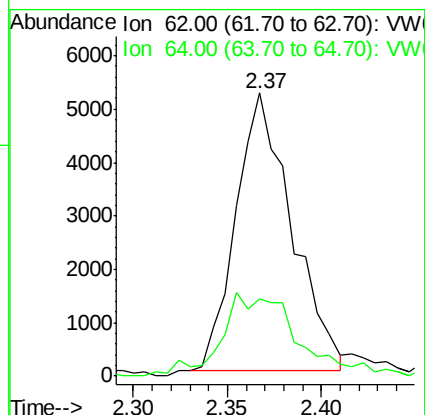
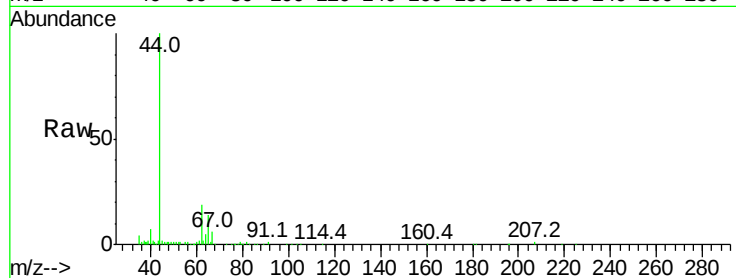
VSTD2.501

Tgt Ion: 62 Resp: 10726

Ion Ratio Lower Upper

62 100

64 27.3 23.0 42.6



#6

Bromomethane

Concen: 2.037 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW009168.D

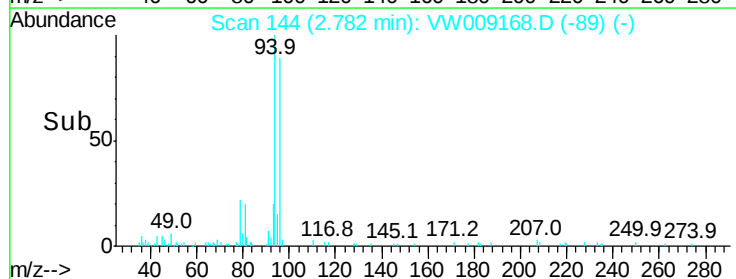
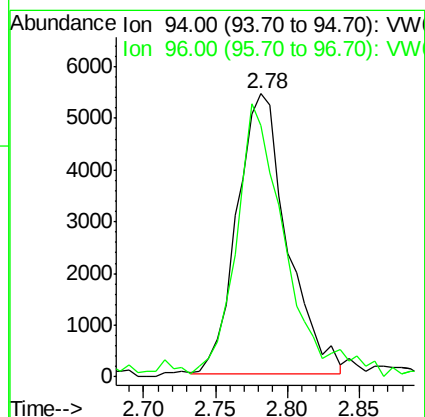
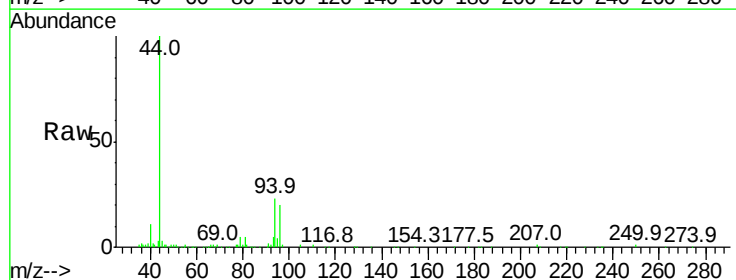
Acq: 14 Mar 2019 14:15

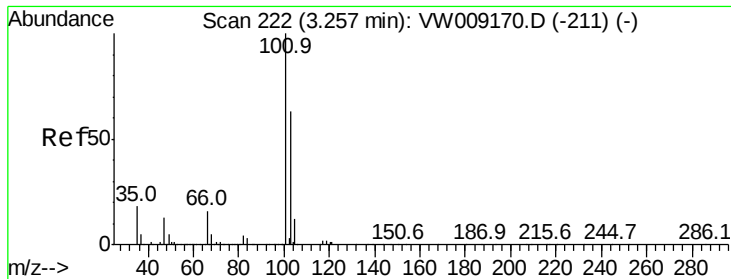
Tgt Ion: 94 Resp: 13143

Ion Ratio Lower Upper

94 100

96 88.8 9.4 178.4



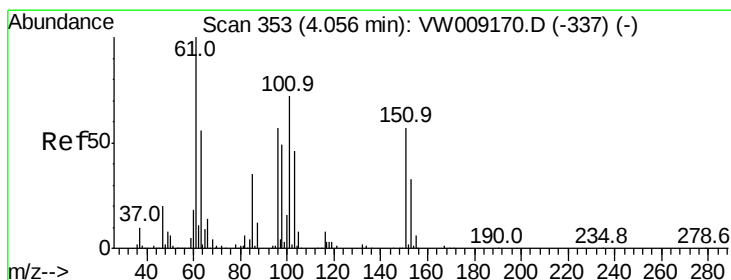
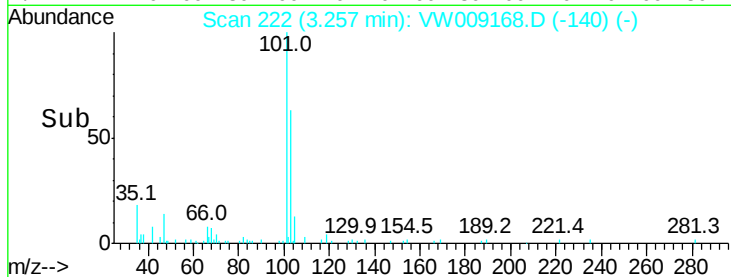
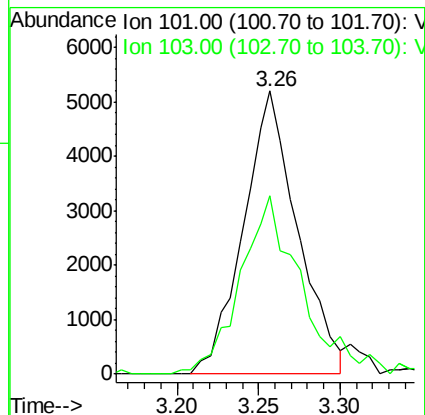
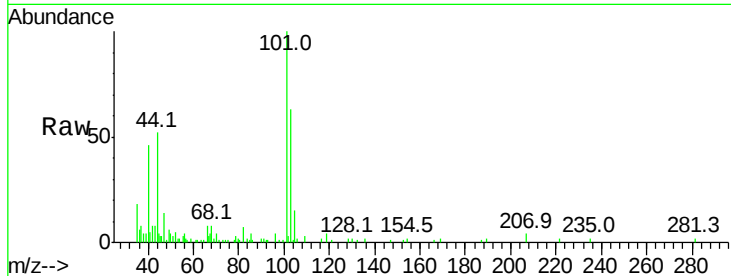


#9

Trichlorofluoromethane
Concen: 1.031 ug/L
RT: 3.26 min Scan# 222
Delta R.T. -0.00 min
Lab File: VW009168.D
Acq: 14 Mar 2019 14:15

Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

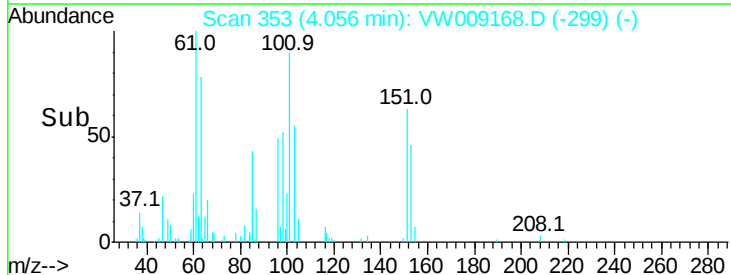
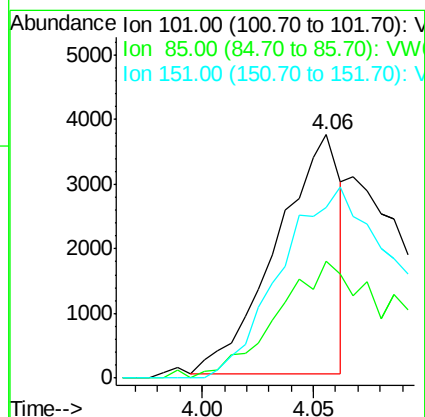
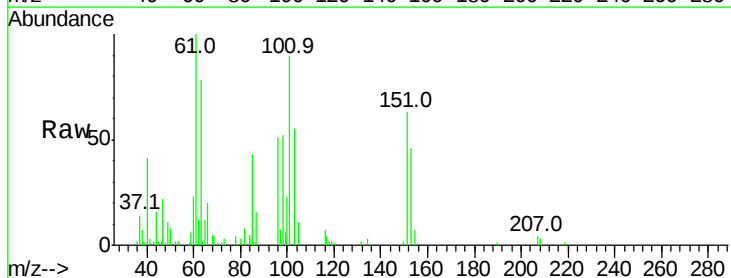
Tgt Ion:101 Resp: 12000
Ion Ratio Lower Upper
101 100
103 65.2 45.0 83.6

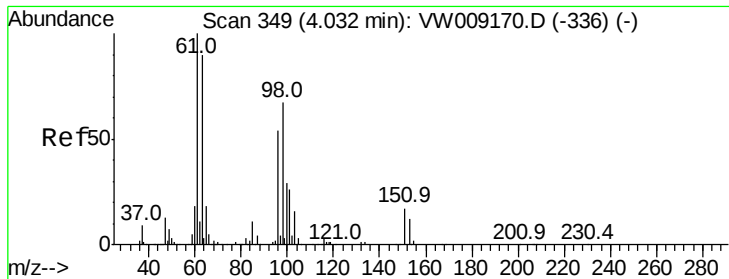


#11

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.084 ug/L
RT: 4.06 min Scan# 353
Delta R.T. -0.00 min
Lab File: VW009168.D
Acq: 14 Mar 2019 14:15

Tgt Ion:101 Resp: 7448
Ion Ratio Lower Upper
101 100
85 66.7 32.6 48.8#
151 99.4 63.3 94.9#





#12

1,1-Dichloroethene

Concen: 1.309 ug/L

RT: 4.03 min Scan# 348

Delta R.T. -0.01 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

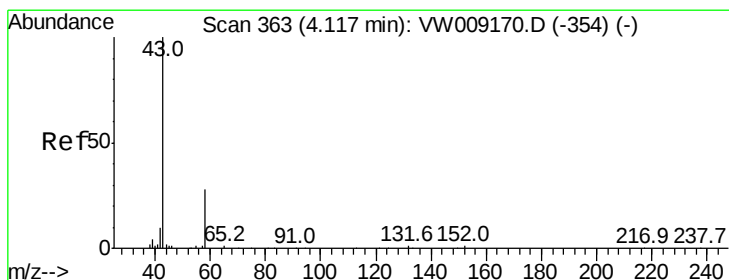
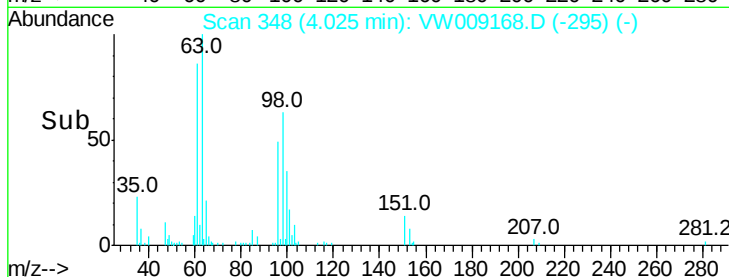
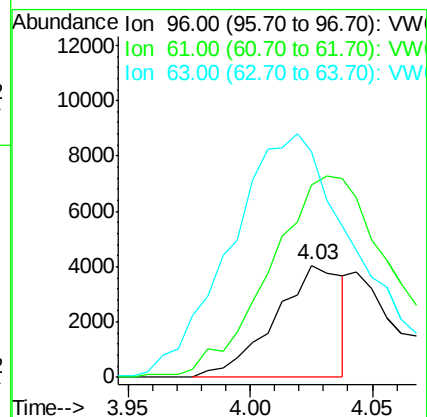
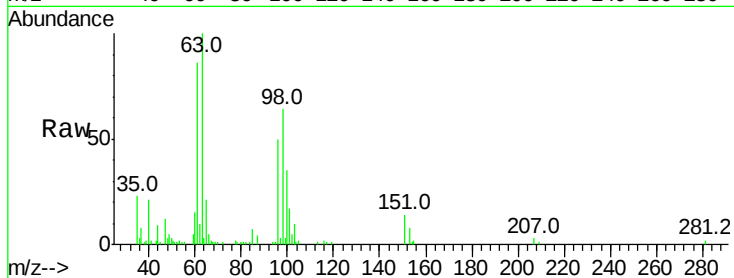
Tgt Ion: 96 Resp: 7807

Ion Ratio Lower Upper

96 100

61 171.9 129.4 240.2

63 200.8 116.8 217.0



#13

Acetone

Concen: 5.902 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009168.D

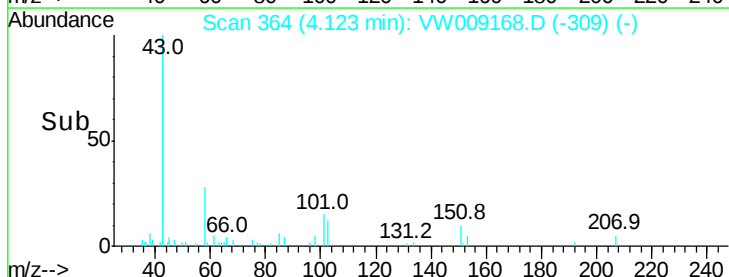
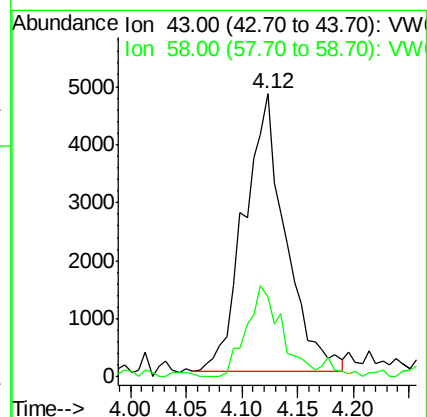
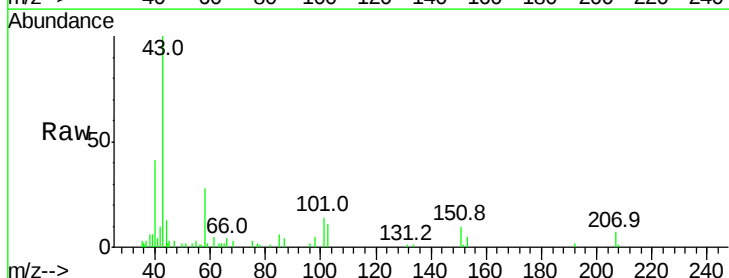
Acq: 14 Mar 2019 14:15

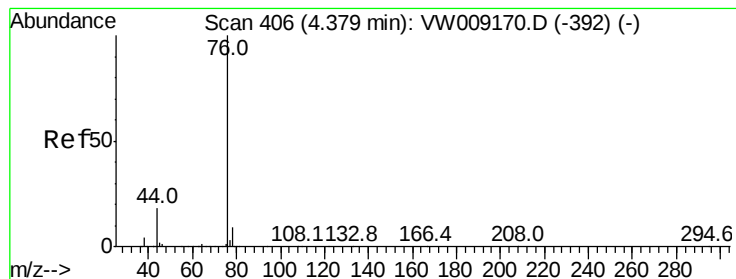
Tgt Ion: 43 Resp: 12417

Ion Ratio Lower Upper

43 100

58 25.8 0.0 56.2





#14

Carbon disulfide

Concen: 1.420 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

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ClientSampleId :

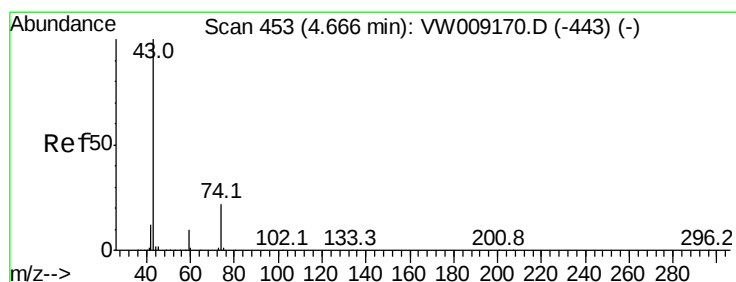
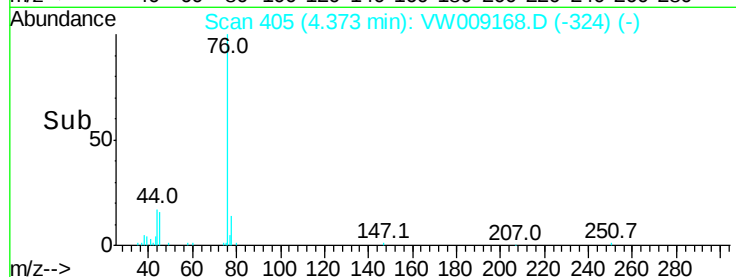
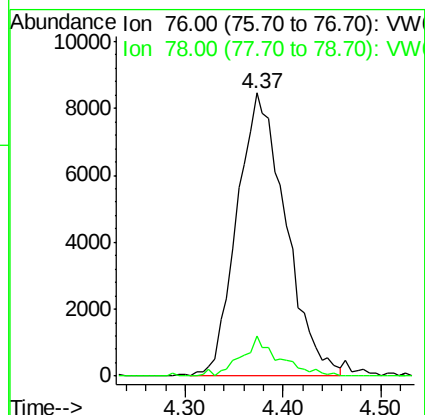
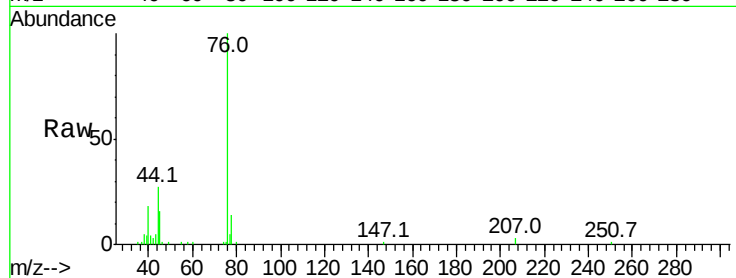
VSTD2.501

Tgt Ion: 76 Resp: 29251

Ion Ratio Lower Upper

76 100

78 14.2 7.3 10.9#



#15

Methyl Acetate

Concen: 2.496 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW009168.D

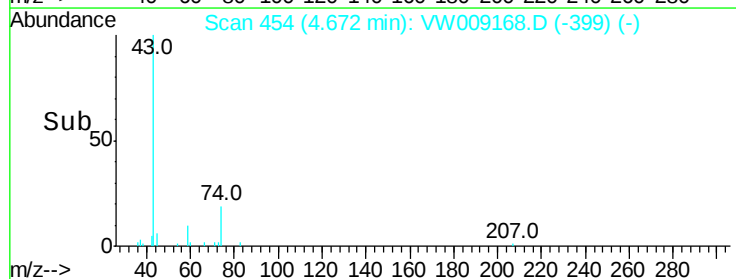
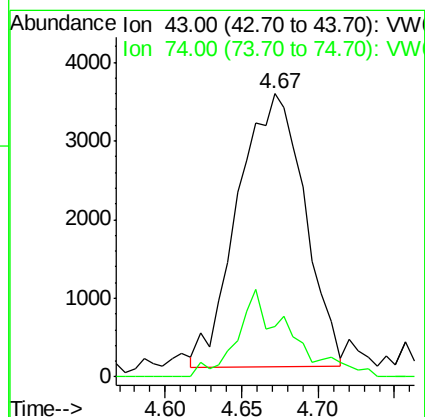
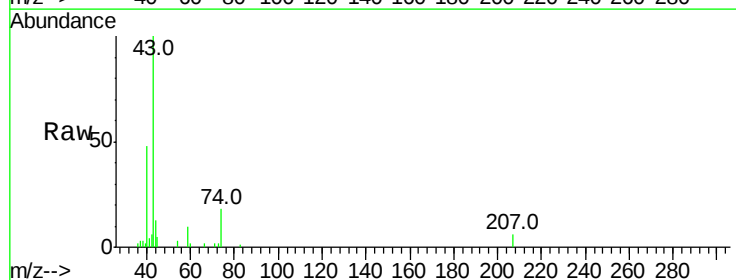
Acq: 14 Mar 2019 14:15

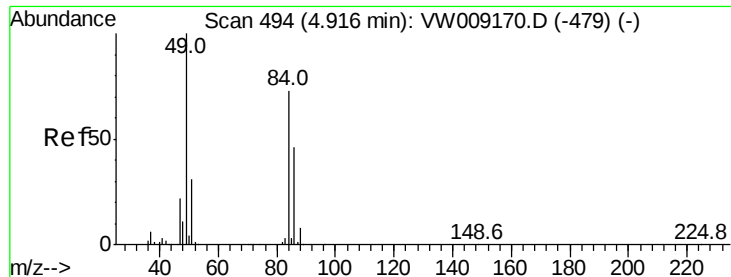
Tgt Ion: 43 Resp: 10476

Ion Ratio Lower Upper

43 100

74 8.8 16.7 25.1#

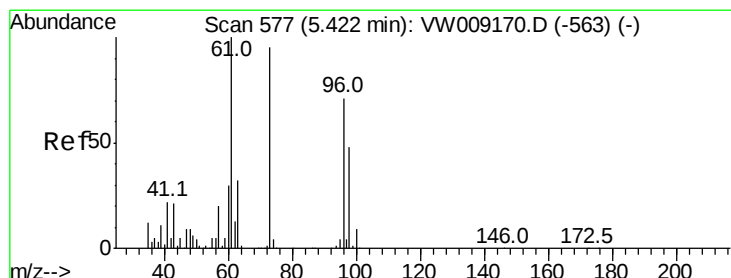
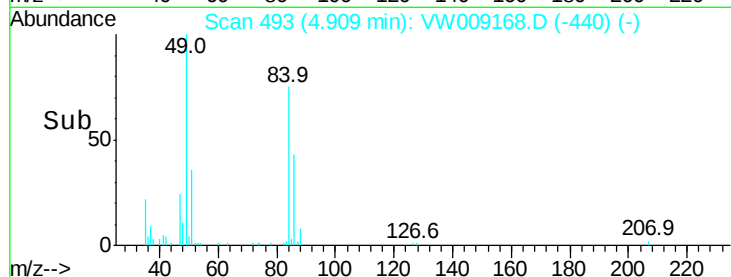
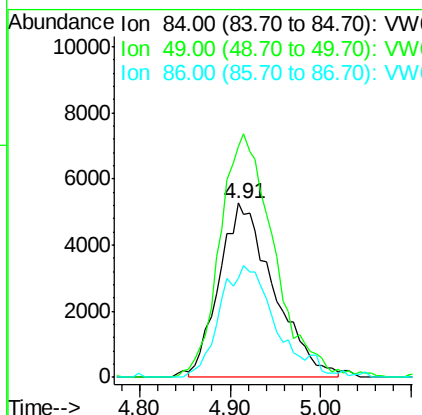
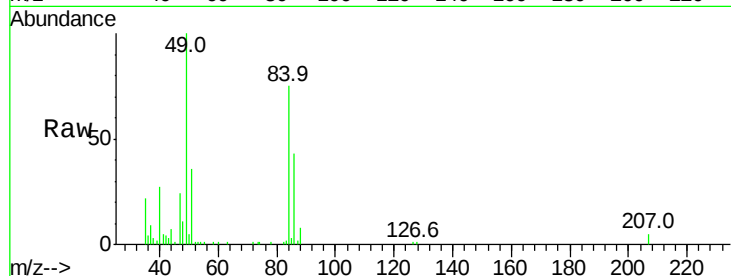




#16
Methylene chloride
Concen: 2.852 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW009168.D
Acq: 14 Mar 2019 14:15

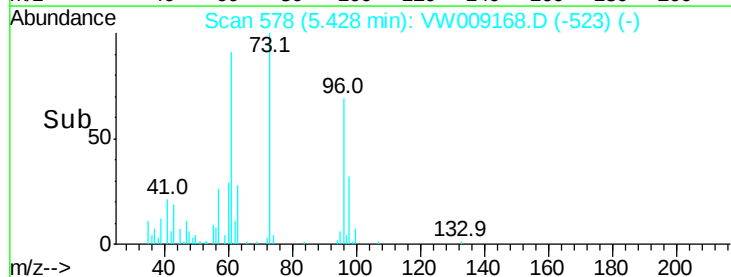
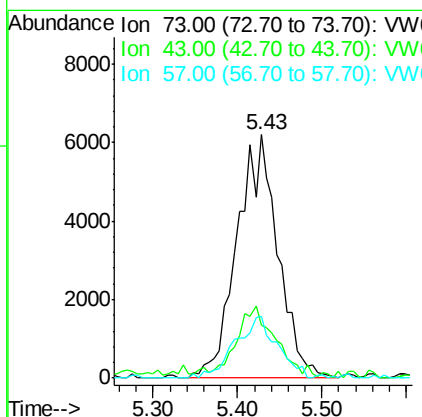
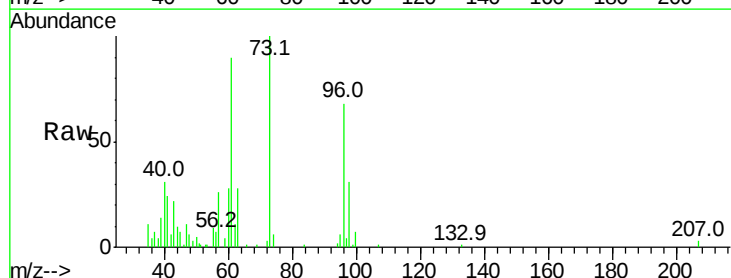
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

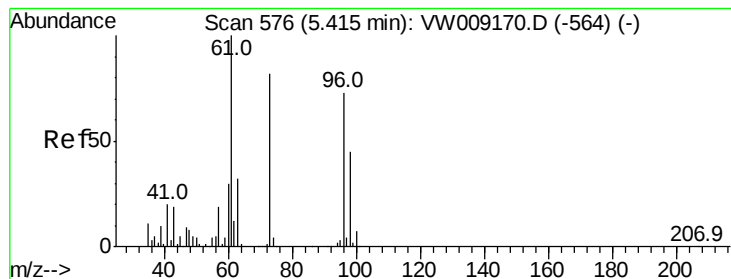
Tgt Ion: 84 Resp: 22048
Ion Ratio Lower Upper
84 100
49 132.8 96.0 178.2
86 56.8 44.4 82.5



#17
Methyl tert-butyl Ether
Concen: 1.219 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW009168.D
Acq: 14 Mar 2019 14:15

Tgt Ion: 73 Resp: 20447
Ion Ratio Lower Upper
73 100
43 26.5 18.2 27.4
57 16.2 17.8 26.8#





#18

trans-1,2-Dichloroethene

Concen: 2.279 ug/L

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

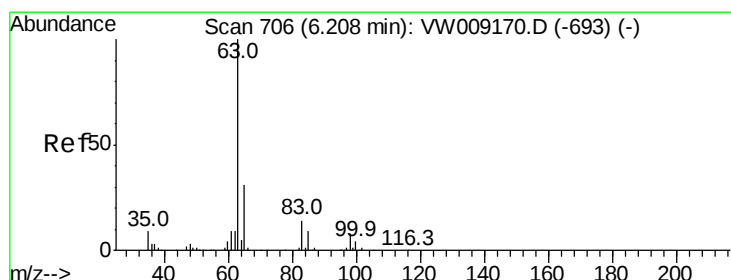
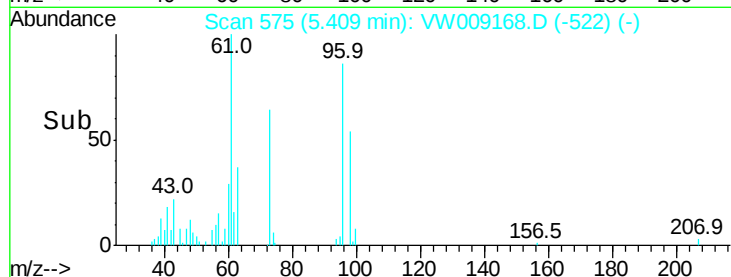
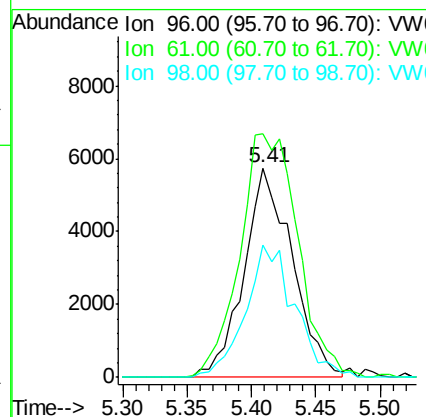
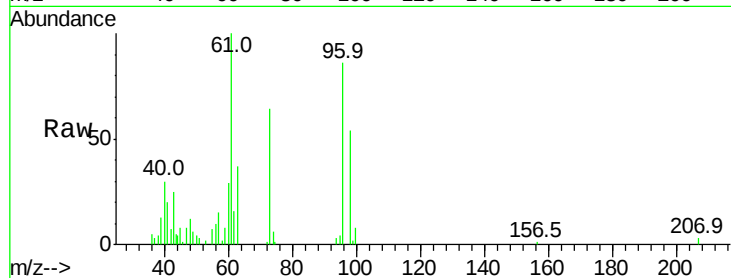
Tgt Ion: 96 Resp: 14962

Ion Ratio Lower Upper

96 100

61 116.3 96.7 179.5

98 63.1 43.8 81.4



#19

1,1-Dichloroethane

Concen: 2.465 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

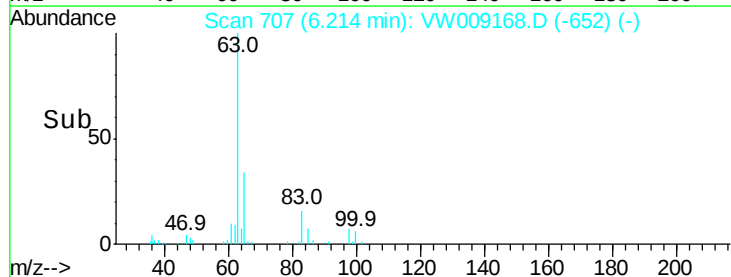
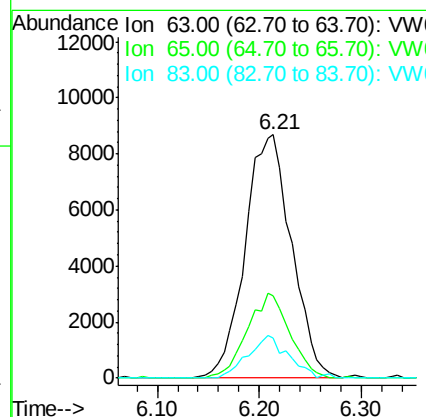
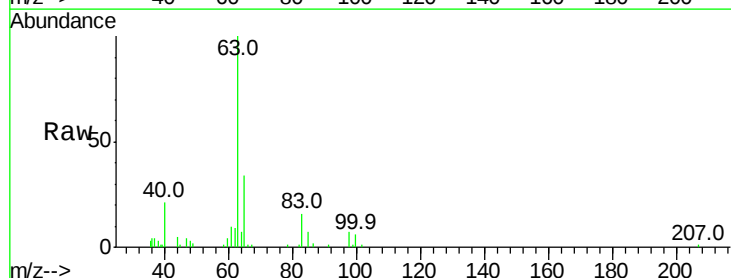
Tgt Ion: 63 Resp: 27476

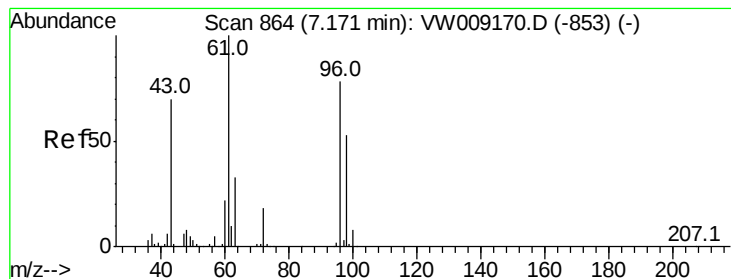
Ion Ratio Lower Upper

63 100

65 33.8 21.6 40.0

83 16.5 10.1 18.7





#21

2-Butanone

Concen: 2.247 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampled :

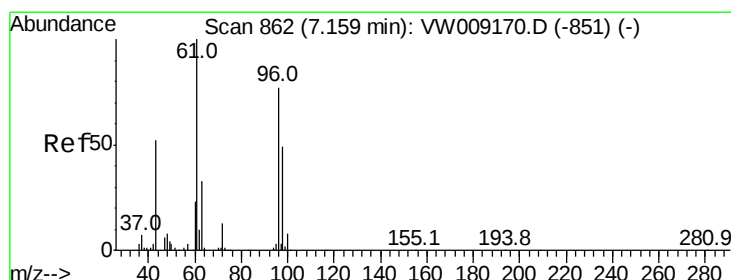
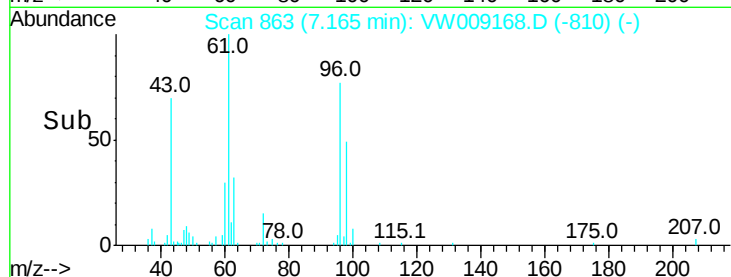
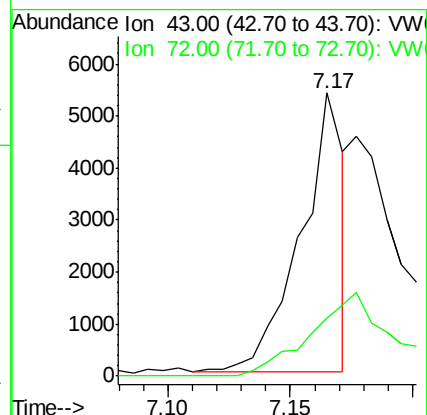
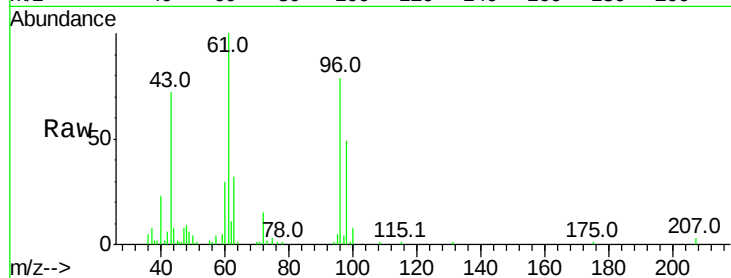
VSTD2.501

Tgt Ion: 43 Resp: 6614

Ion Ratio Lower Upper

43 100

72 56.3 13.1 39.1#



#22

cis-1,2-Dichloroethene

Concen: 2.219 ug/L

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

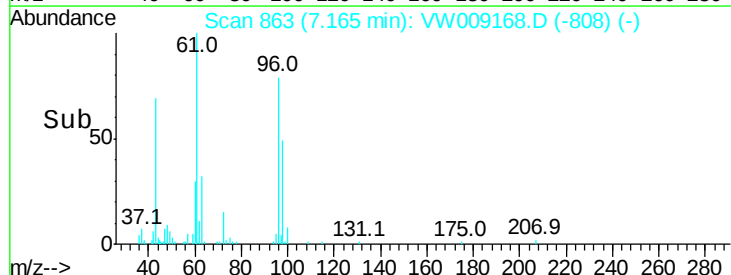
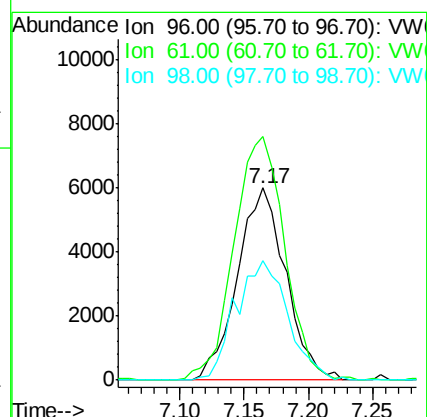
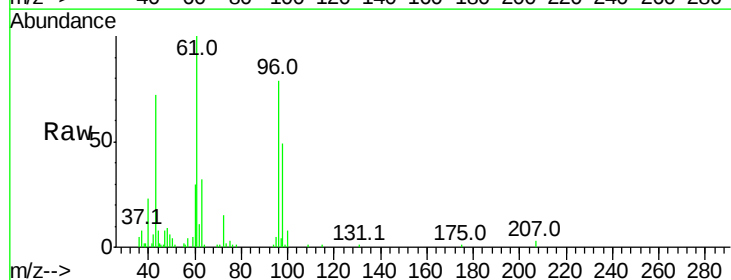
Tgt Ion: 96 Resp: 15627

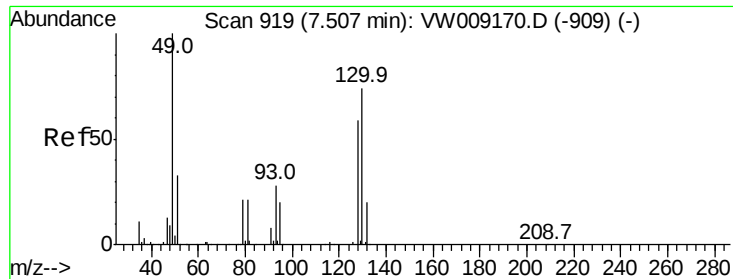
Ion Ratio Lower Upper

96 100

61 126.8 90.6 168.3

98 62.2 44.0 81.8





#23

Bromochloromethane

Concen: 2.463 ug/L

RT: 7.51 min Scan# 919

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

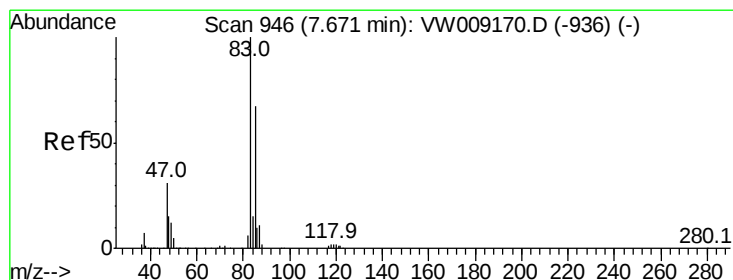
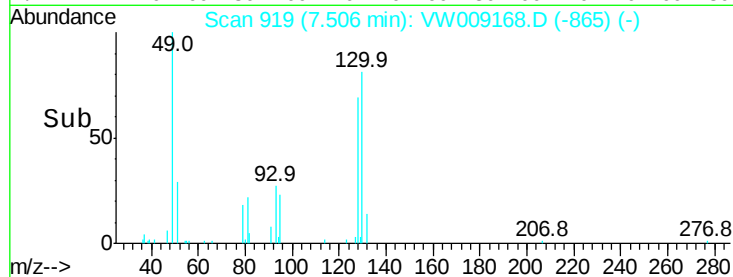
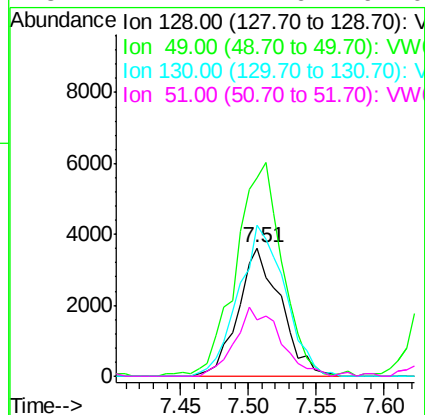
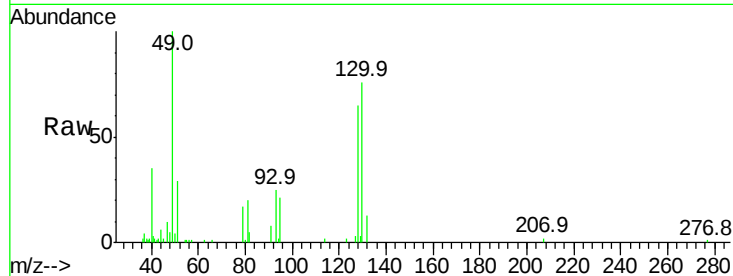
Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

Tgt Ion:	128	Resp:	7937
Ion	Ratio	Lower	Upper
128	100		
49	154.9	118.4	219.8
130	117.4	87.8	163.2
51	44.2	44.6	67.0#



#25

Chloroform

Concen: 2.433 ug/L

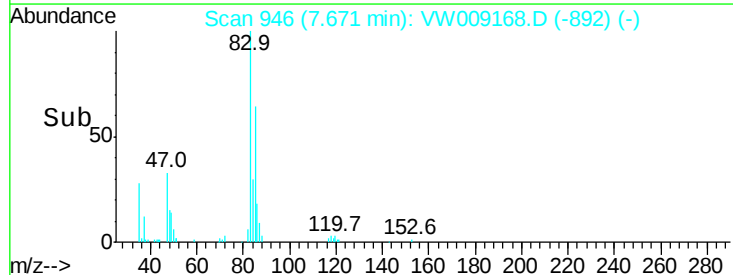
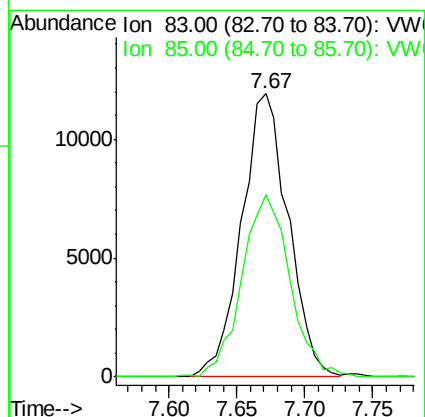
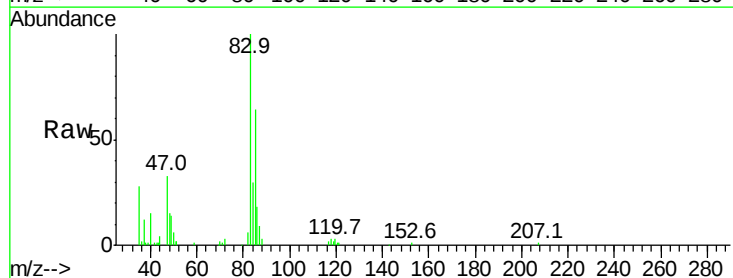
RT: 7.67 min Scan# 946

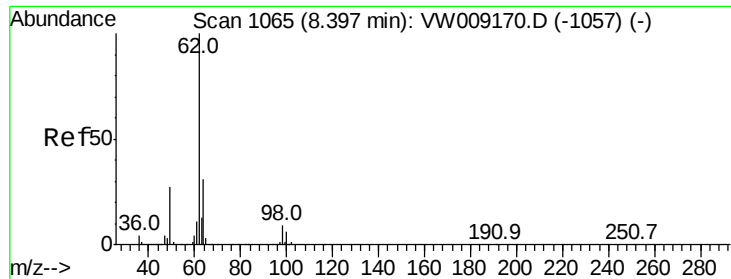
Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Tgt Ion:	83	Resp:	28551
Ion	Ratio	Lower	Upper
83	100		
85	65.2	46.0	85.4

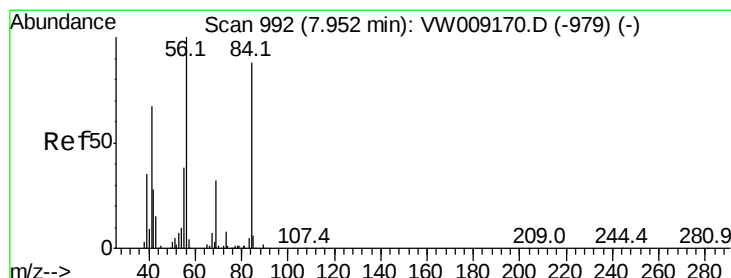
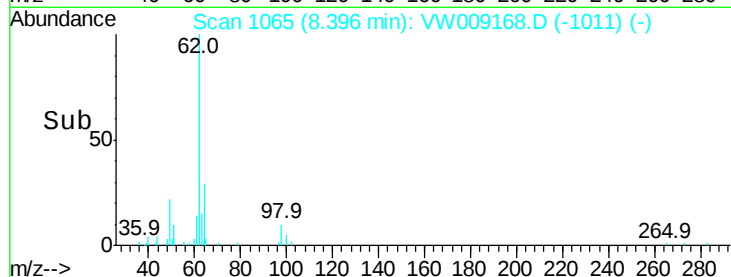
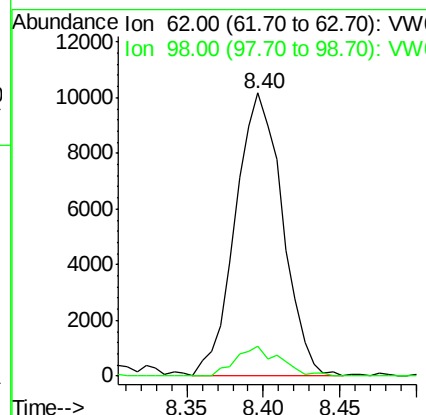
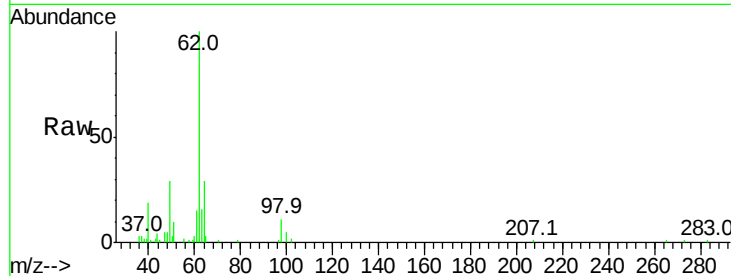




#27
 1,2-Dichloroethane
 Concen: 2.557 ug/L
 RT: 8.40 min Scan# 1065
 Delta R.T. -0.00 min
 Lab File: VW009168.D
 Acq: 14 Mar 2019 14:15

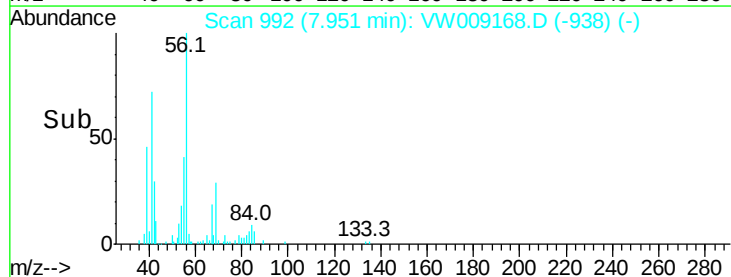
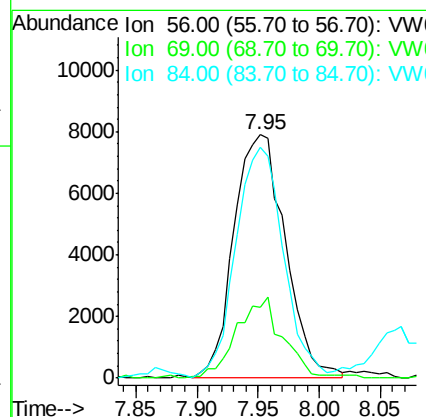
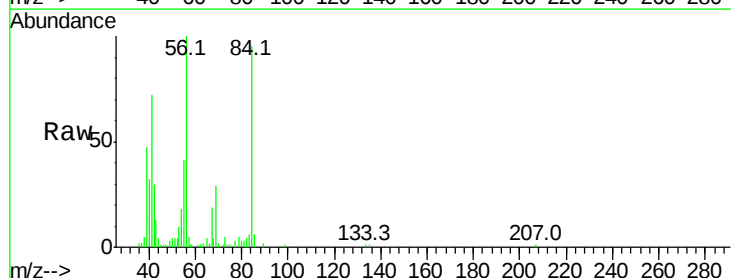
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.501

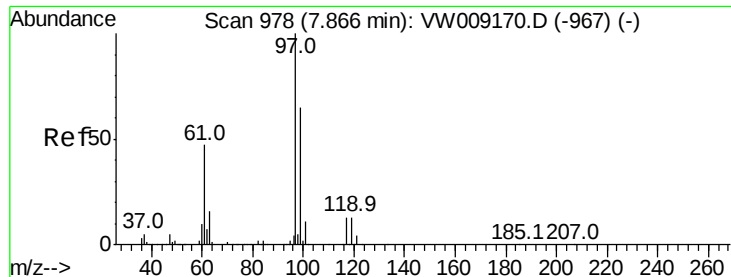
Tgt Ion: 62 Resp: 21824
 Ion Ratio Lower Upper
 62 100
 98 10.7 7.3 10.9



#30
 Cyclohexane
 Concen: 2.158 ug/L
 RT: 7.95 min Scan# 992
 Delta R.T. -0.00 min
 Lab File: VW009168.D
 Acq: 14 Mar 2019 14:15

Tgt Ion: 56 Resp: 23057
 Ion Ratio Lower Upper
 56 100
 69 29.5 24.0 36.0
 84 88.2 69.2 103.8





#31

1,1,1-Trichloroethane

Concen: 2.109 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

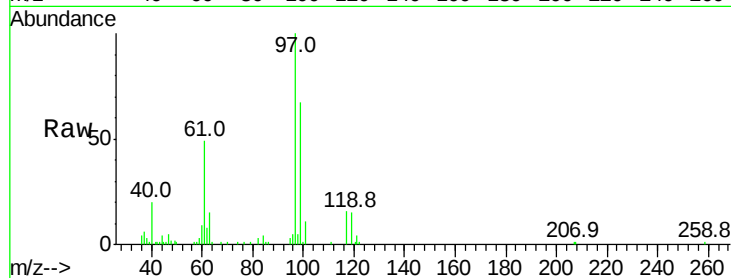
Tgt Ion: 97 Resp: 22103

Ion Ratio Lower Upper

97 100

99 68.5 51.2 76.8

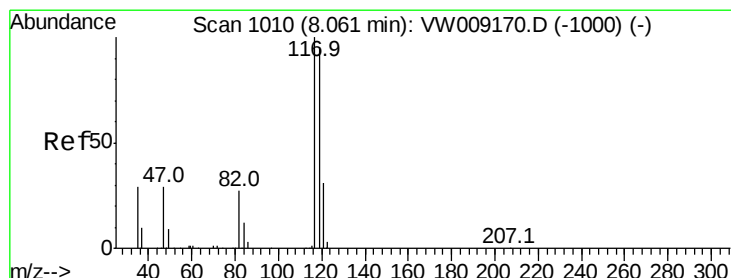
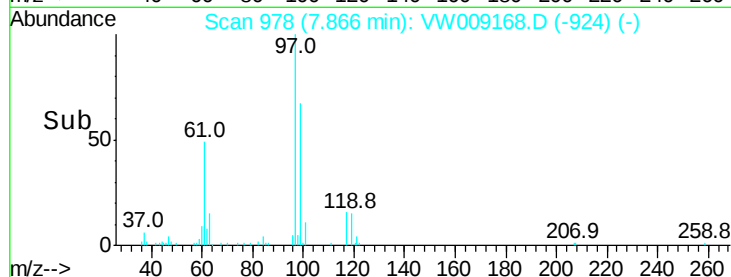
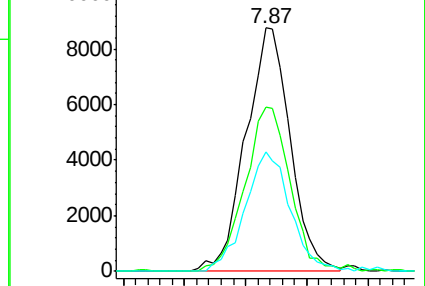
61 49.8 38.4 57.6



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: 2.238 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VW009168.D

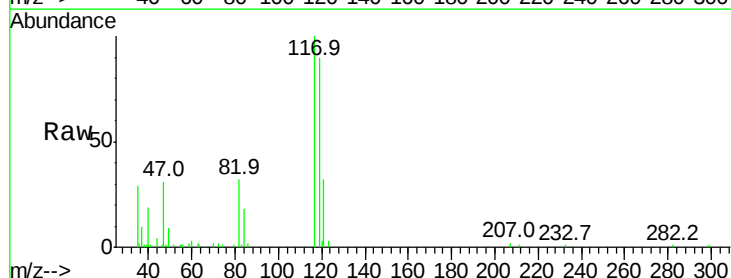
Acq: 14 Mar 2019 14:15

Tgt Ion: 117 Resp: 21428

Ion Ratio Lower Upper

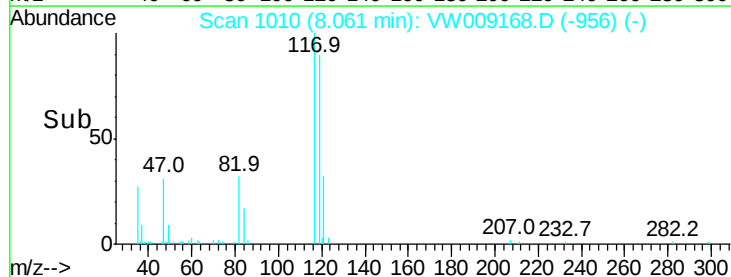
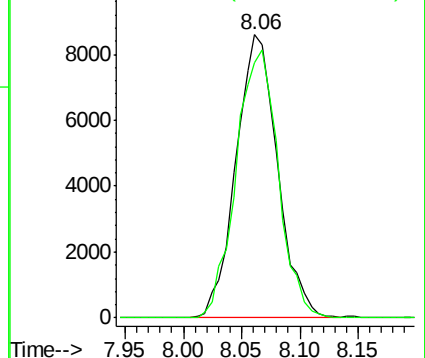
117 100

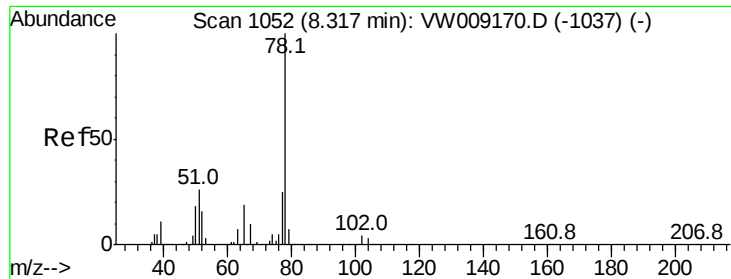
119 95.9 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 2.346 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

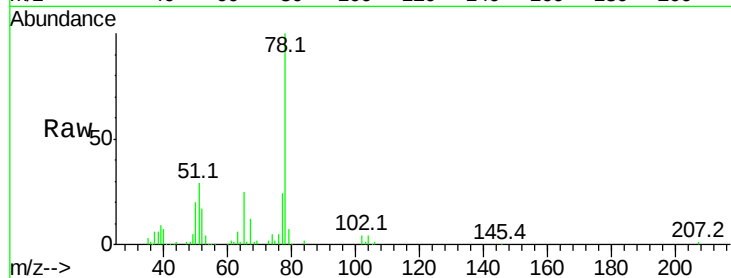
Instrument :

MSVOA_W

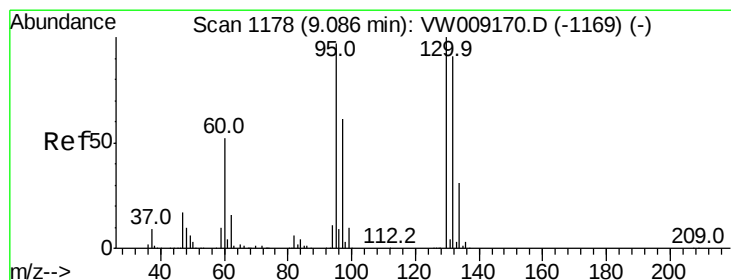
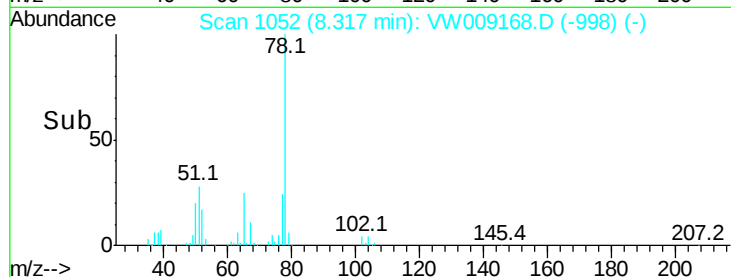
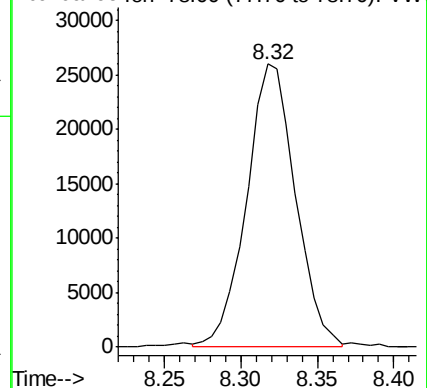
ClientSampleId :

VSTD2.501

Tgt Ion: 78 Resp: 57753



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.334 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Tgt Ion: 95 Resp: 15511

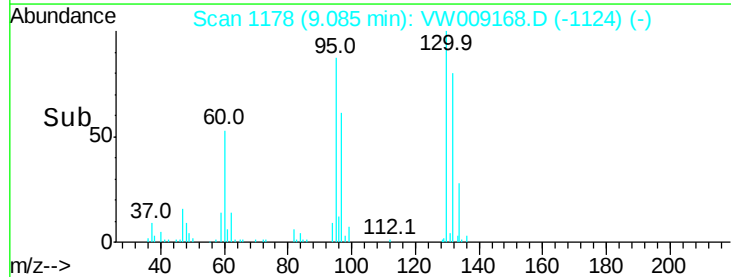
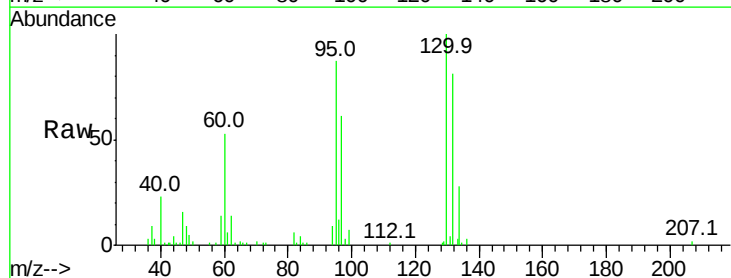
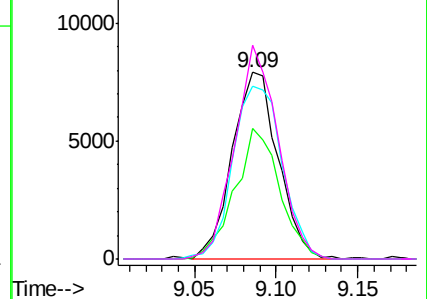
Ion	Ratio	Lower	Upper
95	100		
97	68.3	44.7	82.9
132	99.6	69.0	128.2
130	108.1	72.7	134.9

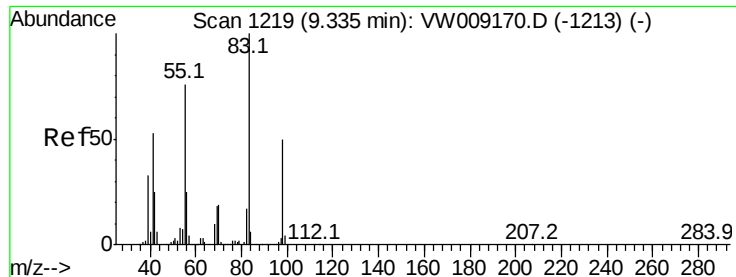
Abundance Ion 95.00 (94.70 to 95.70): VW

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

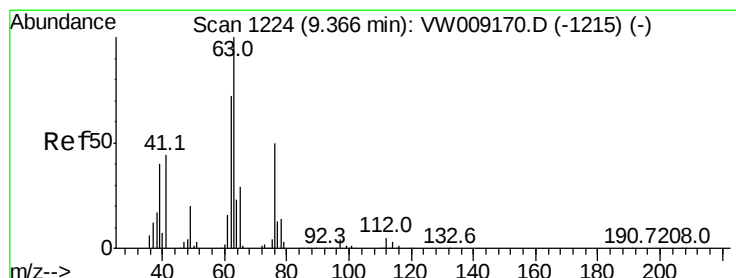
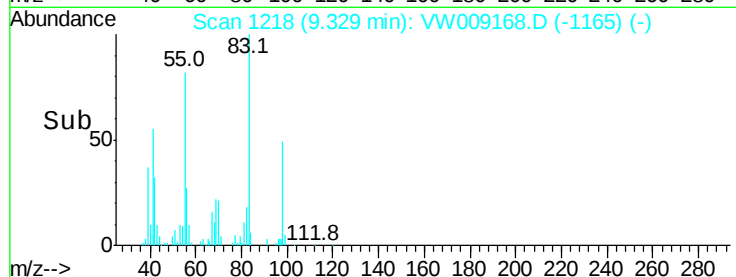
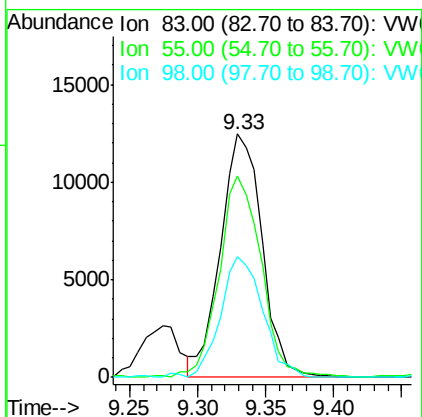
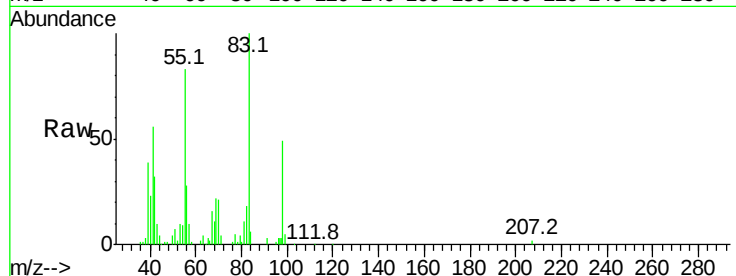




#36
Methylcyclohexane
Concen: 2.245 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW009168.D
Acq: 14 Mar 2019 14:15

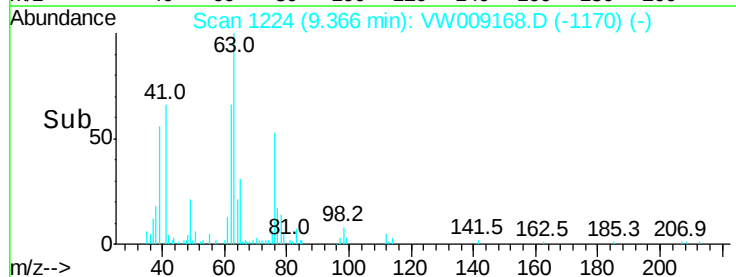
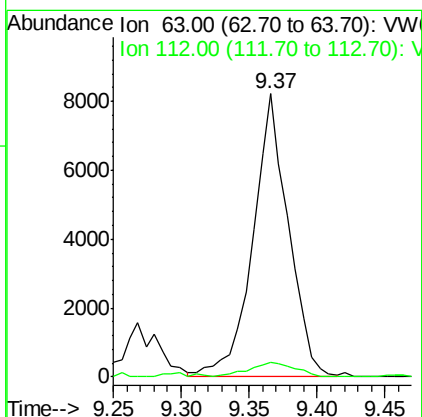
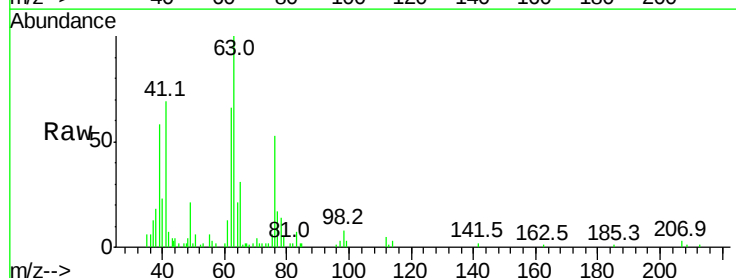
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

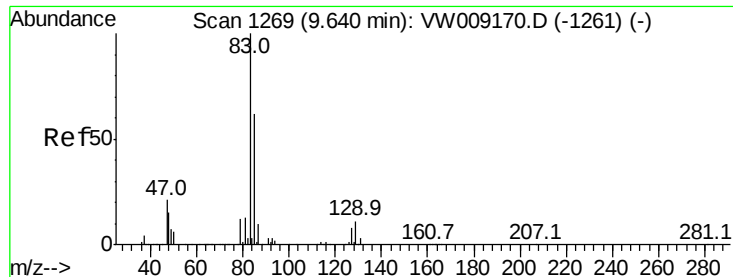
Tgt Ion: 83 Resp: 26470
Ion Ratio Lower Upper
83 100
55 83.9 63.5 95.3
98 50.1 39.8 59.8



#40
1,2-Dichloropropane
Concen: 2.486 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW009168.D
Acq: 14 Mar 2019 14:15

Tgt Ion: 63 Resp: 15118
Ion Ratio Lower Upper
63 100
112 6.5 4.0 6.0#





#41

Bromodichloromethane

Concen: 2.442 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

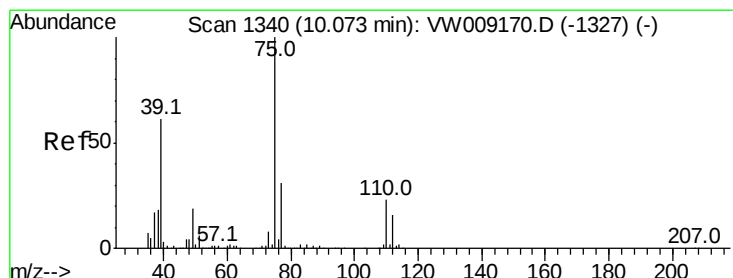
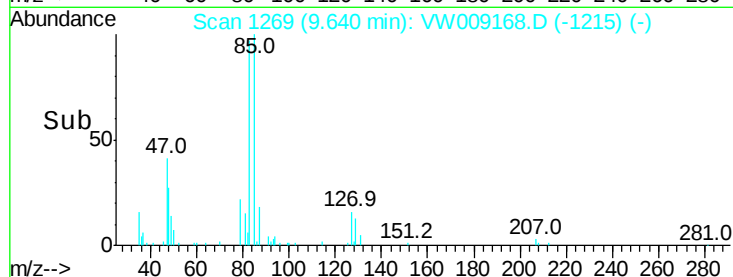
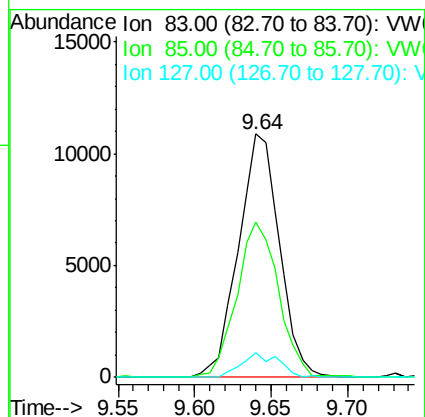
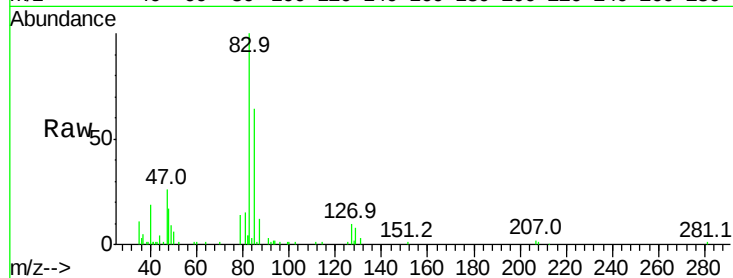
Tgt Ion: 83 Resp: 20195

Ion Ratio Lower Upper

83 100

85 63.6 43.5 80.7

127 9.9 6.2 9.4#



#42

cis-1,3-Dichloropropene

Concen: 2.378 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW009168.D

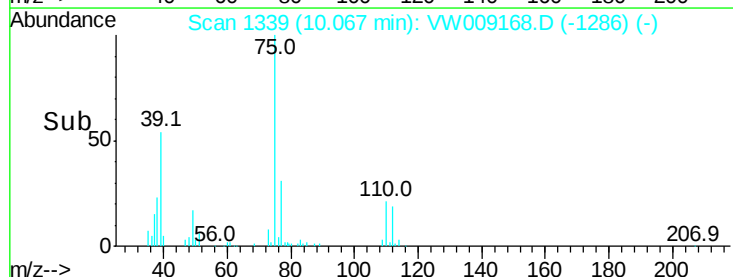
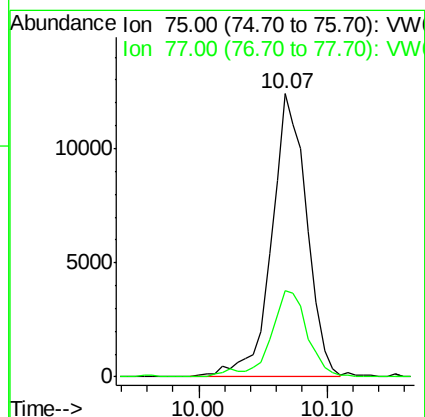
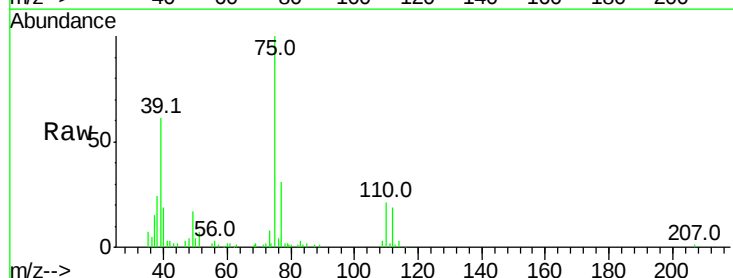
Acq: 14 Mar 2019 14:15

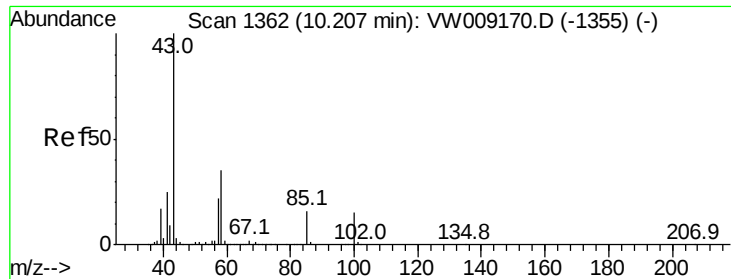
Tgt Ion: 75 Resp: 23461

Ion Ratio Lower Upper

75 100

77 30.7 21.6 40.2

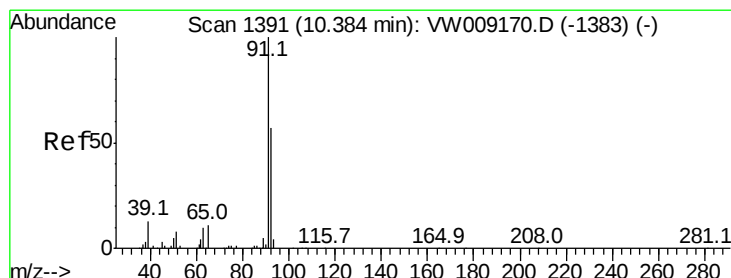
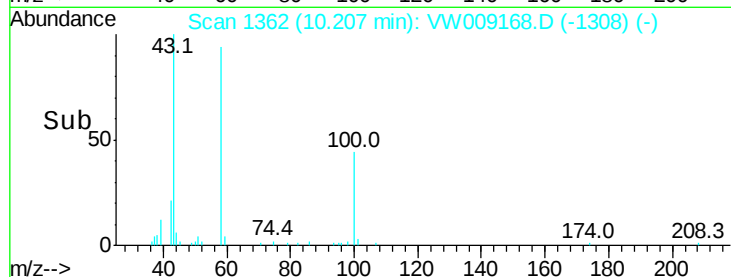
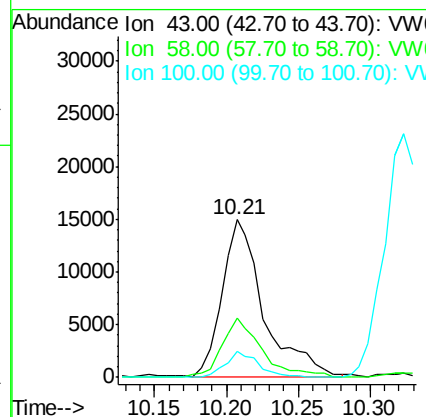
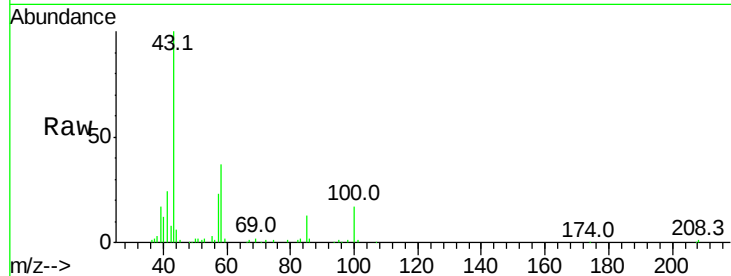




#43
 4-Methyl-2-pentanone
 Concen: 5.457 ug/L
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW009168.D
 Acq: 14 Mar 2019 14:15

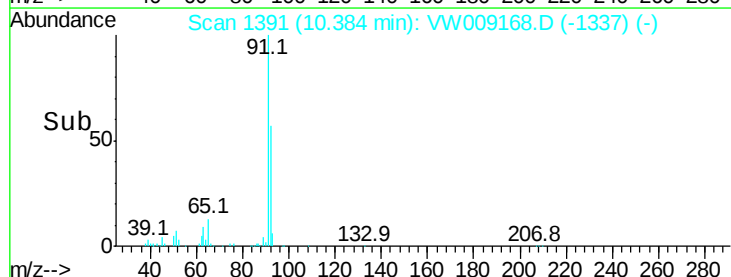
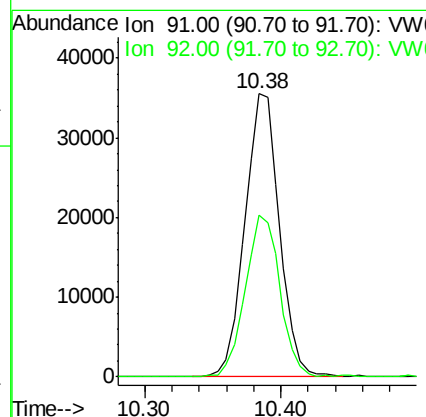
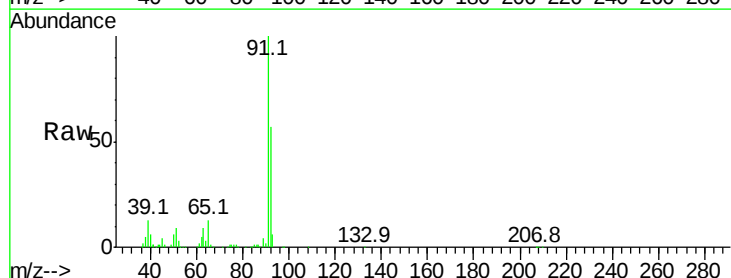
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.501

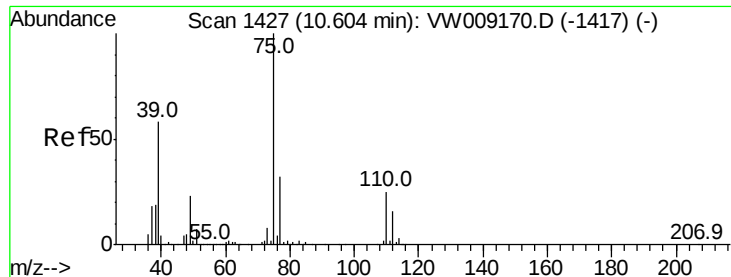
Tgt Ion: 43 Resp: 29977
 Ion Ratio Lower Upper
 43 100
 58 36.3 28.2 42.2
 100 13.3 11.4 17.2



#44
 Toluene
 Concen: 2.223 ug/L
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW009168.D
 Acq: 14 Mar 2019 14:15

Tgt Ion: 91 Resp: 62924
 Ion Ratio Lower Upper
 91 100
 92 57.0 39.8 73.8





#45

trans-1,3-Dichloropropene

Concen: 2.275 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

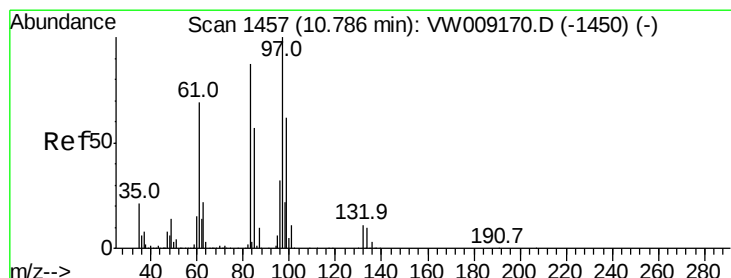
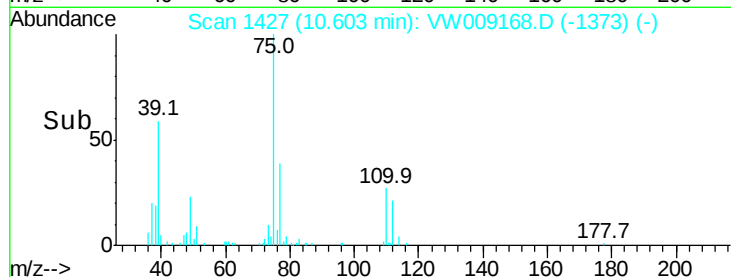
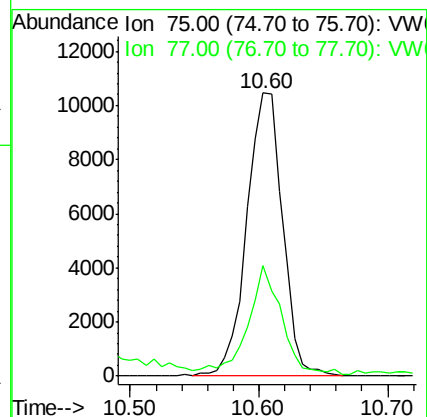
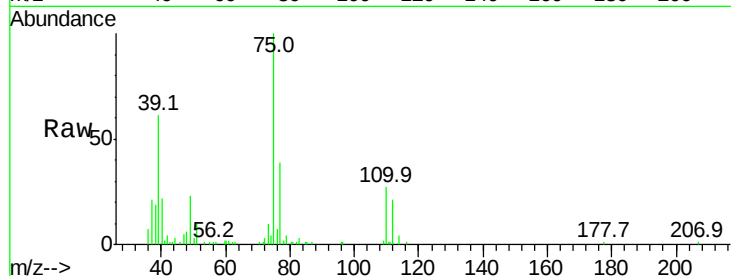
VSTD2.501

Tgt Ion: 75 Resp: 20039

Ion Ratio Lower Upper

75 100

77 39.3 22.5 41.7



#46

1,1,2-Trichloroethane

Concen: 2.579 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Tgt Ion: 97 Resp: 13117

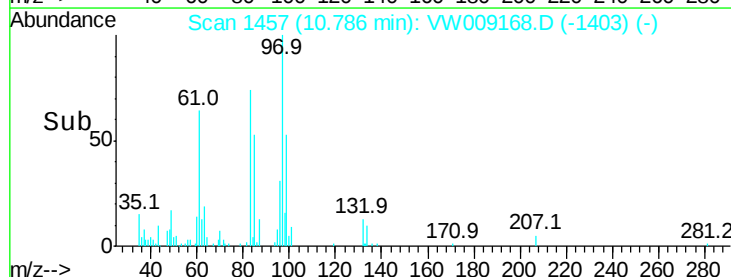
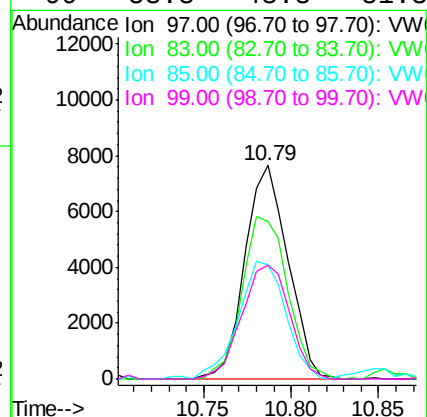
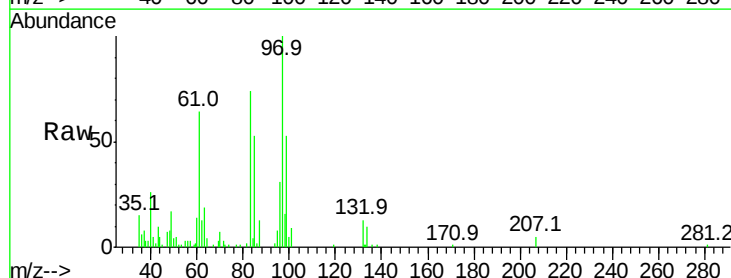
Ion Ratio Lower Upper

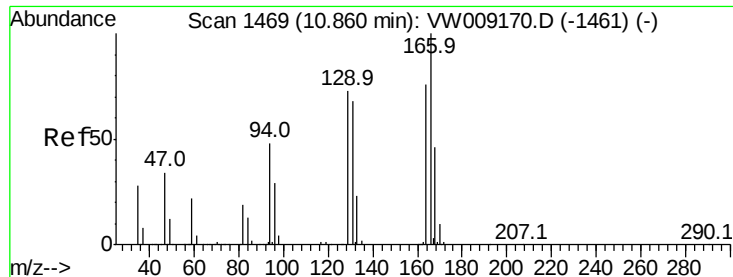
97 100

83 73.9 60.7 112.7

85 53.2 40.1 74.5

99 53.3 43.8 81.3





#47

Tetrachloroethene

Concen: 2.311 ug/L

RT: 10.85 min Scan# 1468

Delta R.T. -0.01 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

Tgt Ion:164 Resp: 13981

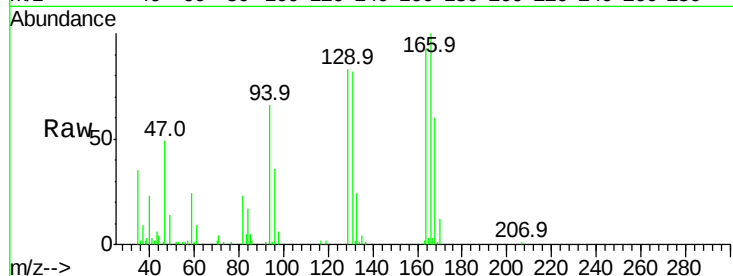
Ion Ratio Lower Upper

164 100

129 85.8 66.5 123.5

131 84.8 62.6 116.3

166 103.6 91.6 170.0

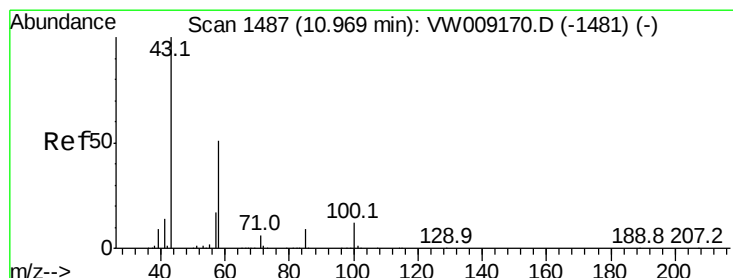
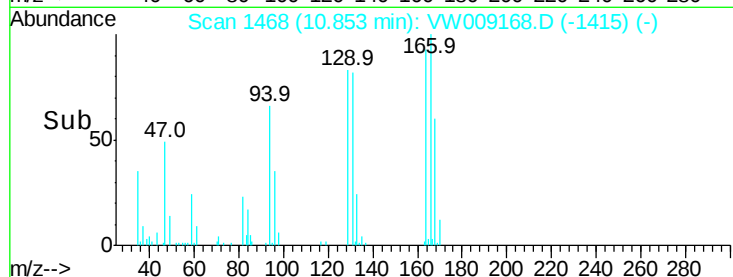
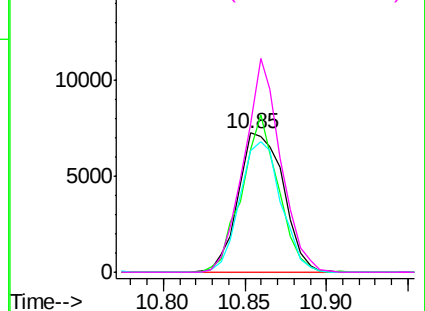


Abundance Ion 164.00 (163.70 to 164.70): V

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: 4.213 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Tgt Ion: 43 Resp: 18151

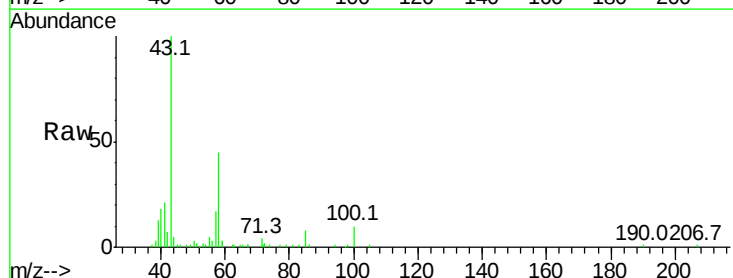
Ion Ratio Lower Upper

43 100

58 49.6 39.2 58.8

57 20.0 14.2 21.2

100 10.9 8.9 13.3

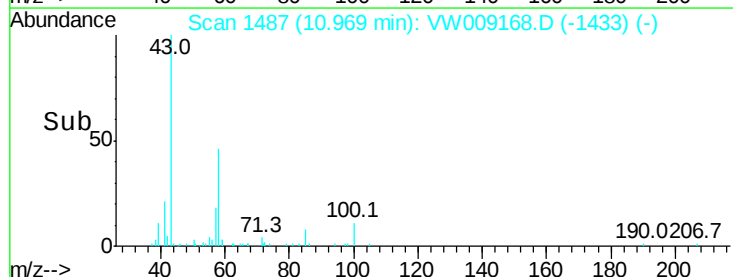
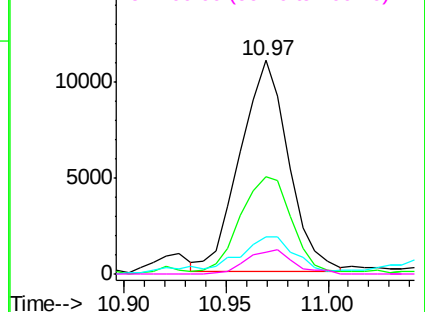


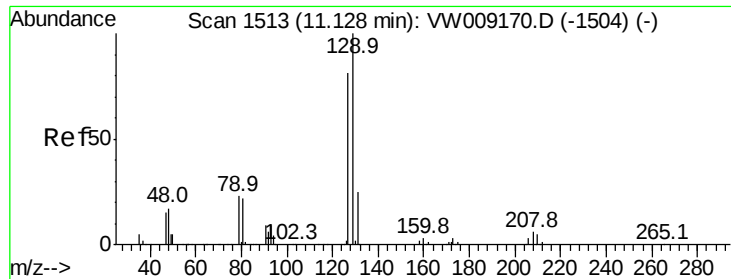
Abundance Ion 43.00 (42.70 to 43.70): VV

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: 2.394 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

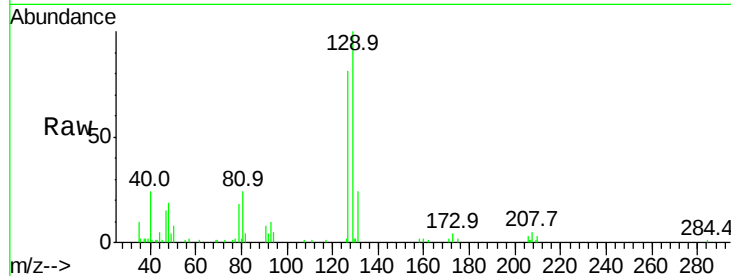
VSTD2.501

Tgt Ion:129 Resp: 14759

Ion Ratio Lower Upper

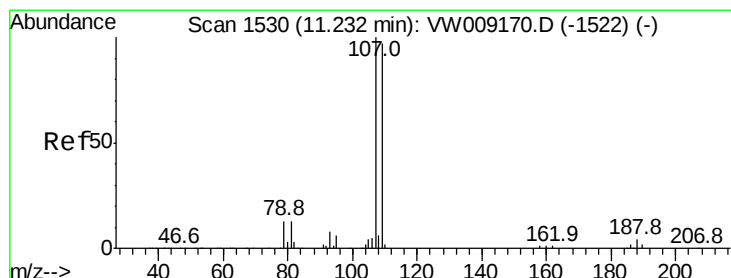
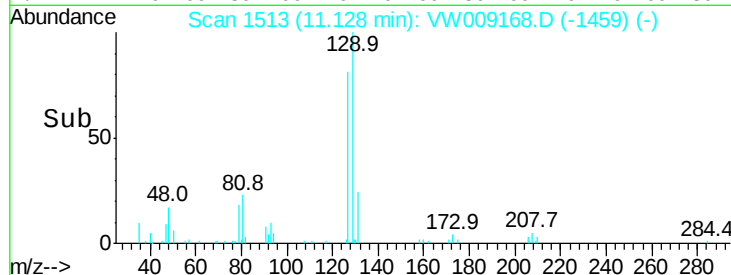
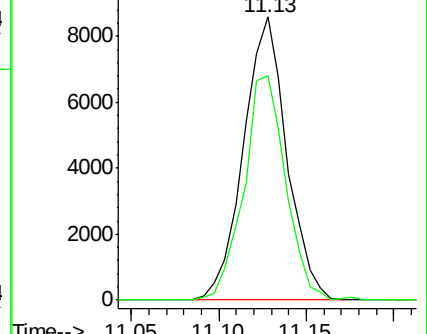
129 100

127 79.3 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 2.469 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

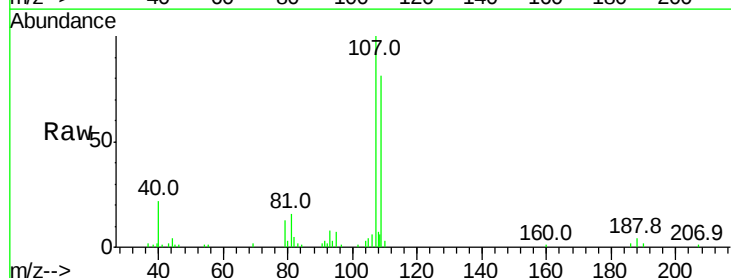
Tgt Ion:107 Resp: 12699

Ion Ratio Lower Upper

107 100

109 81.4 68.0 126.4

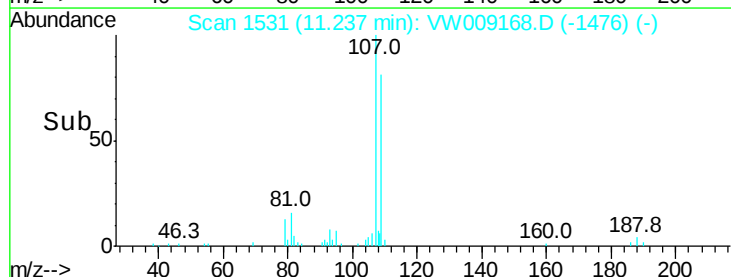
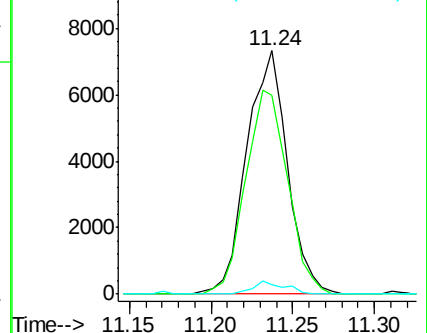
188 3.7 3.5 5.3

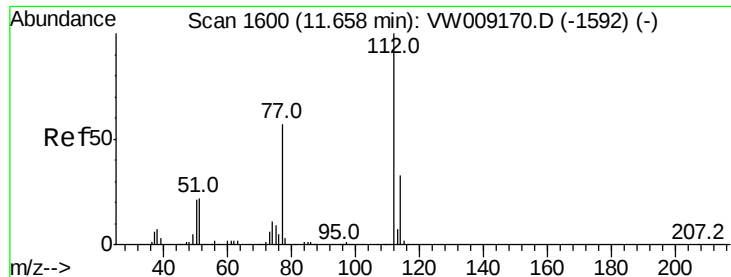


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 2.129 ug/L

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

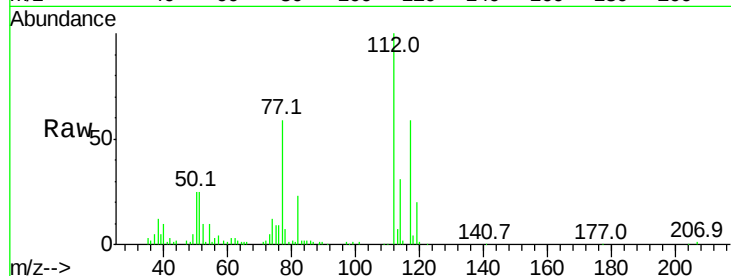
Tgt Ion: 112 Resp: 40561

Ion Ratio Lower Upper

112 100

77 58.6 45.7 68.5

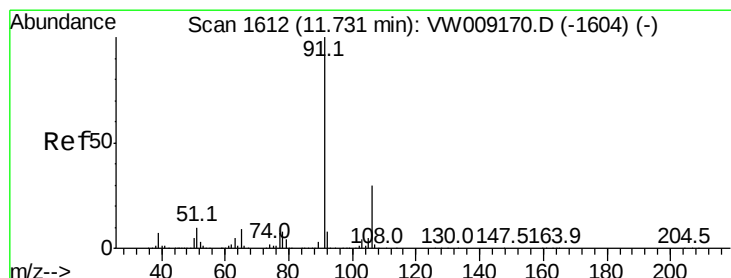
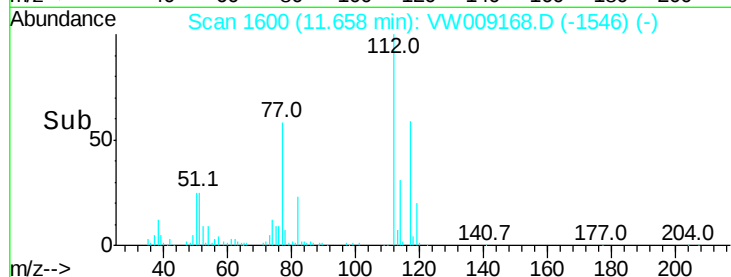
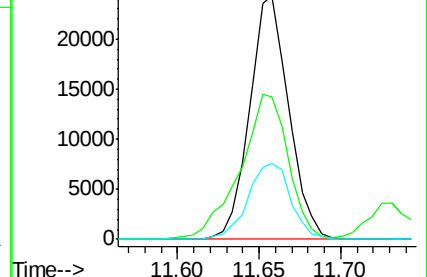
114 31.3 22.8 42.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 2.043 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009168.D

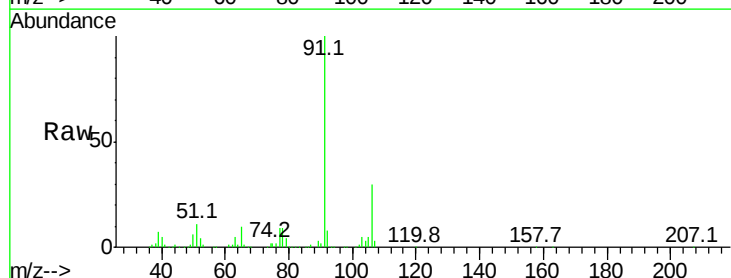
Acq: 14 Mar 2019 14:15

Tgt Ion: 91 Resp: 67203

Ion Ratio Lower Upper

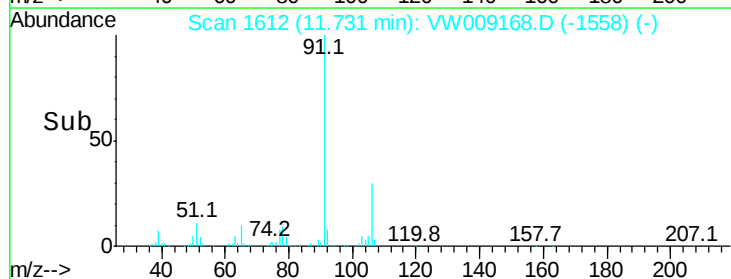
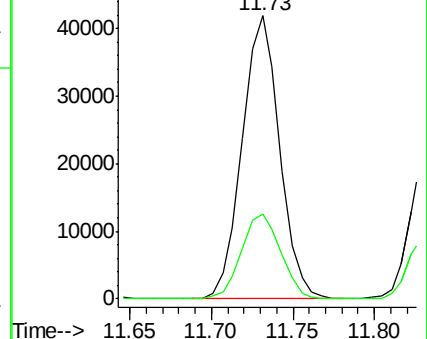
91 100

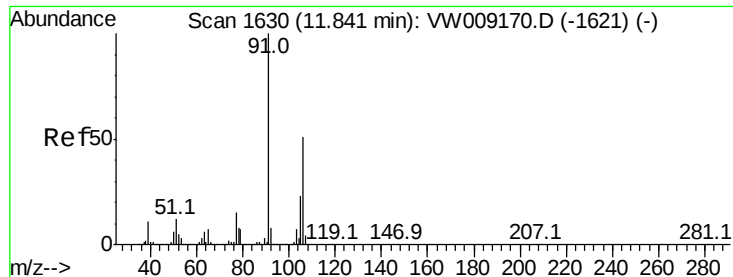
106 30.2 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 2.019 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

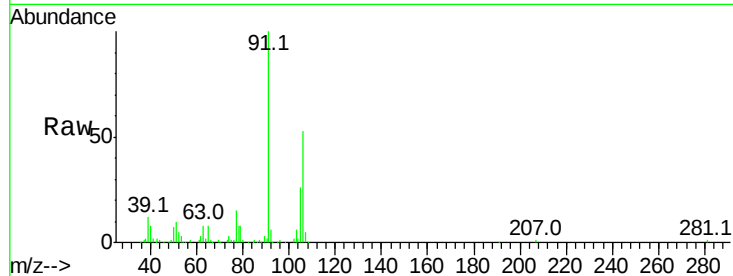
VSTD2.501

Tgt Ion:106 Resp: 26109

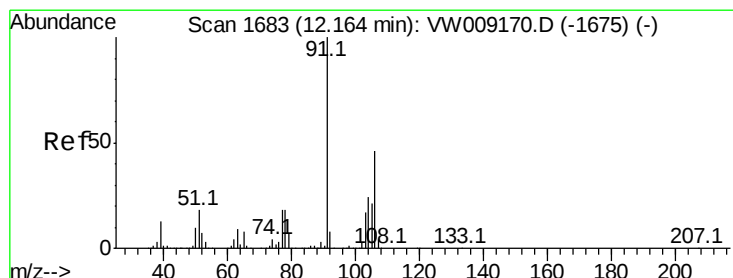
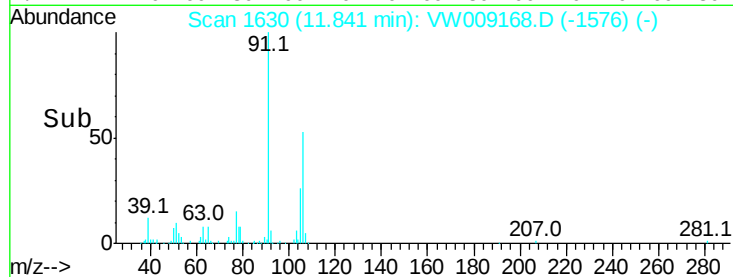
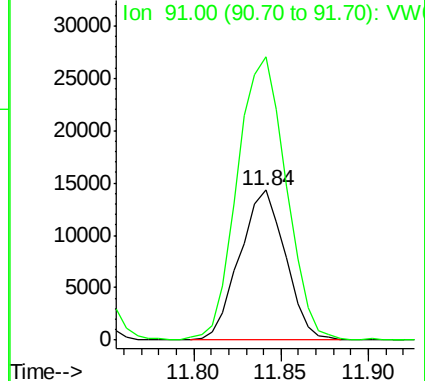
Ion Ratio Lower Upper

106 100

91 189.0 138.4 257.0



Abundance Ion 106.00 (105.70 to 106.70): V



#55

o-xylene

Concen: 2.008 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW009168.D

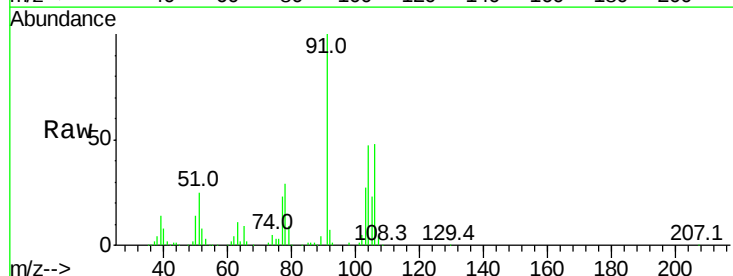
Acq: 14 Mar 2019 14:15

Tgt Ion:106 Resp: 24983

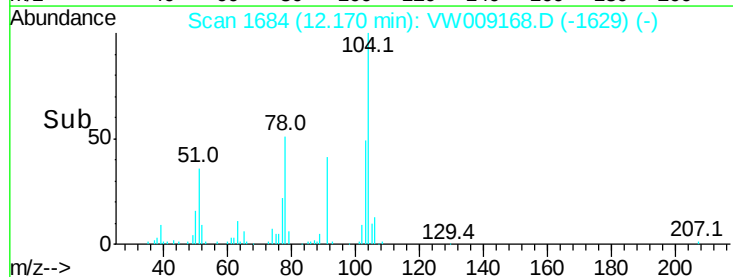
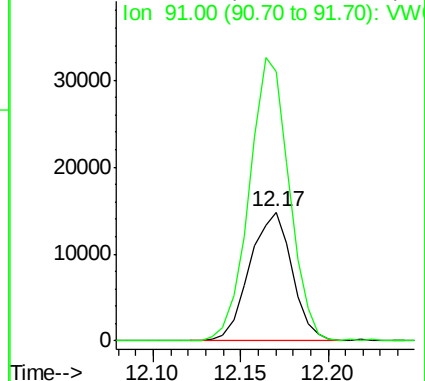
Ion Ratio Lower Upper

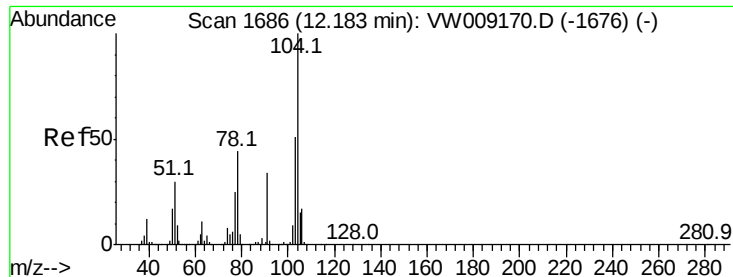
106 100

91 209.4 153.2 284.4



Abundance Ion 106.00 (105.70 to 106.70): V





#56

Styrene

Concen: 1.903 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

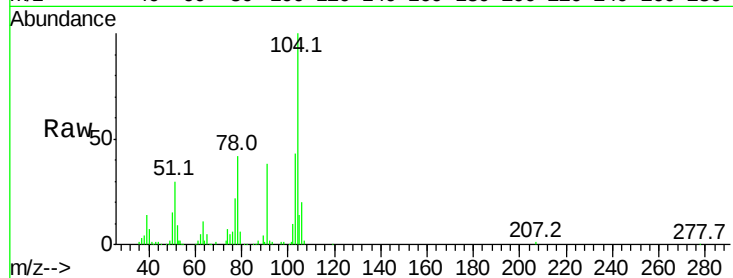
VSTD2.501

Tgt Ion:104 Resp: 39709

Ion Ratio Lower Upper

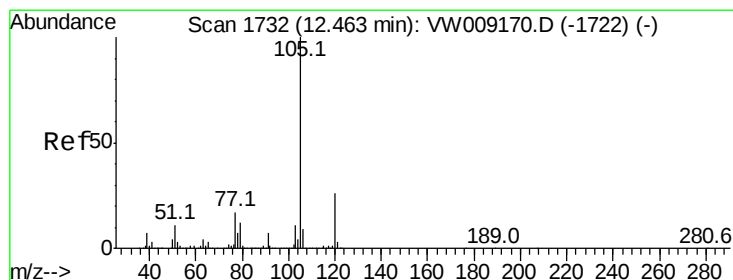
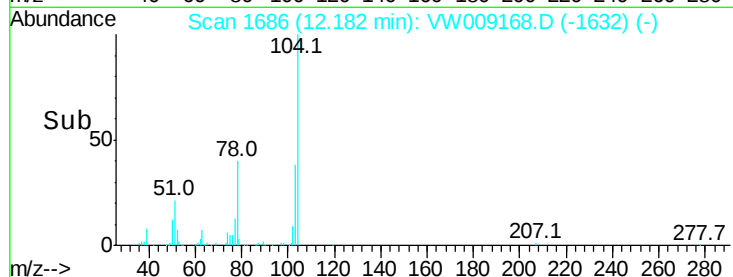
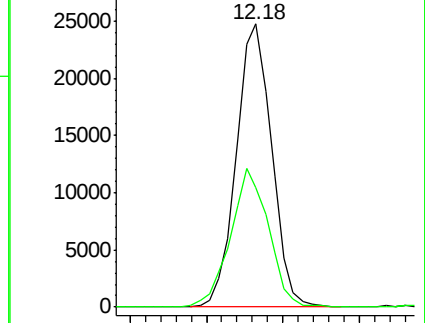
104 100

78 42.4 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 1.899 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

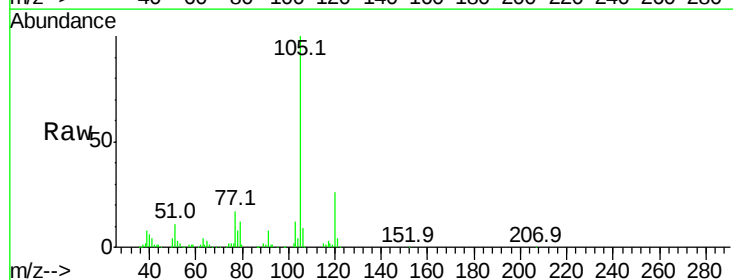
Tgt Ion:105 Resp: 63040

Ion Ratio Lower Upper

105 100

120 27.5 21.3 31.9

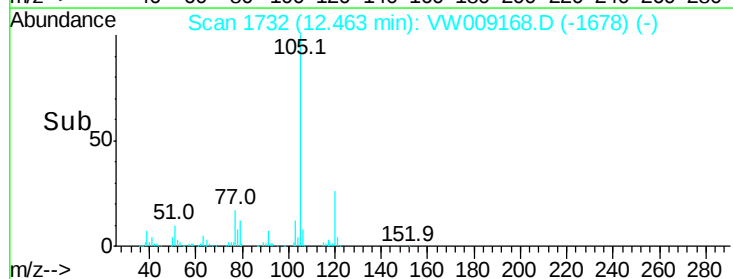
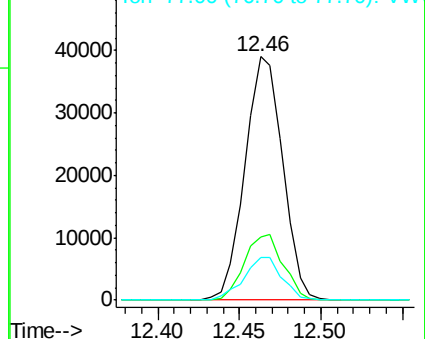
77 17.8 13.1 19.7

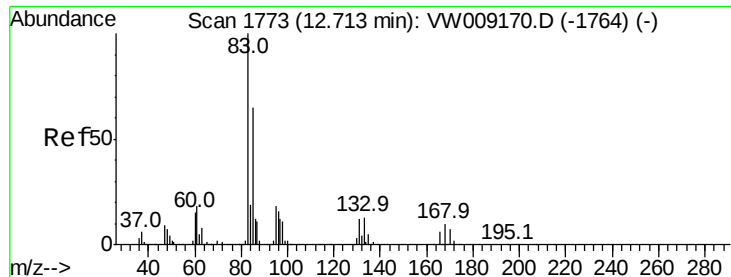


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 2.527 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

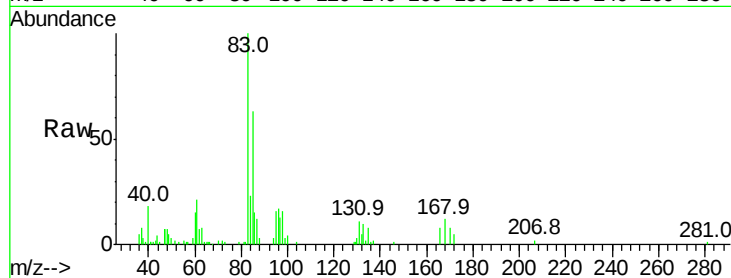
Tgt Ion: 83 Resp: 17241

Ion Ratio Lower Upper

83 100

85 62.8 45.6 84.8

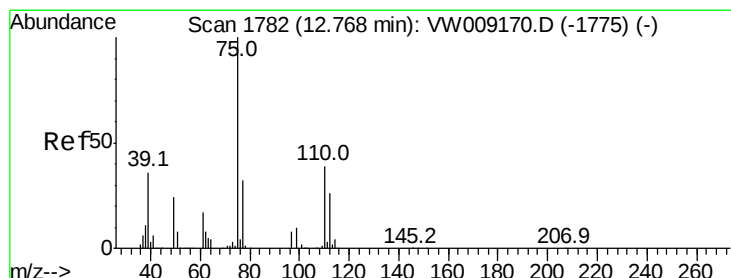
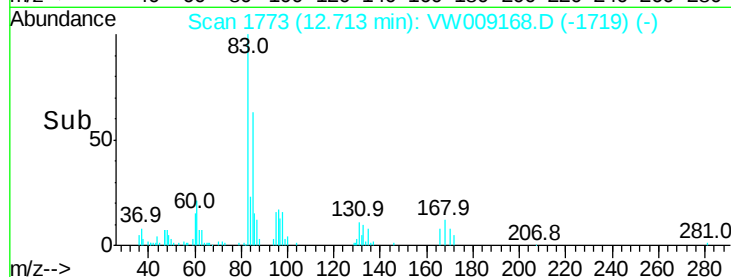
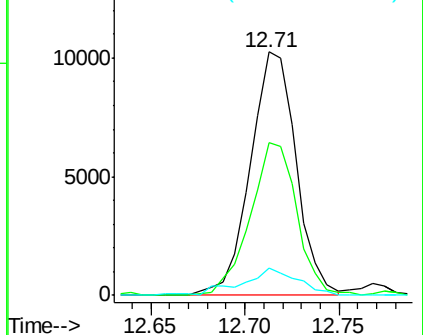
131 11.0 9.2 13.8



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): VW



#59

1,2,3-Trichloropropane

Concen: 2.539 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW009168.D

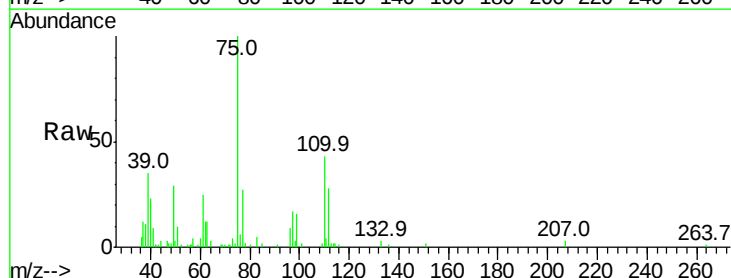
Acq: 14 Mar 2019 14:15

Tgt Ion: 75 Resp: 12810

Ion Ratio Lower Upper

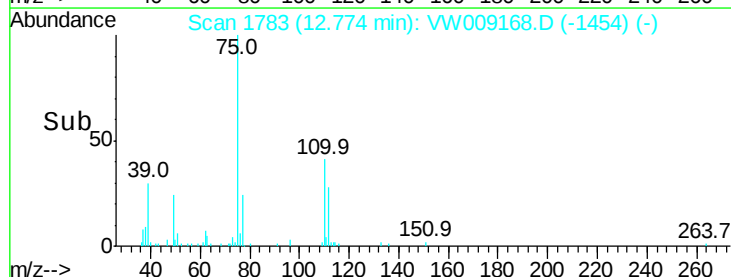
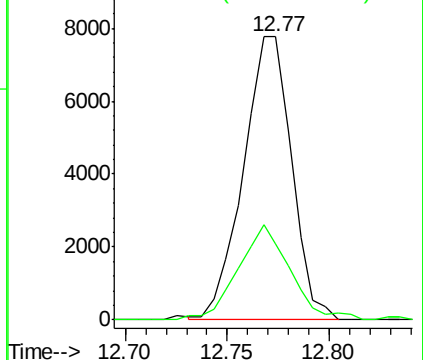
75 100

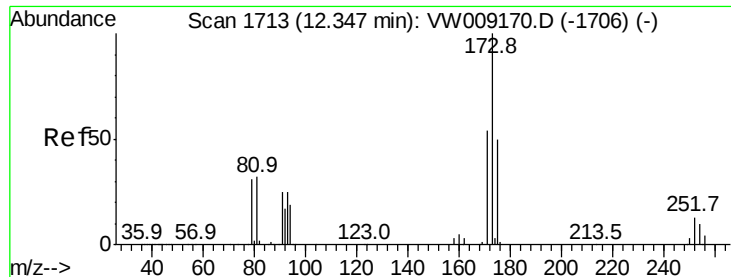
77 35.2 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#62

Bromoform

Concen: 2.571 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

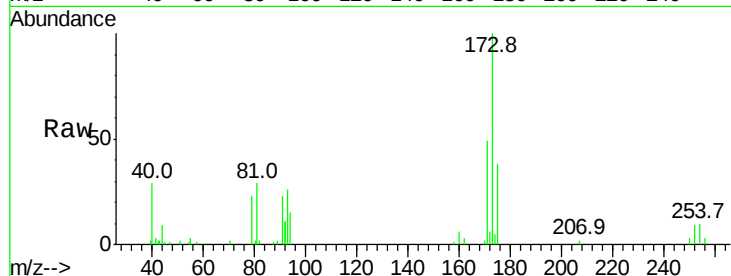
Tgt Ion:173 Resp: 9077

Ion Ratio Lower Upper

173 100

175 49.0 39.7 59.5

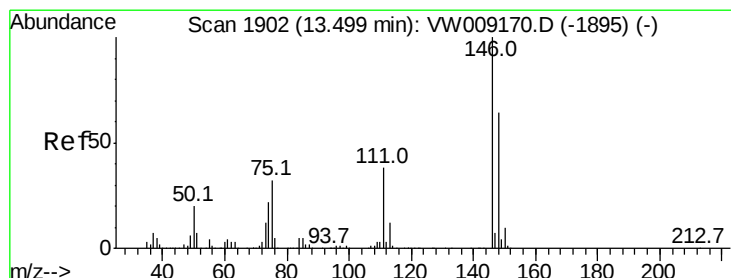
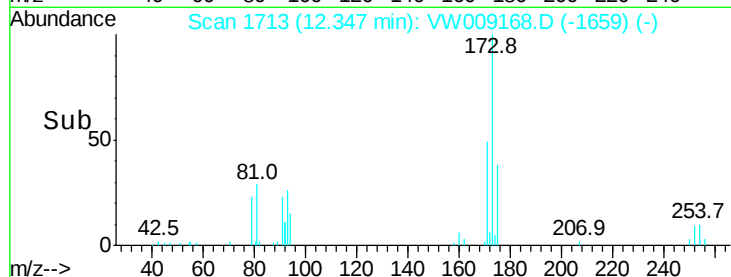
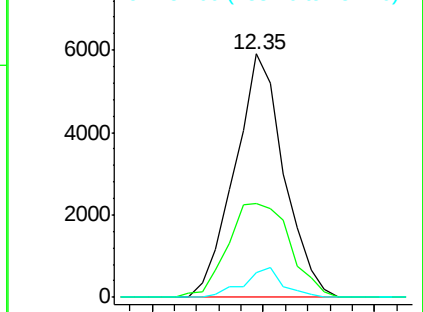
254 9.7 8.5 12.7



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: 2.117 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

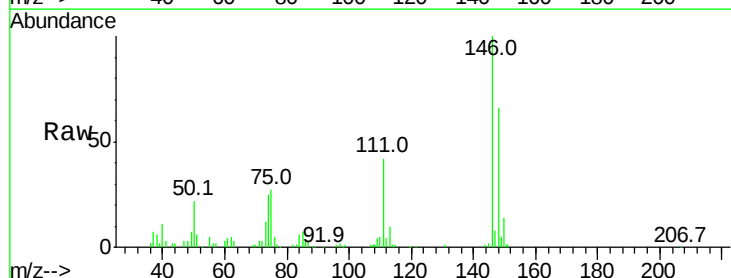
Tgt Ion:146 Resp: 31515

Ion Ratio Lower Upper

146 100

111 41.7 26.9 49.9

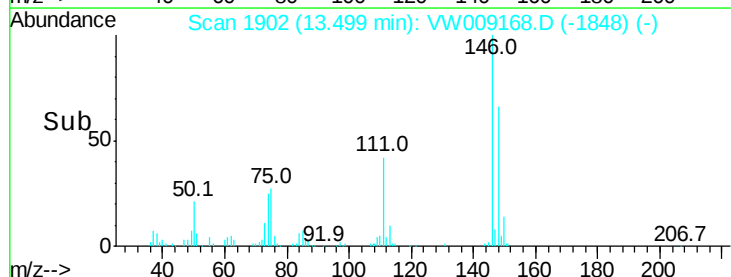
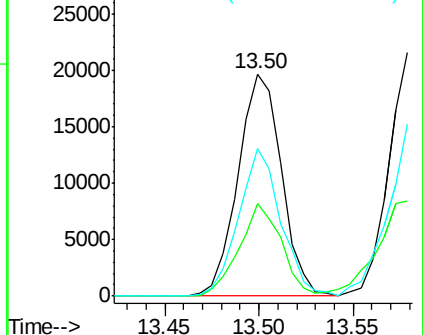
148 66.2 45.1 83.7

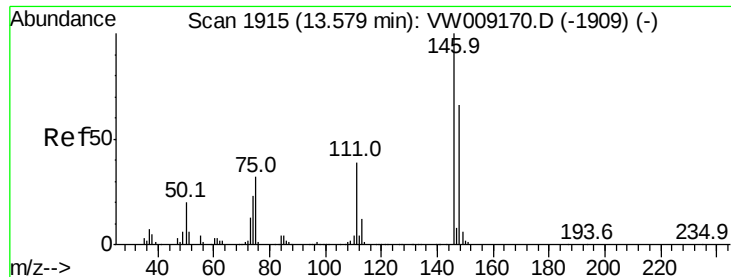


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 2.211 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD2.501

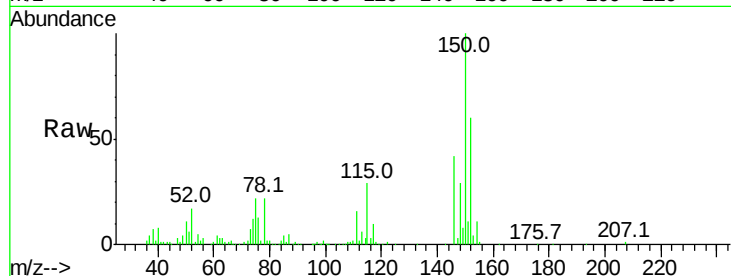
Tgt Ion:146 Resp: 33433

Ion Ratio Lower Upper

146 100

111 39.0 27.8 51.6

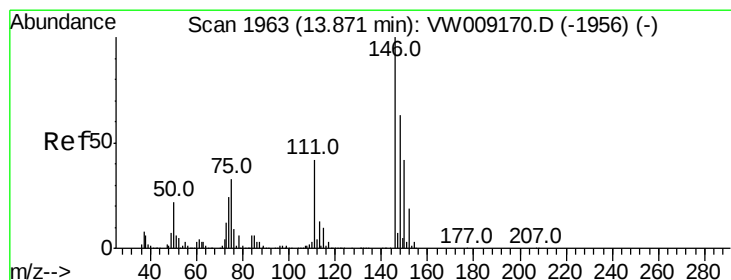
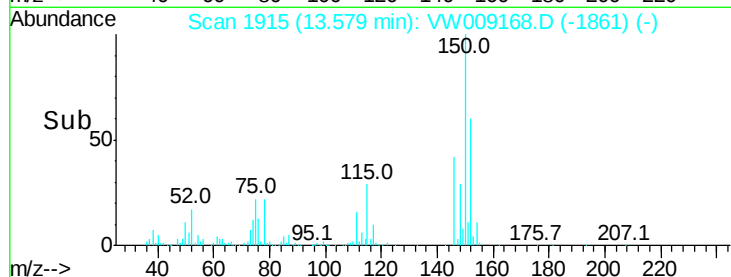
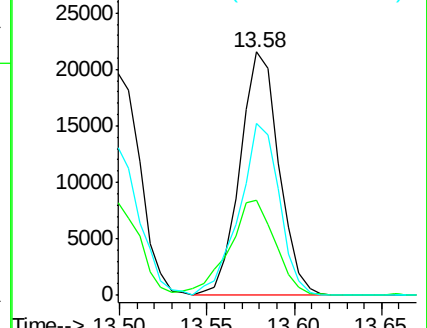
148 70.4 46.3 86.1



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: 2.202 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW009168.D

Acq: 14 Mar 2019 14:15

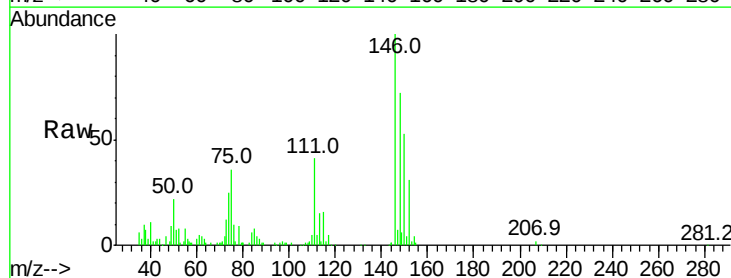
Tgt Ion:146 Resp: 30365

Ion Ratio Lower Upper

146 100

111 41.1 33.5 50.3

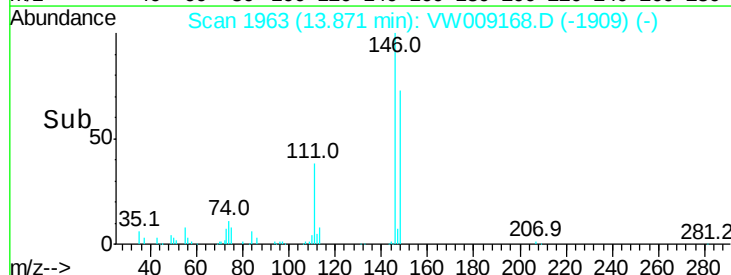
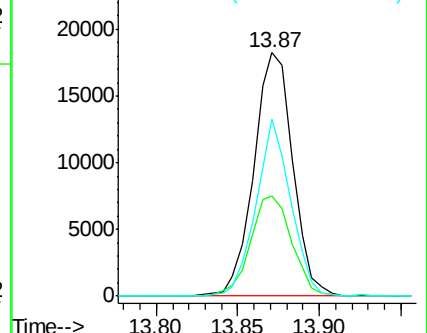
148 72.5 50.2 75.2

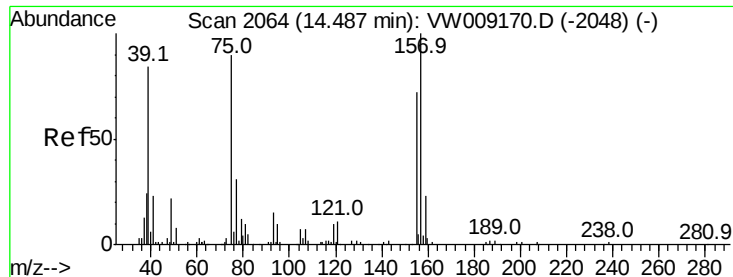


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

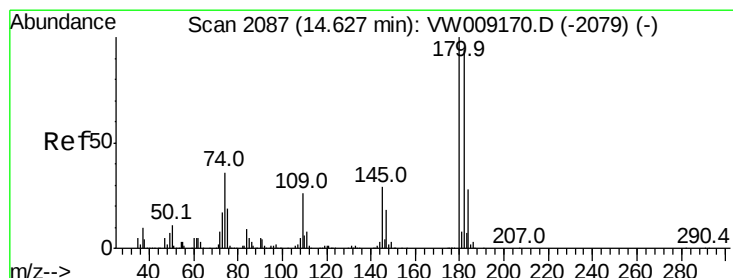
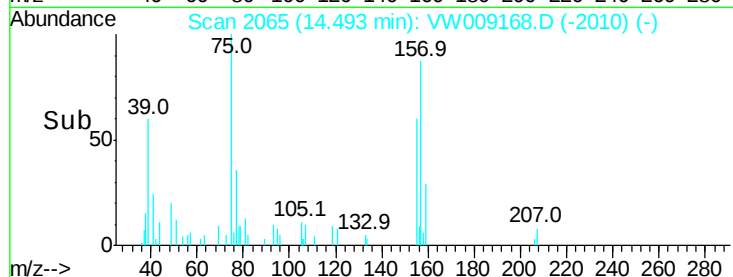
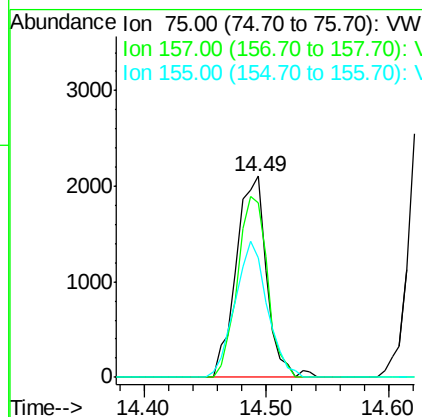
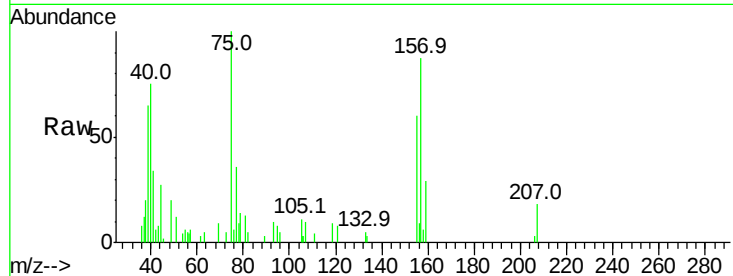




#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.950 ug/L
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.01 min
 Lab File: VW009168.D
 Acq: 14 Mar 2019 14:15

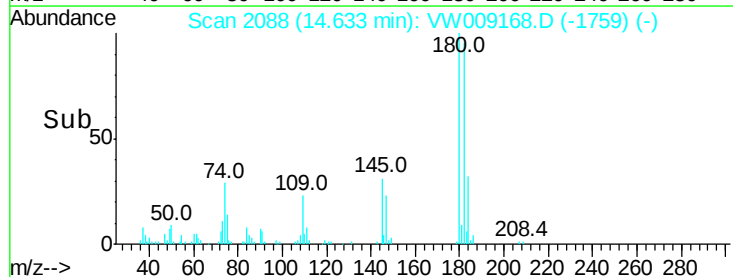
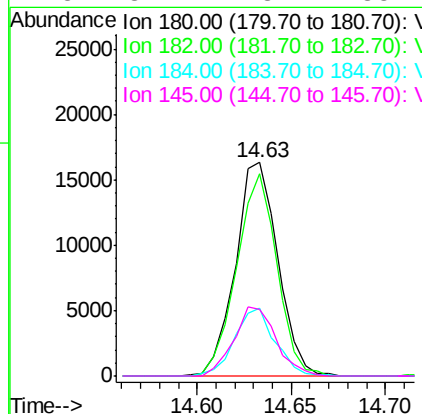
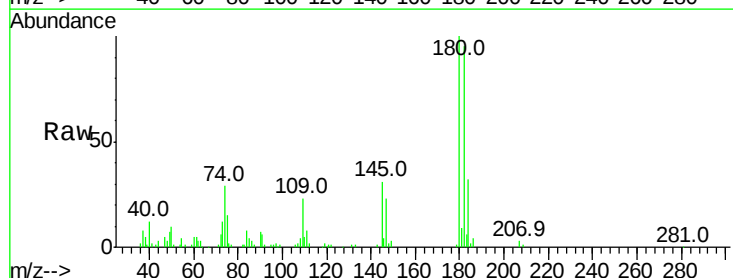
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.501

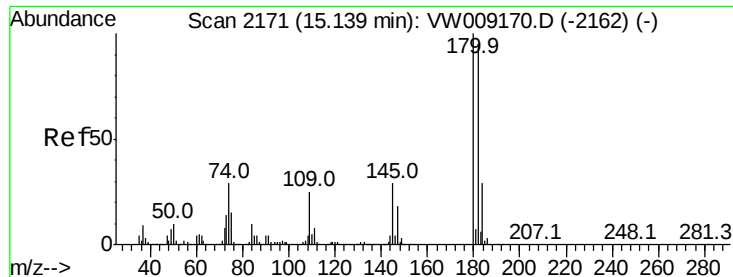
Tgt Ion: 75 Resp: 3612
 Ion Ratio Lower Upper
 75 100
 157 86.6 89.0 133.4#
 155 59.5 64.2 96.2#



#67
 1,3,5-Trichlorobenzene
 Concen: 2.180 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.01 min
 Lab File: VW009168.D
 Acq: 14 Mar 2019 14:15

Tgt Ion: 180 Resp: 25550
 Ion Ratio Lower Upper
 180 100
 182 89.9 76.1 114.1
 184 30.4 23.8 35.6
 145 32.1 23.4 35.2

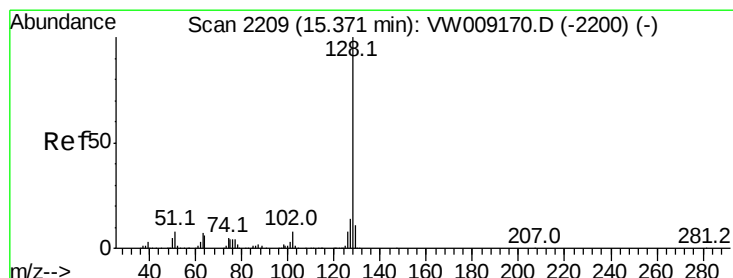
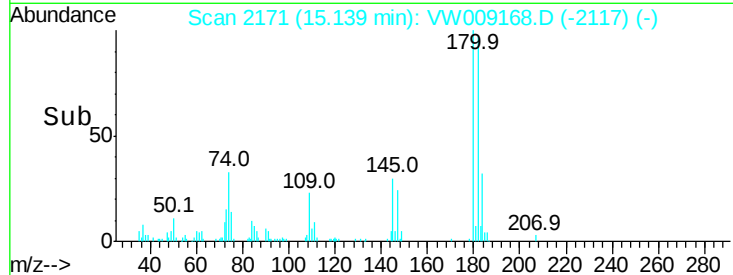
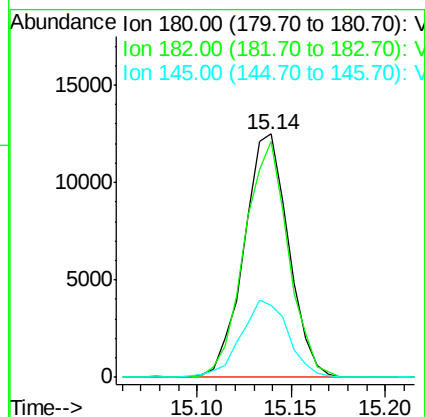
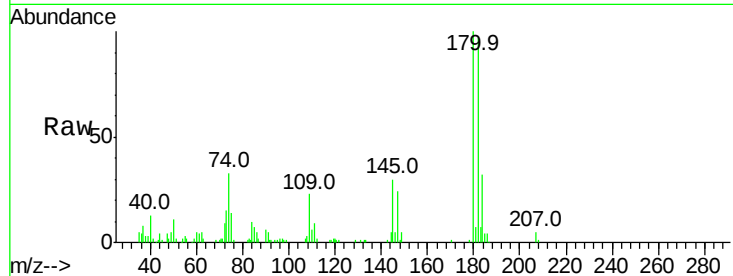




#68
1,2,4-trichlorobenzene
Concen: 2.030 ug/L
RT: 15.14 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VW009168.D
Acq: 14 Mar 2019 14:15

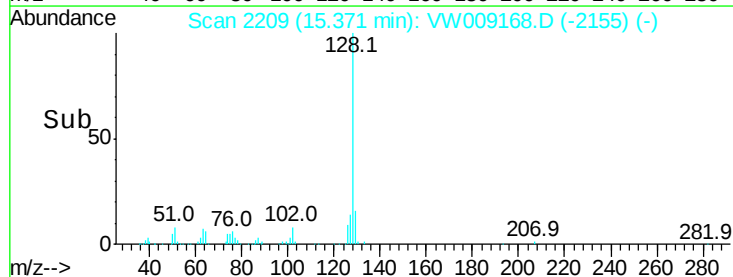
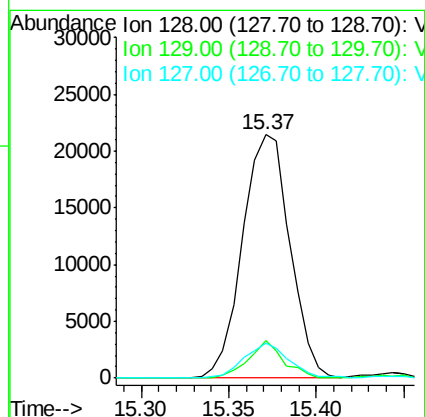
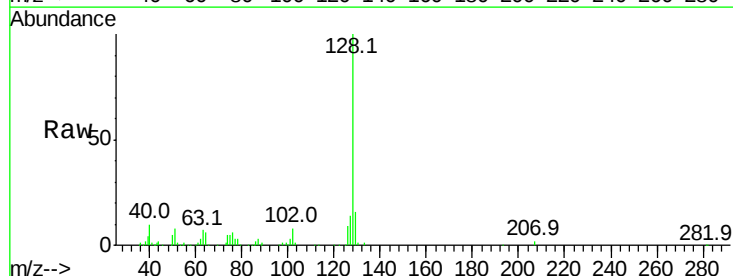
Instrument :
MSVOA_W
ClientSampleId :
VSTD2.501

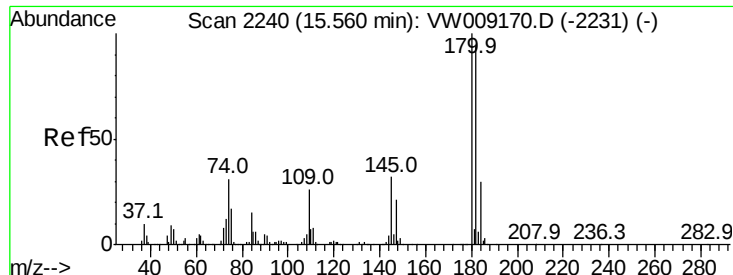
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	75.5	113.3
145	33.7	24.1	36.1



#69
Naphthalene
Concen: 1.946 ug/L
RT: 15.37 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VW009168.D
Acq: 14 Mar 2019 14:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.7	13.1
127	13.6	11.1	16.7

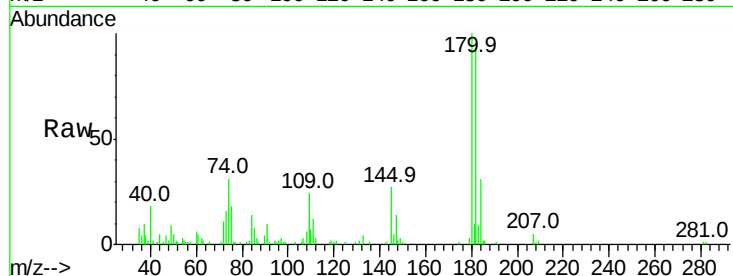




#70
 1,2,3-Trichlorobenzene
 Concen: 2.136 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. -0.00 min
 Lab File: VW009168.D
 Acq: 14 Mar 2019 14:15

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD2.501

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.4	77.2	115.8
145	31.6	25.8	38.6



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

