

Data File : VW009195.D
Acq On : 15 Mar 2019 13:10
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB02

Quant Time: Mar 15 23:22:16 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 15 06:53:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	464836	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	437748	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	232254	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	164746	29.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	118.64%
7) Chloroethane-d5	2.89	69	163172	25.10	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.40%
10) 1,1-Dichloroethene-d2	4.02	63	329481	27.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	109.76%
20) 2-Butanone-d5	7.07	46	111387	48.49	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.98%
24) Chloroform-d	7.65	84	333265	26.27	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.08%
26) 1,2-Dichloroethane-d4	8.30	65	197308	25.82	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.28%
29) Benzene-d6	8.27	84	641108	26.56	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	106.24%
33) 1,2-Dichloropropane-d6	9.27	67	191635	26.43	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.72%
37) Toluene-d8	10.32	98	598832	26.83	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.32%
38) trans-1,3-Dichloropropene-	10.57	79	95311	26.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.68%
39) 2-Hexanone-d5	10.93	63	89865	51.17	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	102.34%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	187924	26.32	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.28%
61) 1,2-Dichlorobenzene-d4	13.86	152	228508	25.66	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.64%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	159089	25.980	ug/L	100
3) Chloromethane	2.22	50	161849	24.912	ug/L	100
5) Vinyl chloride	2.37	62	197828	29.584	ug/L	99
6) Bromomethane	2.78	94	140928	25.155	ug/L	99
8) Chloroethane	2.93	64	136612	24.693	ug/L	94
9) Trichlorofluoromethane	3.26	101	117203	22.188	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	143307	23.493	ug/L #	92
12) 1,1-Dichloroethene	4.04	96	152963	26.723	ug/L	90
13) Acetone	4.12	43	93035	49.385	ug/L	96
14) Carbon disulfide	4.38	76	452439	29.369	ug/L	99
15) Methyl Acetate	4.67	43	86563	23.390	ug/L	96
16) Methylene chloride	4.92	84	159733	23.564	ug/L	94
17) Methyl tert-butyl Ether	5.42	73	187446	23.144	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	153779	25.553	ug/L	99
19) 1,1-Dichloroethane	6.21	63	275553	25.112	ug/L	97
21) 2-Butanone	7.17	43	124796	47.977	ug/L	100
22) cis-1,2-Dichloroethene	7.16	96	163166	25.028	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Fri Mar 15 06:53:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	77362	24.741	ug/L	95
25) Chloroform	7.67	83	293295	25.523	ug/L	99
27) 1,2-Dichloroethane	8.40	62	210459	24.564	ug/L	100
30) Cyclohexane	7.95	56	261985	26.352	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	226708	25.931	ug/L	98
32) Carbon tetrachloride	8.06	117	239473	27.148	ug/L	98
34) Benzene	8.32	78	620183	25.884	ug/L	100
35) Trichloroethene	9.09	95	163981	25.685	ug/L	99
36) Methylcyclohexane	9.34	83	286446	25.933	ug/L	99
40) 1,2-Dichloropropane	9.37	63	153081	24.898	ug/L	99
41) Bromodichloromethane	9.64	83	210870	24.753	ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	250590	25.024	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	254209	45.628	ug/L	99
44) Toluene	10.38	91	668182	25.506	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	215779	24.771	ug/L	100
46) 1,1,2-Trichloroethane	10.79	97	122150	24.903	ug/L	98
47) Tetrachloroethene	10.86	164	138041	25.589	ug/L	97
49) 2-Hexanone	10.97	43	195251	49.759	ug/L	98
50) Dibromochloromethane	11.13	129	151574	25.032	ug/L	93
51) 1,2-Dibromoethane	11.23	107	124007	24.938	ug/L	90
52) Chlorobenzene	11.66	112	423373	25.198	ug/L	99
53) Ethylbenzene	11.73	91	764440	25.955	ug/L	100
54) m,p-Xylene	11.84	106	288914	25.820	ug/L	98
55) o-xylene	12.16	106	276056	25.289	ug/L	99
56) Styrene	12.18	104	477838	25.656	ug/L	96
57) Isopropylbenzene	12.46	105	760520	26.008	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	161970	24.477	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	119431	24.320	ug/L	98
62) Bromoform	12.35	173	94875	24.177	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	338136	24.428	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	357716	24.996	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	326470	24.731	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	28523	22.047	ug/L	95
67) 1,3,5-Trichlorobenzene	14.63	180	269937	25.002	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	230560	25.423	ug/L	99
69) Naphthalene	15.37	128	467225	24.850	ug/L	100
70) 1,2,3-Trichlorobenzene	15.56	180	214725	25.279	ug/L	98

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

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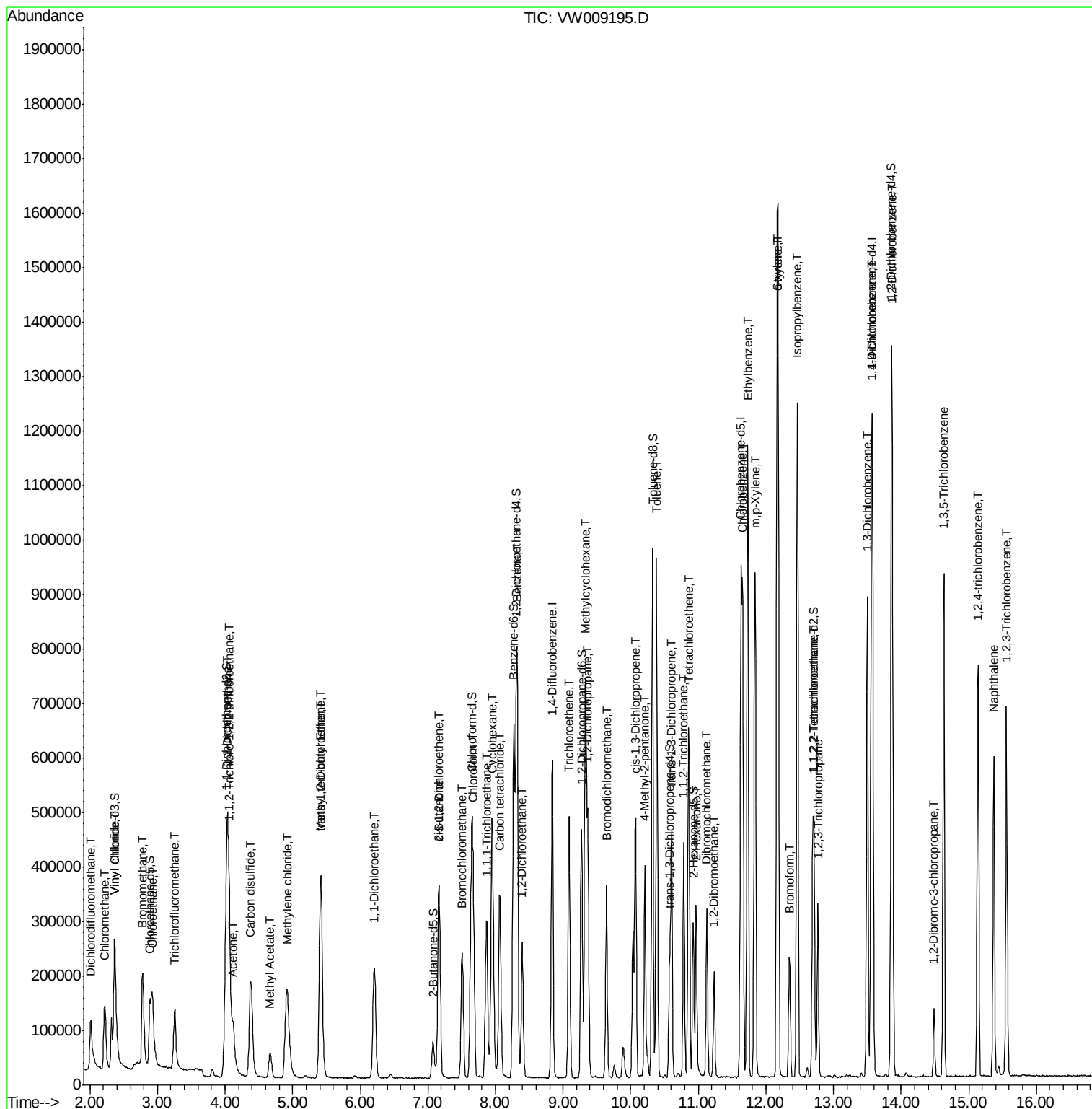
Quant Time: Mar 15 23:22:16 2019

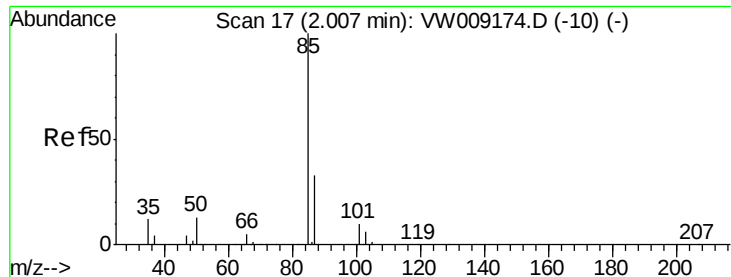
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M

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#2

Dichlorodifluoromethane

Concen: 25.980 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampled :

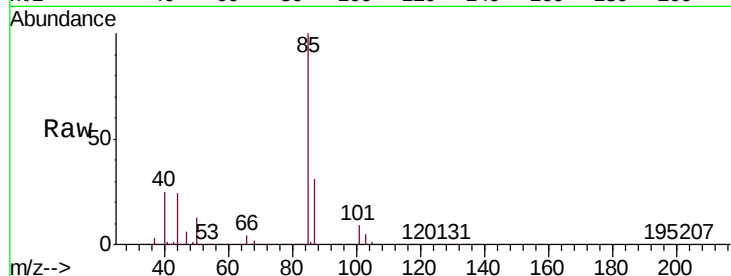
BFB02

Tgt Ion: 85 Resp: 159089

Ion Ratio Lower Upper

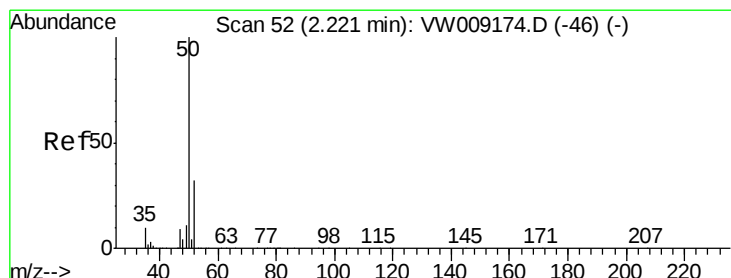
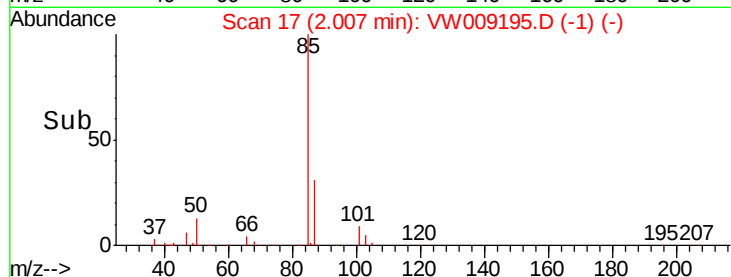
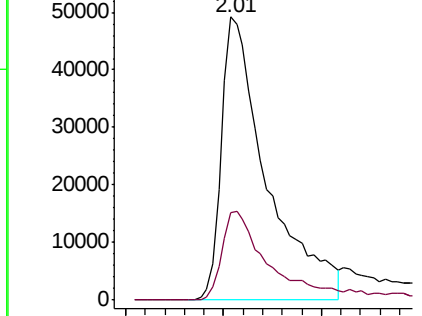
85 100

87 27.8 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: 24.912 ug/L

RT: 2.22 min Scan# 52

Delta R.T. -0.00 min

Lab File: VW009195.D

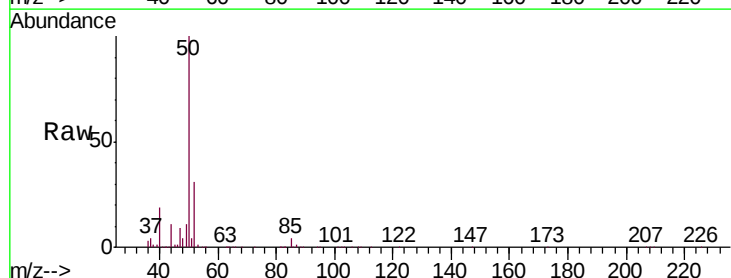
Acq: 15 Mar 2019 13:10

Tgt Ion: 50 Resp: 161849

Ion Ratio Lower Upper

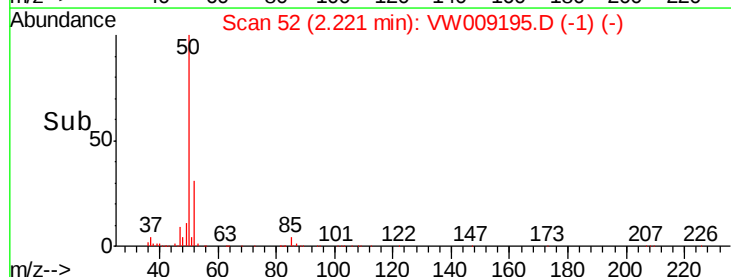
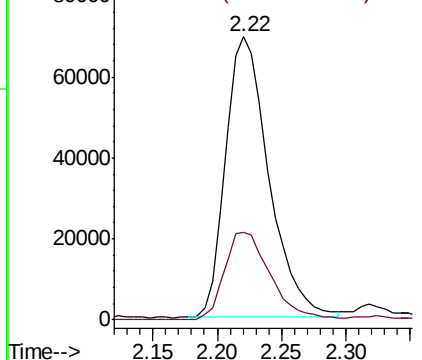
50 100

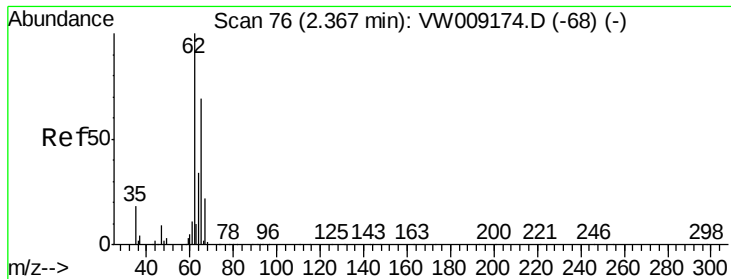
52 31.0 21.6 40.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 29.584 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

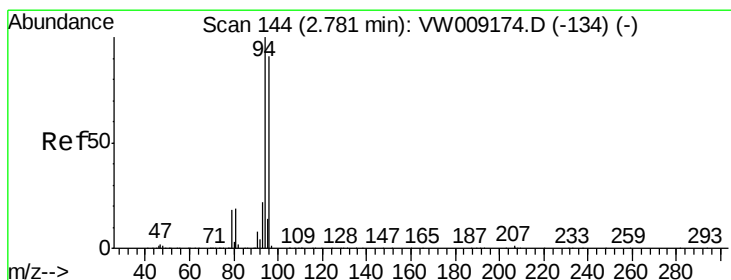
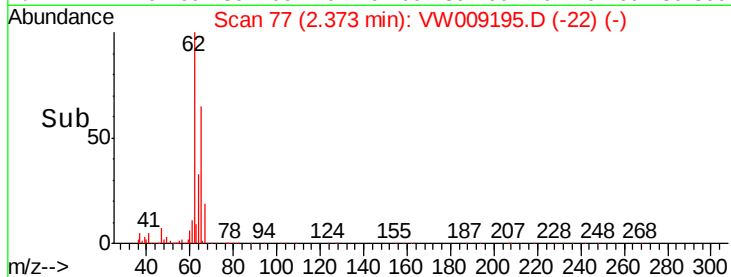
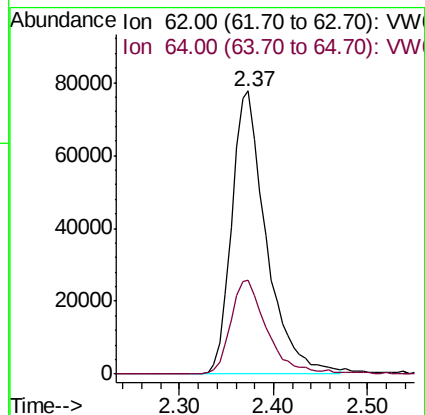
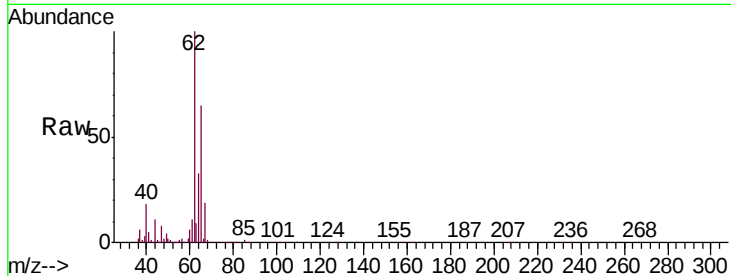
BFB02

Tgt Ion: 62 Resp: 197828

Ion Ratio Lower Upper

62 100

64 33.2 23.0 42.6



#6

Bromomethane

Concen: 25.155 ug/L

RT: 2.78 min Scan# 144

Delta R.T. -0.00 min

Lab File: VW009195.D

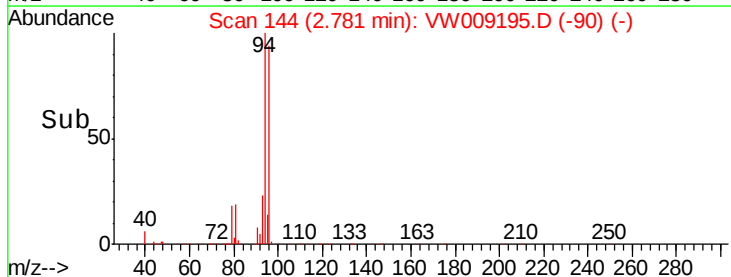
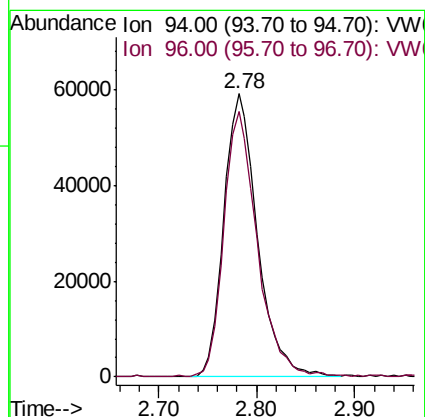
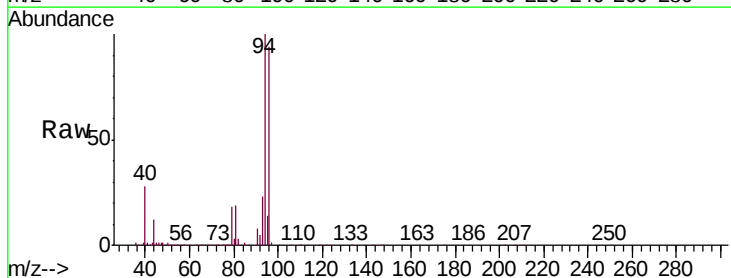
Acq: 15 Mar 2019 13:10

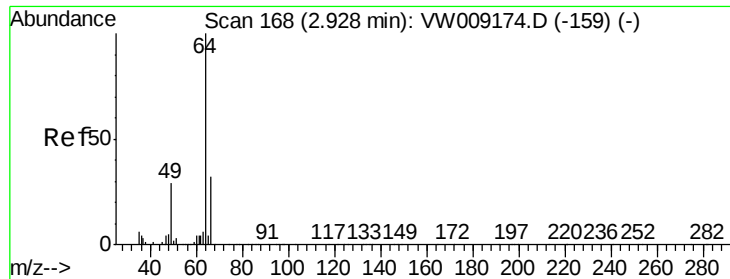
Tgt Ion: 94 Resp: 140928

Ion Ratio Lower Upper

94 100

96 92.6 9.4 178.4





#8

Chloroethane

Concen: 24.693 ug/L

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampled :

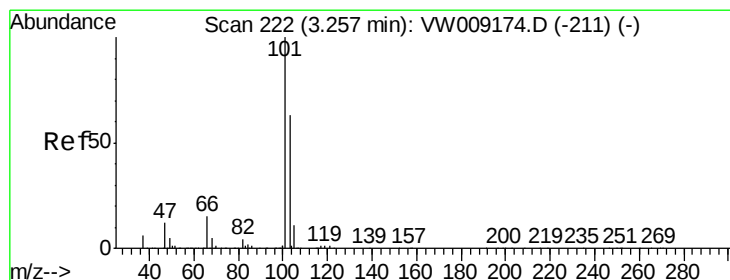
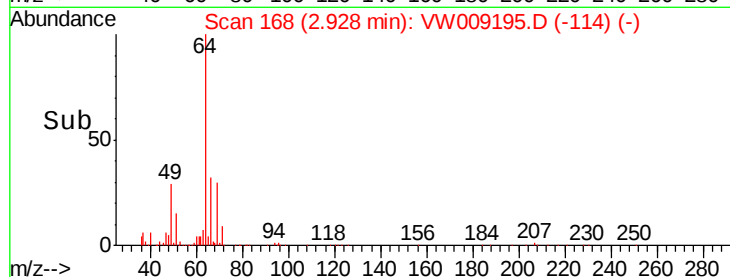
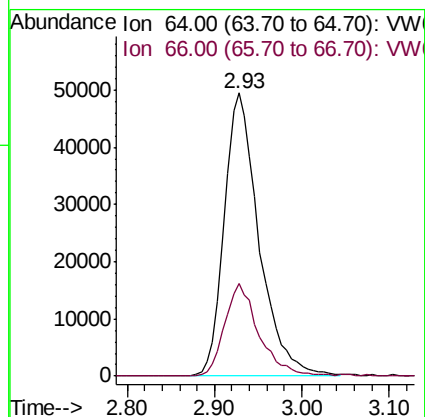
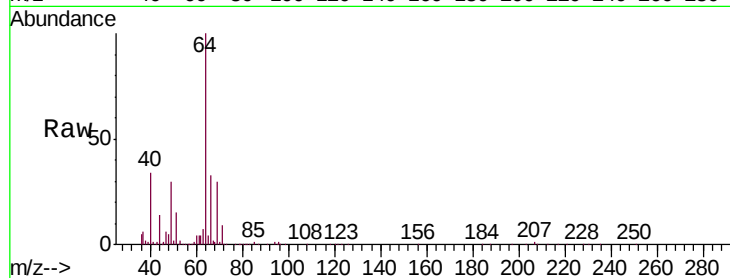
BFB02

Tgt Ion: 64 Resp: 136612

Ion Ratio Lower Upper

64 100

66 32.5 25.1 46.7



#9

Trichlorofluoromethane

Concen: 22.188 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW009195.D

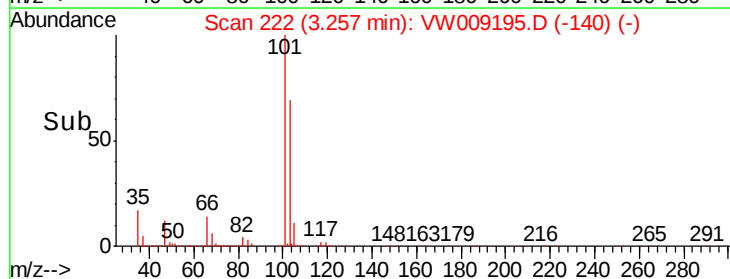
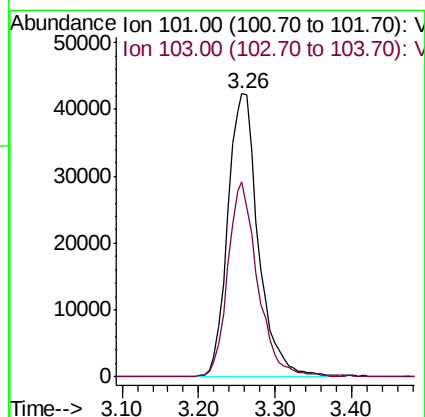
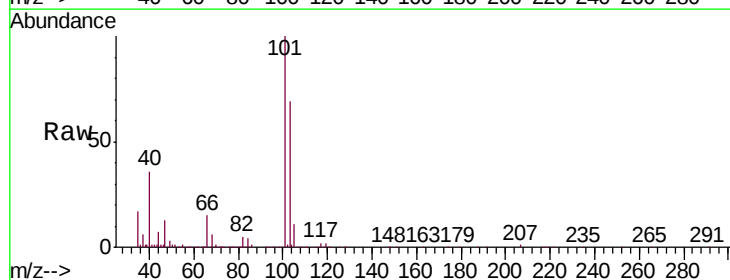
Acq: 15 Mar 2019 13:10

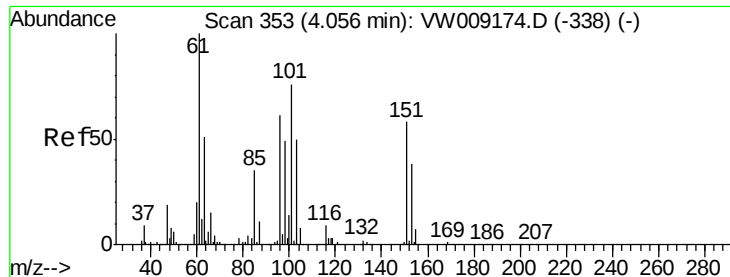
Tgt Ion: 101 Resp: 117203

Ion Ratio Lower Upper

101 100

103 66.8 45.0 83.6





#11

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

Concen: 23.493 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

BFB02

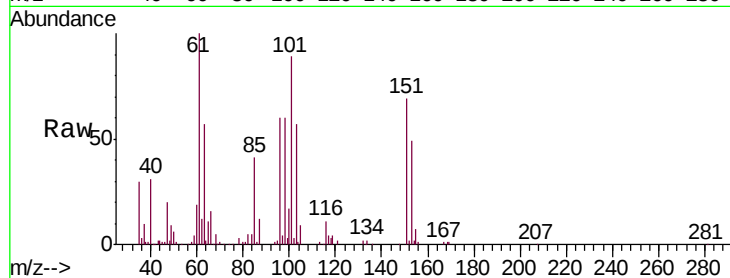
Tgt Ion: 101 Resp: 143307

Ion Ratio Lower Upper

101 100

85 49.9 32.6 48.8#

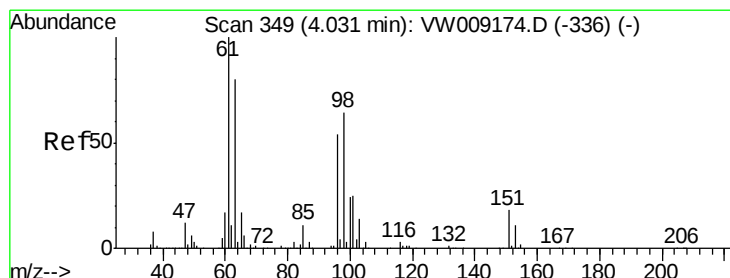
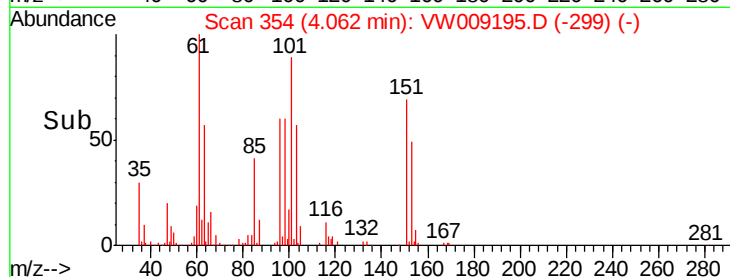
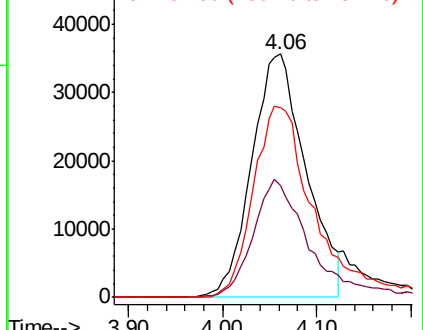
151 83.6 63.3 94.9



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: 26.723 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

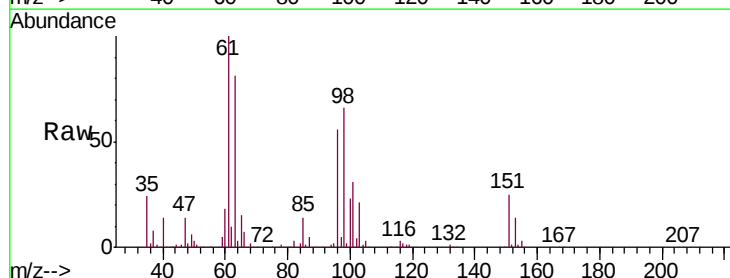
Tgt Ion: 96 Resp: 152963

Ion Ratio Lower Upper

96 100

61 178.2 129.4 240.2

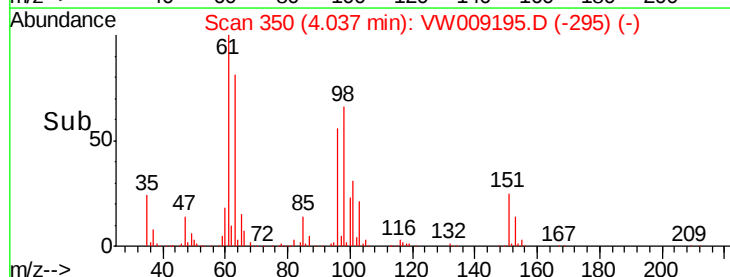
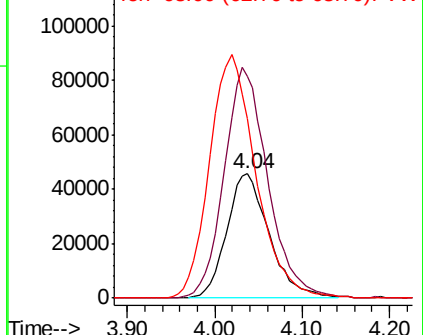
63 144.5 116.8 217.0

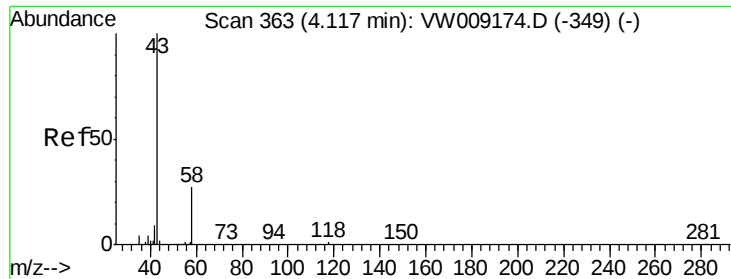


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 49.385 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

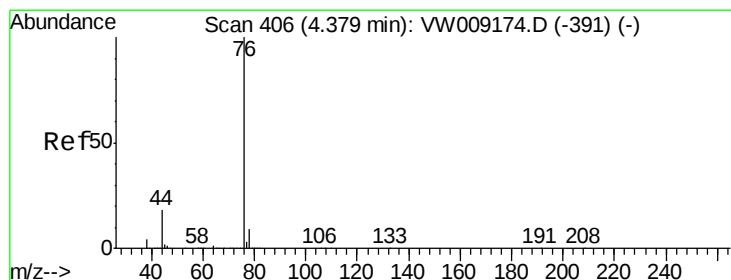
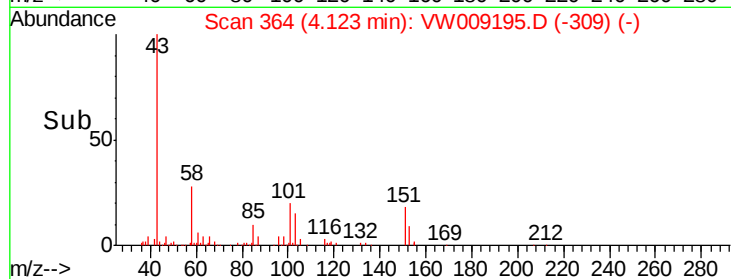
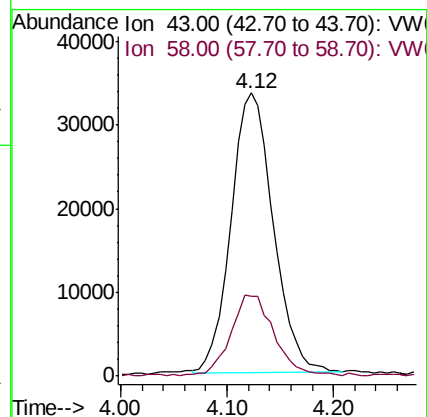
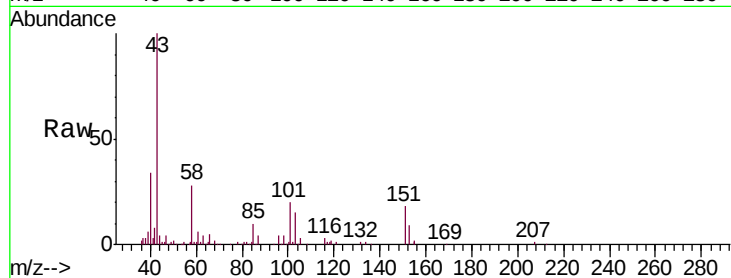
BFB02

Tgt Ion: 43 Resp: 93035

Ion Ratio Lower Upper

43 100

58 30.0 0.0 56.2



#14

Carbon disulfide

Concen: 29.369 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW009195.D

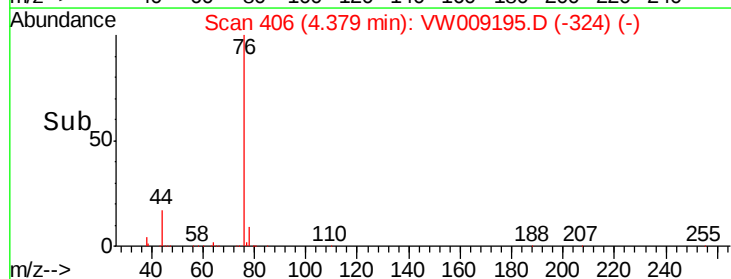
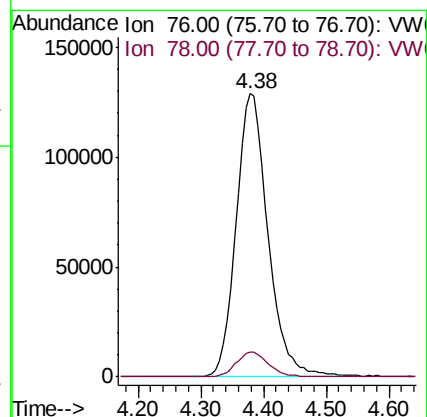
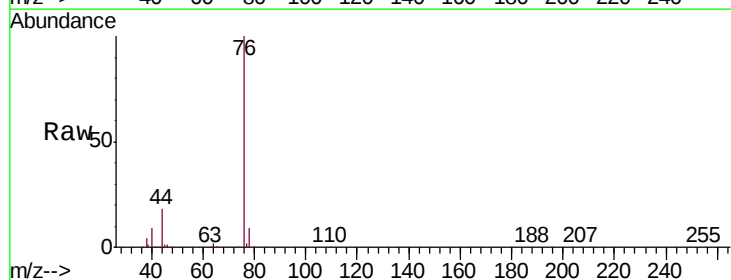
Acq: 15 Mar 2019 13:10

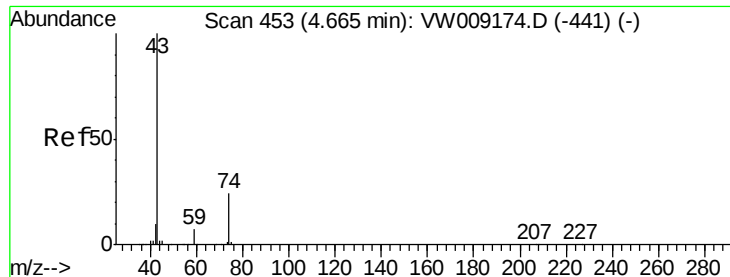
Tgt Ion: 76 Resp: 452439

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9

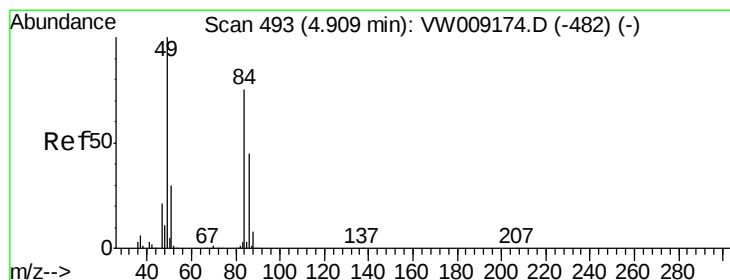
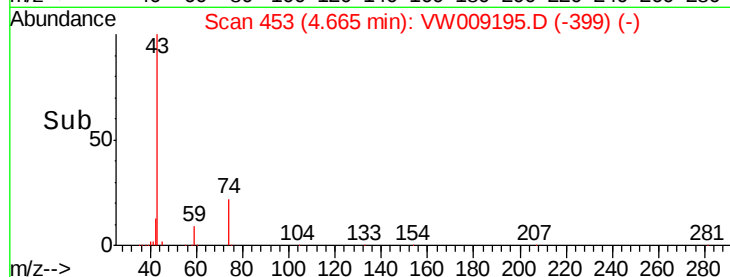
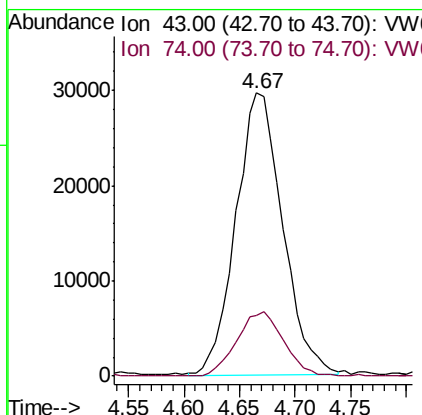
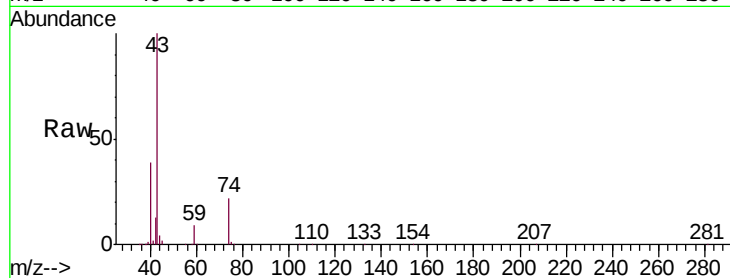




#15
Methyl Acetate
Concen: 23.390 ug/L
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW009195.D
Acq: 15 Mar 2019 13:10

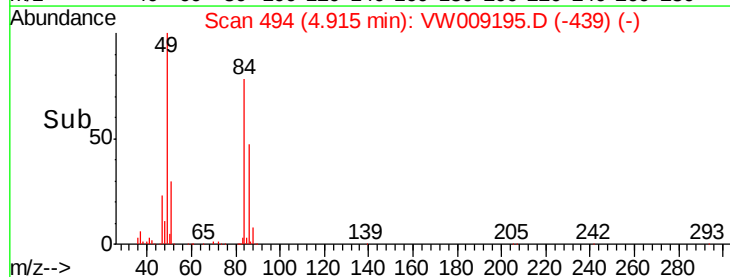
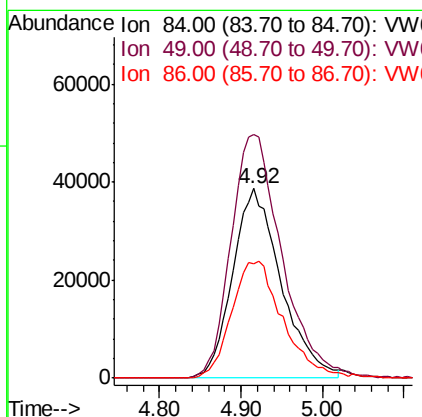
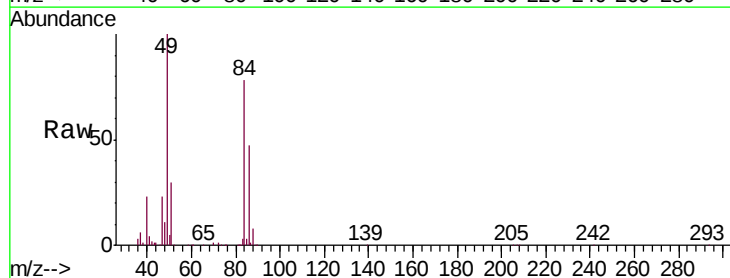
Instrument :
MSVOA_W
ClientSampleId :
BFB02

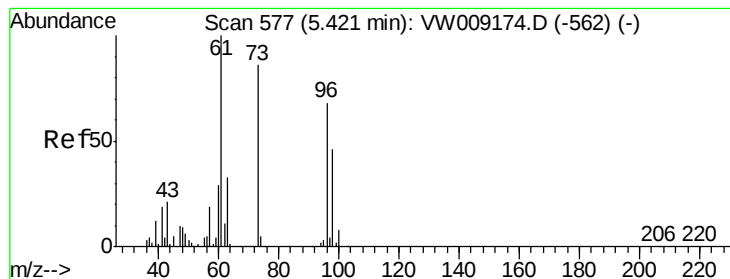
Tgt Ion: 43 Resp: 86563
Ion Ratio Lower Upper
43 100
74 22.9 16.7 25.1



#16
Methylene chloride
Concen: 23.564 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW009195.D
Acq: 15 Mar 2019 13:10

Tgt Ion: 84 Resp: 159733
Ion Ratio Lower Upper
84 100
49 128.5 96.0 178.2
86 60.1 44.4 82.5





#17

Methyl tert-butyl Ether

Concen: 23.144 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampled :

BFB02

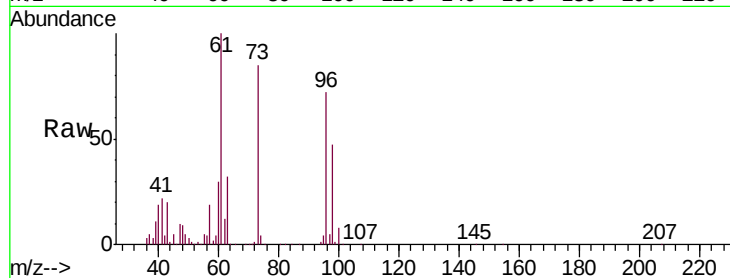
Tgt Ion: 73 Resp: 187446

Ion Ratio Lower Upper

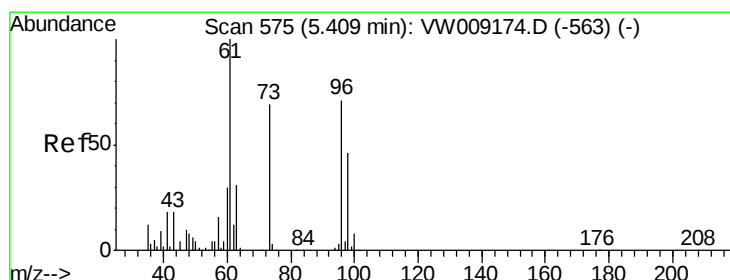
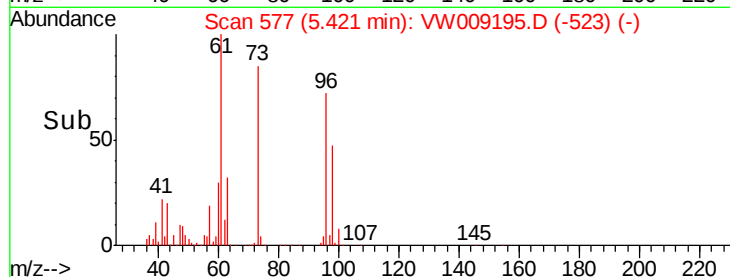
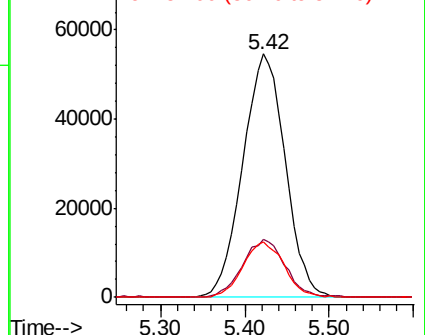
73 100

43 24.0 18.2 27.4

57 22.2 17.8 26.8



Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 25.553 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.01 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

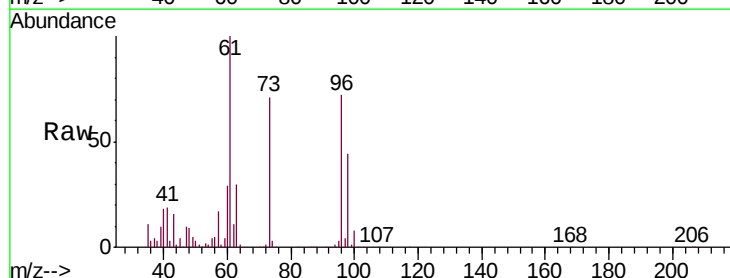
Tgt Ion: 96 Resp: 153779

Ion Ratio Lower Upper

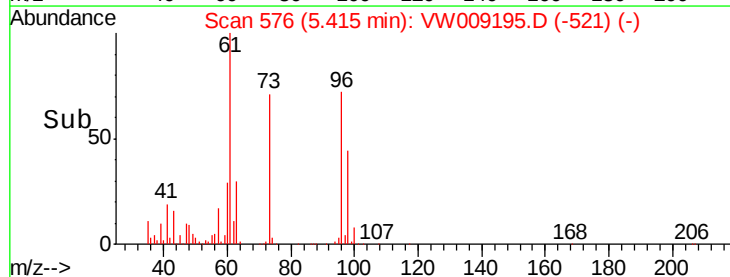
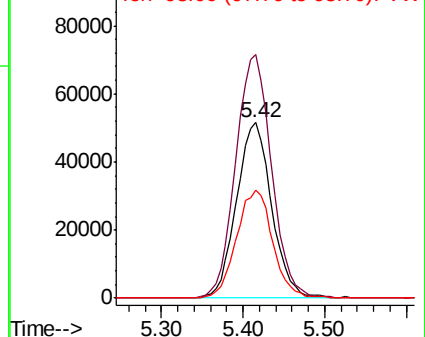
96 100

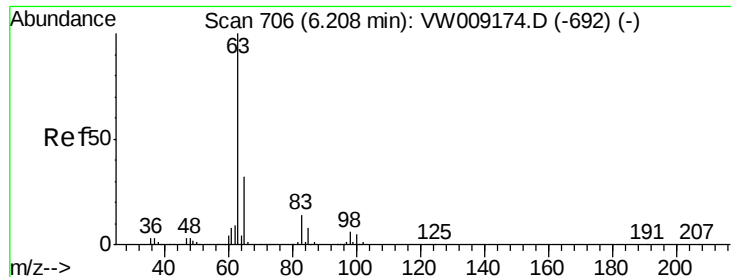
61 138.8 96.7 179.5

98 61.7 43.8 81.4



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW

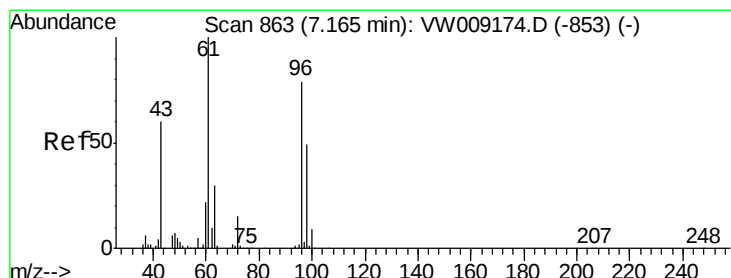
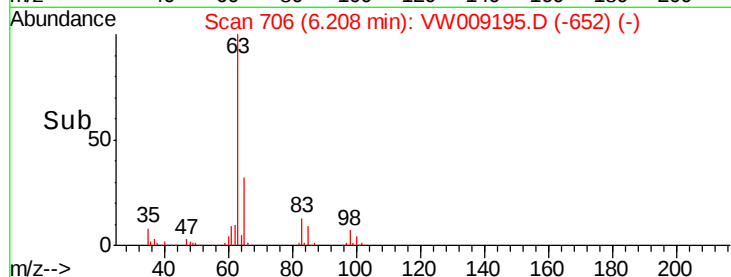
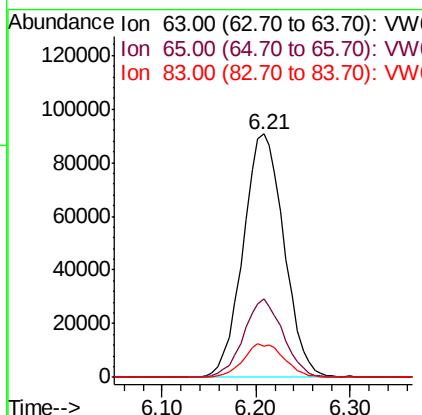
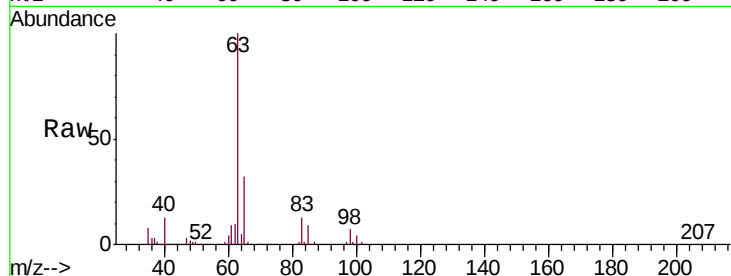




#19
 1,1-Dichloroethane
 Concen: 25.112 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

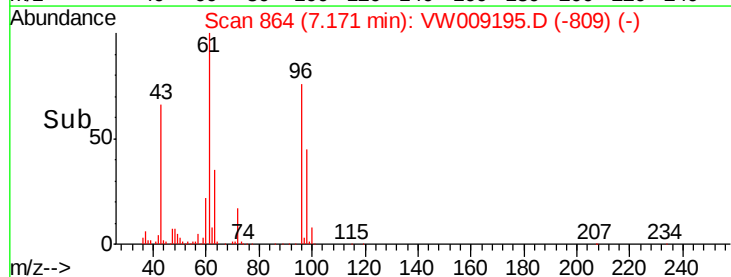
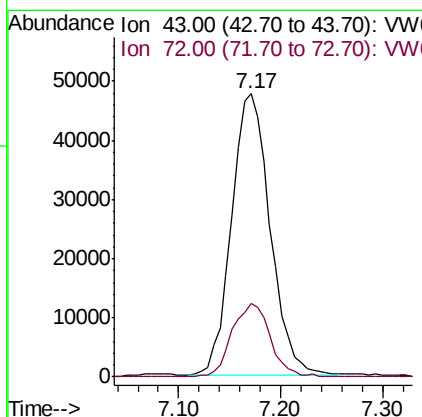
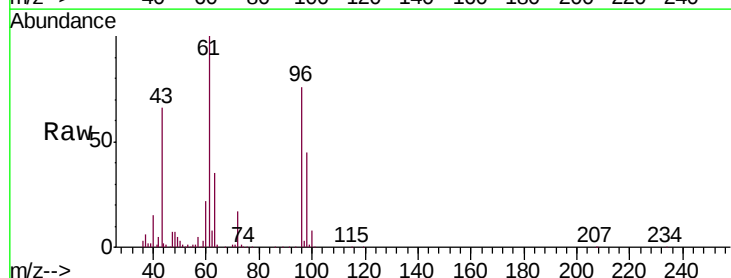
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB02

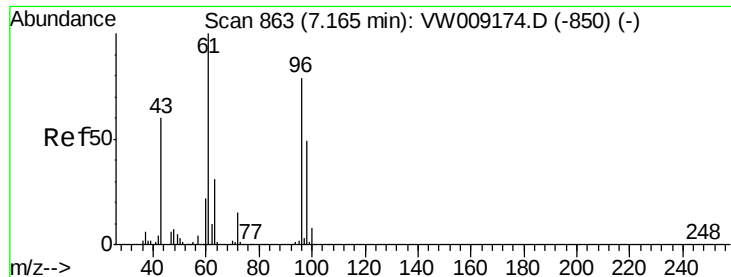
Tgt Ion: 63 Resp: 275553
 Ion Ratio Lower Upper
 63 100
 65 32.3 21.6 40.0
 83 12.9 10.1 18.7



#21
 2-Butanone
 Concen: 47.977 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

Tgt Ion: 43 Resp: 124796
 Ion Ratio Lower Upper
 43 100
 72 25.9 13.1 39.1



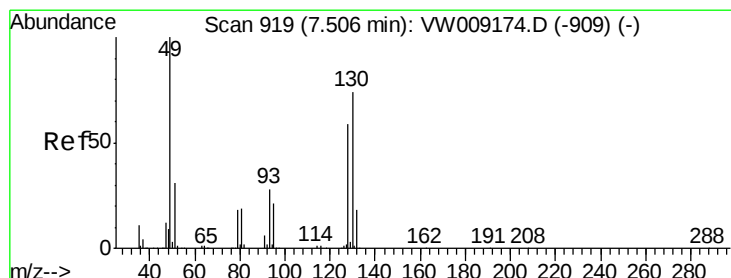
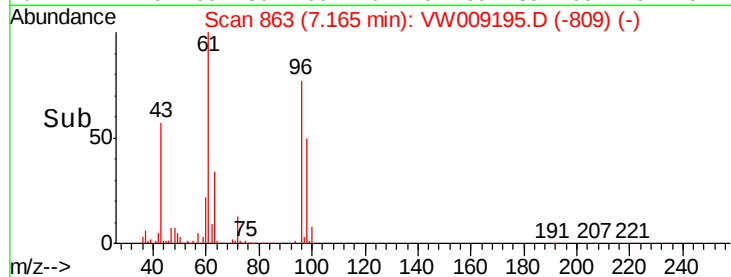
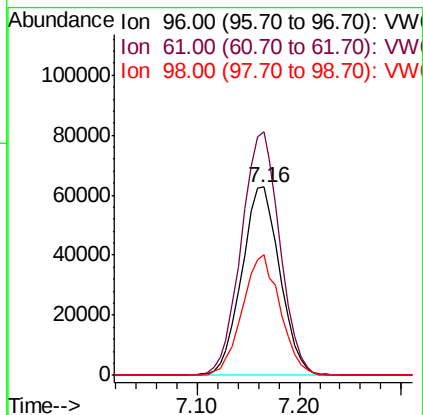
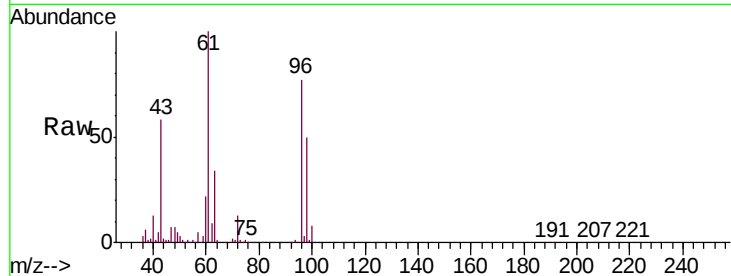


#22

cis-1,2-Dichloroethene
 Concen: 25.028 ug/L
 RT: 7.16 min Scan# 863
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 BFB02

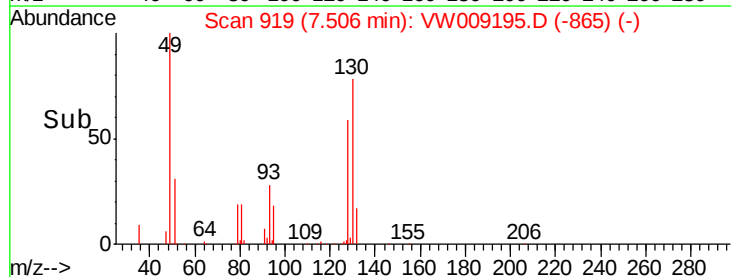
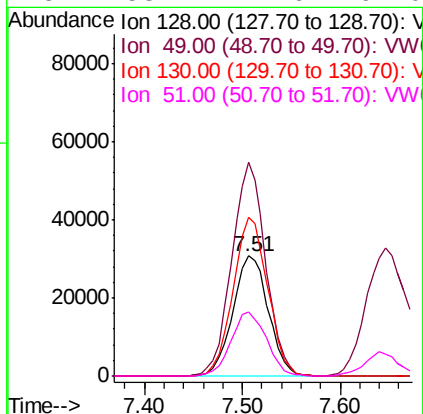
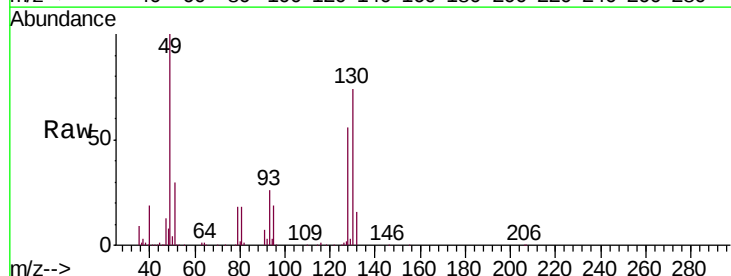
Tgt Ion: 96 Resp: 163166
 Ion Ratio Lower Upper
 96 100
 61 129.1 90.6 168.3
 98 64.0 44.0 81.8

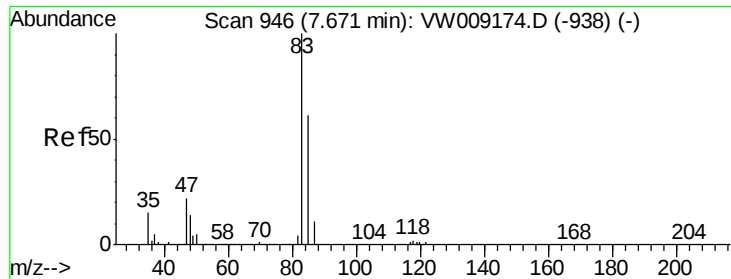


#23

Bromochloromethane
 Concen: 24.741 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

Tgt Ion: 128 Resp: 77362
 Ion Ratio Lower Upper
 128 100
 49 177.7 118.4 219.8
 130 131.7 87.8 163.2
 51 53.7 44.6 67.0





#25

Chloroform

Concen: 25.523 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

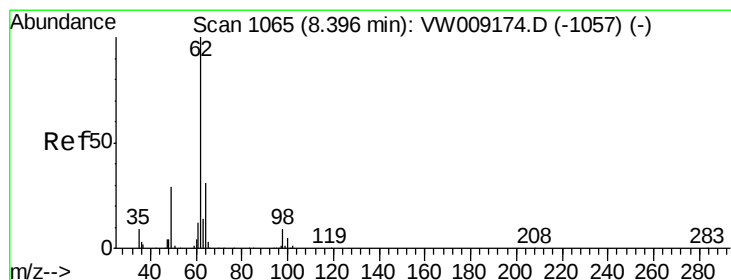
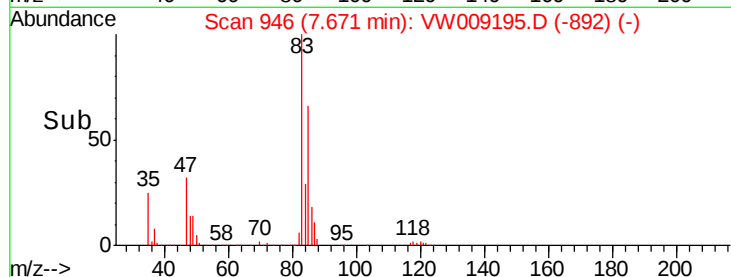
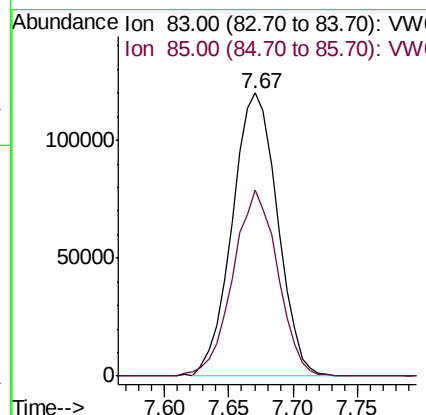
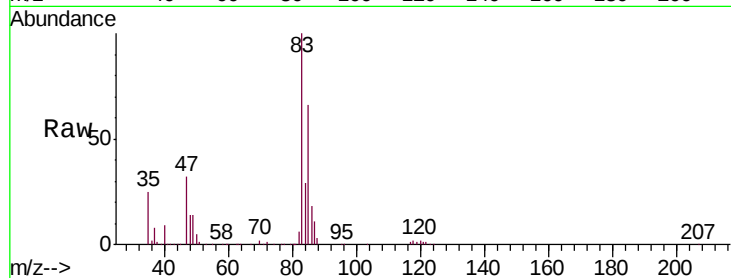
BFB02

Tgt Ion: 83 Resp: 293295

Ion Ratio Lower Upper

83 100

85 65.3 46.0 85.4



#27

1,2-Dichloroethane

Concen: 24.564 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW009195.D

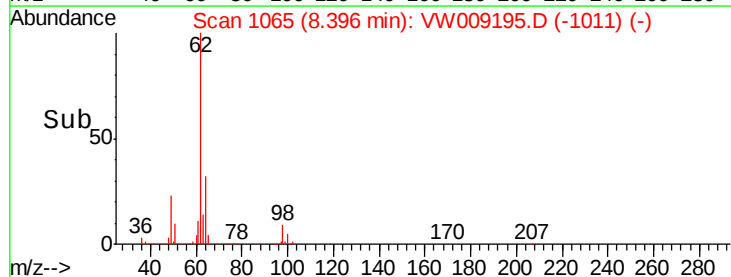
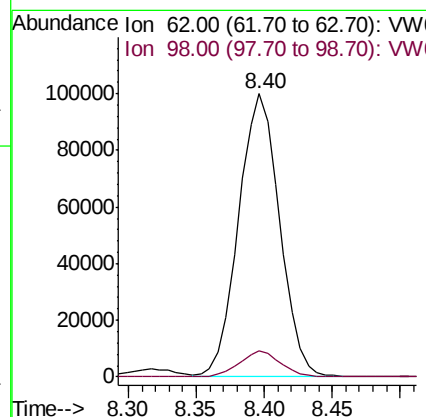
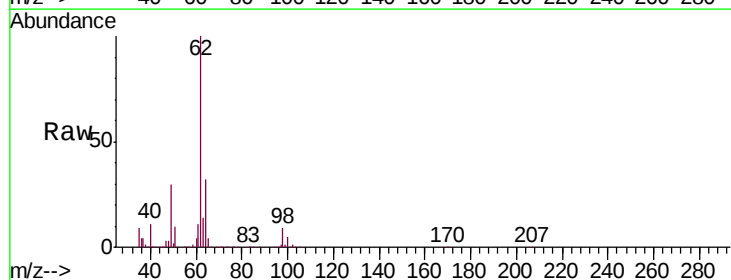
Acq: 15 Mar 2019 13:10

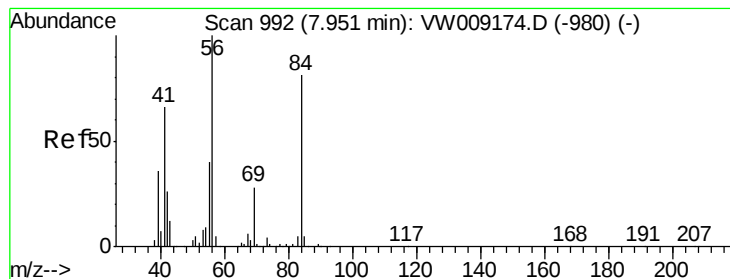
Tgt Ion: 62 Resp: 210459

Ion Ratio Lower Upper

62 100

98 9.2 7.3 10.9





#30

Cyclohexane

Concen: 26.352 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

BFB02

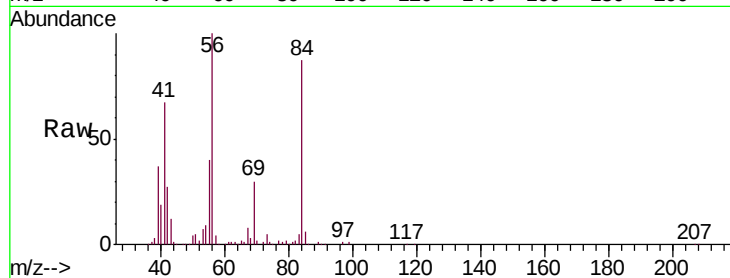
Tgt Ion: 56 Resp: 261985

Ion Ratio Lower Upper

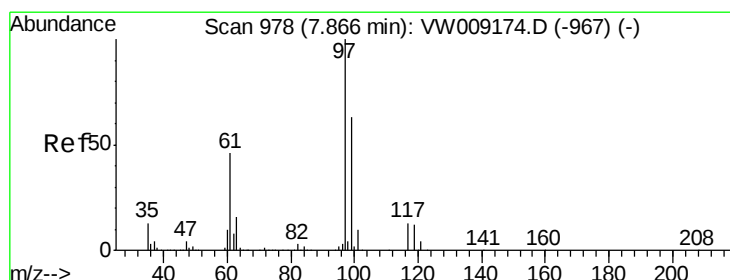
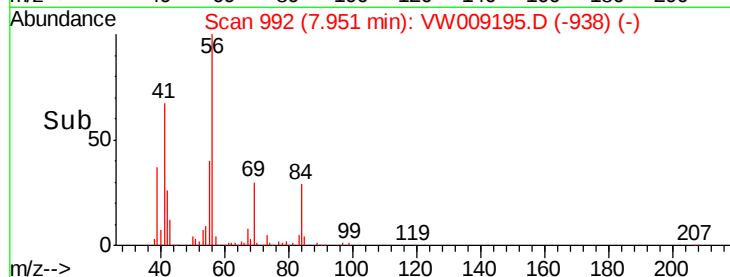
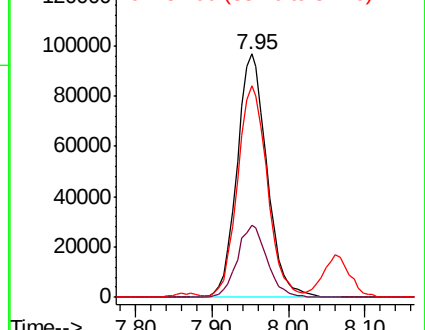
56 100

69 29.6 24.0 36.0

84 86.6 69.2 103.8



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: 25.931 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

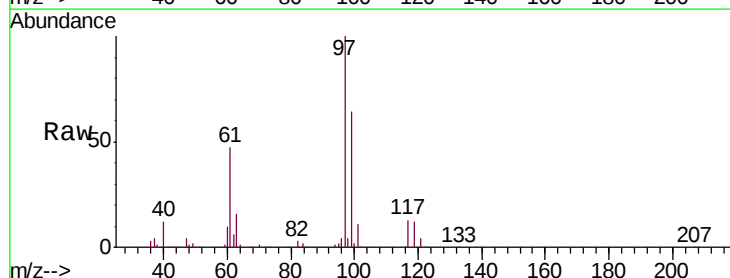
Tgt Ion: 97 Resp: 226708

Ion Ratio Lower Upper

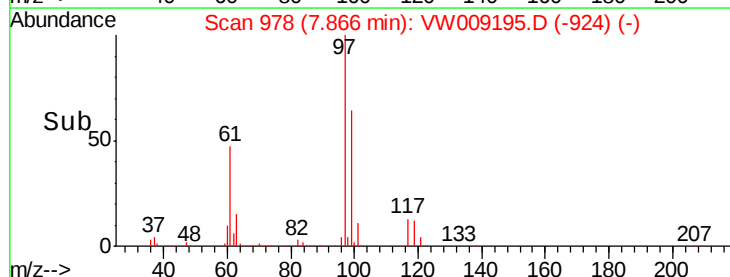
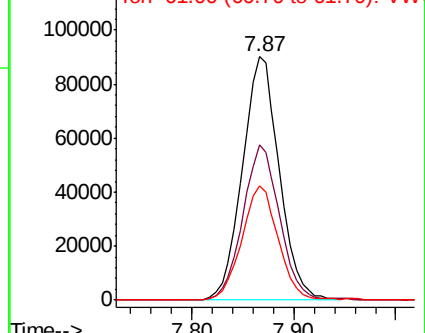
97 100

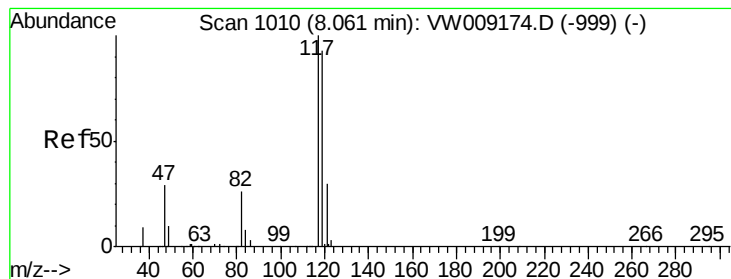
99 63.2 51.2 76.8

61 46.4 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: 27.148 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampled :

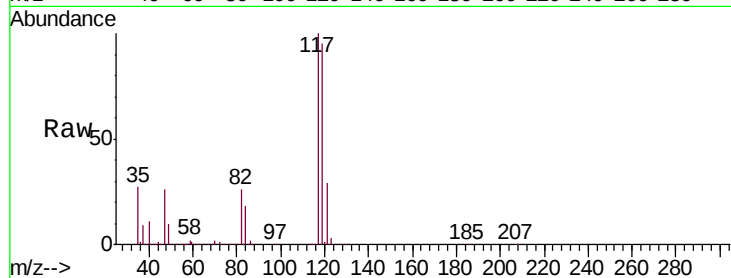
BFB02

Tgt Ion:117 Resp: 239473

Ion Ratio Lower Upper

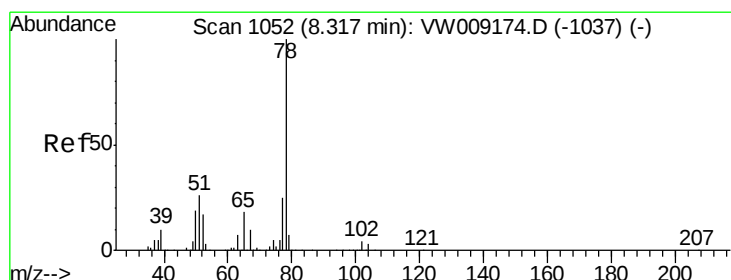
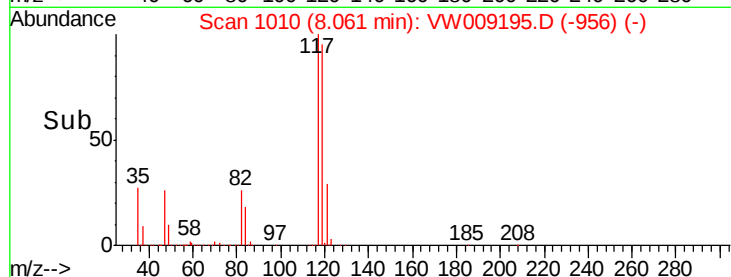
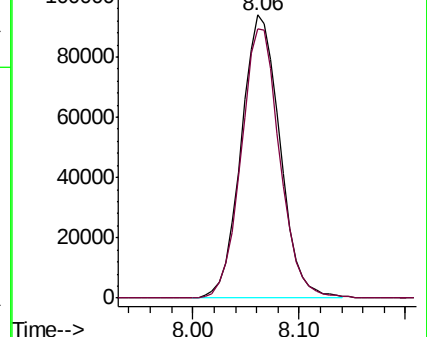
117 100

119 95.1 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: 25.884 ug/L

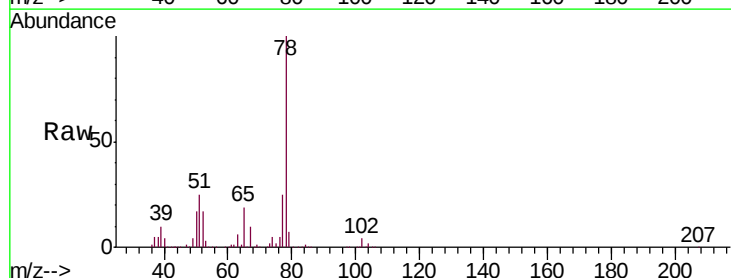
RT: 8.32 min Scan# 1052

Delta R.T. -0.00 min

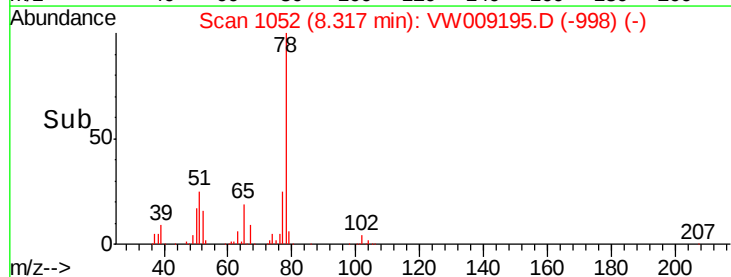
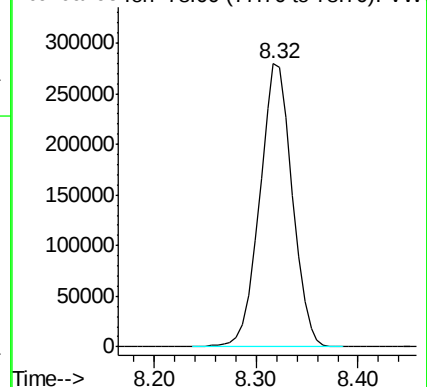
Lab File: VW009195.D

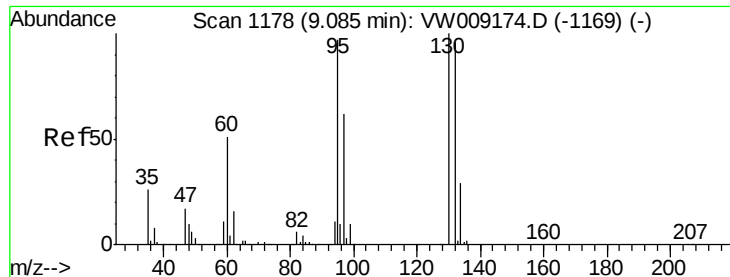
Acq: 15 Mar 2019 13:10

Tgt Ion: 78 Resp: 620183



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 25.685 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

BFB02

Tgt Ion: 95 Resp: 163981

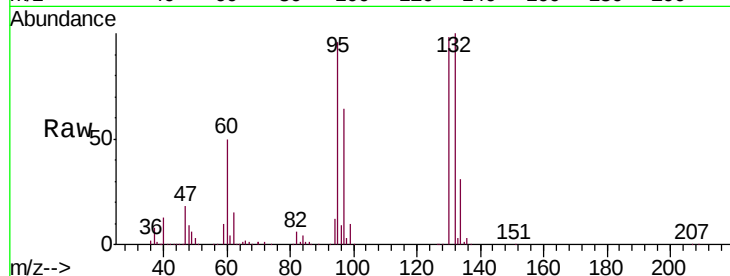
Ion Ratio Lower Upper

95 100

97 63.2 44.7 82.9

132 98.2 69.0 128.2

130 101.3 72.7 134.9

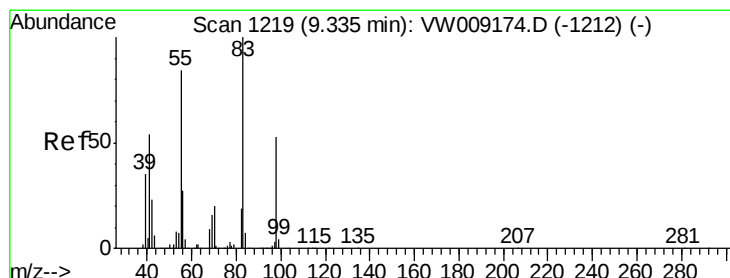
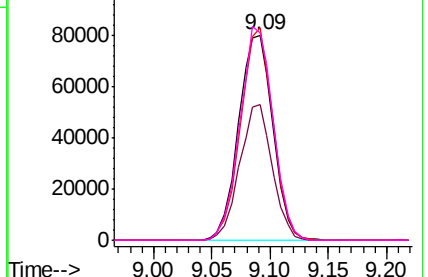
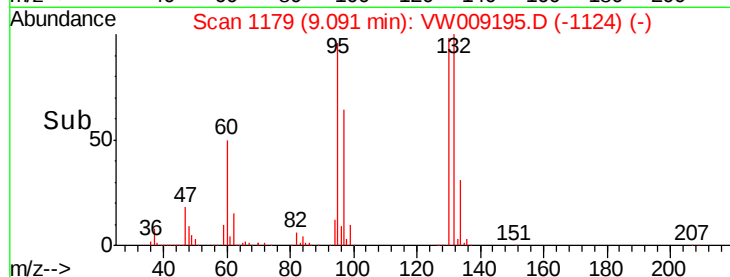


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 25.933 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

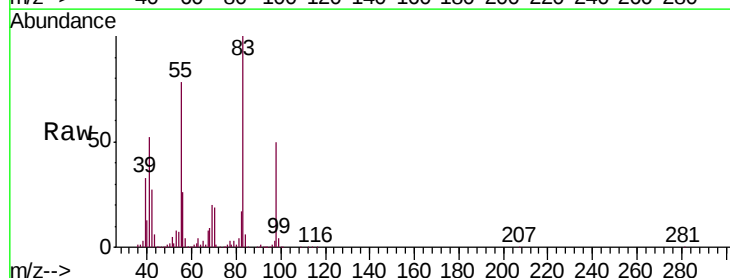
Tgt Ion: 83 Resp: 286446

Ion Ratio Lower Upper

83 100

55 80.1 63.5 95.3

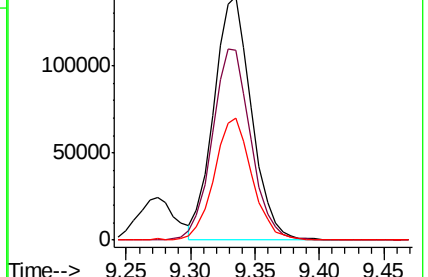
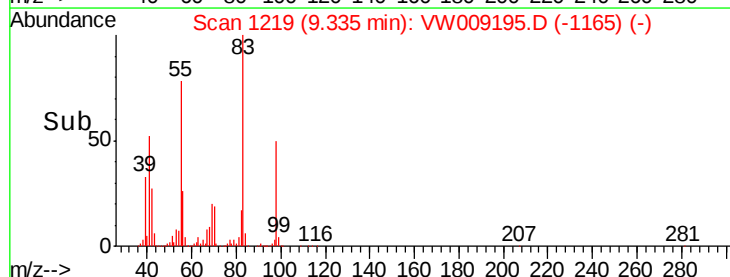
98 50.3 39.8 59.8

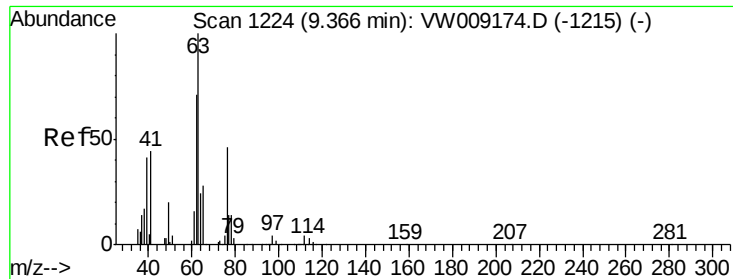


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

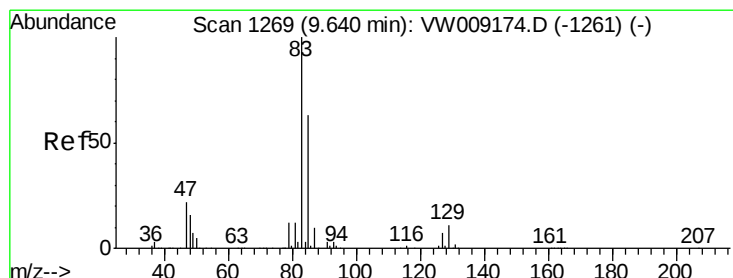
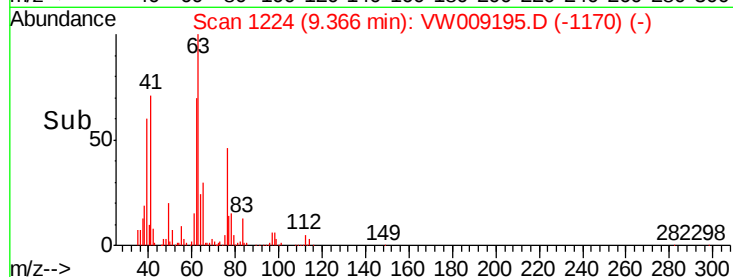
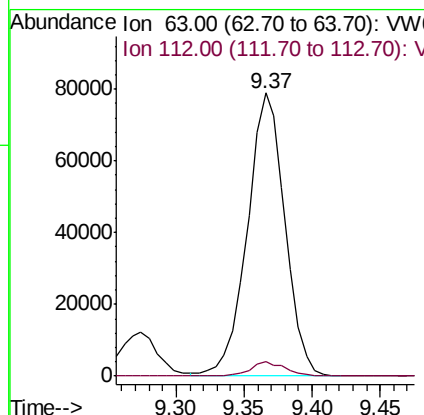
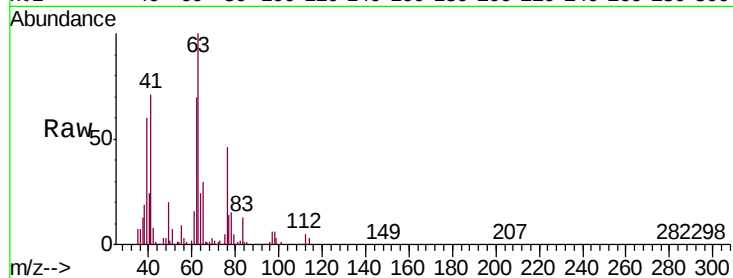




#40
 1,2-Dichloropropane
 Concen: 24.898 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

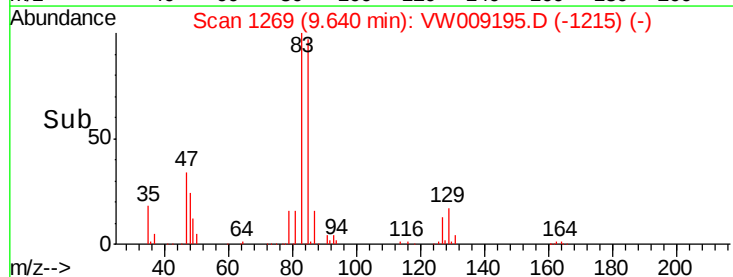
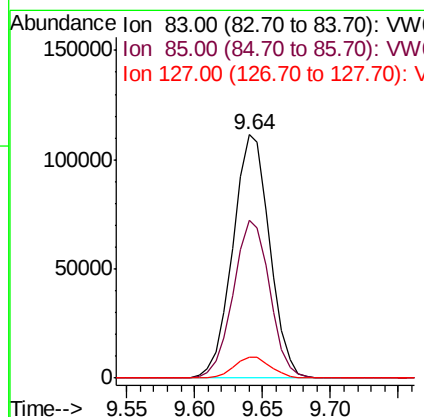
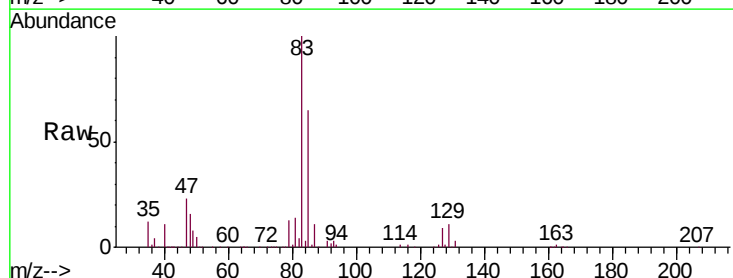
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB02

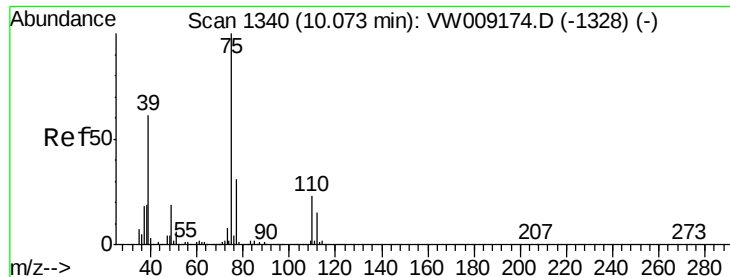
Tgt Ion: 63 Resp: 153081
 Ion Ratio Lower Upper
 63 100
 112 4.7 4.0 6.0



#41
 Bromodichloromethane
 Concen: 24.753 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

Tgt Ion: 83 Resp: 210870
 Ion Ratio Lower Upper
 83 100
 85 64.7 43.5 80.7
 127 8.6 6.2 9.4





#42

cis-1,3-Dichloropropene

Concen: 25.024 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampled :

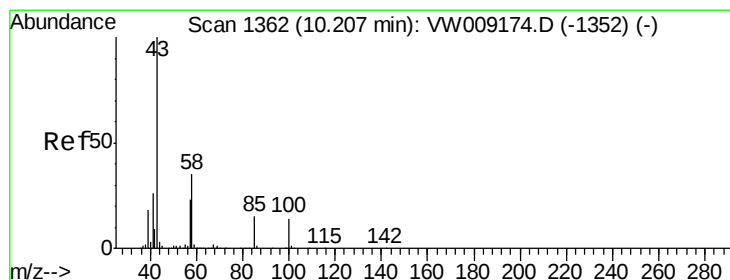
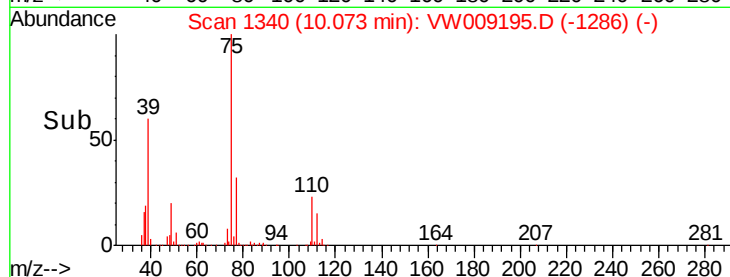
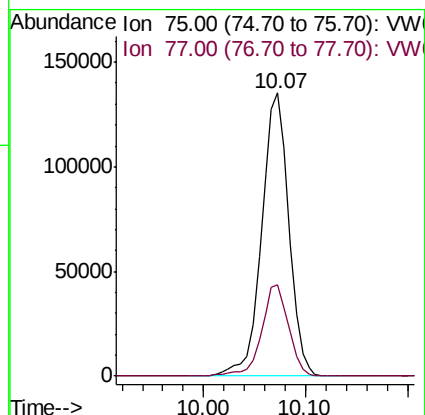
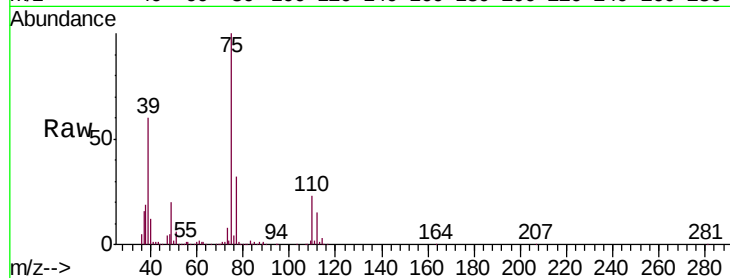
BFB02

Tgt Ion: 75 Resp: 250590

Ion Ratio Lower Upper

75 100

77 32.3 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 45.628 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

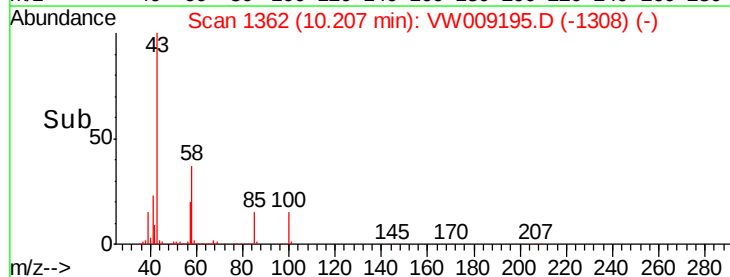
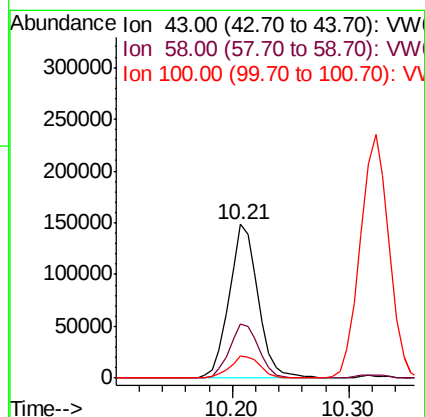
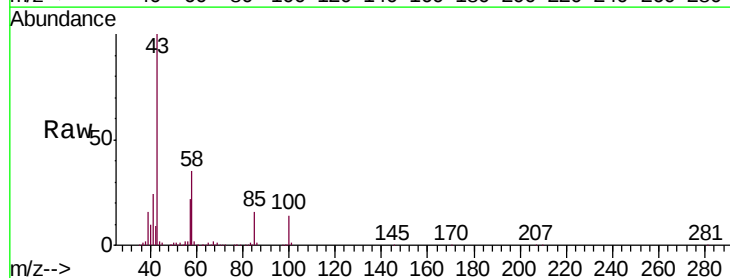
Tgt Ion: 43 Resp: 254209

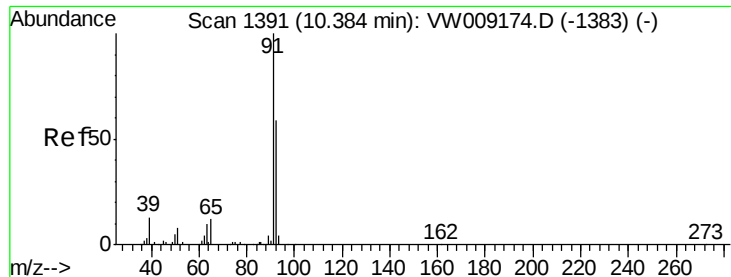
Ion Ratio Lower Upper

43 100

58 36.0 28.2 42.2

100 14.7 11.4 17.2





#44

Toluene

Concen: 25.506 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampled :

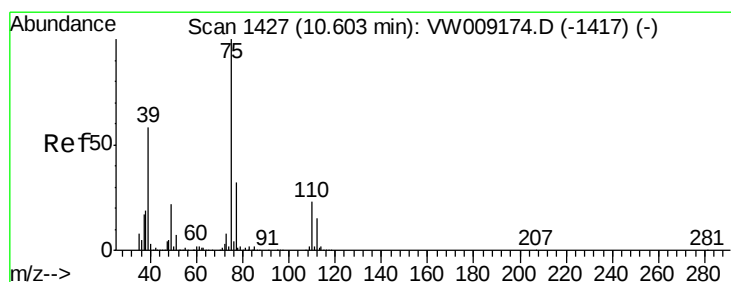
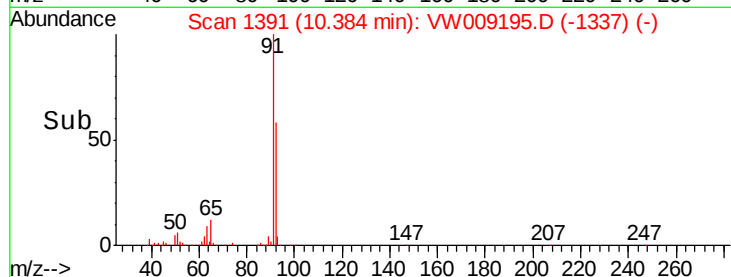
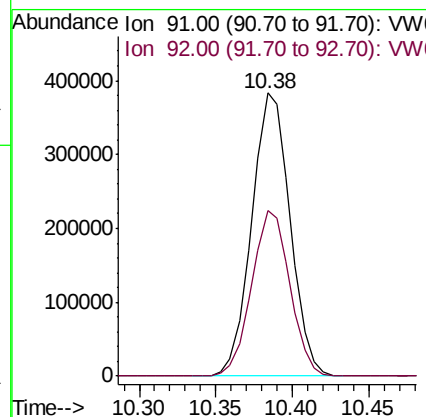
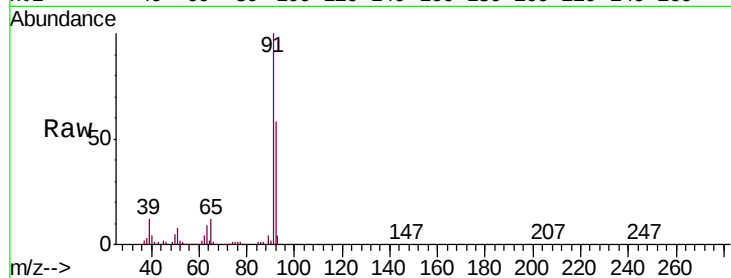
BFB02

Tgt Ion: 91 Resp: 668182

Ion Ratio Lower Upper

91 100

92 58.4 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 24.771 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW009195.D

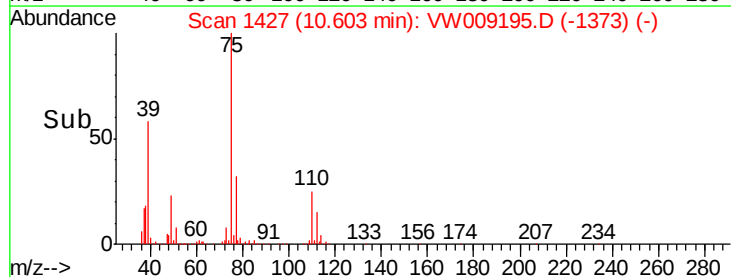
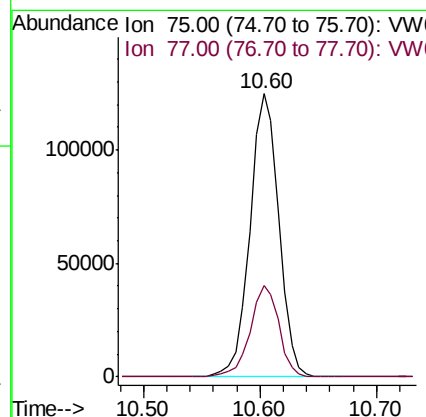
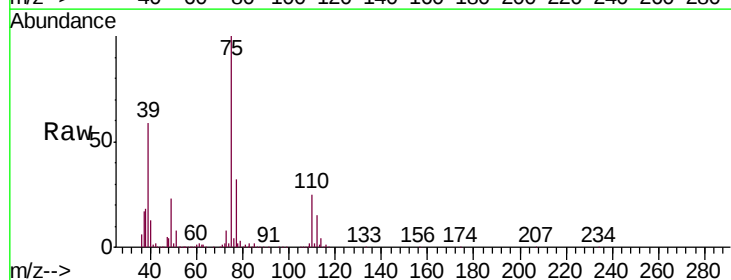
Acq: 15 Mar 2019 13:10

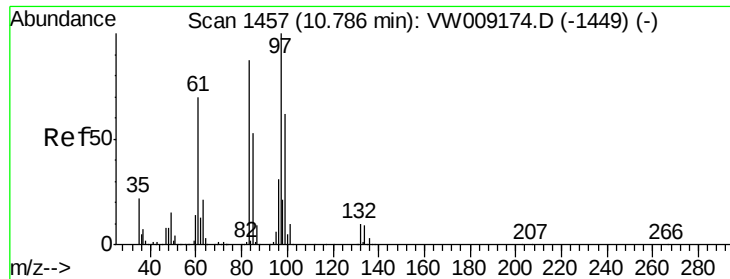
Tgt Ion: 75 Resp: 215779

Ion Ratio Lower Upper

75 100

77 32.3 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 24.903 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampled :

BFB02

Tgt Ion: 97 Resp: 122150

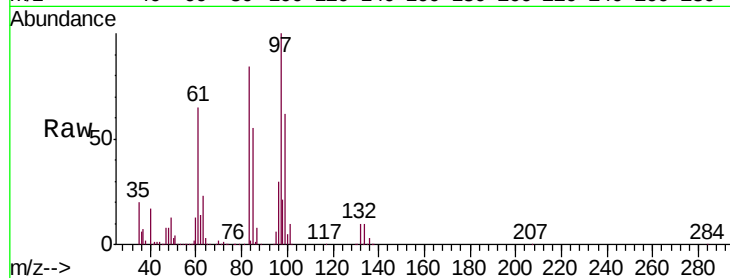
Ion Ratio Lower Upper

97 100

83 83.8 60.7 112.7

85 55.3 40.1 74.5

99 61.8 43.8 81.3

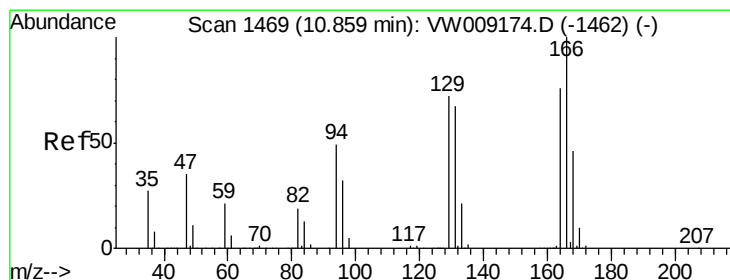
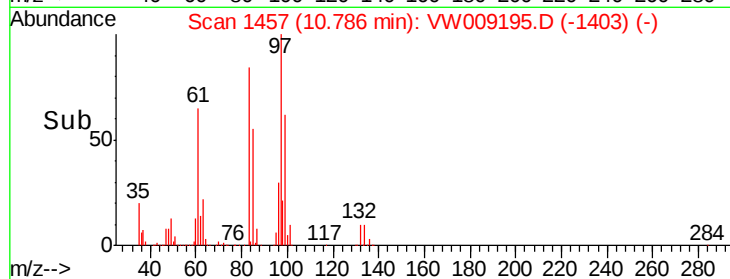
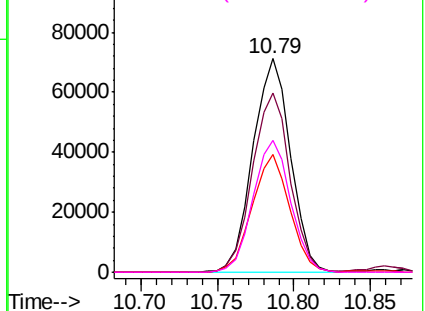


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 25.589 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Tgt Ion: 164 Resp: 138041

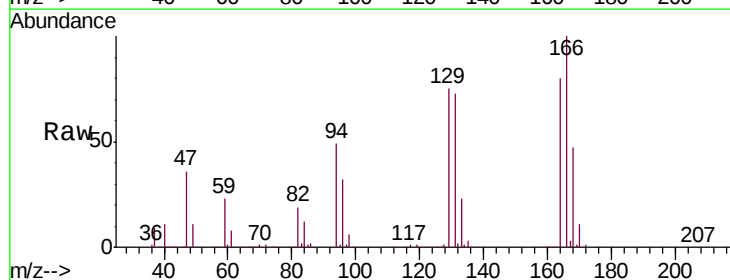
Ion Ratio Lower Upper

164 100

129 93.7 66.5 123.5

131 91.5 62.6 116.3

166 125.7 91.6 170.0

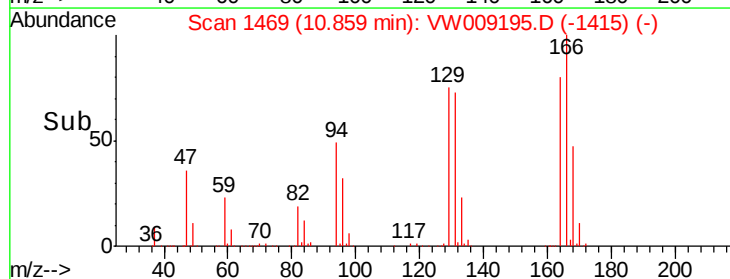
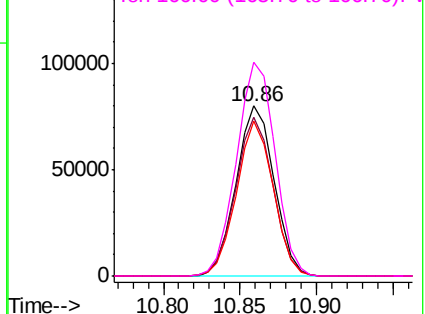


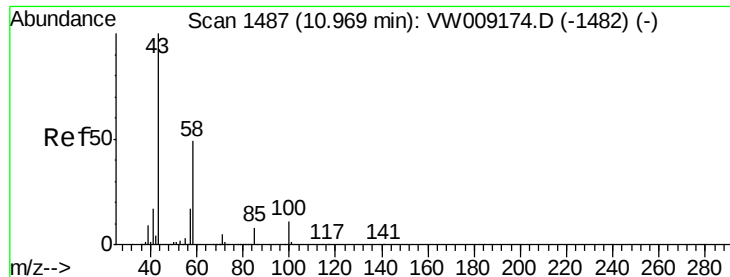
Abundance Ion 164.00 (163.70 to 164.70): V

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: 49.759 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

BFB02

Tgt Ion: 43 Resp: 195251

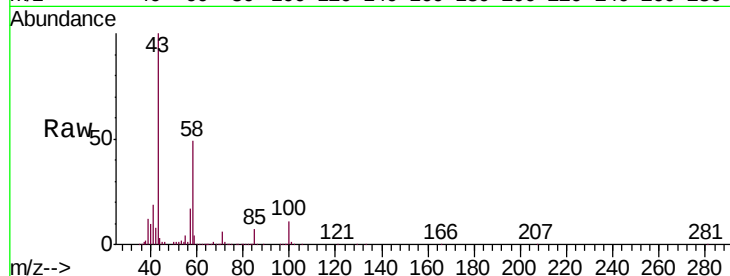
Ion Ratio Lower Upper

43 100

58 50.7 39.2 58.8

57 17.4 14.2 21.2

100 11.6 8.9 13.3

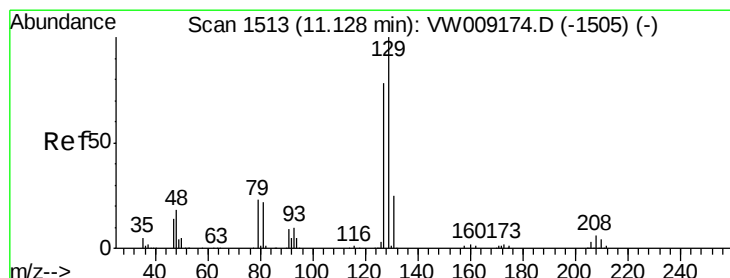
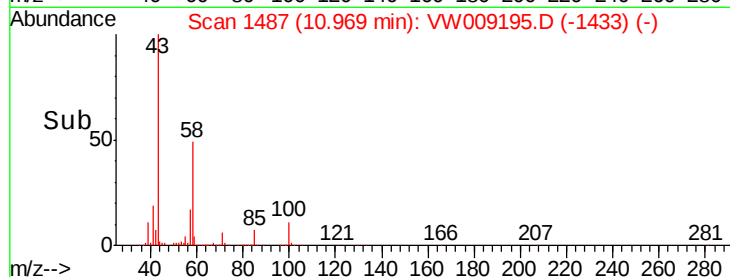
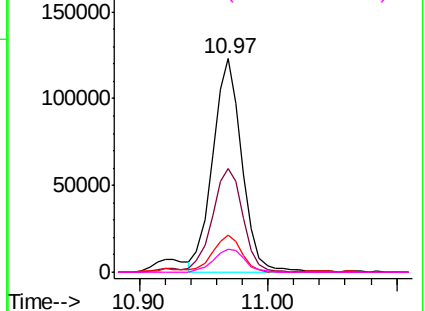


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 25.032 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW009195.D

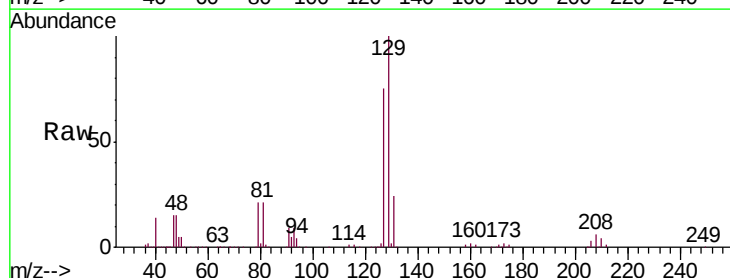
Acq: 15 Mar 2019 13:10

Tgt Ion: 129 Resp: 151574

Ion Ratio Lower Upper

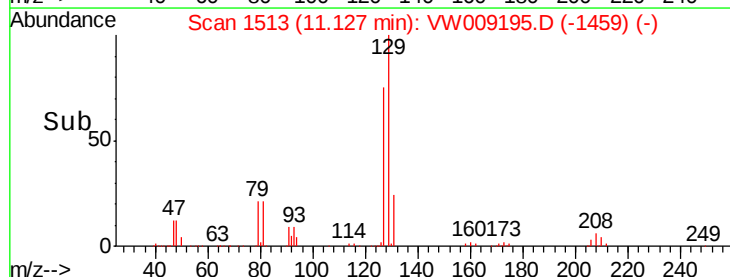
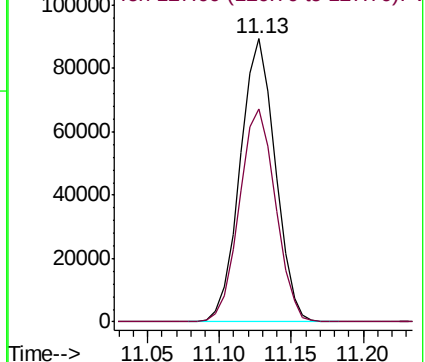
129 100

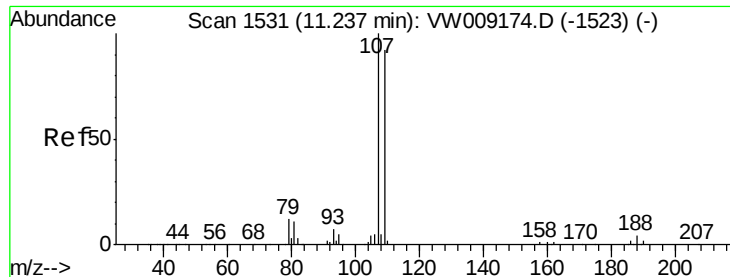
127 75.0 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

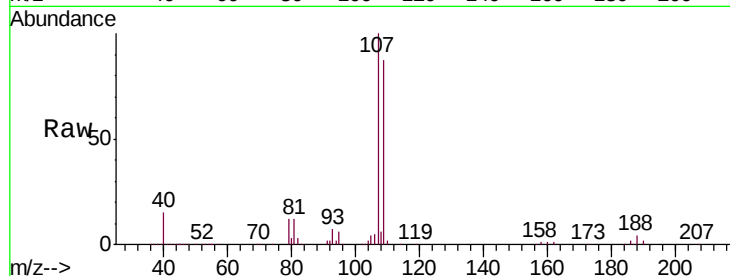




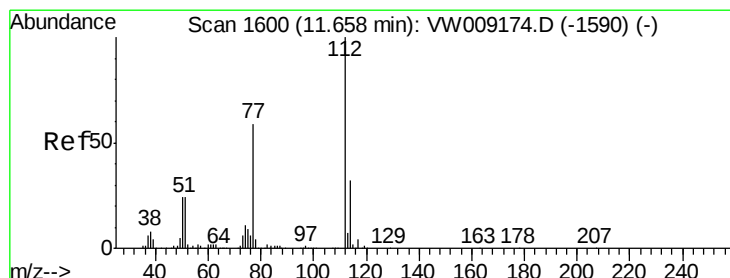
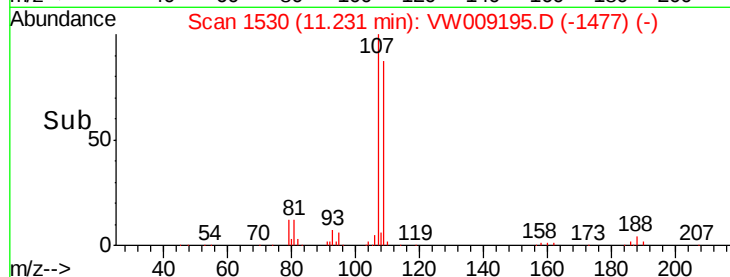
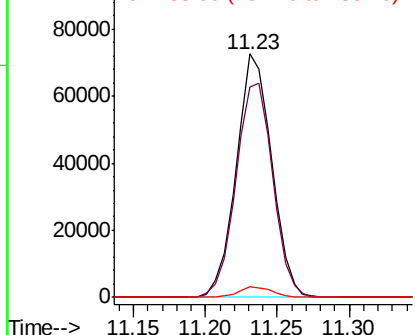
#51
1,2-Dibromoethane
Concen: 24.938 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. -0.01 min
Lab File: VW009195.D
Acq: 15 Mar 2019 13:10

Instrument :
MSVOA_W
ClientSampleId :
BFB02

Tgt Ion	Ratio	Lower	Upper
107	100		
109	86.6	68.0	126.4
188	4.2	3.5	5.3

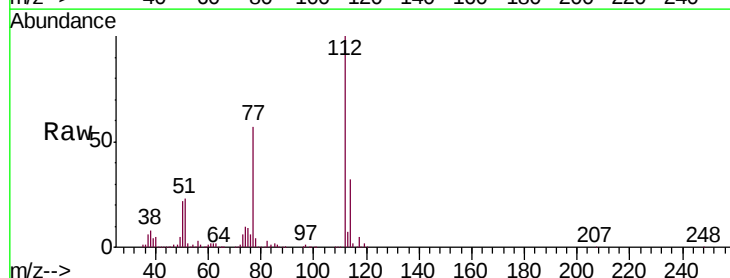


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

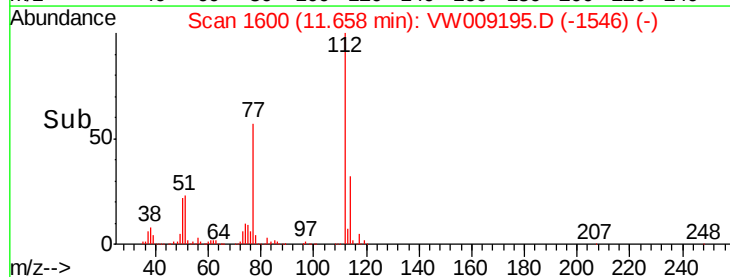
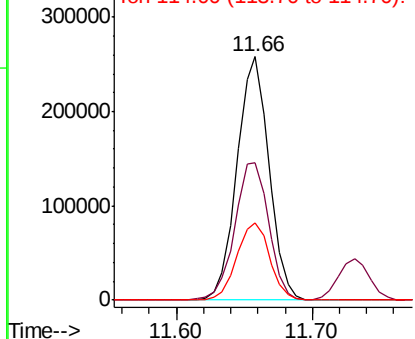


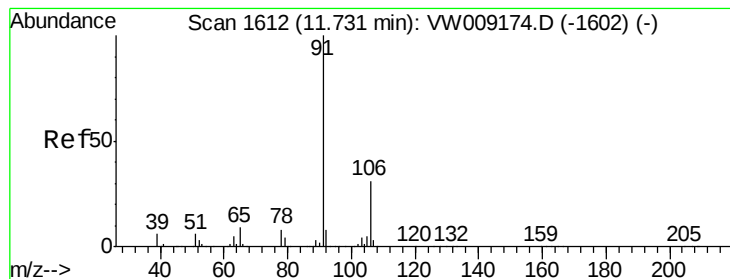
#52
Chlorobenzene
Concen: 25.198 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW009195.D
Acq: 15 Mar 2019 13:10

Tgt Ion	Ratio	Lower	Upper
112	100		
77	56.6	45.7	68.5
114	31.6	22.8	42.4



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 25.955 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampled :

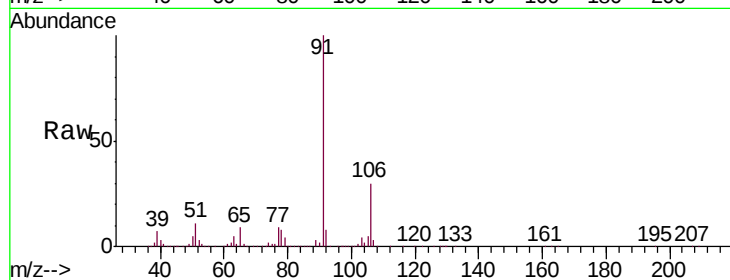
BFB02

Tgt Ion: 91 Resp: 764440

Ion Ratio Lower Upper

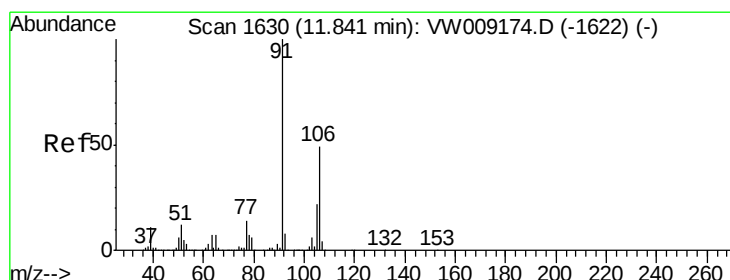
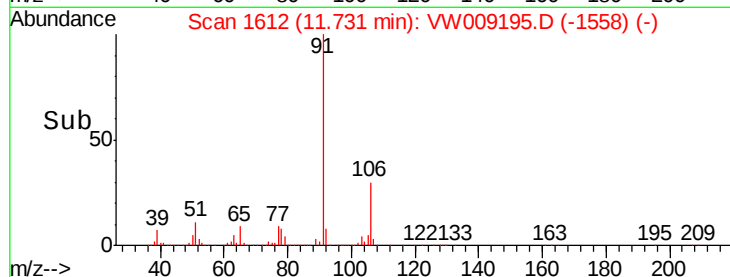
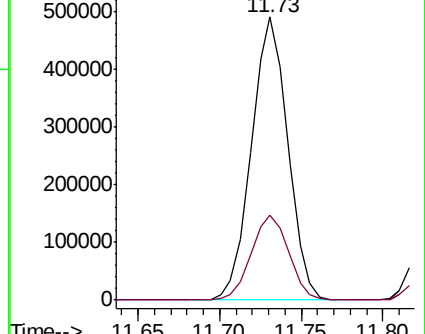
91 100

106 30.0 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: 25.820 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VW009195.D

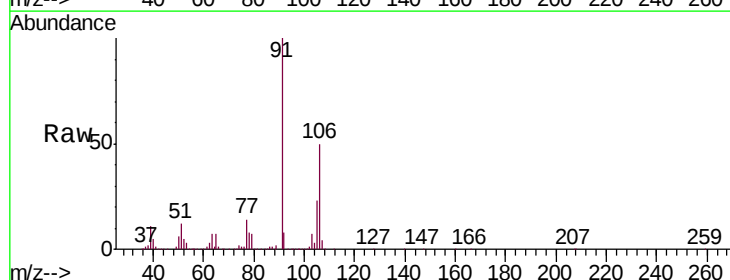
Acq: 15 Mar 2019 13:10

Tgt Ion: 106 Resp: 288914

Ion Ratio Lower Upper

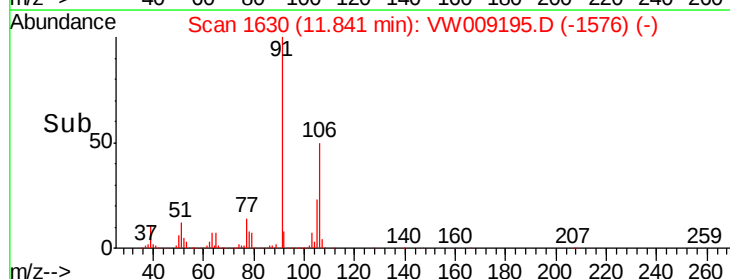
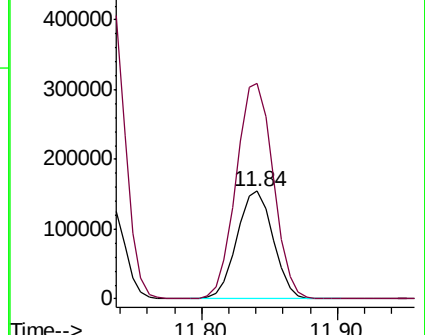
106 100

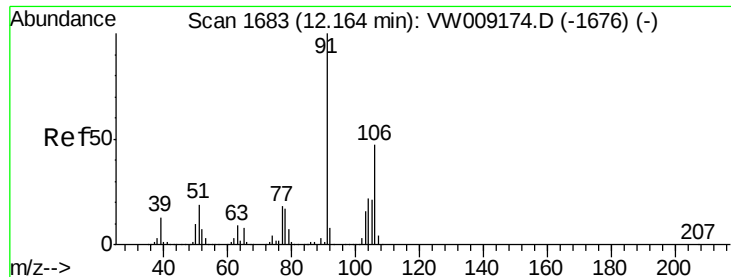
91 200.6 138.4 257.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#55

o-xylene

Concen: 25.289 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

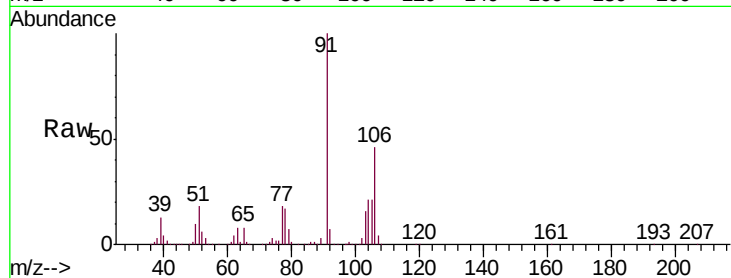
BFB02

Tgt Ion:106 Resp: 276056

Ion Ratio Lower Upper

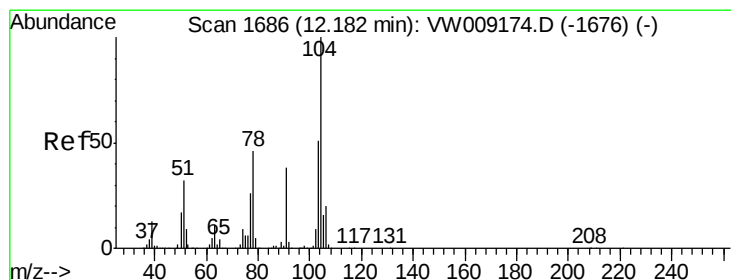
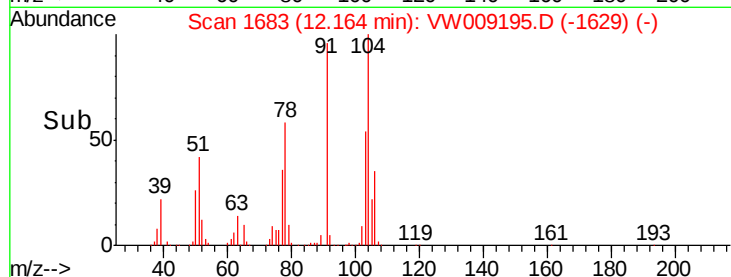
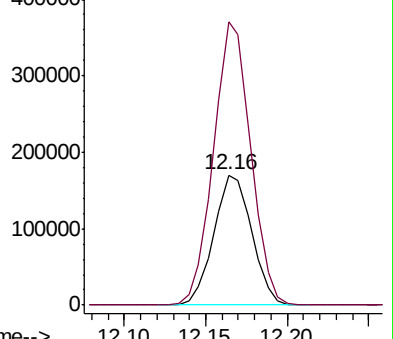
106 100

91 217.0 153.2 284.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 25.656 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VW009195.D

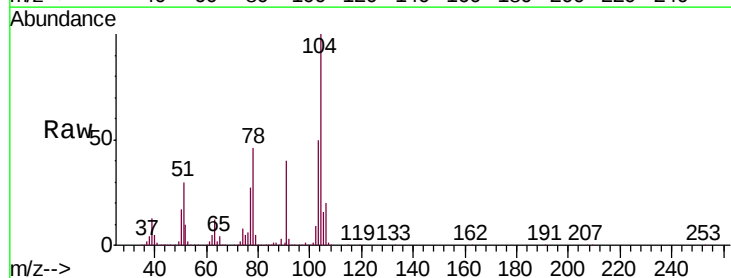
Acq: 15 Mar 2019 13:10

Tgt Ion:104 Resp: 477838

Ion Ratio Lower Upper

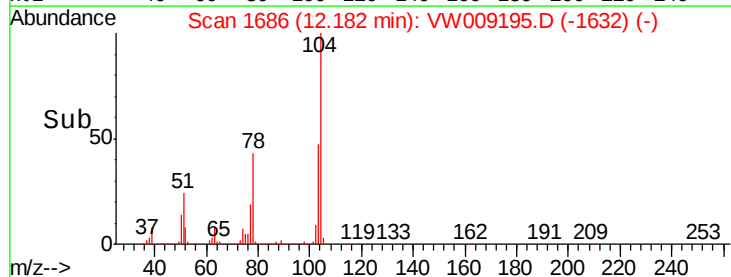
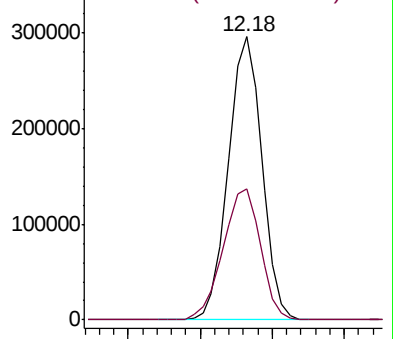
104 100

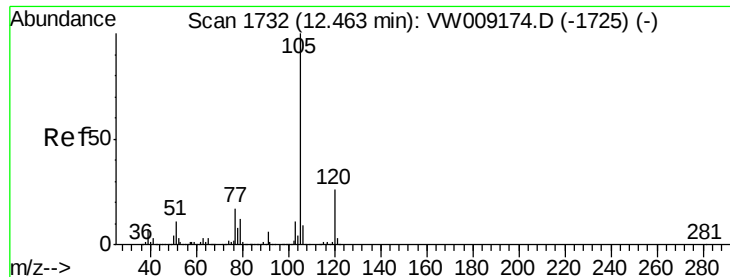
78 46.4 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 26.008 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

BFB02

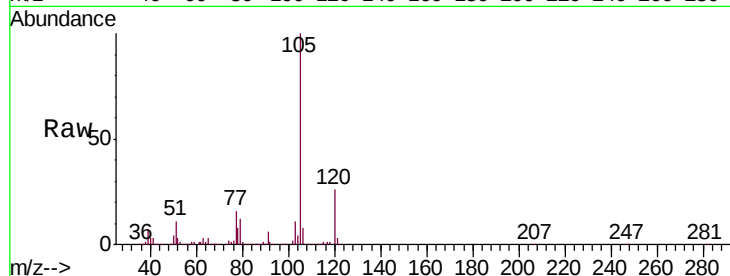
Tgt Ion: 105 Resp: 760520

Ion Ratio Lower Upper

105 100

120 26.0 21.3 31.9

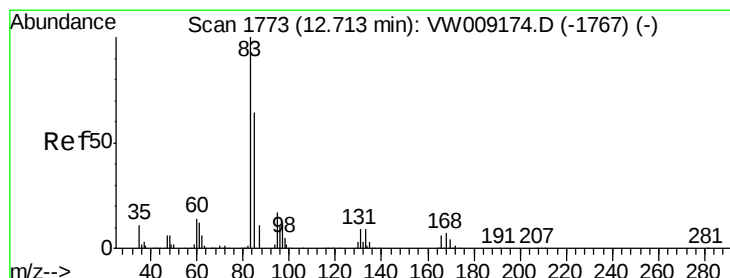
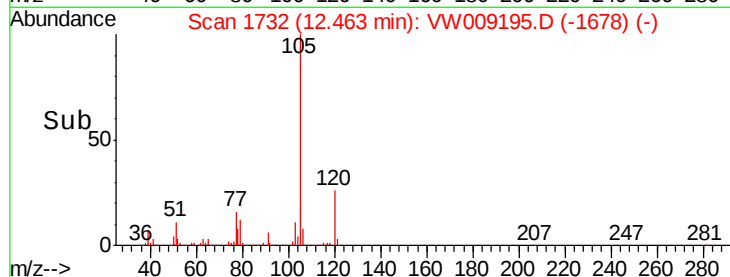
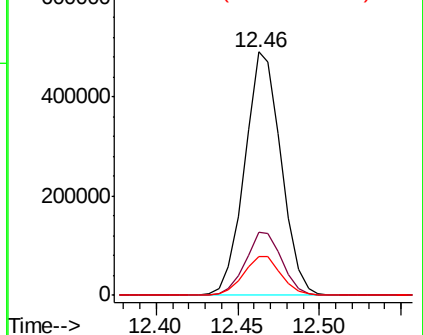
77 16.5 13.1 19.7



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.477 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

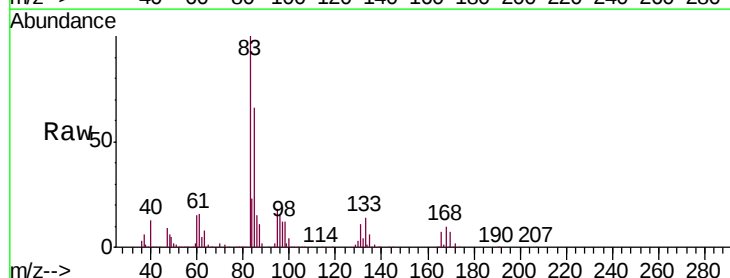
Tgt Ion: 83 Resp: 161970

Ion Ratio Lower Upper

83 100

85 65.9 45.6 84.8

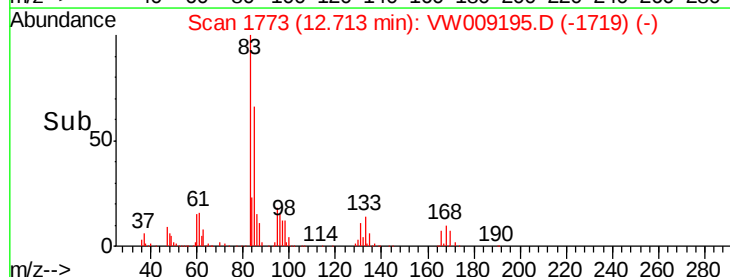
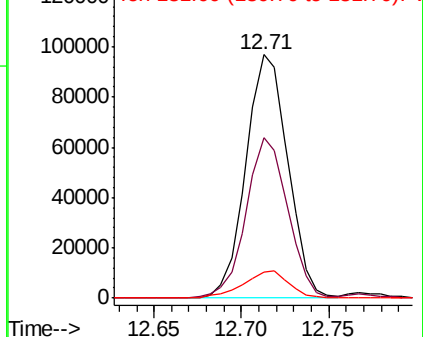
131 10.9 9.2 13.8

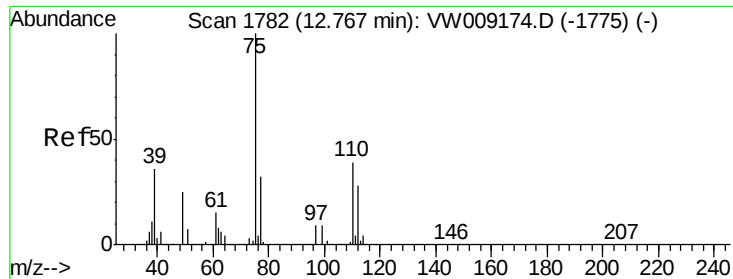


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.320 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

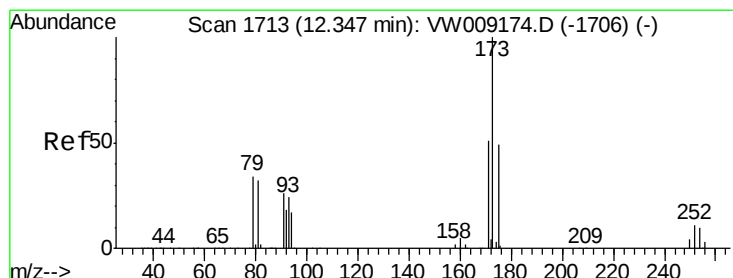
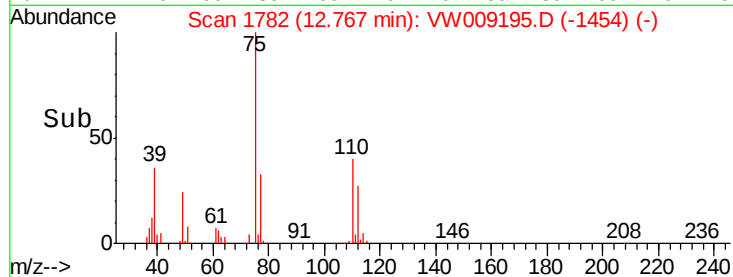
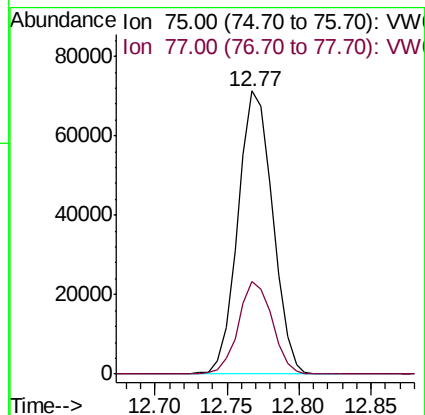
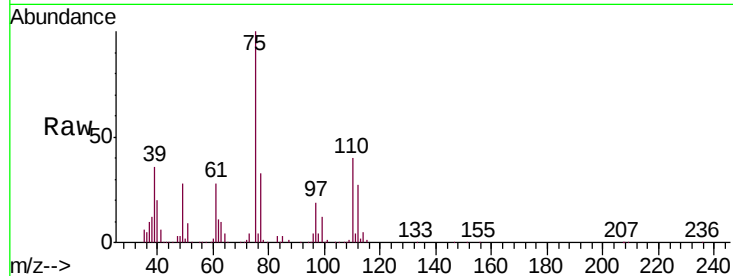
BFB02

Tgt Ion: 75 Resp: 119431

Ion Ratio Lower Upper

75 100

77 31.8 26.2 39.2



#62

Bromoform

Concen: 24.177 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

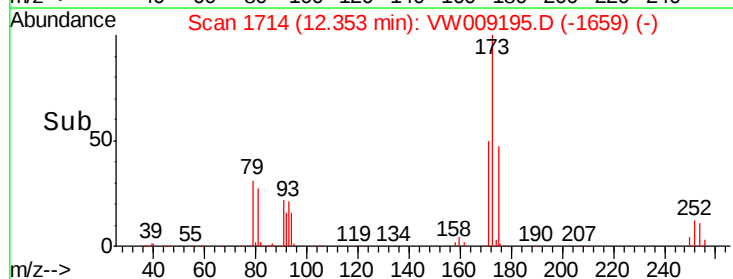
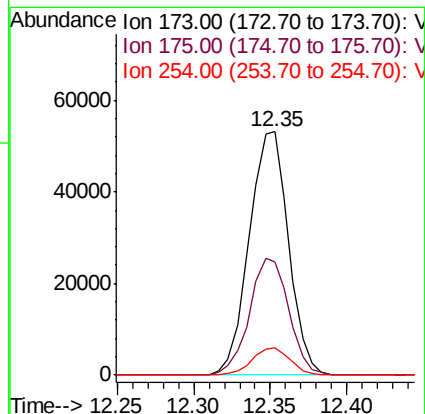
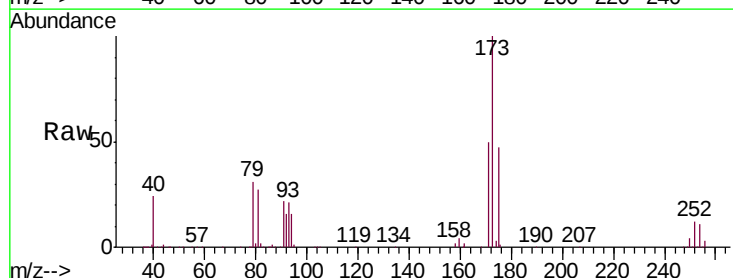
Tgt Ion: 173 Resp: 94875

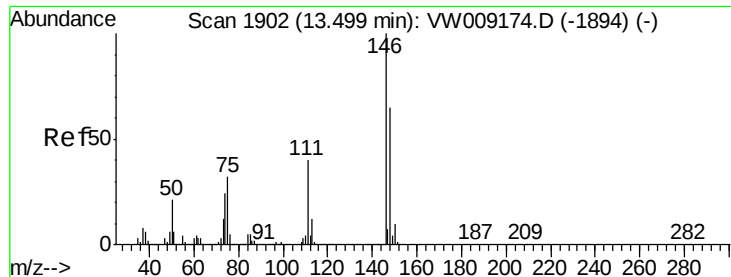
Ion Ratio Lower Upper

173 100

175 48.1 39.7 59.5

254 10.7 8.5 12.7

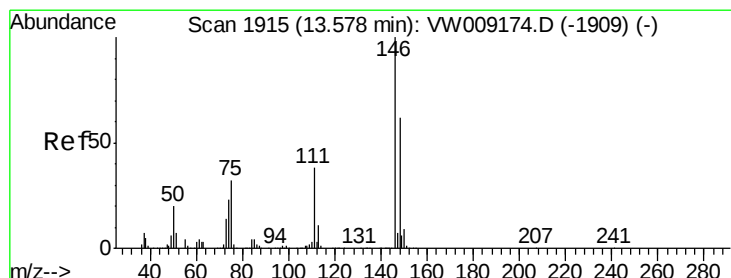
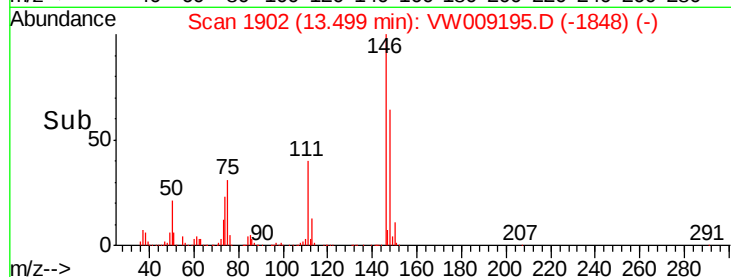
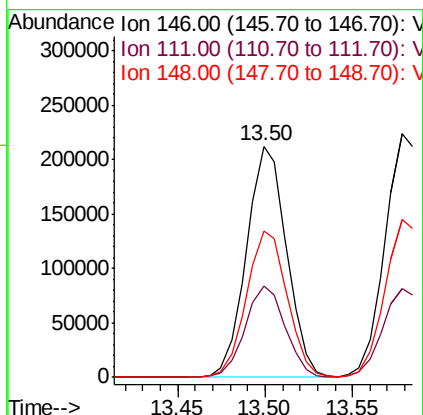
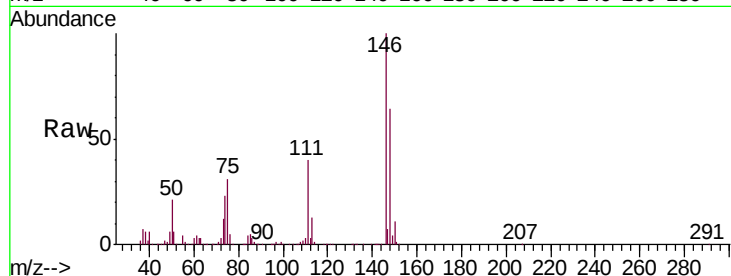




#63
 1,3-Dichlorobenzene
 Concen: 24.428 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

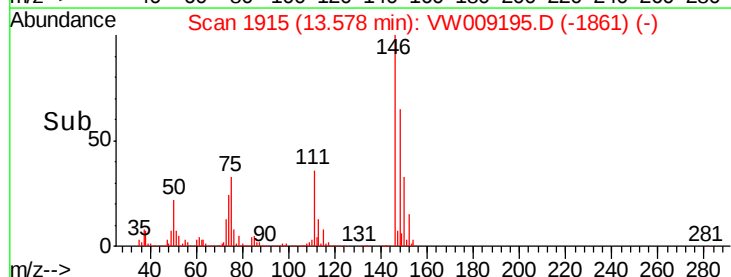
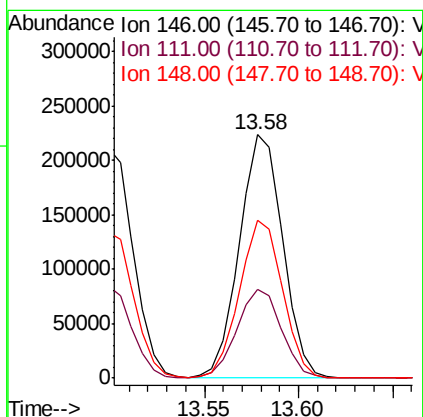
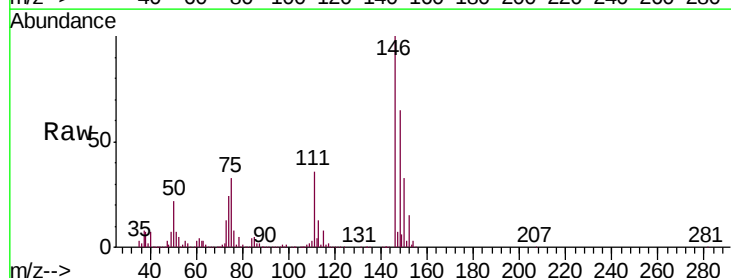
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB02

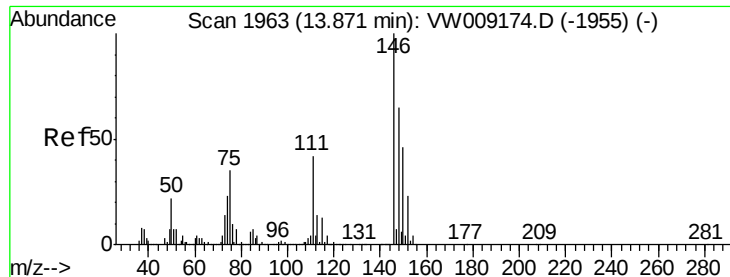
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	26.9	49.9
148	63.5	45.1	83.7



#64
 1,4-Dichlorobenzene
 Concen: 24.996 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.4	27.8	51.6
148	64.8	46.3	86.1





#65

1,2-Dichlorobenzene

Concen: 24.731 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

BFB02

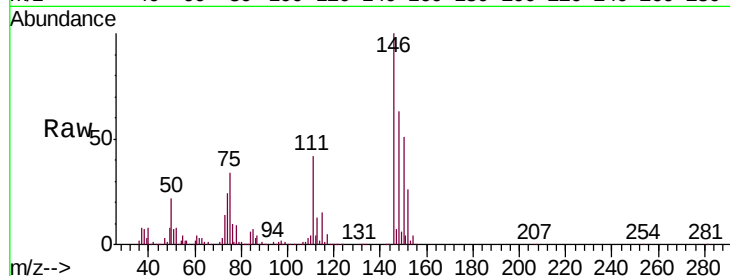
Tgt Ion:146 Resp: 326470

Ion Ratio Lower Upper

146 100

111 42.1 33.5 50.3

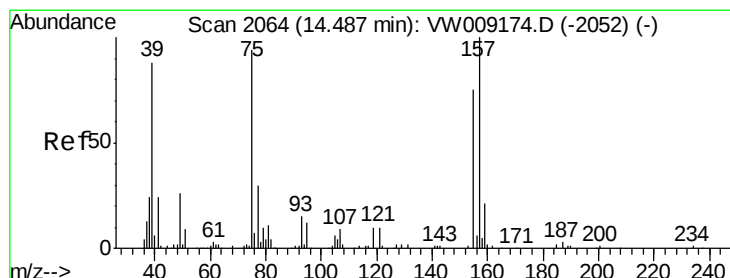
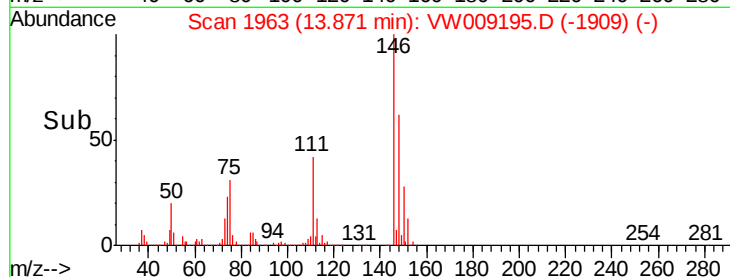
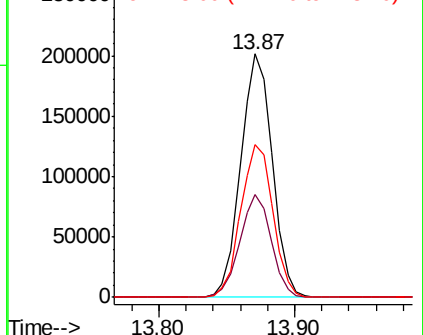
148 62.5 50.2 75.2



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: 22.047 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

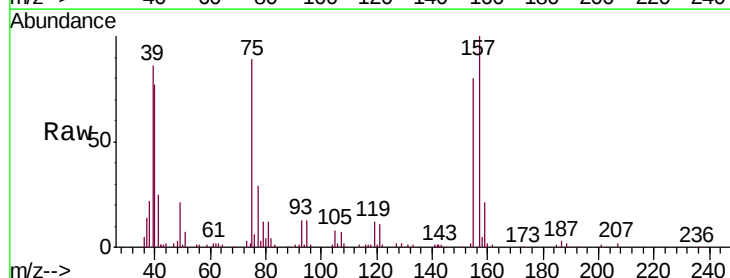
Tgt Ion: 75 Resp: 28523

Ion Ratio Lower Upper

75 100

157 112.5 89.0 133.4

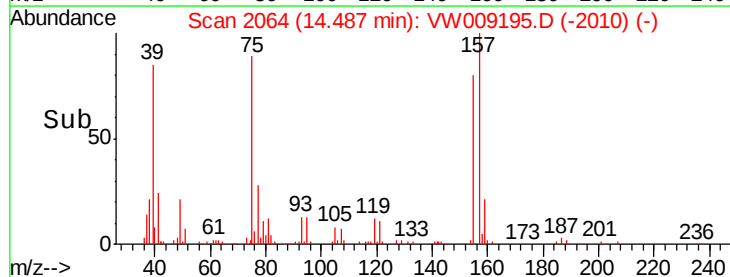
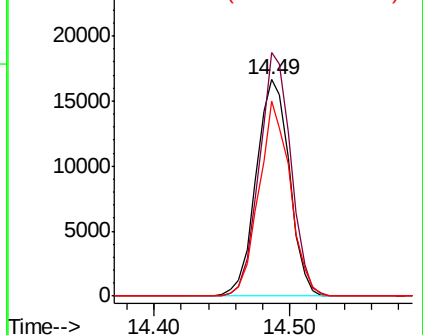
155 90.3 64.2 96.2

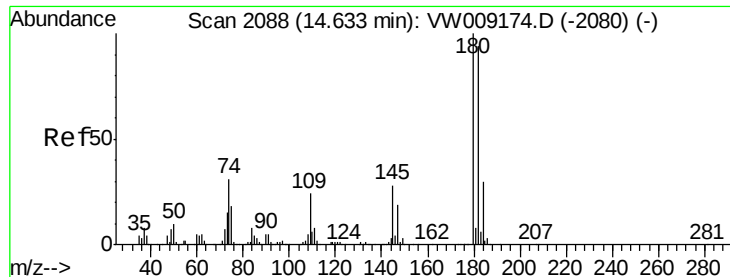


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

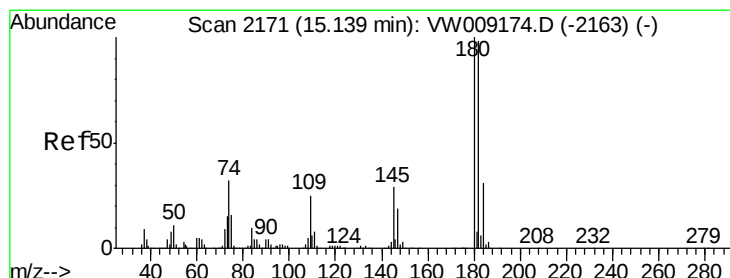
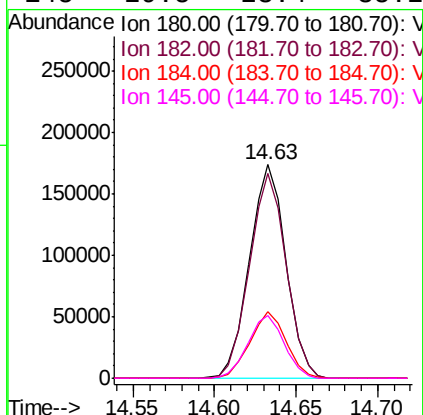
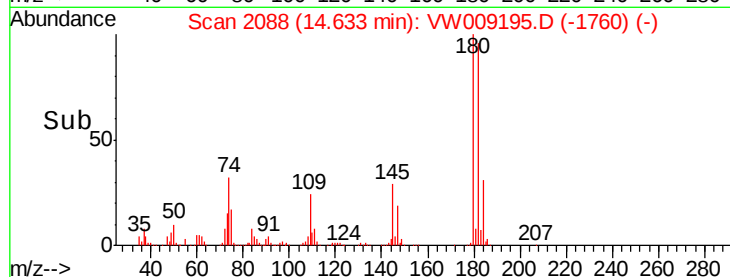
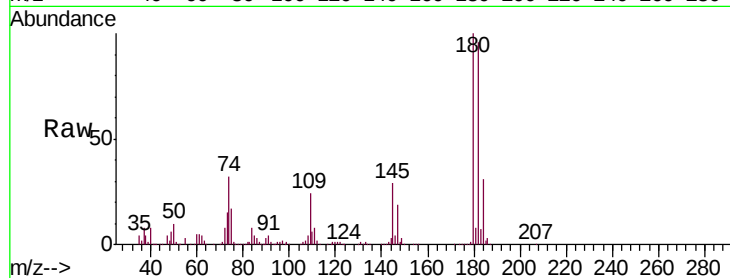




#67
 1,3,5-Trichlorobenzene
 Concen: 25.002 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

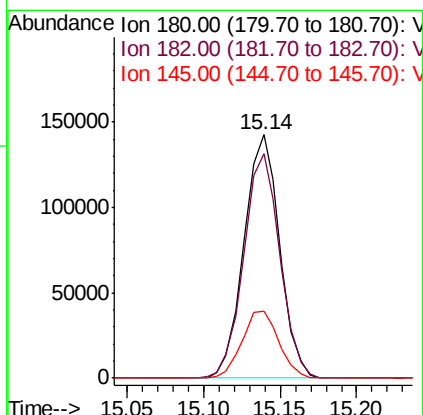
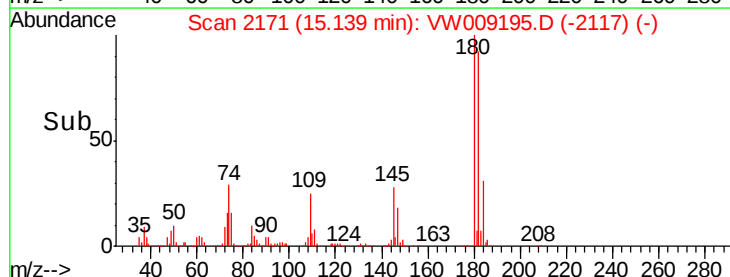
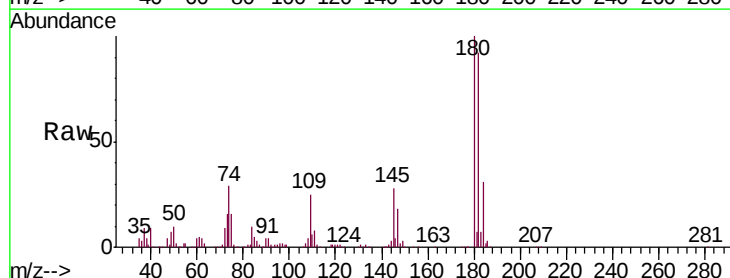
Instrument :
 MSVOA_W
 ClientSampled :
 BFB02

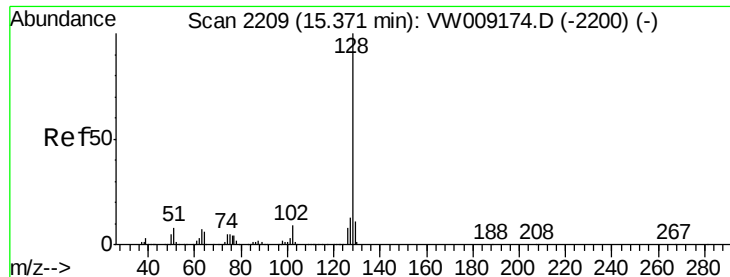
Tgt Ion:	180	Resp:	269937
Ion Ratio	Lower	Upper	
180	100		
182	96.1	76.1	114.1
184	30.9	23.8	35.6
145	29.5	23.4	35.2



#68
 1,2,4-trichlorobenzene
 Concen: 25.423 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW009195.D
 Acq: 15 Mar 2019 13:10

Tgt Ion:	180	Resp:	230560
Ion Ratio	Lower	Upper	
180	100		
182	93.9	75.5	113.3
145	28.7	24.1	36.1





#69

Naphthalene

Concen: 24.850 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

Instrument :

MSVOA_W

ClientSampleId :

BFB02

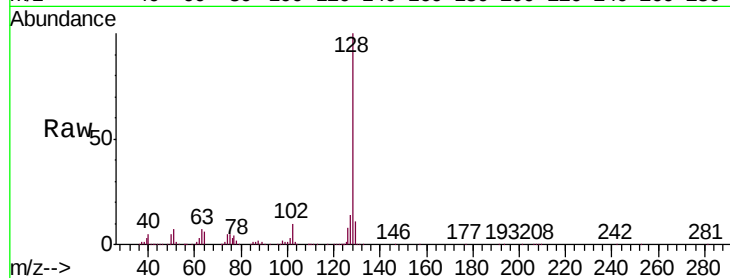
Tgt Ion:128 Resp: 467225

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

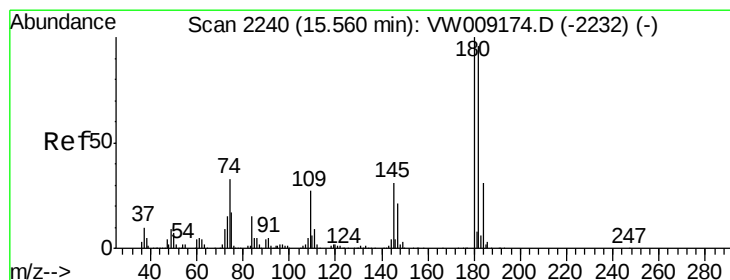
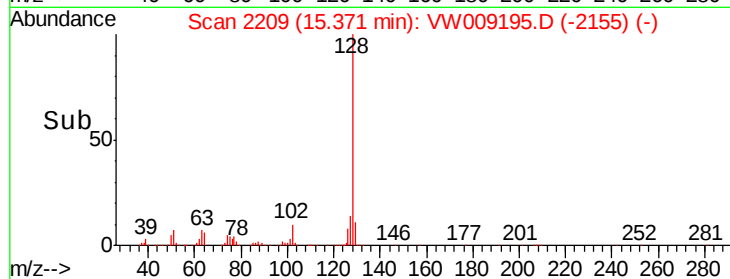
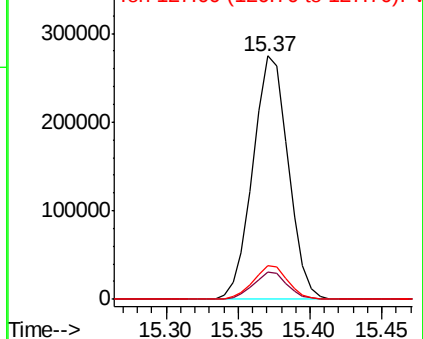
127 13.6 11.1 16.7



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: 25.279 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW009195.D

Acq: 15 Mar 2019 13:10

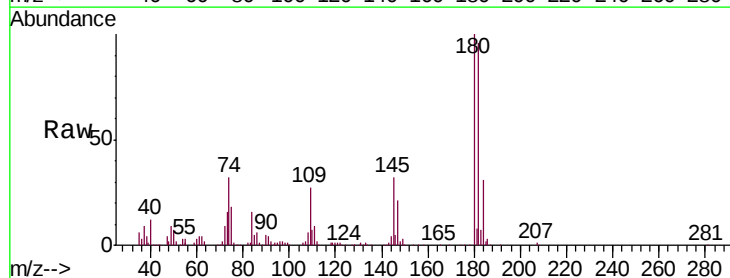
Tgt Ion:180 Resp: 214725

Ion Ratio Lower Upper

180 100

182 94.5 77.2 115.8

145 31.3 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

