

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092818\
 Data File : VW005728.D
 Acq On : 28 Sep 2018 19:00
 Operator : SY/AP
 Sample : VSTDCCC025EC
 Misc : 5.00G/105ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 29 01:20:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092818S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 28 16:00:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	238228	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	232201	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	123031	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.37	65	73773	24.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.16%
7) Chloroethane-d5	2.90	69	59040	24.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	99.68%
10) 1,1-Dichloroethene-d2	4.02	63	161392	24.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	97.36%
20) 2-Butanone-d5	7.09	46	61381	62.96	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	125.92%
24) Chloroform-d	7.65	84	159986	26.14	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.56%
26) 1,2-Dichloroethane-d4	8.31	65	102889	27.76	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	111.04%
29) Benzene-d6	8.28	84	301129	26.20	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.80%
33) 1,2-Dichloropropane-d6	9.28	67	85205	25.64	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.56%
37) Toluene-d8	10.33	98	297916	26.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	105.00%
38) trans-1,3-Dichloropropene-	10.58	79	45773	26.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.92%
39) 2-Hexanone-d5	10.93	63	53541	68.82	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	137.64%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	99487	30.83	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	123.32%#
61) 1,2-Dichlorobenzene-d4	13.86	152	117783	27.06	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	108.24%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	60420	21.629	ug/L	95
3) Chloromethane	2.22	50	54632	20.995	ug/L	94
5) Vinyl chloride	2.37	62	85208	22.710	ug/L	96
6) Bromomethane	2.79	94	49511	21.932	ug/L	99
8) Chloroethane	2.93	64	46600	22.338	ug/L	97
9) Trichlorofluoromethane	3.26	101	62463	21.788	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	74062	22.868	ug/L	96
12) 1,1-Dichloroethene	4.04	96	69225	22.380	ug/L	81
13) Acetone	4.13	43	55255	54.423	ug/L	71
14) Carbon disulfide	4.38	76	210955	21.751	ug/L	99
15) Methyl Acetate	4.68	43	51377	28.514	ug/L	98
16) Methylene chloride	4.92	84	80026	20.373	ug/L	92
17) Methyl tert-butyl Ether	5.43	73	119668	24.315	ug/L	99
18) trans-1,2-Dichloroethene	5.43	96	72877	22.909	ug/L	98
19) 1,1-Dichloroethane	6.22	63	139057	23.624	ug/L	97
21) 2-Butanone	7.18	43	62049	51.031	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	75639	21.874	ug/L	89

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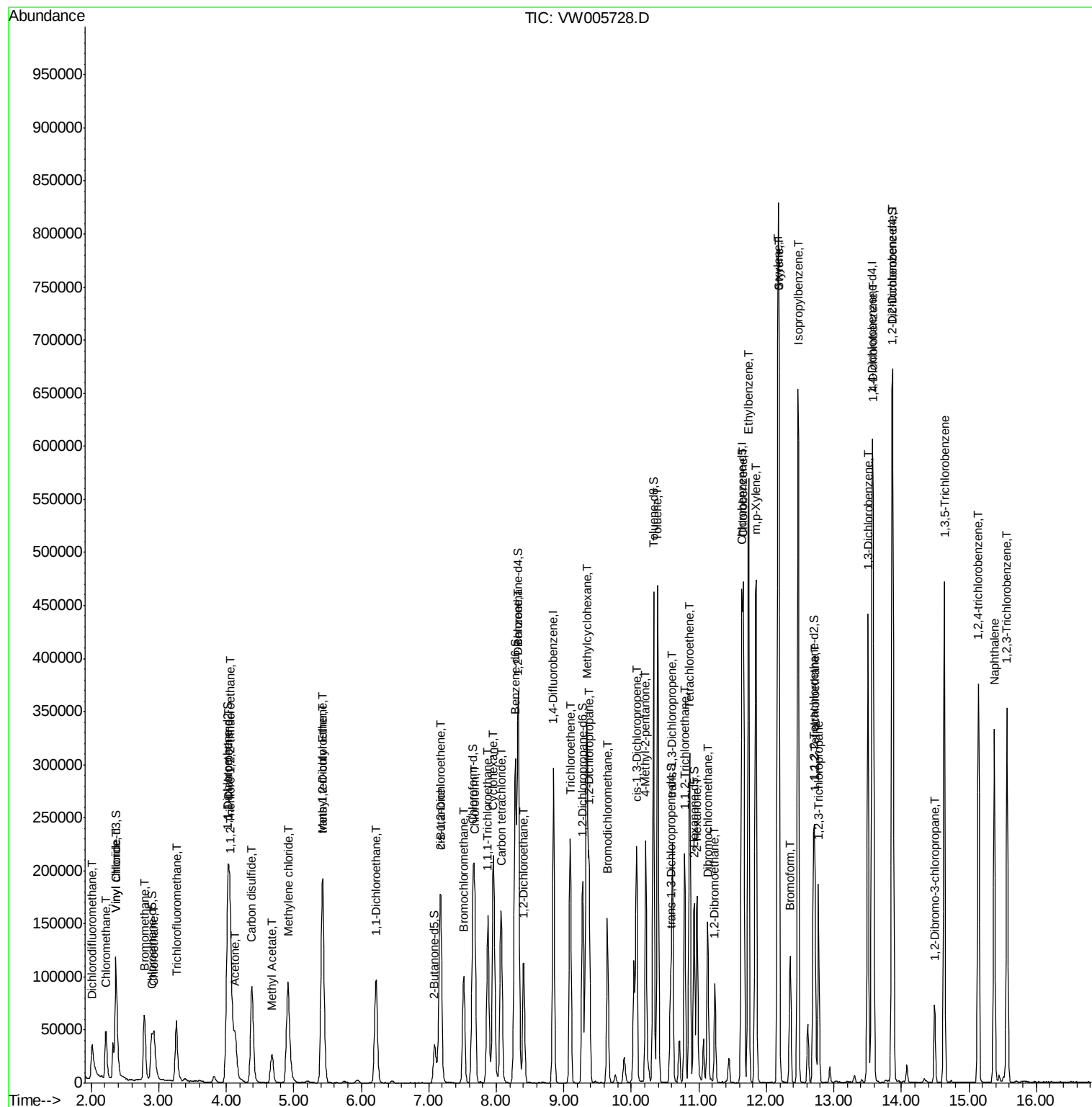
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	35802	22.309	ug/L	92
25) Chloroform	7.68	83	145489	23.101	ug/L	100
27) 1,2-Dichloroethane	8.40	62	111679	24.084	ug/L	98
30) Cyclohexane	7.96	56	110278	20.954	ug/L	98
31) 1,1,1-Trichloroethane	7.88	97	128372	22.576	ug/L	99
32) Carbon tetrachloride	8.07	117	125843	22.726	ug/L	99
34) Benzene	8.33	78	298339	22.739	ug/L	100
35) Trichloroethene	9.10	95	77730	22.145	ug/L	99
36) Methylcyclohexane	9.34	83	134649	22.061	ug/L	98
40) 1,2-Dichloropropane	9.37	63	72732	22.747	ug/L	98
41) Bromodichloromethane	9.65	83	103269	22.972	ug/L	99
42) cis-1,3-Dichloropropene	10.08	75	125091	23.690	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	142227	54.508	ug/L	99
44) Toluene	10.39	91	344451	23.493	ug/L	100
45) trans-1,3-Dichloropropene	10.61	75	118872	24.177	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	64683	24.243	ug/L	98
47) Tetrachloroethene	10.87	164	71178	23.017	ug/L	92
49) 2-Hexanone	10.98	43	108416	59.192	ug/L	99
50) Dibromochloromethane	11.13	129	80684	24.112	ug/L	98
51) 1,2-Dibromoethane	11.24	107	62505	24.231	ug/L	96
52) Chlorobenzene	11.66	112	223087	23.129	ug/L	99
53) Ethylbenzene	11.74	91	395111	23.536	ug/L	100
54) m,p-Xylene	11.85	106	150501	23.796	ug/L	100
55) o-xylene	12.17	106	141979	23.817	ug/L	100
56) Styrene	12.19	104	252831	24.168	ug/L	100
57) Isopropylbenzene	12.47	105	406536	23.876	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.72	83	91166	26.785	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	74328	26.902	ug/L	99
62) Bromoform	12.35	173	55367	25.307	ug/L	98
63) 1,3-Dichlorobenzene	13.51	146	172882	22.122	ug/L	98
64) 1,4-Dichlorobenzene	13.58	146	185698	22.754	ug/L	96
65) 1,2-Dichlorobenzene	13.88	146	181028	24.074	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	19403	27.138	ug/L	96
67) 1,3,5-Trichlorobenzene	14.64	180	150881	23.524	ug/L	98
68) 1,2,4-trichlorobenzene	15.15	180	126203	23.953	ug/L	99
69) Naphthalene	15.38	128	280929	26.610	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	123099	24.929	ug/L	98

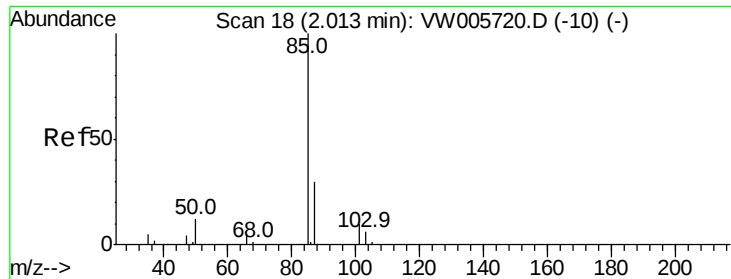
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 21.629 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

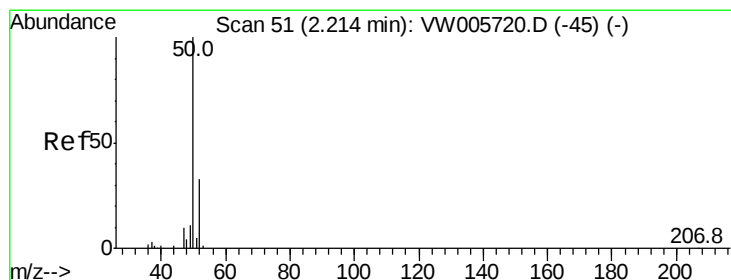
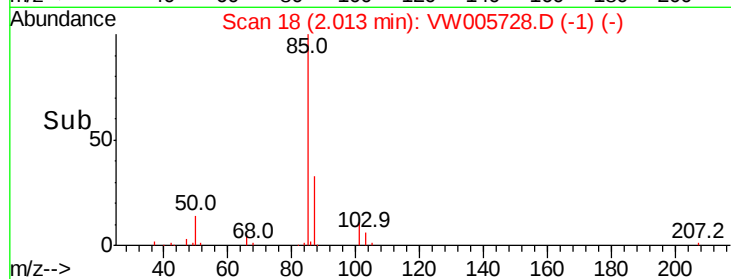
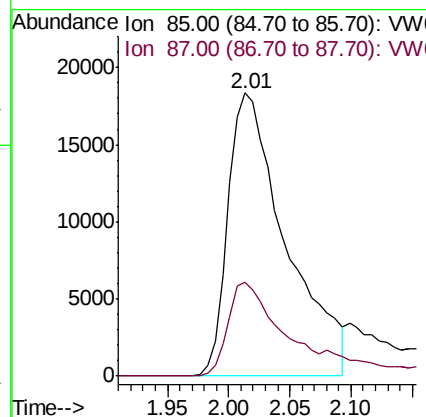
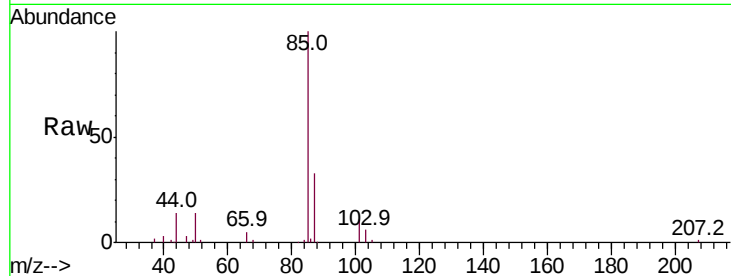
ClientSampled :

Tot Ion: 85 Resp: 60420

Ion Ratio Lower Upper

85 100

87 29.9 19.2 35.6



#3

Chloromethane

Concen: 20.995 ug/L

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW005728.D

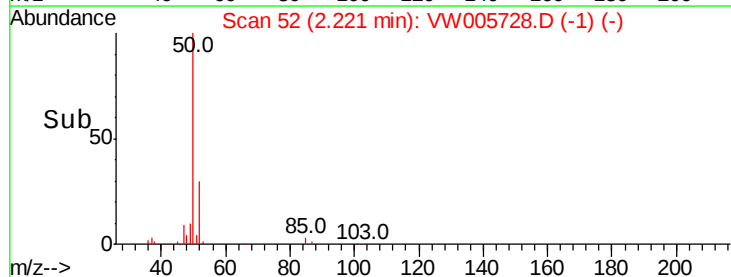
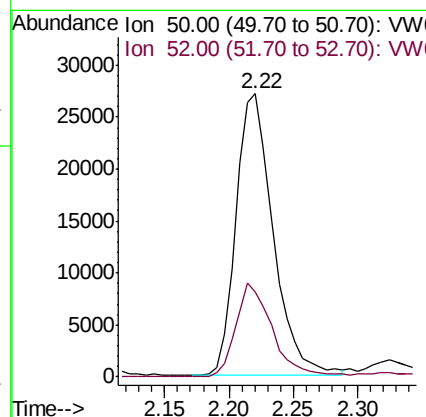
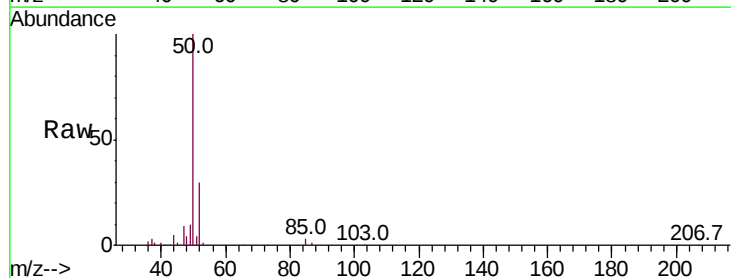
Acq: 28 Sep 2018 19:00

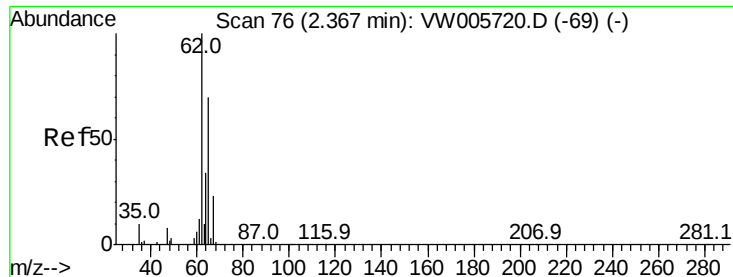
Tgt Ion: 50 Resp: 54632

Ion Ratio Lower Upper

50 100

52 30.1 23.4 43.4





#5

Vinyl chloride

Concen: 22.710 ug/L

RT: 2.37 min Scan# 77

Delta R.T. 0.01 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

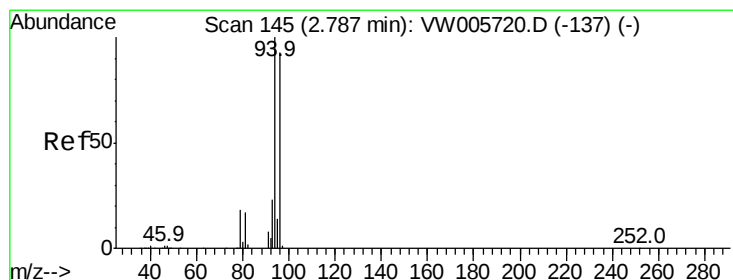
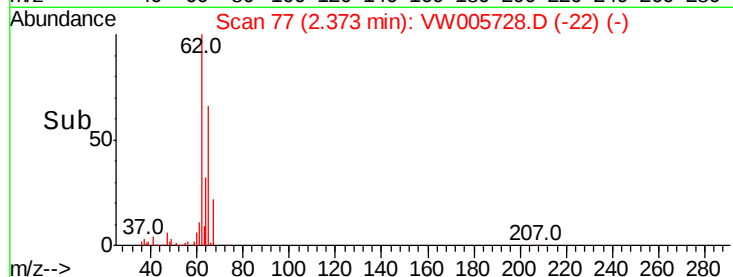
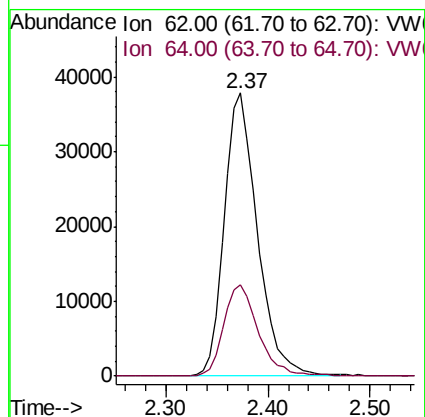
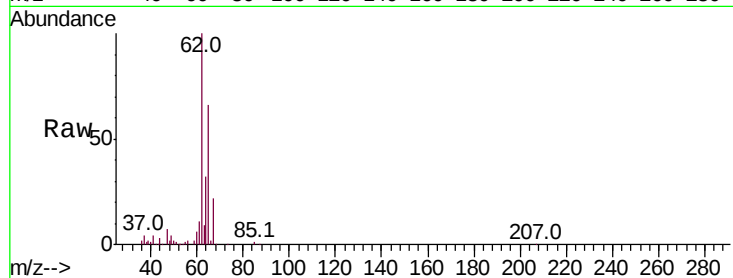
ClientSampled :

Tot Ion: 62 Resp: 85208

Ion Ratio Lower Upper

62 100

64 32.3 24.1 44.7



#6

Bromomethane

Concen: 21.932 ug/L

RT: 2.79 min Scan# 145

Delta R.T. 0.00 min

Lab File: VW005728.D

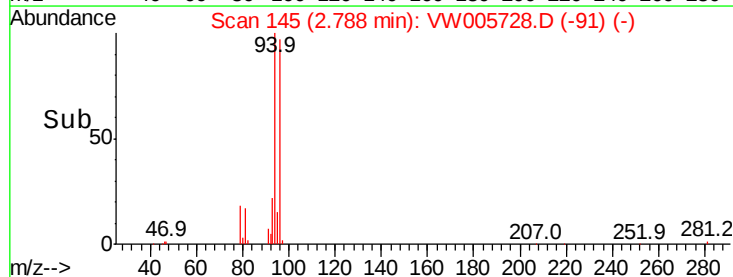
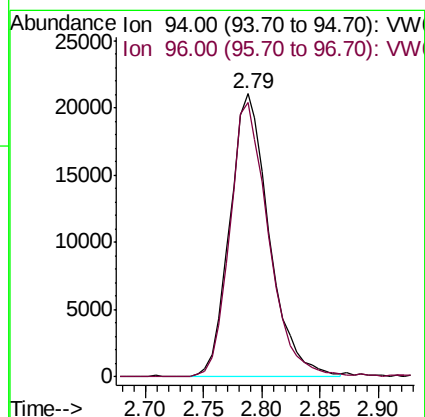
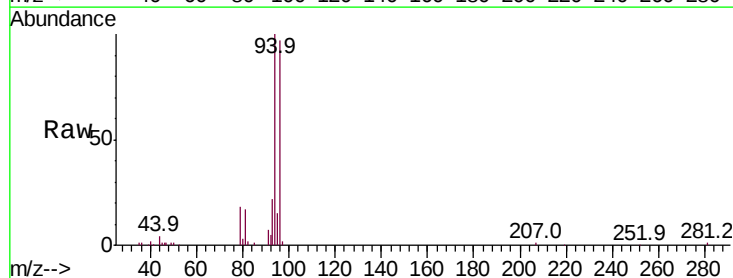
Acq: 28 Sep 2018 19:00

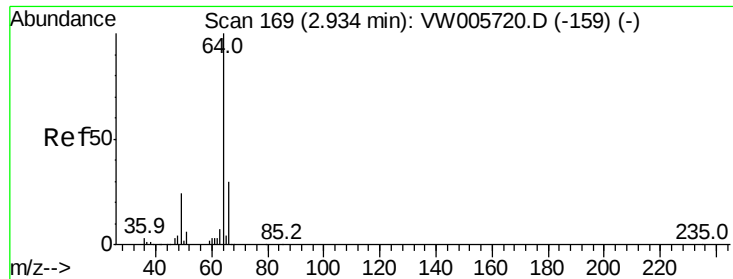
Tgt Ion: 94 Resp: 49511

Ion Ratio Lower Upper

94 100

96 94.8 9.6 181.6





#8

Chloroethane

Concen: 22.338 ug/L

RT: 2.93 min Scan# 169

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

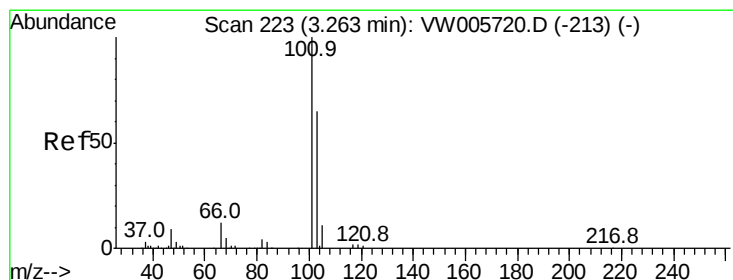
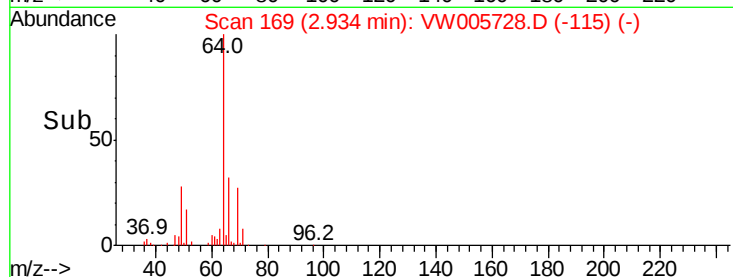
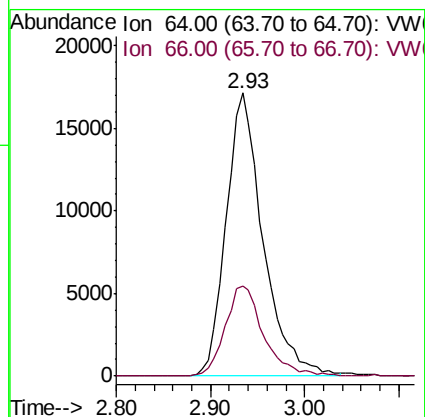
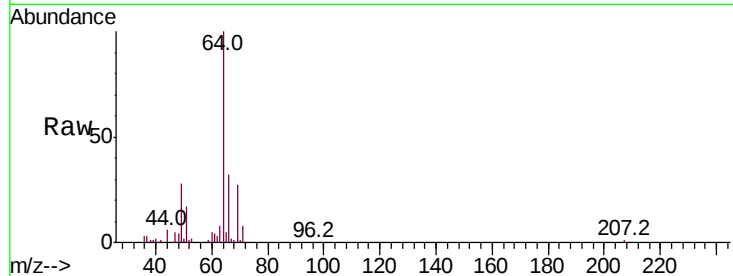
ClientSampleId :

Tot Ion: 64 Resp: 46600

Ion Ratio Lower Upper

64 100

66 32.0 21.1 39.3



#9

Trichlorofluoromethane

Concen: 21.788 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.00 min

Lab File: VW005728.D

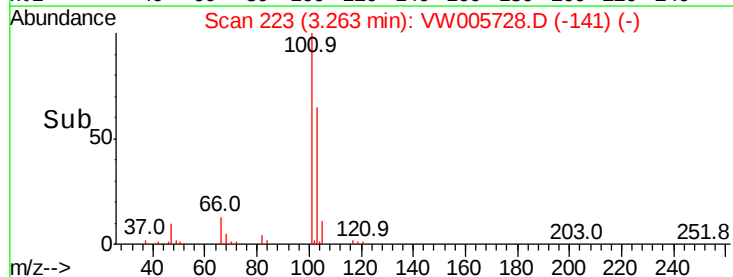
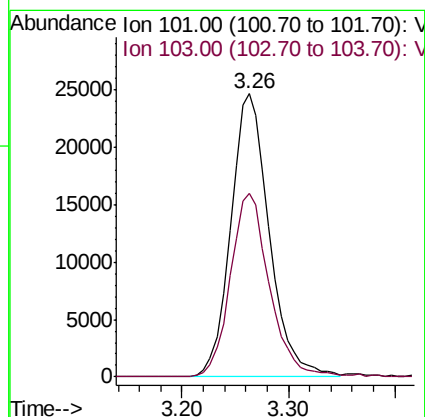
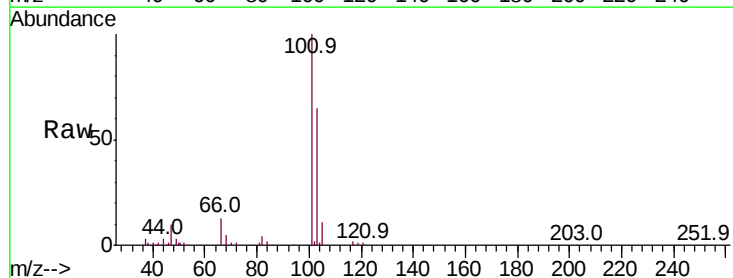
Acq: 28 Sep 2018 19:00

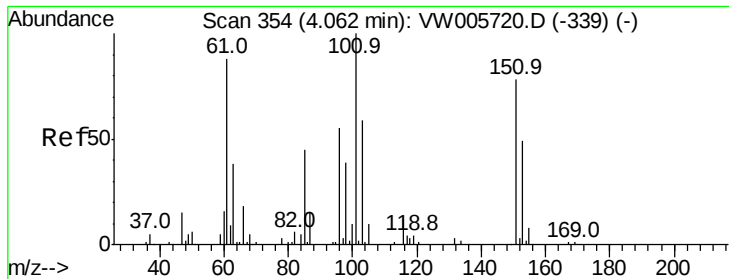
Tgt Ion: 101 Resp: 62463

Ion Ratio Lower Upper

101 100

103 65.7 44.9 83.5





#11

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

Concen: 22.868 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

ClientSampled :

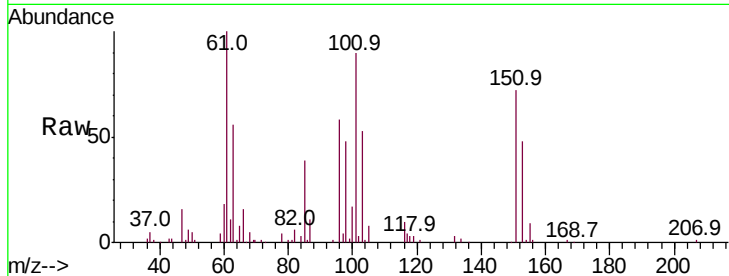
Tot Ion:101 Resp: 74062

Ion Ratio Lower Upper

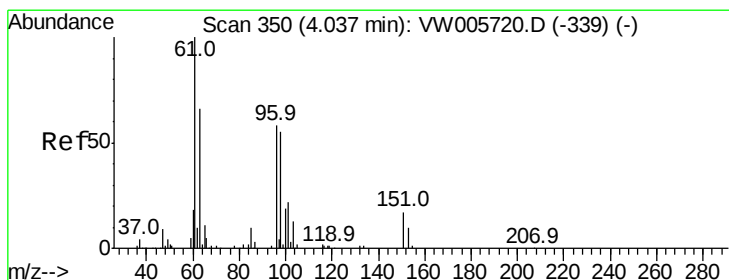
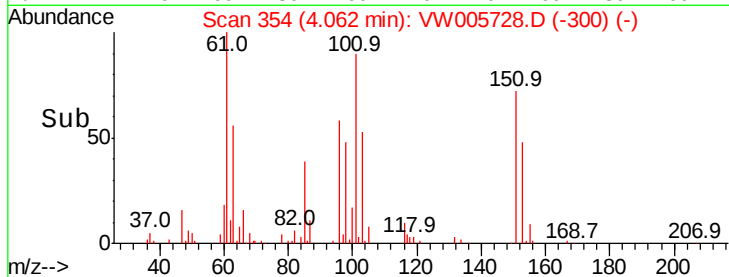
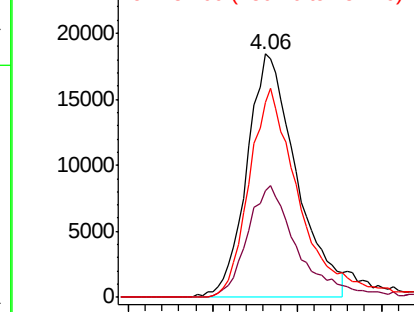
101 100

85 45.7 35.0 52.4

151 86.4 66.4 99.6



Abundance Ion 101.00 (100.70 to 101.70): V
25000
Ion 85.00 (84.70 to 85.70): VW
Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 22.380 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

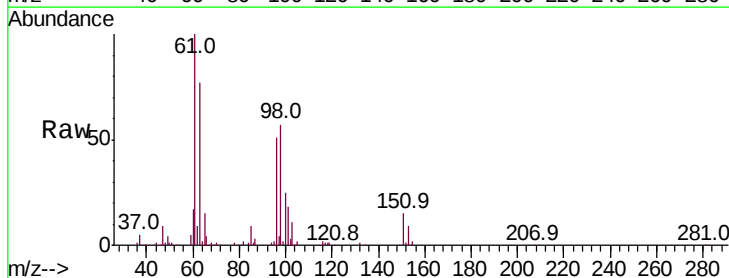
Tgt Ion: 96 Resp: 69225

Ion Ratio Lower Upper

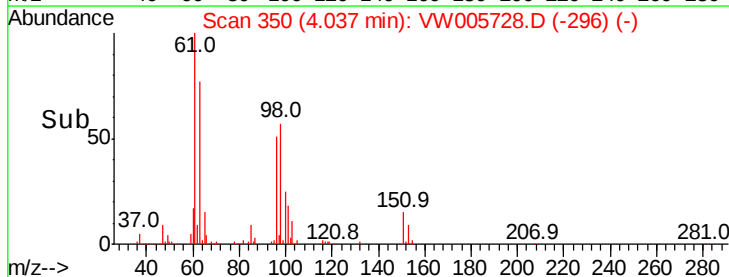
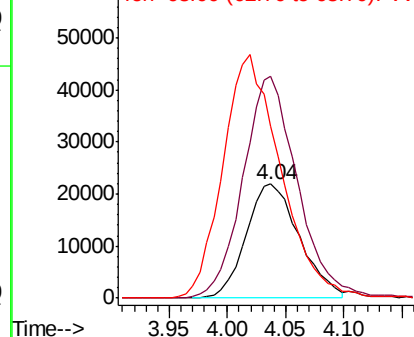
96 100

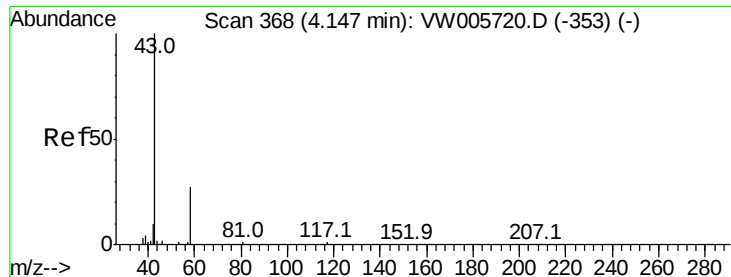
61 194.8 121.4 225.6

63 150.9 87.2 161.9



Abundance Ion 96.00 (95.70 to 96.70): VW
60000
Ion 61.00 (60.70 to 61.70): VW
Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 54.423 ug/L

RT: 4.13 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

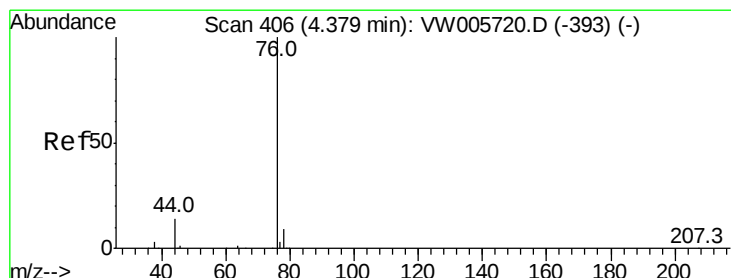
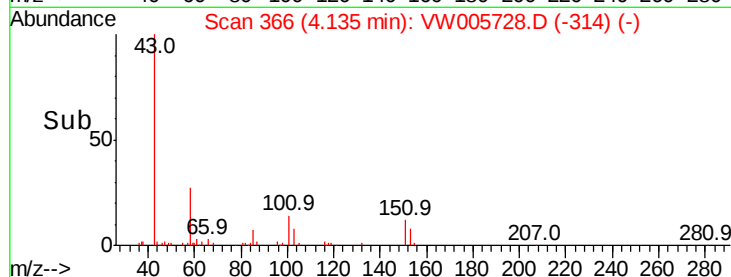
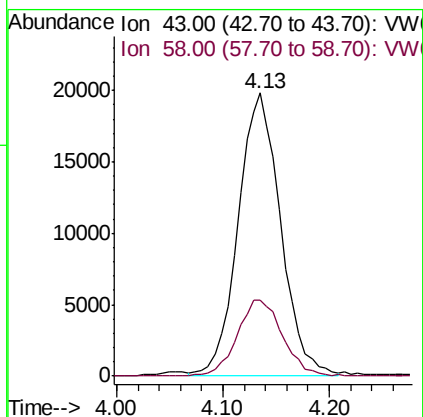
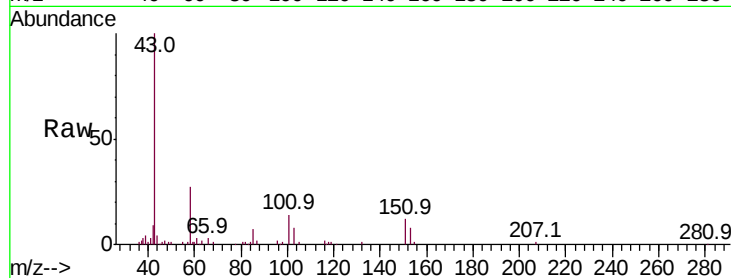
ClientSampled :

Tot Ion: 43 Resp: 55255

Ion Ratio Lower Upper

43 100

58 28.4 0.0 31.8



#14

Carbon disulfide

Concen: 21.751 ug/L

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW005728.D

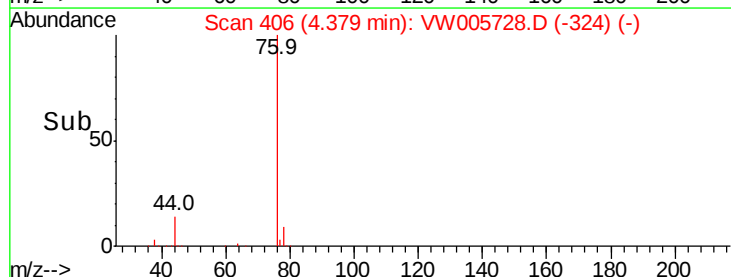
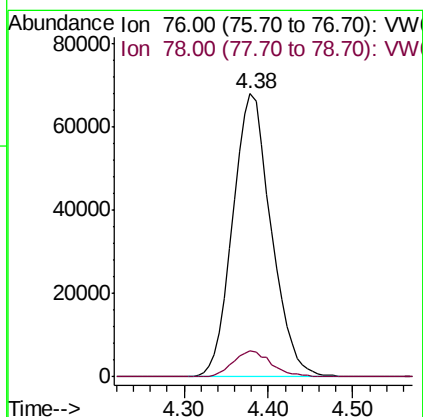
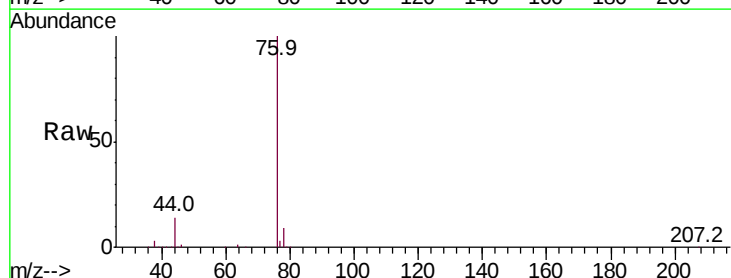
Acq: 28 Sep 2018 19:00

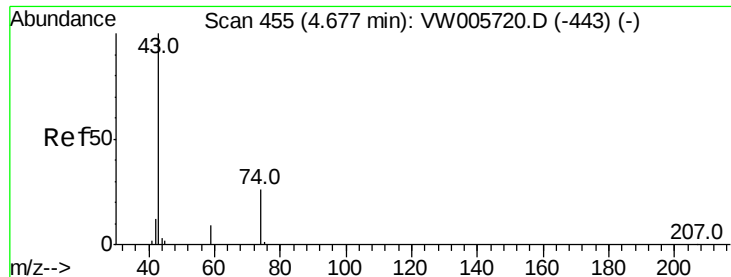
Tgt Ion: 76 Resp: 210955

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7





#15

Methyl Acetate

Concen: 28.514 ug/L

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

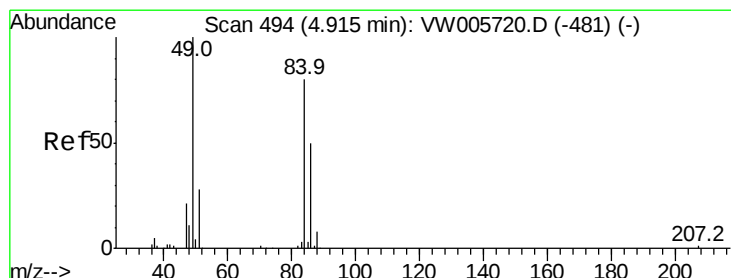
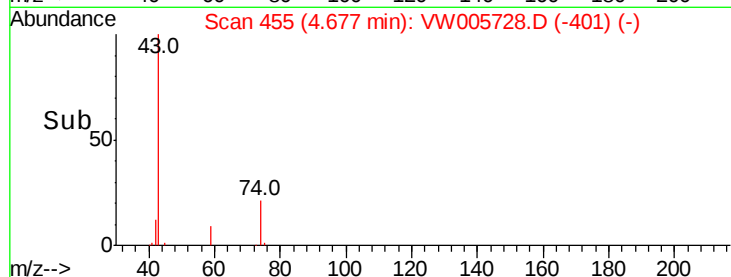
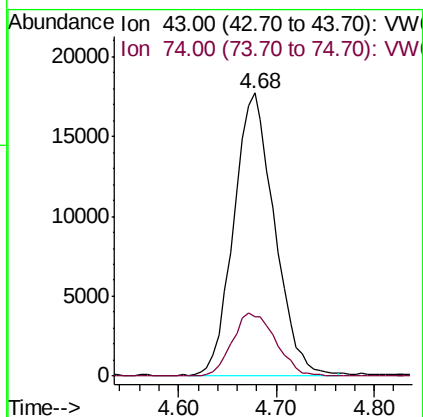
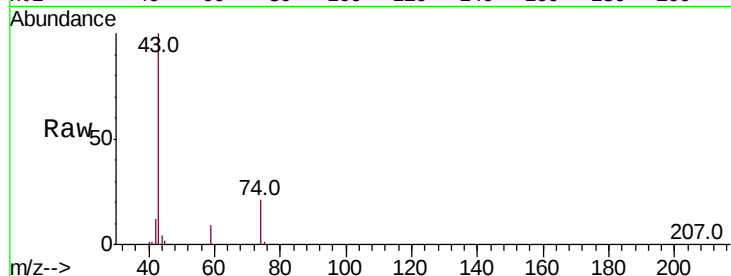
ClientSampled :

Tot Ion: 43 Resp: 51377

Ion Ratio Lower Upper

43 100

74 23.5 19.5 29.3



#16

Methylene chloride

Concen: 20.373 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

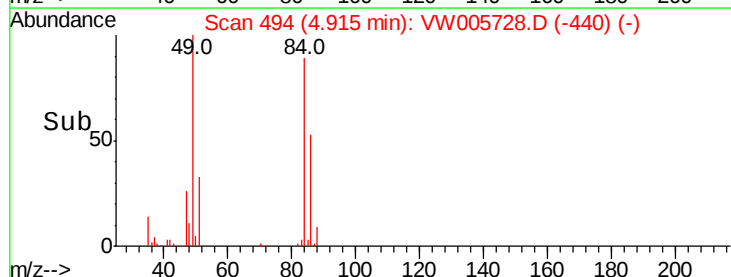
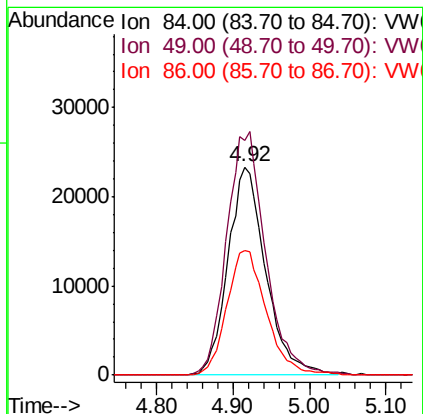
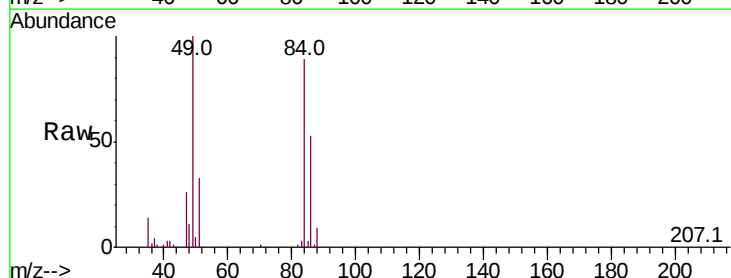
Tgt Ion: 84 Resp: 80026

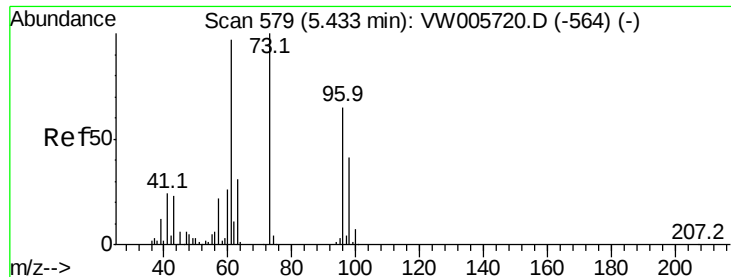
Ion Ratio Lower Upper

84 100

49 112.8 87.2 162.0

86 59.8 43.2 80.2

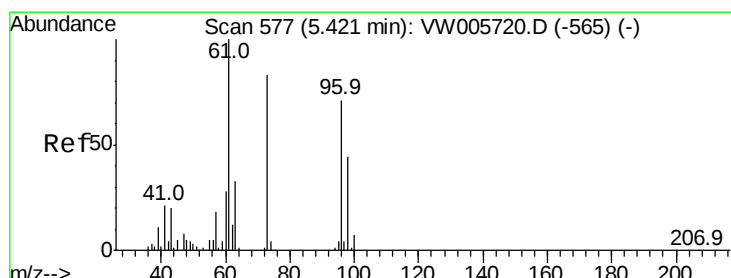
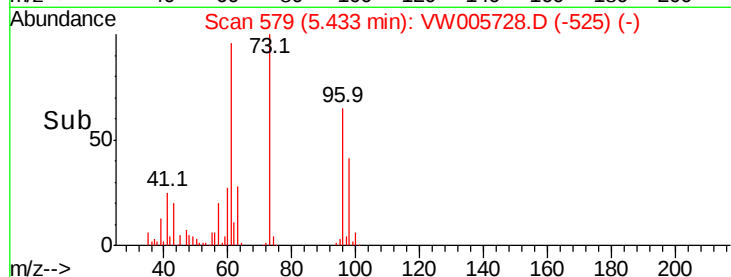
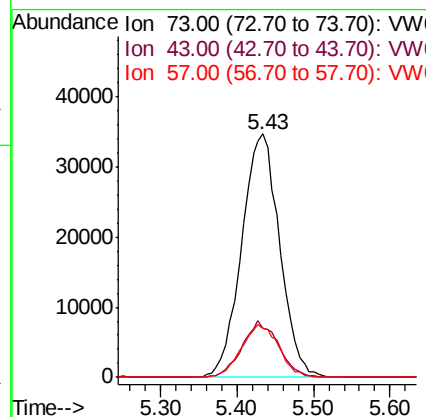
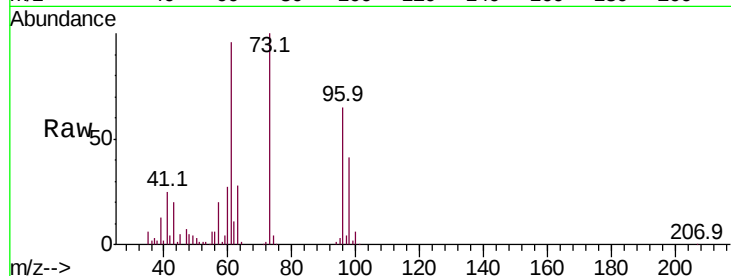




#17
Methvl tert-butvl Ether
Concen: 24.315 ug/L
RT: 5.43 min Scan# 579
Delta R.T. 0.00 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

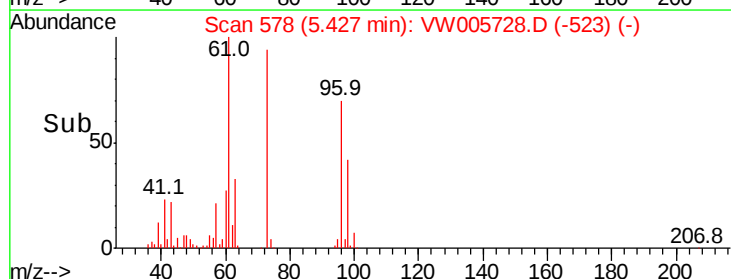
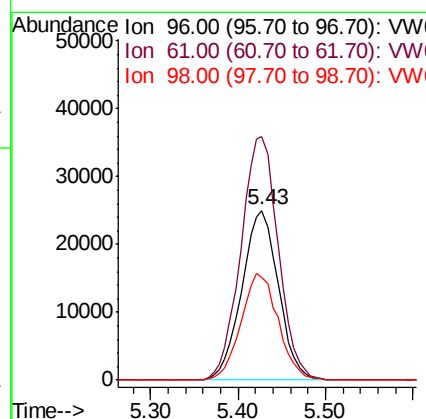
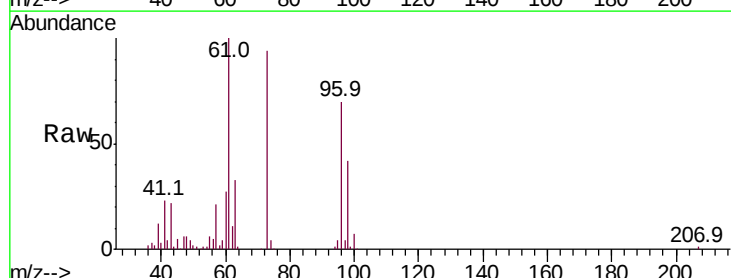
Instrument :
MSVOA_W
ClientSampled :

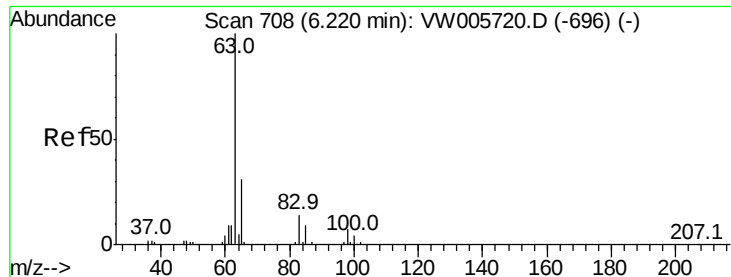
Tot Ion: 73 Resp: 119668
Ion Ratio Lower Upper
73 100
43 22.2 18.2 27.4
57 21.6 17.5 26.3



#18
trans-1,2-Dichloroethene
Concen: 22.909 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

Tgt Ion: 96 Resp: 72877
Ion Ratio Lower Upper
96 100
61 143.8 98.6 183.2
98 60.8 43.7 81.1





#19

1,1-Dichloroethane

Concen: 23.624 ug/L

RT: 6.22 min Scan# 708

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

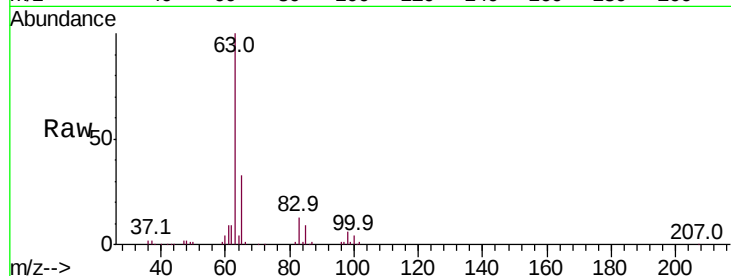
Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 63 Resp: 139057

Ion	Ratio	Lower	Upper
63	100		
65	33.4	21.8	40.4
83	13.3	9.7	18.1

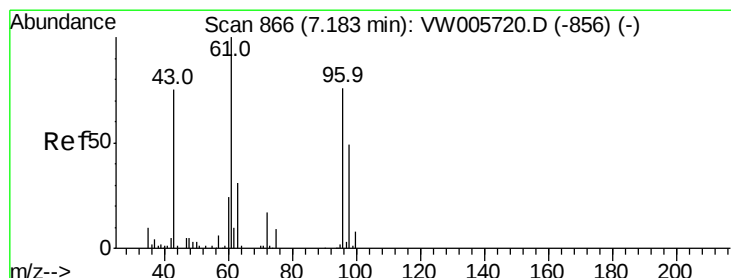
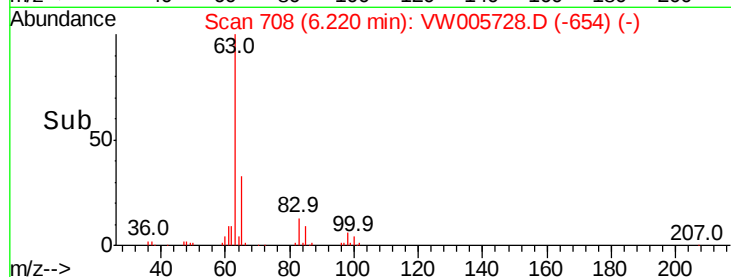
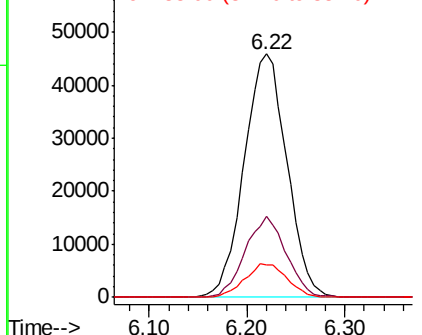


Abundance

Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 51.031 ug/L

RT: 7.18 min Scan# 865

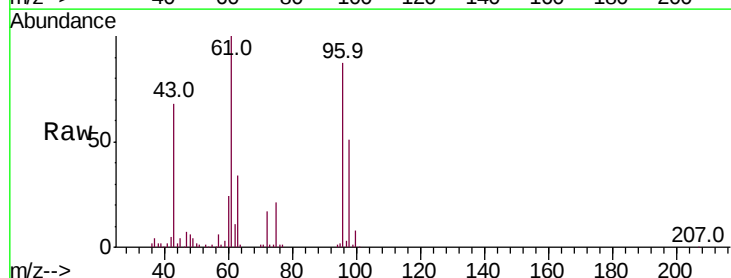
Delta R.T. -0.01 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Tgt Ion: 43 Resp: 62049

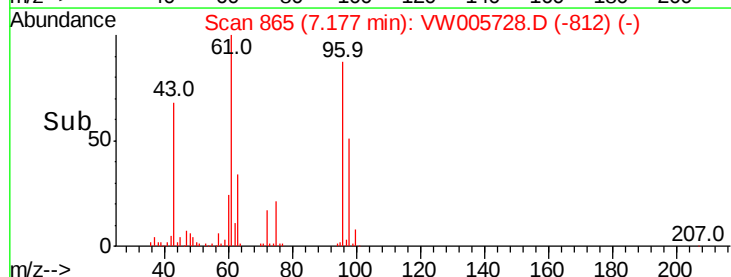
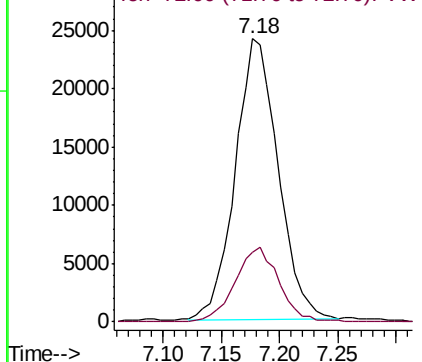
Ion	Ratio	Lower	Upper
43	100		
72	26.6	13.2	39.6

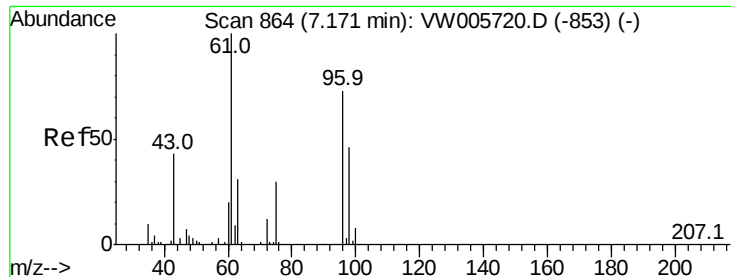


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



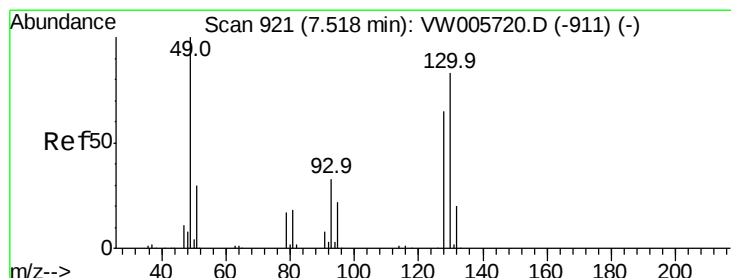
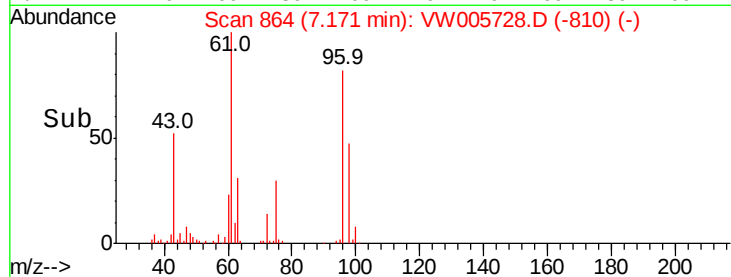
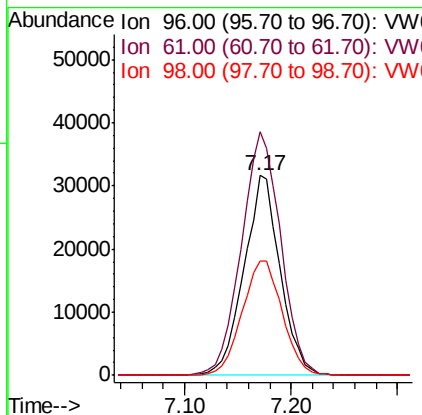
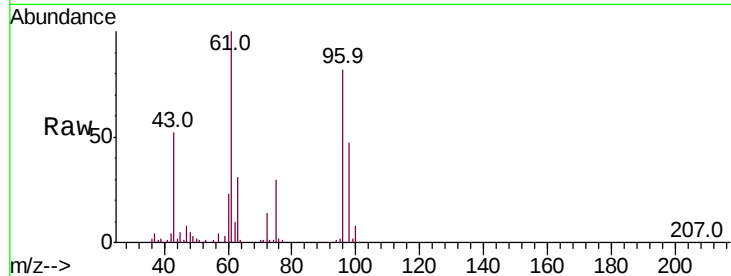


#22

cis-1,2-Dichloroethene
Concen: 21.874 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

Instrument :
MSVOA_W
ClientSampled :

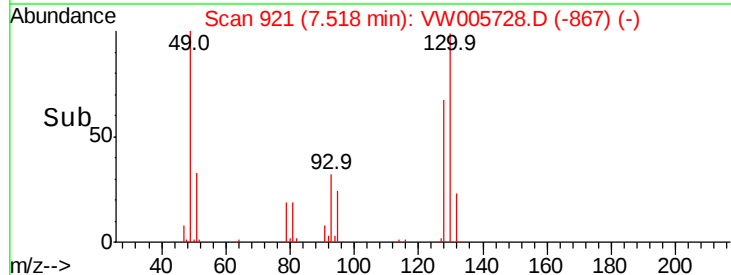
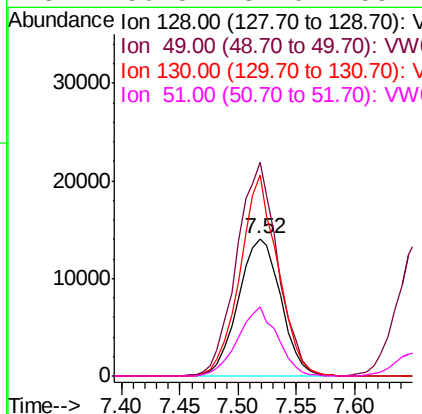
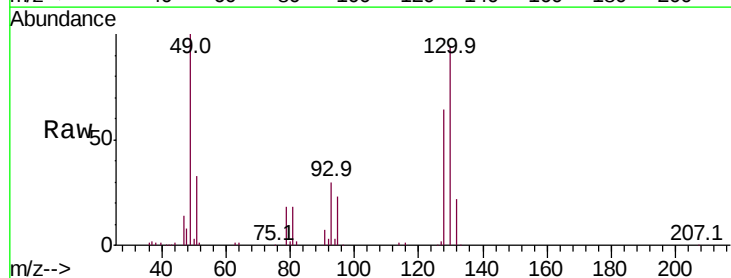
Tot Ion: 96 Resp: 75639
Ion Ratio Lower Upper
96 100
61 121.7 95.7 177.7
98 57.0 44.1 81.9

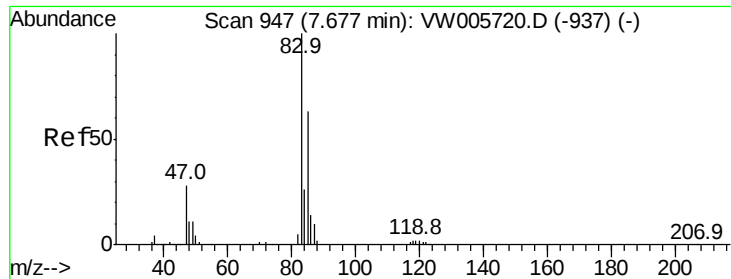


#23

Bromochloromethane
Concen: 22.309 ug/L
RT: 7.52 min Scan# 921
Delta R.T. 0.00 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

Tgt Ion: 128 Resp: 35802
Ion Ratio Lower Upper
128 100
49 155.5 108.1 200.7
130 146.6 89.3 165.9
51 50.8 37.0 55.4

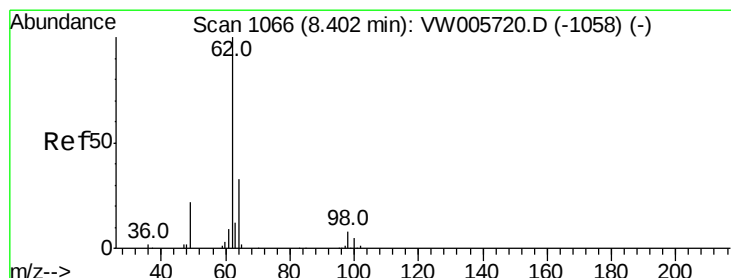
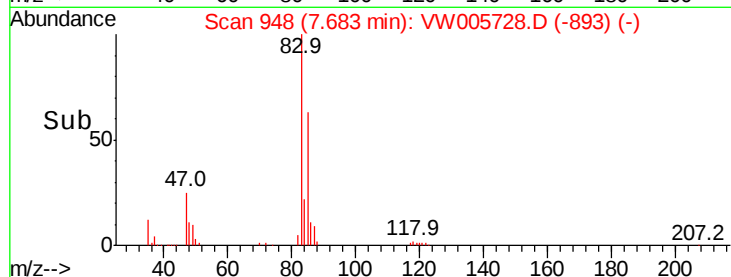
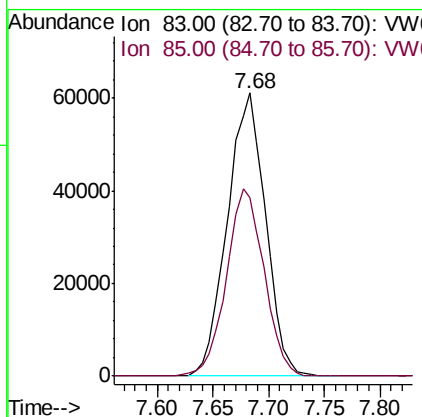
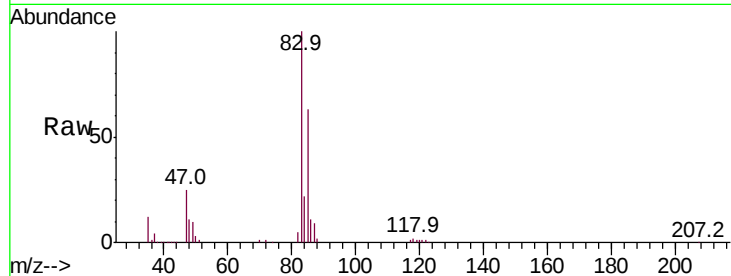




#25
Chloroform
Concen: 23.101 ug/L
RT: 7.68 min Scan# 948
Delta R.T. 0.01 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

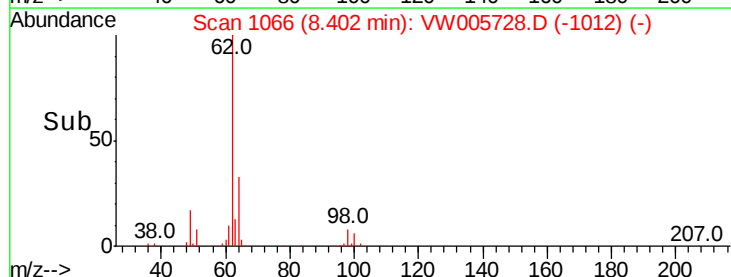
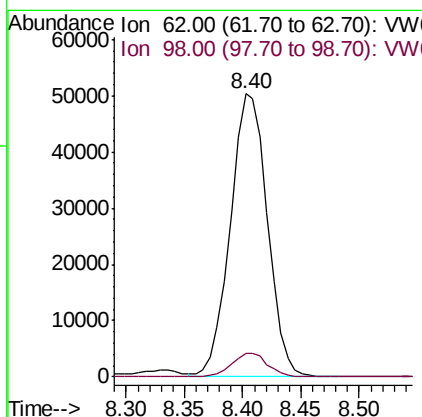
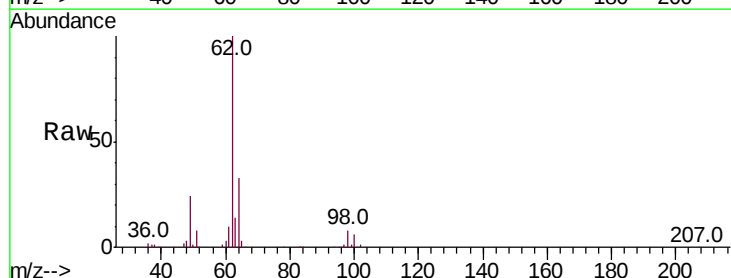
Instrument :
MSVOA_W
ClientSampleId :

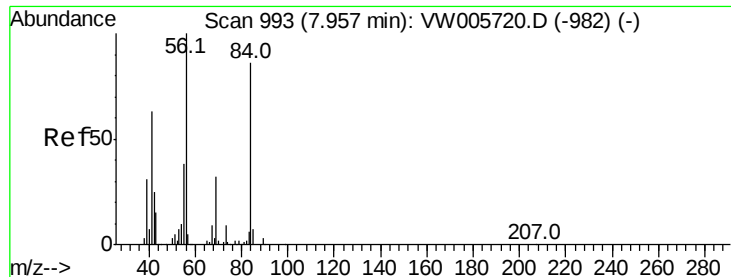
Tot Ion: 83 Resp: 145489
Ion Ratio Lower Upper
83 100
85 65.4 46.0 85.4



#27
1,2-Dichloroethane
Concen: 24.084 ug/L
RT: 8.40 min Scan# 1066
Delta R.T. 0.00 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

Tgt Ion: 62 Resp: 111679
Ion Ratio Lower Upper
62 100
98 8.4 6.2 9.2

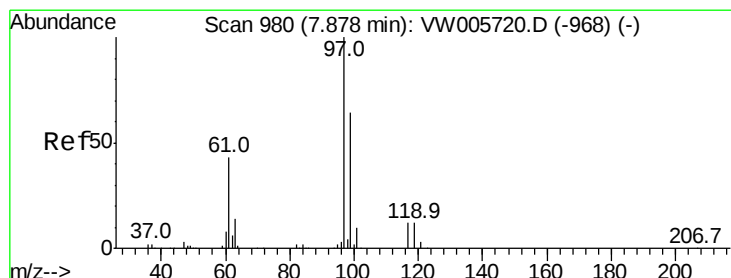
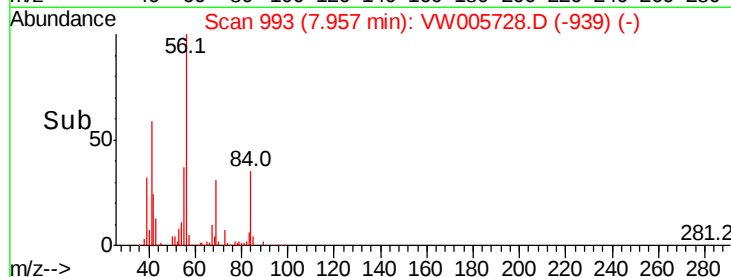
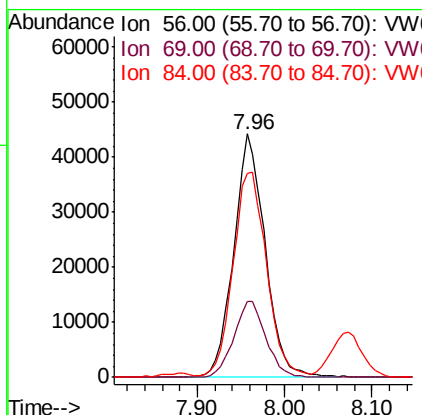
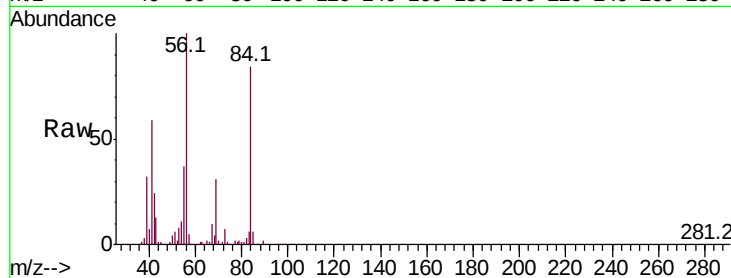




#30
Cyclohexane
Concen: 20.954 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

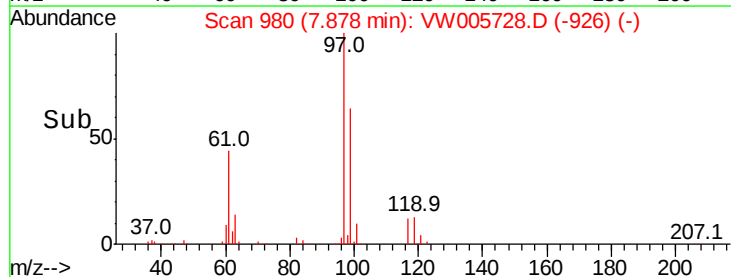
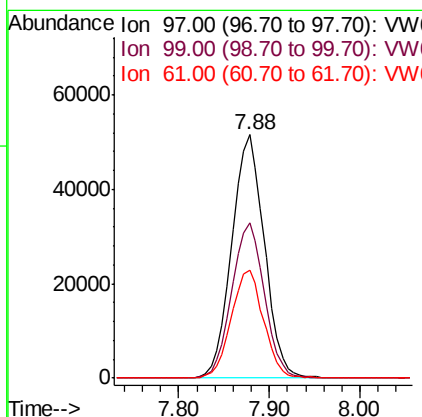
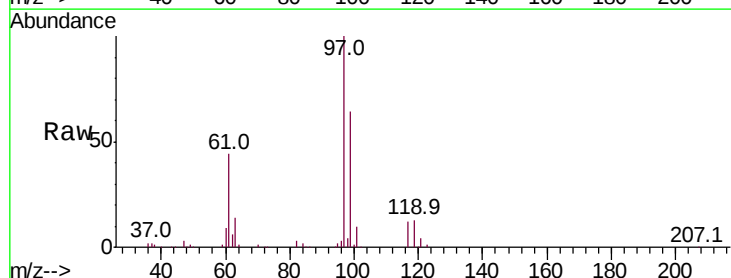
Instrument :
MSVOA_W
ClientSampleId :

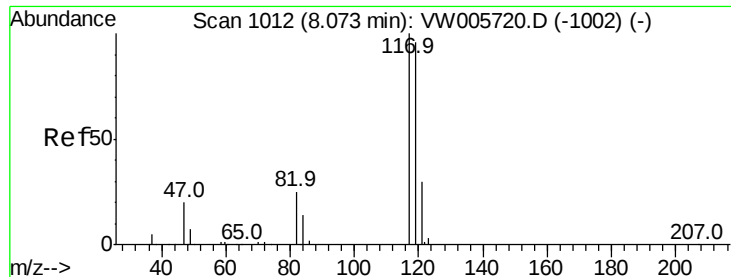
Tot Ion: 56 Resp: 110278
Ion Ratio Lower Upper
56 100
69 31.7 25.0 37.6
84 90.2 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 22.576 ug/L
RT: 7.88 min Scan# 980
Delta R.T. 0.00 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

Tgt Ion: 97 Resp: 128372
Ion Ratio Lower Upper
97 100
99 64.1 51.8 77.8
61 44.0 35.4 53.2





#32

Carbon tetrachloride

Concen: 22.726 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

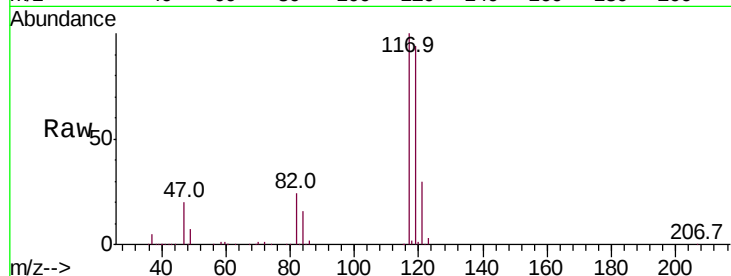
ClientSampled :

Tot Ion:117 Resp: 125843

Ion Ratio Lower Upper

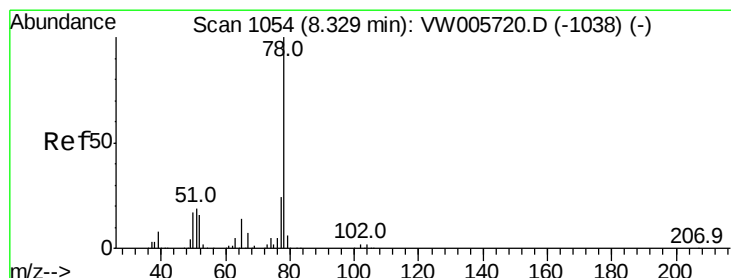
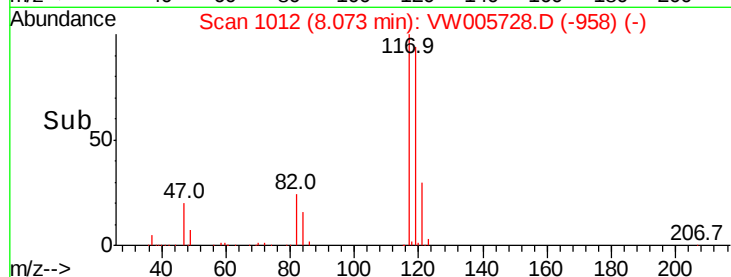
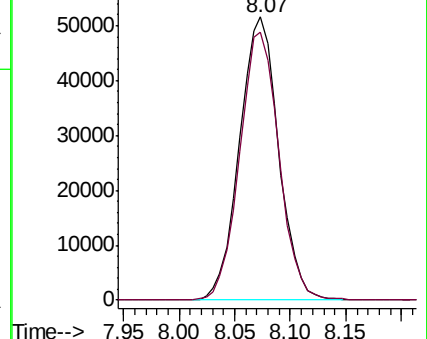
117 100

119 95.2 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 22.739 ug/L

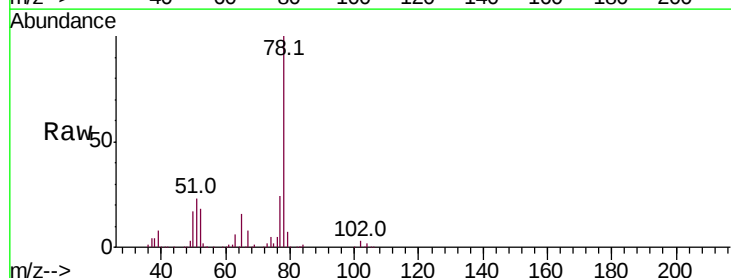
RT: 8.33 min Scan# 1054

Delta R.T. 0.00 min

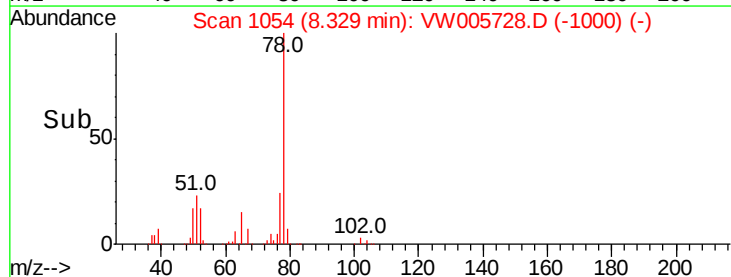
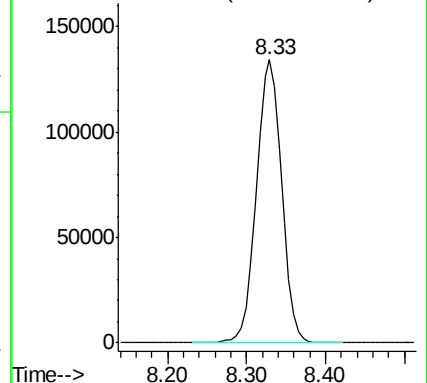
Lab File: VW005728.D

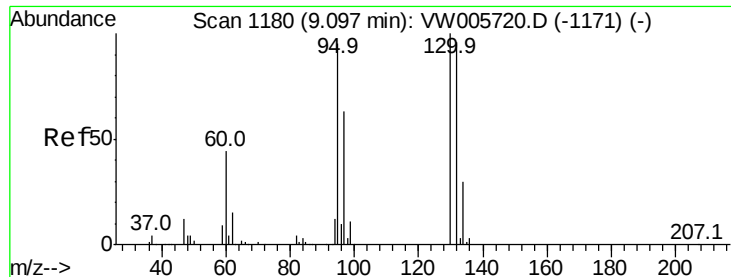
Acq: 28 Sep 2018 19:00

Tgt Ion: 78 Resp: 298339



Abundance Ion 78.00 (77.70 to 78.70): VW



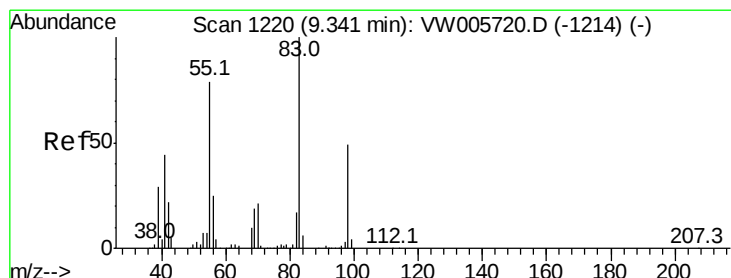
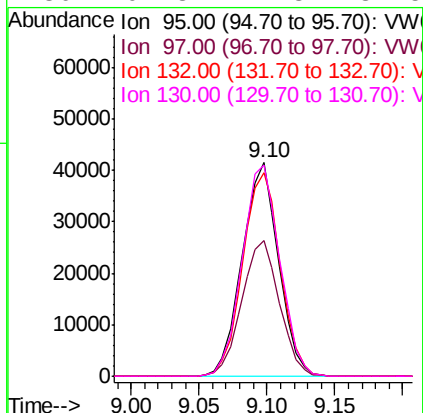
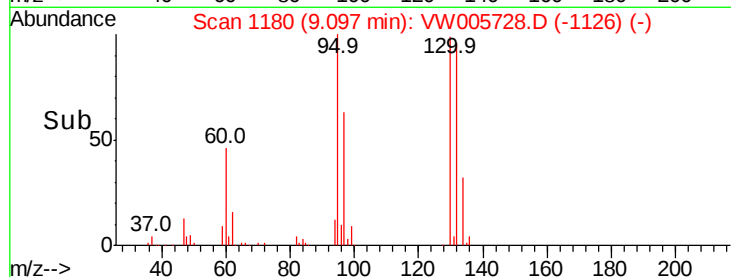
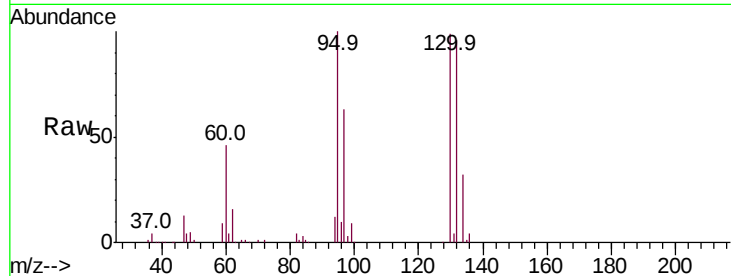


#35
 Trichloroethene
 Concen: 22.145 ug/L
 RT: 9.10 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion: 95 Resp: 77730

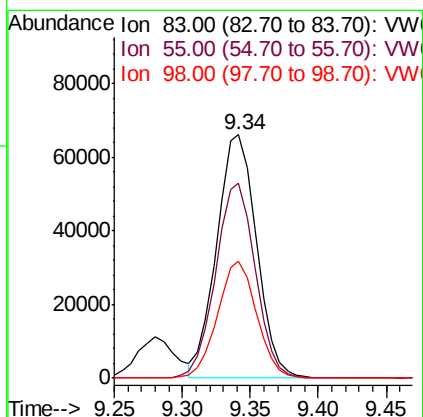
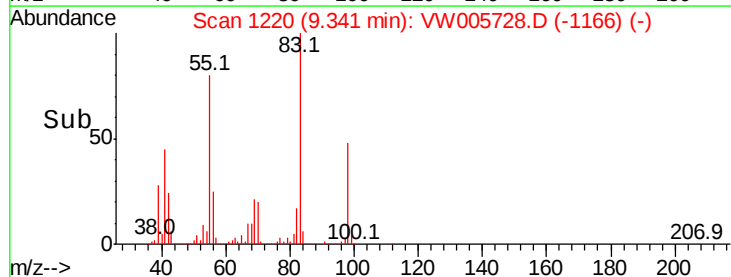
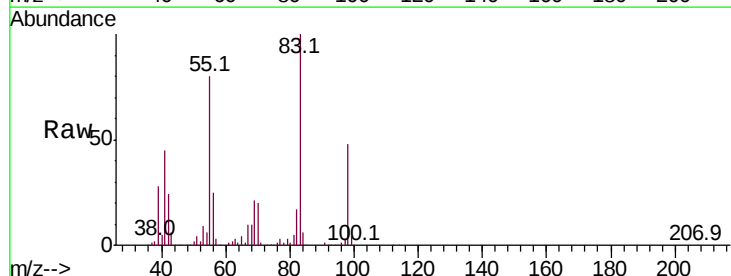
Ion	Ratio	Lower	Upper
95	100		
97	65.7	45.2	84.0
132	98.5	68.0	126.4
130	102.3	71.3	132.5

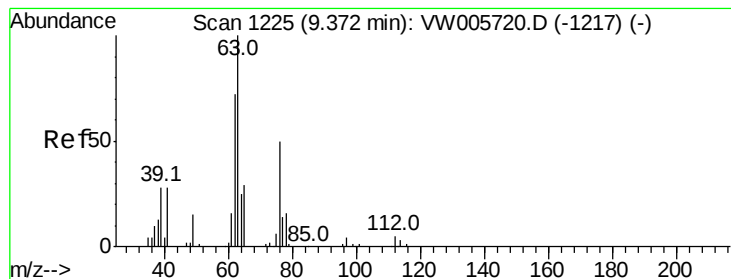


#36
 Methylcyclohexane
 Concen: 22.061 ug/L
 RT: 9.34 min Scan# 1220
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

Tgt Ion: 83 Resp: 134649

Ion	Ratio	Lower	Upper
83	100		
55	80.0	62.5	93.7
98	46.6	37.7	56.5





#40

1,2-Dichloropropane

Concen: 22.747 ug/L

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

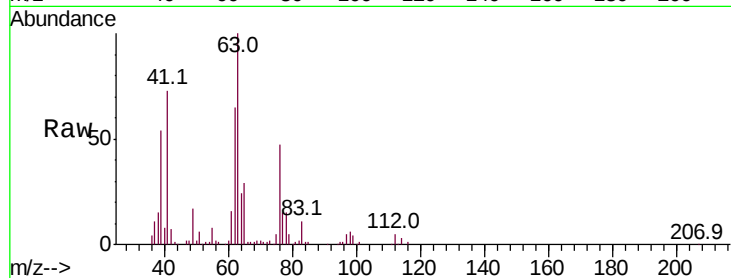
ClientSampleId :

Tot Ion: 63 Resp: 72732

Ion Ratio Lower Upper

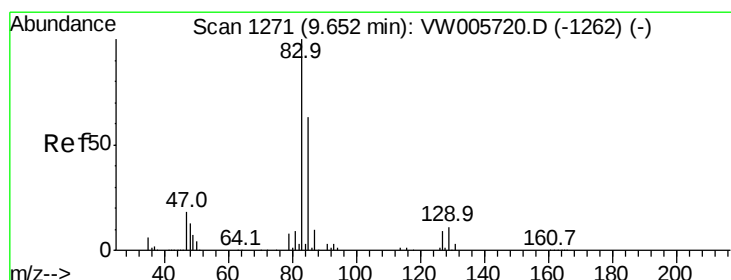
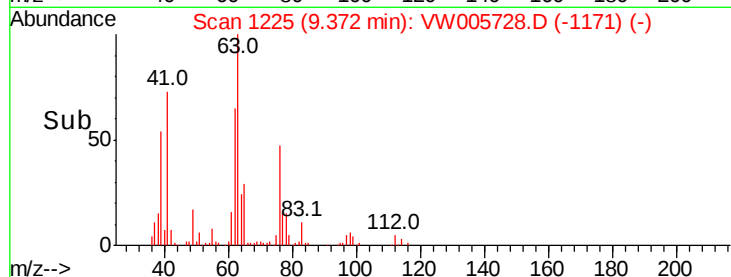
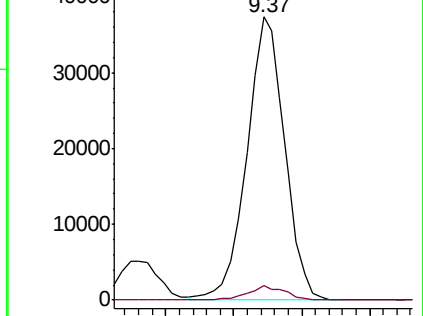
63 100

112 4.9 3.4 5.2



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 22.972 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

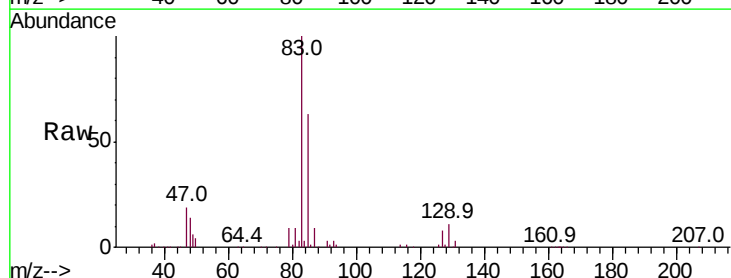
Tgt Ion: 83 Resp: 103269

Ion Ratio Lower Upper

83 100

85 63.1 44.1 81.9

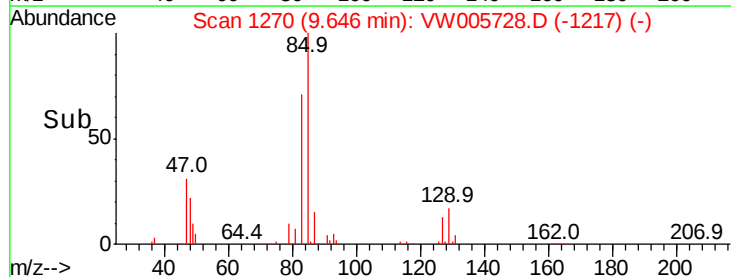
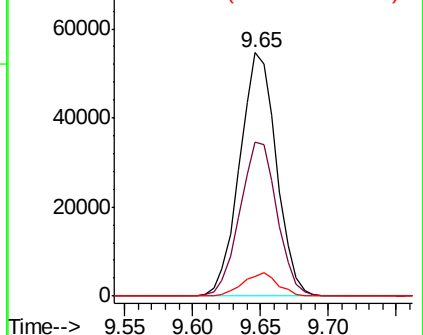
127 8.2 7.5 11.3

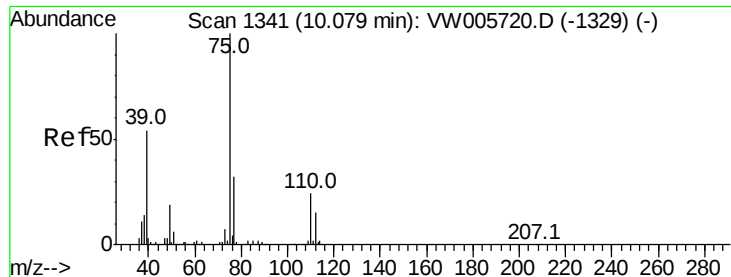


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 23.690 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

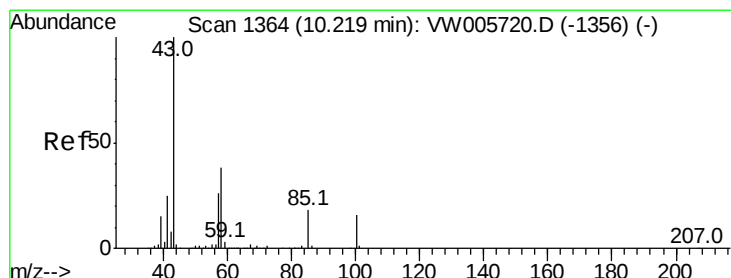
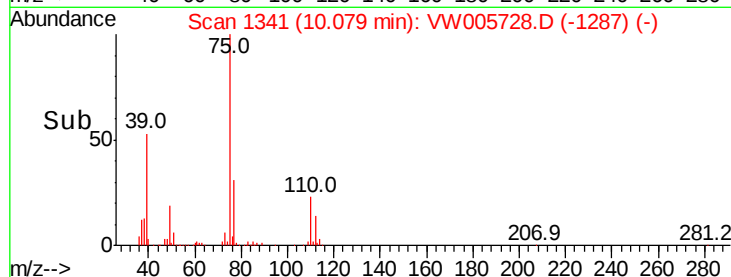
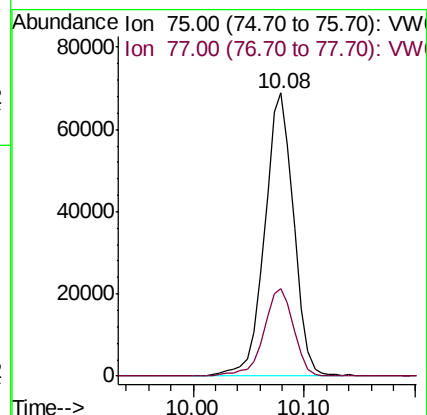
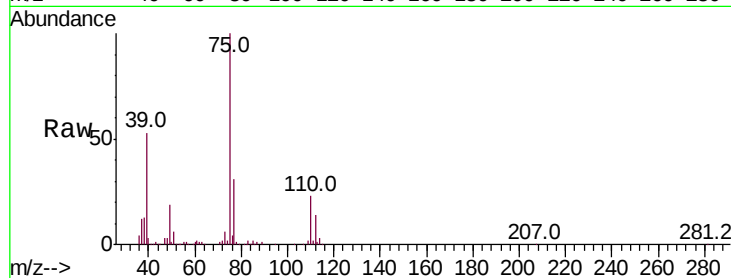
ClientSampleId :

Tot Ion: 75 Resp: 125091

Ion Ratio Lower Upper

75 100

77 30.7 22.3 41.3



#43

4-Methyl-2-pentanone

Concen: 54.508 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

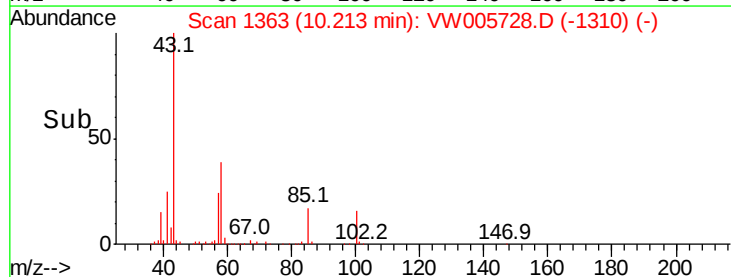
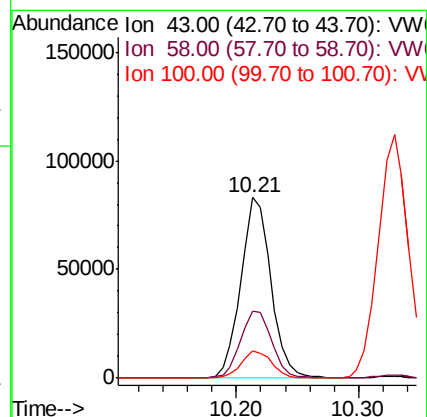
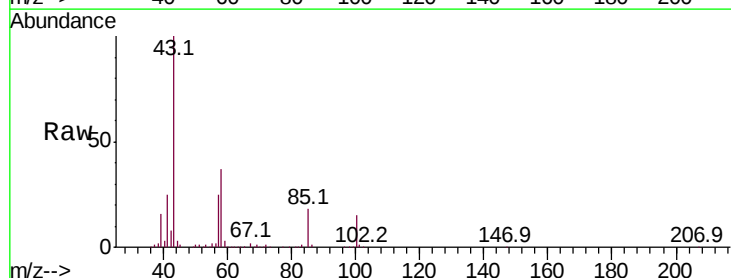
Tgt Ion: 43 Resp: 142227

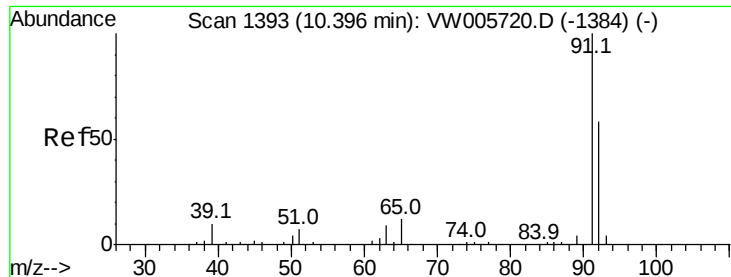
Ion Ratio Lower Upper

43 100

58 38.4 29.8 44.8

100 15.4 12.2 18.4





#44

Toluene

Concen: 23.493 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

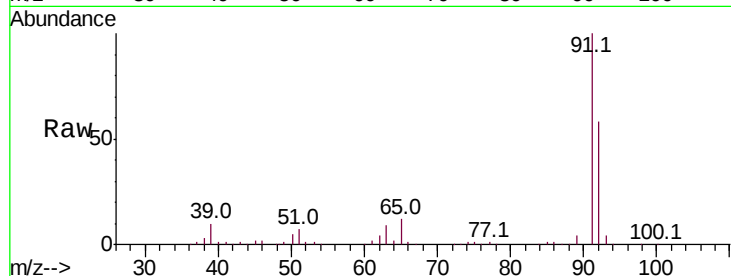
ClientSampled :

Tot Ion: 91 Resp: 344451

Ion Ratio Lower Upper

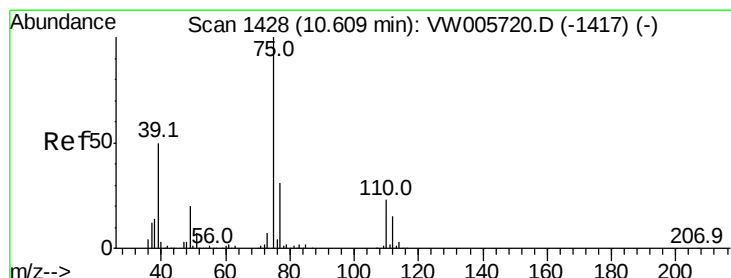
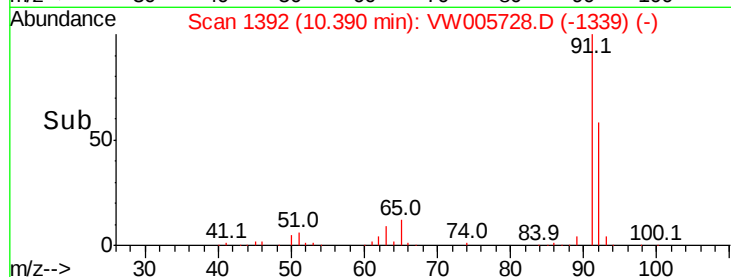
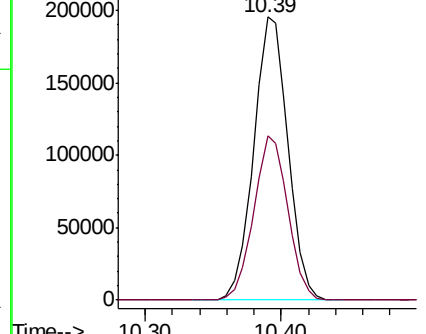
91 100

92 57.9 40.7 75.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW



#45

trans-1,3-Dichloropropene

Concen: 24.177 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW005728.D

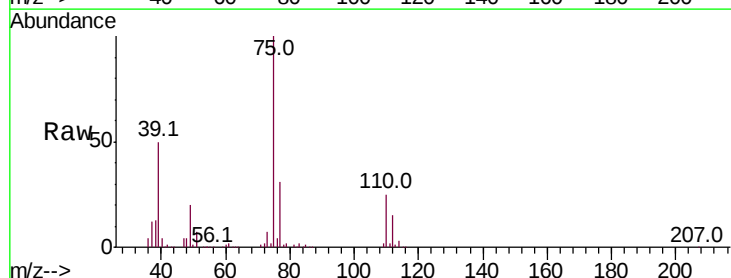
Acq: 28 Sep 2018 19:00

Tgt Ion: 75 Resp: 118872

Ion Ratio Lower Upper

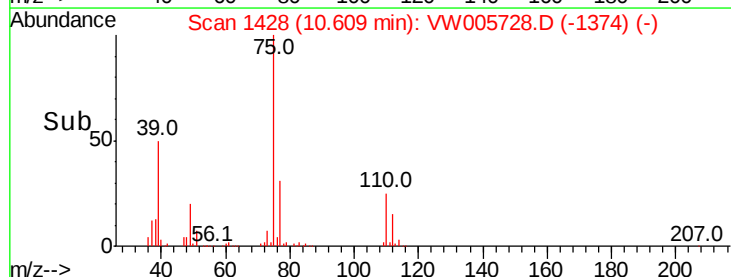
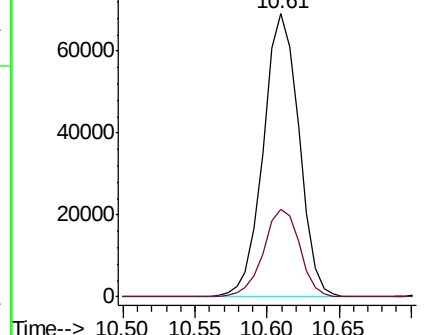
75 100

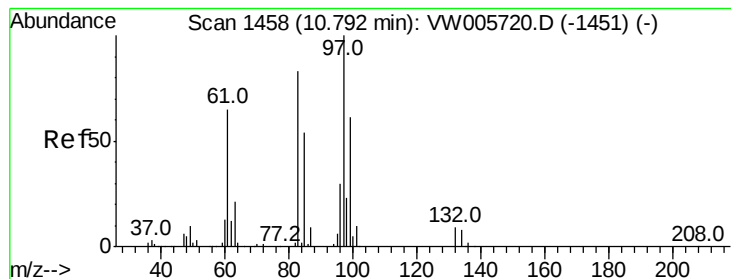
77 30.9 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#46

1,1,2-Trichloroethane

Concen: 24.243 ug/L

RT: 10.79 min Scan# 1458

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 64683

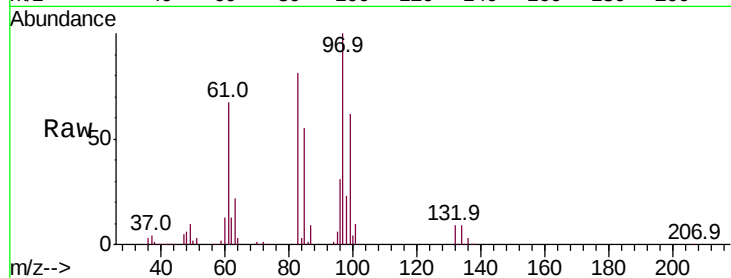
Ion Ratio Lower Upper

97 100

83 80.8 58.3 108.3

85 54.8 38.0 70.6

99 61.6 42.8 79.4



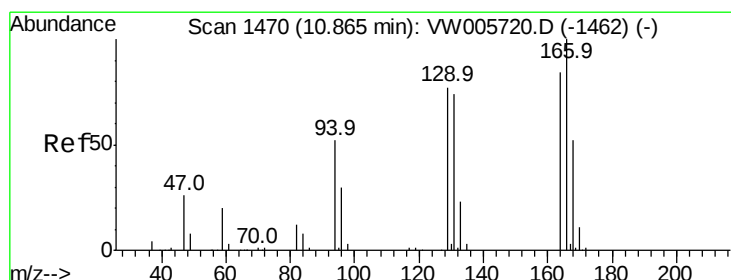
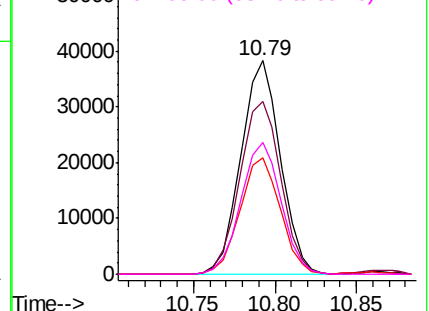
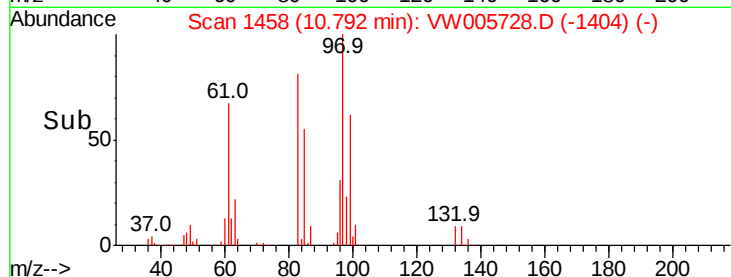
Abundance

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: 23.017 ug/L

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Tgt Ion: 164 Resp: 71178

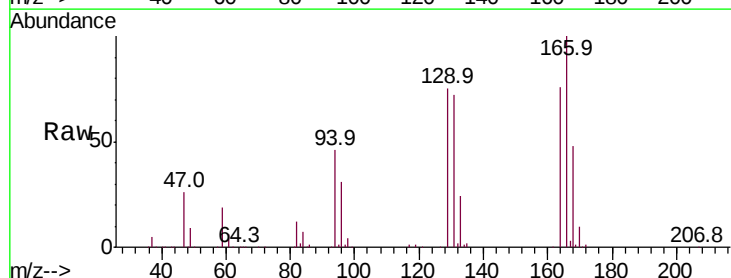
Ion Ratio Lower Upper

164 100

129 97.4 63.8 118.4

131 93.8 61.5 114.3

166 130.7 83.2 154.6



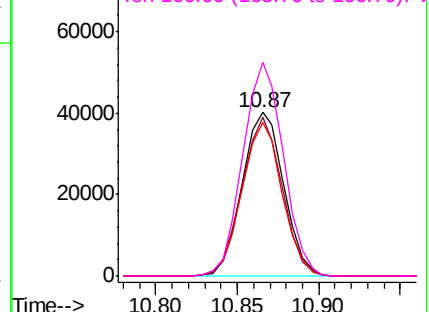
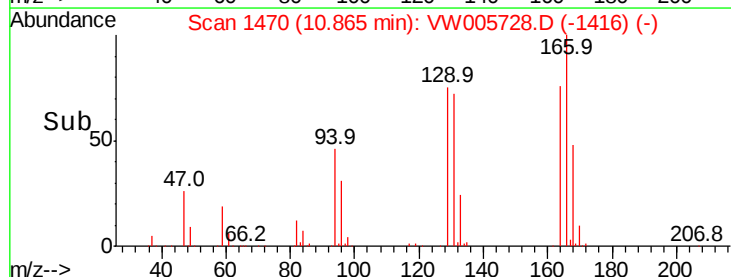
Abundance

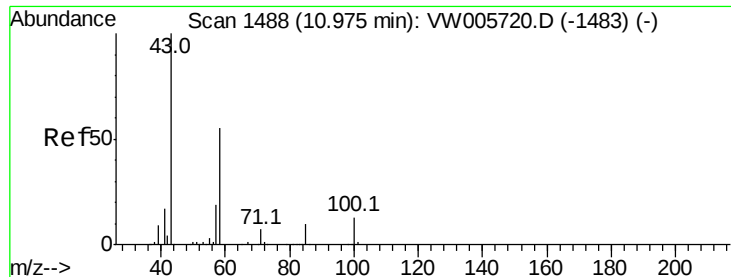
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 59.192 ug/L

RT: 10.98 min Scan# 1488

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 43 Resp: 108416

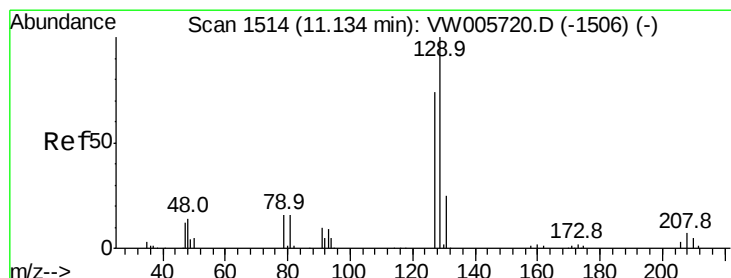
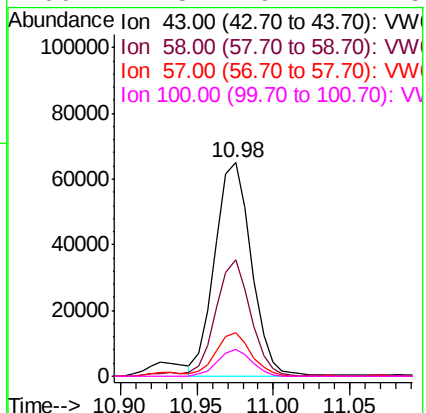
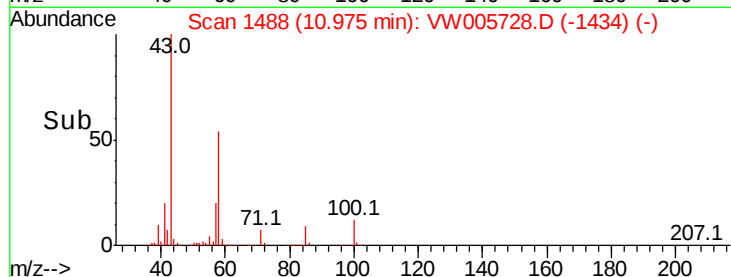
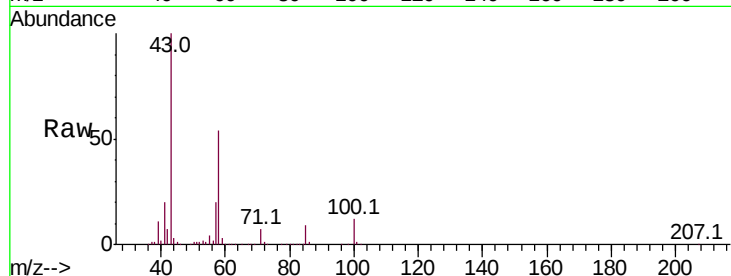
Ion Ratio Lower Upper

43 100

58 51.5 42.0 63.0

57 19.4 15.7 23.5

100 11.8 9.7 14.5



#50

Dibromochloromethane

Concen: 24.112 ug/L

RT: 11.13 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VW005728.D

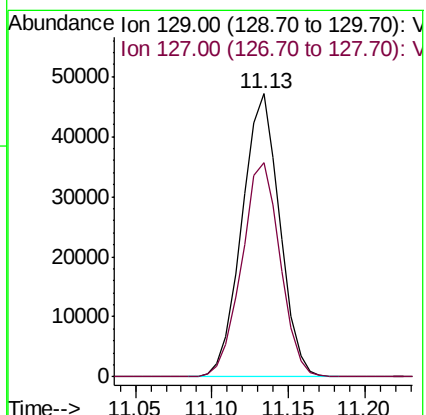
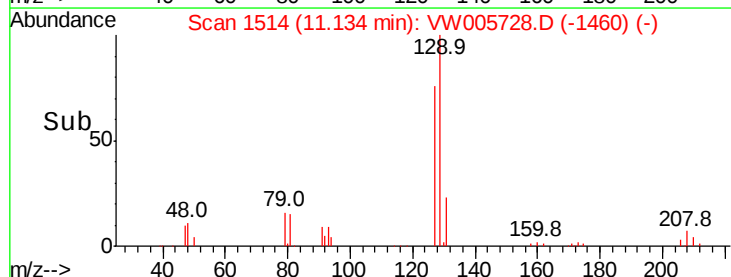
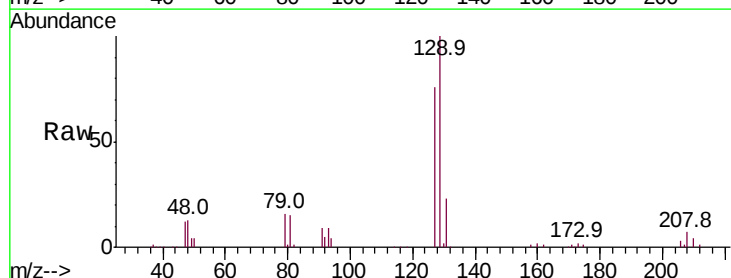
Acq: 28 Sep 2018 19:00

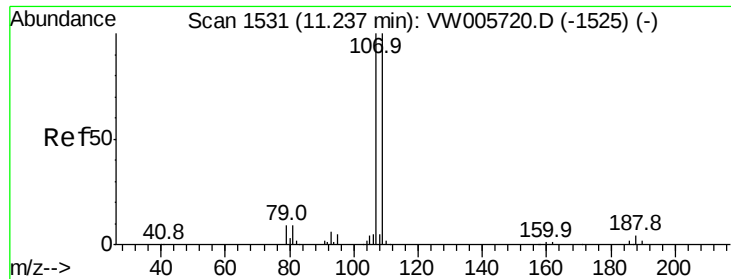
Tgt Ion: 129 Resp: 80684

Ion Ratio Lower Upper

129 100

127 75.9 51.7 95.9

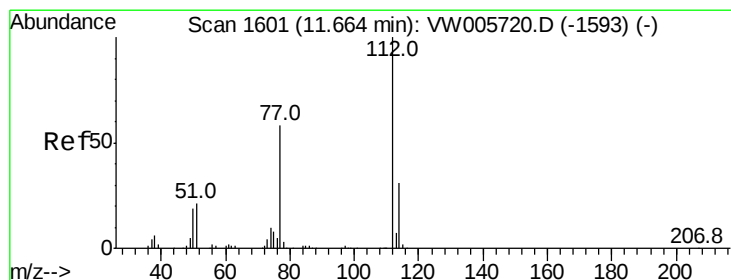
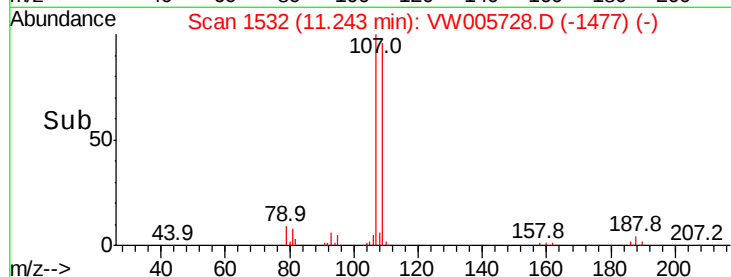
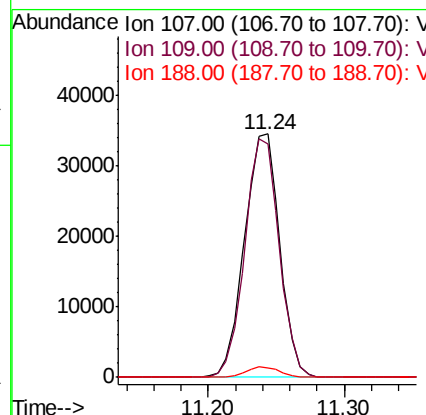
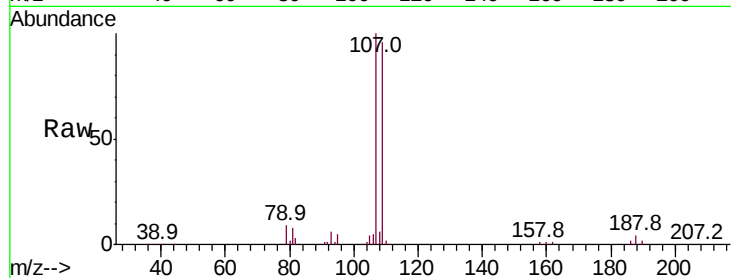




#51
 1,2-Dibromoethane
 Concen: 24.231 ug/L
 RT: 11.24 min Scan# 1532
 Delta R.T. 0.01 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

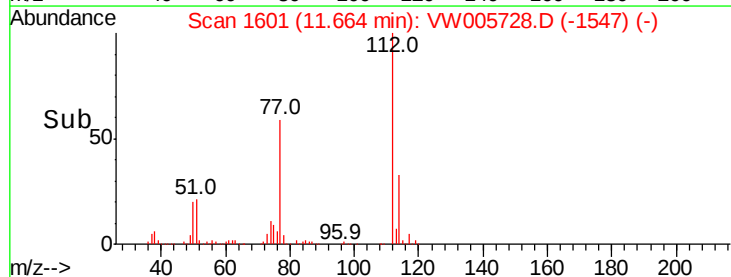
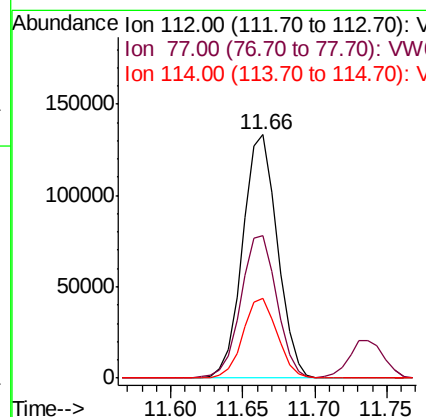
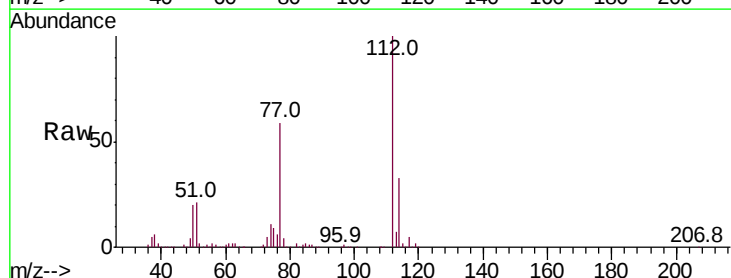
Instrument :
 MSVOA_W
 ClientSampleId :

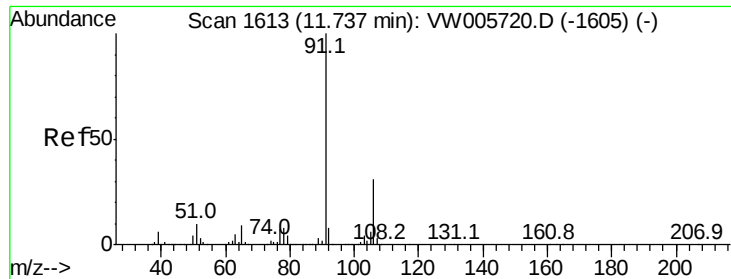
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.9	70.1	130.3
188	4.1	3.4	5.2



#52
 Chlorobenzene
 Concen: 23.129 ug/L
 RT: 11.66 min Scan# 1601
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

Tgt Ion	Ratio	Lower	Upper
112	100		
77	58.6	46.7	70.1
114	33.0	21.8	40.6





#53

Ethylbenzene

Concen: 23.536 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

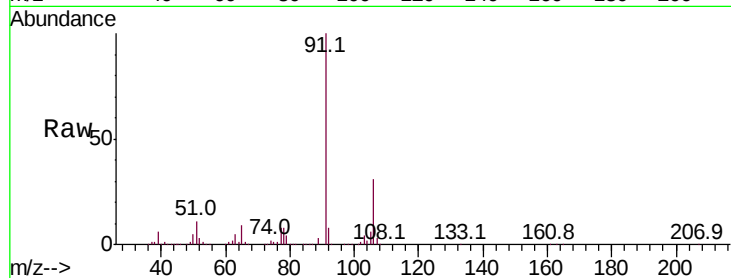
ClientSampled :

Tot Ion: 91 Resp: 395111

Ion Ratio Lower Upper

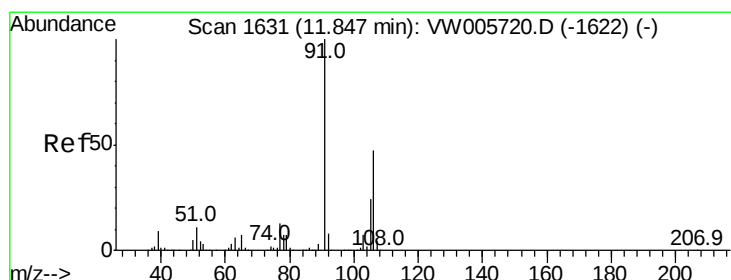
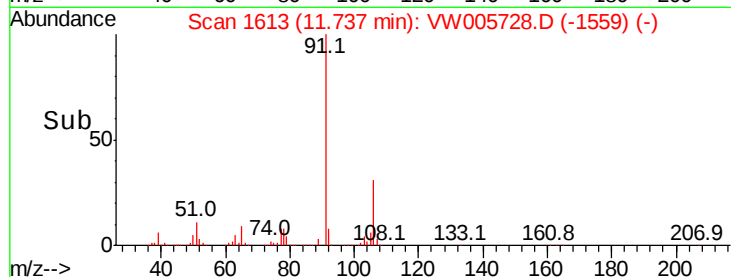
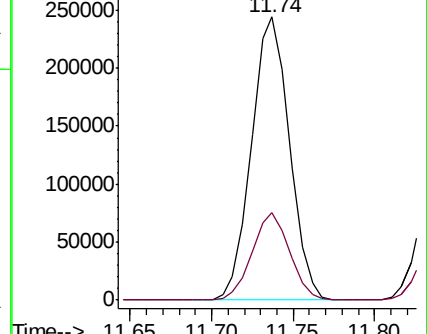
91 100

106 30.8 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 23.796 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VW005728.D

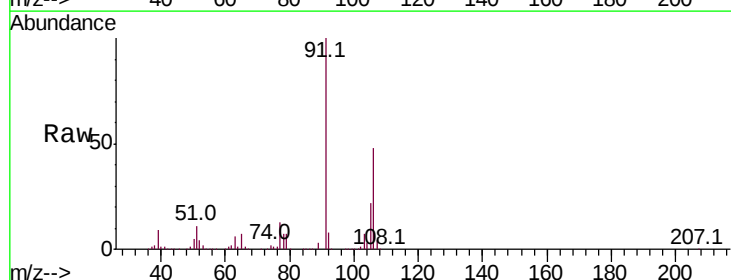
Acq: 28 Sep 2018 19:00

Tgt Ion:106 Resp: 150501

Ion Ratio Lower Upper

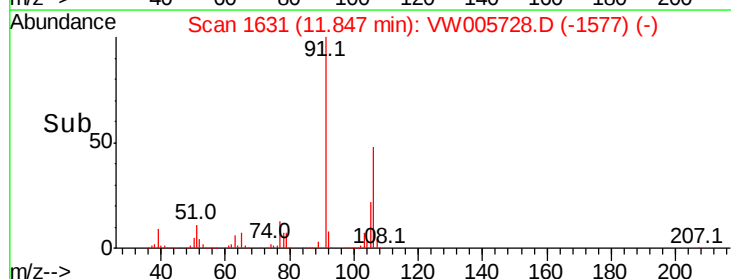
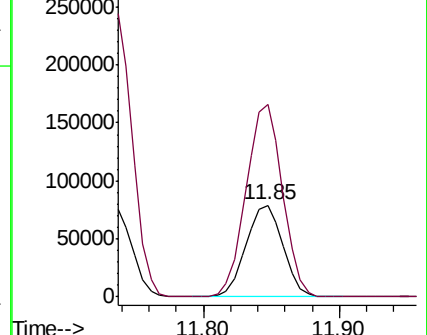
106 100

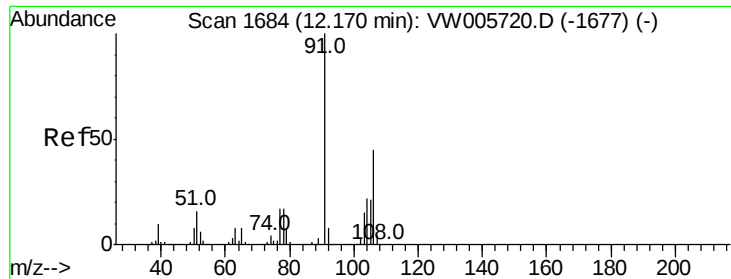
91 210.3 147.7 274.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

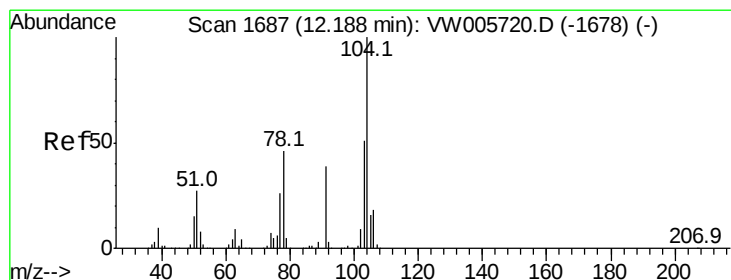
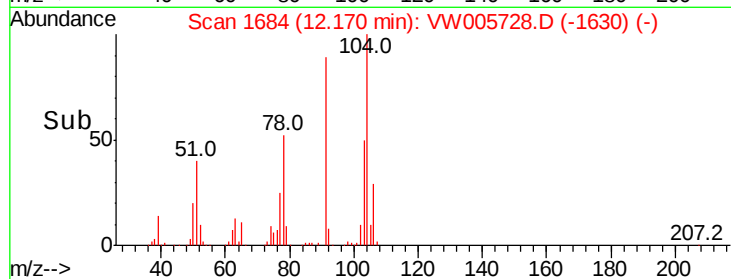
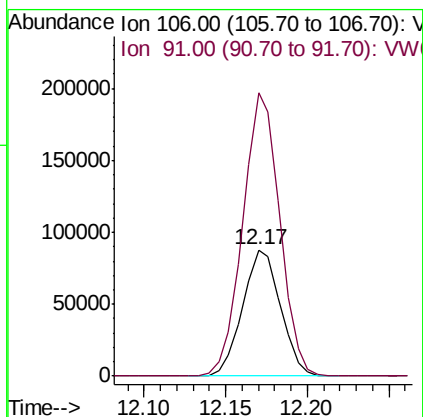
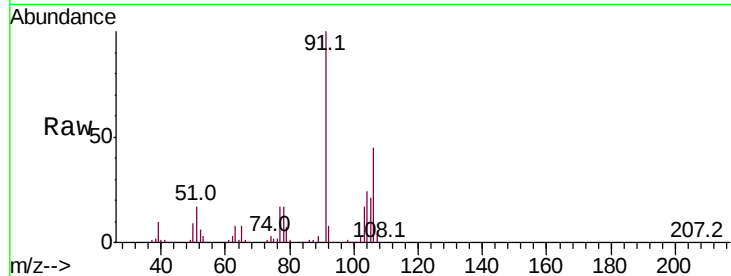




#55
o-xylene
Concen: 23.817 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

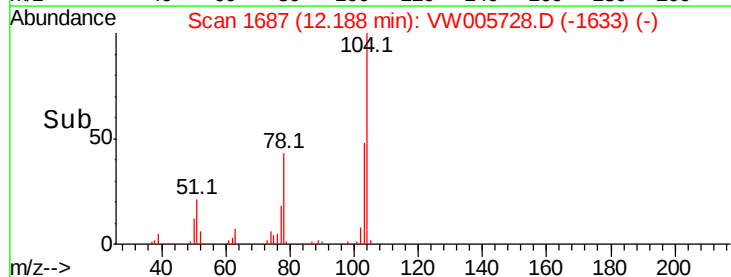
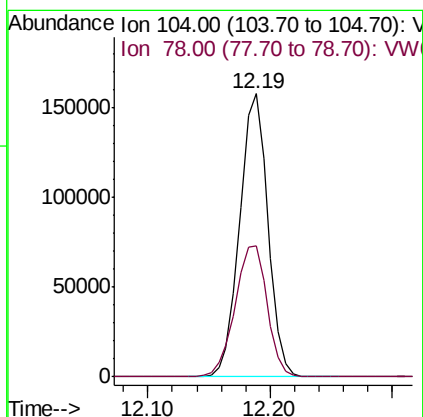
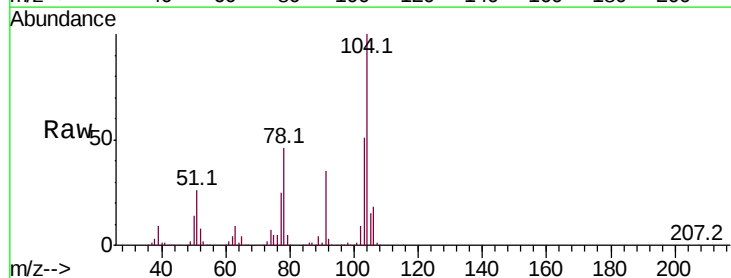
Instrument :
MSVOA_W
ClientSampled :

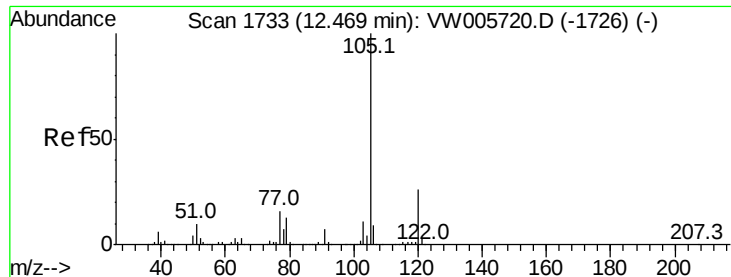
Tot Ion:106 Resp: 141979
Ion Ratio Lower Upper
106 100
91 223.9 156.5 290.7



#56
Styrene
Concen: 24.168 ug/L
RT: 12.19 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VW005728.D
Acq: 28 Sep 2018 19:00

Tgt Ion:104 Resp: 252831
Ion Ratio Lower Upper
104 100
78 46.3 32.2 59.8





#57

Isopropylbenzene

Concen: 23.876 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

ClientSampleId :

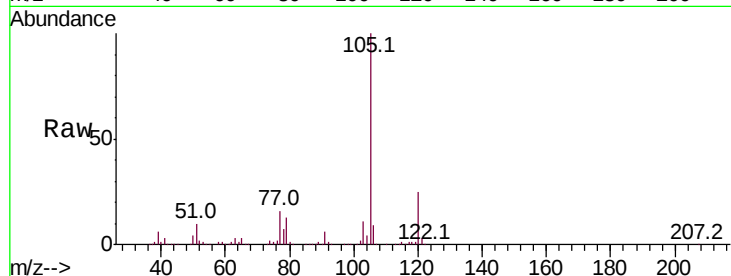
Tot Ion:105 Resp: 406536

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1

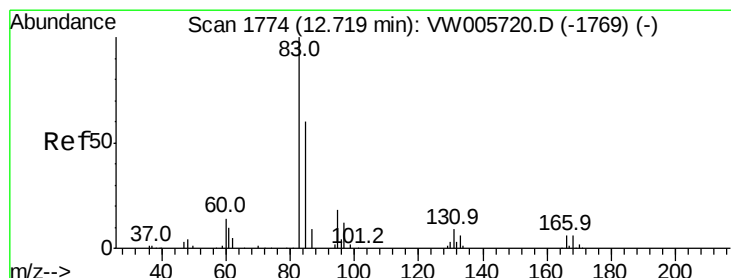
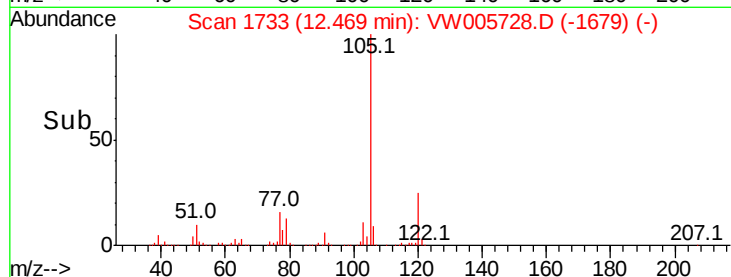
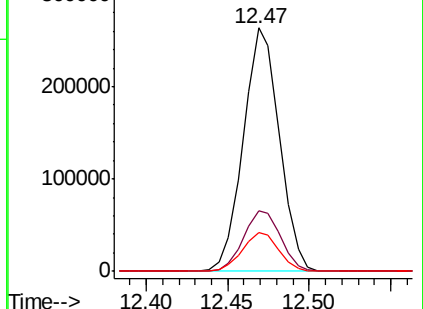
77 16.3 13.0 19.6



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: 26.785 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

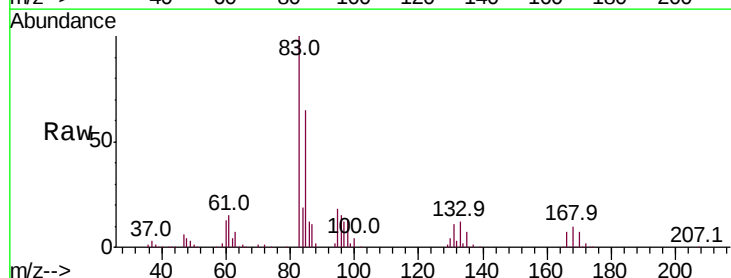
Tgt Ion: 83 Resp: 91166

Ion Ratio Lower Upper

83 100

85 64.9 43.0 80.0

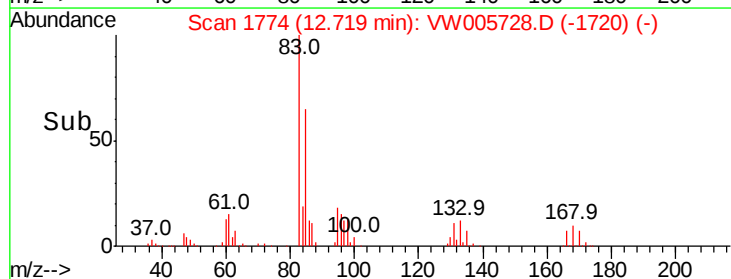
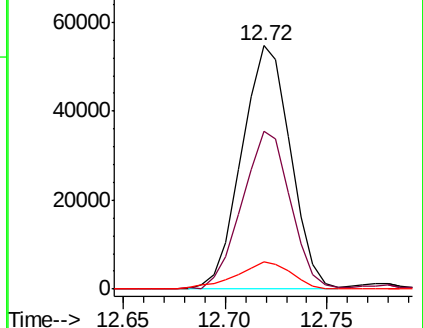
131 11.3 8.0 12.0

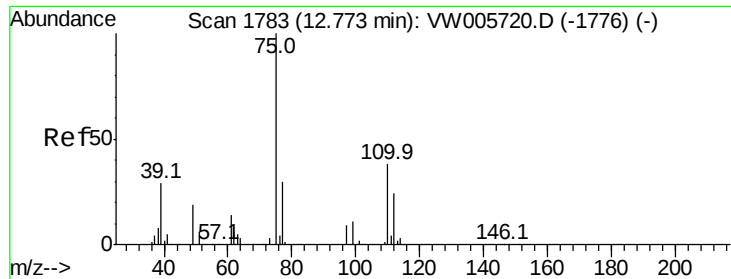


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 26.902 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

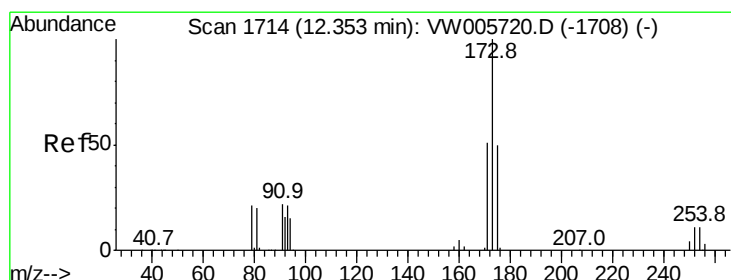
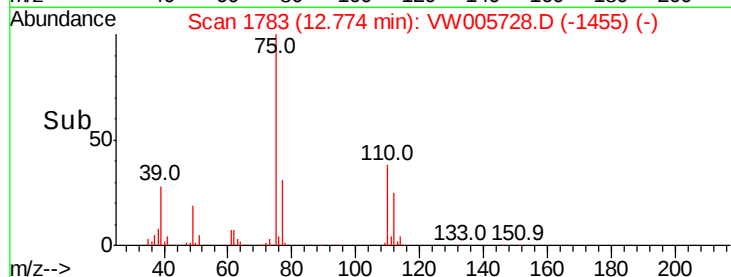
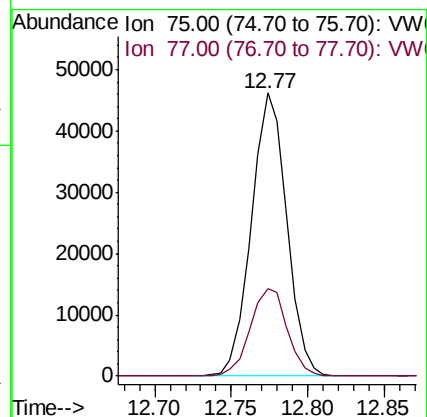
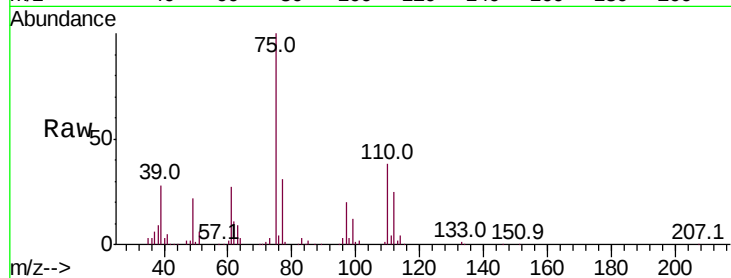
ClientSampleId :

Tot Ion: 75 Resp: 74328

Ion Ratio Lower Upper

75 100

77 32.2 25.2 37.8



#62

Bromoform

Concen: 25.307 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

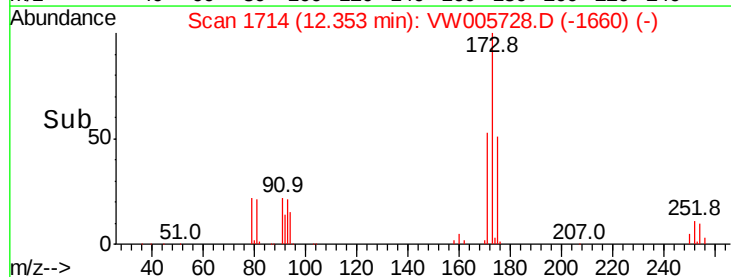
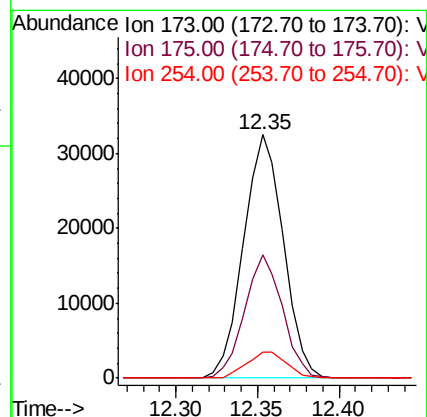
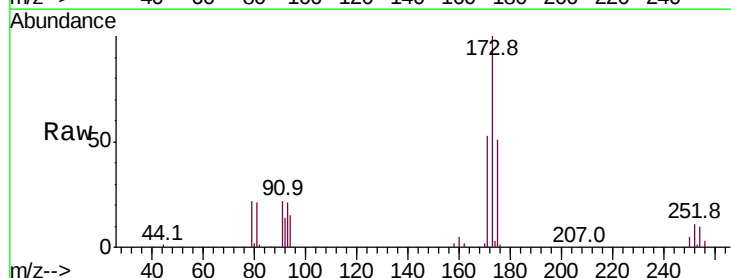
Tgt Ion:173 Resp: 55367

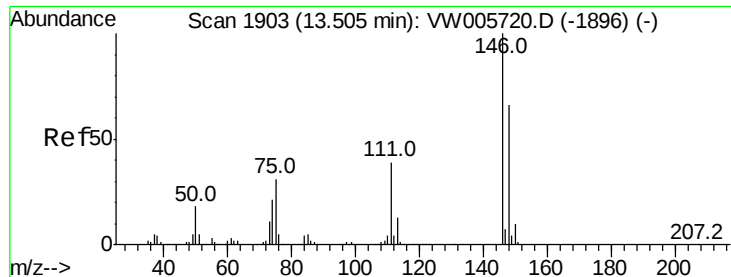
Ion Ratio Lower Upper

173 100

175 48.3 40.0 60.0

254 10.5 8.6 13.0

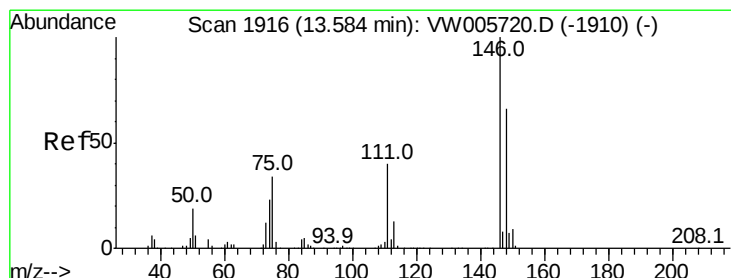
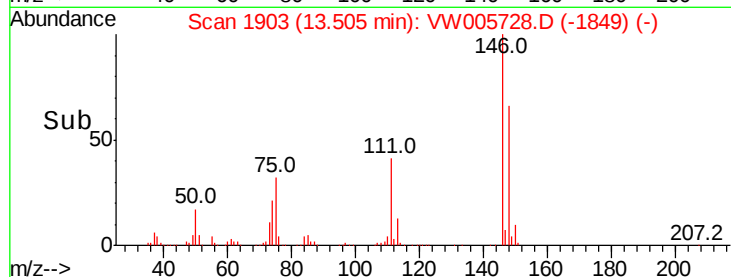
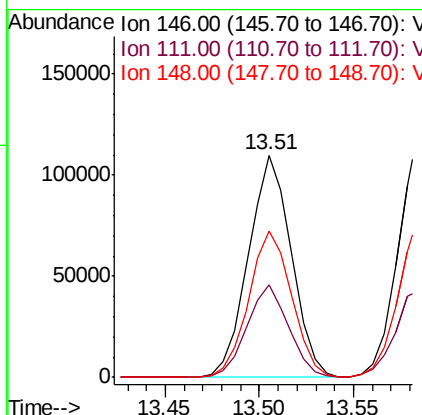
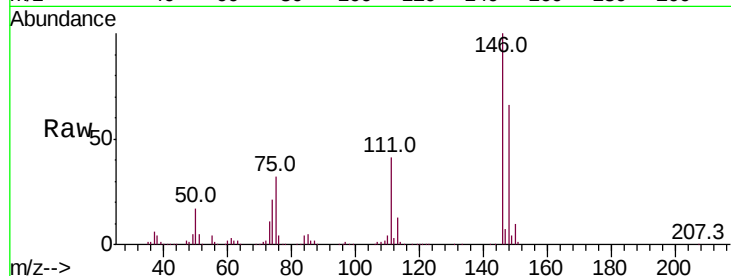




#63
 1,3-Dichlorobenzene
 Concen: 22.122 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

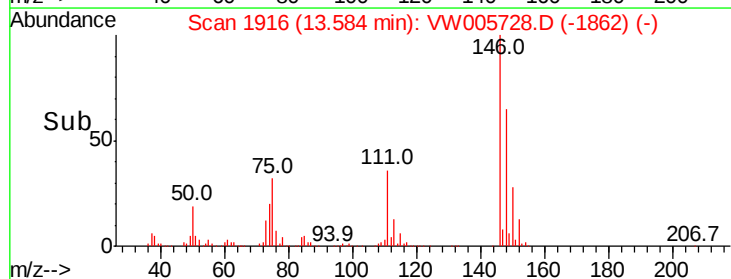
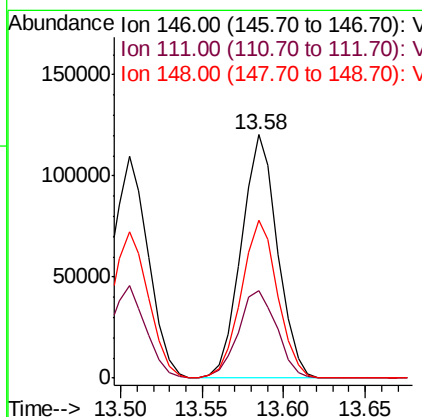
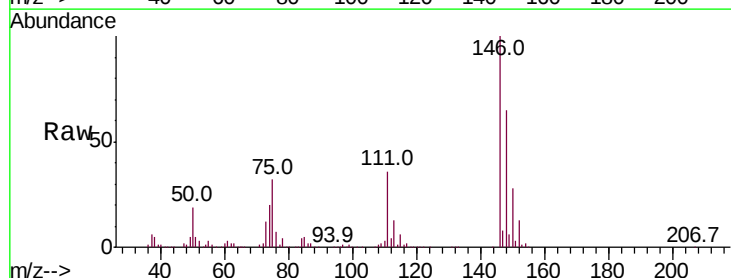
Instrument :
 MSVOA_W
 ClientSampleId :

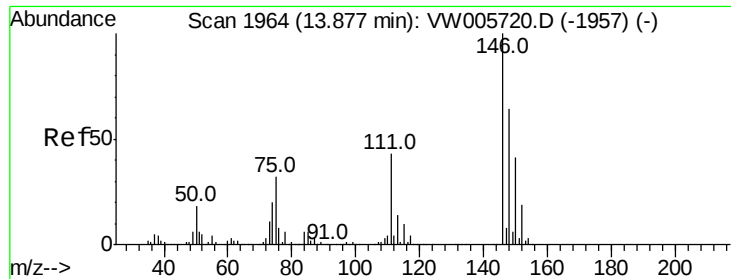
Tot Ion:146 Resp: 172882
 Ion Ratio Lower Upper
 146 100
 111 41.5 27.2 50.6
 148 66.0 46.2 85.8



#64
 1,4-Dichlorobenzene
 Concen: 22.754 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

Tgt Ion:146 Resp: 185698
 Ion Ratio Lower Upper
 146 100
 111 35.7 28.4 52.8
 148 64.8 46.3 86.1

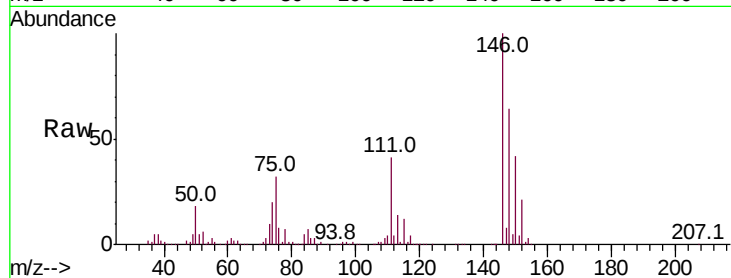




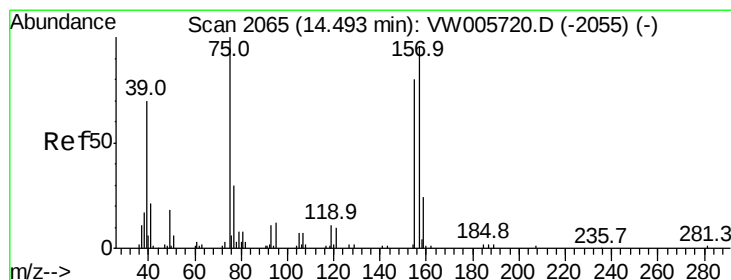
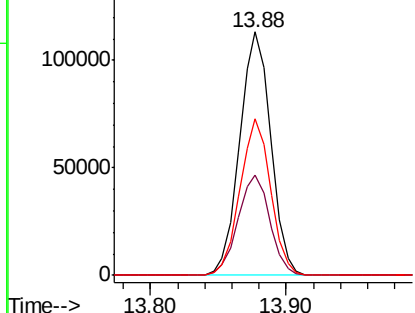
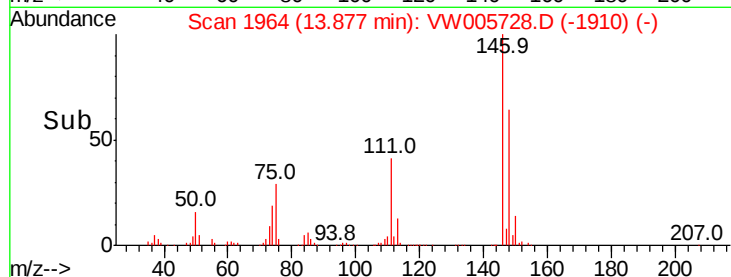
#65
 1,2-Dichlorobenzene
 Concen: 24.074 ug/L
 RT: 13.88 min Scan# 1964
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	34.6	51.8
148	64.5	51.5	77.3

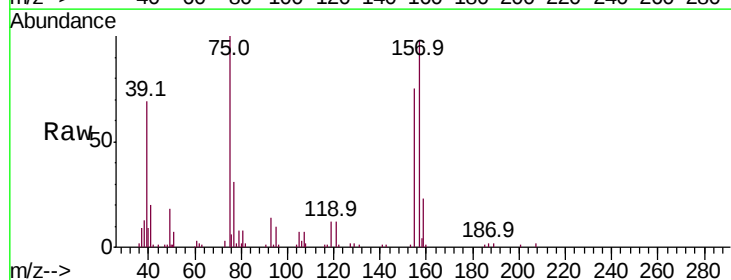


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

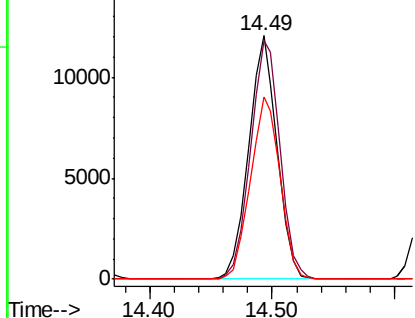
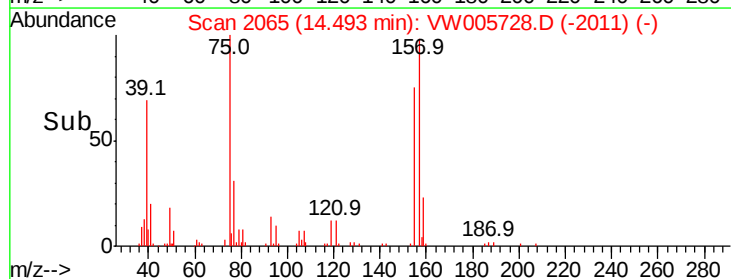


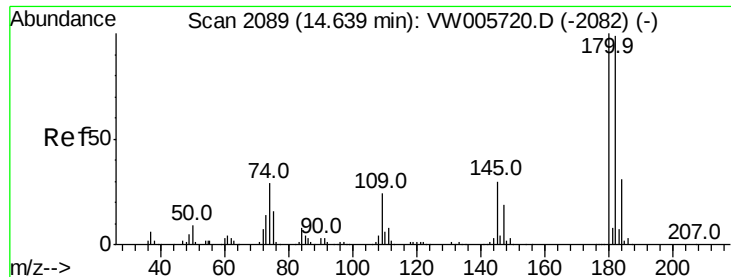
#66
 1,2-Dibromo-3-chloropropane
 Concen: 27.138 ug/L
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

Tgt Ion	Ratio	Lower	Upper
75	100		
157	98.1	76.9	115.3
155	75.1	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

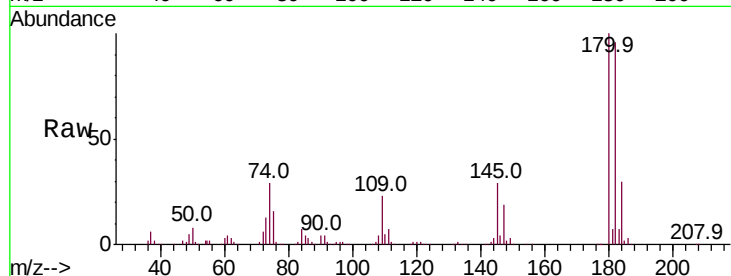




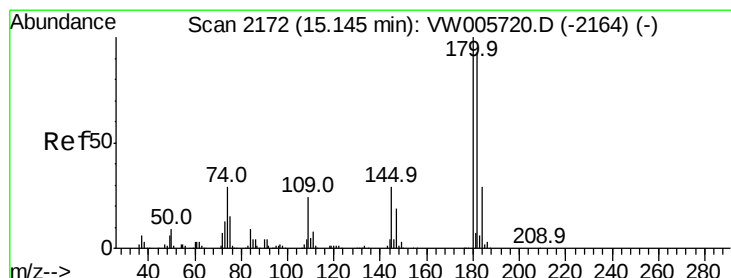
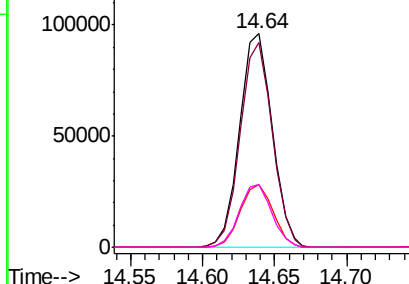
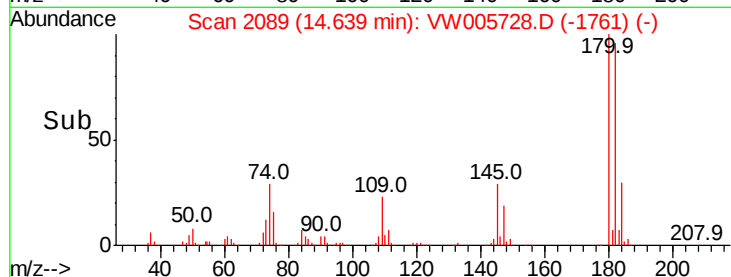
#67
 1,3,5-Trichlorobenzene
 Concen: 23.524 ug/L
 RT: 14.64 min Scan# 2089
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.4	77.7	116.5
184	29.6	24.6	37.0
145	29.4	23.8	35.6

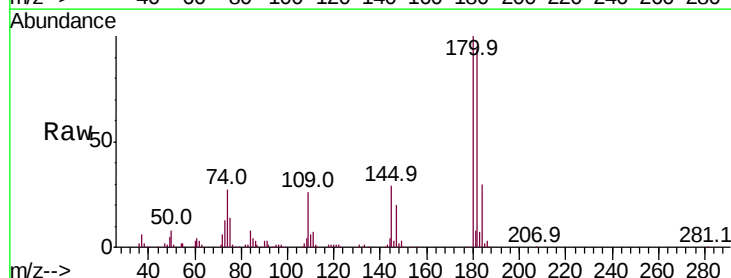


Abundance Ion 180.00 (179.70 to 180.70): V
 150000
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

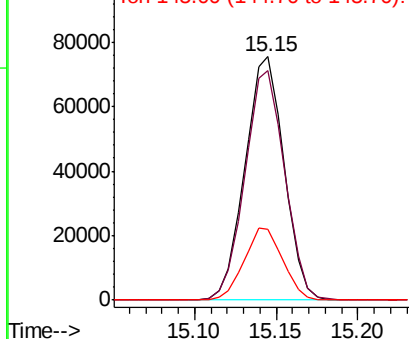
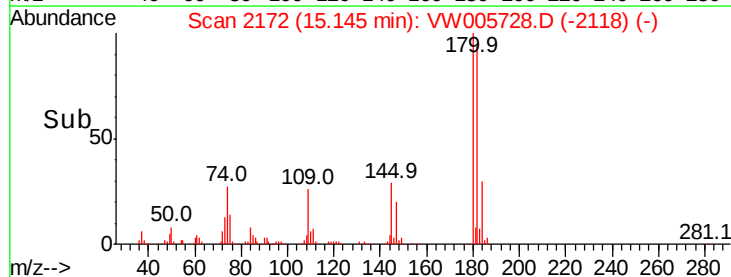


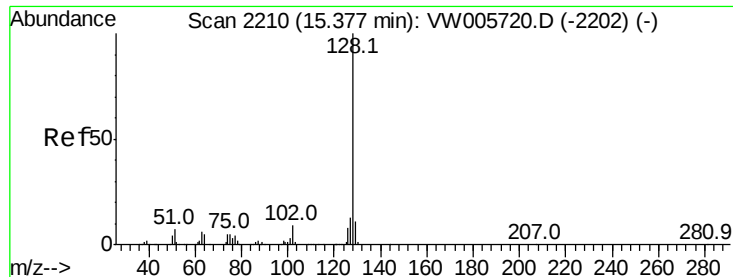
#68
 1,2,4-trichlorobenzene
 Concen: 23.953 ug/L
 RT: 15.15 min Scan# 2172
 Delta R.T. 0.00 min
 Lab File: VW005728.D
 Acq: 28 Sep 2018 19:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.8	113.6
145	29.4	23.8	35.6



Abundance Ion 180.00 (179.70 to 180.70): V
 100000
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 26.610 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

Instrument :

MSVOA_W

ClientSampleId :

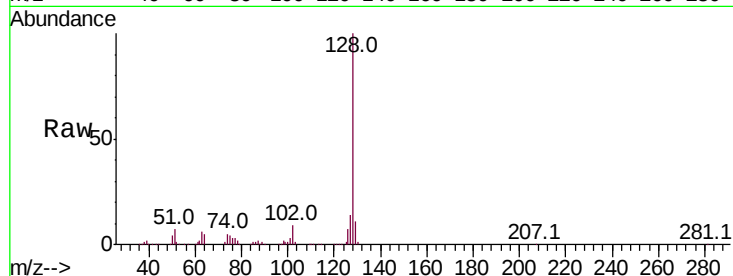
Tot Ion:128 Resp: 280929

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

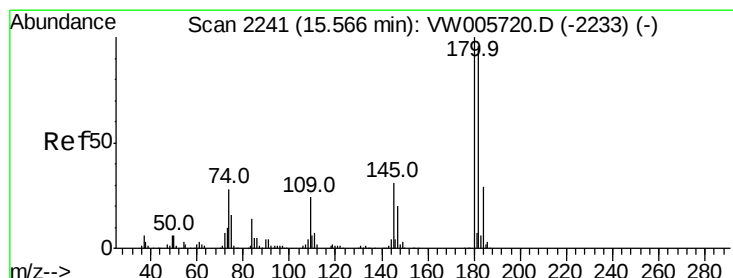
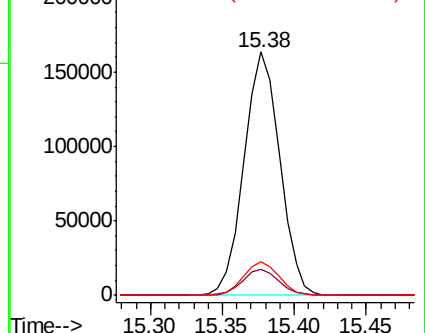
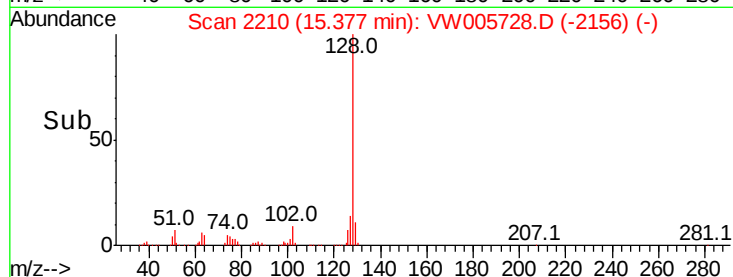
127 13.7 11.0 16.4



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: 24.929 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VW005728.D

Acq: 28 Sep 2018 19:00

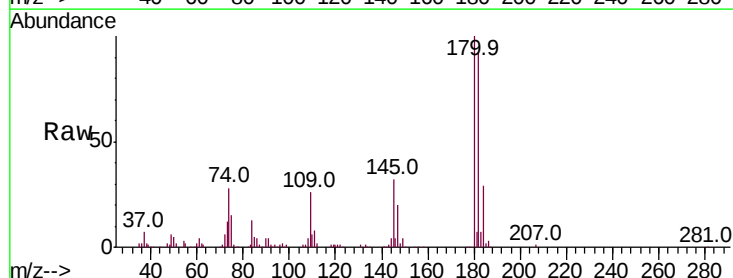
Tgt Ion:180 Resp: 123099

Ion Ratio Lower Upper

180 100

182 93.8 76.8 115.2

145 31.5 25.5 38.3



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

