

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042919\
 Data File : VW010183.D
 Acq On : 29 Apr 2019 16:11
 Operator : SY/VA
 Sample : K2606-01
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A5104

Quant Time: Apr 30 17:48:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM042919S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Apr 29 15:05:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	687249	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	635798	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	312362	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	165869	21.27	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.08%
7) Chloroethane-d5	2.89	69	143337	22.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.68%
10) 1,1-Dichloroethene-d2	4.01	63	381575	22.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.04%
20) 2-Butanone-d5	7.07	46	120304	41.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.68%
24) Chloroform-d	7.64	84	385463	21.64	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.56%
26) 1,2-Dichloroethane-d4	8.30	65	222020	21.70	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.80%
29) Benzene-d6	8.27	84	765599	22.36	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.44%
33) 1,2-Dichloropropane-d6	9.27	67	238470	22.30	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.20%
37) Toluene-d8	10.32	98	687258	22.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.28%
38) trans-1,3-Dichloropropene-	10.58	79	109238	22.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	88.68%
39) 2-Hexanone-d5	10.93	63	95066	42.30	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.60%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	190518	20.86	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	83.44%
61) 1,2-Dichlorobenzene-d4	13.86	152	251034	21.64	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.56%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.21	50	182447	22.455	ug/L	95
6) Bromomethane	2.78	94	59695	10.485	ug/L	99
9) Trichlorofluoromethane	3.25	101	84103	15.512	ug/L	97
12) 1,1-Dichloroethene	4.03	96	190777	22.864	ug/L	96
13) Acetone	4.12	43	177031	77.901	ug/L	99
15) Methyl Acetate	4.67	43	171764	34.813	ug/L	100
16) Methylene chloride	4.92	84	97568	8.532	ug/L	93
17) Methyl tert-butyl Ether	5.42	73	353358	32.577	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	97474	11.057	ug/L	100
22) cis-1,2-Dichloroethene	7.17	96	253478	26.590	ug/L	97
23) Bromochloromethane	7.51	128	67754	15.459	ug/L	96
27) 1,2-Dichloroethane	8.40	62	119050	10.032	ug/L	96
30) Cyclohexane	7.95	56	158895	11.037	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	146015	10.992	ug/L	99
32) Carbon tetrachloride	8.07	117	175727	13.328	ug/L	99
35) Trichloroethene	9.09	95	411407	43.246	ug/L	99
36) Methylcyclohexane	9.33	83	455554	28.775	ug/L	100

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 Quant Title : VOC Analysis
 QLast Update : Mon Apr 29 15:05:07 2019
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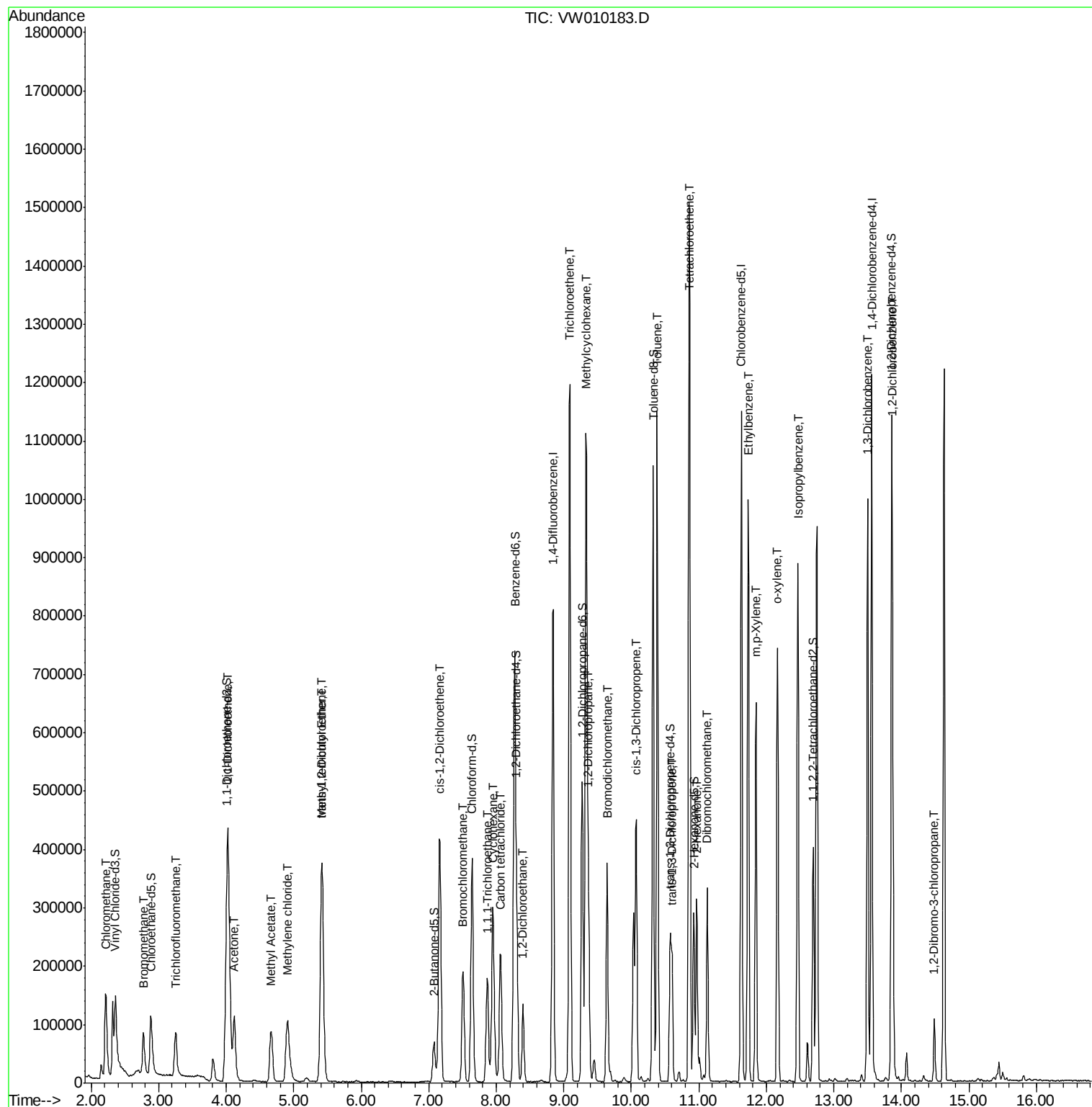
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 1,2-Dichloropropane	9.37	63	123714	13.362	ug/L	100
41) Bromodichloromethane	9.64	83	251692	20.678	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	258369	17.939	ug/L	97
44) Toluene	10.38	91	842389	22.061	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	107418	8.573	ug/L	99
47) Tetrachloroethene	10.86	164	333354	42.228	ug/L	97
49) 2-Hexanone	10.97	43	199425	42.752	ug/L	99
50) Dibromochloromethane	11.13	129	169263	19.698	ug/L	98
53) Ethylbenzene	11.73	91	690981	15.983	ug/L	100
54) m,p-Xylene	11.85	106	175611	10.793	ug/L	96
55) o-xylene	12.17	106	197297	12.828	ug/L	95
57) Isopropylbenzene	12.47	105	553835	13.233	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	399496	21.177	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	186633	10.503	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	26869	18.211	ug/L	95

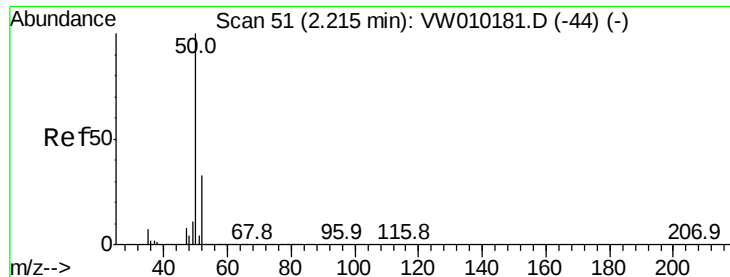
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW042919\
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#3

Chloromethane

Concen: 22.455 ug/L

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampleId :

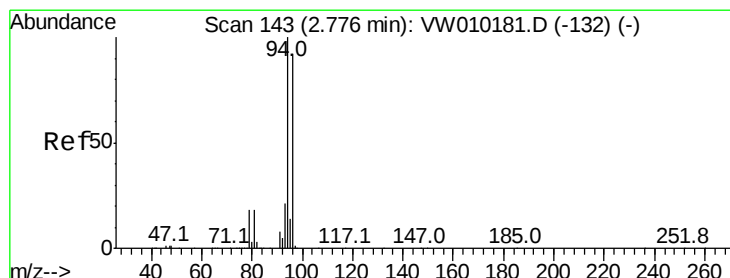
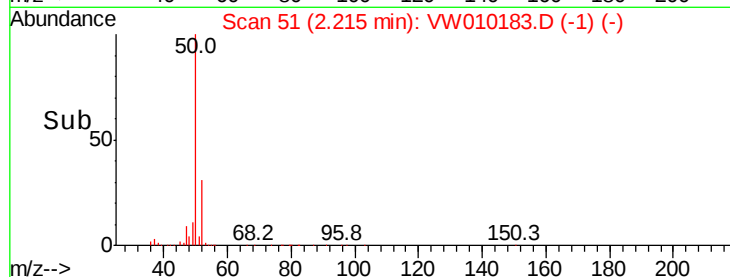
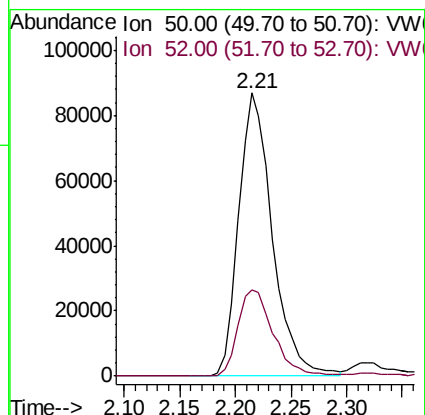
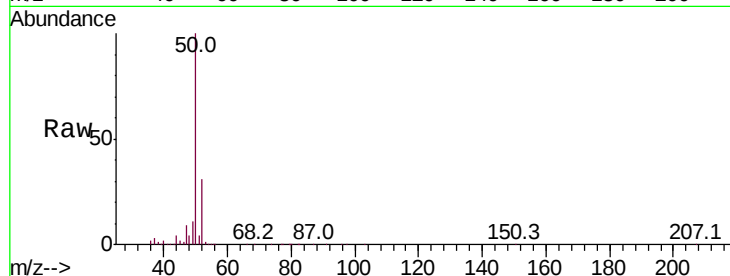
A5104

Tot Ion: 50 Resp: 182447

Ion Ratio Lower Upper

50 100

52 30.6 23.6 43.8



#6

Bromomethane

Concen: 10.485 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW010183.D

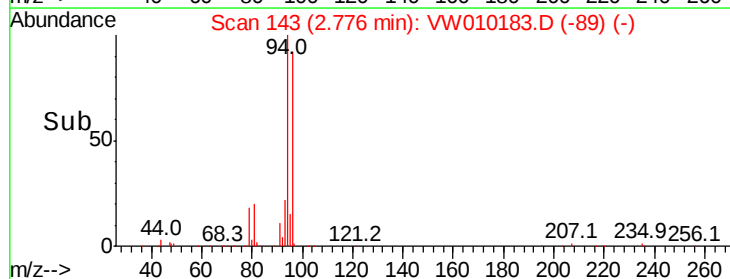
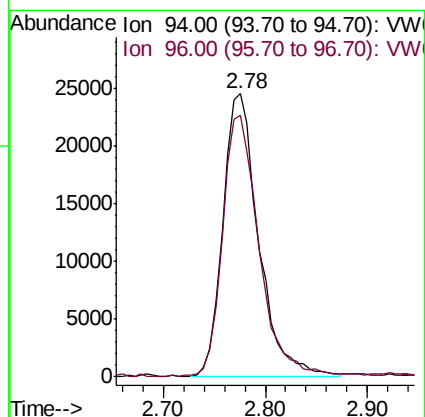
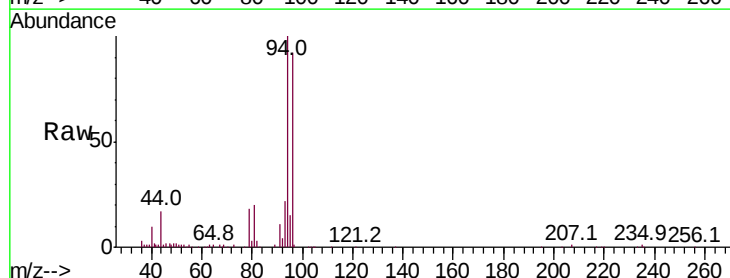
Acq: 29 Apr 2019 16:11

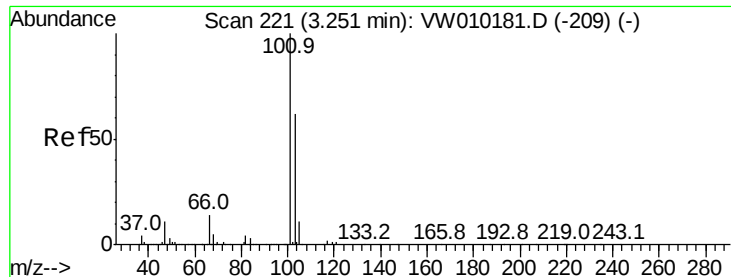
Tgt Ion: 94 Resp: 59695

Ion Ratio Lower Upper

94 100

96 93.5 9.5 180.3



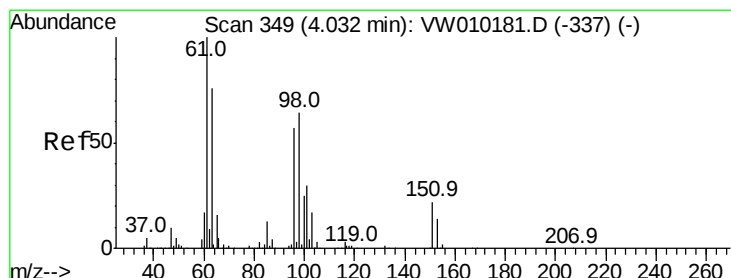
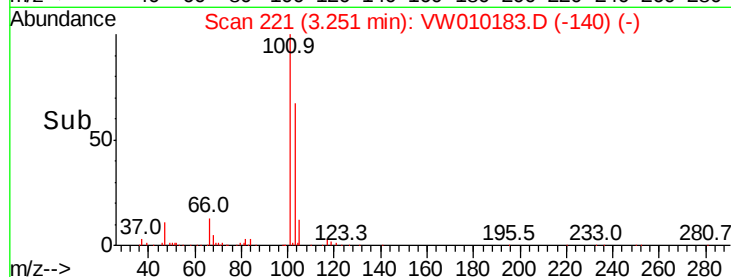
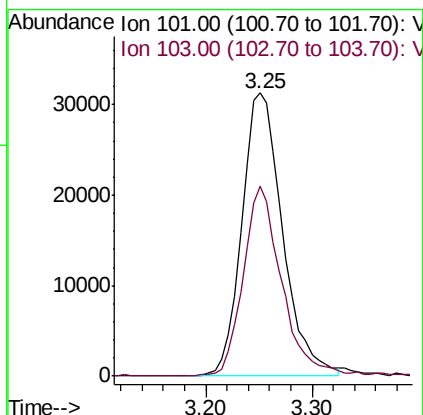
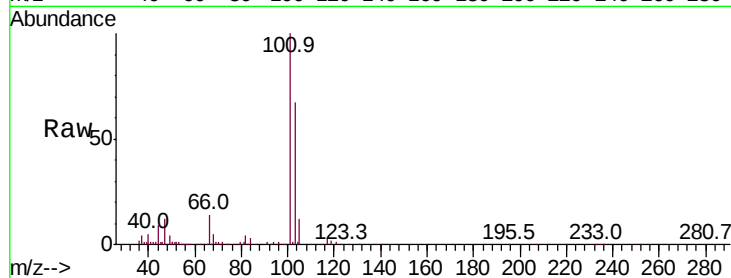


#9

Trichlorofluoromethane
 Concen: 15.512 ug/L
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW010183.D
 Acq: 29 Apr 2019 16:11

Instrument :
 MSVOA_W
 ClientSampleId :
 A5104

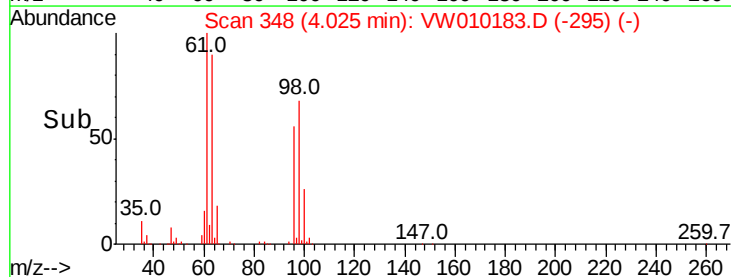
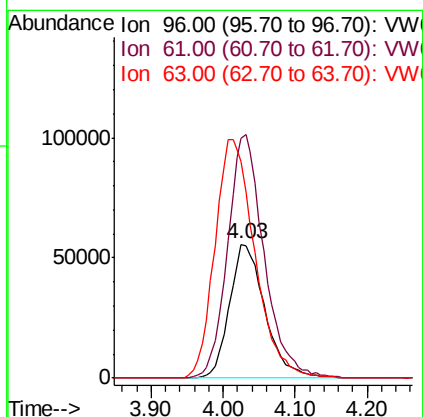
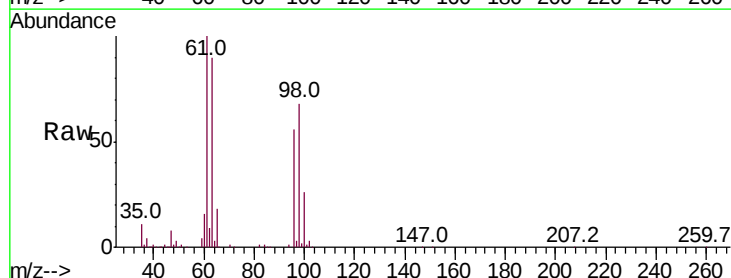
Tot Ion	Ratio	Lower	Upper
101	100		
103	63.0	45.5	84.5

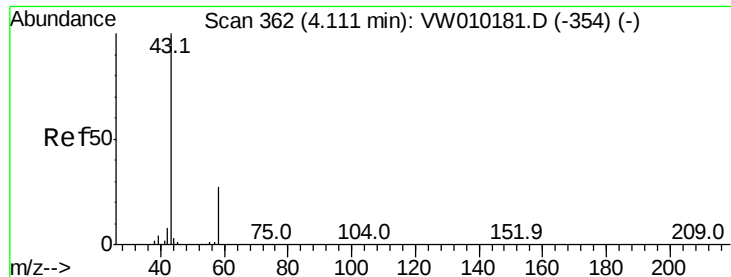


#12

1,1-Dichloroethene
 Concen: 22.864 ug/L
 RT: 4.03 min Scan# 348
 Delta R.T. -0.01 min
 Lab File: VW010183.D
 Acq: 29 Apr 2019 16:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	179.5	125.2	232.6
63	161.6	106.3	197.3





#13

Acetone

Concen: 77.901 ug/L

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampleId :

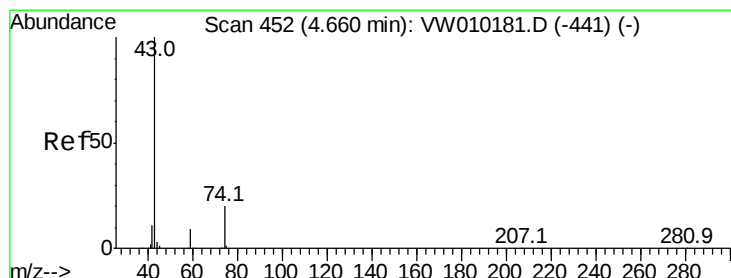
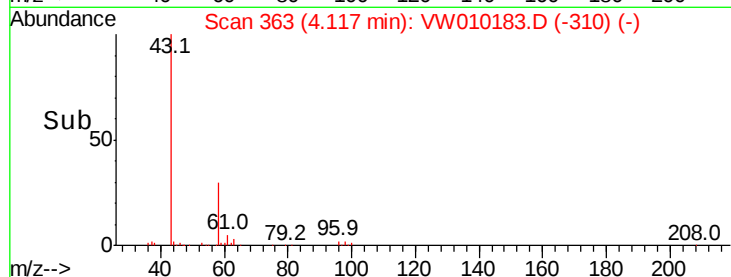
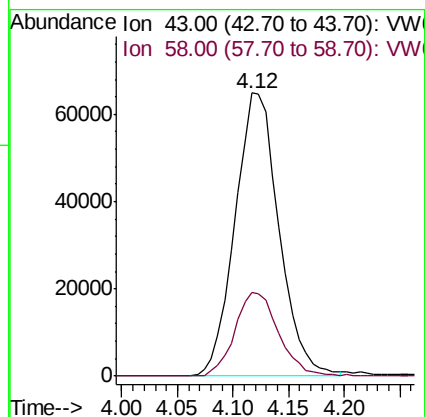
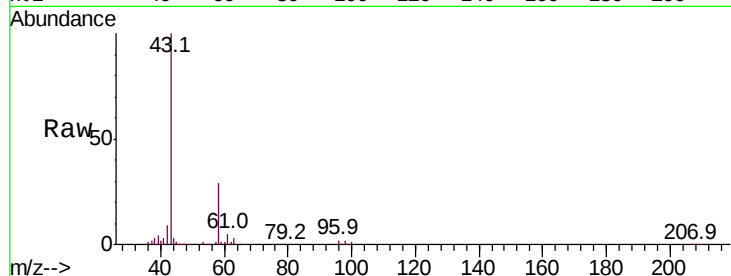
A5104

Tot Ion: 43 Resp: 177031

Ion Ratio Lower Upper

43 100

58 29.4 0.0 59.8



#15

Methyl Acetate

Concen: 34.813 ug/L

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW010183.D

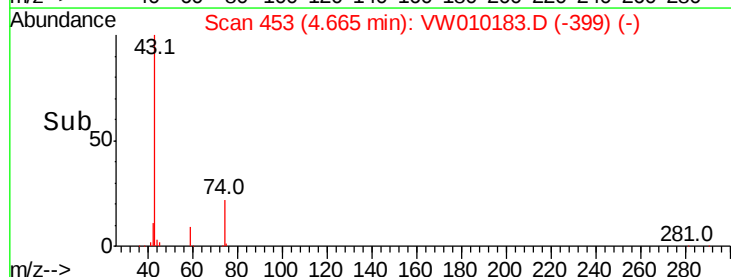
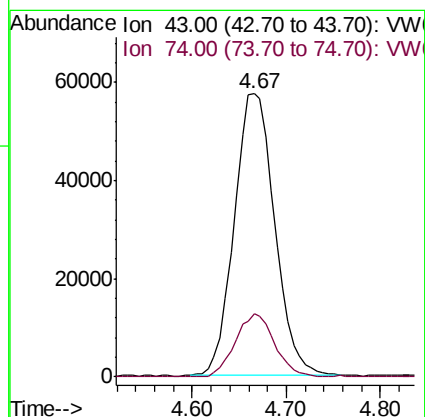
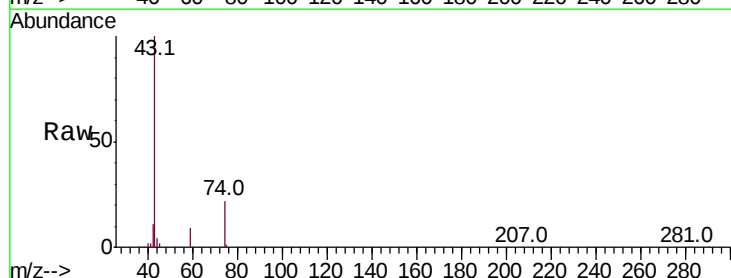
Acq: 29 Apr 2019 16:11

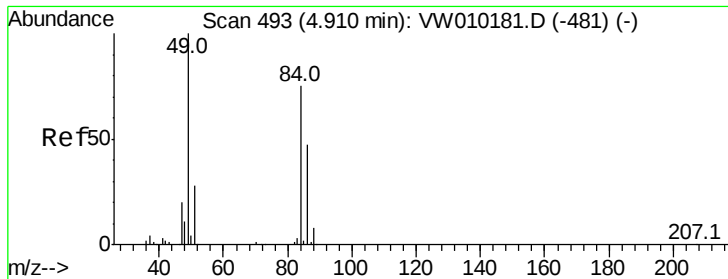
Tgt Ion: 43 Resp: 171764

Ion Ratio Lower Upper

43 100

74 21.8 17.5 26.3

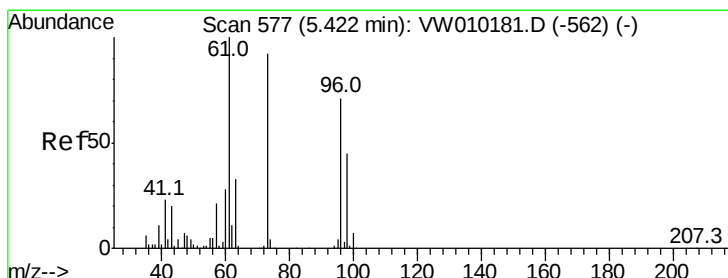
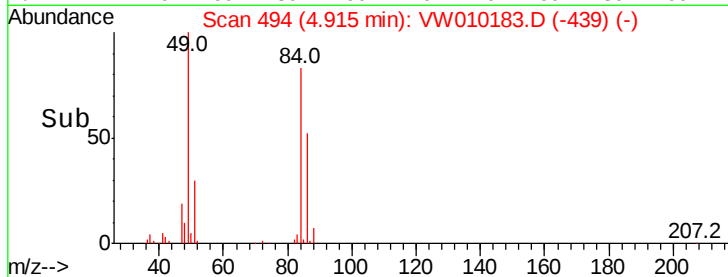
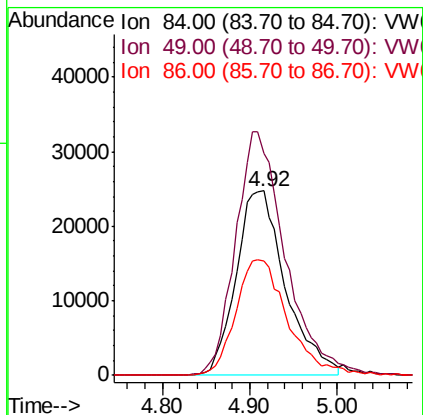
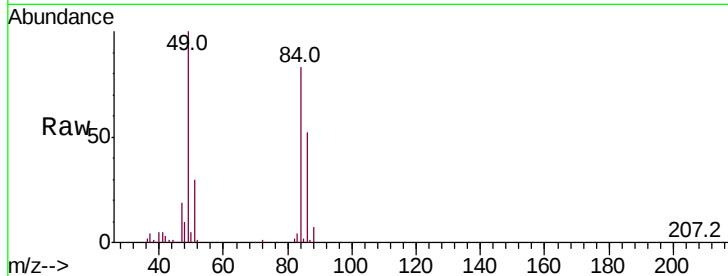




#16
Methylene chloride
Concen: 8.532 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

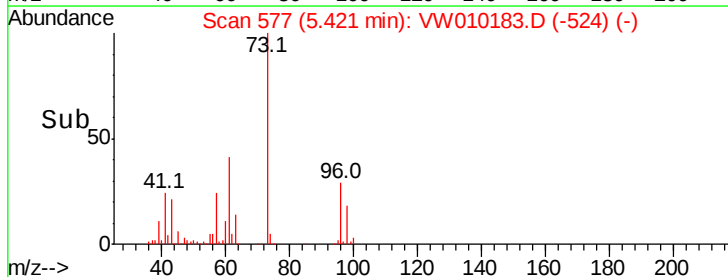
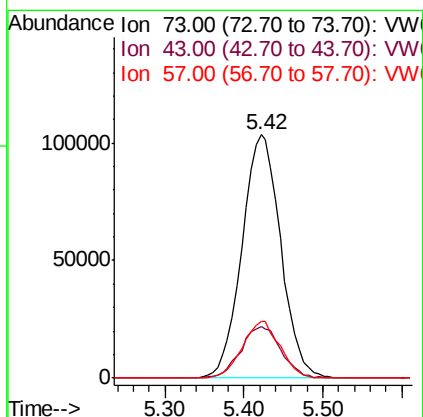
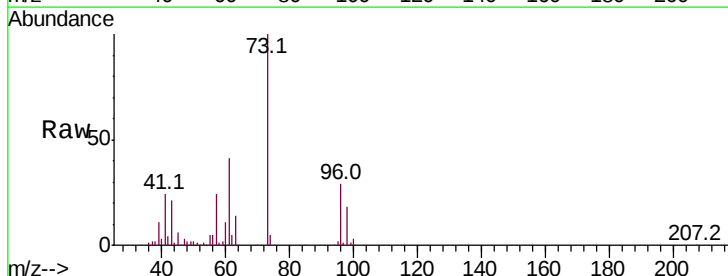
Instrument :
MSVOA_W
ClientSampled :
A5104

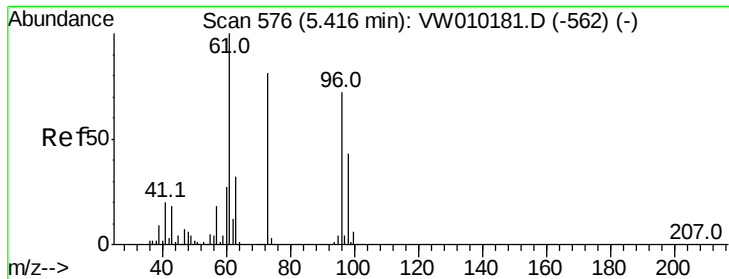
Tot Ion: 84 Resp: 97568
Ion Ratio Lower Upper
84 100
49 120.4 90.2 167.6
86 62.1 46.3 86.1



#17
Methyl tert-butyl Ether
Concen: 32.577 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.01 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

Tgt Ion: 73 Resp: 353358
Ion Ratio Lower Upper
73 100
43 21.7 17.5 26.3
57 22.7 17.8 26.6





#18

trans-1,2-Dichloroethene

Concen: 11.057 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampled :

A5104

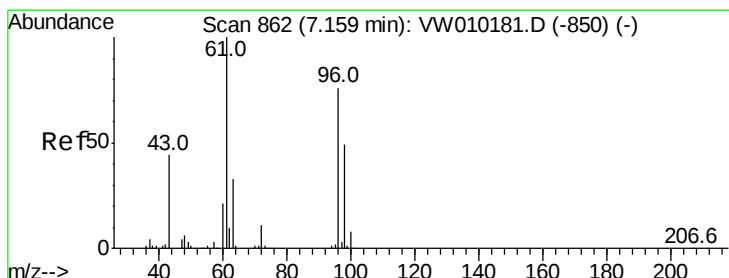
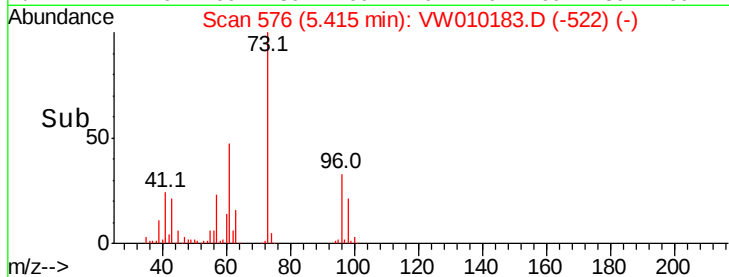
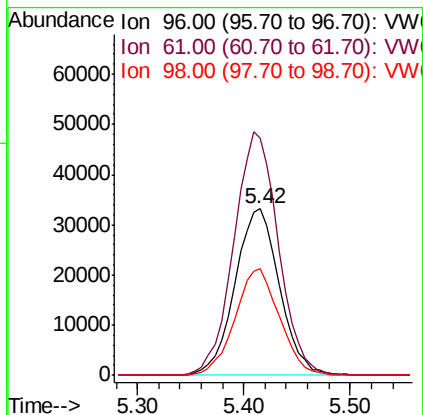
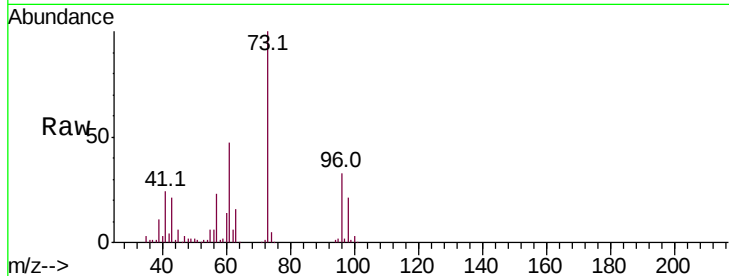
Tot Ion: 96 Resp: 97474

Ion Ratio Lower Upper

96 100

61 142.1 99.4 184.6

98 63.8 44.8 83.2



#22

cis-1,2-Dichloroethene

Concen: 26.590 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

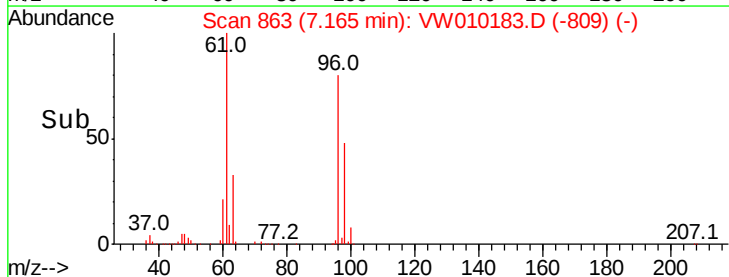
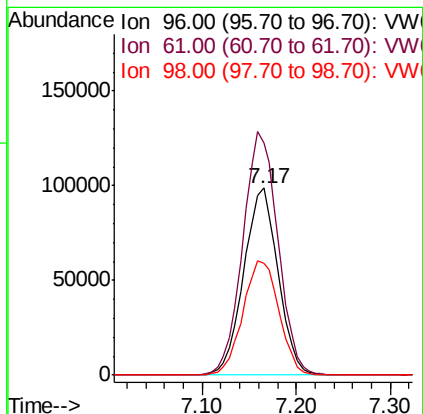
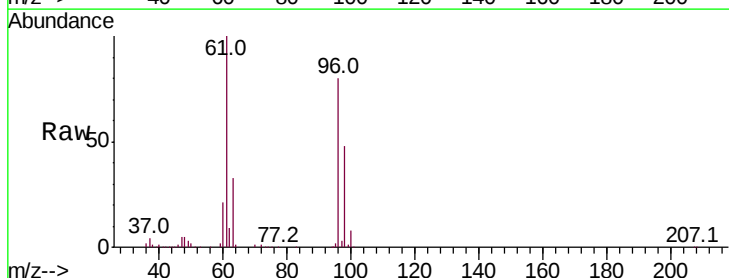
Tgt Ion: 96 Resp: 253478

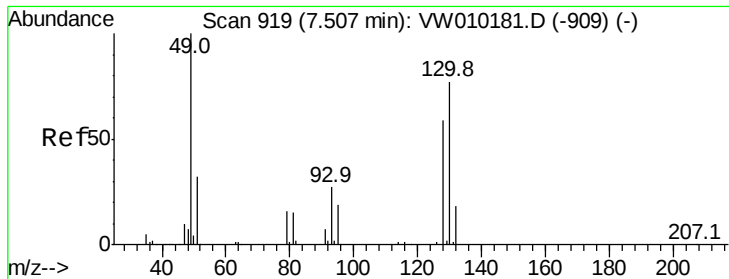
Ion Ratio Lower Upper

96 100

61 124.5 90.0 167.2

98 60.1 42.8 79.6

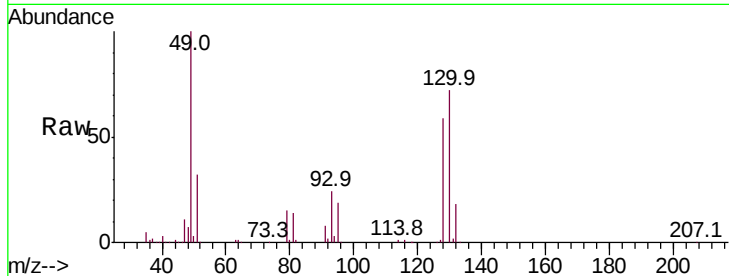




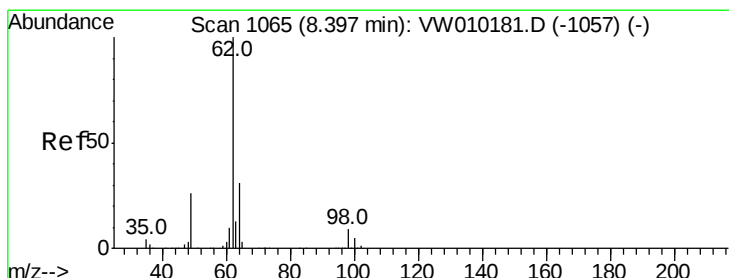
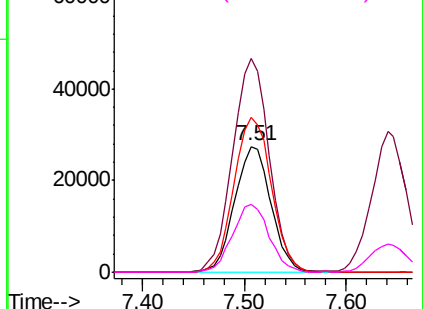
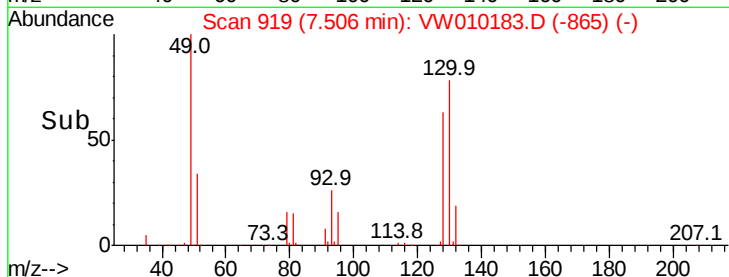
#23
Bromochloromethane
Concen: 15.459 ug/L
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW010183.D
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Instrument :
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Tot Ion:128 Resp: 67754
Ion Ratio Lower Upper
128 100
49 169.9 121.7 225.9
130 123.1 91.1 169.1
51 54.2 40.7 61.1

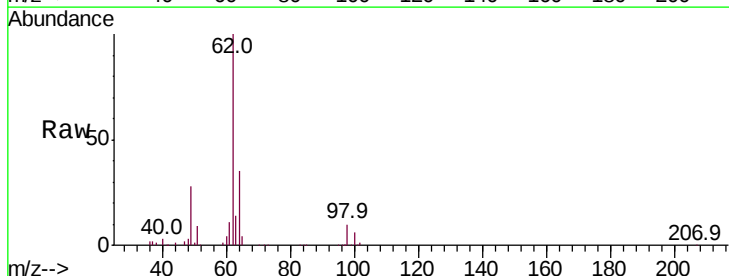


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW

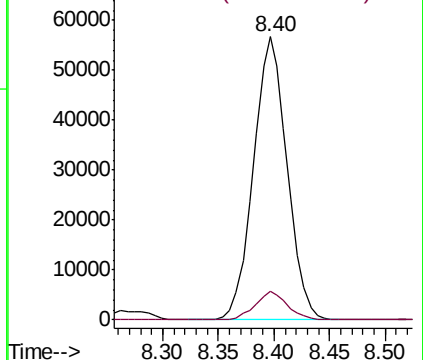
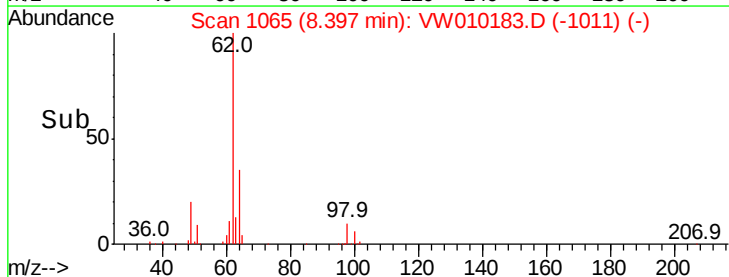


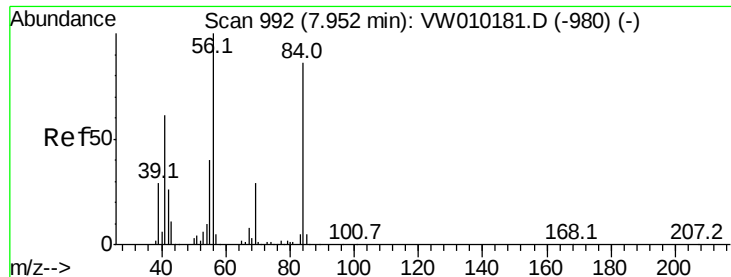
#27
1,2-Dichloroethane
Concen: 10.032 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

Tgt Ion: 62 Resp: 119050
Ion Ratio Lower Upper
62 100
98 10.3 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VW
Ion 98.00 (97.70 to 98.70): VW

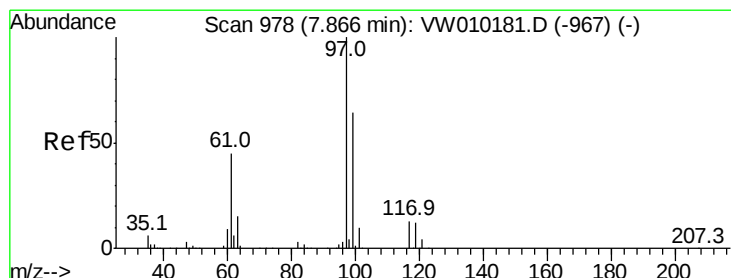
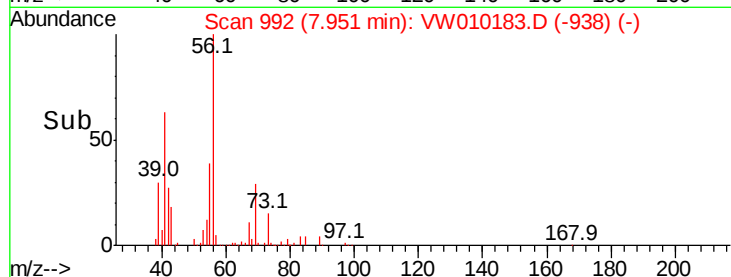
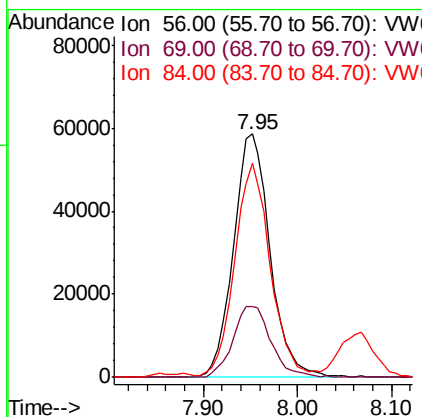
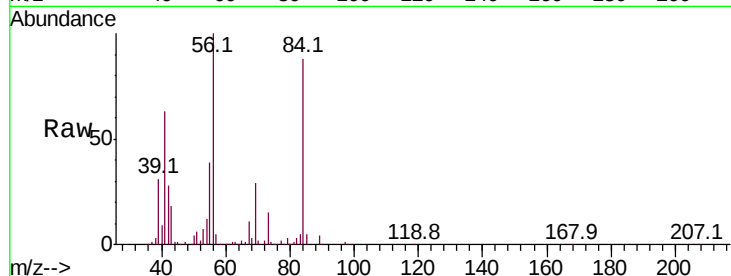




#30
Cyclohexane
Concen: 11.037 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

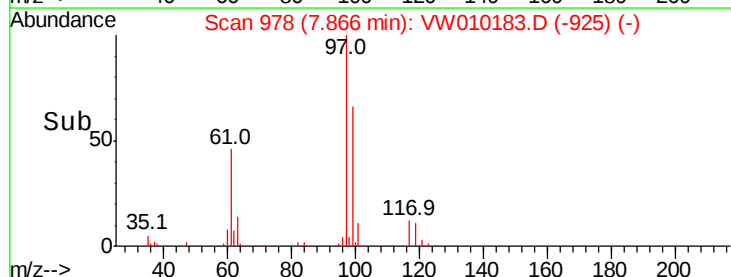
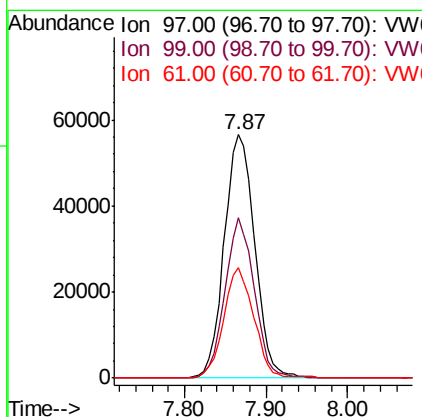
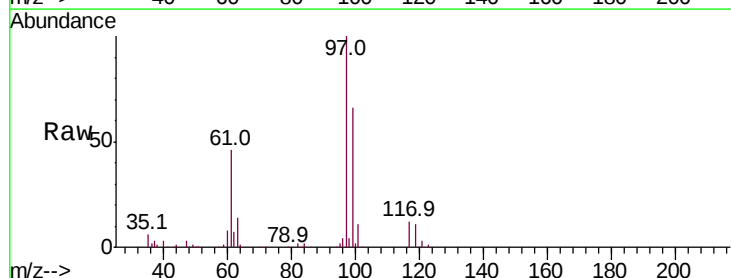
Instrument :
MSVOA_W
ClientSampleId :
A5104

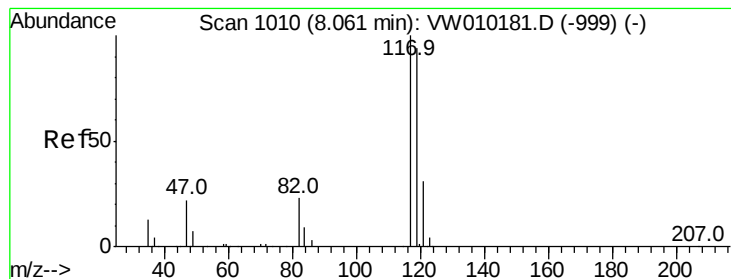
Tot Ion	56	Resp	158895
Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.4	35.2
84	85.4	67.0	100.6



#31
1,1,1-Trichloroethane
Concen: 10.992 ug/L
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

Tgt Ion	97	Resp	146015
Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.0	76.4
61	44.4	36.2	54.4





#32

Carbon tetrachloride

Concen: 13.328 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampleId :

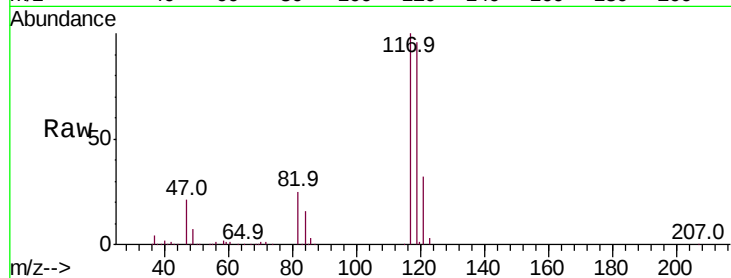
A5104

Tot Ion:117 Resp: 175727

Ion Ratio Lower Upper

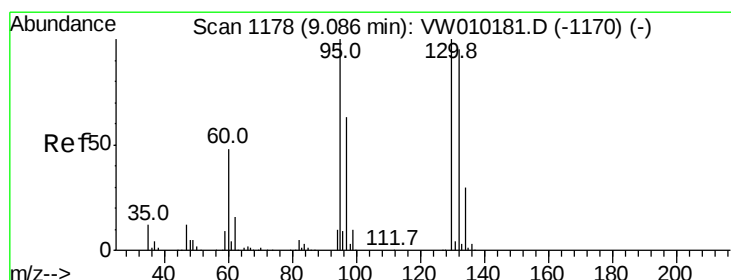
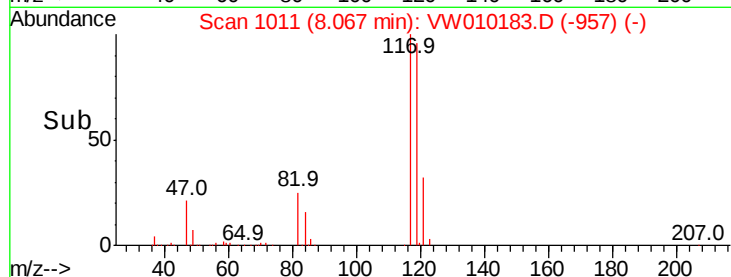
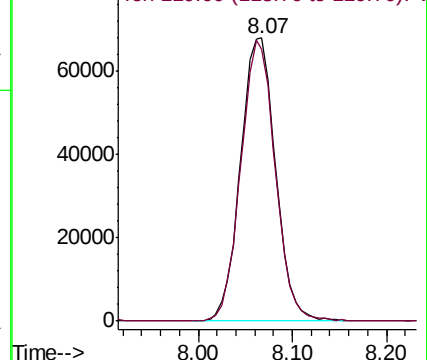
117 100

119 97.2 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#35

Trichloroethene

Concen: 43.246 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Tgt Ion: 95 Resp: 411407

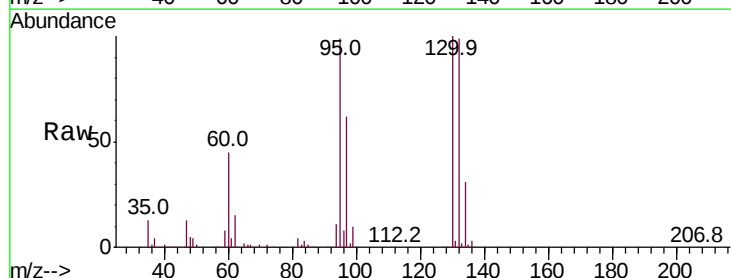
Ion Ratio Lower Upper

95 100

97 63.5 45.4 84.2

132 99.0 69.2 128.6

130 102.0 72.2 134.2

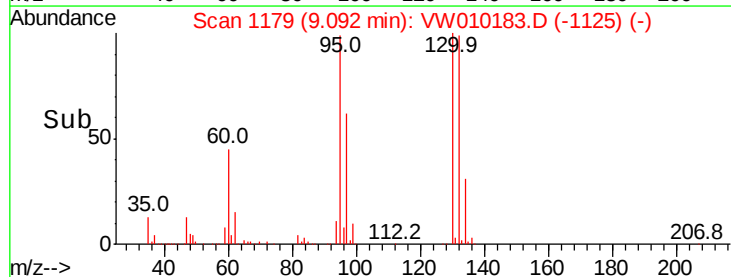
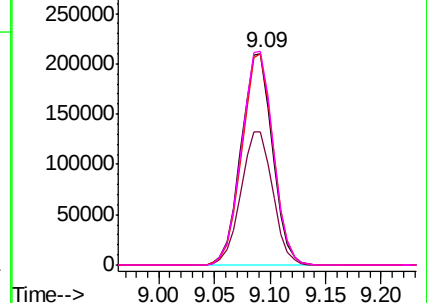


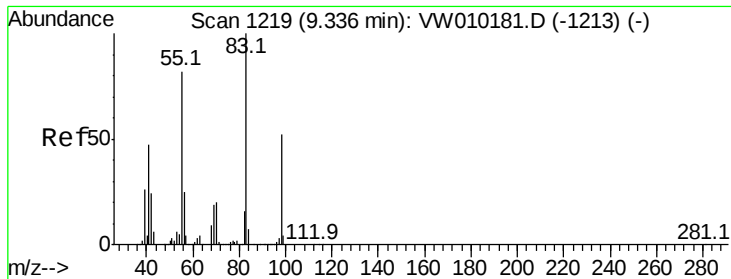
Abundance Ion 95.00 (94.70 to 95.70): V

Ion 97.00 (96.70 to 97.70): V

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

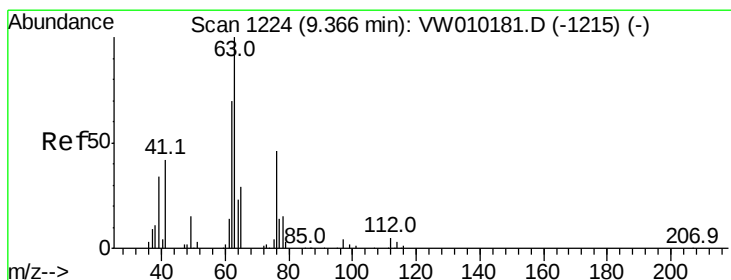
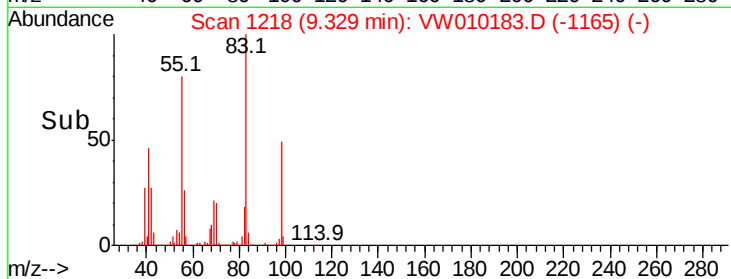
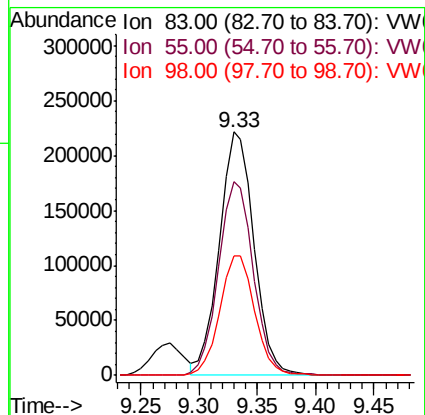
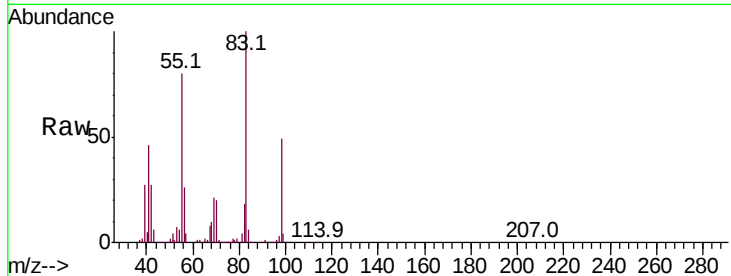




#36
Methvlcvclohexane
Concen: 28.775 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

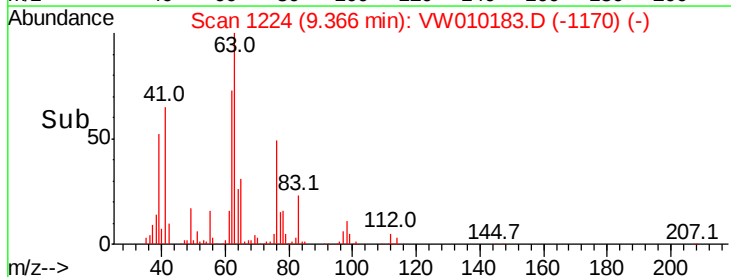
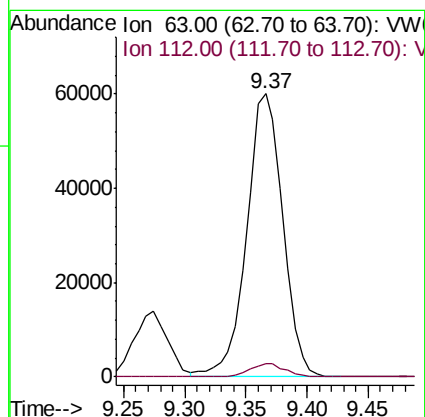
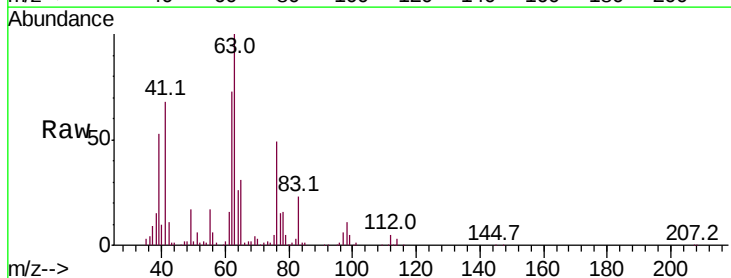
Instrument :
MSVOA_W
ClientSampleId :
A5104

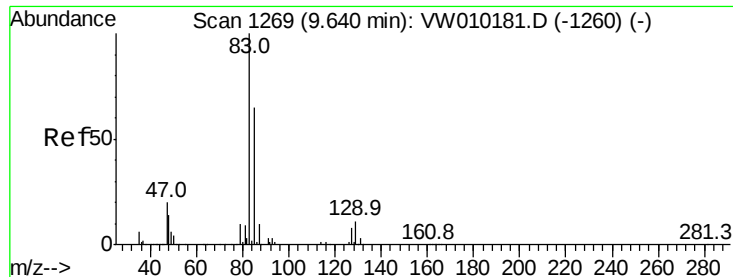
Tot Ion: 83 Resp: 455554
Ion Ratio Lower Upper
83 100
55 80.2 64.5 96.7
98 49.6 39.4 59.2



#40
1,2-Dichloropropane
Concen: 13.362 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

Tgt Ion: 63 Resp: 123714
Ion Ratio Lower Upper
63 100
112 4.8 3.8 5.8





#41

Bromodichloromethane

Concen: 20.678 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampleId :

A5104

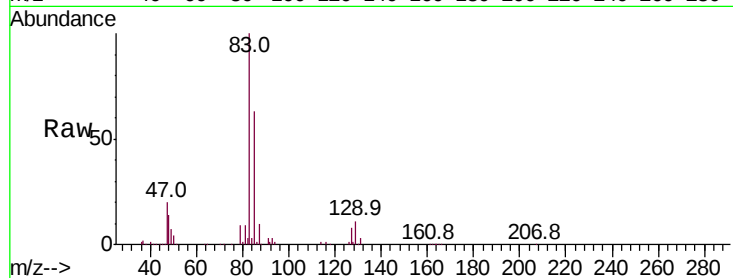
Tot Ion: 83 Resp: 251692

Ion Ratio Lower Upper

83 100

85 63.3 45.8 85.0

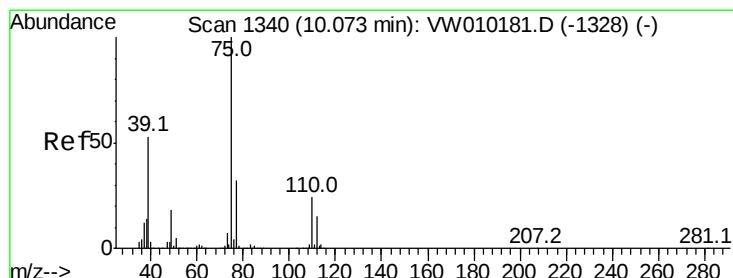
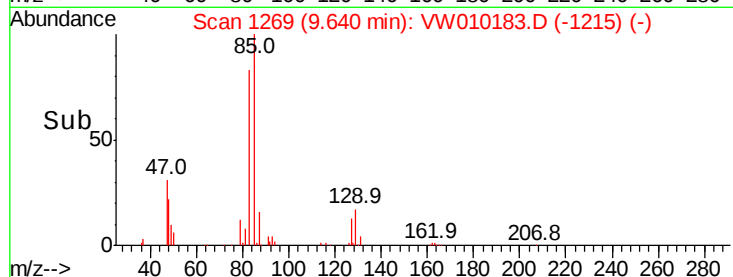
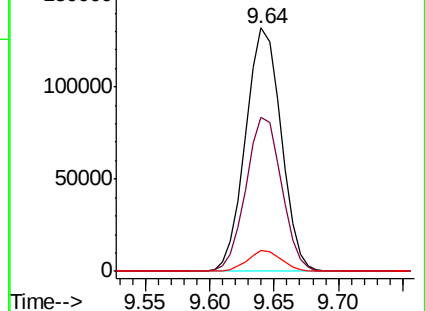
127 8.4 6.6 10.0



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): VW



#42

cis-1,3-Dichloropropene

Concen: 17.939 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010183.D

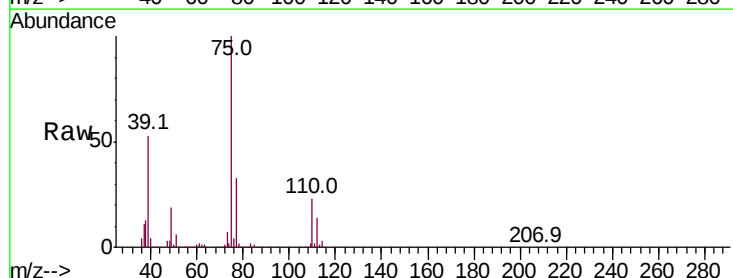
Acq: 29 Apr 2019 16:11

Tgt Ion: 75 Resp: 258369

Ion Ratio Lower Upper

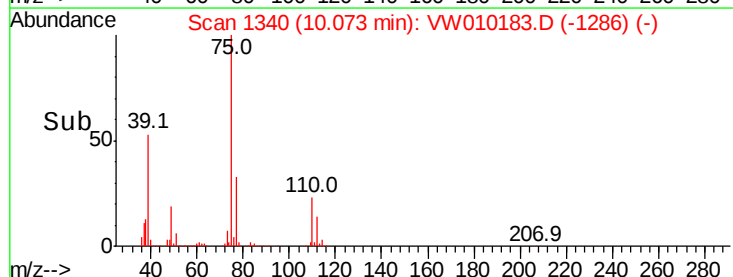
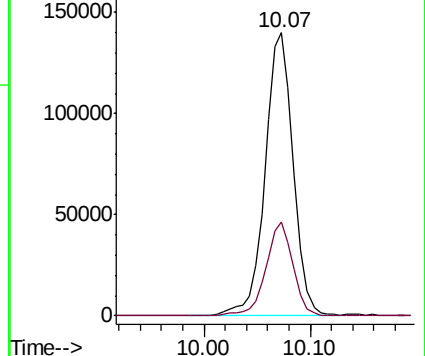
75 100

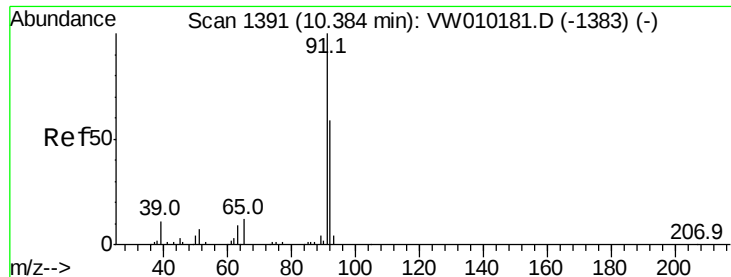
77 33.0 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#44

Toluene

Concen: 22.061 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampled :

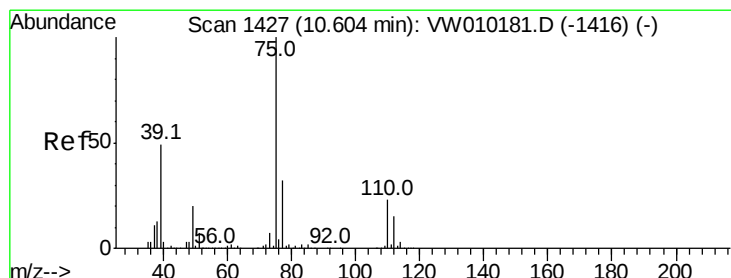
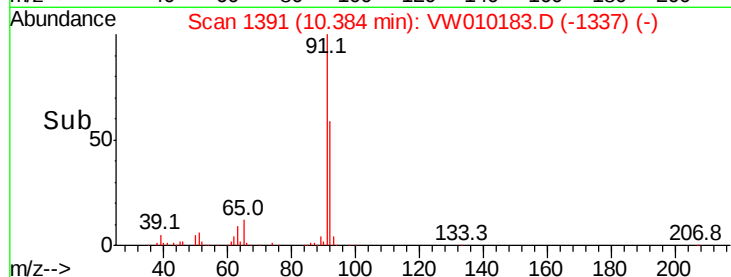
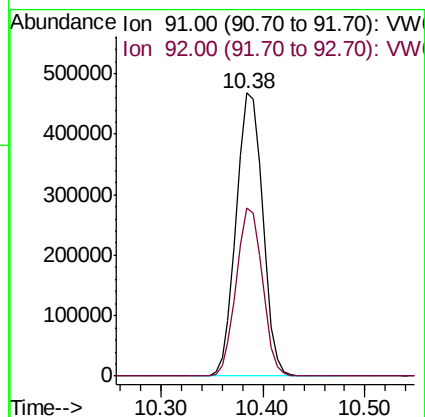
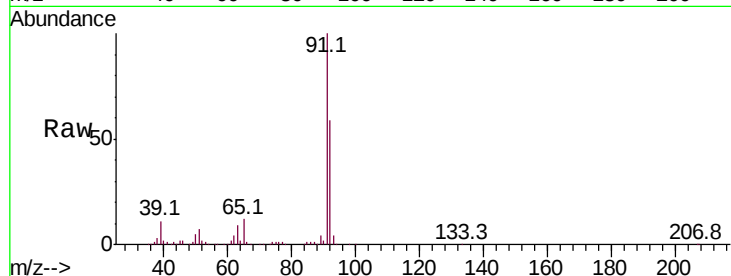
A5104

Tot Ion: 91 Resp: 842389

Ion Ratio Lower Upper

91 100

92 59.5 40.4 75.0



#45

trans-1,3-Dichloropropene

Concen: 8.573 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW010183.D

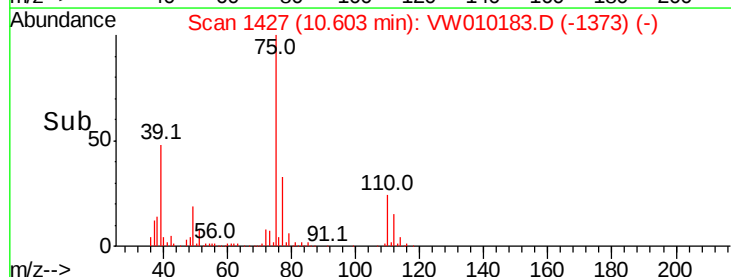
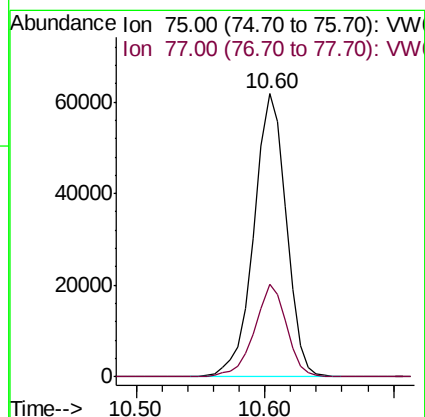
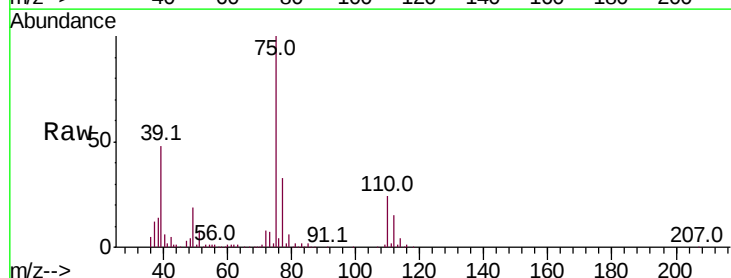
Acq: 29 Apr 2019 16:11

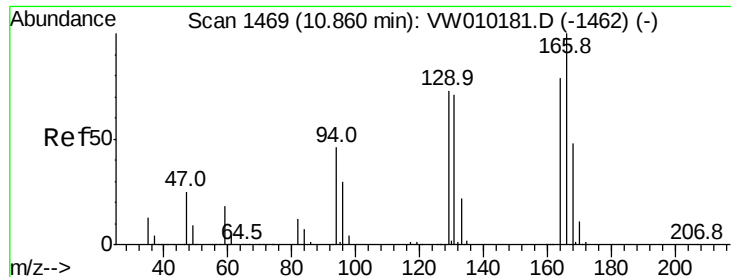
Tgt Ion: 75 Resp: 107418

Ion Ratio Lower Upper

75 100

77 32.7 22.4 41.6

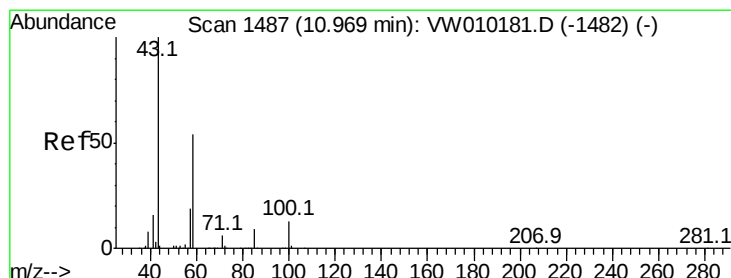
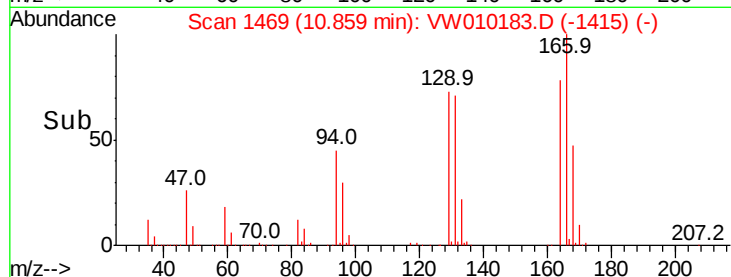
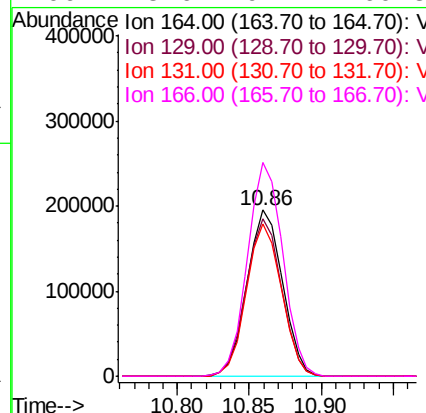
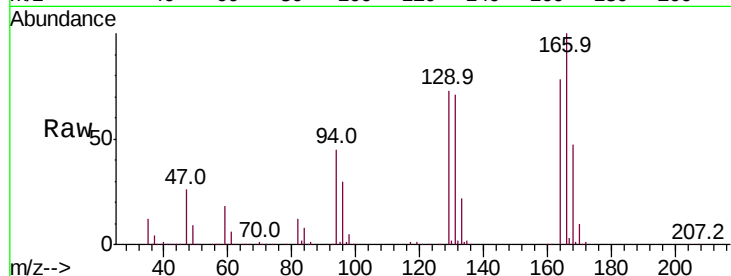




#47
Tetrachloroethene
Concen: 42.228 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

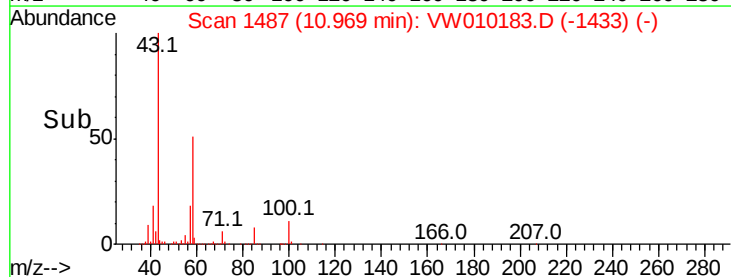
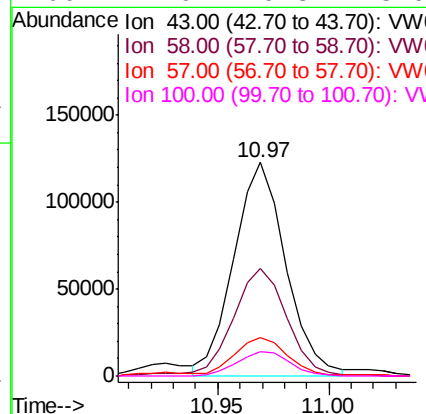
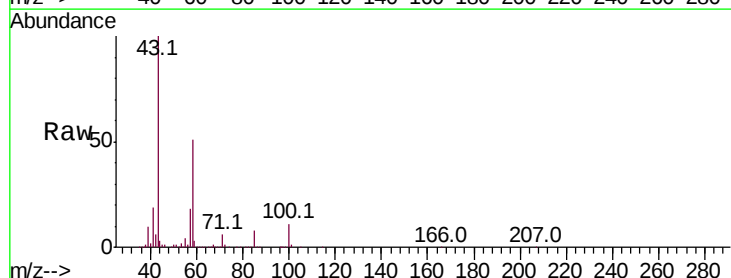
Instrument :
MSVOA_W
ClientSampleId :
A5104

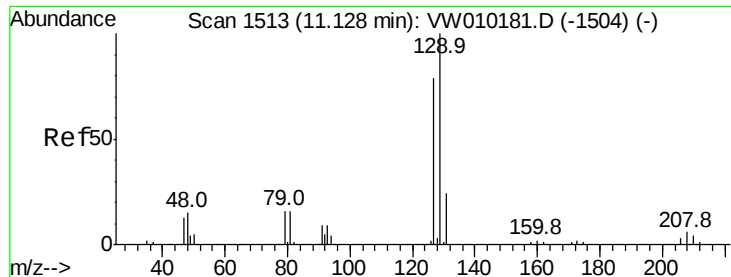
Tot Ion	Ratio	Lower	Upper
164	100		
129	94.5	68.3	126.9
131	91.7	66.8	124.0
166	128.6	91.1	169.3



#49
2-Hexanone
Concen: 42.752 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW010183.D
Acq: 29 Apr 2019 16:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	52.8	41.4	62.2
57	18.3	14.8	22.2
100	11.9	9.3	13.9





#50

Dibromochloromethane

Concen: 19.698 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampled :

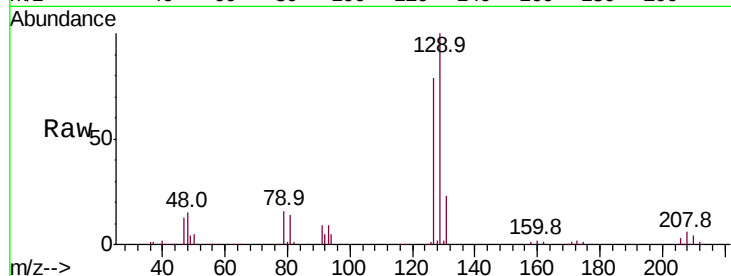
A5104

Tot Ion:129 Resp: 169263

Ion Ratio Lower Upper

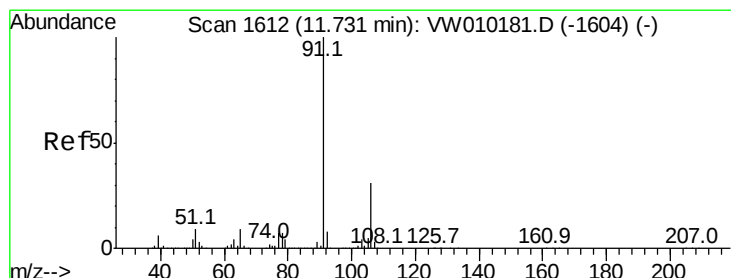
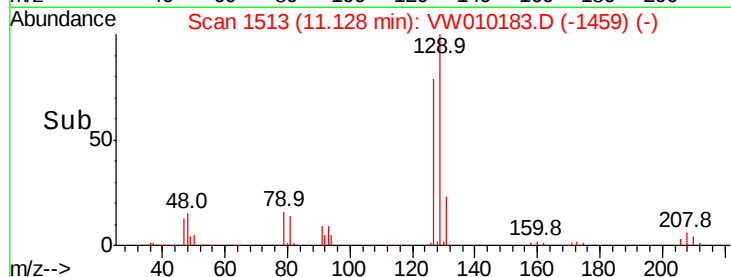
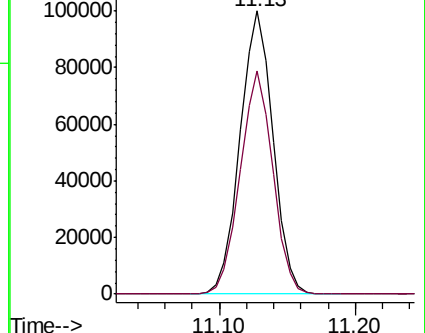
129 100

127 78.9 56.4 104.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#53

Ethylbenzene

Concen: 15.983 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW010183.D

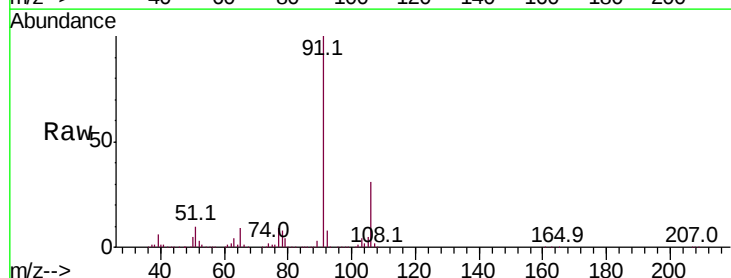
Acq: 29 Apr 2019 16:11

Tgt Ion: 91 Resp: 690981

Ion Ratio Lower Upper

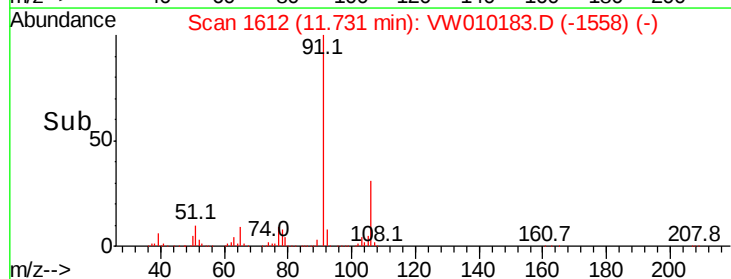
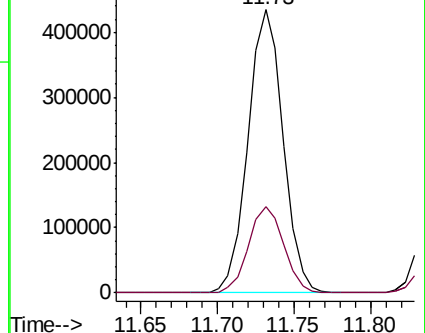
91 100

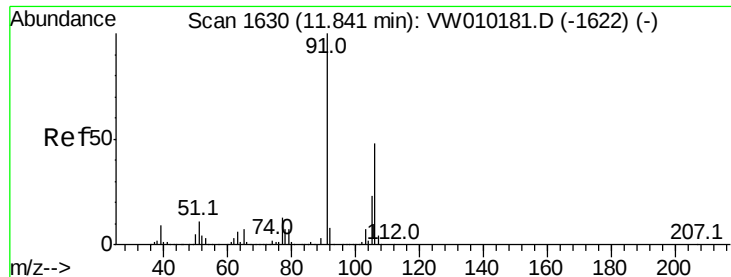
106 30.5 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 10.793 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampled :

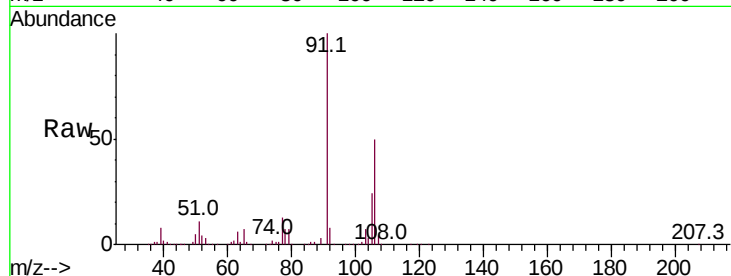
A5104

Tot Ion:106 Resp: 175611

Ion Ratio Lower Upper

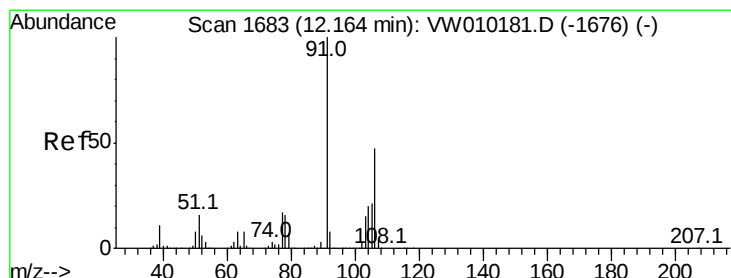
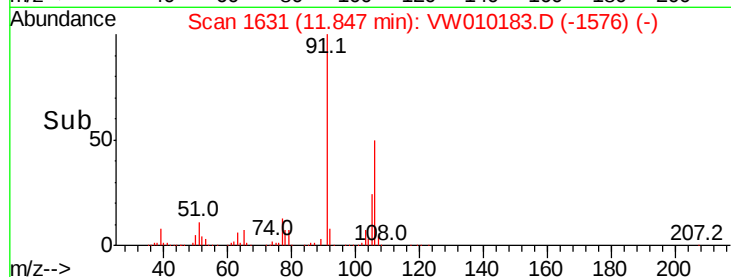
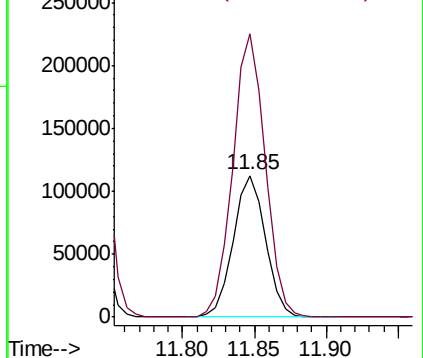
106 100

91 199.6 143.8 267.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 12.828 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW010183.D

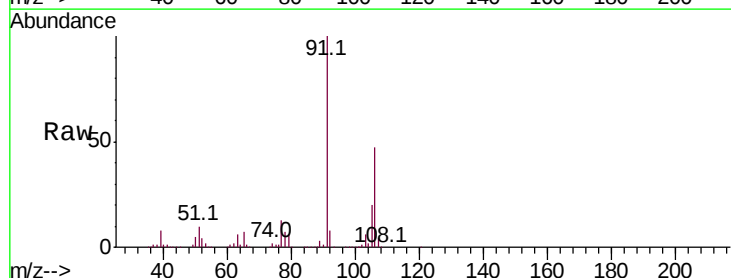
Acq: 29 Apr 2019 16:11

Tgt Ion:106 Resp: 197297

Ion Ratio Lower Upper

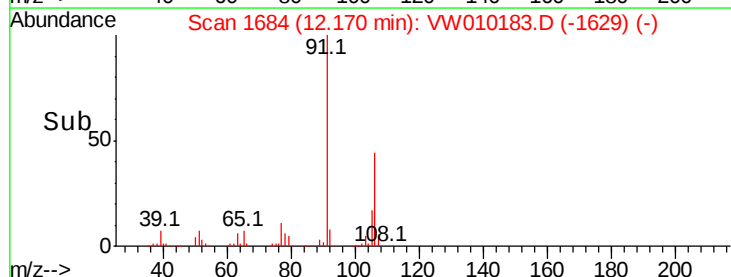
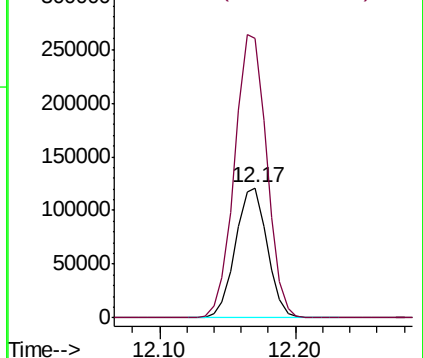
106 100

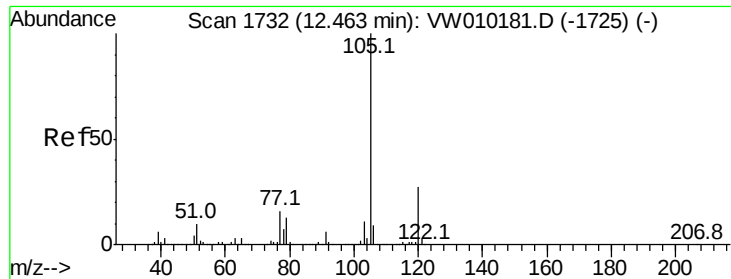
91 215.0 156.2 290.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#57

Isopropylbenzene

Concen: 13.233 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

Instrument :

MSVOA_W

ClientSampleId :

A5104

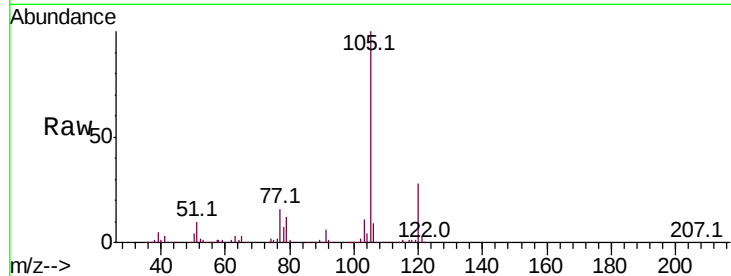
Tot Ion:105 Resp: 553835

Ion Ratio Lower Upper

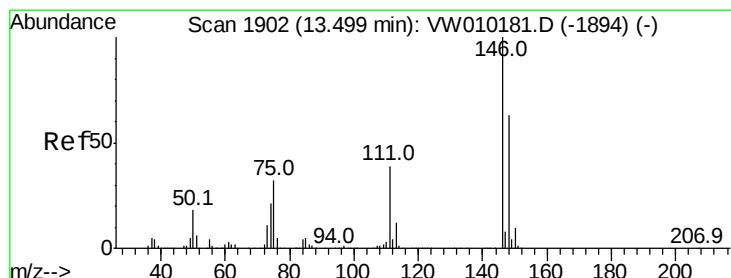
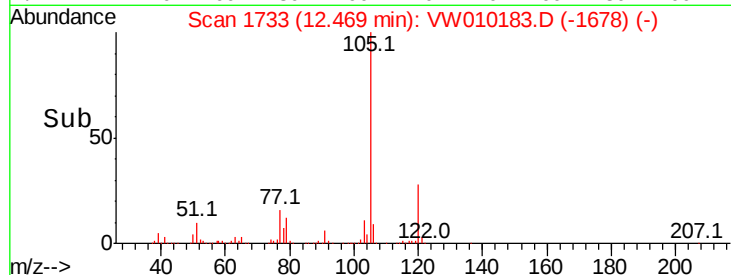
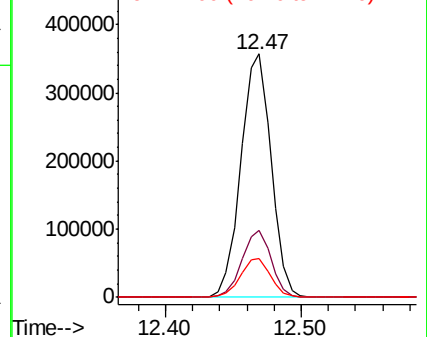
105 100

120 26.7 20.9 31.3

77 16.0 12.6 19.0



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



#63

1,3-Dichlorobenzene

Concen: 21.177 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010183.D

Acq: 29 Apr 2019 16:11

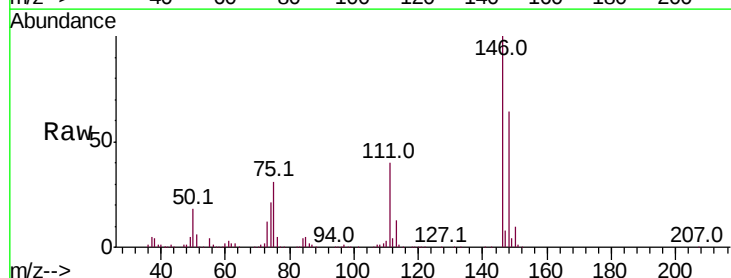
Tgt Ion:146 Resp: 399496

Ion Ratio Lower Upper

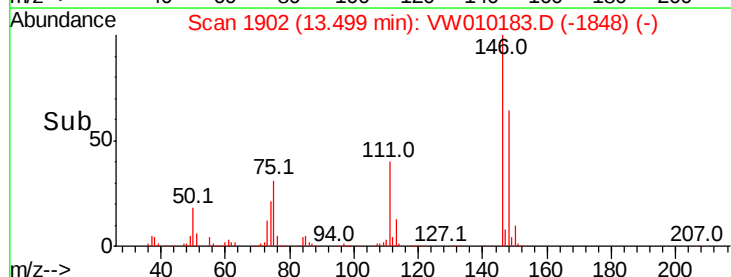
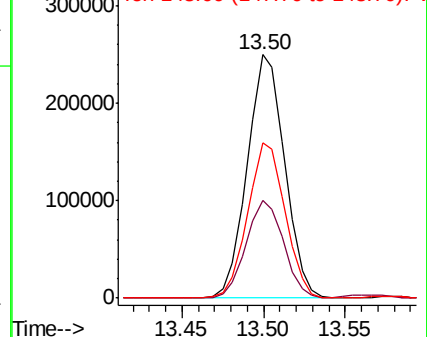
146 100

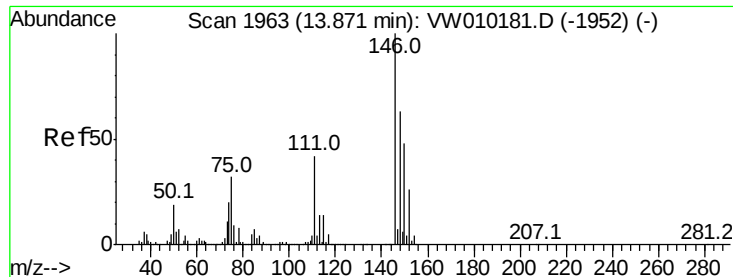
111 40.4 29.3 54.5

148 63.6 44.3 82.3



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

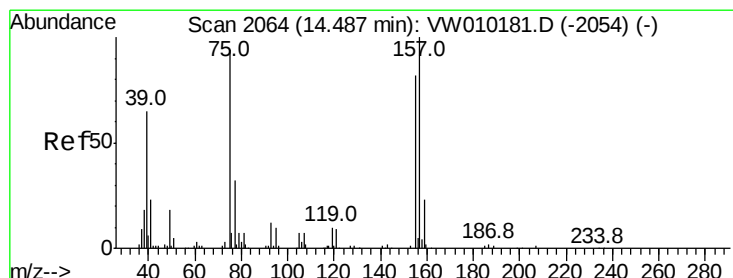
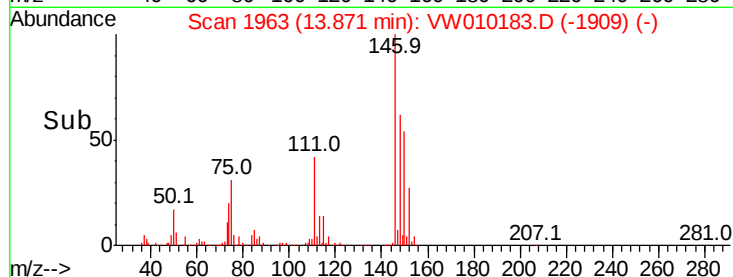
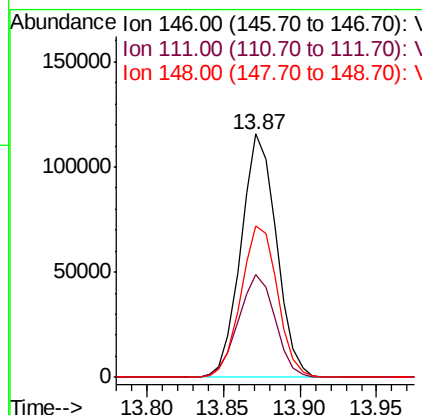
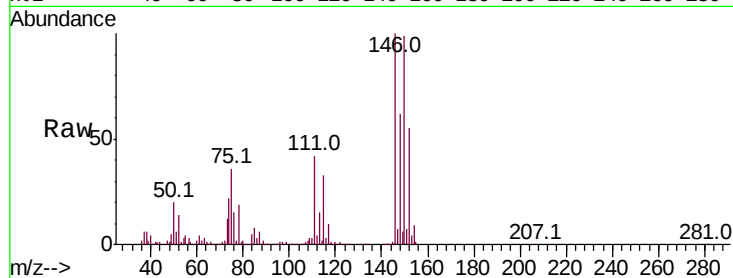




#65
 1,2-Dichlorobenzene
 Concen: 10.503 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW010183.D
 Acq: 29 Apr 2019 16:11

Instrument :
 MSVOA_W
 ClientSampleId :
 A5104

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	35.0	52.4
148	62.3	51.2	76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 18.211 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW010183.D
 Acq: 29 Apr 2019 16:11

Tgt Ion	Ratio	Lower	Upper
75	100		
157	105.0	85.7	128.5
155	80.1	70.8	106.2

