

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW050719\
 Data File : VW010299.D
 Acq On : 07 May 2019 14:59
 Operator : SY/VA
 Sample : K2690-01
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A5106

Quant Time: May 08 05:18:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM050719S.M
 Quant Title : VOC Analysis
 QLast Update : Wed May 08 02:05:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	575410	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	538663	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	268619	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	167491	25.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.00%
7) Chloroethane-d5	2.89	69	119596	21.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.36%
10) 1,1-Dichloroethene-d2	4.01	63	352906	21.14	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.56%
20) 2-Butanone-d5	7.08	46	176957	57.01	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	114.02%
24) Chloroform-d	7.64	84	364827	23.80	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	8.30	65	214054	23.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.36%
29) Benzene-d6	8.27	84	723256	24.72	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	98.88%
33) 1,2-Dichloropropane-d6	9.27	67	217725	24.34	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.36%
37) Toluene-d8	10.32	98	654390	25.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.36%
38) trans-1,3-Dichloropropene-	10.57	79	101761	24.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.52%
39) 2-Hexanone-d5	10.93	63	137011	59.94	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	119.88%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	222697	26.18	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	104.72%
61) 1,2-Dichlorobenzene-d4	13.86	152	220925	24.10	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	86432	11.237	ug/L	96
5) Vinyl chloride	2.37	62	102880	11.853	ug/L	96
8) Chloroethane	2.92	64	83745	16.027	ug/L	98
12) 1,1-Dichloroethene	4.03	96	109904	14.069	ug/L #	83
13) Acetone	4.13	43	419265	157.853	ug/L	99
14) Carbon disulfide	4.37	76	508456	21.269	ug/L	97
16) Methylene chloride	4.91	84	248057	31.844	ug/L	96
18) trans-1,2-Dichloroethene	5.41	96	209818	26.038	ug/L	98
19) 1,1-Dichloroethane	6.21	63	158245	10.245	ug/L	97
22) cis-1,2-Dichloroethene	7.16	96	263421	31.658	ug/L	98
23) Bromochloromethane	7.51	128	148563	39.795	ug/L	98
25) Chloroform	7.67	83	176314	11.559	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	476562	38.849	ug/L	99
32) Carbon tetrachloride	8.07	117	179970	14.761	ug/L	100
35) Trichloroethene	9.09	95	274119	31.379	ug/L	99
40) 1,2-Dichloropropane	9.37	63	164166	19.458	ug/L	98
41) Bromodichloromethane	9.64	83	135725	12.432	ug/L #	99

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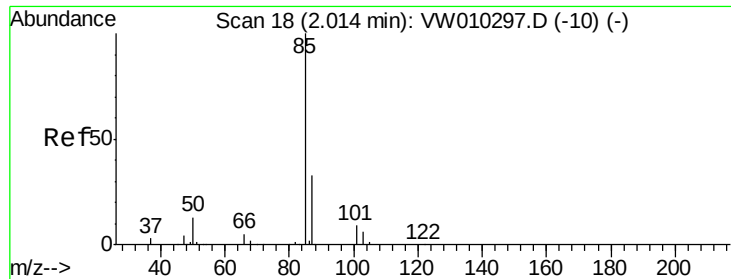
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) cis-1,3-Dichloropropene	10.07	75	140545	11.132	uq/L	99
43) 4-Methyl-2-pentanone	10.21	43	326303	43.414	uq/L	99
45) trans-1,3-Dichloropropene	10.60	75	229792	21.109	uq/L	99
46) 1,1,2-Trichloroethane	10.79	97	66113	10.491	uq/L	98
47) Tetrachloroethene	10.86	164	138877	21.025	uq/L	97
49) 2-Hexanone	10.97	43	331145	58.096	uq/L	96
50) Dibromochloromethane	11.13	129	92863	12.811	uq/L	96
51) 1,2-Dibromoethane	11.23	107	128661	20.728	uq/L	98
56) Styrene	12.18	104	419312	18.565	uq/L	96
58) 1,1,2,2-Tetrachloroethane	12.71	83	256657	29.634	uq/L	99
62) Bromoform	12.35	173	91933	19.900	uq/L	99
63) 1,3-Dichlorobenzene	13.50	146	422129	26.393	uq/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	74586	40.674	uq/L	94
70) 1,2,3-Trichlorobenzene	15.56	180	89188	9.793	uq/L	99

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



#2

Dichlorodifluoromethane

Concen: 11.237 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampleId :

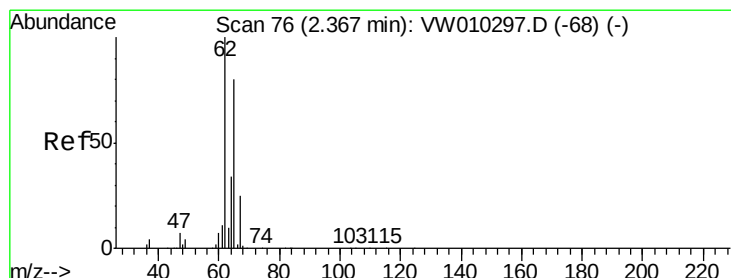
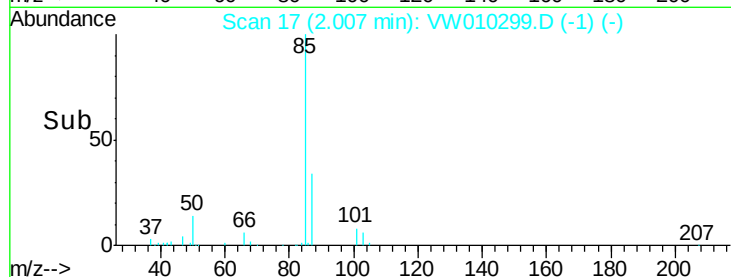
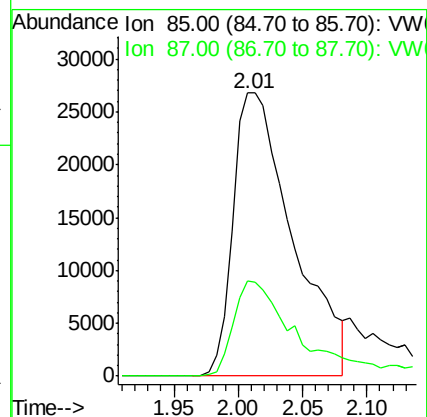
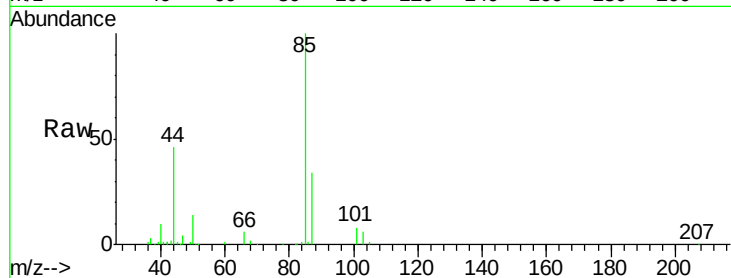
A5106

Tot Ion: 85 Resp: 86432

Ion Ratio Lower Upper

85 100

87 28.8 18.7 34.7



#5

Vinyl chloride

Concen: 11.853 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW010299.D

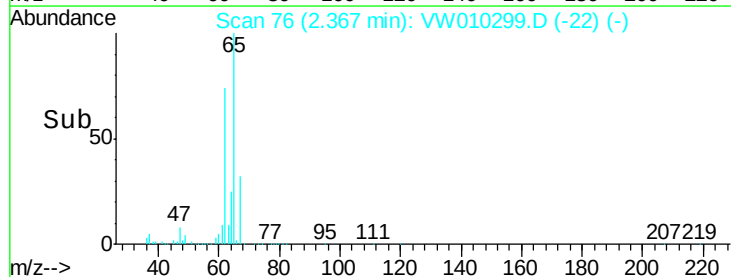
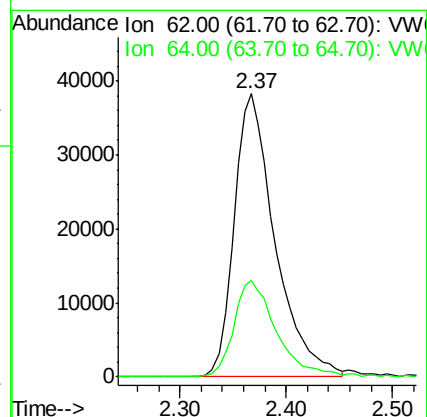
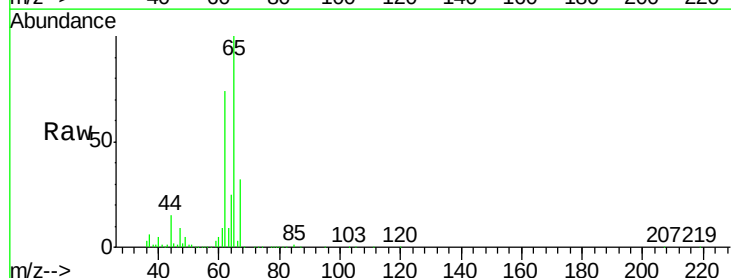
Acq: 07 May 2019 14:59

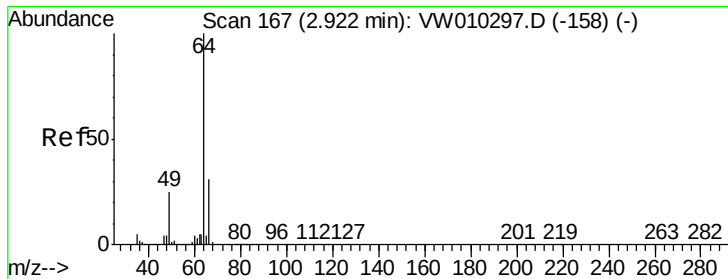
Tgt Ion: 62 Resp: 102880

Ion Ratio Lower Upper

62 100

64 34.0 22.1 41.1





#8

Chloroethane

Concen: 16.027 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampleId :

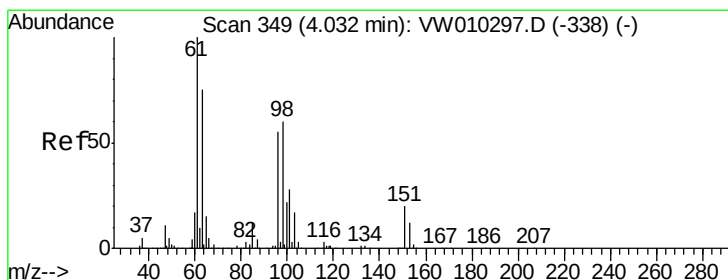
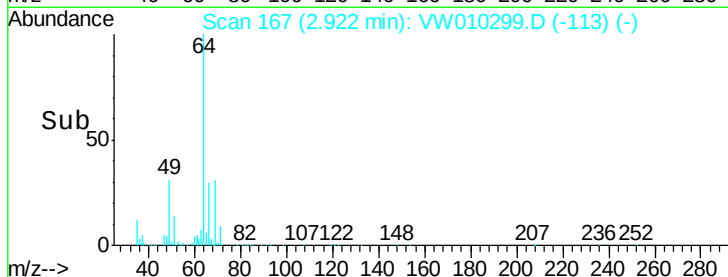
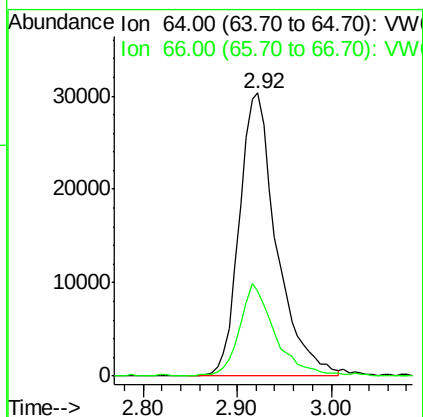
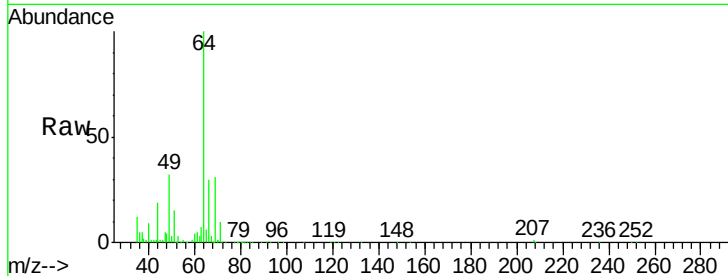
A5106

Tot Ion: 64 Resp: 83745

Ion Ratio Lower Upper

64 100

66 29.8 21.5 39.9



#12

1,1-Dichloroethene

Concen: 14.069 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

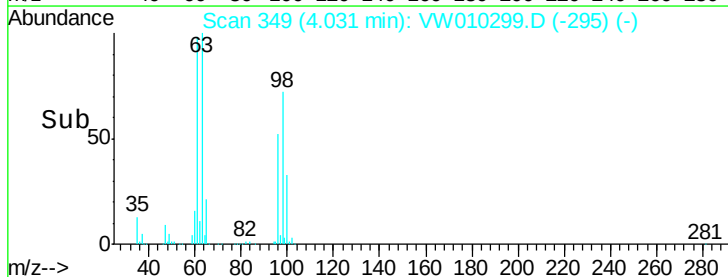
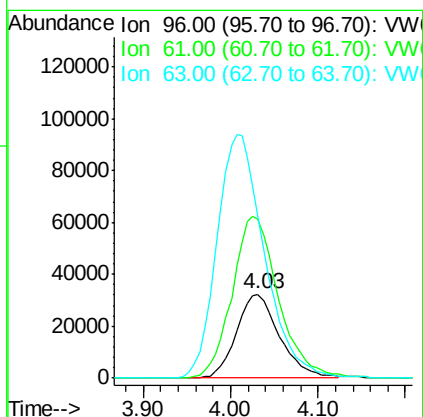
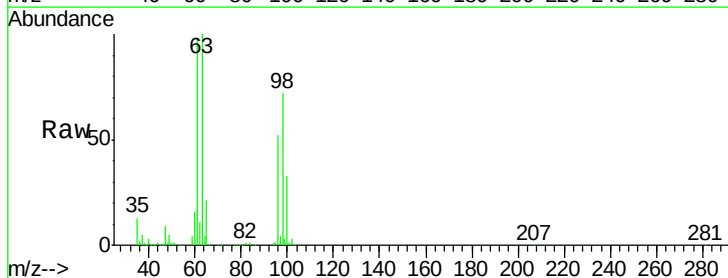
Tgt Ion: 96 Resp: 109904

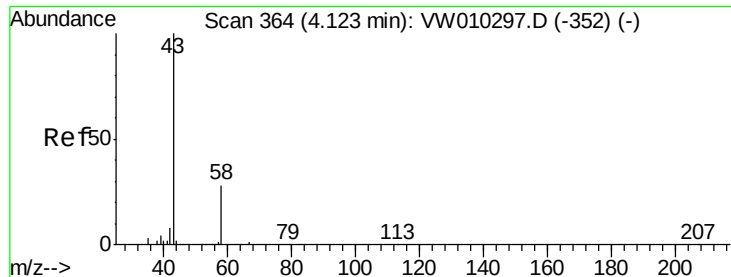
Ion Ratio Lower Upper

96 100

61 189.6 135.1 250.9

63 193.2 103.1 191.5#





#13

Acetone

Concen: 157.853 ug/L

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampleId :

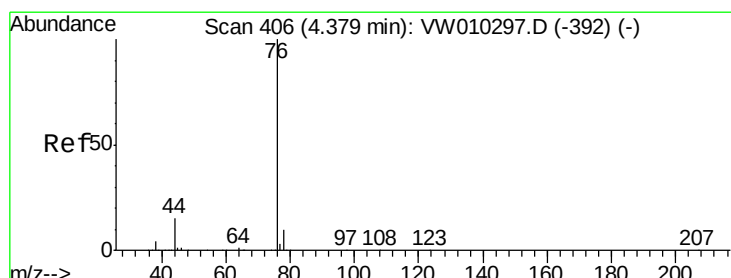
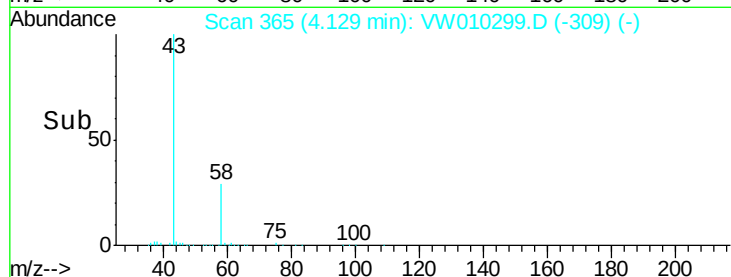
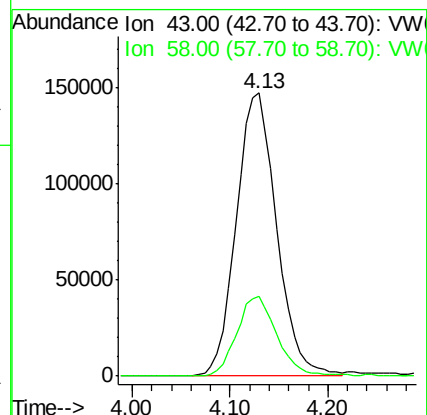
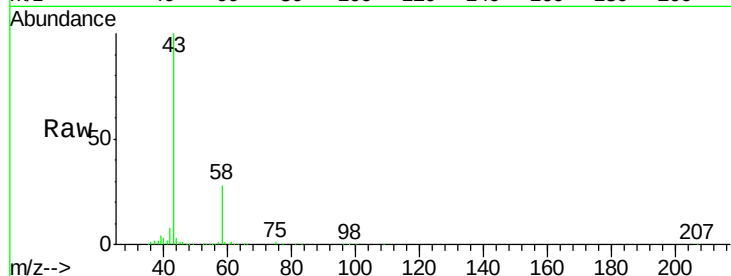
A5106

Tot Ion: 43 Resp: 419265

Ion Ratio Lower Upper

43 100

58 28.0 0.0 55.2



#14

Carbon disulfide

Concen: 21.269 ug/L

RT: 4.37 min Scan# 405

Delta R.T. 0.00 min

Lab File: VW010299.D

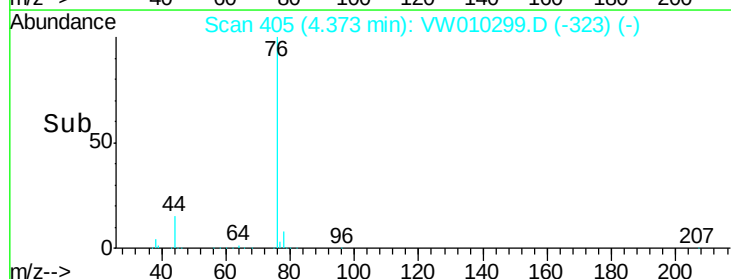
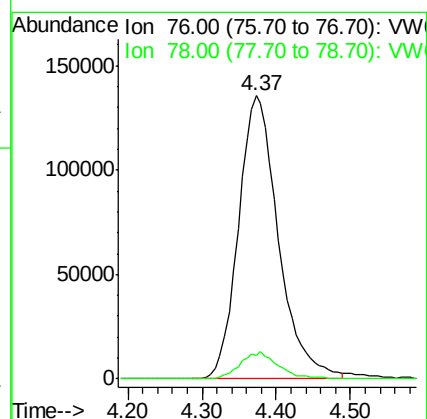
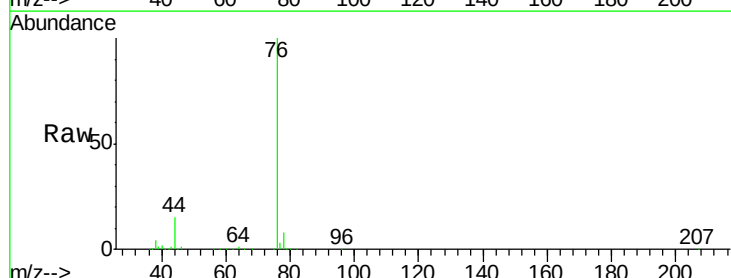
Acq: 07 May 2019 14:59

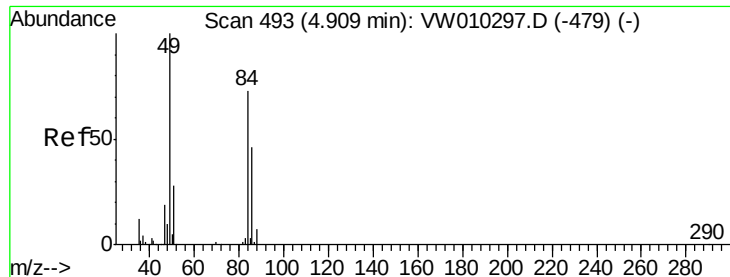
Tgt Ion: 76 Resp: 508456

Ion Ratio Lower Upper

76 100

78 8.3 7.5 11.3

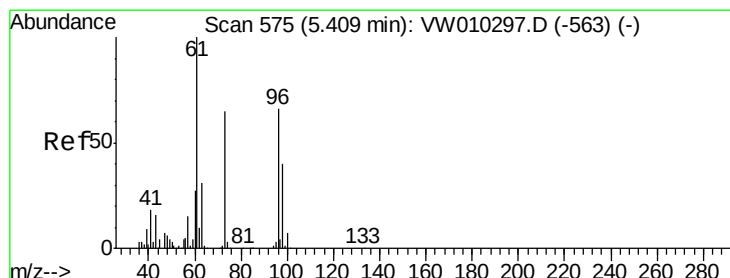
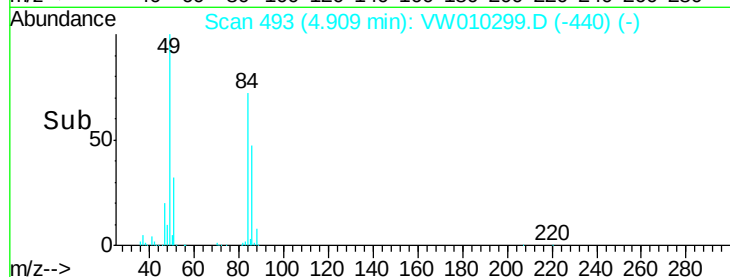
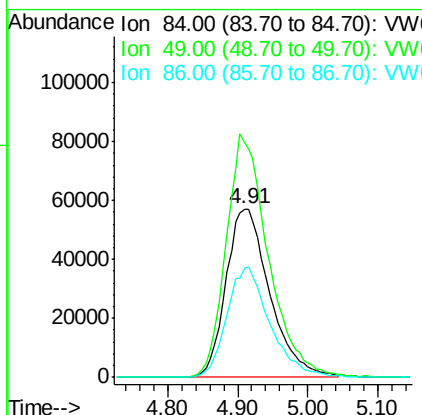
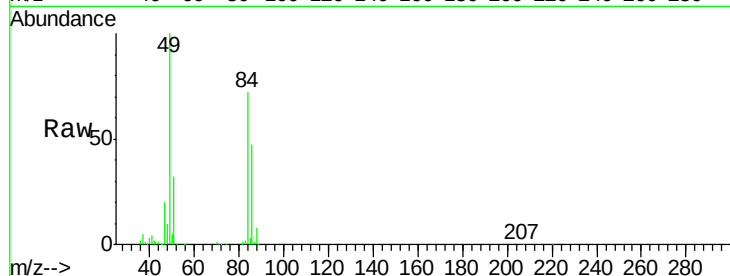




#16
Methylene chloride
Concen: 31.844 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW010299.D
Acq: 07 May 2019 14:59

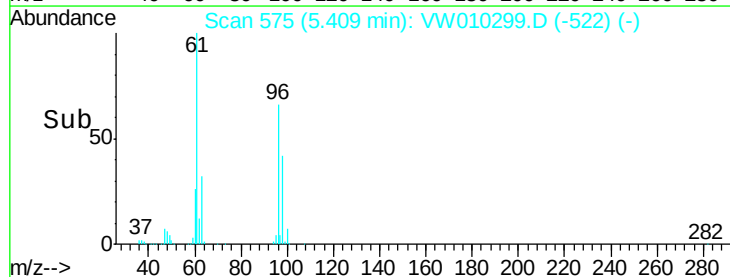
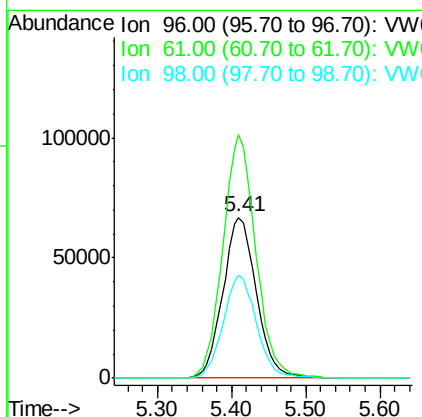
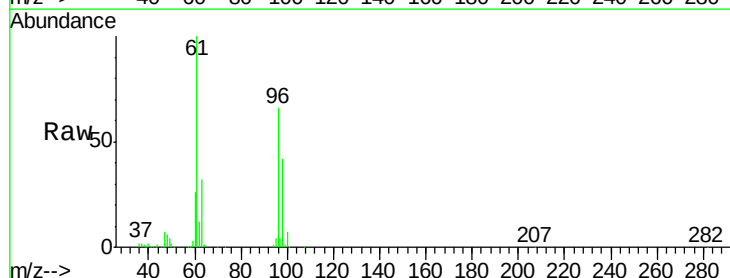
Instrument :
MSVOA_W
ClientSampled :
A5106

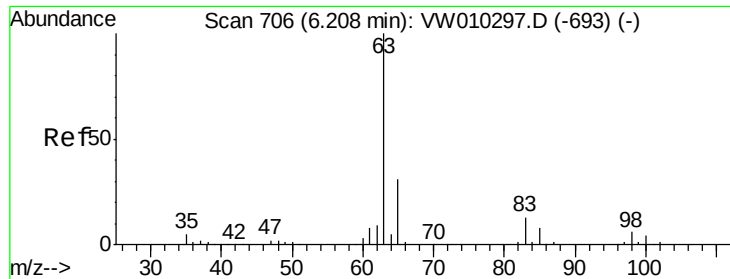
Tot Ion: 84 Resp: 248057
Ion Ratio Lower Upper
84 100
49 139.8 94.4 175.4
86 65.3 43.8 81.4



#18
trans-1,2-Dichloroethene
Concen: 26.038 ug/L
RT: 5.41 min Scan# 575
Delta R.T. -0.01 min
Lab File: VW010299.D
Acq: 07 May 2019 14:59

Tgt Ion: 96 Resp: 209818
Ion Ratio Lower Upper
96 100
61 151.5 103.7 192.7
98 64.1 43.6 81.0

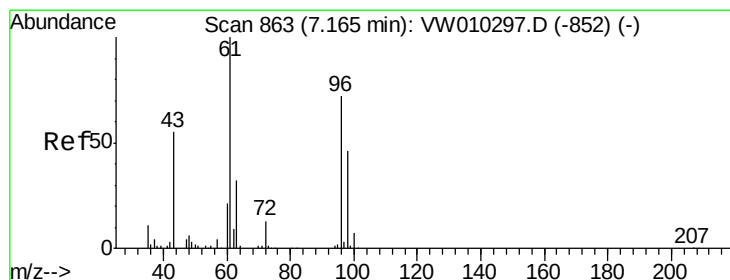
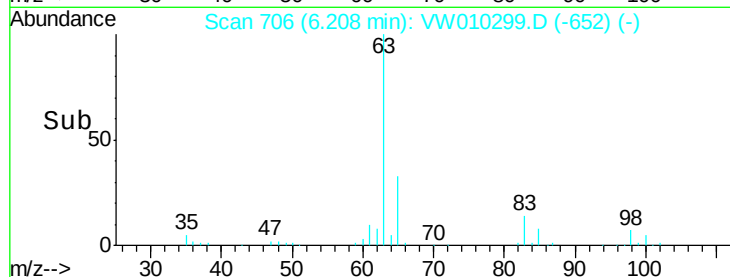
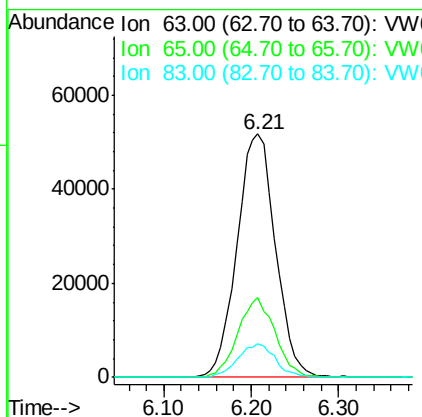
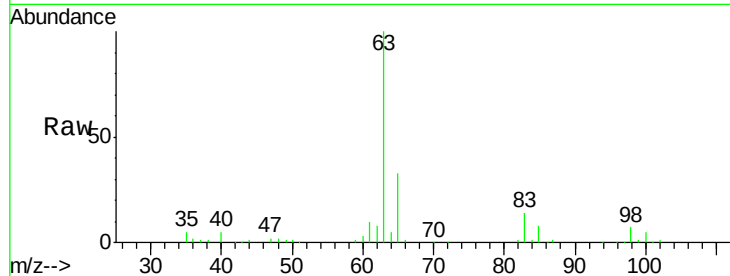




#19
 1,1-Dichloroethane
 Concen: 10.245 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW010299.D
 Acq: 07 May 2019 14:59

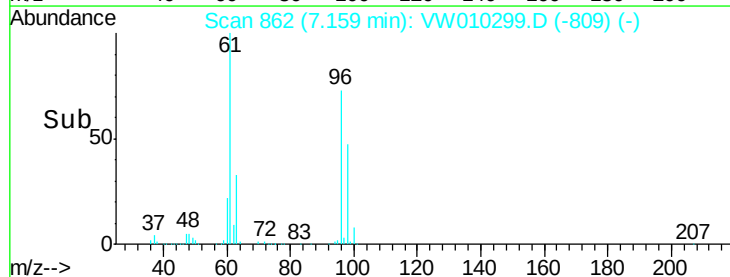
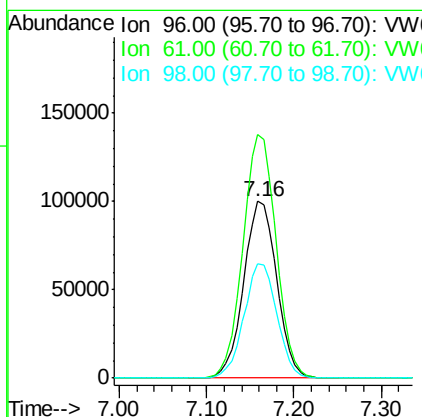
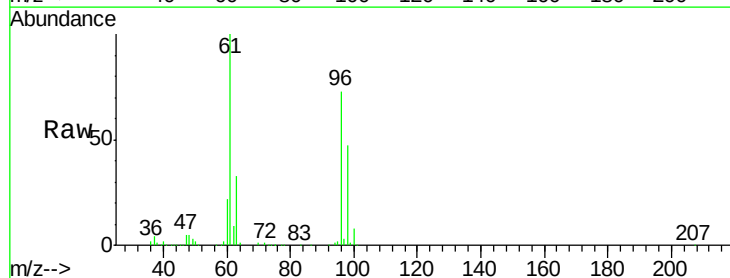
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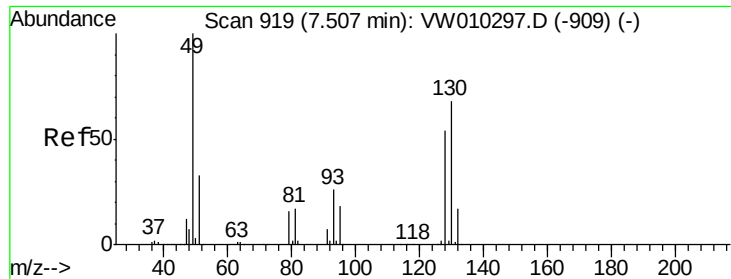
Tot Ion: 63 Resp: 158245
 Ion Ratio Lower Upper
 63 100
 65 33.0 21.8 40.4
 83 13.8 9.2 17.2



#22
 cis-1,2-Dichloroethene
 Concen: 31.658 ug/L
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW010299.D
 Acq: 07 May 2019 14:59

Tgt Ion: 96 Resp: 263421
 Ion Ratio Lower Upper
 96 100
 61 137.8 98.2 182.4
 98 64.4 45.8 85.2





#23

Bromochloromethane

Concen: 39.795 ug/L

RT: 7.51 min Scan# 919

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :
MSVOA_W
ClientSampleId :
A5106

Tot Ion:128 Resp: 148563

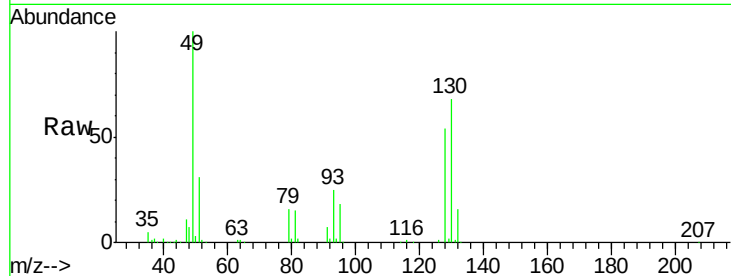
Ion Ratio Lower Upper

128 100

49 185.8 132.5 246.1

130 125.8 86.7 161.1

51 57.6 45.9 68.9

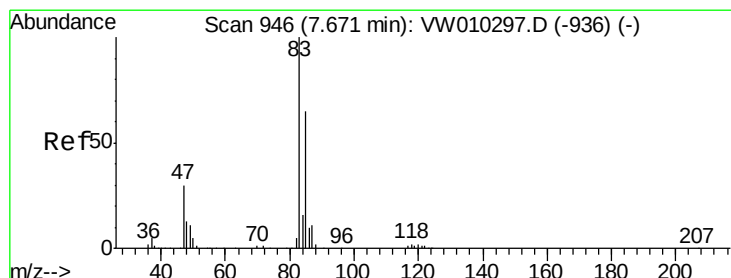
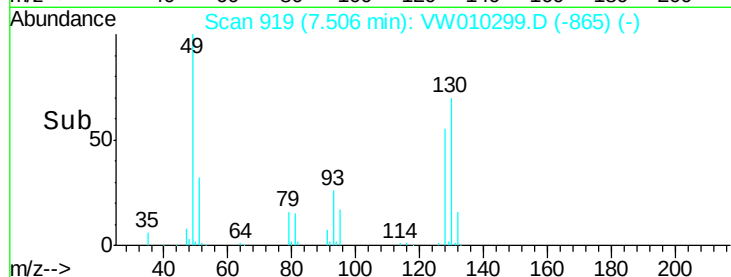
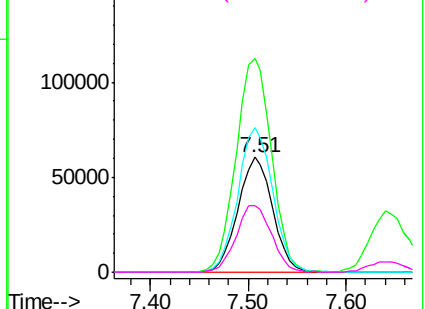


Abundance Ion 128.00 (127.70 to 128.70): V

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



#25

Chloroform

Concen: 11.559 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW010299.D

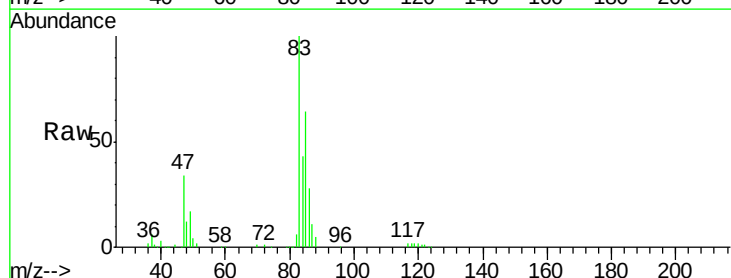
Acq: 07 May 2019 14:59

Tgt Ion: 83 Resp: 176314

Ion Ratio Lower Upper

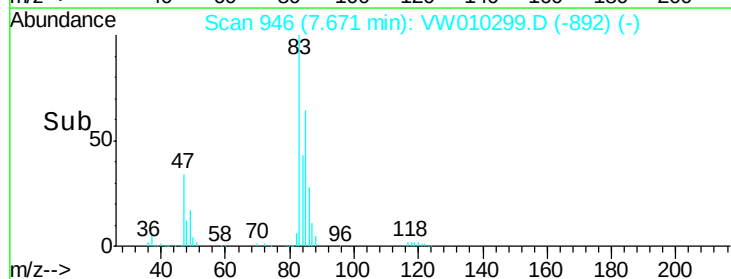
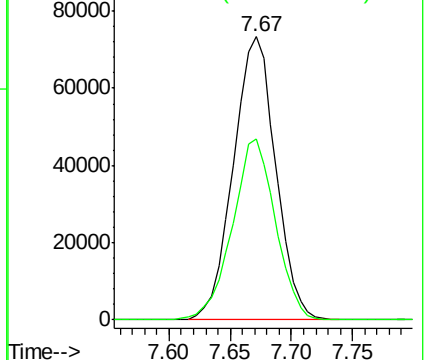
83 100

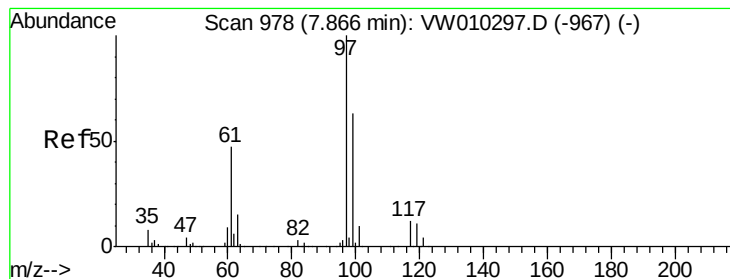
85 65.2 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#31

1,1,1-Trichloroethane

Concen: 38.849 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampled :

A5106

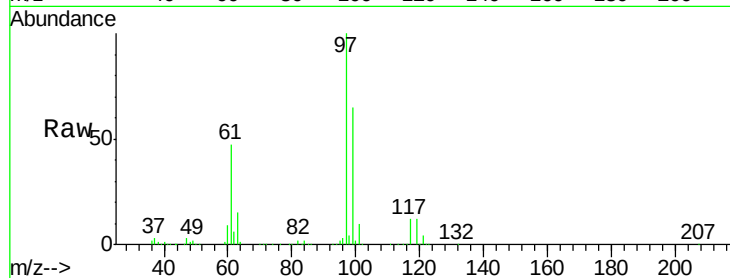
Tot Ion: 97 Resp: 476562

Ion Ratio Lower Upper

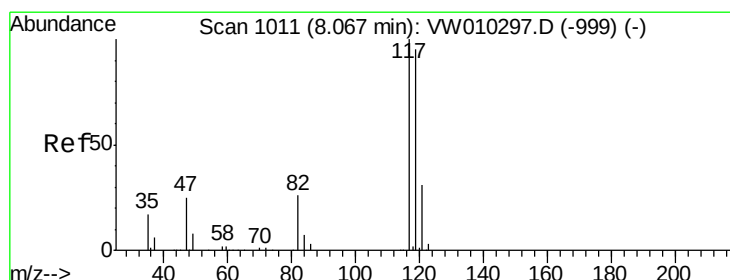
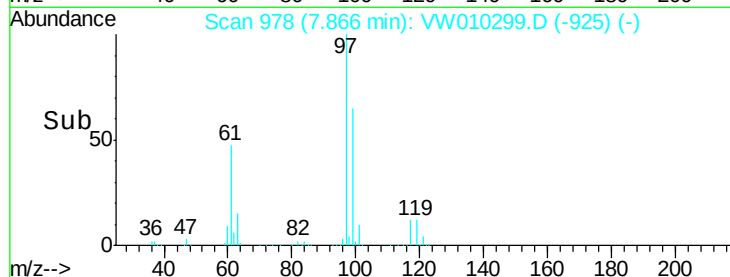
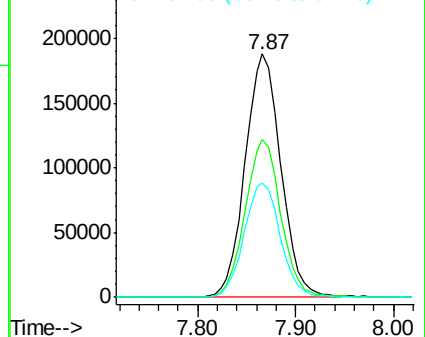
97 100

99 64.8 51.8 77.6

61 47.6 39.3 58.9



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 14.761 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW010299.D

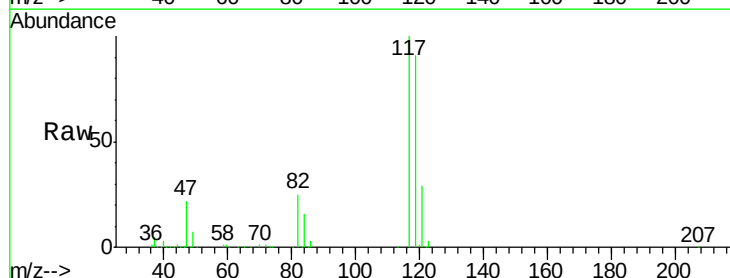
Acq: 07 May 2019 14:59

Tgt Ion: 117 Resp: 179970

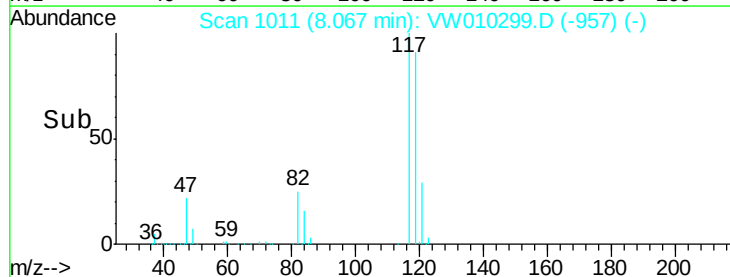
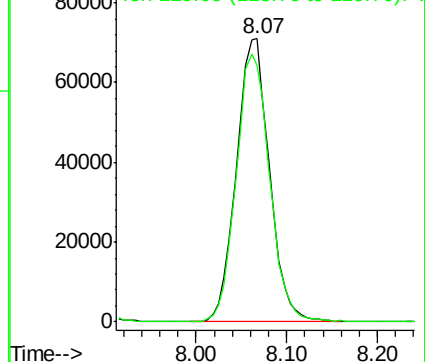
Ion Ratio Lower Upper

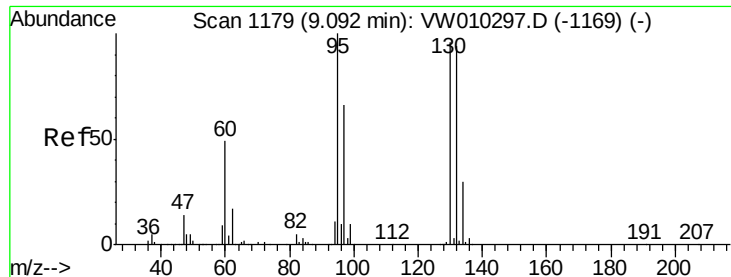
117 100

119 95.9 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V





#35

Trichloroethene

Concen: 31.379 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampled :

A5106

Tot Ion: 95 Resp: 274119

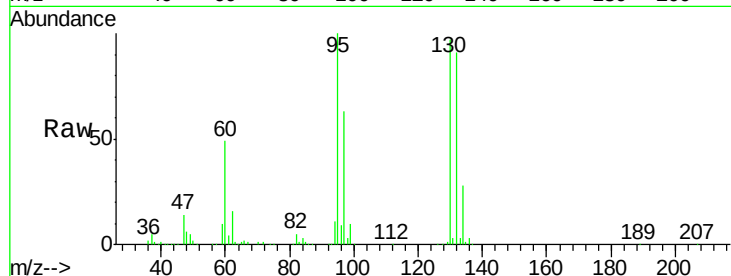
Ion Ratio Lower Upper

95 100

97 64.2 44.8 83.2

132 94.1 64.7 120.1

130 98.8 68.3 126.9

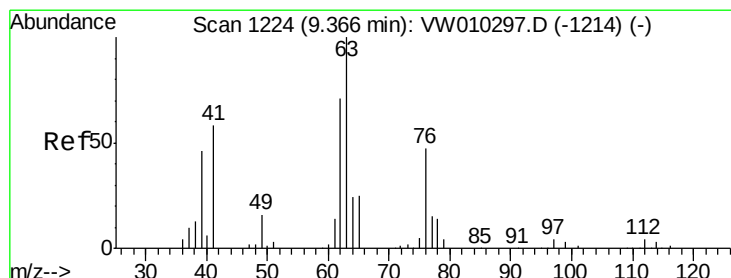
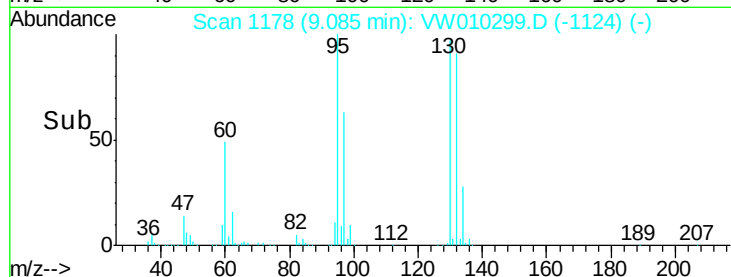
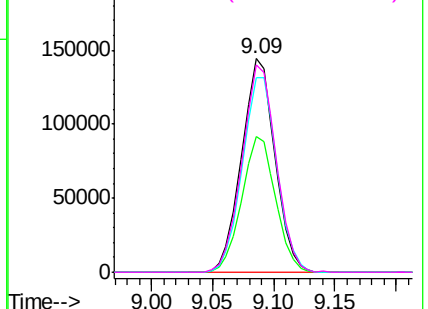


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#40

1,2-Dichloropropane

Concen: 19.458 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW010299.D

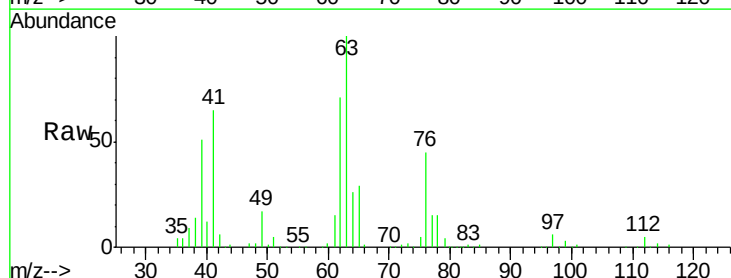
Acq: 07 May 2019 14:59

Tgt Ion: 63 Resp: 164166

Ion Ratio Lower Upper

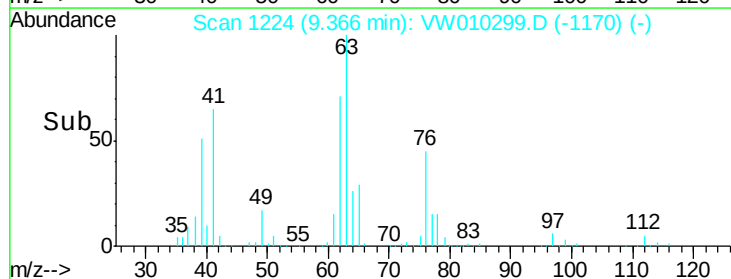
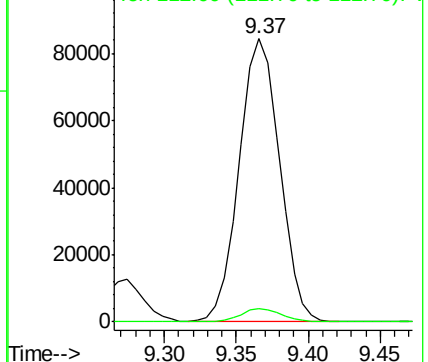
63 100

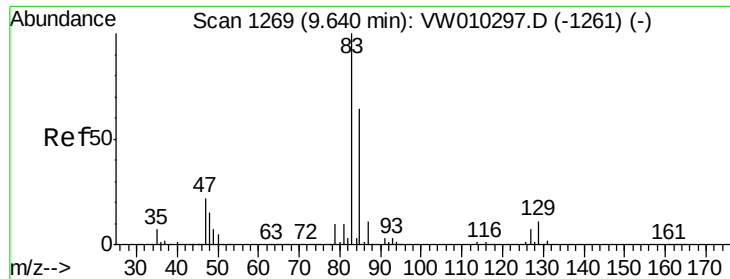
112 4.7 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V





#41

Bromodichloromethane

Concen: 12.432 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampleId :

A5106

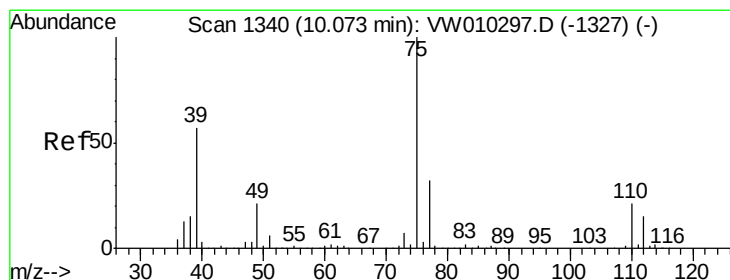
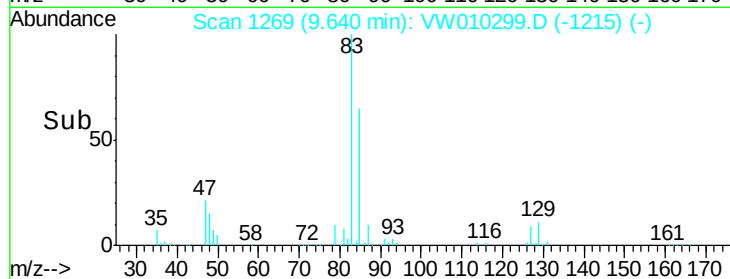
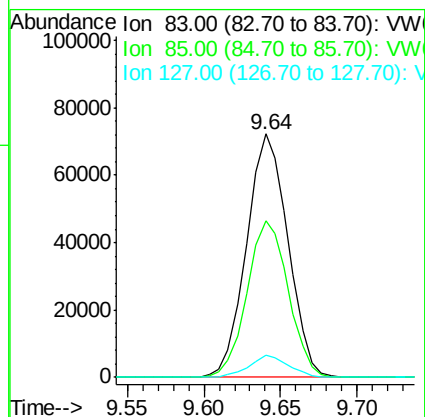
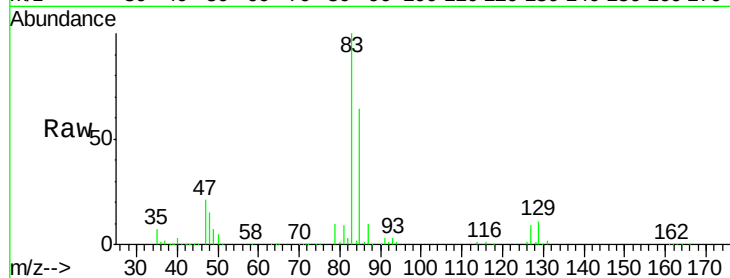
Tot Ion: 83 Resp: 135725

Ion Ratio Lower Upper

83 100

85 64.3 45.5 84.5

127 9.2 5.6 8.4#



#42

cis-1,3-Dichloropropene

Concen: 11.132 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW010299.D

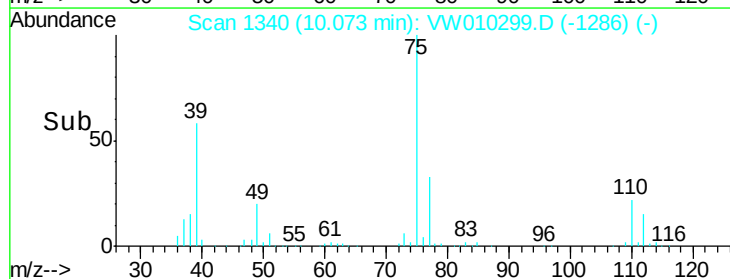
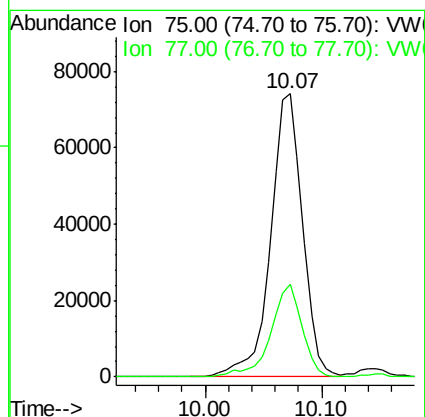
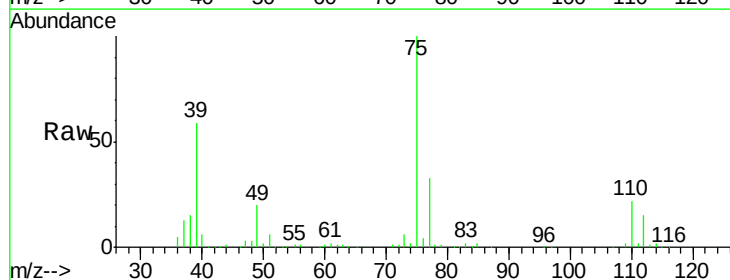
Acq: 07 May 2019 14:59

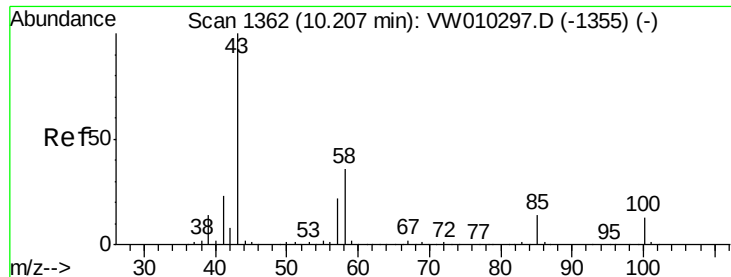
Tgt Ion: 75 Resp: 140545

Ion Ratio Lower Upper

75 100

77 32.6 22.5 41.7





#43

4-Methyl-2-pentanone

Concen: 43.414 ug/L

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampled :

A5106

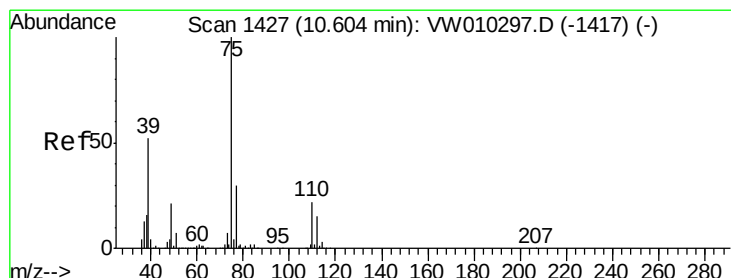
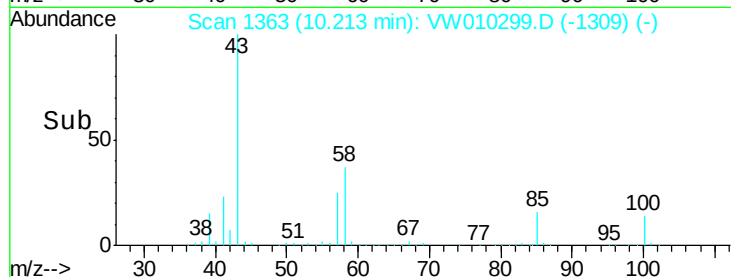
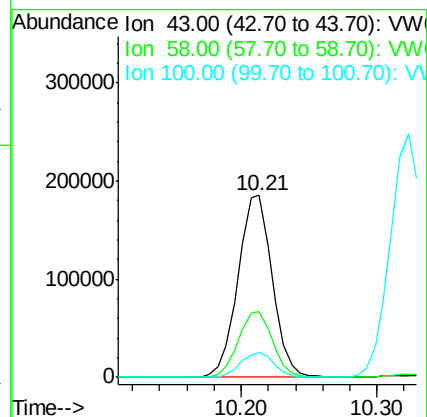
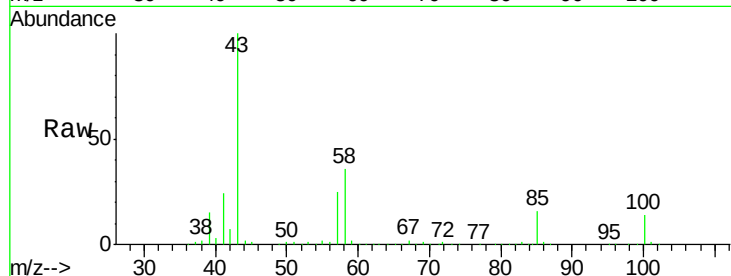
Tot Ion: 43 Resp: 326303

Ion Ratio Lower Upper

43 100

58 36.1 28.3 42.5

100 13.4 10.5 15.7



#45

trans-1,3-Dichloropropene

Concen: 21.109 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW010299.D

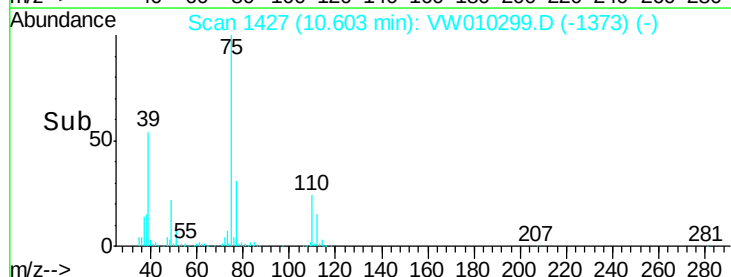
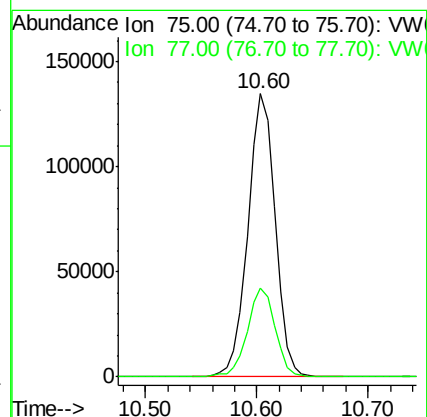
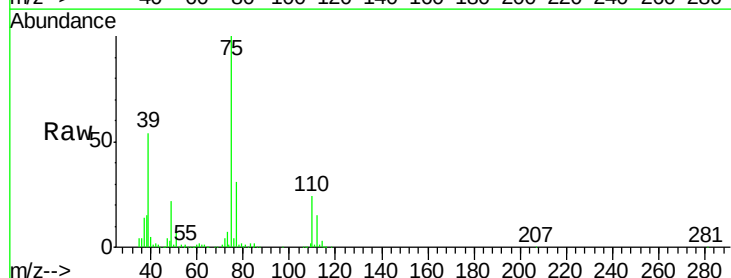
Acq: 07 May 2019 14:59

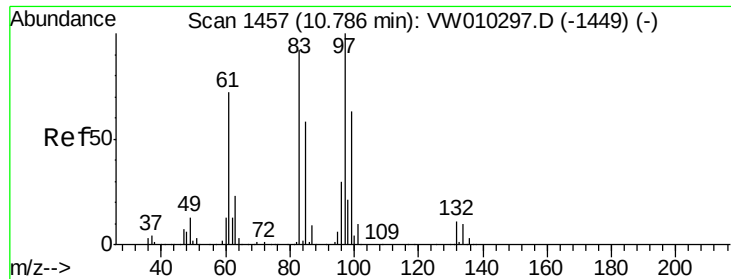
Tgt Ion: 75 Resp: 229792

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1



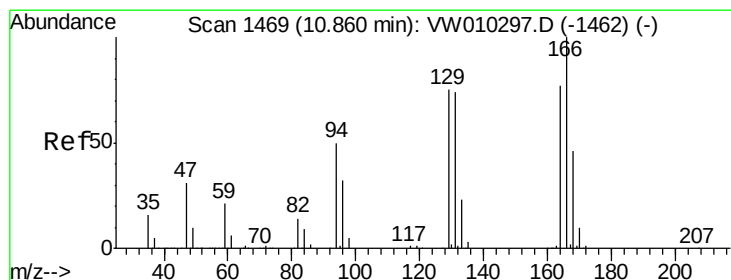
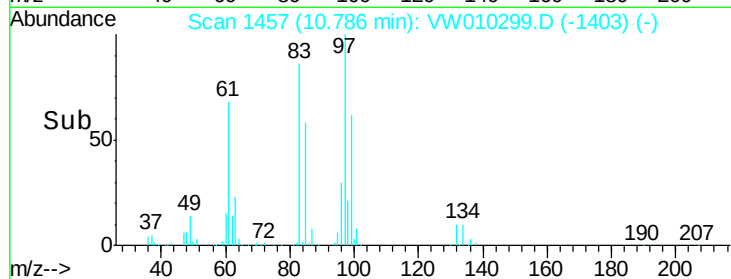
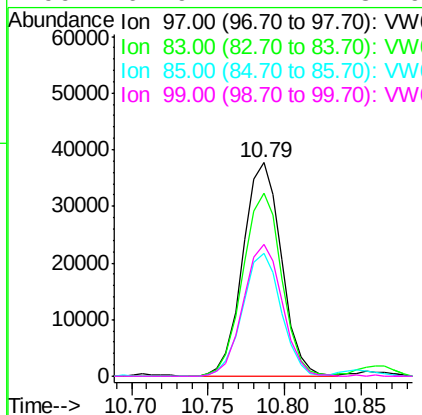
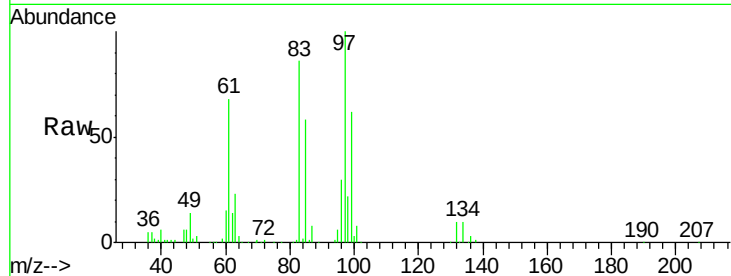


#46
 1,1,2-Trichloroethane
 Concen: 10.491 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW010299.D
 Acq: 07 May 2019 14:59

Instrument :
 MSVOA_W
 ClientSampled :
 A5106

Tot Ion: 97 Resp: 66113

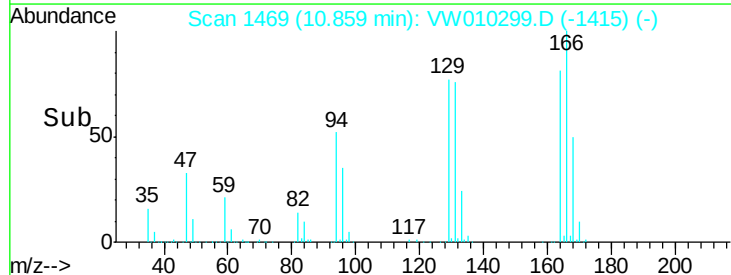
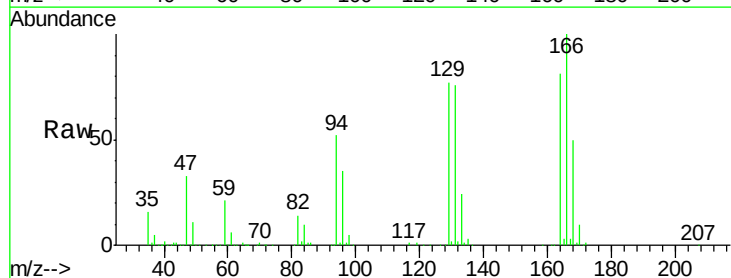
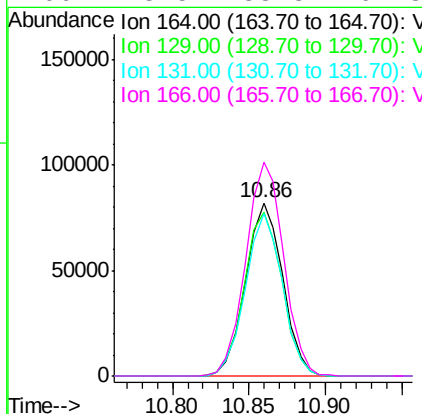
Ion	Ratio	Lower	Upper
97	100		
83	85.6	61.2	113.8
85	57.6	39.3	72.9
99	61.9	44.7	82.9

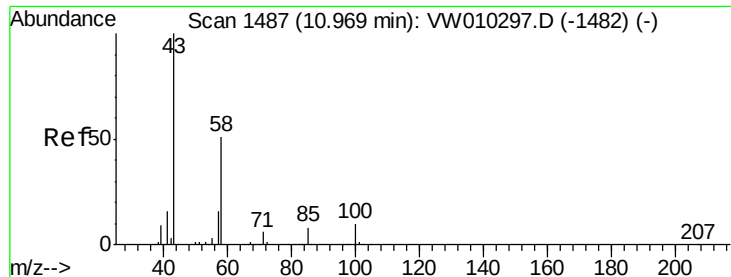


#47
 Tetrachloroethene
 Concen: 21.025 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW010299.D
 Acq: 07 May 2019 14:59

Tgt Ion: 164 Resp: 138877

Ion	Ratio	Lower	Upper
164	100		
129	94.5	70.1	130.3
131	94.0	66.2	123.0
166	123.5	88.8	164.8

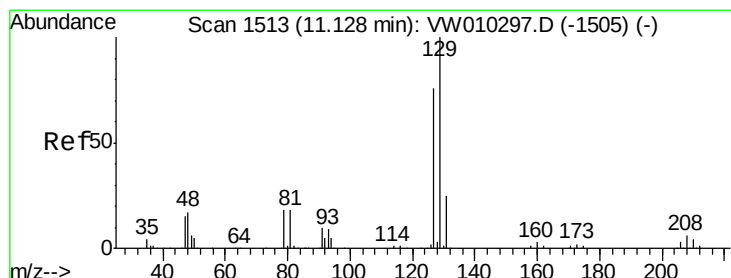
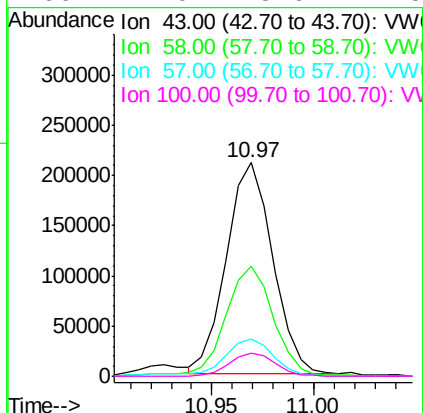
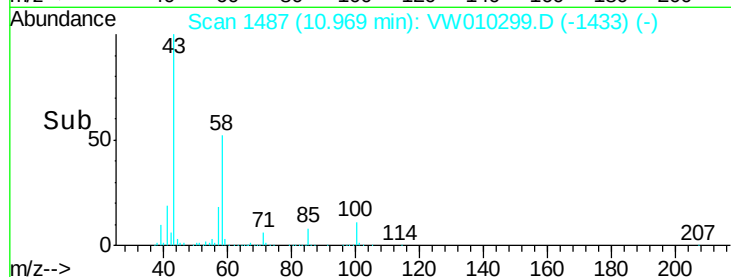
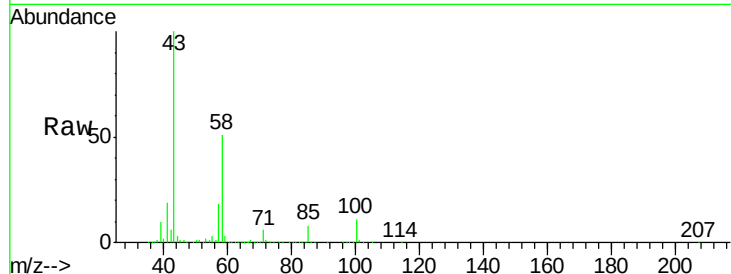




#49
2-Hexanone
Concen: 58.096 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW010299.D
Acq: 07 May 2019 14:59

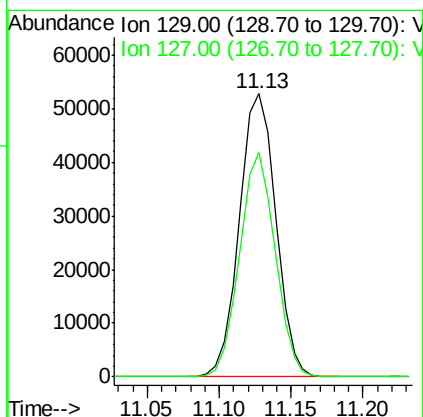
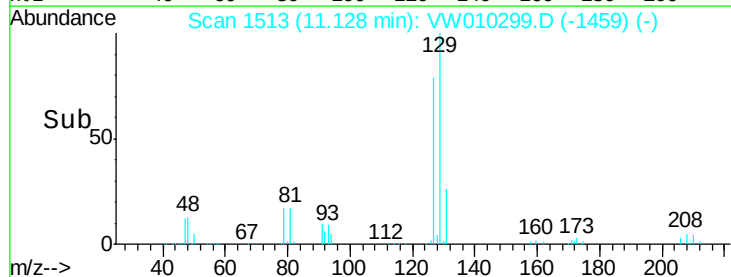
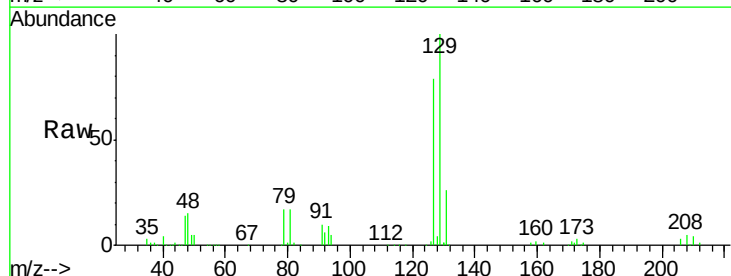
Instrument :
MSVOA_W
ClientSampled :
A5106

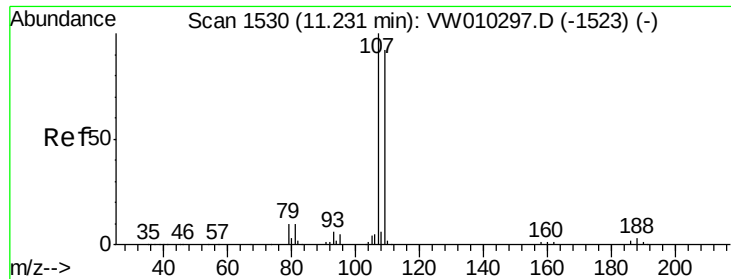
Tot Ion: 43 Resp: 331145
Ion Ratio Lower Upper
43 100
58 53.0 39.2 58.8
57 18.1 14.1 21.1
100 11.0 8.6 12.8



#50
Dibromochloromethane
Concen: 12.811 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW010299.D
Acq: 07 May 2019 14:59

Tgt Ion: 129 Resp: 92863
Ion Ratio Lower Upper
129 100
127 79.3 53.3 99.1

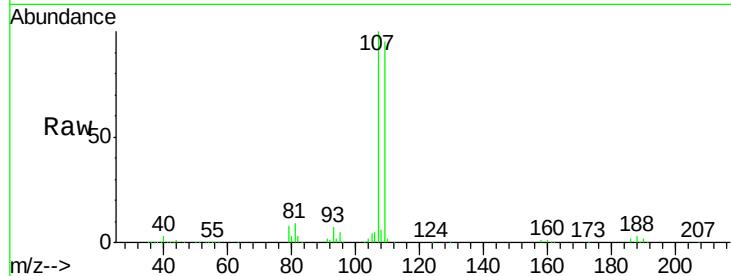




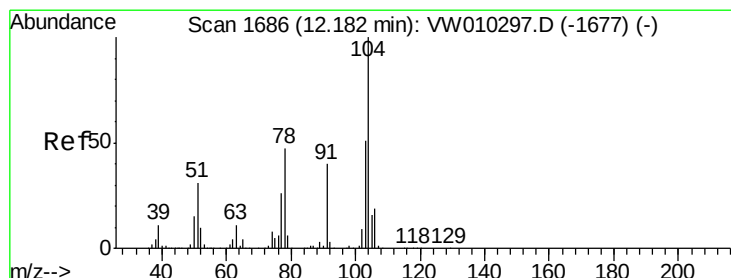
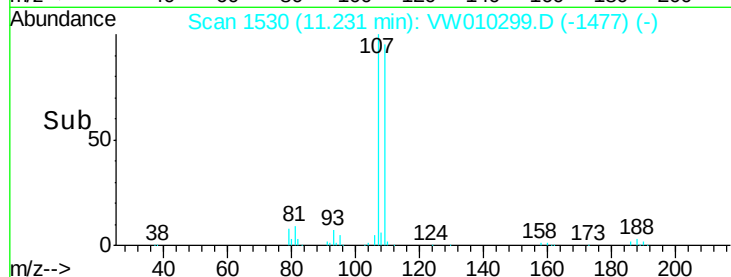
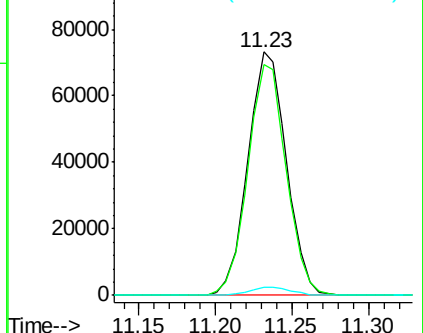
#51
 1,2-Dibromoethane
 Concen: 20.728 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.01 min
 Lab File: VW010299.D
 Acq: 07 May 2019 14:59

Instrument :
 MSVOA_W
 ClientSampleId :
 A5106

Tot Ion:107 Resp: 128661
 Ion Ratio Lower Upper
 107 100
 109 94.9 65.3 121.3
 188 3.3 2.8 4.2

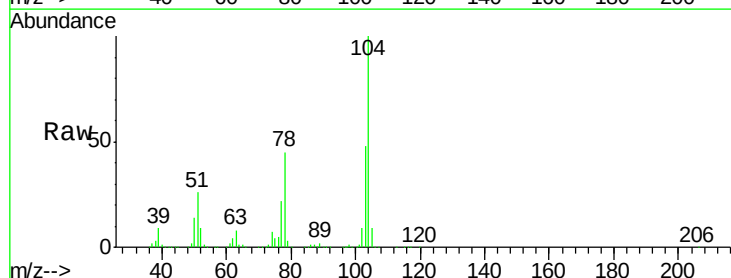


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

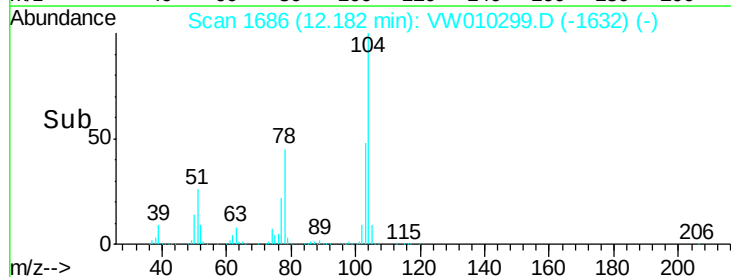
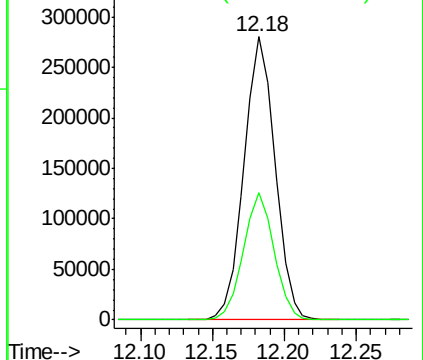


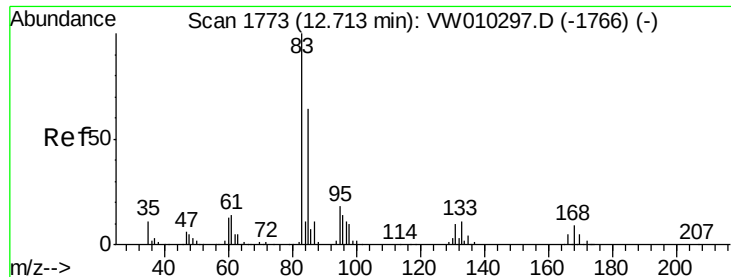
#56
 Styrene
 Concen: 18.565 ug/L
 RT: 12.18 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VW010299.D
 Acq: 07 May 2019 14:59

Tgt Ion:104 Resp: 419312
 Ion Ratio Lower Upper
 104 100
 78 45.0 33.3 61.9



Abundance Ion 104.00 (103.70 to 104.70): V
 Ion 78.00 (77.70 to 78.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 29.634 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampled :

A5106

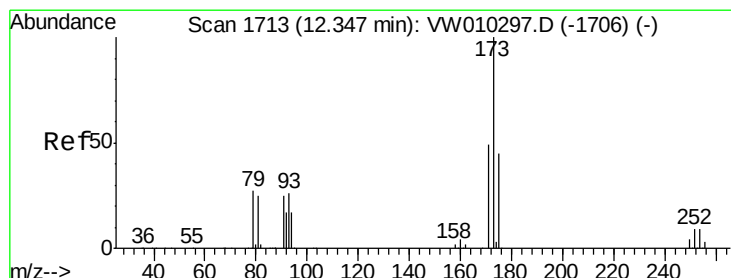
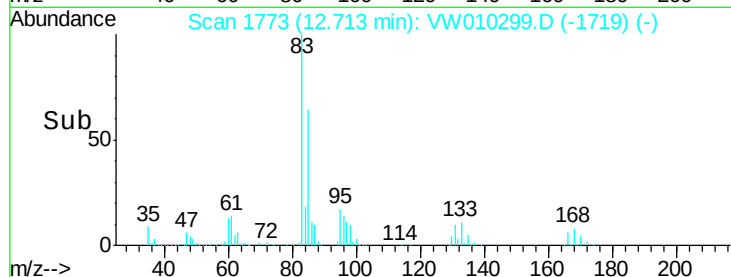
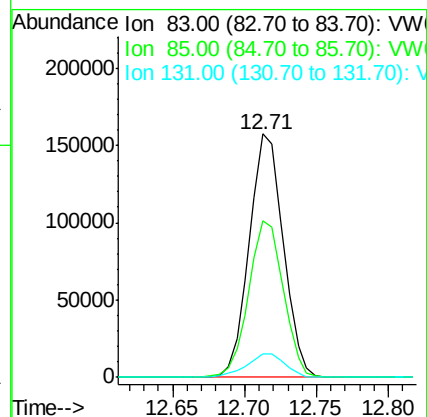
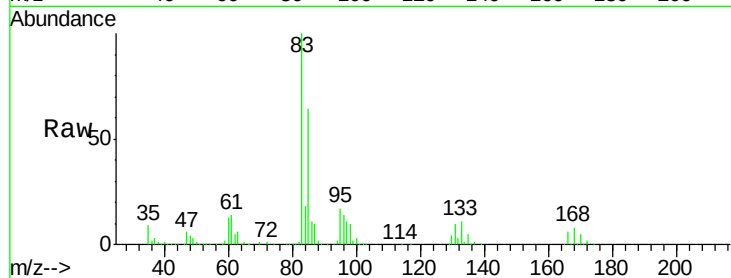
Tot Ion: 83 Resp: 256657

Ion Ratio Lower Upper

83 100

85 64.2 45.6 84.8

131 9.6 8.2 12.4



#62

Bromoform

Concen: 19.900 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.01 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

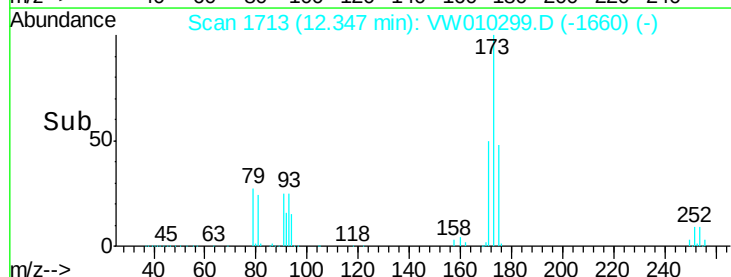
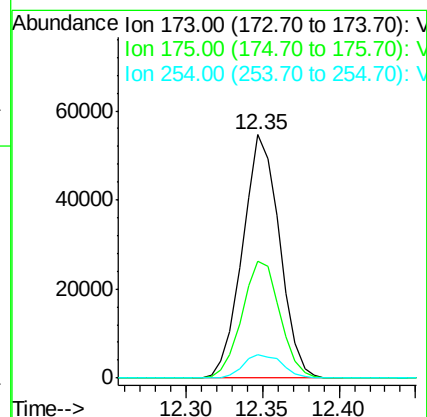
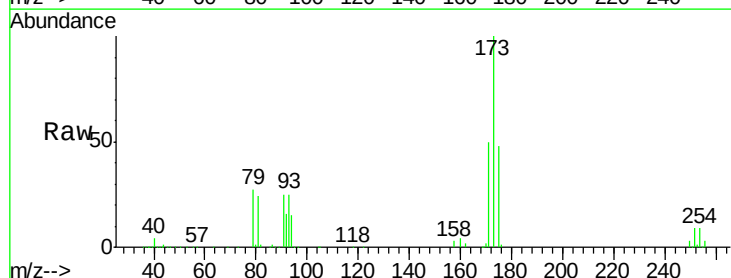
Tgt Ion: 173 Resp: 91933

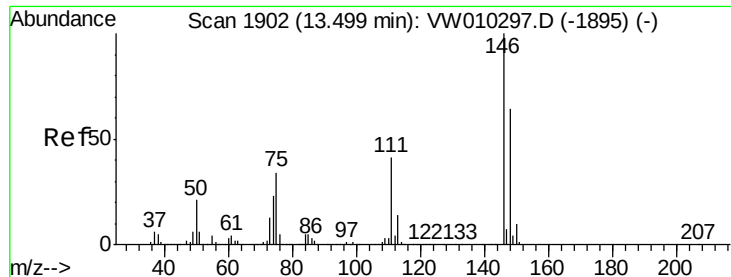
Ion Ratio Lower Upper

173 100

175 49.0 39.4 59.2

254 10.2 7.5 11.3





#63

1,3-Dichlorobenzene

Concen: 26.393 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

Instrument :

MSVOA_W

ClientSampleId :

A5106

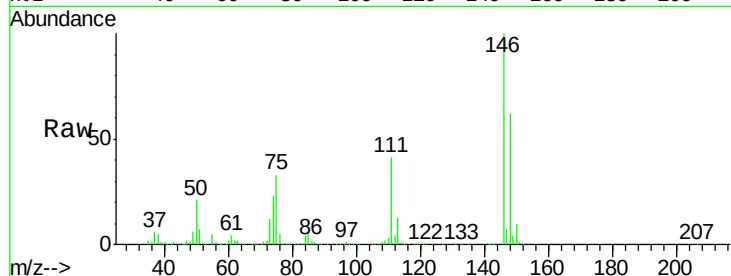
Tot Ion:146 Resp: 422129

Ion Ratio Lower Upper

146 100

111 40.5 30.0 55.8

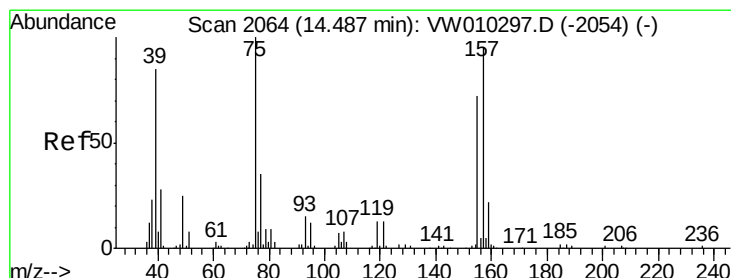
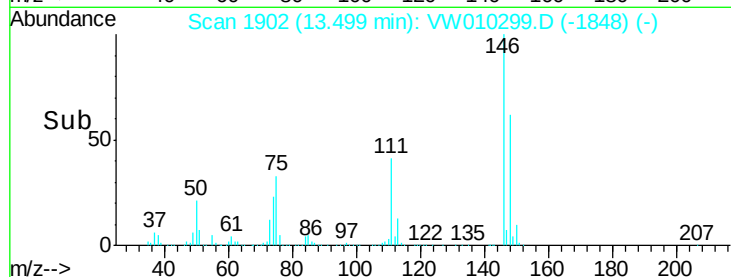
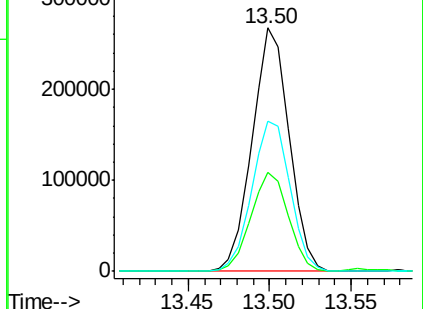
148 61.6 43.9 81.5



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: 40.674 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW010299.D

Acq: 07 May 2019 14:59

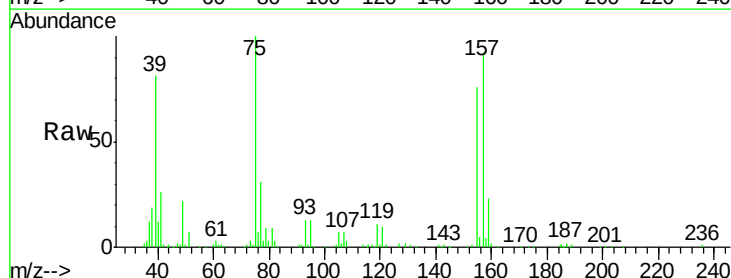
Tgt Ion: 75 Resp: 74586

Ion Ratio Lower Upper

75 100

157 92.4 68.6 103.0

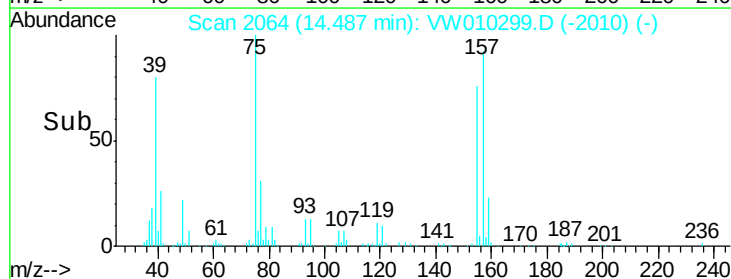
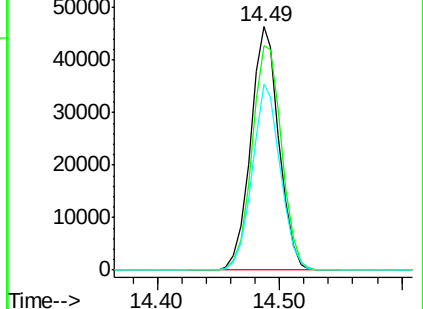
155 76.2 57.3 85.9

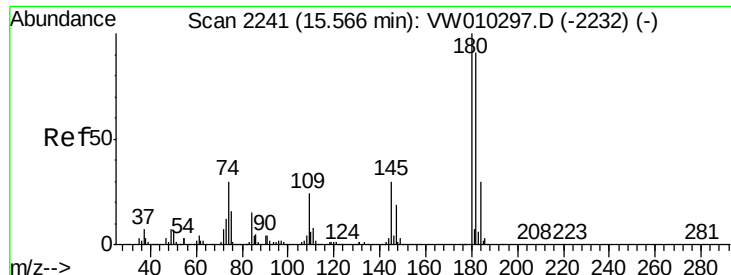


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 9.793 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.00 min
 Lab File: VW010299.D
 Acq: 07 May 2019 14:59

Instrument :
 MSVOA_W
 ClientSampleId :
 A5106

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	75.8	113.6
145	33.5	26.7	40.1

