

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092718\
 Data File : VV007899.D
 Acq On : 27 Sep 2018 10:59
 Operator : SY/MD
 Sample : J4914-06
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 28 00:43:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 28 00:42:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	98489	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	92043	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	47782	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25140	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.59	69	22164	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.20%
11) 1,1-Dichloroethene-d2	2.14	63	55482	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.00%
20) 2-Butanone-d5	3.98	46	72810	45.85	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	91.70%
24) Chloroform-d	4.41	84	58887	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
26) 1,2-Dichloroethane-d4	5.09	65	30771	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.00%
32) Benzene-d6	5.10	84	107917	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.12	67	33388	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.36	98	105521	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.67	79	12141	4.53	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.60%
46) 2-Hexanone-d5	8.14	63	53478	45.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.34%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	25747	4.79	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	44744	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	54599	6.609	ug/L 99
3) Chloromethane	1.32	50	1029	0.140	ug/L # 41
5) Vinyl chloride	1.32	62	103548	13.160	ug/L 98
8) Chloroethane	1.32	64	32181	6.782	ug/L # 45
12) 1,1-Dichloroethene	2.14	96	29125	4.474	ug/L 95
16) Methylene chloride	2.54	84	1467	0.203	ug/L 89
18) trans-1,2-Dichloroethene	2.79	96	15651	2.181	ug/L 100
19) 1,1-Dichloroethane	3.23	63	18151	1.482	ug/L 99
25) Chloroform	4.43	83	82198	6.207	ug/L 99
29) 1,1,1-Trichloroethane	4.66	97	24436	2.208	ug/L 98
31) Carbon tetrachloride	4.66	117	3271	0.335	ug/L 94
34) Trichloroethene	5.96	95	24270	3.216	ug/L 98
35) Methylcyclohexane	6.12	83	8204	0.725	ug/L # 19
37) 1,2-Dichloropropane	6.23	63	55291	8.212	ug/L 99
38) Bromodichloromethane	6.56	83	24937	3.097	ug/L 99
39) cis-1,3-Dichloropropene	7.03	75	982	0.109	ug/L # 63
47) Tetrachloroethene	8.02	164	29696	4.246	ug/L 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092718\
 Data File : VV007899.D
 Acq On : 27 Sep 2018 10:59
 Operator : SY/MD
 Sample : J4914-06
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 28 00:43:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 28 00:42:21 2018
 Response via : Initial Calibration

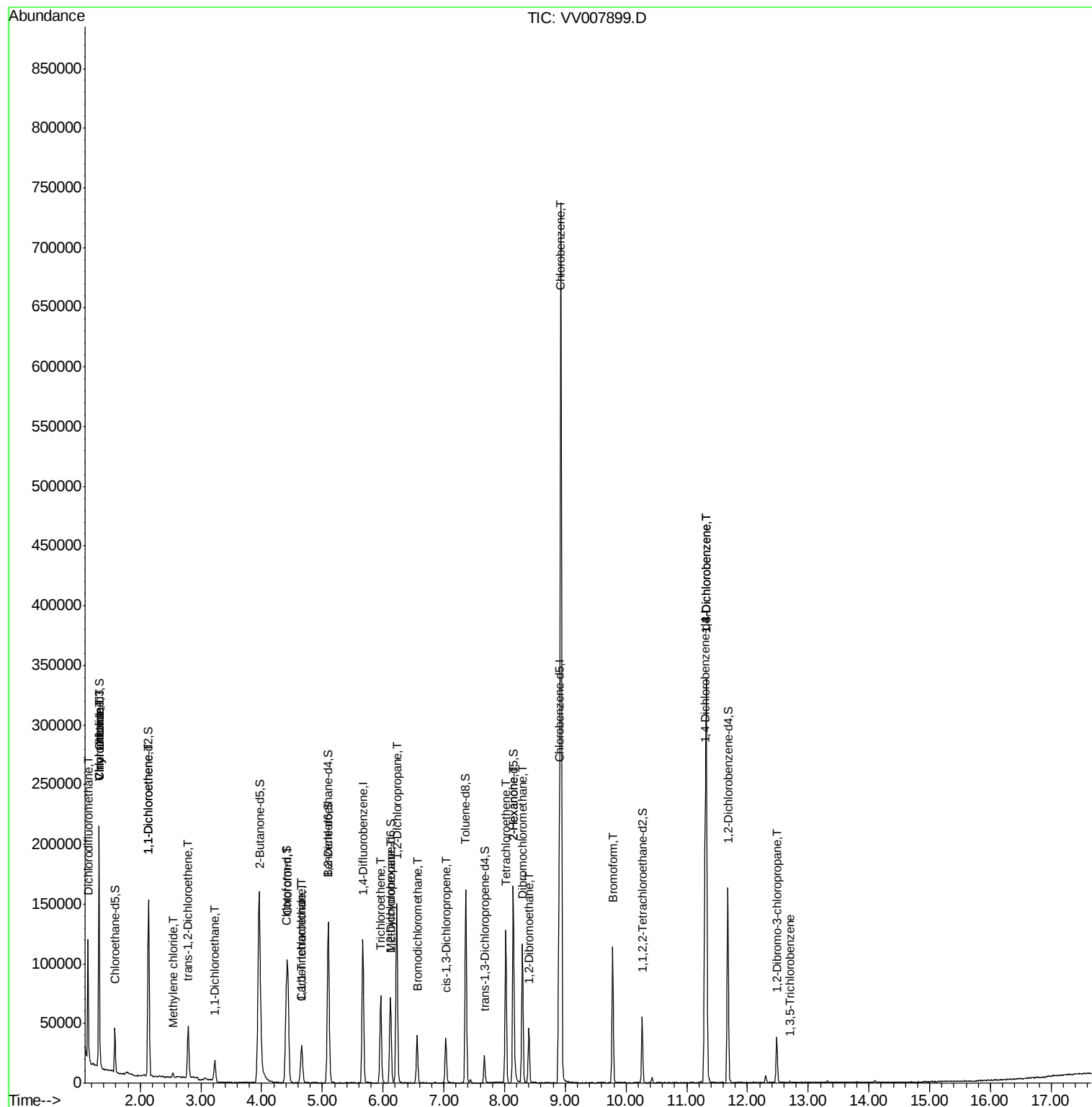
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.14	43	7534	2.563	ug/L #	78
49) Dibromochloromethane	8.29	129	57230	10.317	ug/L	98
50) 1,2-Dibromoethane	8.40	107	29032	6.536	ug/L	100
51) Chlorobenzene	8.93	112	380710	19.203	ug/L	99
61) Bromoform	9.78	173	50898	17.736	ug/L	96
62) 1,3-Dichlorobenzene	11.32	146	135522	8.591	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	135522	8.263	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	8849	11.682	ug/L	90
67) 1,3,5-Trichlorobenzene	12.70	180	609	0.045	ug/L #	86

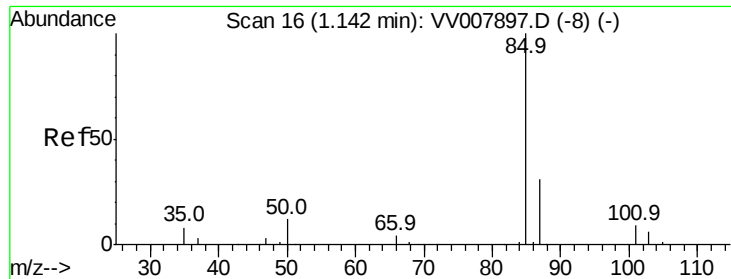
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092718\
Data File : VV007899.D
Acq On : 27 Sep 2018 10:59
Operator : SY/MD
Sample : J4914-06
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Sep 28 00:43:53 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 28 00:42:21 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 6.609 ug/L

RT: 1.14 min Scan# 16

Delta R.T. -0.00 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

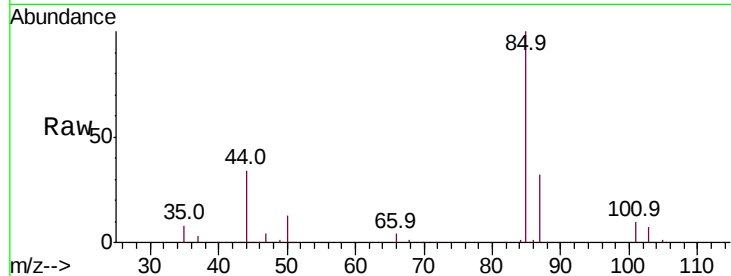
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 54599

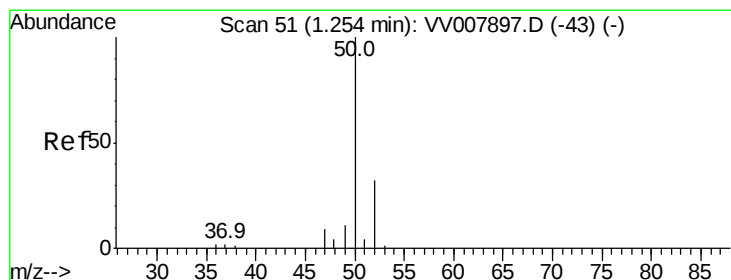
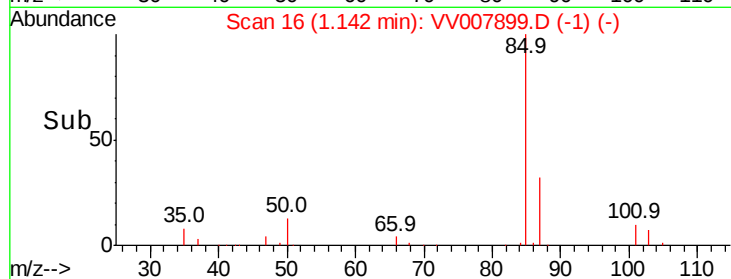
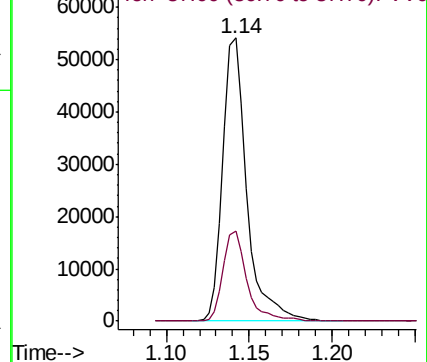
Ion Ratio Lower Upper

85 100

87 31.9 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VV0
Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.140 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.07 min

Lab File: VV007899.D

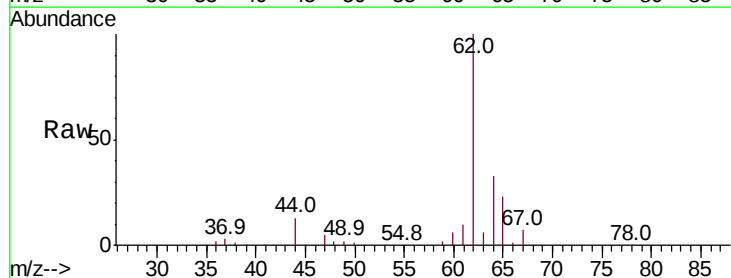
Acq: 27 Sep 2018 10:59

Tgt Ion: 50 Resp: 1029

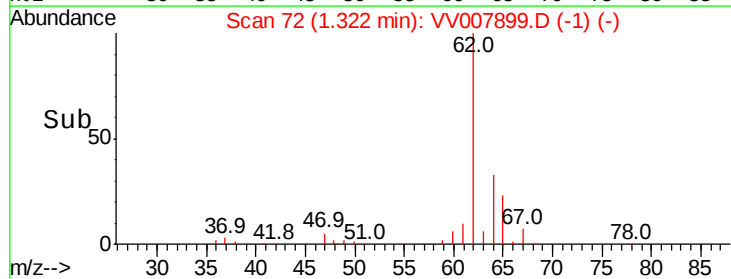
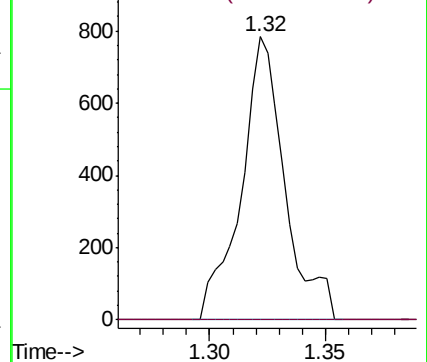
Ion Ratio Lower Upper

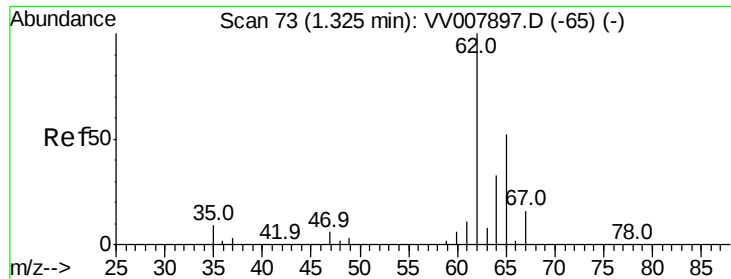
50 100

52 0.0 23.4 43.4#



Abundance Ion 50.05 (49.75 to 50.75): VV0
Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 13.160 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

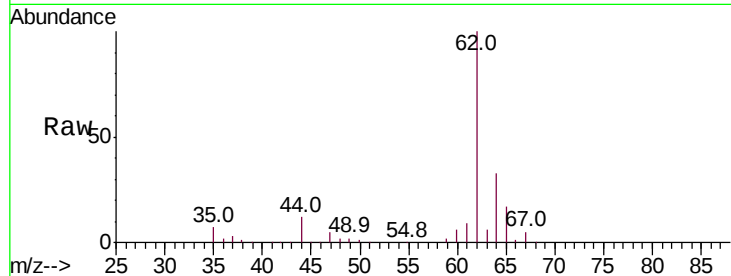
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 103548

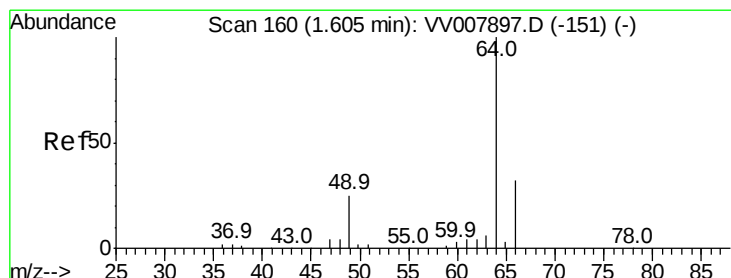
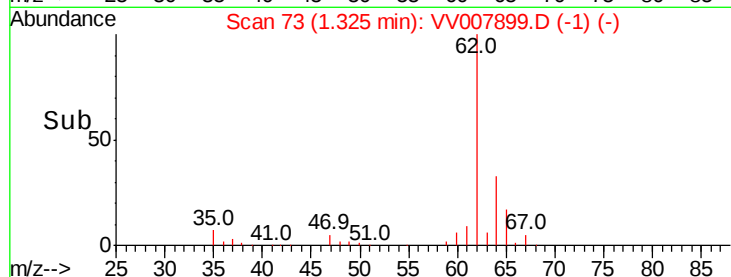
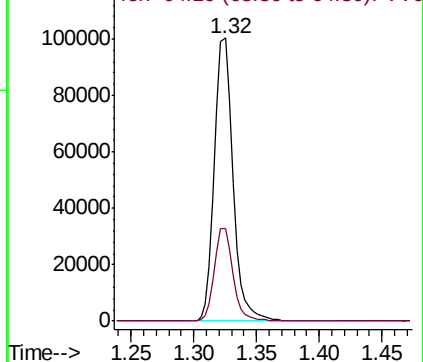
Ion Ratio Lower Upper

62 100

64 32.9 24.0 44.6



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 6.782 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.28 min

Lab File: VV007899.D

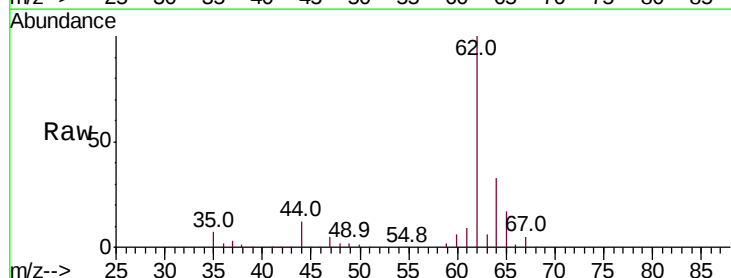
Acq: 27 Sep 2018 10:59

Tgt Ion: 64 Resp: 32181

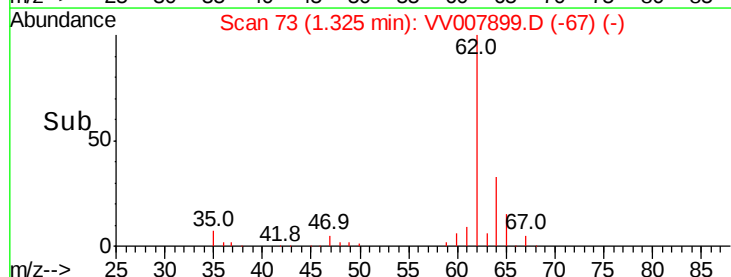
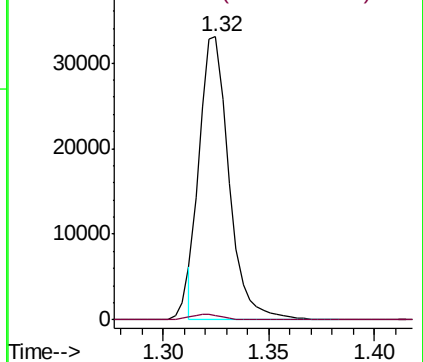
Ion Ratio Lower Upper

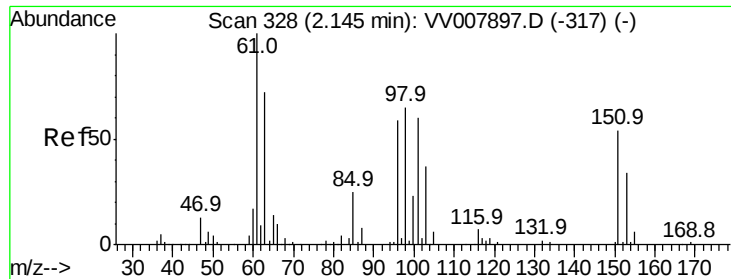
64 100

66 1.7 23.1 42.9#



Abundance Ion 64.10 (63.80 to 64.80): VV0
Ion 66.05 (65.75 to 66.75): VV0

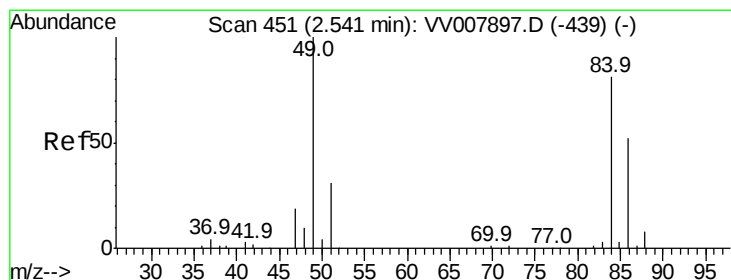
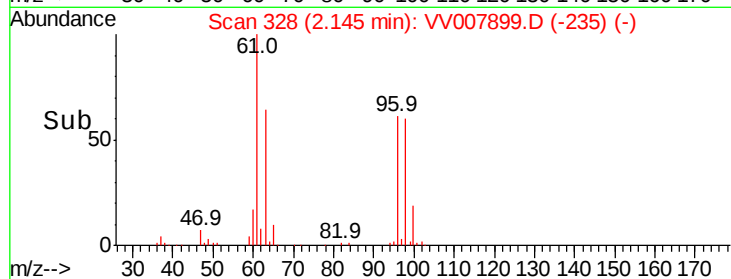
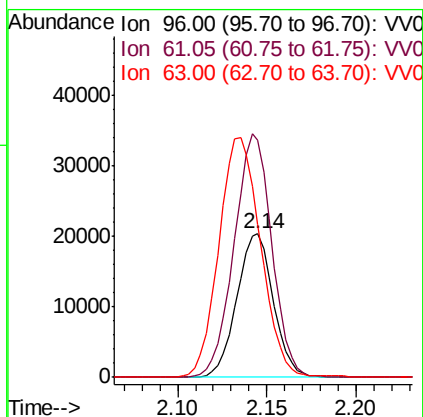
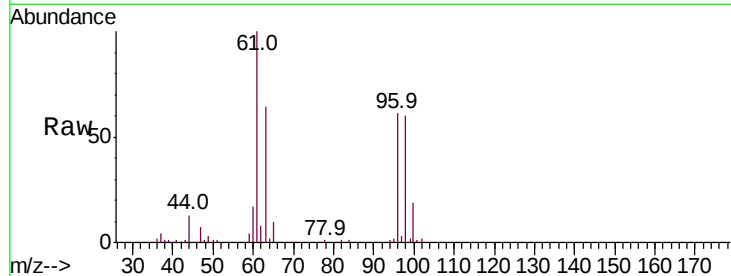




#12
 1,1-Dichloroethene
 Concen: 4.474 ug/L
 RT: 2.14 min Scan# 328
 Delta R.T. -0.00 min
 Lab File: VV007899.D
 Acq: 27 Sep 2018 10:59

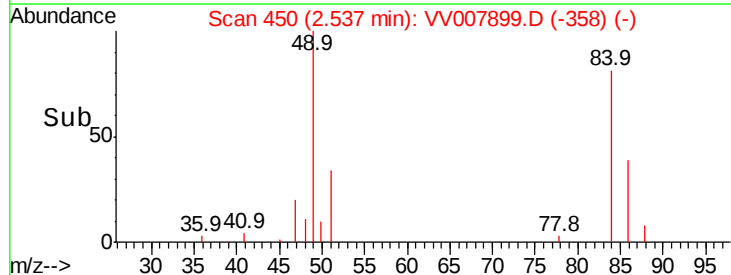
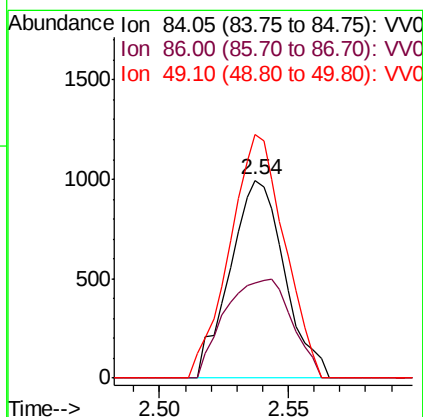
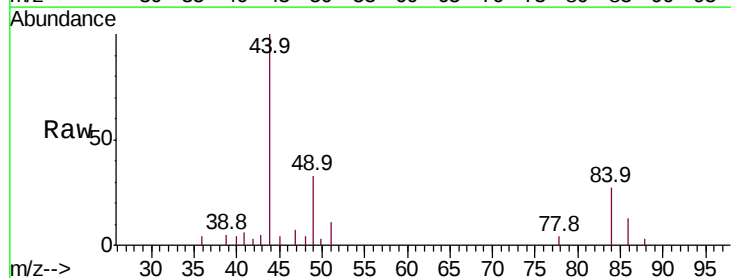
Instrument :
 MSVOA_V
 ClientSampleId :

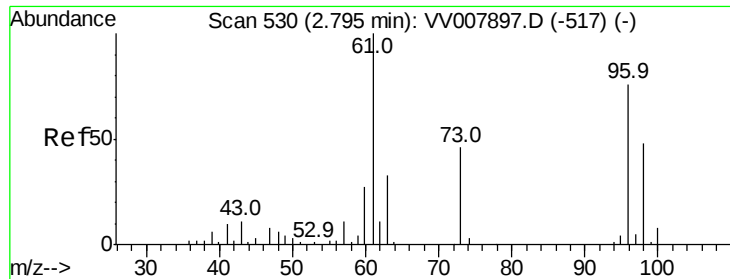
Tot Ion: 96 Resp: 29125
 Ion Ratio Lower Upper
 96 100
 61 165.0 114.1 211.9
 63 106.1 81.5 151.3



#16
 Methylene chloride
 Concen: 0.203 ug/L
 RT: 2.54 min Scan# 450
 Delta R.T. -0.00 min
 Lab File: VV007899.D
 Acq: 27 Sep 2018 10:59

Tgt Ion: 84 Resp: 1467
 Ion Ratio Lower Upper
 84 100
 86 47.9 47.3 87.8
 49 123.1 90.0 167.2

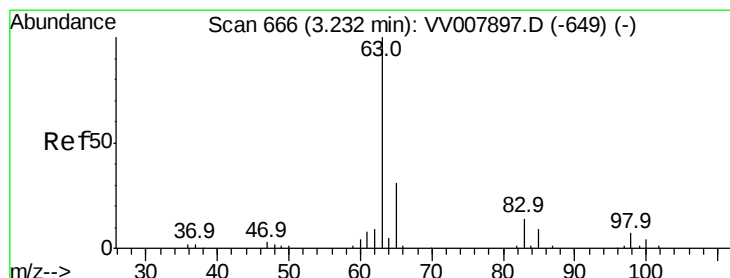
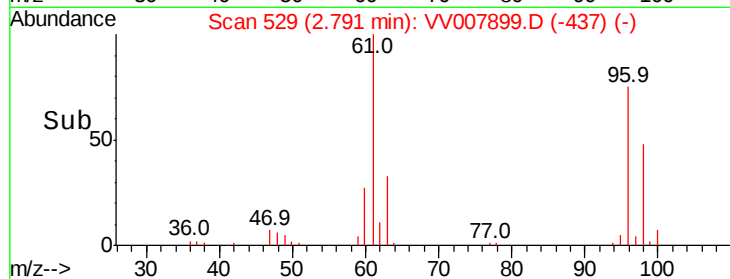
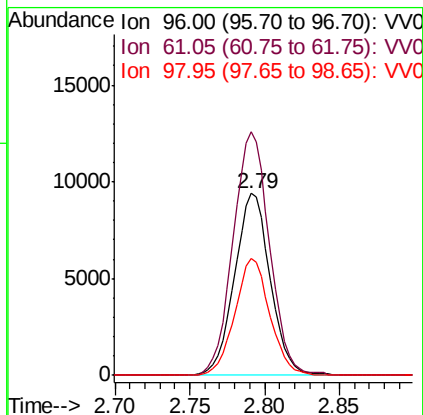
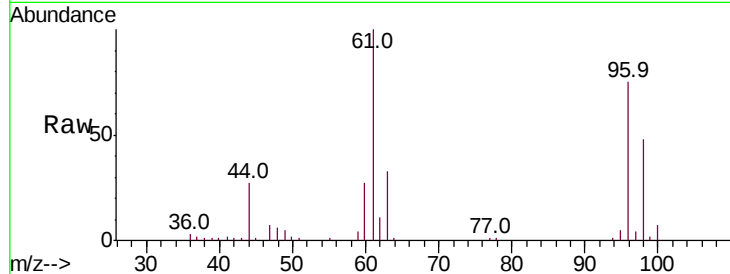




#18
 trans-1,2-Dichloroethene
 Concen: 2.181 ug/L
 RT: 2.79 min Scan# 529
 Delta R.T. -0.00 min
 Lab File: VV007899.D
 Acq: 27 Sep 2018 10:59

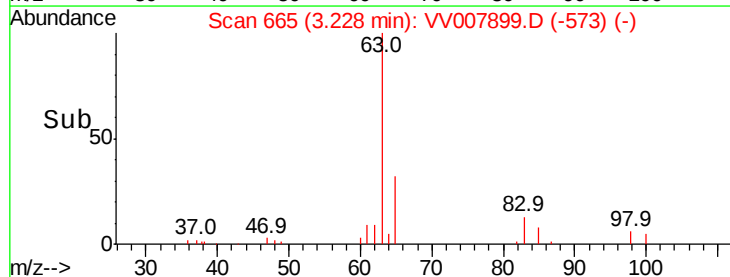
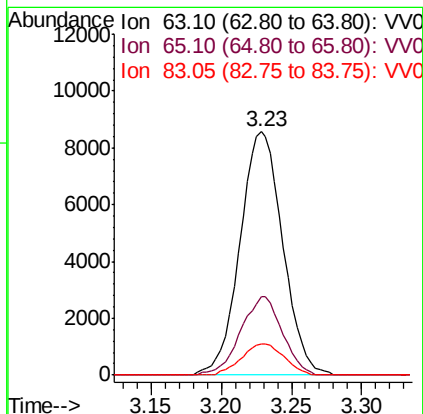
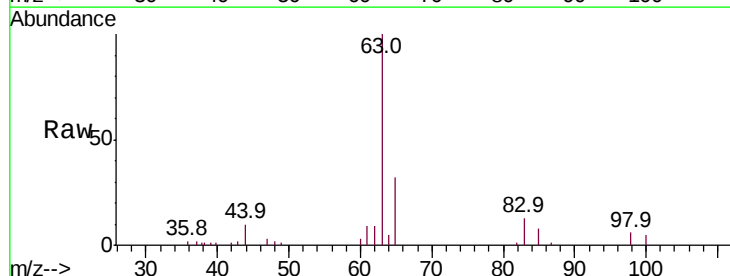
Instrument :
 MSVOA_V
 ClientSampleId :

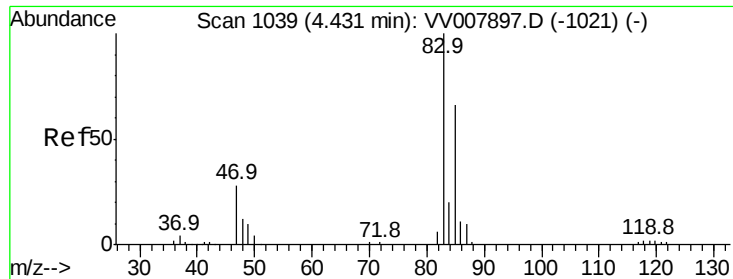
Tot Ion: 96 Resp: 15651
 Ion Ratio Lower Upper
 96 100
 61 133.8 94.2 175.0
 98 64.2 44.9 83.5



#19
 1,1-Dichloroethane
 Concen: 1.482 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV007899.D
 Acq: 27 Sep 2018 10:59

Tgt Ion: 63 Resp: 18151
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.3 41.5
 83 12.8 9.8 18.2

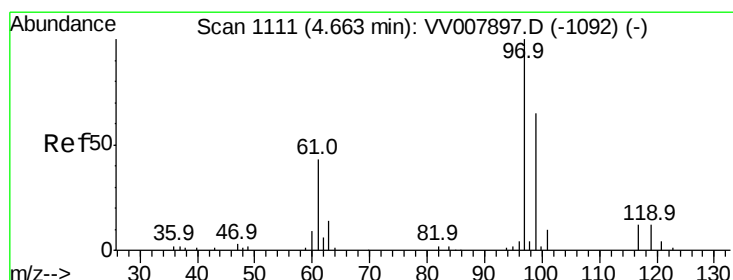
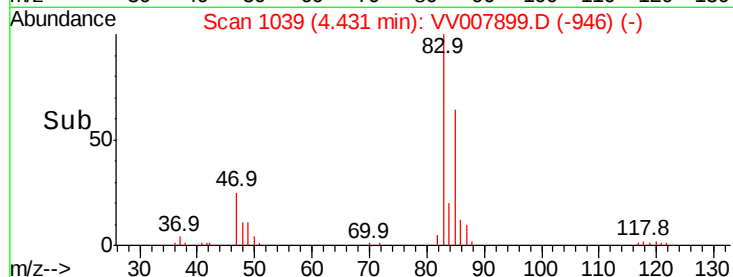
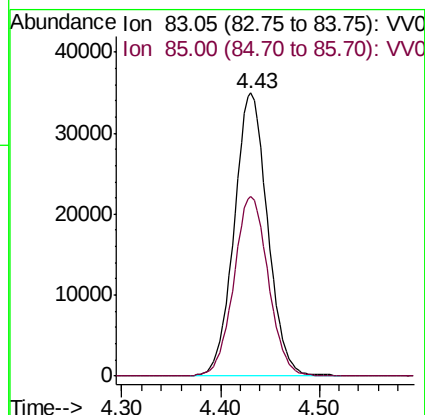
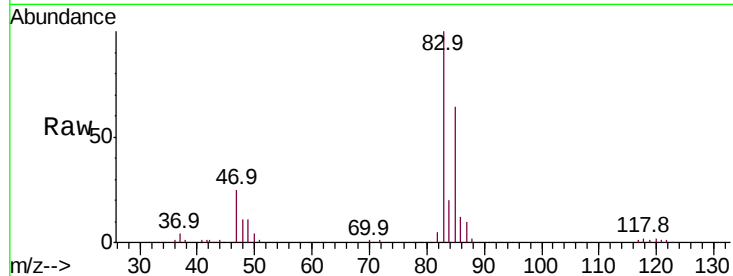




#25
Chloroform
Concen: 6.207 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. -0.00 min
Lab File: VV007899.D
Acq: 27 Sep 2018 10:59

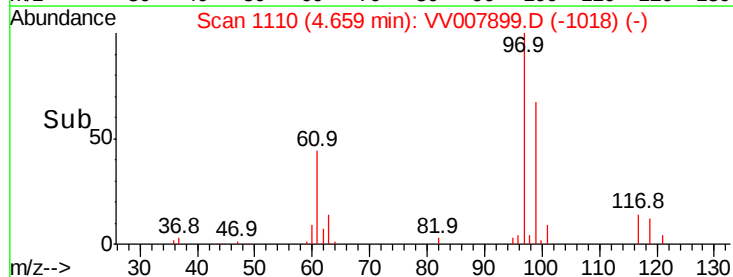
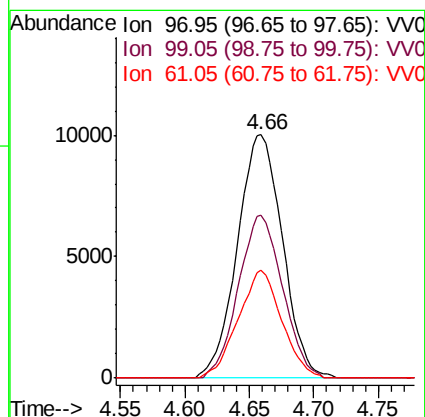
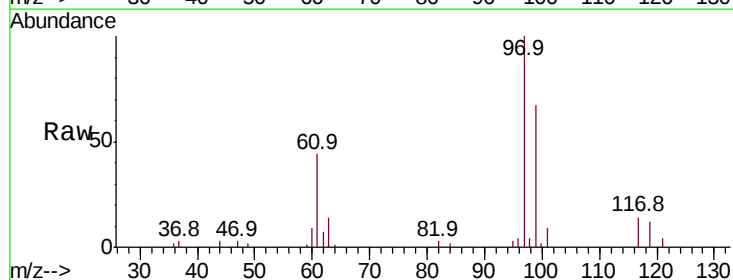
Instrument :
MSVOA_V
ClientSampleId :

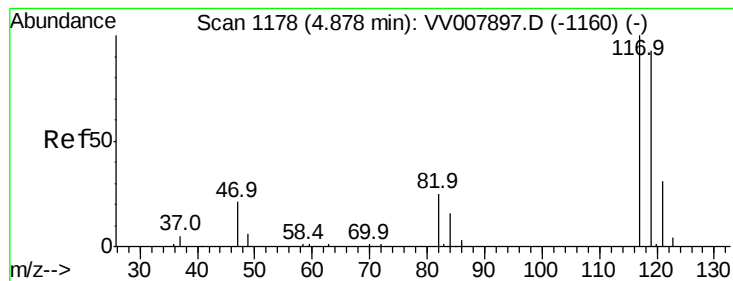
Tot Ion: 83 Resp: 82198
Ion Ratio Lower Upper
83 100
85 63.5 44.8 83.2



#29
1,1,1-Trichloroethane
Concen: 2.208 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VV007899.D
Acq: 27 Sep 2018 10:59

Tgt Ion: 97 Resp: 24436
Ion Ratio Lower Upper
97 100
99 65.5 51.2 76.8
61 42.6 34.6 52.0





#31

Carbon tetrachloride

Concen: 0.335 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.22 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

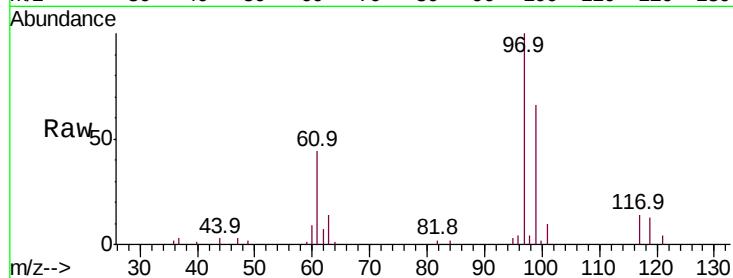
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:117 Resp: 3271

Ion Ratio Lower Upper

117 100

119 91.5 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.66

1500

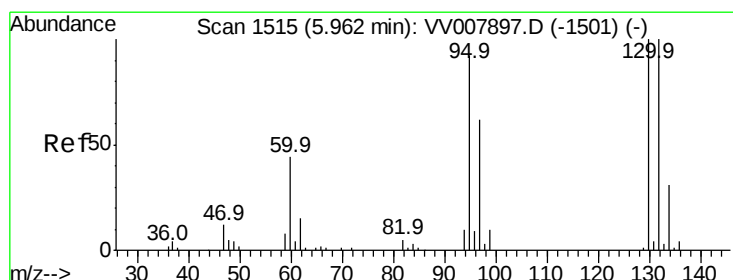
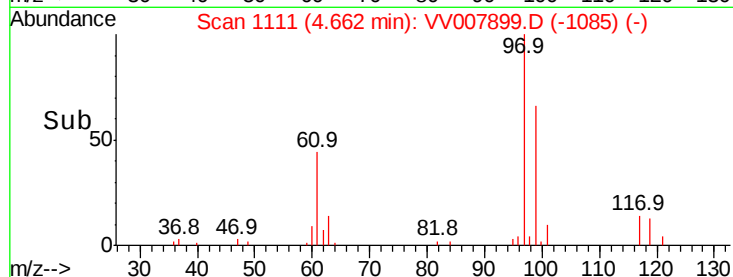
1000

500

0

4.60 4.65 4.70

Time-->



#34

Trichloroethene

Concen: 3.216 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

Tgt Ion: 95 Resp: 24270

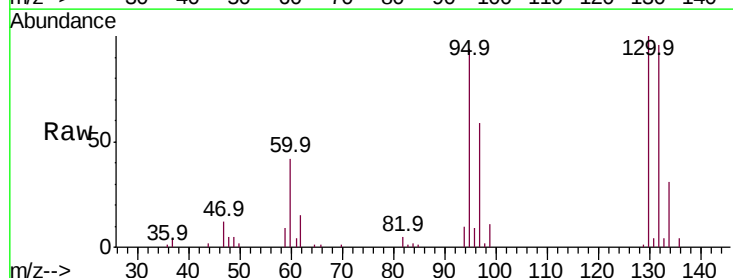
Ion Ratio Lower Upper

95 100

97 62.0 43.6 81.0

132 102.0 69.9 129.9

130 105.9 71.7 133.3



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

20000

15000

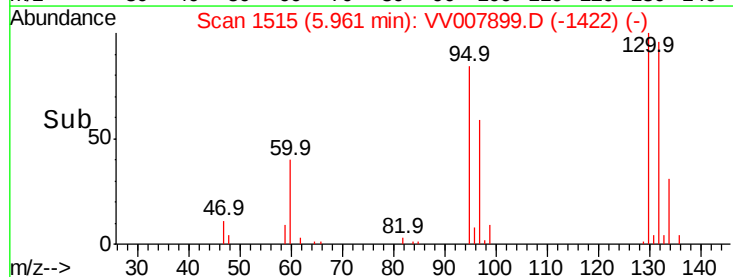
10000

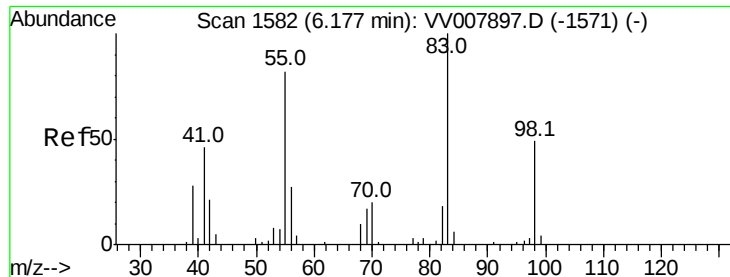
5000

0

5.90 5.95 6.00 6.05

Time-->

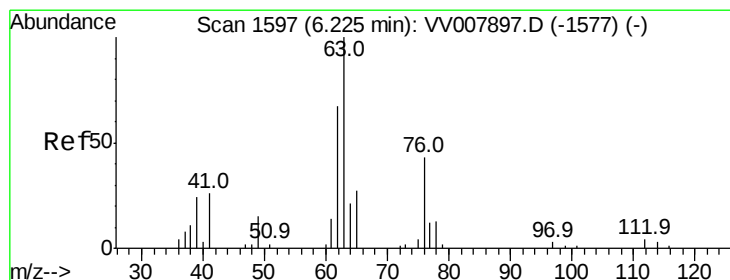
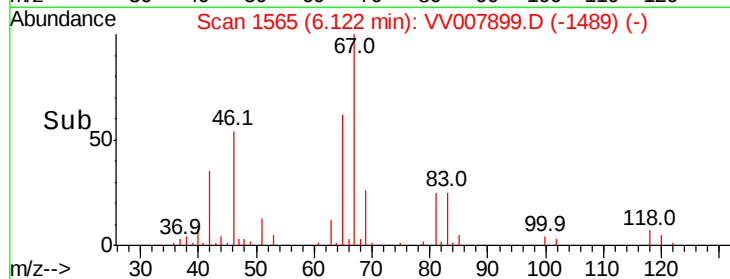
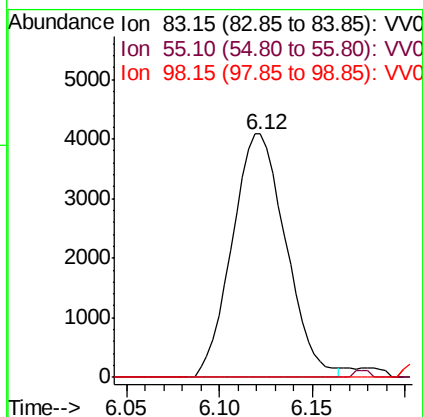
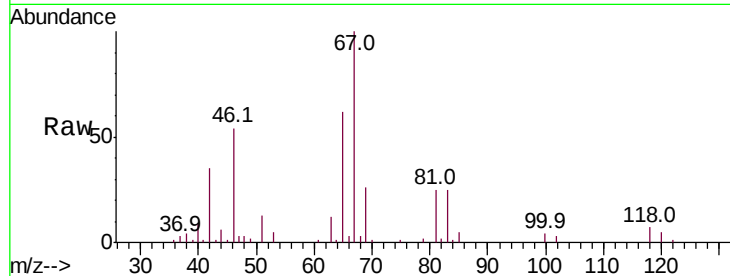




#35
Methvlcvclohexane
Concen: 0.725 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.05 min
Lab File: VV007899.D
Acq: 27 Sep 2018 10:59

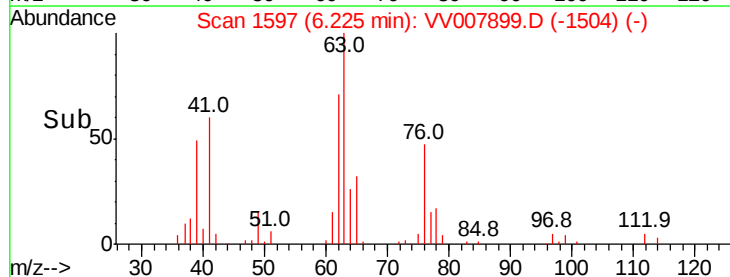
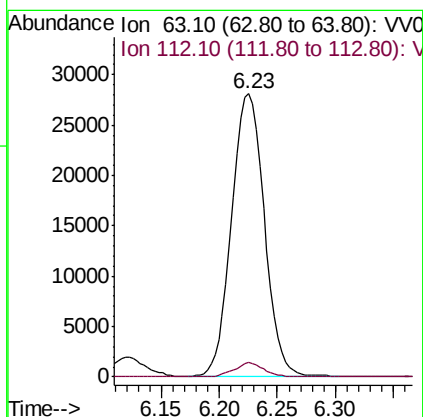
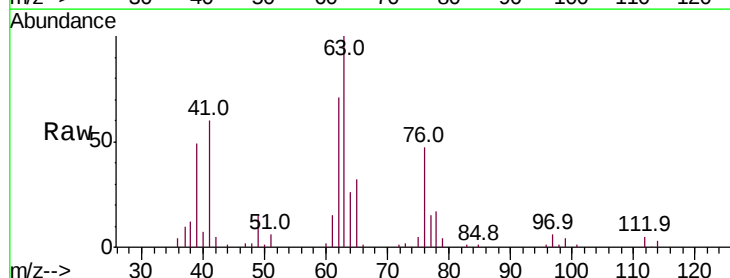
Instrument :
MSVOA_V
ClientSampleId :

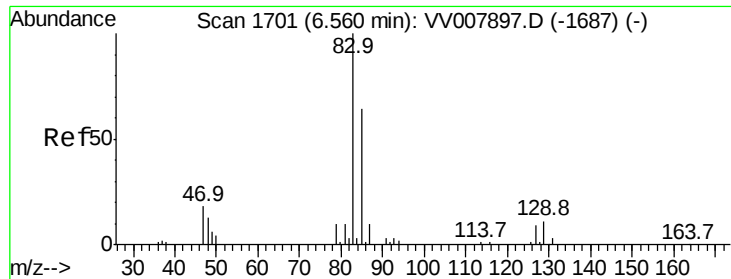
Tot Ion: 83 Resp: 8204
Ion Ratio Lower Upper
83 100
55 0.8 62.2 93.2#
98 0.9 38.0 57.0#



#37
1,2-Dichloropropane
Concen: 8.212 ug/L
RT: 6.23 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VV007899.D
Acq: 27 Sep 2018 10:59

Tgt Ion: 63 Resp: 55291
Ion Ratio Lower Upper
63 100
112 4.4 3.4 5.0





#38

Bromodichloromethane

Concen: 3.097 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

Instrument :
MSVOA_V
ClientSampleId :

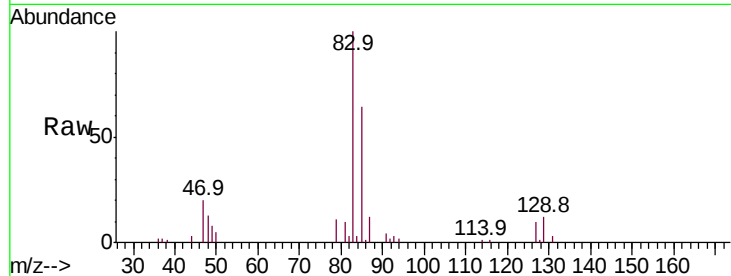
Tot Ion: 83 Resp: 24937

Ion Ratio Lower Upper

83 100

85 64.3 44.7 82.9

127 10.0 7.8 11.6

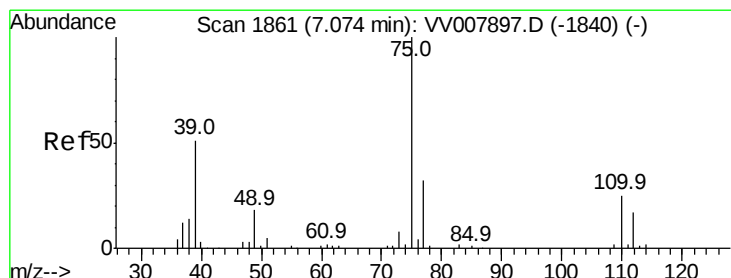
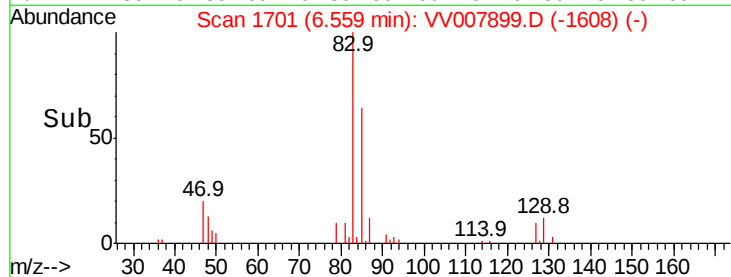


Abundance Ion 82.95 (82.65 to 83.65): VV007899.D (-1687) (-)

Ion 85.00 (84.70 to 85.70): VV007899.D (-1687) (-)

Ion 126.90 (126.60 to 127.60): VV007899.D (-1687) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.109 ug/L

RT: 7.03 min Scan# 1848

Delta R.T. -0.04 min

Lab File: VV007899.D

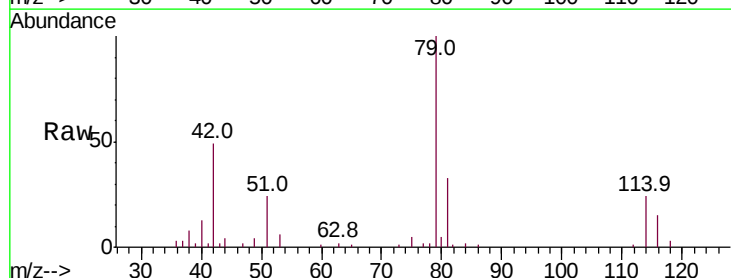
Acq: 27 Sep 2018 10:59

Tgt Ion: 75 Resp: 982

Ion Ratio Lower Upper

75 100

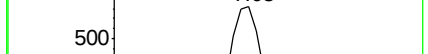
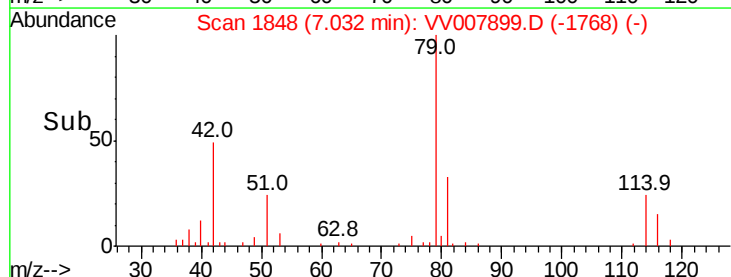
77 53.5 22.9 42.5#

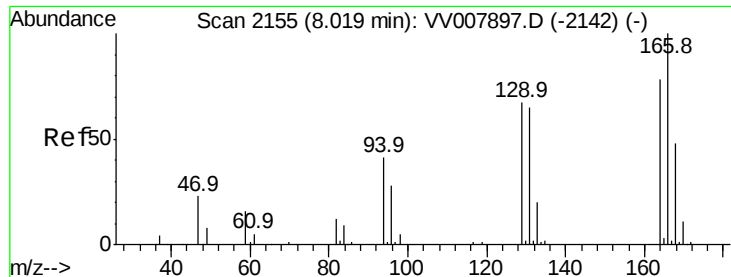


Abundance Ion 75.05 (74.75 to 75.75): VV007899.D (-1768) (-)

Ion 77.05 (76.75 to 77.75): VV007899.D (-1768) (-)

Time-->





#47

Tetrachloroethene

Concen: 4.246 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 29696

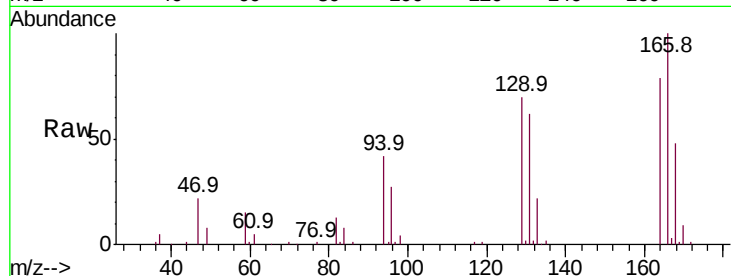
Ion Ratio Lower Upper

164 100

129 87.6 59.2 110.0

131 78.1 57.1 106.1

166 126.0 88.6 164.6

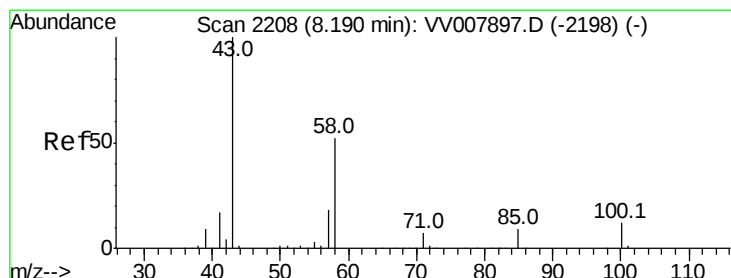
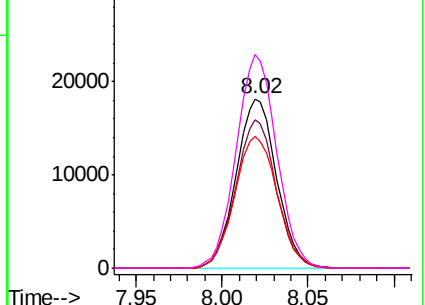
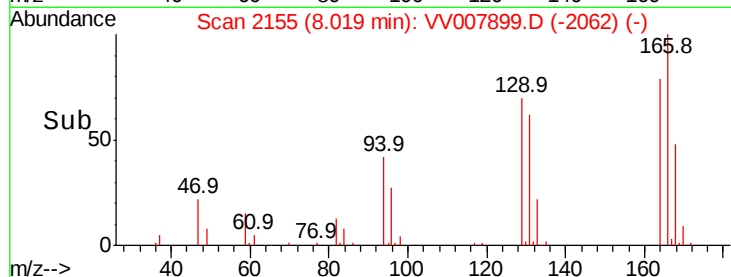


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 2.563 ug/L

RT: 8.14 min Scan# 2193

Delta R.T. -0.05 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

Tgt Ion: 43 Resp: 7534

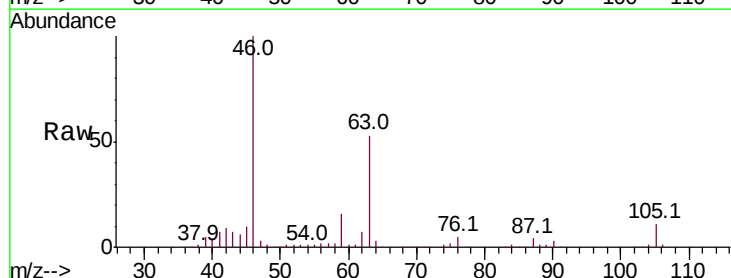
Ion Ratio Lower Upper

43 100

58 39.4 41.9 62.9#

57 29.3 14.3 21.5#

100 0.0 9.2 13.8#

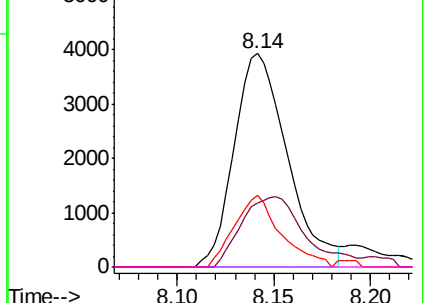
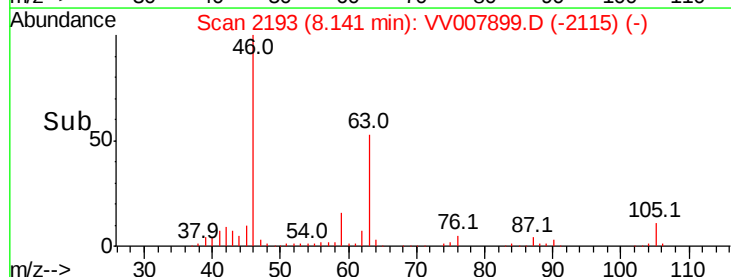


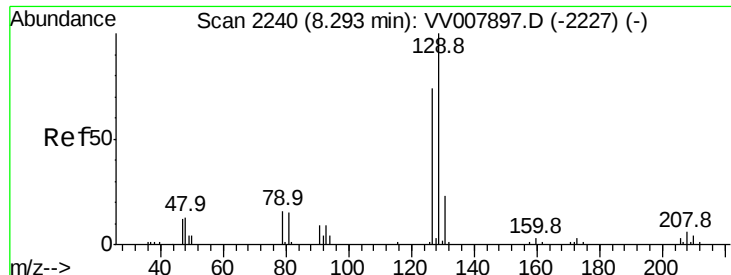
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

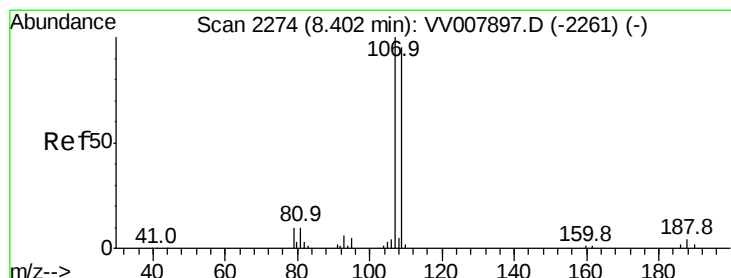
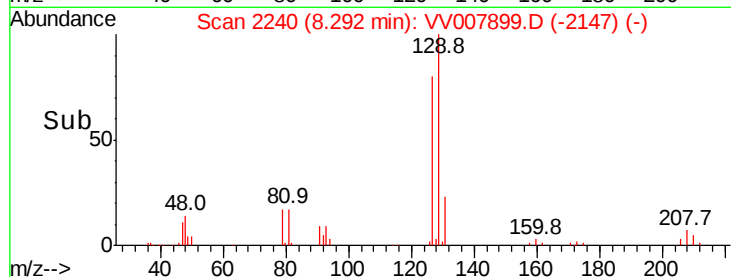
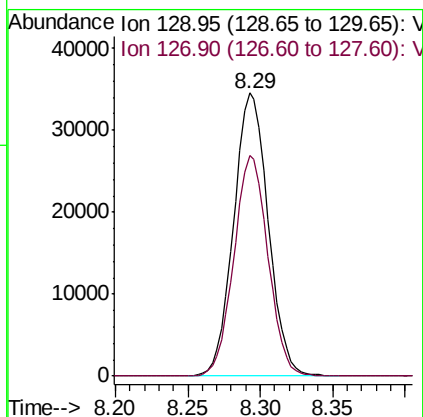
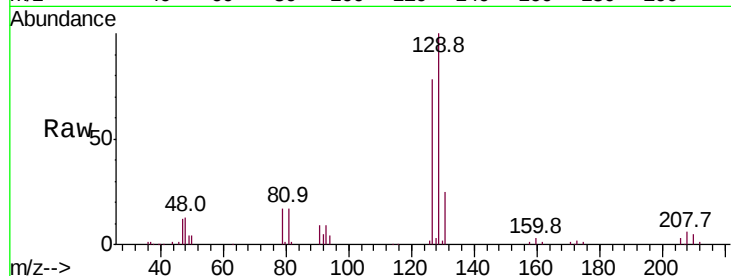




#49
Dibromochloromethane
Concen: 10.317 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VV007899.D
Acq: 27 Sep 2018 10:59

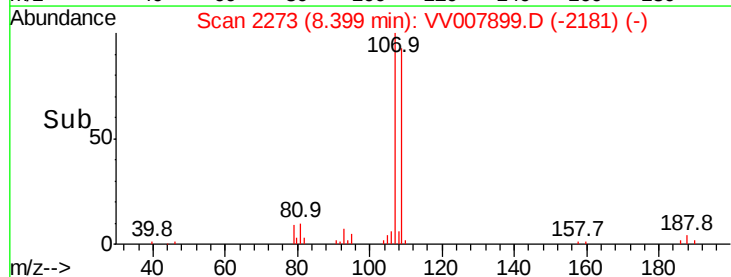
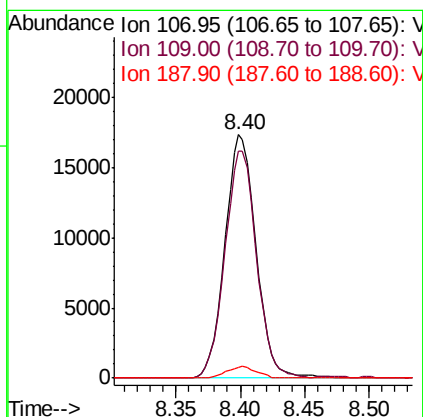
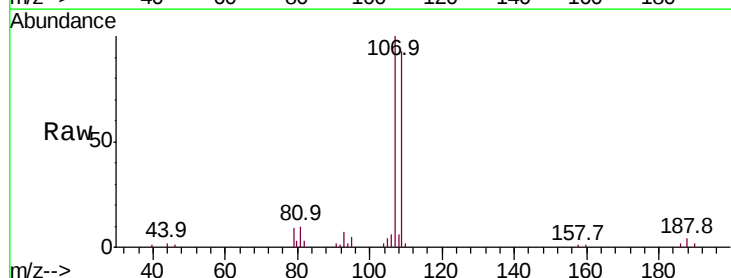
Instrument :
MSVOA_V
ClientSampleId :

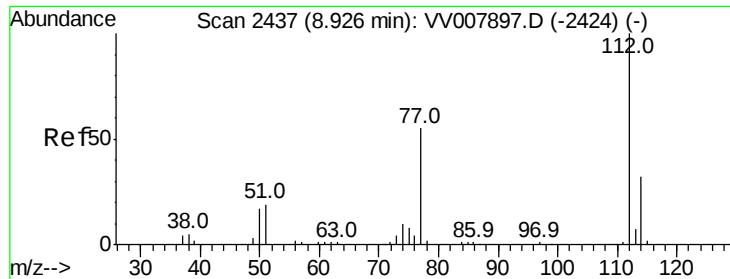
Tot Ion:129 Resp: 57230
Ion Ratio Lower Upper
129 100
127 77.9 53.1 98.5



#50
1,2-Dibromoethane
Concen: 6.536 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VV007899.D
Acq: 27 Sep 2018 10:59

Tgt Ion:107 Resp: 29032
Ion Ratio Lower Upper
107 100
109 93.0 64.9 120.5
188 4.4 4.0 6.0

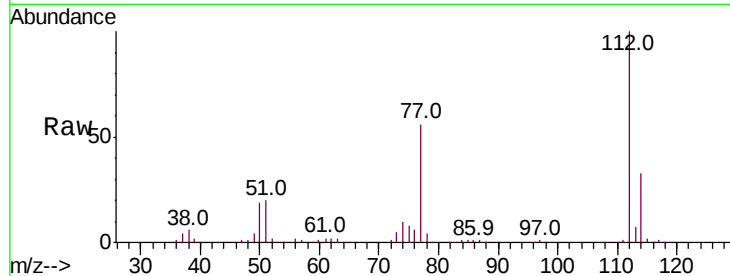




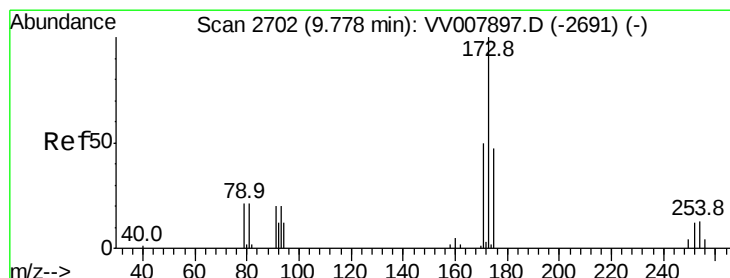
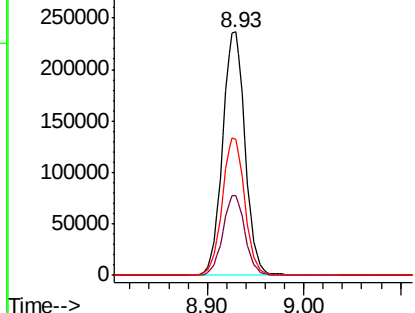
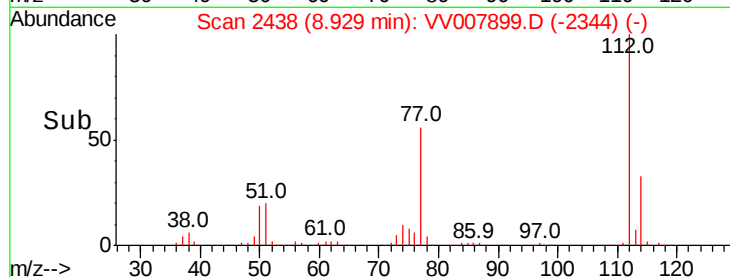
#51
Chlorobenzene
Concen: 19.203 ug/L
RT: 8.93 min Scan# 2438
Delta R.T. 0.00 min
Lab File: VV007899.D
Acq: 27 Sep 2018 10:59

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:112 Resp: 380710
Ion Ratio Lower Upper
112 100
114 32.8 22.4 41.6
77 56.0 45.0 67.6

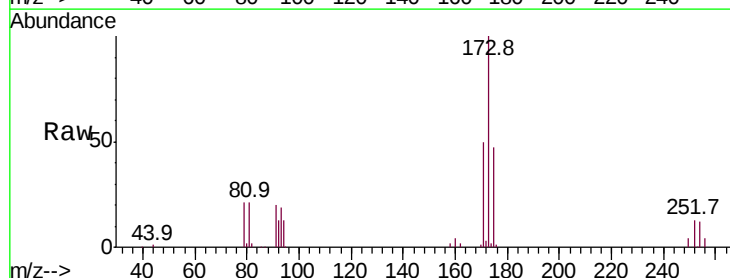


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

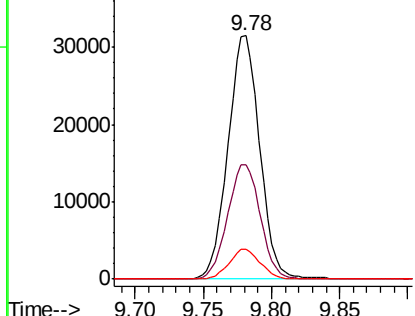
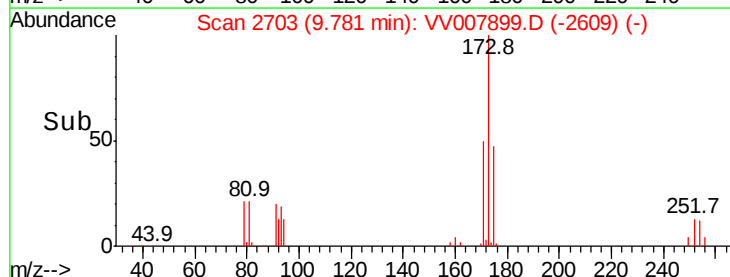


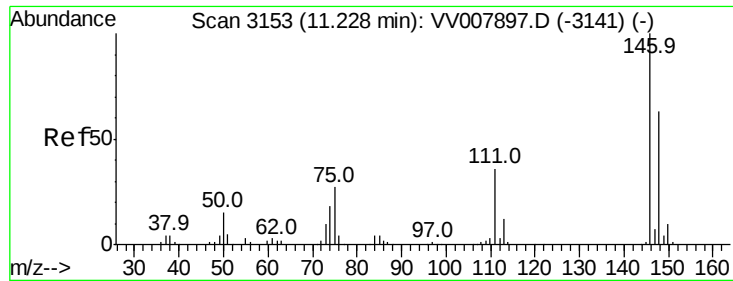
#61
Bromoform
Concen: 17.736 ug/L
RT: 9.78 min Scan# 2703
Delta R.T. 0.00 min
Lab File: VV007899.D
Acq: 27 Sep 2018 10:59

Tgt Ion:173 Resp: 50898
Ion Ratio Lower Upper
173 100
175 48.2 41.0 61.6
254 12.0 9.6 14.4



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V





#62

1,3-Dichlorobenzene

Concen: 8.591 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.09 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

Instrument :

MSVOA_V

ClientSampled :

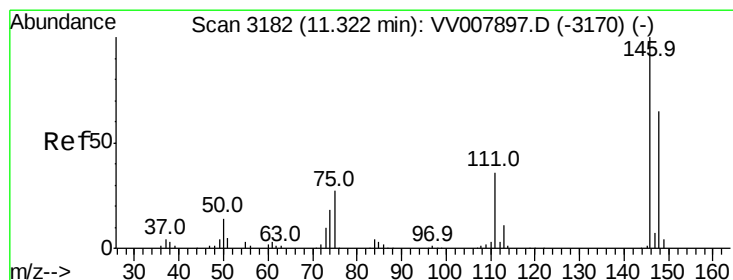
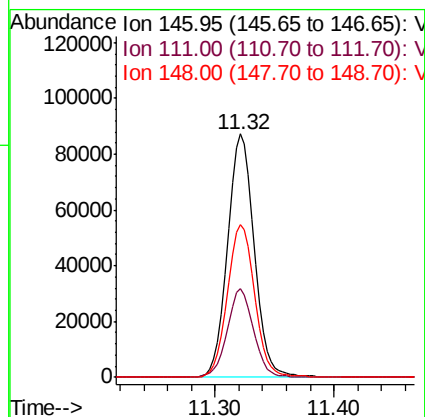
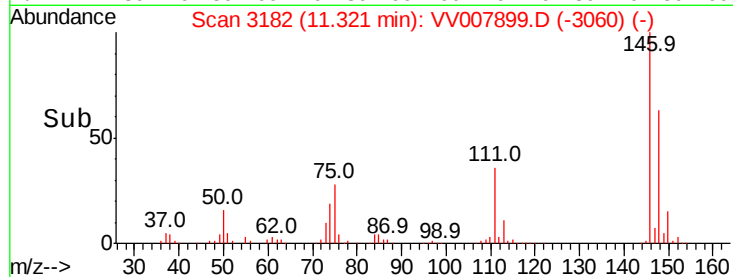
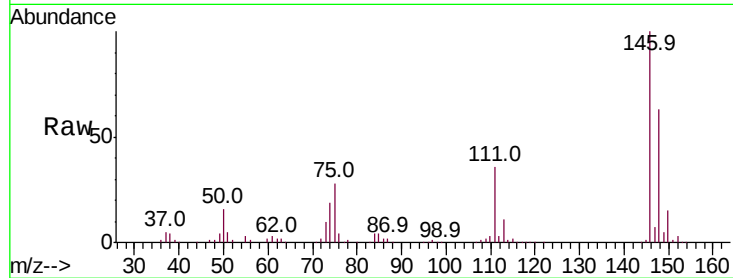
Tot Ion:146 Resp: 135522

Ion Ratio Lower Upper

146 100

111 36.3 25.8 48.0

148 62.8 44.7 82.9



#63

1,4-Dichlorobenzene

Concen: 8.263 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VV007899.D

Acq: 27 Sep 2018 10:59

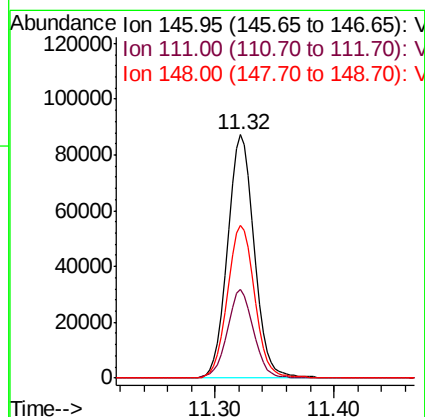
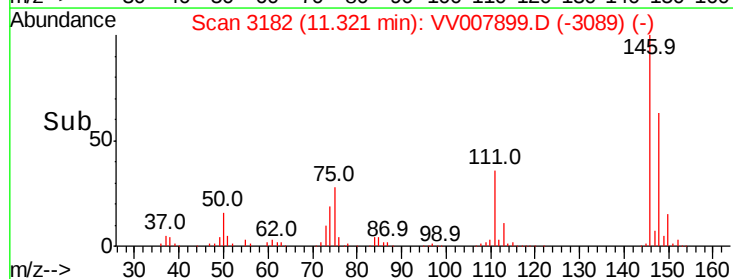
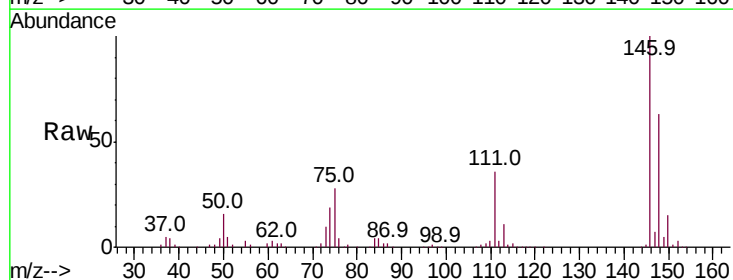
Tgt Ion:146 Resp: 135522

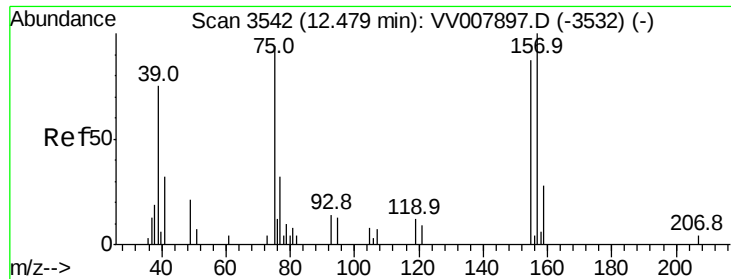
Ion Ratio Lower Upper

146 100

111 36.3 25.3 47.1

148 62.8 44.7 82.9

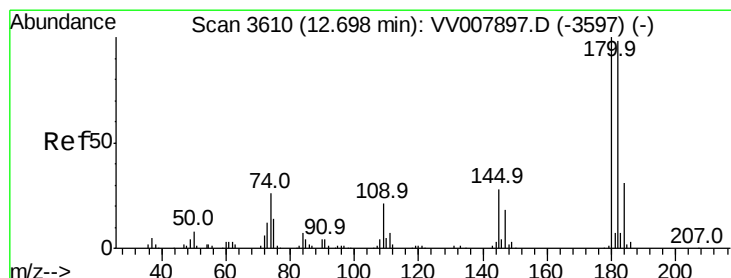
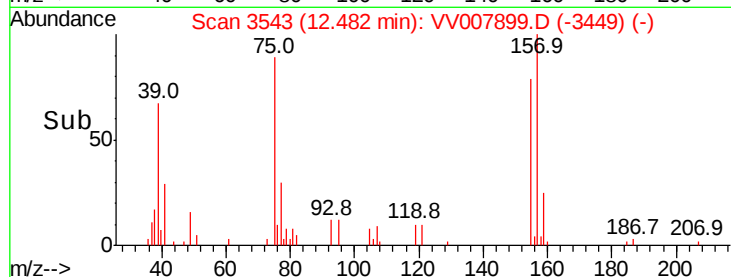
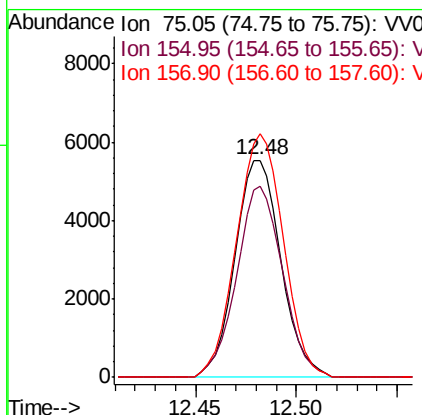
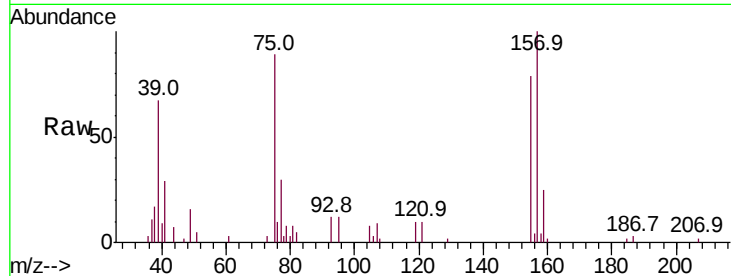




#66
 1,2-Dibromo-3-chloropropane
 Concen: 11.682 ug/L
 RT: 12.48 min Scan# 3543
 Delta R.T. 0.00 min
 Lab File: VV007899.D
 Acq: 27 Sep 2018 10:59

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 75 Resp: 8849
 Ion Ratio Lower Upper
 75 100
 155 88.2 83.4 125.2
 157 112.0 93.9 140.9



#67
 1,3,5-Trichlorobenzene
 Concen: 0.045 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VV007899.D
 Acq: 27 Sep 2018 10:59

Tgt Ion: 180 Resp: 609
 Ion Ratio Lower Upper
 180 100
 182 93.9 76.2 114.4
 184 17.2 24.5 36.7#
 145 3.1 22.2 33.4#

