

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092818\
 Data File : VV007975.D
 Acq On : 29 Sep 2018 01:23
 Operator : SY/MD
 Sample : J5091-06
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E62T0

Quant Time: Oct 01 04:57:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 01 04:55:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	88178	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	83581	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	42462	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	17252	3.65	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.00%
7) Chloroethane-d5	1.59	69	17473	4.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.60%
11) 1,1-Dichloroethene-d2	2.14	63	29911	2.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.00%#
20) 2-Butanone-d5	3.97	46	67909	47.76	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.52%
24) Chloroform-d	4.41	84	67530	6.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	125.40%#
26) 1,2-Dichloroethane-d4	5.09	65	26027	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.80%
32) Benzene-d6	5.10	84	88225	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
36) 1,2-Dichloropropane-d6	6.12	67	28854	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	7.36	98	80698	3.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.40%
43) trans-1,3-Dichloropropene-	7.67	79	8844	3.63	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.60%
46) 2-Hexanone-d5	8.14	63	47361	44.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.10%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	21883	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	36388	4.43	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.60%

Target Compounds

					Ovalue
15) Methyl Acetate	2.48	43	359	0.136 ug/L #	51
18) trans-1,2-Dichloroethene	2.79	96	612	0.095 ug/L #	66
22) cis-1,2-Dichloroethene	3.97	96	1220	0.188 ug/L	93
25) Chloroform	4.43	83	498832	42.072 ug/L	98
29) 1,1,1-Trichloroethane	4.66	97	1192	0.119 ug/L	97
31) Carbon tetrachloride	4.88	117	406312	45.858 ug/L	99
34) Trichloroethene	5.96	95	1979	0.289 ug/L	91
35) Methylcyclohexane	6.12	83	7054	0.686 ug/L #	18
37) 1,2-Dichloropropane	6.13	63	3283	0.537 ug/L #	87
39) cis-1,3-Dichloropropene	7.03	75	700	0.086 ug/L #	59
47) Tetrachloroethene	8.02	164	2029	0.320 ug/L	94
48) 2-Hexanone	8.14	43	6866	2.572 ug/L #	69
49) Dibromochloromethane	8.02	129	1724	0.342 ug/L #	12
51) Chlorobenzene	8.93	112	61002	3.388 ug/L	97
62) 1,3-Dichlorobenzene	11.23	146	32810	2.340 ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	55965	3.840 ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	70862	5.362 ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 01 04:55:39 2018
Response via : Initial Calibration

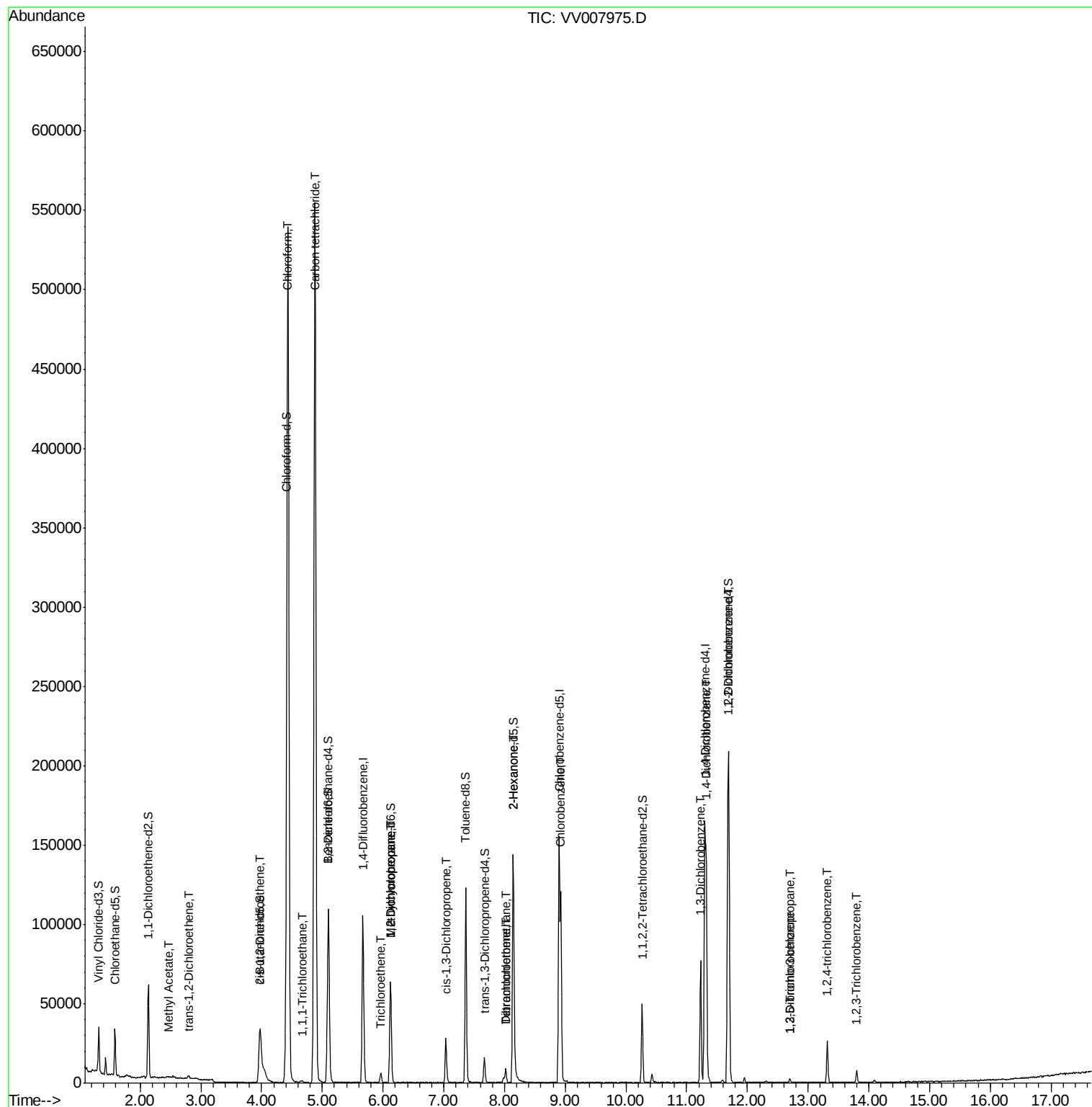
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	12.69	75	136	0.202	ug/L #	1
67) 1,3,5-Trichlorobenzene	12.70	180	1170	0.097	ug/L	96
68) 1,2,4-trichlorobenzene	13.32	180	9217	0.909	ug/L	95
70) 1,2,3-Trichlorobenzene	13.80	180	2753	0.300	ug/L	99

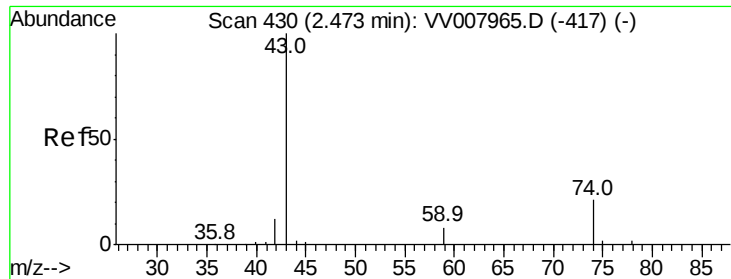
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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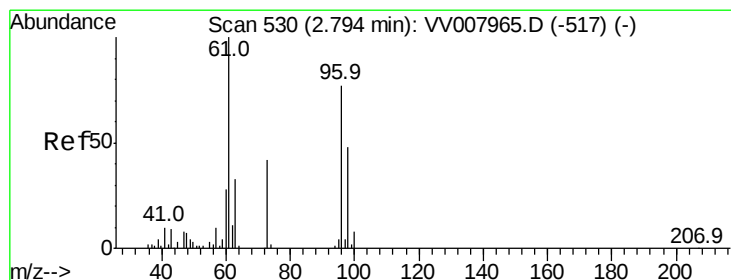
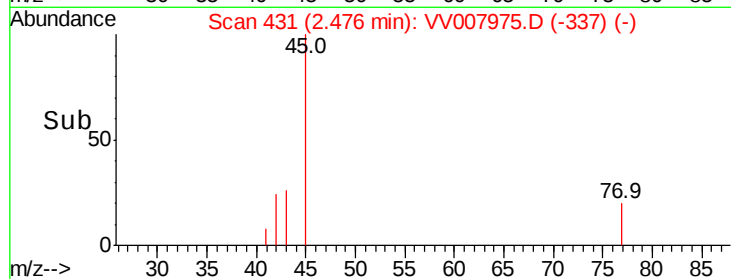
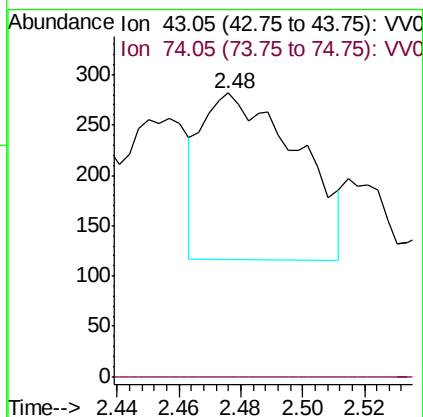
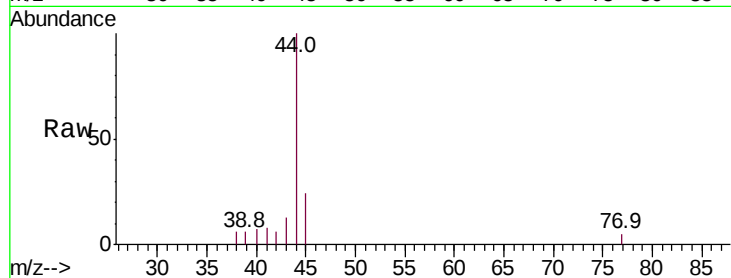




#15
Methvl Acetate
Concen: 0.136 ug/L
RT: 2.48 min Scan# 431
Delta R.T. 0.00 min
Lab File: VV007975.D
Acq: 29 Sep 2018 01:23

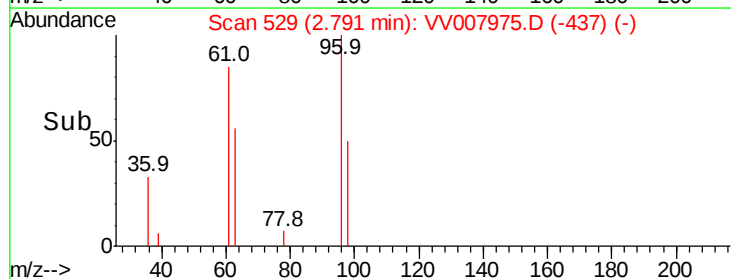
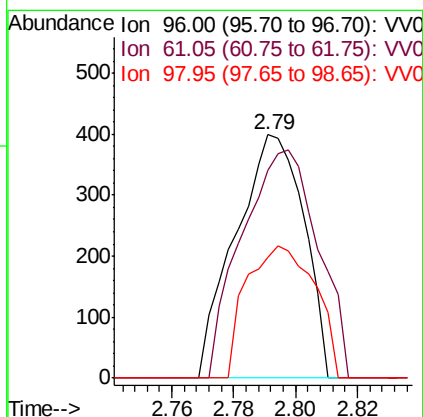
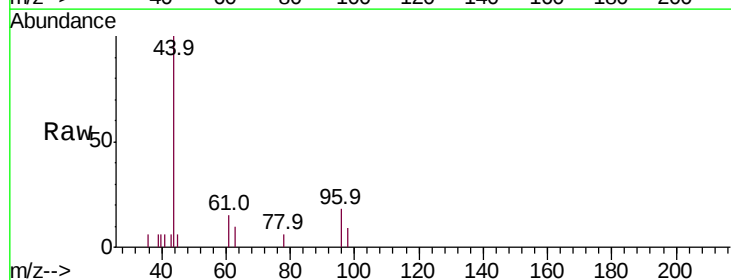
Instrument :
MSVOA_V
ClientSampleId :
E62T0

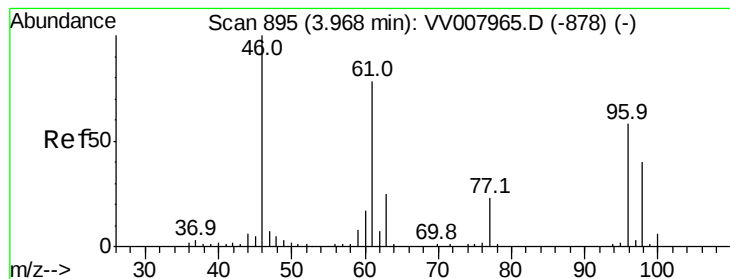
Tot Ion: 43 Resp: 359
Ion Ratio Lower Upper
43 100
74 0.0 19.5 29.3#



#18
trans-1,2-Dichloroethene
Concen: 0.095 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV007975.D
Acq: 29 Sep 2018 01:23

Tgt Ion: 96 Resp: 612
Ion Ratio Lower Upper
96 100
61 85.5 94.2 175.0#
98 49.9 44.9 83.5





#22

cis-1,2-Dichloroethene

Concen: 0.188 ug/L

RT: 3.97 min Scan# 895

Delta R.T. 0.00 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Instrument :
MSVOA_V
ClientSampleId :
E62T0

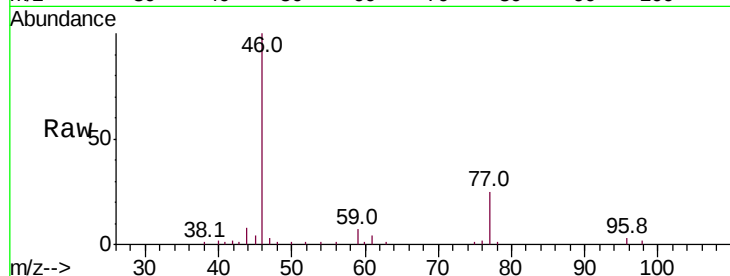
Tot Ion: 96 Resp: 1220

Ion Ratio Lower Upper

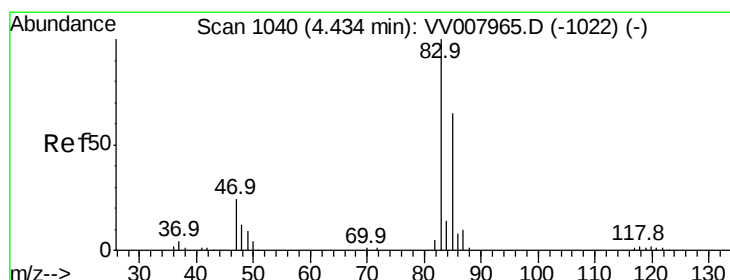
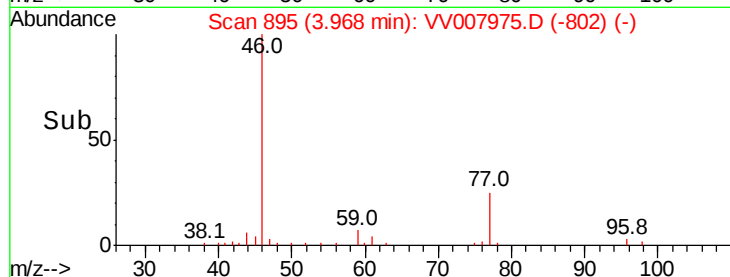
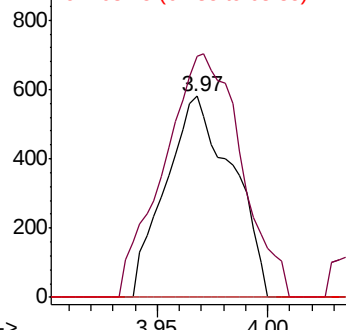
96 100

61 119.8 89.5 166.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



#25

Chloroform

Concen: 42.072 ug/L

RT: 4.43 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VV007975.D

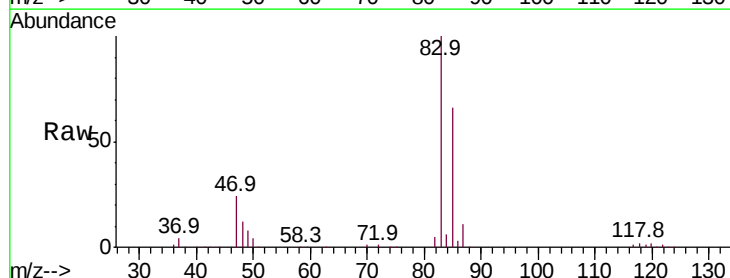
Acq: 29 Sep 2018 01:23

Tgt Ion: 83 Resp: 498832

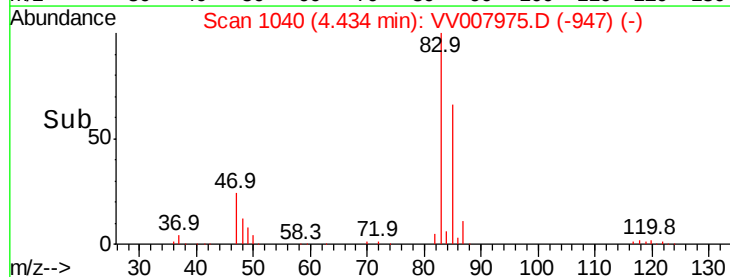
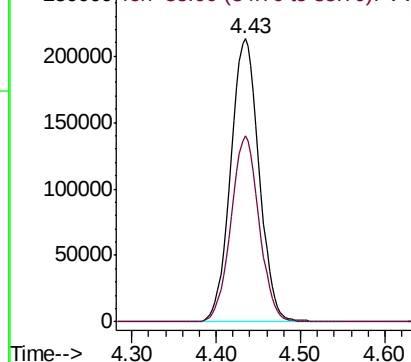
Ion Ratio Lower Upper

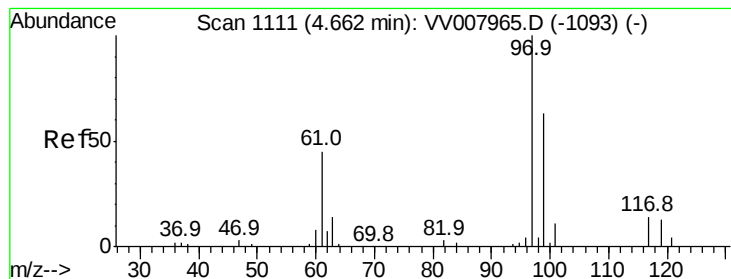
83 100

85 65.6 44.8 83.2



Abundance Ion 83.05 (82.75 to 83.75): VV0
Ion 85.00 (84.70 to 85.70): VV0





#29

1,1,1-Trichloroethane

Concen: 0.119 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Instrument :

MSVOA_V

ClientSampleId :

E62T0

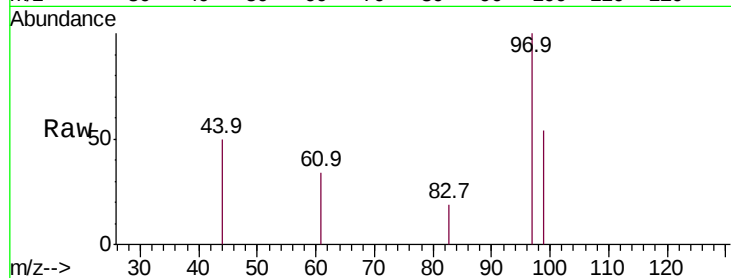
Tot Ion: 97 Resp: 1192

Ion Ratio Lower Upper

97 100

99 62.2 51.2 76.8

61 45.6 34.6 52.0



Abundance Ion 96.95 (96.65 to 97.65): VV007975.D (-1093) (-)

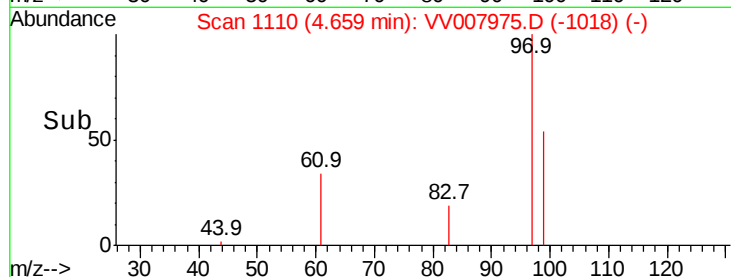
Ion 99.05 (98.75 to 99.75): VV007975.D (-1093) (-)

Ion 61.05 (60.75 to 61.75): VV007975.D (-1093) (-)

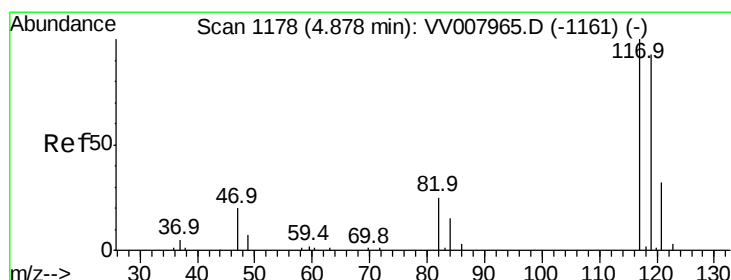
4.66

4.65

4.70



Time-->



#31

Carbon tetrachloride

Concen: 45.858 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV007975.D

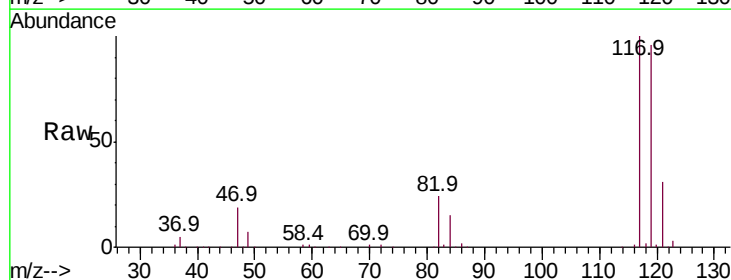
Acq: 29 Sep 2018 01:23

Tgt Ion: 117 Resp: 406312

Ion Ratio Lower Upper

117 100

119 96.2 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): VV007975.D (-1085) (-)

Ion 118.90 (118.60 to 119.60): VV007975.D (-1085) (-)

4.88

4.87

4.89

4.90

4.91

4.92

4.93

4.94

4.95

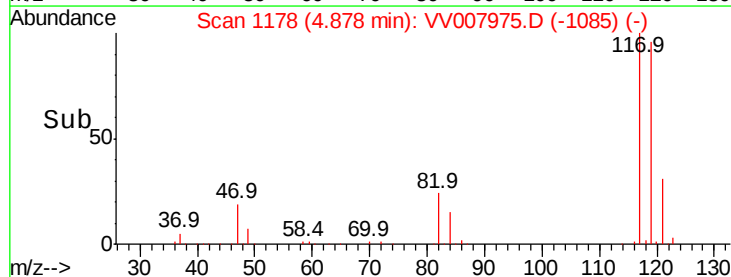
4.96

4.97

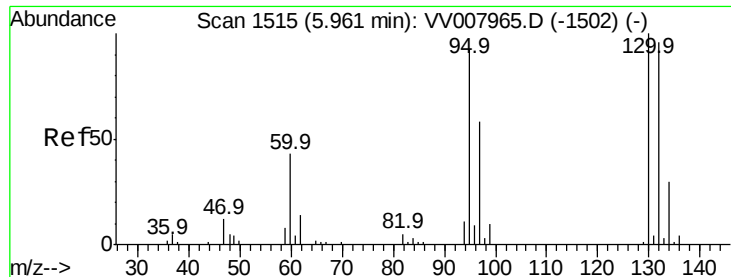
4.98

4.99

5.00



Time-->



#34

Trichloroethene

Concen: 0.289 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Instrument :

MSVOA_V

ClientSampleId :

E62T0

Tot Ion: 95 Resp: 1979

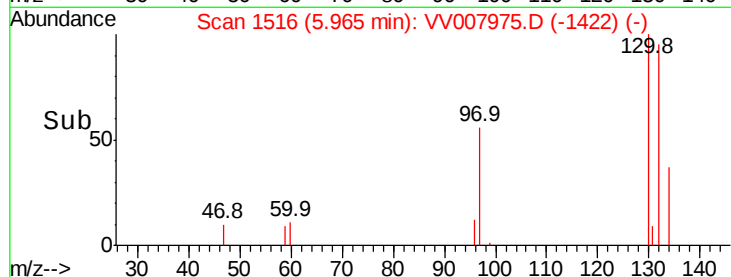
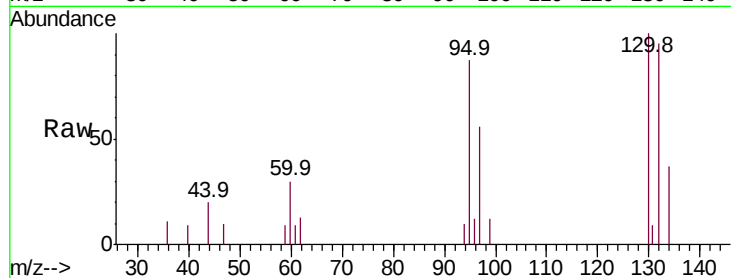
Ion Ratio Lower Upper

95 100

97 64.7 43.6 81.0

132 108.9 69.9 129.9

130 114.7 71.7 133.3

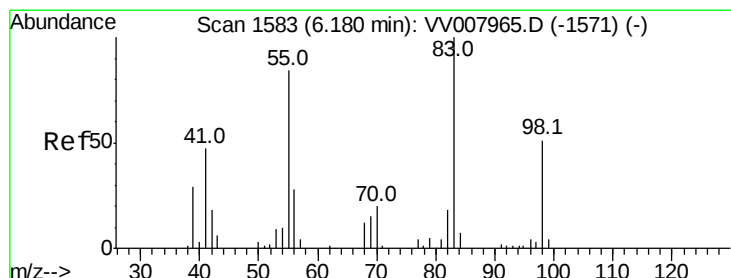
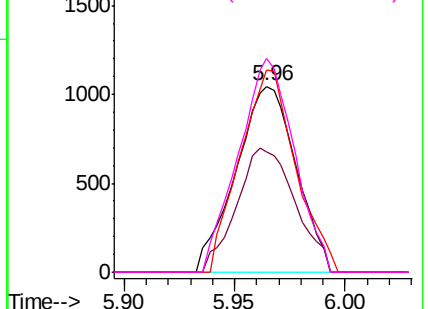


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.686 ug/L

RT: 6.12 min Scan# 1565

Delta R.T. -0.06 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

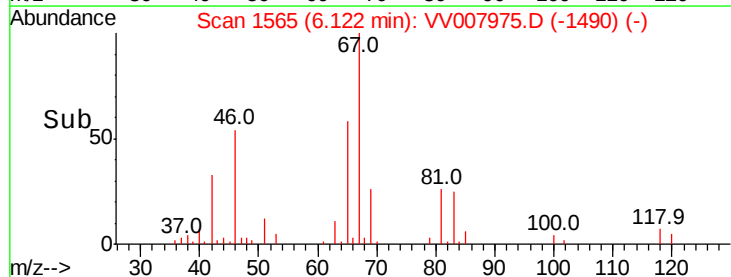
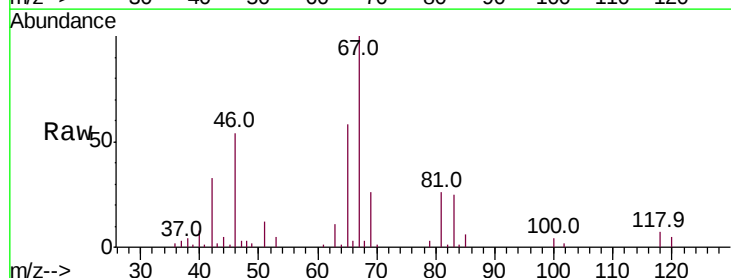
Tgt Ion: 83 Resp: 7054

Ion Ratio Lower Upper

83 100

55 0.0 62.2 93.2#

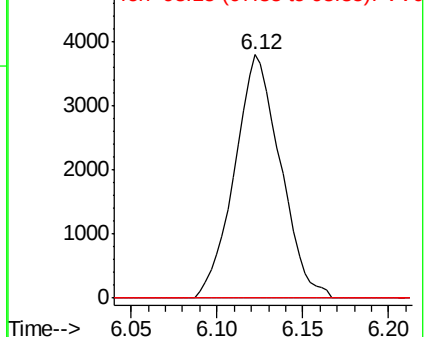
98 0.3 38.0 57.0#

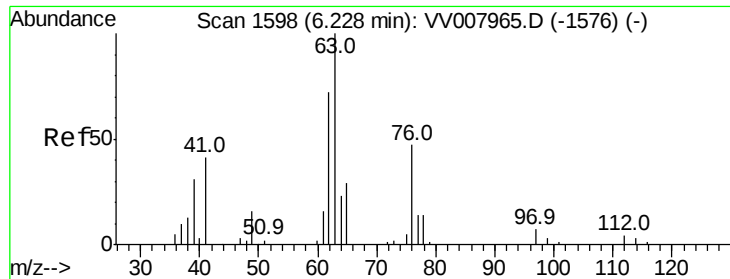


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.537 ug/L

RT: 6.13 min Scan# 1566

Delta R.T. -0.10 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Instrument :

MSVOA_V

ClientSampled :

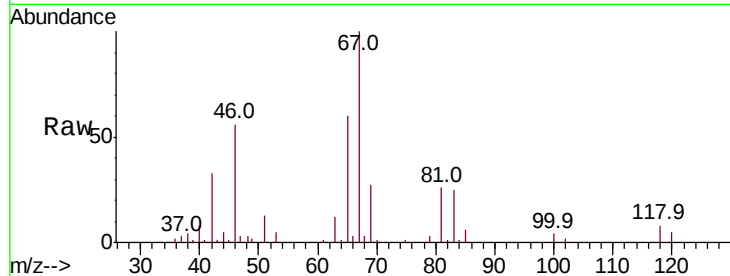
E62T0

Tot Ion: 63 Resp: 3283

Ion Ratio Lower Upper

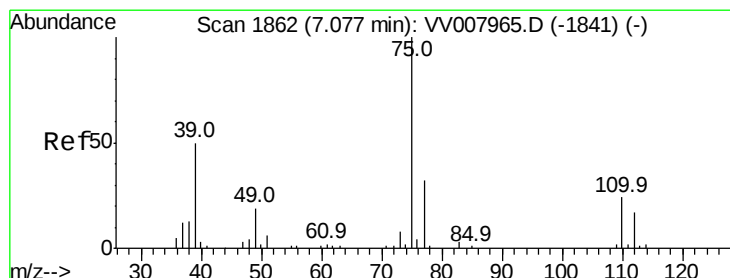
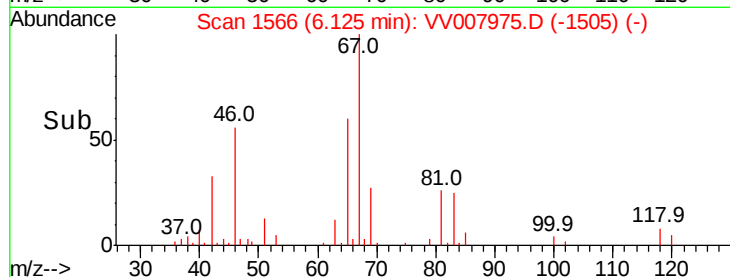
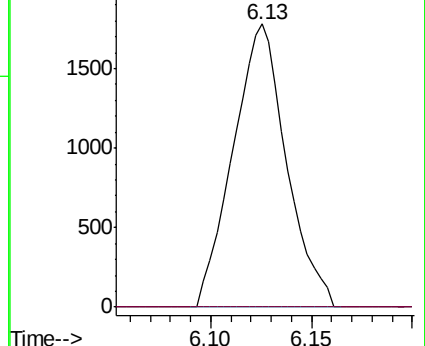
63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V



#39

cis-1,3-Dichloropropene

Concen: 0.086 ug/L

RT: 7.03 min Scan# 1848

Delta R.T. -0.04 min

Lab File: VV007975.D

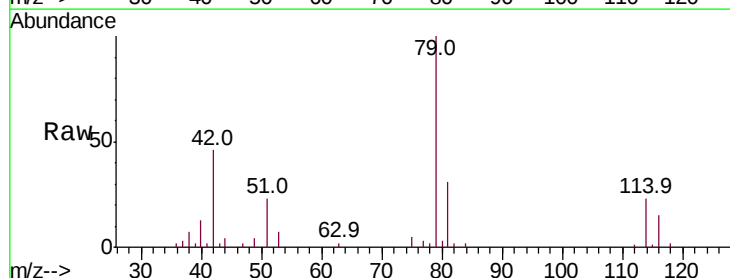
Acq: 29 Sep 2018 01:23

Tgt Ion: 75 Resp: 700

Ion Ratio Lower Upper

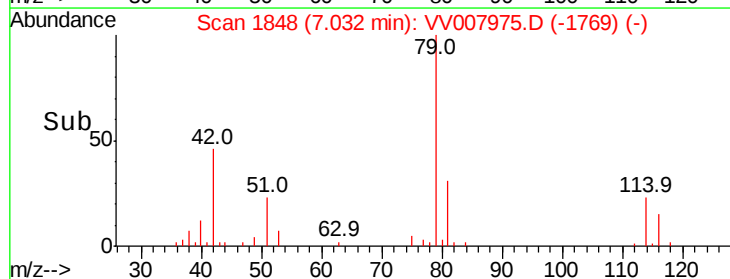
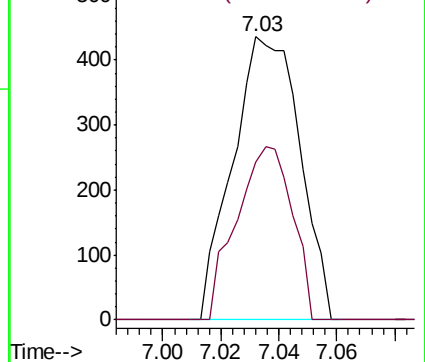
75 100

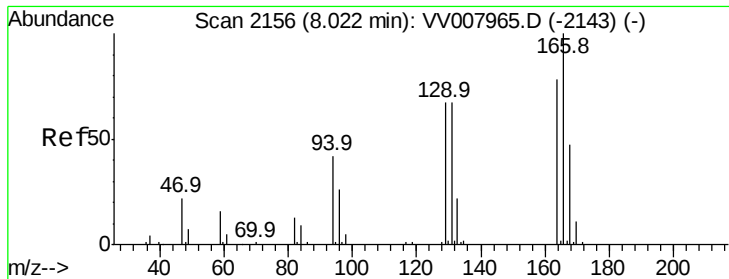
77 55.7 22.9 42.5#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





#47

Tetrachloroethene

Concen: 0.320 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Instrument :

MSVOA_V

ClientSampleId :

E62T0

Tot Ion:164 Resp: 2029

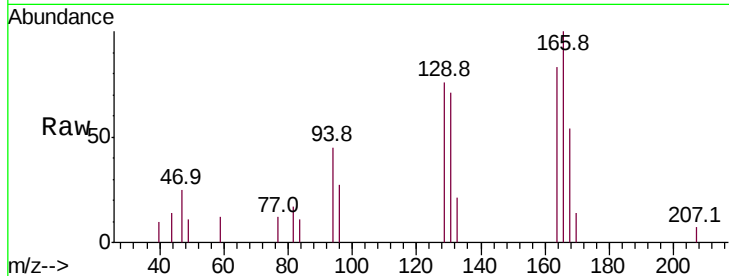
Ion Ratio Lower Upper

164 100

129 91.4 59.2 110.0

131 85.3 57.1 106.1

166 120.0 88.6 164.6



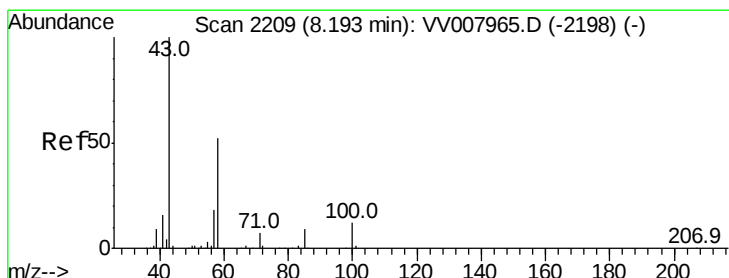
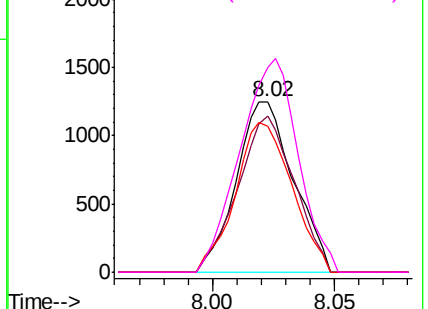
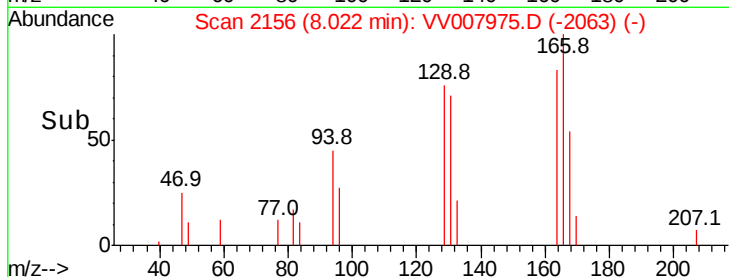
Abundance

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: 2.572 ug/L

RT: 8.14 min Scan# 2194

Delta R.T. -0.05 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Tgt Ion: 43 Resp: 6866

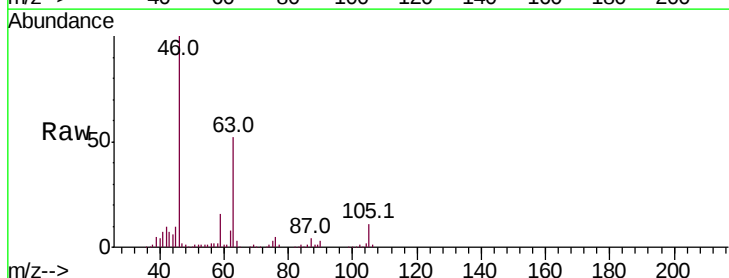
Ion Ratio Lower Upper

43 100

58 32.0 41.9 62.9#

57 34.7 14.3 21.5#

100 1.0 9.2 13.8#



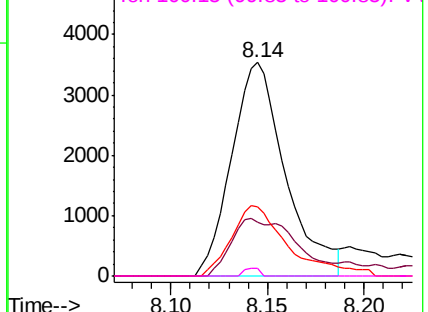
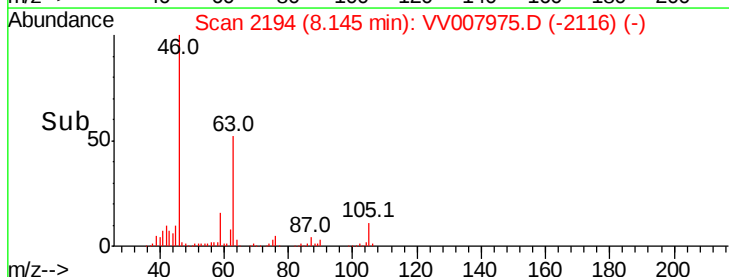
Abundance

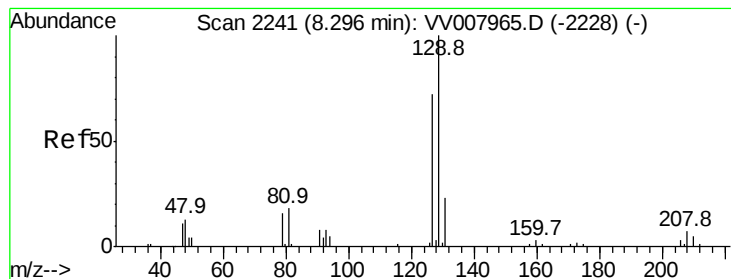
Ion 43.05 (42.75 to 43.75): VV0

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: 0.342 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. -0.27 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Instrument :

MSVOA_V

ClientSampleId :

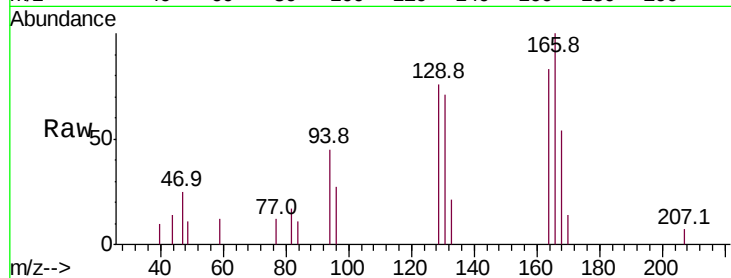
E62T0

Tot Ion:129 Resp: 1724

Ion Ratio Lower Upper

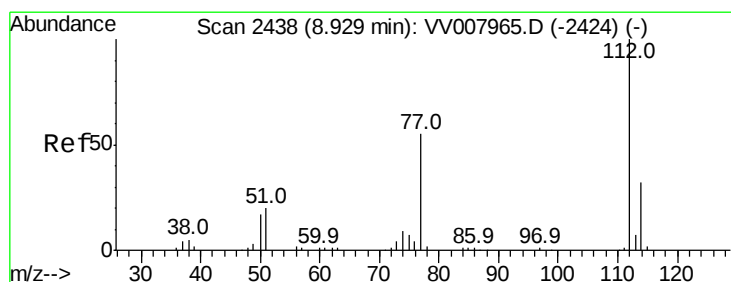
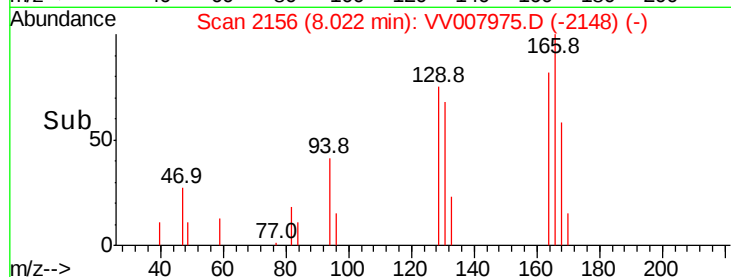
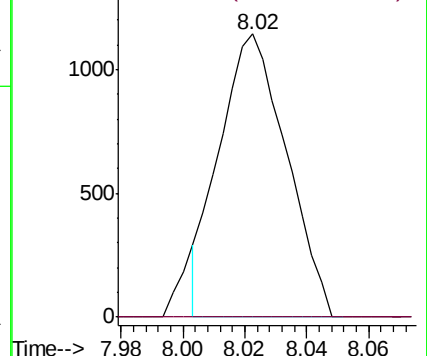
129 100

127 0.0 53.1 98.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#51

Chlorobenzene

Concen: 3.388 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

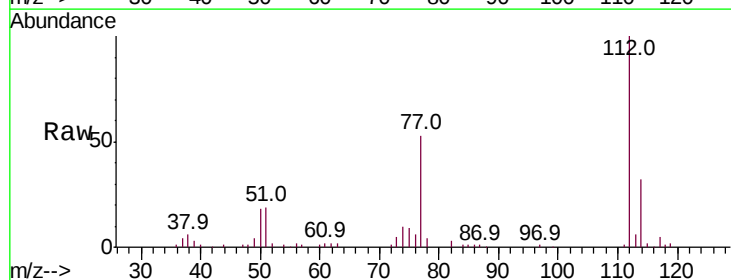
Tgt Ion:112 Resp: 61002

Ion Ratio Lower Upper

112 100

114 32.5 22.4 41.6

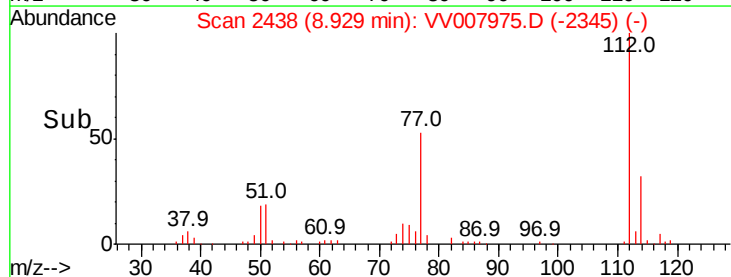
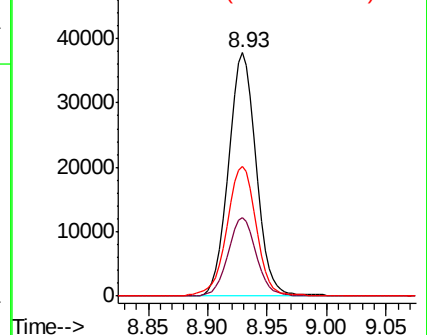
77 53.2 45.0 67.6

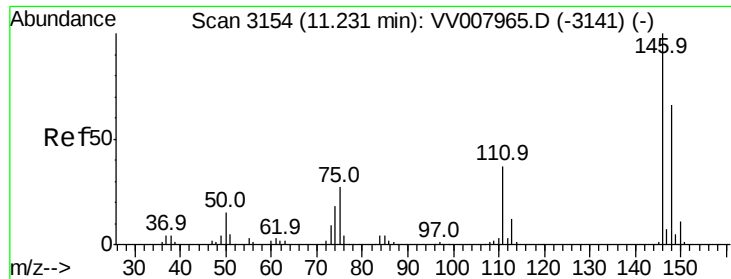


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#62

1,3-Dichlorobenzene

Concen: 2.340 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Instrument :

MSVOA_V

ClientSampleId :

E62T0

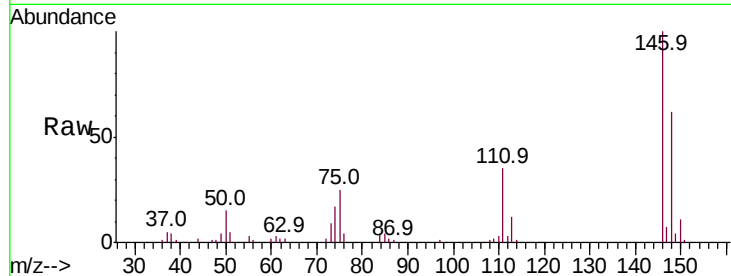
Tot Ion:146 Resp: 32810

Ion Ratio Lower Upper

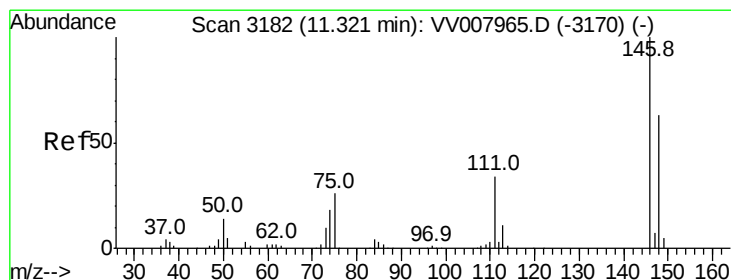
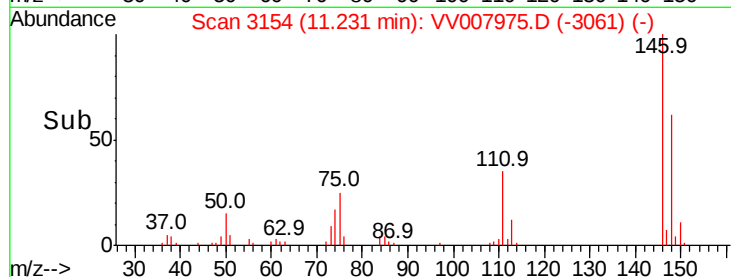
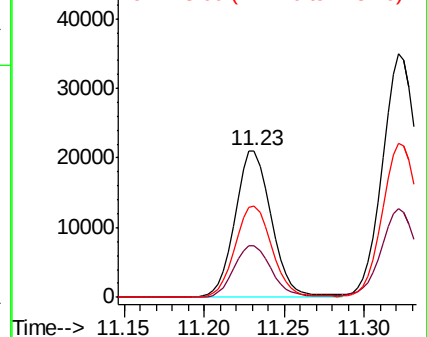
146 100

111 35.3 25.8 48.0

148 62.4 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 3.840 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

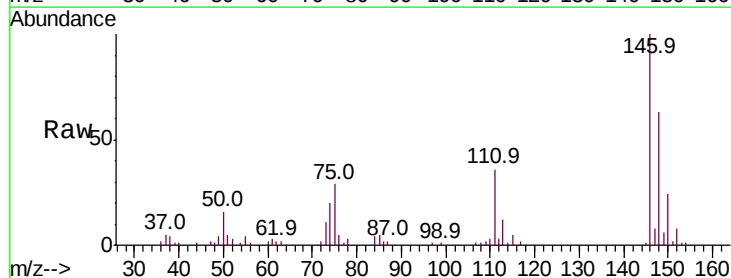
Tgt Ion:146 Resp: 55965

Ion Ratio Lower Upper

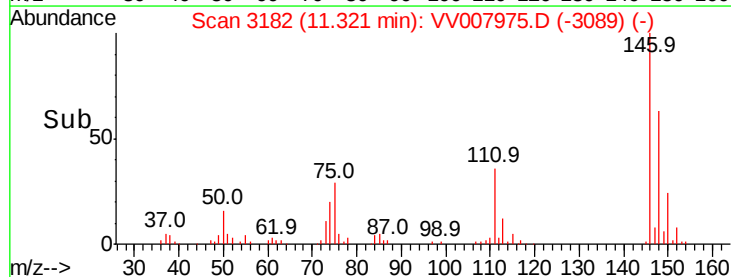
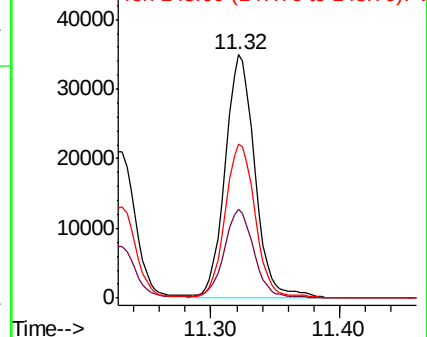
146 100

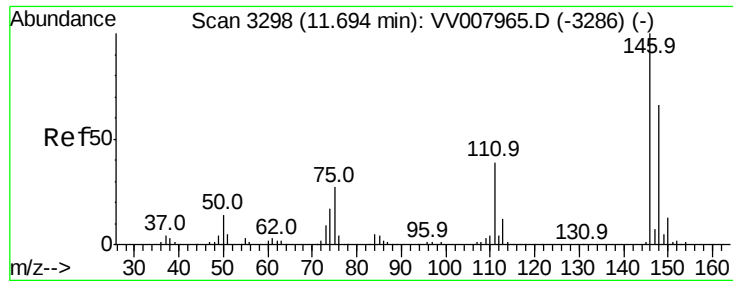
111 36.2 25.3 47.1

148 63.2 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.362 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

Instrument :

MSVOA_V

ClientSampleId :

E62T0

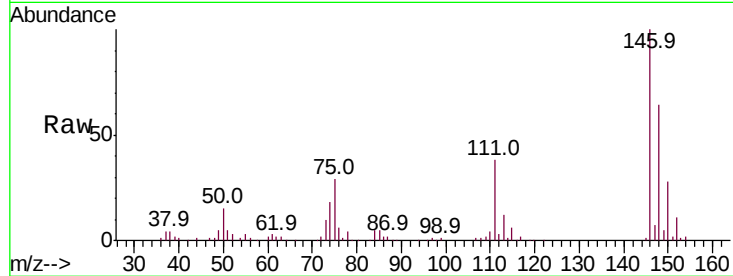
Tot Ion:146 Resp: 70862

Ion Ratio Lower Upper

146 100

111 38.4 31.2 46.8

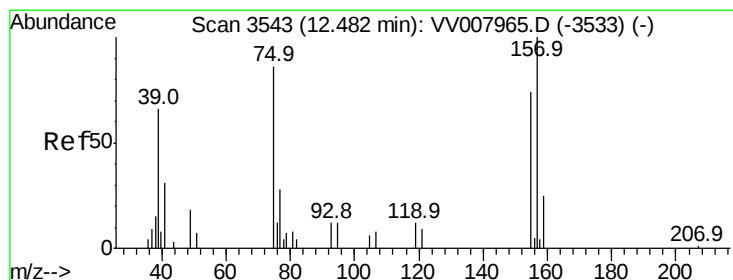
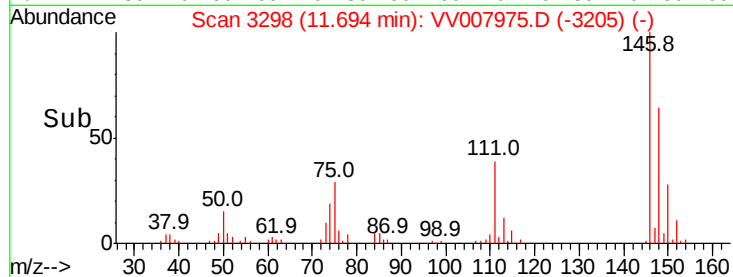
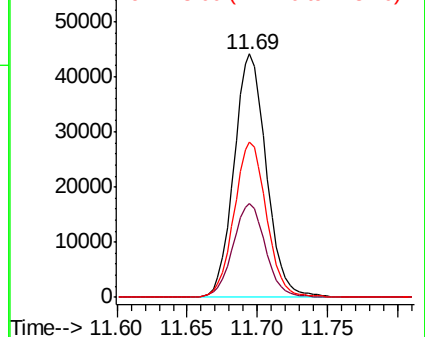
148 64.0 50.3 75.5



Abundance Ion 145.95 (145.65 to 146.65): 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: 0.202 ug/L

RT: 12.69 min Scan# 3609

Delta R.T. 0.21 min

Lab File: VV007975.D

Acq: 29 Sep 2018 01:23

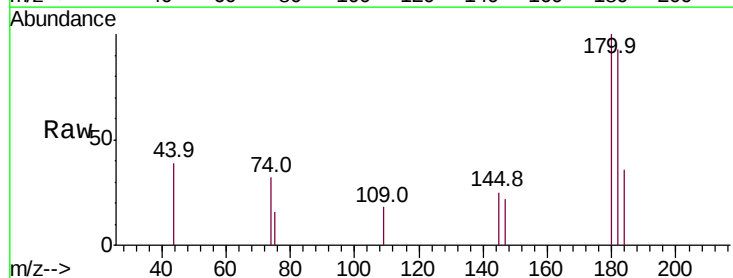
Tgt Ion: 75 Resp: 136

Ion Ratio Lower Upper

75 100

155 0.0 83.4 125.2#

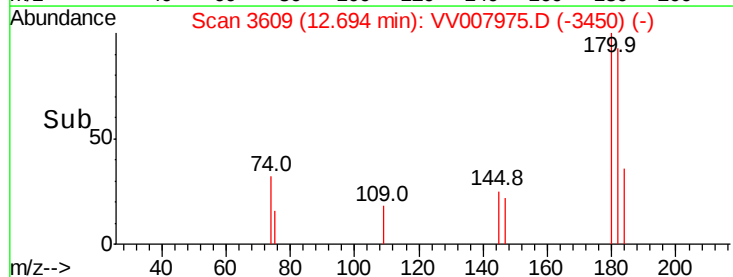
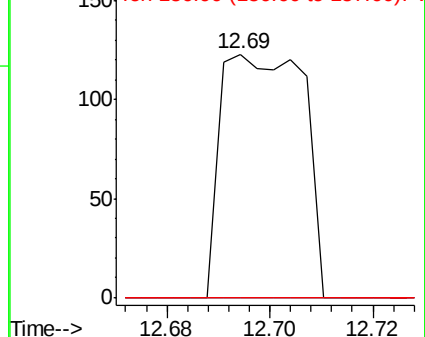
157 0.0 93.9 140.9#

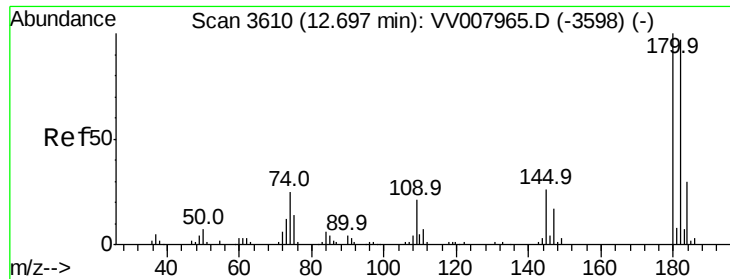


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

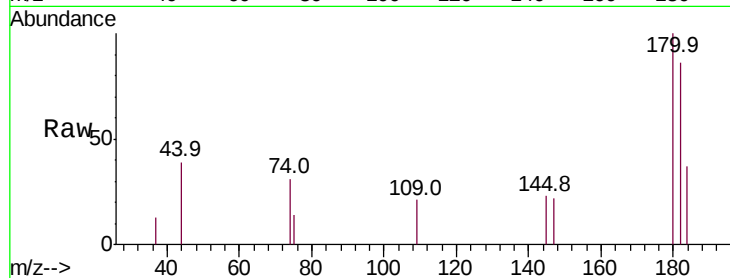




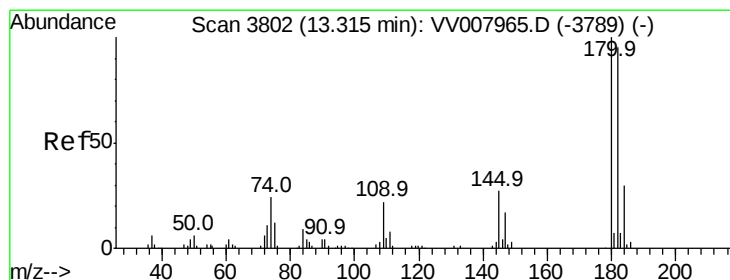
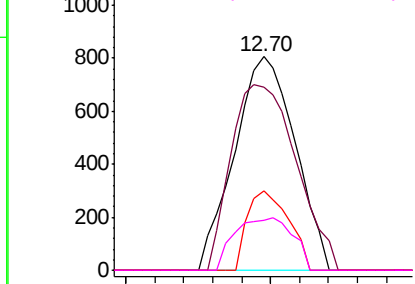
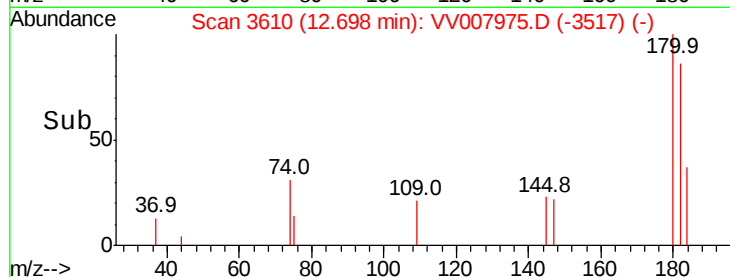
#67
 1,3,5-Trichlorobenzene
 Concen: 0.097 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV007975.D
 Acq: 29 Sep 2018 01:23

Instrument :
 MSVOA_V
 ClientSampleId :
 E62T0

Tot Ion:180	Resp:	1170	
Ion	Ratio	Lower	Upper
180	100		
182	93.7	76.2	114.4
184	25.5	24.5	36.7
145	23.5	22.2	33.4

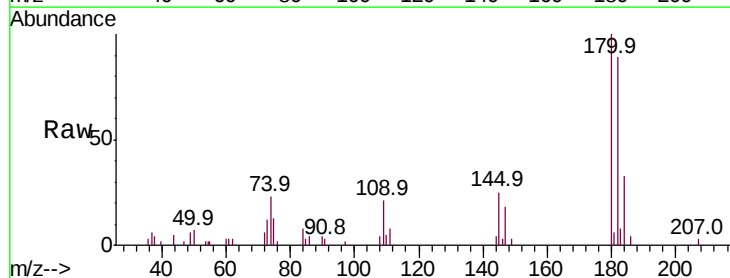


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

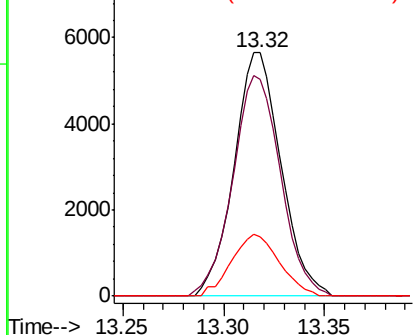
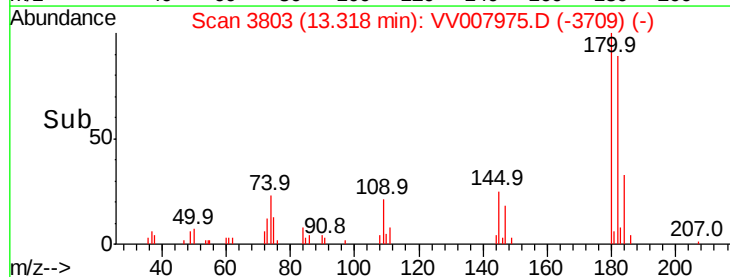


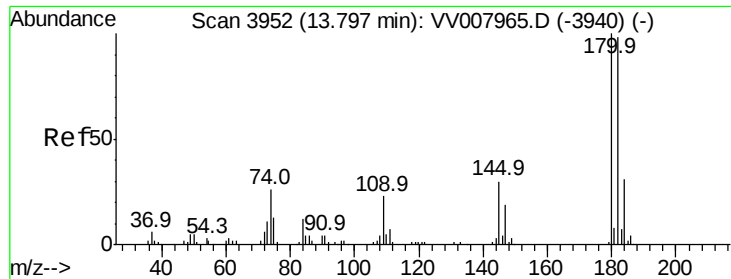
#68
 1,2,4-trichlorobenzene
 Concen: 0.909 ug/L
 RT: 13.32 min Scan# 3803
 Delta R.T. 0.00 min
 Lab File: VV007975.D
 Acq: 29 Sep 2018 01:23

Tgt	Ion:180	Resp:	9217
Ion	Ratio	Lower	Upper
180	100		
182	92.1	77.4	116.2
145	25.7	22.6	33.8



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

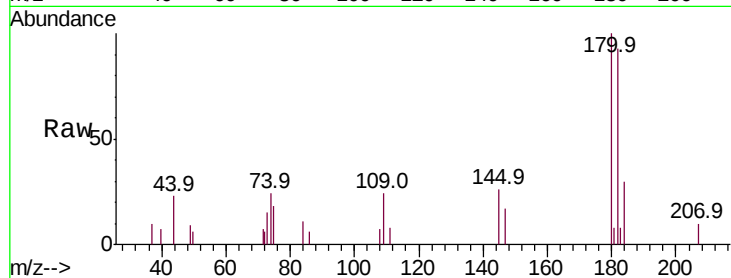




#70
 1,2,3-Trichlorobenzene
 Concen: 0.300 ug/L
 RT: 13.80 min Scan# 3953
 Delta R.T. 0.00 min
 Lab File: VV007975.D
 Acq: 29 Sep 2018 01:23

Instrument :
 MSVOA_V
 ClientSampleId :
 E62T0

Tot Ion:180 Resp: 2753
 Ion Ratio Lower Upper
 180 100
 182 95.8 75.7 113.5
 145 29.4 23.4 35.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

