

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061919\
 Data File : VV011588.D
 Acq On : 18 Jun 2019 21:13
 Operator : SY/MD
 Sample : K3381-09
 Misc : 25ML/MSVOA V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFCQ6

Quant Time: Jun 19 11:46:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 19 02:08:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	144269	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	139515	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	57163	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	52897	4.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.20%
7) Chloroethane-d5	1.55	69	35687	5.17	ug/L	-0.03
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.40%
11) 1,1-Dichloroethene-d2	2.12	63	297087	14.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	286.40%#
20) 2-Butanone-d5	3.94	46	194998	63.62	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	127.24%
24) Chloroform-d	4.39	84	107735	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.80%
26) 1,2-Dichloroethane-d4	5.08	65	63429	5.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.60%
32) Benzene-d6	5.09	84	210871	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
36) 1,2-Dichloropropane-d6	6.11	67	69973	5.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.00%
41) Toluene-d8	7.36	98	181929	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	7.66	79	21863	4.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.40%
46) 2-Hexanone-d5	8.13	63	151990	59.90	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	119.80%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	56180	5.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	65461	5.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	357474	25.963	ug/L 100
8) Chloroethane	1.57	64	164481	24.670	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	144833	16.720	ug/L 98
12) 1,1-Dichloroethene	2.13	96	374786	41.771	ug/L # 79
16) Methylene chloride	2.52	84	5600	0.549	ug/L 98
18) trans-1,2-Dichloroethene	2.78	96	8916	0.879	ug/L 95
19) 1,1-Dichloroethane	3.22	63	3546054	168.956	ug/L 99
22) cis-1,2-Dichloroethene	3.95	96	2023111	176.018	ug/L # 97
25) Chloroform	4.42	83	12628	0.600	ug/L 94
27) 1,2-Dichloroethane	5.18	62	10438	0.703	ug/L # 89
29) 1,1,1-Trichloroethane	4.65	97	3798979	218.855	ug/L 98
33) Benzene	5.14	78	10303	0.226	ug/L 100
34) Trichloroethene	5.96	95	1714161	147.508	ug/L 98
45) 1,1,2-Trichloroethane	7.88	97	6005	0.742	ug/L 97
47) Tetrachloroethene	8.02	164	306513	36.986	ug/L 98

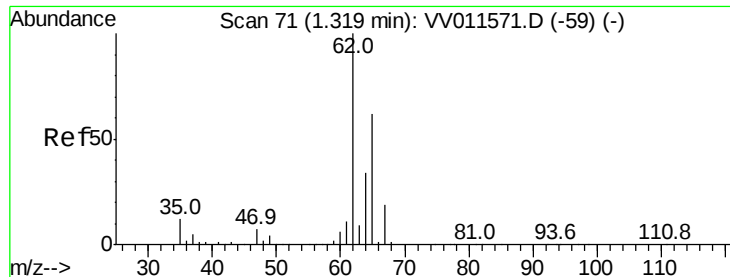
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061919\
Data File : VV011588.D
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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 19 02:08:53 2019
Response via : Initial Calibration

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

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



#5

Vinyl chloride

Concen: 25.963 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

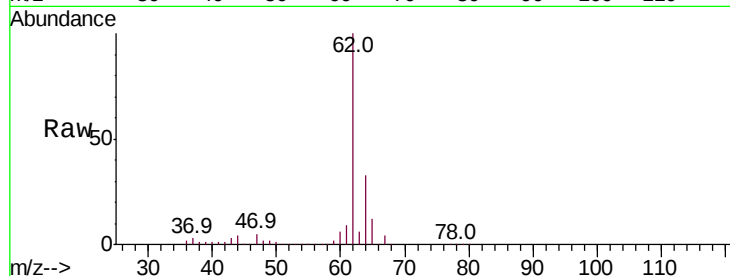
BFCQ6

Tot Ion: 62 Resp: 357474

Ion Ratio Lower Upper

62 100

64 32.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV011571.D (-59) (-)

Ion 64.10 (63.80 to 64.80): VV011588.D (-64) (-)

1.32

400000

300000

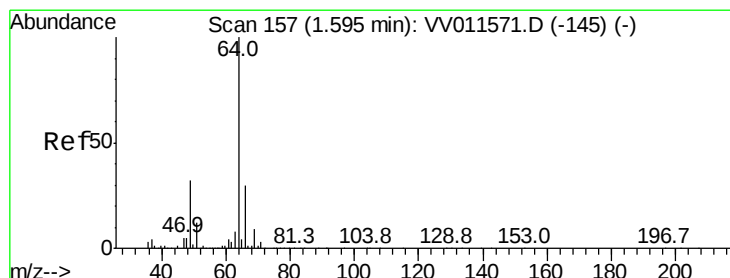
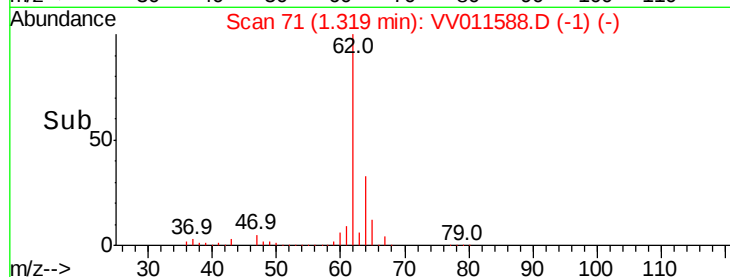
200000

100000

0

1.25 1.30 1.35 1.40 1.45

Time-->



#8

Chloroethane

Concen: 24.670 ug/L

RT: 1.57 min Scan# 148

Delta R.T. -0.03 min

Lab File: VV011588.D

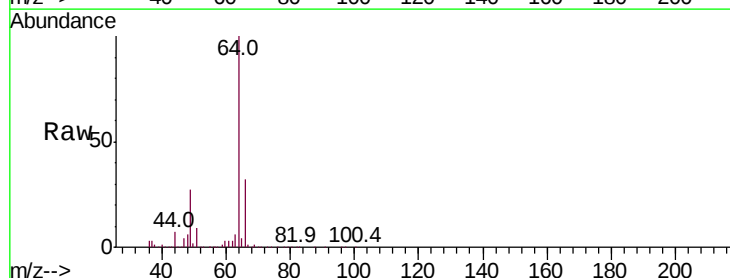
Acq: 18 Jun 2019 21:13

Tgt Ion: 64 Resp: 164481

Ion Ratio Lower Upper

64 100

66 32.1 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VV011571.D (-145) (-)

Ion 66.05 (65.75 to 66.75): VV011588.D (-64) (-)

1.57

150000

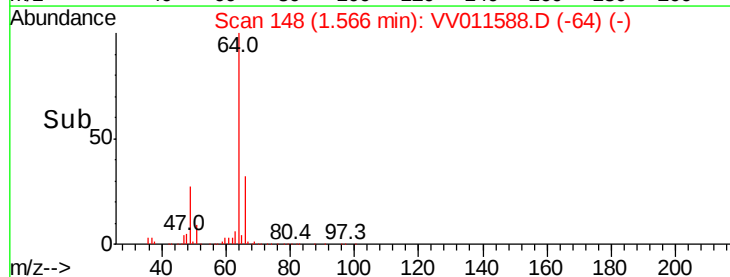
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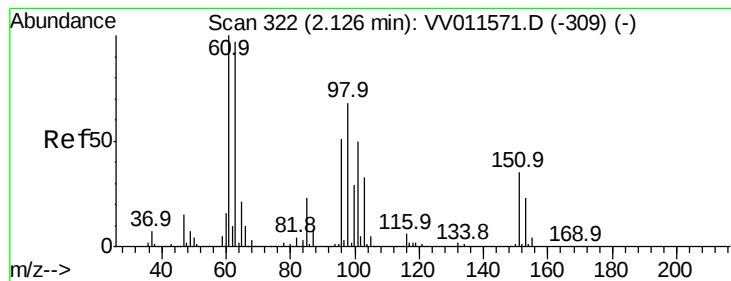
50000

0

1.50 1.55 1.60

Time-->





#10

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

Concen: 16.720 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

BFCQ6

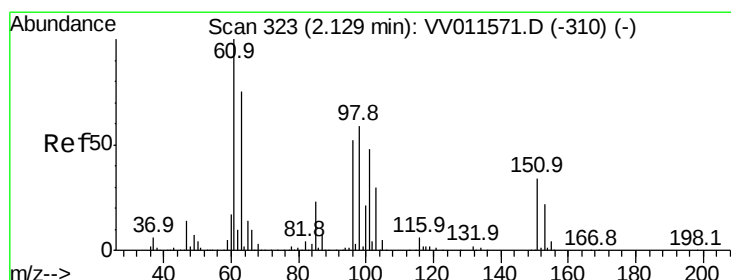
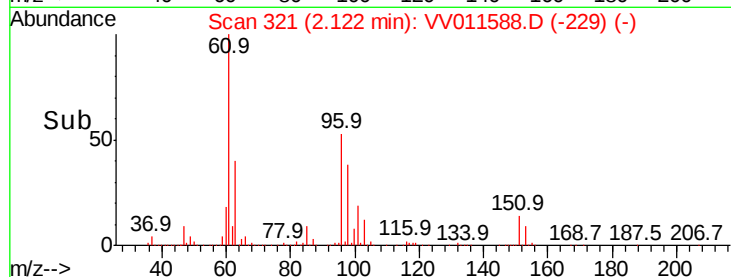
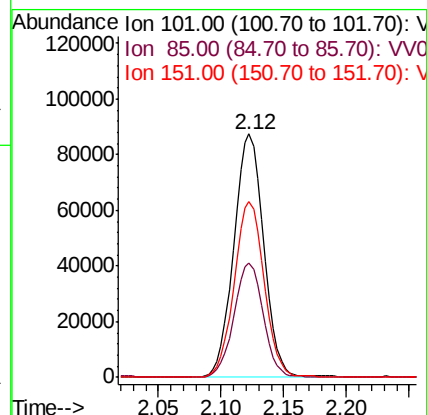
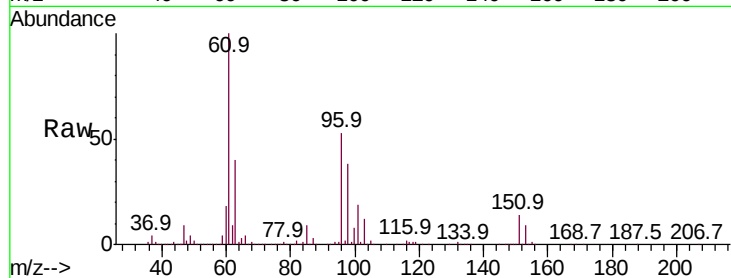
Tot Ion:101 Resp: 144833

Ion Ratio Lower Upper

101 100

85 45.3 37.3 55.9

151 72.0 59.4 89.2



#12

1,1-Dichloroethene

Concen: 41.771 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

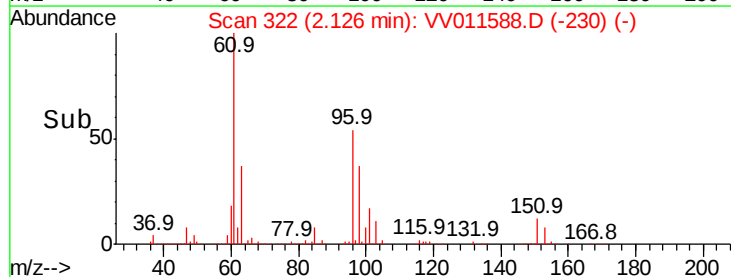
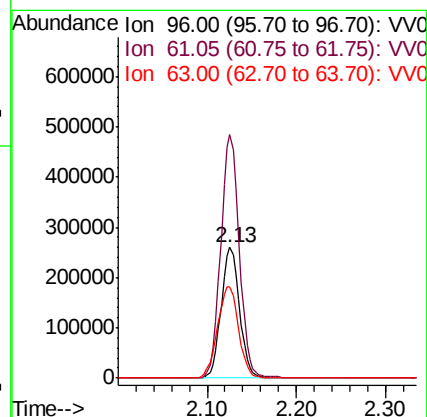
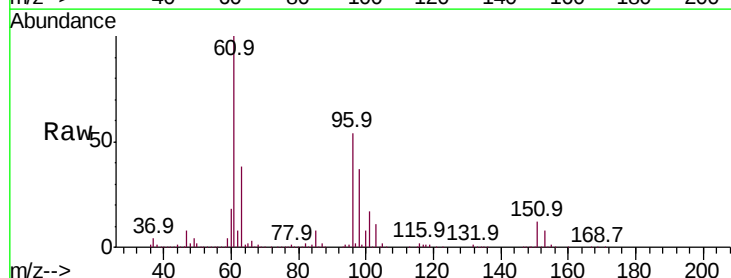
Tgt Ion: 96 Resp: 374786

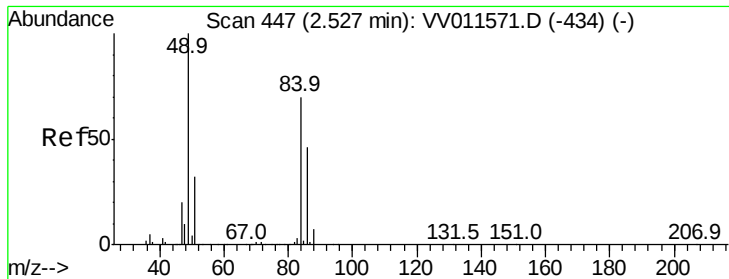
Ion Ratio Lower Upper

96 100

61 186.6 135.9 252.5

63 70.0 86.2 160.2#

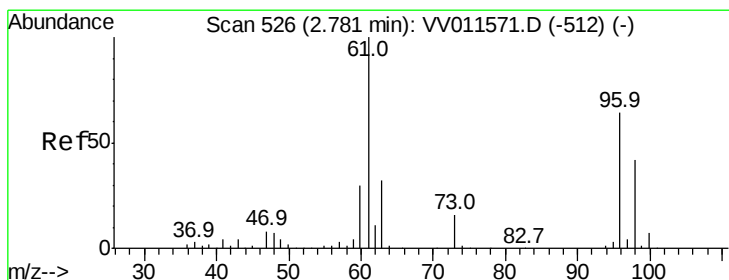
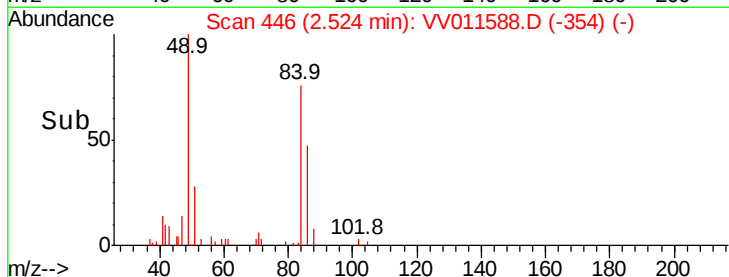
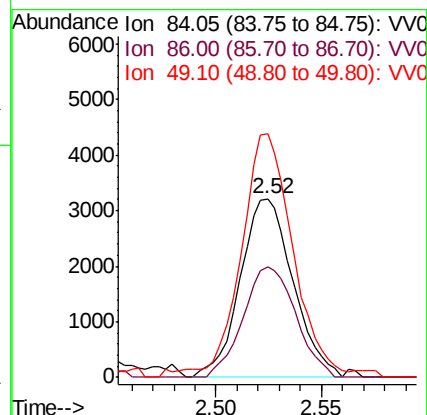
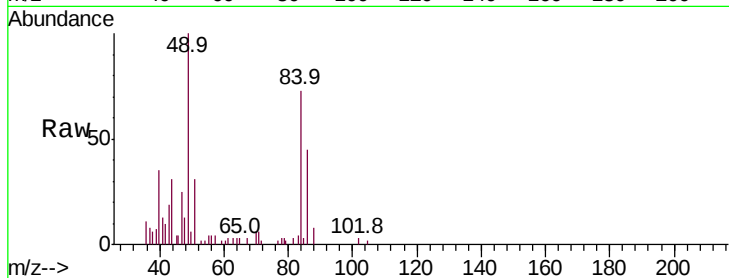




#16
Methvlene chloride
Concen: 0.549 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV011588.D
Acq: 18 Jun 2019 21:13

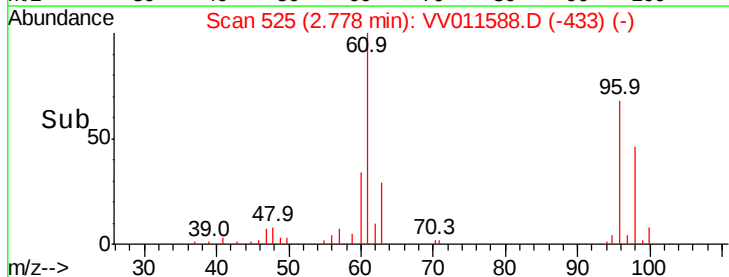
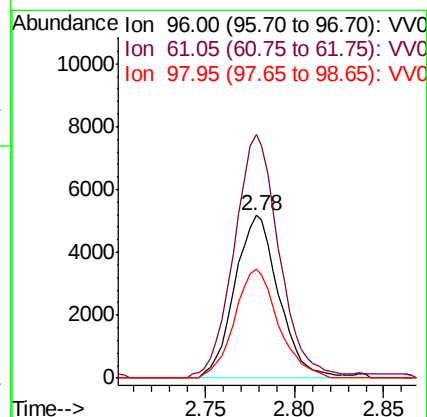
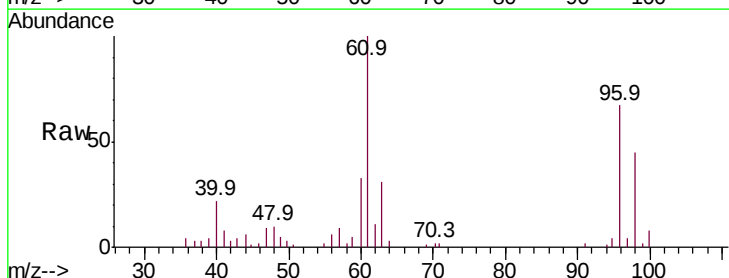
Instrument :
MSVOA_V
ClientSampleId :
BFCQ6

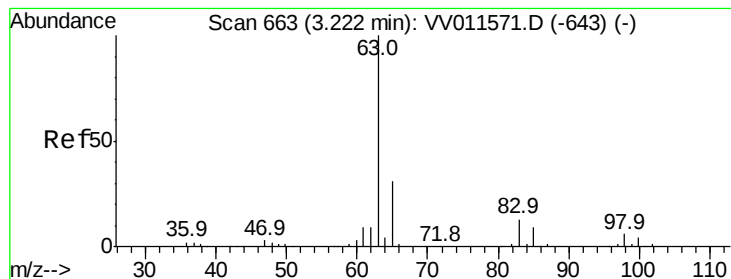
Tot Ion: 84 Resp: 5600
Ion Ratio Lower Upper
84 100
86 61.6 42.5 78.9
49 136.1 97.7 181.5



#18
trans-1,2-Dichloroethene
Concen: 0.879 ug/L
RT: 2.78 min Scan# 525
Delta R.T. -0.00 min
Lab File: VV011588.D
Acq: 18 Jun 2019 21:13

Tgt Ion: 96 Resp: 8916
Ion Ratio Lower Upper
96 100
61 149.6 110.0 204.4
98 66.8 45.8 85.0





#19

1,1-Dichloroethane

Concen: 168.956 ug/L

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

BFCQ6

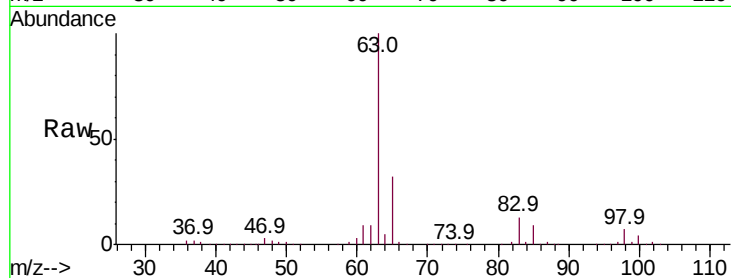
Tot Ion: 63 Resp: 3546054

Ion Ratio Lower Upper

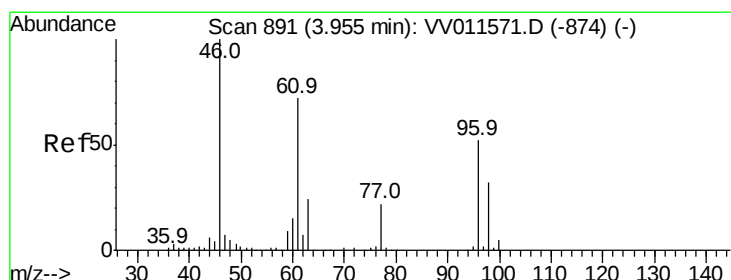
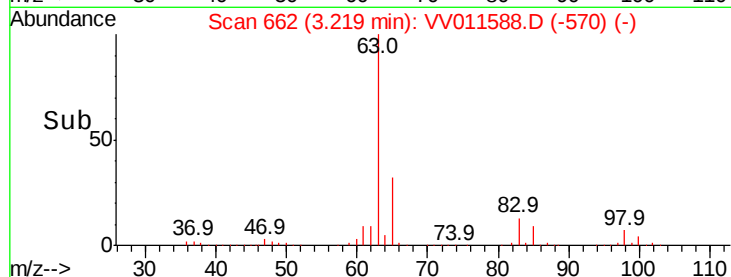
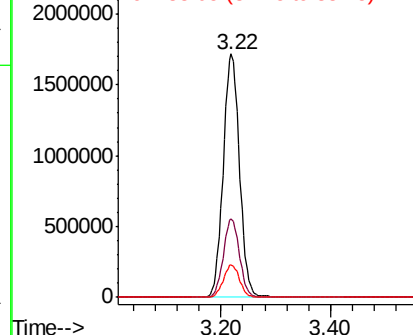
63 100

65 32.4 22.5 41.9

83 13.5 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



#22

cis-1,2-Dichloroethene

Concen: 176.018 ug/L

RT: 3.95 min Scan# 890

Delta R.T. -0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

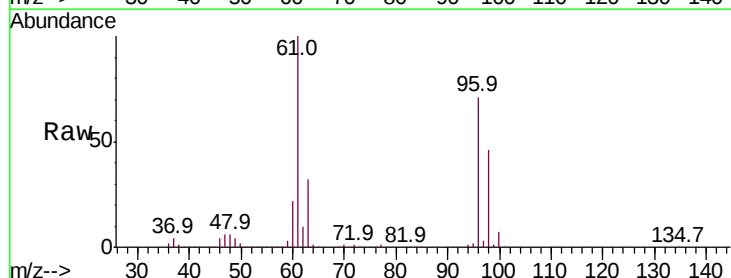
Tgt Ion: 96 Resp: 2023111

Ion Ratio Lower Upper

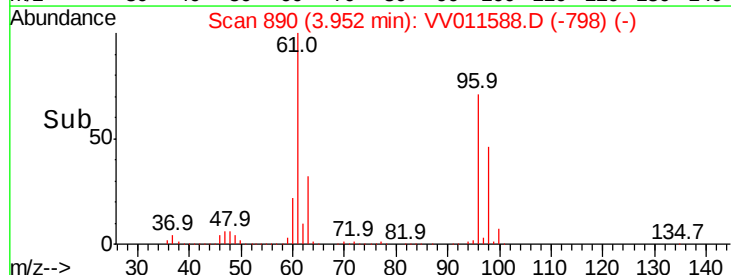
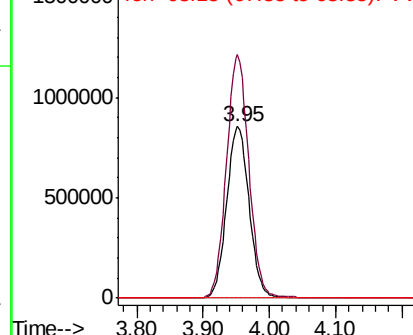
96 100

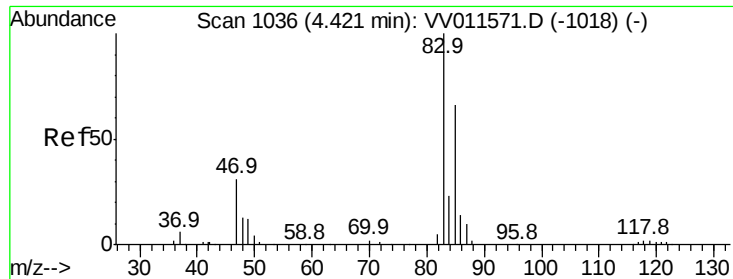
61 141.8 102.2 189.8

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

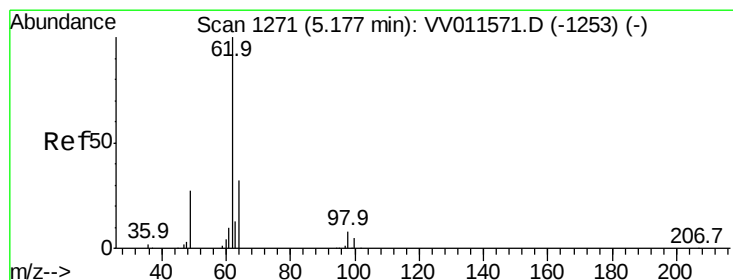
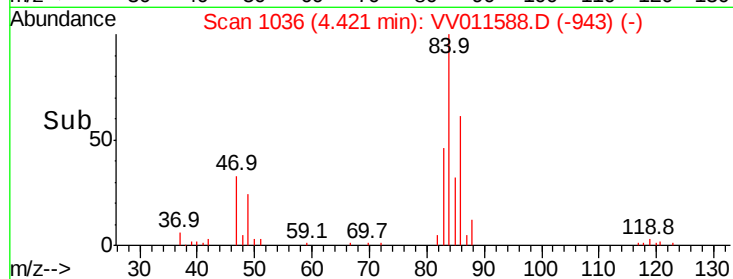
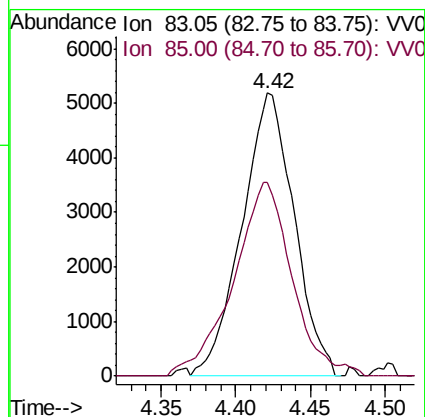
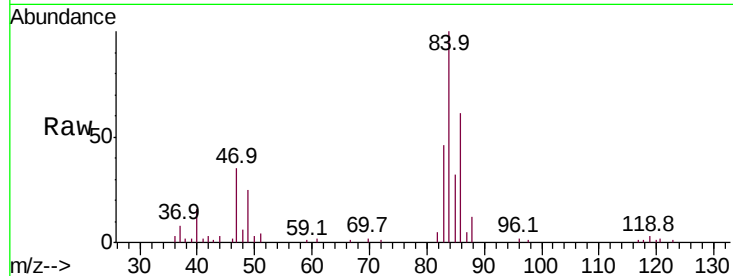




#25
Chloroform
Concen: 0.600 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV011588.D
Acq: 18 Jun 2019 21:13

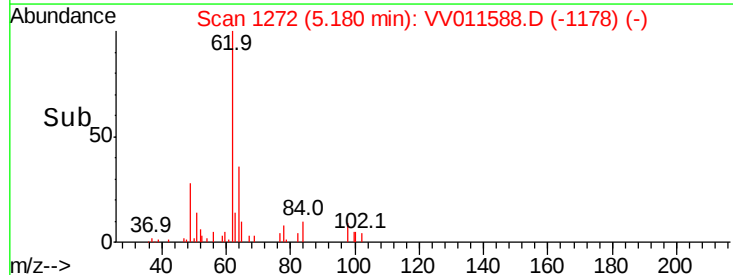
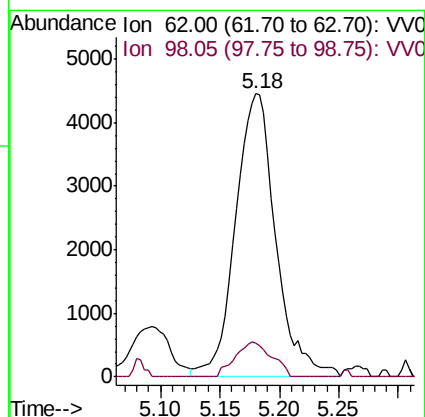
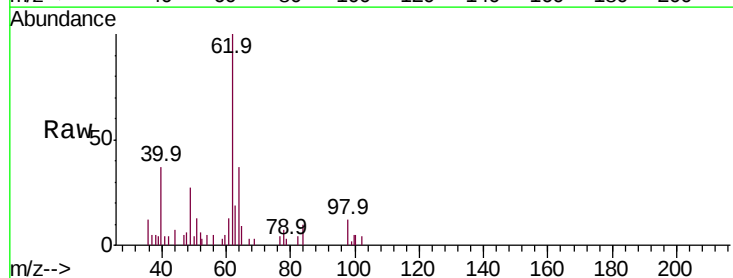
Instrument :
MSVOA_V
ClientSampleId :
BFCQ6

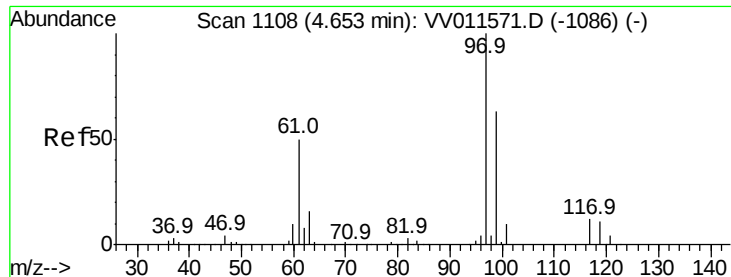
Tot Ion: 83 Resp: 12628
Ion Ratio Lower Upper
83 100
85 68.4 44.6 82.8



#27
1,2-Dichloroethane
Concen: 0.703 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV011588.D
Acq: 18 Jun 2019 21:13

Tgt Ion: 62 Resp: 10438
Ion Ratio Lower Upper
62 100
98 12.0 6.5 9.7#



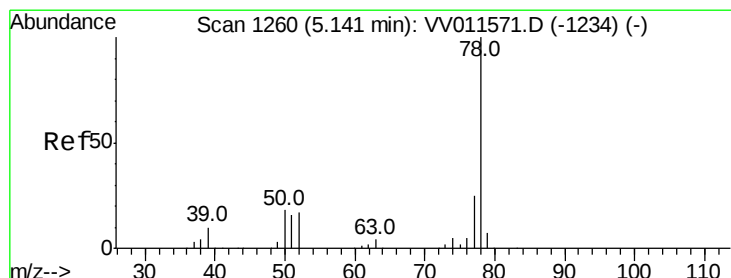
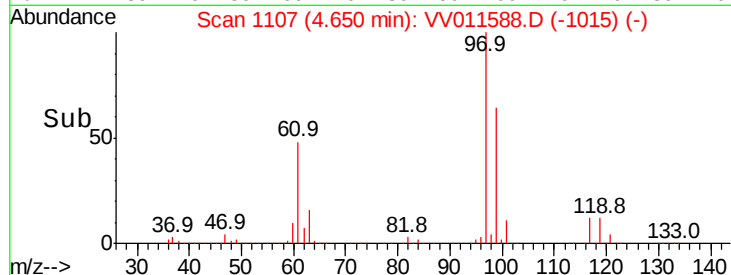
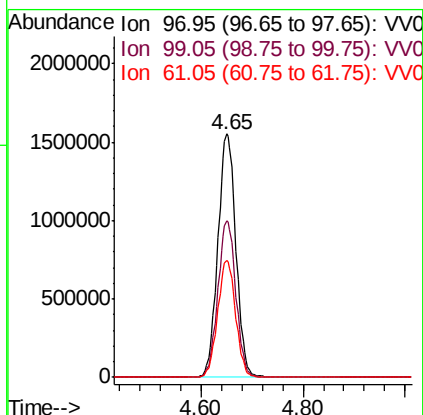
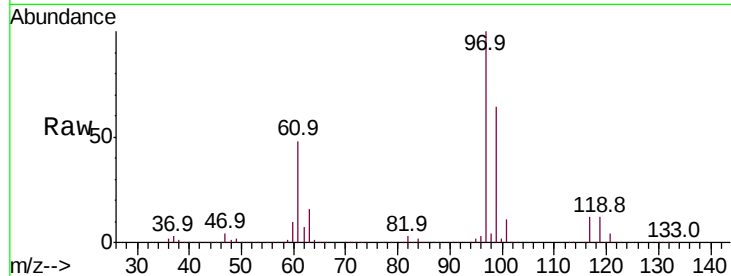


#29
 1,1,1-Trichloroethane
 Concen: 218.855 ug/L
 RT: 4.65 min Scan# 1107
 Delta R.T. -0.00 min
 Lab File: VV011588.D
 Acq: 18 Jun 2019 21:13

Instrument :
 MSVOA_V
 ClientSampleId :
 BFCQ6

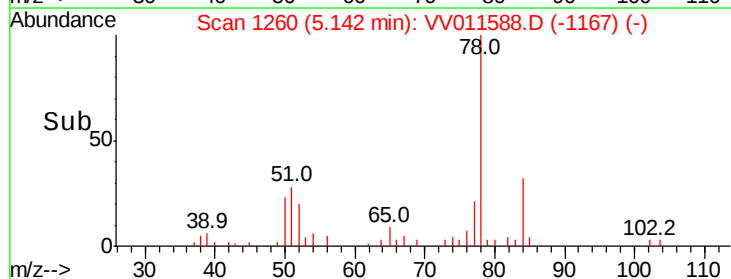
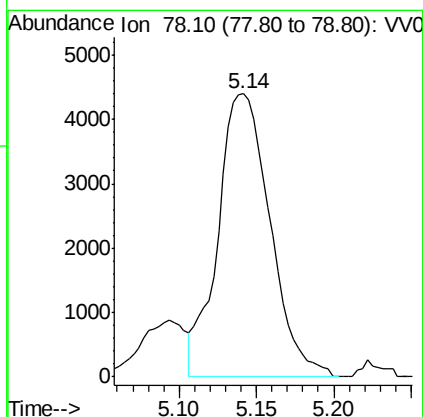
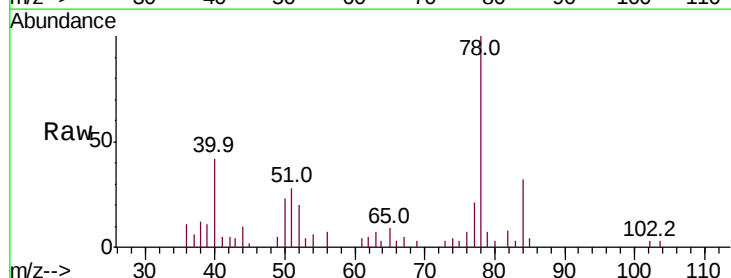
Tot Ion: 97 Resp: 3798979

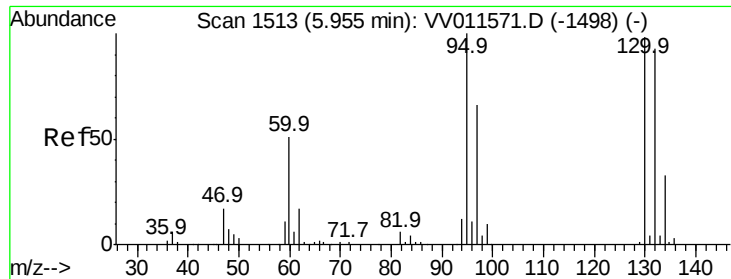
Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.6	77.4
61	47.9	40.4	60.6



#33
 Benzene
 Concen: 0.226 ug/L
 RT: 5.14 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VV011588.D
 Acq: 18 Jun 2019 21:13

Tgt Ion: 78 Resp: 10303





#34

Trichloroethene

Concen: 147.508 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :

MSVOA_V

ClientSampled :

BFCQ6

Tot Ion: 95 Resp: 1714161

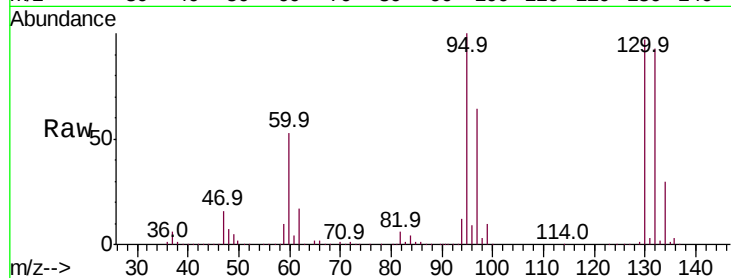
Ion Ratio Lower Upper

95 100

97 64.3 44.4 82.4

132 93.1 63.5 117.9

130 96.7 68.5 127.3

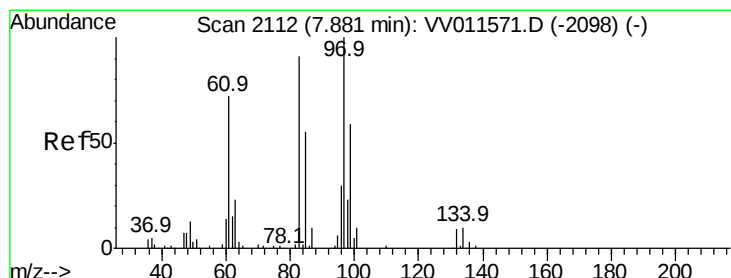
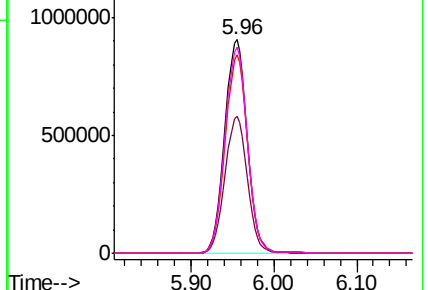
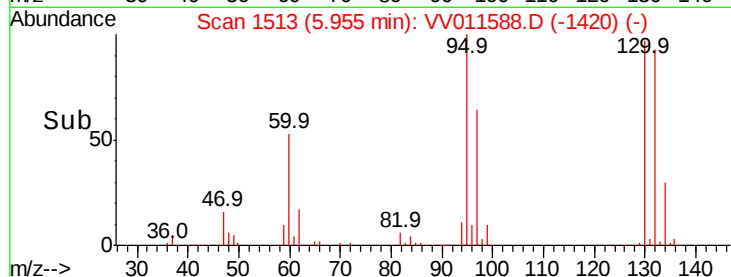


Abundance Ion 95.00 (94.70 to 95.70): VV011571.D (-1498) (-)

Ion 96.95 (96.65 to 97.65): VV011571.D (-1498) (-)

Ion 131.95 (131.65 to 132.65): VV011571.D (-1498) (-)

Ion 129.95 (129.65 to 130.65): VV011571.D (-1498) (-)



#45

1,1,2-Trichloroethane

Concen: 0.742 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Tgt Ion: 97 Resp: 6005

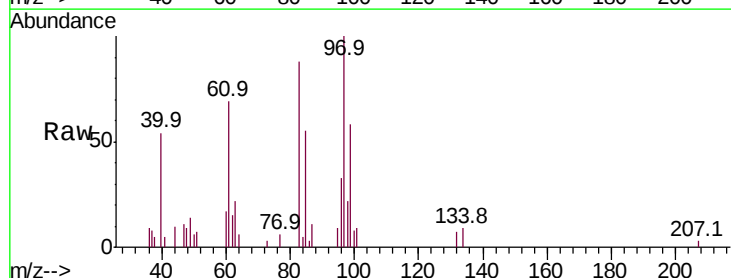
Ion Ratio Lower Upper

97 100

99 58.4 45.4 84.4

83 87.9 60.6 112.6

85 54.8 38.6 71.6

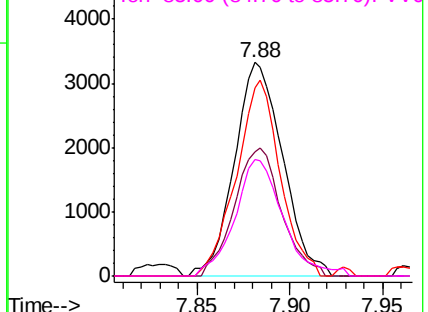
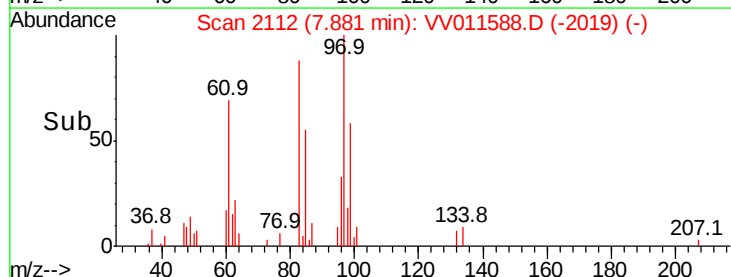


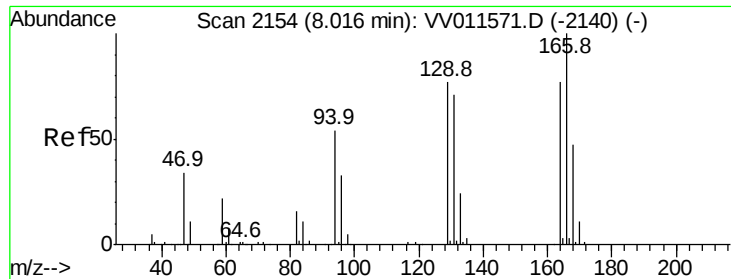
Abundance Ion 96.95 (96.65 to 97.65): VV011571.D (-2098) (-)

Ion 99.05 (98.75 to 99.75): VV011571.D (-2098) (-)

Ion 82.95 (82.65 to 83.65): VV011571.D (-2098) (-)

Ion 85.00 (84.70 to 85.70): VV011571.D (-2098) (-)





#47

Tetrachloroethene

Concen: 36.986 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV011588.D

Acq: 18 Jun 2019 21:13

Instrument :
MSVOA_V
ClientSampleId :
BFCQ6

Tot Ion:164 Resp: 306513

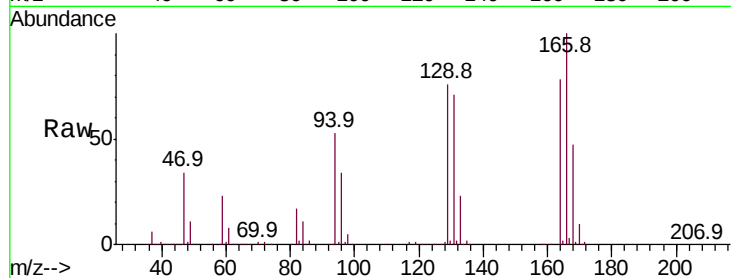
Ion Ratio Lower Upper

164 100

129 97.4 68.8 127.8

131 91.5 63.2 117.4

166 128.3 87.0 161.6



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

