

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092718\
 Data File : VV007908.D
 Acq On : 27 Sep 2018 15:18
 Operator : SY/MD
 Sample : J5011-02
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 28 00:45:09 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	96098	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	91039	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	45859	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	21644	4.20	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.00%
7) Chloroethane-d5	1.59	69	19861	4.46	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.20%
11) 1,1-Dichloroethene-d2	2.14	63	36817	3.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.20%
20) 2-Butanone-d5	3.96	46	61108	39.44	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	78.88%
24) Chloroform-d	4.41	84	48113	4.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.00%
26) 1,2-Dichloroethane-d4	5.09	65	27288	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
32) Benzene-d6	5.10	84	95598	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.00%
36) 1,2-Dichloropropane-d6	6.12	67	29857	4.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.60%
41) Toluene-d8	7.36	98	91908	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.00%
43) trans-1,3-Dichloropropene-	7.67	79	9980	3.76	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.20%
46) 2-Hexanone-d5	8.14	63	44402	37.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.84%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	21225	3.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.80%
64) 1,2-Dichlorobenzene-d4	11.68	152	38686	4.36	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.33	62	4462	0.581	ug/L	84
8) Chloroethane	1.33	64	1872	0.404	ug/L	86
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2484	0.349	ug/L #	83
12) 1,1-Dichloroethene	2.14	96	1164	0.183	ug/L #	1
13) Acetone	2.20	43	3185	2.821	ug/L	95
19) 1,1-Dichloroethane	3.23	63	9138	0.765	ug/L	96
22) cis-1,2-Dichloroethene	3.97	96	45194	6.374	ug/L	100
29) 1,1,1-Trichloroethane	4.66	97	15702	1.434	ug/L	99
31) Carbon tetrachloride	4.66	117	1979	0.205	ug/L	97
34) Trichloroethene	5.96	95	18997	2.545	ug/L	99
35) Methylcyclohexane	6.12	83	7353	0.657	ug/L #	20
37) 1,2-Dichloropropane	6.12	63	3637	0.546	ug/L #	87
39) cis-1,3-Dichloropropene	7.04	75	727	0.082	ug/L #	47
42) Toluene	7.44	91	3170	0.112	ug/L	94
47) Tetrachloroethene	8.02	164	2043	0.295	ug/L	94
48) 2-Hexanone	8.14	43	7363	2.533	ug/L #	71
49) Dibromochloromethane	8.02	129	1926	0.351	ug/L #	12

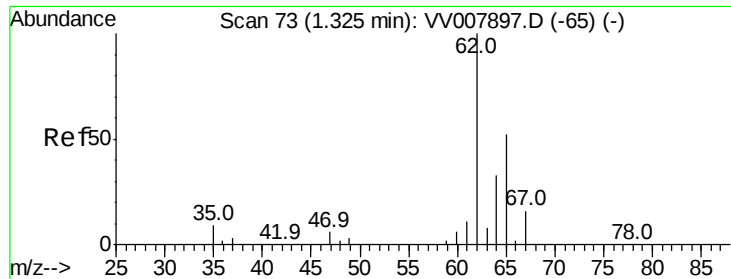
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092718\
Data File : VV007908.D
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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 28 00:42:21 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	9.06	91	2795	0.088	ug/L	91
53) m,p-xylene	9.18	106	2053	0.170	ug/L	90
54) o-xylene	9.59	106	1250	0.107	ug/L	74

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



#5

Vinyl chloride

Concen: 0.581 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

Instrument :

MSVOA_V

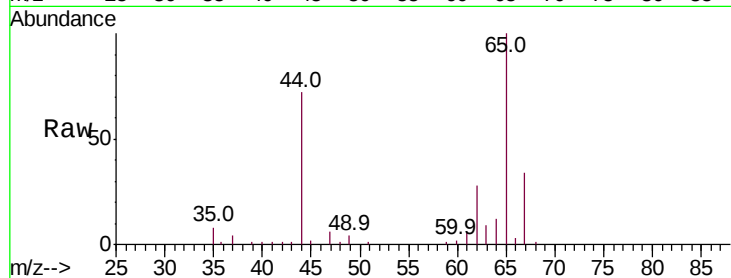
ClientSampleId :

Tot Ion: 62 Resp: 4462

Ion Ratio Lower Upper

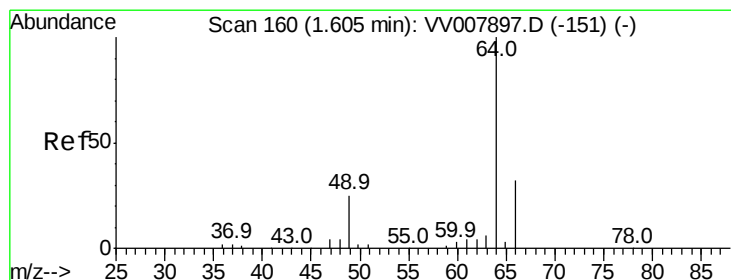
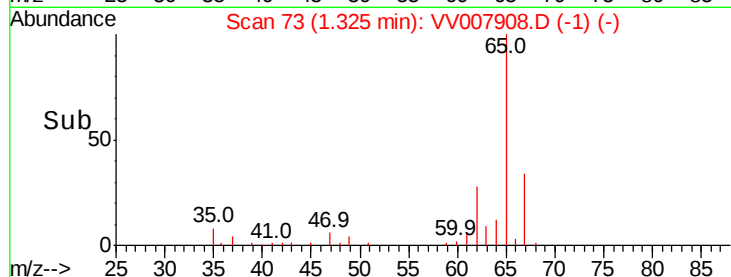
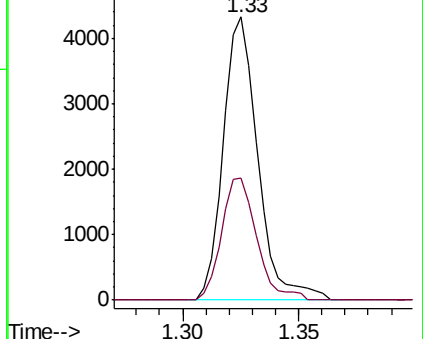
62 100

64 43.3 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: 0.404 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.28 min

Lab File: VV007908.D

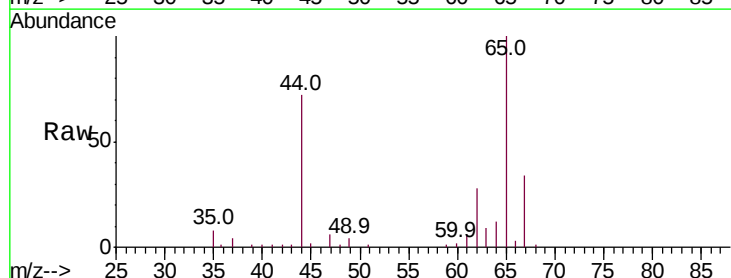
Acq: 27 Sep 2018 15:18

Tgt Ion: 64 Resp: 1872

Ion Ratio Lower Upper

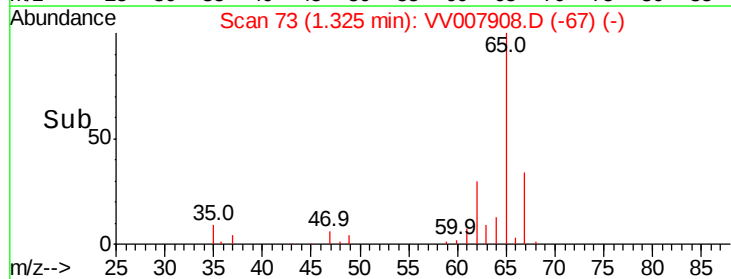
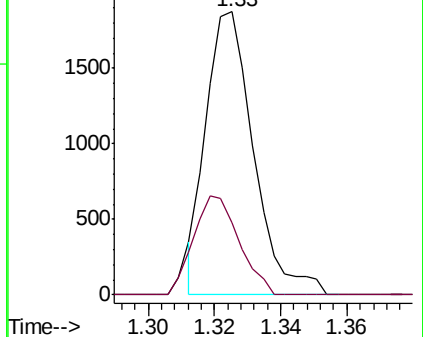
64 100

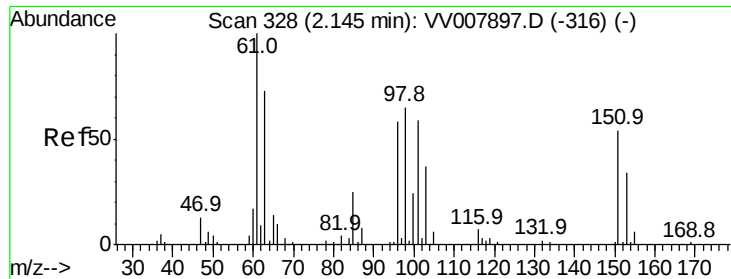
66 25.3 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#10

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

Concen: 0.349 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

Instrument :

MSVOA_V

ClientSampleId :

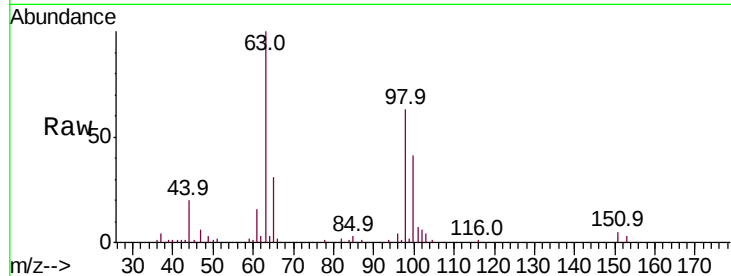
Tot Ion:101 Resp: 2484

Ion Ratio Lower Upper

101 100

85 38.7 34.7 52.1

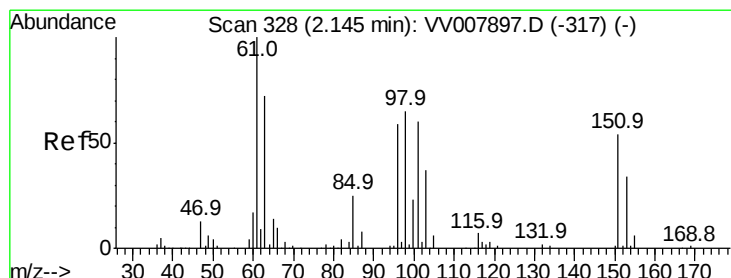
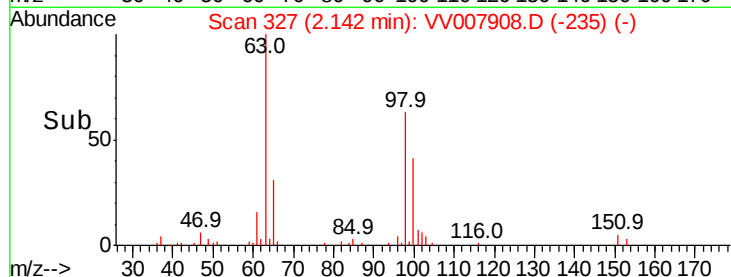
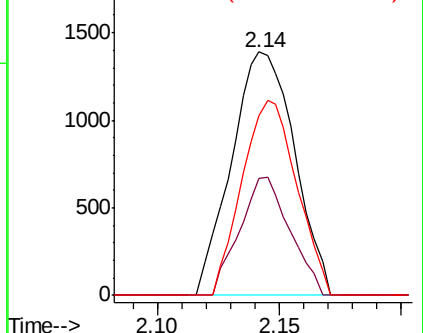
151 69.6 72.2 108.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.183 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

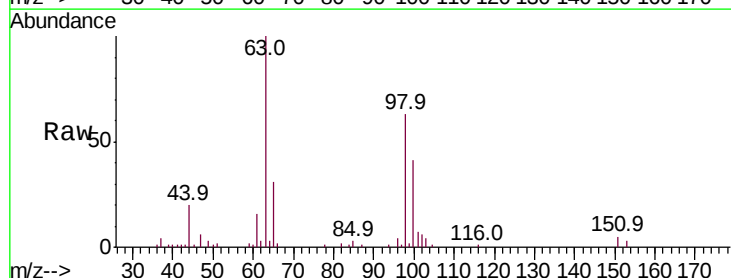
Tgt Ion: 96 Resp: 1164

Ion Ratio Lower Upper

96 100

61 447.7 114.1 211.9#

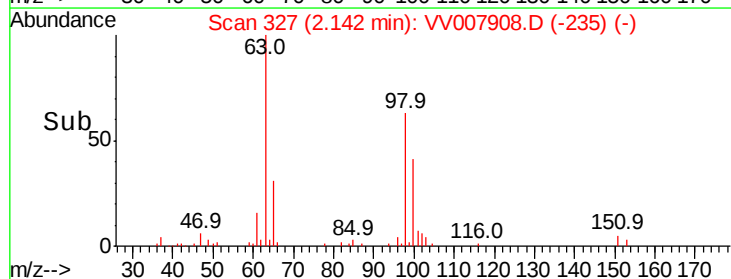
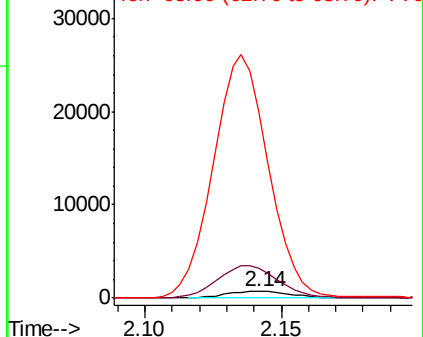
63 2766.2 81.5 151.3#

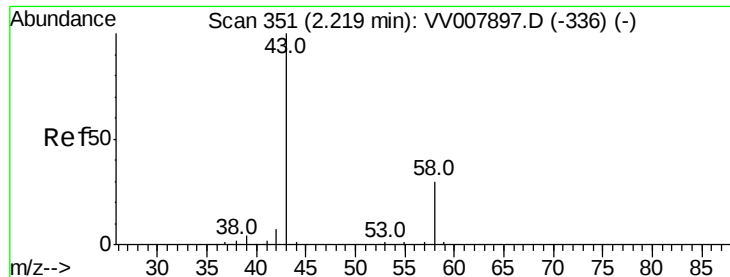


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 2.821 ug/L

RT: 2.20 min Scan# 346

Delta R.T. -0.02 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

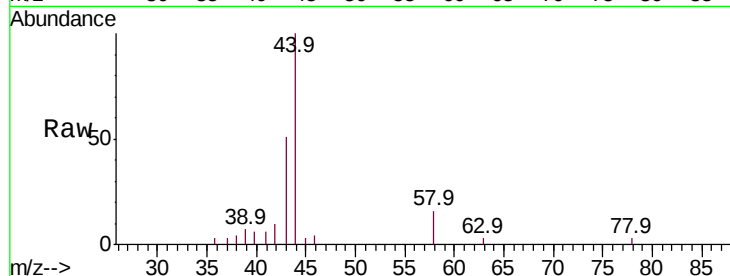
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 3185

Ion Ratio Lower Upper

43 100

58 28.1 0.0 62.0



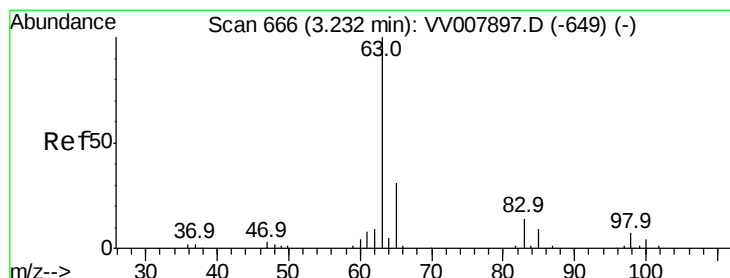
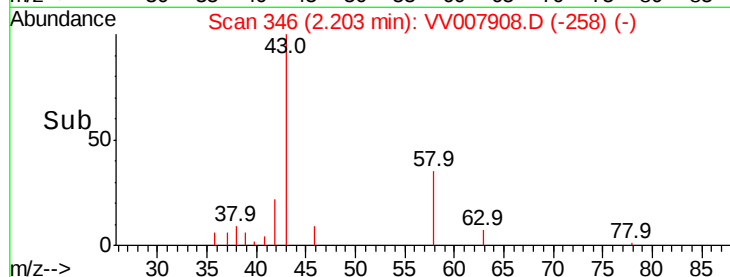
Abundance Ion 43.05 (42.75 to 43.75): VV007897.D (-336) (-)

Ion 58.05 (57.75 to 58.75): VV007897.D (-336) (-)

2.20

2.15 2.20 2.25 2.30

Time-->



#19

1,1-Dichloroethane

Concen: 0.765 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

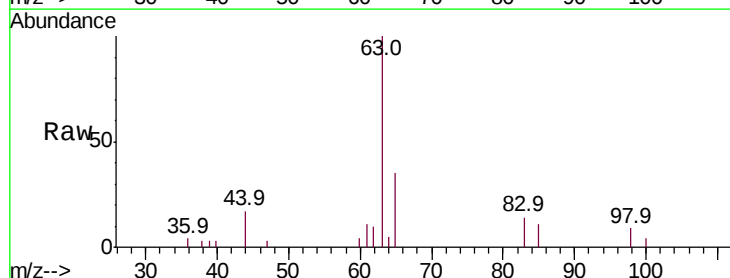
Tgt Ion: 63 Resp: 9138

Ion Ratio Lower Upper

63 100

65 35.3 22.3 41.5

83 14.0 9.8 18.2



Abundance Ion 63.10 (62.80 to 63.80): VV007897.D (-649) (-)

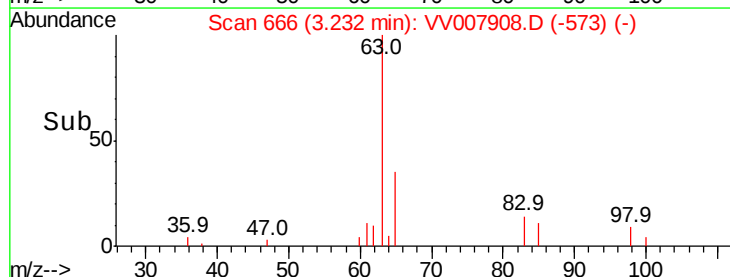
Ion 65.10 (64.80 to 65.80): VV007897.D (-649) (-)

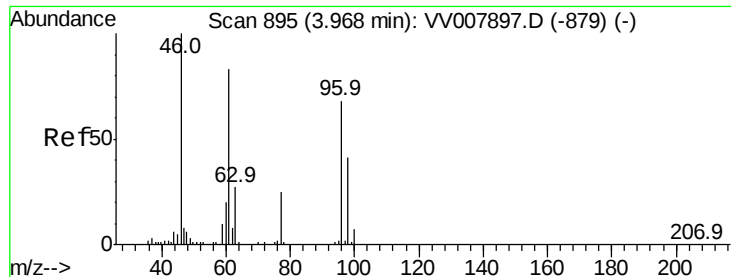
Ion 83.05 (82.75 to 83.75): VV007897.D (-649) (-)

3.23

3.15 3.20 3.25 3.30

Time-->





#22

cis-1,2-Dichloroethene

Concen: 6.374 ug/L

RT: 3.97 min Scan# 895

Delta R.T. 0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

Instrument :
MSVOA_V
ClientSampled :

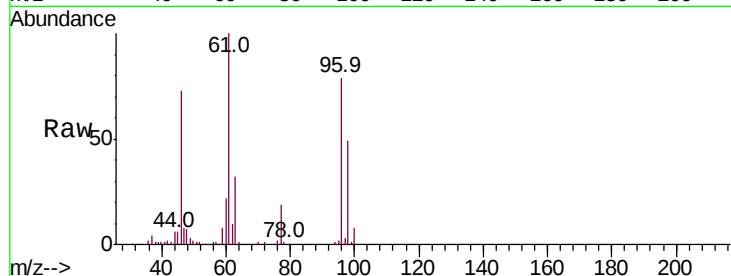
Tot Ion: 96 Resp: 45194

Ion Ratio Lower Upper

96 100

61 127.3 89.5 166.1

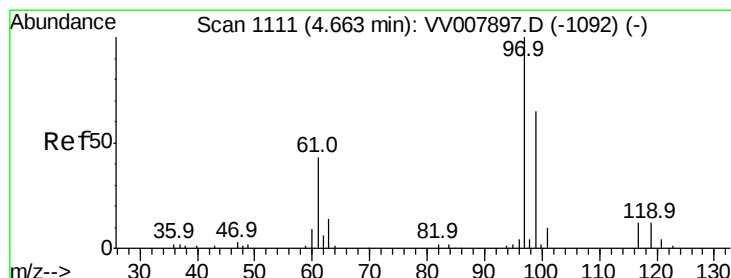
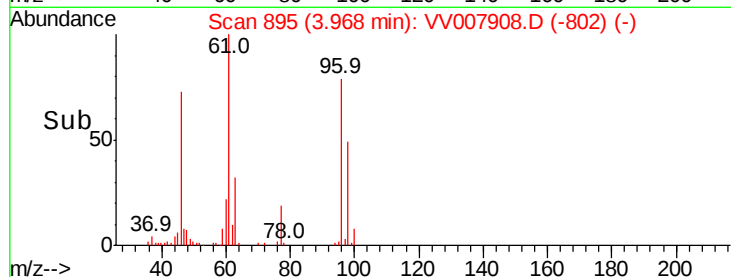
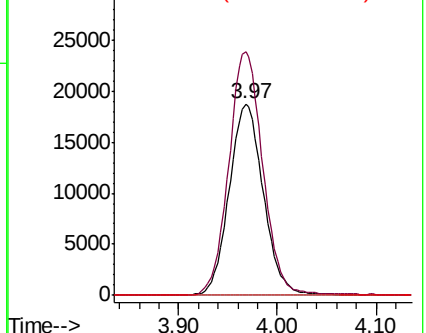
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV007897.D (-879) (-)

Ion 61.05 (60.75 to 61.75): VV007897.D (-879) (-)

Ion 68.15 (67.85 to 68.85): VV007897.D (-879) (-)



#29

1,1,1-Trichloroethane

Concen: 1.434 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

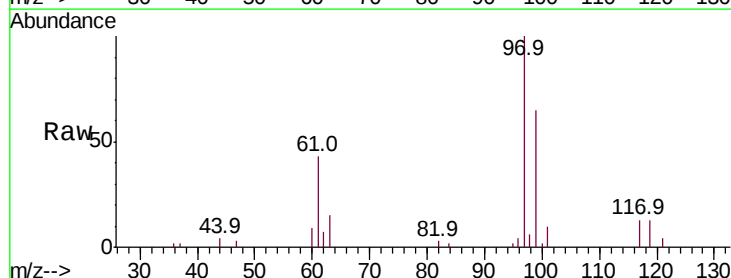
Tgt Ion: 97 Resp: 15702

Ion Ratio Lower Upper

97 100

99 64.6 51.2 76.8

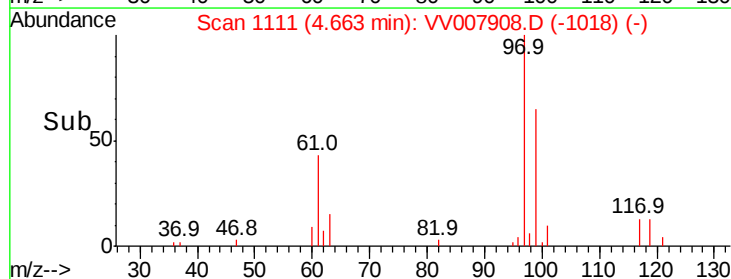
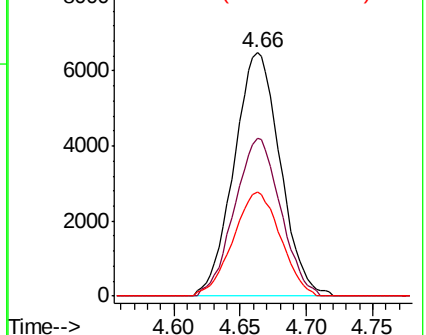
61 43.7 34.6 52.0

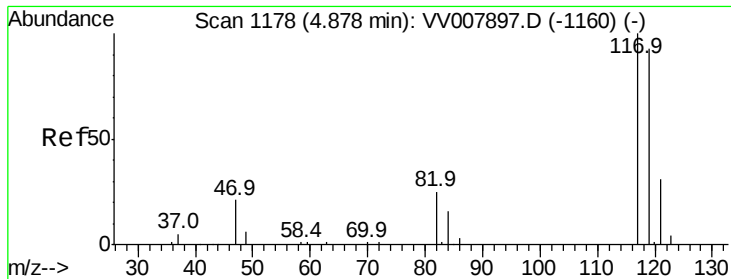


Abundance Ion 96.95 (96.65 to 97.65): VV007897.D (-1092) (-)

Ion 99.05 (98.75 to 99.75): VV007897.D (-1092) (-)

Ion 61.05 (60.75 to 61.75): VV007897.D (-1092) (-)





#31

Carbon tetrachloride

Concen: 0.205 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.22 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

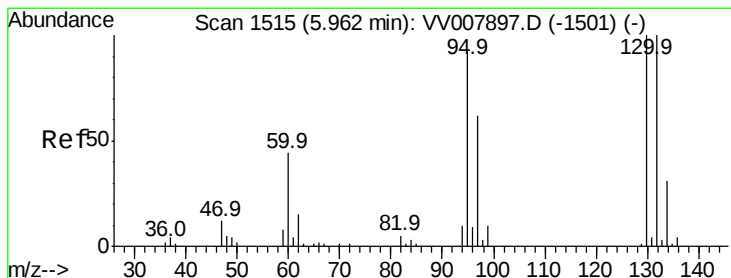
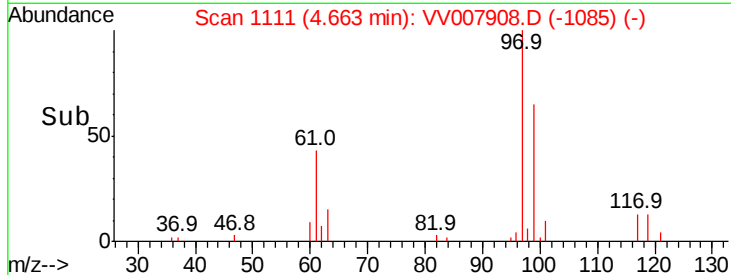
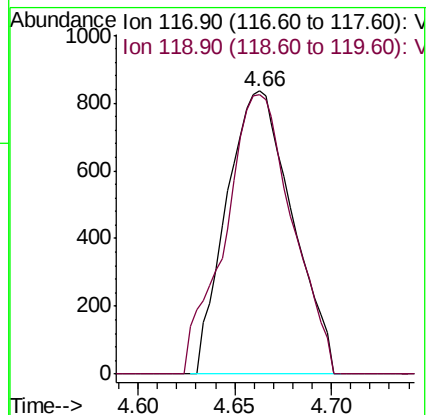
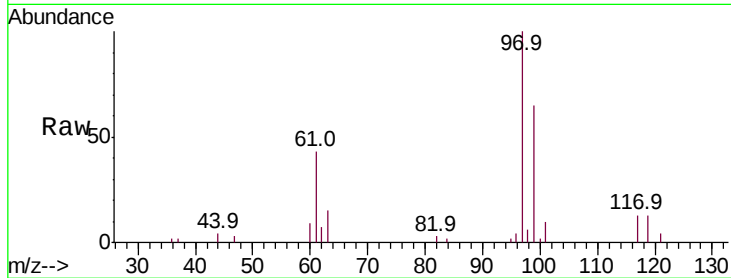
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:117 Resp: 1979

Ion Ratio Lower Upper

117 100

119 100.7 77.8 116.8



#34

Trichloroethene

Concen: 2.545 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

Tgt Ion: 95 Resp: 18997

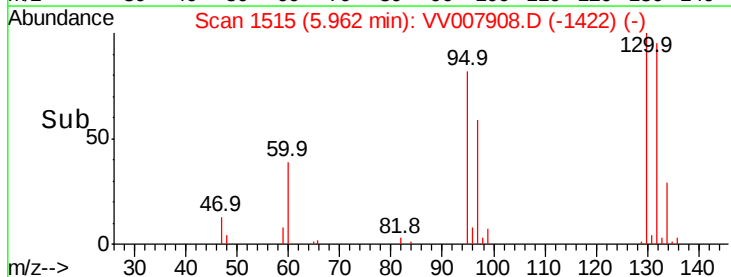
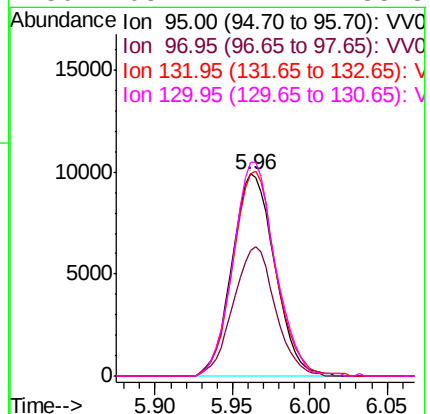
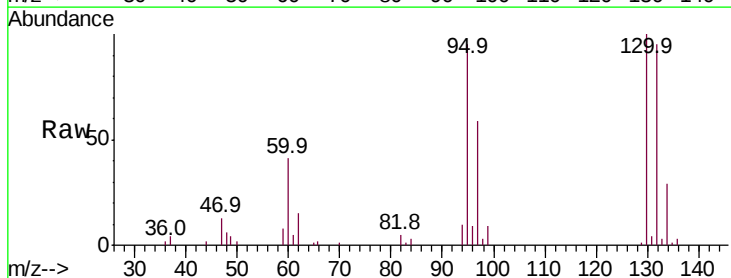
Ion Ratio Lower Upper

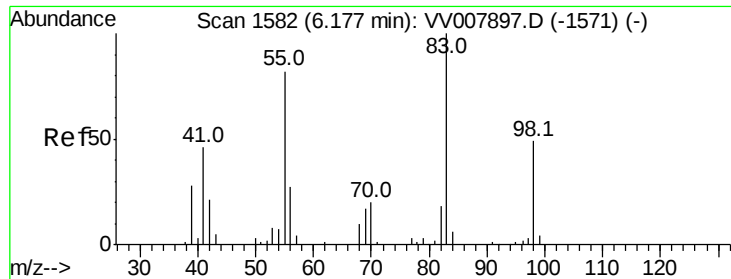
95 100

97 62.2 43.6 81.0

132 100.4 69.9 129.9

130 105.7 71.7 133.3

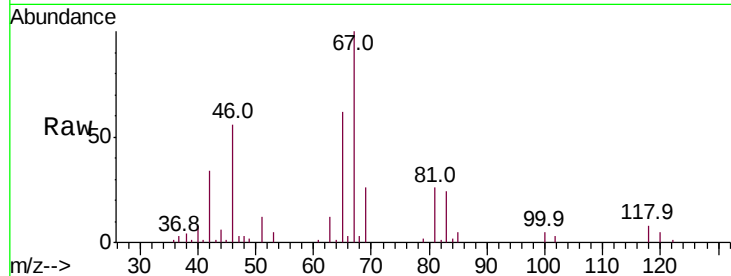




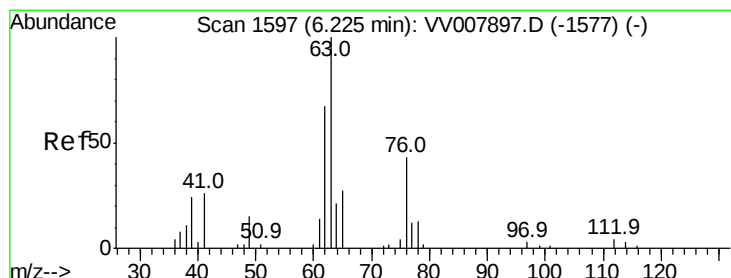
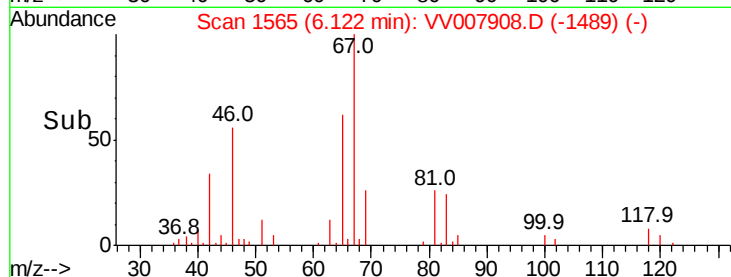
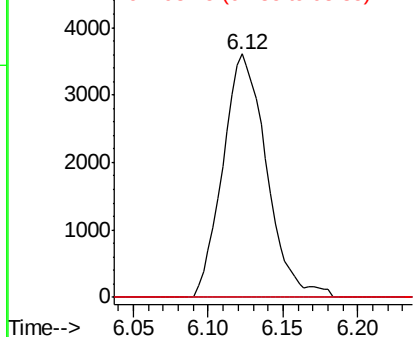
#35
Methvlcvclohexane
Concen: 0.657 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.05 min
Lab File: VV007908.D
Acq: 27 Sep 2018 15:18

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 7353
Ion Ratio Lower Upper
83 100
55 0.0 62.2 93.2#
98 3.5 38.0 57.0#

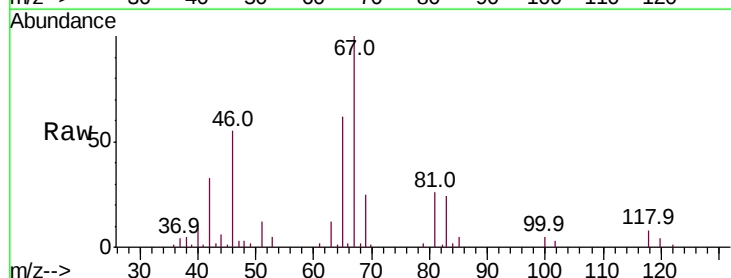


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

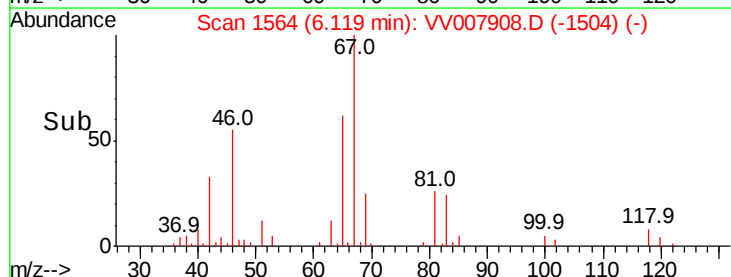
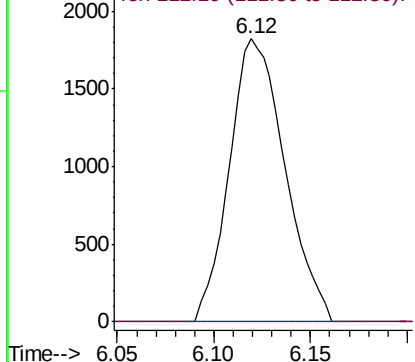


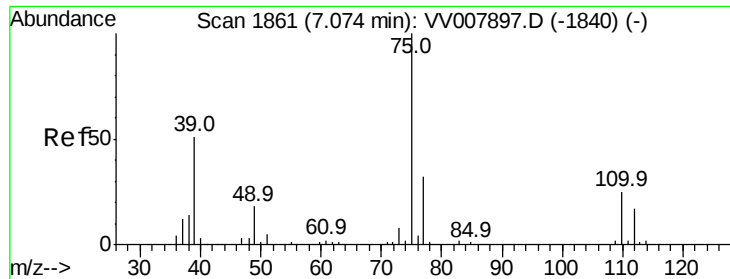
#37
1,2-Dichloropropane
Concen: 0.546 ug/L
RT: 6.12 min Scan# 1564
Delta R.T. -0.11 min
Lab File: VV007908.D
Acq: 27 Sep 2018 15:18

Tgt Ion: 63 Resp: 3637
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: 0.082 ug/L

RT: 7.04 min Scan# 1849

Delta R.T. -0.04 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

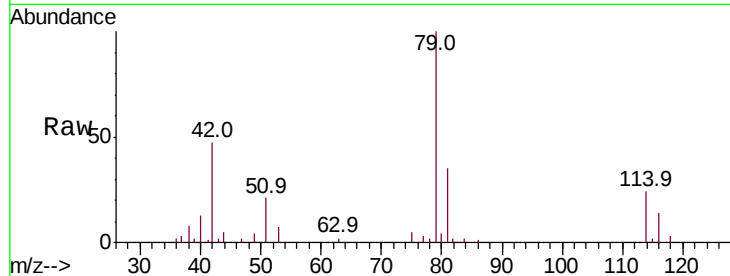
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 75 Resp: 727

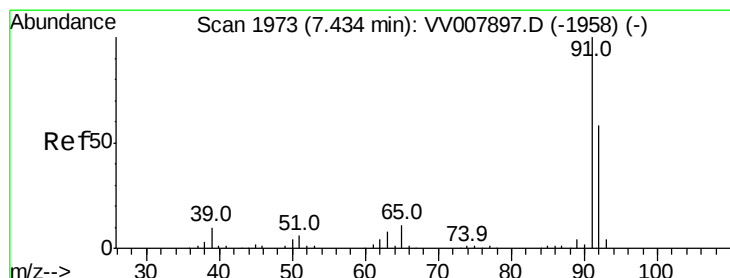
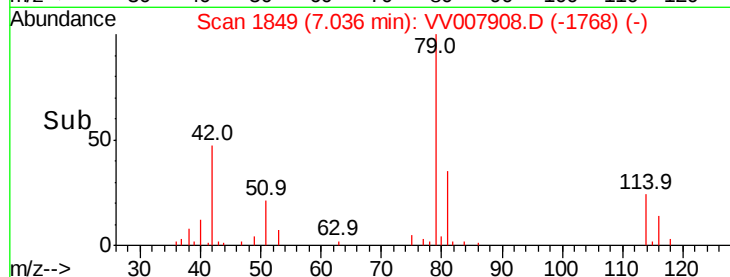
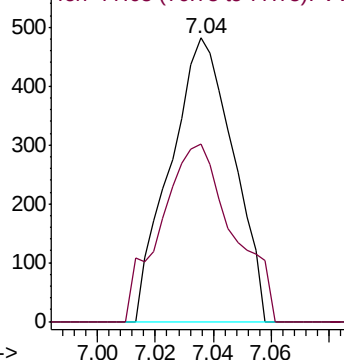
Ion Ratio Lower Upper

75 100

77 62.4 22.9 42.5#



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0



#42

Toluene

Concen: 0.112 ug/L

RT: 7.44 min Scan# 1975

Delta R.T. 0.01 min

Lab File: VV007908.D

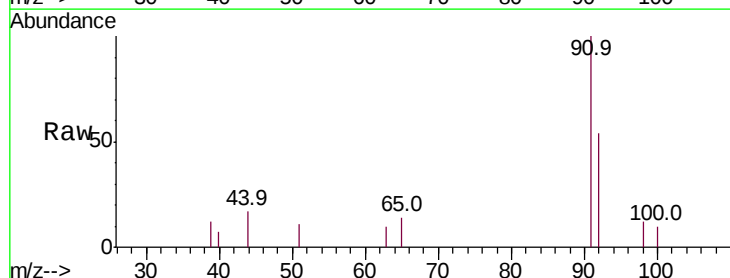
Acq: 27 Sep 2018 15:18

Tgt Ion: 91 Resp: 3170

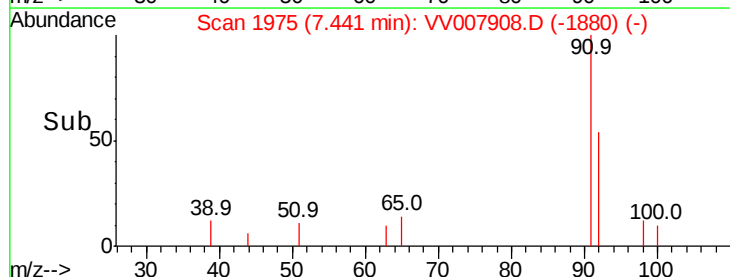
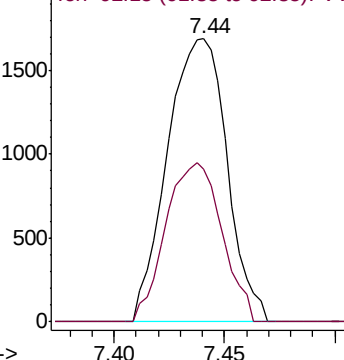
Ion Ratio Lower Upper

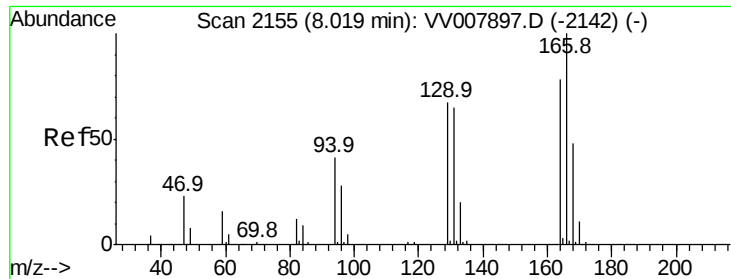
91 100

92 54.1 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 92.15 (91.85 to 92.85): VV0





#47

Tetrachloroethene

Concen: 0.295 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:164 Resp: 2043

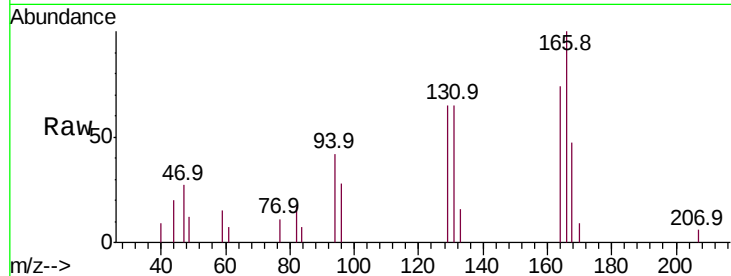
Ion Ratio Lower Upper

164 100

129 87.3 59.2 110.0

131 88.2 57.1 106.1

166 135.0 88.6 164.6

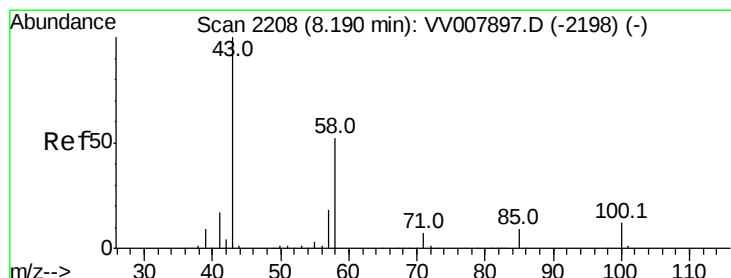
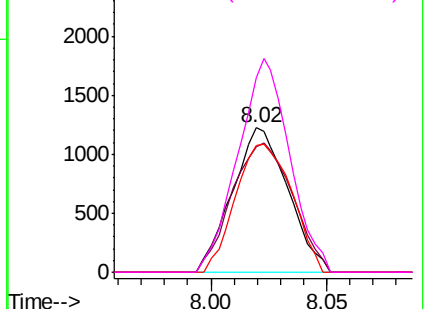
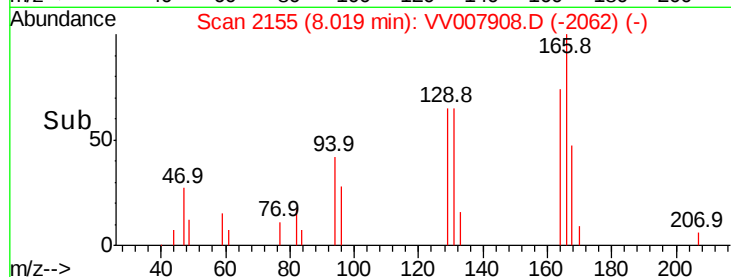


Abundance Ion 163.90 (163.60 to 164.60): V

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: 2.533 ug/L

RT: 8.14 min Scan# 2194

Delta R.T. -0.04 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

Tgt Ion: 43 Resp: 7363

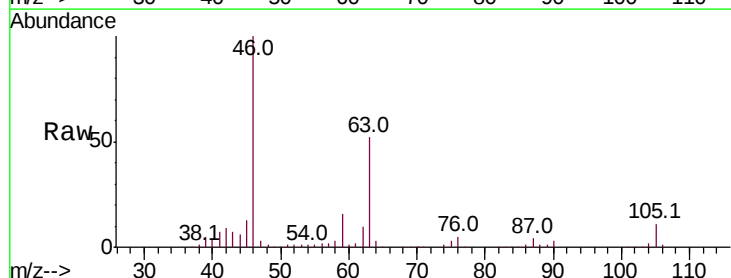
Ion Ratio Lower Upper

43 100

58 30.4 41.9 62.9#

57 27.0 14.3 21.5#

100 0.0 9.2 13.8#

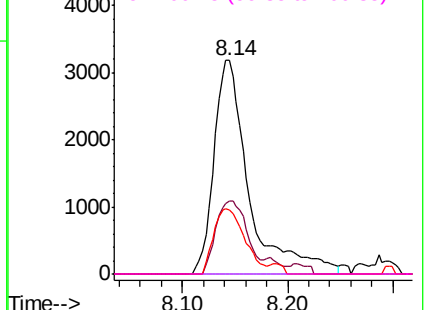
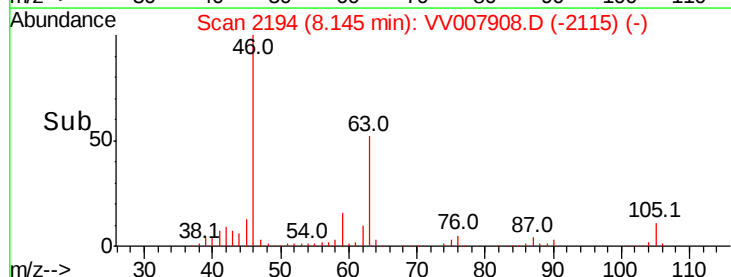


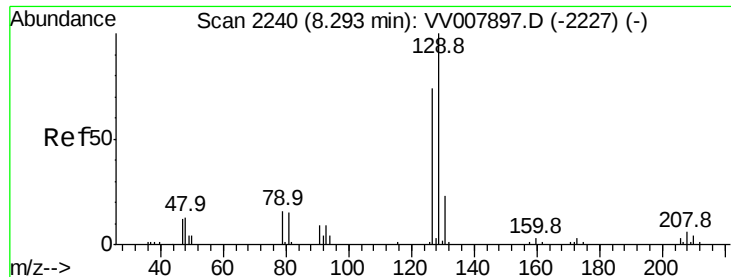
Abundance Ion 43.05 (42.75 to 43.75): VV0

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

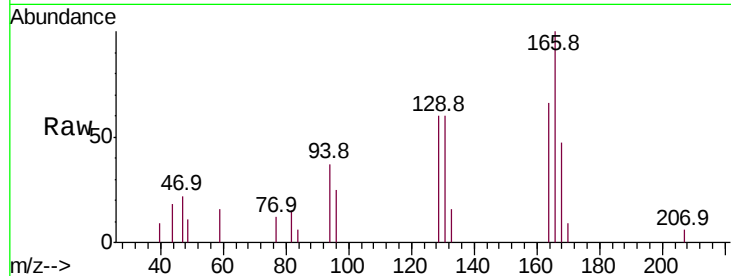




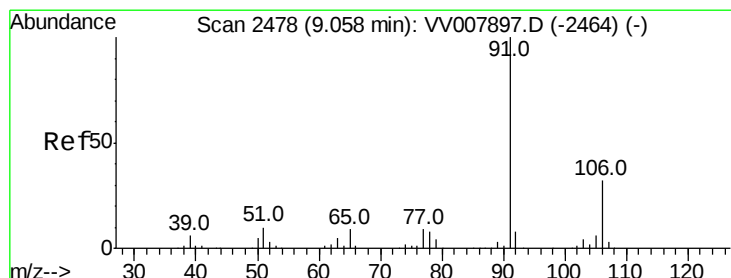
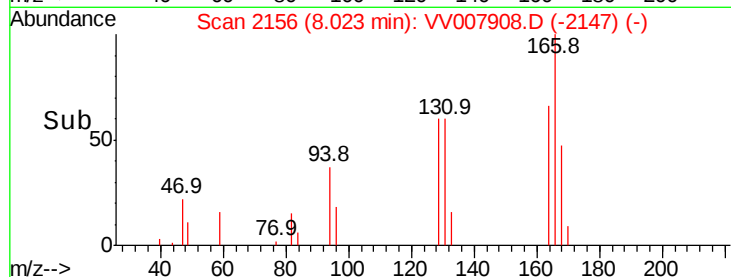
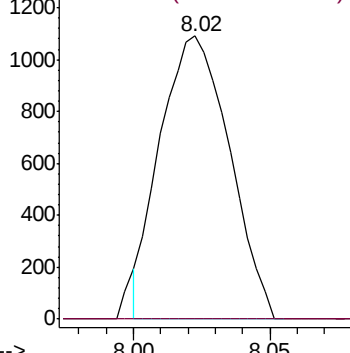
#49
Dibromochloromethane
Concen: 0.351 ug/L
RT: 8.02 min Scan# 2156
Delta R.T. -0.27 min
Lab File: VV007908.D
Acq: 27 Sep 2018 15:18

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:129 Resp: 1926
Ion Ratio Lower Upper
129 100
127 0.0 53.1 98.5#

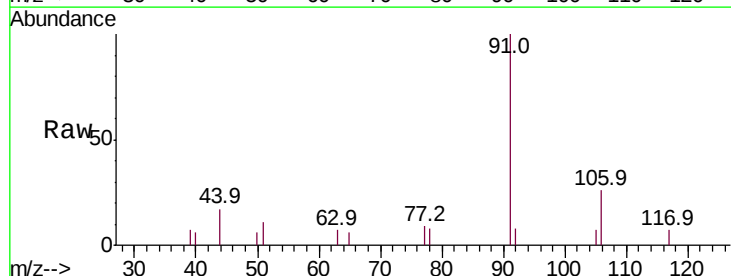


Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

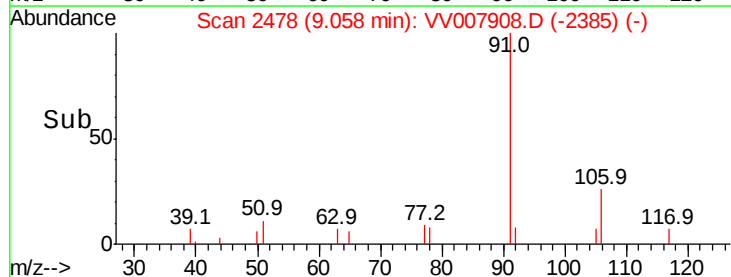
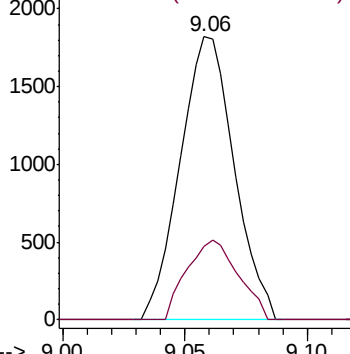


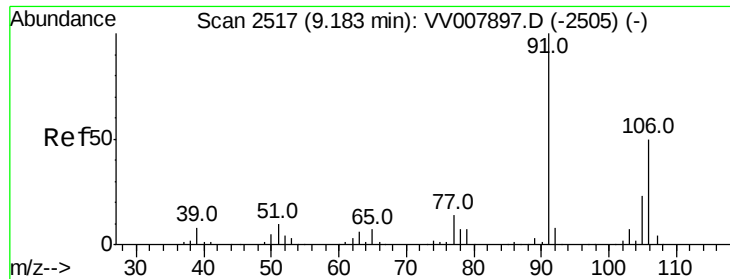
#52
Ethylbenzene
Concen: 0.088 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. 0.00 min
Lab File: VV007908.D
Acq: 27 Sep 2018 15:18

Tgt Ion: 91 Resp: 2795
Ion Ratio Lower Upper
91 100
106 25.8 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 106.15 (105.85 to 106.85): V





#53

m,p-xylene

Concen: 0.170 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV007908.D

Acq: 27 Sep 2018 15:18

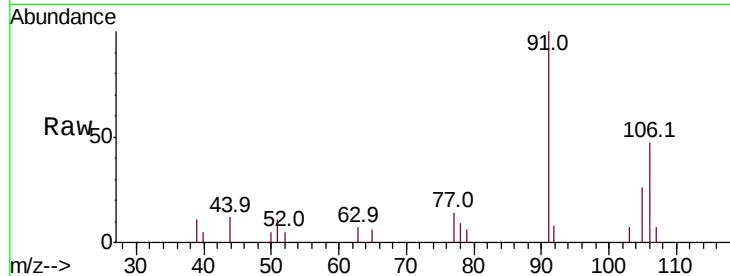
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 2053

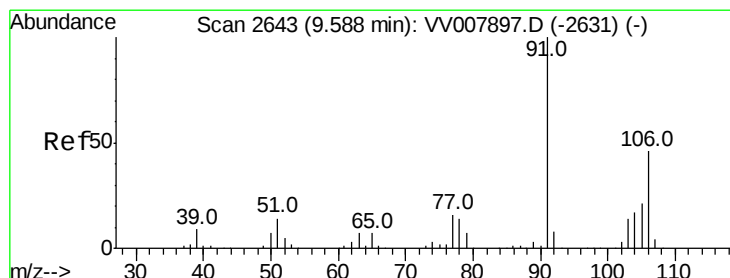
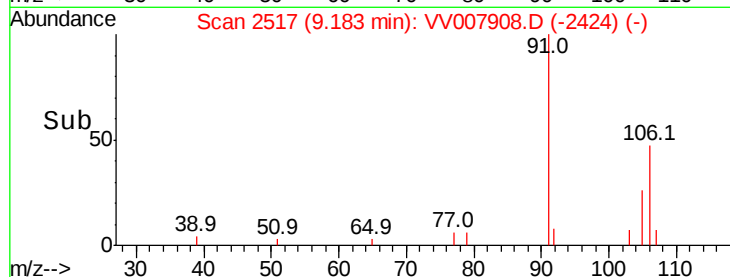
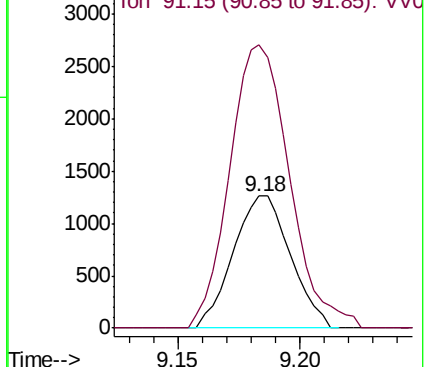
Ion Ratio Lower Upper

106 100

91 214.4 139.4 258.8



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 0.107 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV007908.D

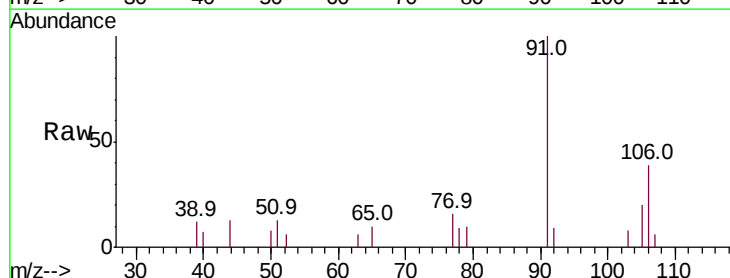
Acq: 27 Sep 2018 15:18

Tgt Ion:106 Resp: 1250

Ion Ratio Lower Upper

106 100

91 255.2 150.1 278.9



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

