

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081318\
 Data File : VV007004.D
 Acq On : 13 Aug 2018 14:15
 Operator : SY/MD
 Sample : J4451-23DL 4X
 Misc : 25 mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A4ZL3DL

Quant Time: Aug 14 06:39:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080918WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Aug 14 05:35:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	223716	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	217264	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	87868	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	56718	3.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.60%
7) Chloroethane-d5	1.58	69	52953	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.40%
11) 1,1-Dichloroethene-d2	2.13	63	82025	3.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.60%
20) 2-Butanone-d5	3.98	46	223137	53.73	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.46%
24) Chloroform-d	4.41	84	136380	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.20%
26) 1,2-Dichloroethane-d4	5.09	65	74101	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
32) Benzene-d6	5.10	84	257901	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
36) 1,2-Dichloropropane-d6	6.12	67	91983	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.40%
41) Toluene-d8	7.37	98	194015	4.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.80%
43) trans-1,3-Dichloropropene-	7.67	79	29440	4.43	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.60%
46) 2-Hexanone-d5	8.15	63	107406	39.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	79.14%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	70430	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.80%
64) 1,2-Dichlorobenzene-d4	11.68	152	72160	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
6) Bromomethane	1.54	94	2458	0.52 ug/L	81
13) Acetone	2.21	43	37515	17.54 ug/L	76
14) Carbon disulfide	2.32	76	88268	1.66 ug/L	100
15) Methyl Acetate	2.47	43	55626	9.24 ug/L	97
16) Methylene chloride	2.54	84	27571	1.42 ug/L	98
17) Methyl tert-butyl Ether	2.82	73	103750	2.69 ug/L	99
21) 2-Butanone	4.07	43	41258	8.89 ug/L	77
22) cis-1,2-Dichloroethene	3.97	96	29854	1.53 ug/L	100
27) 1,2-Dichloroethane	5.19	62	27388	1.29 ug/L	99
30) Cyclohexane	4.73	56	71932	2.39 ug/L	98
33) Benzene	5.15	78	96279	1.28 ug/L	100
34) Trichloroethene	5.96	95	15464	0.86 ug/L	93
35) Methylcyclohexane	6.18	83	131870	4.55 ug/L	98
40) 4-Methyl-2-pentanone	7.29	43	69547	6.25 ug/L	98
42) Toluene	7.44	91	278180	3.85 ug/L	99
47) Tetrachloroethene	8.03	164	17402	1.19 ug/L	98
48) 2-Hexanone	8.20	43	61089	7.78 ug/L	99

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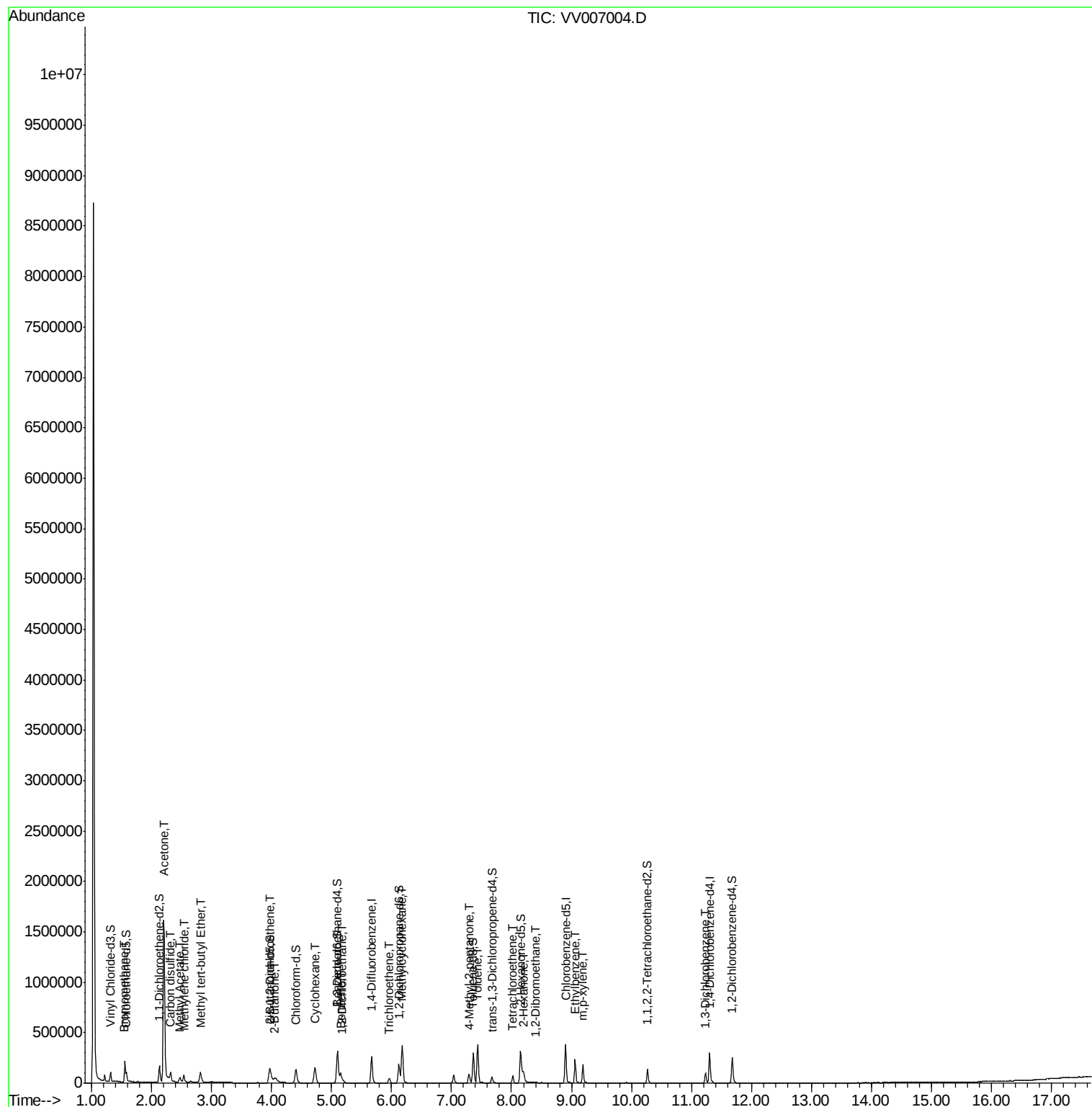
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-Dibromoethane	8.40	107	5731	0.51	ug/L #	97
52) Ethylbenzene	9.06	91	161262	2.23	ug/L	99
53) m,p-xylene	9.19	106	51046	1.90	ug/L	93
62) 1,3-Dichlorobenzene	11.23	146	45880	1.61	ug/L	97

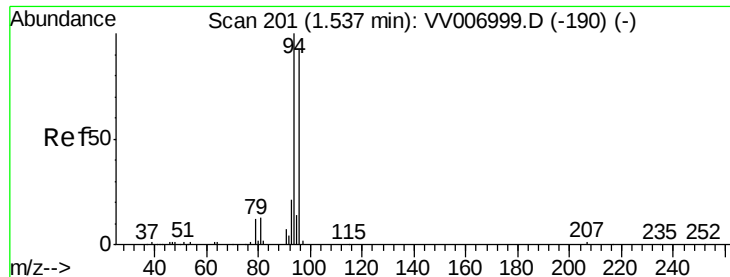
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.52 ug/L

RT: 1.54 min Scan# 201

Delta R.T. -0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

Instrument :

MSVOA_V

ClientSampleId :

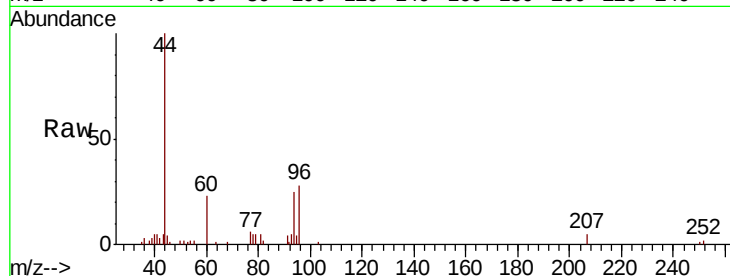
A4ZL3DL

Tot Ion: 94 Resp: 2458

Ion Ratio Lower Upper

94 100

96 111.0 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VV006999.D (-190) (-)

Ion 96.00 (95.70 to 96.70): VV006999.D (-190) (-)

2500

2000

1500

1000

500

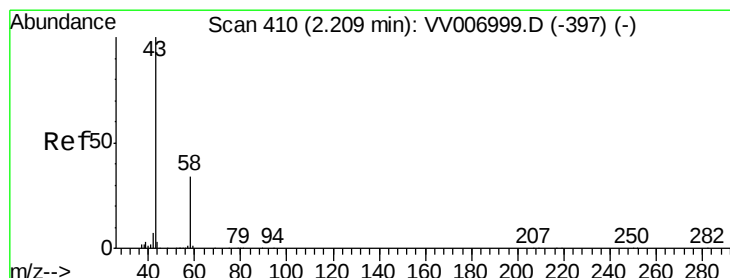
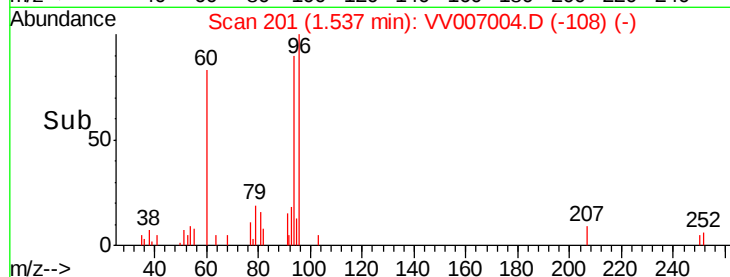
0

1.50

1.55

1.54

Time-->



#13

Acetone

Concen: 17.54 ug/L

RT: 2.21 min Scan# 411

Delta R.T. 0.00 min

Lab File: VV007004.D

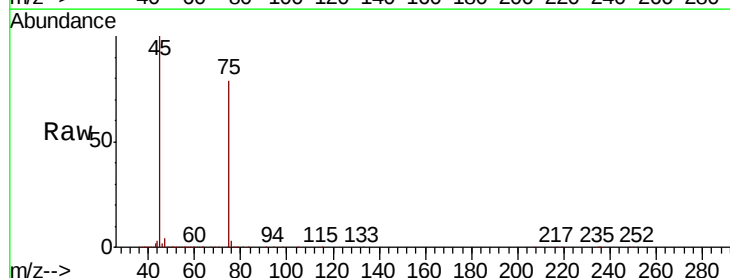
Acq: 13 Aug 2018 14:15

Tgt Ion: 43 Resp: 37515

Ion Ratio Lower Upper

43 100

58 21.7 0.0 71.4



Abundance Ion 43.05 (42.75 to 43.75): VV006999.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VV006999.D (-397) (-)

15000

10000

5000

0

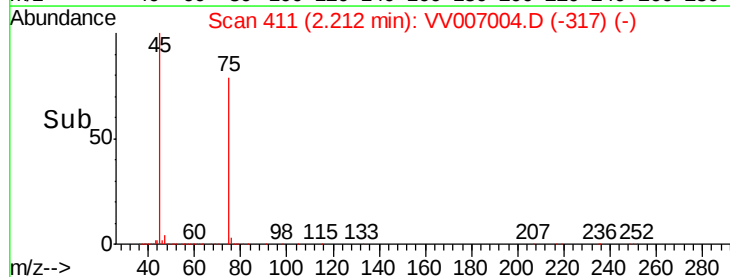
2.10

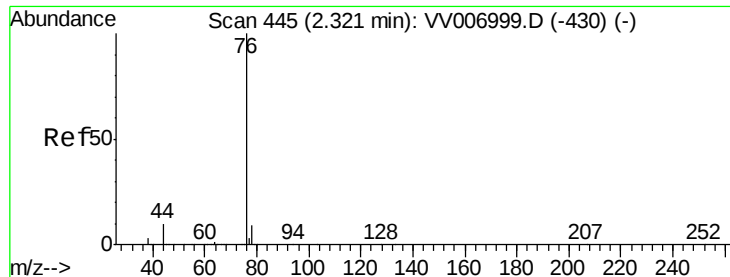
2.20

2.21

2.30

Time-->





#14

Carbon disulfide

Concen: 1.66 ug/L

RT: 2.32 min Scan# 445

Delta R.T. -0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

Instrument :

MSVOA_V

ClientSampleId :

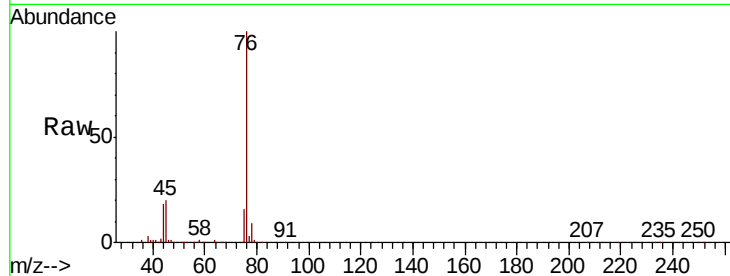
A4ZL3DL

Tot Ion: 76 Resp: 88268

Ion Ratio Lower Upper

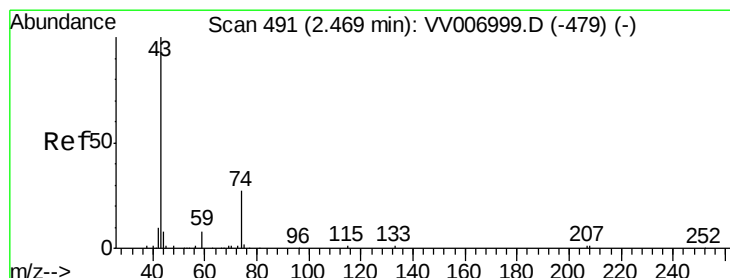
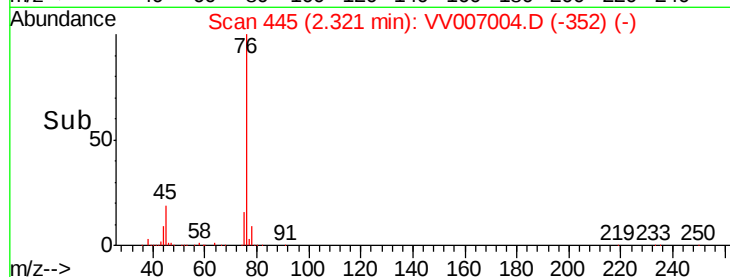
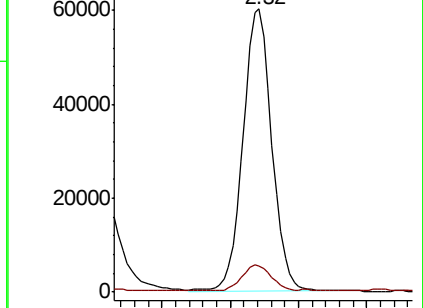
76 100

78 9.4 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VV006999.D (-430) (-)

Ion 78.00 (77.70 to 78.70): VV006999.D (-430) (-)



#15

Methyl Acetate

Concen: 9.24 ug/L

RT: 2.47 min Scan# 492

Delta R.T. 0.00 min

Lab File: VV007004.D

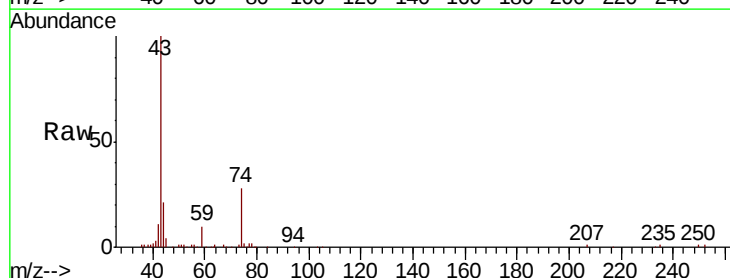
Acq: 13 Aug 2018 14:15

Tgt Ion: 43 Resp: 55626

Ion Ratio Lower Upper

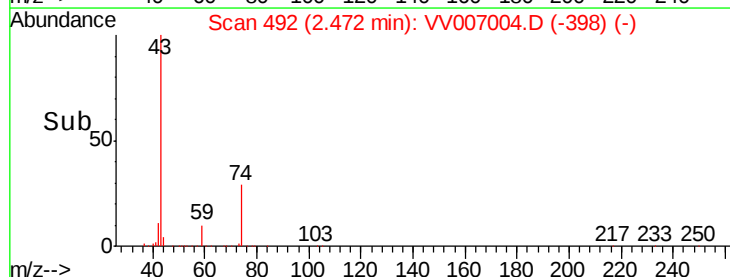
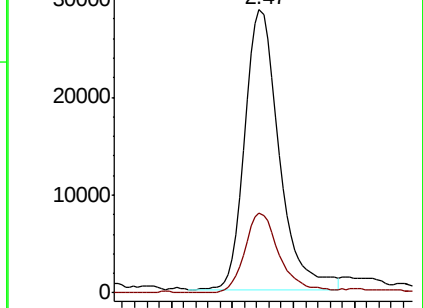
43 100

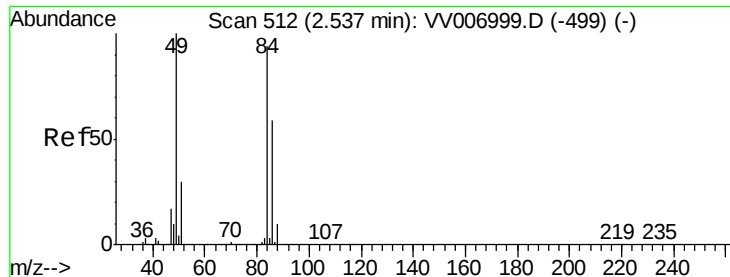
74 29.1 24.6 37.0



Abundance Ion 43.05 (42.75 to 43.75): VV006999.D (-479) (-)

Ion 74.05 (73.75 to 74.75): VV006999.D (-479) (-)

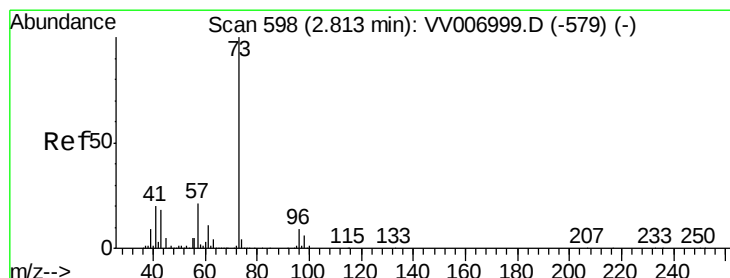
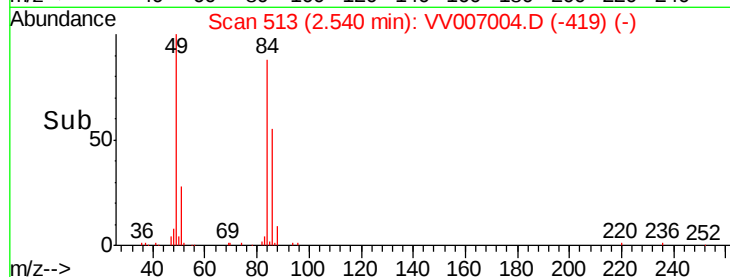
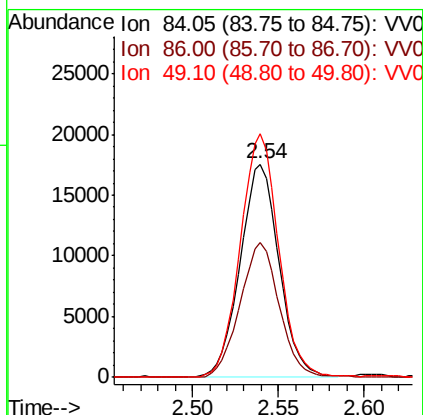
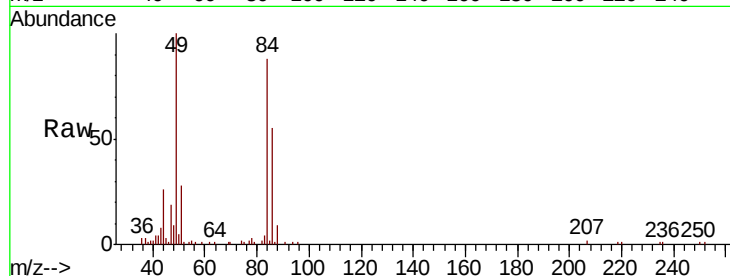




#16
Methvlene chloride
Concen: 1.42 ug/L
RT: 2.54 min Scan# 513
Delta R.T. 0.00 min
Lab File: VV007004.D
Acq: 13 Aug 2018 14:15

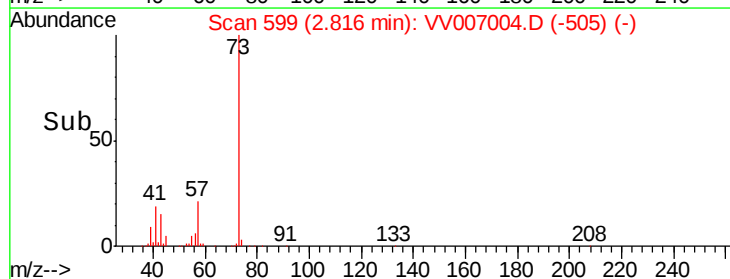
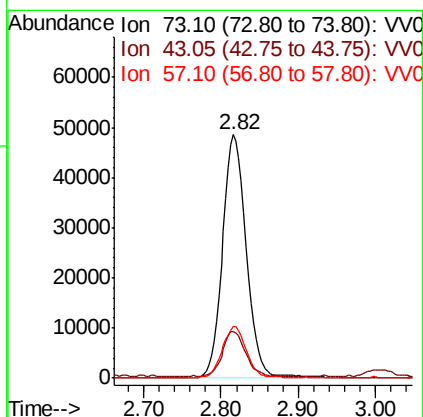
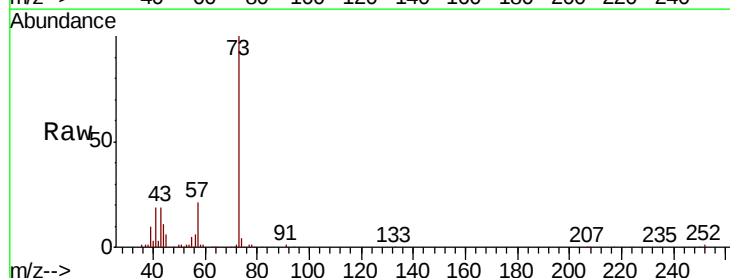
Instrument :
MSVOA_V
ClientSampleId :
A4ZL3DL

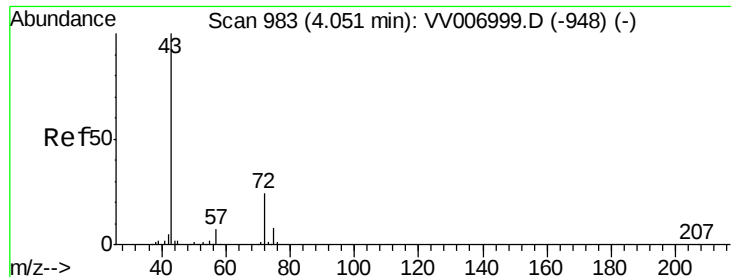
Tot Ion: 84 Resp: 27571
Ion Ratio Lower Upper
84 100
86 63.1 45.7 84.9
49 114.1 78.8 146.4



#17
Methyl tert-butyl Ether
Concen: 2.69 ug/L
RT: 2.82 min Scan# 599
Delta R.T. 0.00 min
Lab File: VV007004.D
Acq: 13 Aug 2018 14:15

Tgt Ion: 73 Resp: 103750
Ion Ratio Lower Upper
73 100
43 17.6 14.4 21.6
57 21.6 17.9 26.9

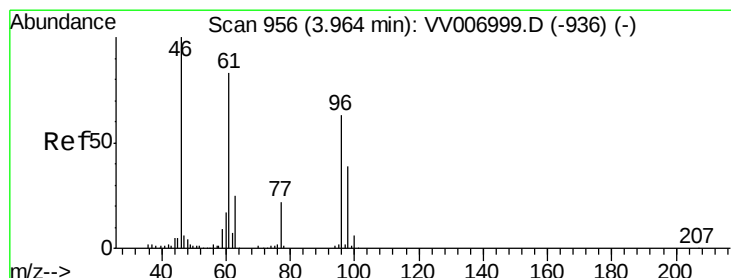
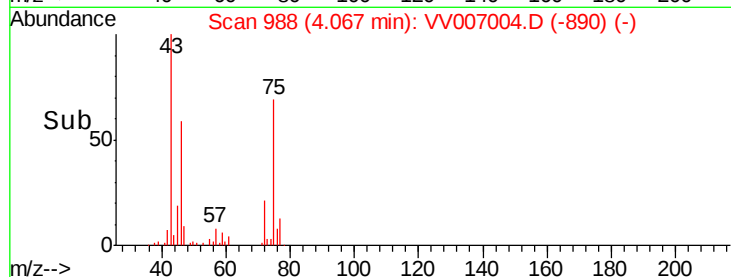
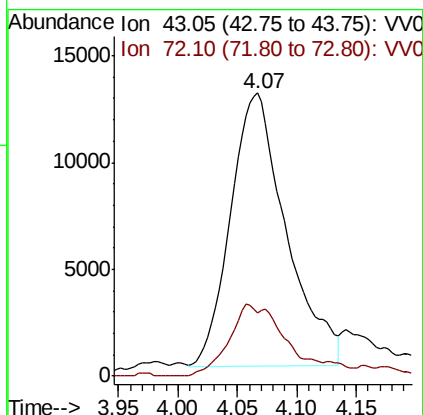
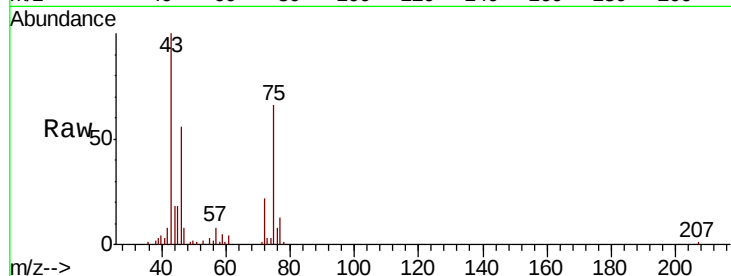




#21
 2-Butanone
 Concen: 8.89 ug/L
 RT: 4.07 min Scan# 988
 Delta R.T. 0.02 min
 Lab File: VV007004.D
 Acq: 13 Aug 2018 14:15

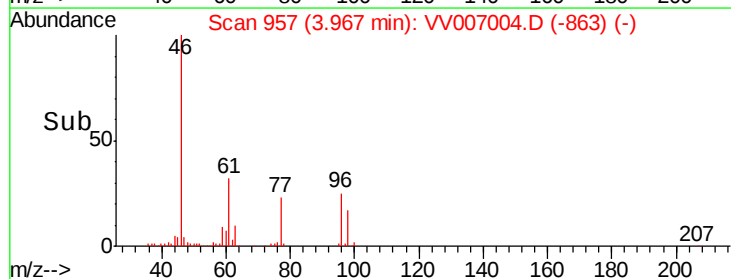
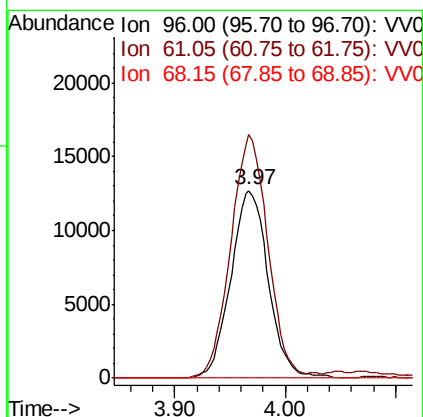
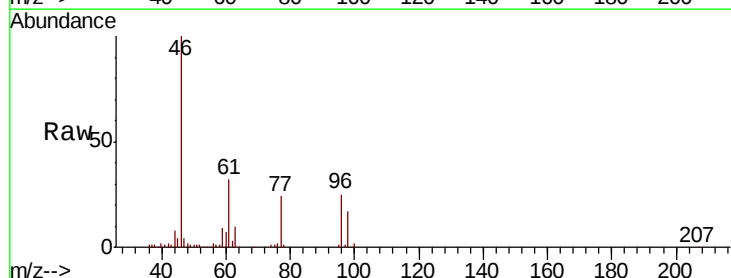
Instrument :
 MSVOA_V
 ClientSampleID :
 A4ZL3DL

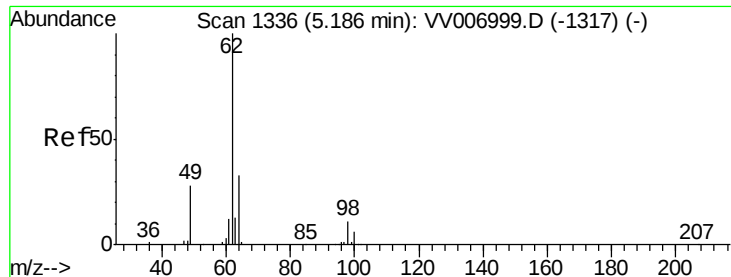
Tot Ion: 43 Resp: 41258
 Ion Ratio Lower Upper
 43 100
 72 13.4 12.4 37.2



#22
 cis-1,2-Dichloroethene
 Concen: 1.53 ug/L
 RT: 3.97 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VV007004.D
 Acq: 13 Aug 2018 14:15

Tgt Ion: 96 Resp: 29854
 Ion Ratio Lower Upper
 96 100
 61 130.0 91.1 169.1
 68 0.0 0.0 0.0





#27

1,2-Dichloroethane

Concen: 1.29 ug/L

RT: 5.19 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

Instrument :

MSVOA_V

ClientSampleId :

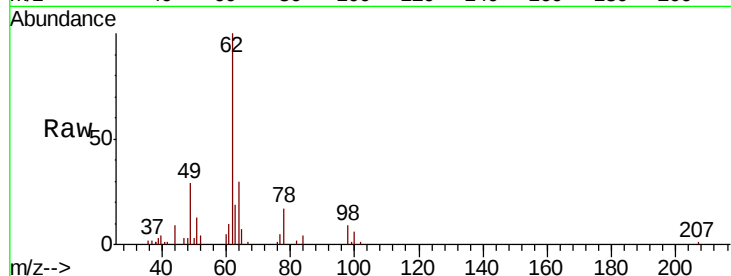
A4ZL3DL

Tot Ion: 62 Resp: 27388

Ion Ratio Lower Upper

62 100

98 9.0 7.6 11.4



Abundance Ion 62.00 (61.70 to 62.70): VV006999.D (-1317) (-)

Ion 98.05 (97.75 to 98.75): VV006999.D (-1317) (-)

5.19

15000

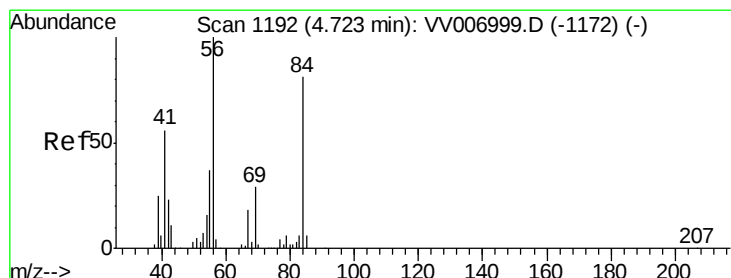
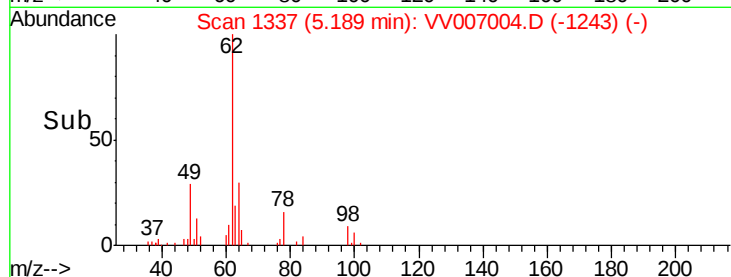
10000

5000

0

Time-->

5.10 5.20 5.30



#30

Cyclohexane

Concen: 2.39 ug/L

RT: 4.73 min Scan# 1193

Delta R.T. 0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

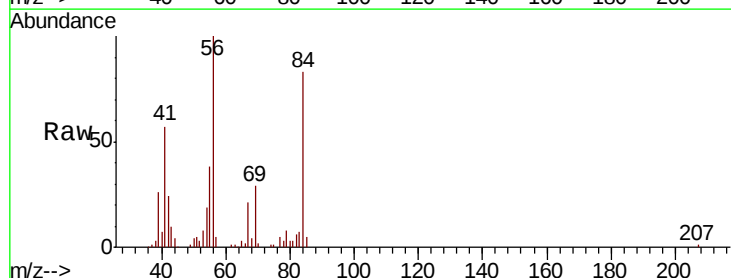
Tgt Ion: 56 Resp: 71932

Ion Ratio Lower Upper

56 100

69 30.3 23.8 35.6

84 87.3 67.9 101.9



Abundance Ion 56.10 (55.80 to 56.80): VV006999.D (-1172) (-)

Ion 69.15 (68.85 to 69.85): VV006999.D (-1172) (-)

Ion 84.15 (83.85 to 84.85): VV006999.D (-1172) (-)

4.73

40000

30000

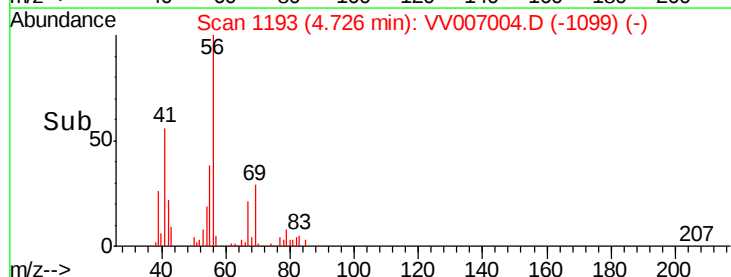
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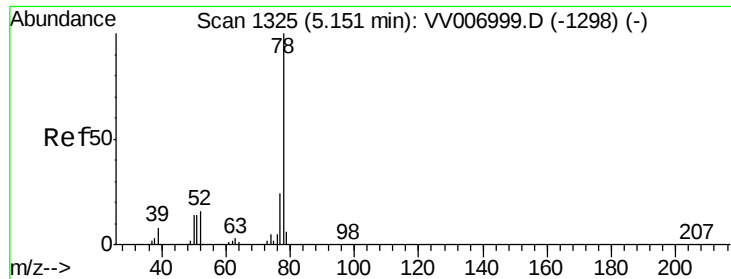
10000

0

Time-->

4.65 4.70 4.75 4.80





#33

Benzene

Concen: 1.28 ug/L

RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

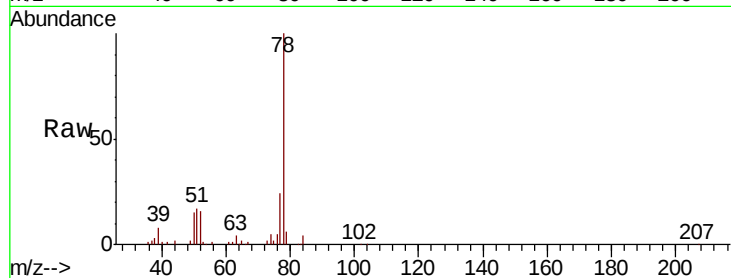
Instrument :

MSVOA_V

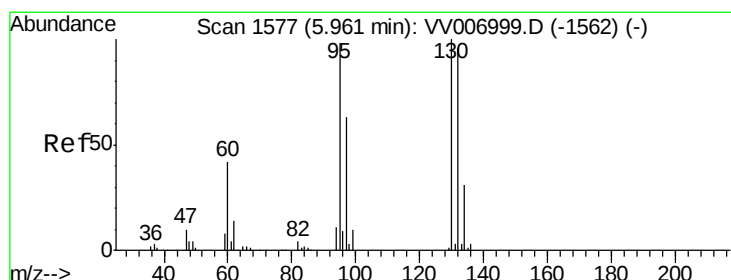
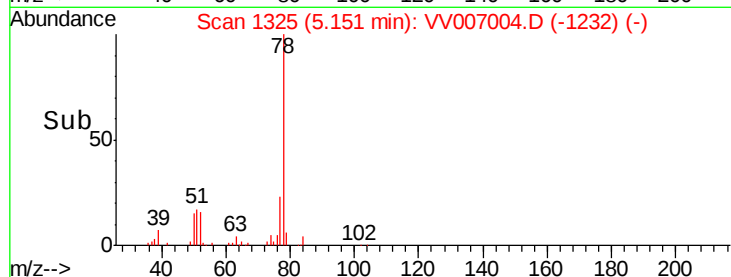
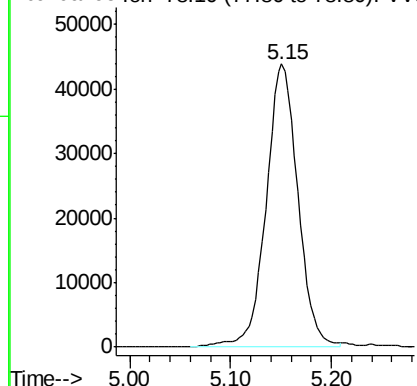
ClientSampleId :

A4ZL3DL

Tgt Ion: 78 Resp: 96279



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.86 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

Tgt Ion: 95 Resp: 15464

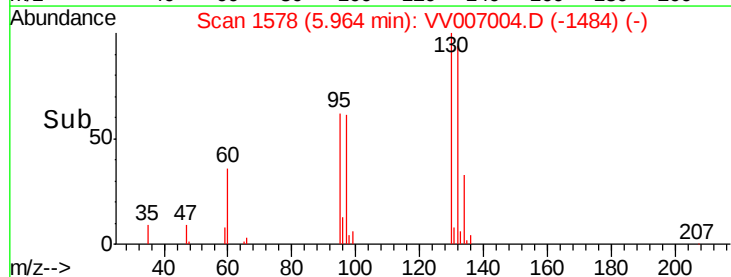
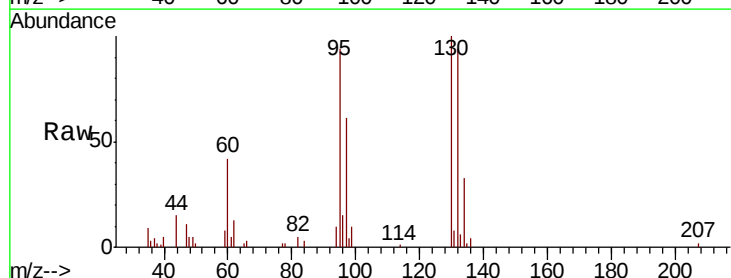
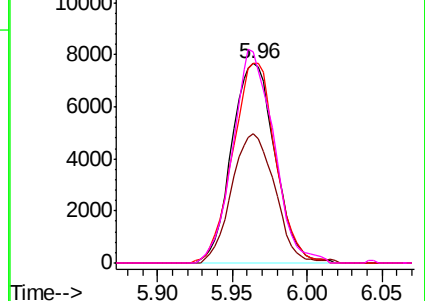
Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.8	83.2
132	100.3	65.5	121.6
130	106.3	66.4	123.4

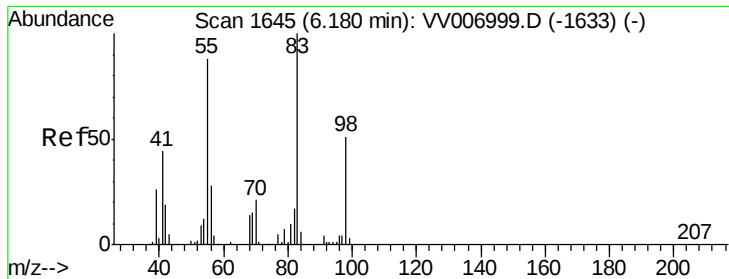
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

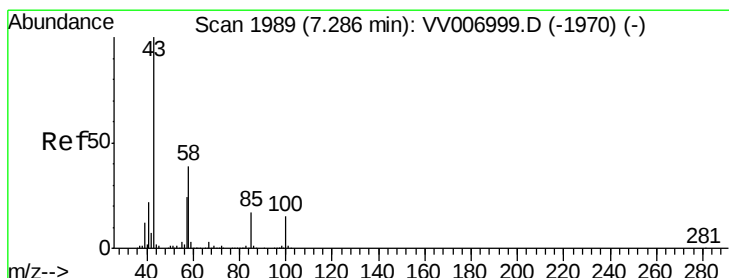
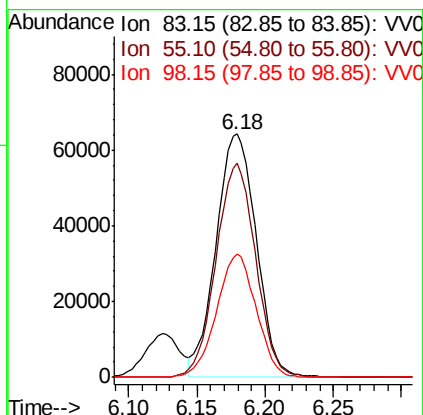
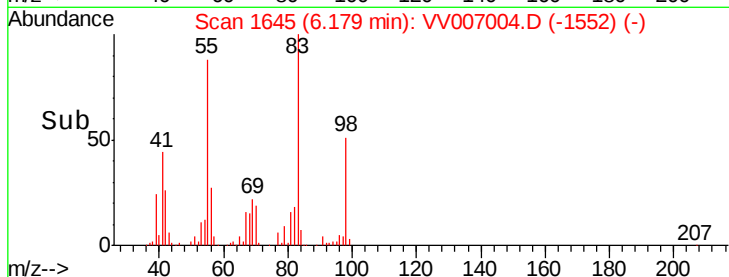
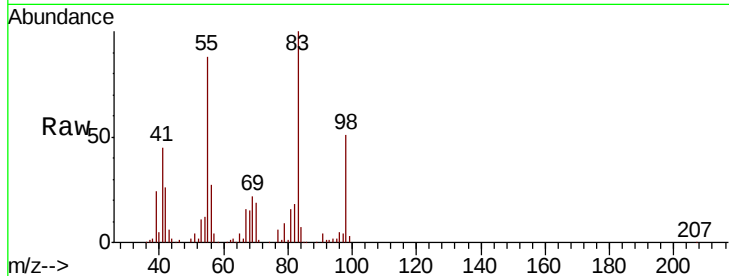




#35
Methylcyclohexane
Concen: 4.55 ug/L
RT: 6.18 min Scan# 1645
Delta R.T. -0.00 min
Lab File: VV007004.D
Acq: 13 Aug 2018 14:15

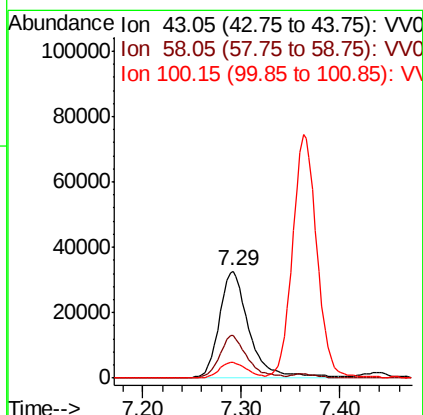
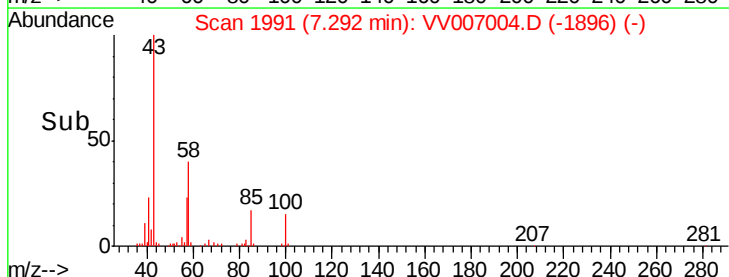
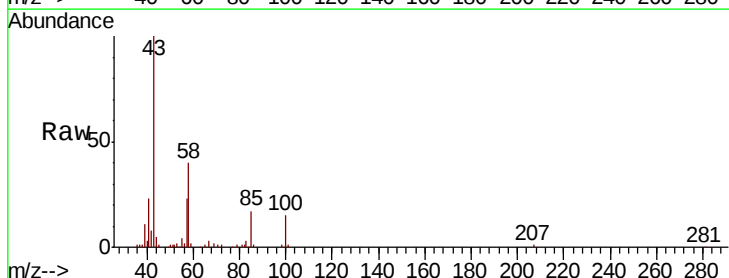
Instrument :
MSVOA_V
ClientSampled :
A4ZL3DL

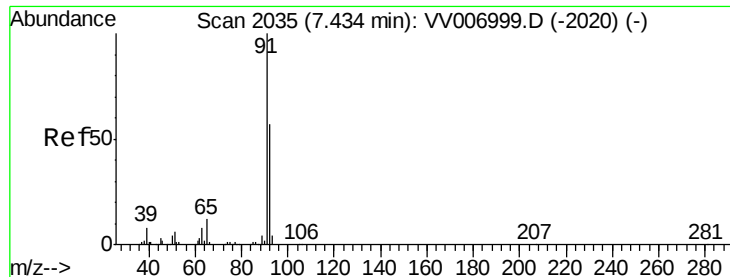
Tot Ion: 83 Resp: 131870
Ion Ratio Lower Upper
83 100
55 86.5 68.1 102.1
98 49.8 37.9 56.9



#40
4-Methyl-2-pentanone
Concen: 6.25 ug/L
RT: 7.29 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VV007004.D
Acq: 13 Aug 2018 14:15

Tgt Ion: 43 Resp: 69547
Ion Ratio Lower Upper
43 100
58 36.9 30.7 46.1
100 14.1 11.2 16.8





#42

Toluene

Concen: 3.85 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

Instrument :

MSVOA_V

ClientSampleId :

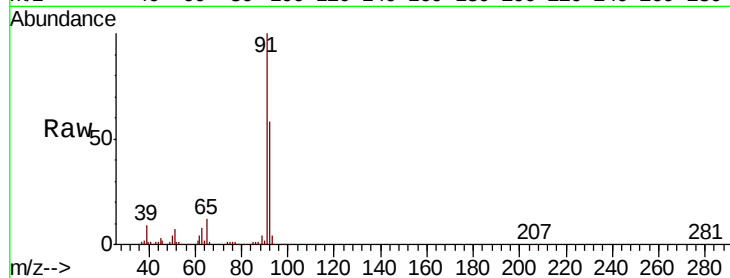
A4ZL3DL

Tot Ion: 91 Resp: 278180

Ion Ratio Lower Upper

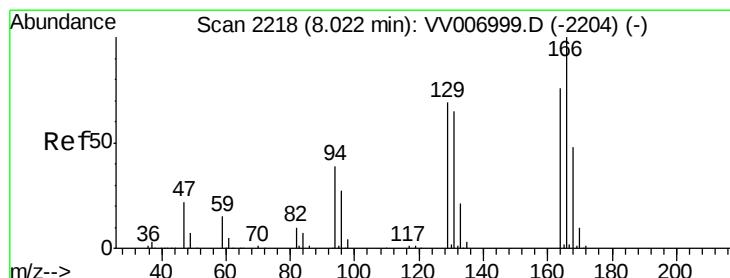
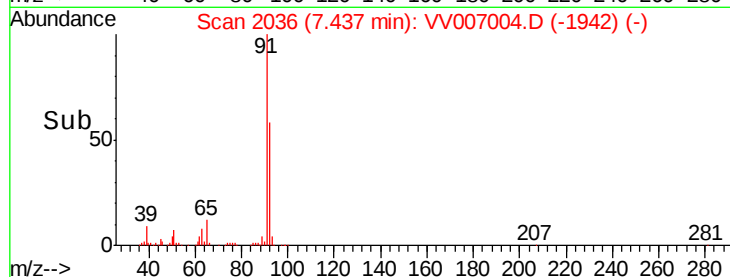
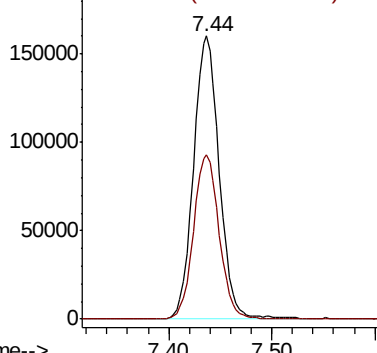
91 100

92 57.8 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV006999.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VV006999.D (-2020) (-)



#47

Tetrachloroethene

Concen: 1.19 ug/L

RT: 8.03 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

Tgt Ion:164 Resp: 17402

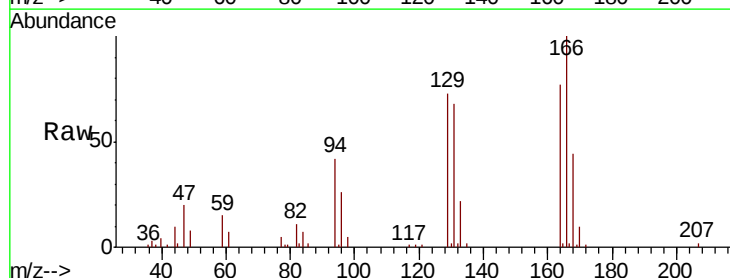
Ion Ratio Lower Upper

164 100

129 95.7 65.9 122.3

131 88.5 64.2 119.2

166 130.4 89.4 166.0

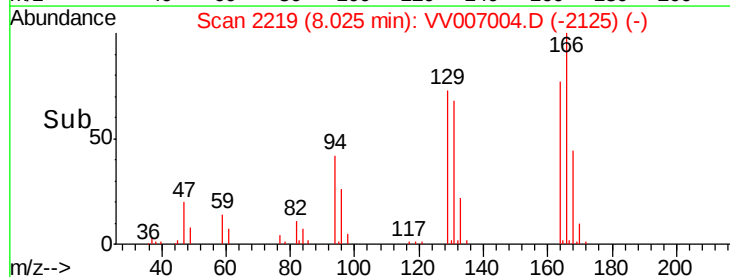
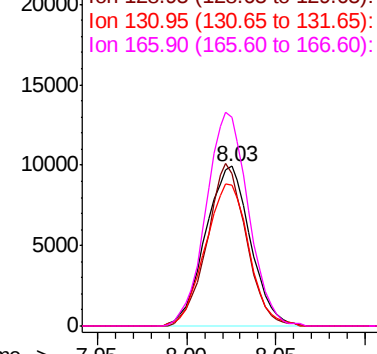


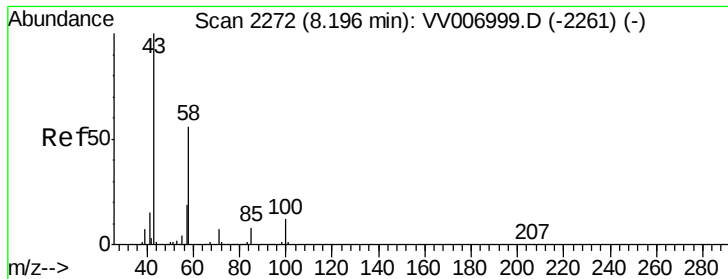
Abundance Ion 163.90 (163.60 to 164.60): VV006999.D (-2204) (-)

Ion 128.95 (128.65 to 129.65): VV006999.D (-2204) (-)

Ion 130.95 (130.65 to 131.65): VV006999.D (-2204) (-)

Ion 165.90 (165.60 to 166.60): VV006999.D (-2204) (-)

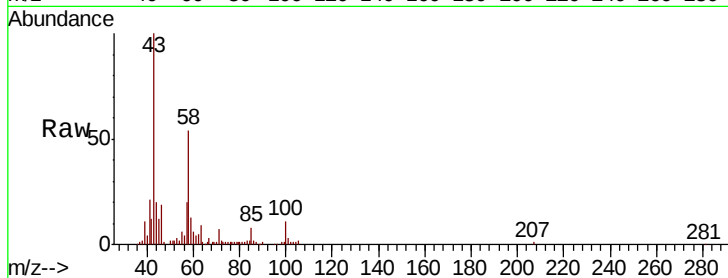




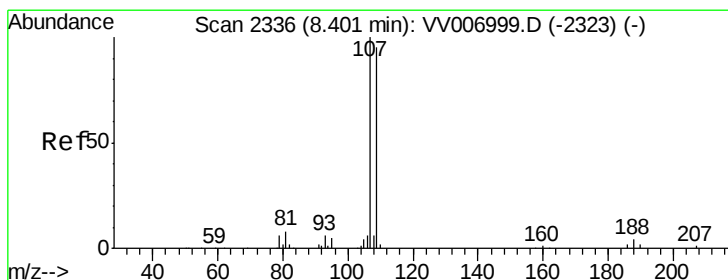
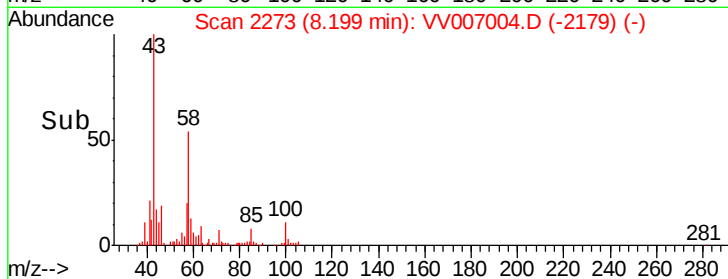
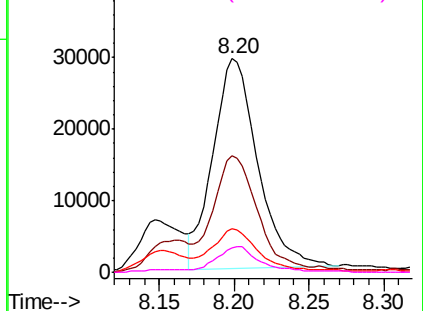
#48
 2-Hexanone
 Concen: 7.78 ug/L
 RT: 8.20 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VV007004.D
 Acq: 13 Aug 2018 14:15

Instrument :
 MSVOA_V
 ClientSampleId :
 A4ZL3DL

Tot Ion: 43 Resp: 61089
 Ion Ratio Lower Upper
 43 100
 58 55.5 44.2 66.2
 57 20.8 14.8 22.2
 100 11.0 8.8 13.2

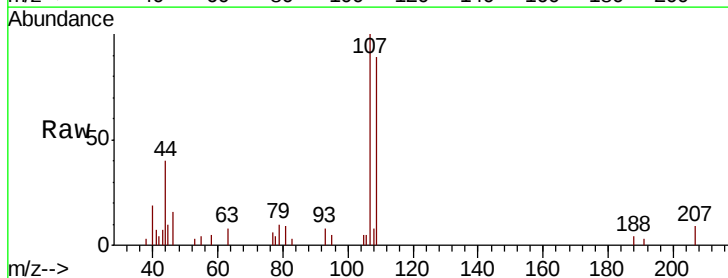


Abundance Ion 43.05 (42.75 to 43.75): VV006999.D (-2261) (-)
 Ion 58.05 (57.75 to 58.75): VV006999.D (-2261) (-)
 Ion 57.20 (56.90 to 57.90): VV006999.D (-2261) (-)
 Ion 100.15 (99.85 to 100.85): VV006999.D (-2261) (-)

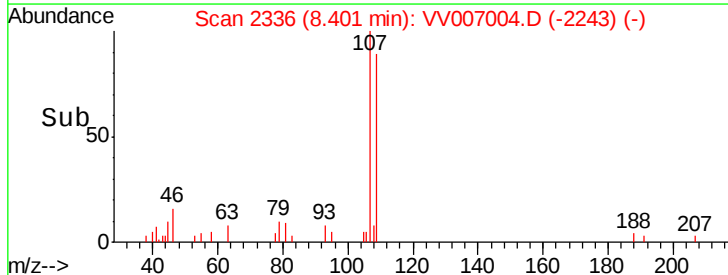
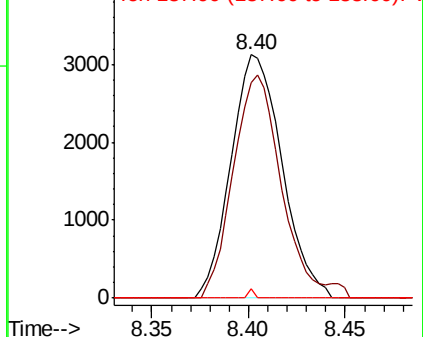


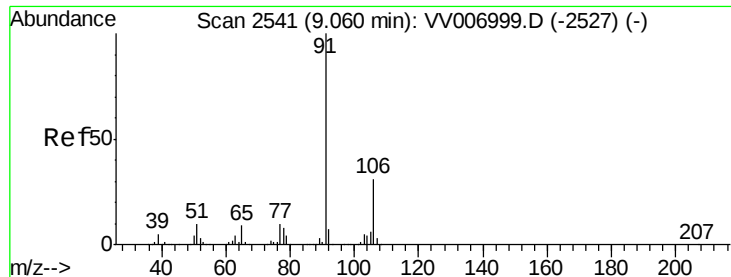
#50
 1,2-Dibromoethane
 Concen: 0.51 ug/L
 RT: 8.40 min Scan# 2336
 Delta R.T. -0.00 min
 Lab File: VV007004.D
 Acq: 13 Aug 2018 14:15

Tgt Ion: 107 Resp: 5731
 Ion Ratio Lower Upper
 107 100
 109 88.7 64.1 119.1
 188 3.8 4.0 6.0#



Abundance Ion 106.95 (106.65 to 107.65): VV006999.D (-2323) (-)
 Ion 109.00 (108.70 to 109.70): VV006999.D (-2323) (-)
 Ion 187.90 (187.60 to 188.60): VV006999.D (-2323) (-)





#52

Ethylbenzene

Concen: 2.23 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

Instrument :

MSVOA_V

ClientSampleId :

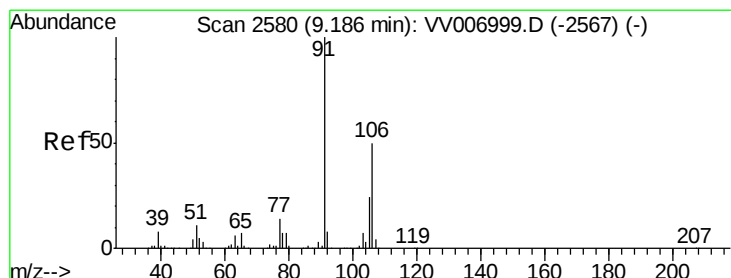
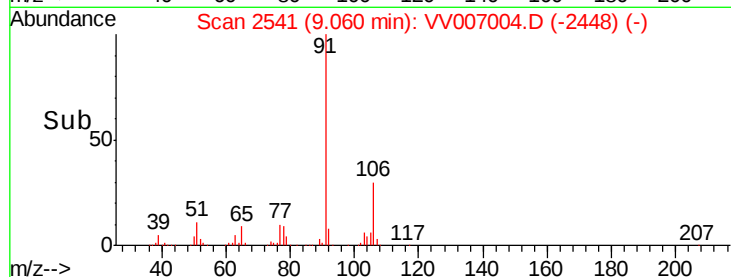
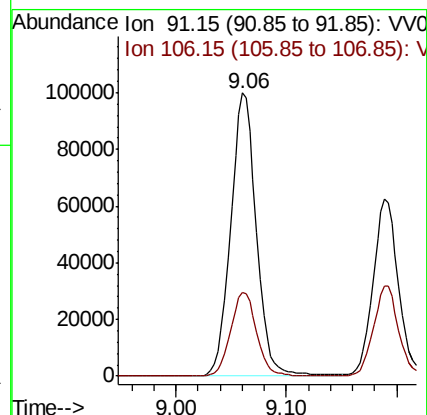
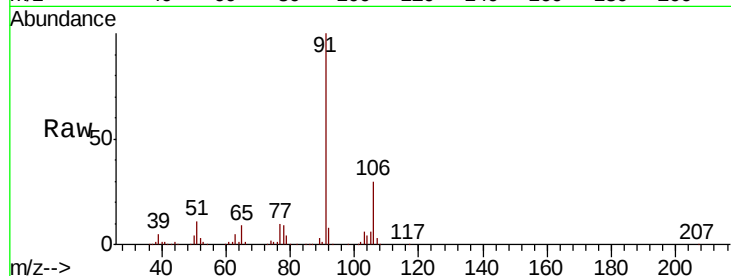
A4ZL3DL

Tot Ion: 91 Resp: 161262

Ion Ratio Lower Upper

91 100

106 29.7 21.3 39.5



#53

m,p-xylene

Concen: 1.90 ug/L

RT: 9.19 min Scan# 2582

Delta R.T. 0.01 min

Lab File: VV007004.D

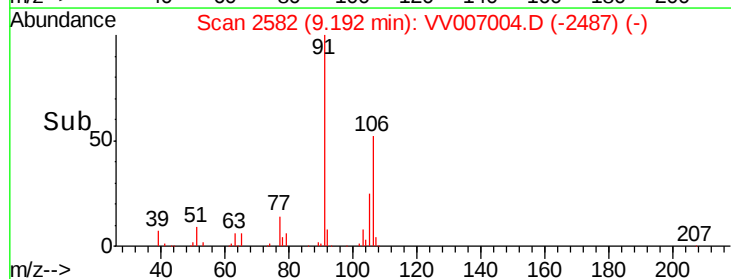
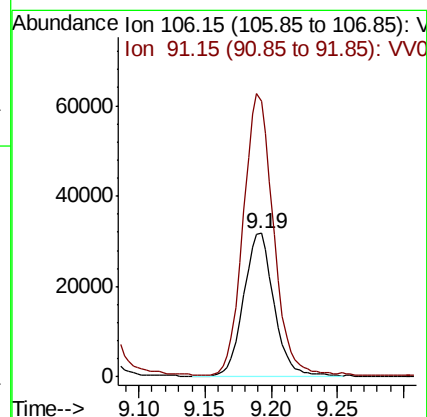
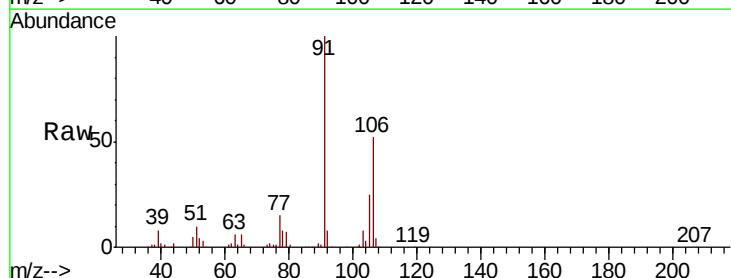
Acq: 13 Aug 2018 14:15

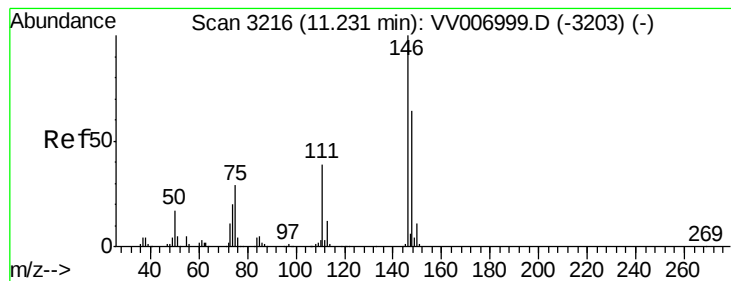
Tgt Ion: 106 Resp: 51046

Ion Ratio Lower Upper

106 100

91 192.3 141.6 263.0





#62

1,3-Dichlorobenzene

Concen: 1.61 ug/L

RT: 11.23 min Scan# 3217

Delta R.T. 0.00 min

Lab File: VV007004.D

Acq: 13 Aug 2018 14:15

Instrument :

MSVOA_V

ClientSampleId :

A4ZL3DL

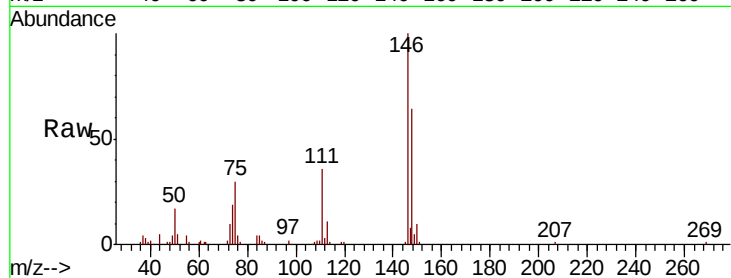
Tot Ion:146 Resp: 45880

Ion Ratio Lower Upper

146 100

111 36.4 28.1 52.3

148 64.3 44.2 82.2



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

