

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042219\
 Data File : VV010418.D
 Acq On : 22 Apr 2019 17:36
 Operator : SY/MD
 Sample : K2481-01
 Misc : 5.09G/10mL/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GAHP2

Quant Time: Apr 23 07:00:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM042219S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 23 06:57:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.68	114	2348	25.00	ug/L	0.01
28) Chlorobenzene-d5	8.90	117	5709	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.31	152	3116	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.21	65	41	1.27	ug/L	-0.11
Spiked Amount	25.000	Range	30 - 150	Recovery	=	5.08%#
7) Chloroethane-d5	1.58	69	139	5.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	22.08%#
10) 1,1-Dichloroethene-d2	2.13	63	188	3.11	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	12.44%#
20) 2-Butanone-d5	3.96	46	970	128.24	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	256.48%#
24) Chloroform-d	4.39	84	589	10.26	ug/L	-0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	=	41.04%
26) 1,2-Dichloroethane-d4	5.08	65	6238	177.21	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	708.84%#
29) Benzene-d6	5.10	84	2979	11.30	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	45.20%
33) 1,2-Dichloropropane-d6	6.12	67	3289	42.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	169.24%#
37) Toluene-d8	7.36	98	3005	11.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	44.28%
38) trans-1,3-Dichloropropene-	7.67	79	1984	51.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	207.28%#
39) 2-Hexanone-d5	8.14	63	865	56.01	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	112.02%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	9769	128.95	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	515.80%#
61) 1,2-Dichlorobenzene-d4	11.68	152	3569	30.14	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	120.56%#

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.45	85	52	1.452	ug/L # 42
3) Chloromethane	1.26	50	440	14.808	ug/L 96
5) Vinyl chloride	1.32	62	89	2.535	ug/L # 1
6) Bromomethane	1.54	94	682	37.264	ug/L 55
8) Chloroethane	1.58	64	203	10.284	ug/L # 43
12) 1,1-Dichloroethene	2.25	96	41	1.387	ug/L # 1
13) Acetone	2.19	43	1361	167.874	ug/L 71
14) Carbon disulfide	2.33	76	257	3.890	ug/L # 74
15) Methyl Acetate	2.46	43	19380	1605.993	ug/L 93
16) Methylene chloride	2.54	84	1507	43.766	ug/L 79
18) trans-1,2-Dichloroethene	2.79	96	54	2.065	ug/L # 1
21) 2-Butanone	3.97	43	44	5.092	ug/L # 51
22) cis-1,2-Dichloroethene	3.98	96	45	1.526	ug/L # 1
25) Chloroform	4.42	83	102	1.817	ug/L # 42
27) 1,2-Dichloroethane	5.19	62	76	1.930	ug/L # 77
40) 1,2-Dichloropropane	6.13	63	189	3.043	ug/L # 87
44) Toluene	7.43	91	323	1.059	ug/L # 22

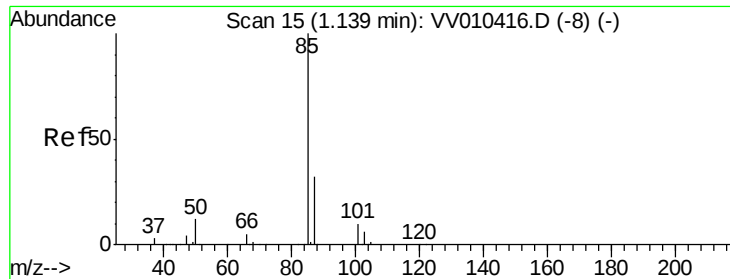
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042219\
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 Quant Title : VOC Analysis
 QLast Update : Tue Apr 23 06:57:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone	8.19	43	141	4.306	ug/L #	42
59) 1,2,3-Trichloropropane	11.31	75	191	3.573	ug/L #	60
63) 1,3-Dichlorobenzene	11.23	146	94	0.516	ug/L #	24
65) 1,2-Dichlorobenzene	11.69	146	182	1.028	ug/L #	35
68) 1,2,4-trichlorobenzene	13.31	180	202	1.839	ug/L #	73
69) Naphthalene	13.56	128	1974	11.181	ug/L #	90
70) 1,2,3-Trichlorobenzene	13.80	180	290	2.852	ug/L #	76

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



#2

Dichlorodifluoromethane

Concen: 1.452 ug/L

RT: 1.45 min Scan# 111

Delta R.T. 0.31 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Instrument :

MSVOA_V

ClientSampleId :

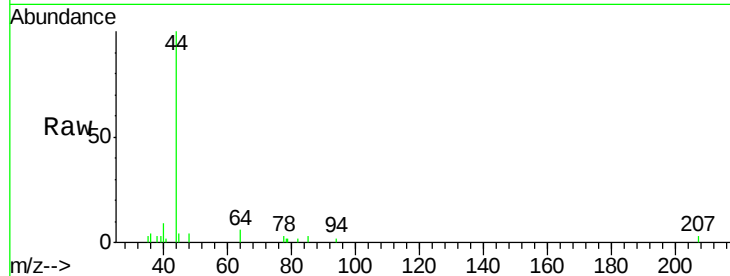
GAHP2

Tot Ion: 85 Resp: 52

Ion Ratio Lower Upper

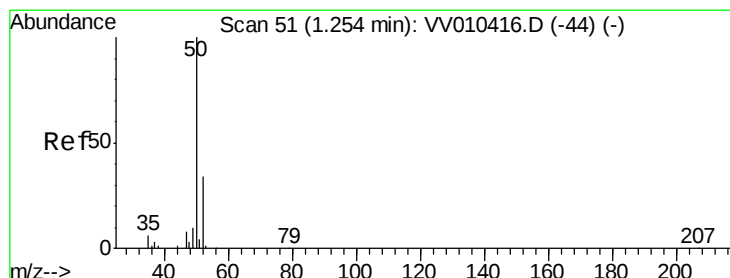
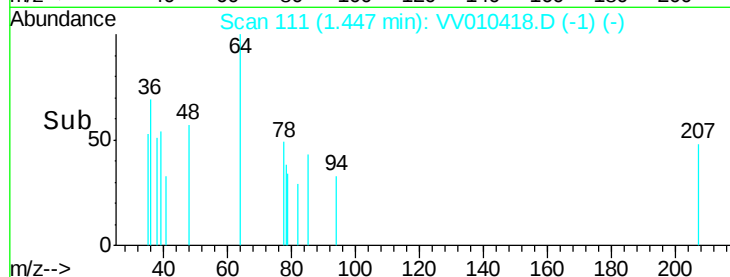
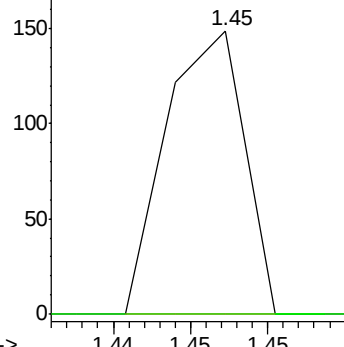
85 100

87 0.0 23.0 42.6#



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 14.808 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV010418.D

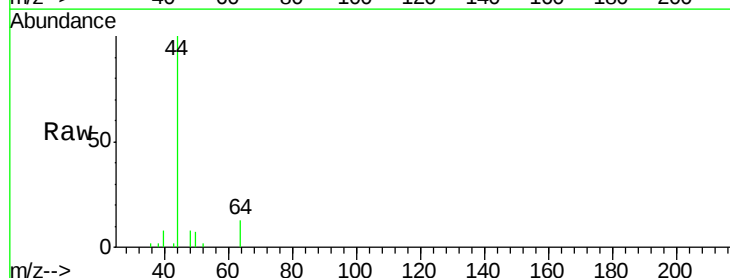
Acq: 22 Apr 2019 17:36

Tgt Ion: 50 Resp: 440

Ion Ratio Lower Upper

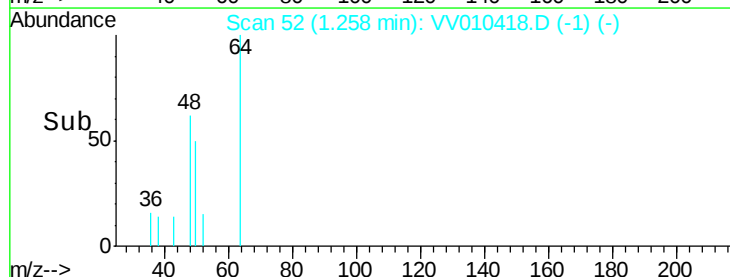
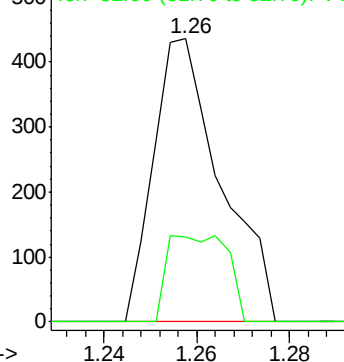
50 100

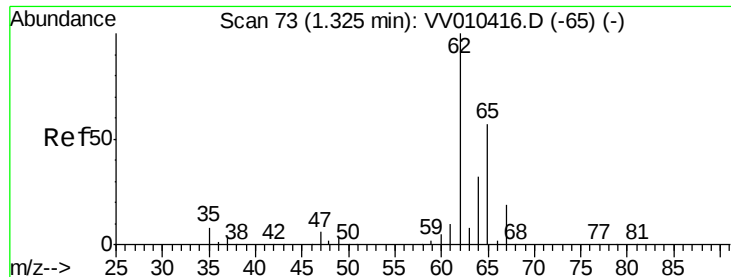
52 29.8 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 2.535 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Instrument :

MSVOA_V

ClientSampleId :

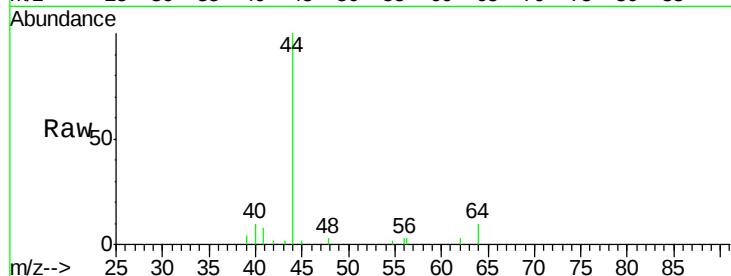
GAHP2

Tot Ion: 62 Resp: 89

Ion Ratio Lower Upper

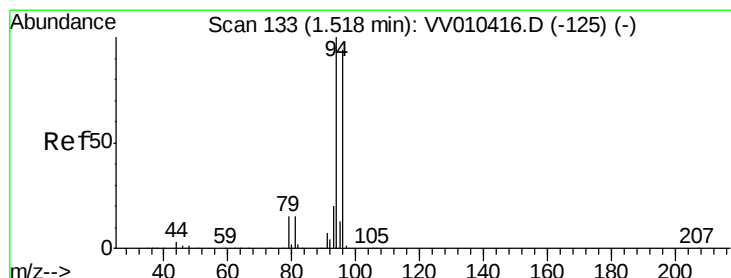
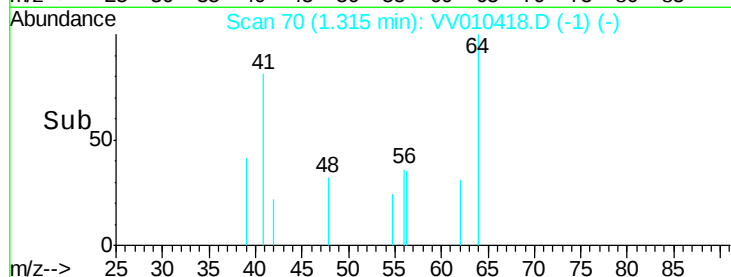
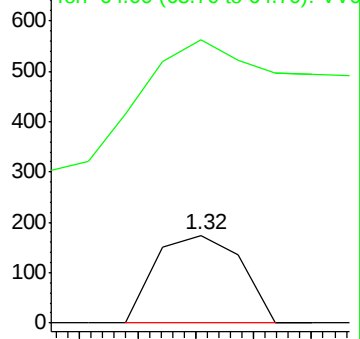
62 100

64 323.0 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 37.264 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.02 min

Lab File: VV010418.D

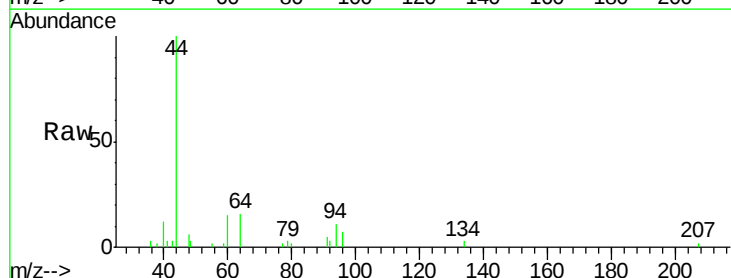
Acq: 22 Apr 2019 17:36

Tgt Ion: 94 Resp: 682

Ion Ratio Lower Upper

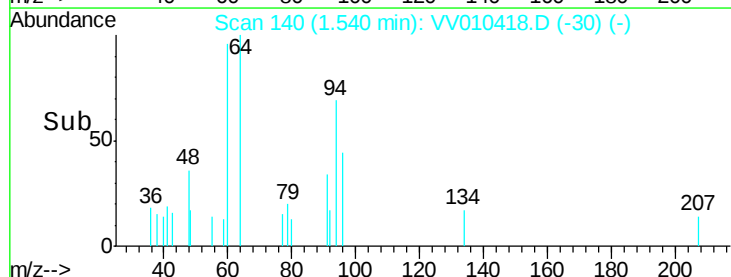
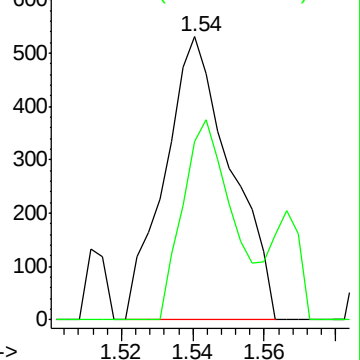
94 100

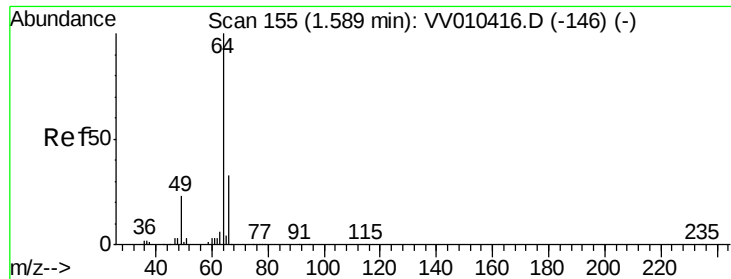
96 51.5 9.5 180.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 10.284 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.01 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Instrument :

MSVOA_V

ClientSampled :

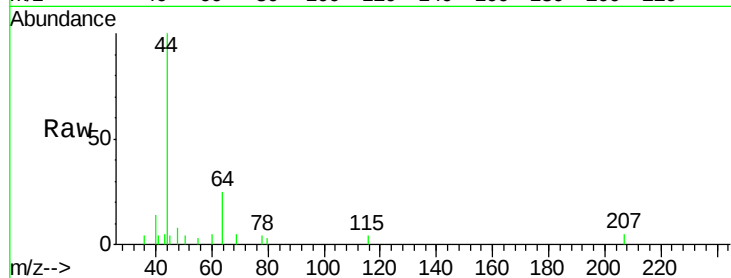
GAHP2

Tot Ion: 64 Resp: 203

Ion Ratio Lower Upper

64 100

66 0.0 22.5 41.7#



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0

1.58

1000

800

600

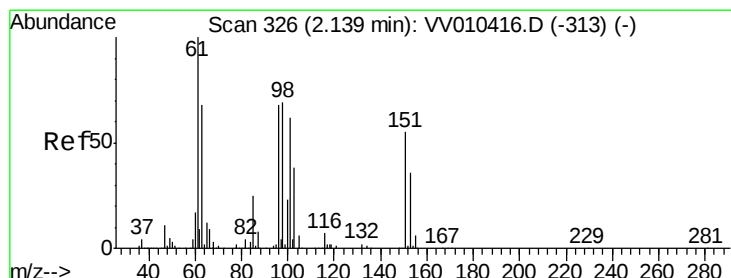
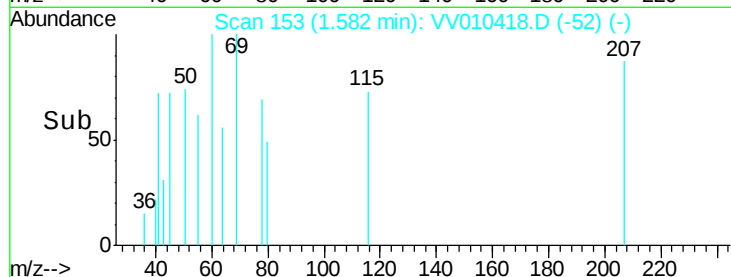
400

200

0

1.57 1.58 1.59 1.60

Time-->



#12

1,1-Dichloroethene

Concen: 1.387 ug/L

RT: 2.25 min Scan# 360

Delta R.T. 0.11 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

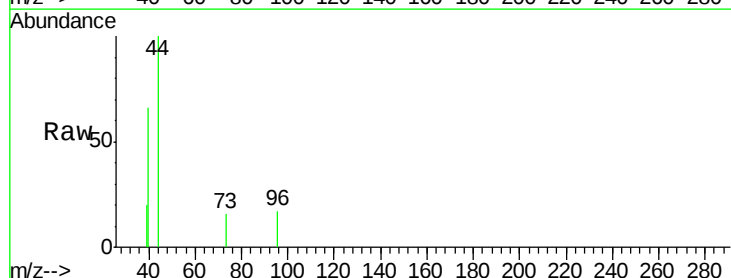
Tgt Ion: 96 Resp: 41

Ion Ratio Lower Upper

96 100

61 0.0 105.3 195.5#

63 0.0 87.8 163.2#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

150

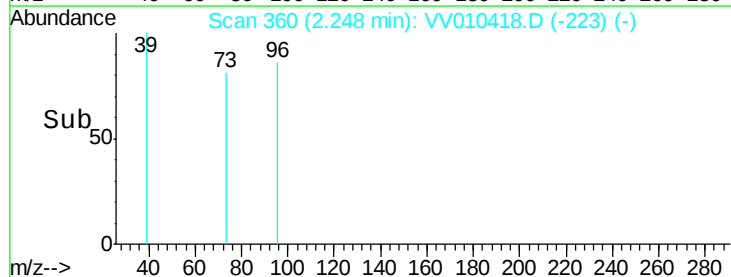
100

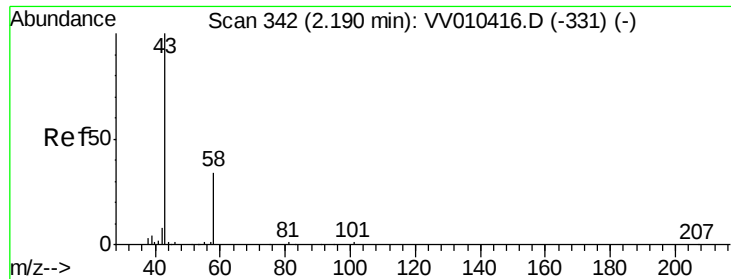
50

0

2.24 2.25 2.25 2.25

Time-->





#13

Acetone

Concen: 167.874 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Instrument :

MSVOA_V

ClientSampled :

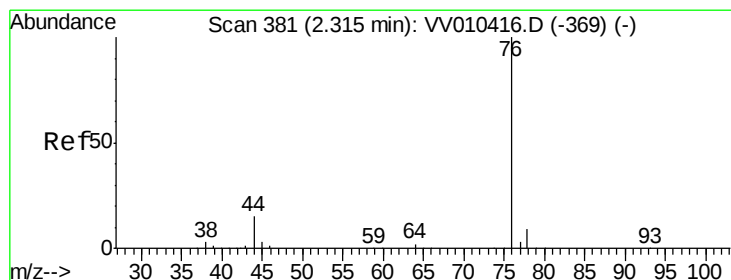
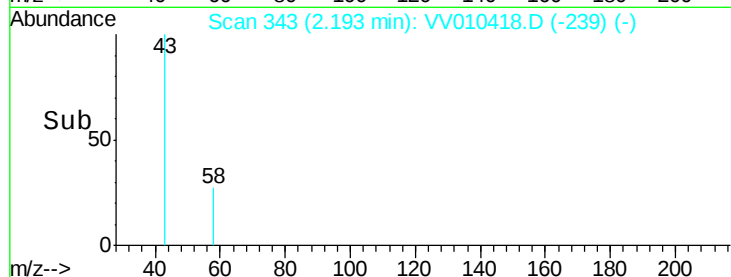
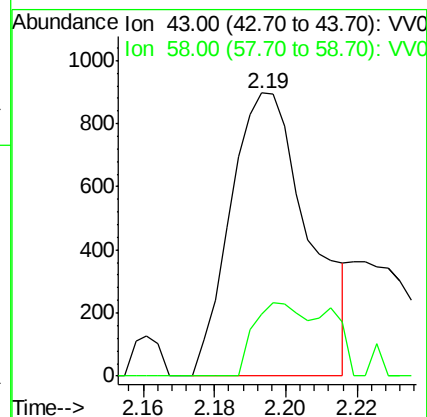
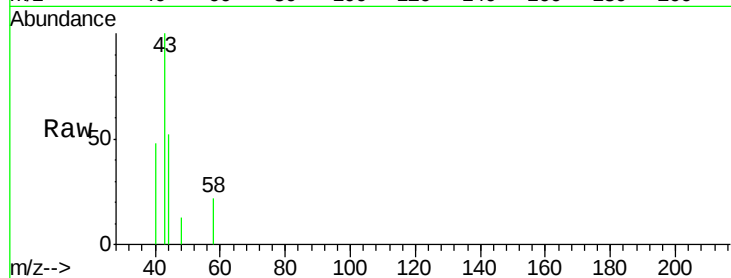
GAHP2

Tot Ion: 43 Resp: 1361

Ion Ratio Lower Upper

43 100

58 16.8 0.0 66.4



#14

Carbon disulfide

Concen: 3.890 ug/L

RT: 2.33 min Scan# 384

Delta R.T. 0.01 min

Lab File: VV010418.D

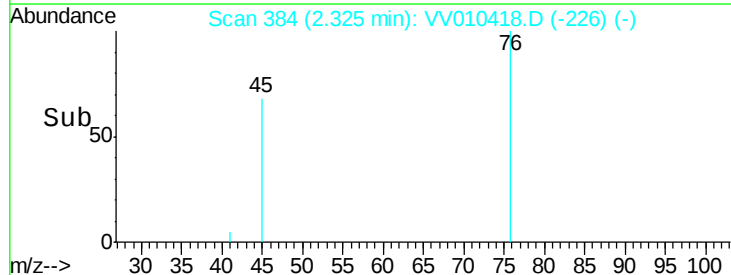
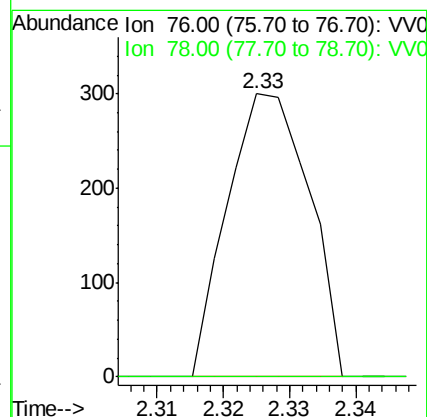
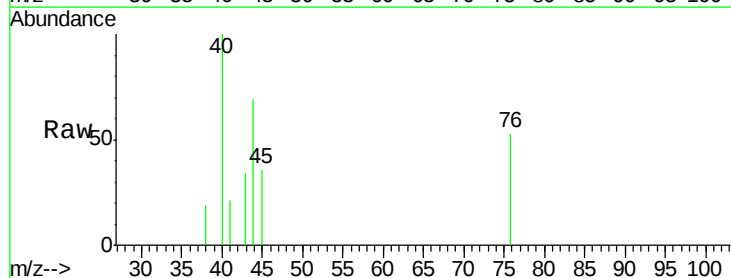
Acq: 22 Apr 2019 17:36

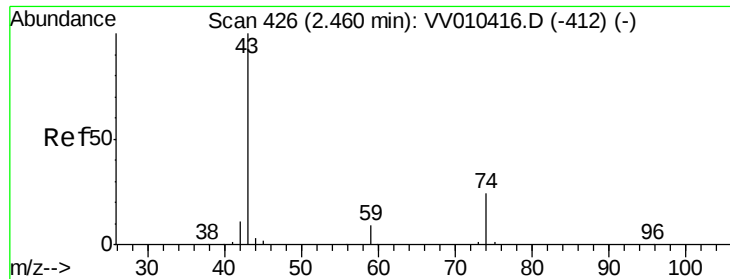
Tgt Ion: 76 Resp: 257

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#

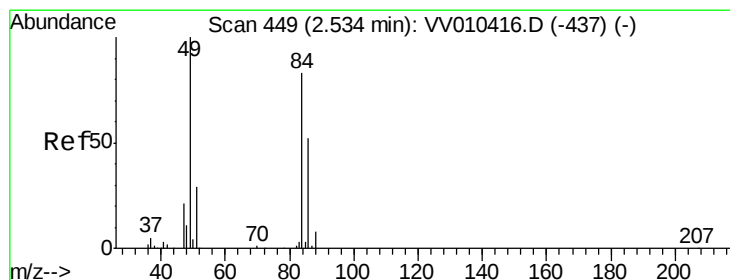
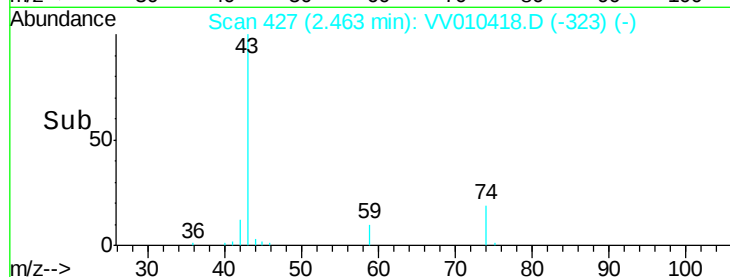
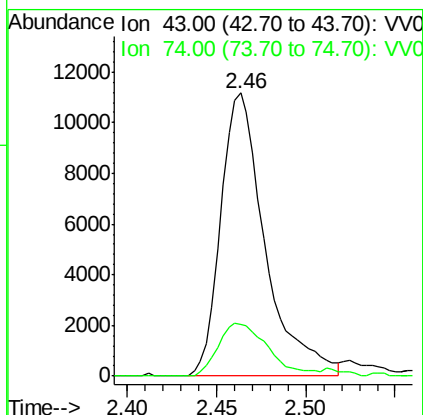
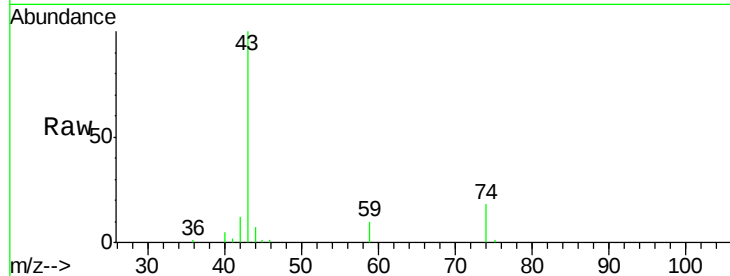




#15
Methvl Acetate
Concen: 1605.993 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VV010418.D
Acq: 22 Apr 2019 17:36

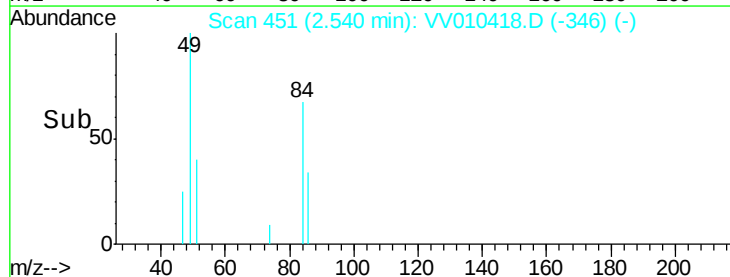
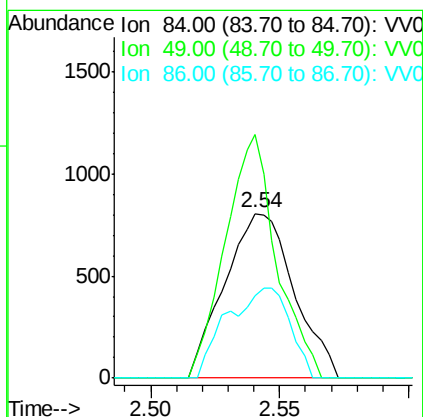
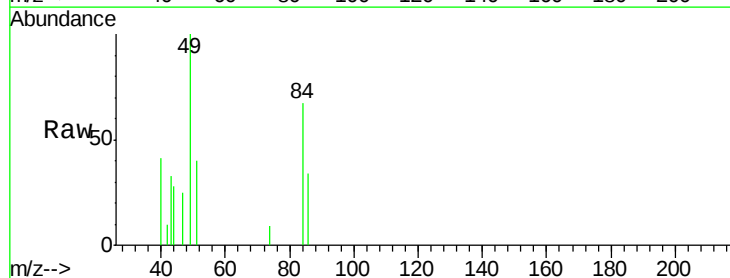
Instrument :
MSVOA_V
ClientSampled :
GAHP2

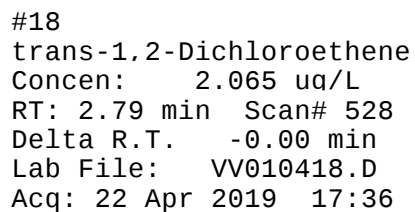
Tot Ion: 43 Resp: 19380
Ion Ratio Lower Upper
43 100
74 21.2 19.8 29.6



#16
Methylene chloride
Concen: 43.766 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.01 min
Lab File: VV010418.D
Acq: 22 Apr 2019 17:36

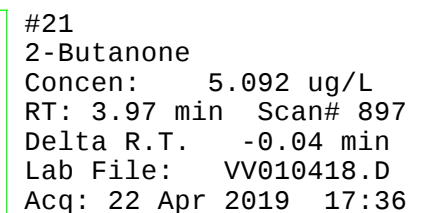
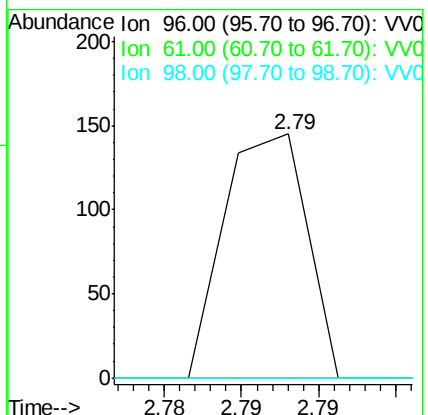
Tgt Ion: 84 Resp: 1507
Ion Ratio Lower Upper
84 100
49 148.2 85.0 158.0
86 50.4 43.9 81.5



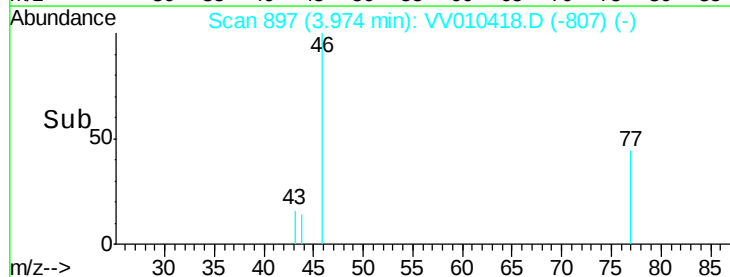
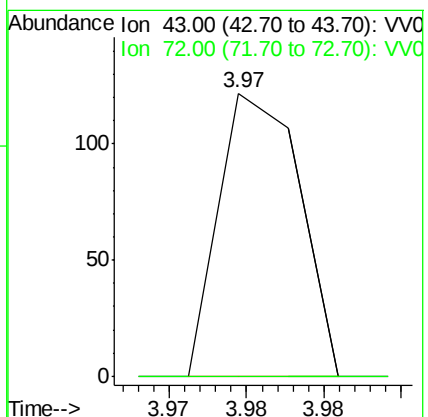


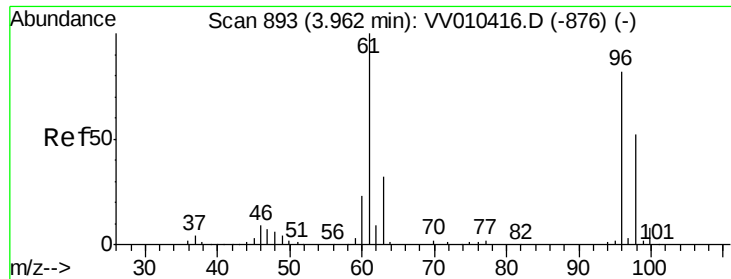
Instrument :
MSVOA_V
ClientSampleId :
GAHP2

Tot	Ion: 96	Resp:	54
Ion	Ratio	Lower	Upper
96	100		
61	0.0	98.6	183.0#
98	0.0	45.7	84.9#



Tgt	Ion: 43	Resp:	44
Ion	Ratio	Lower	Upper
43	100		
72	0.0	12.2	36.4#



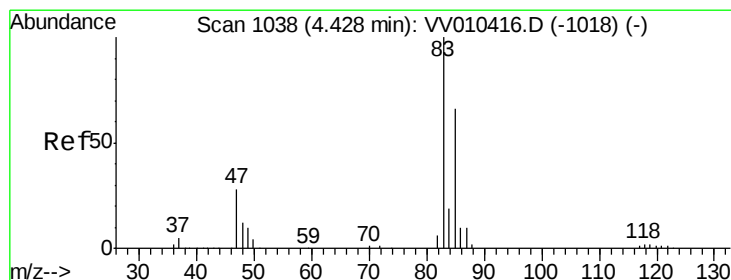
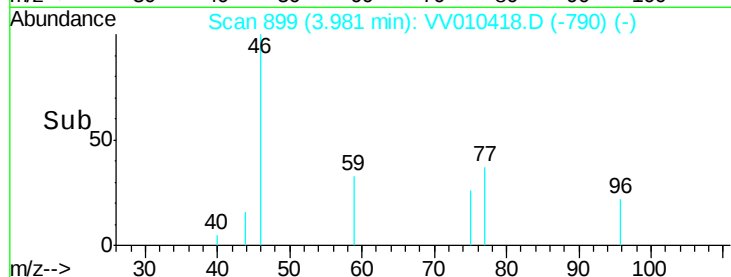
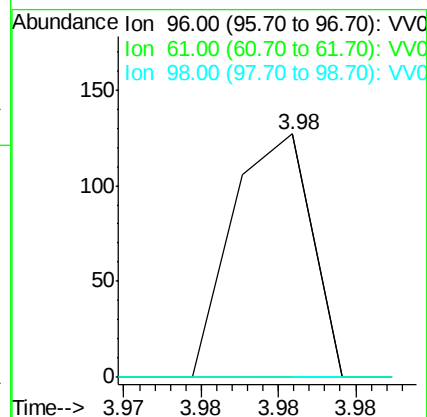
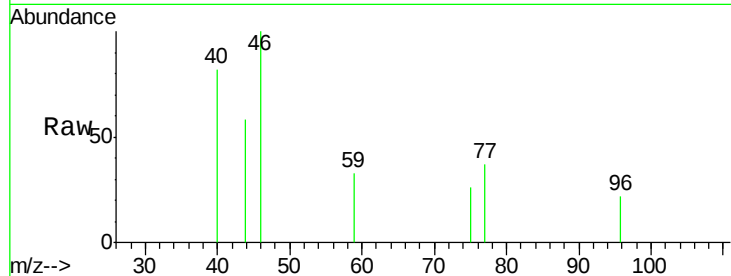


#22

cis-1,2-Dichloroethene
 Concen: 1.526 ug/L
 RT: 3.98 min Scan# 899
 Delta R.T. 0.02 min
 Lab File: VV010418.D
 Acq: 22 Apr 2019 17:36

Instrument :
 MSVOA_V
 ClientSampled :
 GAHP2

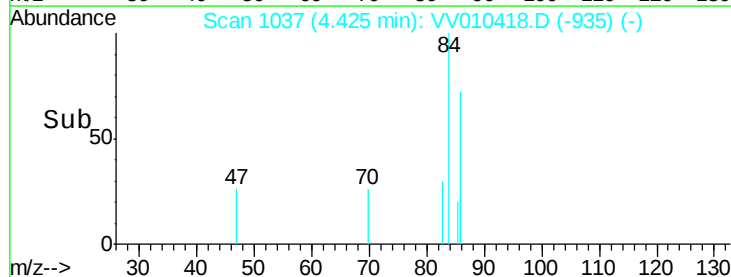
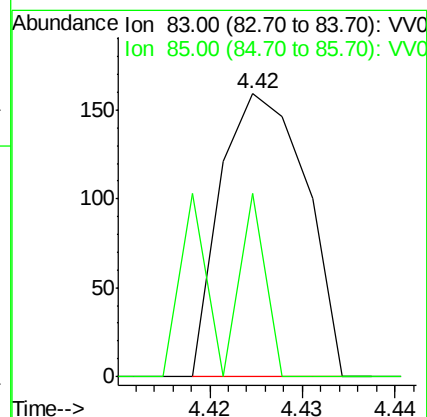
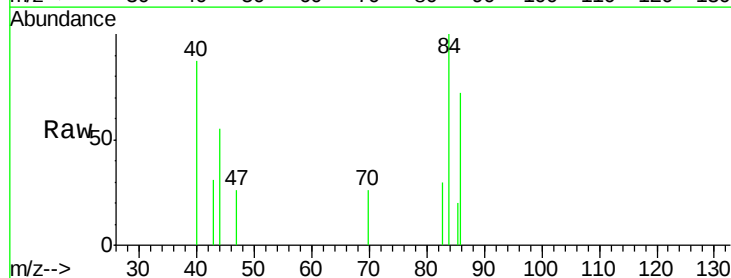
Tot Ion: 96 Resp: 45
 Ion Ratio Lower Upper
 96 100
 61 0.0 86.7 161.1#
 98 0.0 43.5 80.7#

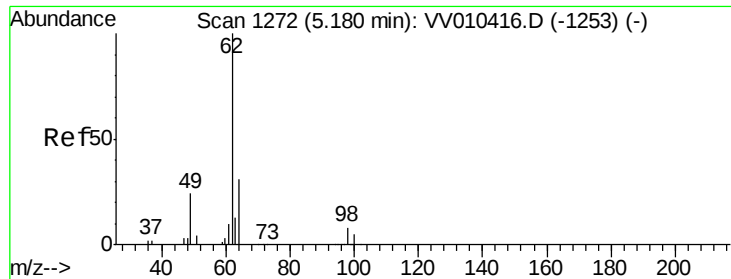


#25

Chloroform
 Concen: 1.817 ug/L
 RT: 4.42 min Scan# 1037
 Delta R.T. -0.00 min
 Lab File: VV010418.D
 Acq: 22 Apr 2019 17:36

Tgt Ion: 83 Resp: 102
 Ion Ratio Lower Upper
 83 100
 85 19.6 46.1 85.5#





#27

1,2-Dichloroethane

Concen: 1.930 ug/L

RT: 5.19 min Scan# 1275

Delta R.T. 0.01 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Instrument :

MSVOA_V

ClientSampleId :

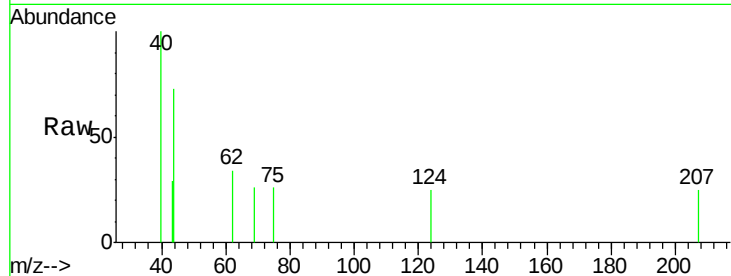
GAHP2

Tot Ion: 62 Resp: 76

Ion Ratio Lower Upper

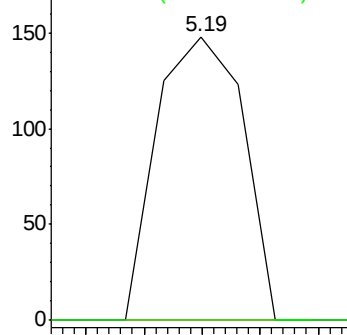
62 100

98 0.0 6.4 9.6#

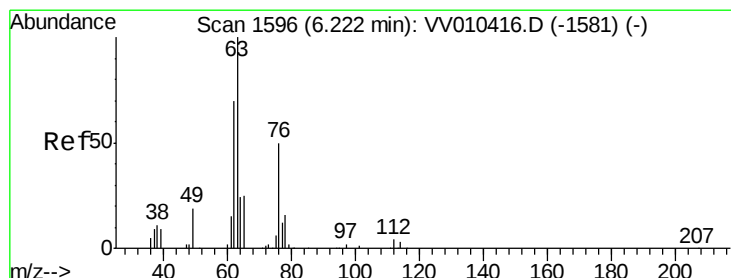
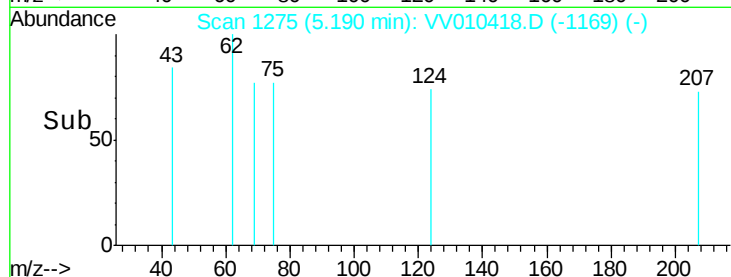


Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



Time-->



#40

1,2-Dichloropropane

Concen: 3.043 ug/L

RT: 6.13 min Scan# 1567

Delta R.T. -0.09 min

Lab File: VV010418.D

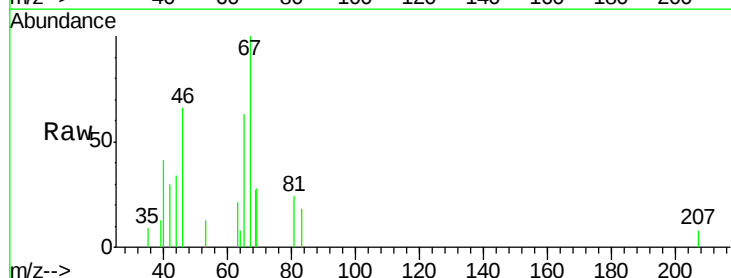
Acq: 22 Apr 2019 17:36

Tgt Ion: 63 Resp: 189

Ion Ratio Lower Upper

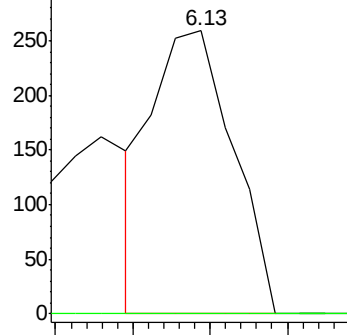
63 100

112 0.0 3.5 5.3#

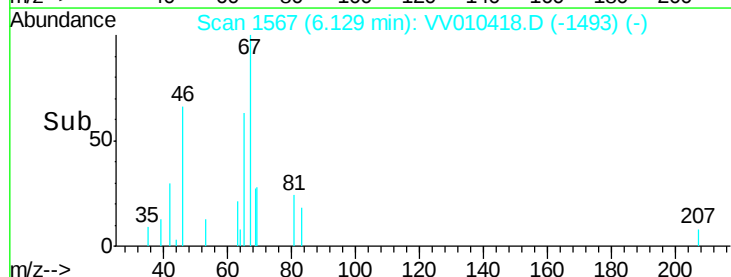


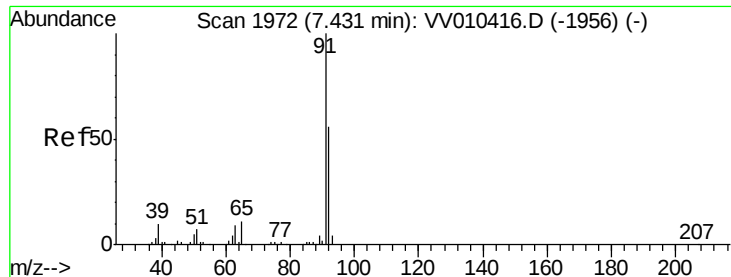
Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V



Time-->





#44

Toluene

Concen: 1.059 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Instrument :

MSVOA_V

ClientSampled :

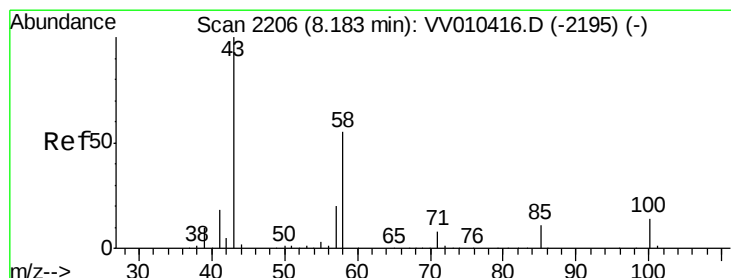
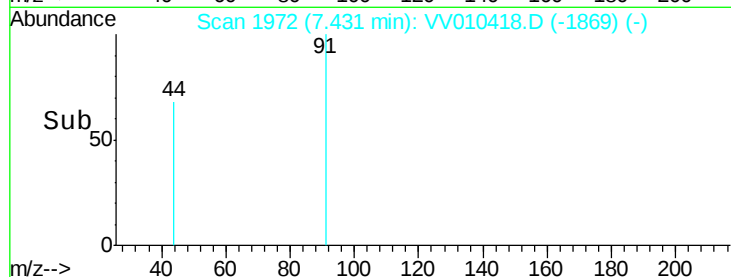
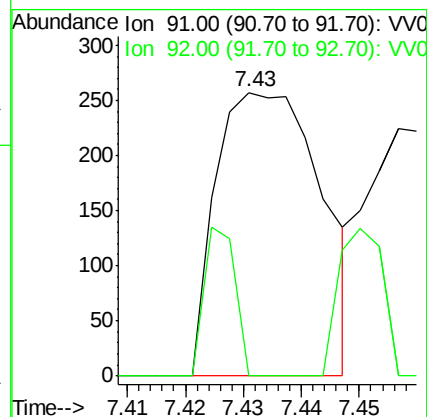
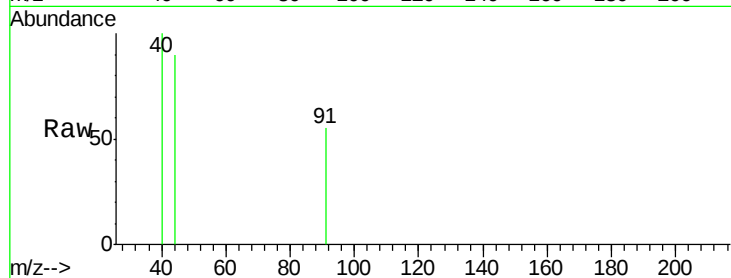
GAHP2

Tot Ion: 91 Resp: 323

Ion Ratio Lower Upper

91 100

92 0.0 40.5 75.1#



#49

2-Hexanone

Concen: 4.306 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. 0.01 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Tgt Ion: 43 Resp: 141

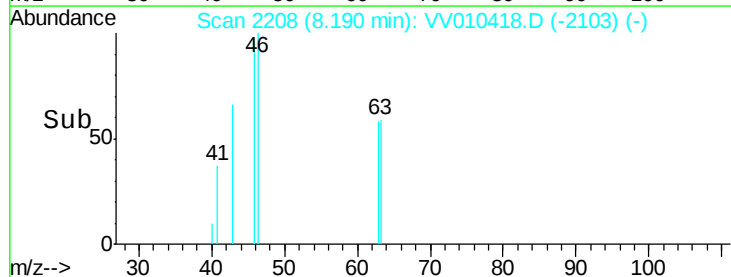
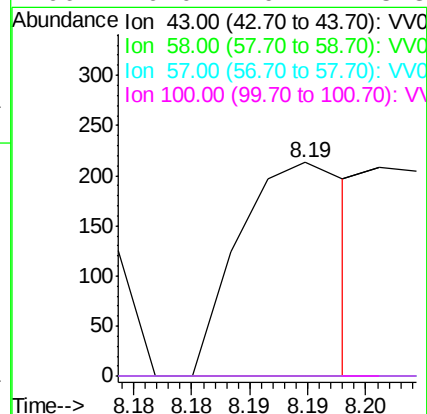
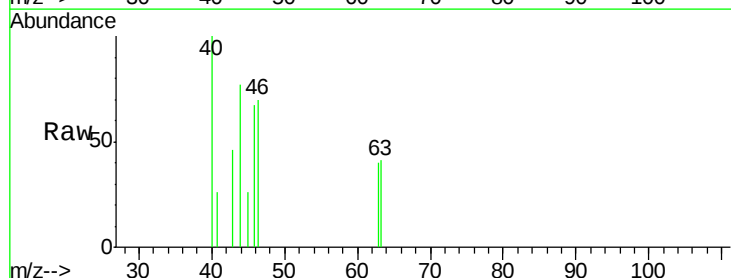
Ion Ratio Lower Upper

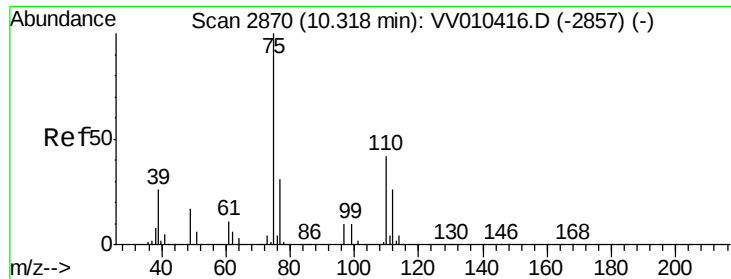
43 100

58 0.0 37.6 56.4#

57 0.0 15.8 23.8#

100 0.0 9.2 13.8#

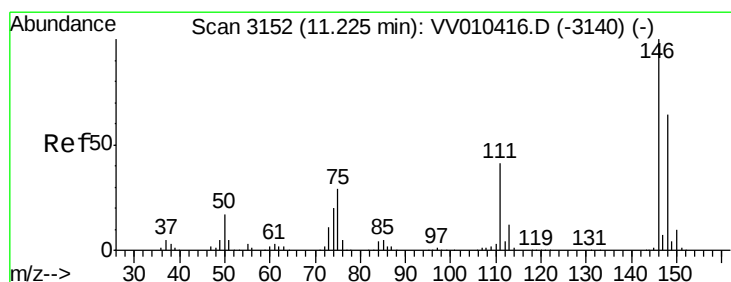
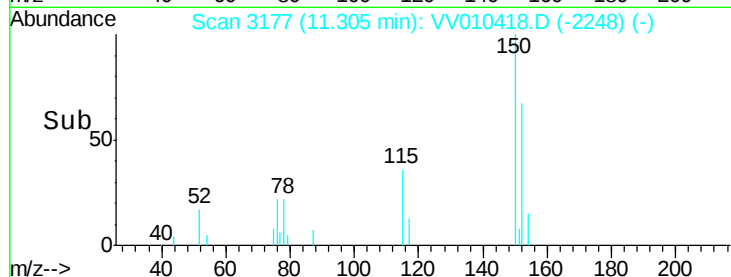
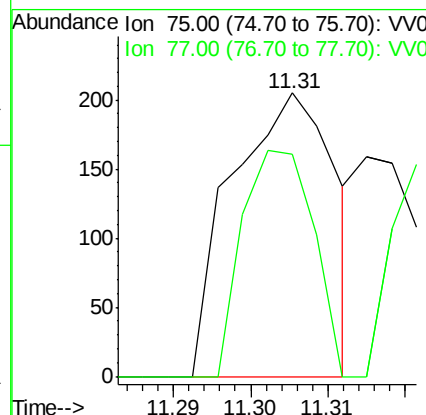
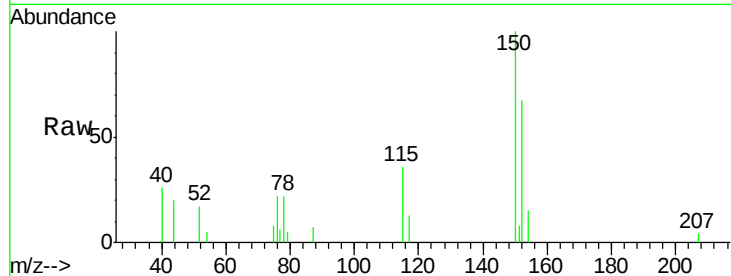




#59
 1,2,3-Trichloropropane
 Concen: 3.573 ug/L
 RT: 11.31 min Scan# 3177
 Delta R.T. 0.99 min
 Lab File: VV010418.D
 Acq: 22 Apr 2019 17:36

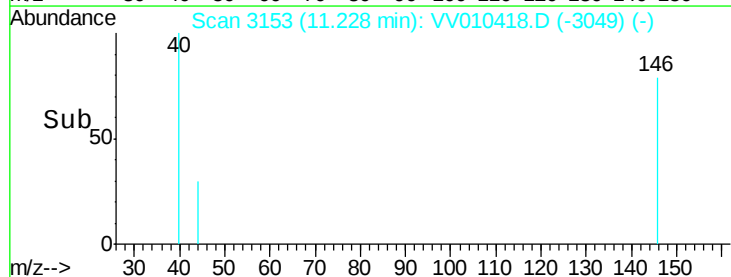
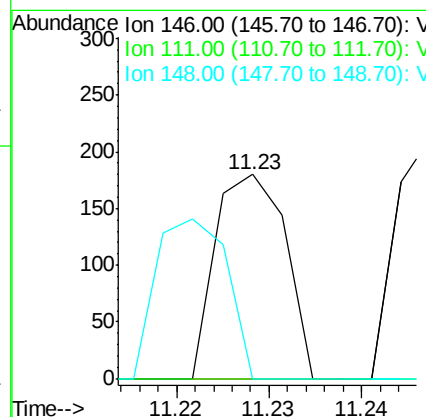
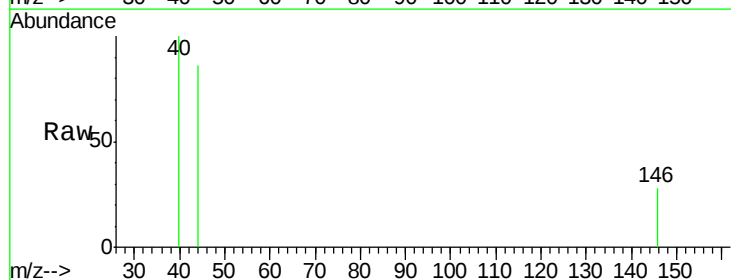
Instrument :
 MSVOA_V
 ClientSampleId :
 GAHP2

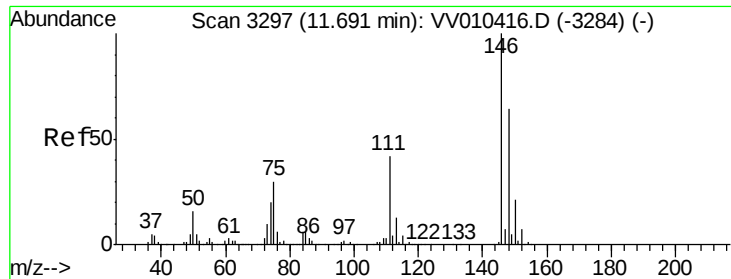
Tot Ion: 75 Resp: 191
 Ion Ratio Lower Upper
 75 100
 77 55.0 26.2 39.2#



#63
 1,3-Dichlorobenzene
 Concen: 0.516 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV010418.D
 Acq: 22 Apr 2019 17:36

Tgt Ion: 146 Resp: 94
 Ion Ratio Lower Upper
 146 100
 111 0.0 28.8 53.4#
 148 0.0 45.6 84.6#





#65

1,2-Dichlorobenzene

Concen: 1.028 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Instrument :

MSVOA_V

ClientSampleId :

GAHP2

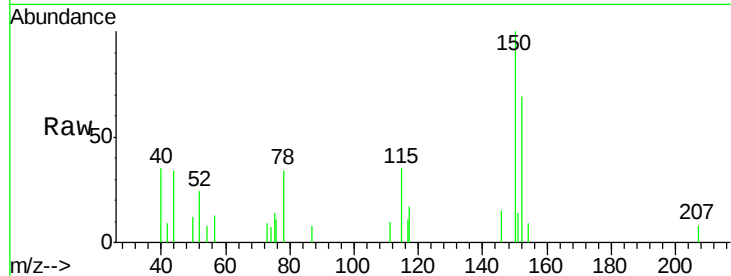
Tot Ion:146 Resp: 182

Ion Ratio Lower Upper

146 100

111 64.4 32.9 49.3#

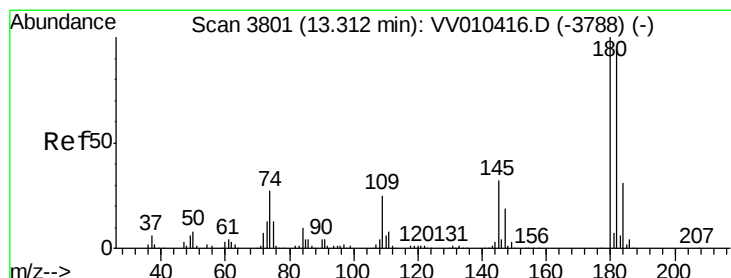
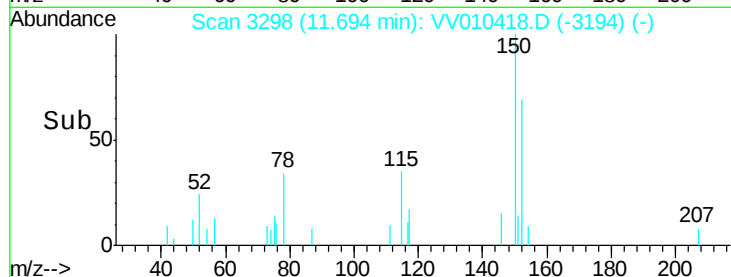
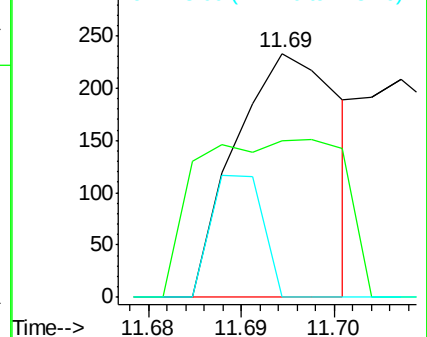
148 0.0 51.4 77.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 1.839 ug/L

RT: 13.31 min Scan# 3802

Delta R.T. 0.00 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

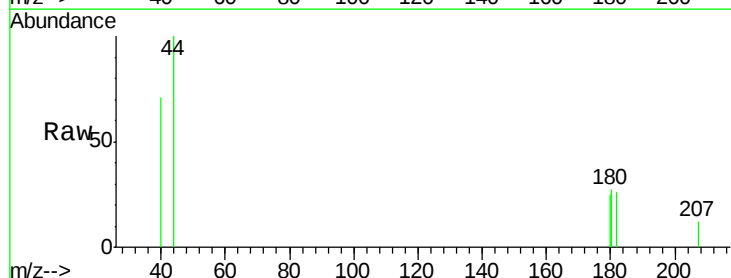
Tgt Ion:180 Resp: 202

Ion Ratio Lower Upper

180 100

182 78.2 76.3 114.5

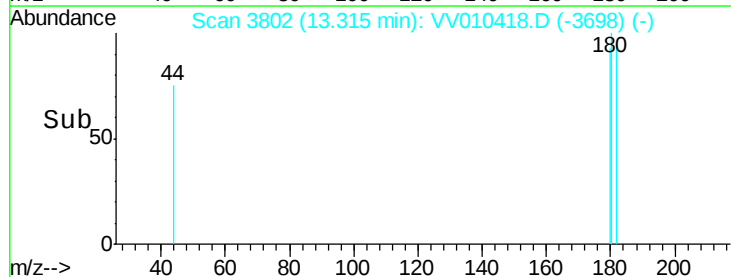
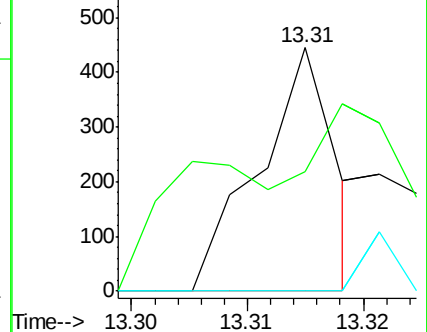
145 0.0 25.1 37.7#

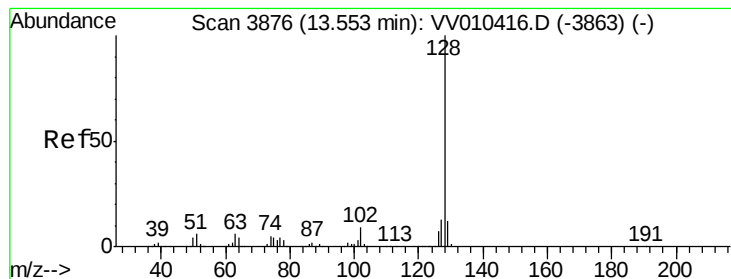


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 11.181 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.01 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Instrument :

MSVOA_V

ClientSampleId :

GAHP2

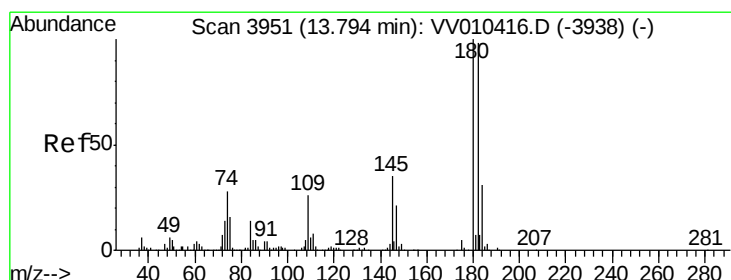
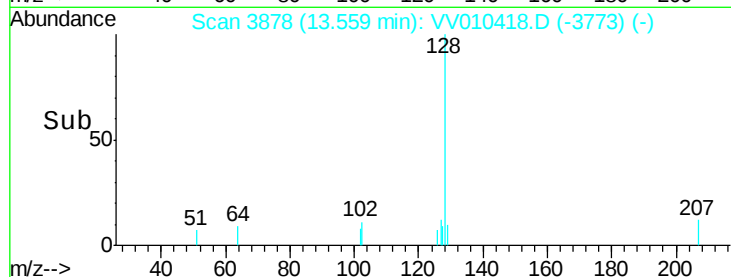
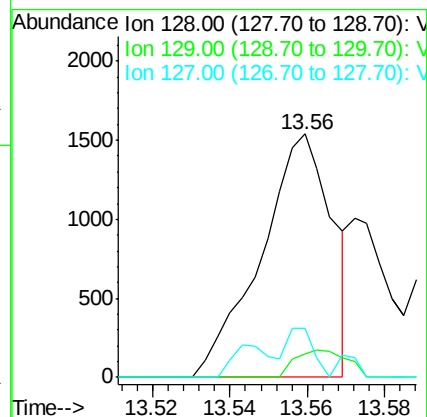
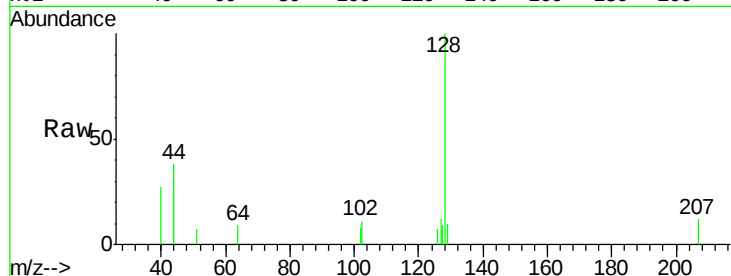
Tot Ion:128 Resp: 1974

Ion Ratio Lower Upper

128 100

129 8.1 8.4 12.6#

127 7.3 10.2 15.2#



#70

1,2,3-Trichlorobenzene

Concen: 2.852 ug/L

RT: 13.80 min Scan# 3954

Delta R.T. 0.01 min

Lab File: VV010418.D

Acq: 22 Apr 2019 17:36

Tgt Ion:180 Resp: 290

Ion Ratio Lower Upper

180 100

182 74.1 76.6 114.8#

145 15.5 25.8 38.8#

