

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV033019\
 Data File : VV010021.D
 Acq On : 30 Mar 2019 15:51
 Operator : SY/MD
 Sample : K2166-04
 Misc : 5.19G/10mL/MSVOA_V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BF106

Quant Time: Mar 30 23:35:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 30 23:31:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	3823	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	4215	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	314	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	697	8.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	35.92%
7) Chloroethane-d5	1.58	69	1461	17.44	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.76%
10) 1,1-Dichloroethene-d2	2.14	63	1023	4.82	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	19.28%#
20) 2-Butanone-d5	3.95	46	780	53.95	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.90%
24) Chloroform-d	4.41	84	3642	37.39	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	149.56%
26) 1,2-Dichloroethane-d4	5.09	65	3317	56.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	226.36%#
29) Benzene-d6	5.11	84	5718	25.83	ug/L	0.01
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.32%
33) 1,2-Dichloropropane-d6	6.13	67	2440	37.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	150.72%#
37) Toluene-d8	7.36	98	3821	18.24	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	72.96%
38) trans-1,3-Dichloropropene-	7.67	79	408	15.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	61.60%
39) 2-Hexanone-d5	8.14	63	161	13.32	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	26.64%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	3109	48.49	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	193.96%#
61) 1,2-Dichlorobenzene-d4	11.68	152	1269	106.15	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	424.60%#

Target Compounds

					Qvalue
3) Chloromethane	1.26	50	178	2.602 ug/L #	31
5) Vinyl chloride	1.32	62	40	0.450 ug/L #	1
6) Bromomethane	1.55	94	247	2.784 ug/L	80
8) Chloroethane	1.46	64	178	2.323 ug/L	94
13) Acetone	2.17	43	44	2.010 ug/L #	45
15) Methyl Acetate	2.45	43	70	2.730 ug/L #	49
16) Methylene chloride	2.55	84	313	4.972 ug/L	91
19) 1,1-Dichloroethane	3.16	63	43	0.469 ug/L #	48
21) 2-Butanone	4.02	43	46	2.360 ug/L #	54
25) Chloroform	4.43	83	49	0.484 ug/L #	17
35) Trichloroethene	5.67	95	41	0.672 ug/L #	5
36) Methylcyclohexane	6.12	83	386	4.030 ug/L #	20
40) 1,2-Dichloropropane	6.18	63	45	0.778 ug/L #	92
41) Bromodichloromethane	6.84	83	43	0.598 ug/L #	24
42) cis-1,3-Dichloropropene	7.06	75	44	0.522 ug/L #	43
43) 4-Methyl-2-pentanone	7.27	43	72	1.744 ug/L #	46
47) Tetrachloroethene	8.02	164	2078	43.132 ug/L #	83

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Quant Title : VOC Analysis
QLast Update : Sat Mar 30 23:31:11 2019
Response via : Initial Calibration

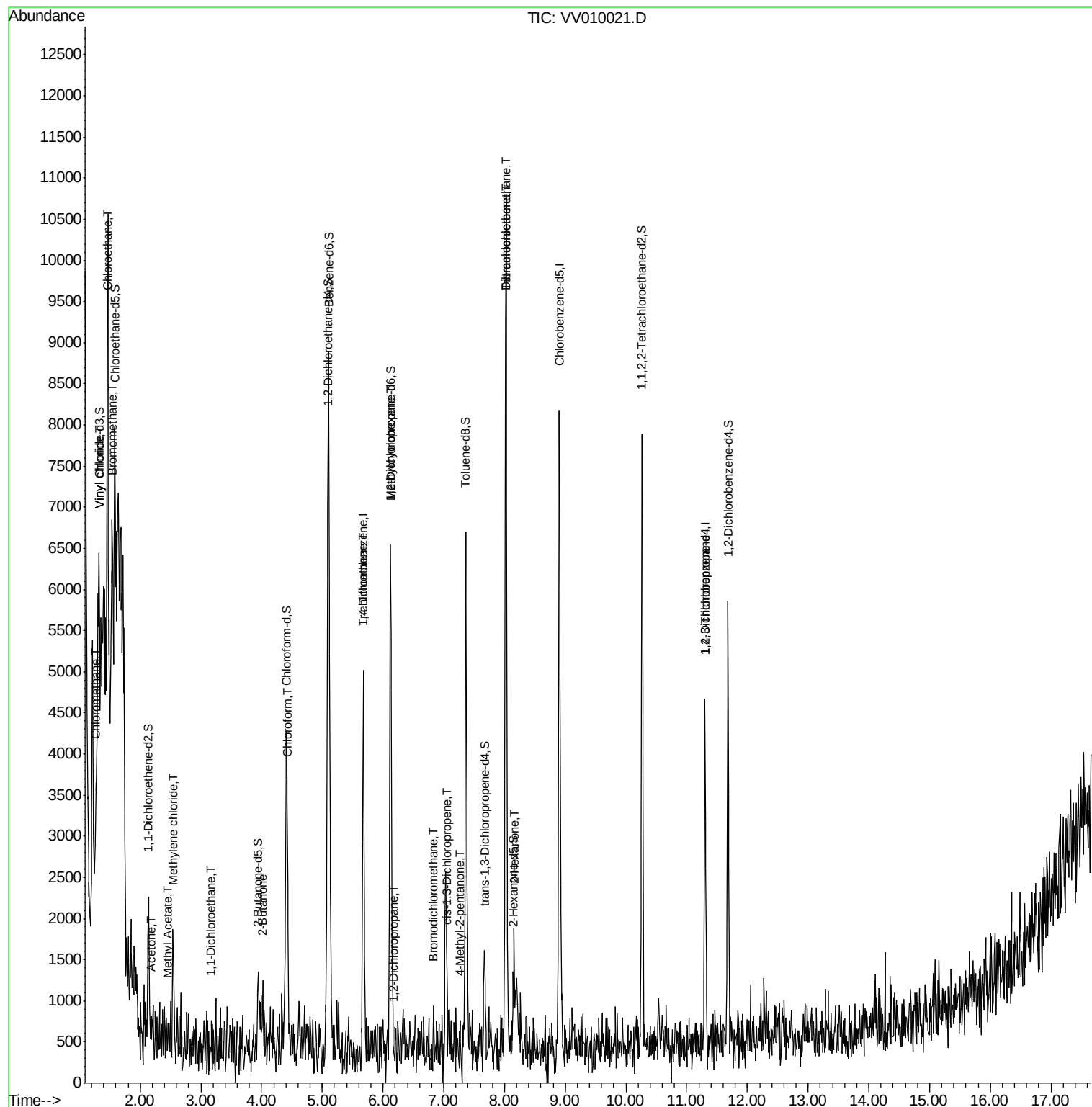
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) 2-Hexanone	8.16	43	80	2.868	ug/L #	39
50) Dibromochloromethane	8.03	129	2288	46.129	ug/L #	8
59) 1,2,3-Trichloropropane	11.31	75	144	3.094	ug/L #	42

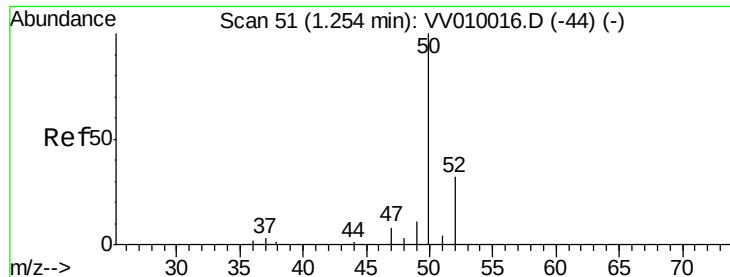
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 2.602 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Instrument :

MSVOA_V

ClientSampleID :

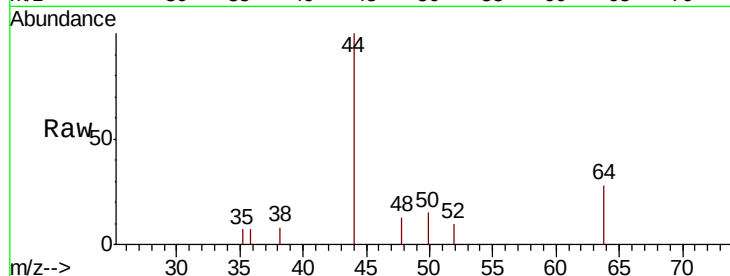
BF106

Tgt Ion: 50 Resp: 178

Ion Ratio Lower Upper

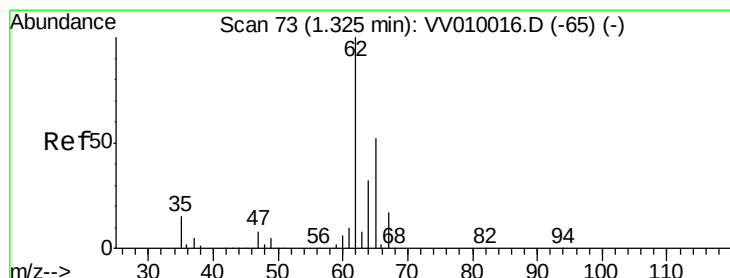
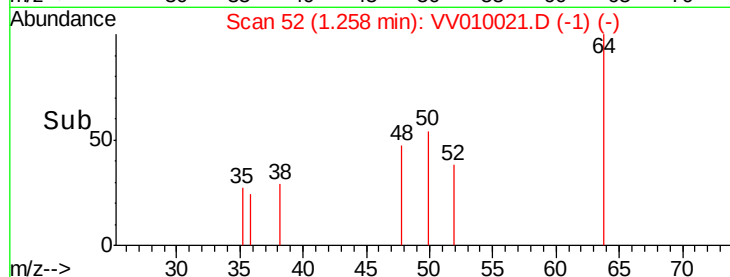
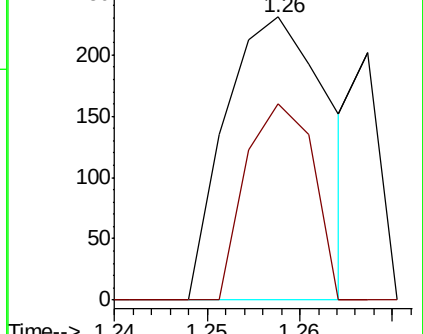
50 100

52 69.3 21.8 40.6#



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



#5

Vinyl chloride

Concen: 0.450 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV010021.D

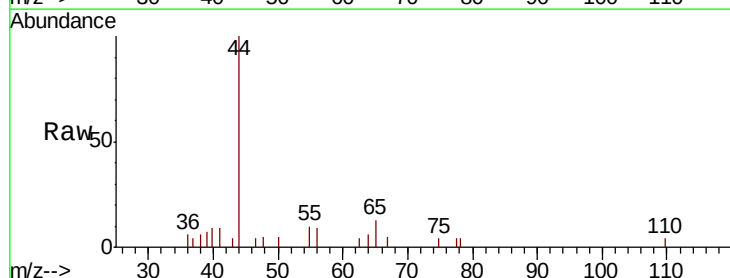
Acq: 30 Mar 2019 15:51

Tgt Ion: 62 Resp: 40

Ion Ratio Lower Upper

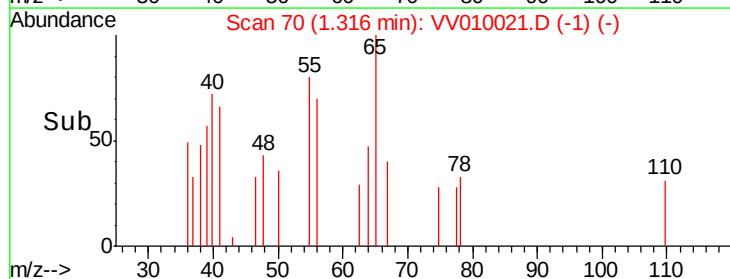
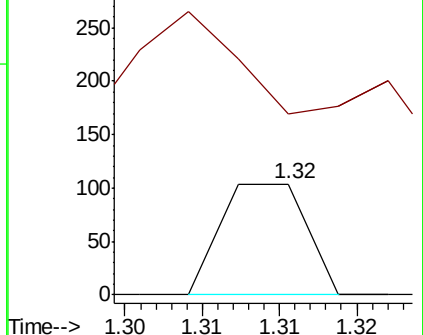
62 100

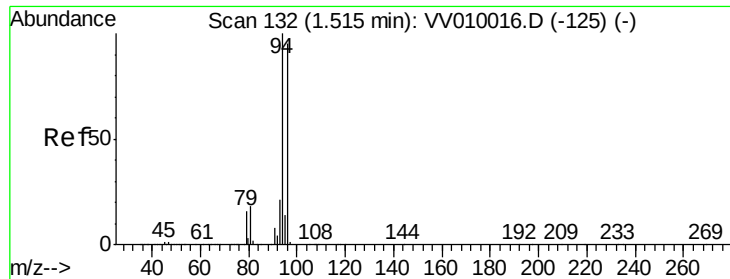
64 163.5 22.8 42.4#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0





#6

Bromomethane

Concen: 2.784 ug/L

RT: 1.55 min Scan# 143

Delta R.T. 0.04 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Instrument :

MSVOA_V

ClientSampled :

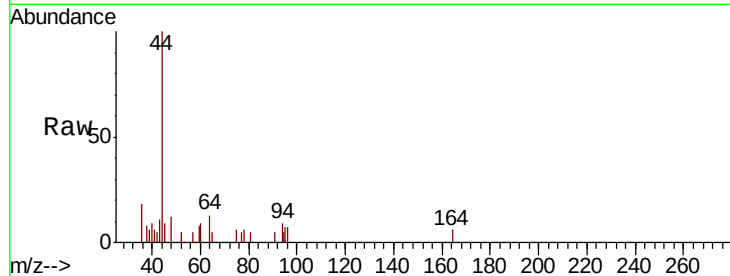
BF106

Tgt Ion: 94 Resp: 247

Ion Ratio Lower Upper

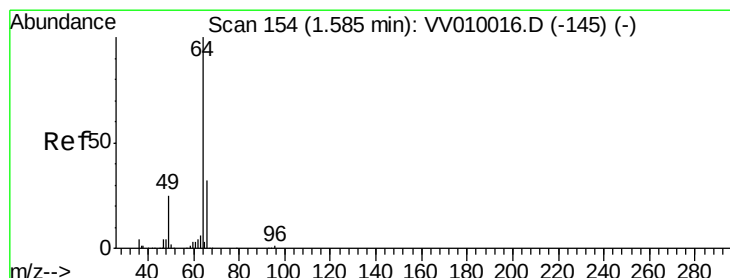
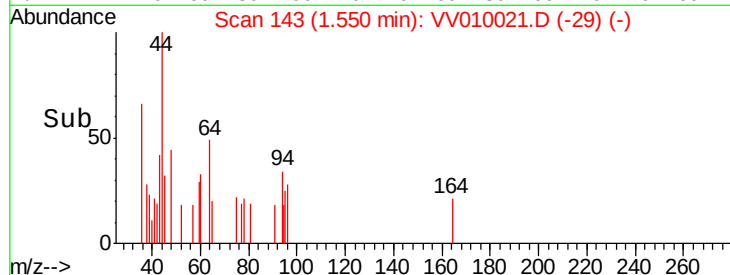
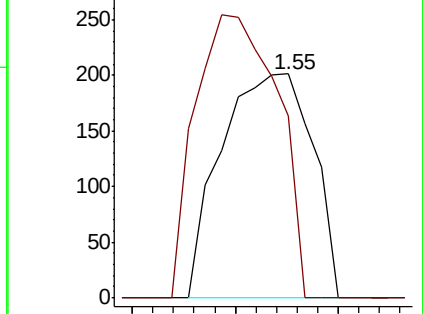
94 100

96 113.4 9.4 179.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



#8

Chloroethane

Concen: 2.323 ug/L

RT: 1.46 min Scan# 116

Delta R.T. -0.12 min

Lab File: VV010021.D

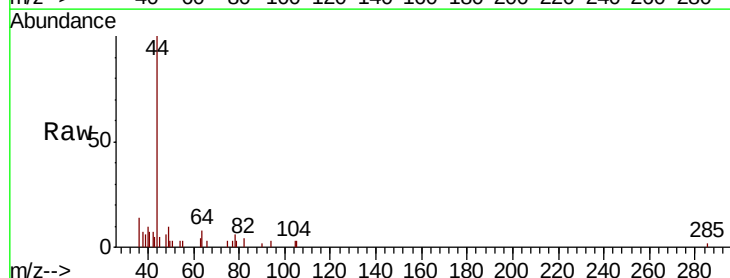
Acq: 30 Mar 2019 15:51

Tgt Ion: 64 Resp: 178

Ion Ratio Lower Upper

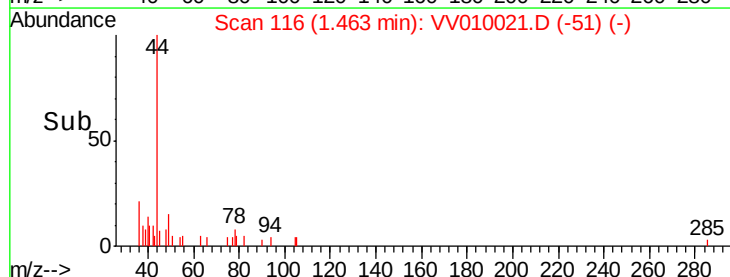
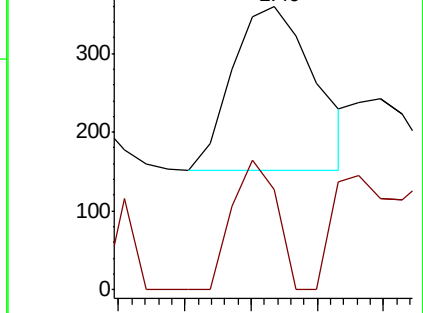
64 100

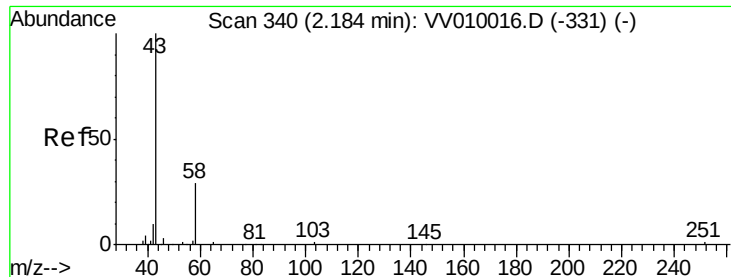
66 35.4 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0





#13

Acetone

Concen: 2.010 ug/L

RT: 2.17 min Scan# 337

Delta R.T. -0.01 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Instrument :

MSVOA_V

ClientSampled :

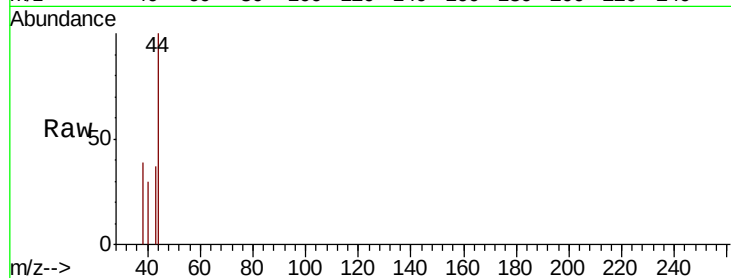
BF106

Tgt Ion: 43 Resp: 44

Ion Ratio Lower Upper

43 100

58 0.0 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV010016.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV010016.D (-331) (-)

2.17

150

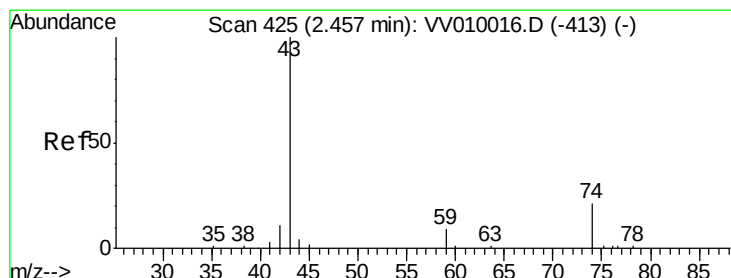
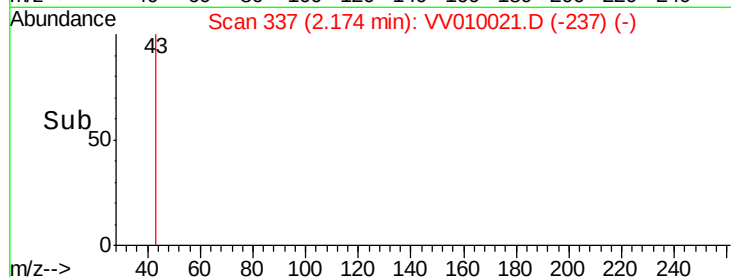
100

50

0

2.17 2.17 2.17 2.18 2.19

Time-->



#15

Methyl Acetate

Concen: 2.730 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.00 min

Lab File: VV010021.D

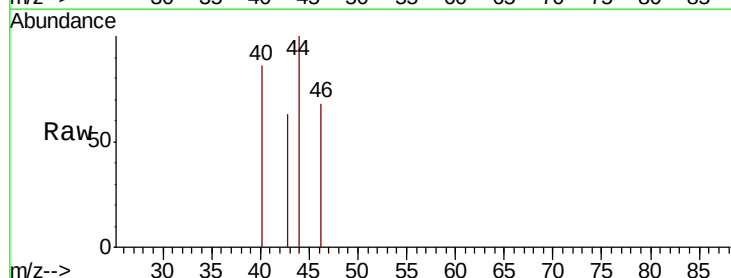
Acq: 30 Mar 2019 15:51

Tgt Ion: 43 Resp: 70

Ion Ratio Lower Upper

43 100

74 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VV010016.D (-413) (-)

Ion 74.00 (73.70 to 74.70): VV010016.D (-413) (-)

2.45

150

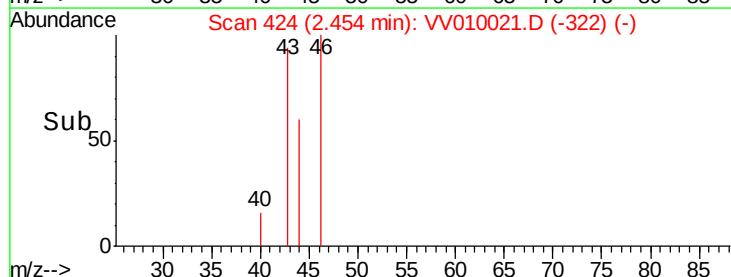
100

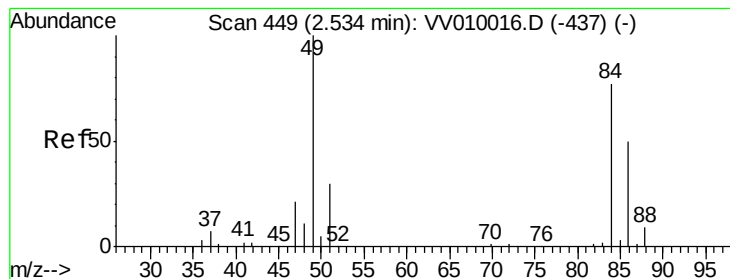
50

0

2.44 2.45 2.46 2.46

Time-->





#16

Methylene chloride

Concen: 4.972 ug/L

RT: 2.55 min Scan# 453

Delta R.T. 0.01 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

BF106

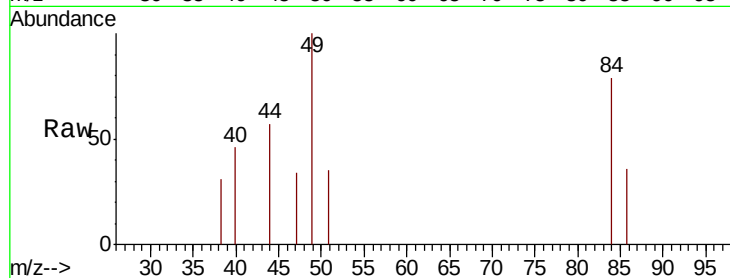
Tgt Ion: 84 Resp: 313

Ion Ratio Lower Upper

84 100

49 126.7 90.4 167.8

86 45.6 44.0 81.6

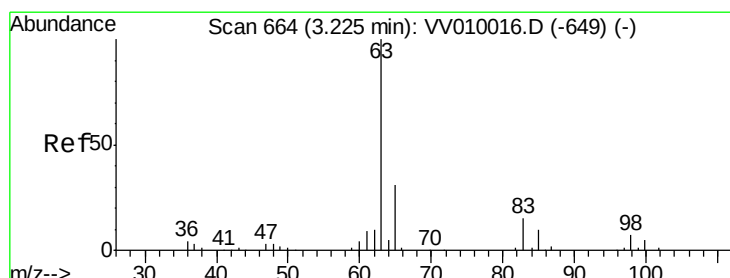
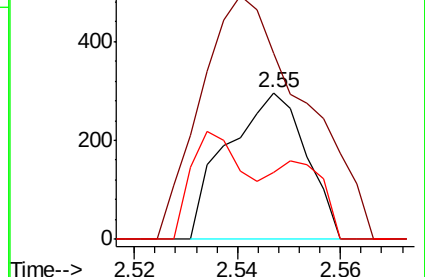
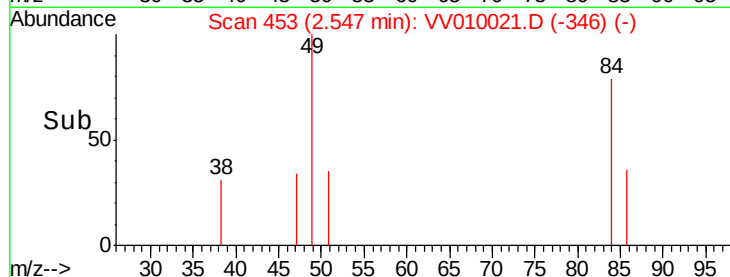


Abundance Ion 84.00 (83.70 to 84.70): VV010021.D (-453) (-)

Ion 49.00 (48.70 to 49.70): VV010021.D (-453) (-)

Ion 86.00 (85.70 to 86.70): VV010021.D (-453) (-)

Time-->



#19

1,1-Dichloroethane

Concen: 0.469 ug/L

RT: 3.16 min Scan# 645

Delta R.T. -0.06 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

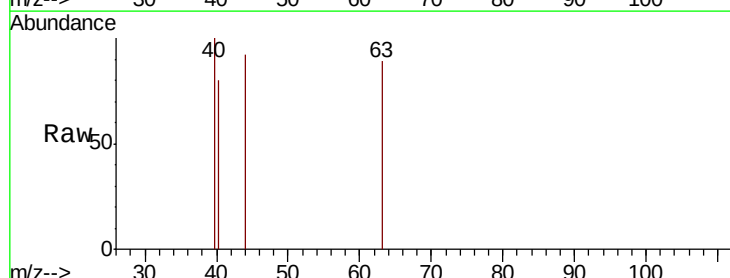
Tgt Ion: 63 Resp: 43

Ion Ratio Lower Upper

63 100

65 0.0 23.2 43.0#

83 0.0 11.3 21.1#

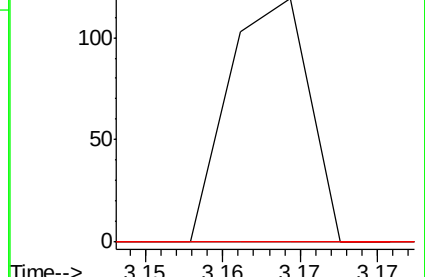
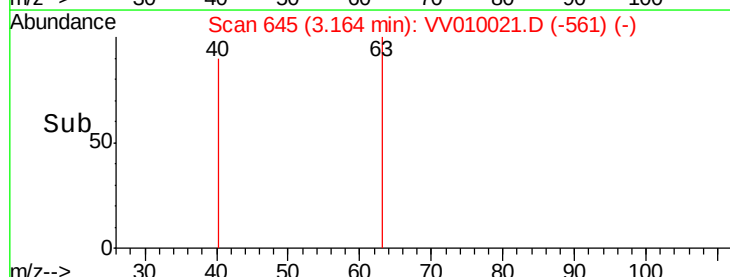


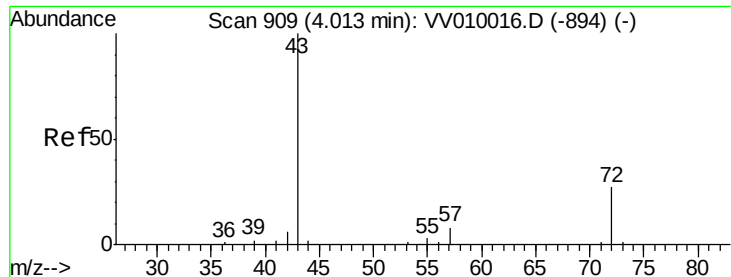
Abundance Ion 63.00 (62.70 to 63.70): VV010021.D (-645) (-)

Ion 65.00 (64.70 to 65.70): VV010021.D (-645) (-)

Ion 83.00 (82.70 to 83.70): VV010021.D (-645) (-)

Time-->





#21

2-Butanone

Concen: 2.360 ug/L

RT: 4.02 min Scan# 911

Delta R.T. 0.01 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Instrument :

MSVOA_V

ClientSampled :

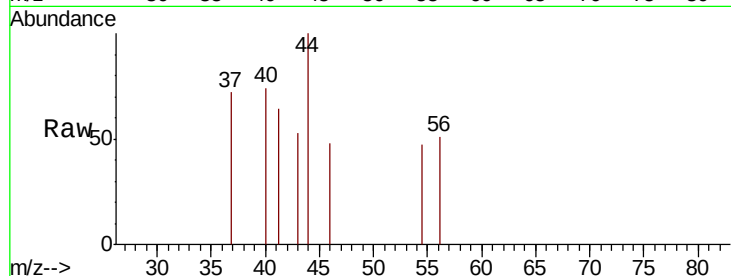
BF106

Tgt Ion: 43 Resp: 46

Ion Ratio Lower Upper

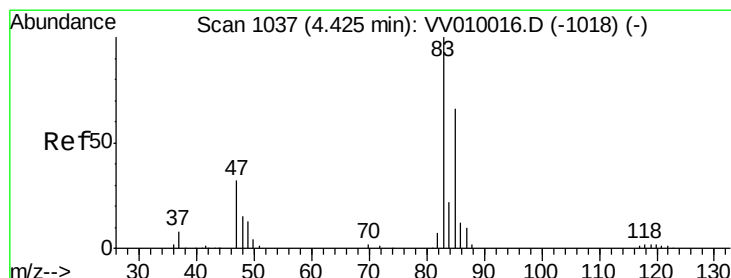
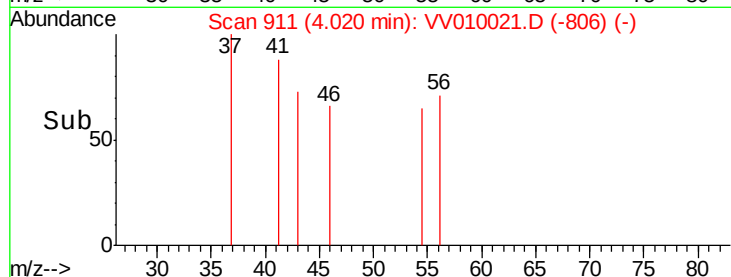
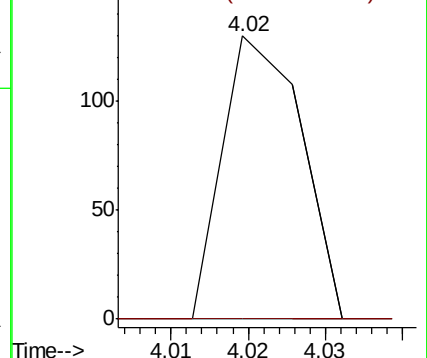
43 100

72 0.0 11.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VV010021.D (-911) (-)

Ion 72.00 (71.70 to 72.70): VV010021.D (-911) (-)



#25

Chloroform

Concen: 0.484 ug/L

RT: 4.43 min Scan# 1039

Delta R.T. 0.01 min

Lab File: VV010021.D

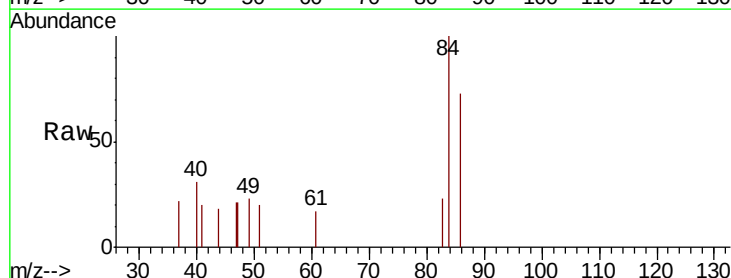
Acq: 30 Mar 2019 15:51

Tgt Ion: 83 Resp: 49

Ion Ratio Lower Upper

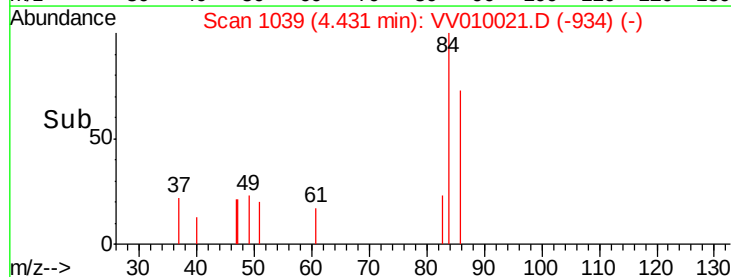
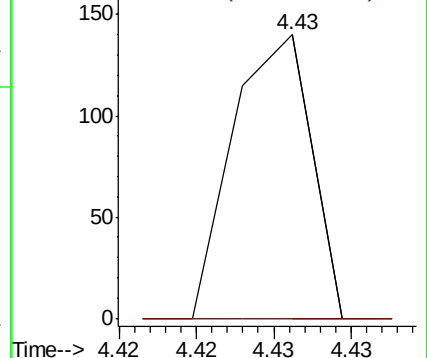
83 100

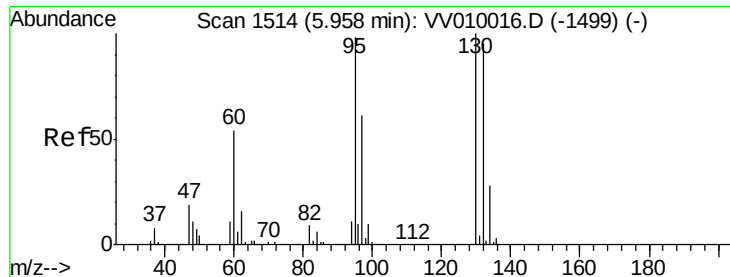
85 0.0 46.1 85.7#



Abundance Ion 83.00 (82.70 to 83.70): VV010021.D (-1039) (-)

Ion 85.00 (84.70 to 85.70): VV010021.D (-1039) (-)





#35

Trichloroethene

Concen: 0.672 ug/L

RT: 5.67 min Scan# 1424

Delta R.T. -0.29 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

BF106

Tgt Ion: 95 Resp: 41

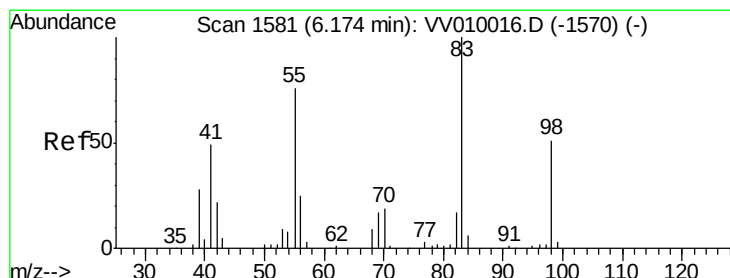
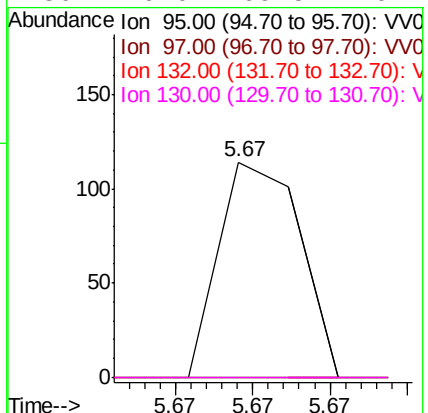
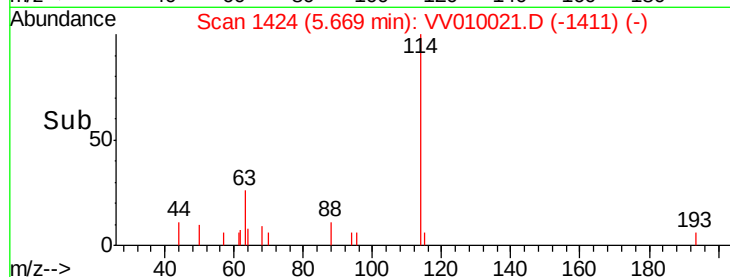
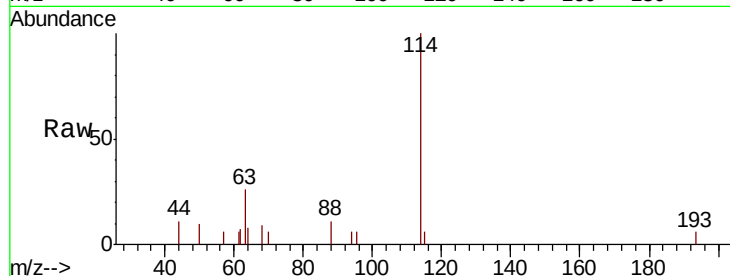
Ion Ratio Lower Upper

95 100

97 0.0 46.3 85.9#

132 0.0 69.3 128.7#

130 0.0 69.5 129.1#



#36

Methylcyclohexane

Concen: 4.030 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.05 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

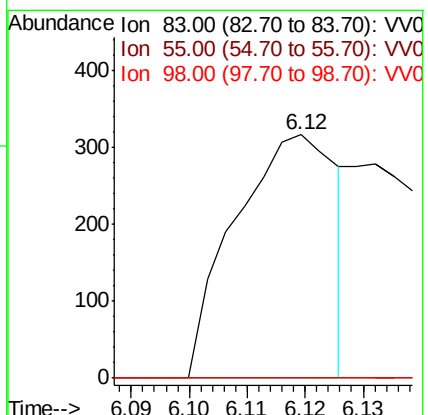
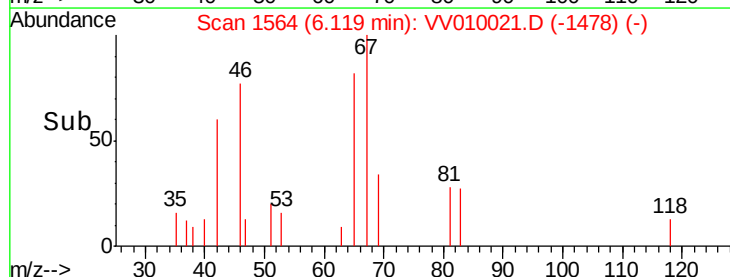
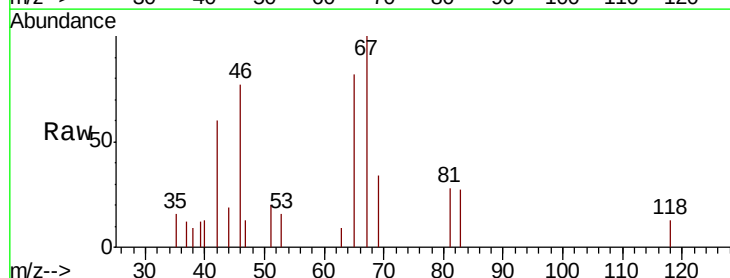
Tgt Ion: 83 Resp: 386

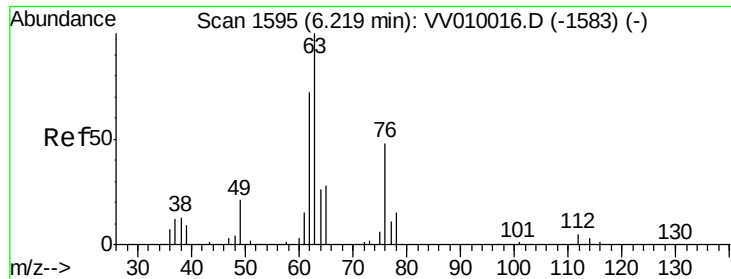
Ion Ratio Lower Upper

83 100

55 0.0 57.3 85.9#

98 0.0 39.2 58.8#

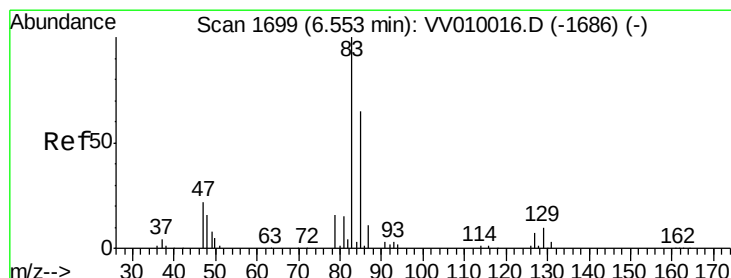
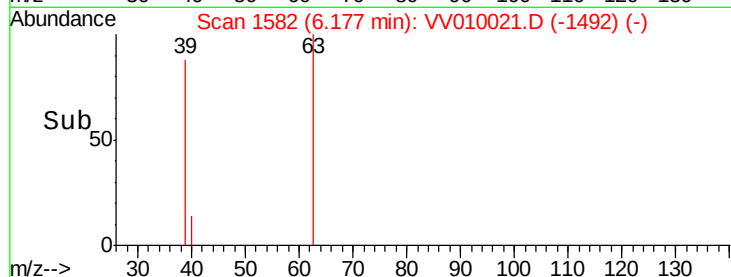
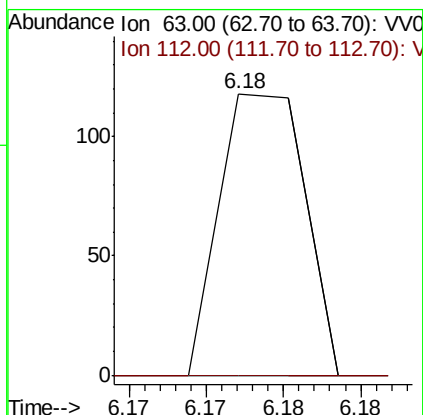
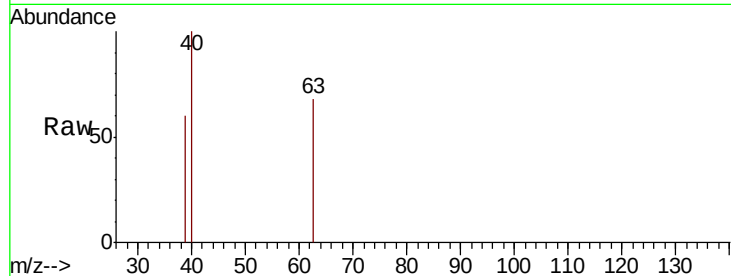




#40
 1,2-Dichloropropane
 Concen: 0.778 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.04 min
 Lab File: VV010021.D
 Acq: 30 Mar 2019 15:51

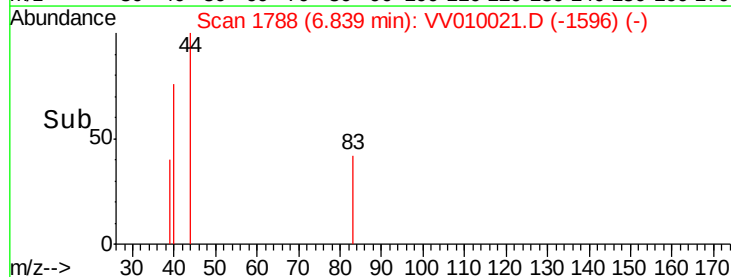
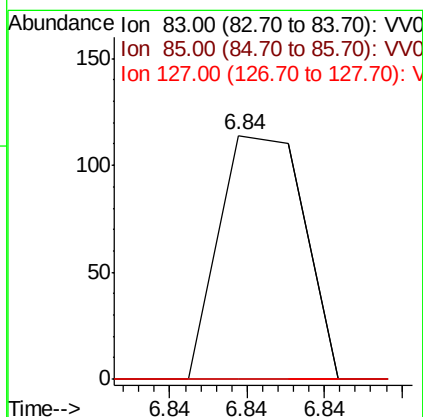
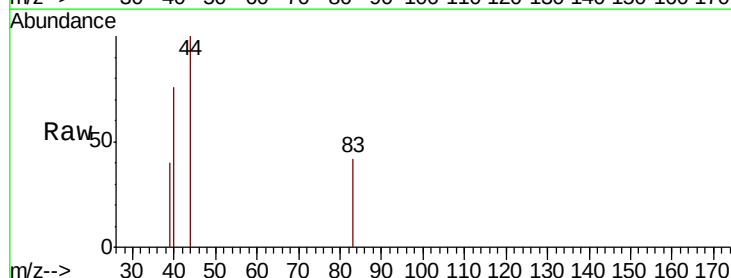
Instrument :
 MSVOA_V
 ClientSampled :
 BF106

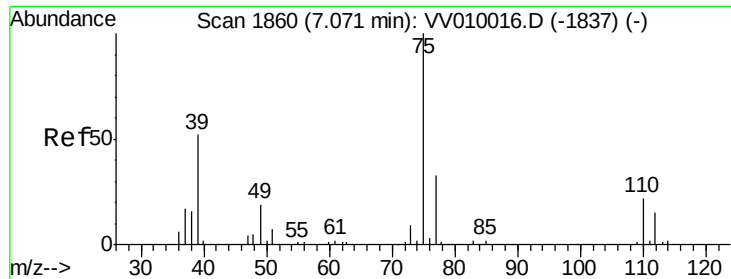
Tgt Ion: 63 Resp: 45
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.1 3.1#



#41
 Bromodichloromethane
 Concen: 0.598 ug/L
 RT: 6.84 min Scan# 1788
 Delta R.T. 0.29 min
 Lab File: VV010021.D
 Acq: 30 Mar 2019 15:51

Tgt Ion: 83 Resp: 43
 Ion Ratio Lower Upper
 83 100
 85 0.0 45.6 84.8#
 127 0.0 6.2 9.4#

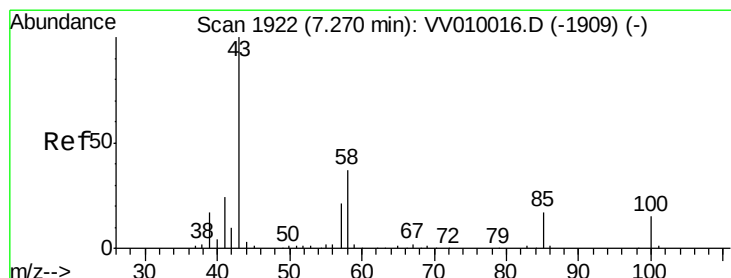
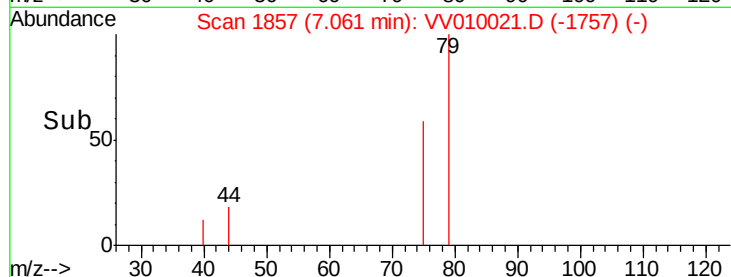
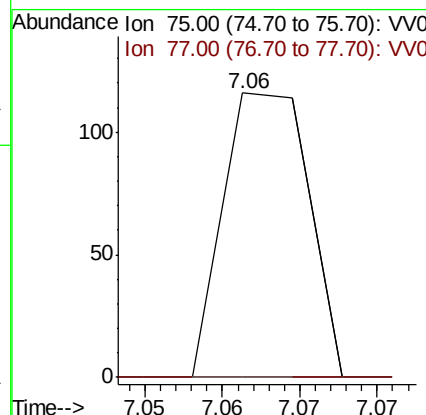
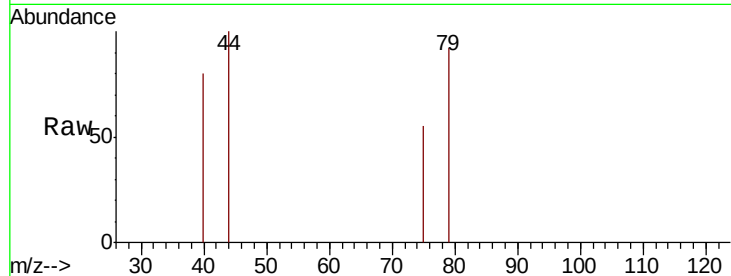




#42
 cis-1,3-Dichloropropene
 Concen: 0.522 ug/L
 RT: 7.06 min Scan# 1857
 Delta R.T. -0.01 min
 Lab File: VV010021.D
 Acq: 30 Mar 2019 15:51

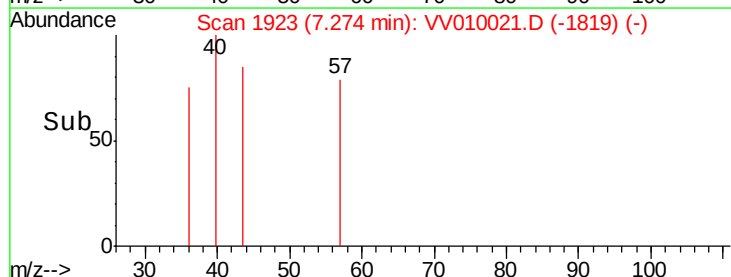
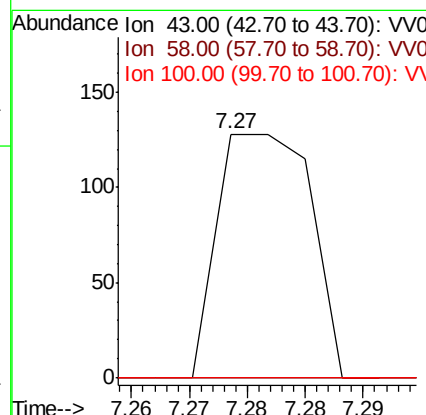
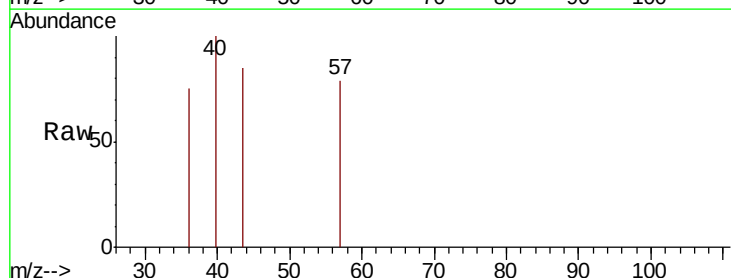
Instrument :
 MSVOA_V
 ClientSampled :
 BF106

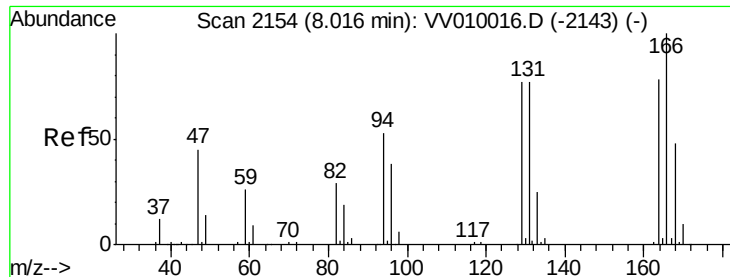
Tgt Ion: 75 Resp: 44
 Ion Ratio Lower Upper
 75 100
 77 0.0 21.8 40.6#



#43
 4-Methyl-2-pentanone
 Concen: 1.744 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV010021.D
 Acq: 30 Mar 2019 15:51

Tgt Ion: 43 Resp: 72
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.4 44.2#
 100 0.0 12.2 18.4#





#47

Tetrachloroethene

Concen: 43.132 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.01 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

BF106

Tgt Ion:164 Resp: 2078

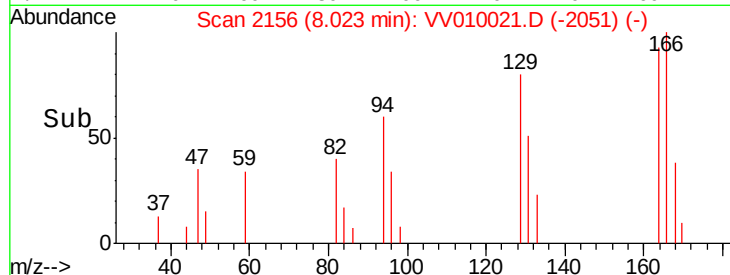
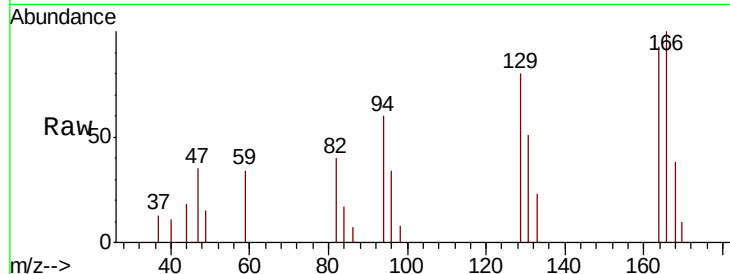
Ion Ratio Lower Upper

164 100

129 86.4 64.9 120.5

131 54.5 62.0 115.2#

166 107.8 82.9 153.9

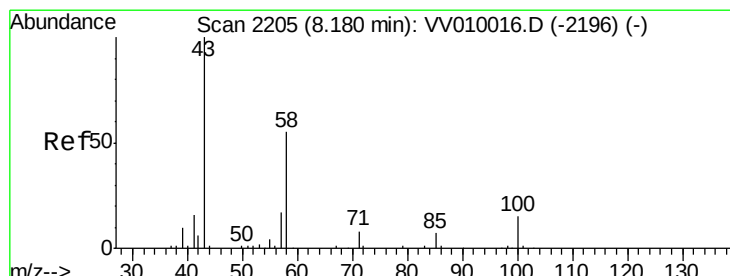
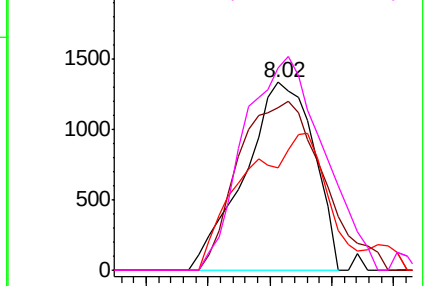


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#49

2-Hexanone

Concen: 2.868 ug/L

RT: 8.16 min Scan# 2200

Delta R.T. -0.02 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Tgt Ion: 43 Resp: 80

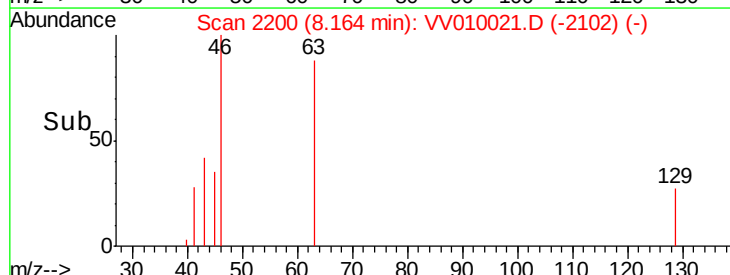
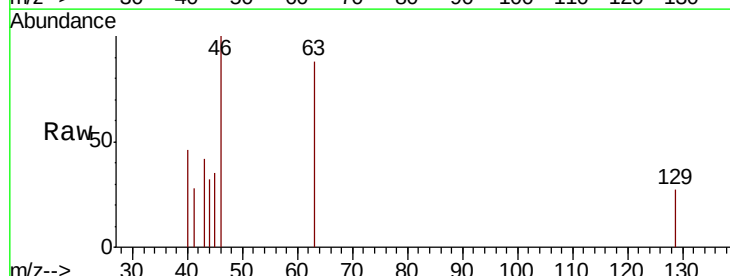
Ion Ratio Lower Upper

43 100

58 0.0 42.0 63.0#

57 0.0 12.9 19.3#

100 0.0 9.1 13.7#

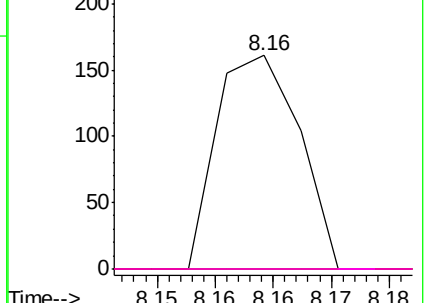


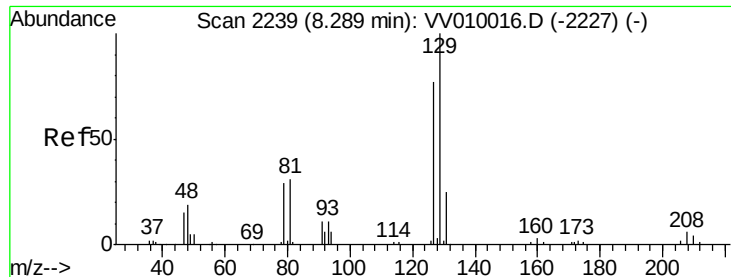
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#50

Dibromochloromethane

Concen: 46.129 ug/L

RT: 8.03 min Scan# 2157

Delta R.T. -0.26 min

Lab File: VV010021.D

Acq: 30 Mar 2019 15:51

Instrument :

MSVOA_V

ClientSampled :

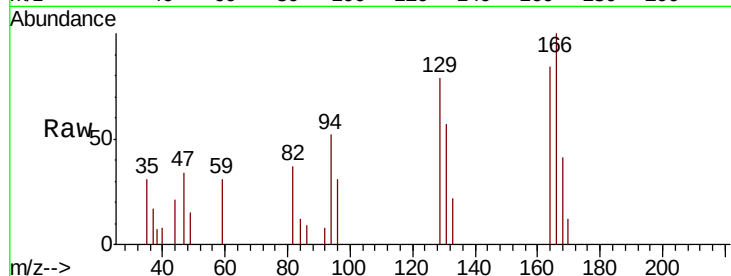
BF106

Tgt Ion:129 Resp: 2288

Ion Ratio Lower Upper

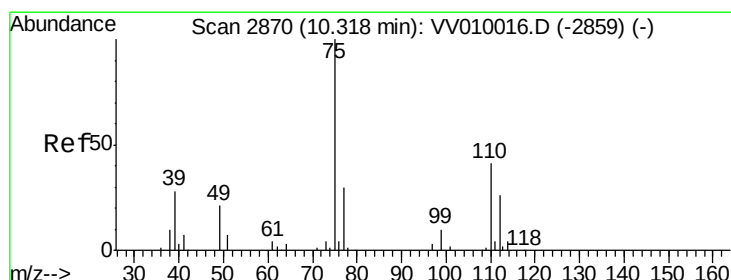
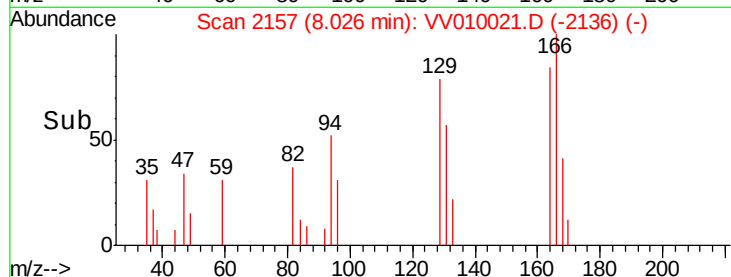
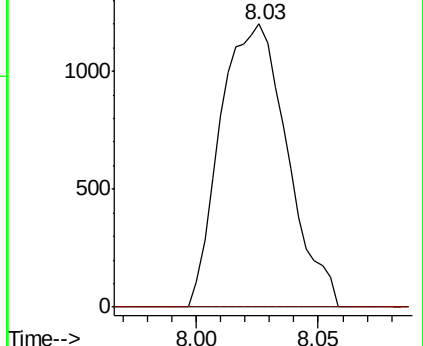
129 100

127 0.0 57.9 107.5#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#59

1,2,3-Trichloropropane

Concen: 3.094 ug/L

RT: 11.31 min Scan# 3177

Delta R.T. 0.99 min

Lab File: VV010021.D

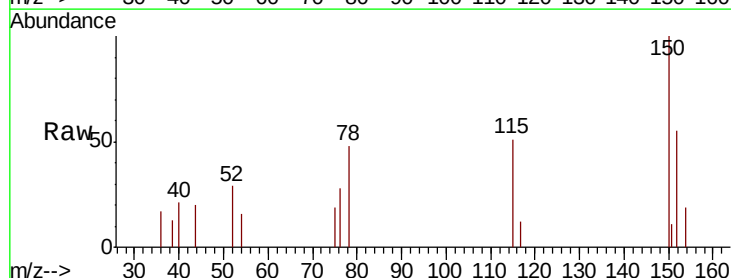
Acq: 30 Mar 2019 15:51

Tgt Ion: 75 Resp: 144

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

