

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010519\
 Data File : VU029038.D
 Acq On : 04 Jan 2019 19:31
 Operator : MD/SY
 Sample : K1053-10 10X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 COMP-4-DRUM

Quant Time: Jan 05 03:49:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 04 02:22:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	111875	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	186904	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	169330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	67104	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	74014	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	
35) Dibromofluoromethane	4.88	113	63777	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	
50) Toluene-d8	7.56	98	238199	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
62) 4-Bromofluorobenzene	10.30	95	71473	41.58	ug/l	0.00
Spiked Amount			Recovery	=	83.16%	

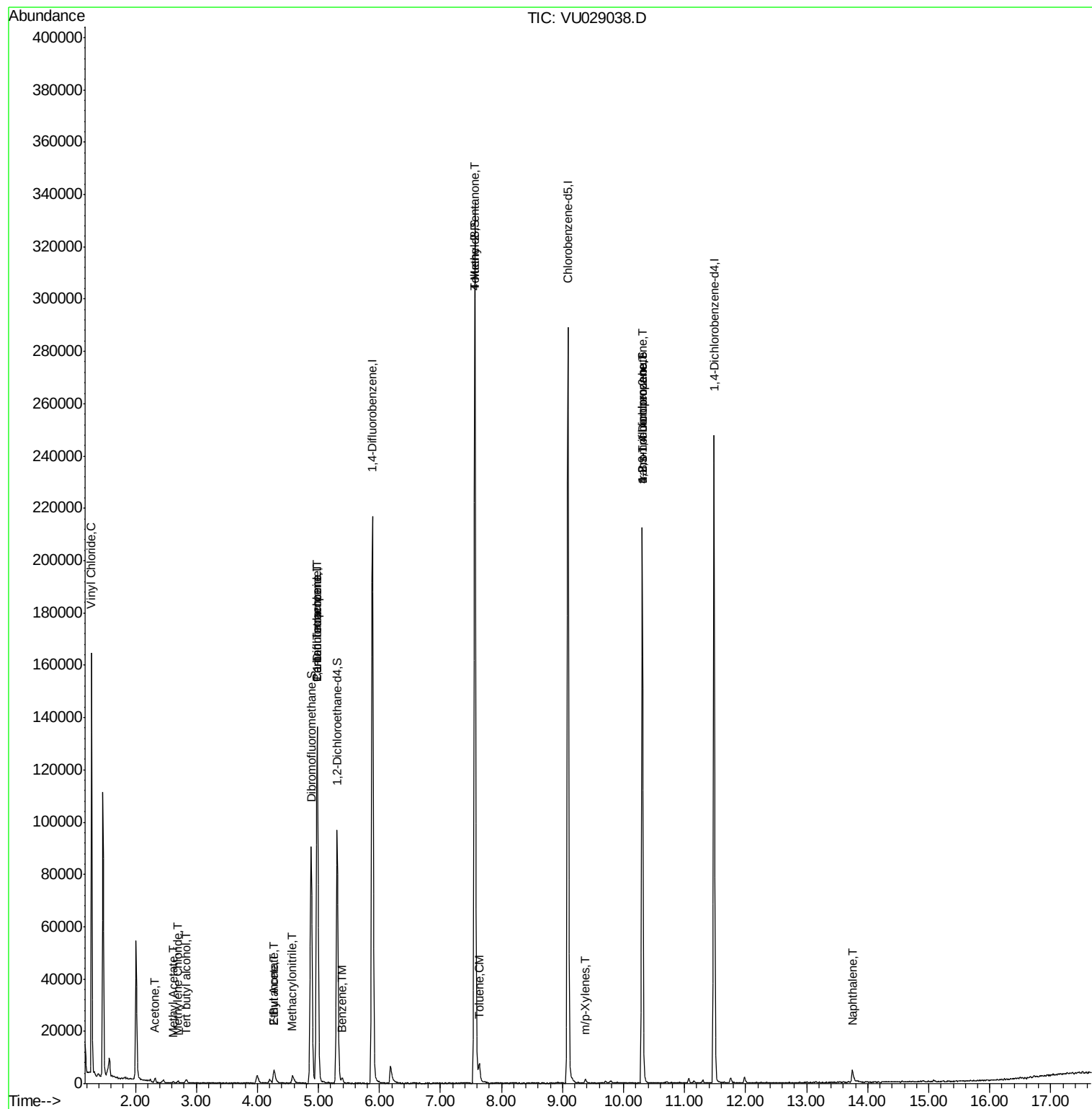
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1130	Below Cal		93
4) Vinyl Chloride	1.28	62	1413	0.864 ug/l #		42
5) Bromomethane	1.62	94	119	Below Cal		88
11) Tert butyl alcohol	2.84	59	1240	3.527 ug/l #		73
16) Acetone	2.32	43	1869	2.145 ug/l		91
17) Carbon Disulfide	2.47	76	46	Below Cal #		75
18) Methyl Acetate	2.62	43	733	0.362 ug/l #		51
20) Methylene Chloride	2.70	84	438	0.296 ug/l #		79
25) 2-Butanone	4.27	43	9199	7.817 ug/l		95
31) Cyclohexane	4.98	56	2044	Below Cal #		1
36) 1,1-Dichloropropene	4.98	75	8022	4.294 ug/l #		48
37) Ethyl Acetate	4.27	43	9199	4.486 ug/l #		66
38) Carbon Tetrachloride	4.98	117	9654	6.196 ug/l #		16
40) Benzene	5.39	78	2106	0.361 ug/l		97
41) Methacrylonitrile	4.58	41	469	0.427 ug/l #		21
51) 4-Methyl-2-Pentanone	7.56	43	899	0.420 ug/l #		1
52) Toluene	7.64	92	2698	0.761 ug/l		87
68) m/p-Xylenes	9.38	106	730	0.296 ug/l		77
76) 1,2,3-Trichloropropane	10.30	75	34445	20.950 ug/l #		35
81) trans-1,4-Dichloro-2-buten	10.30	75	34445	54.031 ug/l #		100
95) Naphthalene	13.75	128	7094	1.366 ug/l #		87

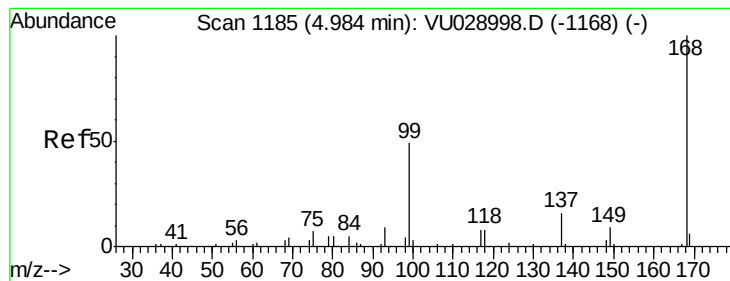
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Instrument :

MSVOA_U

ClientSampleId :

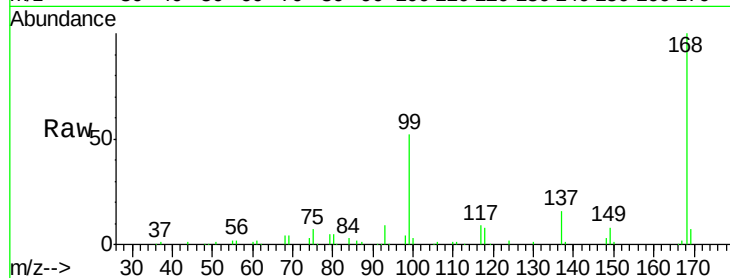
COMP-4-DRUM

Tot Ion:168 Resp: 111875

Ion Ratio Lower Upper

168 100

99 51.9 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.98

50000

40000

30000

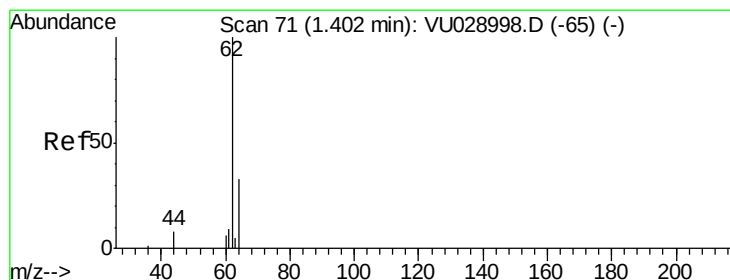
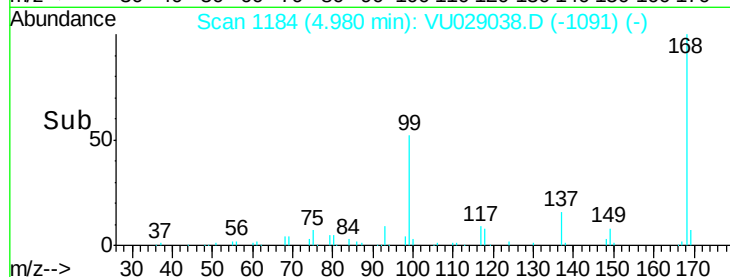
20000

10000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#4

Vinyl Chloride

Concen: 0.864 ug/l

RT: 1.28 min Scan# 34

Delta R.T. -0.12 min

Lab File: VU029038.D

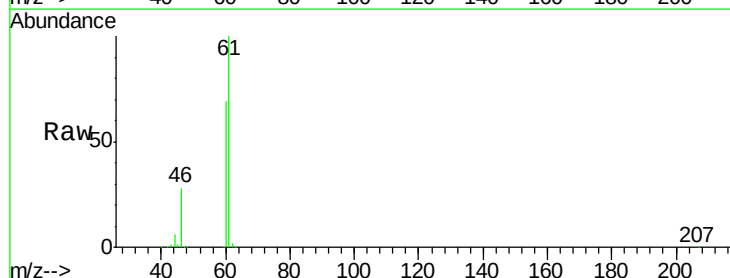
Acq: 04 Jan 2019 19:31

Tgt Ion: 62 Resp: 1413

Ion Ratio Lower Upper

62 100

64 0.0 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VU028998.D (-65) (-)

Ion 63.90 (63.60 to 64.60): VU028998.D (-65) (-)

1.28

1500

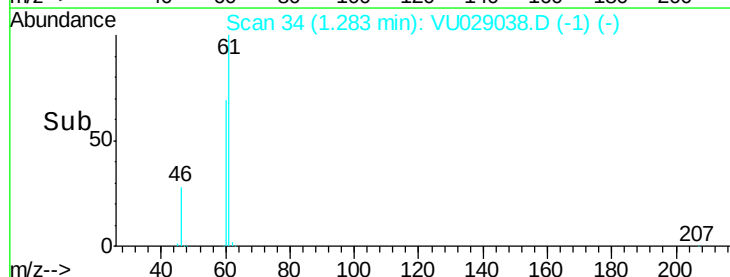
1000

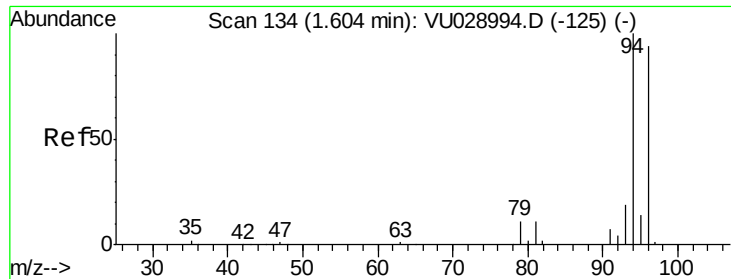
500

0

1.26 1.28 1.30

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 138

Delta R.T. 0.01 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Instrument :

MSVOA_U

ClientSampleId :

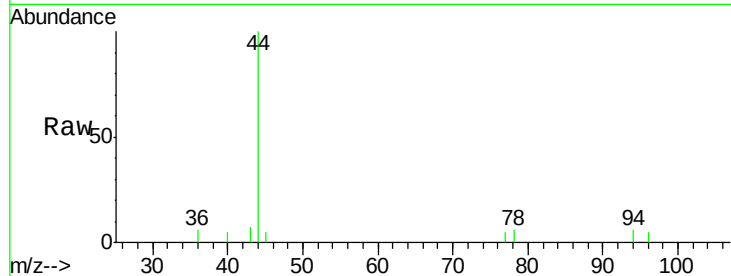
COMP-4-DRUM

Tot Ion: 94 Resp: 119

Ion Ratio Lower Upper

94 100

96 82.4 75.5 113.3

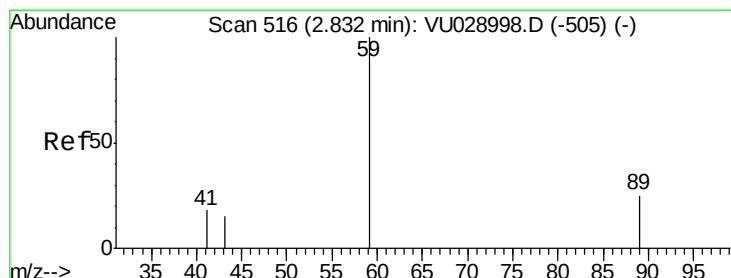
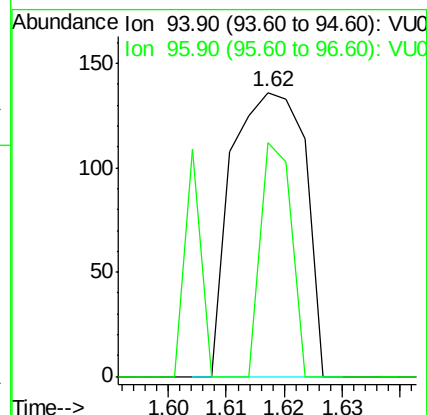
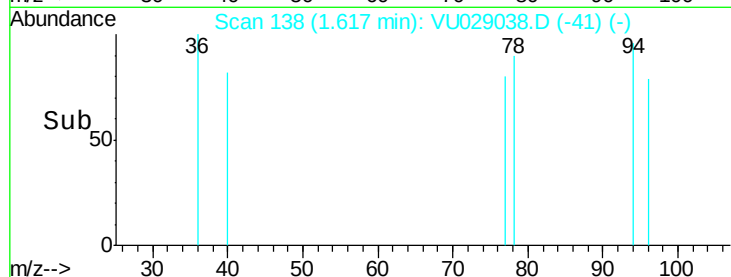


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.62

1.61 1.62 1.63



#11

Tert butyl alcohol

Concen: 3.527 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU029038.D

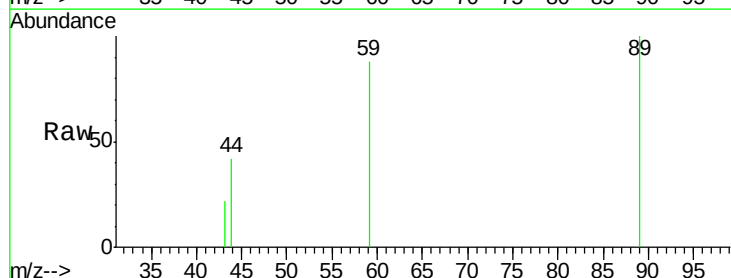
Acq: 04 Jan 2019 19:31

Tgt Ion: 59 Resp: 1240

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#

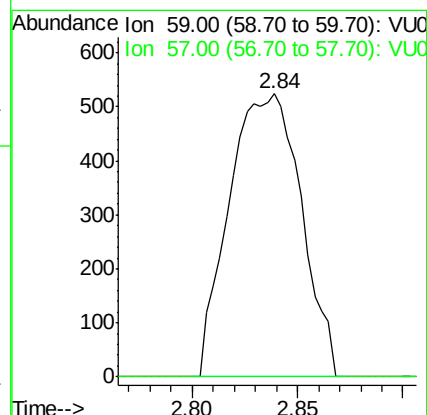
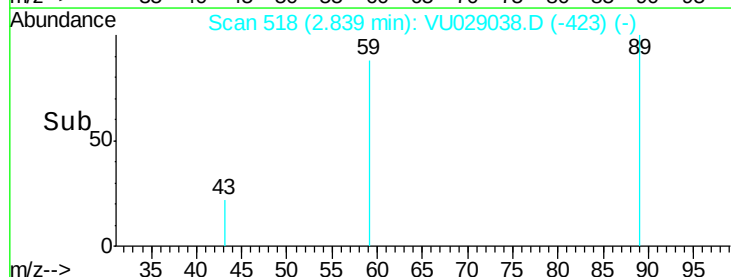


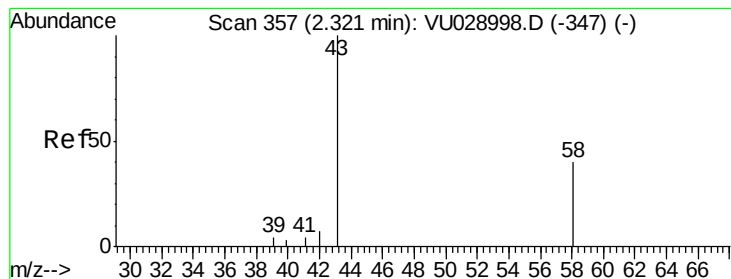
Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.84

2.80 2.85





#16

Acetone

Concen: 2.145 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Instrument :

MSVOA_U

ClientSampleId :

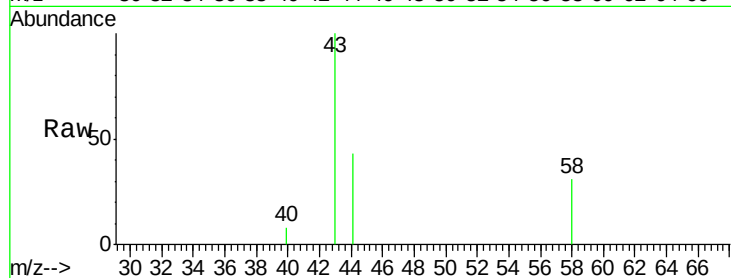
COMP-4-DRUM

Tot Ion: 43 Resp: 1869

Ion Ratio Lower Upper

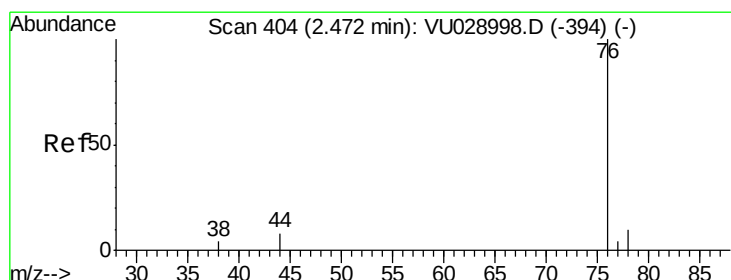
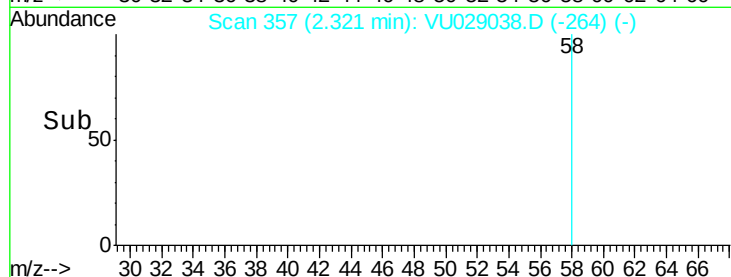
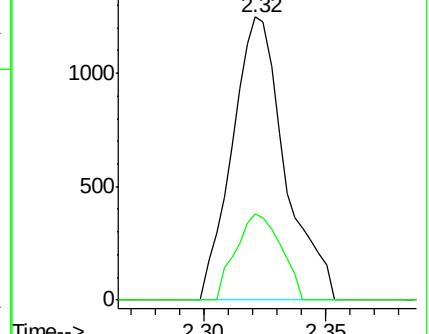
43 100

58 30.6 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.47 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU029038.D

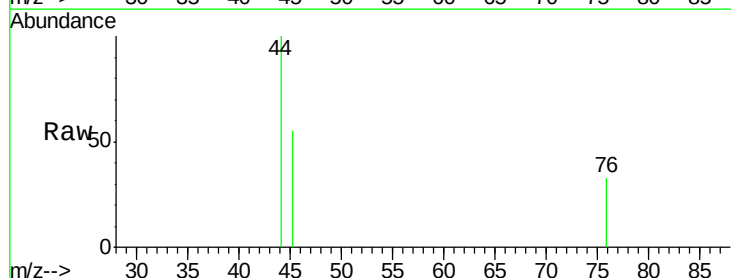
Acq: 04 Jan 2019 19:31

Tgt Ion: 76 Resp: 46

Ion Ratio Lower Upper

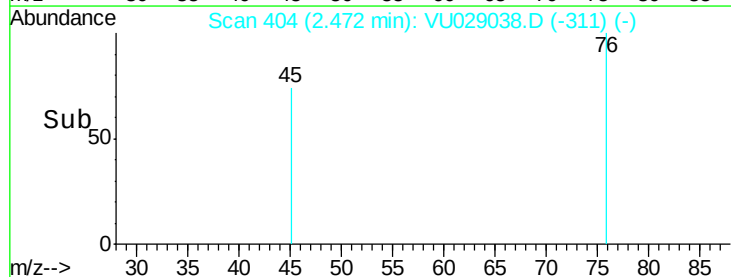
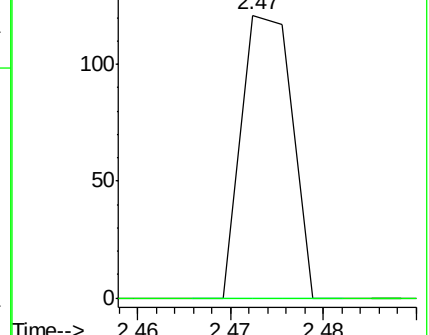
76 100

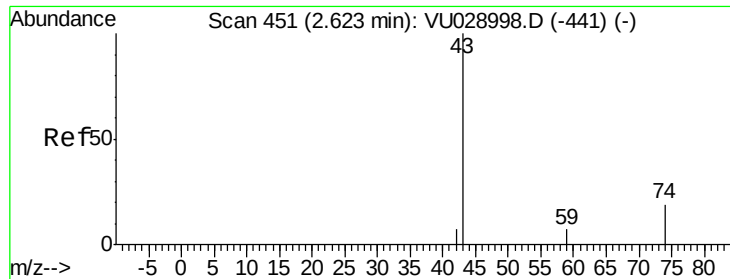
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

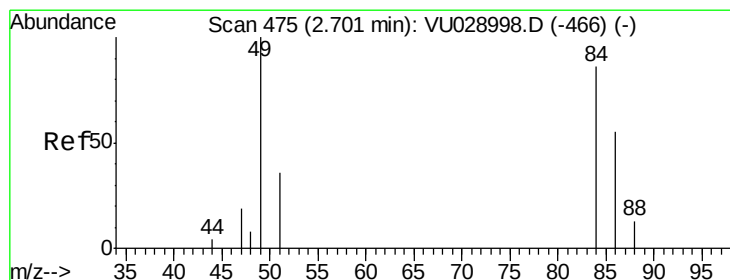
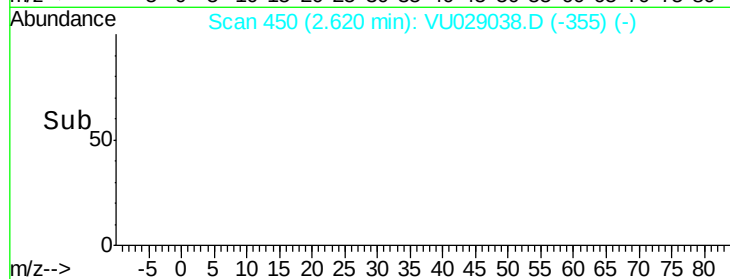
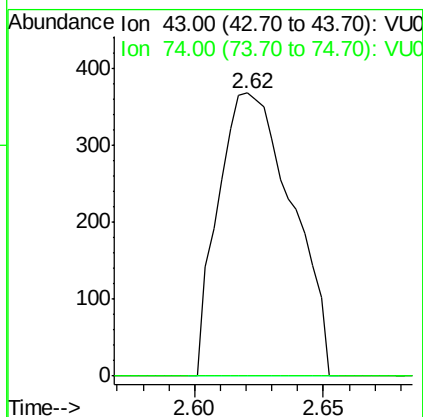
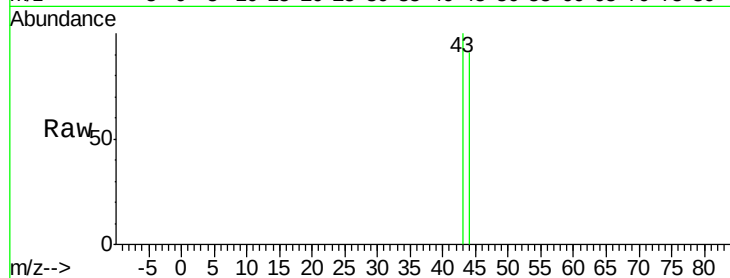




#18
Methyl Acetate
Concen: 0.362 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU029038.D
Acq: 04 Jan 2019 19:31

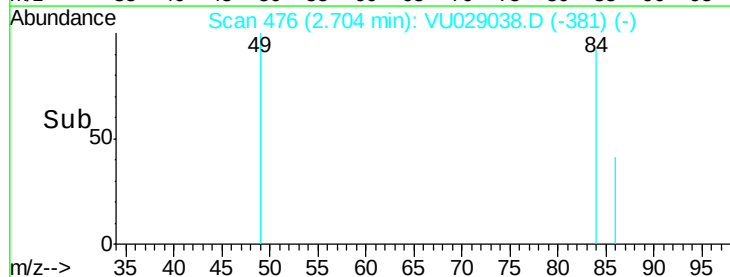
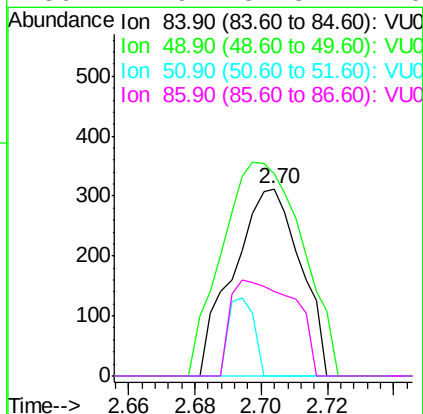
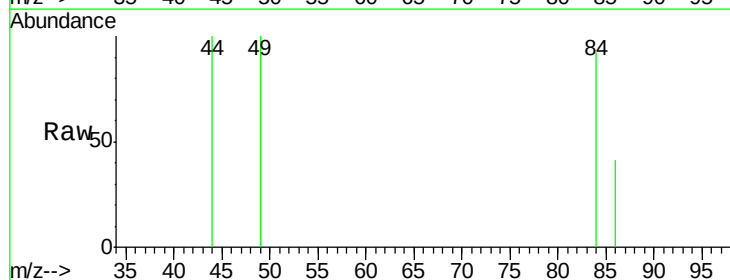
Instrument :
MSVOA_U
ClientSampleId :
COMP-4-DRUM

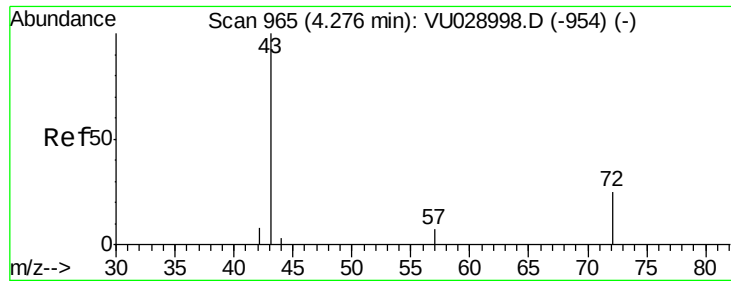
Tot Ion: 43 Resp: 733
Ion Ratio Lower Upper
43 100
74 0.0 19.5 29.3#



#20
Methylene Chloride
Concen: 0.296 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU029038.D
Acq: 04 Jan 2019 19:31

Tgt Ion: 84 Resp: 438
Ion Ratio Lower Upper
84 100
49 108.3 91.9 137.9
51 0.0 29.2 43.8#
86 44.9 51.8 77.6#





#25

2-Butanone

Concen: 7.817 ug/l

RT: 4.27 min Scan# 964

Delta R.T. 0.01 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Instrument :

MSVOA_U

ClientSampleId :

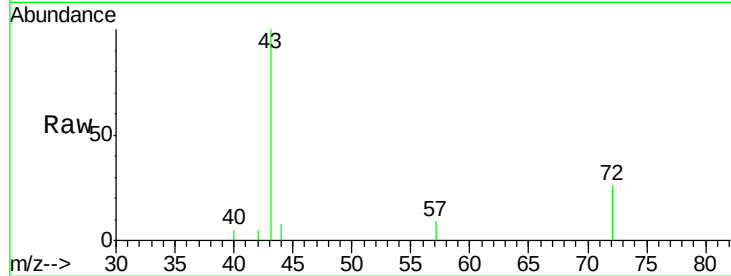
COMP-4-DRUM

Tot Ion: 43 Resp: 9199

Ion Ratio Lower Upper

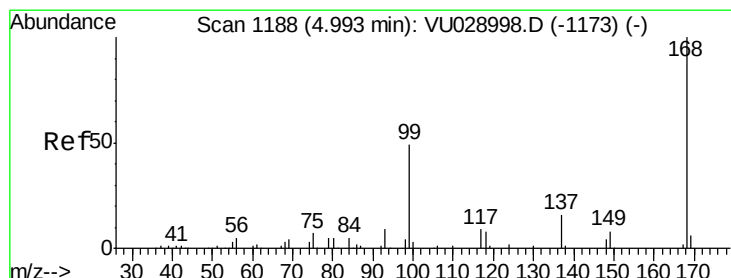
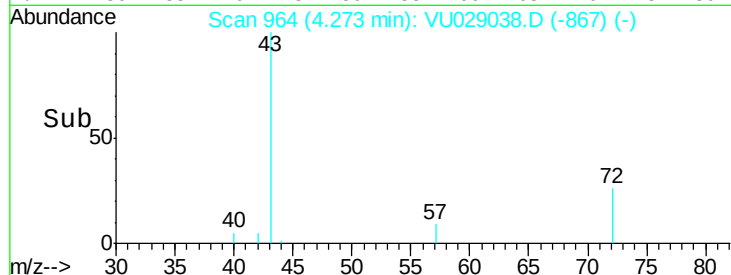
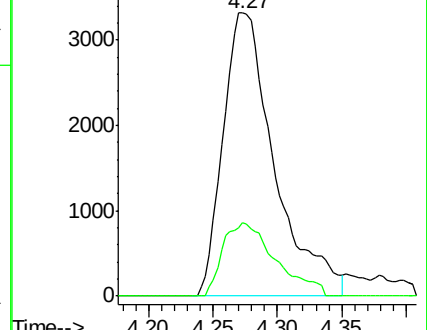
43 100

72 25.7 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VU029038.D (-867) (-)

Ion 72.00 (71.70 to 72.70): VU029038.D (-867) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

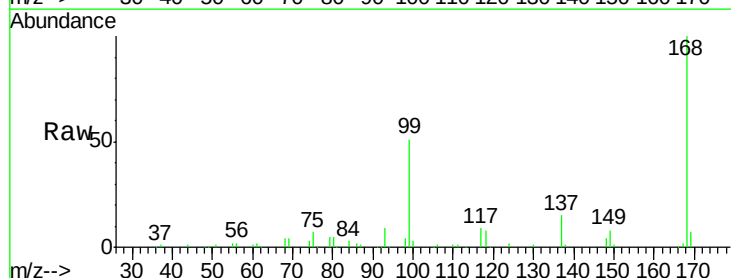
Tgt Ion: 56 Resp: 2044

Ion Ratio Lower Upper

56 100

69 185.0 26.7 40.1#

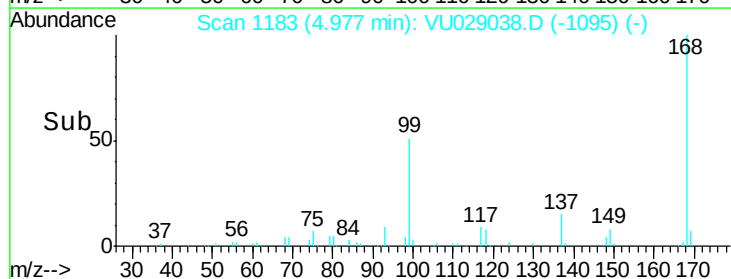
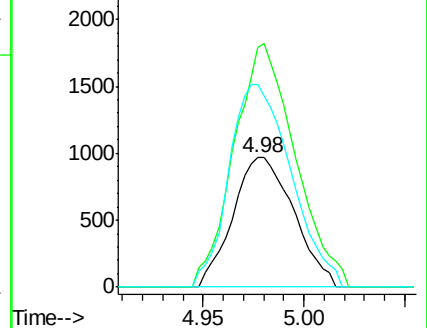
84 156.4 65.7 98.5#

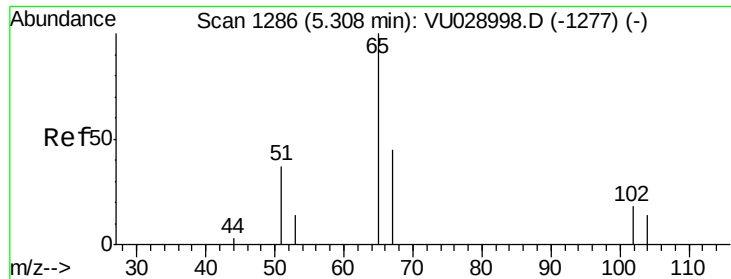


Abundance Ion 56.00 (55.70 to 56.70): VU029038.D (-1095) (-)

Ion 69.00 (68.70 to 69.70): VU029038.D (-1095) (-)

Ion 84.00 (83.70 to 84.70): VU029038.D (-1095) (-)

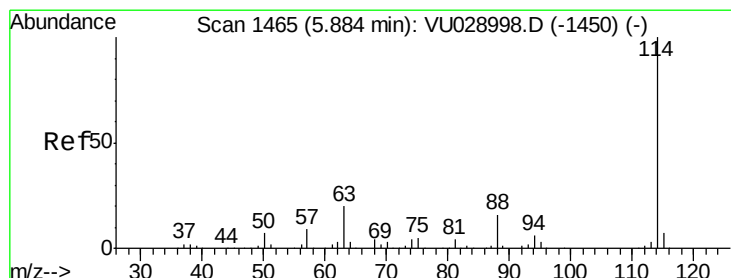
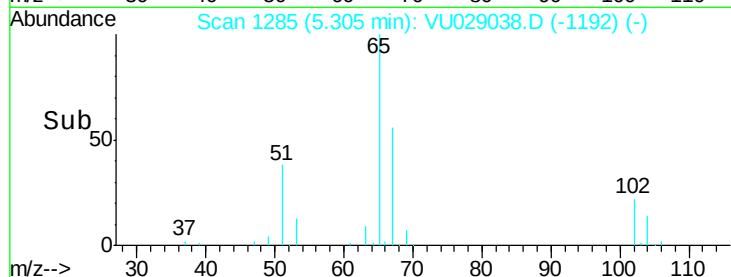
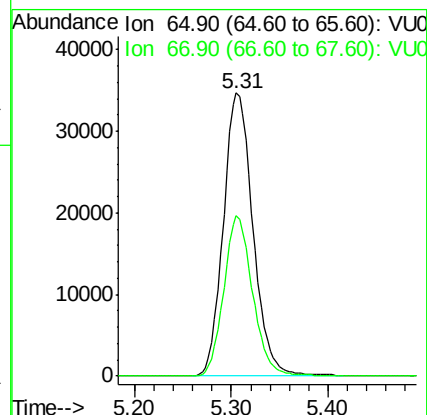
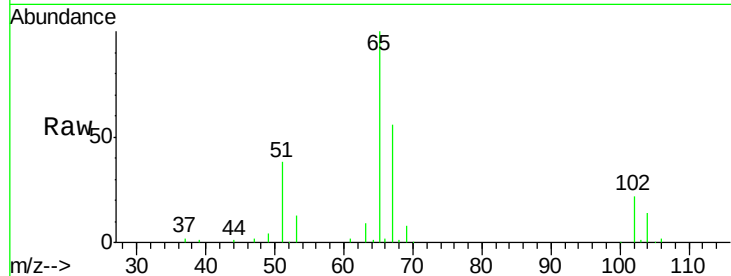




#33
 1,2-Dichloroethane-d4
 Concen: 53.517 ug/l
 RT: 5.31 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VU029038.D
 Acq: 04 Jan 2019 19:31

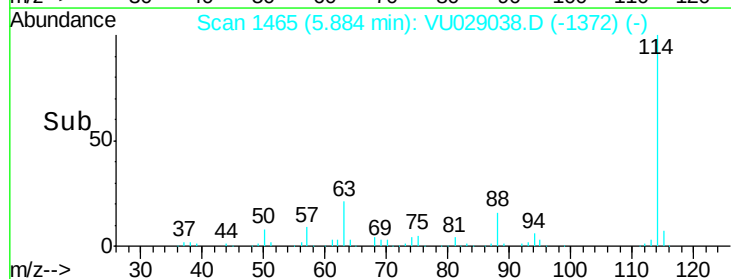
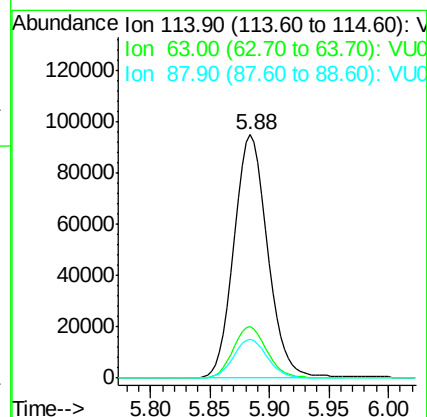
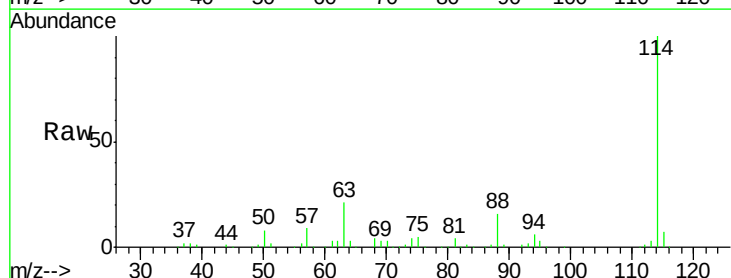
Instrument :
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 COMP-4-DRUM

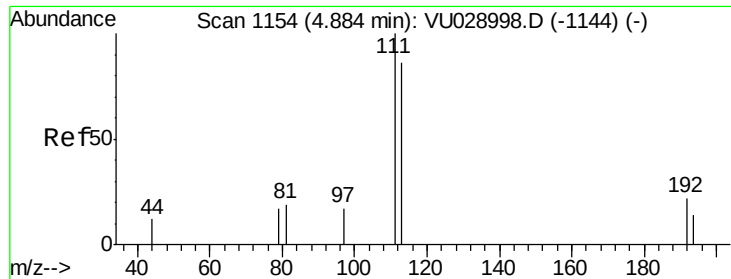
Tot Ion: 65 Resp: 74014
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029038.D
 Acq: 04 Jan 2019 19:31

Tgt Ion: 114 Resp: 186904
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 40.2
 88 16.1 0.0 30.4

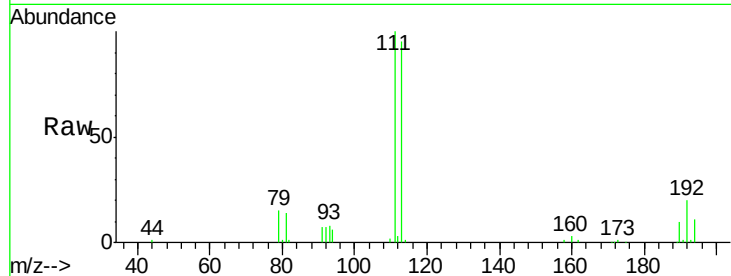




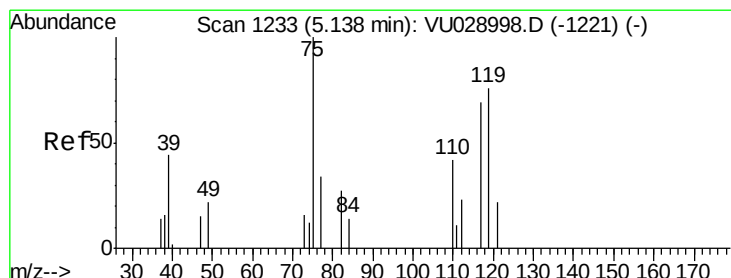
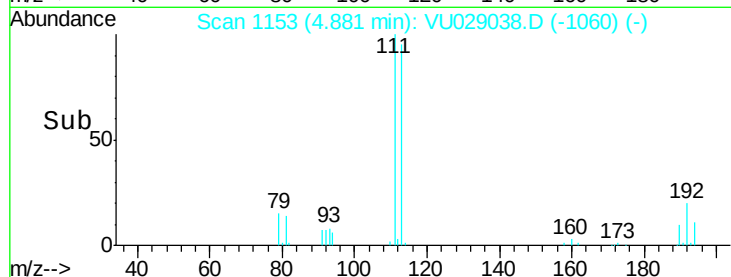
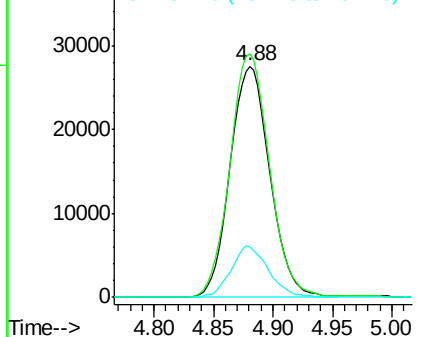
#35
 Dibromofluoromethane
 Concen: 52.640 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029038.D
 Acq: 04 Jan 2019 19:31

Instrument :
 MSVOA_U
 ClientSampleId :
 COMP-4-DRUM

Tot Ion:113 Resp: 63777
 Ion Ratio Lower Upper
 113 100
 111 105.1 81.4 122.2
 192 20.8 16.8 25.2

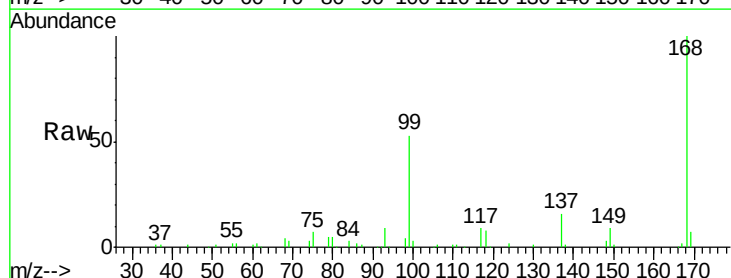


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

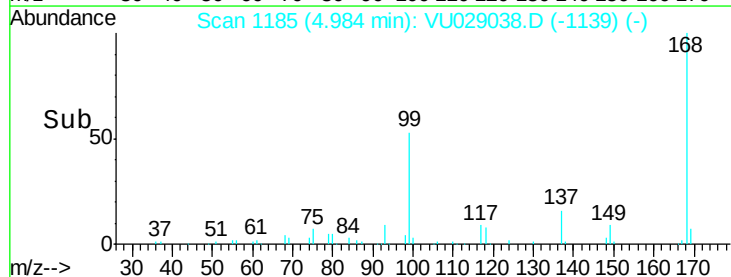
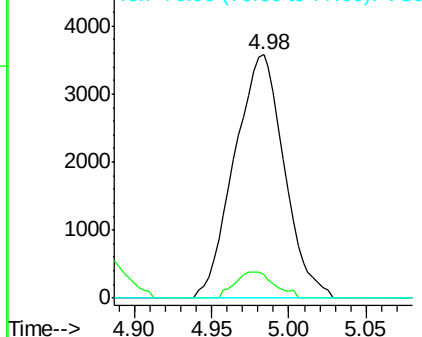


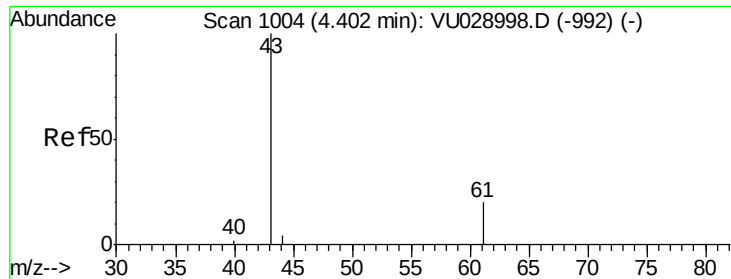
#36
 1,1-Dichloropropene
 Concen: 4.294 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029038.D
 Acq: 04 Jan 2019 19:31

Tgt Ion: 75 Resp: 8022
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.4 55.4#
 77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

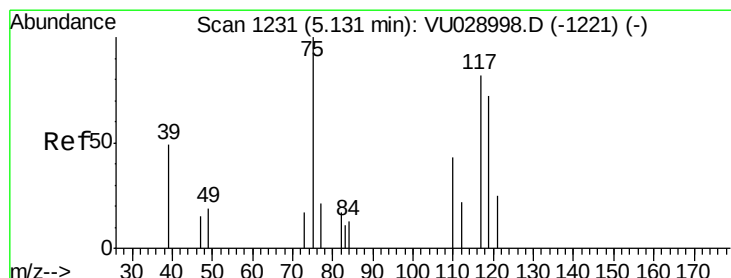
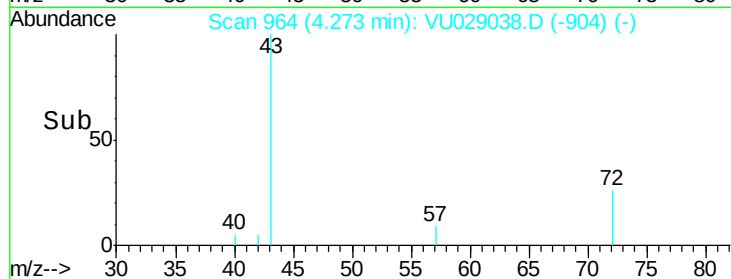
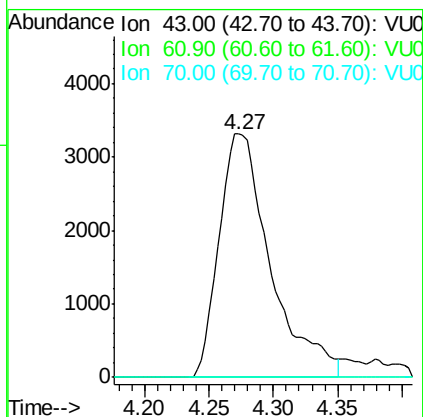
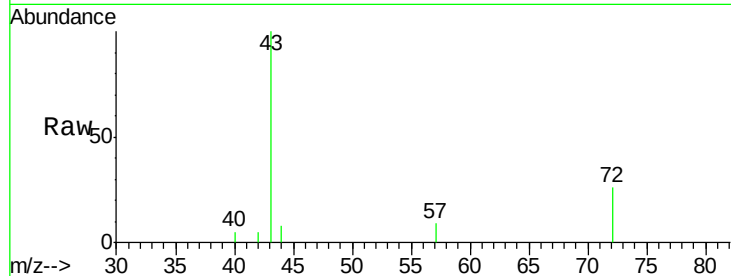




#37
Ethyl Acetate
Concen: 4.486 ug/l
RT: 4.27 min Scan# 964
Delta R.T. -0.11 min
Lab File: VU029038.D
Acq: 04 Jan 2019 19:31

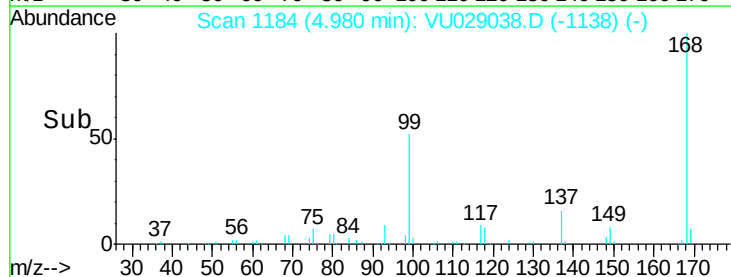
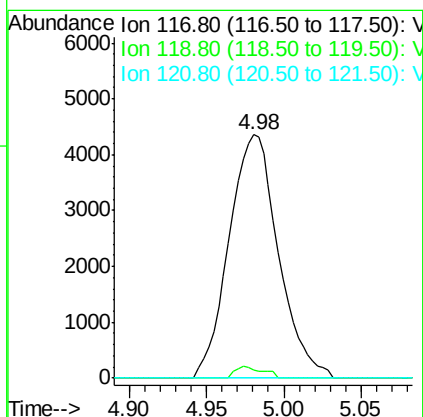
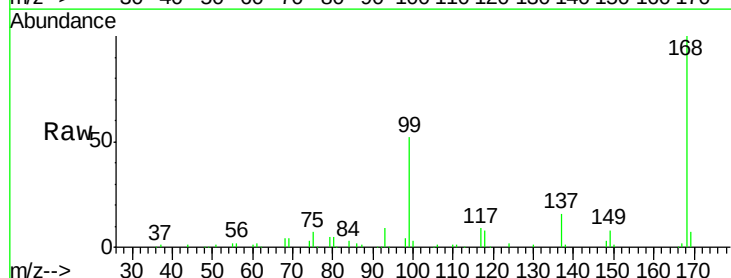
Instrument :
MSVOA_U
ClientSampleId :
COMP-4-DRUM

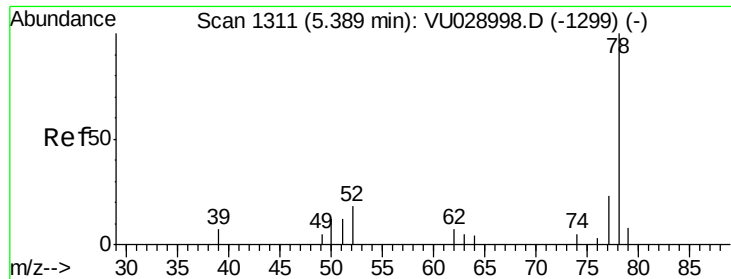
Tot Ion: 43 Resp: 9199
Ion Ratio Lower Upper
43 100
61 0.0 12.6 18.8#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 6.196 ug/l
RT: 4.98 min Scan# 1184
Delta R.T. -0.15 min
Lab File: VU029038.D
Acq: 04 Jan 2019 19:31

Tgt Ion: 117 Resp: 9654
Ion Ratio Lower Upper
117 100
119 3.3 74.6 111.8#
121 0.0 25.0 37.6#





#40

Benzene

Concen: 0.361 ug/l

RT: 5.39 min Scan# 1311

Delta R.T. 0.00 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Instrument :

MSVOA_U

ClientSampleId :

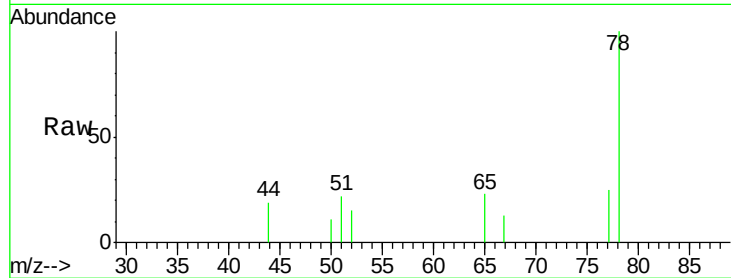
COMP-4-DRUM

Tot Ion: 78 Resp: 2106

Ion Ratio Lower Upper

78 100

77 24.9 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

5.39

1000

800

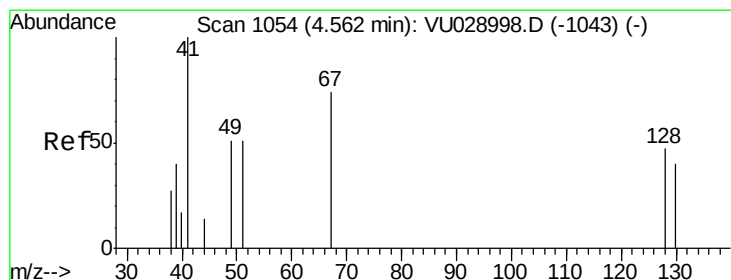
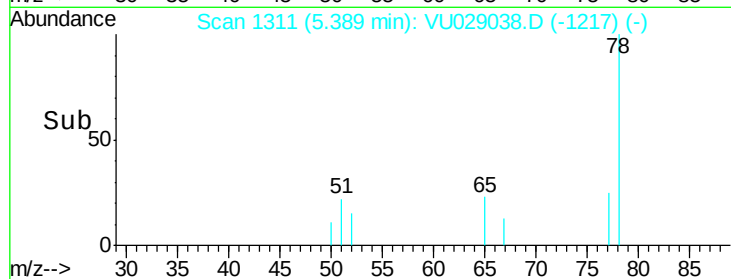
600

400

200

0

Time-->



#41

Methacrylonitrile

Concen: 0.427 ug/l

RT: 4.58 min Scan# 1061

Delta R.T. 0.05 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Tgt Ion: 41 Resp: 469

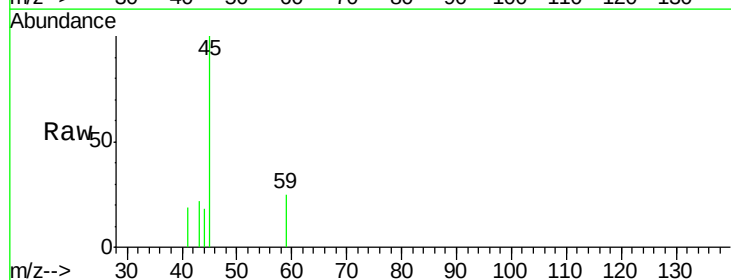
Ion Ratio Lower Upper

41 100

39 0.0 42.3 63.5#

67 0.0 64.4 96.6#

52 0.0 23.9 35.9#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

4.58

400

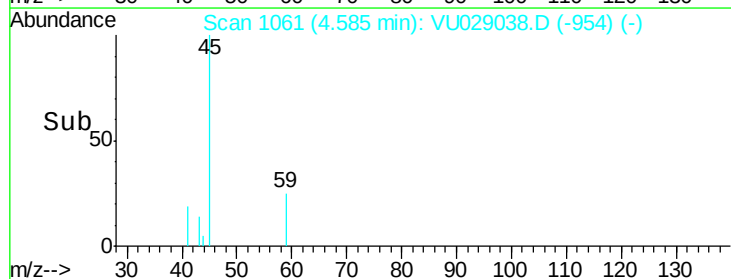
300

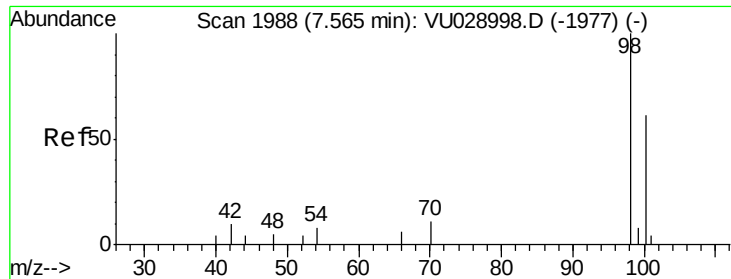
200

100

0

Time-->

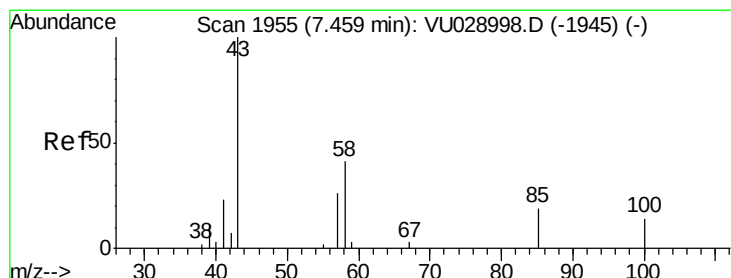
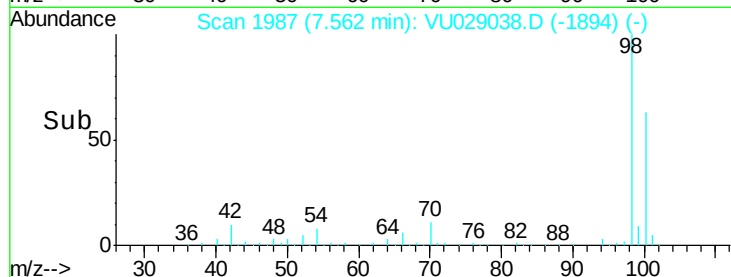
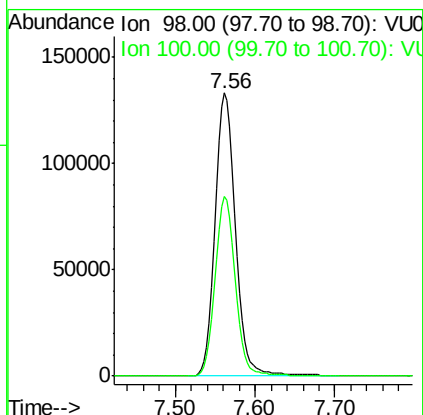
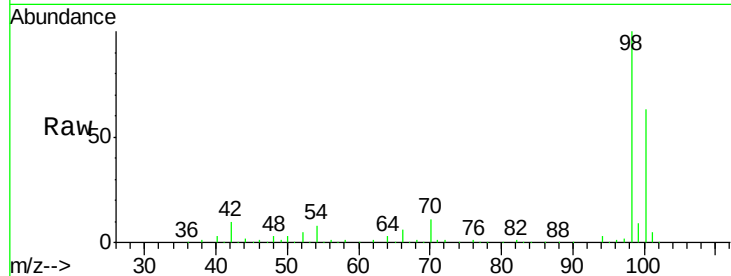




#50
Toluene-d8
Concen: 49.800 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029038.D
Acq: 04 Jan 2019 19:31

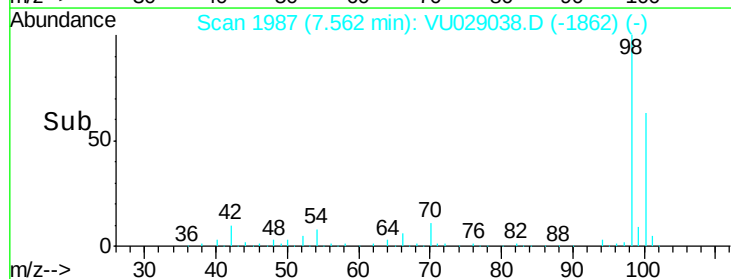
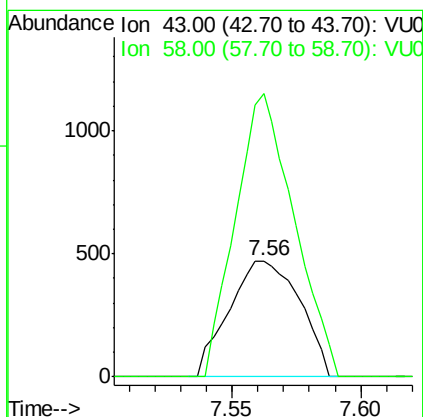
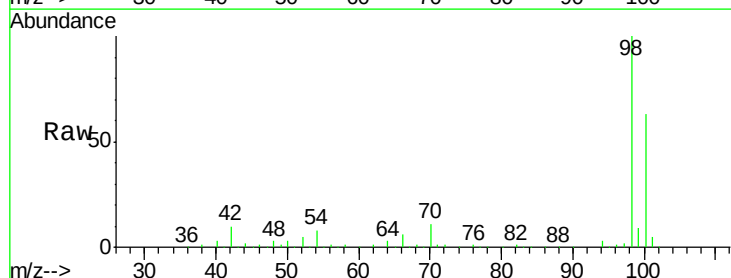
Instrument :
MSVOA_U
ClientSampleId :
COMP-4-DRUM

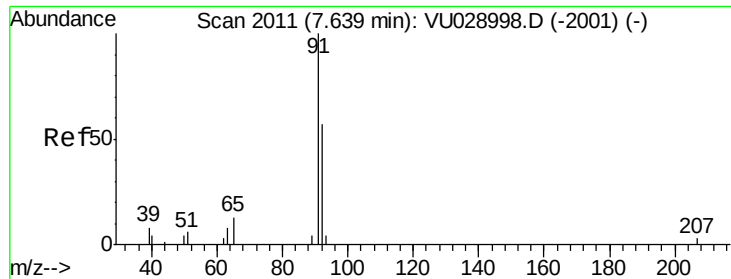
Tot Ion: 98 Resp: 238199
Ion Ratio Lower Upper
98 100
100 62.8 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 0.420 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.10 min
Lab File: VU029038.D
Acq: 04 Jan 2019 19:31

Tgt Ion: 43 Resp: 899
Ion Ratio Lower Upper
43 100
58 203.0 33.9 50.9#





#52

Toluene

Concen: 0.761 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Instrument :

MSVOA_U

ClientSampleId :

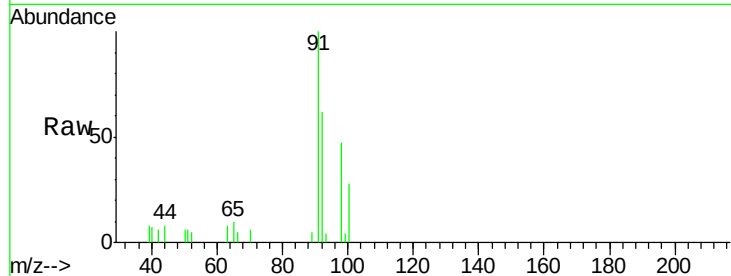
COMP-4-DRUM

Tot Ion: 92 Resp: 2698

Ion Ratio Lower Upper

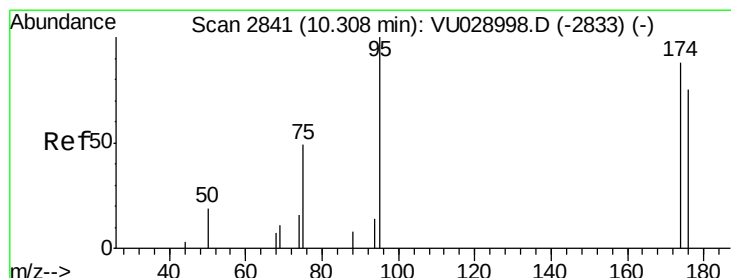
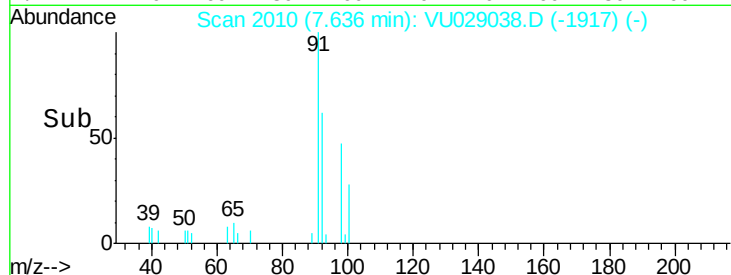
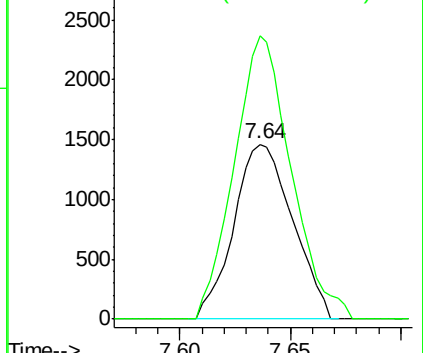
92 100

91 156.8 139.8 209.8



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#62

4-Bromofluorobenzene

Concen: 41.579 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

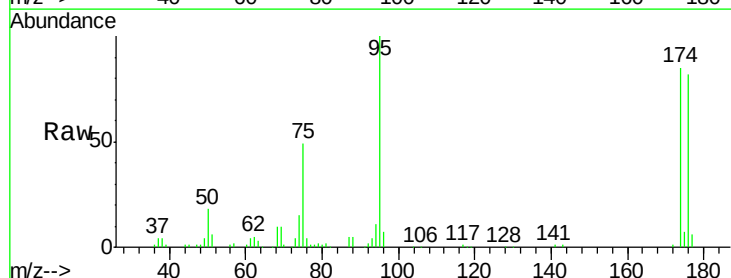
Tgt Ion: 95 Resp: 71473

Ion Ratio Lower Upper

95 100

174 85.1 0.0 170.6

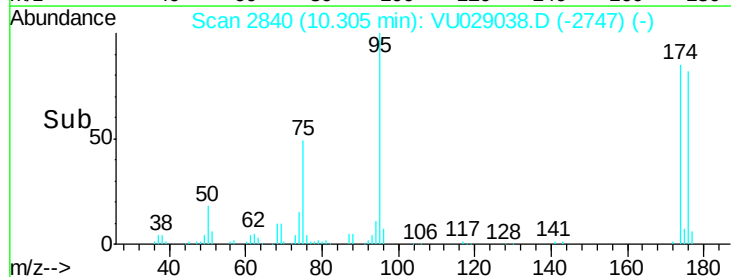
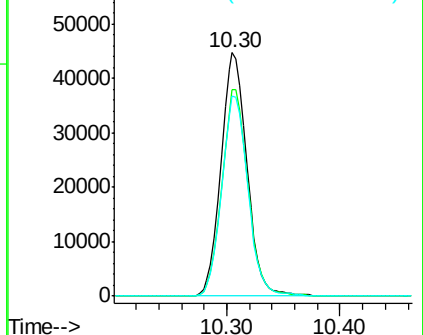
176 82.9 0.0 165.0

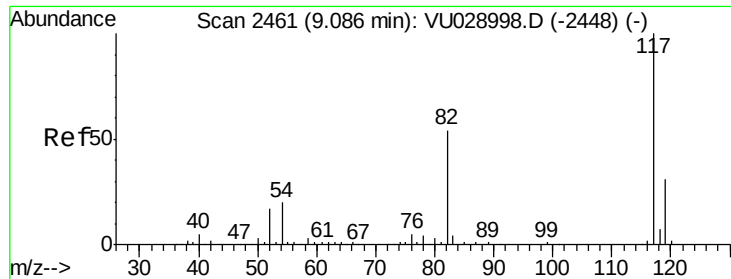


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

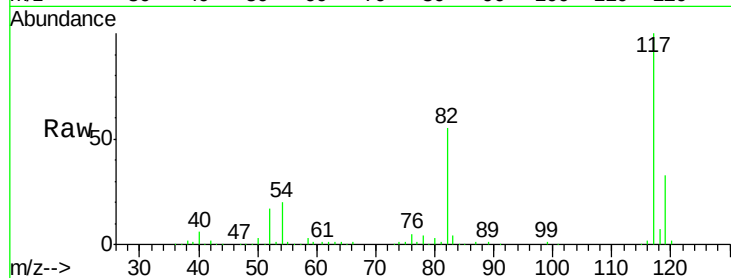




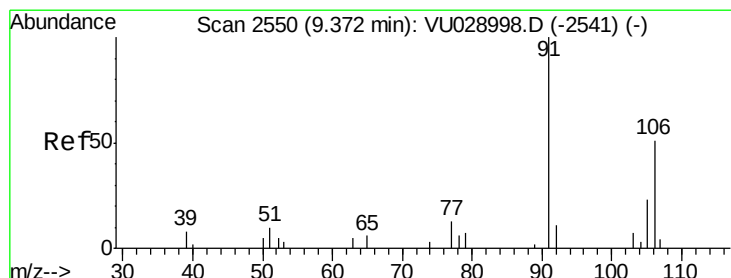
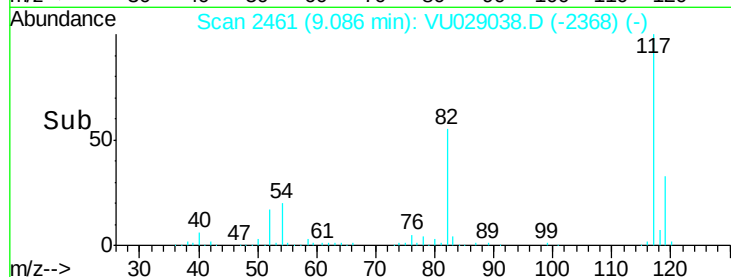
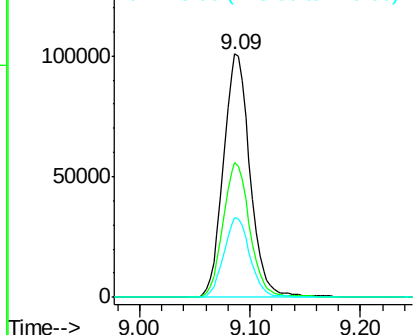
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029038.D
Acq: 04 Jan 2019 19:31

Instrument :
MSVOA_U
ClientSampleId :
COMP-4-DRUM

Tot Ion:117 Resp: 169330
Ion Ratio Lower Upper
117 100
82 55.1 43.9 65.9
119 32.6 26.0 39.0

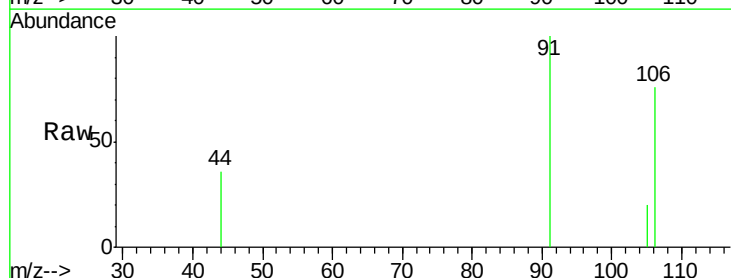


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

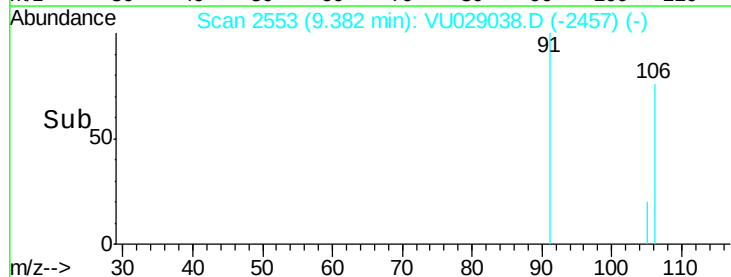
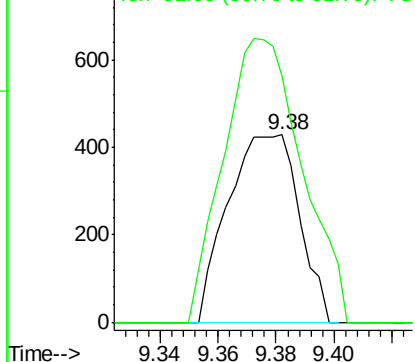


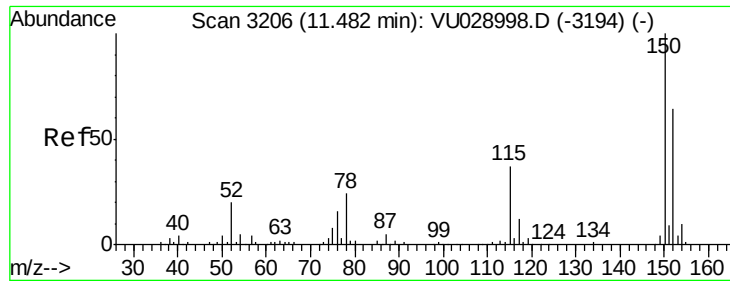
#68
m/p-Xylenes
Concen: 0.296 ug/l
RT: 9.38 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VU029038.D
Acq: 04 Jan 2019 19:31

Tgt Ion:106 Resp: 730
Ion Ratio Lower Upper
106 100
91 167.4 161.7 242.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Instrument :

MSVOA_U

ClientSampleId :

COMP-4-DRUM

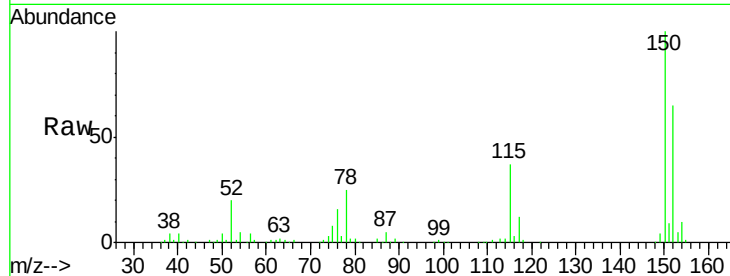
Tot Ion:152 Resp: 67104

Ion Ratio Lower Upper

152 100

115 56.8 40.1 120.3

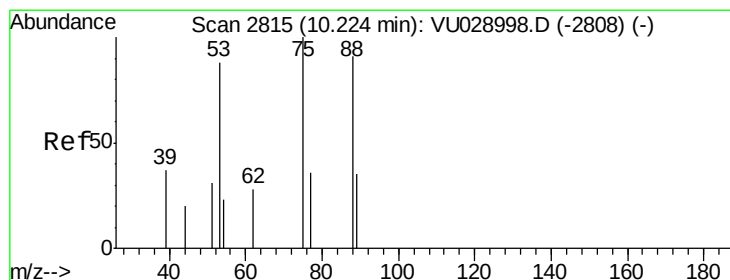
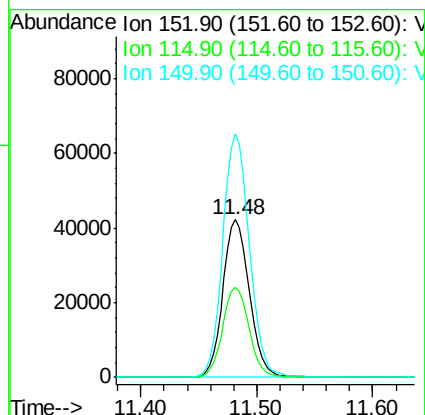
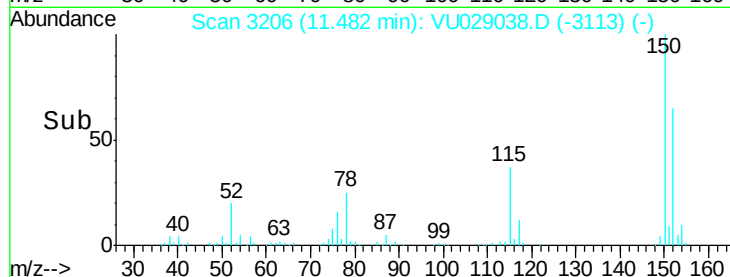
150 154.5 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.950 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029038.D

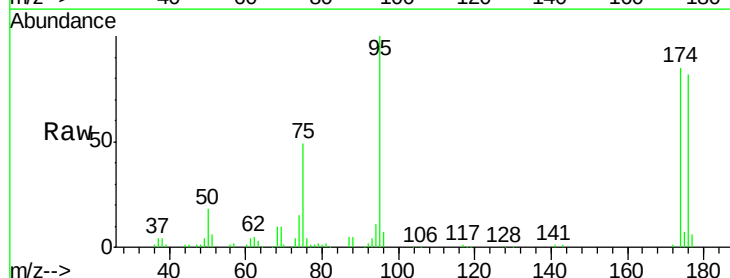
Acq: 04 Jan 2019 19:31

Tgt Ion: 75 Resp: 34445

Ion Ratio Lower Upper

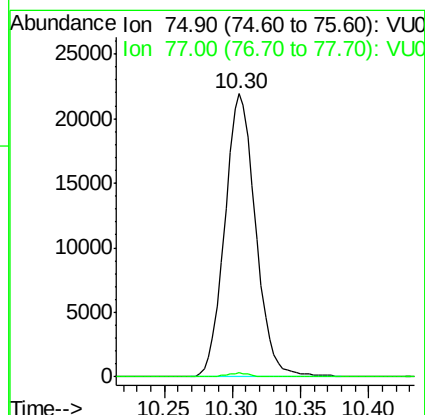
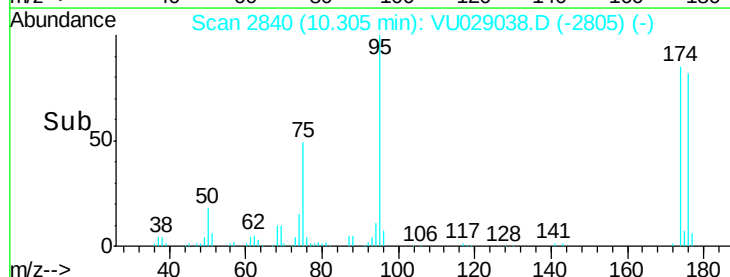
75 100

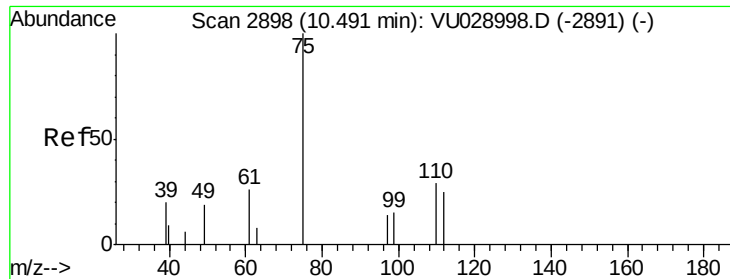
77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 54.031 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

Instrument :

MSVOA_U

ClientSampleId :

COMP-4-DRUM

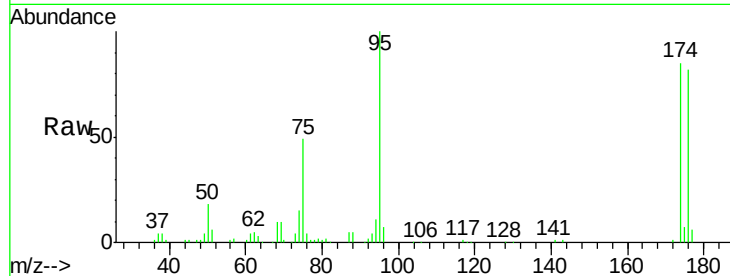
Tot Ion: 75 Resp: 34445

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

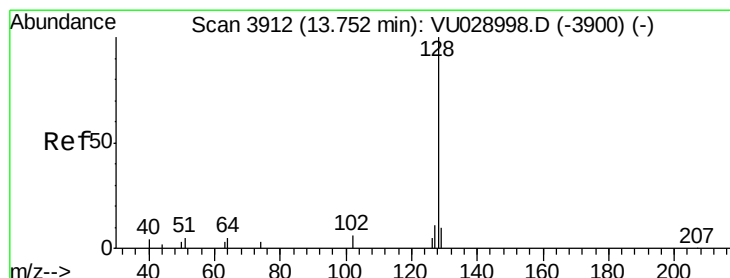
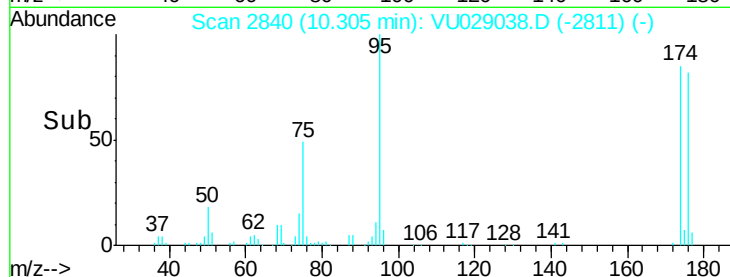
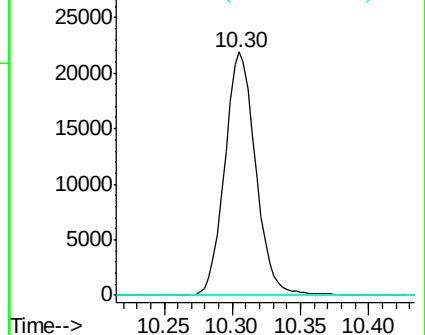
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-2891) (-)

Ion 53.00 (52.70 to 53.70): VU028998.D (-2891) (-)

Ion 88.90 (88.60 to 89.60): VU028998.D (-2891) (-)



#95

Naphthalene

Concen: 1.366 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU029038.D

Acq: 04 Jan 2019 19:31

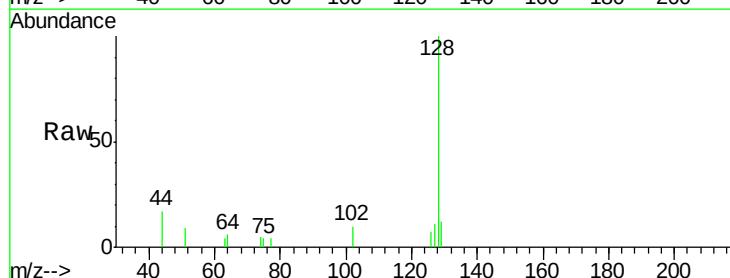
Tgt Ion: 128 Resp: 7094

Ion Ratio Lower Upper

128 100

127 5.5 10.1 15.1#

129 7.9 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): VU028998.D (-3900) (-)

Ion 127.00 (126.70 to 127.70): VU028998.D (-3900) (-)

Ion 129.00 (128.70 to 129.70): VU028998.D (-3900) (-)

