

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010519\
 Data File : VU029035.D
 Acq On : 04 Jan 2019 18:18
 Operator : MD/SY
 Sample : K1055-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-3

Quant Time: Jan 05 03:48:28 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	110835	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	188849	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	172867	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	67517	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.30	65	74543	54.41	ug/l	0.00
Spiked Amount			Recovery	=	108.82%	
35) Dibromofluoromethane	4.88	113	64326	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
50) Toluene-d8	7.56	98	238163	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
62) 4-Bromofluorobenzene	10.31	95	73860	42.53	ug/l	0.00
Spiked Amount			Recovery	=	85.06%	

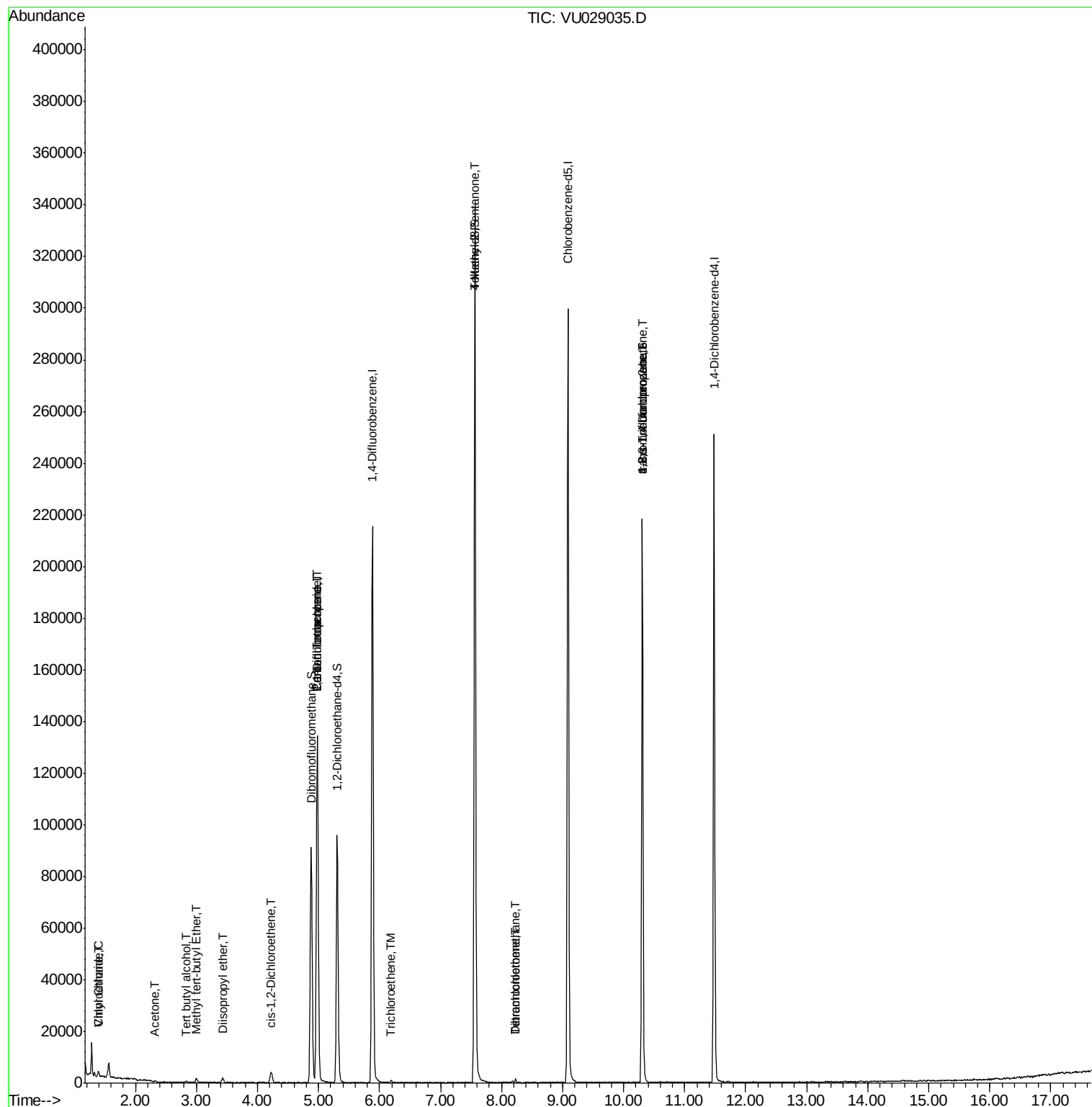
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	943	Below Cal		100
4) Vinyl Chloride	1.40	62	1168	0.721 ug/l #		74
5) Bromomethane	1.63	94	40	Below Cal #		2
6) Chloroethane	1.40	64	470	0.487 ug/l #		43
11) Tert butyl alcohol	2.84	59	397	1.140 ug/l #		73
16) Acetone	2.32	43	693	0.803 ug/l		92
17) Carbon Disulfide	2.48	76	188	Below Cal #		75
19) Methyl tert-butyl Ether	3.00	73	1925	0.476 ug/l #		89
22) Diisopropyl ether	3.43	45	920	0.221 ug/l #		11
27) cis-1,2-Dichloroethene	4.22	96	2445	1.674 ug/l		91
31) Cyclohexane	4.97	56	962	Below Cal #		1
36) 1,1-Dichloropropene	4.98	75	8271	4.382 ug/l #		46
38) Carbon Tetrachloride	4.98	117	9673	6.144 ug/l #		17
44) Trichloroethene	6.19	130	323	0.221 ug/l		84
51) 4-Methyl-2-Pentanone	7.56	43	857	0.396 ug/l #		1
60) Dibromochloromethane	8.22	129	339	0.238 ug/l #		11
64) Tetrachloroethene	8.23	164	273	0.219 ug/l #		79
76) 1,2,3-Trichloropropane	10.30	75	35920	21.713 ug/l #		36
81) trans-1,4-Dichloro-2-buten	10.30	75	35920	56.000 ug/l #		100

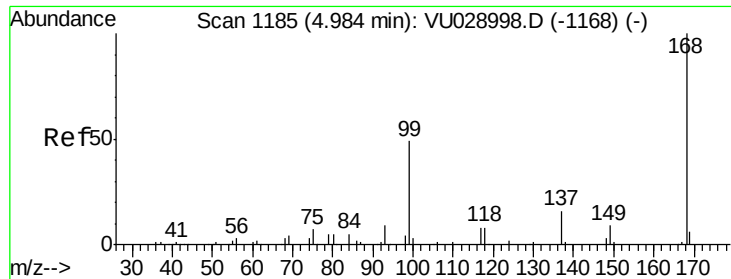
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampleId :

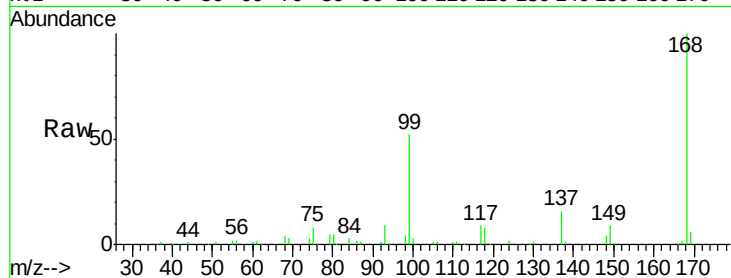
MW-3

Tot Ion:168 Resp: 110835

Ion Ratio Lower Upper

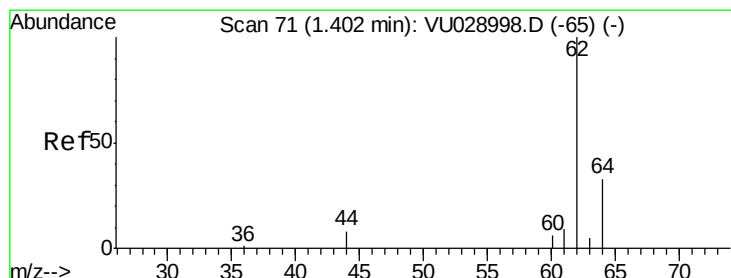
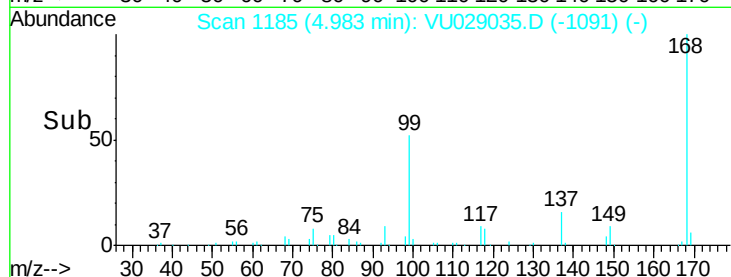
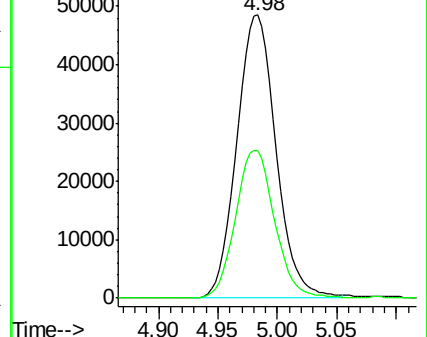
168 100

99 52.3 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

Vinyl Chloride

Concen: 0.721 ug/l

RT: 1.40 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU029035.D

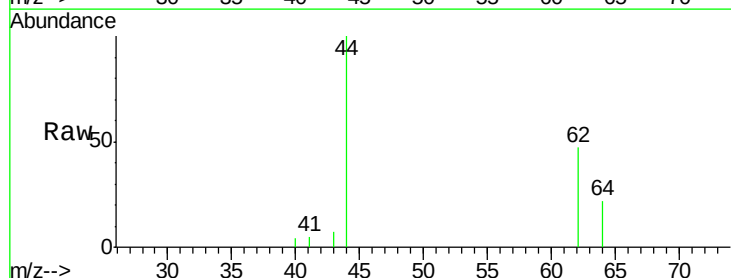
Acq: 04 Jan 2019 18:18

Tgt Ion: 62 Resp: 1168

Ion Ratio Lower Upper

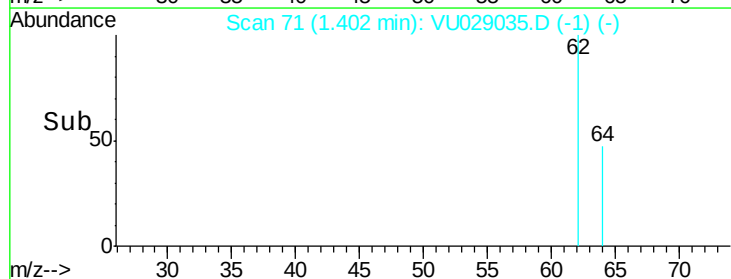
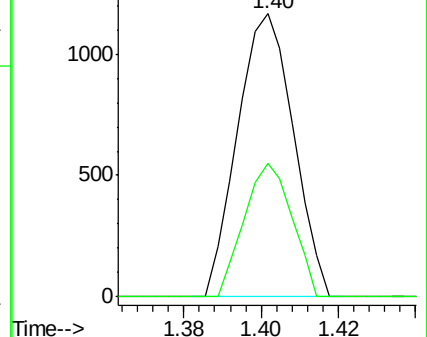
62 100

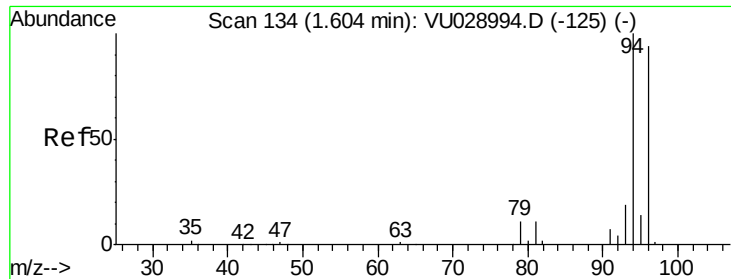
64 47.0 25.9 38.9#



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

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





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 141

Delta R.T. 0.02 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampled :

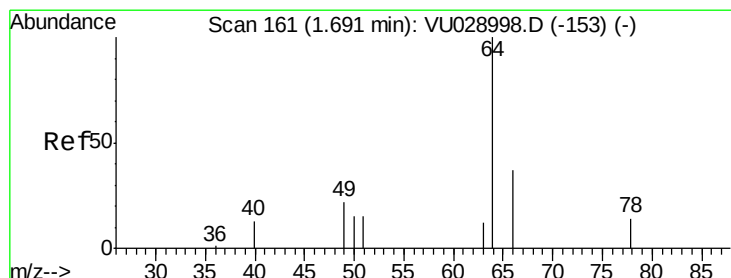
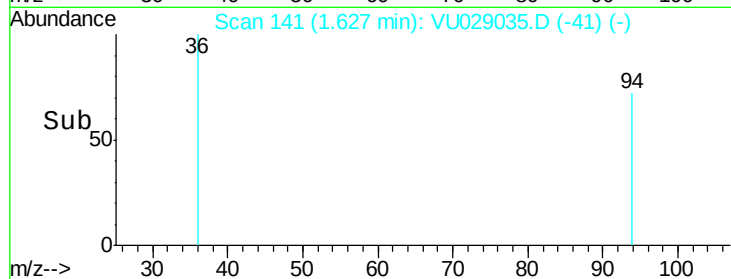
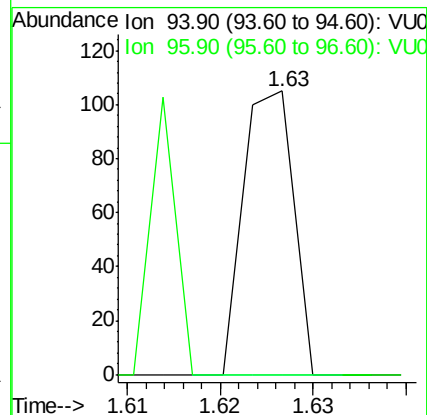
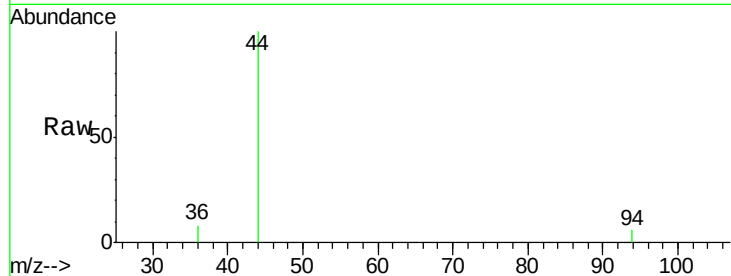
MW-3

Tot Ion: 94 Resp: 40

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#



#6

Chloroethane

Concen: 0.487 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.28 min

Lab File: VU029035.D

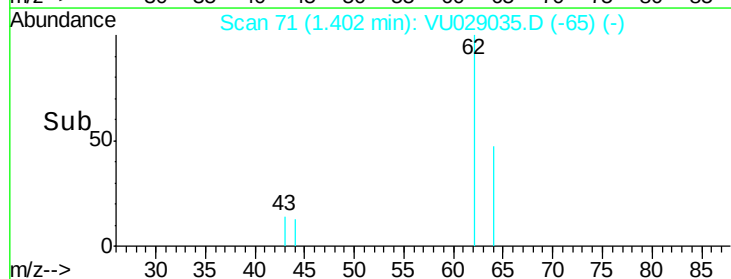
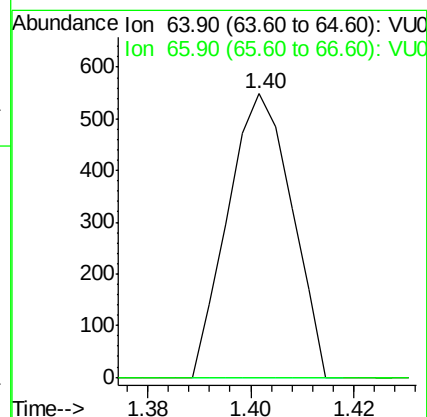
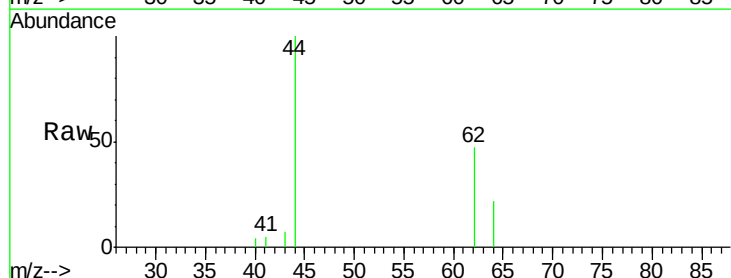
Acq: 04 Jan 2019 18:18

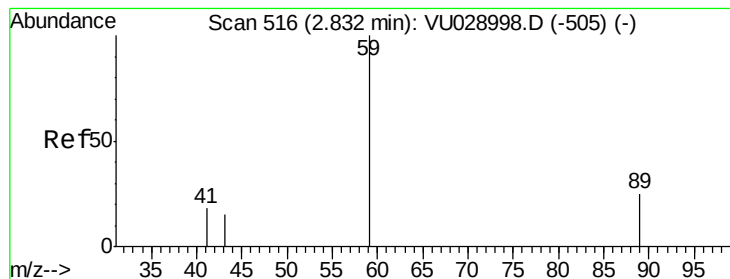
Tgt Ion: 64 Resp: 470

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#





#11

Tert butyl alcohol

Concen: 1.140 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampleId :

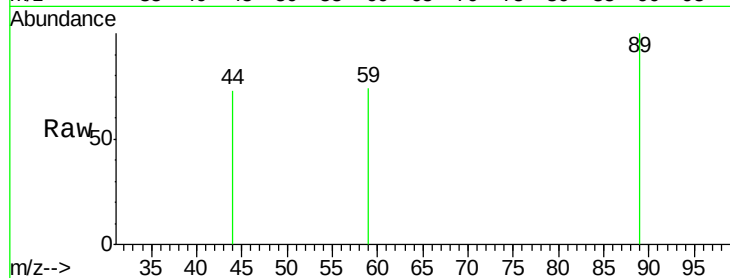
MW-3

Tot Ion: 59 Resp: 397

Ion Ratio Lower Upper

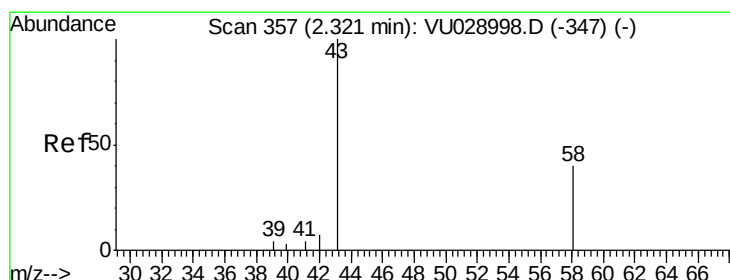
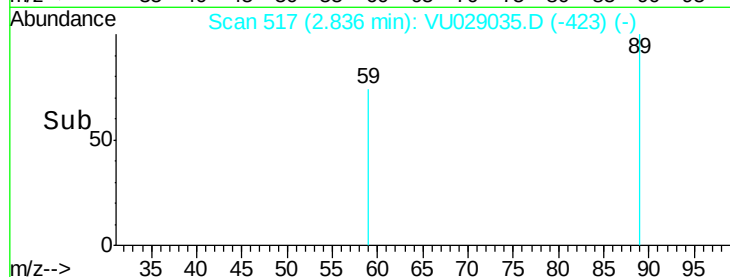
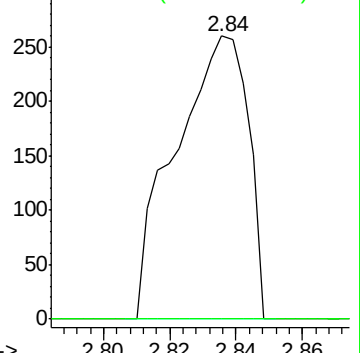
59 100

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



#16

Acetone

Concen: 0.803 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029035.D

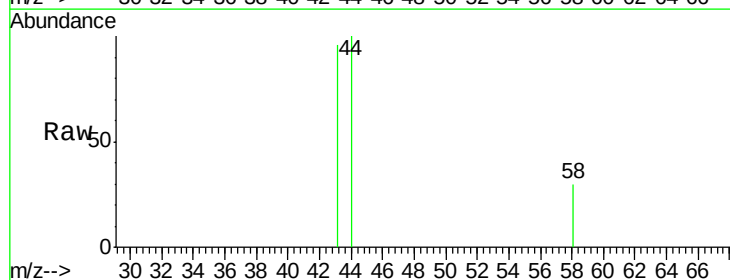
Acq: 04 Jan 2019 18:18

Tgt Ion: 43 Resp: 693

Ion Ratio Lower Upper

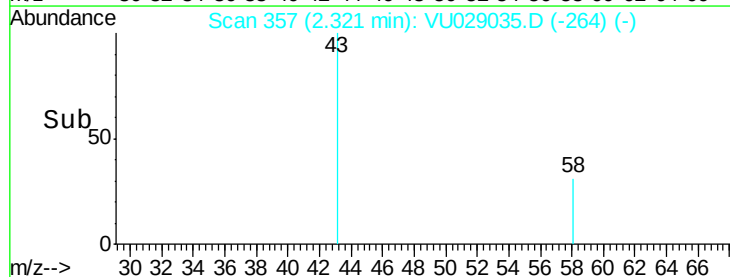
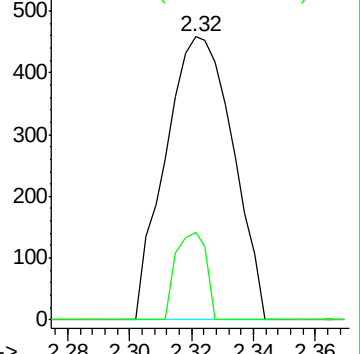
43 100

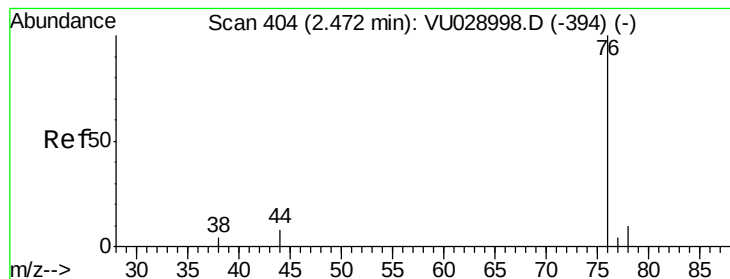
58 31.0 28.6 42.8



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: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampleId :

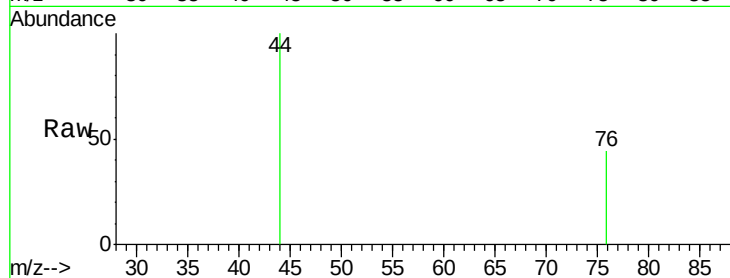
MW-3

Tot Ion: 76 Resp: 188

Ion Ratio Lower Upper

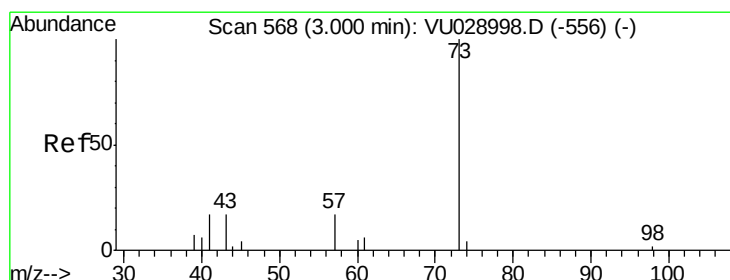
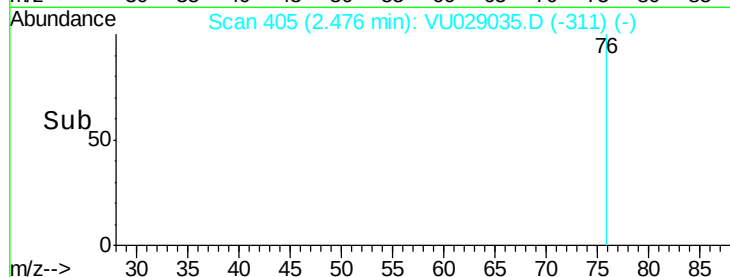
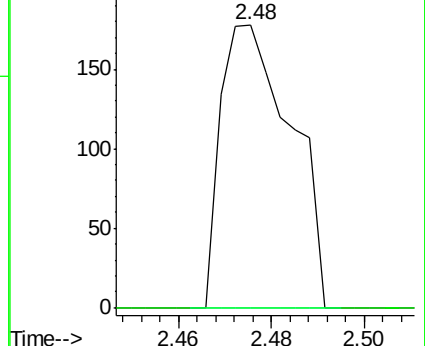
76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU028998.D (-394) (-)

Ion 77.90 (77.60 to 78.60): VU028998.D (-394) (-)



#19

Methyl tert-butyl Ether

Concen: 0.476 ug/l

RT: 3.00 min Scan# 567

Delta R.T. -0.00 min

Lab File: VU029035.D

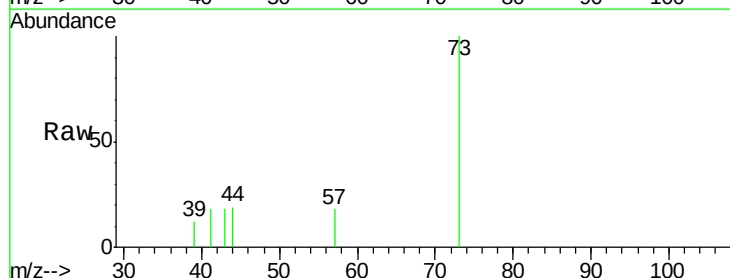
Acq: 04 Jan 2019 18:18

Tgt Ion: 73 Resp: 1925

Ion Ratio Lower Upper

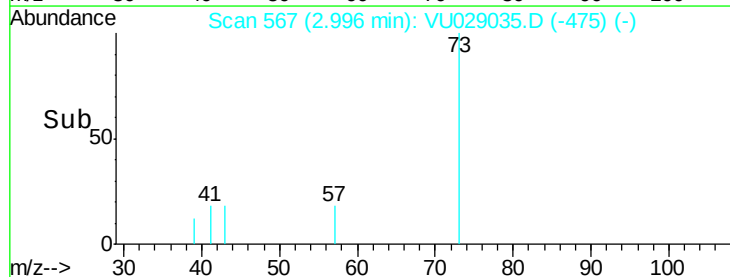
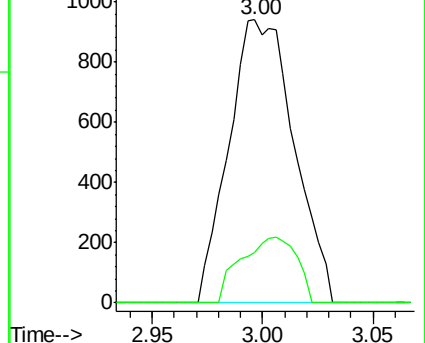
73 100

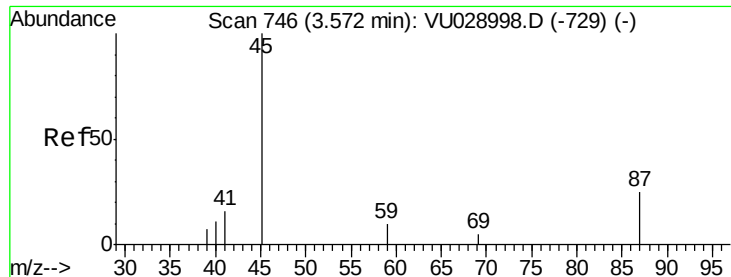
57 17.9 18.6 28.0#



Abundance Ion 73.00 (72.70 to 73.70): VU028998.D (-556) (-)

Ion 57.00 (56.70 to 57.70): VU028998.D (-556) (-)





#22

Diisopropyl ether

Concen: 0.221 ug/l

RT: 3.43 min Scan# 702

Delta R.T. -0.14 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampleId :

MW-3

Tot Ion: 45 Resp: 920

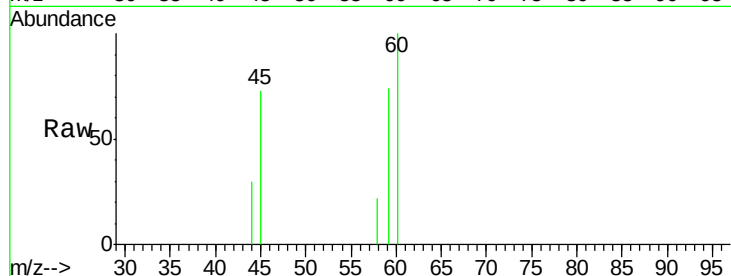
Ion Ratio Lower Upper

45 100

43 0.0 44.7 67.1#

87 0.0 22.2 33.2#

59 101.4 9.8 14.8#

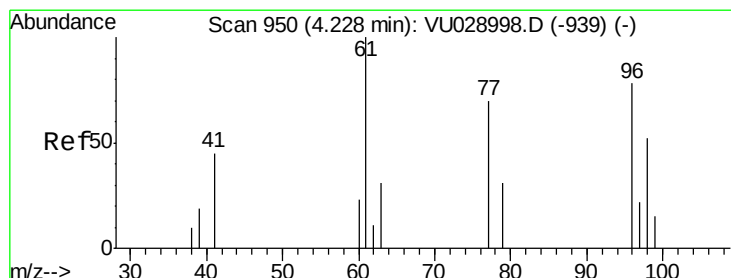
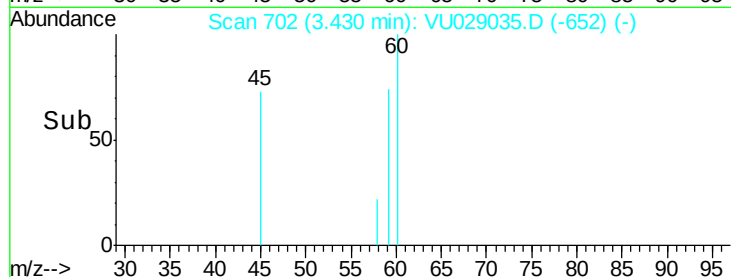
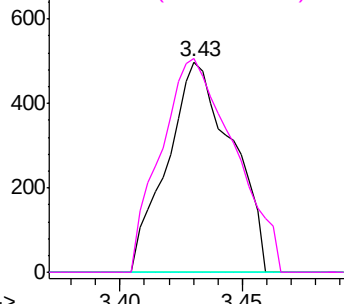


Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0



#27

cis-1,2-Dichloroethene

Concen: 1.674 ug/l

RT: 4.22 min Scan# 949

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

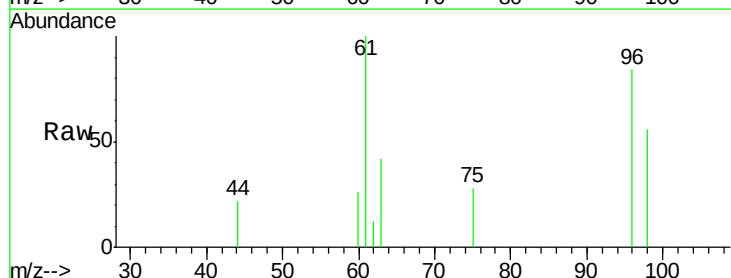
Tgt Ion: 96 Resp: 2445

Ion Ratio Lower Upper

96 100

61 127.1 0.0 285.6

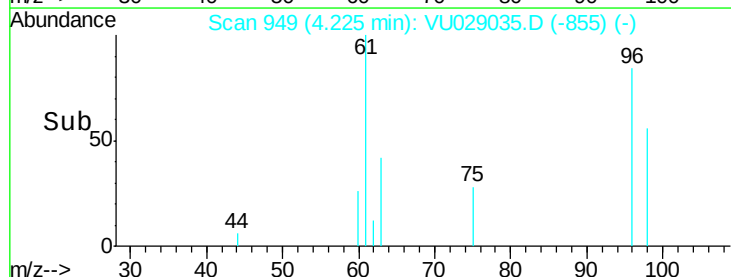
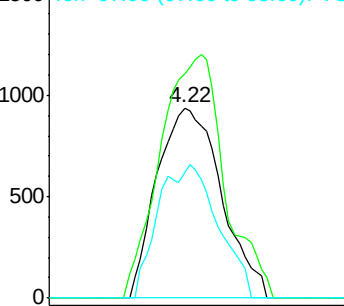
98 65.2 0.0 130.2

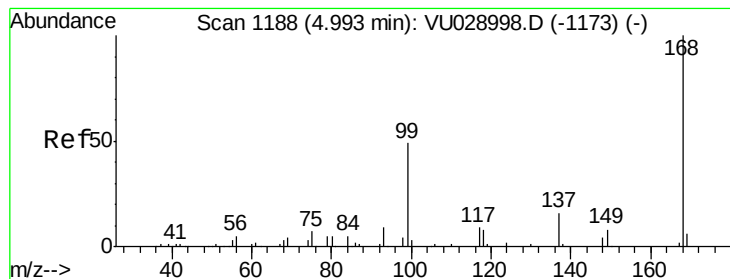


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#31

Cyclohexane

Concen: Below Cal

RT: 4.97 min Scan# 1182

Delta R.T. -0.02 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

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ClientSampleId :

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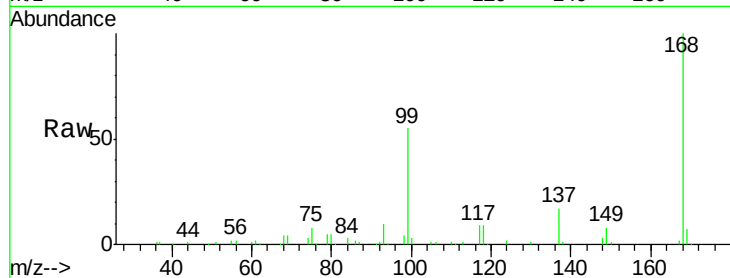
Tot Ion: 56 Resp: 962

Ion Ratio Lower Upper

56 100

69 204.8 26.7 40.1#

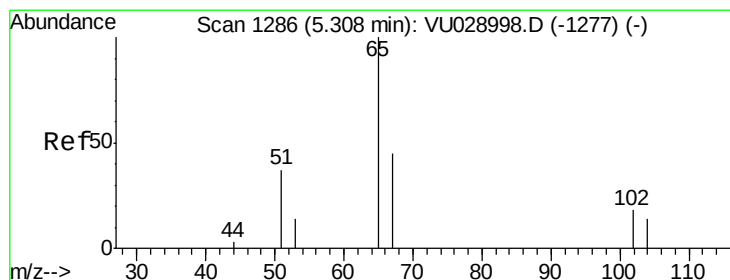
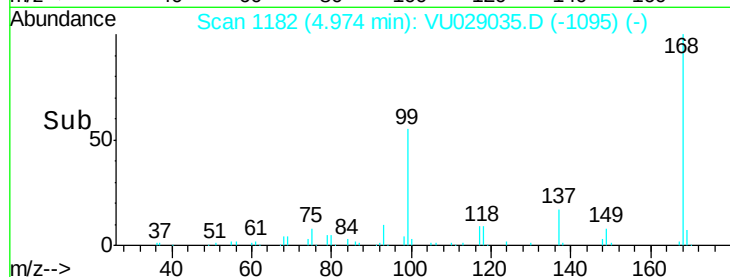
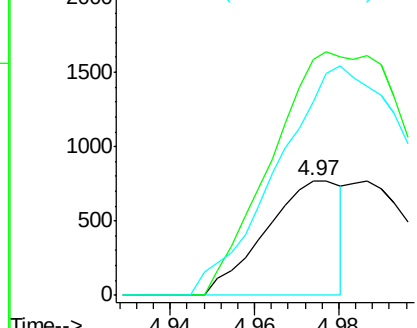
84 168.0 65.7 98.5#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 54.405 ug/l

RT: 5.30 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VU029035.D

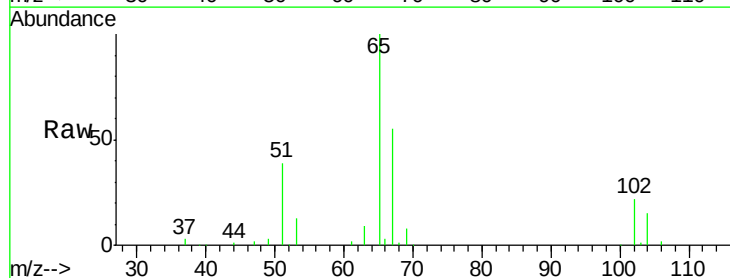
Acq: 04 Jan 2019 18:18

Tgt Ion: 65 Resp: 74543

Ion Ratio Lower Upper

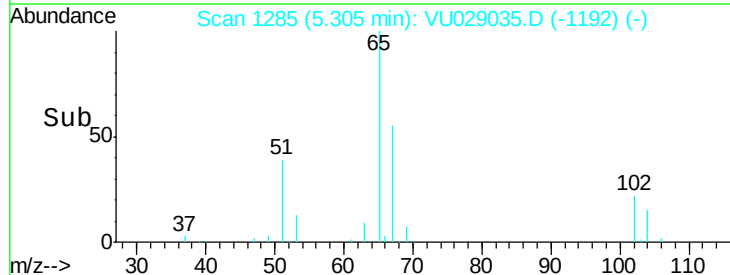
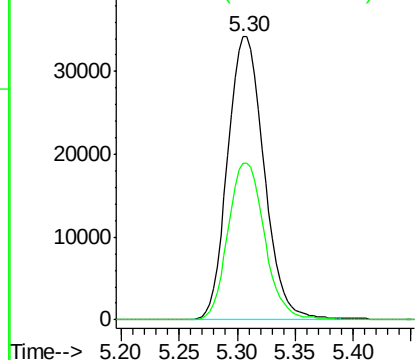
65 100

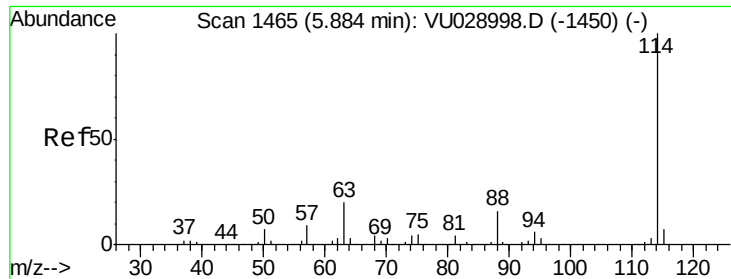
67 55.6 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampleId :

MW-3

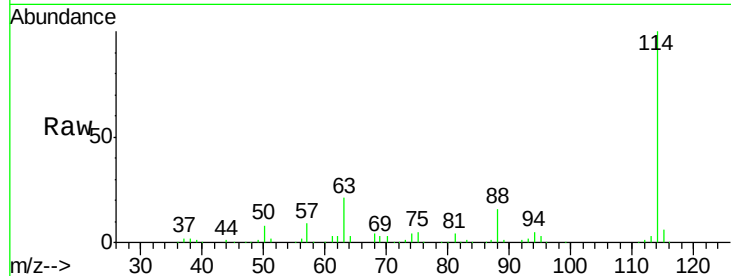
Tot Ion:114 Resp: 188849

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.2

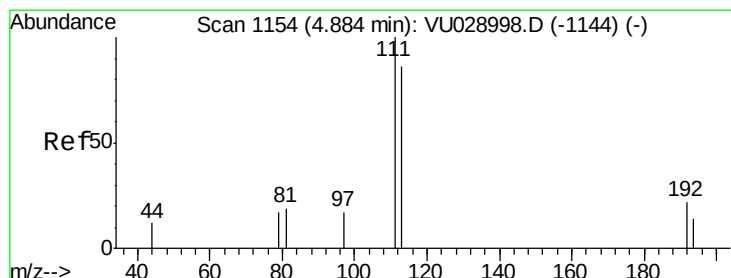
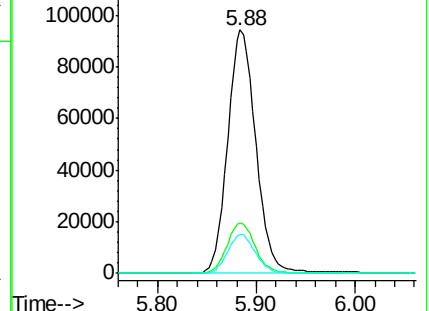
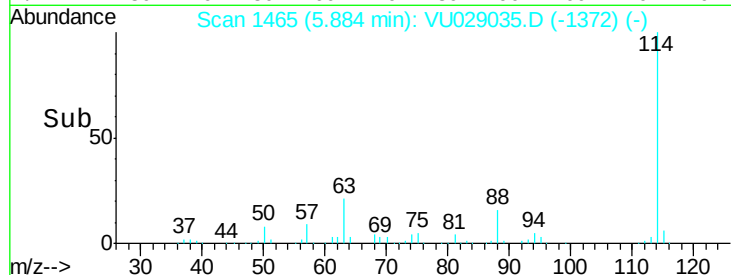
88 16.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 52.546 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

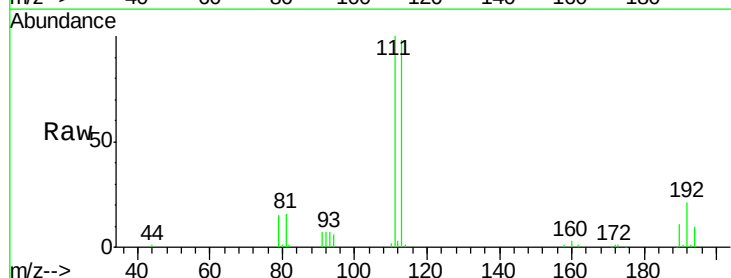
Tgt Ion:113 Resp: 64326

Ion Ratio Lower Upper

113 100

111 104.0 81.4 122.2

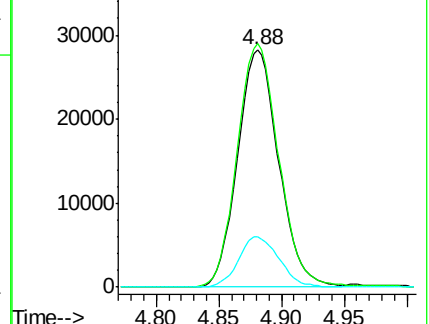
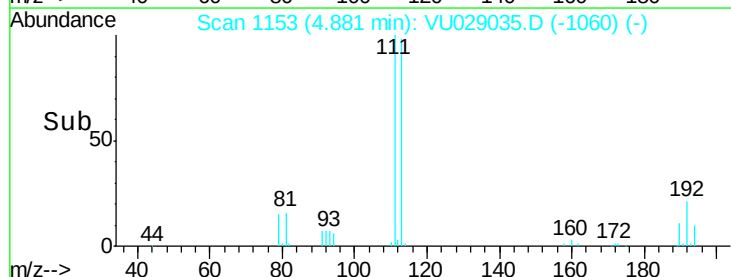
192 20.9 16.8 25.2

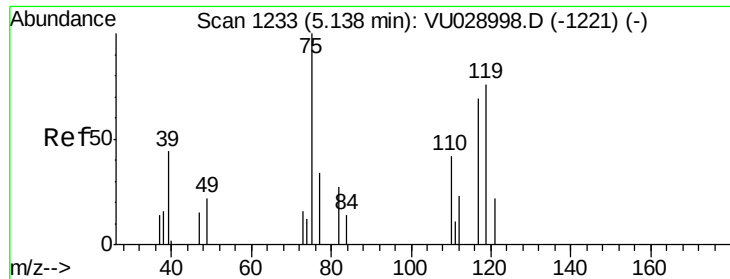


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

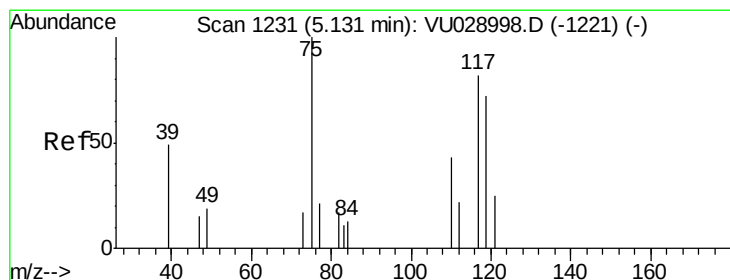
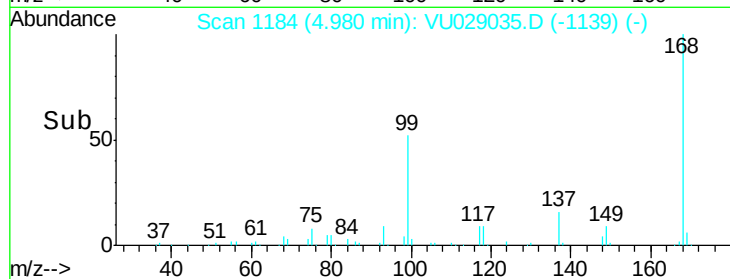
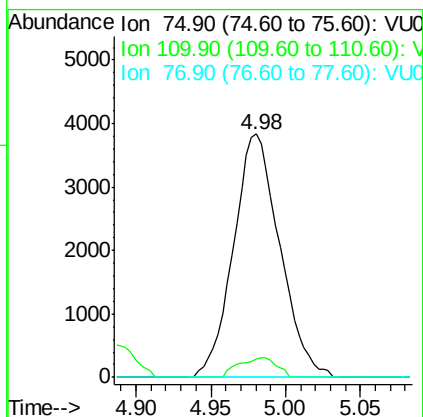
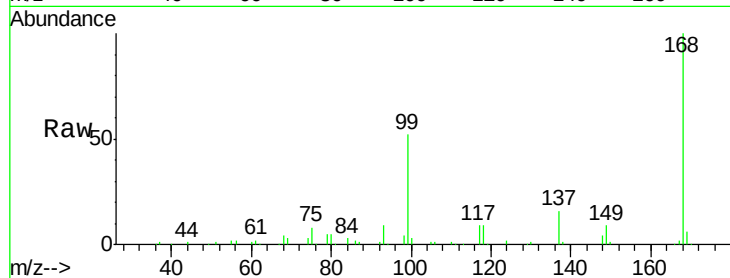




#36
 1,1-Dichloropropene
 Concen: 4.382 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029035.D
 Acq: 04 Jan 2019 18:18

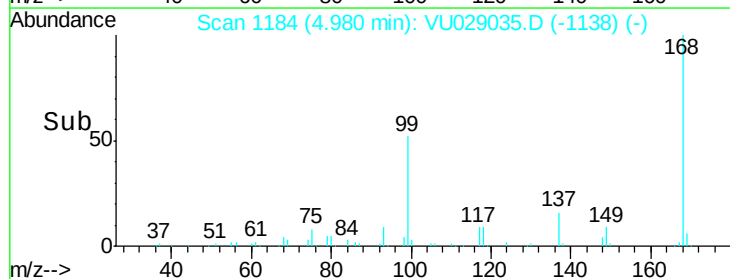
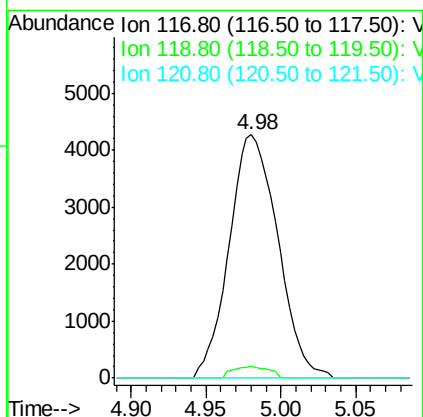
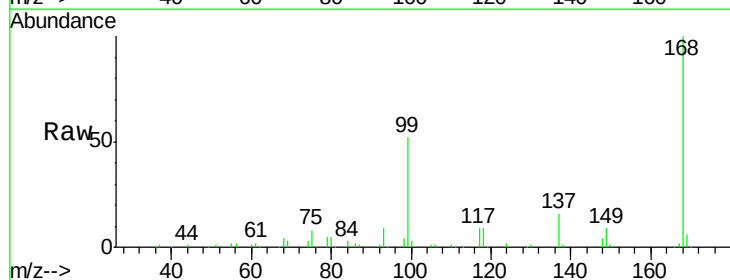
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-3

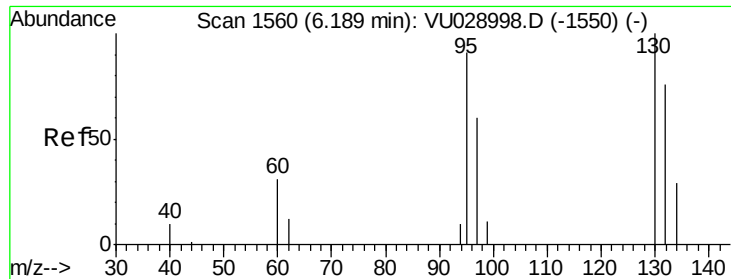
Tot Ion: 75 Resp: 8271
 Ion Ratio Lower Upper
 75 100
 110 6.6 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.144 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029035.D
 Acq: 04 Jan 2019 18:18

Tgt Ion: 117 Resp: 9673
 Ion Ratio Lower Upper
 117 100
 119 4.9 74.6 111.8#
 121 0.0 25.0 37.6#





#44

Trichloroethene

Concen: 0.221 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampleId :

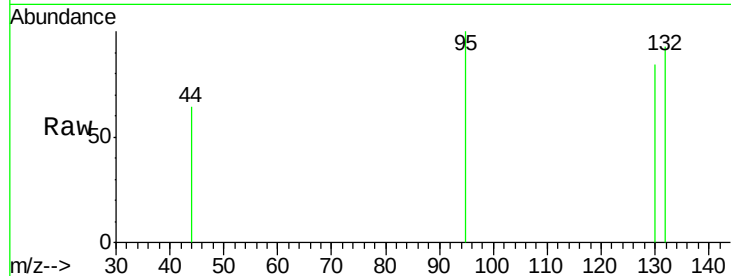
MW-3

Tot Ion:130 Resp: 323

Ion Ratio Lower Upper

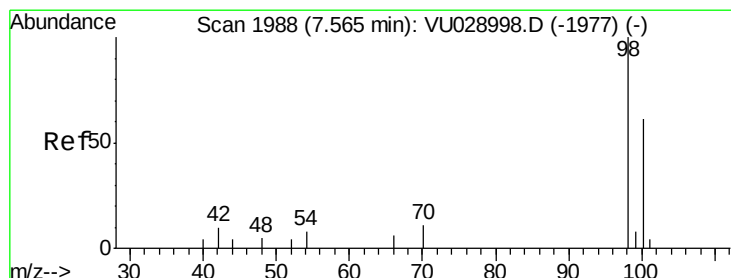
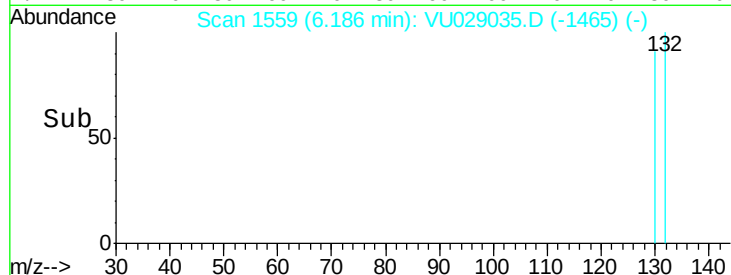
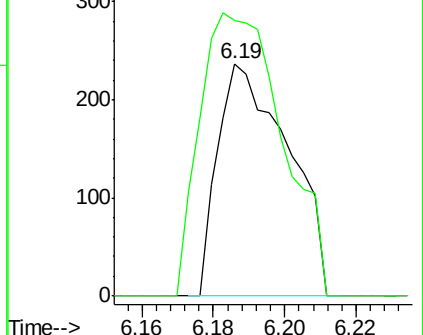
130 100

95 118.6 0.0 205.0



Abundance Ion 129.80 (129.50 to 130.50): VU028998.D (-1550) (-)

Ion 94.90 (94.60 to 95.60): VU028998.D (-1550) (-)



#50

Toluene-d8

Concen: 49.280 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029035.D

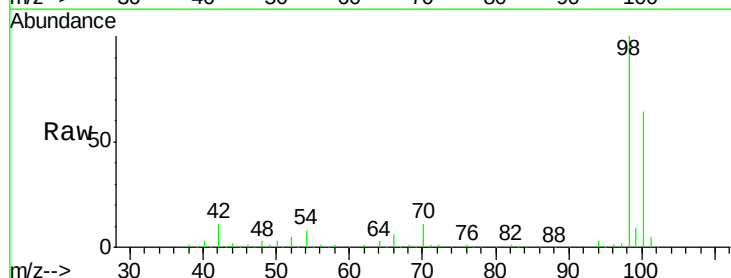
Acq: 04 Jan 2019 18:18

Tgt Ion: 98 Resp: 238163

Ion Ratio Lower Upper

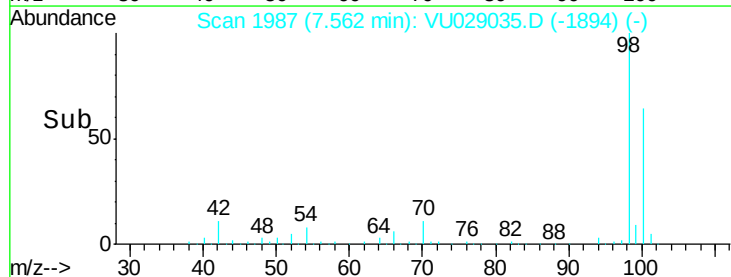
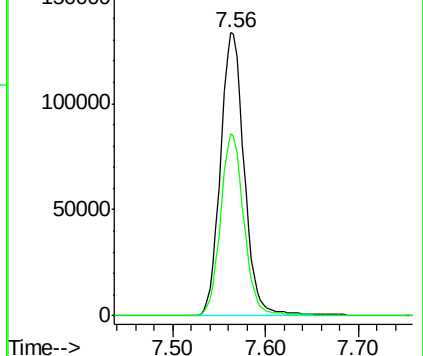
98 100

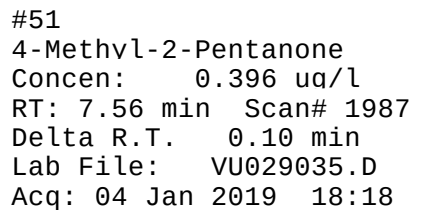
100 63.3 51.6 77.4



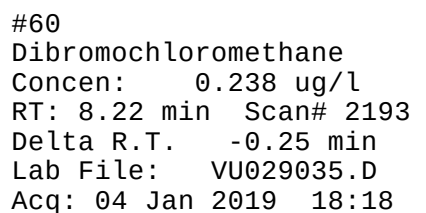
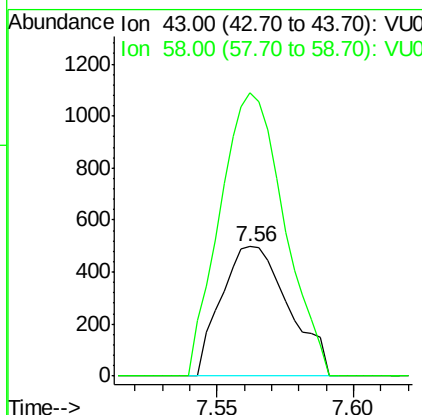
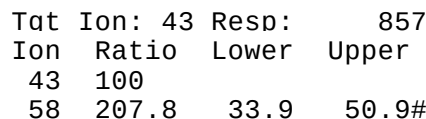
Abundance Ion 98.00 (97.70 to 98.70): VU028998.D (-1977) (-)

Ion 100.00 (99.70 to 100.70): VU028998.D (-1977) (-)

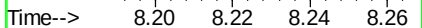
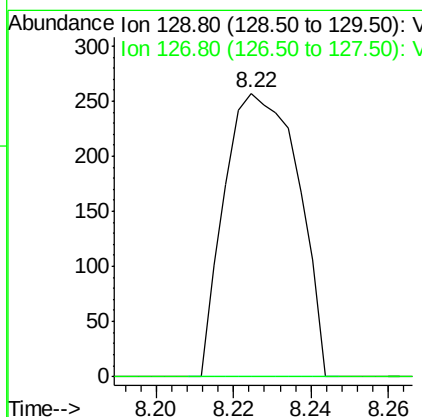


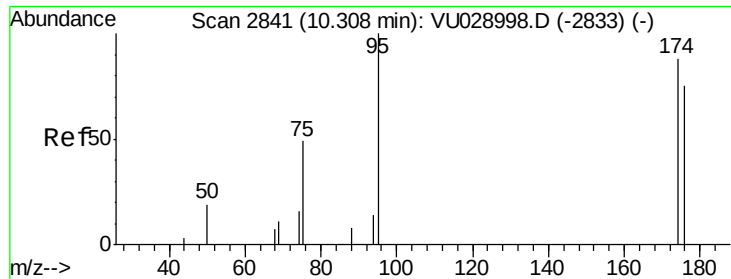


Instrument :
MSVOA_U
ClientSampleId :
MW-3



Tgt	Ion:129	Resp:	339
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.0	114.0#

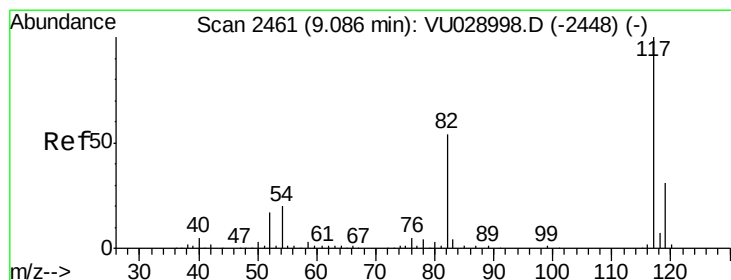
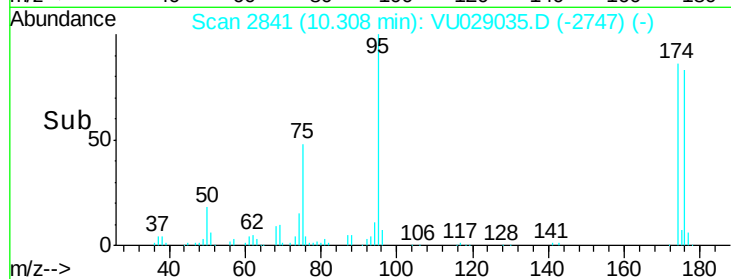
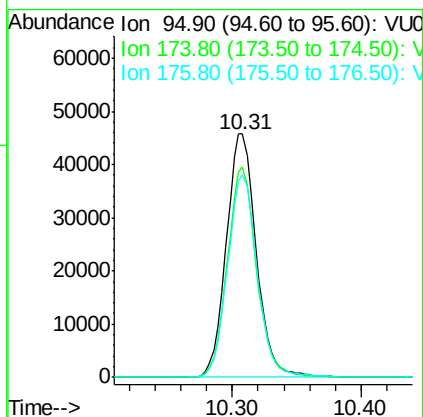
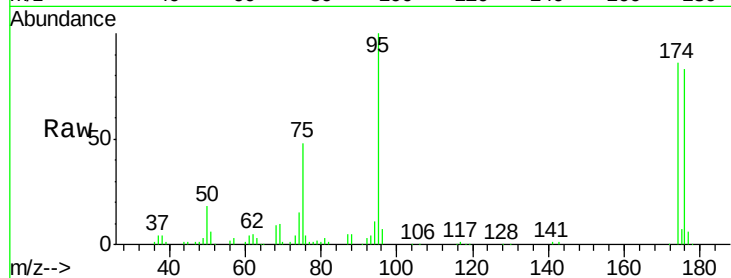




#62
 4-Bromofluorobenzene
 Concen: 42.525 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU029035.D
 Acq: 04 Jan 2019 18:18

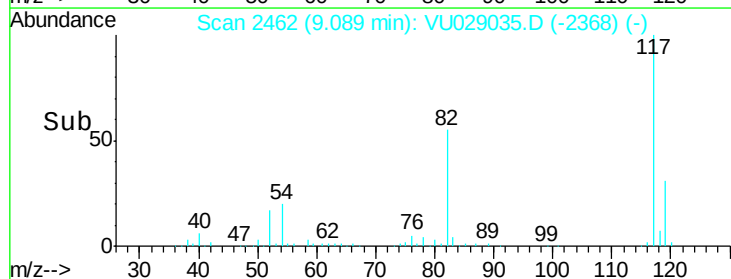
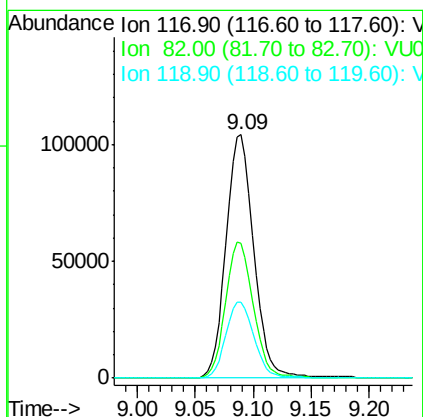
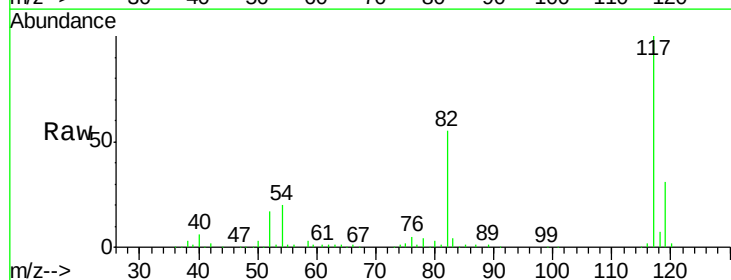
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-3

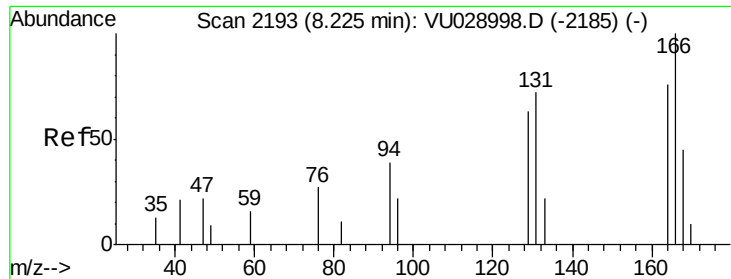
Tot Ion: 95 Resp: 73860
 Ion Ratio Lower Upper
 95 100
 174 84.4 0.0 170.6
 176 82.5 0.0 165.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. 0.00 min
 Lab File: VU029035.D
 Acq: 04 Jan 2019 18:18

Tgt Ion: 117 Resp: 172867
 Ion Ratio Lower Upper
 117 100
 82 55.4 43.9 65.9
 119 31.4 26.0 39.0





#64

Tetrachloroethene

Concen: 0.219 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampleId :

MW-3

Tot Ion:164 Resp: 273

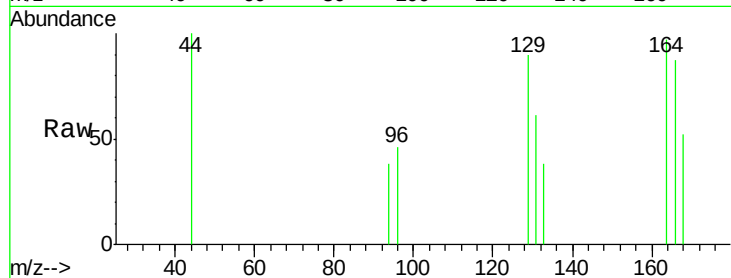
Ion Ratio Lower Upper

164 100

166 90.2 99.4 149.0#

129 93.2 70.5 105.7

131 62.9 69.0 103.6#

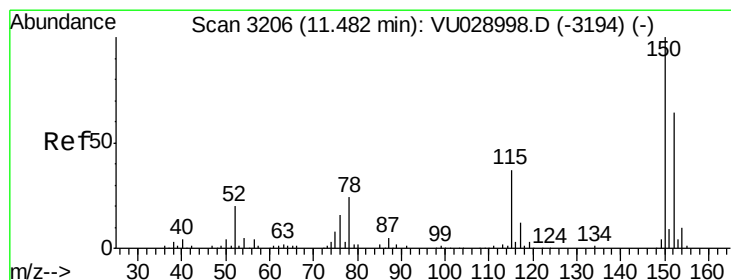
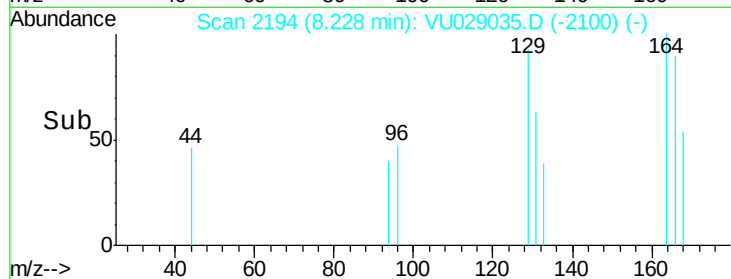
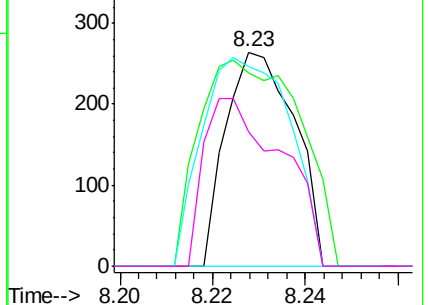


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

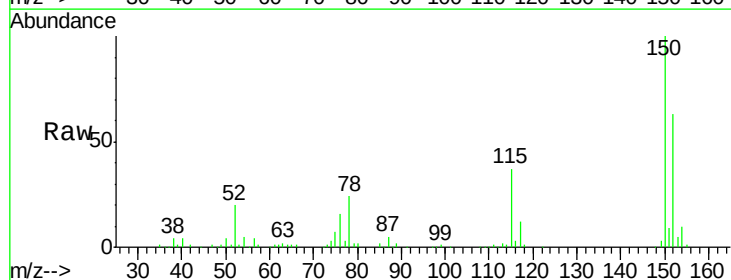
Tgt Ion:152 Resp: 67517

Ion Ratio Lower Upper

152 100

115 57.3 40.1 120.3

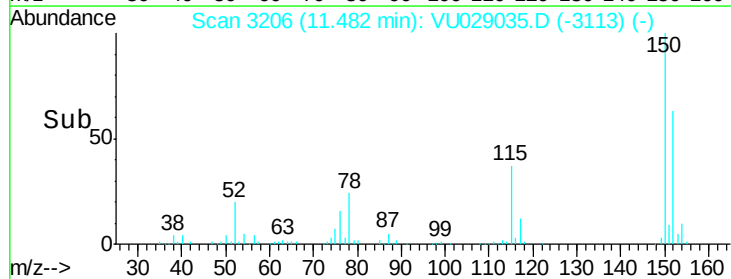
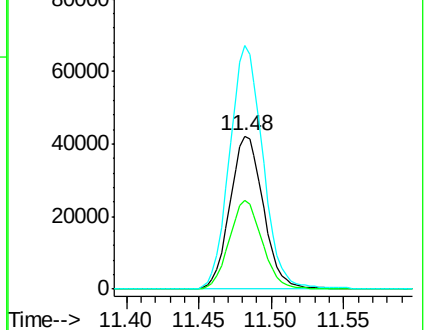
150 158.6 0.0 345.2

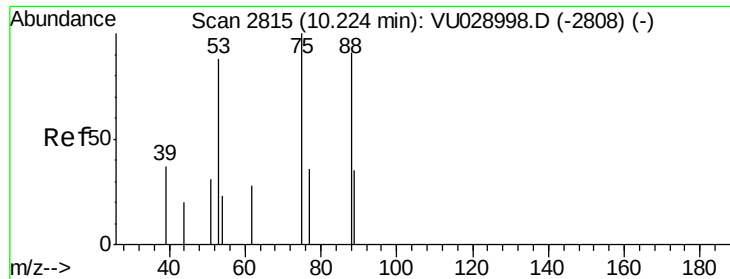


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.713 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

Instrument :

MSVOA_U

ClientSampleId :

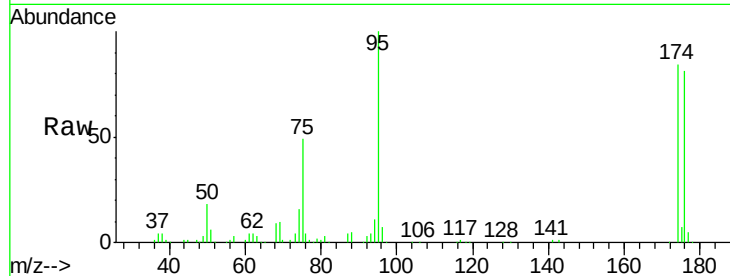
MW-3

Tot Ion: 75 Resp: 35920

Ion Ratio Lower Upper

75 100

77 1.4 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

25000

20000

15000

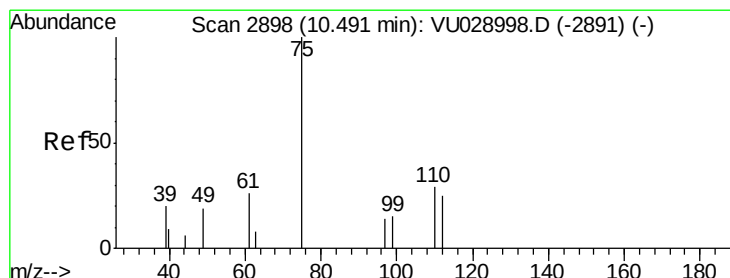
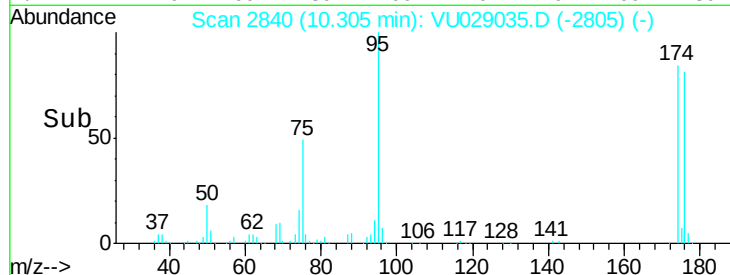
10000

5000

0

10.25 10.30 10.35 10.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 56.000 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029035.D

Acq: 04 Jan 2019 18:18

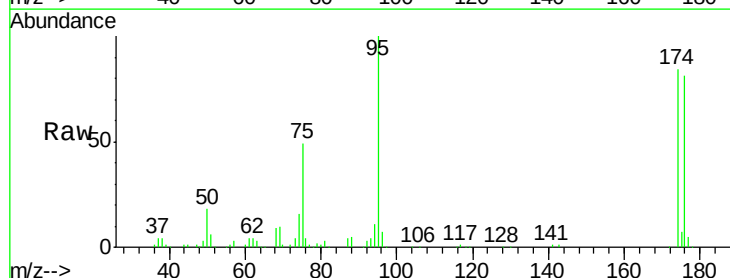
Tgt Ion: 75 Resp: 35920

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): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

30000

25000

20000

15000

10000

5000

0

10.25 10.30 10.35 10.40

Time-->

