

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092418\
 Data File : VU027113.D
 Acq On : 24 Sep 2018 16:54
 Operator : MD/SY
 Sample : J4969-16
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FT-PZ456I-20180917

Quant Time: Sep 25 01:36:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 22 01:31:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	92756	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	157646	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	151399	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	69525	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	97500	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
35) Dibromofluoromethane	4.88	113	67936	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
50) Toluene-d8	7.57	98	257249	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
62) 4-Bromofluorobenzene	10.31	95	82140	45.97	ug/l	0.00
Spiked Amount			Recovery	=	91.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.56	64	6355	5.103	ug/l #	50
14) Allyl chloride	2.44	41	3062	1.178	ug/l #	72
16) Acetone	2.32	43	4485	Below Cal		94
18) Methyl Acetate	2.44	43	7666	2.885	ug/l #	55
20) Methylene Chloride	2.71	84	415	0.248	ug/l #	92
24) 1,1-Dichloroethane	3.45	63	1144	0.374	ug/l #	84
31) Cyclohexane	4.98	56	2358	0.276	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	8872	4.217	ug/l #	49
38) Carbon Tetrachloride	4.98	117	9874	4.932	ug/l #	18
44) Trichloroethene	6.19	130	689	0.506	ug/l	100
51) 4-Methyl-2-Pentanone	7.57	43	1176	0.421	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	44502	21.070	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	44502	67.426	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

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ClientSampleId :

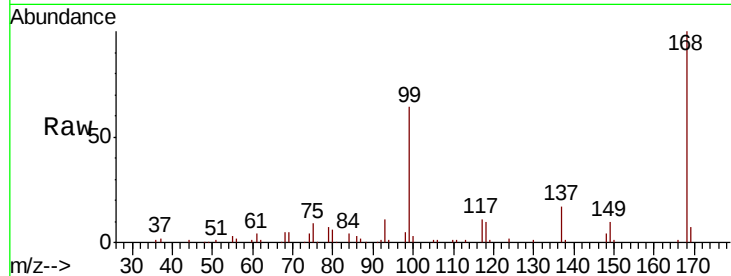
FT-PZ456I-20180917

Tgt Ion:168 Resp: 92756

Ion Ratio Lower Upper

168 100

99 64.2 48.1 72.1



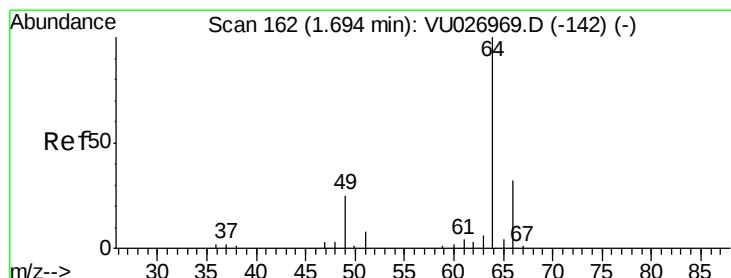
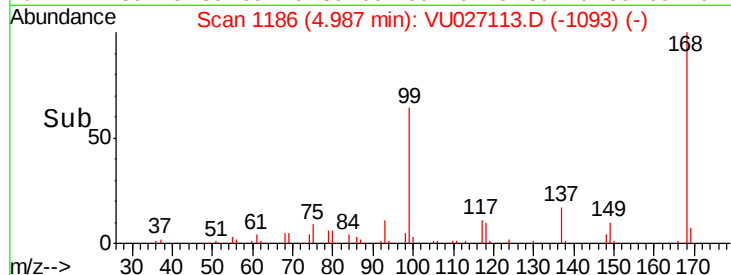
Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

4.95 5.00 5.05

Time-->



#6

Chloroethane

Concen: 5.103 ug/l

RT: 1.56 min Scan# 119

Delta R.T. -0.14 min

Lab File: VU027113.D

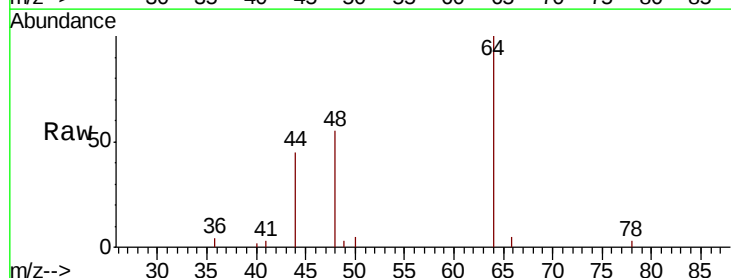
Acq: 24 Sep 2018 16:54

Tgt Ion: 64 Resp: 6355

Ion Ratio Lower Upper

64 100

66 3.8 25.3 37.9#



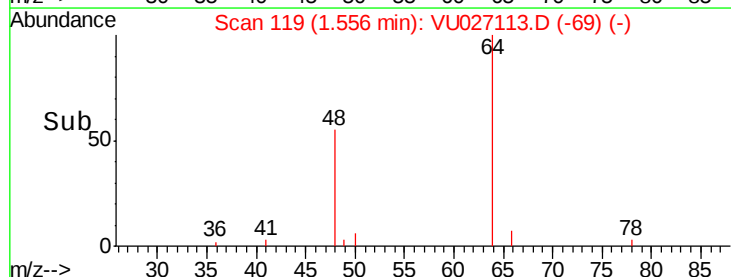
Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

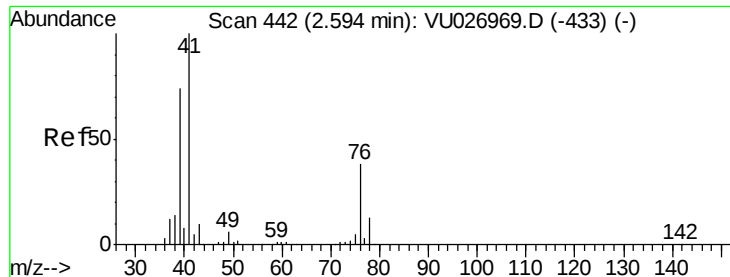
Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)

1.56

1.45 1.50 1.55

Time-->

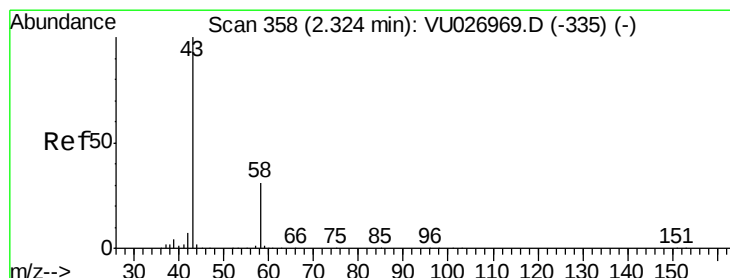
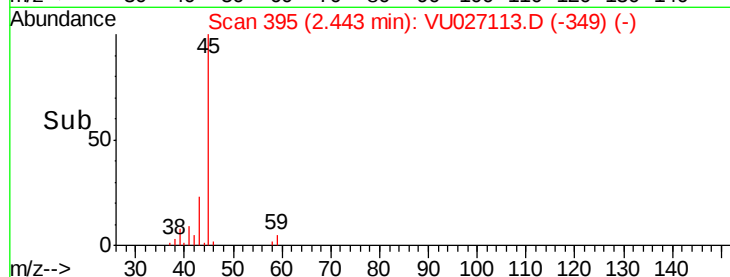
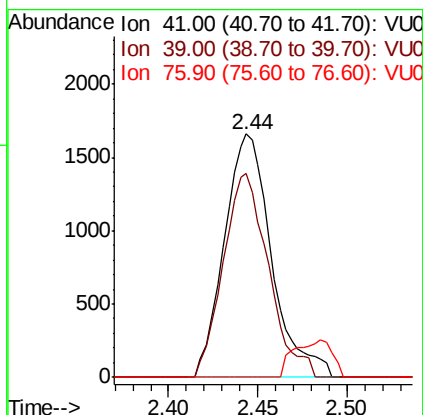
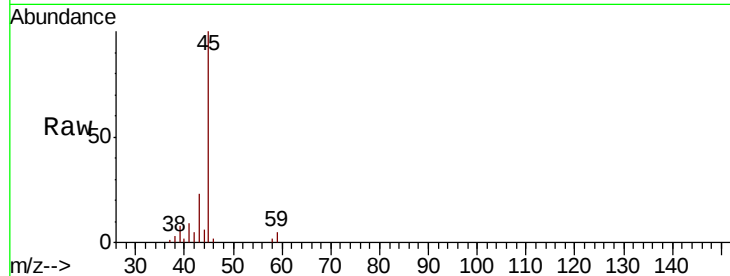




#14
 Allyl chloride
 Concen: 1.178 ug/l
 RT: 2.44 min Scan# 395
 Delta R.T. -0.15 min
 Lab File: VU027113.D
 Acq: 24 Sep 2018 16:54

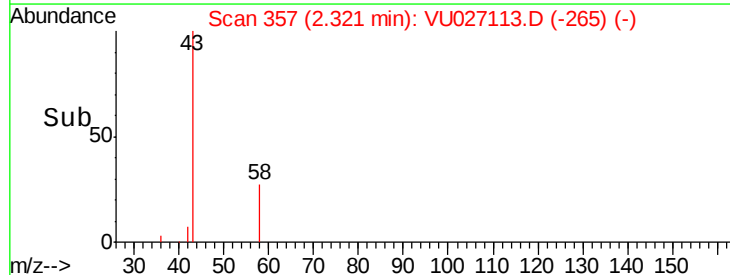
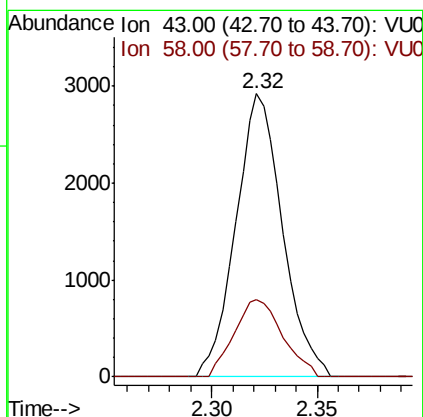
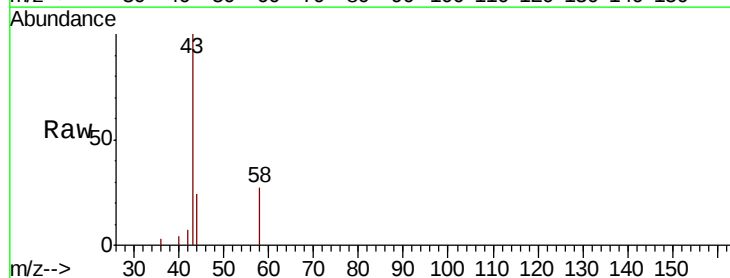
Instrument :
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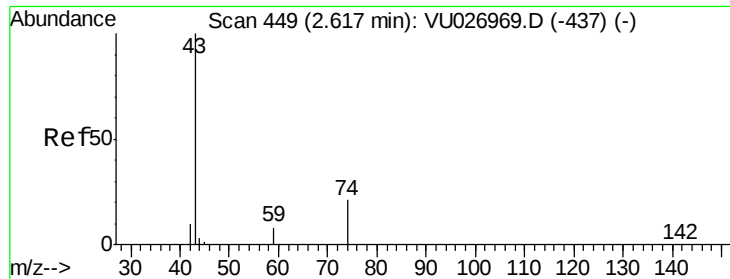
Tgt Ion: 41 Resp: 3062
 Ion Ratio Lower Upper
 41 100
 39 80.1 55.7 83.5
 76 0.0 26.5 39.7#



#16
 Acetone
 Concen: Below Cal
 RT: 2.32 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VU027113.D
 Acq: 24 Sep 2018 16:54

Tgt Ion: 43 Resp: 4485
 Ion Ratio Lower Upper
 43 100
 58 27.3 24.6 36.8

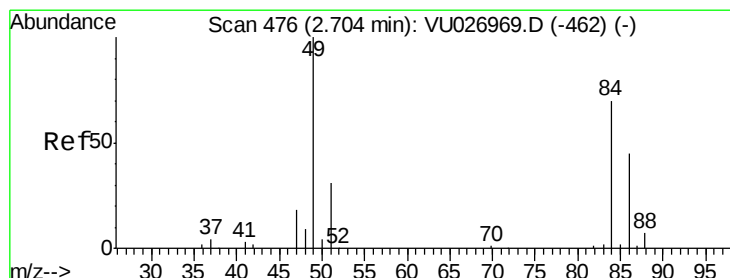
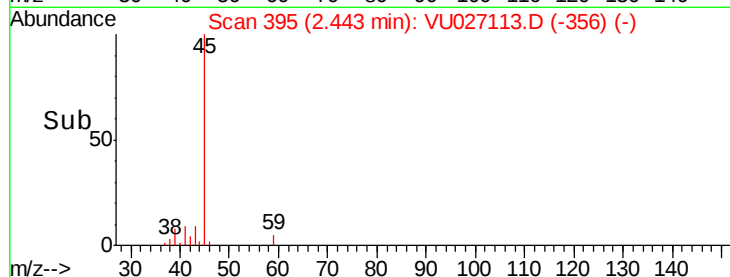
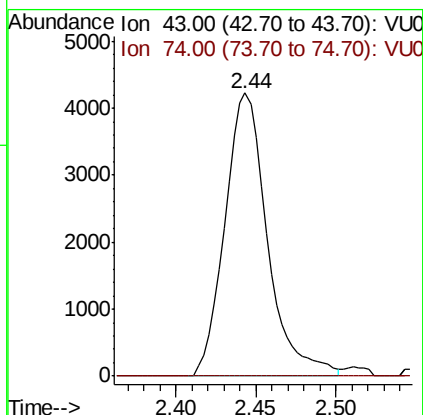
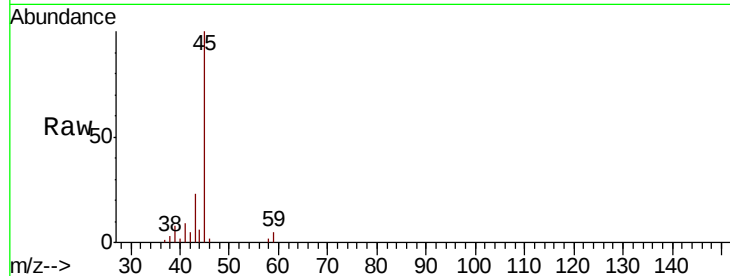




#18
Methyl Acetate
Concen: 2.885 ug/l
RT: 2.44 min Scan# 395
Delta R.T. -0.17 min
Lab File: VU027113.D
Acq: 24 Sep 2018 16:54

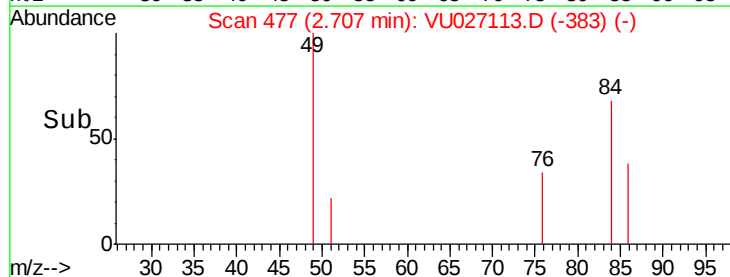
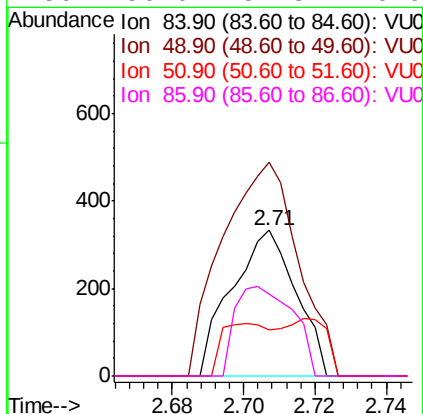
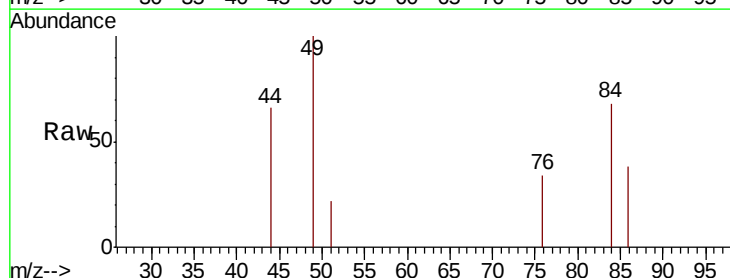
Instrument :
MSVOA_U
ClientSampleId :
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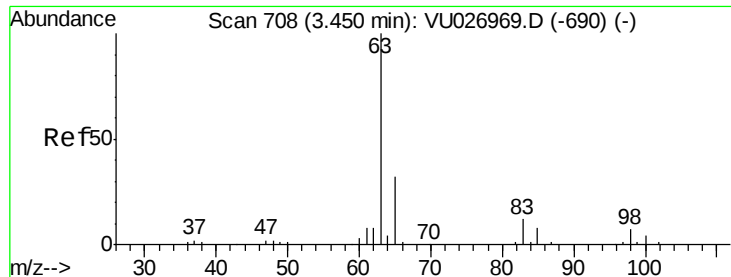
Tgt Ion: 43 Resp: 7666
Ion Ratio Lower Upper
43 100
74 0.0 16.6 25.0#



#20
Methylene Chloride
Concen: 0.248 ug/l
RT: 2.71 min Scan# 477
Delta R.T. 0.00 min
Lab File: VU027113.D
Acq: 24 Sep 2018 16:54

Tgt Ion: 84 Resp: 415
Ion Ratio Lower Upper
84 100
49 147.0 114.9 172.3
51 31.6 35.8 53.8#
86 56.0 51.3 76.9





#24

1,1-Dichloroethane

Concen: 0.374 ug/l

RT: 3.45 min Scan# 707

Delta R.T. -0.00 min

Lab File: VU027113.D

Acq: 24 Sep 2018 16:54

Instrument :

MSVOA_U

ClientSampleId :

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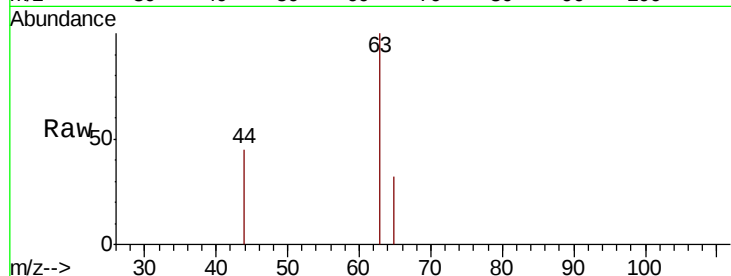
Tgt Ion: 63 Resp: 1144

Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.8#

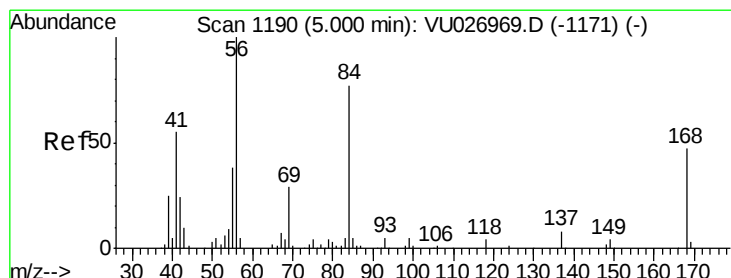
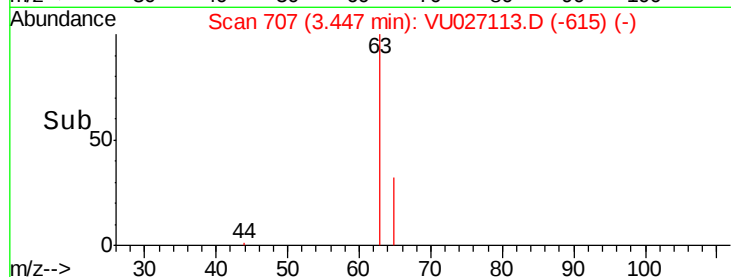
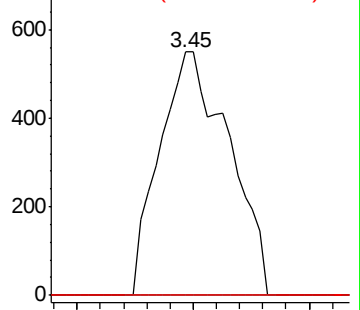
100 0.0 2.0 5.8#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0



#31

Cyclohexane

Concen: 0.276 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027113.D

Acq: 24 Sep 2018 16:54

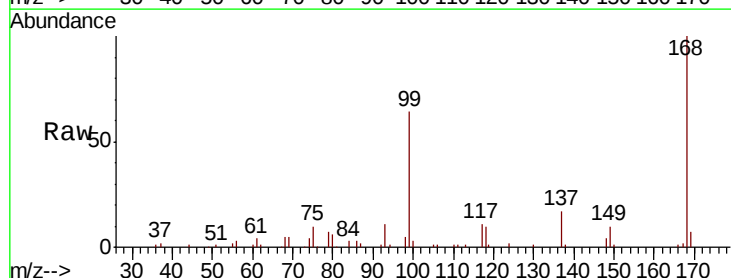
Tgt Ion: 56 Resp: 2358

Ion Ratio Lower Upper

56 100

69 187.9 23.0 34.4#

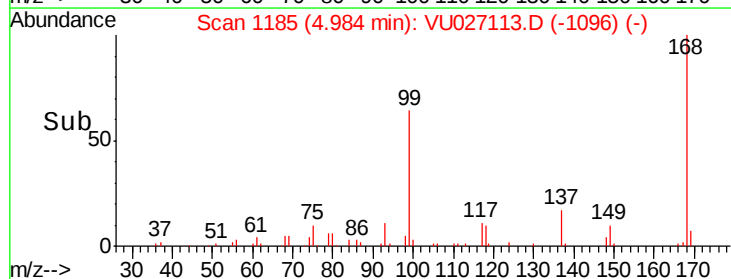
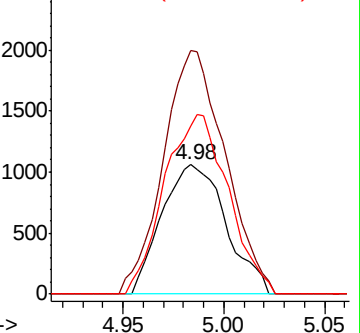
84 129.9 61.4 92.2#

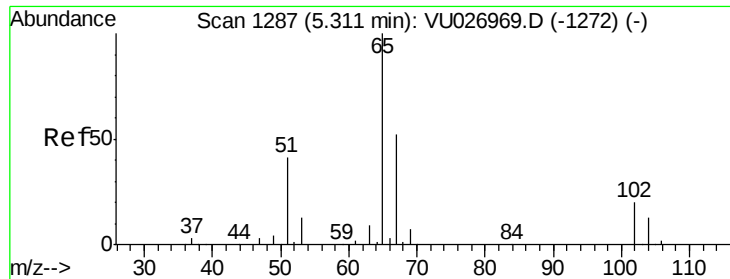


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

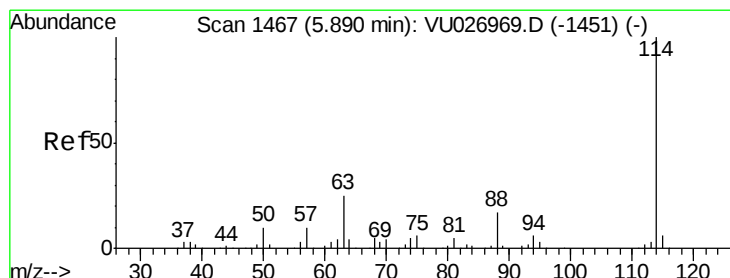
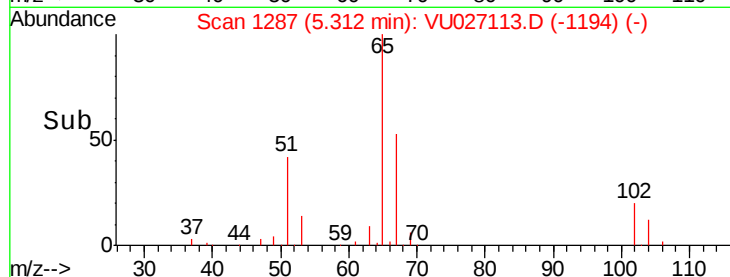
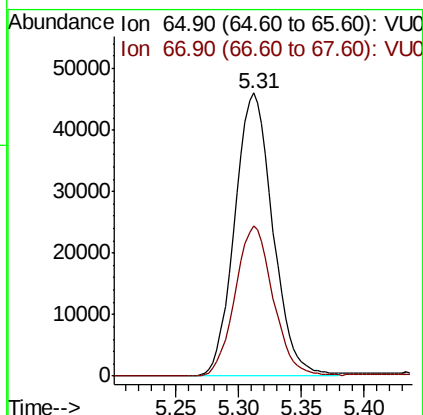
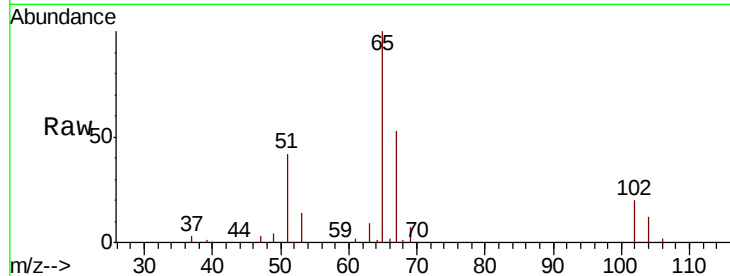




#33
 1,2-Dichloroethane-d4
 Concen: 52.226 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027113.D
 Acq: 24 Sep 2018 16:54

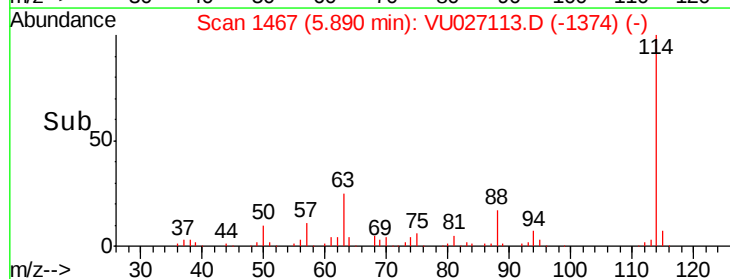
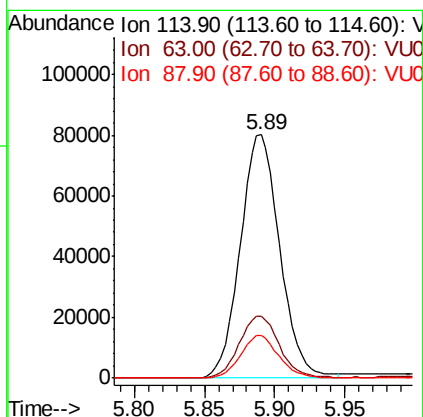
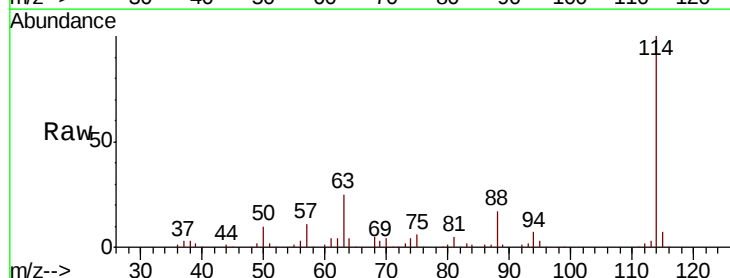
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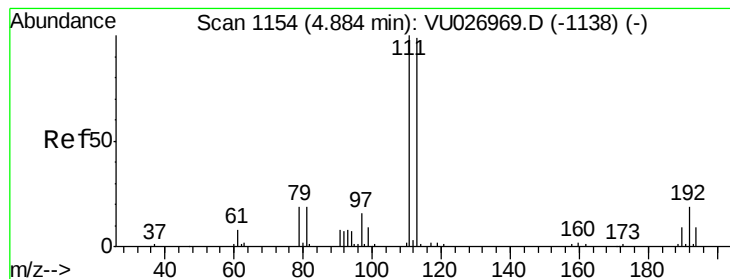
Tgt Ion: 65 Resp: 97500
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027113.D
 Acq: 24 Sep 2018 16:54

Tgt Ion: 114 Resp: 157646
 Ion Ratio Lower Upper
 114 100
 63 25.4 0.0 49.2
 88 17.4 0.0 33.8





#35

Dibromofluoromethane

Concen: 49.716 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027113.D

Acq: 24 Sep 2018 16:54

Instrument :

MSVOA_U

ClientSampleId :

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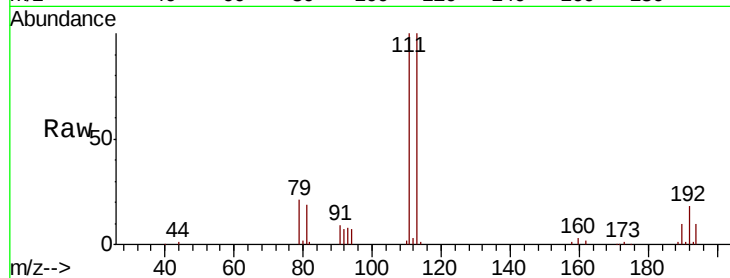
Tgt Ion:113 Resp: 67936

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

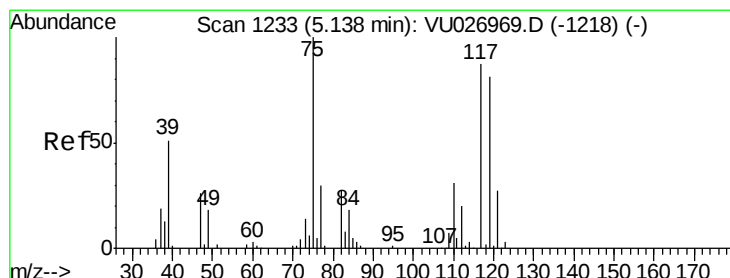
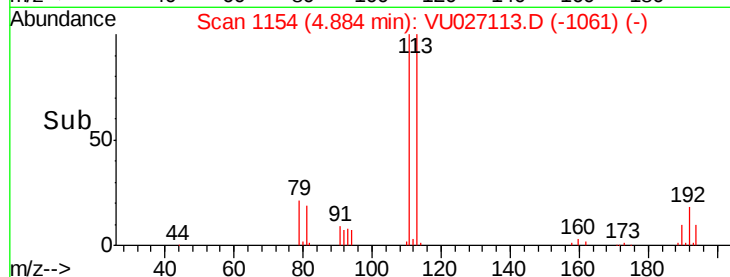
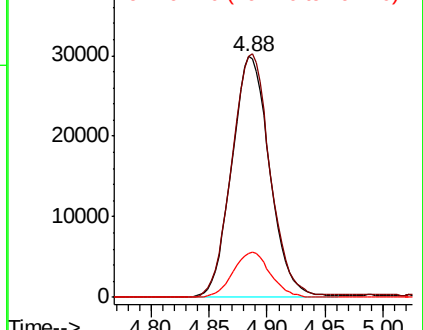
192 18.3 15.2 22.8



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: 4.217 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027113.D

Acq: 24 Sep 2018 16:54

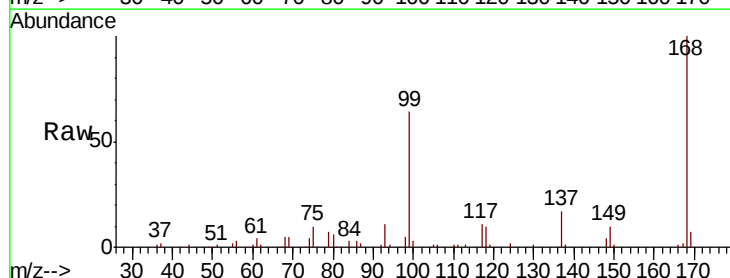
Tgt Ion: 75 Resp: 8872

Ion Ratio Lower Upper

75 100

110 6.4 16.1 48.2#

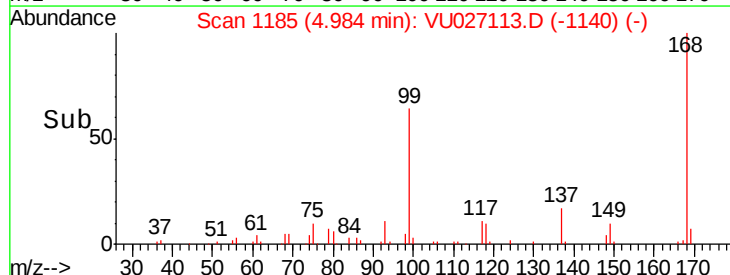
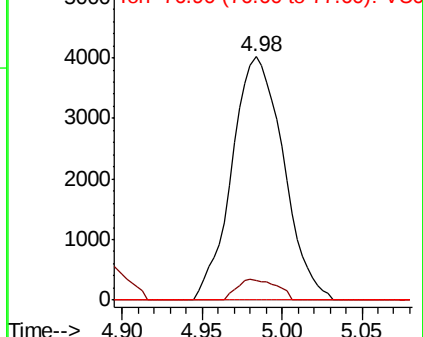
77 0.0 24.6 36.8#

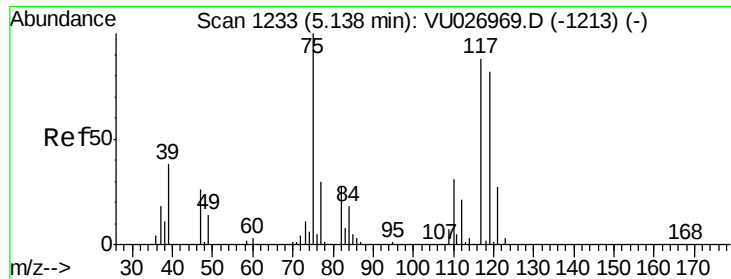


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.932 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027113.D

Acq: 24 Sep 2018 16:54

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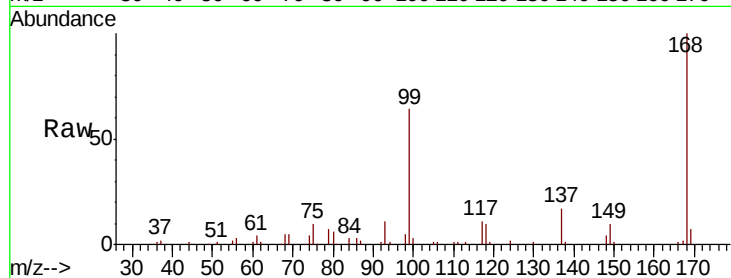
Tgt Ion:117 Resp: 9874

Ion Ratio Lower Upper

117 100

119 5.4 74.4 111.6#

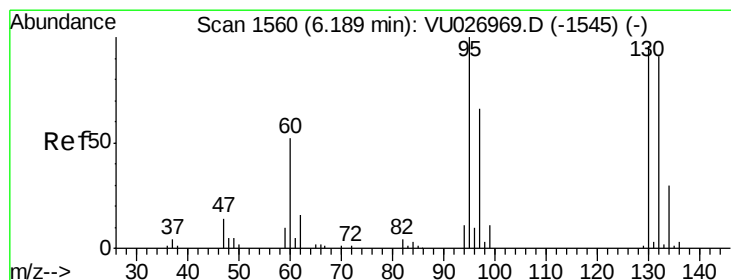
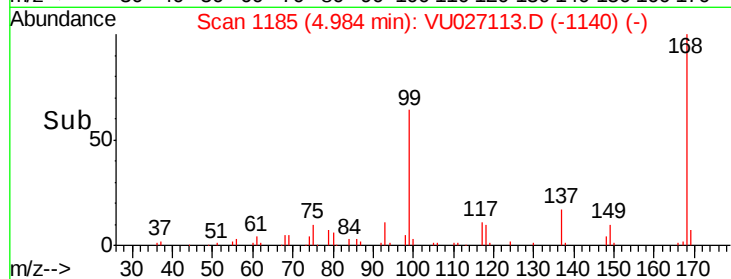
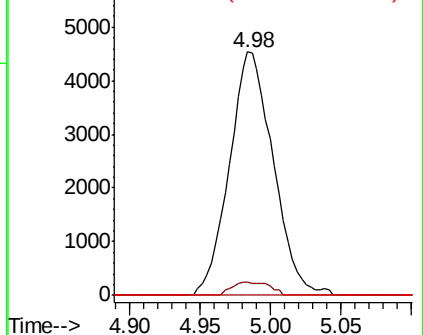
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.506 ug/l

RT: 6.19 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VU027113.D

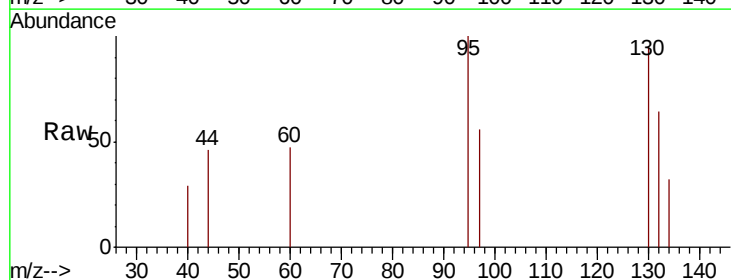
Acq: 24 Sep 2018 16:54

Tgt Ion:130 Resp: 689

Ion Ratio Lower Upper

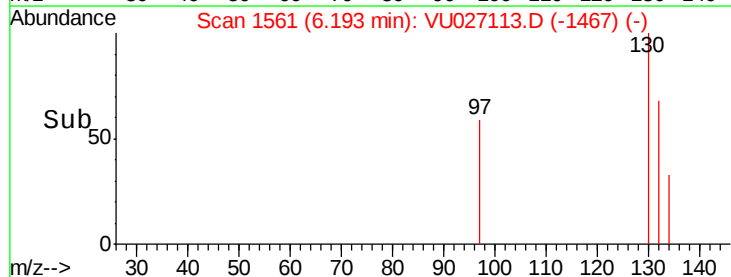
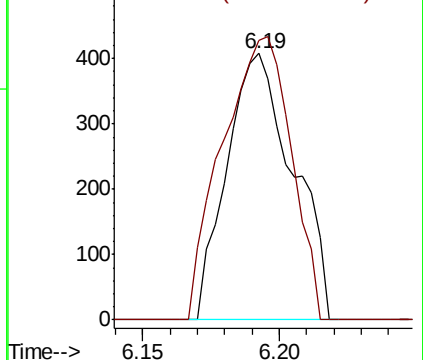
130 100

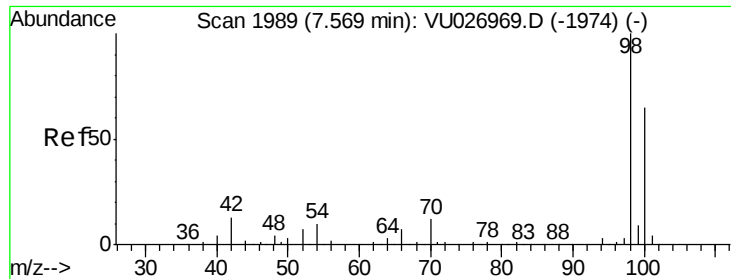
95 104.9 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 49.398 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027113.D

Acq: 24 Sep 2018 16:54

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ClientSampleId :

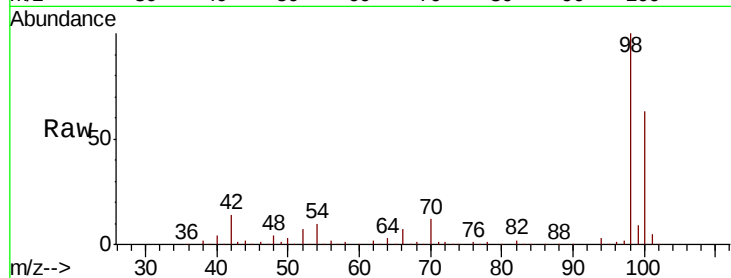
FT-PZ456I-20180917

Tgt Ion: 98 Resp: 257249

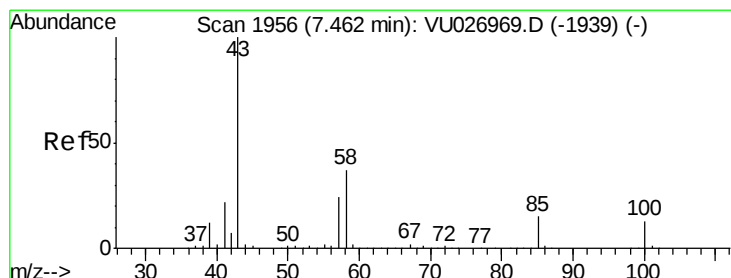
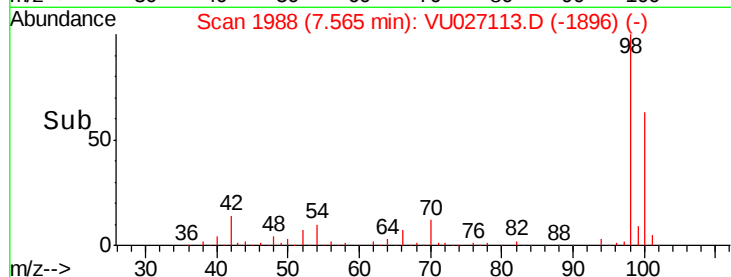
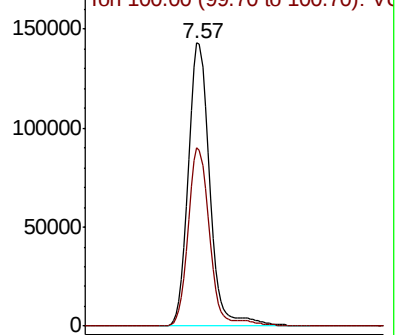
Ion Ratio Lower Upper

98 100

100 63.1 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.421 ug/l

RT: 7.57 min Scan# 1989

Delta R.T. 0.11 min

Lab File: VU027113.D

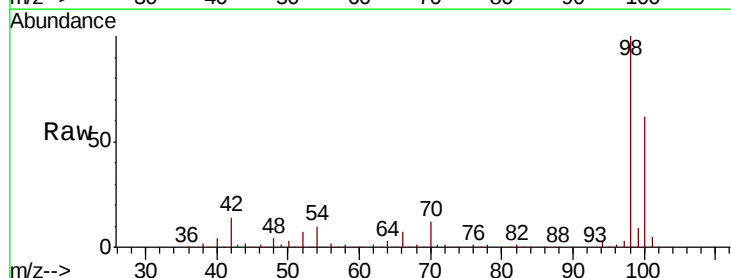
Acq: 24 Sep 2018 16:54

Tgt Ion: 43 Resp: 1176

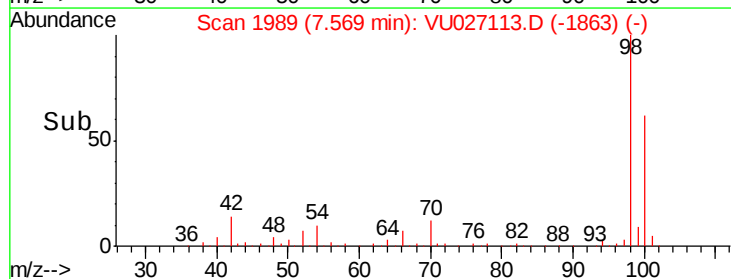
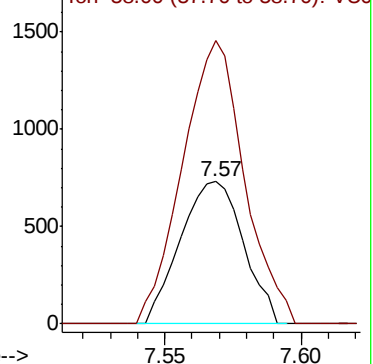
Ion Ratio Lower Upper

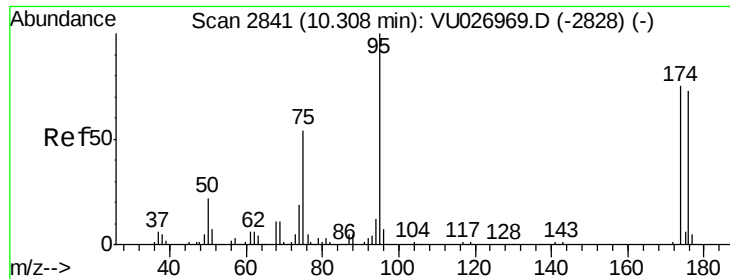
43 100

58 194.6 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1939) (-)

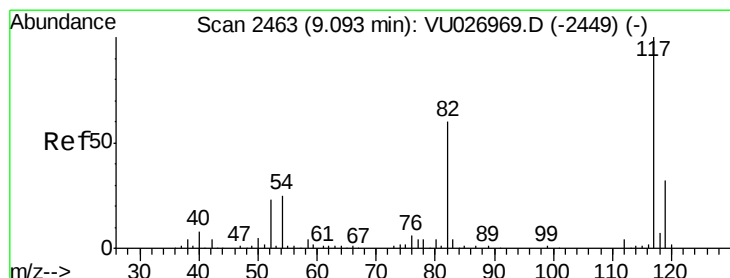
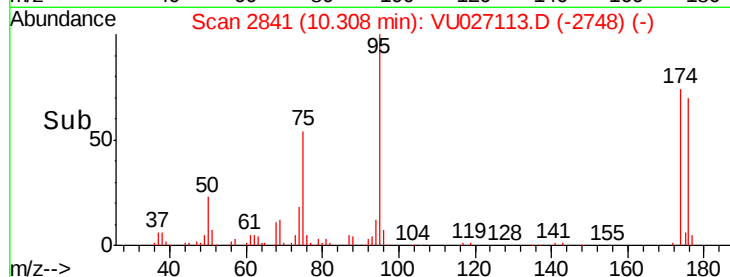
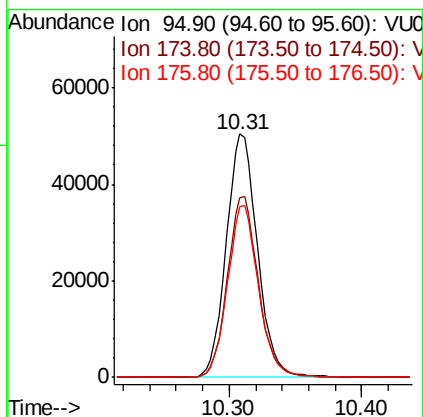
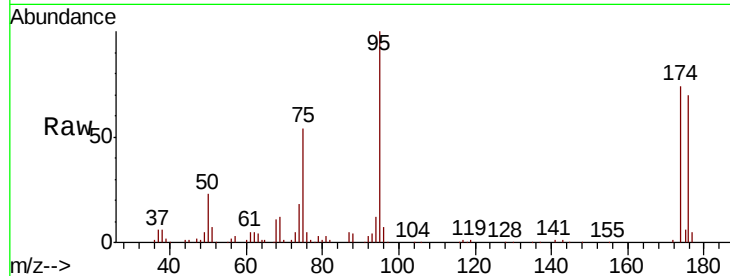




#62
 4-Bromofluorobenzene
 Concen: 45.967 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. 0.00 min
 Lab File: VU027113.D
 Acq: 24 Sep 2018 16:54

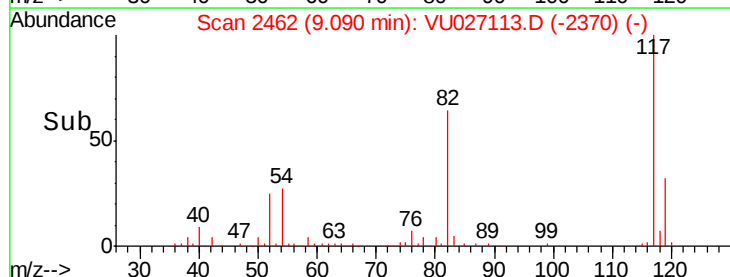
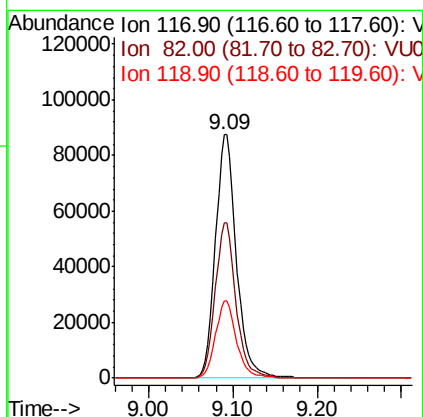
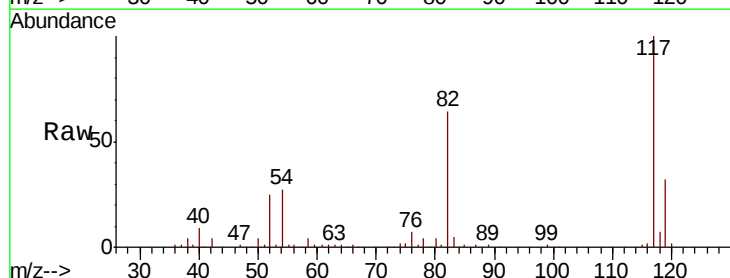
Instrument :
 MSVOA_U
 ClientSampleId :
 FT-PZ456I-20180917

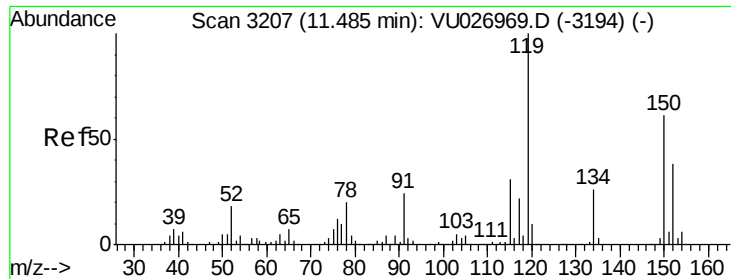
Tgt Ion: 95 Resp: 82140
 Ion Ratio Lower Upper
 95 100
 174 74.0 0.0 150.2
 176 70.1 0.0 145.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2462
 Delta R.T. -0.00 min
 Lab File: VU027113.D
 Acq: 24 Sep 2018 16:54

Tgt Ion: 117 Resp: 151399
 Ion Ratio Lower Upper
 117 100
 82 64.0 48.0 72.0
 119 32.0 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027113.D

Acq: 24 Sep 2018 16:54

Instrument :

MSVOA_U

ClientSampleId :

FT-PZ456I-20180917

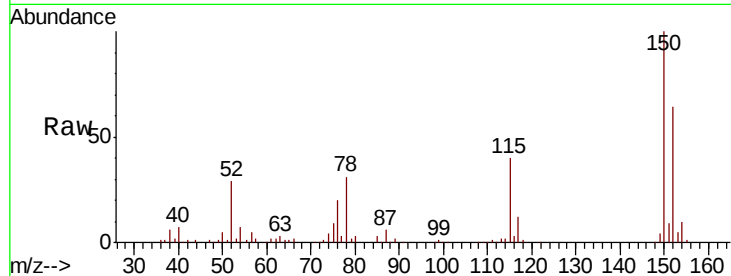
Tgt Ion:152 Resp: 69525

Ion Ratio Lower Upper

152 100

115 62.7 44.9 134.5

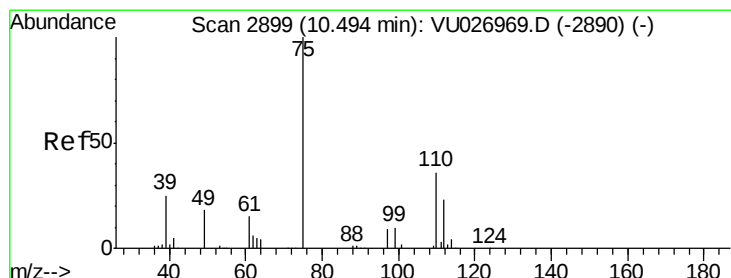
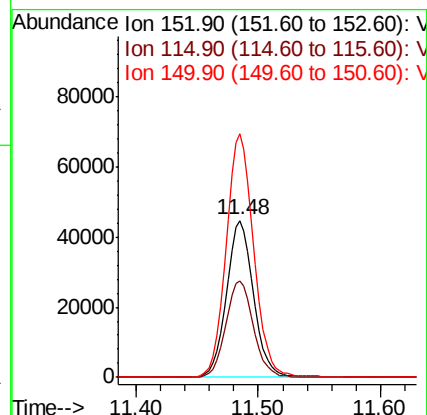
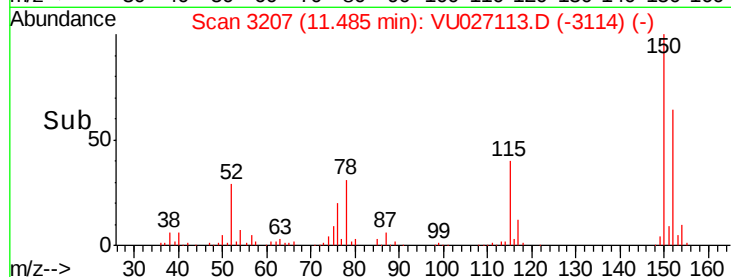
150 158.0 0.0 355.8



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: 21.070 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027113.D

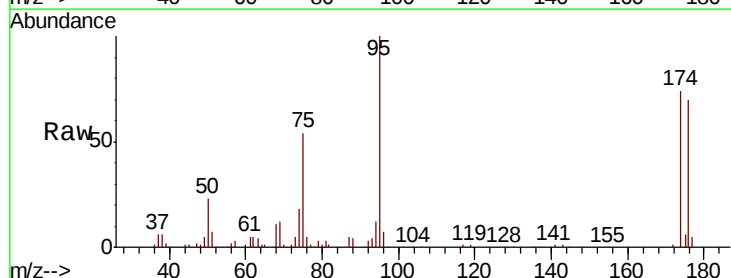
Acq: 24 Sep 2018 16:54

Tgt Ion: 75 Resp: 44502

Ion Ratio Lower Upper

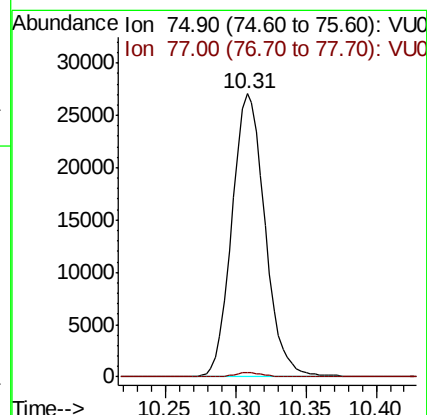
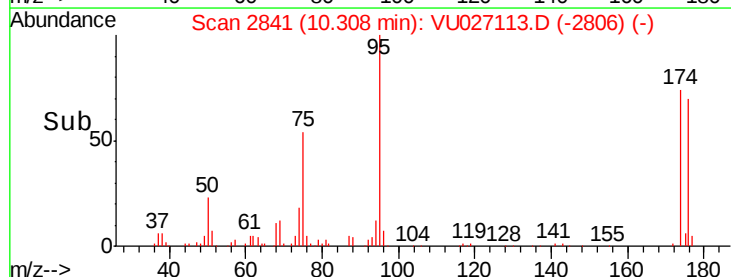
75 100

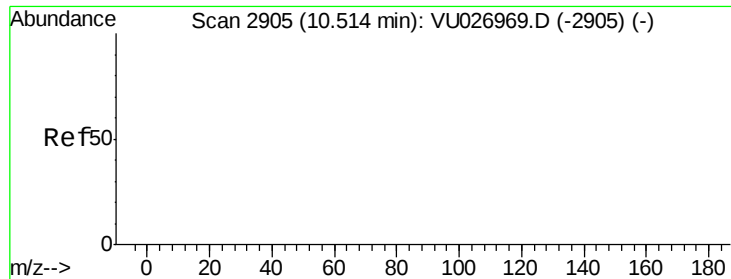
77 1.2 20.9 62.8#



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: 67.426 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027113.D

Acq: 24 Sep 2018 16:54

Instrument :

MSVOA_U

ClientSampleId :

FT-PZ456I-20180917

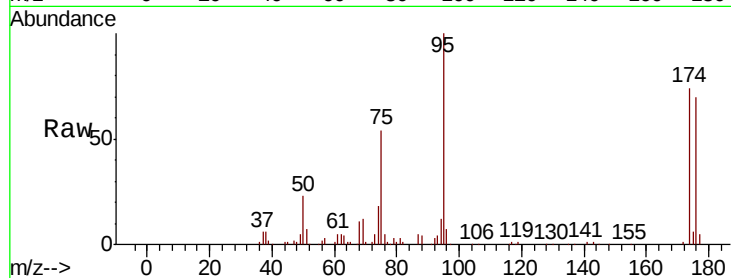
Tgt Ion: 75 Resp: 44502

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

