

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011419\
 Data File : VU029158.D
 Acq On : 14 Jan 2019 12:11
 Operator : JC/SP
 Sample : K1136-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 14 22:45:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 12 01:33:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	113004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	198832	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	180764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72316	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	76009	54.41	ug/l	0.00
Spiked Amount			Recovery	=	108.82%	
35) Dibromofluoromethane	4.88	113	67603	52.45	ug/l	0.00
Spiked Amount			Recovery	=	104.90%	
50) Toluene-d8	7.56	98	248445	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
62) 4-Bromofluorobenzene	10.30	95	78487	42.92	ug/l	0.00
Spiked Amount			Recovery	=	85.84%	

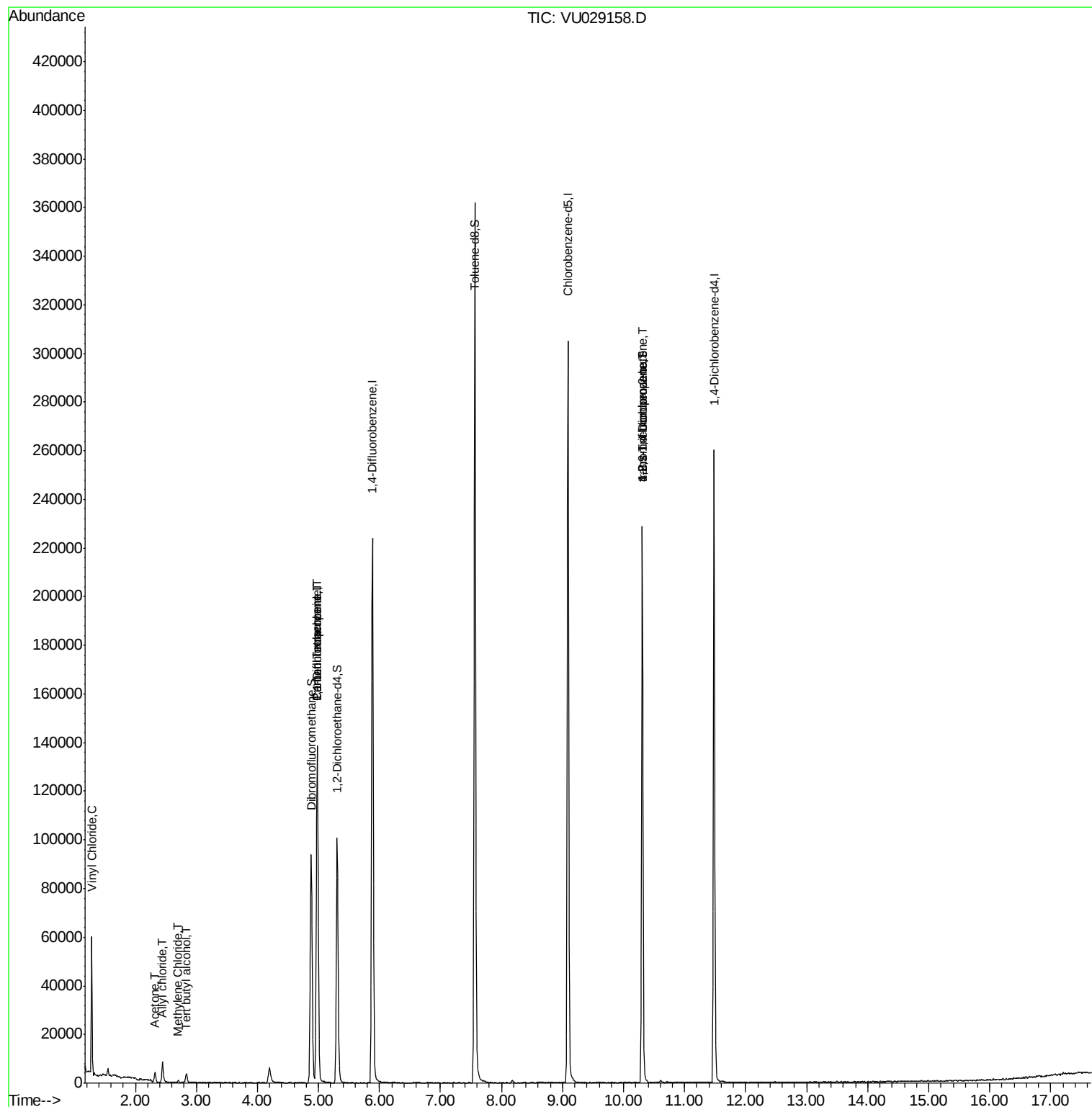
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1043	Below Cal		91
4) Vinyl Chloride	1.28	62	394	0.239 ug/l #		42
5) Bromomethane	1.62	94	110	Below Cal #		2
11) Tert butyl alcohol	2.84	59	2393	6.739 ug/l #		73
14) Allyl chloride	2.44	41	667	0.310 ug/l #		58
16) Acetone	2.32	43	4478	5.088 ug/l		99
17) Carbon Disulfide	2.48	76	253	Below Cal #		75
20) Methylene Chloride	2.70	84	449	0.301 ug/l #		80
31) Cyclohexane	4.98	56	1859	Below Cal #		1
36) 1,1-Dichloropropene	4.98	75	8144	4.098 ug/l #		46
38) Carbon Tetrachloride	4.98	117	10036	6.055 ug/l #		17
76) 1,2,3-Trichloropropane	10.30	75	37054	20.913 ug/l #		35
81) trans-1,4-Dichloro-2-buten	10.30	75	37054	53.934 ug/l #		100

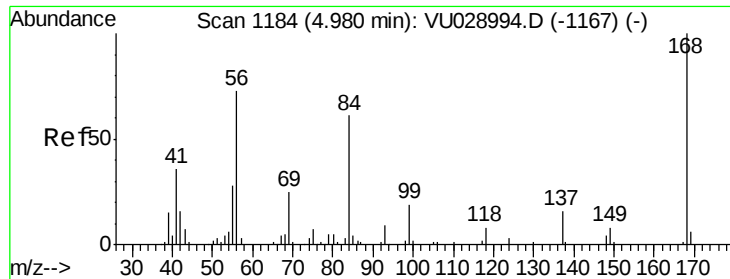
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

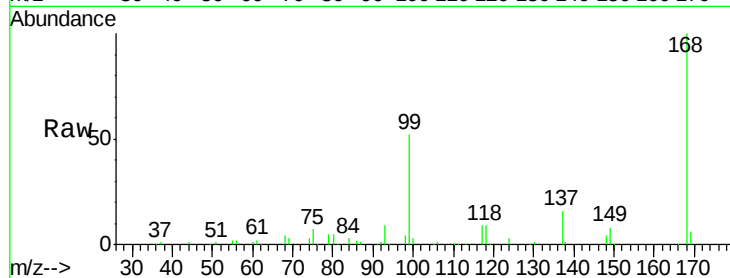
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 113004

Ion Ratio Lower Upper

168 100

99 52.3 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)

Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

4.98

50000

40000

30000

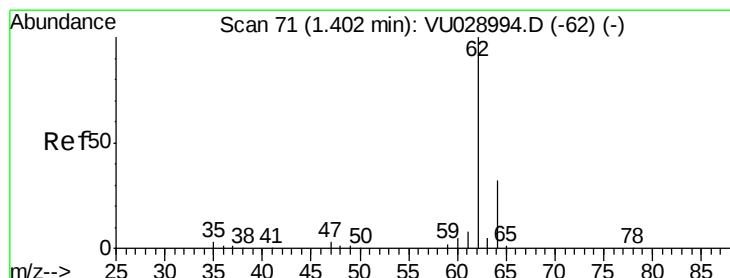
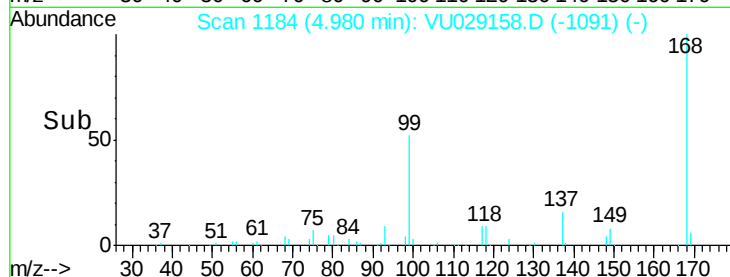
20000

10000

0

4.90 5.00 5.10

Time-->



#4

Vinyl Chloride

Concen: 0.239 ug/l

RT: 1.28 min Scan# 34

Delta R.T. -0.12 min

Lab File: VU029158.D

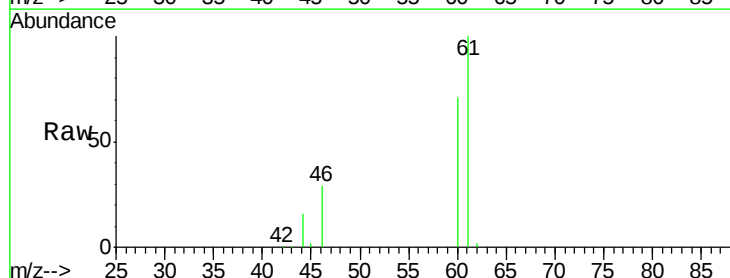
Acq: 14 Jan 2019 12:11

Tgt Ion: 62 Resp: 394

Ion Ratio Lower Upper

62 100

64 0.0 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VU028994.D (-62) (-)

Ion 63.90 (63.60 to 64.60): VU028994.D (-62) (-)

1.28

500

400

300

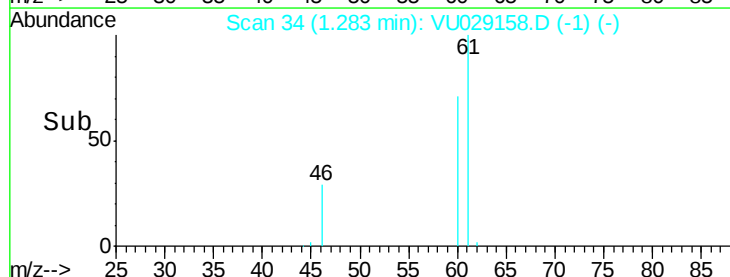
200

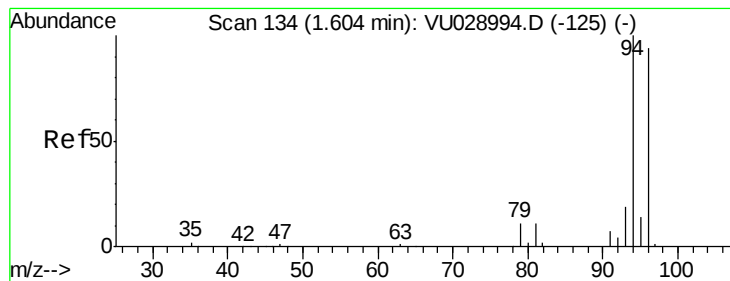
100

0

1.26 1.28 1.30

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 140

Delta R.T. 0.02 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

Instrument :

MSVOA_U

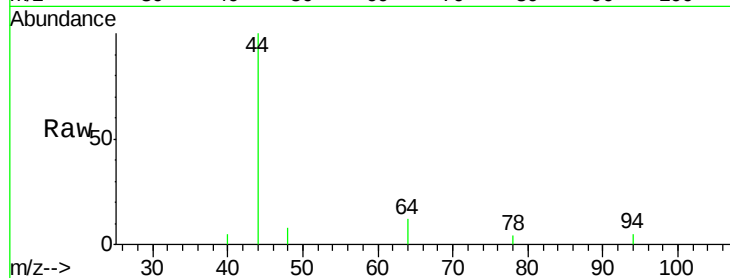
ClientSampleId :

Tot Ion: 94 Resp: 110

Ion Ratio Lower Upper

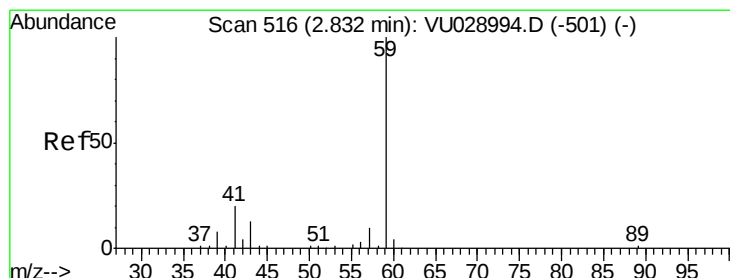
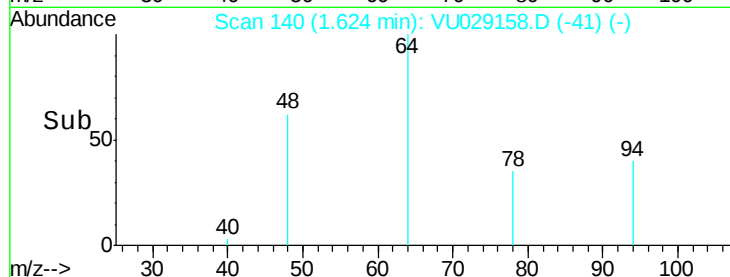
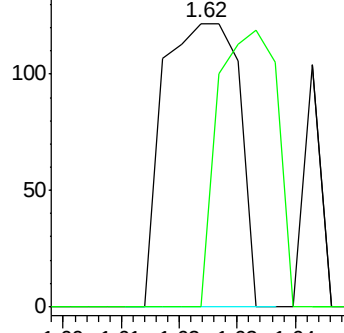
94 100

96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 6.739 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU029158.D

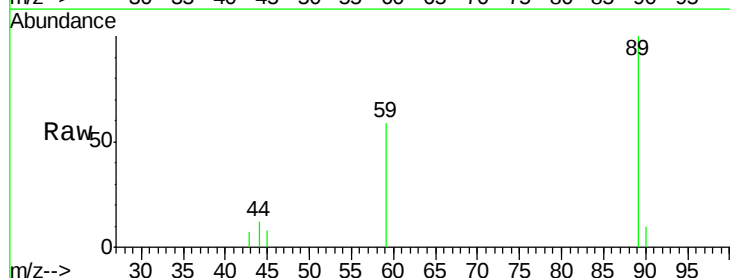
Acq: 14 Jan 2019 12:11

Tgt Ion: 59 Resp: 2393

Ion Ratio Lower Upper

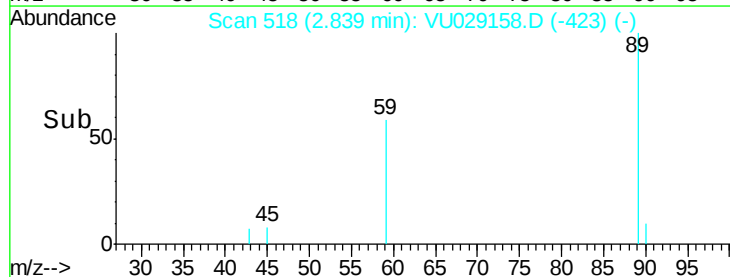
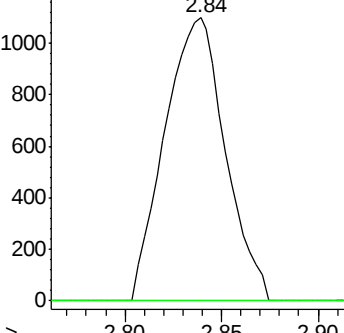
59 100

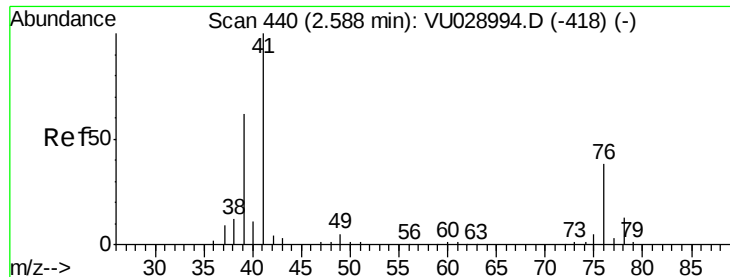
57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#14

Allvl chloride

Concen: 0.310 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.14 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :

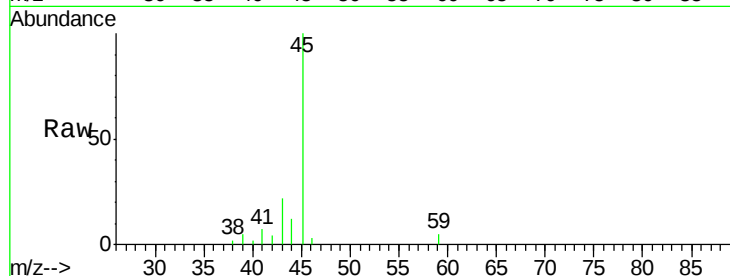
Tot Ion: 41 Resp: 667

Ion Ratio Lower Upper

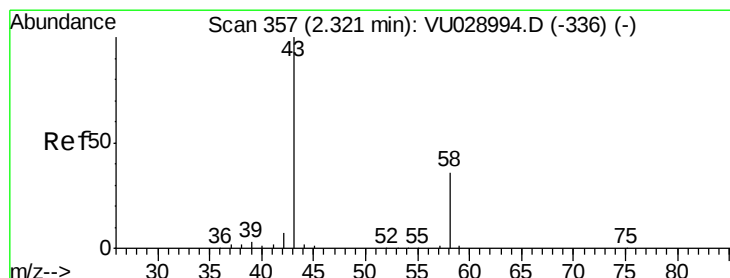
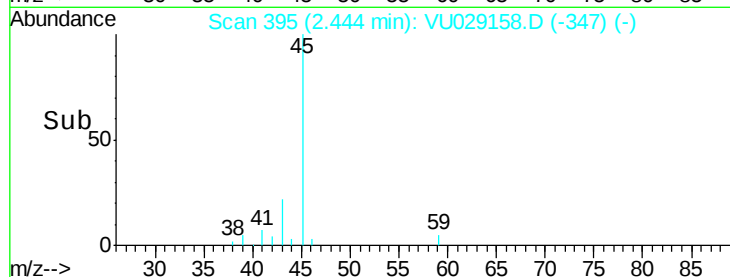
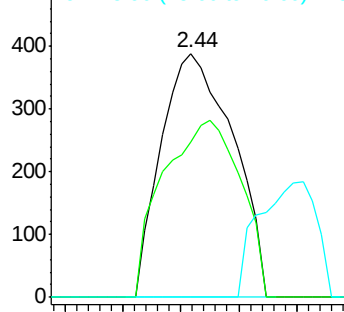
41 100

39 78.4 45.0 67.6#

76 0.0 28.1 42.1#



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0
Ion 75.90 (75.60 to 76.60): VU0



#16

Acetone

Concen: 5.088 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029158.D

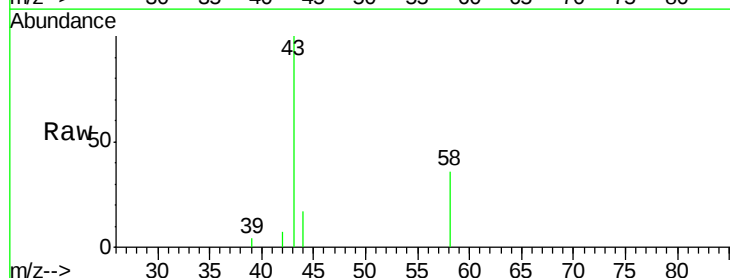
Acq: 14 Jan 2019 12:11

Tgt Ion: 43 Resp: 4478

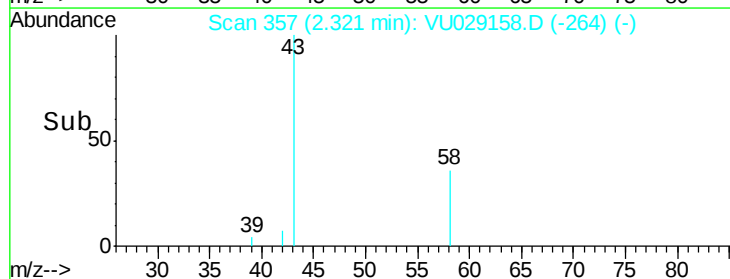
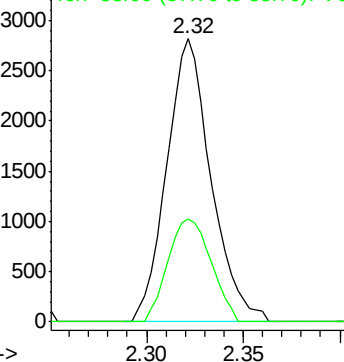
Ion Ratio Lower Upper

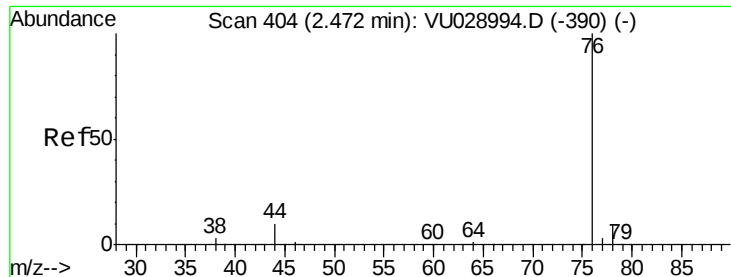
43 100

58 36.4 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# 407

Delta R.T. 0.01 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

Instrument :

MSVOA_U

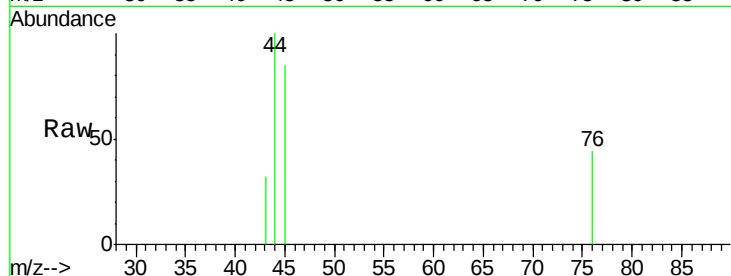
ClientSampleId :

Tot Ion: 76 Resp: 253

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

2.48

200

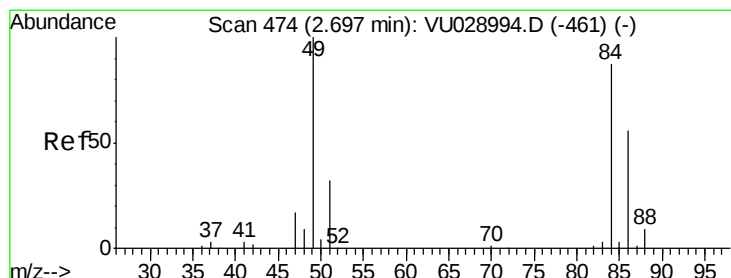
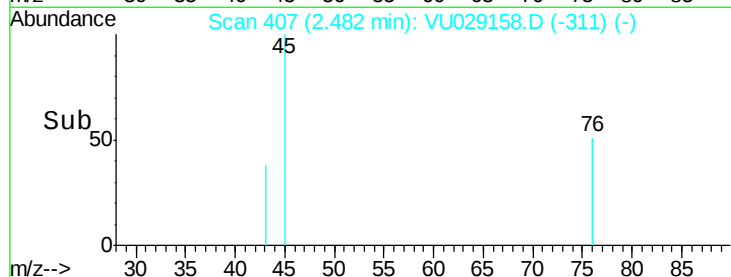
150

100

50

0

Time--> 2.44 2.46 2.48 2.50



#20

Methylene Chloride

Concen: 0.301 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.00 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

Tgt Ion: 84 Resp: 449

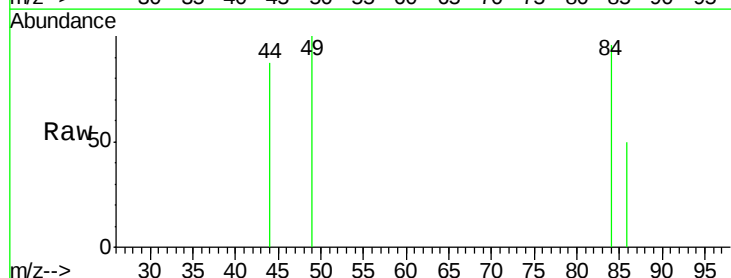
Ion Ratio Lower Upper

84 100

49 104.5 91.9 137.9

51 0.0 29.2 43.8#

86 52.5 51.8 77.6



Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0

500

400

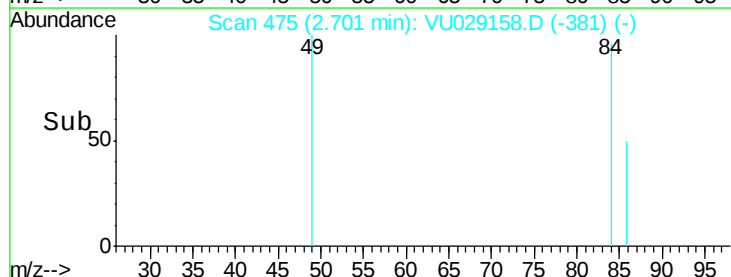
300

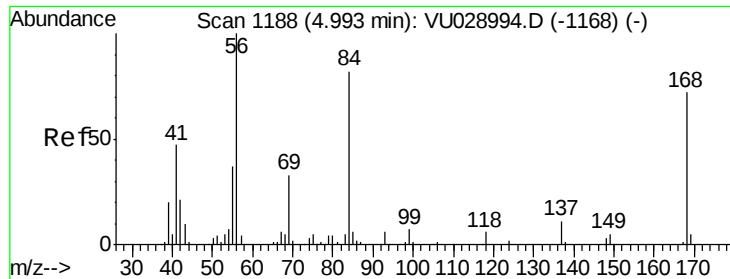
200

100

0

Time--> 2.68 2.70 2.72

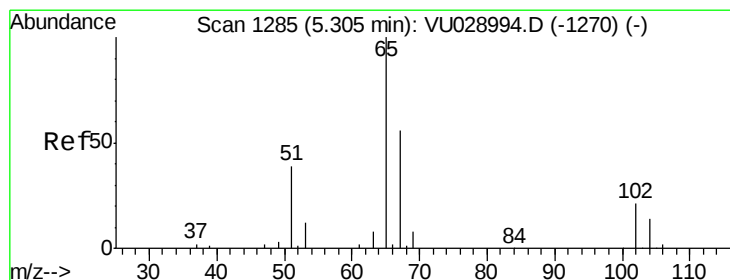
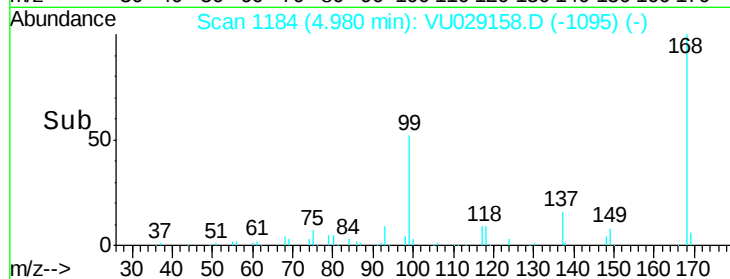
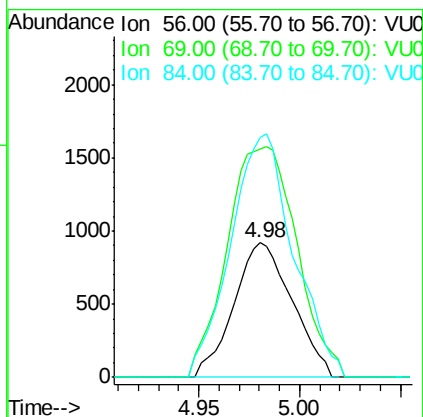
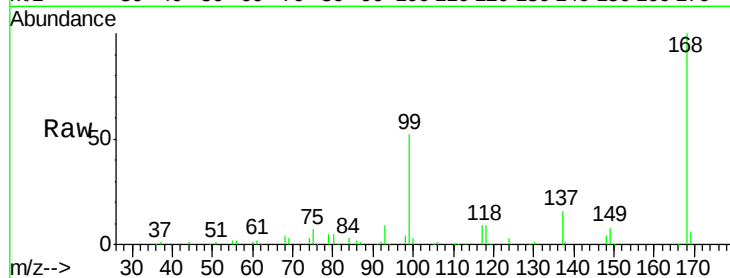




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VU029158.D
Acq: 14 Jan 2019 12:11

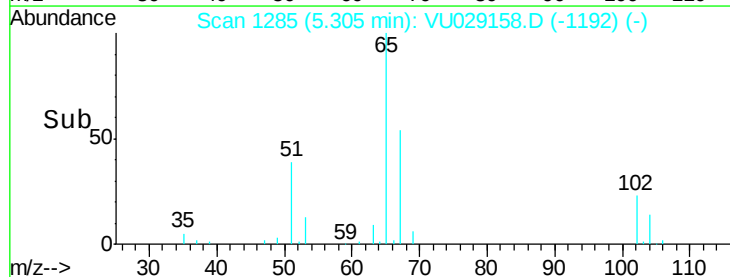
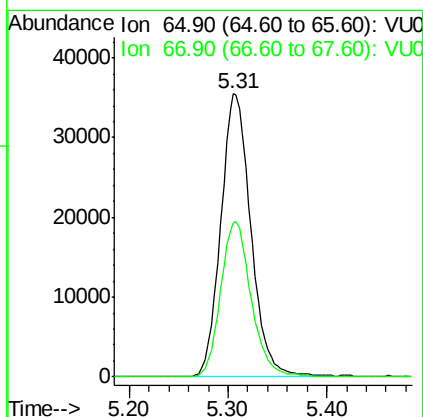
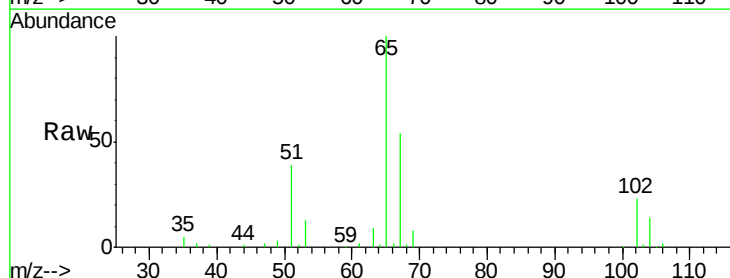
Instrument :
MSVOA_U
ClientSampleId :

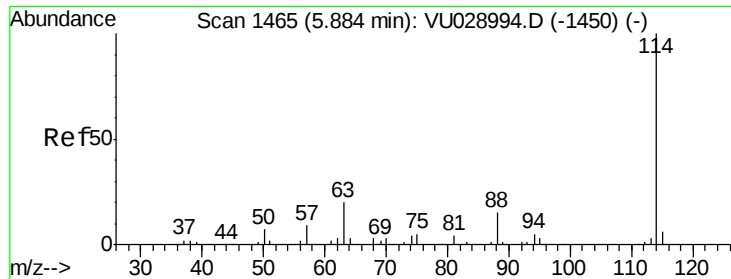
Tot Ion: 56 Resp: 1859
Ion Ratio Lower Upper
56 100
69 169.8 26.7 40.1#
84 178.5 65.7 98.5#



#33
1,2-Dichloroethane-d4
Concen: 54.411 ug/l
RT: 5.31 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VU029158.D
Acq: 14 Jan 2019 12:11

Tgt Ion: 65 Resp: 76009
Ion Ratio Lower Upper
65 100
67 55.5 0.0 111.0

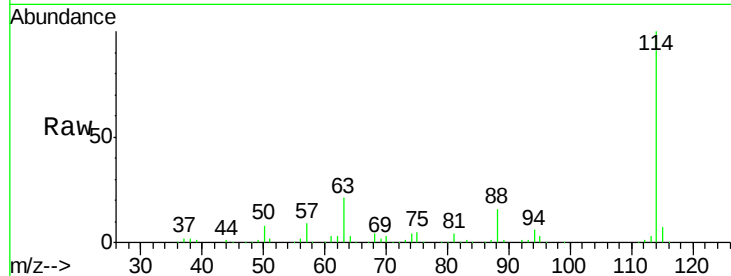




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029158.D
 Acq: 14 Jan 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :

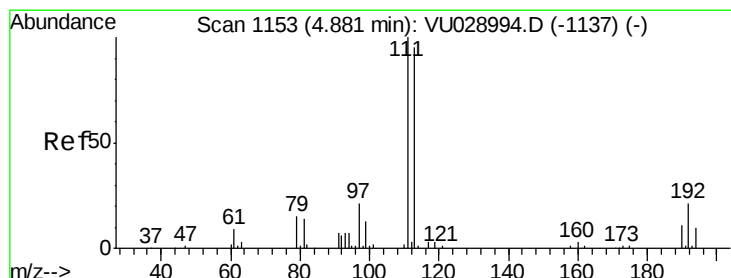
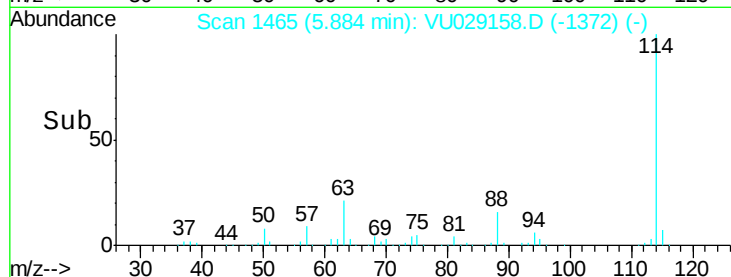
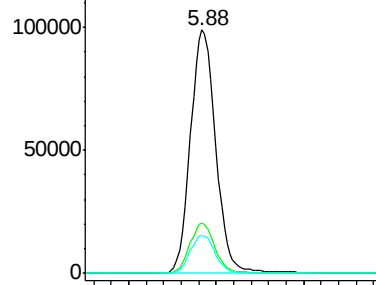
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	40.2
88	15.6	0.0	30.4



Abundance Ion 113.90 (113.60 to 114.60): V

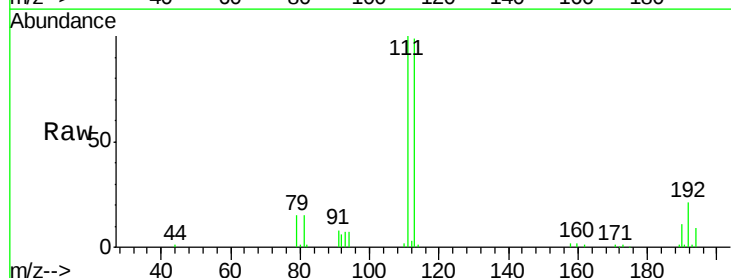
Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35
 Dibromofluoromethane
 Concen: 52.451 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029158.D
 Acq: 14 Jan 2019 12:11

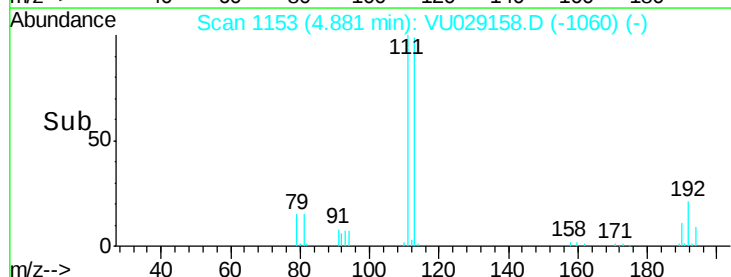
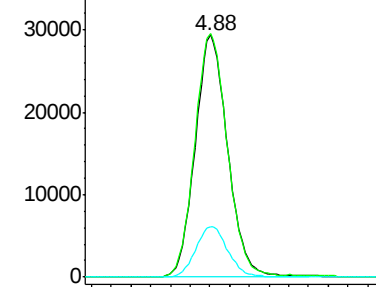
Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.4	122.2
192	20.5	16.8	25.2

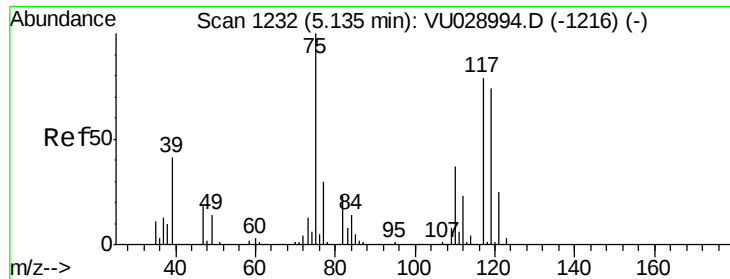


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

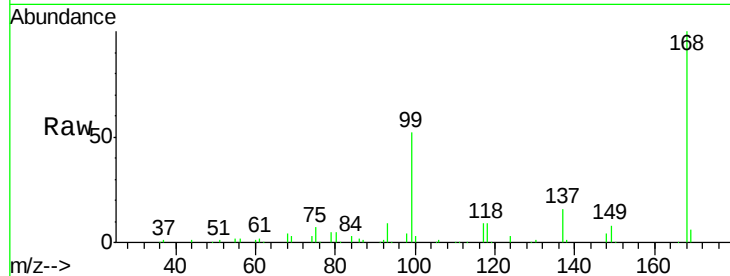




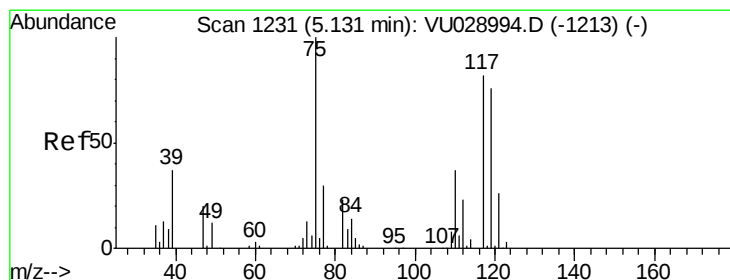
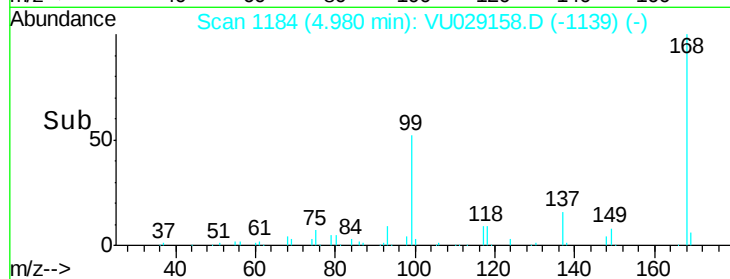
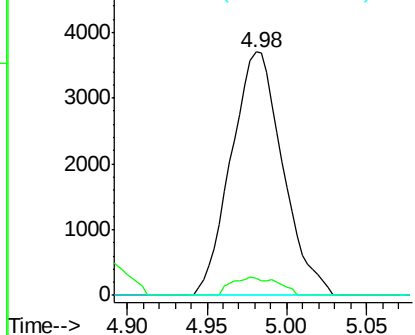
#36
 1,1-Dichloropropene
 Concen: 4.098 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029158.D
 Acq: 14 Jan 2019 12:11

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 8144
 Ion Ratio Lower Upper
 75 100
 110 6.6 18.4 55.4#
 77 0.0 25.1 37.7#

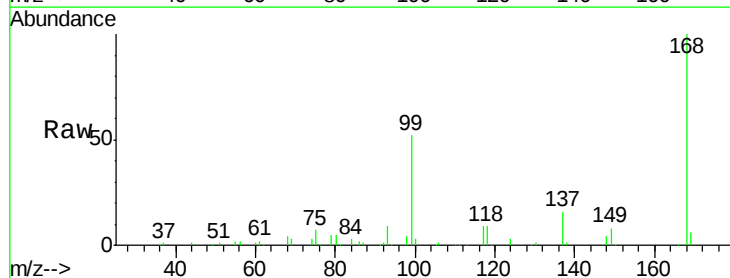


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

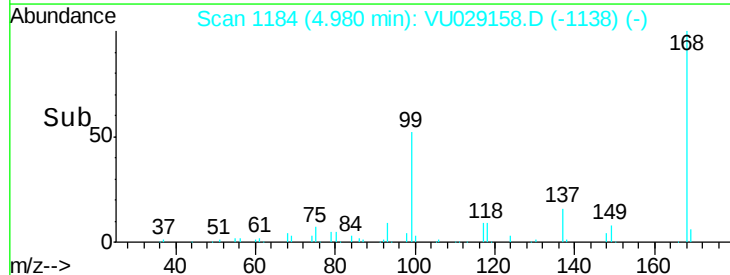
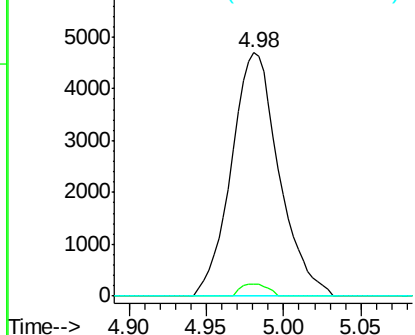


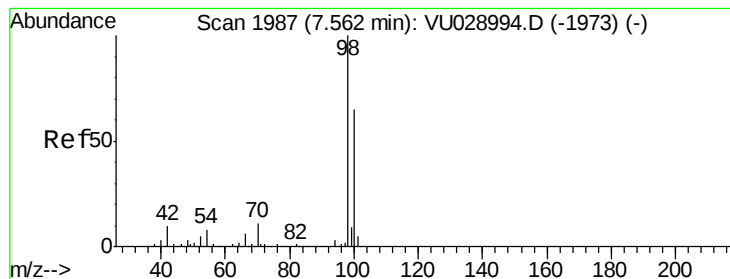
#38
 Carbon Tetrachloride
 Concen: 6.055 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029158.D
 Acq: 14 Jan 2019 12:11

Tgt Ion: 117 Resp: 10036
 Ion Ratio Lower Upper
 117 100
 119 5.1 74.6 111.8#
 121 0.0 25.0 37.6#



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





#50

Toluene-d8

Concen: 48.826 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

Instrument :

MSVOA_U

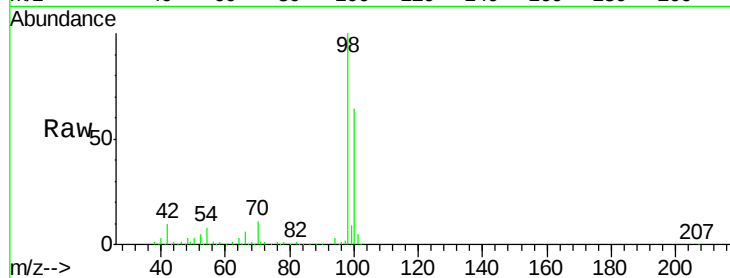
ClientSampleId :

Tot Ion: 98 Resp: 248445

Ion Ratio Lower Upper

98 100

100 64.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU028994.D (-1973) (-)

Ion 100.00 (99.70 to 100.70): VU028994.D (-1973) (-)

7.56

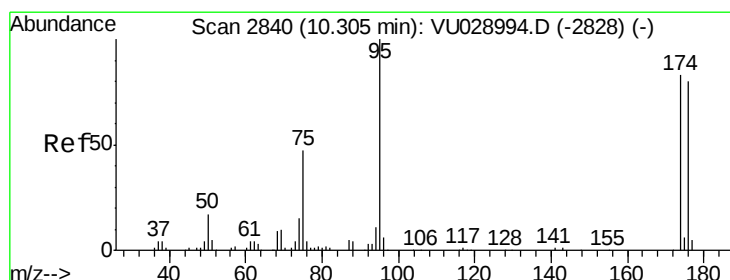
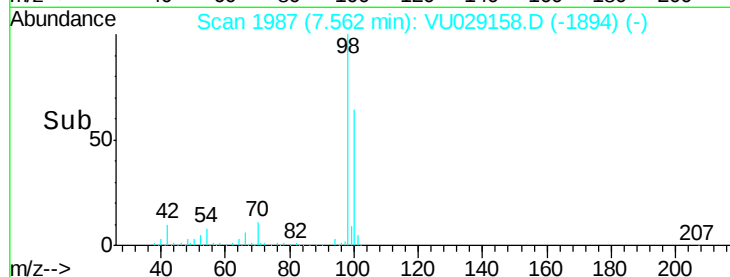
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.920 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

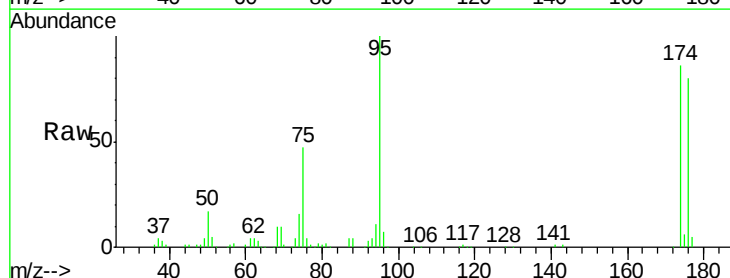
Tgt Ion: 95 Resp: 78487

Ion Ratio Lower Upper

95 100

174 84.6 0.0 170.6

176 81.7 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU028994.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028994.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028994.D (-2828) (-)

10.30

60000

50000

40000

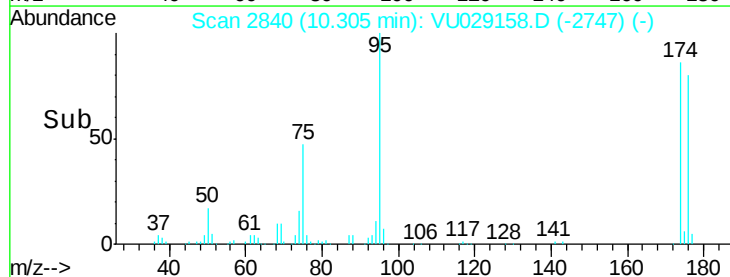
30000

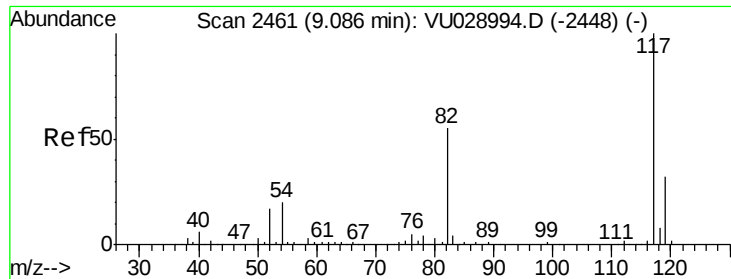
20000

10000

0

Time-->

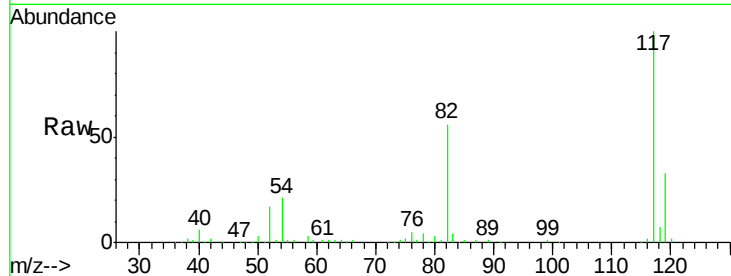




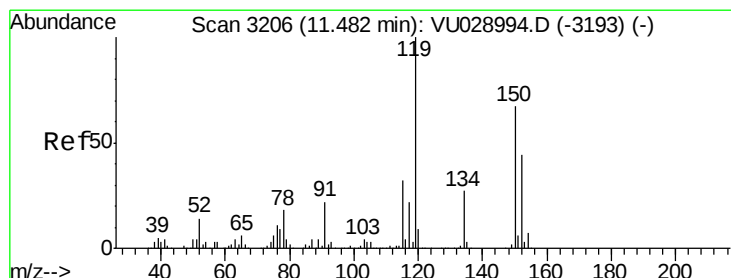
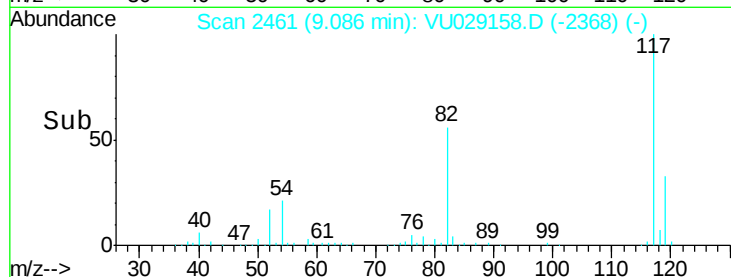
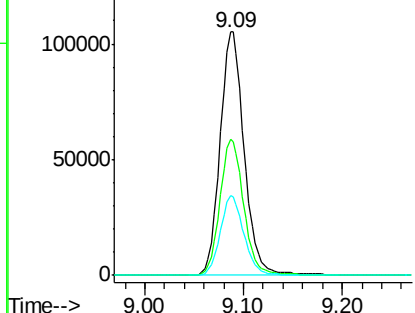
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029158.D
Acq: 14 Jan 2019 12:11

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 180764
Ion Ratio Lower Upper
117 100
82 56.1 43.9 65.9
119 32.8 26.0 39.0

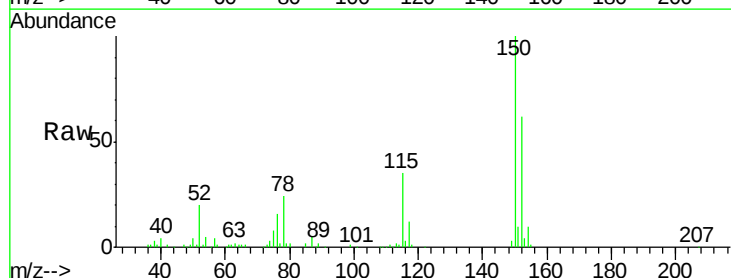


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

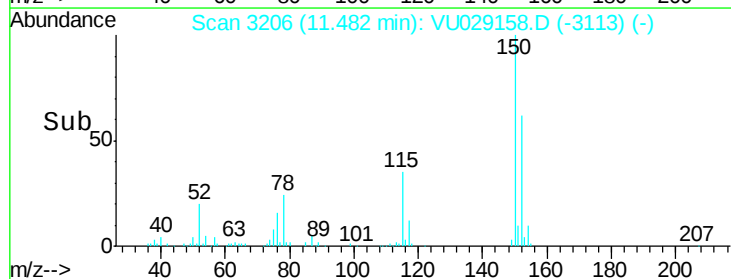
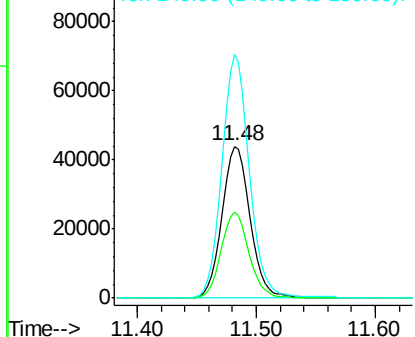


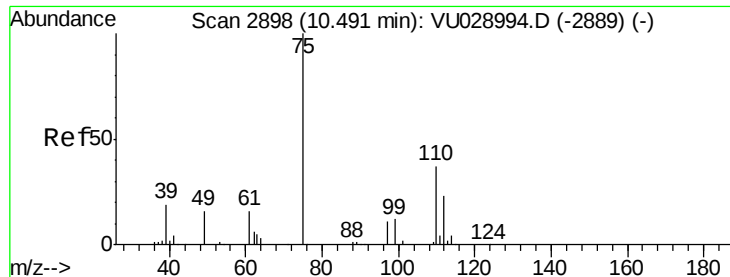
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029158.D
Acq: 14 Jan 2019 12:11

Tgt Ion:152 Resp: 72316
Ion Ratio Lower Upper
152 100
115 56.1 40.1 120.3
150 156.5 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: 20.913 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

Instrument :

MSVOA_U

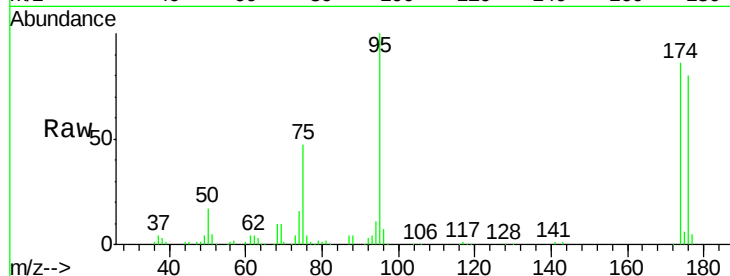
ClientSampled :

Tot Ion: 75 Resp: 37054

Ion Ratio Lower Upper

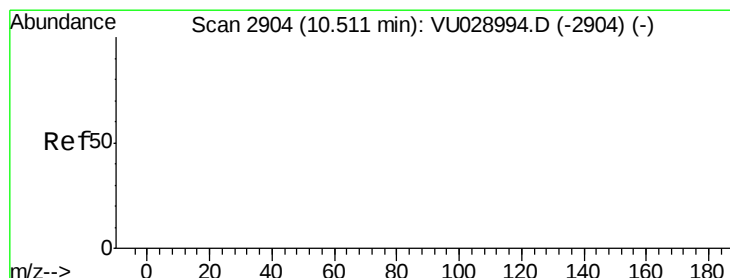
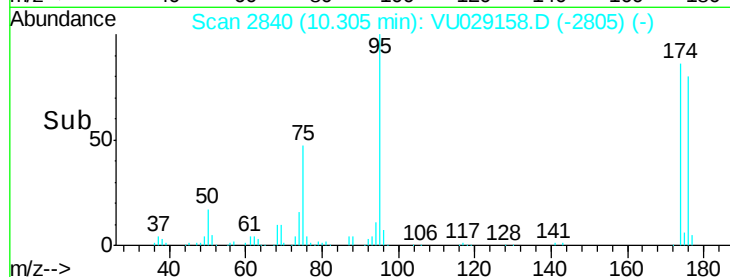
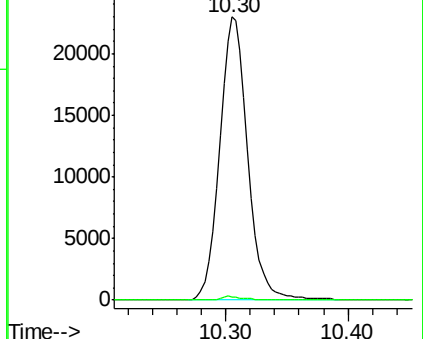
75 100

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: 53.934 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029158.D

Acq: 14 Jan 2019 12:11

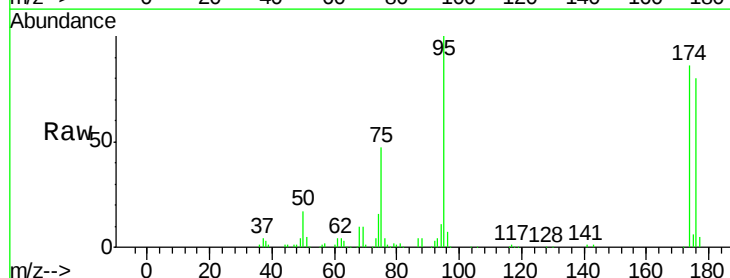
Tgt Ion: 75 Resp: 37054

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

