

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029087.D
 Acq On : 09 Jan 2019 14:12
 Operator : MD/SY
 Sample : PB116248ZHE#02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:04:59 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	110854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	192700	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	184688	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72858	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	75814	55.32	ug/l	0.00
Spiked Amount			Recovery	=	110.64%	
35) Dibromofluoromethane	4.88	113	66169	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
50) Toluene-d8	7.56	98	248158	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
62) 4-Bromofluorobenzene	10.30	95	78830	44.48	ug/l	0.00
Spiked Amount			Recovery	=	88.96%	

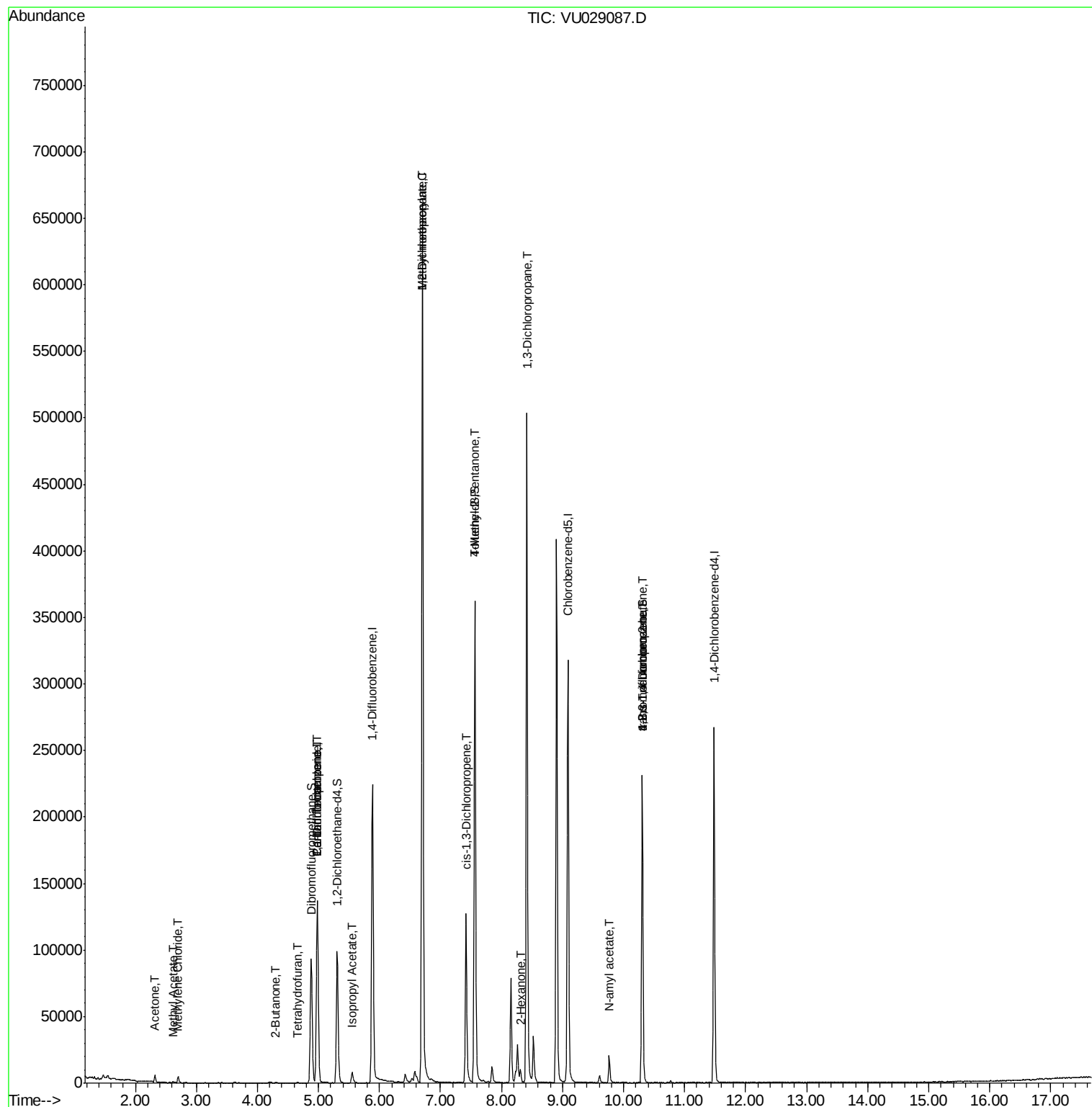
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	898	Below Cal		98
5) Bromomethane	1.63	94	42	Below Cal		99
16) Acetone	2.32	43	5324	6.167	ug/l	91
17) Carbon Disulfide	2.48	76	200	Below Cal	#	75
18) Methyl Acetate	2.62	43	1404	0.699	ug/l #	78
20) Methylene Chloride	2.70	84	2329	1.589	ug/l	94
25) 2-Butanone	4.29	43	276	0.237	ug/l #	47
29) Tetrahydrofuran	4.66	42	175	0.247	ug/l #	30
31) Cyclohexane	4.98	56	1868	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8003	4.155	ug/l #	47
38) Carbon Tetrachloride	4.98	117	10049	6.255	ug/l #	17
43) Isopropyl Acetate	5.55	43	9074	2.798	ug/l	97
45) 1,2-Dichloropropane	6.70	63	765	0.482	ug/l #	43
48) Methyl methacrylate	6.70	41	56501	35.778	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	4959	2.247	ug/l	99
54) cis-1,3-Dichloropropene	7.42	75	24180	9.975	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	5123	2.043	ug/l #	42
59) 2-Hexanone	8.31	43	7538	4.351	ug/l #	21
74) N-amyl acetate	9.76	43	6828	2.938	ug/l #	47
76) 1,2,3-Trichloropropane	10.30	75	38055	21.318	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	38055	54.979	ug/l #	100

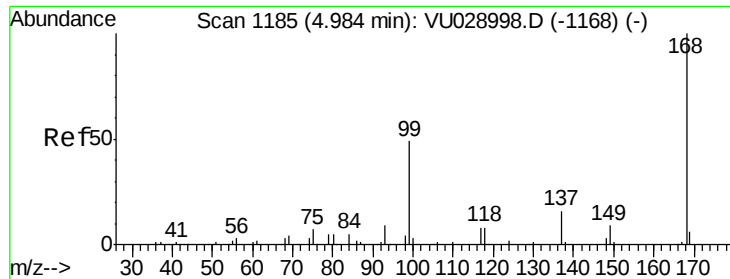
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 04 02:22:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

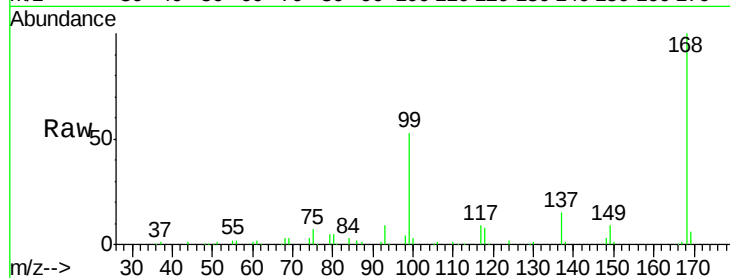
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 110854

Ion Ratio Lower Upper

168 100

99 52.9 42.0 63.0

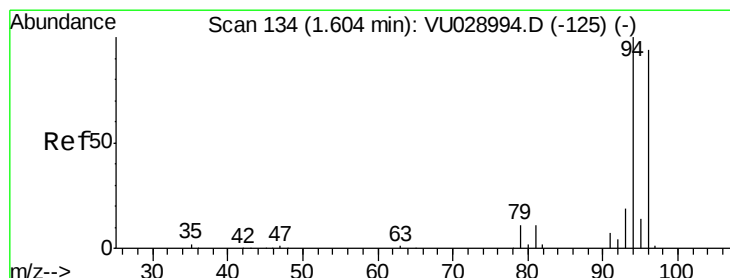
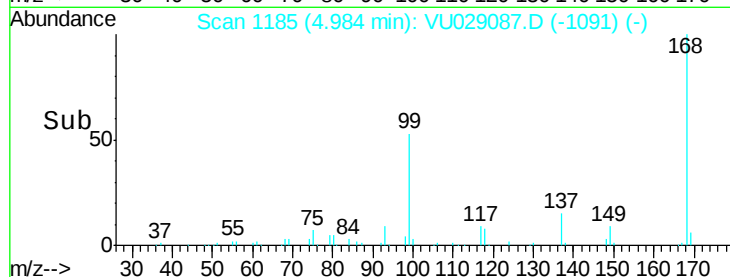


Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

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

4.98

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 141

Delta R.T. 0.02 min

Lab File: VU029087.D

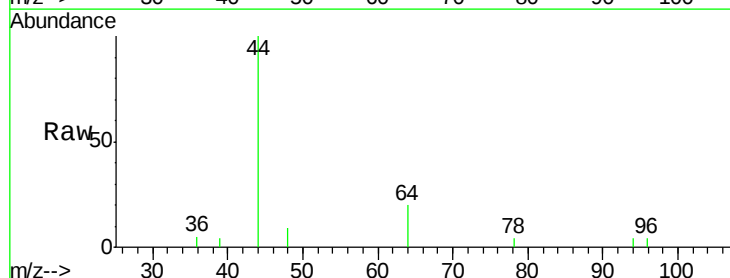
Acq: 09 Jan 2019 14:12

Tgt Ion: 94 Resp: 42

Ion Ratio Lower Upper

94 100

96 93.6 75.5 113.3

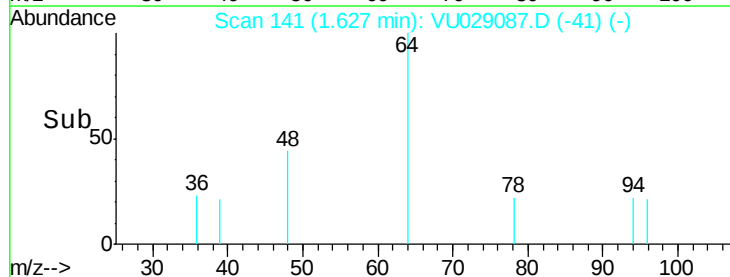


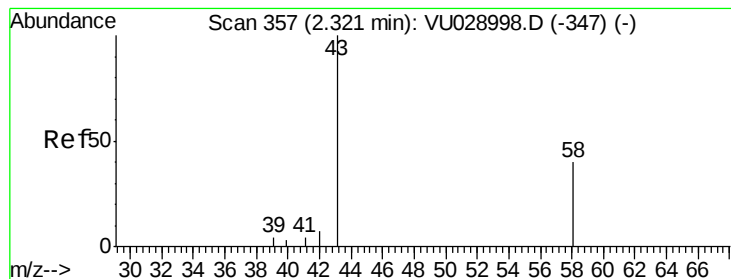
Abundance Ion 93.90 (93.60 to 94.60): VU028994.D (-125) (-)

Ion 95.90 (95.60 to 96.60): VU028994.D (-125) (-)

1.63

Time-->





#16

Acetone

Concen: 6.167 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

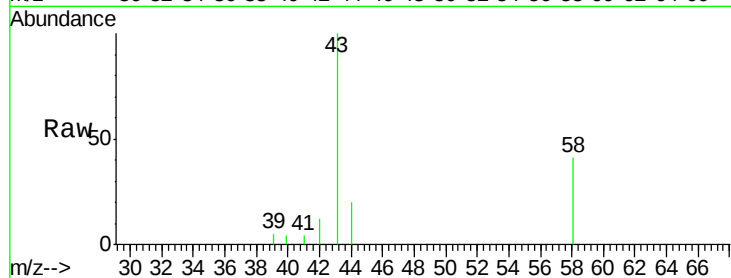
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 5324

Ion Ratio Lower Upper

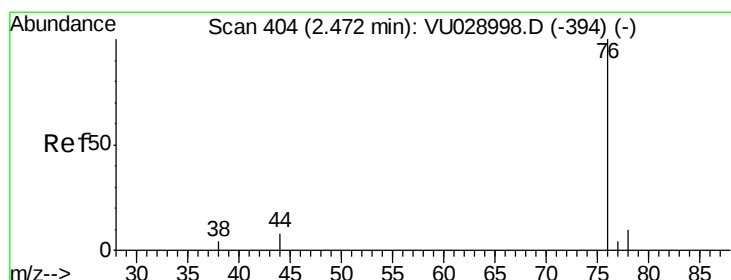
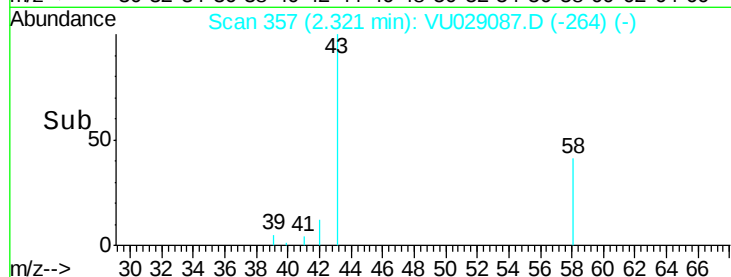
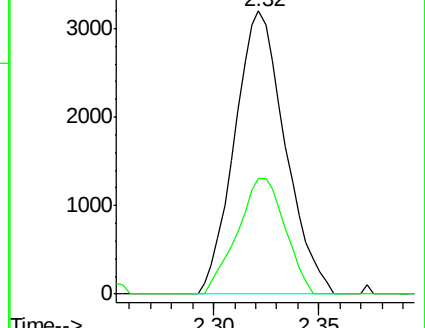
43 100

58 41.0 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VU028998.D (-347) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029087.D

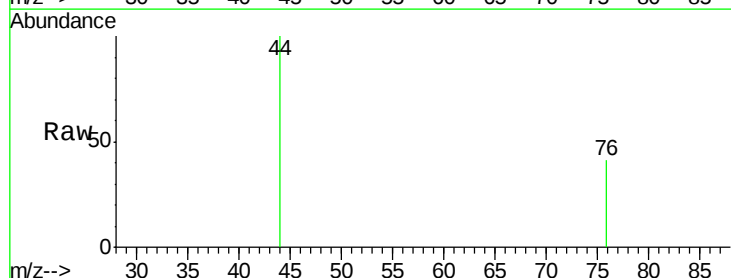
Acq: 09 Jan 2019 14:12

Tgt Ion: 76 Resp: 200

Ion Ratio Lower Upper

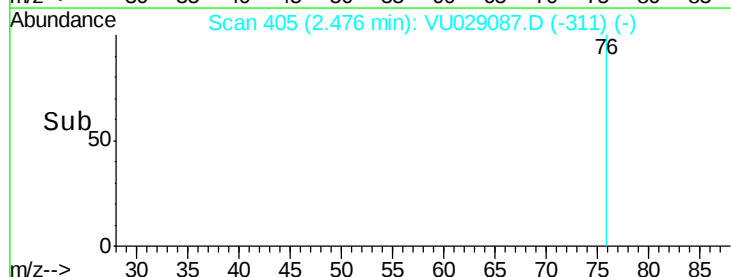
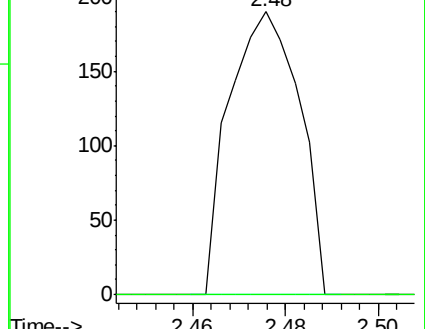
76 100

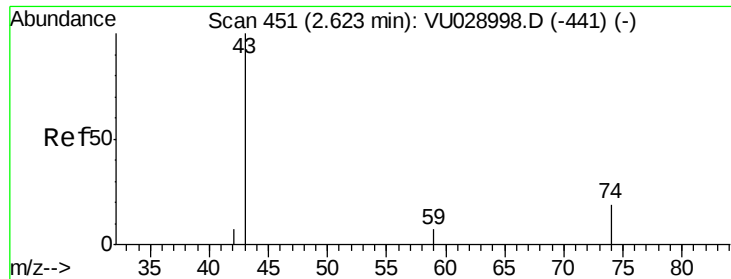
78 0.0 7.2 10.8#



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

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

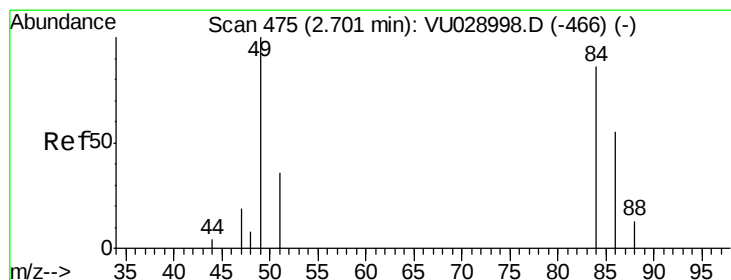
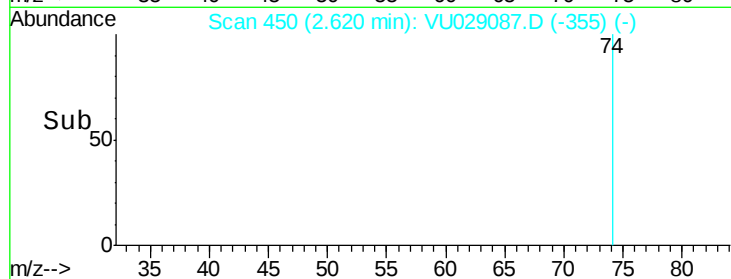
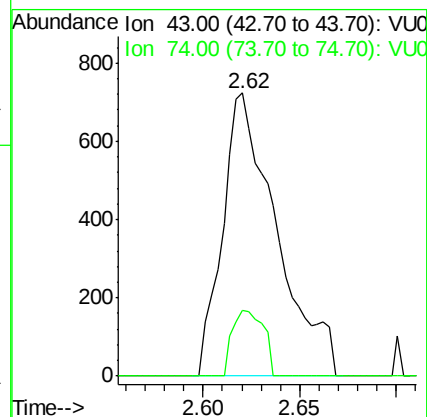
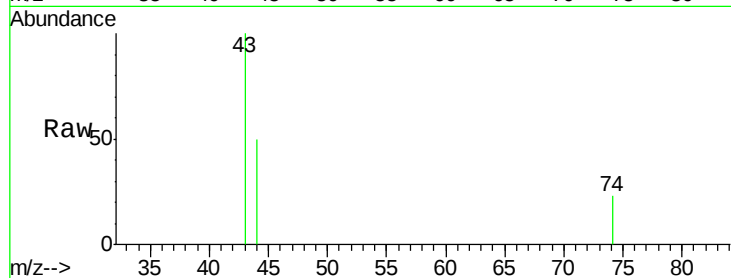




#18
Methyl Acetate
Concen: 0.699 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.01 min
Lab File: VU029087.D
Acq: 09 Jan 2019 14:12

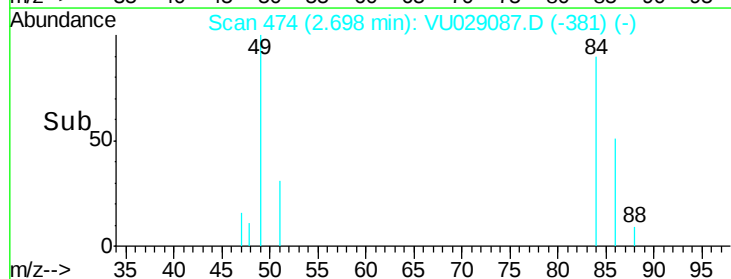
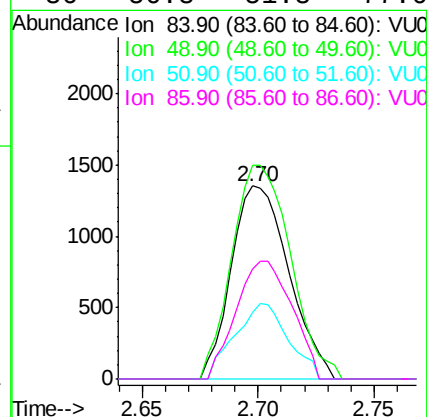
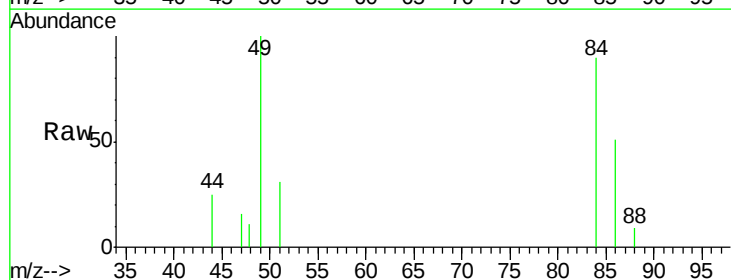
Instrument :
MSVOA_U
ClientSampled :

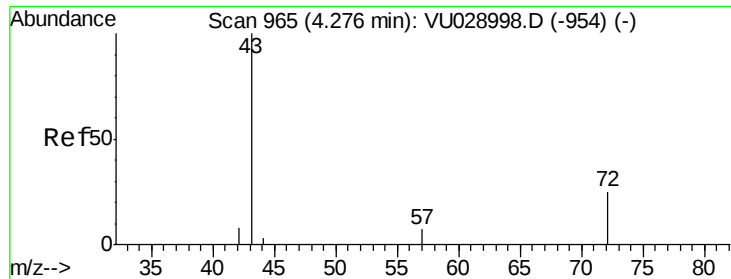
Tot Ion: 43 Resp: 1404
Ion Ratio Lower Upper
43 100
74 13.3 19.5 29.3#



#20
Methylene Chloride
Concen: 1.589 ug/l
RT: 2.70 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU029087.D
Acq: 09 Jan 2019 14:12

Tgt Ion: 84 Resp: 2329
Ion Ratio Lower Upper
84 100
49 110.7 91.9 137.9
51 34.3 29.2 43.8
86 56.8 51.8 77.6





#25

2-Butanone

Concen: 0.237 ug/l

RT: 4.29 min Scan# 970

Delta R.T. 0.03 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

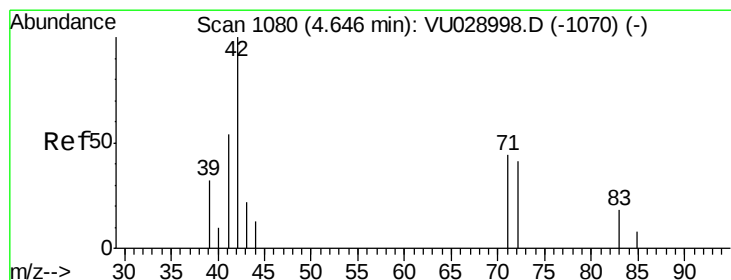
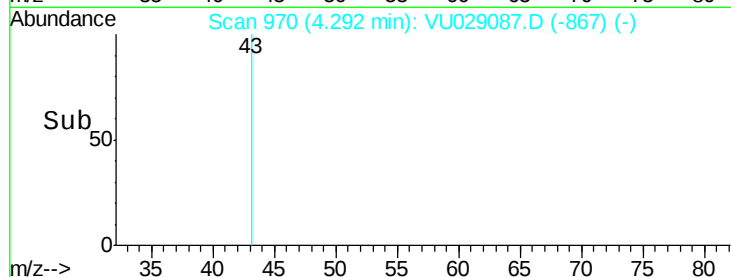
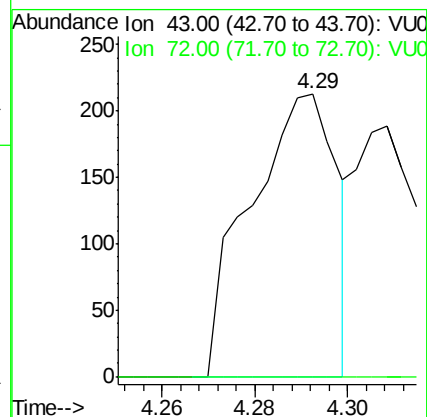
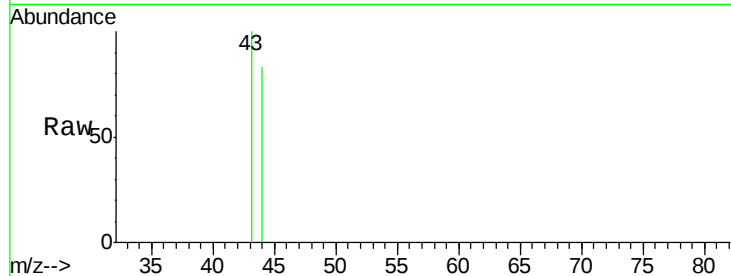
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 276

Ion Ratio Lower Upper

43 100

72 0.0 22.6 33.8#



#29

Tetrahydrofuran

Concen: 0.247 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

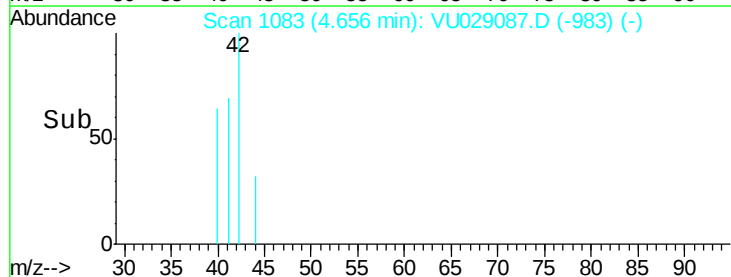
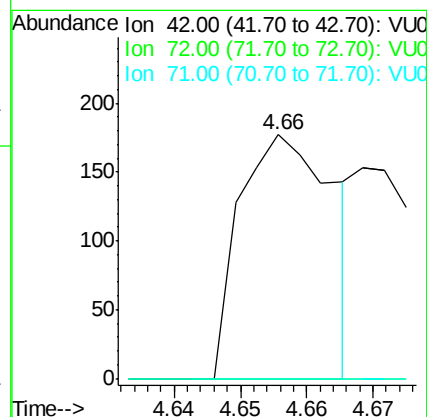
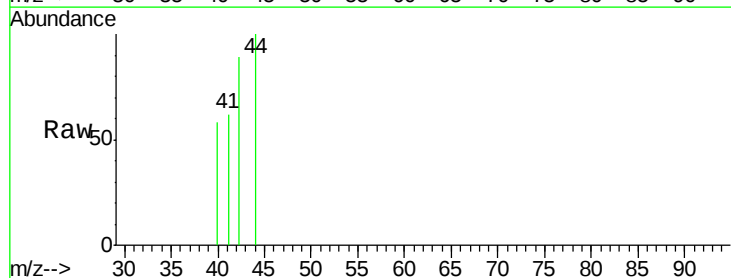
Tgt Ion: 42 Resp: 175

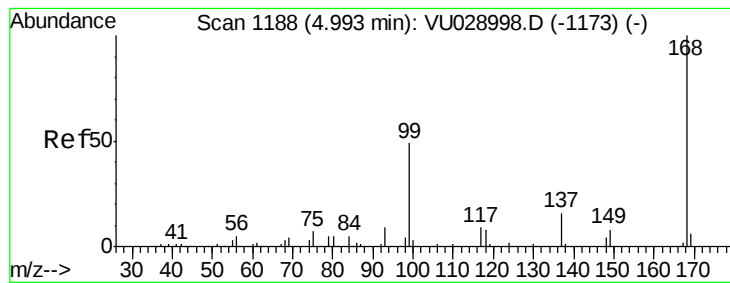
Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

71 0.0 36.1 54.1#





#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.01 min

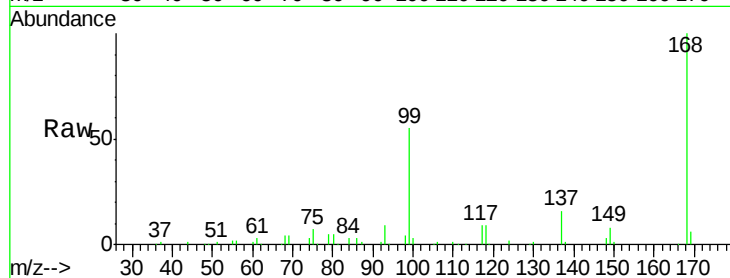
Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

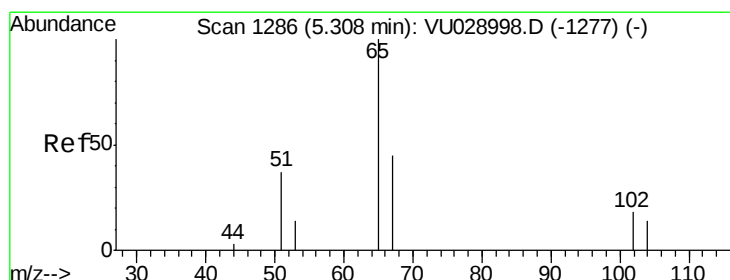
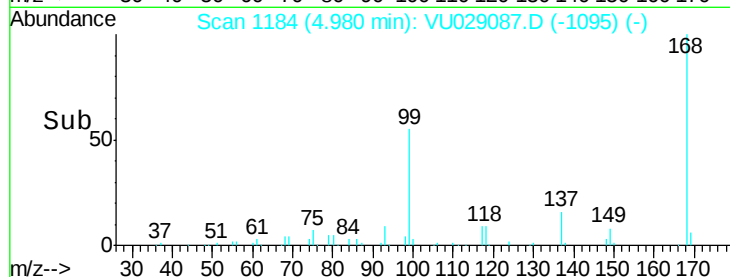
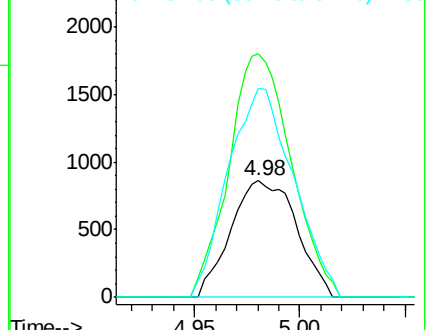
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 1868

Ion	Ratio	Lower	Upper
56	100		
69	208.6	26.7	40.1#
84	178.8	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: 55.324 ug/l

RT: 5.31 min Scan# 1286

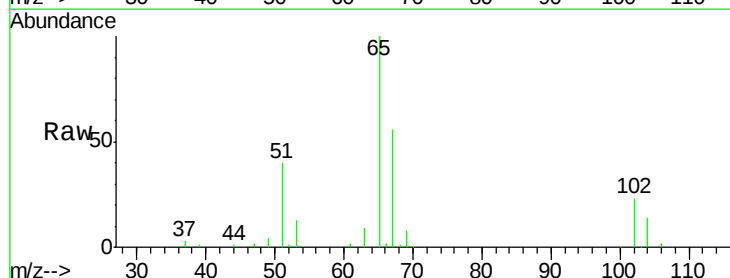
Delta R.T. 0.00 min

Lab File: VU029087.D

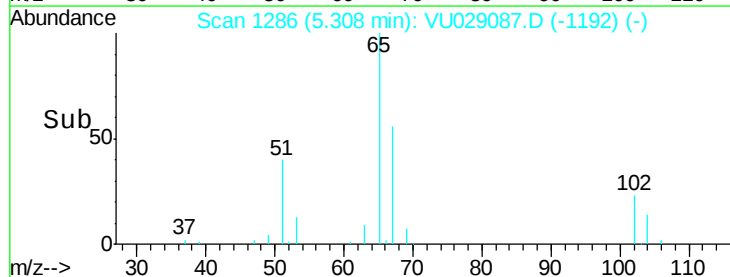
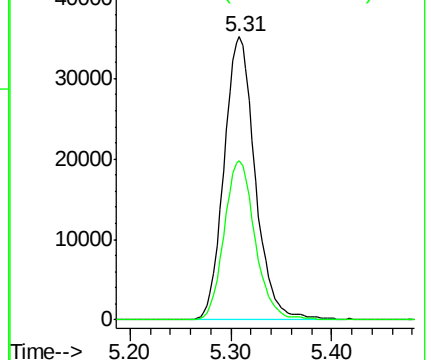
Acq: 09 Jan 2019 14:12

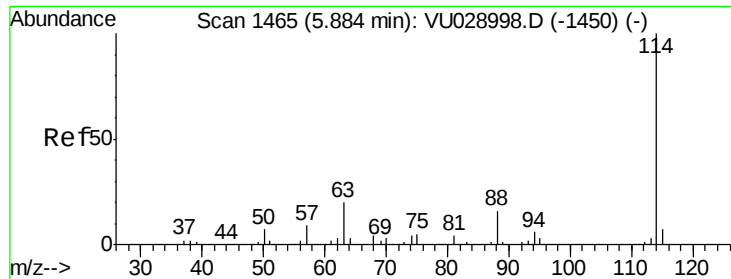
Tgt Ion: 65 Resp: 75814

Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

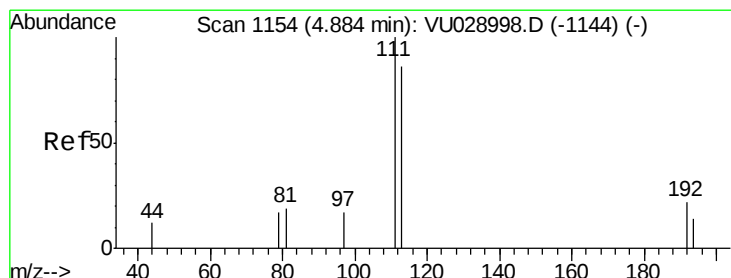
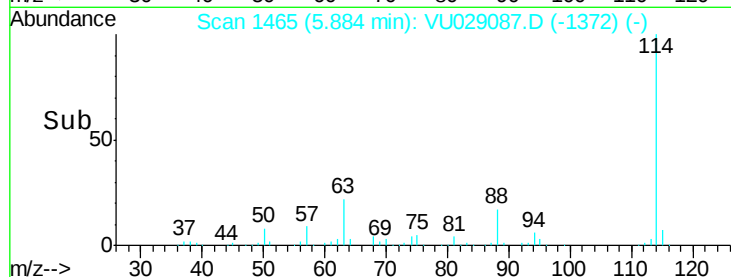
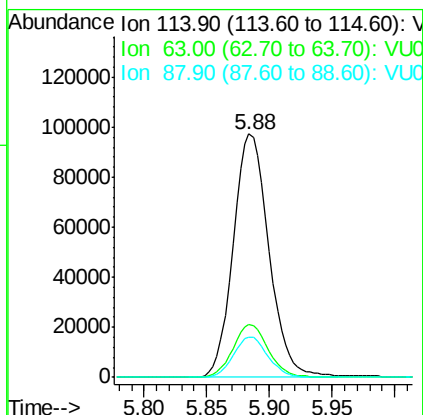
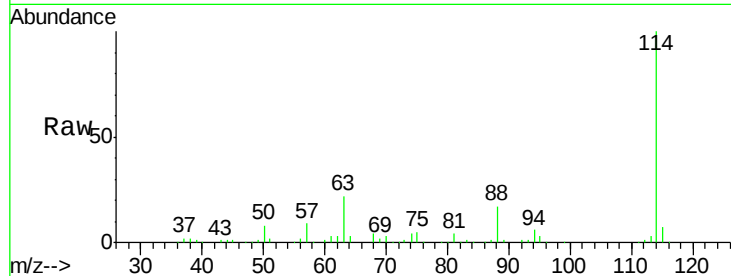




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029087.D
 Acq: 09 Jan 2019 14:12

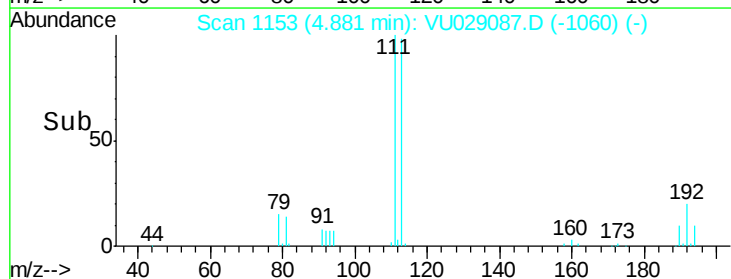
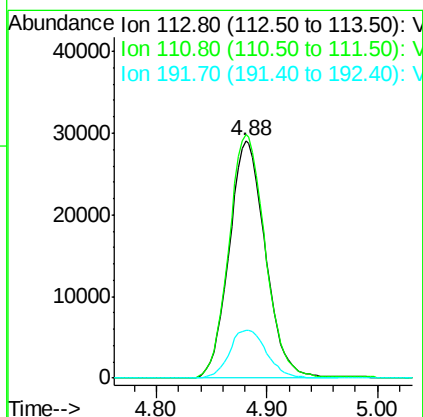
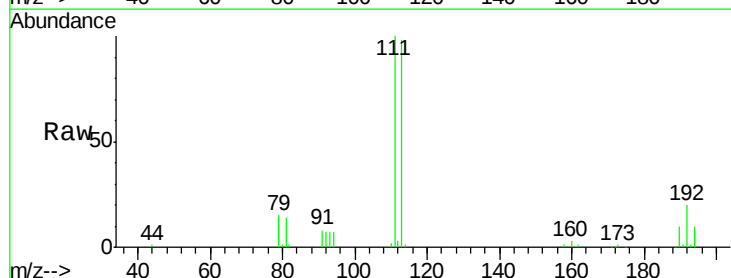
Instrument :
 MSVOA_U
 ClientSampleId :

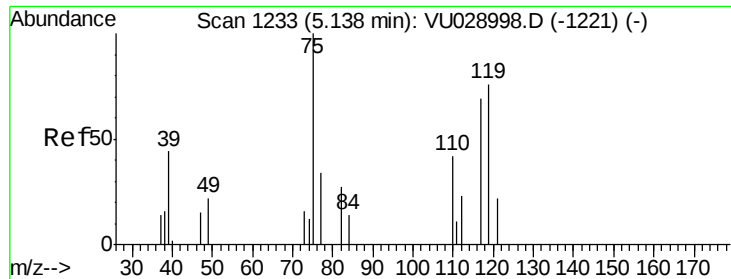
Tot Ion:114 Resp: 192700
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 40.2
 88 16.7 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 52.972 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029087.D
 Acq: 09 Jan 2019 14:12

Tgt Ion:113 Resp: 66169
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.4 122.2
 192 20.7 16.8 25.2

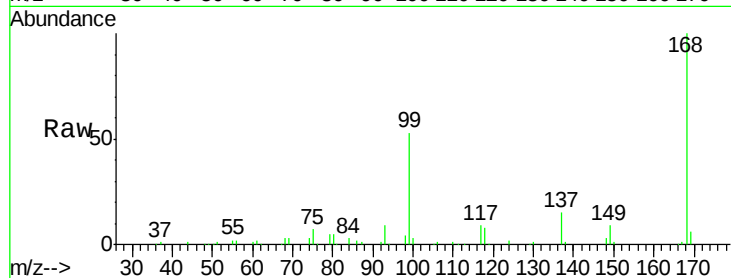




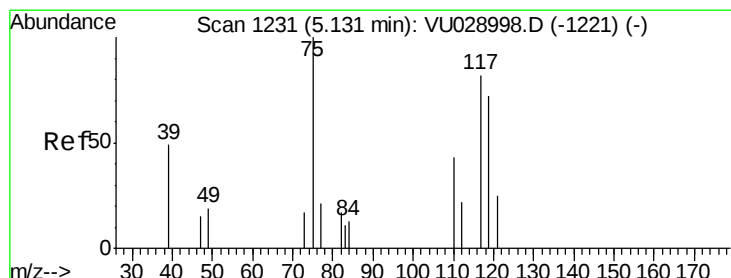
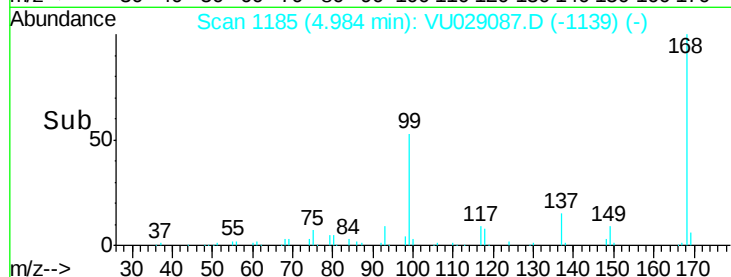
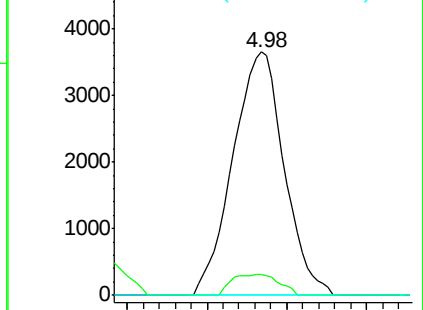
#36
 1,1-Dichloropropene
 Concen: 4.155 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU029087.D
 Acq: 09 Jan 2019 14:12

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 8003
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.4 55.4#
 77 0.0 25.1 37.7#

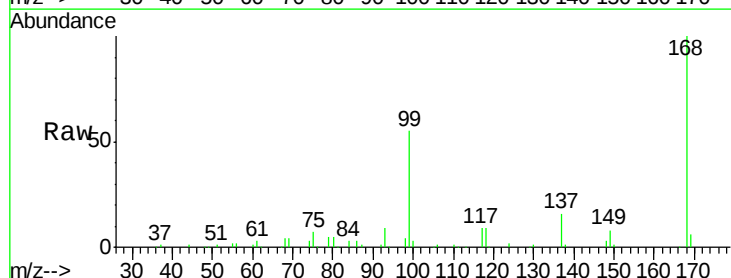


Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-1221) (-)
 Ion 109.90 (109.60 to 110.60): VU028998.D (-1221) (-)
 Ion 76.90 (76.60 to 77.60): VU028998.D (-1221) (-)

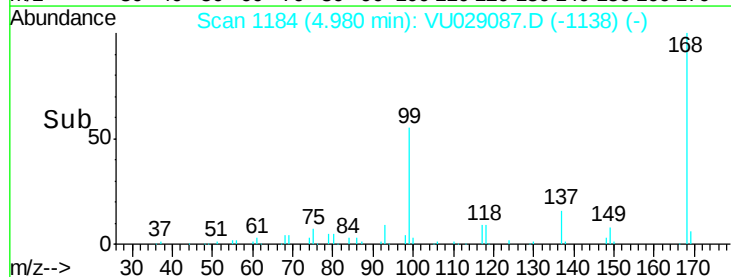
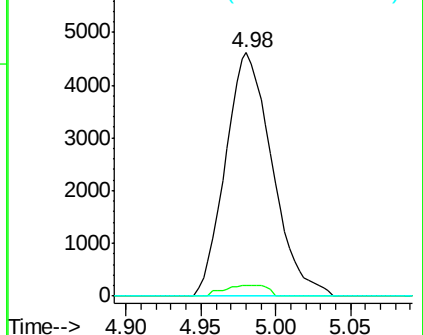


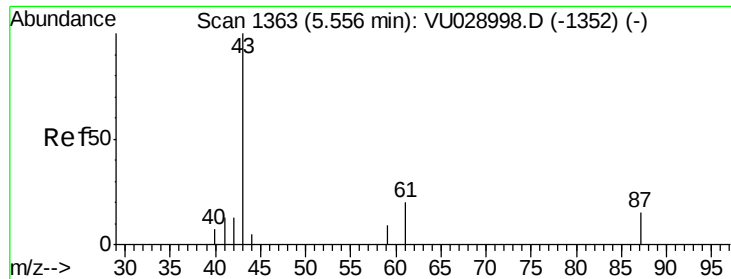
#38
 Carbon Tetrachloride
 Concen: 6.255 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029087.D
 Acq: 09 Jan 2019 14:12

Tgt Ion: 117 Resp: 10049
 Ion Ratio Lower Upper
 117 100
 119 4.4 74.6 111.8#
 121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VU028998.D (-1221) (-)
 Ion 118.80 (118.50 to 119.50): VU028998.D (-1221) (-)
 Ion 120.80 (120.50 to 121.50): VU028998.D (-1221) (-)





#43

Isopropyl Acetate

Concen: 2.798 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

Instrument :

MSVOA_U

ClientSampleId :

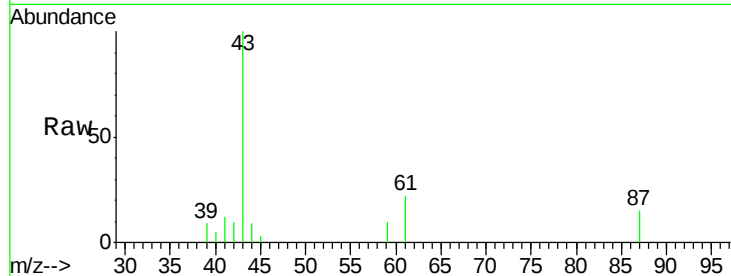
Tot Ion: 43 Resp: 9074

Ion Ratio Lower Upper

43 100

61 20.1 17.8 26.6

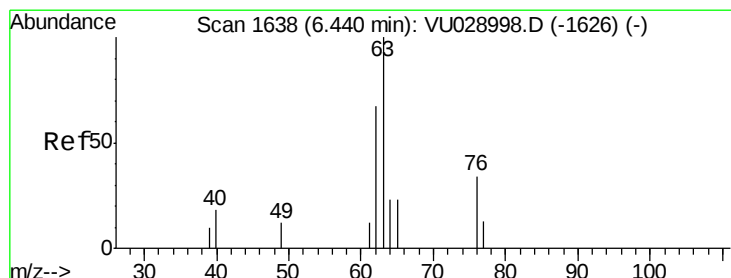
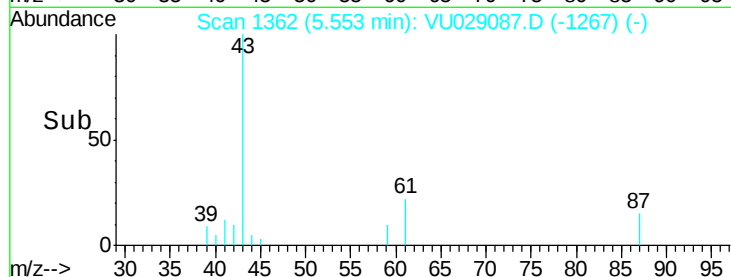
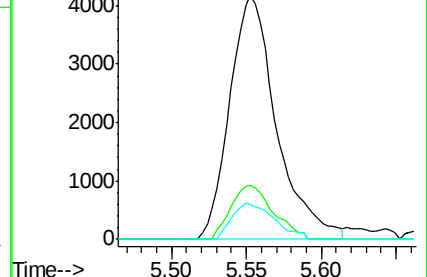
87 13.3 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU029087.D (-1267) (-)

Ion 61.00 (60.70 to 61.70): VU029087.D (-1267) (-)

Ion 87.00 (86.70 to 87.70): VU029087.D (-1267) (-)



#45

1,2-Dichloropropane

Concen: 0.482 ug/l

RT: 6.70 min Scan# 1719

Delta R.T. 0.27 min

Lab File: VU029087.D

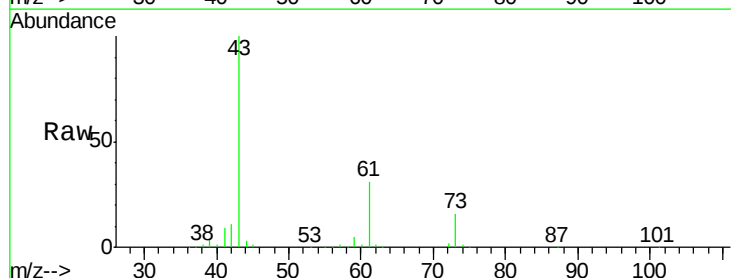
Acq: 09 Jan 2019 14:12

Tgt Ion: 63 Resp: 765

Ion Ratio Lower Upper

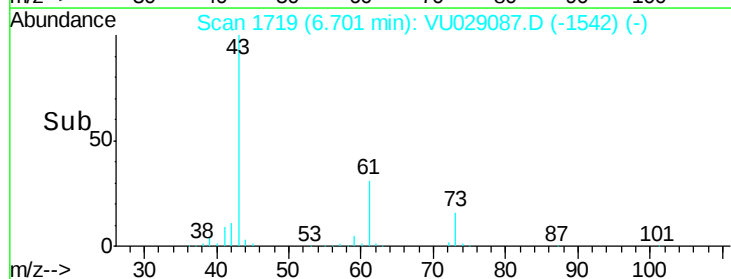
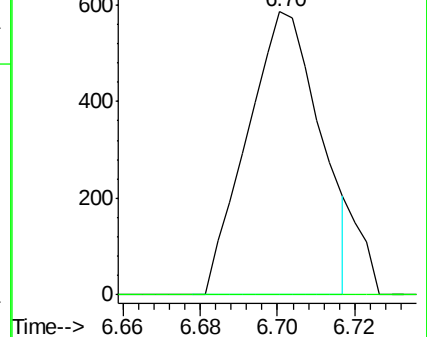
63 100

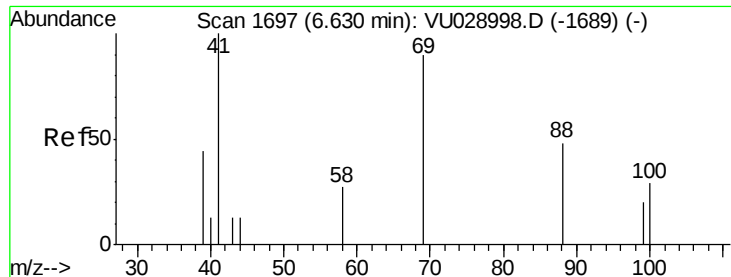
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU029087.D (-1542) (-)

Ion 64.90 (64.60 to 65.60): VU029087.D (-1542) (-)





#48

Methvl methacrylate

Concen: 35.778 ug/l

RT: 6.70 min Scan# 1720

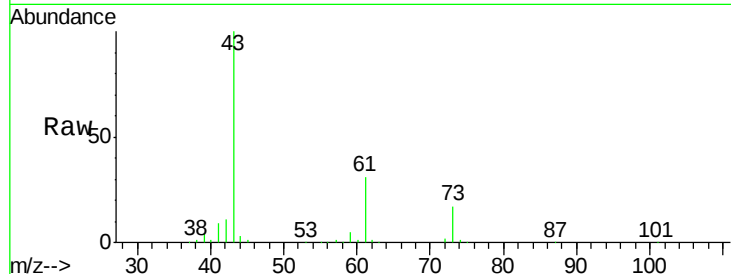
Delta R.T. 0.08 min

Lab File: VU029087.D

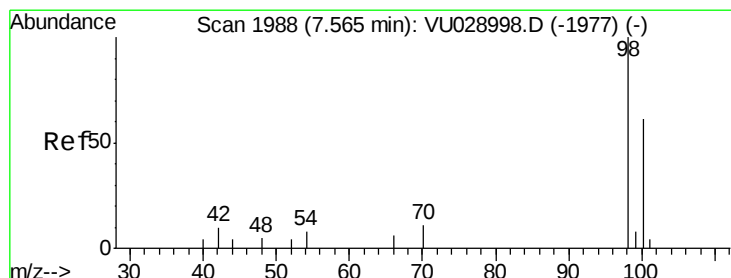
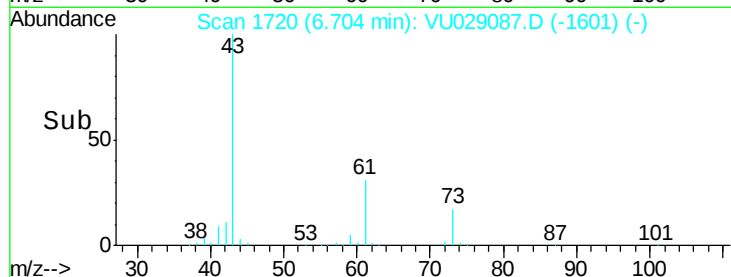
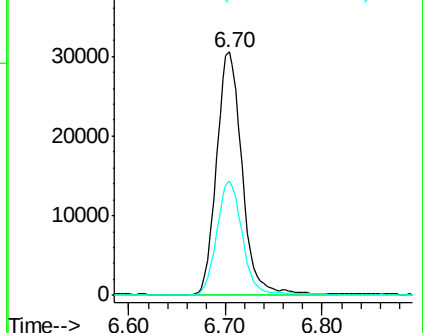
Acq: 09 Jan 2019 14:12

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 41 Resp: 56501
Ion Ratio Lower Upper
41 100
69 0.0 73.6 110.4#
39 47.0 39.6 59.4



Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0



#50

Toluene-d8

Concen: 50.322 ug/l

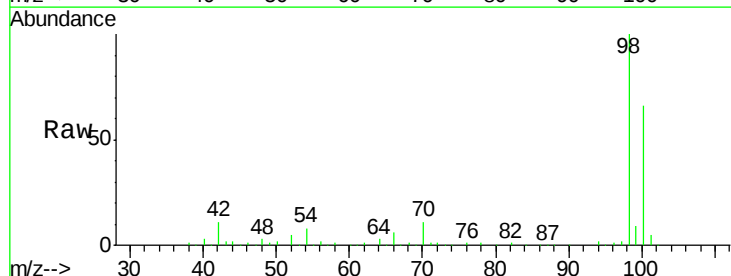
RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

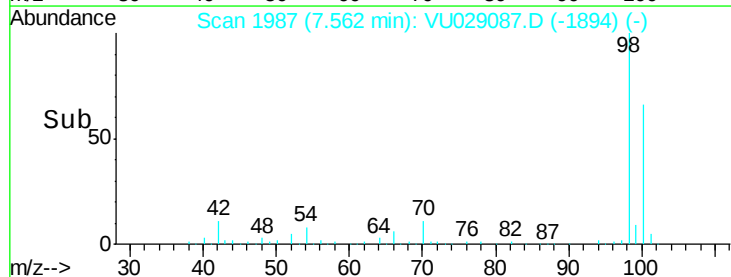
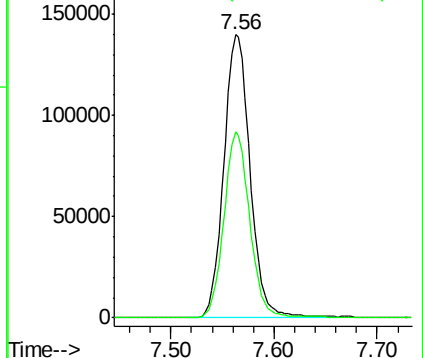
Lab File: VU029087.D

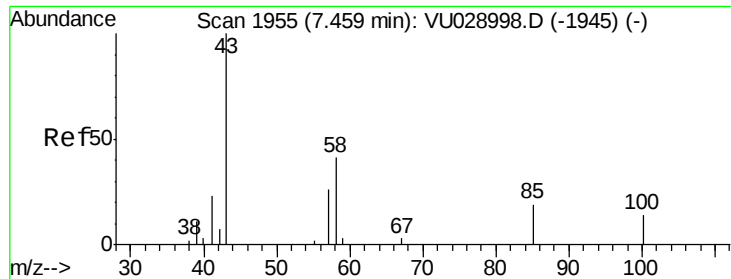
Acq: 09 Jan 2019 14:12

Tgt Ion: 98 Resp: 248158
Ion Ratio Lower Upper
98 100
100 64.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 2.247 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.10 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

Instrument :

MSVOA_U

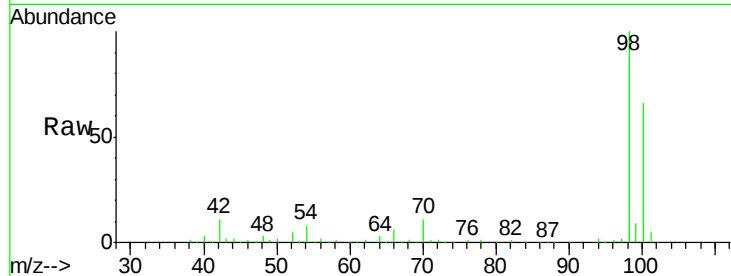
ClientSampleId :

Tot Ion: 43 Resp: 4959

Ion Ratio Lower Upper

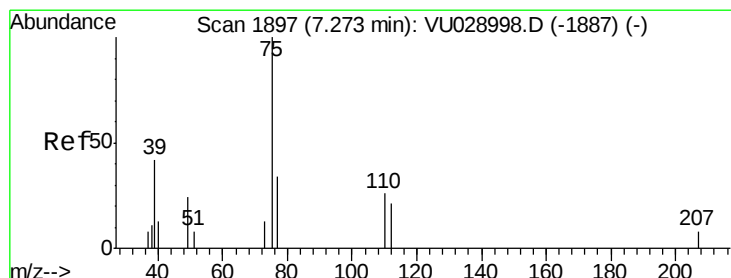
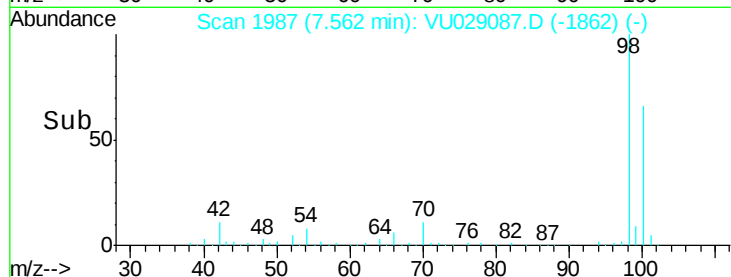
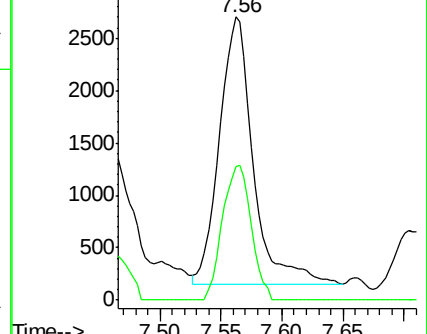
43 100

58 42.9 33.9 50.9



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 9.975 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

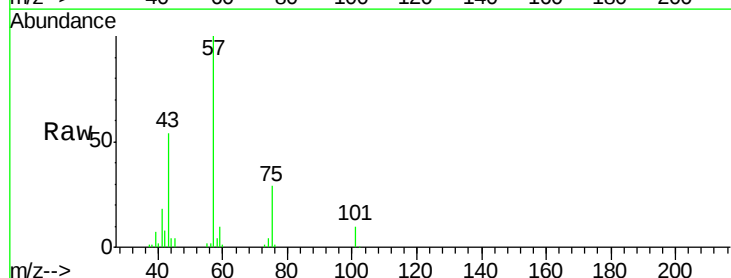
Tgt Ion: 75 Resp: 24180

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

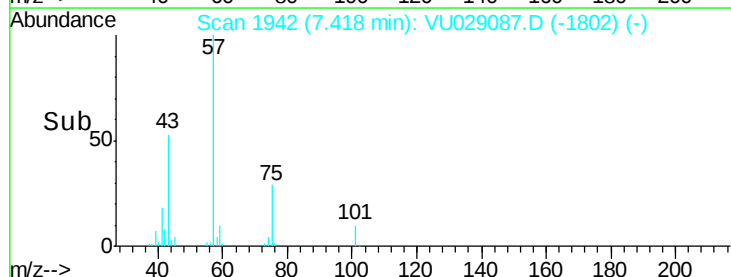
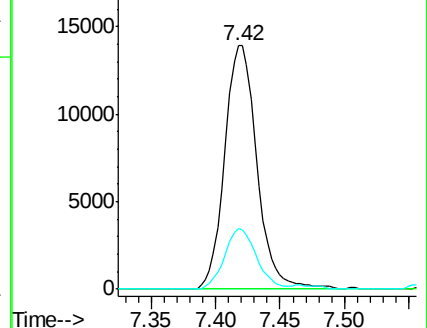
39 24.7 32.2 48.4#

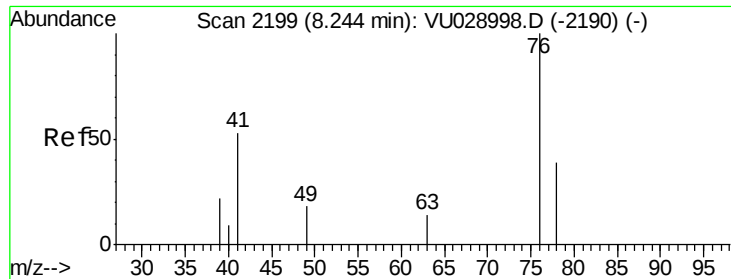


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

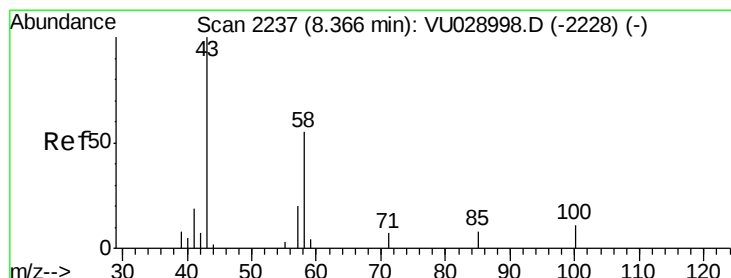
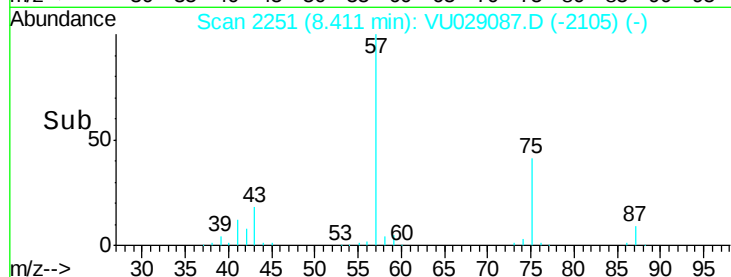
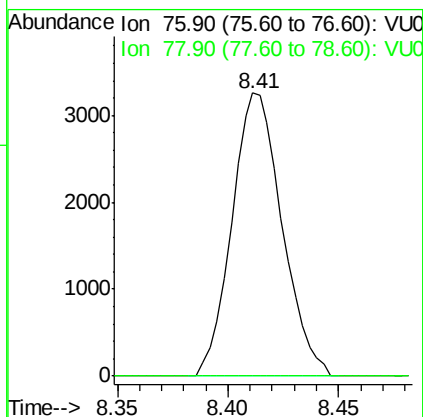
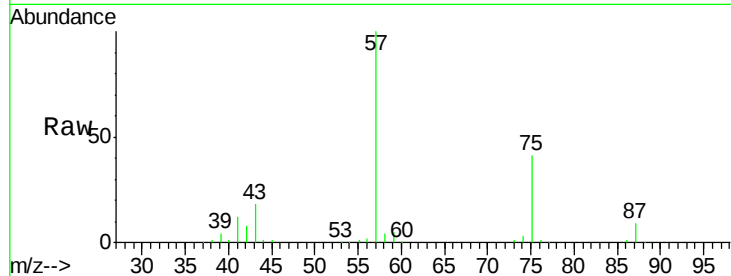




#57
 1,3-Dichloropropane
 Concen: 2.043 ug/l
 RT: 8.41 min Scan# 2251
 Delta R.T. 0.17 min
 Lab File: VU029087.D
 Acq: 09 Jan 2019 14:12

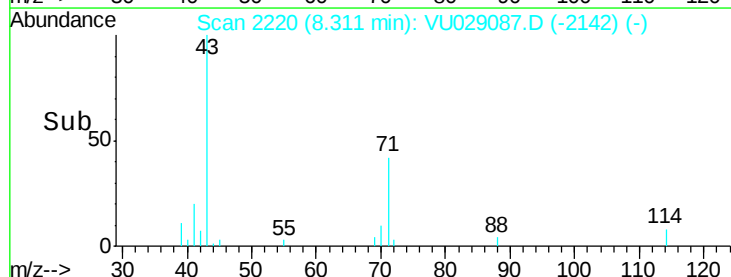
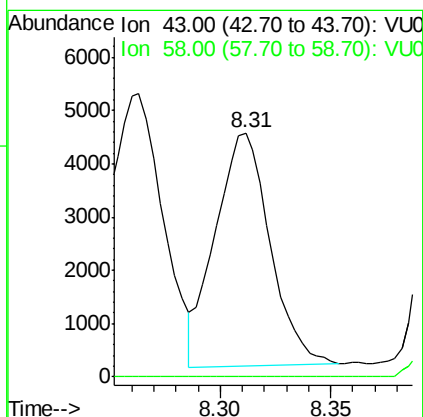
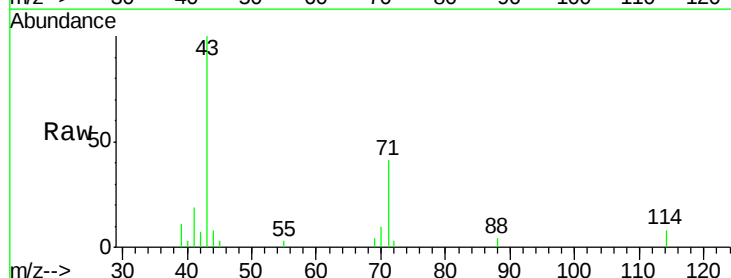
Instrument :
 MSVOA_U
 ClientSampleId :

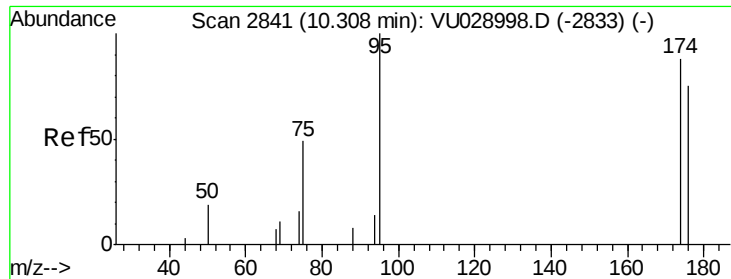
Tot Ion: 76 Resp: 5123
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 4.351 ug/l
 RT: 8.31 min Scan# 2220
 Delta R.T. -0.05 min
 Lab File: VU029087.D
 Acq: 09 Jan 2019 14:12

Tgt Ion: 43 Resp: 7538
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#





#62

4-Bromofluorobenzene

Concen: 44.480 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

Instrument :

MSVOA_U

ClientSampleId :

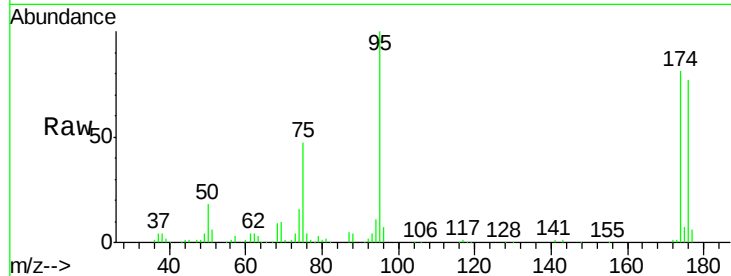
Tot Ion: 95 Resp: 78830

Ion Ratio Lower Upper

95 100

174 84.2 0.0 170.6

176 80.6 0.0 165.0

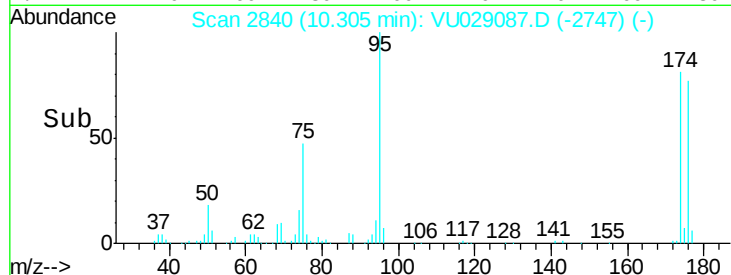


Abundance Ion 94.90 (94.60 to 95.60): VU028998.D (-2833) (-)

Ion 173.80 (173.50 to 174.50): VU028998.D (-2833) (-)

Ion 175.80 (175.50 to 176.50): VU028998.D (-2833) (-)

Time-->

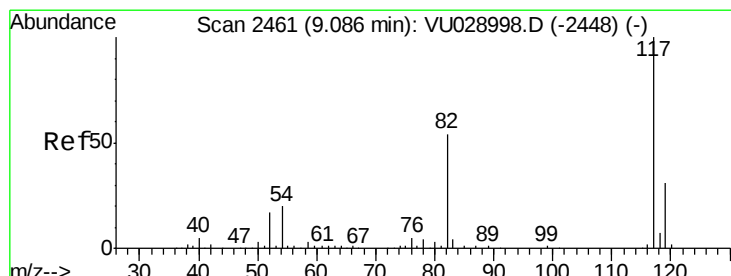


Abundance Ion 94.90 (94.60 to 95.60): VU029087.D (-2747) (-)

Ion 173.80 (173.50 to 174.50): VU029087.D (-2747) (-)

Ion 175.80 (175.50 to 176.50): VU029087.D (-2747) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

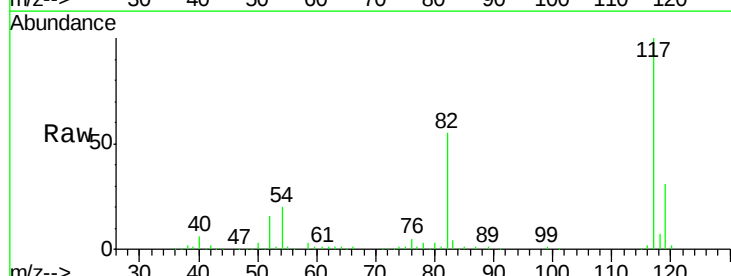
Tgt Ion: 117 Resp: 184688

Ion Ratio Lower Upper

117 100

82 54.8 43.9 65.9

119 30.9 26.0 39.0

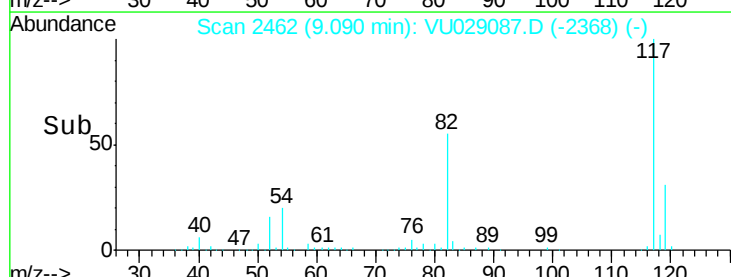


Abundance Ion 116.90 (116.60 to 117.60): VU028998.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU028998.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU028998.D (-2448) (-)

Time-->

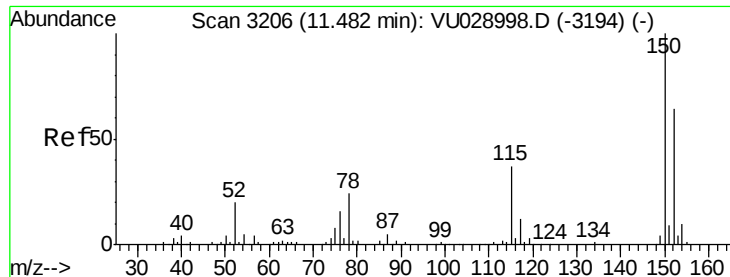


Abundance Ion 116.90 (116.60 to 117.60): VU029087.D (-2368) (-)

Ion 82.00 (81.70 to 82.70): VU029087.D (-2368) (-)

Ion 118.90 (118.60 to 119.60): VU029087.D (-2368) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

Instrument :

MSVOA_U

ClientSampleId :

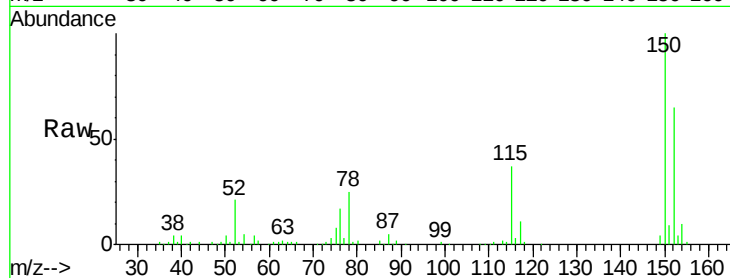
Tot Ion:152 Resp: 72858

Ion Ratio Lower Upper

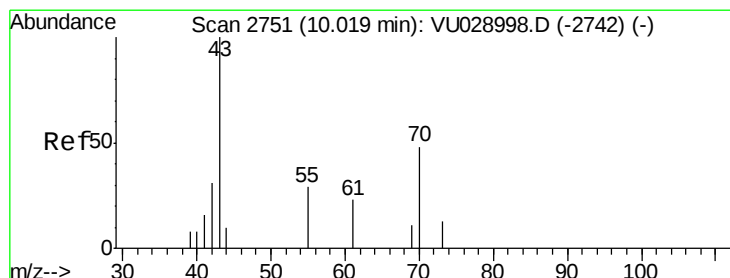
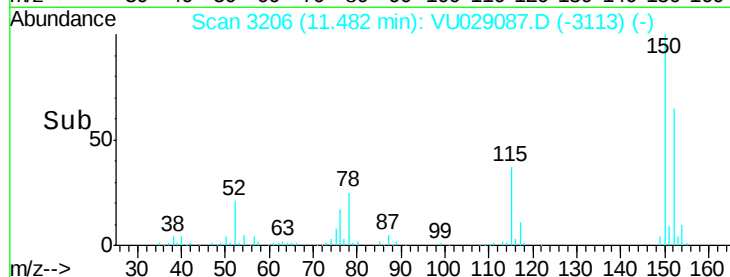
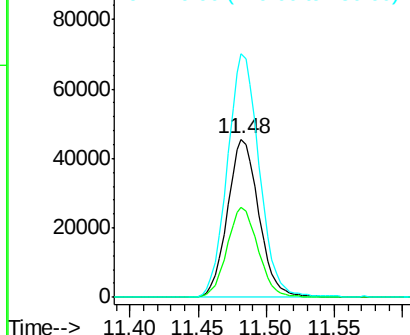
152 100

115 56.4 40.1 120.3

150 157.0 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



#74

N-ethyl acetate

Concen: 2.938 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

Tgt Ion: 43 Resp: 6828

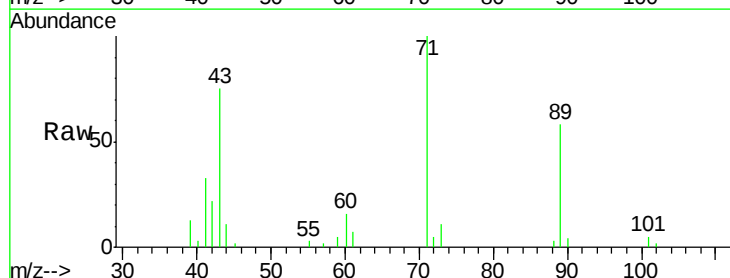
Ion Ratio Lower Upper

43 100

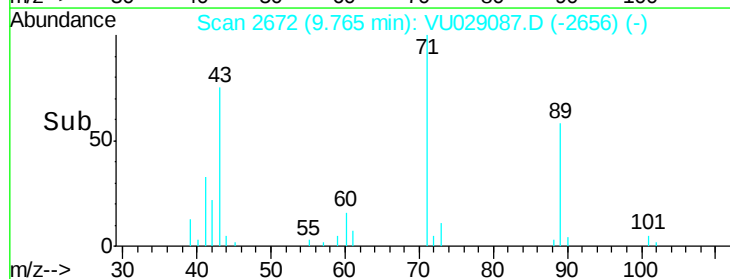
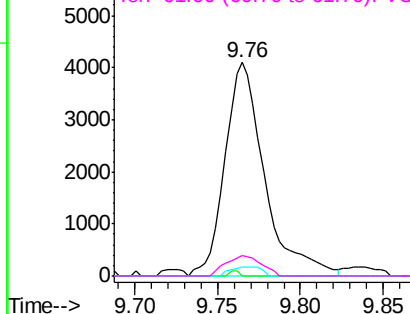
70 0.6 36.3 54.5#

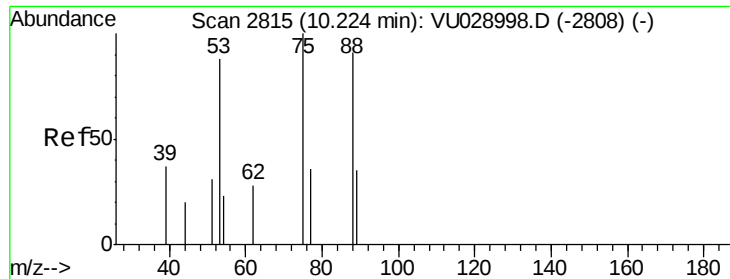
55 3.3 20.5 30.7#

61 8.5 21.8 32.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 70.00 (69.70 to 70.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 61.00 (60.70 to 61.70): VU0





#76

1,2,3-Trichloropropane

Concen: 21.318 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

Instrument :

MSVOA_U

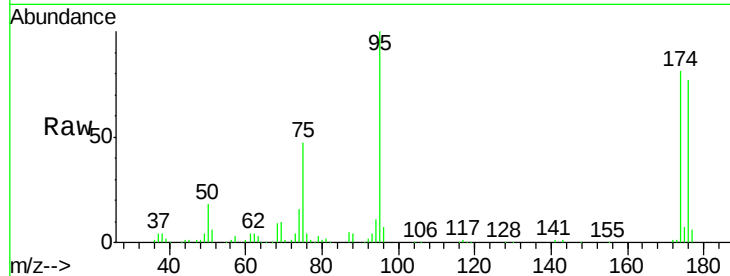
ClientSampleId :

Tot Ion: 75 Resp: 38055

Ion Ratio Lower Upper

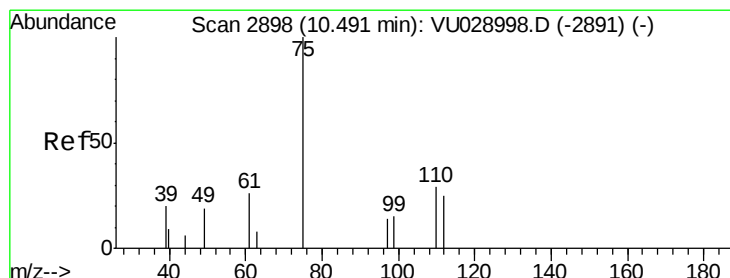
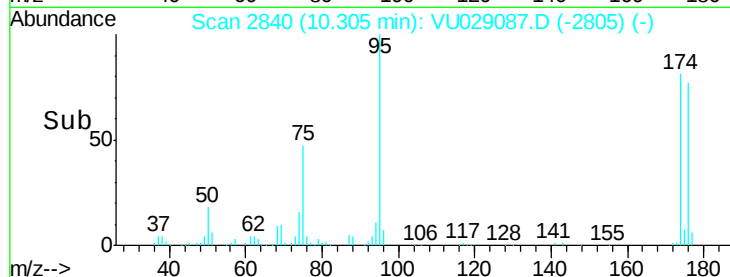
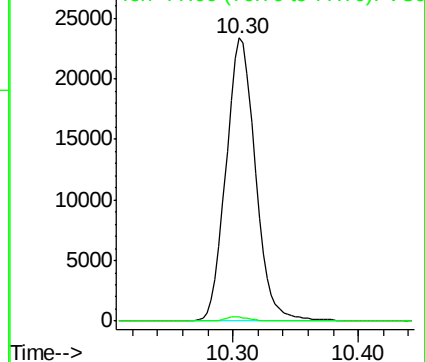
75 100

77 1.1 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: 54.979 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029087.D

Acq: 09 Jan 2019 14:12

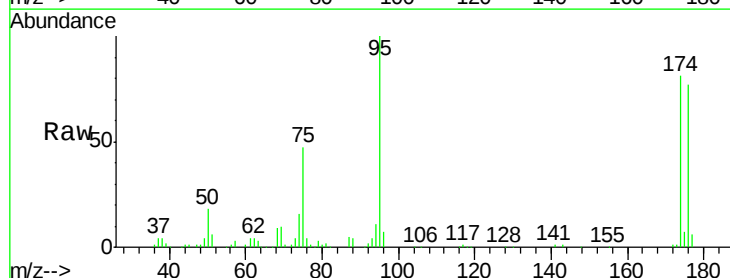
Tgt Ion: 75 Resp: 38055

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

