

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\
 Data File : VU029094.D
 Acq On : 09 Jan 2019 17:02
 Operator : MD/SY
 Sample : PB116248ZHE#09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 10 04:06:53 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	107638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	187243	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	179362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	72658	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	73841	55.49	ug/l	0.00
Spiked Amount			Recovery	=	110.98%	
35) Dibromofluoromethane	4.88	113	64356	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
50) Toluene-d8	7.56	98	244525	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	10.30	95	77350	44.92	ug/l	0.00
Spiked Amount			Recovery	=	89.84%	

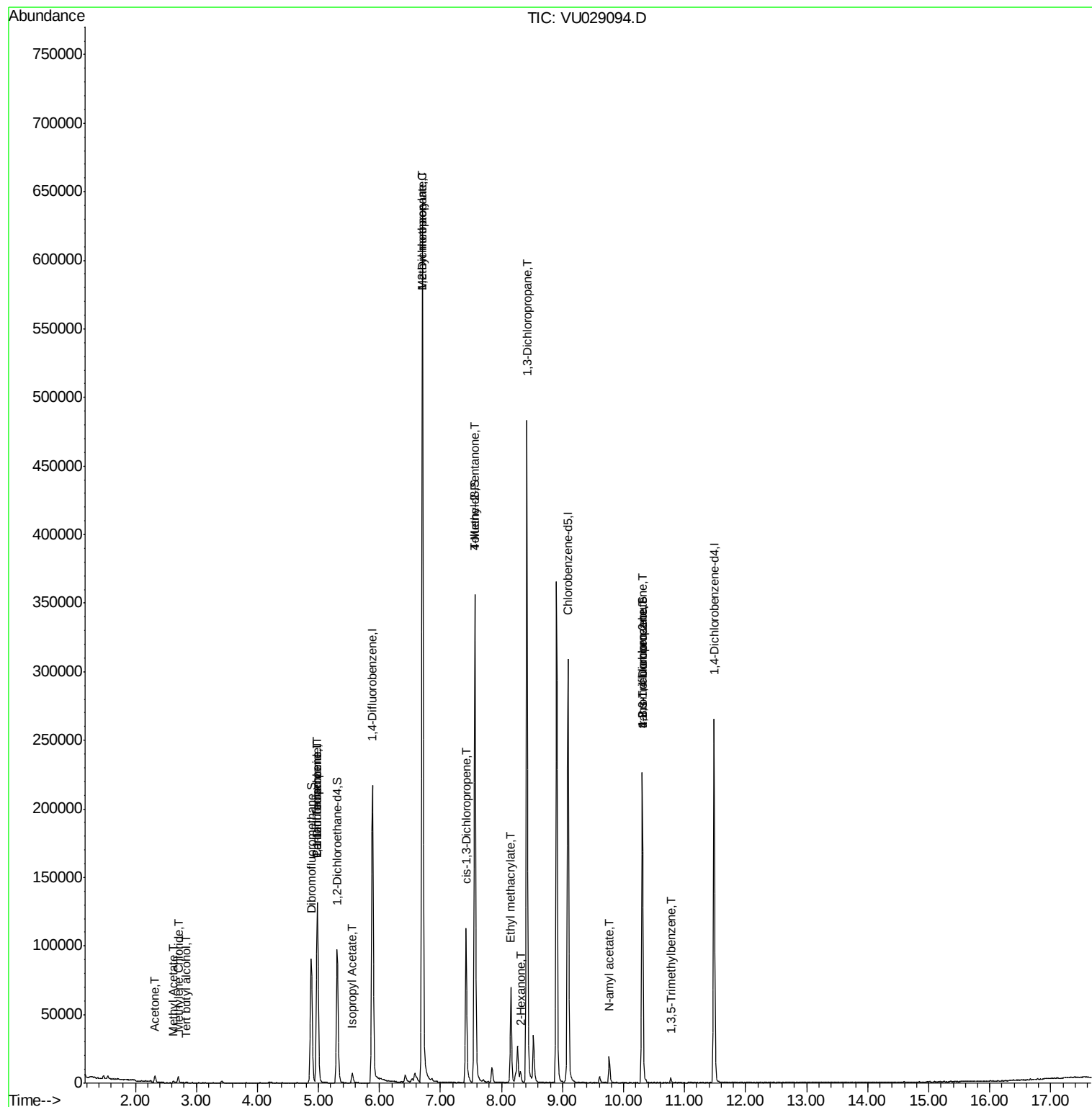
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	672	Below Cal		100
11) Tert butyl alcohol	2.84	59	303	0.896	ug/l #	73
16) Acetone	2.32	43	5685	6.782	ug/l	96
18) Methyl Acetate	2.62	43	1576	0.809	ug/l #	82
20) Methylene Chloride	2.70	84	2060	1.447	ug/l	91
31) Cyclohexane	4.99	56	1787	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7690	4.109	ug/l #	46
38) Carbon Tetrachloride	4.98	117	9845	6.307	ug/l #	18
43) Isopropyl Acetate	5.55	43	8355	2.651	ug/l	95
45) 1,2-Dichloropropane	6.70	63	611	0.396	ug/l #	43
48) Methyl methacrylate	6.70	41	53405	34.803	ug/l #	37
51) 4-Methyl-2-Pentanone	7.56	43	4167	1.943	ug/l	97
54) cis-1,3-Dichloropropene	7.42	75	21158	8.983	ug/l #	61
56) Ethyl methacrylate	8.15	69	439	0.200	ug/l #	1
57) 1,3-Dichloropropane	8.41	76	4975	2.042	ug/l #	42
59) 2-Hexanone	8.31	43	7103	4.219	ug/l #	21
74) N-amyl acetate	9.76	43	6806	2.937	ug/l #	46
76) 1,2,3-Trichloropropane	10.30	75	37559	21.098	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	2481	0.552	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.30	75	37559	54.412	ug/l #	100

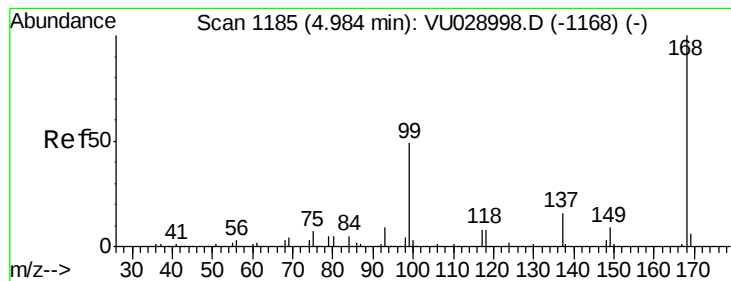
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU010919\
Data File : VU029094.D
Acq On : 09 Jan 2019 17:02
Operator : MD/SY
Sample : PB116248ZHE#09
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jan 10 04:06:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
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: VU029094.D

Acq: 09 Jan 2019 17:02

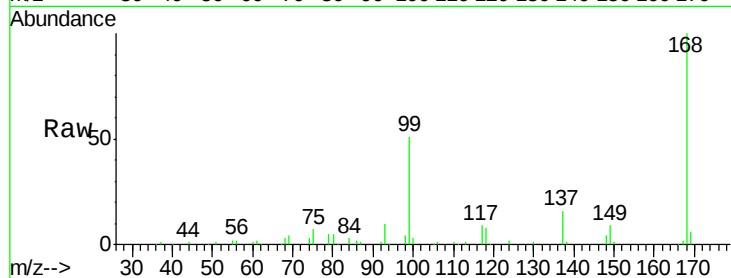
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 107638

Ion Ratio Lower Upper

168 100

99 50.9 42.0 63.0



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

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

4.98

50000

40000

30000

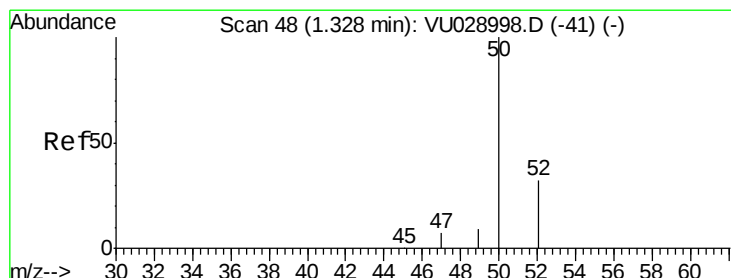
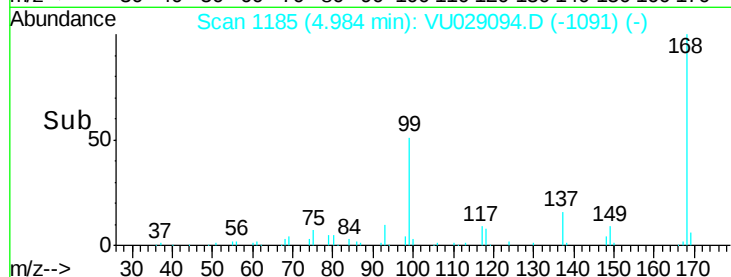
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 48

Delta R.T. 0.00 min

Lab File: VU029094.D

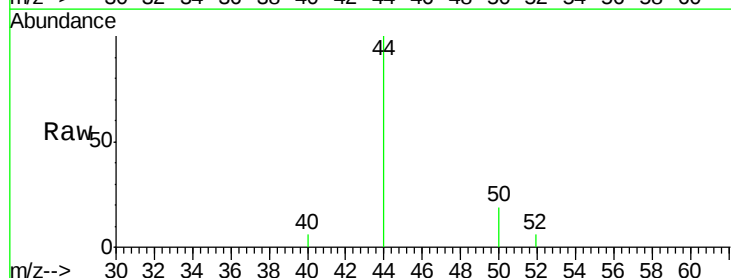
Acq: 09 Jan 2019 17:02

Tgt Ion: 50 Resp: 672

Ion Ratio Lower Upper

50 100

52 32.5 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VU028998.D (-41) (-)

Ion 51.90 (51.60 to 52.60): VU028998.D (-41) (-)

1.33

600

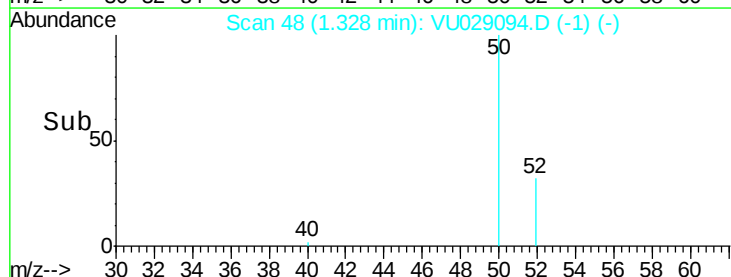
400

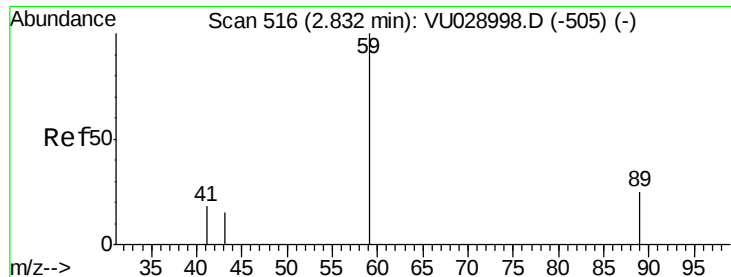
200

0

1.30 1.32 1.34 1.36

Time-->

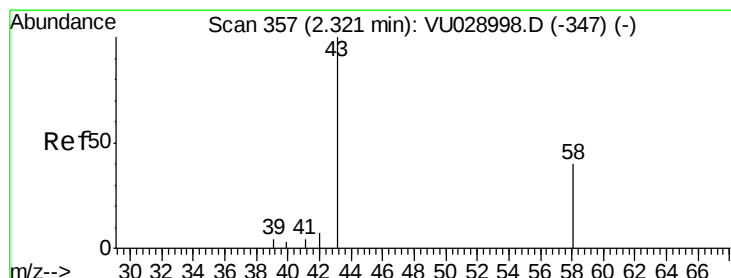
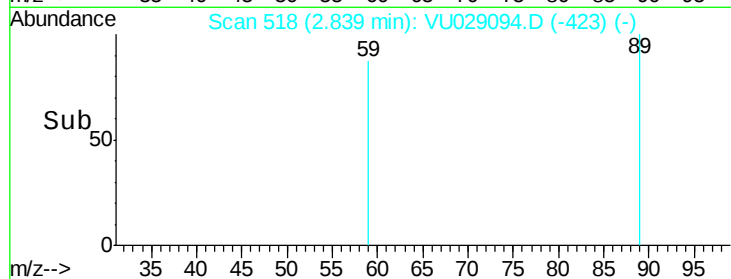
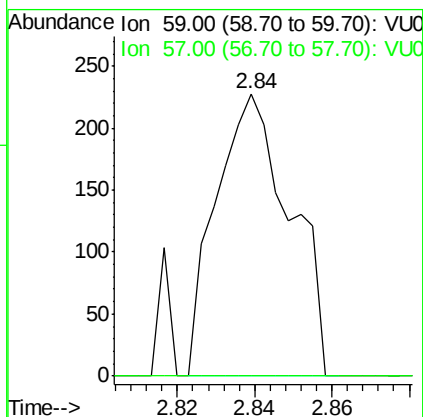
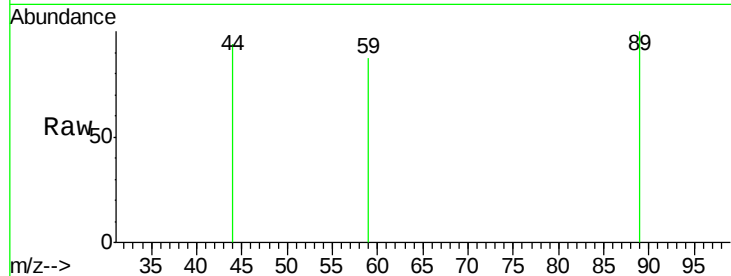




#11
Tert butvl alcohol
Concen: 0.896 ug/l
RT: 2.84 min Scan# 518
Delta R.T. 0.01 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

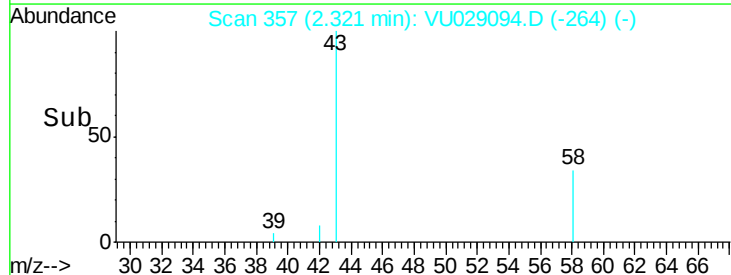
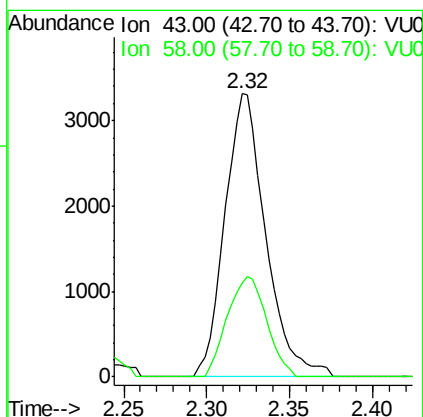
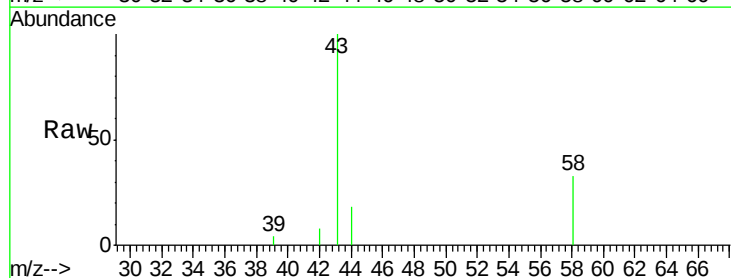
Instrument :
MSVOA_U
ClientSampleId :

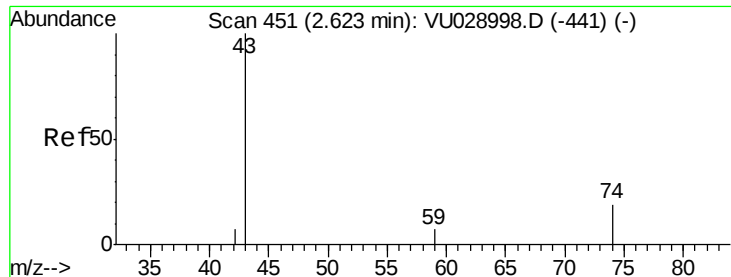
Tot Ion: 59 Resp: 303
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 6.782 ug/l
RT: 2.32 min Scan# 357
Delta R.T. 0.00 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

Tgt Ion: 43 Resp: 5685
Ion Ratio Lower Upper
43 100
58 33.4 28.6 42.8

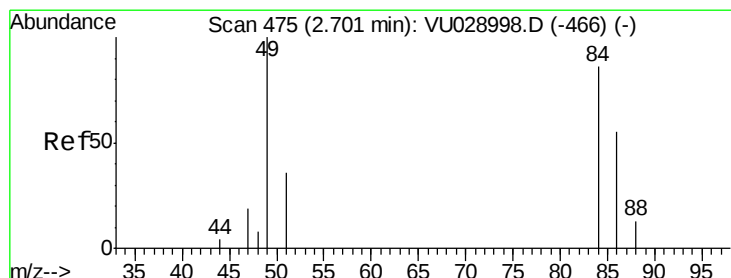
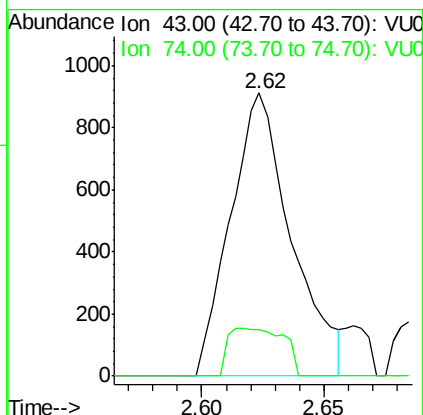
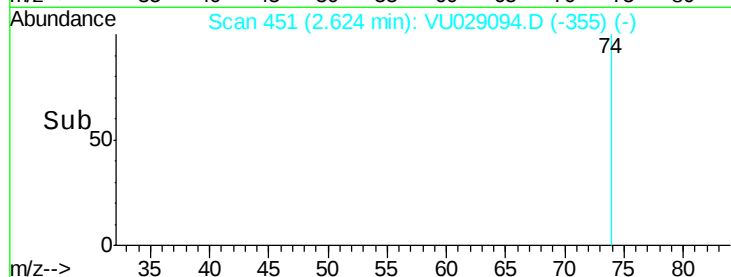
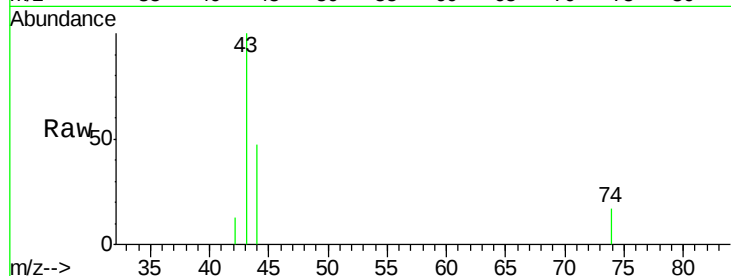




#18
Methyl Acetate
Concen: 0.809 ug/l
RT: 2.62 min Scan# 451
Delta R.T. 0.01 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

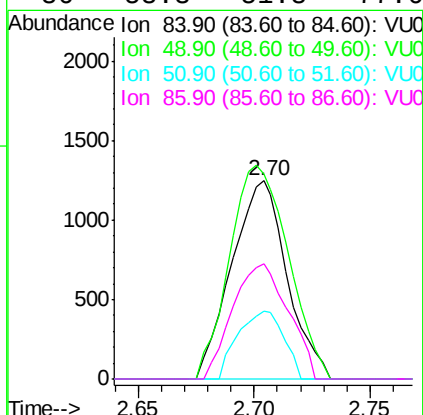
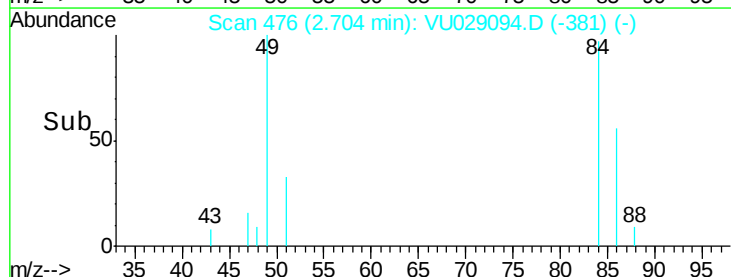
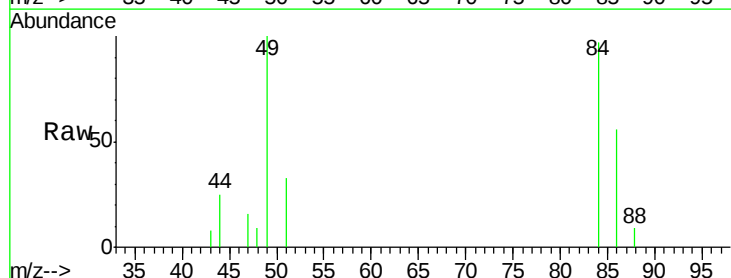
Instrument :
MSVOA_U
ClientSampled :

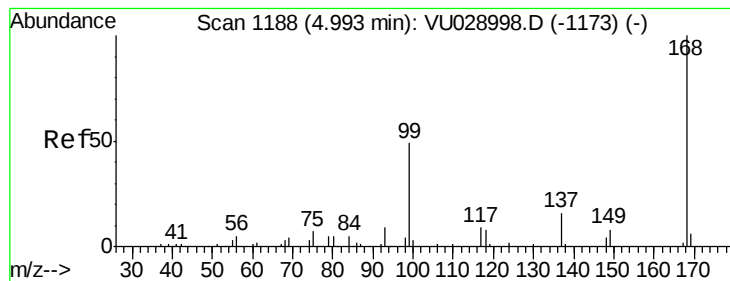
Tot Ion: 43 Resp: 1576
Ion Ratio Lower Upper
43 100
74 15.5 19.5 29.3#



#20
Methylene Chloride
Concen: 1.447 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.01 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

Tgt Ion: 84 Resp: 2060
Ion Ratio Lower Upper
84 100
49 103.4 91.9 137.9
51 34.4 29.2 43.8
86 58.3 51.8 77.6





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

Instrument :

MSVOA_U

ClientSampled :

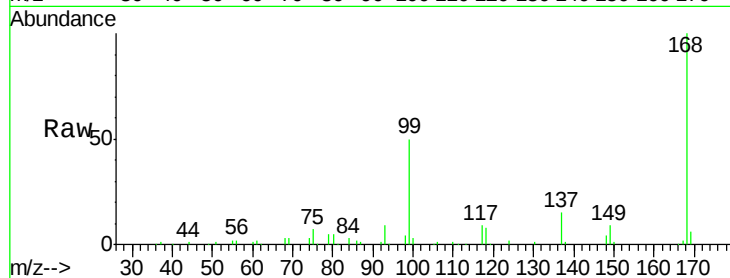
Tot Ion: 56 Resp: 1787

Ion Ratio Lower Upper

56 100

69 177.7 26.7 40.1#

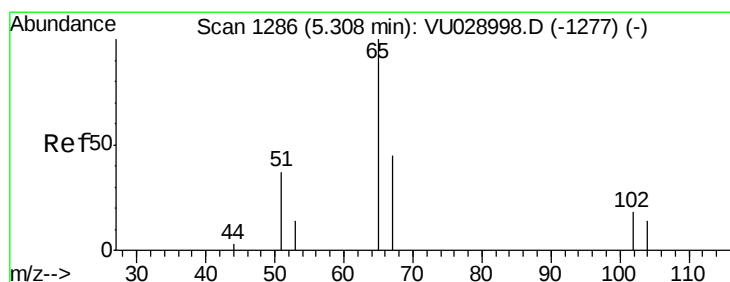
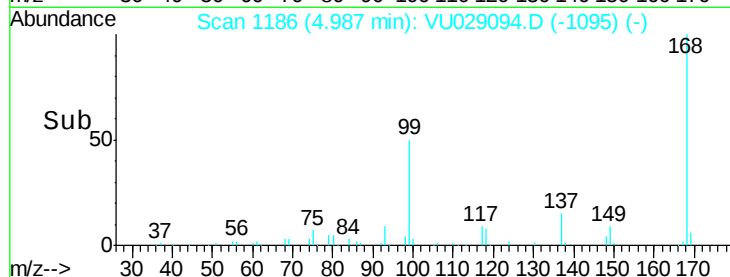
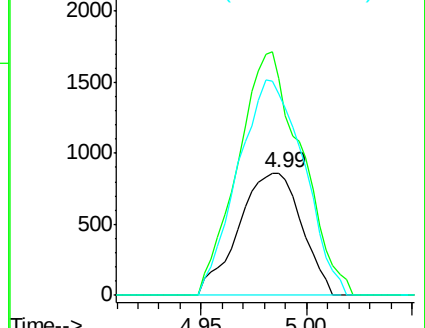
84 165.2 65.7 98.5#



Abundance Ion 56.00 (55.70 to 56.70): VU028998.D (-1173) (-)

Ion 69.00 (68.70 to 69.70): VU028998.D (-1173) (-)

Ion 84.00 (83.70 to 84.70): VU028998.D (-1173) (-)



#33

1,2-Dichloroethane-d4

Concen: 55.494 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029094.D

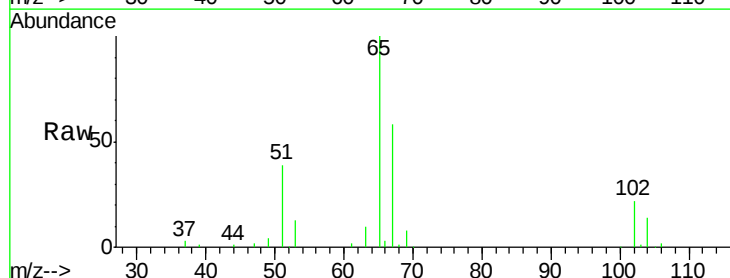
Acq: 09 Jan 2019 17:02

Tgt Ion: 65 Resp: 73841

Ion Ratio Lower Upper

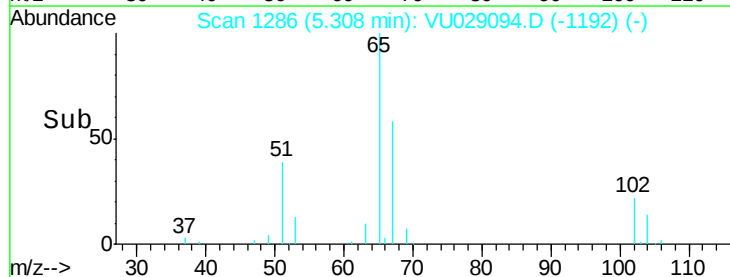
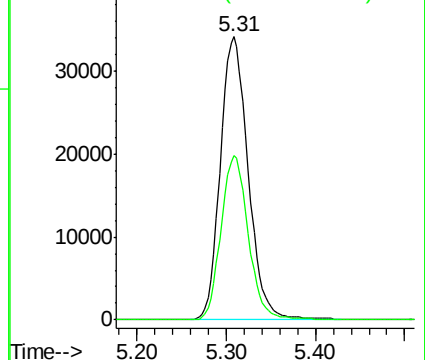
65 100

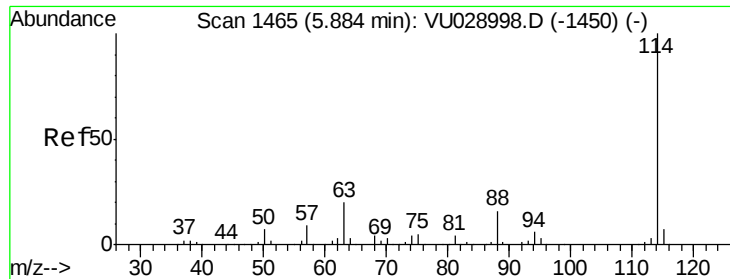
67 56.9 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU028998.D (-1277) (-)

Ion 66.90 (66.60 to 67.60): VU028998.D (-1277) (-)

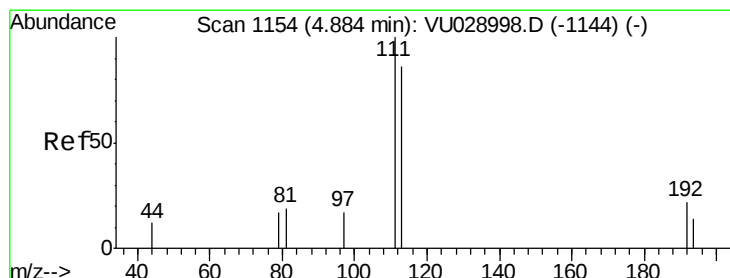
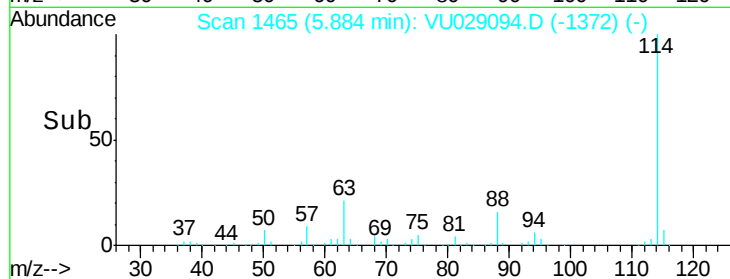
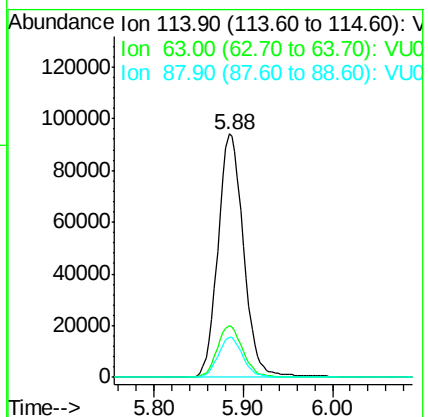
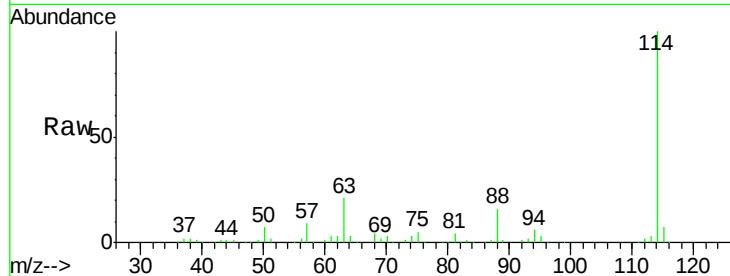




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029094.D
 Acq: 09 Jan 2019 17:02

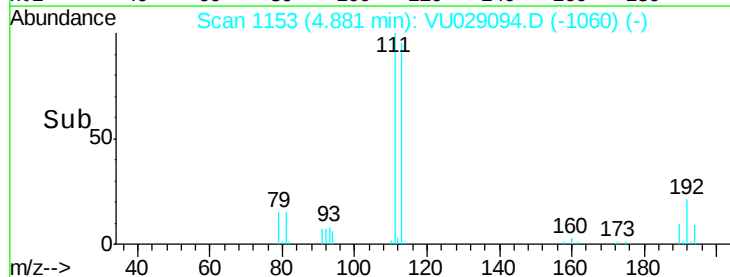
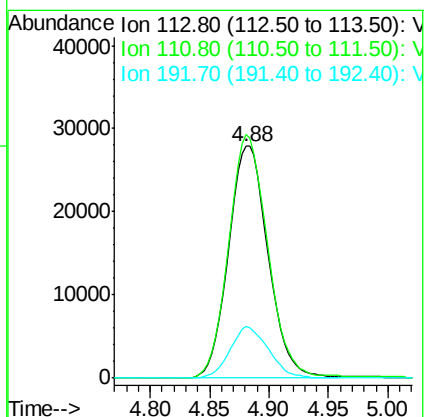
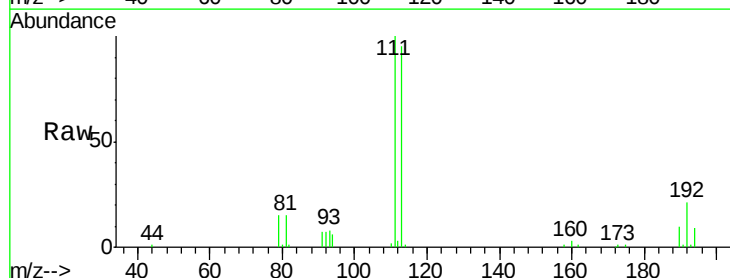
Instrument :
 MSVOA_U
 ClientSampleId :

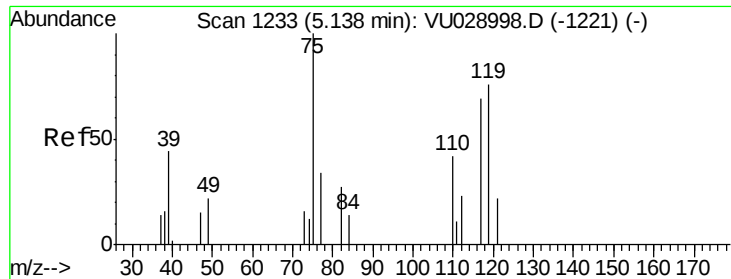
Tot Ion:114 Resp: 187243
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.2
 88 16.3 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 53.022 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029094.D
 Acq: 09 Jan 2019 17:02

Tgt Ion:113 Resp: 64356
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.4 122.2
 192 21.4 16.8 25.2

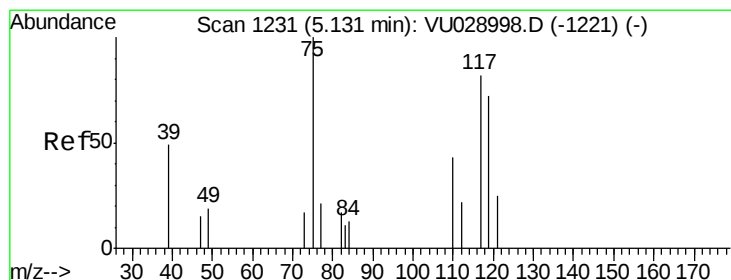
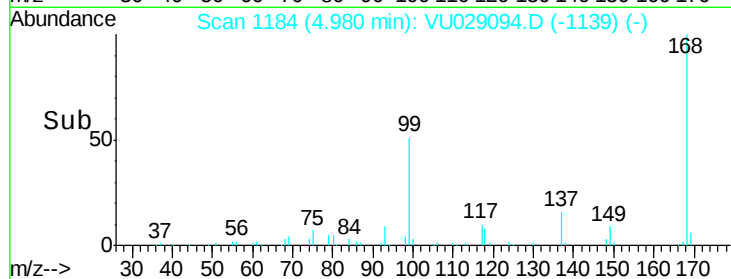
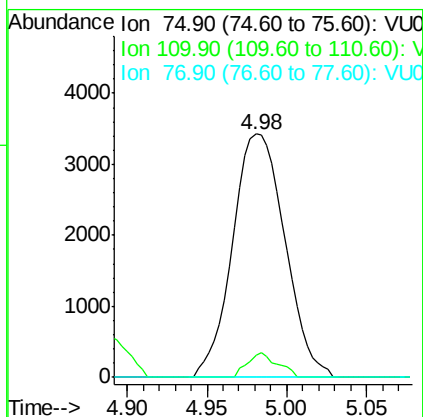
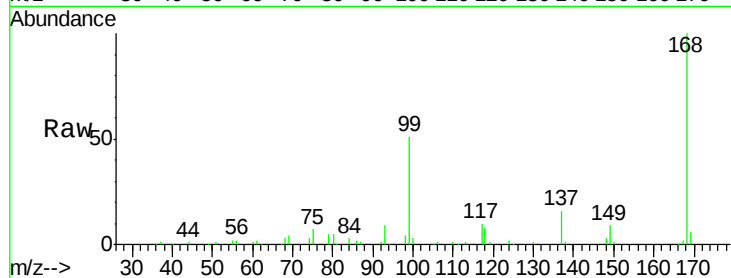




#36
 1,1-Dichloropropene
 Concen: 4.109 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029094.D
 Acq: 09 Jan 2019 17:02

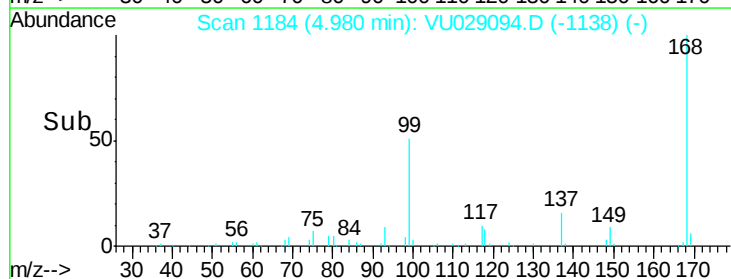
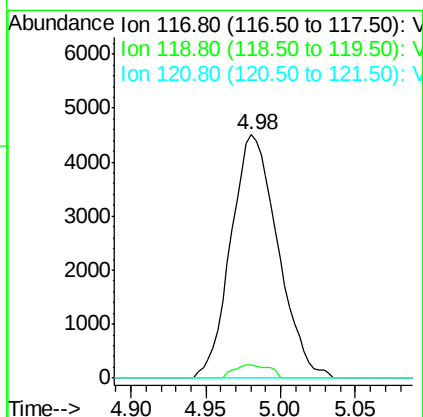
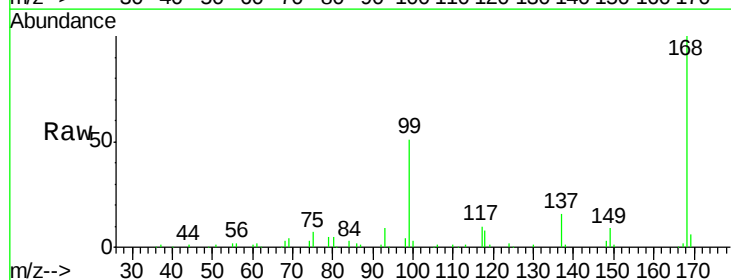
Instrument :
 MSVOA_U
 ClientSampled :

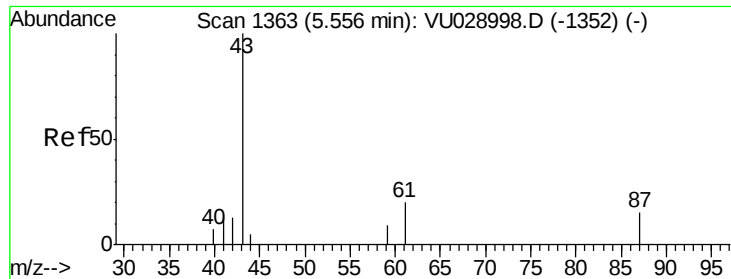
Tot Ion: 75 Resp: 7690
 Ion Ratio Lower Upper
 75 100
 110 5.8 18.4 55.4#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.307 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029094.D
 Acq: 09 Jan 2019 17:02

Tgt Ion: 117 Resp: 9845
 Ion Ratio Lower Upper
 117 100
 119 5.6 74.6 111.8#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 2.651 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.01 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

Instrument :

MSVOA_U

ClientSampleId :

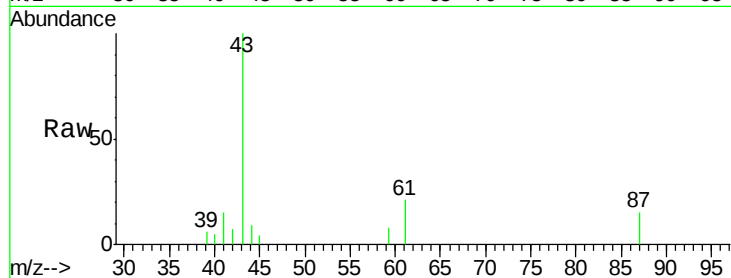
Tot Ion: 43 Resp: 8355

Ion Ratio Lower Upper

43 100

61 20.0 17.8 26.6

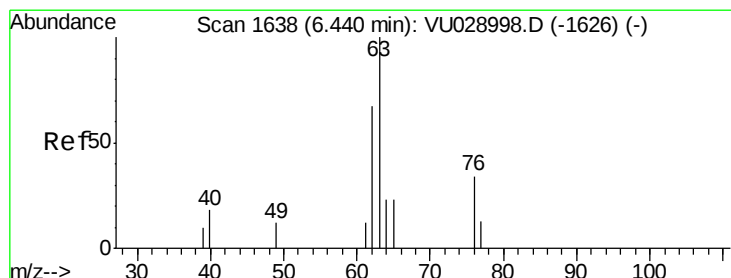
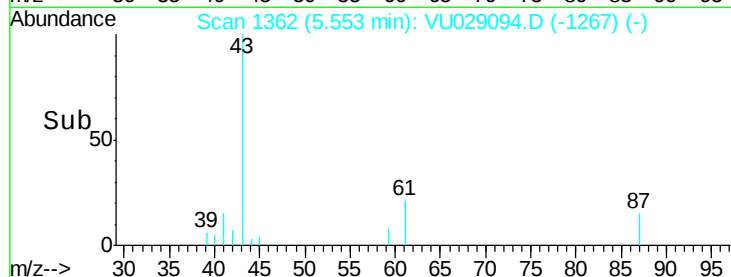
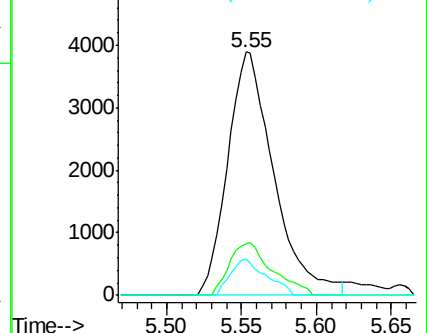
87 11.5 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU028998.D (-1352) (-)

Ion 61.00 (60.70 to 61.70): VU028998.D (-1352) (-)

Ion 87.00 (86.70 to 87.70): VU028998.D (-1352) (-)



#45

1,2-Dichloropropane

Concen: 0.396 ug/l

RT: 6.70 min Scan# 1720

Delta R.T. 0.27 min

Lab File: VU029094.D

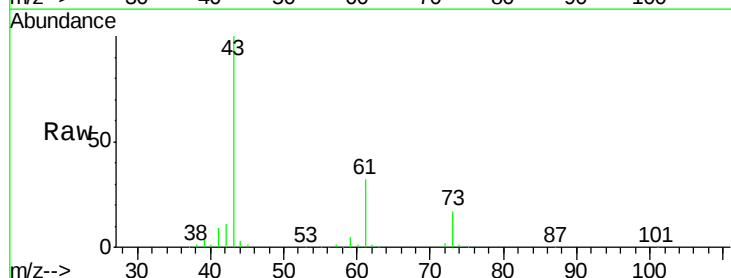
Acq: 09 Jan 2019 17:02

Tgt Ion: 63 Resp: 611

Ion Ratio Lower Upper

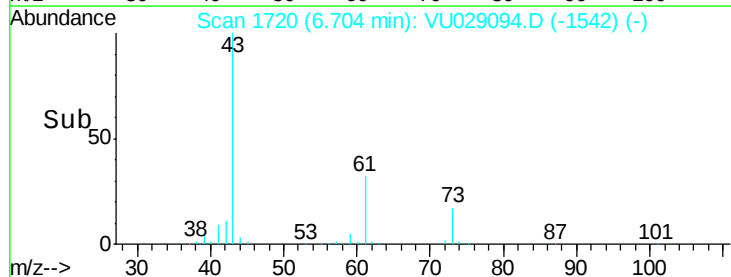
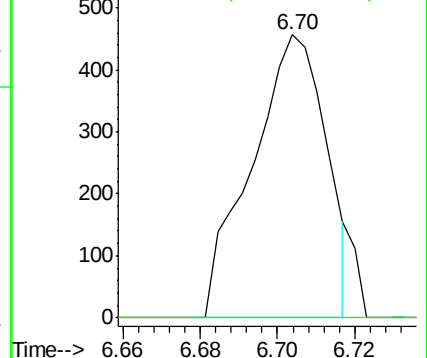
63 100

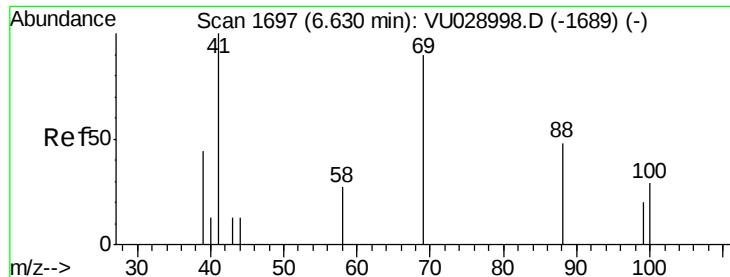
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VU028998.D (-1626) (-)

Ion 64.90 (64.60 to 65.60): VU028998.D (-1626) (-)

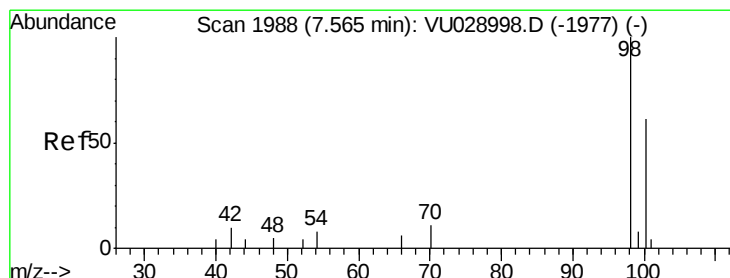
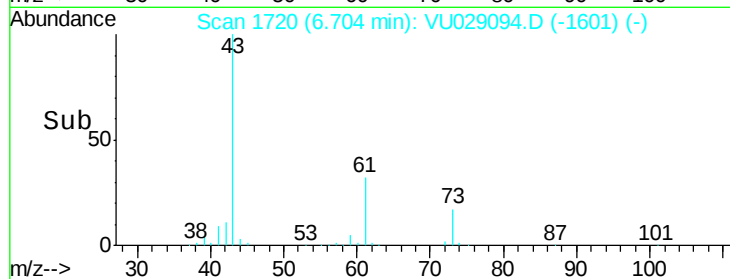
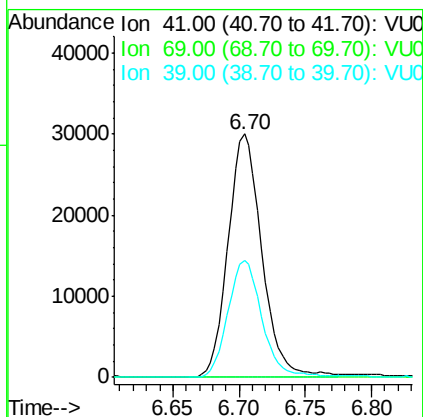
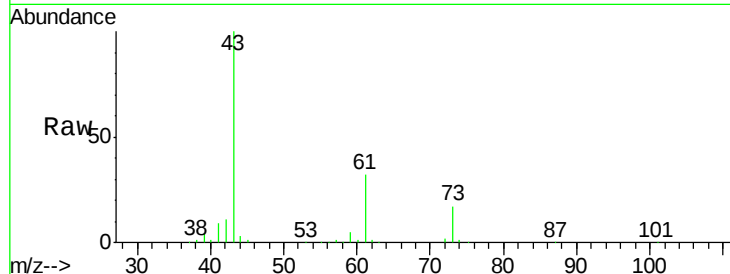




#48
Methvl methacrylate
Concen: 34.803 ug/l
RT: 6.70 min Scan# 1720
Delta R.T. 0.08 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

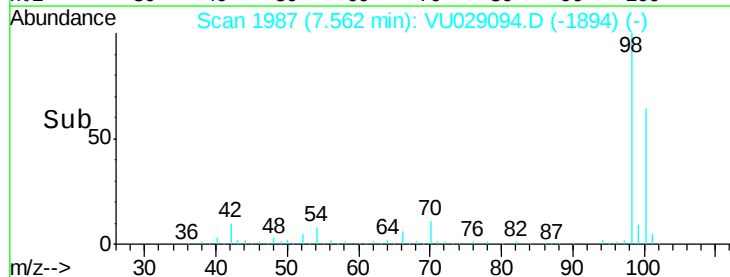
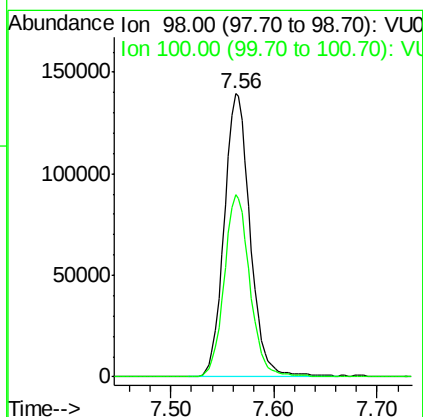
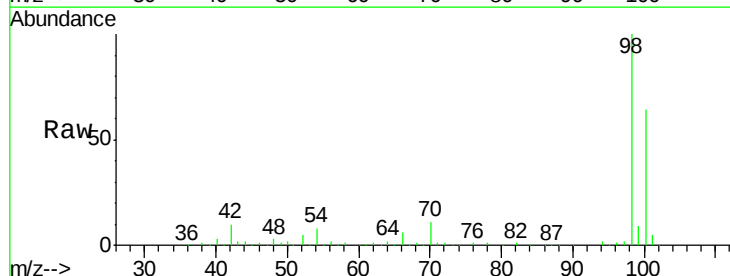
Instrument :
MSVOA_U
ClientSampleId :

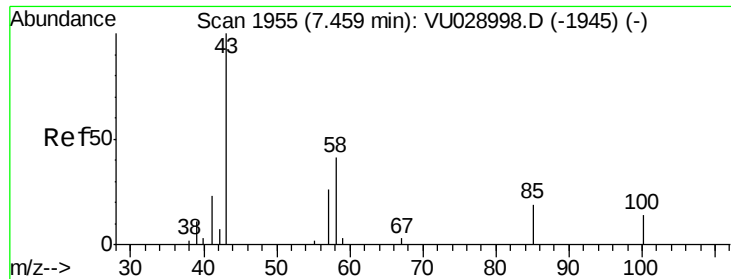
Tot Ion: 41 Resp: 53405
Ion Ratio Lower Upper
41 100
69 0.0 73.6 110.4#
39 48.6 39.6 59.4



#50
Toluene-d8
Concen: 51.030 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

Tgt Ion: 98 Resp: 244525
Ion Ratio Lower Upper
98 100
100 63.5 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 1.943 ug/l

RT: 7.56 min Scan# 1986

Delta R.T. 0.10 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

Instrument :

MSVOA_U

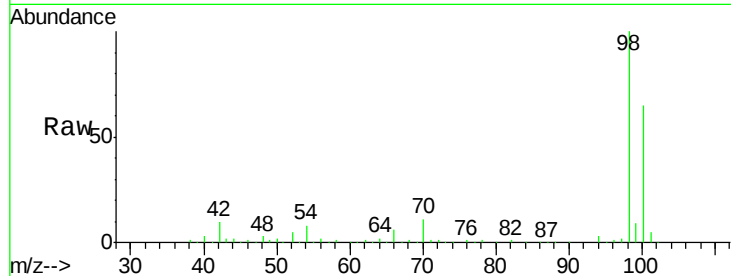
ClientSampleId :

Tot Ion: 43 Resp: 4167

Ion Ratio Lower Upper

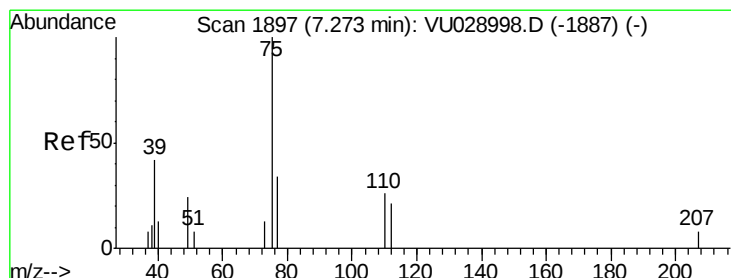
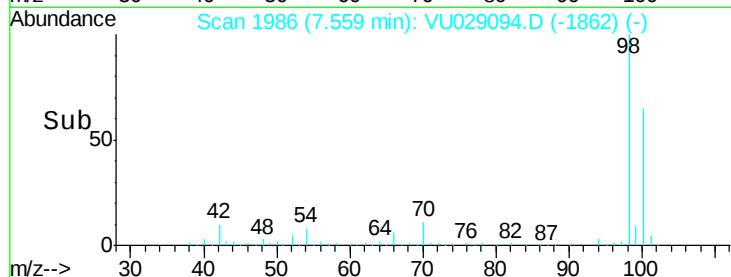
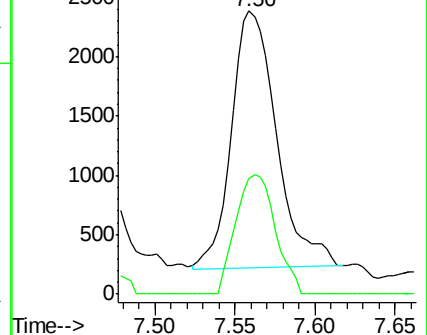
43 100

58 40.6 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: 8.983 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

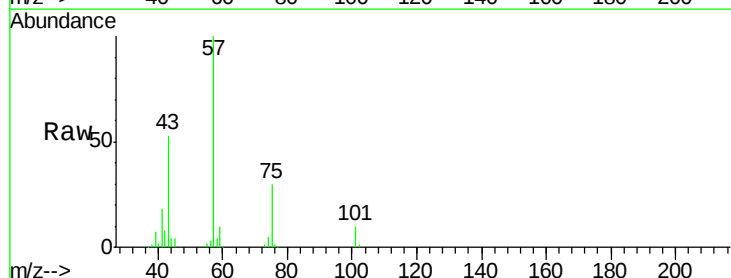
Tgt Ion: 75 Resp: 21158

Ion Ratio Lower Upper

75 100

77 0.8 25.0 37.6#

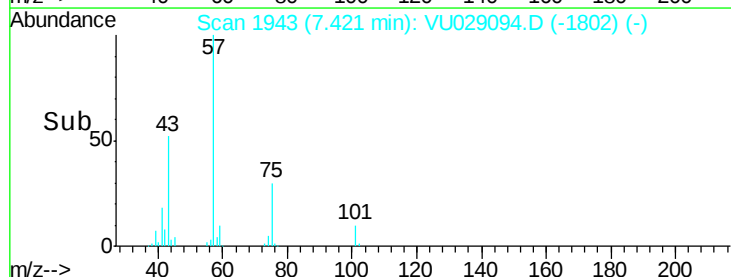
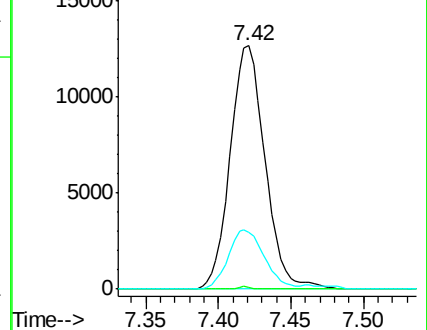
39 23.5 32.2 48.4#

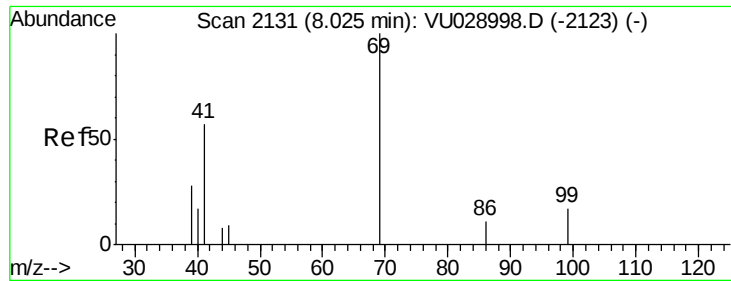


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0





#56

Ethyl methacrylate

Concen: 0.200 ug/l

RT: 8.15 min Scan# 2171

Delta R.T. 0.14 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

Instrument :
MSVOA_U
ClientSampleId :

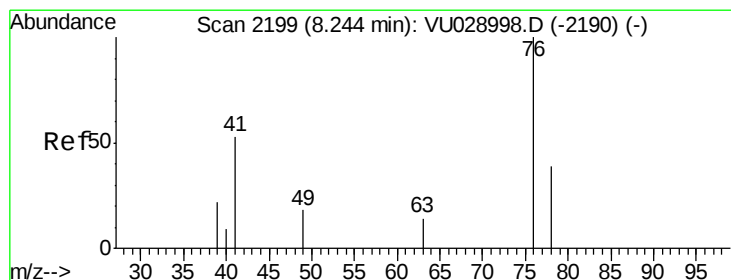
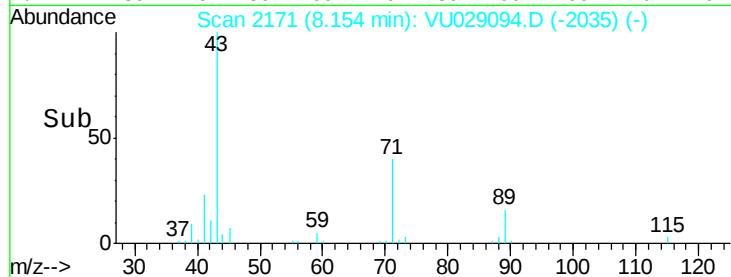
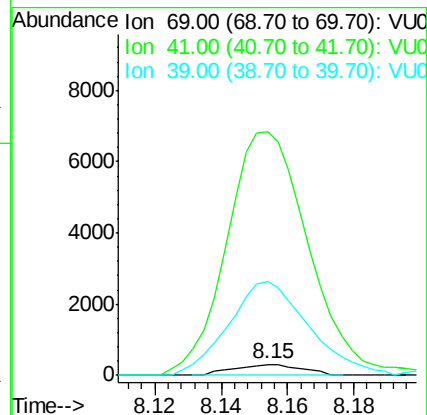
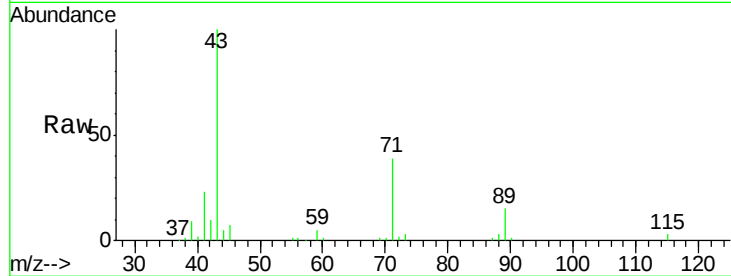
Tot Ion: 69 Resp: 439

Ion Ratio Lower Upper

69 100

41 2695.7 47.5 71.3#

39 1016.4 22.5 33.7#



#57

1,3-Dichloropropane

Concen: 2.042 ug/l

RT: 8.41 min Scan# 2252

Delta R.T. 0.17 min

Lab File: VU029094.D

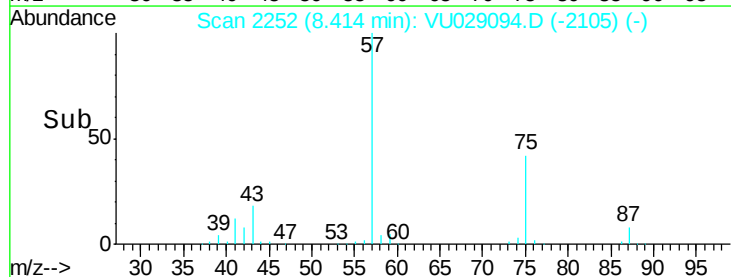
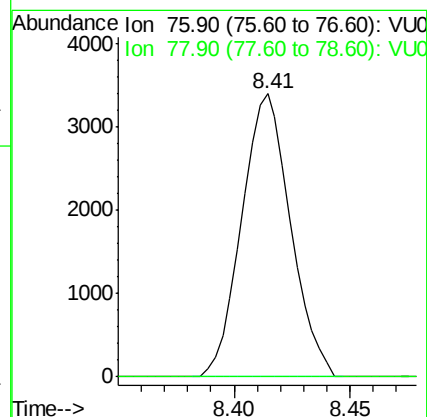
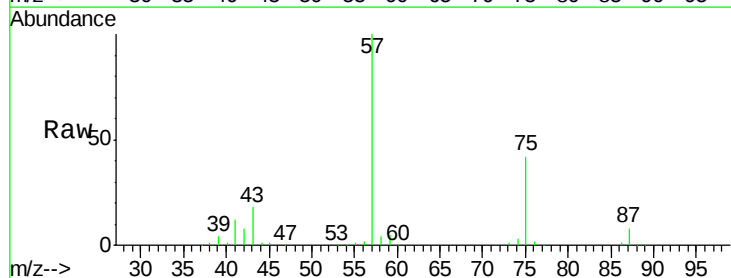
Acq: 09 Jan 2019 17:02

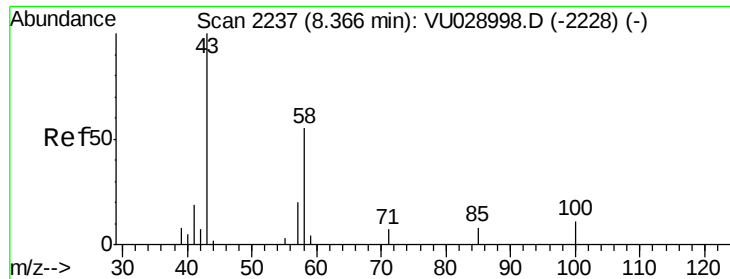
Tgt Ion: 76 Resp: 4975

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#

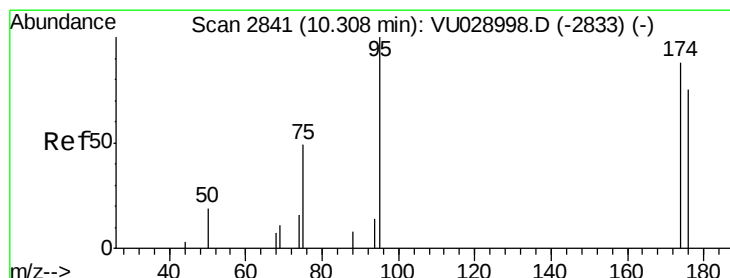
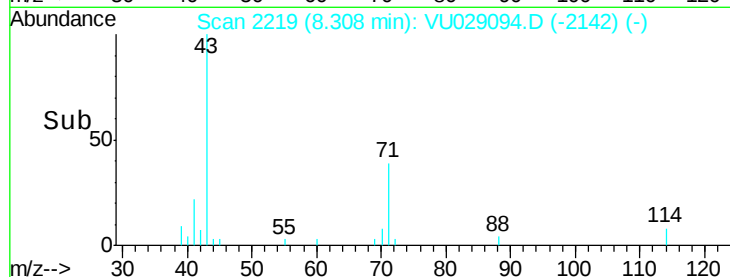
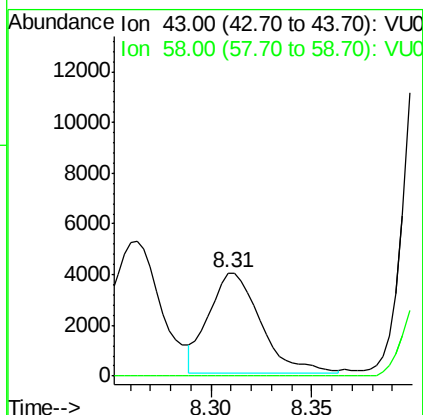
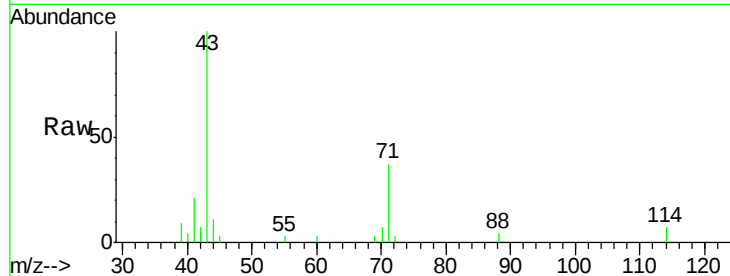




#59
2-Hexanone
Concen: 4.219 ug/l
RT: 8.31 min Scan# 2219
Delta R.T. -0.05 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

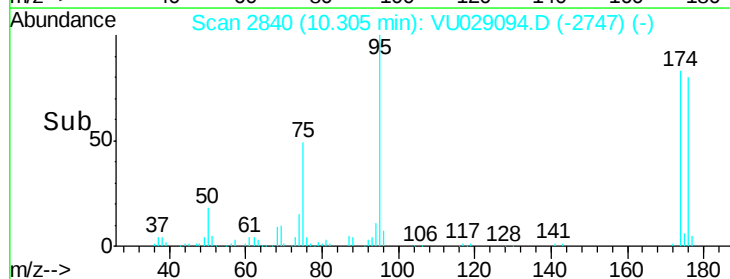
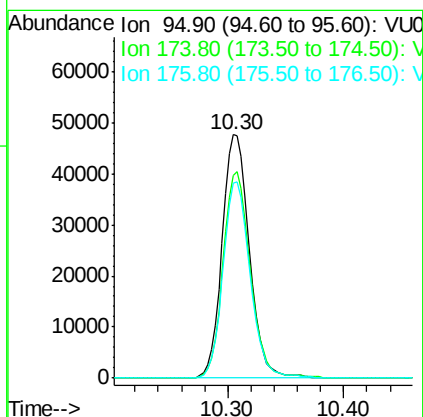
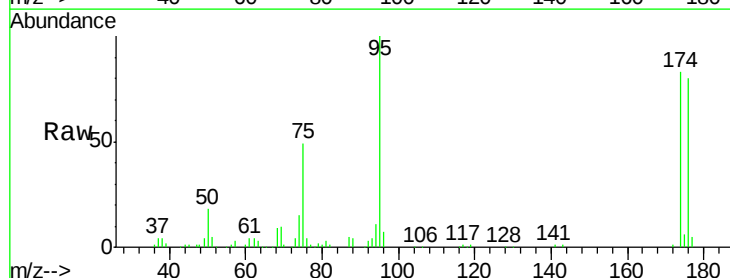
Instrument :
MSVOA_U
ClientSampleId :

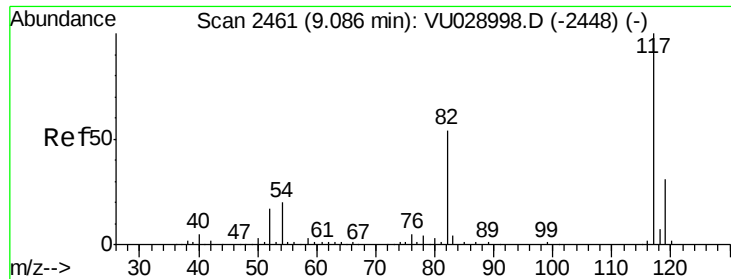
Tot Ion: 43 Resp: 7103
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 44.917 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

Tgt Ion: 95 Resp: 77350
Ion Ratio Lower Upper
95 100
174 84.8 0.0 170.6
176 80.2 0.0 165.0

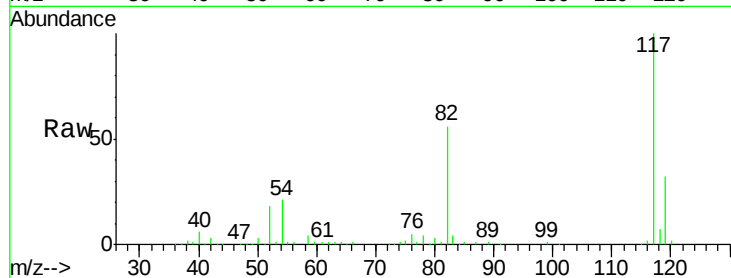




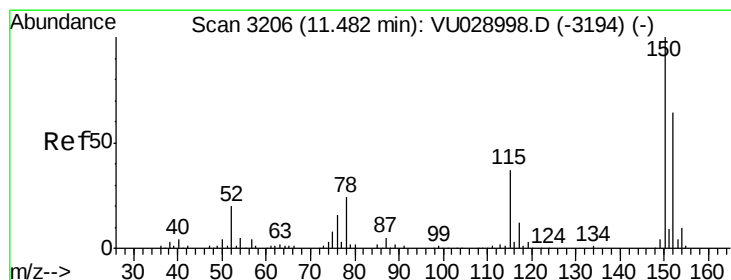
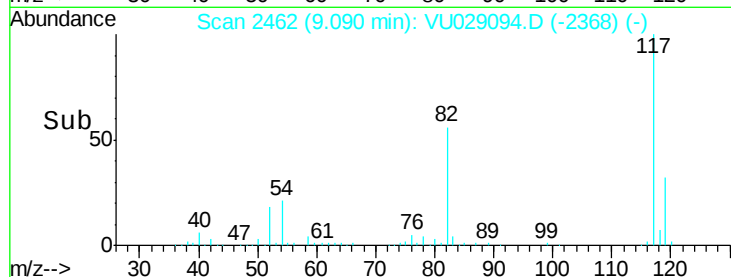
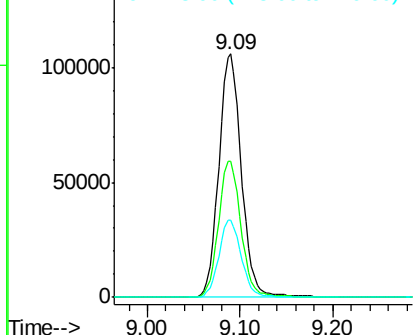
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 179362
Ion Ratio Lower Upper
117 100
82 56.1 43.9 65.9
119 31.8 26.0 39.0

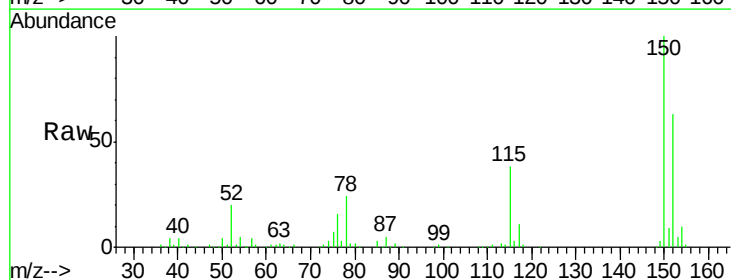


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

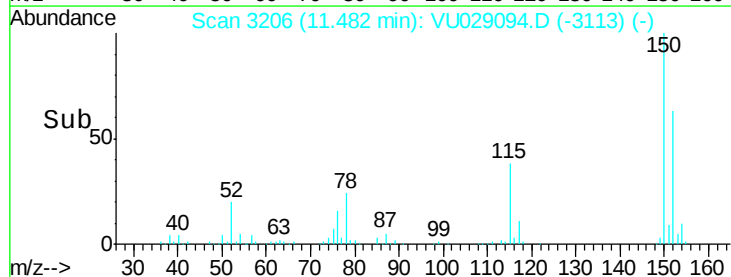
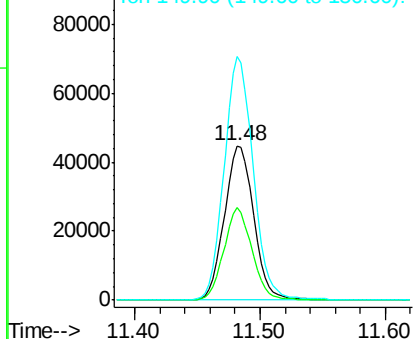


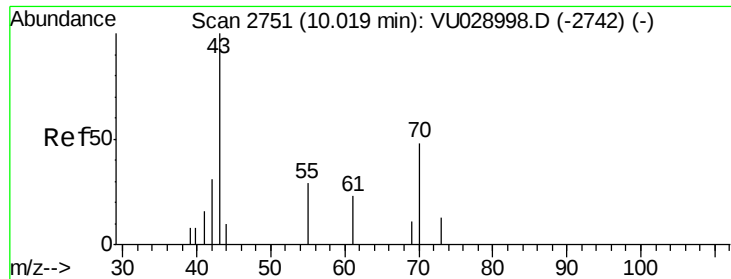
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029094.D
Acq: 09 Jan 2019 17:02

Tgt Ion:152 Resp: 72658
Ion Ratio Lower Upper
152 100
115 57.4 40.1 120.3
150 156.2 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-amvl acetate

Concen: 2.937 ug/l

RT: 9.76 min Scan# 2672

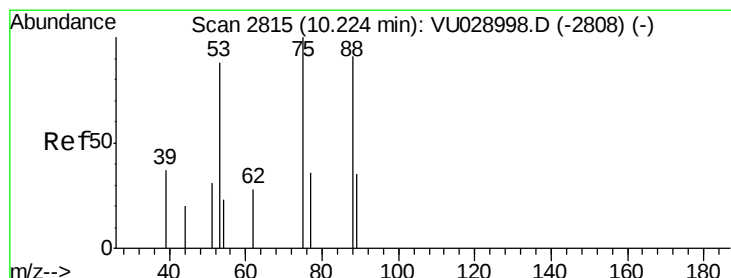
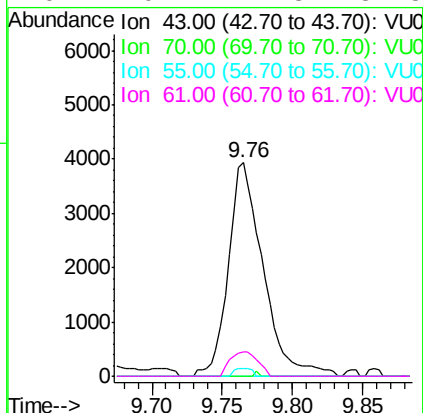
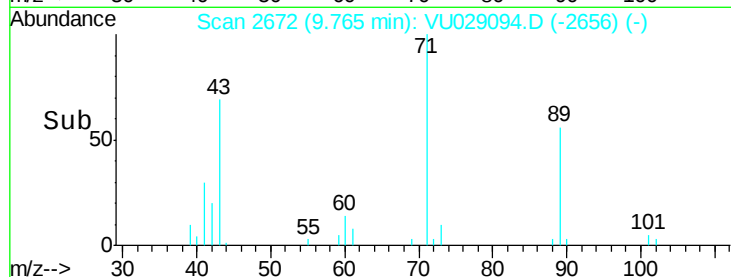
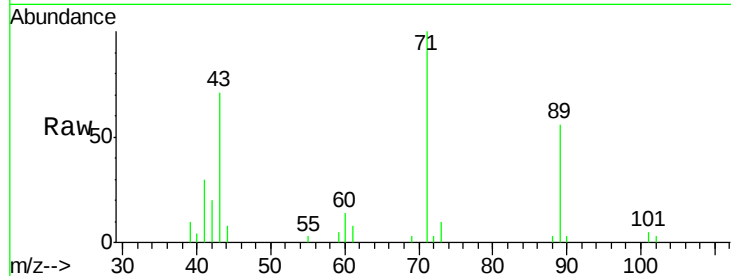
Delta R.T. -0.25 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	6806
Ion	Ratio	Lower	Upper
43	100		
70	0.3	36.3	54.5#
55	1.9	20.5	30.7#
61	9.2	21.8	32.8#



#76

1,2,3-Trichloropropane

Concen: 21.098 ug/l

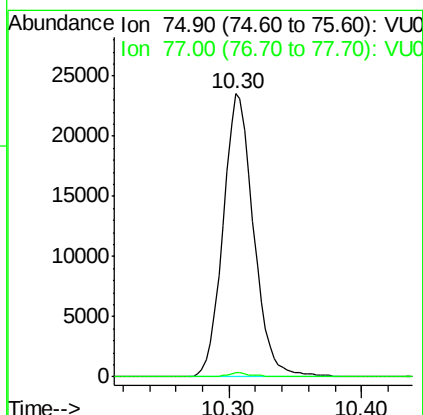
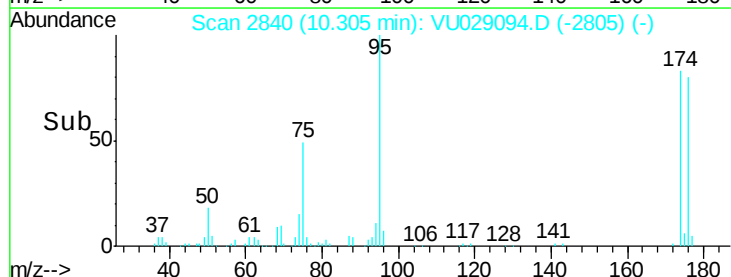
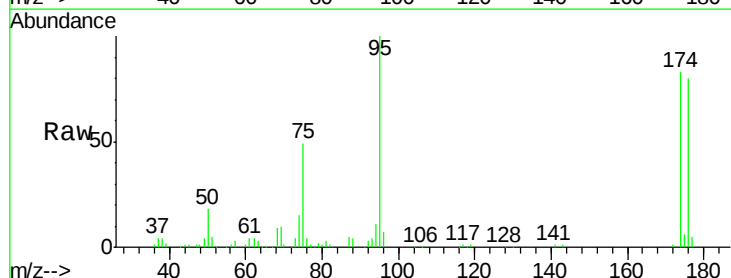
RT: 10.30 min Scan# 2840

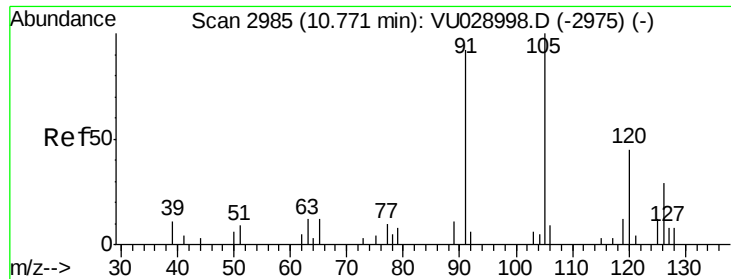
Delta R.T. -0.19 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

Tgt Ion:	75	Resp:	37559
Ion	Ratio	Lower	Upper
75	100		
77	1.1	20.9	62.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.552 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

Instrument :

MSVOA_U

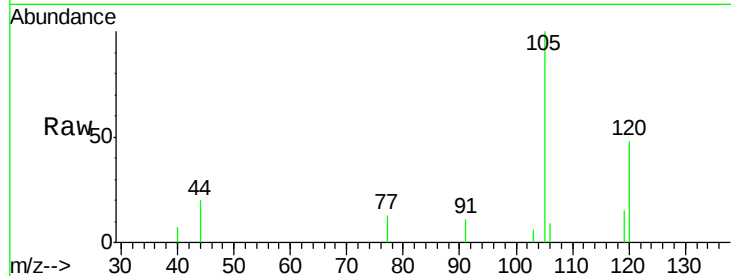
ClientSampled :

Tot Ion:105 Resp: 2481

Ion Ratio Lower Upper

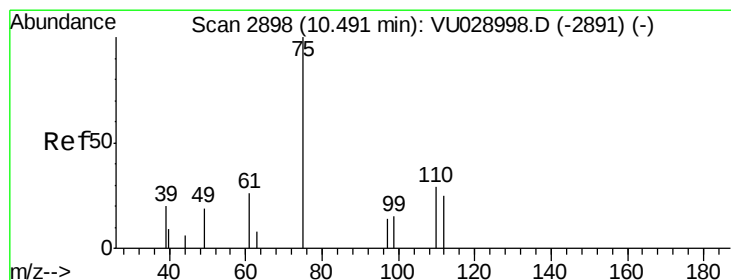
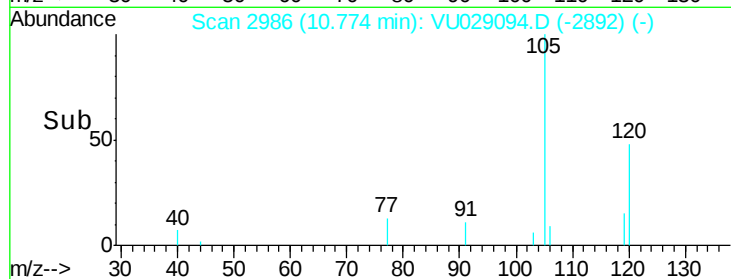
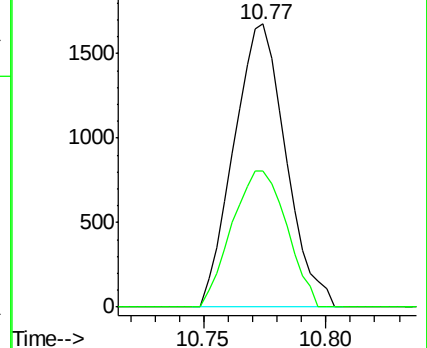
105 100

120 50.9 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 54.412 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029094.D

Acq: 09 Jan 2019 17:02

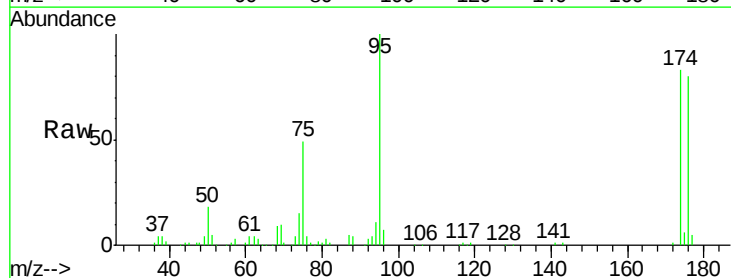
Tgt Ion: 75 Resp: 37559

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

