

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092818\
 Data File : VU027289.D
 Acq On : 28 Sep 2018 22:50
 Operator : MD/SY
 Sample : PB113306TB
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306TB

Quant Time: Sep 29 00:11:09 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	121021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	204873	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	193698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	90855	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	111750	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	
35) Dibromofluoromethane	4.88	113	79843	44.96	ug/l	0.00
Spiked Amount			Recovery	=	89.92%	
50) Toluene-d8	7.57	98	314701	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	
62) 4-Bromofluorobenzene	10.31	95	107008	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	

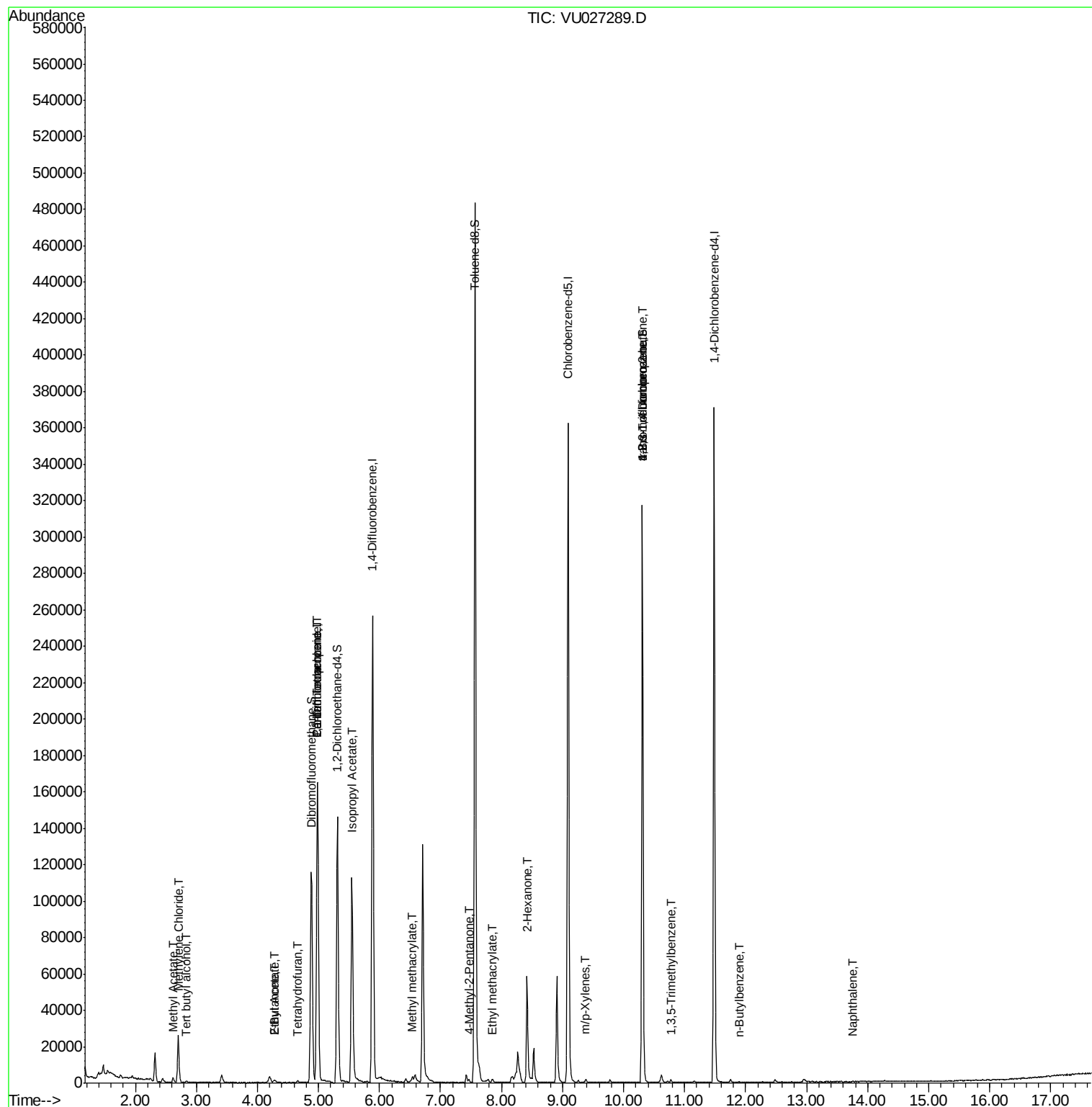
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.83	59	756	1.354	ug/l #	72
16) Acetone	2.32	43	17448	Below Cal		92
18) Methyl Acetate	2.62	43	3526	1.017	ug/l	95
20) Methylene Chloride	2.70	84	10465	4.797	ug/l	96
25) 2-Butanone	4.28	43	2994	1.463	ug/l	95
29) Tetrahydrofuran	4.66	42	925	0.747	ug/l #	71
36) 1,1-Dichloropropene	4.99	75	10712	3.918	ug/l #	50
37) Ethyl Acetate	4.28	43	2994	0.809	ug/l #	70
38) Carbon Tetrachloride	4.98	117	12095	4.648	ug/l #	17
43) Isopropyl Acetate	5.55	43	132266	24.502	ug/l	99
48) Methyl methacrylate	6.54	41	5345	2.794	ug/l #	22
51) 4-Methyl-2-Pentanone	7.47	43	1630	0.449	ug/l #	85
56) Ethyl methacrylate	7.84	69	181	2.243	ug/l #	1
59) 2-Hexanone	8.42	43	8571	3.016	ug/l #	57
68) m/p-Xylenes	9.38	106	720	1.708	ug/l	97
76) 1,2,3-Trichloropropane	10.31	75	55304	20.037	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	1158	0.203	ug/l	85
81) trans-1,4-Dichloro-2-buten	10.31	75	55304	64.121	ug/l #	100
89) n-Butylbenzene	11.90	91	95	2.407	ug/l #	52
95) Naphthalene	13.76	128	756	1.786	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027289.D

Acq: 28 Sep 2018 22:50

Instrument :

MSVOA_U

ClientSampleId :

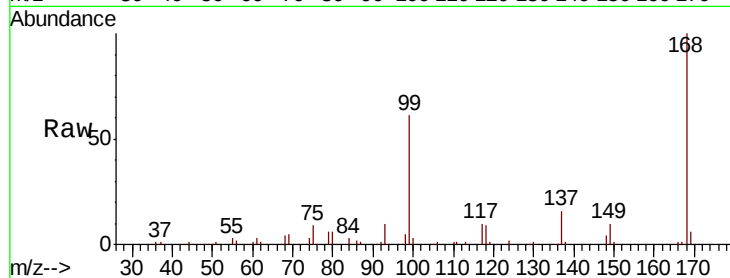
PB113306TB

Tgt Ion: 168 Resp: 121021

Ion Ratio Lower Upper

168 100

99 61.1 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

60000

50000

40000

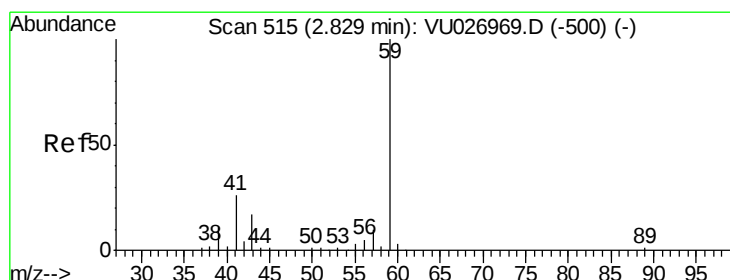
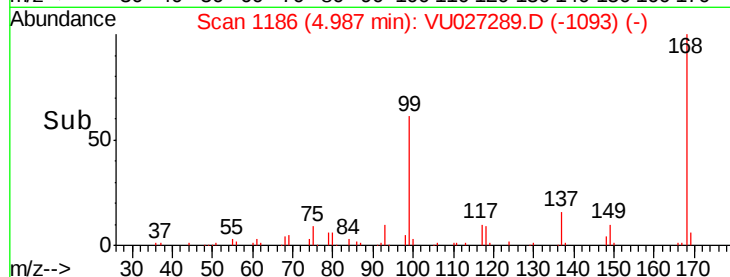
30000

20000

10000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.354 ug/l

RT: 2.83 min Scan# 516

Delta R.T. 0.00 min

Lab File: VU027289.D

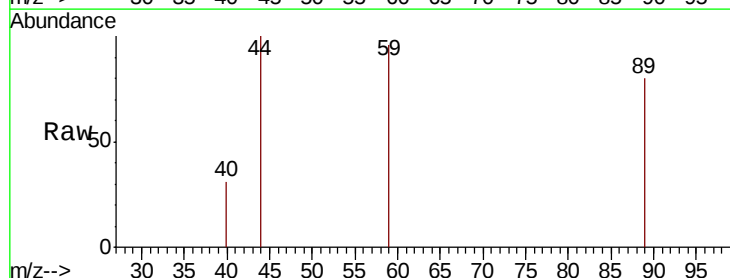
Acq: 28 Sep 2018 22:50

Tgt Ion: 59 Resp: 756

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU026969.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU026969.D (-500) (-)

2.83

400

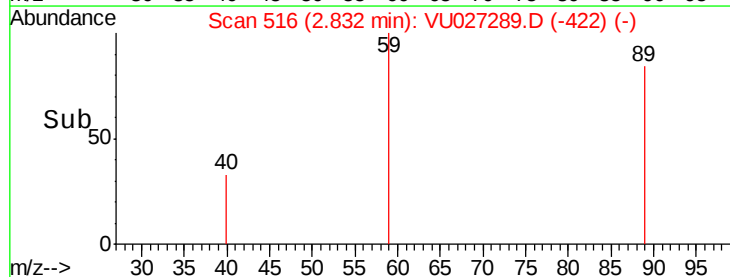
300

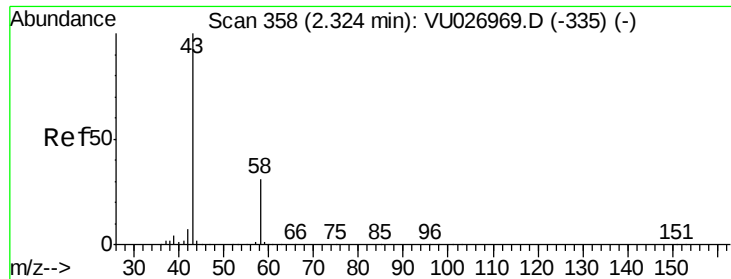
200

100

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU027289.D

Acq: 28 Sep 2018 22:50

Instrument :

MSVOA_U

ClientSampleId :

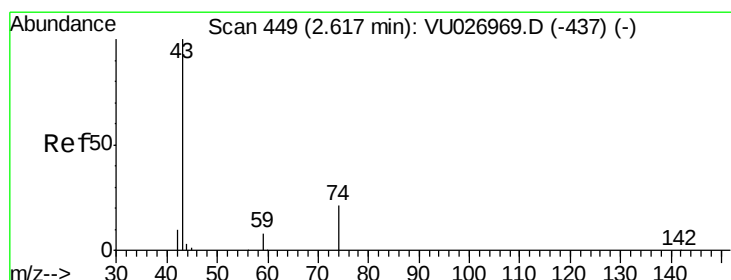
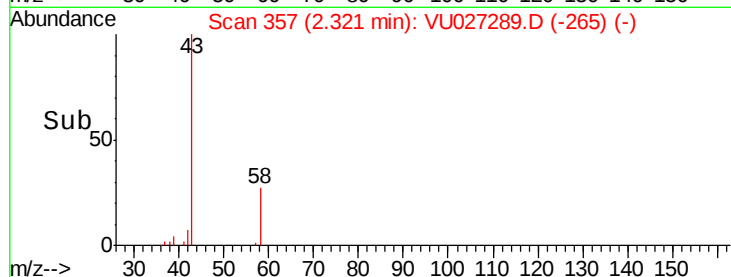
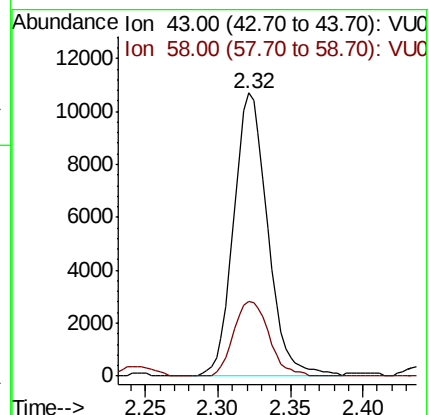
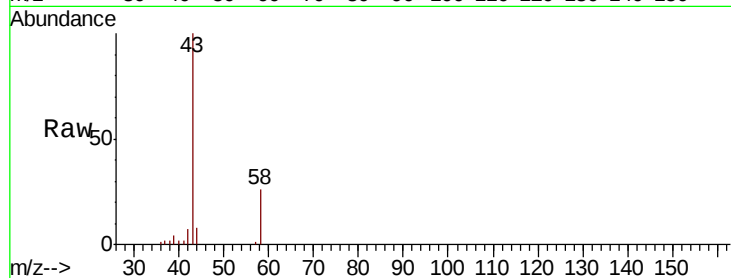
PB113306TB

Tgt Ion: 43 Resp: 17448

Ion Ratio Lower Upper

43 100

58 26.3 24.6 36.8



#18

Methyl Acetate

Concen: 1.017 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU027289.D

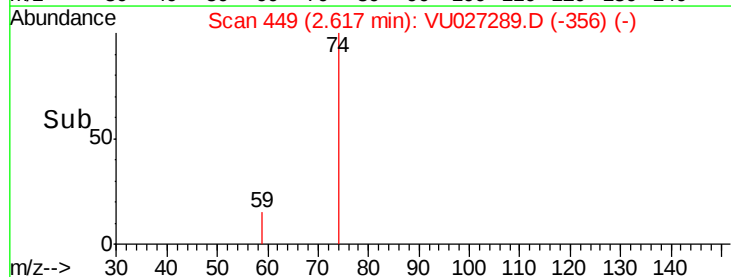
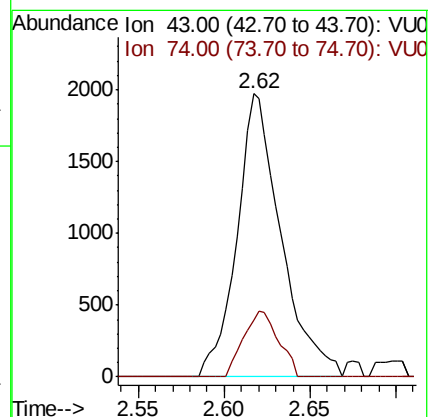
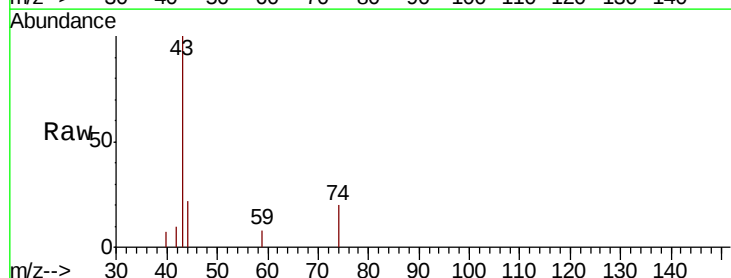
Acq: 28 Sep 2018 22:50

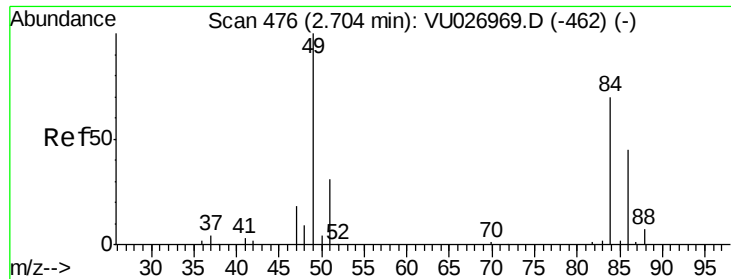
Tgt Ion: 43 Resp: 3526

Ion Ratio Lower Upper

43 100

74 18.4 16.6 25.0

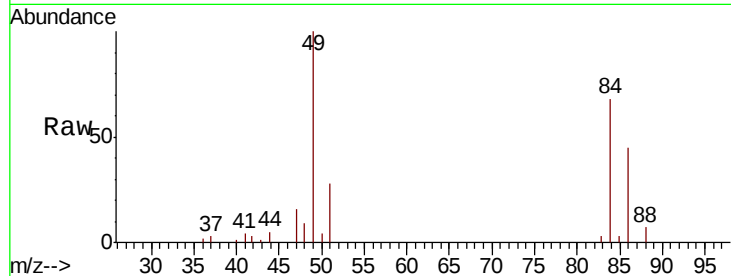




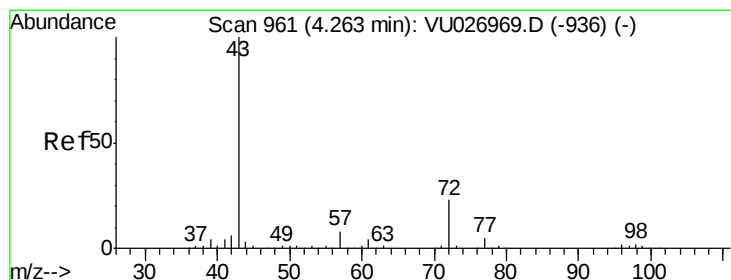
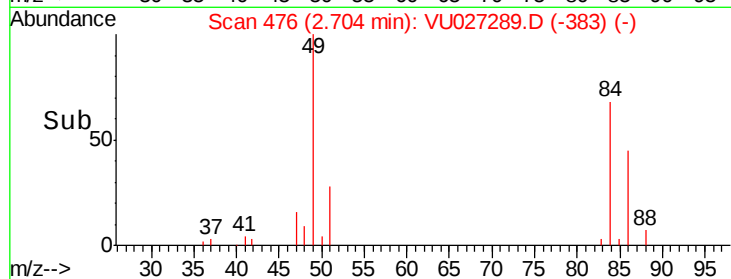
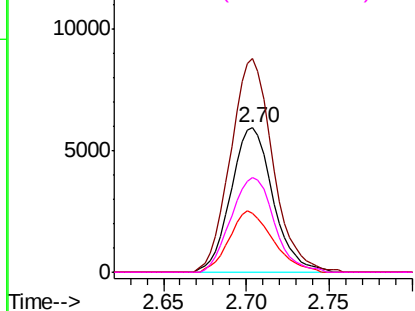
#20
Methylene Chloride
Concen: 4.797 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

Instrument :
MSVOA_U
ClientSampleId :
PB113306TB

Tgt Ion: 84 Resp: 10465
Ion Ratio Lower Upper
84 100
49 148.0 114.9 172.3
51 41.2 35.8 53.8
86 66.0 51.3 76.9

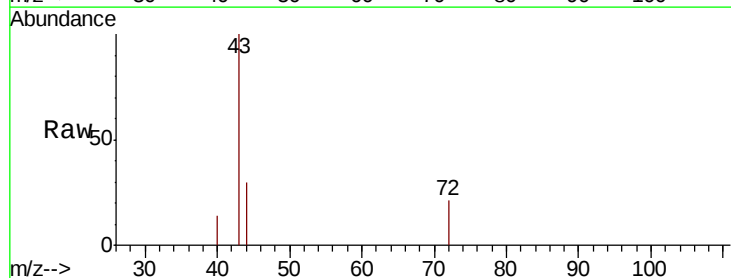


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

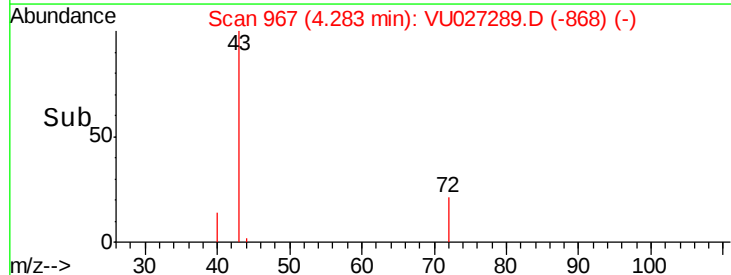
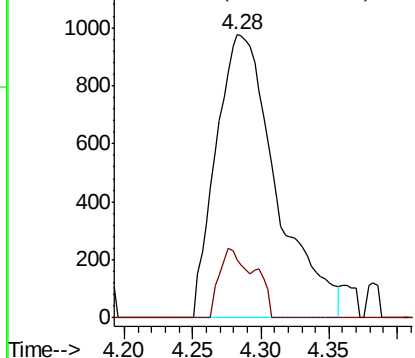


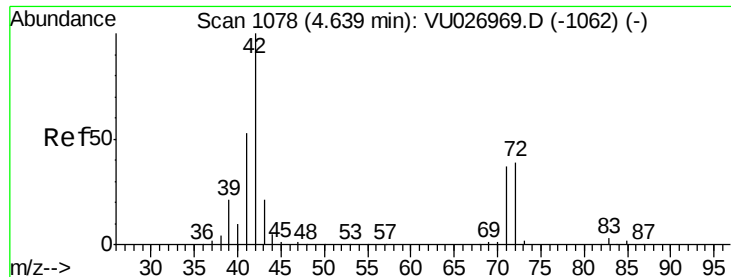
#25
2-Butanone
Concen: 1.463 ug/l
RT: 4.28 min Scan# 967
Delta R.T. 0.02 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

Tgt Ion: 43 Resp: 2994
Ion Ratio Lower Upper
43 100
72 20.5 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 72.00 (71.70 to 72.70): VU0





#29

Tetrahydrofuran

Concen: 0.747 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU027289.D

Acq: 28 Sep 2018 22:50

Instrument :

MSVOA_U

ClientSampleId :

PB113306TB

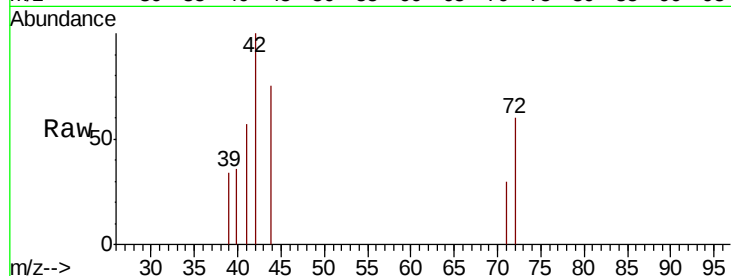
Tgt Ion: 42 Resp: 925

Ion Ratio Lower Upper

42 100

72 31.0 31.7 47.5#

71 10.4 29.6 44.4#



Abundance Ion 42.00 (41.70 to 42.70): VU0

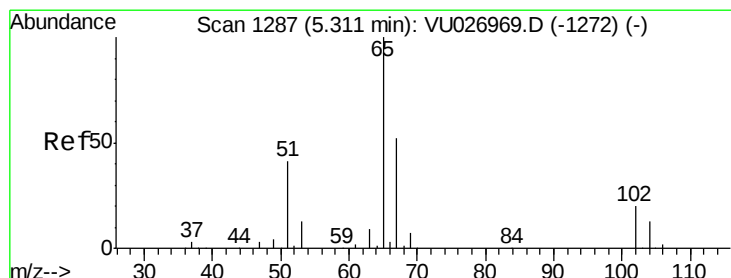
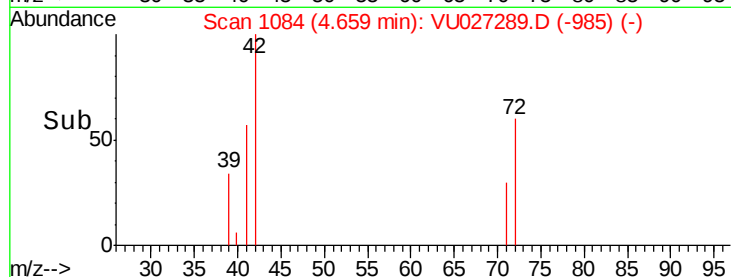
Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

4.66

4.60 4.65 4.70

Time-->



#33

1,2-Dichloroethane-d4

Concen: 45.879 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027289.D

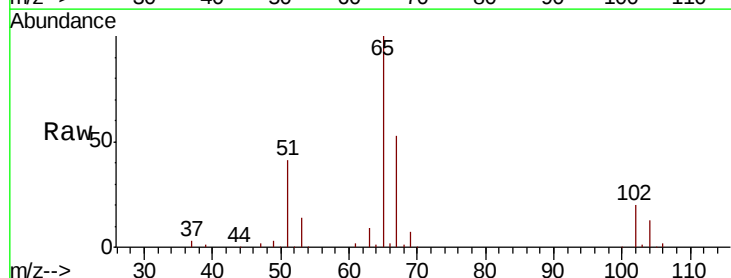
Acq: 28 Sep 2018 22:50

Tgt Ion: 65 Resp: 111750

Ion Ratio Lower Upper

65 100

67 52.8 0.0 105.6



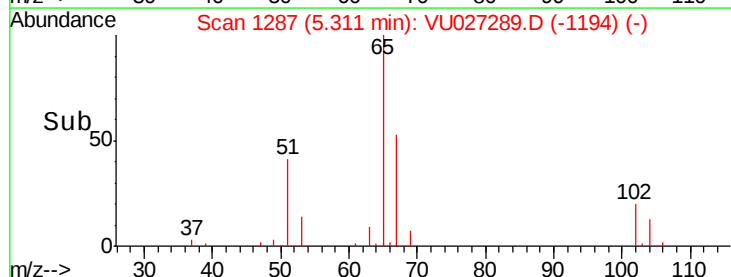
Abundance Ion 64.90 (64.60 to 65.60): VU0

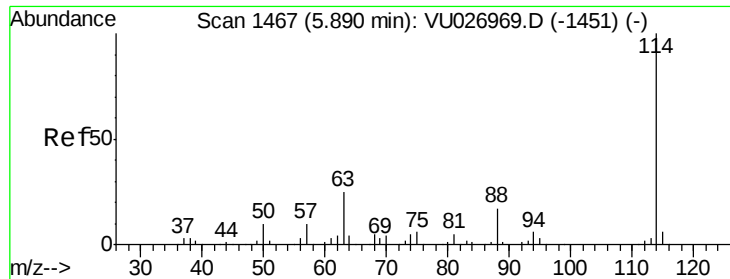
Ion 66.90 (66.60 to 67.60): VU0

5.31

5.20 5.30 5.40

Time-->

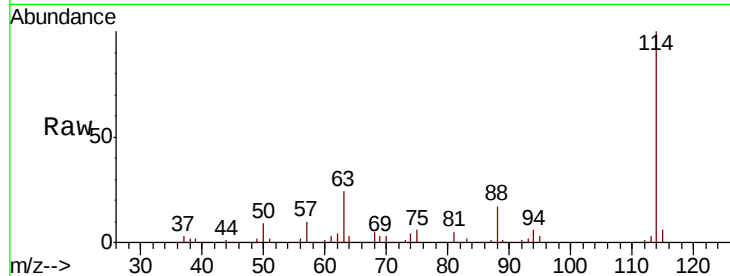




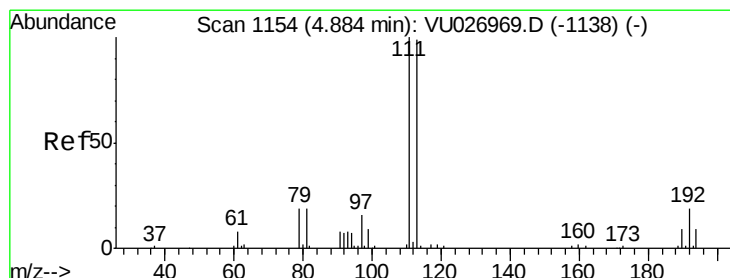
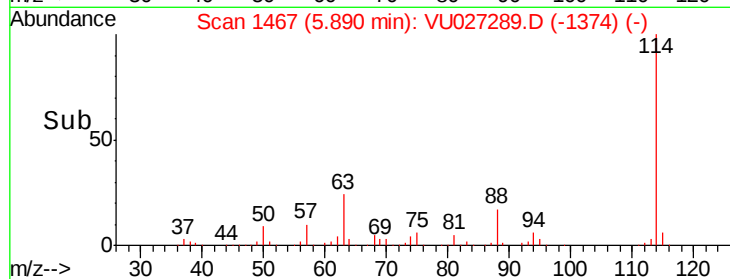
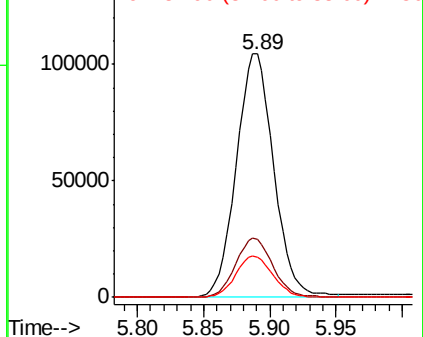
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1467
Delta R.T. 0.00 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

Instrument :
MSVOA_U
ClientSampled :
PB113306TB

Tgt Ion:114 Resp: 204873
Ion Ratio Lower Upper
114 100
63 23.7 0.0 49.2
88 16.6 0.0 33.8

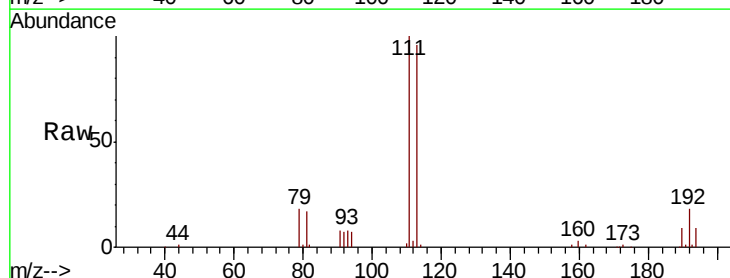


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

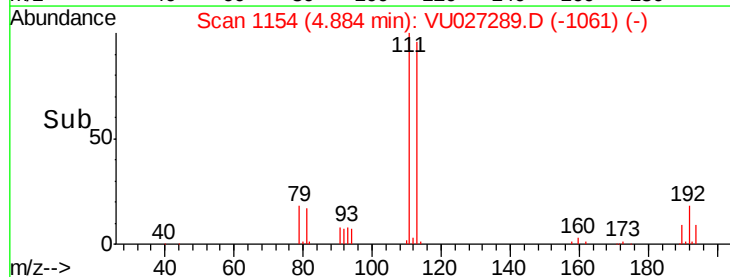
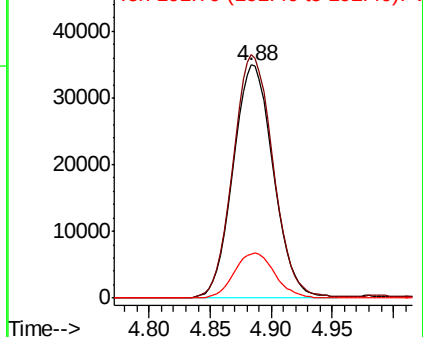


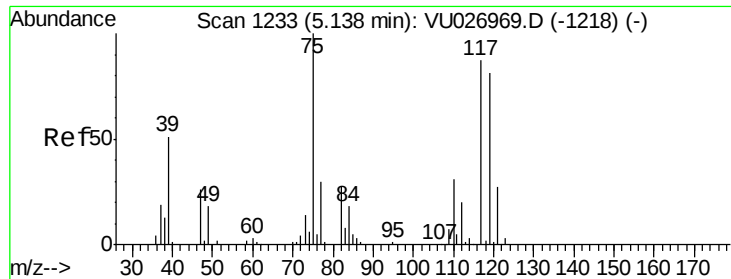
#35
Dibromofluoromethane
Concen: 44.961 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. 0.00 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

Tgt Ion:113 Resp: 79843
Ion Ratio Lower Upper
113 100
111 104.3 82.2 123.4
192 19.5 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

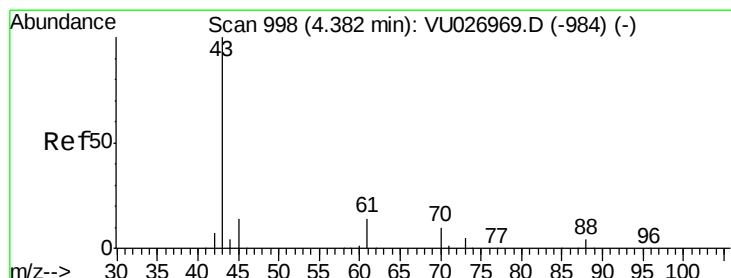
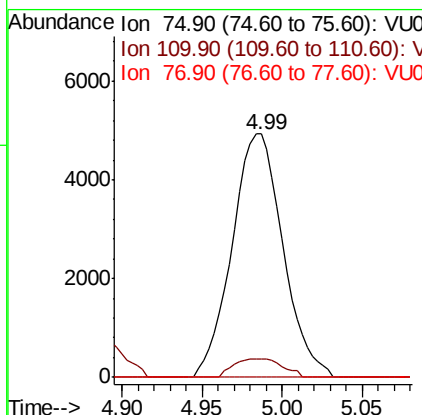
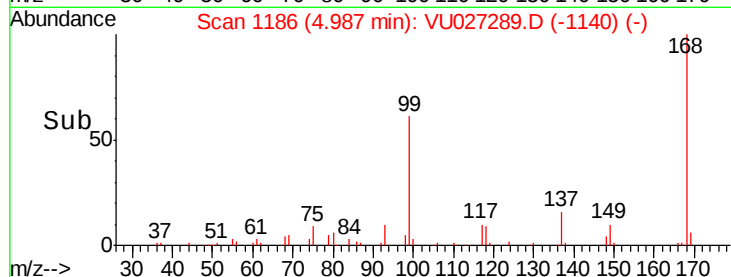
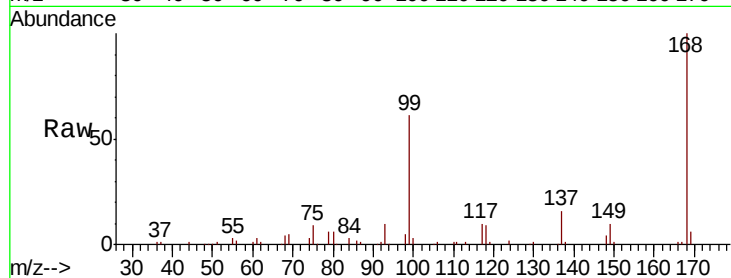




#36
 1,1-Dichloropropene
 Concen: 3.918 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027289.D
 Acq: 28 Sep 2018 22:50

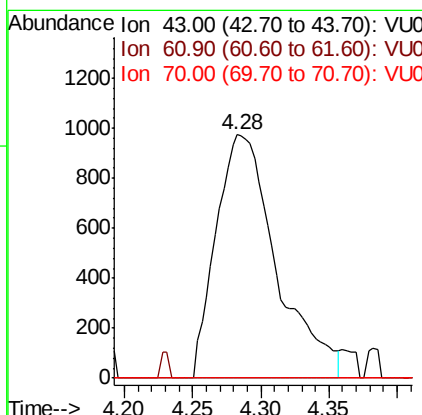
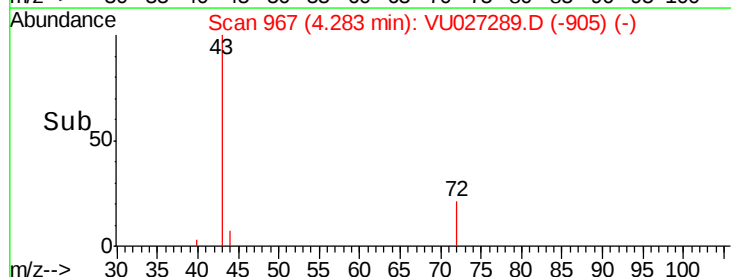
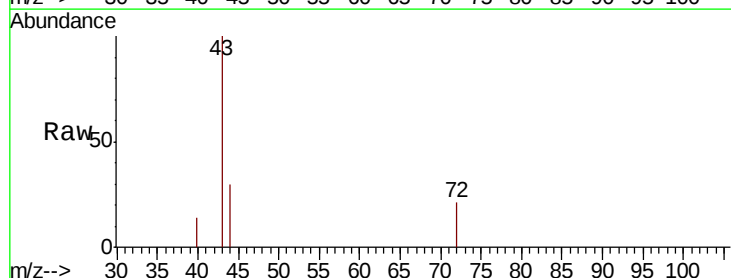
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306TB

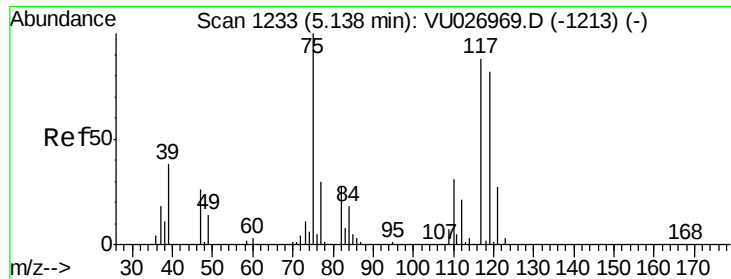
Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	16.1	48.2#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 0.809 ug/l
 RT: 4.28 min Scan# 967
 Delta R.T. -0.10 min
 Lab File: VU027289.D
 Acq: 28 Sep 2018 22:50

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.5	15.7#
70	0.0	7.4	11.0#





#38

Carbon Tetrachloride

Concen: 4.648 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027289.D

Acq: 28 Sep 2018 22:50

Instrument :

MSVOA_U

ClientSampleId :

PB113306TB

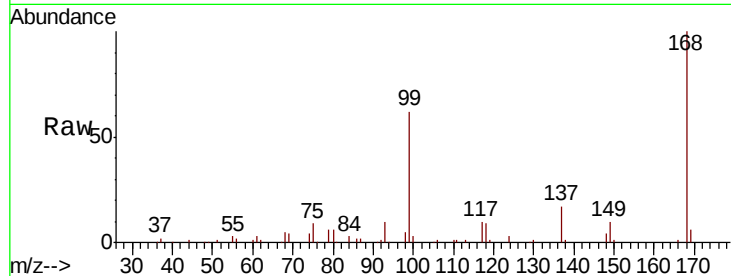
Tgt Ion:117 Resp: 12095

Ion Ratio Lower Upper

117 100

119 5.3 74.4 111.6#

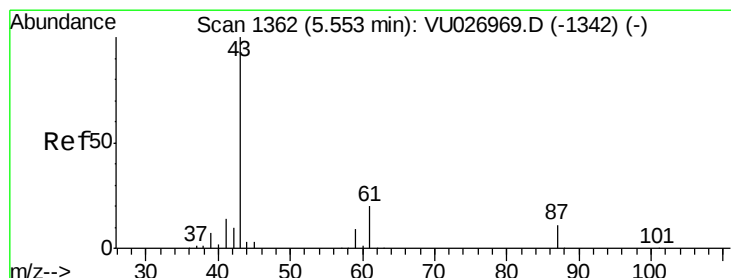
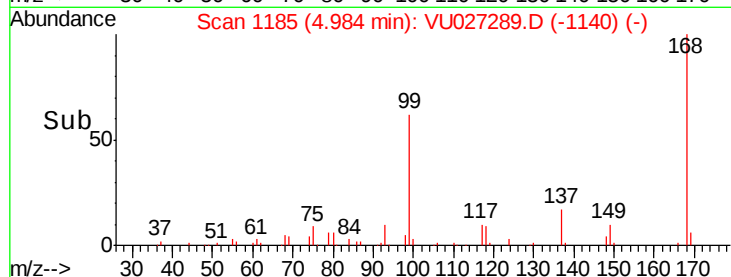
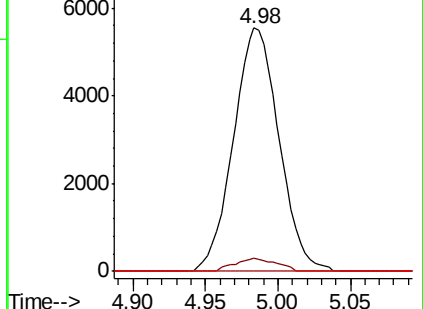
121 0.0 24.2 36.4#



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



#43

Isopropyl Acetate

Concen: 24.502 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU027289.D

Acq: 28 Sep 2018 22:50

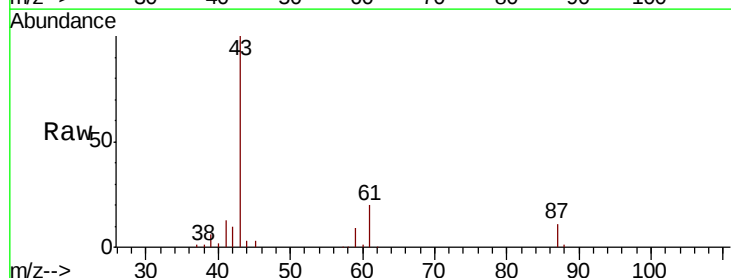
Tgt Ion: 43 Resp: 132266

Ion Ratio Lower Upper

43 100

61 19.3 15.7 23.5

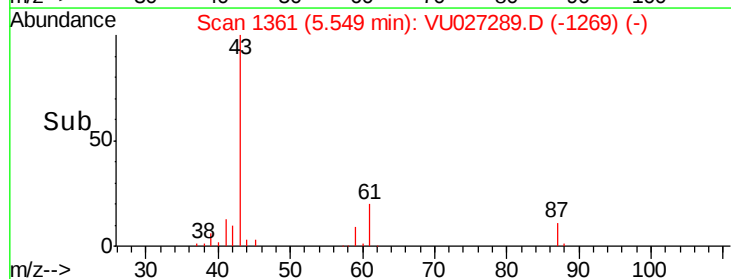
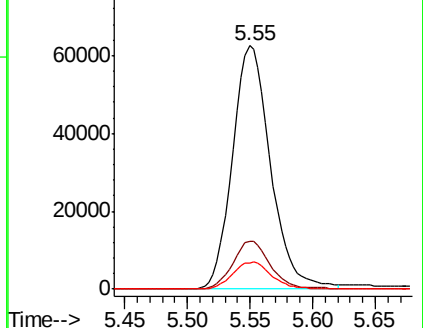
87 11.4 9.0 13.4

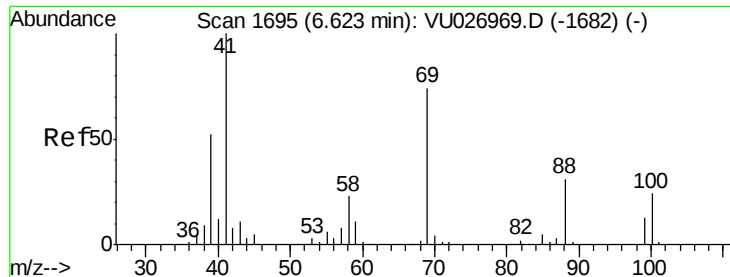


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

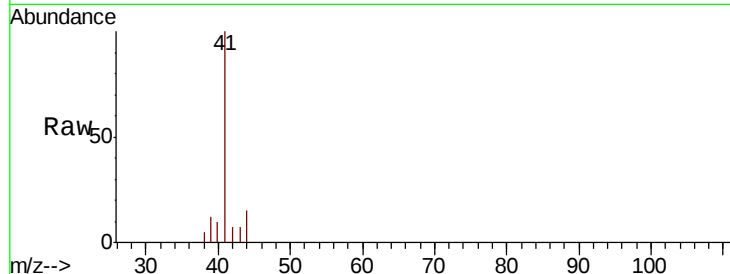




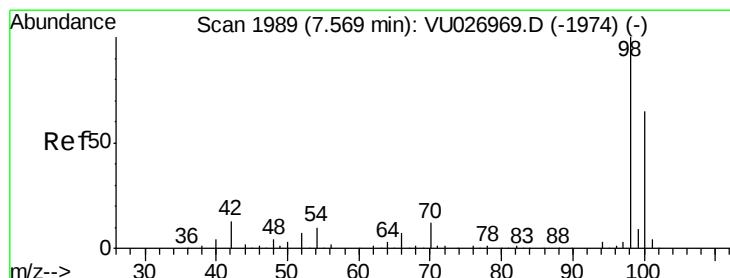
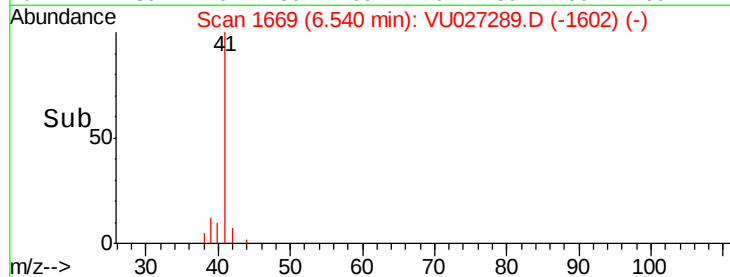
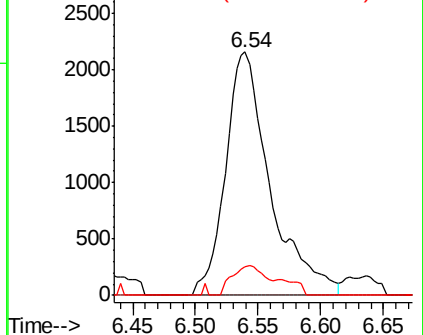
#48
Methyl methacrylate
Concen: 2.794 ug/l
RT: 6.54 min Scan# 1669
Delta R.T. -0.08 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

Instrument :
MSVOA_U
ClientSampleId :
PB113306TB

Tgt Ion: 41 Resp: 5345
Ion Ratio Lower Upper
41 100
69 0.0 60.6 90.8#
39 9.1 42.8 64.2#

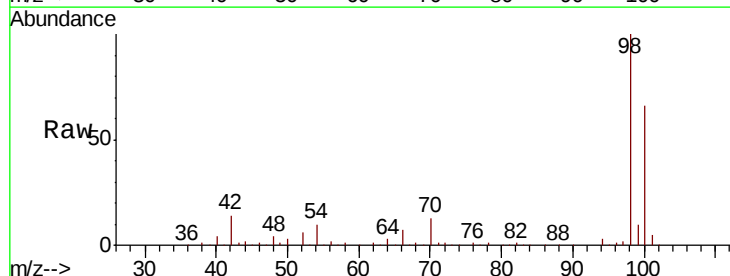


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

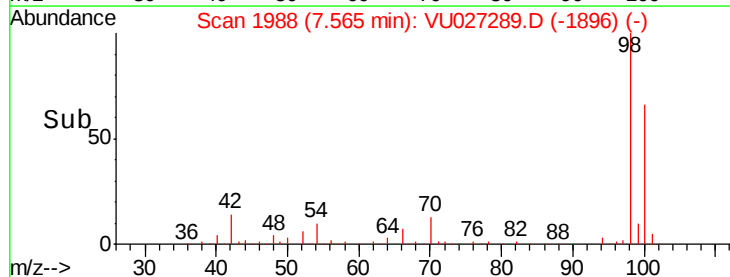
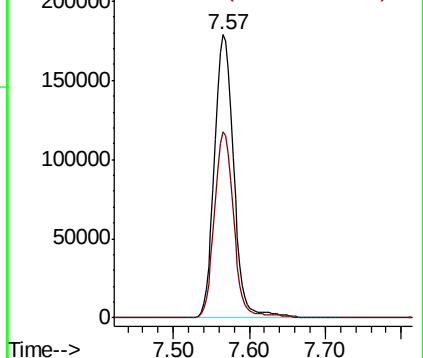


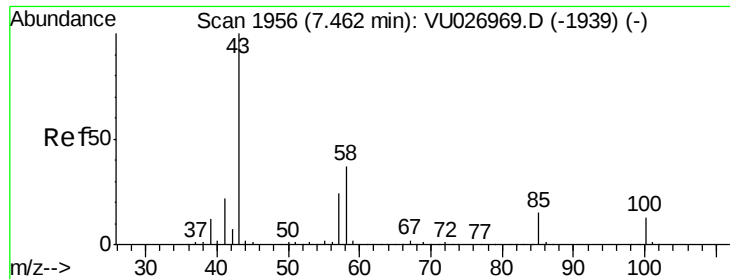
#50
Toluene-d8
Concen: 46.500 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

Tgt Ion: 98 Resp: 314701
Ion Ratio Lower Upper
98 100
100 65.5 52.1 78.1



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

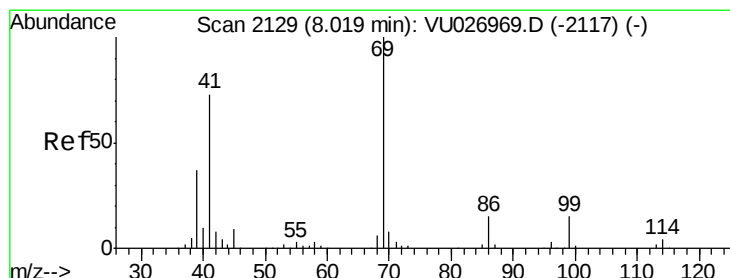
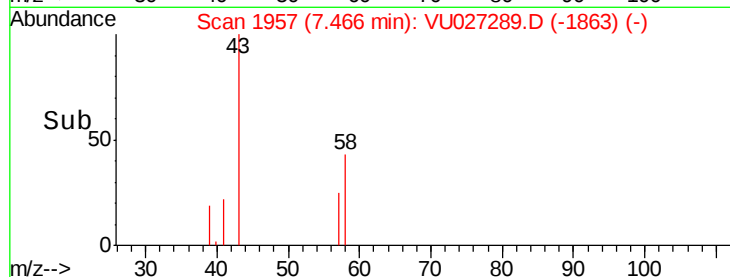
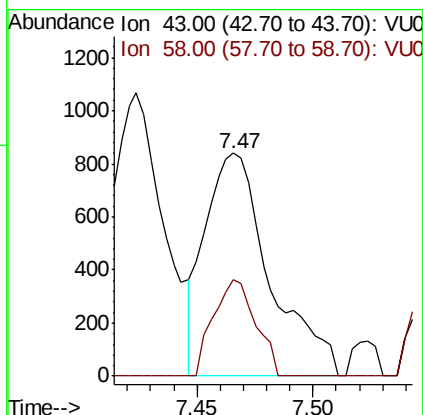
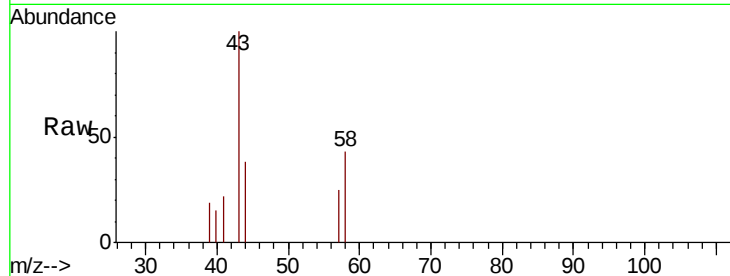




#51
4-Methyl-2-Pentanone
Concen: 0.449 ug/l
RT: 7.47 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

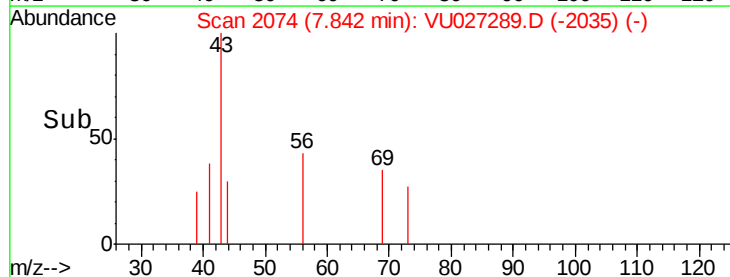
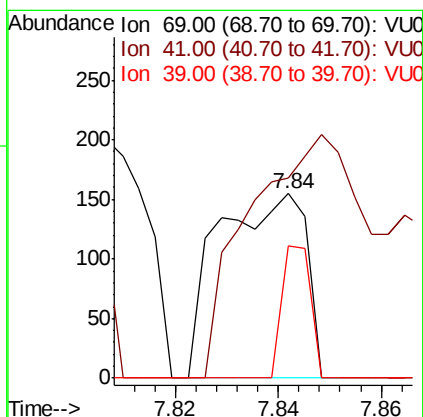
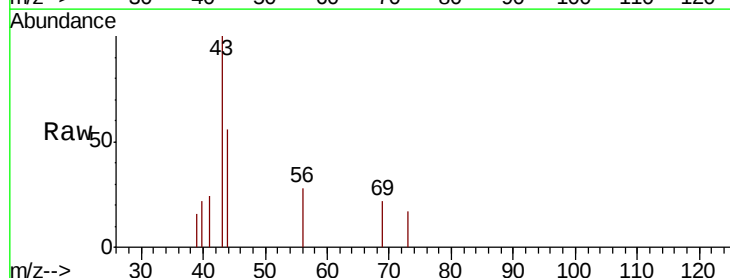
Instrument :
MSVOA_U
ClientSampleId :
PB113306TB

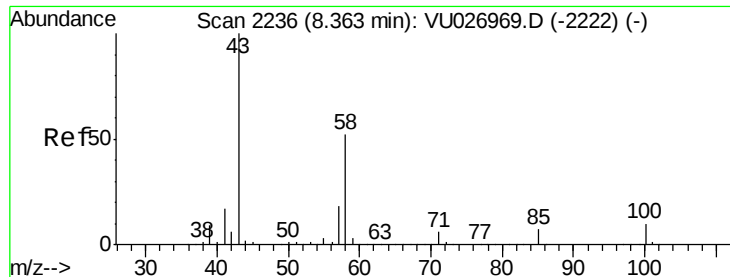
Tgt Ion: 43 Resp: 1630
Ion Ratio Lower Upper
43 100
58 28.2 29.8 44.6#



#56
Ethyl methacrylate
Concen: 2.243 ug/l
RT: 7.84 min Scan# 2074
Delta R.T. -0.18 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

Tgt Ion: 69 Resp: 181
Ion Ratio Lower Upper
69 100
41 208.8 59.0 88.4#
39 23.2 30.2 45.4#

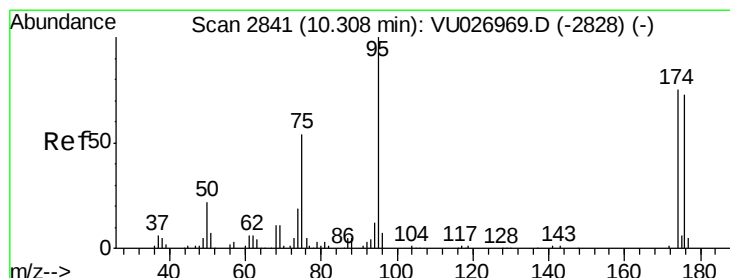
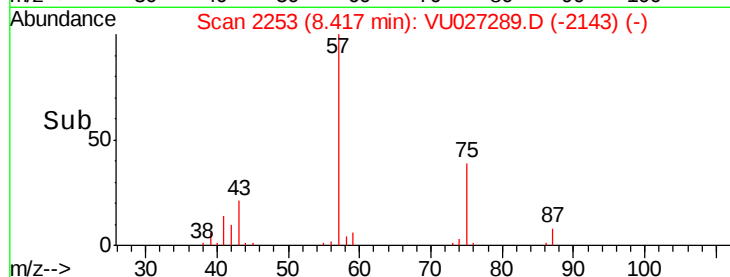
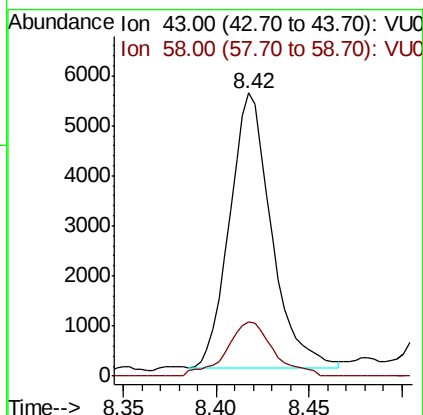
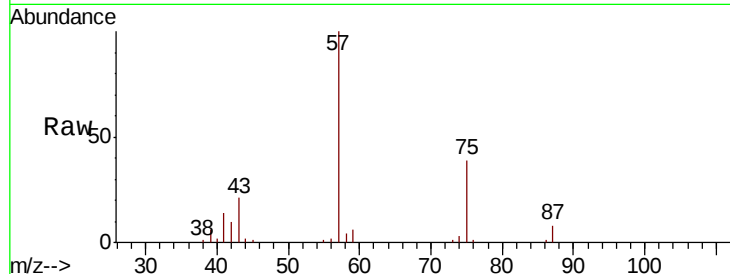




#59
2-Hexanone
Concen: 3.016 ug/l
RT: 8.42 min Scan# 2253
Delta R.T. 0.05 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

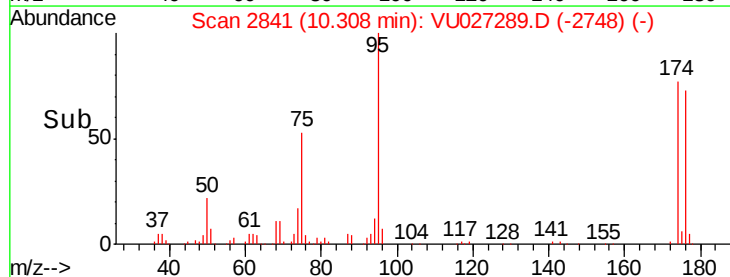
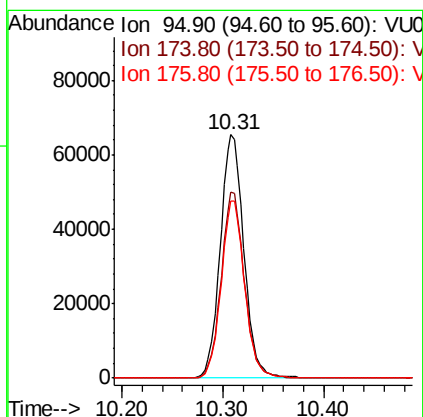
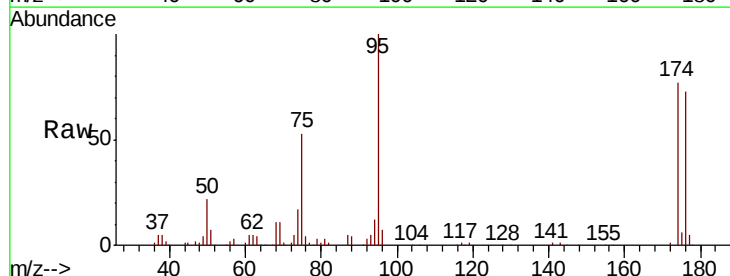
Instrument :
MSVOA_U
ClientSampleId :
PB113306TB

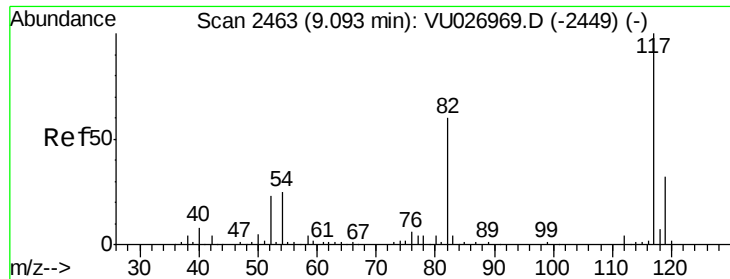
Tgt Ion: 43 Resp: 8571
Ion Ratio Lower Upper
43 100
58 22.2 26.1 78.2#



#62
4-Bromofluorobenzene
Concen: 46.080 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027289.D
Acq: 28 Sep 2018 22:50

Tgt Ion: 95 Resp: 107008
Ion Ratio Lower Upper
95 100
174 75.3 0.0 150.2
176 72.2 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: VU027289.D

Acq: 28 Sep 2018 22:50

Instrument :

MSVOA_U

ClientSampleId :

PB113306TB

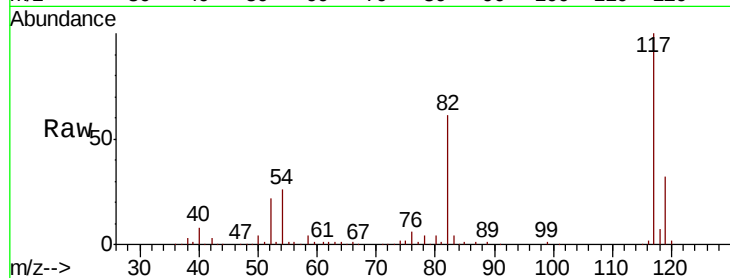
Tgt Ion:117 Resp: 193698

Ion Ratio Lower Upper

117 100

82 61.4 48.0 72.0

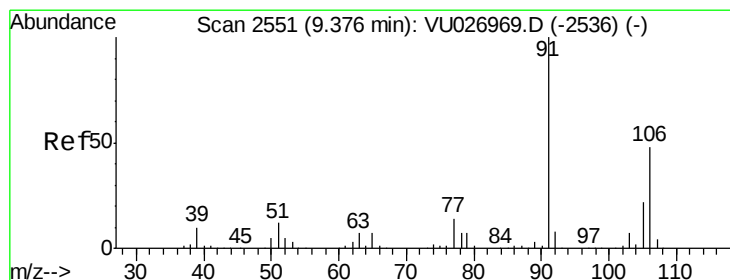
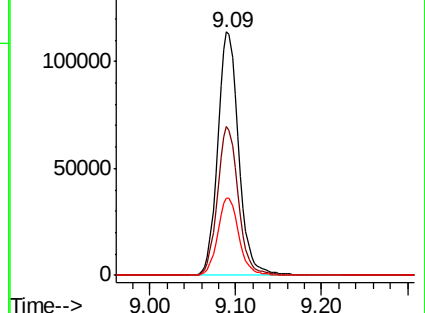
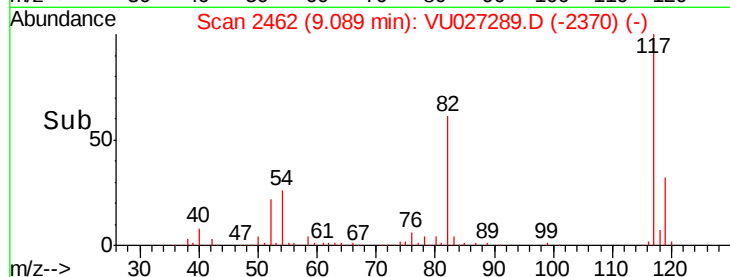
119 31.8 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V



#68

m/p-Xylenes

Concen: 1.708 ug/l

RT: 9.38 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VU027289.D

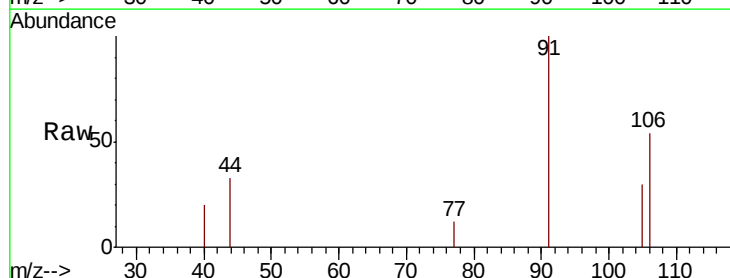
Acq: 28 Sep 2018 22:50

Tgt Ion:106 Resp: 720

Ion Ratio Lower Upper

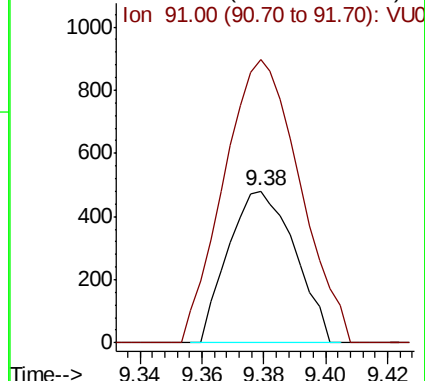
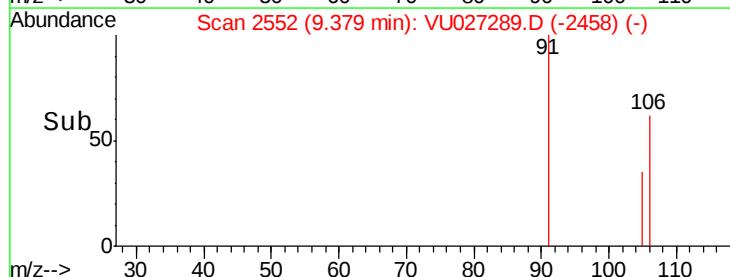
106 100

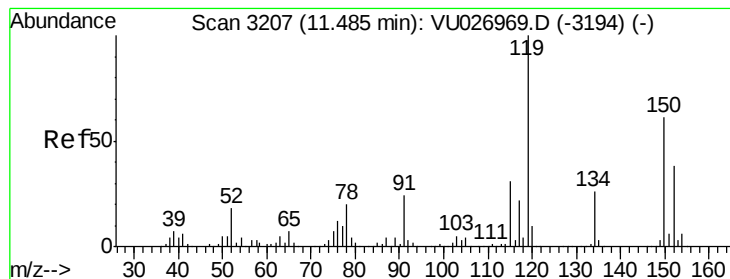
91 212.8 166.5 249.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027289.D

Acq: 28 Sep 2018 22:50

Instrument :

MSVOA_U

ClientSampleId :

PB113306TB

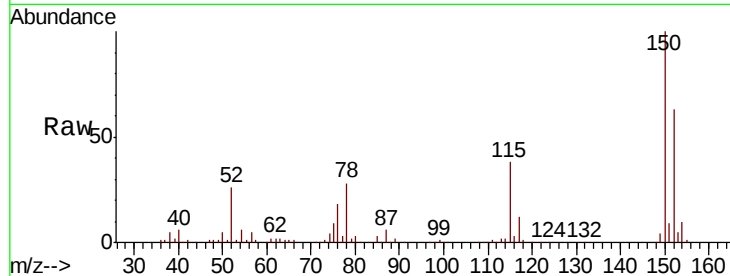
Tgt Ion:152 Resp: 90855

Ion Ratio Lower Upper

152 100

115 60.5 44.9 134.5

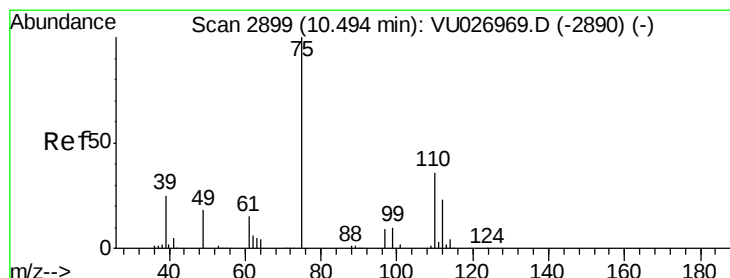
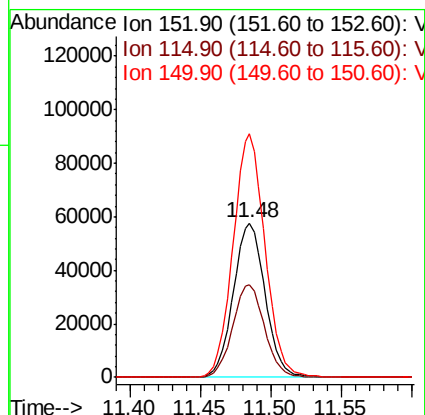
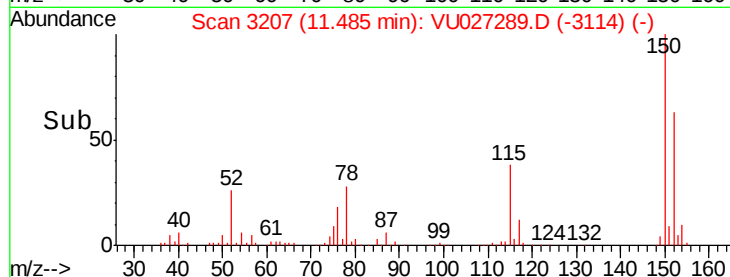
150 158.5 0.0 355.8



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: 20.037 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027289.D

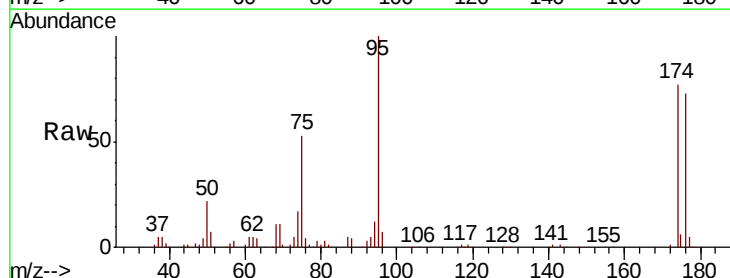
Acq: 28 Sep 2018 22:50

Tgt Ion: 75 Resp: 55304

Ion Ratio Lower Upper

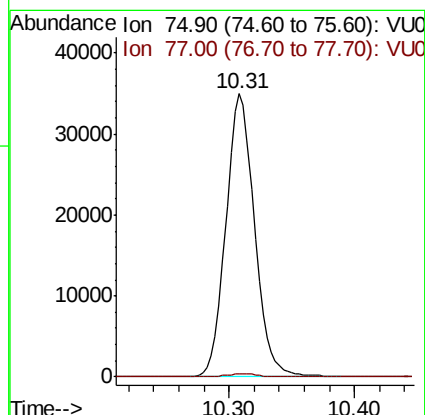
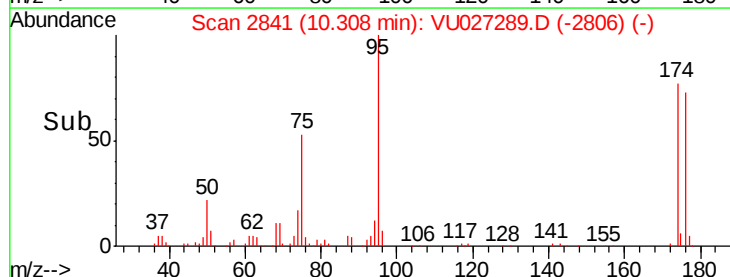
75 100

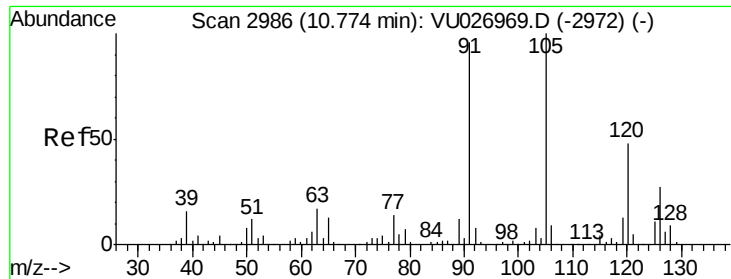
77 1.1 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

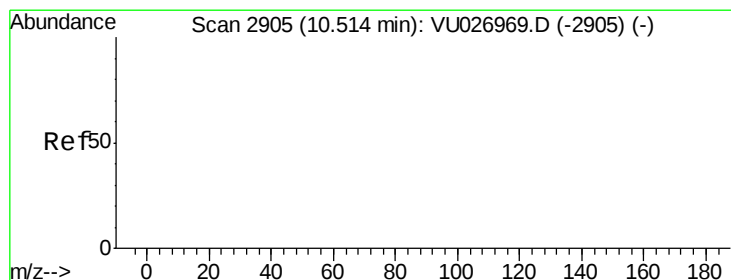
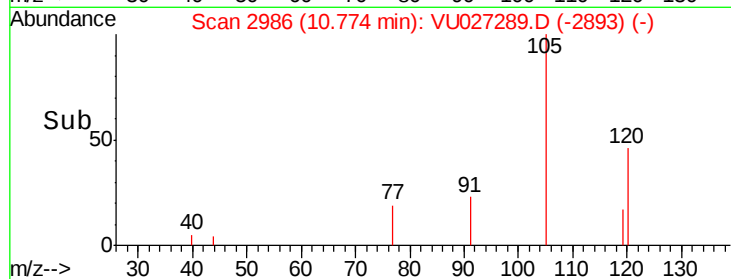
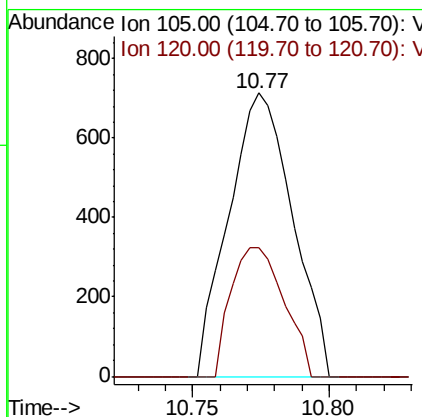
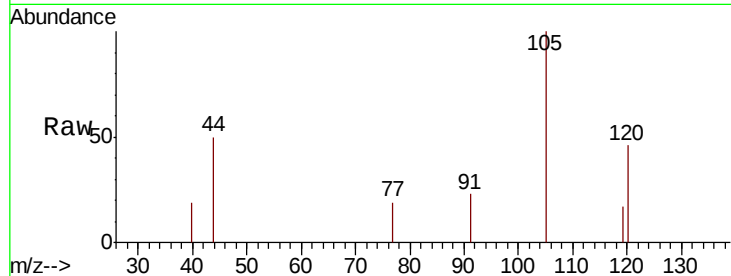




#80
 1,3,5-Trimethylbenzene
 Concen: 0.203 ug/l
 RT: 10.77 min Scan# 2986
 Delta R.T. 0.00 min
 Lab File: VU027289.D
 Acq: 28 Sep 2018 22:50

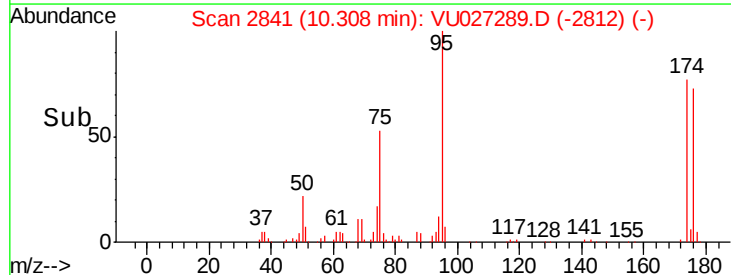
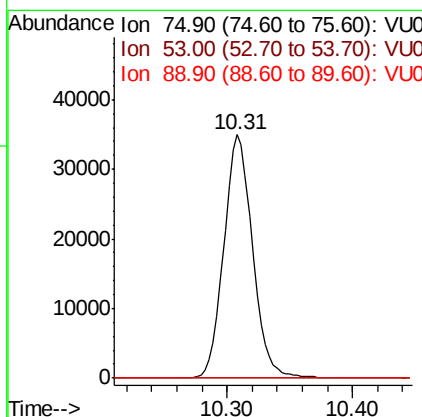
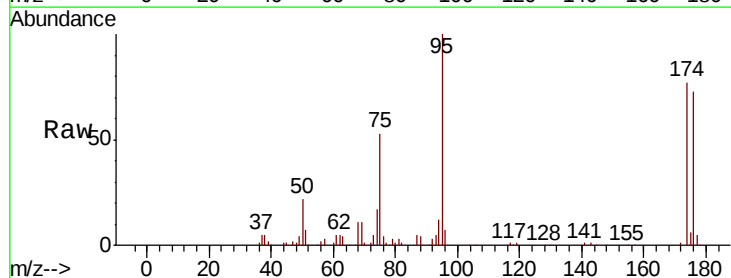
Instrument :
 MSVOA_U
 ClientSampleId :
 PB113306TB

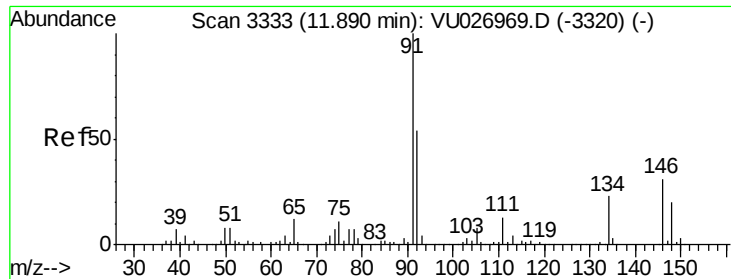
Tgt Ion: 105 Resp: 1158
 Ion Ratio Lower Upper
 105 100
 120 38.0 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.121 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.21 min
 Lab File: VU027289.D
 Acq: 28 Sep 2018 22:50

Tgt Ion: 75 Resp: 55304
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#89

n-Butylbenzene

Concen: 2.407 ug/l

RT: 11.90 min Scan# 3335

Delta R.T. 0.01 min

Lab File: VU027289.D

Acq: 28 Sep 2018 22:50

Instrument :

MSVOA_U

ClientSampleId :

PB113306TB

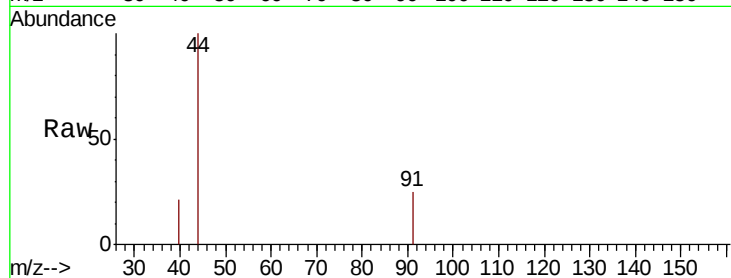
Tgt Ion: 91 Resp: 95

Ion Ratio Lower Upper

91 100

92 20.0 27.1 81.2#

134 0.0 11.7 35.0#

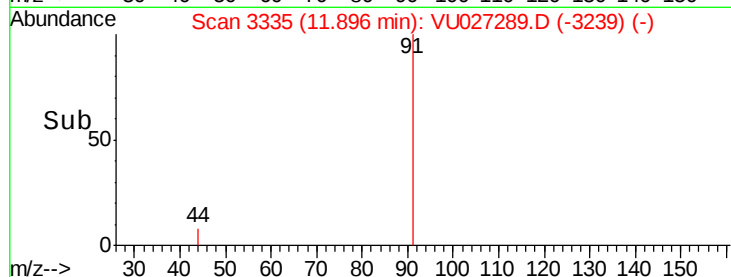


Abundance Ion 91.00 (90.70 to 91.70): VU026969.D (-3320) (-)

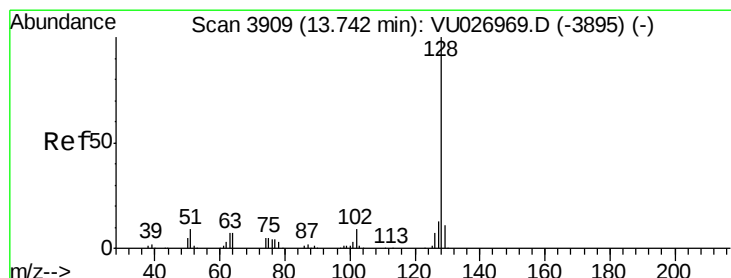
Ion 92.00 (91.70 to 92.70): VU026969.D (-3320) (-)

Ion 134.00 (133.70 to 134.70): VU026969.D (-3320) (-)

Time-->



Time-->



#95

Naphthalene

Concen: 1.786 ug/l

RT: 13.76 min Scan# 3914

Delta R.T. 0.02 min

Lab File: VU027289.D

Acq: 28 Sep 2018 22:50

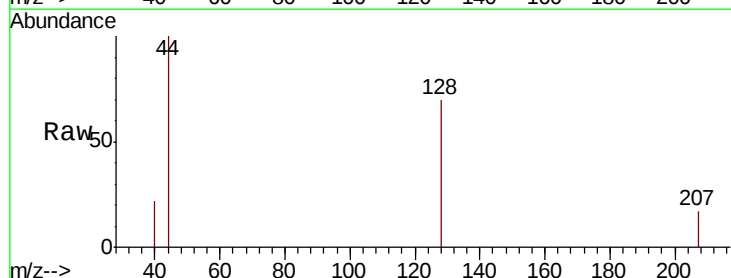
Tgt Ion: 128 Resp: 756

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#

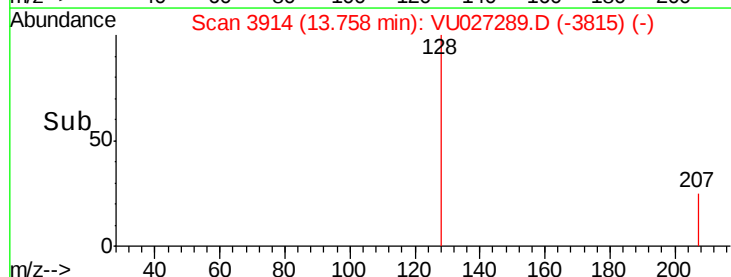


Abundance Ion 128.00 (127.70 to 128.70): VU026969.D (-3895) (-)

Ion 127.00 (126.70 to 127.70): VU026969.D (-3895) (-)

Ion 129.00 (128.70 to 129.70): VU026969.D (-3895) (-)

Time-->



Time-->