

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071218\
 Data File : VU025355.D
 Acq On : 12 Jul 2018 21:35
 Operator : MD/SY
 Sample : PB110983ZHE#01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB110983ZHE#01

Quant Time: Jul 13 01:14:41 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	187216	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	292869	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	273391	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	140975	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	146352	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	
35) Dibromofluoromethane	4.89	113	113241	45.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.68%	
50) Toluene-d8	7.57	98	418692	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
62) 4-Bromofluorobenzene	10.31	95	152030	44.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.26%	

Target Compounds

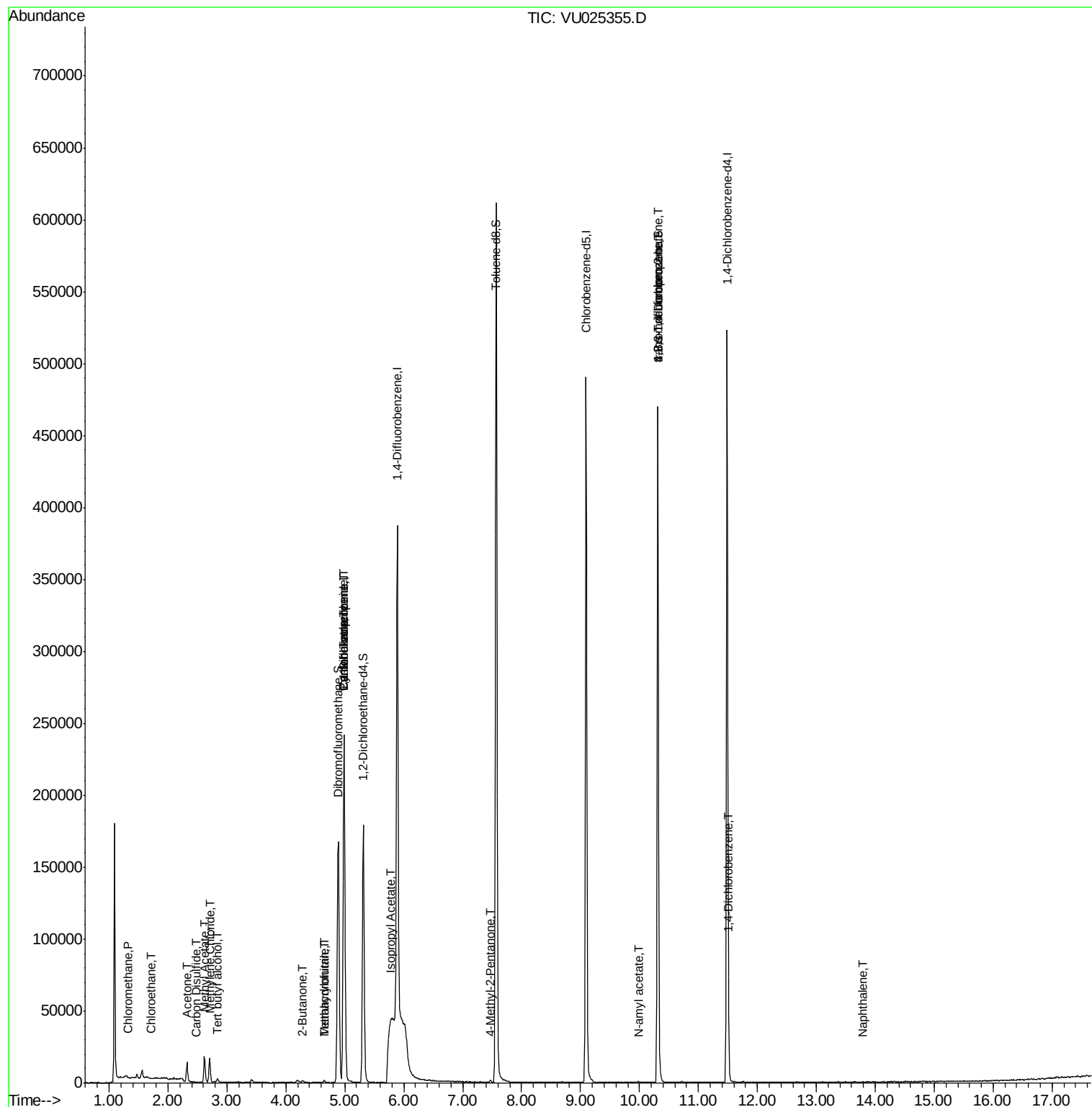
						Qvalue
3) Chloromethane	1.33	50	337	0.74	ug/l #	42
5) Bromomethane	1.64	94	75	Below Cal	#	76
6) Chloroethane	1.71	64	41	0.32	ug/l #	43
11) Tert butyl alcohol	2.84	59	1493	2.35	ug/l #	73
16) Acetone	2.32	43	13891	14.04	ug/l	98
17) Carbon Disulfide	2.48	76	156	1.96	ug/l #	74
18) Methyl Acetate	2.62	43	22373	7.51	ug/l	97
20) Methylene Chloride	2.71	84	7481	3.97	ug/l	94
25) 2-Butanone	4.28	43	1615	0.80	ug/l #	87
29) Tetrahydrofuran	4.65	42	1222	1.01	ug/l #	61
31) Cyclohexane	4.98	56	3693	1.73	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	14022	4.31	ug/l #	50
38) Carbon Tetrachloride	4.99	117	17936	5.12	ug/l #	17
41) Methacrylonitrile	4.64	41	475	0.24	ug/l #	48
43) Isopropyl Acetate	5.79	43	82902	14.26	ug/l #	61
51) 4-Methyl-2-Pentanone	7.47	43	1051	0.28	ug/l #	85
74) N-amyl acetate	9.99	43	466	1.37	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	80451	28.04	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	80451	71.63	ug/l #	100
88) 1,4-Dichlorobenzene	11.52	146	43	1.50	ug/l #	1
95) Naphthalene	13.78	128	19	2.41	ug/l #	69

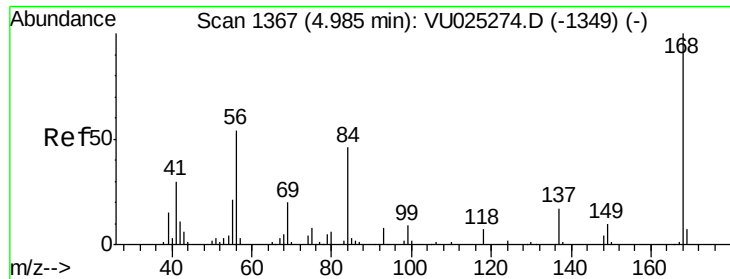
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 13 01:14:41 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Instrument :

MSVOA_U

ClientSampleId :

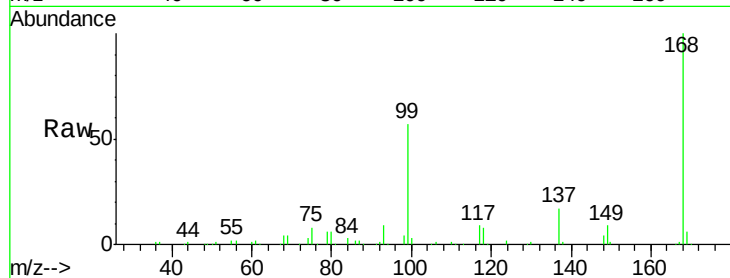
PB110983ZHE#01

Tot Ion:168 Resp: 187216

Ion Ratio Lower Upper

168 100

99 56.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

80000

60000

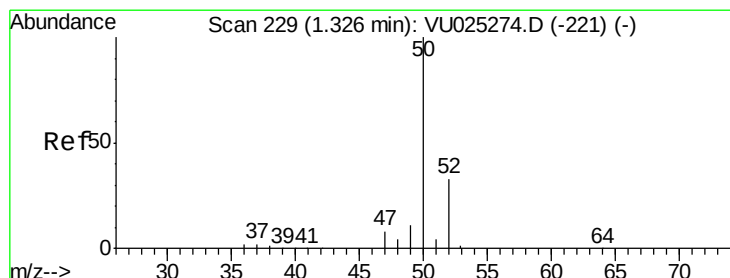
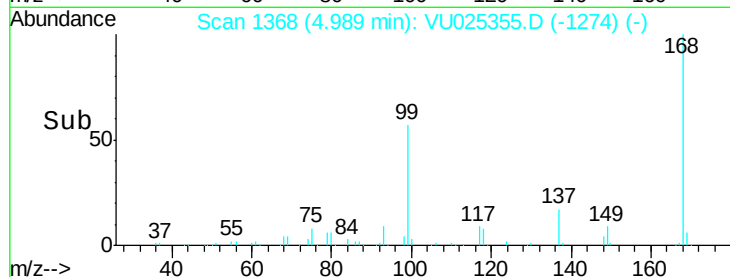
40000

20000

0

Time-->

4.90 5.00 5.10



#3

Chloromethane

Concen: 0.74 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025355.D

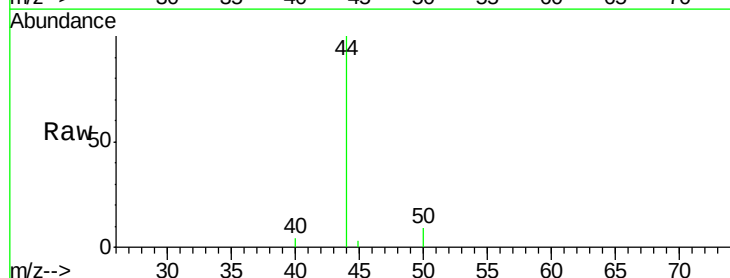
Acq: 12 Jul 2018 21:35

Tgt Ion: 50 Resp: 337

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025274.D (-221) (-)

1.33

300

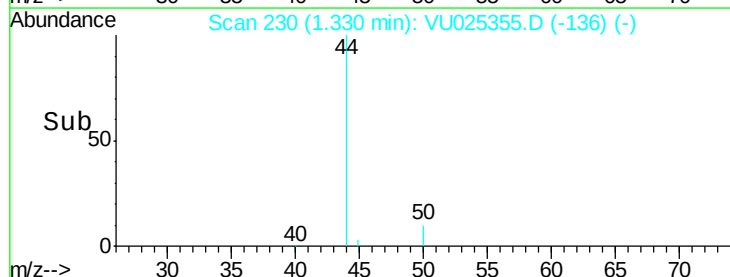
200

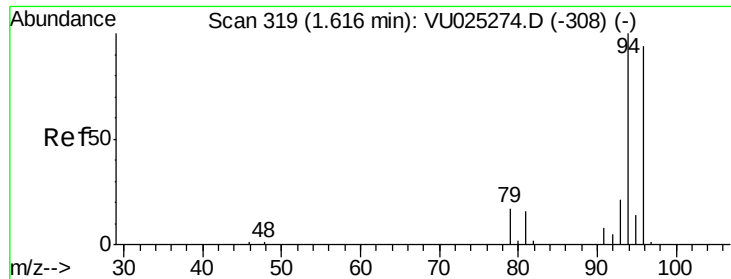
100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 327

Delta R.T. 0.03 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Instrument :

MSVOA_U

ClientSampleId :

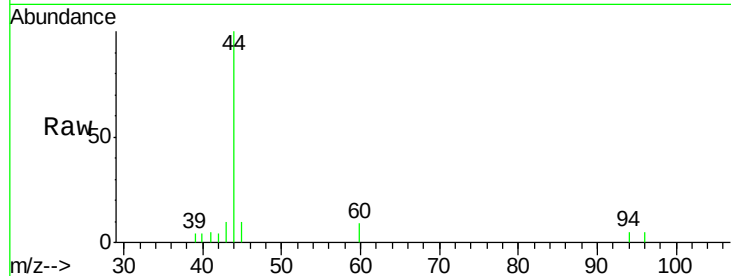
PB110983ZHE#01

Tot Ion: 94 Resp: 75

Ion Ratio Lower Upper

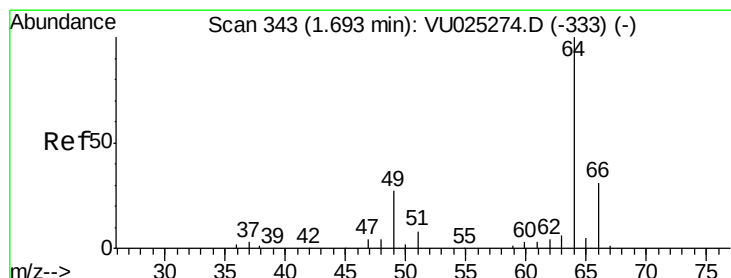
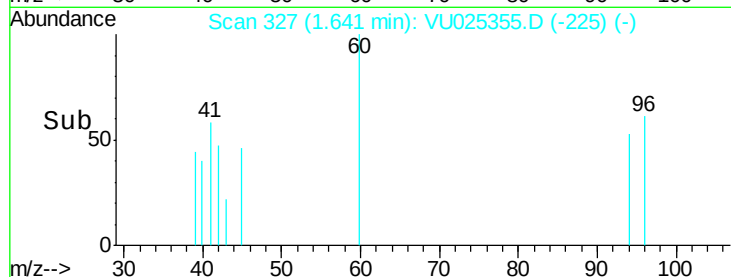
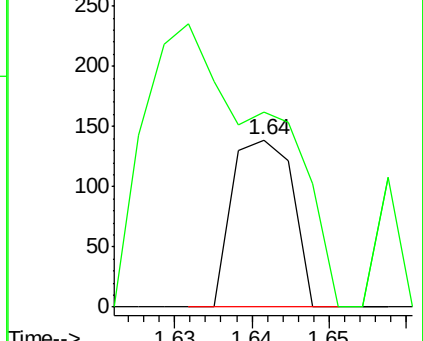
94 100

96 116.5 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 0.32 ug/l

RT: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU025355.D

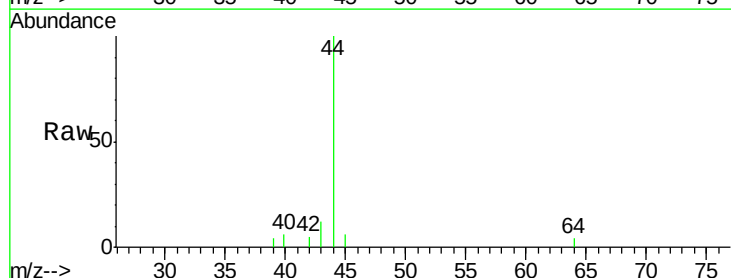
Acq: 12 Jul 2018 21:35

Tgt Ion: 64 Resp: 41

Ion Ratio Lower Upper

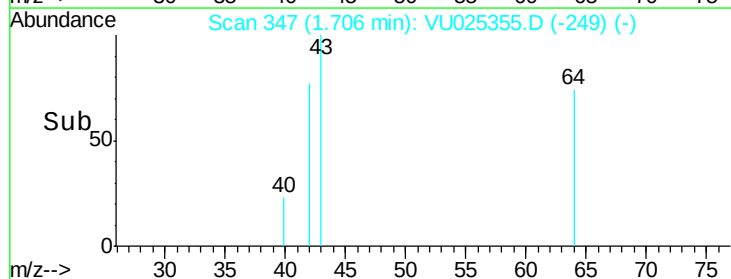
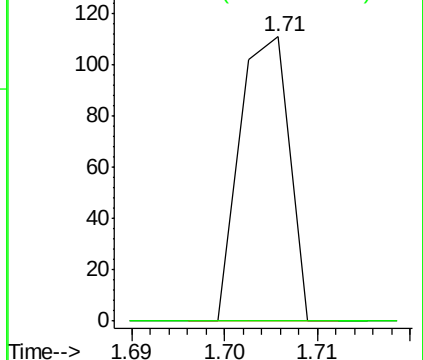
64 100

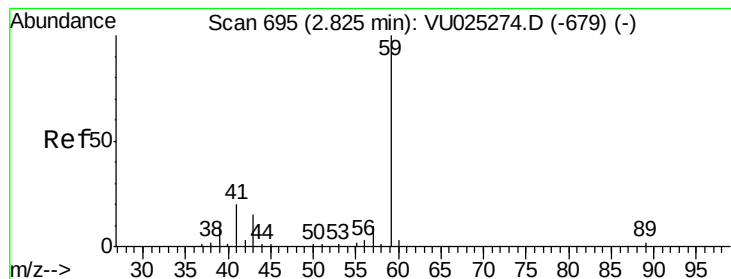
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



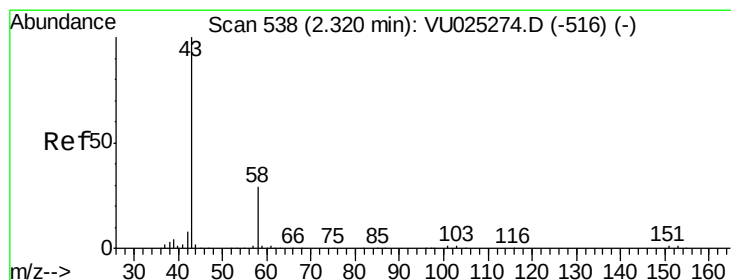
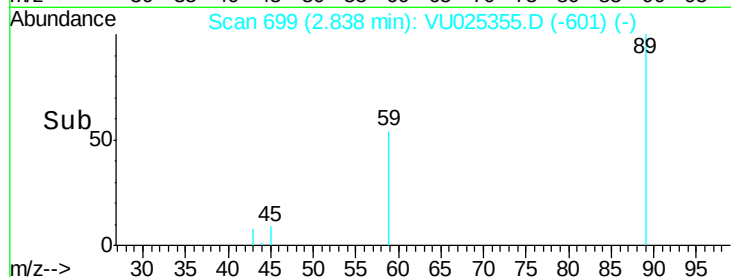
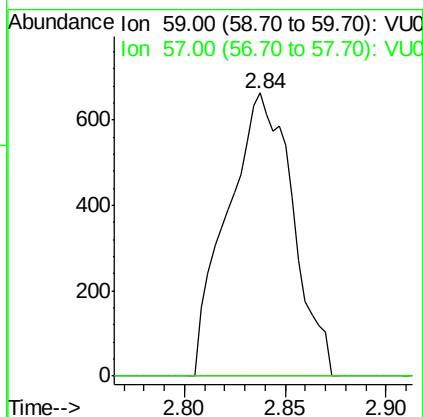
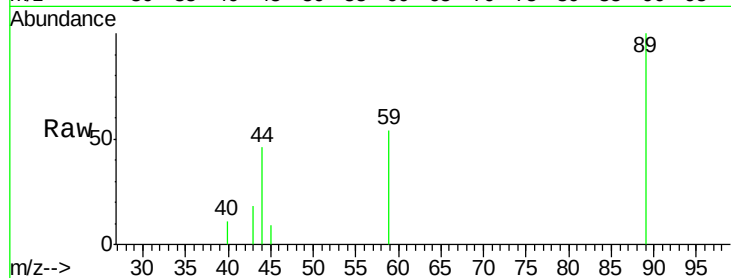


#11

Tert butyl alcohol
 Concen: 2.35 ug/l
 RT: 2.84 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VU025355.D
 Acq: 12 Jul 2018 21:35

Instrument :
 MSVOA_U
 ClientSampleId :
 PB110983ZHE#01

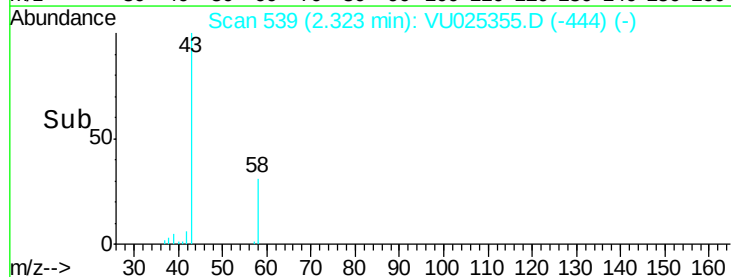
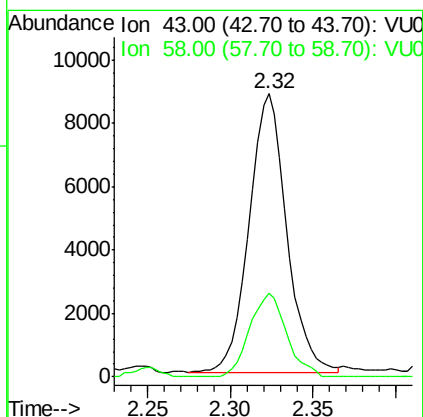
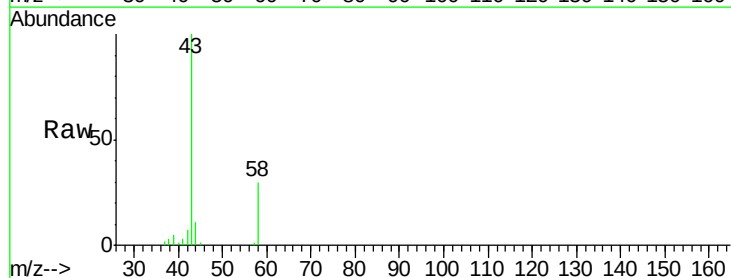
Tot Ion: 59 Resp: 1493
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

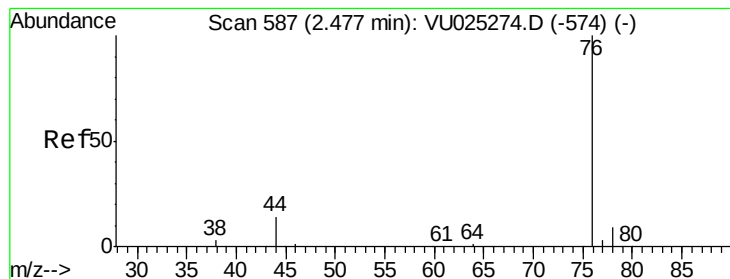


#16

Acetone
 Concen: 14.04 ug/l
 RT: 2.32 min Scan# 539
 Delta R.T. 0.00 min
 Lab File: VU025355.D
 Acq: 12 Jul 2018 21:35

Tgt Ion: 43 Resp: 13891
 Ion Ratio Lower Upper
 43 100
 58 30.2 23.1 34.7





#17

Carbon Disulfide

Concen: 1.96 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Instrument :

MSVOA_U

ClientSampleId :

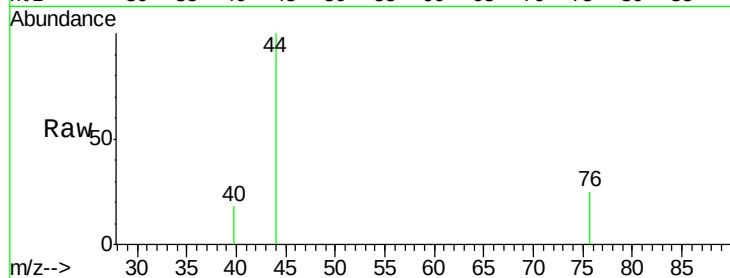
PB110983ZHE#01

Tot Ion: 76 Resp: 156

Ion Ratio Lower Upper

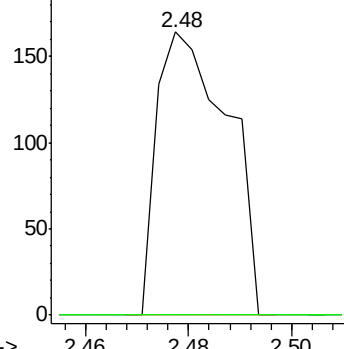
76 100

78 0.0 7.4 11.2#

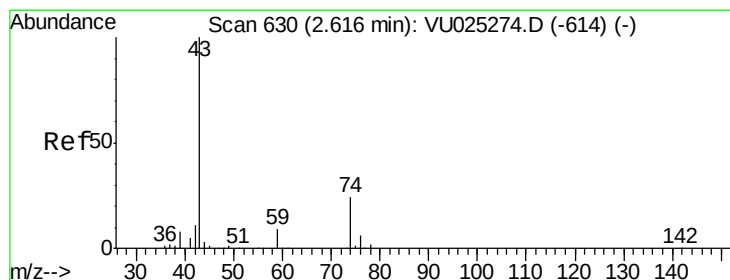
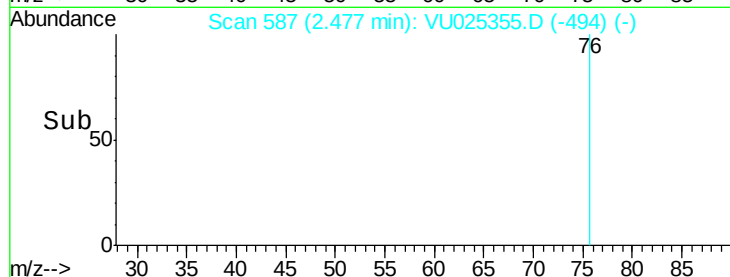


Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



Time-->



#18

Methyl Acetate

Concen: 7.51 ug/l

RT: 2.62 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU025355.D

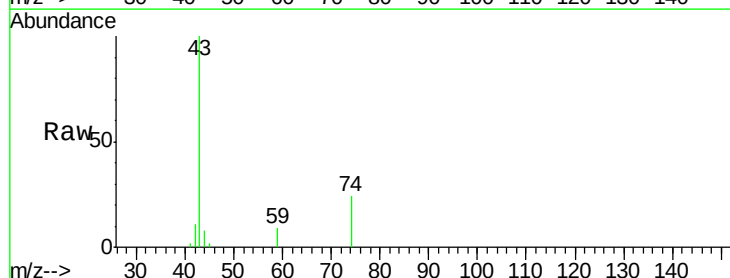
Acq: 12 Jul 2018 21:35

Tgt Ion: 43 Resp: 22373

Ion Ratio Lower Upper

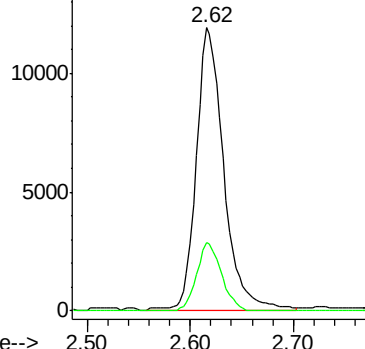
43 100

74 21.4 18.5 27.7

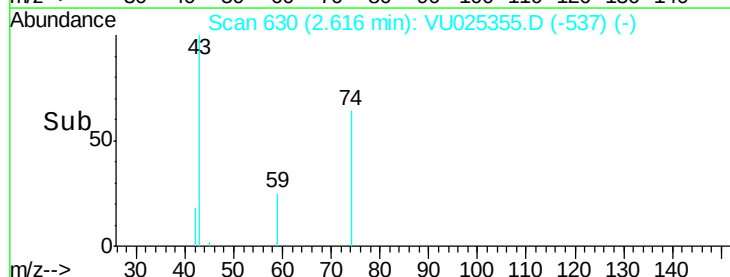


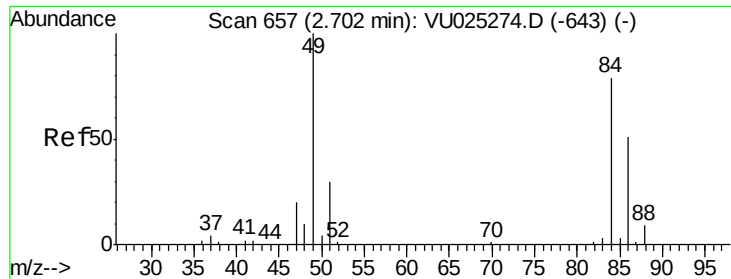
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



Time-->

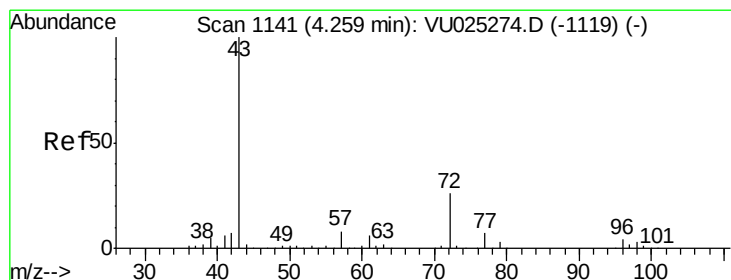
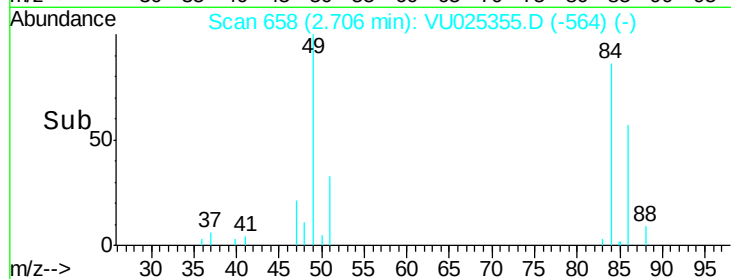
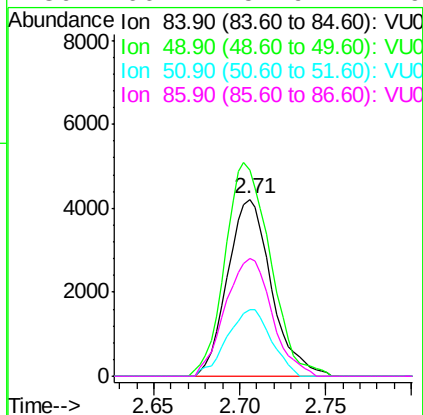
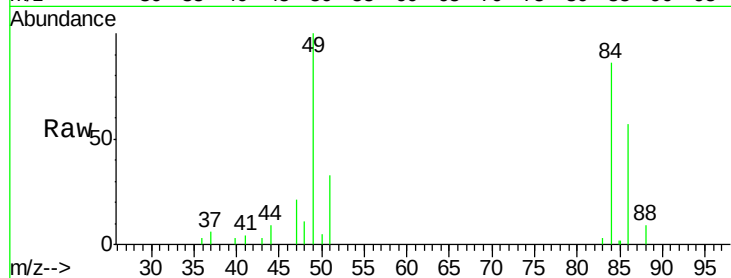




#20
Methvlene Chloride
Concen: 3.97 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025355.D
Acq: 12 Jul 2018 21:35

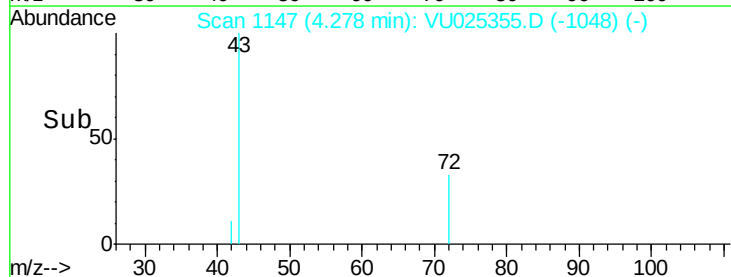
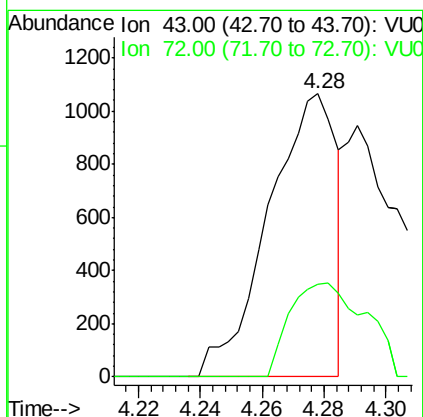
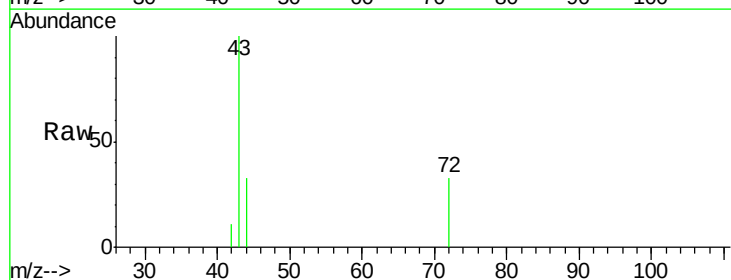
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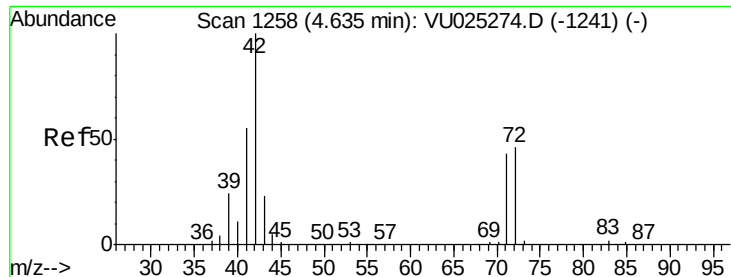
Tot Ion: 84 Resp: 7481
Ion Ratio Lower Upper
84 100
49 116.1 101.8 152.6
51 37.7 30.8 46.2
86 66.7 51.9 77.9



#25
2-Butanone
Concen: 0.80 ug/l
RT: 4.28 min Scan# 1147
Delta R.T. 0.02 min
Lab File: VU025355.D
Acq: 12 Jul 2018 21:35

Tgt Ion: 43 Resp: 1615
Ion Ratio Lower Upper
43 100
72 32.8 21.0 31.4#

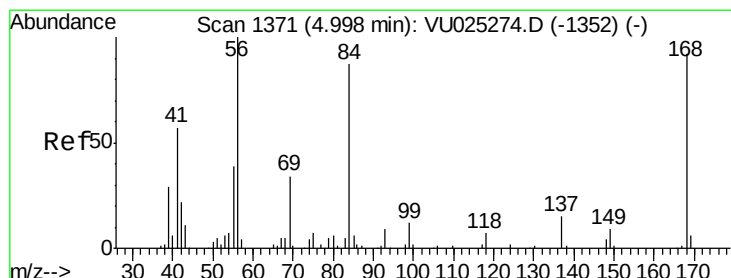
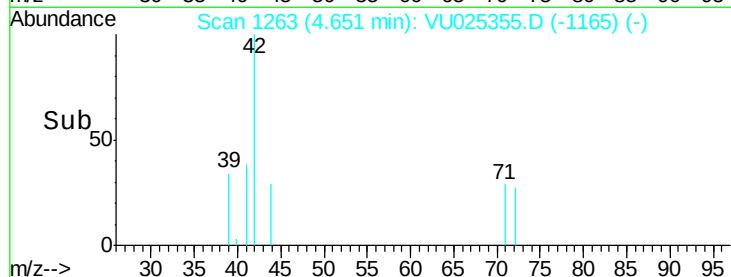
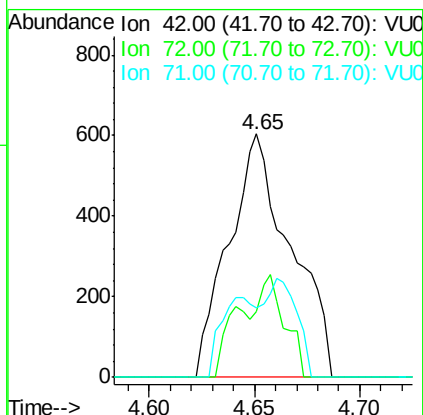
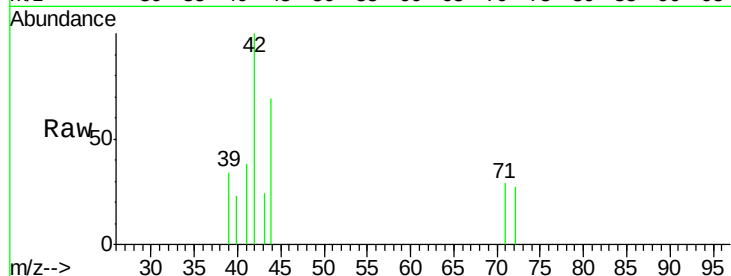




#29
Tetrahydrofuran
Concen: 1.01 ug/l
RT: 4.65 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VU025355.D
Acq: 12 Jul 2018 21:35

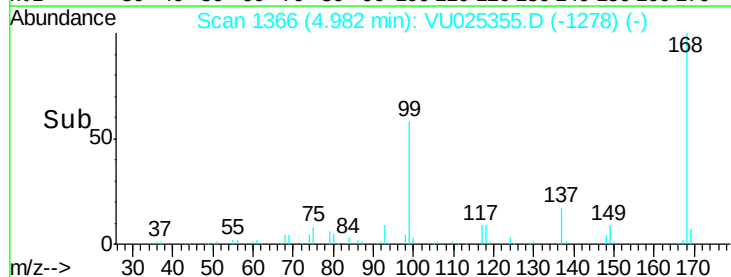
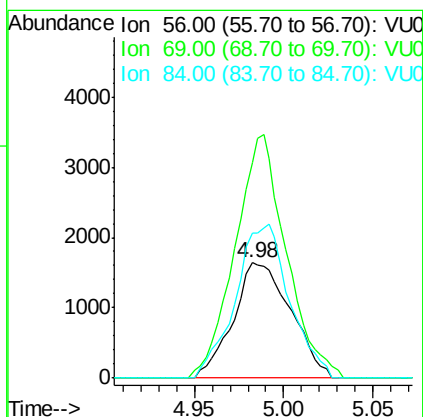
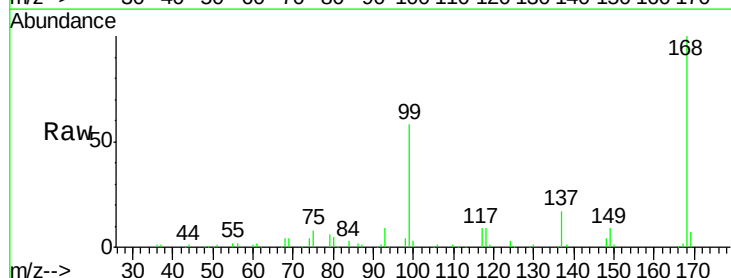
Instrument :
MSVOA_U
ClientSampleId :
PB110983ZHE#01

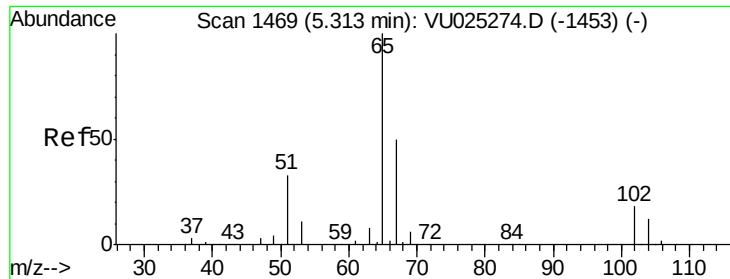
Tot Ion: 42 Resp: 1222
Ion Ratio Lower Upper
42 100
72 18.8 36.7 55.1#
71 18.4 33.9 50.9#



#31
Cyclohexane
Concen: 1.73 ug/l
RT: 4.98 min Scan# 1366
Delta R.T. -0.02 min
Lab File: VU025355.D
Acq: 12 Jul 2018 21:35

Tgt Ion: 56 Resp: 3693
Ion Ratio Lower Upper
56 100
69 187.7 26.8 40.2#
84 125.9 69.7 104.5#

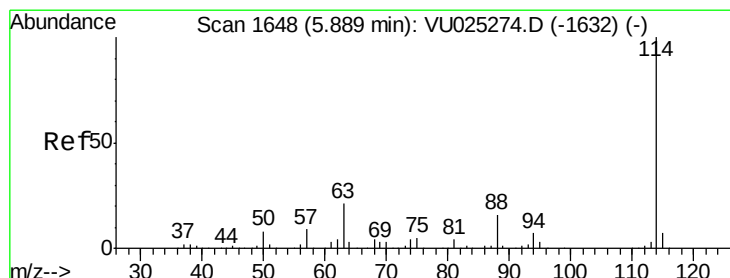
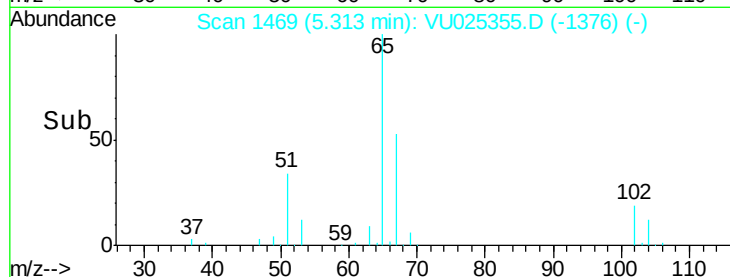
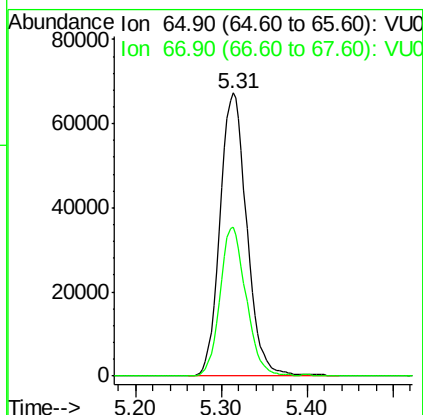
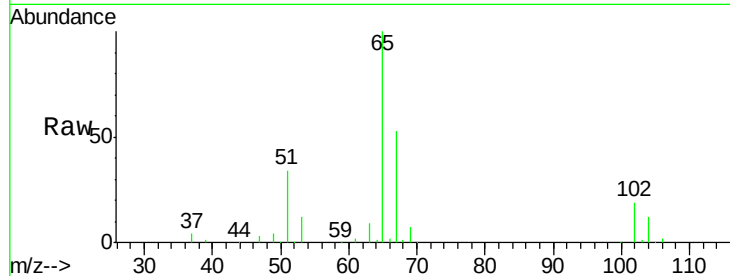




#33
 1,2-Dichloroethane-d4
 Concen: 50.32 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025355.D
 Acq: 12 Jul 2018 21:35

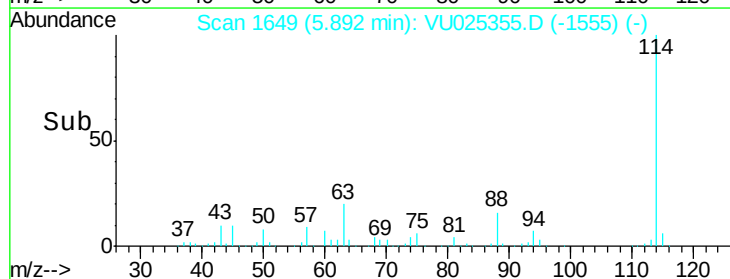
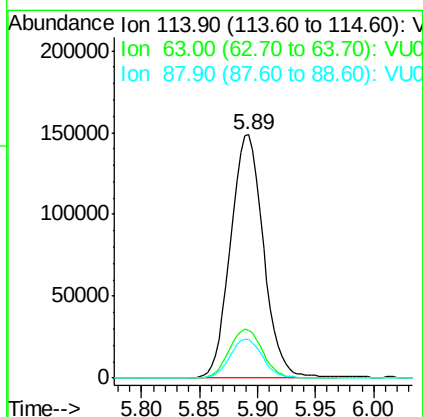
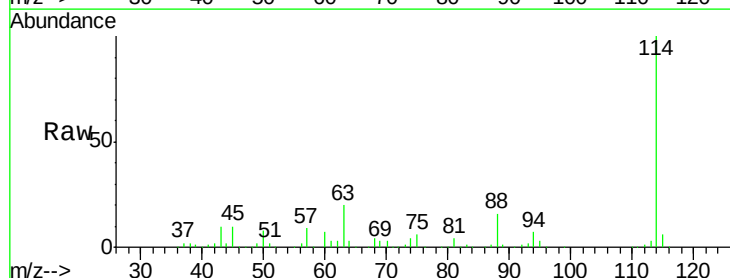
Instrument :
 MSVOA_U
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 PB110983ZHE#01

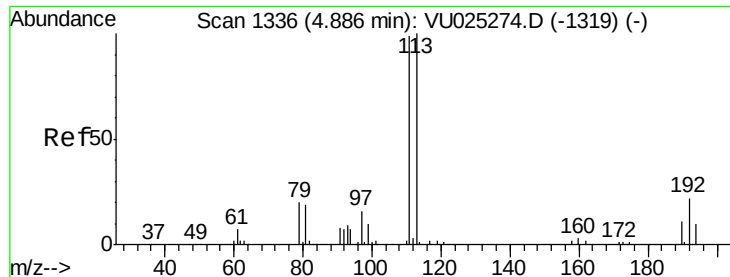
Tot Ion: 65 Resp: 146352
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025355.D
 Acq: 12 Jul 2018 21:35

Tgt Ion: 114 Resp: 292869
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.6
 88 15.7 0.0 32.4

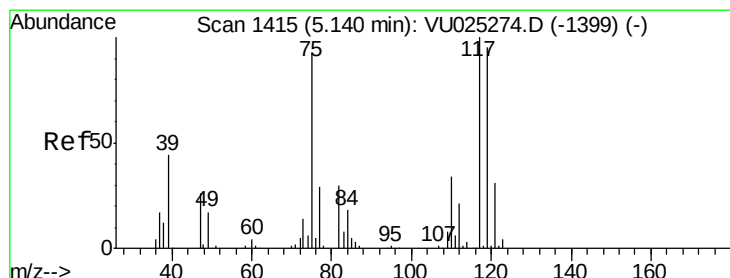
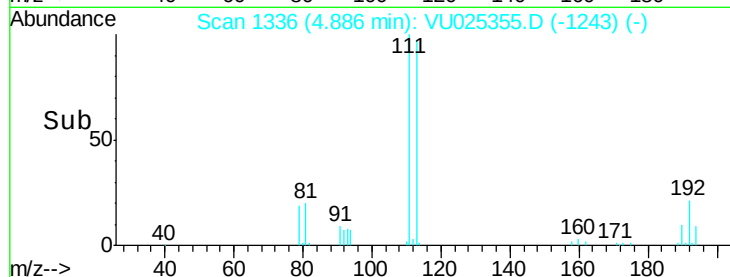
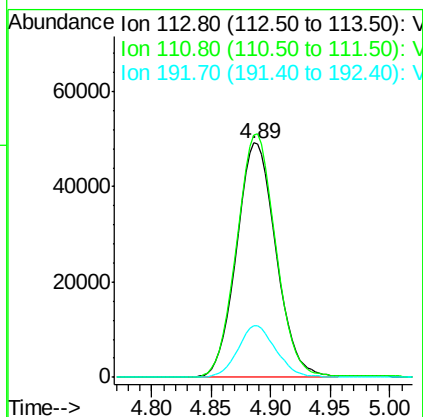
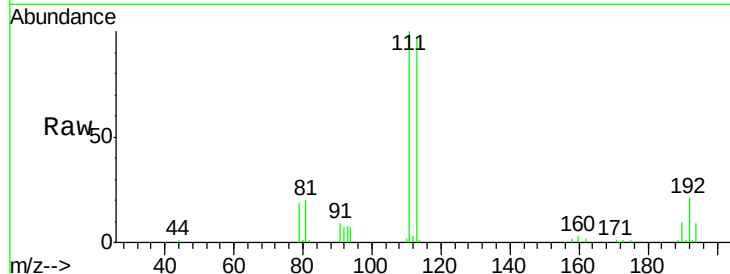




#35
 Dibromofluoromethane
 Concen: 45.84 ug/l
 RT: 4.89 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VU025355.D
 Acq: 12 Jul 2018 21:35

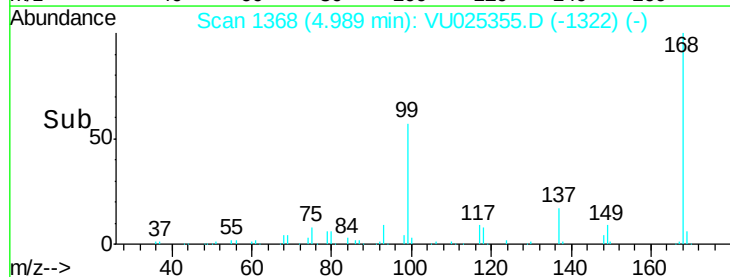
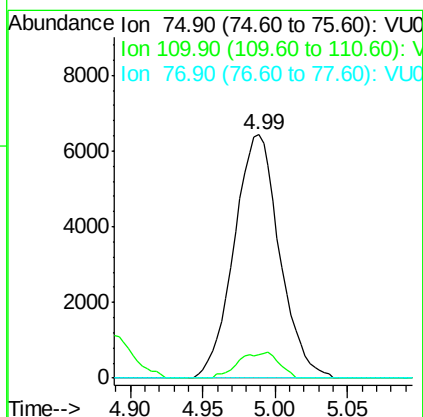
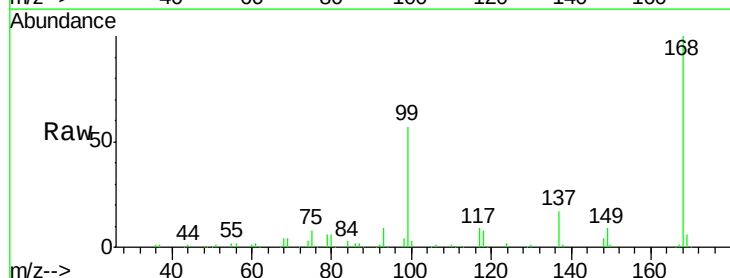
Instrument :
 MSVOA_U
 ClientSampleId :
 PB110983ZHE#01

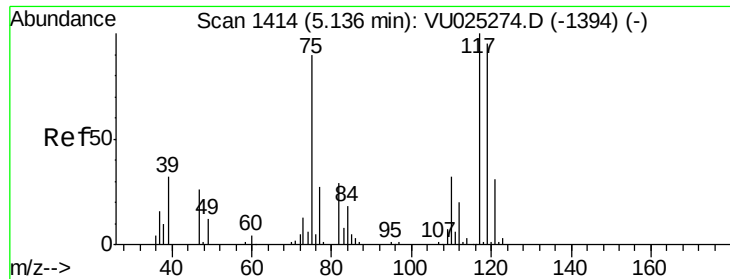
Tot Ion:113 Resp: 113241
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.7 122.5
 192 21.4 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.31 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025355.D
 Acq: 12 Jul 2018 21:35

Tgt Ion: 75 Resp: 14022
 Ion Ratio Lower Upper
 75 100
 110 9.5 17.6 52.9#
 77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 5.12 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Instrument :

MSVOA_U

ClientSampleId :

PB110983ZHE#01

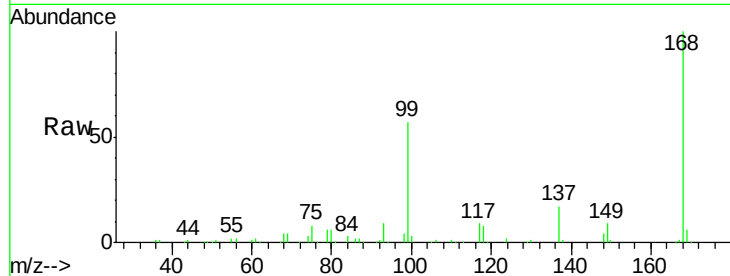
Tot Ion:117 Resp: 17936

Ion Ratio Lower Upper

117 100

119 5.3 75.7 113.5#

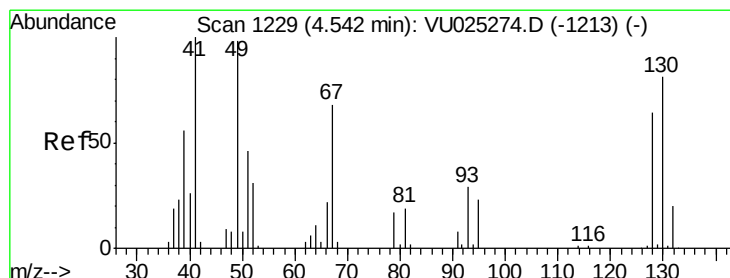
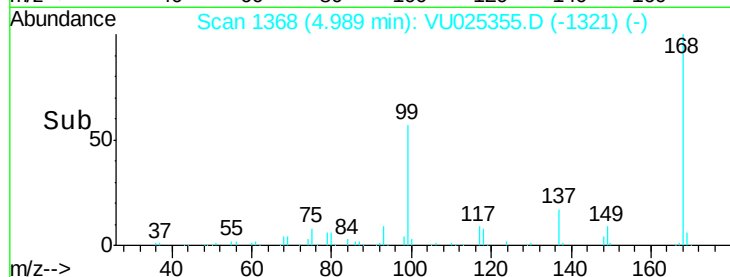
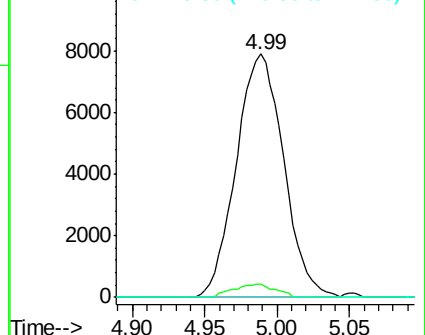
121 0.0 24.6 36.8#



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



#41

Methacrylonitrile

Concen: 0.24 ug/l

RT: 4.64 min Scan# 1260

Delta R.T. 0.10 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Tgt Ion: 41 Resp: 475

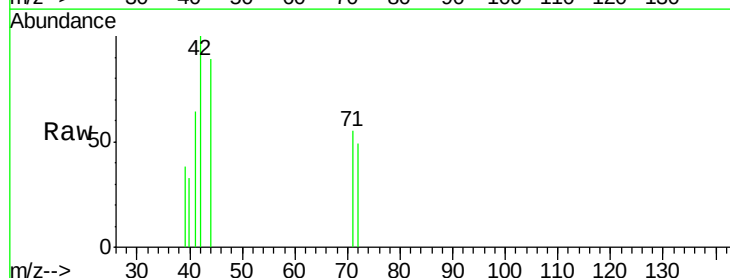
Ion Ratio Lower Upper

41 100

39 61.9 44.4 66.6

67 0.0 56.0 84.0#

52 0.0 24.6 36.8#

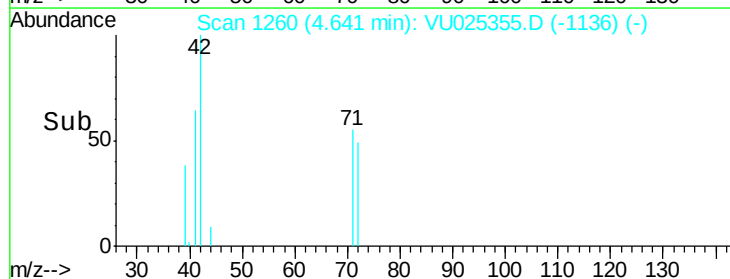
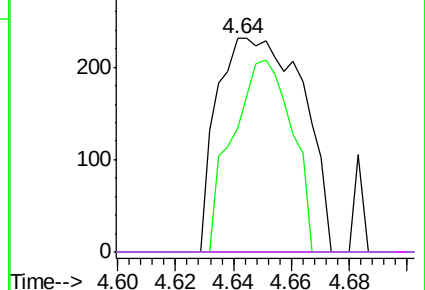


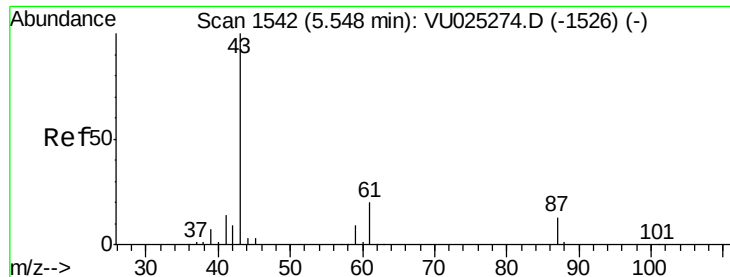
Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 67.00 (66.70 to 67.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#43

Isopropyl Acetate

Concen: 14.26 ug/l

RT: 5.79 min Scan# 1618

Delta R.T. 0.24 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Instrument :

MSVOA_U

ClientSampleId :

PB110983ZHE#01

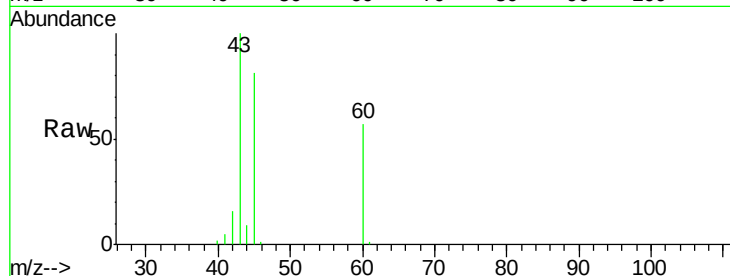
Tot Ion: 43 Resp: 82902

Ion Ratio Lower Upper

43 100

61 0.0 15.5 23.3#

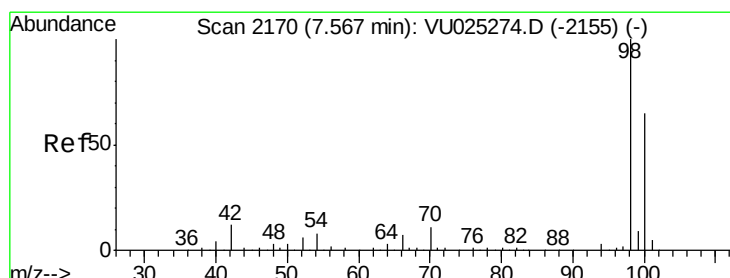
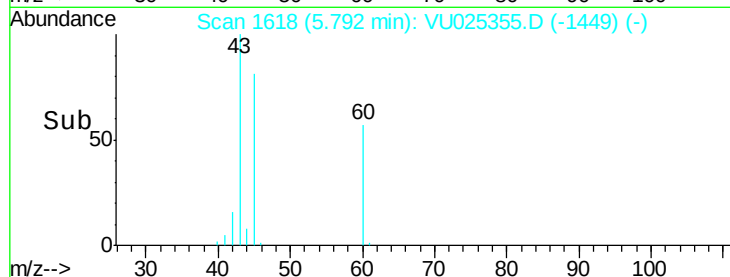
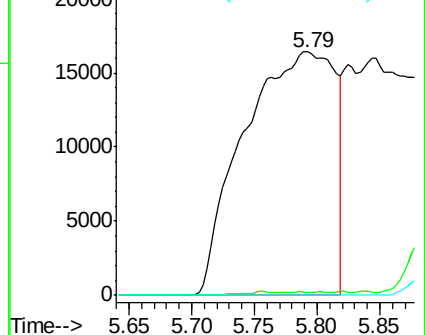
87 0.0 10.6 16.0#



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



#50

Toluene-d8

Concen: 49.49 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025355.D

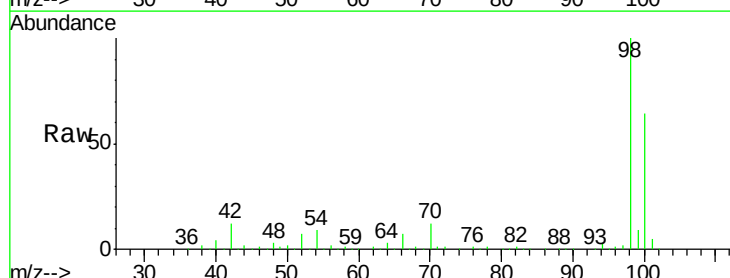
Acq: 12 Jul 2018 21:35

Tgt Ion: 98 Resp: 418692

Ion Ratio Lower Upper

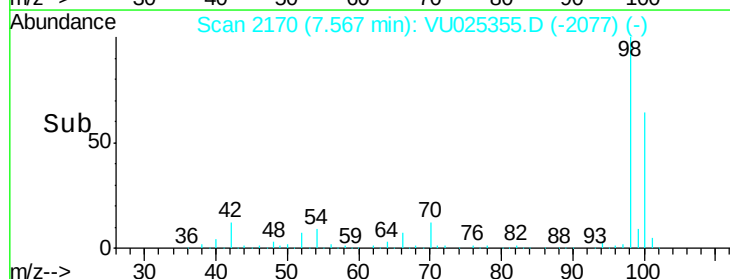
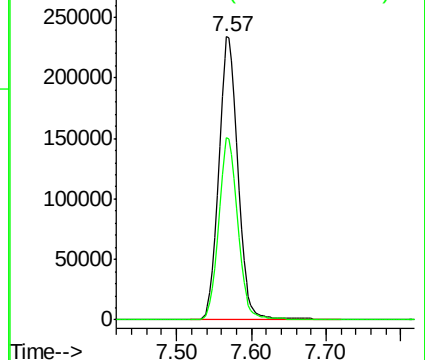
98 100

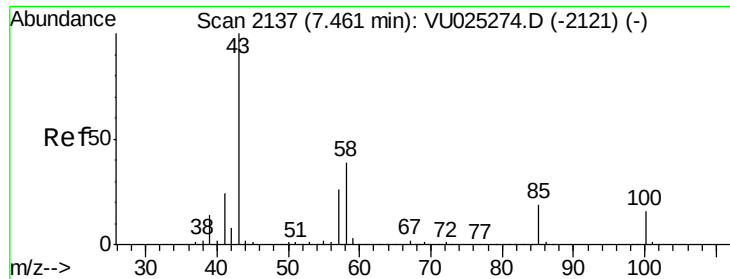
100 63.7 51.1 76.7



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: 0.28 ug/l

RT: 7.47 min Scan# 2140

Delta R.T. 0.01 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Instrument :

MSVOA_U

ClientSampleId :

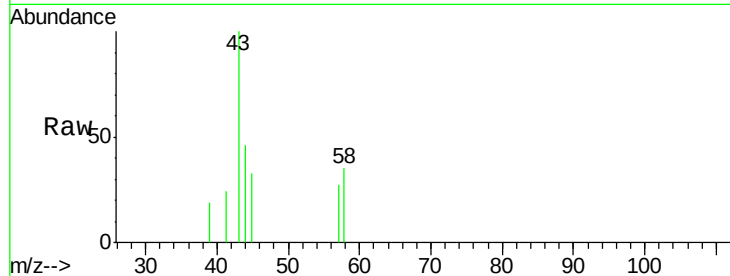
PB110983ZHE#01

Tot Ion: 43 Resp: 1051

Ion Ratio Lower Upper

43 100

58 29.5 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

7.47

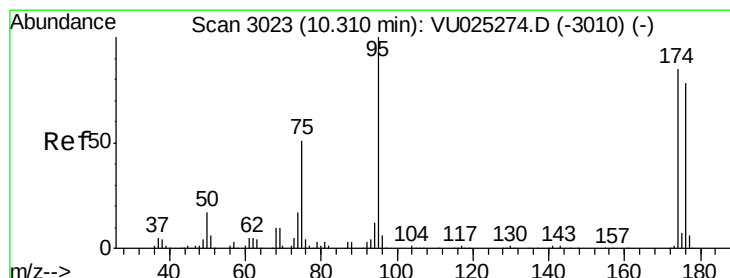
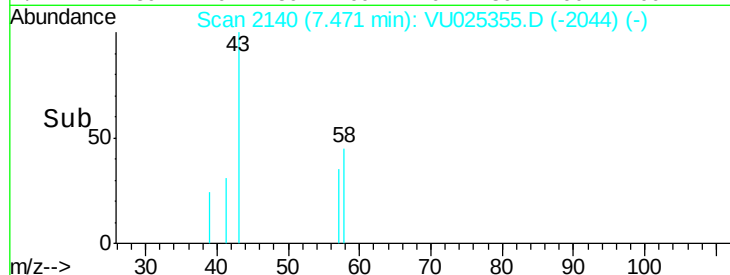
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.63 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

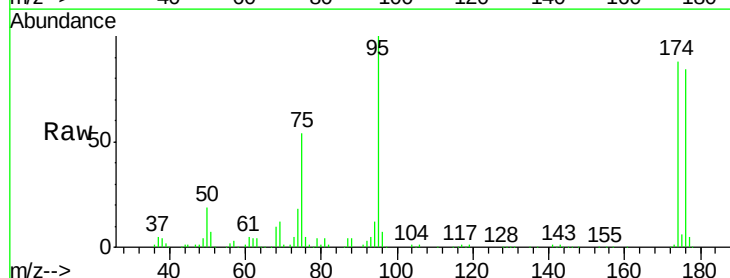
Tgt Ion: 95 Resp: 152030

Ion Ratio Lower Upper

95 100

174 88.4 0.0 172.2

176 83.9 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

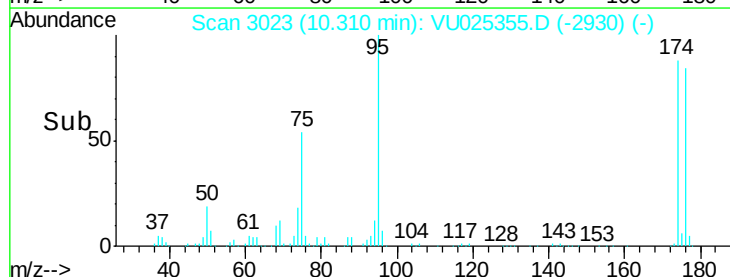
60000

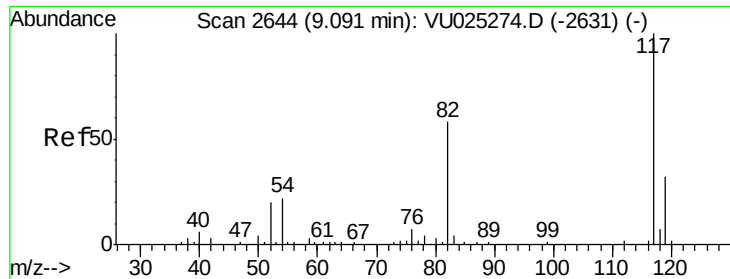
40000

20000

0

Time-->

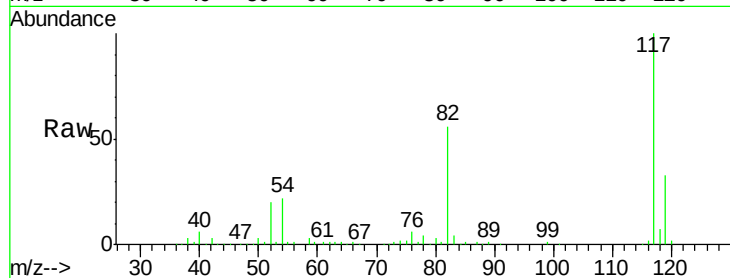




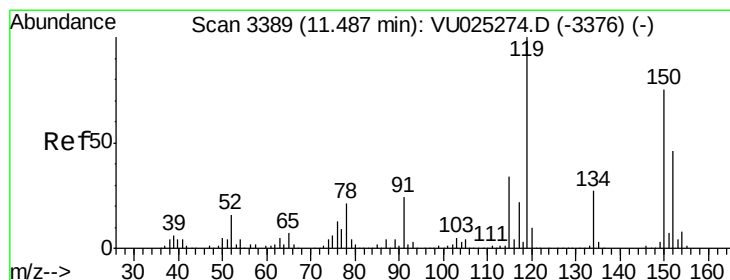
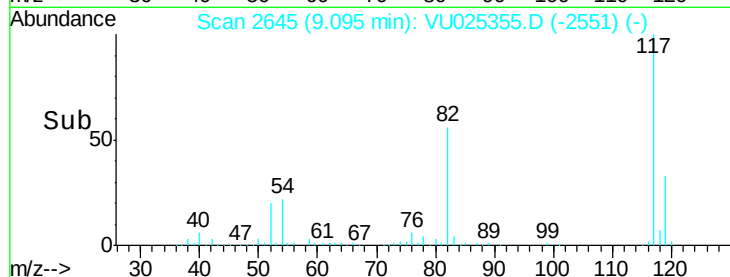
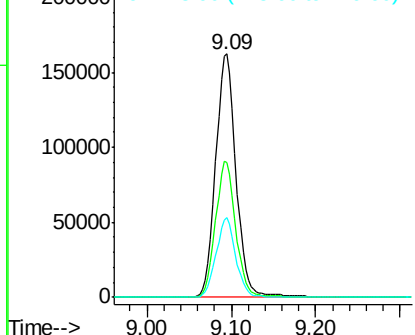
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025355.D
Acq: 12 Jul 2018 21:35

Instrument :
MSVOA_U
ClientSampleId :
PB110983ZHE#01

Tot Ion:117 Resp: 273391
Ion Ratio Lower Upper
117 100
82 55.6 46.0 69.0
119 32.6 26.0 39.0

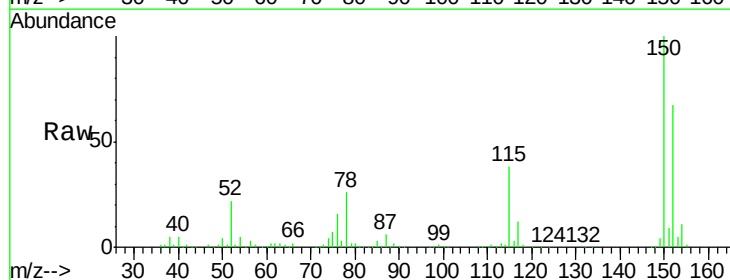


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

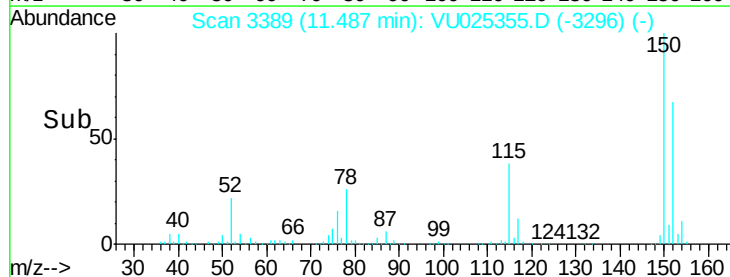
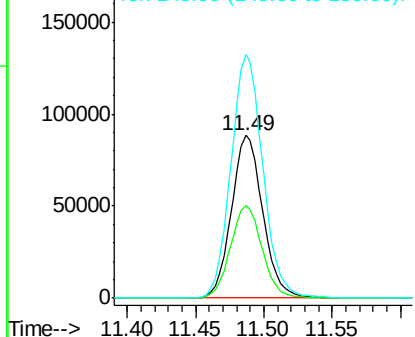


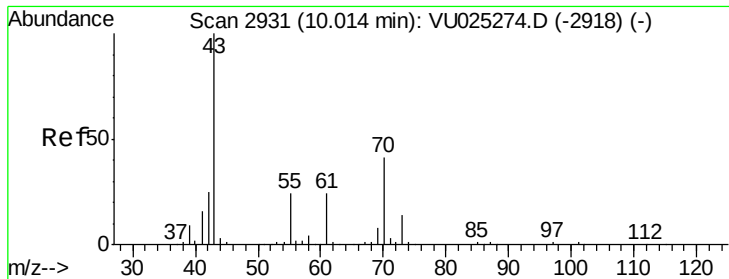
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025355.D
Acq: 12 Jul 2018 21:35

Tgt Ion:152 Resp: 140975
Ion Ratio Lower Upper
152 100
115 57.6 40.1 120.3
150 152.6 0.0 351.4



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: 1.37 ug/l

RT: 9.99 min Scan# 2925

Delta R.T. -0.02 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Instrument :

MSVOA_U

ClientSampleId :

PB110983ZHE#01

Tot Ion: 43 Resp: 466

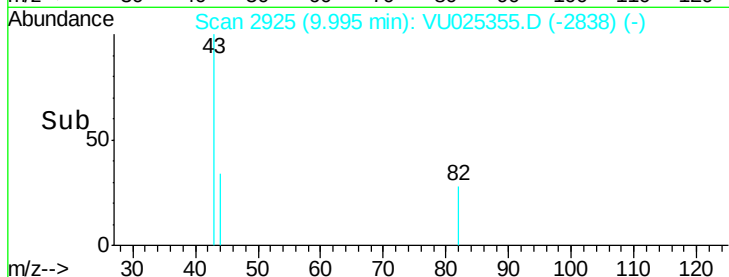
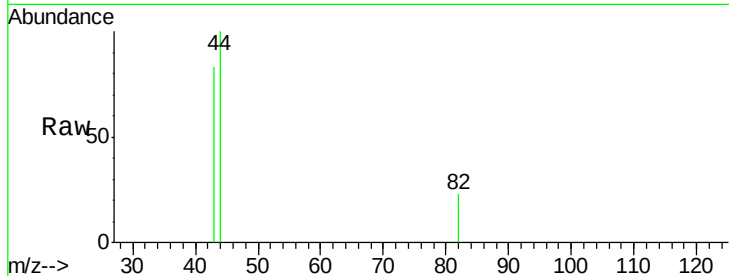
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#



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

9.99

400

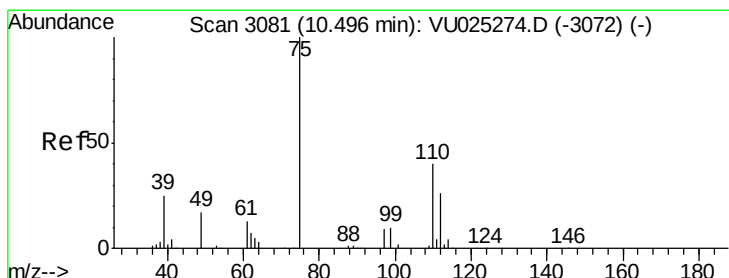
300

200

100

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 28.04 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025355.D

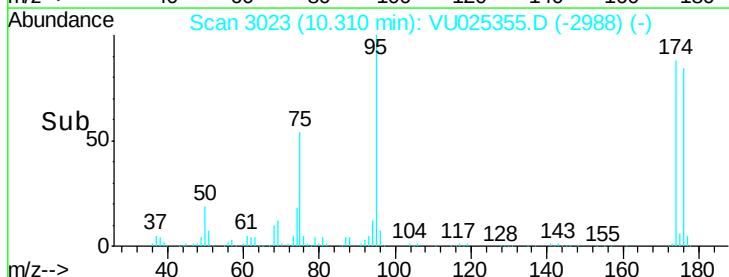
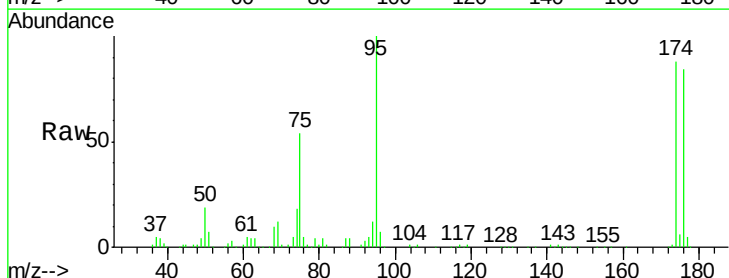
Acq: 12 Jul 2018 21:35

Tgt Ion: 75 Resp: 80451

Ion Ratio Lower Upper

75 100

77 1.0 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

50000

40000

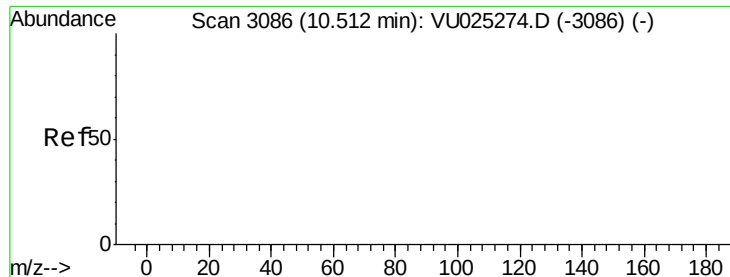
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 71.63 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

Instrument :

MSVOA_U

ClientSampleId :

PB110983ZHE#01

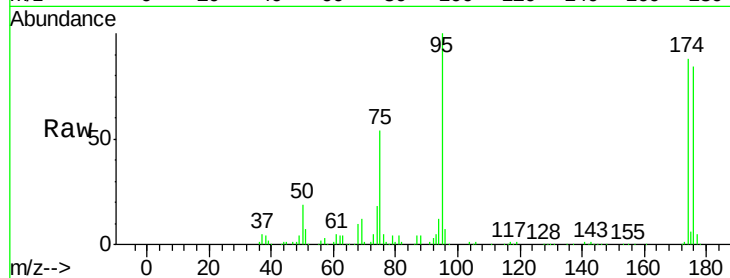
Tot Ion: 75 Resp: 80451

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

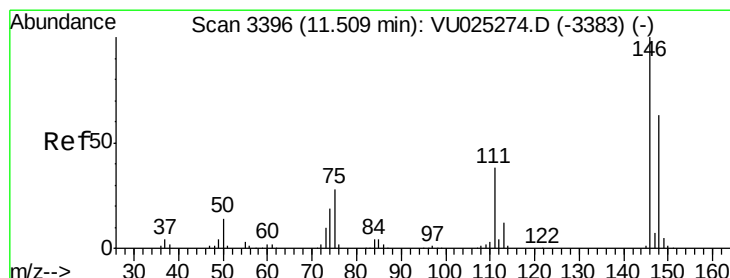
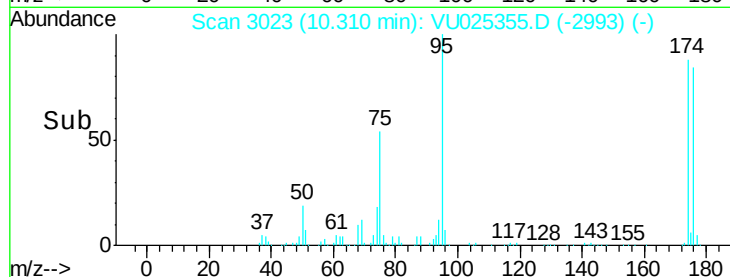
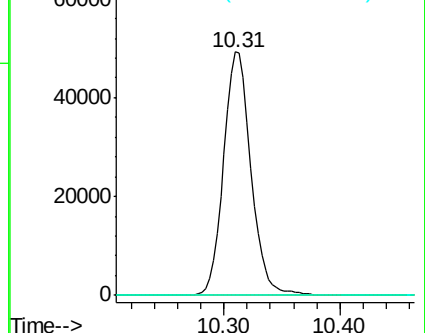
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU025274.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU025274.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU025274.D (-3086) (-)



#88

1,4-Dichlorobenzene

Concen: 1.50 ug/l

RT: 11.52 min Scan# 3399

Delta R.T. 0.01 min

Lab File: VU025355.D

Acq: 12 Jul 2018 21:35

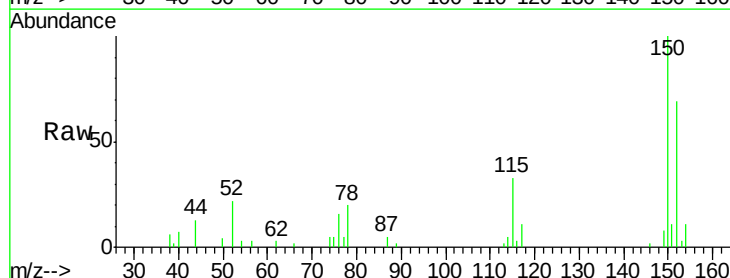
Tgt Ion: 146 Resp: 43

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.1#

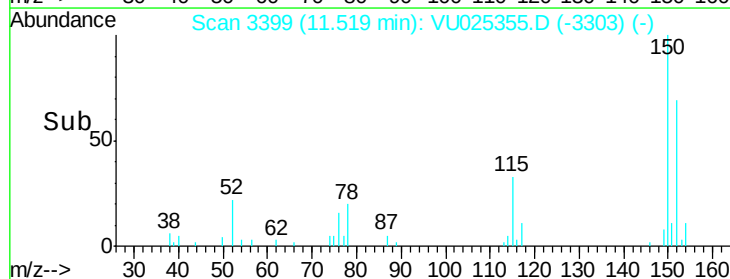
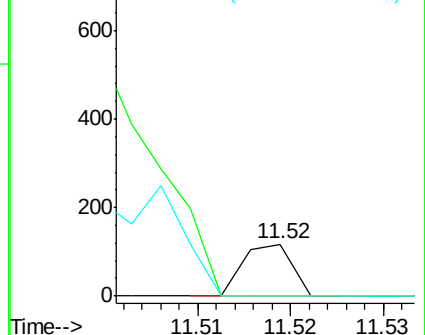
148 334.9 31.7 95.1#

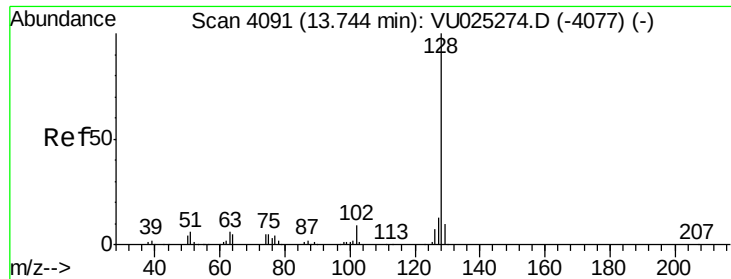


Abundance Ion 145.90 (145.60 to 146.60): VU025274.D (-3383) (-)

Ion 110.90 (110.60 to 111.60): VU025274.D (-3383) (-)

Ion 147.90 (147.60 to 148.60): VU025274.D (-3383) (-)

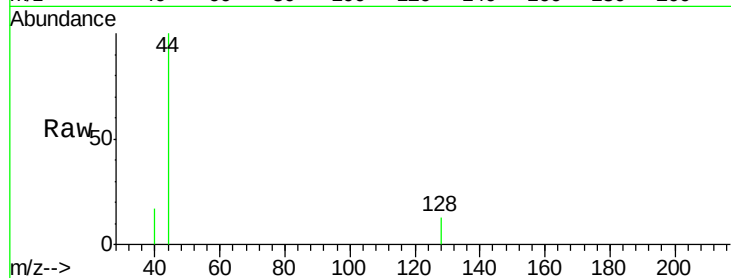




#95
 Naphthalene
 Concen: 2.41 ug/l
 RT: 13.78 min Scan# 4103
 Delta R.T. 0.04 min
 Lab File: VU025355.D
 Acq: 12 Jul 2018 21:35

Instrument :
 MSVOA_U
 ClientSampleId :
 PB110983ZHE#01

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.3	12.5#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

