

Data File : VU029237.D
Acq On : 21 Jan 2019 10:32
Operator : JC/SP
Sample : PB116506TB
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PB116506TB

Quant Time: Jan 22 01:03:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	117852	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	206045	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	192408	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	78171	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	78730	54.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.08%	
35) Dibromofluoromethane	4.88	113	69291	51.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.76%	
50) Toluene-d8	7.56	98	268399	50.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.80%	
62) 4-Bromofluorobenzene	10.30	95	75674	39.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.86%	

Target Compounds

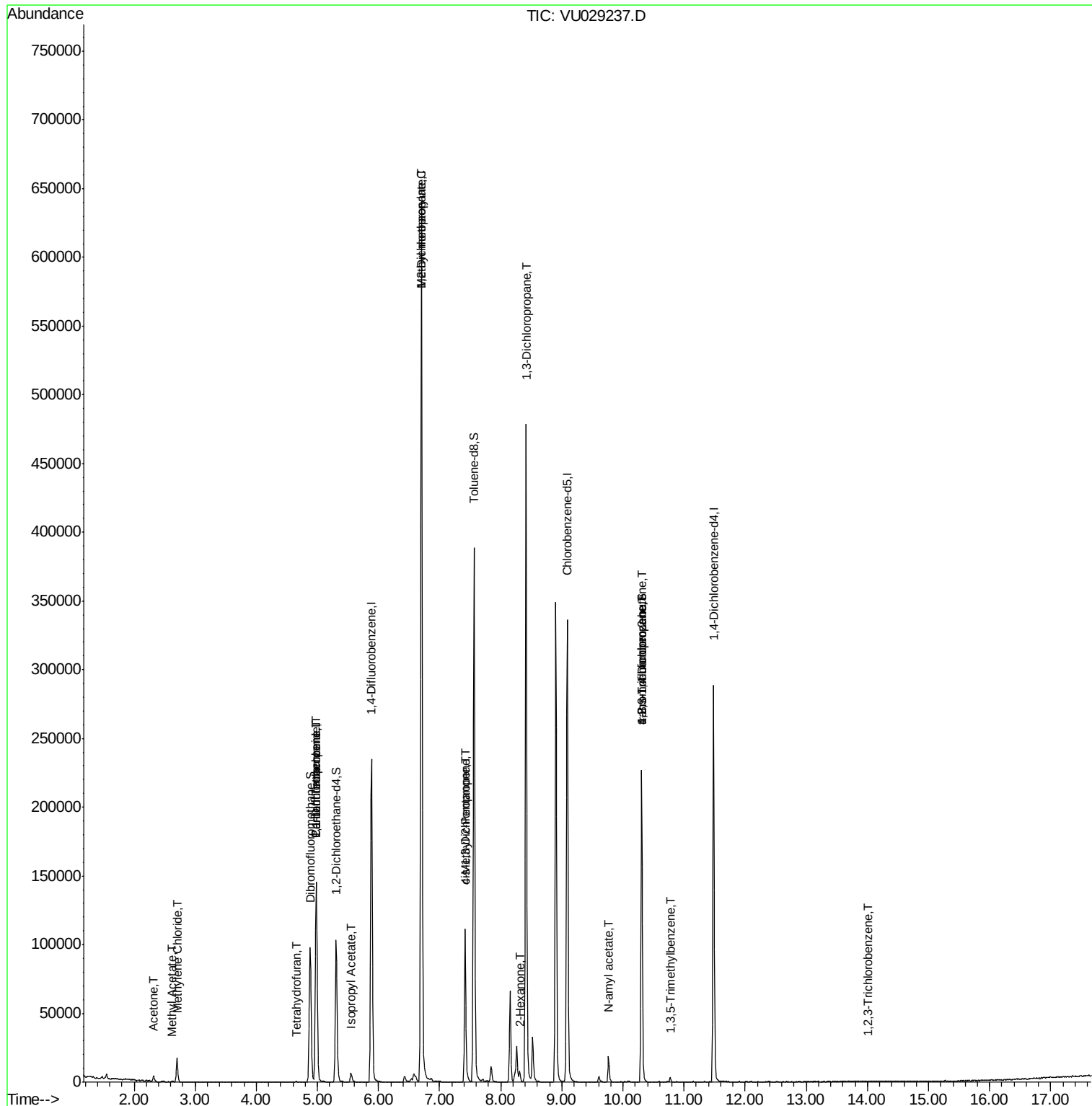
						Qvalue
3) Chloromethane	1.33	50	845	Below Cal	#	88
5) Bromomethane	1.64	94	88	Below Cal	#	2
16) Acetone	2.32	43	4800	5.230	ug/l #	87
17) Carbon Disulfide	2.48	76	511	Below Cal	#	54
18) Methyl Acetate	2.63	43	693	0.325	ug/l #	51
20) Methylene Chloride	2.70	84	7930	5.089	ug/l	99
29) Tetrahydrofuran	4.66	42	384	0.511	ug/l #	30
31) Cyclohexane	4.98	56	1926	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8346	4.052	ug/l #	47
38) Carbon Tetrachloride	4.98	117	10629	6.188	ug/l #	17
43) Isopropyl Acetate	5.55	43	8310	2.396	ug/l	93
45) 1,2-Dichloropropane	6.70	63	667	0.393	ug/l #	43
48) Methyl methacrylate	6.70	41	53506	31.687	ug/l #	36
51) 4-Methyl-2-Pentanone	7.42	43	39885	16.900	ug/l #	44
54) cis-1,3-Dichloropropene	7.42	75	20550	7.929	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	4794	1.788	ug/l #	42
59) 2-Hexanone	8.31	43	6340	3.422	ug/l #	21
74) N-amyl acetate	9.76	43	5944	2.384	ug/l #	48
76) 1,2,3-Trichloropropane	10.30	75	37875	19.775	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	2128	0.440	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.30	75	37875	51.000	ug/l #	100
96) 1,2,3-Trichlorobenzene	14.02	180	120	0.840	ug/l #	57

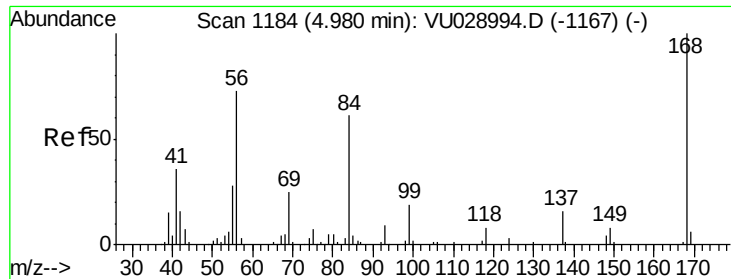
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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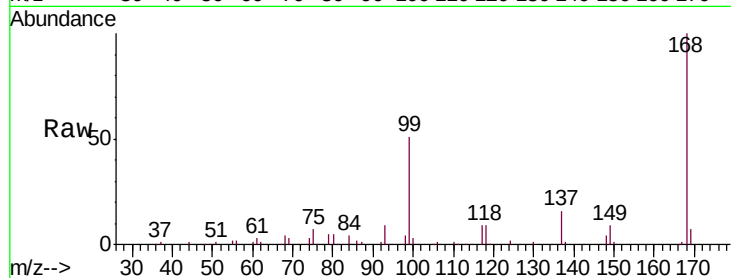




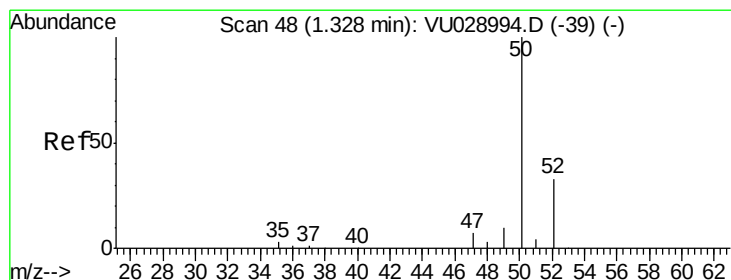
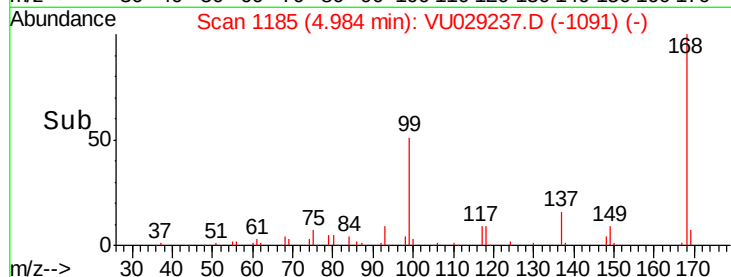
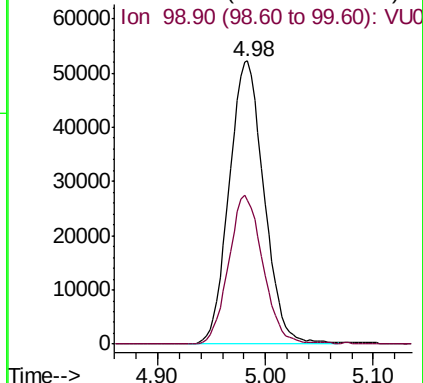
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. 0.00 min
Lab File: VU029237.D
Acq: 21 Jan 2019 10:32

Instrument :
MSVOA_U
ClientSampleId :
PB116506TB

Tgt Ion:168 Resp: 117852
Ion Ratio Lower Upper
168 100
99 51.0 42.0 63.0

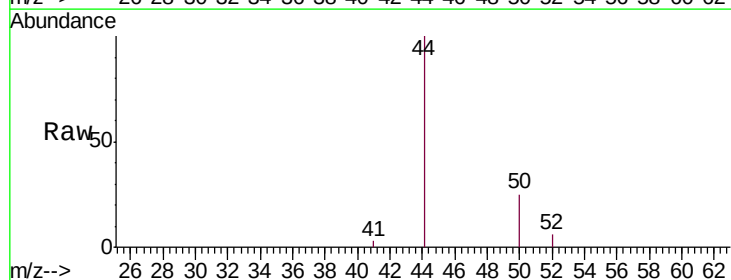


Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)
Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

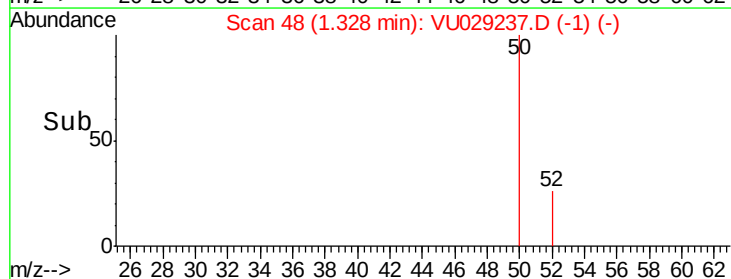
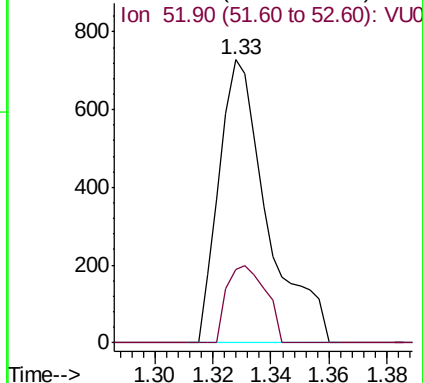


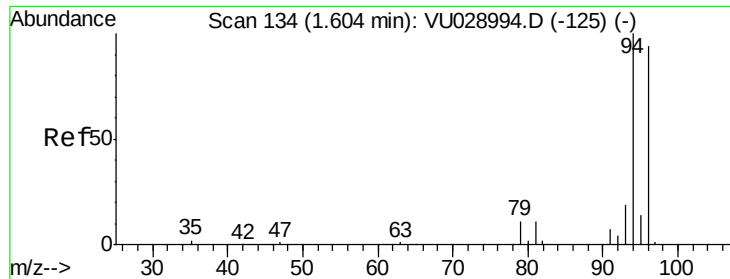
#3
Chloromethane
Concen: Below Cal
RT: 1.33 min Scan# 48
Delta R.T. 0.00 min
Lab File: VU029237.D
Acq: 21 Jan 2019 10:32

Tgt Ion: 50 Resp: 845
Ion Ratio Lower Upper
50 100
52 26.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)
Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 144

Delta R.T. 0.03 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

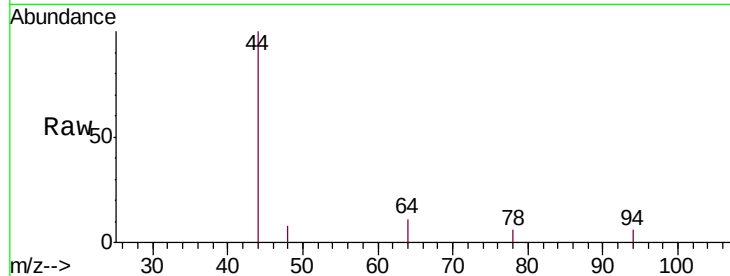
PB116506TB

Tgt Ion: 94 Resp: 88

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

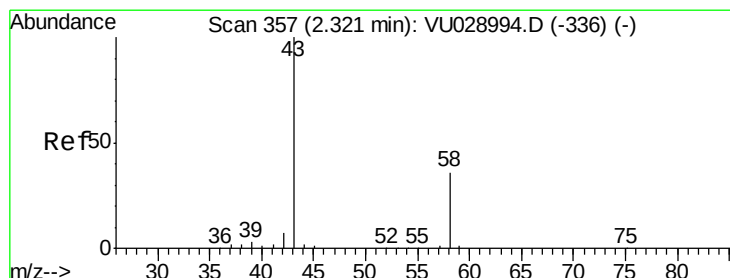
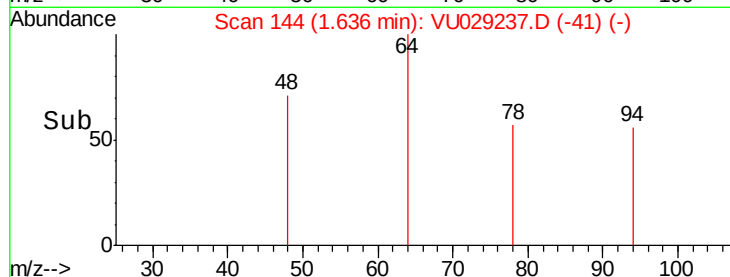
100

50

0

Time-->

1.62 1.63 1.64 1.65



#16

Acetone

Concen: 5.230 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029237.D

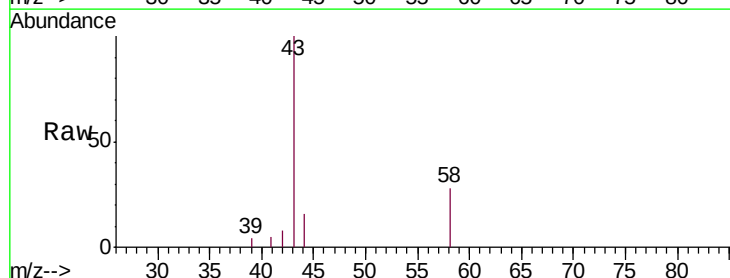
Acq: 21 Jan 2019 10:32

Tgt Ion: 43 Resp: 4800

Ion Ratio Lower Upper

43 100

58 27.8 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

3000

2500

2000

1500

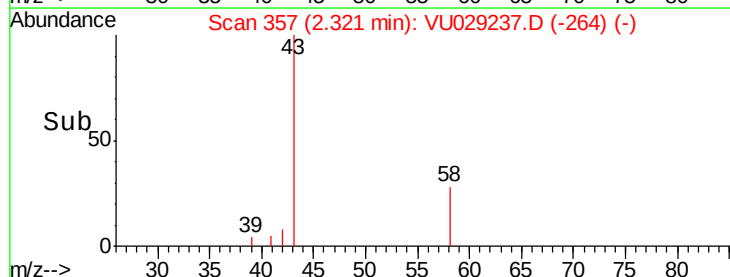
1000

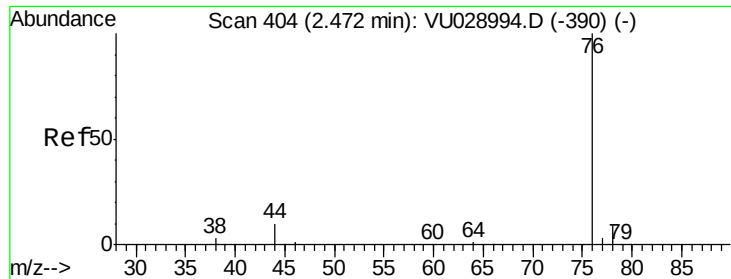
500

0

Time-->

2.25 2.30 2.35 2.40





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

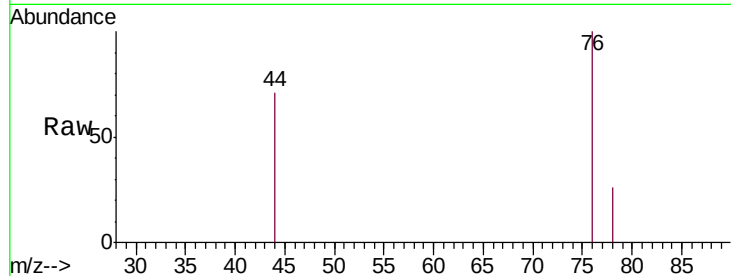
PB116506TB

Tgt Ion: 76 Resp: 511

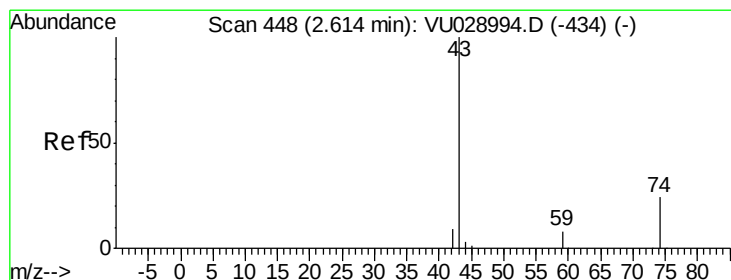
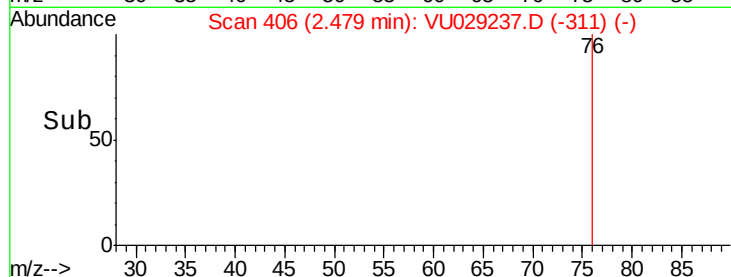
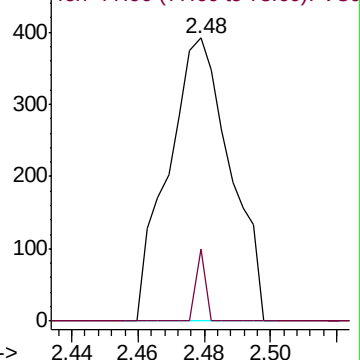
Ion Ratio Lower Upper

76 100

78 25.5 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU028994.D (-390) (-)



#18

Methyl Acetate

Concen: 0.325 ug/l

RT: 2.63 min Scan# 452

Delta R.T. 0.01 min

Lab File: VU029237.D

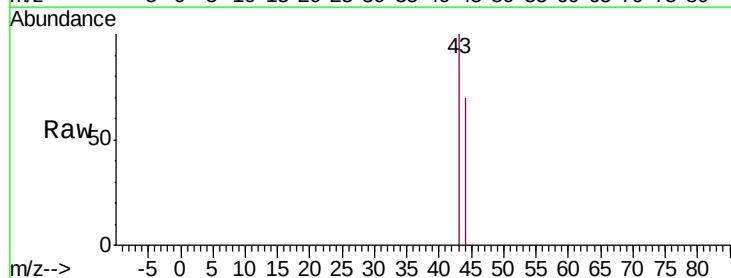
Acq: 21 Jan 2019 10:32

Tgt Ion: 43 Resp: 693

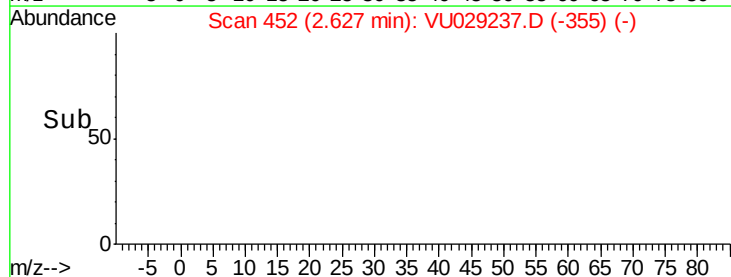
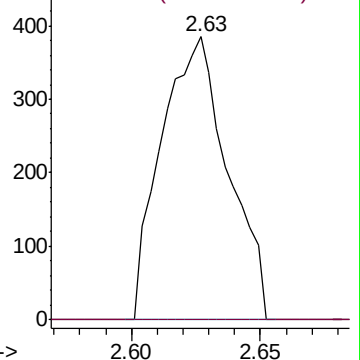
Ion Ratio Lower Upper

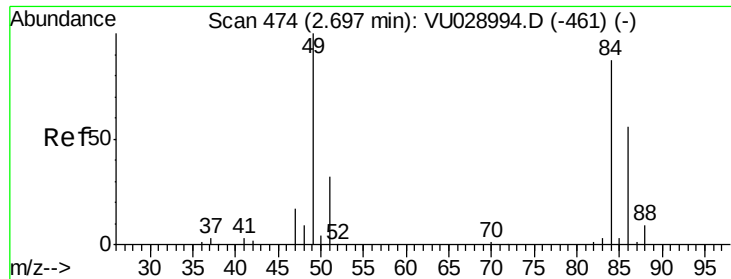
43 100

74 0.0 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-434) (-)





#20

Methylene Chloride

Concen: 5.089 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.01 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506TB

Tgt Ion: 84 Resp: 7930

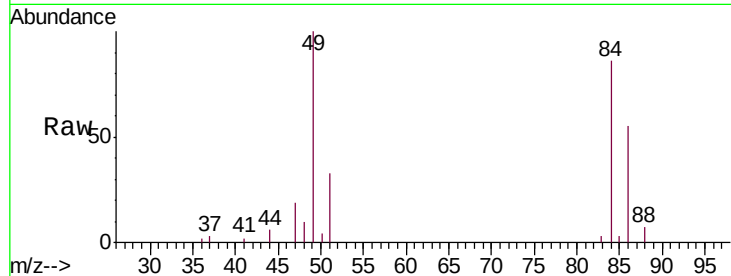
Ion Ratio Lower Upper

84 100

49 115.7 91.9 137.9

51 37.9 29.2 43.8

86 64.0 51.8 77.6

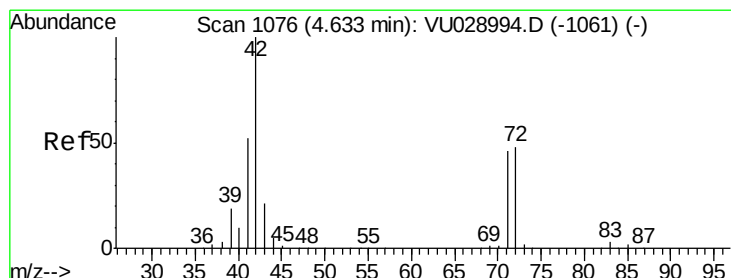
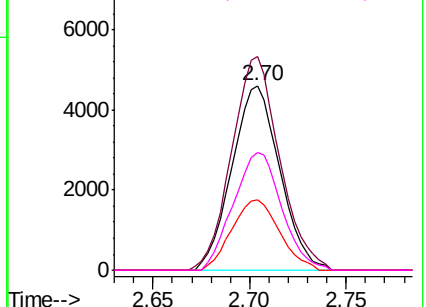
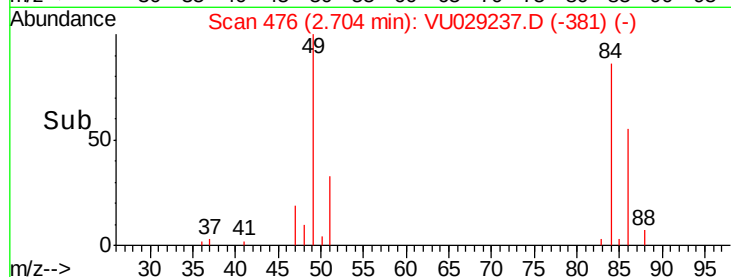


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#29

Tetrahydrofuran

Concen: 0.511 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

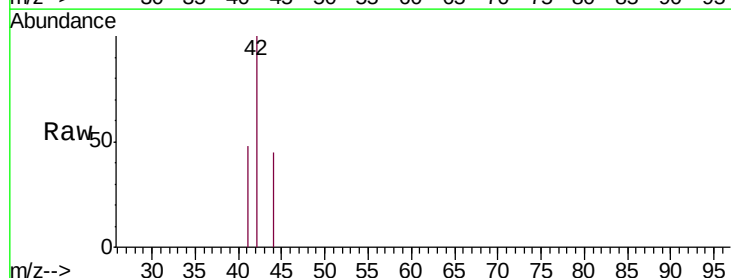
Tgt Ion: 42 Resp: 384

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

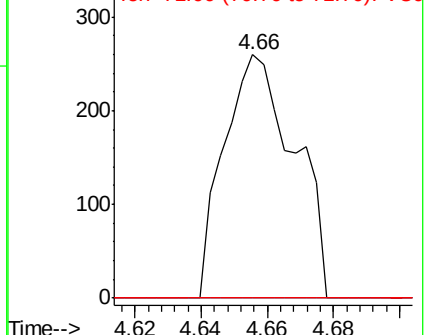
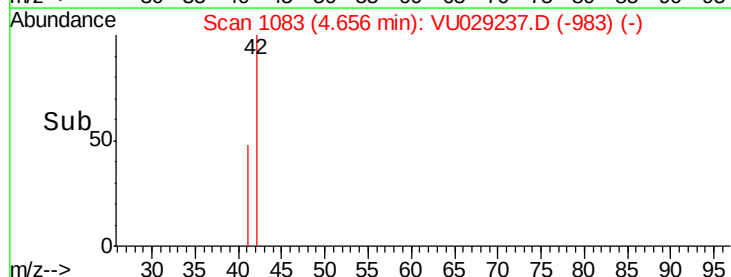
71 0.0 36.1 54.1#

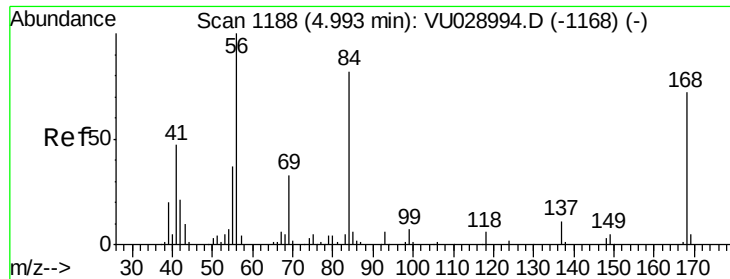


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

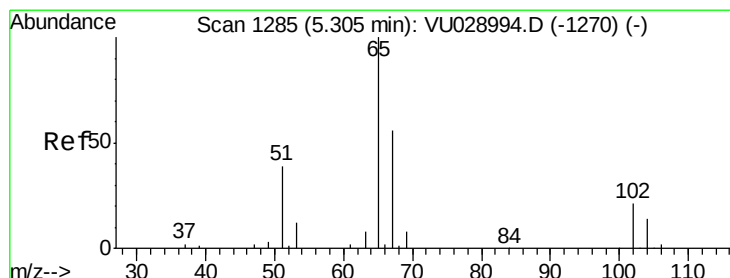
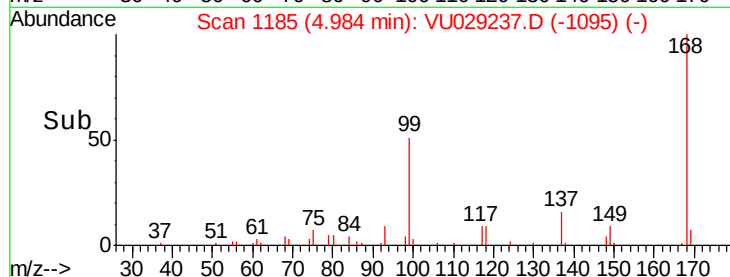
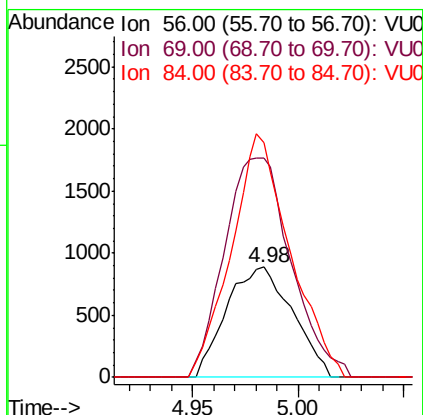
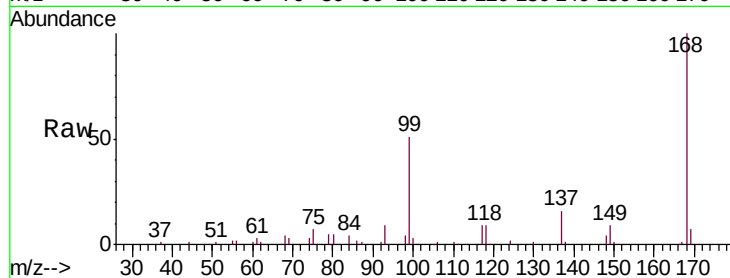




#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU029237.D
Acq: 21 Jan 2019 10:32

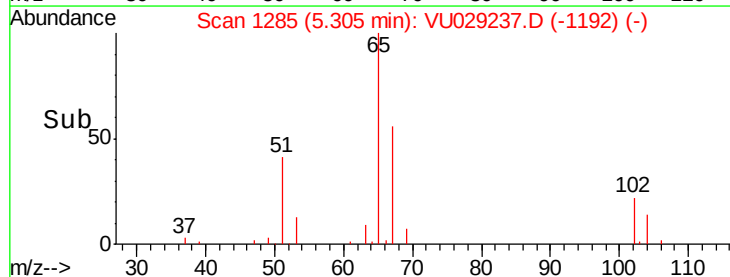
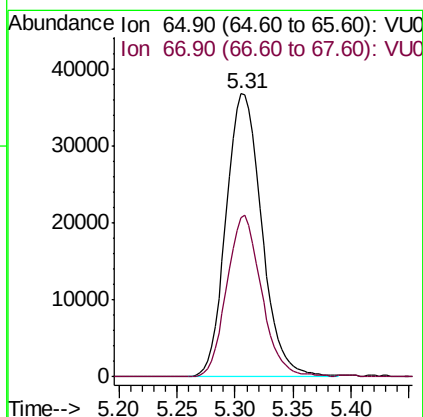
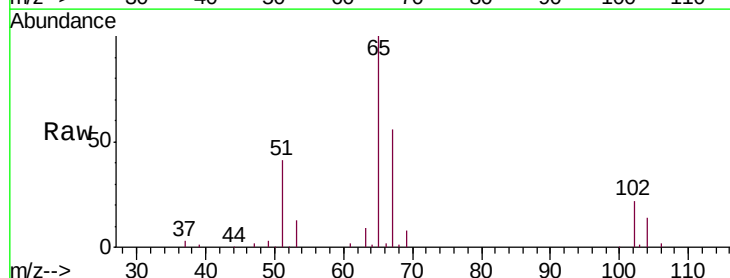
Instrument :
MSVOA_U
ClientSampleId :
PB116506TB

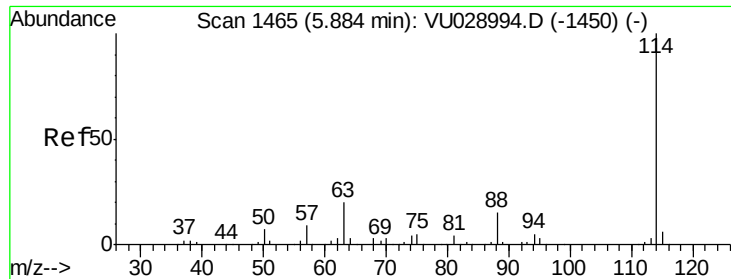
Tgt Ion: 56 Resp: 1926
Ion Ratio Lower Upper
56 100
69 199.2 26.7 40.1#
84 213.3 65.7 98.5#



#33
1,2-Dichloroethane-d4
Concen: 54.040 ug/l
RT: 5.31 min Scan# 1285
Delta R.T. 0.00 min
Lab File: VU029237.D
Acq: 21 Jan 2019 10:32

Tgt Ion: 65 Resp: 78730
Ion Ratio Lower Upper
65 100
67 55.4 0.0 111.0

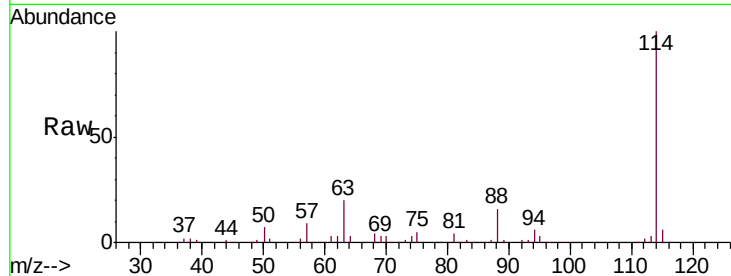




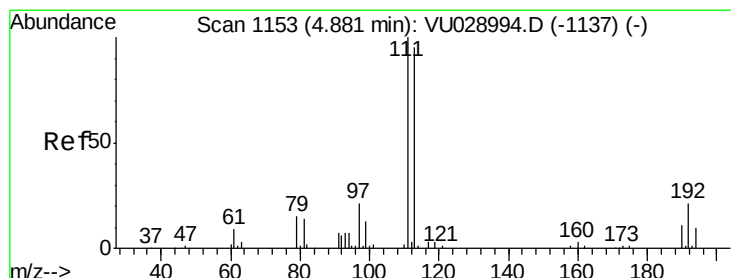
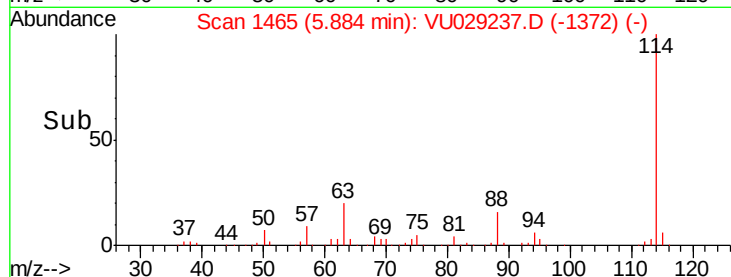
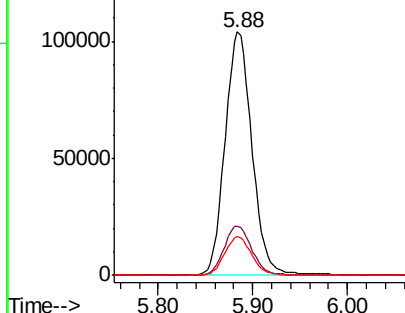
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU029237.D
 Acq: 21 Jan 2019 10:32

Instrument :
 MSVOA_U
 ClientSampled :
 PB116506TB

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.2
88	15.8	0.0	30.4

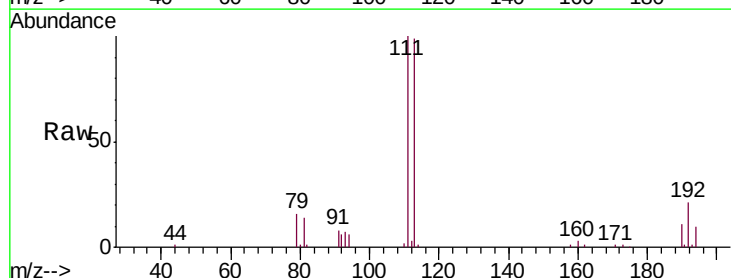


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

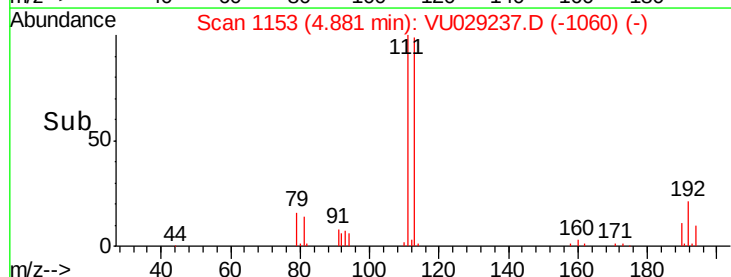
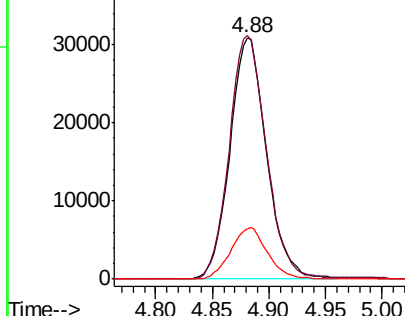


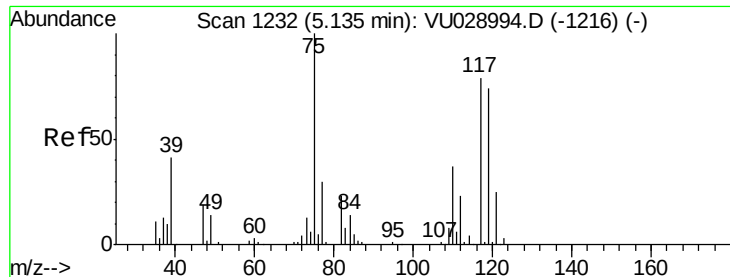
#35
 Dibromofluoromethane
 Concen: 51.878 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029237.D
 Acq: 21 Jan 2019 10:32

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.4	122.2
192	21.2	16.8	25.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

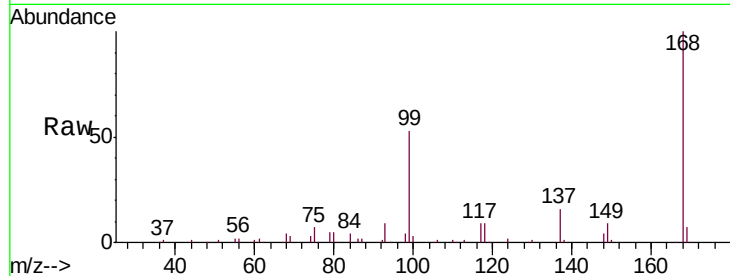




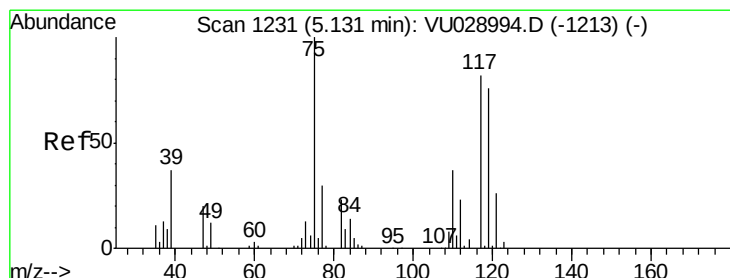
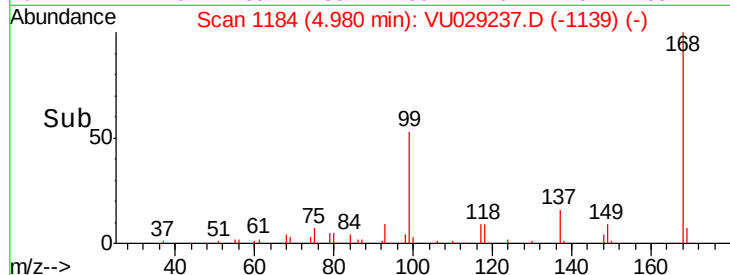
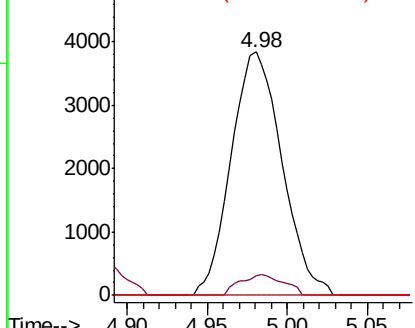
#36
 1,1-Dichloropropene
 Concen: 4.052 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029237.D
 Acq: 21 Jan 2019 10:32

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506TB

Tgt Ion: 75 Resp: 8346
 Ion Ratio Lower Upper
 75 100
 110 7.2 18.4 55.4#
 77 0.0 25.1 37.7#

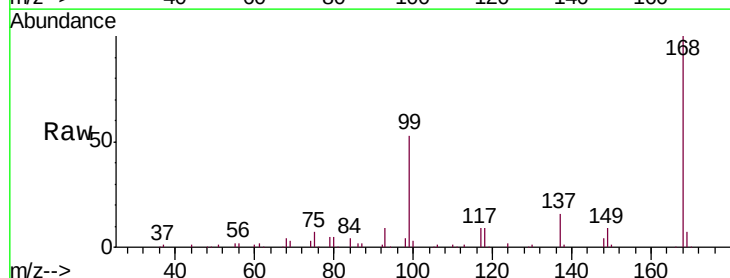


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

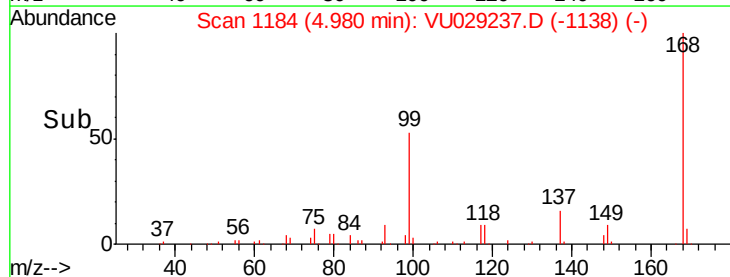
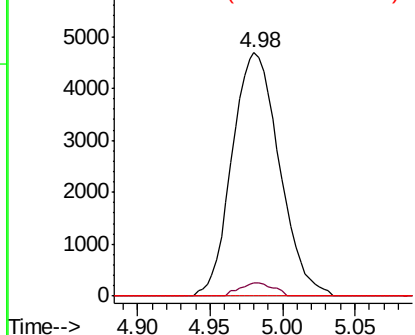


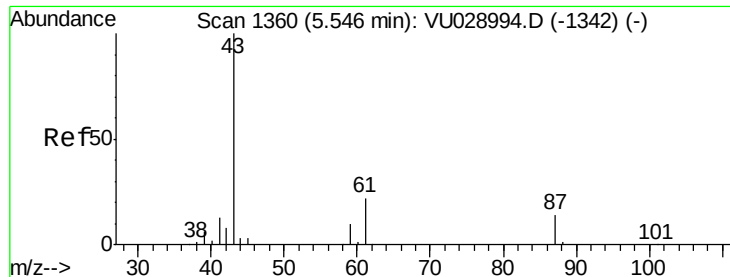
#38
 Carbon Tetrachloride
 Concen: 6.188 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029237.D
 Acq: 21 Jan 2019 10:32

Tgt Ion: 117 Resp: 10629
 Ion Ratio Lower Upper
 117 100
 119 5.2 74.6 111.8#
 121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

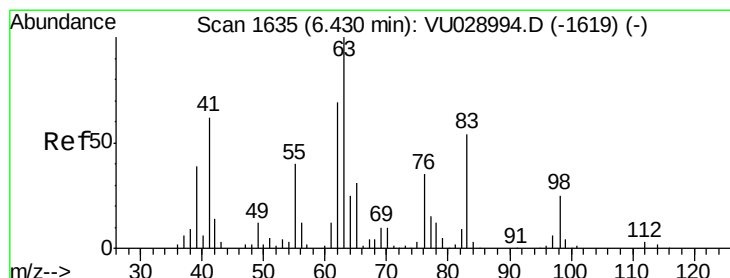
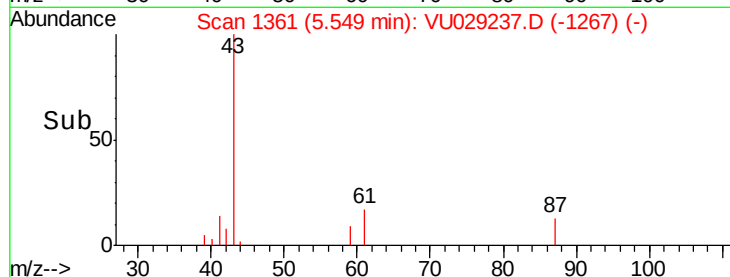
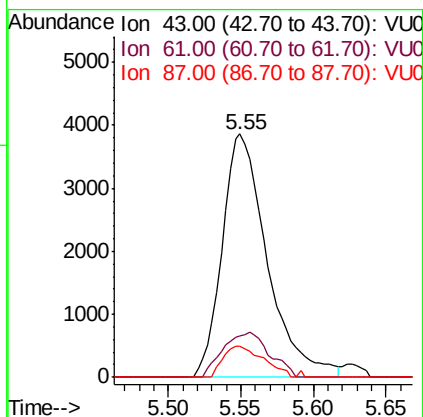
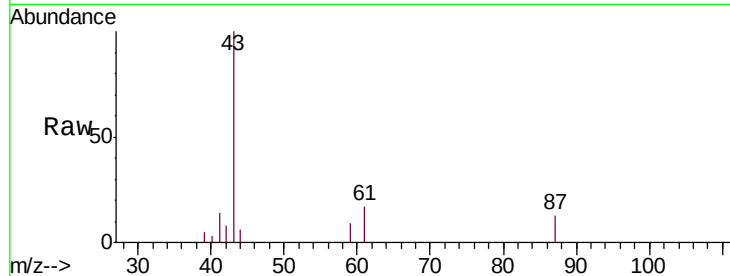




#43
Isopropyl Acetate
Concen: 2.396 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. 0.00 min
Lab File: VU029237.D
Acq: 21 Jan 2019 10:32

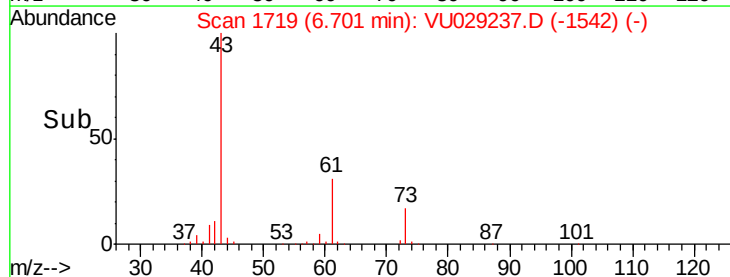
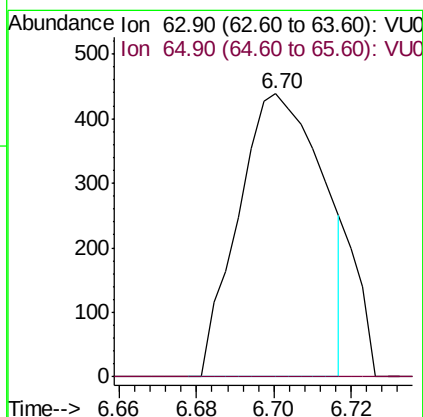
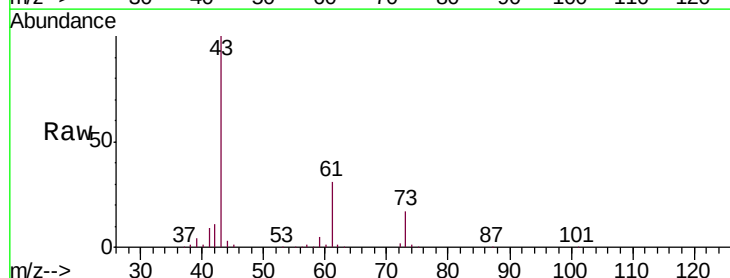
Instrument :
MSVOA_U
ClientSampleId :
PB116506TB

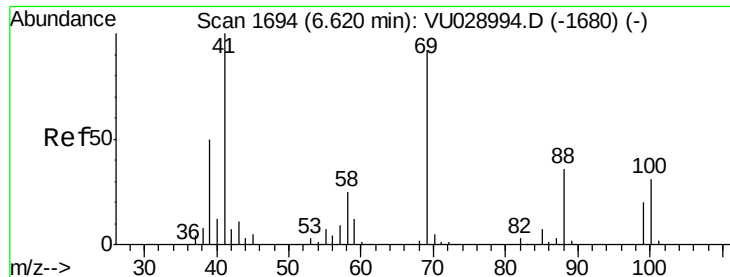
Tgt Ion: 43 Resp: 8310
Ion Ratio Lower Upper
43 100
61 19.0 17.8 26.6
87 11.4 11.3 16.9



#45
1,2-Dichloropropane
Concen: 0.393 ug/l
RT: 6.70 min Scan# 1719
Delta R.T. 0.27 min
Lab File: VU029237.D
Acq: 21 Jan 2019 10:32

Tgt Ion: 63 Resp: 667
Ion Ratio Lower Upper
63 100
65 0.0 25.1 37.7#





#48

Methyl methacrylate

Concen: 31.687 ug/l

RT: 6.70 min Scan# 1719

Delta R.T. 0.08 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506TB

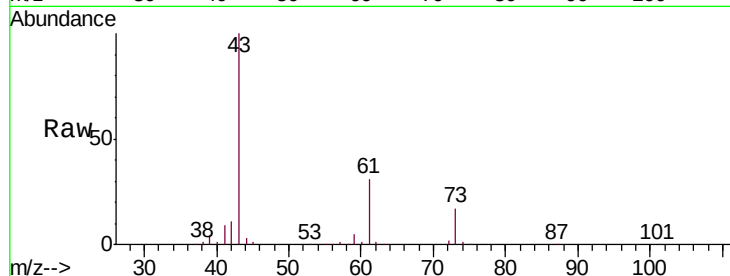
Tgt Ion: 41 Resp: 53506

Ion Ratio Lower Upper

41 100

69 0.0 73.6 110.4#

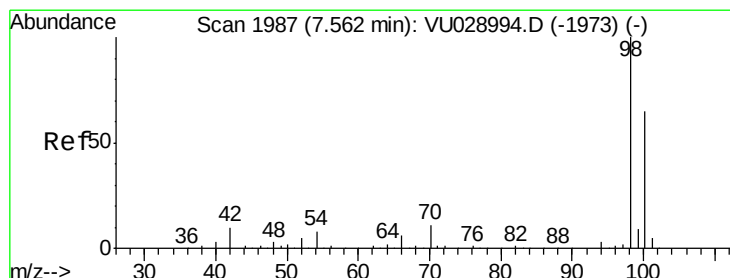
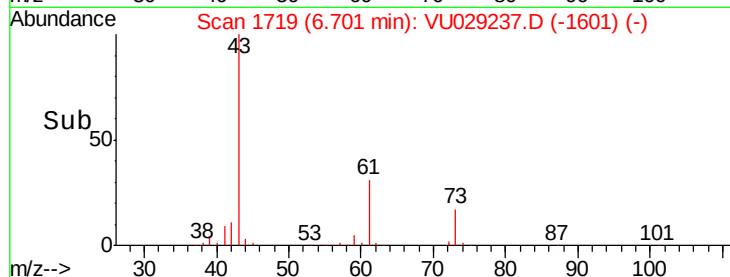
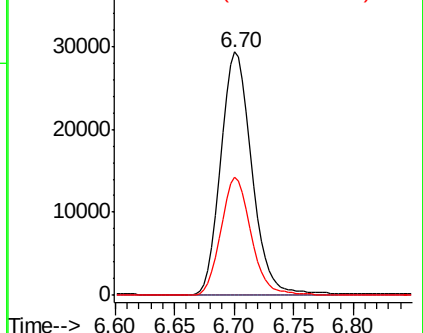
39 46.8 39.6 59.4



Abundance Ion 41.00 (40.70 to 41.70): VU029237.D (-1601) (-)

Ion 69.00 (68.70 to 69.70): VU029237.D (-1601) (-)

Ion 39.00 (38.70 to 39.70): VU029237.D (-1601) (-)



#50

Toluene-d8

Concen: 50.901 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029237.D

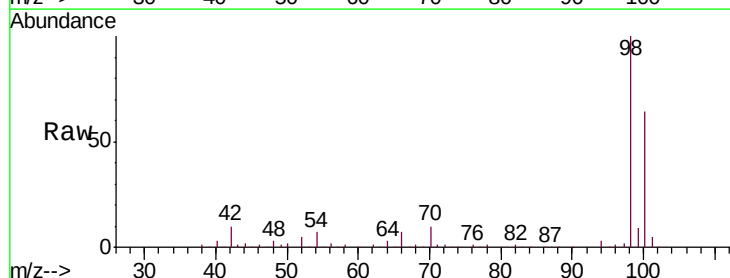
Acq: 21 Jan 2019 10:32

Tgt Ion: 98 Resp: 268399

Ion Ratio Lower Upper

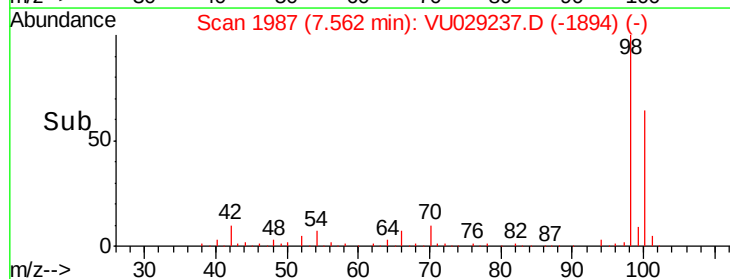
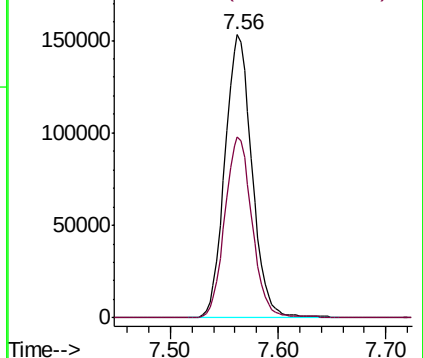
98 100

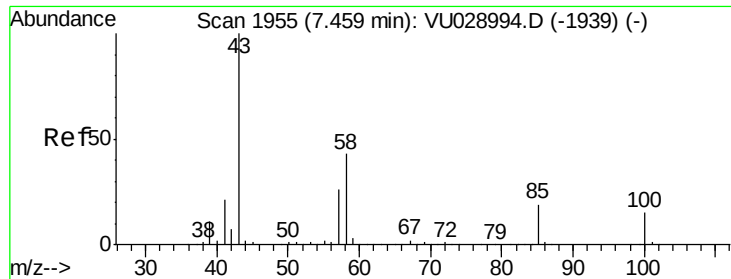
100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU029237.D (-1894) (-)

Ion 100.00 (99.70 to 100.70): VU029237.D (-1894) (-)





#51

4-Methyl-2-Pentanone

Concen: 16.900 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. -0.04 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

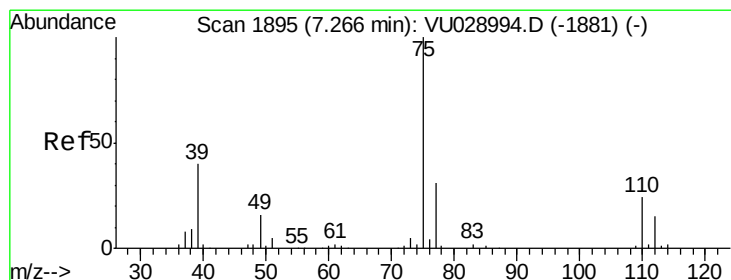
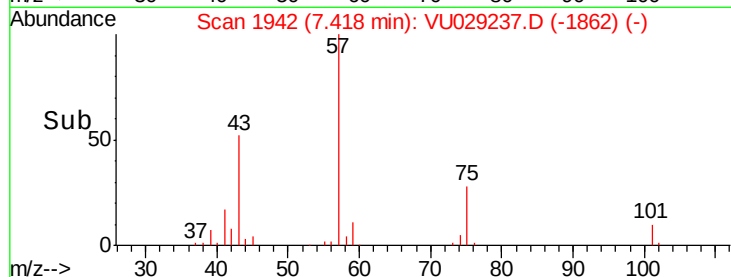
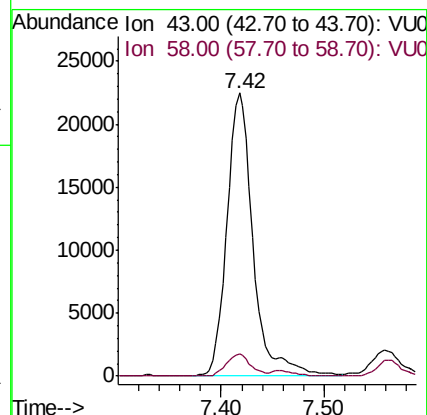
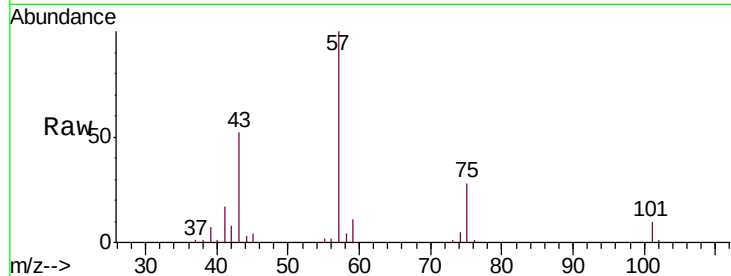
PB116506TB

Tgt Ion: 43 Resp: 39885

Ion Ratio Lower Upper

43 100

58 7.0 33.9 50.9#



#54

cis-1,3-Dichloropropene

Concen: 7.929 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

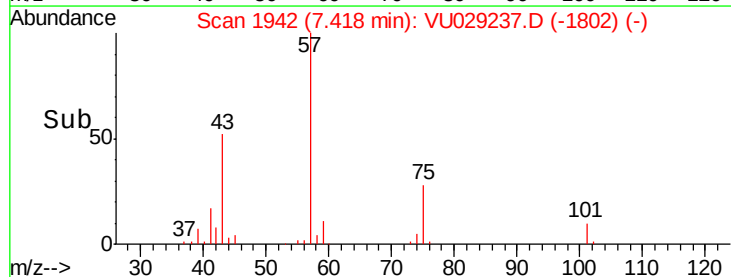
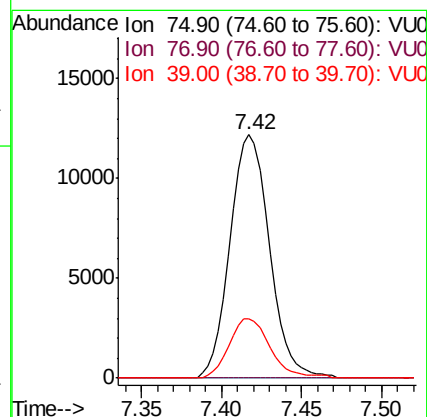
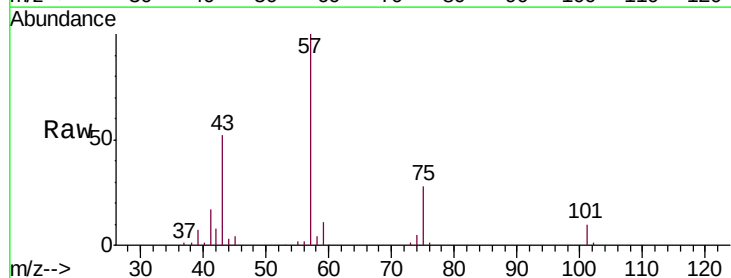
Tgt Ion: 75 Resp: 20550

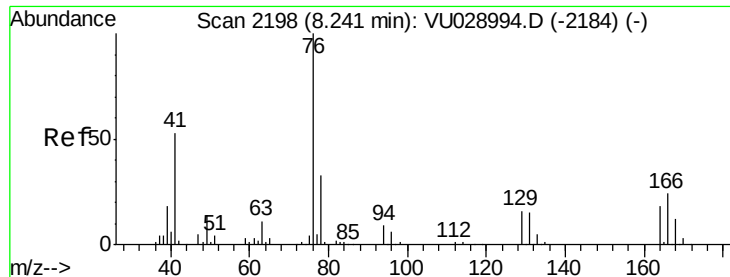
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 24.5 32.2 48.4#

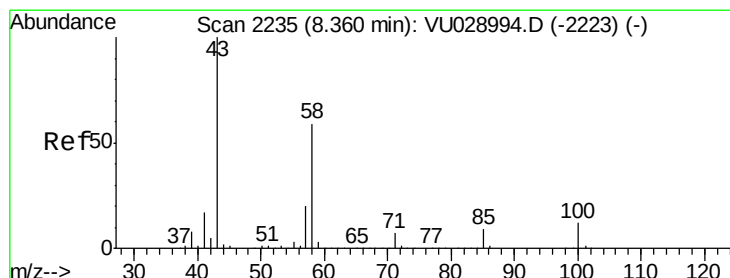
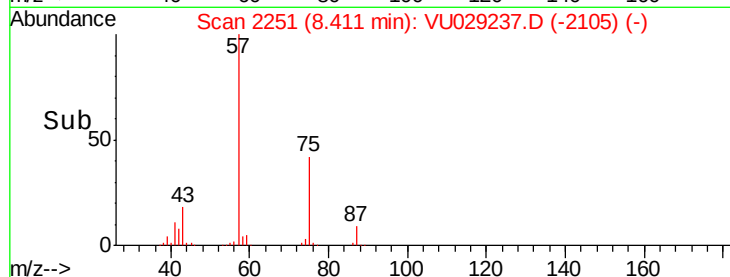
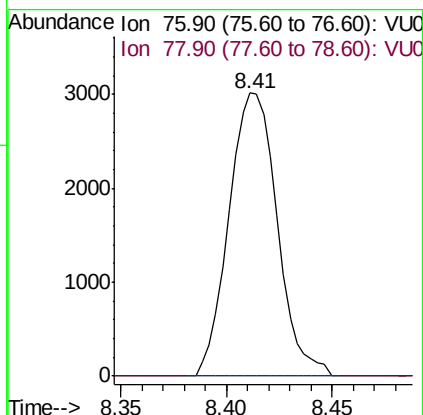
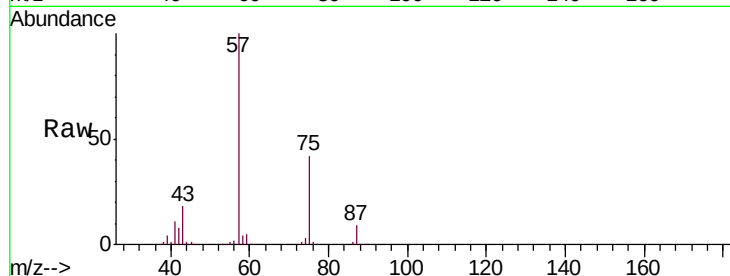




#57
 1,3-Dichloropropane
 Concen: 1.788 ug/l
 RT: 8.41 min Scan# 2251
 Delta R.T. 0.17 min
 Lab File: VU029237.D
 Acq: 21 Jan 2019 10:32

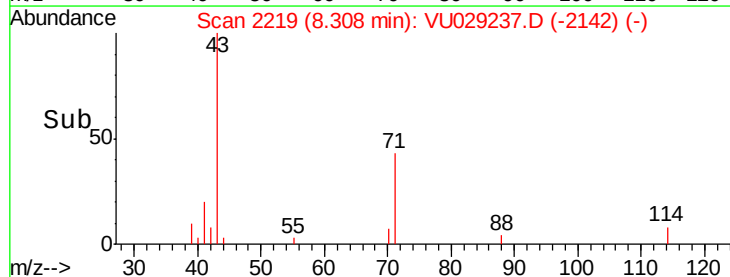
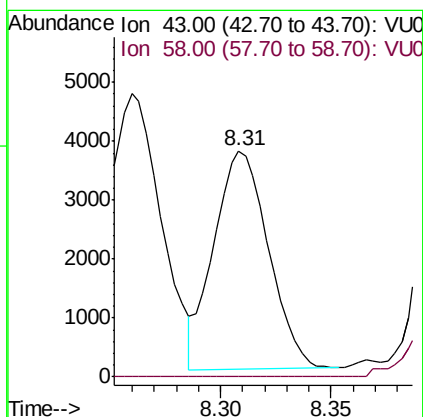
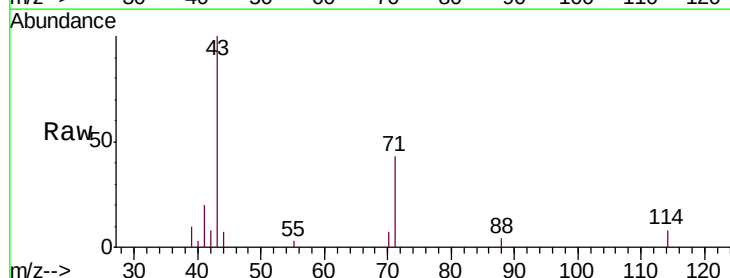
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506TB

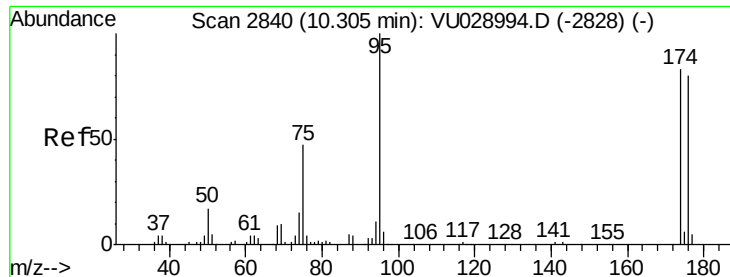
Tgt Ion: 76 Resp: 4794
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 3.422 ug/l
 RT: 8.31 min Scan# 2219
 Delta R.T. -0.05 min
 Lab File: VU029237.D
 Acq: 21 Jan 2019 10:32

Tgt Ion: 43 Resp: 6340
 Ion Ratio Lower Upper
 43 100
 58 0.0 29.8 89.4#





#62

4-Bromofluorobenzene

Concen: 39.933 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506TB

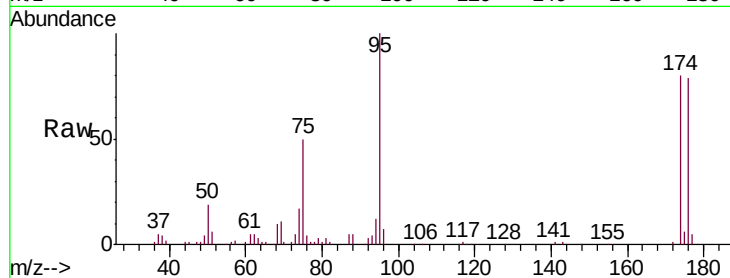
Tgt Ion: 95 Resp: 75674

Ion Ratio Lower Upper

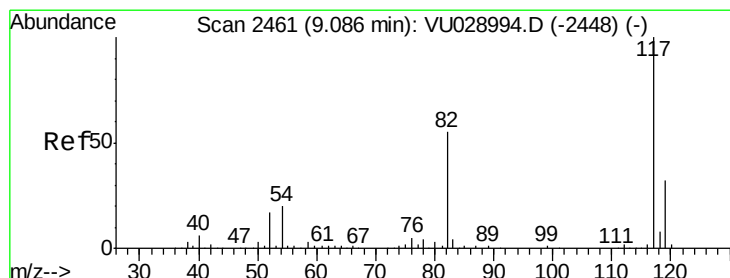
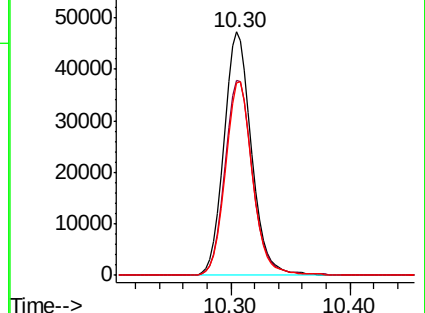
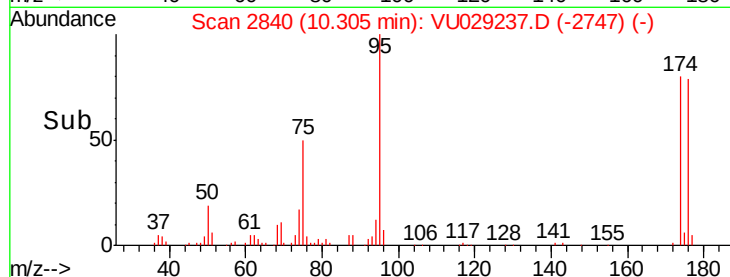
95 100

174 80.6 0.0 170.6

176 78.2 0.0 165.0



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

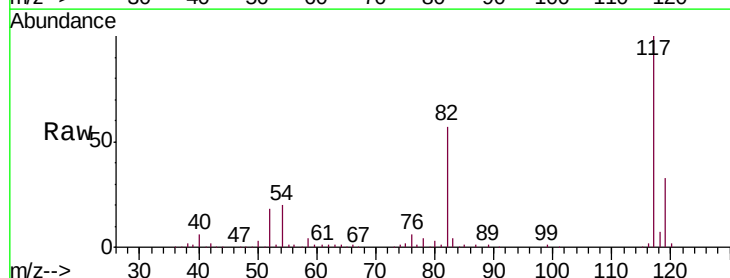
Tgt Ion: 117 Resp: 192408

Ion Ratio Lower Upper

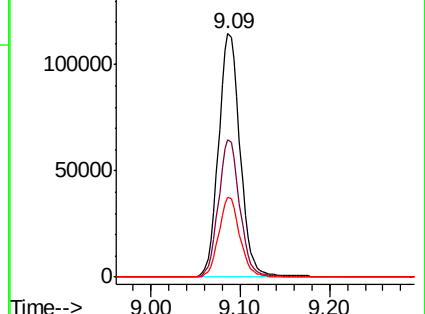
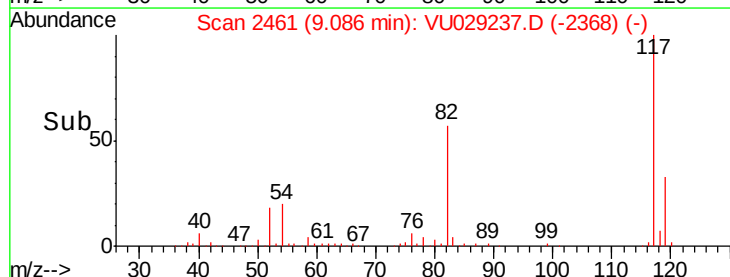
117 100

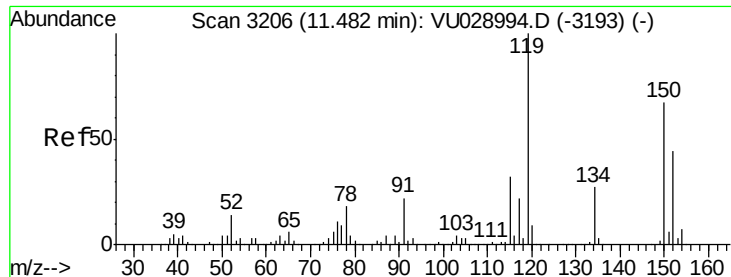
82 56.7 43.9 65.9

119 32.8 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VU028994.D (-2448) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506TB

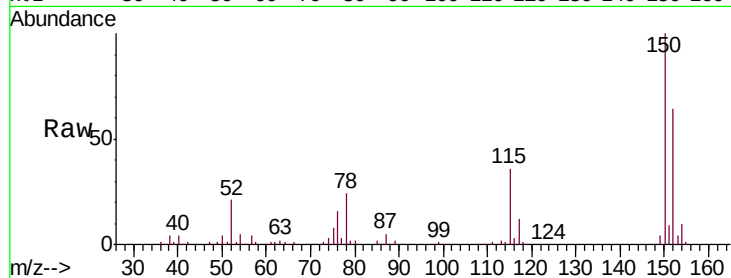
Tgt Ion:152 Resp: 78171

Ion Ratio Lower Upper

152 100

115 56.5 40.1 120.3

150 156.4 0.0 345.2

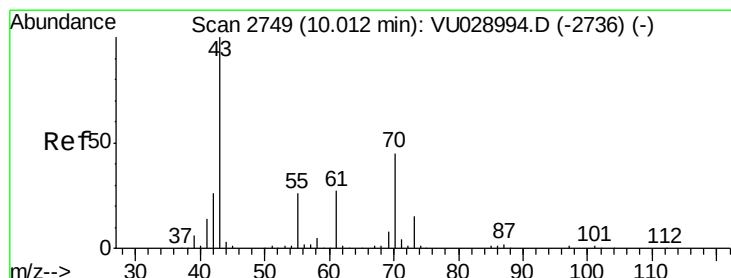
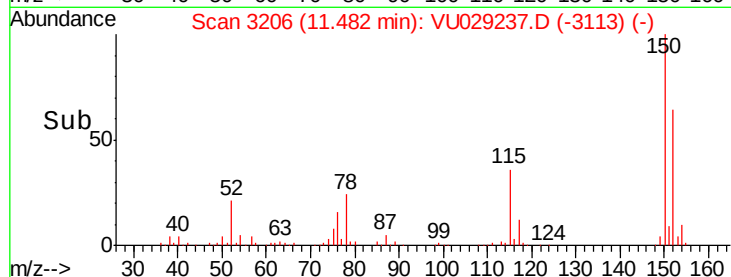
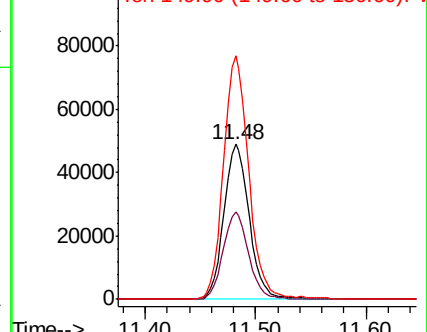


Abundance

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: 2.384 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Tgt Ion: 43 Resp: 5944

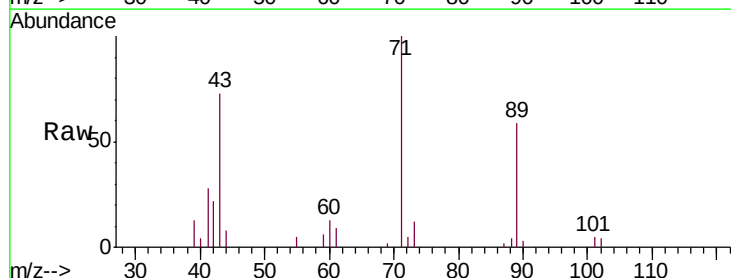
Ion Ratio Lower Upper

43 100

70 0.3 36.3 54.5#

55 4.5 20.5 30.7#

61 9.4 21.8 32.8#



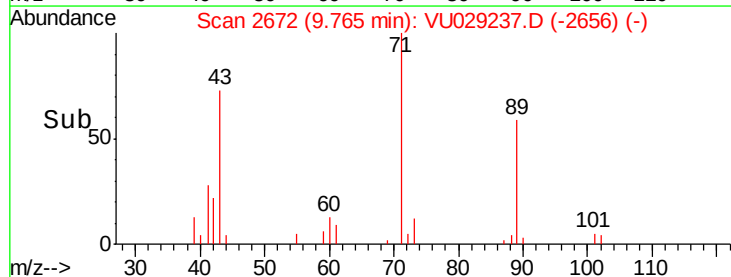
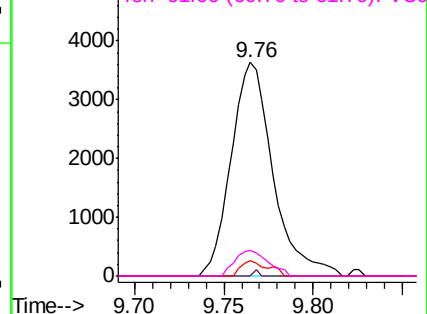
Abundance

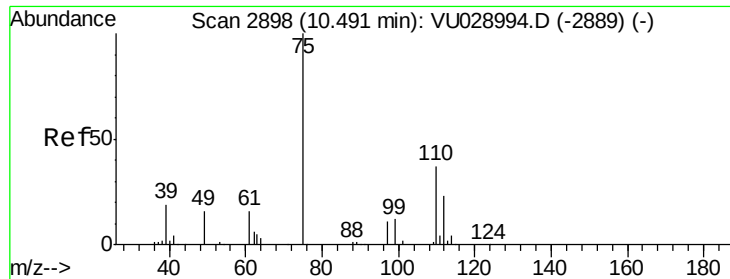
Ion 43.00 (42.70 to 43.70): VU0

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: 19.775 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

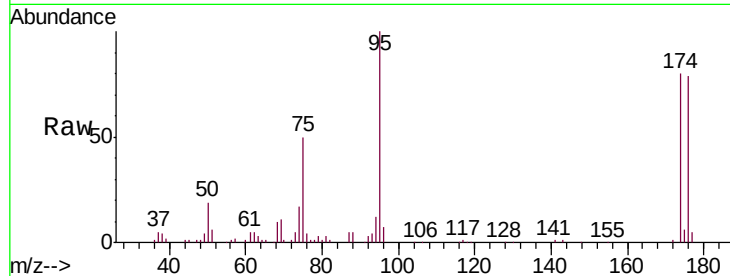
PB116506TB

Tgt Ion: 75 Resp: 37875

Ion Ratio Lower Upper

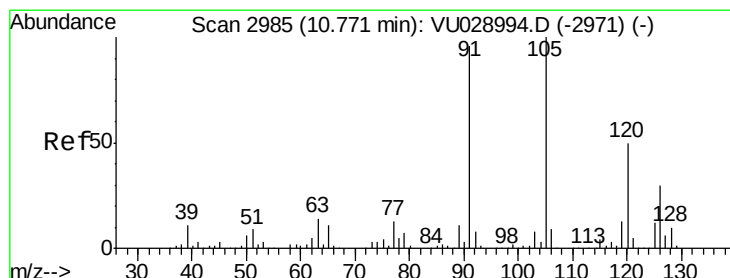
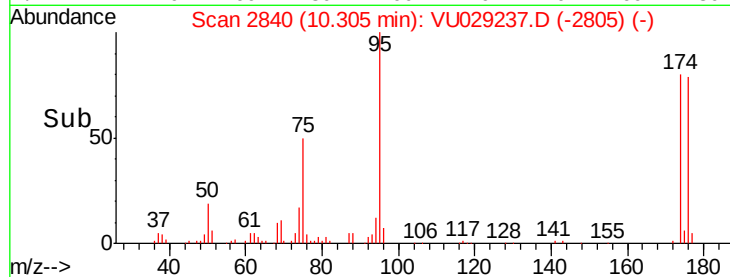
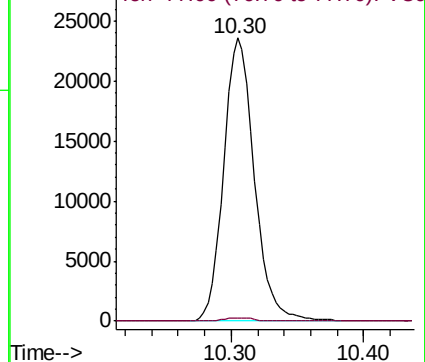
75 100

77 1.0 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#80

1,3,5-Trimethylbenzene

Concen: 0.440 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029237.D

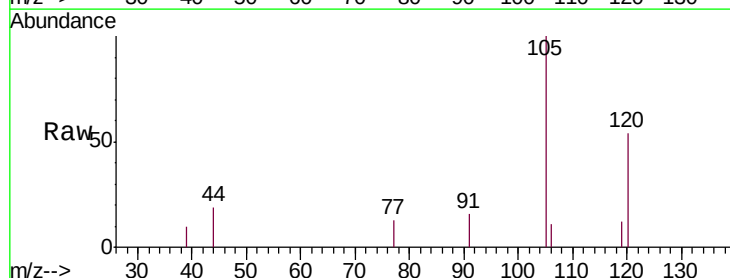
Acq: 21 Jan 2019 10:32

Tgt Ion: 105 Resp: 2128

Ion Ratio Lower Upper

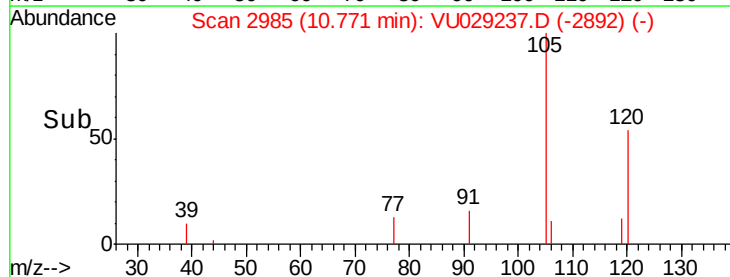
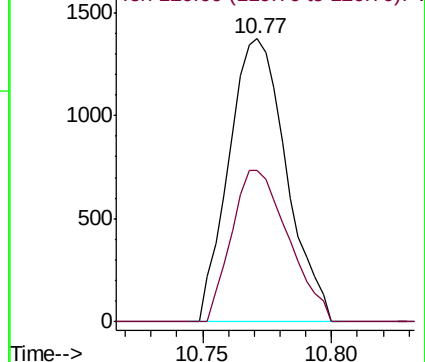
105 100

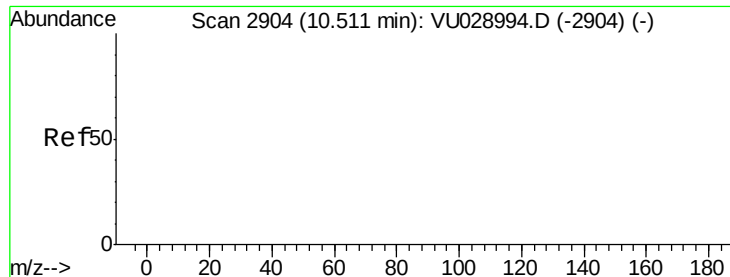
120 52.9 24.8 74.4



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: 51.000 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Instrument :

MSVOA_U

ClientSampleId :

PB116506TB

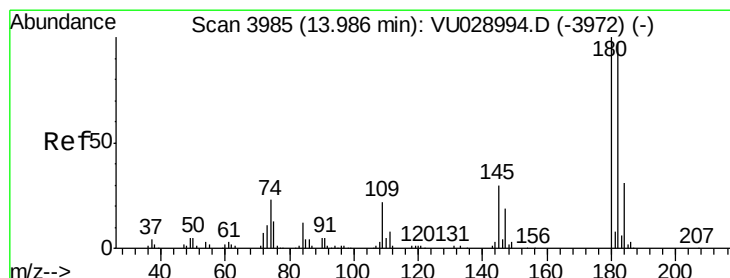
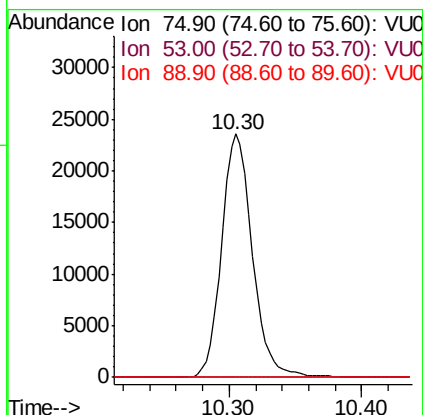
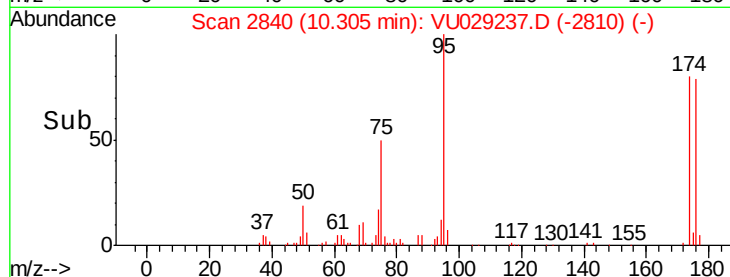
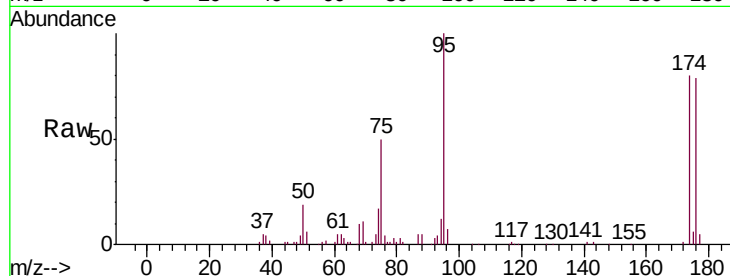
Tgt Ion: 75 Resp: 37875

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#96

1,2,3-Trichlorobenzene

Concen: 0.840 ug/l

RT: 14.02 min Scan# 3994

Delta R.T. 0.03 min

Lab File: VU029237.D

Acq: 21 Jan 2019 10:32

Tgt Ion: 180 Resp: 120

Ion Ratio Lower Upper

180 100

182 57.5 48.1 144.3

145 0.0 14.8 44.4#

