

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110518\
 Data File : VU027964.D
 Acq On : 05 Nov 2018 17:51
 Operator : MD/SY
 Sample : PB114473ZHE#19
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 PB114473ZHE#19

Quant Time: Nov 06 03:26:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	189739	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	354673	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	317960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	139214	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	156283	55.40	ug/l	0.00
Spiked Amount			Recovery	=	110.80%	
35) Dibromofluoromethane	4.89	113	116099	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	
50) Toluene-d8	7.57	98	456080	52.80	ug/l	0.00
Spiked Amount			Recovery	=	105.60%	
62) 4-Bromofluorobenzene	10.31	95	155953	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	

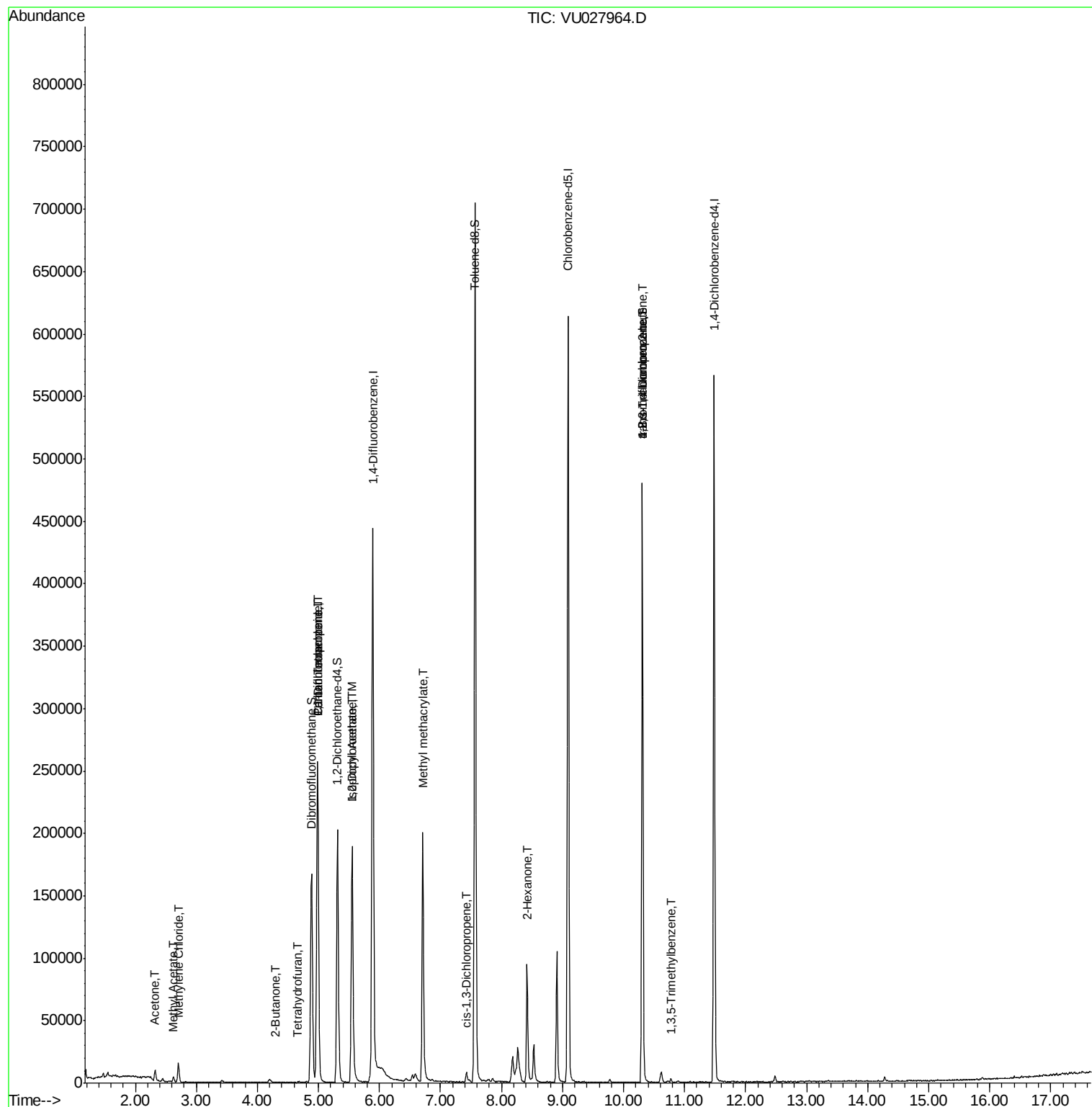
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.25	56	40	Below Cal	#	1
16) Acetone	2.32	43	9211	5.263	ug/l	98
18) Methyl Acetate	2.62	43	5143	1.068	ug/l	97
20) Methylene Chloride	2.70	84	6158	2.410	ug/l	90
25) 2-Butanone	4.30	43	955	0.343	ug/l #	54
29) Tetrahydrofuran	4.67	42	821	0.442	ug/l #	45
31) Cyclohexane	4.99	56	4694	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	16487	4.438	ug/l #	49
38) Carbon Tetrachloride	4.99	117	19248	5.847	ug/l #	16
42) 1,2-Dichloroethane	5.55	62	858	0.213	ug/l #	76
43) Isopropyl Acetate	5.55	43	229757	26.944	ug/l	100
48) Methyl methacrylate	6.71	41	18655	4.464	ug/l #	45
54) cis-1,3-Dichloropropene	7.43	75	1410	0.315	ug/l #	56
59) 2-Hexanone	8.42	43	14548	3.303	ug/l #	52
76) 1,2,3-Trichloropropane	10.31	75	82391	21.637	ug/l #	35
80) 1,3,5-Trimethylbenzene	10.77	105	1873	0.210	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.31	75	82391	54.002	ug/l #	100

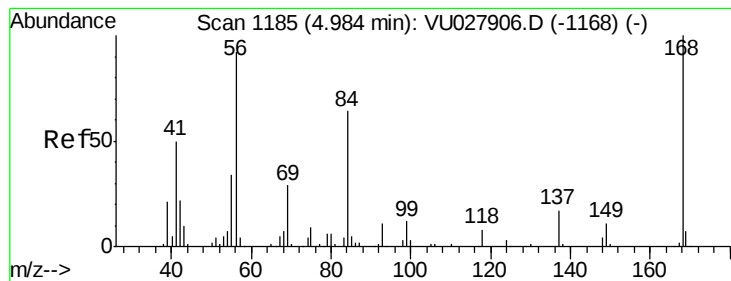
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 02 02:28:20 2018
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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: VU027964.D

Acq: 05 Nov 2018 17:51

Instrument :

MSVOA_U

ClientSampleId :

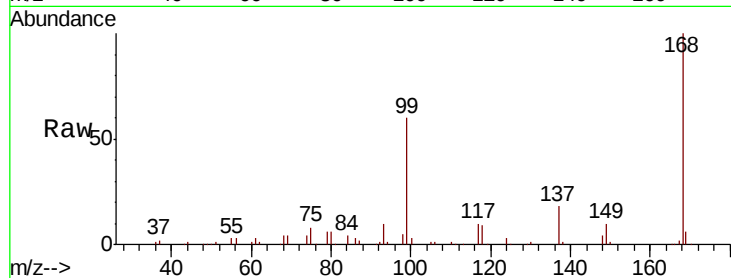
PB114473ZHE#19

Tot Ion:168 Resp: 189739

Ion Ratio Lower Upper

168 100

99 60.2 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)

4.99

80000

60000

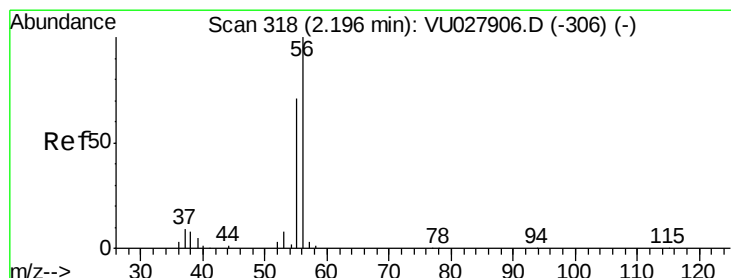
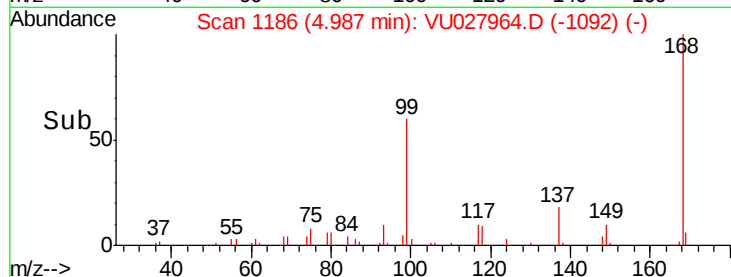
40000

20000

0

Time-->

4.90 5.00 5.10



#13

Acrolein

Concen: Below Cal

RT: 2.25 min Scan# 334

Delta R.T. 0.05 min

Lab File: VU027964.D

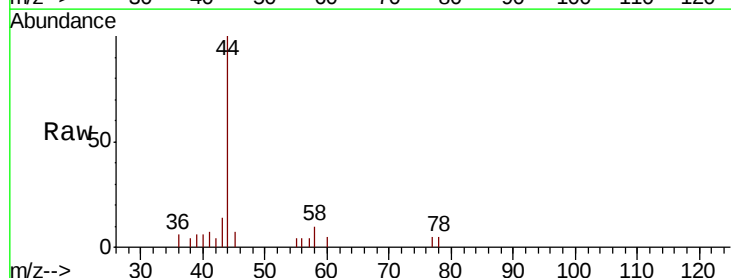
Acq: 05 Nov 2018 17:51

Tgt Ion: 56 Resp: 40

Ion Ratio Lower Upper

56 100

55 170.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU027906.D (-306) (-)

Ion 55.00 (54.70 to 55.70): VU027906.D (-306) (-)

2.25

150

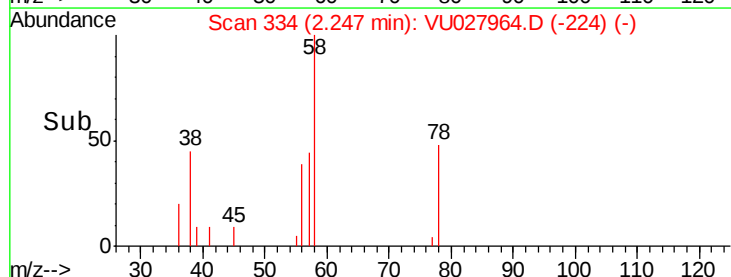
100

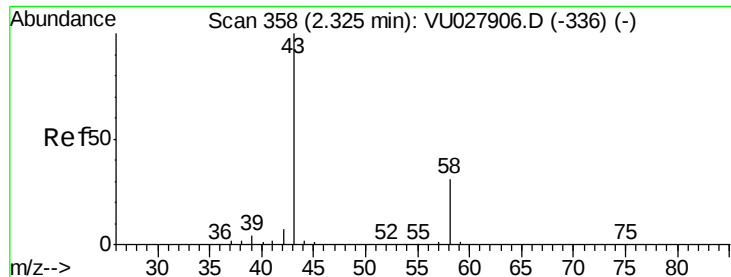
50

0

Time-->

2.23 2.24 2.25





#16

Acetone

Concen: 5.263 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

Instrument :

MSVOA_U

ClientSampleId :

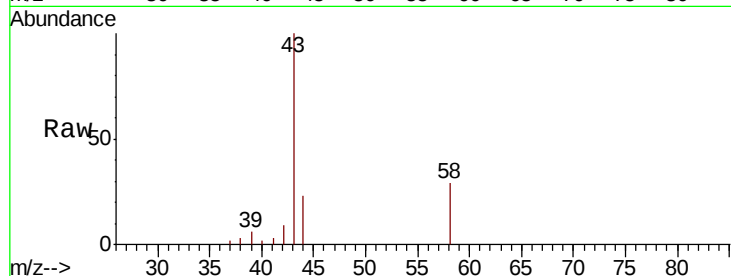
PB114473ZHE#19

Tot Ion: 43 Resp: 9211

Ion Ratio Lower Upper

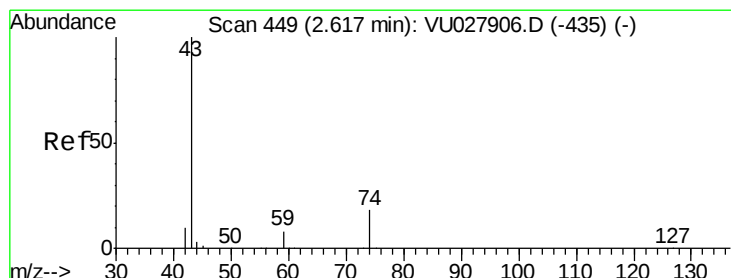
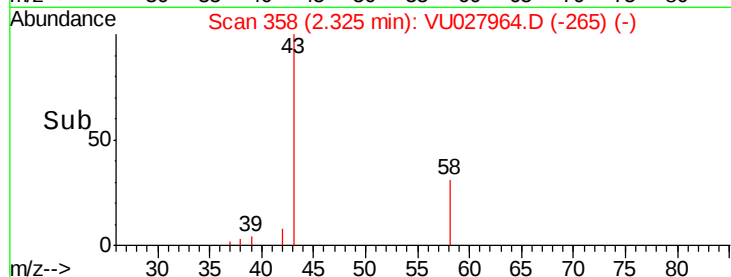
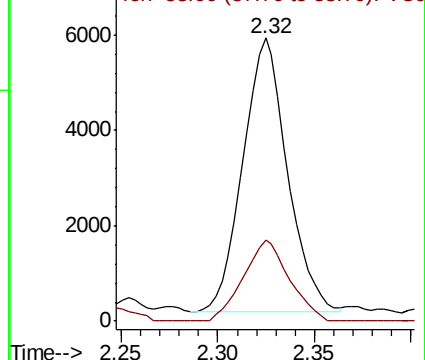
43 100

58 29.6 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 1.068 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU027964.D

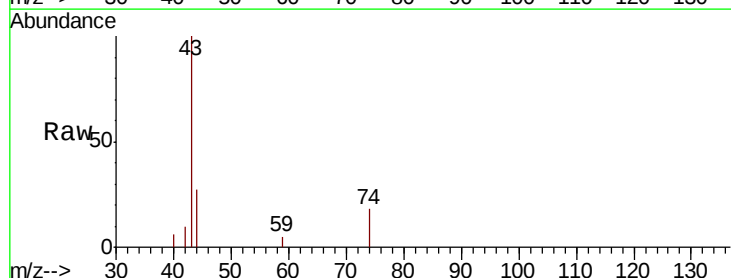
Acq: 05 Nov 2018 17:51

Tgt Ion: 43 Resp: 5143

Ion Ratio Lower Upper

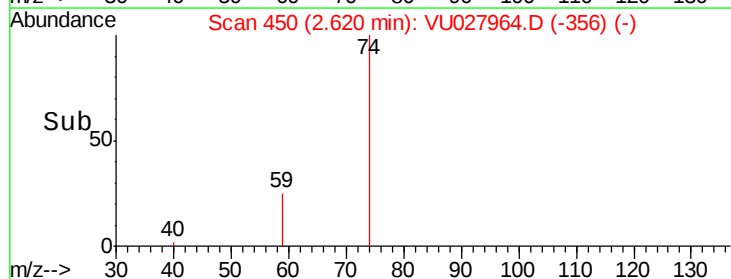
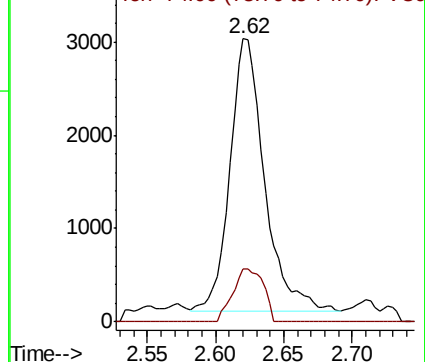
43 100

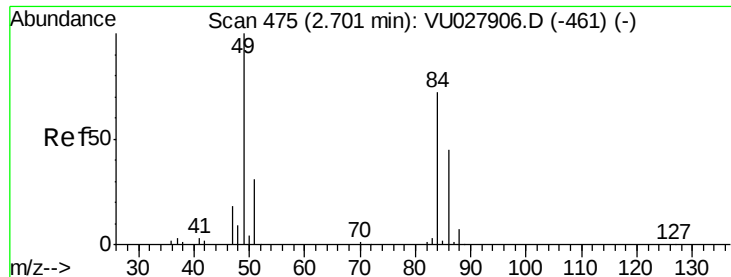
74 17.1 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

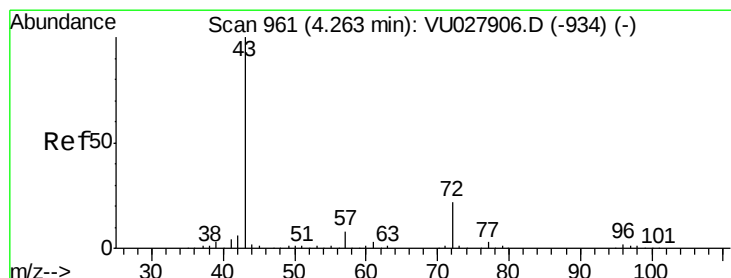
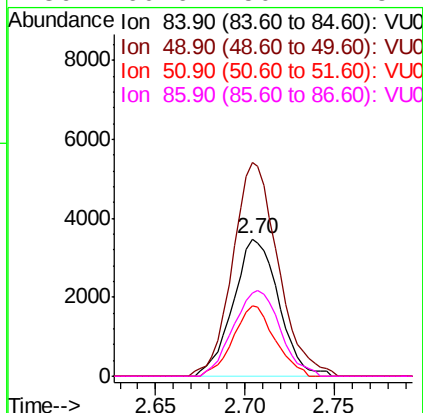
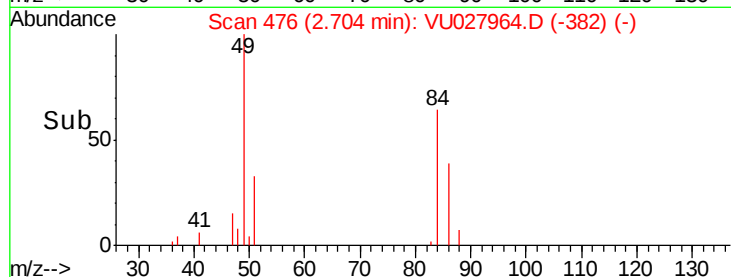
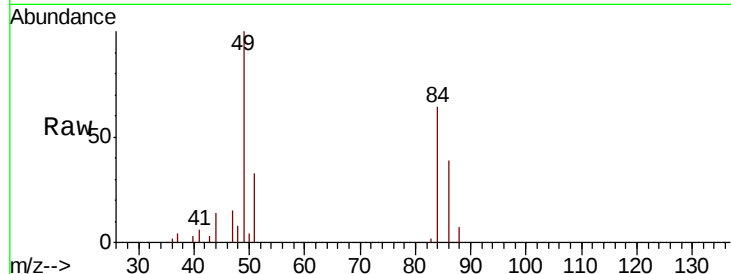




#20
Methvlene Chloride
Concen: 2.410 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU027964.D
Acq: 05 Nov 2018 17:51

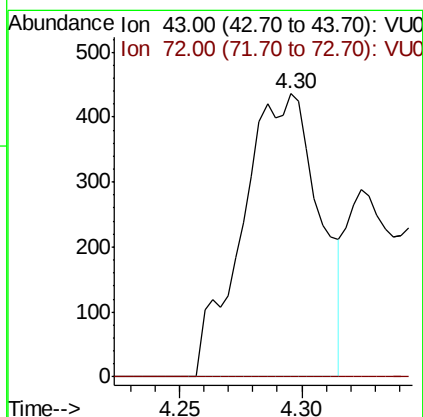
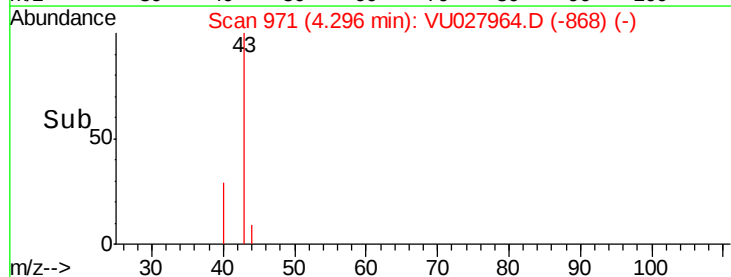
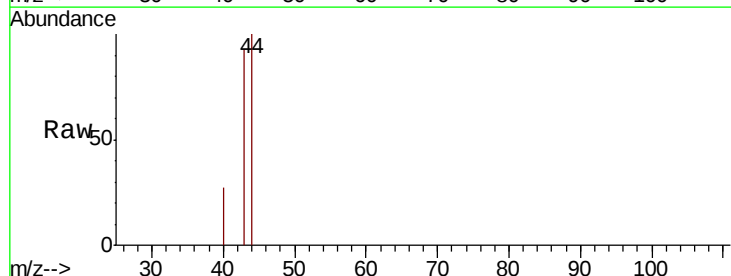
Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#19

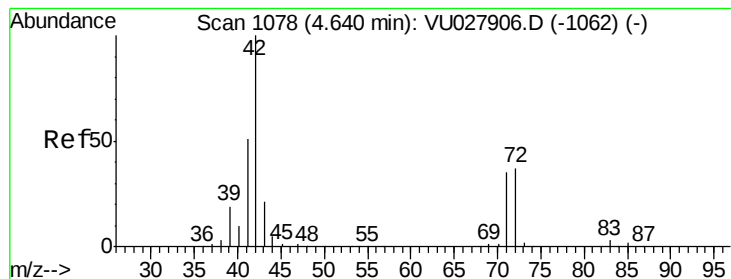
Tot Ion: 84 Resp: 6158
Ion Ratio Lower Upper
84 100
49 155.2 111.6 167.4
51 51.2 34.8 52.2
86 60.6 50.1 75.1



#25
2-Butanone
Concen: 0.343 ug/l
RT: 4.30 min Scan# 971
Delta R.T. 0.03 min
Lab File: VU027964.D
Acq: 05 Nov 2018 17:51

Tgt Ion: 43 Resp: 955
Ion Ratio Lower Upper
43 100
72 0.0 17.7 26.5#





#29

Tetrahydrofuran

Concen: 0.442 ug/l

RT: 4.67 min Scan# 1086

Delta R.T. 0.03 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#19

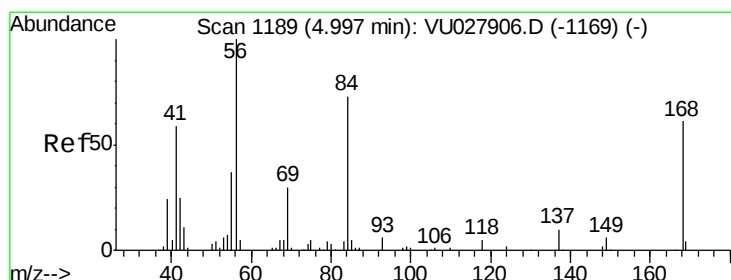
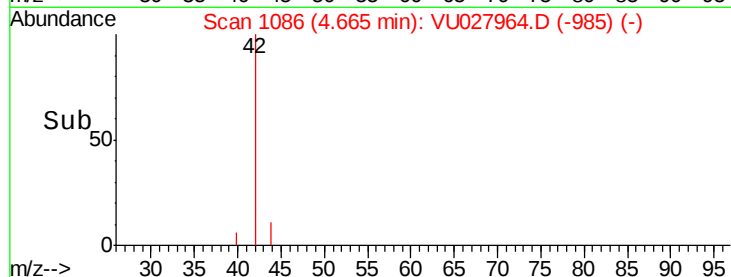
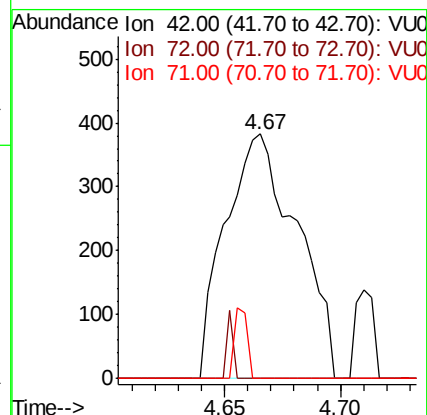
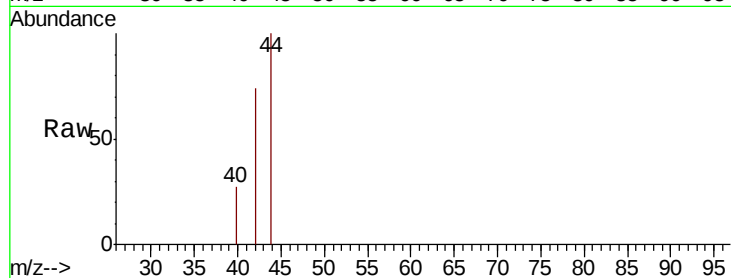
Tot Ion: 42 Resp: 821

Ion Ratio Lower Upper

42 100

72 2.4 29.4 44.0#

71 5.0 27.9 41.9#



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

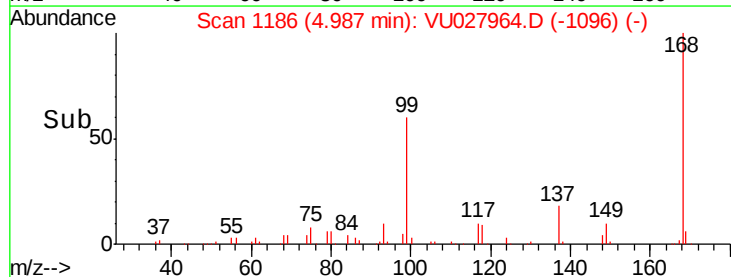
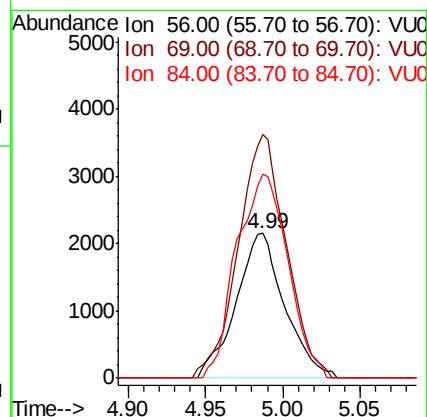
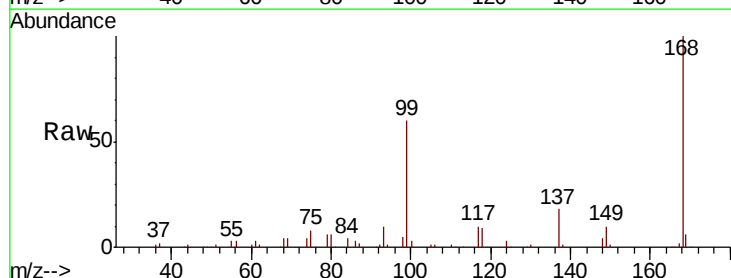
Tgt Ion: 56 Resp: 4694

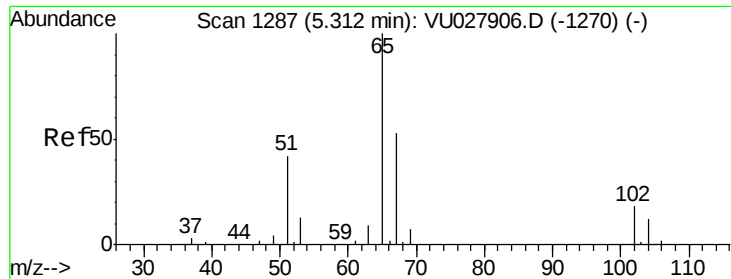
Ion Ratio Lower Upper

56 100

69 168.3 23.7 35.5#

84 140.7 58.2 87.4#

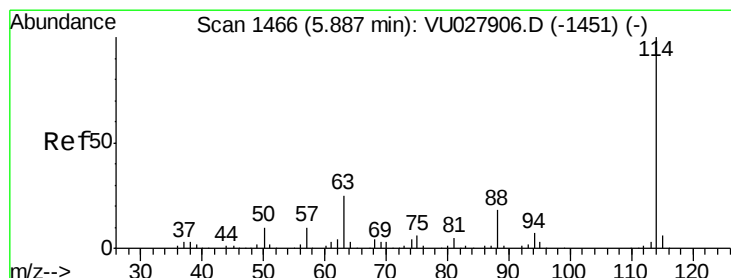
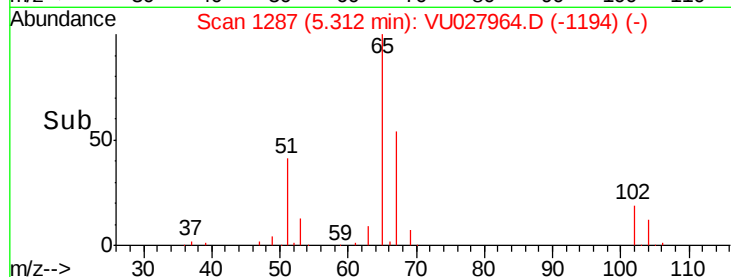
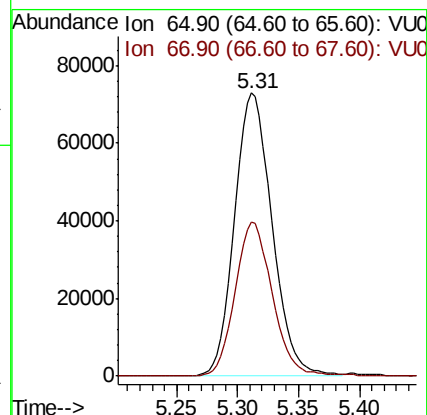
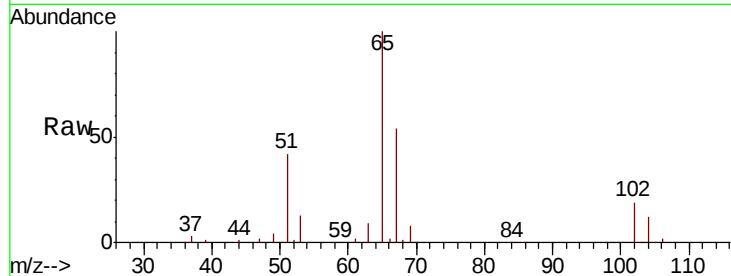




#33
 1,2-Dichloroethane-d4
 Concen: 55.401 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU027964.D
 Acq: 05 Nov 2018 17:51

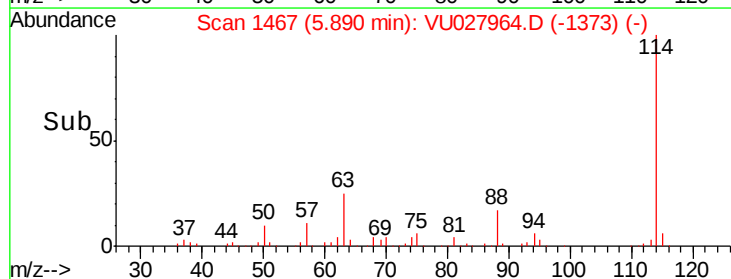
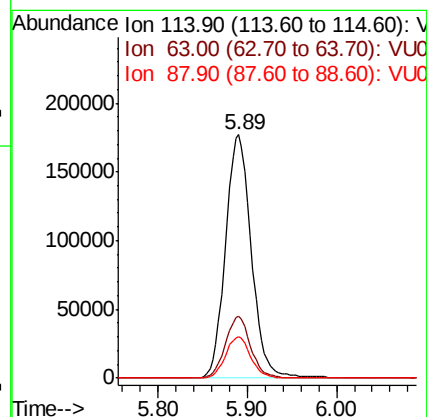
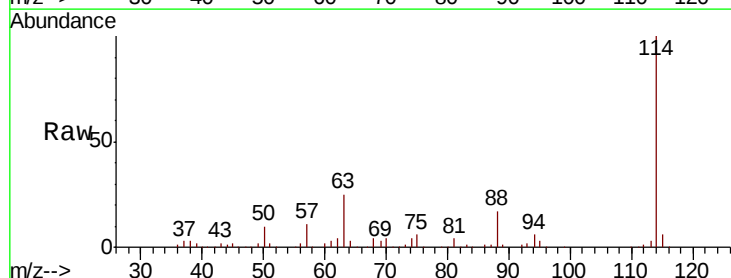
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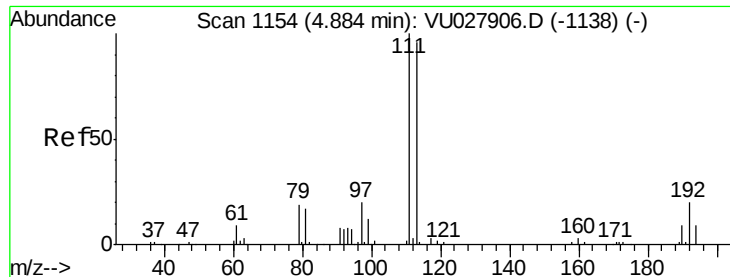
Tot Ion: 65 Resp: 156283
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027964.D
 Acq: 05 Nov 2018 17:51

Tgt Ion: 114 Resp: 354673
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 50.8
 88 16.9 0.0 35.8

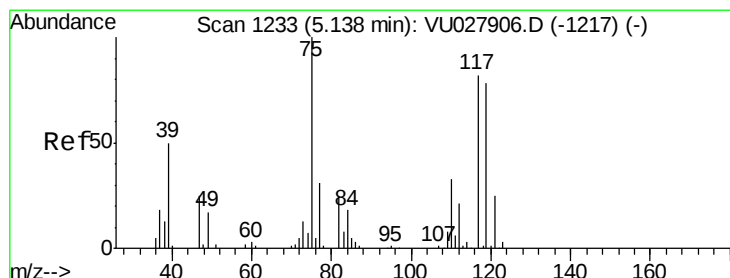
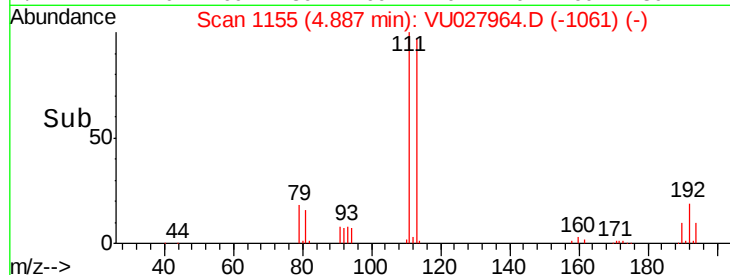
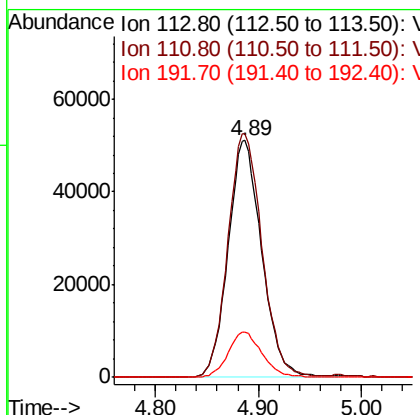
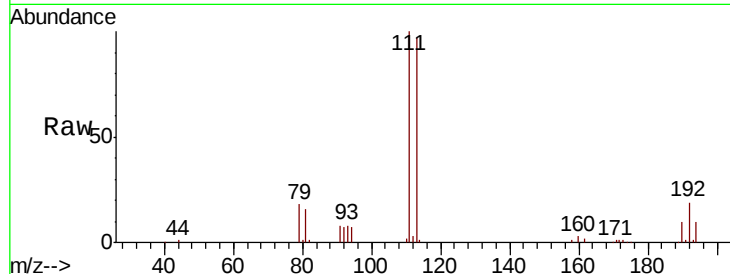




#35
 Dibromofluoromethane
 Concen: 51.916 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027964.D
 Acq: 05 Nov 2018 17:51

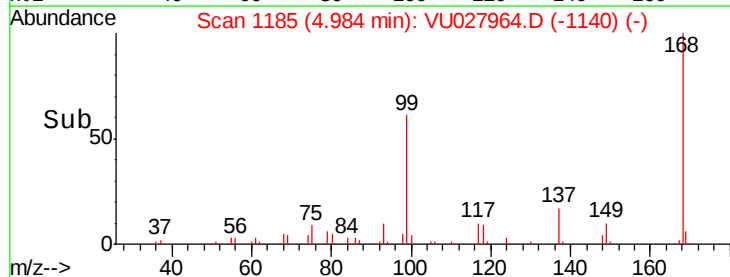
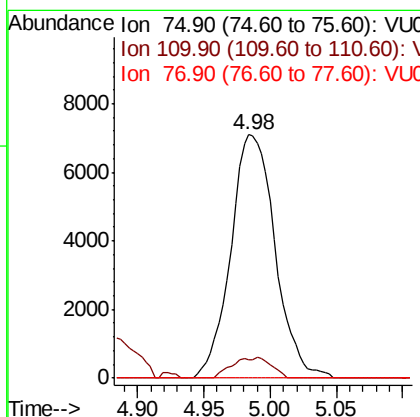
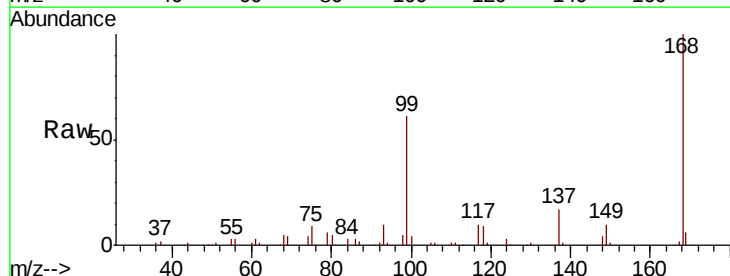
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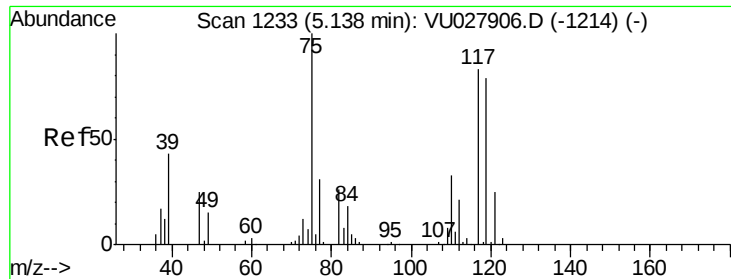
Tot Ion:113 Resp: 116099
 Ion Ratio Lower Upper
 113 100
 111 104.4 83.0 124.6
 192 19.2 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.438 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU027964.D
 Acq: 05 Nov 2018 17:51

Tgt Ion: 75 Resp: 16487
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.5 49.5#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 5.847 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#19

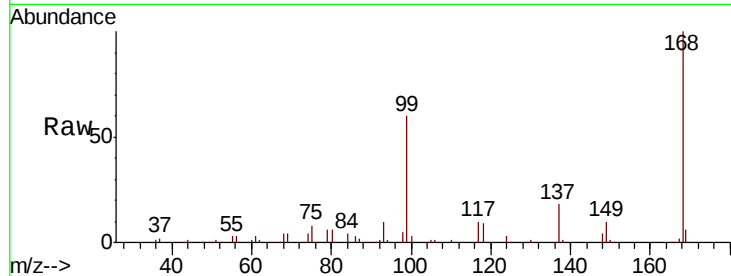
Tot Ion:117 Resp: 19248

Ion Ratio Lower Upper

117 100

119 4.8 76.0 114.0#

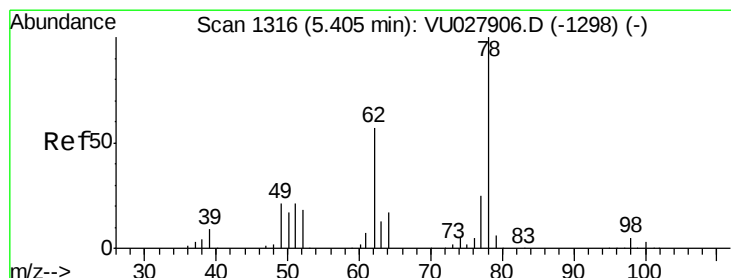
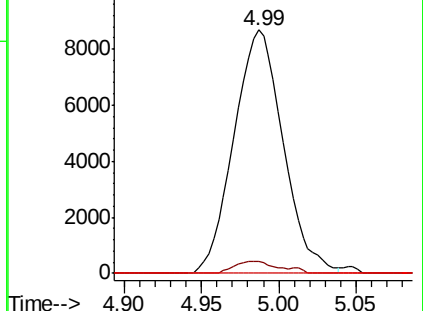
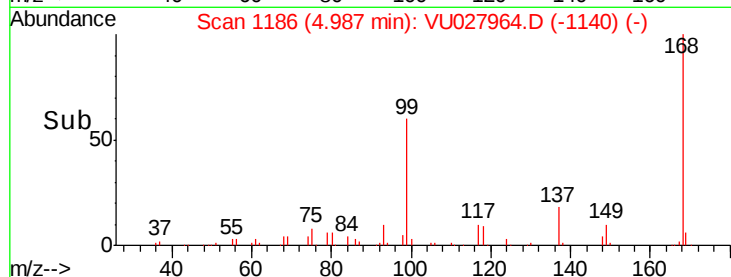
121 0.0 24.5 36.7#



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



#42

1,2-Dichloroethane

Concen: 0.213 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.14 min

Lab File: VU027964.D

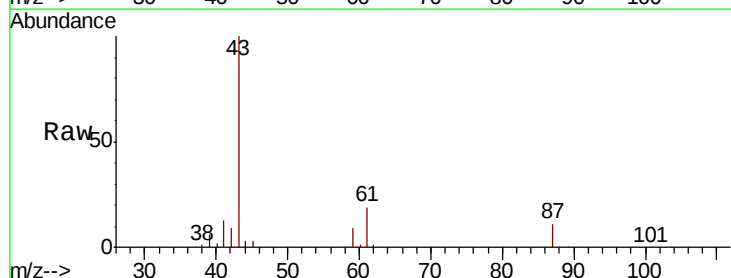
Acq: 05 Nov 2018 17:51

Tgt Ion: 62 Resp: 858

Ion Ratio Lower Upper

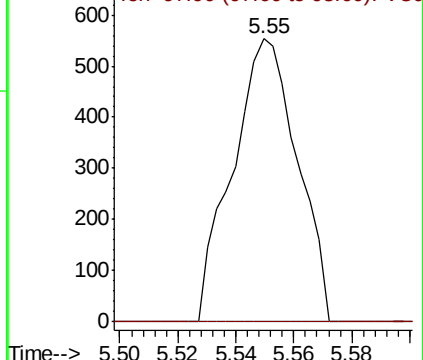
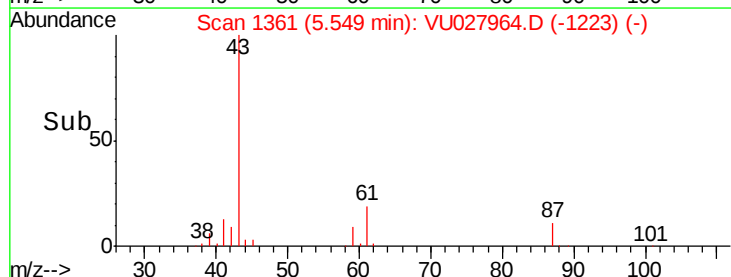
62 100

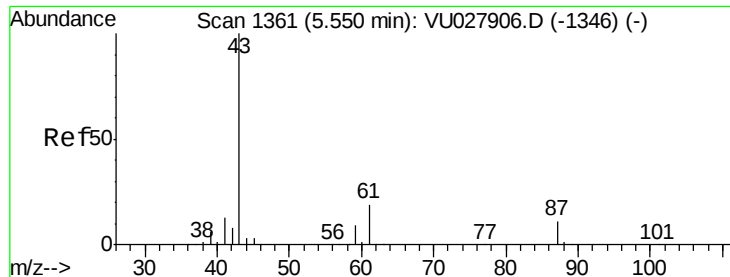
98 0.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 26.944 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

Instrument :

MSVOA_U

ClientSampleId :

PB114473ZHE#19

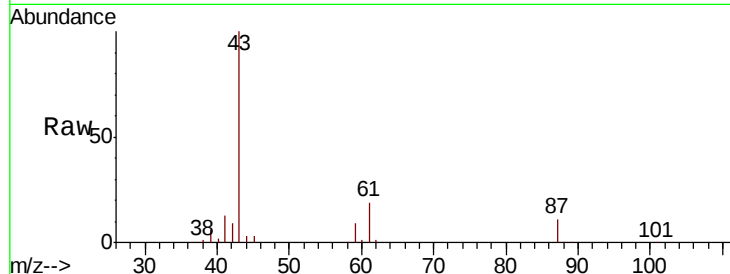
Tot Ion: 43 Resp: 229757

Ion Ratio Lower Upper

43 100

61 18.7 15.0 22.4

87 11.0 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1346) (-)

Ion 61.00 (60.70 to 61.70): VU027906.D (-1346) (-)

Ion 87.00 (86.70 to 87.70): VU027906.D (-1346) (-)

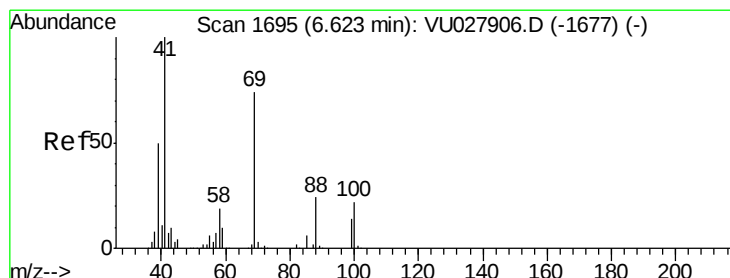
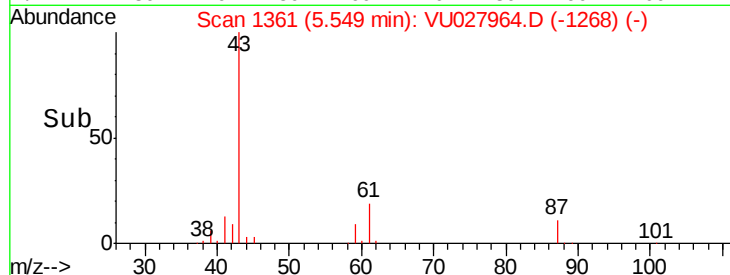
5.55

100000

50000

0

Time-->



#48

Methyl methacrylate

Concen: 4.464 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.08 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

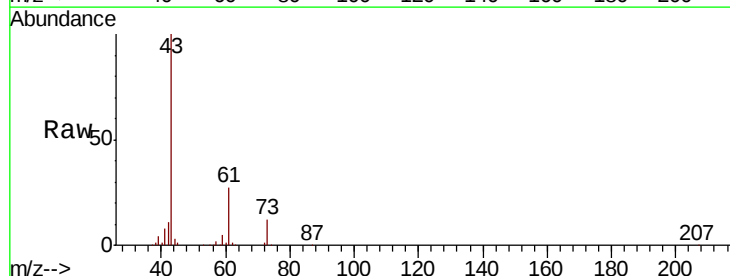
Tgt Ion: 41 Resp: 18655

Ion Ratio Lower Upper

41 100

69 0.0 59.8 89.8#

39 45.6 40.0 60.0



Abundance Ion 41.00 (40.70 to 41.70): VU027906.D (-1677) (-)

Ion 69.00 (68.70 to 69.70): VU027906.D (-1677) (-)

Ion 39.00 (38.70 to 39.70): VU027906.D (-1677) (-)

6.71

12000

10000

8000

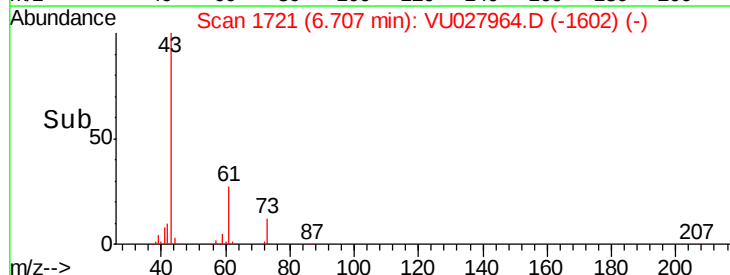
6000

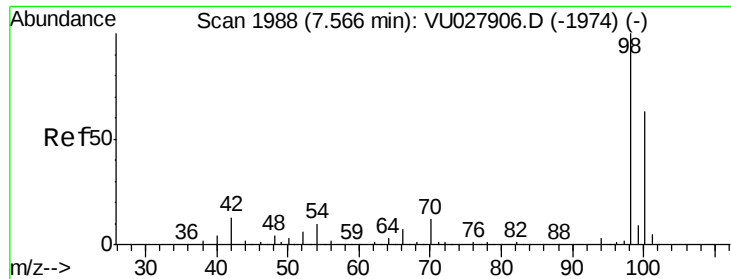
4000

2000

0

Time-->





#50

Toluene-d8

Concen: 52.796 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

Instrument :

MSVOA_U

ClientSampleId :

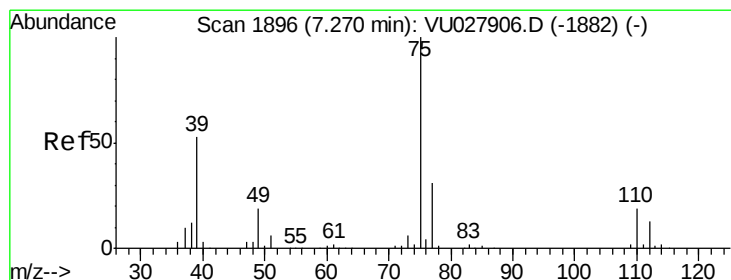
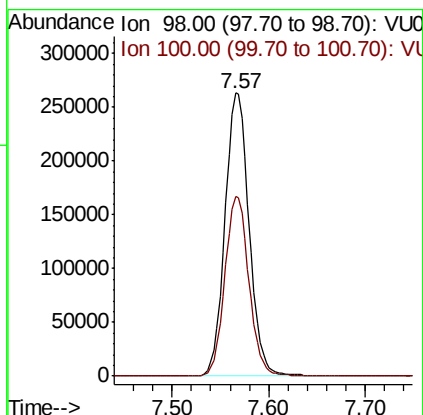
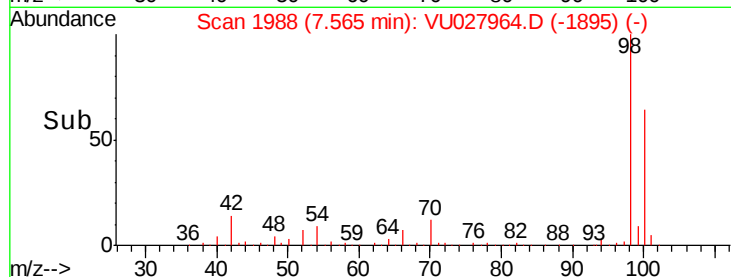
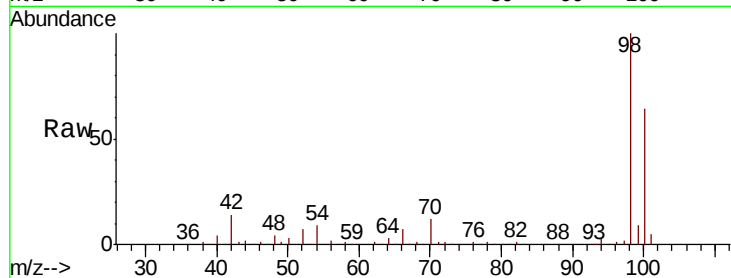
PB114473ZHE#19

Tot Ion: 98 Resp: 456080

Ion Ratio Lower Upper

98 100

100 63.3 50.1 75.1



#54

cis-1,3-Dichloropropene

Concen: 0.315 ug/l

RT: 7.43 min Scan# 1945

Delta R.T. 0.16 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

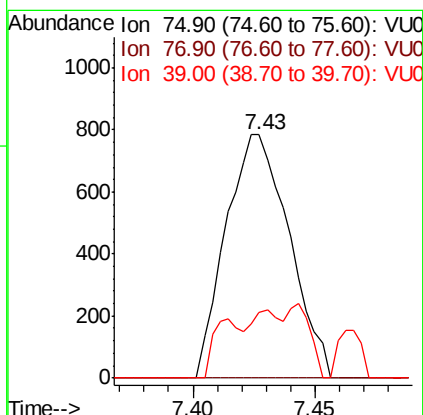
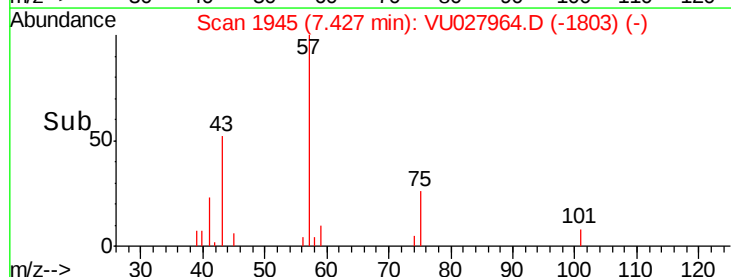
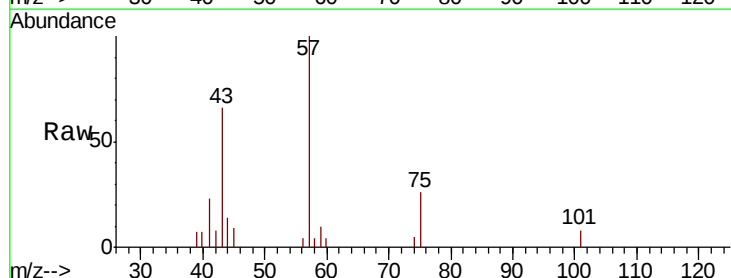
Tgt Ion: 75 Resp: 1410

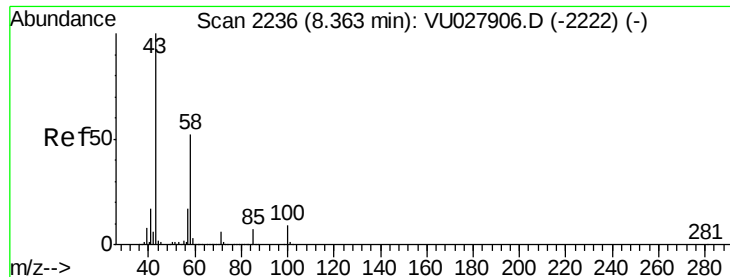
Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 27.0 42.6 64.0#

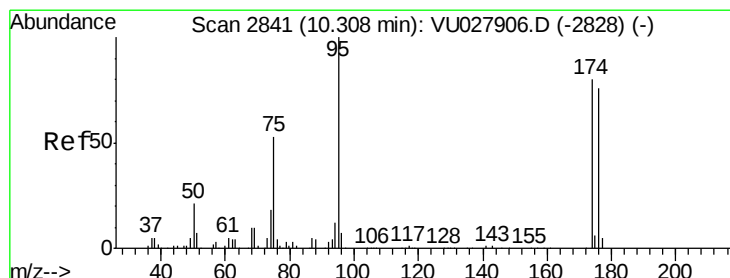
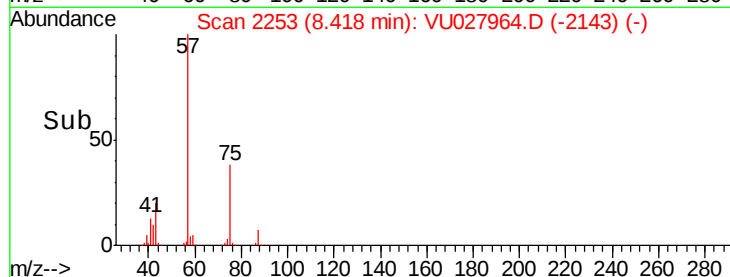
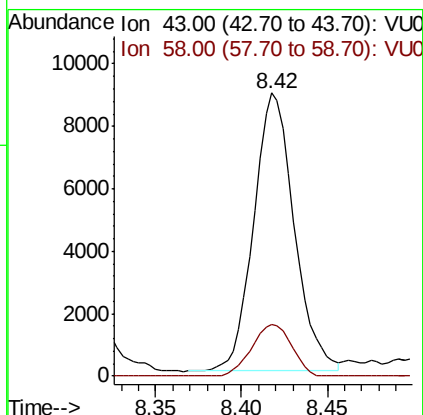
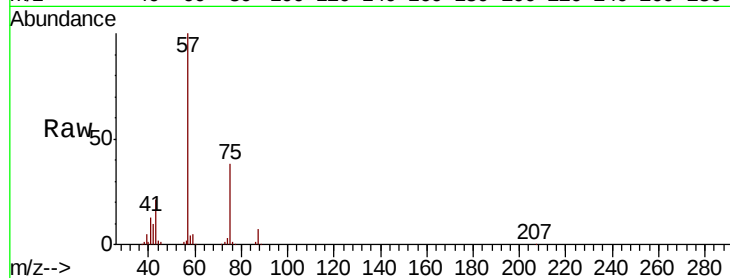




#59
2-Hexanone
Concen: 3.303 ug/l
RT: 8.42 min Scan# 2253
Delta R.T. 0.05 min
Lab File: VU027964.D
Acq: 05 Nov 2018 17:51

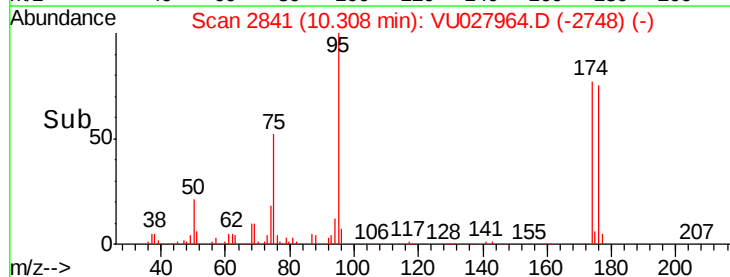
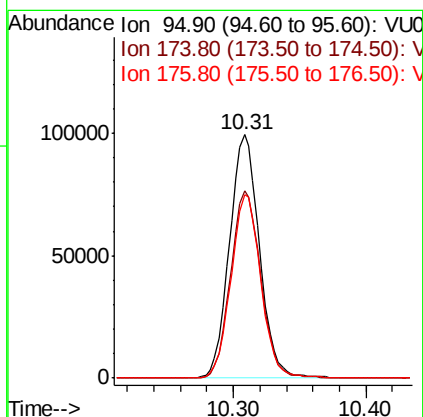
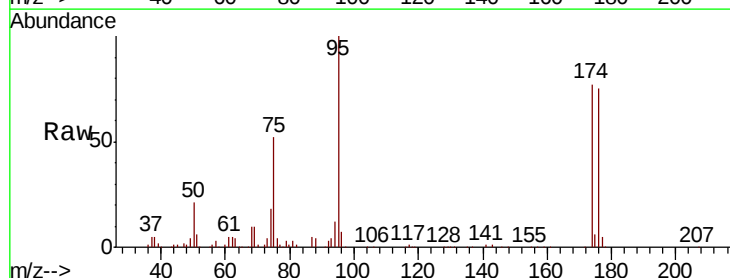
Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#19

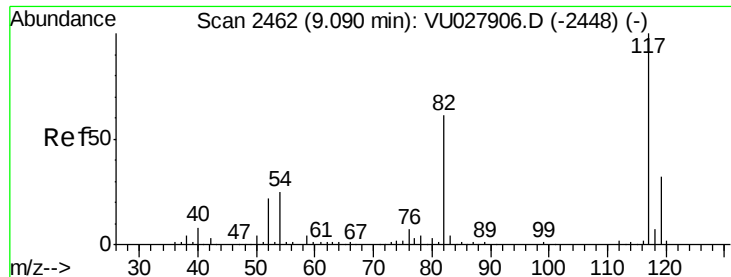
Tot Ion: 43 Resp: 14548
Ion Ratio Lower Upper
43 100
58 18.3 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 48.945 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU027964.D
Acq: 05 Nov 2018 17:51

Tgt Ion: 95 Resp: 155953
Ion Ratio Lower Upper
95 100
174 77.6 0.0 156.4
176 75.0 0.0 150.8

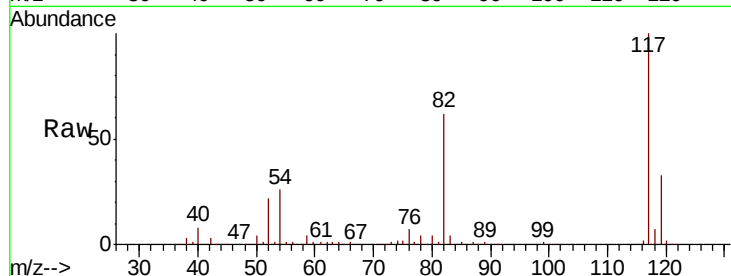




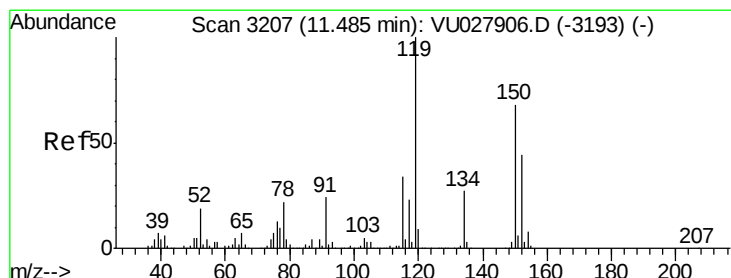
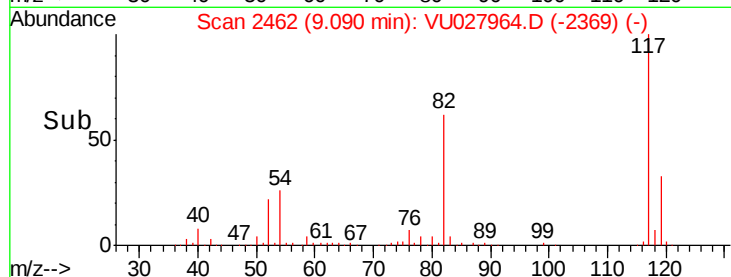
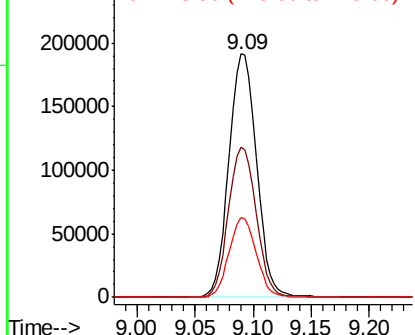
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027964.D
Acq: 05 Nov 2018 17:51

Instrument :
MSVOA_U
ClientSampleId :
PB114473ZHE#19

Tot Ion:117 Resp: 317960
Ion Ratio Lower Upper
117 100
82 61.9 48.6 73.0
119 32.9 25.8 38.8

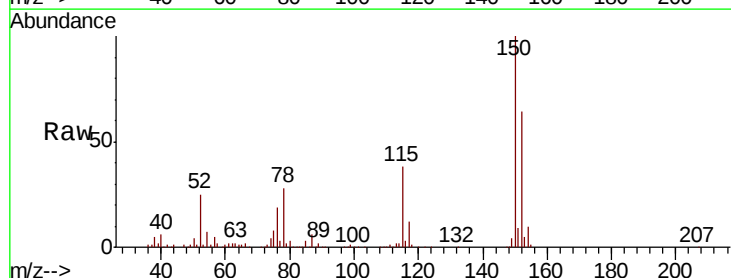


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

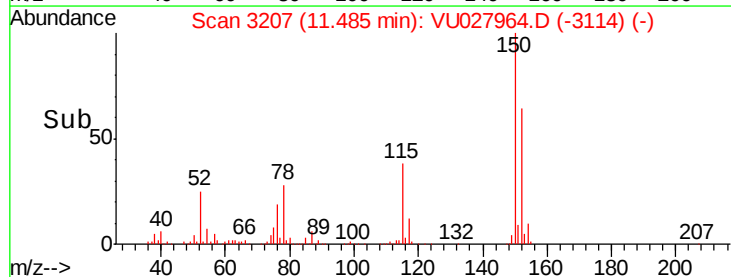
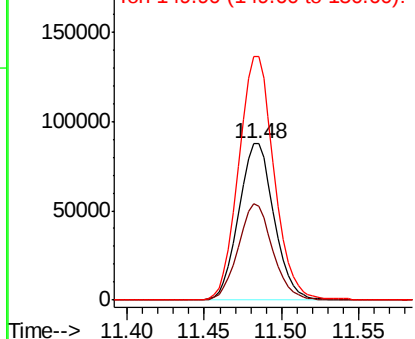


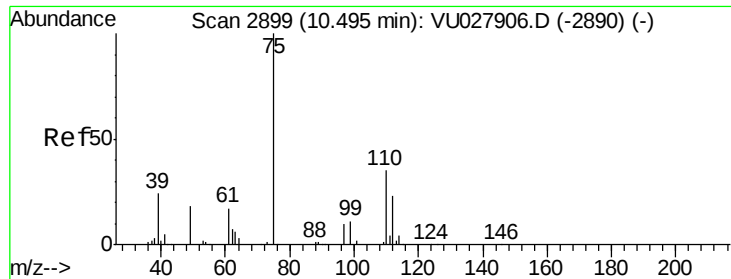
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU027964.D
Acq: 05 Nov 2018 17:51

Tgt Ion:152 Resp: 139214
Ion Ratio Lower Upper
152 100
115 60.3 43.0 129.0
150 156.1 0.0 349.4



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





#76

1,2,3-Trichloropropane

Concen: 21.637 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027964.D

Acq: 05 Nov 2018 17:51

Instrument :

MSVOA_U

ClientSampleId :

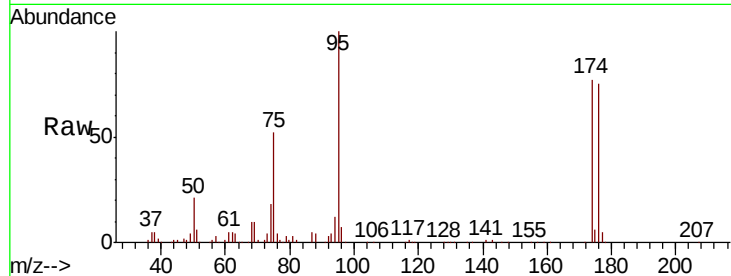
PB114473ZHE#19

Tot Ion: 75 Resp: 82391

Ion Ratio Lower Upper

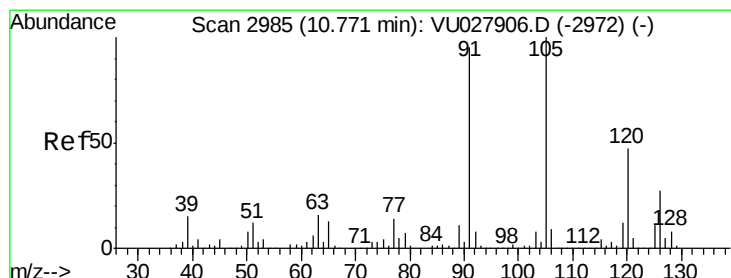
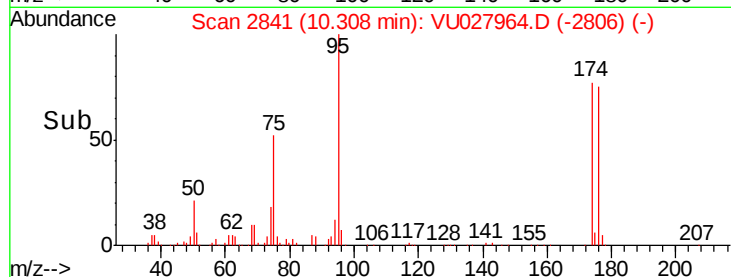
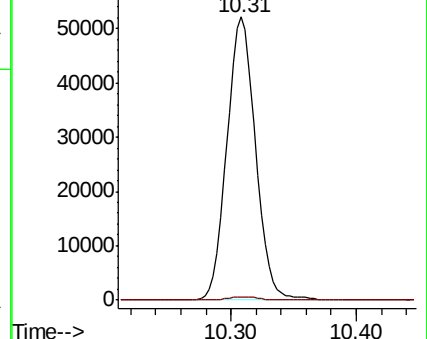
75 100

77 1.4 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU027964.D (-2890) (-)

Ion 77.00 (76.70 to 77.70): VU027964.D (-2890) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.210 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027964.D

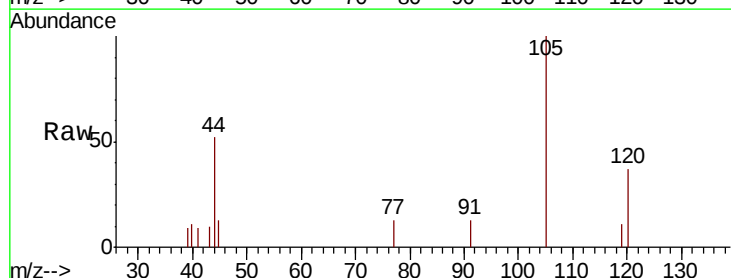
Acq: 05 Nov 2018 17:51

Tgt Ion: 105 Resp: 1873

Ion Ratio Lower Upper

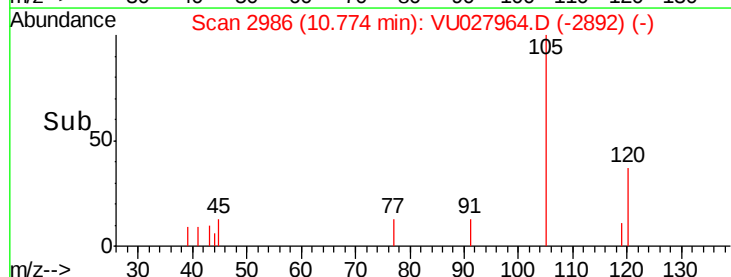
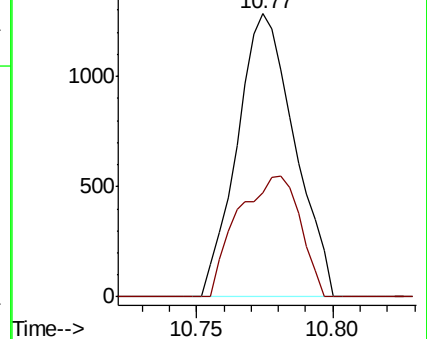
105 100

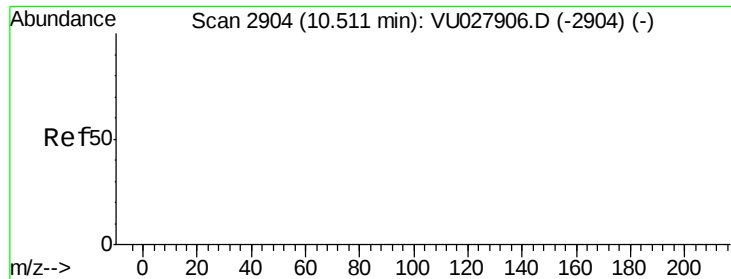
120 46.6 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): VU027964.D (-2892) (-)

Ion 120.00 (119.70 to 120.70): VU027964.D (-2892) (-)

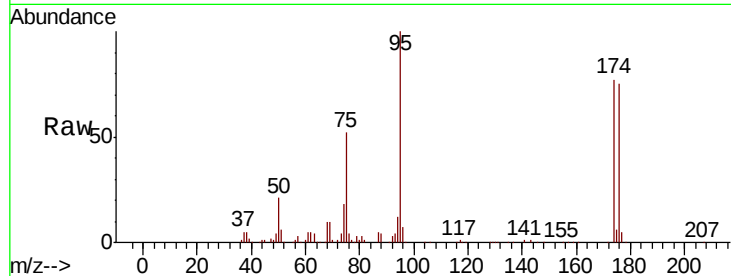




#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.002 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.20 min
 Lab File: VU027964.D
 Acq: 05 Nov 2018 17:51

Instrument :
 MSVOA_U
 ClientSampleId :
 PB114473ZHE#19

Tot Ion: 75 Resp: 82391
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 53.00 (52.70 to 53.70): VU0
 Ion 88.90 (88.60 to 89.60): VU0

