

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
 Data File : VU027192.D
 Acq On : 26 Sep 2018 21:40
 Operator : MD/SY
 Sample : J5048-19
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-2-SEP18

Quant Time: Sep 27 02:46:12 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	92840	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	157296	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	151934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	69430	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	97826	52.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.70%	
35) Dibromofluoromethane	4.88	113	67234	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
50) Toluene-d8	7.57	98	253933	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
62) 4-Bromofluorobenzene	10.31	95	84311	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	

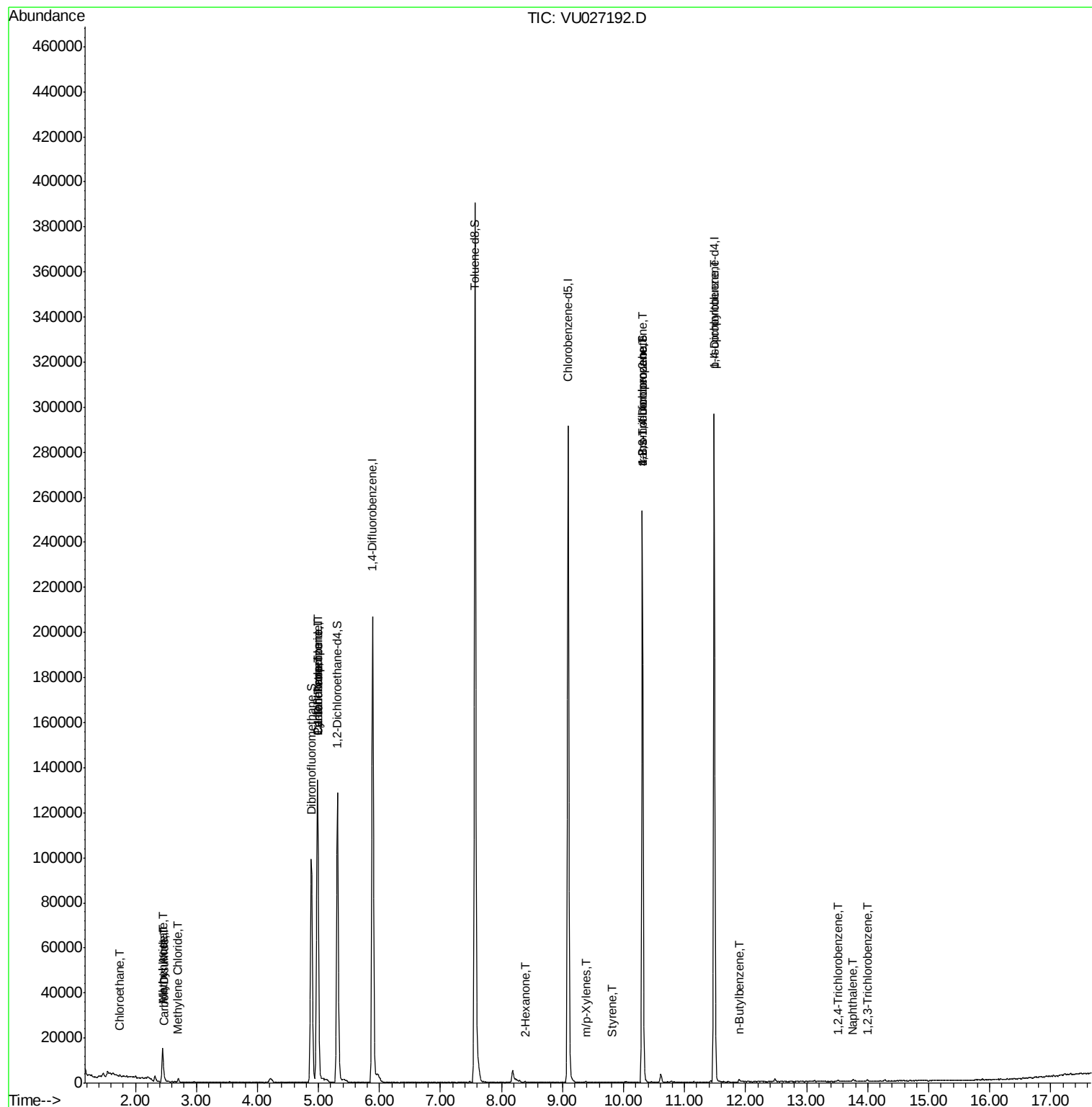
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.74	64	257	0.206	ug/l #	43
14) Allyl chloride	2.44	41	1567	0.603	ug/l #	68
16) Acetone	2.32	43	2703	Below Cal		95
17) Carbon Disulfide	2.48	76	996	0.238	ug/l #	75
18) Methyl Acetate	2.45	43	3908	1.469	ug/l #	55
20) Methylene Chloride	2.70	84	579	0.346	ug/l #	84
31) Cyclohexane	4.98	56	2364	0.277	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	9023	4.298	ug/l #	49
38) Carbon Tetrachloride	4.99	117	9711	4.861	ug/l #	18
59) 2-Hexanone	8.39	43	686	0.314	ug/l #	60
68) m/p-Xylenes	9.38	106	138	1.551	ug/l #	53
70) Styrene	9.80	104	70	1.825	ug/l #	24
76) 1,2,3-Trichloropropane	10.31	75	44776	21.228	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	44776	67.934	ug/l #	100
86) p-Isopropyltoluene	11.48	119	321	0.991	ug/l #	37
89) n-Butylbenzene	11.89	91	423	2.477	ug/l #	81
93) 1,2,4-Trichlorobenzene	13.51	180	333	0.227	ug/l #	86
95) Naphthalene	13.75	128	758	1.816	ug/l #	84
96) 1,2,3-Trichlorobenzene	13.99	180	360	0.228	ug/l #	68

(#) = 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: VU027192.D

Acq: 26 Sep 2018 21:40

Instrument :

MSVOA_U

ClientSampleId :

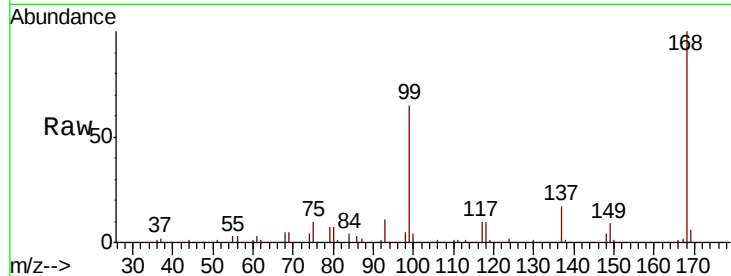
TB-2-SEP18

Tgt Ion:168 Resp: 92840

Ion Ratio Lower Upper

168 100

99 65.1 48.1 72.1



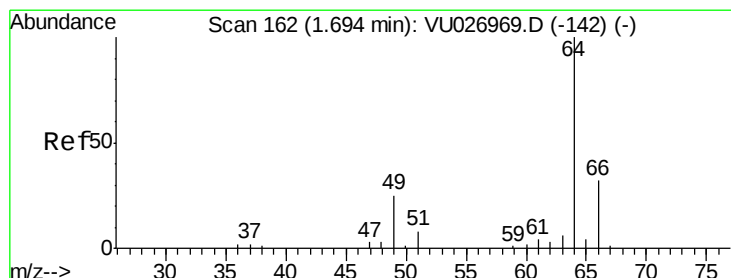
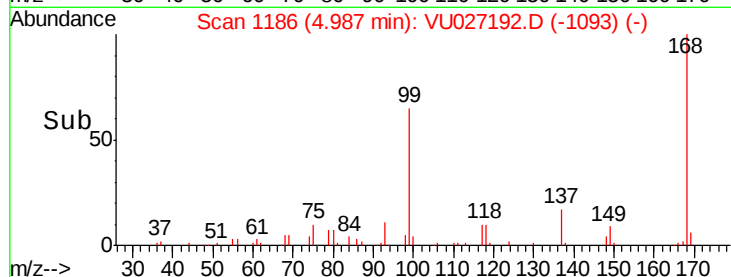
Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.99

4.90 4.95 5.00 5.05 5.10

Time-->



#6

Chloroethane

Concen: 0.206 ug/l

RT: 1.74 min Scan# 176

Delta R.T. 0.05 min

Lab File: VU027192.D

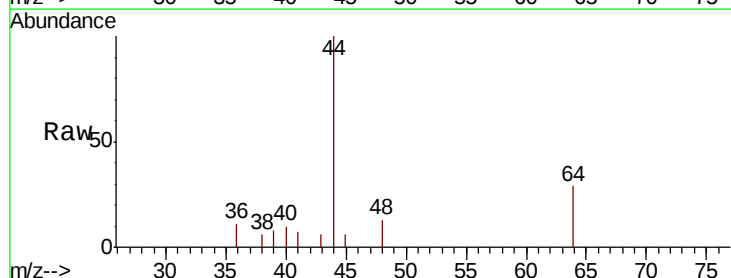
Acq: 26 Sep 2018 21:40

Tgt Ion: 64 Resp: 257

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



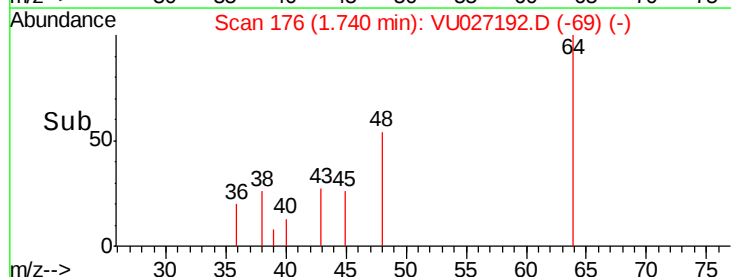
Abundance Ion 63.90 (63.60 to 64.60): VU026969.D (-142) (-)

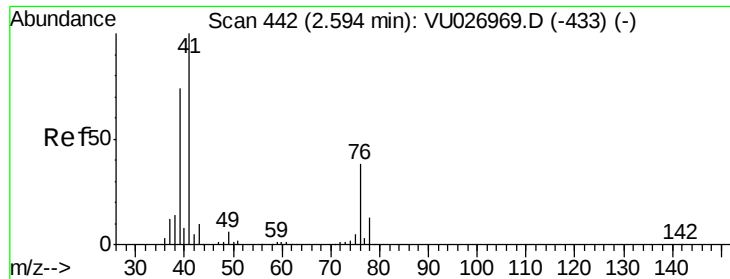
Ion 65.90 (65.60 to 66.60): VU026969.D (-142) (-)

1.74

1.72 1.74 1.76 1.78

Time-->

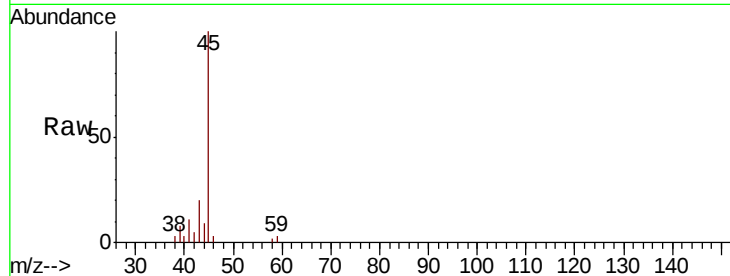




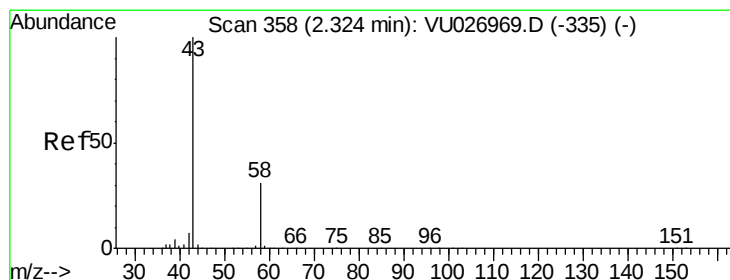
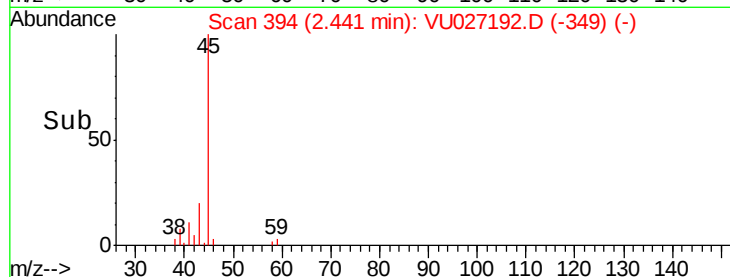
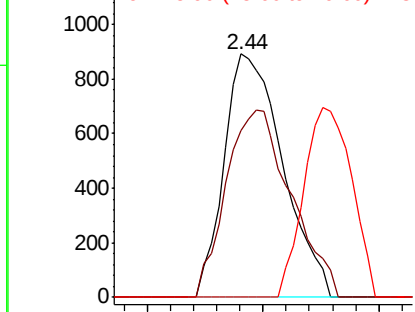
#14
 Allyl chloride
 Concen: 0.603 ug/l
 RT: 2.44 min Scan# 394
 Delta R.T. -0.15 min
 Lab File: VU027192.D
 Acq: 26 Sep 2018 21:40

Instrument :
 MSVOA_U
 ClientSampleId :
 TB-2-SEP18

Tgt Ion: 41 Resp: 1567
 Ion Ratio Lower Upper
 41 100
 39 85.1 55.7 83.5#
 76 0.0 26.5 39.7#

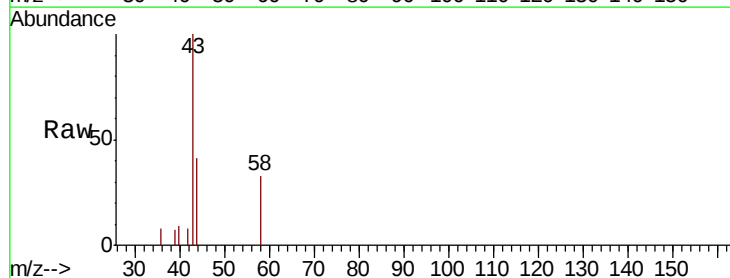


Abundance Ion 41.00 (40.70 to 41.70): VU0
 Ion 39.00 (38.70 to 39.70): VU0
 Ion 75.90 (75.60 to 76.60): VU0

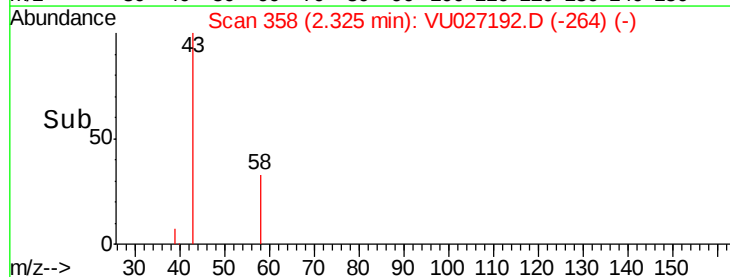
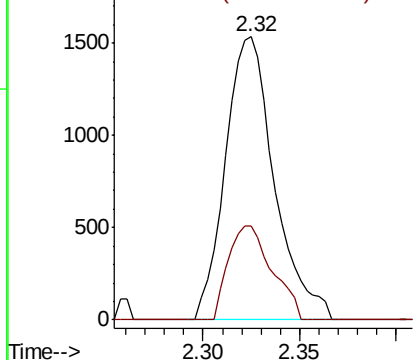


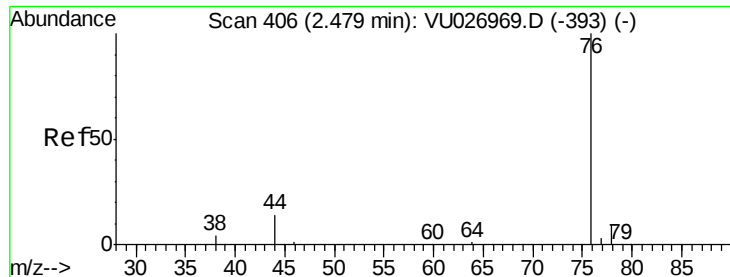
#16
 Acetone
 Concen: Below Cal
 RT: 2.32 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VU027192.D
 Acq: 26 Sep 2018 21:40

Tgt Ion: 43 Resp: 2703
 Ion Ratio Lower Upper
 43 100
 58 33.2 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: 0.238 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

Instrument :

MSVOA_U

ClientSampleId :

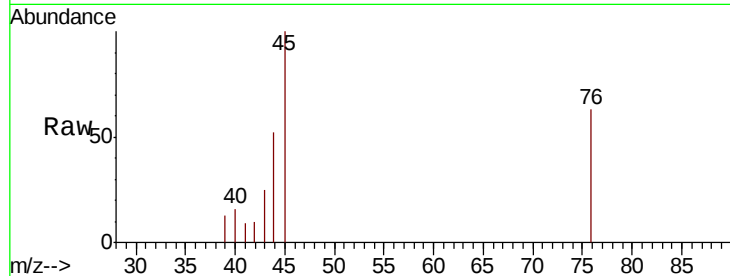
TB-2-SEP18

Tgt Ion: 76 Resp: 996

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

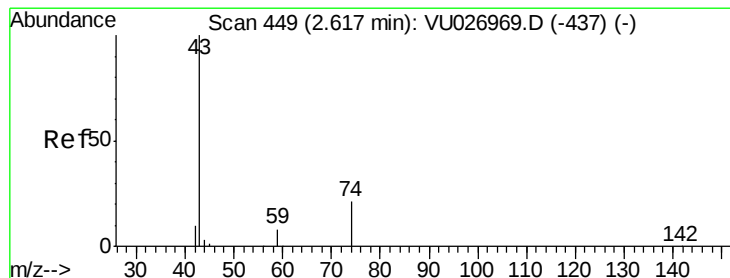
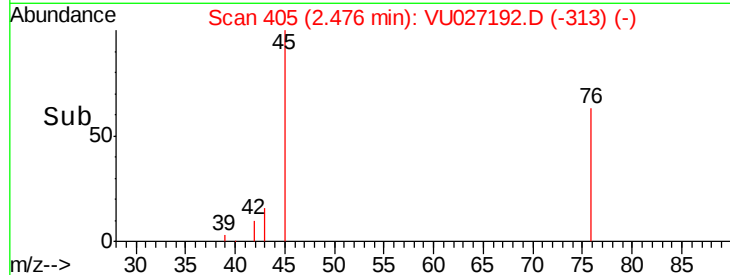
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 1.469 ug/l

RT: 2.45 min Scan# 397

Delta R.T. -0.17 min

Lab File: VU027192.D

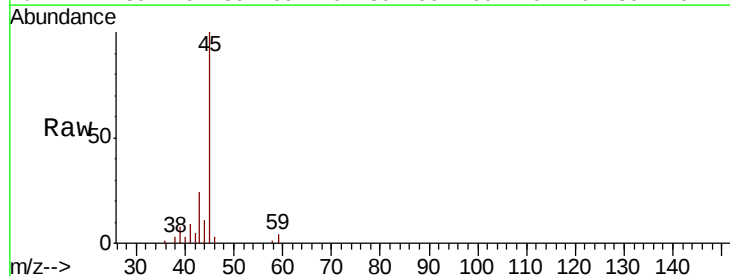
Acq: 26 Sep 2018 21:40

Tgt Ion: 43 Resp: 3908

Ion Ratio Lower Upper

43 100

74 0.0 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.45

2500

2000

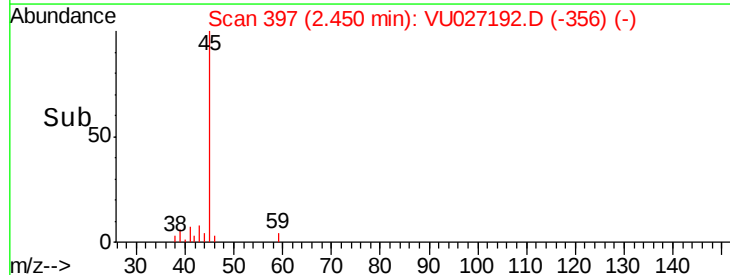
1500

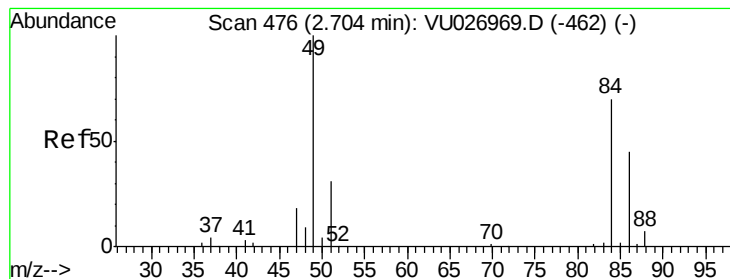
1000

500

0

Time-->





#20

Methylene Chloride

Concen: 0.346 ug/l

RT: 2.70 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

Instrument :

MSVOA_U

ClientSampleId :

TB-2-SEP18

Tgt Ion: 84 Resp: 579

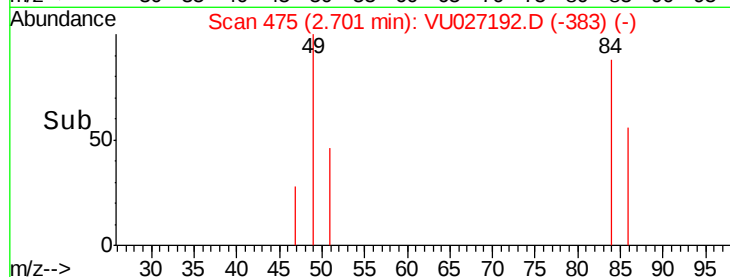
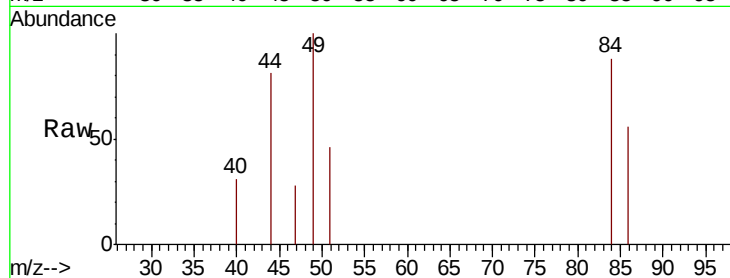
Ion Ratio Lower Upper

84 100

49 114.2 114.9 172.3#

51 52.8 35.8 53.8

86 63.9 51.3 76.9

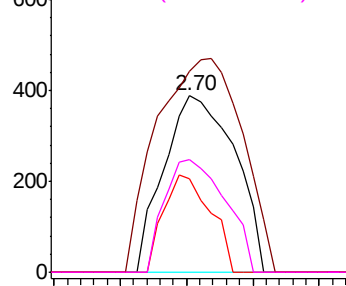


Abundance Ion 83.90 (83.60 to 84.60): VU0

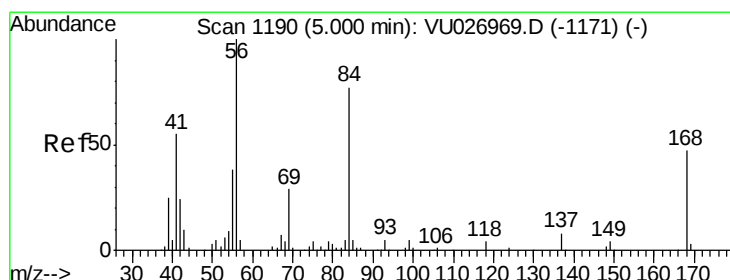
Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



Time-->



#31

Cyclohexane

Concen: 0.277 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.02 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

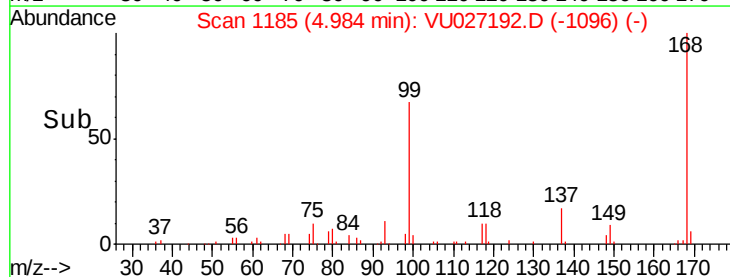
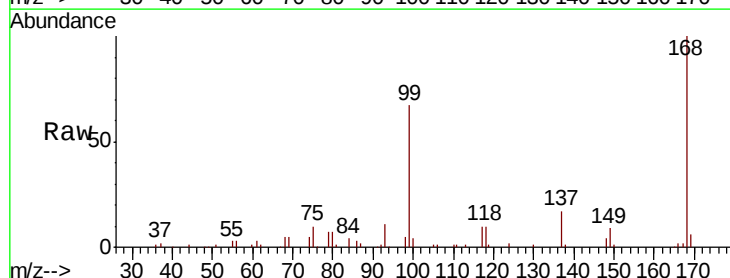
Tgt Ion: 56 Resp: 2364

Ion Ratio Lower Upper

56 100

69 189.6 23.0 34.4#

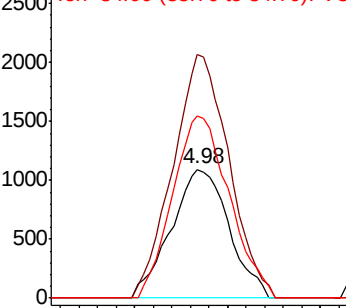
84 142.4 61.4 92.2#



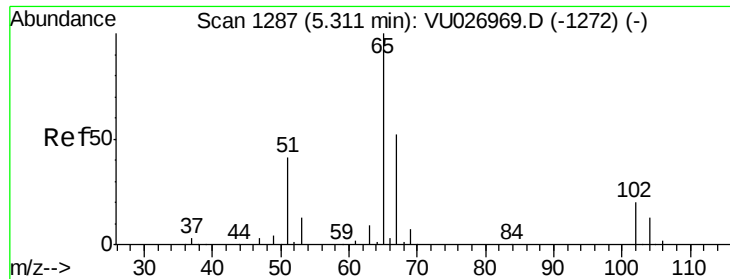
Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



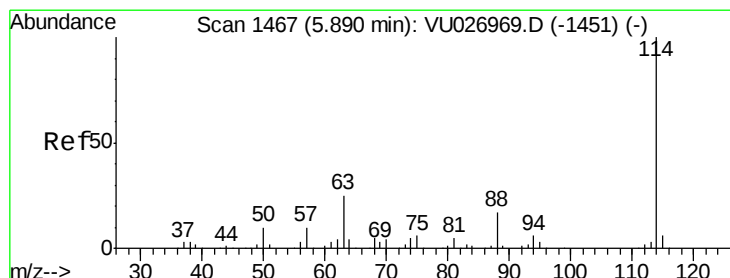
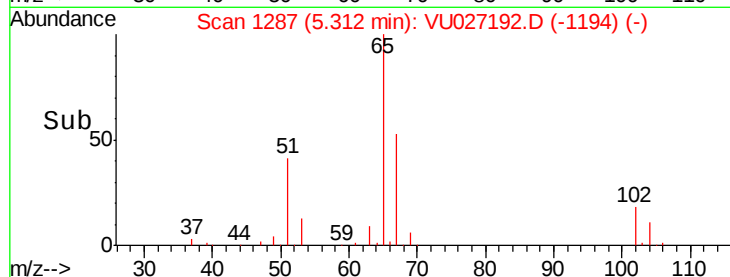
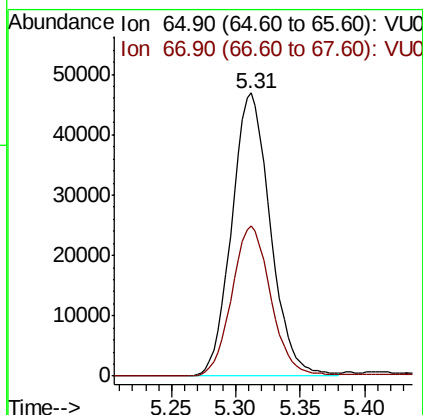
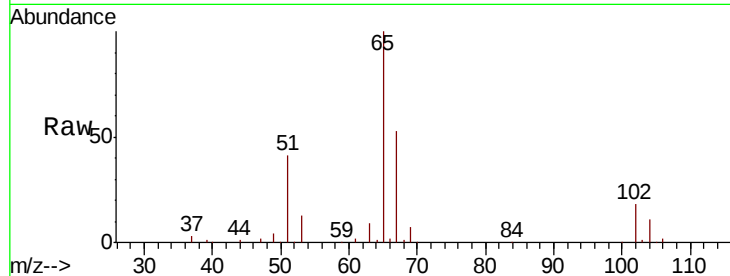
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 52.354 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027192.D
 Acq: 26 Sep 2018 21:40

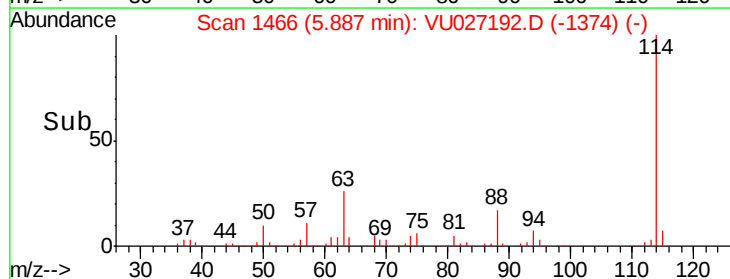
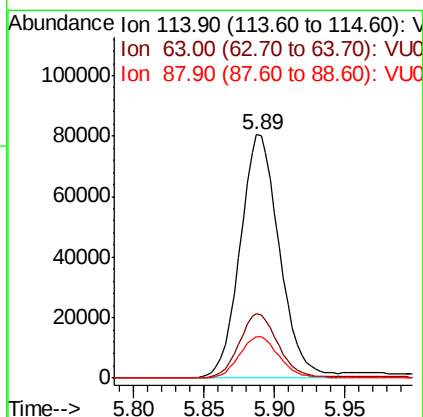
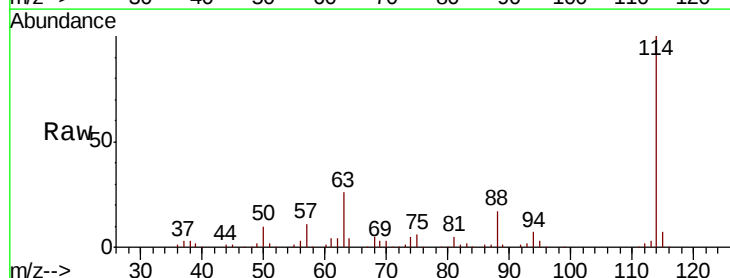
Instrument :
 MSVOA_U
 ClientSampleId :
 TB-2-SEP18

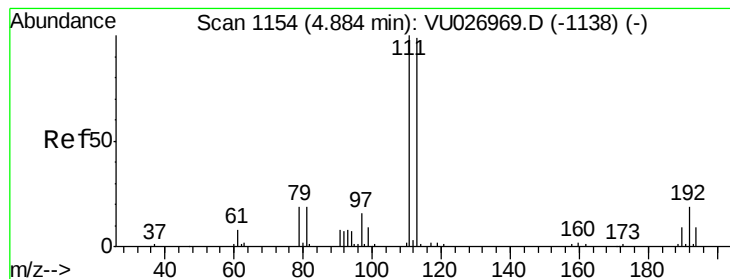
Tgt Ion: 65 Resp: 97826
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU027192.D
 Acq: 26 Sep 2018 21:40

Tgt Ion: 114 Resp: 157296
 Ion Ratio Lower Upper
 114 100
 63 26.5 0.0 49.2
 88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 49.312 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

Instrument :

MSVOA_U

ClientSampleId :

TB-2-SEP18

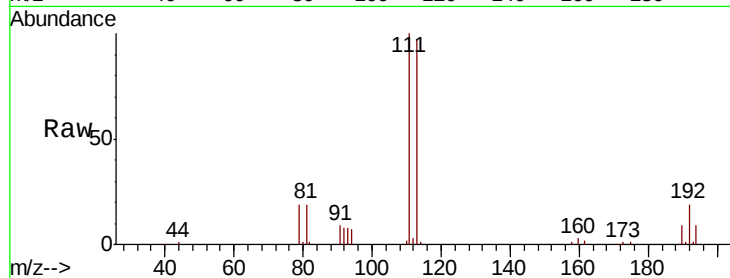
Tgt Ion:113 Resp: 67234

Ion Ratio Lower Upper

113 100

111 104.8 82.2 123.4

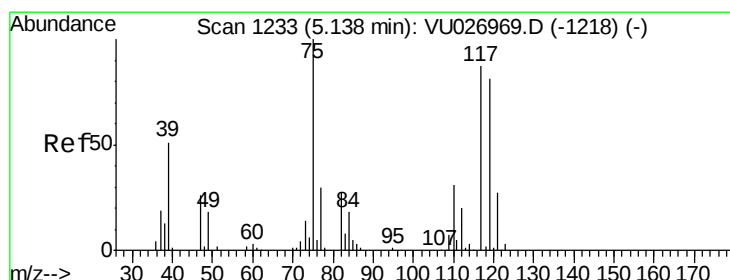
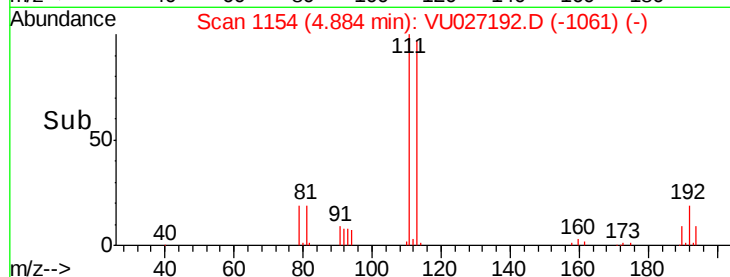
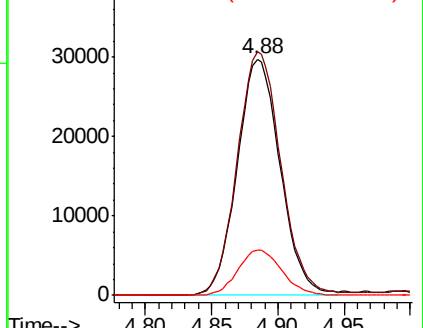
192 19.6 15.2 22.8



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: 4.298 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

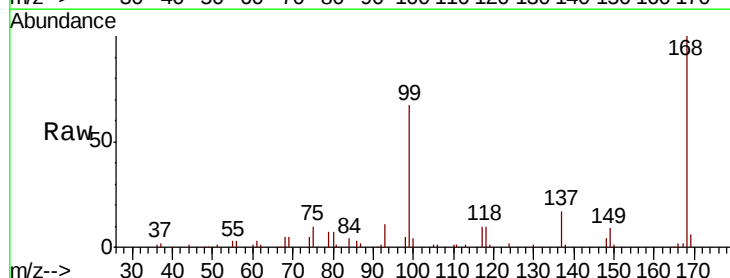
Tgt Ion: 75 Resp: 9023

Ion Ratio Lower Upper

75 100

110 6.6 16.1 48.2#

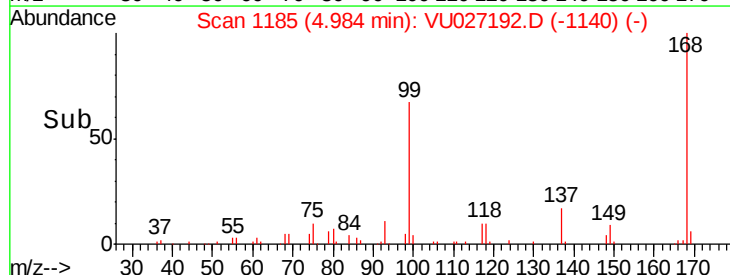
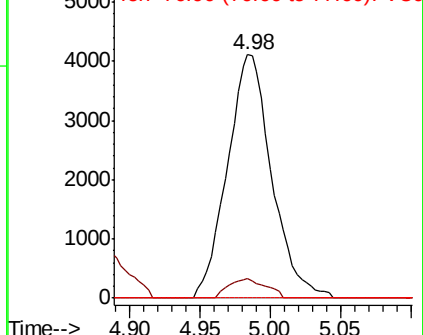
77 0.0 24.6 36.8#

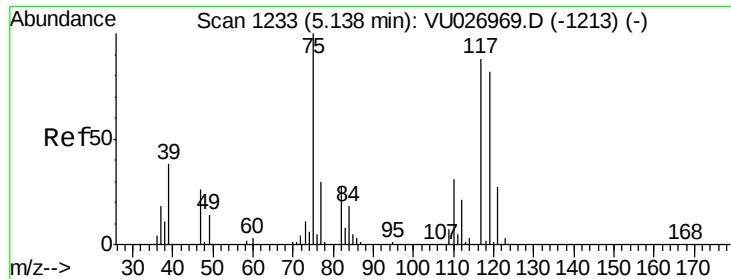


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

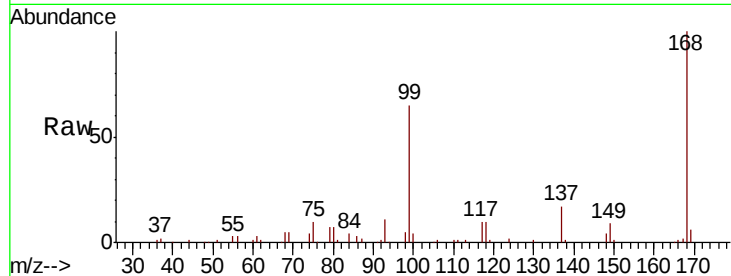




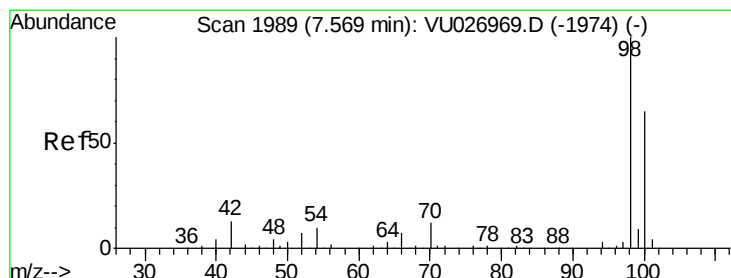
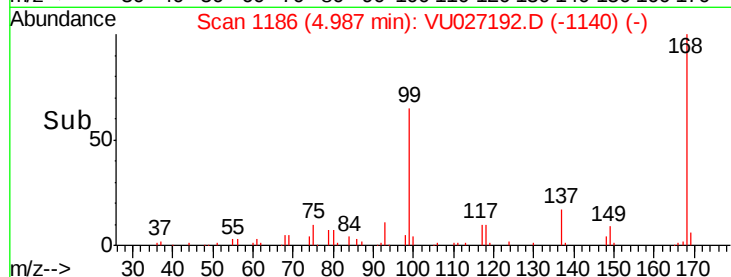
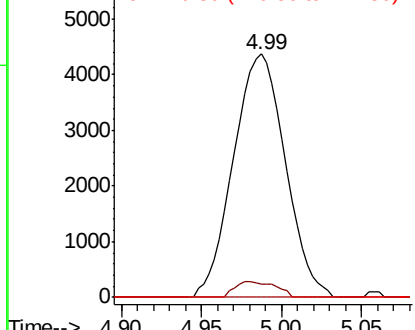
#38
Carbon Tetrachloride
Concen: 4.861 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU027192.D
Acq: 26 Sep 2018 21:40

Instrument :
MSVOA_U
ClientSampleId :
TB-2-SEP18

Tgt Ion:117 Resp: 9711
Ion Ratio Lower Upper
117 100
119 5.5 74.4 111.6#
121 0.0 24.2 36.4#

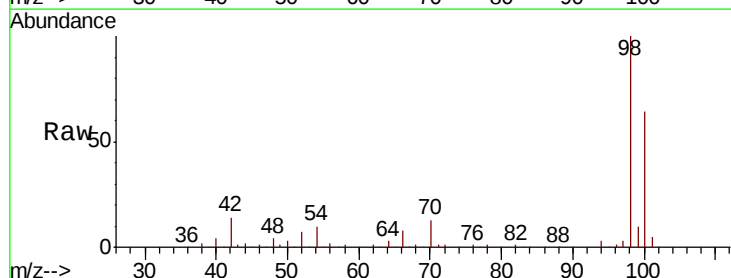


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

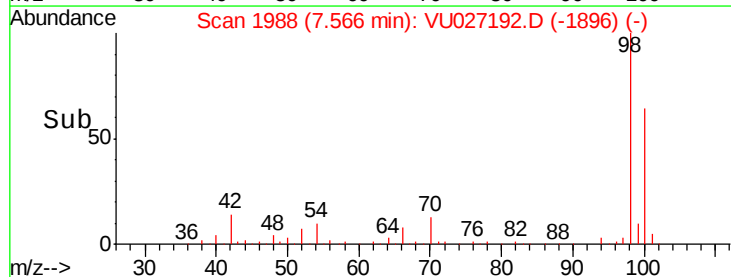
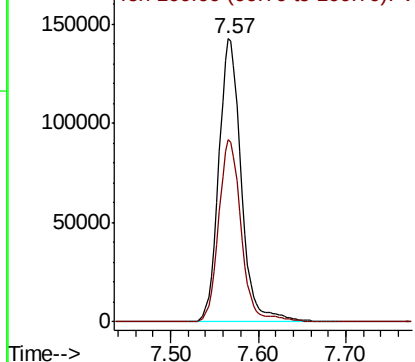


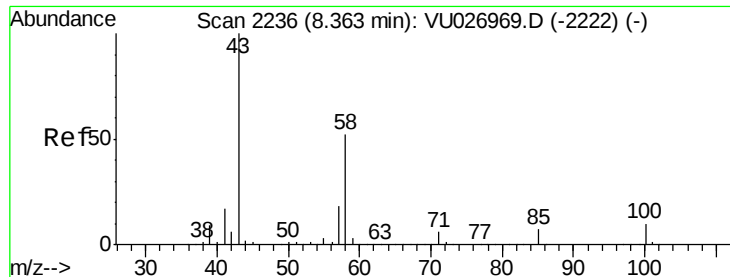
#50
Toluene-d8
Concen: 48.870 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU027192.D
Acq: 26 Sep 2018 21:40

Tgt Ion: 98 Resp: 253933
Ion Ratio Lower Upper
98 100
100 64.7 52.1 78.1



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

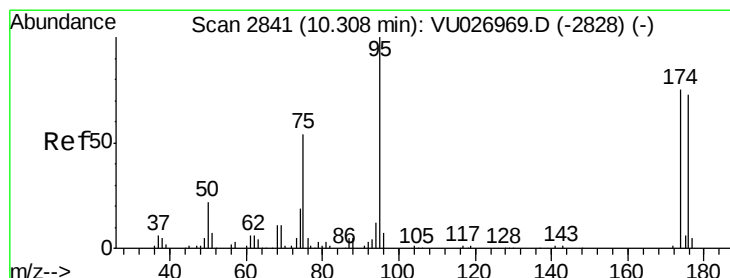
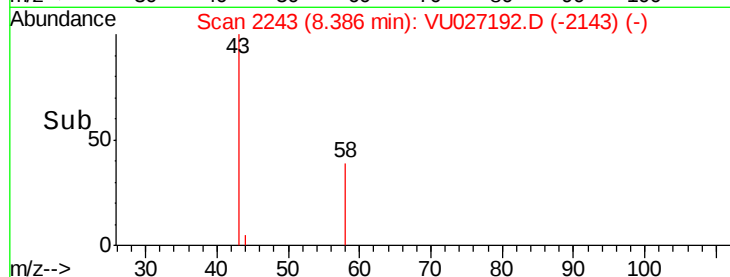
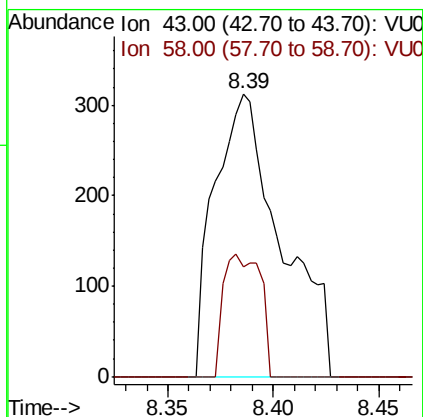
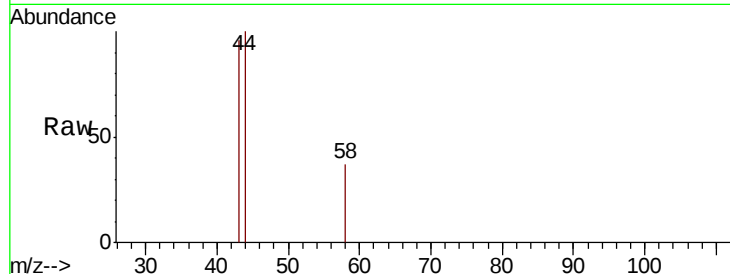




#59
2-Hexanone
Concen: 0.314 ug/l
RT: 8.39 min Scan# 2243
Delta R.T. 0.02 min
Lab File: VU027192.D
Acq: 26 Sep 2018 21:40

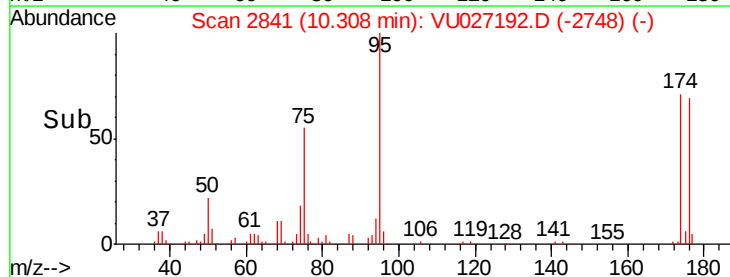
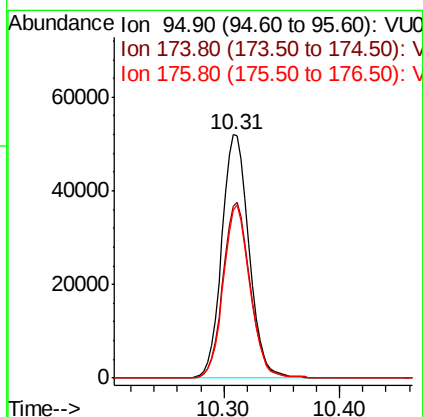
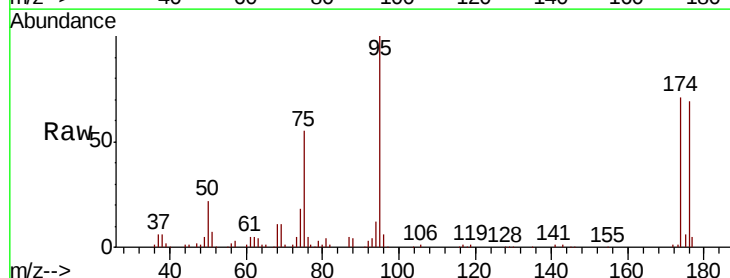
Instrument :
MSVOA_U
ClientSampleId :
TB-2-SEP18

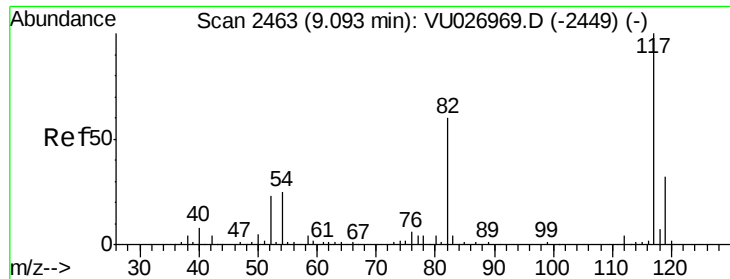
Tgt Ion: 43 Resp: 686
Ion Ratio Lower Upper
43 100
58 23.6 26.1 78.2#



#62
4-Bromofluorobenzene
Concen: 47.287 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VU027192.D
Acq: 26 Sep 2018 21:40

Tgt Ion: 95 Resp: 84311
Ion Ratio Lower Upper
95 100
174 72.2 0.0 150.2
176 69.0 0.0 145.2

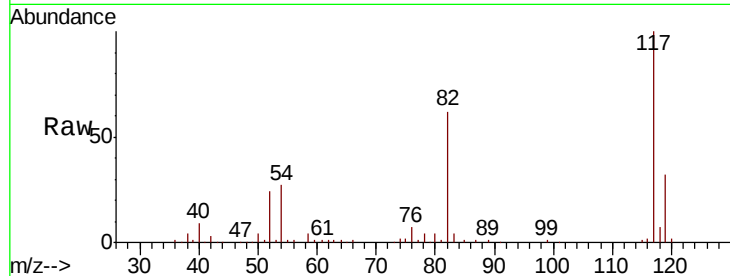




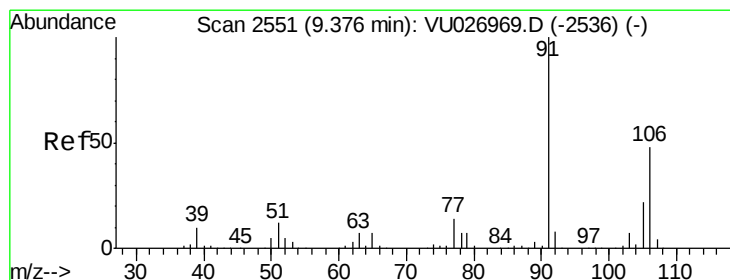
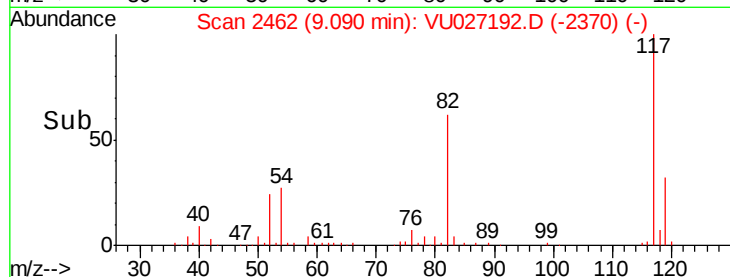
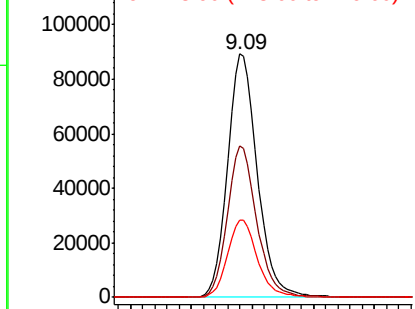
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU027192.D
Acq: 26 Sep 2018 21:40

Instrument :
MSVOA_U
ClientSampleId :
TB-2-SEP18

Tgt Ion:117 Resp: 151934
Ion Ratio Lower Upper
117 100
82 62.4 48.0 72.0
119 31.8 25.8 38.8

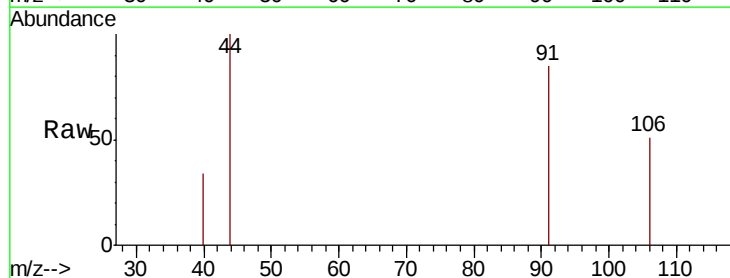


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

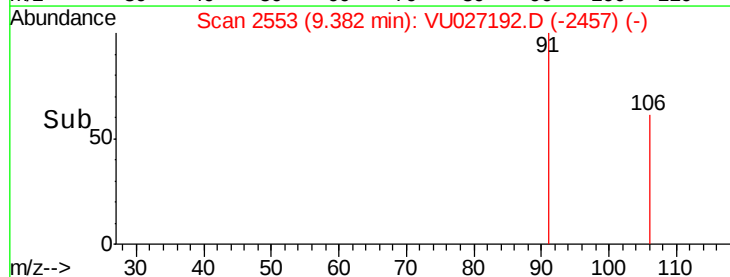
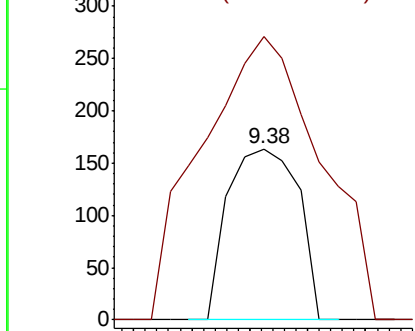


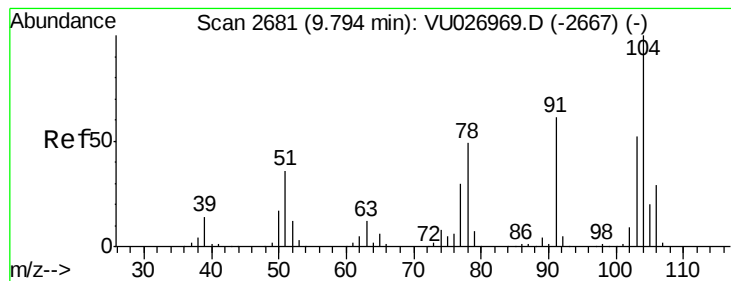
#68
m/p-Xylenes
Concen: 1.551 ug/l
RT: 9.38 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VU027192.D
Acq: 26 Sep 2018 21:40

Tgt Ion:106 Resp: 138
Ion Ratio Lower Upper
106 100
91 280.4 166.5 249.7#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0





#70

Styrene

Concen: 1.825 ug/l

RT: 9.80 min Scan# 2684

Delta R.T. 0.01 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

Instrument :

MSVOA_U

ClientSampleId :

TB-2-SEP18

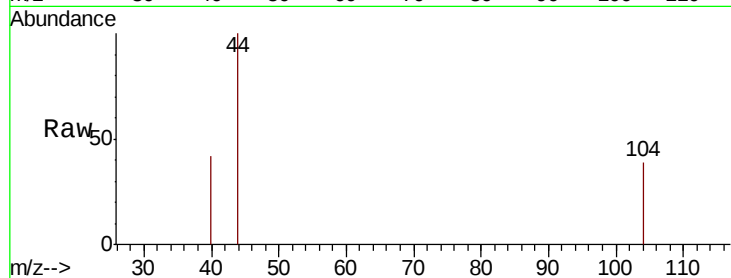
Tgt Ion:104 Resp: 70

Ion Ratio Lower Upper

104 100

78 0.0 43.0 64.4#

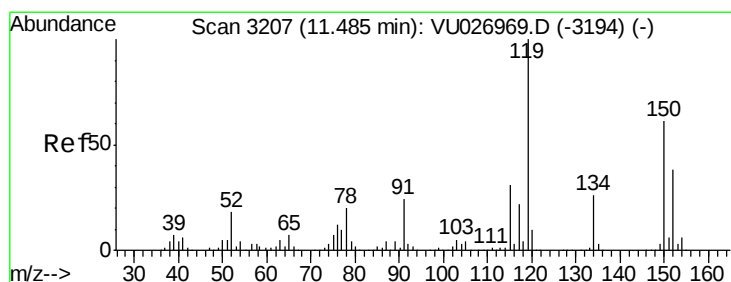
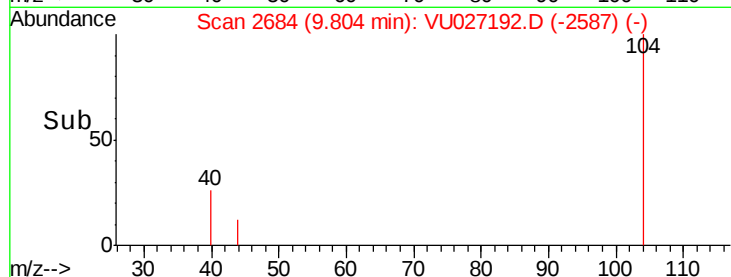
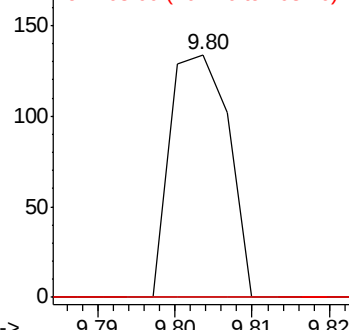
103 0.0 44.1 66.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

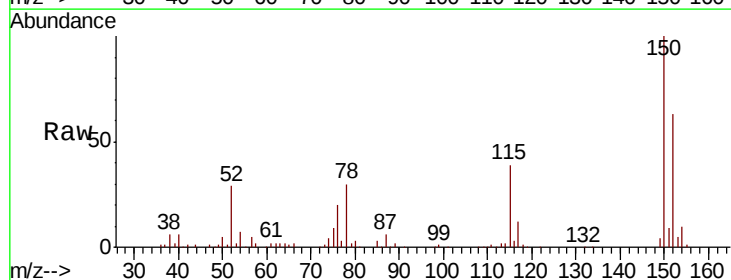
Tgt Ion:152 Resp: 69430

Ion Ratio Lower Upper

152 100

115 61.6 44.9 134.5

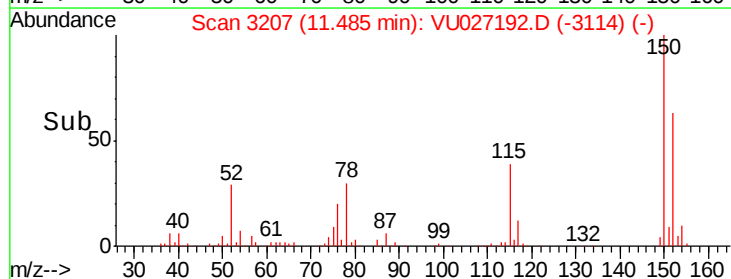
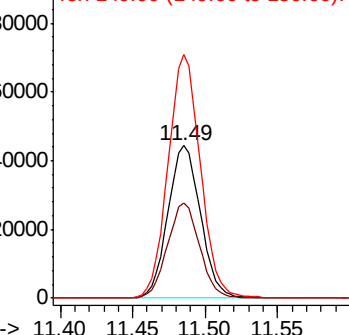
150 158.7 0.0 355.8

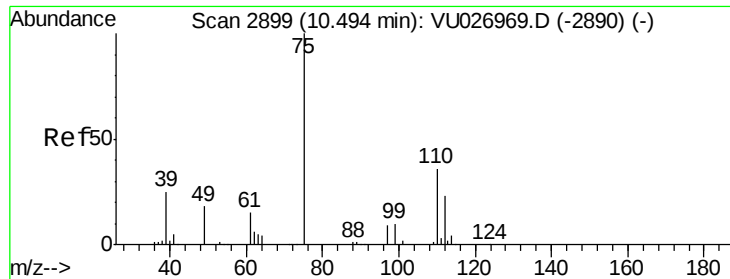


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.228 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

Instrument :

MSVOA_U

ClientSampleId :

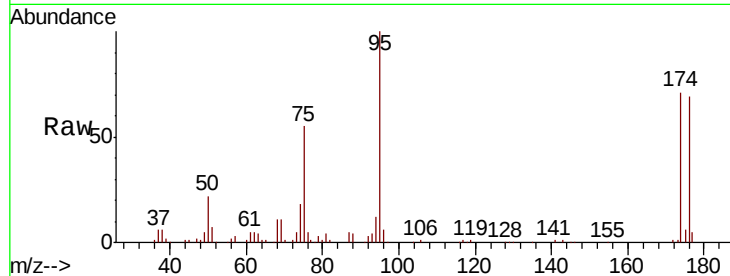
TB-2-SEP18

Tgt Ion: 75 Resp: 44776

Ion Ratio Lower Upper

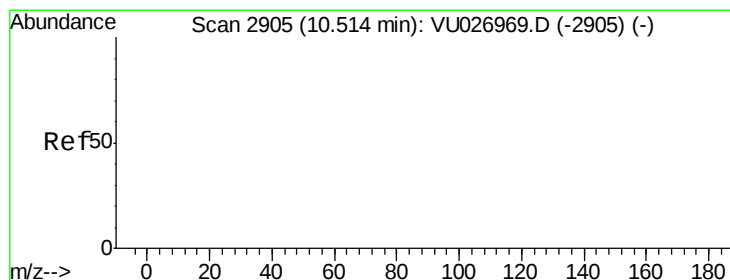
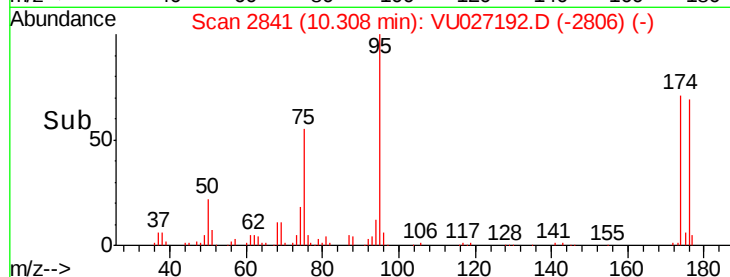
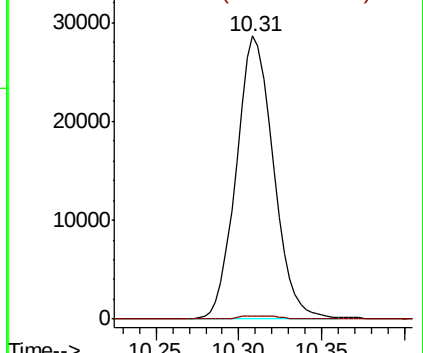
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 67.934 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.21 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

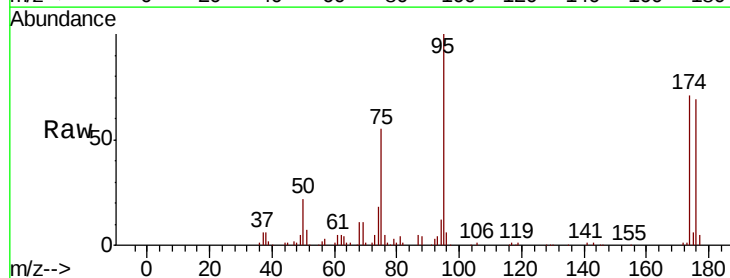
Tgt Ion: 75 Resp: 44776

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

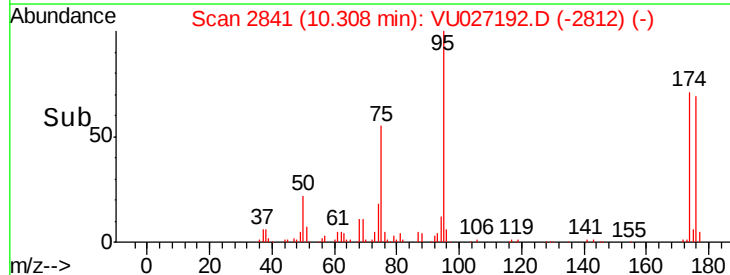
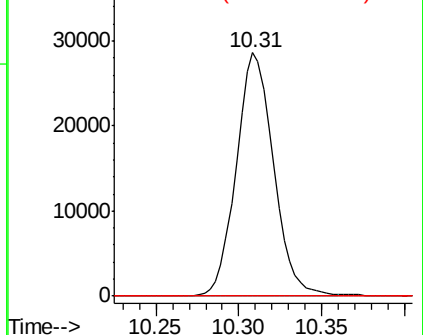
89 0.0 0.0 0.0

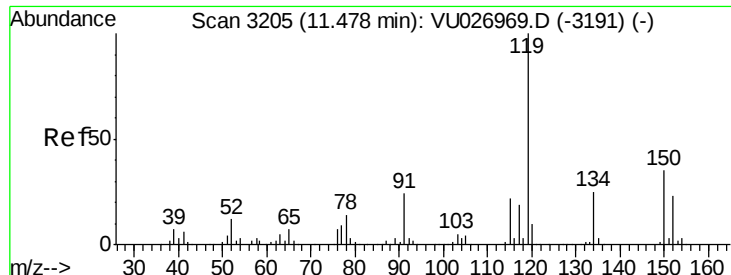


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

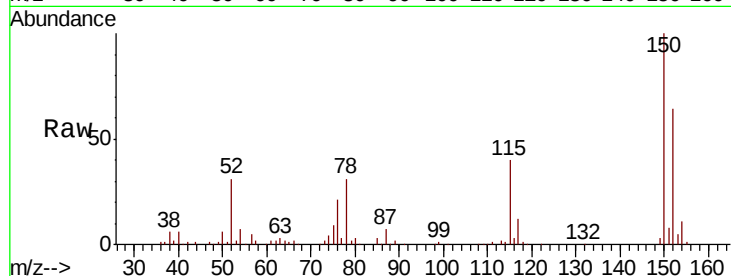




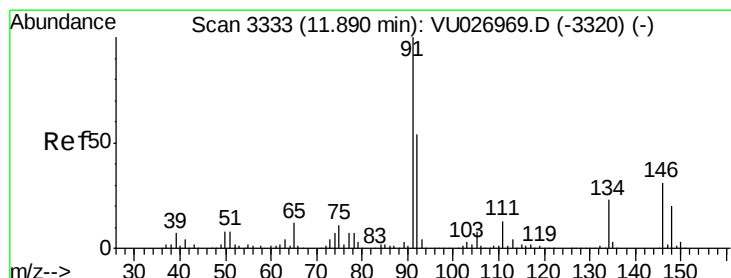
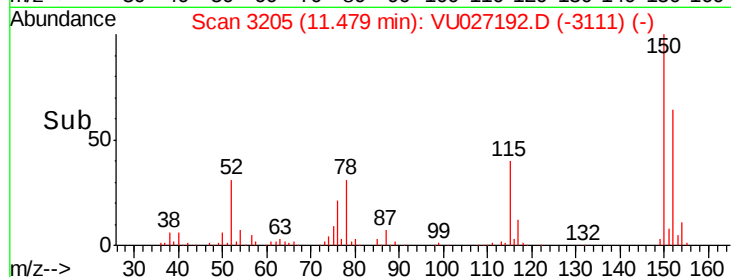
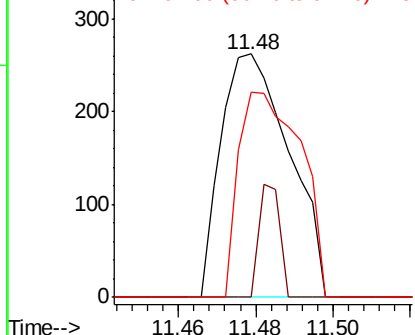
#86
p-Isopropyltoluene
Concen: 0.991 ug/l
RT: 11.48 min Scan# 3205
Delta R.T. 0.00 min
Lab File: VU027192.D
Acq: 26 Sep 2018 21:40

Instrument :
MSVOA_U
ClientSampled :
TB-2-SEP18

Tgt Ion: 119 Resp: 321
Ion Ratio Lower Upper
119 100
134 14.3 12.8 38.3
91 76.6 12.3 36.8#

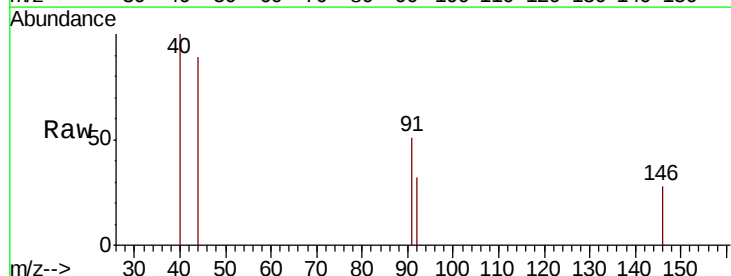


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

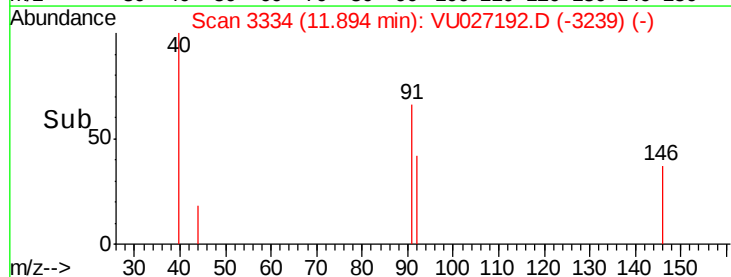
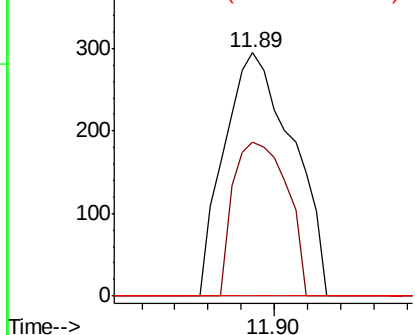


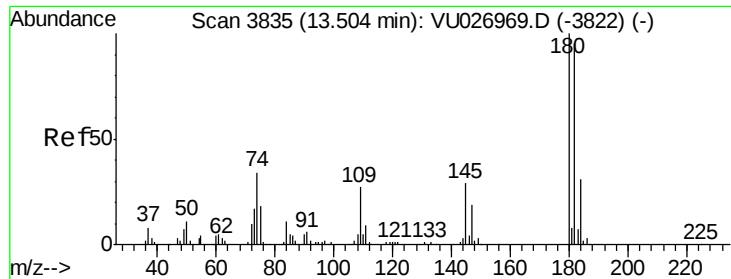
#89
n-Butylbenzene
Concen: 2.477 ug/l
RT: 11.89 min Scan# 3334
Delta R.T. 0.00 min
Lab File: VU027192.D
Acq: 26 Sep 2018 21:40

Tgt Ion: 91 Resp: 423
Ion Ratio Lower Upper
91 100
92 49.6 27.1 81.2
134 0.0 11.7 35.0#



Abundance Ion 91.00 (90.70 to 91.70): VU
Ion 92.00 (91.70 to 92.70): VU
Ion 134.00 (133.70 to 134.70): V

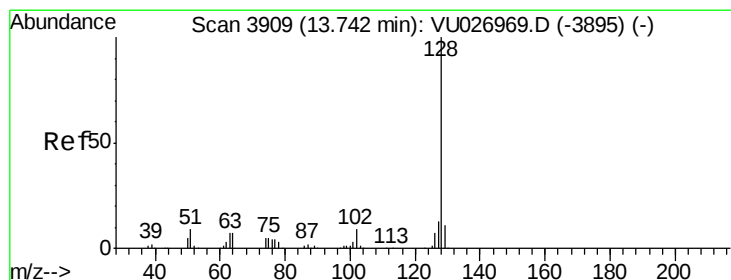
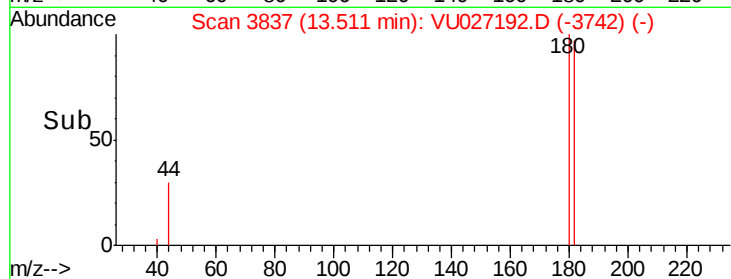
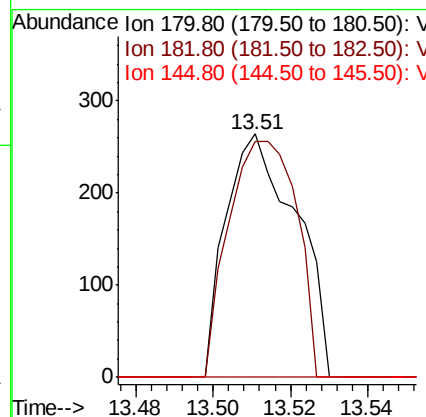
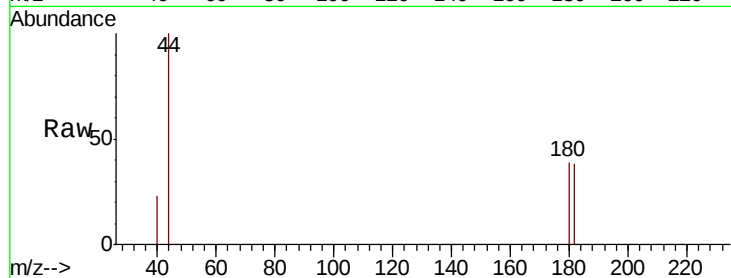




#93
 1,2,4-Trichlorobenzene
 Concen: 0.227 ug/l
 RT: 13.51 min Scan# 3837
 Delta R.T. 0.01 min
 Lab File: VU027192.D
 Acq: 26 Sep 2018 21:40

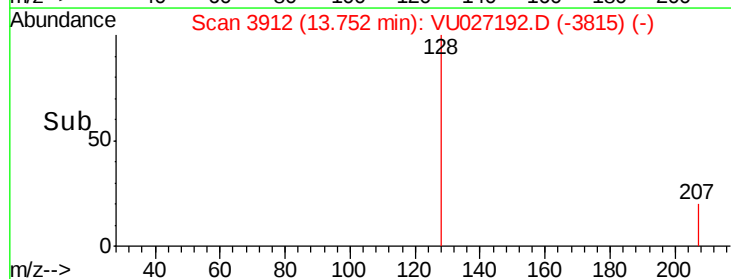
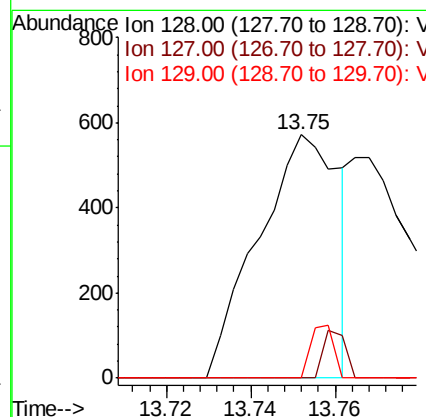
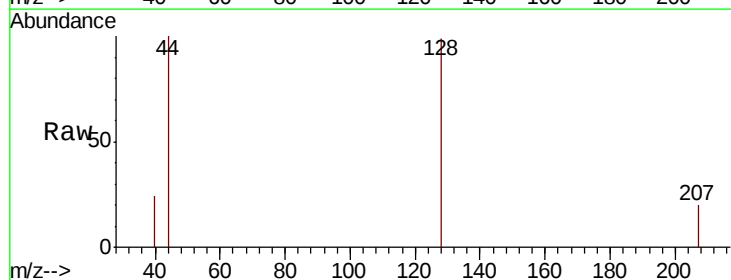
Instrument :
 MSVOA_U
 ClientSampleId :
 TB-2-SEP18

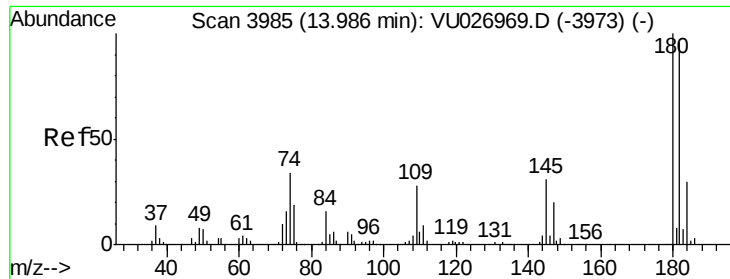
Tgt Ion:180 Resp: 333
 Ion Ratio Lower Upper
 180 100
 182 94.0 47.4 142.2
 145 0.0 14.9 44.5#



#95
 Naphthalene
 Concen: 1.816 ug/l
 RT: 13.75 min Scan# 3912
 Delta R.T. 0.01 min
 Lab File: VU027192.D
 Acq: 26 Sep 2018 21:40

Tgt Ion:128 Resp: 758
 Ion Ratio Lower Upper
 128 100
 127 5.4 10.6 15.8#
 129 6.1 8.6 12.8#





#96

1,2,3-Trichlorobenzene

Concen: 0.228 ug/l

RT: 13.99 min Scan# 3986

Delta R.T. 0.00 min

Lab File: VU027192.D

Acq: 26 Sep 2018 21:40

Instrument :

MSVOA_U

ClientSampleId :

TB-2-SEP18

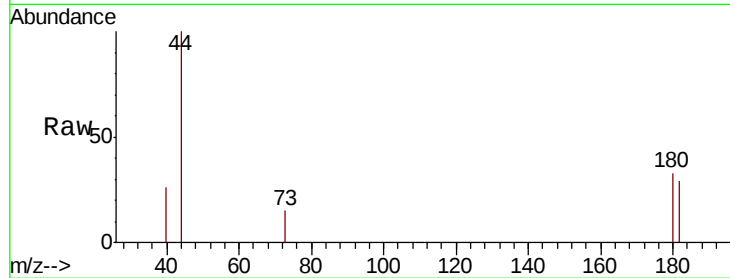
Tgt Ion:180 Resp: 360

Ion Ratio Lower Upper

180 100

182 117.8 47.5 142.5

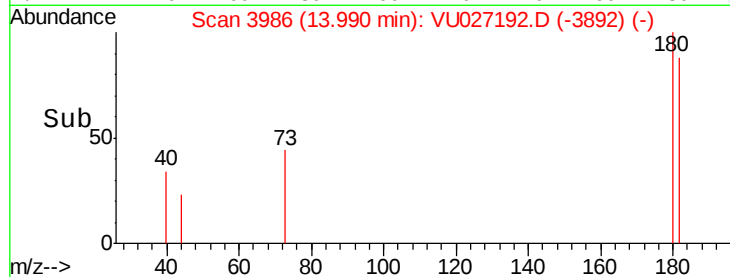
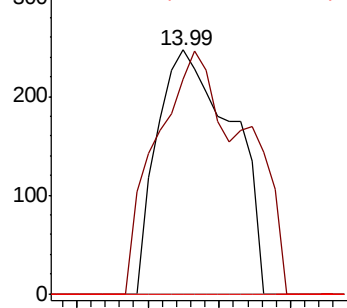
145 0.0 15.4 46.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time-->