

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\U100618\
 Data File : VU027464.D
 Acq On : 05 Oct 2018 19:33
 Operator : MD/SY
 Sample : J5165-09DL 20X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EP-MW-H-092718DL

Quant Time: Oct 06 00:30:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 02:04:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	112477	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	188320	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	183574	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	105946	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	105213	56.02	ug/l	0.00
Spiked Amount			Recovery	=	112.04%	
35) Dibromofluoromethane	4.89	113	74820	57.97	ug/l	0.00
Spiked Amount			Recovery	=	115.94%	
50) Toluene-d8	7.57	98	291571	60.36	ug/l	0.00
Spiked Amount			Recovery	=	120.72%	
62) 4-Bromofluorobenzene	10.31	95	109207	60.83	ug/l	0.00
Spiked Amount			Recovery	=	121.66%	

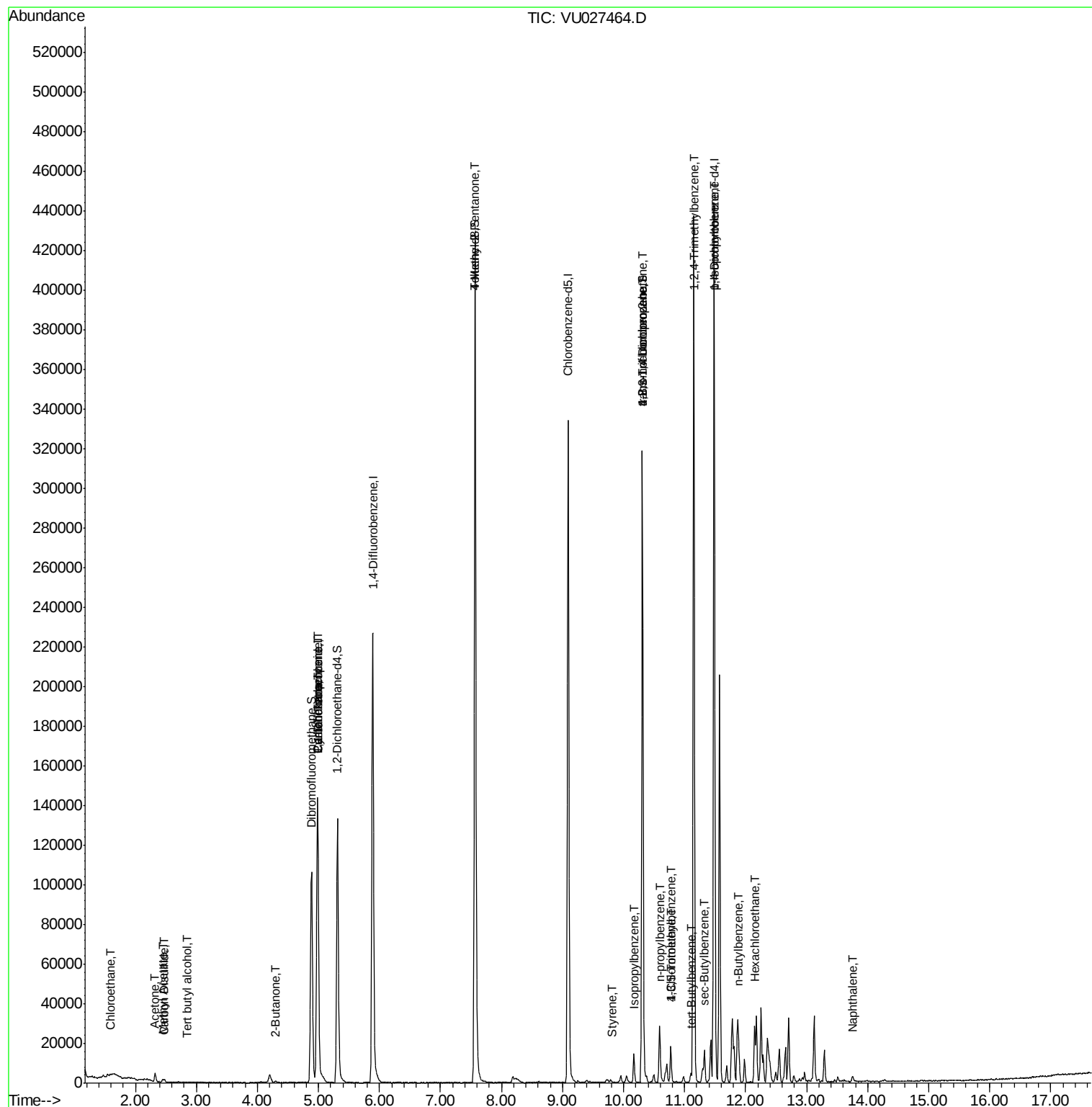
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.59	64	2594	2.092	ug/l #	44
11) Tert butyl alcohol	2.84	59	225	0.569	ug/l #	72
16) Acetone	2.32	43	4653	4.194	ug/l	97
17) Carbon Disulfide	2.48	76	1541	0.360	ug/l	96
18) Methyl Acetate	2.44	43	569	0.225	ug/l #	56
25) 2-Butanone	4.30	43	900	0.595	ug/l #	54
31) Cyclohexane	4.99	56	2544	0.610	ug/l #	1
36) 1,1-Dichloropropene	4.99	75	9262	4.530	ug/l #	50
38) Carbon Tetrachloride	4.99	117	10526	5.699	ug/l #	17
51) 4-Methyl-2-Pentanone	7.57	43	1302	0.488	ug/l #	1
70) Styrene	9.81	104	92	2.319	ug/l #	24
73) Isopropylbenzene	10.17	105	9697	1.260	ug/l	97
76) 1,2,3-Trichloropropane	10.31	75	56764	20.669	ug/l #	37
78) n-propylbenzene	10.59	91	22200	2.401	ug/l	100
80) 1,3,5-Trimethylbenzene	10.77	105	9419	1.504	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.31	75	56764	54.092	ug/l #	100
82) 4-Chlorotoluene	10.77	91	1398	0.221	ug/l #	48
83) tert-Butylbenzene	11.10	119	2539	0.419	ug/l	93
84) 1,2,4-Trimethylbenzene	11.15	105	227971	35.624	ug/l	100
85) sec-Butylbenzene	11.32	105	11471	1.503	ug/l	100
86) p-Isopropyltoluene	11.48	119	11448	1.752	ug/l	97
89) n-Butylbenzene	11.89	91	8588	3.140	ug/l #	53
90) Hexachloroethane	12.15	117	1472	1.195	ug/l #	12
95) Naphthalene	13.75	128	3202	2.046	ug/l #	95

(#) = 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: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

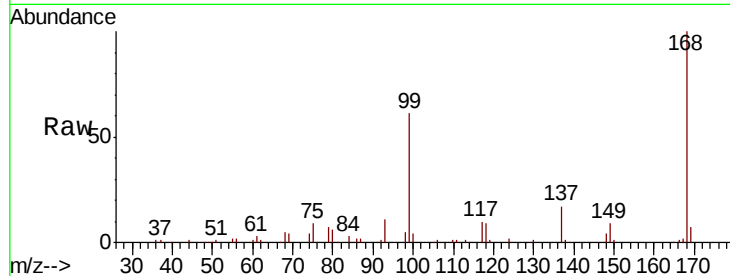
EP-MW-H-092718DL

Tgt Ion:168 Resp: 112477

Ion Ratio Lower Upper

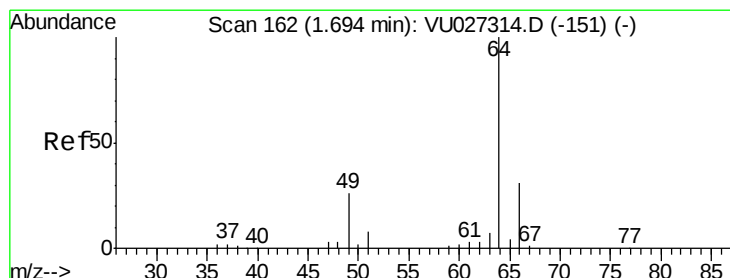
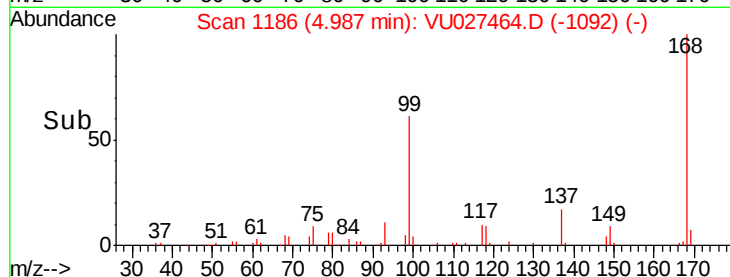
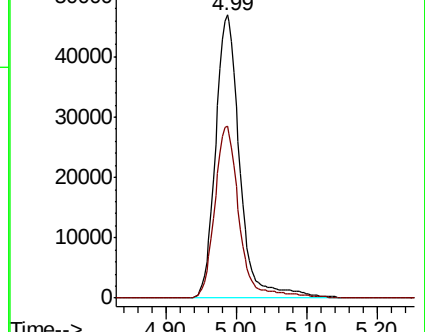
168 100

99 60.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)



#6

Chloroethane

Concen: 2.092 ug/l

RT: 1.59 min Scan# 131

Delta R.T. -0.10 min

Lab File: VU027464.D

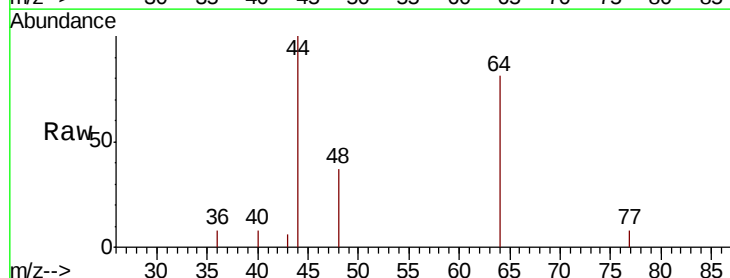
Acq: 05 Oct 2018 19:33

Tgt Ion: 64 Resp: 2594

Ion Ratio Lower Upper

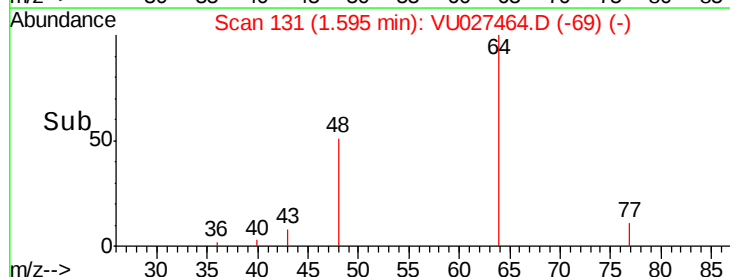
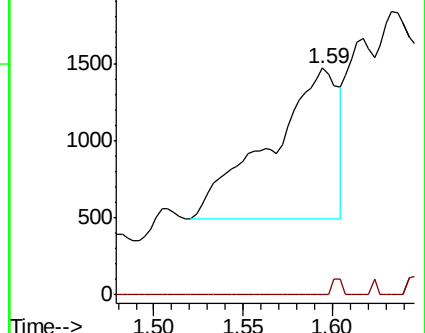
64 100

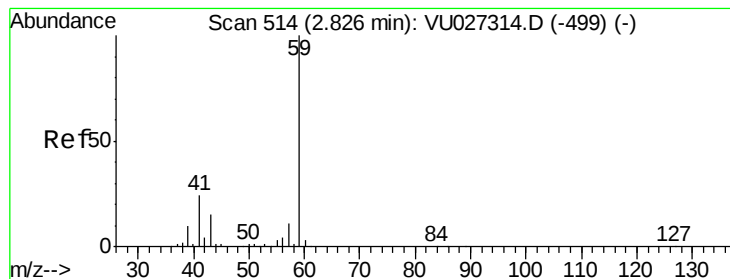
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VU027314.D (-151) (-)

Ion 65.90 (65.60 to 66.60): VU027314.D (-151) (-)





#11

Tert butyl alcohol

Concen: 0.569 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

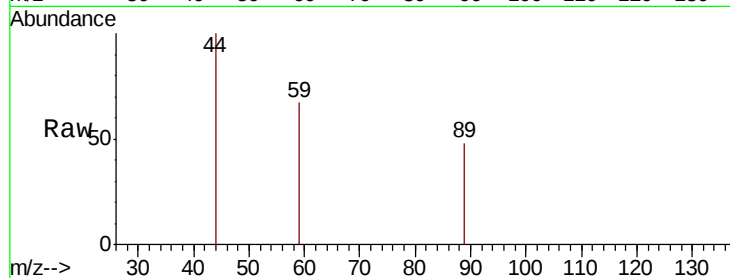
EP-MW-H-092718DL

Tgt Ion: 59 Resp: 225

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.84

200

150

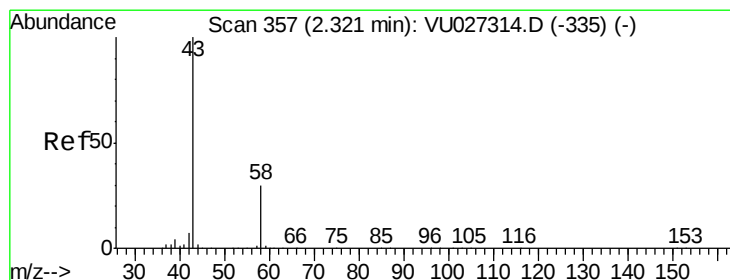
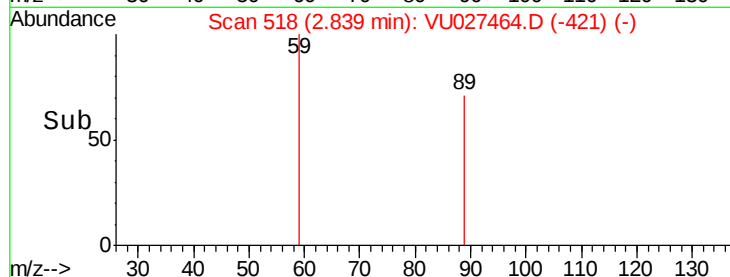
100

50

0

2.82 2.84 2.86

Time-->



#16

Acetone

Concen: 4.194 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027464.D

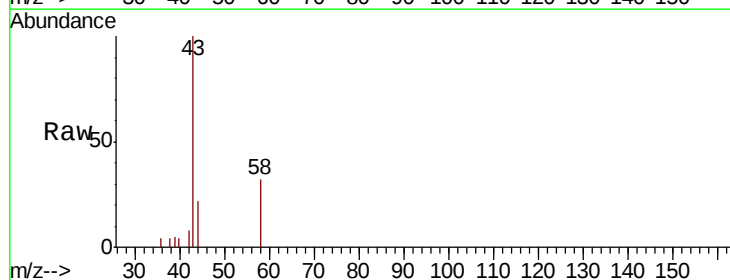
Acq: 05 Oct 2018 19:33

Tgt Ion: 43 Resp: 4653

Ion Ratio Lower Upper

43 100

58 31.9 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

3000

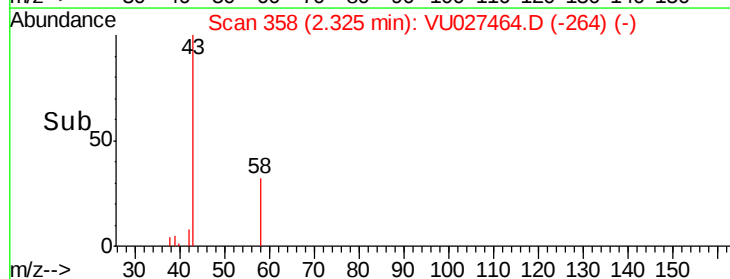
2000

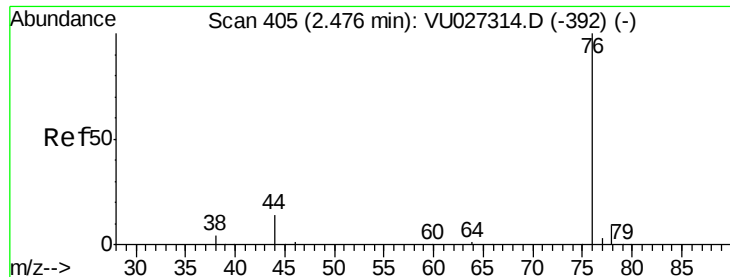
1000

0

2.30 2.35

Time-->





#17

Carbon Disulfide

Concen: 0.360 ug/l

RT: 2.48 min Scan# 406

Delta R.T. 0.00 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

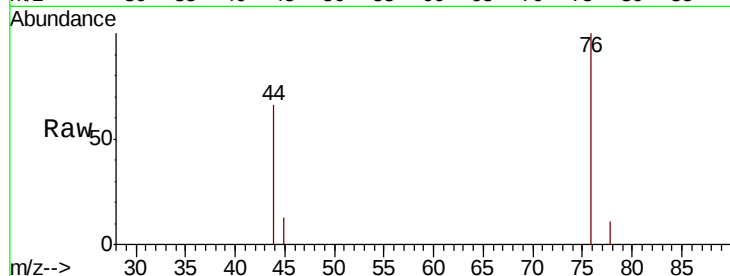
EP-MW-H-092718DL

Tgt Ion: 76 Resp: 1541

Ion Ratio Lower Upper

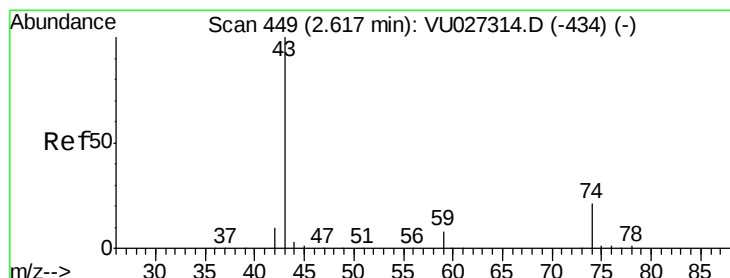
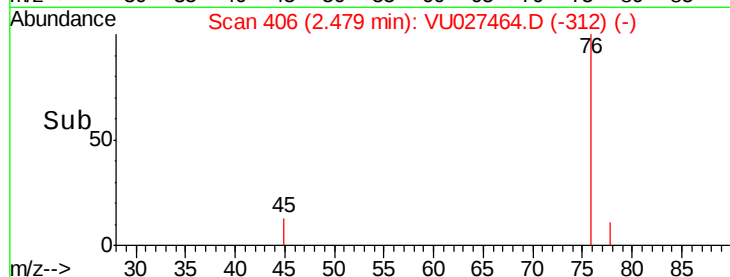
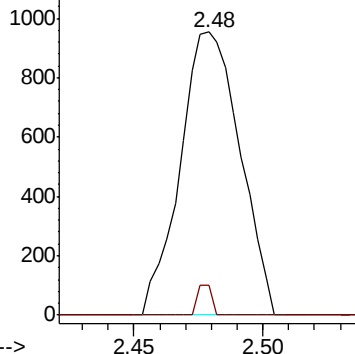
76 100

78 10.7 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 0.225 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU027464.D

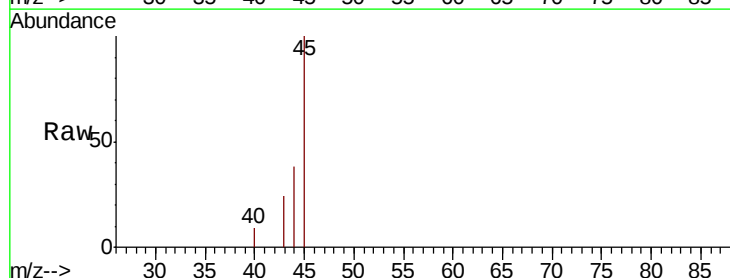
Acq: 05 Oct 2018 19:33

Tgt Ion: 43 Resp: 569

Ion Ratio Lower Upper

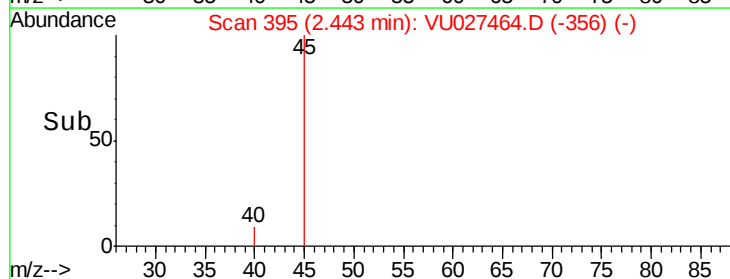
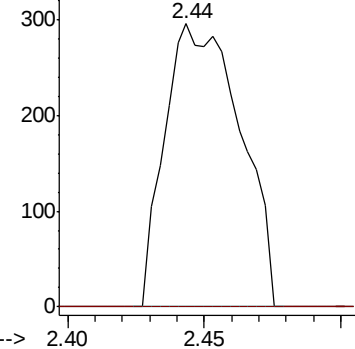
43 100

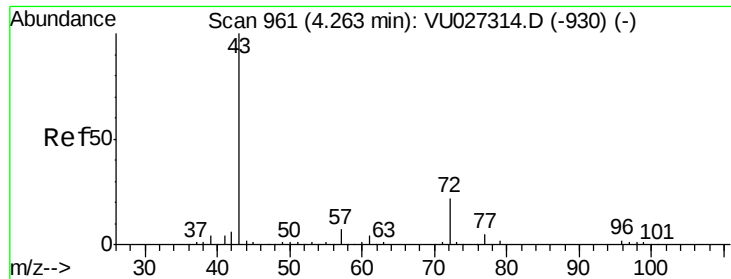
74 0.0 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

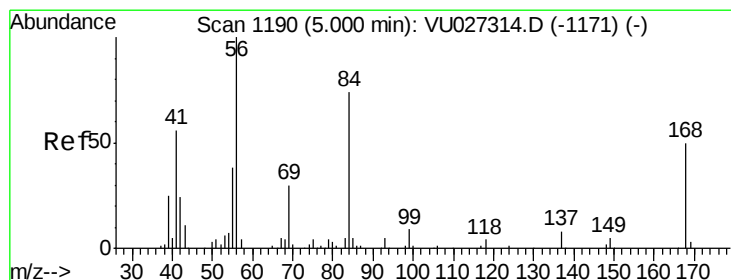
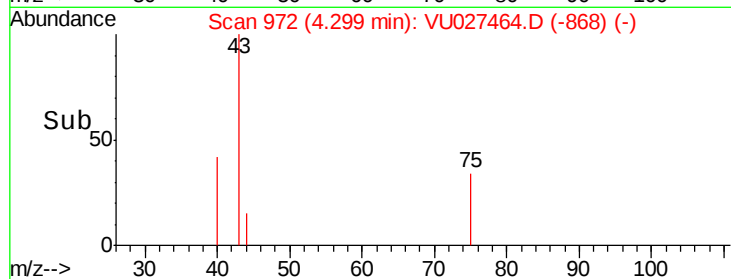
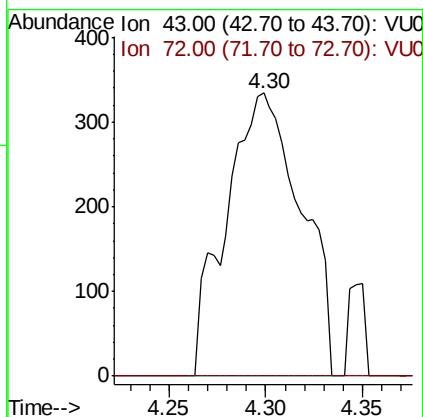
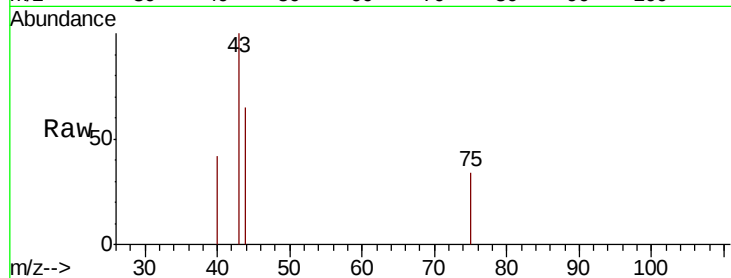




#25
2-Butanone
Concen: 0.595 ug/l
RT: 4.30 min Scan# 972
Delta R.T. 0.04 min
Lab File: VU027464.D
Acq: 05 Oct 2018 19:33

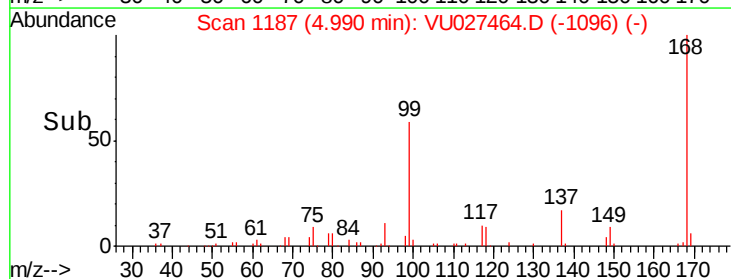
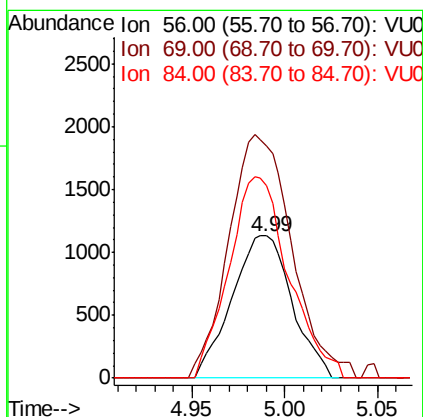
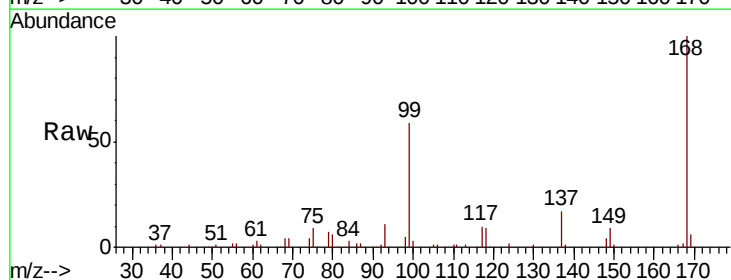
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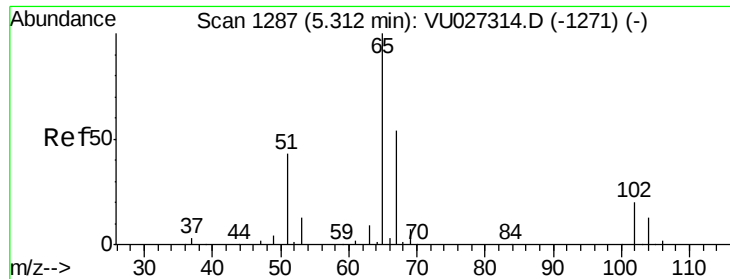
Tgt Ion: 43 Resp: 900
Ion Ratio Lower Upper
43 100
72 0.0 17.8 26.6#



#31
Cyclohexane
Concen: 0.610 ug/l
RT: 4.99 min Scan# 1187
Delta R.T. -0.01 min
Lab File: VU027464.D
Acq: 05 Oct 2018 19:33

Tgt Ion: 56 Resp: 2544
Ion Ratio Lower Upper
56 100
69 162.8 24.1 36.1#
84 135.3 59.1 88.7#

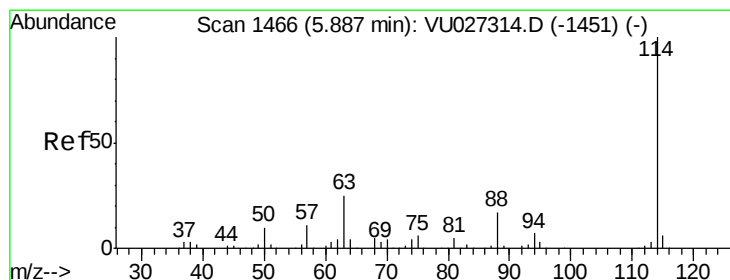
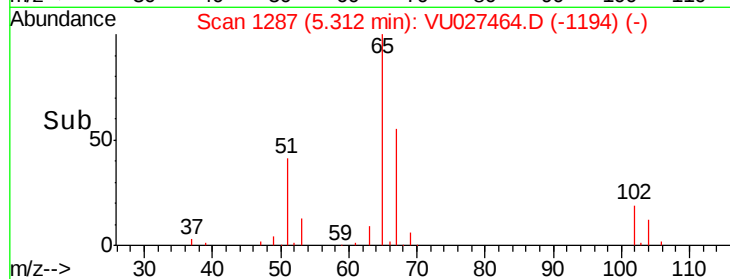
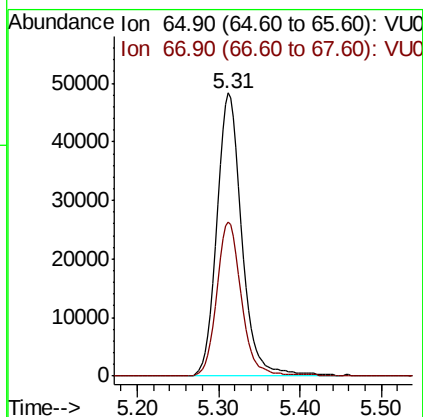
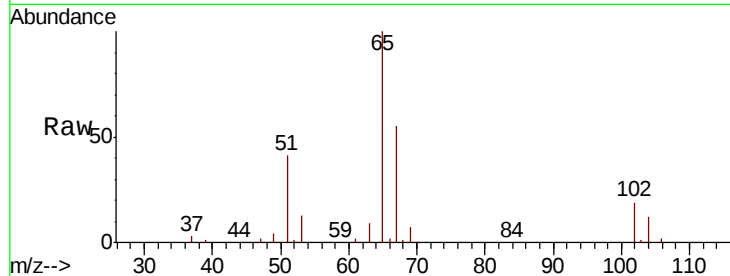




#33
 1,2-Dichloroethane-d4
 Concen: 56.019 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. 0.00 min
 Lab File: VU027464.D
 Acq: 05 Oct 2018 19:33

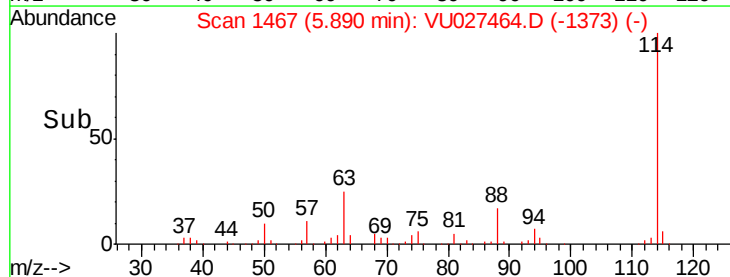
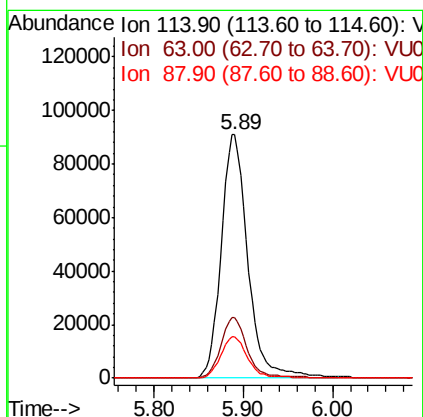
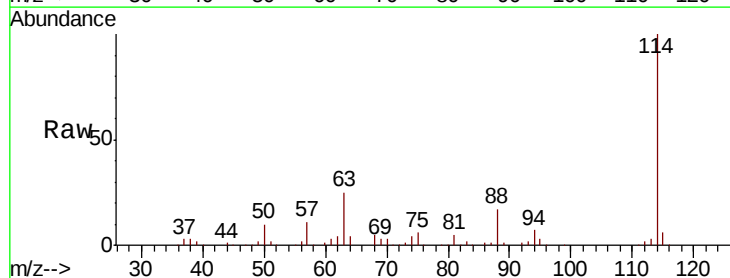
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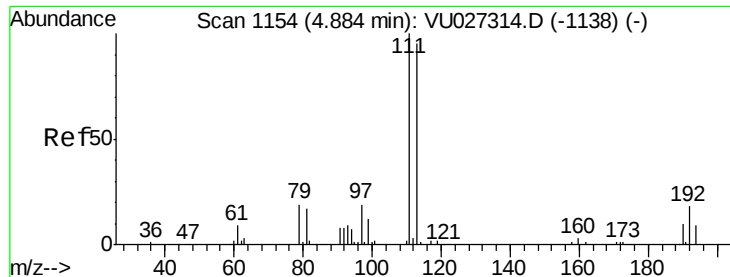
Tgt Ion: 65 Resp: 105213
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1467
 Delta R.T. 0.00 min
 Lab File: VU027464.D
 Acq: 05 Oct 2018 19:33

Tgt Ion: 114 Resp: 188320
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 50.2
 88 17.2 0.0 33.8

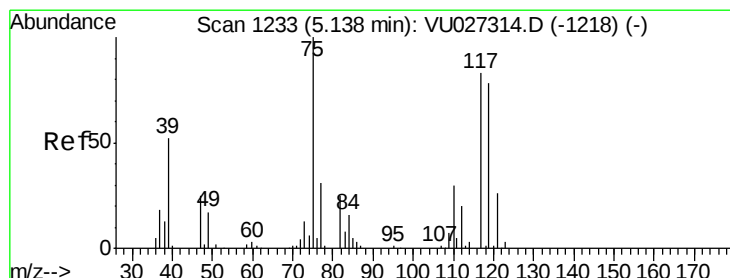
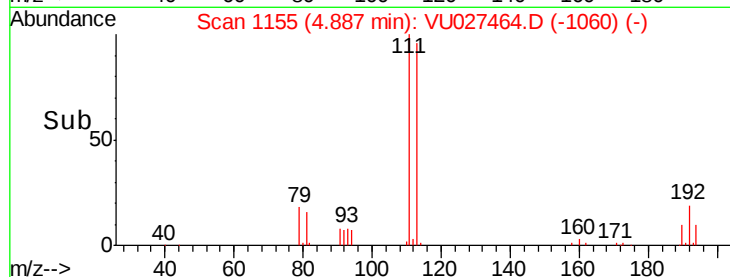
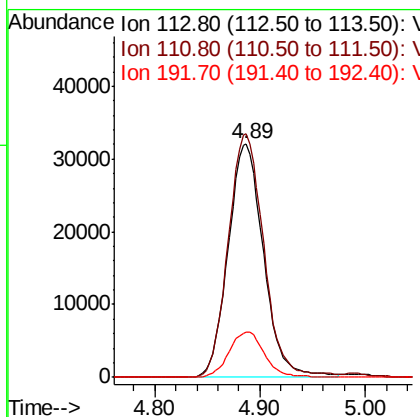
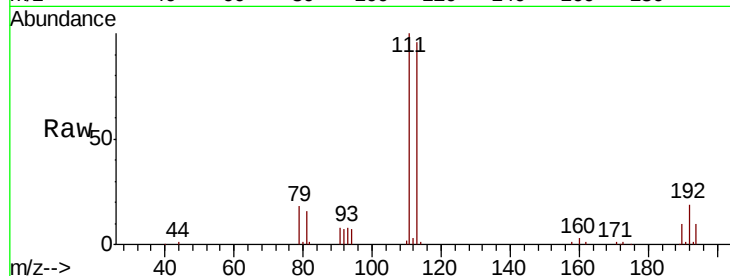




#35
 Dibromofluoromethane
 Concen: 57.972 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU027464.D
 Acq: 05 Oct 2018 19:33

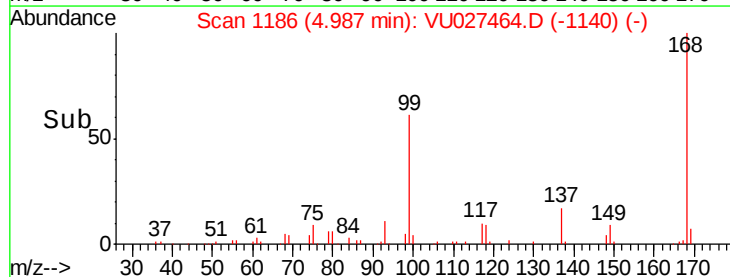
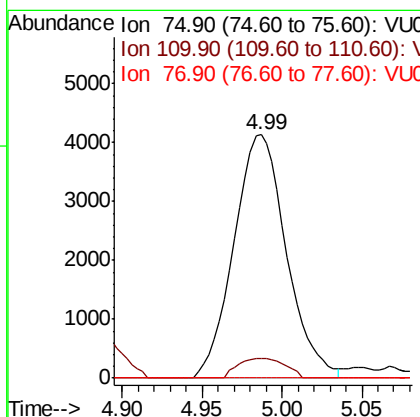
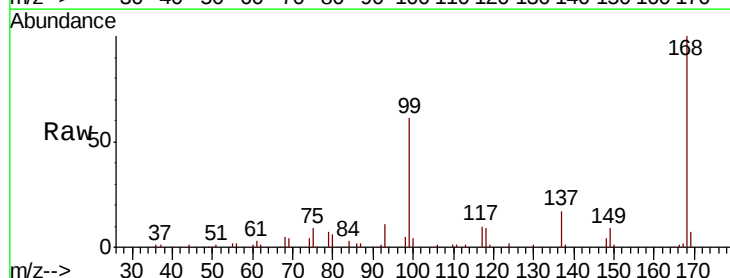
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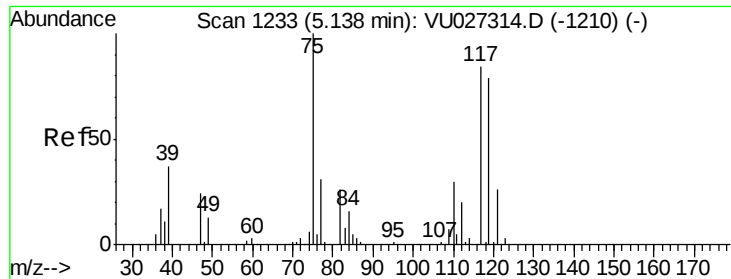
Tgt Ion:113 Resp: 74820
 Ion Ratio Lower Upper
 113 100
 111 103.8 83.1 124.7
 192 19.5 15.4 23.0



#36
 1,1-Dichloropropene
 Concen: 4.530 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU027464.D
 Acq: 05 Oct 2018 19:33

Tgt Ion: 75 Resp: 9262
 Ion Ratio Lower Upper
 75 100
 110 7.2 15.5 46.5#
 77 0.0 25.4 38.0#





#38

Carbon Tetrachloride

Concen: 5.699 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

EP-MW-H-092718DL

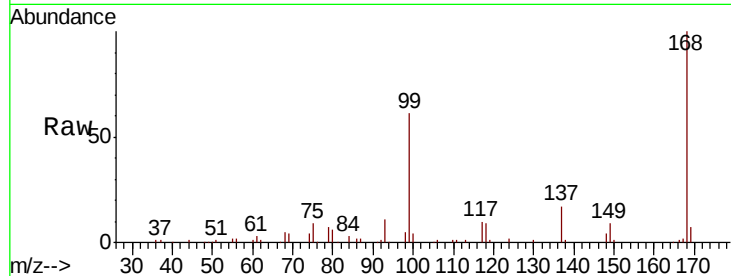
Tgt Ion:117 Resp: 10526

Ion Ratio Lower Upper

117 100

119 5.2 74.5 111.7#

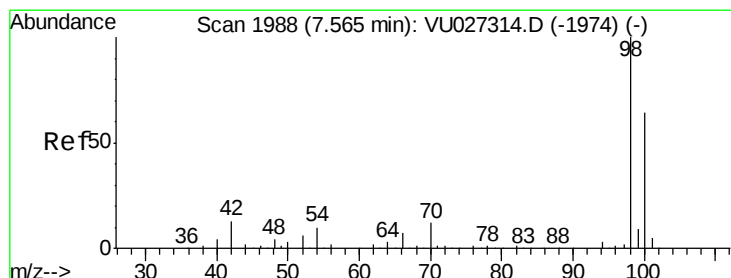
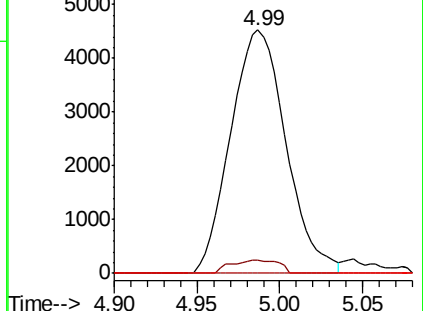
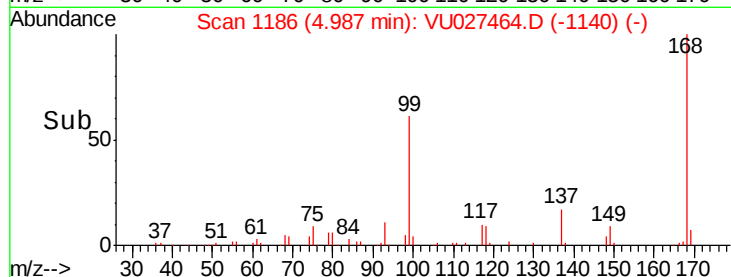
121 0.0 24.6 37.0#



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: 60.362 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU027464.D

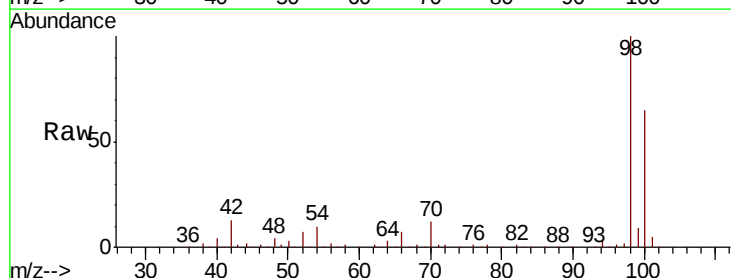
Acq: 05 Oct 2018 19:33

Tgt Ion: 98 Resp: 291571

Ion Ratio Lower Upper

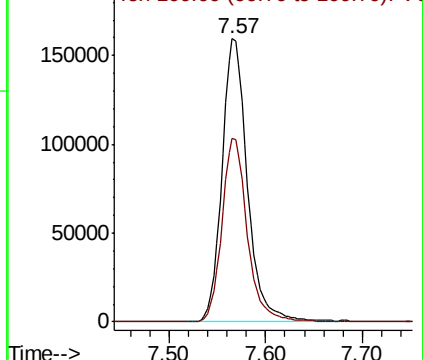
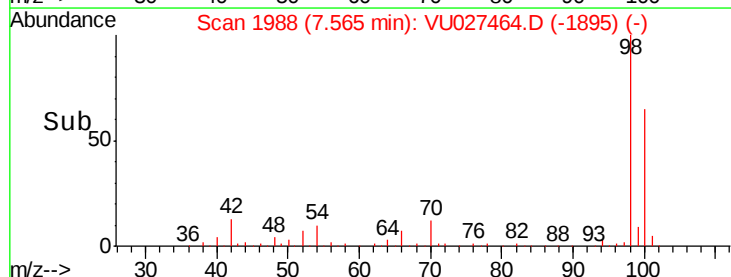
98 100

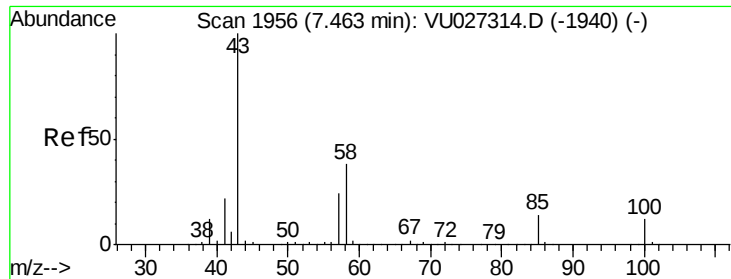
100 64.7 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#51

4-Methyl-2-Pentanone

Concen: 0.488 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.10 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

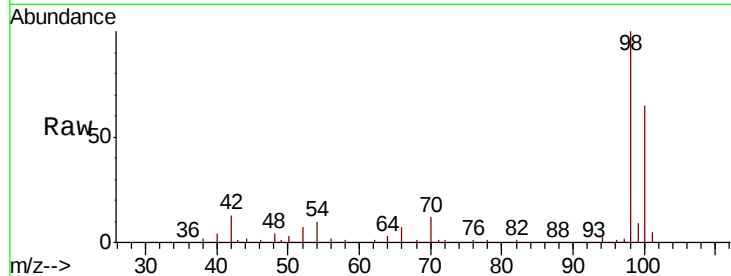
EP-MW-H-092718DL

Tgt Ion: 43 Resp: 1302

Ion Ratio Lower Upper

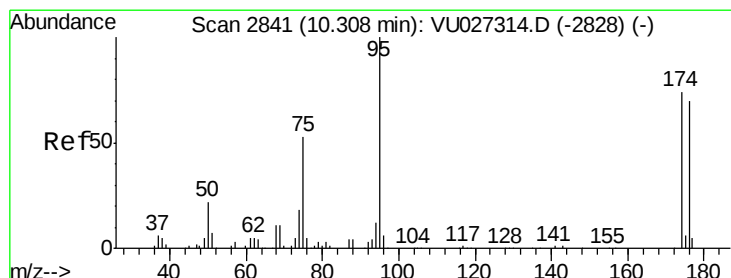
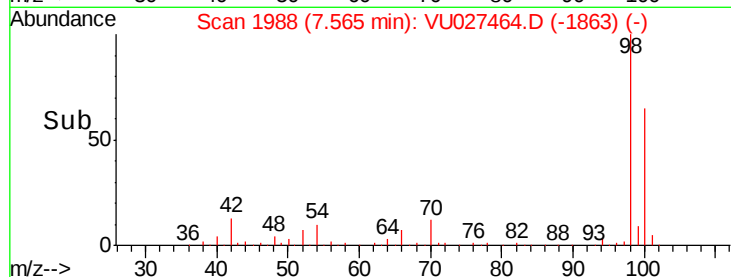
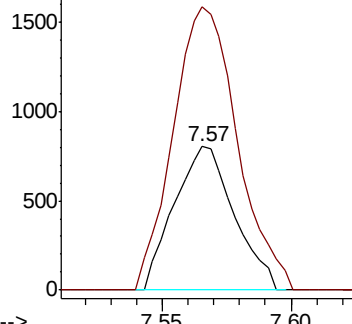
43 100

58 210.5 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 60.834 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

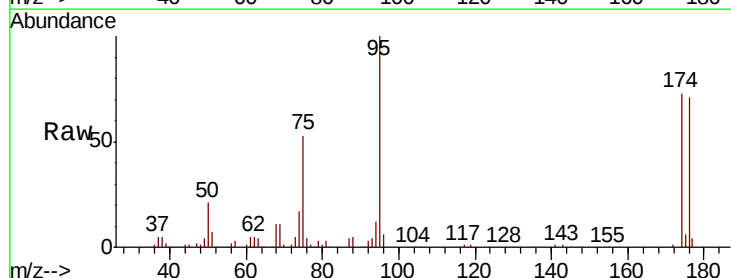
Tgt Ion: 95 Resp: 109207

Ion Ratio Lower Upper

95 100

174 73.4 0.0 147.8

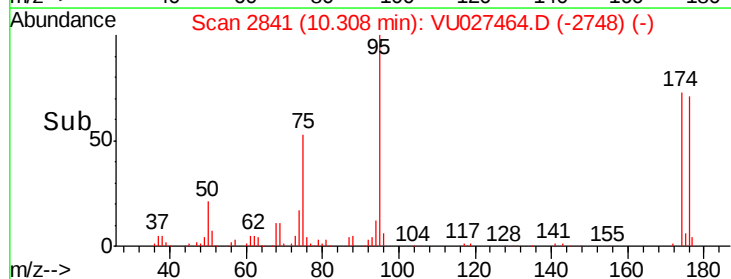
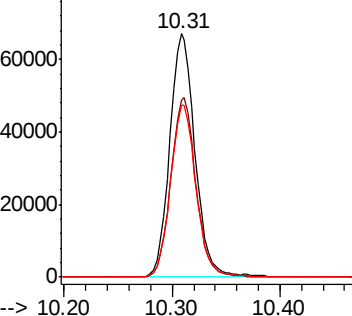
176 71.1 0.0 140.8

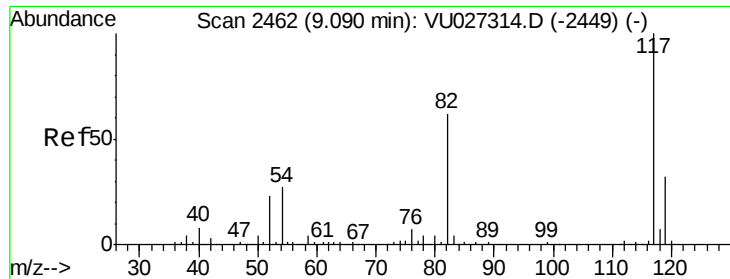


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

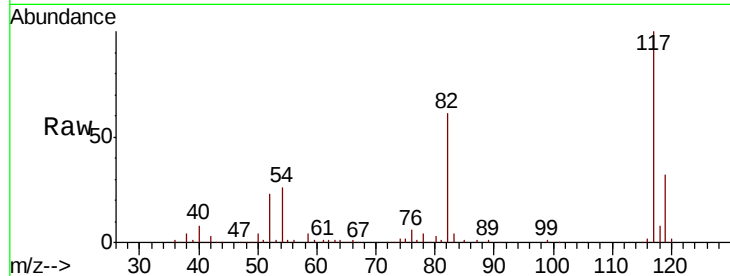




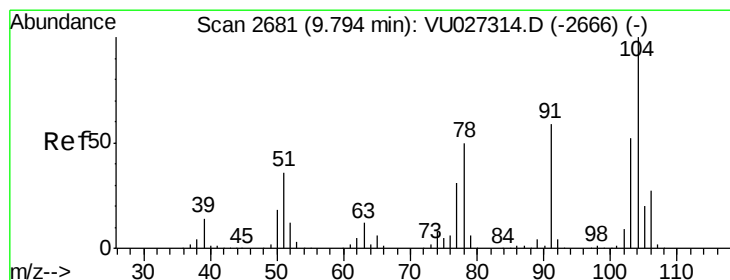
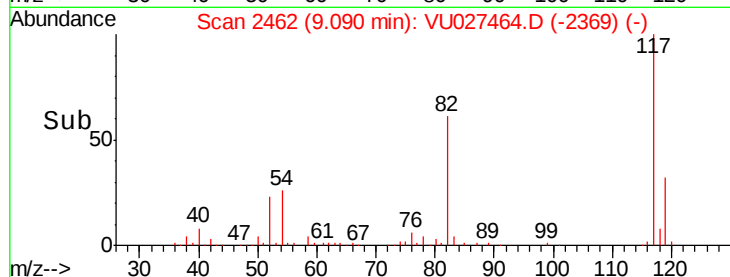
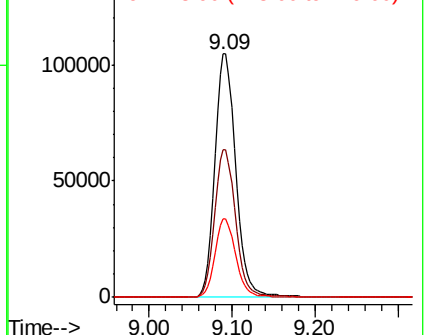
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VU027464.D
Acq: 05 Oct 2018 19:33

Instrument :
MSVOA_U
ClientSampleId :
EP-MW-H-092718DL

Tgt Ion:117 Resp: 183574
Ion Ratio Lower Upper
117 100
82 60.8 49.2 73.8
119 32.4 25.7 38.5

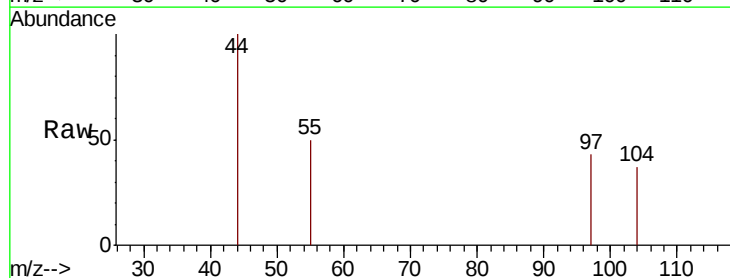


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

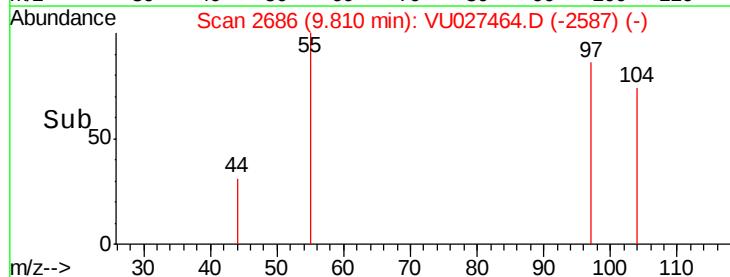
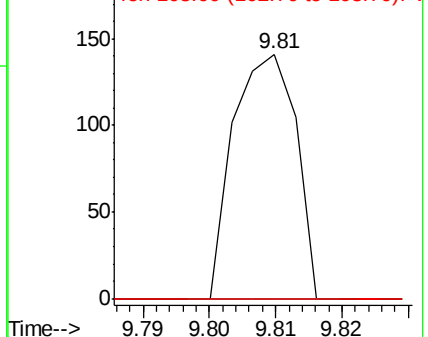


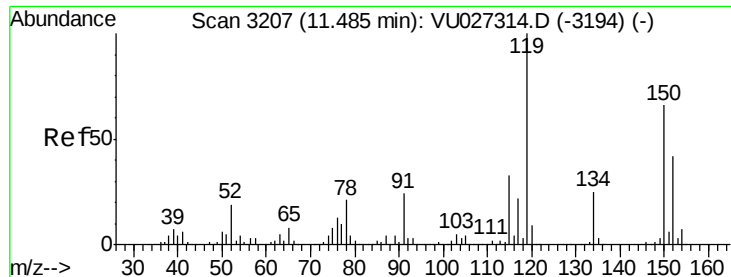
#70
Styrene
Concen: 2.319 ug/l
RT: 9.81 min Scan# 2686
Delta R.T. 0.02 min
Lab File: VU027464.D
Acq: 05 Oct 2018 19:33

Tgt Ion:104 Resp: 92
Ion Ratio Lower Upper
104 100
78 0.0 42.9 64.3#
103 0.0 43.9 65.9#



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: 11.48 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

EP-MW-H-092718DL

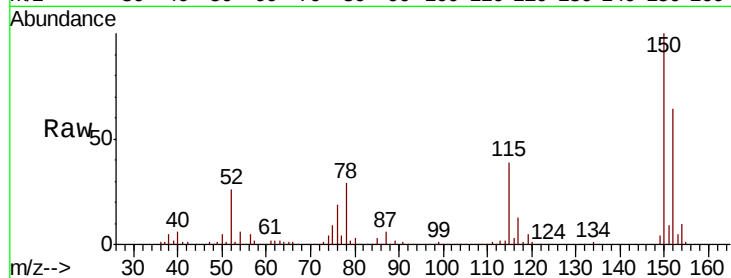
Tgt Ion:152 Resp: 105946

Ion Ratio Lower Upper

152 100

115 60.1 43.4 130.2

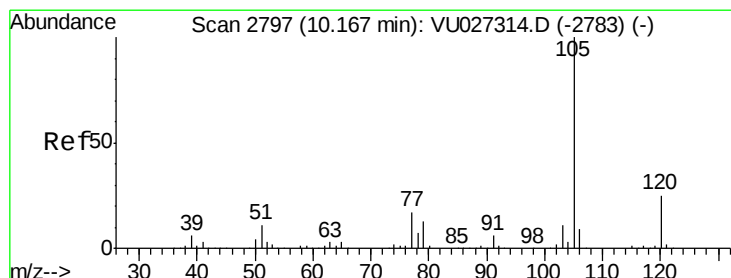
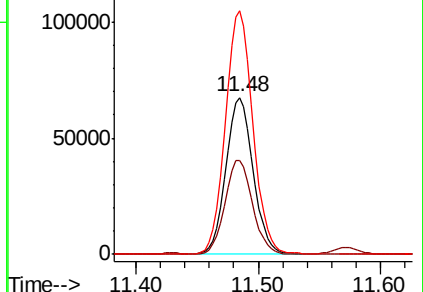
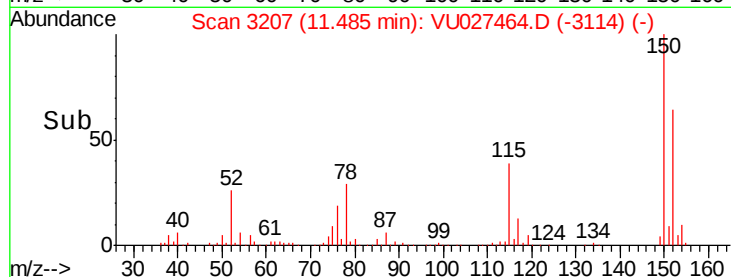
150 156.3 0.0 349.2



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



#73

Isopropylbenzene

Concen: 1.260 ug/l

RT: 10.17 min Scan# 2797

Delta R.T. 0.00 min

Lab File: VU027464.D

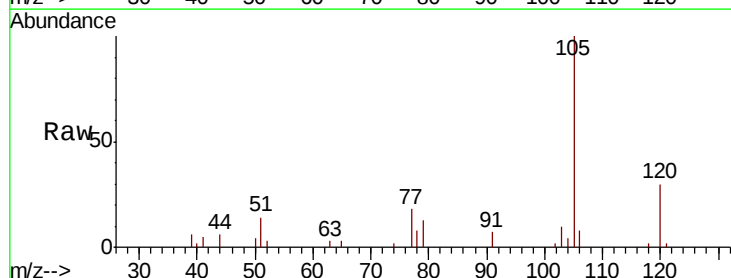
Acq: 05 Oct 2018 19:33

Tgt Ion:105 Resp: 9697

Ion Ratio Lower Upper

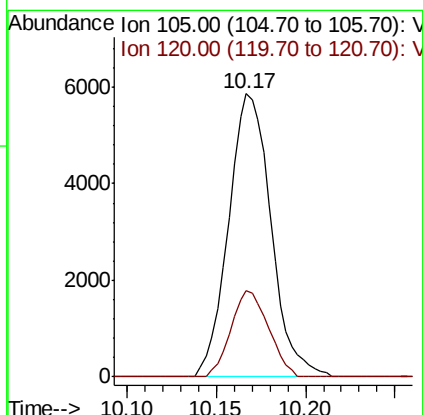
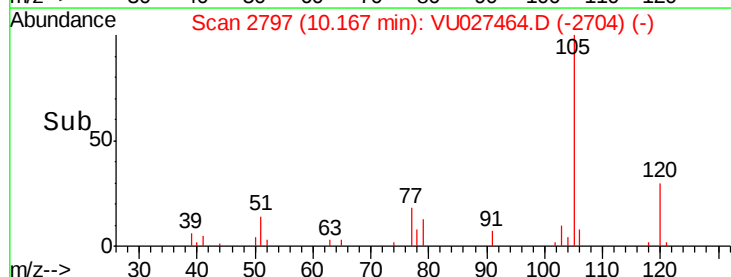
105 100

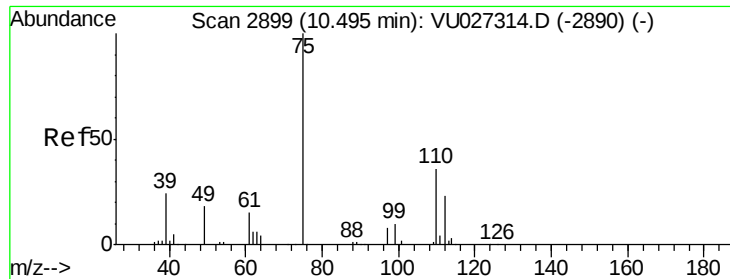
120 26.9 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 20.669 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

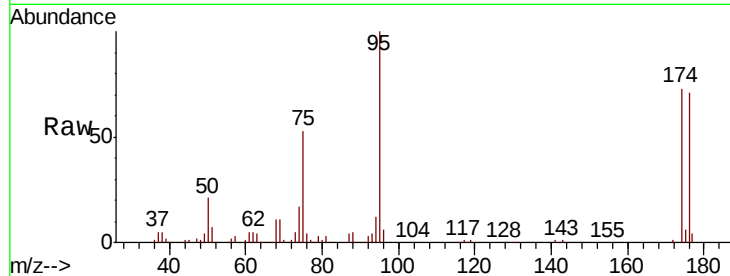
EP-MW-H-092718DL

Tgt Ion: 75 Resp: 56764

Ion Ratio Lower Upper

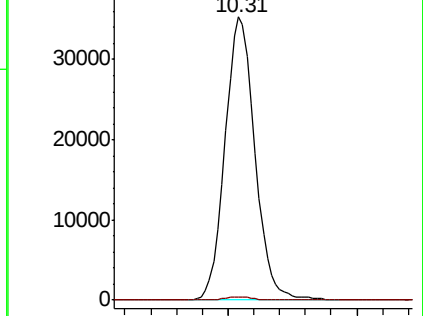
75 100

77 1.1 20.3 60.9#

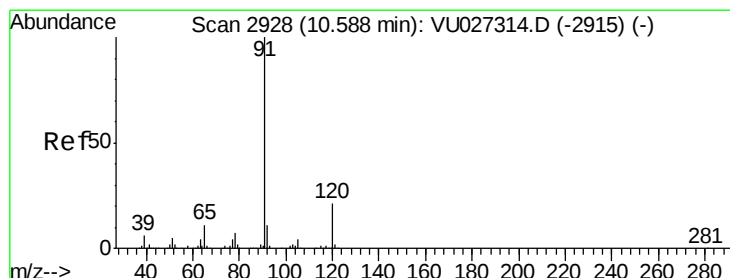
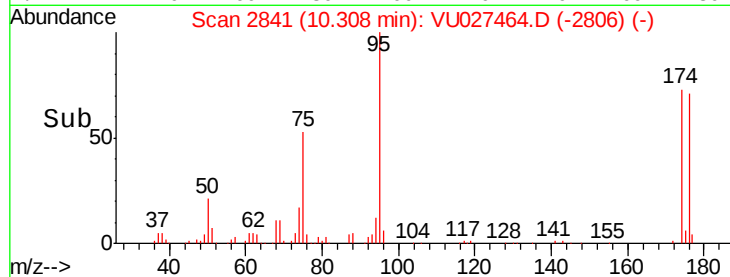


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



Time-->



#78

n-propylbenzene

Concen: 2.401 ug/l

RT: 10.59 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VU027464.D

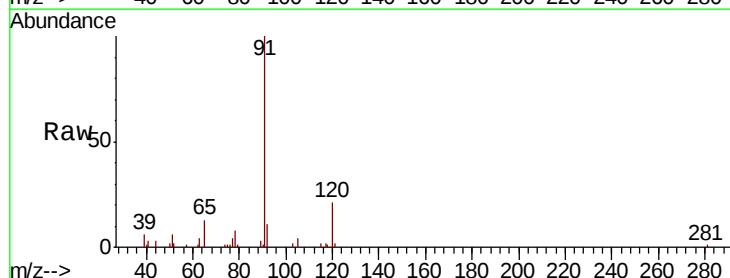
Acq: 05 Oct 2018 19:33

Tgt Ion: 91 Resp: 22200

Ion Ratio Lower Upper

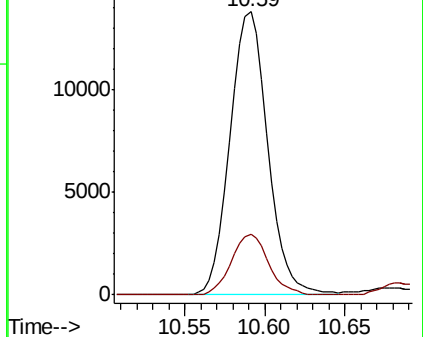
91 100

120 21.0 10.6 31.8

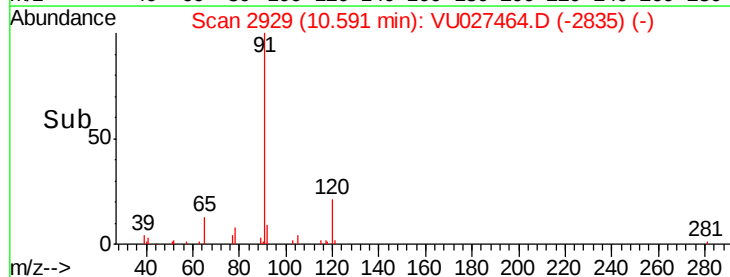


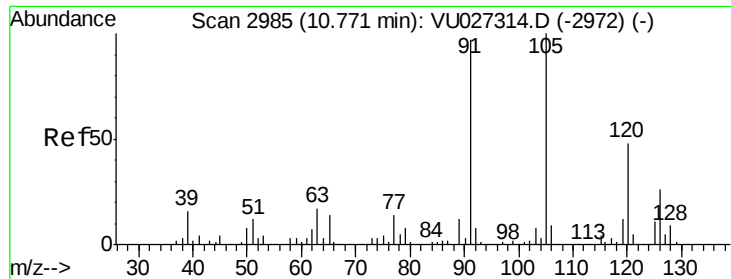
Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V



Time-->





#80

1,3,5-Trimethylbenzene

Concen: 1.504 ug/l

RT: 10.77 min Scan# 2986

Delta R.T. 0.00 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

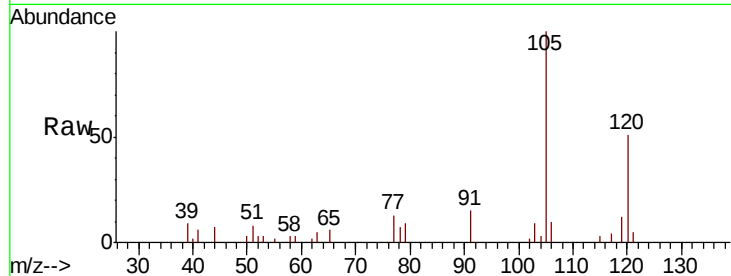
EP-MW-H-092718DL

Tgt Ion: 105 Resp: 9419

Ion Ratio Lower Upper

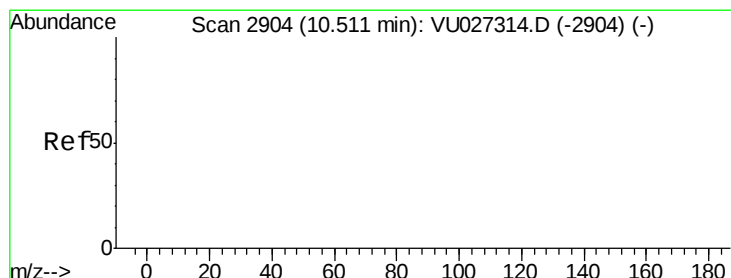
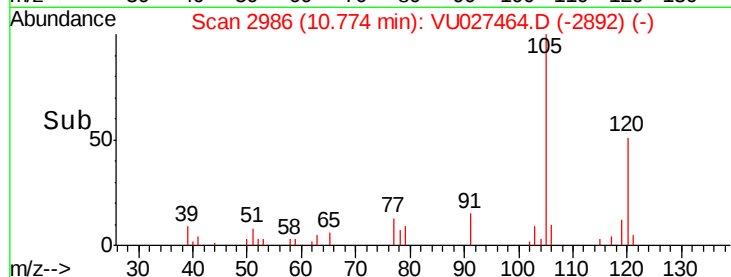
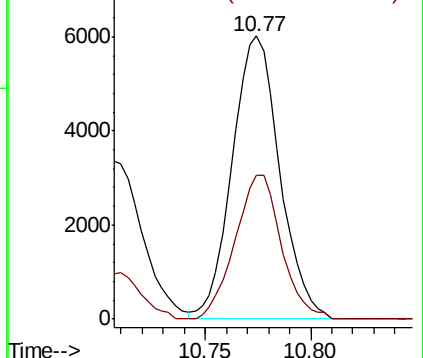
105 100

120 49.5 24.1 72.4



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: 54.092 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

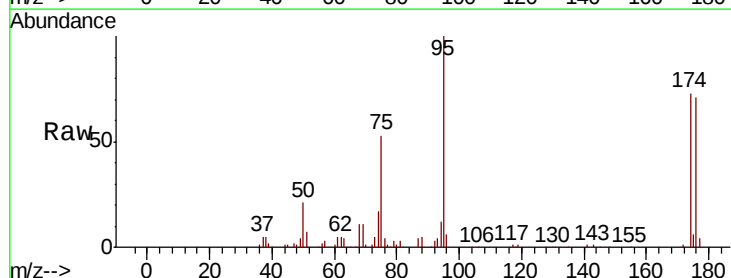
Tgt Ion: 75 Resp: 56764

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

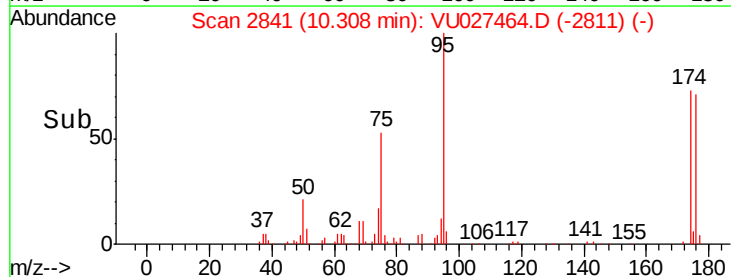
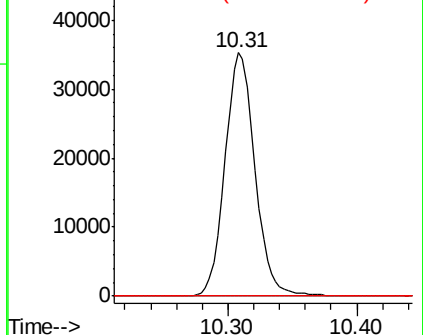
89 0.0 0.0 0.0

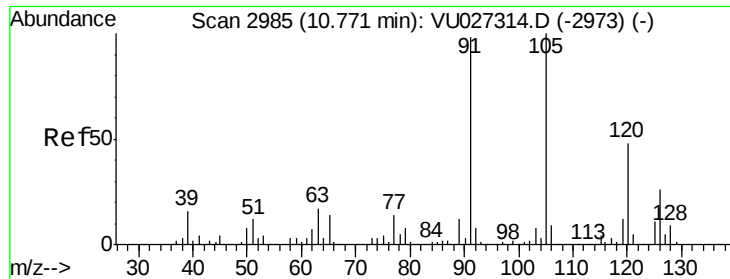


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

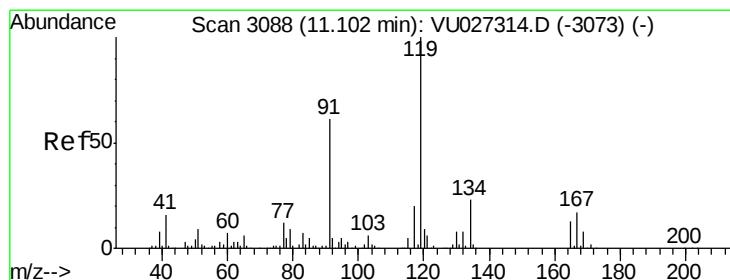
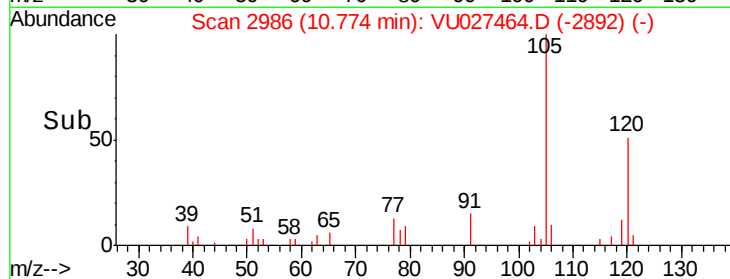
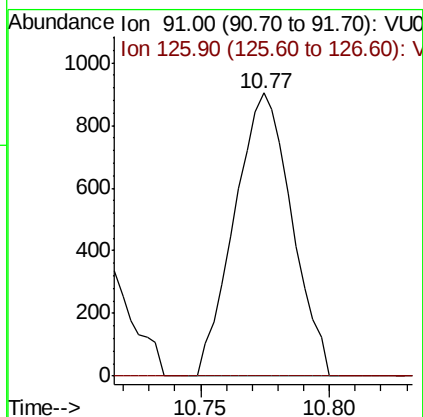
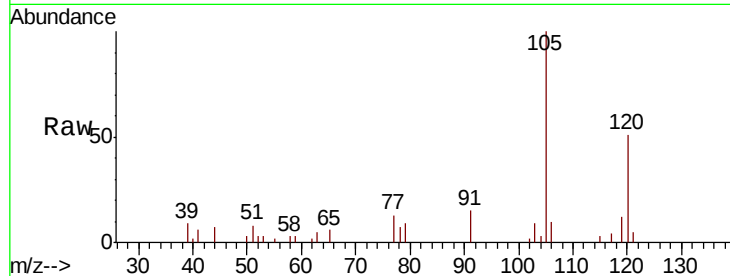




#82
4-Chlorotoluene
Concen: 0.221 ug/l
RT: 10.77 min Scan# 2986
Delta R.T. 0.00 min
Lab File: VU027464.D
Acq: 05 Oct 2018 19:33

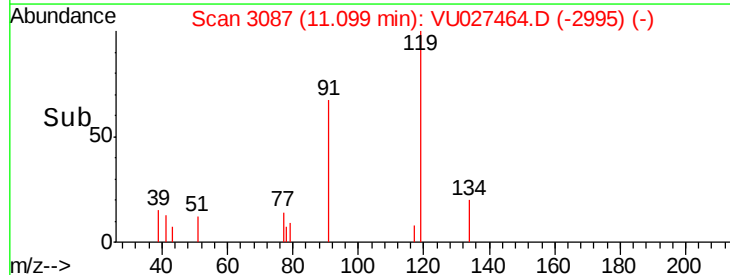
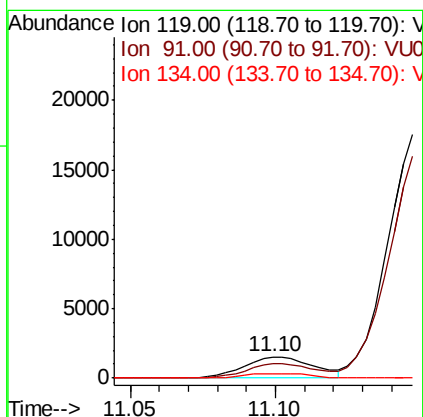
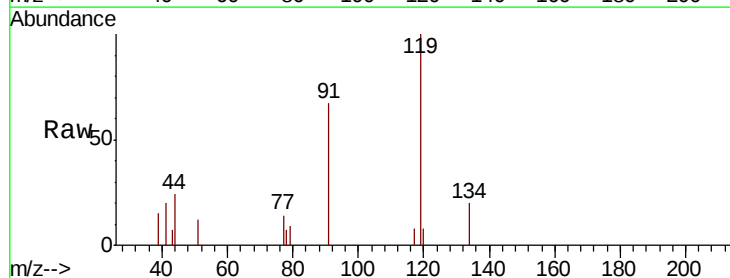
Instrument :
MSVOA_U
ClientSampleId :
EP-MW-H-092718DL

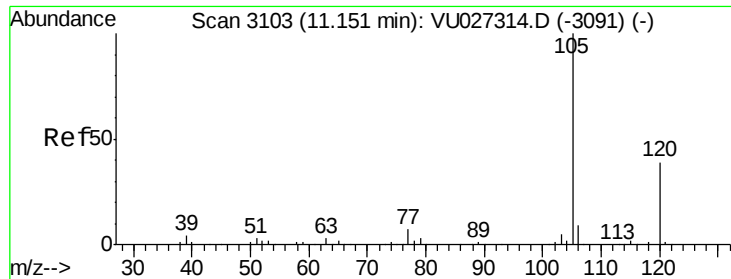
Tgt Ion: 91 Resp: 1398
Ion Ratio Lower Upper
91 100
126 0.0 13.6 40.8#



#83
tert-Butylbenzene
Concen: 0.419 ug/l
RT: 11.10 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VU027464.D
Acq: 05 Oct 2018 19:33

Tgt Ion: 119 Resp: 2539
Ion Ratio Lower Upper
119 100
91 65.2 30.3 91.0
134 17.9 11.5 34.4

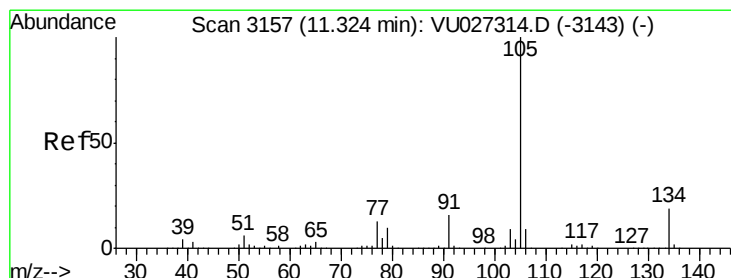
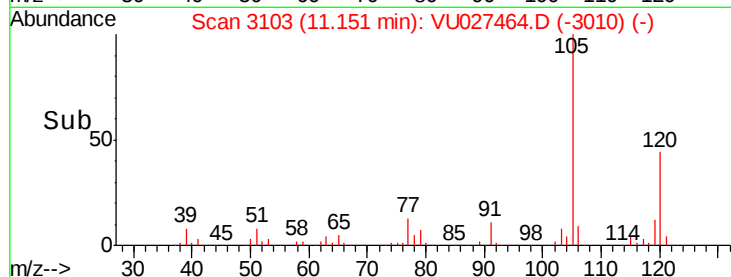
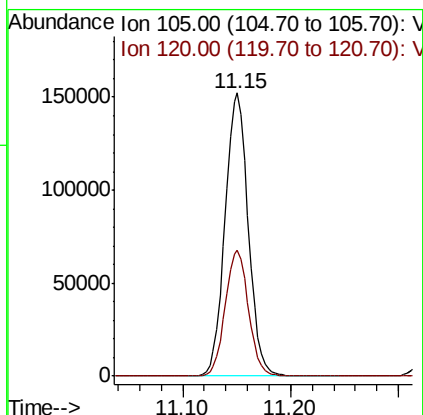
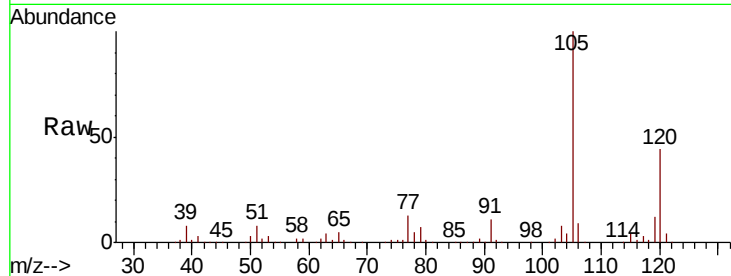




#84
 1,2,4-Trimethylbenzene
 Concen: 35.624 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. 0.00 min
 Lab File: VU027464.D
 Acq: 05 Oct 2018 19:33

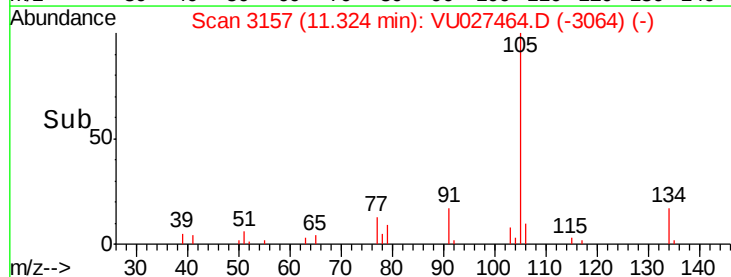
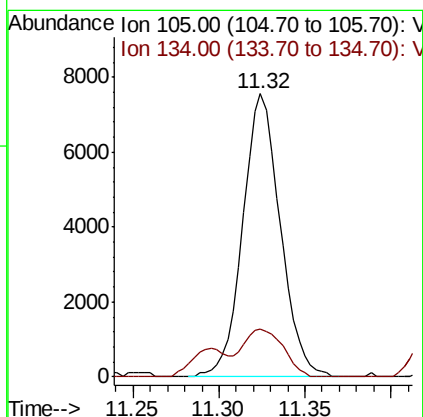
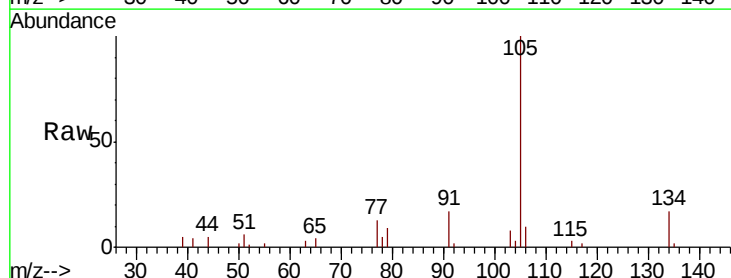
Instrument :
 MSVOA_U
 ClientSampleId :
 EP-MW-H-092718DL

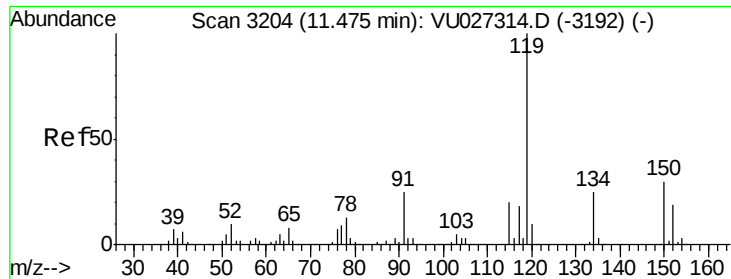
Tgt Ion:105 Resp: 227971
 Ion Ratio Lower Upper
 105 100
 120 44.6 22.1 66.5



#85
 sec-Butylbenzene
 Concen: 1.503 ug/l
 RT: 11.32 min Scan# 3157
 Delta R.T. -0.00 min
 Lab File: VU027464.D
 Acq: 05 Oct 2018 19:33

Tgt Ion:105 Resp: 11471
 Ion Ratio Lower Upper
 105 100
 134 18.9 9.6 28.6

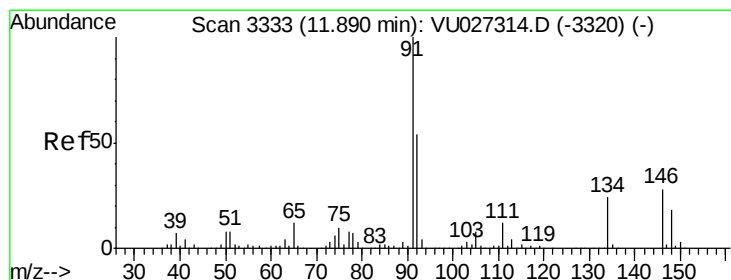
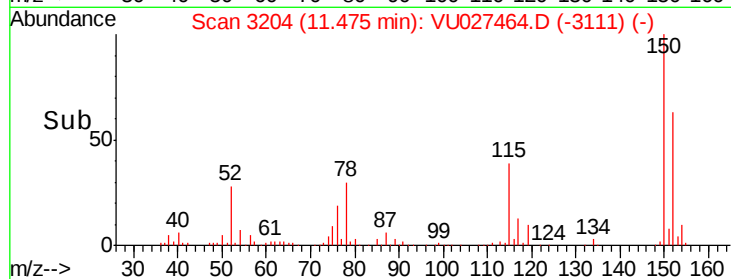
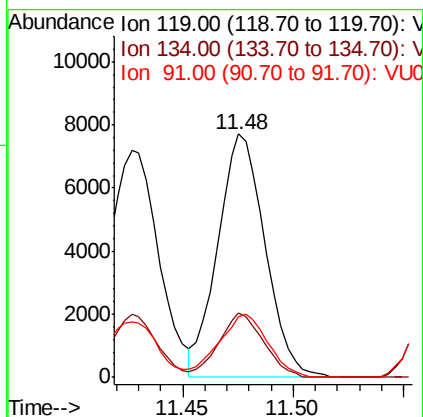
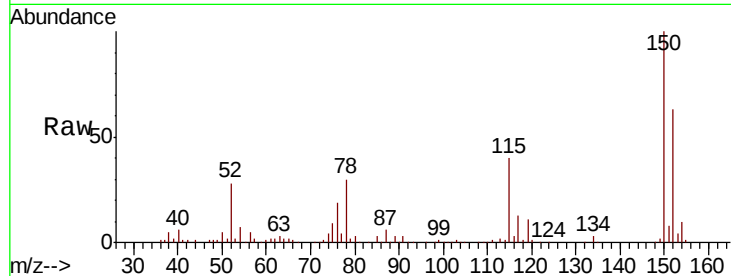




#86
 p-Isopropyltoluene
 Concen: 1.752 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU027464.D
 Acq: 05 Oct 2018 19:33

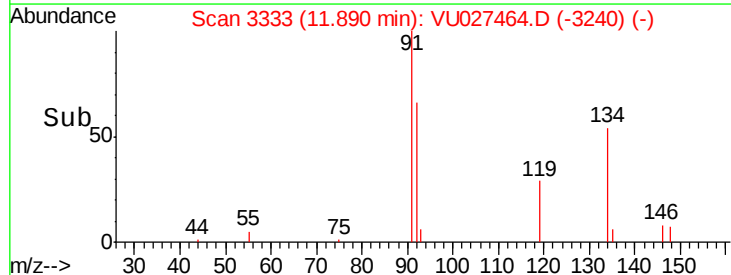
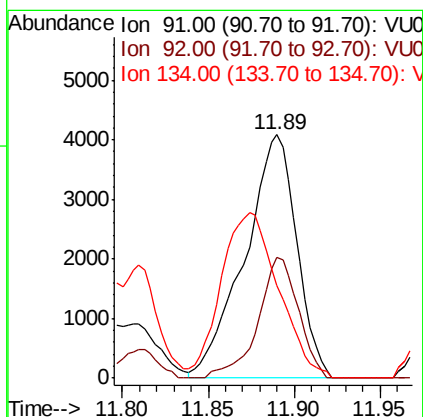
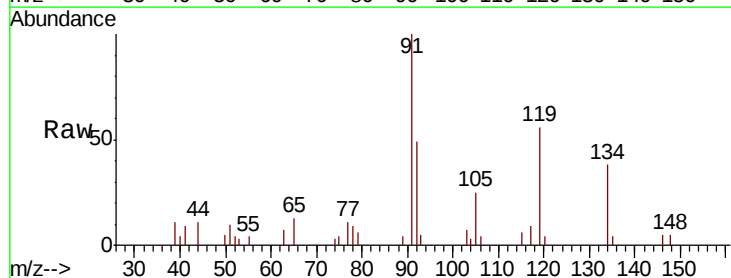
Instrument :
 MSVOA_U
 ClientSampleId :
 EP-MW-H-092718DL

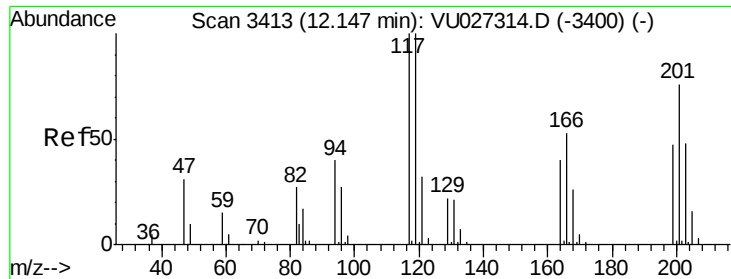
Tgt Ion: 119 Resp: 11448
 Ion Ratio Lower Upper
 119 100
 134 24.9 12.7 38.1
 91 26.9 12.2 36.4



#89
 n-Butylbenzene
 Concen: 3.140 ug/l
 RT: 11.89 min Scan# 3333
 Delta R.T. 0.00 min
 Lab File: VU027464.D
 Acq: 05 Oct 2018 19:33

Tgt Ion: 91 Resp: 8588
 Ion Ratio Lower Upper
 91 100
 92 38.4 27.0 81.0
 134 74.8 11.7 35.1#





#90

Hexachloroethane

Concen: 1.195 ug/l

RT: 12.15 min Scan# 3413

Delta R.T. -0.00 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

Instrument :

MSVOA_U

ClientSampleId :

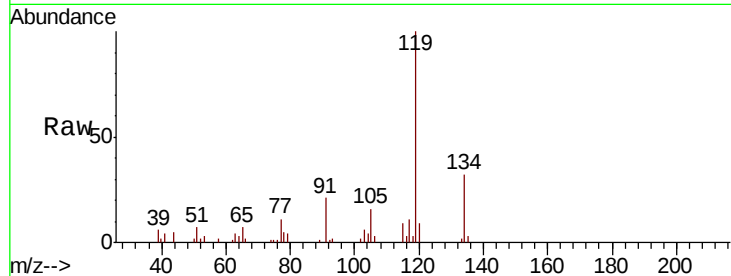
EP-MW-H-092718DL

Tgt Ion:117 Resp: 1472

Ion Ratio Lower Upper

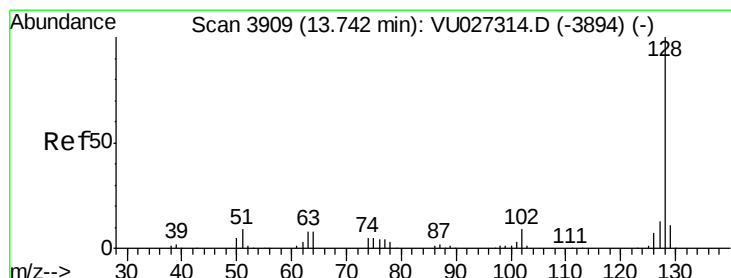
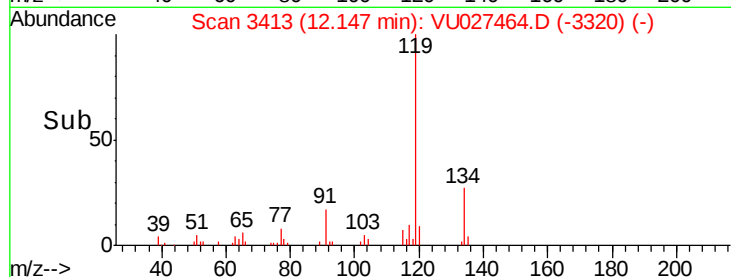
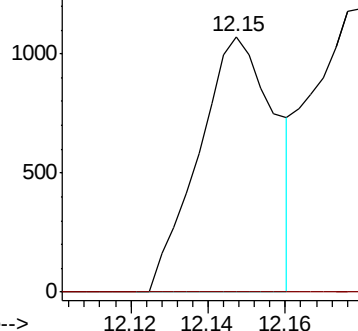
117 100

201 0.0 37.9 113.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 2.046 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU027464.D

Acq: 05 Oct 2018 19:33

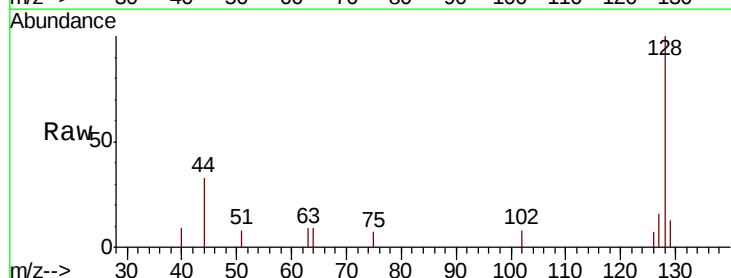
Tgt Ion:128 Resp: 3202

Ion Ratio Lower Upper

128 100

127 9.7 10.5 15.7#

129 10.8 8.6 12.8



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

