

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070518\
 Data File : VU025221.D
 Acq On : 05 Jul 2018 17:27
 Operator : MD/SY
 Sample : J3808-16
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 06 05:15:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	210655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	314511	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	288102	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	147299	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	156863	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	
35) Dibromofluoromethane	4.89	113	125560	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
50) Toluene-d8	7.57	98	449245	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
62) 4-Bromofluorobenzene	10.31	95	162592	43.01	ug/l	0.00
Spiked Amount			Recovery	=	86.02%	

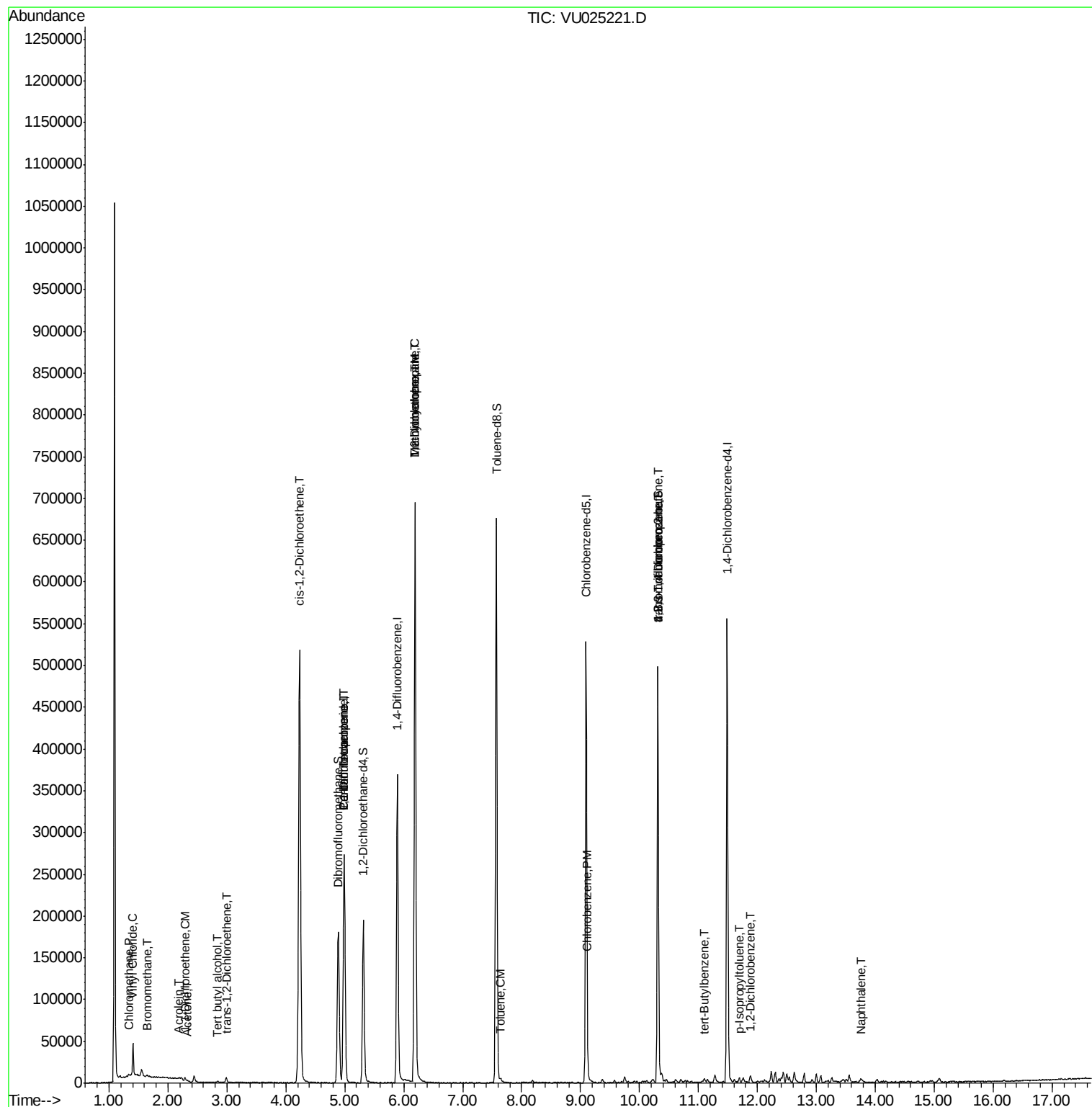
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1110	0.41	ug/l	99
4) Vinyl Chloride	1.41	62	23390	8.42	ug/l	99
5) Bromomethane	1.64	94	582	0.43	ug/l #	54
6) Chloroethane	1.79	64	220	Below Cal	#	43
11) Tert butyl alcohol	2.84	59	838	1.00	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	1633	0.68	ug/l	89
13) Acrolein	2.19	56	173	0.39	ug/l #	1
16) Acetone	2.32	43	1277	0.69	ug/l #	88
21) trans-1,2-Dichloroethene	2.99	96	2466	0.93	ug/l #	93
27) cis-1,2-Dichloroethene	4.23	96	294622	97.00	ug/l	88
31) Cyclohexane	4.99	56	4142	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15918	4.31	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19624	4.83	ug/l #	16
39) Methylcyclohexane	6.19	83	2598	0.56	ug/l #	1
44) Trichloroethene	6.19	130	243138	81.13	ug/l	94
45) 1,2-Dichloropropane	6.19	63	795	0.28	ug/l #	1
52) Toluene	7.64	92	1501	0.22	ug/l	88
65) Chlorobenzene	9.12	112	2823	0.38	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	86005	26.52	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	86005	61.38	ug/l #	100
83) tert-Butylbenzene	11.10	119	1978	0.21	ug/l	82
86) p-Isopropyltoluene	11.69	119	3234	0.31	ug/l	91
91) 1,2-Dichlorobenzene	11.89	146	1504	0.28	ug/l	90
95) Naphthalene	13.75	128	5108	1.14	ug/l	98

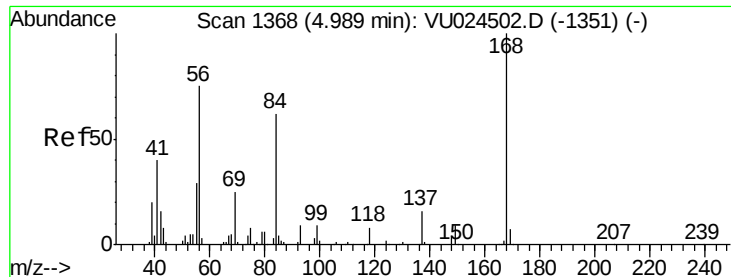
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

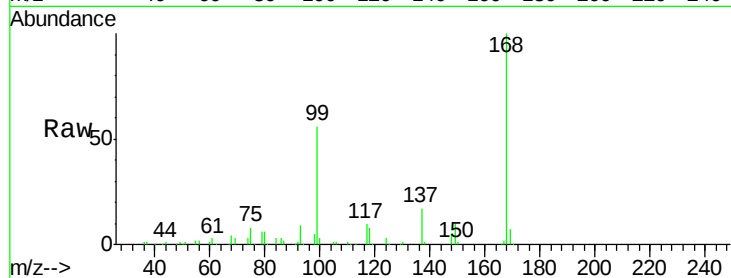
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 210655

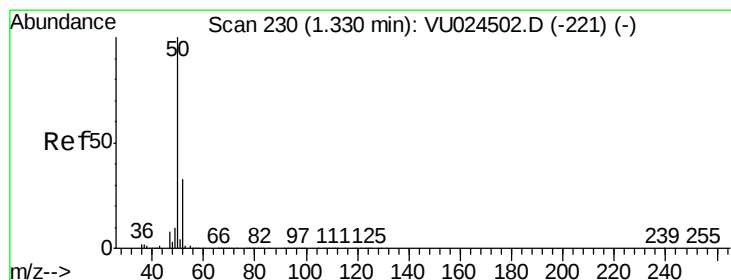
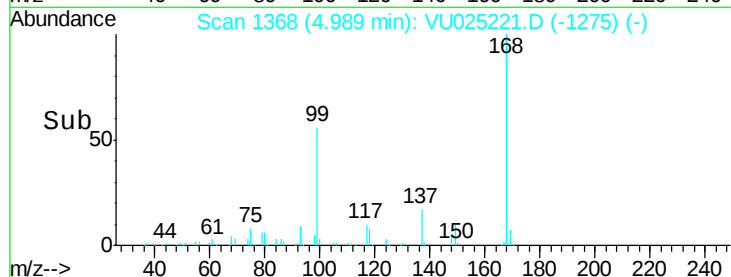
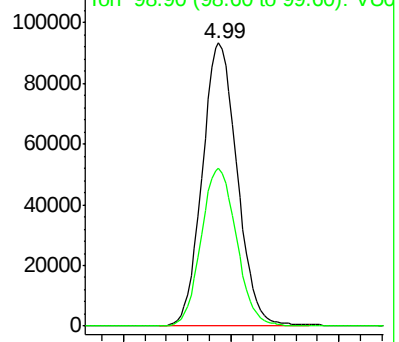
Ion Ratio Lower Upper

168 100

99 55.7 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.41 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025221.D

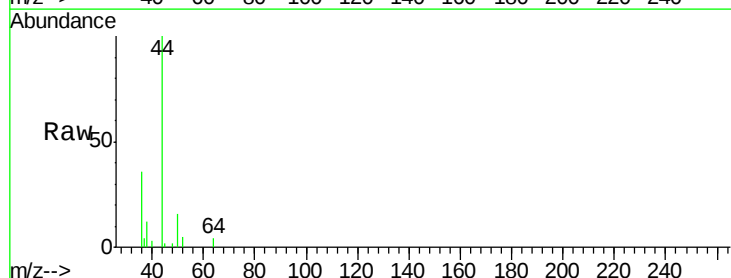
Acq: 05 Jul 2018 17:27

Tgt Ion: 50 Resp: 1110

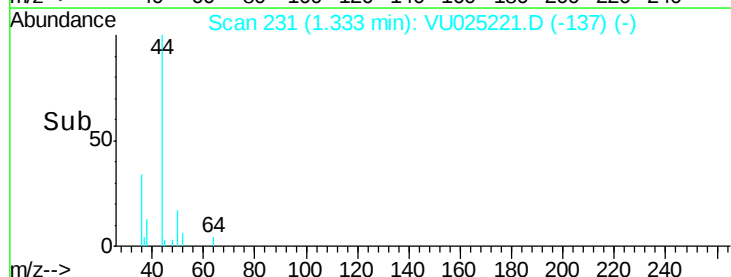
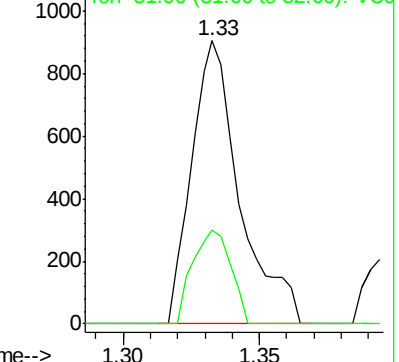
Ion Ratio Lower Upper

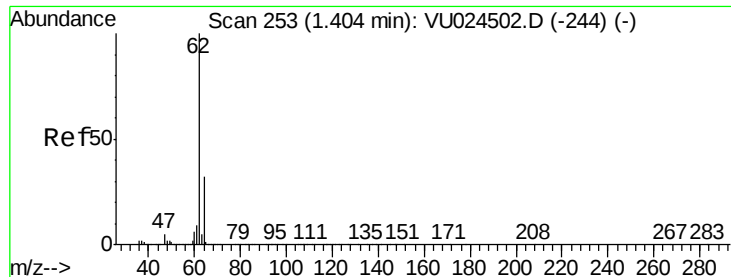
50 100

52 33.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)





#4

Vinyl Chloride

Concen: 8.42 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

Instrument :

MSVOA_U

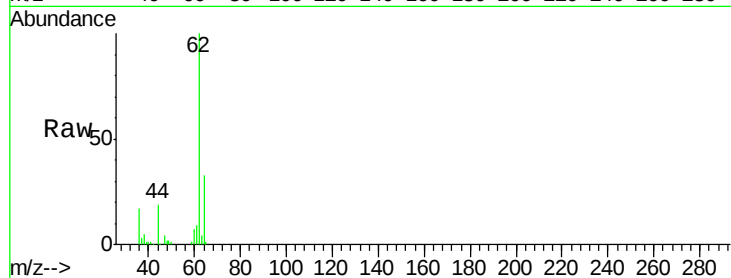
ClientSampleId :

Tot Ion: 62 Resp: 23390

Ion Ratio Lower Upper

62 100

64 31.6 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.41

25000

20000

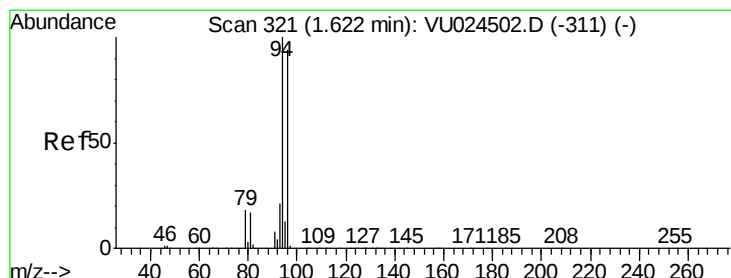
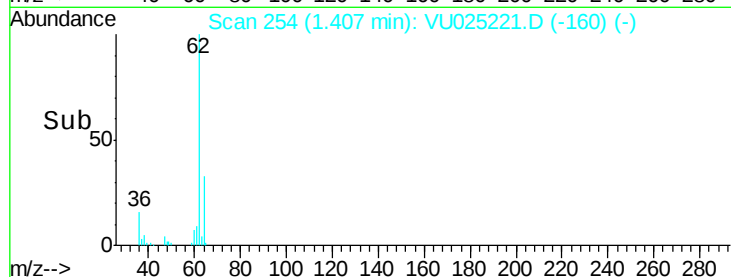
15000

10000

5000

0

Time--> 1.35 1.40 1.45



#5

Bromomethane

Concen: 0.43 ug/l

RT: 1.64 min Scan# 328

Delta R.T. 0.02 min

Lab File: VU025221.D

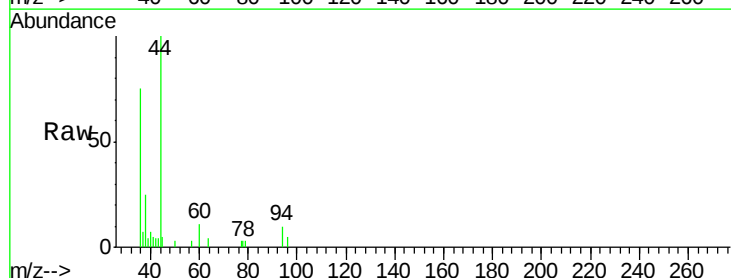
Acq: 05 Jul 2018 17:27

Tgt Ion: 94 Resp: 582

Ion Ratio Lower Upper

94 100

96 48.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.64

400

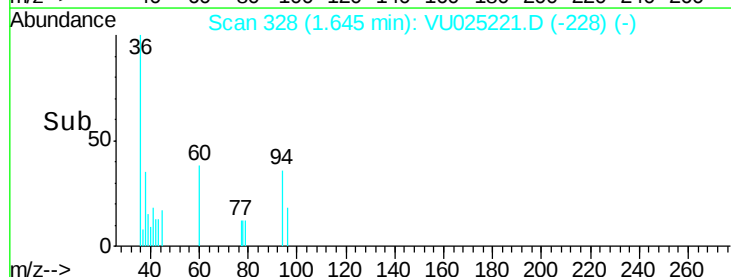
300

200

100

0

Time--> 1.60 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: Below Cal

RT: 1.79 min Scan# 374

Delta R.T. 0.10 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

Instrument :

MSVOA_U

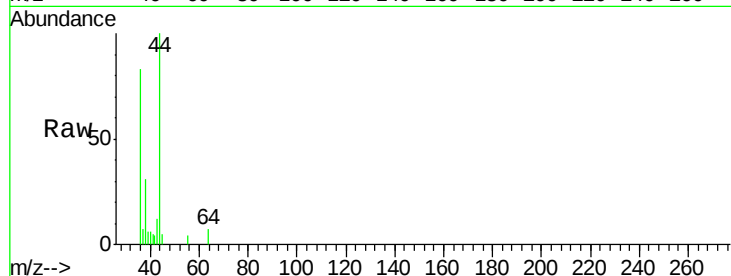
ClientSampleId :

Tot Ion: 64 Resp: 220

Ion Ratio Lower Upper

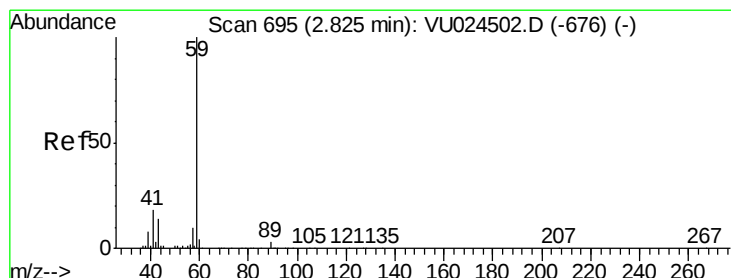
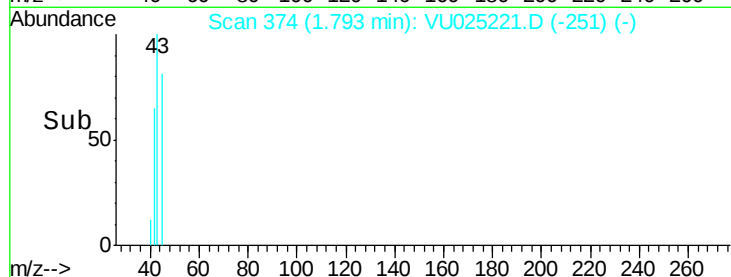
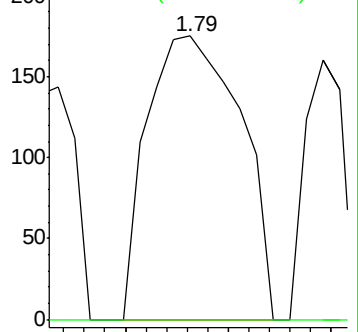
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#11

Tert butyl alcohol

Concen: 1.00 ug/l

RT: 2.84 min Scan# 701

Delta R.T. 0.02 min

Lab File: VU025221.D

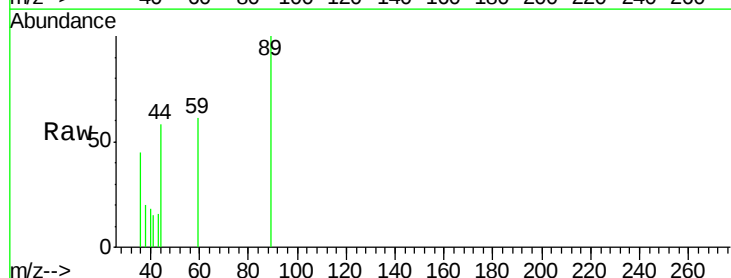
Acq: 05 Jul 2018 17:27

Tgt Ion: 59 Resp: 838

Ion Ratio Lower Upper

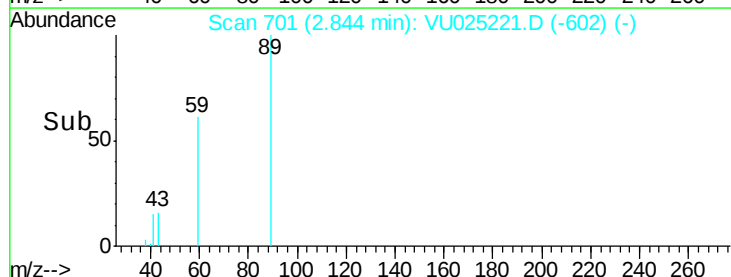
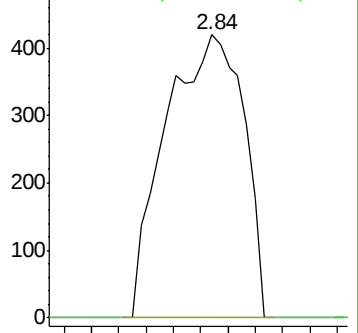
59 100

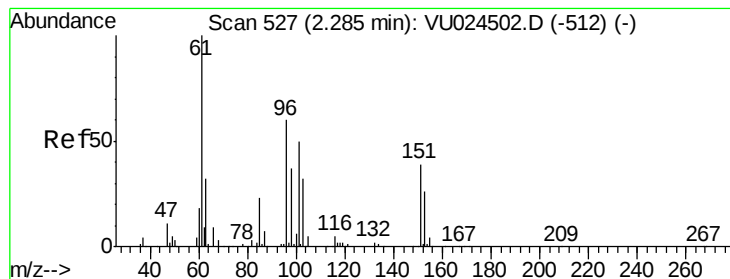
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 0.68 ug/l

RT: 2.28 min Scan# 526

Delta R.T. -0.00 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

Instrument :

MSVOA_U

ClientSampleId :

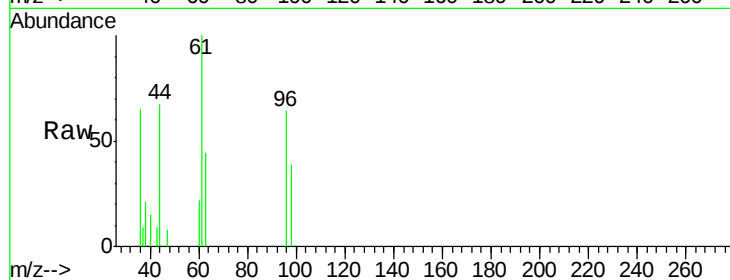
Tot Ion: 96 Resp: 1633

Ion Ratio Lower Upper

96 100

61 157.3 141.7 212.5

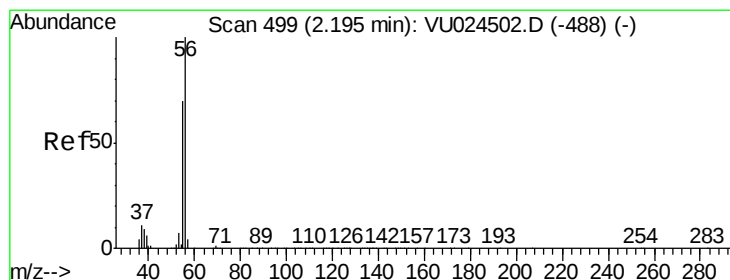
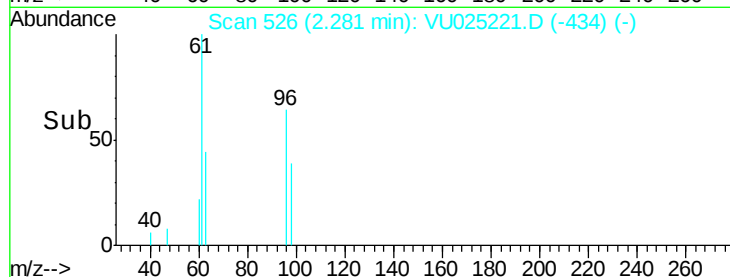
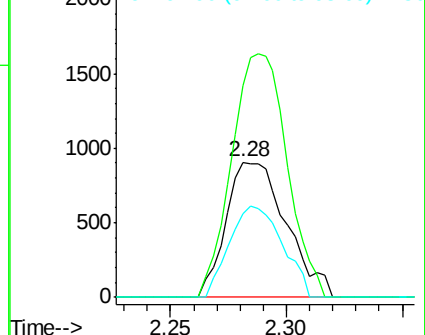
98 61.9 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#13

Acrolein

Concen: 0.39 ug/l

RT: 2.19 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU025221.D

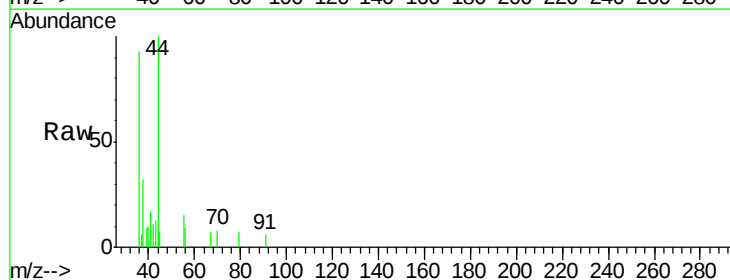
Acq: 05 Jul 2018 17:27

Tgt Ion: 56 Resp: 173

Ion Ratio Lower Upper

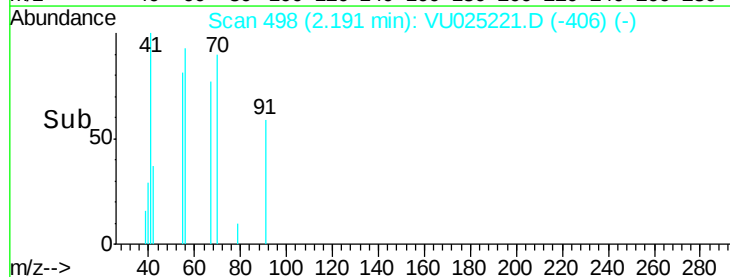
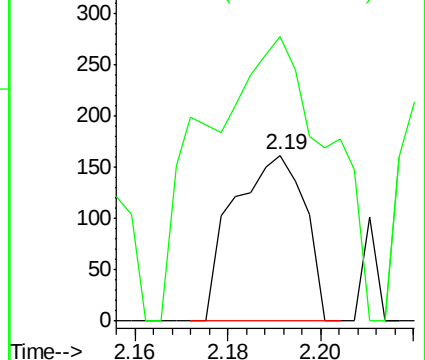
56 100

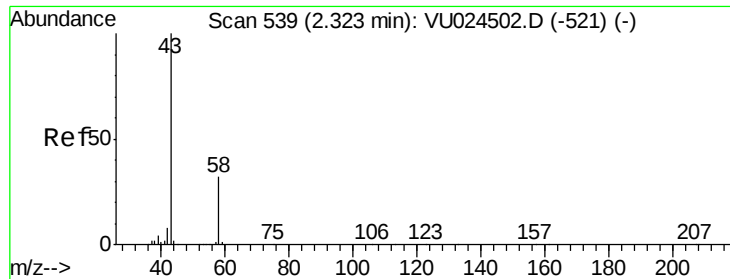
55 292.5 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0





#16

Acetone

Concen: 0.69 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

Instrument :

MSVOA_U

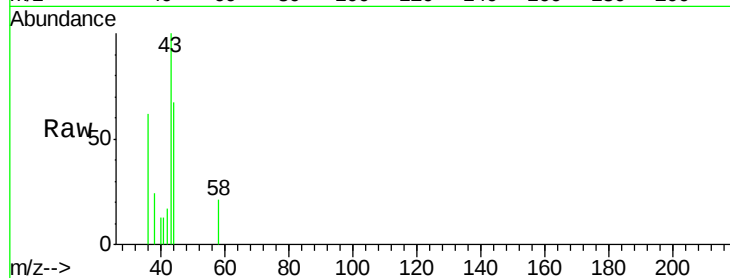
ClientSampleId :

Tot Ion: 43 Resp: 1277

Ion Ratio Lower Upper

43 100

58 24.0 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

1200

1000

800

600

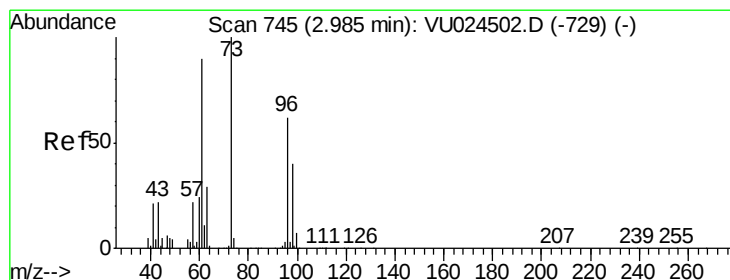
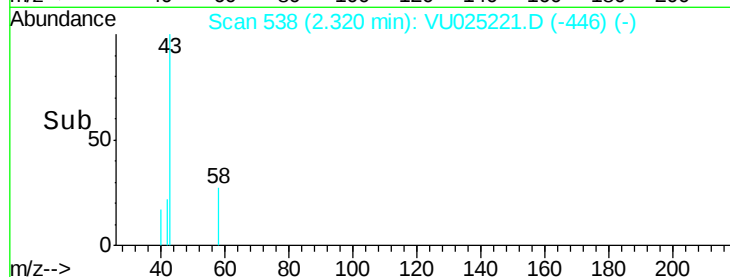
400

200

0

Time-->

2.30 2.35



#21

trans-1,2-Dichloroethene

Concen: 0.93 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

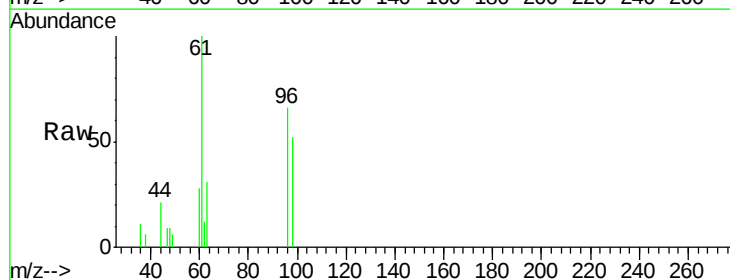
Tgt Ion: 96 Resp: 2466

Ion Ratio Lower Upper

96 100

61 151.6 119.4 179.0

98 79.0 51.1 76.7#



Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

2500

2000

1500

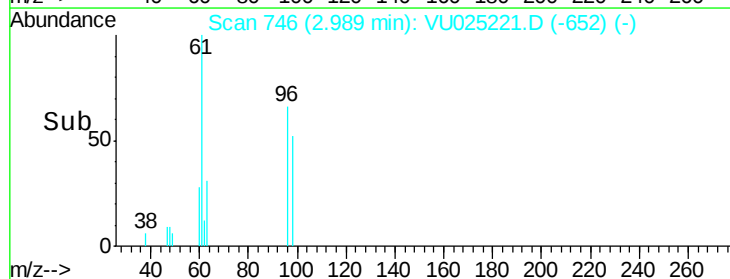
1000

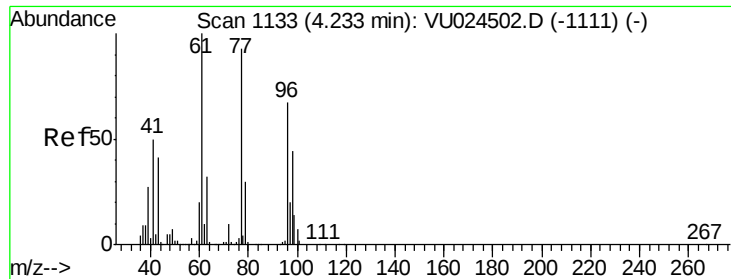
500

0

Time-->

2.95 3.00 3.05

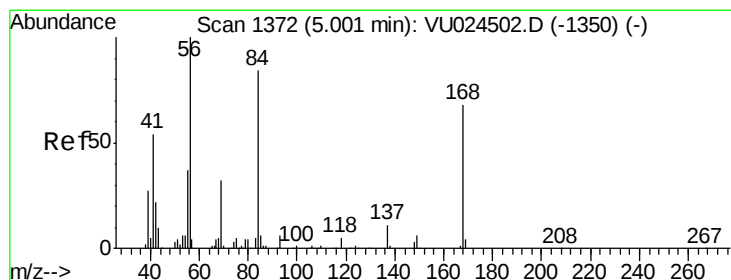
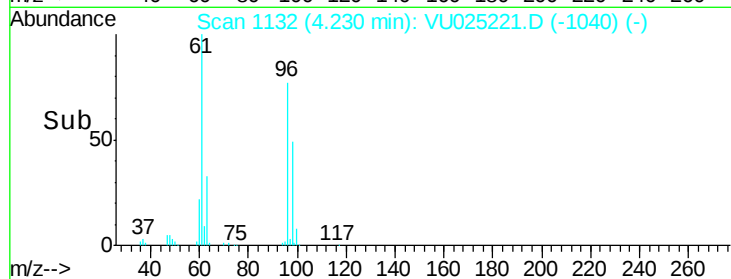
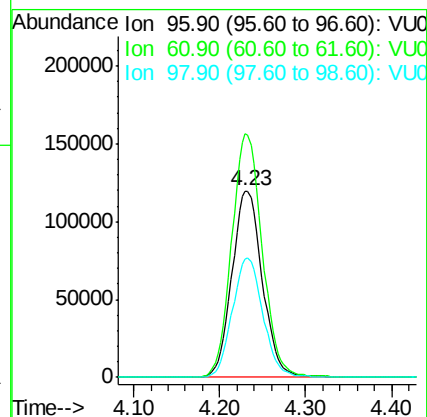
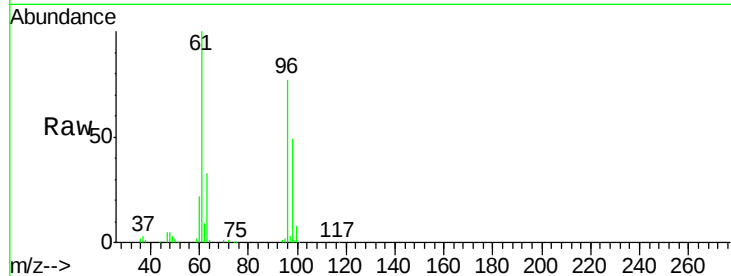




#27
 cis-1,2-Dichloroethene
 Concen: 97.00 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU025221.D
 Acq: 05 Jul 2018 17:27

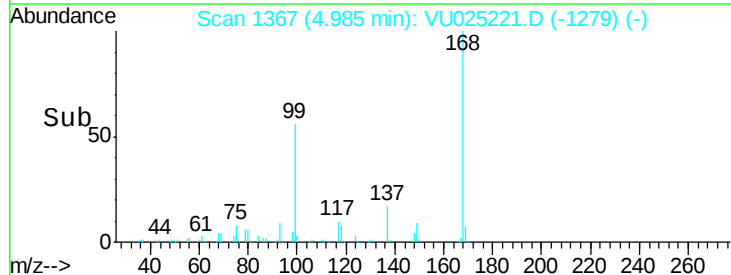
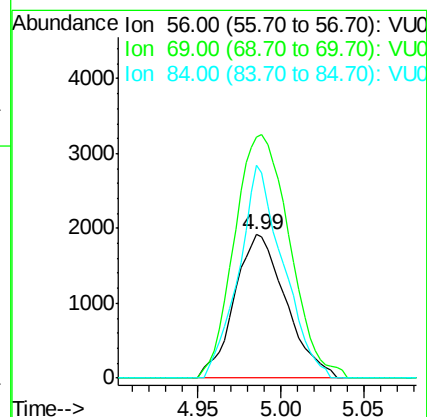
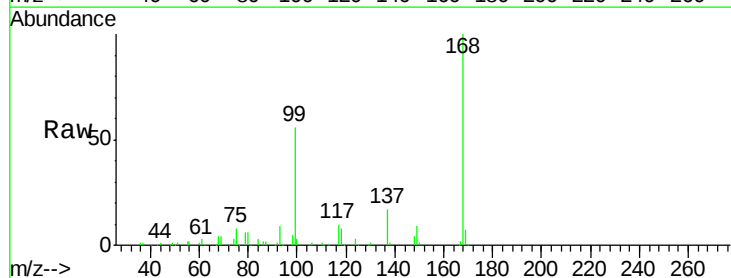
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.9	0.0	306.6
98	64.1	0.0	128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VU025221.D
 Acq: 05 Jul 2018 17:27

Tgt Ion	Ratio	Lower	Upper
56	100		
69	167.9	24.8	37.2#
84	148.0	65.2	97.8#





#33

1,2-Dichloroethane-d4

Concen: 45.61 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

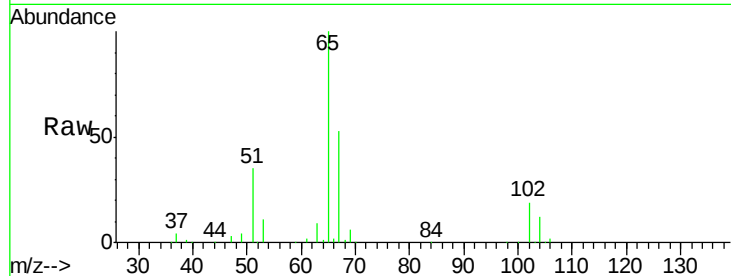
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 65 Resp: 156863

Ion Ratio Lower Upper

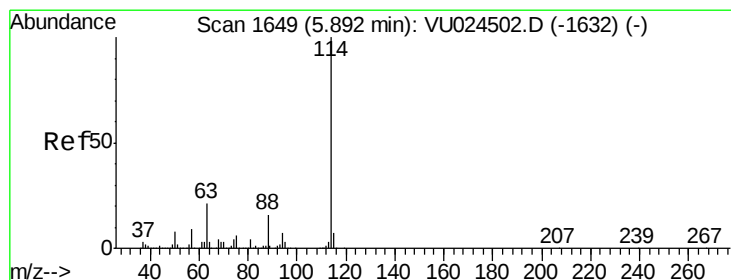
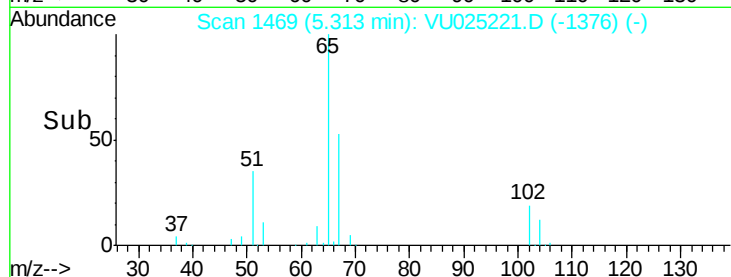
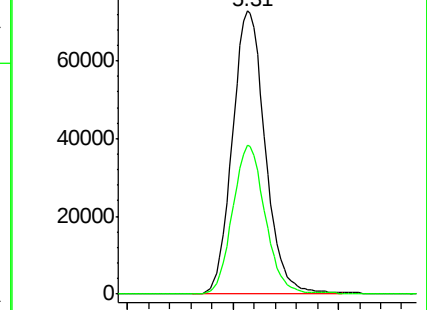
65 100

67 52.6 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU024502.D (-1451) (-)

Ion 66.90 (66.60 to 67.60): VU024502.D (-1451) (-)



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

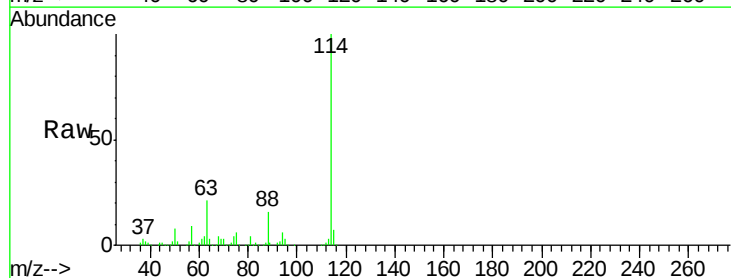
Tgt Ion: 114 Resp: 314511

Ion Ratio Lower Upper

114 100

63 20.9 0.0 45.4

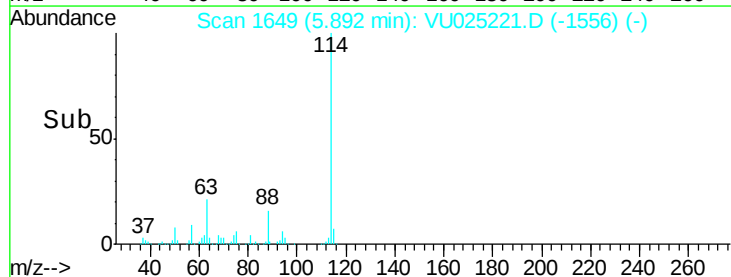
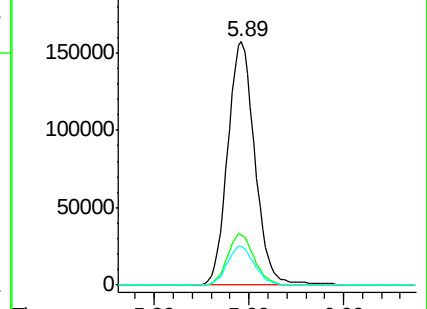
88 15.9 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VU024502.D (-1632) (-)

Ion 63.00 (62.70 to 63.70): VU024502.D (-1632) (-)

Ion 87.90 (87.60 to 88.60): VU024502.D (-1632) (-)





#35

Dibromofluoromethane

Concen: 48.10 ug/l

RT: 4.89 min Scan# 1337

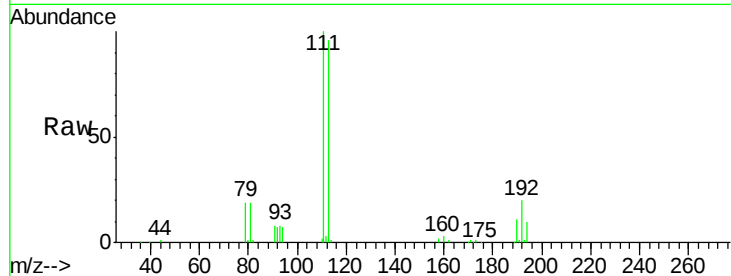
Delta R.T. 0.00 min

Lab File: VU025221.D

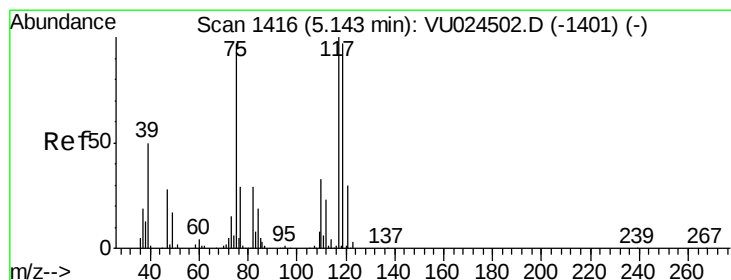
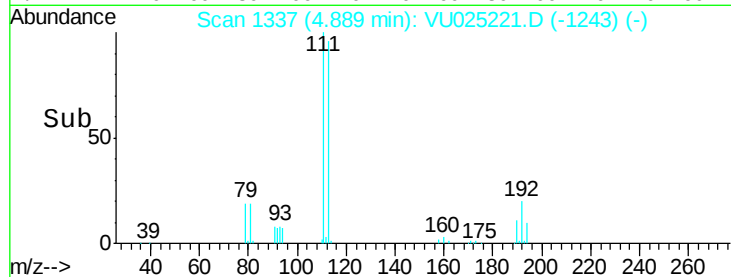
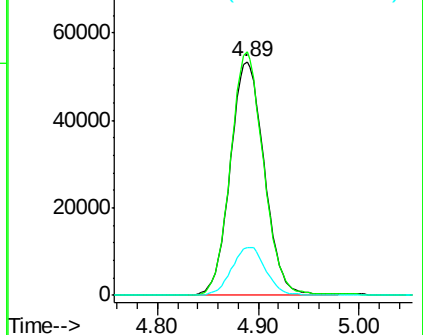
Acq: 05 Jul 2018 17:27

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	113	Resp:	125560
Ion	Ratio	Lower	Upper
113	100		
111	100.5	82.2	123.4
192	20.4	16.2	24.4



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: 4.31 ug/l

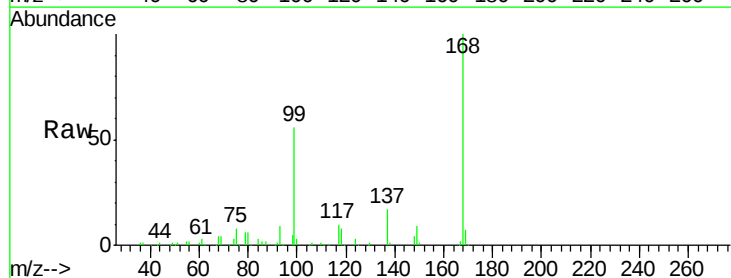
RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

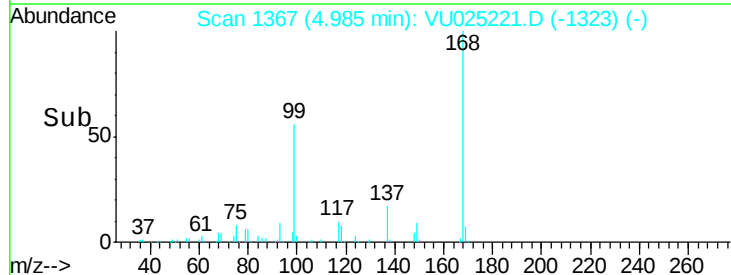
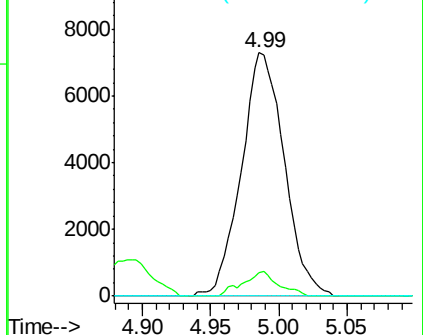
Lab File: VU025221.D

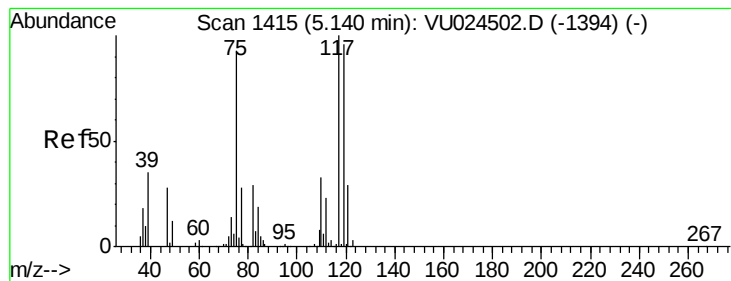
Acq: 05 Jul 2018 17:27

Tgt Ion:	75	Resp:	15918
Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.0	50.9#
77	0.0	24.2	36.4#



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: 4.83 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

Instrument :
MSVOA_U
ClientSampleId :

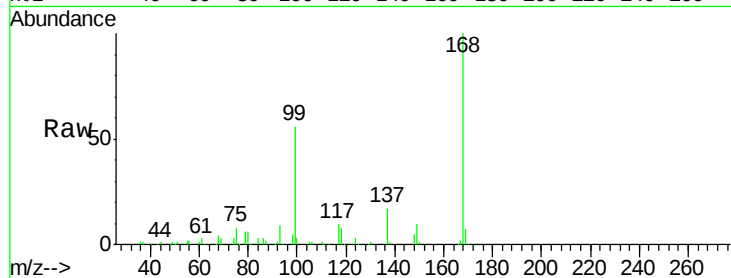
Tot Ion:117 Resp: 19624

Ion Ratio Lower Upper

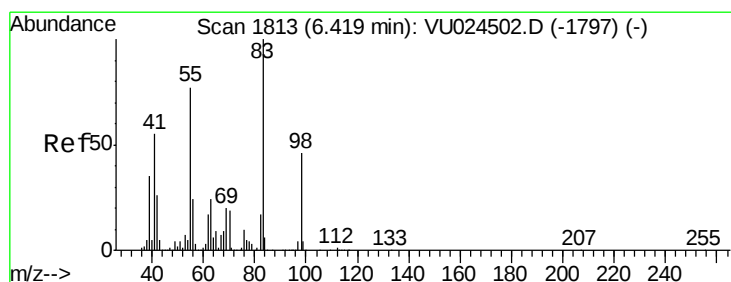
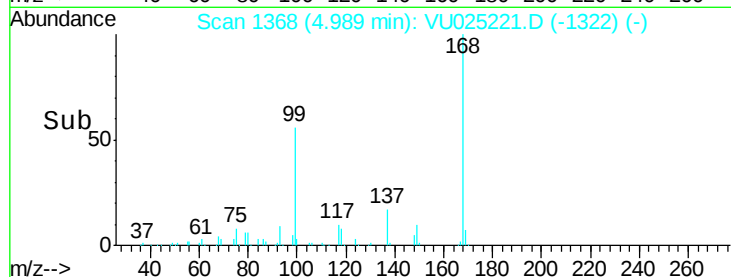
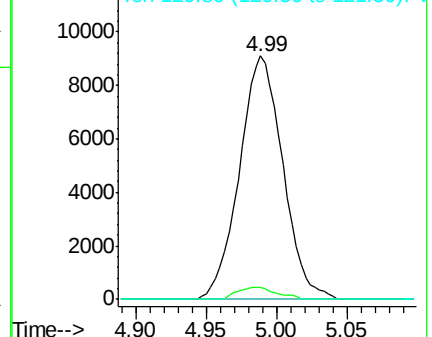
117 100

119 4.9 76.1 114.1#

121 0.0 23.7 35.5#



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



#39

Methylcyclohexane

Concen: 0.56 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. -0.23 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

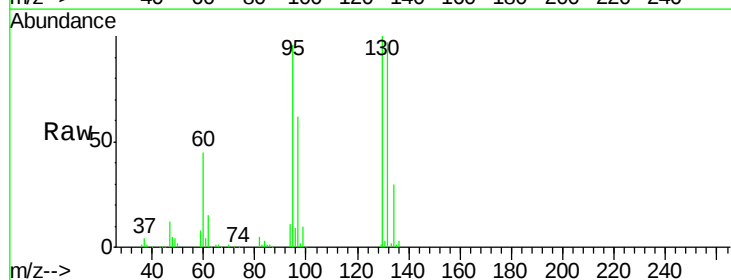
Tgt Ion: 83 Resp: 2598

Ion Ratio Lower Upper

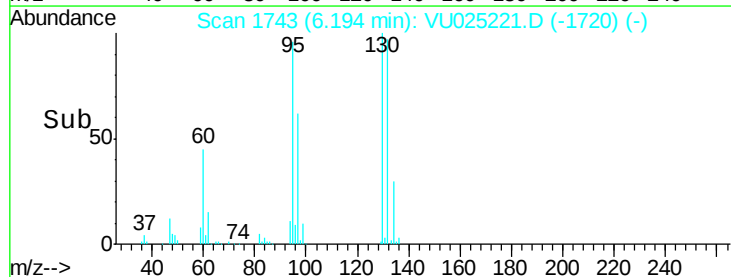
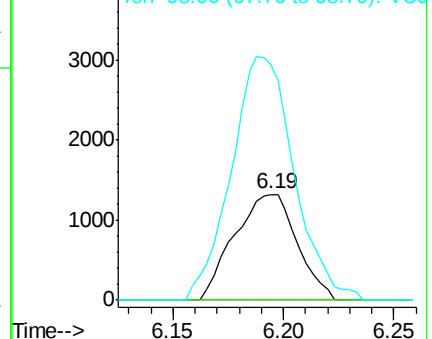
83 100

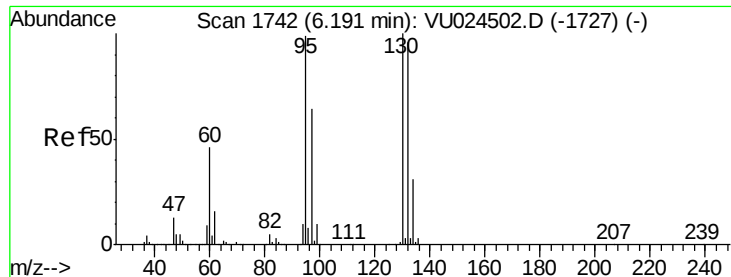
55 0.0 65.8 98.6#

98 213.3 36.7 55.1#



Abundance Ion 83.00 (82.70 to 83.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 98.00 (97.70 to 98.70): VU0





#44

Trichloroethene

Concen: 81.13 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

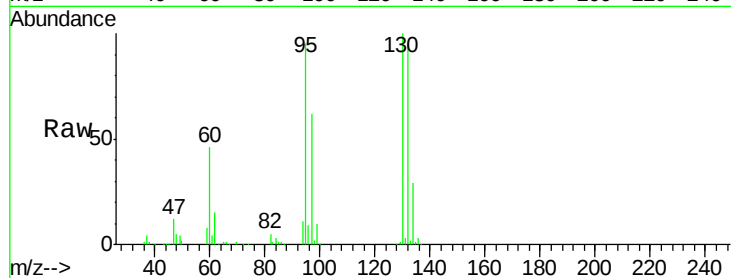
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:130 Resp: 243138

Ion Ratio Lower Upper

130 100

95 94.9 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU025221.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU025221.D (-1649) (-)

6.19

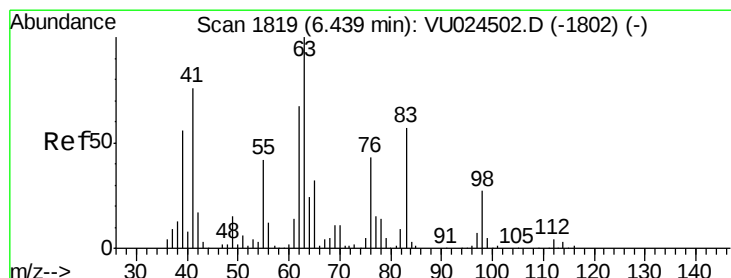
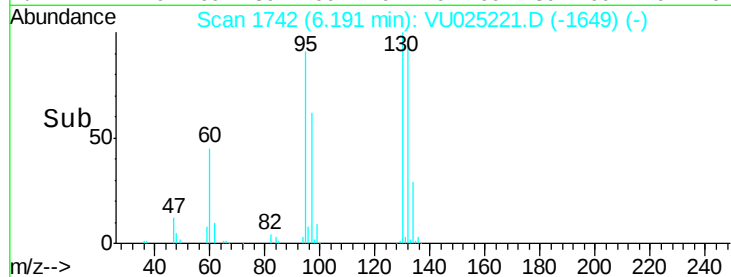
150000

100000

50000

0

Time-->



#45

1,2-Dichloropropane

Concen: 0.28 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.25 min

Lab File: VU025221.D

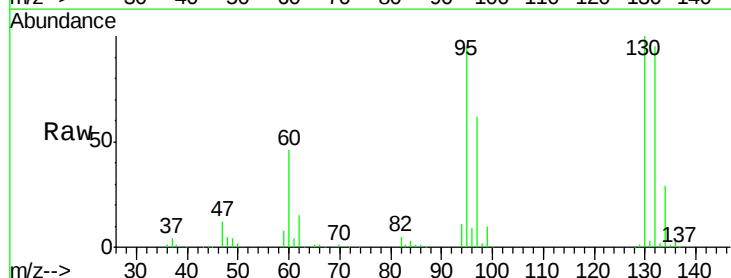
Acq: 05 Jul 2018 17:27

Tgt Ion: 63 Resp: 795

Ion Ratio Lower Upper

63 100

65 400.7 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VU025221.D (-1726) (-)

Ion 64.90 (64.60 to 65.60): VU025221.D (-1726) (-)

6.19

2000

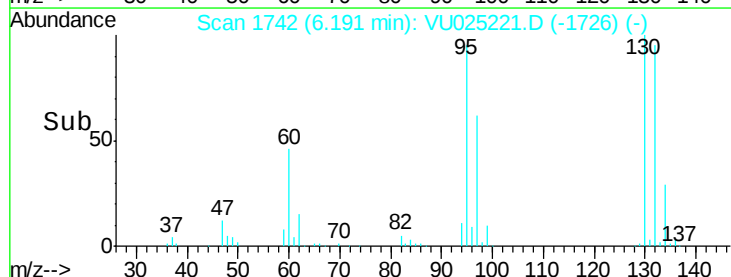
1500

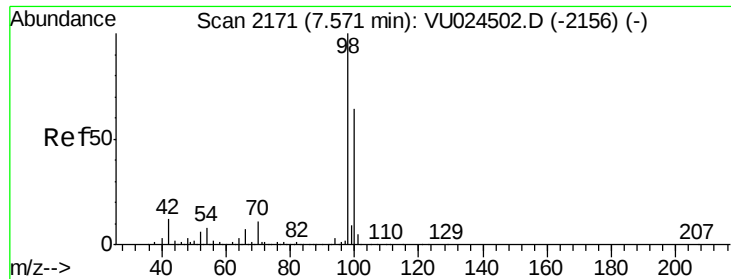
1000

500

0

Time-->

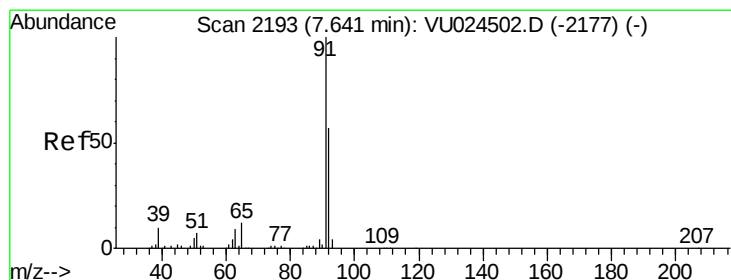
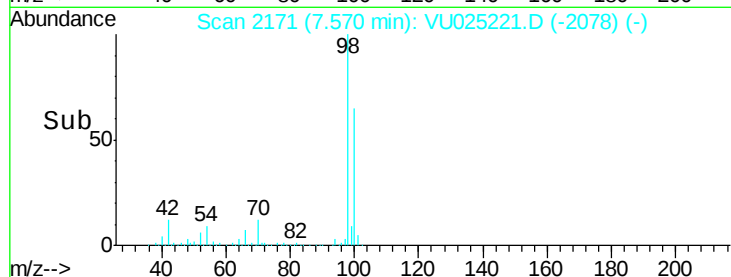
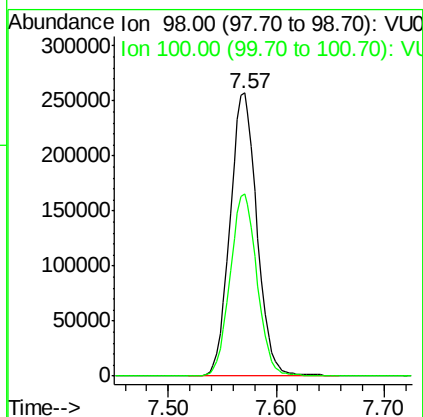
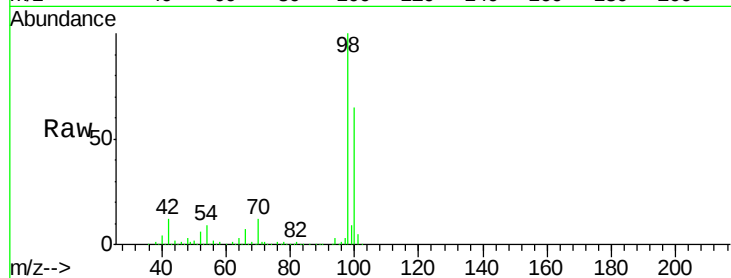




#50
Toluene-d8
Concen: 47.18 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU025221.D
Acq: 05 Jul 2018 17:27

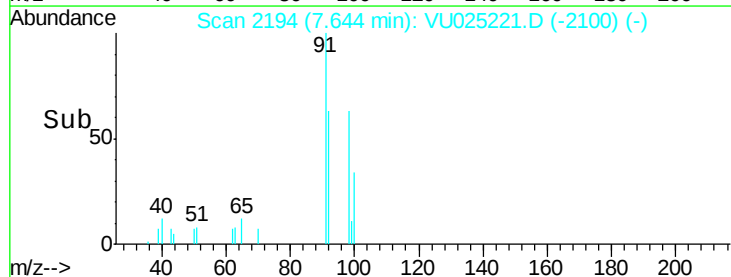
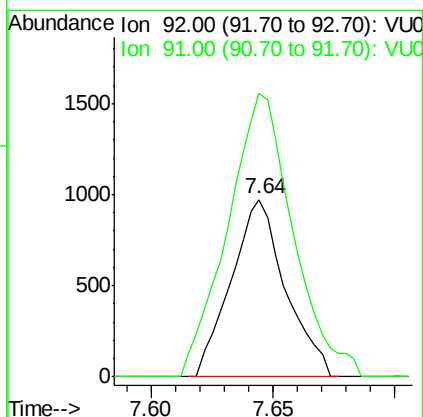
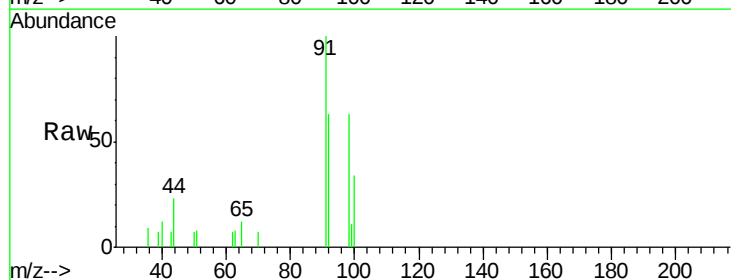
Instrument :
MSVOA_U
ClientSampleId :

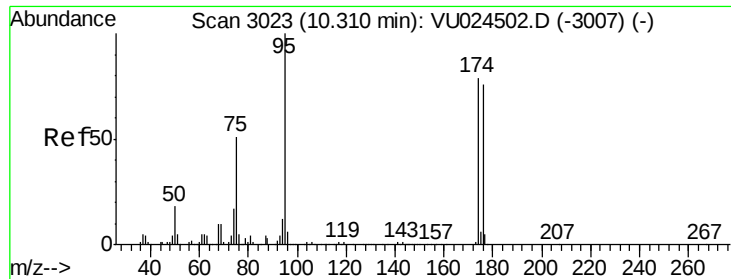
Tot Ion: 98 Resp: 449245
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7



#52
Toluene
Concen: 0.22 ug/l
RT: 7.64 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU025221.D
Acq: 05 Jul 2018 17:27

Tgt Ion: 92 Resp: 1501
Ion Ratio Lower Upper
92 100
91 192.4 140.5 210.7

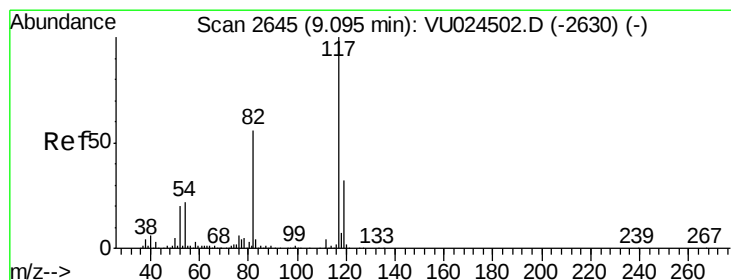
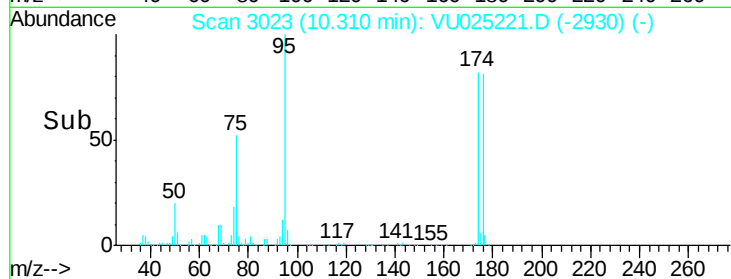
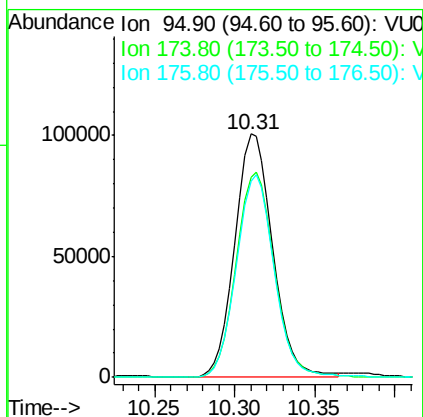
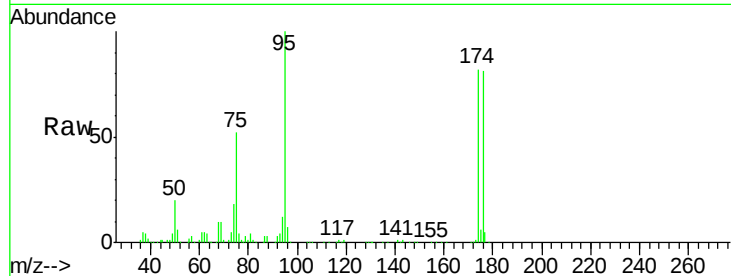




#62
4-Bromofluorobenzene
Concen: 43.01 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU025221.D
Acq: 05 Jul 2018 17:27

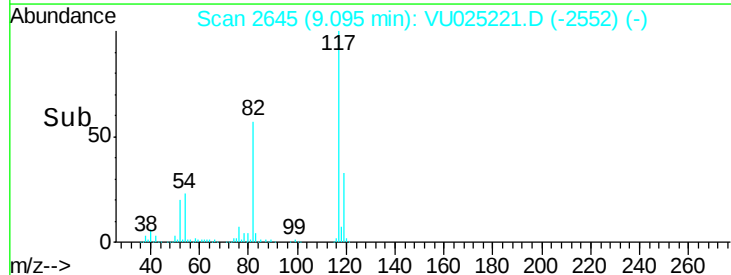
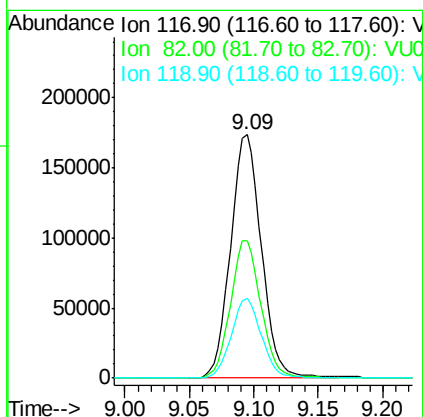
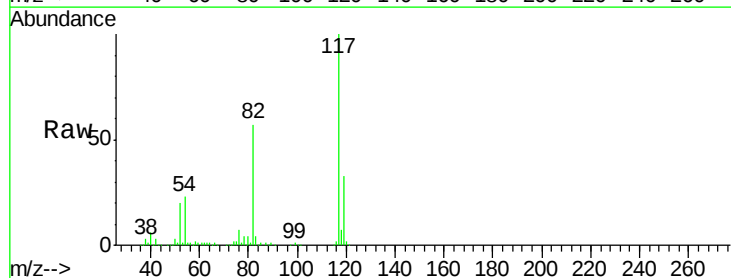
Instrument :
MSVOA_U
ClientSampled :

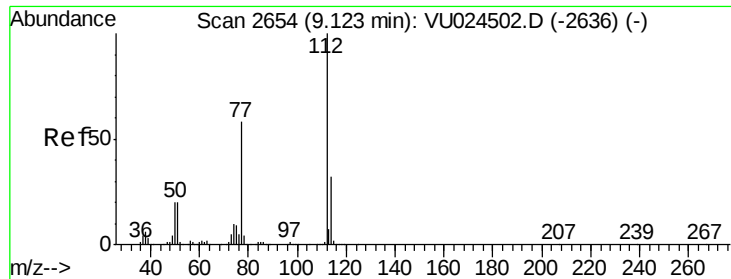
Tot Ion	95	Resp	162592
Ion Ratio	Lower	Upper	
95	100		
174	85.3	0.0	165.8
176	83.3	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025221.D
Acq: 05 Jul 2018 17:27

Tgt Ion	117	Resp	288102
Ion Ratio	Lower	Upper	
117	100		
82	56.7	44.3	66.5
119	32.6	25.4	38.2

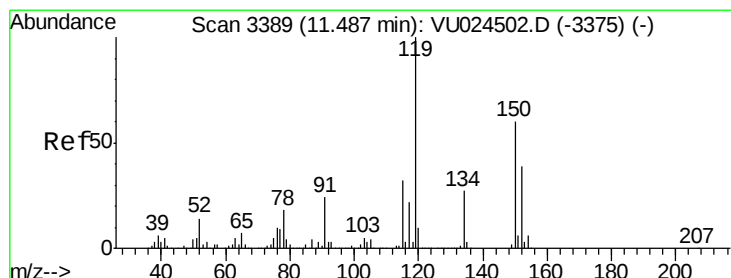
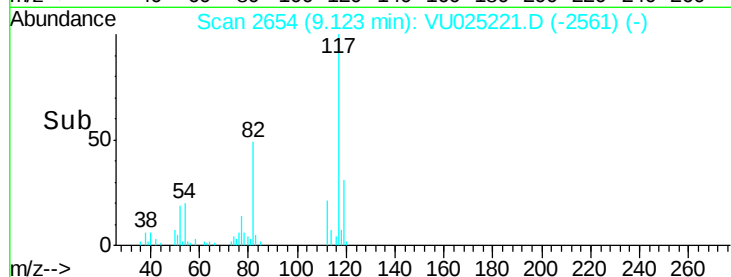
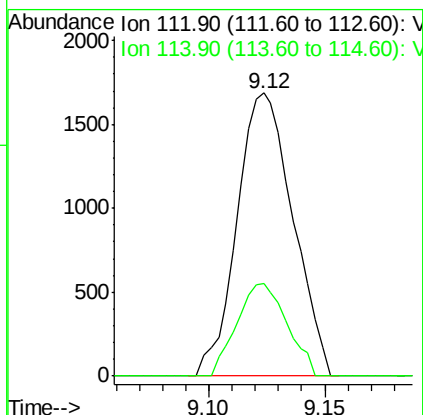
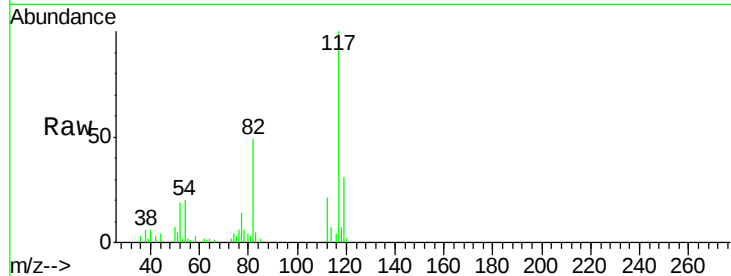




#65
Chlorobenzene
Concen: 0.38 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. -0.00 min
Lab File: VU025221.D
Acq: 05 Jul 2018 17:27

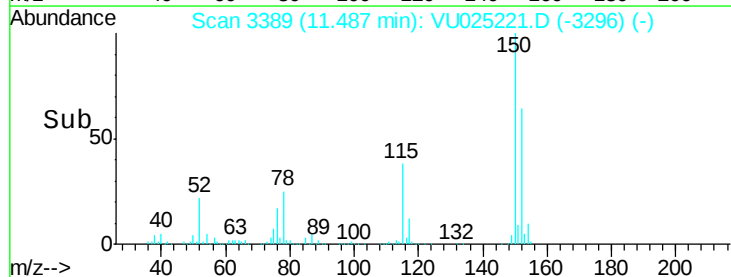
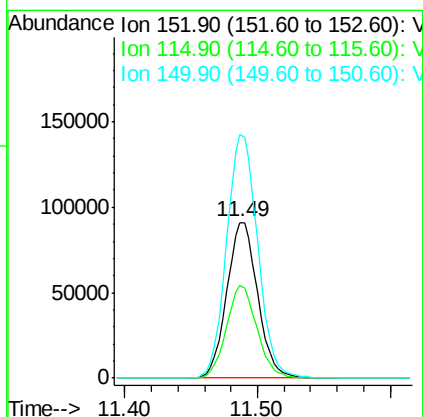
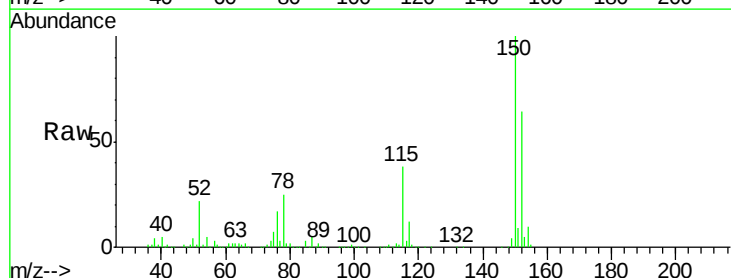
Instrument :
MSVOA_U
ClientSampleId :

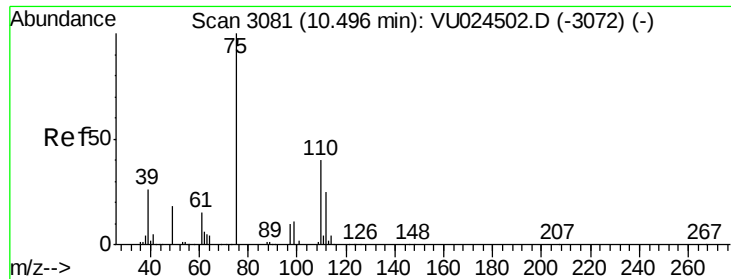
Tot Ion:112 Resp: 2823
Ion Ratio Lower Upper
112 100
114 32.5 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025221.D
Acq: 05 Jul 2018 17:27

Tgt Ion:152 Resp: 147299
Ion Ratio Lower Upper
152 100
115 58.7 43.0 129.0
150 158.0 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 26.52 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

Instrument :

MSVOA_U

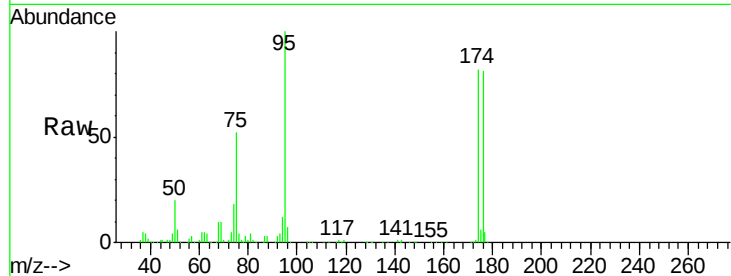
ClientSampleId :

Tot Ion: 75 Resp: 86005

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.31

60000

50000

40000

30000

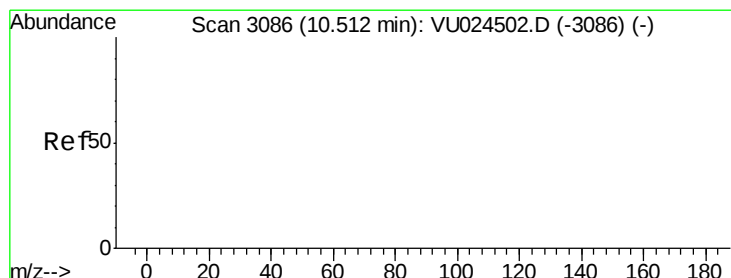
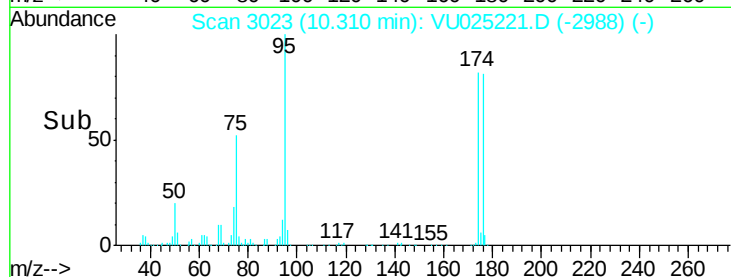
20000

10000

0

Time-->

10.30 10.40



#81

trans-1,4-Dichloro-2-butene

Concen: 61.38 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

Tgt Ion: 75 Resp: 86005

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

10.31

60000

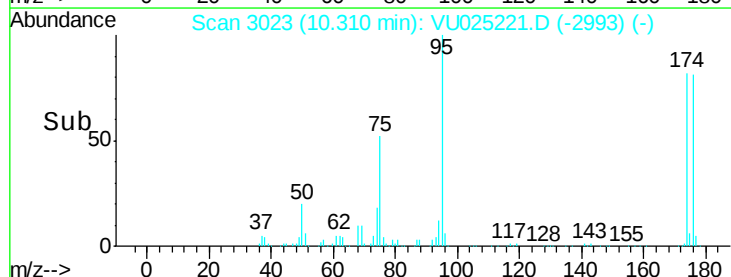
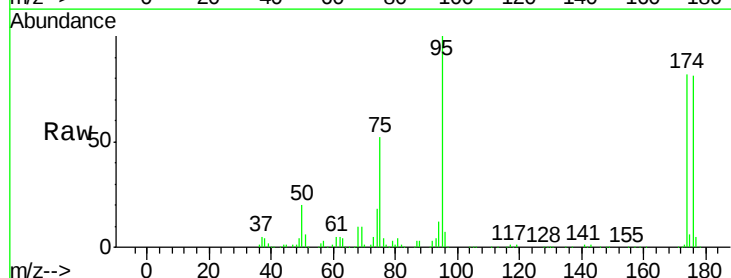
40000

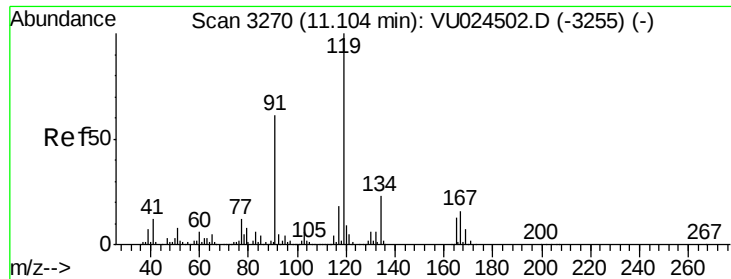
20000

0

Time-->

10.30 10.40

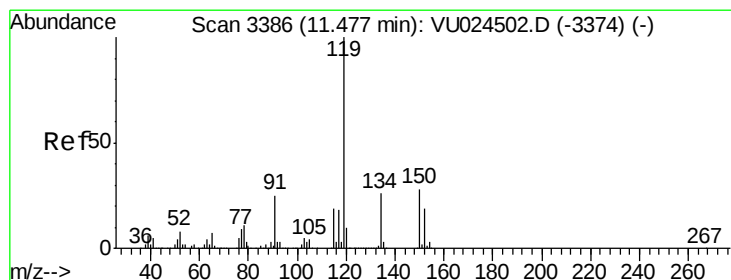
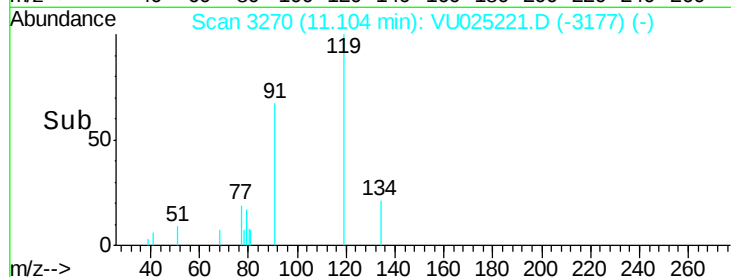
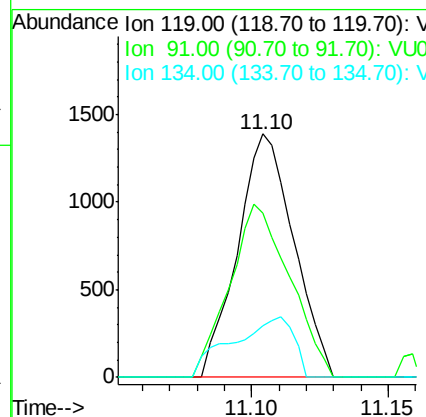
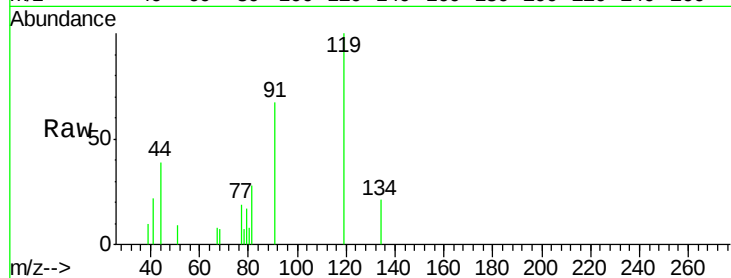




#83
tert-Butylbenzene
Concen: 0.21 ug/l
RT: 11.10 min Scan# 3270
Delta R.T. -0.00 min
Lab File: VU025221.D
Acq: 05 Jul 2018 17:27

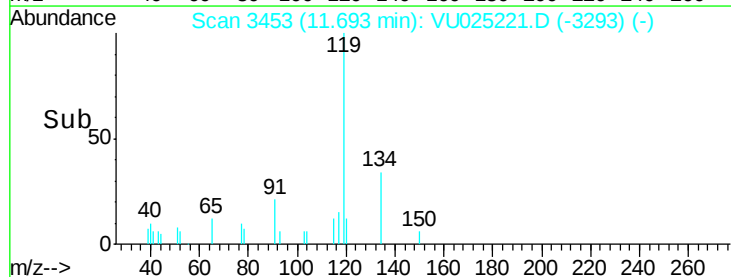
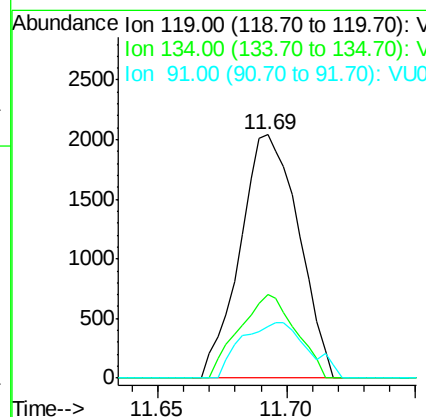
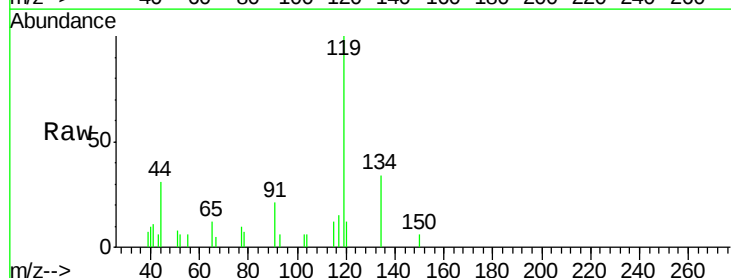
Instrument :
MSVOA_U
ClientSampleId :

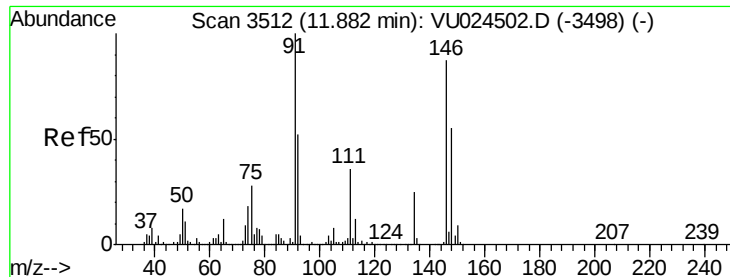
Tot Ion:119 Resp: 1978
Ion Ratio Lower Upper
119 100
91 76.1 29.7 89.1
134 26.9 11.6 34.7



#86
p-Isopropyltoluene
Concen: 0.31 ug/l
RT: 11.69 min Scan# 3453
Delta R.T. 0.22 min
Lab File: VU025221.D
Acq: 05 Jul 2018 17:27

Tgt Ion:119 Resp: 3234
Ion Ratio Lower Upper
119 100
134 33.1 12.9 38.6
91 25.8 12.0 36.1





#91

1,2-Dichlorobenzene

Concen: 0.28 ug/l

RT: 11.89 min Scan# 3515

Delta R.T. 0.01 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

Instrument :

MSVOA_U

ClientSampleId :

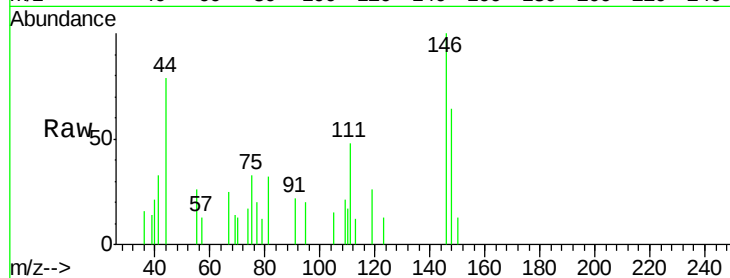
Tot Ion:146 Resp: 1504

Ion Ratio Lower Upper

146 100

111 45.7 20.5 61.6

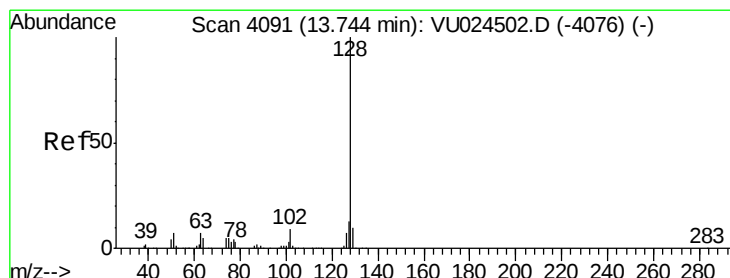
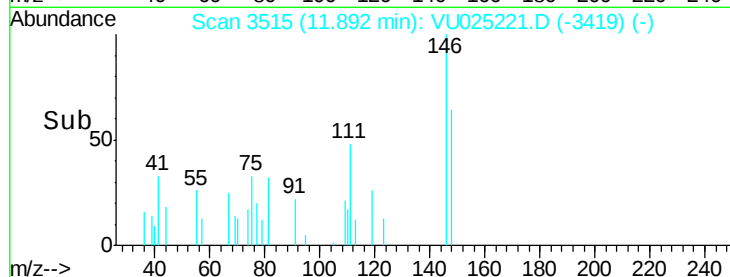
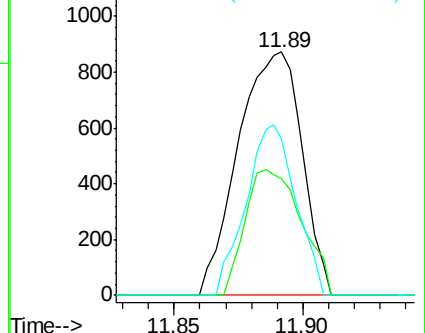
148 54.7 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 1.14 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU025221.D

Acq: 05 Jul 2018 17:27

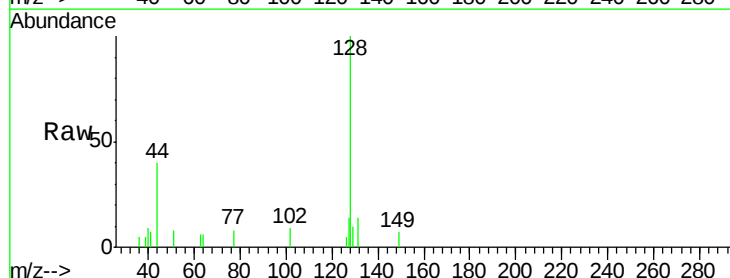
Tgt Ion:128 Resp: 5108

Ion Ratio Lower Upper

128 100

127 12.1 10.6 16.0

129 10.5 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

