

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025143.D
 Acq On : 02 Jul 2018 15:11
 Operator : MD/SY
 Sample : J3759-17DL 5X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0475-180626DL

Quant Time: Jul 03 02:59:37 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	206667	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	308068	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	284916	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	148267	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	156471	46.38	ug/l	0.00
Spiked Amount			Recovery	=	92.76%	
35) Dibromofluoromethane	4.89	113	121450	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
50) Toluene-d8	7.57	98	442849	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
62) 4-Bromofluorobenzene	10.31	95	163108	44.05	ug/l	0.00
Spiked Amount			Recovery	=	88.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	711	0.269	ug/l	98
4) Vinyl Chloride	1.40	62	129229	47.415	ug/l	97
5) Bromomethane	1.62	94	264	0.200	ug/l #	3
10) Methyl Iodide	2.42	142	45	5.307	ug/l #	22
11) Tert butyl alcohol	2.83	59	2520	3.071	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	1407	0.598	ug/l	91
16) Acetone	2.32	43	1764	0.973	ug/l #	87
20) Methylene Chloride	2.71	84	575	0.202	ug/l #	75
24) 1,1-Dichloroethane	3.46	63	1555	0.312	ug/l #	83
27) cis-1,2-Dichloroethene	4.23	96	87285	29.293	ug/l	88
29) Tetrahydrofuran	4.65	42	539	0.357	ug/l #	61
31) Cyclohexane	4.99	56	4027	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15585	4.305	ug/l #	52
38) Carbon Tetrachloride	4.99	117	20319	5.104	ug/l #	16
40) Benzene	5.40	78	3891	0.377	ug/l	98
44) Trichloroethene	6.19	130	6932	2.361	ug/l	94
51) 4-Methyl-2-Pentanone	7.57	43	2102	0.491	ug/l #	1
65) Chlorobenzene	9.12	112	128034	17.591	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	86754	26.577	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	86754	61.509	ug/l #	100
83) tert-Butylbenzene	11.10	119	3006	0.317	ug/l	80
91) 1,2-Dichlorobenzene	11.89	146	3392	0.636	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025143.D

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ClientSampleId :

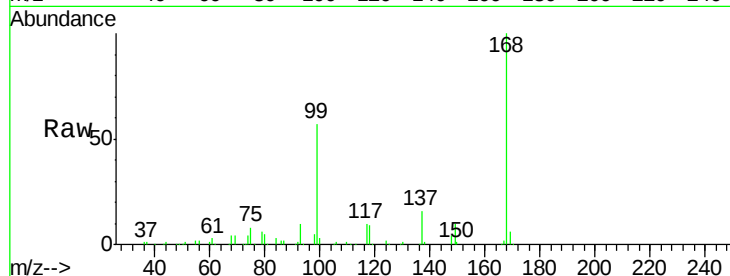
DUP-0475-180626DL

Tot Ion:168 Resp: 206667

Ion Ratio Lower Upper

168 100

99 56.6 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025143.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU025143.D (-1275) (-)

4.99

100000

80000

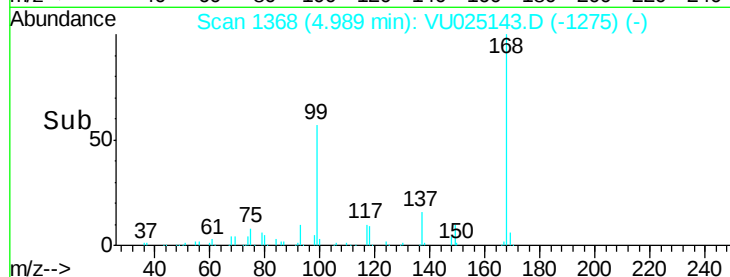
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.269 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025143.D

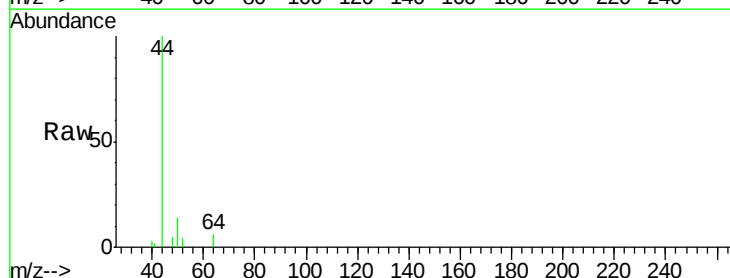
Acq: 02 Jul 2018 15:11

Tgt Ion: 50 Resp: 711

Ion Ratio Lower Upper

50 100

52 31.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU025143.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU025143.D (-137) (-)

1.33

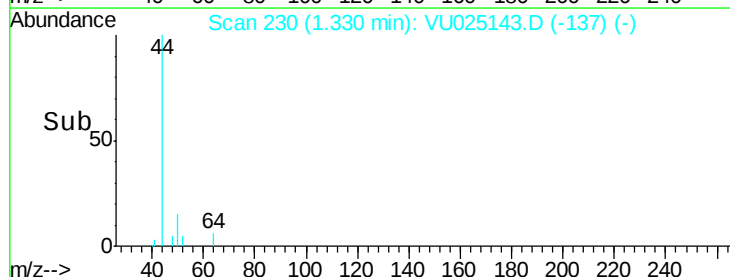
600

400

200

0

Time-->





#4

Vinyl Chloride

Concen: 47.415 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

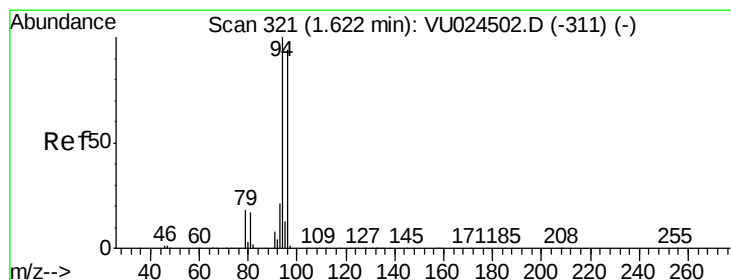
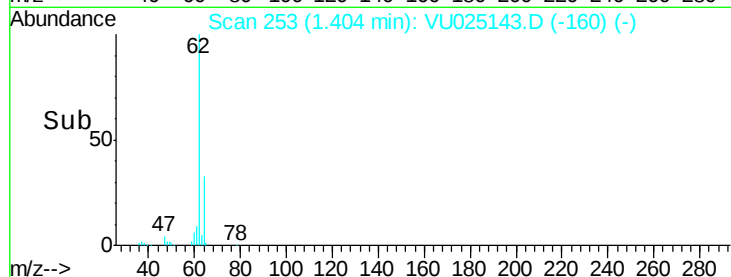
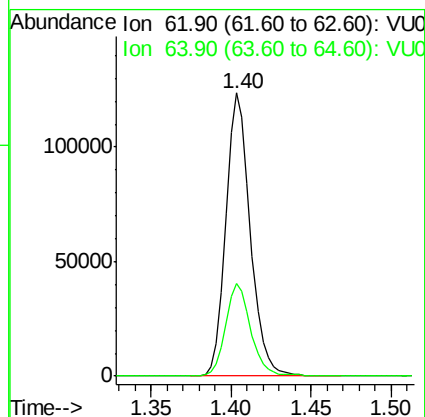
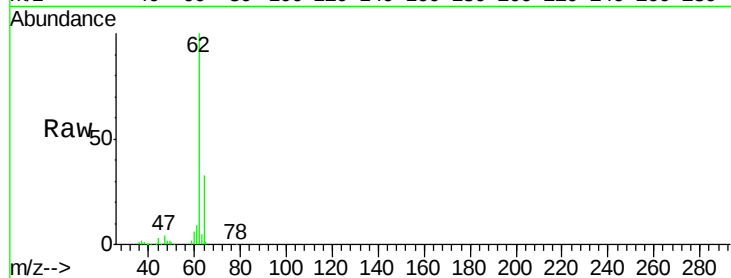
DUP-0475-180626DL

Tot Ion: 62 Resp: 129229

Ion Ratio Lower Upper

62 100

64 32.7 24.8 37.2



#5

Bromomethane

Concen: 0.200 ug/l

RT: 1.62 min Scan# 321

Delta R.T. 0.00 min

Lab File: VU025143.D

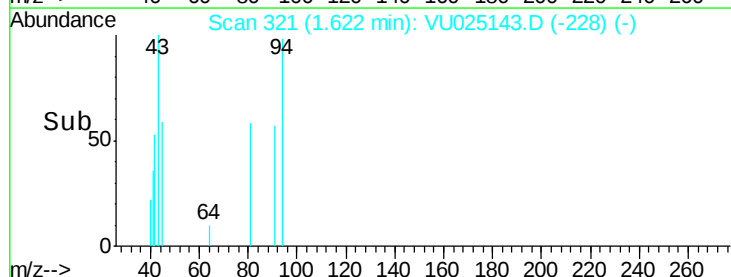
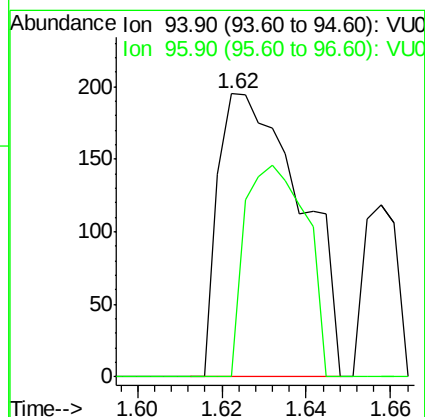
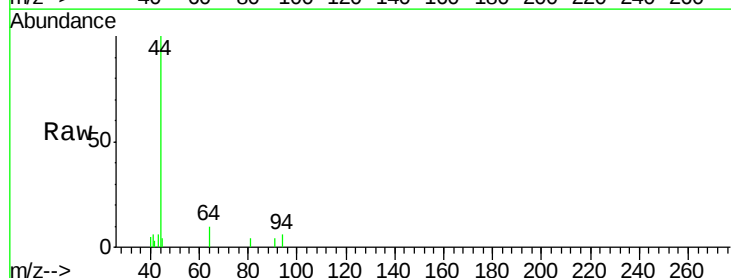
Acq: 02 Jul 2018 15:11

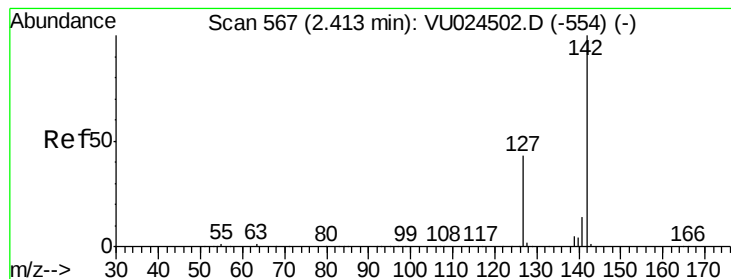
Tgt Ion: 94 Resp: 264

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#





#10

Methvl Iodide

Concen: 5.307 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

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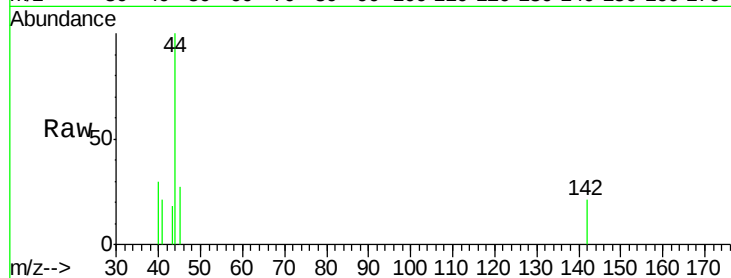
Tot Ion:142 Resp: 45

Ion Ratio Lower Upper

142 100

127 104.4 35.6 53.4#

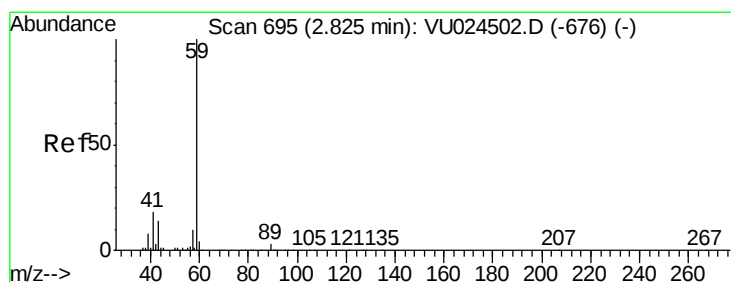
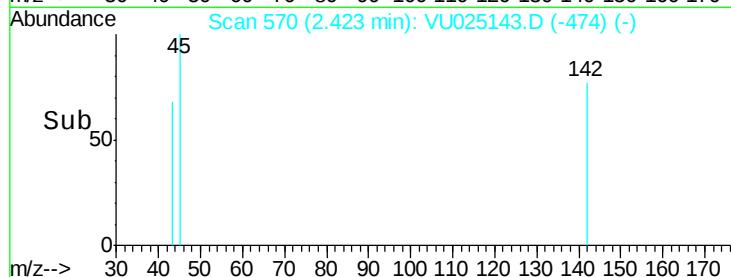
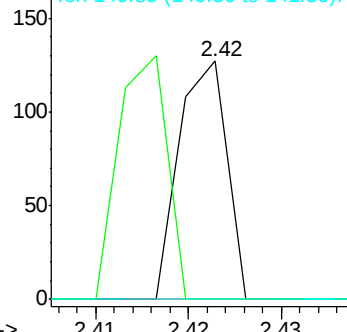
141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 3.071 ug/l

RT: 2.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VU025143.D

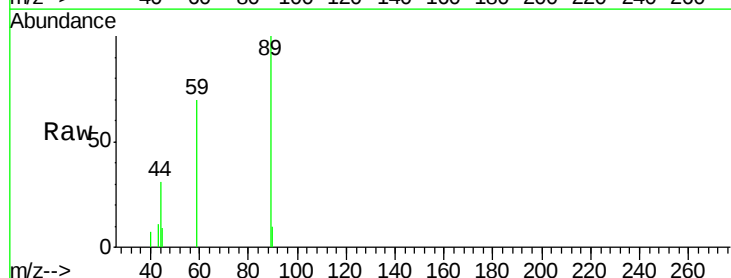
Acq: 02 Jul 2018 15:11

Tgt Ion: 59 Resp: 2520

Ion Ratio Lower Upper

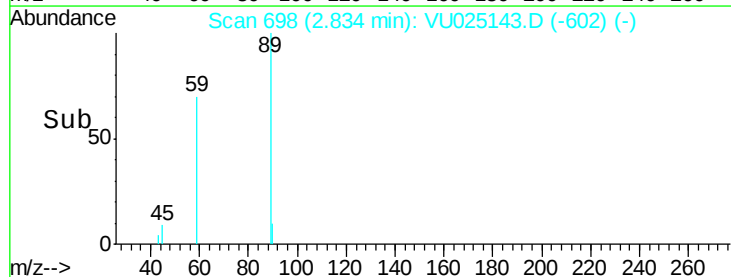
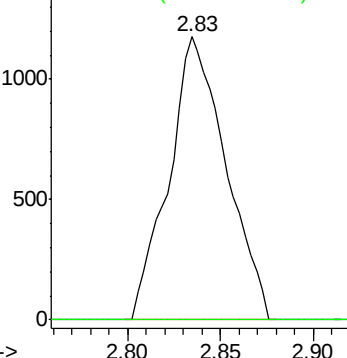
59 100

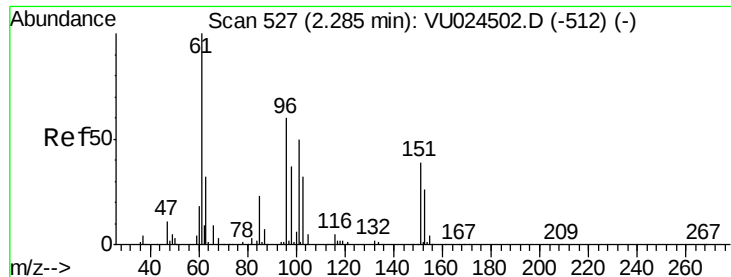
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 0.598 ug/l

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

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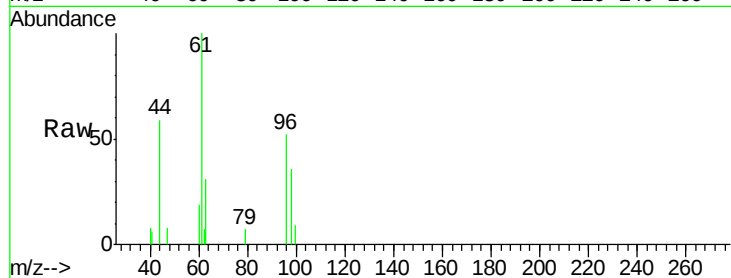
Tot Ion: 96 Resp: 1407

Ion Ratio Lower Upper

96 100

61 191.0 141.7 212.5

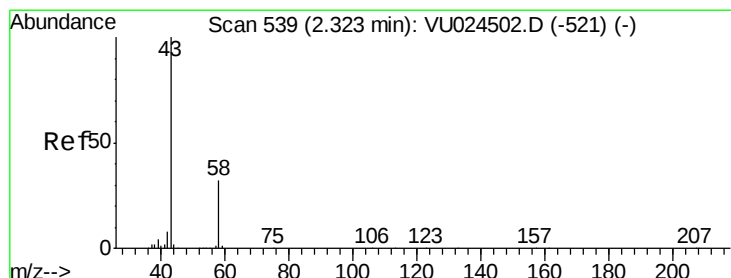
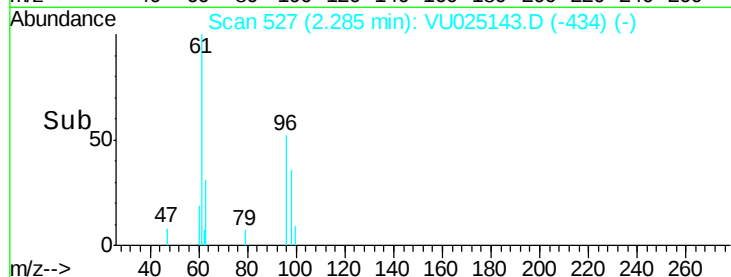
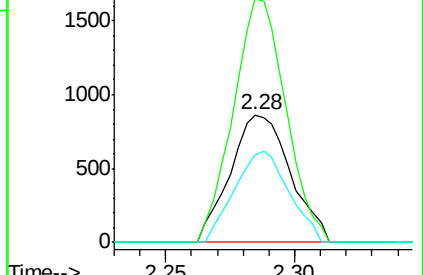
98 68.6 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VU025143.D (-434) (-)

Ion 60.90 (60.60 to 61.60): VU025143.D (-434) (-)

Ion 97.90 (97.60 to 98.60): VU025143.D (-434) (-)



#16

Acetone

Concen: 0.973 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU025143.D

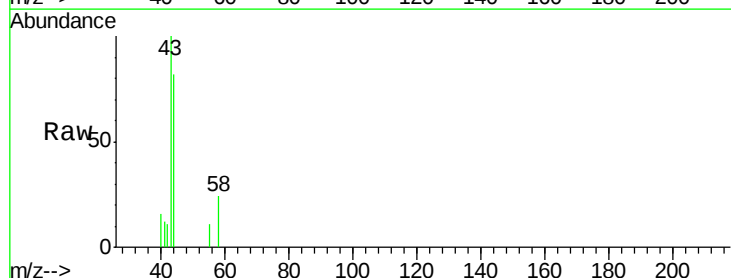
Acq: 02 Jul 2018 15:11

Tgt Ion: 43 Resp: 1764

Ion Ratio Lower Upper

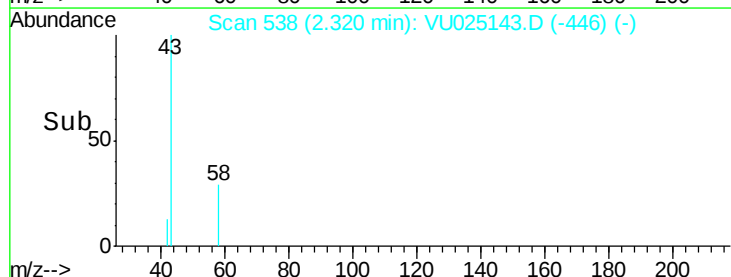
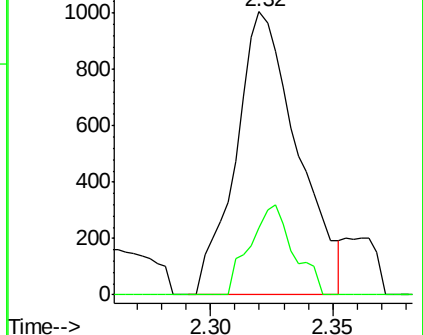
43 100

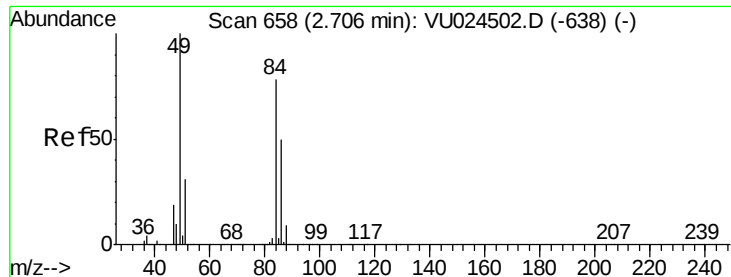
58 23.6 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU025143.D (-446) (-)

Ion 58.00 (57.70 to 58.70): VU025143.D (-446) (-)





#20

Methylene Chloride

Concen: 0.202 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

DUP-0475-180626DL

Tot Ion: 84 Resp: 575

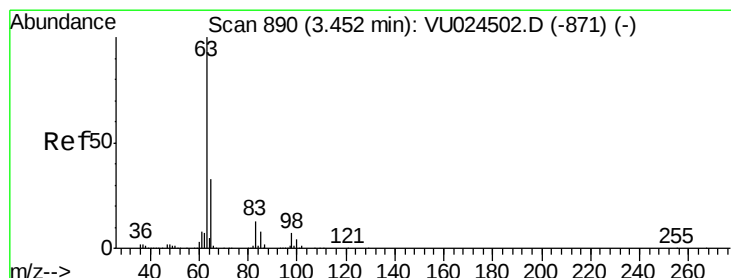
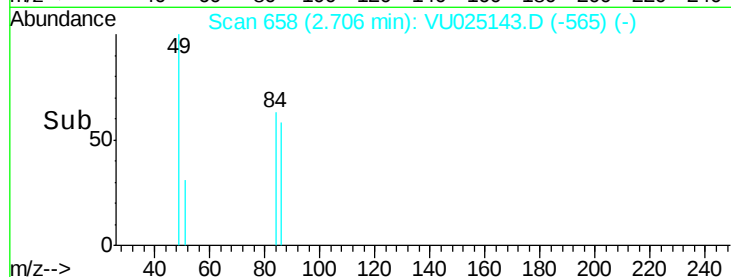
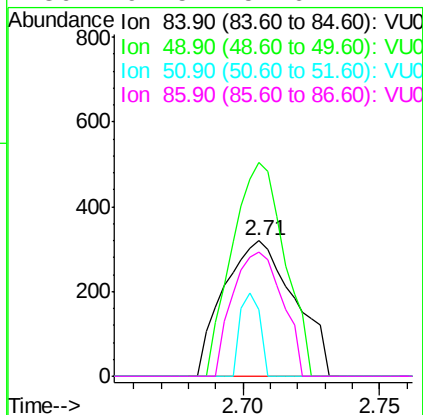
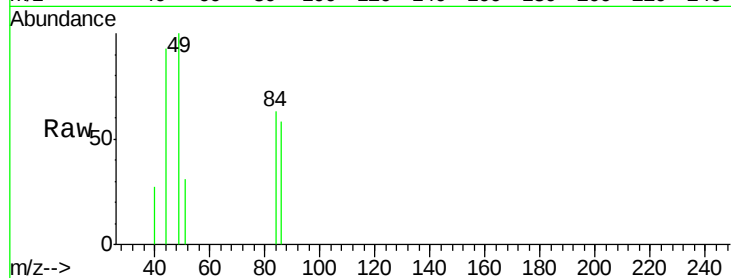
Ion Ratio Lower Upper

84 100

49 158.0 103.8 155.8#

51 49.2 32.0 48.0#

86 91.5 51.6 77.4#



#24

1,1-Dichloroethane

Concen: 0.312 ug/l

RT: 3.46 min Scan# 892

Delta R.T. 0.01 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

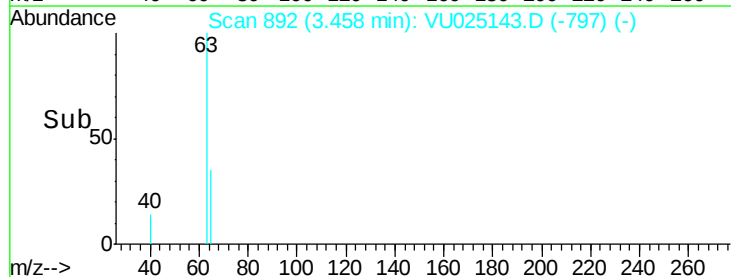
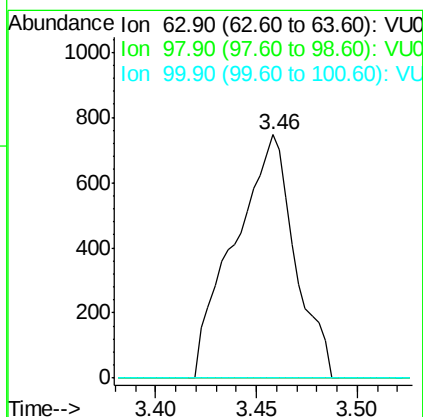
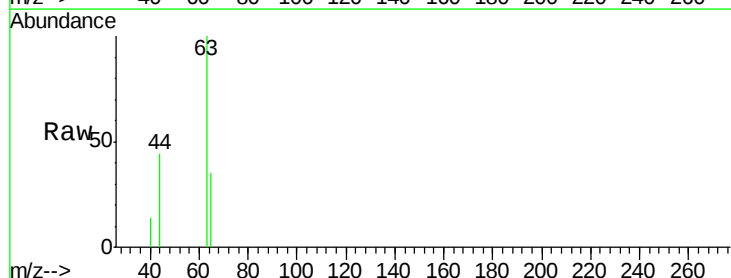
Tgt Ion: 63 Resp: 1555

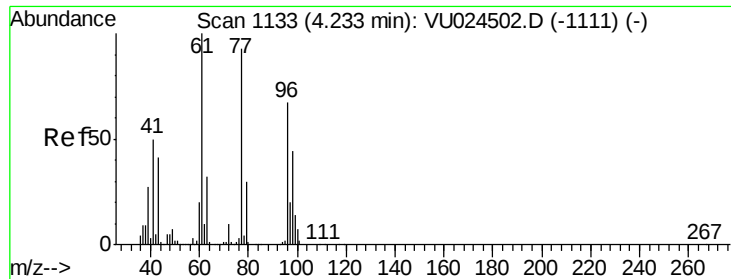
Ion Ratio Lower Upper

63 100

98 0.0 3.5 10.4#

100 0.0 1.8 5.5#

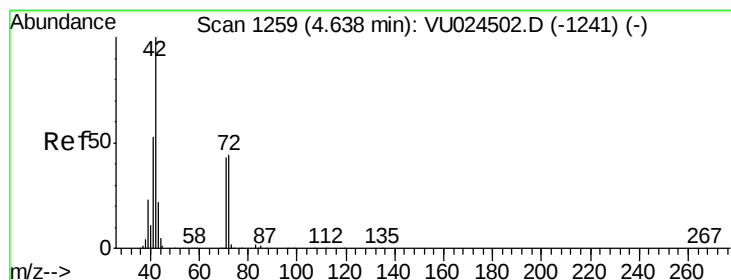
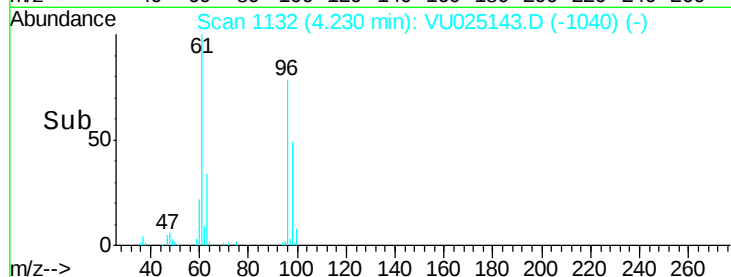
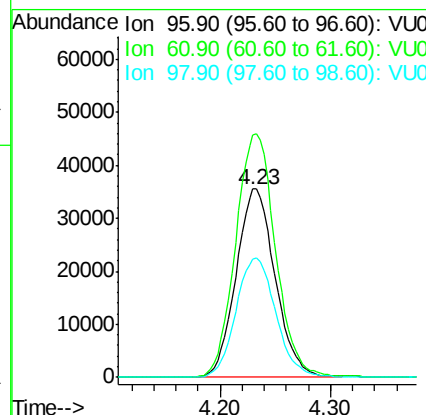
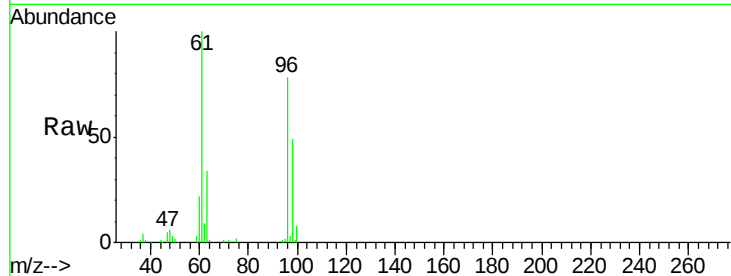




#27
 cis-1,2-Dichloroethene
 Concen: 29.293 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. -0.00 min
 Lab File: VU025143.D
 Acq: 02 Jul 2018 15:11

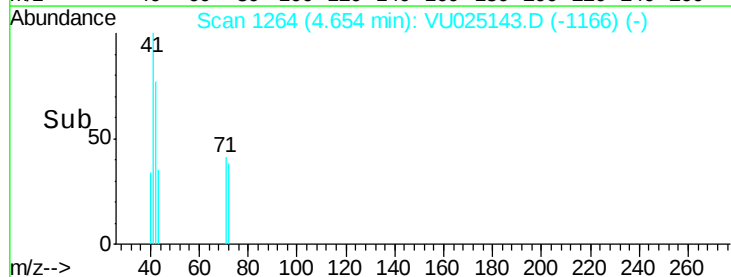
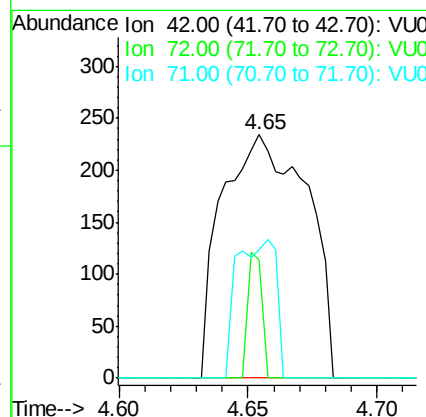
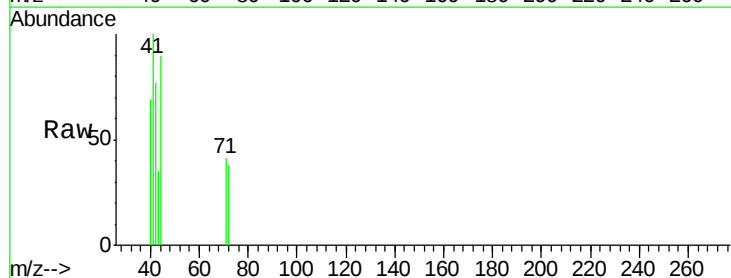
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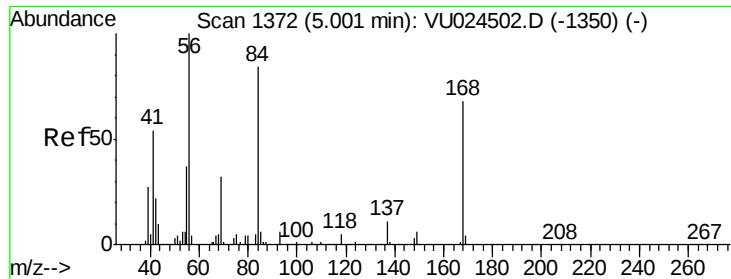
Tot Ion	Ratio	Lower	Upper
96	100		
61	132.2	0.0	306.6
98	64.6	0.0	128.8



#29
 Tetrahydrofuran
 Concen: 0.357 ug/l
 RT: 4.65 min Scan# 1264
 Delta R.T. 0.02 min
 Lab File: VU025143.D
 Acq: 02 Jul 2018 15:11

Tgt Ion	Ratio	Lower	Upper
42	100		
72	8.3	34.5	51.7#
71	26.3	32.2	48.4#

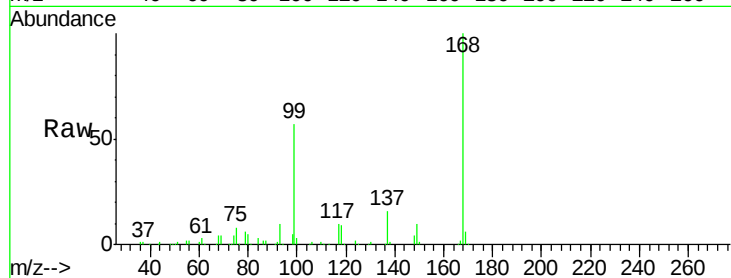




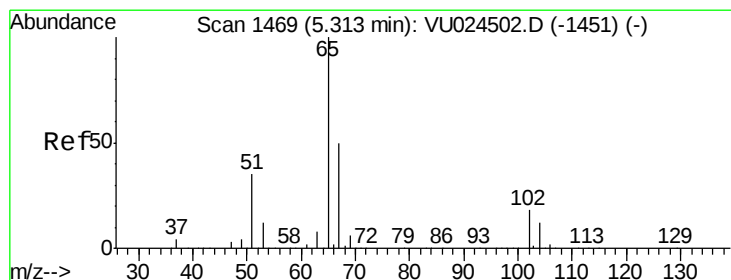
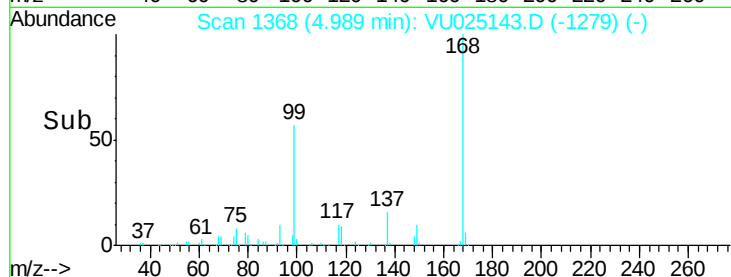
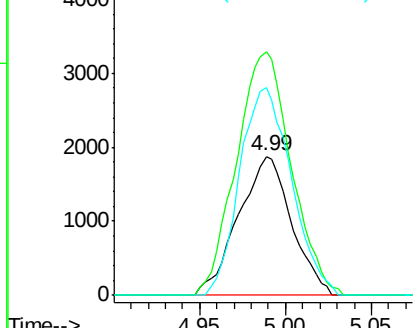
#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025143.D
Acq: 02 Jul 2018 15:11

Instrument :
MSVOA_U
ClientSampleId :
DUP-0475-180626DL

Tot Ion: 56 Resp: 4027
Ion Ratio Lower Upper
56 100
69 175.2 24.8 37.2#
84 149.7 65.2 97.8#

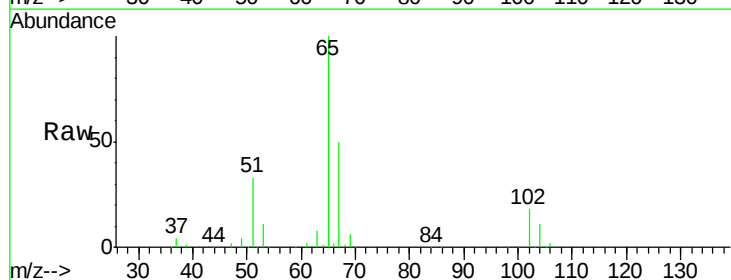


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

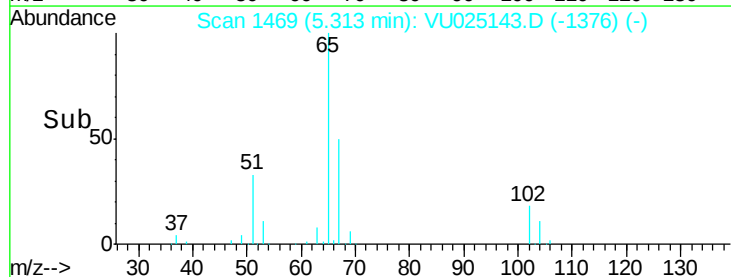
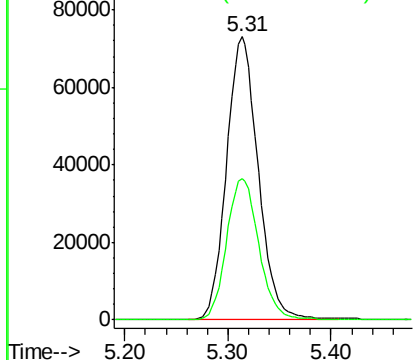


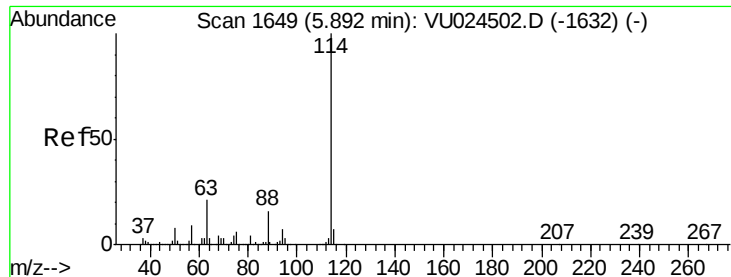
#33
1,2-Dichloroethane-d4
Concen: 46.377 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025143.D
Acq: 02 Jul 2018 15:11

Tgt Ion: 65 Resp: 156471
Ion Ratio Lower Upper
65 100
67 50.8 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

DUP-0475-180626DL

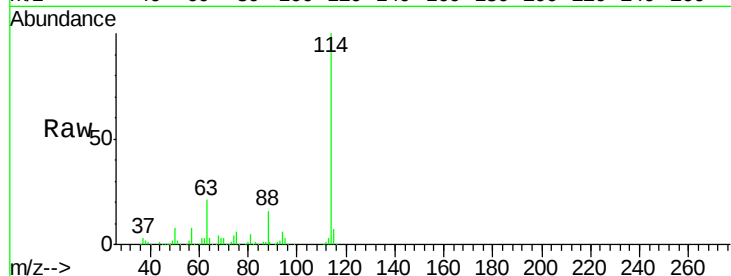
Tot Ion:114 Resp: 308068

Ion Ratio Lower Upper

114 100

63 20.9 0.0 45.4

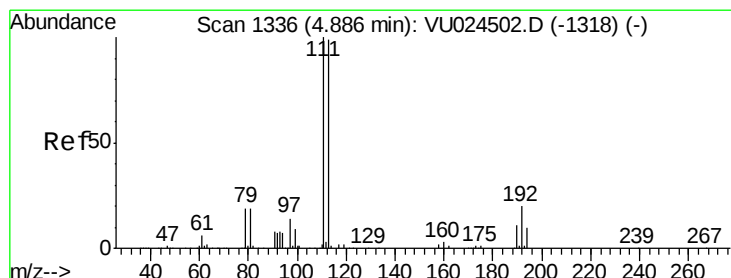
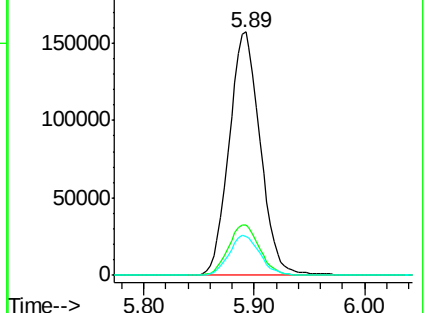
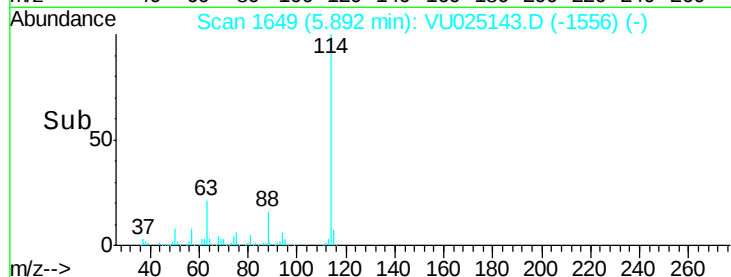
88 16.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.502 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

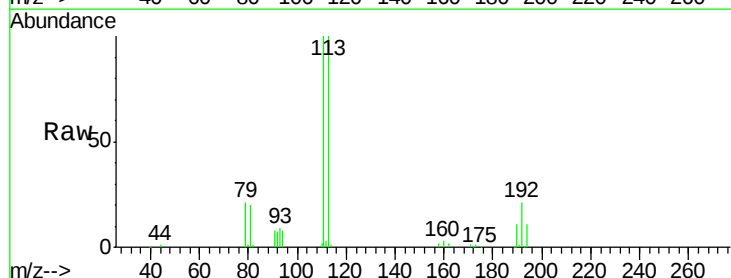
Tgt Ion:113 Resp: 121450

Ion Ratio Lower Upper

113 100

111 101.4 82.2 123.4

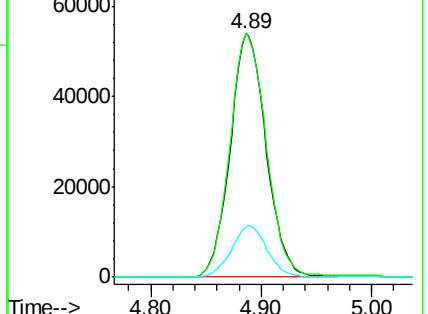
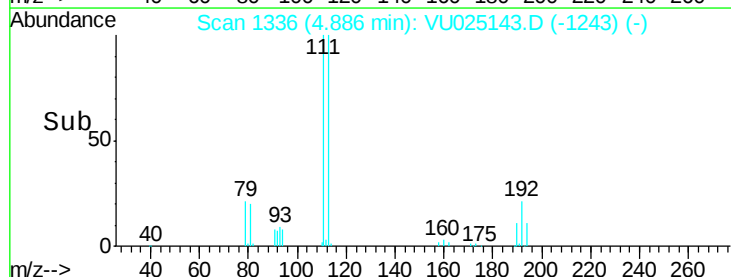
192 20.9 16.2 24.4

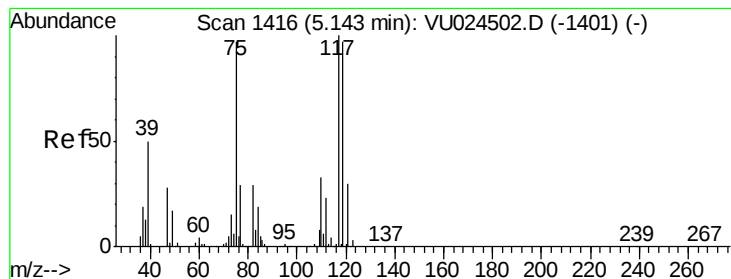


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.305 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

DUP-0475-180626DL

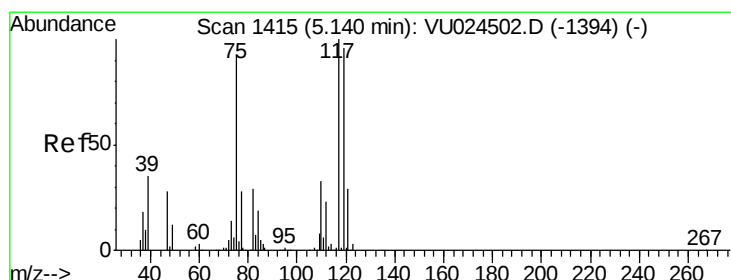
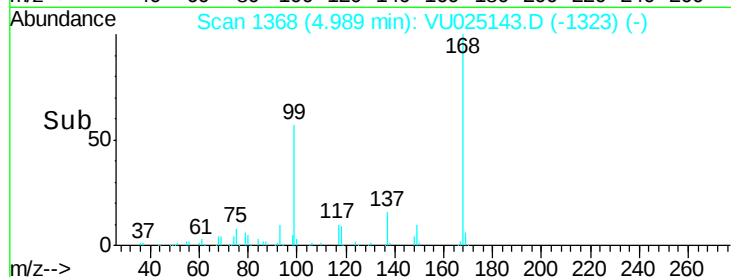
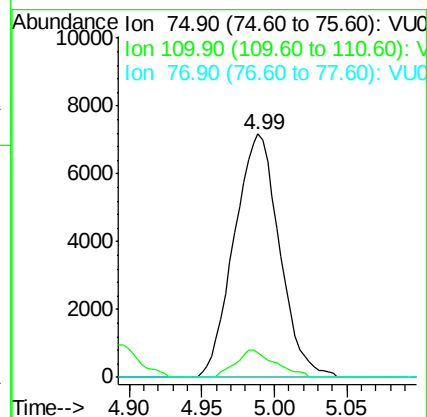
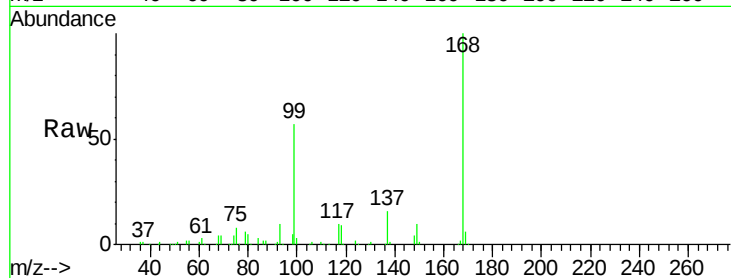
Tot Ion: 75 Resp: 15585

Ion Ratio Lower Upper

75 100

110 9.8 17.0 50.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 5.104 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

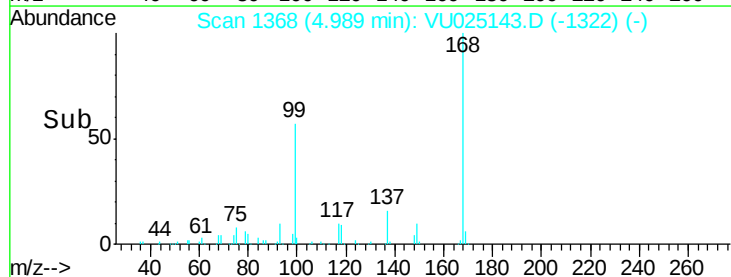
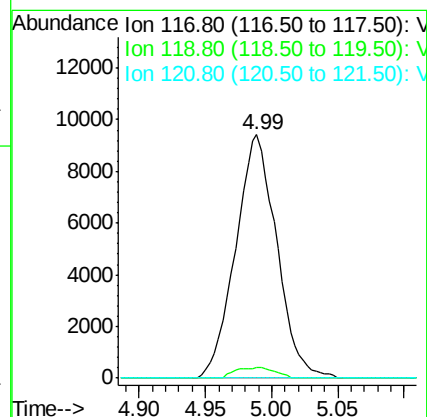
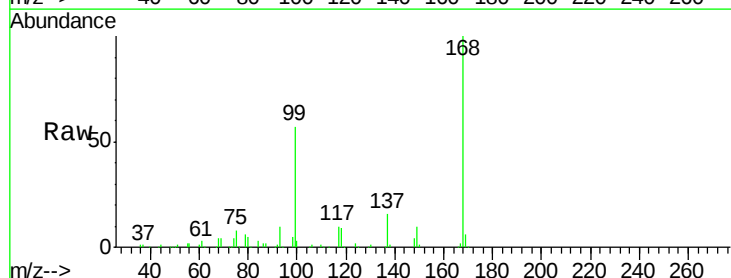
Tgt Ion: 117 Resp: 20319

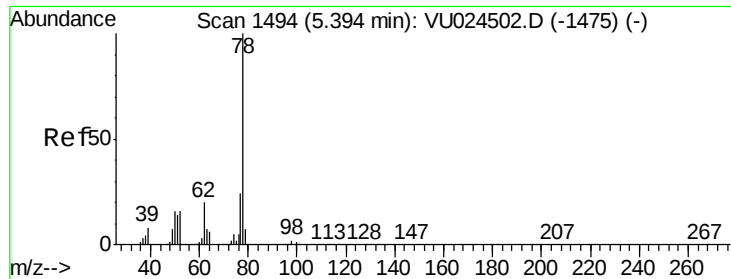
Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

121 0.0 23.7 35.5#





#40

Benzene

Concen: 0.377 ug/l

RT: 5.40 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

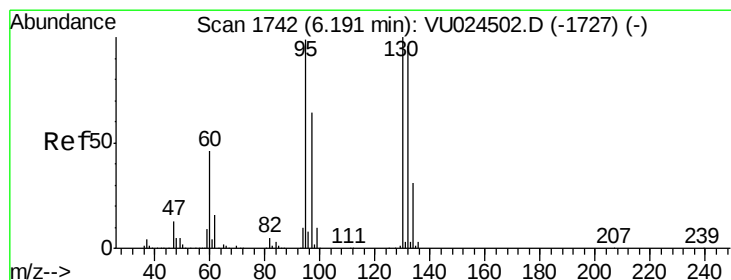
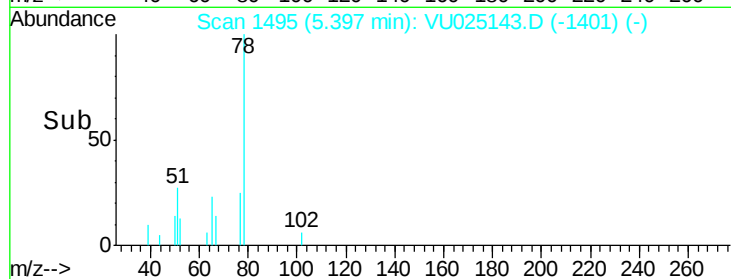
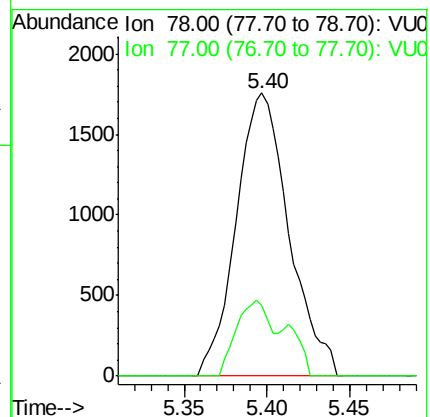
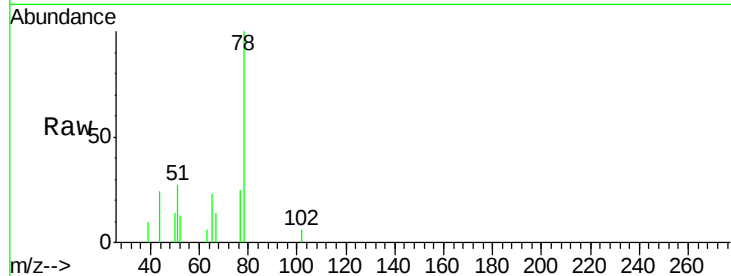
DUP-0475-180626DL

Tot Ion: 78 Resp: 3891

Ion Ratio Lower Upper

78 100

77 24.9 19.2 28.8



#44

Trichloroethene

Concen: 2.361 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU025143.D

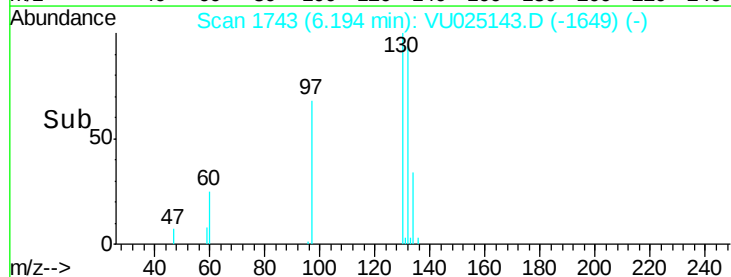
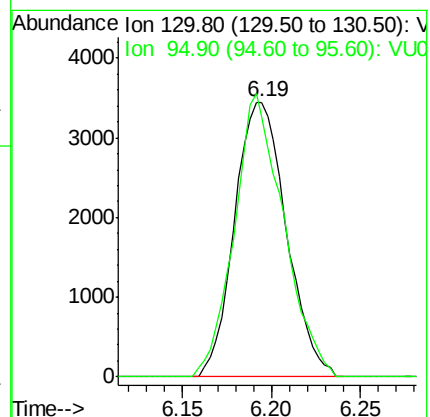
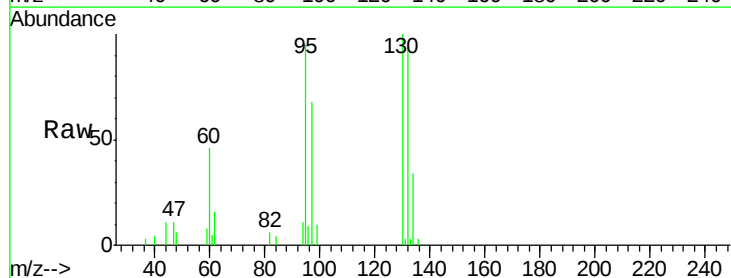
Acq: 02 Jul 2018 15:11

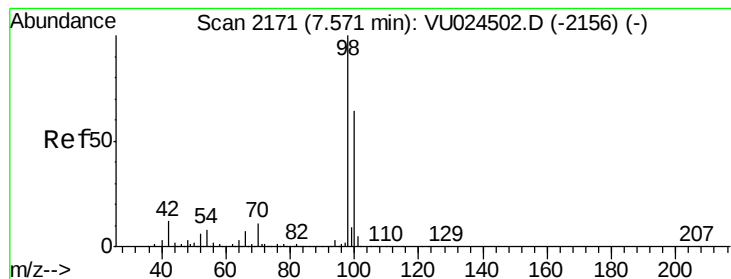
Tgt Ion: 130 Resp: 6932

Ion Ratio Lower Upper

130 100

95 94.8 0.0 202.4





#50

Toluene-d8

Concen: 47.486 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

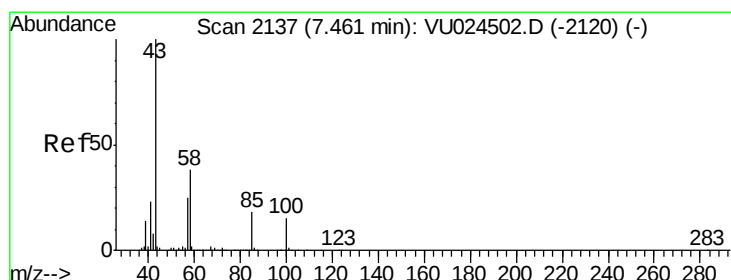
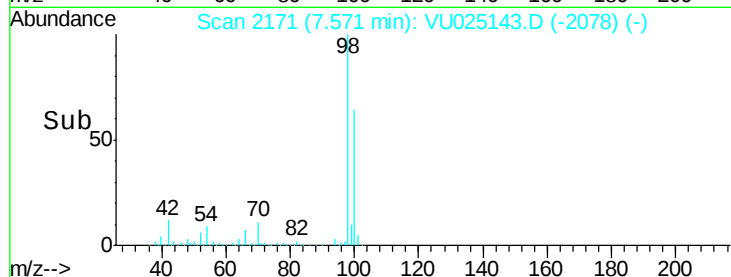
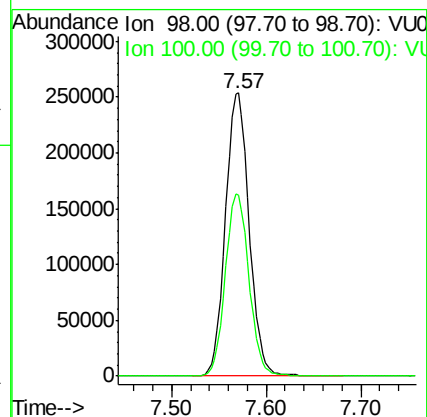
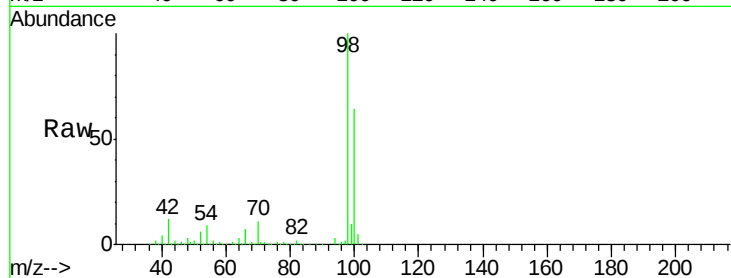
DUP-0475-180626DL

Tot Ion: 98 Resp: 442849

Ion Ratio Lower Upper

98 100

100 64.5 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.491 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.11 min

Lab File: VU025143.D

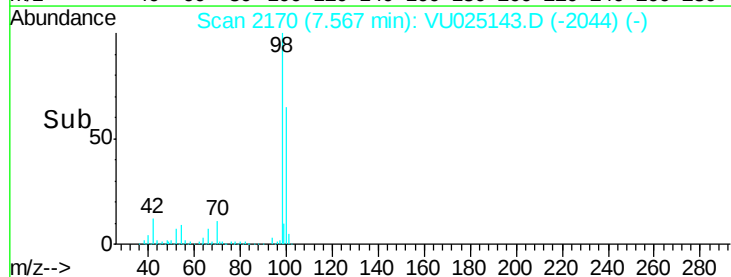
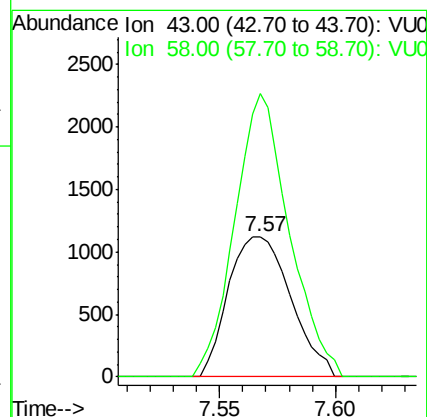
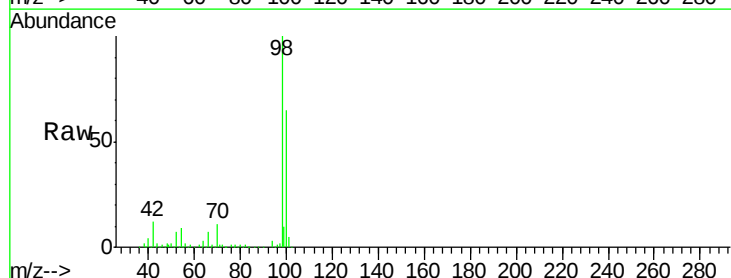
Acq: 02 Jul 2018 15:11

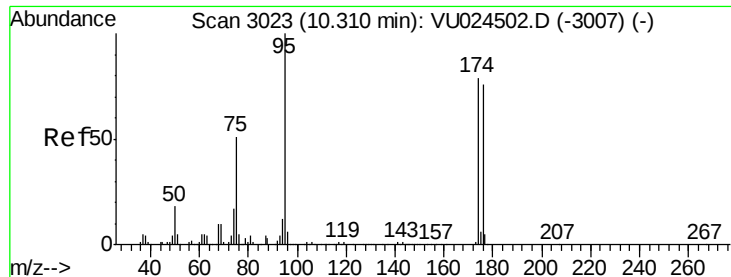
Tgt Ion: 43 Resp: 2102

Ion Ratio Lower Upper

43 100

58 175.9 30.0 45.0#





#62

4-Bromofluorobenzene

Concen: 44.050 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

Instrument :

MSVOA_U

ClientSampleId :

DUP-0475-180626DL

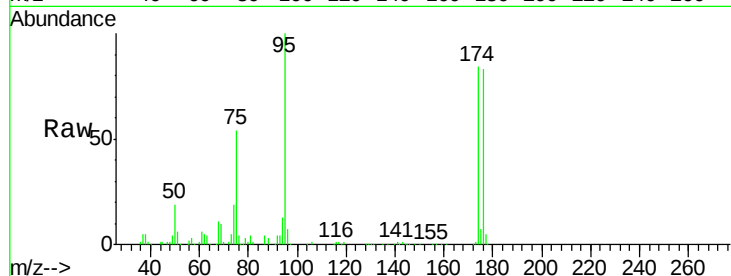
Tot Ion: 95 Resp: 163108

Ion Ratio Lower Upper

95 100

174 84.7 0.0 165.8

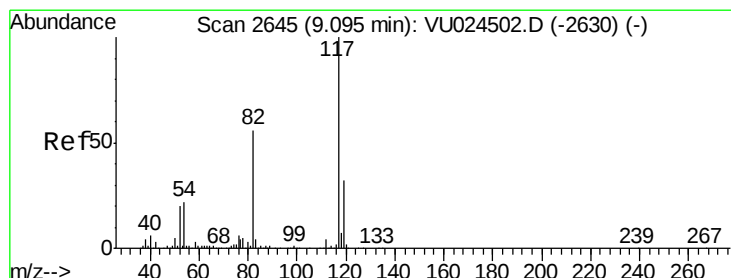
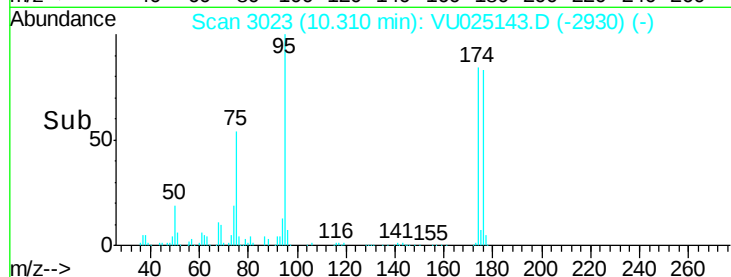
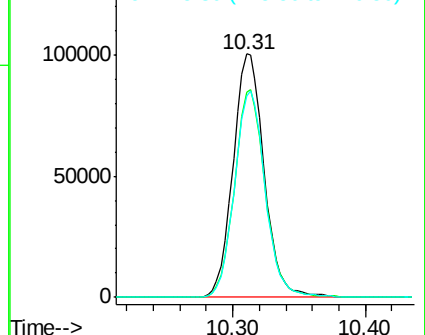
176 83.9 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VU025143.D

Acq: 02 Jul 2018 15:11

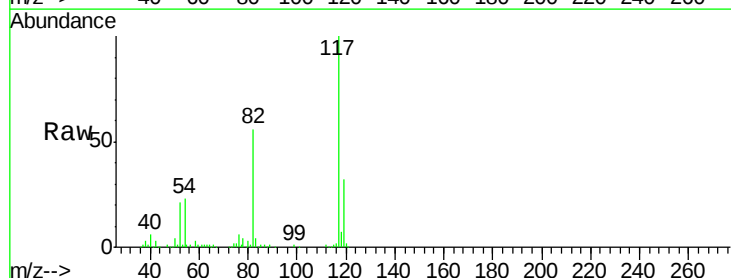
Tgt Ion: 117 Resp: 284916

Ion Ratio Lower Upper

117 100

82 55.8 44.3 66.5

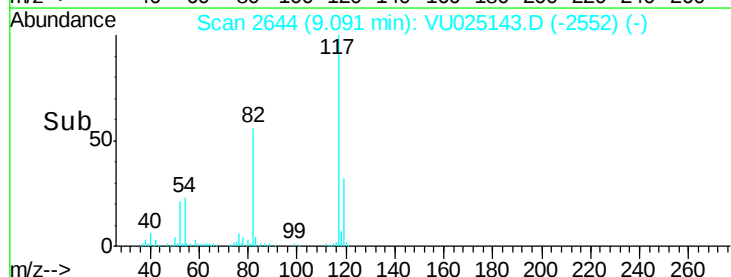
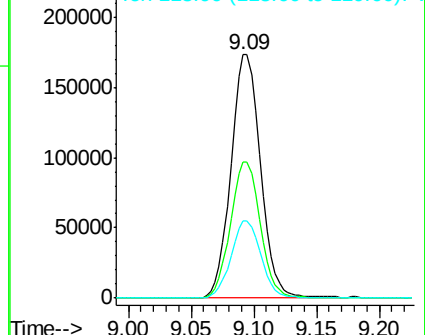
119 31.7 25.4 38.2

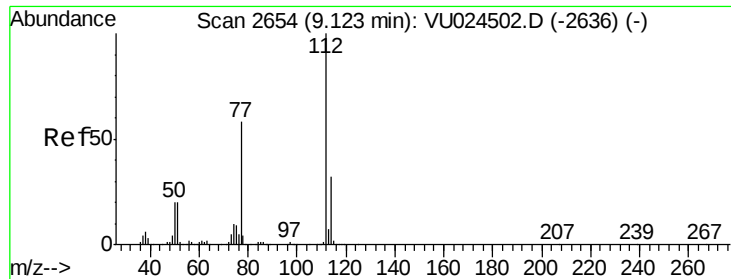


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)

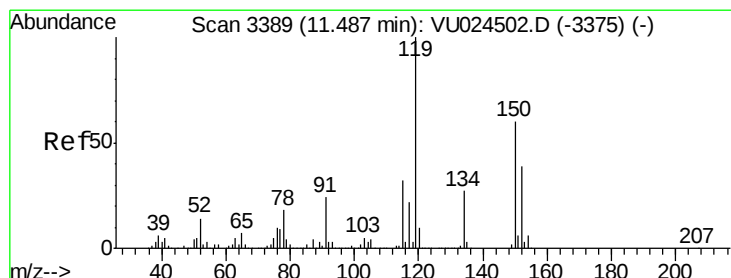
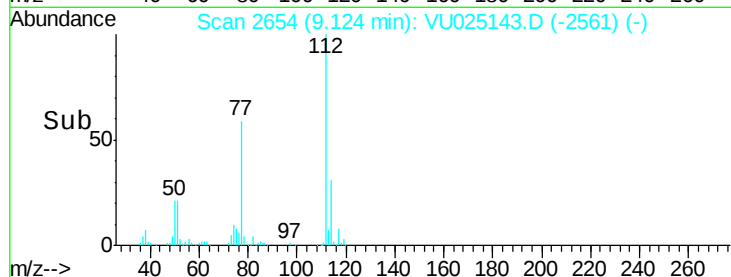
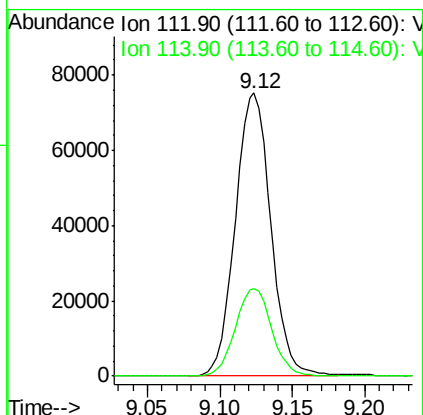
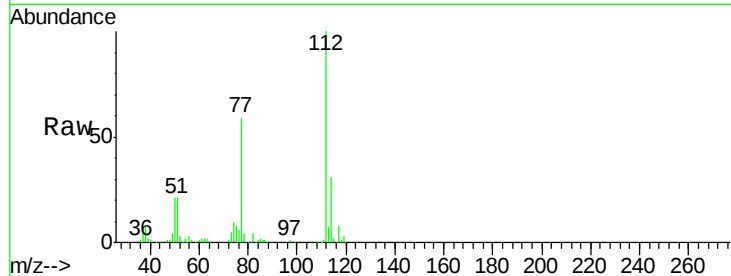




#65
Chlorobenzene
Concen: 17.591 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU025143.D
Acq: 02 Jul 2018 15:11

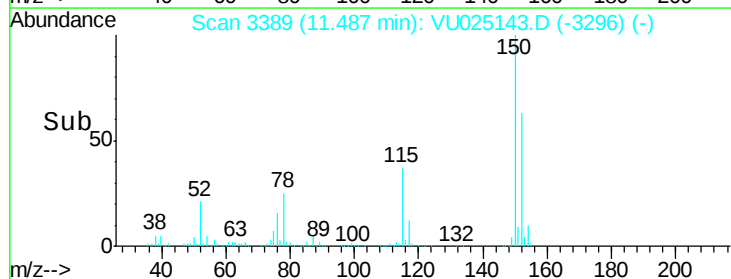
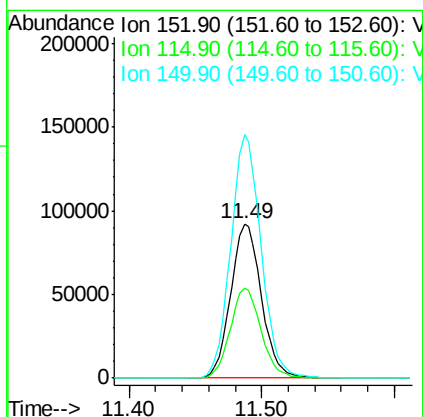
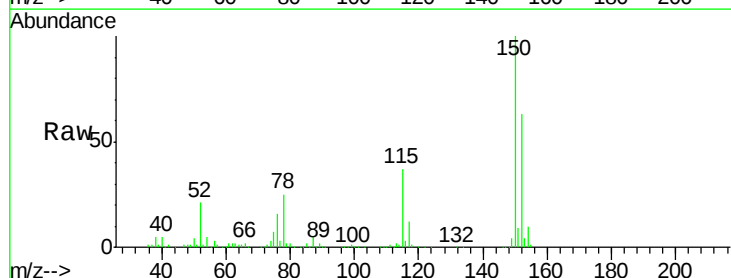
Instrument :
MSVOA_U
ClientSampleId :
DUP-0475-180626DL

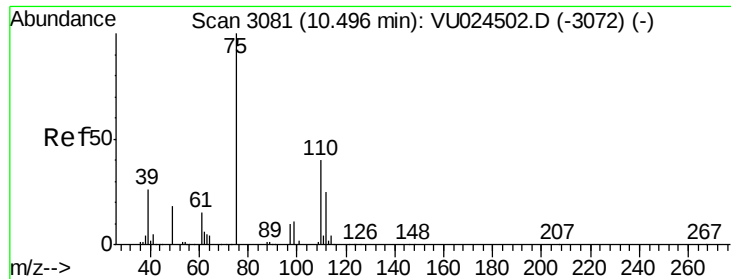
Tot Ion:112 Resp: 128034
Ion Ratio Lower Upper
112 100
114 31.1 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025143.D
Acq: 02 Jul 2018 15:11

Tgt Ion:152 Resp: 148267
Ion Ratio Lower Upper
152 100
115 58.8 43.0 129.0
150 156.4 0.0 354.0

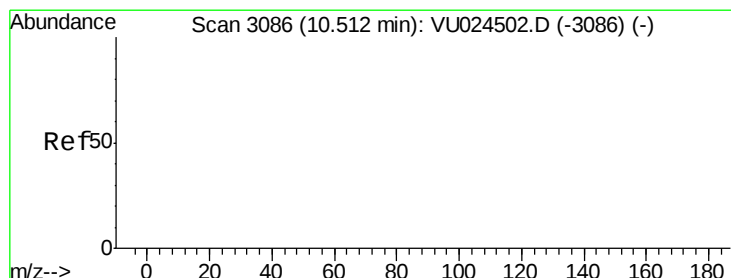
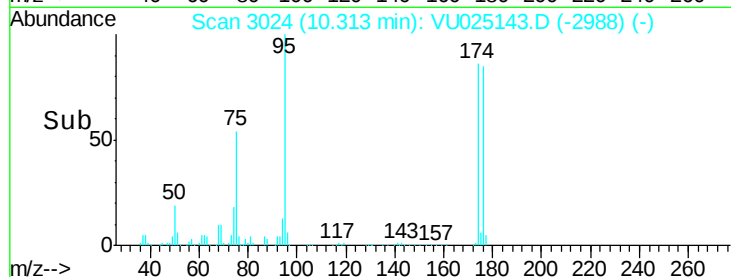
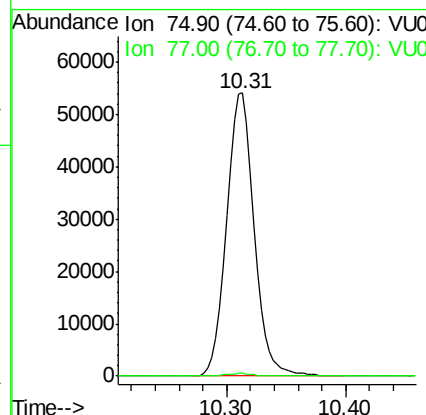
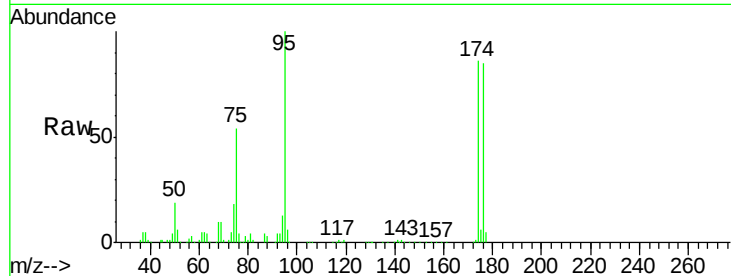




#76
 1,2,3-Trichloropropane
 Concen: 26.577 ug/l
 RT: 10.31 min Scan# 3024
 Delta R.T. -0.18 min
 Lab File: VU025143.D
 Acq: 02 Jul 2018 15:11

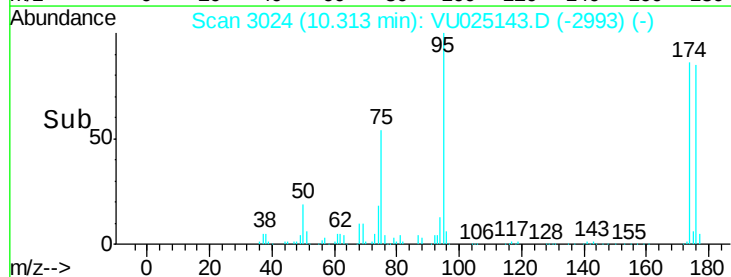
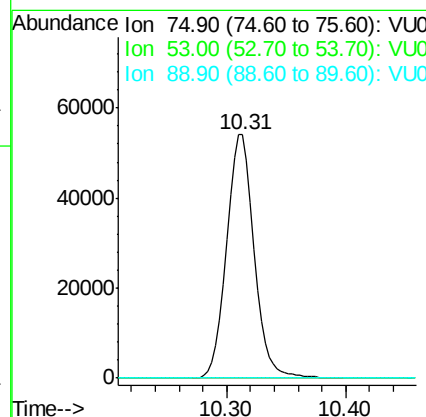
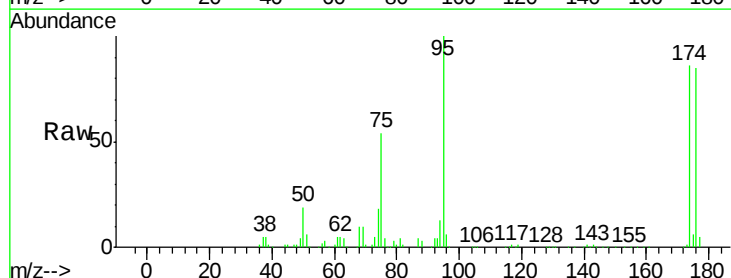
Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0475-180626DL

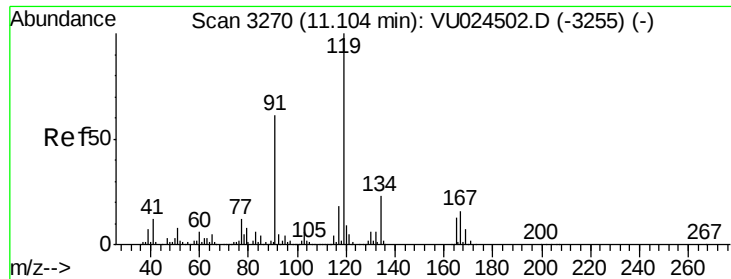
Tot Ion: 75 Resp: 86754
 Ion Ratio Lower Upper
 75 100
 77 0.9 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.509 ug/l
 RT: 10.31 min Scan# 3024
 Delta R.T. -0.20 min
 Lab File: VU025143.D
 Acq: 02 Jul 2018 15:11

Tgt Ion: 75 Resp: 86754
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

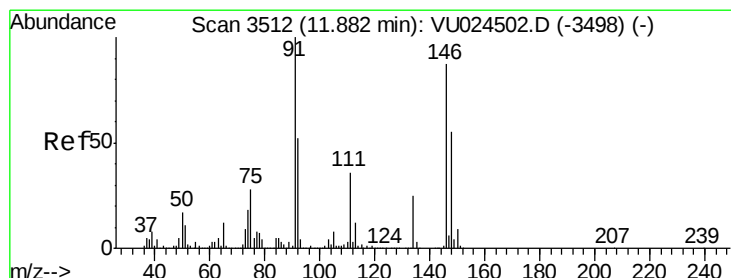
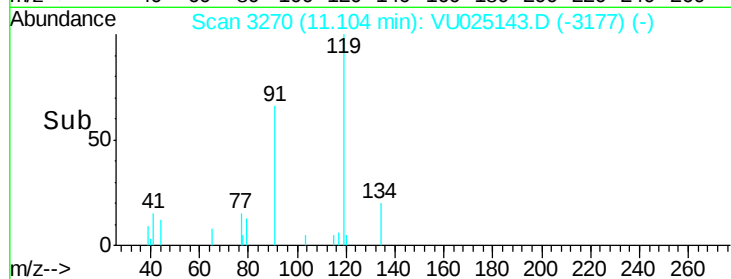
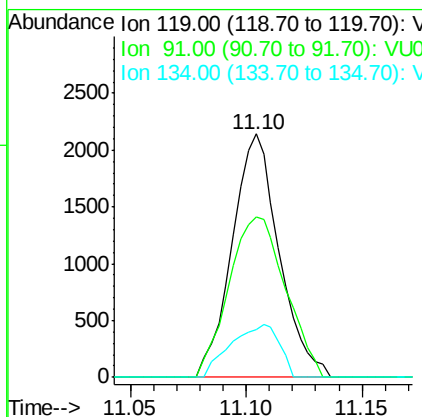
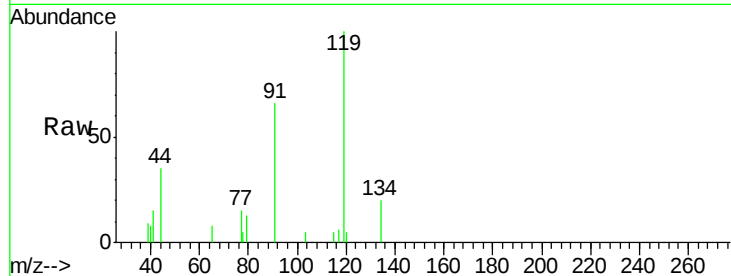




#83
tert-Butylbenzene
Concen: 0.317 ug/l
RT: 11.10 min Scan# 3270
Delta R.T. 0.00 min
Lab File: VU025143.D
Acq: 02 Jul 2018 15:11

Instrument :
MSVOA_U
ClientSampleId :
DUP-0475-180626DL

Tot Ion:119 Resp: 3006
Ion Ratio Lower Upper
119 100
91 79.6 29.7 89.1
134 22.4 11.6 34.7



#91
1,2-Dichlorobenzene
Concen: 0.636 ug/l
RT: 11.89 min Scan# 3514
Delta R.T. 0.01 min
Lab File: VU025143.D
Acq: 02 Jul 2018 15:11

Tgt Ion:146 Resp: 3392
Ion Ratio Lower Upper
146 100
111 40.4 20.5 61.6
148 60.9 31.9 95.7

