

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062718\
 Data File : VU024938.D
 Acq On : 26 Jun 2018 22:45
 Operator : MD/SY
 Sample : J3669-17ME 20X
 Misc : 5.73g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0483-180620ME

Quant Time: Jun 27 04:16:48 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	203390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	309666	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	289729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	157600	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	154495	46.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.06%	
35) Dibromofluoromethane	4.89	113	120683	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	
50) Toluene-d8	7.57	98	450901	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
62) 4-Bromofluorobenzene	10.31	95	169321	45.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.98%	

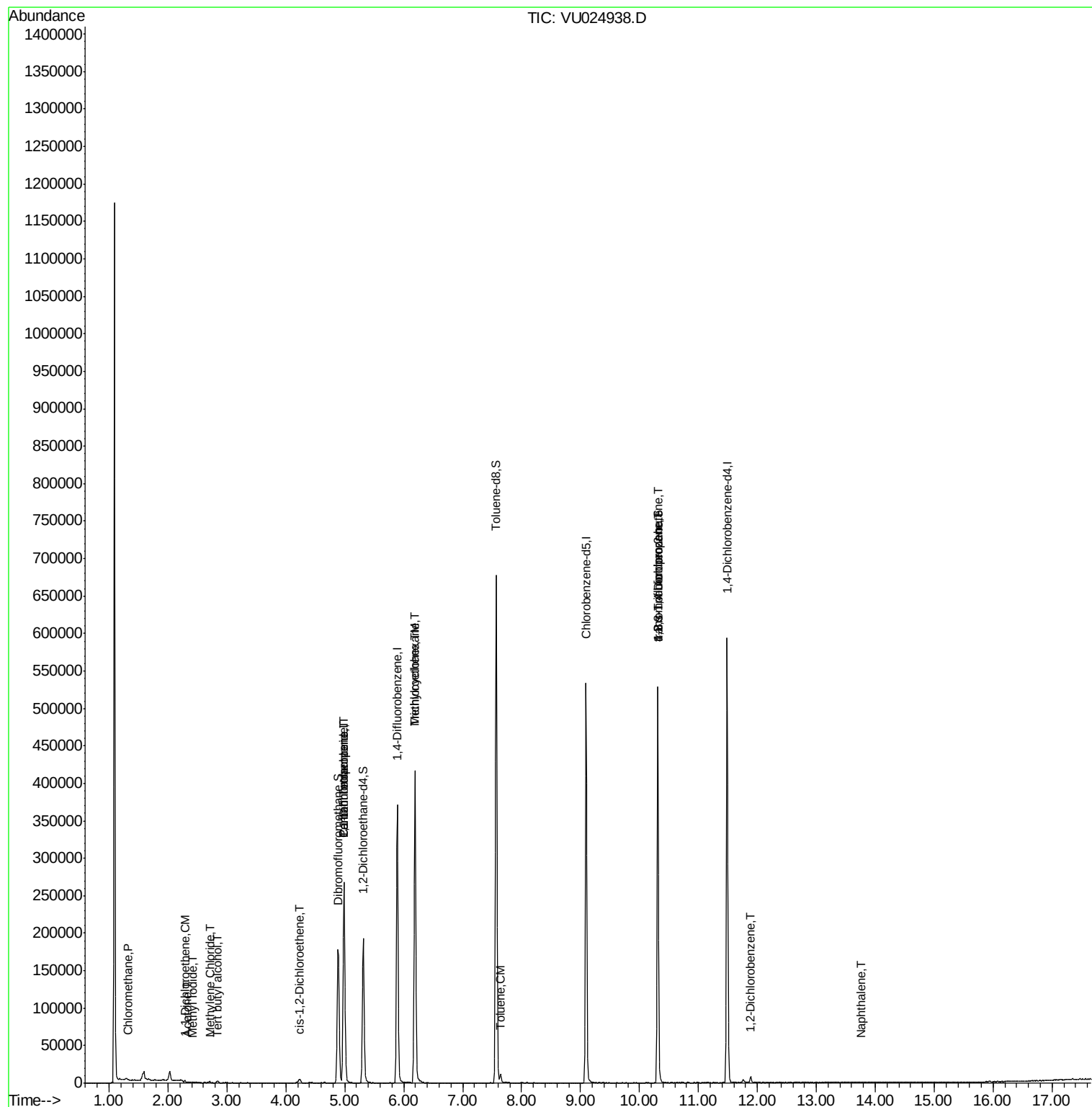
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	564	0.217	ug/l #	83
6) Chloroethane	1.70	64	112	Below Cal	#	43
10) Methyl Iodide	2.42	142	20	5.297	ug/l #	40
11) Tert butyl alcohol	2.84	59	1029	1.274	ug/l #	72
12) 1,1-Dichloroethene	2.28	96	651	0.281	ug/l #	67
16) Acetone	2.32	43	773	0.433	ug/l #	44
20) Methylene Chloride	2.71	84	1031	0.368	ug/l	86
27) cis-1,2-Dichloroethene	4.23	96	2827	0.964	ug/l	87
31) Cyclohexane	4.99	56	4265	Below Cal	#	21
36) 1,1-Dichloropropene	4.99	75	15332	4.213	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19910	4.976	ug/l #	17
39) Methylcyclohexane	6.19	83	1680	0.370	ug/l #	1
44) Trichloroethene	6.19	130	144003	48.800	ug/l	100
52) Toluene	7.64	92	4602	0.690	ug/l	92
76) 1,2,3-Trichloropropane	10.31	75	88962	25.639	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	88962	59.340	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	4002	0.706	ug/l	98
95) Naphthalene	13.76	128	20	0.681	ug/l #	69

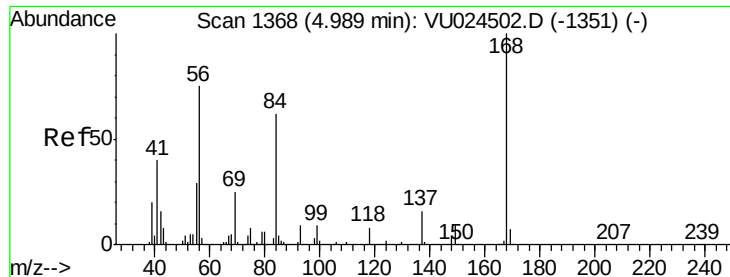
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Instrument :

MSVOA_U

ClientSampleId :

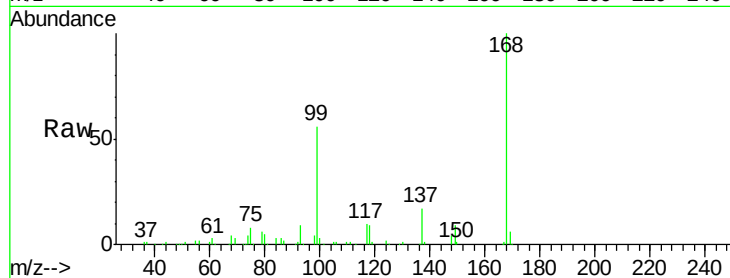
DUP-0483-180620ME

Tgt Ion:168 Resp: 203390

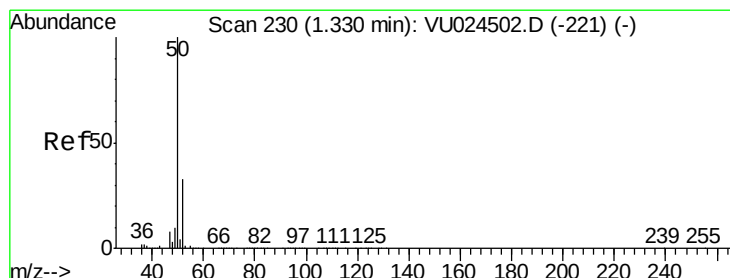
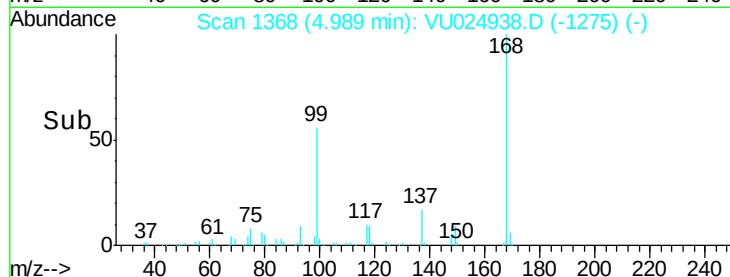
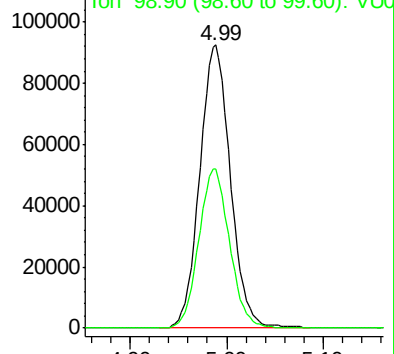
Ion Ratio Lower Upper

168 100

99 56.2 43.2 64.8



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



#3

Chloromethane

Concen: 0.217 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024938.D

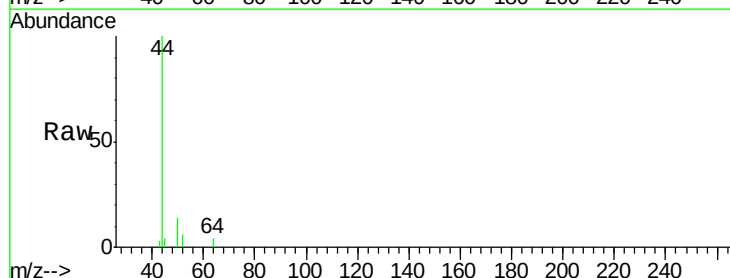
Acq: 26 Jun 2018 22:45

Tgt Ion: 50 Resp: 564

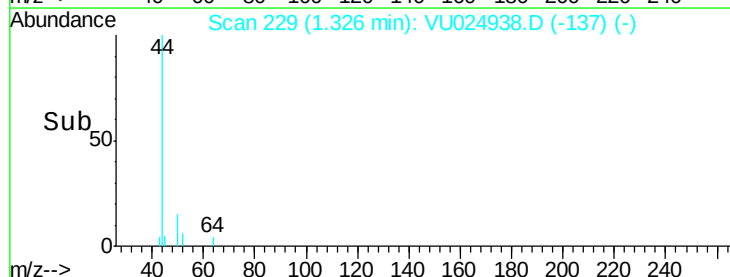
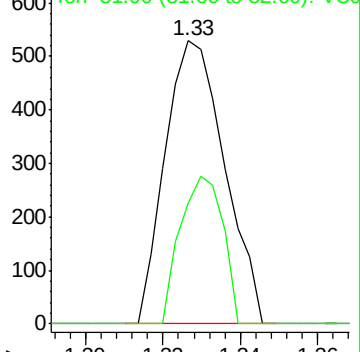
Ion Ratio Lower Upper

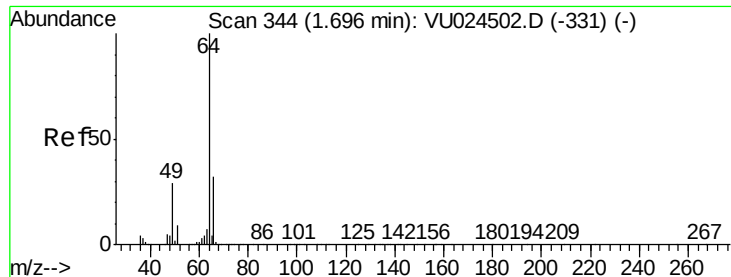
50 100

52 42.7 26.4 39.6#



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





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Instrument :

MSVOA_U

ClientSampleId :

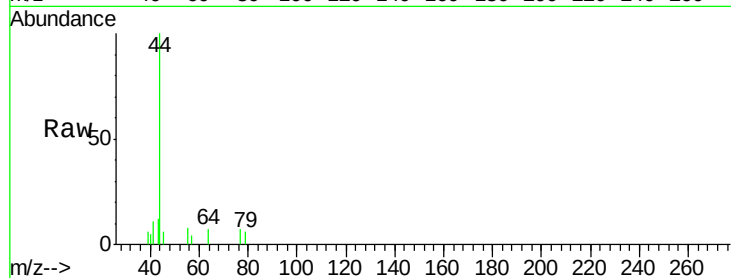
DUP-0483-180620ME

Tgt Ion: 64 Resp: 112

Ion Ratio Lower Upper

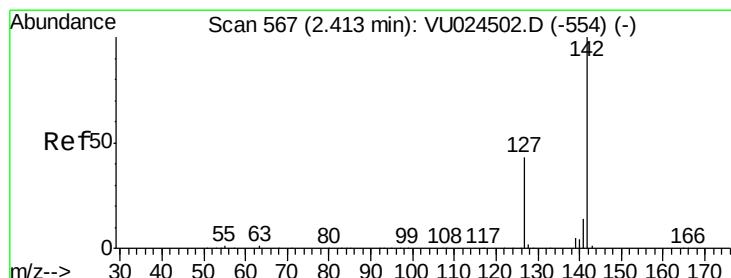
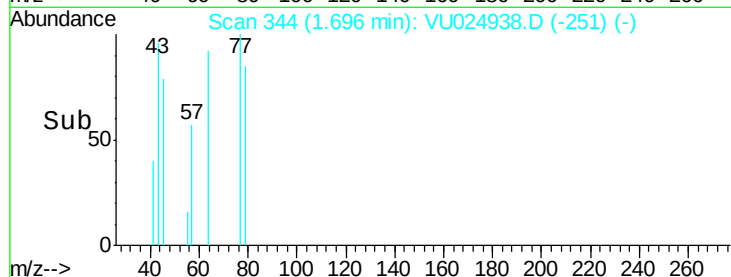
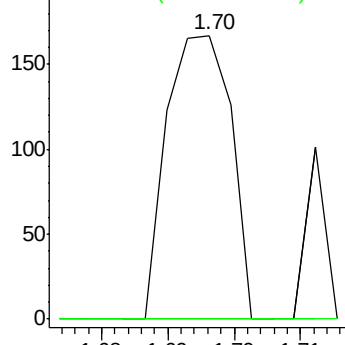
64 100

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



#10

Methyl Iodide

Concen: 5.297 ug/l

RT: 2.42 min Scan# 569

Delta R.T. 0.01 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

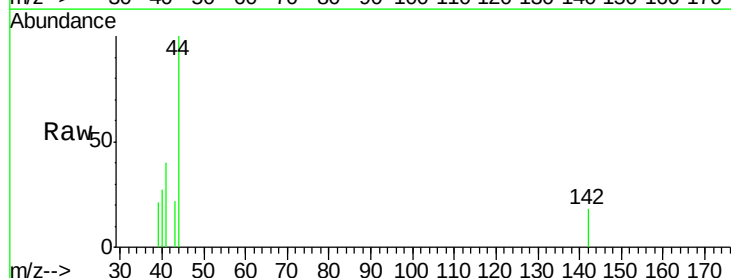
Tgt Ion: 142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

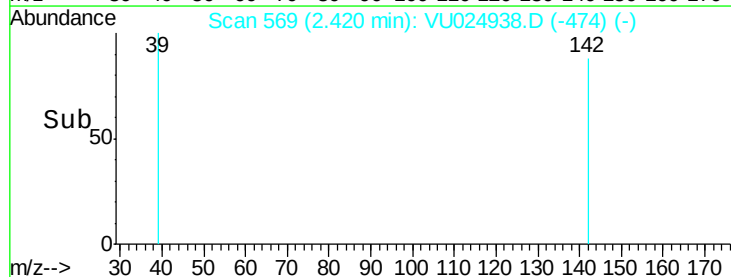
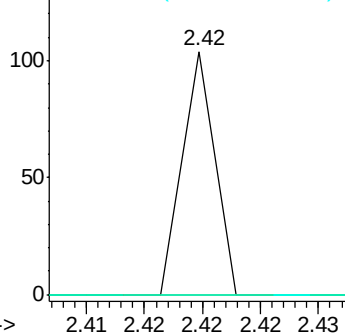
141 0.0 11.7 17.5#

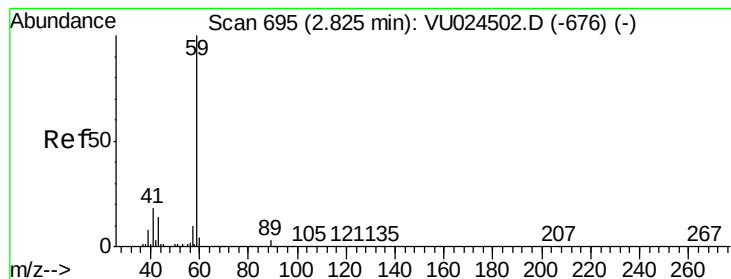


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



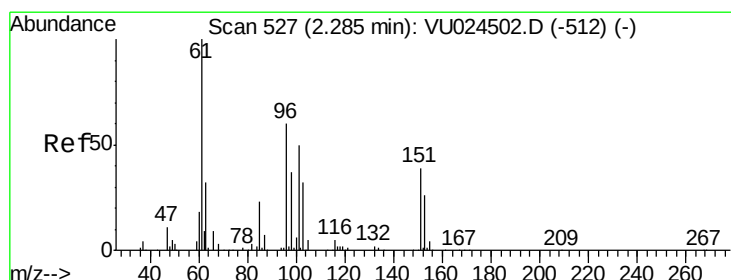
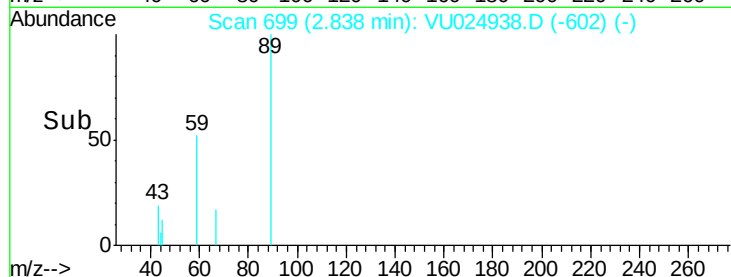
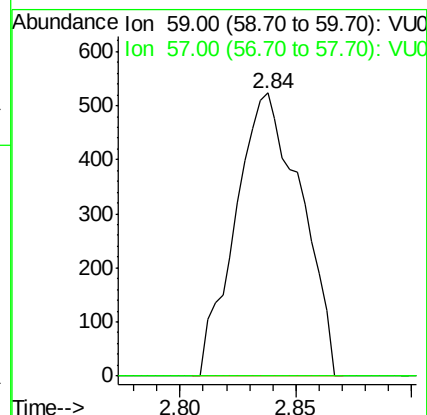
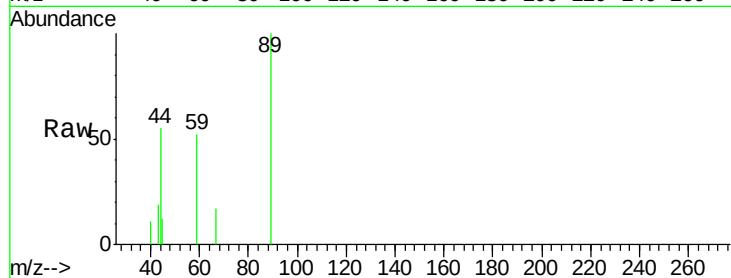


#11

Tert butyl alcohol
 Concen: 1.274 ug/l
 RT: 2.84 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0483-180620ME

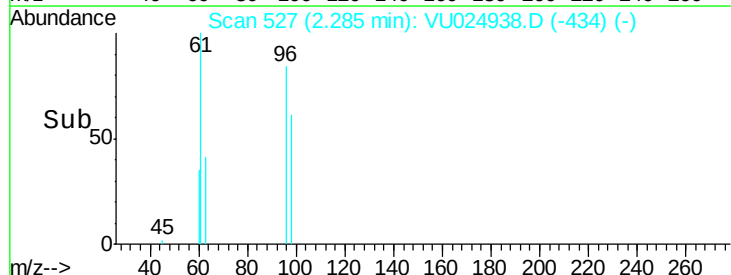
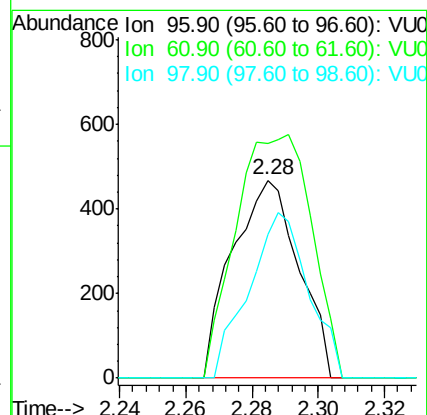
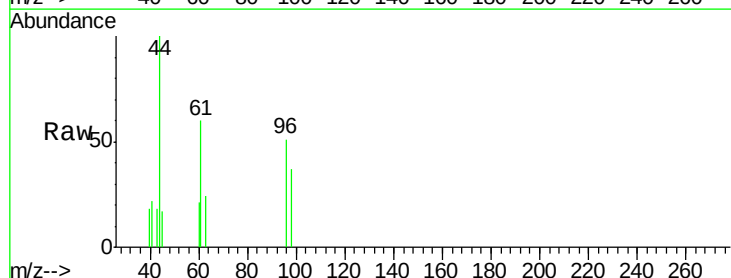
Tgt Ion: 59 Resp: 1029
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

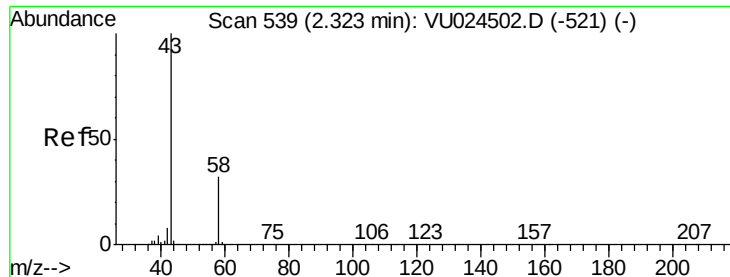


#12

1,1-Dichloroethene
 Concen: 0.281 ug/l
 RT: 2.28 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

Tgt Ion: 96 Resp: 651
 Ion Ratio Lower Upper
 96 100
 61 118.6 141.7 212.5#
 98 72.4 51.6 77.4





#16

Acetone

Concen: 0.433 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Instrument :

MSVOA_U

ClientSampleId :

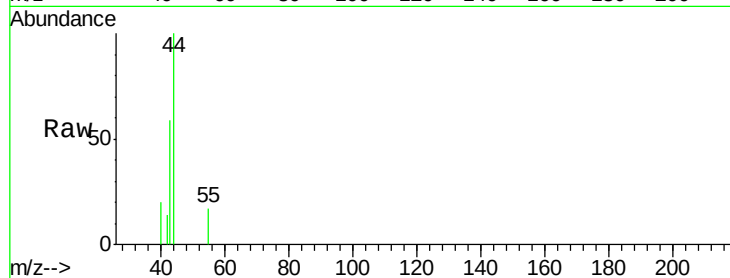
DUP-0483-180620ME

Tgt Ion: 43 Resp: 773

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-521) (-)

Ion 58.00 (57.70 to 58.70): VU024502.D (-521) (-)

2.32

400

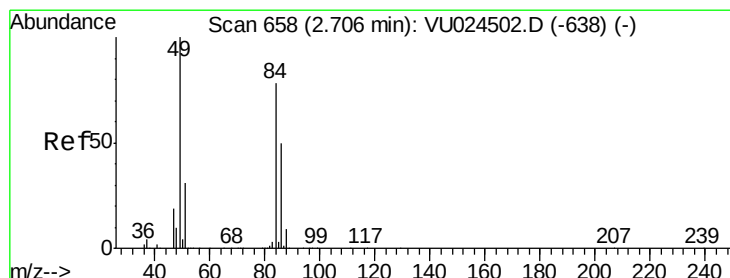
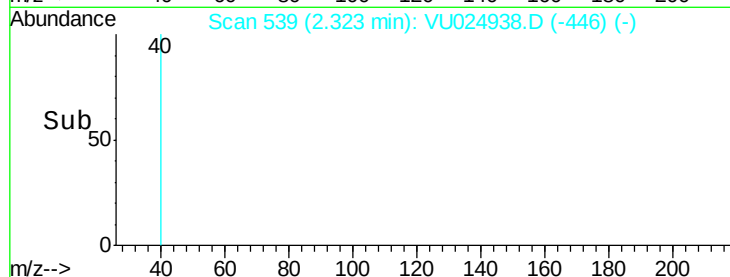
300

200

100

0

Time--> 2.28 2.30 2.32 2.34 2.36



#20

Methylene Chloride

Concen: 0.368 ug/l

RT: 2.71 min Scan# 658

Delta R.T. 0.00 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Tgt Ion: 84 Resp: 1031

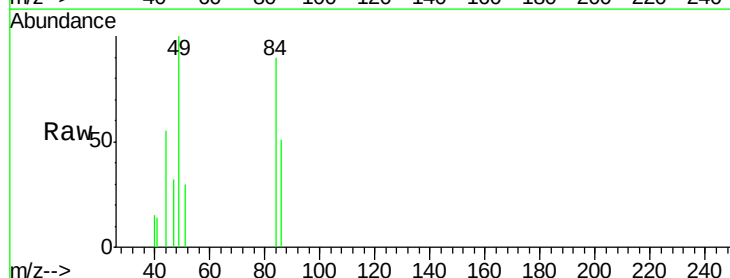
Ion Ratio Lower Upper

84 100

49 110.5 103.8 155.8

51 33.2 32.0 48.0

86 56.9 51.6 77.4



Abundance Ion 83.90 (83.60 to 84.60): VU024502.D (-638) (-)

Ion 48.90 (48.60 to 49.60): VU024502.D (-638) (-)

Ion 50.90 (50.60 to 51.60): VU024502.D (-638) (-)

Ion 85.90 (85.60 to 86.60): VU024502.D (-638) (-)

1000

800

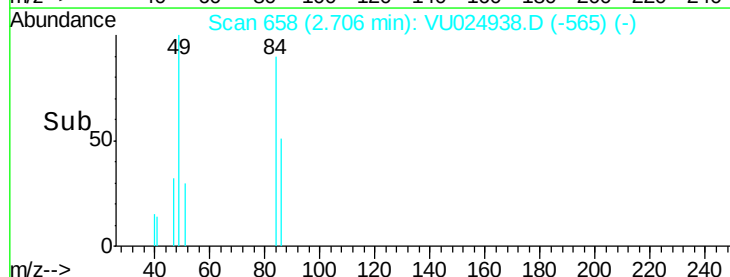
600

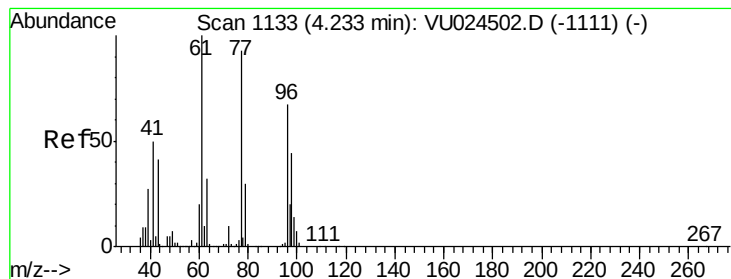
400

200

0

Time--> 2.65 2.70 2.75





#27

cis-1,2-Dichloroethene

Concen: 0.964 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Instrument :

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ClientSampleId :

DUP-0483-180620ME

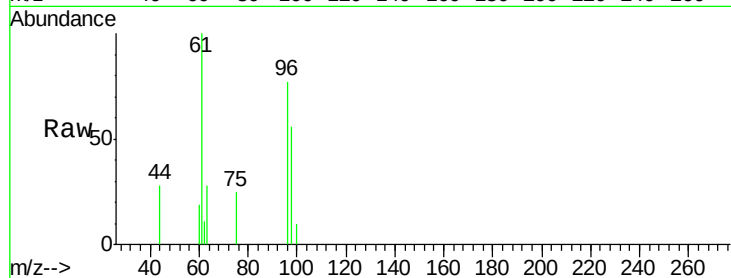
Tgt Ion: 96 Resp: 2827

Ion Ratio Lower Upper

96 100

61 133.8 0.0 306.6

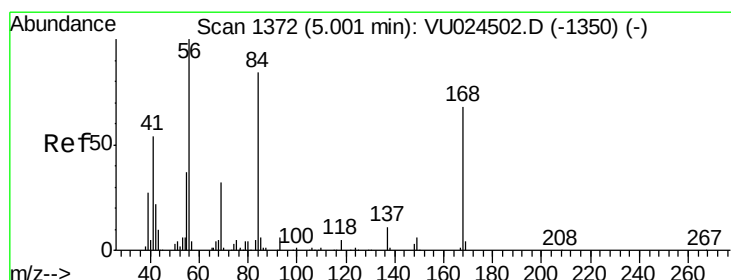
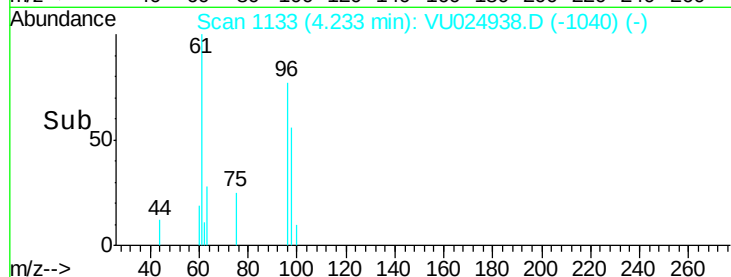
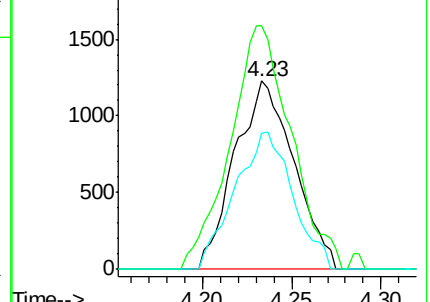
98 71.2 0.0 128.8



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



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

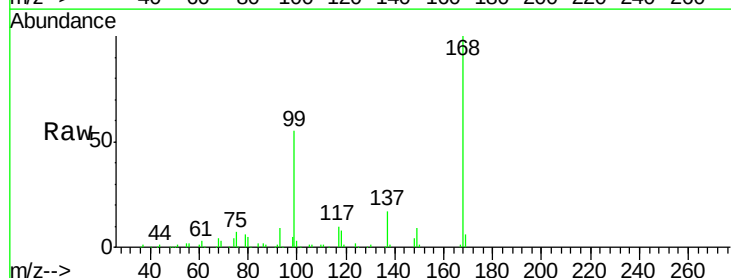
Tgt Ion: 56 Resp: 4265

Ion Ratio Lower Upper

56 100

69 147.3 24.8 37.2#

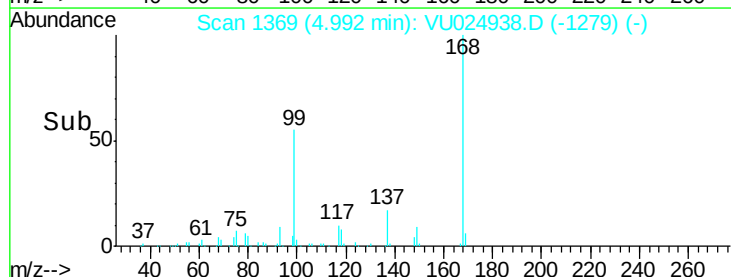
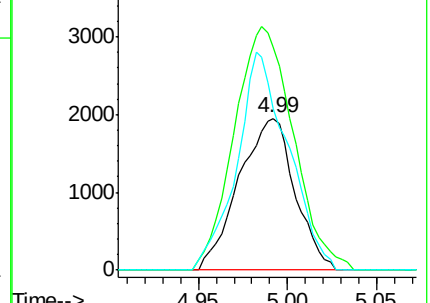
84 106.5 65.2 97.8#

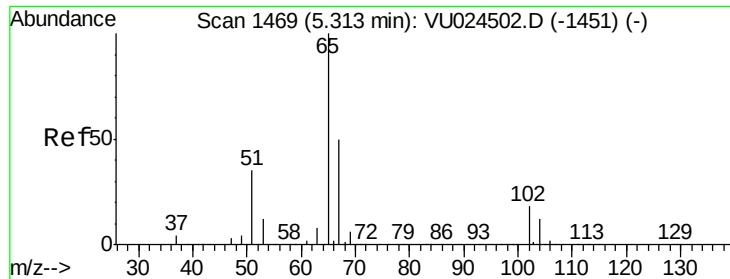


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

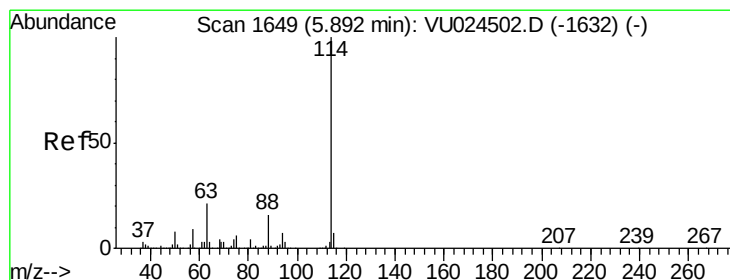
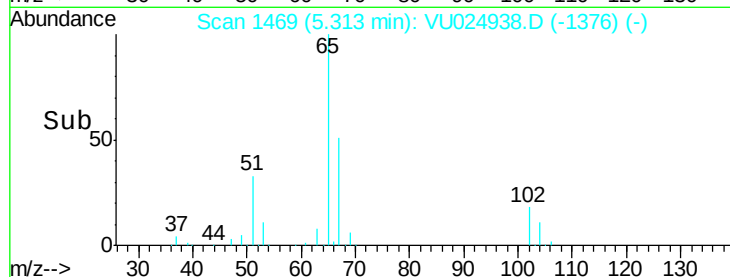
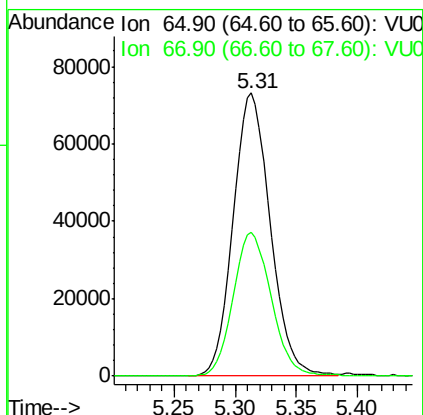
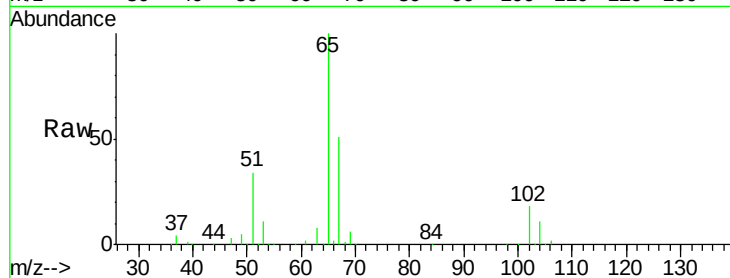




#33
 1,2-Dichloroethane-d4
 Concen: 46.529 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

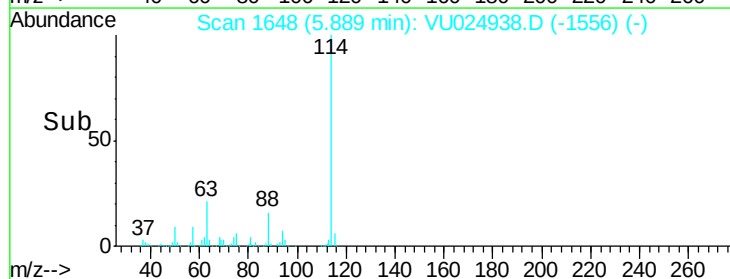
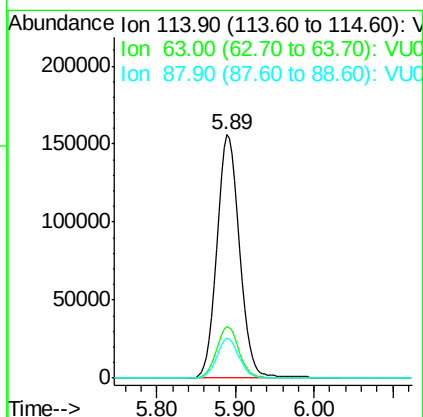
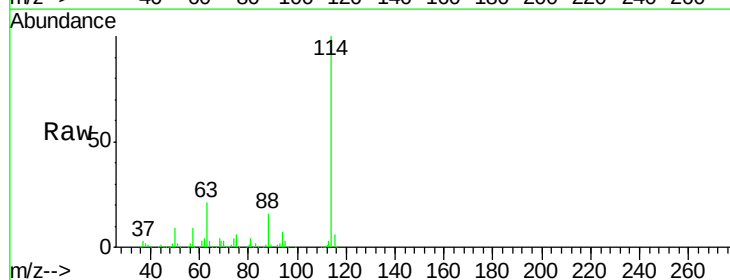
Instrument :
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 DUP-0483-180620ME

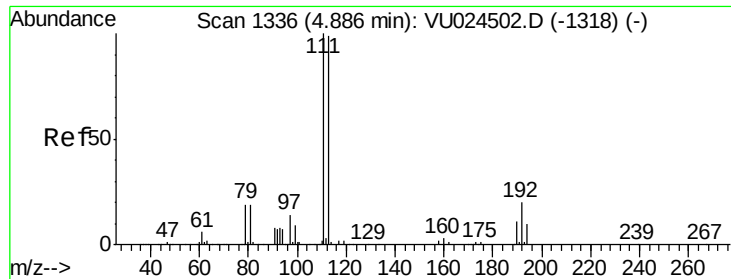
Tgt Ion: 65 Resp: 154495
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

Tgt Ion: 114 Resp: 309666
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 45.4
 88 16.3 0.0 31.0

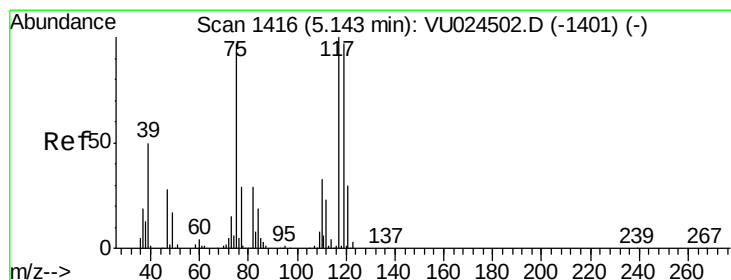
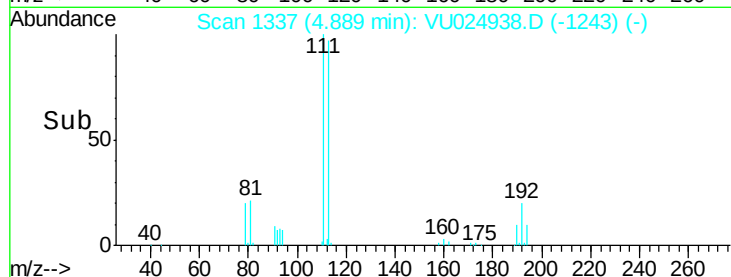
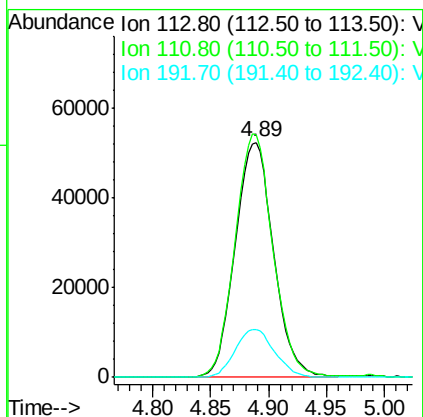
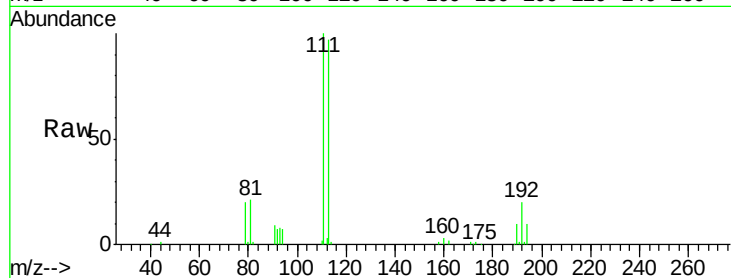




#35
 Dibromofluoromethane
 Concen: 46.959 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

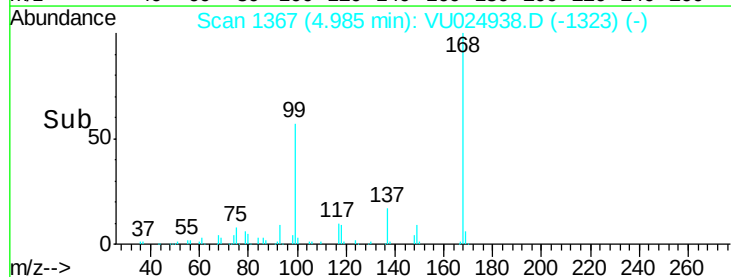
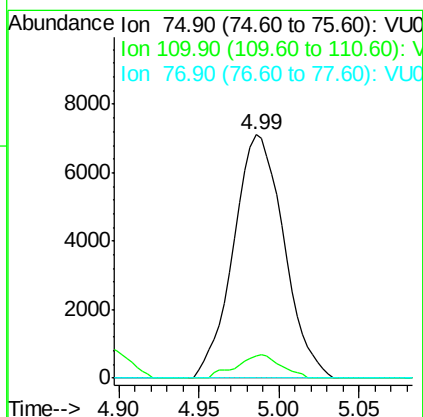
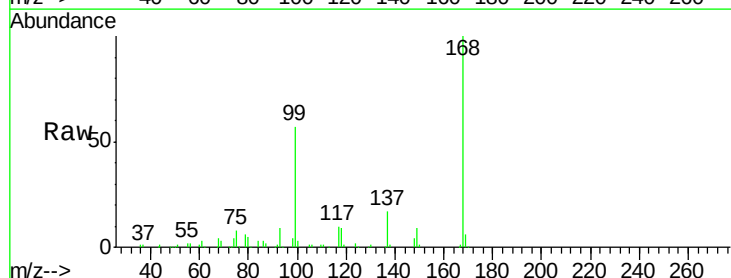
Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0483-180620ME

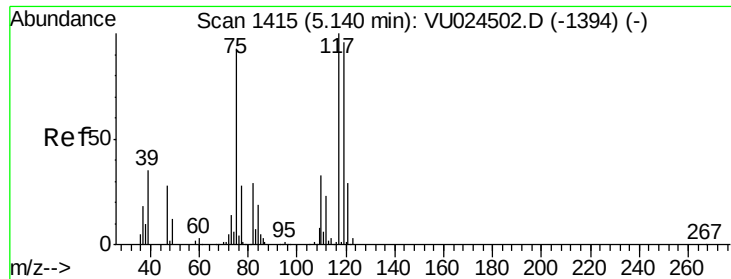
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.2	123.4
192	21.0	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.213 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.976 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Instrument :

MSVOA_U

ClientSampleId :

DUP-0483-180620ME

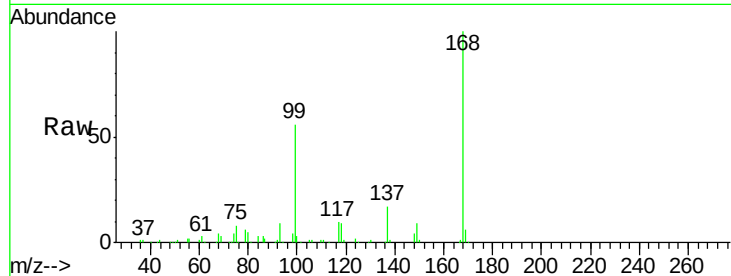
Tgt Ion:117 Resp: 19910

Ion Ratio Lower Upper

117 100

119 5.6 76.1 114.1#

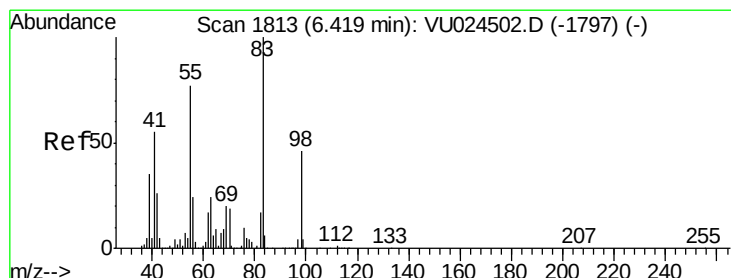
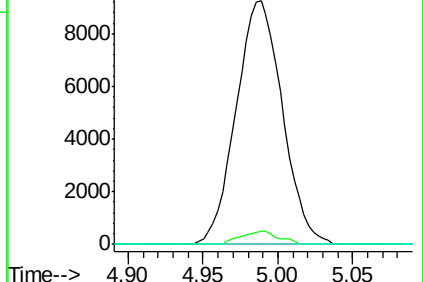
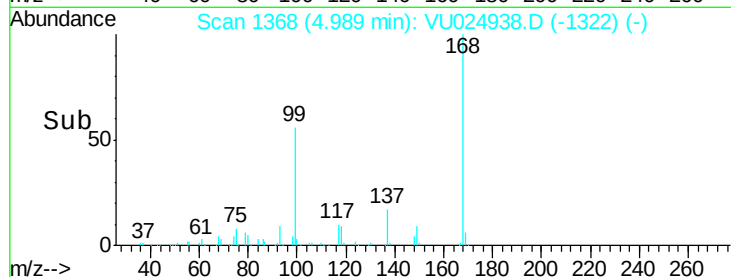
121 0.0 23.7 35.5#



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: 0.370 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.23 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

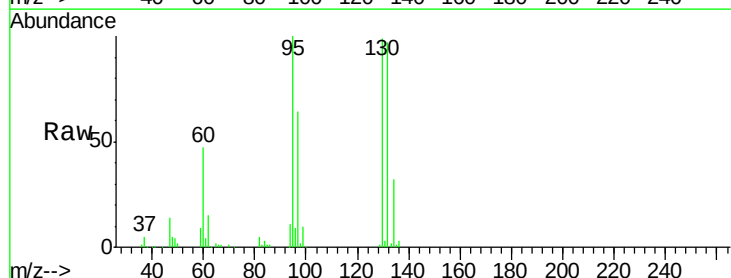
Tgt Ion: 83 Resp: 1680

Ion Ratio Lower Upper

83 100

55 0.0 65.8 98.6#

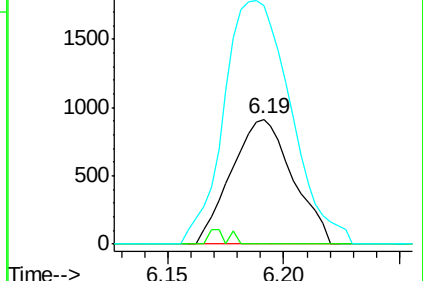
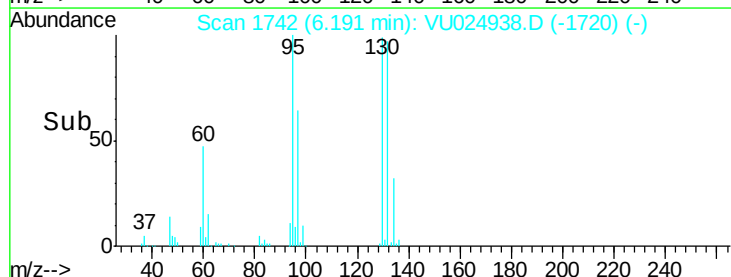
98 178.4 36.7 55.1#

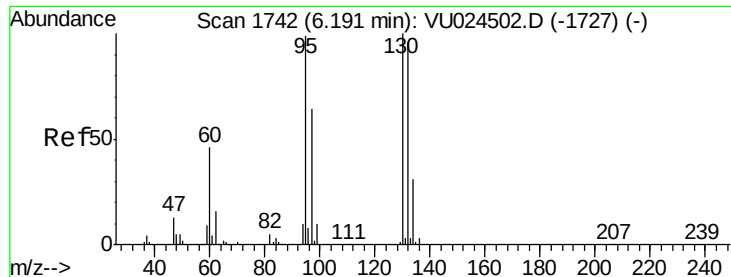


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#44

Trichloroethene

Concen: 48.800 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Instrument :

MSVOA_U

ClientSampleId :

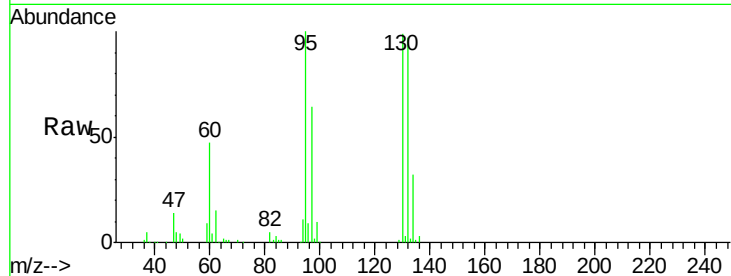
DUP-0483-180620ME

Tgt Ion:130 Resp: 144003

Ion Ratio Lower Upper

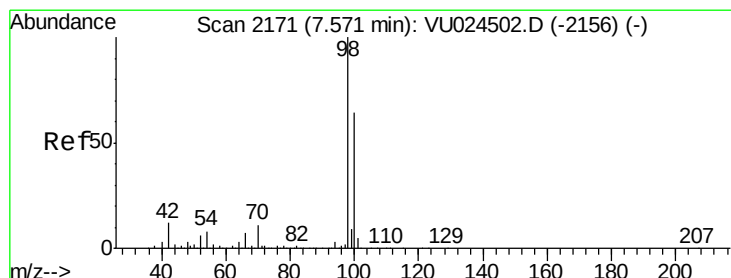
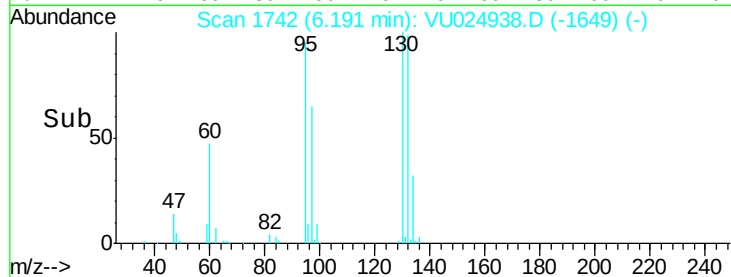
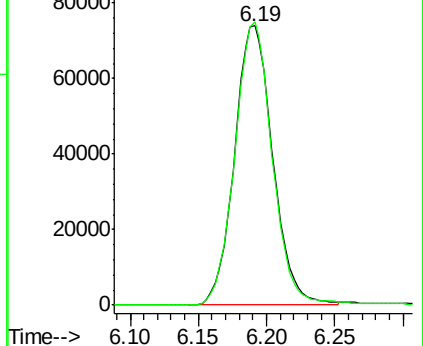
130 100

95 101.4 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024938.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU024938.D (-1649) (-)



#50

Toluene-d8

Concen: 48.100 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024938.D

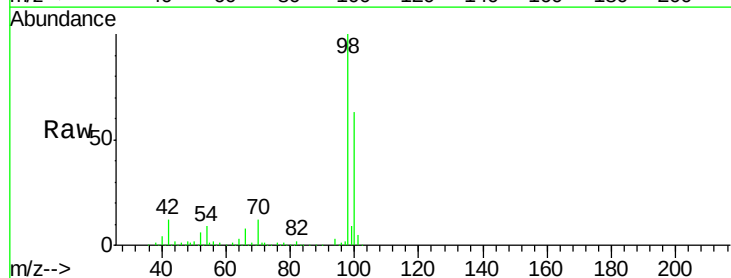
Acq: 26 Jun 2018 22:45

Tgt Ion: 98 Resp: 450901

Ion Ratio Lower Upper

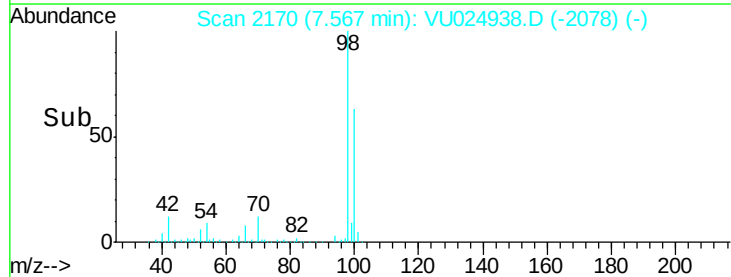
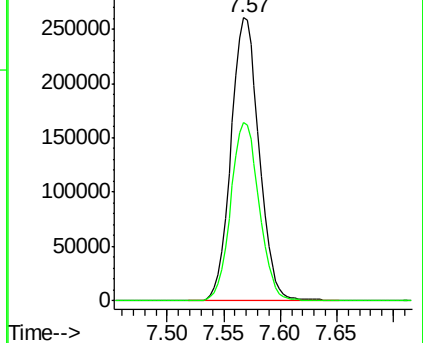
98 100

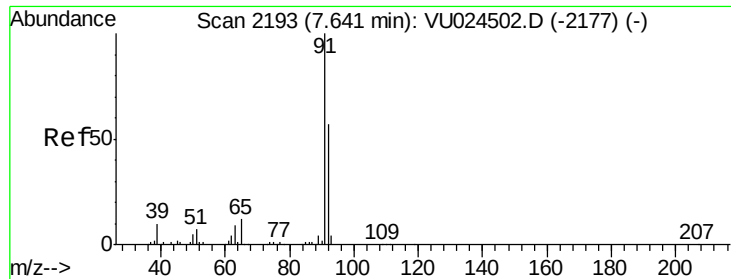
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024938.D (-2078) (-)

Ion 100.00 (99.70 to 100.70): VU024938.D (-2078) (-)





#52

Toluene

Concen: 0.690 ug/l

RT: 7.64 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Instrument :

MSVOA_U

ClientSampleId :

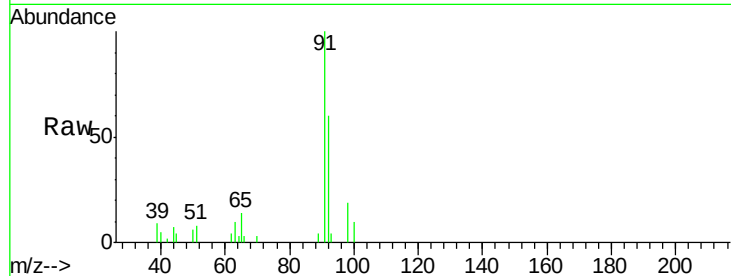
DUP-0483-180620ME

Tgt Ion: 92 Resp: 4602

Ion Ratio Lower Upper

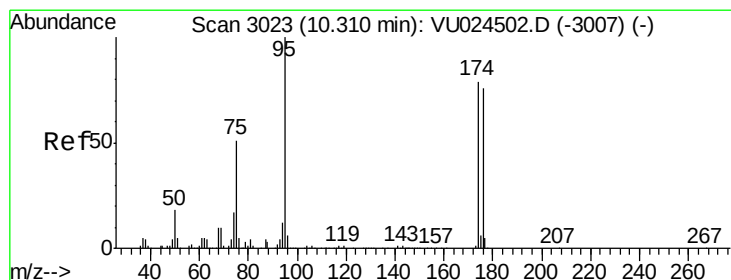
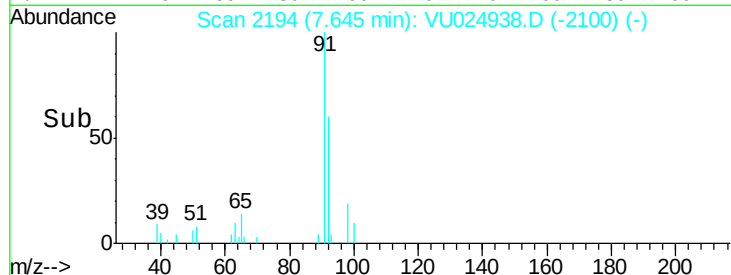
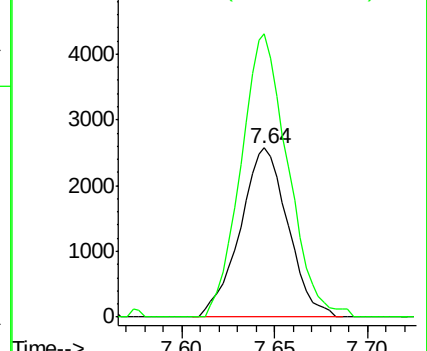
92 100

91 164.2 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



#62

4-Bromofluorobenzene

Concen: 45.492 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

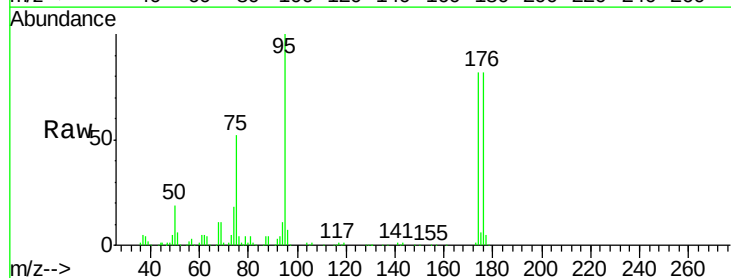
Tgt Ion: 95 Resp: 169321

Ion Ratio Lower Upper

95 100

174 83.4 0.0 165.8

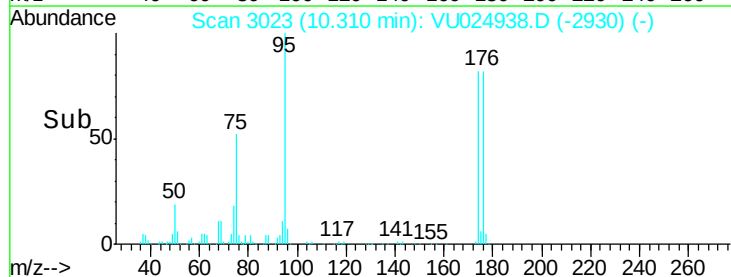
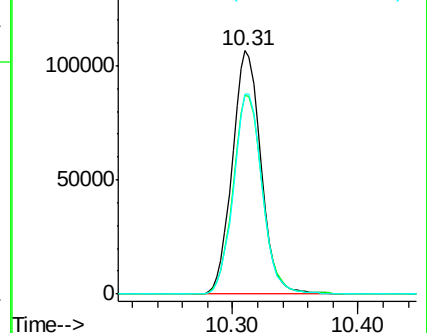
176 82.2 0.0 159.4

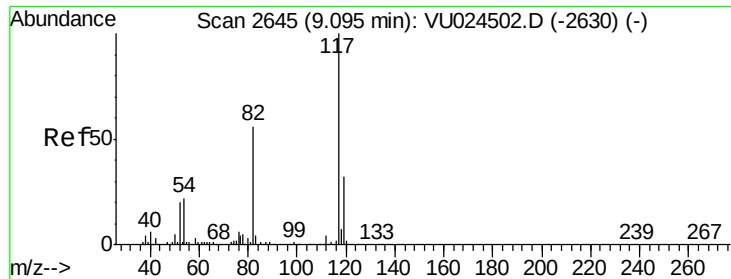


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

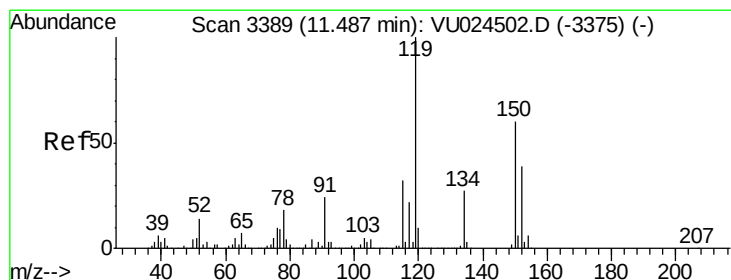
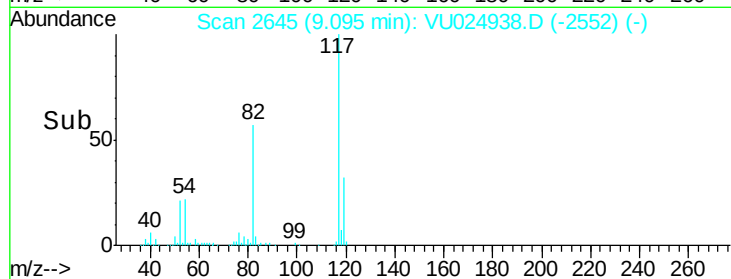
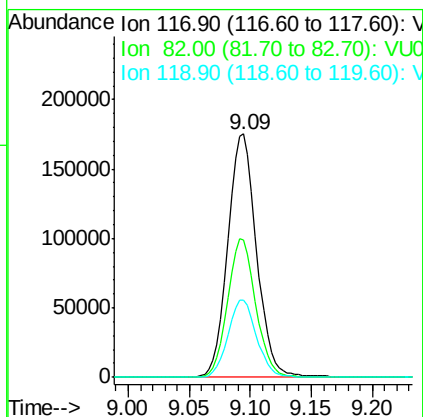
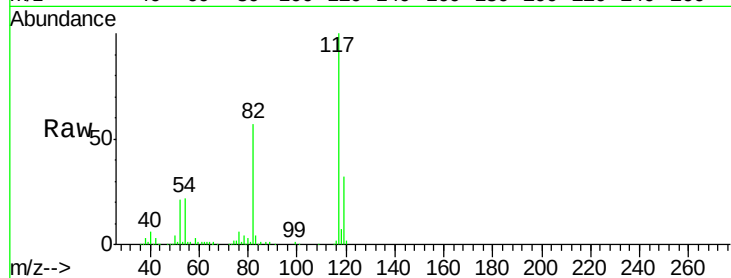




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.09 min Scan# 2645
 Delta R.T. 0.00 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

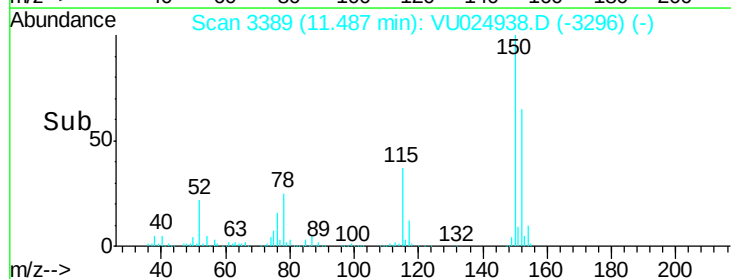
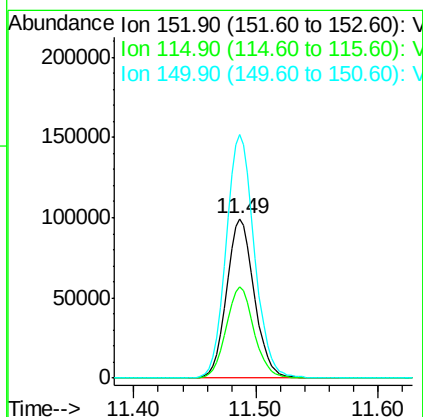
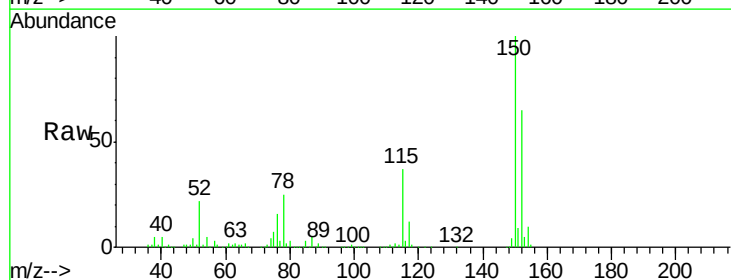
Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0483-180620ME

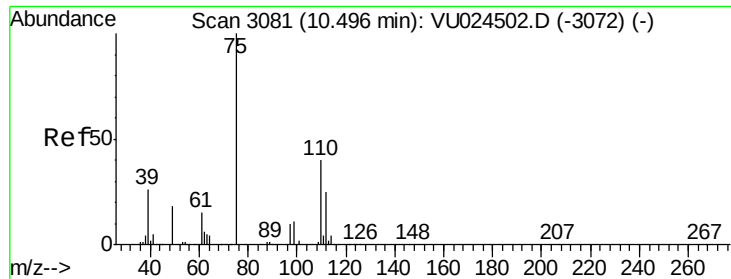
Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.3	66.5
119	32.0	25.4	38.2



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.49 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.0	43.0	129.0
150	156.2	0.0	354.0





#76

1,2,3-Trichloropropane

Concen: 25.639 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

Instrument :

MSVOA_U

ClientSampleId :

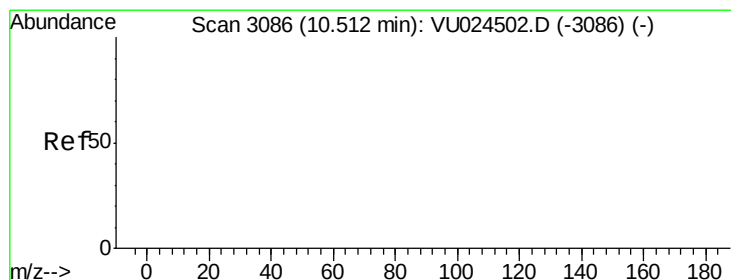
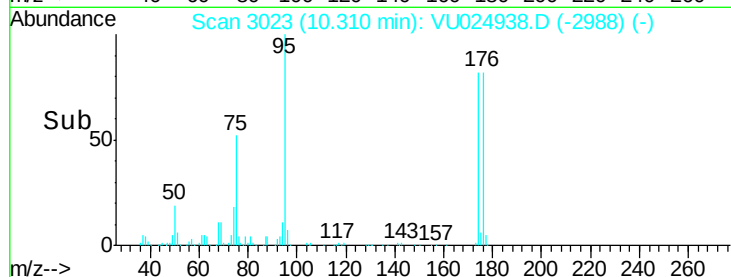
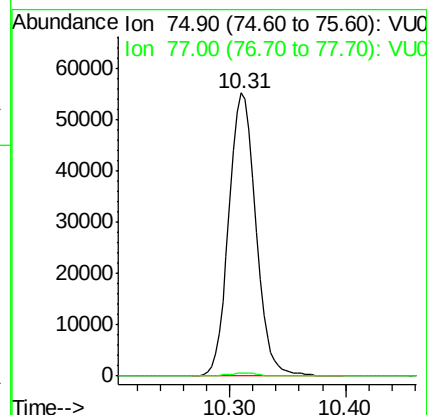
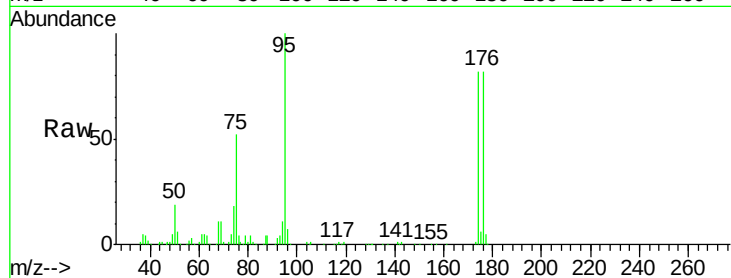
DUP-0483-180620ME

Tgt Ion: 75 Resp: 88962

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.340 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024938.D

Acq: 26 Jun 2018 22:45

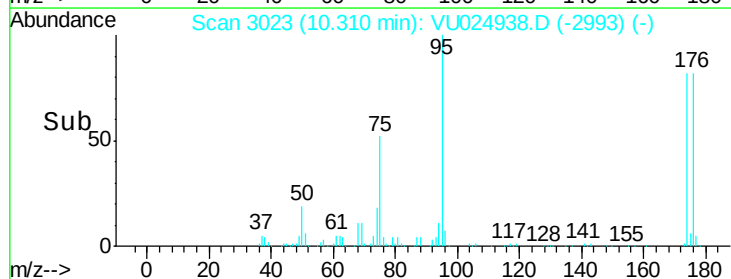
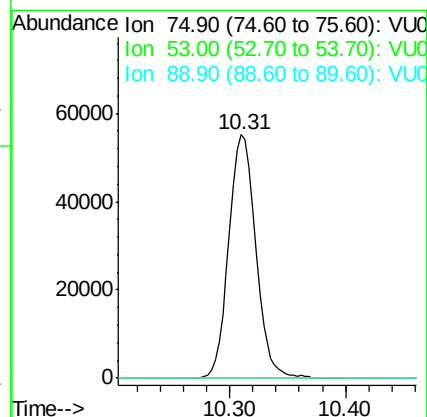
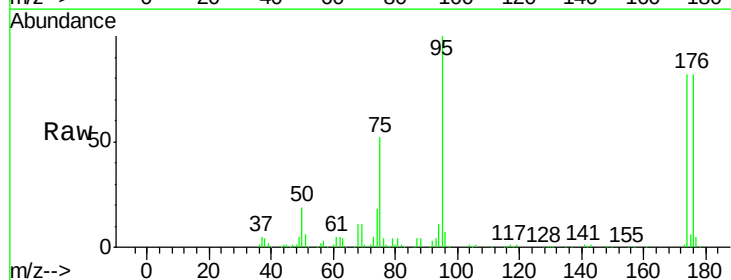
Tgt Ion: 75 Resp: 88962

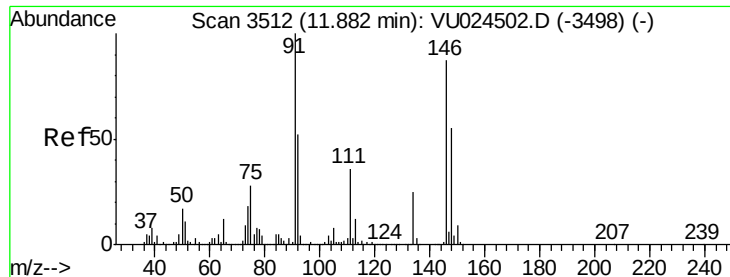
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

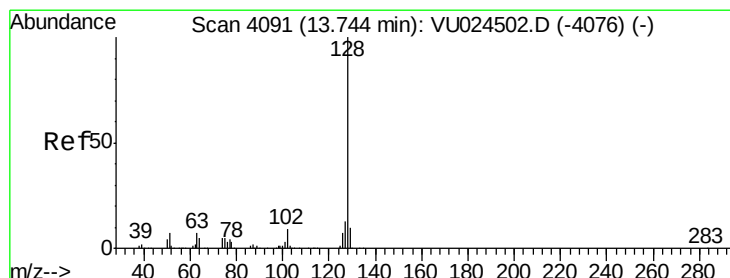
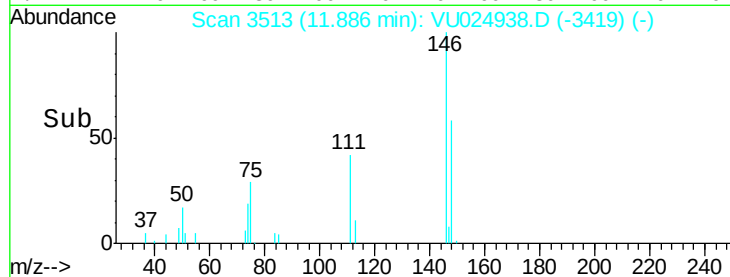
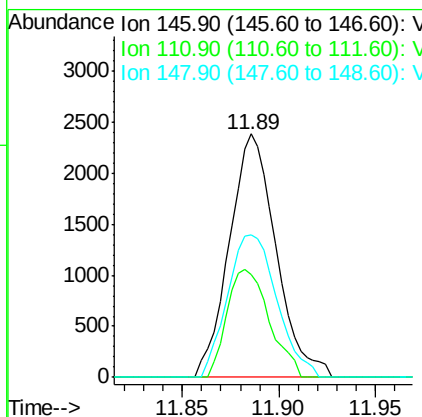
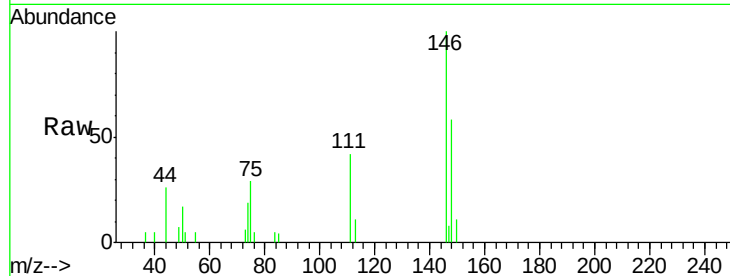




#91
 1,2-Dichlorobenzene
 Concen: 0.706 ug/l
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-0483-180620ME

Tgt Ion:146 Resp: 4002
 Ion Ratio Lower Upper
 146 100
 111 39.9 20.5 61.6
 148 62.2 31.9 95.7



#95
 Naphthalene
 Concen: 0.681 ug/l
 RT: 13.76 min Scan# 4096
 Delta R.T. 0.02 min
 Lab File: VU024938.D
 Acq: 26 Jun 2018 22:45

Tgt Ion:128 Resp: 20
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.6 12.8#

