

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024523.D
 Acq On : 13 Jun 2018 21:14
 Operator : MD/SY
 Sample : J3461-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SB-48(0-5)

Quant Time: Jun 14 02:21:50 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	180919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	309533	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	299710	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	175851	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.32	65	138987	47.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.12%	
35) Dibromofluoromethane	4.89	113	125883	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	
50) Toluene-d8	7.57	98	455692	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
62) 4-Bromofluorobenzene	10.31	95	180144	48.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.84%	

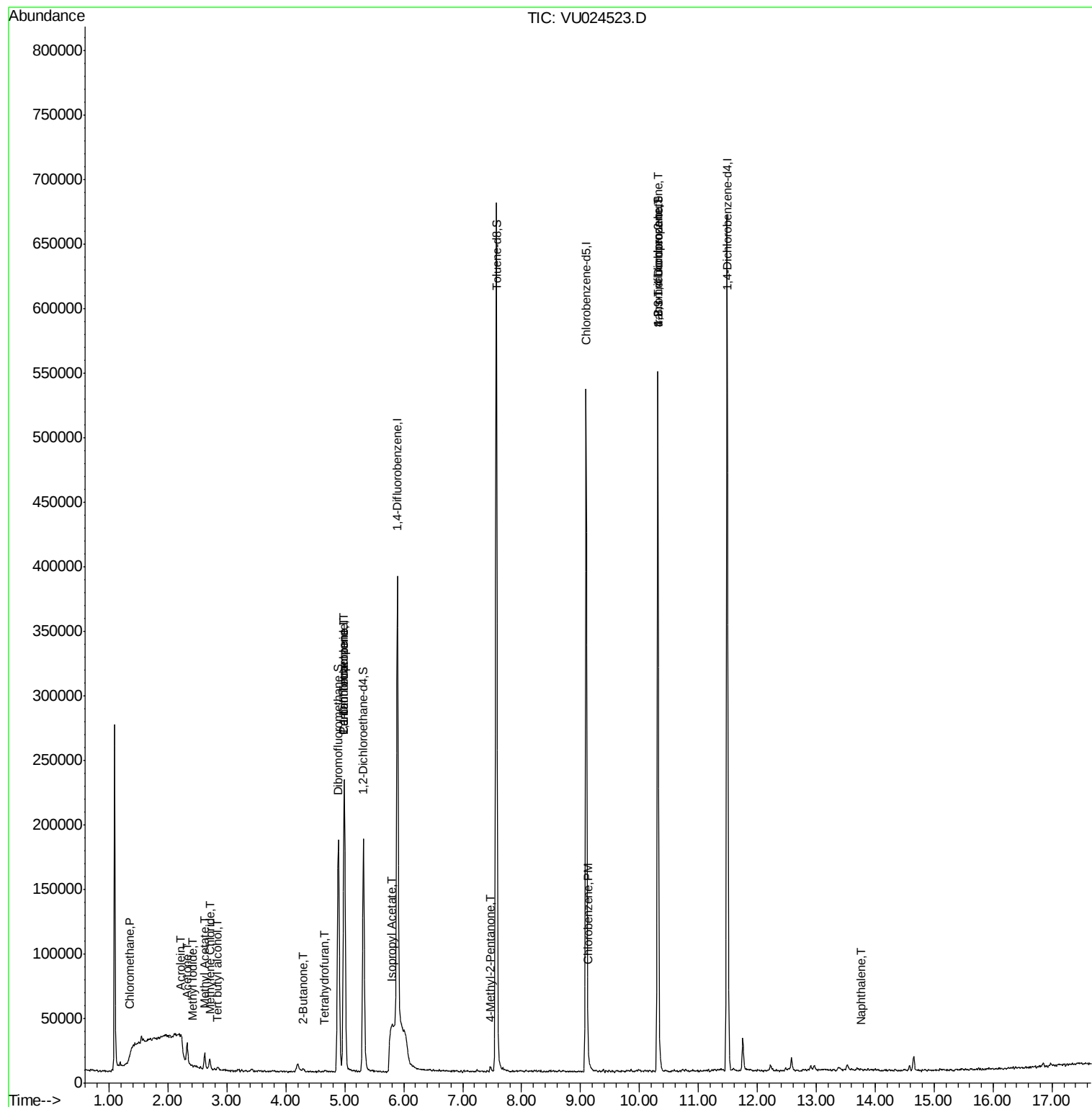
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.34	50	637	0.28	ug/l	90
6) Chloroethane	1.67	64	69	Below	Cal	# 76
8) Diethyl Ether	2.05	74	74	Below	Cal	# 89
10) Methyl Iodide	2.41	142	84	5.33	ug/l	# 40
11) Tert butyl alcohol	2.83	59	594	0.83	ug/l	# 77
13) Acrolein	2.21	56	801	2.12	ug/l	# 13
16) Acetone	2.33	43	16740	10.55	ug/l	98
18) Methyl Acetate	2.62	43	16590	4.88	ug/l	97
20) Methylene Chloride	2.71	84	3391	1.36	ug/l	95
25) 2-Butanone	4.28	43	3098	1.45	ug/l	92
29) Tetrahydrofuran	4.65	42	640	0.48	ug/l	# 51
31) Cyclohexane	4.99	56	3862	Below	Cal	# 1
36) 1,1-Dichloropropene	4.99	75	13300	3.66	ug/l	# 53
38) Carbon Tetrachloride	4.99	117	17342	4.34	ug/l	# 16
43) Isopropyl Acetate	5.79	43	30716	4.48	ug/l	# 64
51) 4-Methyl-2-Pentanone	7.47	43	2787	0.65	ug/l	89
65) Chlorobenzene	9.13	112	2093	0.27	ug/l	89
76) 1,2,3-Trichloropropane	10.31	75	90045	23.26	ug/l	# 34
81) trans-1,4-Dichloro-2-buten	10.31	75	90045	53.83	ug/l	# 100
95) Naphthalene	13.77	128	538	0.72	ug/l	# 96

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

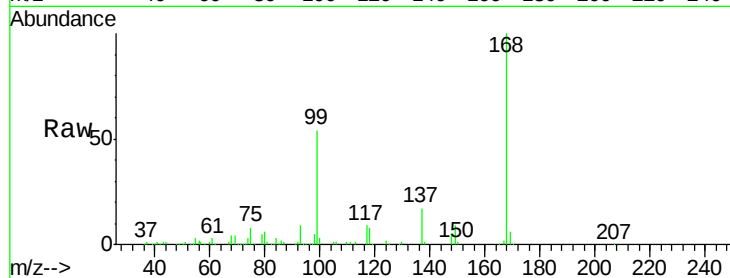
SB-48(0-5)

Tgt Ion:168 Resp: 180919

Ion Ratio Lower Upper

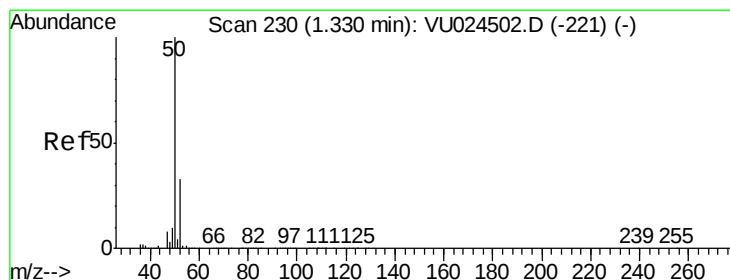
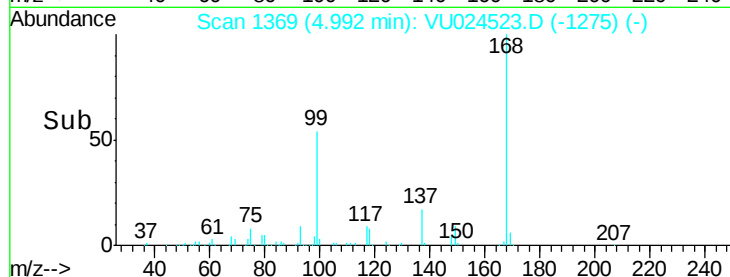
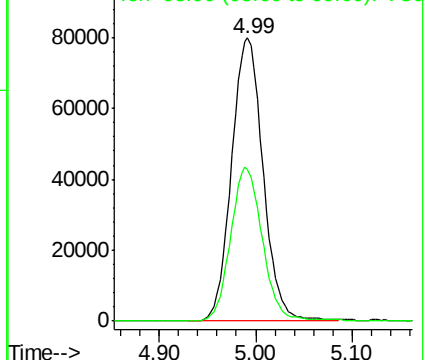
168 100

99 53.7 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#3

Chloromethane

Concen: 0.28 ug/l

RT: 1.34 min Scan# 234

Delta R.T. 0.01 min

Lab File: VU024523.D

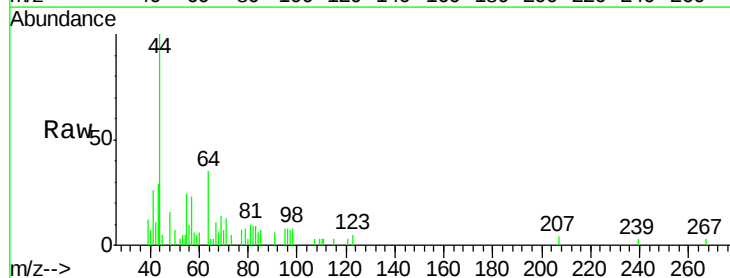
Acq: 13 Jun 2018 21:14

Tgt Ion: 50 Resp: 637

Ion Ratio Lower Upper

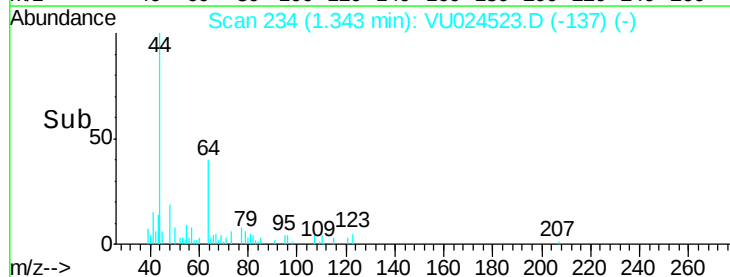
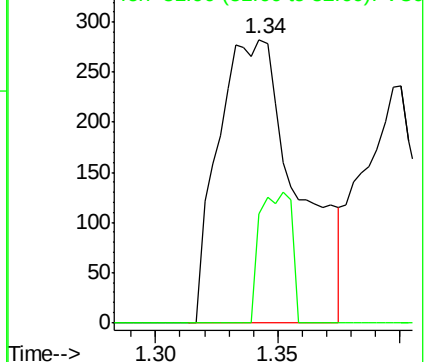
50 100

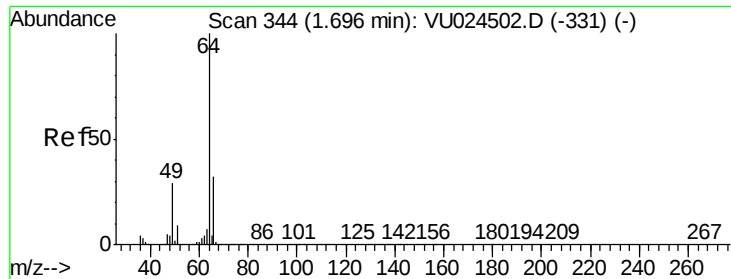
52 38.5 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 336

Delta R.T. -0.03 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

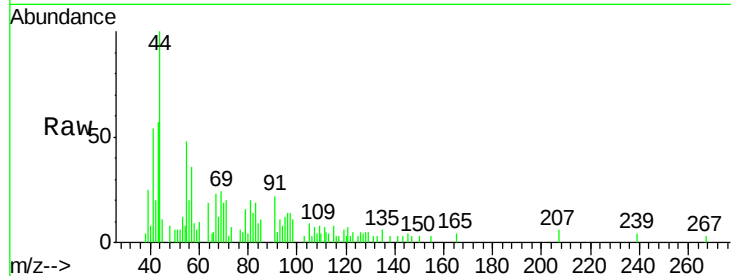
SB-48(0-5)

Tgt Ion: 64 Resp: 69

Ion Ratio Lower Upper

64 100

66 18.8 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.67

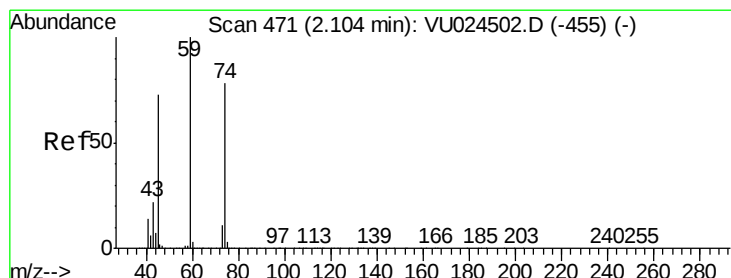
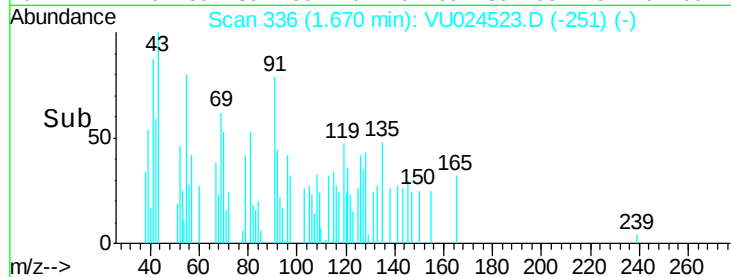
600

400

200

0

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.05 min Scan# 454

Delta R.T. -0.05 min

Lab File: VU024523.D

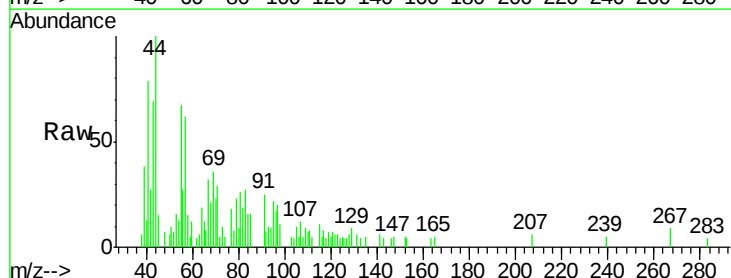
Acq: 13 Jun 2018 21:14

Tgt Ion: 74 Resp: 74

Ion Ratio Lower Upper

74 100

45 98.6 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

500

400

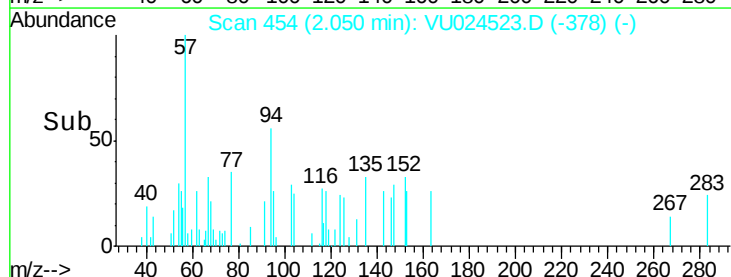
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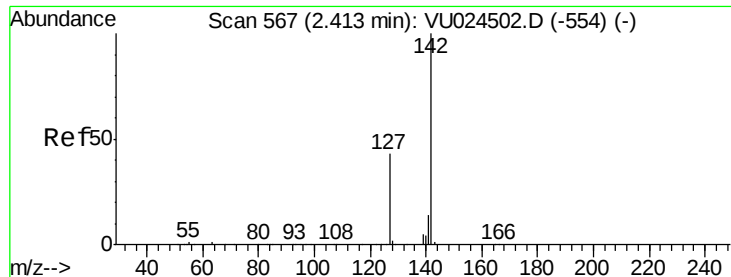
200

100

0

Time-->

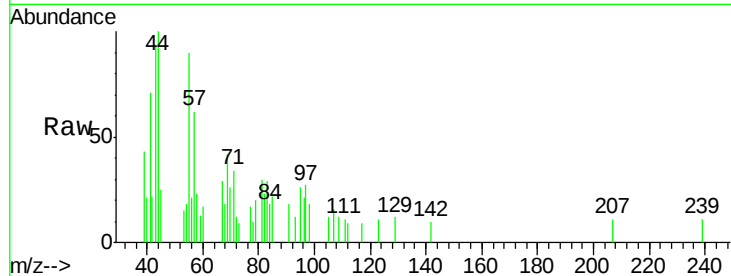




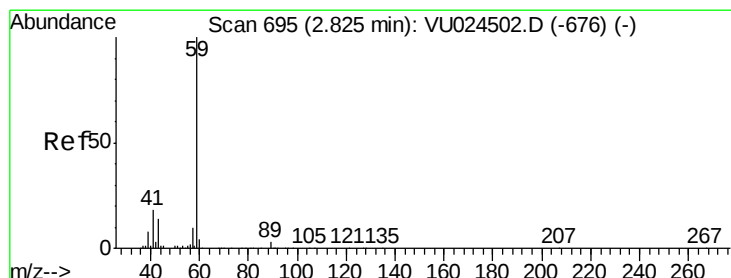
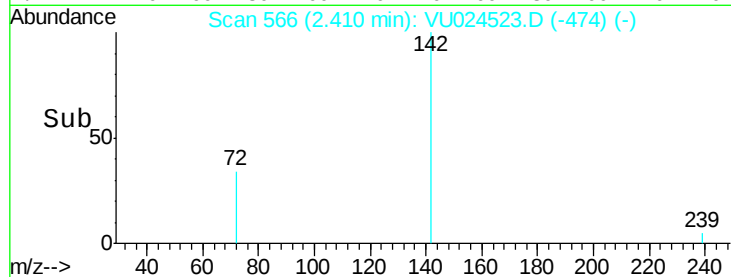
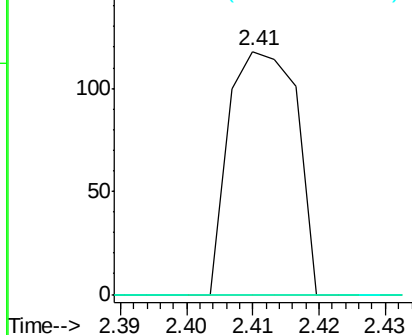
#10
Methyl Iodide
Concen: 5.33 ug/l
RT: 2.41 min Scan# 566
Delta R.T. -0.00 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

Instrument :
MSVOA_U
ClientSampleId :
SB-48(0-5)

Tgt Ion:142 Resp: 84
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#

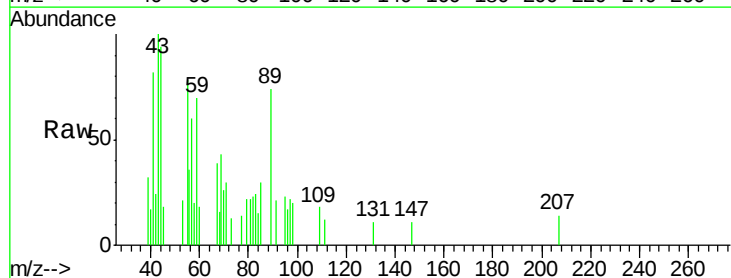


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

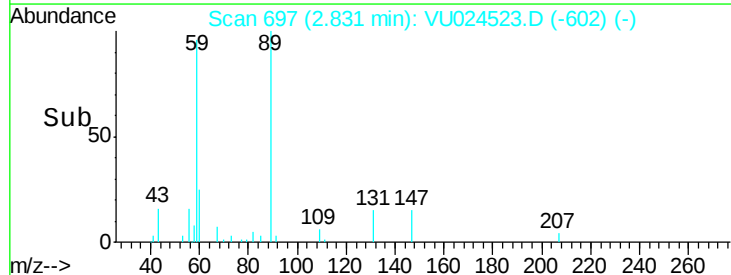
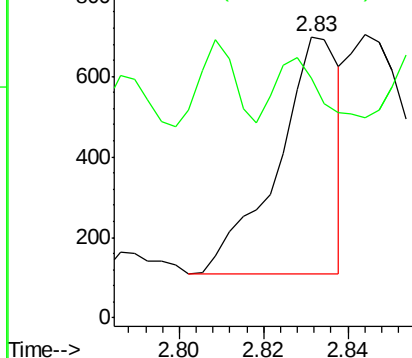


#11
Tert butyl alcohol
Concen: 0.83 ug/l
RT: 2.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

Tgt Ion: 59 Resp: 594
Ion Ratio Lower Upper
59 100
57 19.4 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 2.12 ug/l

RT: 2.21 min Scan# 505

Delta R.T. 0.02 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

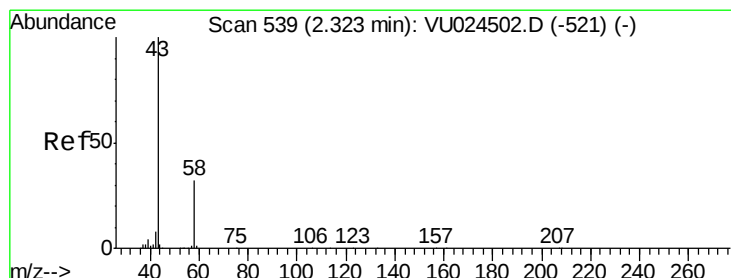
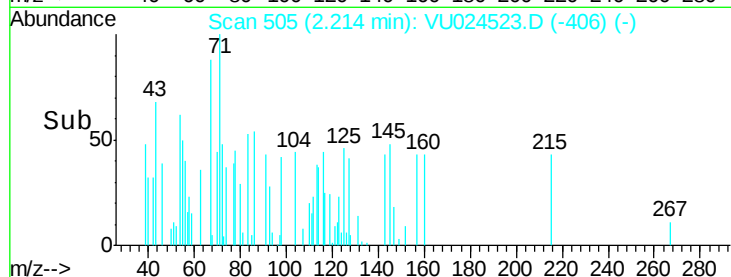
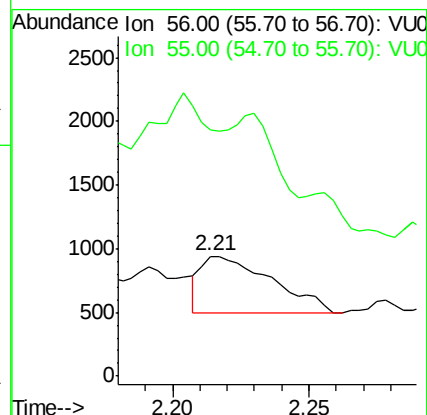
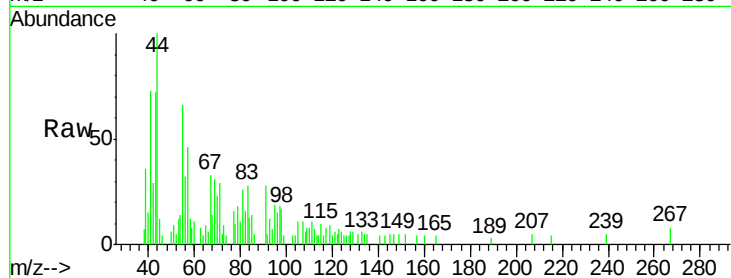
SB-48(0-5)

Tgt Ion: 56 Resp: 801

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#16

Acetone

Concen: 10.55 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024523.D

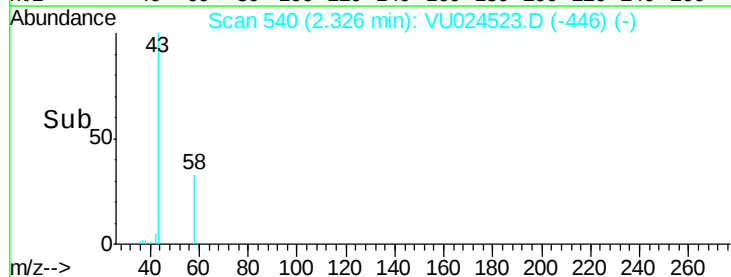
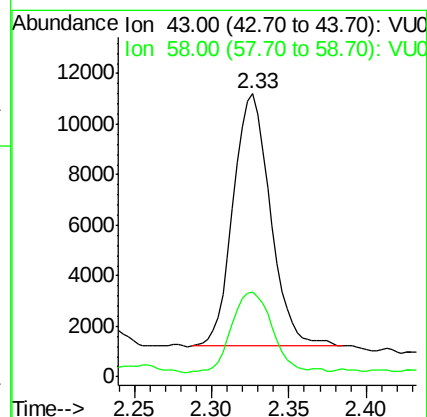
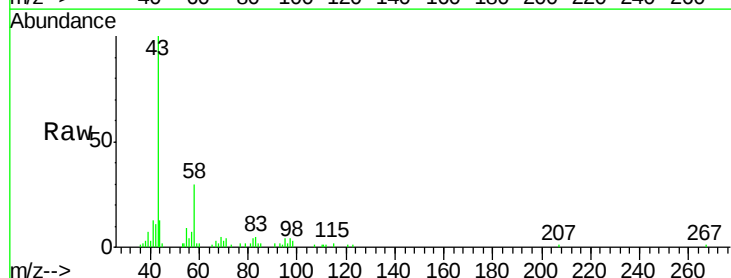
Acq: 13 Jun 2018 21:14

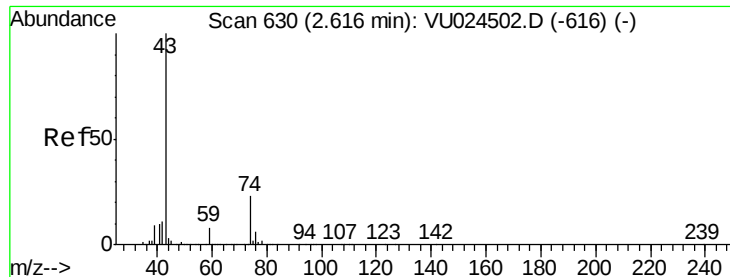
Tgt Ion: 43 Resp: 16740

Ion Ratio Lower Upper

43 100

58 31.4 24.4 36.6

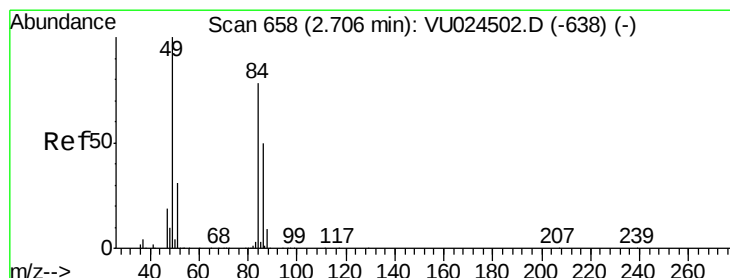
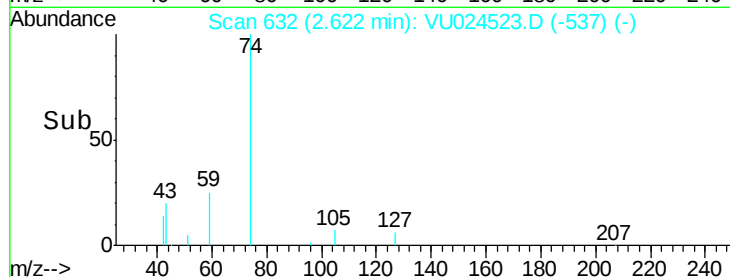
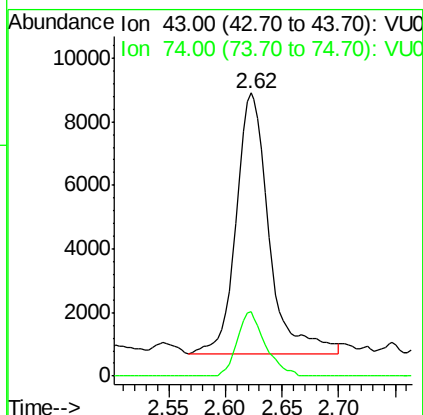
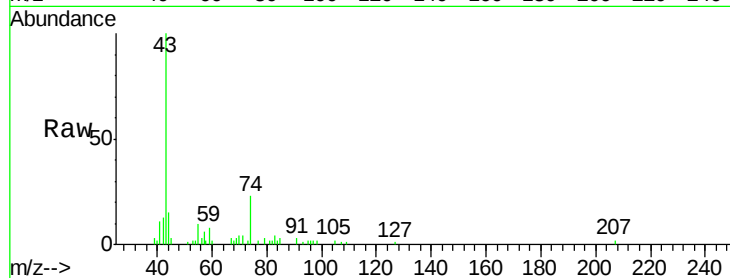




#18
Methyl Acetate
Concen: 4.88 ug/l
RT: 2.62 min Scan# 632
Delta R.T. 0.01 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

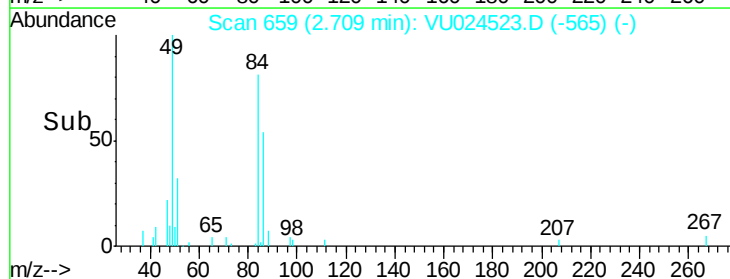
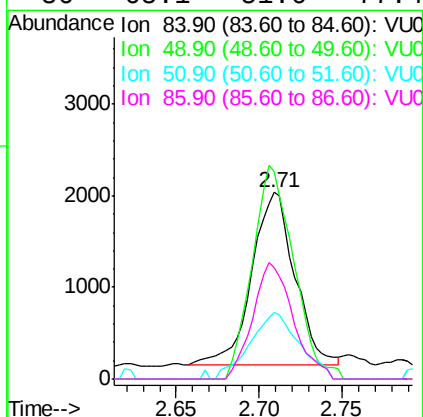
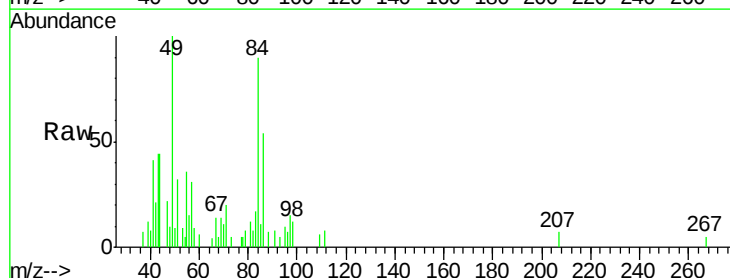
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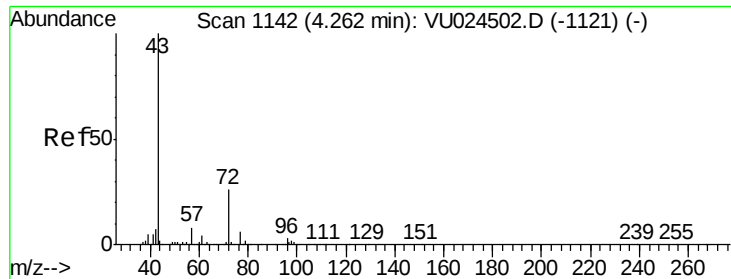
Tgt Ion: 43 Resp: 16590
Ion Ratio Lower Upper
43 100
74 21.1 18.0 27.0



#20
Methylene Chloride
Concen: 1.36 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.00 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

Tgt Ion: 84 Resp: 3391
Ion Ratio Lower Upper
84 100
49 120.4 103.8 155.8
51 38.5 32.0 48.0
86 65.1 51.6 77.4

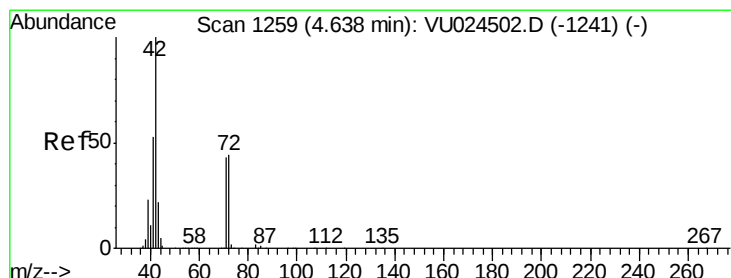
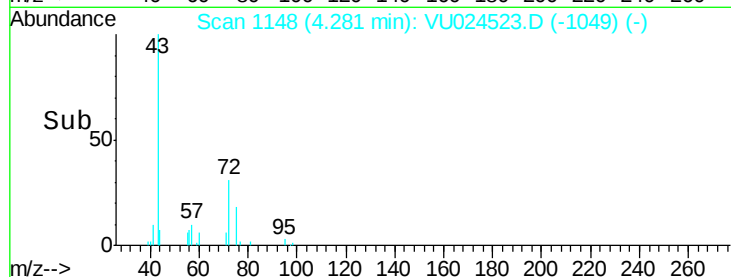
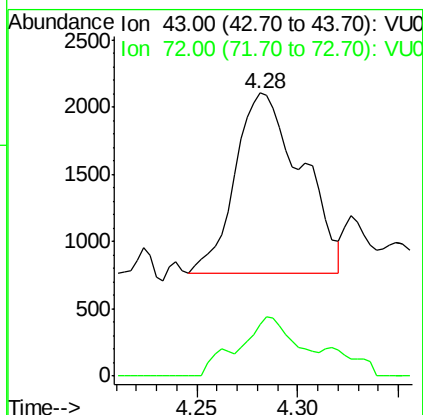
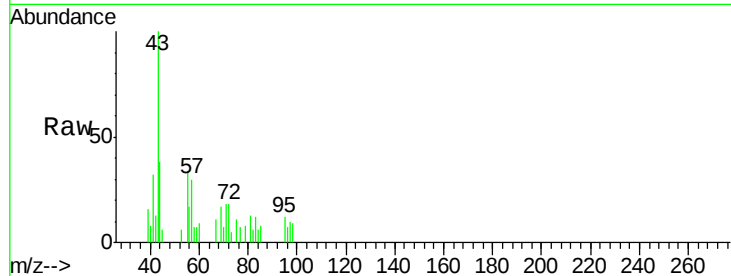




#25
2-Butanone
Concen: 1.45 ug/l
RT: 4.28 min Scan# 1148
Delta R.T. 0.02 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

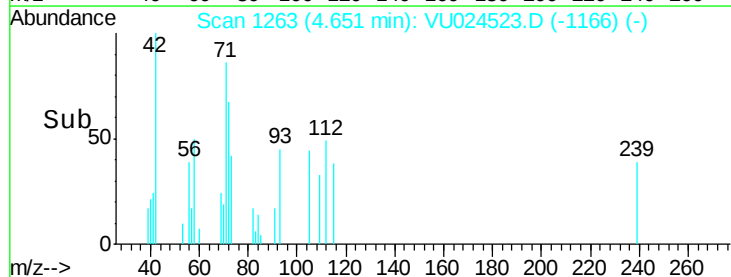
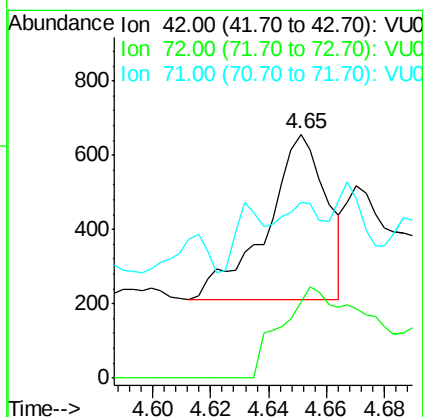
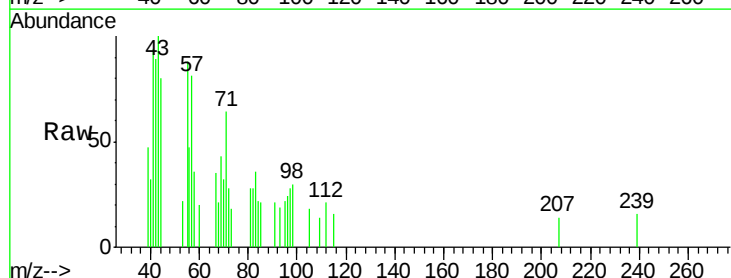
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SB-48(0-5)

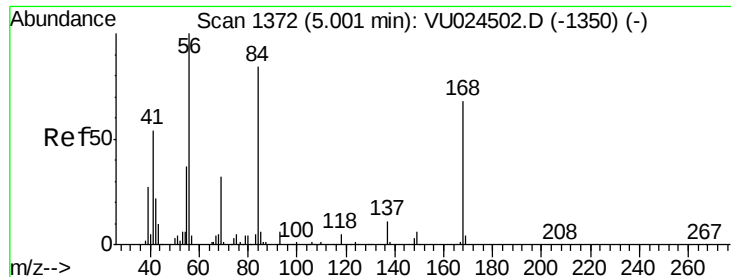
Tgt Ion: 43 Resp: 3098
Ion Ratio Lower Upper
43 100
72 28.7 19.6 29.4



#29
Tetrahydrofuran
Concen: 0.48 ug/l
RT: 4.65 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

Tgt Ion: 42 Resp: 640
Ion Ratio Lower Upper
42 100
72 78.4 34.5 51.7#
71 14.1 32.2 48.4#

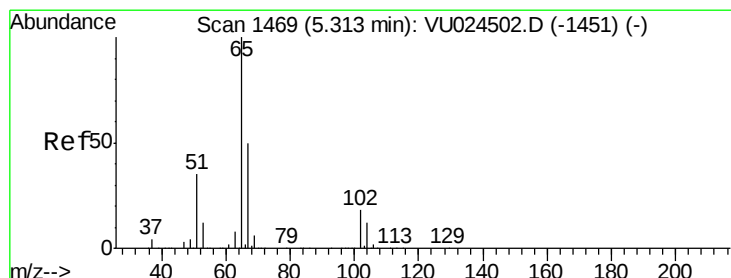
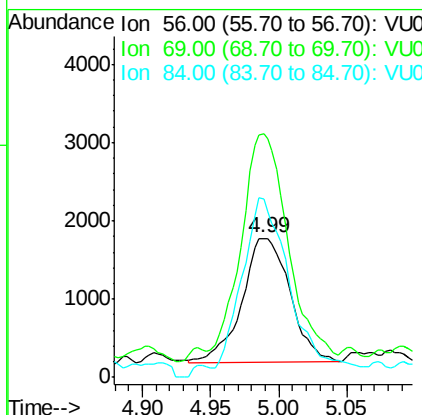
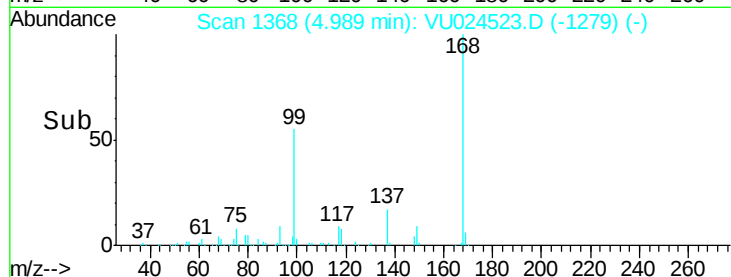
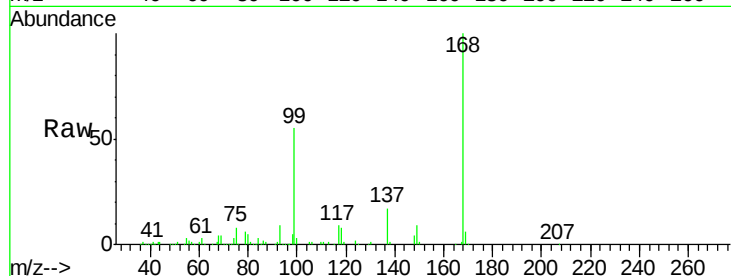




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

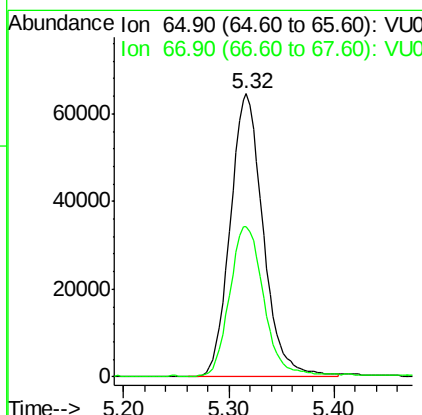
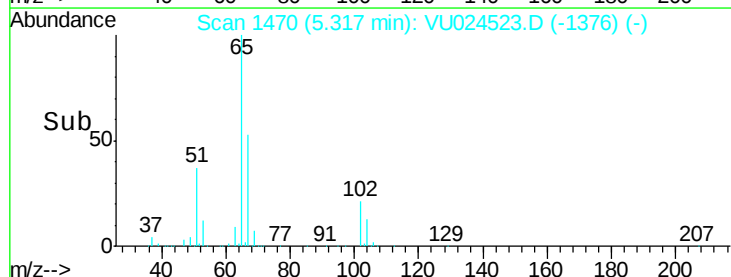
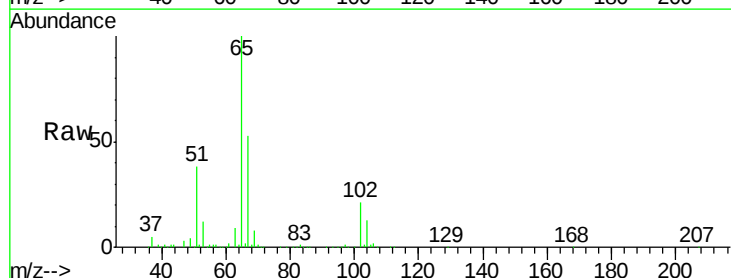
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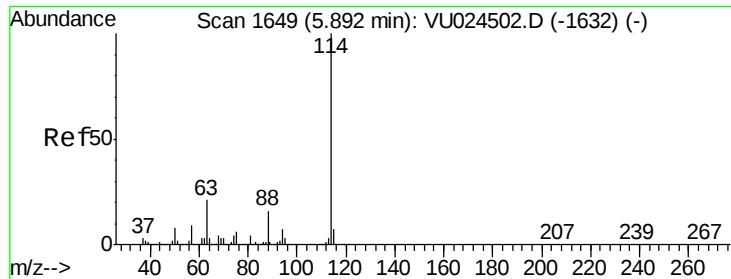
Tgt Ion: 56 Resp: 3862
Ion Ratio Lower Upper
56 100
69 178.8 24.8 37.2#
84 144.5 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 47.06 ug/l
RT: 5.32 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

Tgt Ion: 65 Resp: 138987
Ion Ratio Lower Upper
65 100
67 54.2 0.0 107.0

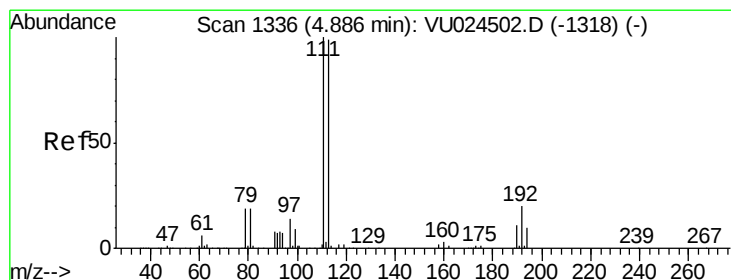
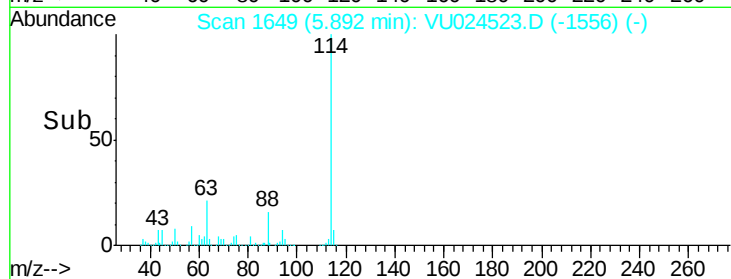
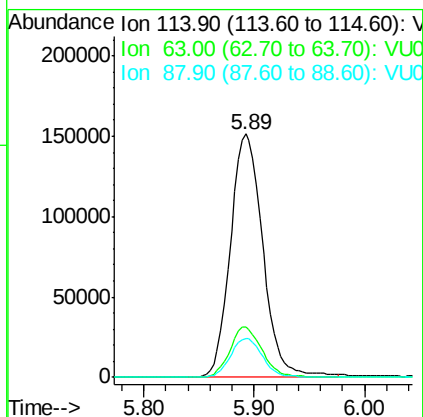
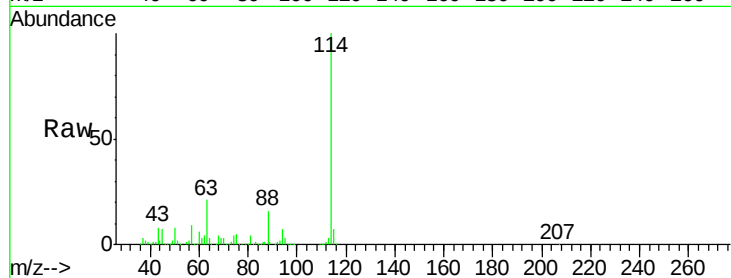




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024523.D
 Acq: 13 Jun 2018 21:14

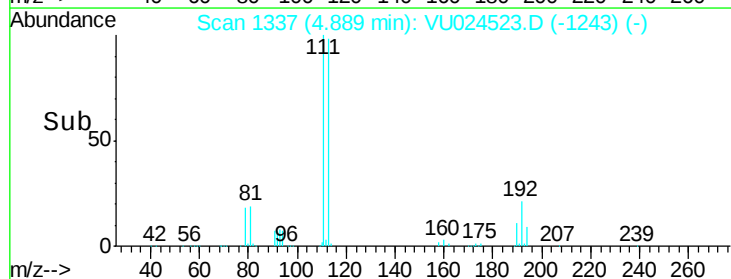
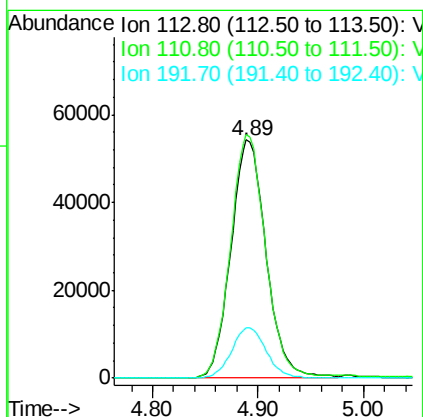
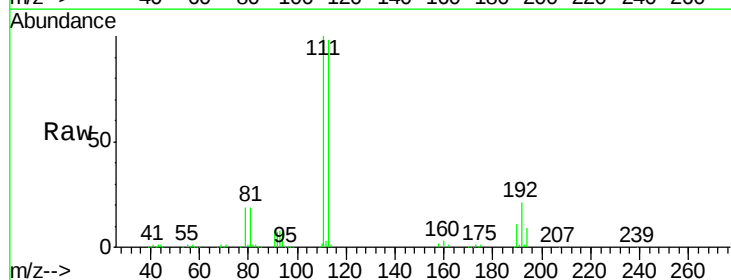
Instrument :
 MSVOA_U
 ClientSampleId :
 SB-48(0-5)

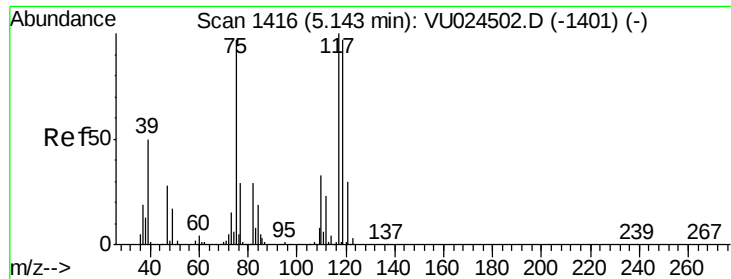
Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	45.4
88	16.1	0.0	31.0



#35
 Dibromofluoromethane
 Concen: 49.00 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024523.D
 Acq: 13 Jun 2018 21:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.2	123.4
192	21.0	16.2	24.4





#36

1,1-Dichloropropene

Concen: 3.66 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

SB-48(0-5)

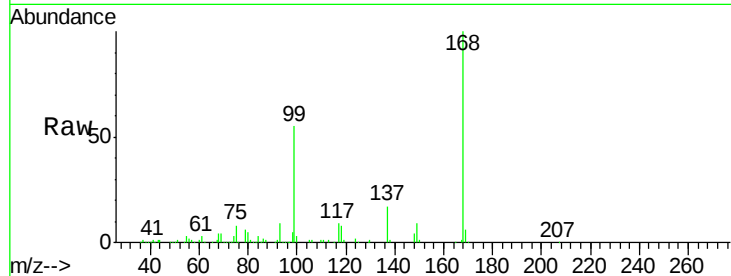
Tgt Ion: 75 Resp: 13300

Ion Ratio Lower Upper

75 100

110 11.7 17.0 50.9#

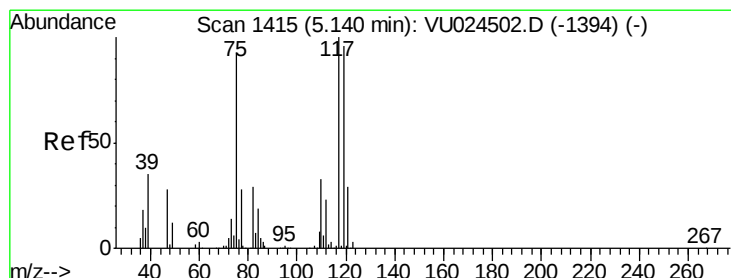
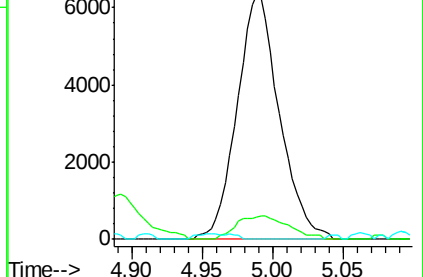
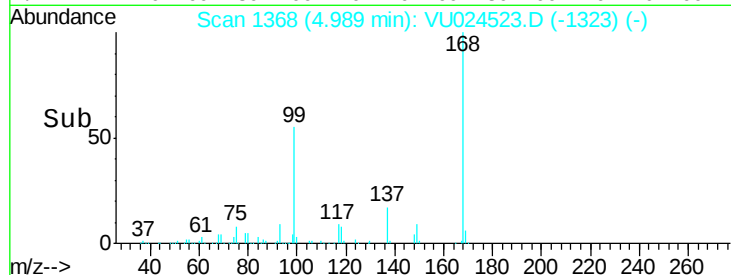
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU024523.D (-1323) (-)

Ion 109.90 (109.60 to 110.60): VU024523.D (-1323) (-)

Ion 76.90 (76.60 to 77.60): VU024523.D (-1323) (-)



#38

Carbon Tetrachloride

Concen: 4.34 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

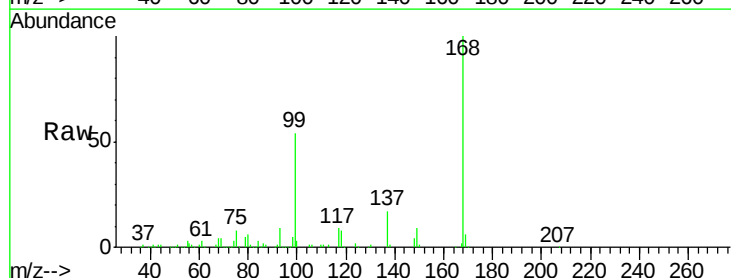
Tgt Ion: 117 Resp: 17342

Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

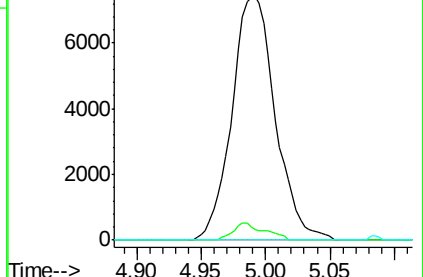
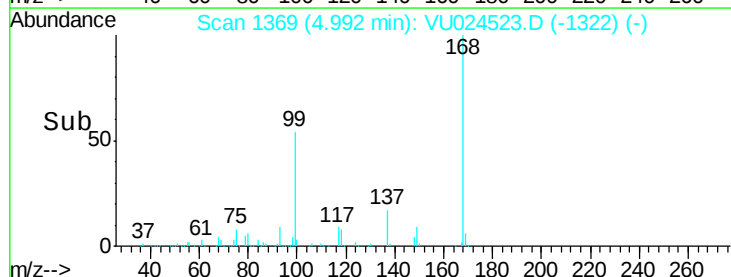
121 0.0 23.7 35.5#

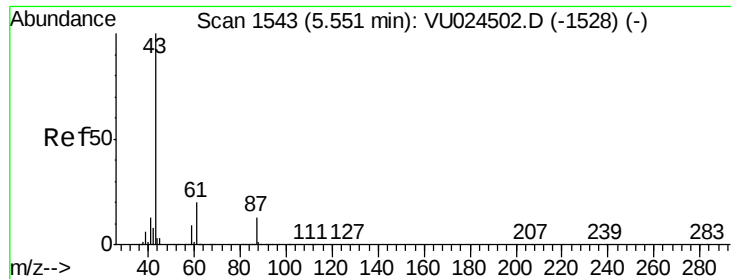


Abundance Ion 116.80 (116.50 to 117.50): VU024523.D (-1322) (-)

Ion 118.80 (118.50 to 119.50): VU024523.D (-1322) (-)

Ion 120.80 (120.50 to 121.50): VU024523.D (-1322) (-)





#43

Isopropyl Acetate

Concen: 4.48 ug/l

RT: 5.79 min Scan# 1616

Delta R.T. 0.23 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

SB-48(0-5)

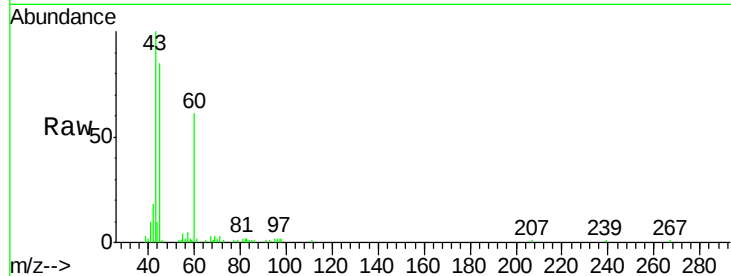
Tgt Ion: 43 Resp: 30716

Ion Ratio Lower Upper

43 100

61 1.5 15.4 23.0#

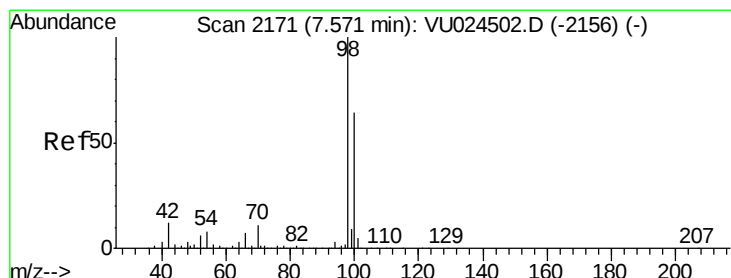
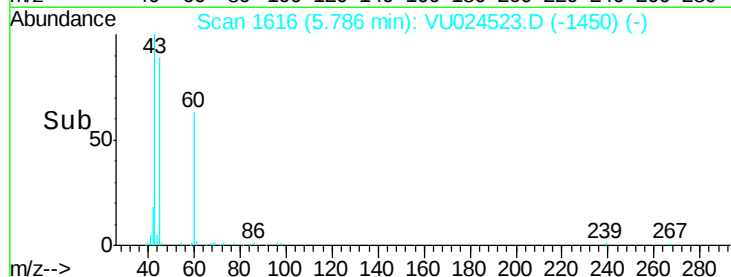
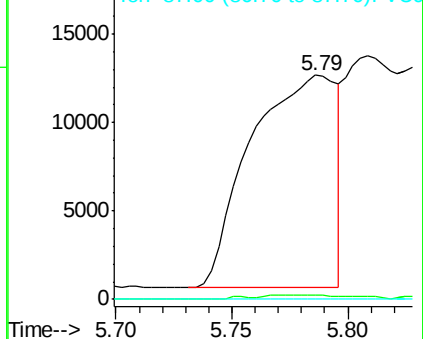
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#50

Toluene-d8

Concen: 48.63 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU024523.D

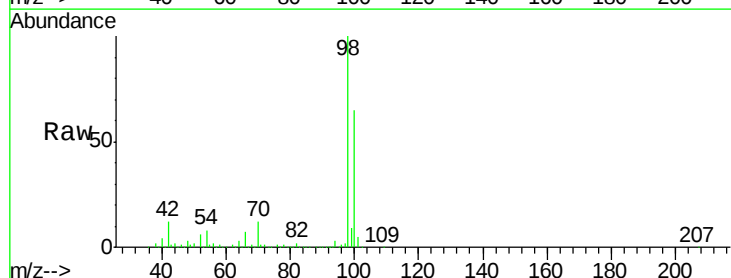
Acq: 13 Jun 2018 21:14

Tgt Ion: 98 Resp: 455692

Ion Ratio Lower Upper

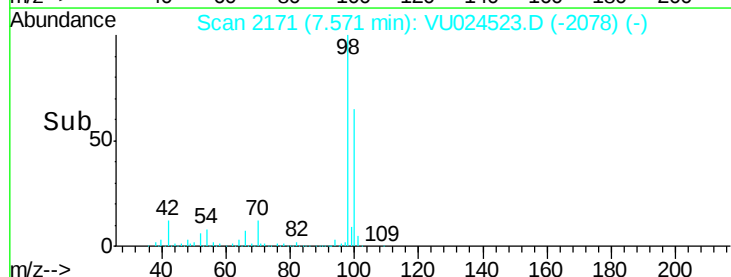
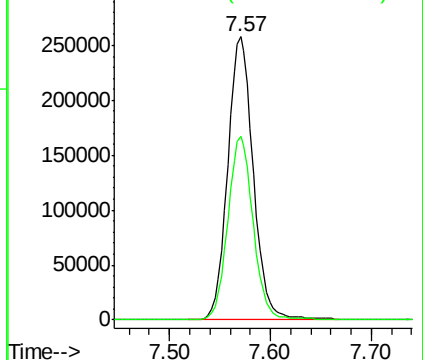
98 100

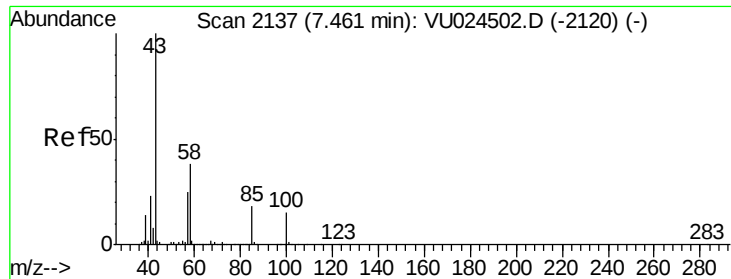
100 64.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 0.65 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

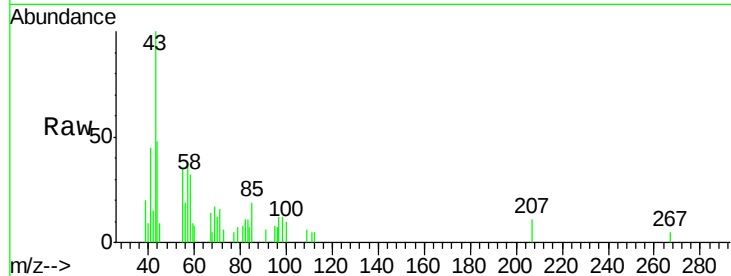
SB-48(0-5)

Tgt Ion: 43 Resp: 2787

Ion Ratio Lower Upper

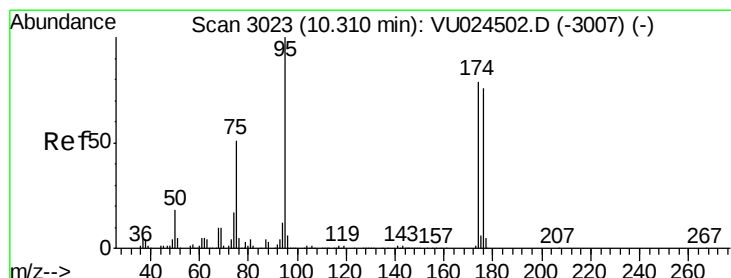
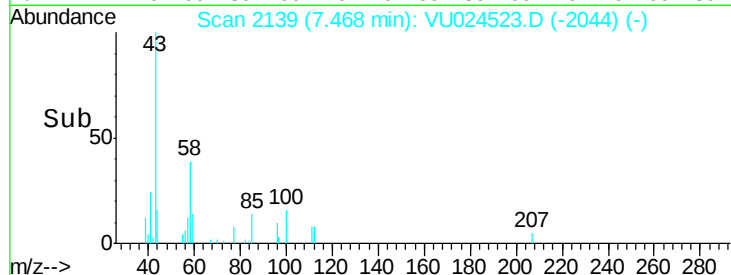
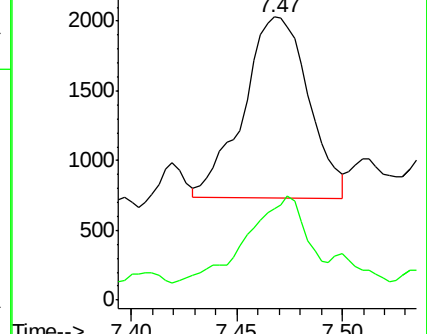
43 100

58 44.3 30.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#62

4-Bromofluorobenzene

Concen: 48.42 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

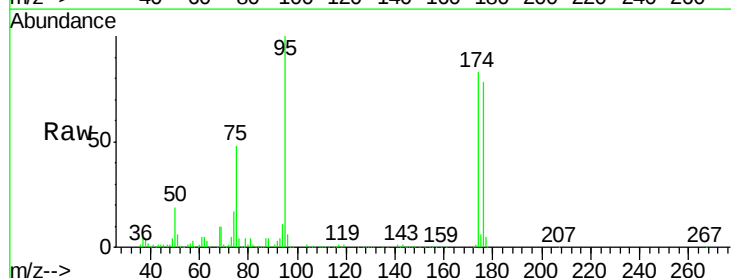
Tgt Ion: 95 Resp: 180144

Ion Ratio Lower Upper

95 100

174 83.1 0.0 165.8

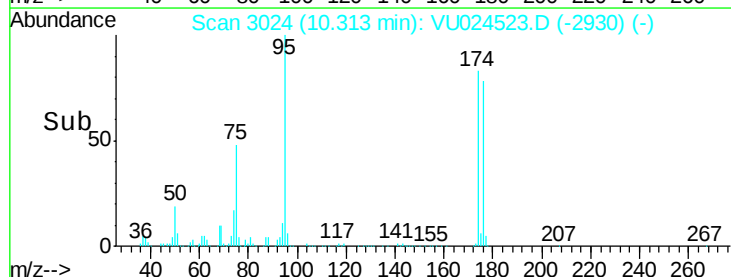
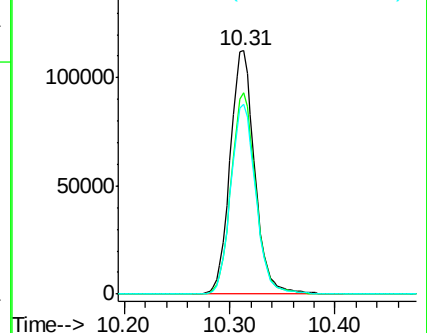
176 79.7 0.0 159.4

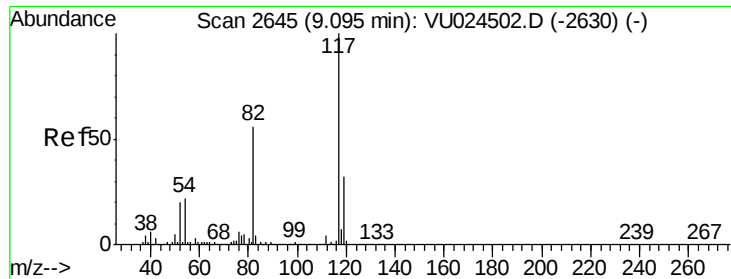


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

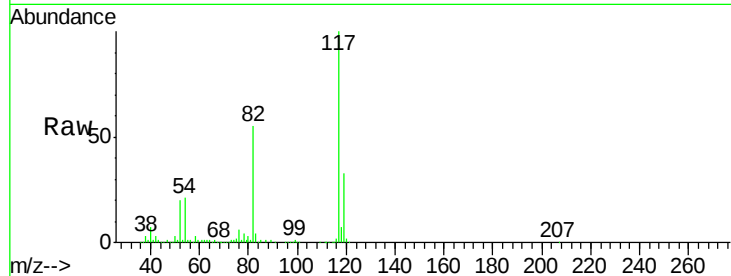




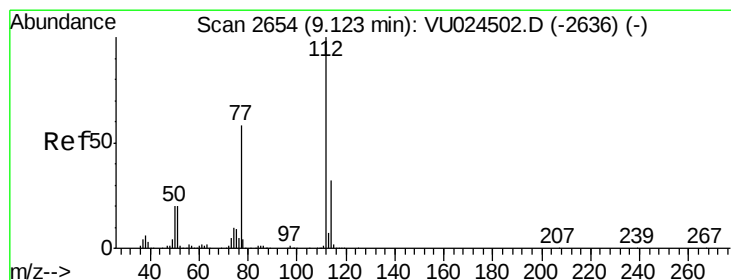
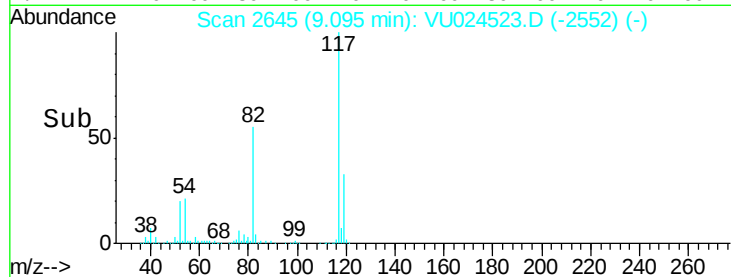
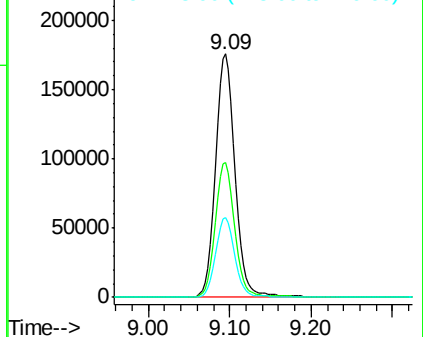
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

Instrument :
MSVOA_U
ClientSampleId :
SB-48(0-5)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.3	44.3	66.5
119	32.8	25.4	38.2

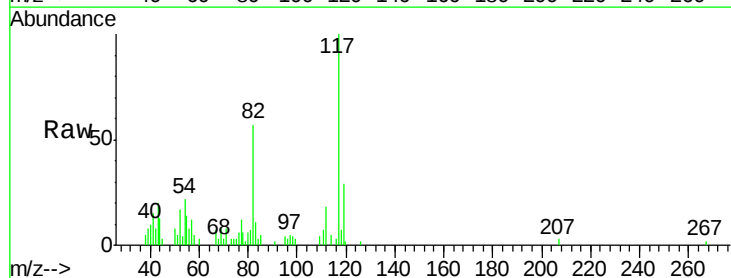


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

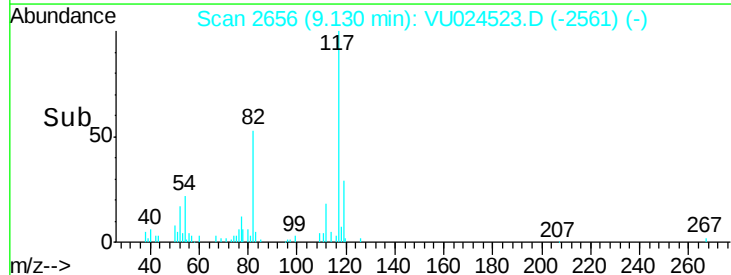
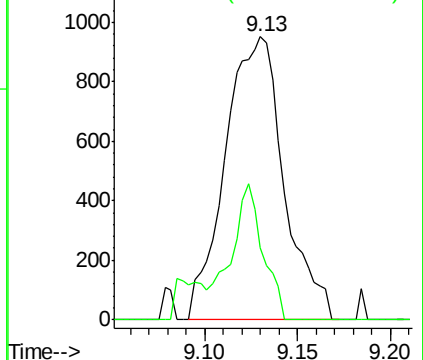


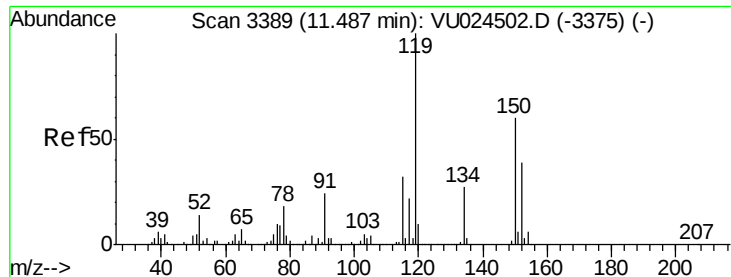
#65
Chlorobenzene
Concen: 0.27 ug/l
RT: 9.13 min Scan# 2656
Delta R.T. 0.01 min
Lab File: VU024523.D
Acq: 13 Jun 2018 21:14

Tgt Ion	Ratio	Lower	Upper
112	100		
114	25.7	25.6	38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024523.D

Acq: 13 Jun 2018 21:14

Instrument :

MSVOA_U

ClientSampleId :

SB-48(0-5)

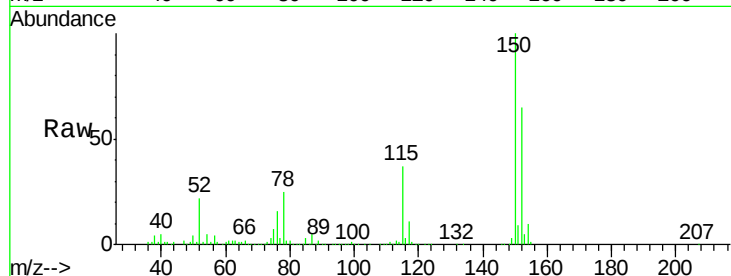
Tgt Ion:152 Resp: 175851

Ion Ratio Lower Upper

152 100

115 58.2 43.0 129.0

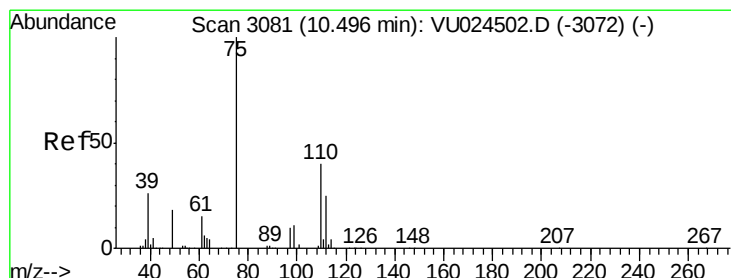
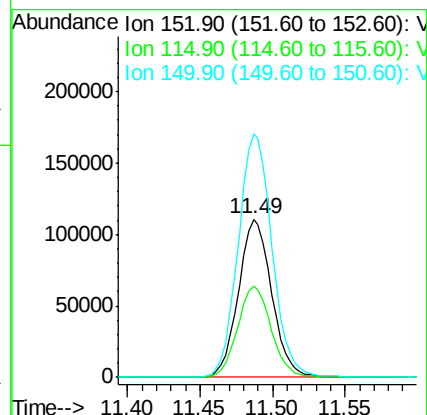
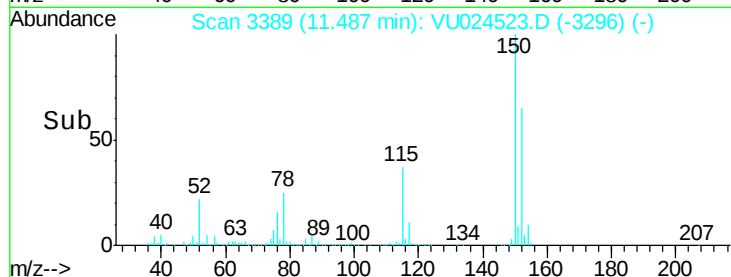
150 156.8 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.26 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024523.D

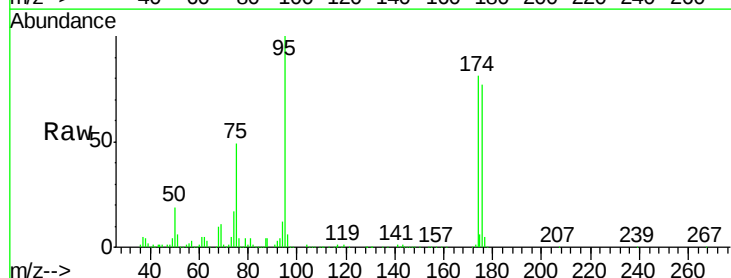
Acq: 13 Jun 2018 21:14

Tgt Ion: 75 Resp: 90045

Ion Ratio Lower Upper

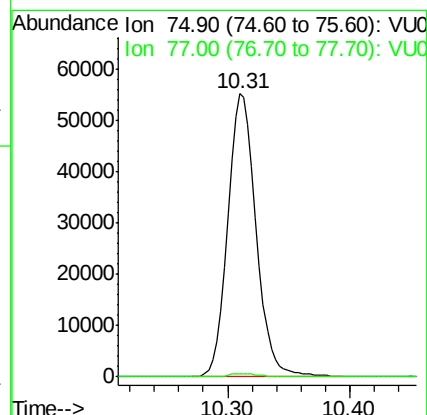
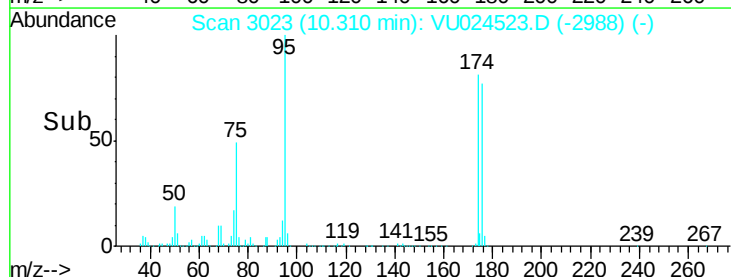
75 100

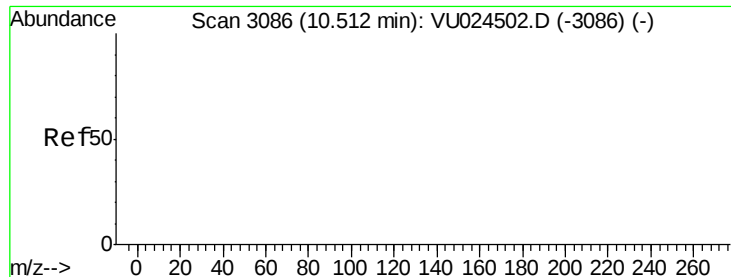
77 0.4 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

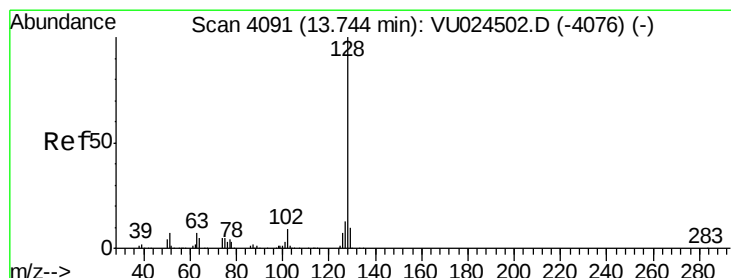
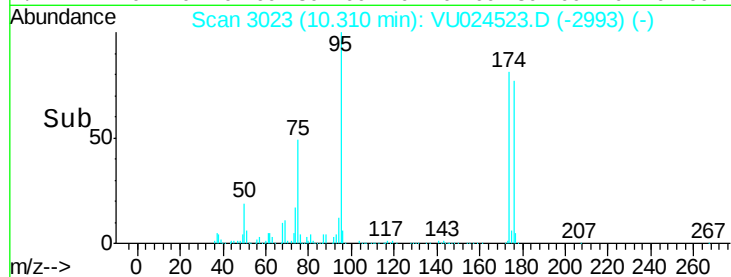
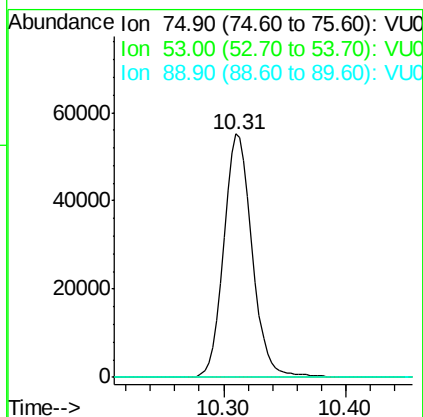
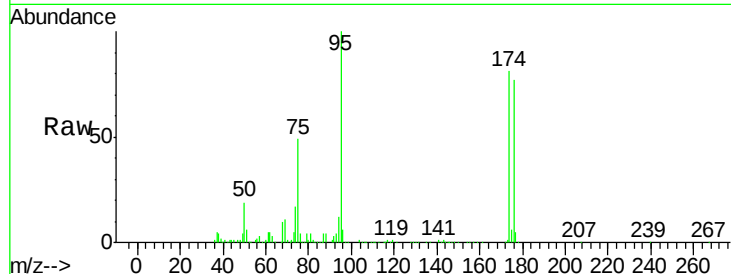




#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.83 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024523.D
 Acq: 13 Jun 2018 21:14

Instrument :
 MSVOA_U
 ClientSampleId :
 SB-48(0-5)

Tgt Ion: 75 Resp: 90045
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0



#95
 Naphthalene
 Concen: 0.72 ug/l
 RT: 13.77 min Scan# 4099
 Delta R.T. 0.03 min
 Lab File: VU024523.D
 Acq: 13 Jun 2018 21:14

Tgt Ion: 128 Resp: 538
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.6 16.0
 129 7.8 8.6 12.8#

