

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062718\
 Data File : VU024935.D
 Acq On : 26 Jun 2018 21:32
 Operator : MD/SY
 Sample : J3669-14ME 20X
 Misc : 5.74g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB483-31-33-180620ME

Quant Time: Jun 27 04:16:04 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	216630	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	327453	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	307596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	160099	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	163302	46.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.36%		
35) Dibromofluoromethane	4.89	113	127469	46.90	ug/l	0.00
Spiked Amount 50.000			Recovery =	93.80%		
50) Toluene-d8	7.57	98	478000	48.22	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.44%		
62) 4-Bromofluorobenzene	10.31	95	177058	44.99	ug/l	0.00
Spiked Amount 50.000			Recovery =	89.98%		

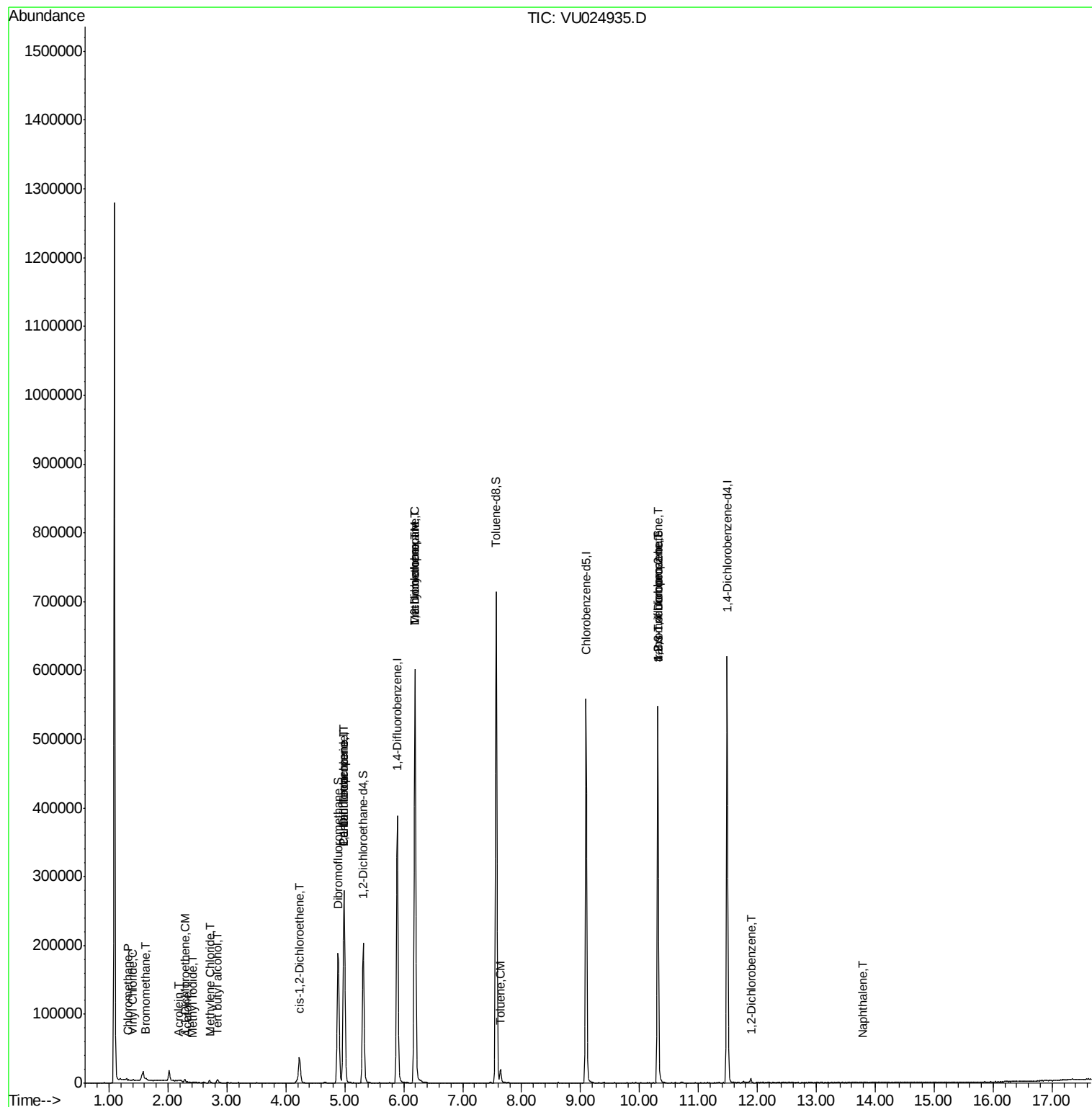
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	768	0.277	ug/l	92
4) Vinyl Chloride	1.40	62	849	0.297	ug/l #	56
5) Bromomethane	1.63	94	643	0.466	ug/l	84
6) Chloroethane	1.63	64	44	Below Cal	#	43
10) Methyl Iodide	2.41	142	308	5.409	ug/l #	54
11) Tert butyl alcohol	2.83	59	2435	2.831	ug/l #	76
12) 1,1-Dichloroethene	2.28	96	1445	0.586	ug/l	93
13) Acrolein	2.18	56	182	0.403	ug/l #	1
16) Acetone	2.32	43	1167	0.614	ug/l	97
20) Methylene Chloride	2.70	84	1382	0.464	ug/l #	91
27) cis-1,2-Dichloroethene	4.23	96	20583	6.590	ug/l	88
31) Cyclohexane	4.99	56	4738	Below Cal	#	9
36) 1,1-Dichloropropene	4.98	75	16317	4.241	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19726	4.662	ug/l #	16
39) Methylcyclohexane	6.19	83	2563	0.534	ug/l #	1
44) Trichloroethene	6.19	130	213701	68.485	ug/l	94
45) 1,2-Dichloropropane	6.18	63	749	0.256	ug/l #	1
52) Toluene	7.64	92	8428	1.195	ug/l	89
76) 1,2,3-Trichloropropane	10.31	75	92529	26.251	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	92529	60.755	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	2562	0.445	ug/l	95
95) Naphthalene	13.77	128	274	0.702	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: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

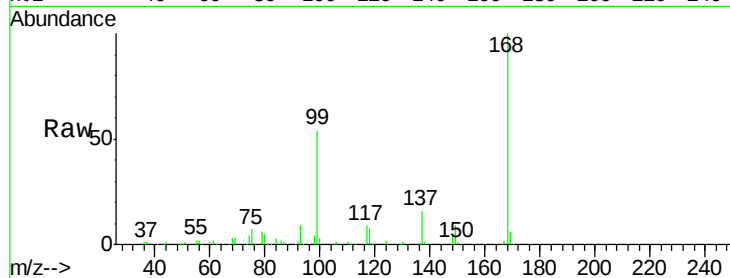
WP021SB483-31-33-180620ME

Tgt Ion:168 Resp: 216630

Ion Ratio Lower Upper

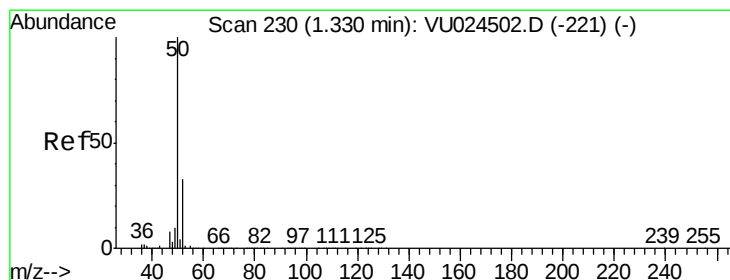
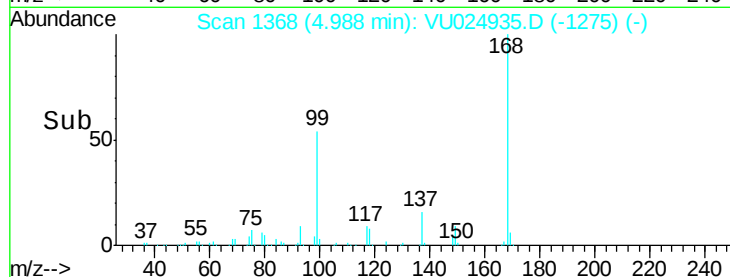
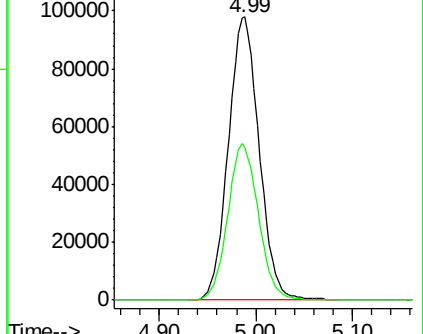
168 100

99 54.2 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: 0.277 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024935.D

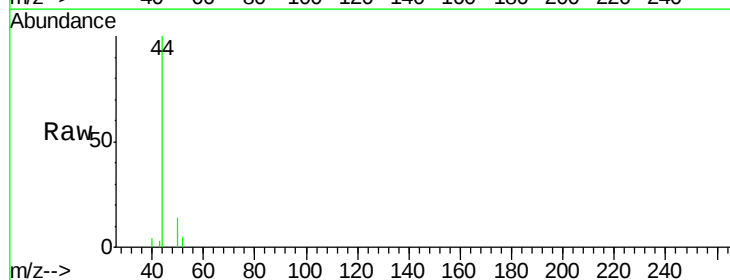
Acq: 26 Jun 2018 21:32

Tgt Ion: 50 Resp: 768

Ion Ratio Lower Upper

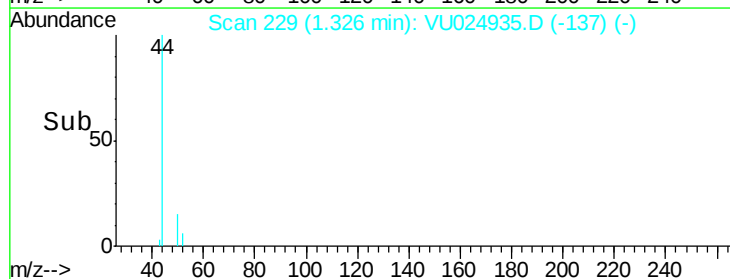
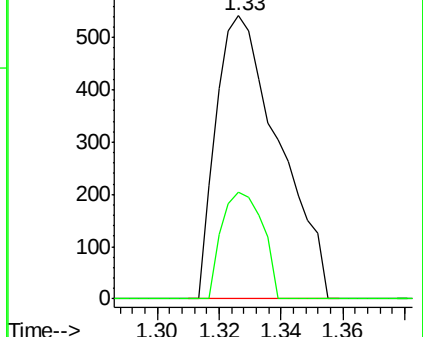
50 100

52 37.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0





#4

Vinyl Chloride

Concen: 0.297 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

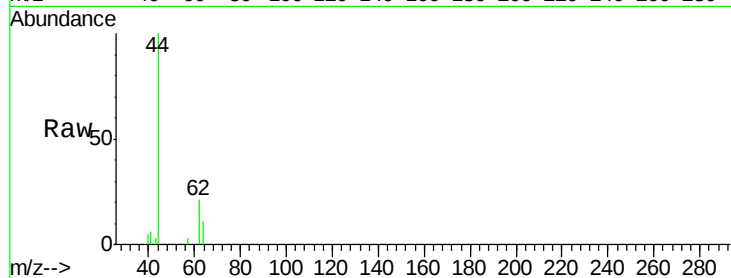
WP021SB483-31-33-180620ME

Tgt Ion: 62 Resp: 849

Ion Ratio Lower Upper

62 100

64 55.0 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.40

800

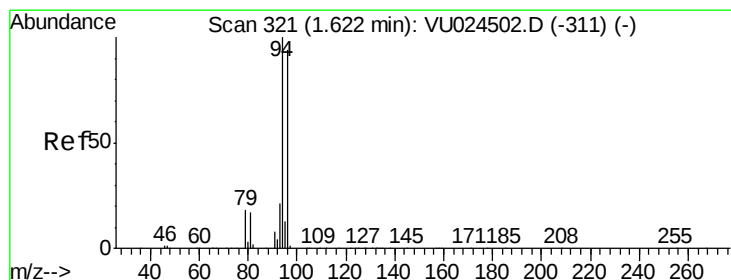
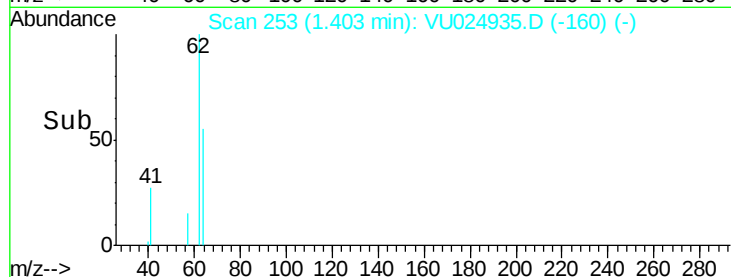
600

400

200

0

Time-->



#5

Bromomethane

Concen: 0.466 ug/l

RT: 1.63 min Scan# 322

Delta R.T. 0.00 min

Lab File: VU024935.D

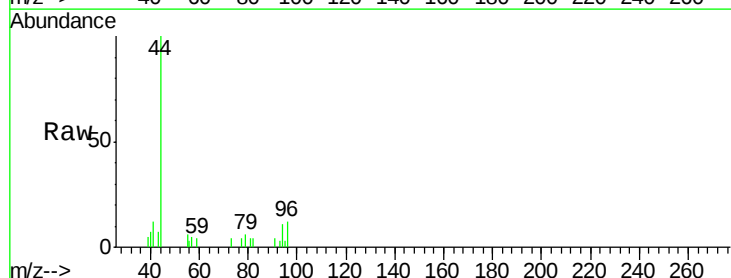
Acq: 26 Jun 2018 21:32

Tgt Ion: 94 Resp: 643

Ion Ratio Lower Upper

94 100

96 108.8 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

400

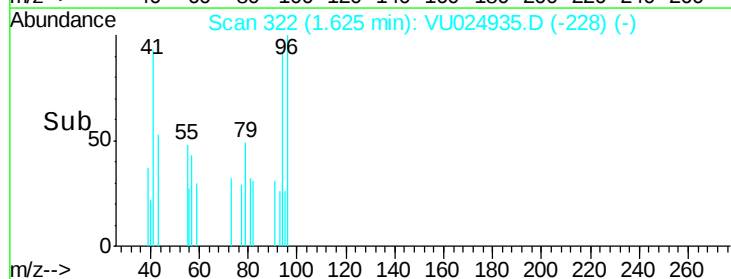
300

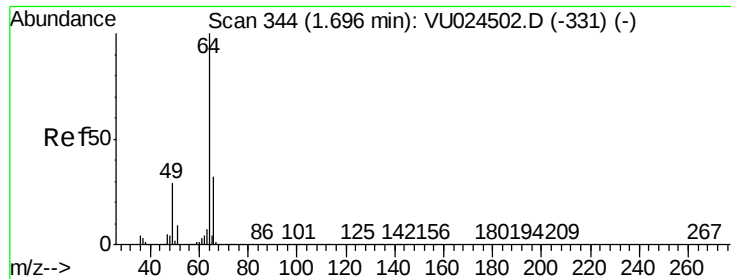
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.63 min Scan# 324

Delta R.T. -0.06 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

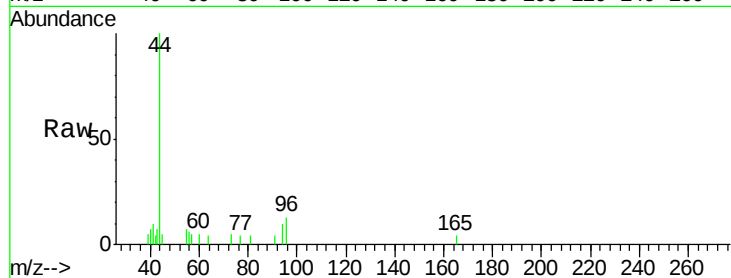
WP021SB483-31-33-180620ME

Tgt Ion: 64 Resp: 44

Ion Ratio Lower Upper

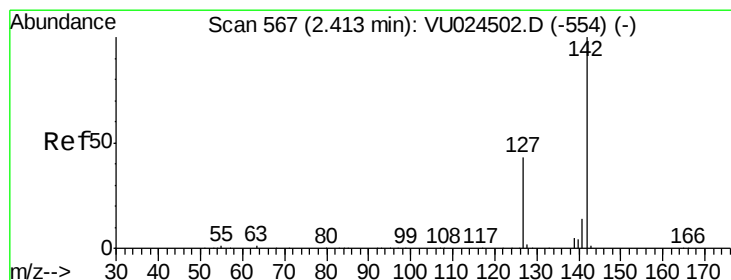
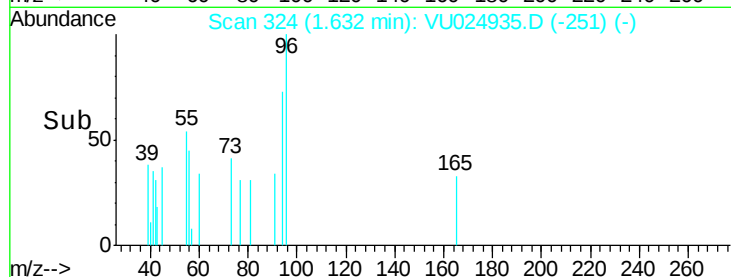
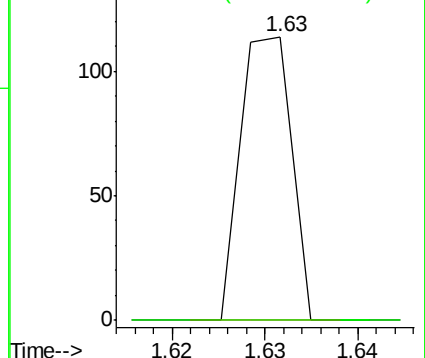
64 100

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: 5.409 ug/l

RT: 2.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

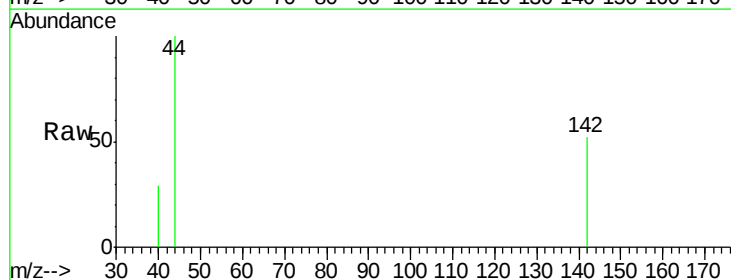
Tgt Ion: 142 Resp: 308

Ion Ratio Lower Upper

142 100

127 12.7 35.6 53.4#

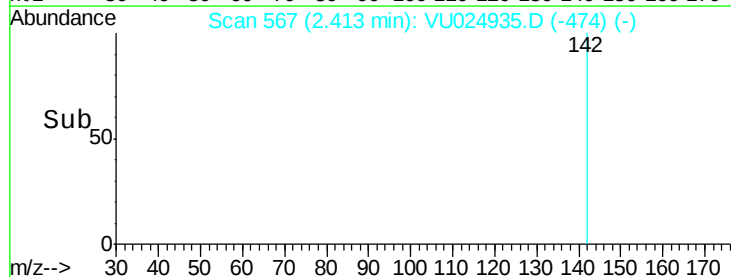
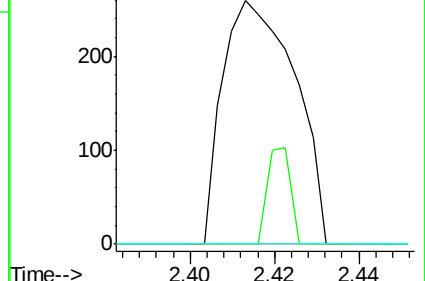
141 0.0 11.7 17.5#



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



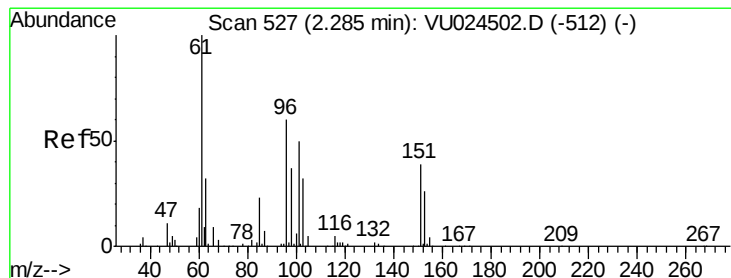
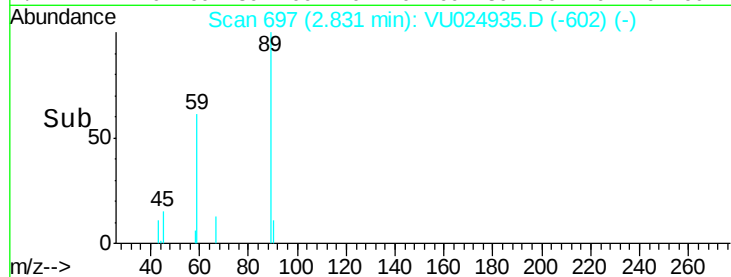
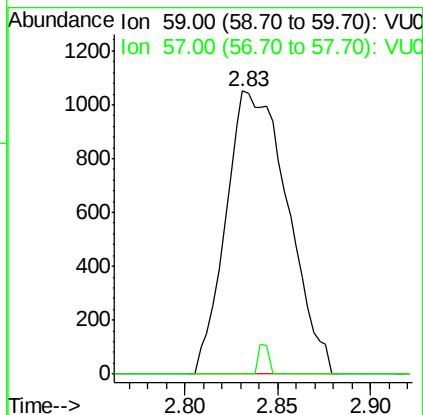
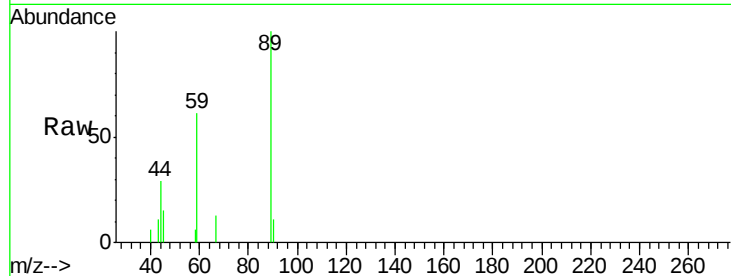


#11

Tert butyl alcohol
 Concen: 2.831 ug/l
 RT: 2.83 min Scan# 697
 Delta R.T. 0.01 min
 Lab File: VU024935.D
 Acq: 26 Jun 2018 21:32

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB483-31-33-180620ME

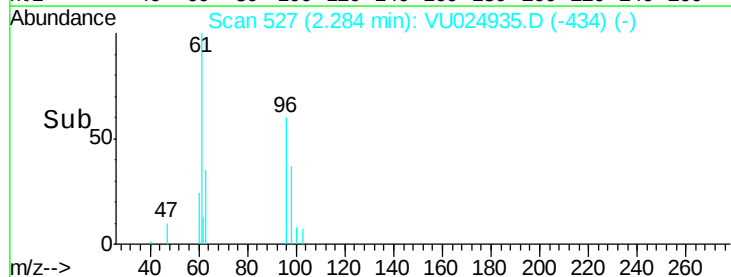
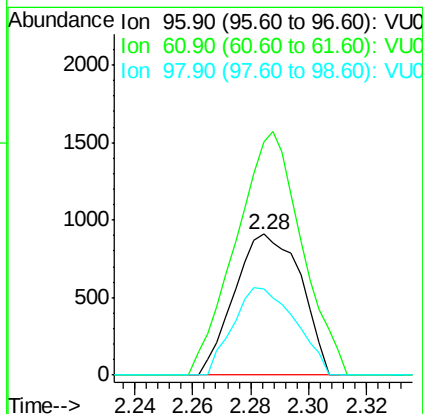
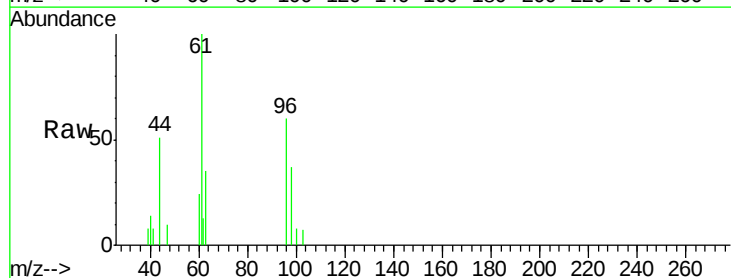
Tgt Ion: 59 Resp: 2435
 Ion Ratio Lower Upper
 59 100
 57 1.7 8.5 12.7#

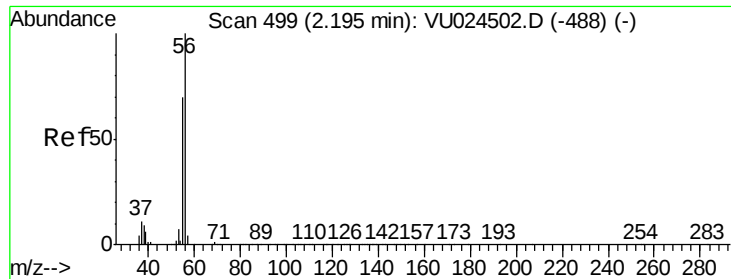


#12

1,1-Dichloroethene
 Concen: 0.586 ug/l
 RT: 2.28 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VU024935.D
 Acq: 26 Jun 2018 21:32

Tgt Ion: 96 Resp: 1445
 Ion Ratio Lower Upper
 96 100
 61 166.0 141.7 212.5
 98 61.2 51.6 77.4





#13

Acrolein

Concen: 0.403 ug/l

RT: 2.18 min Scan# 496

Delta R.T. -0.01 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

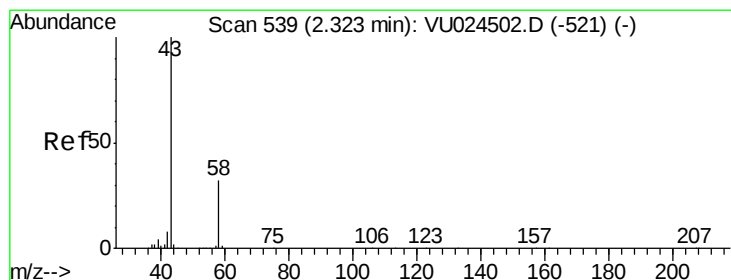
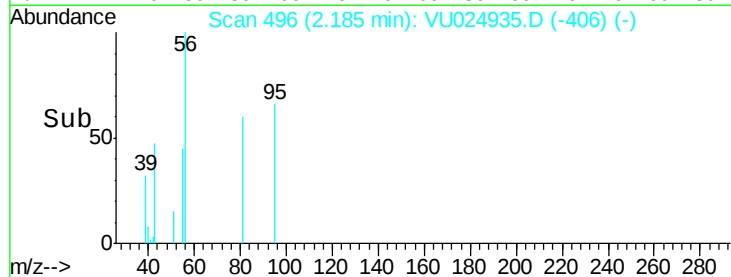
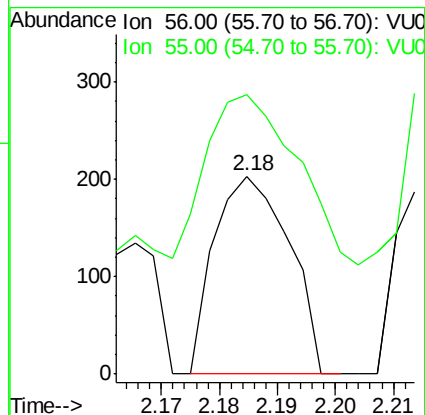
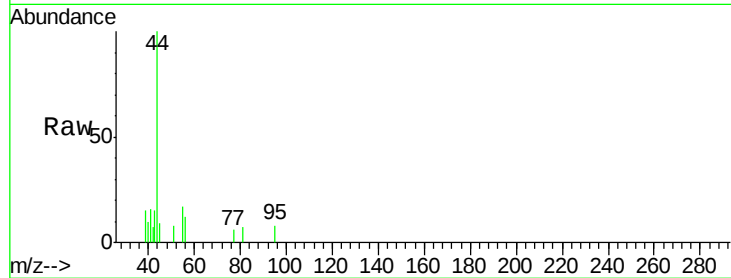
WP021SB483-31-33-180620ME

Tgt Ion: 56 Resp: 182

Ion Ratio Lower Upper

56 100

55 178.0 58.4 87.6#



#16

Acetone

Concen: 0.614 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU024935.D

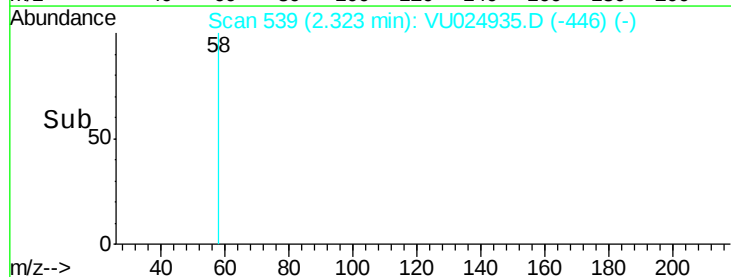
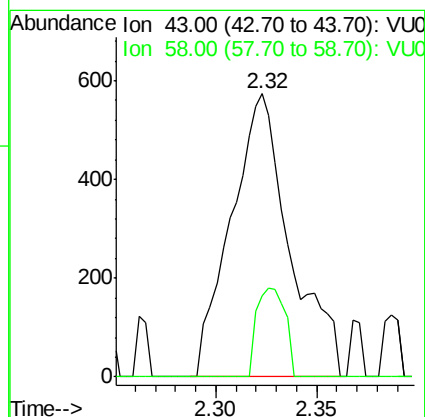
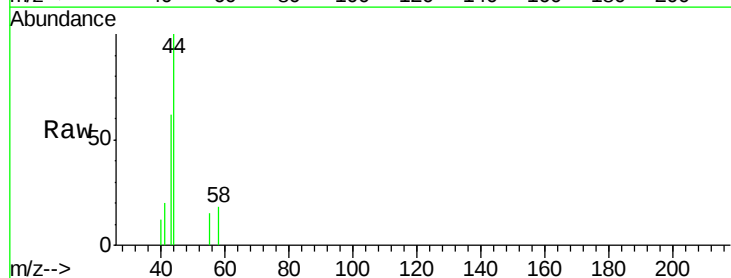
Acq: 26 Jun 2018 21:32

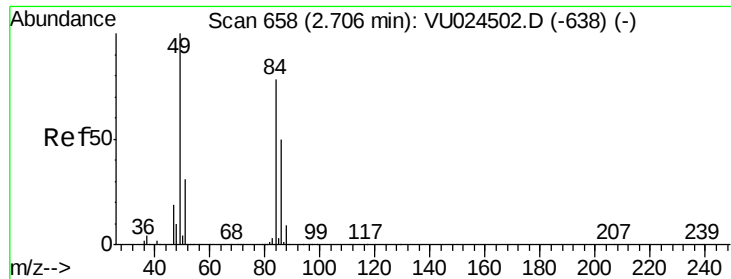
Tgt Ion: 43 Resp: 1167

Ion Ratio Lower Upper

43 100

58 28.8 24.4 36.6

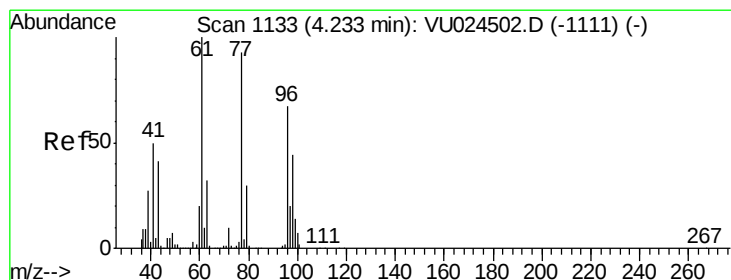
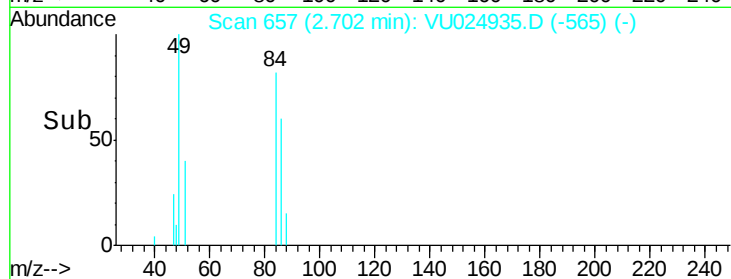
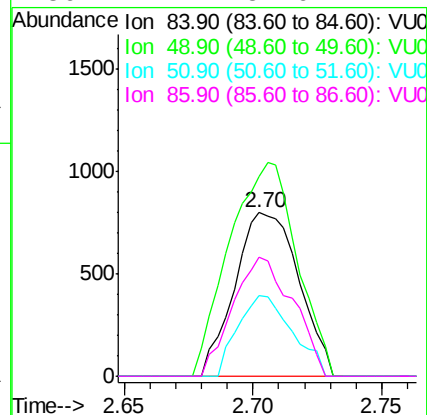
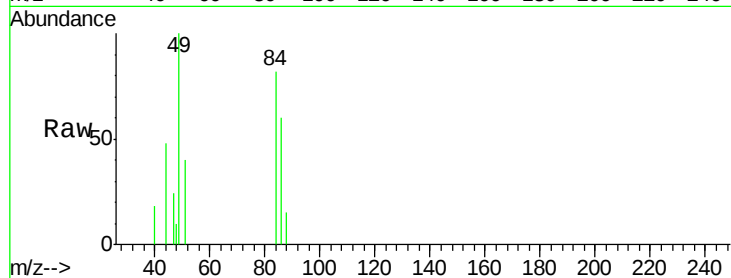




#20
Methylene Chloride
Concen: 0.464 ug/l
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU024935.D
Acq: 26 Jun 2018 21:32

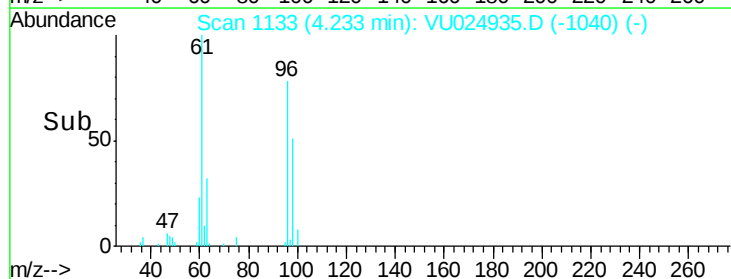
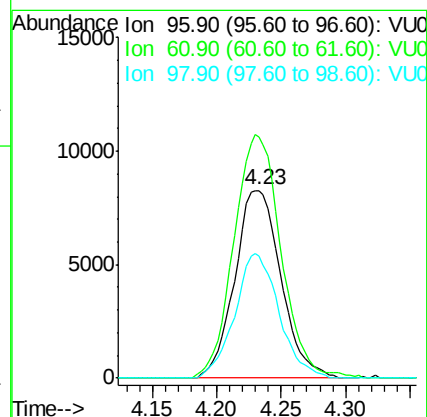
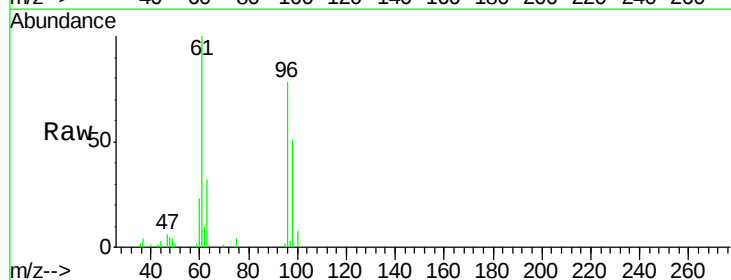
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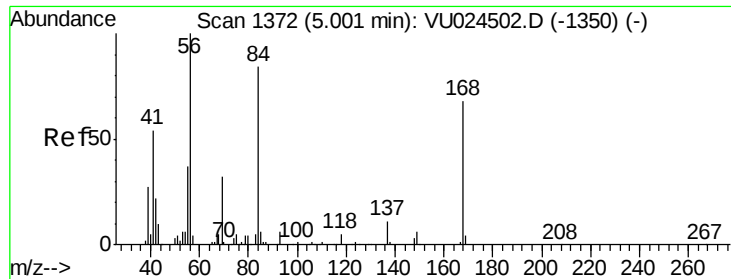
Tgt Ion:	84	Resp:	1382
Ion	Ratio	Lower	Upper
84	100		
49	122.2	103.8	155.8
51	49.5	32.0	48.0#
86	72.7	51.6	77.4



#27
cis-1,2-Dichloroethene
Concen: 6.590 ug/l
RT: 4.23 min Scan# 1133
Delta R.T. -0.00 min
Lab File: VU024935.D
Acq: 26 Jun 2018 21:32

Tgt Ion:	96	Resp:	20583
Ion	Ratio	Lower	Upper
96	100		
61	132.5	0.0	306.6
98	63.6	0.0	128.8

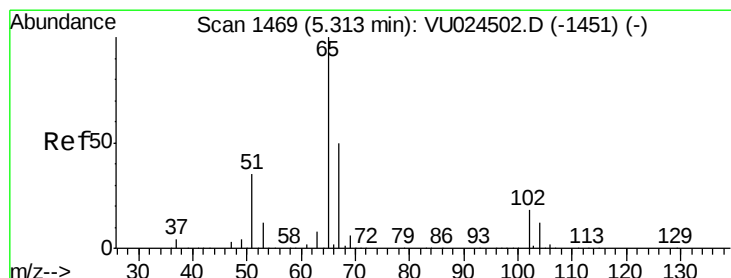
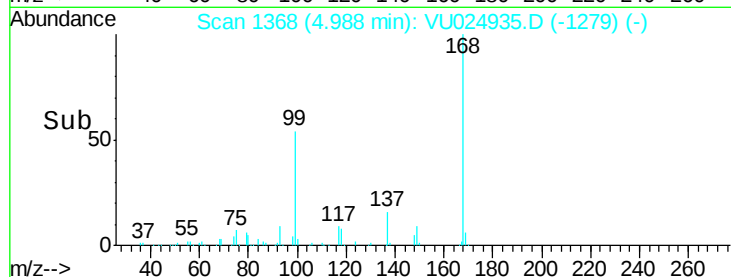
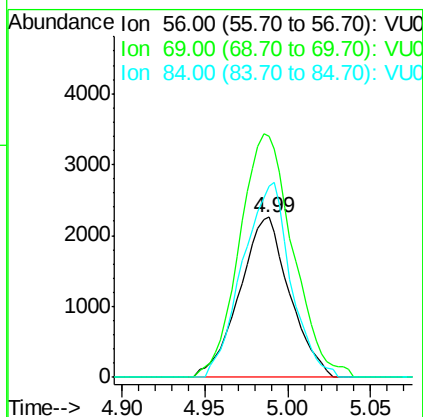
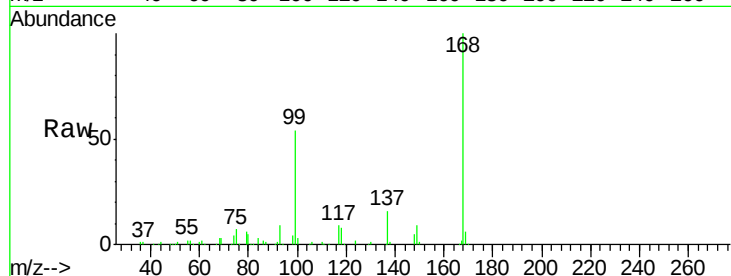




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024935.D
Acq: 26 Jun 2018 21:32

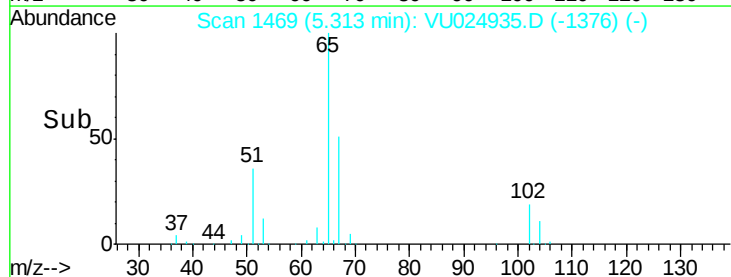
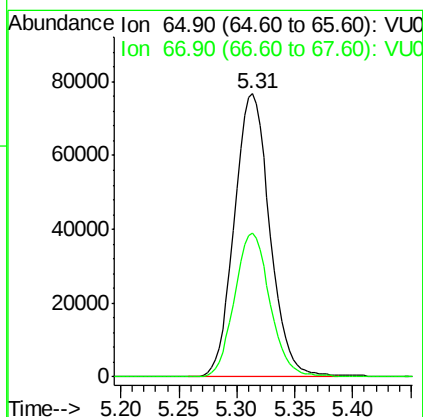
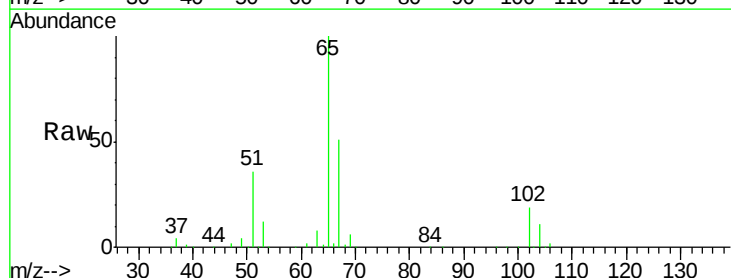
Instrument :
MSVOA_U
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WP021SB483-31-33-180620ME

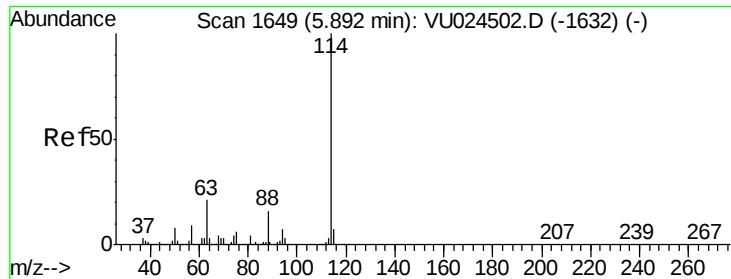
Tgt Ion: 56 Resp: 4738
Ion Ratio Lower Upper
56 100
69 151.0 24.8 37.2#
84 120.0 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 46.176 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU024935.D
Acq: 26 Jun 2018 21:32

Tgt Ion: 65 Resp: 163302
Ion Ratio Lower Upper
65 100
67 50.9 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: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

WP021SB483-31-33-180620ME

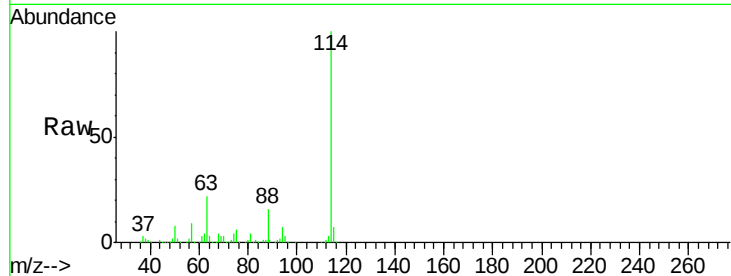
Tgt Ion:114 Resp: 327453

Ion Ratio Lower Upper

114 100

63 21.6 0.0 45.4

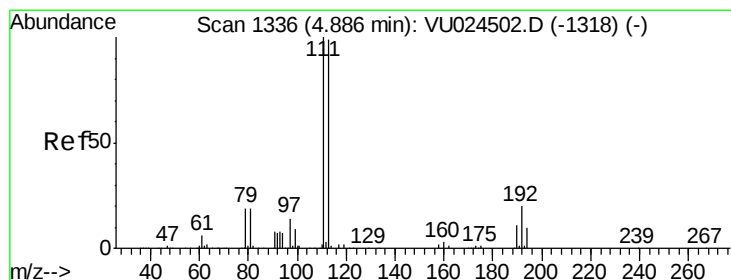
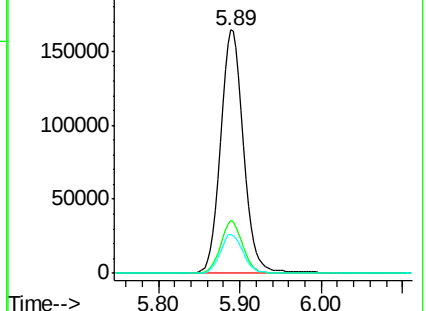
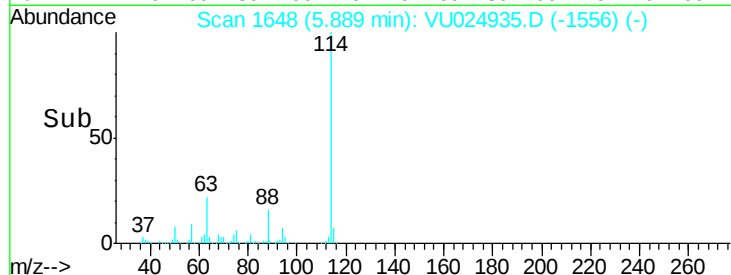
88 16.1 0.0 31.0



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: 46.905 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

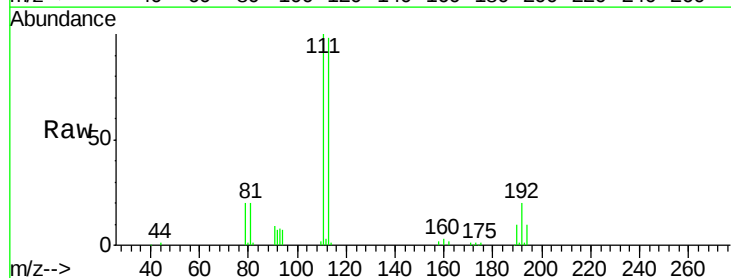
Tgt Ion:113 Resp: 127469

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

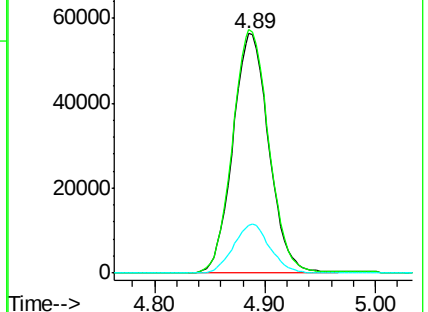
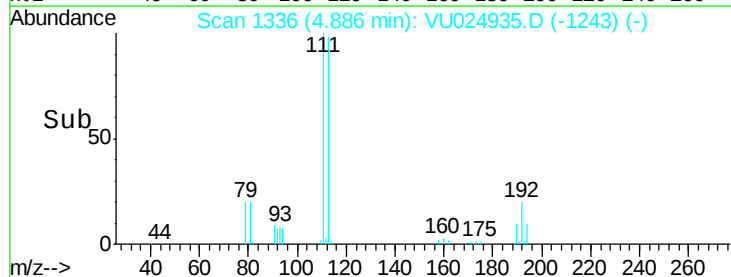
192 20.7 16.2 24.4

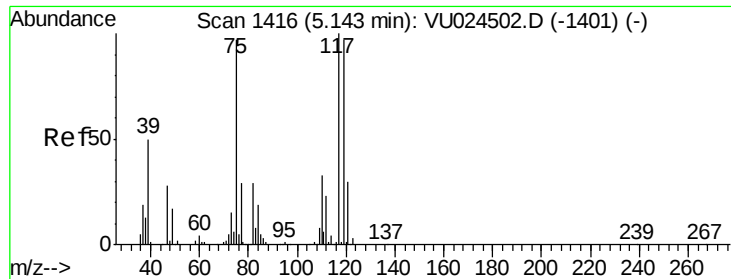


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

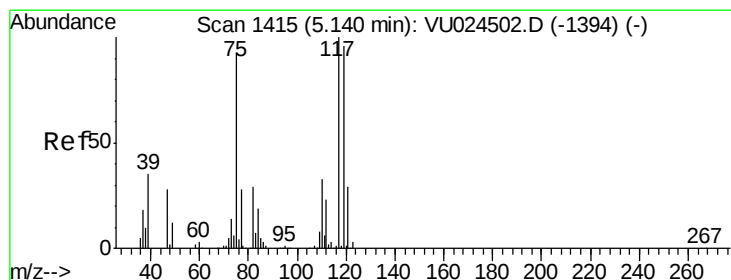
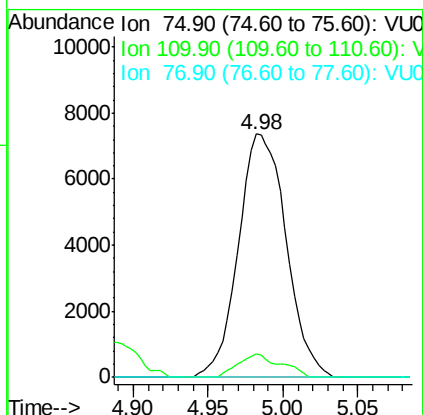
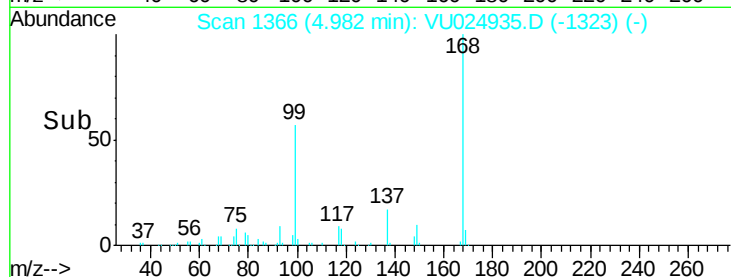
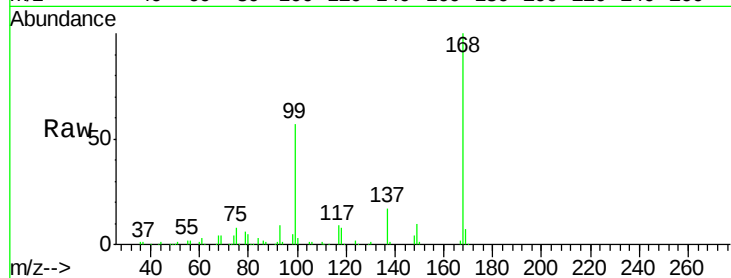




#36
 1,1-Dichloropropene
 Concen: 4.241 ug/l
 RT: 4.98 min Scan# 1366
 Delta R.T. -0.16 min
 Lab File: VU024935.D
 Acq: 26 Jun 2018 21:32

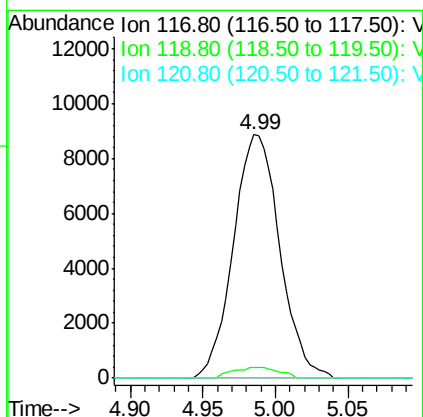
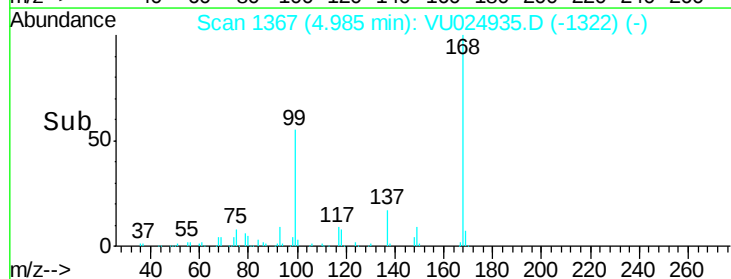
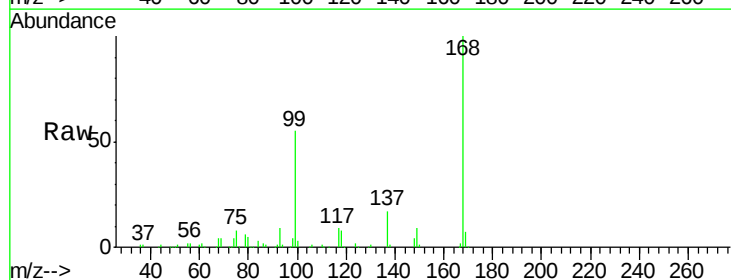
Instrument :
 MSVOA_U
 ClientSampleId :
 WP021SB483-31-33-180620ME

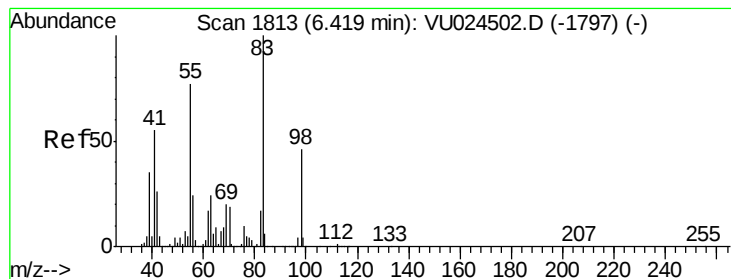
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.662 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU024935.D
 Acq: 26 Jun 2018 21:32

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	76.1	114.1#
121	0.0	23.7	35.5#





#39

Methylcyclohexane

Concen: 0.534 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.23 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

WP021SB483-31-33-180620ME

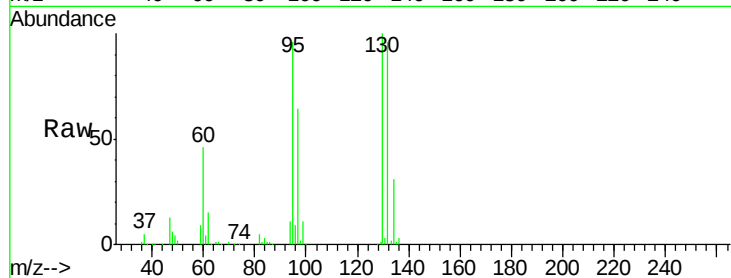
Tgt Ion: 83 Resp: 2563

Ion Ratio Lower Upper

83 100

55 0.0 65.8 98.6#

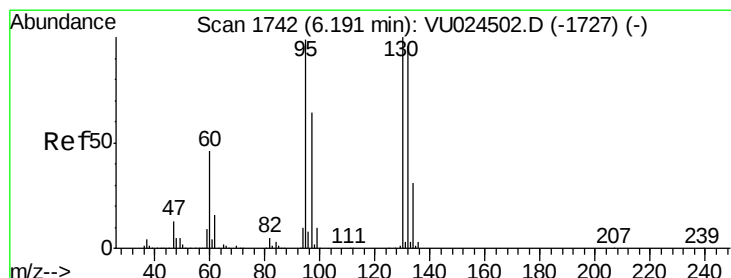
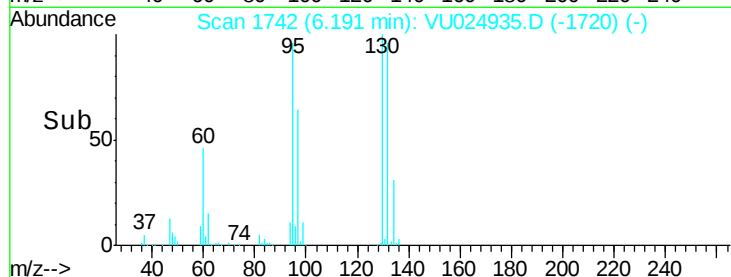
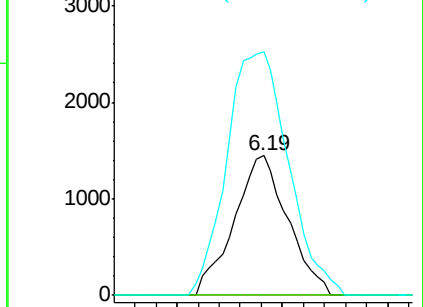
98 174.4 36.7 55.1#



Abundance Ion 83.00 (82.70 to 83.70): VU024935.D (-1720) (-)

Ion 55.00 (54.70 to 55.70): VU024935.D (-1720) (-)

Ion 98.00 (97.70 to 98.70): VU024935.D (-1720) (-)



#44

Trichloroethene

Concen: 68.485 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU024935.D

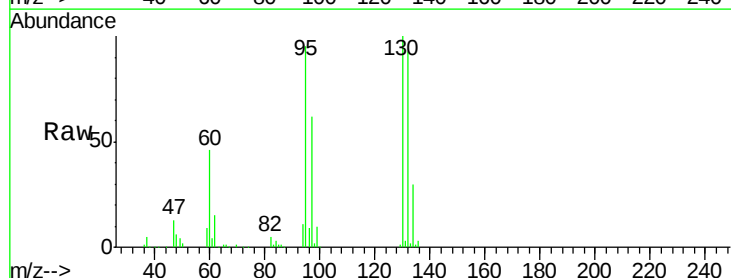
Acq: 26 Jun 2018 21:32

Tgt Ion: 130 Resp: 213701

Ion Ratio Lower Upper

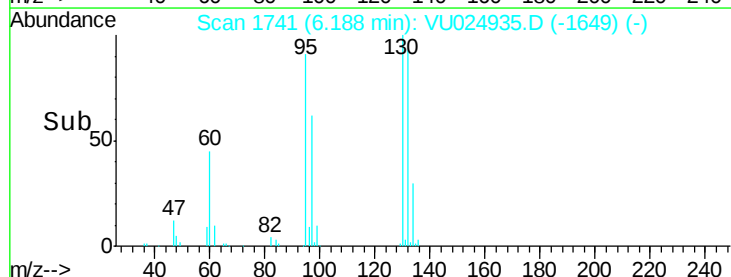
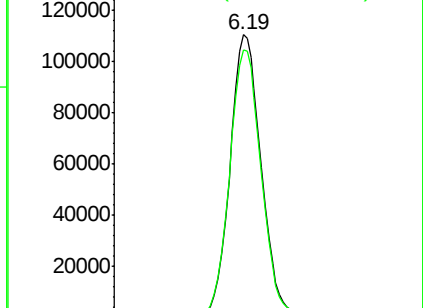
130 100

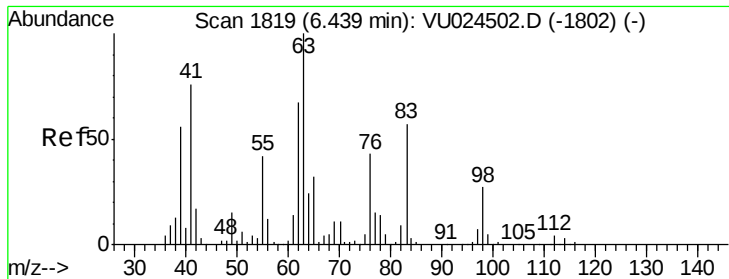
95 94.9 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024935.D (-1649) (-)

Ion 94.90 (94.60 to 95.60): VU024935.D (-1649) (-)





#45

1,2-Dichloropropane

Concen: 0.256 ug/l

RT: 6.18 min Scan# 1740

Delta R.T. -0.25 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

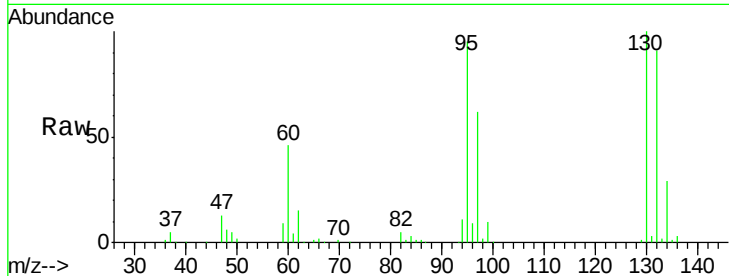
WP021SB483-31-33-180620ME

Tgt Ion: 63 Resp: 749

Ion Ratio Lower Upper

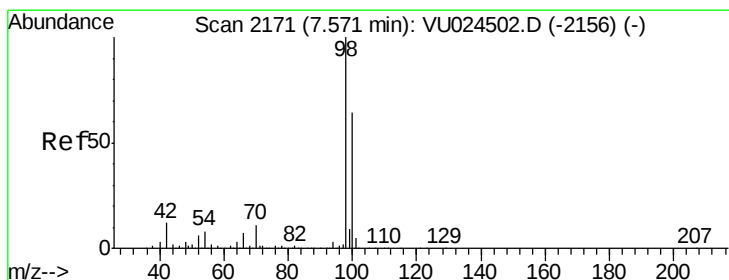
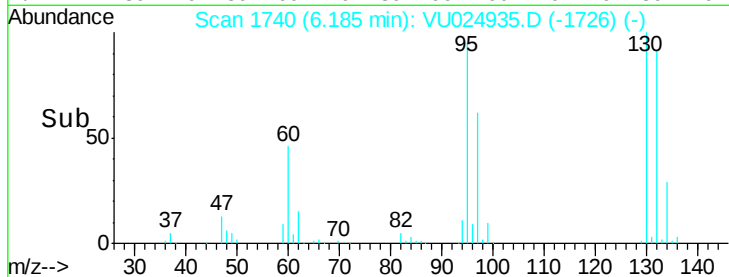
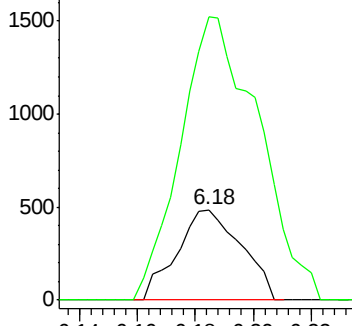
63 100

65 314.5 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 64.90 (64.60 to 65.60): VU0



#50

Toluene-d8

Concen: 48.221 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024935.D

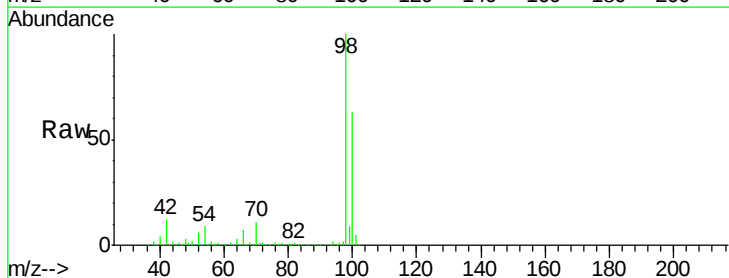
Acq: 26 Jun 2018 21:32

Tgt Ion: 98 Resp: 478000

Ion Ratio Lower Upper

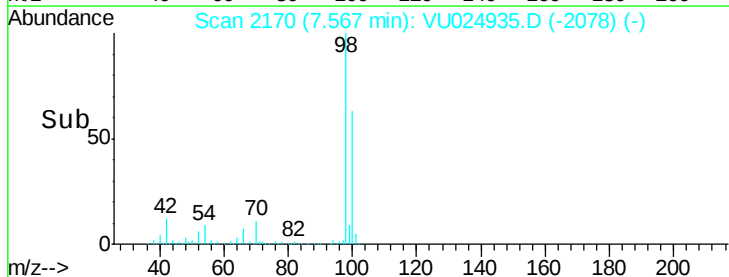
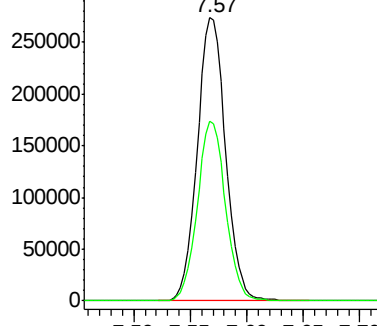
98 100

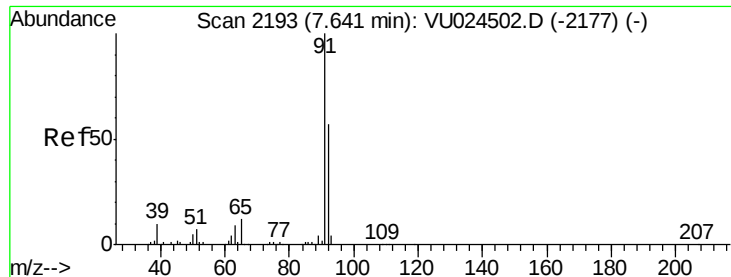
100 62.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#52

Toluene

Concen: 1.195 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

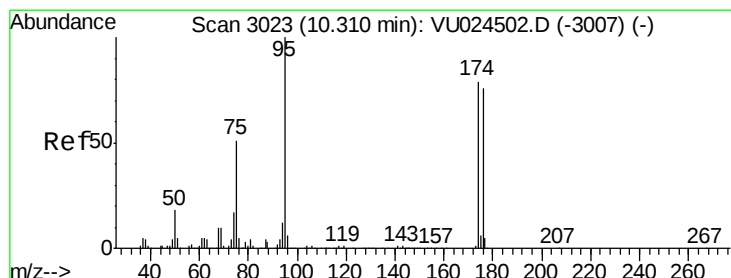
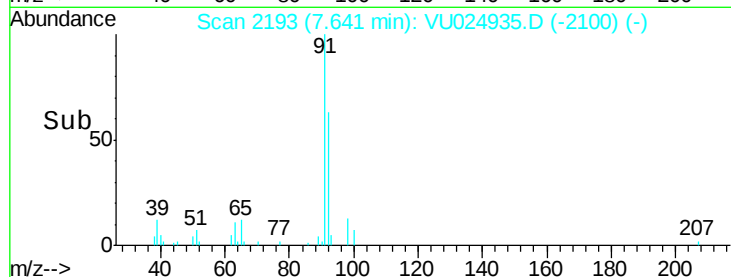
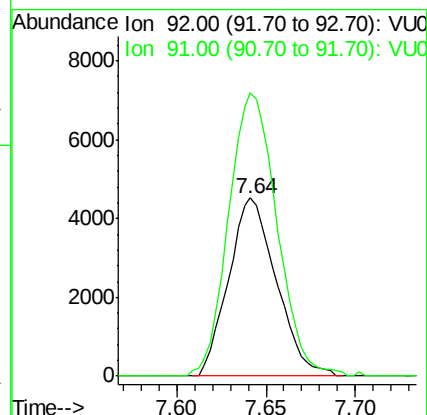
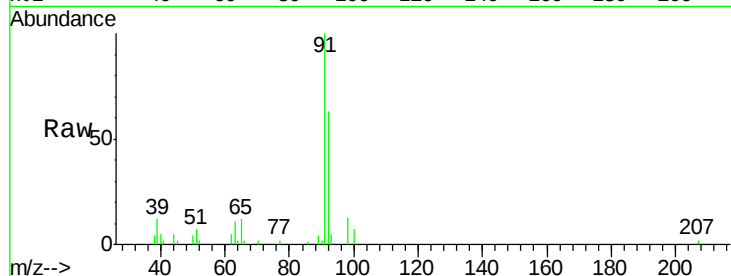
WP021SB483-31-33-180620ME

Tgt Ion: 92 Resp: 8428

Ion Ratio Lower Upper

92 100

91 160.9 140.5 210.7



#62

4-Bromofluorobenzene

Concen: 44.987 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

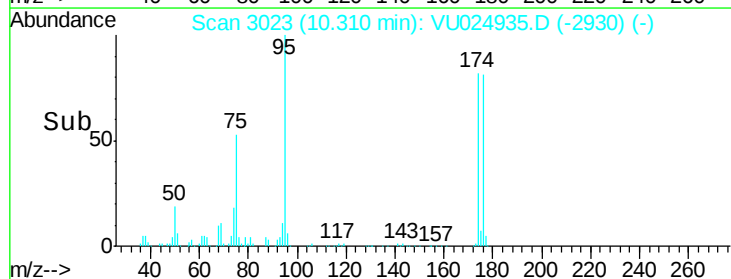
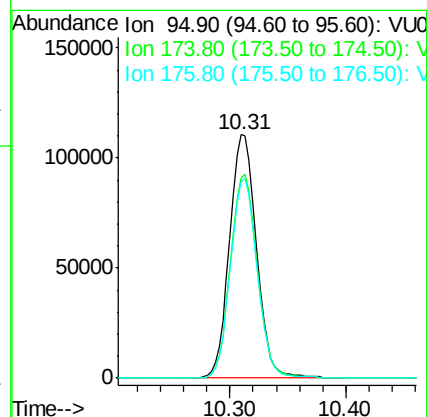
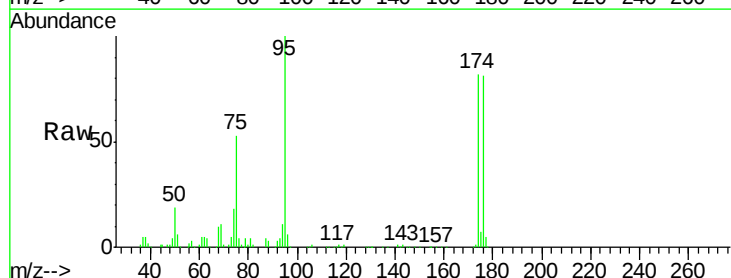
Tgt Ion: 95 Resp: 177058

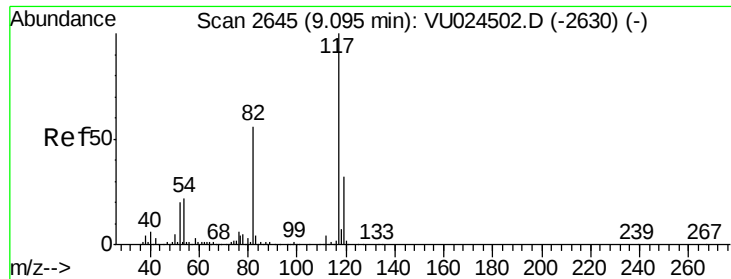
Ion Ratio Lower Upper

95 100

174 83.6 0.0 165.8

176 81.5 0.0 159.4

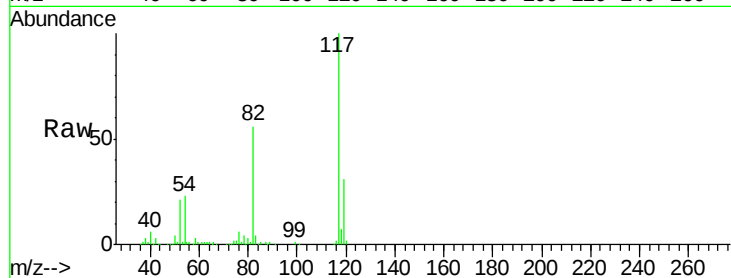




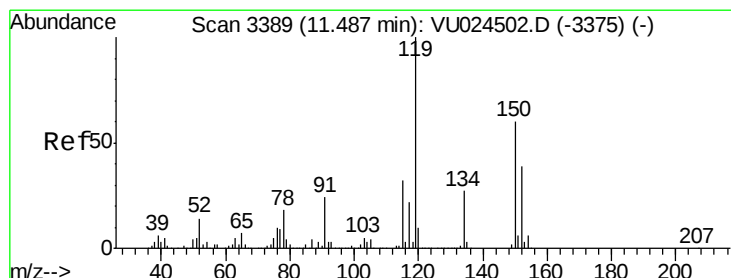
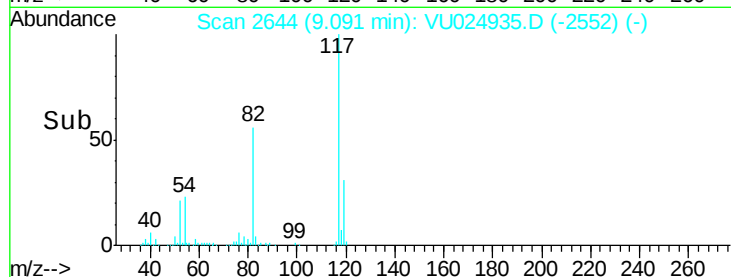
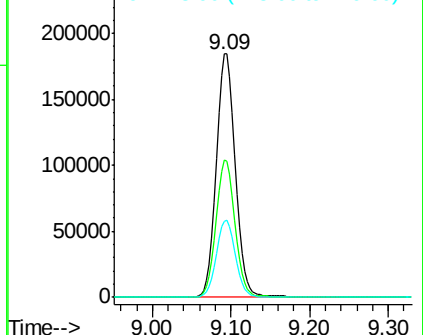
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024935.D
Acq: 26 Jun 2018 21:32

Instrument :
MSVOA_U
ClientSampleId :
WP021SB483-31-33-180620ME

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.2	44.3	66.5
119	31.3	25.4	38.2

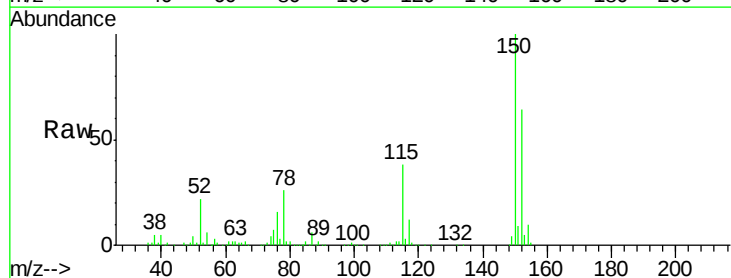


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

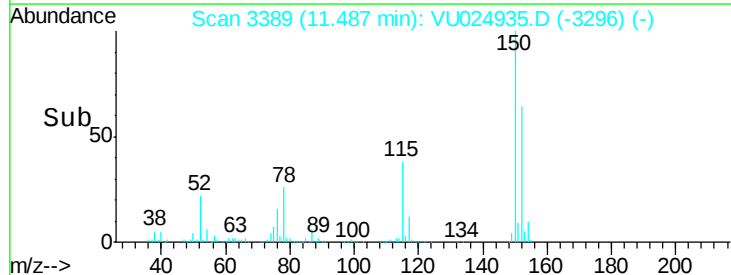
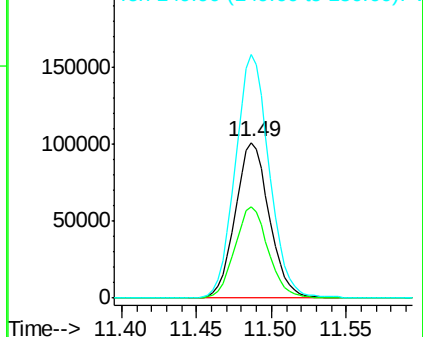


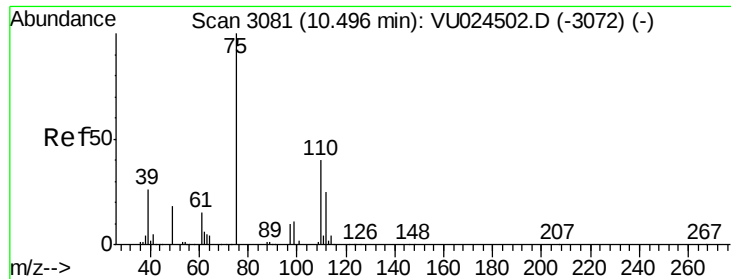
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU024935.D
Acq: 26 Jun 2018 21:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	43.0	129.0
150	157.1	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: 26.251 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

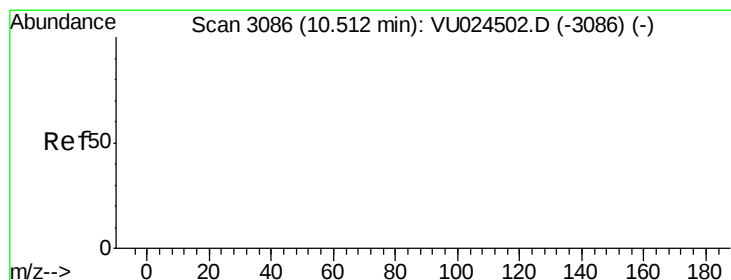
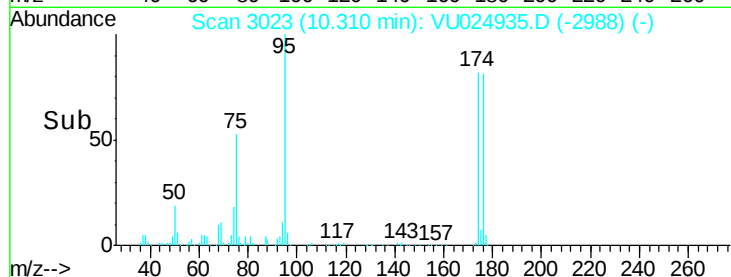
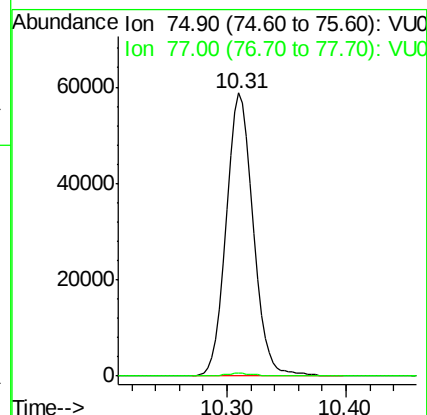
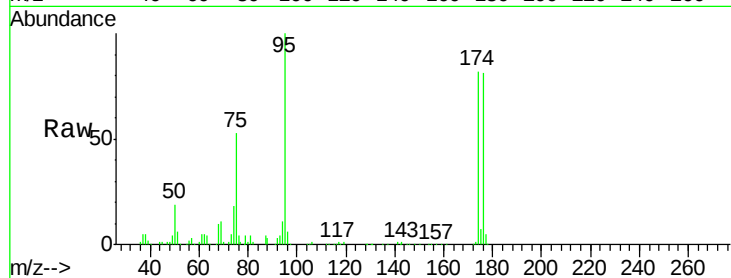
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Tgt Ion: 75 Resp: 92529

Ion Ratio Lower Upper

75 100

77 1.0 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.755 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

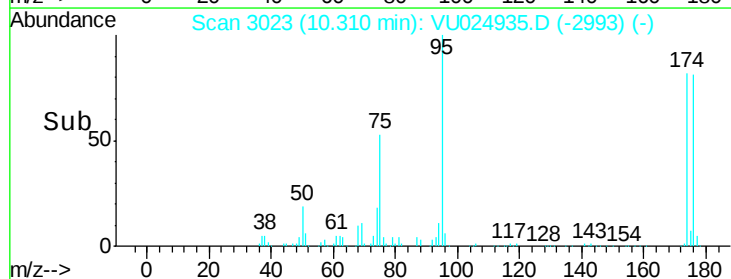
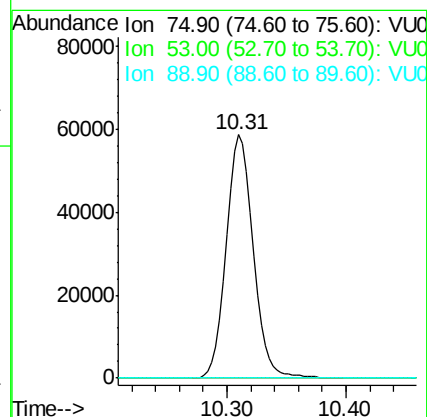
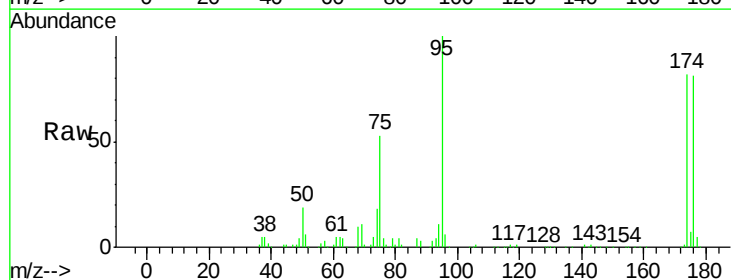
Tgt Ion: 75 Resp: 92529

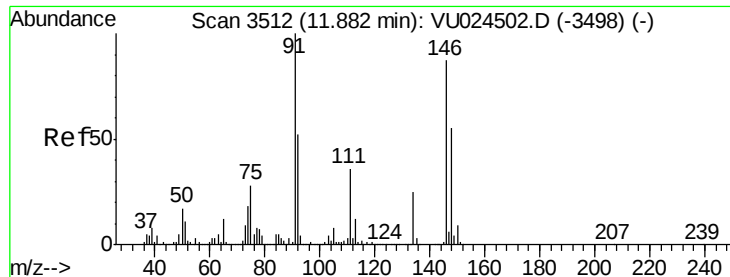
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#91

1,2-Dichlorobenzene

Concen: 0.445 ug/l

RT: 11.89 min Scan# 3514

Delta R.T. 0.01 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

Instrument :

MSVOA_U

ClientSampleId :

WP021SB483-31-33-180620ME

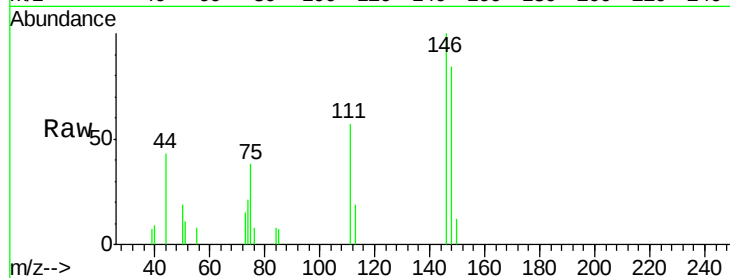
Tgt Ion:146 Resp: 2562

Ion Ratio Lower Upper

146 100

111 44.4 20.5 61.6

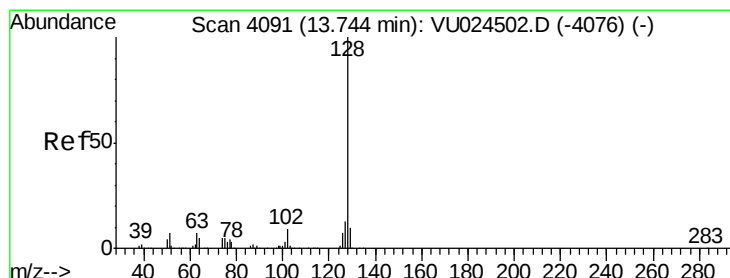
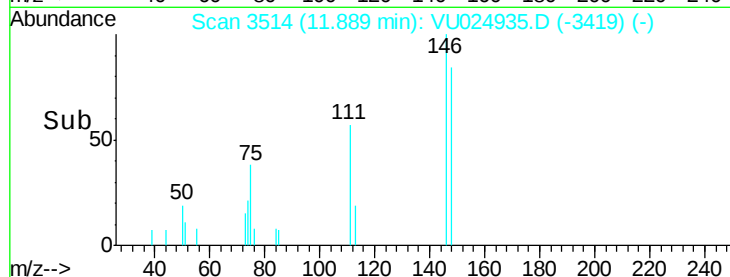
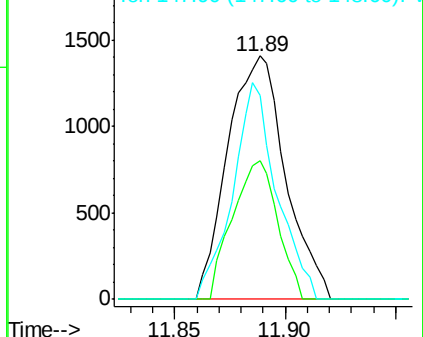
148 67.7 31.9 95.7



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: 0.702 ug/l

RT: 13.77 min Scan# 4100

Delta R.T. 0.03 min

Lab File: VU024935.D

Acq: 26 Jun 2018 21:32

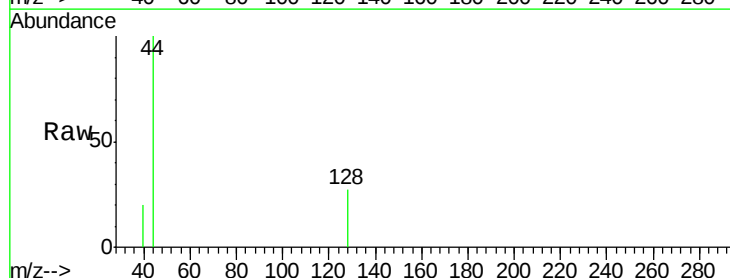
Tgt Ion:128 Resp: 274

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 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

