

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061818\
 Data File : VU024704.D
 Acq On : 18 Jun 2018 20:15
 Operator : MD/SY
 Sample : J3477-04
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S36-0141

Quant Time: Jun 19 05:15:39 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	200529	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	327216	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	294456	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	160005	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	155480	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
35) Dibromofluoromethane	4.89	113	129004	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
50) Toluene-d8	7.57	98	453856	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	
62) 4-Bromofluorobenzene	10.31	95	169990	43.22	ug/l	0.00
Spiked Amount			Recovery	=	86.44%	

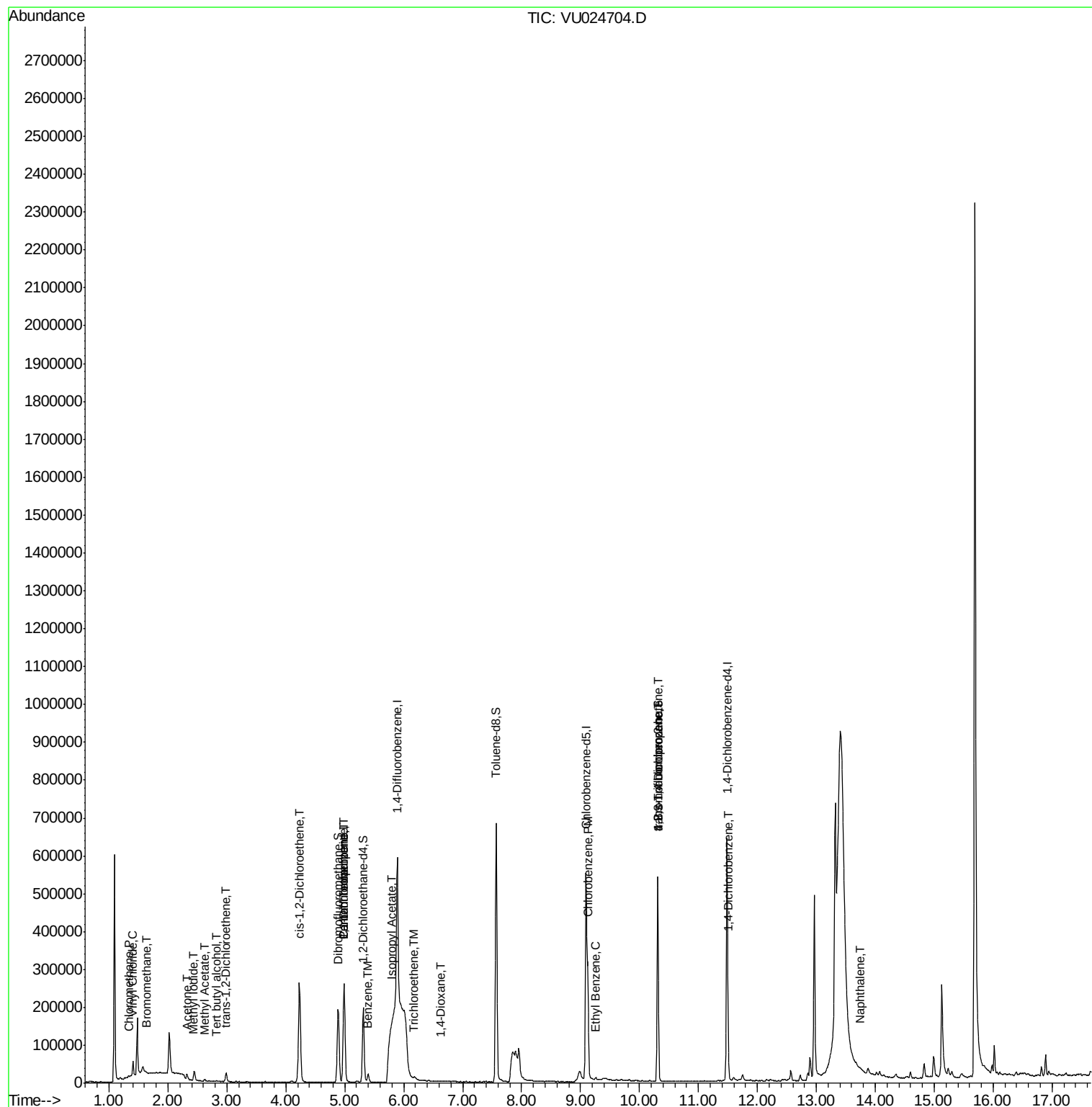
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1560	0.608	ug/l #	85
4) Vinyl Chloride	1.41	62	23901	9.038	ug/l #	88
5) Bromomethane	1.63	94	577	0.451	ug/l #	42
6) Chloroethane	1.69	64	533	Below Cal	#	61
8) Diethyl Ether	2.10	74	184	Below Cal	#	1
10) Methyl Iodide	2.42	142	650	5.563	ug/l #	67
11) Tert butyl alcohol	2.83	59	1483	1.863	ug/l #	84
16) Acetone	2.32	43	14055	7.991	ug/l	99
18) Methyl Acetate	2.62	43	5495	1.457	ug/l	95
21) trans-1,2-Dichloroethene	2.99	96	9381	3.730	ug/l	95
27) cis-1,2-Dichloroethene	4.23	96	146668	50.729	ug/l	88
31) Cyclohexane	4.99	56	5381	Below Cal	#	16
36) 1,1-Dichloropropene	4.99	75	14354	3.733	ug/l #	48
38) Carbon Tetrachloride	4.99	117	18998	4.493	ug/l #	16
40) Benzene	5.39	78	19622	1.791	ug/l	98
43) Isopropyl Acetate	5.78	43	144165	19.901	ug/l #	63
44) Trichloroethene	6.19	130	711	0.228	ug/l	92
49) 1,4-Dioxane	6.63	88	827	11.988	ug/l #	55
65) Chlorobenzene	9.12	112	152711	20.301	ug/l	100
67) Ethyl Benzene	9.25	91	4113	0.312	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	88412	25.098	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	88412	58.086	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	6617	1.144	ug/l	97
95) Naphthalene	13.74	128	2259	0.869	ug/l #	78

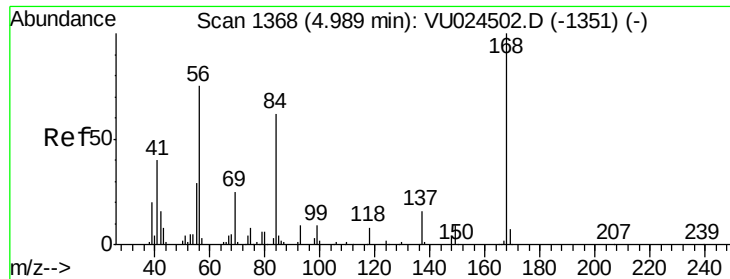
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampled :

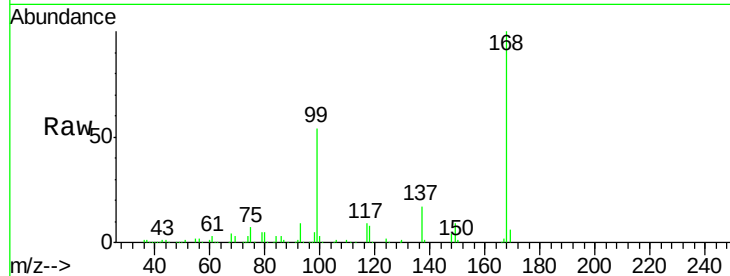
S36-0141

Tgt Ion:168 Resp: 200529

Ion Ratio Lower Upper

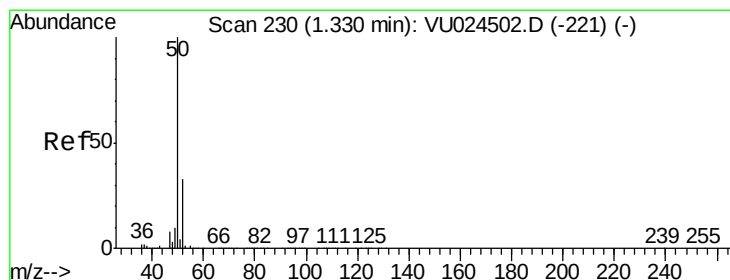
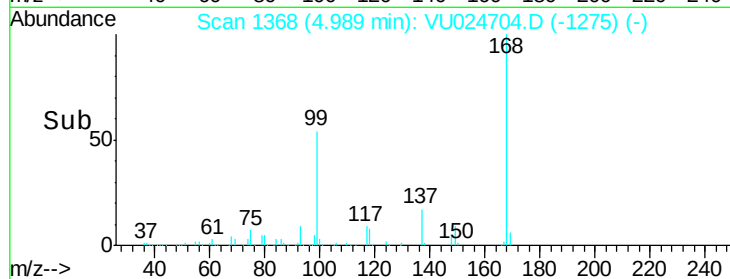
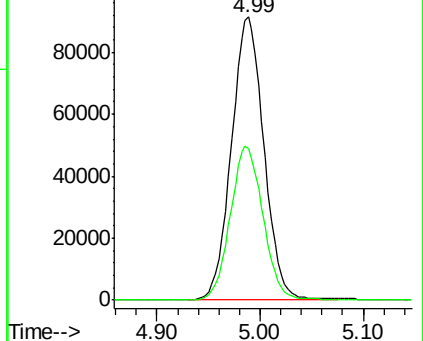
168 100

99 53.7 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.608 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024704.D

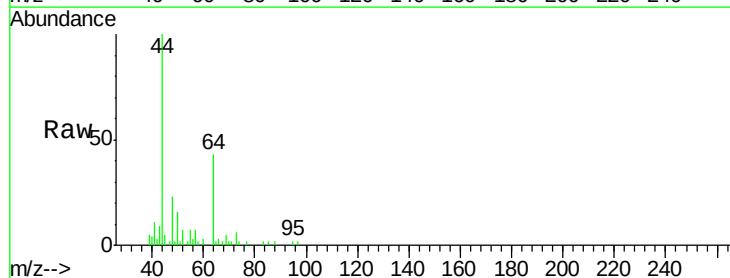
Acq: 18 Jun 2018 20:15

Tgt Ion: 50 Resp: 1560

Ion Ratio Lower Upper

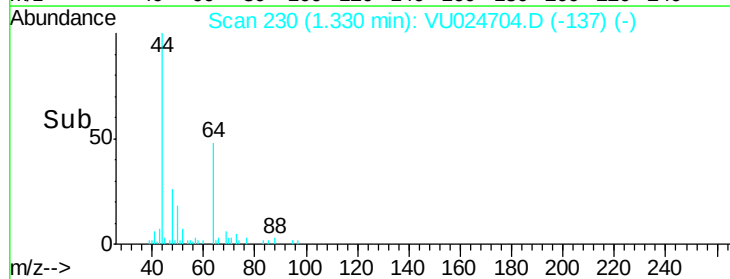
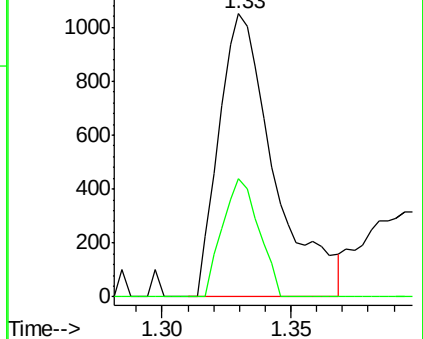
50 100

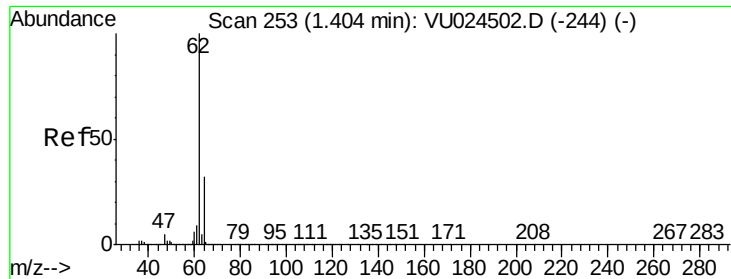
52 41.7 26.4 39.6#



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

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#4

Vinyl Chloride

Concen: 9.038 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

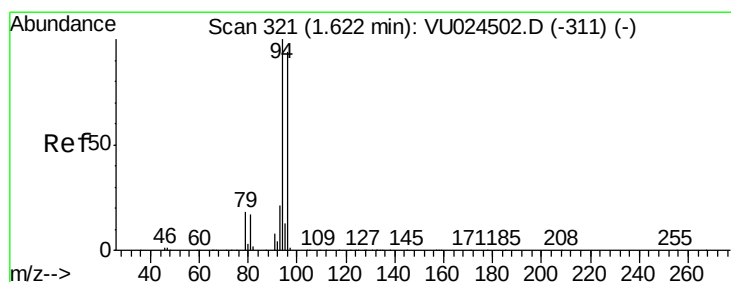
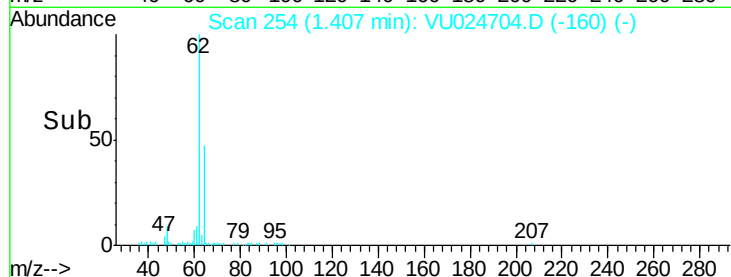
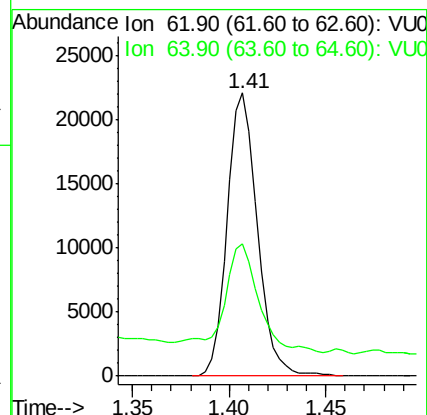
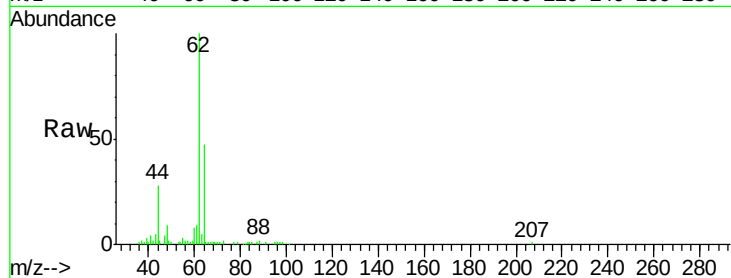
S36-0141

Tgt Ion: 62 Resp: 23901

Ion Ratio Lower Upper

62 100

64 37.4 24.8 37.2#



#5

Bromomethane

Concen: 0.451 ug/l

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU024704.D

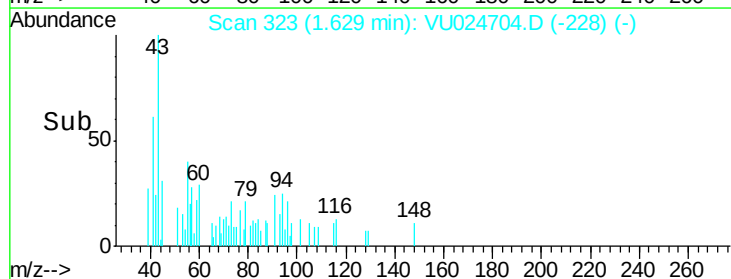
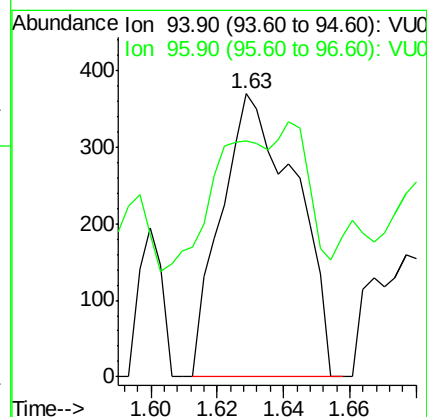
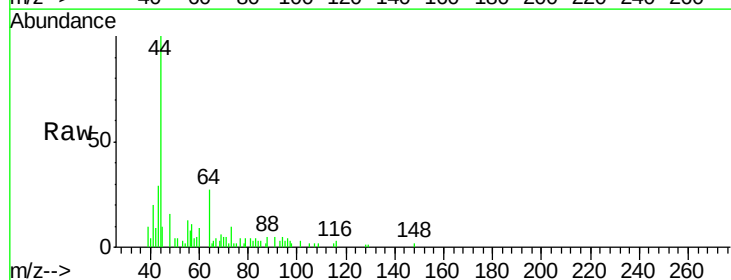
Acq: 18 Jun 2018 20:15

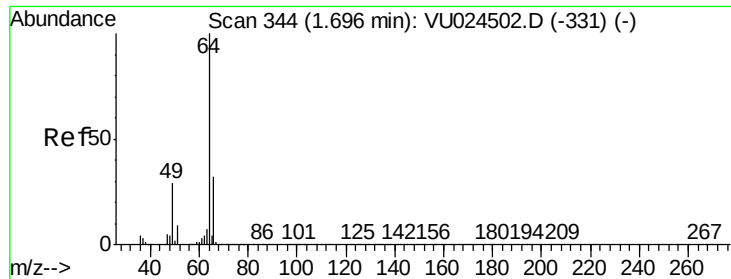
Tgt Ion: 94 Resp: 577

Ion Ratio Lower Upper

94 100

96 37.7 74.5 111.7#





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

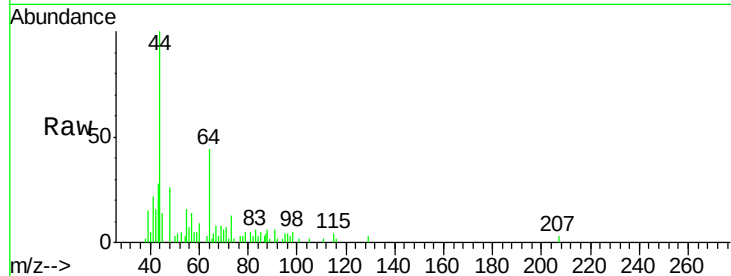
S36-0141

Tgt Ion: 64 Resp: 533

Ion Ratio Lower Upper

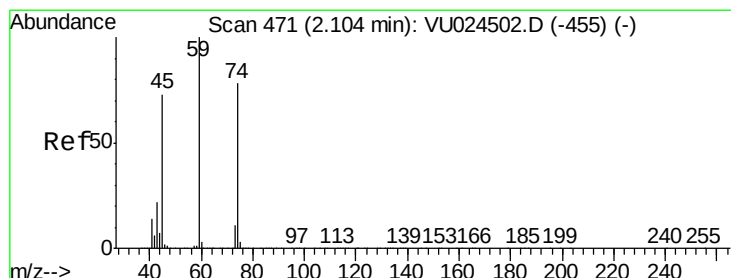
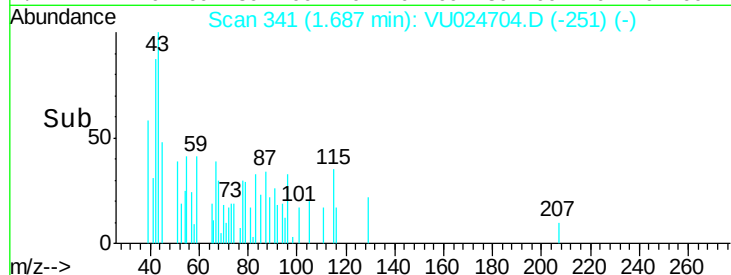
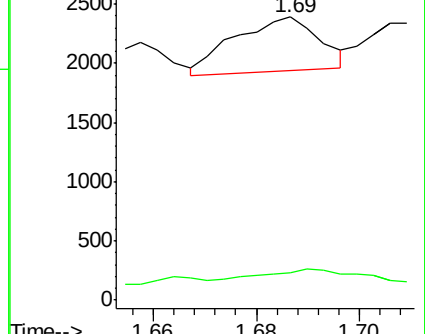
64 100

66 10.4 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.10 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU024704.D

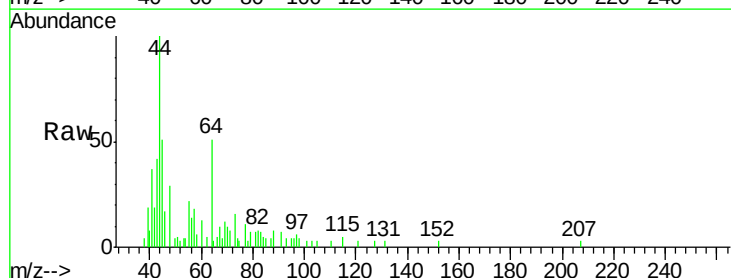
Acq: 18 Jun 2018 20:15

Tgt Ion: 74 Resp: 184

Ion Ratio Lower Upper

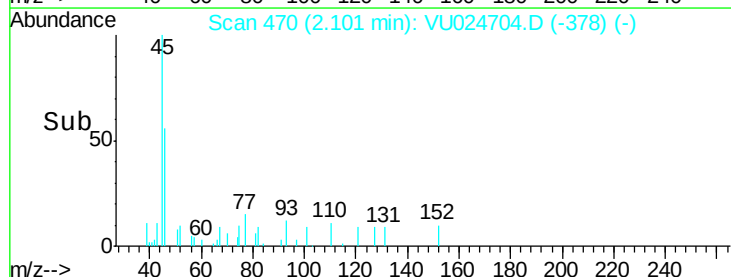
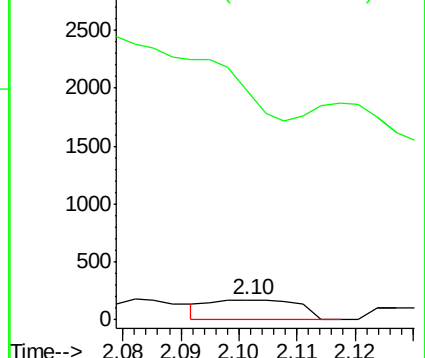
74 100

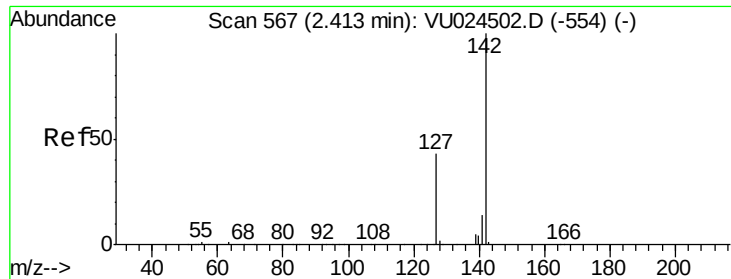
45 0.0 55.0 165.0#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0





#10

Methyl Iodide

Concen: 5.563 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

S36-0141

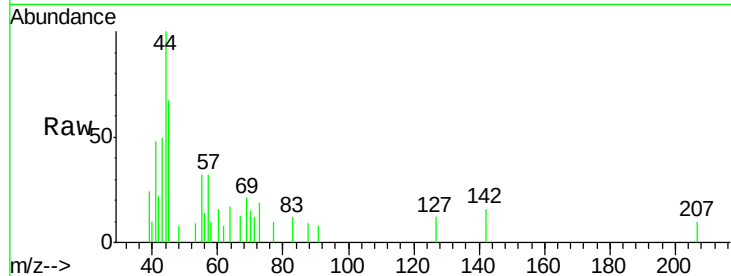
Tgt Ion:142 Resp: 650

Ion Ratio Lower Upper

142 100

127 23.7 35.6 53.4#

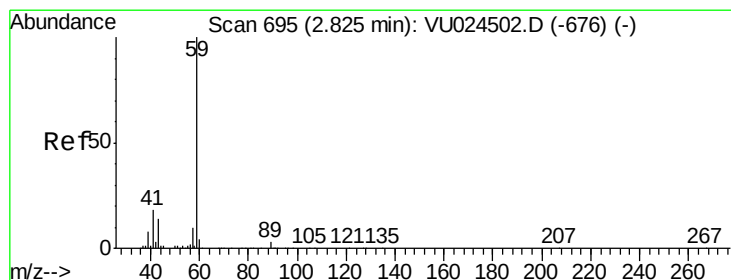
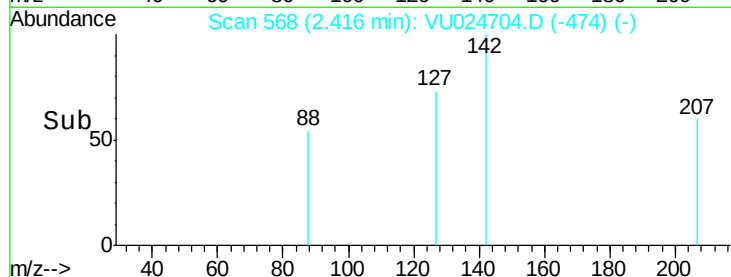
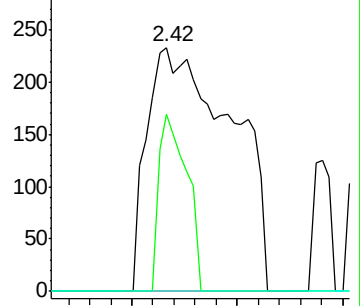
141 0.0 11.7 17.5#



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: 1.863 ug/l

RT: 2.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VU024704.D

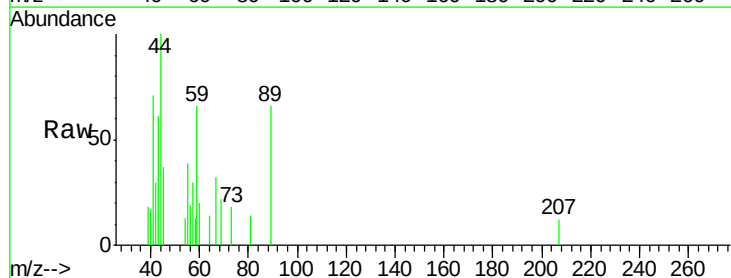
Acq: 18 Jun 2018 20:15

Tgt Ion: 59 Resp: 1483

Ion Ratio Lower Upper

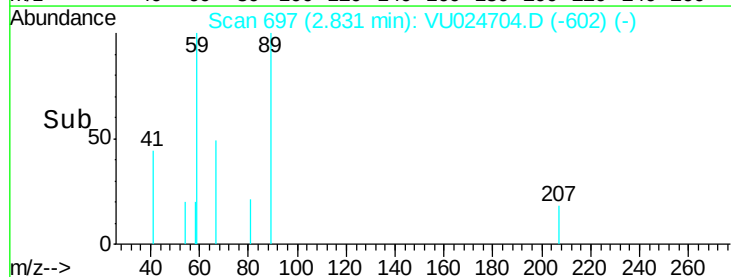
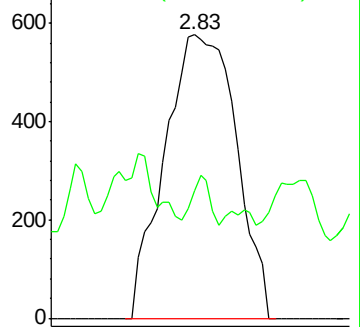
59 100

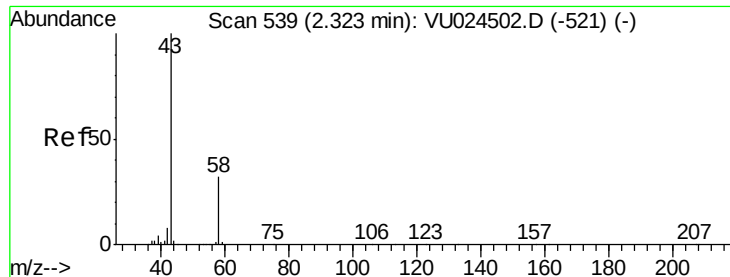
57 4.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#16

Acetone

Concen: 7.991 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

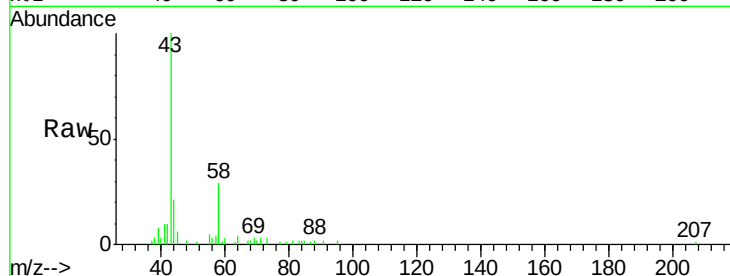
S36-0141

Tgt Ion: 43 Resp: 14055

Ion Ratio Lower Upper

43 100

58 30.1 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

10000

8000

6000

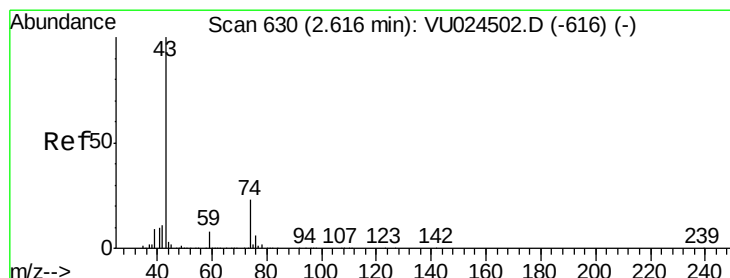
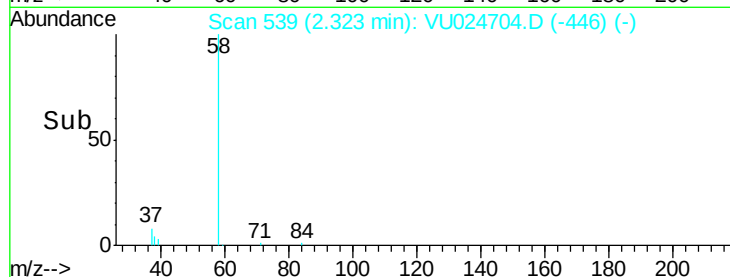
4000

2000

0

Time-->

2.30 2.35 2.40



#18

Methyl Acetate

Concen: 1.457 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU024704.D

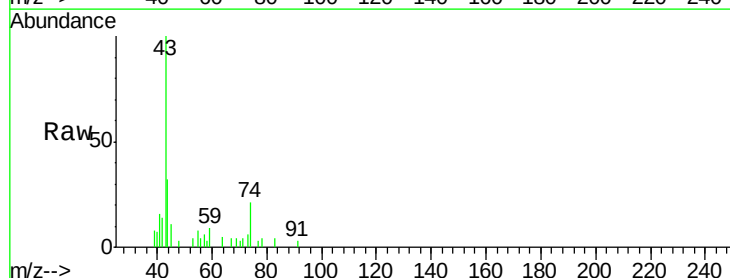
Acq: 18 Jun 2018 20:15

Tgt Ion: 43 Resp: 5495

Ion Ratio Lower Upper

43 100

74 25.0 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

2.62

4000

3000

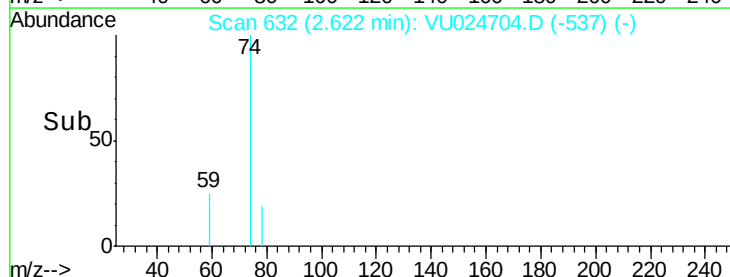
2000

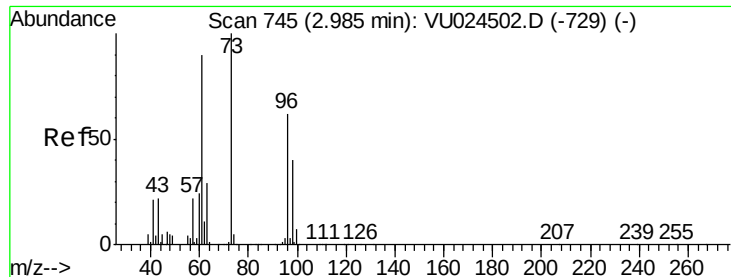
1000

0

Time-->

2.55 2.60 2.65





#21

trans-1,2-Dichloroethene

Concen: 3.730 ug/l

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

S36-0141

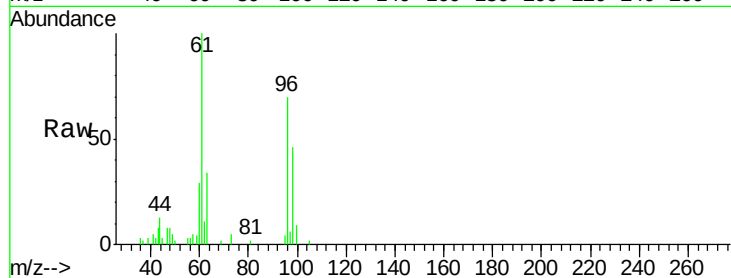
Tgt Ion: 96 Resp: 9381

Ion Ratio Lower Upper

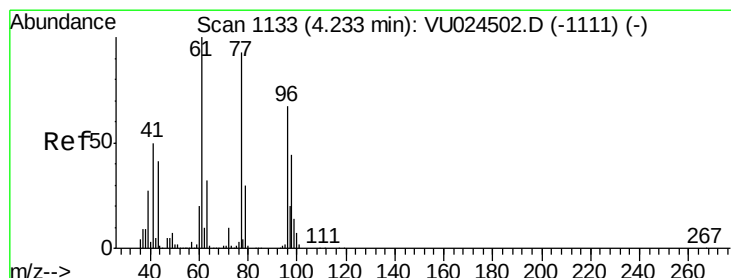
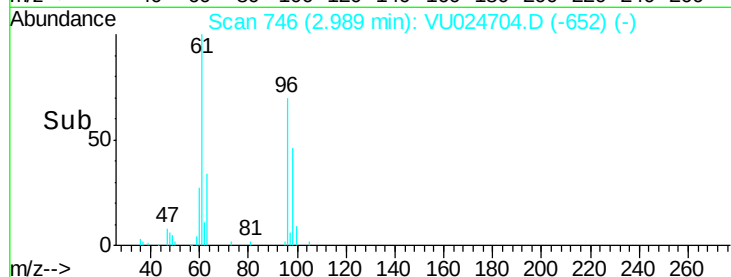
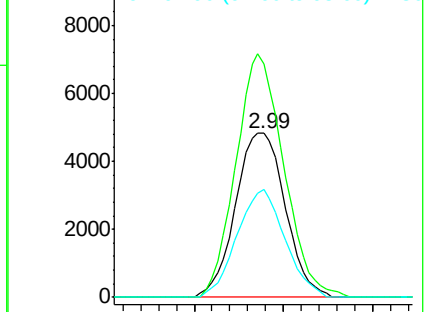
96 100

61 142.1 119.4 179.0

98 65.4 51.1 76.7



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#27

cis-1,2-Dichloroethene

Concen: 50.729 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

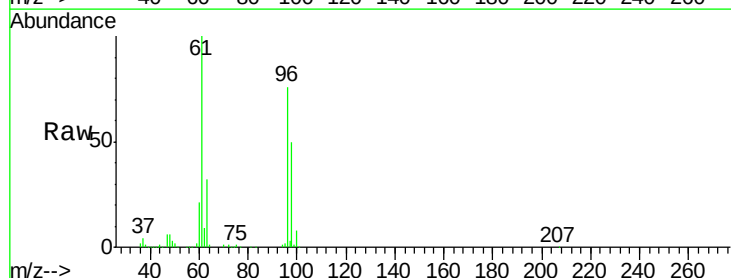
Tgt Ion: 96 Resp: 146668

Ion Ratio Lower Upper

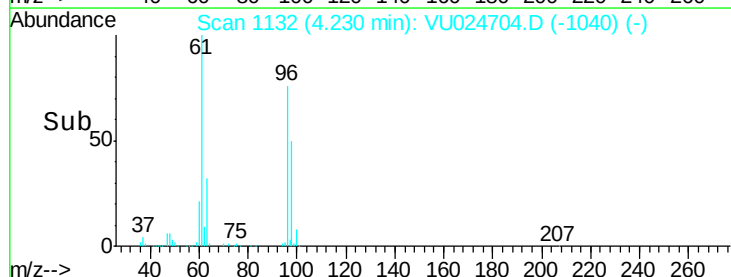
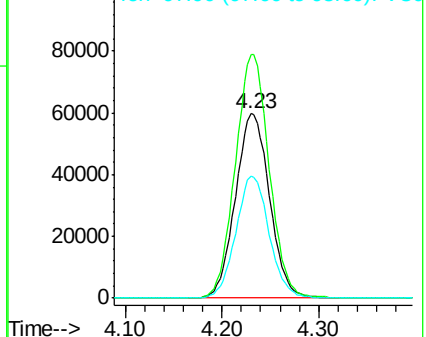
96 100

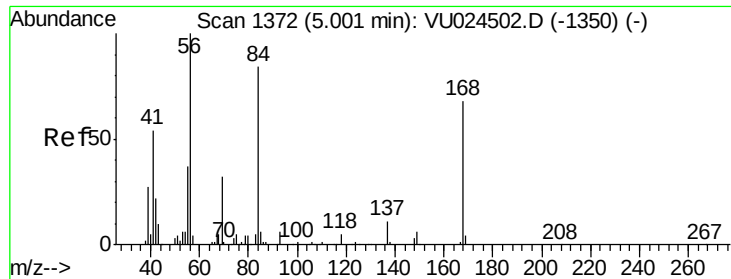
61 130.8 0.0 306.6

98 64.6 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

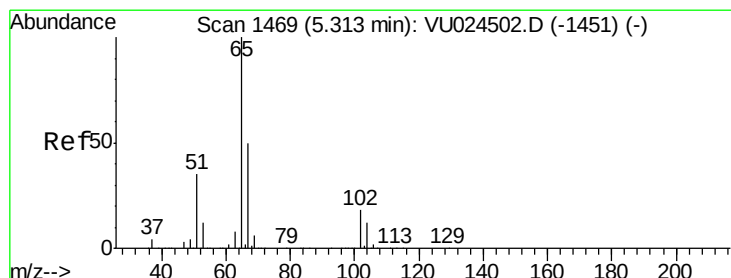
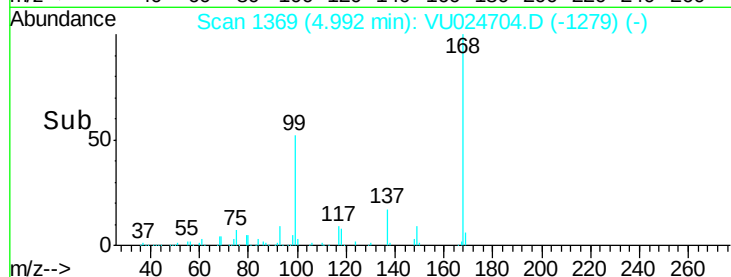
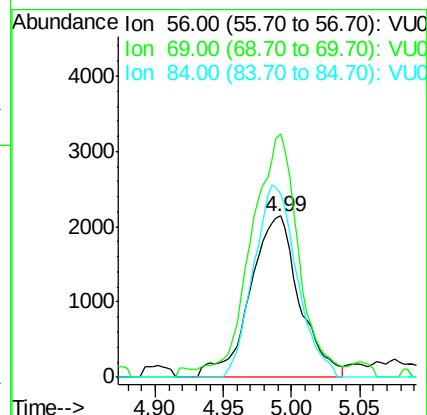
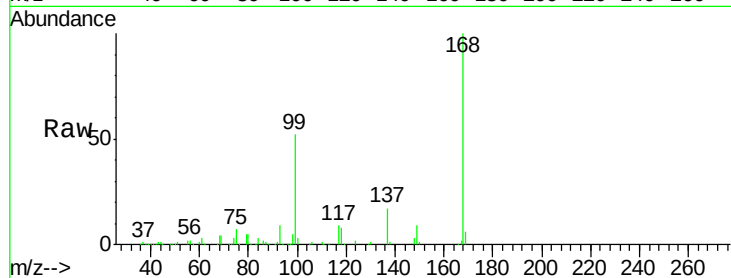




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VU024704.D
Acq: 18 Jun 2018 20:15

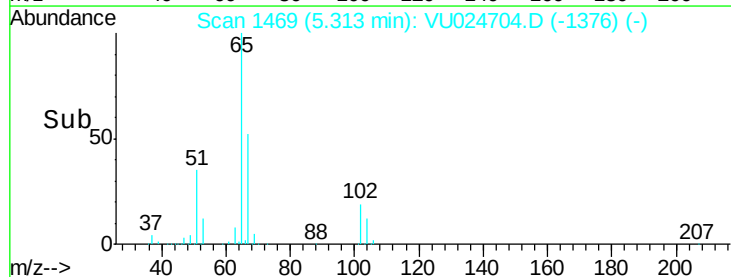
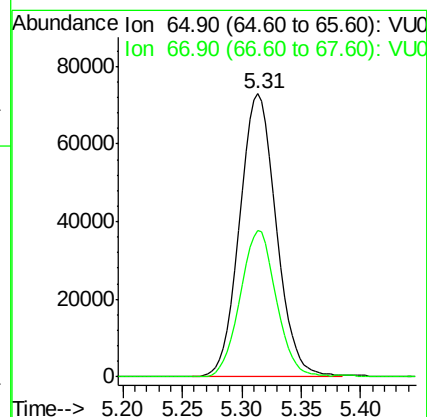
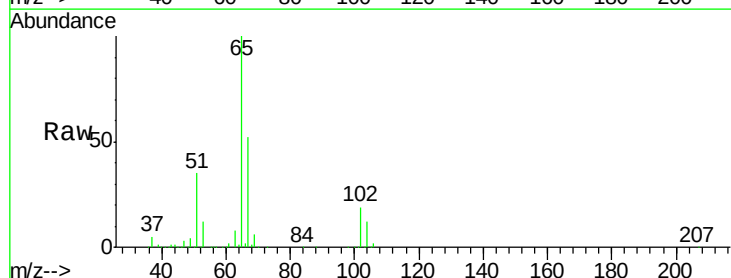
Instrument :
MSVOA_U
ClientSampleId :
S36-0141

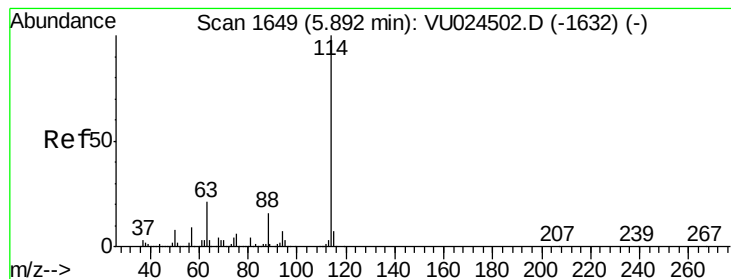
Tgt Ion: 56 Resp: 5381
Ion Ratio Lower Upper
56 100
69 146.1 24.8 37.2#
84 113.7 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 47.494 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU024704.D
Acq: 18 Jun 2018 20:15

Tgt Ion: 65 Resp: 155480
Ion Ratio Lower Upper
65 100
67 51.0 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: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

S36-0141

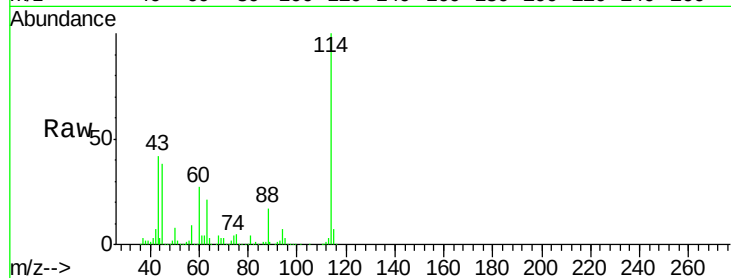
Tgt Ion:114 Resp: 327216

Ion Ratio Lower Upper

114 100

63 21.4 0.0 45.4

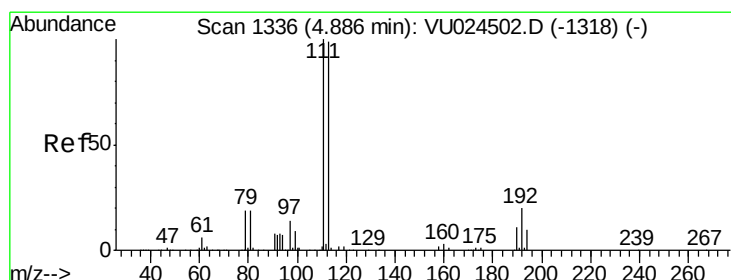
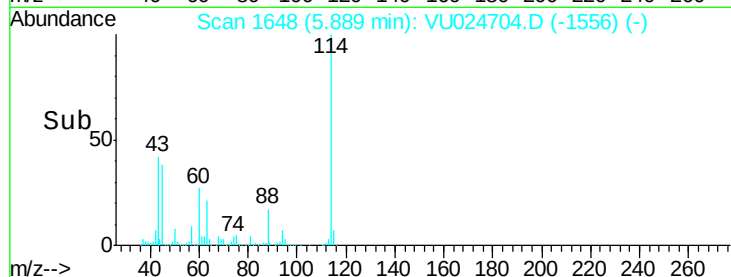
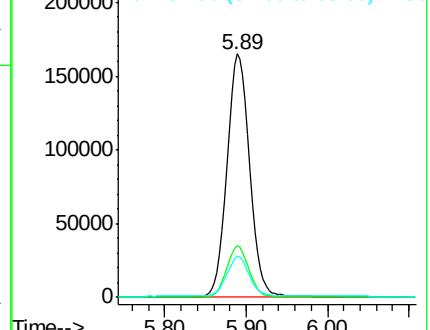
88 16.3 0.0 31.0



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: 47.504 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

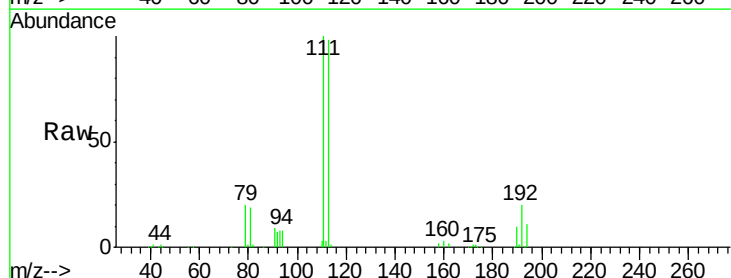
Tgt Ion:113 Resp: 129004

Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

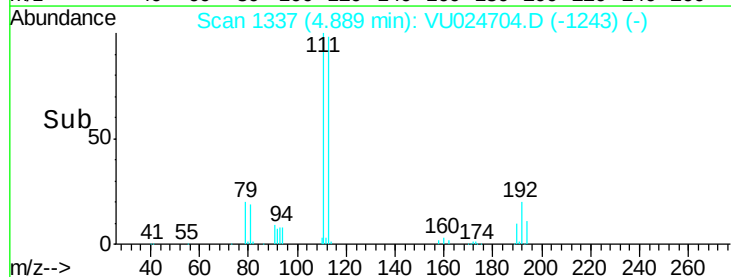
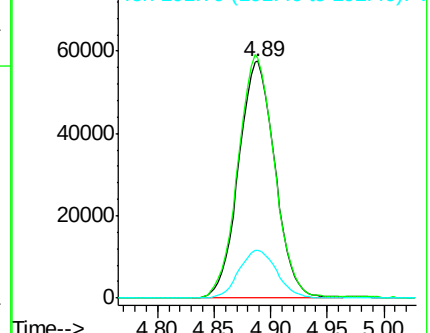
192 20.9 16.2 24.4

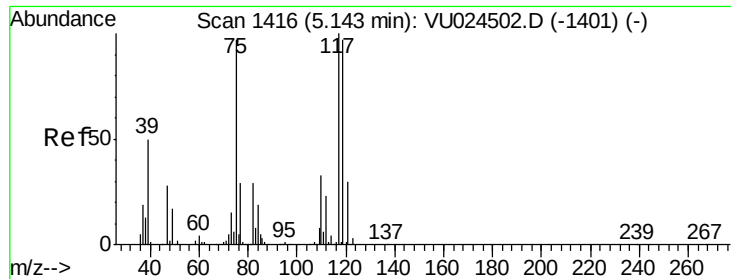


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

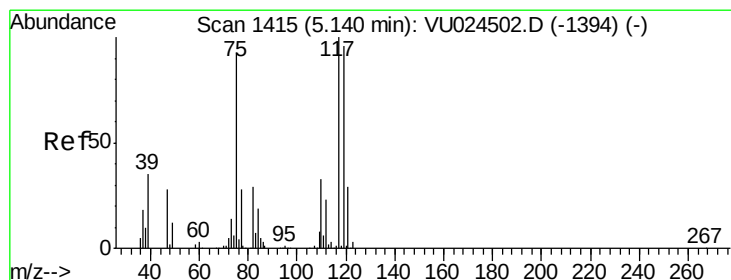
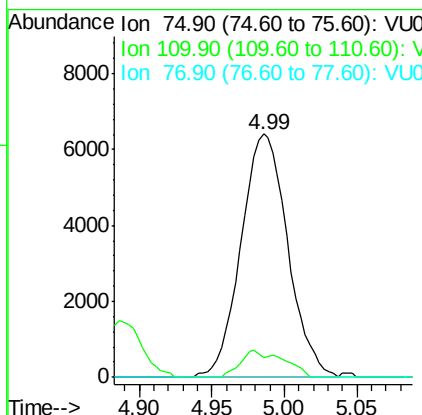
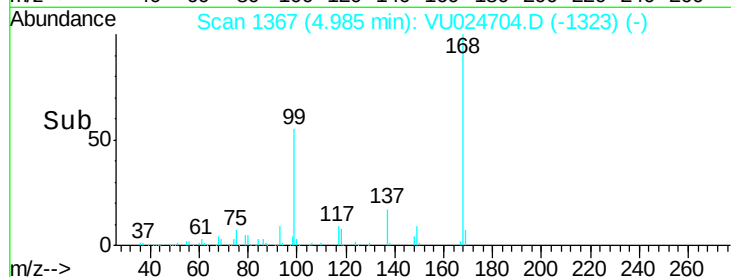
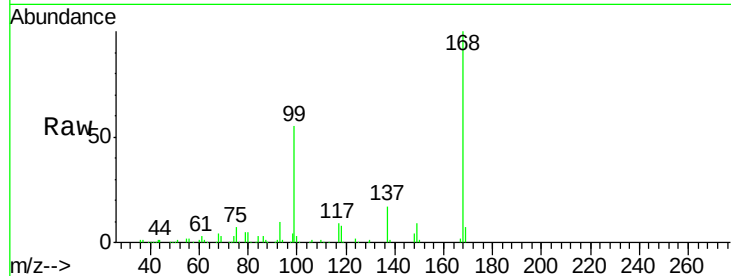




#36
 1,1-Dichloropropene
 Concen: 3.733 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024704.D
 Acq: 18 Jun 2018 20:15

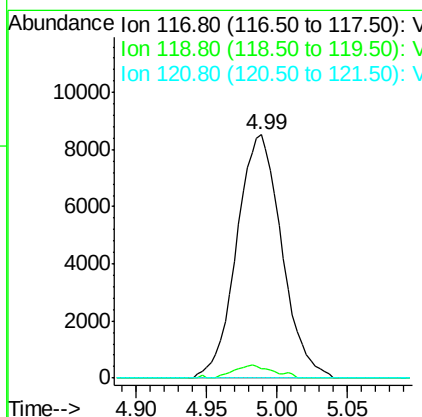
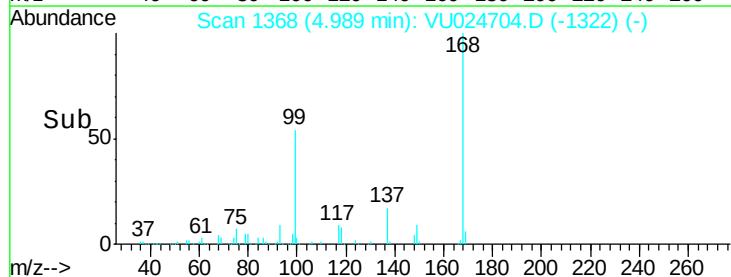
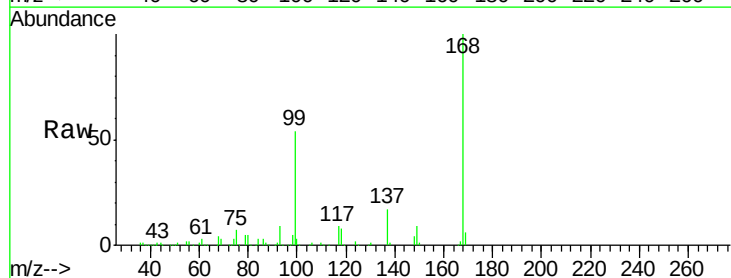
Instrument :
 MSVOA_U
 ClientSampleId :
 S36-0141

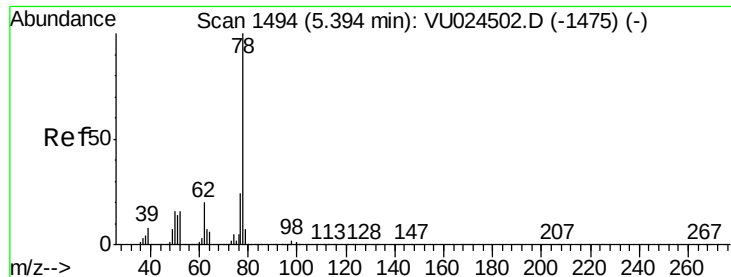
Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.0	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.493 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024704.D
 Acq: 18 Jun 2018 20:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	76.1	114.1#
121	0.0	23.7	35.5#





#40

Benzene

Concen: 1.791 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

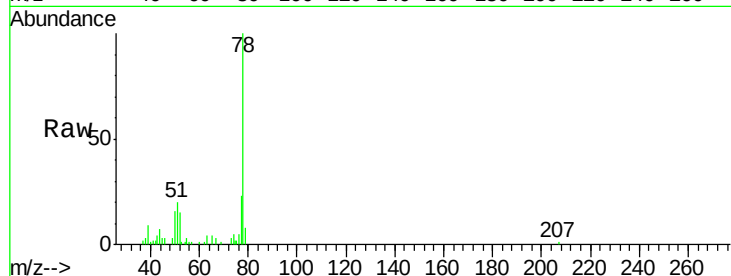
S36-0141

Tgt Ion: 78 Resp: 19622

Ion Ratio Lower Upper

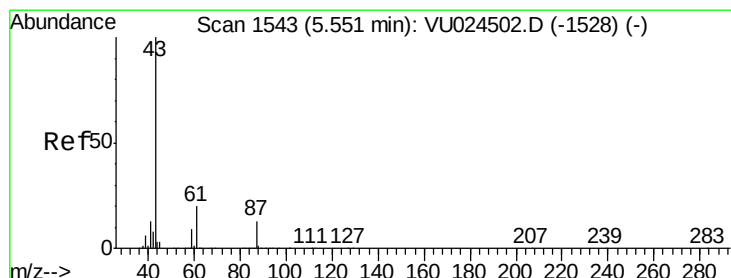
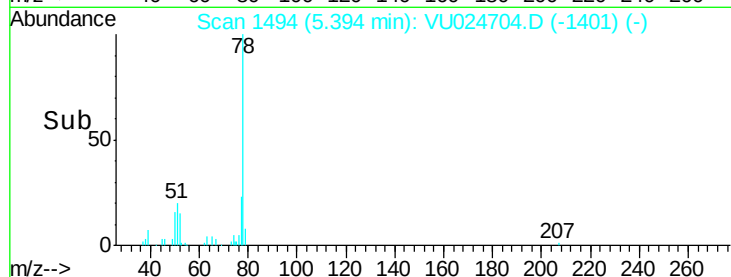
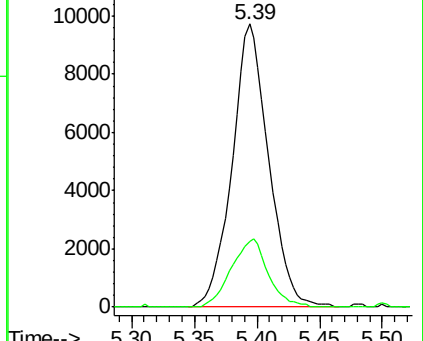
78 100

77 23.2 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#43

Isopropyl Acetate

Concen: 19.901 ug/l

RT: 5.78 min Scan# 1615

Delta R.T. 0.23 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

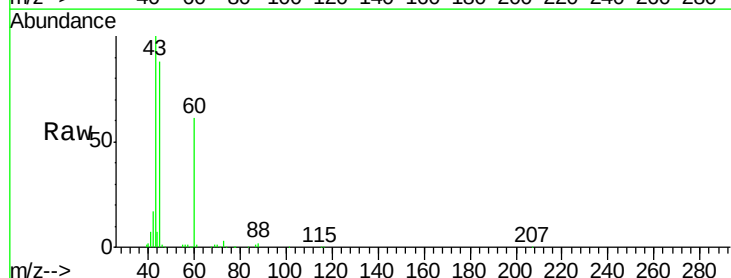
Tgt Ion: 43 Resp: 144165

Ion Ratio Lower Upper

43 100

61 0.6 15.4 23.0#

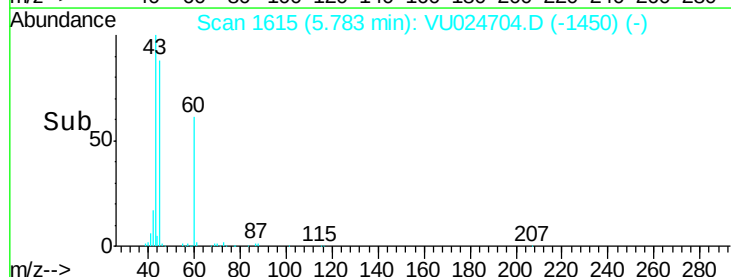
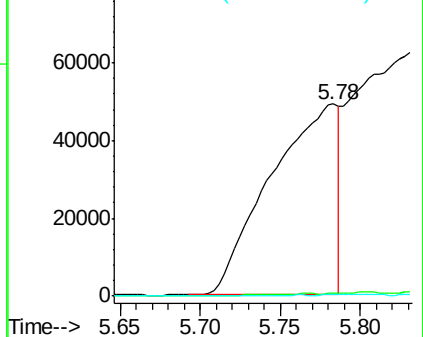
87 0.2 10.0 15.0#

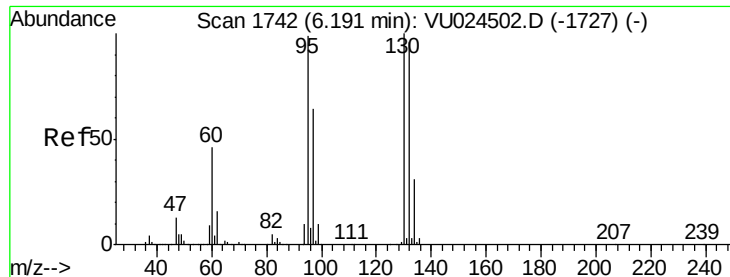


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#44

Trichloroethene

Concen: 0.228 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

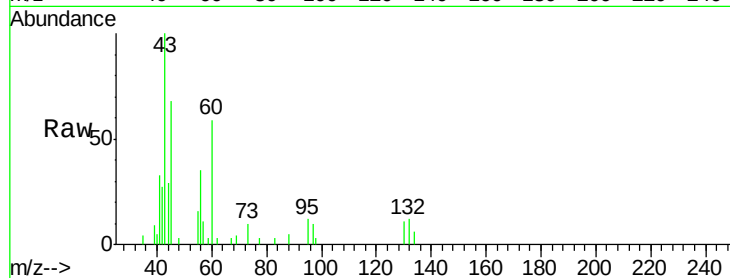
S36-0141

Tgt Ion:130 Resp: 711

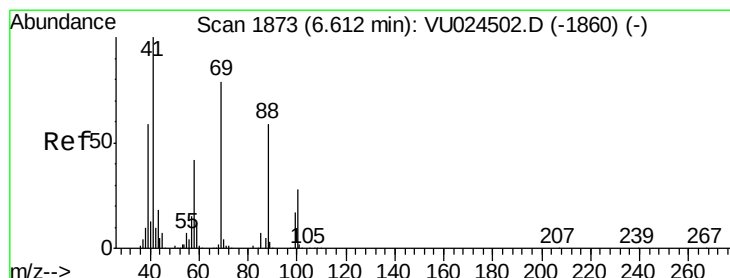
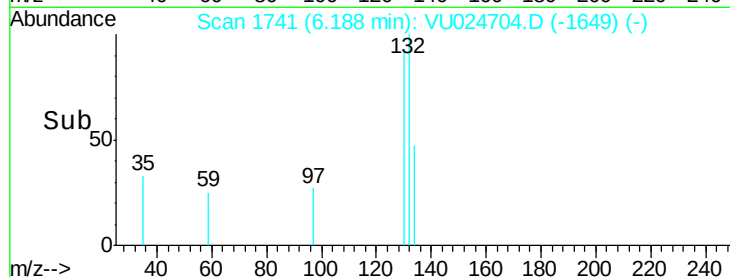
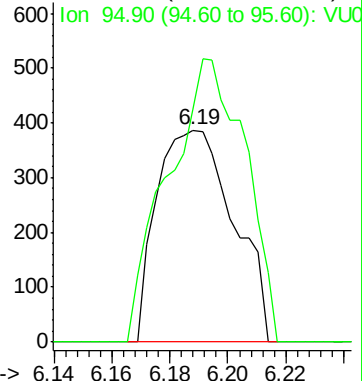
Ion Ratio Lower Upper

130 100

95 109.6 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024704.D (-1649) (-)



#49

1,4-Dioxane

Concen: 11.988 ug/l

RT: 6.63 min Scan# 1878

Delta R.T. 0.02 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

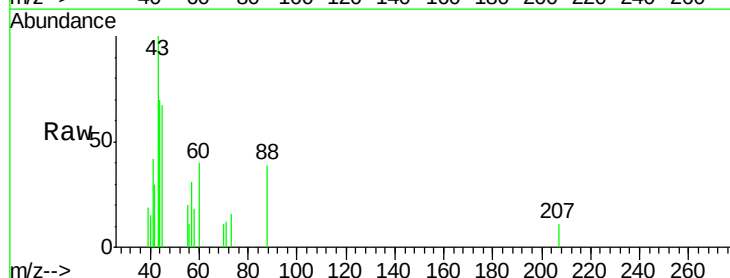
Tgt Ion: 88 Resp: 827

Ion Ratio Lower Upper

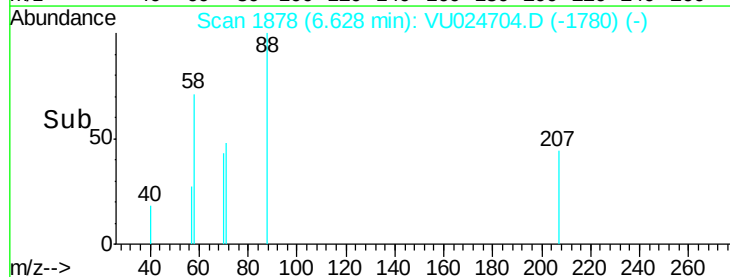
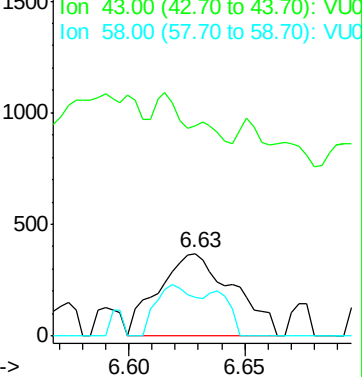
88 100

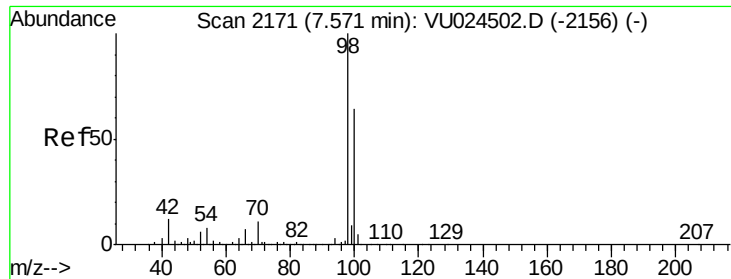
43 10.4 28.6 42.8#

58 34.3 58.2 87.4#



Abundance Ion 88.00 (87.70 to 88.70): VU024704.D (-1780) (-)

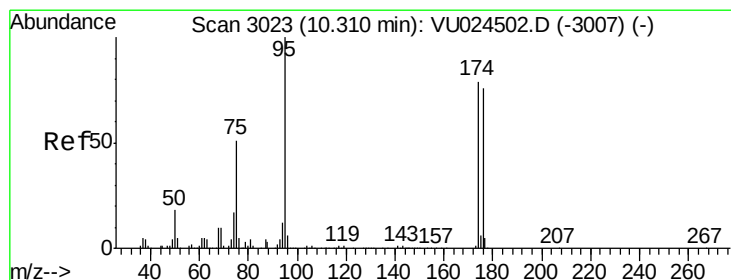
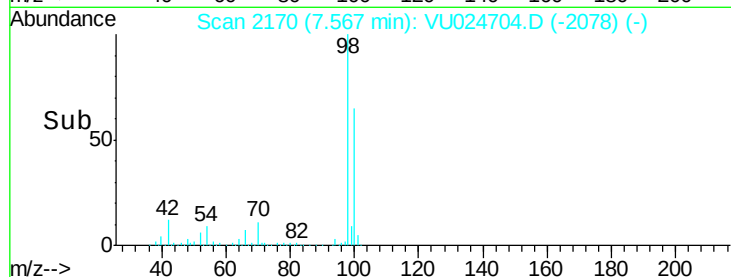
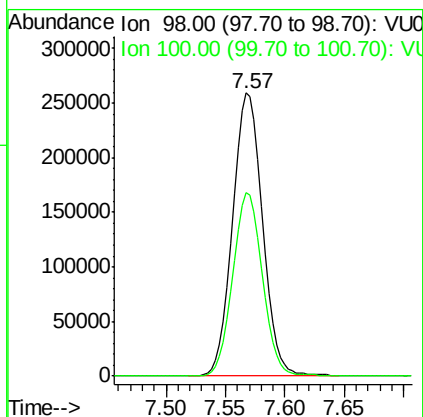
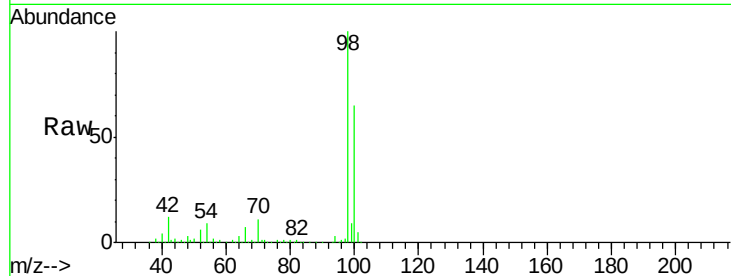




#50
Toluene-d8
Concen: 45.818 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU024704.D
Acq: 18 Jun 2018 20:15

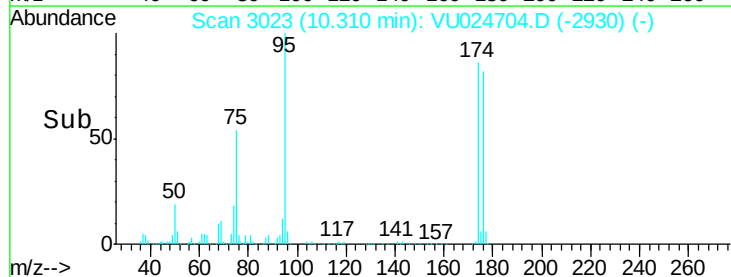
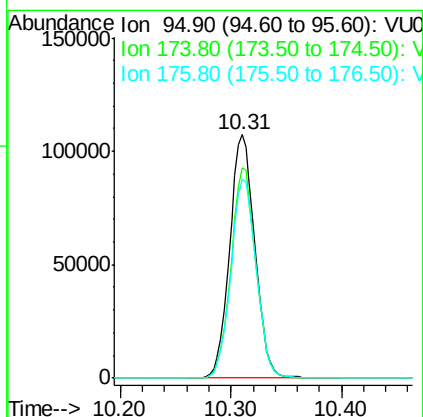
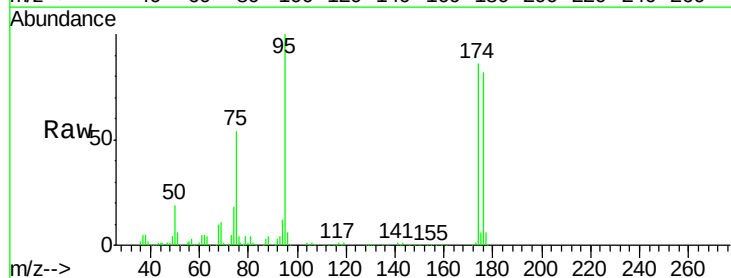
Instrument :
MSVOA_U
ClientSampleId :
S36-0141

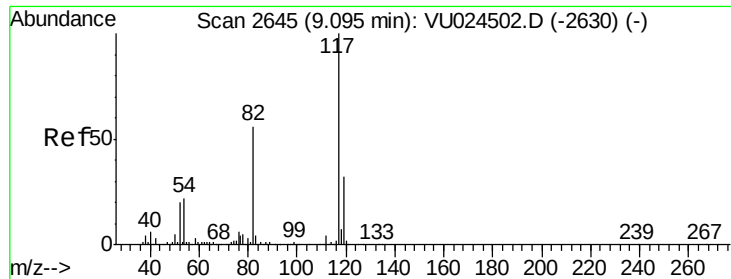
Tgt Ion: 98 Resp: 453856
Ion Ratio Lower Upper
98 100
100 64.2 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 43.223 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024704.D
Acq: 18 Jun 2018 20:15

Tgt Ion: 95 Resp: 169990
Ion Ratio Lower Upper
95 100
174 85.1 0.0 165.8
176 82.2 0.0 159.4

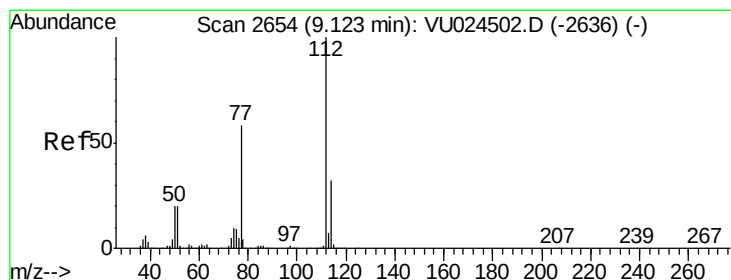
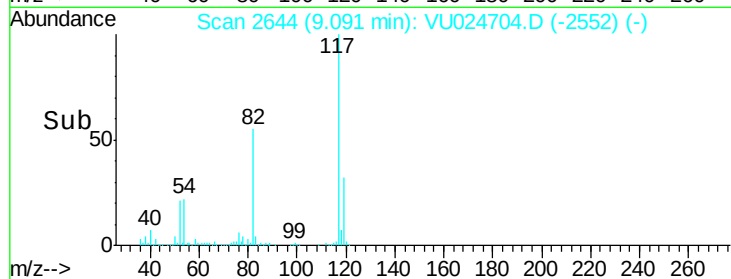
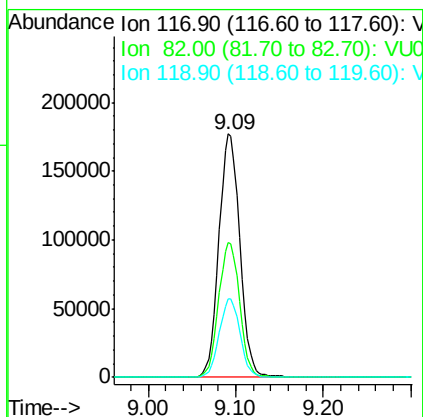
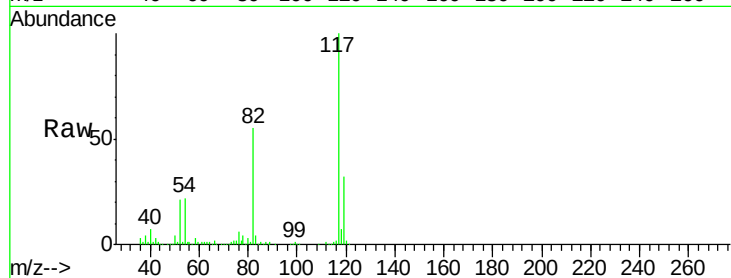




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024704.D
Acq: 18 Jun 2018 20:15

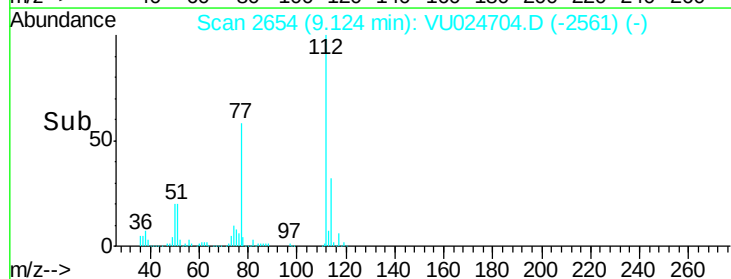
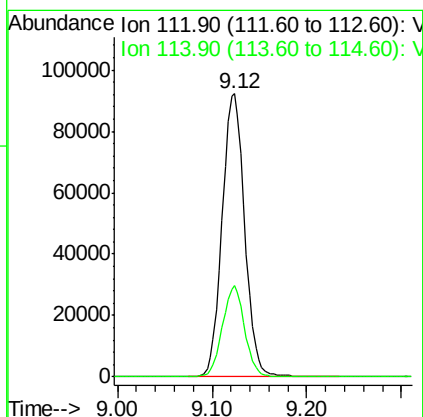
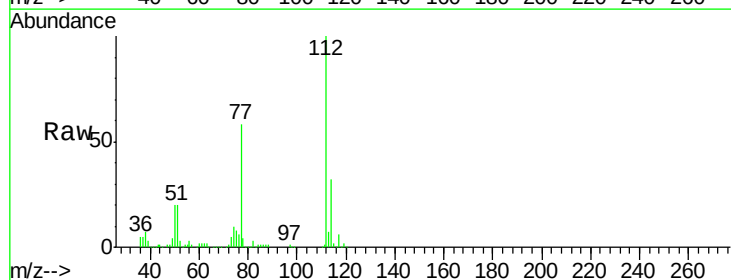
Instrument :
MSVOA_U
ClientSampleId :
S36-0141

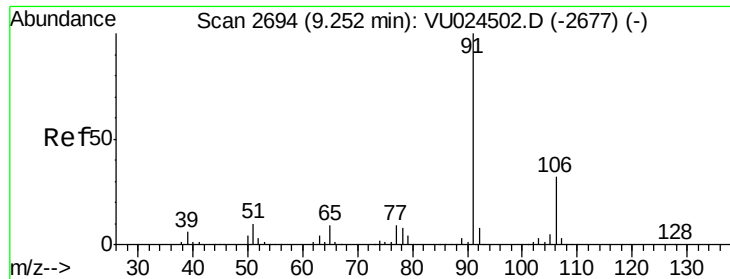
Tgt Ion:117 Resp: 294456
Ion Ratio Lower Upper
117 100
82 55.4 44.3 66.5
119 32.1 25.4 38.2



#65
Chlorobenzene
Concen: 20.301 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU024704.D
Acq: 18 Jun 2018 20:15

Tgt Ion:112 Resp: 152711
Ion Ratio Lower Upper
112 100
114 32.2 25.6 38.4

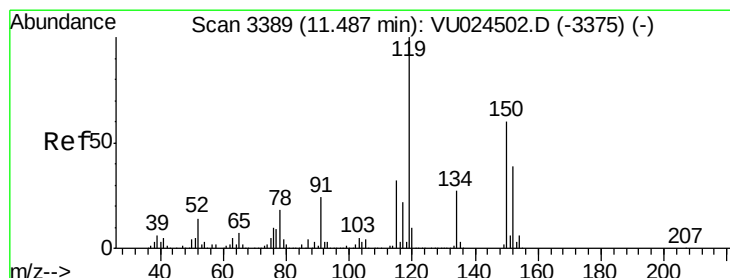
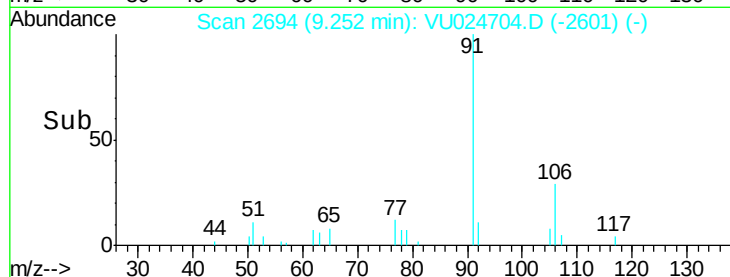
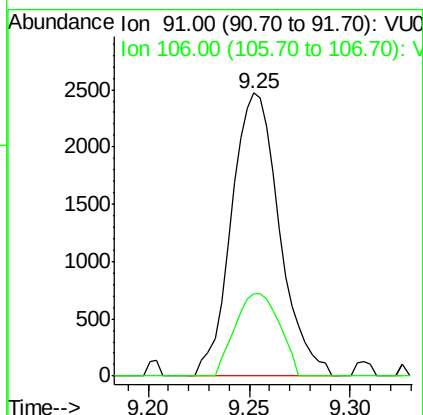
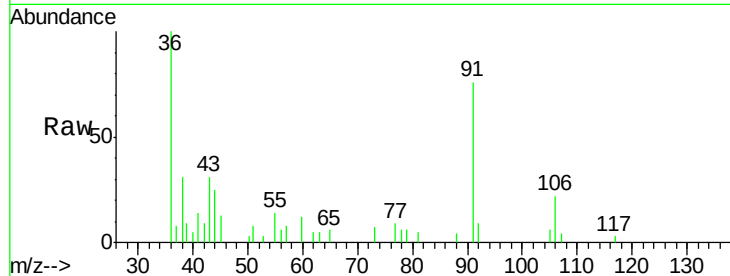




#67
 Ethyl Benzene
 Concen: 0.312 ug/l
 RT: 9.25 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: VU024704.D
 Acq: 18 Jun 2018 20:15

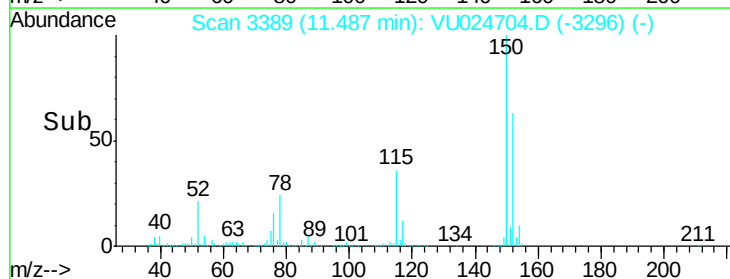
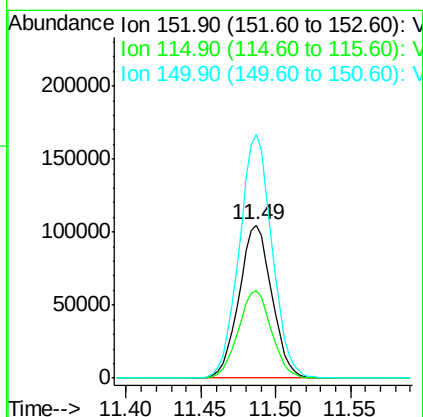
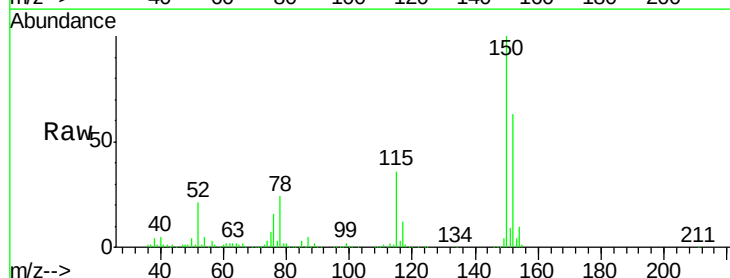
Instrument :
 MSVOA_U
 ClientSampled :
 S36-0141

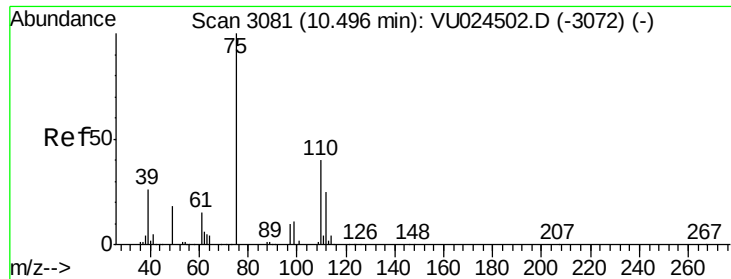
Tgt Ion: 91 Resp: 4113
 Ion Ratio Lower Upper
 91 100
 106 29.0 24.2 36.4



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.49 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU024704.D
 Acq: 18 Jun 2018 20:15

Tgt Ion: 152 Resp: 160005
 Ion Ratio Lower Upper
 152 100
 115 57.9 43.0 129.0
 150 159.2 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 25.098 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Instrument :

MSVOA_U

ClientSampleId :

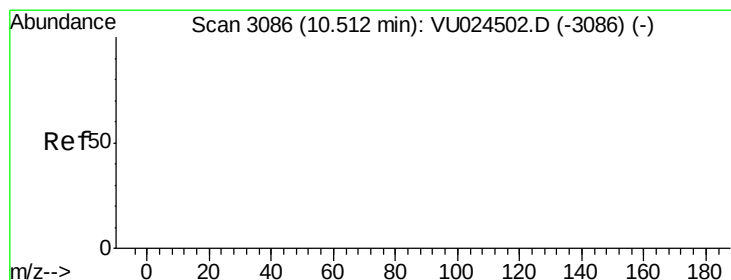
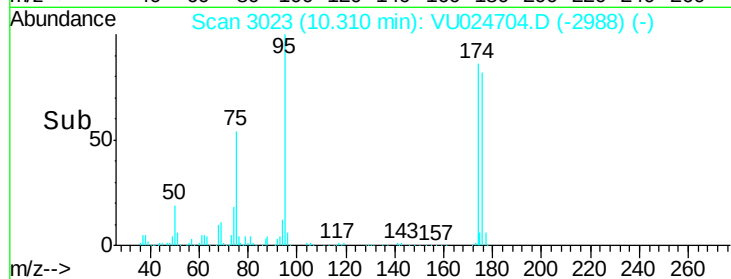
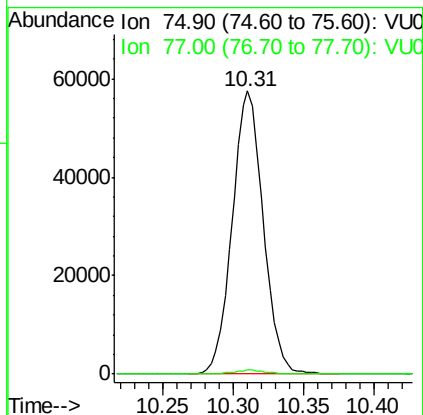
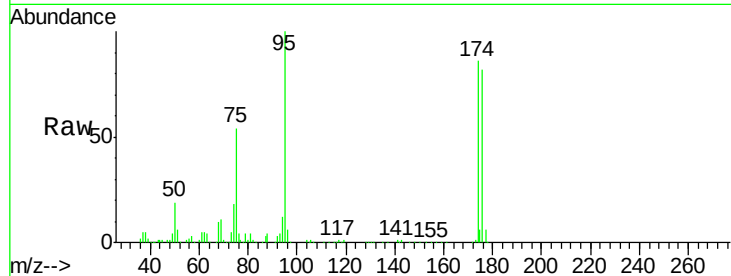
S36-0141

Tgt Ion: 75 Resp: 88412

Ion Ratio Lower Upper

75 100

77 1.5 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 58.086 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

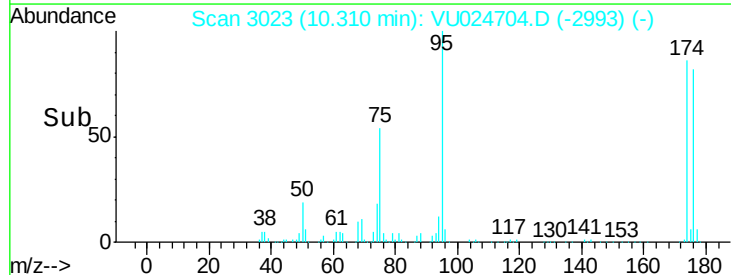
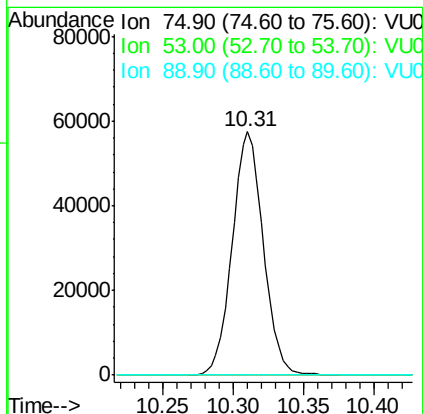
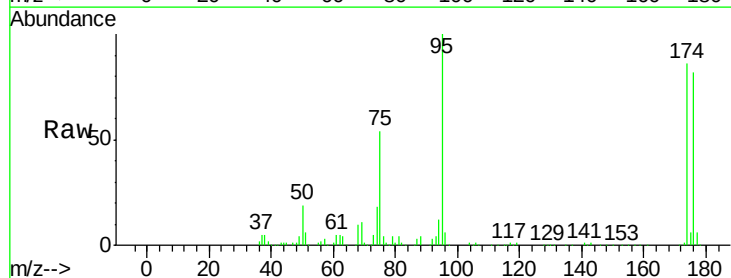
Tgt Ion: 75 Resp: 88412

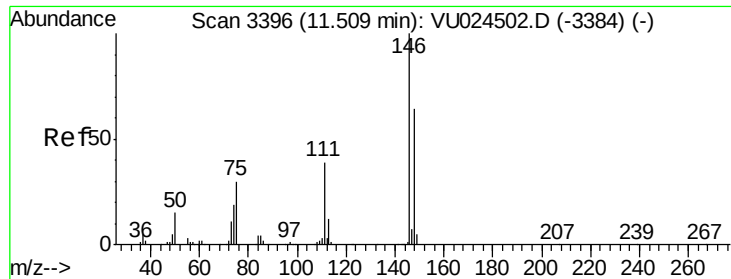
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#88

1,4-Dichlorobenzene

Concen: 1.144 ug/l

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

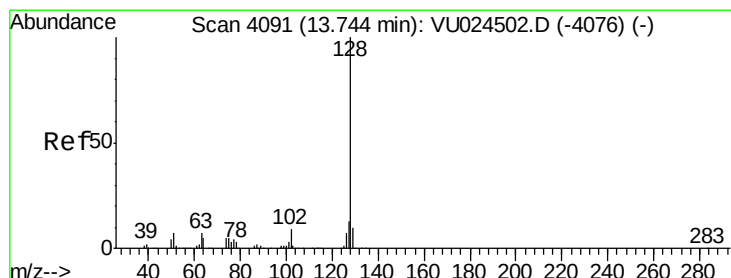
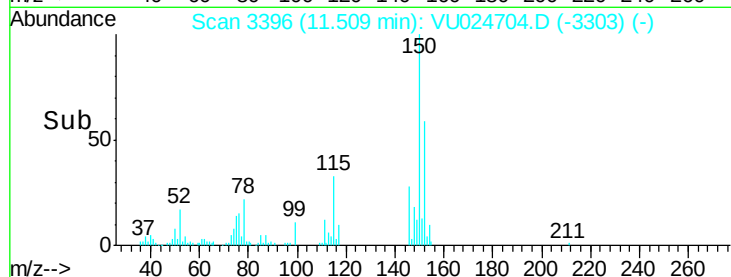
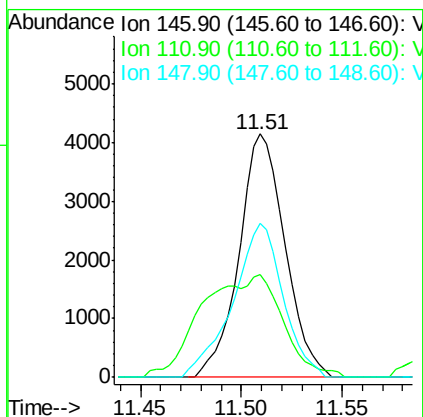
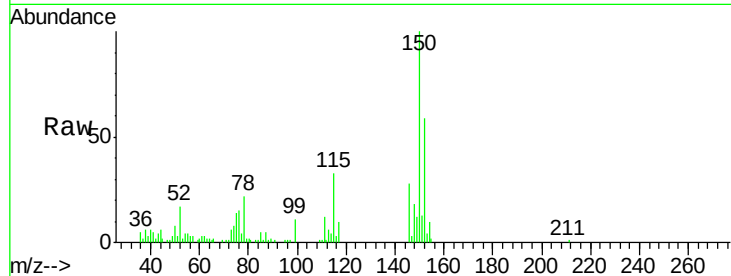
Instrument :

MSVOA_U

ClientSampled :

S36-0141

Tgt Ion:	146	Resp:	6617
Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.5	58.5
148	68.7	32.4	97.0



#95

Naphthalene

Concen: 0.869 ug/l

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU024704.D

Acq: 18 Jun 2018 20:15

Tgt Ion:	128	Resp:	2259
Ion	Ratio	Lower	Upper
128	100		
127	26.2	10.6	16.0#
129	7.4	8.6	12.8#

