

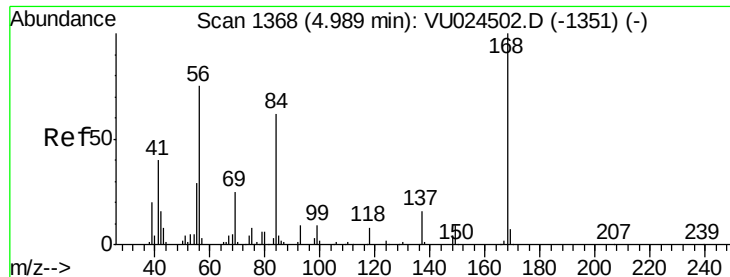
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025147.D
 Acq On : 02 Jul 2018 16:49
 Operator : MD/SY
 Sample : J3248-10
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EO-03-062818-B

Quant Time: Jul 03 03:00:18 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	206289	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	313796	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	291178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	155691	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	159604	47.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.78%	
35) Dibromofluoromethane	4.89	113	124025	47.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.24%	
50) Toluene-d8	7.57	98	449059	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
62) 4-Bromofluorobenzene	10.31	95	166676	44.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.38%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	633	0.240	ug/l #	73
6) Chloroethane	1.71	64	229	Below Cal	#	43
8) Diethyl Ether	2.11	74	73	Below Cal	#	1
11) Tert butyl alcohol	2.83	59	5652	6.901	ug/l #	94
14) Allyl chloride	2.70	41	31719	7.273	ug/l #	21
16) Acetone	2.32	43	40526	22.397	ug/l	97
18) Methyl Acetate	2.62	43	19296	4.974	ug/l	97
20) Methylene Chloride	2.71	84	924086	325.476	ug/l	98
25) 2-Butanone	4.27	43	7648	3.147	ug/l #	86
29) Tetrahydrofuran	4.65	42	1234	0.820	ug/l #	76
30) Chloroform	4.68	83	1232	0.245	ug/l #	81
31) Cyclohexane	4.99	56	4605	Below Cal	#	8
36) 1,1-Dichloropropene	4.99	75	15163	4.112	ug/l #	53
38) Carbon Tetrachloride	4.99	117	19583	4.830	ug/l #	17
43) Isopropyl Acetate	5.80	43	99486	14.321	ug/l #	62
51) 4-Methyl-2-Pentanone	7.47	43	2763	0.633	ug/l	93
59) 2-Hexanone	8.38	43	1929	0.541	ug/l	76
76) 1,2,3-Trichloropropane	10.31	75	86342	25.189	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	86342	58.298	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	3049	0.289	ug/l	97
85) sec-Butylbenzene	11.15	105	3049	0.244	ug/l #	57
95) Naphthalene	13.75	128	146659	13.316	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

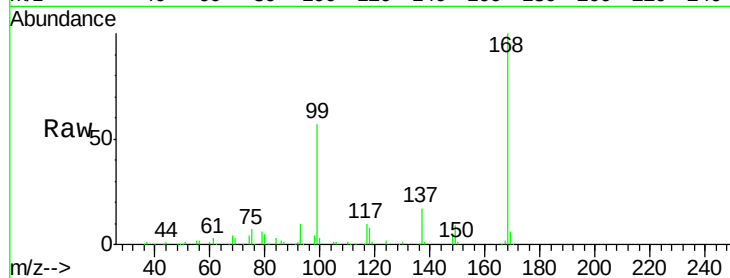
EO-03-062818-B

Tot Ion:168 Resp: 206289

Ion Ratio Lower Upper

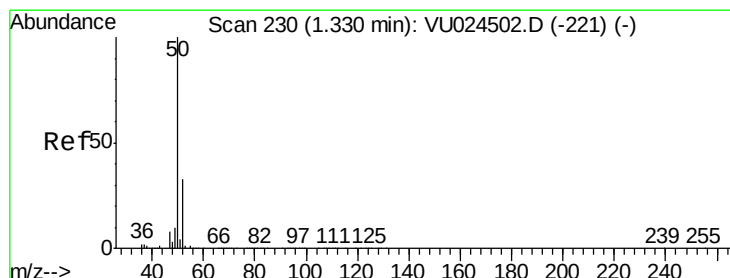
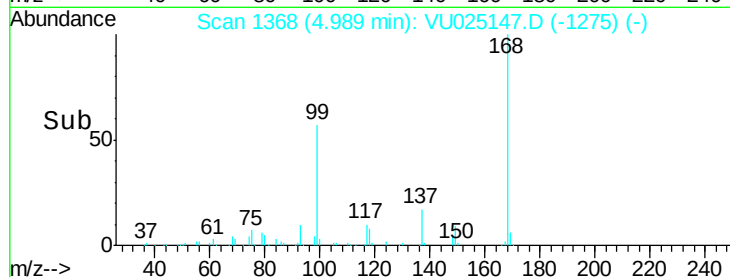
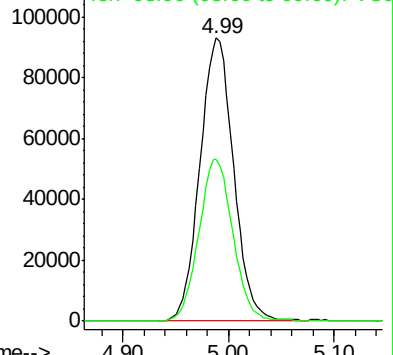
168 100

99 57.3 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: 0.240 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025147.D

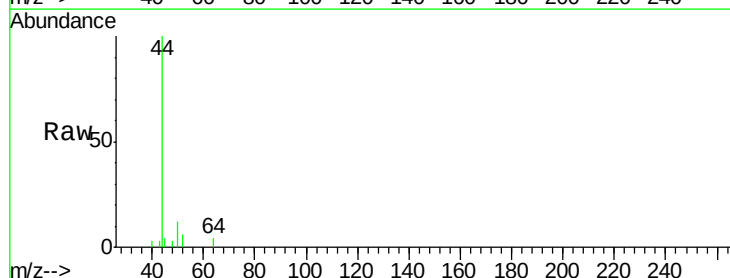
Acq: 02 Jul 2018 16:49

Tgt Ion: 50 Resp: 633

Ion Ratio Lower Upper

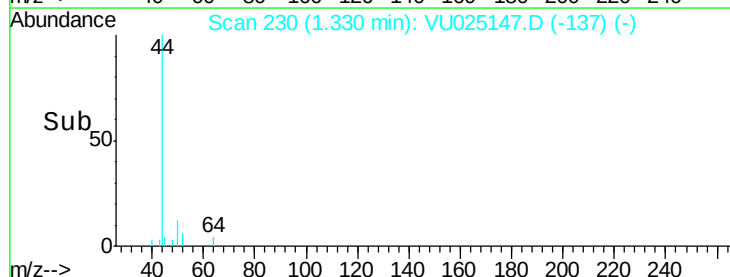
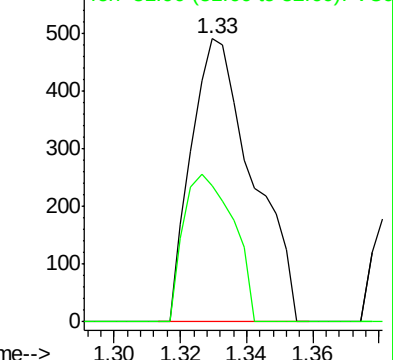
50 100

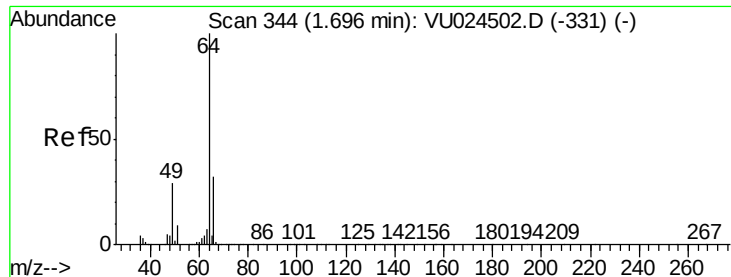
52 48.3 26.4 39.6#



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: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

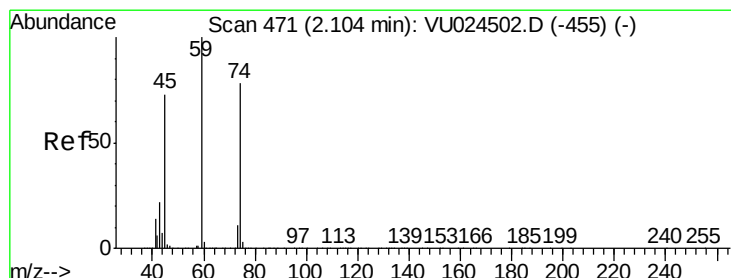
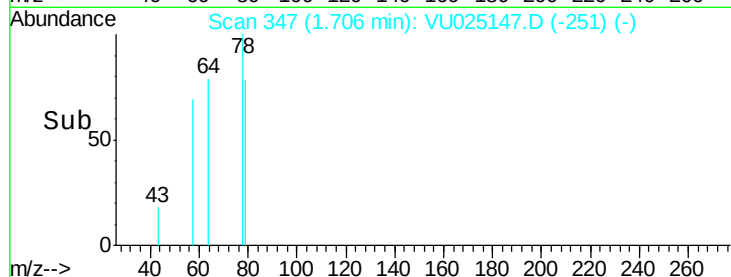
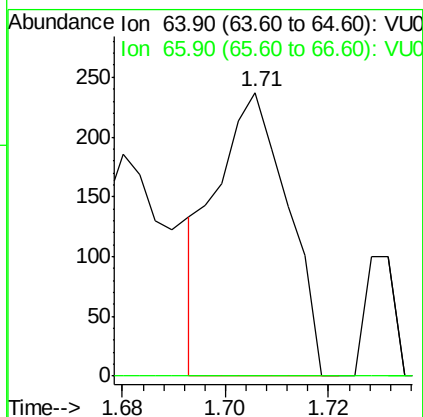
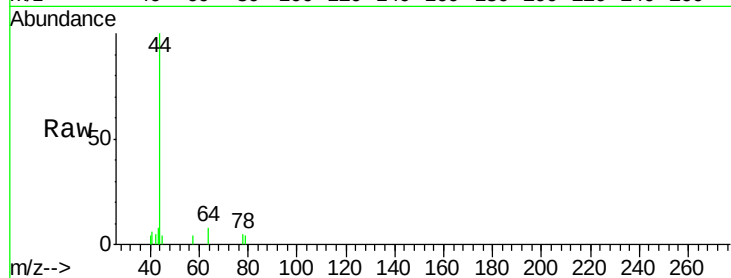
EO-03-062818-B

Tot Ion: 64 Resp: 229

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU025147.D

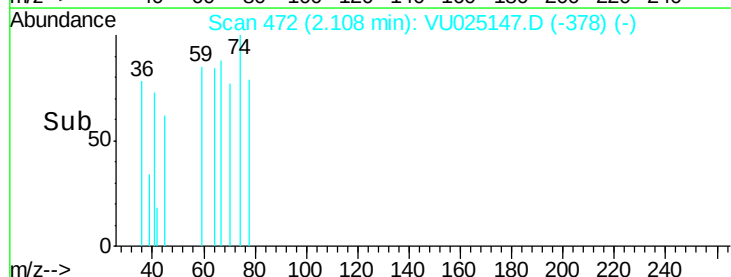
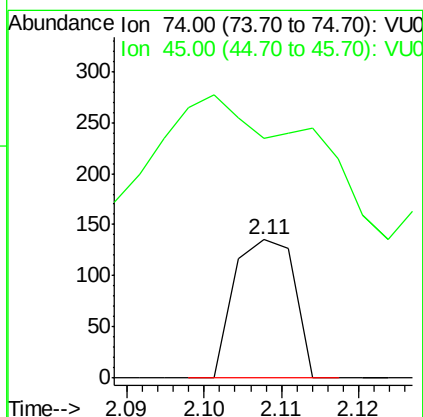
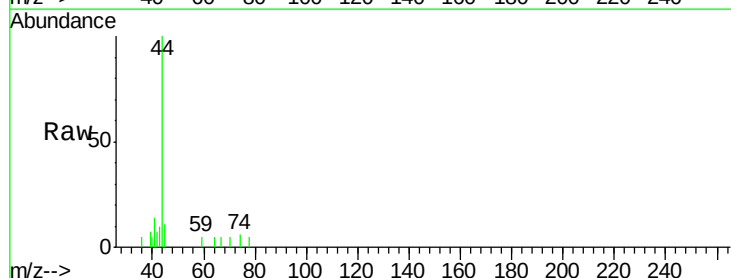
Acq: 02 Jul 2018 16:49

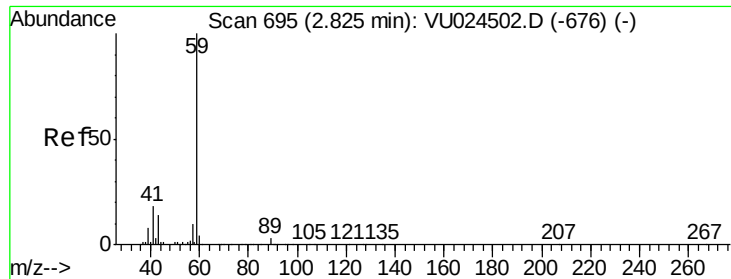
Tgt Ion: 74 Resp: 73

Ion Ratio Lower Upper

74 100

45 268.5 55.0 165.0#



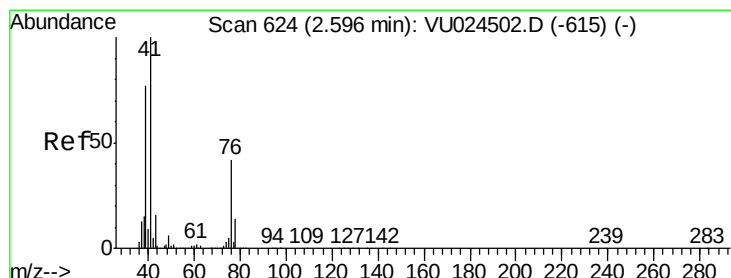
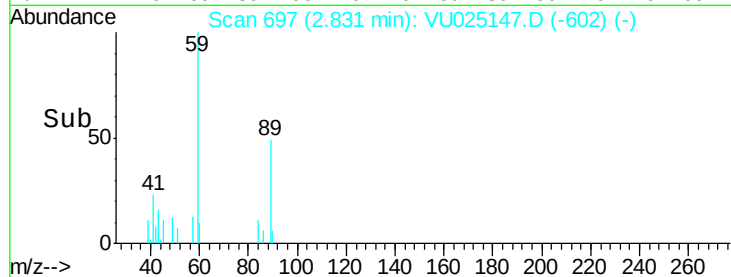
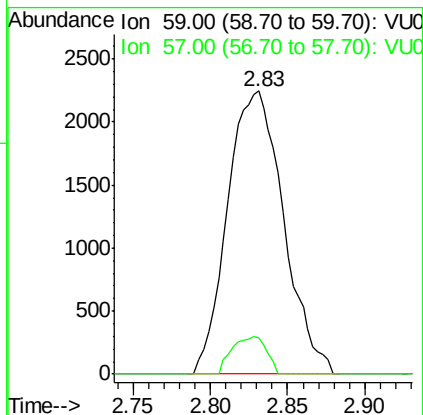
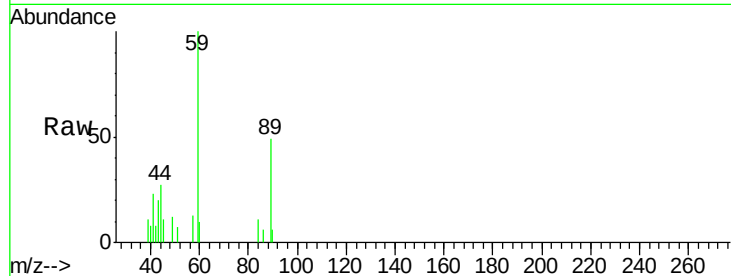


#11

Tert butyl alcohol
 Concen: 6.901 ug/l
 RT: 2.83 min Scan# 697
 Delta R.T. 0.01 min
 Lab File: VU025147.D
 Acq: 02 Jul 2018 16:49

Instrument :
 MSVOA_U
 ClientSampleId :
 EO-03-062818-B

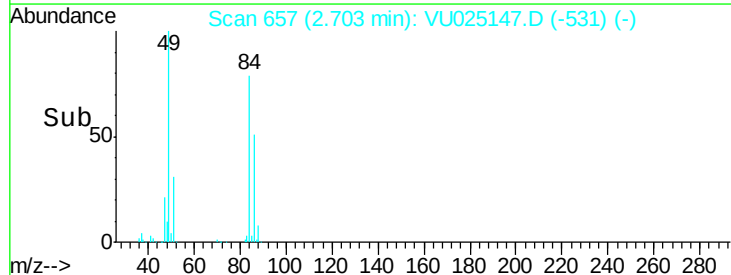
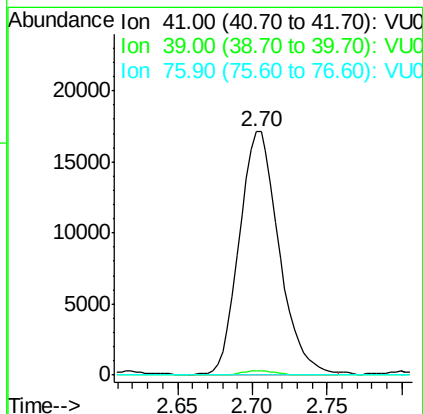
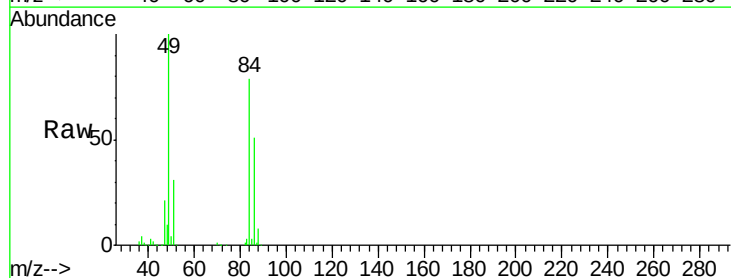
Tot Ion: 59 Resp: 5652
 Ion Ratio Lower Upper
 59 100
 57 8.2 8.5 12.7#

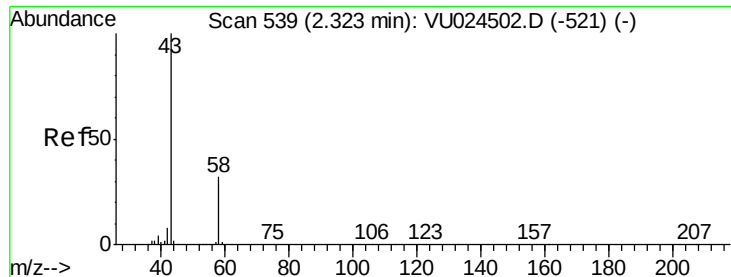


#14

Allyl chloride
 Concen: 7.273 ug/l
 RT: 2.70 min Scan# 657
 Delta R.T. 0.11 min
 Lab File: VU025147.D
 Acq: 02 Jul 2018 16:49

Tgt Ion: 41 Resp: 31719
 Ion Ratio Lower Upper
 41 100
 39 1.4 61.6 92.4#
 76 0.0 29.7 44.5#





#16

Acetone

Concen: 22.397 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

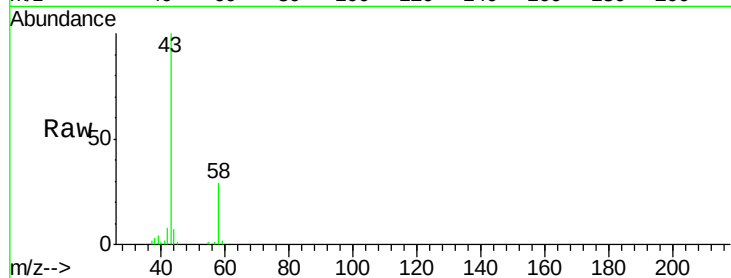
EO-03-062818-B

Tot Ion: 43 Resp: 40526

Ion Ratio Lower Upper

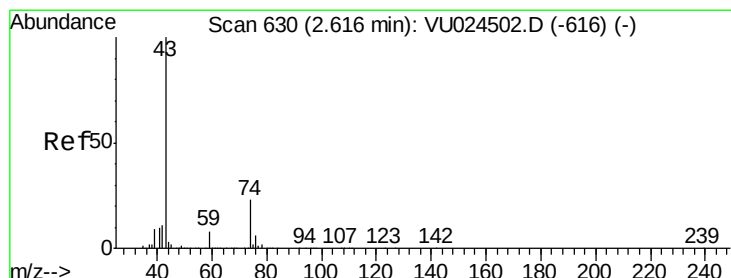
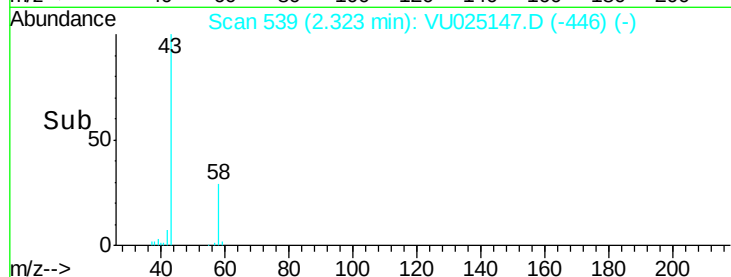
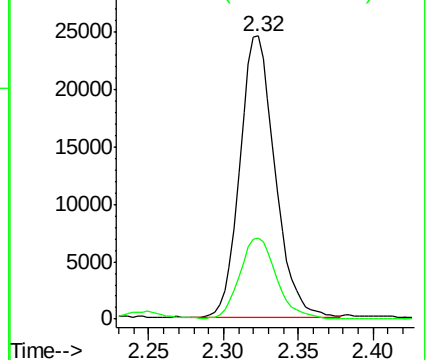
43 100

58 29.0 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 4.974 ug/l

RT: 2.62 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU025147.D

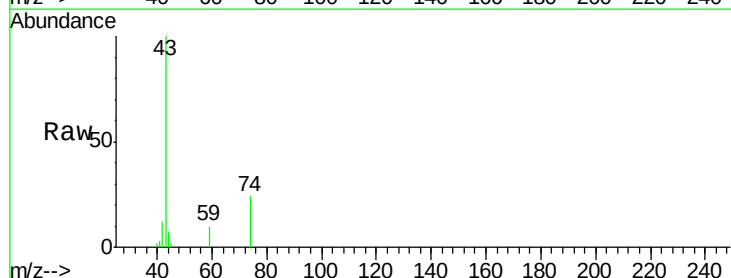
Acq: 02 Jul 2018 16:49

Tgt Ion: 43 Resp: 19296

Ion Ratio Lower Upper

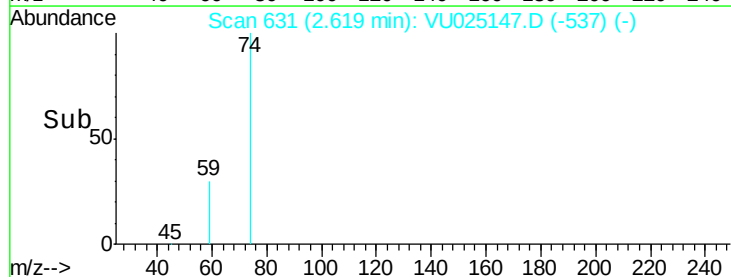
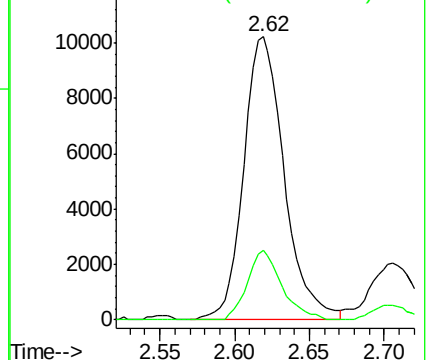
43 100

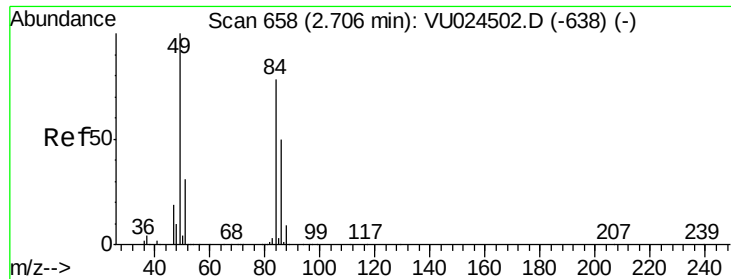
74 20.9 18.0 27.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

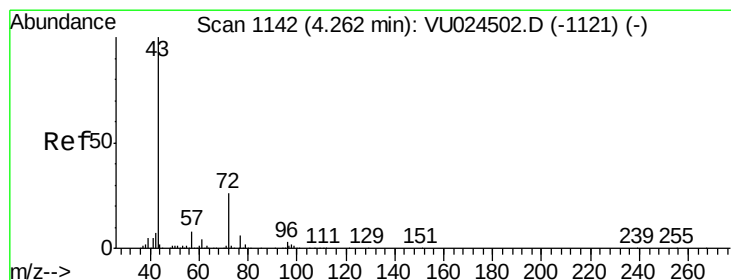
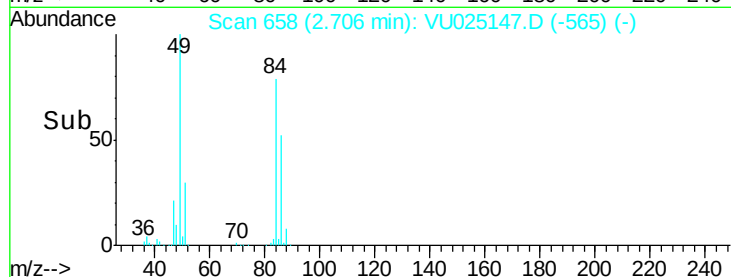
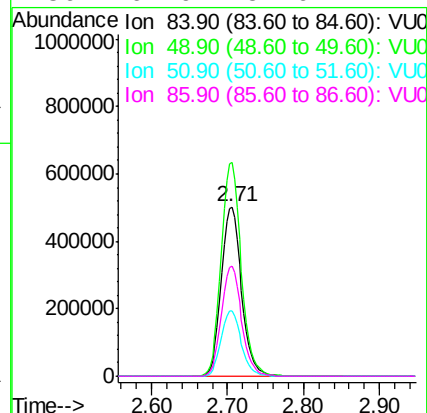
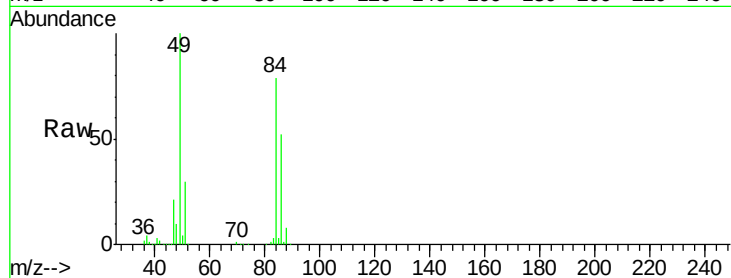




#20
Methylene Chloride
Concen: 325.476 ug/l
RT: 2.71 min Scan# 658
Delta R.T. -0.00 min
Lab File: VU025147.D
Acq: 02 Jul 2018 16:49

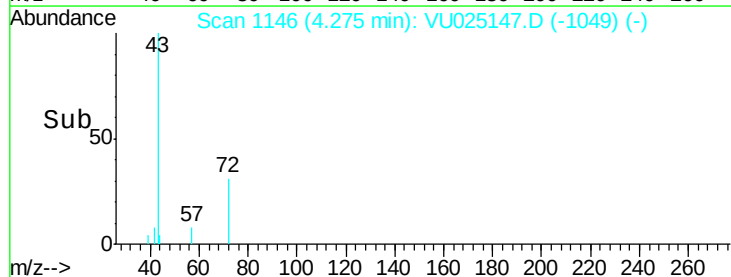
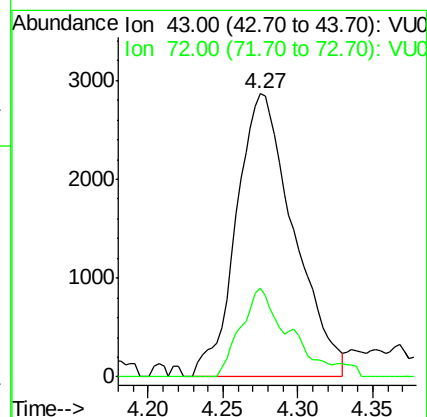
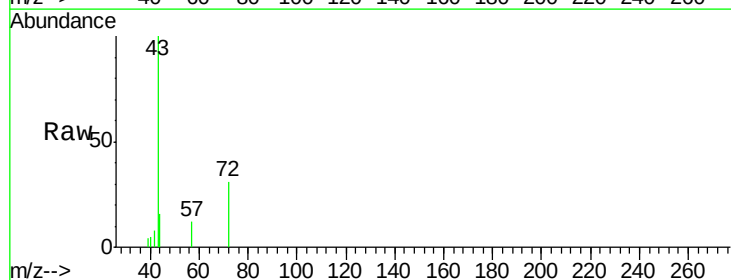
Instrument :
MSVOA_U
ClientSampleId :
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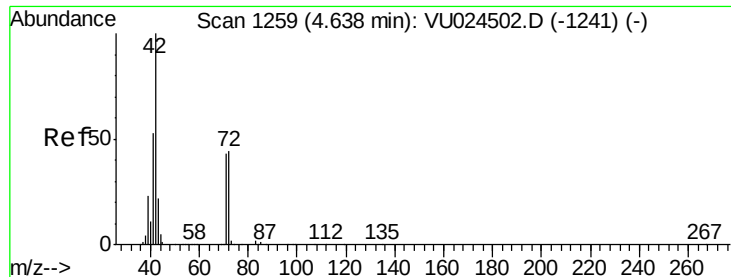
Tot Ion: 84 Resp: 924086
Ion Ratio Lower Upper
84 100
49 126.0 103.8 155.8
51 38.4 32.0 48.0
86 64.9 51.6 77.4



#25
2-Butanone
Concen: 3.147 ug/l
RT: 4.27 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VU025147.D
Acq: 02 Jul 2018 16:49

Tgt Ion: 43 Resp: 7648
Ion Ratio Lower Upper
43 100
72 31.4 19.6 29.4#





#29

Tetrahydrofuran

Concen: 0.820 ug/l

RT: 4.65 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-B

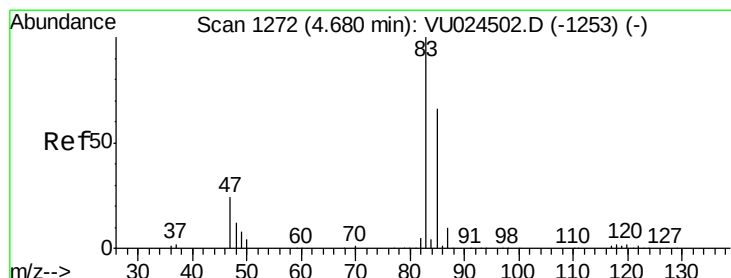
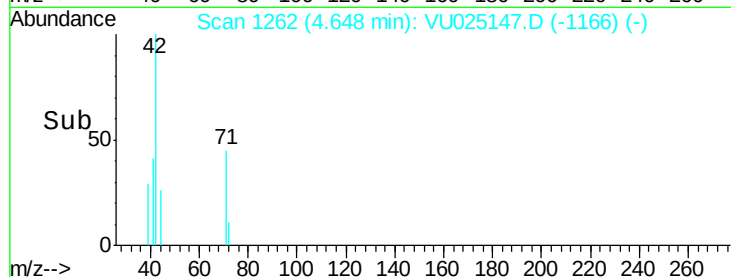
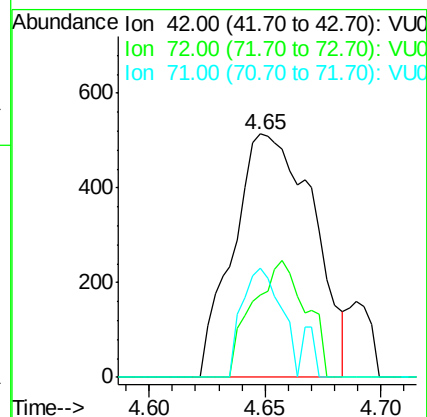
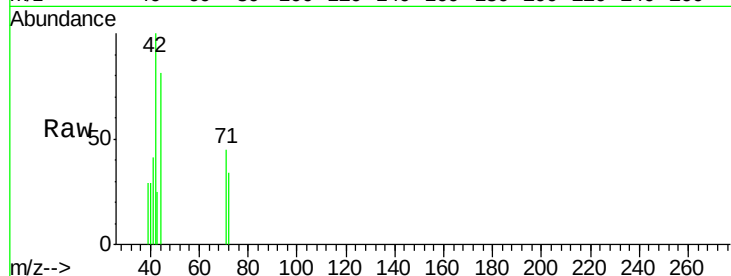
Tot Ion: 42 Resp: 1234

Ion Ratio Lower Upper

42 100

72 31.8 34.5 51.7#

71 21.8 32.2 48.4#



#30

Chloroform

Concen: 0.245 ug/l

RT: 4.68 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VU025147.D

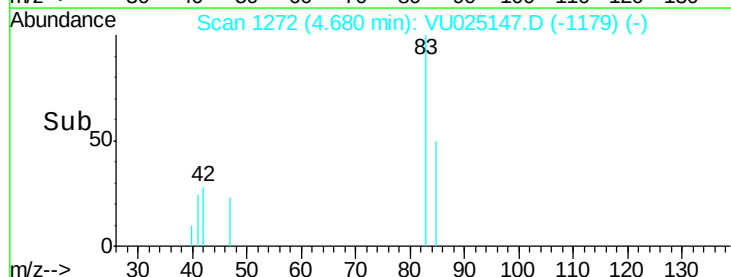
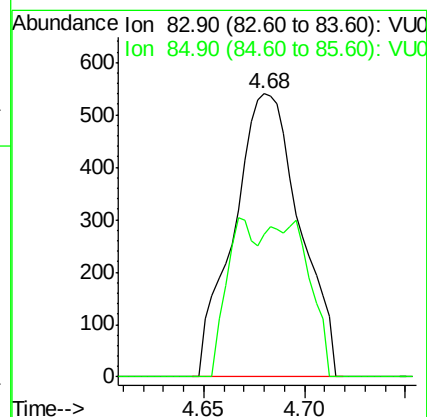
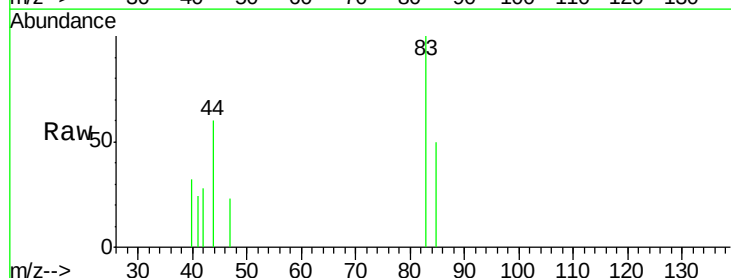
Acq: 02 Jul 2018 16:49

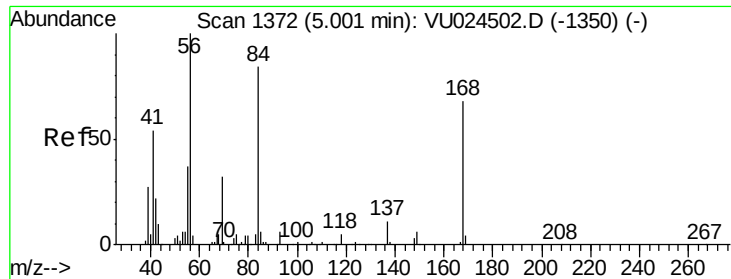
Tgt Ion: 83 Resp: 1232

Ion Ratio Lower Upper

83 100

85 50.4 52.4 78.6#

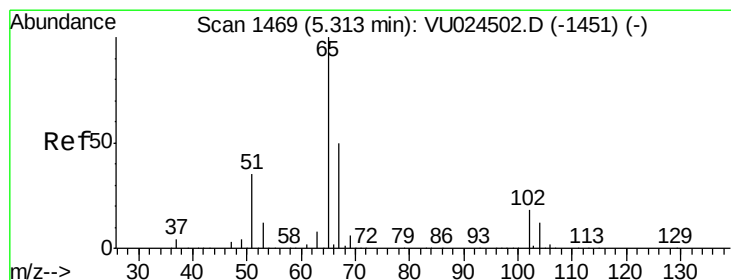
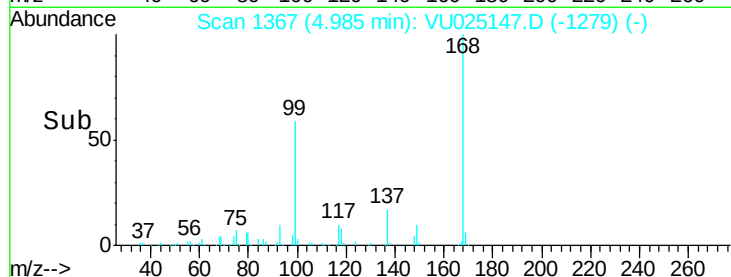
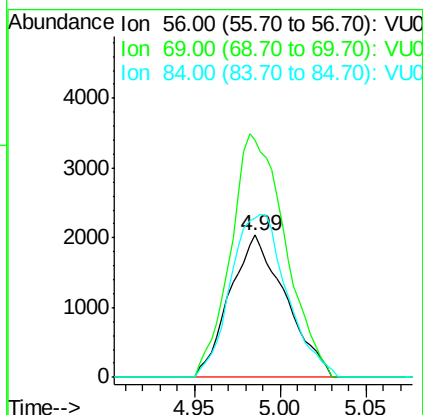
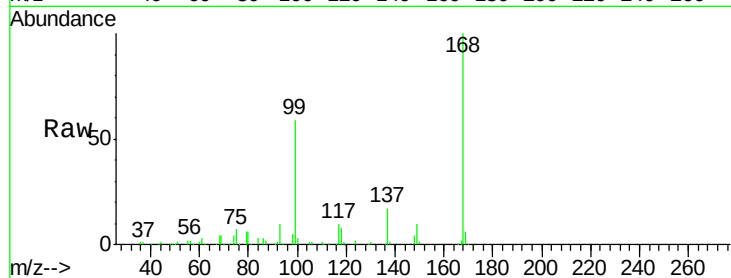




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025147.D
Acq: 02 Jul 2018 16:49

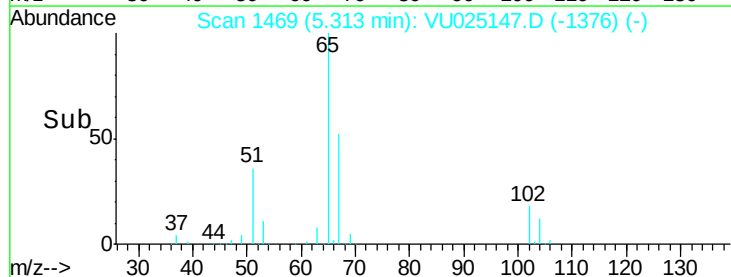
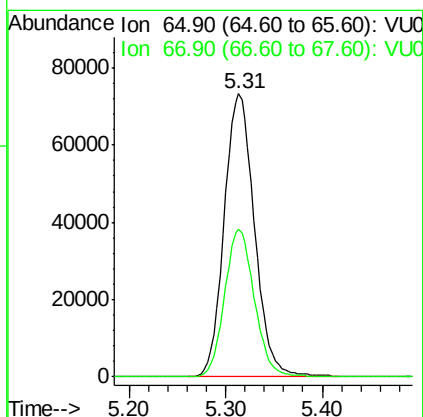
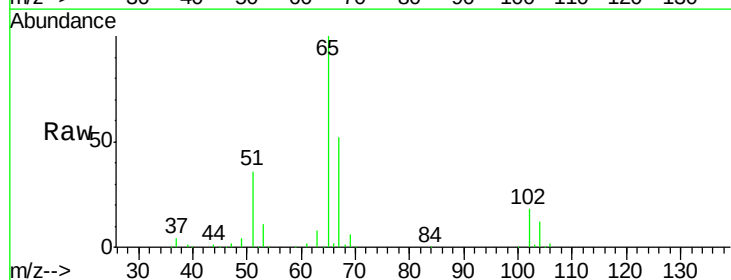
Instrument :
MSVOA_U
ClientSampleId :
EO-03-062818-B

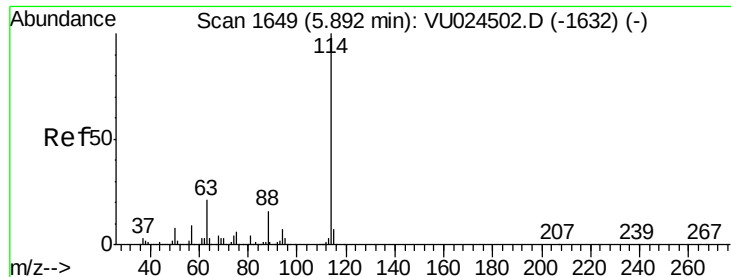
Tot Ion	56	Resp	4605
Ion Ratio	Lower	Upper	
56	100		
69	166.6	24.8	37.2#
84	111.7	65.2	97.8#



#33
1,2-Dichloroethane-d4
Concen: 47.392 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025147.D
Acq: 02 Jul 2018 16:49

Tgt Ion	65	Resp	159604
Ion Ratio	Lower	Upper	
65	100		
67	51.2	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: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-B

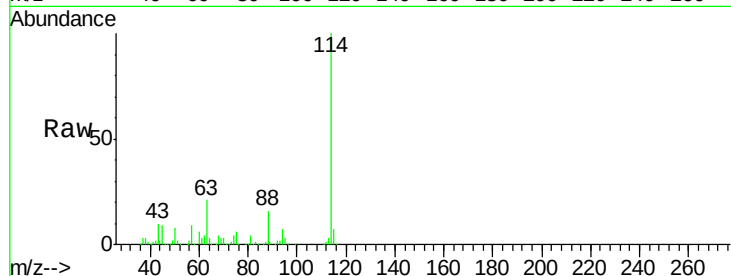
Tot Ion:114 Resp: 313796

Ion Ratio Lower Upper

114 100

63 21.0 0.0 45.4

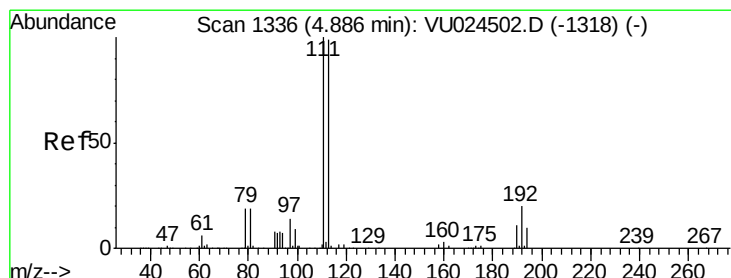
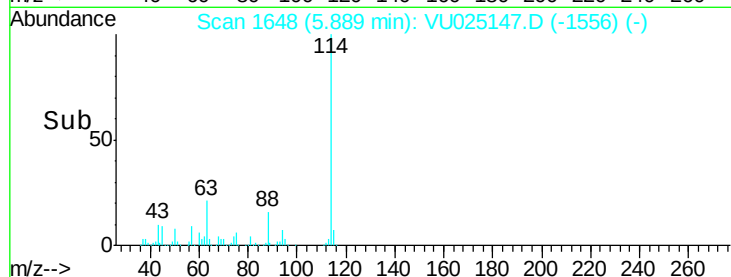
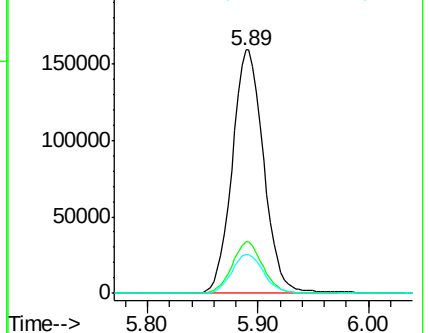
88 16.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.624 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

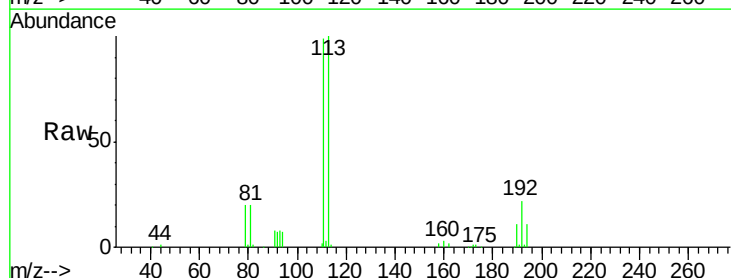
Tgt Ion:113 Resp: 124025

Ion Ratio Lower Upper

113 100

111 101.2 82.2 123.4

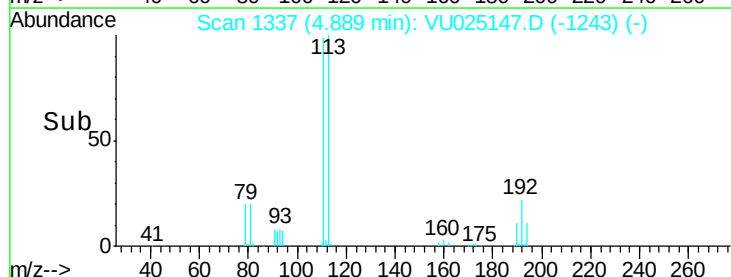
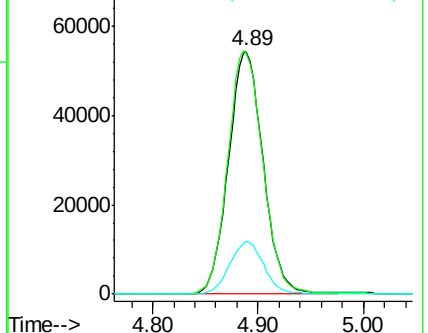
192 21.4 16.2 24.4

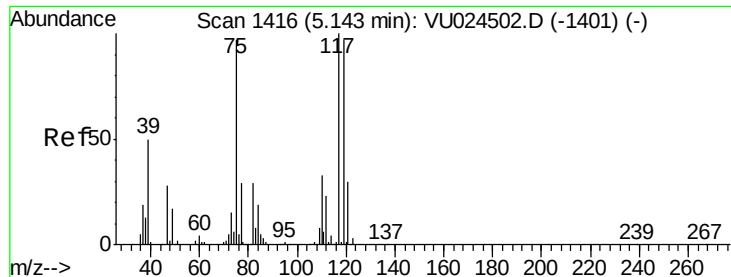


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.112 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-B

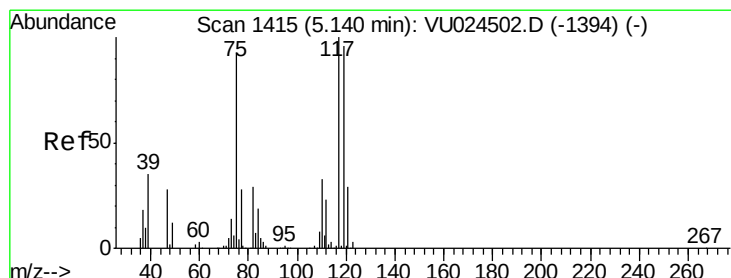
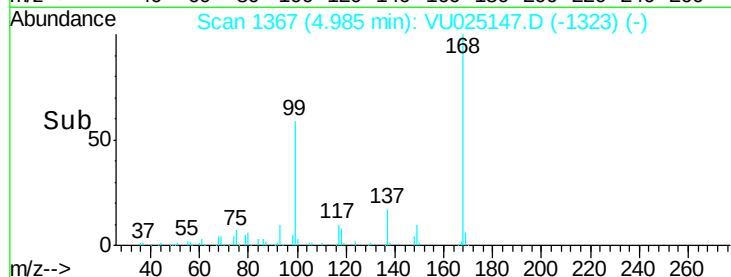
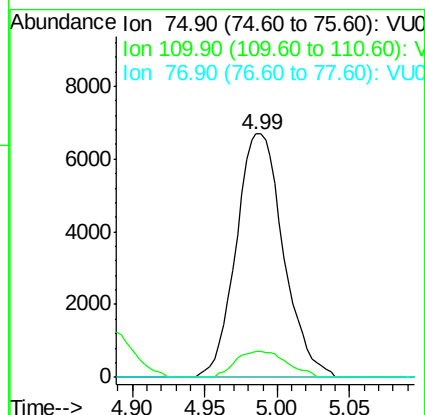
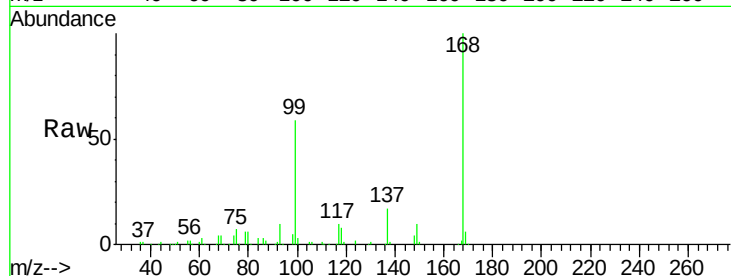
Tot Ion: 75 Resp: 15163

Ion Ratio Lower Upper

75 100

110 11.5 17.0 50.9#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 4.830 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

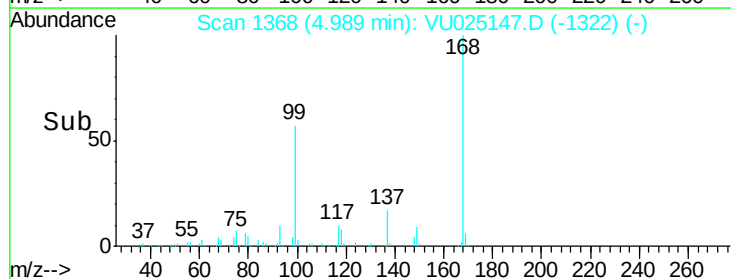
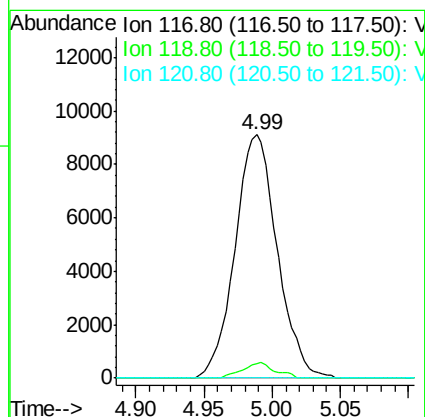
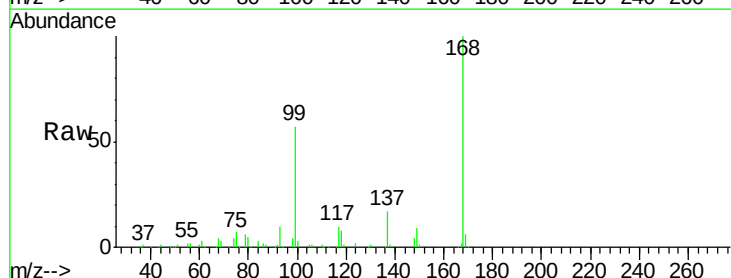
Tgt Ion: 117 Resp: 19583

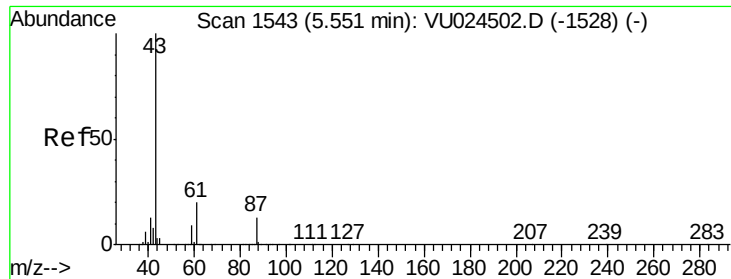
Ion Ratio Lower Upper

117 100

119 6.2 76.1 114.1#

121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 14.321 ug/l

RT: 5.80 min Scan# 1619

Delta R.T. 0.24 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-B

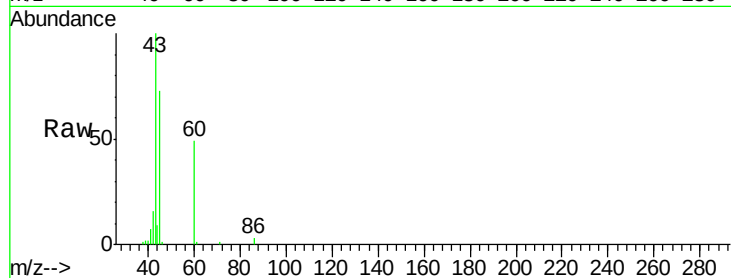
Tot Ion: 43 Resp: 99486

Ion Ratio Lower Upper

43 100

61 0.2 15.4 23.0#

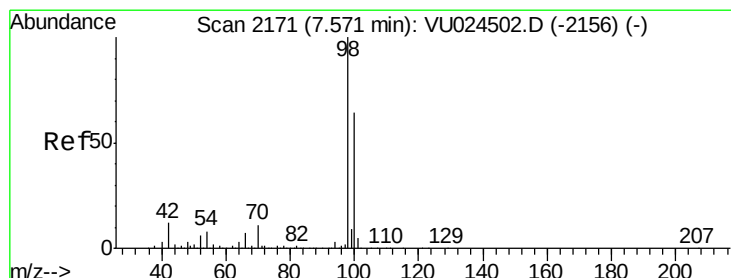
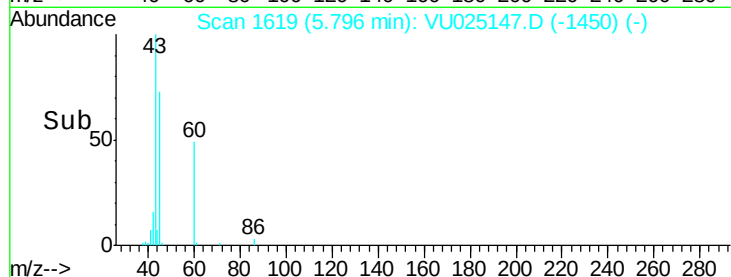
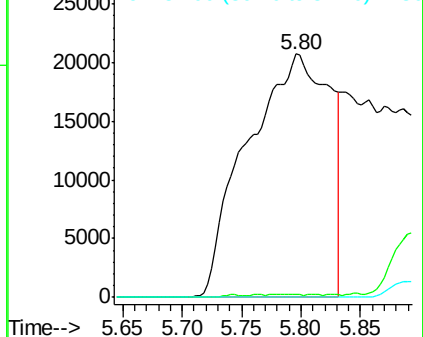
87 0.0 10.0 15.0#



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: 47.273 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025147.D

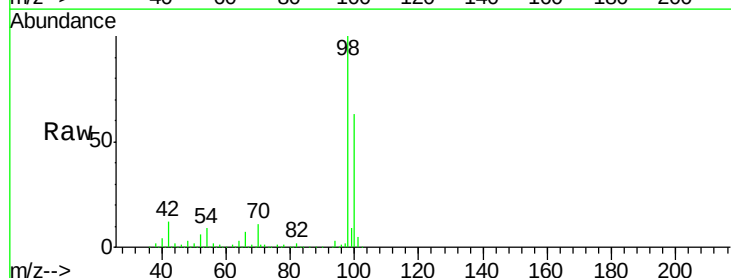
Acq: 02 Jul 2018 16:49

Tgt Ion: 98 Resp: 449059

Ion Ratio Lower Upper

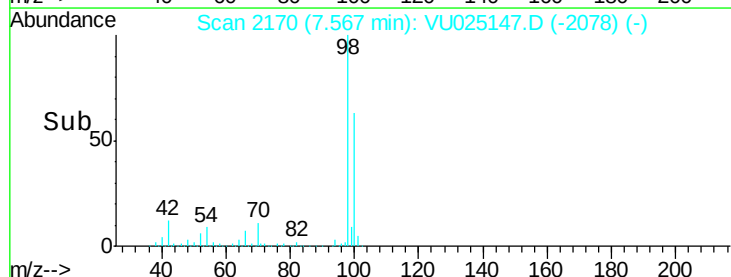
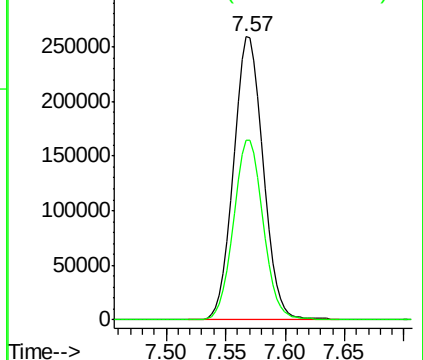
98 100

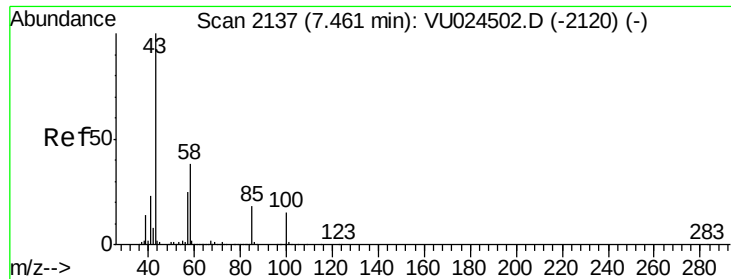
100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

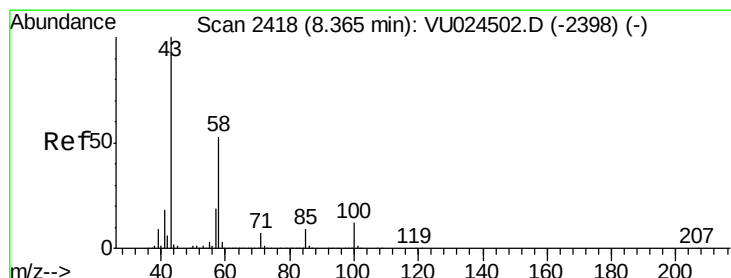
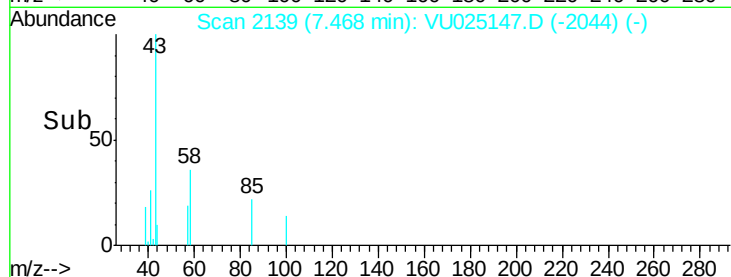
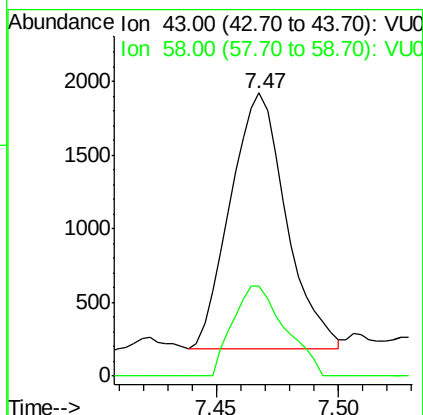
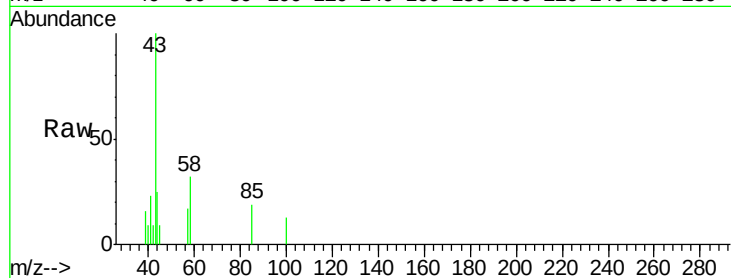




#51
 4-Methyl-2-Pentanone
 Concen: 0.633 ug/l
 RT: 7.47 min Scan# 2139
 Delta R.T. 0.01 min
 Lab File: VU025147.D
 Acq: 02 Jul 2018 16:49

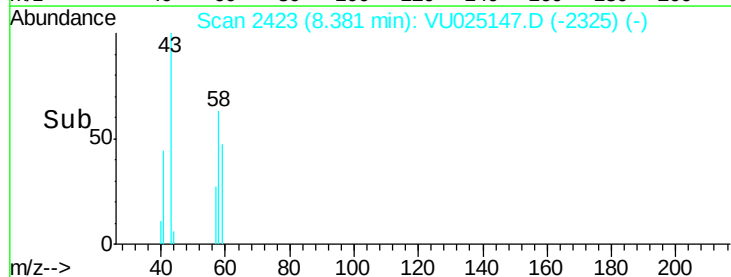
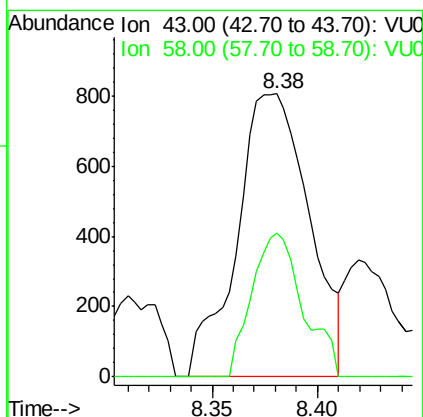
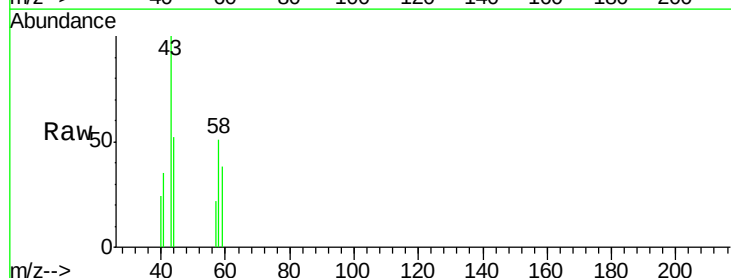
Instrument :
 MSVOA_U
 ClientSampleId :
 EO-03-062818-B

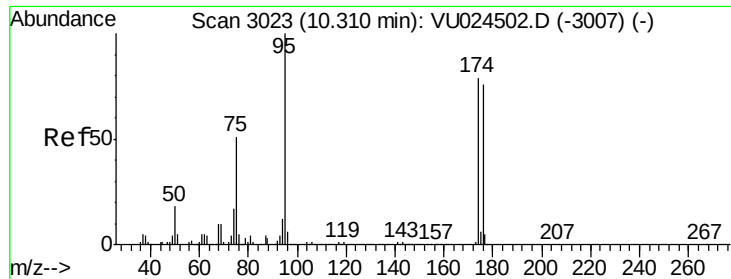
Tot Ion: 43 Resp: 2763
 Ion Ratio Lower Upper
 43 100
 58 33.0 30.0 45.0



#59
 2-Hexanone
 Concen: 0.541 ug/l
 RT: 8.38 min Scan# 2423
 Delta R.T. 0.02 min
 Lab File: VU025147.D
 Acq: 02 Jul 2018 16:49

Tgt Ion: 43 Resp: 1929
 Ion Ratio Lower Upper
 43 100
 58 35.7 26.4 79.0

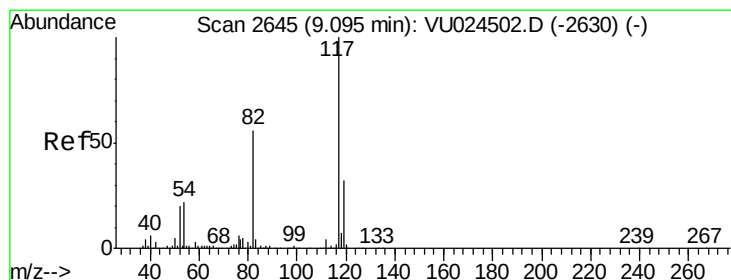
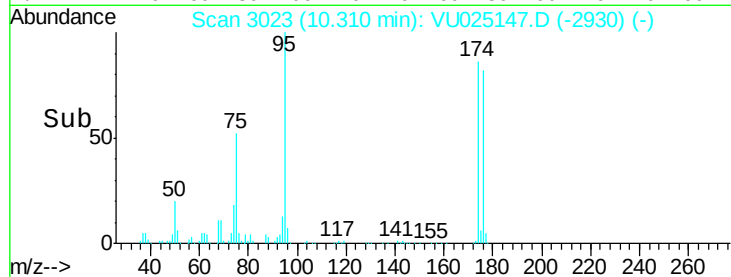
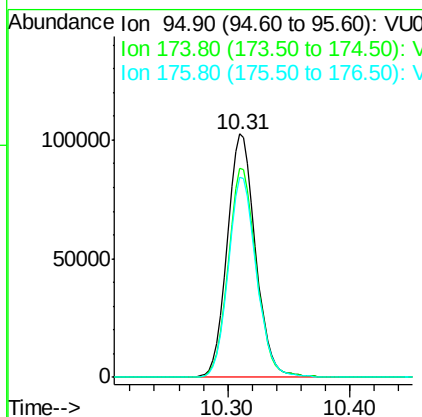
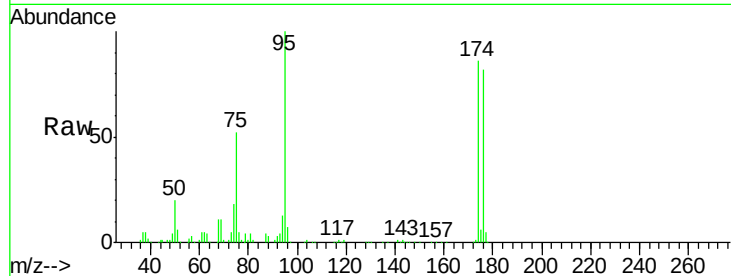




#62
4-Bromofluorobenzene
Concen: 44.192 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU025147.D
Acq: 02 Jul 2018 16:49

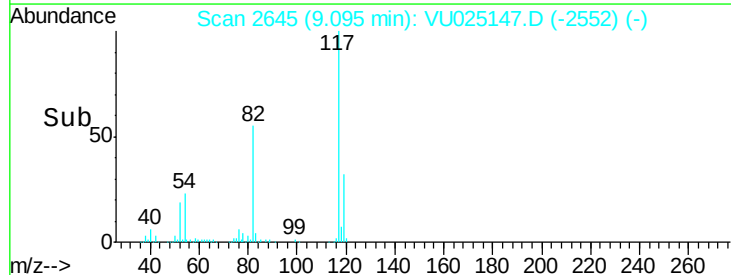
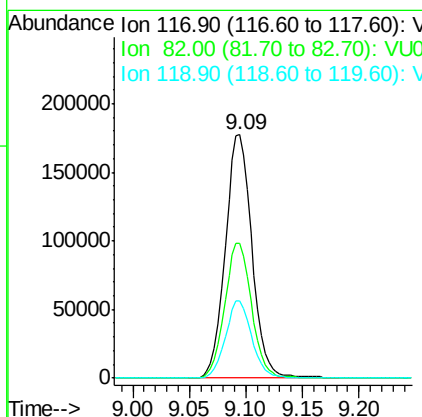
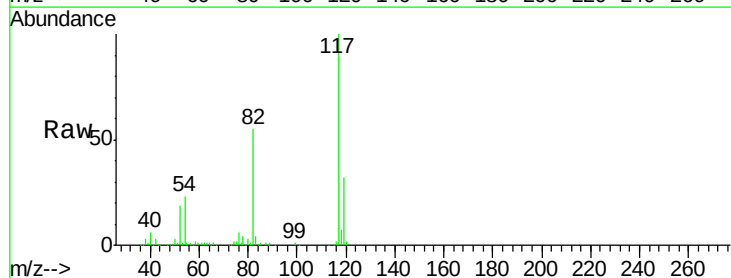
Instrument :
MSVOA_U
ClientSampleId :
EO-03-062818-B

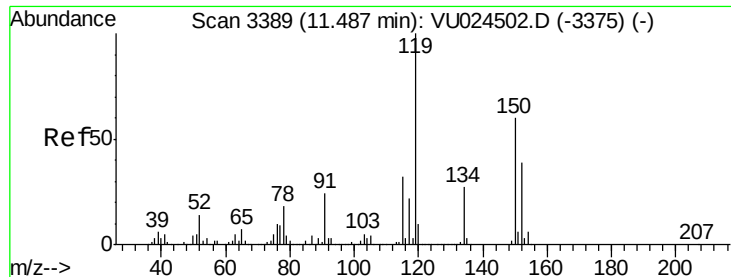
Tot Ion	95	Resp	166676
Ion Ratio	Lower	Upper	
95	100		
174	85.3	0.0	165.8
176	81.8	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025147.D
Acq: 02 Jul 2018 16:49

Tgt Ion	117	Resp	291178
Ion Ratio	Lower	Upper	
117	100		
82	55.2	44.3	66.5
119	31.5	25.4	38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-B

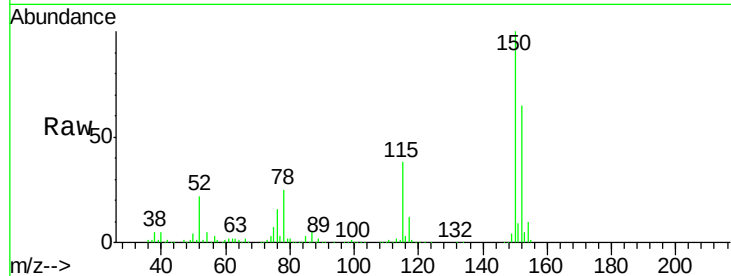
Tot Ion:152 Resp: 155691

Ion Ratio Lower Upper

152 100

115 57.7 43.0 129.0

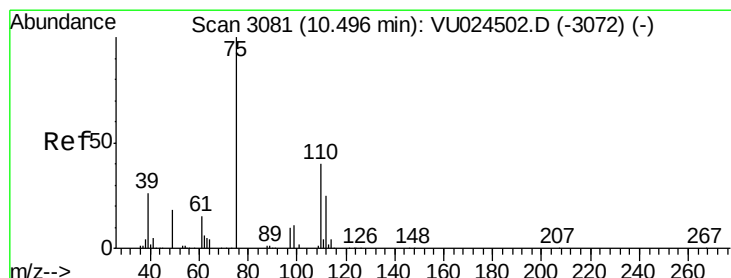
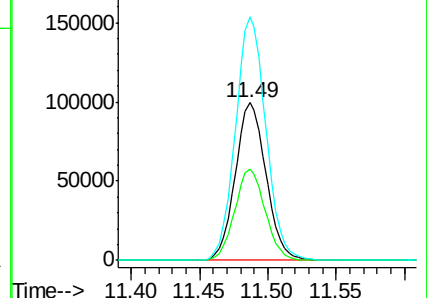
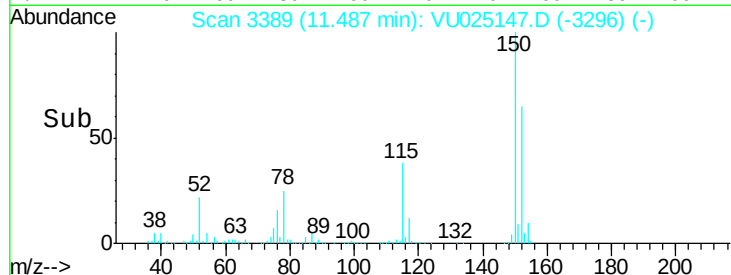
150 153.1 0.0 354.0



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: 25.189 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025147.D

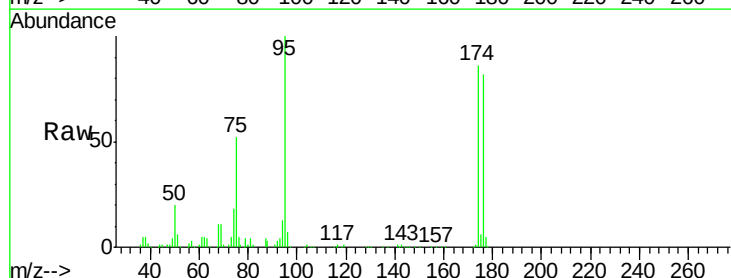
Acq: 02 Jul 2018 16:49

Tgt Ion: 75 Resp: 86342

Ion Ratio Lower Upper

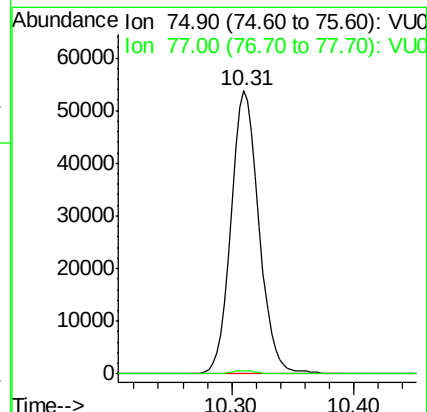
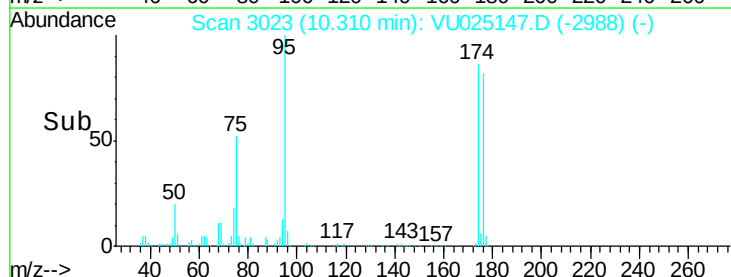
75 100

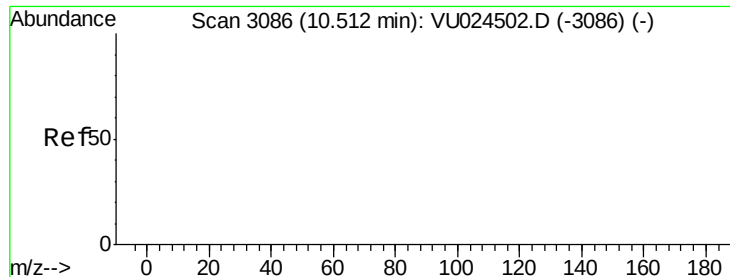
77 1.1 20.9 62.7#



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: 58.298 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

EO-03-062818-B

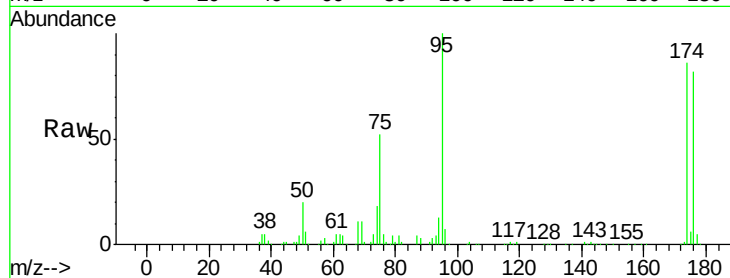
Tot Ion: 75 Resp: 86342

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

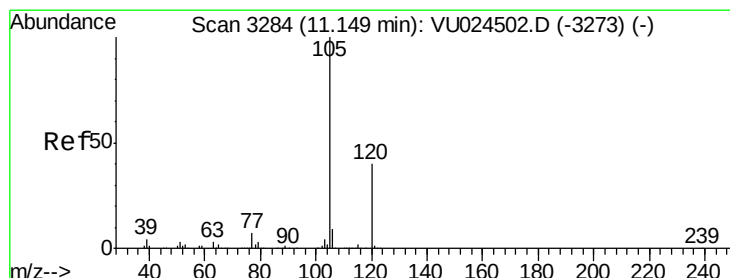
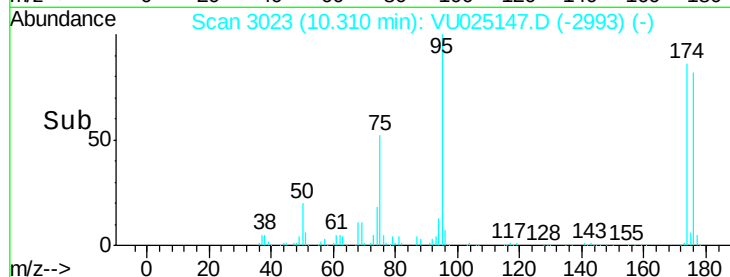
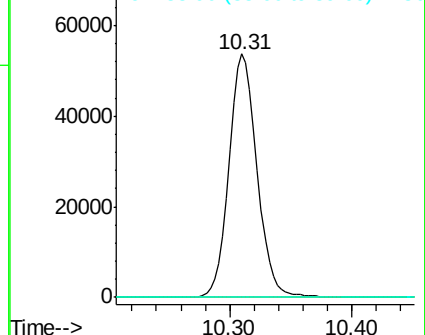
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.289 ug/l

RT: 11.15 min Scan# 3285

Delta R.T. 0.00 min

Lab File: VU025147.D

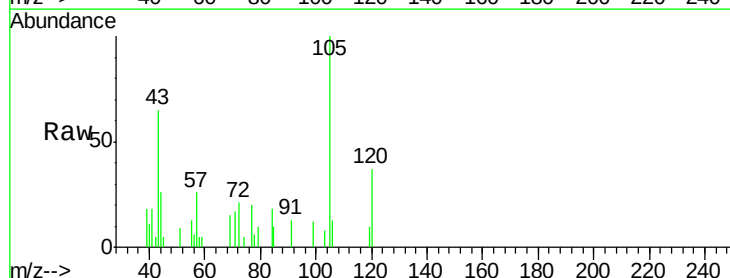
Acq: 02 Jul 2018 16:49

Tgt Ion: 105 Resp: 3049

Ion Ratio Lower Upper

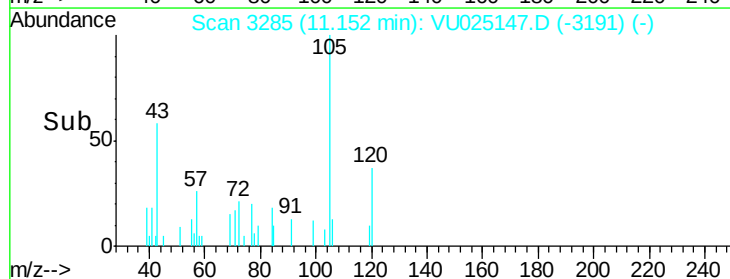
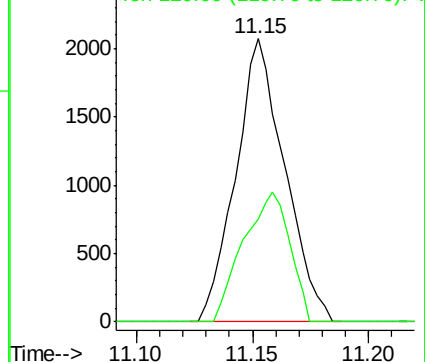
105 100

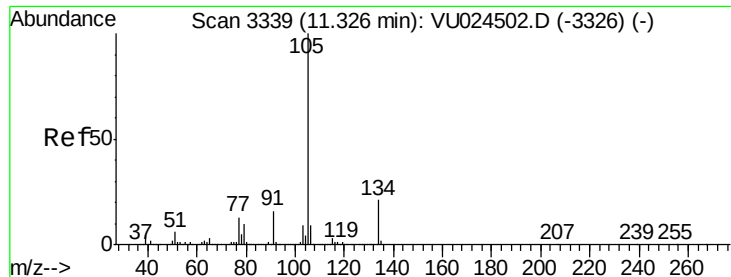
120 43.5 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): VU024502.D (-3273) (-)

Ion 120.00 (119.70 to 120.70): VU024502.D (-3273) (-)





#85

sec-Butylbenzene

Concen: 0.244 ug/l

RT: 11.15 min Scan# 3285

Delta R.T. -0.17 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Instrument :

MSVOA_U

ClientSampleId :

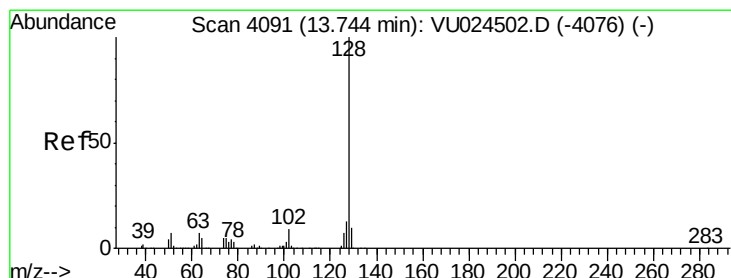
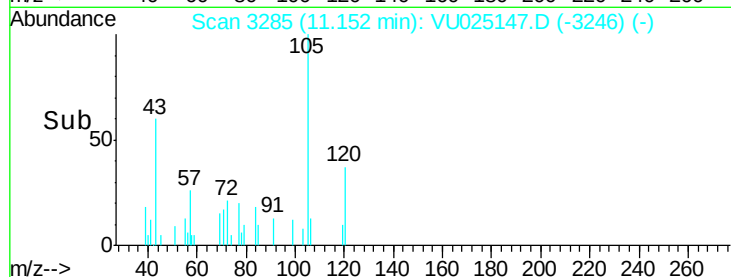
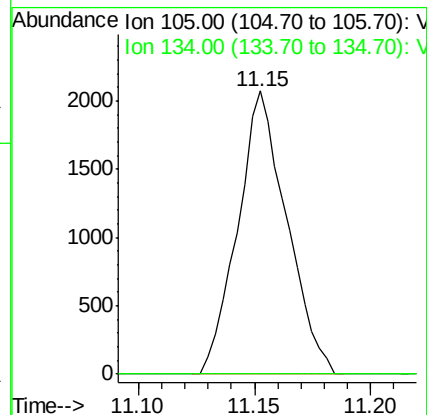
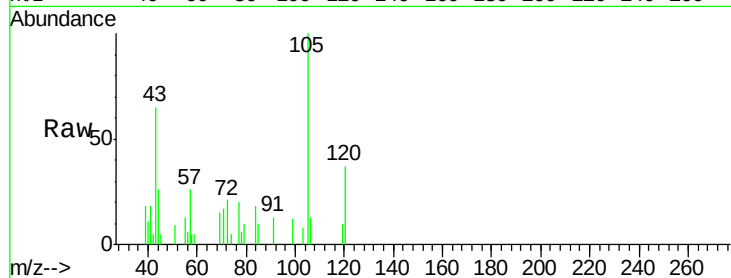
EO-03-062818-B

Tot Ion:105 Resp: 3049

Ion Ratio Lower Upper

105 100

134 0.0 9.7 29.1#



#95

Naphthalene

Concen: 13.316 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025147.D

Acq: 02 Jul 2018 16:49

Tgt Ion:128 Resp: 146659

Ion Ratio Lower Upper

128 100

127 12.8 10.6 16.0

129 10.6 8.6 12.8

