

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071018\
 Data File : VU025292.D
 Acq On : 10 Jul 2018 16:28
 Operator : MD/SY
 Sample : J3905-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-070518

Quant Time: Jul 11 02:02:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	203498	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	305255	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	283184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	144797	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	154778	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
35) Dibromofluoromethane	4.89	113	119924	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	
50) Toluene-d8	7.57	98	437771	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
62) 4-Bromofluorobenzene	10.31	95	163117	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	

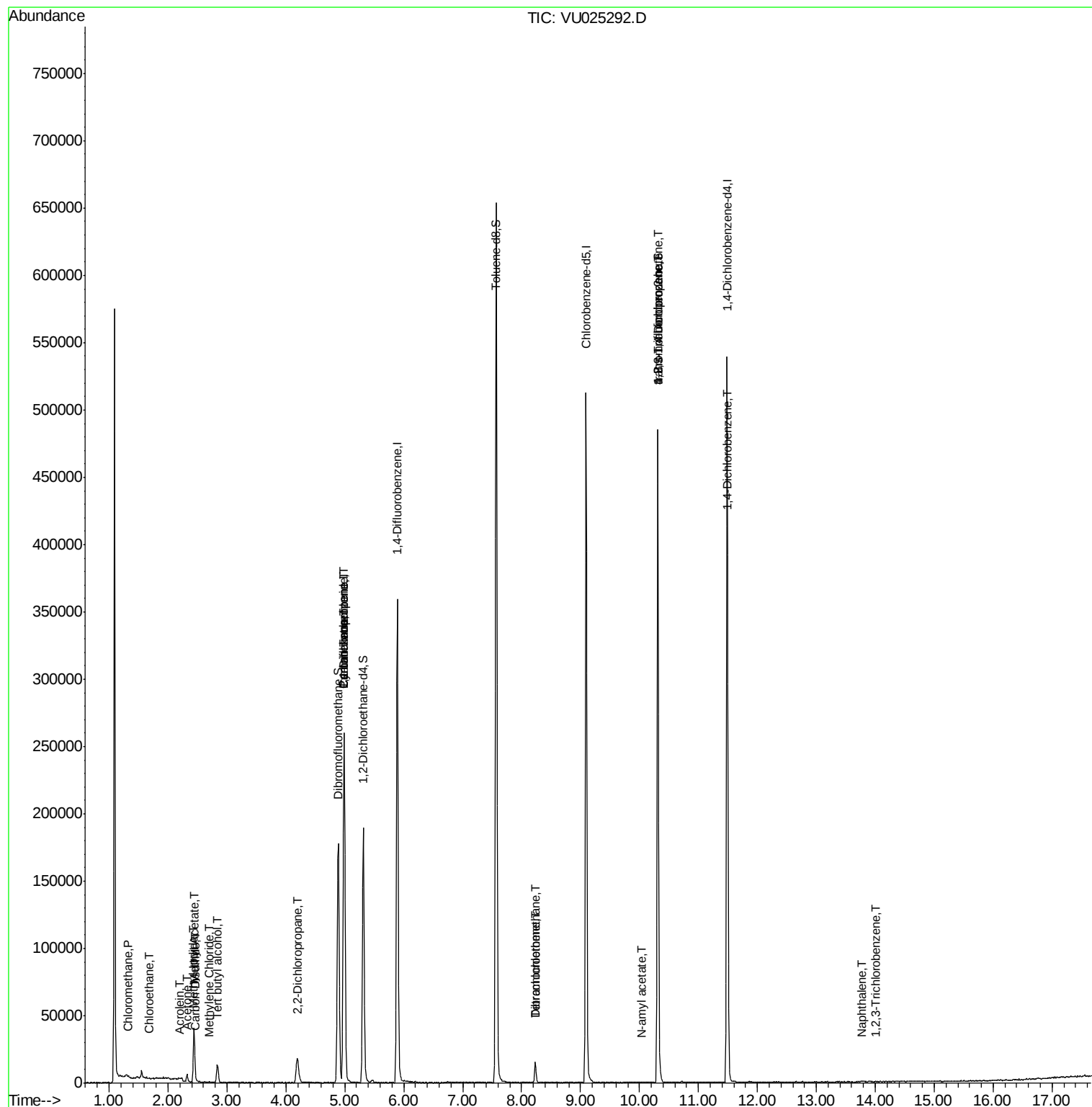
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	423	0.76	ug/l #	25
5) Bromomethane	1.64	94	522	Below Cal	#	67
6) Chloroethane	1.68	64	47	0.32	ug/l #	43
10) Methyl Iodide	2.42	142	401	7.84	ug/l #	39
11) Tert butyl alcohol	2.83	59	8596	12.46	ug/l #	81
13) Acrolein	2.19	56	165	0.36	ug/l #	14
16) Acetone	2.32	43	6202	8.64	ug/l #	84
17) Carbon Disulfide	2.48	76	381	1.99	ug/l #	74
18) Methyl Acetate	2.44	43	10552	3.26	ug/l #	52
20) Methylene Chloride	2.70	84	374	0.84	ug/l #	63
26) 2,2-Dichloropropane	4.19	77	1354	0.33	ug/l #	53
31) Cyclohexane	4.99	56	3832	1.69	ug/l #	2
36) 1,1-Dichloropropene	4.99	75	15000	4.42	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19115	5.23	ug/l #	17
60) Dibromochloromethane	8.23	129	3648	1.30	ug/l #	11
64) Tetrachloroethene	8.23	164	3865	1.50	ug/l	87
74) N-amyl acetate	10.04	43	23	1.27	ug/l #	43
76) 1,2,3-Trichloropropane	10.31	75	82969	28.15	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	82969	71.92	ug/l #	100
88) 1,4-Dichlorobenzene	11.51	146	219	1.53	ug/l #	1
95) Naphthalene	13.77	128	918	2.50	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.01	180	67	2.55	ug/l #	35

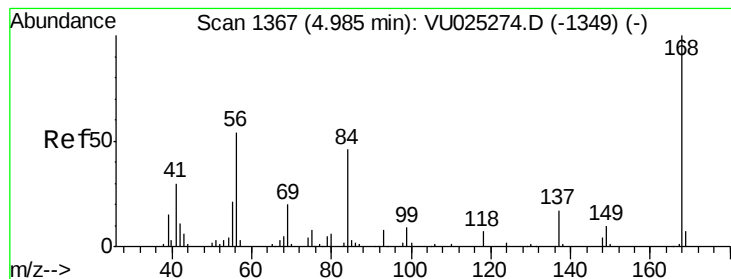
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU071018\
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Quant Time: Jul 11 02:02:56 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U070918W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

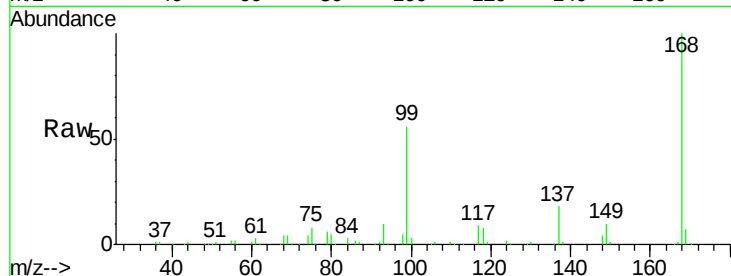
DUP-070518

Tot Ion:168 Resp: 203498

Ion Ratio Lower Upper

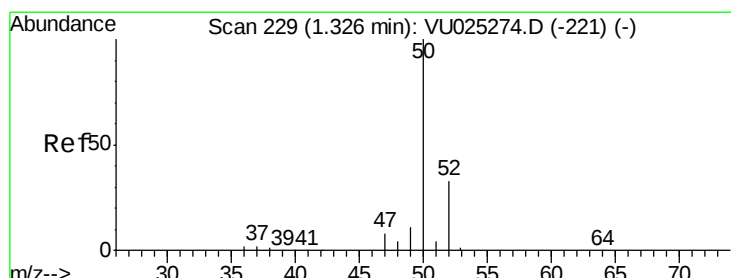
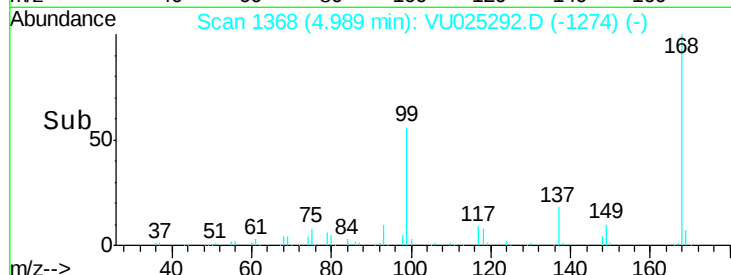
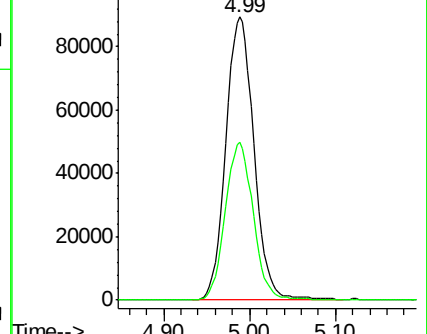
168 100

99 55.8 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025292.D (-1274) (-)

Ion 98.90 (98.60 to 99.60): VU025292.D (-1274) (-)



#3

Chloromethane

Concen: 0.76 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025292.D

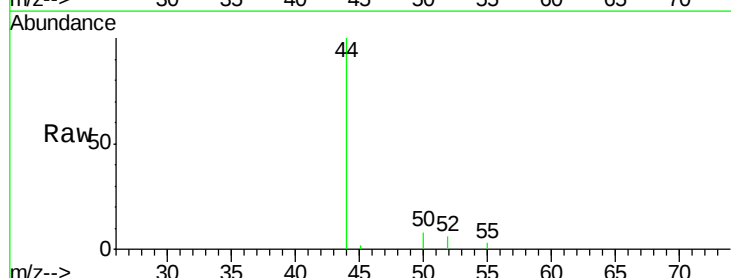
Acq: 10 Jul 2018 16:28

Tgt Ion: 50 Resp: 423

Ion Ratio Lower Upper

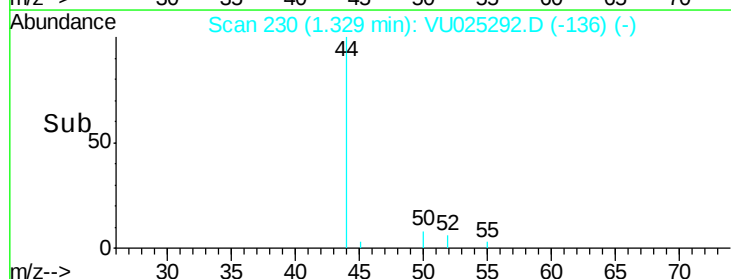
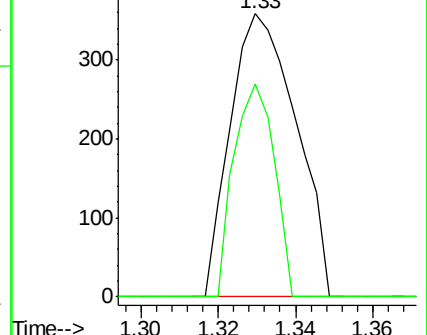
50 100

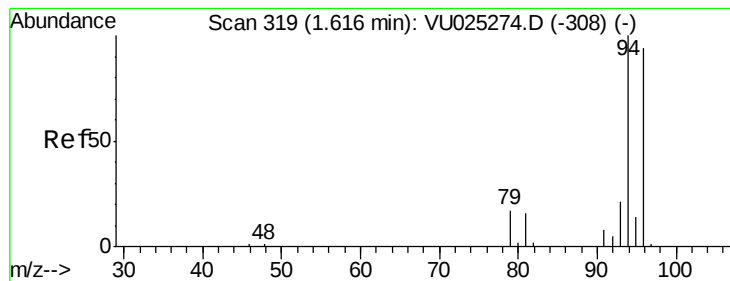
52 75.4 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025292.D (-136) (-)

Ion 51.90 (51.60 to 52.60): VU025292.D (-136) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

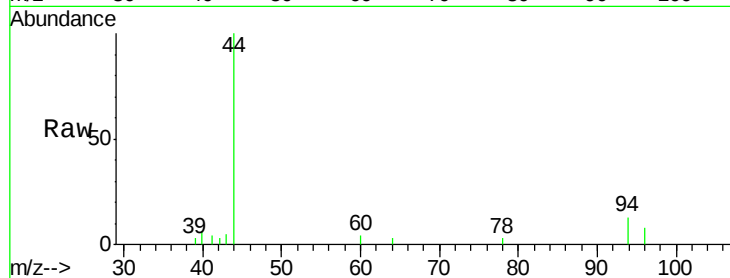
DUP-070518

Tot Ion: 94 Resp: 522

Ion Ratio Lower Upper

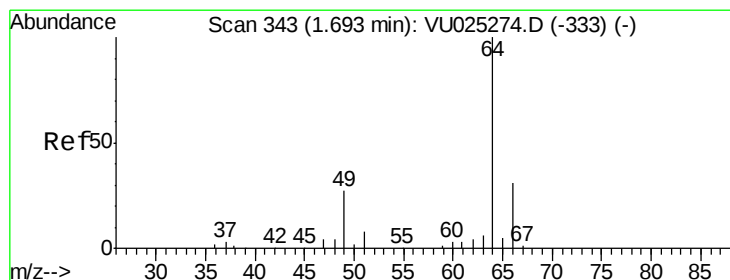
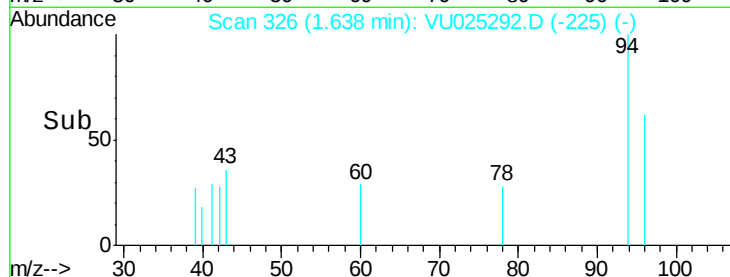
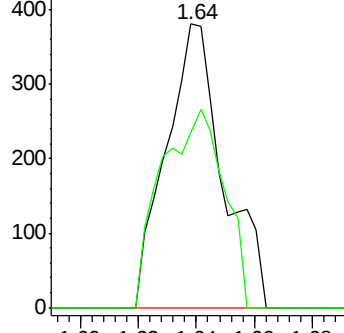
94 100

96 61.7 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 0.32 ug/l

RT: 1.68 min Scan# 339

Delta R.T. -0.01 min

Lab File: VU025292.D

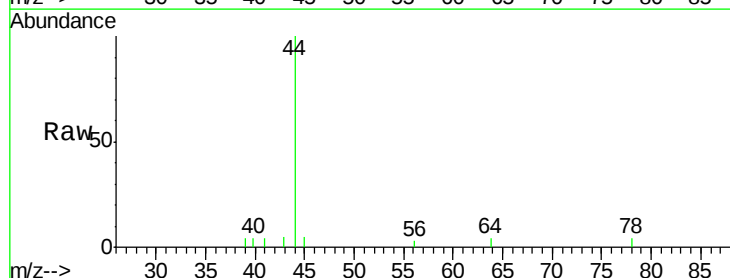
Acq: 10 Jul 2018 16:28

Tgt Ion: 64 Resp: 47

Ion Ratio Lower Upper

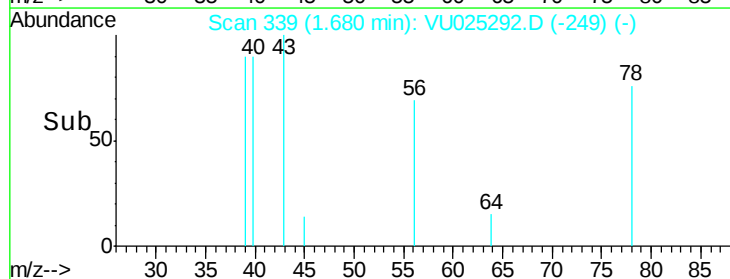
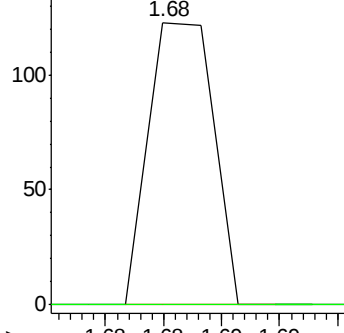
64 100

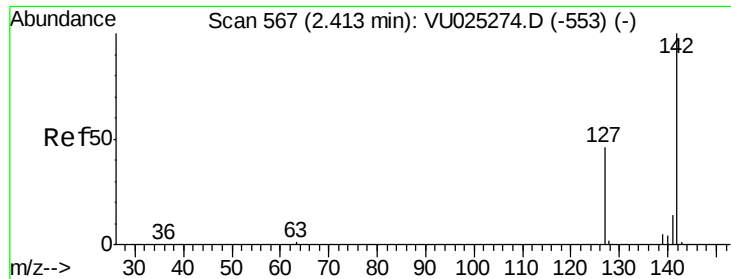
66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

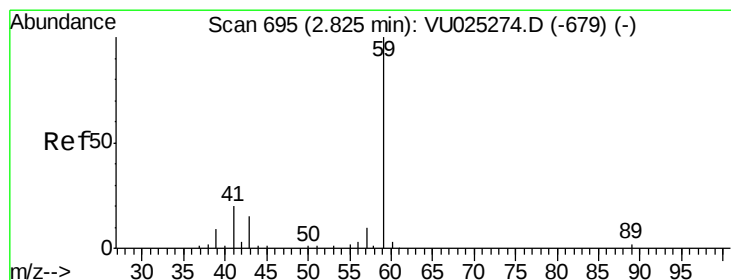
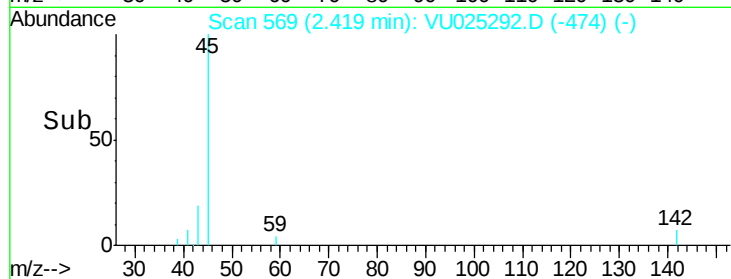
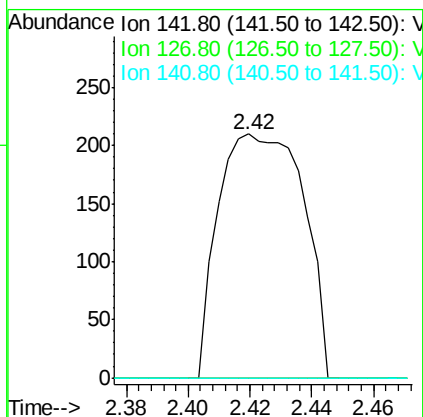
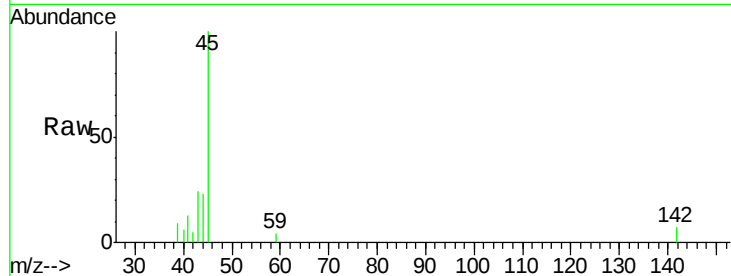




#10
Methvl Iodide
Concen: 7.84 ug/l
RT: 2.42 min Scan# 569
Delta R.T. 0.01 min
Lab File: VU025292.D
Acq: 10 Jul 2018 16:28

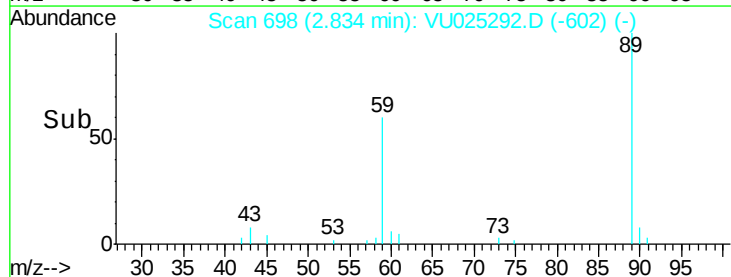
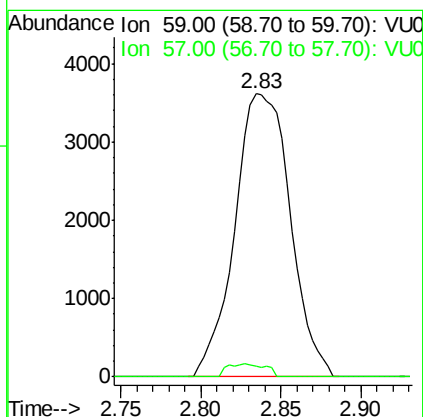
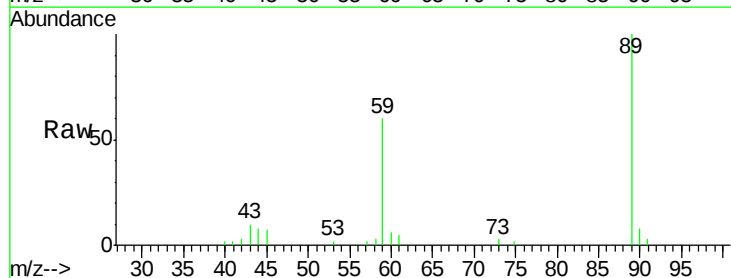
Instrument :
MSVOA_U
ClientSampleId :
DUP-070518

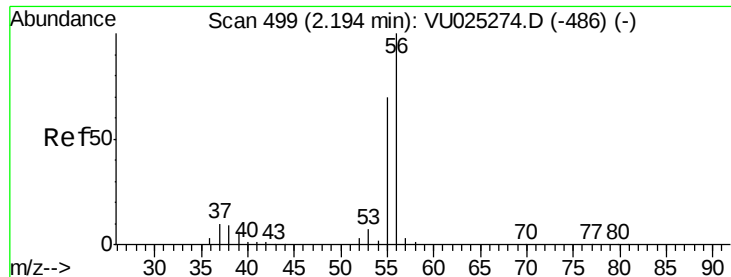
Tot Ion:142 Resp: 401
Ion Ratio Lower Upper
142 100
127 0.0 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 12.46 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU025292.D
Acq: 10 Jul 2018 16:28

Tgt Ion: 59 Resp: 8596
Ion Ratio Lower Upper
59 100
57 3.1 8.2 12.2#





#13

Acrolein

Concen: 0.36 ug/l

RT: 2.19 min Scan# 499

Delta R.T. 0.00 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

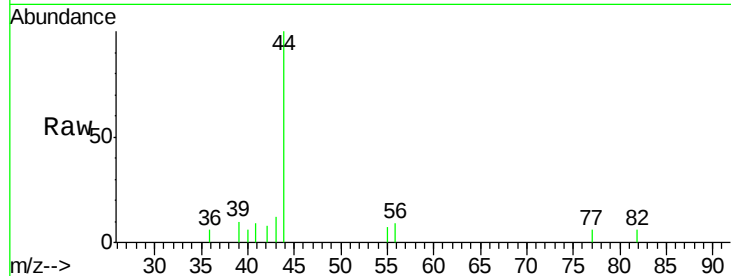
DUP-070518

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

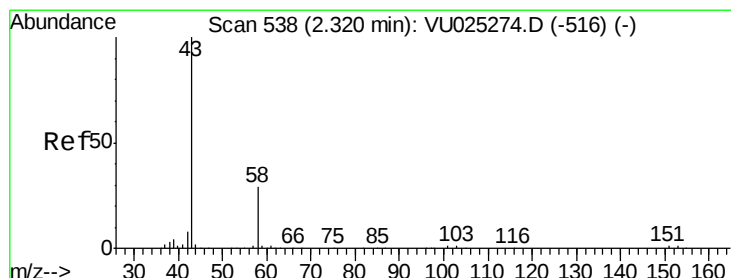
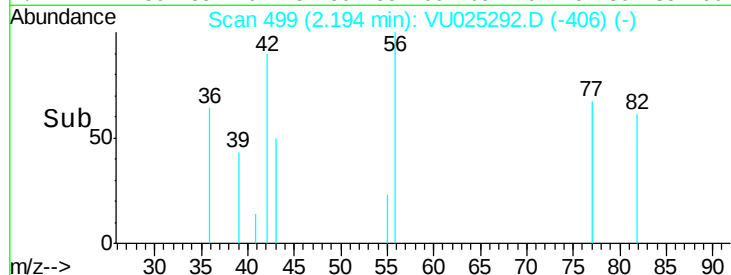
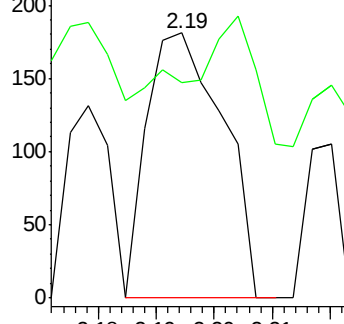
56 100

55 0.0 57.2 85.8#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 8.64 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025292.D

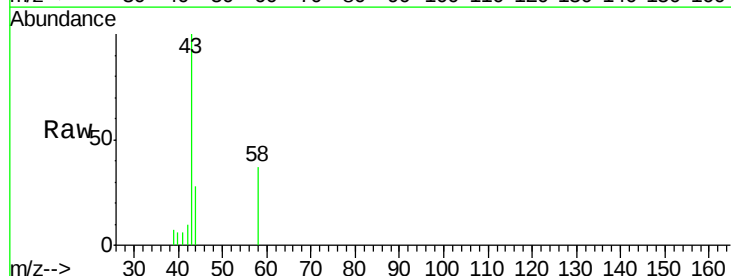
Acq: 10 Jul 2018 16:28

Tgt Ion: 43 Resp: 6202

Ion Ratio Lower Upper

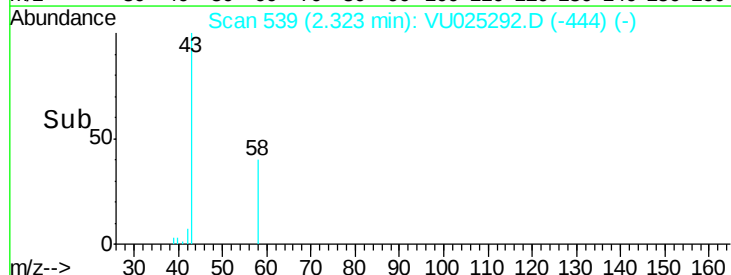
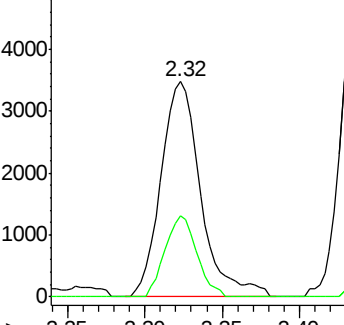
43 100

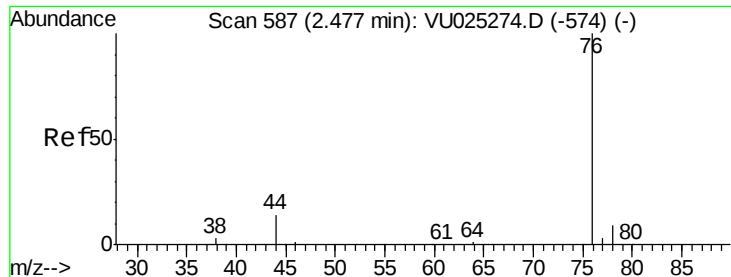
58 37.4 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#17

Carbon Disulfide

Concen: 1.99 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

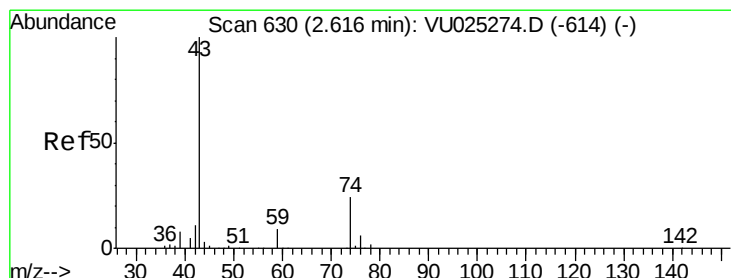
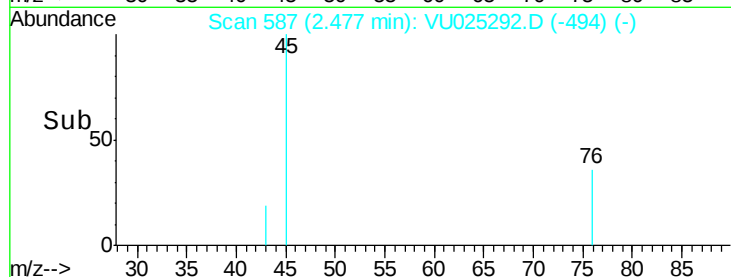
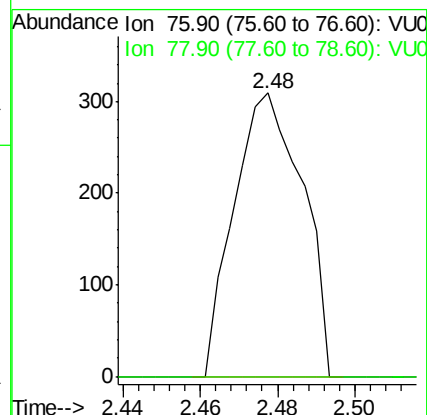
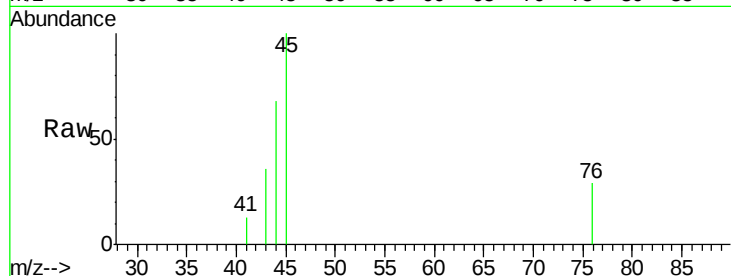
DUP-070518

Tot Ion: 76 Resp: 381

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#



#18

Methyl Acetate

Concen: 3.26 ug/l

RT: 2.44 min Scan# 576

Delta R.T. -0.17 min

Lab File: VU025292.D

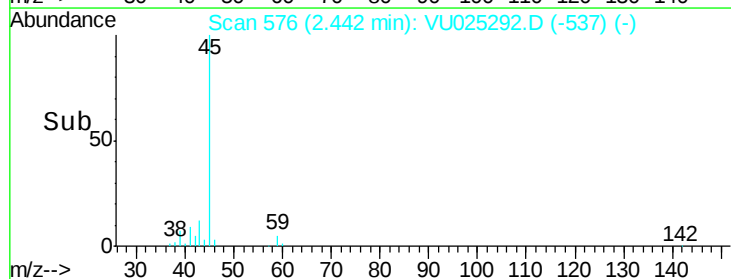
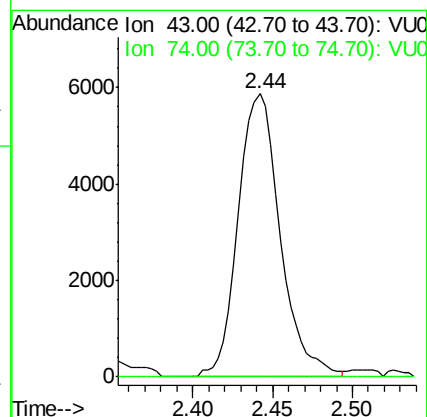
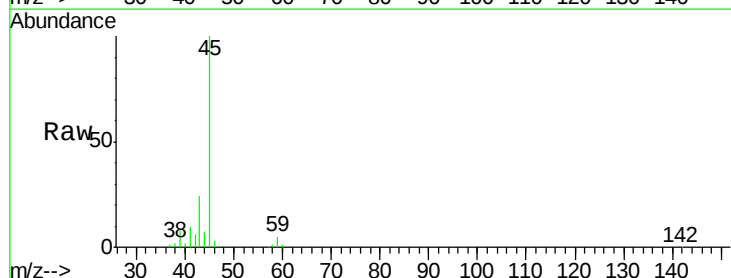
Acq: 10 Jul 2018 16:28

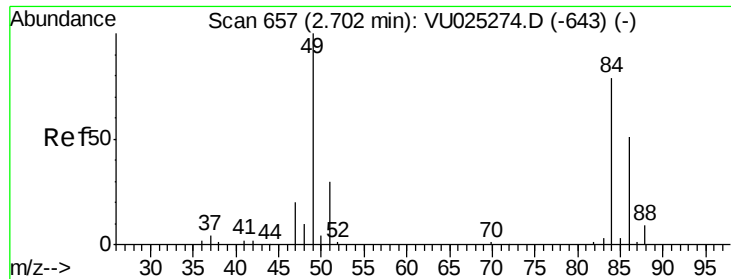
Tgt Ion: 43 Resp: 10552

Ion Ratio Lower Upper

43 100

74 0.0 18.5 27.7#

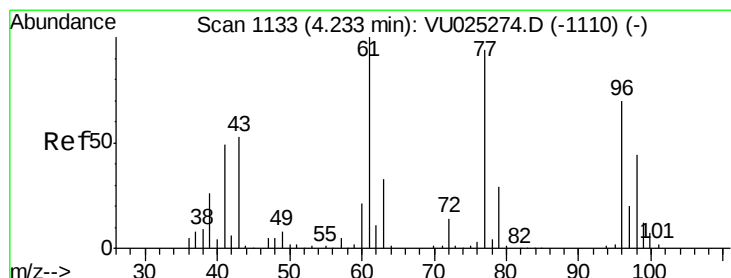
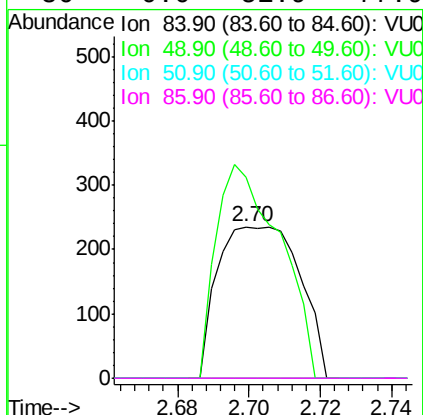
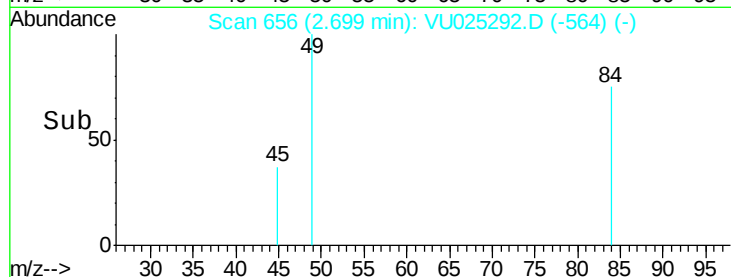
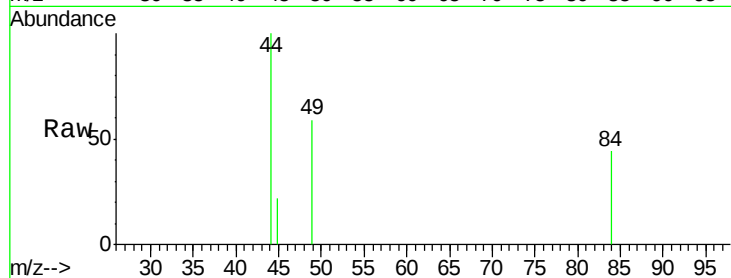




#20
Methvlene Chloride
Concen: 0.84 ug/l
RT: 2.70 min Scan# 656
Delta R.T. -0.00 min
Lab File: VU025292.D
Acq: 10 Jul 2018 16:28

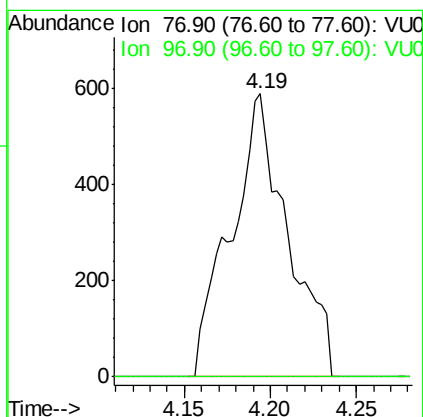
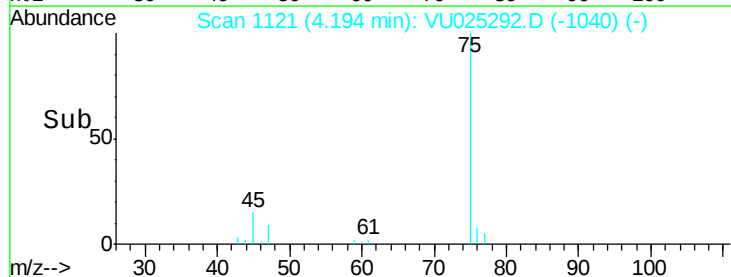
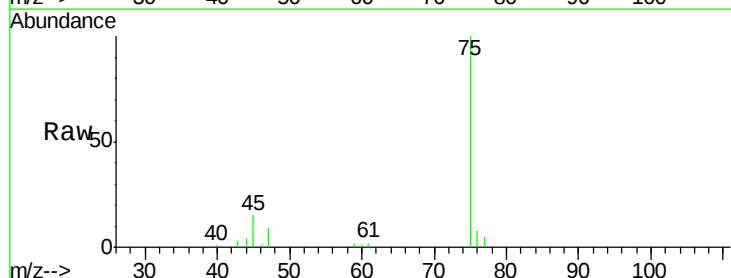
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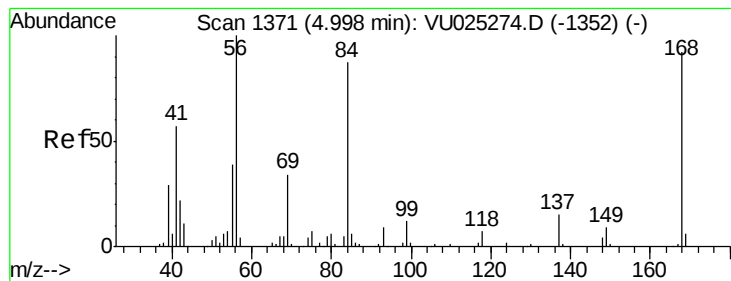
Tot Ion: 84 Resp: 374
Ion Ratio Lower Upper
84 100
49 133.2 101.8 152.6
51 0.0 30.8 46.2#
86 0.0 51.9 77.9#



#26
2,2-Dichloropropane
Concen: 0.33 ug/l
RT: 4.19 min Scan# 1121
Delta R.T. -0.04 min
Lab File: VU025292.D
Acq: 10 Jul 2018 16:28

Tgt Ion: 77 Resp: 1354
Ion Ratio Lower Upper
77 100
97 0.0 11.2 33.5#





#31

Cyclohexane

Concen: 1.69 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

DUP-070518

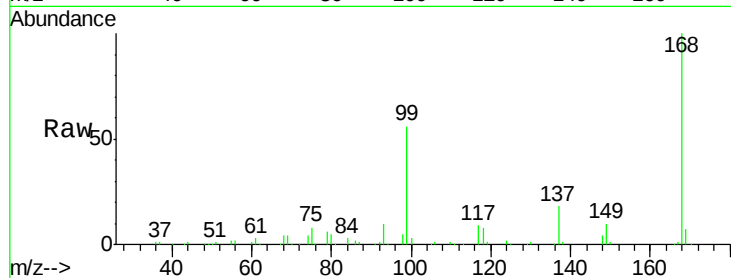
Tot Ion: 56 Resp: 3832

Ion Ratio Lower Upper

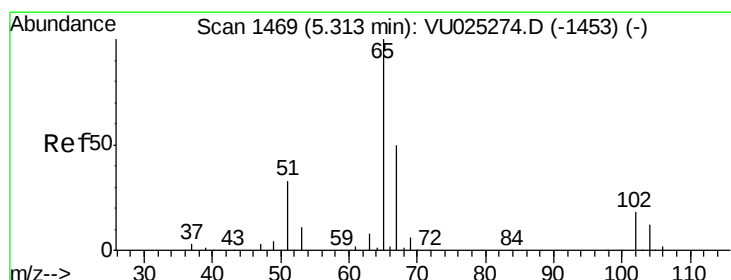
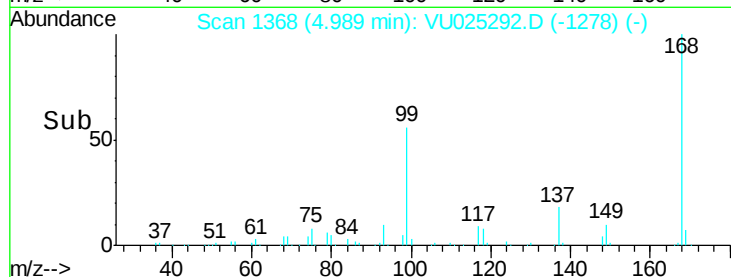
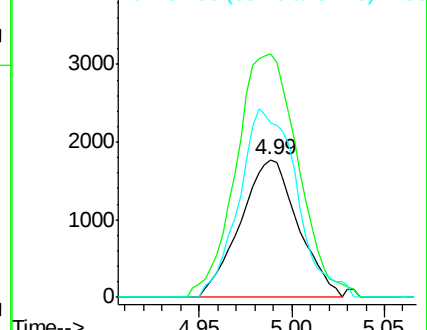
56 100

69 170.8 26.8 40.2#

84 127.0 69.7 104.5#



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 48.96 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU025292.D

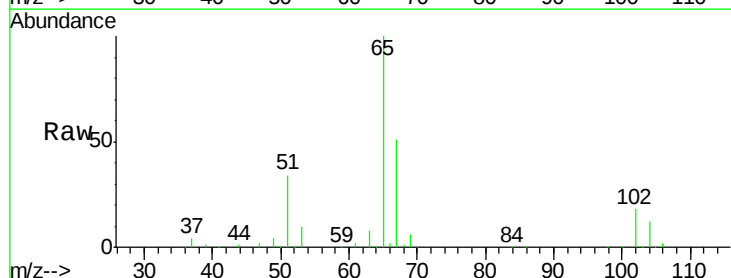
Acq: 10 Jul 2018 16:28

Tgt Ion: 65 Resp: 154778

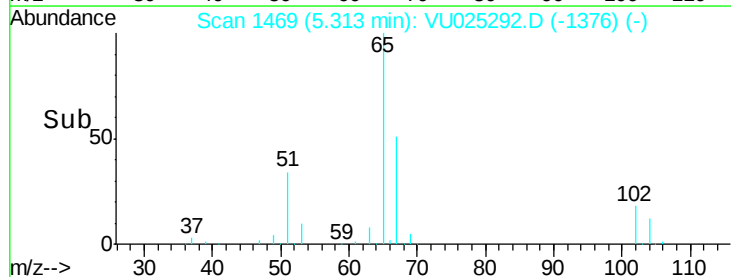
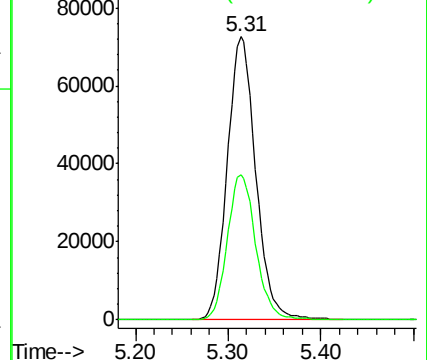
Ion Ratio Lower Upper

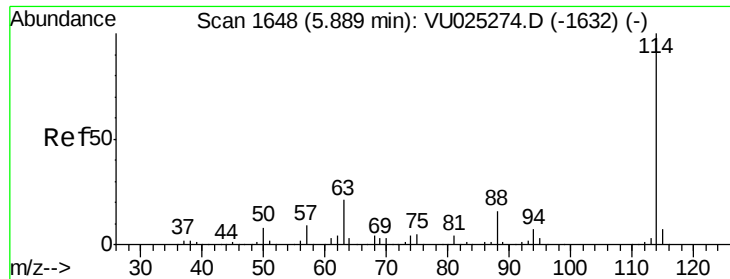
65 100

67 51.2 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

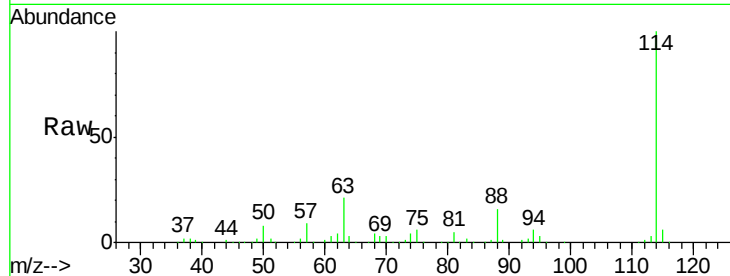




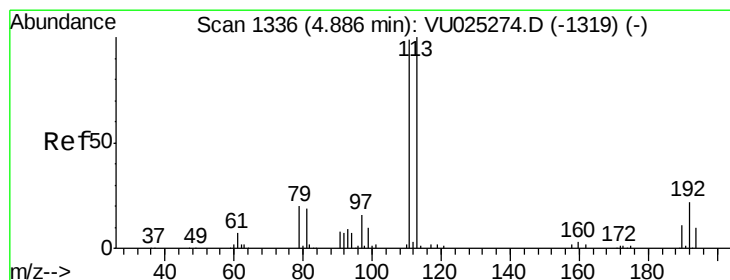
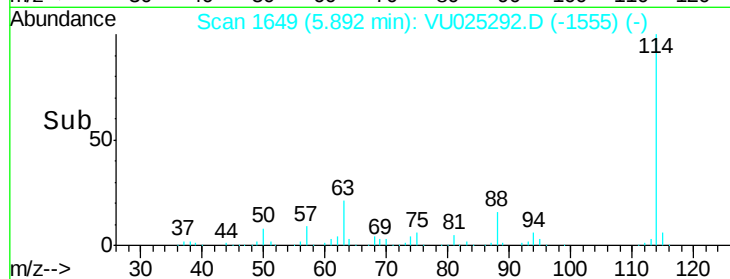
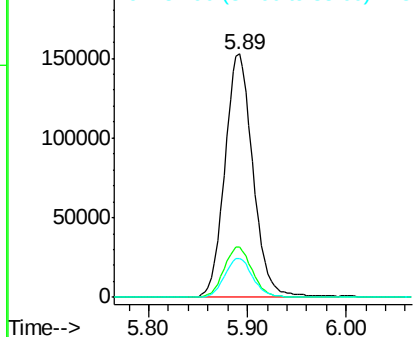
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025292.D
 Acq: 10 Jul 2018 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-070518

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.6
88	16.1	0.0	32.4

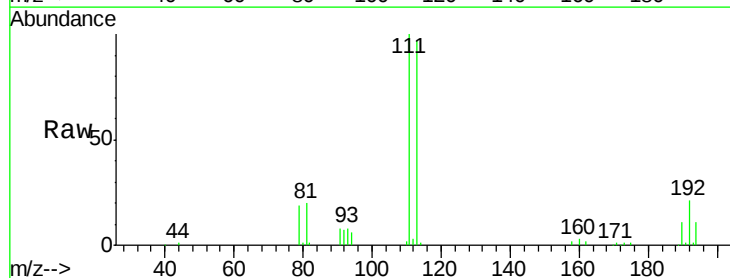


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

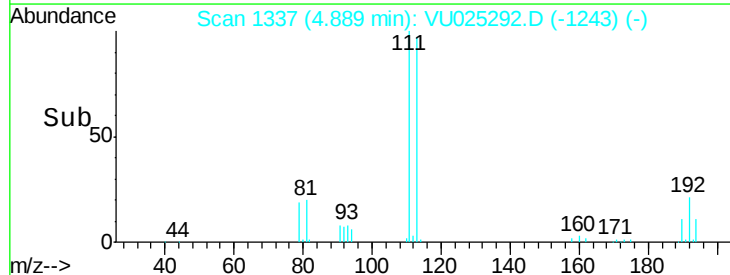
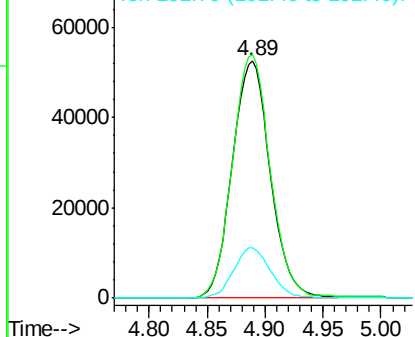


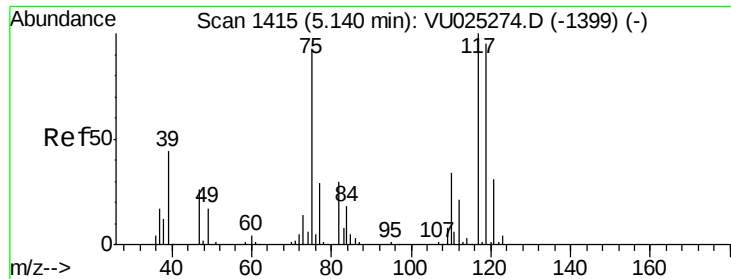
#35
 Dibromofluoromethane
 Concen: 46.57 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025292.D
 Acq: 10 Jul 2018 16:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.7	122.5
192	20.6	17.1	25.7



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

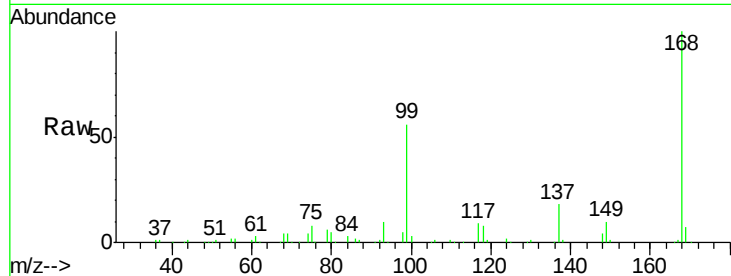




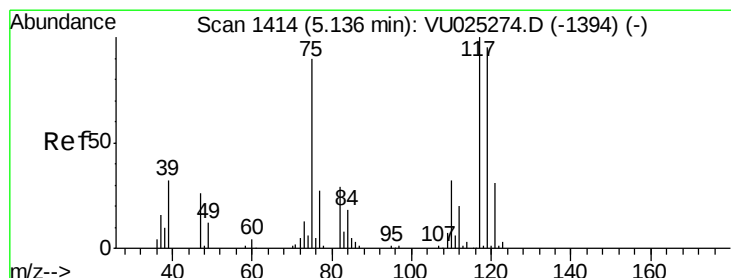
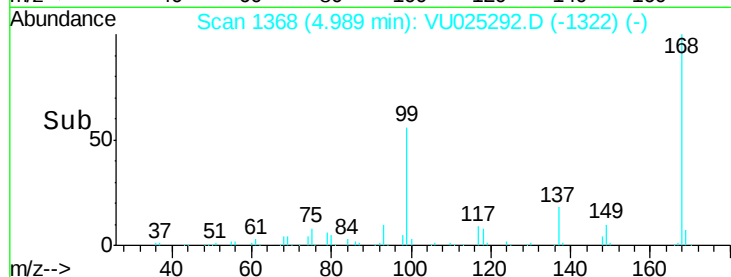
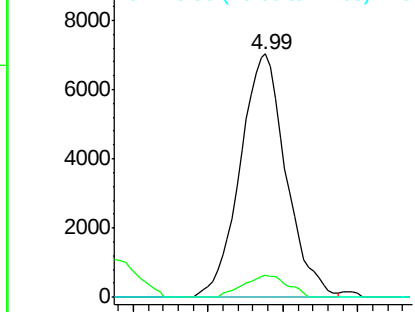
#36
 1,1-Dichloropropene
 Concen: 4.42 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025292.D
 Acq: 10 Jul 2018 16:28

Instrument :
 MSVOA_U
 ClientSampleId :
 DUP-070518

Tot Ion: 75 Resp: 15000
 Ion Ratio Lower Upper
 75 100
 110 8.7 17.6 52.9#
 77 0.0 24.4 36.6#

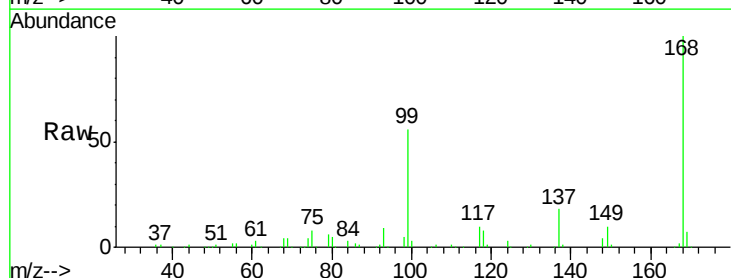


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

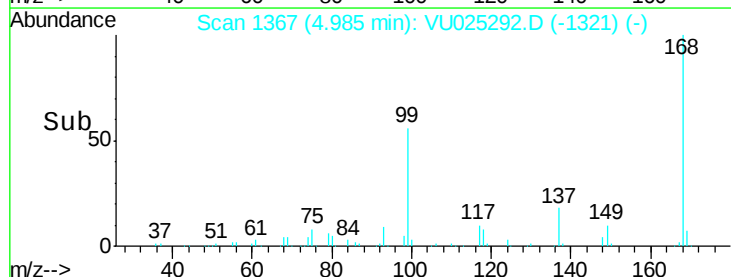
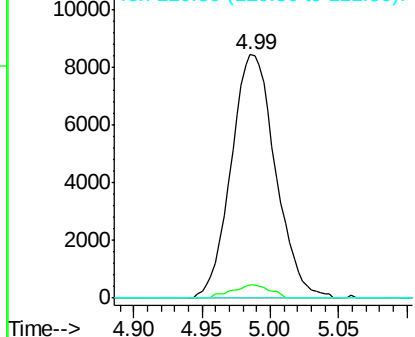


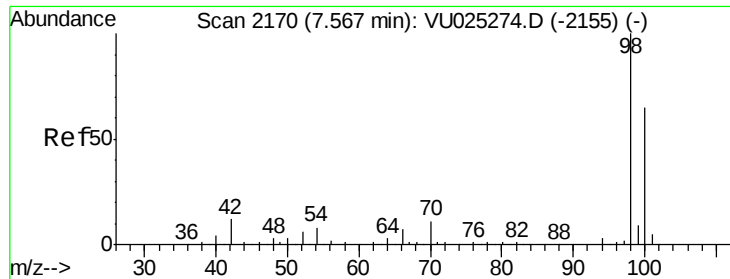
#38
 Carbon Tetrachloride
 Concen: 5.23 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025292.D
 Acq: 10 Jul 2018 16:28

Tgt Ion: 117 Resp: 19115
 Ion Ratio Lower Upper
 117 100
 119 5.4 75.7 113.5#
 121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.64 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

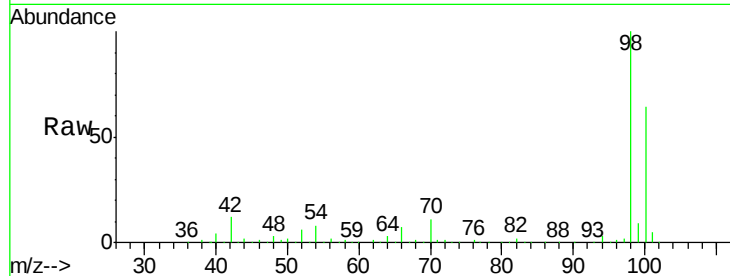
DUP-070518

Tot Ion: 98 Resp: 437771

Ion Ratio Lower Upper

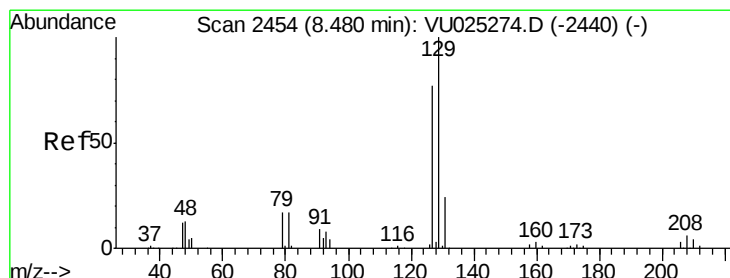
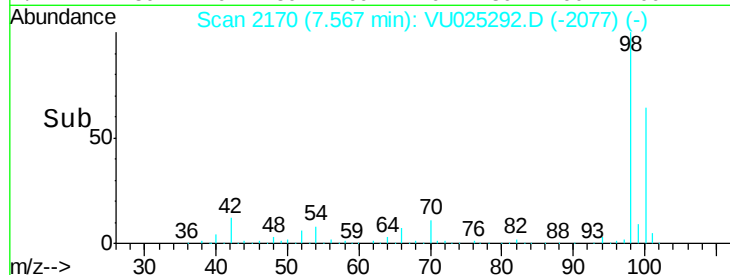
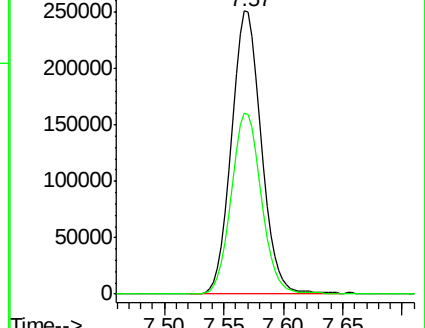
98 100

100 64.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU025292.D (-2077) (-)

Ion 100.00 (99.70 to 100.70): VU025292.D (-2077) (-)



#60

Dibromochloromethane

Concen: 1.30 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU025292.D

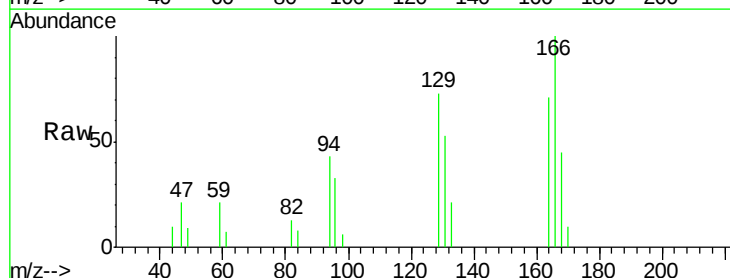
Acq: 10 Jul 2018 16:28

Tgt Ion: 129 Resp: 3648

Ion Ratio Lower Upper

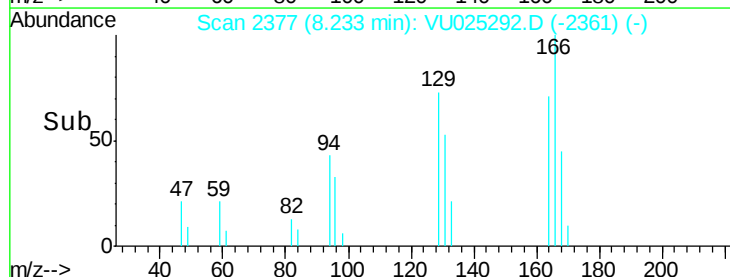
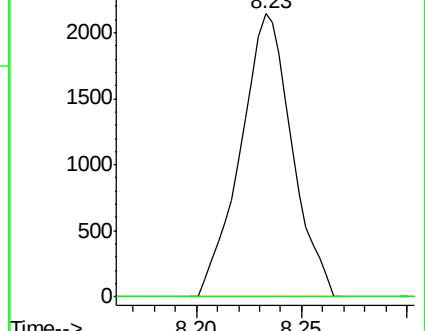
129 100

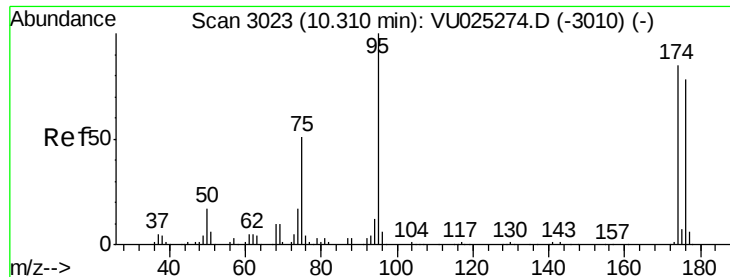
127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VU025292.D (-2361) (-)

Ion 126.80 (126.50 to 127.50): VU025292.D (-2361) (-)





#62

4-Bromofluorobenzene

Concen: 45.95 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

DUP-070518

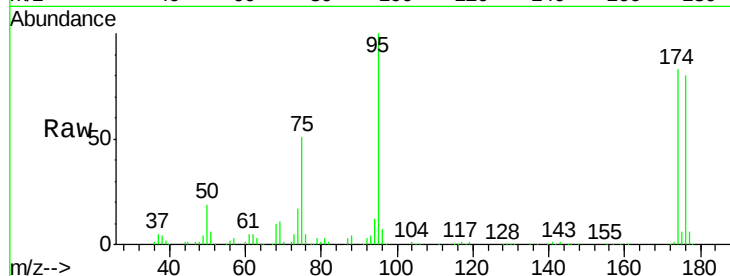
Tot Ion: 95 Resp: 163117

Ion Ratio Lower Upper

95 100

174 84.5 0.0 172.2

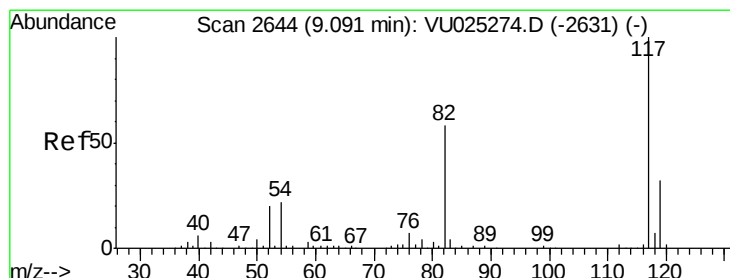
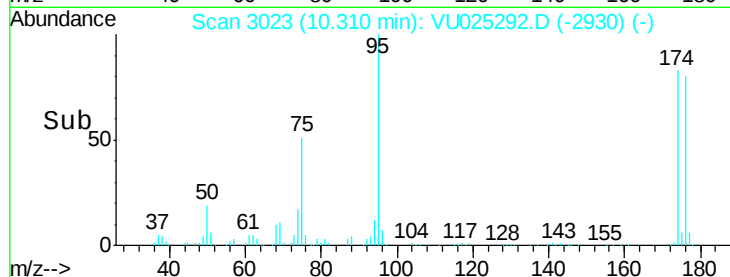
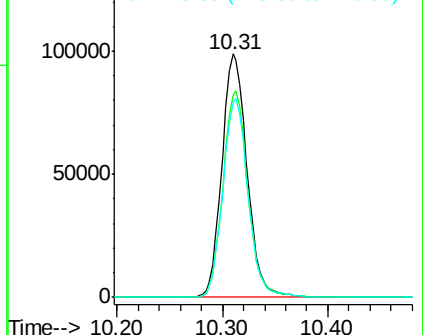
176 81.4 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025292.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025292.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025292.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

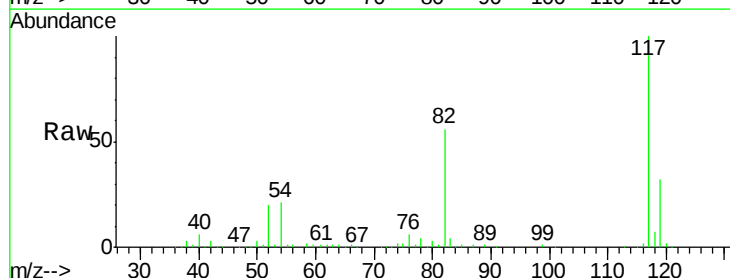
Tgt Ion: 117 Resp: 283184

Ion Ratio Lower Upper

117 100

82 55.9 46.0 69.0

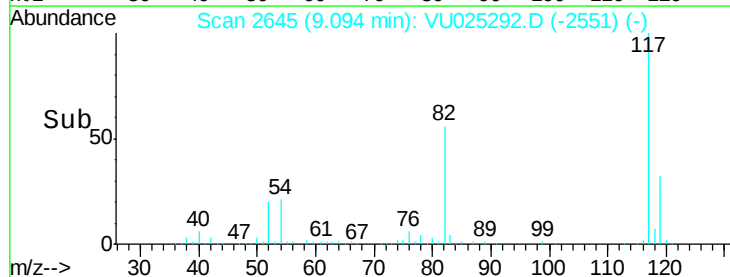
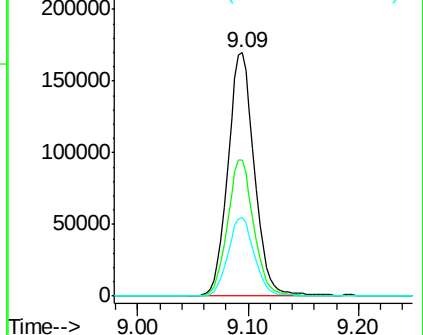
119 32.5 26.0 39.0

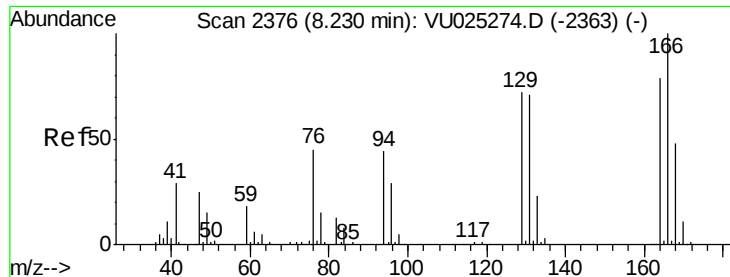


Abundance Ion 116.90 (116.60 to 117.60): VU025292.D (-2551) (-)

Ion 82.00 (81.70 to 82.70): VU025292.D (-2551) (-)

Ion 118.90 (118.60 to 119.60): VU025292.D (-2551) (-)

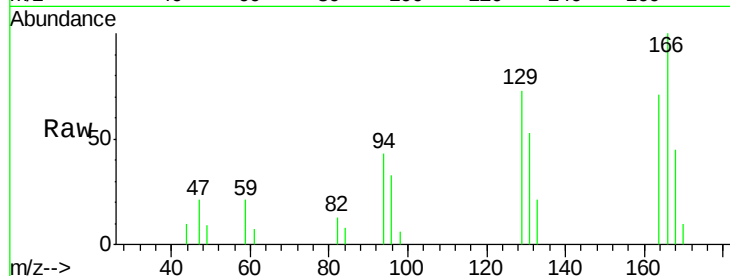




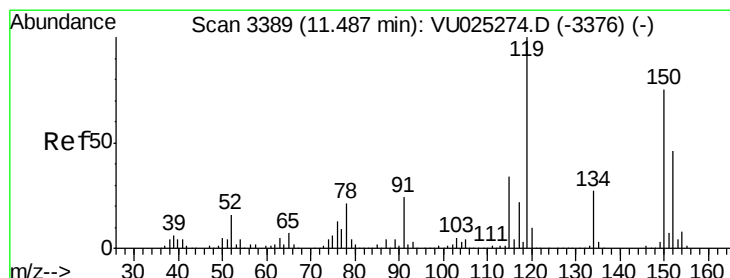
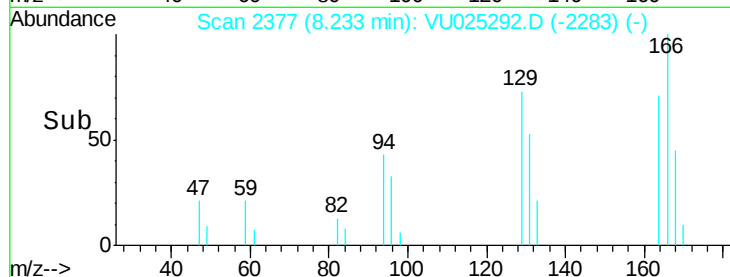
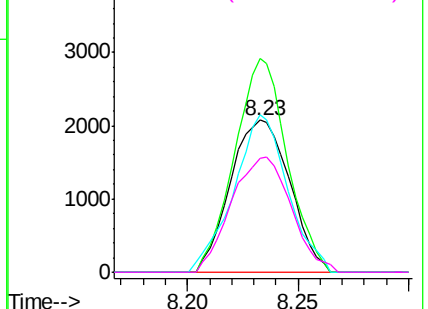
#64
Tetrachloroethene
Concen: 1.50 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU025292.D
Acq: 10 Jul 2018 16:28

Instrument :
MSVOA_U
ClientSampleId :
DUP-070518

Tot Ion:164 Resp: 3865
Ion Ratio Lower Upper
164 100
166 140.6 101.1 151.7
129 103.2 73.0 109.6
131 75.0 72.1 108.1

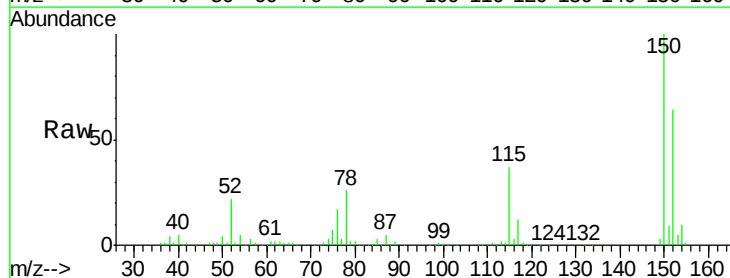


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

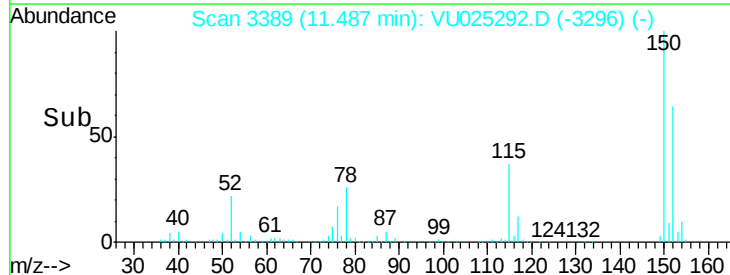
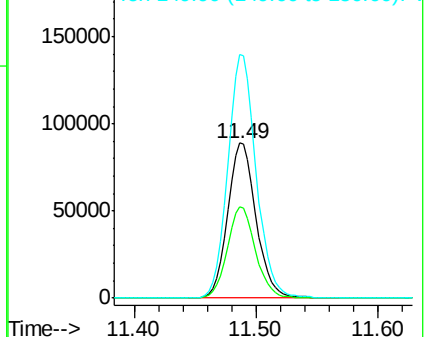


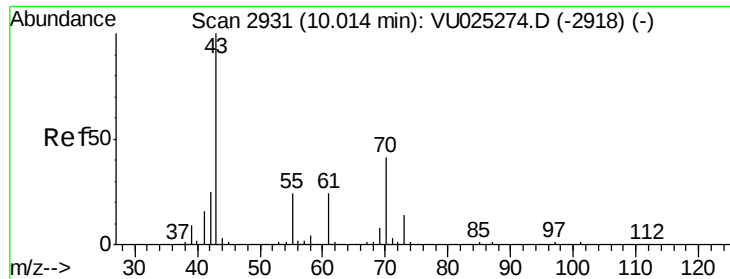
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. -0.00 min
Lab File: VU025292.D
Acq: 10 Jul 2018 16:28

Tgt Ion:152 Resp: 144797
Ion Ratio Lower Upper
152 100
115 58.4 40.1 120.3
150 156.8 0.0 351.4



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





#74

N-amvl acetate

Concen: 1.27 ug/l

RT: 10.04 min Scan# 2939

Delta R.T. 0.03 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

DUP-070518

Tot Ion: 43 Resp: 23

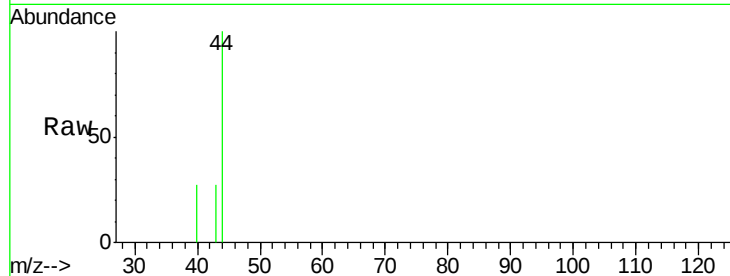
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.2#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

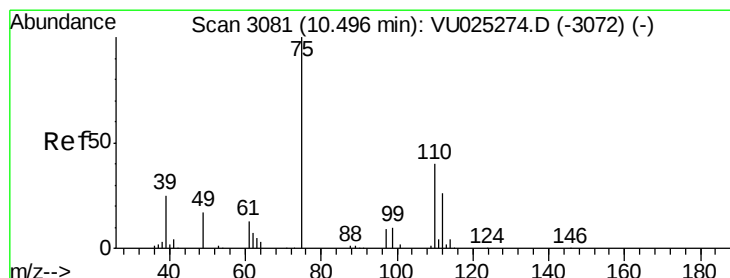
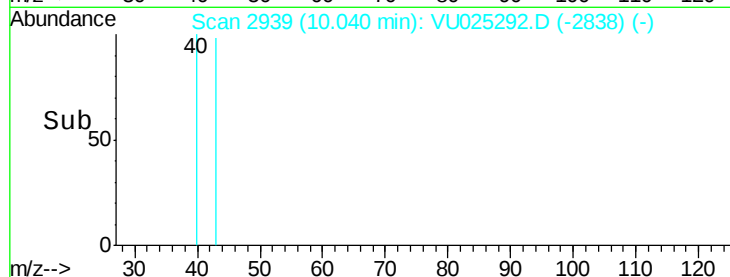
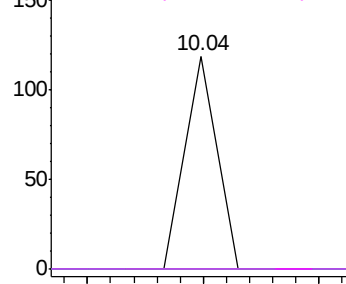


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 28.15 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025292.D

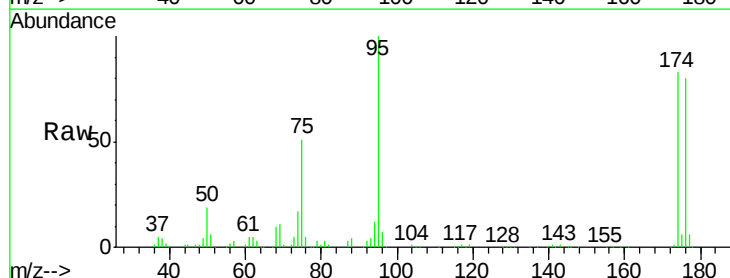
Acq: 10 Jul 2018 16:28

Tgt Ion: 75 Resp: 82969

Ion Ratio Lower Upper

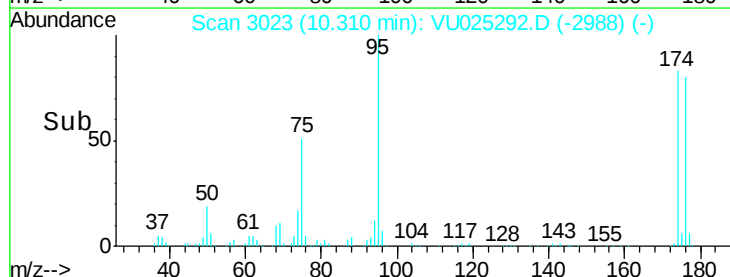
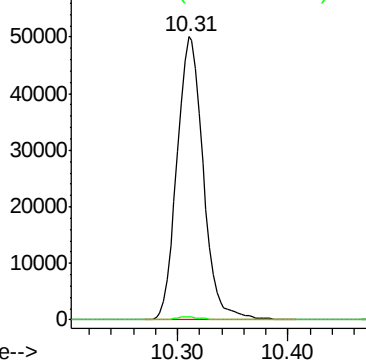
75 100

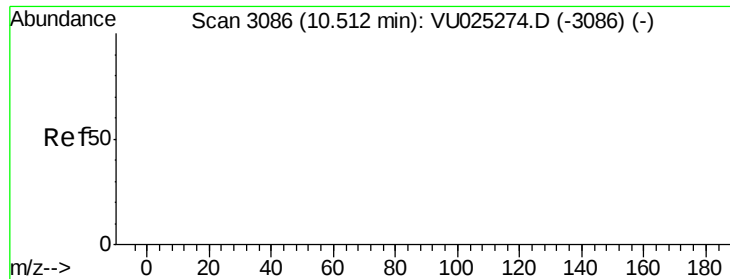
77 1.0 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

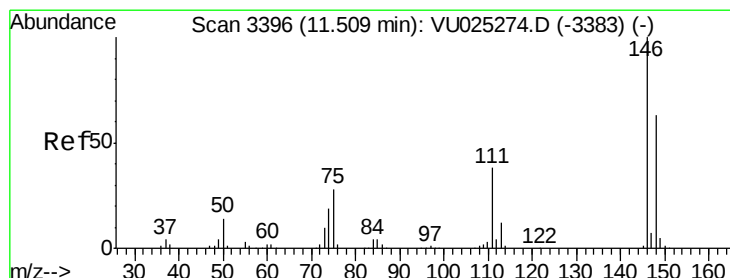
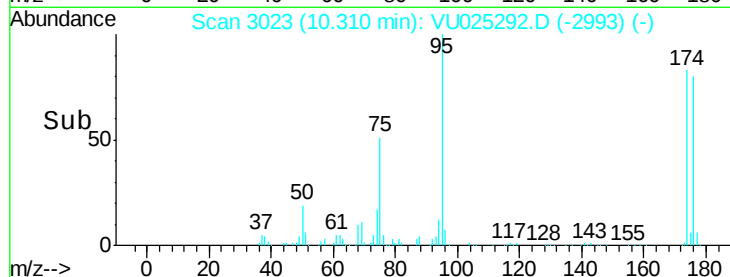
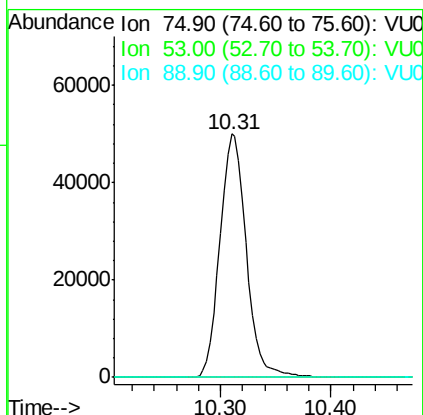
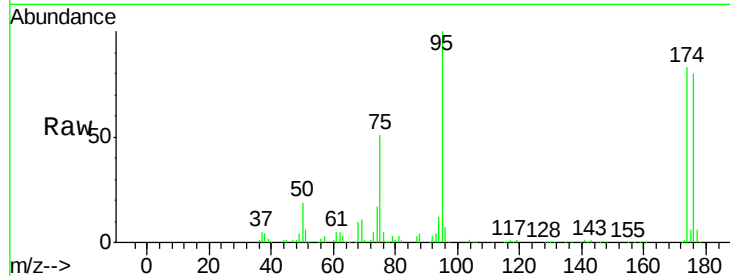




#81
trans-1,4-Dichloro-2-butene
Concen: 71.92 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025292.D
Acq: 10 Jul 2018 16:28

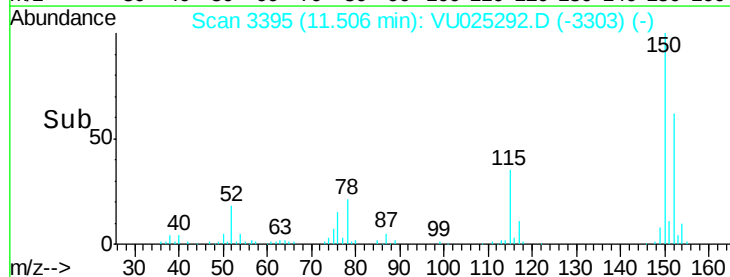
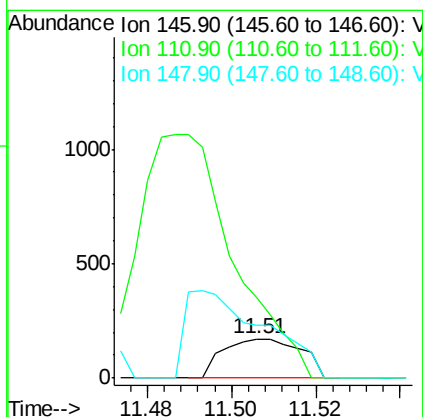
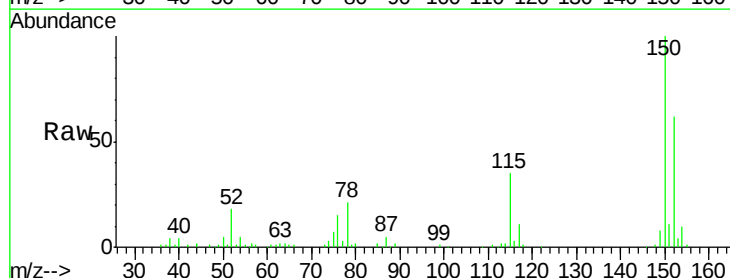
Instrument :
MSVOA_U
ClientSampleId :
DUP-070518

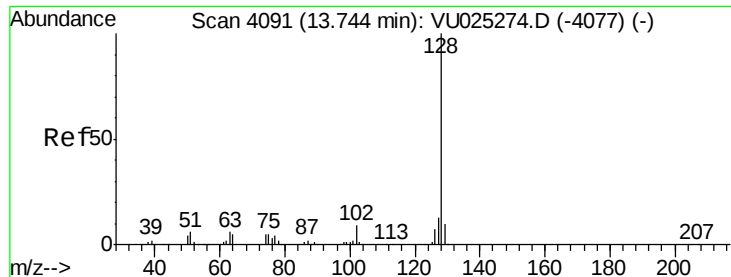
Tot Ion: 75 Resp: 82969
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0#



#88
1,4-Dichlorobenzene
Concen: 1.53 ug/l
RT: 11.51 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VU025292.D
Acq: 10 Jul 2018 16:28

Tgt Ion:146 Resp: 219
Ion Ratio Lower Upper
146 100
111 777.6 19.4 58.1#
148 227.4 31.7 95.1#





#95

Naphthalene

Concen: 2.50 ug/l

RT: 13.77 min Scan# 4100

Delta R.T. 0.03 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Instrument :

MSVOA_U

ClientSampleId :

DUP-070518

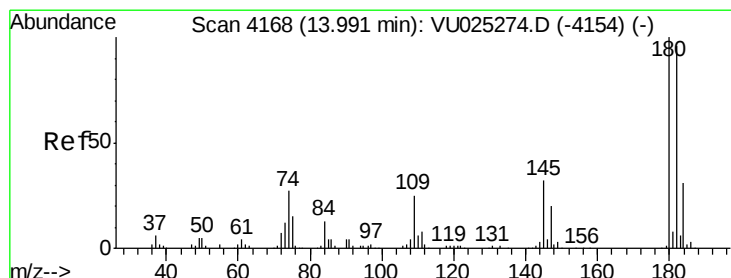
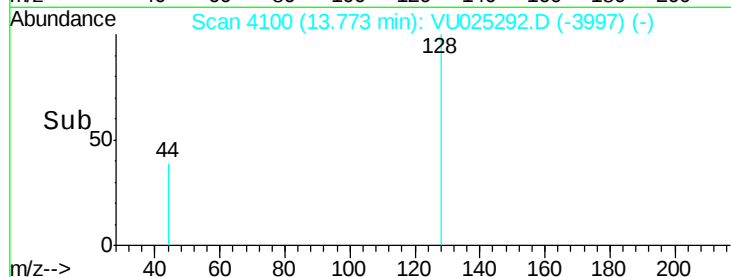
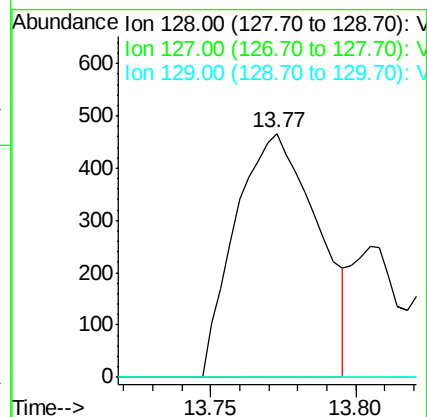
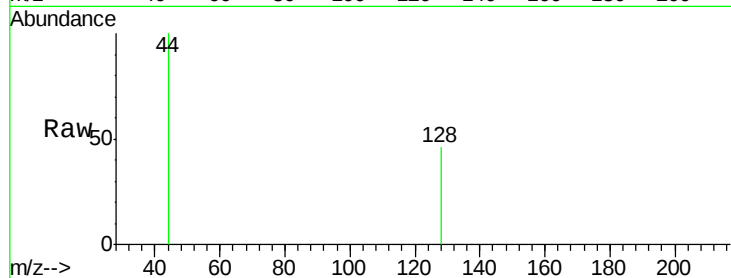
Tot Ion:128 Resp: 918

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.3 12.5#



#96

1,2,3-Trichlorobenzene

Concen: 2.55 ug/l

RT: 14.01 min Scan# 4174

Delta R.T. 0.02 min

Lab File: VU025292.D

Acq: 10 Jul 2018 16:28

Tgt Ion:180 Resp: 67

Ion Ratio Lower Upper

180 100

182 29.9 47.8 143.3#

145 0.0 15.6 46.8#

