

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121118\
 Data File : VU028557.D
 Acq On : 10 Dec 2018 17:35
 Operator : MD/SY
 Sample : J6323-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RE-126D3-20181207

Quant Time: Dec 11 03:39:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	86606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	160414	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	146309	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	58941	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	74559	56.41	ug/l	0.00
Spiked Amount			Recovery	=	112.82%	
35) Dibromofluoromethane	4.88	113	53480	52.98	ug/l	0.00
Spiked Amount			Recovery	=	105.96%	
50) Toluene-d8	7.57	98	208172	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
62) 4-Bromofluorobenzene	10.30	95	68657	46.00	ug/l	0.00
Spiked Amount			Recovery	=	92.00%	

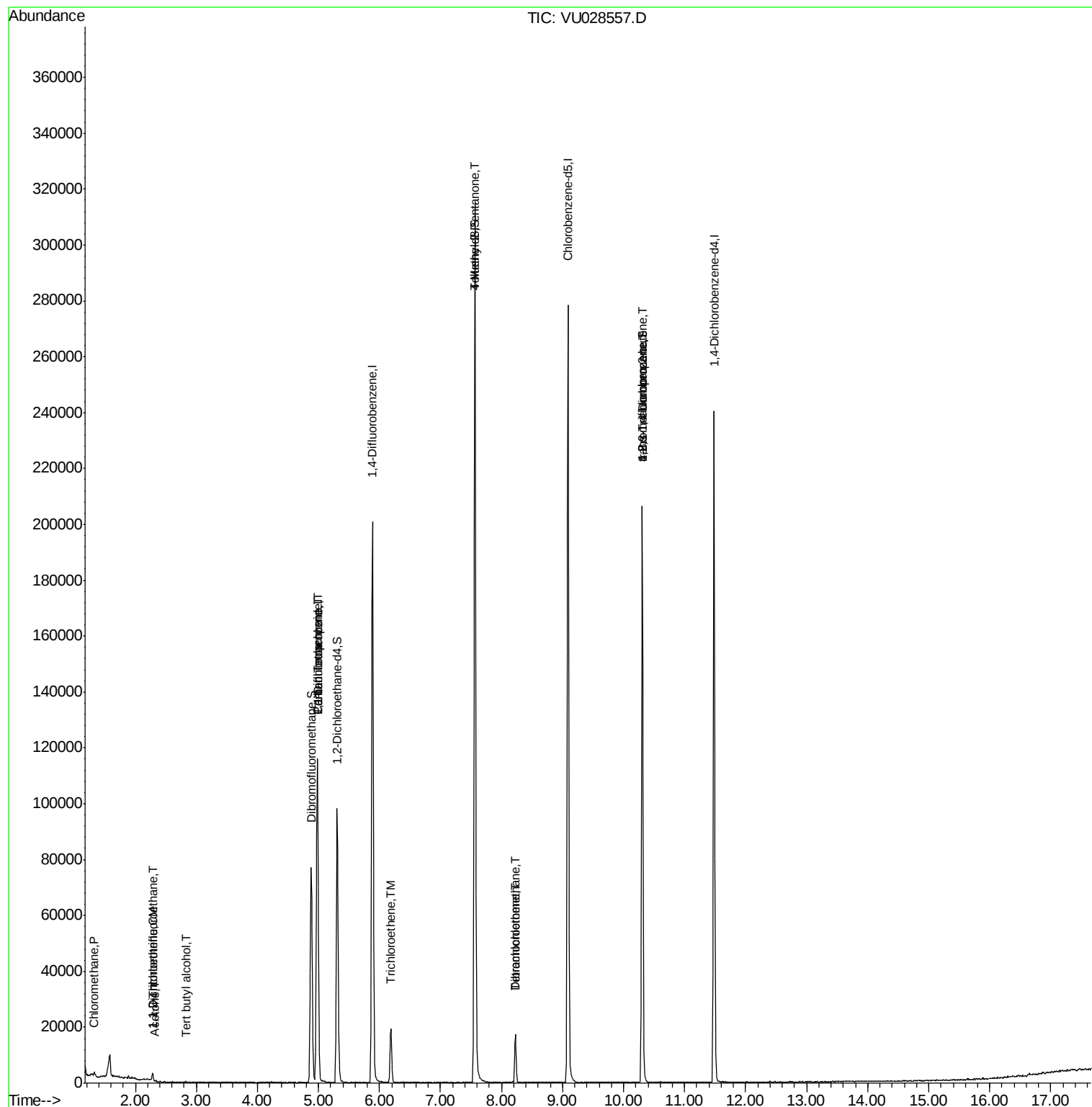
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1198	0.561	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.28	101	630	0.650	ug/l #	68
11) Tert butyl alcohol	2.82	59	149	0.506	ug/l #	73
12) 1,1-Dichloroethene	2.28	96	341	0.354	ug/l	85
16) Acetone	2.32	43	358	0.415	ug/l #	44
31) Cyclohexane	4.98	56	2100	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7998	4.556	ug/l #	49
38) Carbon Tetrachloride	4.98	117	8450	5.972	ug/l #	16
44) Trichloroethene	6.19	130	6471	5.629	ug/l	97
51) 4-Methyl-2-Pentanone	7.57	43	934	0.413	ug/l #	1
60) Dibromochloromethane	8.23	129	3931	3.338	ug/l #	10
64) Tetrachloroethene	8.22	164	3981	4.079	ug/l	95
76) 1,2,3-Trichloropropane	10.30	75	37194	24.712	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.30	75	37194	60.647	ug/l #	100

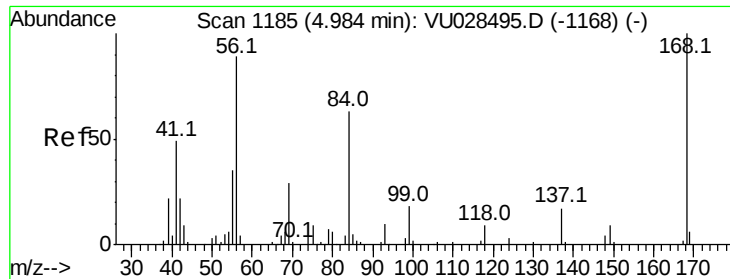
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

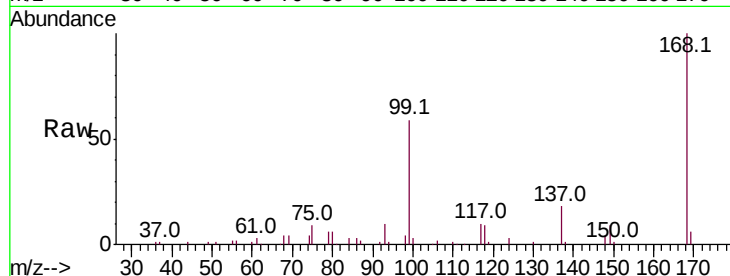
RE-126D3-20181207

Tot Ion:168 Resp: 86606

Ion Ratio Lower Upper

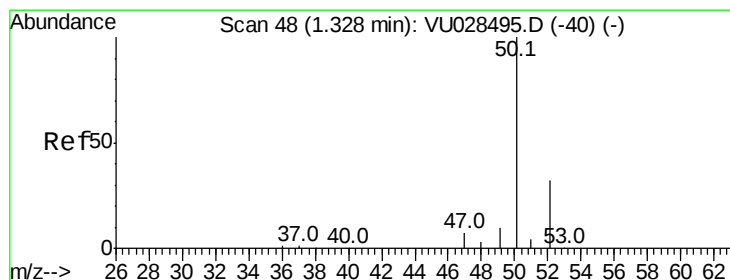
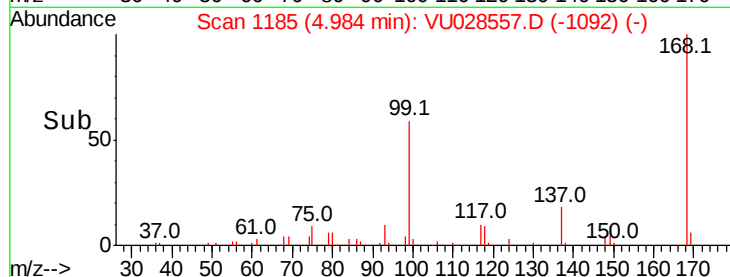
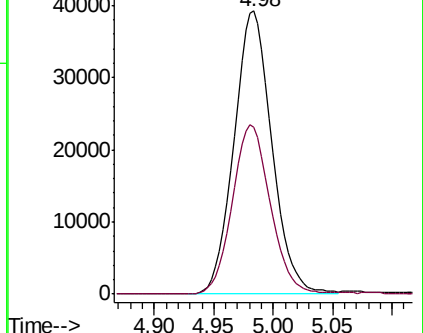
168 100

99 59.1 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)



#3

Chloromethane

Concen: 0.561 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028557.D

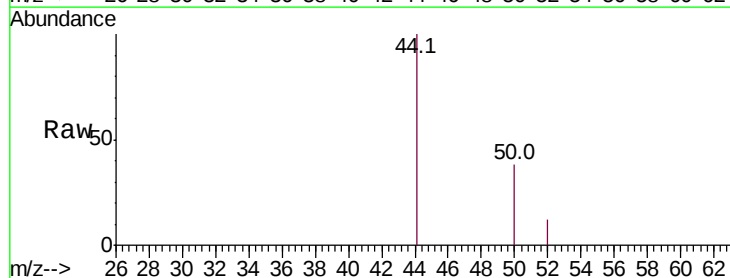
Acq: 10 Dec 2018 17:35

Tgt Ion: 50 Resp: 1198

Ion Ratio Lower Upper

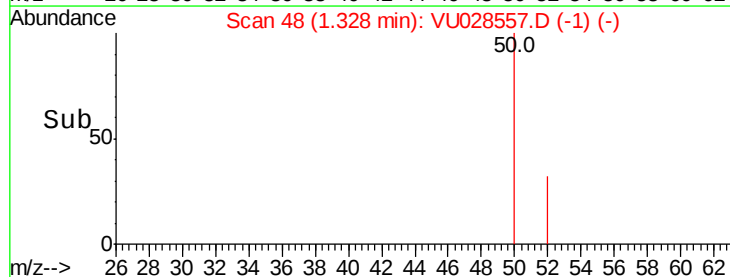
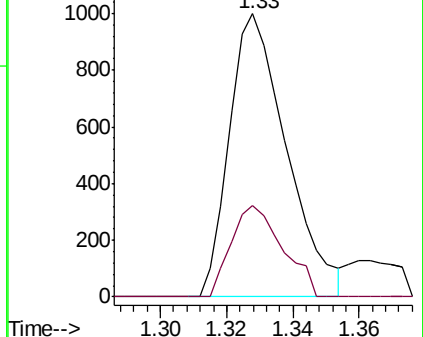
50 100

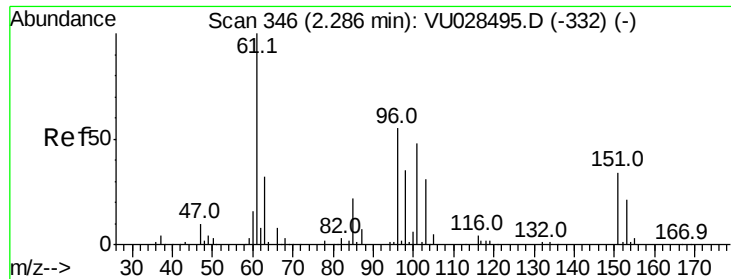
52 32.2 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.650 ug/l

RT: 2.28 min Scan# 345

Delta R.T. -0.00 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

RE-126D3-20181207

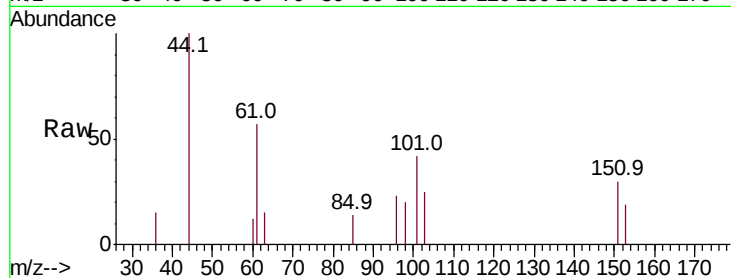
Tot Ion:101 Resp: 630

Ion Ratio Lower Upper

101 100

85 24.0 36.4 54.6#

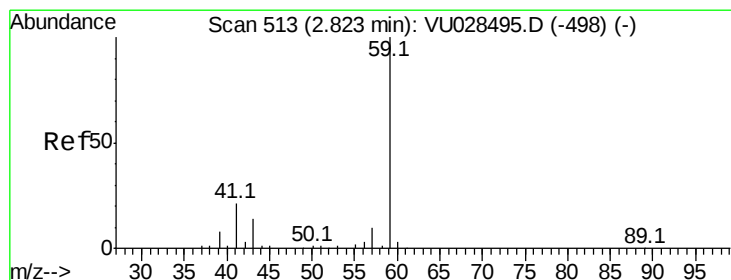
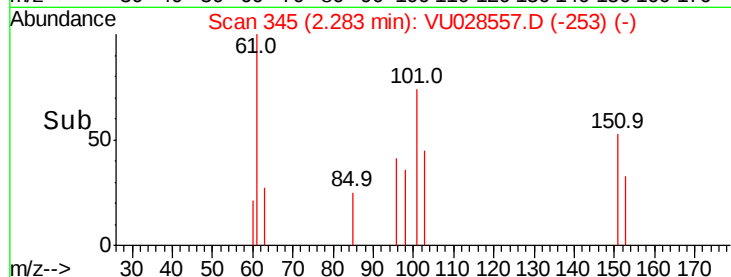
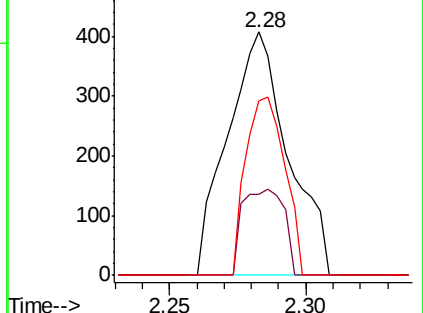
151 46.7 58.2 87.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.506 ug/l

RT: 2.82 min Scan# 512

Delta R.T. -0.00 min

Lab File: VU028557.D

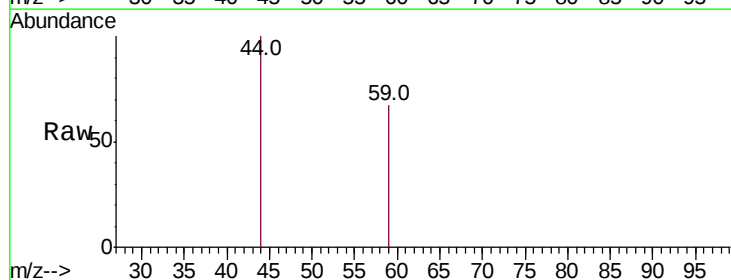
Acq: 10 Dec 2018 17:35

Tgt Ion: 59 Resp: 149

Ion Ratio Lower Upper

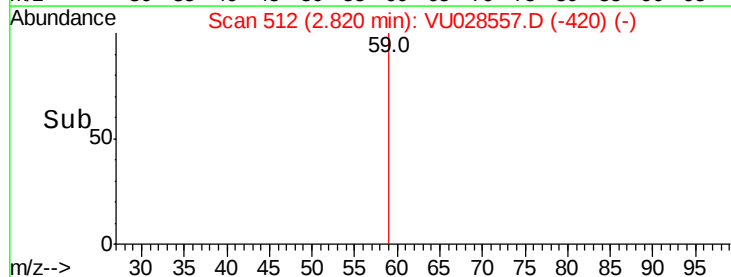
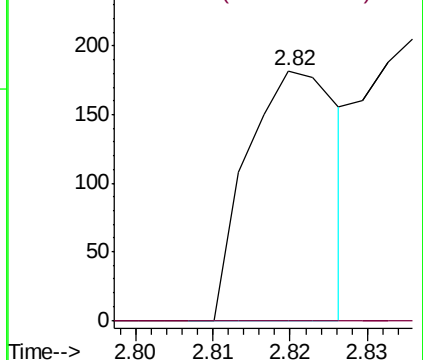
59 100

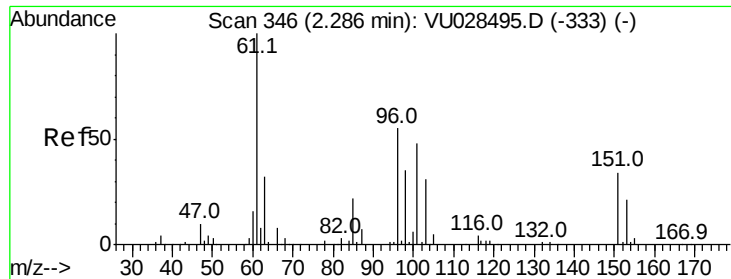
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#12

1,1-Dichloroethene

Concen: 0.354 ug/l

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

RE-126D3-20181207

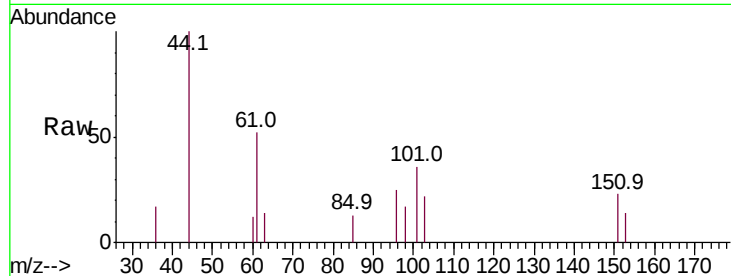
Tot Ion: 96 Resp: 341

Ion Ratio Lower Upper

96 100

61 209.8 146.4 219.6

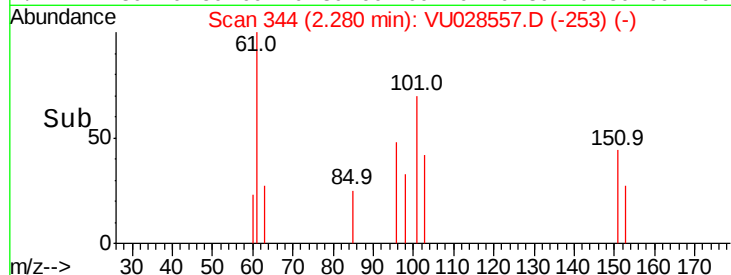
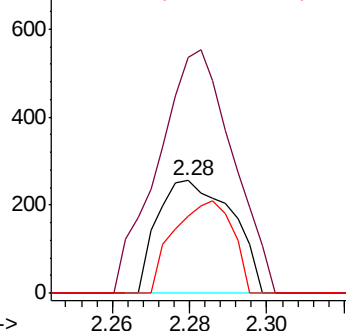
98 69.0 51.8 77.8



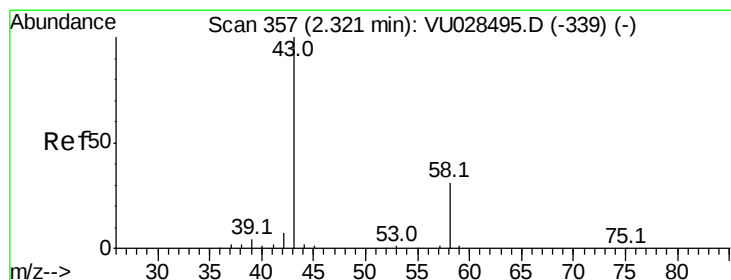
Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



Time-->



#16

Acetone

Concen: 0.415 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028557.D

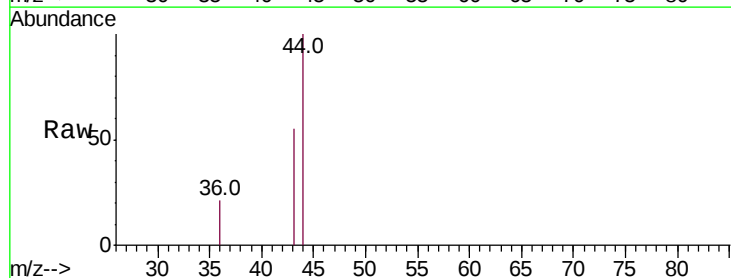
Acq: 10 Dec 2018 17:35

Tgt Ion: 43 Resp: 358

Ion Ratio Lower Upper

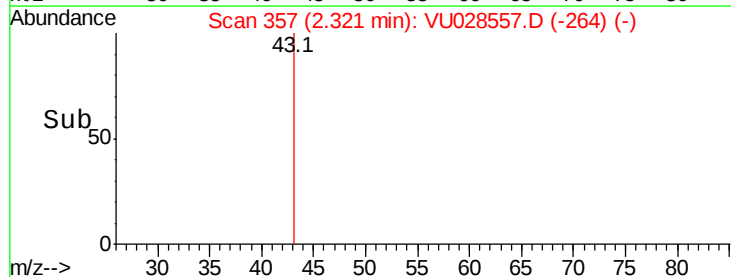
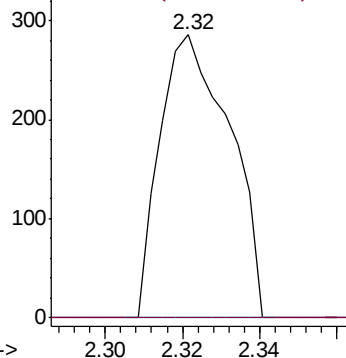
43 100

58 0.0 24.6 37.0#

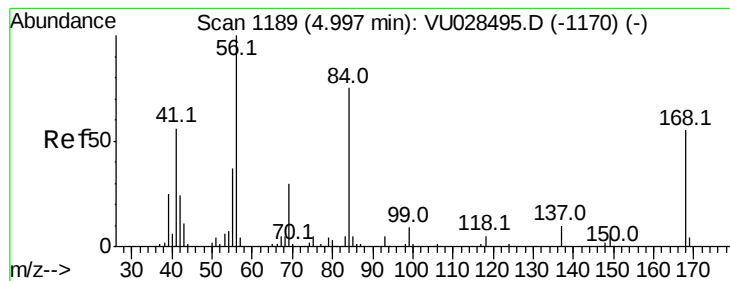


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

RE-126D3-20181207

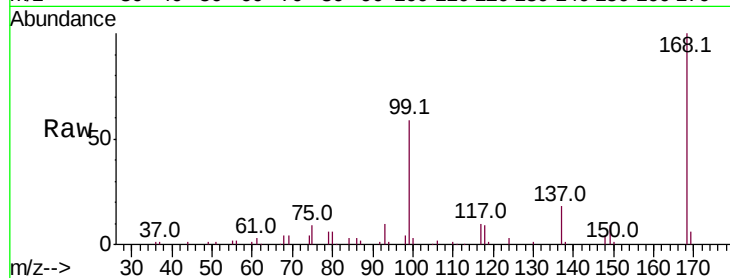
Tot Ion: 56 Resp: 2100

Ion Ratio Lower Upper

56 100

69 154.5 24.0 36.0#

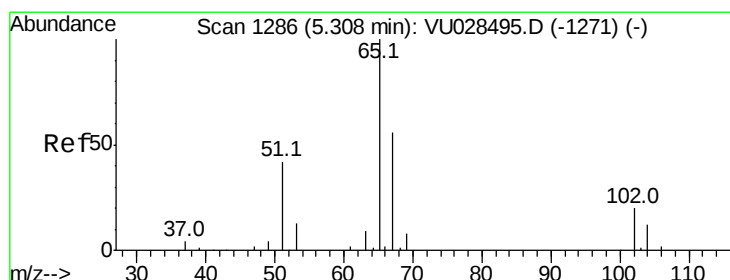
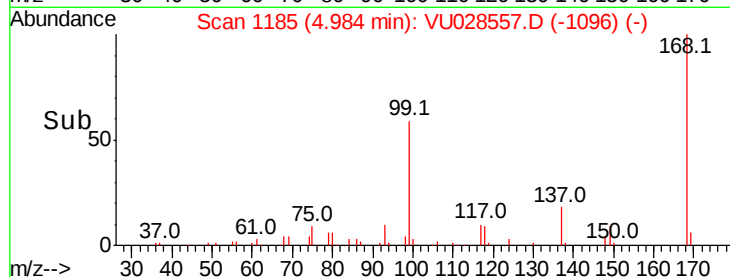
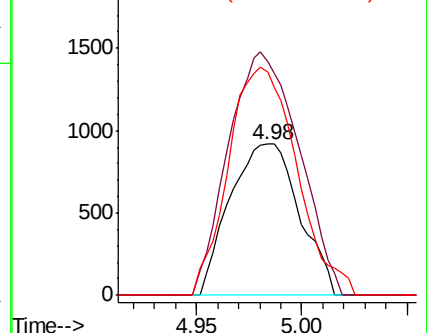
84 147.7 59.7 89.5#



Abundance Ion 56.00 (55.70 to 56.70): VU028495.D (-1170) (-)

Ion 69.00 (68.70 to 69.70): VU028495.D (-1170) (-)

Ion 84.00 (83.70 to 84.70): VU028495.D (-1170) (-)



#33

1,2-Dichloroethane-d4

Concen: 56.413 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028557.D

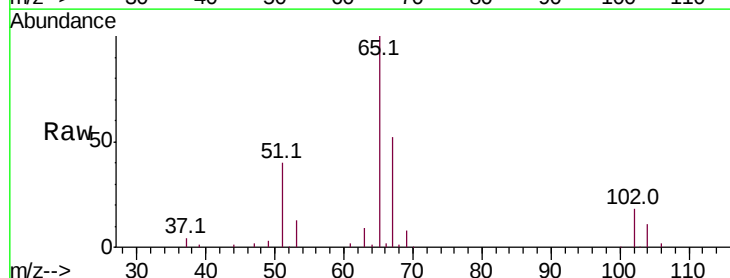
Acq: 10 Dec 2018 17:35

Tgt Ion: 65 Resp: 74559

Ion Ratio Lower Upper

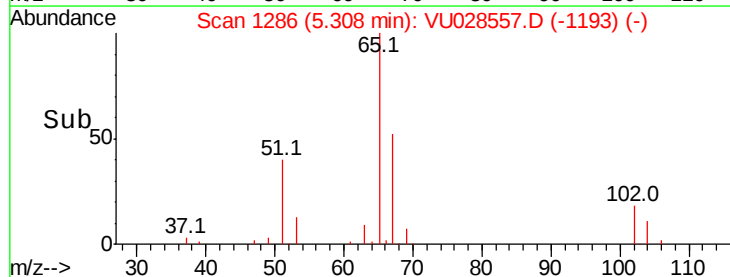
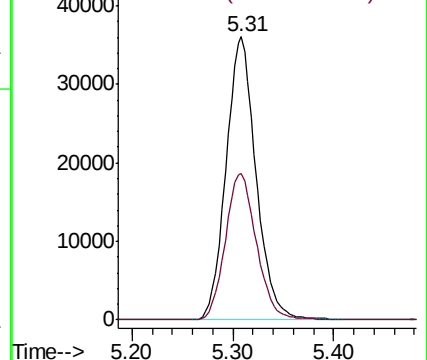
65 100

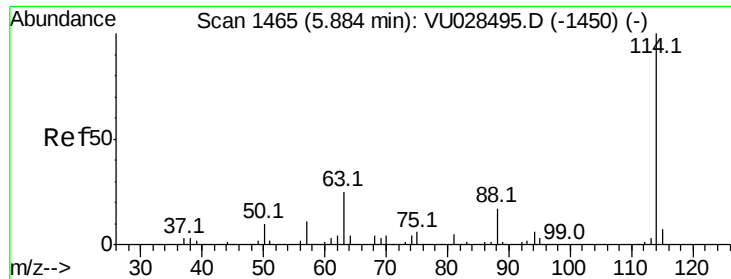
67 53.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU028495.D (-1271) (-)

Ion 66.90 (66.60 to 67.60): VU028495.D (-1271) (-)

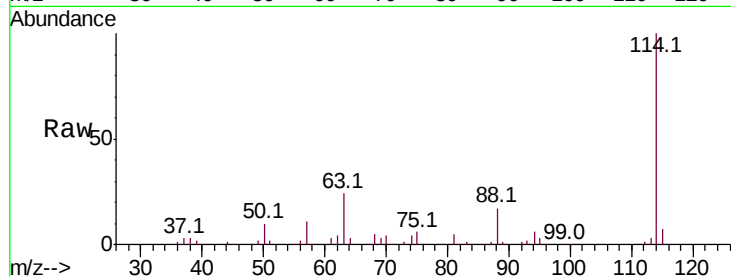




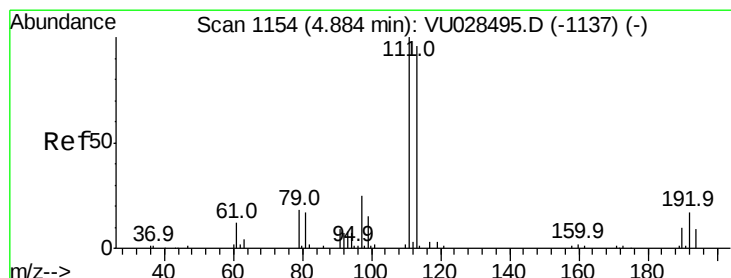
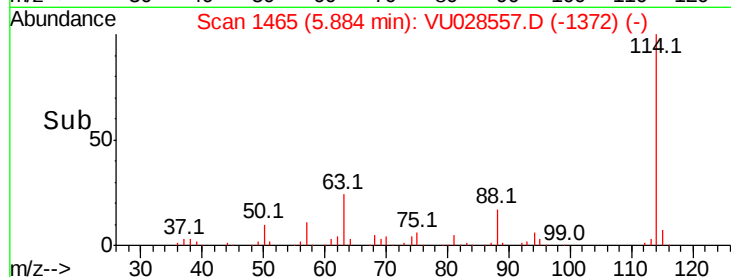
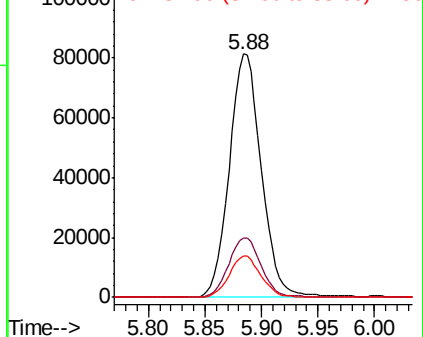
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. 0.00 min
 Lab File: VU028557.D
 Acq: 10 Dec 2018 17:35

Instrument :
 MSVOA_U
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 RE-126D3-20181207

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	49.2
88	17.0	0.0	33.4

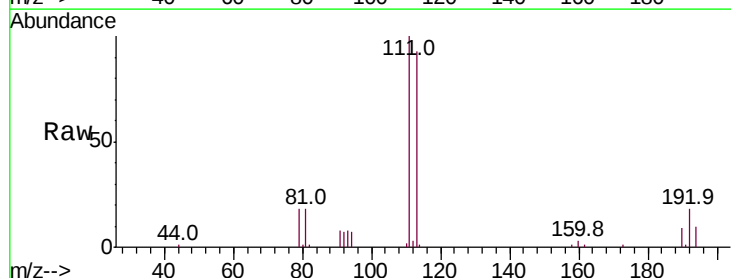


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

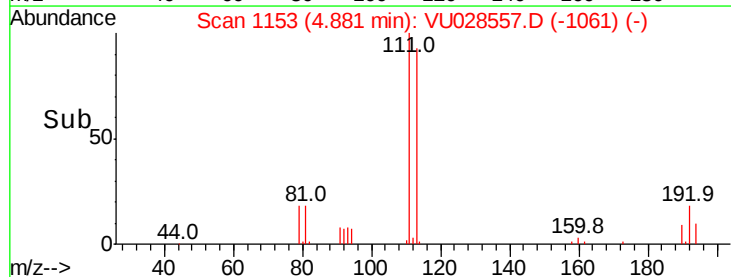
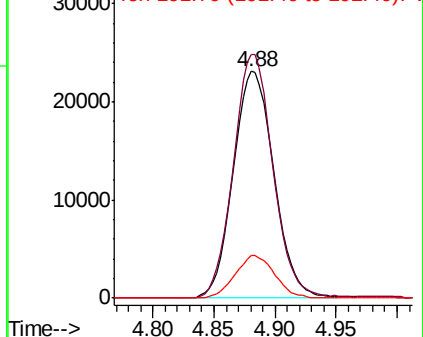


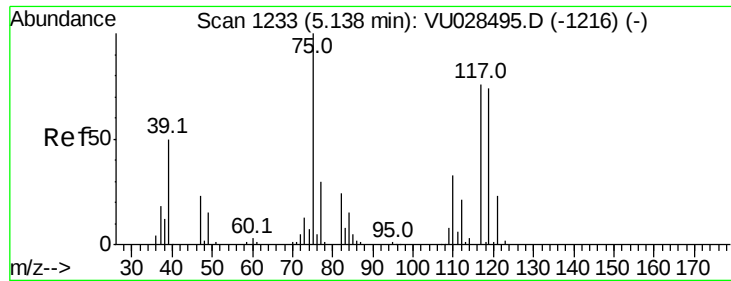
#35
 Dibromofluoromethane
 Concen: 52.977 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028557.D
 Acq: 10 Dec 2018 17:35

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.5	83.4	125.0
192	18.2	14.8	22.2



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: 4.556 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

RE-126D3-20181207

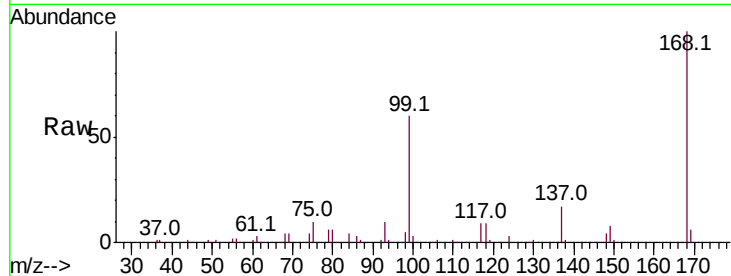
Tot Ion: 75 Resp: 7998

Ion Ratio Lower Upper

75 100

110 6.0 16.1 48.2#

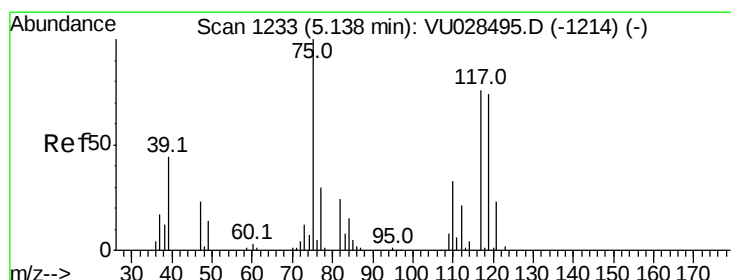
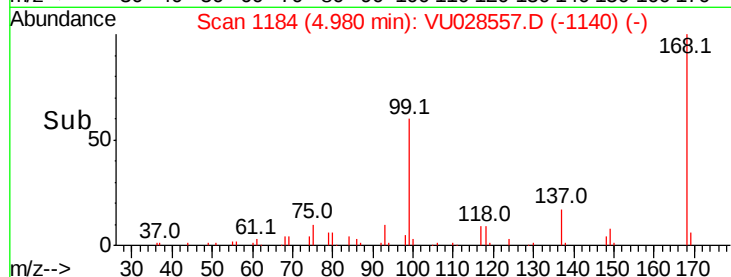
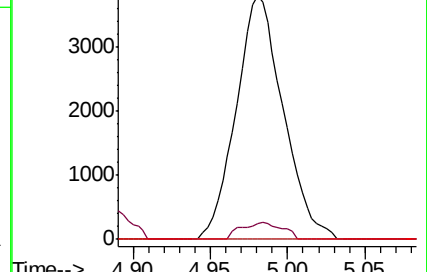
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VU028495.D (-1216) (-)

Ion 109.90 (109.60 to 110.60): VU028495.D (-1216) (-)

Ion 76.90 (76.60 to 77.60): VU028495.D (-1216) (-)



#38

Carbon Tetrachloride

Concen: 5.972 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

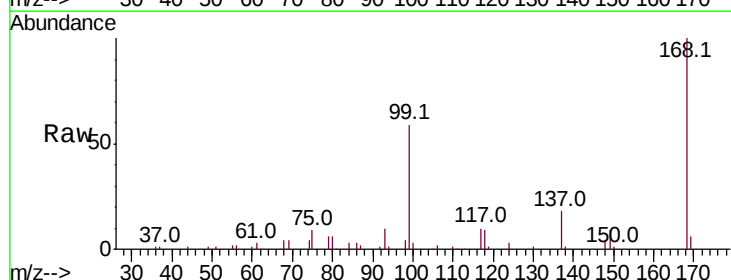
Tgt Ion: 117 Resp: 8450

Ion Ratio Lower Upper

117 100

119 6.2 77.6 116.4#

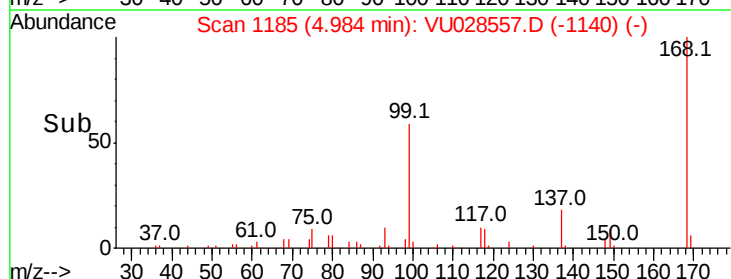
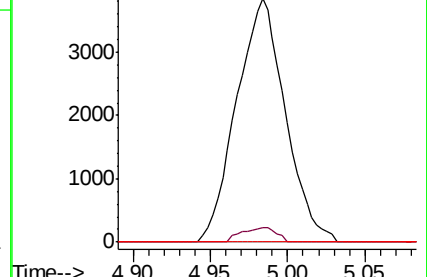
121 0.0 24.6 36.8#

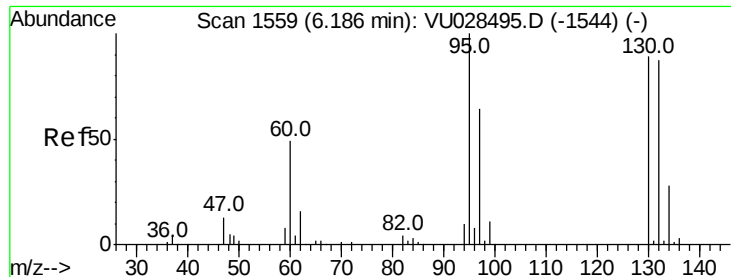


Abundance Ion 116.80 (116.50 to 117.50): VU028495.D (-1214) (-)

Ion 118.80 (118.50 to 119.50): VU028495.D (-1214) (-)

Ion 120.80 (120.50 to 121.50): VU028495.D (-1214) (-)





#44

Trichloroethene

Concen: 5.629 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

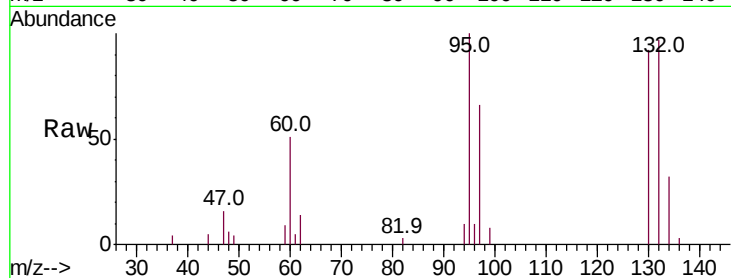
RE-126D3-20181207

Tot Ion:130 Resp: 6471

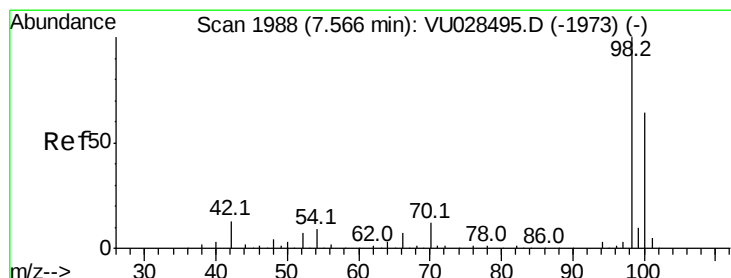
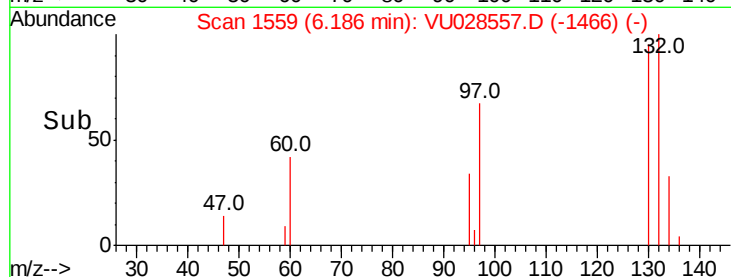
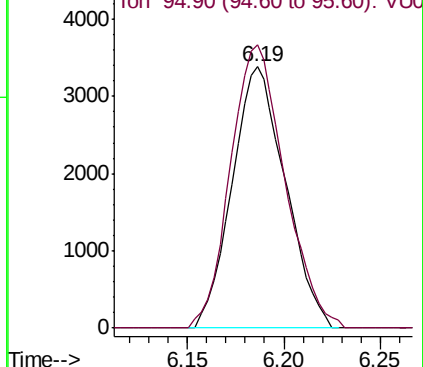
Ion Ratio Lower Upper

130 100

95 108.4 0.0 224.0



Abundance Ion 129.80 (129.50 to 130.50): VU028495.D (-1544) (-)



#50

Toluene-d8

Concen: 52.129 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028557.D

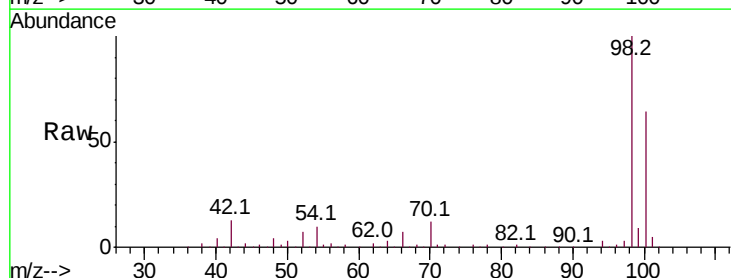
Acq: 10 Dec 2018 17:35

Tgt Ion: 98 Resp: 208172

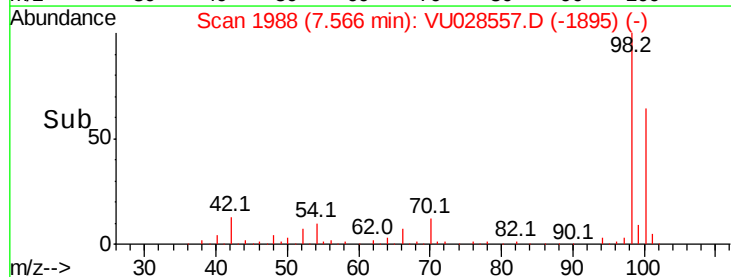
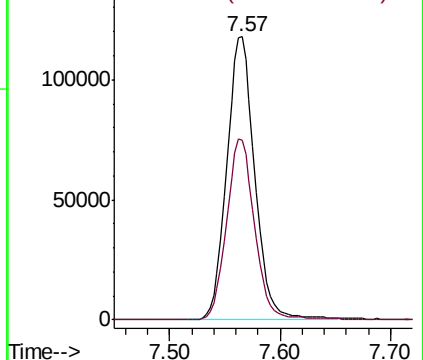
Ion Ratio Lower Upper

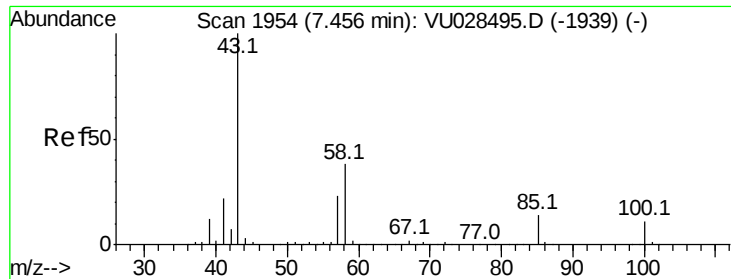
98 100

100 64.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU028495.D (-1973) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.413 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.11 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

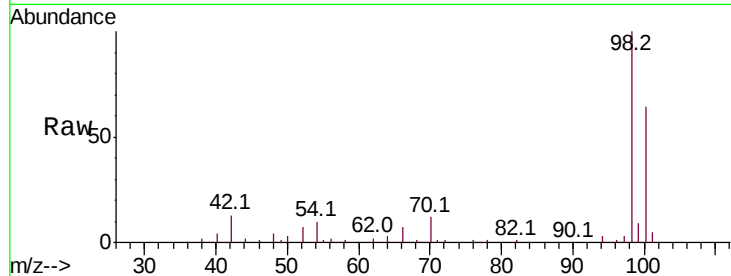
RE-126D3-20181207

Tot Ion: 43 Resp: 934

Ion Ratio Lower Upper

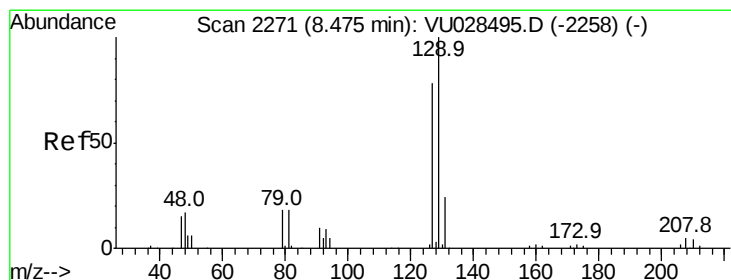
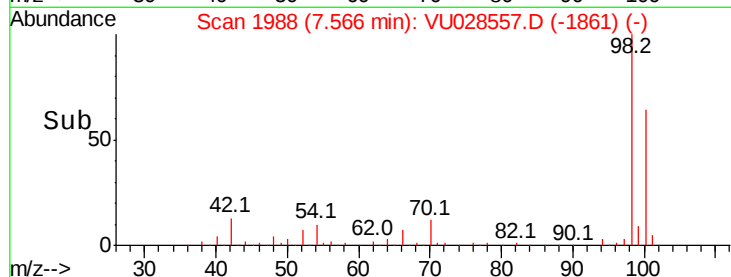
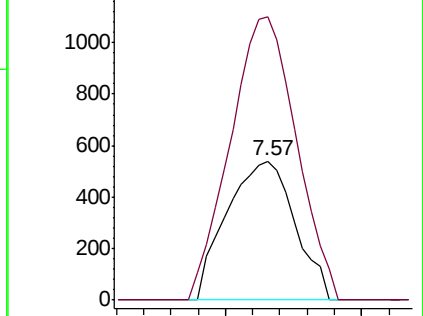
43 100

58 197.6 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-1939) (-)

Ion 58.00 (57.70 to 58.70): VU028495.D (-1939) (-)



#60

Dibromochloromethane

Concen: 3.338 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VU028557.D

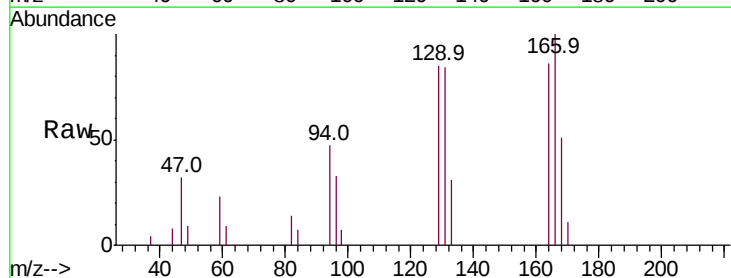
Acq: 10 Dec 2018 17:35

Tgt Ion: 129 Resp: 3931

Ion Ratio Lower Upper

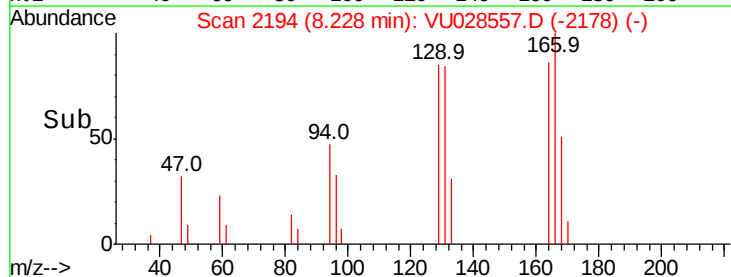
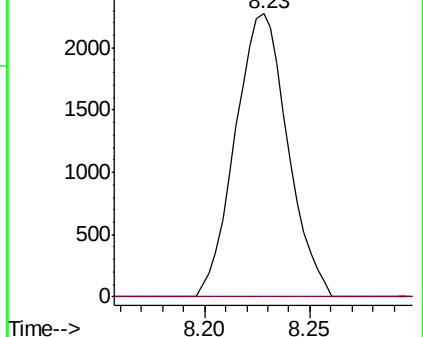
129 100

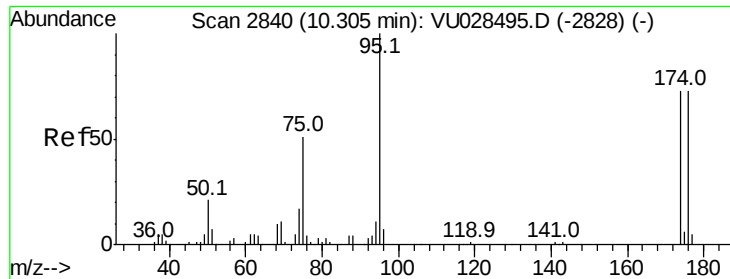
127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VU028495.D (-2258) (-)

Ion 126.80 (126.50 to 127.50): VU028495.D (-2258) (-)





#62

4-Bromofluorobenzene

Concen: 45.999 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

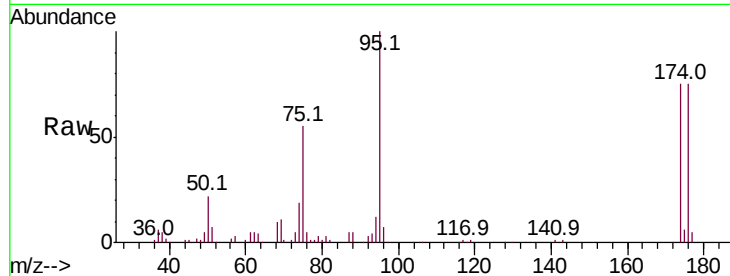
MSVOA_U

ClientSampleId :

RE-126D3-20181207

Tot Ion: 95 Resp: 68657

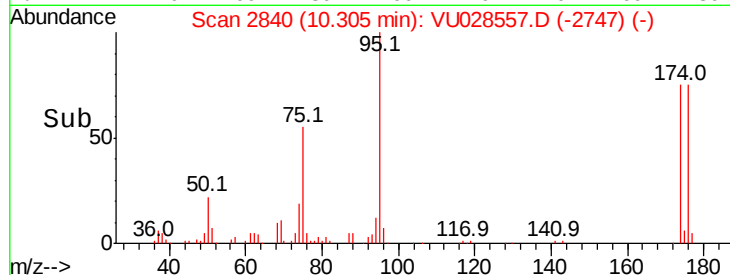
Ion	Ratio	Lower	Upper
95	100		
174	75.9	0.0	150.4
176	73.9	0.0	145.2



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

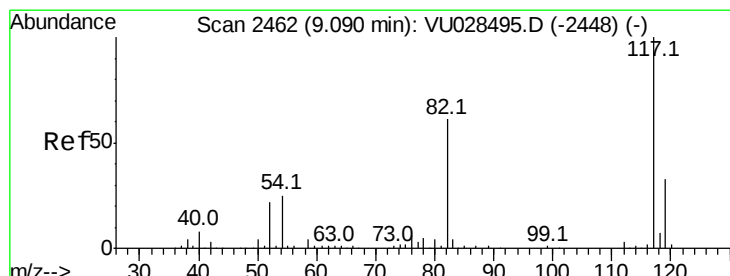
Ion 175.80 (175.50 to 176.50): V



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

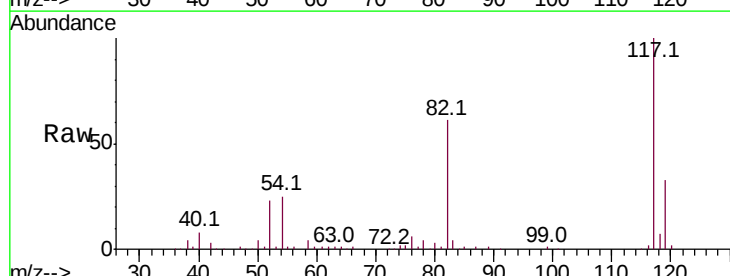
Delta R.T. -0.00 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Tgt Ion: 117 Resp: 146309

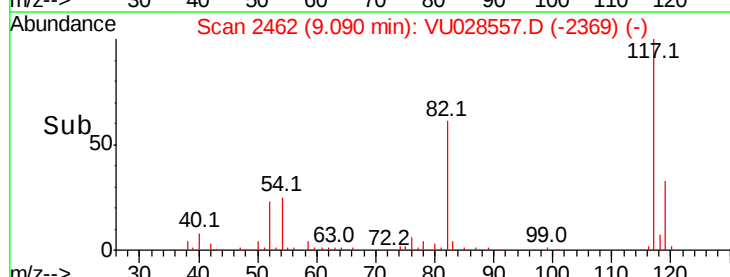
Ion	Ratio	Lower	Upper
117	100		
82	61.3	48.9	73.3
119	32.5	26.2	39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

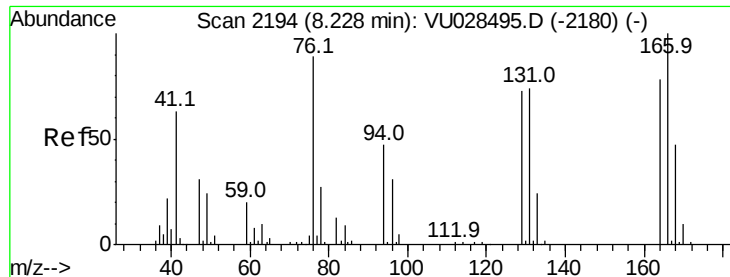
Ion 118.90 (118.60 to 119.60): V



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 4.079 ug/l

RT: 8.22 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

RE-126D3-20181207

Tot Ion:164 Resp: 3981

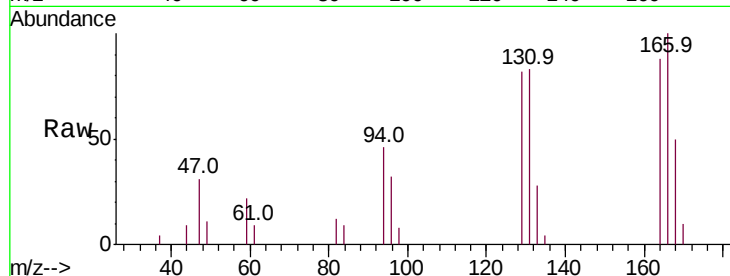
Ion Ratio Lower Upper

164 100

166 114.1 101.9 152.9

129 93.0 74.9 112.3

131 95.2 75.4 113.0

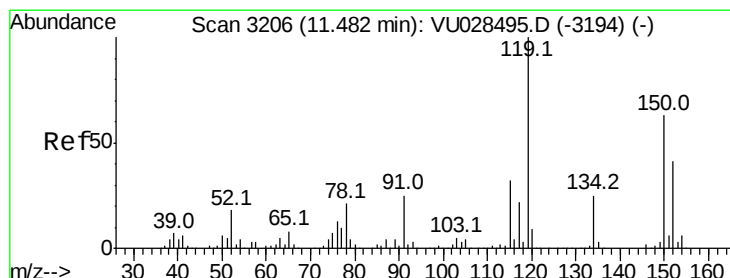
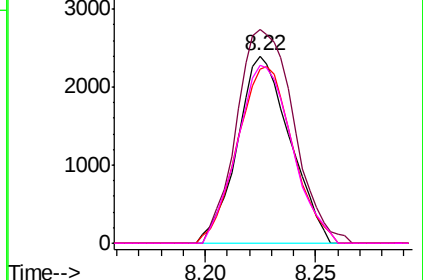
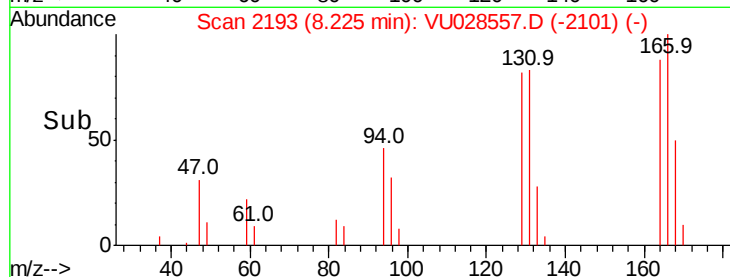


Abundance Ion 163.80 (163.50 to 164.50): V

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: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

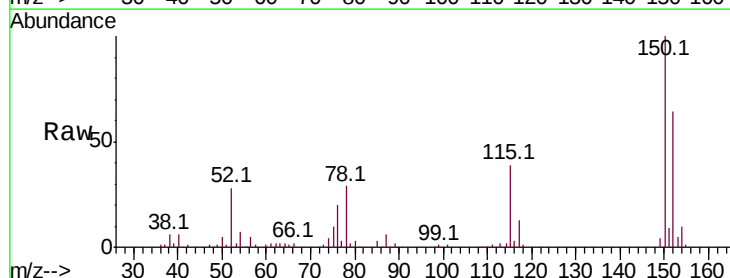
Tgt Ion:152 Resp: 58941

Ion Ratio Lower Upper

152 100

115 61.5 42.7 128.1

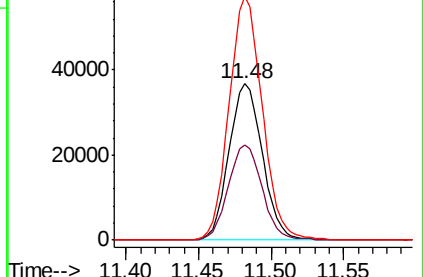
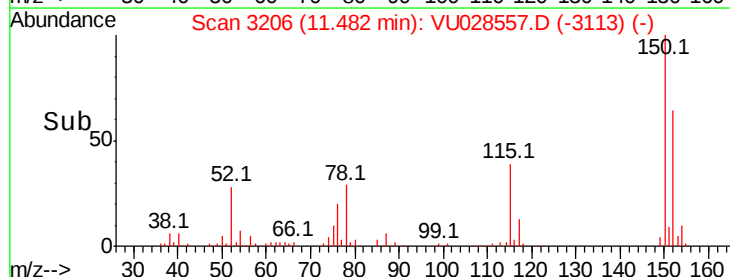
150 154.8 0.0 346.0

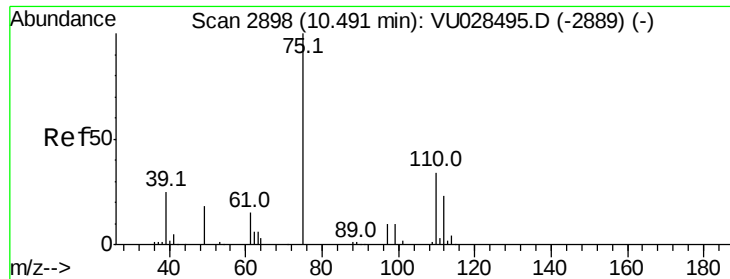


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.712 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

Instrument :

MSVOA_U

ClientSampleId :

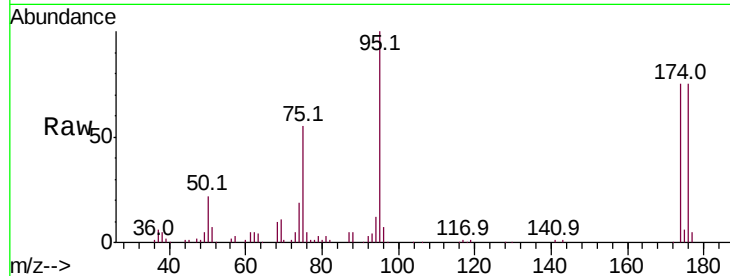
RE-126D3-20181207

Tot Ion: 75 Resp: 37194

Ion Ratio Lower Upper

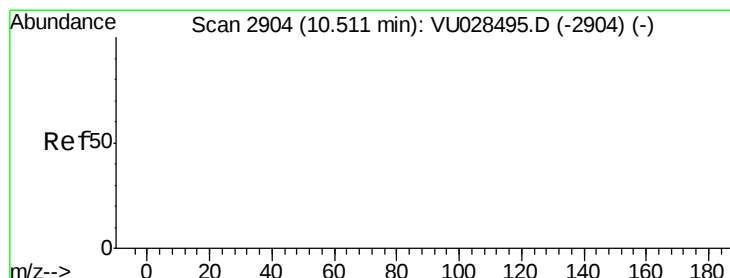
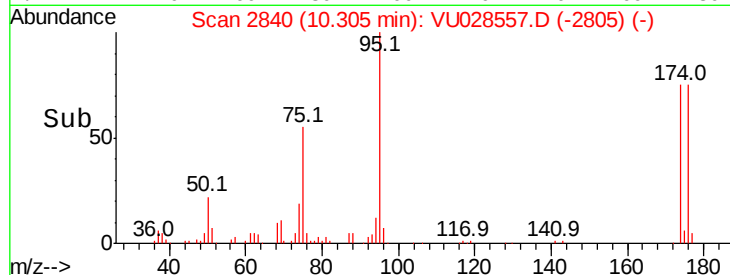
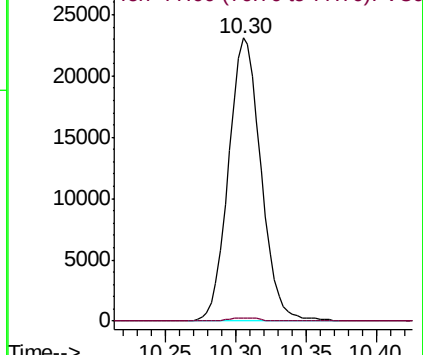
75 100

77 1.1 20.8 62.4#



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: 60.647 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028557.D

Acq: 10 Dec 2018 17:35

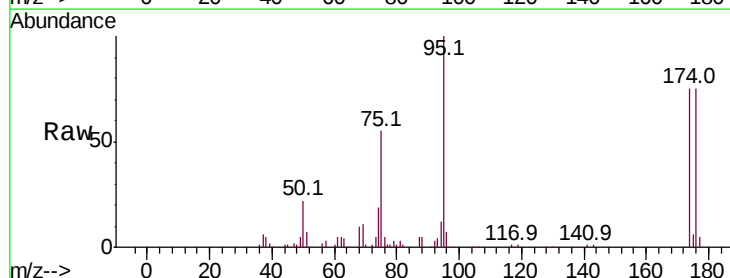
Tgt Ion: 75 Resp: 37194

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): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

