

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121918\
 Data File : VU028788.D
 Acq On : 19 Dec 2018 12:55
 Operator : MD/SY
 Sample : J6405-02DL 5X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TT101D1-20181212DL

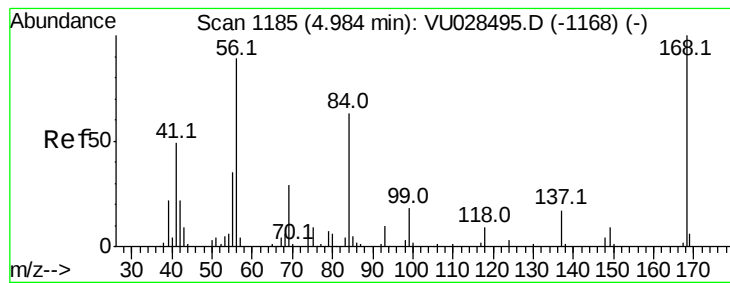
Quant Time: Dec 20 03:19:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	125503	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	213170	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	194713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	77435	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	82429	43.04	ug/l	0.00
Spiked Amount			Recovery	=	86.08%	
35) Dibromofluoromethane	4.88	113	69699	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	
50) Toluene-d8	7.56	98	270222	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	10.30	95	85430	43.07	ug/l	0.00
Spiked Amount			Recovery	=	86.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1853	0.599	ug/l	90
4) Vinyl Chloride	1.29	62	2237	1.002	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	2.29	101	3571	2.543	ug/l	97
11) Tert butyl alcohol	2.84	59	918	2.151	ug/l #	73
12) 1,1-Dichloroethene	2.28	96	1409	1.008	ug/l #	73
16) Acetone	2.33	43	385	0.308	ug/l #	44
18) Methyl Acetate	2.62	43	849	0.262	ug/l #	56
27) cis-1,2-Dichloroethene	4.22	96	383	0.215	ug/l	77
31) Cyclohexane	4.98	56	2124	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	9682	4.151	ug/l #	50
38) Carbon Tetrachloride	5.13	117	475	0.253	ug/l #	68
39) Methylcyclohexane	6.19	83	683	0.240	ug/l #	1
44) Trichloroethene	6.19	130	59274	38.802	ug/l	93
51) 4-Methyl-2-Pentanone	7.56	43	947	0.315	ug/l #	1
76) 1,2,3-Trichloropropane	10.30	75	41314	20.894	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.30	75	41314	51.357	ug/l #	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

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ClientSampleId :

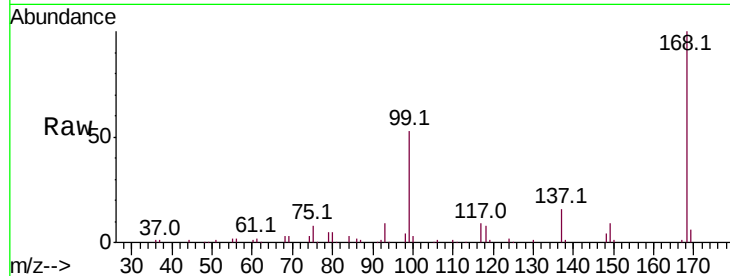
TT101D1-20181212DL

Tot Ion:168 Resp: 125503

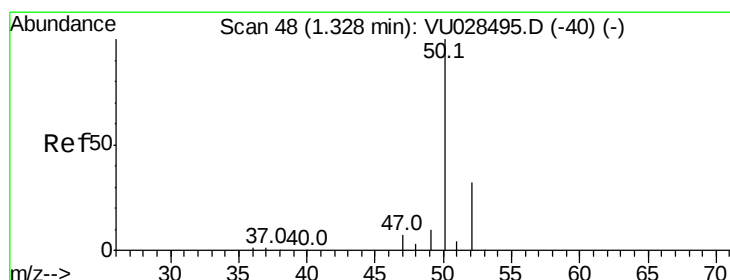
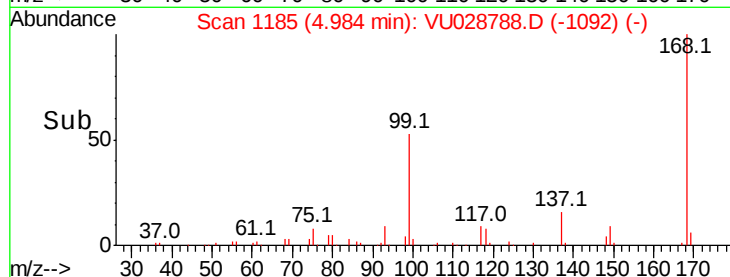
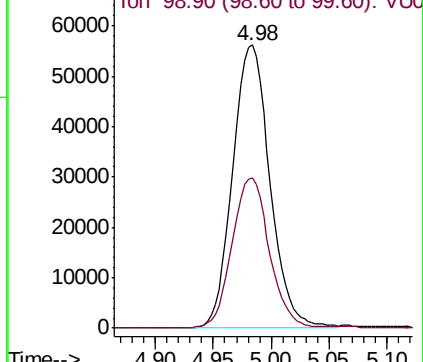
Ion Ratio Lower Upper

168 100

99 52.9 46.6 69.8



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



#3

Chloromethane

Concen: 0.599 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028788.D

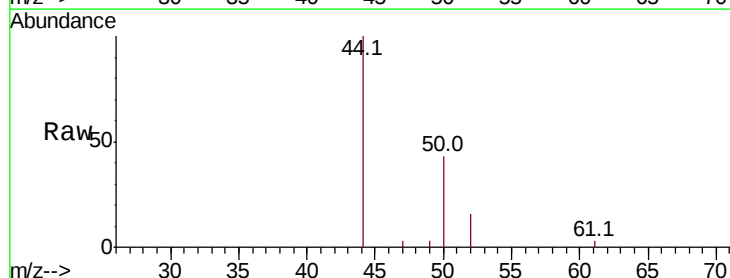
Acq: 19 Dec 2018 12:55

Tgt Ion: 50 Resp: 1853

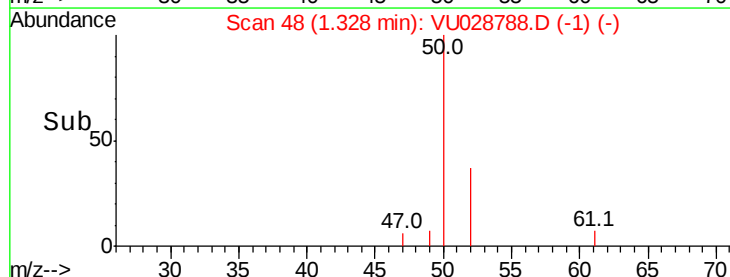
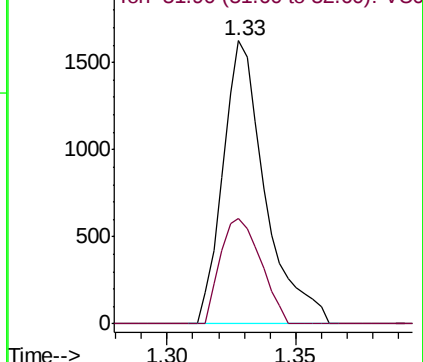
Ion Ratio Lower Upper

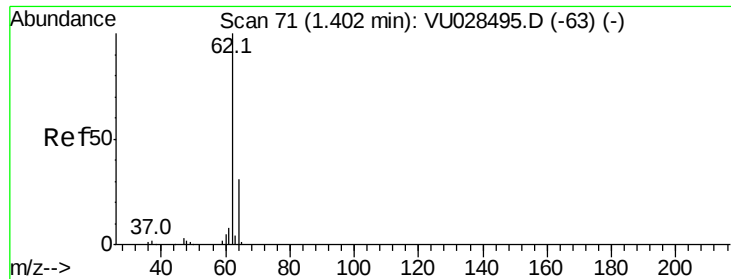
50 100

52 37.2 25.5 38.3



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





#4

Vinyl Chloride

Concen: 1.002 ug/l

RT: 1.29 min Scan# 35

Delta R.T. -0.12 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

Instrument :

MSVOA_U

ClientSampleId :

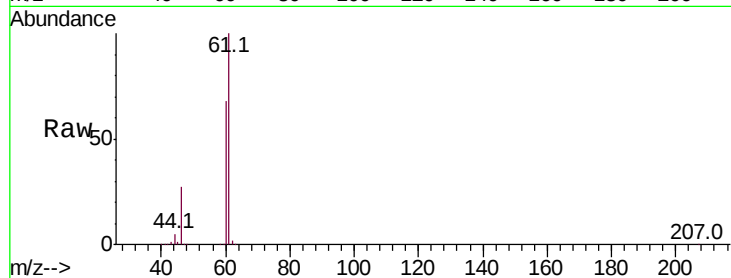
TT101D1-20181212DL

Tot Ion: 62 Resp: 2237

Ion Ratio Lower Upper

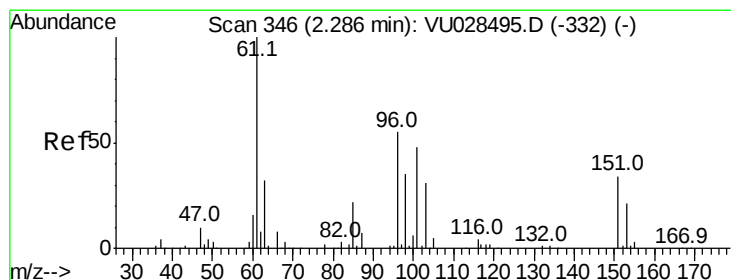
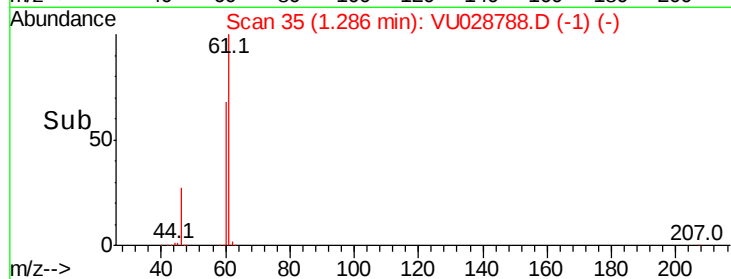
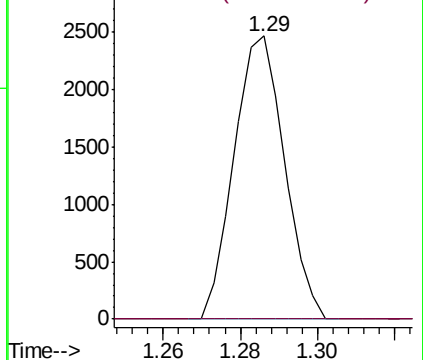
62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.543 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

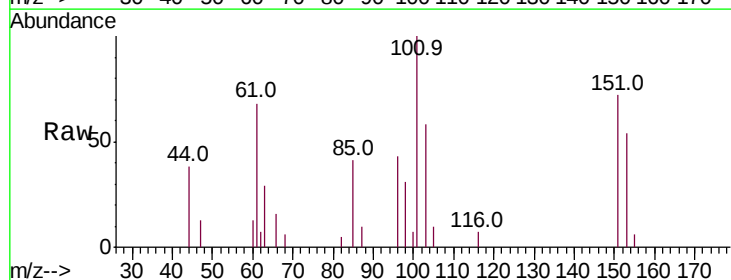
Tgt Ion: 101 Resp: 3571

Ion Ratio Lower Upper

101 100

85 40.0 36.4 54.6

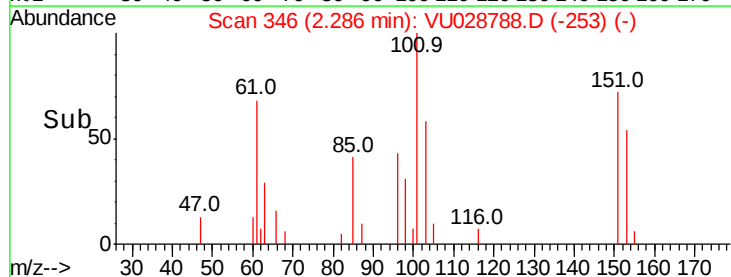
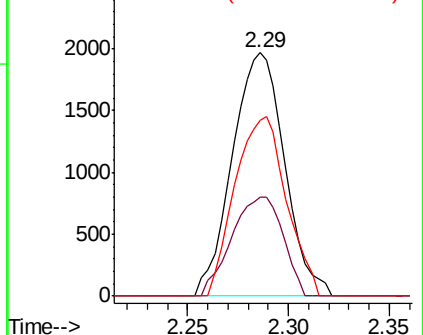
151 72.6 58.2 87.2

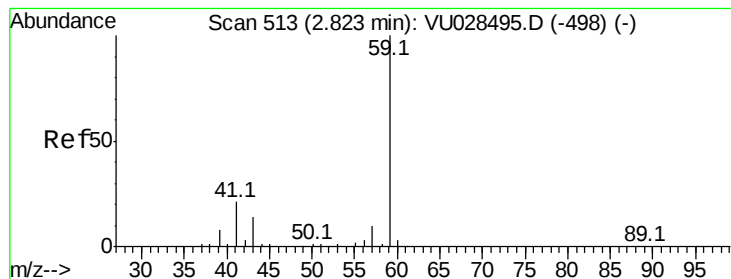


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VU0

Ion 150.80 (150.50 to 151.50): V



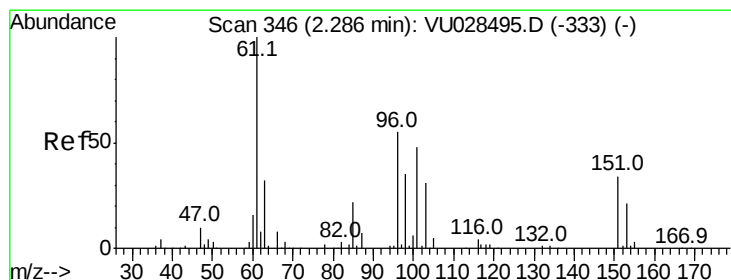
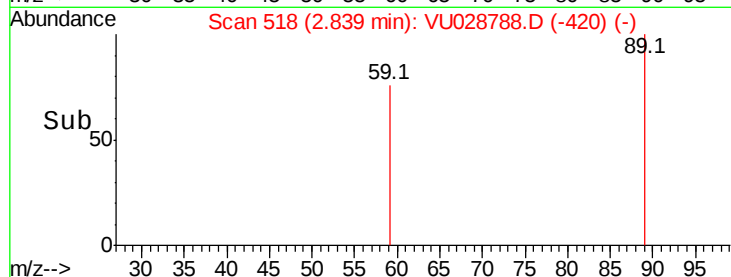
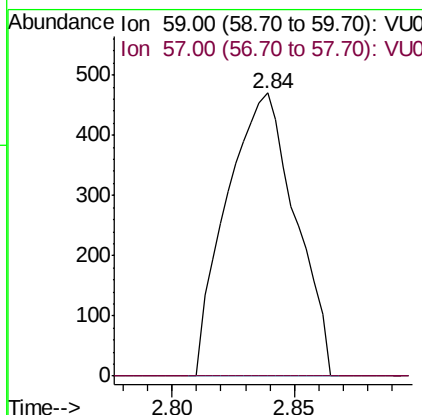
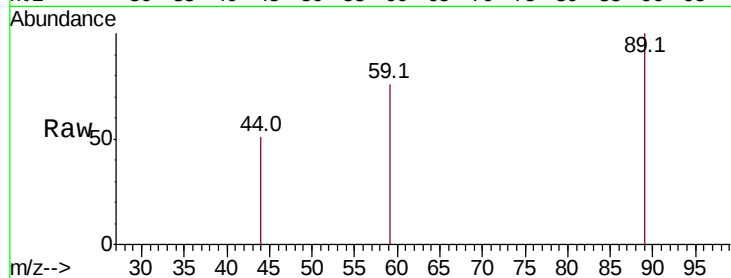


#11

Tert butyl alcohol
 Concen: 2.151 ug/l
 RT: 2.84 min Scan# 518
 Delta R.T. 0.02 min
 Lab File: VU028788.D
 Acq: 19 Dec 2018 12:55

Instrument :
 MSVOA_U
 ClientSampleId :
 TT101D1-20181212DL

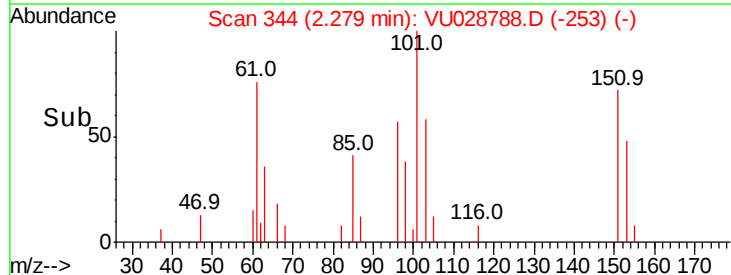
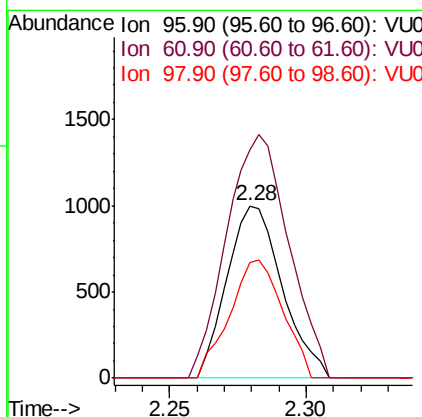
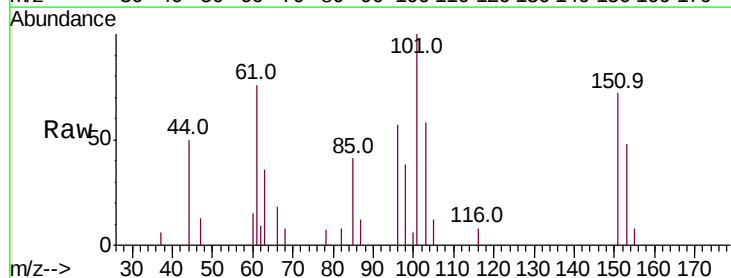
Tot Ion: 59 Resp: 918
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

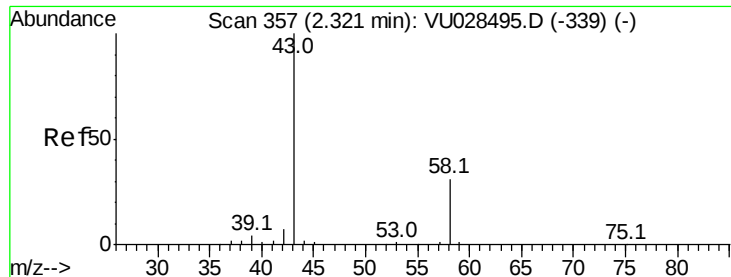


#12

1,1-Dichloroethene
 Concen: 1.008 ug/l
 RT: 2.28 min Scan# 344
 Delta R.T. -0.01 min
 Lab File: VU028788.D
 Acq: 19 Dec 2018 12:55

Tgt Ion: 96 Resp: 1409
 Ion Ratio Lower Upper
 96 100
 61 132.5 146.4 219.6#
 98 66.8 51.8 77.8





#16

Acetone

Concen: 0.308 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.01 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

Instrument :

MSVOA_U

ClientSampleId :

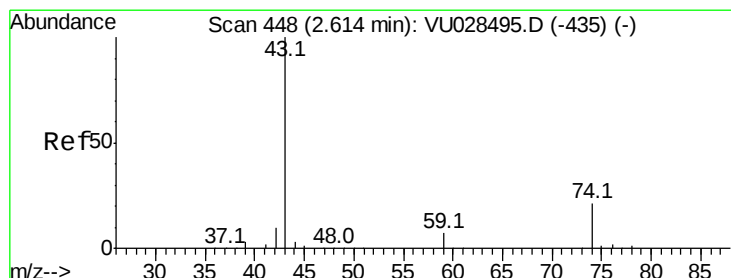
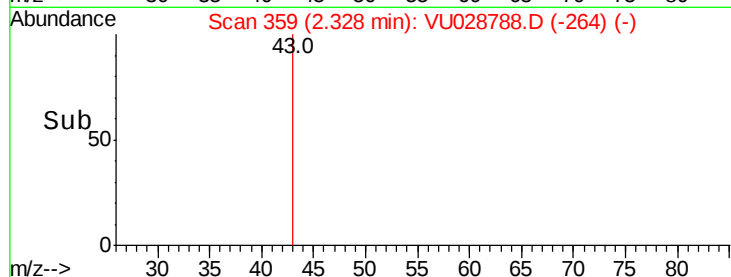
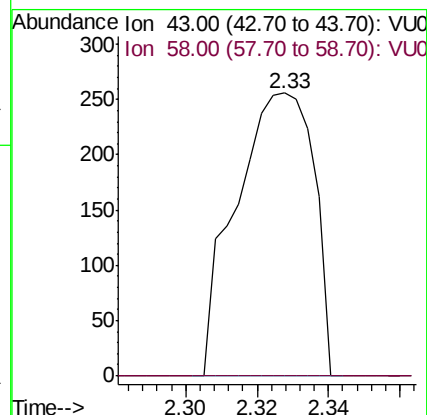
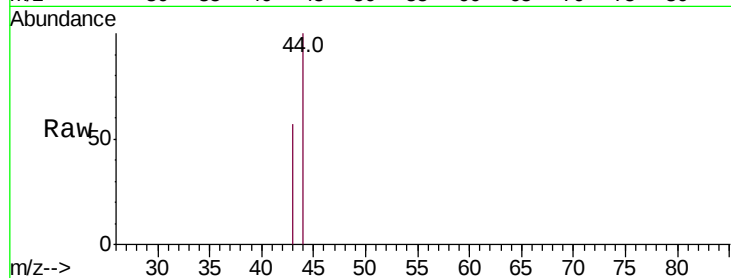
TT101D1-20181212DL

Tot Ion: 43 Resp: 385

Ion Ratio Lower Upper

43 100

58 0.0 24.6 37.0#



#18

Methyl Acetate

Concen: 0.262 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028788.D

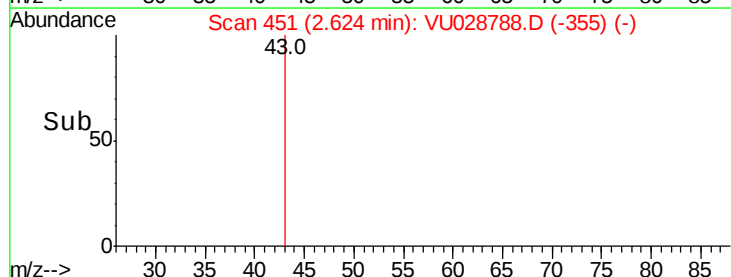
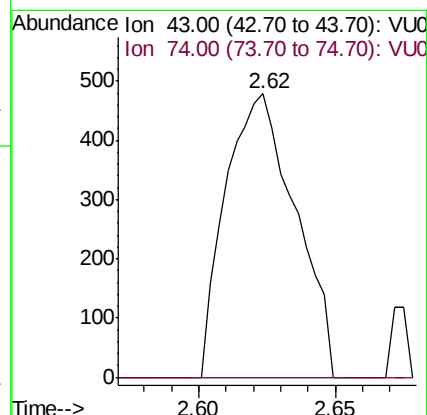
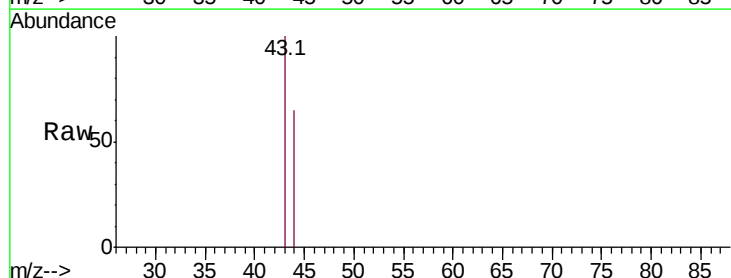
Acq: 19 Dec 2018 12:55

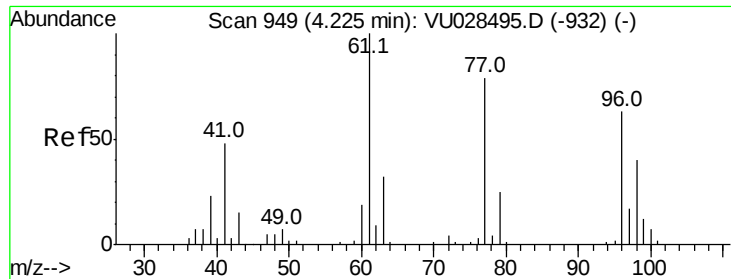
Tgt Ion: 43 Resp: 849

Ion Ratio Lower Upper

43 100

74 0.0 16.4 24.6#



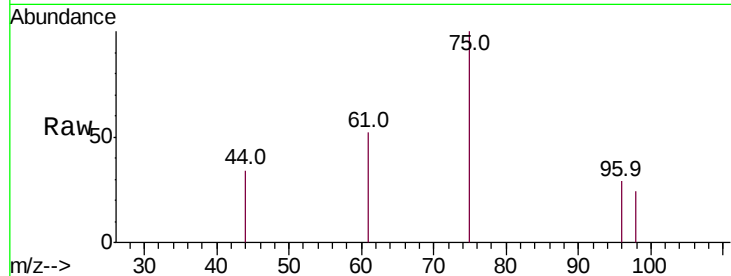


#27

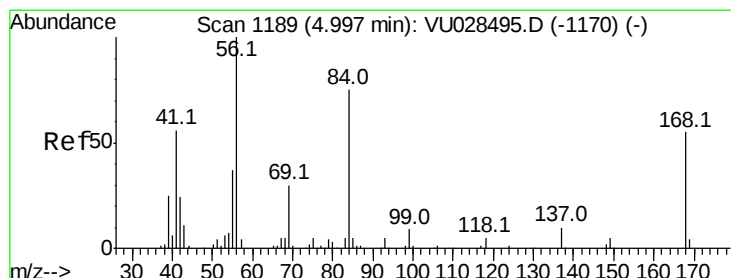
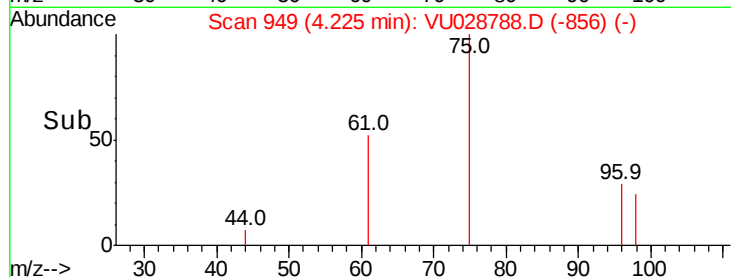
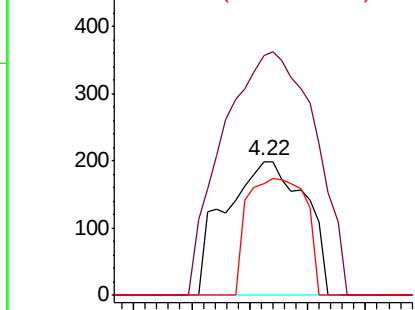
cis-1,2-Dichloroethene
 Concen: 0.215 ug/l
 RT: 4.22 min Scan# 949
 Delta R.T. -0.00 min
 Lab File: VU028788.D
 Acq: 19 Dec 2018 12:55

Instrument :
 MSVOA_U
 ClientSampleId :
 TT101D1-20181212DL

Tot Ion: 96 Resp: 383
 Ion Ratio Lower Upper
 96 100
 61 208.6 0.0 332.4
 98 64.0 0.0 129.0



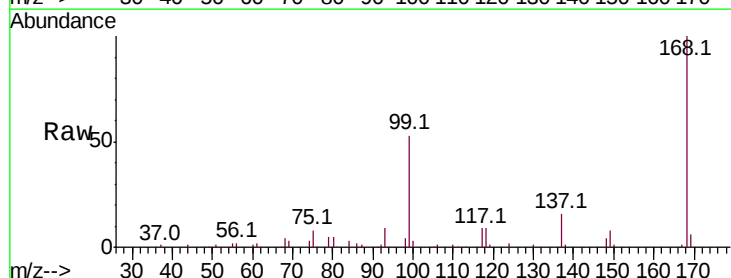
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



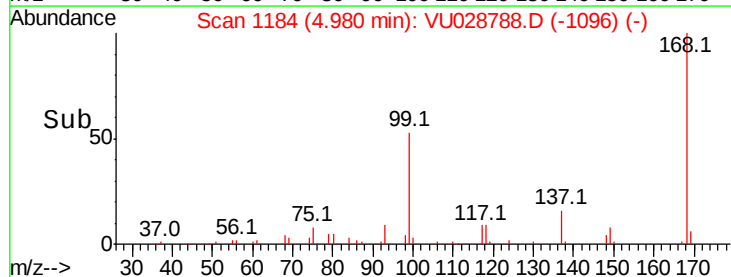
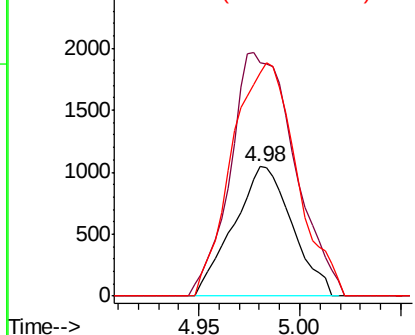
#31

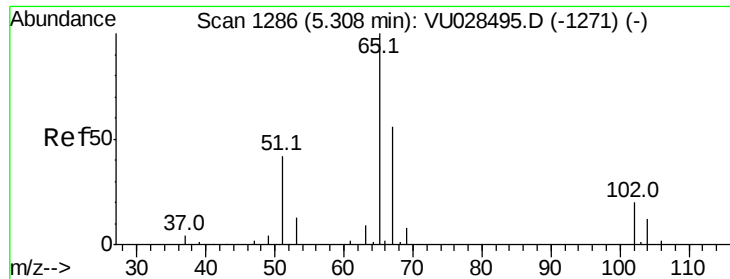
Cyclohexane
 Concen: Below Cal
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: VU028788.D
 Acq: 19 Dec 2018 12:55

Tgt Ion: 56 Resp: 2124
 Ion Ratio Lower Upper
 56 100
 69 180.4 24.0 36.0#
 84 171.7 59.7 89.5#



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: 43.038 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

Instrument :

MSVOA_U

ClientSampleId :

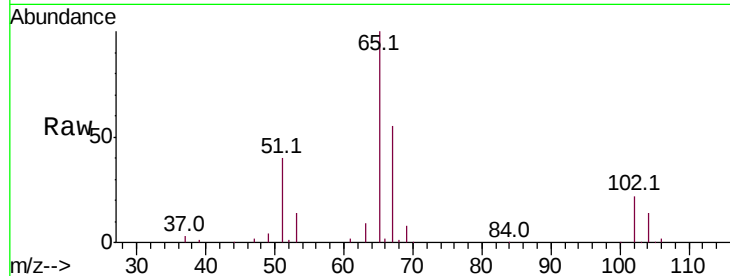
TT101D1-20181212DL

Tot Ion: 65 Resp: 82429

Ion Ratio Lower Upper

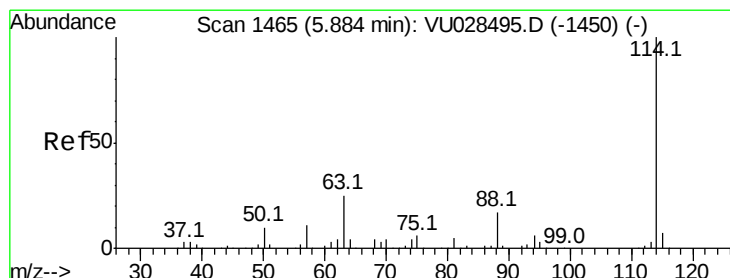
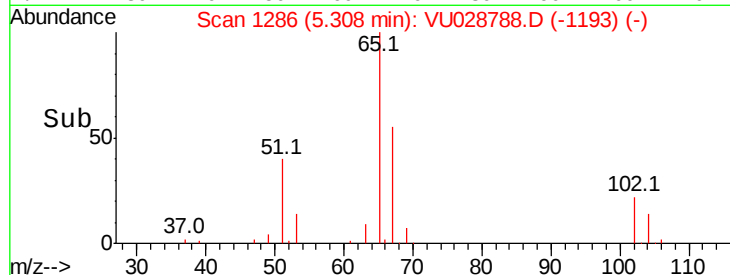
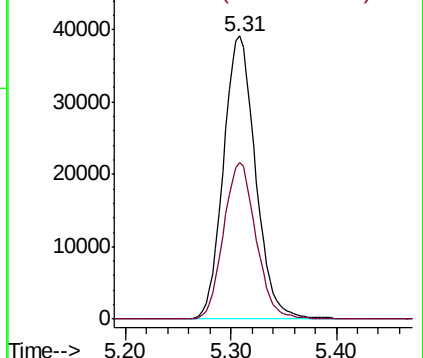
65 100

67 55.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. -0.00 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

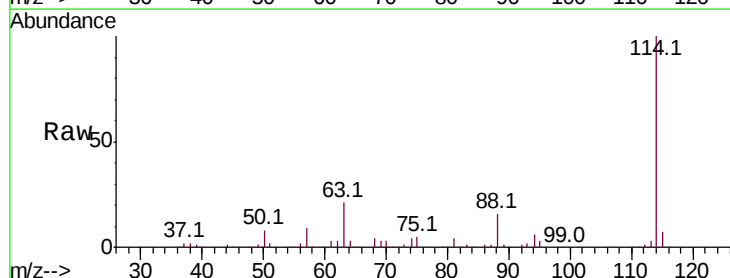
Tgt Ion:114 Resp: 213170

Ion Ratio Lower Upper

114 100

63 21.2 0.0 49.2

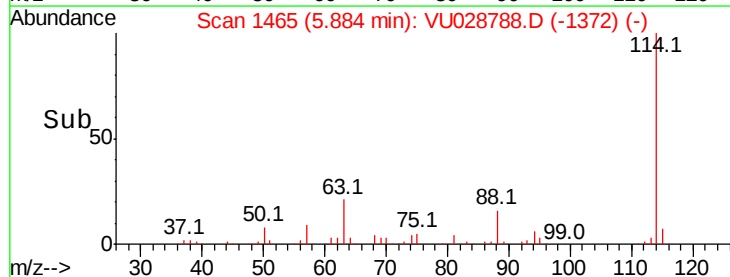
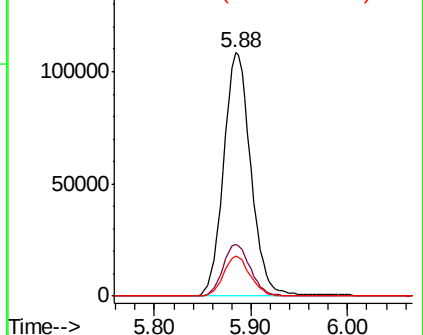
88 16.4 0.0 33.4

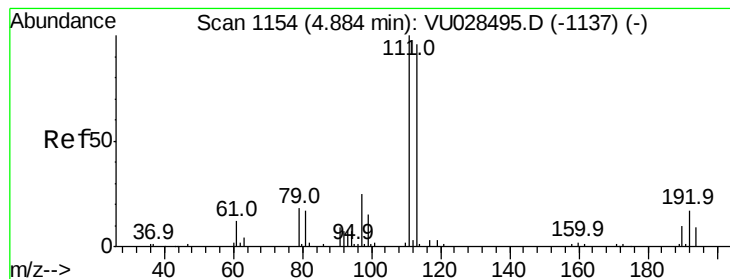


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0





#35

Dibromofluoromethane

Concen: 51.956 ug/l

RT: 4.88 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

Instrument :

MSVOA_U

ClientSampleId :

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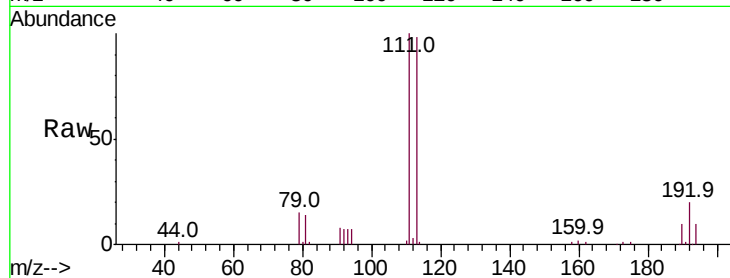
Tot Ion:113 Resp: 69699

Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.0

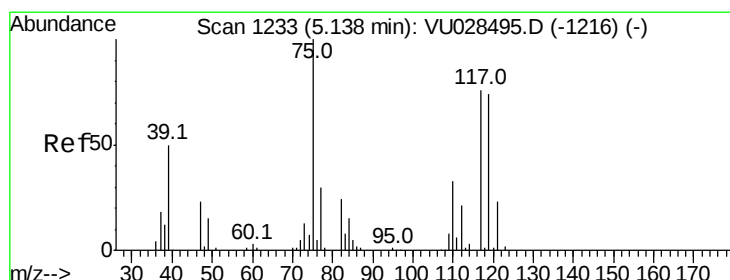
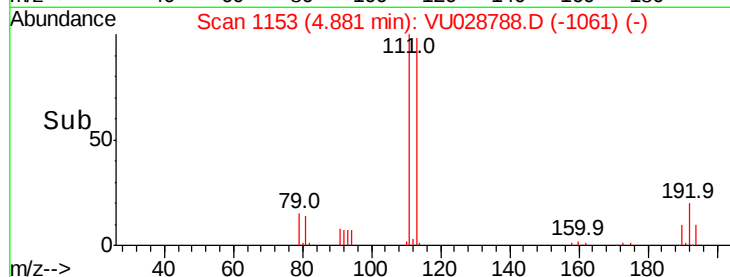
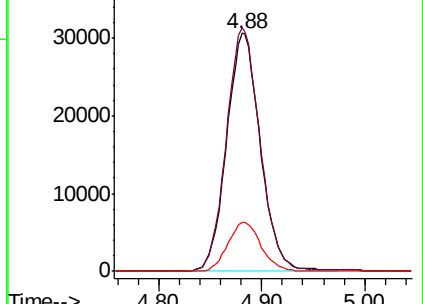
192 20.1 14.8 22.2



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: 4.151 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

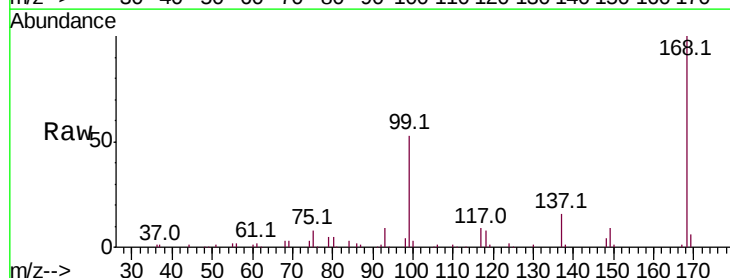
Tgt Ion: 75 Resp: 9682

Ion Ratio Lower Upper

75 100

110 7.7 16.1 48.2#

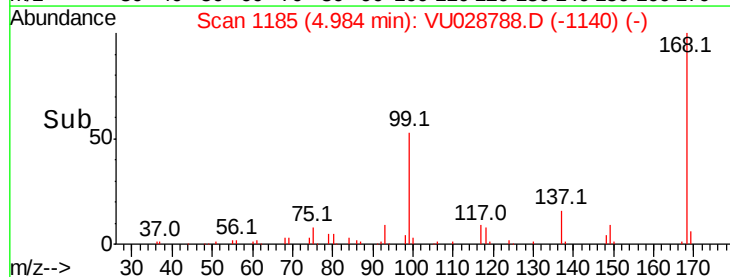
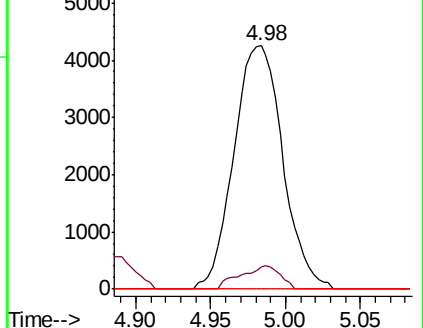
77 0.0 24.5 36.7#

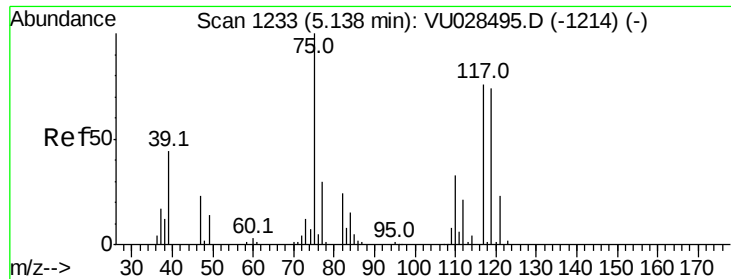


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 0.253 ug/l

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

Instrument :

MSVOA_U

ClientSampleId :

TT101D1-20181212DL

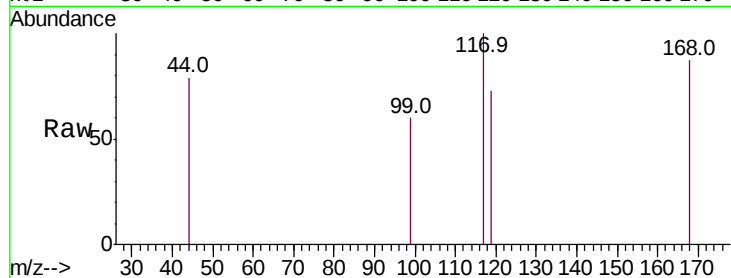
Tot Ion:117 Resp: 475

Ion Ratio Lower Upper

117 100

119 72.6 77.6 116.4#

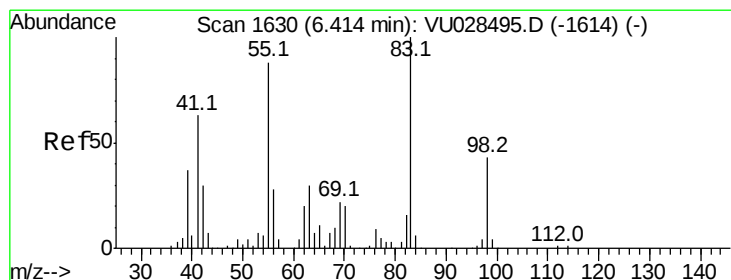
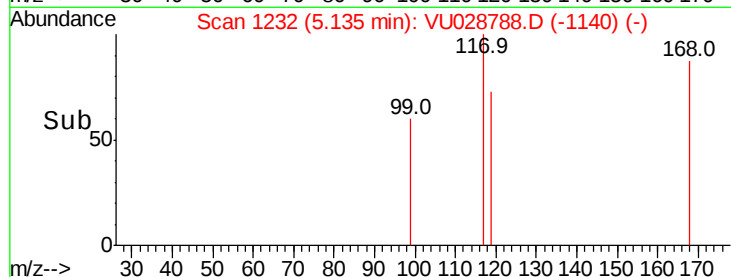
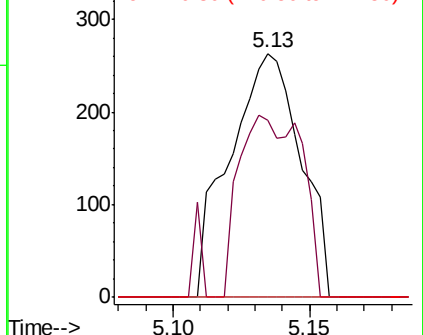
121 0.0 24.6 36.8#



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



#39

Methylcyclohexane

Concen: 0.240 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.23 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

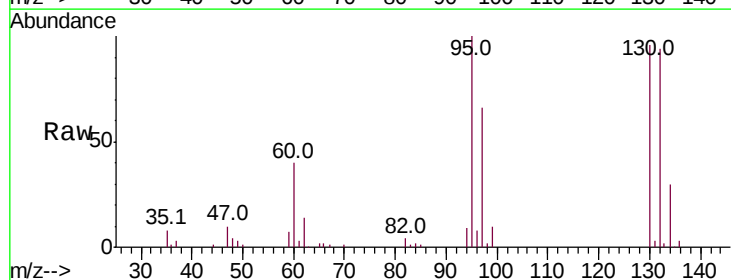
Tgt Ion: 83 Resp: 683

Ion Ratio Lower Upper

83 100

55 0.0 70.2 105.2#

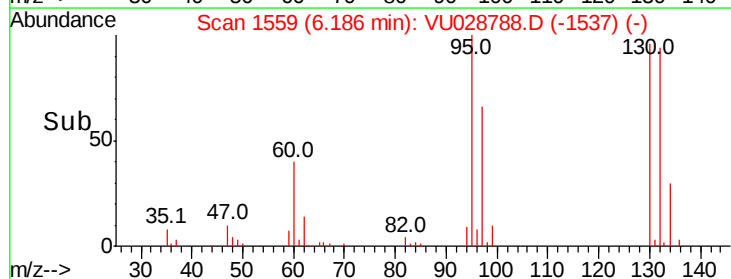
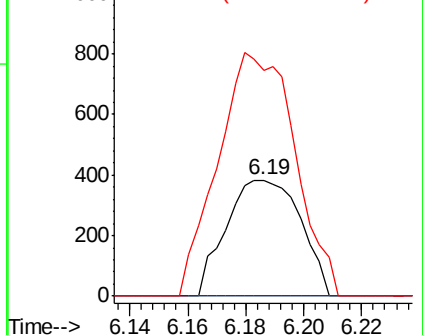
98 194.5 34.2 51.4#

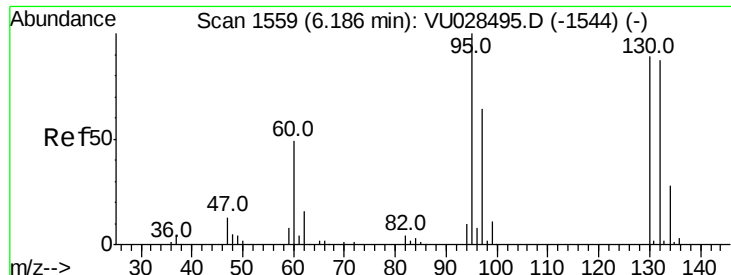


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#44

Trichloroethene

Concen: 38.802 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. -0.00 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

Instrument :

MSVOA_U

ClientSampleId :

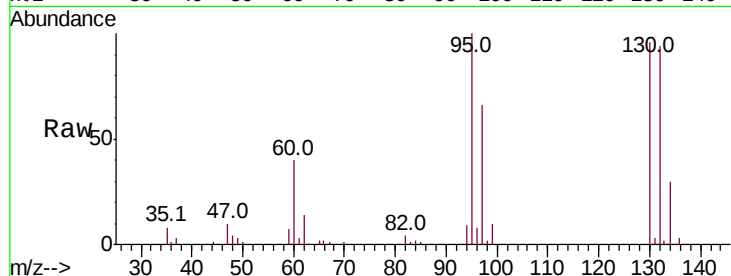
TT101D1-20181212DL

Tot Ion:130 Resp: 59274

Ion Ratio Lower Upper

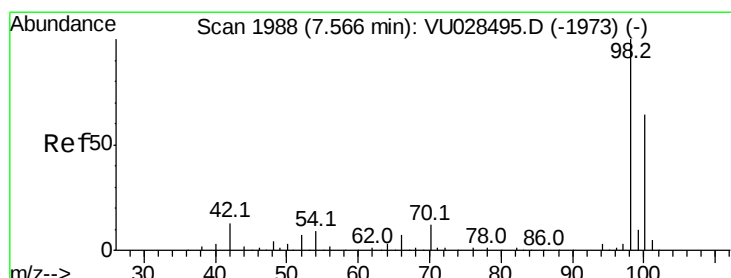
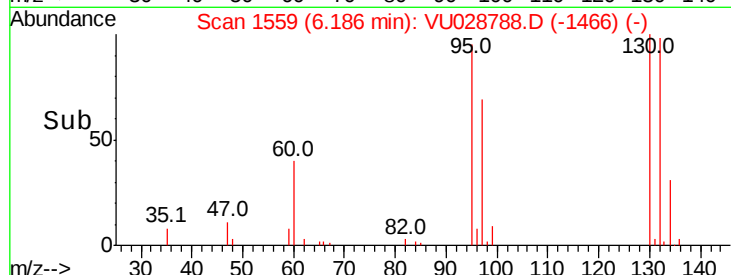
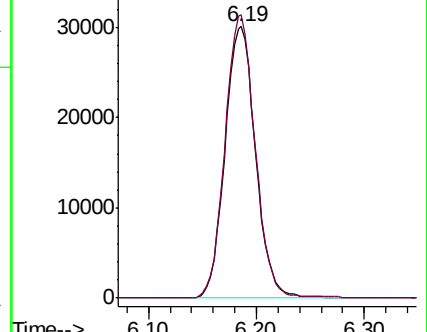
130 100

95 104.3 0.0 224.0



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

Ion 94.90 (94.60 to 95.60): VU028495.D (-1544) (-)



#50

Toluene-d8

Concen: 50.921 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028788.D

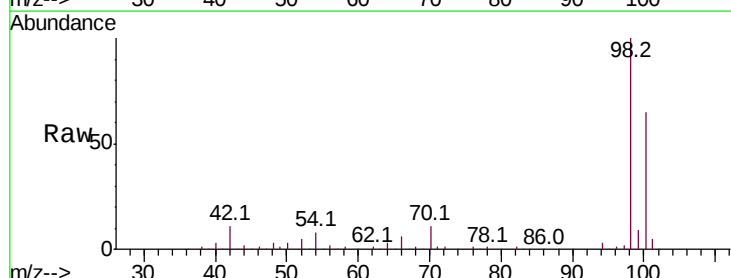
Acq: 19 Dec 2018 12:55

Tgt Ion: 98 Resp: 270222

Ion Ratio Lower Upper

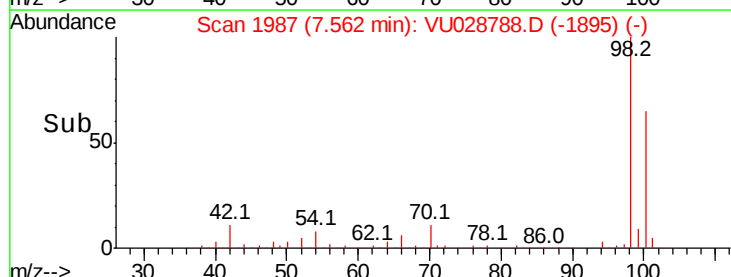
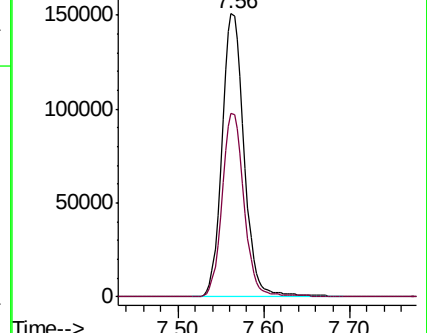
98 100

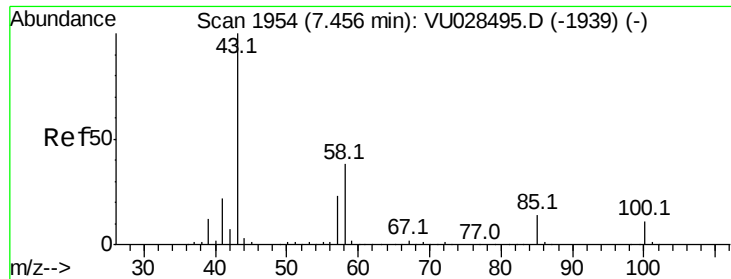
100 64.1 51.0 76.6



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

Ion 100.00 (99.70 to 100.70): VU028495.D (-1973) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.315 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.11 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

Instrument :

MSVOA_U

ClientSampleId :

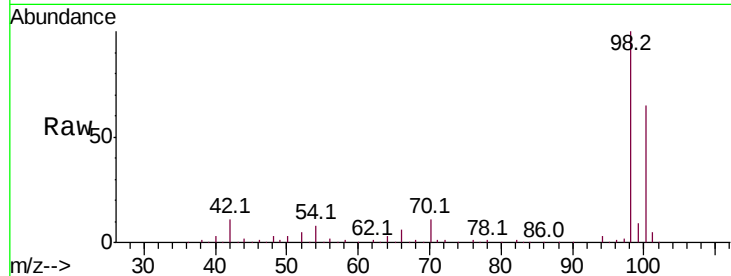
TT101D1-20181212DL

Tot Ion: 43 Resp: 947

Ion Ratio Lower Upper

43 100

58 222.3 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1500

1000

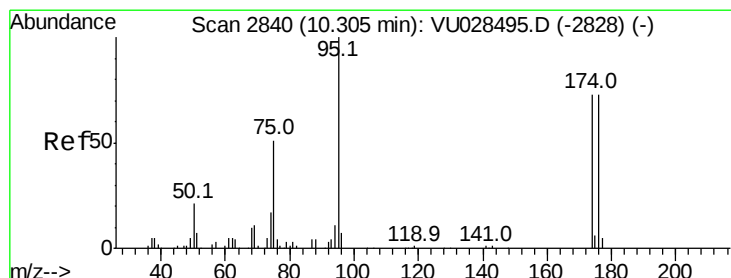
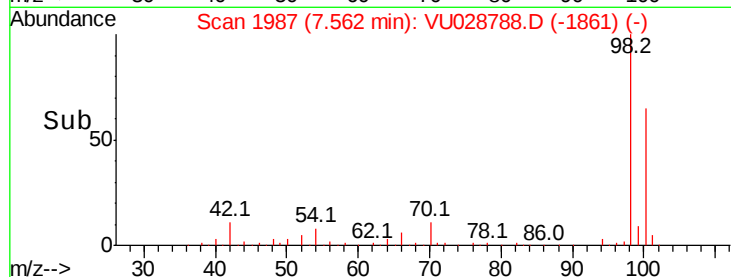
500

0

7.55

7.60

Time-->



#62

4-Bromofluorobenzene

Concen: 43.071 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028788.D

Acq: 19 Dec 2018 12:55

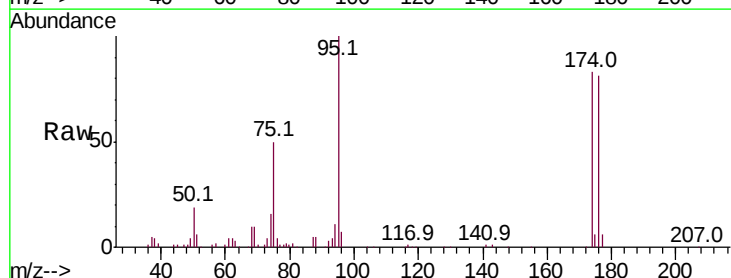
Tgt Ion: 95 Resp: 85430

Ion Ratio Lower Upper

95 100

174 82.7 0.0 150.4

176 80.5 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

60000

40000

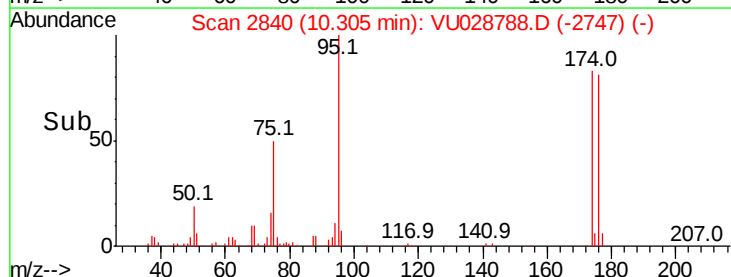
20000

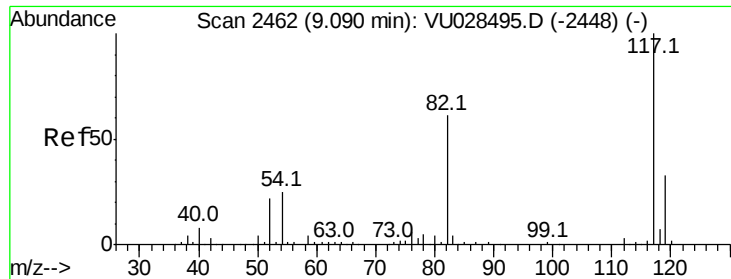
0

10.30

10.40

Time-->

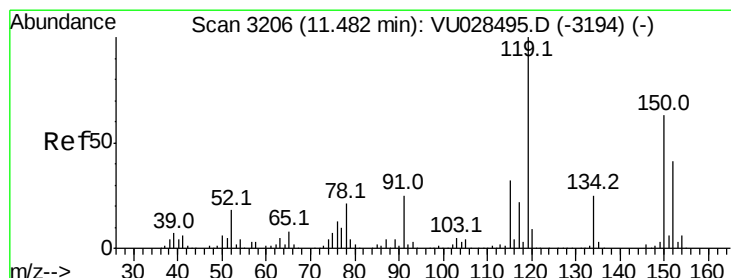
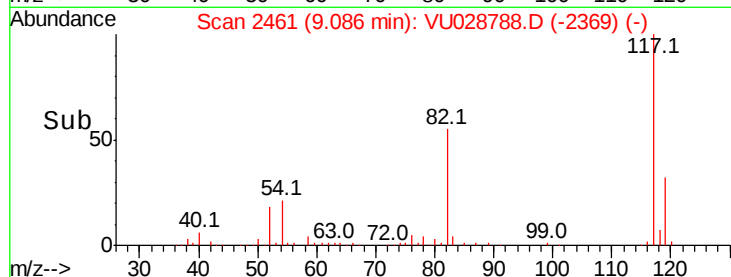
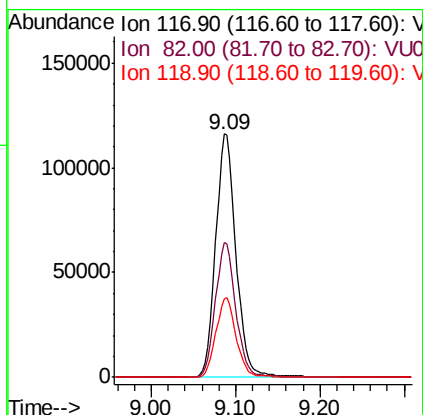
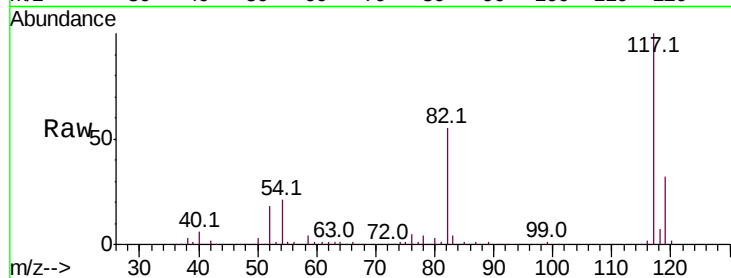




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. -0.00 min
Lab File: VU028788.D
Acq: 19 Dec 2018 12:55

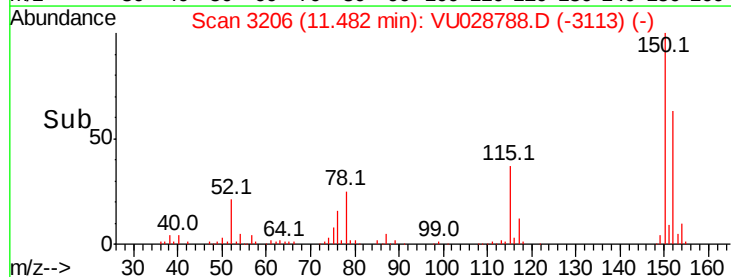
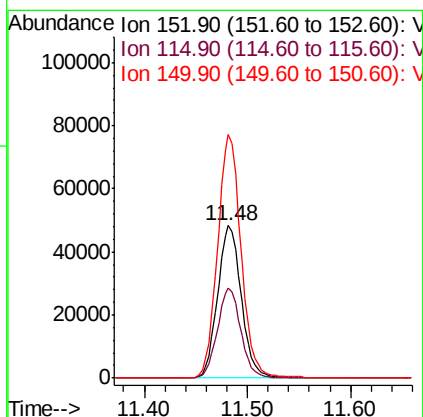
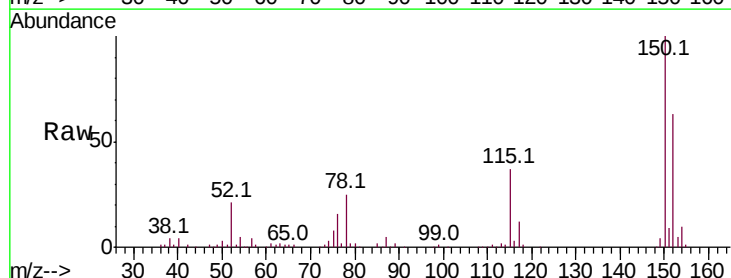
Instrument :
MSVOA_U
ClientSampleId :
TT101D1-20181212DL

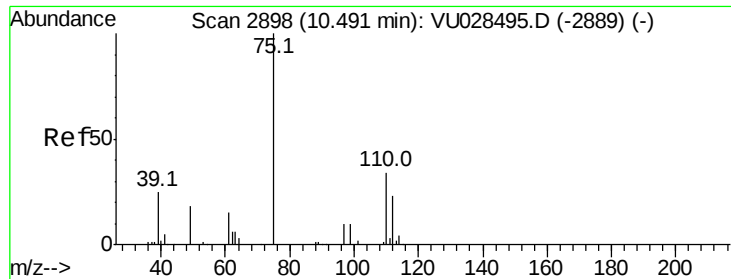
Tot Ion:117 Resp: 194713
Ion Ratio Lower Upper
117 100
82 55.5 48.9 73.3
119 32.5 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028788.D
Acq: 19 Dec 2018 12:55

Tgt Ion:152 Resp: 77435
Ion Ratio Lower Upper
152 100
115 57.9 42.7 128.1
150 157.6 0.0 346.0

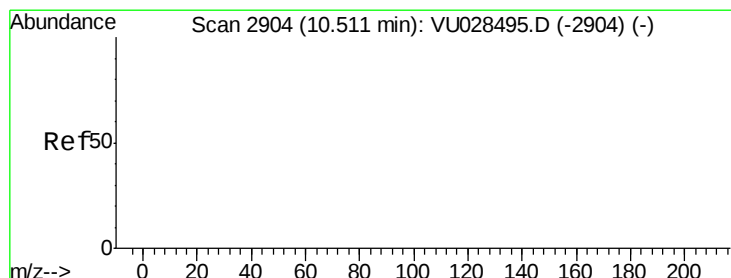
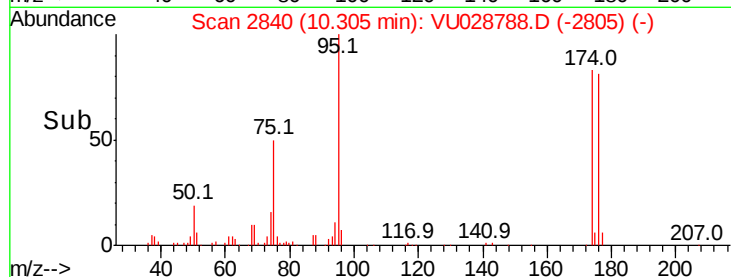
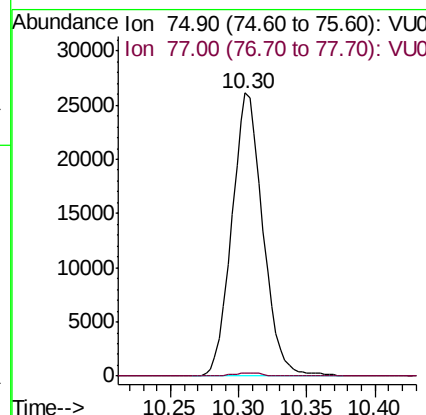
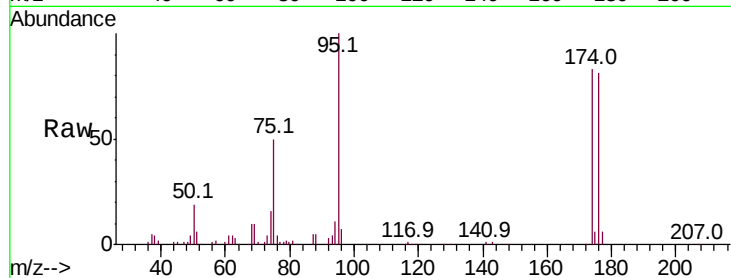




#76
 1,2,3-Trichloropropane
 Concen: 20.894 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU028788.D
 Acq: 19 Dec 2018 12:55

Instrument :
 MSVOA_U
 ClientSampleId :
 TT101D1-20181212DL

Tot Ion: 75 Resp: 41314
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.8 62.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 51.357 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.21 min
 Lab File: VU028788.D
 Acq: 19 Dec 2018 12:55

Tgt Ion: 75 Resp: 41314
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

