

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU120518\
 Data File : VU028487.D
 Acq On : 05 Dec 2018 17:53
 Operator : MD/SY
 Sample : J6208-14RE
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 TP-4RE

Quant Time: Dec 06 01:36:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U112818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 29 01:04:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	344842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	633681	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	595246	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	284724	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	273042	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	
35) Dibromofluoromethane	4.88	113	86986	20.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.28%	
50) Toluene-d8	7.57	98	823473	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
62) 4-Bromofluorobenzene	10.30	95	298681	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	

Target Compounds

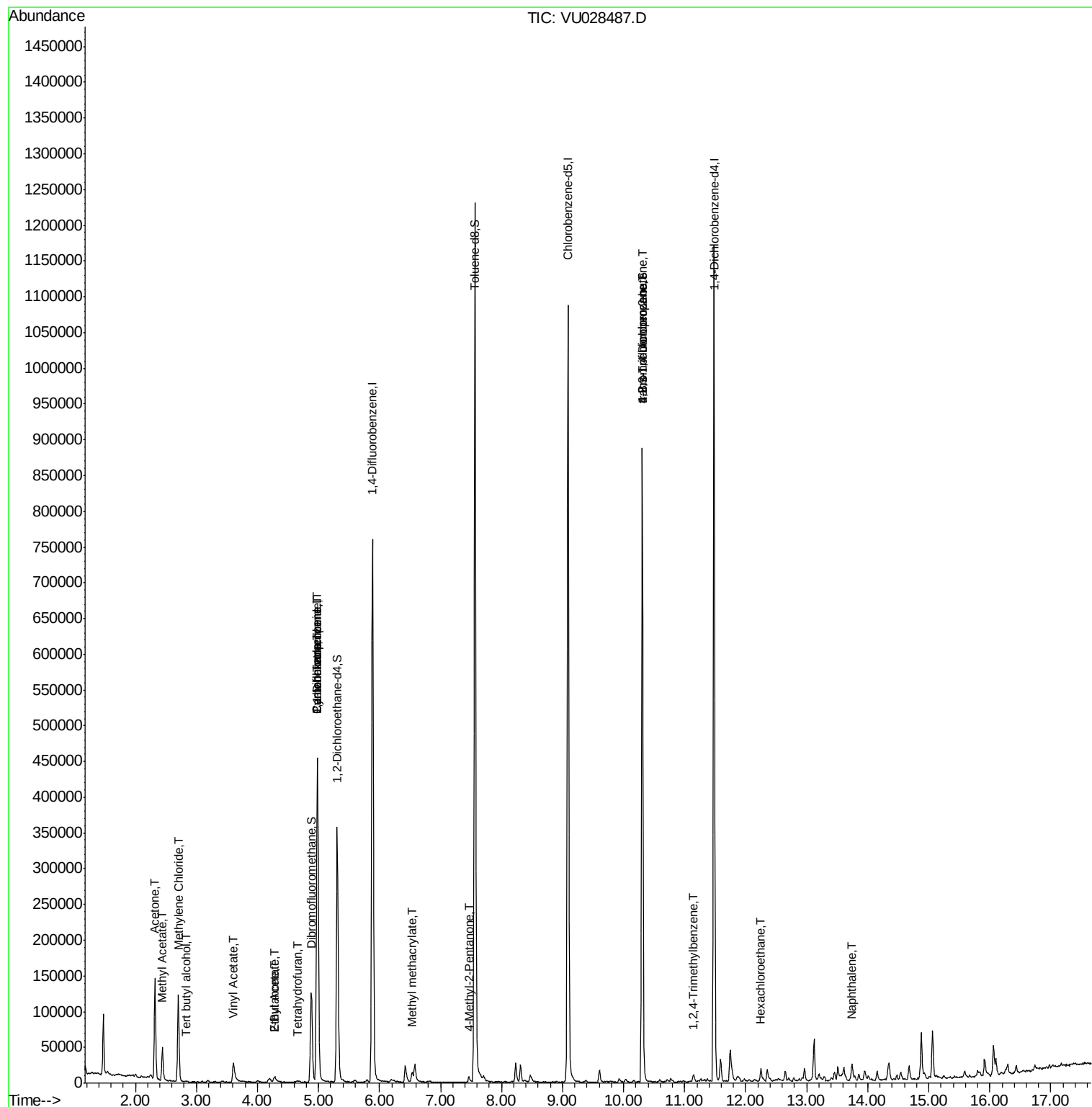
						Qvalue
11) Tert butyl alcohol	2.82	59	450	0.344	ug/l #	72
16) Acetone	2.32	43	149666	42.453	ug/l	99
18) Methyl Acetate	2.44	43	10374	1.057	ug/l #	58
20) Methylene Chloride	2.70	84	51044	10.206	ug/l	90
23) Vinyl Acetate	3.60	43	3600	0.229	ug/l #	77
25) 2-Butanone	4.28	43	14649	2.899	ug/l #	88
29) Tetrahydrofuran	4.67	42	1744	0.532	ug/l #	67
31) Cyclohexane	4.98	56	7418	0.391	ug/l #	1
36) 1,1-Dichloropropene	4.98	75	29753	4.291	ug/l #	49
37) Ethyl Acetate	4.28	43	14649	1.550	ug/l #	71
38) Carbon Tetrachloride	4.98	117	33220	5.834	ug/l #	16
48) Methyl methacrylate	6.53	41	18311	2.347	ug/l #	27
51) 4-Methyl-2-Pentanone	7.46	43	6174	0.646	ug/l	97
76) 1,2,3-Trichloropropane	10.30	75	152613	19.329	ug/l #	33
81) trans-1,4-Dichloro-2-buten	10.30	75	152613	51.308	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	4243	0.224	ug/l #	64
90) Hexachloroethane	12.25	117	1074	0.370	ug/l #	12
95) Naphthalene	13.74	128	20311	3.635	ug/l	99

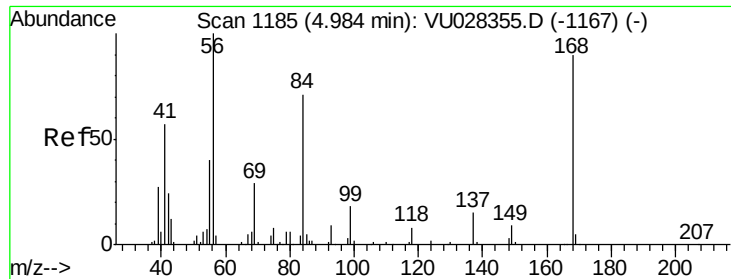
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU028487.D

Acq: 05 Dec 2018 17:53

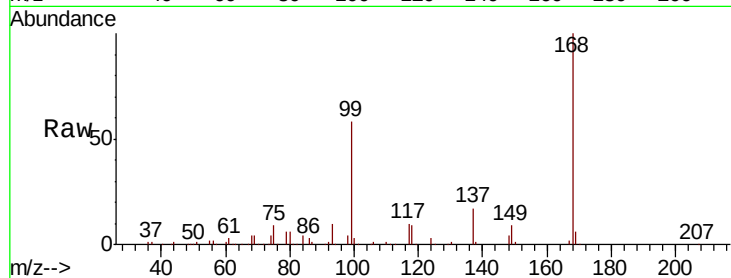
Instrument :
MSVOA_U
ClientSampled :
TP-4RE

Tot Ion:168 Resp: 344842

Ion Ratio Lower Upper

168 100

99 57.6 49.6 74.4



Abundance Ion 167.90 (167.60 to 168.60): VU028355.D

Ion 98.90 (98.60 to 99.60): VU028355.D

4.98

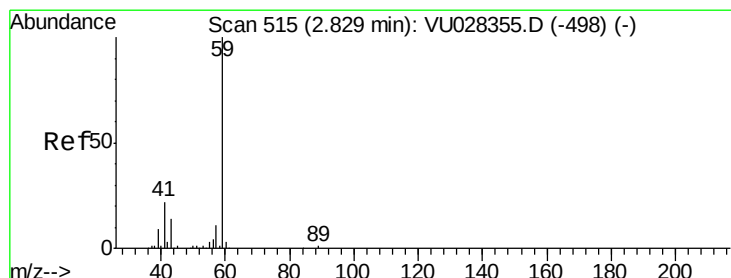
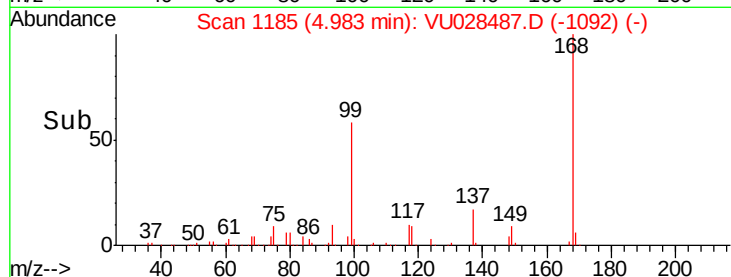
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.344 ug/l

RT: 2.82 min Scan# 511

Delta R.T. -0.01 min

Lab File: VU028487.D

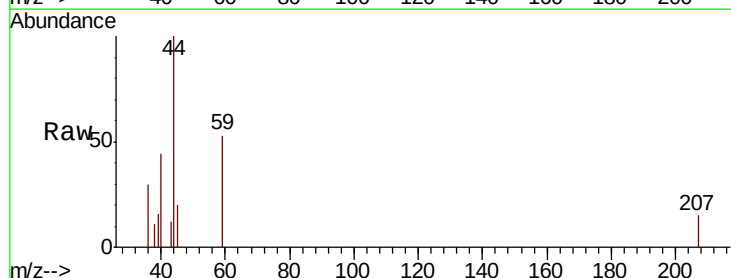
Acq: 05 Dec 2018 17:53

Tgt Ion: 59 Resp: 450

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VU028355.D

Ion 57.00 (56.70 to 57.70): VU028355.D

2.82

600

500

400

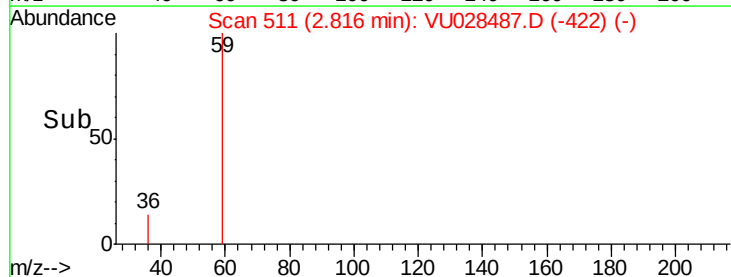
300

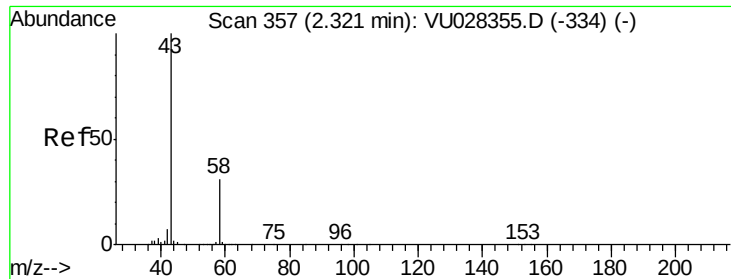
200

100

0

Time-->





#16

Acetone

Concen: 42.453 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

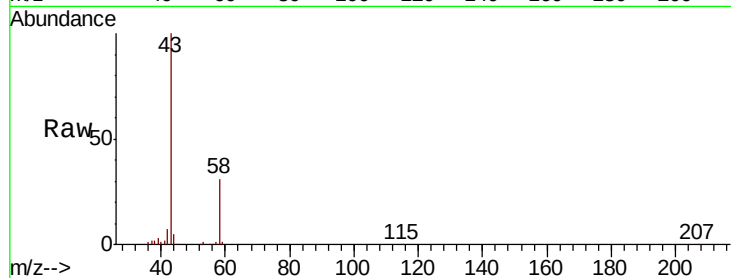
TP-4RE

Tot Ion: 43 Resp: 149666

Ion Ratio Lower Upper

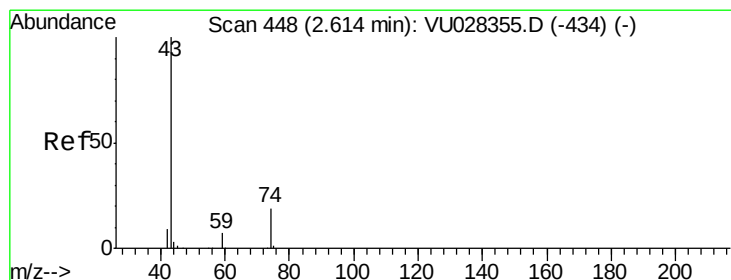
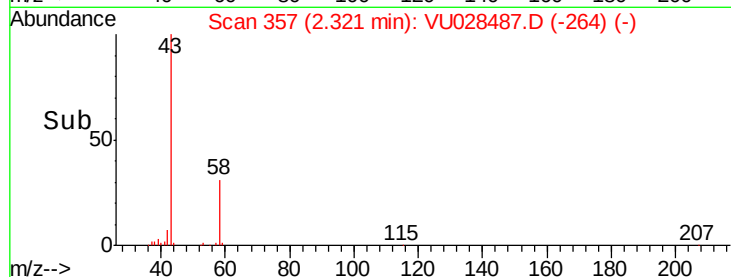
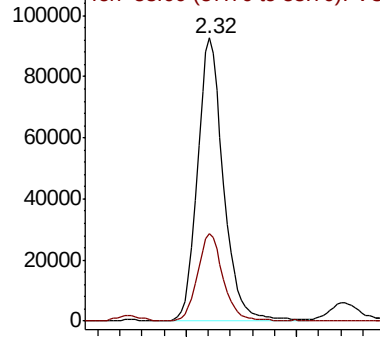
43 100

58 31.1 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: 1.057 ug/l

RT: 2.44 min Scan# 395

Delta R.T. -0.17 min

Lab File: VU028487.D

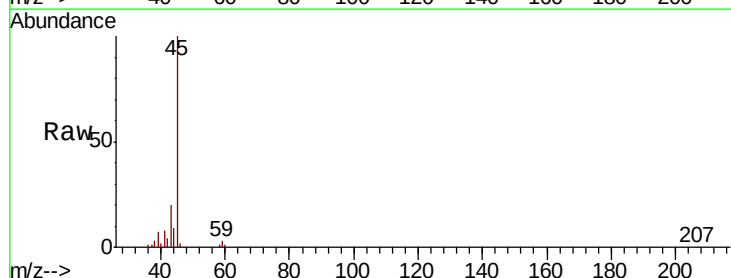
Acq: 05 Dec 2018 17:53

Tgt Ion: 43 Resp: 10374

Ion Ratio Lower Upper

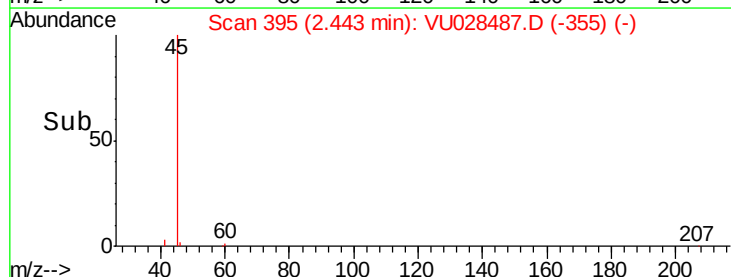
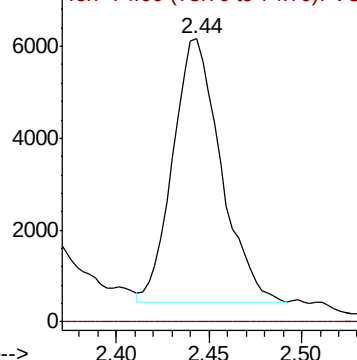
43 100

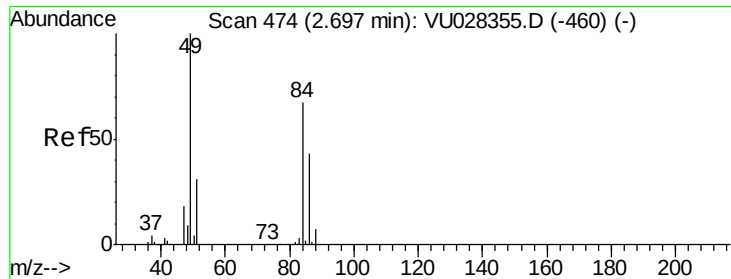
74 0.0 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

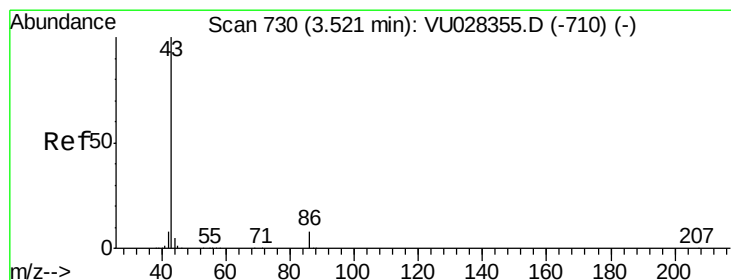
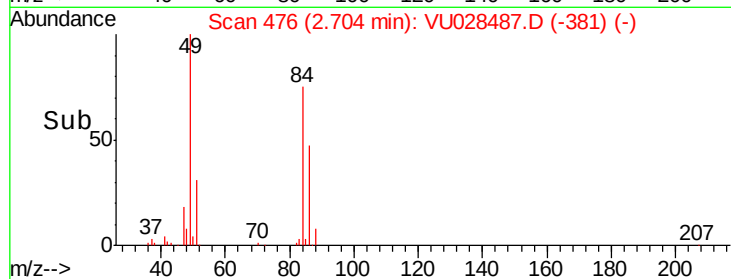
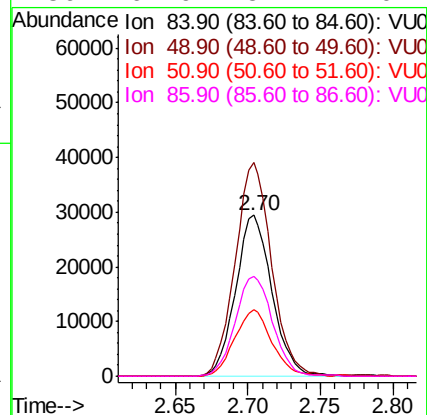
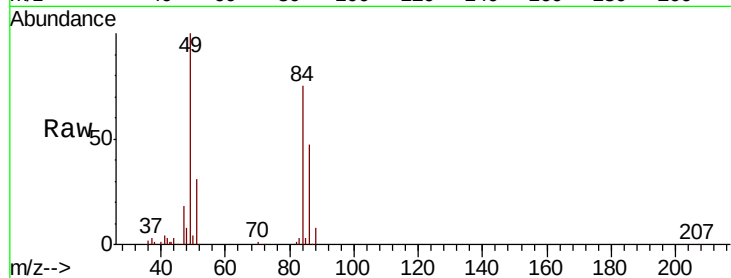




#20
Methvlene Chloride
Concen: 10.206 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

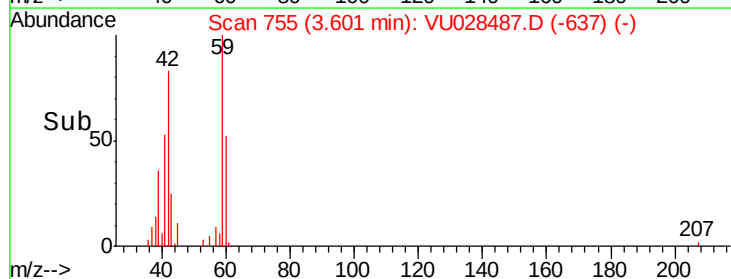
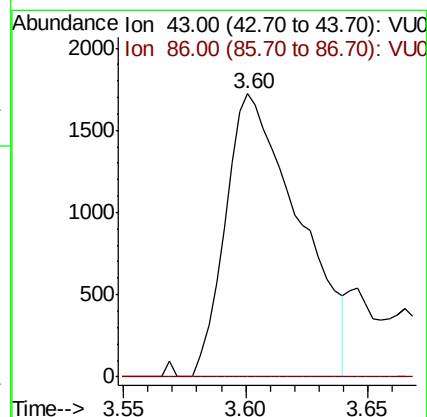
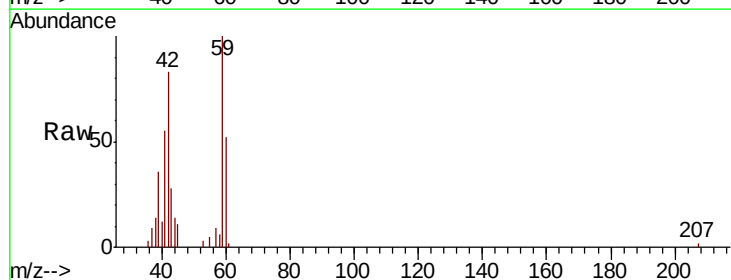
Instrument :
MSVOA_U
ClientSampleId :
TP-4RE

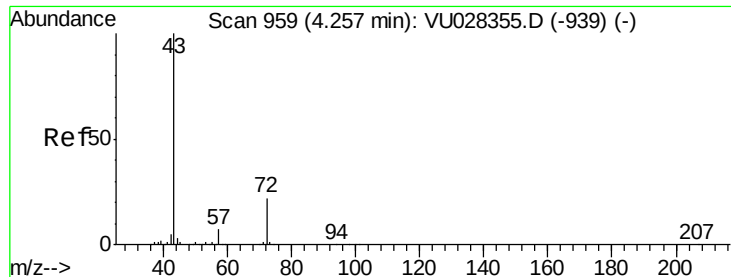
Tot Ion: 84 Resp: 51044
Ion Ratio Lower Upper
84 100
49 132.7 120.0 180.0
51 41.5 36.9 55.3
86 61.9 51.1 76.7



#23
Vinyl Acetate
Concen: 0.229 ug/l
RT: 3.60 min Scan# 755
Delta R.T. 0.08 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

Tgt Ion: 43 Resp: 3600
Ion Ratio Lower Upper
43 100
86 0.0 6.5 9.7#





#25

2-Butanone

Concen: 2.899 ug/l

RT: 4.28 min Scan# 965

Delta R.T. 0.02 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

Instrument :

MSVOA_U

ClientSampled :

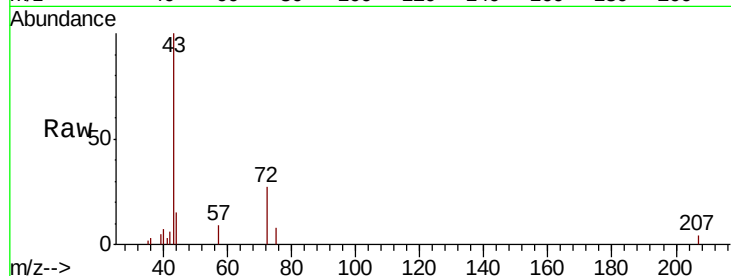
TP-4RE

Tot Ion: 43 Resp: 14649

Ion Ratio Lower Upper

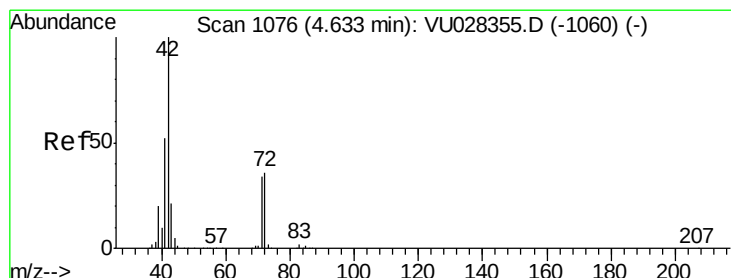
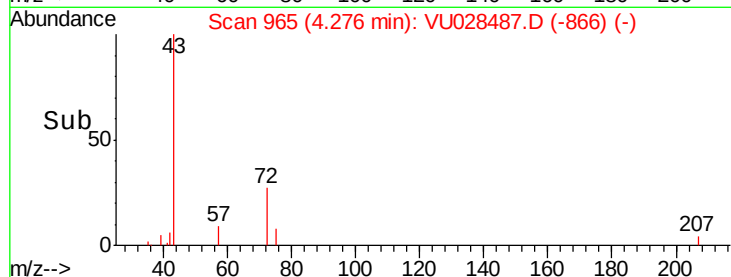
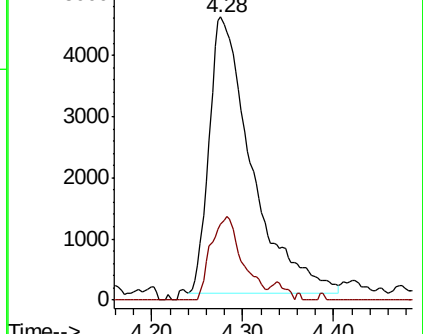
43 100

72 27.8 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#29

Tetrahydrofuran

Concen: 0.532 ug/l

RT: 4.67 min Scan# 1086

Delta R.T. 0.03 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

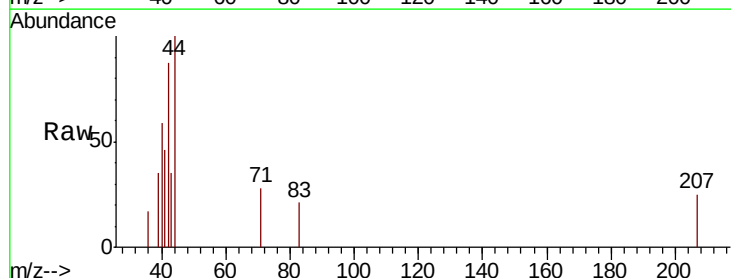
Tgt Ion: 42 Resp: 1744

Ion Ratio Lower Upper

42 100

72 16.8 29.5 44.3#

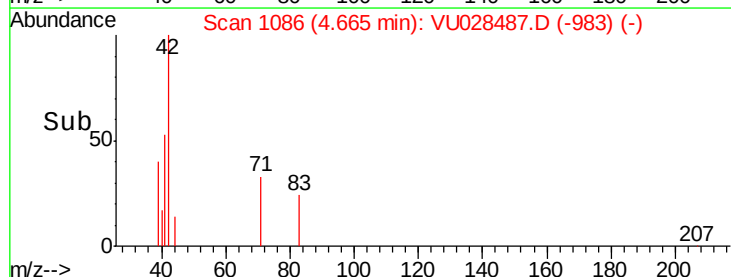
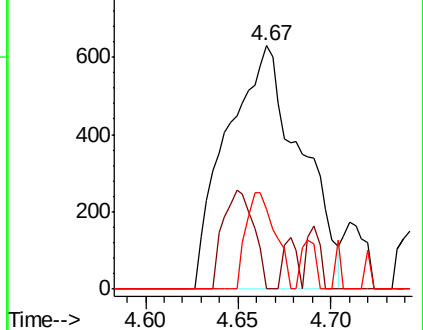
71 15.5 27.7 41.5#

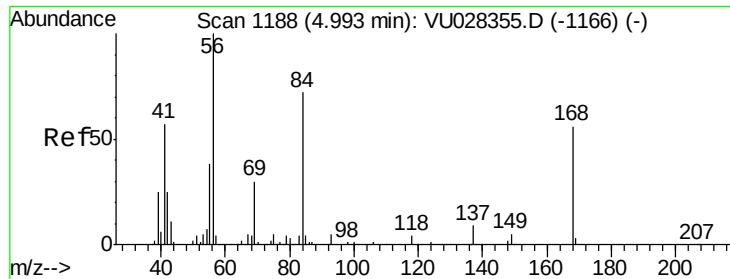


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

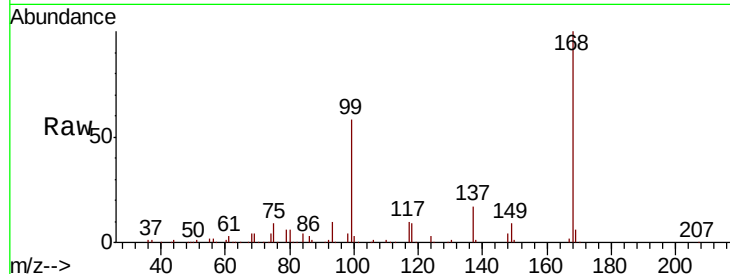




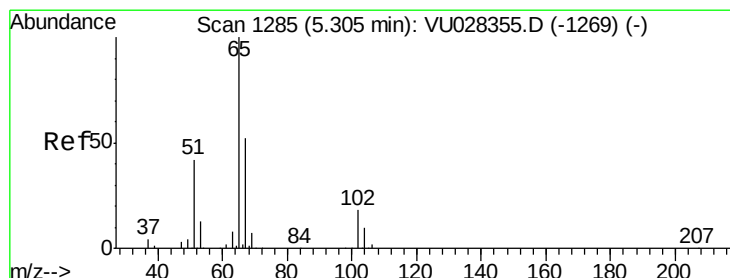
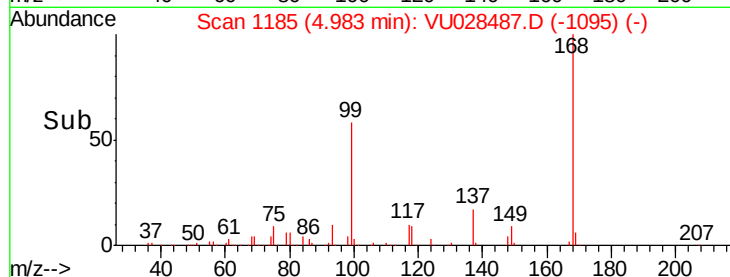
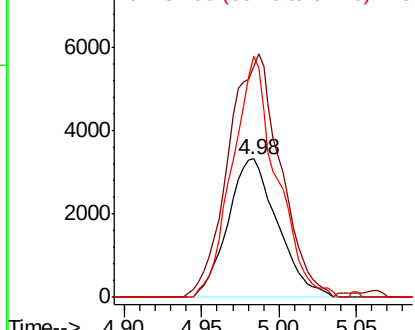
#31
Cyclohexane
Concen: 0.391 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

Instrument :
MSVOA_U
ClientSampled :
TP-4RE

Tot Ion: 56 Resp: 7418
Ion Ratio Lower Upper
56 100
69 163.6 23.7 35.5#
84 174.5 57.3 85.9#

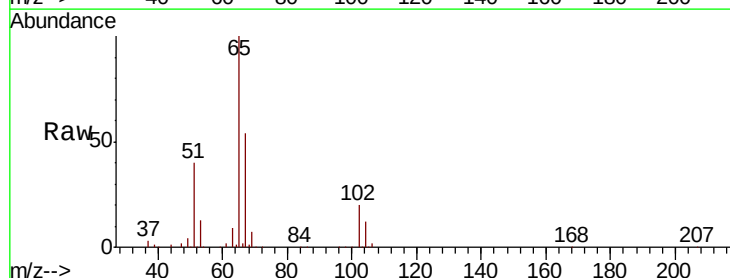


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

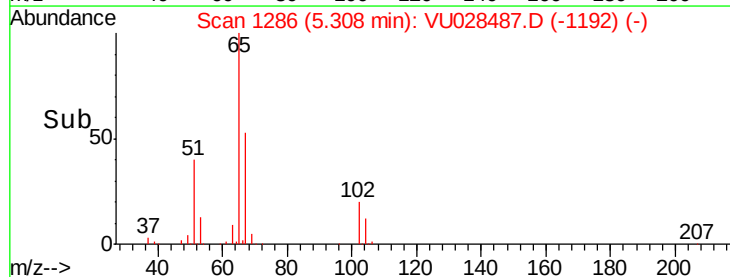
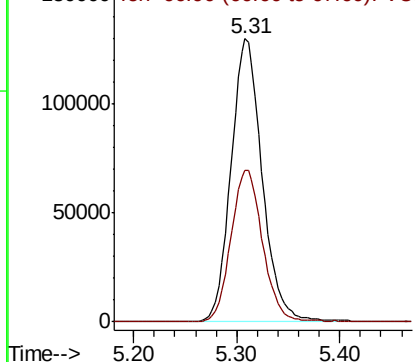


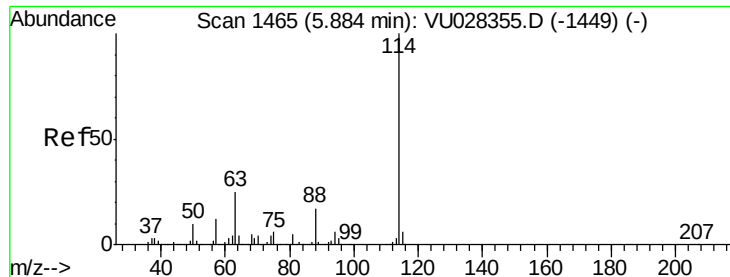
#33
1,2-Dichloroethane-d4
Concen: 47.377 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. 0.00 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

Tgt Ion: 65 Resp: 273042
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.8



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: 5.89 min Scan# 1466

Delta R.T. 0.00 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

TP-4RE

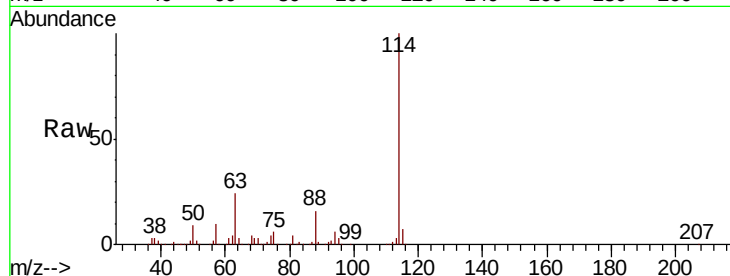
Tot Ion:114 Resp: 633681

Ion Ratio Lower Upper

114 100

63 23.6 0.0 50.0

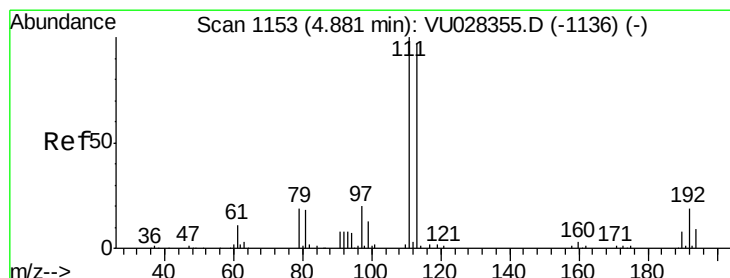
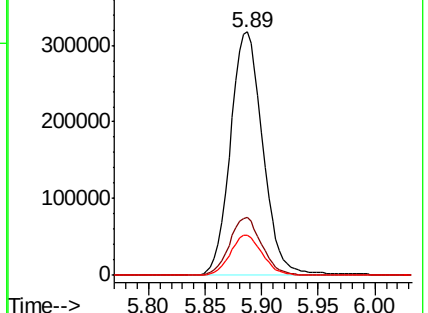
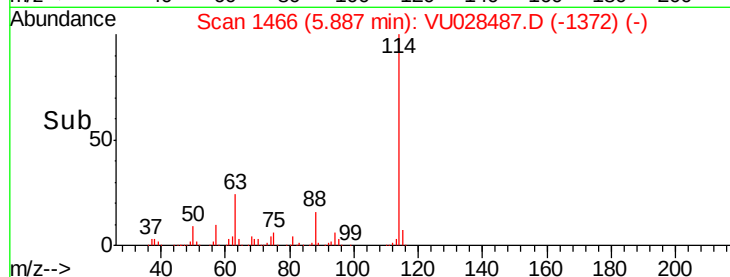
88 16.3 0.0 34.4



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: 20.643 ug/l

RT: 4.88 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

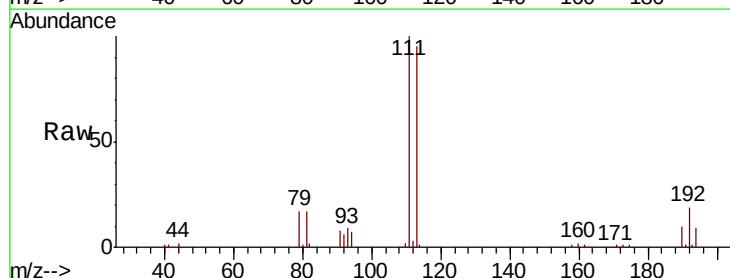
Tgt Ion:113 Resp: 86986

Ion Ratio Lower Upper

113 100

111 104.1 82.9 124.3

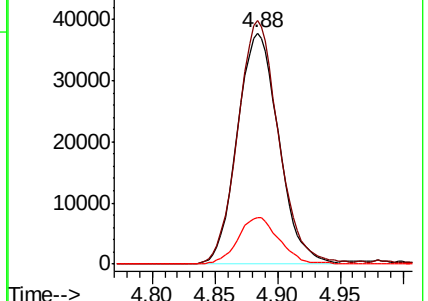
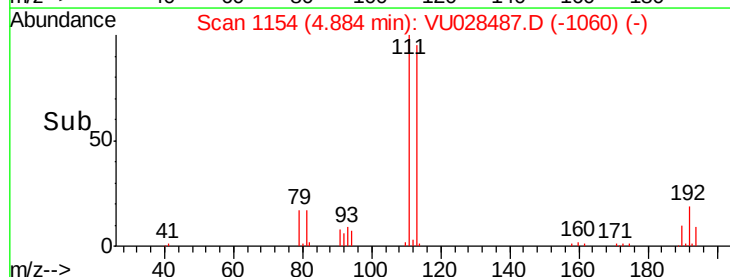
192 20.1 15.4 23.0

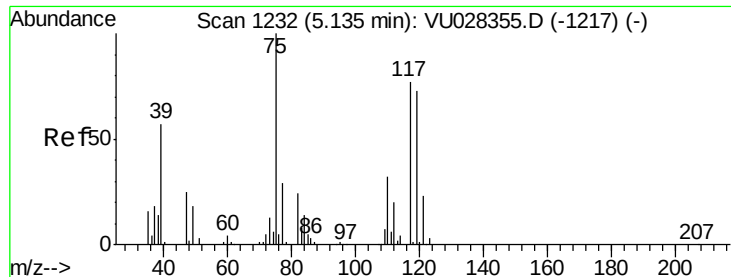


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.291 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

TP-4RE

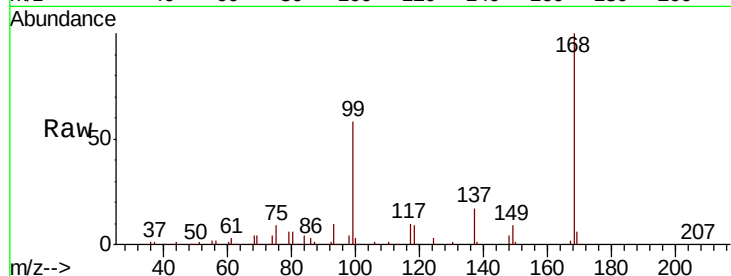
Tot Ion: 75 Resp: 29753

Ion Ratio Lower Upper

75 100

110 6.6 15.8 47.4#

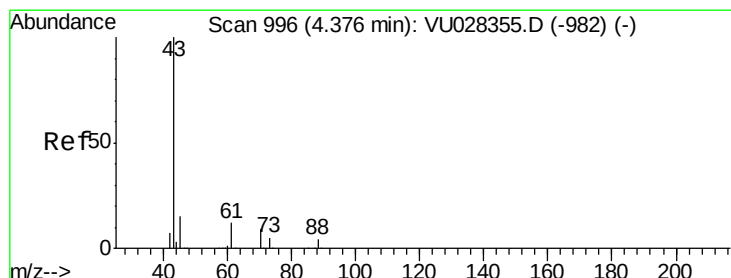
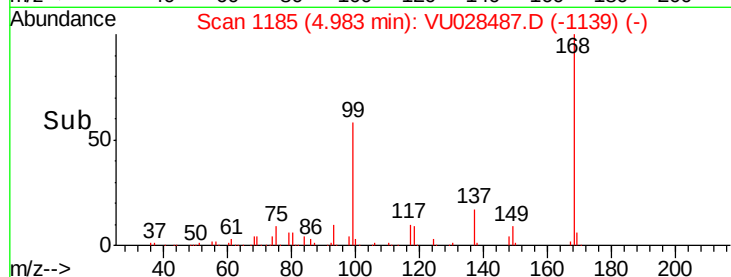
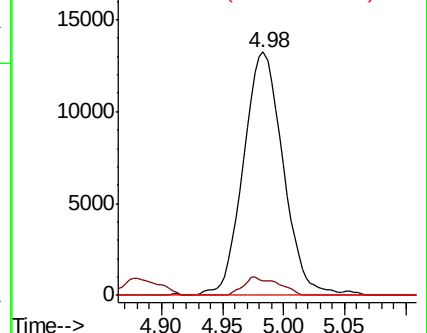
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): VU0

Ion 76.90 (76.60 to 77.60): VU0



#37

Ethyl Acetate

Concen: 1.550 ug/l

RT: 4.28 min Scan# 965

Delta R.T. -0.10 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

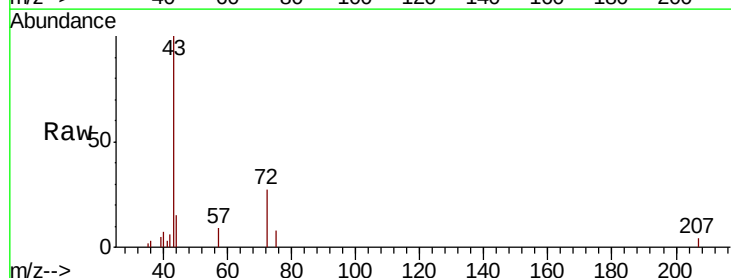
Tgt Ion: 43 Resp: 14649

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

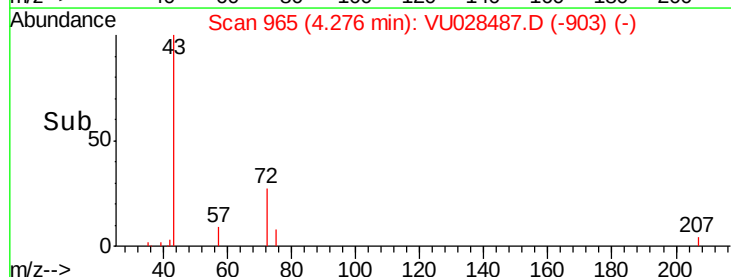
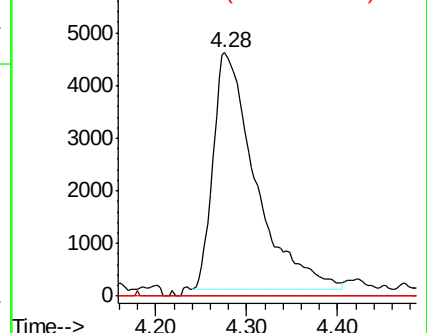
70 0.0 6.9 10.3#

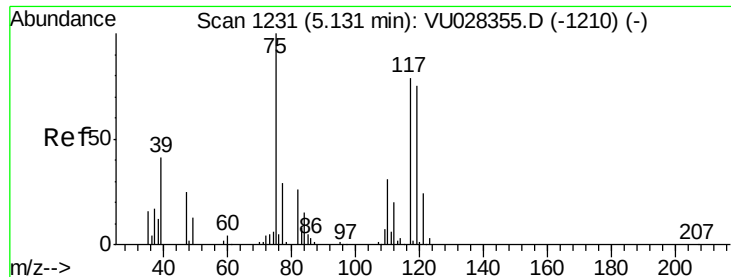


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 70.00 (69.70 to 70.70): VU0





#38

Carbon Tetrachloride

Concen: 5.834 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

TP-4RE

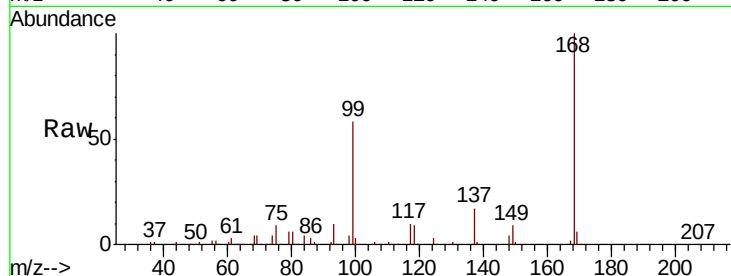
Tot Ion:117 Resp: 33220

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

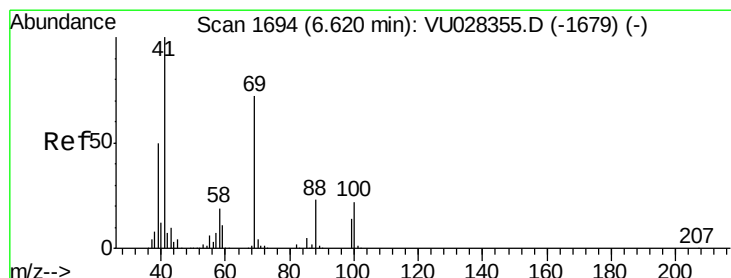
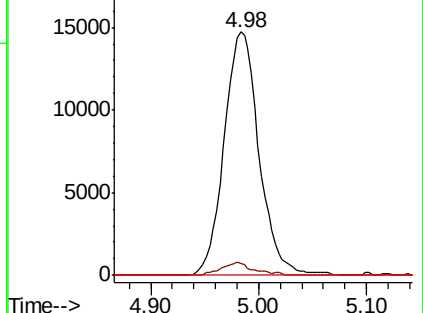
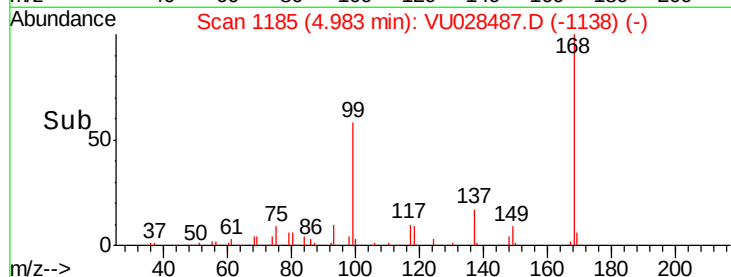
121 0.0 24.7 37.1#



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



#48

Methyl methacrylate

Concen: 2.347 ug/l

RT: 6.53 min Scan# 1667

Delta R.T. -0.09 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

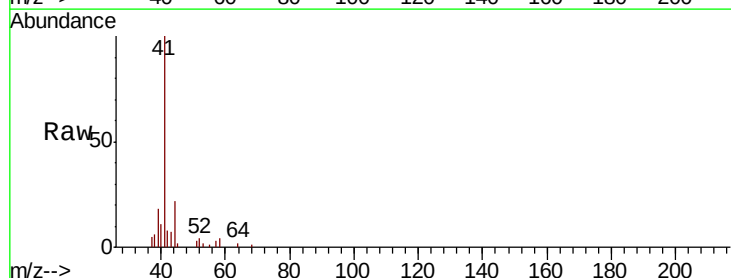
Tgt Ion: 41 Resp: 18311

Ion Ratio Lower Upper

41 100

69 0.0 59.0 88.4#

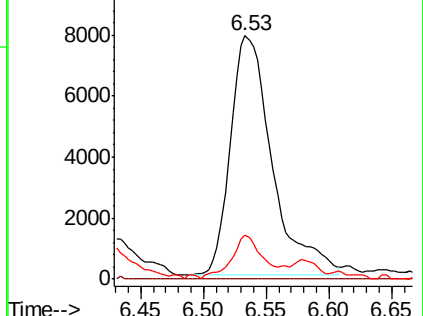
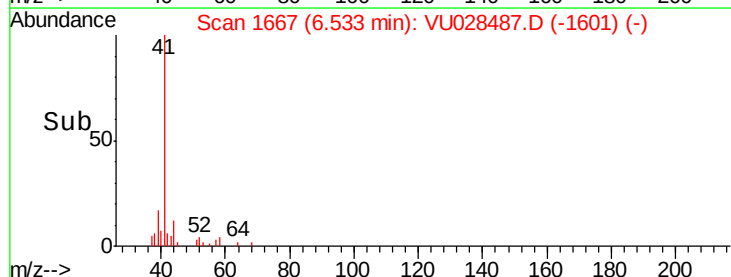
39 14.1 40.5 60.7#

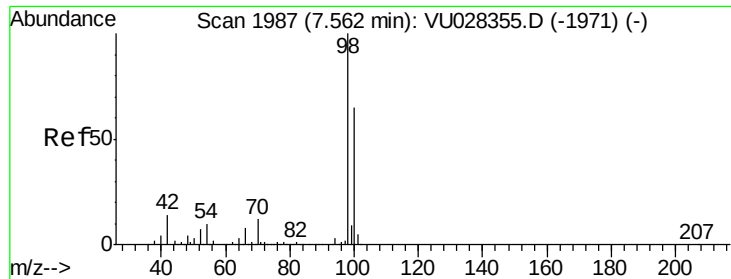


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

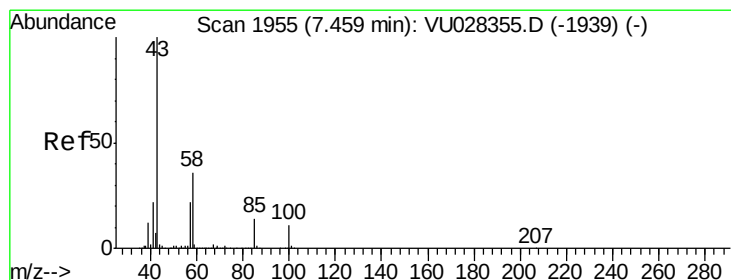
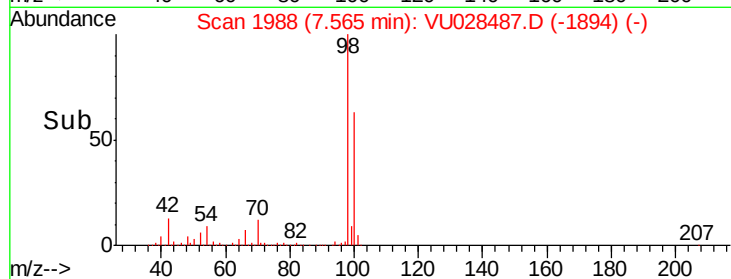
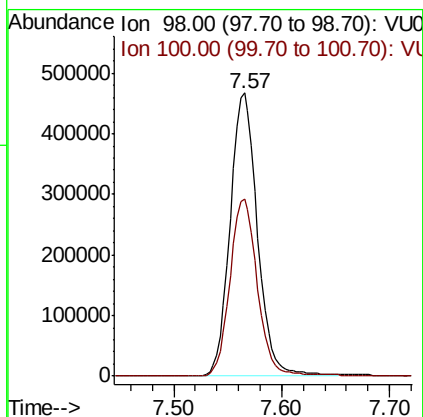
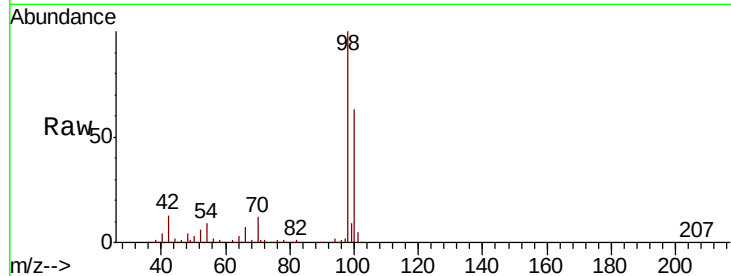




#50
Toluene-d8
Concen: 48.865 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

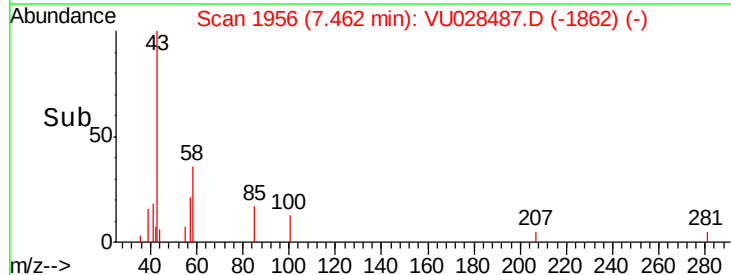
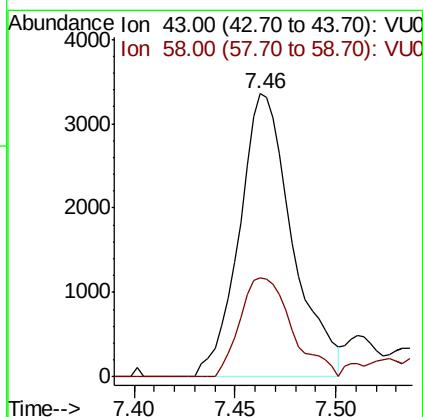
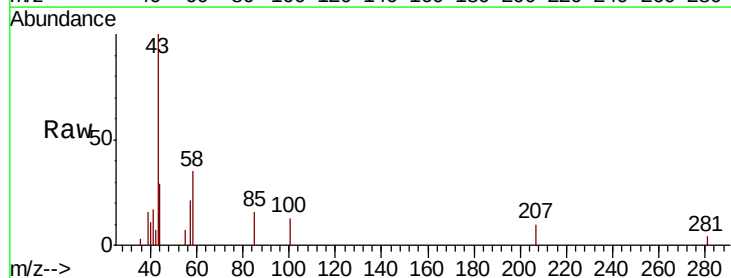
Instrument :
MSVOA_U
ClientSampleId :
TP-4RE

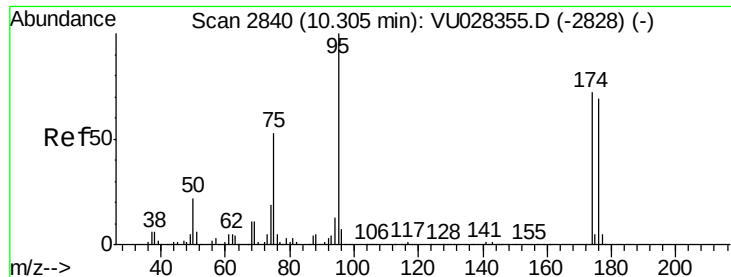
Tot Ion: 98 Resp: 823473
Ion Ratio Lower Upper
98 100
100 63.1 50.8 76.2



#51
4-Methyl-2-Pentanone
Concen: 0.646 ug/l
RT: 7.46 min Scan# 1956
Delta R.T. 0.00 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

Tgt Ion: 43 Resp: 6174
Ion Ratio Lower Upper
43 100
58 34.2 28.8 43.2





#62

4-Bromofluorobenzene

Concen: 49.174 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

Instrument :

MSVOA_U

ClientSampled :

TP-4RE

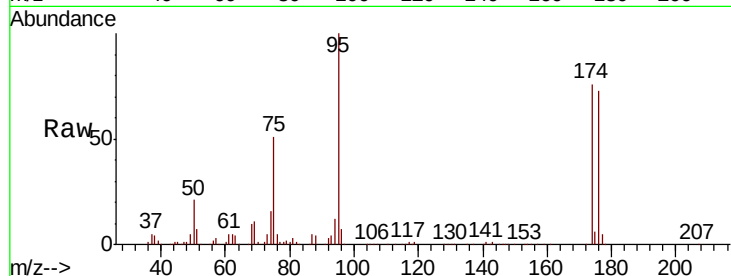
Tot Ion: 95 Resp: 298681

Ion Ratio Lower Upper

95 100

174 76.8 0.0 145.4

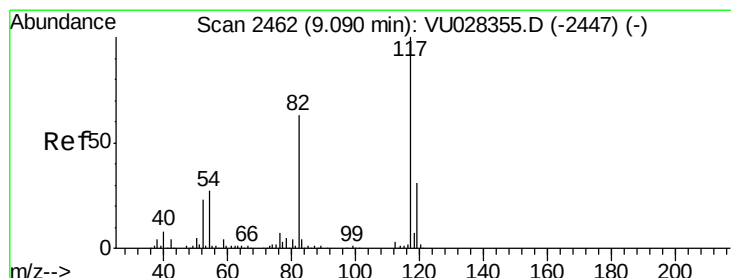
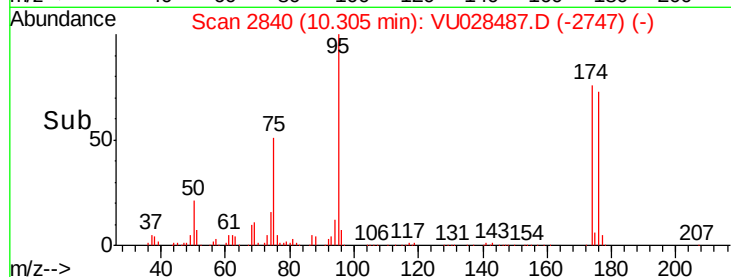
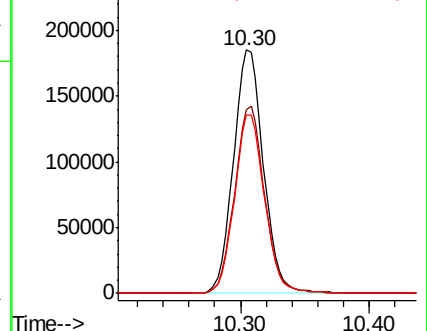
176 73.6 0.0 140.8



Abundance Ion 94.90 (94.60 to 95.60): VU028355.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028355.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028355.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

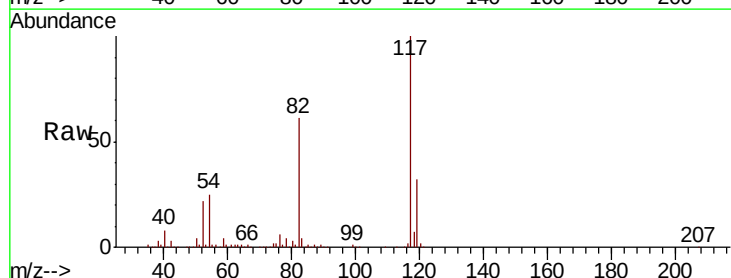
Tgt Ion: 117 Resp: 595246

Ion Ratio Lower Upper

117 100

82 60.9 50.3 75.5

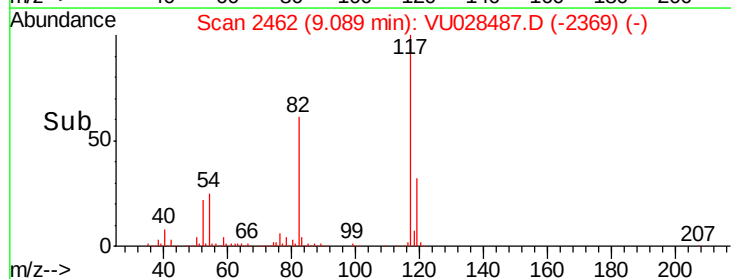
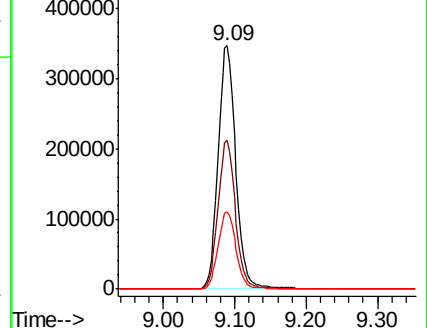
119 31.7 24.8 37.2

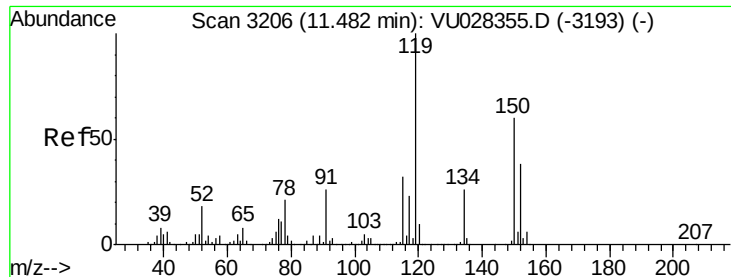


Abundance Ion 116.90 (116.60 to 117.60): VU028355.D (-2447) (-)

Ion 82.00 (81.70 to 82.70): VU028355.D (-2447) (-)

Ion 118.90 (118.60 to 119.60): VU028355.D (-2447) (-)



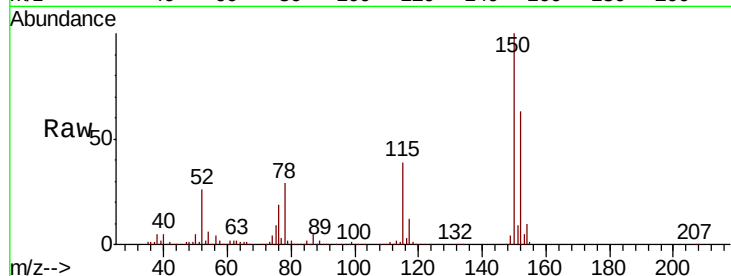


#72

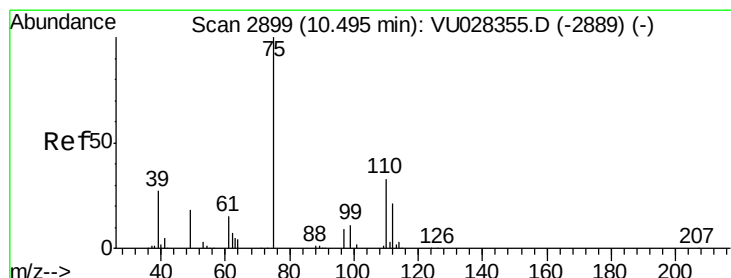
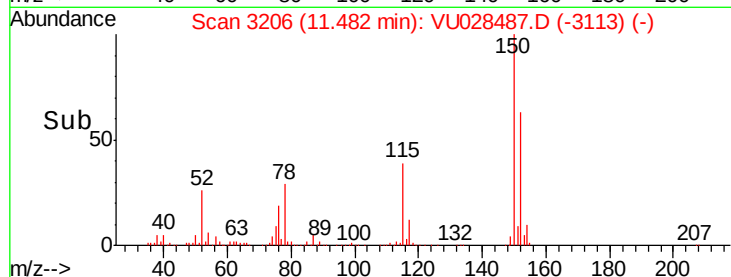
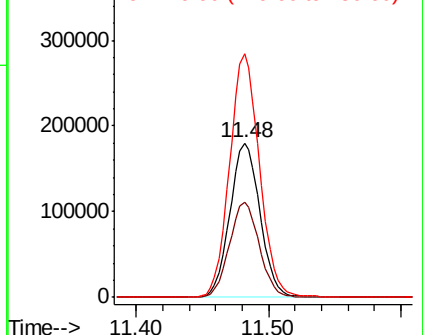
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

Instrument :
MSVOA_U
ClientSampleId :
TP-4RE

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.2	45.0	134.8
150	156.1	0.0	349.2



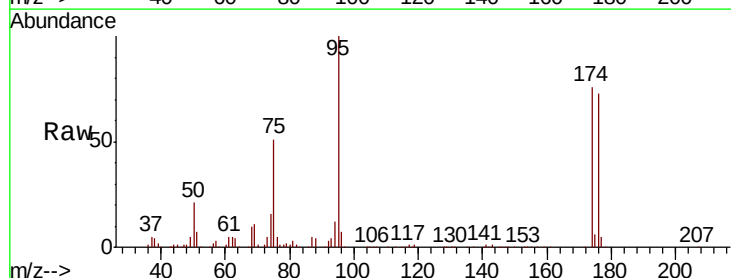
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



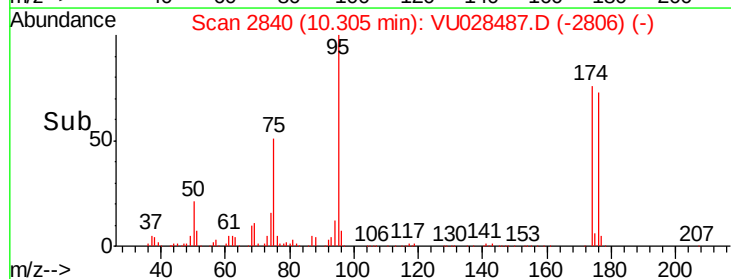
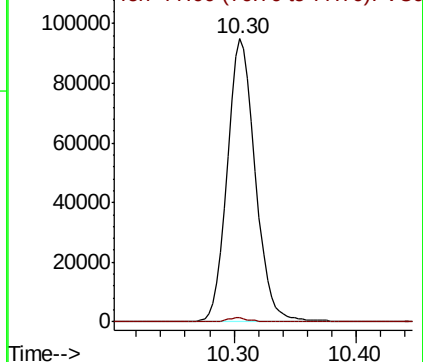
#76

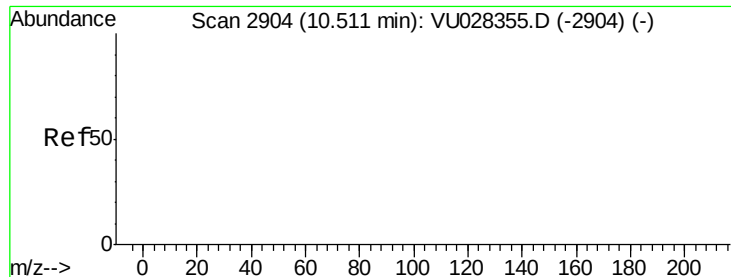
1,2,3-Trichloropropane
Concen: 19.329 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.19 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	22.4	67.0#



Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 77.00 (76.70 to 77.70): VU0

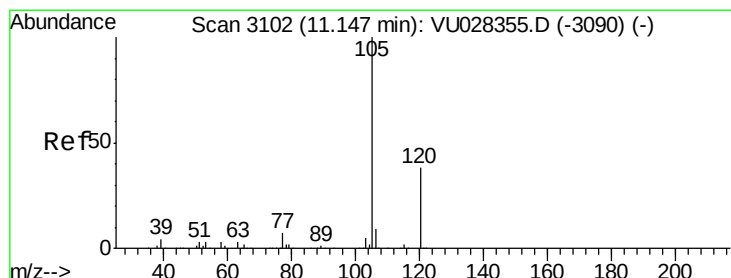
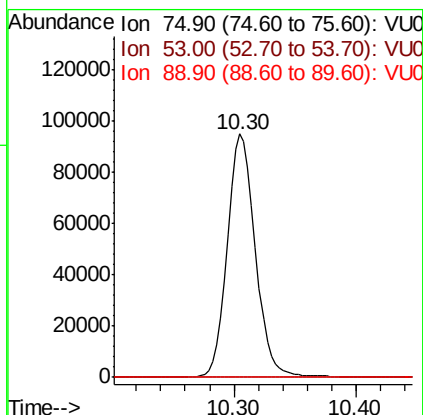
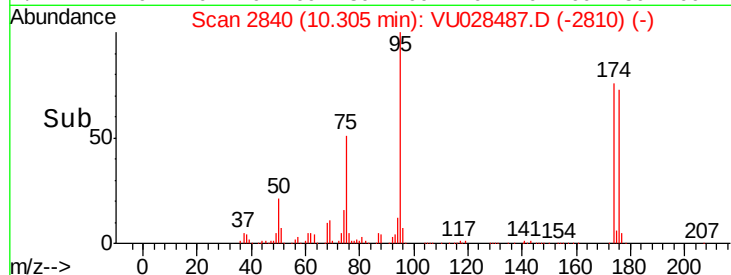
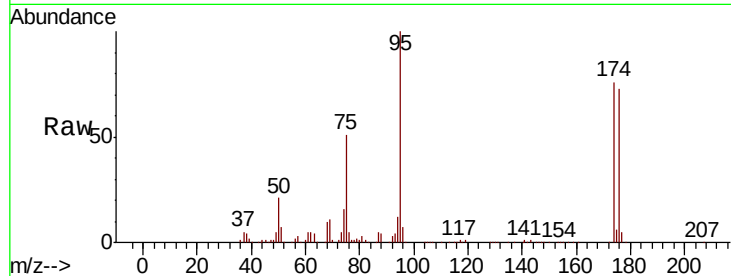




#81
trans-1,4-Dichloro-2-butene
Concen: 51.308 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.20 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

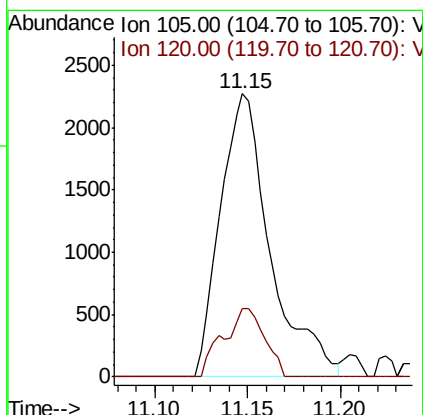
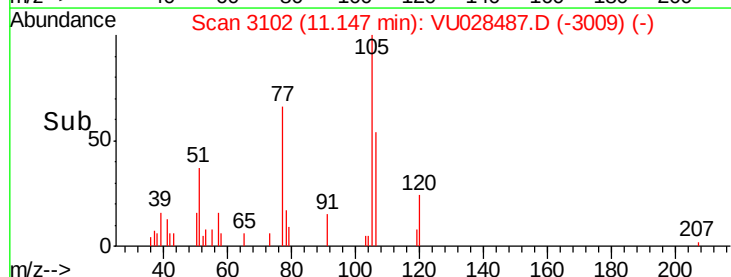
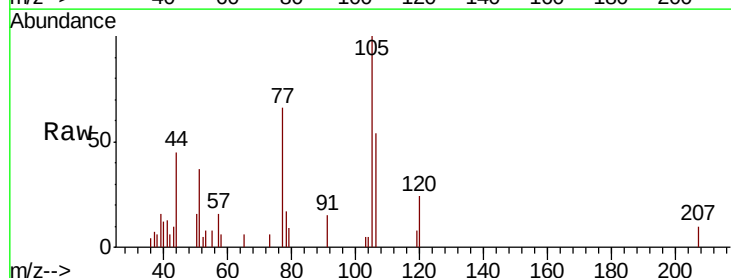
Instrument :
MSVOA_U
ClientSampleId :
TP-4RE

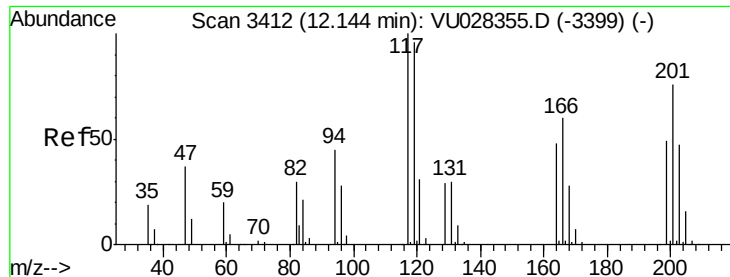
Tot Ion: 75 Resp: 152613
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0



#84
1,2,4-Trimethylbenzene
Concen: 0.224 ug/l
RT: 11.15 min Scan# 3102
Delta R.T. -0.00 min
Lab File: VU028487.D
Acq: 05 Dec 2018 17:53

Tgt Ion: 105 Resp: 4243
Ion Ratio Lower Upper
105 100
120 20.0 21.4 64.3#





#90

Hexachloroethane

Concen: 0.370 ug/l

RT: 12.25 min Scan# 3446

Delta R.T. 0.11 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

Instrument :

MSVOA_U

ClientSampleId :

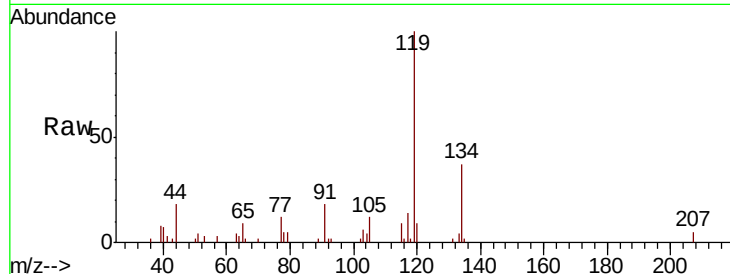
TP-4RE

Tot Ion:117 Resp: 1074

Ion Ratio Lower Upper

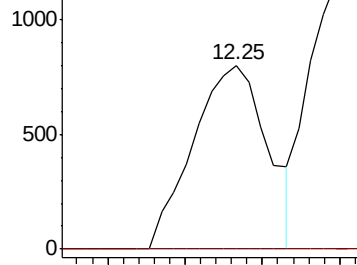
117 100

201 0.0 37.7 113.1#

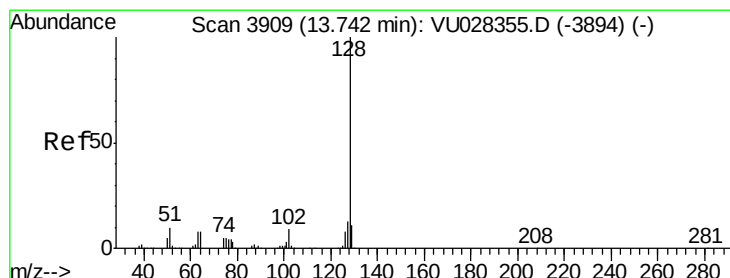
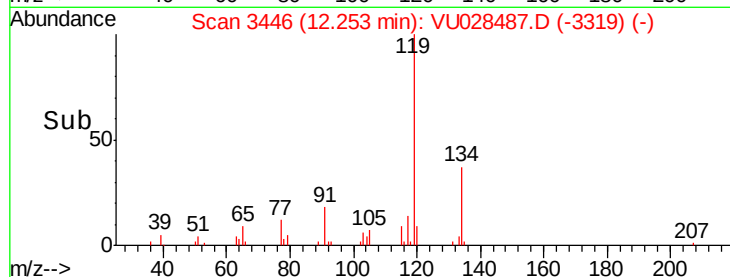


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



Time-->



#95

Naphthalene

Concen: 3.635 ug/l

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU028487.D

Acq: 05 Dec 2018 17:53

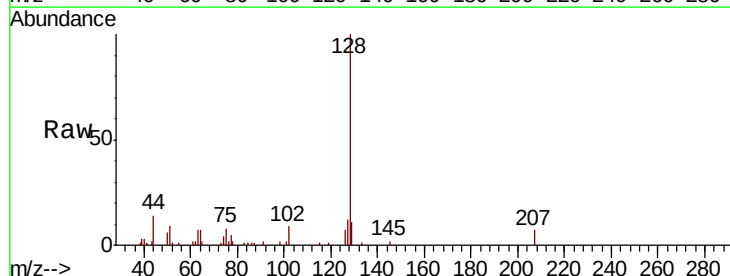
Tgt Ion:128 Resp: 20311

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

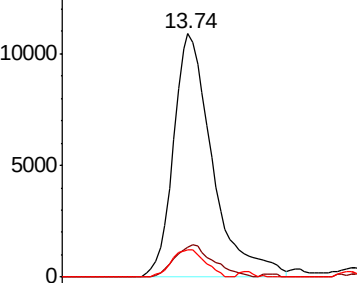
129 9.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->

