

Data File : VU029244.D
Acq On : 21 Jan 2019 13:20
Operator : JC/SP
Sample : PB116506ZHE#04
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#04

Quant Time: Jan 22 01:09:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U010319W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 12 01:33:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	111999	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	198369	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	184806	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73534	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	74891	54.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.18%	
35) Dibromofluoromethane	4.88	113	65620	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
50) Toluene-d8	7.56	98	257587	50.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.48%	
62) 4-Bromofluorobenzene	10.30	95	81758	44.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.62%	

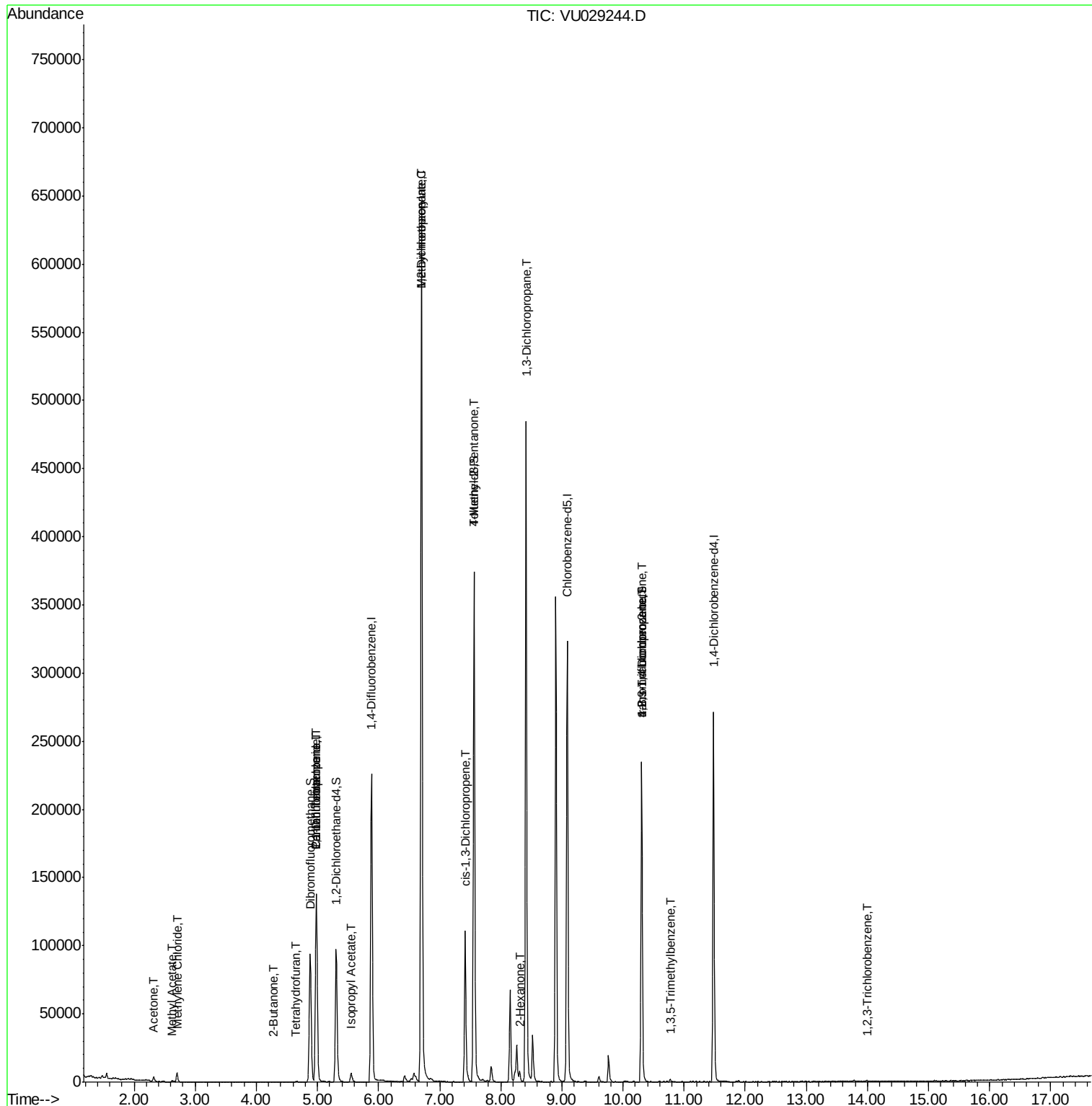
Target Compounds			Qvalue			
3) Chloromethane	1.33	50	813	Below Cal	#	88
5) Bromomethane	1.55	94	71	Below Cal	#	2
16) Acetone	2.32	43	4301	4.931	ug/l	98
17) Carbon Disulfide	2.48	76	596	Below Cal	#	75
18) Methyl Acetate	2.62	43	1346	0.664	ug/l #	61
20) Methylene Chloride	2.70	84	3209	2.167	ug/l	95
25) 2-Butanone	4.29	43	277	0.235	ug/l #	47
29) Tetrahydrofuran	4.66	42	298	0.417	ug/l #	35
31) Cyclohexane	4.98	56	1901	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8257	4.164	ug/l #	43
38) Carbon Tetrachloride	4.98	117	9953	6.018	ug/l #	18
43) Isopropyl Acetate	5.55	43	8256	2.473	ug/l	95
45) 1,2-Dichloropropane	6.70	63	677	0.415	ug/l #	43
48) Methyl methacrylate	6.70	41	54414	33.472	ug/l #	36
51) 4-Methyl-2-Pentanone	7.56	43	4483	1.973	ug/l	100
54) cis-1,3-Dichloropropene	7.42	75	20749	8.315	ug/l #	64
57) 1,3-Dichloropropane	8.41	76	4892	1.895	ug/l #	42
59) 2-Hexanone	8.31	43	5954	3.338	ug/l #	21
76) 1,2,3-Trichloropropane	10.30	75	38660	21.458	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	1318	0.290	ug/l	99
81) trans-1,4-Dichloro-2-buten	10.30	75	38660	55.340	ug/l #	100
96) 1,2,3-Trichlorobenzene	13.99	180	226	0.904	ug/l #	80

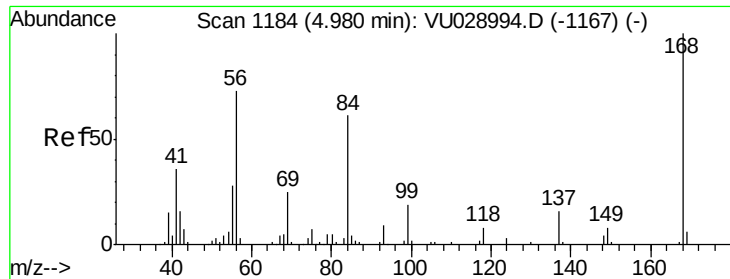
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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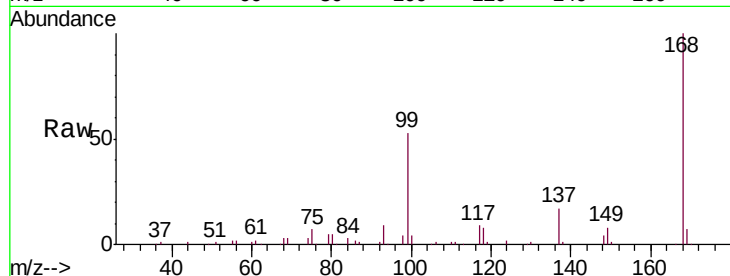




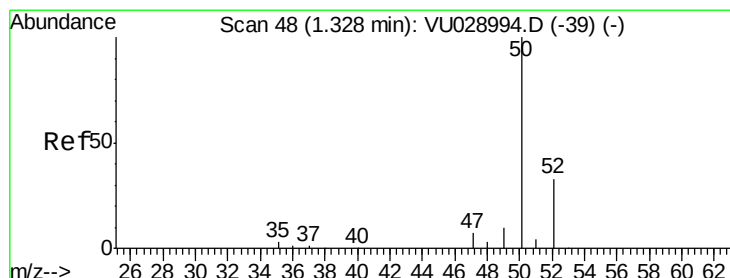
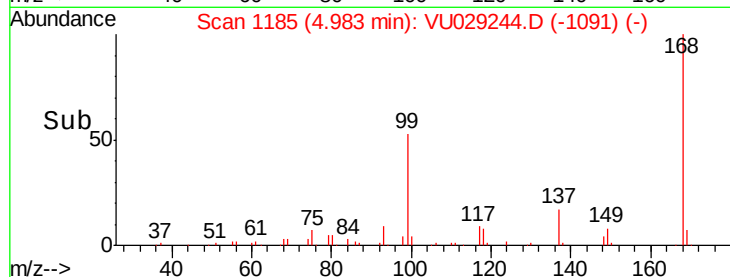
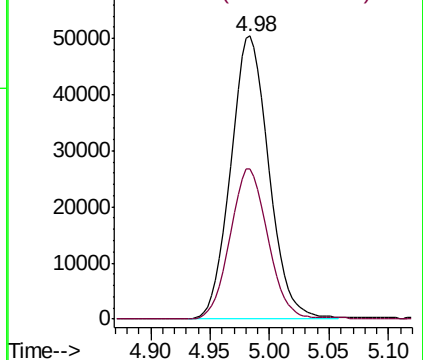
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. 0.00 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#04

Tgt Ion:168 Resp: 111999
Ion Ratio Lower Upper
168 100
99 53.3 42.0 63.0

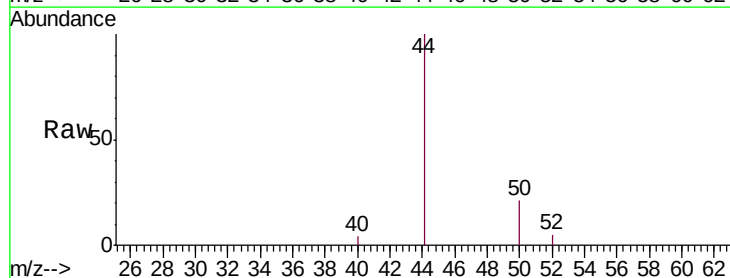


Abundance Ion 167.90 (167.60 to 168.60): VU028994.D (-1167) (-)
Ion 98.90 (98.60 to 99.60): VU028994.D (-1167) (-)

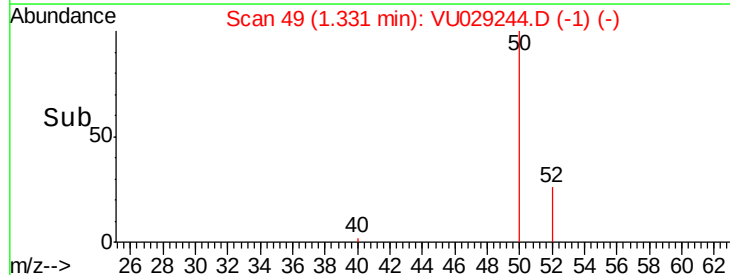
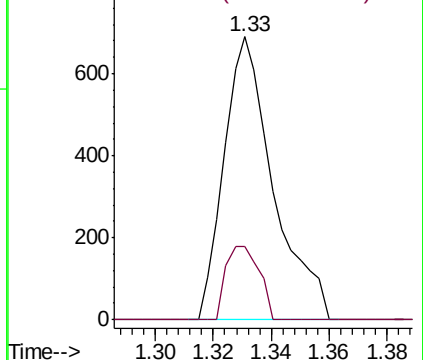


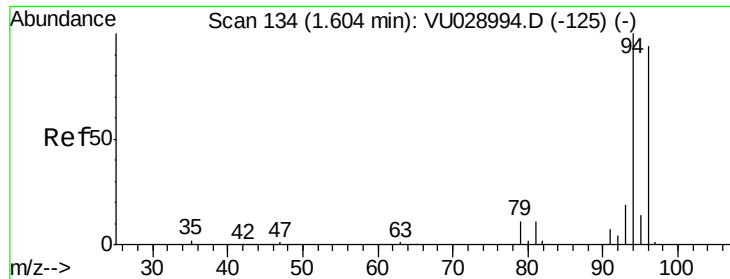
#3
Chloromethane
Concen: Below Cal
RT: 1.33 min Scan# 49
Delta R.T. 0.00 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Tgt Ion: 50 Resp: 813
Ion Ratio Lower Upper
50 100
52 25.8 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VU028994.D (-39) (-)
Ion 51.90 (51.60 to 52.60): VU028994.D (-39) (-)





#5

Bromomethane

Concen: Below Cal

RT: 1.55 min Scan# 117

Delta R.T. -0.05 min

Lab File: VU029244.D

Acq: 21 Jan 2019 13:20

Instrument :

MSVOA_U

ClientSampleId :

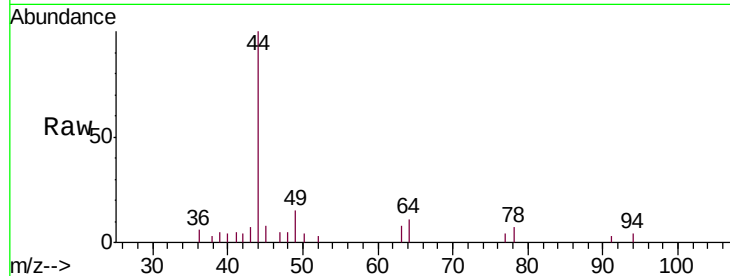
PB116506ZHE#04

Tgt Ion: 94 Resp: 71

Ion Ratio Lower Upper

94 100

96 0.0 75.5 113.3#

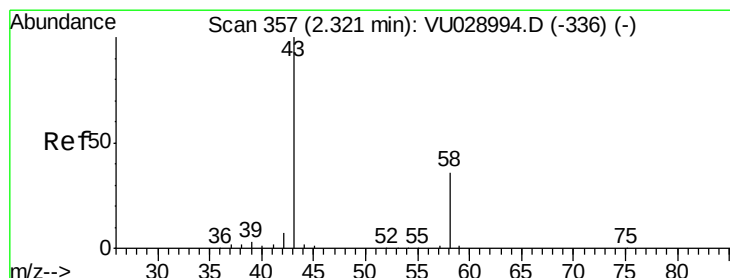
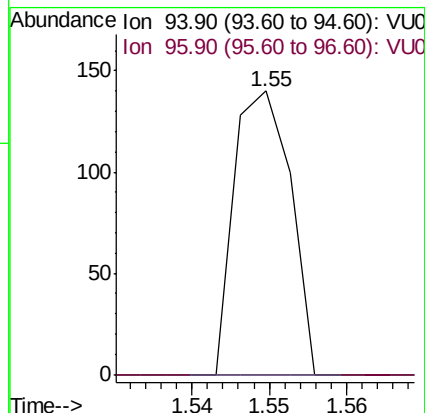
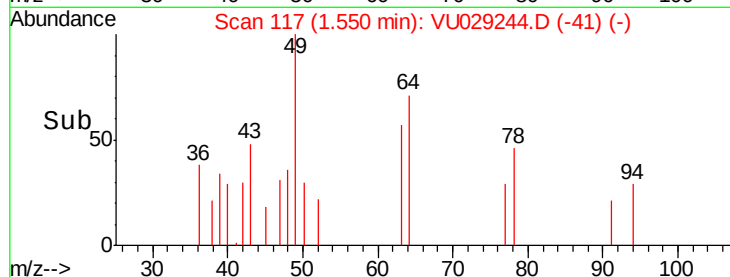


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.55

1.54 1.55 1.56



#16

Acetone

Concen: 4.931 ug/l

RT: 2.32 min Scan# 357

Delta R.T. 0.00 min

Lab File: VU029244.D

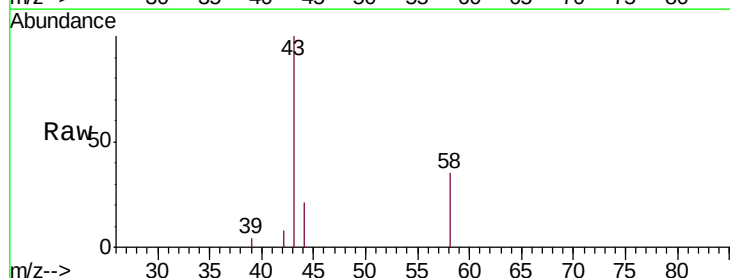
Acq: 21 Jan 2019 13:20

Tgt Ion: 43 Resp: 4301

Ion Ratio Lower Upper

43 100

58 34.6 28.6 42.8

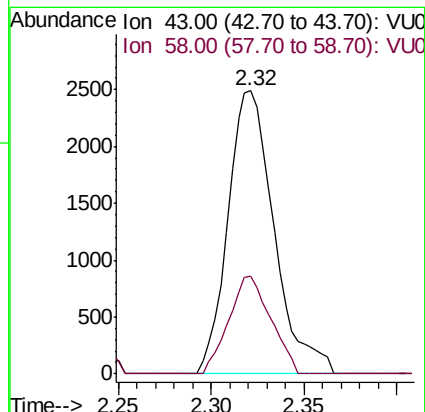
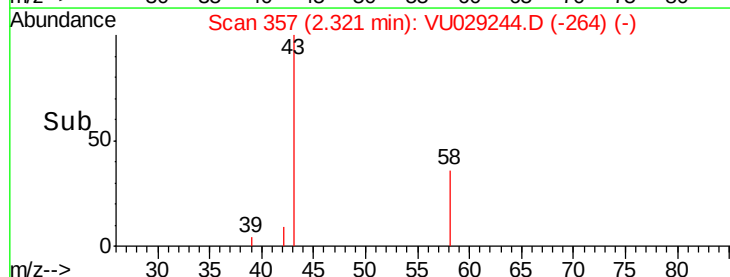


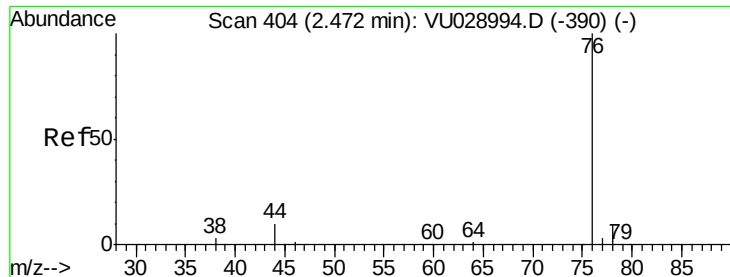
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.32

2.25 2.30 2.35





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029244.D

Acq: 21 Jan 2019 13:20

Instrument :

MSVOA_U

ClientSampleId :

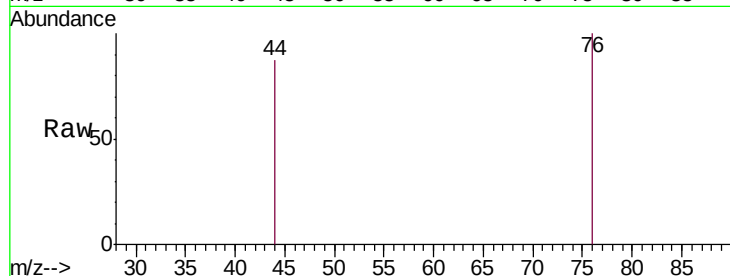
PB116506ZHE#04

Tgt Ion: 76 Resp: 596

Ion Ratio Lower Upper

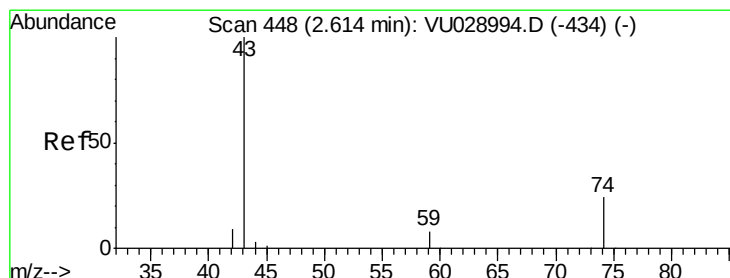
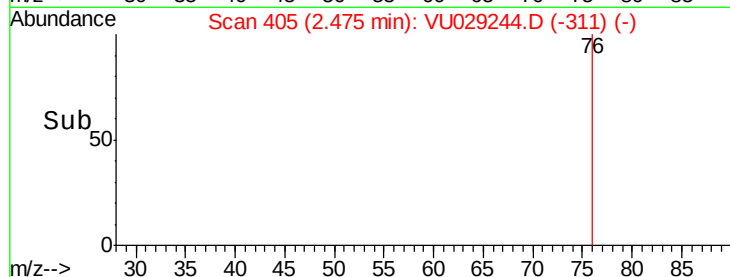
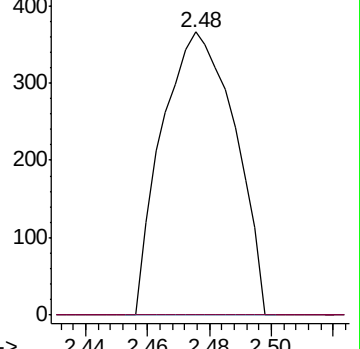
76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 0.664 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU029244.D

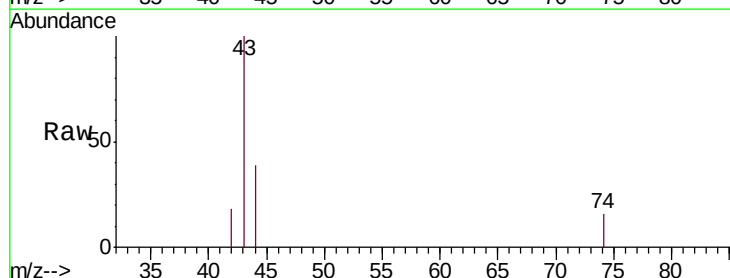
Acq: 21 Jan 2019 13:20

Tgt Ion: 43 Resp: 1346

Ion Ratio Lower Upper

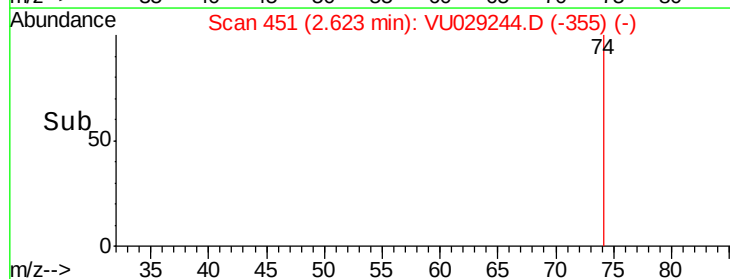
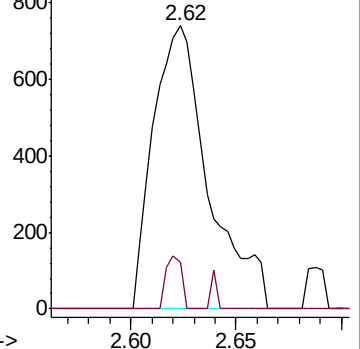
43 100

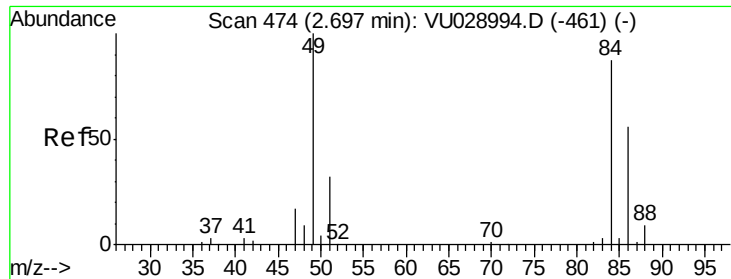
74 5.3 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

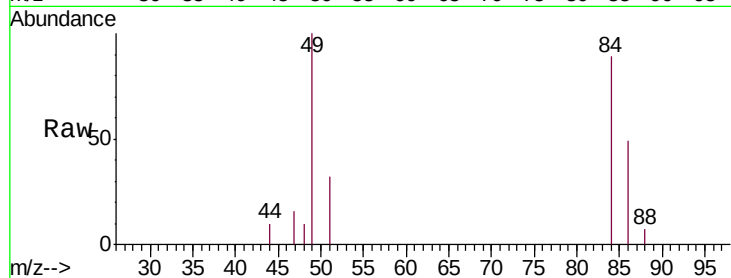




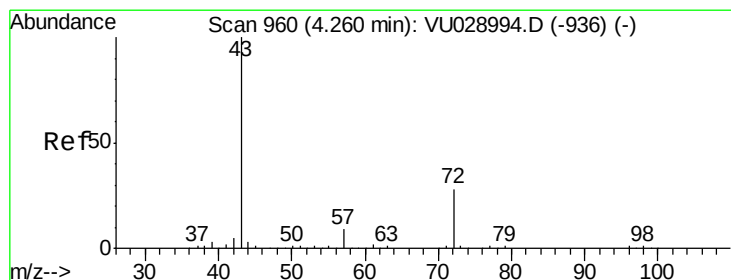
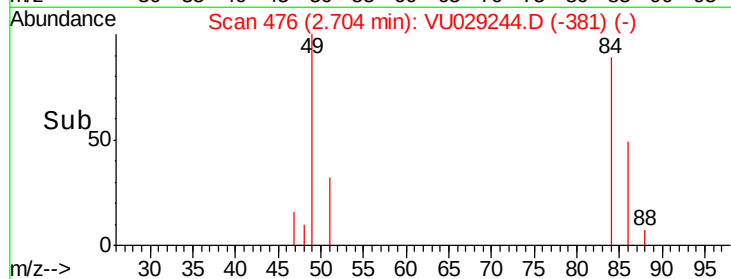
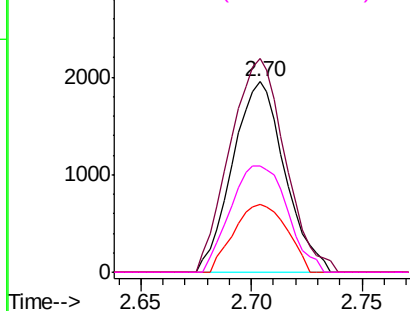
#20
Methylene Chloride
Concen: 2.167 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#04

Tgt Ion:	84	Resp:	3209
Ion	Ratio	Lower	Upper
84	100		
49	112.1	91.9	137.9
51	35.4	29.2	43.8
86	55.4	51.8	77.6

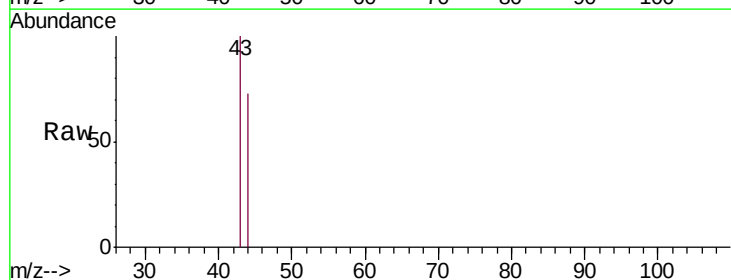


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

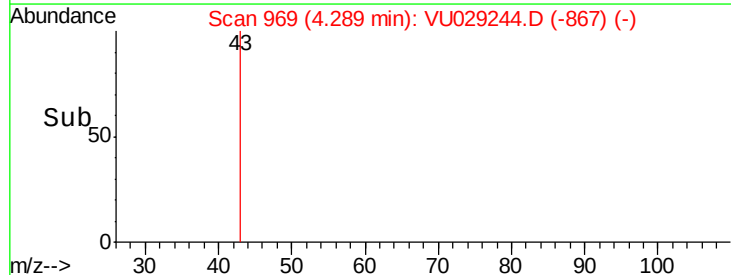
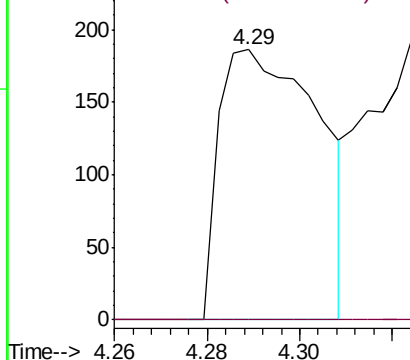


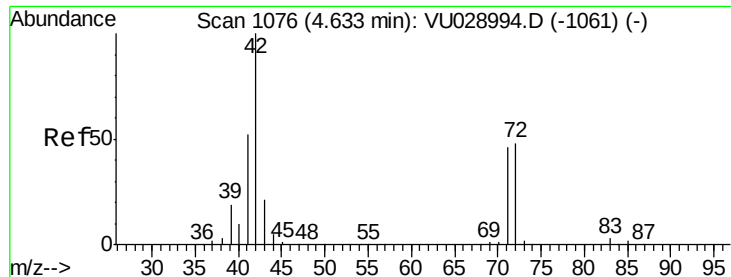
#25
2-Butanone
Concen: 0.235 ug/l
RT: 4.29 min Scan# 969
Delta R.T. 0.03 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Tgt Ion:	43	Resp:	277
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.6	33.8#



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 72.00 (71.70 to 72.70): VU0





#29

Tetrahydrofuran

Concen: 0.417 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU029244.D

Acq: 21 Jan 2019 13:20

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#04

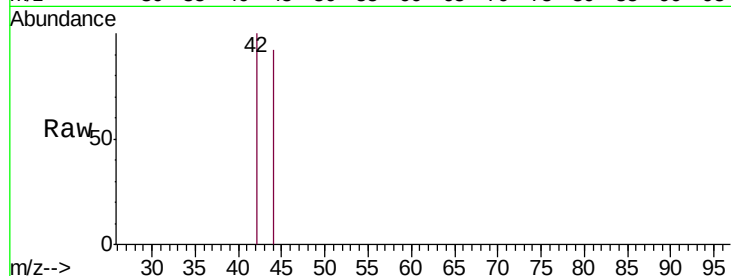
Tgt Ion: 42 Resp: 298

Ion Ratio Lower Upper

42 100

72 7.0 38.3 57.5#

71 0.0 36.1 54.1#



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

250

200

150

100

50

0

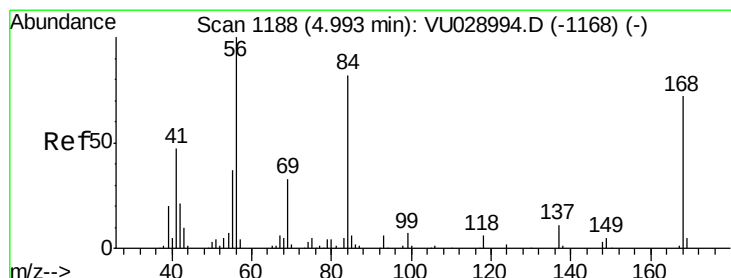
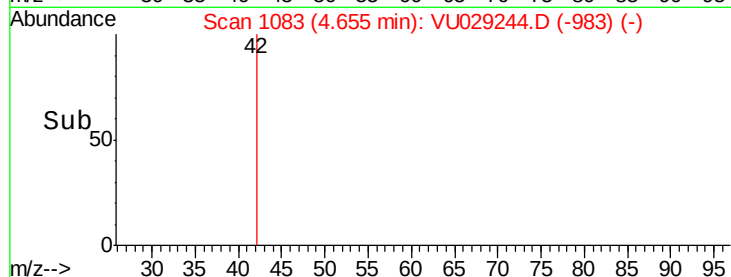
4.62

4.64

4.66

4.68

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VU029244.D

Acq: 21 Jan 2019 13:20

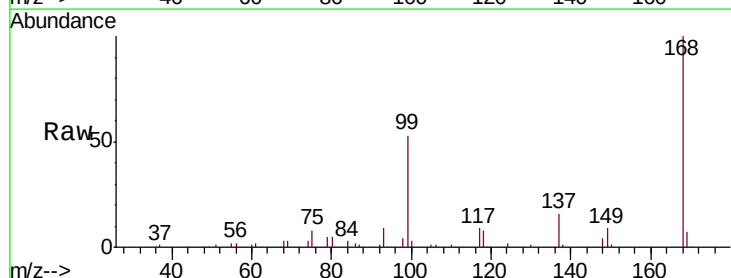
Tgt Ion: 56 Resp: 1901

Ion Ratio Lower Upper

56 100

69 189.7 26.7 40.1#

84 184.3 65.7 98.5#



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

2000

1500

1000

500

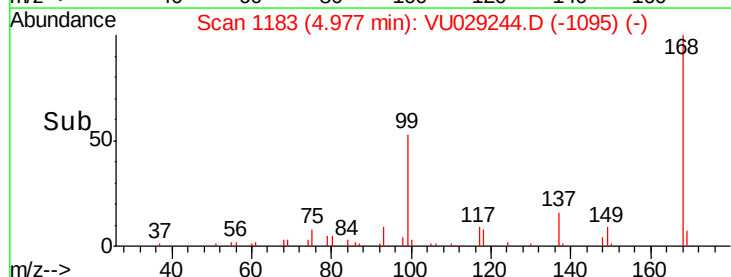
0

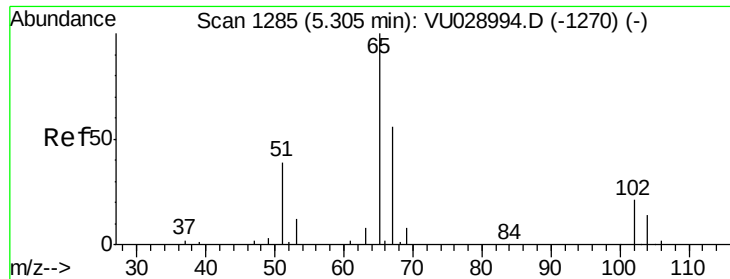
4.95

4.98

5.00

Time-->

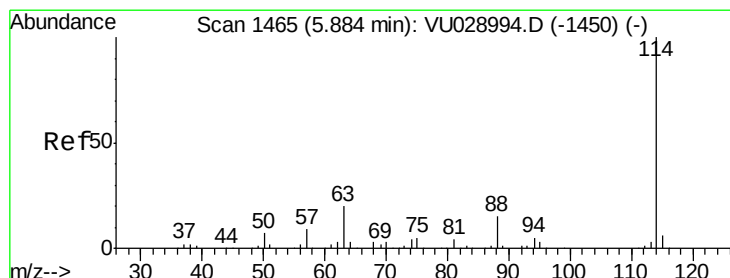
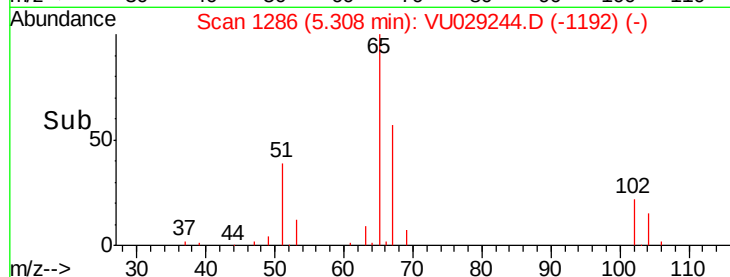
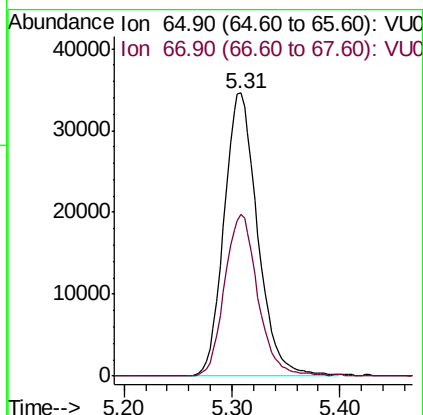
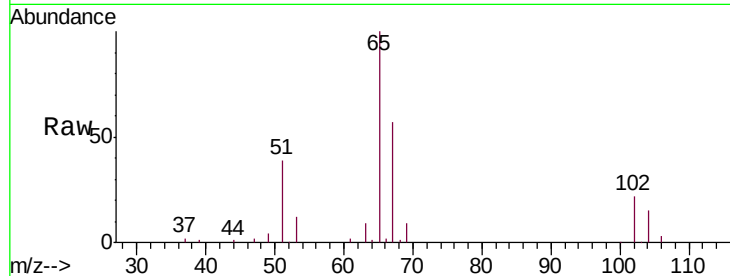




#33
 1,2-Dichloroethane-d4
 Concen: 54.091 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. 0.00 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

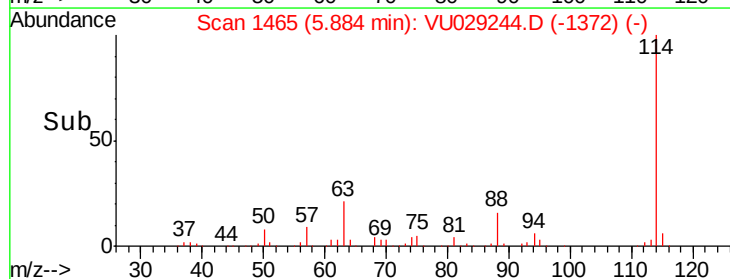
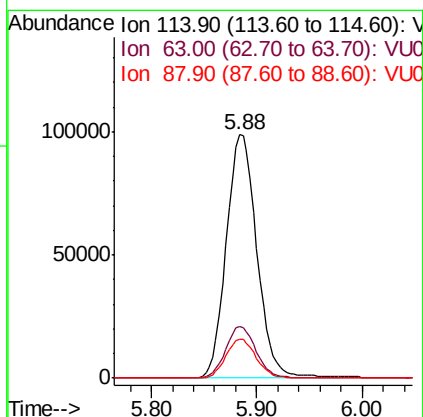
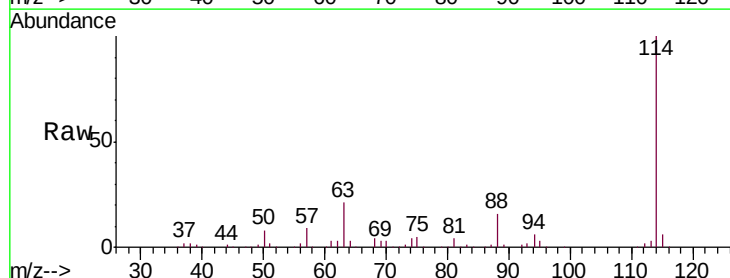
Instrument :
 MSVOA_U
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 PB116506ZHE#04

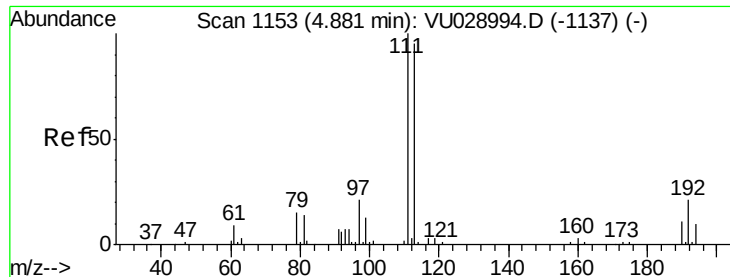
Tgt Ion: 65 Resp: 74891
 Ion Ratio Lower Upper
 65 100
 67 56.2 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

Tgt Ion: 114 Resp: 198369
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 40.2
 88 15.9 0.0 30.4

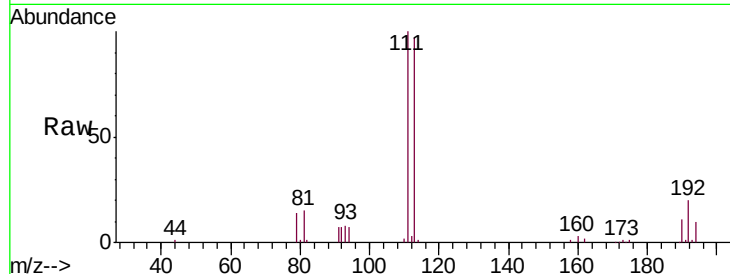




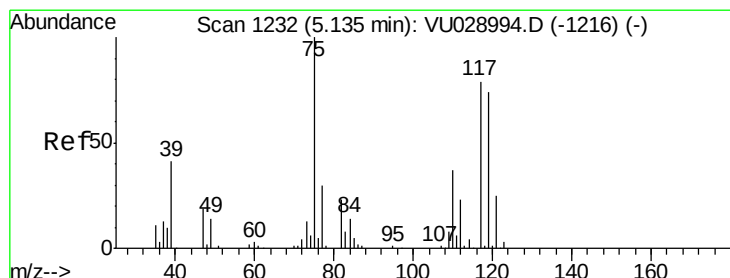
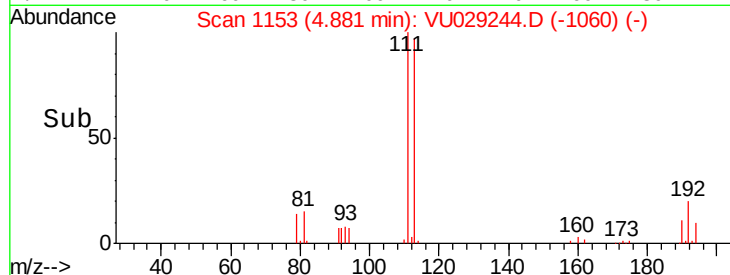
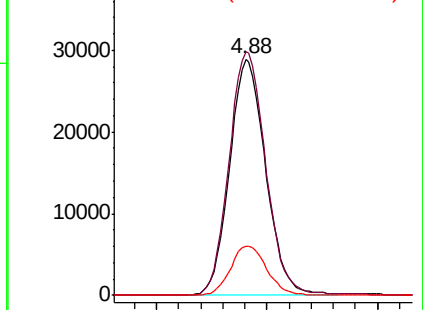
#35
 Dibromofluoromethane
 Concen: 51.031 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#04

Tgt Ion:113 Resp: 65620
 Ion Ratio Lower Upper
 113 100
 111 105.0 81.4 122.2
 192 20.9 16.8 25.2

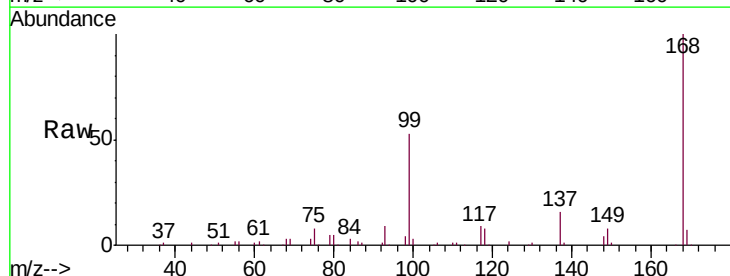


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

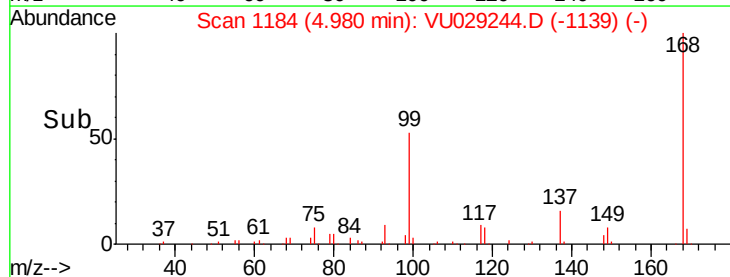
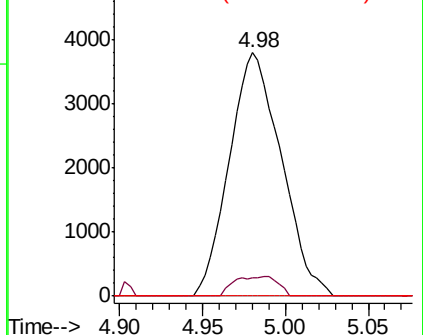


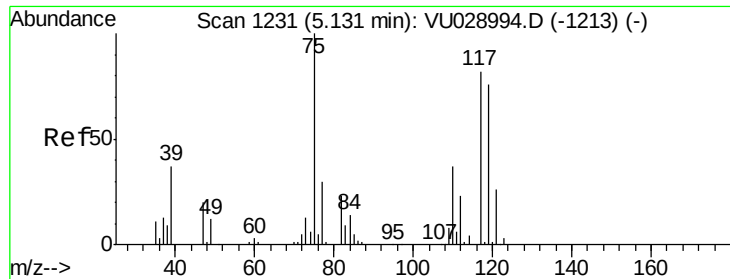
#36
 1,1-Dichloropropene
 Concen: 4.164 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

Tgt Ion: 75 Resp: 8257
 Ion Ratio Lower Upper
 75 100
 110 2.7 18.4 55.4#
 77 0.0 25.1 37.7#



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

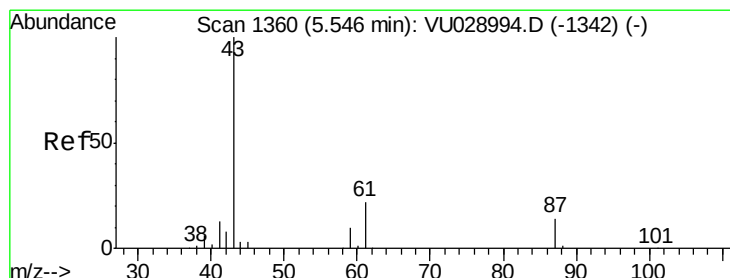
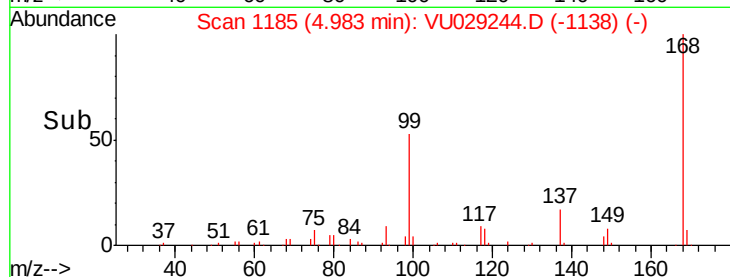
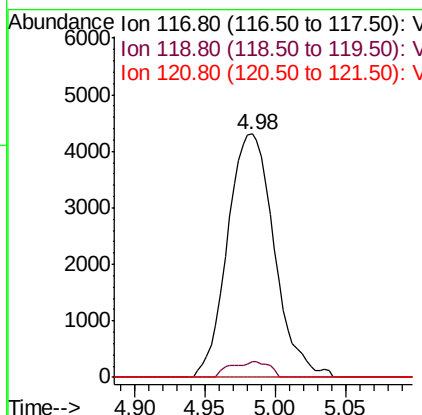
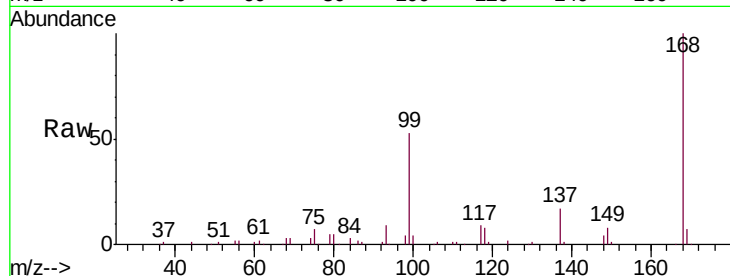




#38
Carbon Tetrachloride
Concen: 6.018 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.15 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

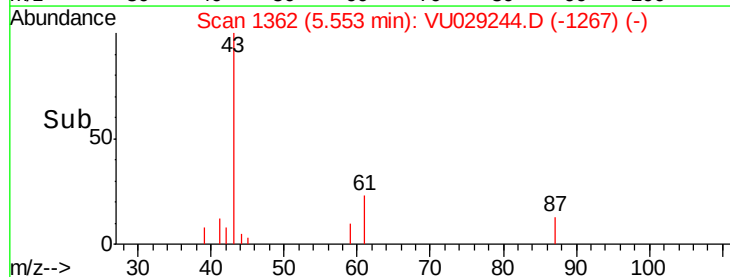
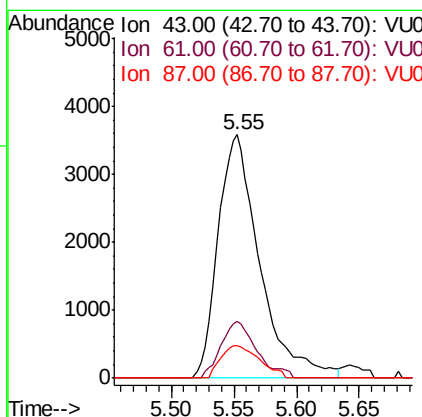
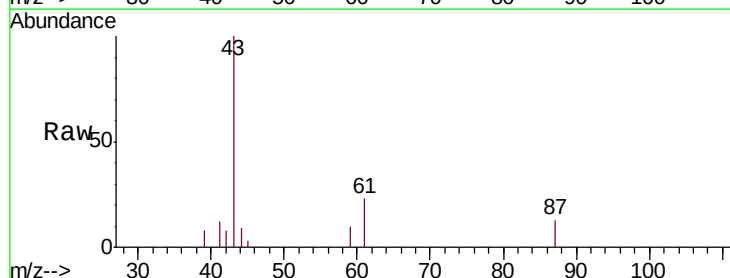
Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#04

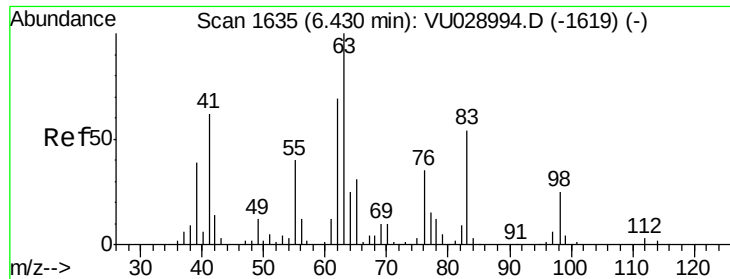
Tgt Ion: 117 Resp: 9953
Ion Ratio Lower Upper
117 100
119 6.3 74.6 111.8#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.473 ug/l
RT: 5.55 min Scan# 1362
Delta R.T. 0.01 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Tgt Ion: 43 Resp: 8256
Ion Ratio Lower Upper
43 100
61 20.0 17.8 26.6
87 12.3 11.3 16.9

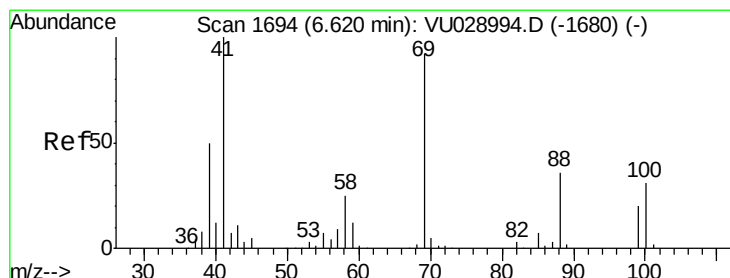
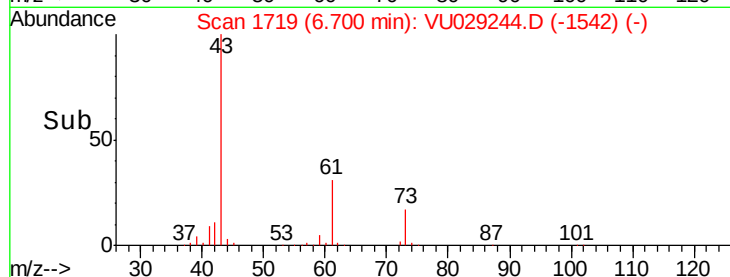
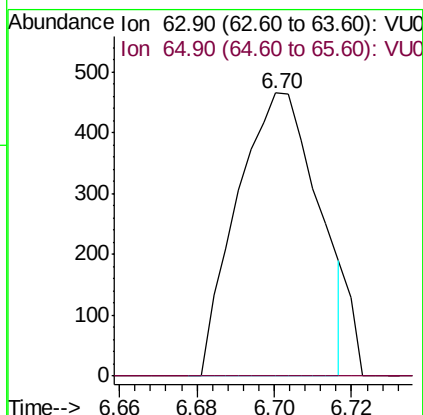
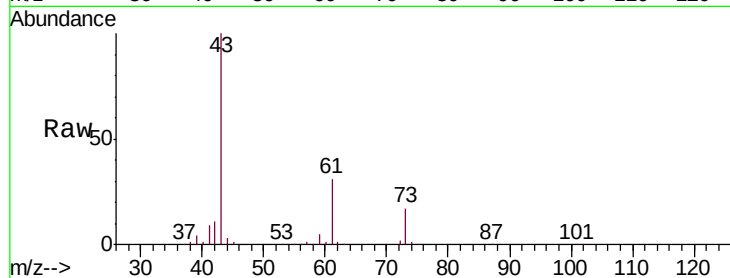




#45
 1,2-Dichloropropane
 Concen: 0.415 ug/l
 RT: 6.70 min Scan# 1719
 Delta R.T. 0.27 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

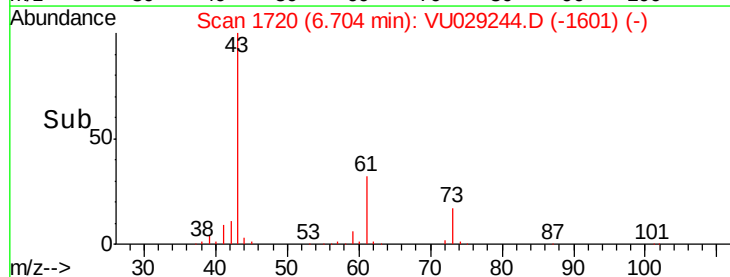
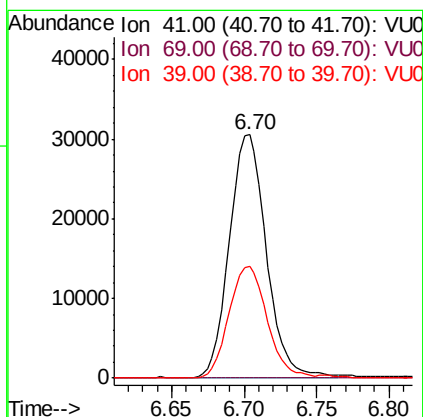
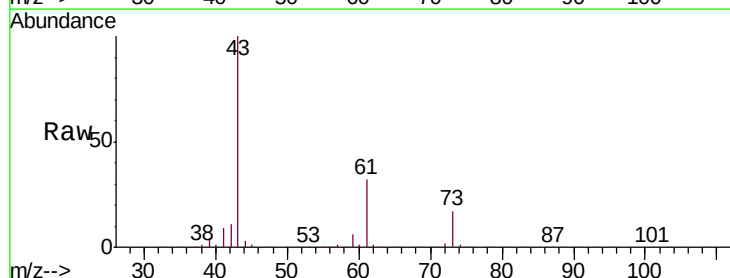
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#04

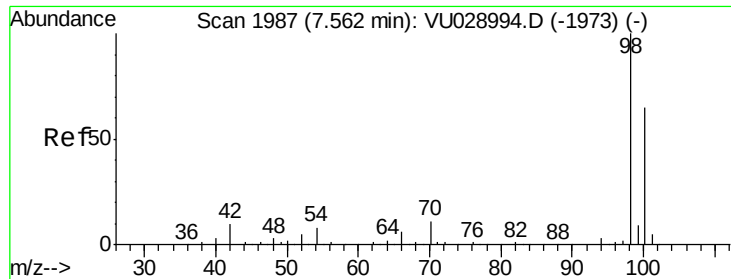
Tgt Ion: 63 Resp: 677
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#48
 Methyl methacrylate
 Concen: 33.472 ug/l
 RT: 6.70 min Scan# 1720
 Delta R.T. 0.08 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

Tgt Ion: 41 Resp: 54414
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.6 110.4#
 39 47.1 39.6 59.4

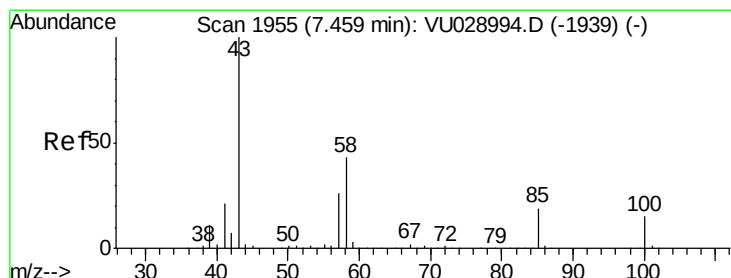
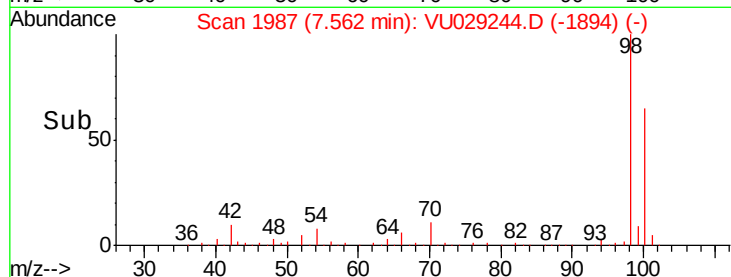
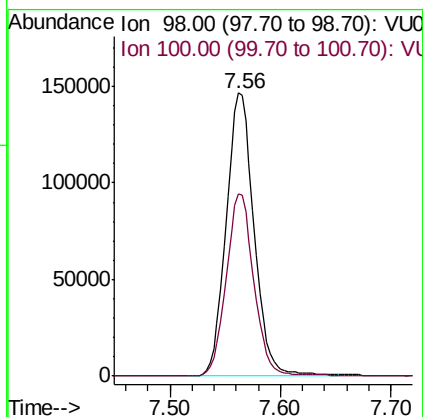
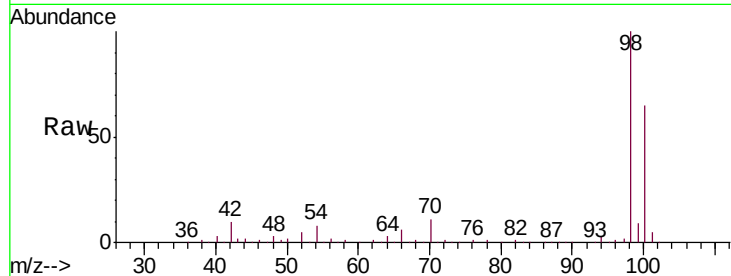




#50
Toluene-d8
Concen: 50.741 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

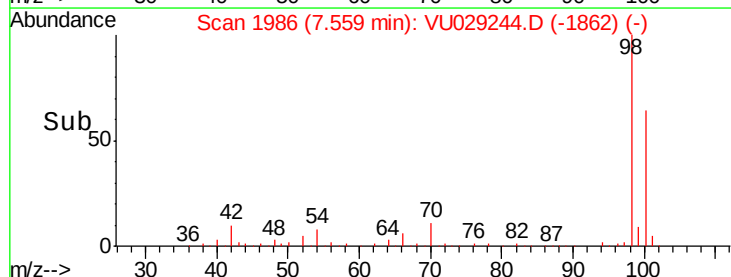
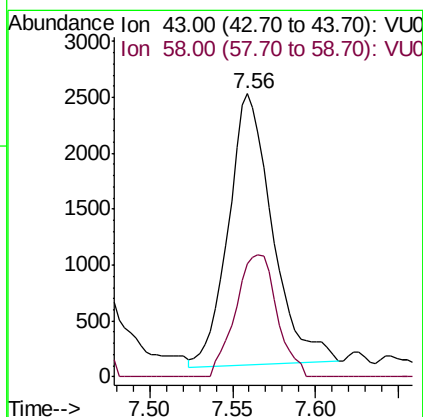
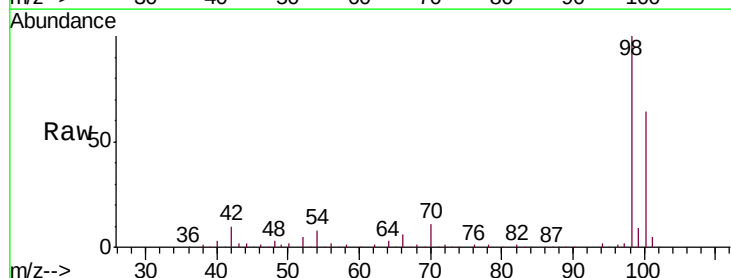
Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#04

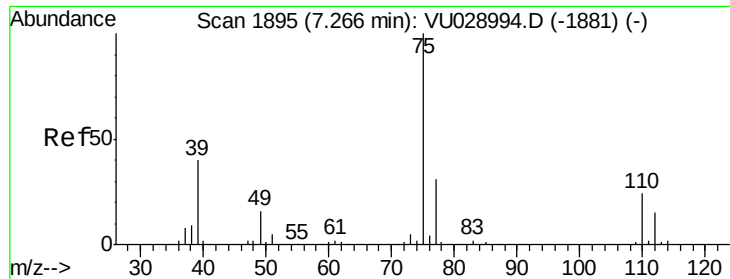
Tgt Ion: 98 Resp: 257587
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 1.973 ug/l
RT: 7.56 min Scan# 1986
Delta R.T. 0.10 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Tgt Ion: 43 Resp: 4483
Ion Ratio Lower Upper
43 100
58 42.4 33.9 50.9

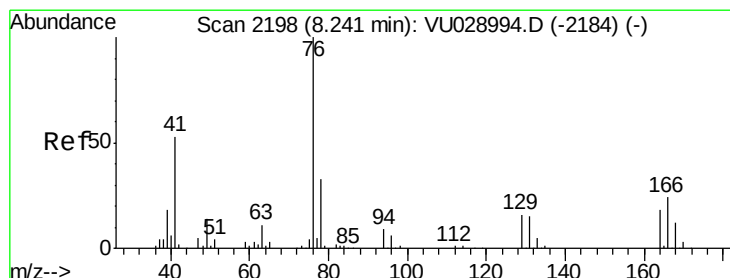
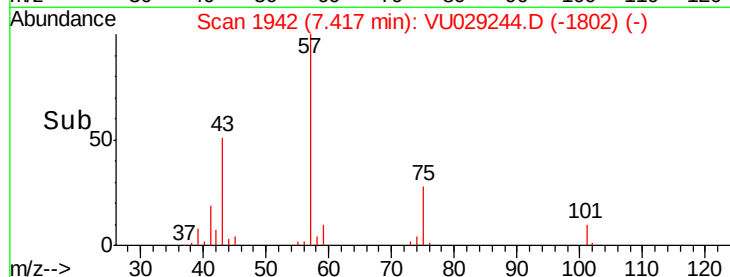
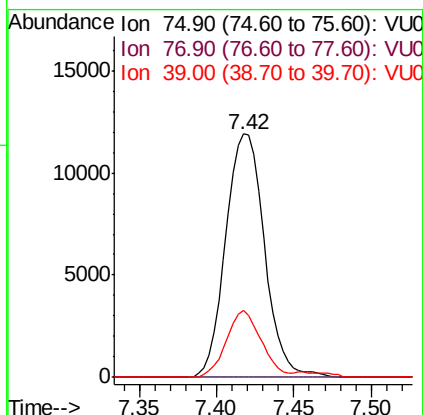
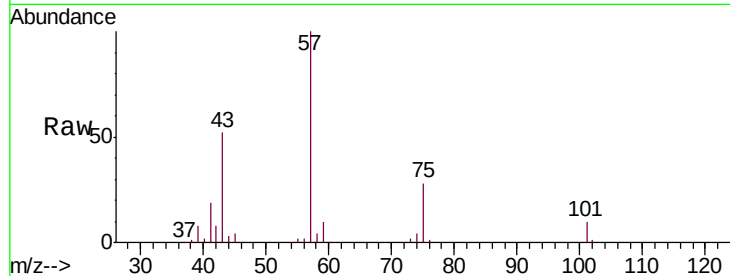




#54
 cis-1,3-Dichloropropene
 Concen: 8.315 ug/l
 RT: 7.42 min Scan# 1942
 Delta R.T. 0.15 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

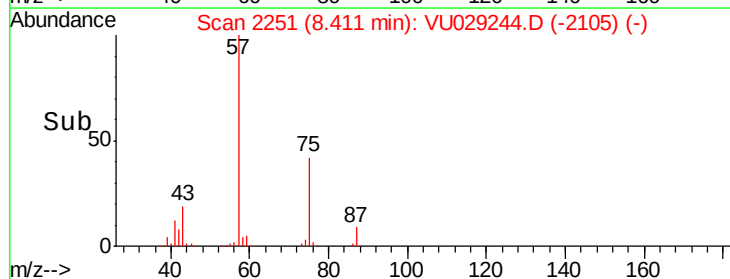
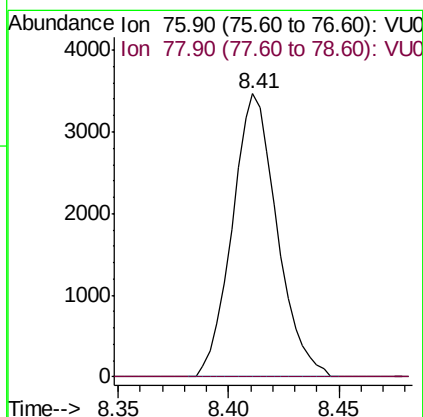
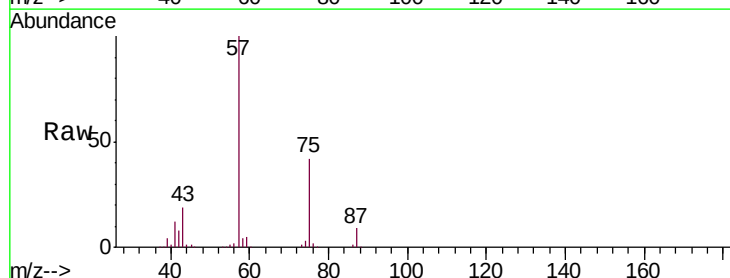
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#04

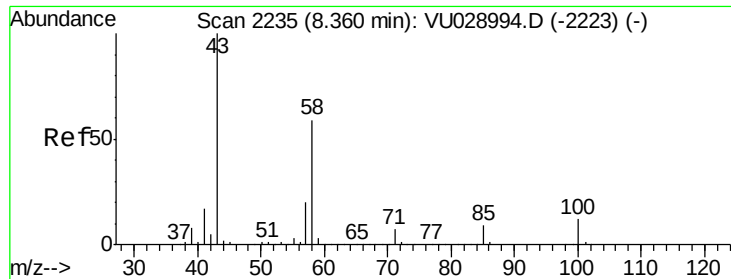
Tgt Ion: 75 Resp: 20749
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 27.5 32.2 48.4#



#57
 1,3-Dichloropropane
 Concen: 1.895 ug/l
 RT: 8.41 min Scan# 2251
 Delta R.T. 0.17 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

Tgt Ion: 76 Resp: 4892
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

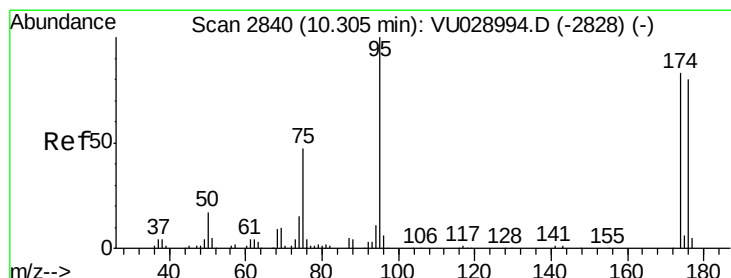
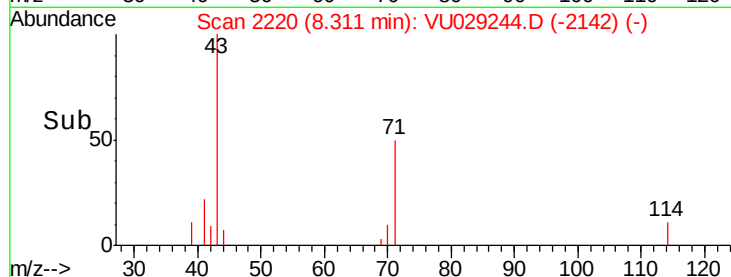
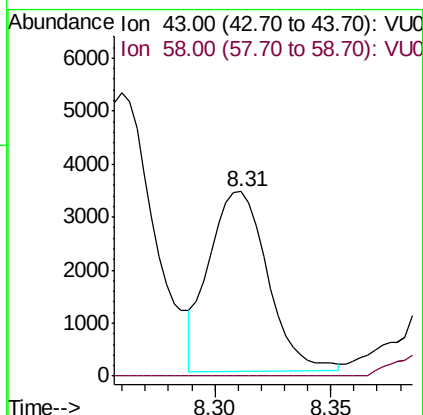
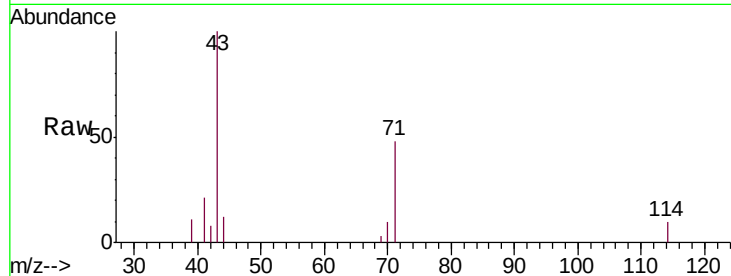




#59
2-Hexanone
Concen: 3.338 ug/l
RT: 8.31 min Scan# 2220
Delta R.T. -0.05 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

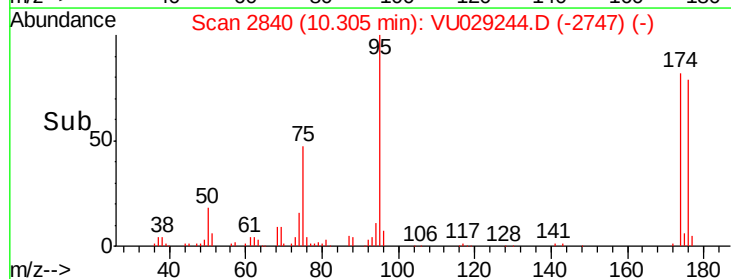
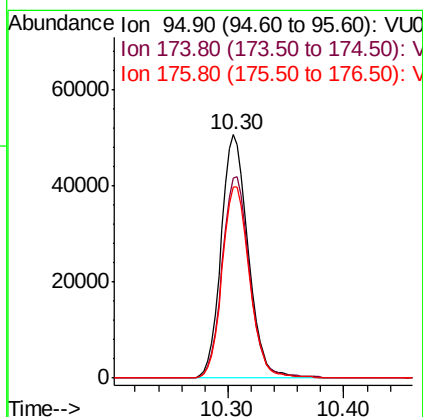
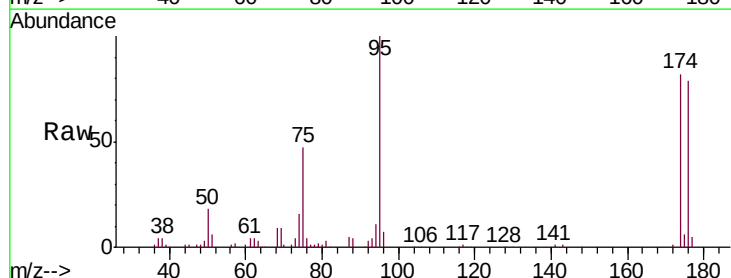
Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#04

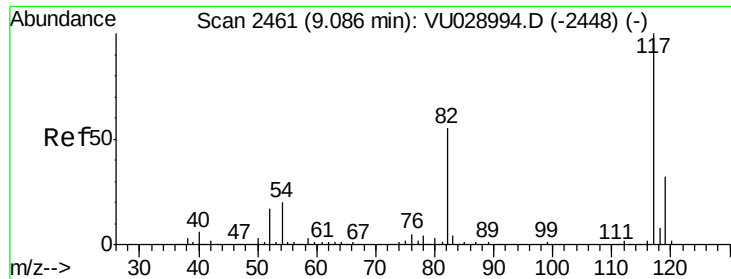
Tgt Ion: 43 Resp: 5954
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 44.813 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. -0.00 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Tgt Ion: 95 Resp: 81758
Ion Ratio Lower Upper
95 100
174 83.6 0.0 170.6
176 79.7 0.0 165.0

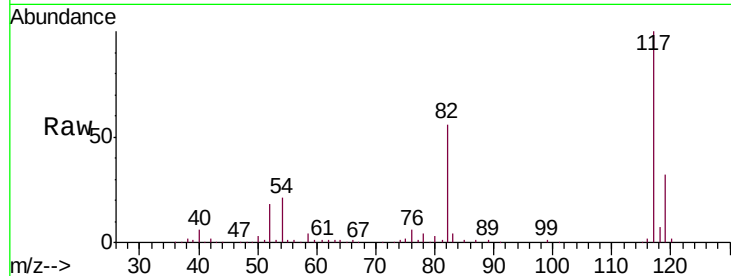




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. -0.00 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#04

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.2	43.9	65.9
119	31.7	26.0	39.0

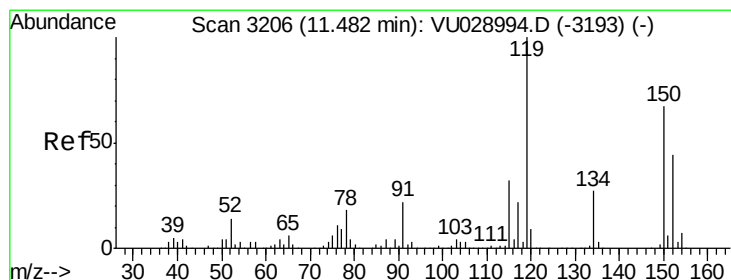
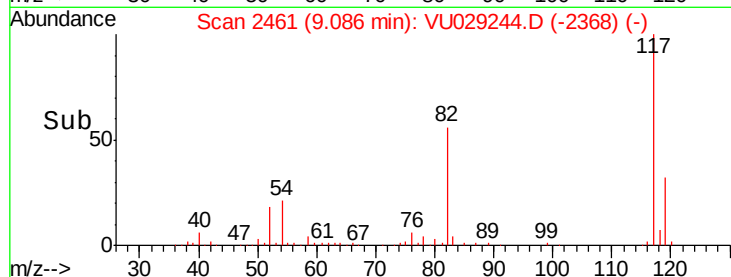
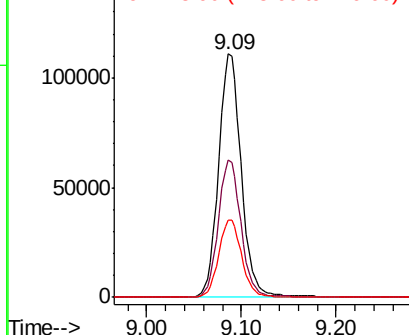


Abundance

Ion 116.90 (116.60 to 117.60): V

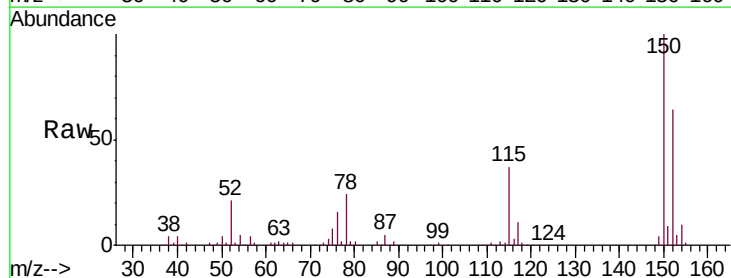
Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. -0.00 min
Lab File: VU029244.D
Acq: 21 Jan 2019 13:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.8	40.1	120.3
150	158.4	0.0	345.2

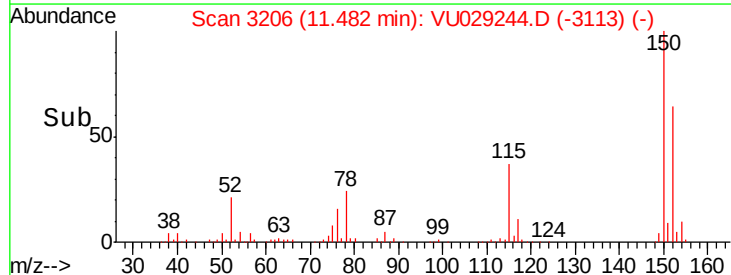
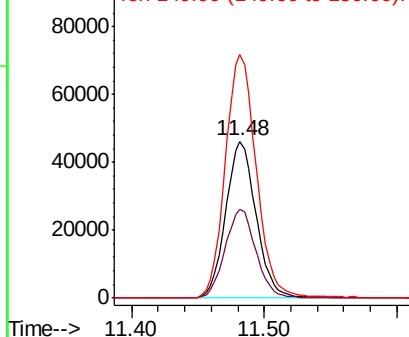


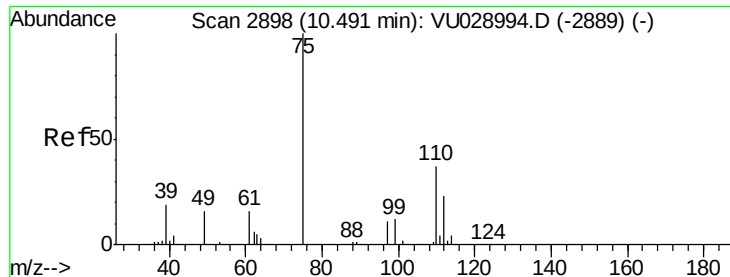
Abundance

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

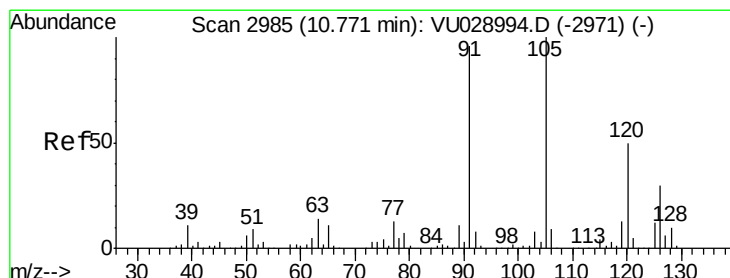
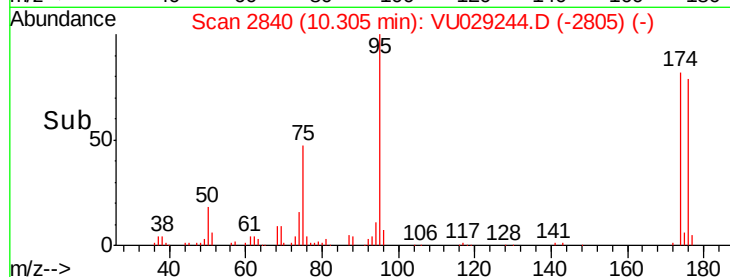
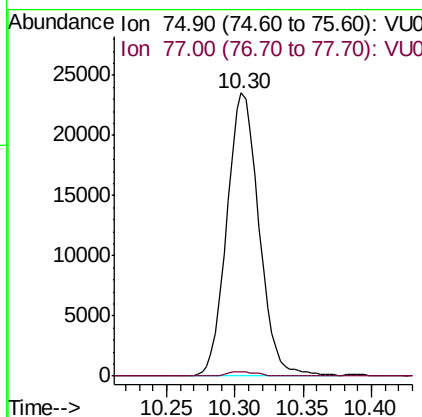
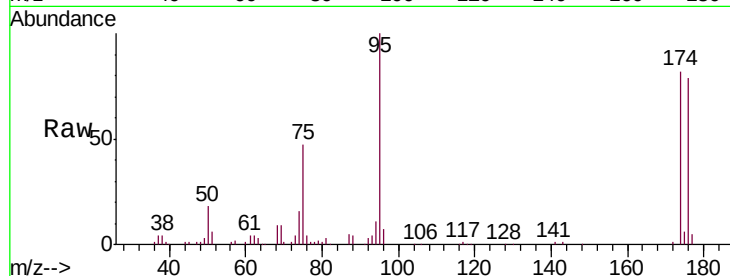




#76
 1,2,3-Trichloropropane
 Concen: 21.458 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.19 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

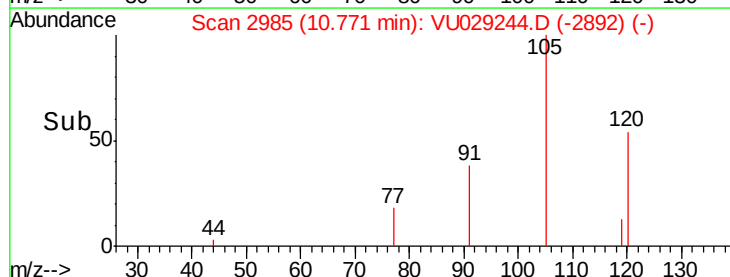
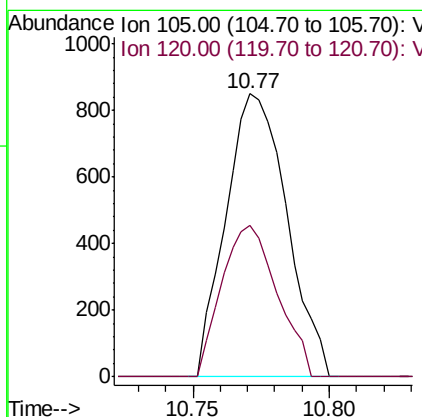
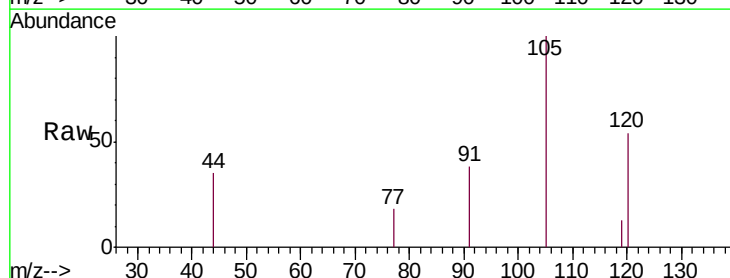
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#04

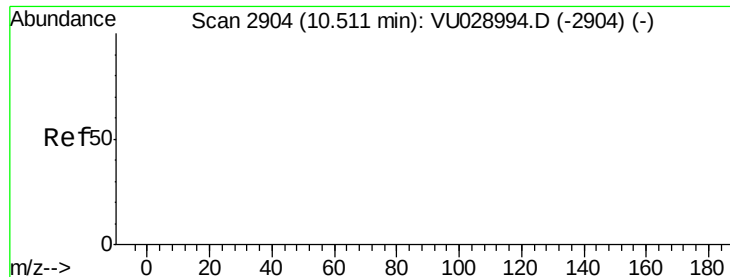
Tgt Ion: 75 Resp: 38660
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.9 62.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.290 ug/l
 RT: 10.77 min Scan# 2985
 Delta R.T. -0.00 min
 Lab File: VU029244.D
 Acq: 21 Jan 2019 13:20

Tgt Ion: 105 Resp: 1318
 Ion Ratio Lower Upper
 105 100
 120 48.9 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 55.340 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029244.D

Acq: 21 Jan 2019 13:20

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#04

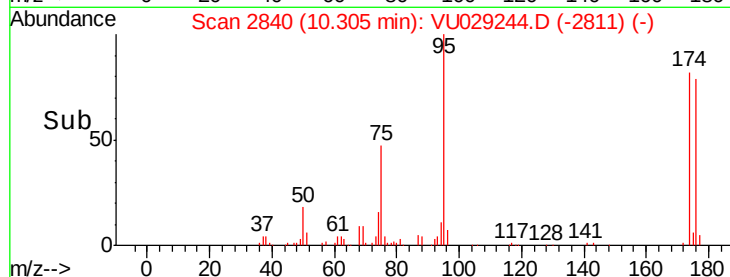
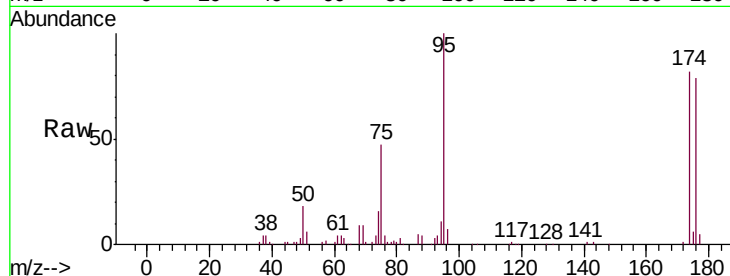
Tgt Ion: 75 Resp: 38660

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

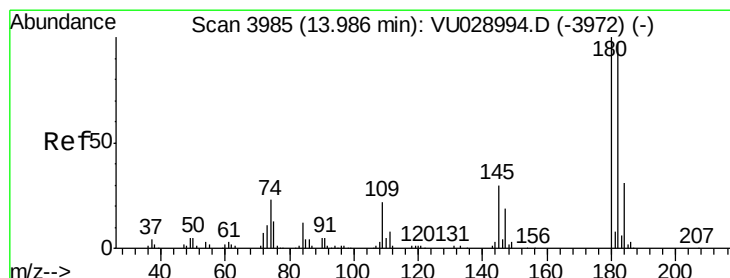
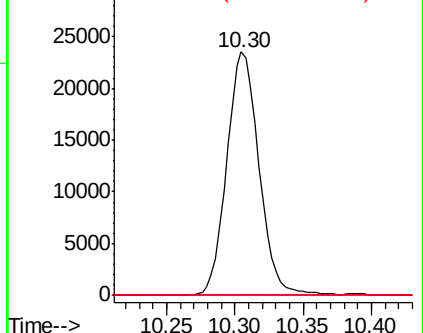
89 0.0 0.0 0.0



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



#96

1,2,3-Trichlorobenzene

Concen: 0.904 ug/l

RT: 13.99 min Scan# 3987

Delta R.T. 0.01 min

Lab File: VU029244.D

Acq: 21 Jan 2019 13:20

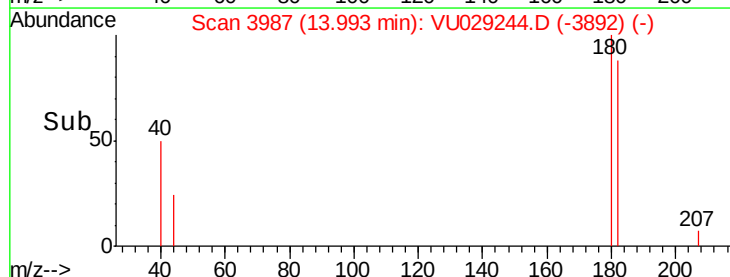
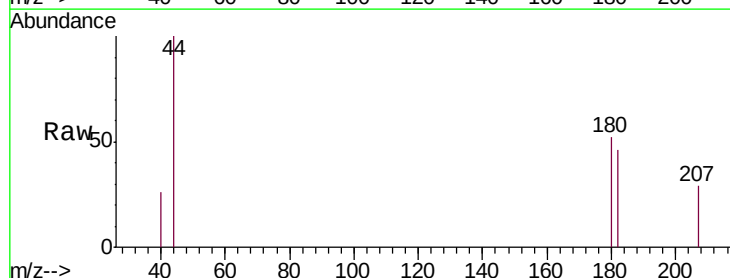
Tgt Ion: 180 Resp: 226

Ion Ratio Lower Upper

180 100

182 86.7 48.1 144.3

145 0.0 14.8 44.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

