

Data File : VU029249.D
Acq On : 21 Jan 2019 15:20
Operator : JC/SP
Sample : PB116506ZHE#09
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#09

Quant Time: Jan 22 01:11:33 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	112989	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	198723	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	188150	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	73622	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	76842	55.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.02%	
35) Dibromofluoromethane	4.88	113	67066	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
50) Toluene-d8	7.56	98	257360	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
62) 4-Bromofluorobenzene	10.30	95	79842	43.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.38%	

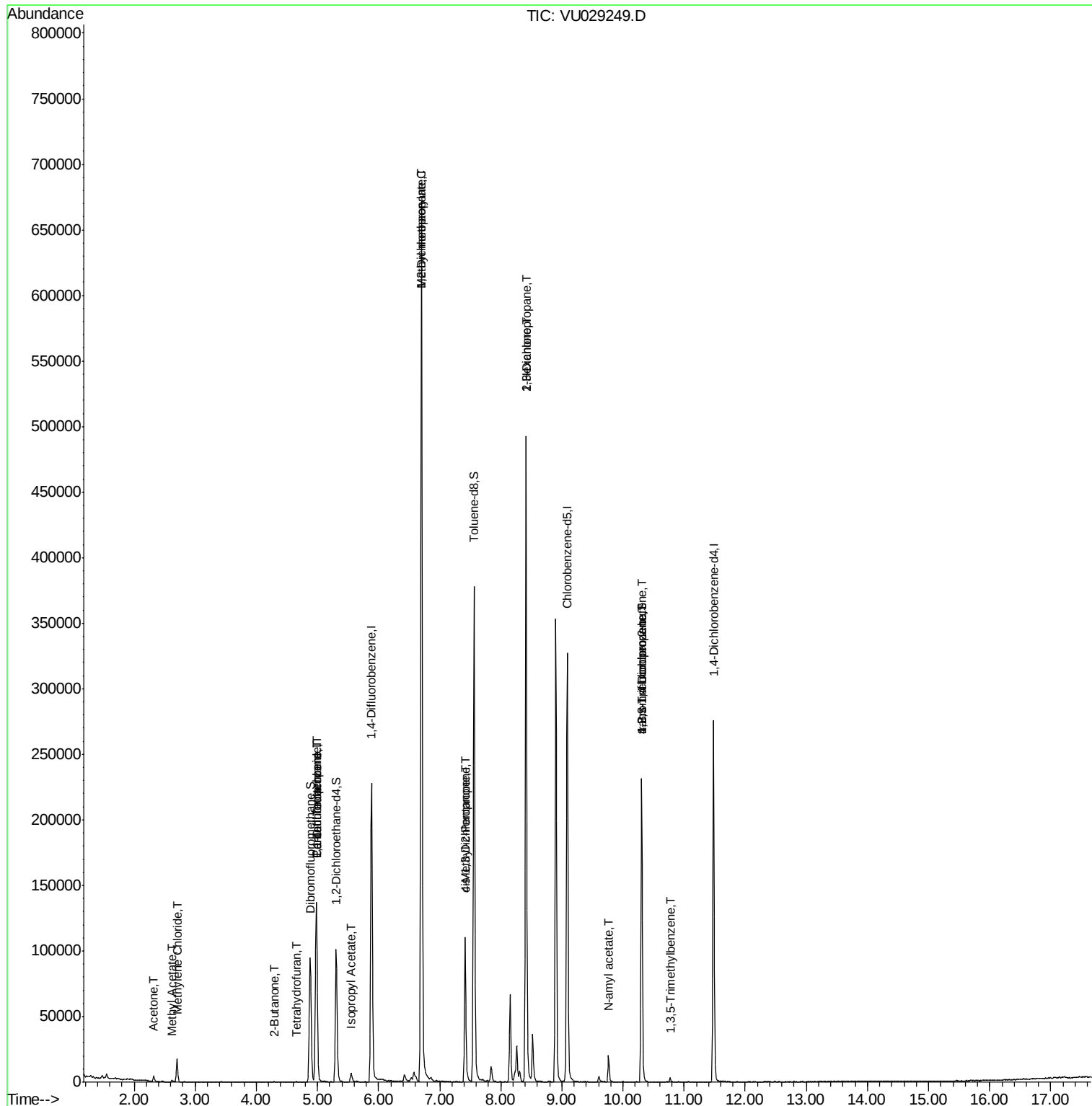
Target Compounds			Qvalue			
3) Chloromethane	1.33	50	653	Below Cal		97
5) Bromomethane	1.63	94	41	Below Cal	#	2
16) Acetone	2.32	43	4887	5.554	ug/l	91
17) Carbon Disulfide	2.48	76	94	Below Cal	#	75
18) Methyl Acetate	2.62	43	1668	0.815	ug/l #	80
20) Methylene Chloride	2.70	84	7665	5.131	ug/l	97
25) 2-Butanone	4.29	43	281	0.236	ug/l #	47
29) Tetrahydrofuran	4.66	42	280	0.388	ug/l #	37
31) Cyclohexane	4.98	56	1917	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	8536	4.297	ug/l #	46
38) Carbon Tetrachloride	4.98	117	10048	6.065	ug/l #	16
43) Isopropyl Acetate	5.55	43	8300	2.482	ug/l	94
45) 1,2-Dichloropropane	6.70	63	827	0.505	ug/l #	43
48) Methyl methacrylate	6.70	41	55886	34.316	ug/l #	37
51) 4-Methyl-2-Pentanone	7.42	43	39188	17.217	ug/l #	44
54) cis-1,3-Dichloropropene	7.42	75	20697	8.280	ug/l #	61
57) 1,3-Dichloropropane	8.41	76	5030	1.945	ug/l #	42
59) 2-Hexanone	8.41	43	66771	37.371	ug/l #	48
74) N-amyl acetate	9.76	43	6347	2.703	ug/l #	48
76) 1,2,3-Trichloropropane	10.30	75	37860	20.988	ug/l #	36
80) 1,3,5-Trimethylbenzene	10.77	105	2040	0.448	ug/l	85
81) trans-1,4-Dichloro-2-buten	10.30	75	37860	54.130	ug/l #	100

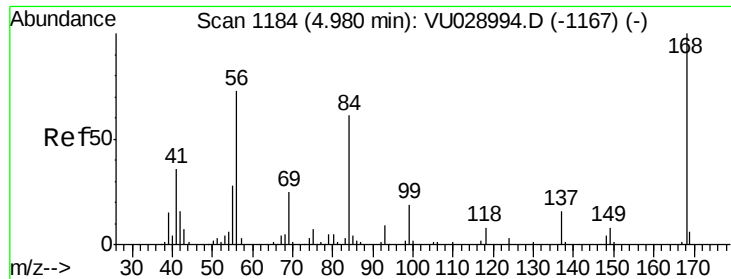
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU029249.D

Acq: 21 Jan 2019 15:20

Instrument :

MSVOA_U

ClientSampleId :

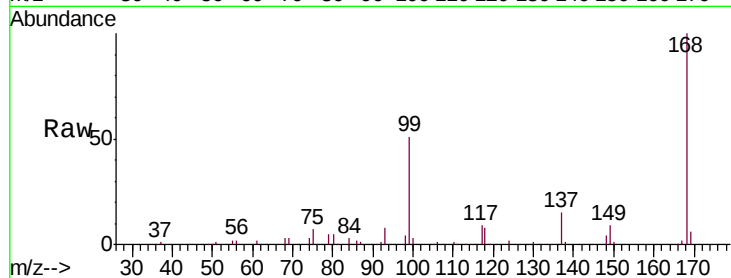
PB116506ZHE#09

Tgt Ion:168 Resp: 112989

Ion Ratio Lower Upper

168 100

99 51.1 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) (-)

4.98

50000

40000

30000

20000

10000

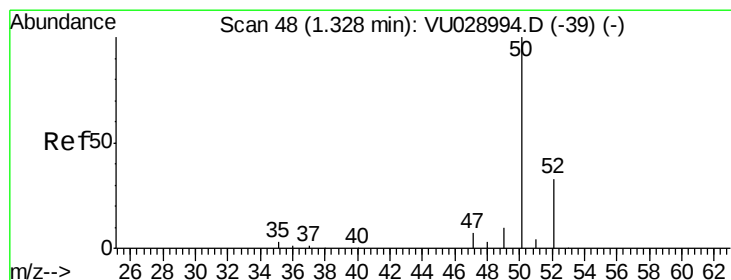
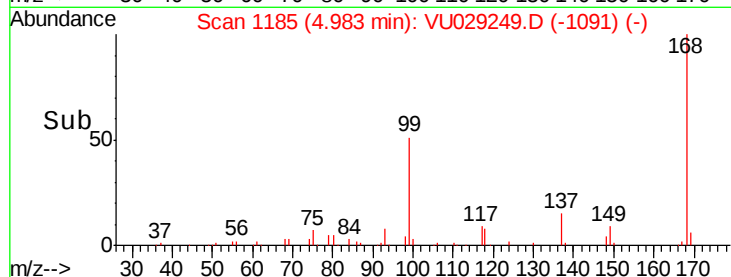
0

4.90

5.00

5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 49

Delta R.T. 0.00 min

Lab File: VU029249.D

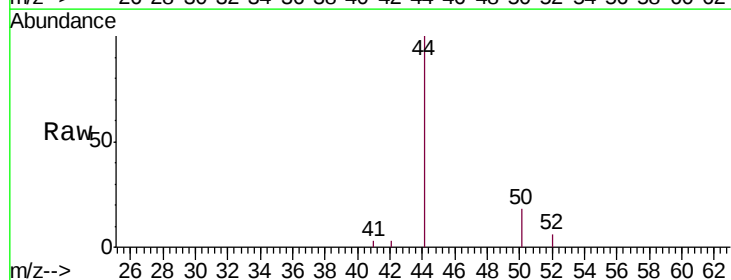
Acq: 21 Jan 2019 15:20

Tgt Ion: 50 Resp: 653

Ion Ratio Lower Upper

50 100

52 34.3 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) (-)

1.33

600

400

200

0

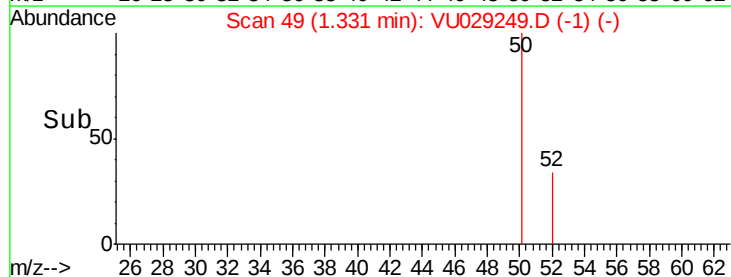
1.30

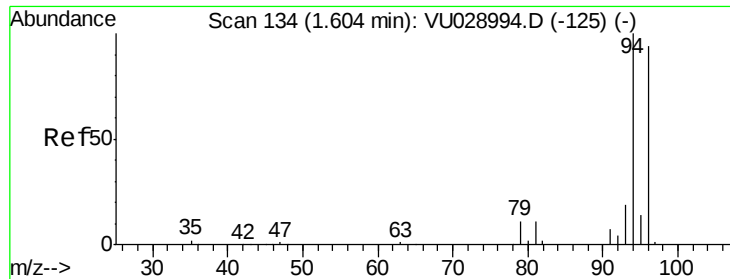
1.32

1.34

1.36

Time-->

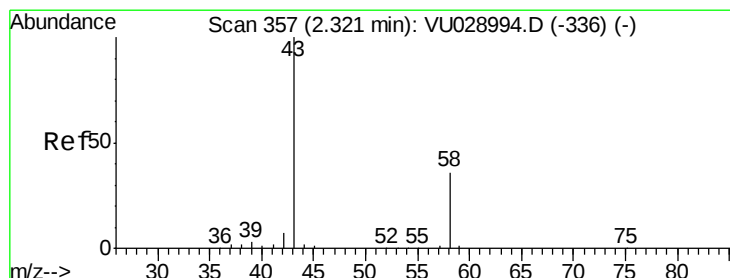
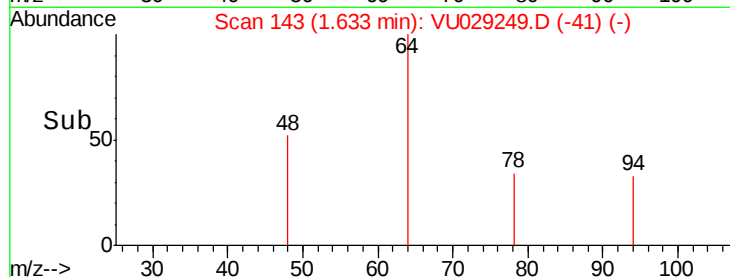
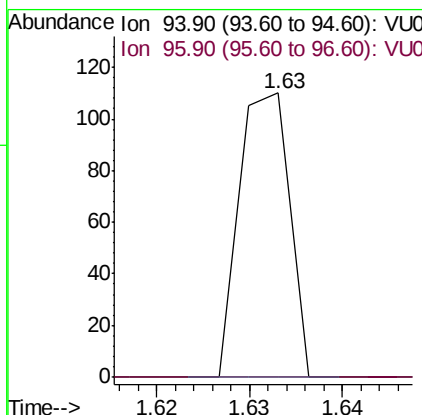
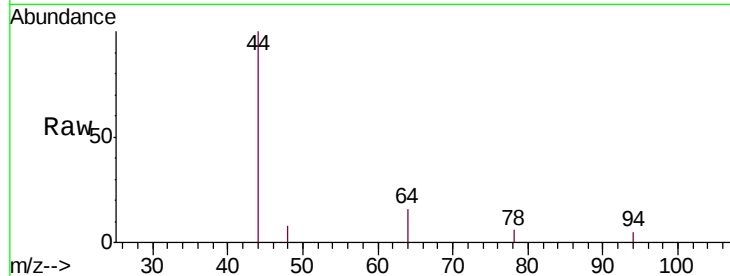




#5
 Bromomethane
 Concen: Below Cal
 RT: 1.63 min Scan# 143
 Delta R.T. 0.03 min
 Lab File: VU029249.D
 Acq: 21 Jan 2019 15:20

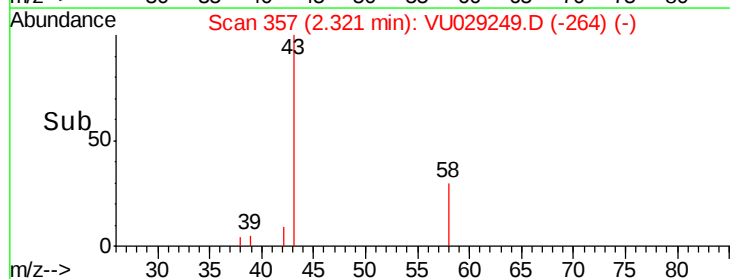
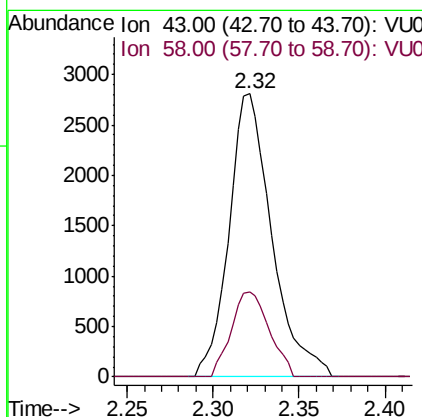
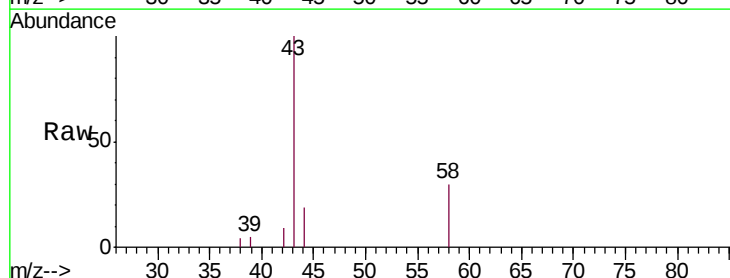
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#09

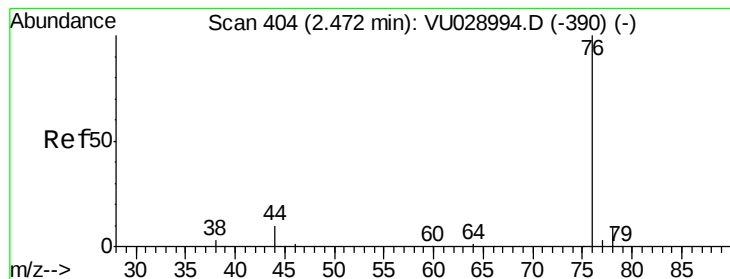
Tgt Ion: 94 Resp: 41
 Ion Ratio Lower Upper
 94 100
 96 0.0 75.5 113.3#



#16
 Acetone
 Concen: 5.554 ug/l
 RT: 2.32 min Scan# 357
 Delta R.T. 0.00 min
 Lab File: VU029249.D
 Acq: 21 Jan 2019 15:20

Tgt Ion: 43 Resp: 4887
 Ion Ratio Lower Upper
 43 100
 58 30.2 28.6 42.8





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 406

Delta R.T. 0.01 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

Instrument :

MSVOA_U

ClientSampleId :

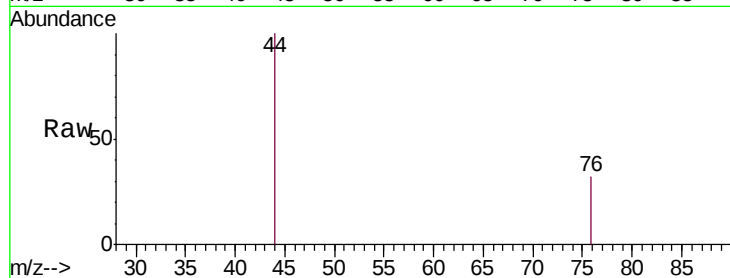
PB116506ZHE#09

Tgt Ion: 76 Resp: 94

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU028994.D (-390) (-)

Ion 77.90 (77.60 to 78.60): VU028994.D (-390) (-)

2.48

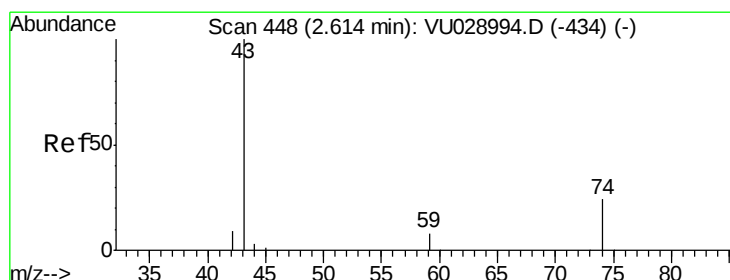
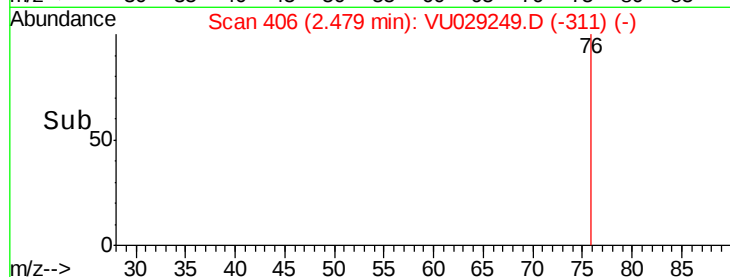
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 0.815 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.01 min

Lab File: VU029249.D

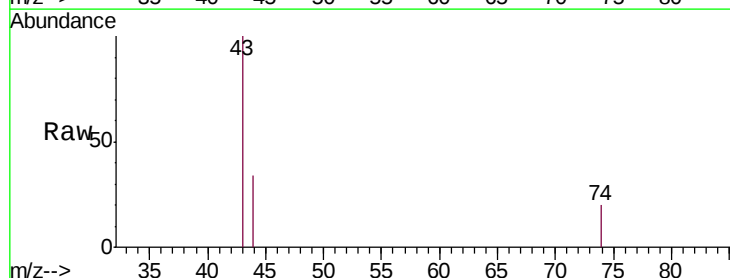
Acq: 21 Jan 2019 15:20

Tgt Ion: 43 Resp: 1668

Ion Ratio Lower Upper

43 100

74 14.7 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VU028994.D (-434) (-)

Ion 74.00 (73.70 to 74.70): VU028994.D (-434) (-)

2.62

1000

800

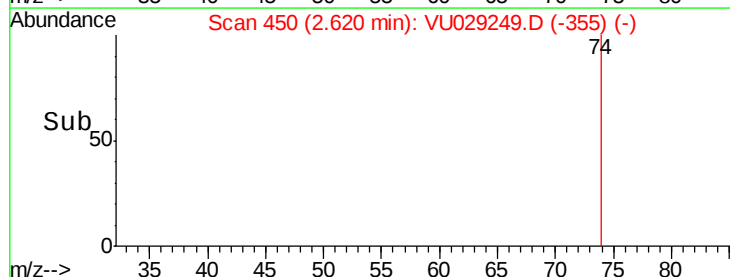
600

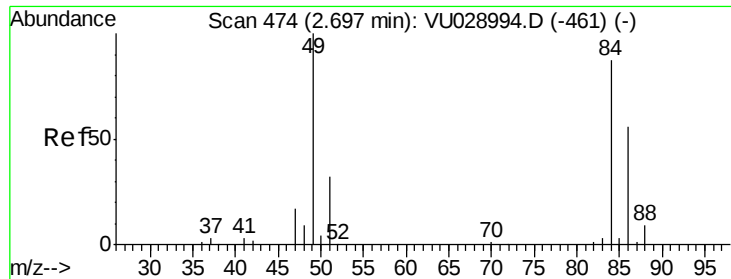
400

200

0

Time-->

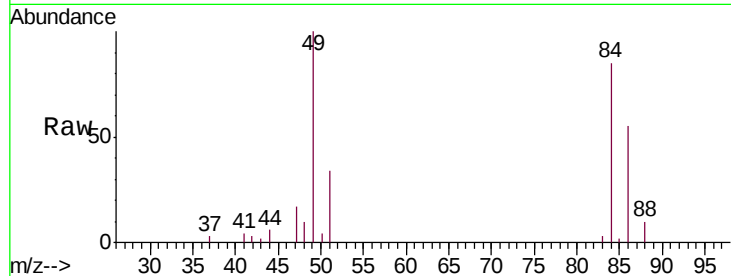




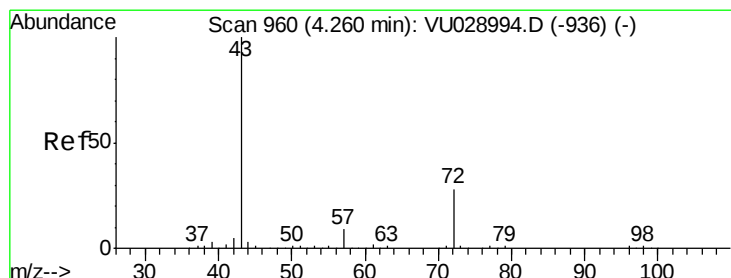
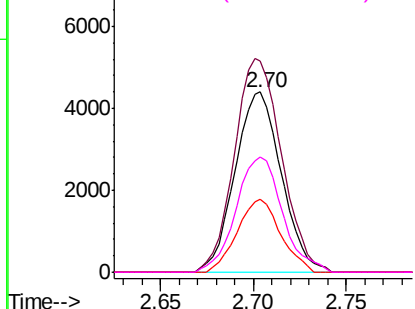
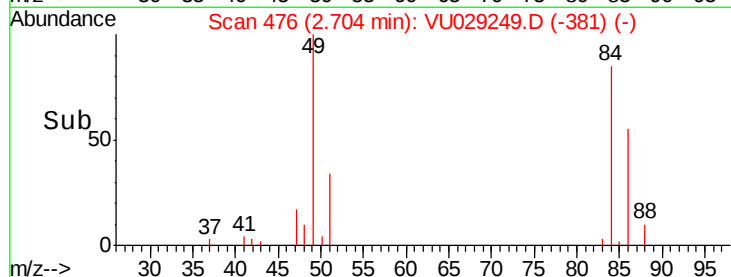
#20
Methylene Chloride
Concen: 5.131 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.01 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#09

Tgt Ion:	84	Resp:	7665
Ion	Ratio	Lower	Upper
84	100		
49	117.5	91.9	137.9
51	40.2	29.2	43.8
86	64.2	51.8	77.6

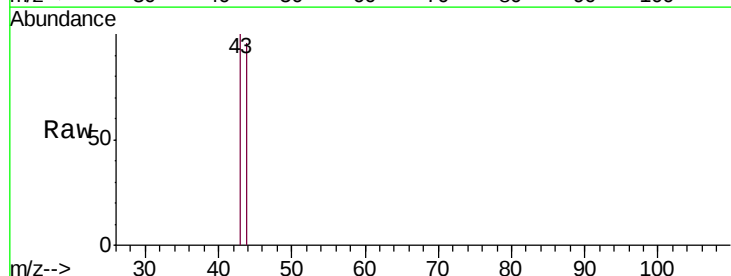


Abundance Ion 83.90 (83.60 to 84.60): VU0
Ion 48.90 (48.60 to 49.60): VU0
Ion 50.90 (50.60 to 51.60): VU0
Ion 85.90 (85.60 to 86.60): VU0

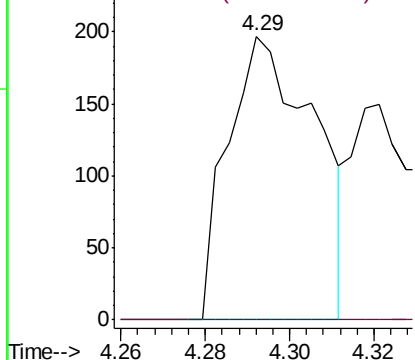
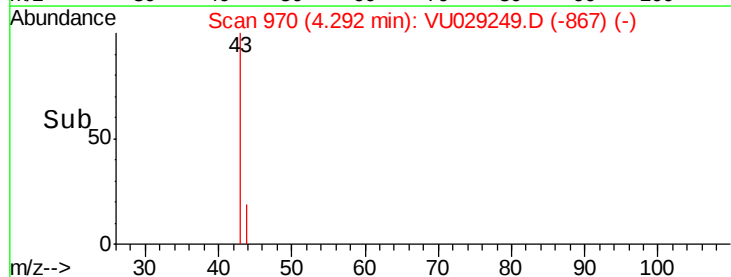


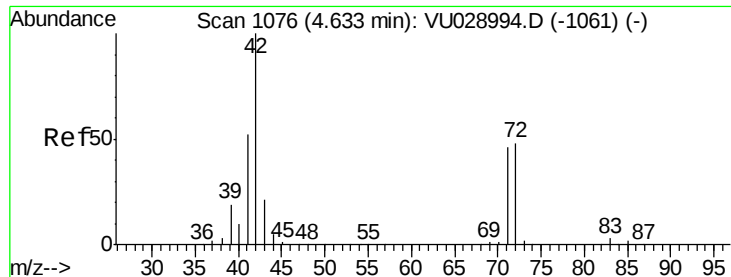
#25
2-Butanone
Concen: 0.236 ug/l
RT: 4.29 min Scan# 970
Delta R.T. 0.03 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

Tgt Ion:	43	Resp:	281
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: 0.388 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.03 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#09

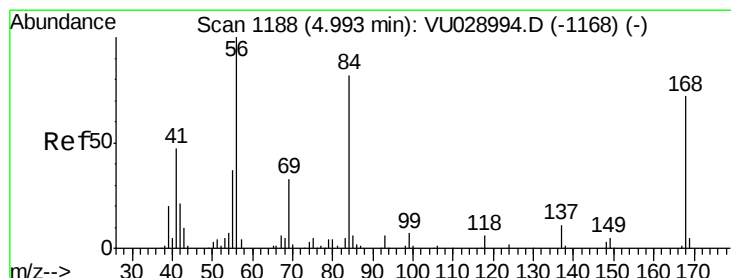
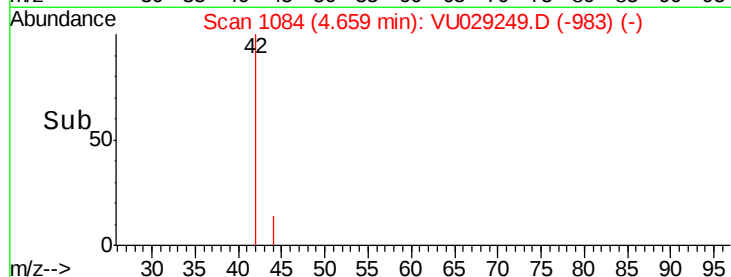
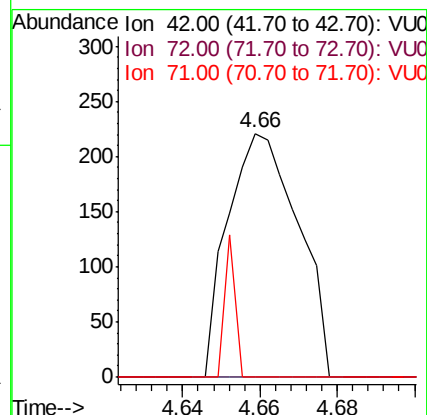
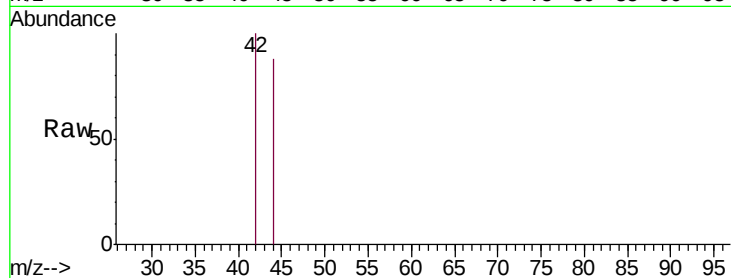
Tgt Ion: 42 Resp: 280

Ion Ratio Lower Upper

42 100

72 0.0 38.3 57.5#

71 8.9 36.1 54.1#



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

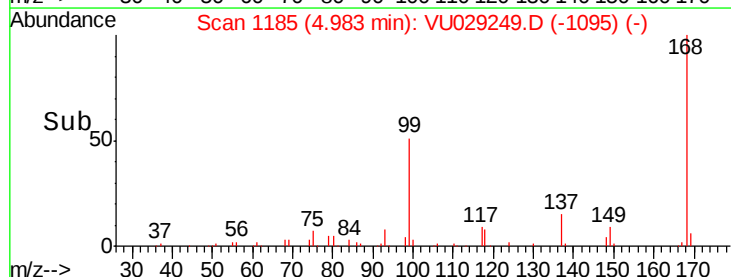
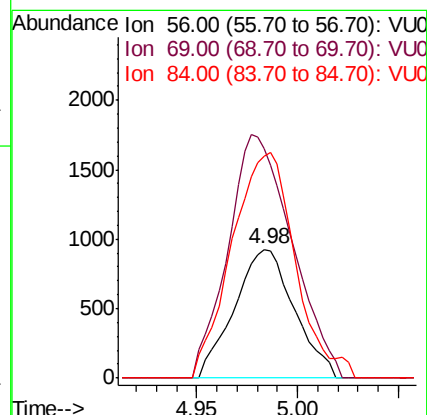
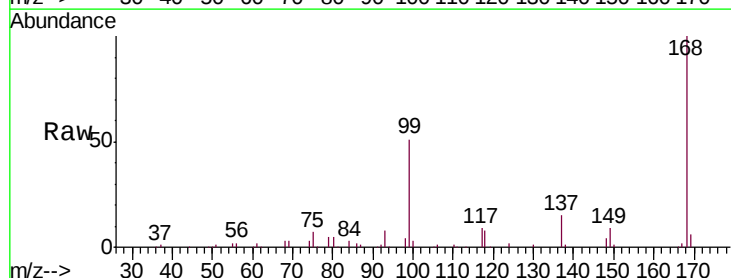
Tgt Ion: 56 Resp: 1917

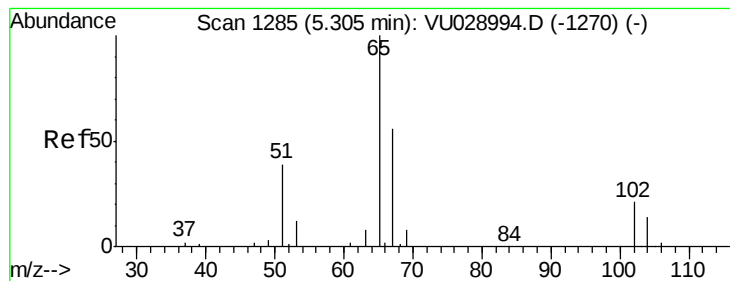
Ion Ratio Lower Upper

56 100

69 178.7 26.7 40.1#

84 172.7 65.7 98.5#





#33

1,2-Dichloroethane-d4

Concen: 55.014 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

Instrument :

MSVOA_U

ClientSampleId :

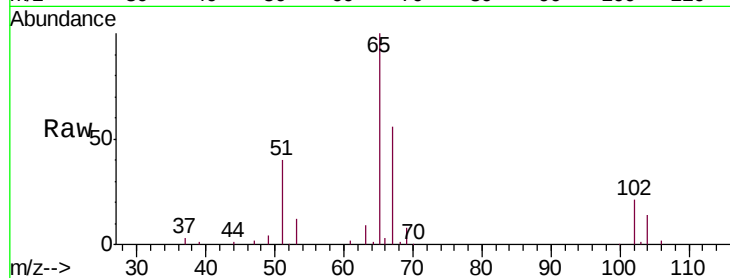
PB116506ZHE#09

Tgt Ion: 65 Resp: 76842

Ion Ratio Lower Upper

65 100

67 55.5 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

5.31

40000

30000

20000

10000

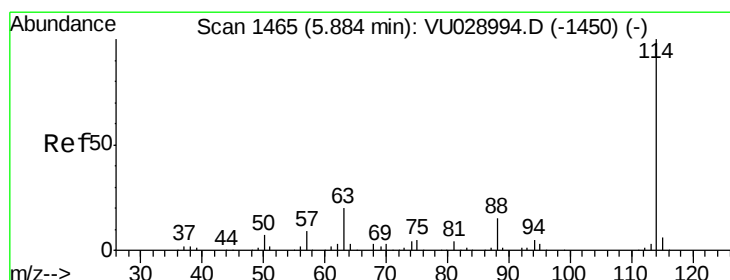
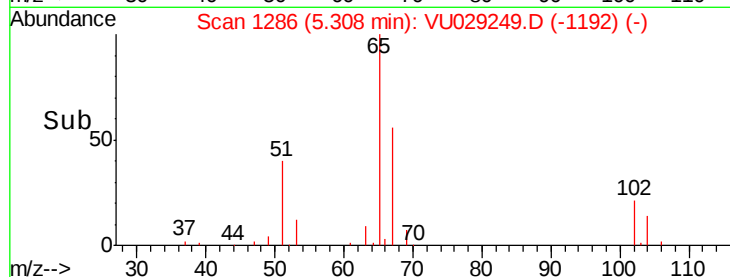
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Time-->

5.20

5.30

5.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.88 min Scan# 1465

Delta R.T. 0.00 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

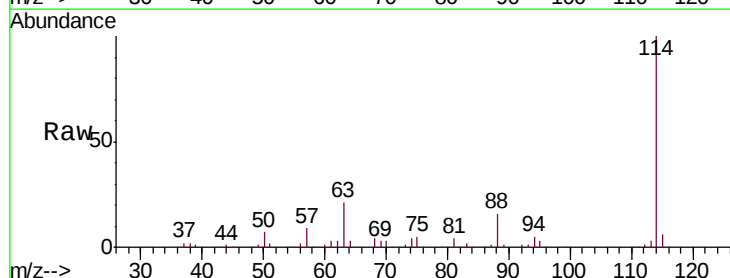
Tgt Ion: 114 Resp: 198723

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.2

88 15.6 0.0 30.4



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

5.88

100000

50000

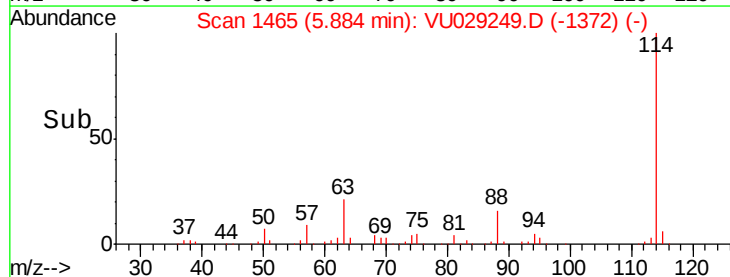
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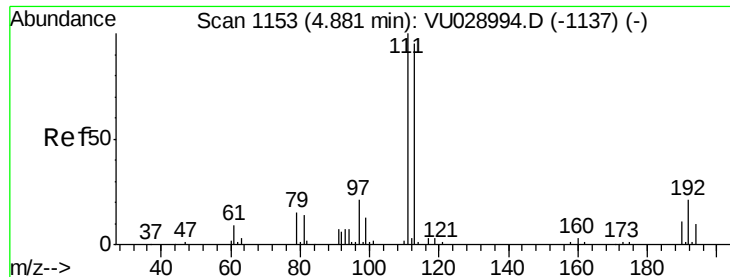
Time-->

5.80

5.90

6.00

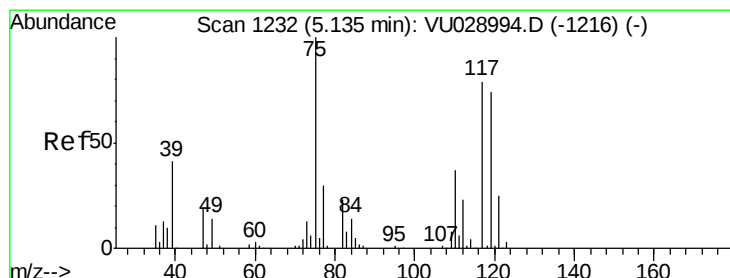
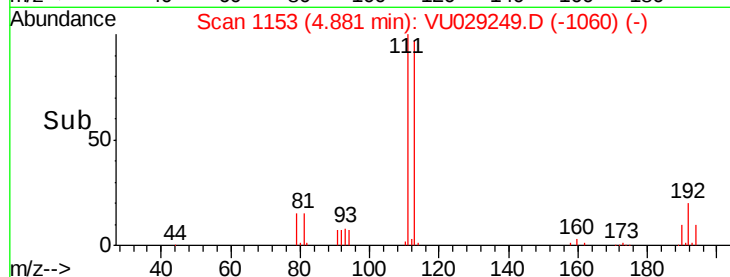
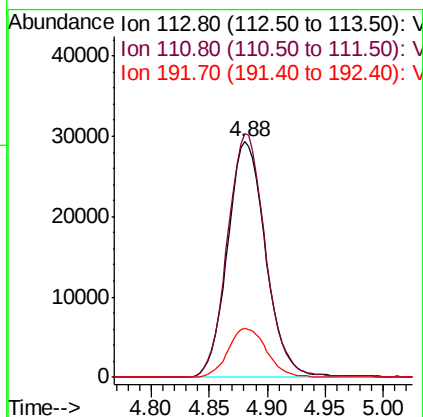
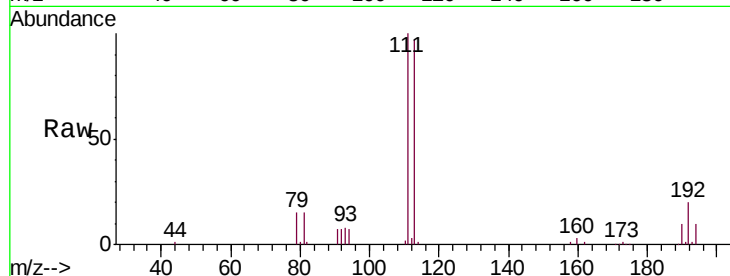




#35
 Dibromofluoromethane
 Concen: 52.063 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. 0.00 min
 Lab File: VU029249.D
 Acq: 21 Jan 2019 15:20

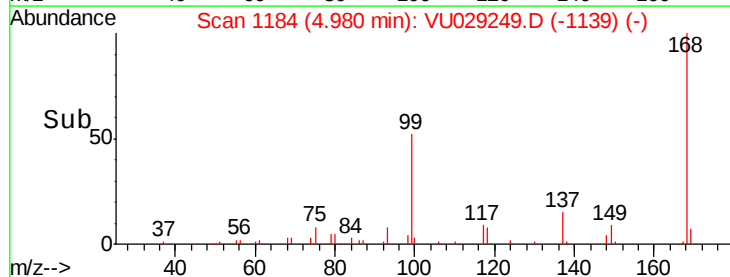
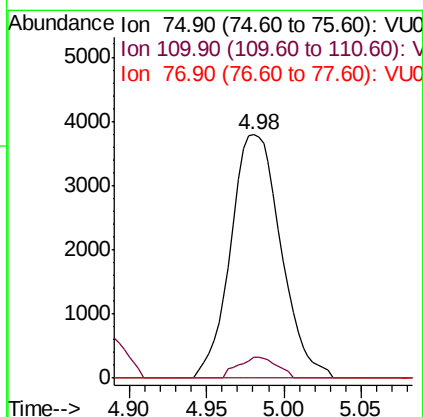
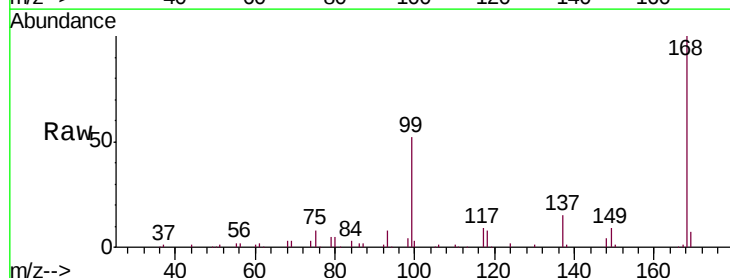
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#09

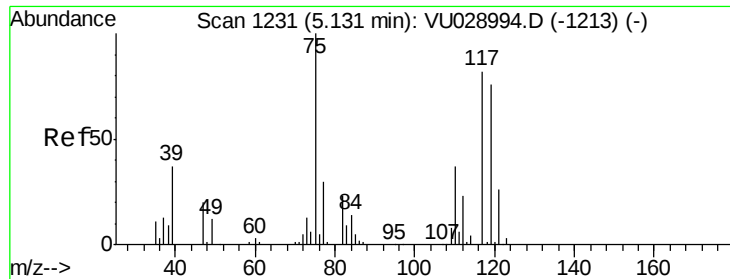
Tgt Ion:113 Resp: 67066
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.4 122.2
 192 21.1 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 4.297 ug/l
 RT: 4.98 min Scan# 1184
 Delta R.T. -0.15 min
 Lab File: VU029249.D
 Acq: 21 Jan 2019 15:20

Tgt Ion: 75 Resp: 8536
 Ion Ratio Lower Upper
 75 100
 110 6.6 18.4 55.4#
 77 0.0 25.1 37.7#

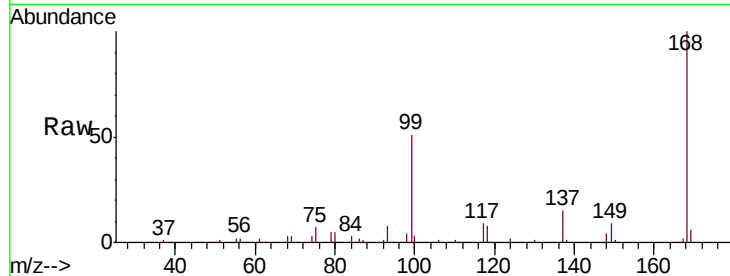




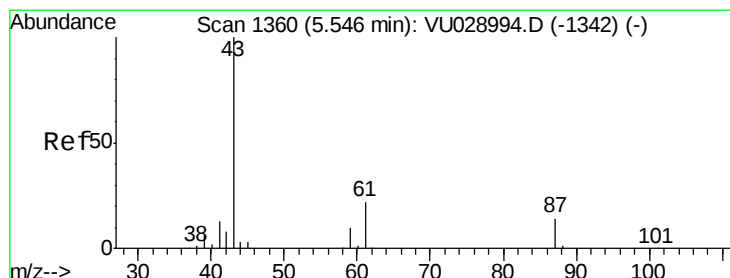
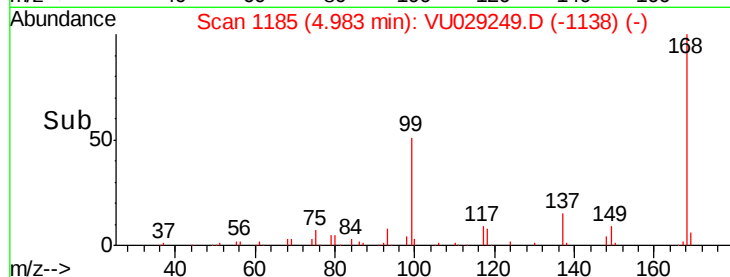
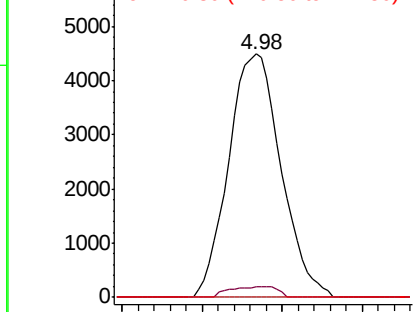
#38
Carbon Tetrachloride
Concen: 6.065 ug/l
RT: 4.98 min Scan# 1185
Delta R.T. -0.15 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#09

Tgt Ion: 117 Resp: 10048
Ion Ratio Lower Upper
117 100
119 4.2 74.6 111.8#
121 0.0 25.0 37.6#

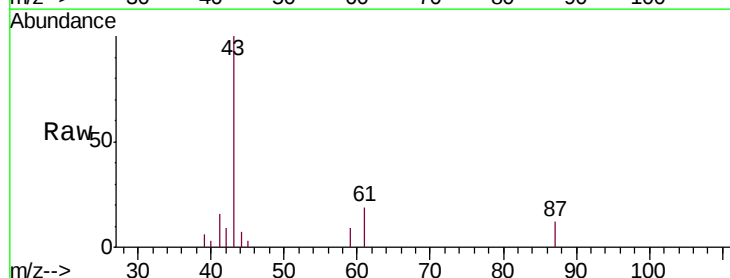


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

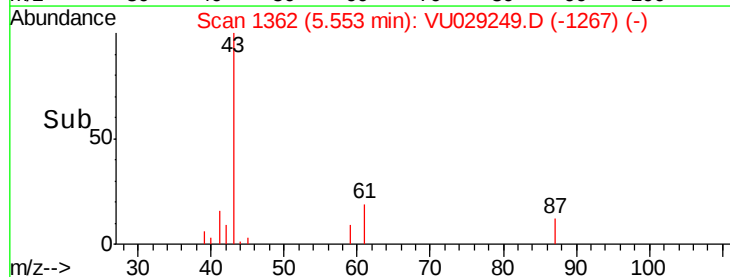
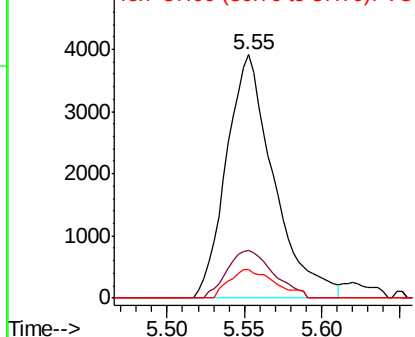


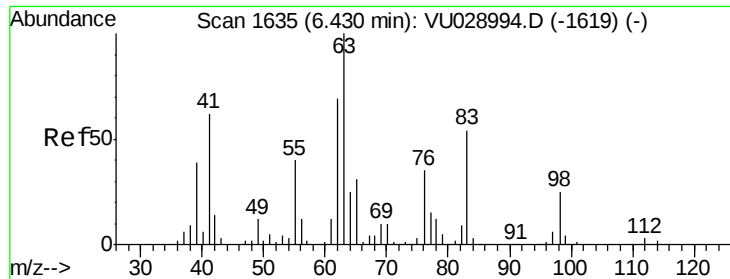
#43
Isopropyl Acetate
Concen: 2.482 ug/l
RT: 5.55 min Scan# 1362
Delta R.T. 0.01 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

Tgt Ion: 43 Resp: 8300
Ion Ratio Lower Upper
43 100
61 19.2 17.8 26.6
87 11.4 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 87.00 (86.70 to 87.70): VU0

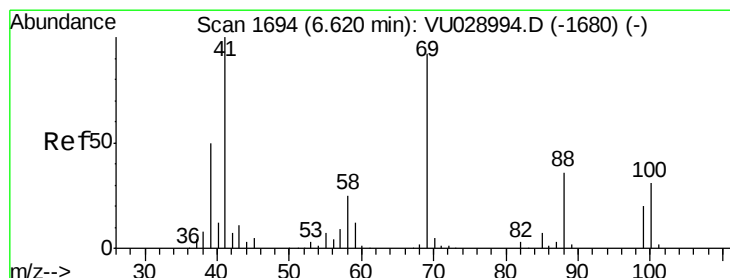
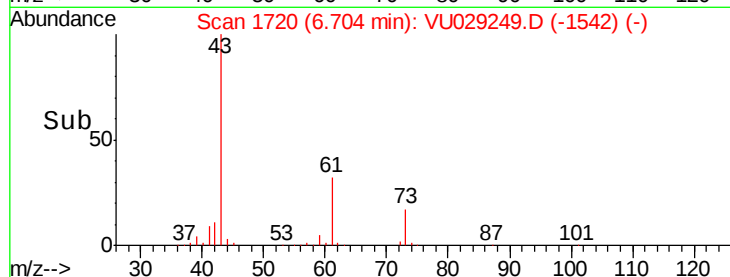
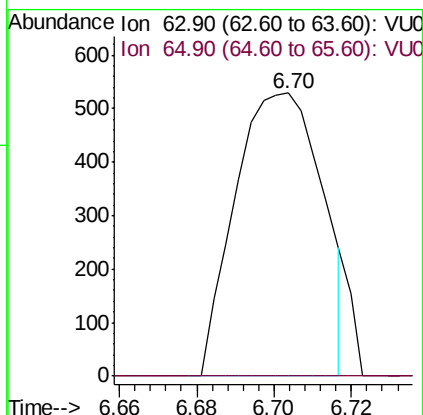
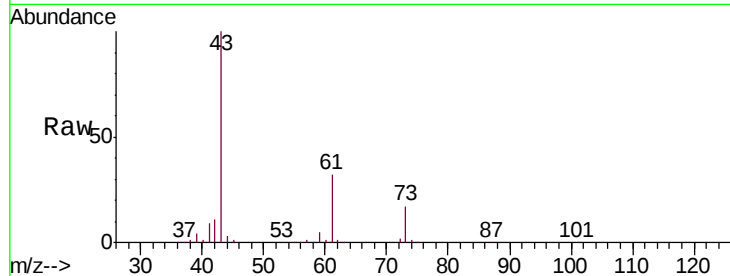




#45
 1,2-Dichloropropane
 Concen: 0.505 ug/l
 RT: 6.70 min Scan# 1720
 Delta R.T. 0.27 min
 Lab File: VU029249.D
 Acq: 21 Jan 2019 15:20

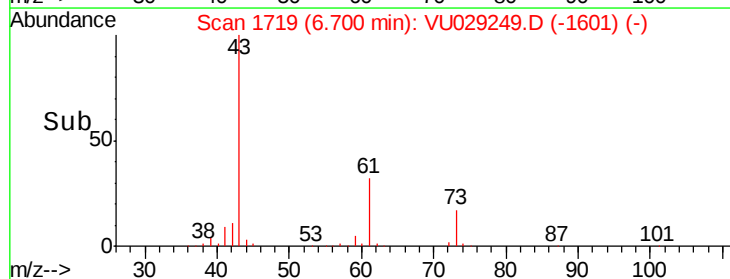
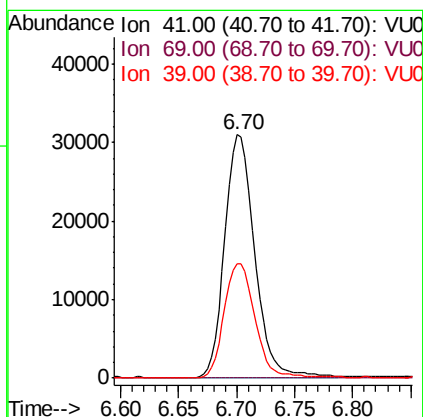
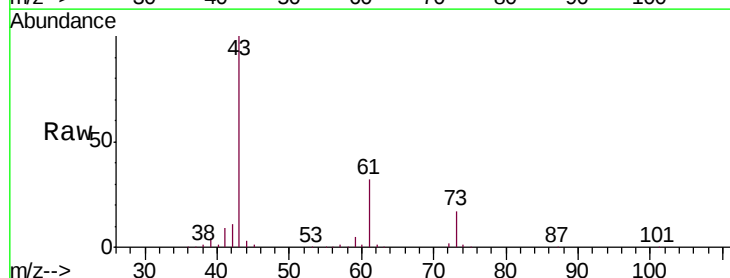
Instrument :
 MSVOA_U
 ClientSampleId :
 PB116506ZHE#09

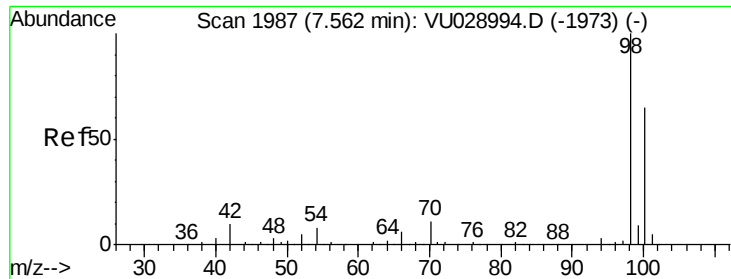
Tgt Ion: 63 Resp: 827
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#48
 Methyl methacrylate
 Concen: 34.316 ug/l
 RT: 6.70 min Scan# 1719
 Delta R.T. 0.08 min
 Lab File: VU029249.D
 Acq: 21 Jan 2019 15:20

Tgt Ion: 41 Resp: 55886
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.6 110.4#
 39 48.1 39.6 59.4

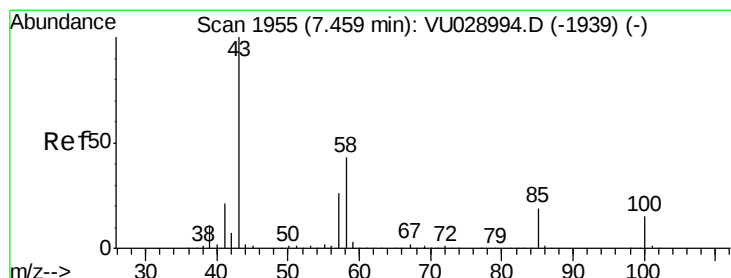
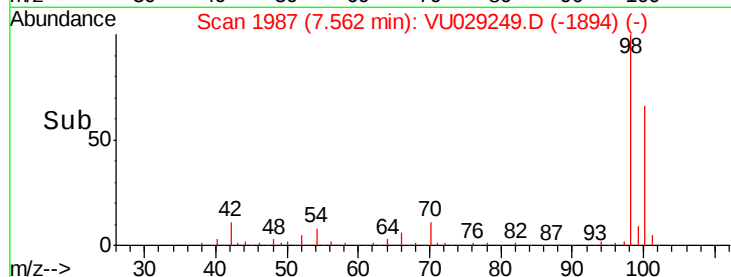
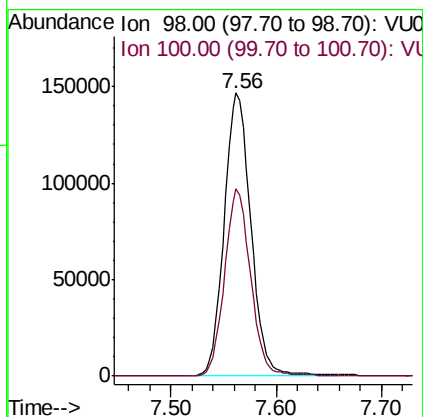
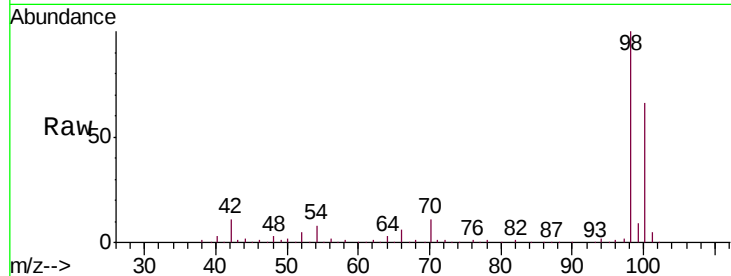




#50
Toluene-d8
Concen: 50.606 ug/l
RT: 7.56 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

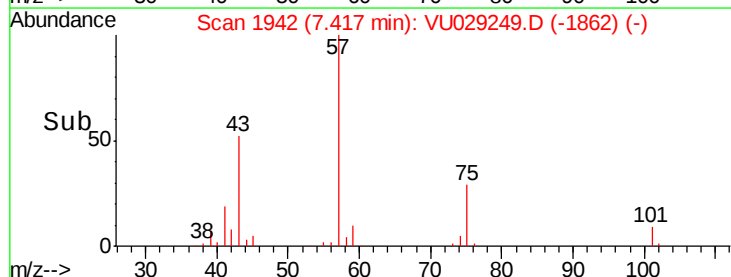
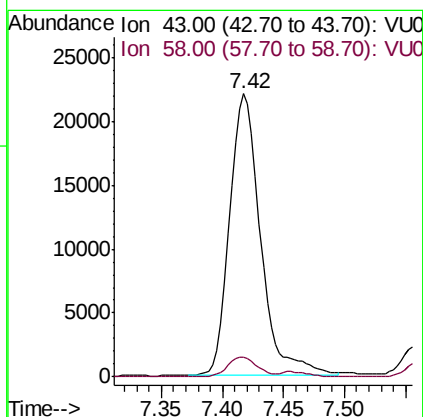
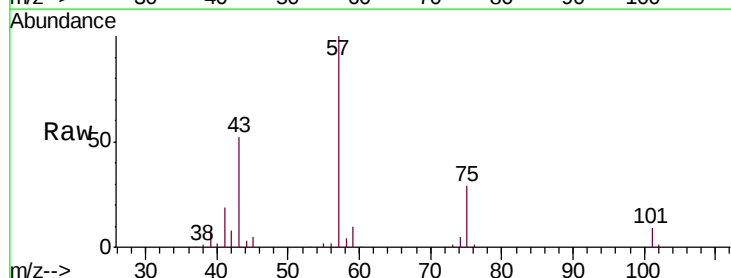
Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#09

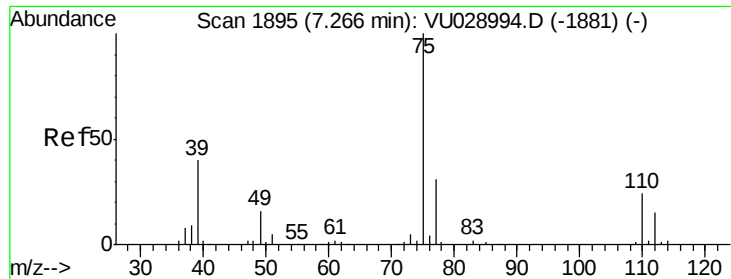
Tgt Ion: 98 Resp: 257360
Ion Ratio Lower Upper
98 100
100 64.5 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 17.217 ug/l
RT: 7.42 min Scan# 1942
Delta R.T. -0.04 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

Tgt Ion: 43 Resp: 39188
Ion Ratio Lower Upper
43 100
58 6.7 33.9 50.9#





#54

cis-1,3-Dichloropropene

Concen: 8.280 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. 0.15 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#09

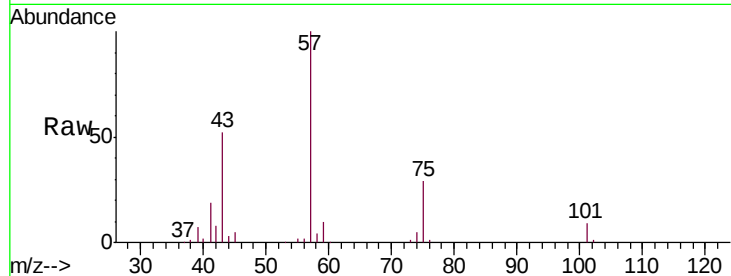
Tgt Ion: 75 Resp: 20697

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

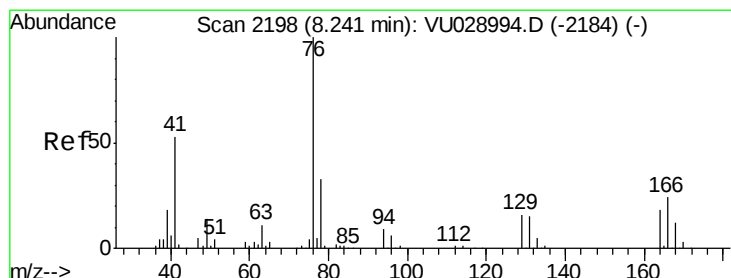
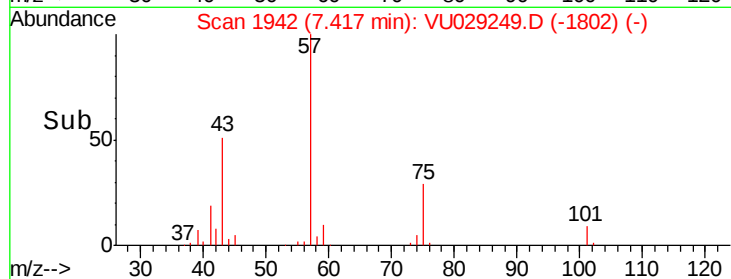
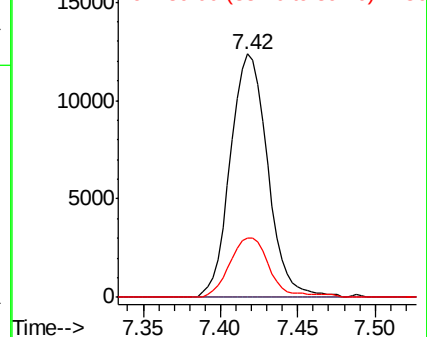
39 24.6 32.2 48.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0



#57

1,3-Dichloropropane

Concen: 1.945 ug/l

RT: 8.41 min Scan# 2251

Delta R.T. 0.17 min

Lab File: VU029249.D

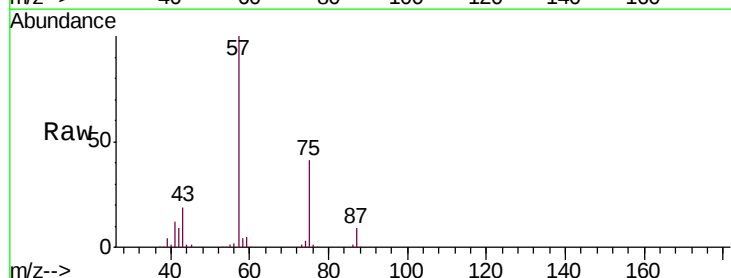
Acq: 21 Jan 2019 15:20

Tgt Ion: 76 Resp: 5030

Ion Ratio Lower Upper

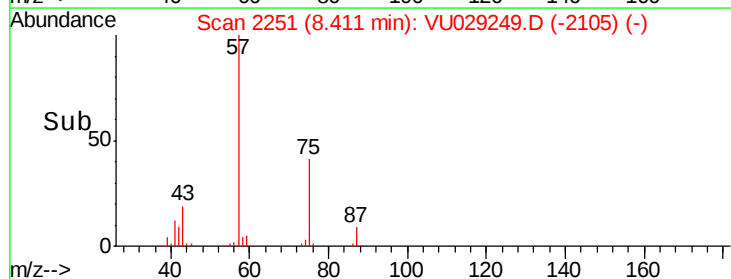
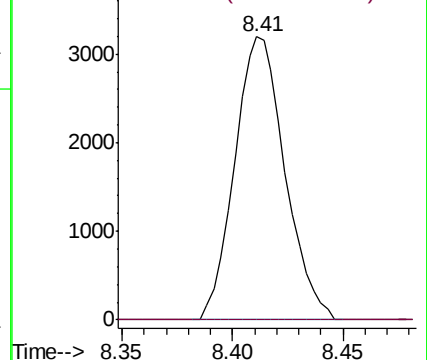
76 100

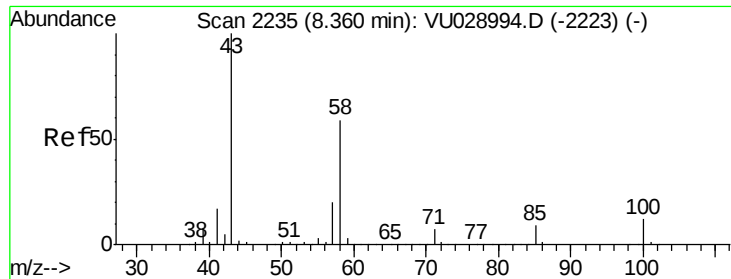
78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

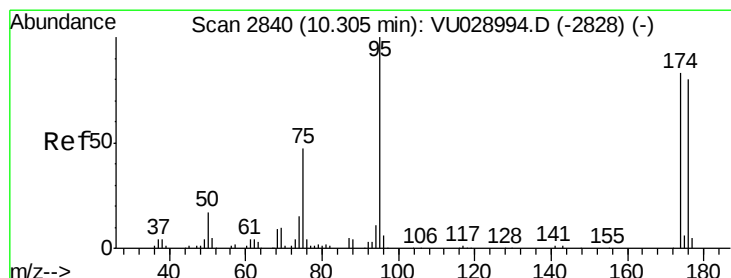
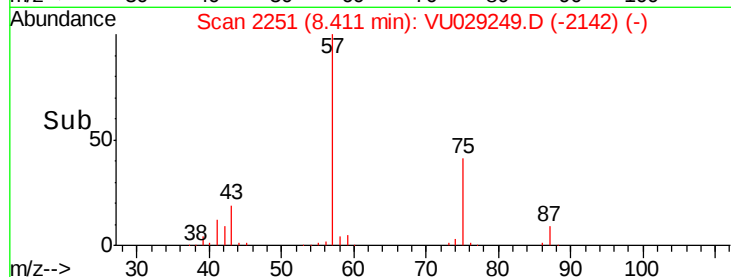
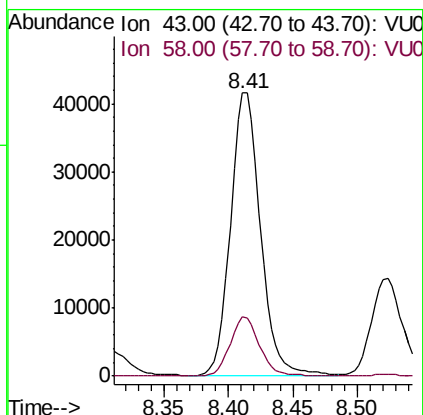
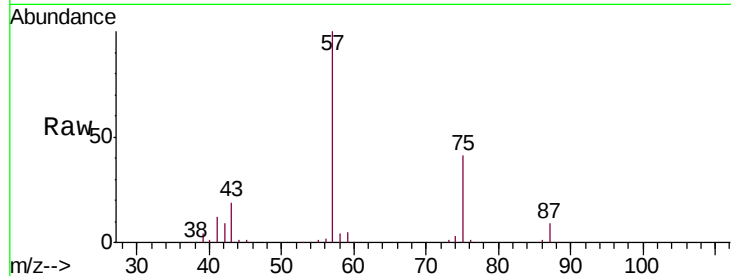




#59
2-Hexanone
Concen: 37.371 ug/l
RT: 8.41 min Scan# 2251
Delta R.T. 0.05 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

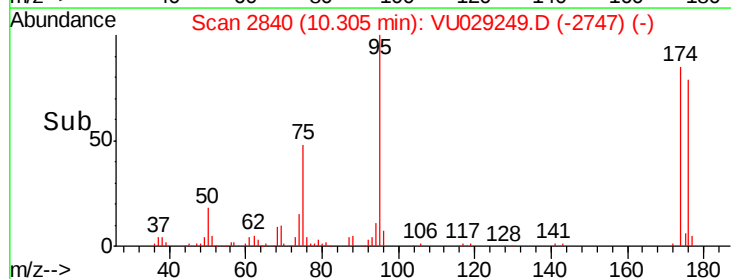
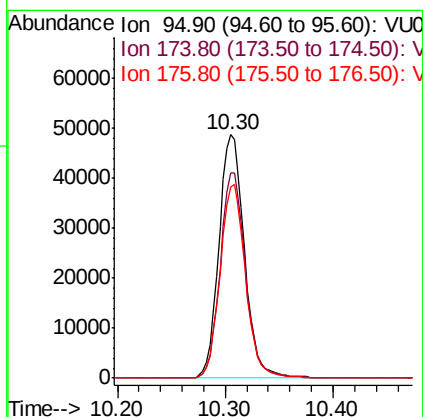
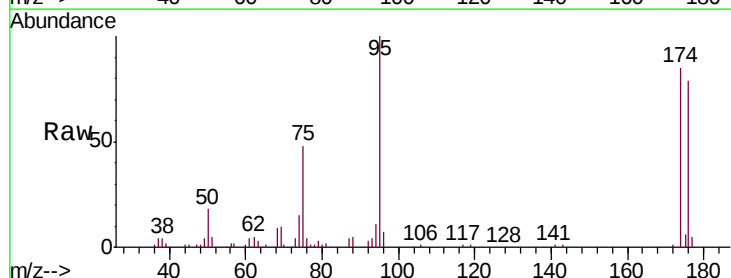
Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#09

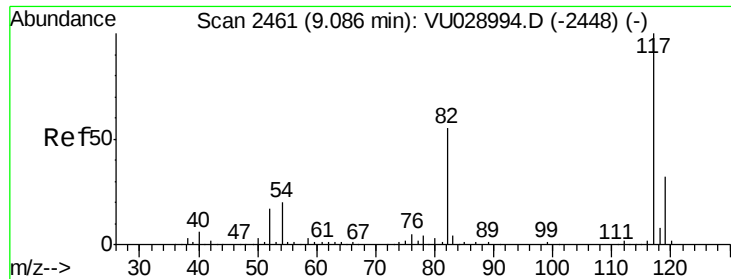
Tgt Ion: 43 Resp: 66771
Ion Ratio Lower Upper
43 100
58 20.7 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 43.685 ug/l
RT: 10.30 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

Tgt Ion: 95 Resp: 79842
Ion Ratio Lower Upper
95 100
174 84.1 0.0 170.6
176 79.8 0.0 165.0

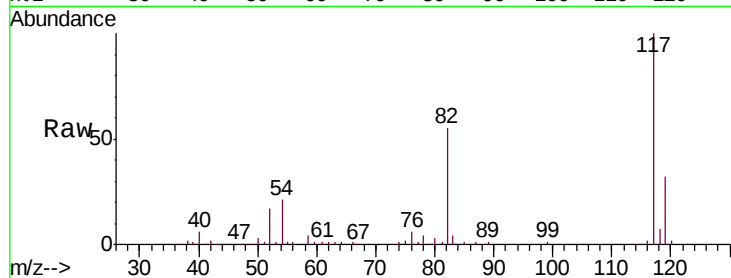




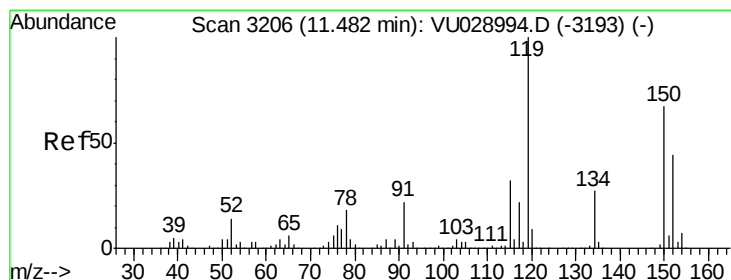
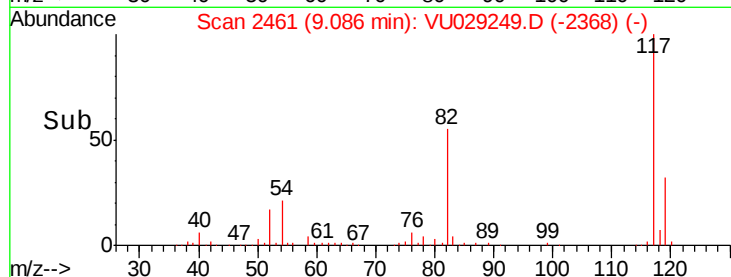
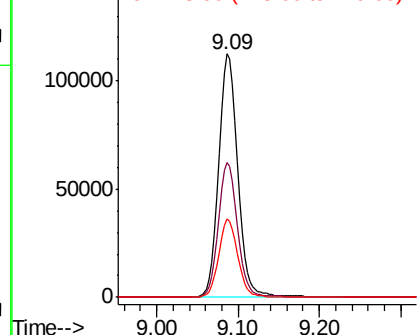
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2461
Delta R.T. 0.00 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

Instrument :
MSVOA_U
ClientSampleId :
PB116506ZHE#09

Tgt Ion:117 Resp: 188150
Ion Ratio Lower Upper
117 100
82 55.3 43.9 65.9
119 32.1 26.0 39.0

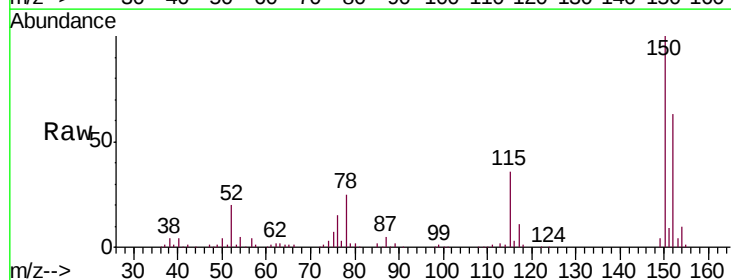


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

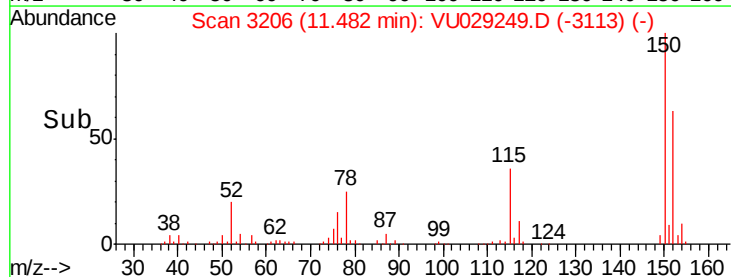
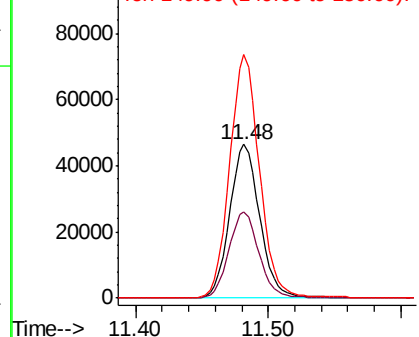


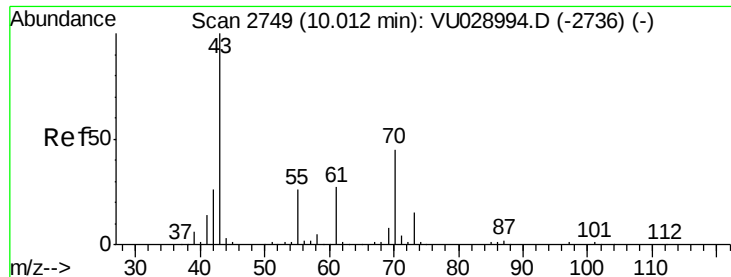
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3206
Delta R.T. 0.00 min
Lab File: VU029249.D
Acq: 21 Jan 2019 15:20

Tgt Ion:152 Resp: 73622
Ion Ratio Lower Upper
152 100
115 56.2 40.1 120.3
150 156.4 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





#74

N-ethyl acetate

Concen: 2.703 ug/l

RT: 9.76 min Scan# 2672

Delta R.T. -0.25 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

Instrument :

MSVOA_U

ClientSampleId :

PB116506ZHE#09

Tgt Ion: 43 Resp: 6347

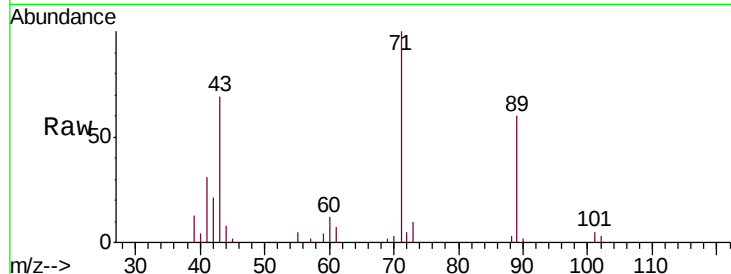
Ion Ratio Lower Upper

43 100

70 1.2 36.3 54.5#

55 4.3 20.5 30.7#

61 8.4 21.8 32.8#

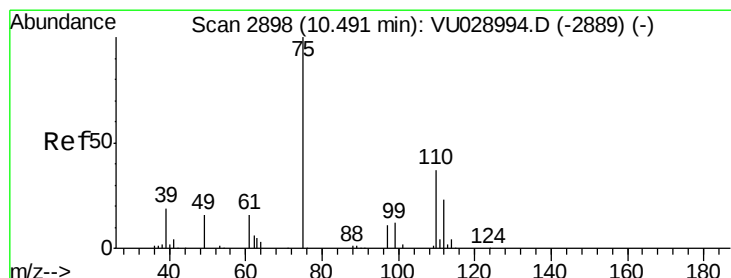
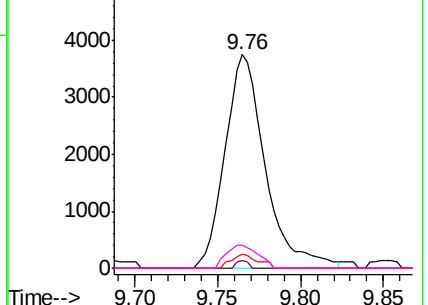
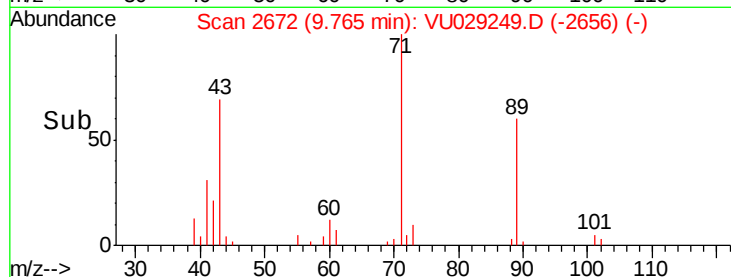


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 20.988 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029249.D

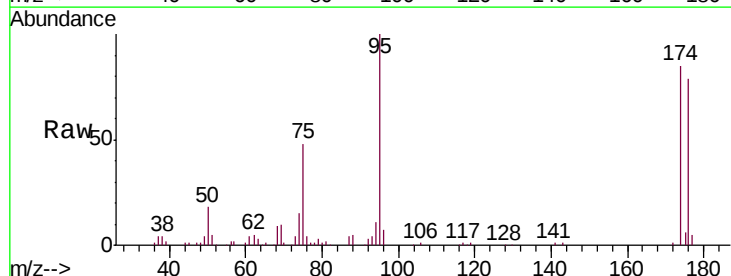
Acq: 21 Jan 2019 15:20

Tgt Ion: 75 Resp: 37860

Ion Ratio Lower Upper

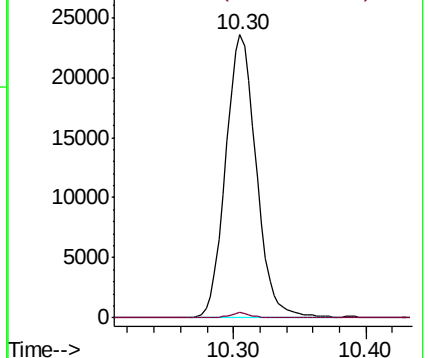
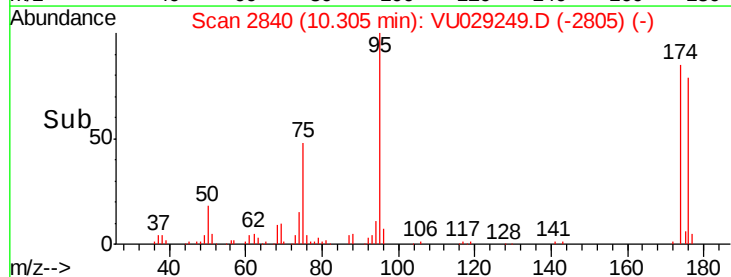
75 100

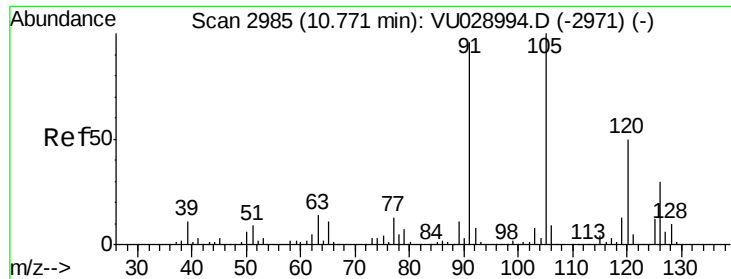
77 1.2 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#80

1,3,5-Trimethylbenzene

Concen: 0.448 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. 0.00 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

Instrument :

MSVOA_U

ClientSampleId :

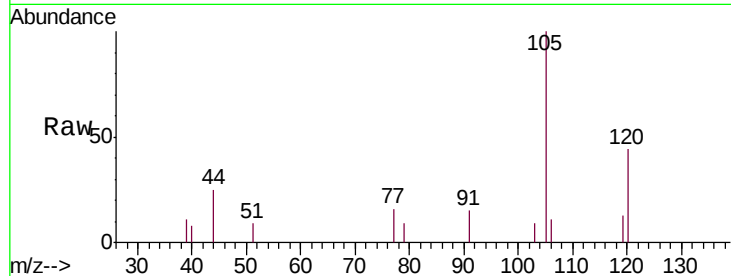
PB116506ZHE#09

Tgt Ion:105 Resp: 2040

Ion Ratio Lower Upper

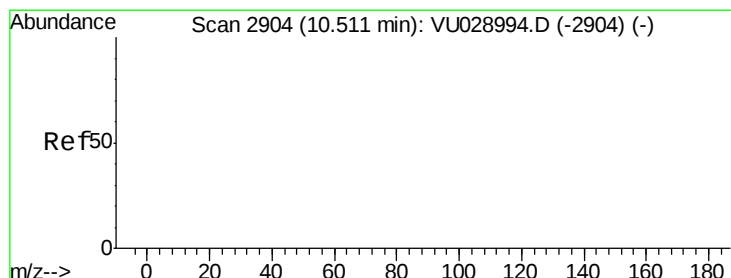
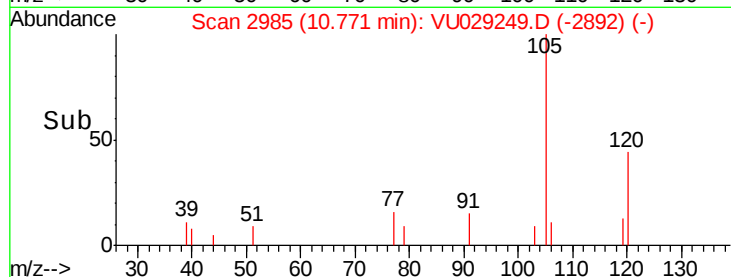
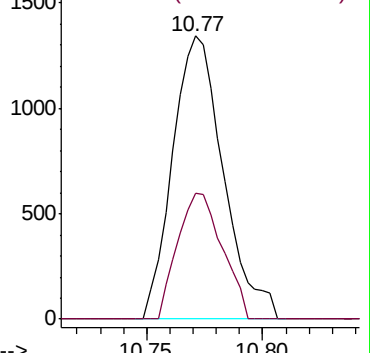
105 100

120 39.2 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 54.130 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029249.D

Acq: 21 Jan 2019 15:20

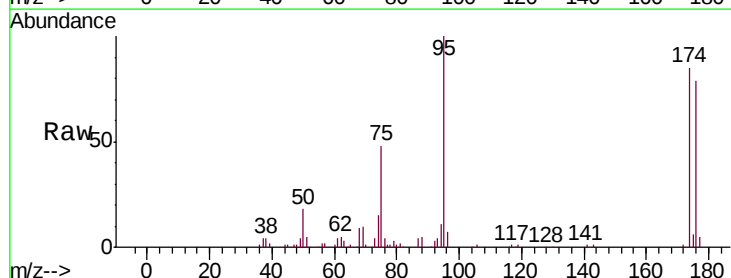
Tgt Ion: 75 Resp: 37860

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

