

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083019\
 Data File : VU034069.D
 Acq On : 29 Aug 2019 18:00
 Operator : JC/SP
 Sample : K4595-06ME
 Misc : 6.17g/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S503-K2-9.5-10.0-082819-FDME

Quant Time: Aug 30 04:48:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	486725	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	771187	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	756227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	387158	50.00	ug/l	0.00

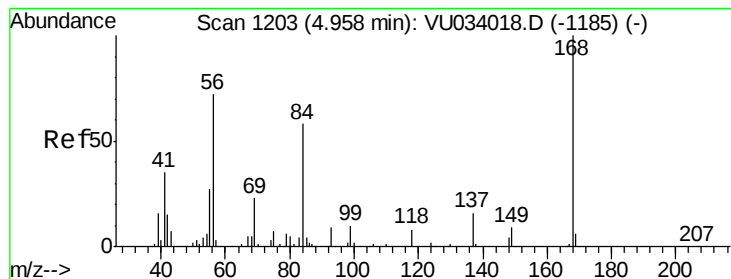
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.28	65	304776	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
35) Dibromofluoromethane	4.86	113	247111	46.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.40%	
50) Toluene-d8	7.55	98	959930	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	
62) 4-Bromofluorobenzene	10.30	95	367442	47.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.32%	

Target Compounds

						Qvalue
3) Chloromethane	1.32	50	4333	Below Cal		92
5) Bromomethane	1.59	94	2281	Below Cal		99
9) 1,1,2-Trichlorotrifluoroet	2.24	101	1241	0.259	ug/l #	84
10) Methyl Iodide	2.38	142	1744	0.257	ug/l #	90
11) Tert butyl alcohol	2.80	59	340	0.236	ug/l #	73
13) Acrolein	2.19	56	165	0.273	ug/l #	80
18) Methyl Acetate	2.62	43	5449	0.663	ug/l #	87
20) Methylene Chloride	2.68	84	1725	0.286	ug/l	90
27) cis-1,2-Dichloroethene	4.20	96	9100	1.533	ug/l	89
31) Cyclohexane	4.96	56	8765	0.941	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	35594	4.880	ug/l #	48
38) Carbon Tetrachloride	4.95	117	43901	6.235	ug/l #	16
44) Trichloroethene	6.16	130	57026	9.840	ug/l	97
60) Dibromochloromethane	8.21	129	1609	0.261	ug/l #	10
64) Tetrachloroethene	8.21	164	1556	0.306	ug/l	86
76) 1,2,3-Trichloropropane	10.30	75	175924	20.161	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.30	75	175924	67.888	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.54	180	44	1.119	ug/l #	12
95) Naphthalene	13.79	128	65	1.792	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

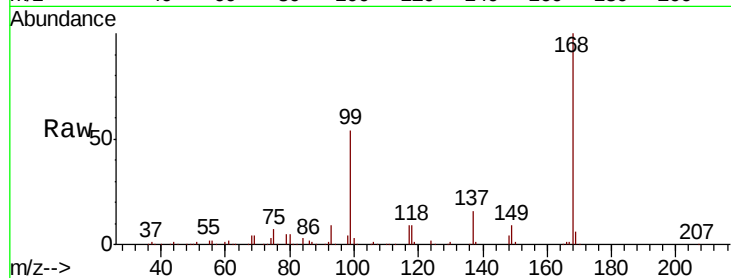
S503-K2-9.5-10.0-082819-FDME

Tgt Ion:168 Resp: 486725

Ion Ratio Lower Upper

168 100

99 53.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034018.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034018.D (-1185) (-)

4.96

200000

150000

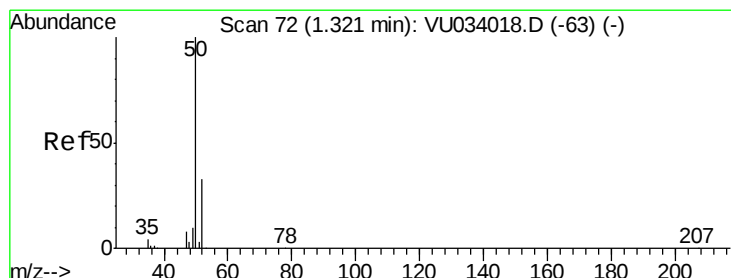
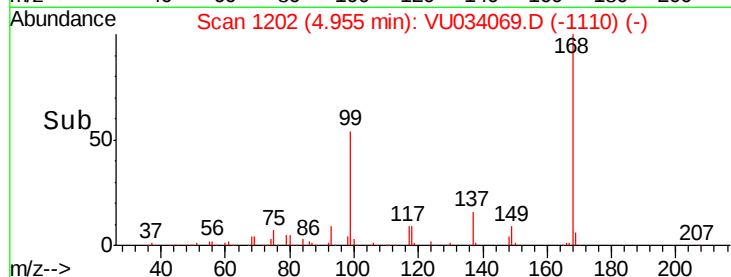
100000

50000

0

4.80 4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU034069.D

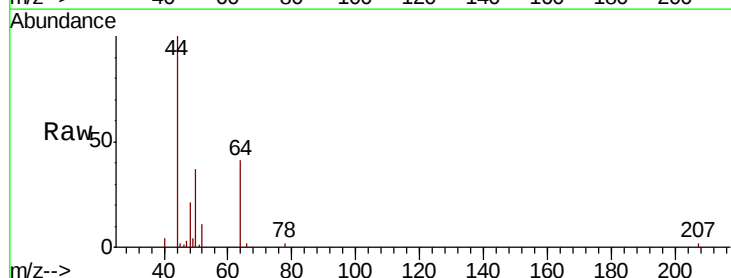
Acq: 29 Aug 2019 18:00

Tgt Ion: 50 Resp: 4333

Ion Ratio Lower Upper

50 100

52 28.4 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.32

3000

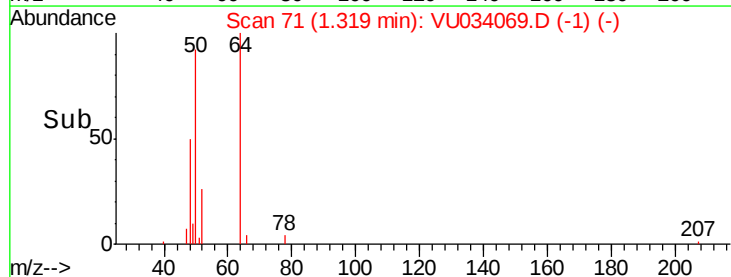
2000

1000

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 156

Delta R.T. -0.01 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

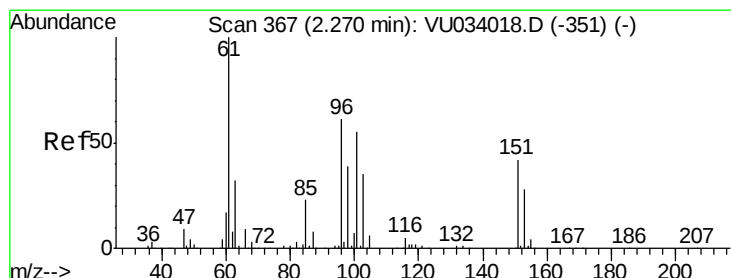
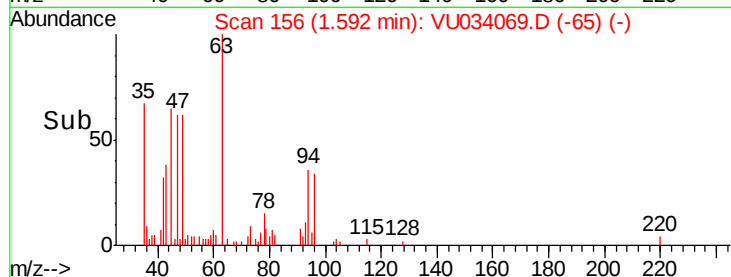
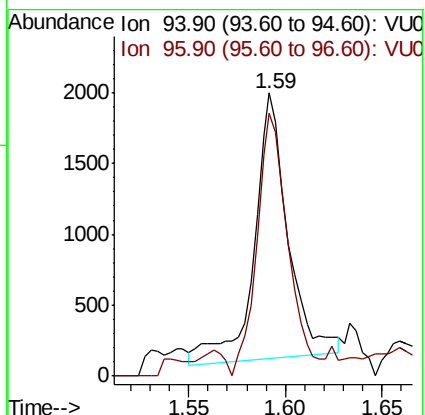
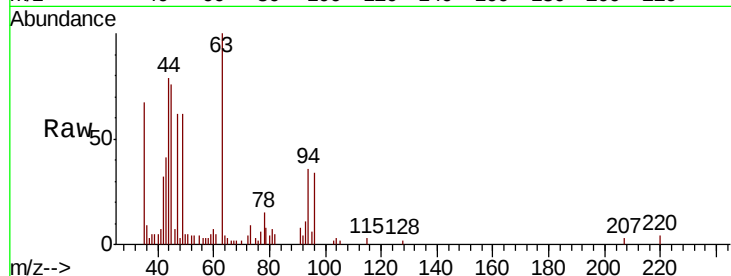
S503-K2-9.5-10.0-082819-FDME

Tgt Ion: 94 Resp: 2281

Ion Ratio Lower Upper

94 100

96 96.1 76.3 114.5



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.259 ug/l

RT: 2.24 min Scan# 359

Delta R.T. -0.03 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

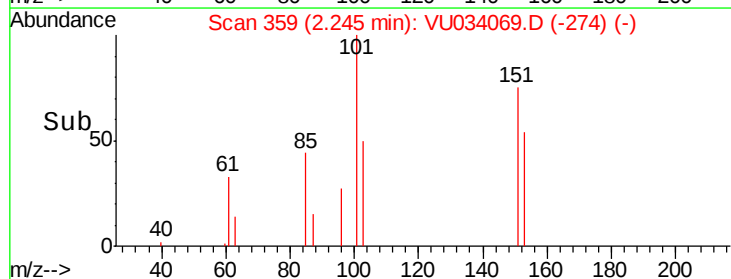
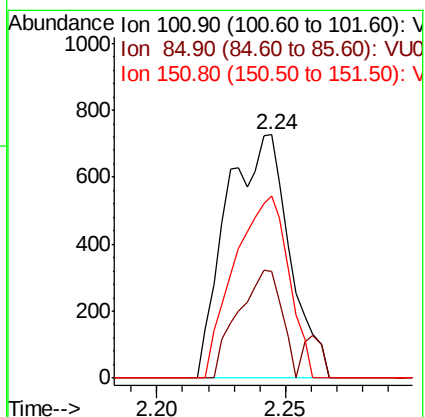
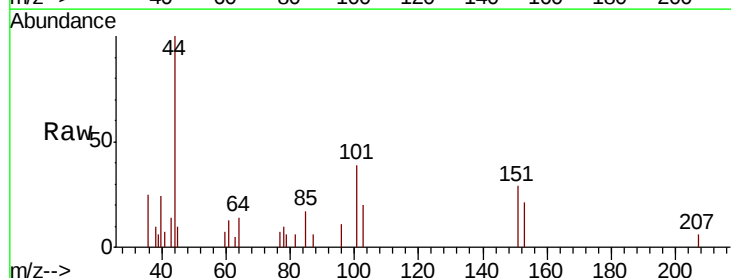
Tgt Ion: 101 Resp: 1241

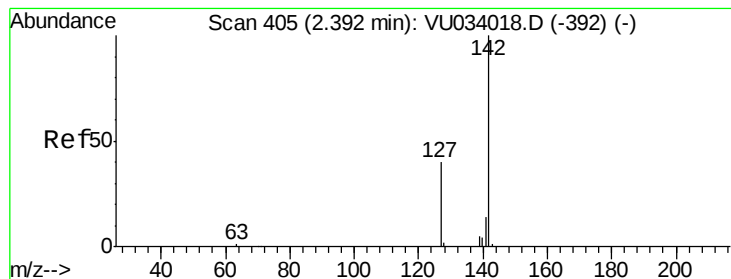
Ion Ratio Lower Upper

101 100

85 30.7 34.2 51.2#

151 64.5 61.4 92.2





#10

Methyl Iodide

Concen: 0.257 ug/l

RT: 2.38 min Scan# 401

Delta R.T. -0.01 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

S503-K2-9.5-10.0-082819-FDME

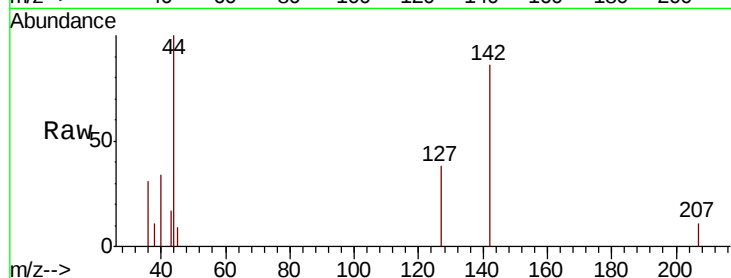
Tgt Ion: 142 Resp: 1744

Ion Ratio Lower Upper

142 100

127 41.8 32.6 48.8

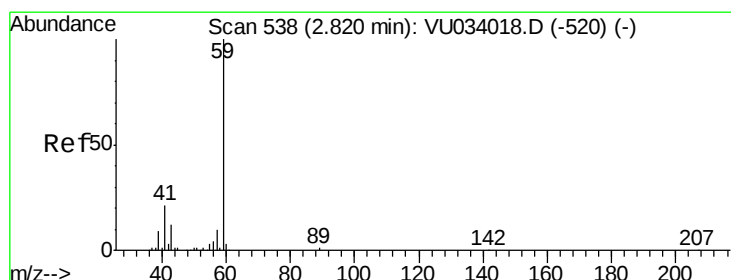
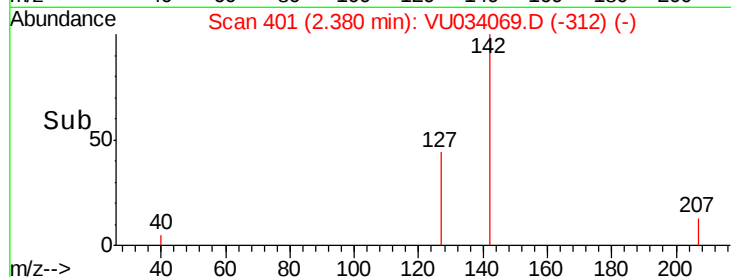
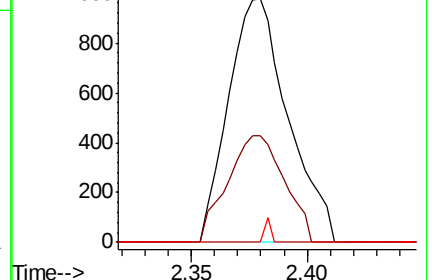
141 1.1 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.236 ug/l

RT: 2.80 min Scan# 533

Delta R.T. -0.02 min

Lab File: VU034069.D

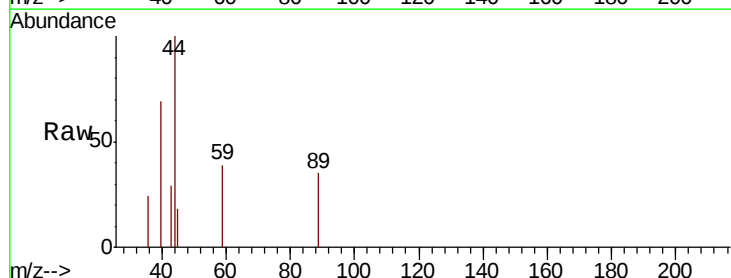
Acq: 29 Aug 2019 18:00

Tgt Ion: 59 Resp: 340

Ion Ratio Lower Upper

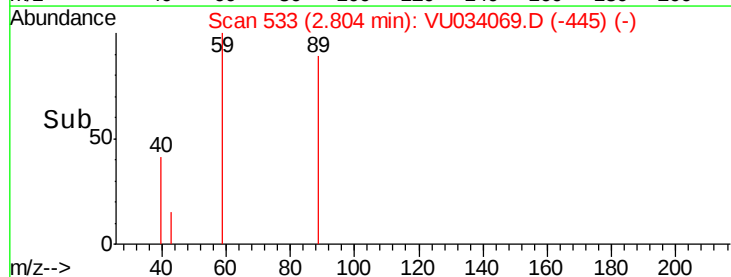
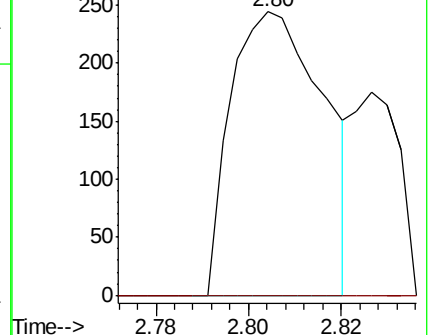
59 100

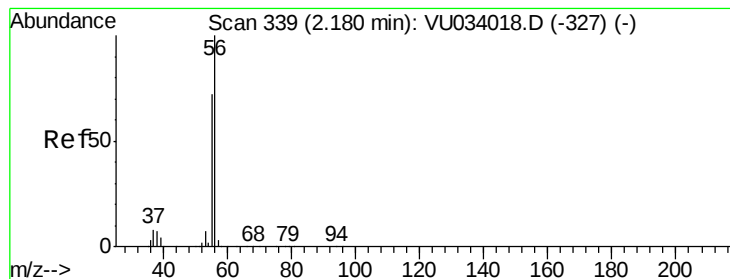
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.273 ug/l

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

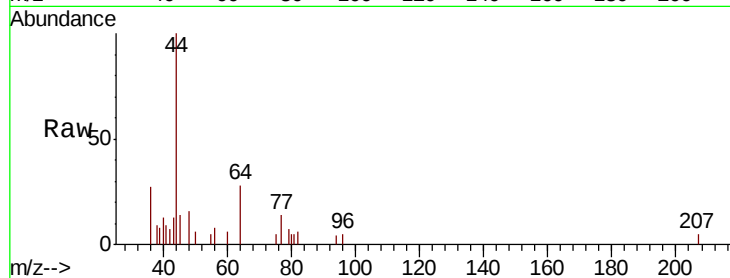
S503-K2-9.5-10.0-082819-FDME

Tgt Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 55.2 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034018.D (-327) (-)

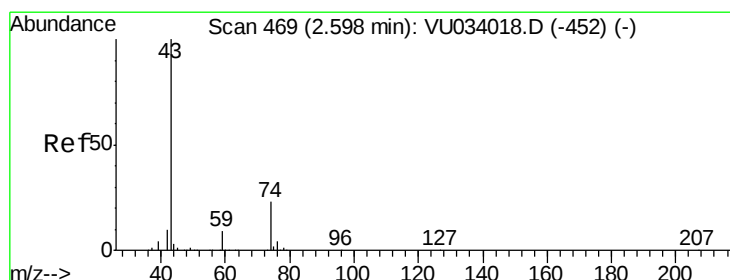
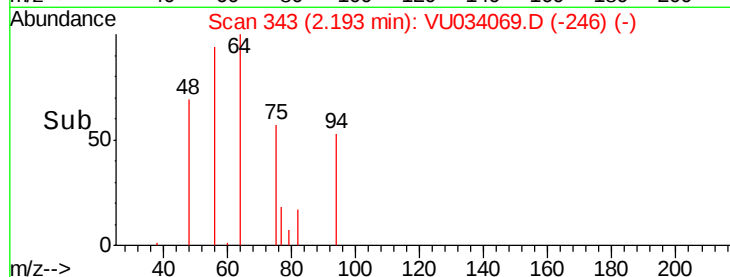
Ion 55.00 (54.70 to 55.70): VU034018.D (-327) (-)

2.19

2.18

2.20

Time-->



#18

Methyl Acetate

Concen: 0.663 ug/l

RT: 2.62 min Scan# 476

Delta R.T. 0.02 min

Lab File: VU034069.D

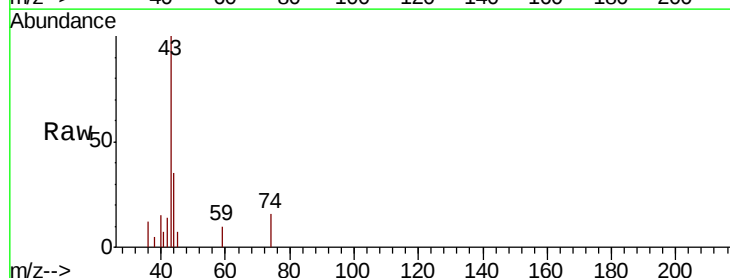
Acq: 29 Aug 2019 18:00

Tgt Ion: 43 Resp: 5449

Ion Ratio Lower Upper

43 100

74 17.7 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-452) (-)

Ion 74.00 (73.70 to 74.70): VU034018.D (-452) (-)

2.62

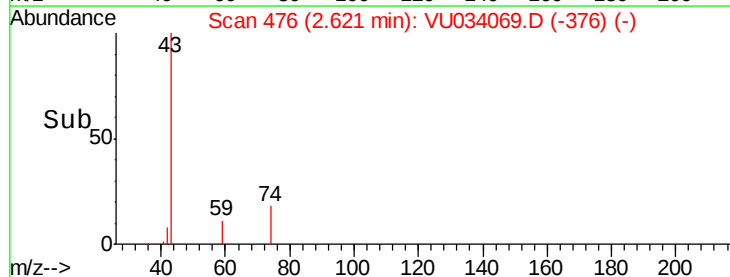
2.55

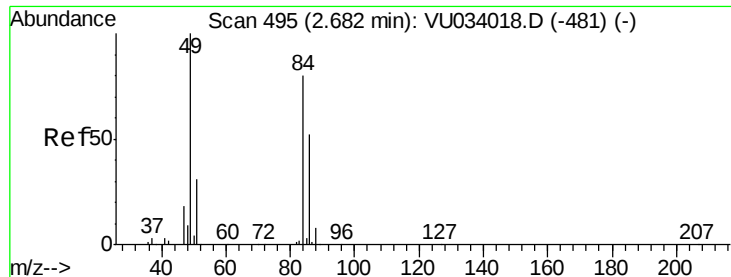
2.60

2.65

2.70

Time-->





#20

Methylene Chloride

Concen: 0.286 ug/l

RT: 2.68 min Scan# 493

Delta R.T. -0.01 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

S503-K2-9.5-10.0-082819-FDME

Tgt Ion: 84 Resp: 1725

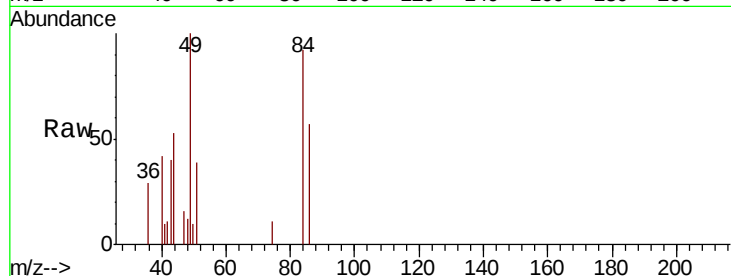
Ion Ratio Lower Upper

84 100

49 109.1 100.2 150.4

51 42.5 30.8 46.2

86 62.0 52.5 78.7

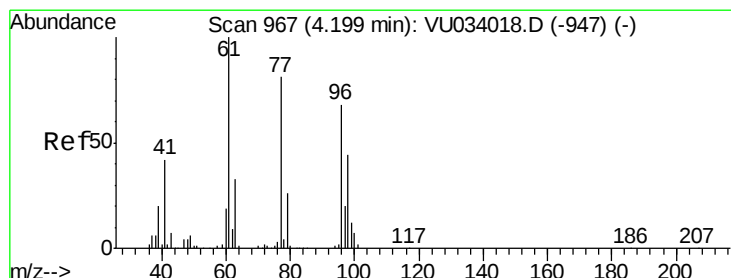
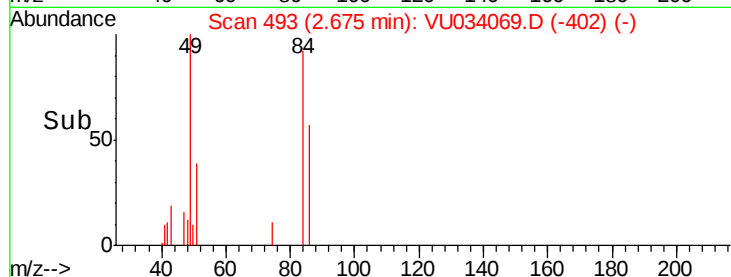
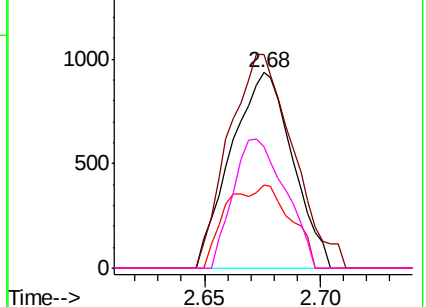


Abundance Ion 83.90 (83.60 to 84.60): VU0

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



#27

cis-1,2-Dichloroethene

Concen: 1.533 ug/l

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

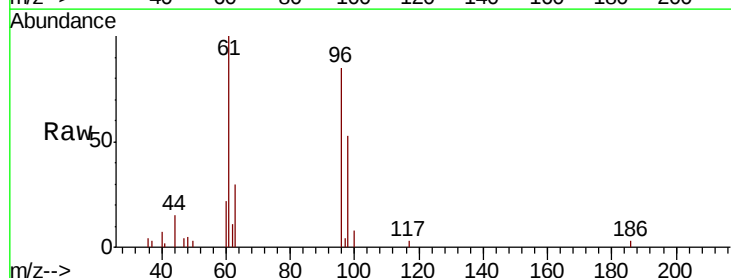
Tgt Ion: 96 Resp: 9100

Ion Ratio Lower Upper

96 100

61 131.2 0.0 303.0

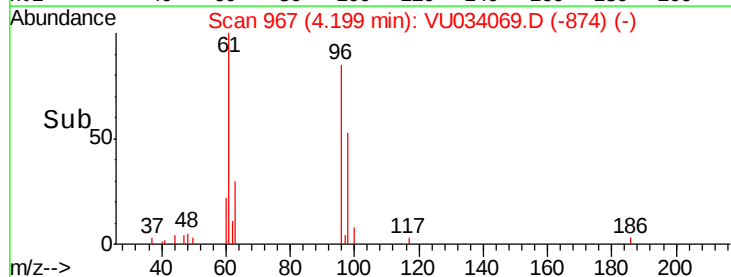
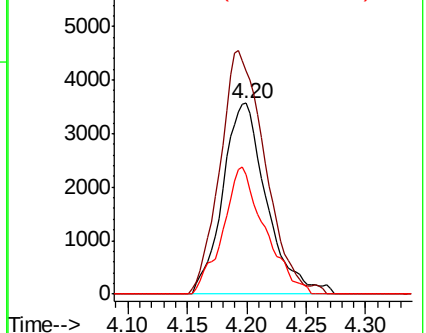
98 63.7 0.0 129.2

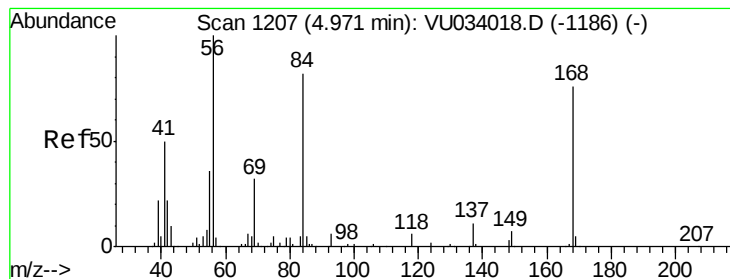


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#31

Cyclohexane

Concen: 0.941 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

S503-K2-9.5-10.0-082819-FDME

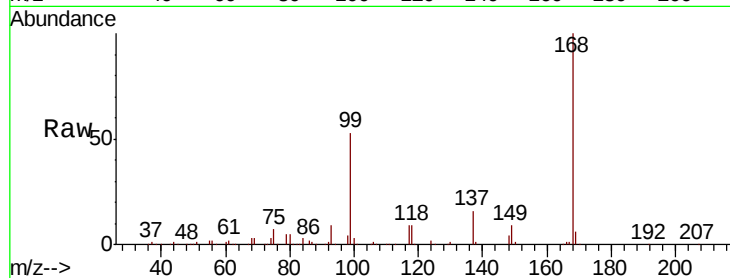
Tgt Ion: 56 Resp: 8765

Ion Ratio Lower Upper

56 100

69 191.9 25.4 38.0#

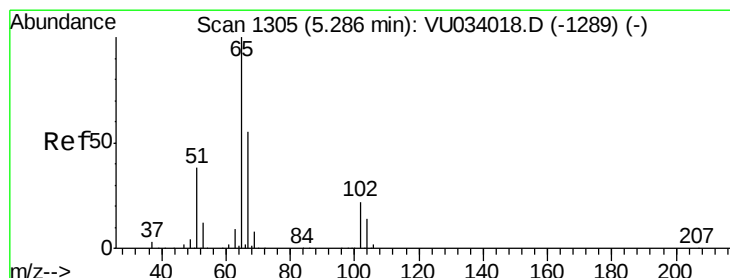
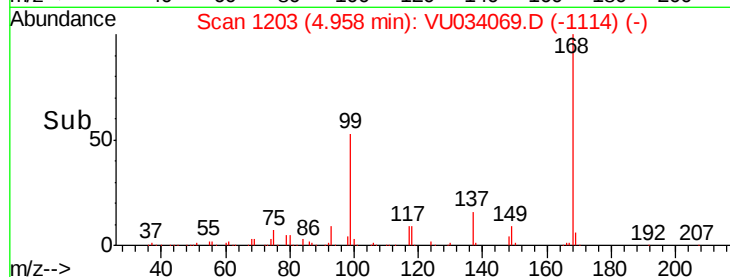
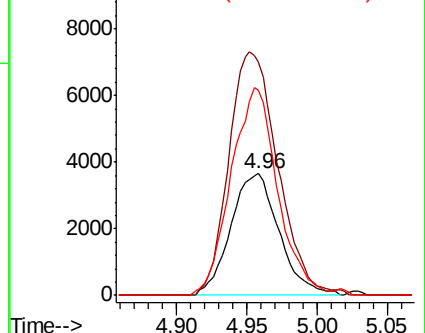
84 168.7 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034069.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034069.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034069.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.869 ug/l

RT: 5.28 min Scan# 1304

Delta R.T. -0.00 min

Lab File: VU034069.D

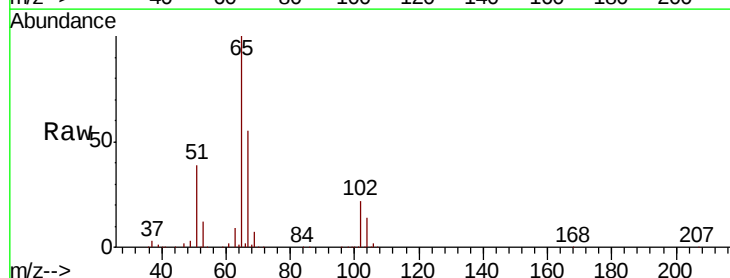
Acq: 29 Aug 2019 18:00

Tgt Ion: 65 Resp: 304776

Ion Ratio Lower Upper

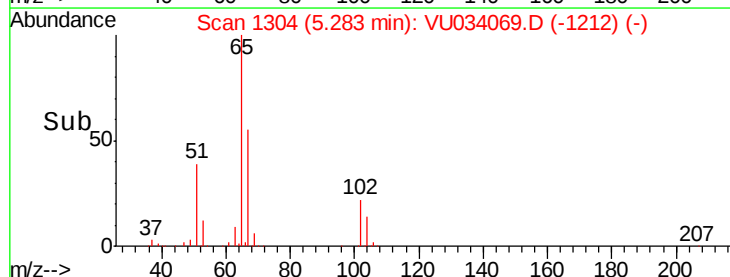
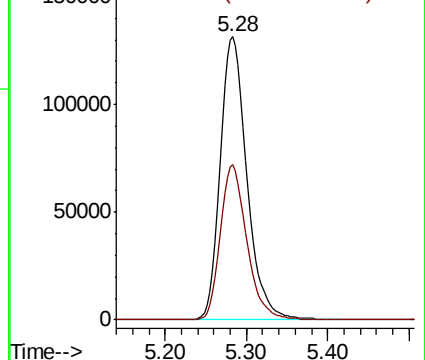
65 100

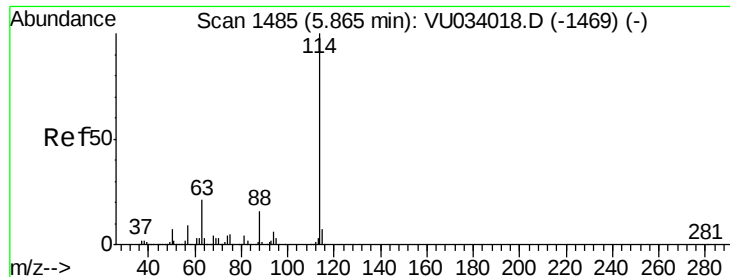
67 54.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034069.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034069.D (-1212) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.86 min Scan# 1484

Delta R.T. -0.00 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

S503-K2-9.5-10.0-082819-FDME

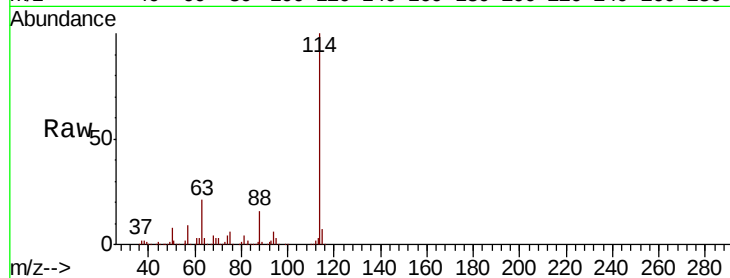
Tgt Ion:114 Resp: 771187

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.0

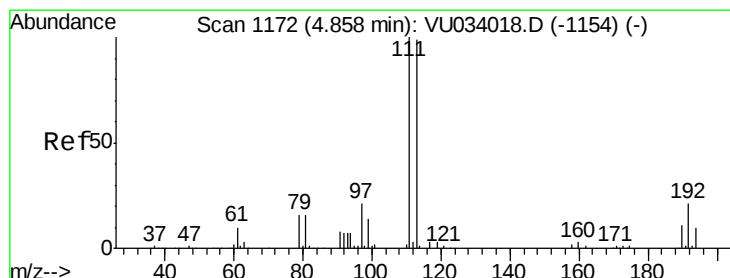
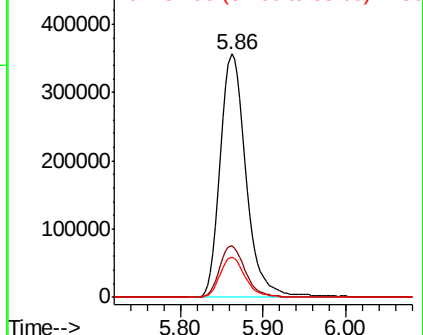
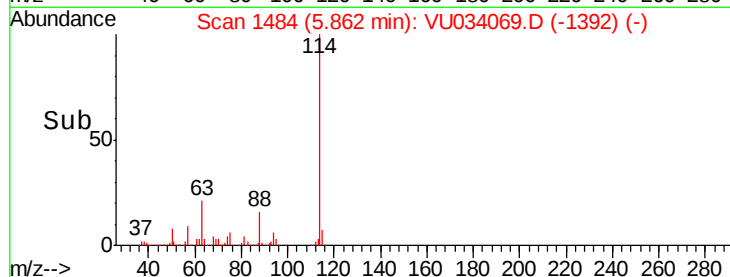
88 16.4 0.0 32.0



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: 46.199 ug/l

RT: 4.86 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

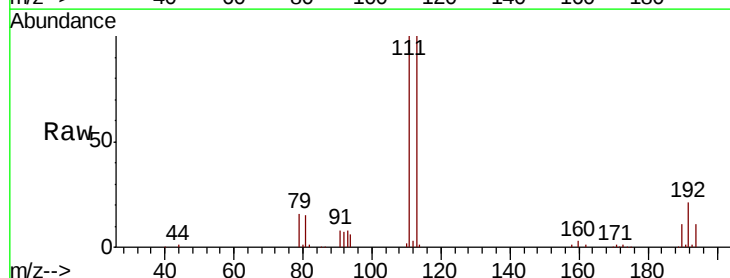
Tgt Ion:113 Resp: 247111

Ion Ratio Lower Upper

113 100

111 102.1 81.7 122.5

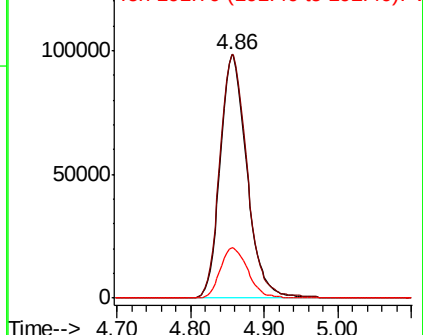
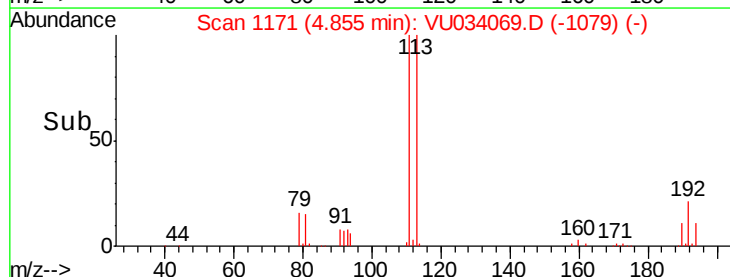
192 21.5 17.1 25.7

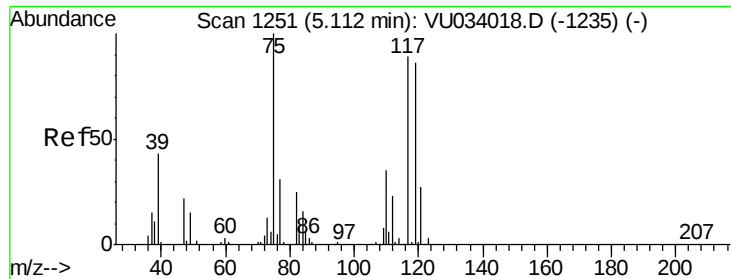


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

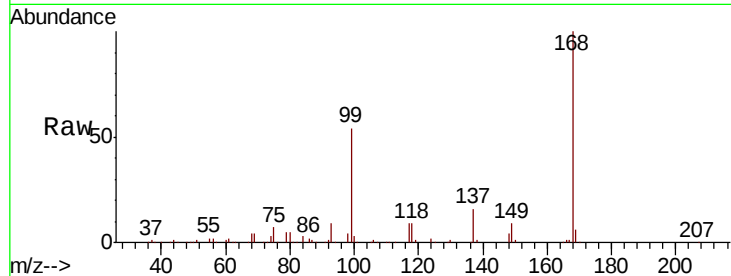




#36
 1,1-Dichloropropene
 Concen: 4.880 ug/l
 RT: 4.96 min Scan# 1202
 Delta R.T. -0.16 min
 Lab File: VU034069.D
 Acq: 29 Aug 2019 18:00

Instrument :
 MSVOA_U
 ClientSampleId :
 S503-K2-9.5-10.0-082819-FDME

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.8	53.5#
77	0.0	25.0	37.4#

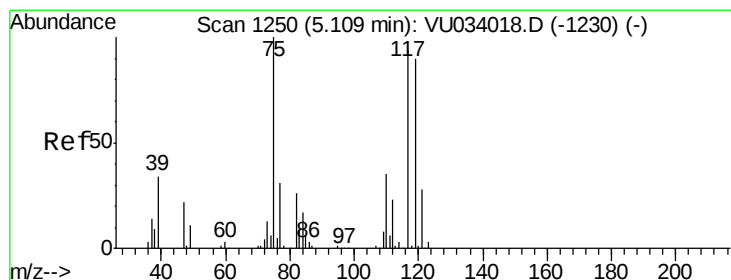
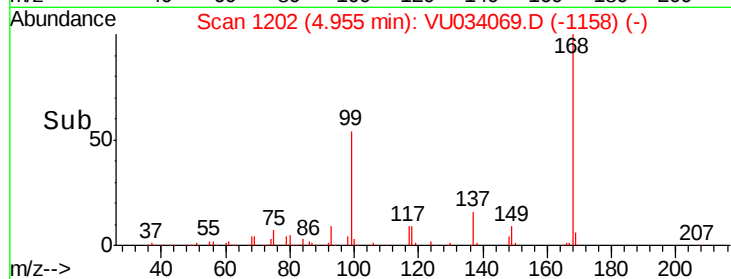
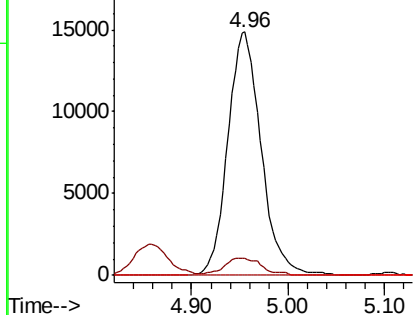


Abundance

Ion 74.90 (74.60 to 75.60): VU034069.D (-1158) (-)

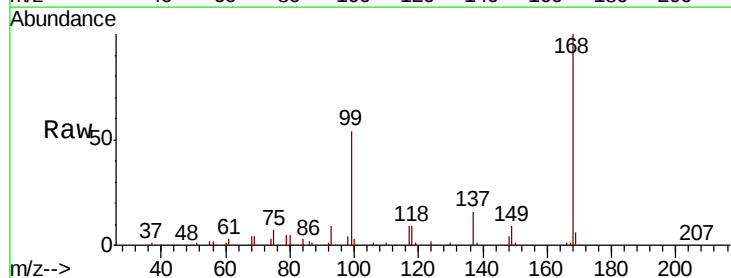
Ion 109.90 (109.60 to 110.60): VU034069.D (-1158) (-)

Ion 76.90 (76.60 to 77.60): VU034069.D (-1158) (-)



#38
 Carbon Tetrachloride
 Concen: 6.235 ug/l
 RT: 4.95 min Scan# 1201
 Delta R.T. -0.16 min
 Lab File: VU034069.D
 Acq: 29 Aug 2019 18:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	77.0	115.4#
121	0.0	23.9	35.9#

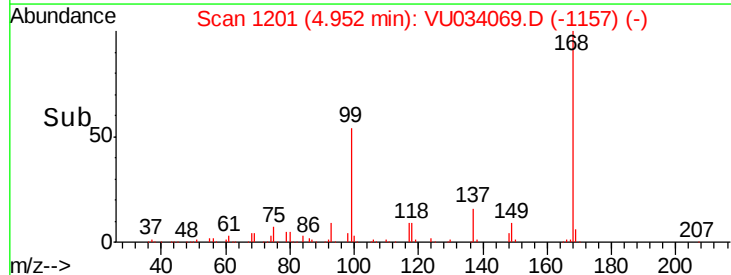
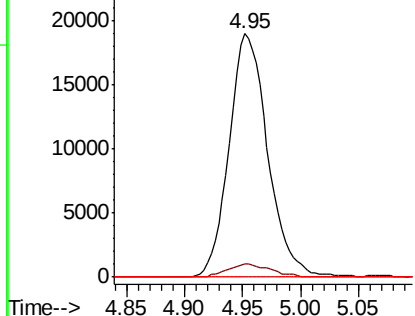


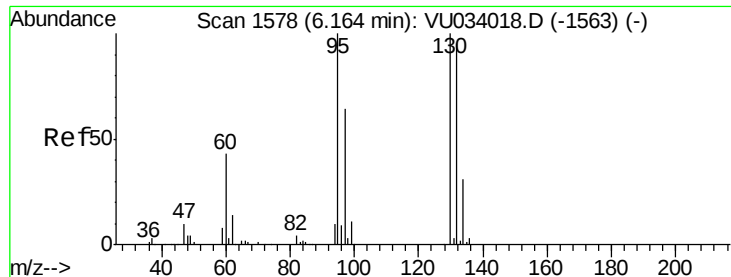
Abundance

Ion 116.80 (116.50 to 117.50): VU034069.D (-1157) (-)

Ion 118.80 (118.50 to 119.50): VU034069.D (-1157) (-)

Ion 120.80 (120.50 to 121.50): VU034069.D (-1157) (-)





#44

Trichloroethene

Concen: 9.840 ug/l

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

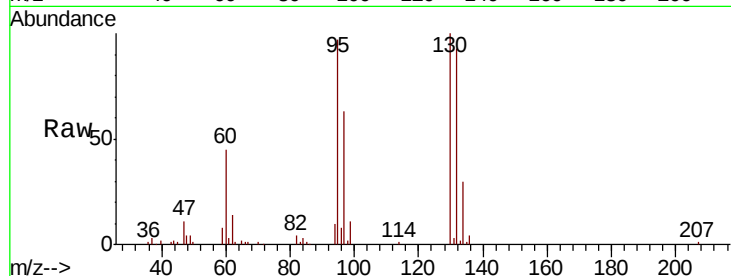
S503-K2-9.5-10.0-082819-FDME

Tgt Ion:130 Resp: 57026

Ion Ratio Lower Upper

130 100

95 97.0 0.0 199.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

6.16

30000

25000

20000

15000

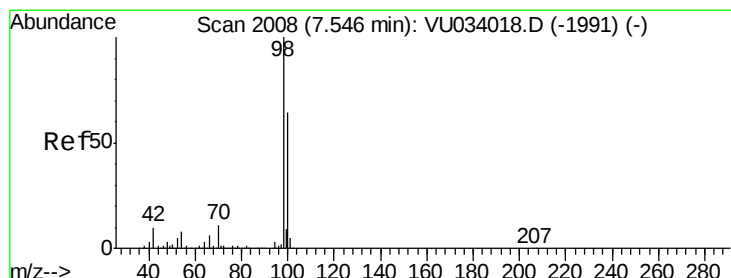
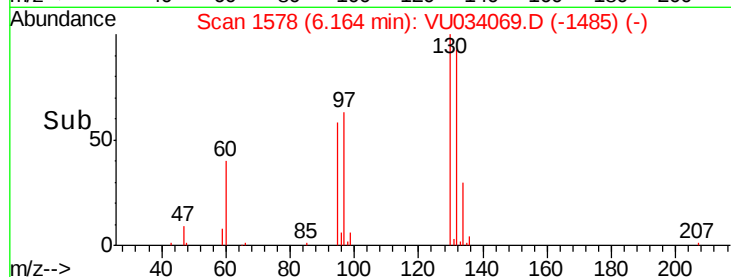
10000

5000

0

6.10 6.20 6.30

Time-->



#50

Toluene-d8

Concen: 47.929 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU034069.D

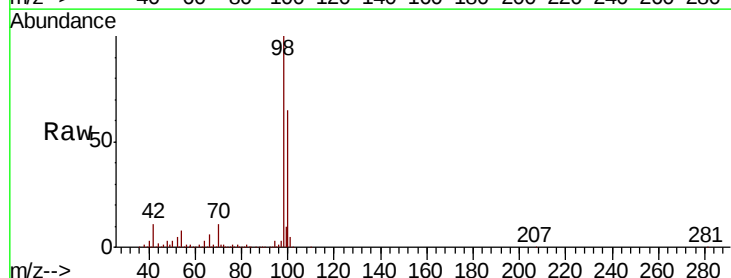
Acq: 29 Aug 2019 18:00

Tgt Ion: 98 Resp: 959930

Ion Ratio Lower Upper

98 100

100 64.4 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

7.55

600000

500000

400000

300000

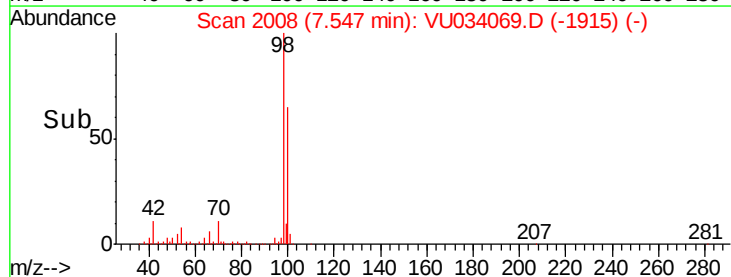
200000

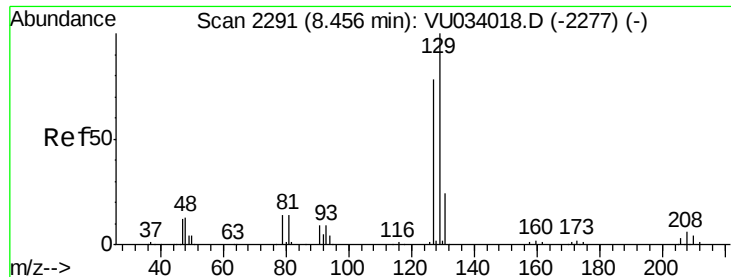
100000

0

7.50 7.60 7.70

Time-->





#60

Dibromochloromethane

Concen: 0.261 ug/l

RT: 8.21 min Scan# 2215

Delta R.T. -0.24 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

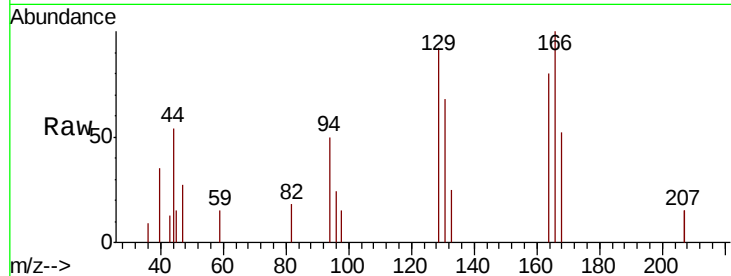
S503-K2-9.5-10.0-082819-FDME

Tgt Ion:129 Resp: 1609

Ion Ratio Lower Upper

129 100

127 0.0 39.0 116.9#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.21

1000

800

600

400

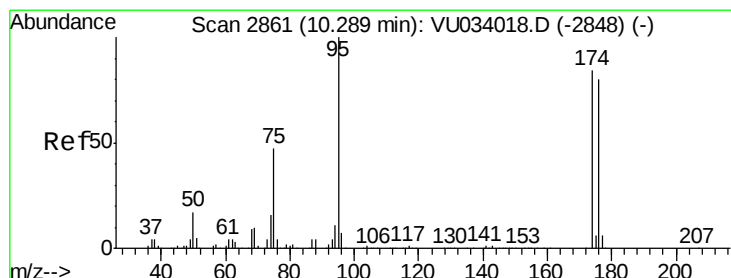
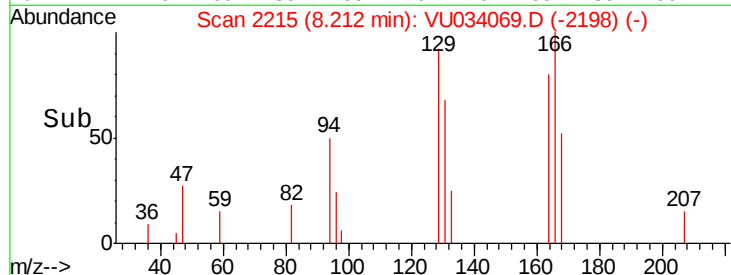
200

0

8.20

8.25

Time-->



#62

4-Bromofluorobenzene

Concen: 47.164 ug/l

RT: 10.30 min Scan# 2863

Delta R.T. 0.01 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

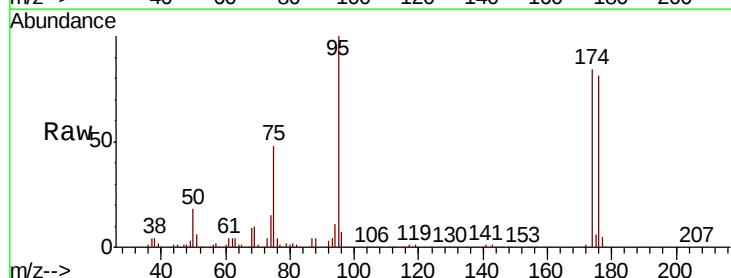
Tgt Ion: 95 Resp: 367442

Ion Ratio Lower Upper

95 100

174 84.4 0.0 168.8

176 80.7 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

300000

250000

200000

150000

100000

50000

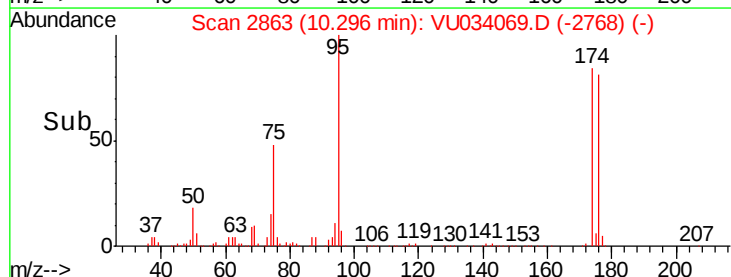
0

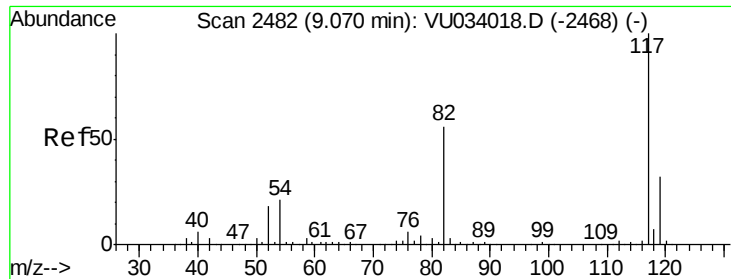
10.20

10.30

10.40

Time-->

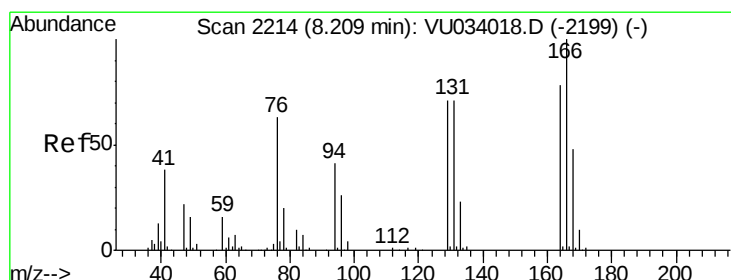
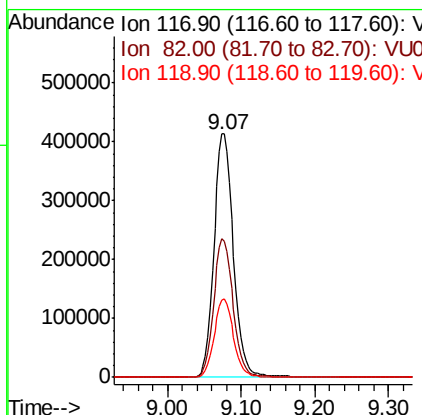
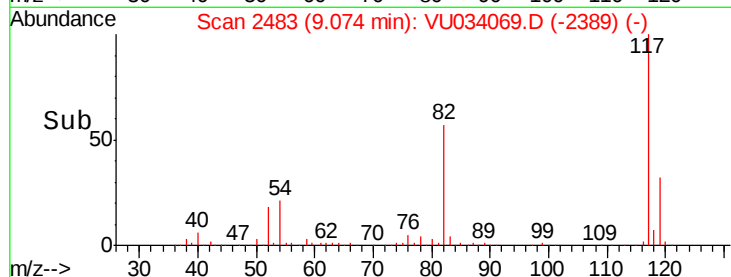
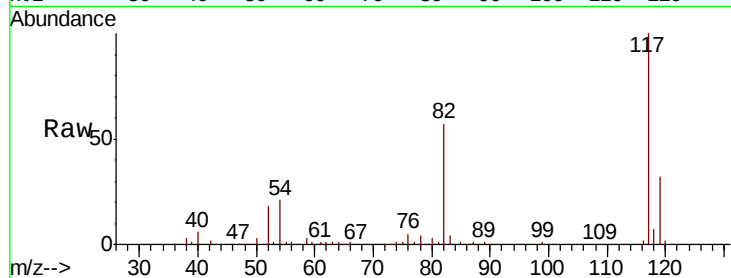




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2483
Delta R.T. 0.00 min
Lab File: VU034069.D
Acq: 29 Aug 2019 18:00

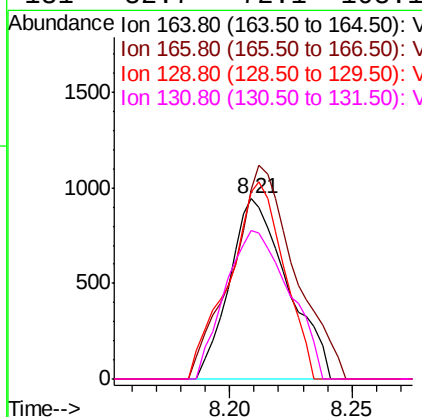
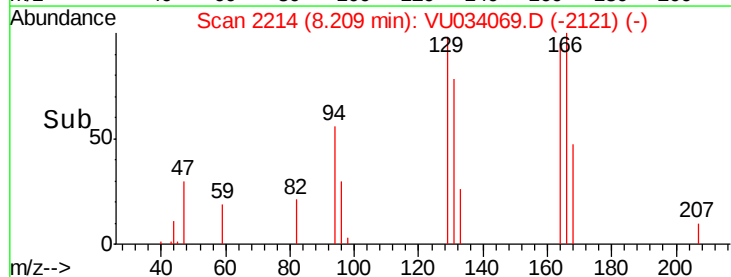
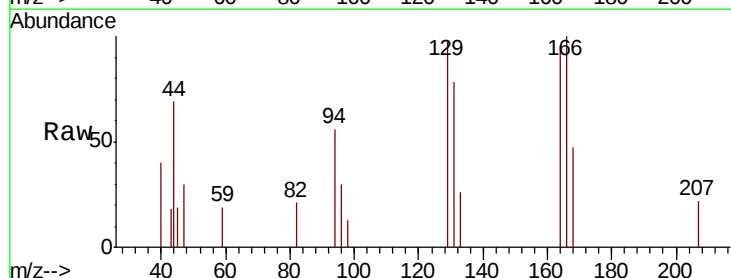
Instrument :
MSVOA_U
ClientSampleId :
S503-K2-9.5-10.0-082819-FDME

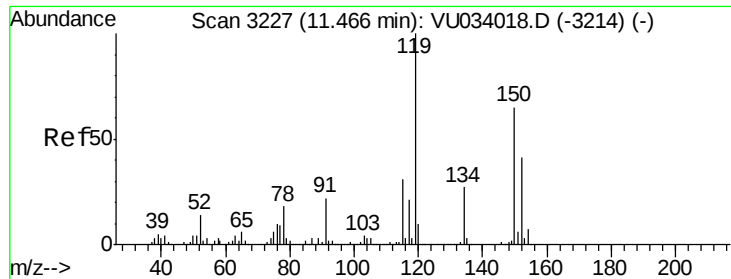
Tgt Ion:117 Resp: 756227
Ion Ratio Lower Upper
117 100
82 56.8 45.1 67.7
119 31.6 25.4 38.0



#64
Tetrachloroethene
Concen: 0.306 ug/l
RT: 8.21 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VU034069.D
Acq: 29 Aug 2019 18:00

Tgt Ion:164 Resp: 1556
Ion Ratio Lower Upper
164 100
166 105.4 102.2 153.2
129 103.6 72.4 108.6
131 82.7 72.1 108.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.47 min Scan# 3228

Delta R.T. 0.00 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

S503-K2-9.5-10.0-082819-FDME

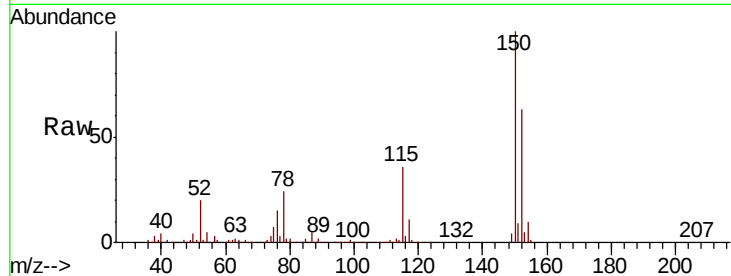
Tgt Ion:152 Resp: 387158

Ion Ratio Lower Upper

152 100

115 58.0 41.1 123.3

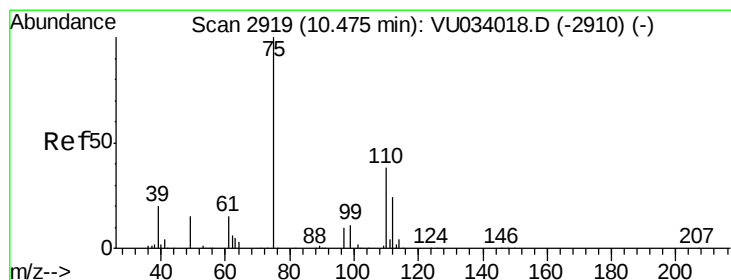
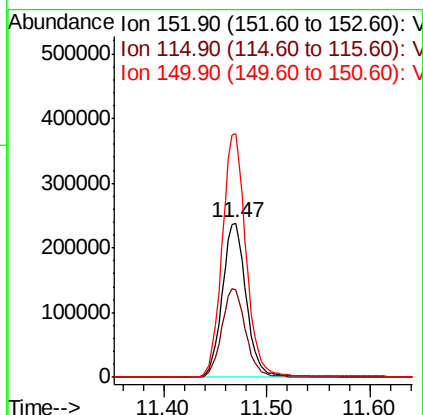
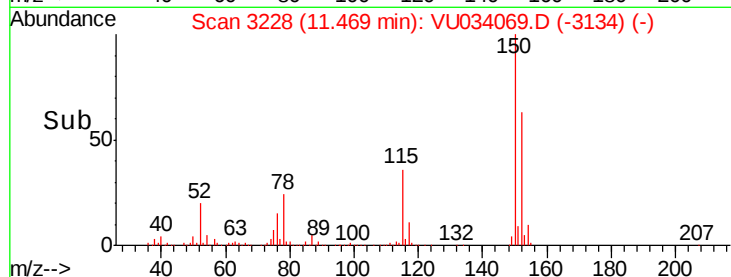
150 157.3 0.0 348.8



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: 20.161 ug/l

RT: 10.30 min Scan# 2863

Delta R.T. -0.18 min

Lab File: VU034069.D

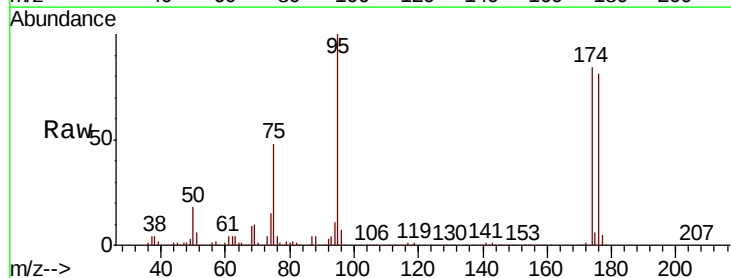
Acq: 29 Aug 2019 18:00

Tgt Ion: 75 Resp: 175924

Ion Ratio Lower Upper

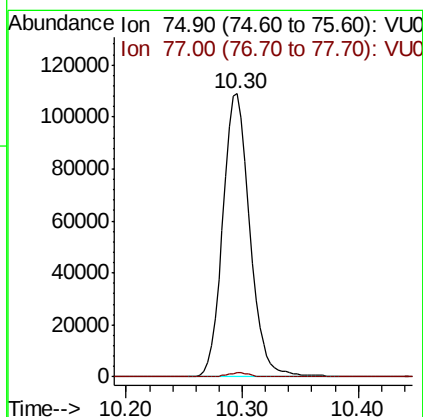
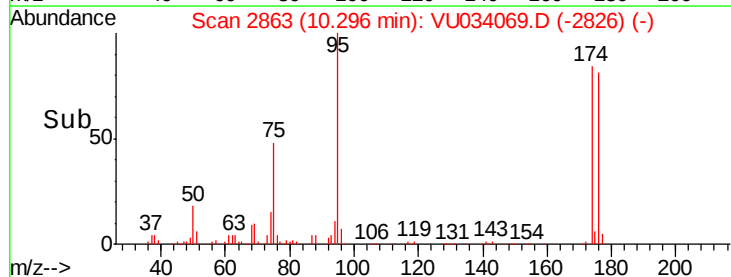
75 100

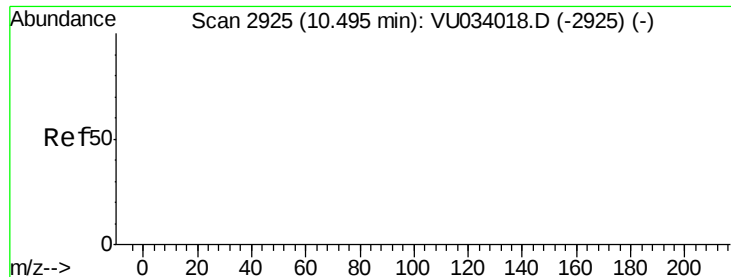
77 1.4 20.1 60.2#



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: 67.888 ug/l

RT: 10.30 min Scan# 2863

Delta R.T. -0.20 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

Instrument :

MSVOA_U

ClientSampleId :

S503-K2-9.5-10.0-082819-FDME

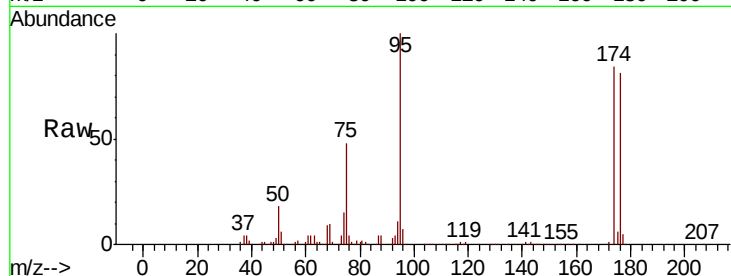
Tgt Ion: 75 Resp: 175924

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

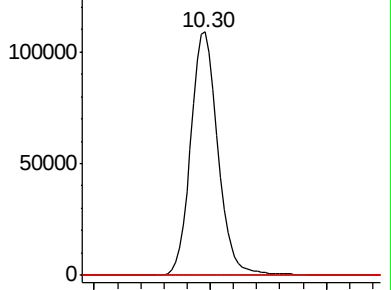
89 0.0 0.0 0.0



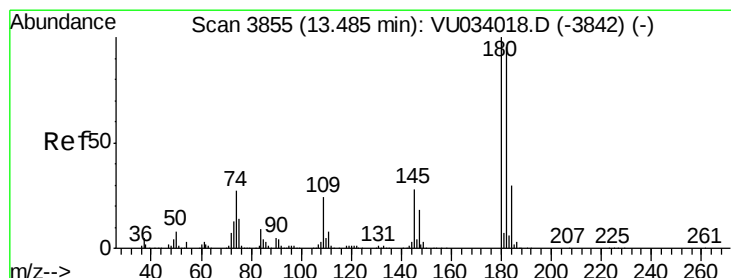
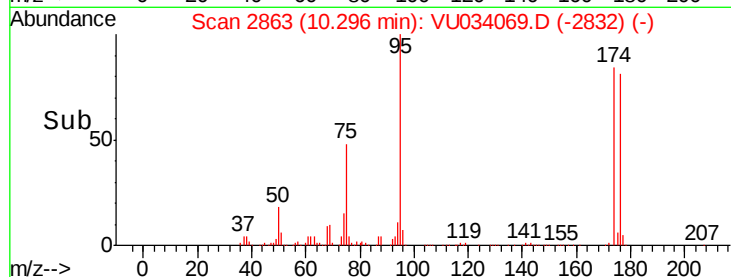
Abundance Ion 74.90 (74.60 to 75.60): VU034018.D (-2925) (-)

Ion 53.00 (52.70 to 53.70): VU034018.D (-2925) (-)

Ion 88.90 (88.60 to 89.60): VU034018.D (-2925) (-)



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 1.119 ug/l

RT: 13.54 min Scan# 3873

Delta R.T. 0.06 min

Lab File: VU034069.D

Acq: 29 Aug 2019 18:00

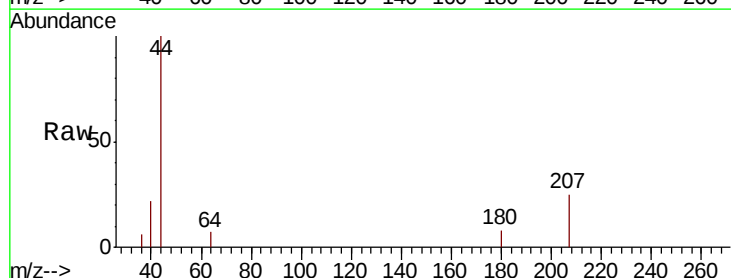
Tgt Ion: 180 Resp: 44

Ion Ratio Lower Upper

180 100

182 0.0 47.4 142.2#

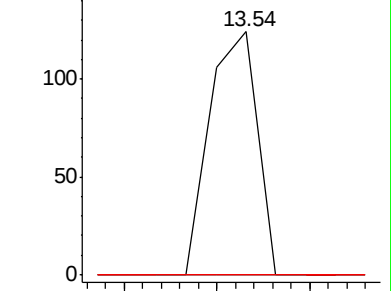
145 0.0 14.1 42.3#



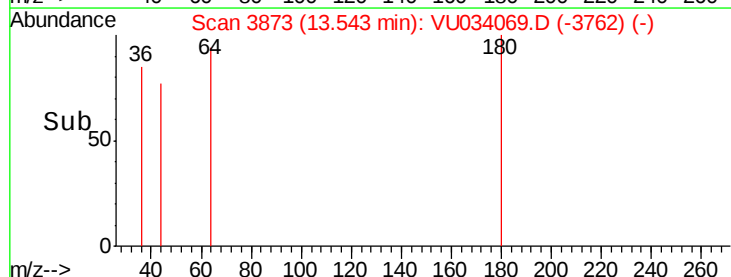
Abundance Ion 179.80 (179.50 to 180.50): VU034018.D (-3842) (-)

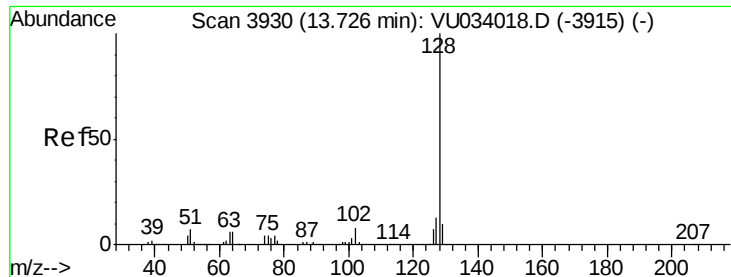
Ion 181.80 (181.50 to 182.50): VU034018.D (-3842) (-)

Ion 144.80 (144.50 to 145.50): VU034018.D (-3842) (-)



Time-->

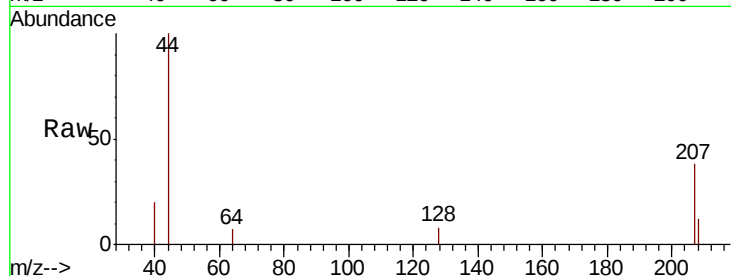




#95
 Naphthalene
 Concen: 1.792 ug/l
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.06 min
 Lab File: VU034069.D
 Acq: 29 Aug 2019 18:00

Instrument :
 MSVOA_U
 ClientSampleId :
 S503-K2-9.5-10.0-082819-FDME

Tgt Ion:128 Resp: 65
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.4 12.6#



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

