

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083119\
 Data File : VU034105.D
 Acq On : 30 Aug 2019 17:50
 Operator : JC/SP
 Sample : K4620-16MEDL 10X
 Misc : 6.28g/5mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S504-K2-9.5-10.0-082919MEDL

Quant Time: Aug 31 03:40:12 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	527140	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	823789	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	786661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	393787	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	305214	45.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.38%	
35) Dibromofluoromethane	4.86	113	253441	44.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.72%	
50) Toluene-d8	7.55	98	1030245	48.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.32%	
62) 4-Bromofluorobenzene	10.29	95	377348	45.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.68%	

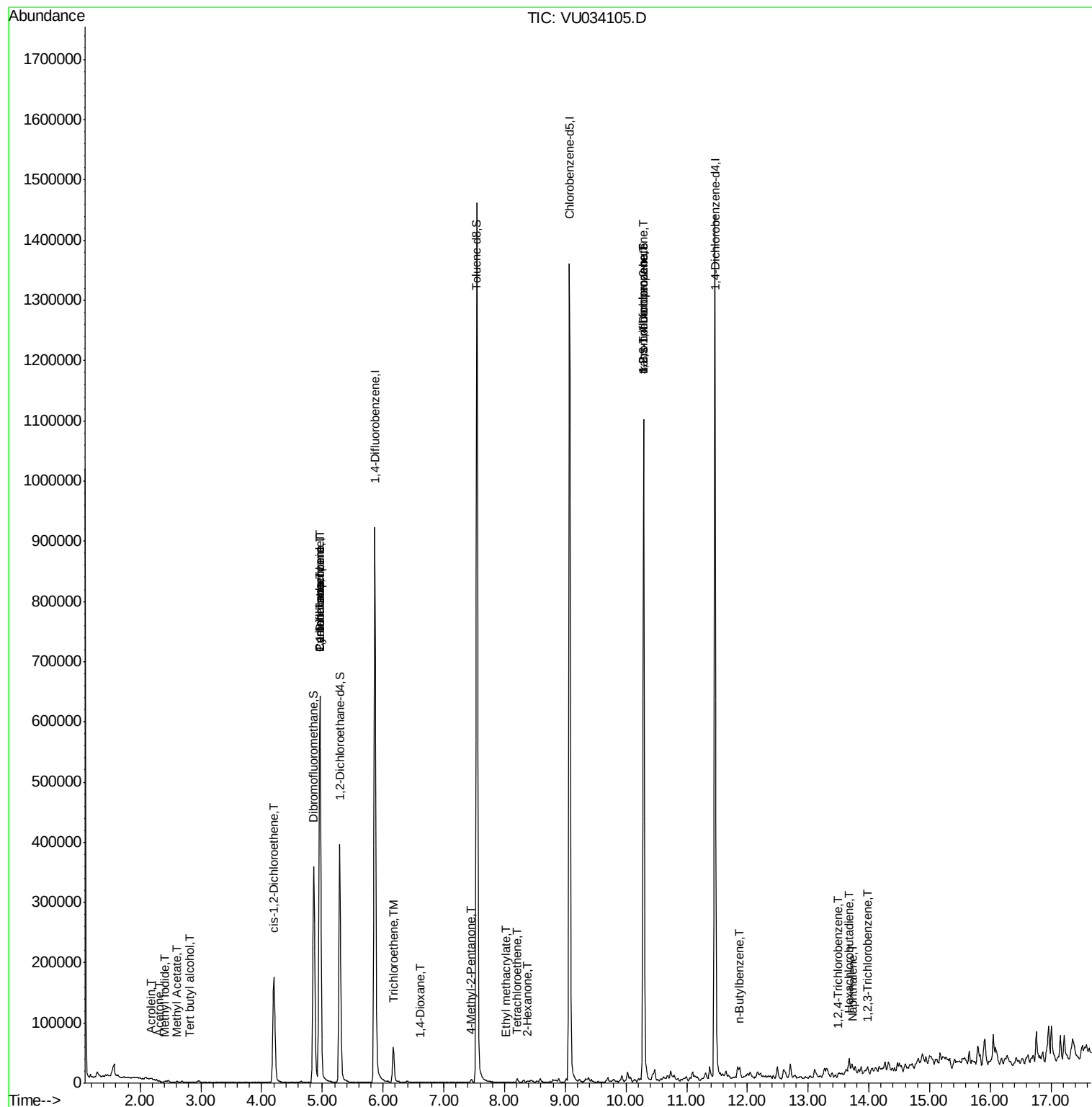
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1171	Below Cal		98
5) Bromomethane	1.61	94	1310	Below Cal		99
10) Methyl Iodide	2.40	142	1669	0.227	ug/l #	83
11) Tert butyl alcohol	2.82	59	827	0.531	ug/l #	73
13) Acrolein	2.18	56	270	0.412	ug/l #	1
16) Acetone	2.31	43	1444	0.419	ug/l	89
18) Methyl Acetate	2.61	43	2486	0.279	ug/l #	79
27) cis-1,2-Dichloroethene	4.20	96	105502	16.412	ug/l	89
31) Cyclohexane	4.96	56	9152	0.907	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	37192	4.773	ug/l #	49
38) Carbon Tetrachloride	4.96	117	47648	6.335	ug/l #	16
44) Trichloroethene	6.17	130	22154	3.579	ug/l	98
49) 1,4-Dioxane	6.61	88	174	1.084	ug/l #	14
51) 4-Methyl-2-Pentanone	7.45	43	4154	0.453	ug/l	99
56) Ethyl methacrylate	8.03	69	274	0.998	ug/l #	42
59) 2-Hexanone	8.38	43	2027	0.293	ug/l	96
64) Tetrachloroethene	8.21	164	1057	0.200	ug/l #	93
76) 1,2,3-Trichloropropane	10.29	75	181842	20.489	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	181842	68.990	ug/l #	100
89) n-Butylbenzene	11.87	91	5649	0.268	ug/l	95
93) 1,2,4-Trichlorobenzene	13.50	180	2507	1.400	ug/l	95
94) Hexachlorobutadiene	13.67	225	4841	1.026	ug/l	95
95) Naphthalene	13.74	128	15441	2.396	ug/l #	88
96) 1,2,3-Trichlorobenzene	13.98	180	3203	0.414	ug/l	89

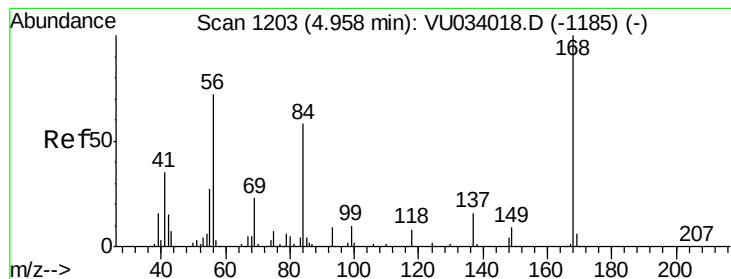
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_U\DATA\VU083119\
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Misc : 6.28g/5mL/100uL/5.0mL/MSVOA_U/MEOH
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S504-K2-9.5-10.0-082919MEDL

Quant Time: Aug 31 03:40:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 04:11:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

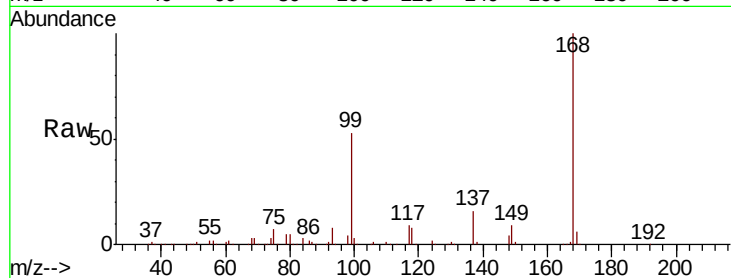
S504-K2-9.5-10.0-082919MEDL

Tgt Ion:168 Resp: 527140

Ion Ratio Lower Upper

168 100

99 52.7 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

250000

200000

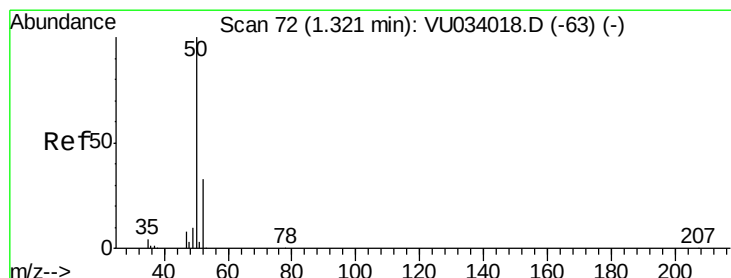
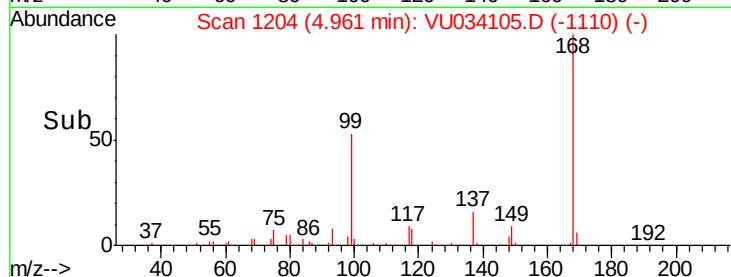
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034105.D

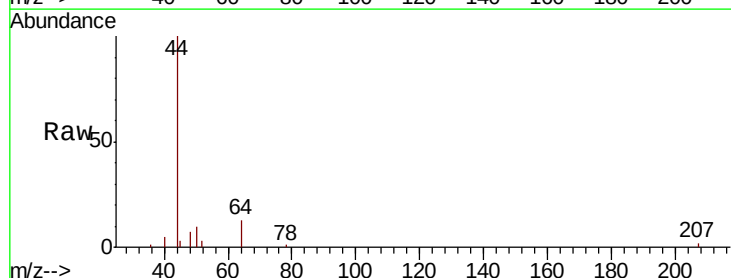
Acq: 30 Aug 2019 17:50

Tgt Ion: 50 Resp: 1171

Ion Ratio Lower Upper

50 100

52 31.8 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

1000

800

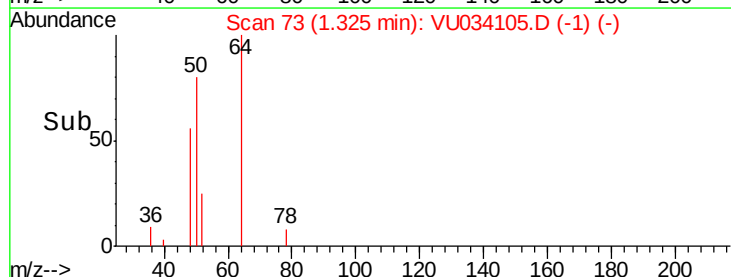
600

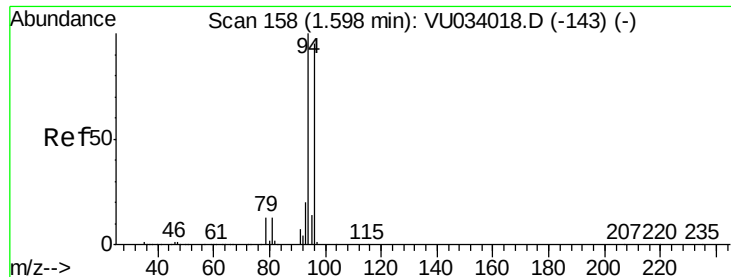
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 163

Delta R.T. 0.02 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

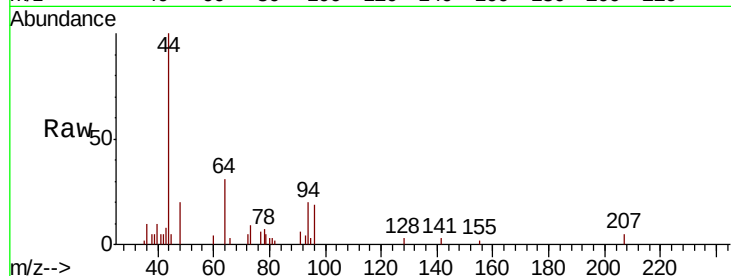
S504-K2-9.5-10.0-082919MEDL

Tgt Ion: 94 Resp: 1310

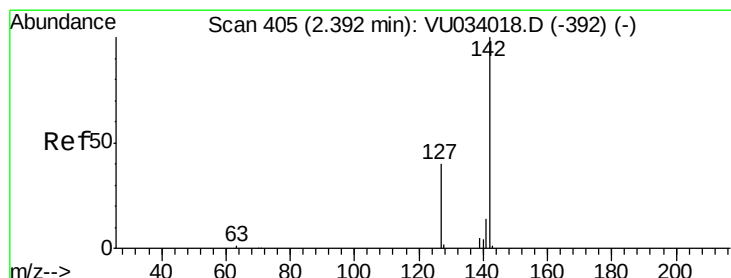
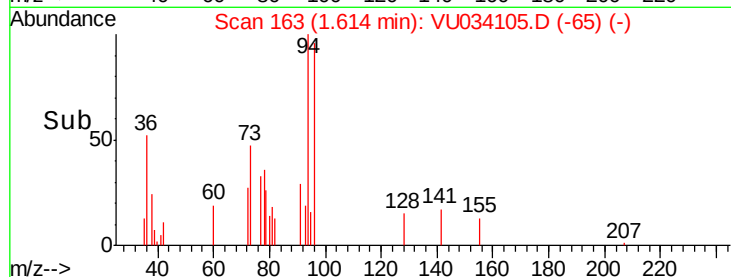
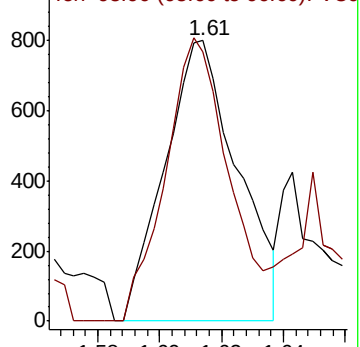
Ion Ratio Lower Upper

94 100

96 96.1 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034105.D (-163) (-)



#10

Methyl Iodide

Concen: 0.227 ug/l

RT: 2.40 min Scan# 407

Delta R.T. 0.01 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

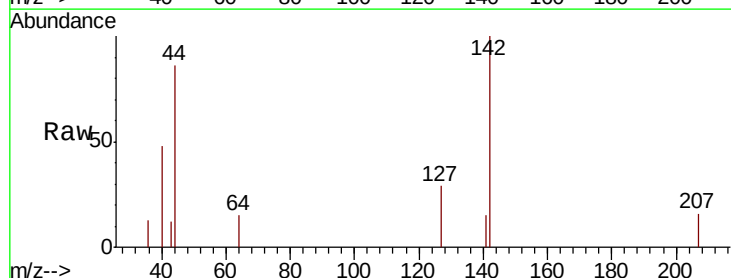
Tgt Ion: 142 Resp: 1669

Ion Ratio Lower Upper

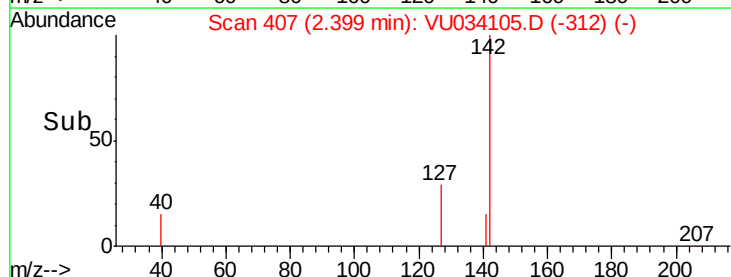
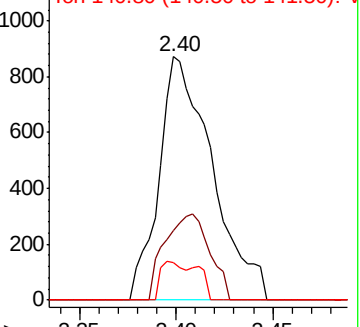
142 100

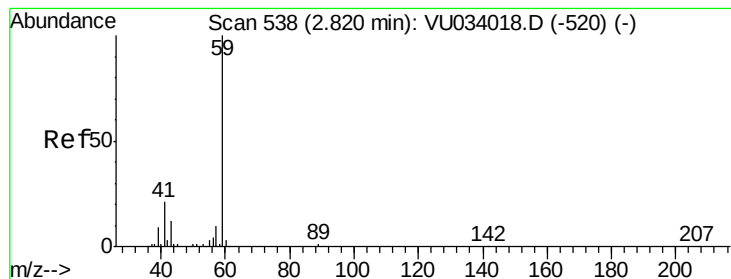
127 29.9 32.6 48.8#

141 7.1 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VU034105.D (-407) (-)





#11

Tert butyl alcohol

Concen: 0.531 ug/l

RT: 2.82 min Scan# 537

Delta R.T. -0.00 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

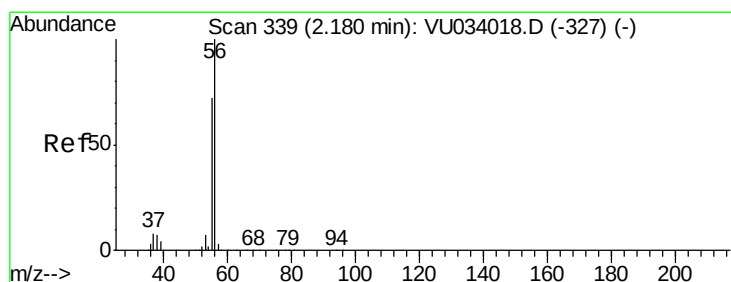
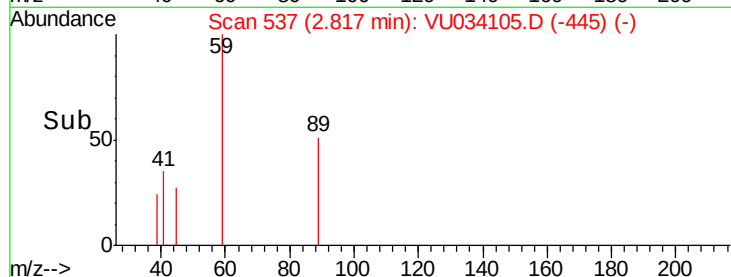
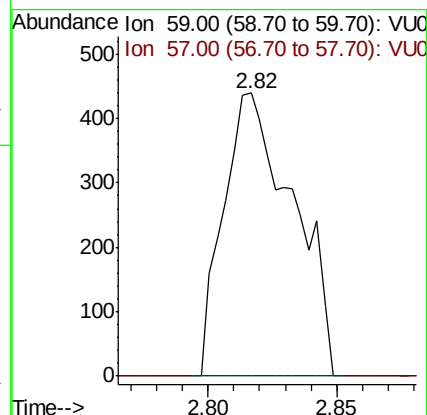
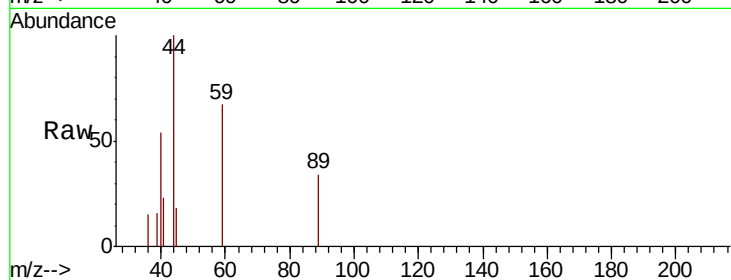
S504-K2-9.5-10.0-082919MEDL

Tgt Ion: 59 Resp: 827

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



#13

Acrolein

Concen: 0.412 ug/l

RT: 2.18 min Scan# 339

Delta R.T. -0.00 min

Lab File: VU034105.D

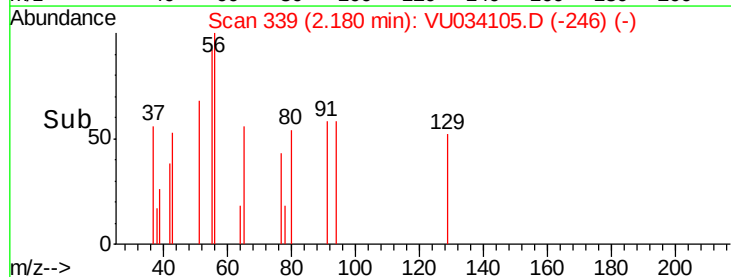
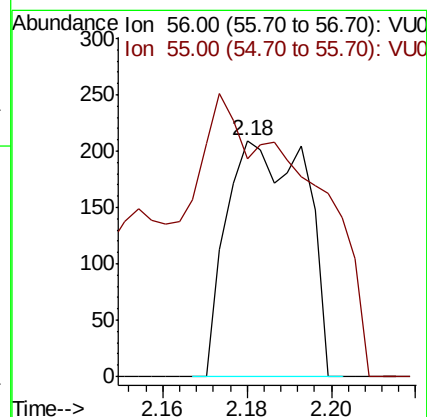
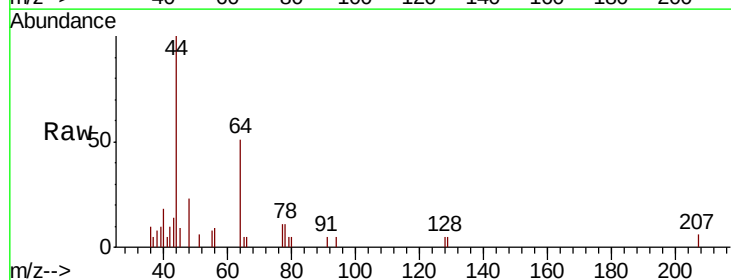
Acq: 30 Aug 2019 17:50

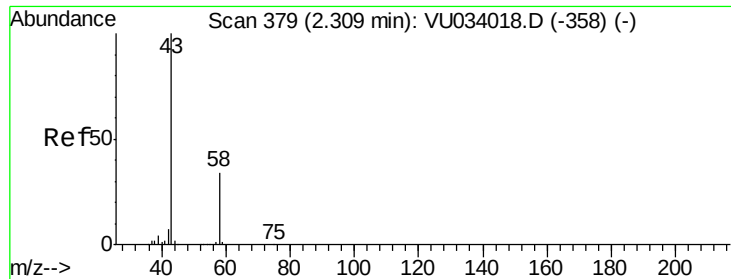
Tgt Ion: 56 Resp: 270

Ion Ratio Lower Upper

56 100

55 181.1 57.1 85.7#





#16

Acetone

Concen: 0.419 ug/l

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

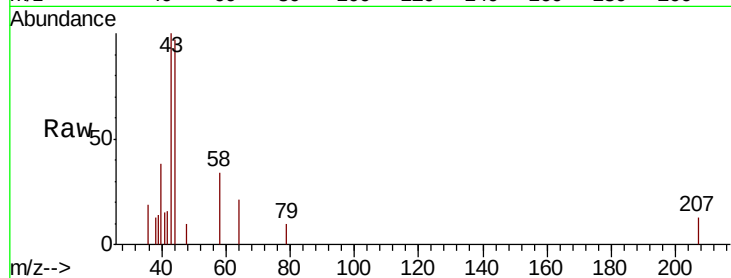
S504-K2-9.5-10.0-082919MEDL

Tgt Ion: 43 Resp: 1444

Ion Ratio Lower Upper

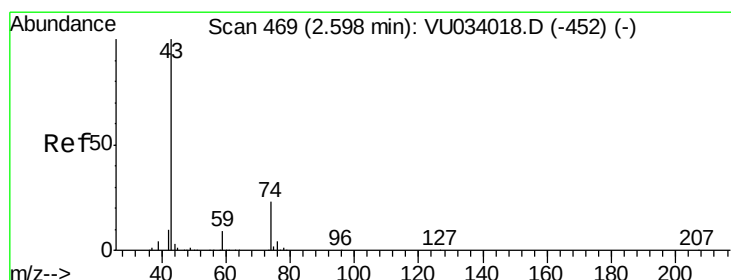
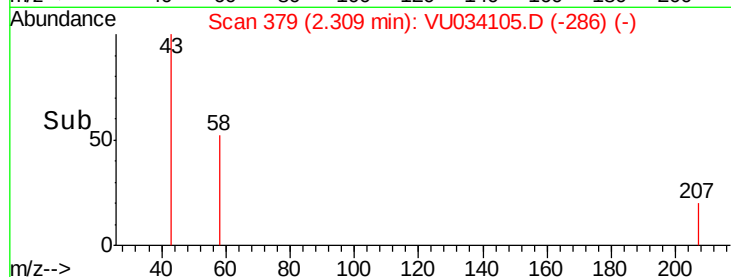
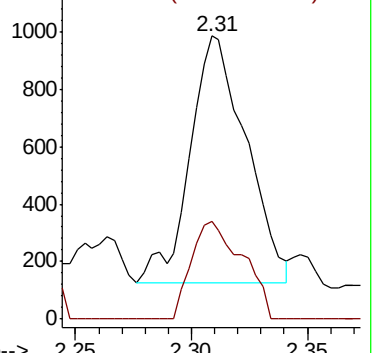
43 100

58 39.5 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034105.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034105.D (-358) (-)



#18

Methyl Acetate

Concen: 0.279 ug/l

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU034105.D

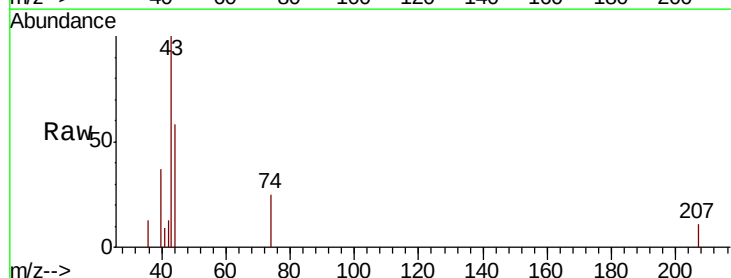
Acq: 30 Aug 2019 17:50

Tgt Ion: 43 Resp: 2486

Ion Ratio Lower Upper

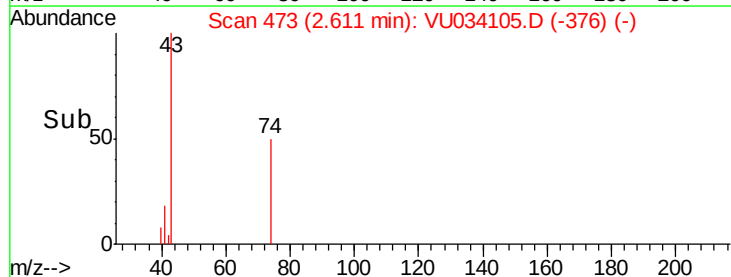
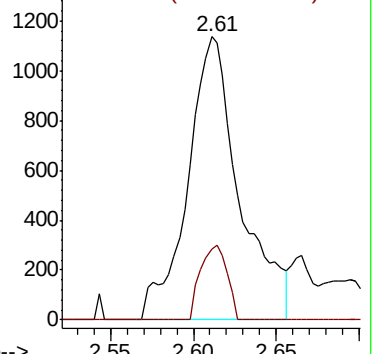
43 100

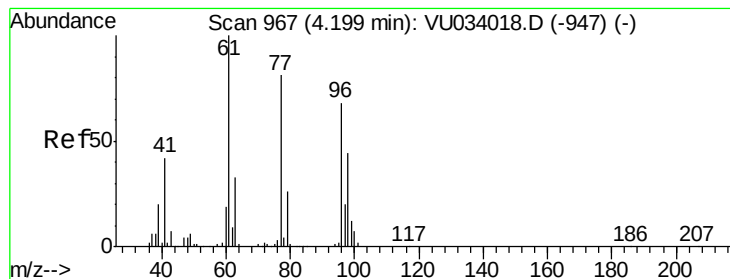
74 13.5 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VU034105.D (-452) (-)

Ion 74.00 (73.70 to 74.70): VU034105.D (-452) (-)



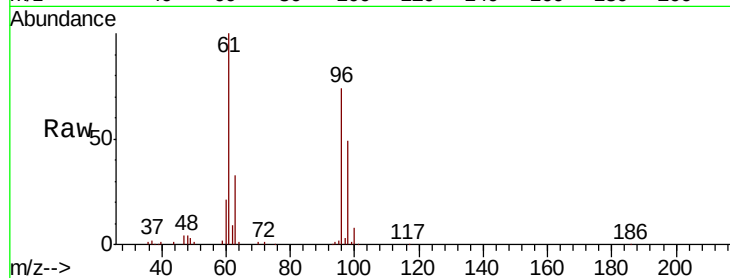


#27

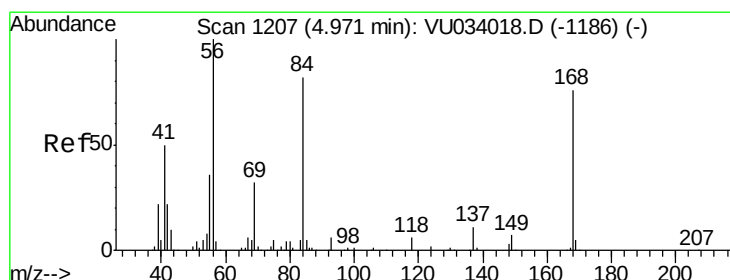
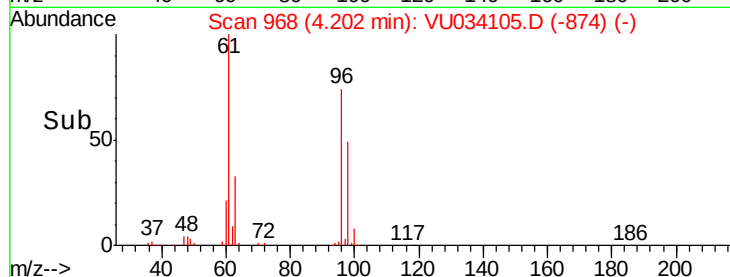
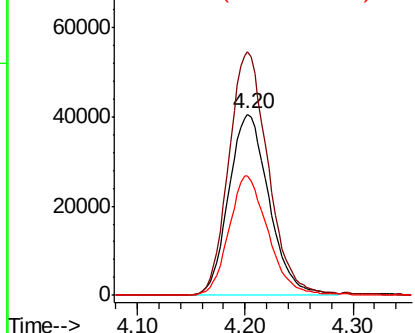
cis-1,2-Dichloroethene
 Concen: 16.412 ug/l
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

Instrument :
 MSVOA_U
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 S504-K2-9.5-10.0-082919MEDL

Tgt Ion	Ratio	Lower	Upper
96	100		
61	131.4	0.0	303.0
98	64.2	0.0	129.2



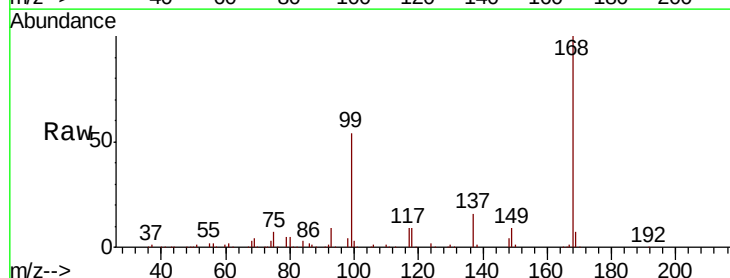
Abundance Ion 95.90 (95.60 to 96.60): VU0
 Ion 60.90 (60.60 to 61.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0



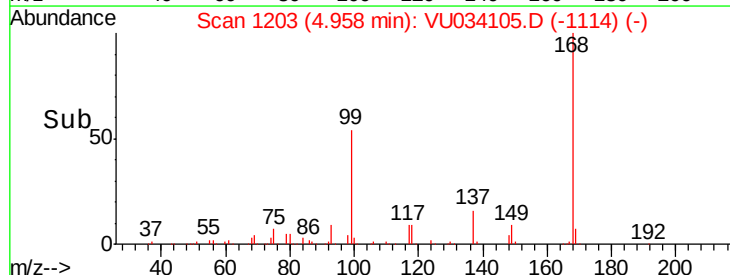
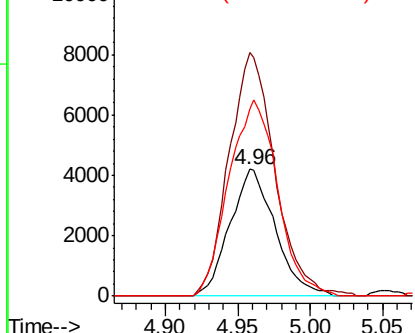
#31

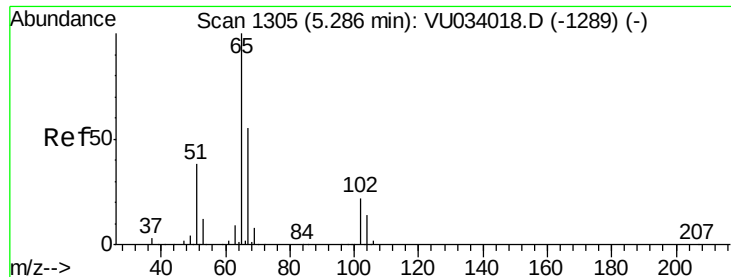
Cyclohexane
 Concen: 0.907 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

Tgt Ion	Ratio	Lower	Upper
56	100		
69	192.1	25.4	38.0#
84	147.8	65.8	98.8#



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

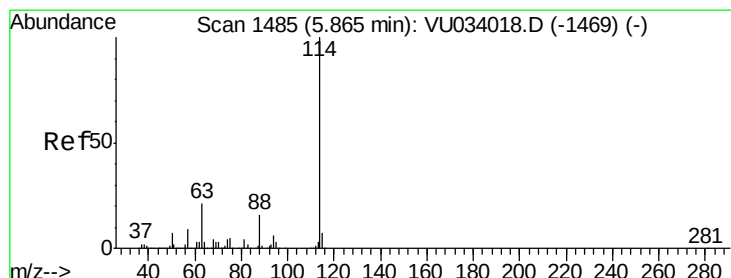
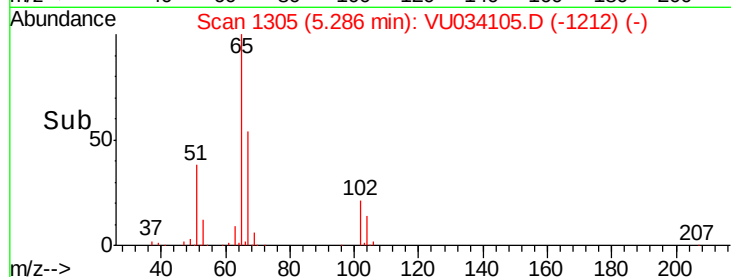
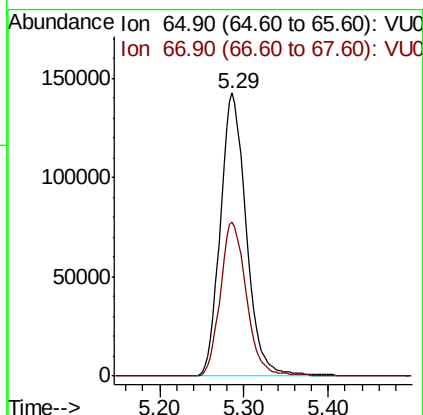
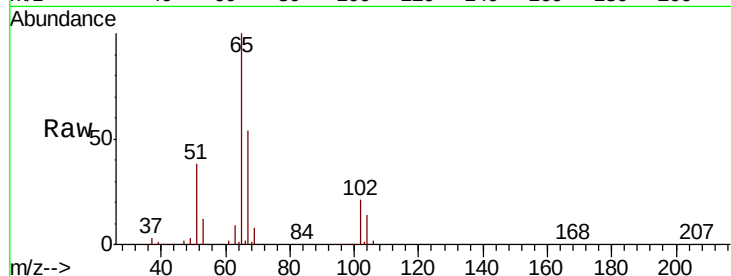




#33
 1,2-Dichloroethane-d4
 Concen: 45.187 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

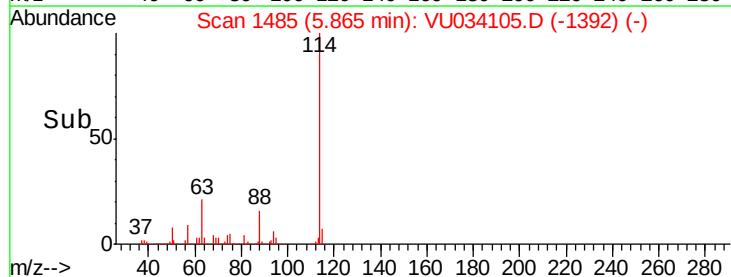
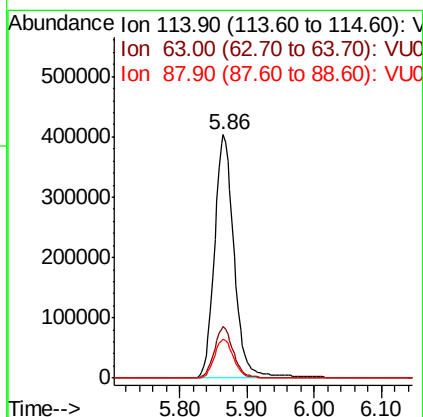
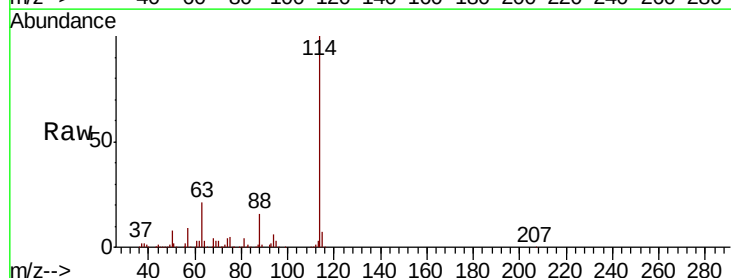
Instrument :
 MSVOA_U
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 S504-K2-9.5-10.0-082919MEDL

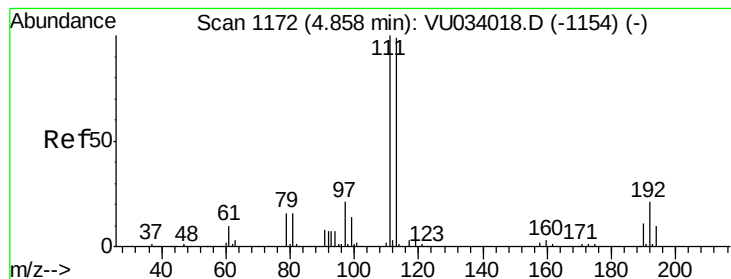
Tgt Ion: 65 Resp: 305214
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. -0.00 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

Tgt Ion: 114 Resp: 823789
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 42.0
 88 16.0 0.0 32.0





#35

Dibromofluoromethane

Concen: 44.357 ug/l

RT: 4.86 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

S504-K2-9.5-10.0-082919MEDL

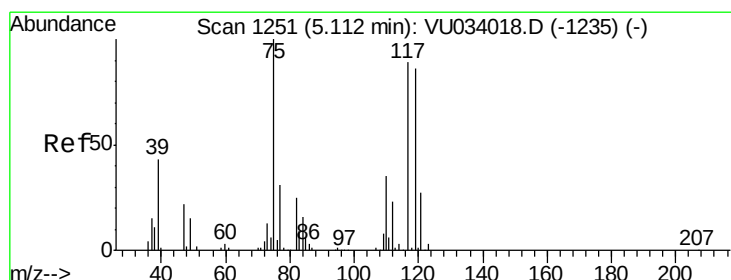
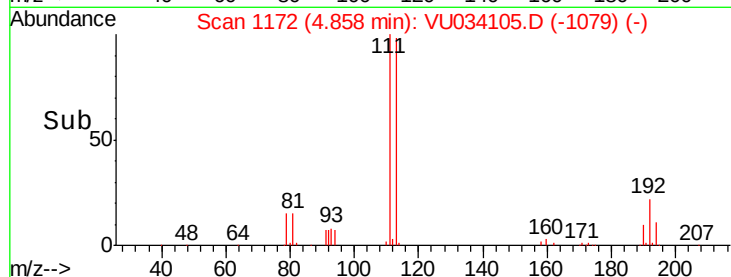
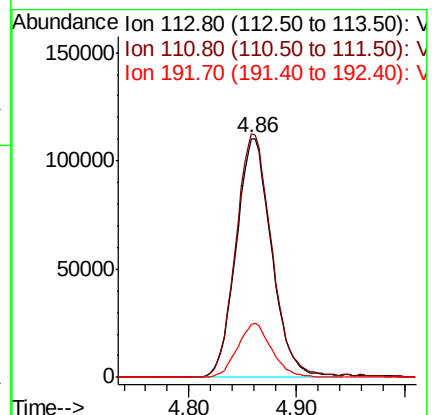
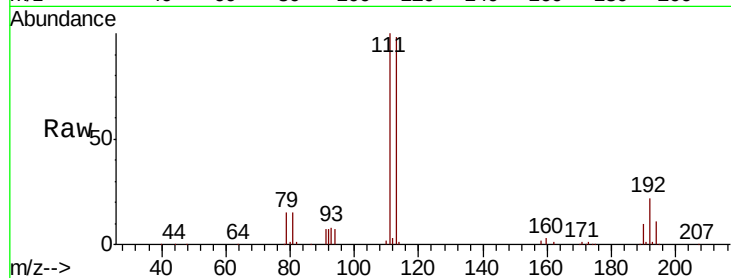
Tgt Ion: 113 Resp: 253441

Ion Ratio Lower Upper

113 100

111 102.8 81.7 122.5

192 21.8 17.1 25.7



#36

1,1-Dichloropropene

Concen: 4.773 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

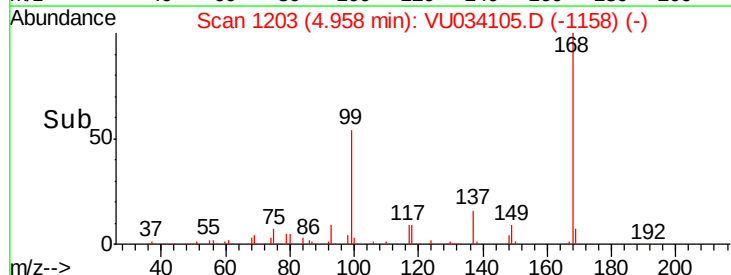
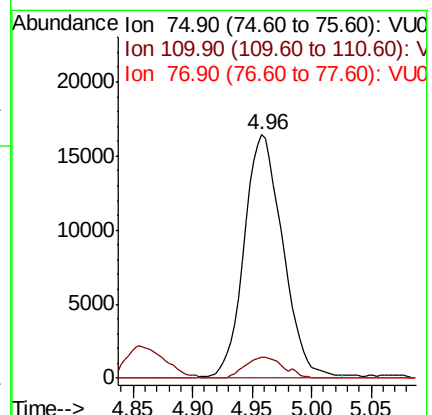
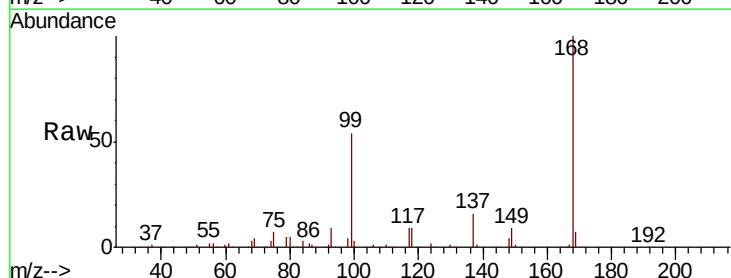
Tgt Ion: 75 Resp: 37192

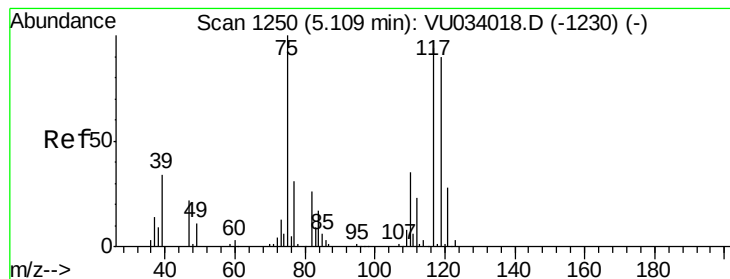
Ion Ratio Lower Upper

75 100

110 8.4 17.8 53.5#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.335 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

S504-K2-9.5-10.0-082919MEDL

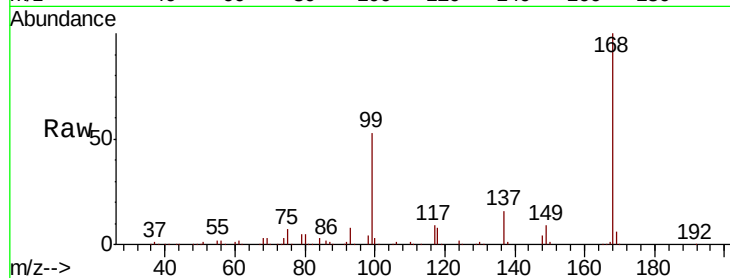
Tgt Ion:117 Resp: 47648

Ion Ratio Lower Upper

117 100

119 5.3 77.0 115.4#

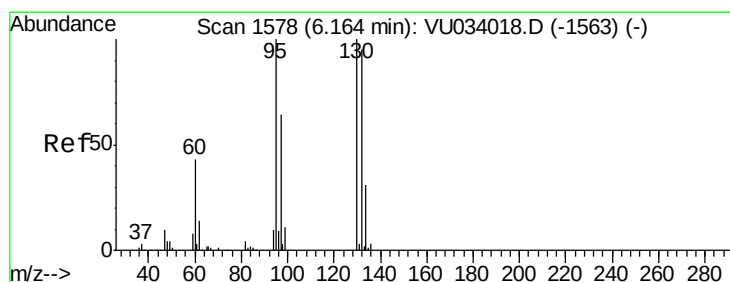
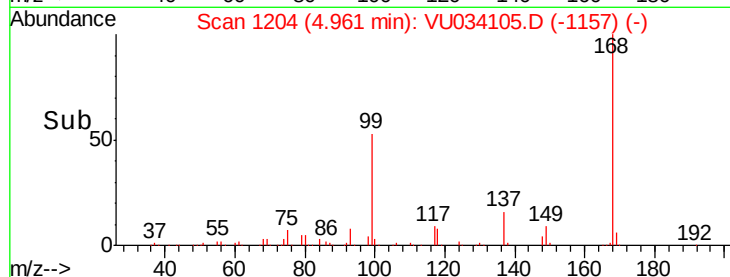
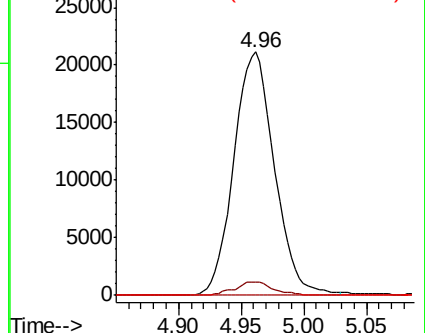
121 0.0 23.9 35.9#



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



#44

Trichloroethene

Concen: 3.579 ug/l

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034105.D

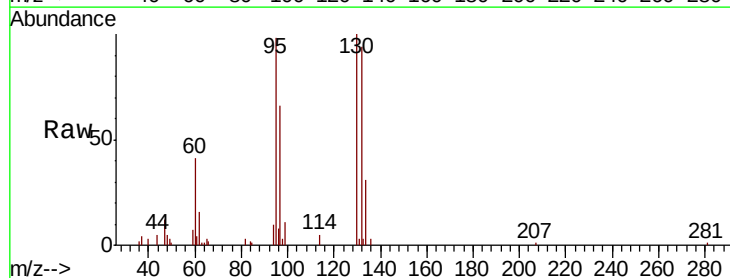
Acq: 30 Aug 2019 17:50

Tgt Ion:130 Resp: 22154

Ion Ratio Lower Upper

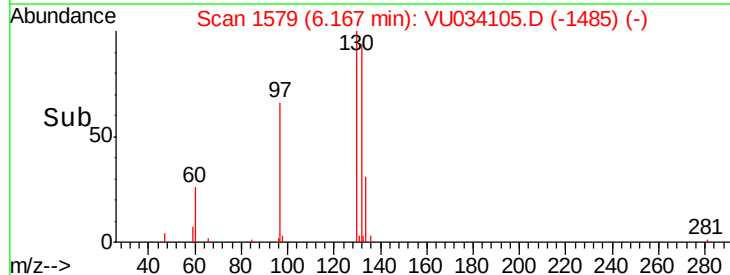
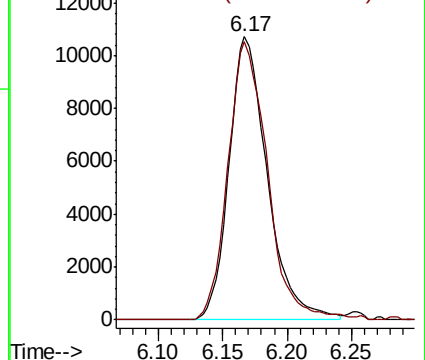
130 100

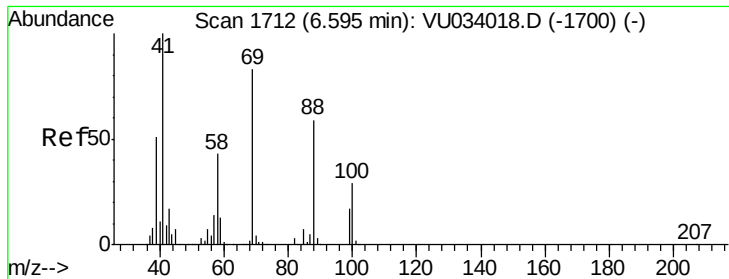
95 98.1 0.0 199.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

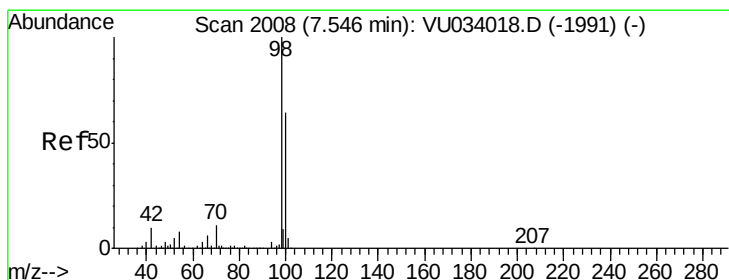
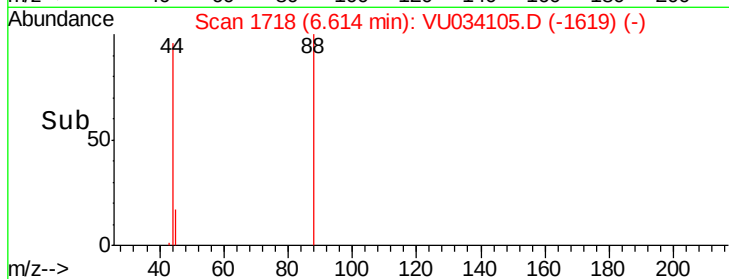
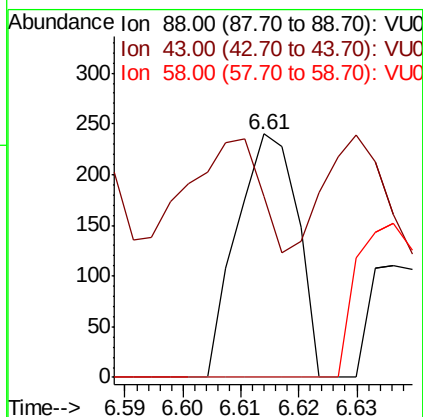
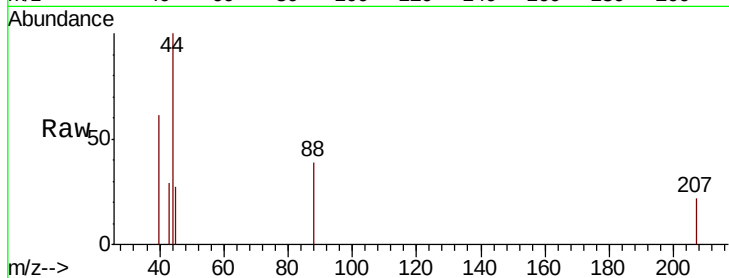




#49
1,4-Dioxane
Concen: 1.084 ug/l
RT: 6.61 min Scan# 1718
Delta R.T. 0.02 min
Lab File: VU034105.D
Acq: 30 Aug 2019 17:50

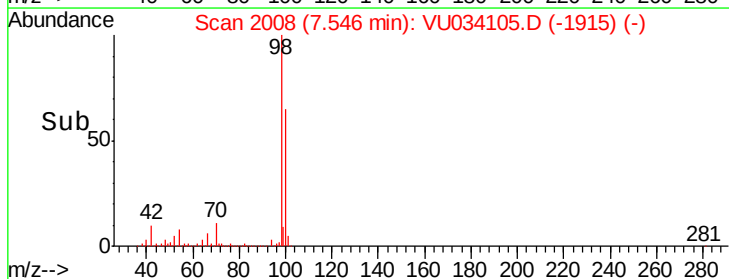
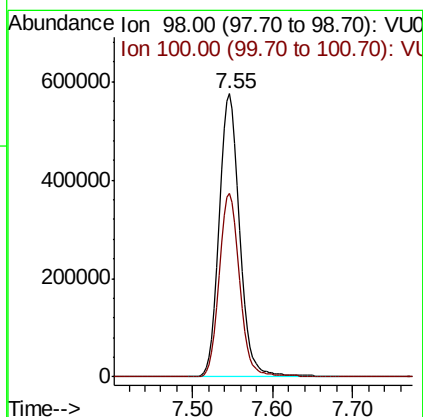
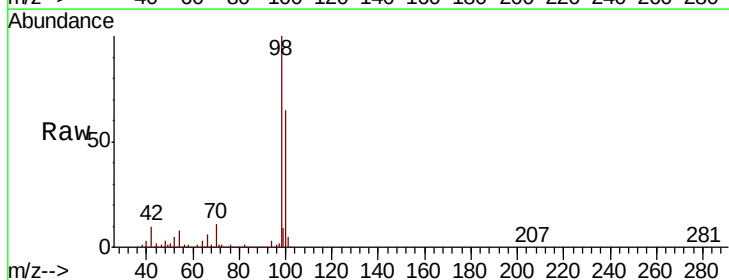
Instrument :
MSVOA_U
ClientSampleId :
S504-K2-9.5-10.0-082919MEDL

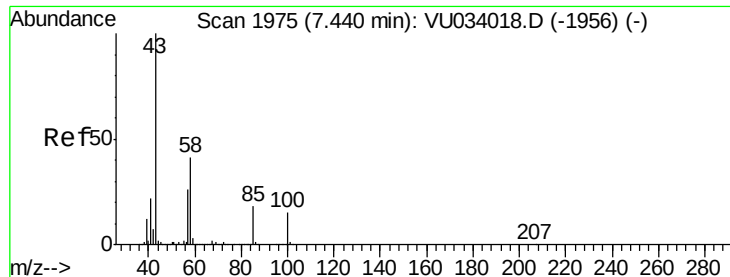
Tgt Ion: 88 Resp: 174
Ion Ratio Lower Upper
88 100
43 75.9 24.8 37.2#
58 0.0 59.3 88.9#



#50
Toluene-d8
Concen: 48.155 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034105.D
Acq: 30 Aug 2019 17:50

Tgt Ion: 98 Resp: 1030245
Ion Ratio Lower Upper
98 100
100 64.9 50.3 75.5

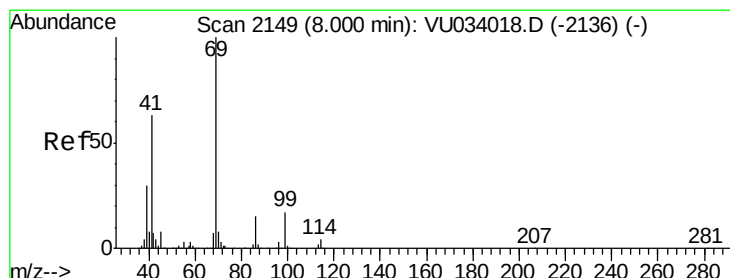
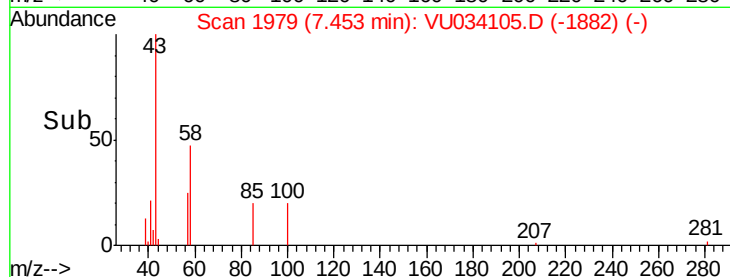
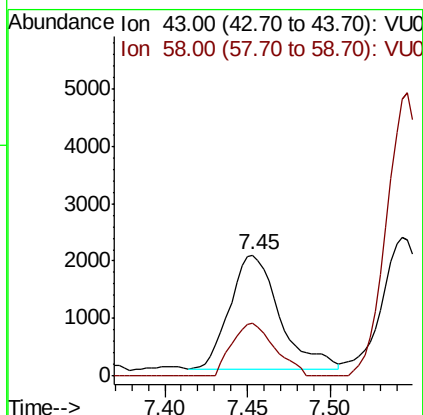
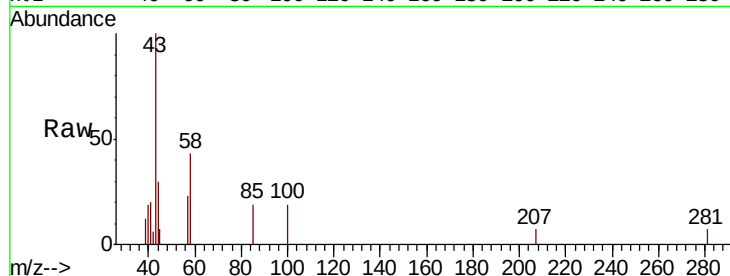




#51
 4-Methyl-2-Pentanone
 Concen: 0.453 ug/l
 RT: 7.45 min Scan# 1979
 Delta R.T. 0.01 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

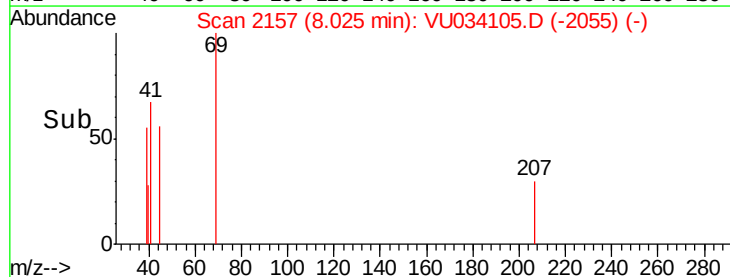
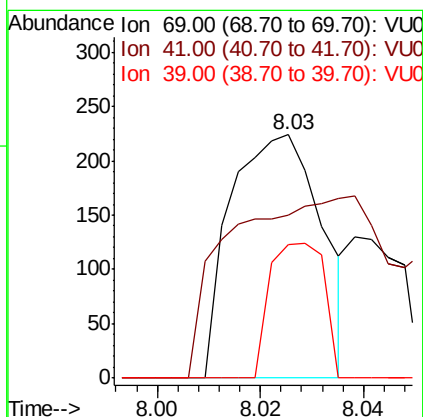
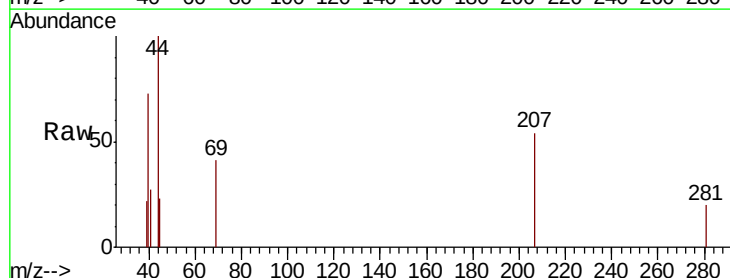
Instrument :
 MSVOA_U
 ClientSampleId :
 S504-K2-9.5-10.0-082919MEDL

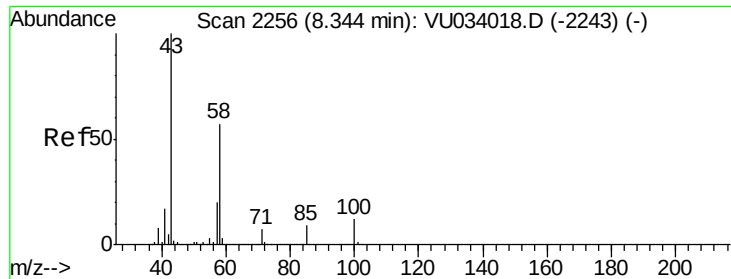
Tgt Ion: 43 Resp: 4154
 Ion Ratio Lower Upper
 43 100
 58 39.7 32.2 48.4



#56
 Ethyl methacrylate
 Concen: 0.998 ug/l
 RT: 8.03 min Scan# 2157
 Delta R.T. 0.03 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

Tgt Ion: 69 Resp: 274
 Ion Ratio Lower Upper
 69 100
 41 128.1 50.7 76.1#
 39 32.8 24.2 36.2

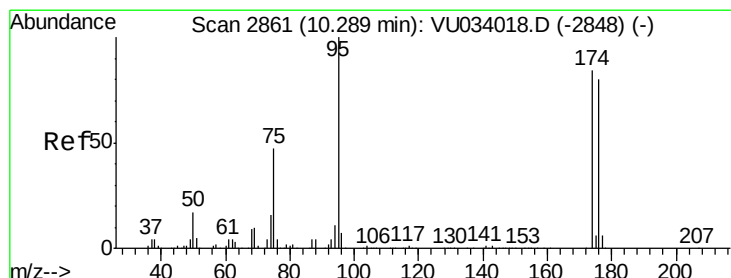
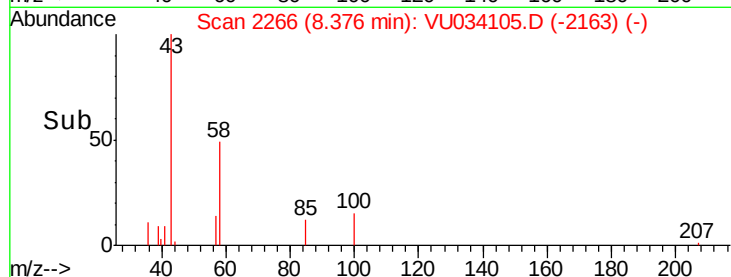
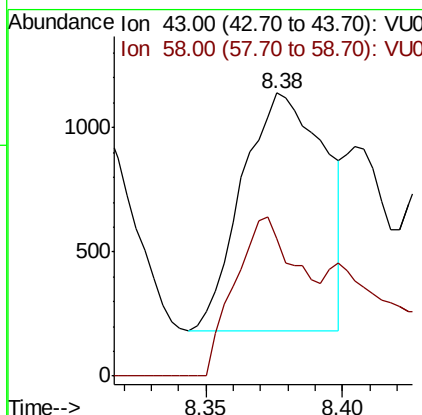
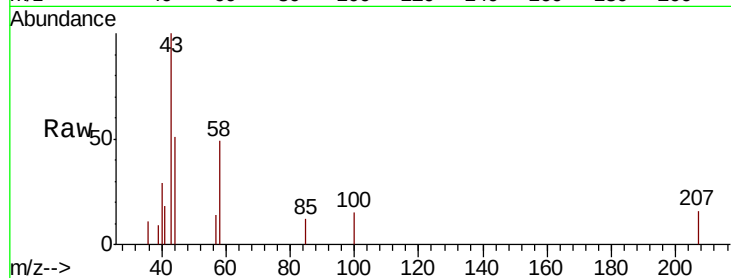




#59
2-Hexanone
Concen: 0.293 ug/l
RT: 8.38 min Scan# 2266
Delta R.T. 0.03 min
Lab File: VU034105.D
Acq: 30 Aug 2019 17:50

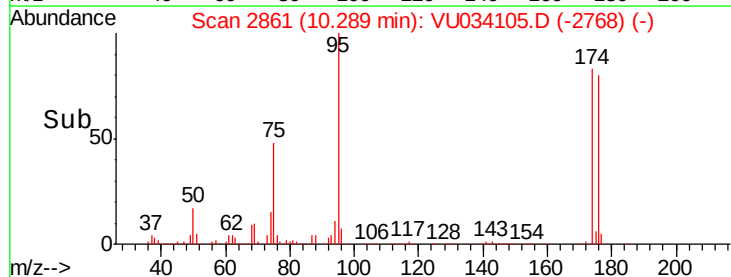
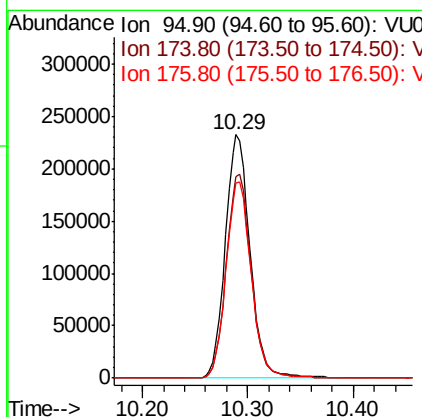
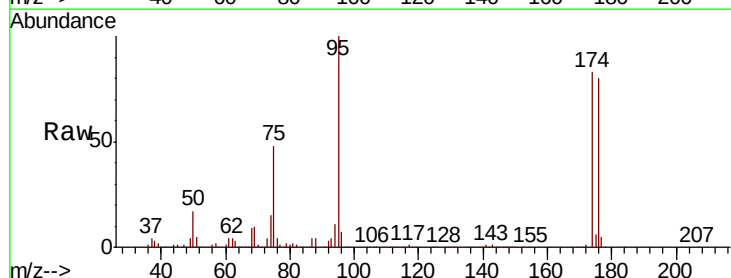
Instrument :
MSVOA_U
ClientSampleId :
S504-K2-9.5-10.0-082919MEDL

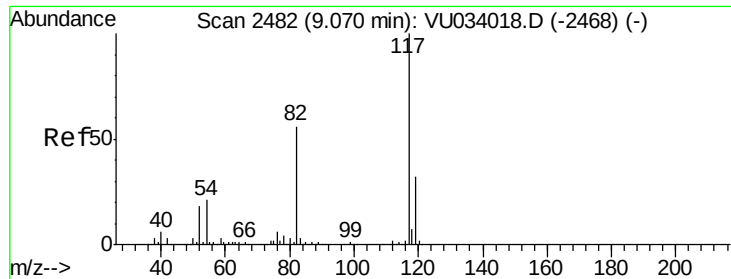
Tgt Ion: 43 Resp: 2027
Ion Ratio Lower Upper
43 100
58 54.3 28.4 85.3



#62
4-Bromofluorobenzene
Concen: 45.342 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034105.D
Acq: 30 Aug 2019 17:50

Tgt Ion: 95 Resp: 377348
Ion Ratio Lower Upper
95 100
174 84.2 0.0 168.8
176 82.0 0.0 161.8

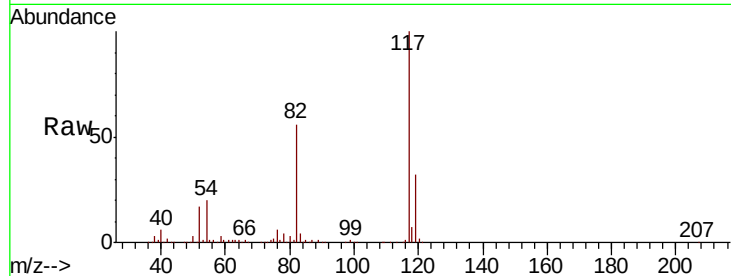




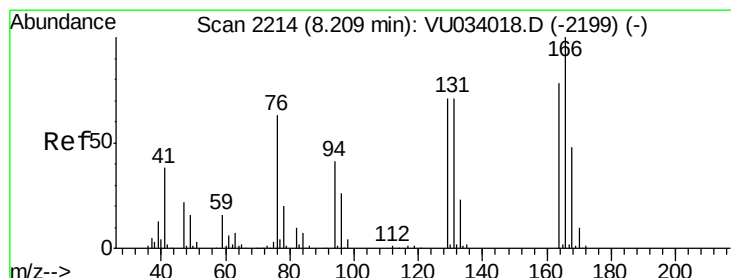
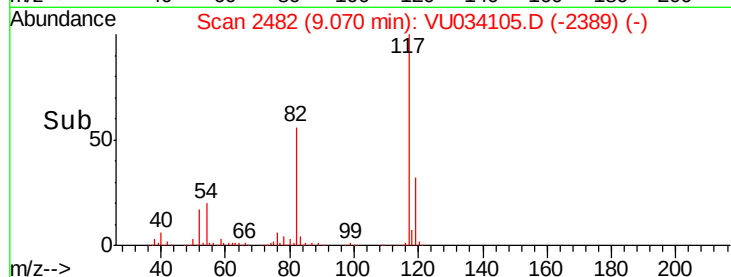
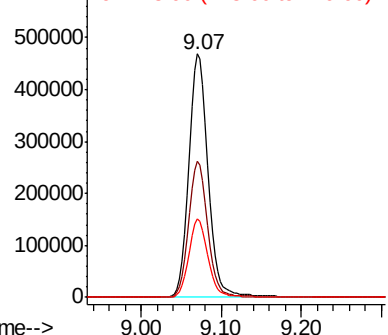
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034105.D
Acq: 30 Aug 2019 17:50

Instrument :
MSVOA_U
ClientSampleId :
S504-K2-9.5-10.0-082919MEDL

Tgt Ion:117 Resp: 786661
Ion Ratio Lower Upper
117 100
82 55.7 45.1 67.7
119 32.1 25.4 38.0

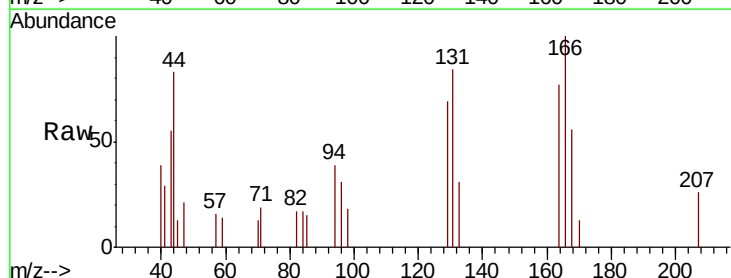


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

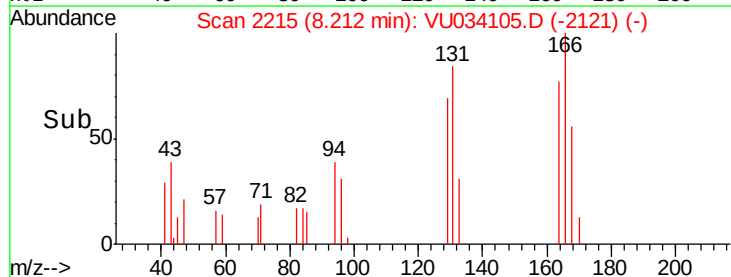
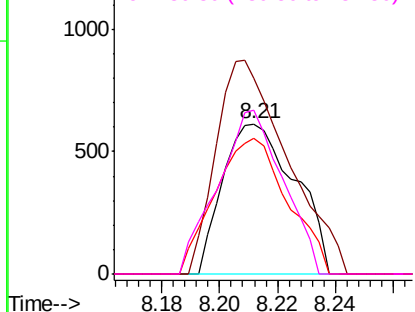


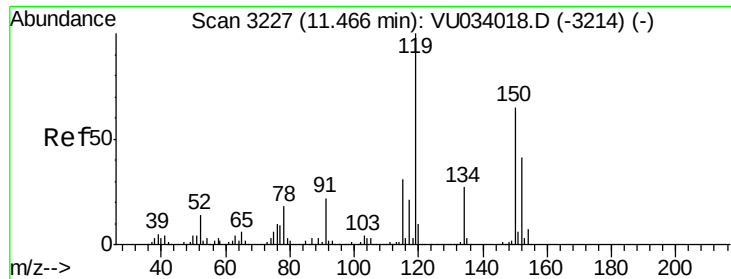
#64
Tetrachloroethene
Concen: 0.200 ug/l
RT: 8.21 min Scan# 2215
Delta R.T. 0.00 min
Lab File: VU034105.D
Acq: 30 Aug 2019 17:50

Tgt Ion:164 Resp: 1057
Ion Ratio Lower Upper
164 100
166 130.5 102.2 153.2
129 90.4 72.4 108.6
131 109.4 72.1 108.1#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

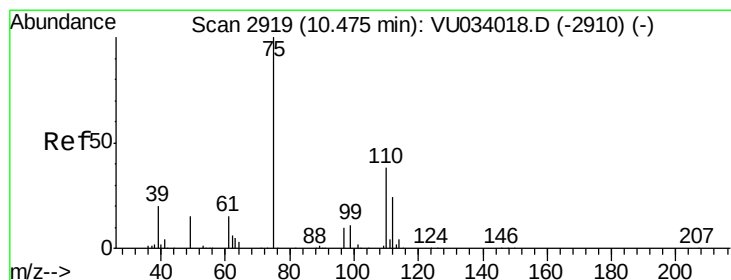
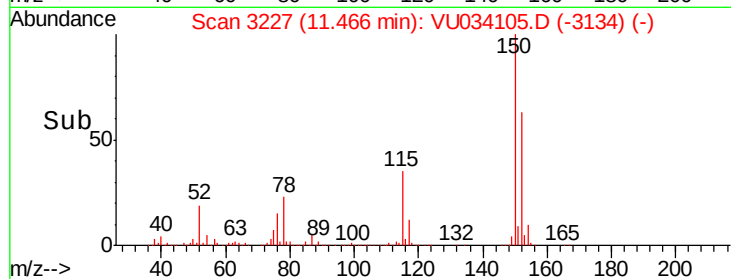
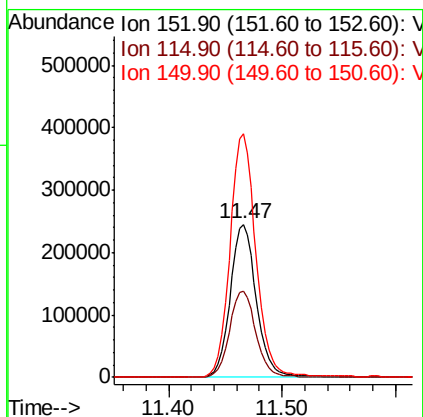
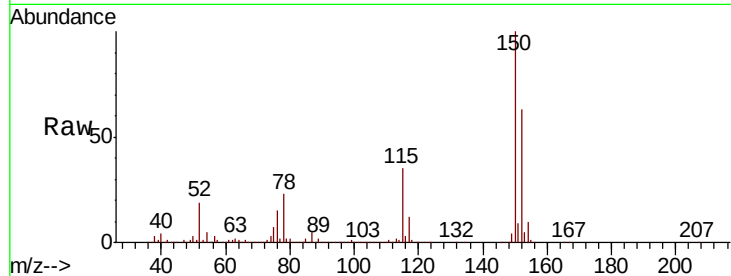




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.47 min Scan# 3227
 Delta R.T. -0.00 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

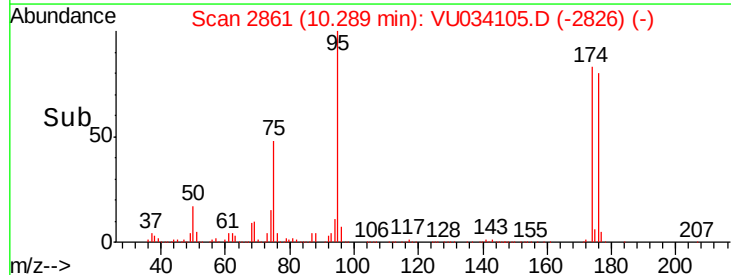
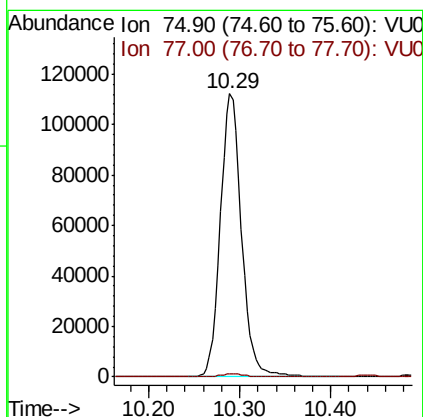
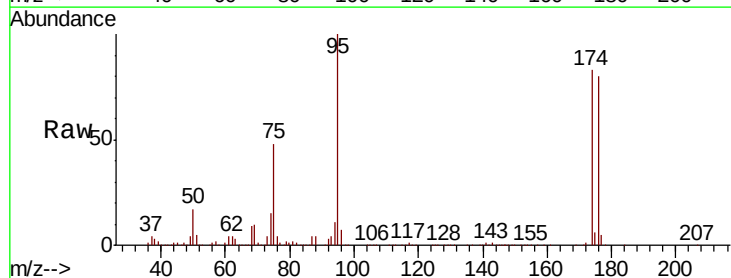
Instrument :
 MSVOA_U
 ClientSampleId :
 S504-K2-9.5-10.0-082919MEDL

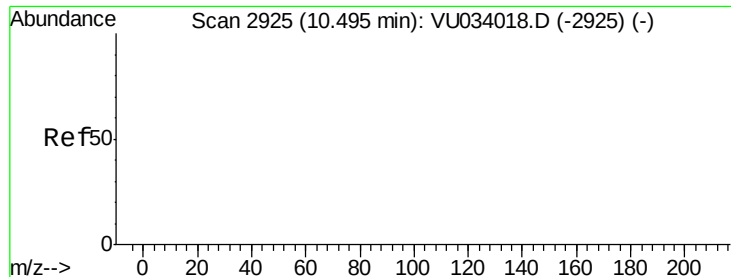
Tgt Ion:152 Resp: 393787
 Ion Ratio Lower Upper
 152 100
 115 57.1 41.1 123.3
 150 158.4 0.0 348.8



#76
 1,2,3-Trichloropropane
 Concen: 20.489 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

Tgt Ion: 75 Resp: 181842
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.1 60.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 68.990 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

S504-K2-9.5-10.0-082919MEDL

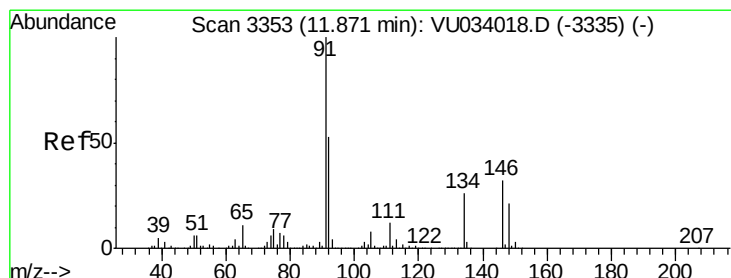
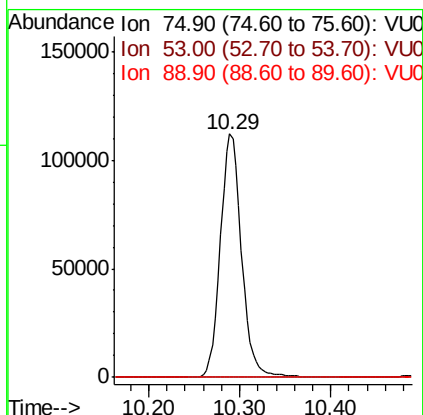
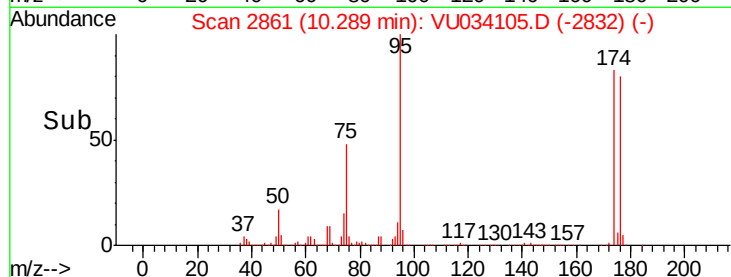
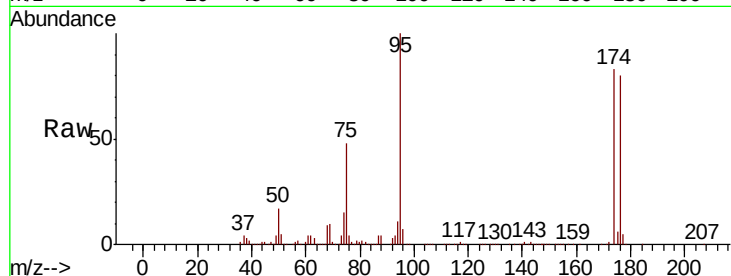
Tgt Ion: 75 Resp: 181842

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

89 0.0 0.0 0.0



#89

n-Butylbenzene

Concen: 0.268 ug/l

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU034105.D

Acq: 30 Aug 2019 17:50

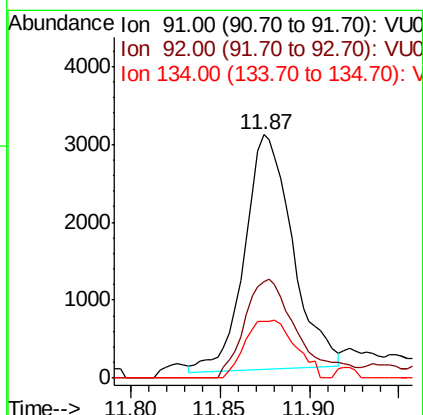
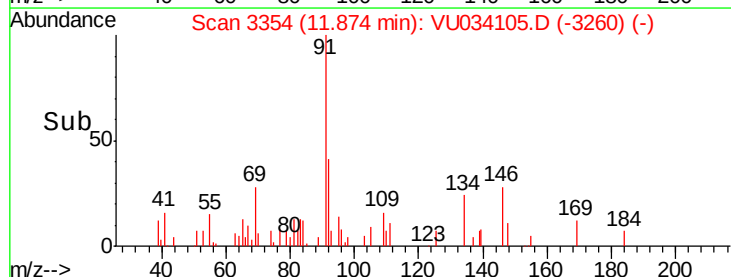
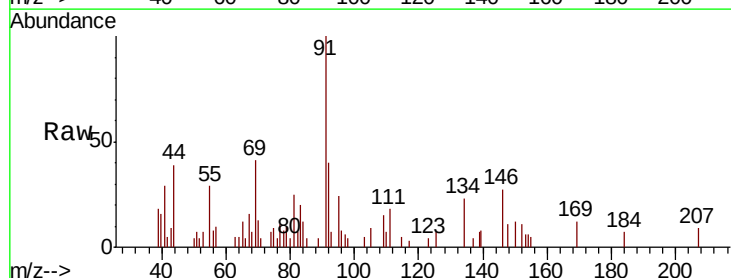
Tgt Ion: 91 Resp: 5649

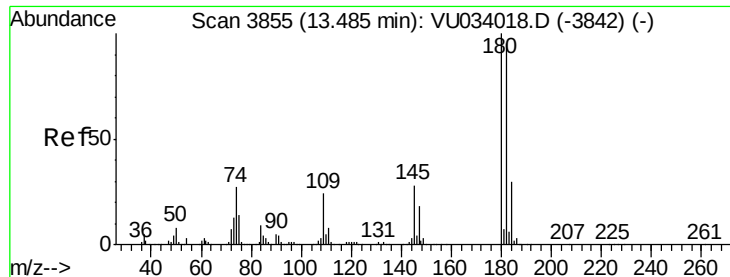
Ion Ratio Lower Upper

91 100

92 46.9 26.3 78.9

134 25.7 12.9 38.7

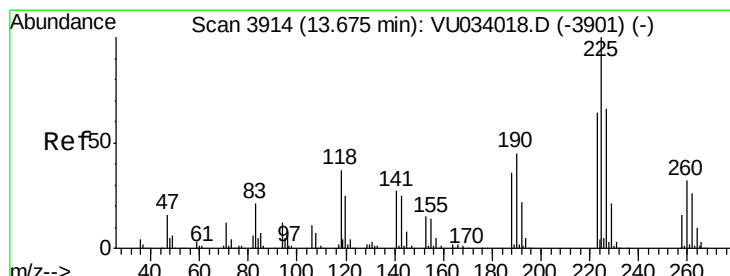
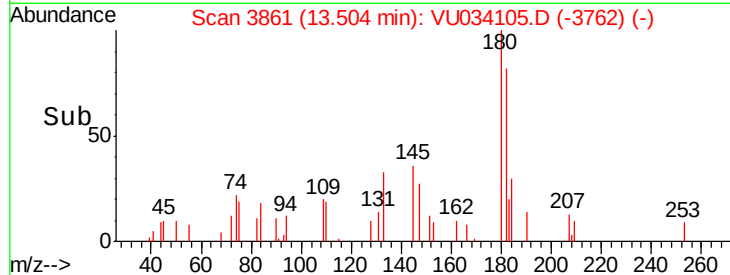
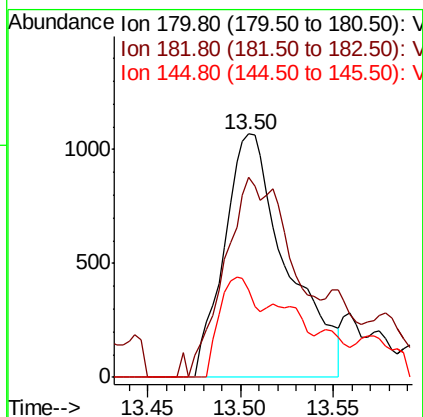
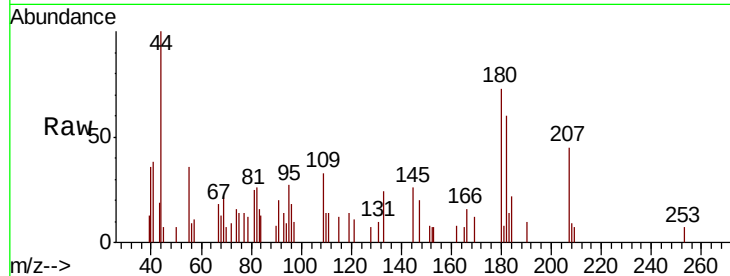




#93
 1,2,4-Trichlorobenzene
 Concen: 1.400 ug/l
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.02 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

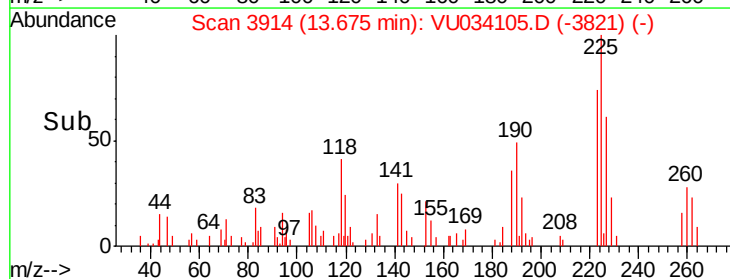
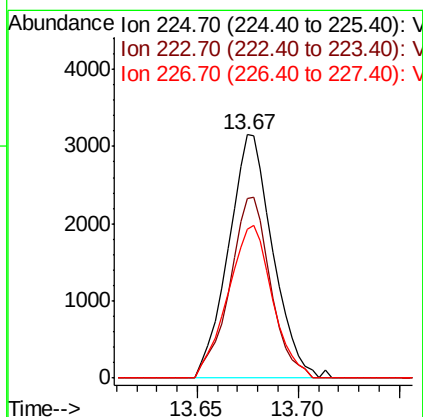
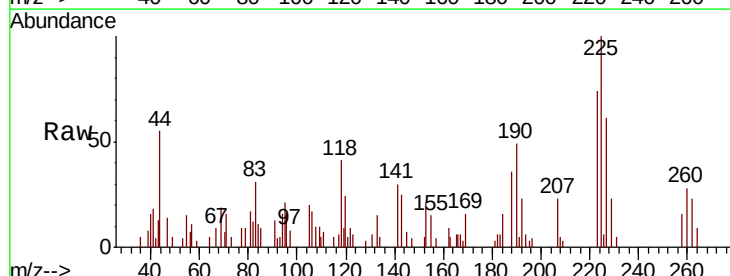
Instrument :
 MSVOA_U
 ClientSampleId :
 S504-K2-9.5-10.0-082919MEDL

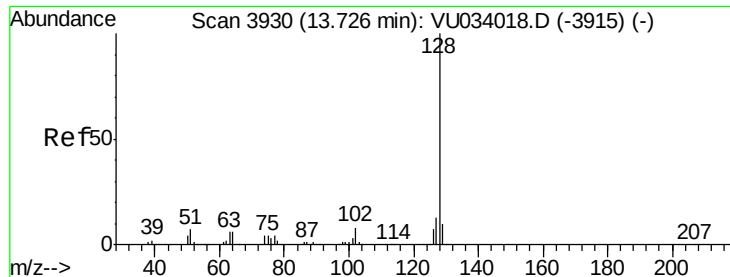
Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.4	47.4	142.2
145	23.9	14.1	42.3



#94
 Hexachlorobutadiene
 Concen: 1.026 ug/l
 RT: 13.67 min Scan# 3914
 Delta R.T. -0.00 min
 Lab File: VU034105.D
 Acq: 30 Aug 2019 17:50

Tgt Ion	Ratio	Lower	Upper
225	100		
223	68.5	31.8	95.3
227	63.0	32.6	97.8

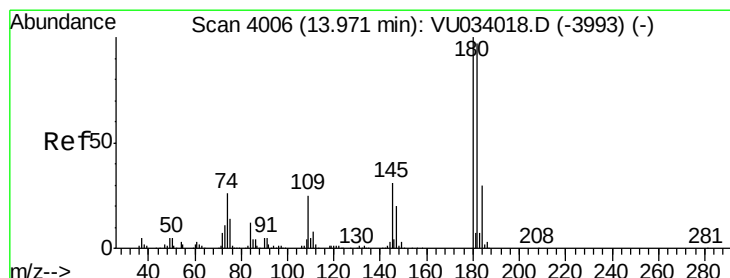
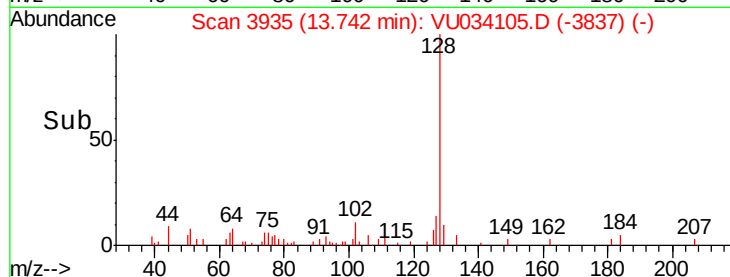
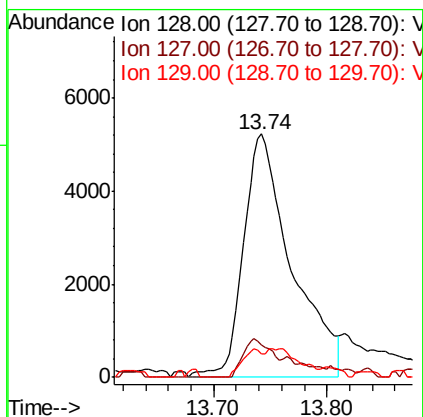
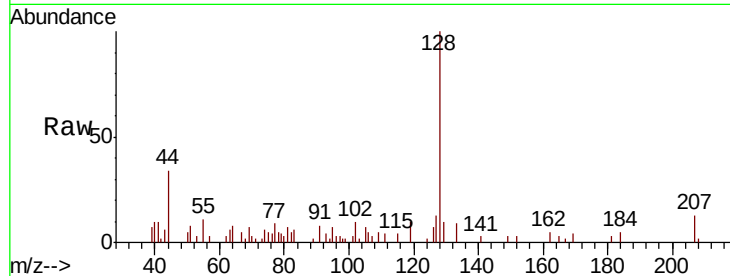




#95
Naphthalene
Concen: 2.396 ug/l
RT: 13.74 min Scan# 3935
Delta R.T. 0.02 min
Lab File: VU034105.D
Acq: 30 Aug 2019 17:50

Instrument :
MSVOA_U
ClientSampleId :
S504-K2-9.5-10.0-082919MEDL

Tgt Ion:128 Resp: 15441
Ion Ratio Lower Upper
128 100
127 9.3 10.2 15.4#
129 4.6 8.4 12.6#



#96
1,2,3-Trichlorobenzene
Concen: 0.414 ug/l
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU034105.D
Acq: 30 Aug 2019 17:50

Tgt Ion:180 Resp: 3203
Ion Ratio Lower Upper
180 100
182 102.3 48.2 144.6
145 45.0 15.5 46.5

