

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034141.D
 Acq On : 31 Aug 2019 23:27
 Operator : JC/SP
 Sample : K4526-21
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-C-(1.9)

Quant Time: Sep 01 04:52:31 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	456854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	734520	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	720613	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	352217	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.29	65	288292	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
35) Dibromofluoromethane	4.86	113	236436	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	
50) Toluene-d8	7.55	98	950196	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
62) 4-Bromofluorobenzene	10.29	95	334631	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	

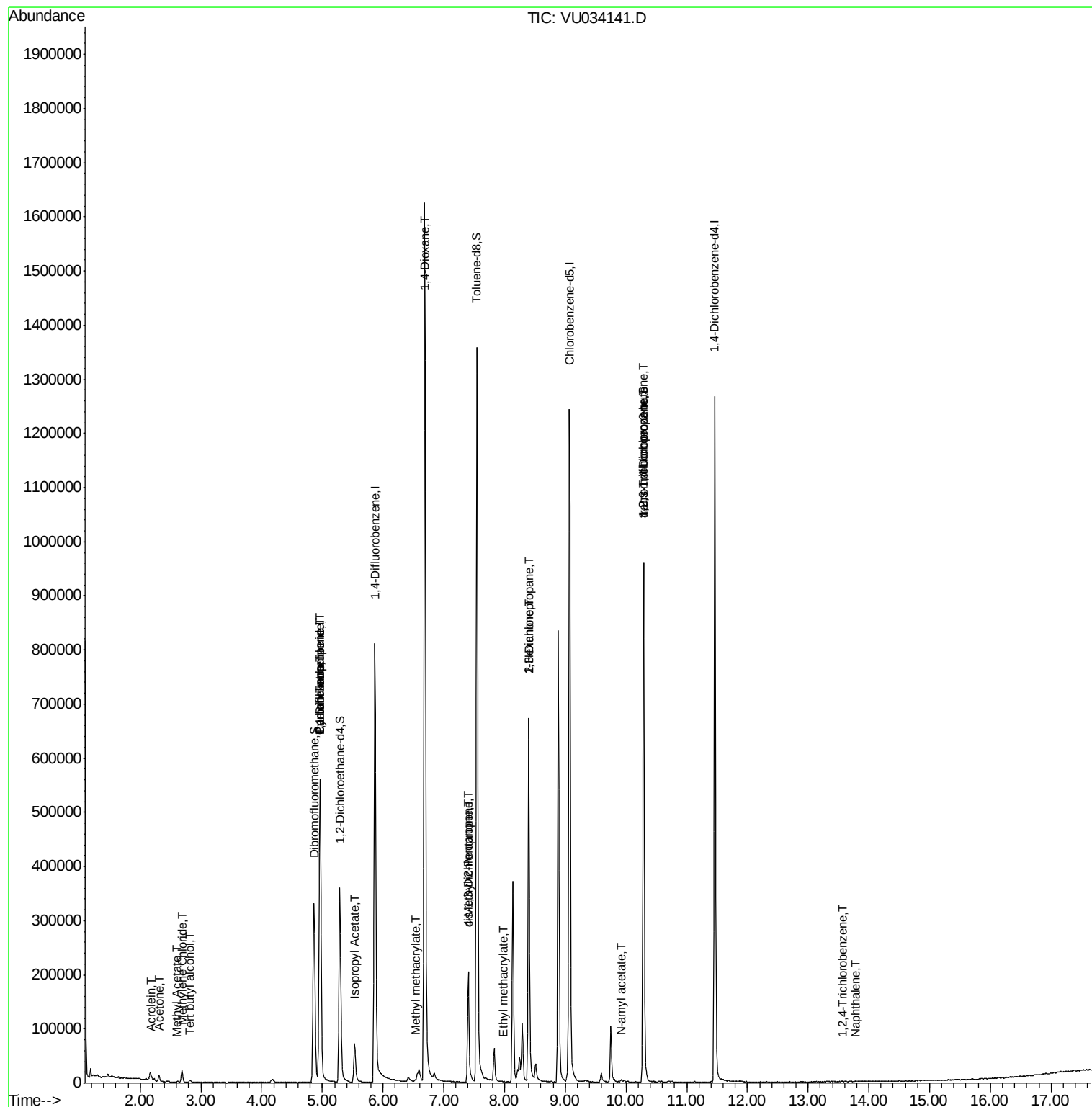
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	693	Below Cal	#	47
5) Bromomethane	1.63	94	790	Below Cal		98
11) Tert butyl alcohol	2.83	59	3033	2.247	ug/l #	73
13) Acrolein	2.19	56	294	0.518	ug/l #	35
16) Acetone	2.31	43	13177	4.412	ug/l	91
18) Methyl Acetate	2.61	43	2541	0.329	ug/l	96
20) Methylene Chloride	2.69	84	10082	1.783	ug/l	92
31) Cyclohexane	4.96	56	7811	0.894	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	32563	4.687	ug/l #	48
38) Carbon Tetrachloride	4.96	117	41349	6.166	ug/l #	16
43) Isopropyl Acetate	5.53	43	84227	7.116	ug/l	97
48) Methyl methacrylate	6.53	41	4713	0.825	ug/l #	14
49) 1,4-Dioxane	6.69	88	180	1.258	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	75227	9.203	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	38564	4.362	ug/l #	61
56) Ethyl methacrylate	7.98	69	115	0.984	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6938	0.746	ug/l #	42
59) 2-Hexanone	8.40	43	94571	15.326	ug/l #	53
74) N-amyl acetate	9.92	43	2661	0.267	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	159469	20.088	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	159469	67.643	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.55	180	189	1.138	ug/l #	38
95) Naphthalene	13.77	128	330	1.804	ug/l #	70

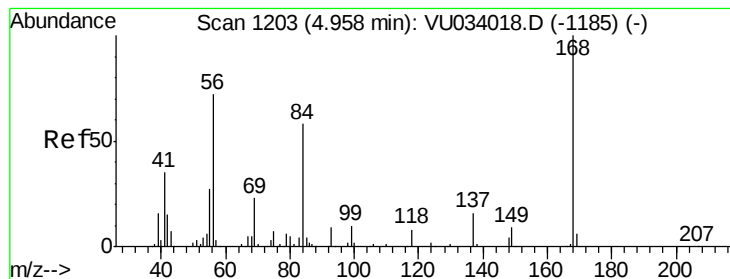
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

Instrument :

MSVOA_U

ClientSampleId :

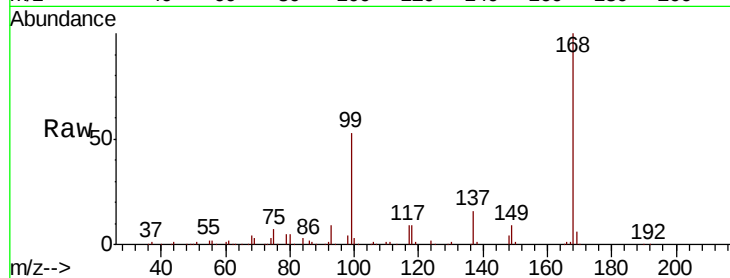
T9-12-13-C-(1.9)

Tgt Ion:168 Resp: 456854

Ion Ratio Lower Upper

168 100

99 53.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VU034141.D (-1185) (-)

Ion 98.90 (98.60 to 99.60): VU034141.D (-1185) (-)

4.96

200000

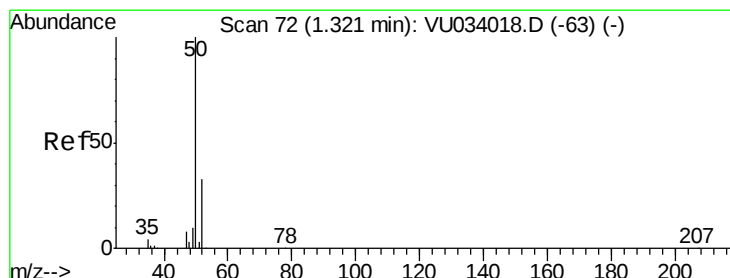
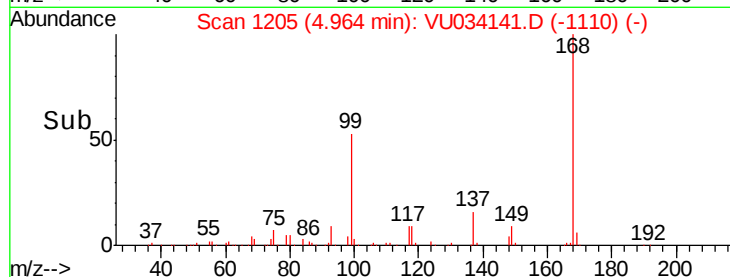
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034141.D

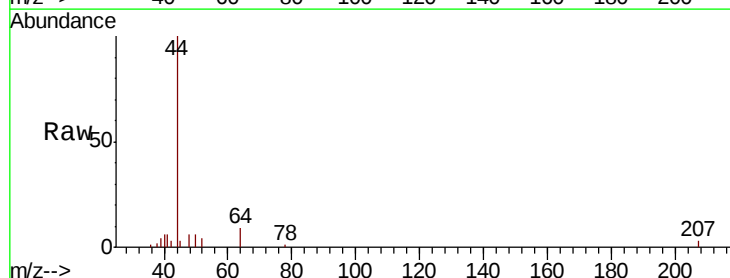
Acq: 31 Aug 2019 23:27

Tgt Ion: 50 Resp: 693

Ion Ratio Lower Upper

50 100

52 62.4 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VU034141.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034141.D (-63) (-)

1.33

500

400

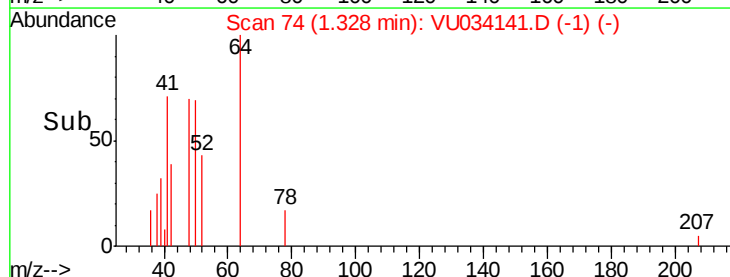
300

200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.03 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

Instrument :

MSVOA_U

ClientSampleId :

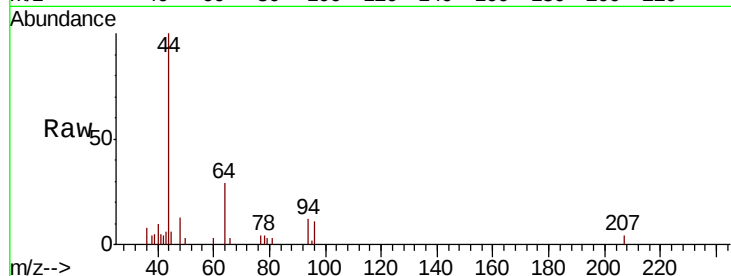
T9-12-13-C-(1.9)

Tgt Ion: 94 Resp: 790

Ion Ratio Lower Upper

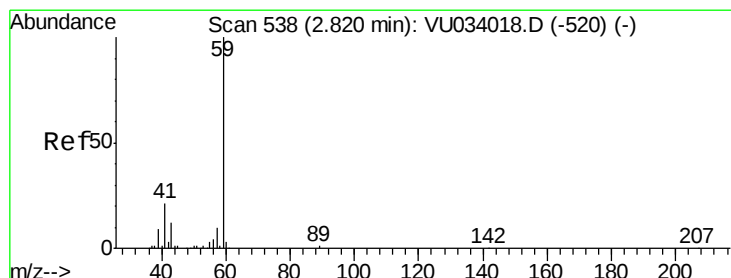
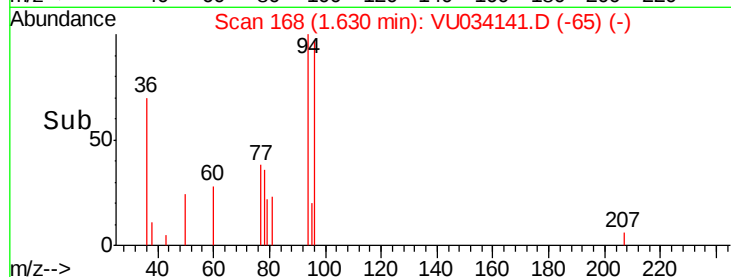
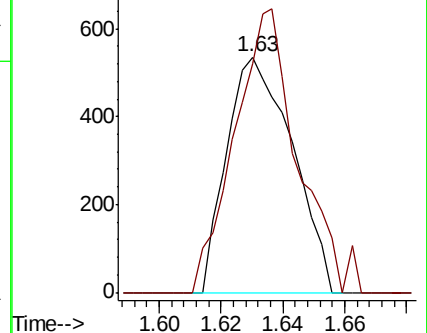
94 100

96 97.2 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#11

Tert butyl alcohol

Concen: 2.247 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034141.D

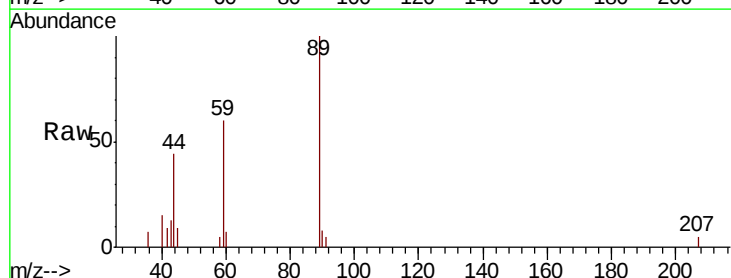
Acq: 31 Aug 2019 23:27

Tgt Ion: 59 Resp: 3033

Ion Ratio Lower Upper

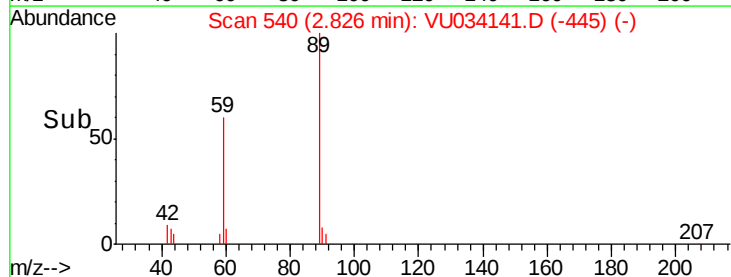
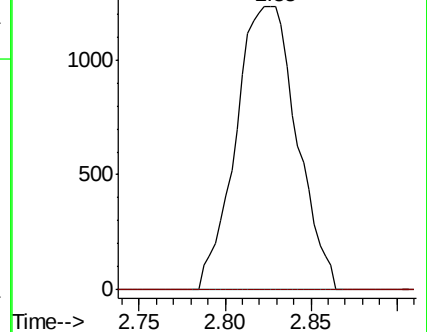
59 100

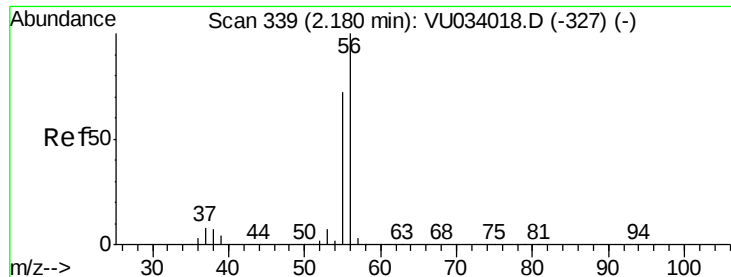
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.518 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

Instrument :

MSVOA_U

ClientSampleId :

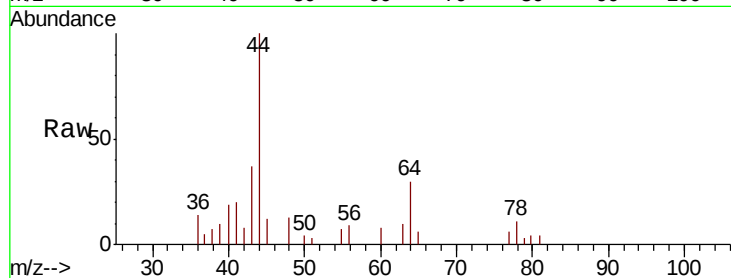
T9-12-13-C-(1.9)

Tgt Ion: 56 Resp: 294

Ion Ratio Lower Upper

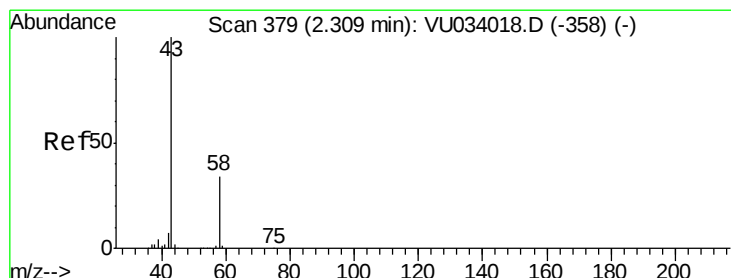
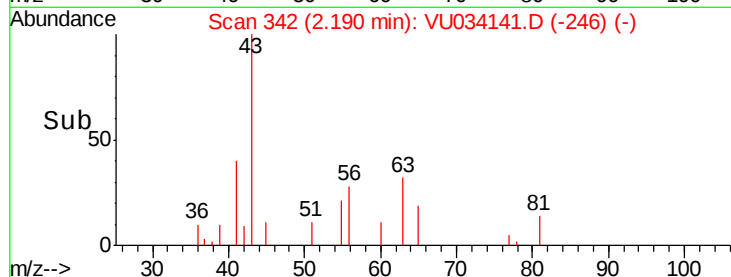
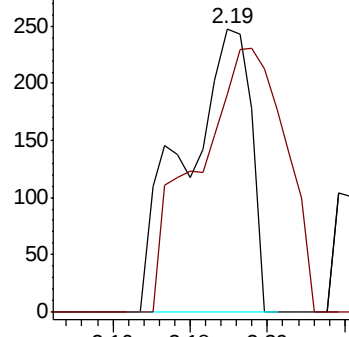
56 100

55 125.2 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 4.412 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034141.D

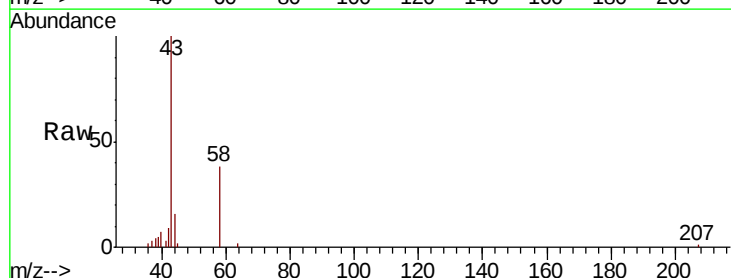
Acq: 31 Aug 2019 23:27

Tgt Ion: 43 Resp: 13177

Ion Ratio Lower Upper

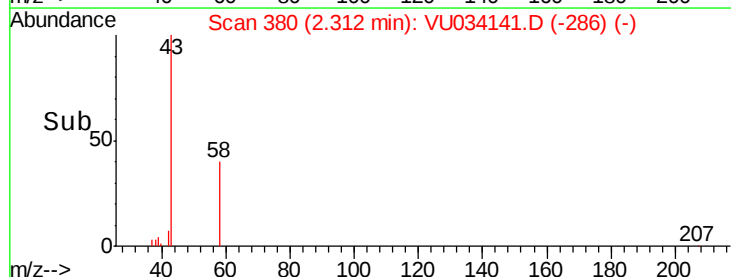
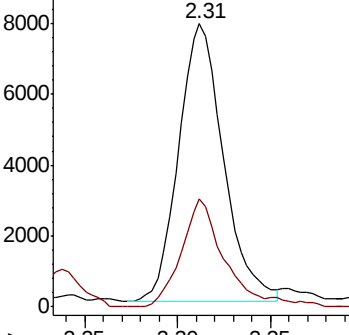
43 100

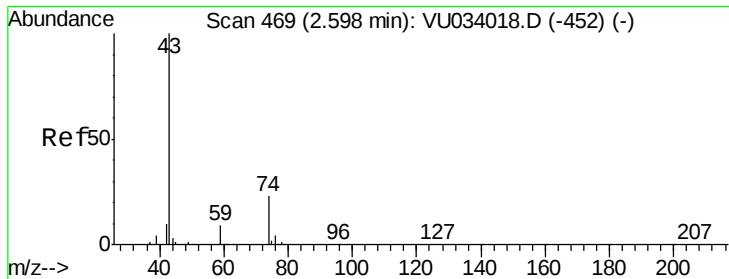
58 38.8 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

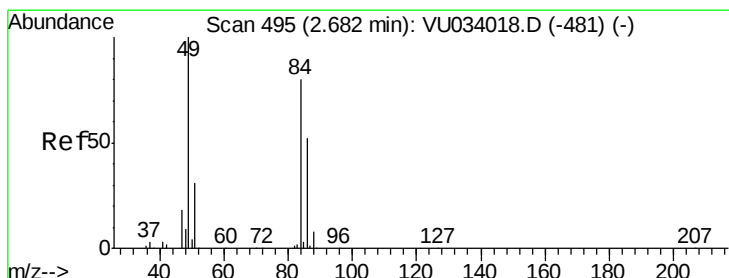
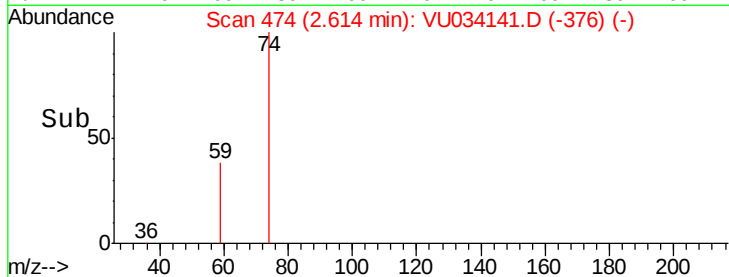
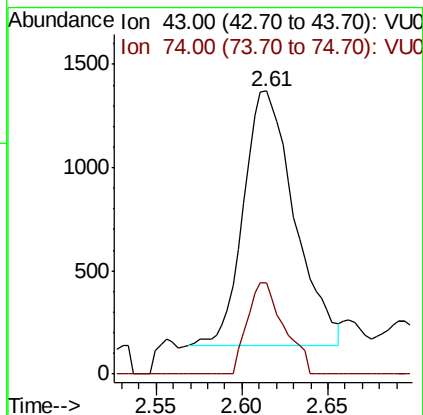
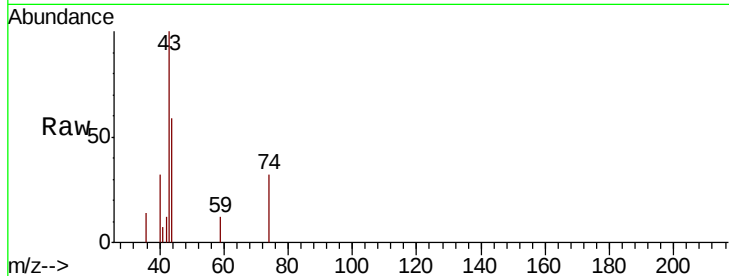




#18
Methyl Acetate
Concen: 0.329 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU034141.D
Acq: 31 Aug 2019 23:27

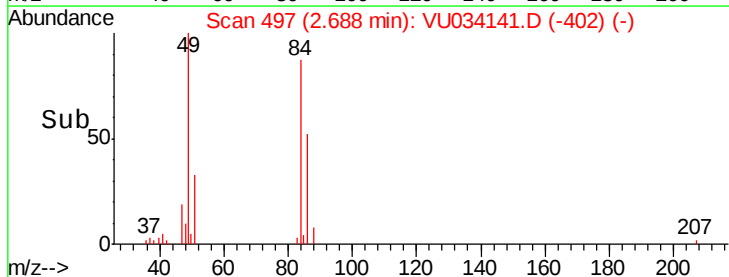
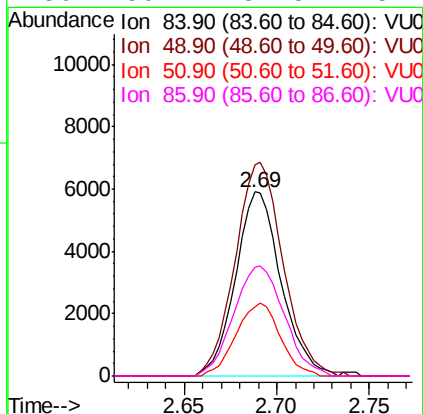
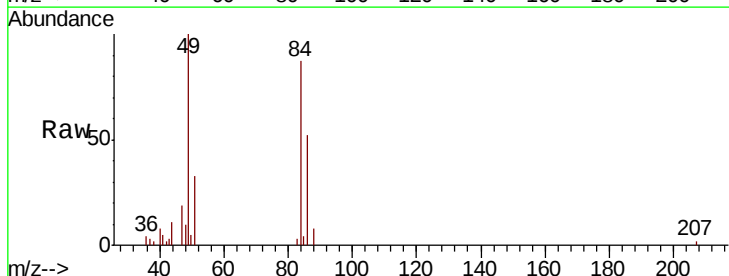
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-C-(1.9)

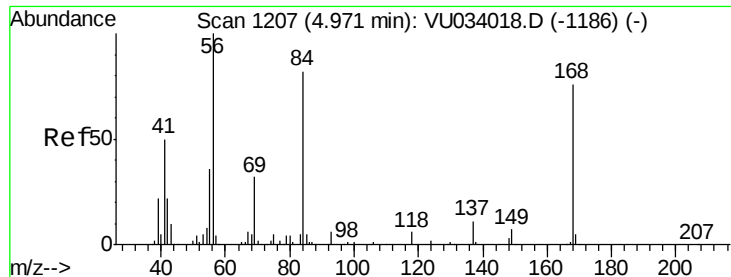
Tgt Ion: 43 Resp: 2541
Ion Ratio Lower Upper
43 100
74 25.8 19.2 28.8



#20
Methylene Chloride
Concen: 1.783 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034141.D
Acq: 31 Aug 2019 23:27

Tgt Ion: 84 Resp: 10082
Ion Ratio Lower Upper
84 100
49 114.7 100.2 150.4
51 37.8 30.8 46.2
86 59.4 52.5 78.7





#31

Cyclohexane

Concen: 0.894 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-C-(1.9)

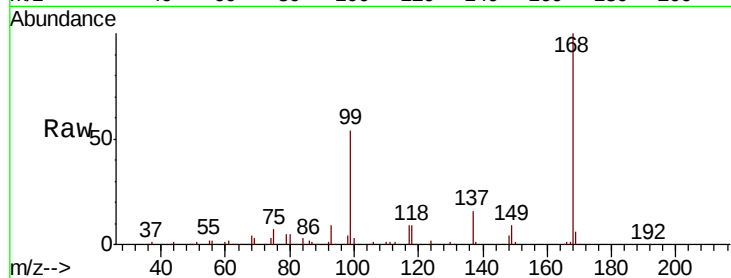
Tgt Ion: 56 Resp: 7811

Ion Ratio Lower Upper

56 100

69 210.5 25.4 38.0#

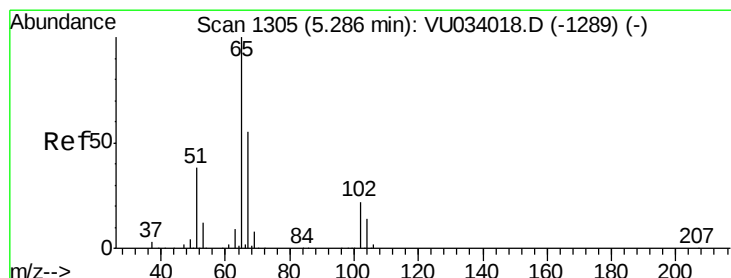
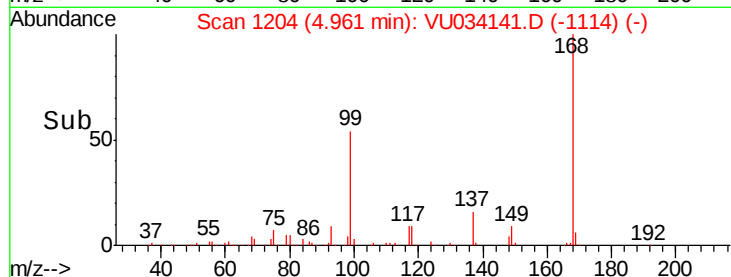
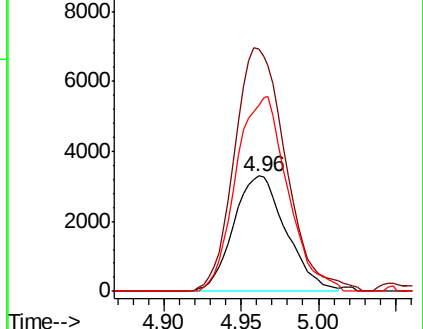
84 162.3 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034141.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034141.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034141.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.248 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034141.D

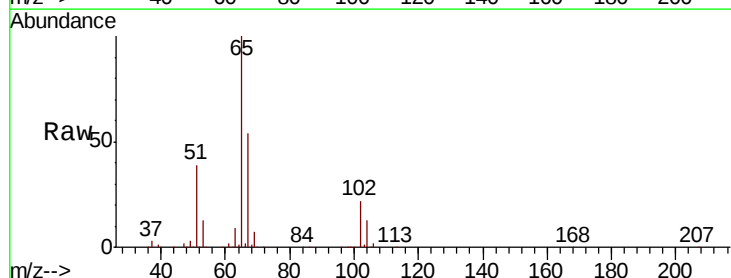
Acq: 31 Aug 2019 23:27

Tgt Ion: 65 Resp: 288292

Ion Ratio Lower Upper

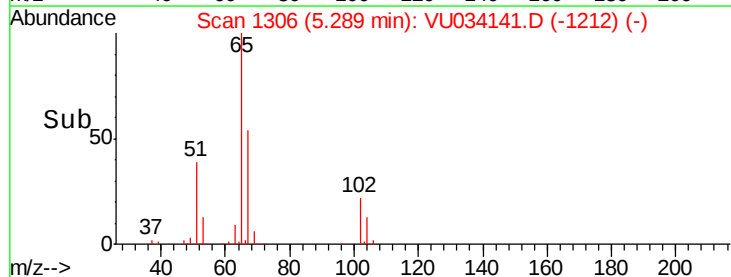
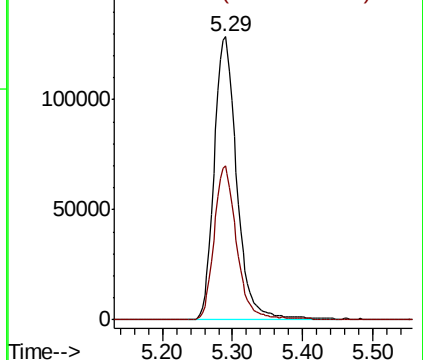
65 100

67 53.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034141.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034141.D (-1212) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

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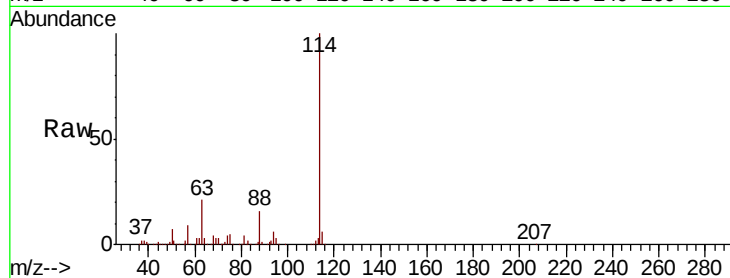
Tgt Ion:114 Resp: 734520

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.0

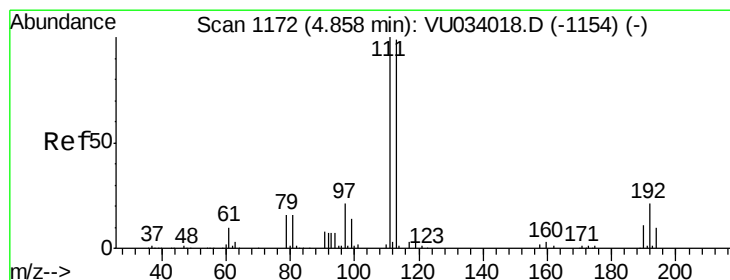
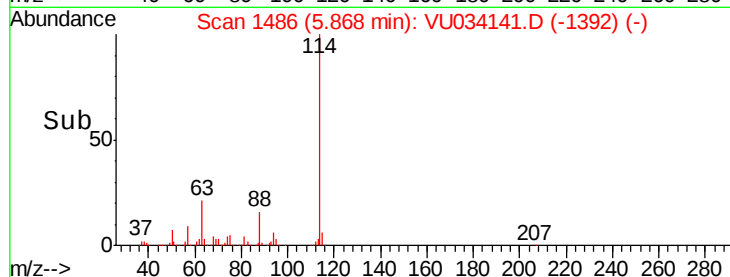
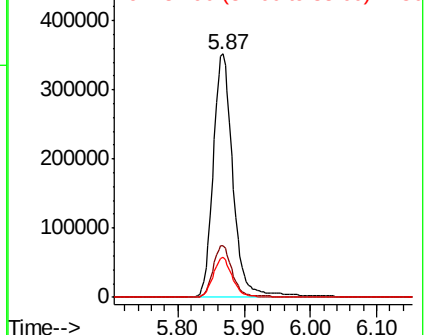
88 16.3 0.0 32.0



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: 46.409 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

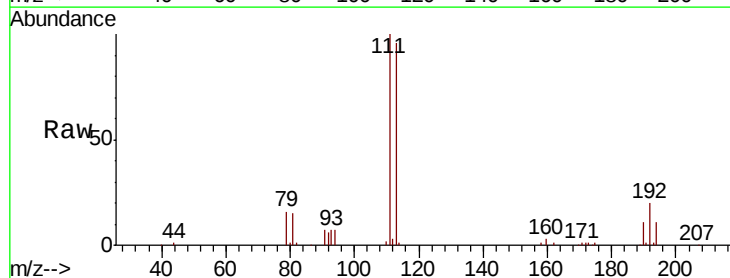
Tgt Ion:113 Resp: 236436

Ion Ratio Lower Upper

113 100

111 104.1 81.7 122.5

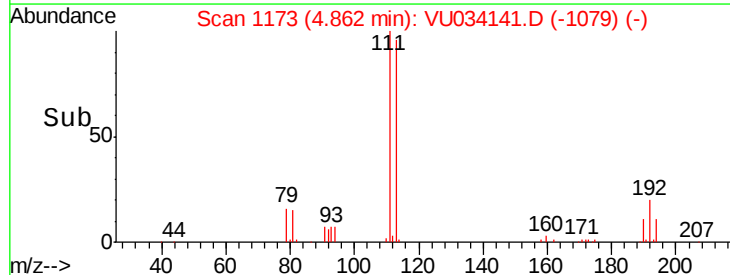
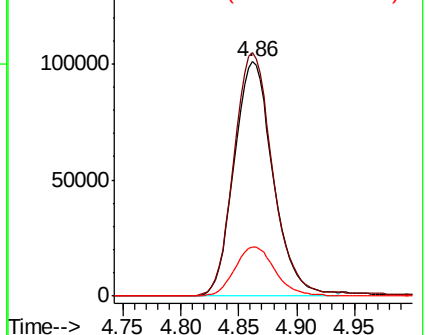
192 21.6 17.1 25.7

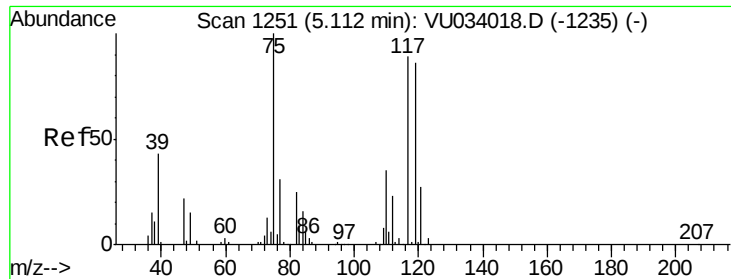


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

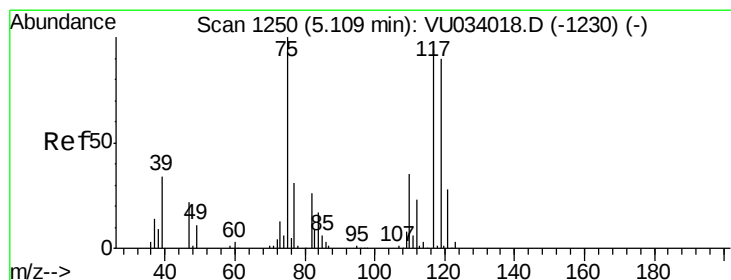
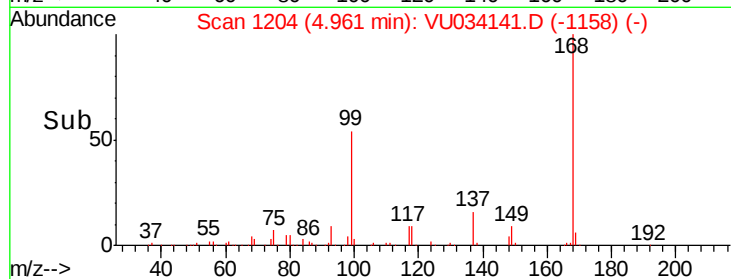
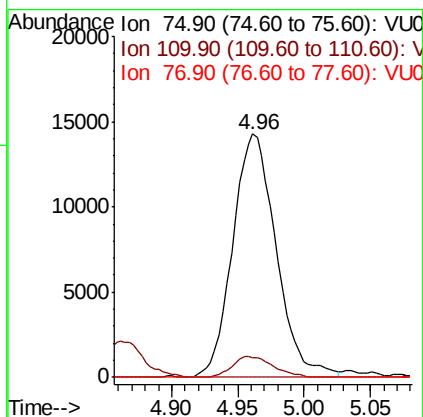
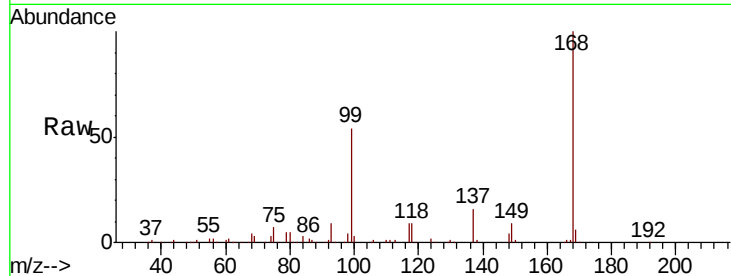




#36
 1,1-Dichloropropene
 Concen: 4.687 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034141.D
 Acq: 31 Aug 2019 23:27

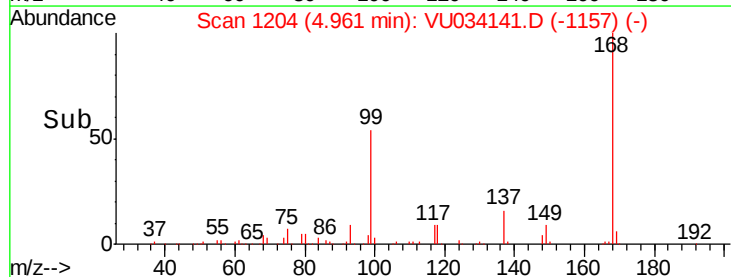
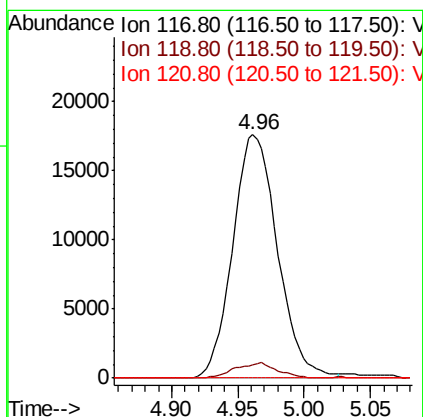
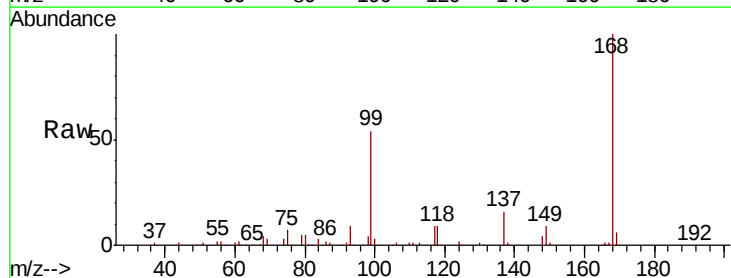
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-C-(1.9)

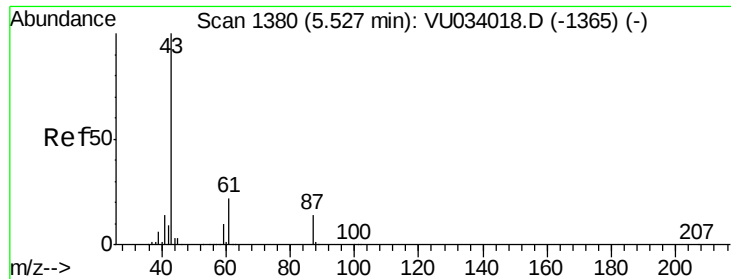
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.166 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034141.D
 Acq: 31 Aug 2019 23:27

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





#43

Isopropyl Acetate

Concen: 7.116 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-C-(1.9)

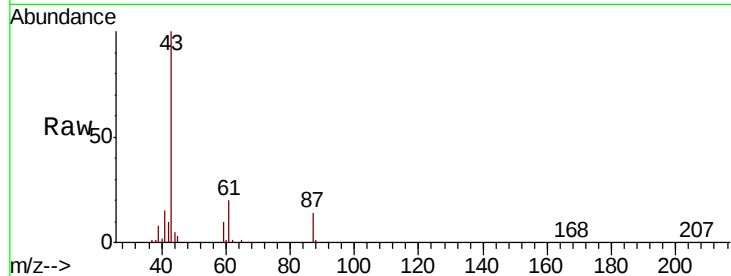
Tgt Ion: 43 Resp: 84227

Ion Ratio Lower Upper

43 100

61 19.2 17.2 25.8

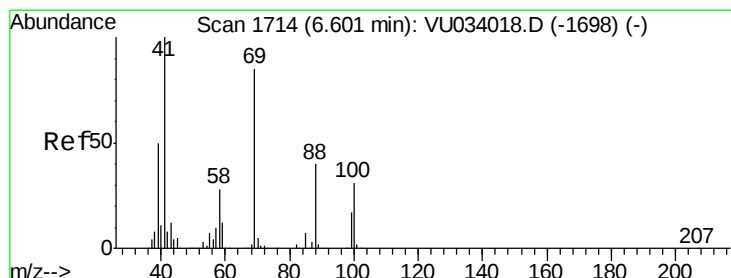
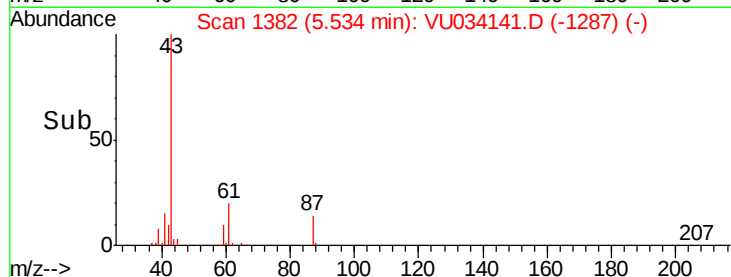
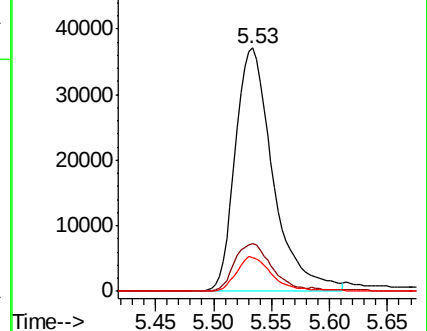
87 13.6 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034141.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034141.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034141.D (-1287) (-)



#48

Methyl methacrylate

Concen: 0.825 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.07 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

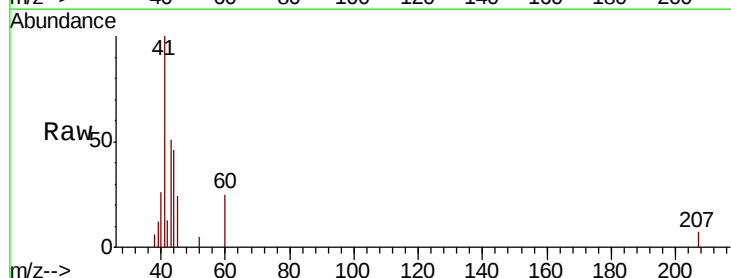
Tgt Ion: 41 Resp: 4713

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

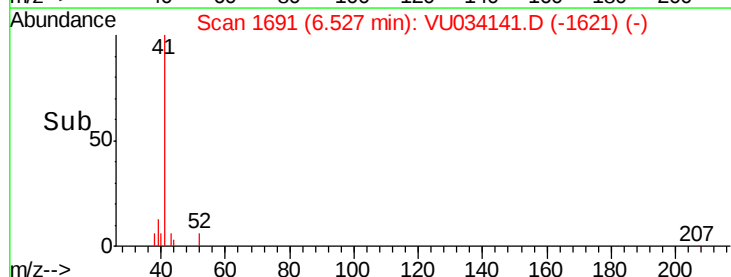
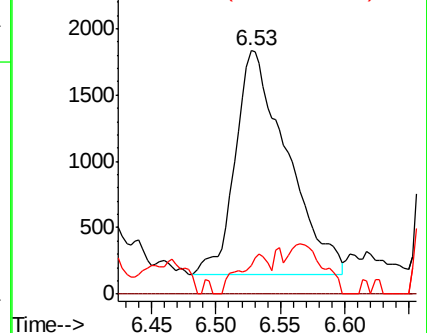
39 0.0 40.3 60.5#

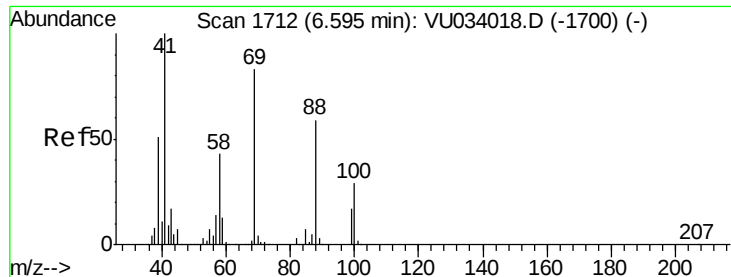


Abundance Ion 41.00 (40.70 to 41.70): VU034141.D (-1621) (-)

Ion 69.00 (68.70 to 69.70): VU034141.D (-1621) (-)

Ion 39.00 (38.70 to 39.70): VU034141.D (-1621) (-)





#49

1,4-Dioxane

Concen: 1.258 ug/l

RT: 6.69 min Scan# 1741

Delta R.T. 0.09 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-C-(1.9)

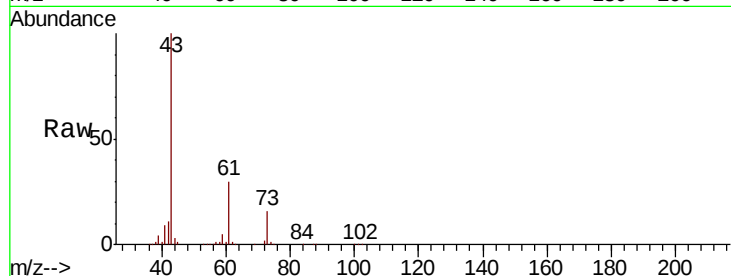
Tgt Ion: 88 Resp: 180

Ion Ratio Lower Upper

88 100

43 889756.7 24.8 37.2#

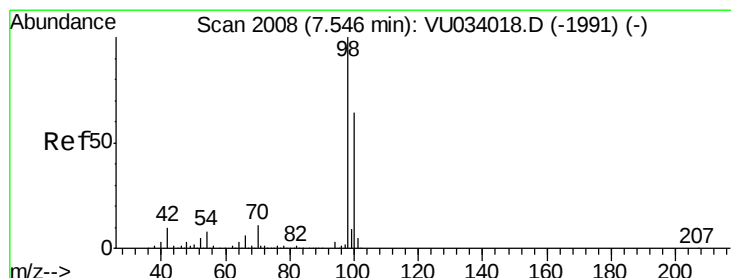
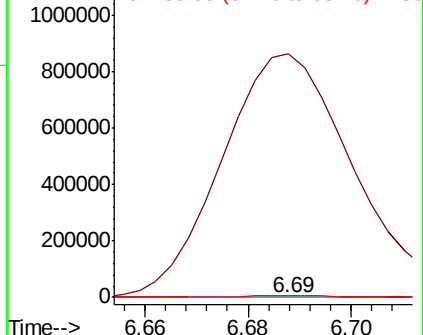
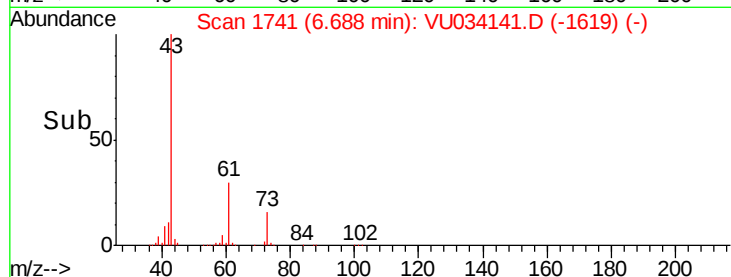
58 4866.1 59.3 88.9#



Abundance Ion 88.00 (87.70 to 88.70): VU034141.D (-1619) (-)

Ion 43.00 (42.70 to 43.70): VU034141.D (-1619) (-)

Ion 58.00 (57.70 to 58.70): VU034141.D (-1619) (-)



#50

Toluene-d8

Concen: 49.811 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034141.D

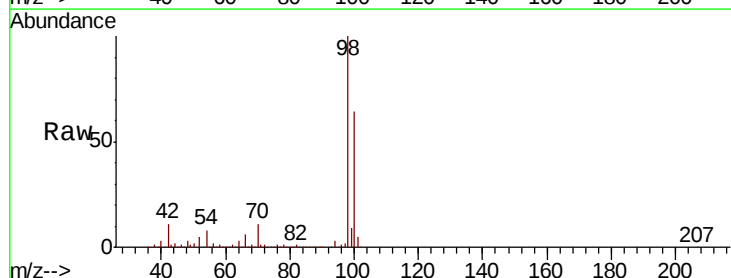
Acq: 31 Aug 2019 23:27

Tgt Ion: 98 Resp: 950196

Ion Ratio Lower Upper

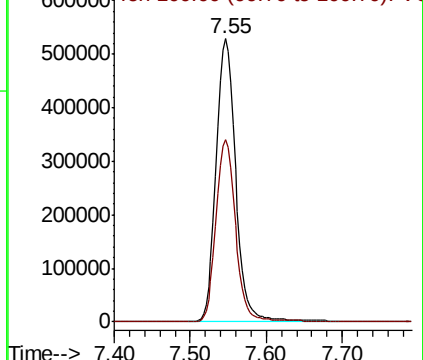
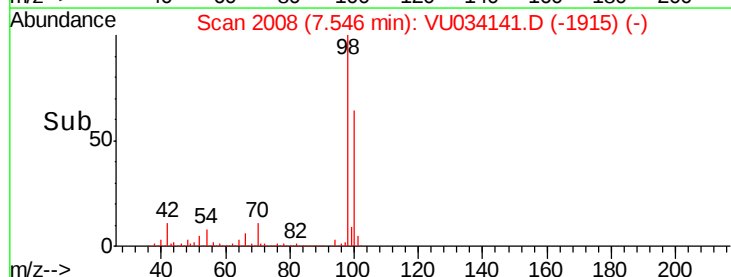
98 100

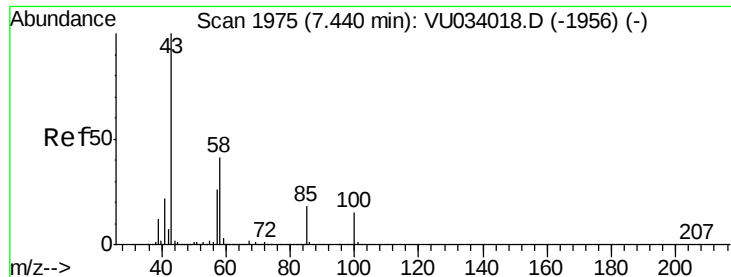
100 64.6 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VU034141.D (-1915) (-)

Ion 100.00 (99.70 to 100.70): VU034141.D (-1915) (-)





#51

4-Methyl-2-Pentanone

Concen: 9.203 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

Instrument :

MSVOA_U

ClientSampleId :

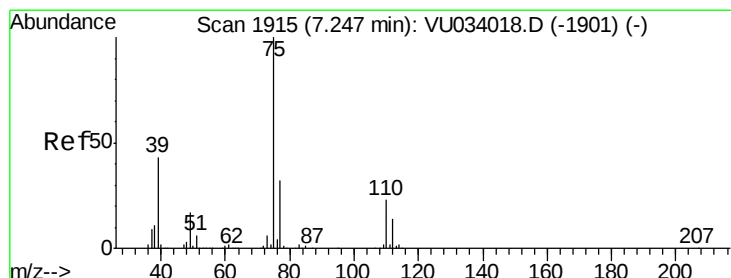
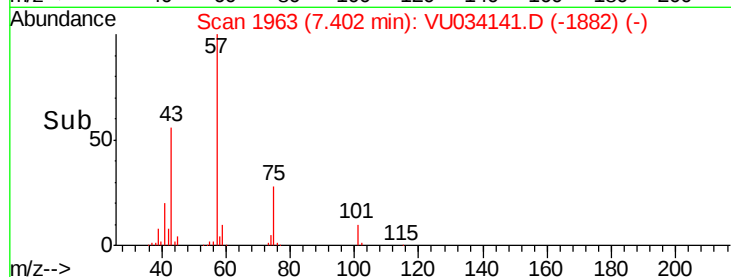
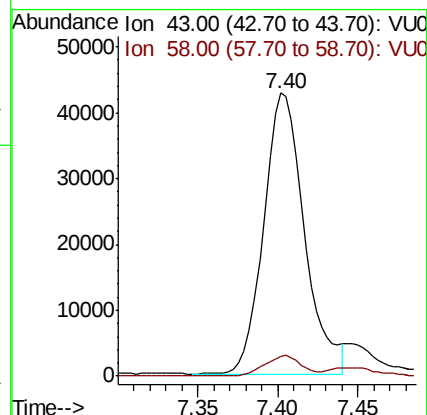
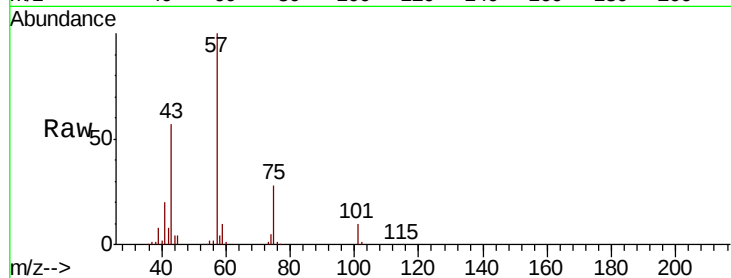
T9-12-13-C-(1.9)

Tgt Ion: 43 Resp: 75227

Ion Ratio Lower Upper

43 100

58 6.7 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 4.362 ug/l

RT: 7.40 min Scan# 1964

Delta R.T. 0.16 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

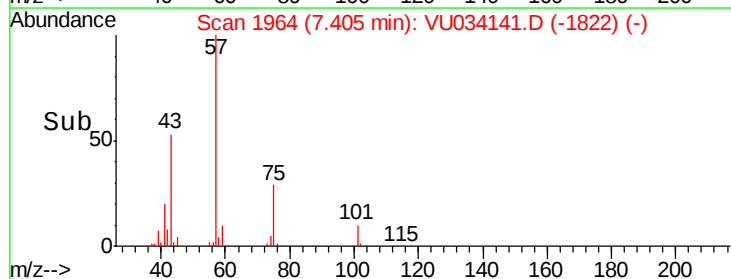
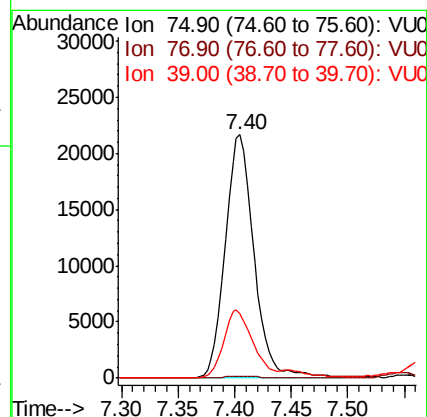
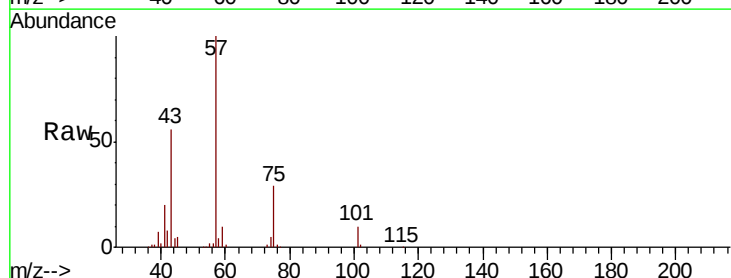
Tgt Ion: 75 Resp: 38564

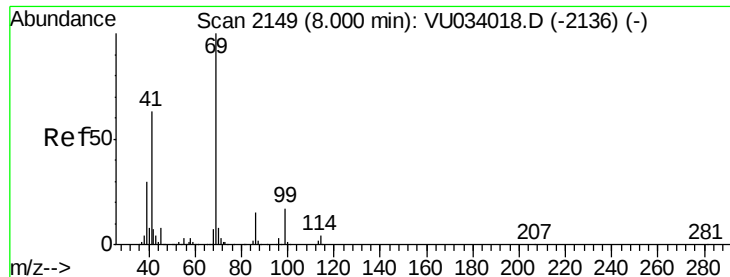
Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

39 26.2 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.984 ug/l

RT: 7.98 min Scan# 2142

Delta R.T. -0.02 min

Lab File: VU034141.D

Acq: 31 Aug 2019 23:27

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-C-(1.9)

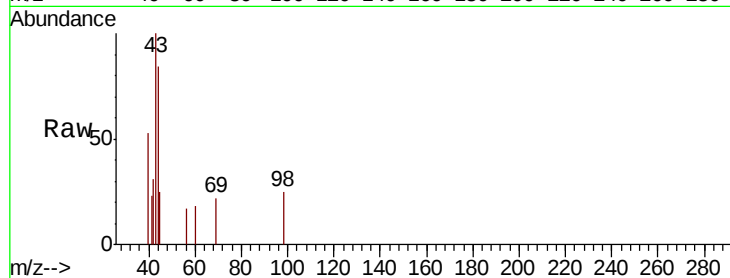
Tgt Ion: 69 Resp: 115

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

39 0.0 24.2 36.2#

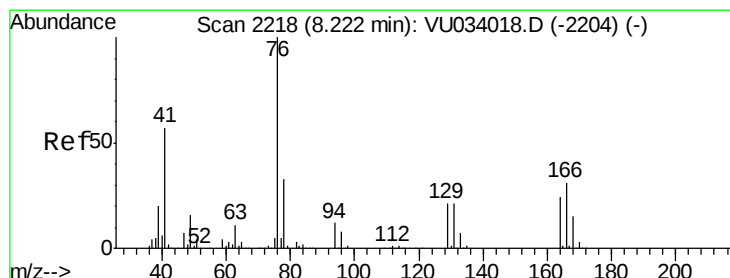
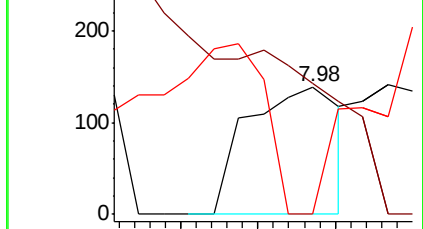
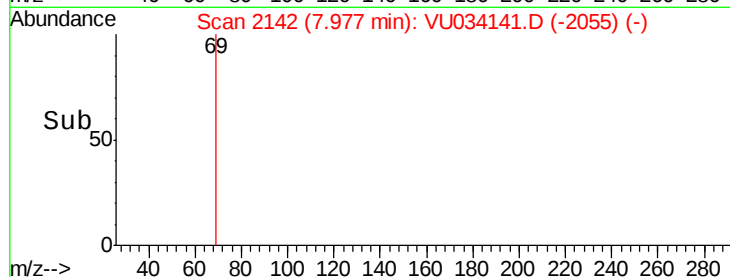


Abundance Ion 69.00 (68.70 to 69.70): VU034141.D (-2142) (-)

Ion 41.00 (40.70 to 41.70): VU034141.D (-2142) (-)

Ion 39.00 (38.70 to 39.70): VU034141.D (-2142) (-)

7.98



#57

1,3-Dichloropropane

Concen: 0.746 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034141.D

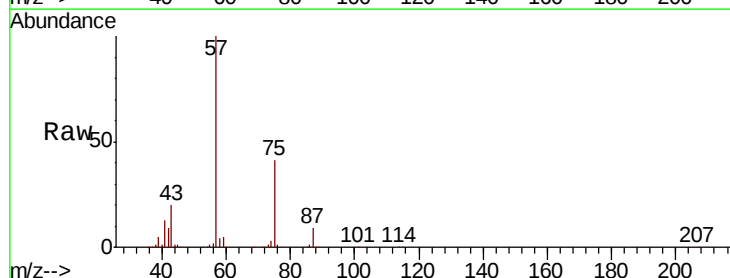
Acq: 31 Aug 2019 23:27

Tgt Ion: 76 Resp: 6938

Ion Ratio Lower Upper

76 100

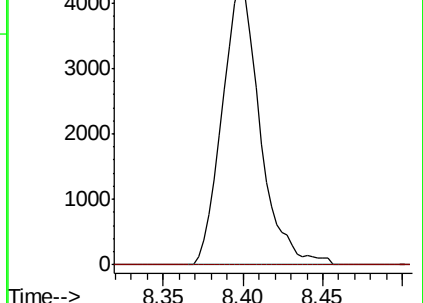
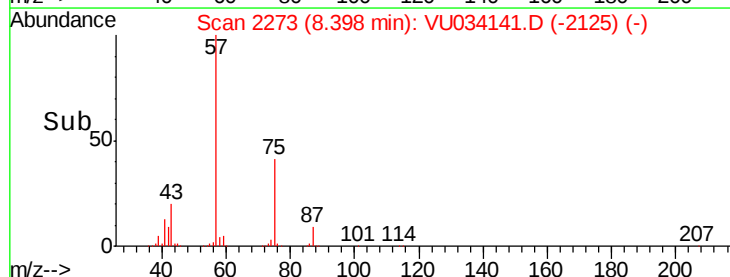
78 0.0 26.2 39.4#

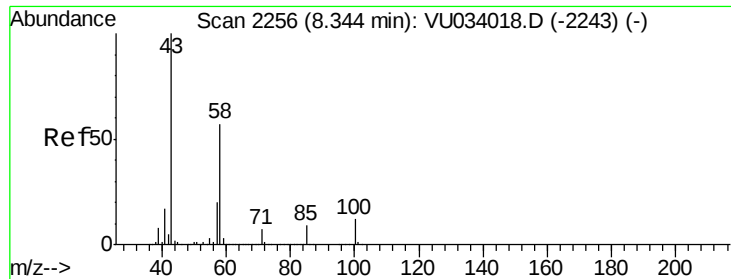


Abundance Ion 75.90 (75.60 to 76.60): VU034141.D (-2273) (-)

Ion 77.90 (77.60 to 78.60): VU034141.D (-2273) (-)

8.40

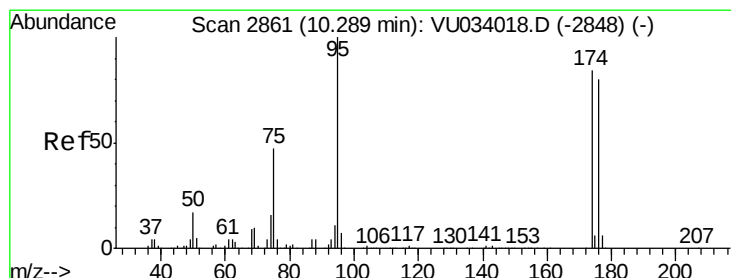
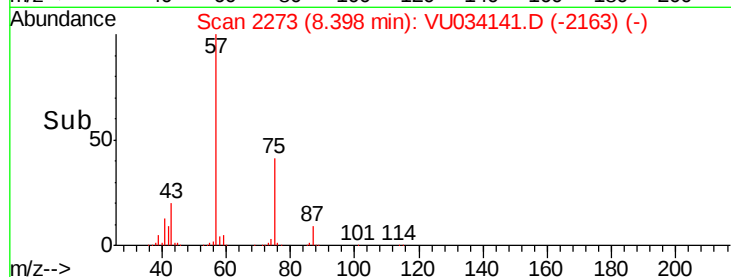
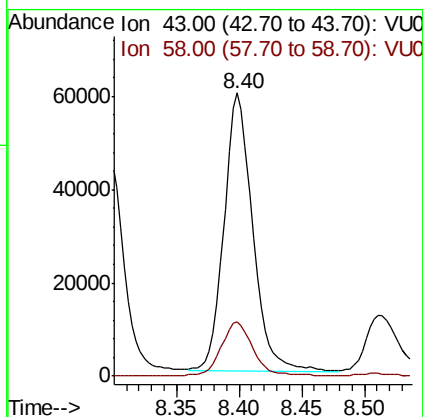
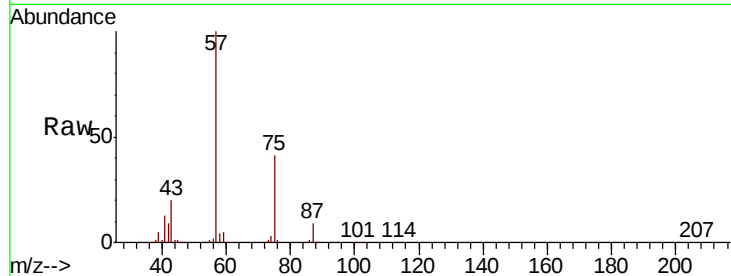




#59
2-Hexanone
Concen: 15.326 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034141.D
Acq: 31 Aug 2019 23:27

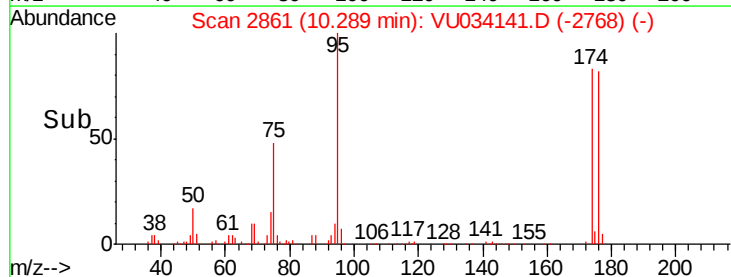
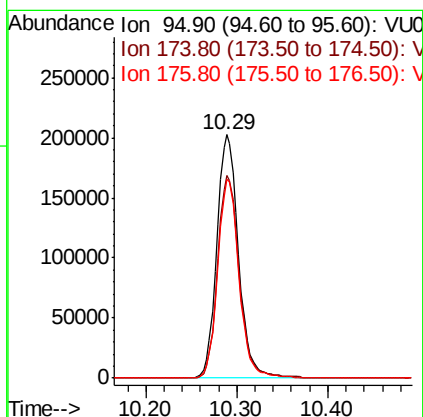
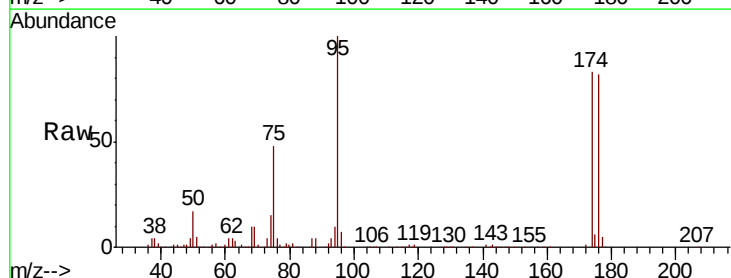
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-C-(1.9)

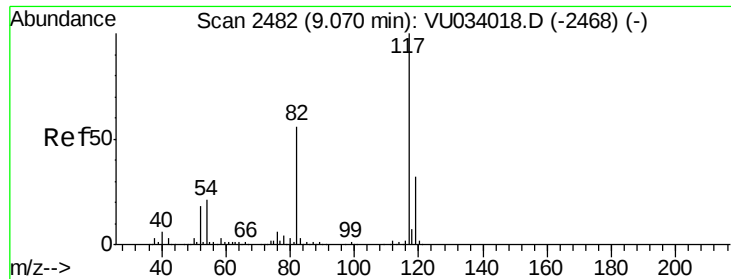
Tgt Ion: 43 Resp: 94571
Ion Ratio Lower Upper
43 100
58 22.3 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.096 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034141.D
Acq: 31 Aug 2019 23:27

Tgt Ion: 95 Resp: 334631
Ion Ratio Lower Upper
95 100
174 84.0 0.0 168.8
176 80.6 0.0 161.8

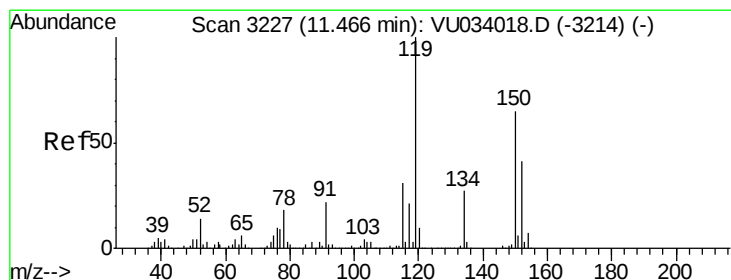
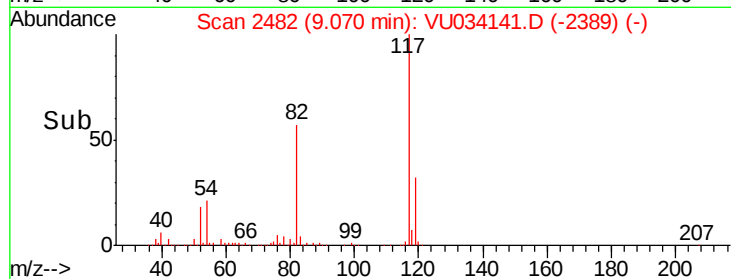
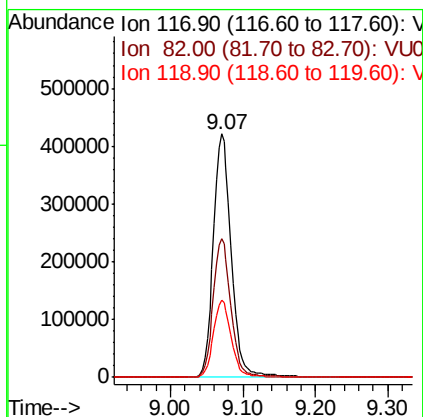
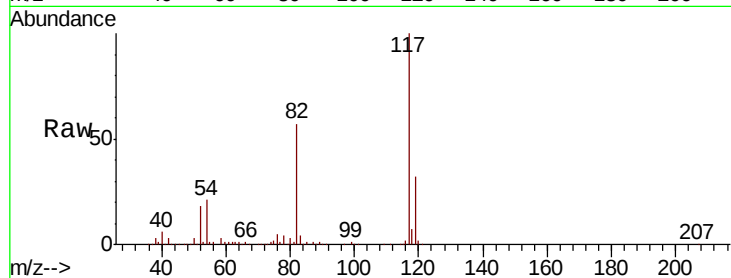




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 9.07 min Scan# 2482
 Delta R.T. -0.00 min
 Lab File: VU034141.D
 Acq: 31 Aug 2019 23:27

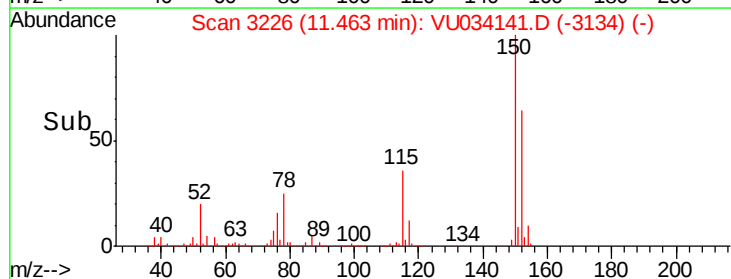
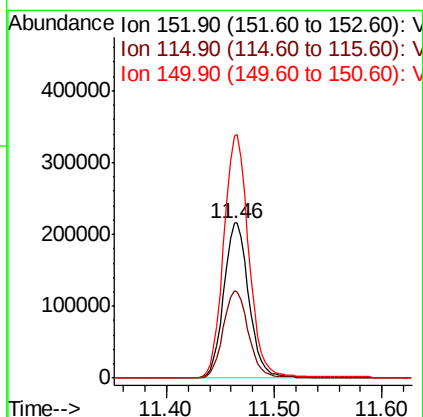
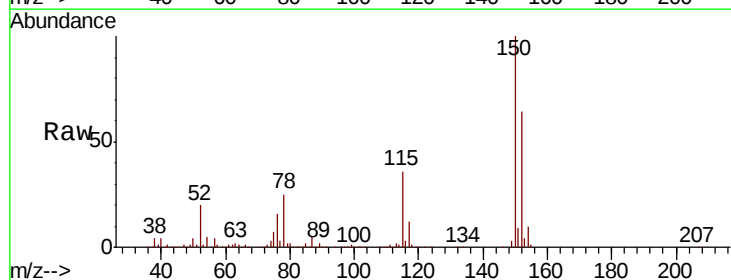
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-C-(1.9)

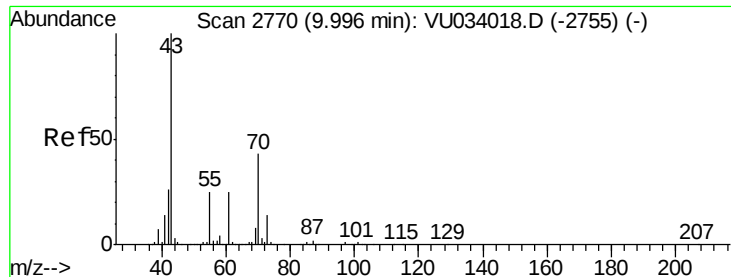
Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.2	45.1	67.7
119	31.7	25.4	38.0



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.46 min Scan# 3226
 Delta R.T. -0.00 min
 Lab File: VU034141.D
 Acq: 31 Aug 2019 23:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	41.1	123.3
150	156.1	0.0	348.8

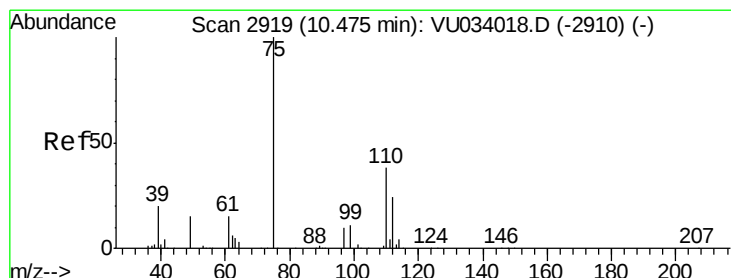
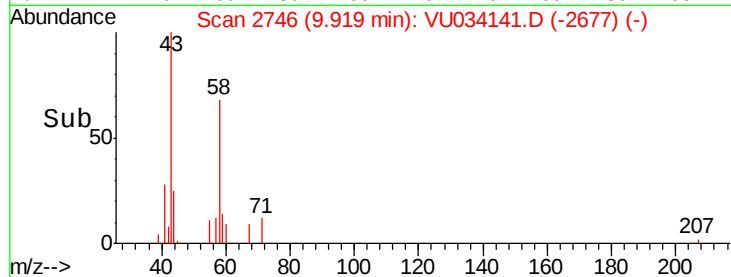
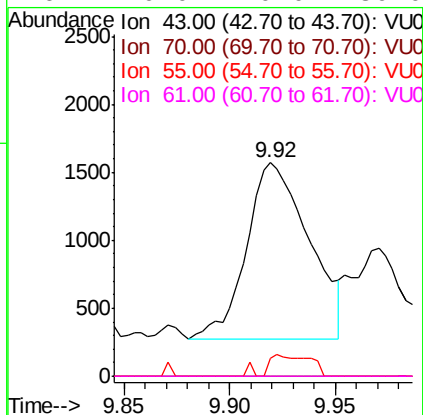
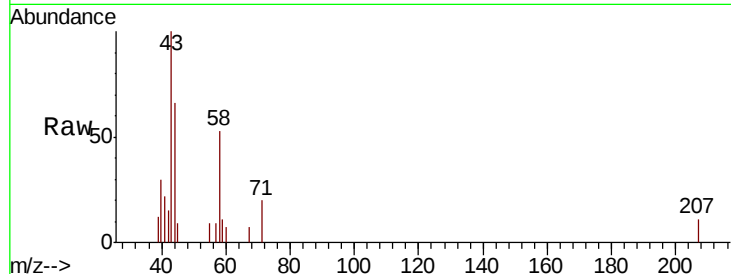




#74
N-ethyl acetate
Concen: 0.267 ug/l
RT: 9.92 min Scan# 2746
Delta R.T. -0.08 min
Lab File: VU034141.D
Acq: 31 Aug 2019 23:27

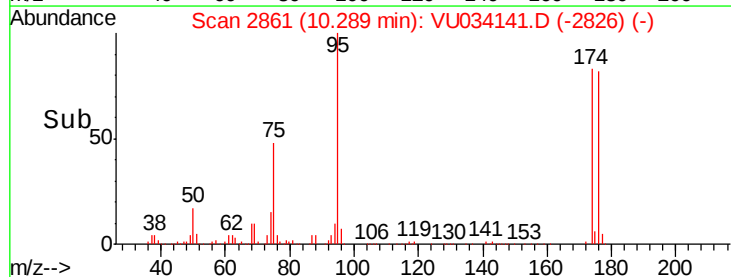
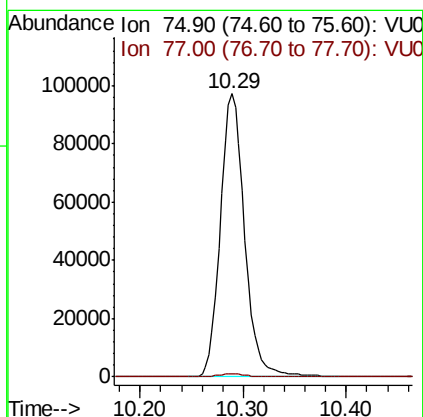
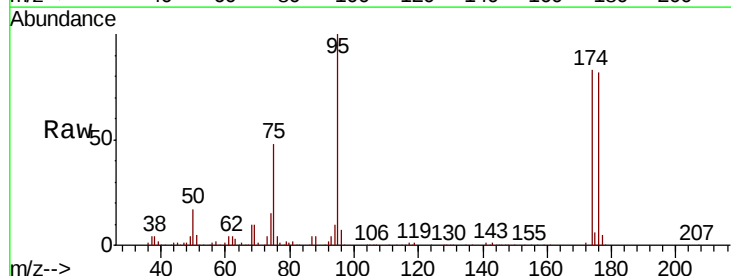
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-C-(1.9)

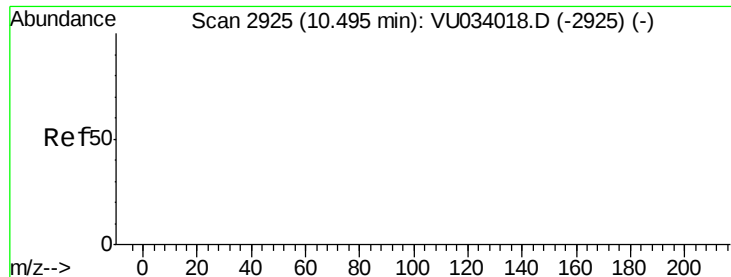
Tgt Ion:	43	Resp:	2661
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.2	52.8#
55	7.7	20.5	30.7#
61	0.0	20.0	30.0#



#76
1,2,3-Trichloropropane
Concen: 20.088 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.19 min
Lab File: VU034141.D
Acq: 31 Aug 2019 23:27

Tgt Ion:	75	Resp:	159469
Ion	Ratio	Lower	Upper
75	100		
77	1.3	20.1	60.2#

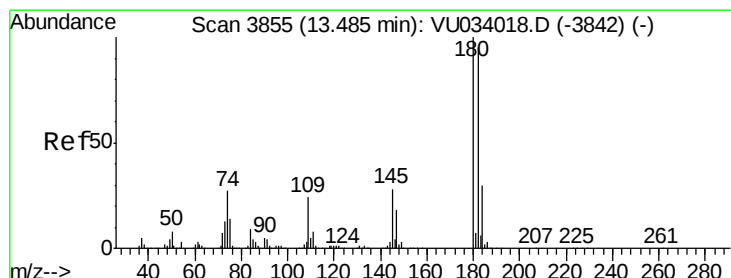
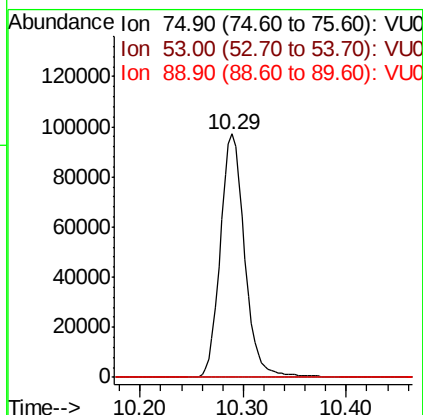
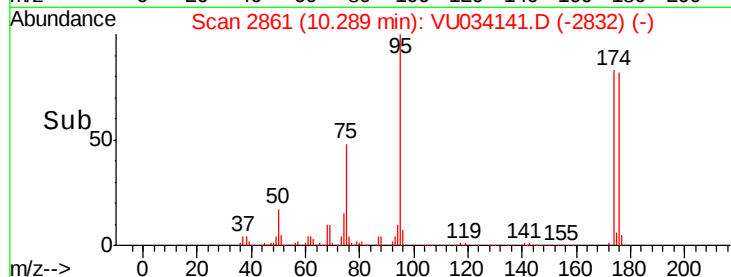
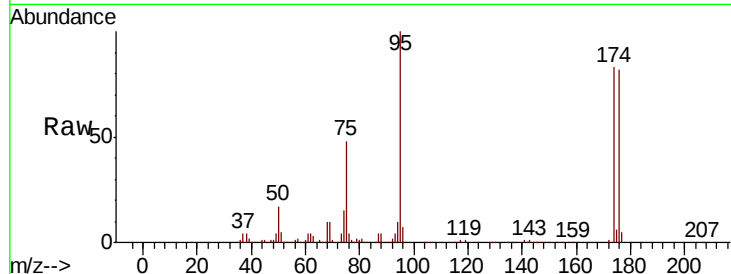




#81
trans-1,4-Dichloro-2-butene
Concen: 67.643 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034141.D
Acq: 31 Aug 2019 23:27

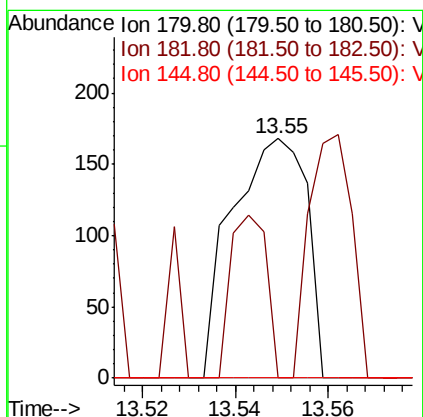
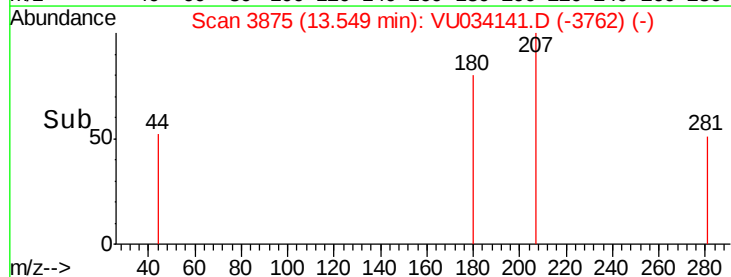
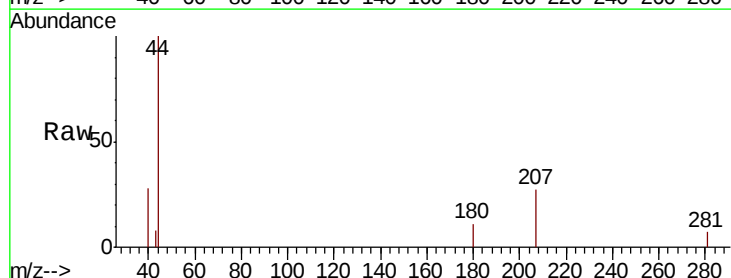
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-C-(1.9)

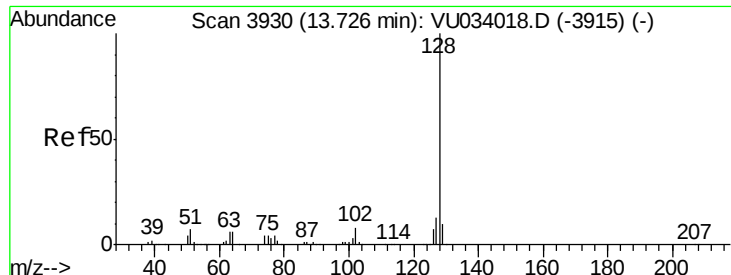
Tgt Ion: 75 Resp: 159469
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#93
1,2,4-Trichlorobenzene
Concen: 1.138 ug/l
RT: 13.55 min Scan# 3875
Delta R.T. 0.06 min
Lab File: VU034141.D
Acq: 31 Aug 2019 23:27

Tgt Ion: 180 Resp: 189
Ion Ratio Lower Upper
180 100
182 32.8 47.4 142.2#
145 0.0 14.1 42.3#

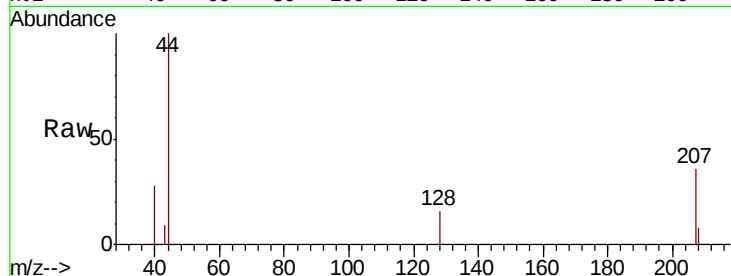




#95
 Naphthalene
 Concen: 1.804 ug/l
 RT: 13.77 min Scan# 3943
 Delta R.T. 0.04 min
 Lab File: VU034141.D
 Acq: 31 Aug 2019 23:27

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-C-(1.9)

Tgt 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

