

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU091019\
 Data File : VU034443.D
 Acq On : 10 Sep 2019 12:06
 Operator : JC/SP
 Sample : K4698-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GW507-K2-35.0-40.0-090419-FD

Quant Time: Sep 11 05:53:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 05:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	222122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	339506	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	335229	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	192599	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.29	65	204530	60.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.72%	
35) Dibromofluoromethane	4.86	113	180142	57.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.04%	
50) Toluene-d8	7.55	98	631192	53.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.36%	
62) 4-Bromofluorobenzene	10.29	95	219536	47.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.82%	

Target Compounds

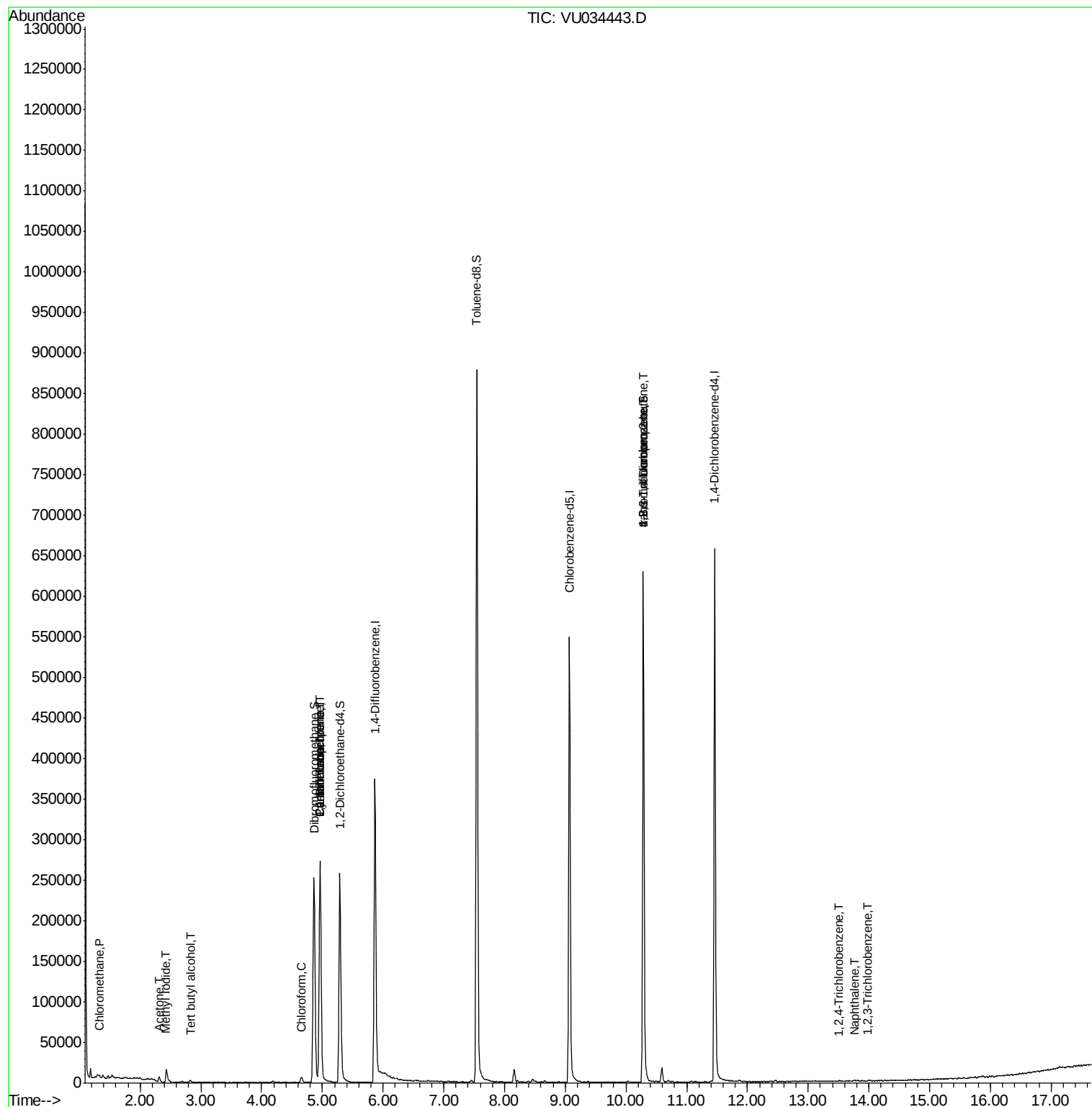
					Qvalue	
3) Chloromethane	1.33	50	934	0.287 ug/l #	71	
5) Bromomethane	1.63	94	688	Below Cal	94	
6) Chloroethane	1.74	64	196	Below Cal #	43	
10) Methyl Iodide	2.41	142	278	3.956 ug/l #	52	
11) Tert butyl alcohol	2.83	59	2096	2.952 ug/l #	73	
16) Acetone	2.31	43	7096	4.080 ug/l	93	
20) Methylene Chloride	2.69	84	623	Below Cal #	75	
30) Chloroform	4.66	83	7160	1.309 ug/l	88	
31) Cyclohexane	4.96	56	3545	0.901 ug/l #	1	
36) 1,1-Dichloropropene	4.97	75	15705	4.265 ug/l #	49	
38) Carbon Tetrachloride	4.96	117	19654	4.999 ug/l #	17	
76) 1,2,3-Trichloropropane	10.29	75	103646	24.654 ug/l #	36	
81) trans-1,4-Dichloro-2-buten	10.29	75	103646	82.908 ug/l #	100	
93) 1,2,4-Trichlorobenzene	13.51	180	258	3.504 ug/l #	58	
95) Naphthalene	13.76	128	2440	4.141 ug/l #	78	
96) 1,2,3-Trichlorobenzene	13.98	180	729	2.795 ug/l #	55	

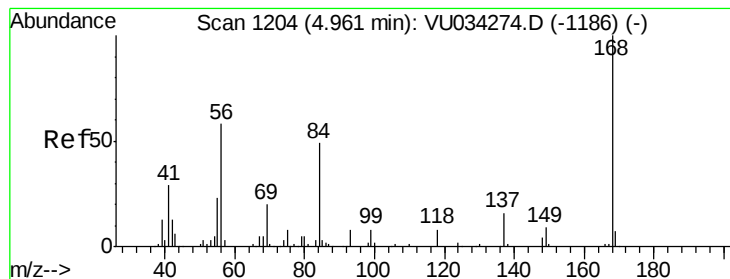
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_U\DATA\VU091019\
Data File : VU034443.D
Acq On : 10 Sep 2019 12:06
Operator : JC/SP
Sample : K4698-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
GW507-K2-35.0-40.0-090419-FD

Quant Time: Sep 11 05:53:07 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034443.D

Acq: 10 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

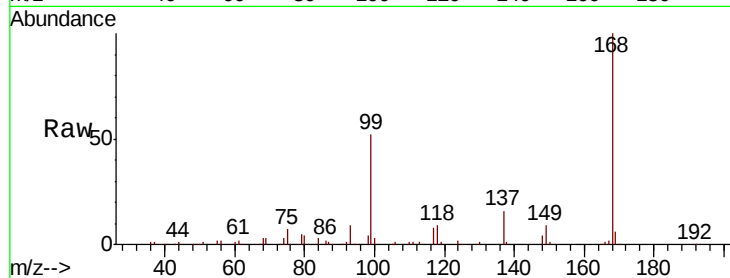
GW507-K2-35.0-40.0-090419-FD

Tgt Ion:168 Resp: 222122

Ion Ratio Lower Upper

168 100

99 51.9 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034443.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034443.D (-1186) (-)

4.96

100000

80000

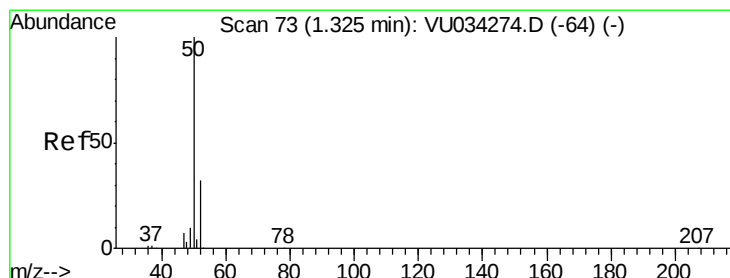
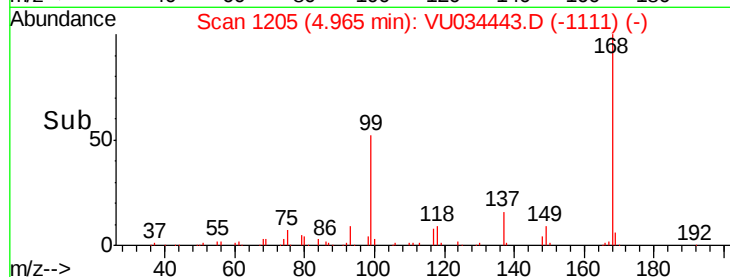
60000

40000

20000

0

Time--> 4.85 4.90 4.95 5.00 5.05



#3

Chloromethane

Concen: 0.287 ug/l

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU034443.D

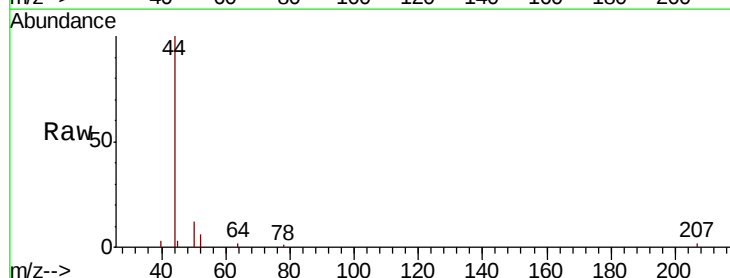
Acq: 10 Sep 2019 12:06

Tgt Ion: 50 Resp: 934

Ion Ratio Lower Upper

50 100

52 48.6 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VU034443.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VU034443.D (-1) (-)

1.33

1000

800

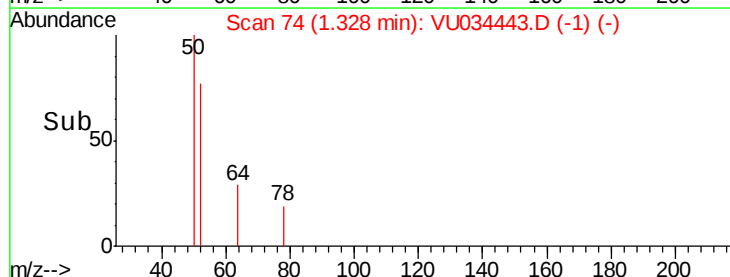
600

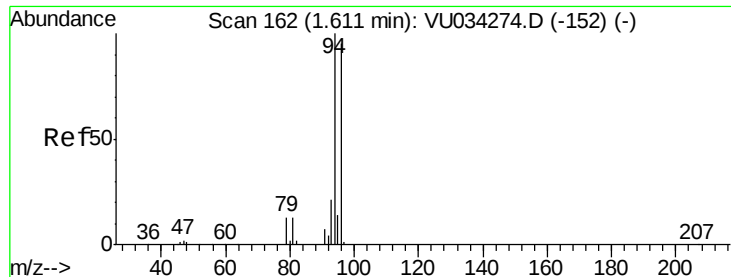
400

200

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 168

Delta R.T. 0.02 min

Lab File: VU034443.D

Acq: 10 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

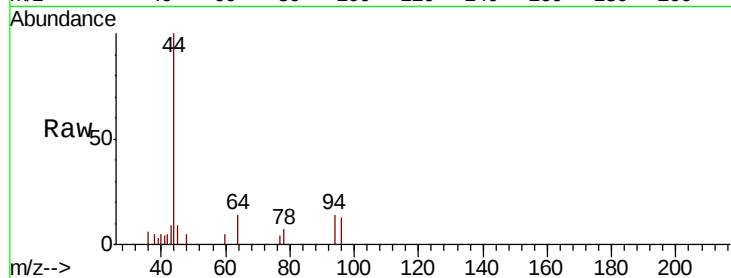
GW507-K2-35.0-40.0-090419-FD

Tgt Ion: 94 Resp: 688

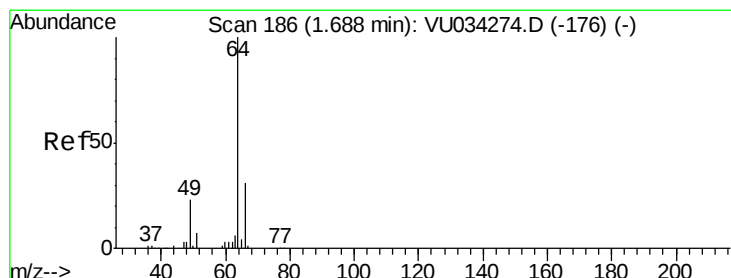
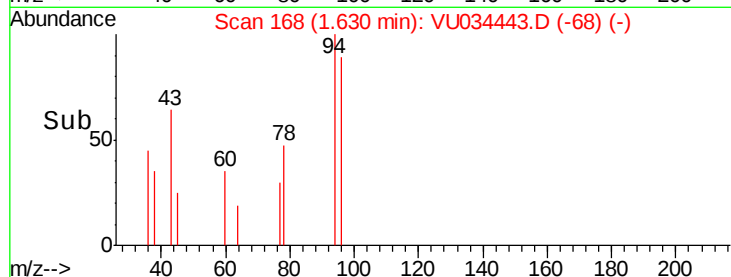
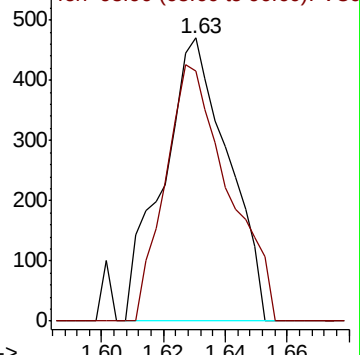
Ion Ratio Lower Upper

94 100

96 88.5 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VU034443.D (-68) (-)



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 201

Delta R.T. 0.05 min

Lab File: VU034443.D

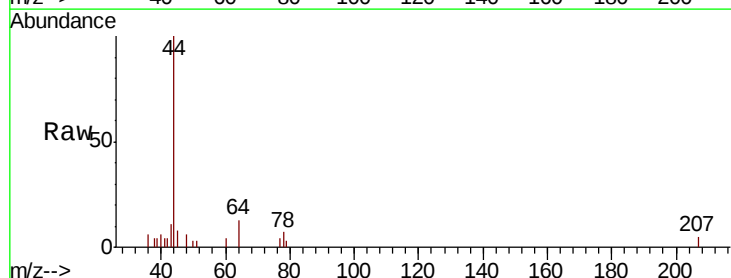
Acq: 10 Sep 2019 12:06

Tgt Ion: 64 Resp: 196

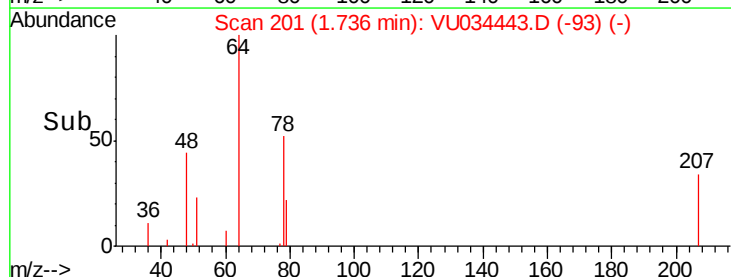
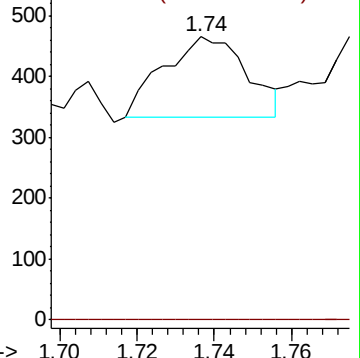
Ion Ratio Lower Upper

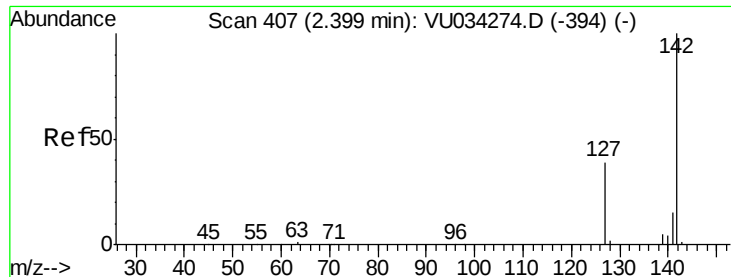
64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034443.D (-93) (-)

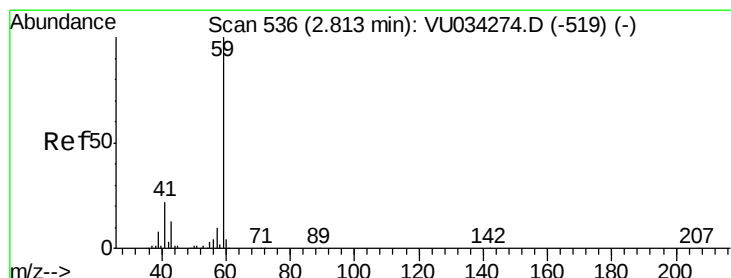
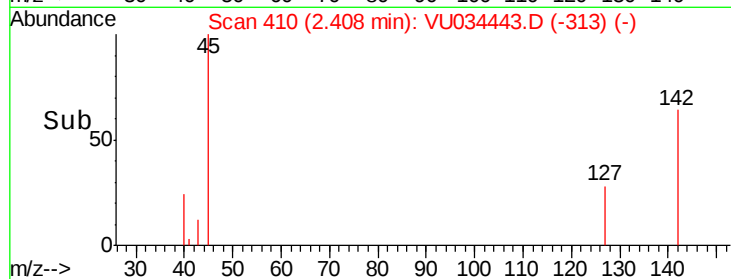
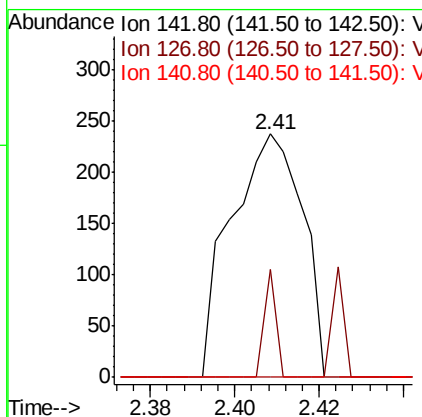
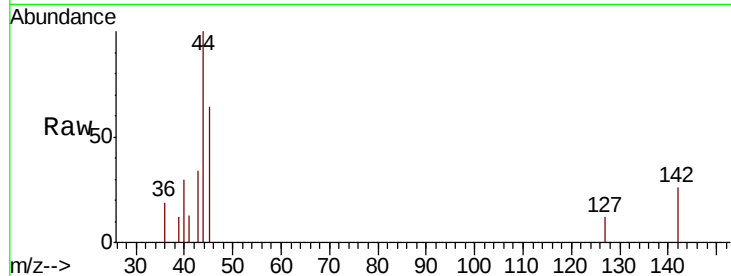




#10
Methyl Iodide
Concen: 3.956 ug/l
RT: 2.41 min Scan# 410
Delta R.T. 0.01 min
Lab File: VU034443.D
Acq: 10 Sep 2019 12:06

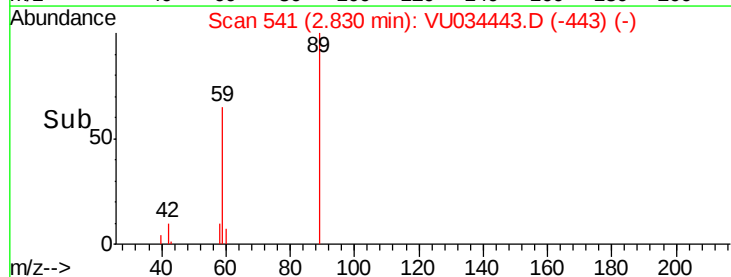
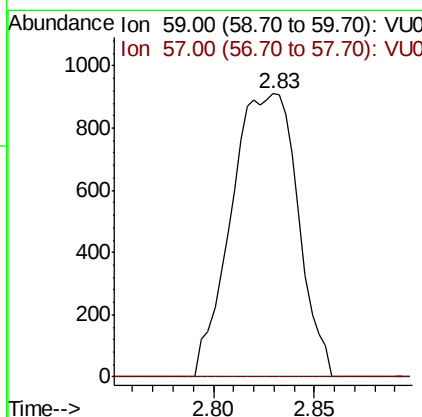
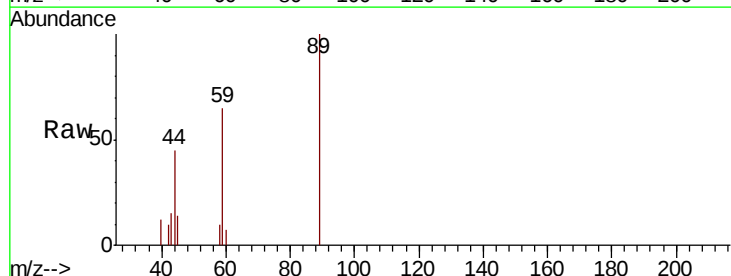
Instrument :
MSVOA_U
ClientSampleId :
GW507-K2-35.0-40.0-090419-FD

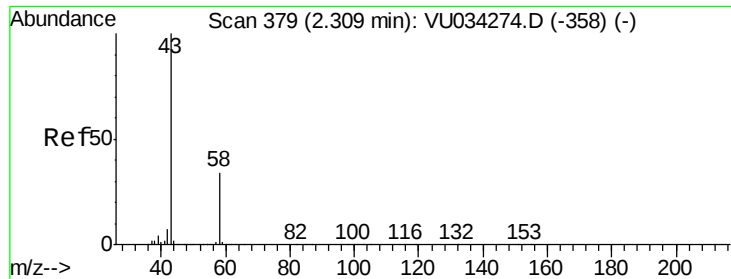
Tgt Ion: 142 Resp: 278
Ion Ratio Lower Upper
142 100
127 7.2 32.1 48.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 2.952 ug/l
RT: 2.83 min Scan# 541
Delta R.T. 0.02 min
Lab File: VU034443.D
Acq: 10 Sep 2019 12:06

Tgt Ion: 59 Resp: 2096
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#16

Acetone

Concen: 4.080 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034443.D

Acq: 10 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

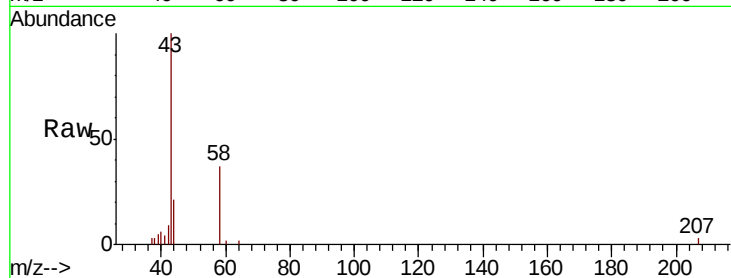
GW507-K2-35.0-40.0-090419-FD

Tgt Ion: 43 Resp: 7096

Ion Ratio Lower Upper

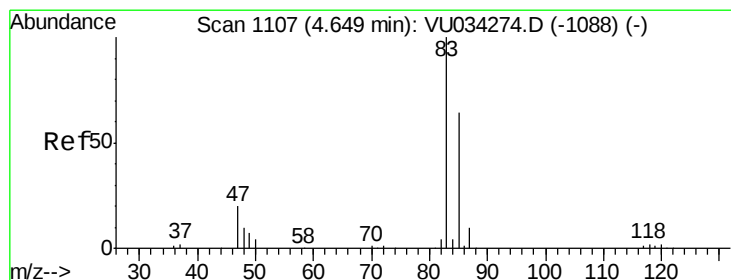
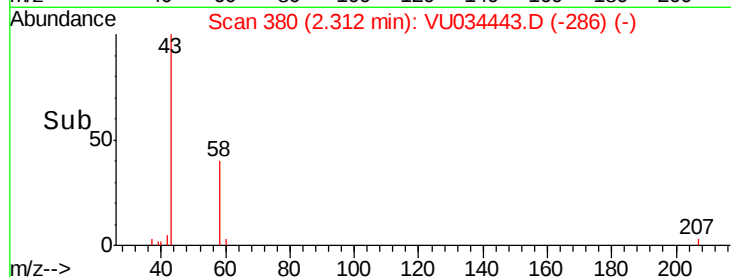
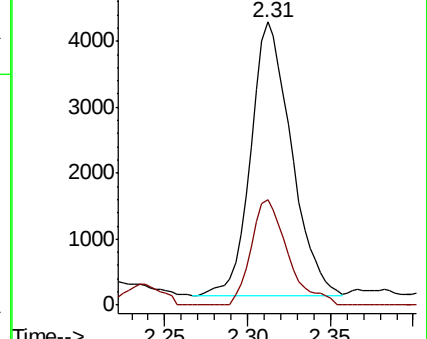
43 100

58 38.3 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034274.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU034274.D (-358) (-)



#30

Chloroform

Concen: 1.309 ug/l

RT: 4.66 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VU034443.D

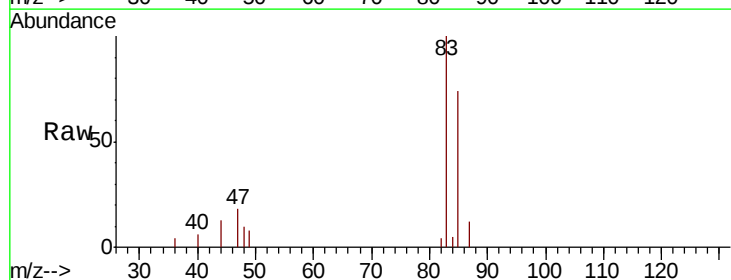
Acq: 10 Sep 2019 12:06

Tgt Ion: 83 Resp: 7160

Ion Ratio Lower Upper

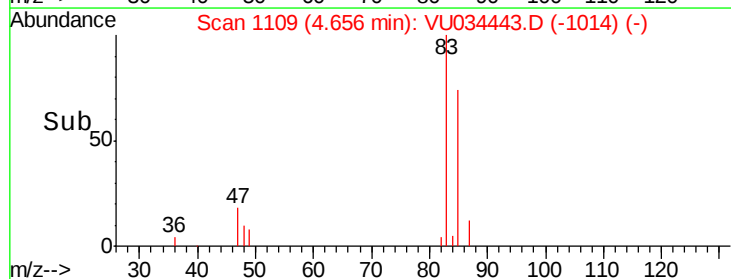
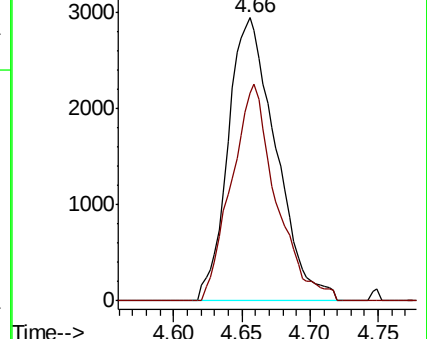
83 100

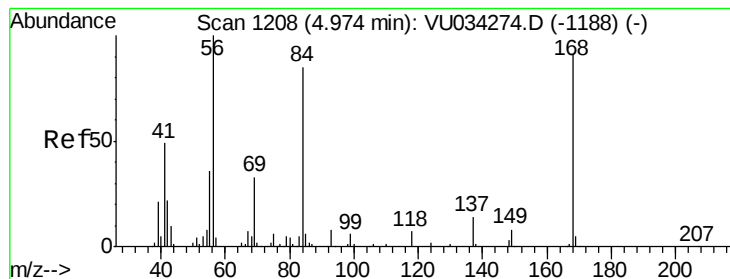
85 73.7 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VU034274.D (-1088) (-)

Ion 84.90 (84.60 to 85.60): VU034274.D (-1088) (-)





#31

Cyclohexane

Concen: 0.901 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034443.D

Acq: 10 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

GW507-K2-35.0-40.0-090419-FD

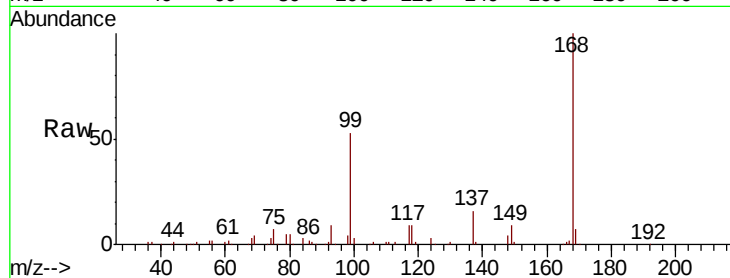
Tgt Ion: 56 Resp: 3545

Ion Ratio Lower Upper

56 100

69 207.9 26.7 40.1#

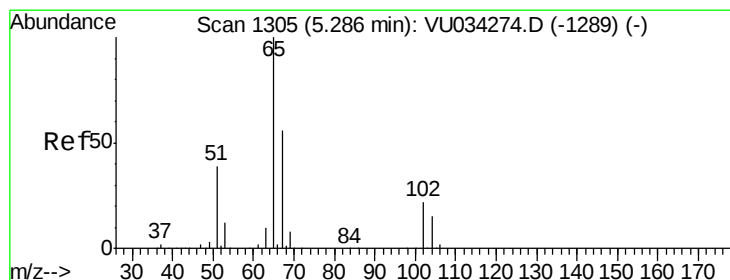
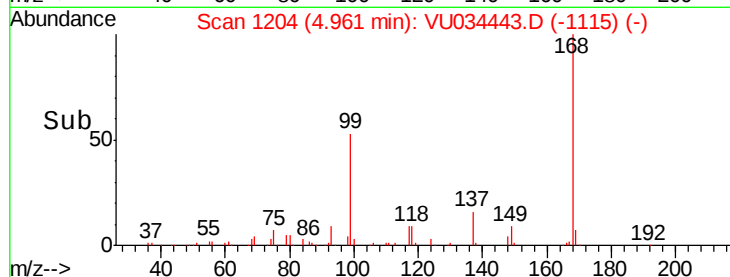
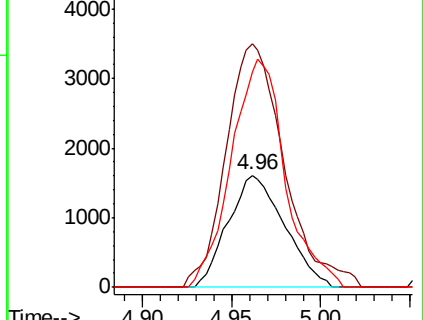
84 192.2 68.2 102.4#



Abundance Ion 56.00 (55.70 to 56.70): VU034443.D (-1188) (-)

Ion 69.00 (68.70 to 69.70): VU034443.D (-1188) (-)

Ion 84.00 (83.70 to 84.70): VU034443.D (-1188) (-)



#33

1,2-Dichloroethane-d4

Concen: 60.858 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034443.D

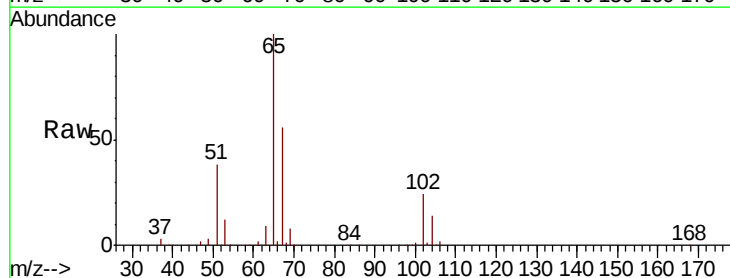
Acq: 10 Sep 2019 12:06

Tgt Ion: 65 Resp: 204530

Ion Ratio Lower Upper

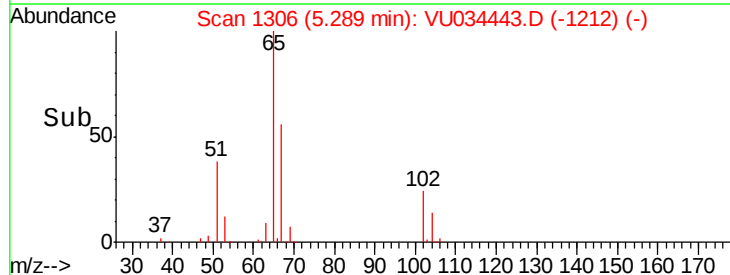
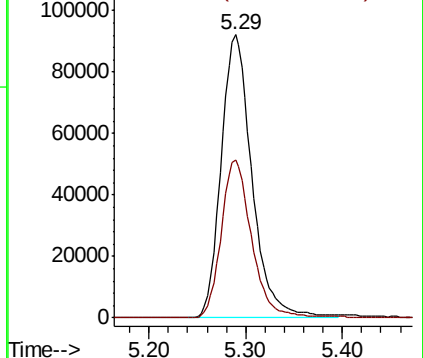
65 100

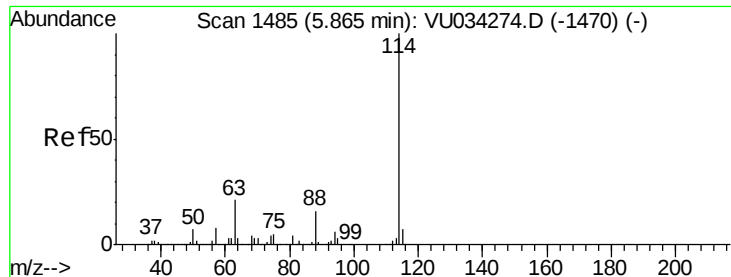
67 54.7 0.0 112.4



Abundance Ion 64.90 (64.60 to 65.60): VU034443.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034443.D (-1212) (-)

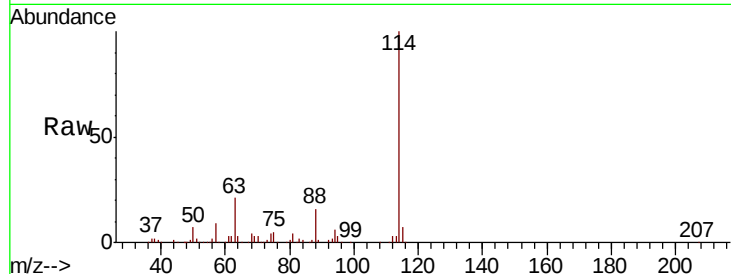




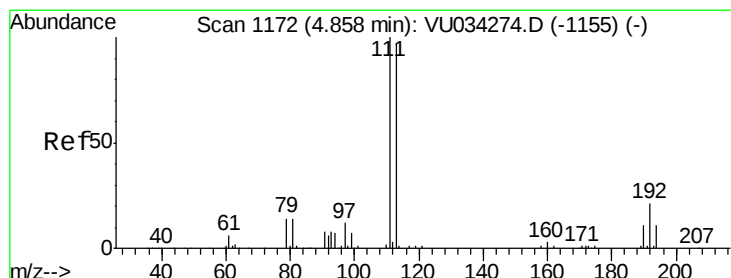
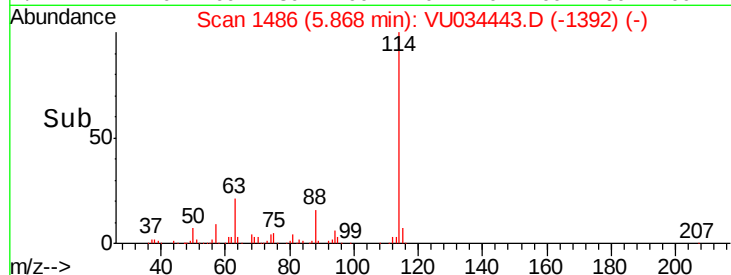
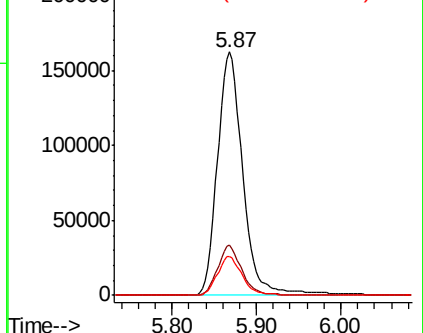
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034443.D
 Acq: 10 Sep 2019 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 GW507-K2-35.0-40.0-090419-FD

Tgt Ion:114 Resp: 339506
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.4
 88 16.2 0.0 32.4

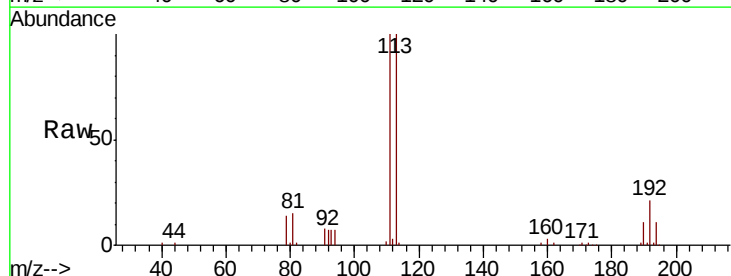


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

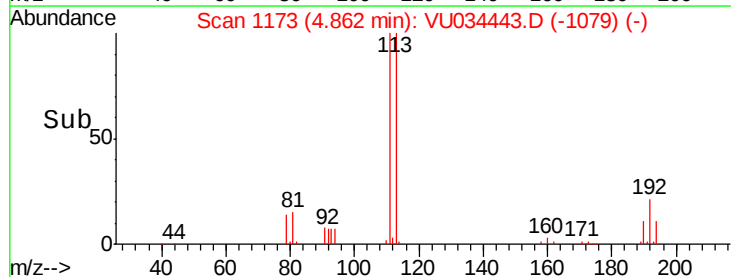
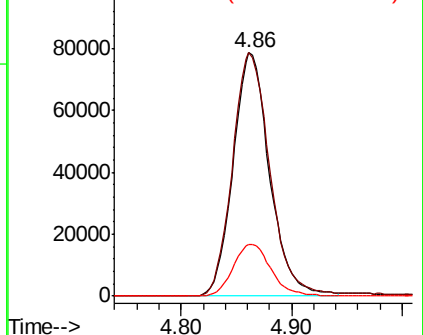


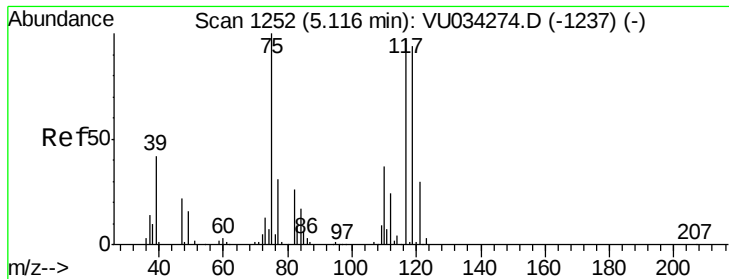
#35
 Dibromofluoromethane
 Concen: 57.023 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034443.D
 Acq: 10 Sep 2019 12:06

Tgt Ion:113 Resp: 180142
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.5 122.3
 192 22.3 17.8 26.8



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: 4.265 ug/l

RT: 4.97 min Scan# 1206

Delta R.T. -0.15 min

Lab File: VU034443.D

Acq: 10 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

GW507-K2-35.0-40.0-090419-FD

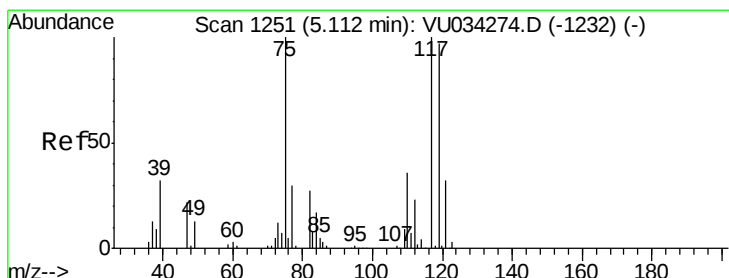
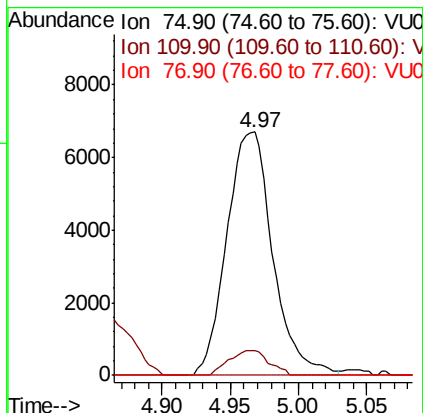
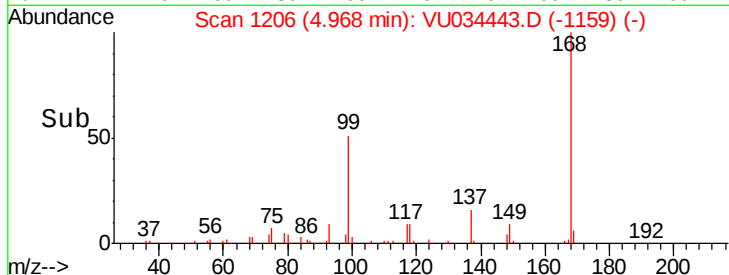
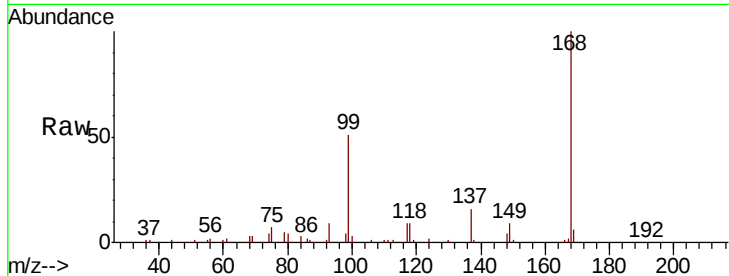
Tgt Ion: 75 Resp: 15705

Ion Ratio Lower Upper

75 100

110 8.9 18.3 54.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 4.999 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034443.D

Acq: 10 Sep 2019 12:06

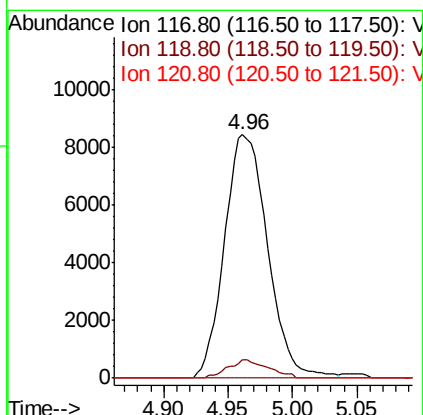
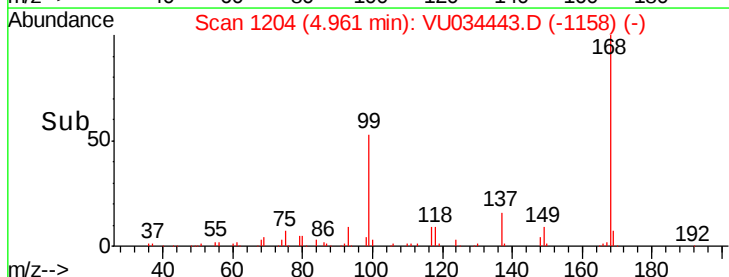
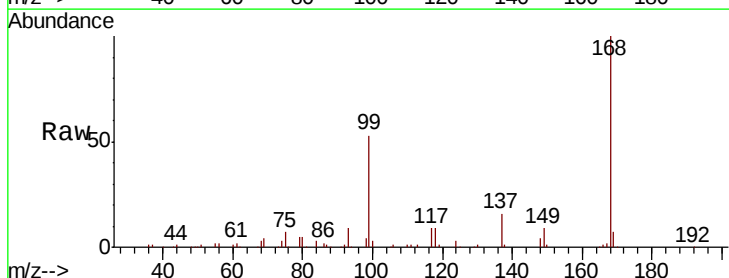
Tgt Ion: 117 Resp: 19654

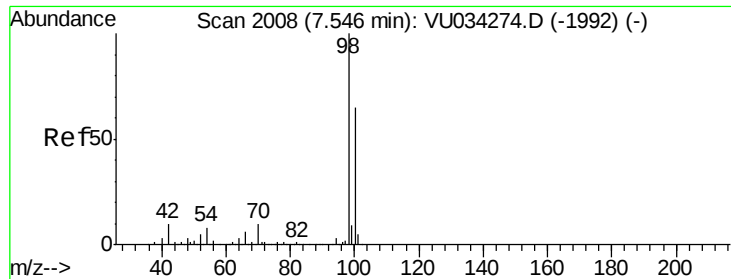
Ion Ratio Lower Upper

117 100

119 7.3 77.8 116.6#

121 0.0 25.2 37.8#

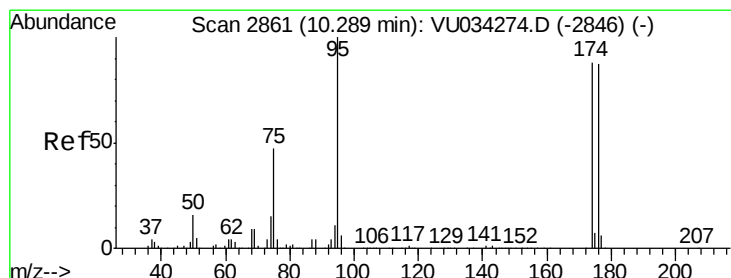
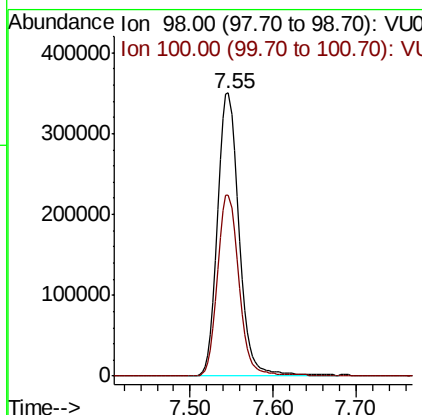
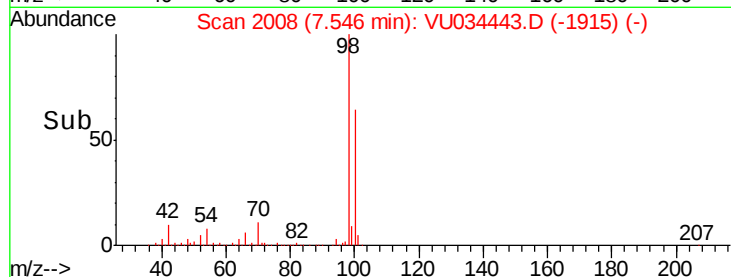
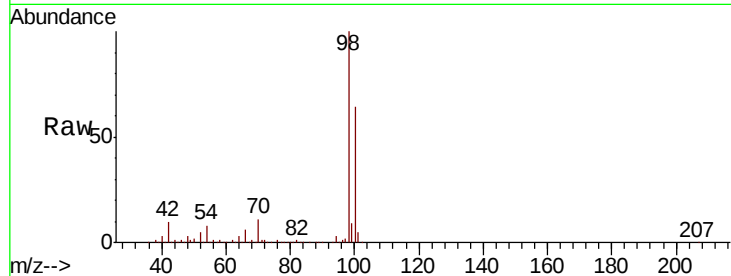




#50
Toluene-d8
Concen: 53.181 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034443.D
Acq: 10 Sep 2019 12:06

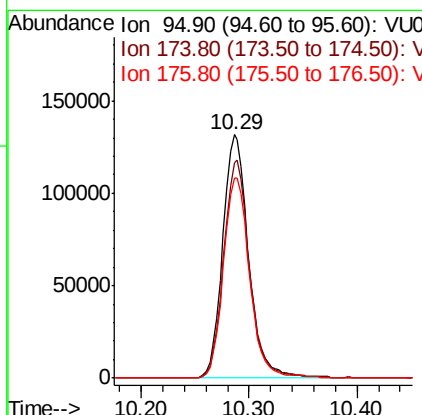
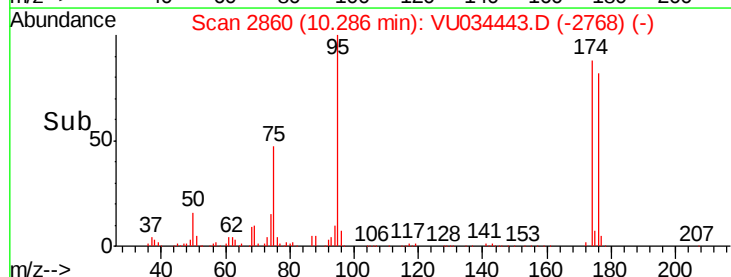
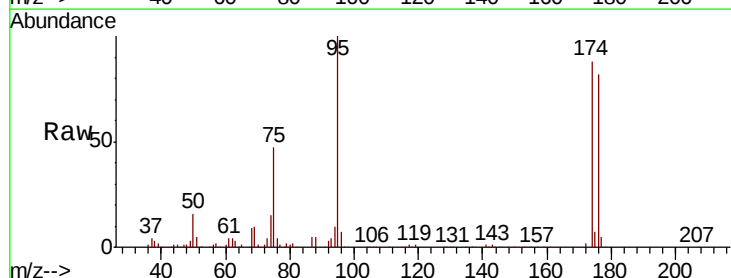
Instrument :
MSVOA_U
ClientSampleId :
GW507-K2-35.0-40.0-090419-FD

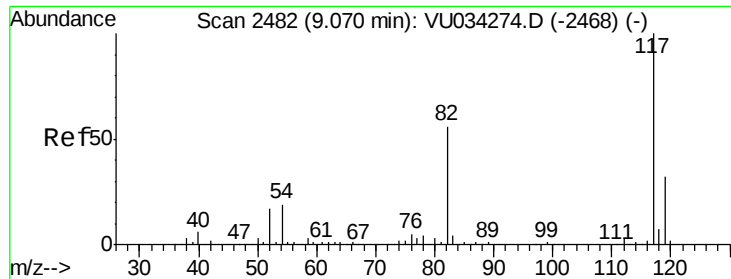
Tgt Ion: 98 Resp: 631192
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 47.908 ug/l
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VU034443.D
Acq: 10 Sep 2019 12:06

Tgt Ion: 95 Resp: 219536
Ion Ratio Lower Upper
95 100
174 90.3 0.0 175.2
176 83.8 0.0 168.0

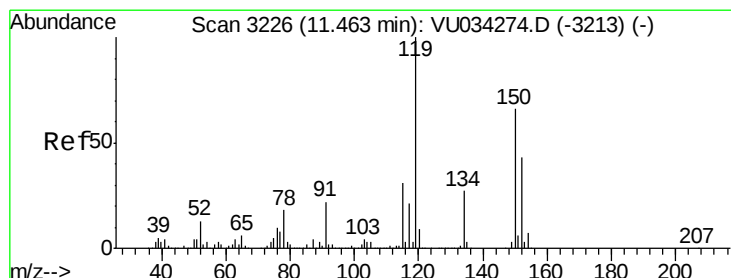
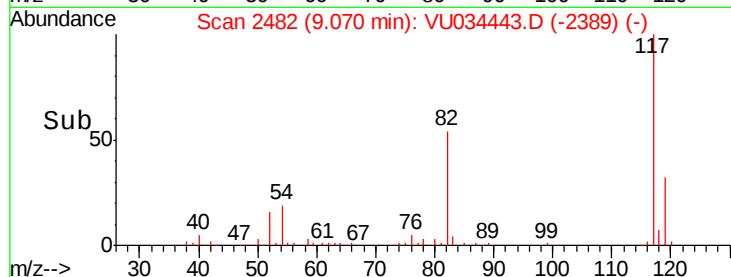
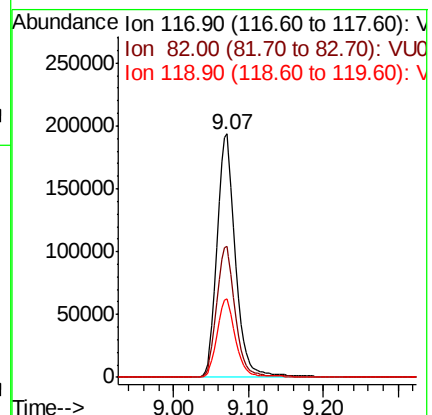
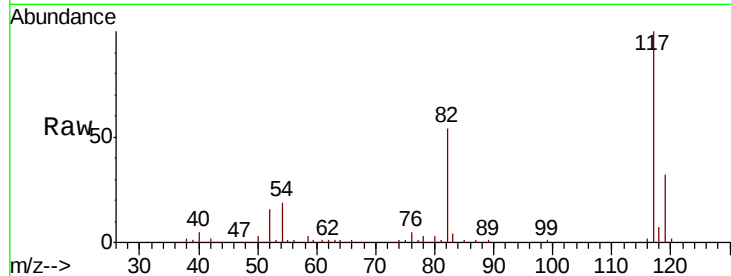




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034443.D
Acq: 10 Sep 2019 12:06

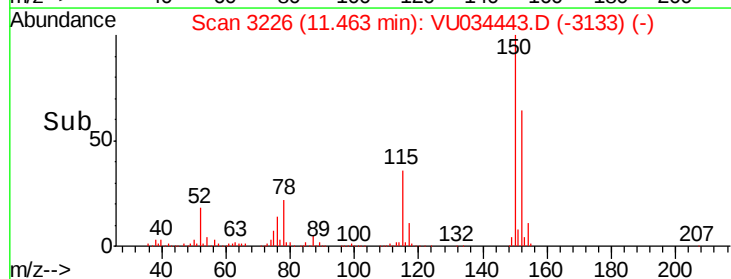
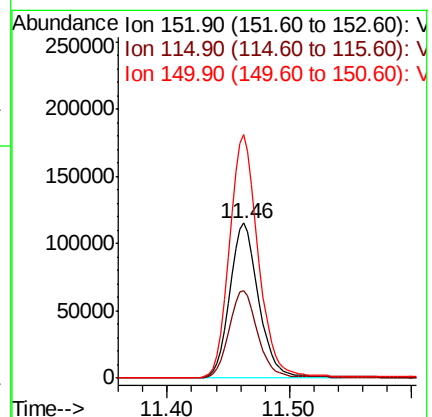
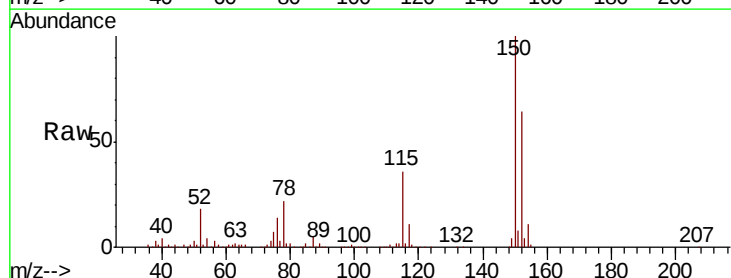
Instrument :
MSVOA_U
ClientSampleId :
GW507-K2-35.0-40.0-090419-FD

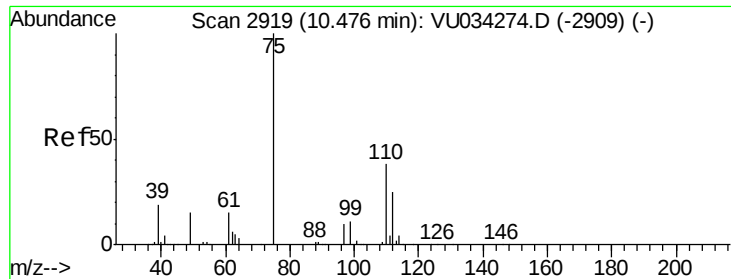
Tgt Ion:117 Resp: 335229
Ion Ratio Lower Upper
117 100
82 53.8 44.6 67.0
119 32.4 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VU034443.D
Acq: 10 Sep 2019 12:06

Tgt Ion:152 Resp: 192599
Ion Ratio Lower Upper
152 100
115 55.7 39.1 117.3
150 156.1 0.0 345.4





#76

1,2,3-Trichloropropane

Concen: 24.654 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.19 min

Lab File: VU034443.D

Acq: 10 Sep 2019 12:06

Instrument :

MSVOA_U

ClientSampleId :

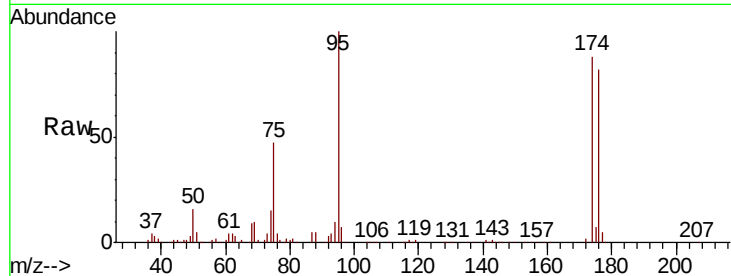
GW507-K2-35.0-40.0-090419-FD

Tgt Ion: 75 Resp: 103646

Ion Ratio Lower Upper

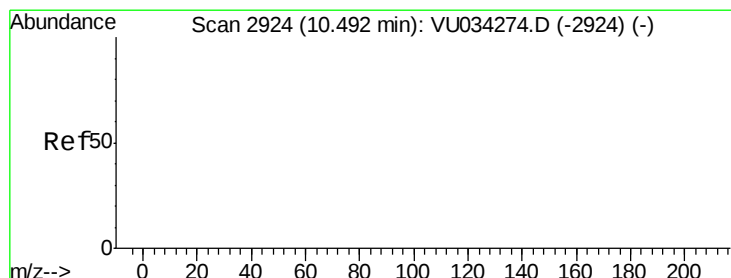
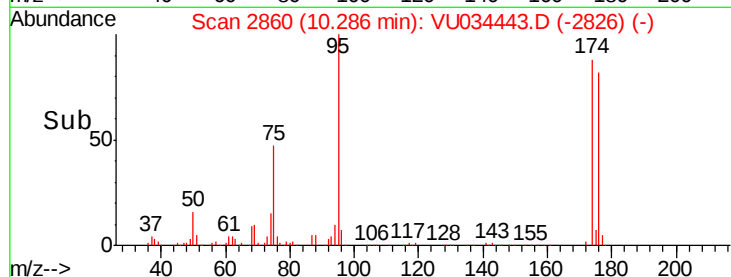
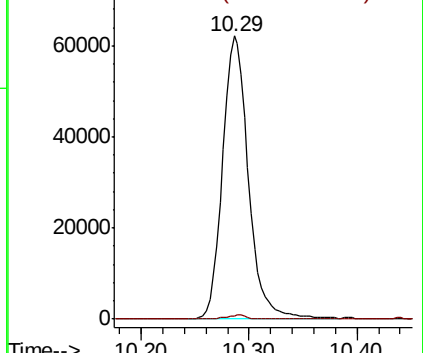
75 100

77 1.1 20.8 62.2#



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: 82.908 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.21 min

Lab File: VU034443.D

Acq: 10 Sep 2019 12:06

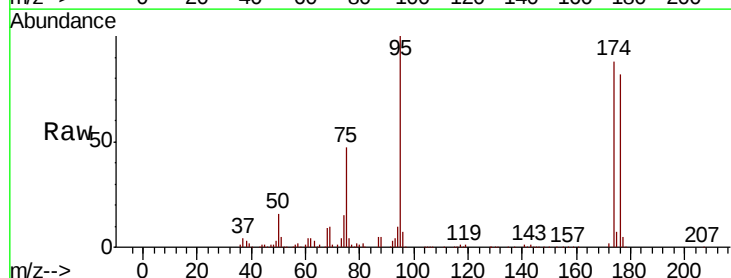
Tgt Ion: 75 Resp: 103646

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

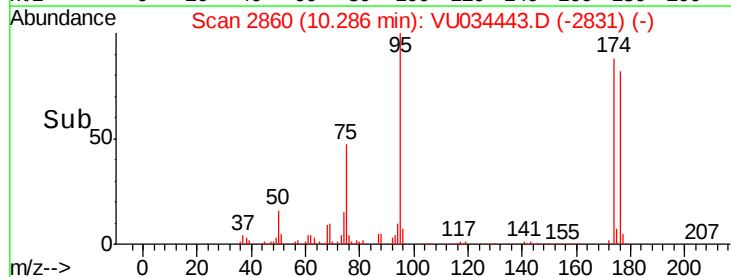
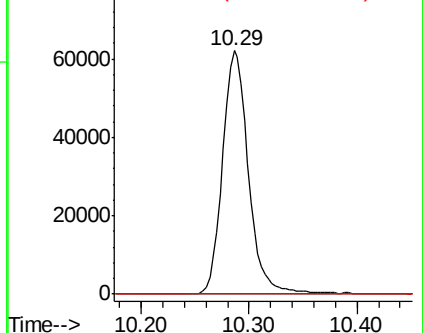
89 0.0 0.0 0.0

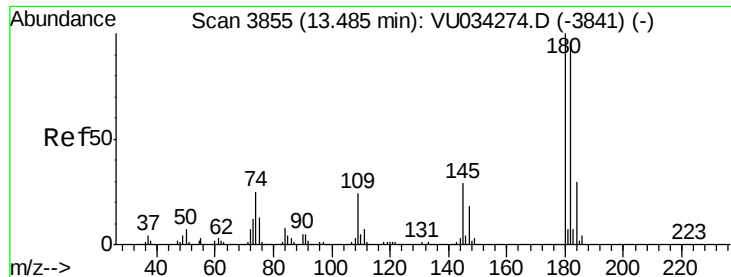


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

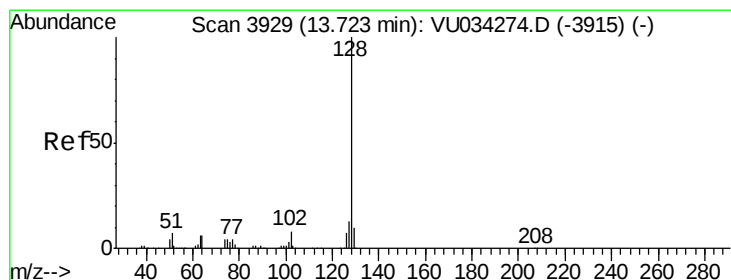
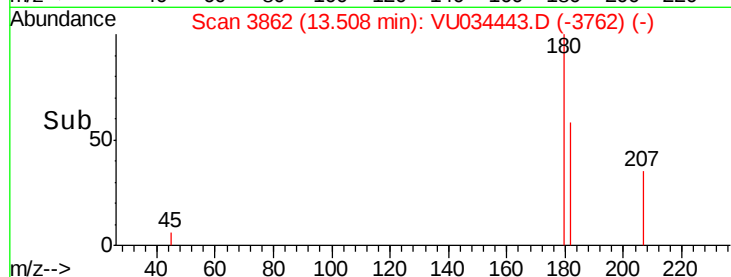
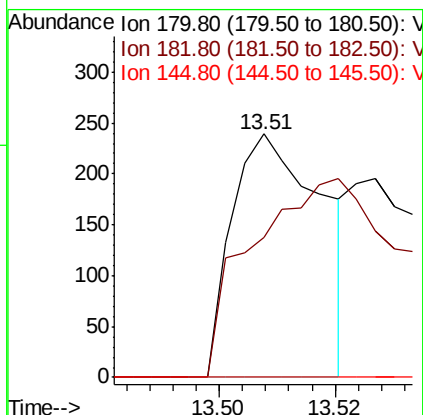
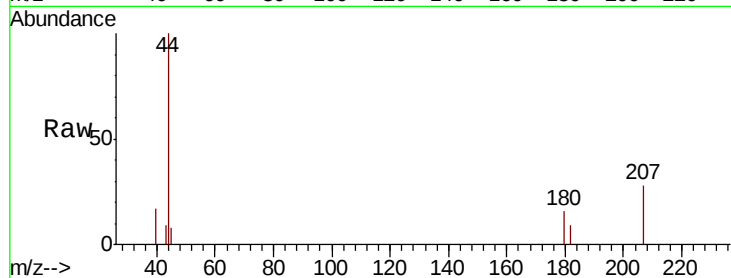




#93
 1,2,4-Trichlorobenzene
 Concen: 3.504 ug/l
 RT: 13.51 min Scan# 3862
 Delta R.T. 0.02 min
 Lab File: VU034443.D
 Acq: 10 Sep 2019 12:06

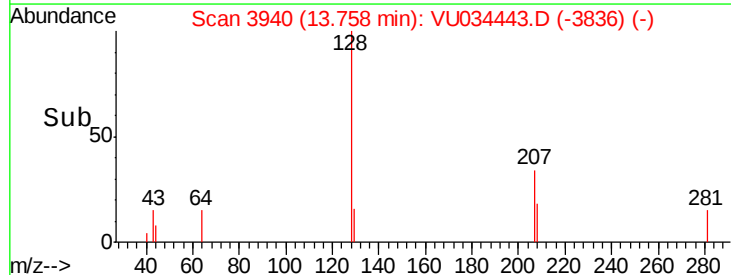
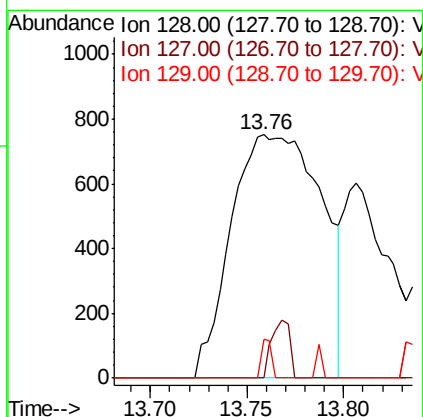
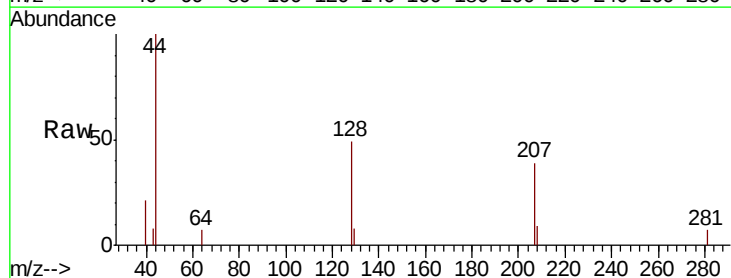
Instrument :
 MSVOA_U
 ClientSampleId :
 GW507-K2-35.0-40.0-090419-FD

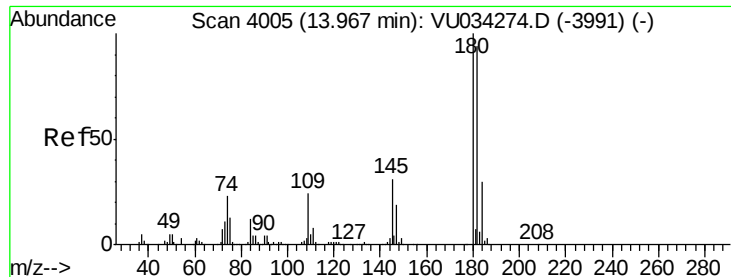
Tgt Ion:180 Resp: 258
 Ion Ratio Lower Upper
 180 100
 182 133.7 47.9 143.8
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 4.141 ug/l
 RT: 13.76 min Scan# 3940
 Delta R.T. 0.04 min
 Lab File: VU034443.D
 Acq: 10 Sep 2019 12:06

Tgt Ion:128 Resp: 2440
 Ion Ratio Lower Upper
 128 100
 127 4.7 10.6 15.8#
 129 1.8 8.4 12.6#

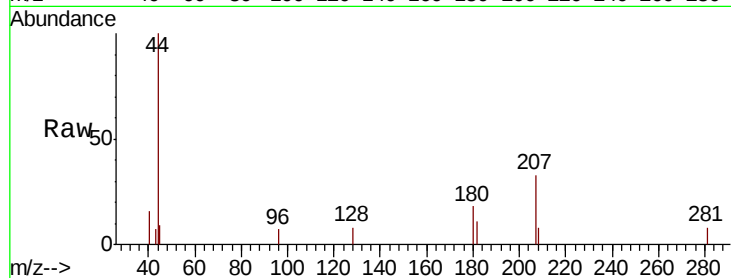




#96
 1,2,3-Trichlorobenzene
 Concen: 2.795 ug/l
 RT: 13.98 min Scan# 4009
 Delta R.T. 0.01 min
 Lab File: VU034443.D
 Acq: 10 Sep 2019 12:06

Instrument :
 MSVOA_U
 ClientSampleId :
 GW507-K2-35.0-40.0-090419-FD

Tgt Ion:180 Resp: 729
 Ion Ratio Lower Upper
 180 100
 182 54.9 48.4 145.0
 145 2.6 15.4 46.4#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

