

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090719\
 Data File : VU034321.D
 Acq On : 06 Sep 2019 11:32
 Operator : JC/SP
 Sample : K4722-18
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 06 12:24:45 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

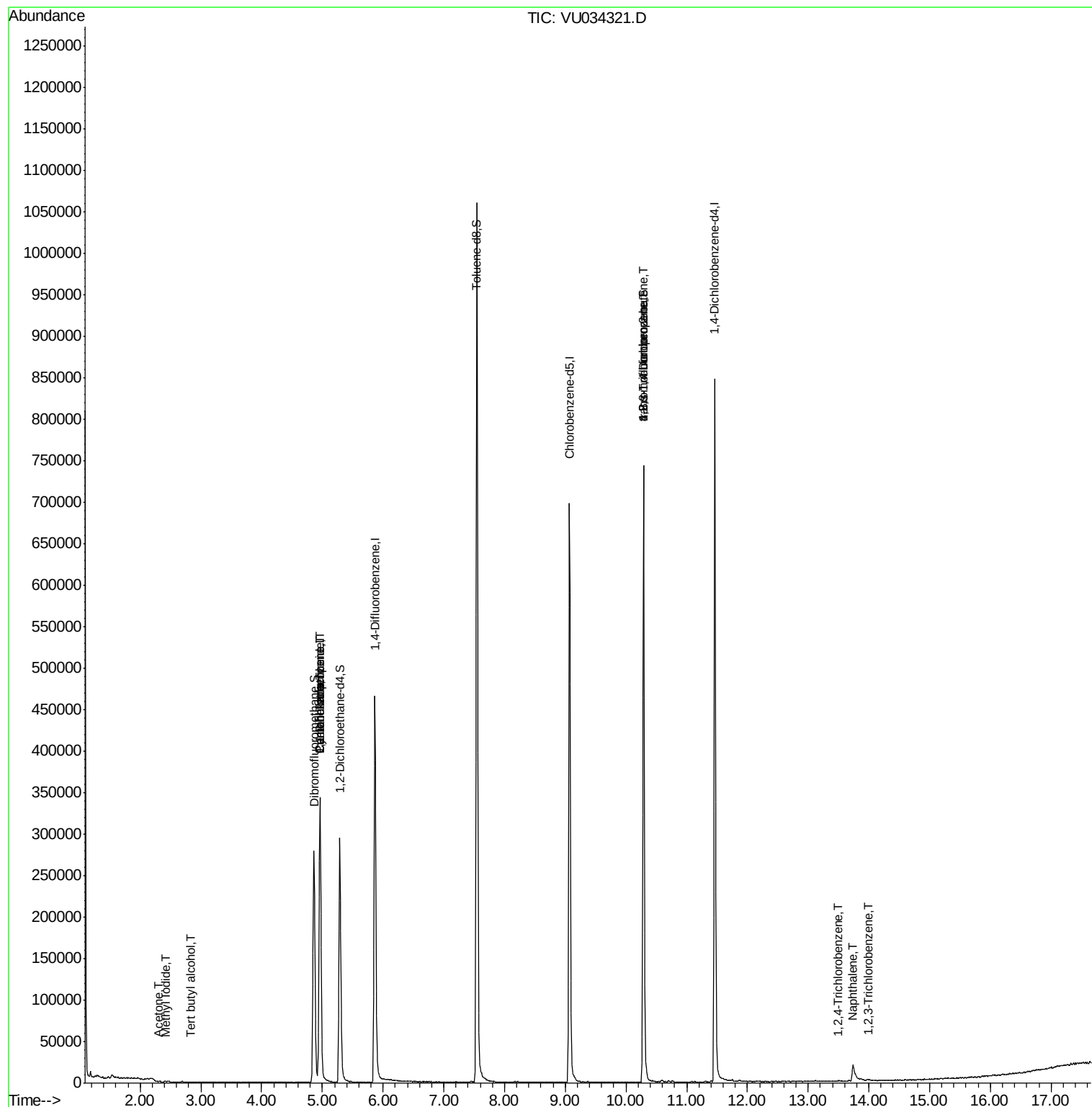
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	284332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	425614	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	421438	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	246021	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	232090	53.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.90%	
35) Dibromofluoromethane	4.86	113	200426	50.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.22%	
50) Toluene-d8	7.55	98	747307	50.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	10.29	95	255377	44.45	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.90%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.60	94	46	Below Cal	#	2
6) Chloroethane	1.69	64	105	Below Cal	#	43
10) Methyl Iodide	2.41	142	564	4.019	ug/l #	51
11) Tert butyl alcohol	2.82	59	354	0.389	ug/l #	73
16) Acetone	2.31	43	1169	0.525	ug/l #	78
20) Methylene Chloride	2.69	84	495	Below Cal	#	72
31) Cyclohexane	4.96	56	4917	0.976	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	19962	4.325	ug/l #	49
38) Carbon Tetrachloride	4.96	117	25812	5.237	ug/l #	16
76) 1,2,3-Trichloropropane	10.29	75	120677	22.472	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	120677	75.570	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.50	180	450	3.524	ug/l #	78
95) Naphthalene	13.74	128	32734	5.804	ug/l	98
96) 1,2,3-Trichlorobenzene	13.98	180	732	2.762	ug/l #	12

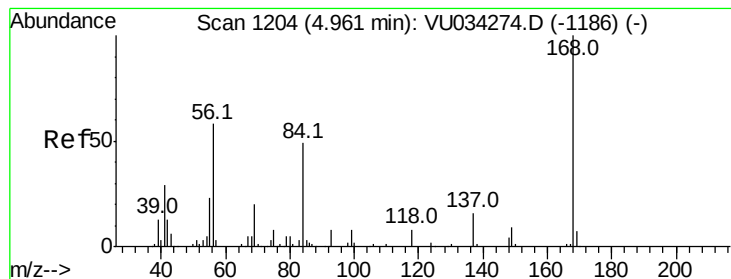
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.00 min

Lab File: VU034321.D

Acq: 06 Sep 2019 11:32

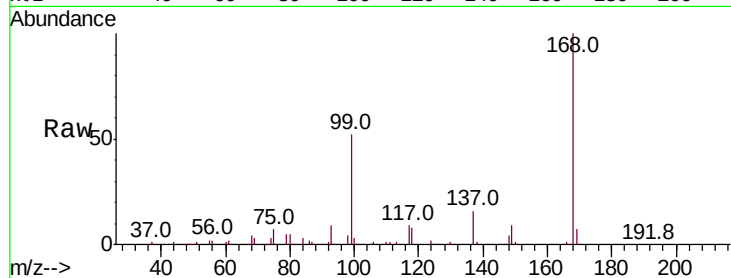
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 284332

Ion Ratio Lower Upper

168 100

99 51.8 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): VU034274.D (-1186) (-)

Ion 98.90 (98.60 to 99.60): VU034274.D (-1186) (-)

4.96

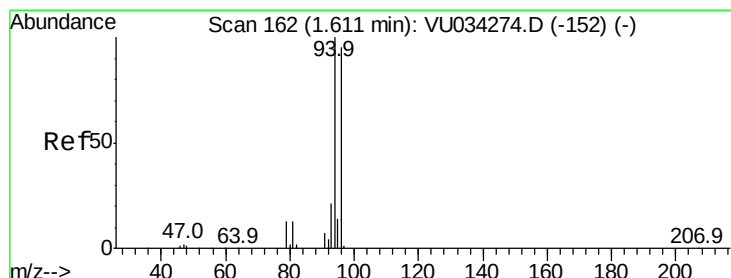
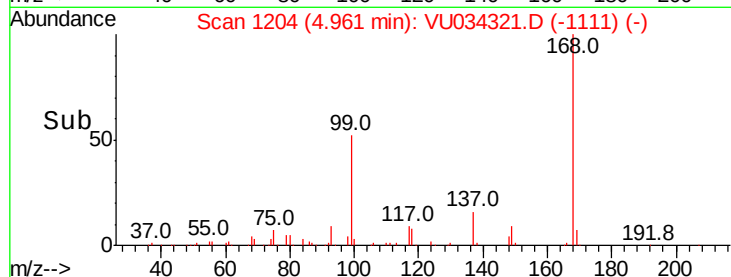
100000

50000

0

4.90 5.00 5.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.60 min Scan# 158

Delta R.T. -0.01 min

Lab File: VU034321.D

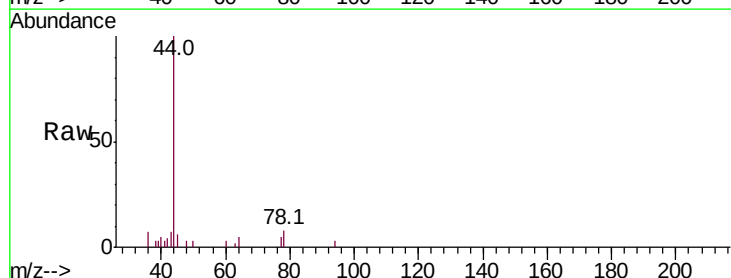
Acq: 06 Sep 2019 11:32

Tgt Ion: 94 Resp: 46

Ion Ratio Lower Upper

94 100

96 0.0 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VU034274.D (-152) (-)

Ion 95.90 (95.60 to 96.60): VU034274.D (-152) (-)

1.60

200

150

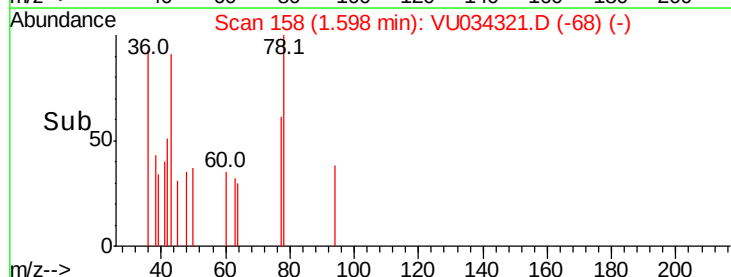
100

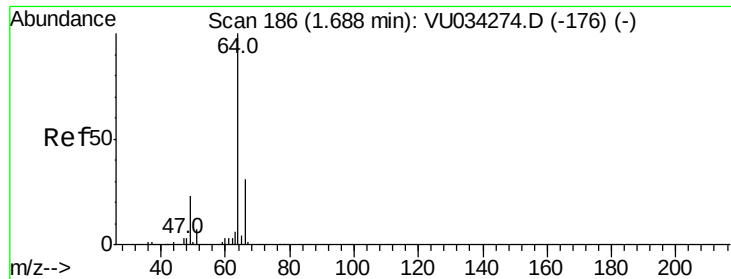
50

0

1.59 1.60 1.61

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU034321.D

Acq: 06 Sep 2019 11:32

Instrument :

MSVOA_U

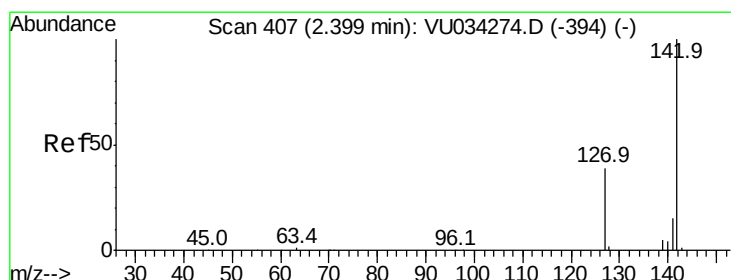
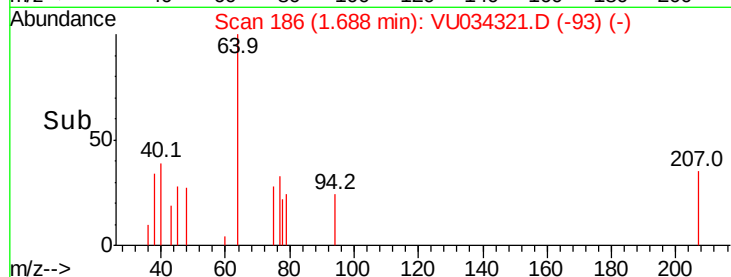
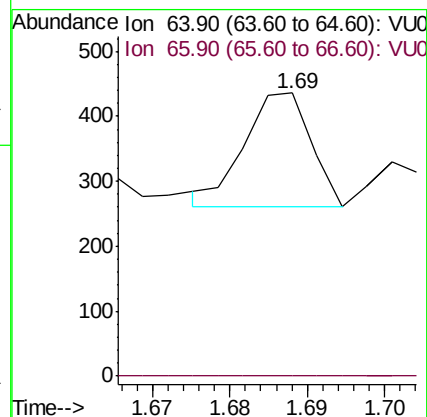
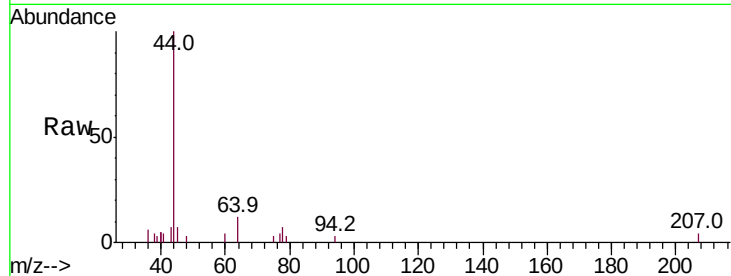
ClientSampleId :

Tot Ion: 64 Resp: 105

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



#10

Methyl Iodide

Concen: 4.019 ug/l

RT: 2.41 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU034321.D

Acq: 06 Sep 2019 11:32

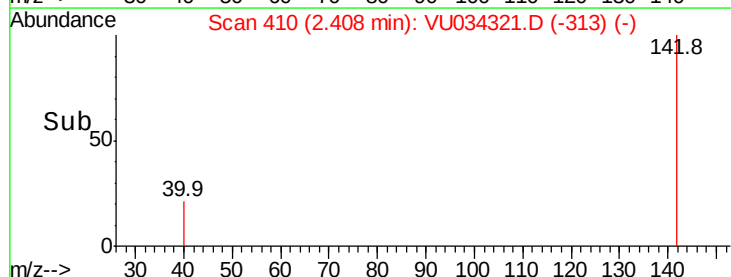
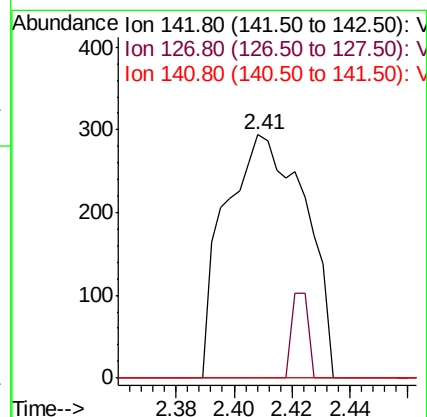
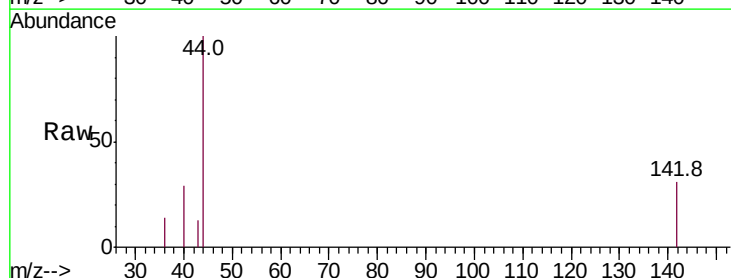
Tgt Ion: 142 Resp: 564

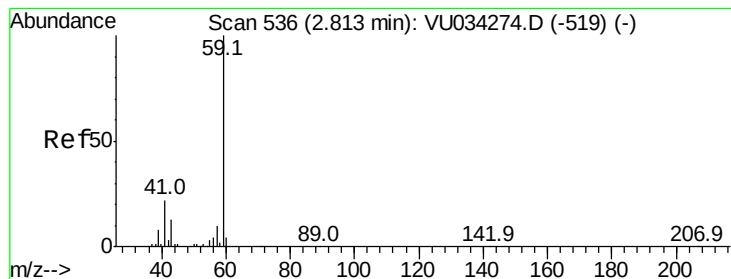
Ion Ratio Lower Upper

142 100

127 7.1 32.1 48.1#

141 0.0 11.5 17.3#



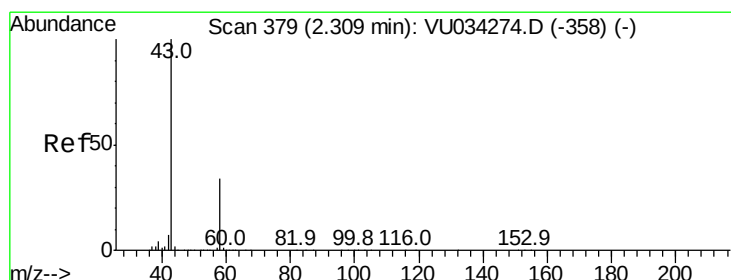
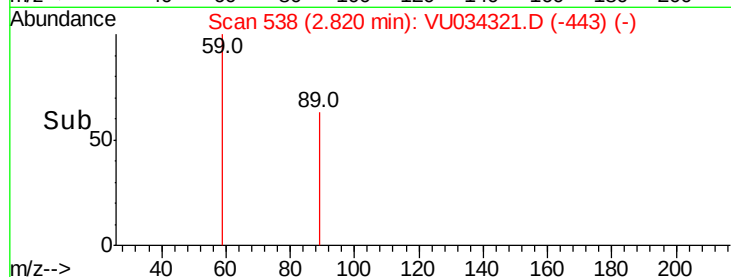
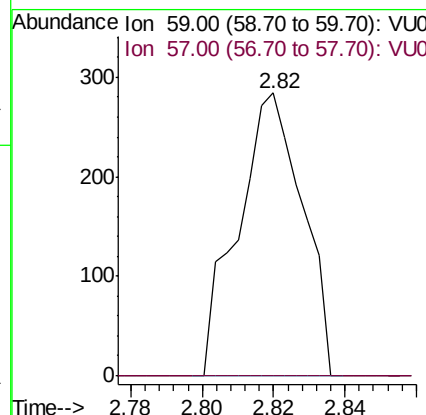
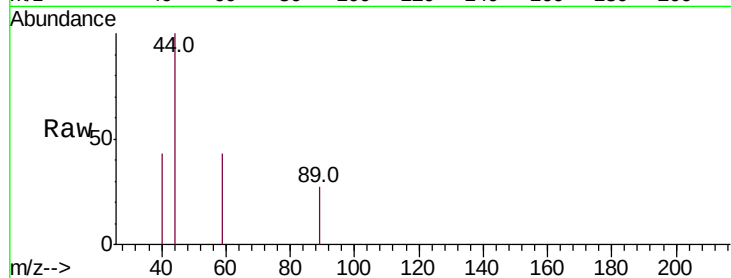


#11

Tert butyl alcohol
 Concen: 0.389 ug/l
 RT: 2.82 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: VU034321.D
 Acq: 06 Sep 2019 11:32

Instrument :
 MSVOA_U
 ClientSampled :

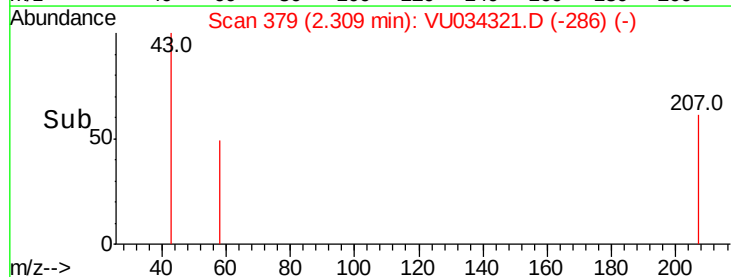
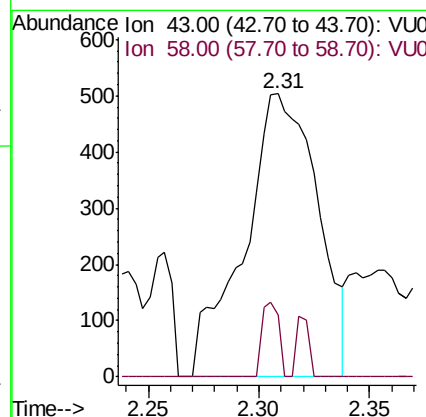
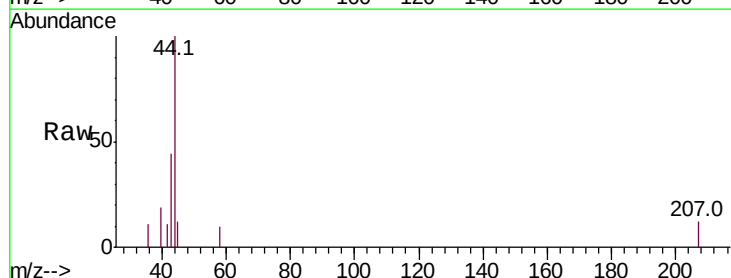
Tot Ion: 59 Resp: 354
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

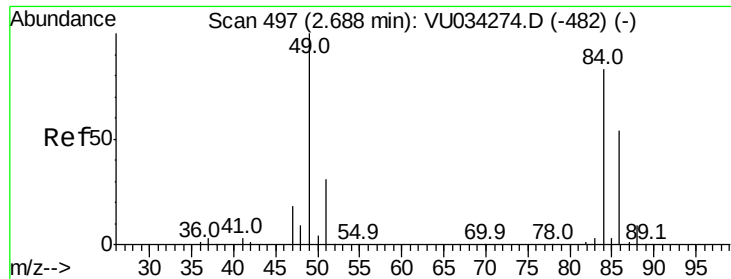


#16

Acetone
 Concen: 0.525 ug/l
 RT: 2.31 min Scan# 379
 Delta R.T. -0.00 min
 Lab File: VU034321.D
 Acq: 06 Sep 2019 11:32

Tgt Ion: 43 Resp: 1169
 Ion Ratio Lower Upper
 43 100
 58 22.1 27.6 41.4#

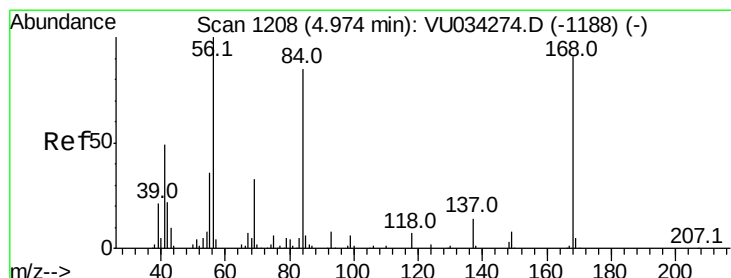
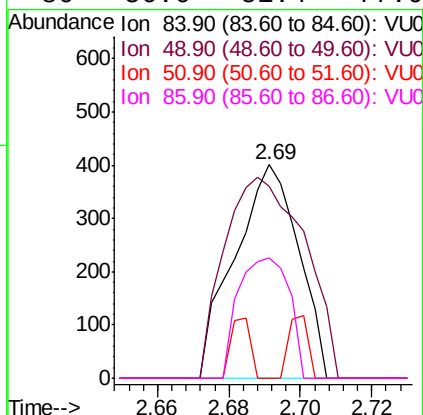
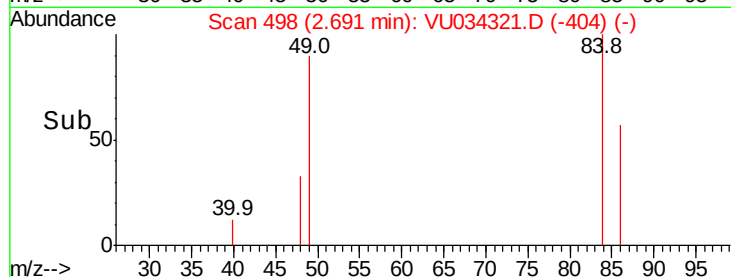
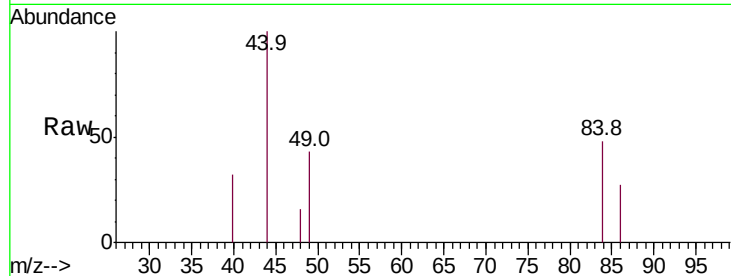




#20
Methylene Chloride
Concen: Below Cal
RT: 2.69 min Scan# 498
Delta R.T. 0.00 min
Lab File: VU034321.D
Acq: 06 Sep 2019 11:32

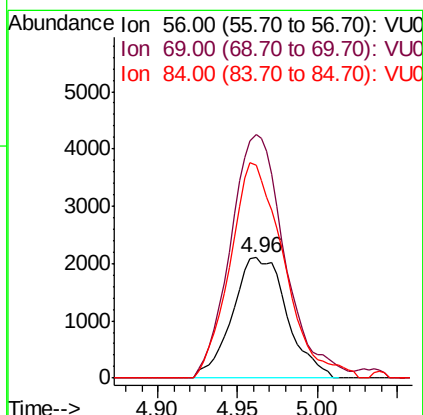
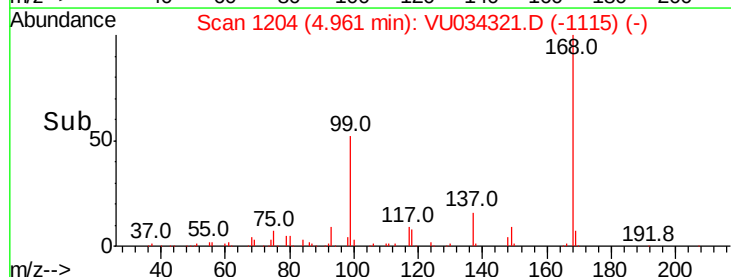
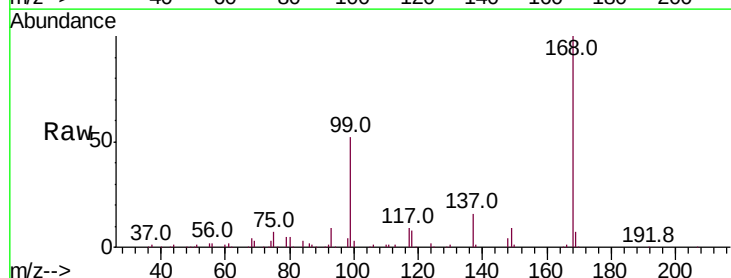
Instrument :
MSVOA_U
ClientSampleId :

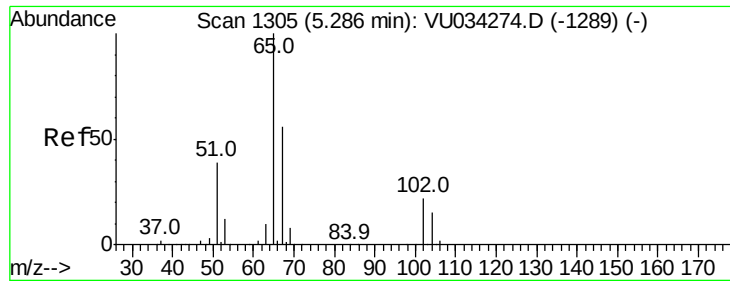
Tot Ion: 84 Resp: 495
Ion Ratio Lower Upper
84 100
49 90.0 96.0 144.0#
51 0.0 30.0 45.0#
86 56.6 51.4 77.0



#31
Cyclohexane
Concen: 0.976 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034321.D
Acq: 06 Sep 2019 11:32

Tgt Ion: 56 Resp: 4917
Ion Ratio Lower Upper
56 100
69 202.0 26.7 40.1#
84 176.6 68.2 102.4#





#33

1,2-Dichloroethane-d4

Concen: 53.949 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

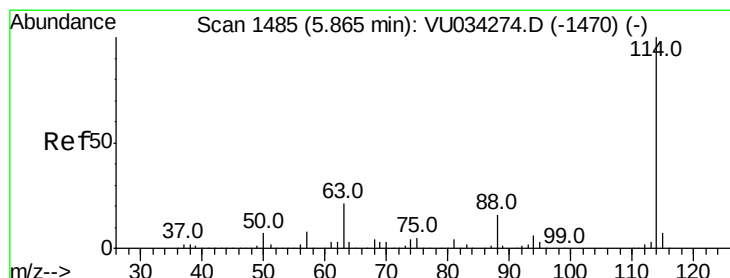
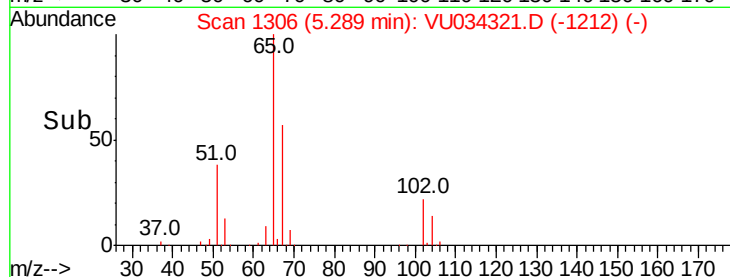
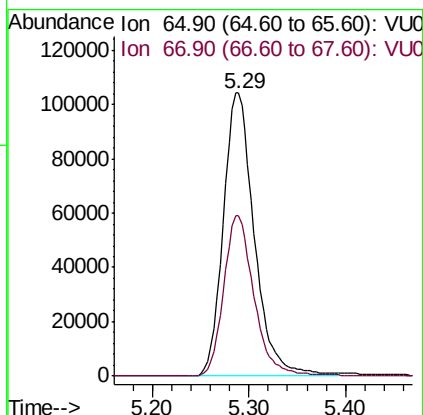
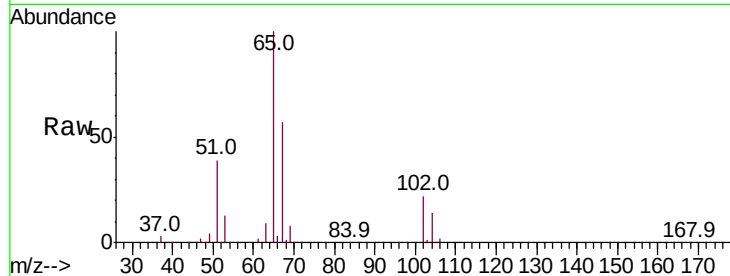
Lab File: VU034321.D

Acq: 06 Sep 2019 11:32

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 65 Resp: 232090

Ion	Ratio	Lower	Upper
65	100		
67	55.7	0.0	112.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

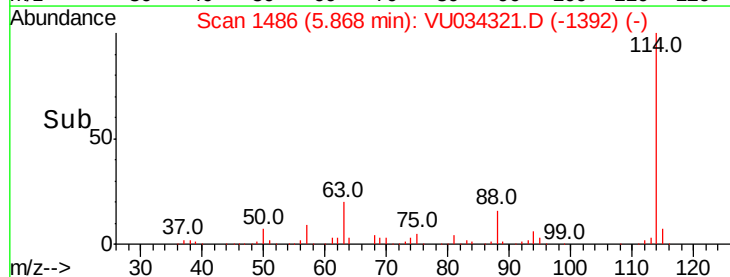
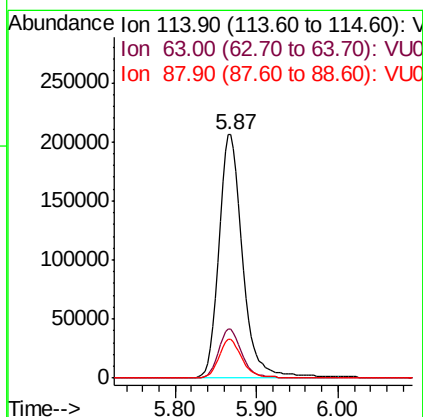
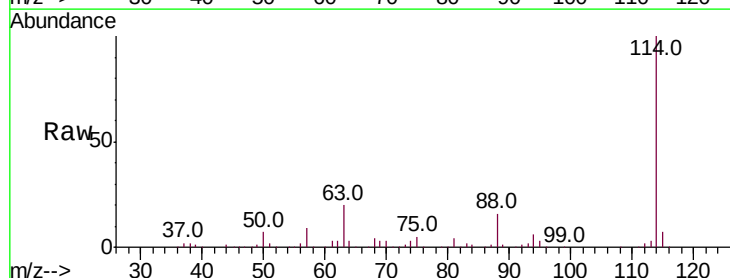
Delta R.T. 0.00 min

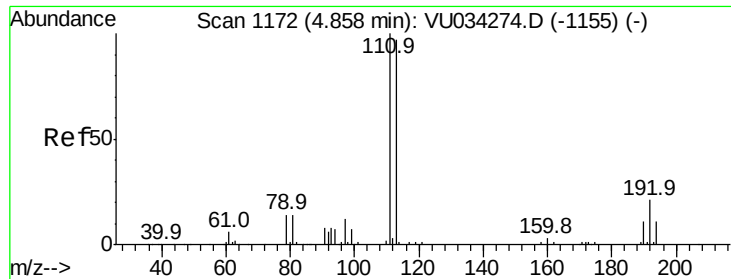
Lab File: VU034321.D

Acq: 06 Sep 2019 11:32

Tgt Ion: 114 Resp: 425614

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	42.4
88	15.8	0.0	32.4

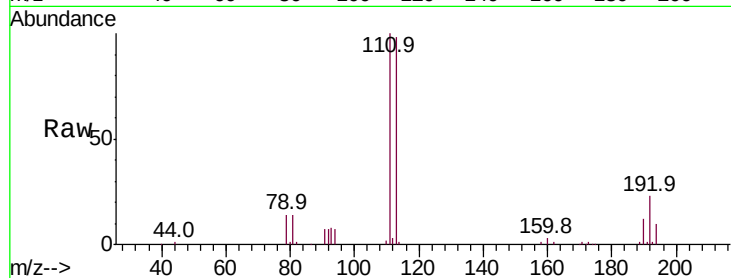




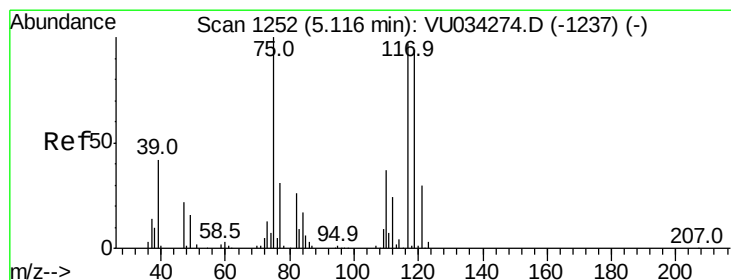
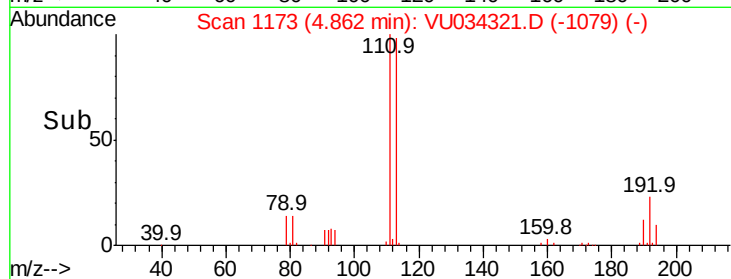
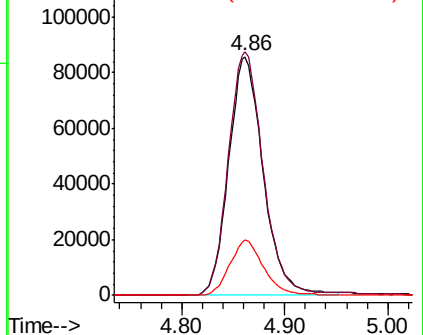
#35
 Dibromofluoromethane
 Concen: 50.608 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034321.D
 Acq: 06 Sep 2019 11:32

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.5	122.3
192	22.9	17.8	26.8

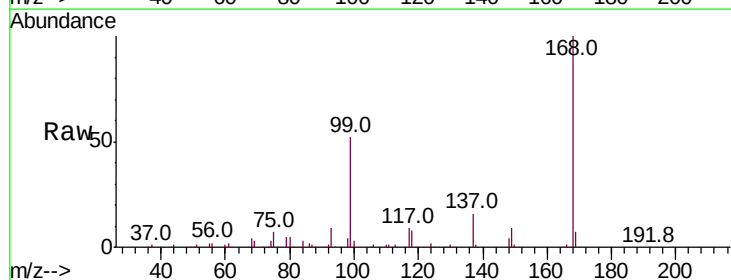


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

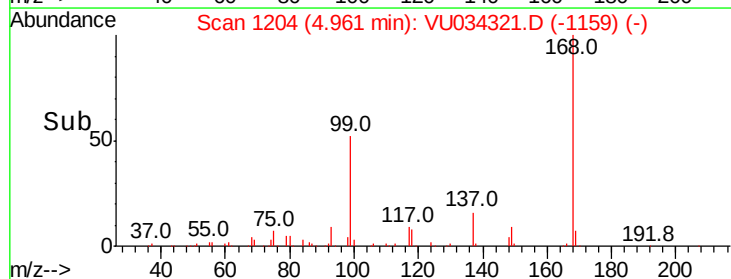
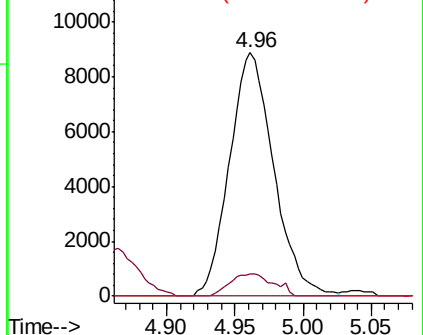


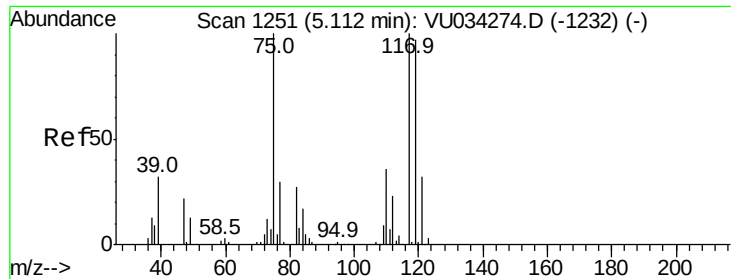
#36
 1,1-Dichloropropene
 Concen: 4.325 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034321.D
 Acq: 06 Sep 2019 11:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.3	54.9#
77	0.0	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.237 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034321.D

Acq: 06 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampled :

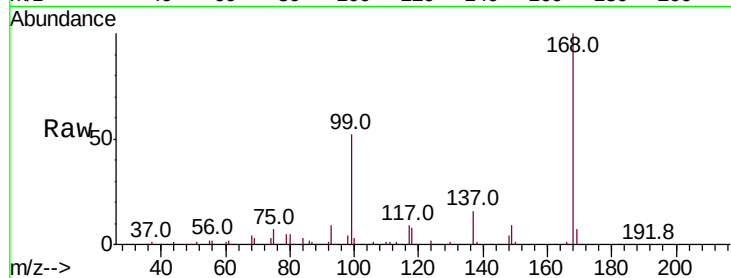
Tot Ion:117 Resp: 25812

Ion Ratio Lower Upper

117 100

119 5.5 77.8 116.6#

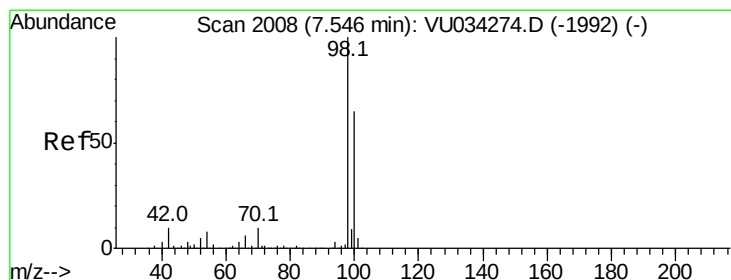
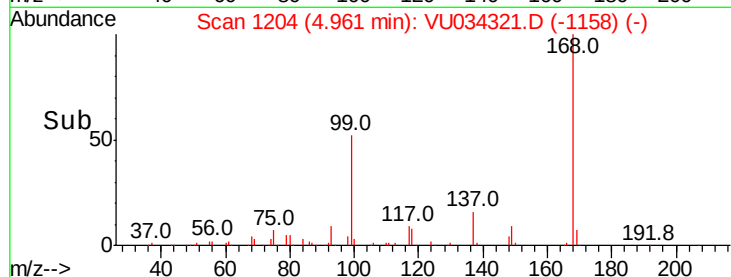
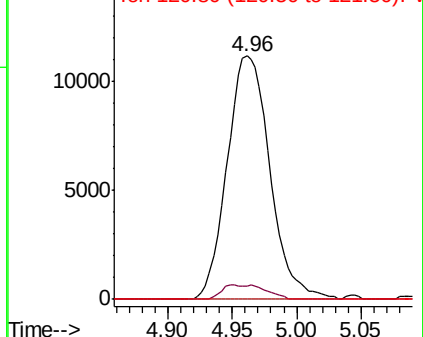
121 0.0 25.2 37.8#



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



#50

Toluene-d8

Concen: 50.225 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034321.D

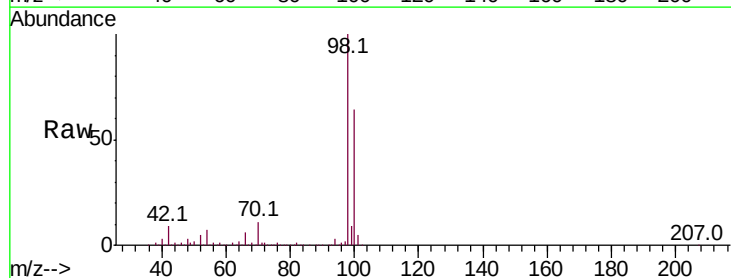
Acq: 06 Sep 2019 11:32

Tgt Ion: 98 Resp: 747307

Ion Ratio Lower Upper

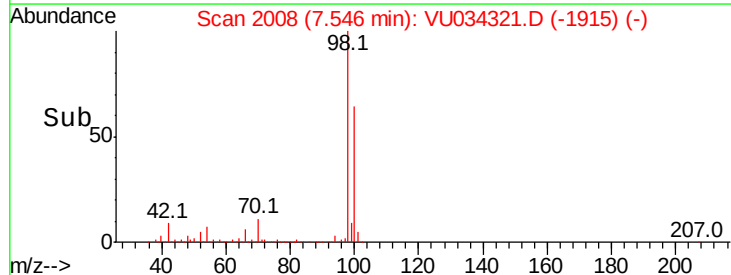
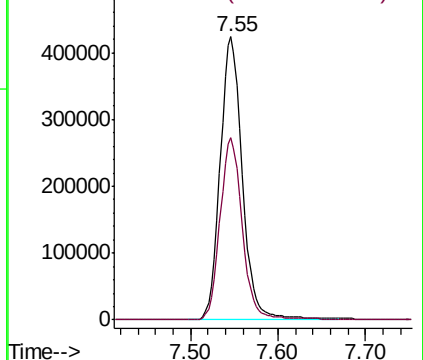
98 100

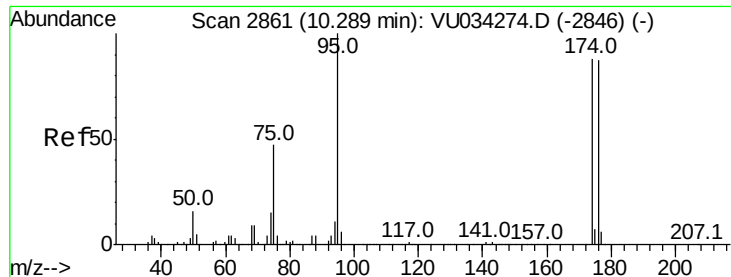
100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

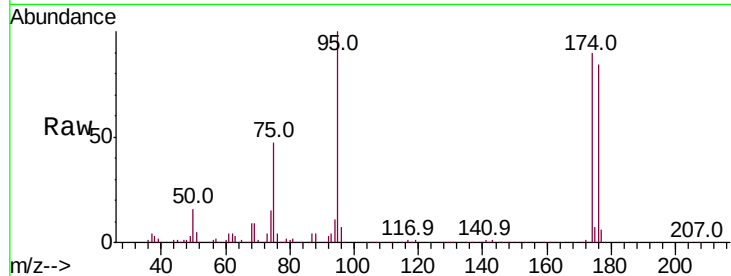




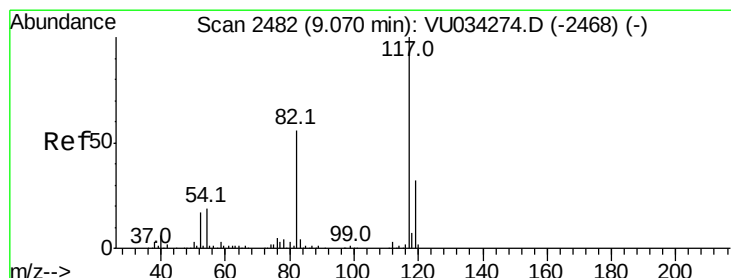
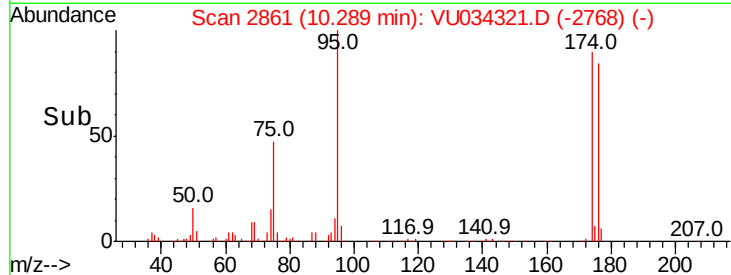
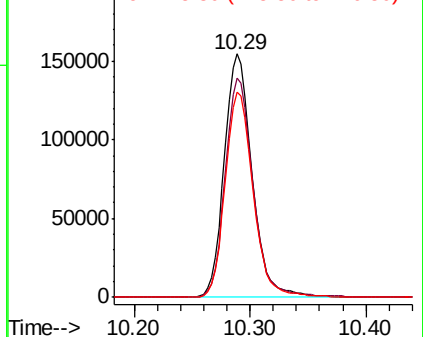
#62
4-Bromofluorobenzene
Concen: 44.454 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VU034321.D
Acq: 06 Sep 2019 11:32

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 95 Resp: 255377
Ion Ratio Lower Upper
95 100
174 90.3 0.0 175.2
176 85.3 0.0 168.0

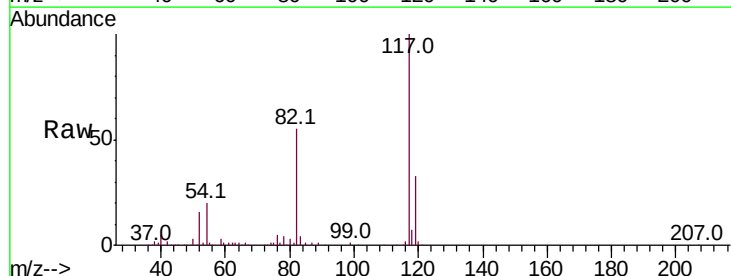


Abundance Ion 94.90 (94.60 to 95.60): VU034321.D (-2768) (-)
Ion 173.80 (173.50 to 174.50): VU034321.D (-2768) (-)
Ion 175.80 (175.50 to 176.50): VU034321.D (-2768) (-)

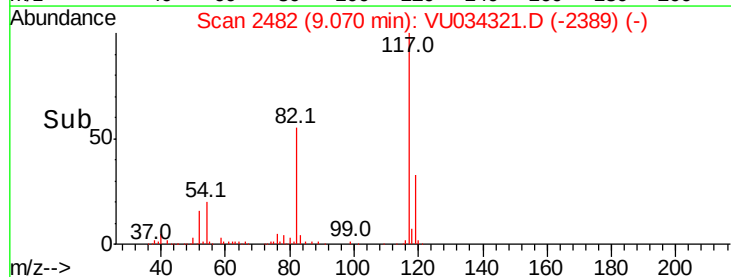
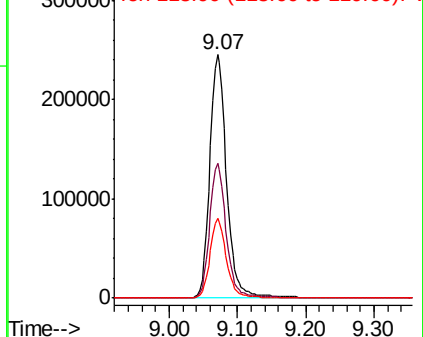


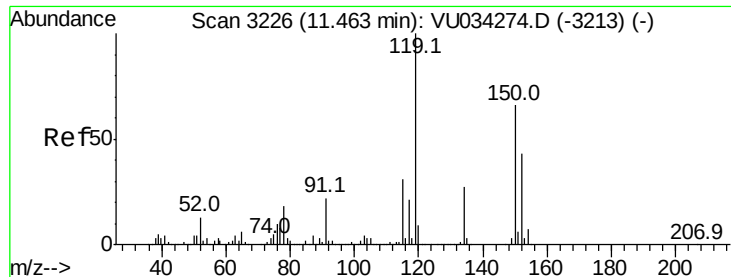
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034321.D
Acq: 06 Sep 2019 11:32

Tgt Ion: 117 Resp: 421438
Ion Ratio Lower Upper
117 100
82 55.4 44.6 67.0
119 32.5 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VU034321.D (-2389) (-)
Ion 82.00 (81.70 to 82.70): VU034321.D (-2389) (-)
Ion 118.90 (118.60 to 119.60): VU034321.D (-2389) (-)

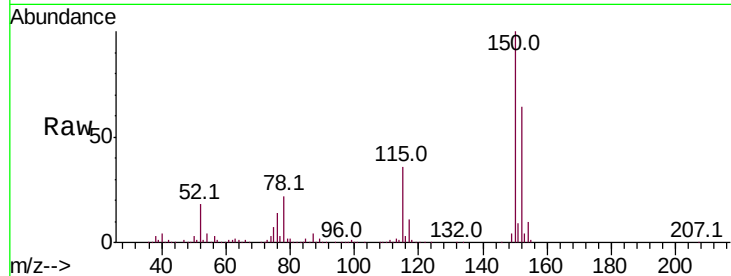




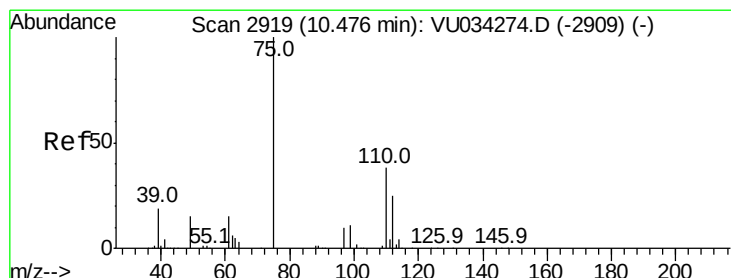
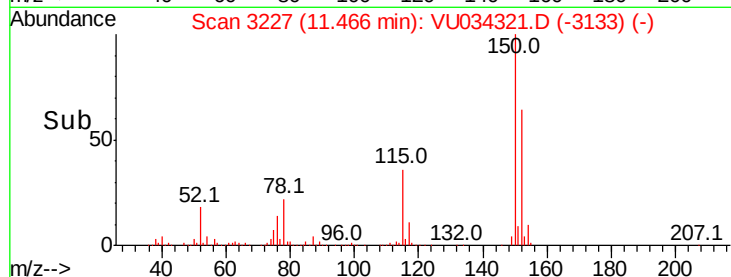
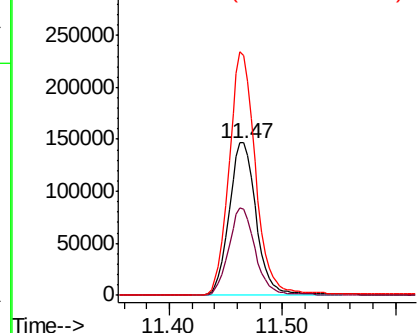
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.47 min Scan# 3227
 Delta R.T. 0.00 min
 Lab File: VU034321.D
 Acq: 06 Sep 2019 11:32

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:152 Resp: 246021
 Ion Ratio Lower Upper
 152 100
 115 56.4 39.1 117.3
 150 155.7 0.0 345.4

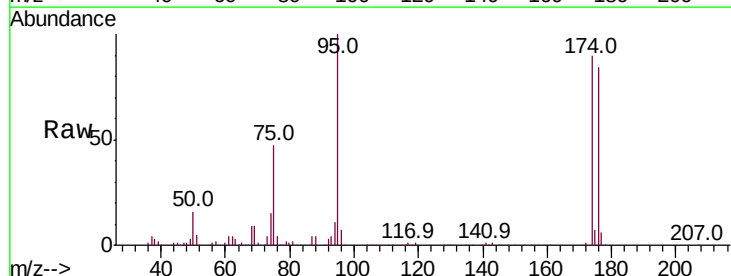


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

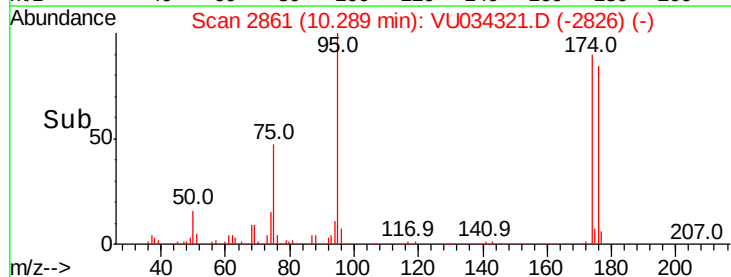
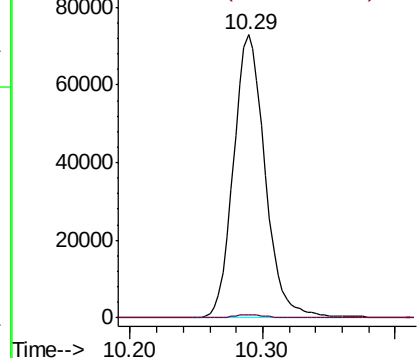


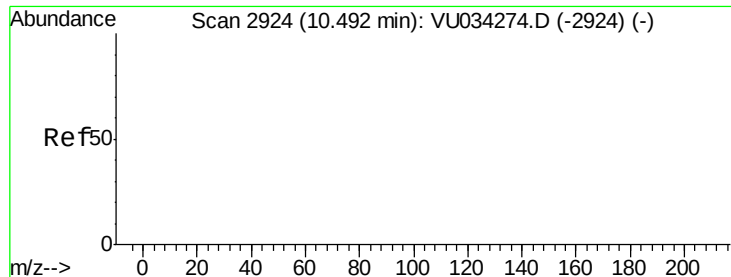
#76
 1,2,3-Trichloropropane
 Concen: 22.472 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034321.D
 Acq: 06 Sep 2019 11:32

Tgt Ion: 75 Resp: 120677
 Ion Ratio Lower Upper
 75 100
 77 1.2 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: 75.570 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU034321.D

Acq: 06 Sep 2019 11:32

Instrument :

MSVOA_U

ClientSampleId :

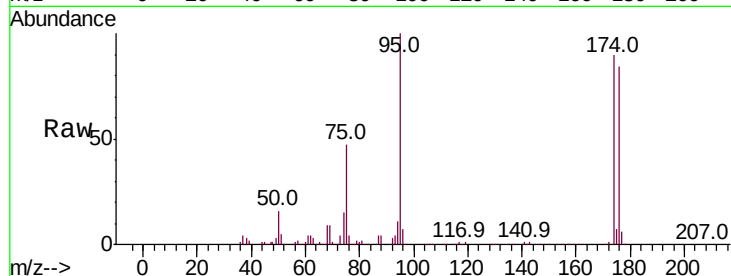
Tot Ion: 75 Resp: 120677

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

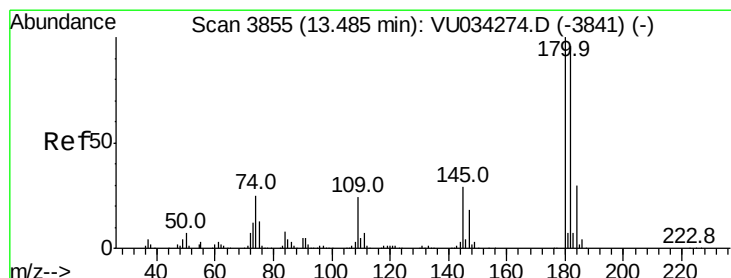
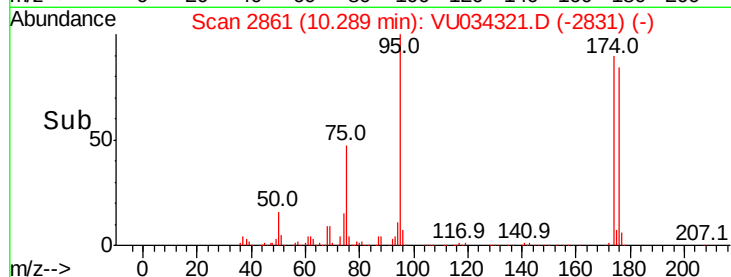
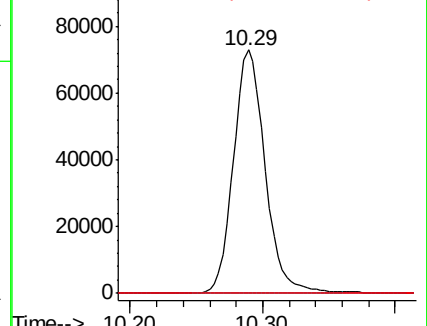
89 0.0 0.0 0.0



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: 3.524 ug/l

RT: 13.50 min Scan# 3861

Delta R.T. 0.02 min

Lab File: VU034321.D

Acq: 06 Sep 2019 11:32

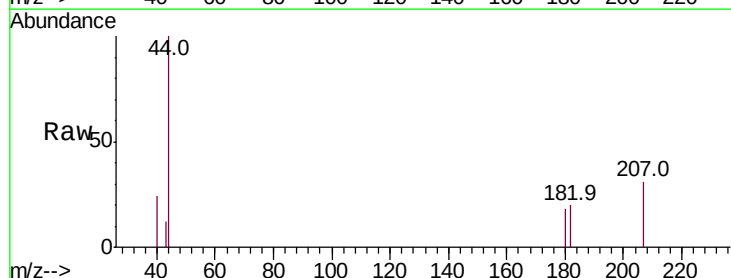
Tgt Ion:180 Resp: 450

Ion Ratio Lower Upper

180 100

182 84.2 47.9 143.8

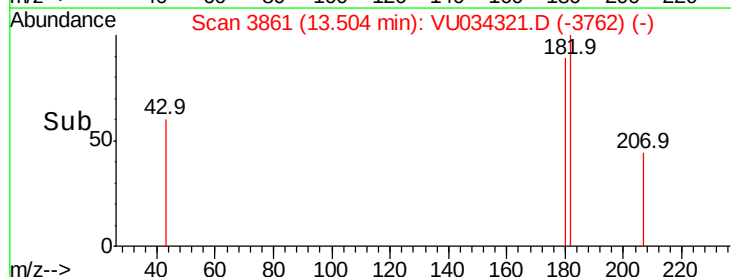
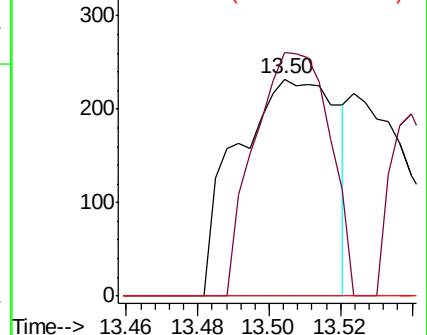
145 0.0 14.4 43.0#

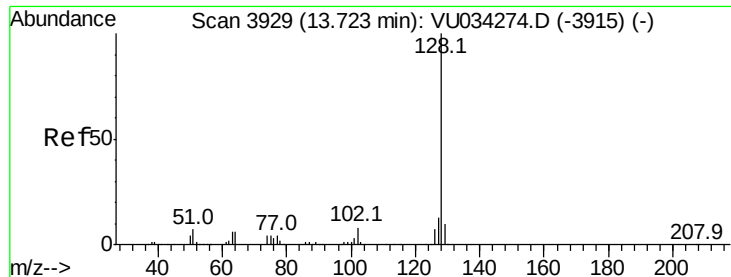


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

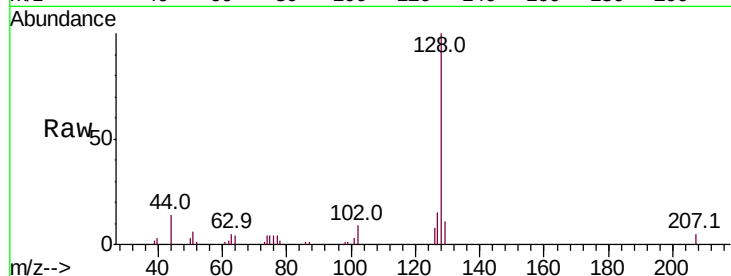




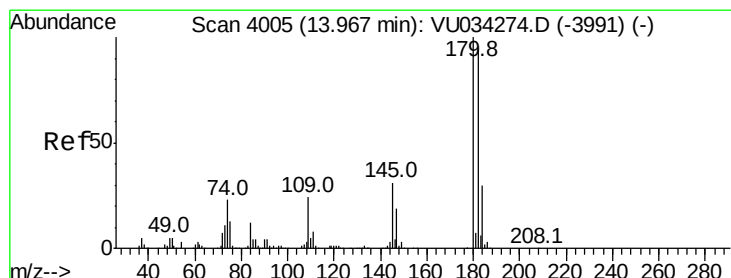
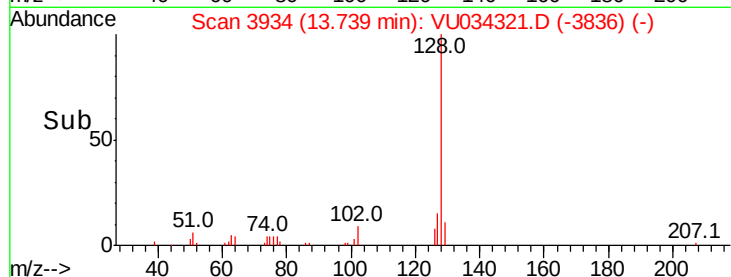
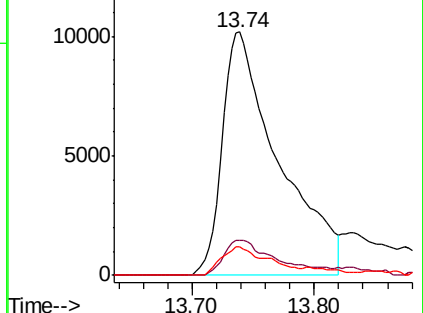
#95
Naphthalene
Concen: 5.804 ug/l
RT: 13.74 min Scan# 3934
Delta R.T. 0.02 min
Lab File: VU034321.D
Acq: 06 Sep 2019 11:32

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 32734
Ion Ratio Lower Upper
128 100
127 12.6 10.6 15.8
129 9.7 8.4 12.6

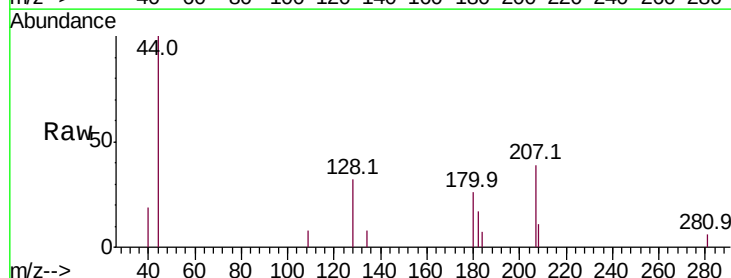


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.762 ug/l
RT: 13.98 min Scan# 4009
Delta R.T. 0.01 min
Lab File: VU034321.D
Acq: 06 Sep 2019 11:32

Tgt Ion:180 Resp: 732
Ion Ratio Lower Upper
180 100
182 0.0 48.4 145.0#
145 0.0 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

