

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034156.D
 Acq On : 01 Sep 2019 05:15
 Operator : JC/SP
 Sample : K4526-40
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-L-(0)

Quant Time: Sep 01 06:03:31 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	432701	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	703162	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	707028	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	349978	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	276587	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
35) Dibromofluoromethane	4.86	113	230401	47.24	ug/l	0.00
Spiked Amount			Recovery	=	94.48%	
50) Toluene-d8	7.55	98	913642	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
62) 4-Bromofluorobenzene	10.29	95	324443	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	

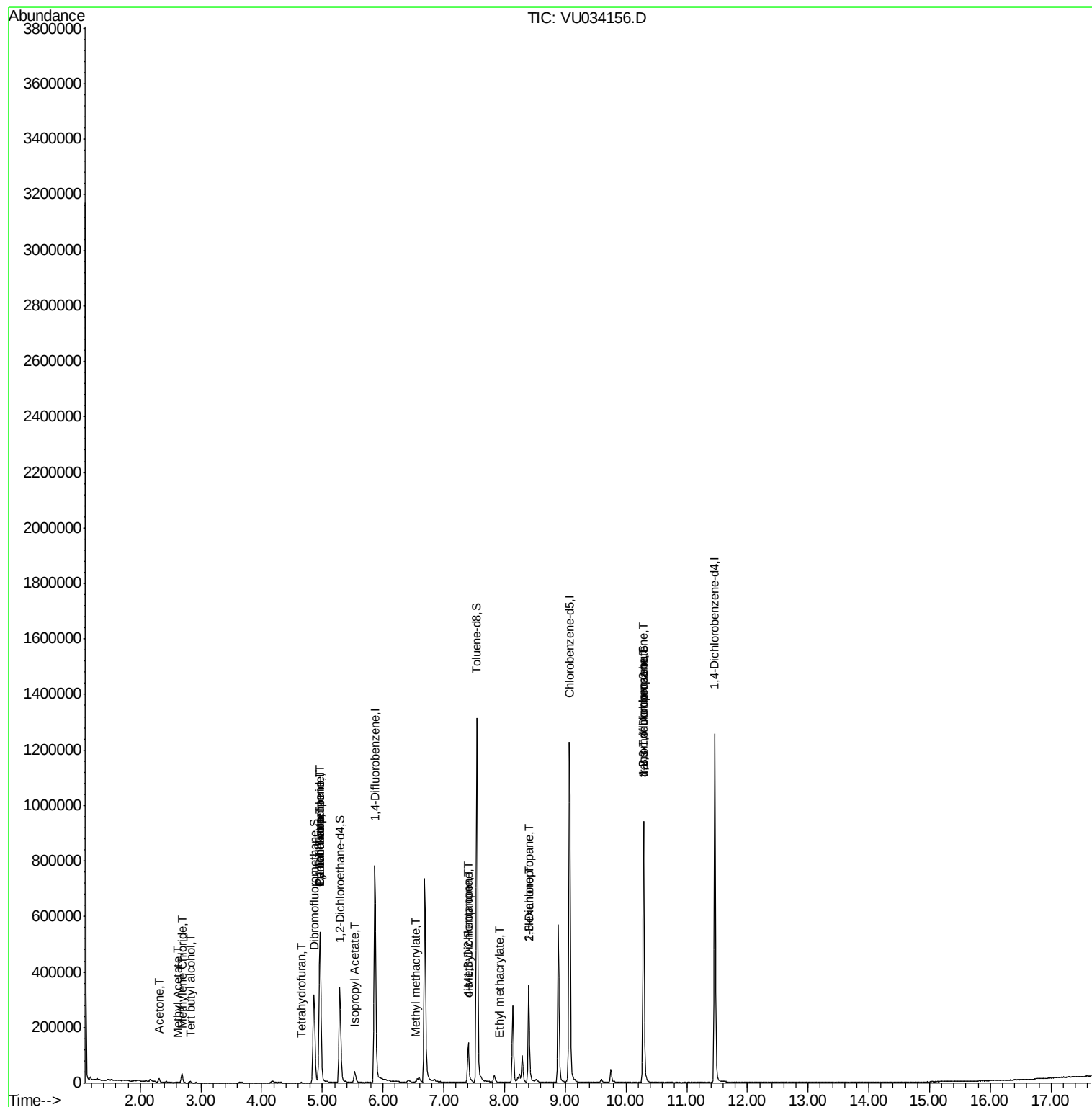
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	464	Below Cal	#	78
5) Bromomethane	1.57	94	19	Below Cal	#	2
11) Tert butyl alcohol	2.82	59	2616	2.046	ug/l #	73
16) Acetone	2.31	43	17276	6.107	ug/l	96
18) Methyl Acetate	2.61	43	3614	0.494	ug/l #	79
20) Methylene Chloride	2.69	84	15549	2.903	ug/l	97
29) Tetrahydrofuran	4.65	42	639	0.263	ug/l #	40
31) Cyclohexane	4.96	56	8205	0.991	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31541	4.742	ug/l #	49
38) Carbon Tetrachloride	4.96	117	39740	6.190	ug/l #	16
43) Isopropyl Acetate	5.53	43	49149	4.338	ug/l	99
48) Methyl methacrylate	6.53	41	4754	0.869	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	51977	6.642	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	26375	3.116	ug/l #	65
56) Ethyl methacrylate	7.92	69	361	1.012	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	3486	0.392	ug/l #	42
59) 2-Hexanone	8.40	43	48214	8.162	ug/l #	54
76) 1,2,3-Trichloropropane	10.29	75	154888	19.636	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	154888	66.120	ug/l #	100

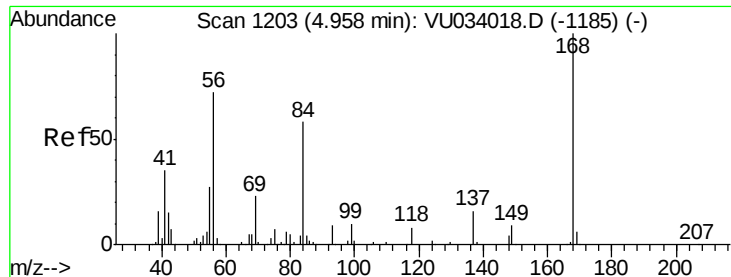
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :

MSVOA_U

ClientSampleId :

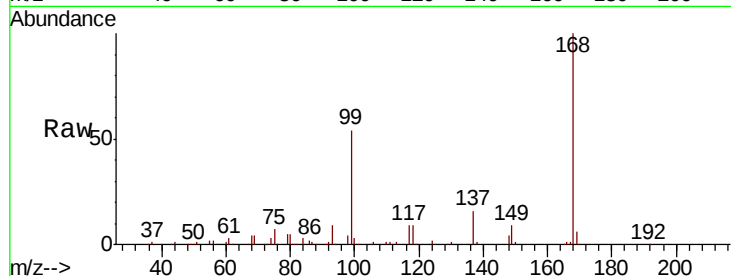
T9-12-13-L-(0)

Tgt Ion:168 Resp: 432701

Ion Ratio Lower Upper

168 100

99 54.2 42.3 63.5



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

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

4.96

200000

150000

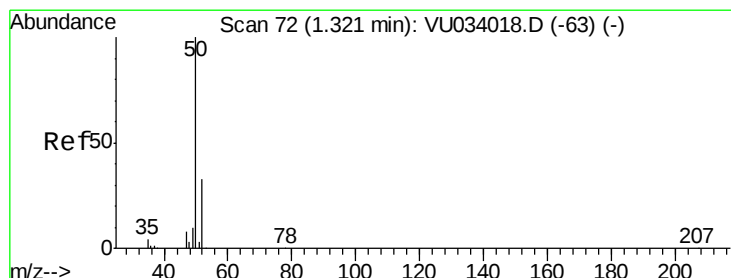
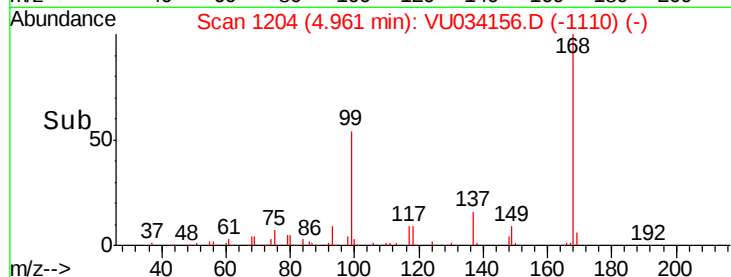
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034156.D

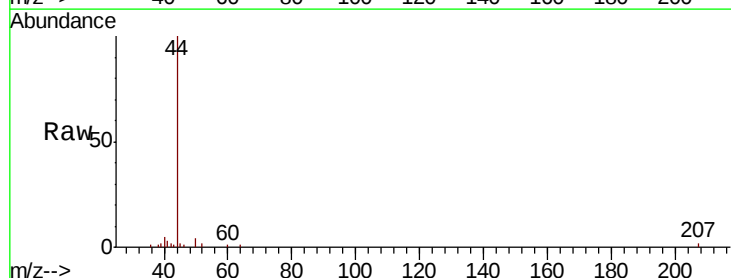
Acq: 01 Sep 2019 05:15

Tgt Ion: 50 Resp: 464

Ion Ratio Lower Upper

50 100

52 45.3 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

400

300

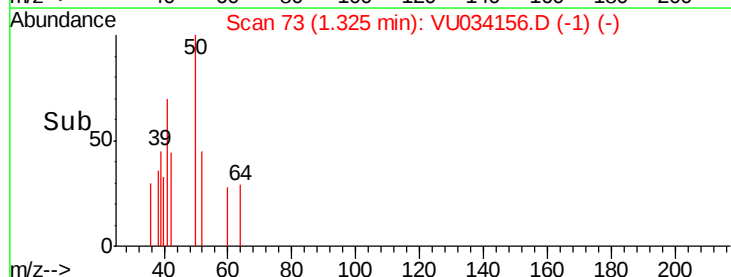
200

100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.57 min Scan# 149

Delta R.T. -0.03 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :

MSVOA_U

ClientSampleId :

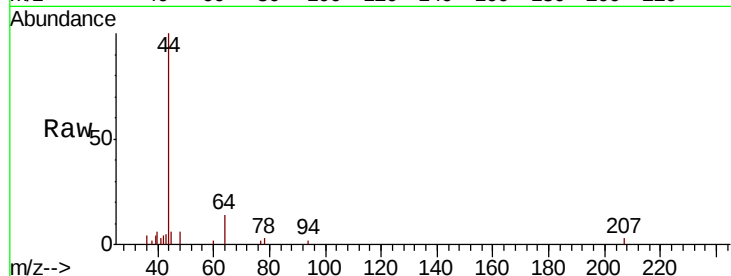
T9-12-13-L-(0)

Tgt Ion: 94 Resp: 19

Ion Ratio Lower Upper

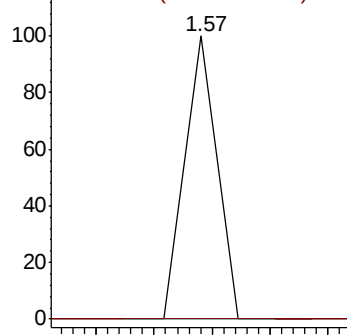
94 100

96 0.0 76.3 114.5#

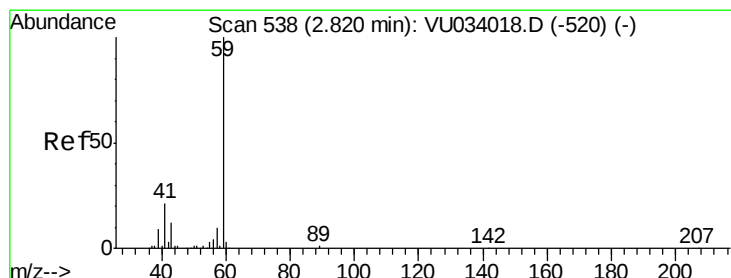
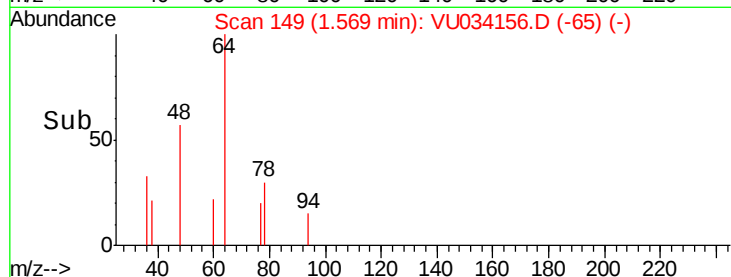


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#11

Tert butyl alcohol

Concen: 2.046 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034156.D

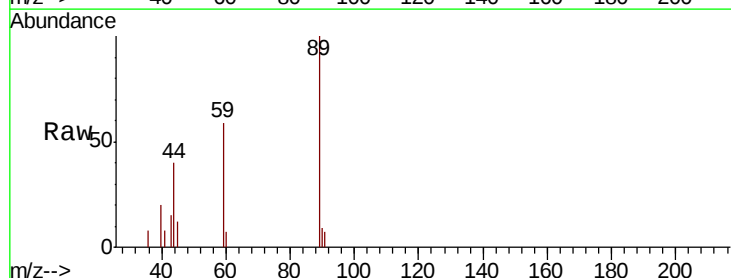
Acq: 01 Sep 2019 05:15

Tgt Ion: 59 Resp: 2616

Ion Ratio Lower Upper

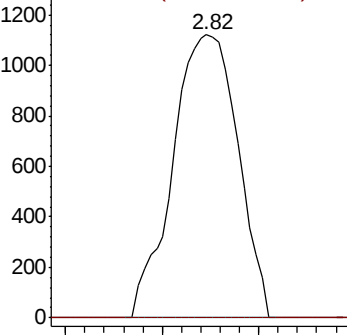
59 100

57 0.0 8.0 12.0#

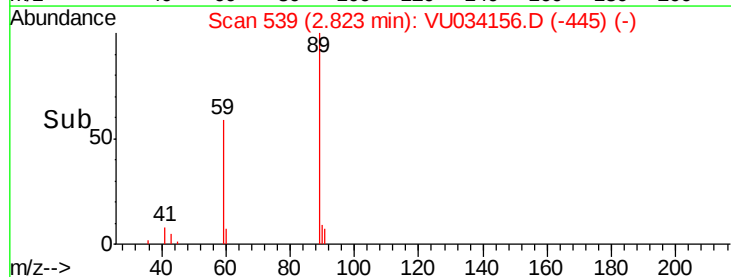


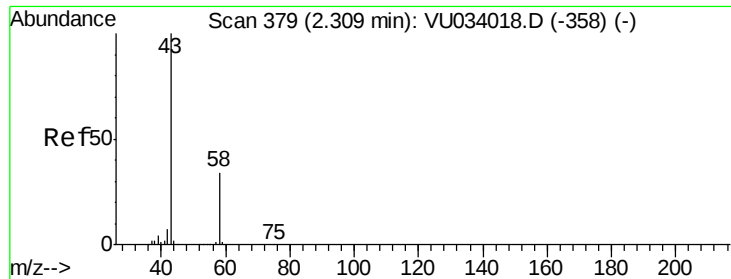
Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->





#16

Acetone

Concen: 6.107 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :

MSVOA_U

ClientSampleId :

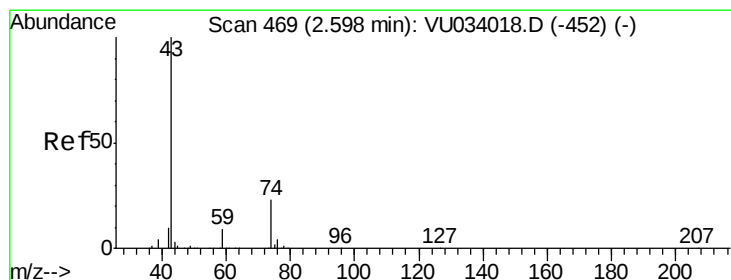
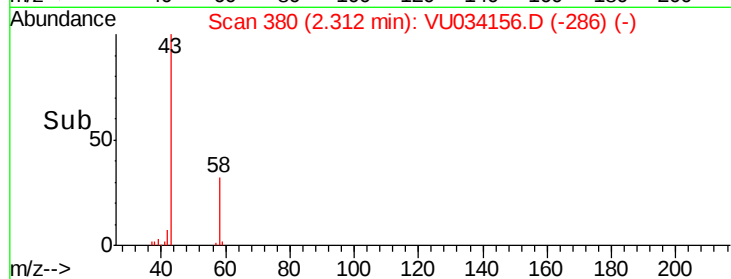
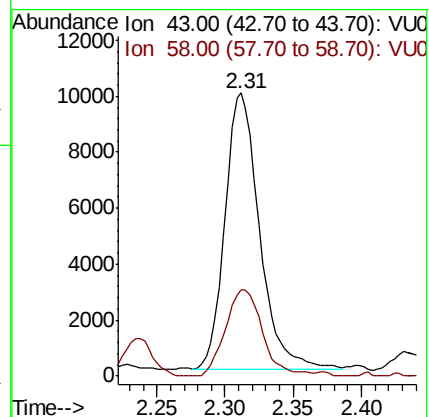
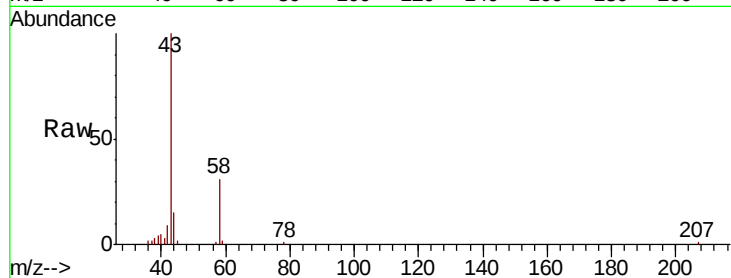
T9-12-13-L-(0)

Tgt Ion: 43 Resp: 17276

Ion Ratio Lower Upper

43 100

58 31.5 26.8 40.2



#18

Methyl Acetate

Concen: 0.494 ug/l

RT: 2.61 min Scan# 474

Delta R.T. 0.02 min

Lab File: VU034156.D

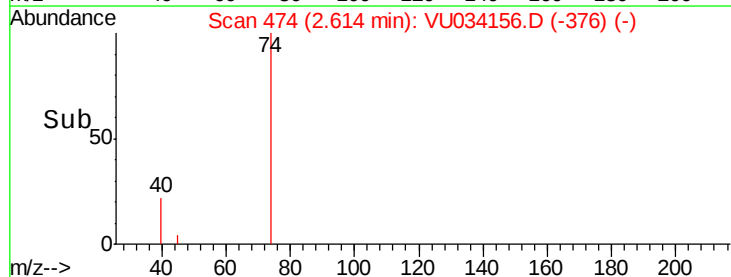
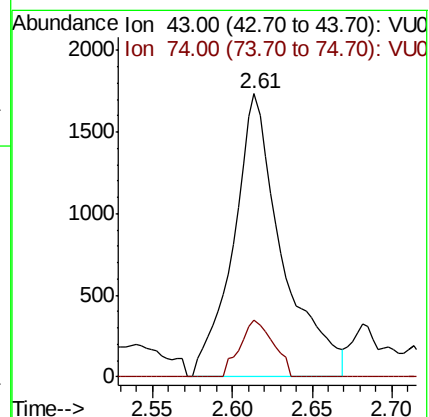
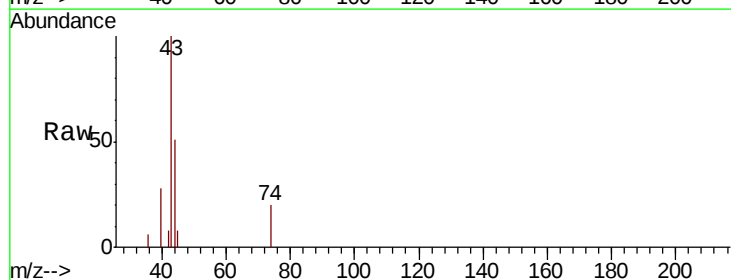
Acq: 01 Sep 2019 05:15

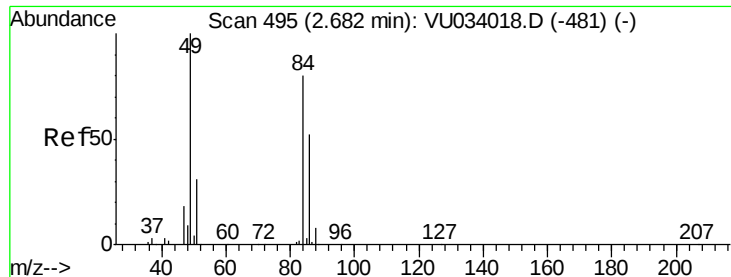
Tgt Ion: 43 Resp: 3614

Ion Ratio Lower Upper

43 100

74 13.7 19.2 28.8#

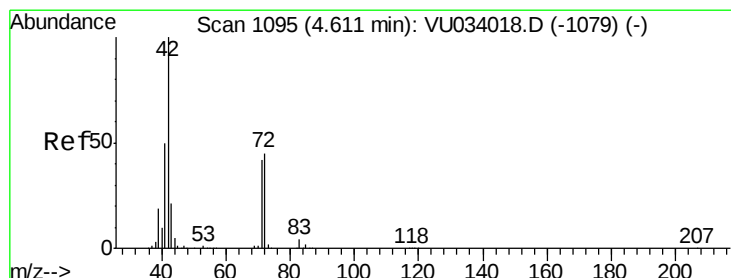
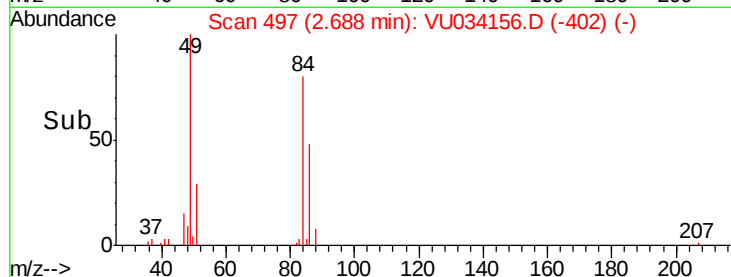
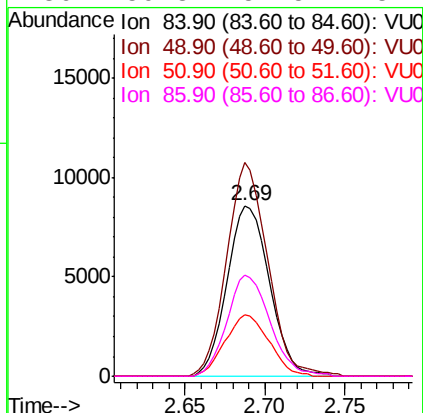
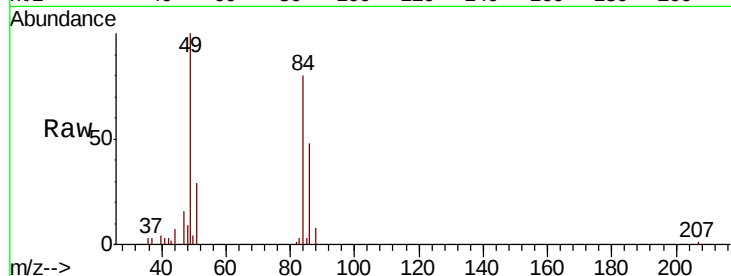




#20
Methylene Chloride
Concen: 2.903 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034156.D
Acq: 01 Sep 2019 05:15

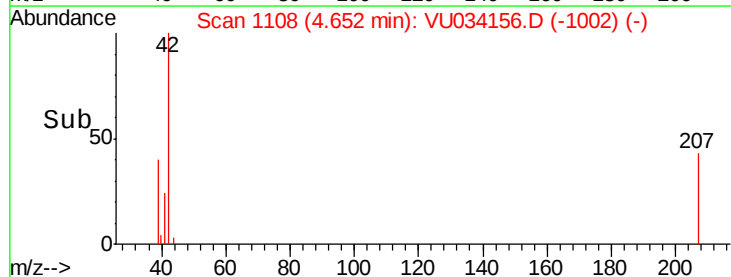
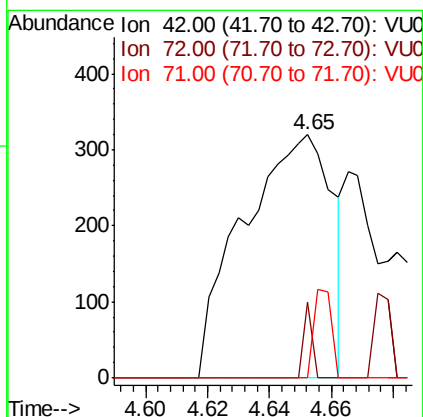
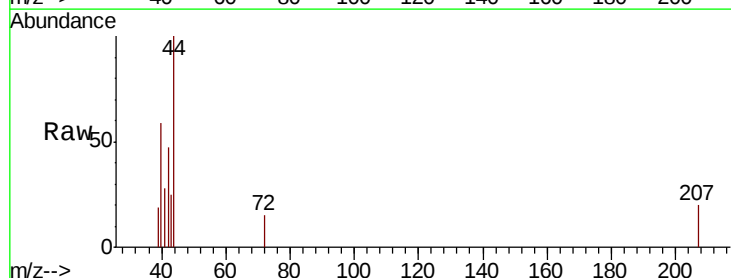
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-L-(0)

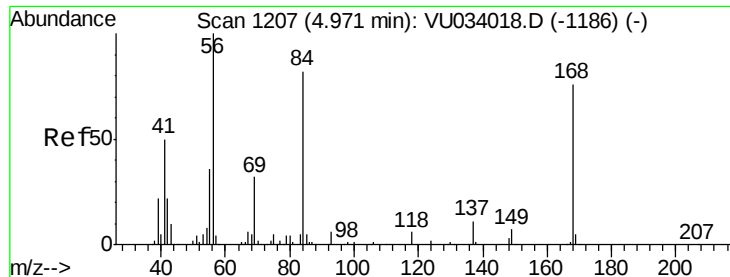
Tgt Ion:	84	Resp:	15549
Ion	Ratio	Lower	Upper
84	100		
49	125.5	100.2	150.4
51	36.3	30.8	46.2
86	59.8	52.5	78.7



#29
Tetrahydrofuran
Concen: 0.263 ug/l
RT: 4.65 min Scan# 1108
Delta R.T. 0.04 min
Lab File: VU034156.D
Acq: 01 Sep 2019 05:15

Tgt Ion:	42	Resp:	639
Ion	Ratio	Lower	Upper
42	100		
72	3.0	35.8	53.6#
71	6.9	34.0	51.0#





#31

Cyclohexane

Concen: 0.991 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. -0.01 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-L-(0)

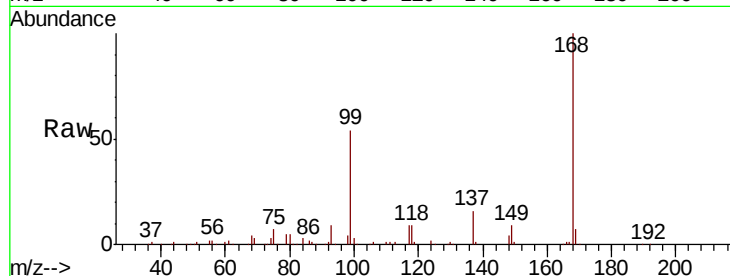
Tgt Ion: 56 Resp: 8205

Ion Ratio Lower Upper

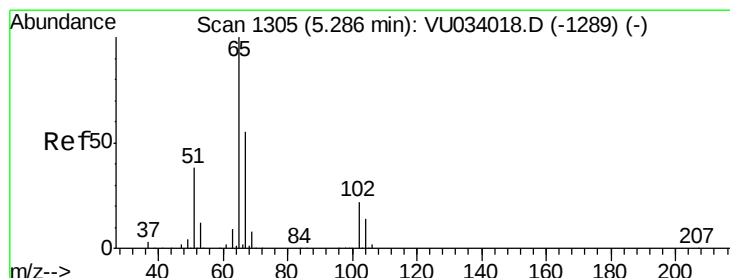
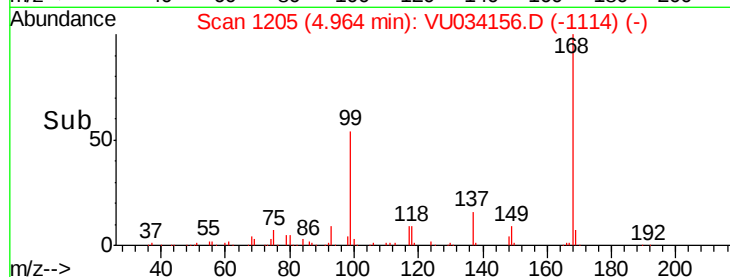
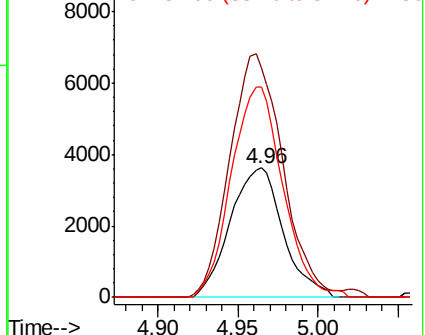
56 100

69 177.7 25.4 38.0#

84 162.6 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: 49.886 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034156.D

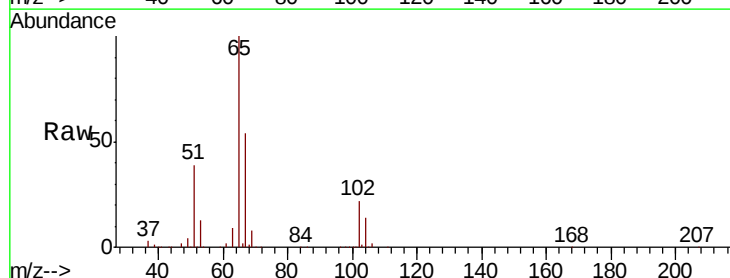
Acq: 01 Sep 2019 05:15

Tgt Ion: 65 Resp: 276587

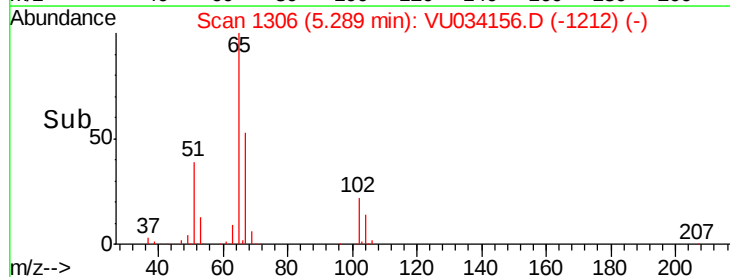
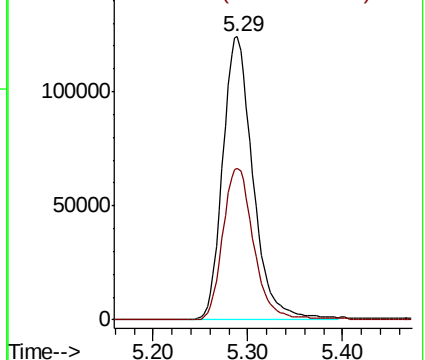
Ion Ratio Lower Upper

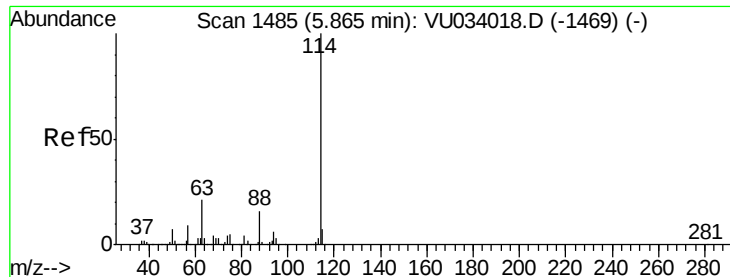
65 100

67 55.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.87 min Scan# 1486

Delta R.T. 0.00 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :

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ClientSampleId :

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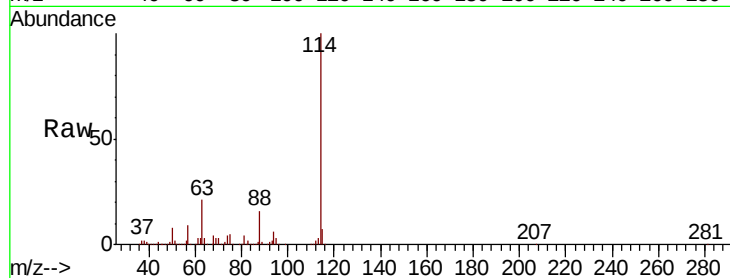
Tgt Ion:114 Resp: 703162

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.0

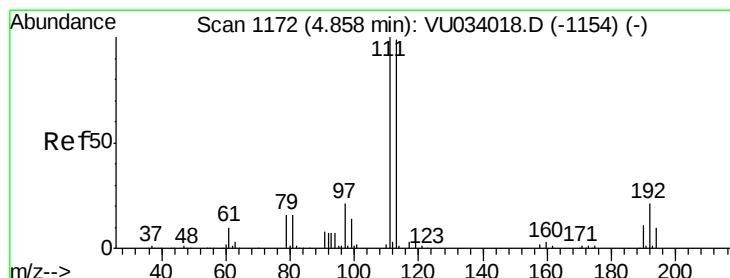
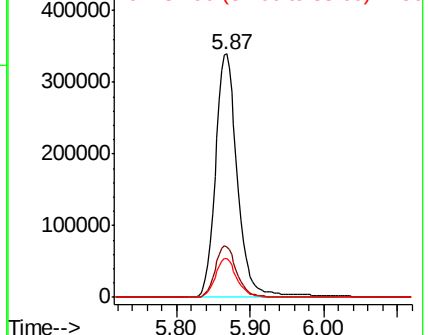
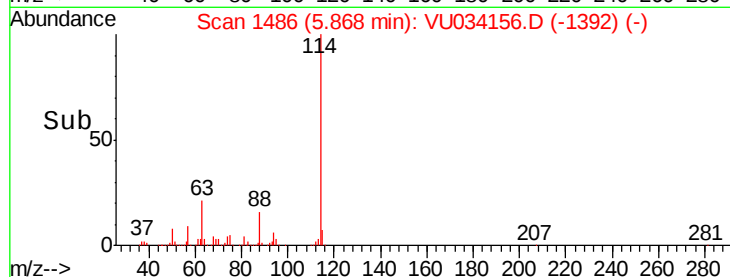
88 15.8 0.0 32.0



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: 47.242 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

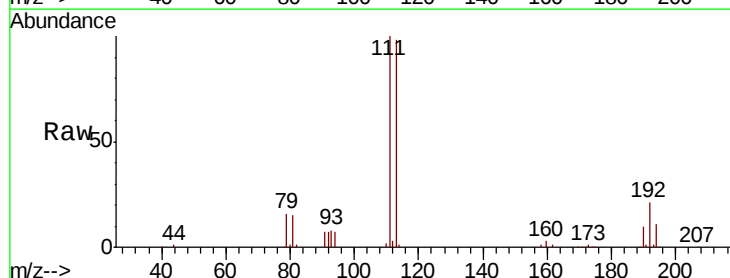
Tgt Ion:113 Resp: 230401

Ion Ratio Lower Upper

113 100

111 101.9 81.7 122.5

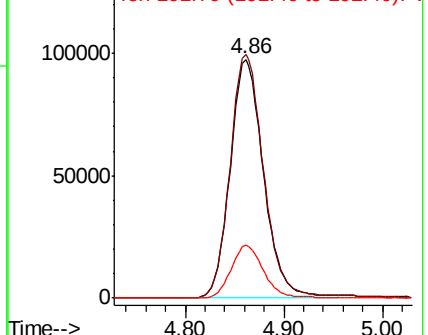
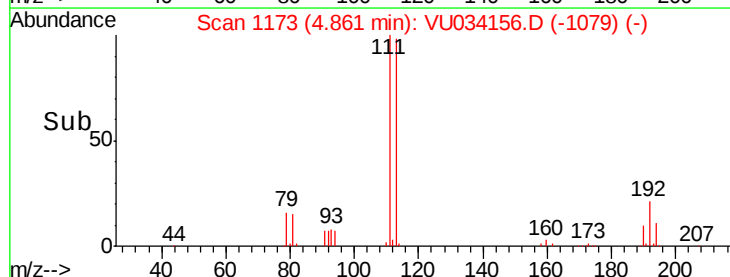
192 21.4 17.1 25.7

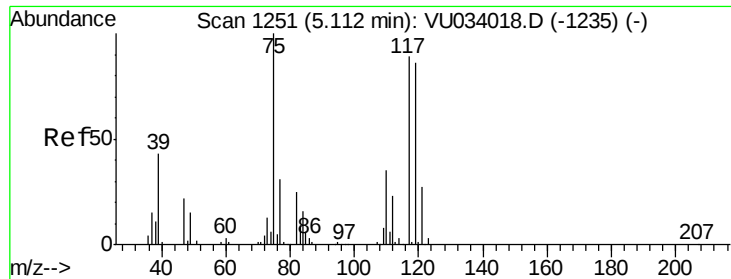


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

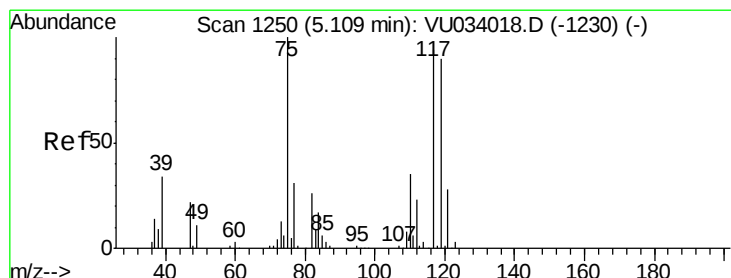
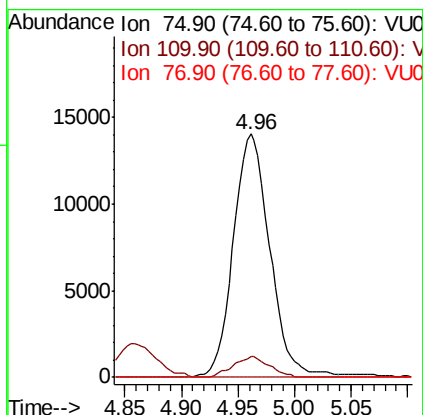
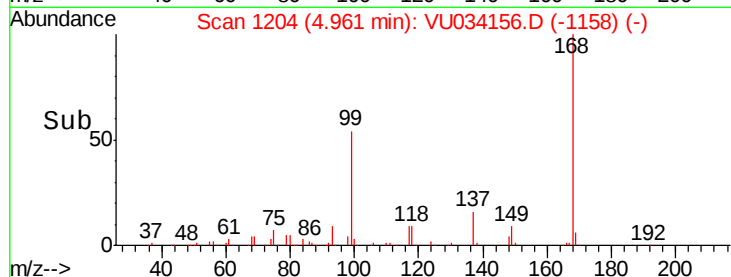
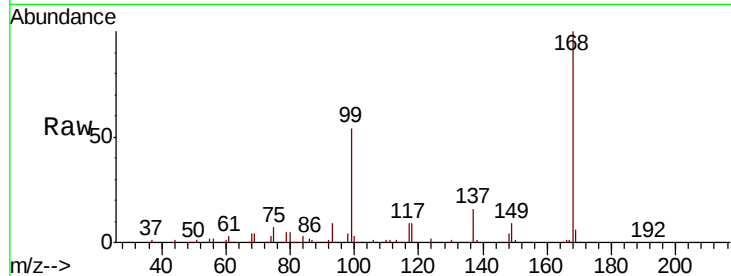




#36
 1,1-Dichloropropene
 Concen: 4.742 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034156.D
 Acq: 01 Sep 2019 05:15

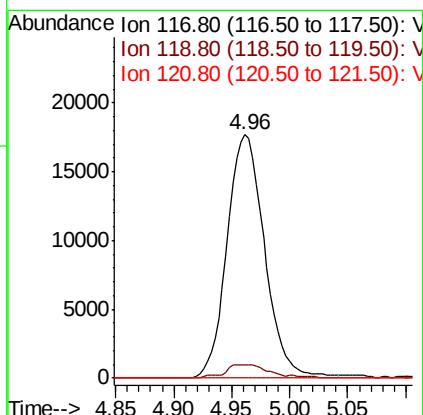
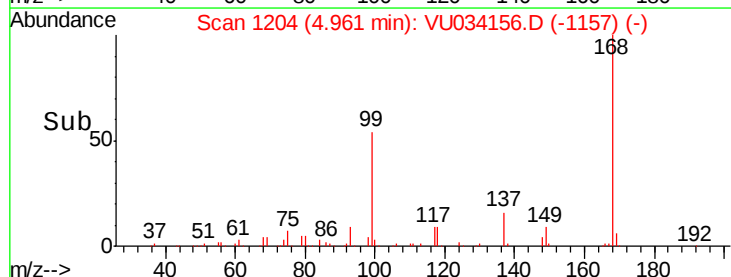
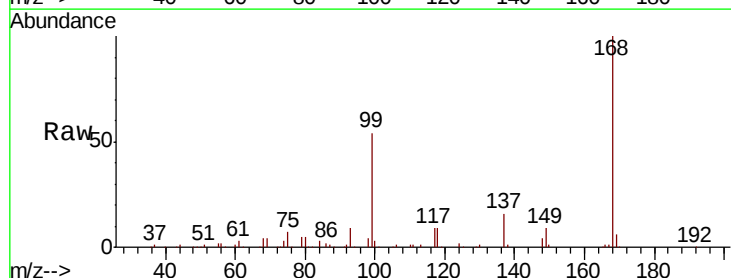
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-L-(0)

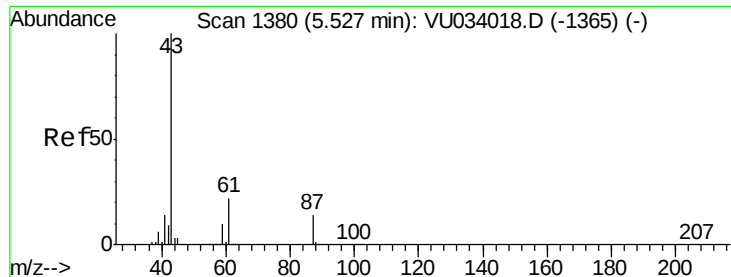
Tgt Ion: 75 Resp: 31541
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.8 53.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.190 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034156.D
 Acq: 01 Sep 2019 05:15

Tgt Ion: 117 Resp: 39740
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.0 115.4#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 4.338 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-L-(0)

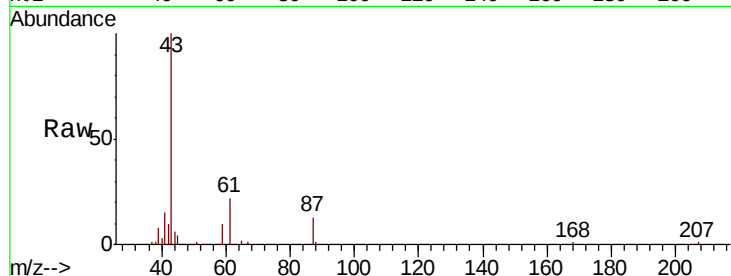
Tgt Ion: 43 Resp: 49149

Ion Ratio Lower Upper

43 100

61 22.0 17.2 25.8

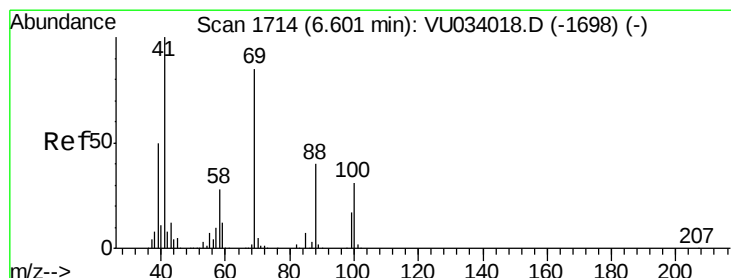
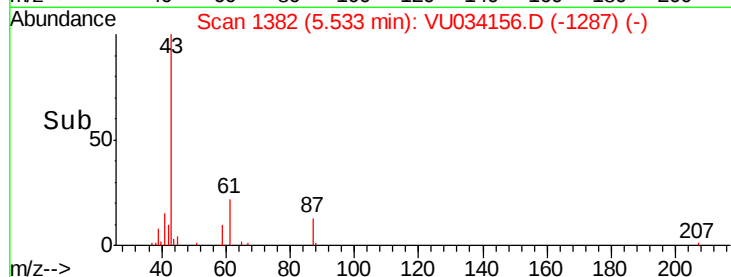
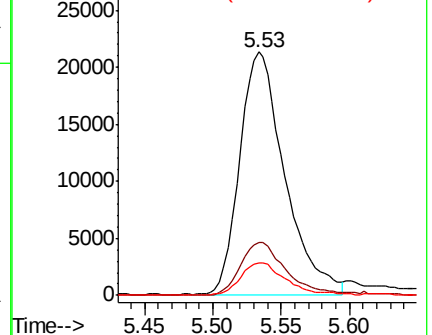
87 13.5 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034156.D (-1287) (-)

Ion 61.00 (60.70 to 61.70): VU034156.D (-1287) (-)

Ion 87.00 (86.70 to 87.70): VU034156.D (-1287) (-)



#48

Methyl methacrylate

Concen: 0.869 ug/l

RT: 6.53 min Scan# 1693

Delta R.T. -0.07 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

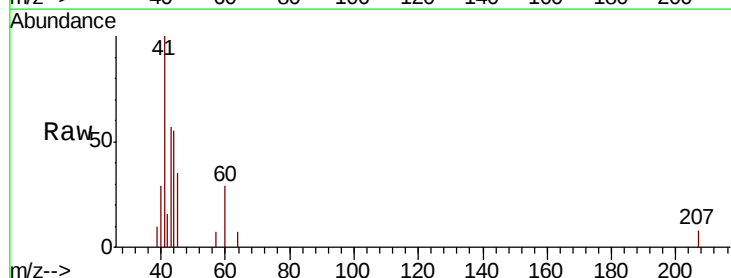
Tgt Ion: 41 Resp: 4754

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

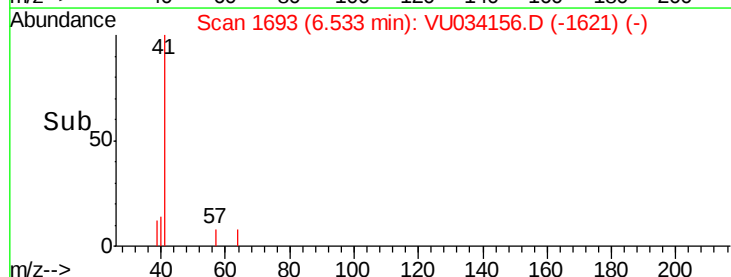
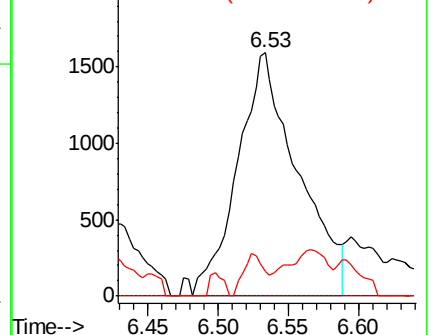
39 0.0 40.3 60.5#

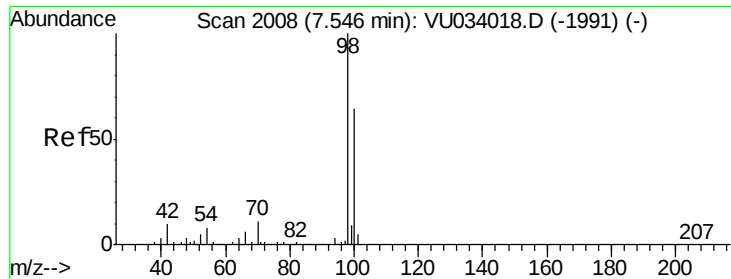


Abundance Ion 41.00 (40.70 to 41.70): VU034156.D (-1621) (-)

Ion 69.00 (68.70 to 69.70): VU034156.D (-1621) (-)

Ion 39.00 (38.70 to 39.70): VU034156.D (-1621) (-)





#50

Toluene-d8

Concen: 50.031 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. -0.00 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :

MSVOA_U

ClientSampleId :

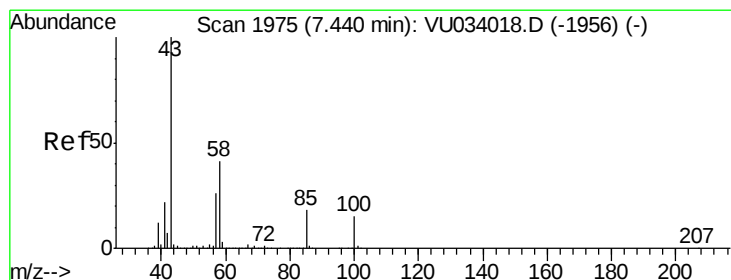
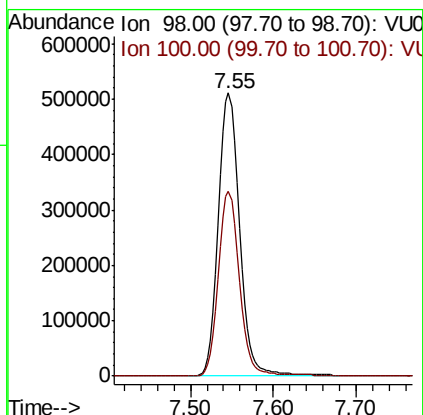
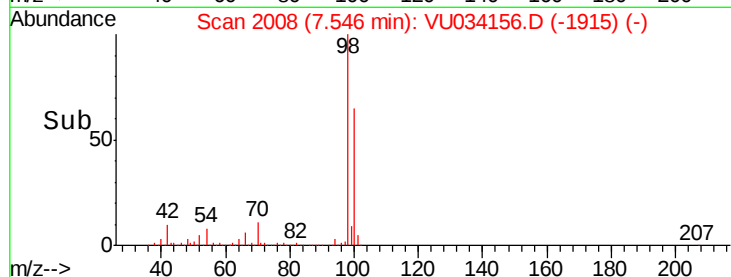
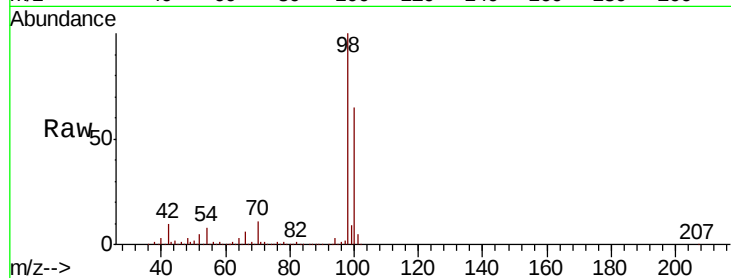
T9-12-13-L-(0)

Tgt Ion: 98 Resp: 913642

Ion Ratio Lower Upper

98 100

100 64.5 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 6.642 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034156.D

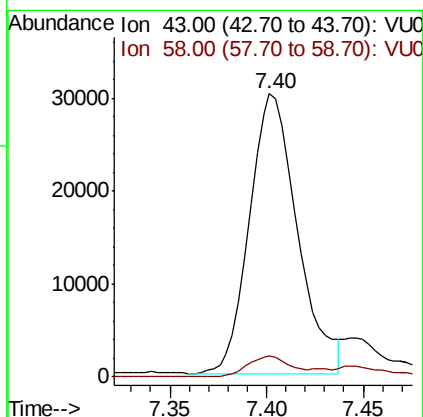
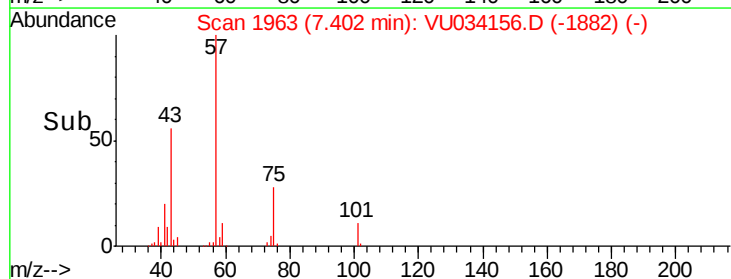
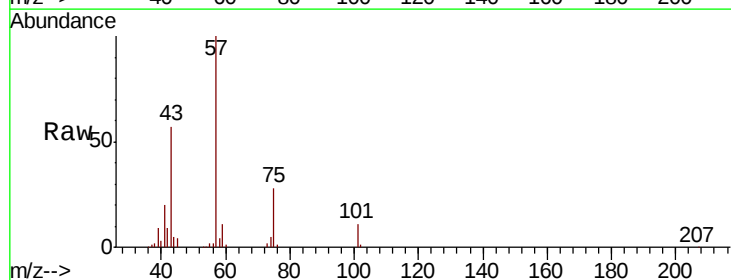
Acq: 01 Sep 2019 05:15

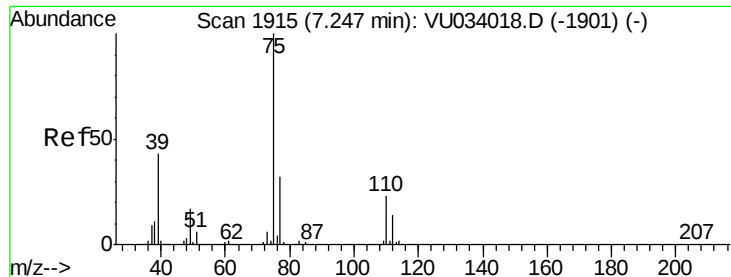
Tgt Ion: 43 Resp: 51977

Ion Ratio Lower Upper

43 100

58 6.7 32.2 48.4#



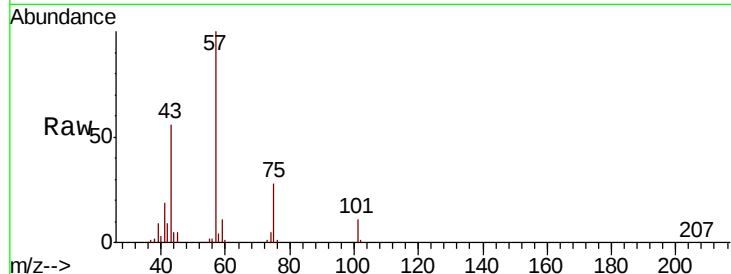


#54

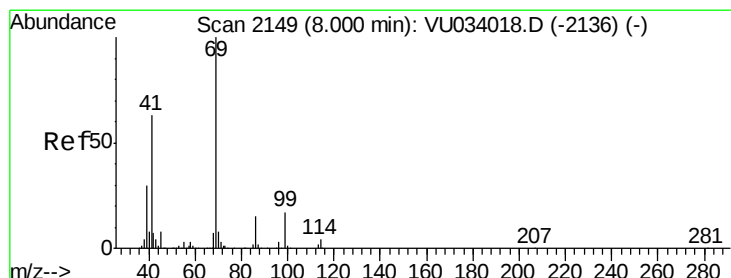
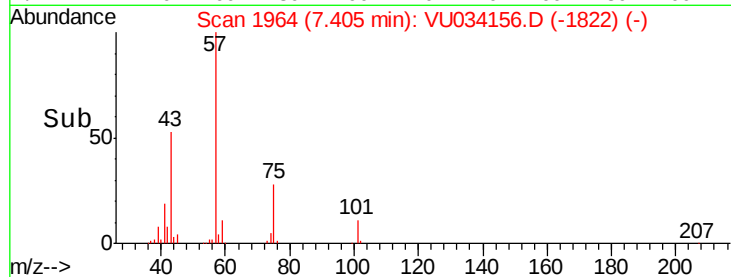
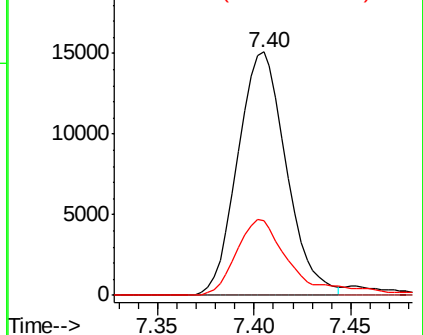
cis-1,3-Dichloropropene
Concen: 3.116 ug/l
RT: 7.40 min Scan# 1964
Delta R.T. 0.16 min
Lab File: VU034156.D
Acq: 01 Sep 2019 05:15

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-L-(0)

Tgt Ion: 75 Resp: 26375
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 30.8 34.6 51.8#



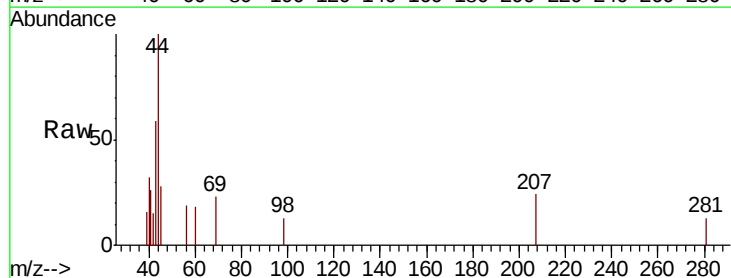
Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 76.90 (76.60 to 77.60): VU0
Ion 39.00 (38.70 to 39.70): VU0



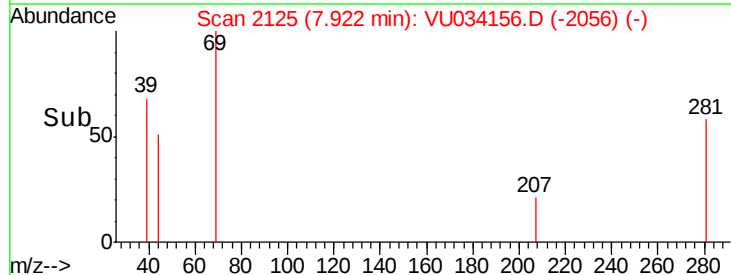
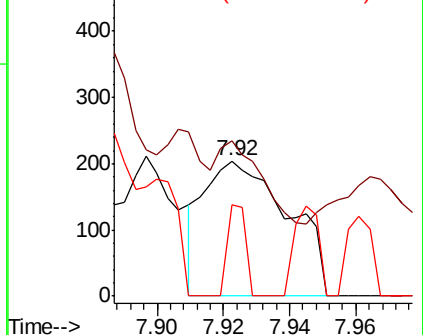
#56

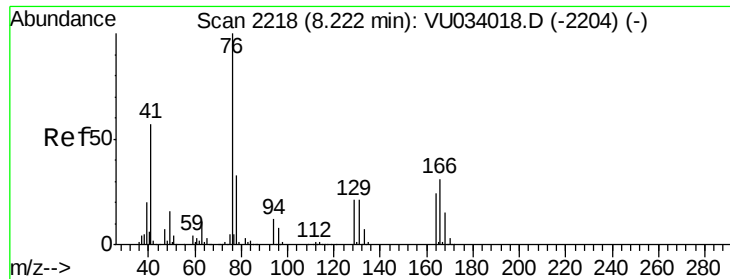
Ethyl methacrylate
Concen: 1.012 ug/l
RT: 7.92 min Scan# 2125
Delta R.T. -0.08 min
Lab File: VU034156.D
Acq: 01 Sep 2019 05:15

Tgt Ion: 69 Resp: 361
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): VU0
Ion 41.00 (40.70 to 41.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

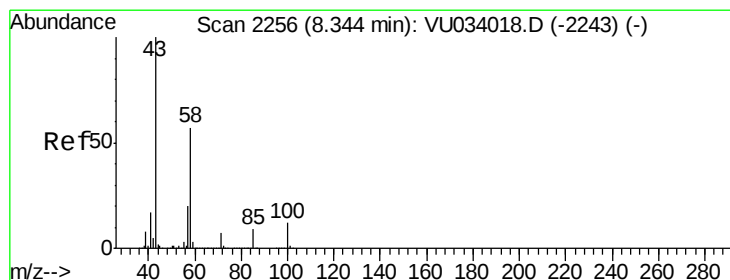
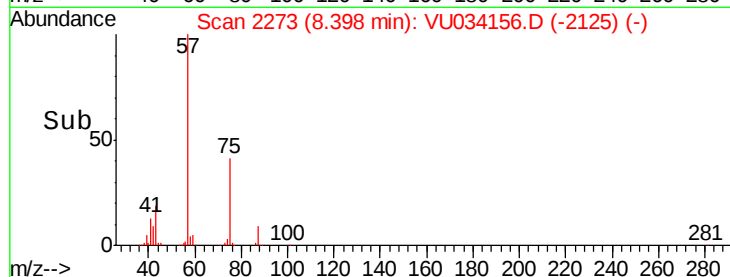
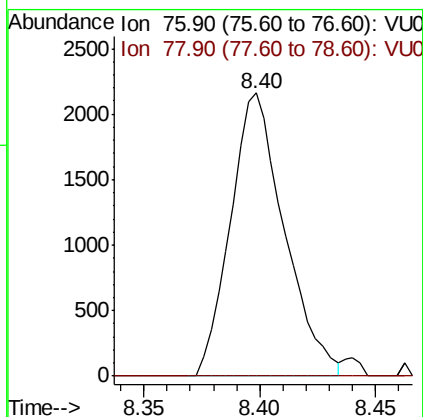
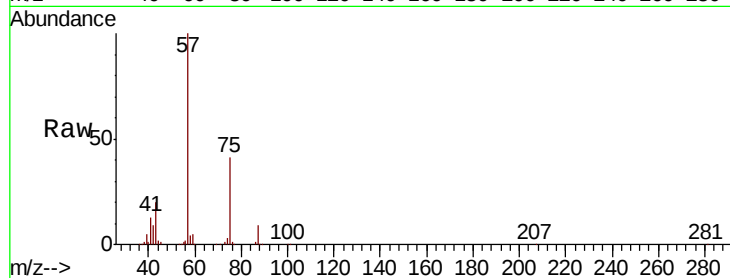




#57
 1,3-Dichloropropane
 Concen: 0.392 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.18 min
 Lab File: VU034156.D
 Acq: 01 Sep 2019 05:15

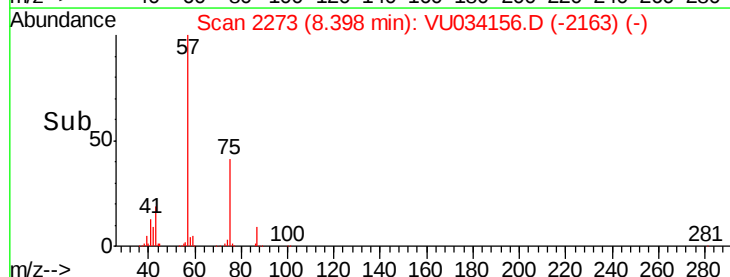
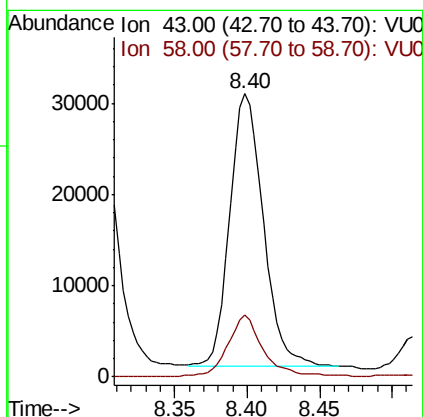
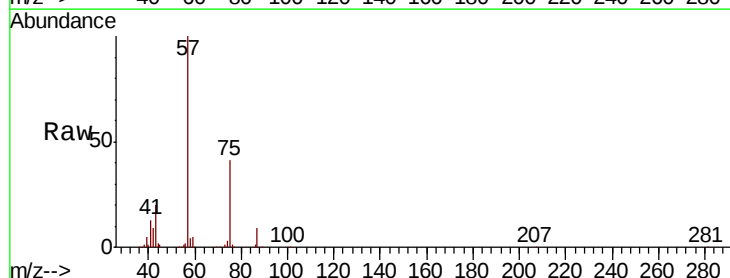
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-L-(0)

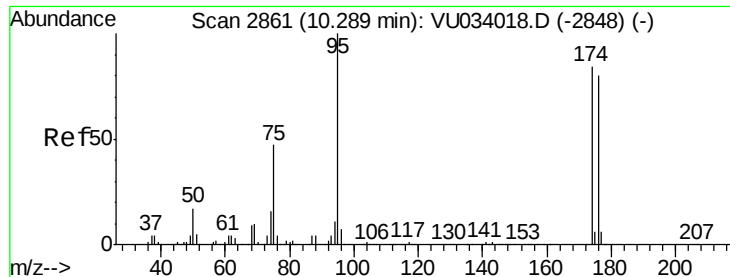
Tgt Ion: 76 Resp: 3486
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#



#59
 2-Hexanone
 Concen: 8.162 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034156.D
 Acq: 01 Sep 2019 05:15

Tgt Ion: 43 Resp: 48214
 Ion Ratio Lower Upper
 43 100
 58 23.3 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 45.673 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-L-(0)

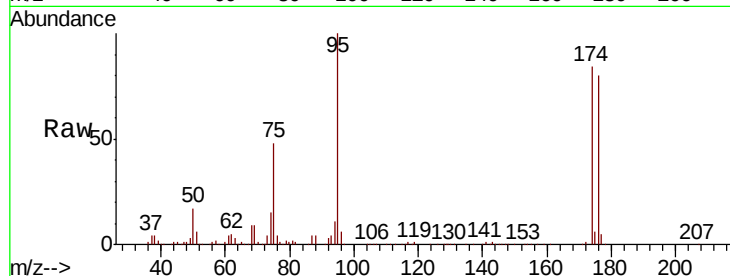
Tgt Ion: 95 Resp: 324443

Ion Ratio Lower Upper

95 100

174 84.8 0.0 168.8

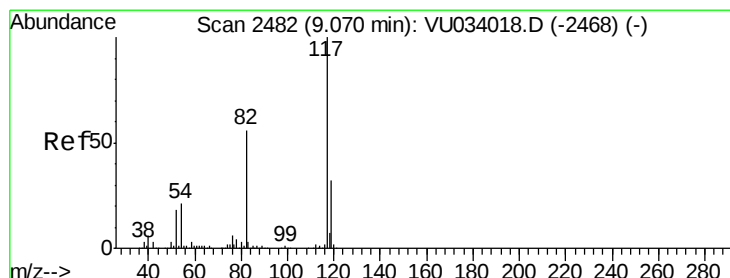
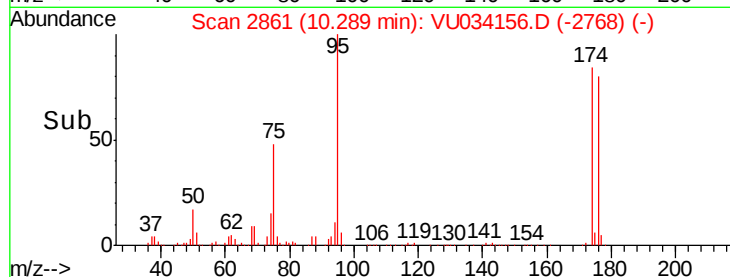
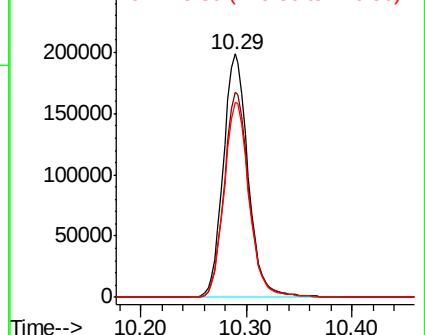
176 80.9 0.0 161.8



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.07 min Scan# 2482

Delta R.T. -0.00 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

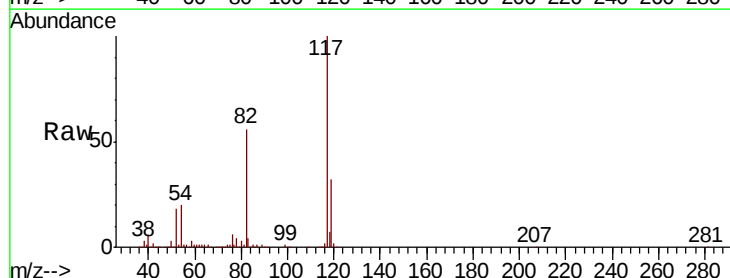
Tgt Ion: 117 Resp: 707028

Ion Ratio Lower Upper

117 100

82 56.4 45.1 67.7

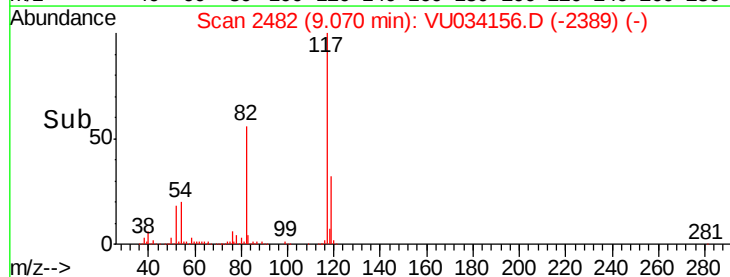
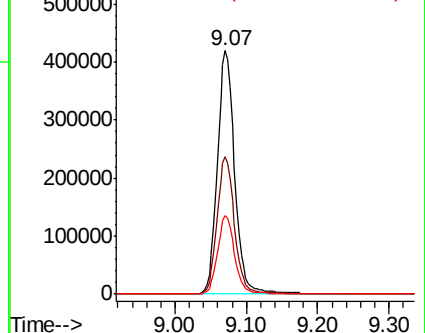
119 32.2 25.4 38.0

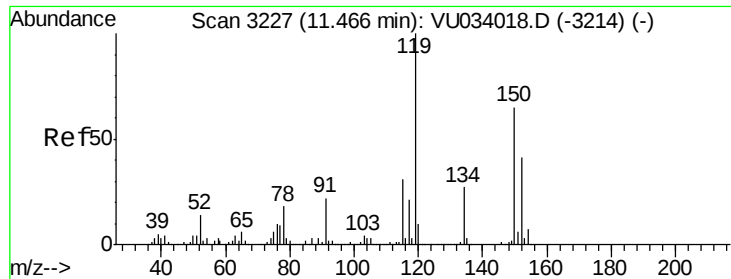


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VU034156.D

Acq: 01 Sep 2019 05:15

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-L-(0)

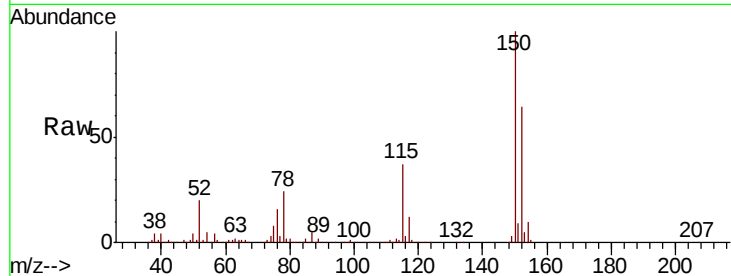
Tgt Ion:152 Resp: 349978

Ion Ratio Lower Upper

152 100

115 56.9 41.1 123.3

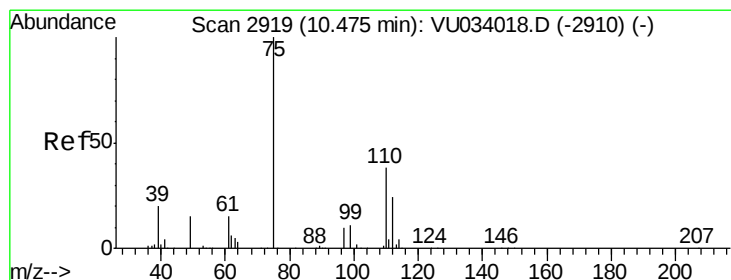
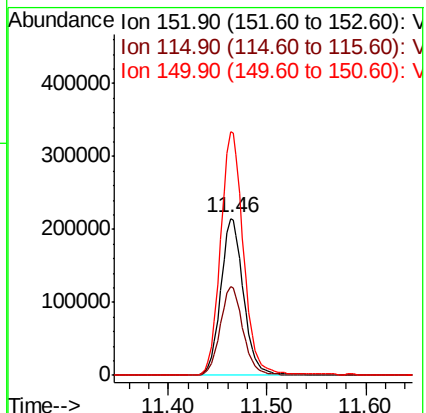
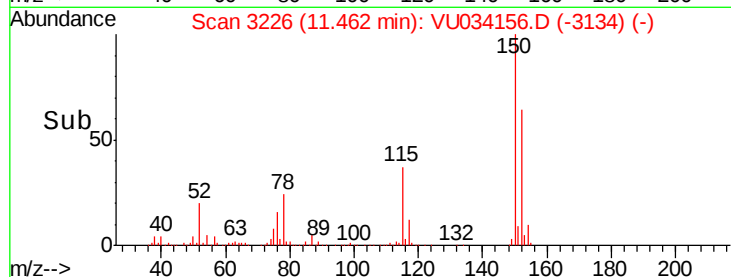
150 156.5 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 19.636 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034156.D

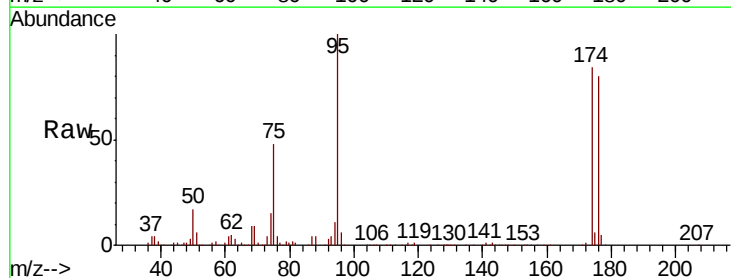
Acq: 01 Sep 2019 05:15

Tgt Ion: 75 Resp: 154888

Ion Ratio Lower Upper

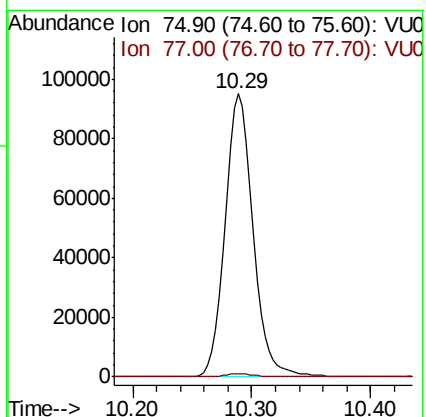
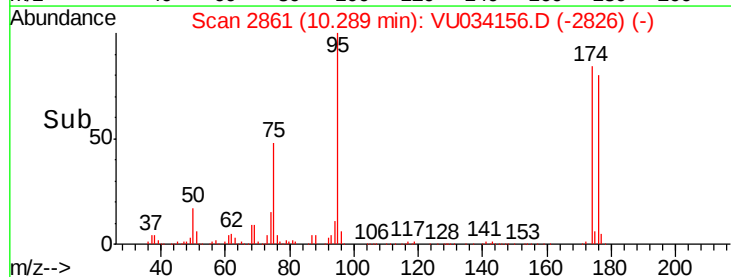
75 100

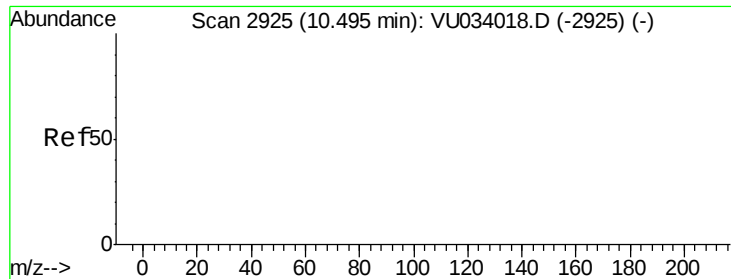
77 1.2 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81
trans-1,4-Dichloro-2-butene
Concen: 66.120 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034156.D
Acq: 01 Sep 2019 05:15

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-L-(0)

Tgt Ion: 75 Resp: 154888
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0

