

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
 Data File : VU034147.D
 Acq On : 01 Sep 2019 01:46
 Operator : JC/SP
 Sample : K4526-29
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F4-(0)

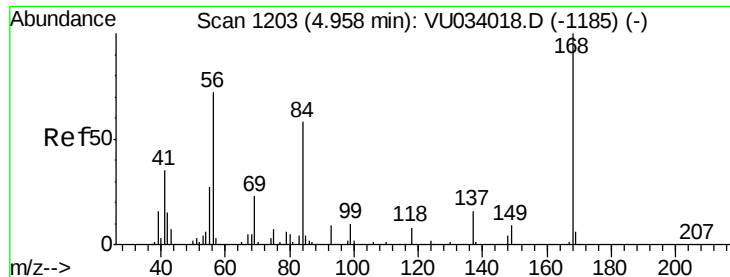
Quant Time: Sep 01 04:53:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 04:11:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	451881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	726534	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	722313	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	354624	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	284782	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
35) Dibromofluoromethane	4.86	113	239420	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	7.55	98	940929	49.87	ug/l	0.00
Spiked Amount			Recovery	=	99.74%	
62) 4-Bromofluorobenzene	10.29	95	332821	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	489	Below Cal	#	60
5) Bromomethane	1.64	94	666	Below Cal		88
11) Tert butyl alcohol	2.83	59	2787	2.087	ug/l #	73
13) Acrolein	2.18	56	166	0.296	ug/l	90
16) Acetone	2.31	43	17031	5.765	ug/l	100
18) Methyl Acetate	2.62	43	2881	0.377	ug/l #	86
20) Methylene Chloride	2.69	84	10936	1.955	ug/l	91
31) Cyclohexane	4.96	56	8450	0.977	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	33921	4.936	ug/l #	49
37) Ethyl Acetate	4.29	43	1804	0.234	ug/l #	68
38) Carbon Tetrachloride	4.96	117	40084	6.043	ug/l #	15
43) Isopropyl Acetate	5.53	43	73781	6.302	ug/l	97
48) Methyl methacrylate	6.53	41	4602	0.815	ug/l #	14
51) 4-Methyl-2-Pentanone	7.40	43	69918	8.648	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	32884	3.760	ug/l #	66
56) Ethyl methacrylate	7.93	69	265	1.000	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	5294	0.575	ug/l #	42
59) 2-Hexanone	8.40	43	74058	12.133	ug/l #	53
74) N-amyl acetate	9.92	43	2092	0.209	ug/l #	48
76) 1,2,3-Trichloropropane	10.29	75	158976	19.890	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	158976	66.976	ug/l #	100
95) Naphthalene	13.80	128	47	1.792	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VU034147.D

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ClientSampleId :

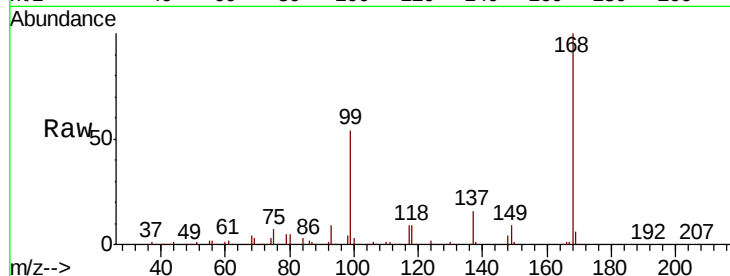
T9-12-13-F4-(0)

Tgt Ion:168 Resp: 451881

Ion Ratio Lower Upper

168 100

99 53.6 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

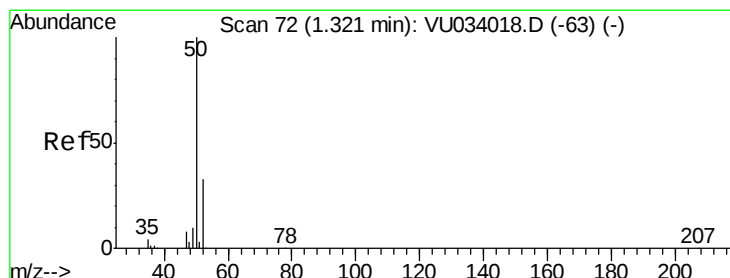
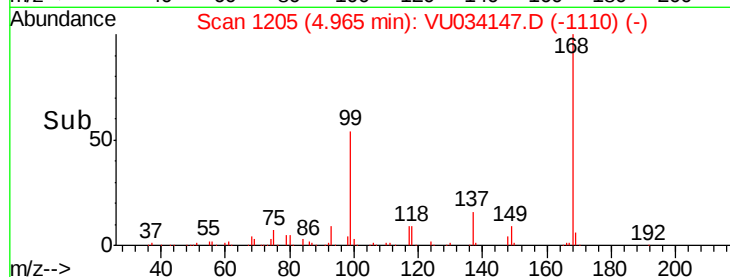
100000

50000

0

4.90 4.96 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034147.D

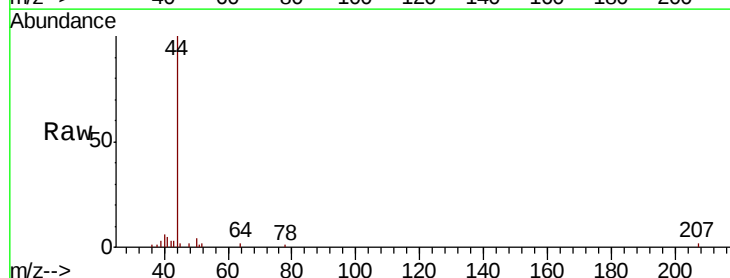
Acq: 01 Sep 2019 01:46

Tgt Ion: 50 Resp: 489

Ion Ratio Lower Upper

50 100

52 55.3 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) (-)

1.33

400

300

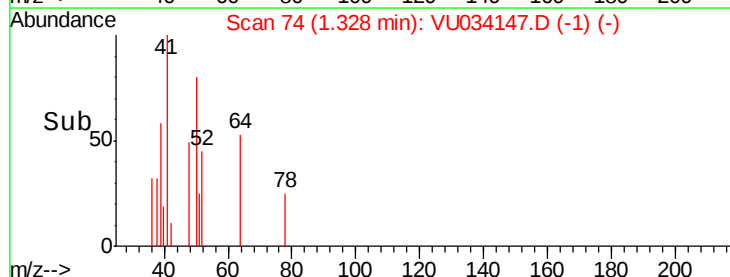
200

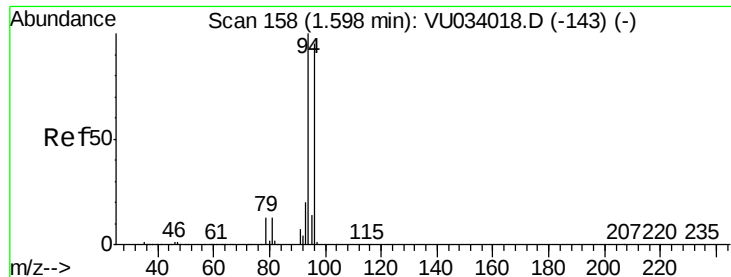
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 170

Delta R.T. 0.04 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

Instrument :

MSVOA_U

ClientSampleId :

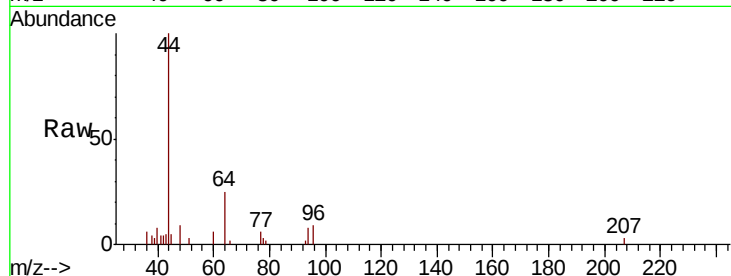
T9-12-13-F4-(0)

Tgt Ion: 94 Resp: 666

Ion Ratio Lower Upper

94 100

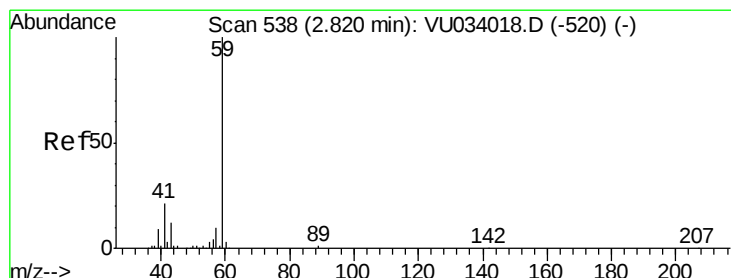
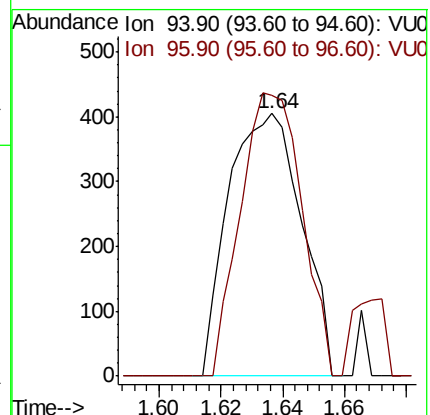
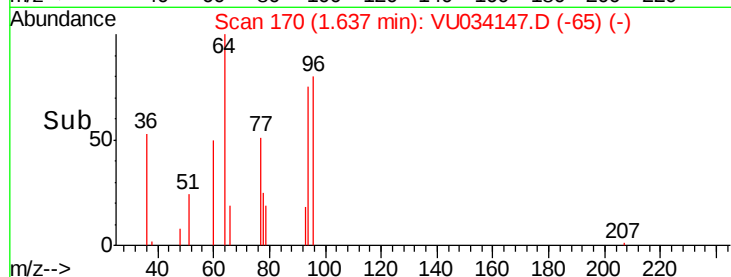
96 107.2 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU034147.D (-143) (-)

Ion 95.90 (95.60 to 96.60): VU034147.D (-143) (-)

Time-->



#11

Tert butyl alcohol

Concen: 2.087 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034147.D

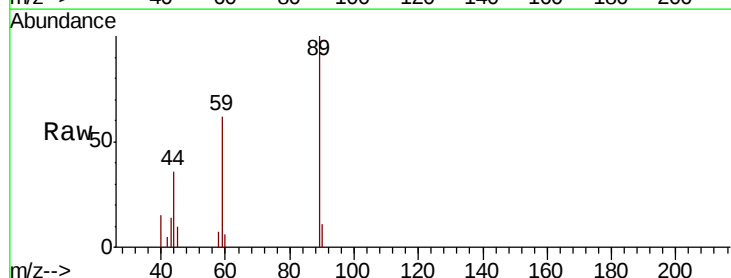
Acq: 01 Sep 2019 01:46

Tgt Ion: 59 Resp: 2787

Ion Ratio Lower Upper

59 100

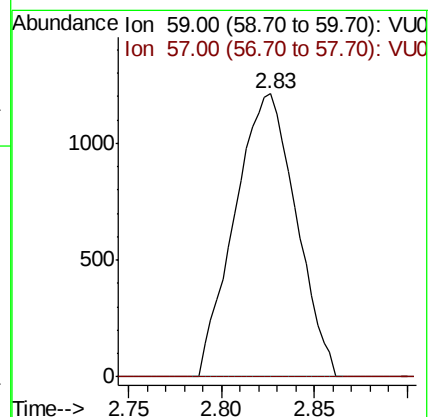
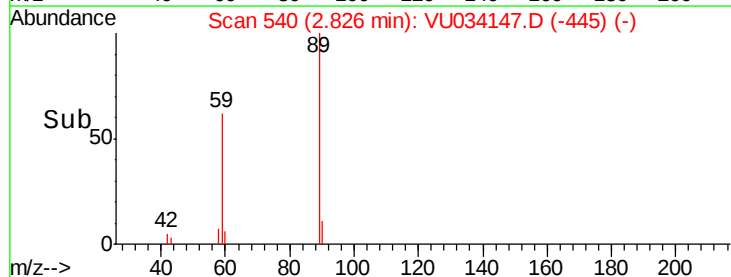
57 0.0 8.0 12.0#

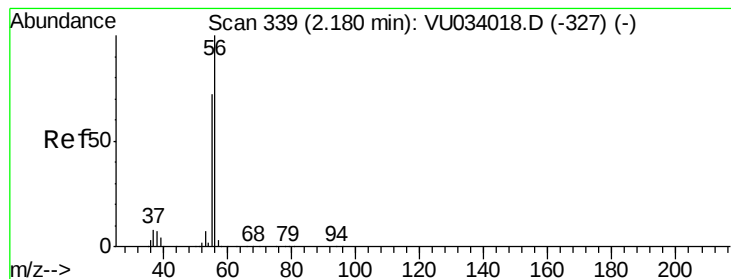


Abundance Ion 59.00 (58.70 to 59.70): VU034147.D (-445) (-)

Ion 57.00 (56.70 to 57.70): VU034147.D (-445) (-)

Time-->





#13

Acrolein

Concen: 0.296 ug/l

RT: 2.18 min Scan# 339

Delta R.T. 0.00 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

Instrument :

MSVOA_U

ClientSampleId :

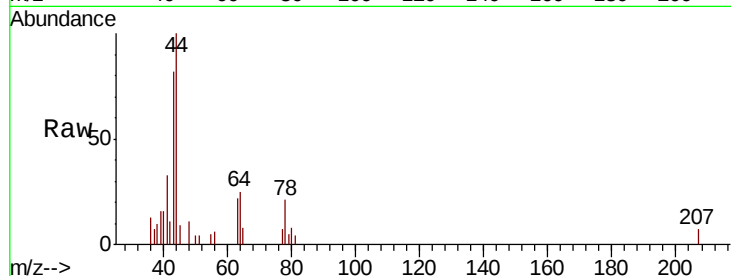
T9-12-13-F4-(0)

Tgt Ion: 56 Resp: 166

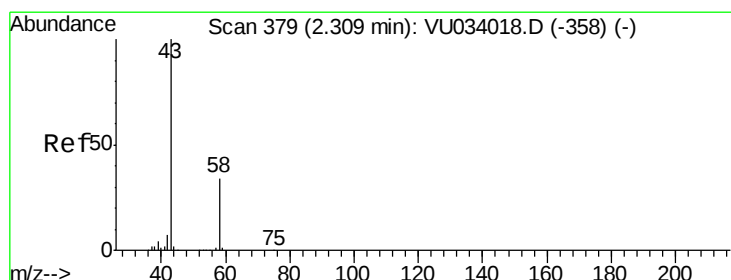
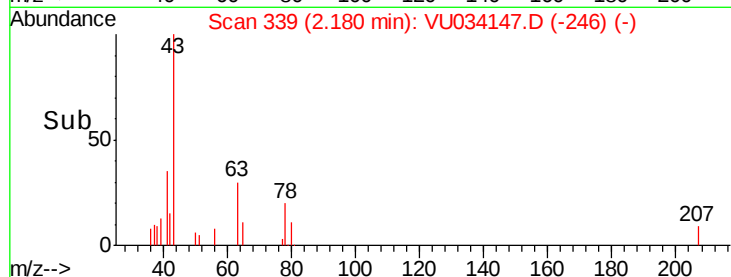
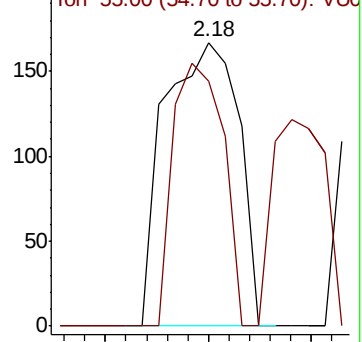
Ion Ratio Lower Upper

56 100

55 63.3 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VU034147.D (-246) (-)



#16

Acetone

Concen: 5.765 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034147.D

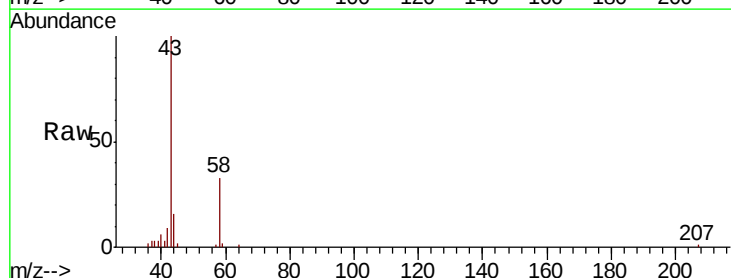
Acq: 01 Sep 2019 01:46

Tgt Ion: 43 Resp: 17031

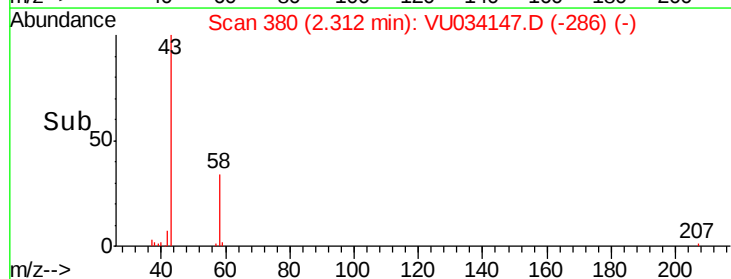
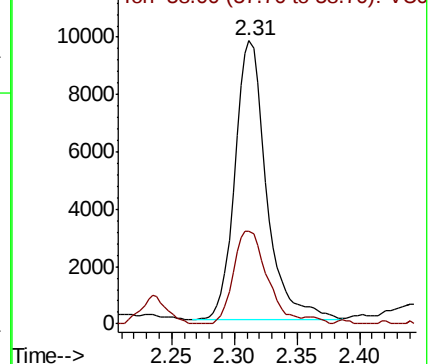
Ion Ratio Lower Upper

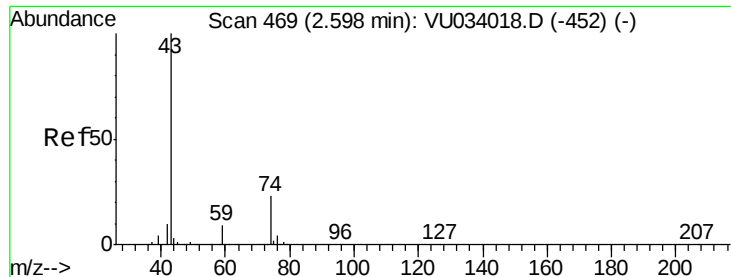
43 100

58 33.4 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034147.D (-286) (-)

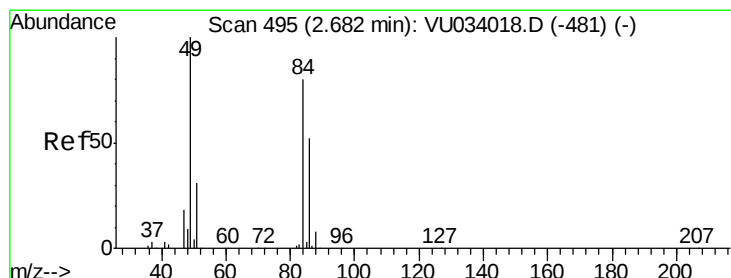
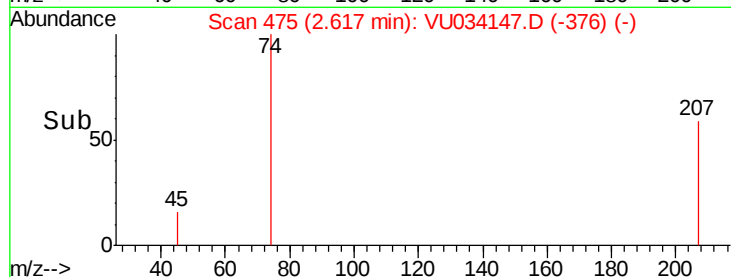
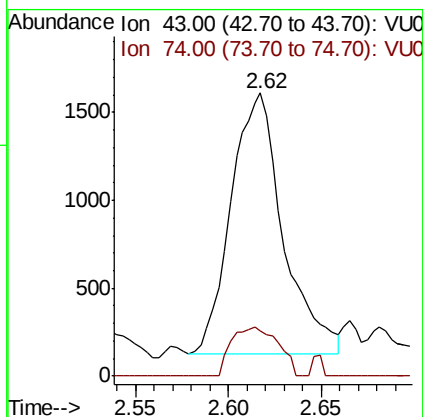
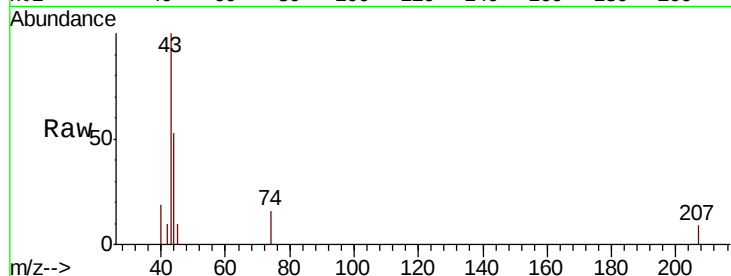




#18
Methyl Acetate
Concen: 0.377 ug/l
RT: 2.62 min Scan# 475
Delta R.T. 0.02 min
Lab File: VU034147.D
Acq: 01 Sep 2019 01:46

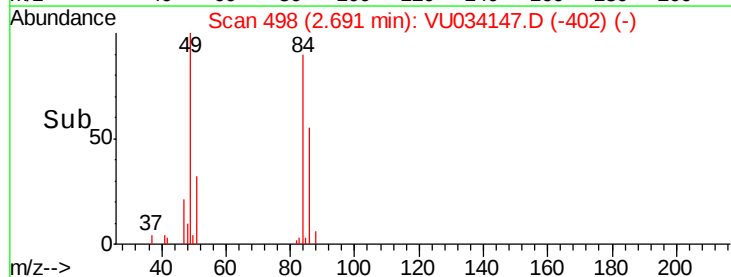
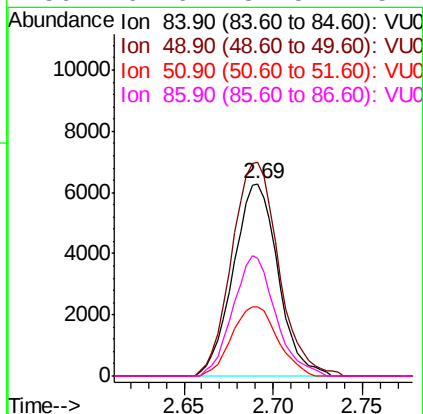
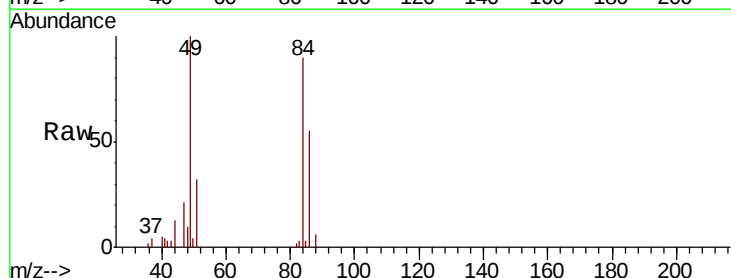
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F4-(0)

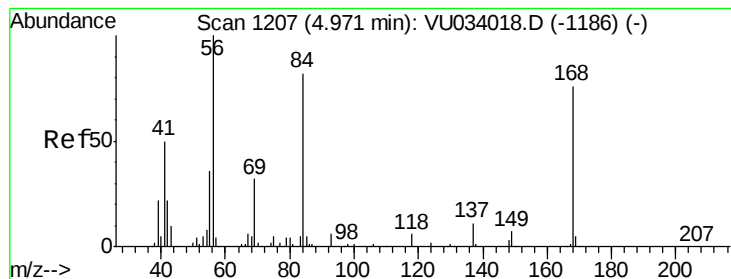
Tgt Ion: 43 Resp: 2881
Ion Ratio Lower Upper
43 100
74 17.0 19.2 28.8#



#20
Methylene Chloride
Concen: 1.955 ug/l
RT: 2.69 min Scan# 498
Delta R.T. 0.01 min
Lab File: VU034147.D
Acq: 01 Sep 2019 01:46

Tgt Ion: 84 Resp: 10936
Ion Ratio Lower Upper
84 100
49 111.1 100.2 150.4
51 36.0 30.8 46.2
86 61.6 52.5 78.7





#31

Cyclohexane

Concen: 0.977 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F4-(0)

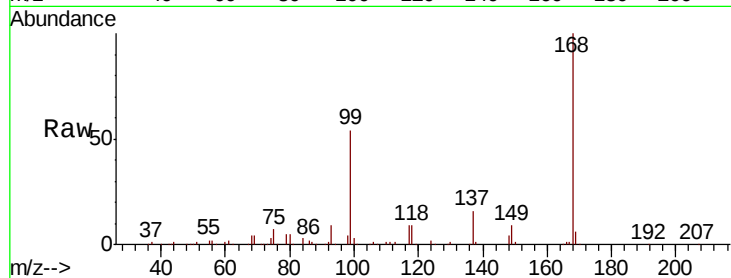
Tgt Ion: 56 Resp: 8450

Ion Ratio Lower Upper

56 100

69 184.9 25.4 38.0#

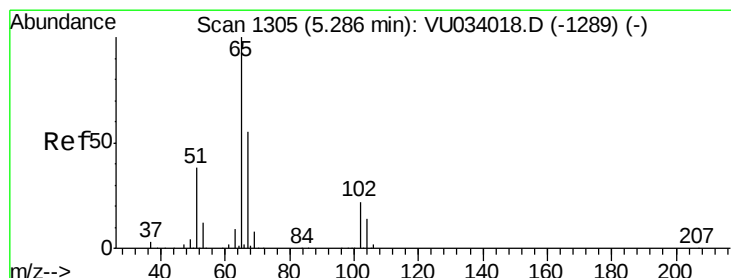
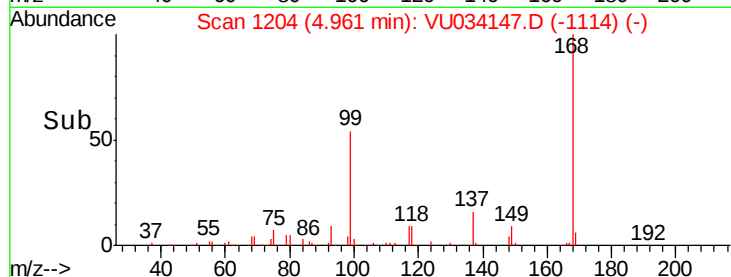
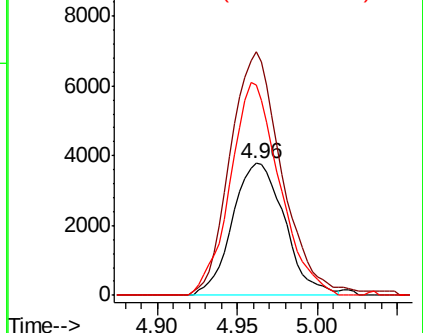
84 159.5 65.8 98.8#



Abundance Ion 56.00 (55.70 to 56.70): VU034147.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU034147.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU034147.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.184 ug/l

RT: 5.29 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VU034147.D

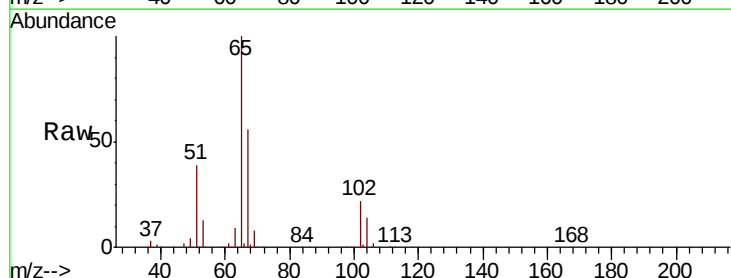
Acq: 01 Sep 2019 01:46

Tgt Ion: 65 Resp: 284782

Ion Ratio Lower Upper

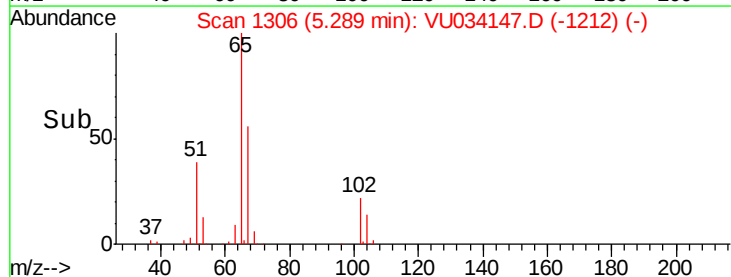
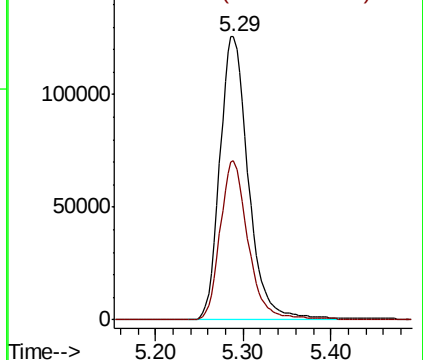
65 100

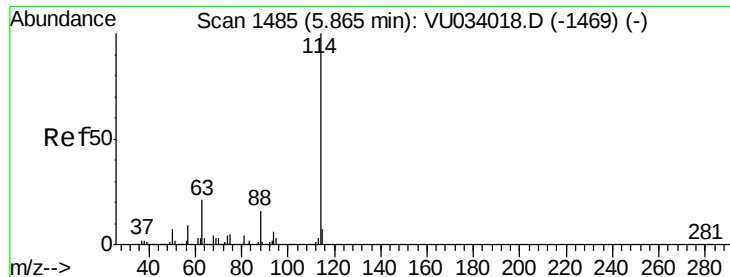
67 54.9 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VU034147.D (-1212) (-)

Ion 66.90 (66.60 to 67.60): VU034147.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: VU034147.D

Acq: 01 Sep 2019 01:46

Instrument :

MSVOA_U

ClientSampleId :

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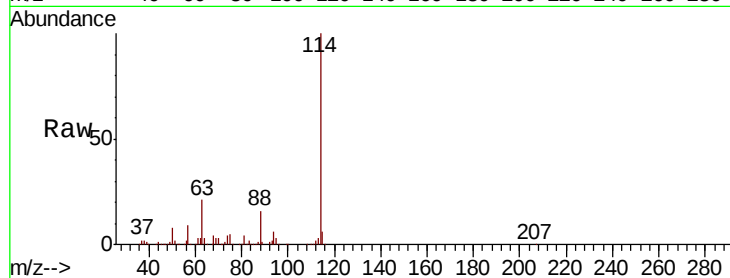
Tgt Ion:114 Resp: 726534

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.0

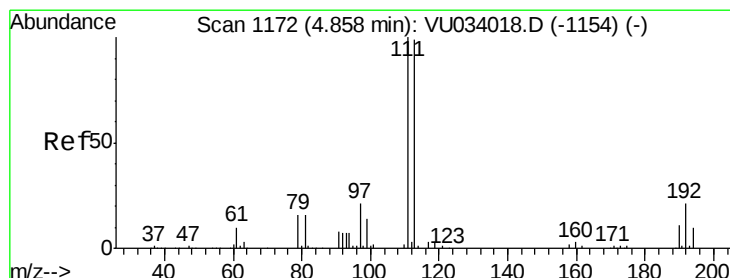
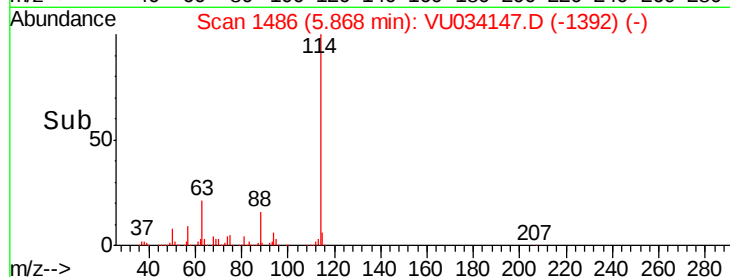
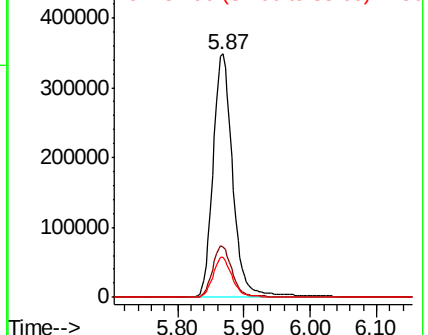
88 16.4 0.0 32.0



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: 47.512 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

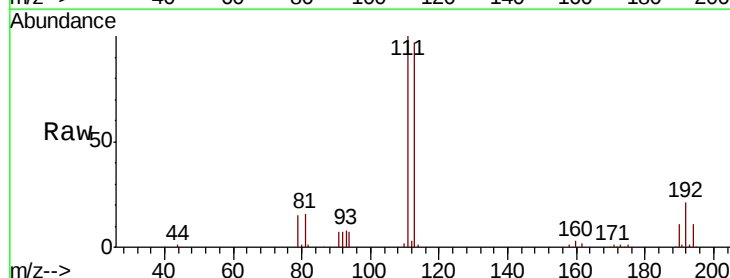
Tgt Ion:113 Resp: 239420

Ion Ratio Lower Upper

113 100

111 101.4 81.7 122.5

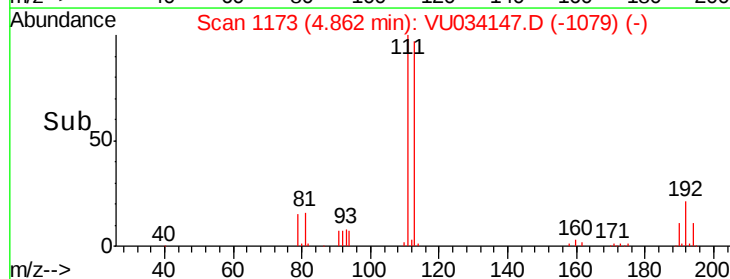
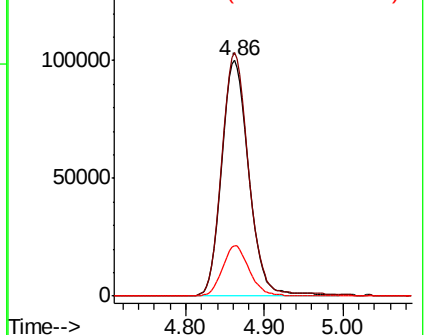
192 21.1 17.1 25.7

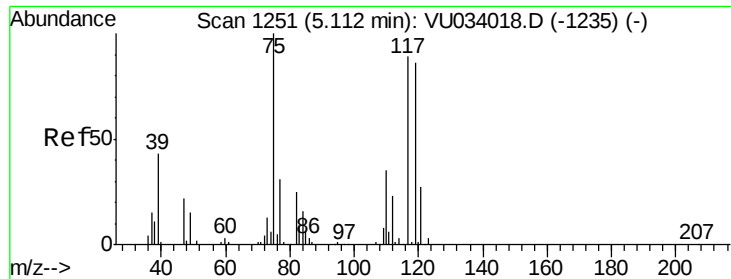


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

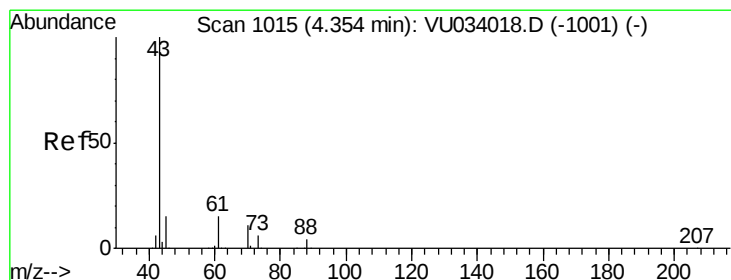
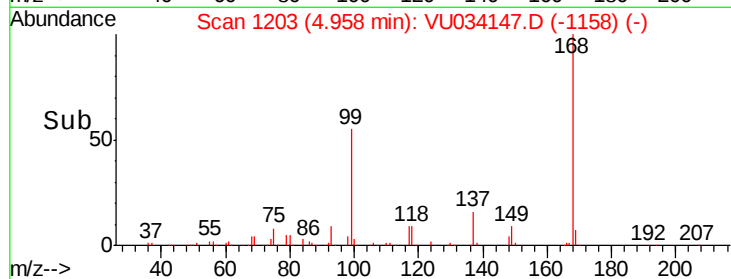
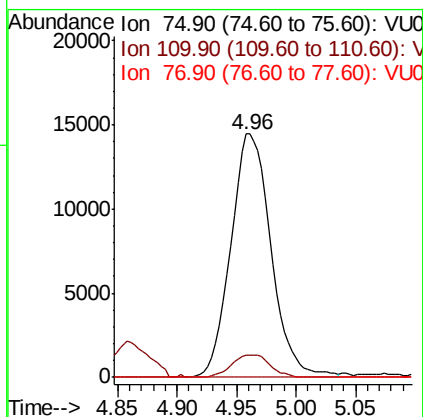
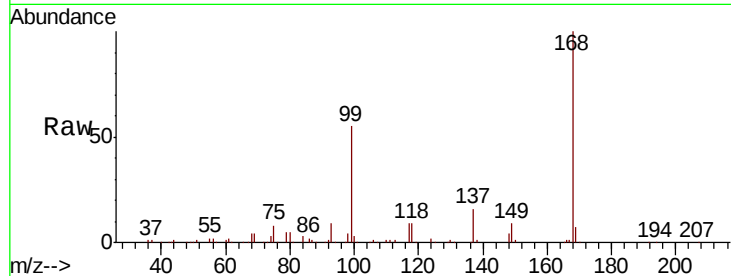




#36
 1,1-Dichloropropene
 Concen: 4.936 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU034147.D
 Acq: 01 Sep 2019 01:46

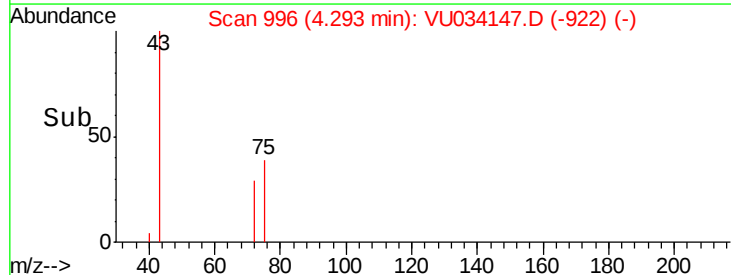
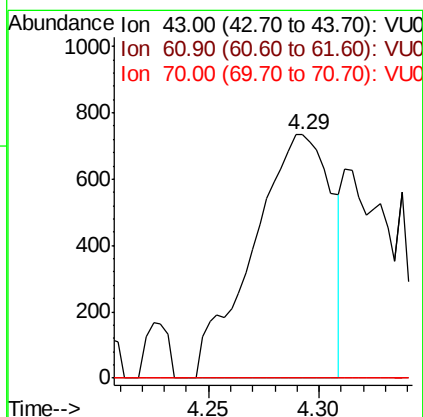
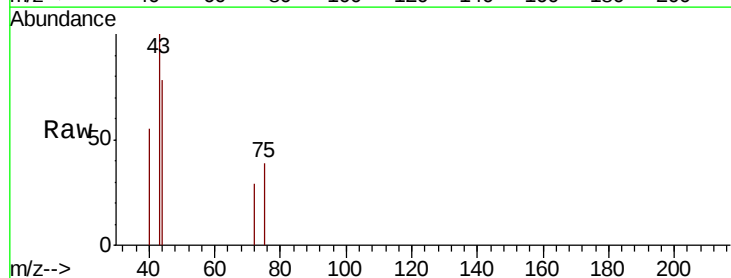
Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F4-(0)

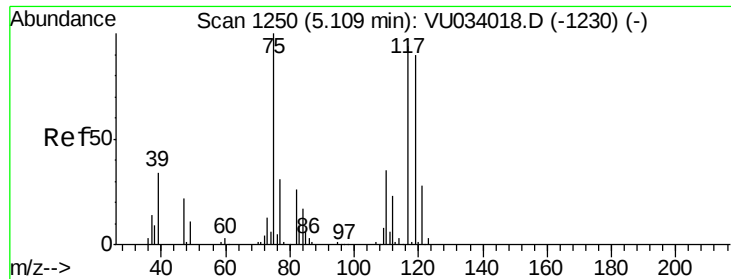
Tgt Ion: 75 Resp: 33921
 Ion Ratio Lower Upper
 75 100
 110 8.8 17.8 53.5#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 0.234 ug/l
 RT: 4.29 min Scan# 996
 Delta R.T. -0.06 min
 Lab File: VU034147.D
 Acq: 01 Sep 2019 01:46

Tgt Ion: 43 Resp: 1804
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 8.6 12.8#





#38

Carbon Tetrachloride

Concen: 6.043 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.15 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F4-(0)

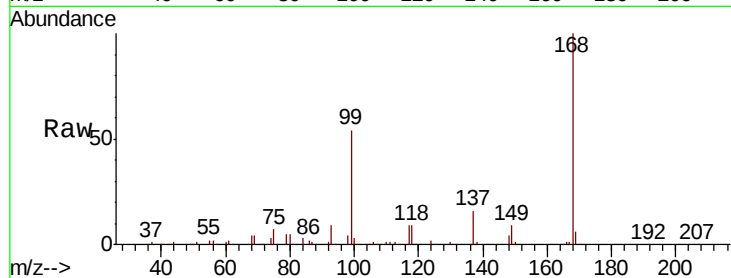
Tgt Ion:117 Resp: 40084

Ion Ratio Lower Upper

117 100

119 4.5 77.0 115.4#

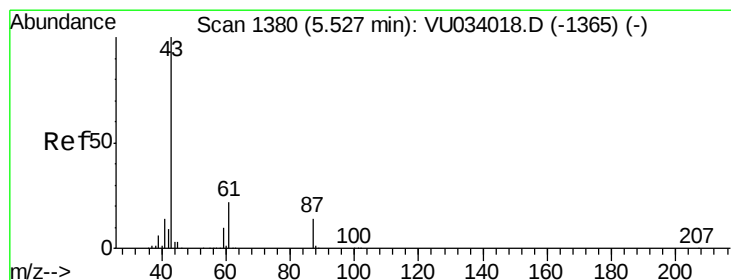
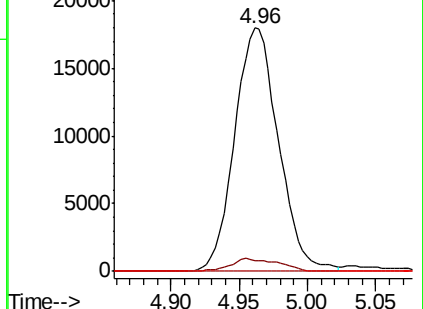
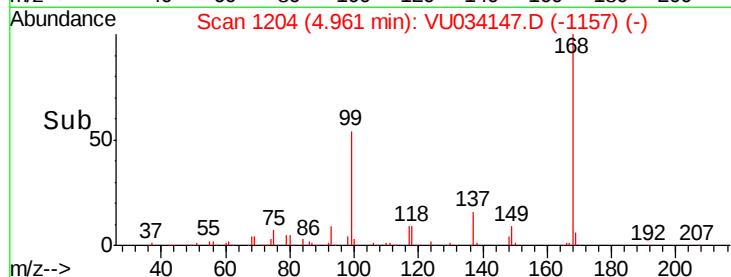
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 6.302 ug/l

RT: 5.53 min Scan# 1382

Delta R.T. 0.01 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

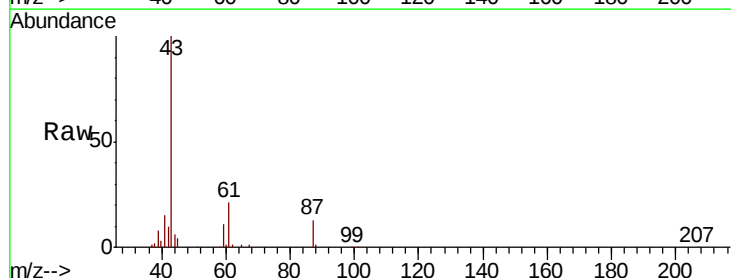
Tgt Ion: 43 Resp: 73781

Ion Ratio Lower Upper

43 100

61 20.2 17.2 25.8

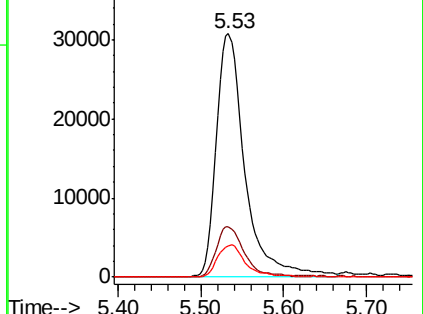
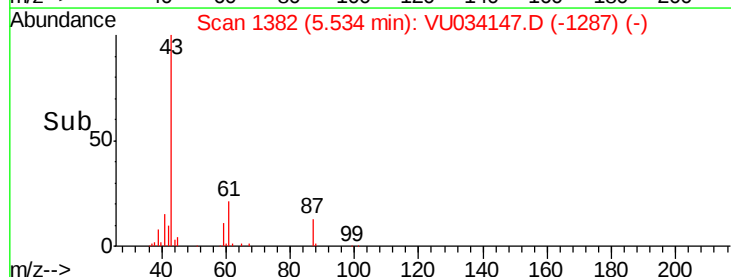
87 12.6 10.8 16.2

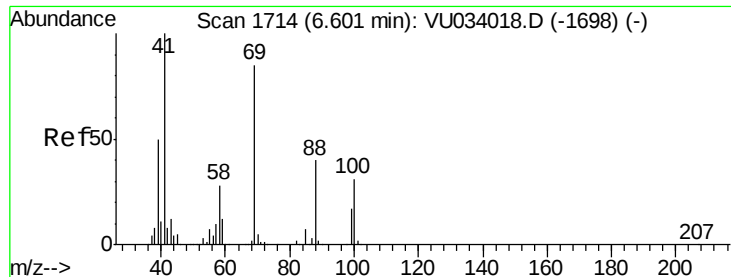


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

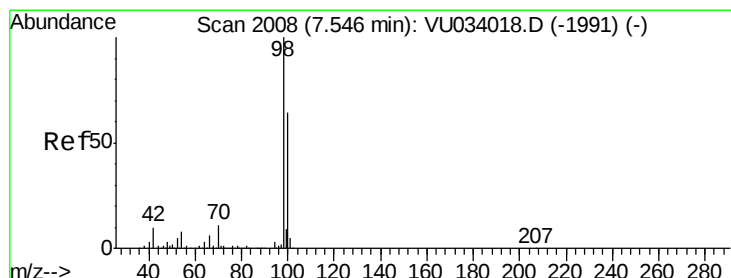
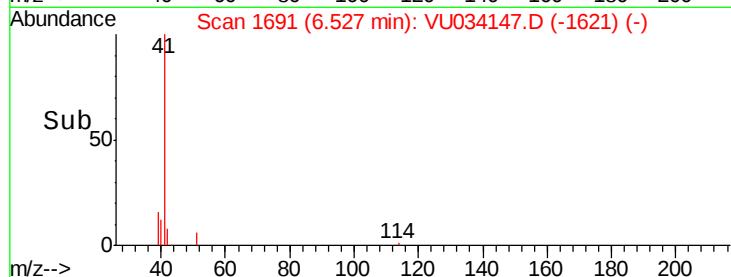
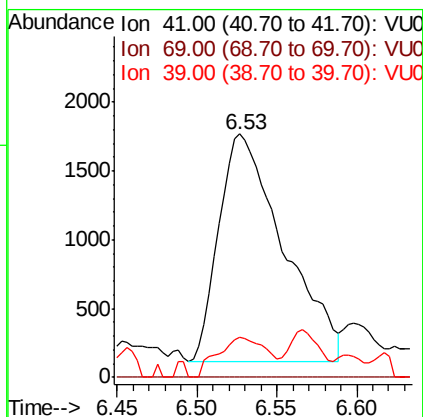
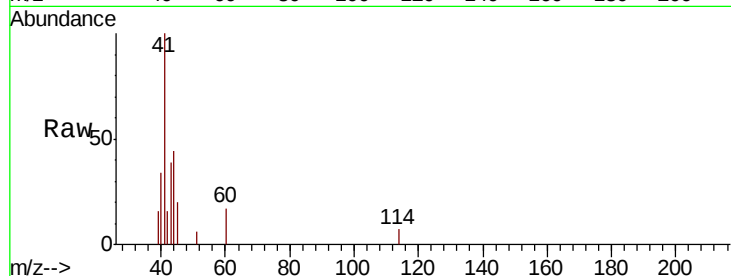




#48
Methyl methacrylate
Concen: 0.815 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.07 min
Lab File: VU034147.D
Acq: 01 Sep 2019 01:46

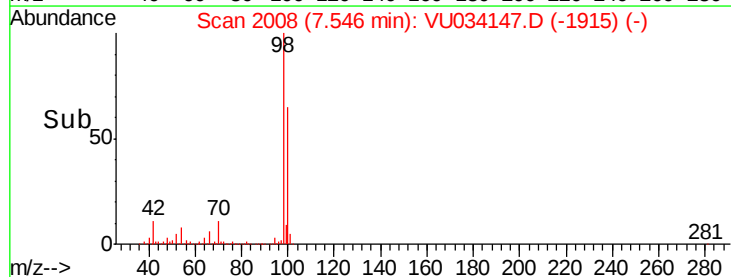
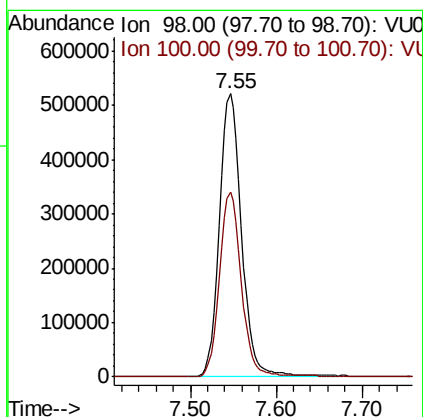
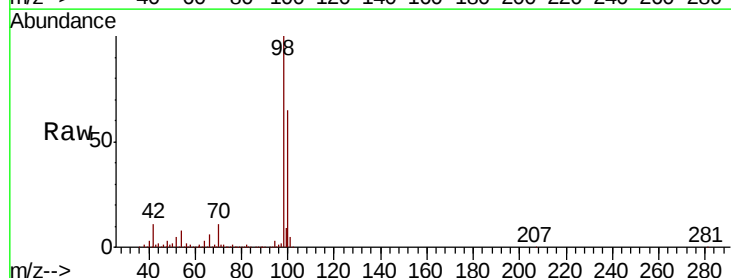
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F4-(0)

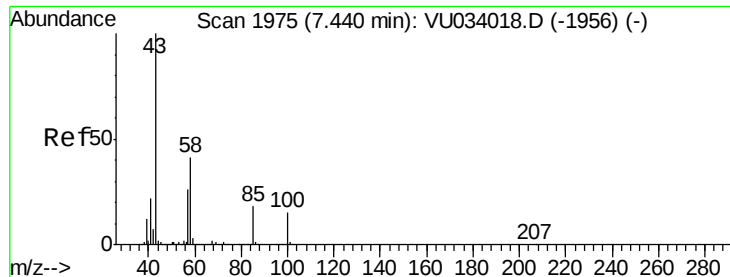
Tgt Ion: 41 Resp: 4602
Ion Ratio Lower Upper
41 100
69 0.0 69.5 104.3#
39 0.0 40.3 60.5#



#50
Toluene-d8
Concen: 49.868 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034147.D
Acq: 01 Sep 2019 01:46

Tgt Ion: 98 Resp: 940929
Ion Ratio Lower Upper
98 100
100 64.8 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 8.648 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

Instrument :

MSVOA_U

ClientSampleId :

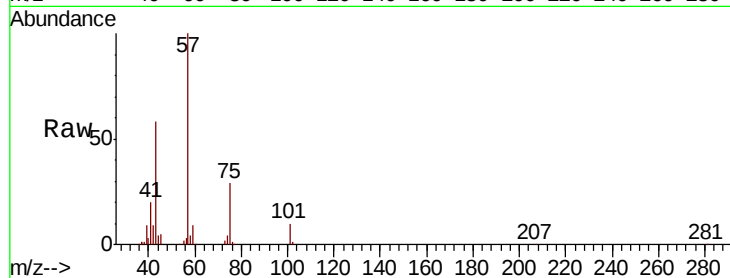
T9-12-13-F4-(0)

Tgt Ion: 43 Resp: 69918

Ion Ratio Lower Upper

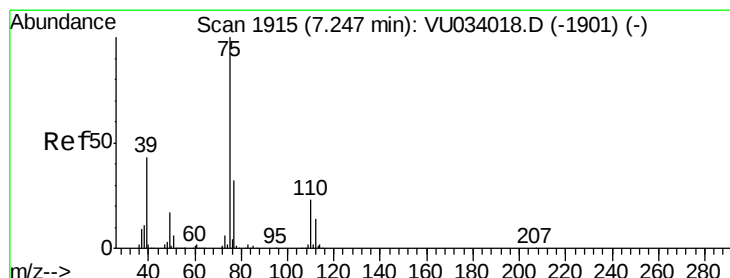
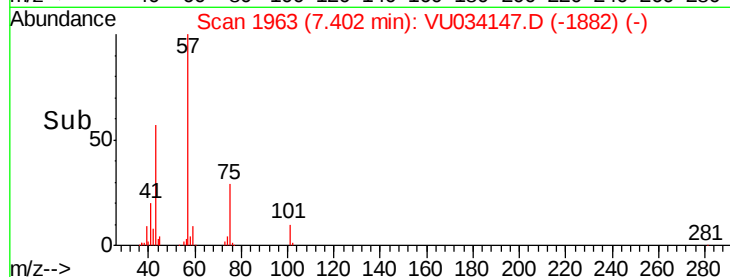
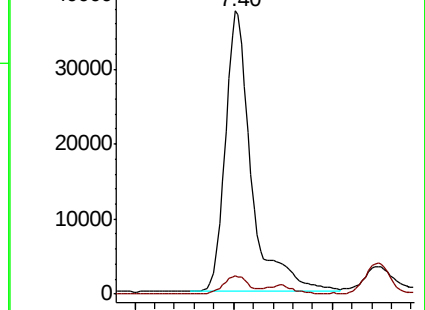
43 100

58 6.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034147.D (-1822) (-)

Ion 58.00 (57.70 to 58.70): VU034147.D (-1822) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.760 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

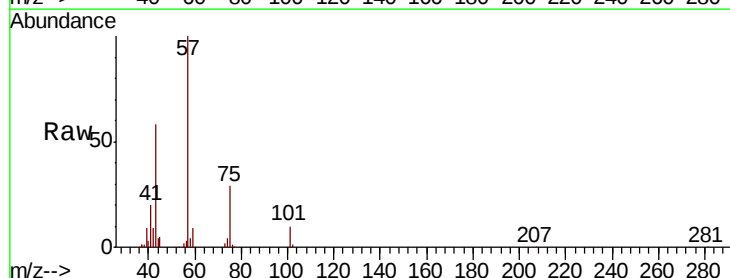
Tgt Ion: 75 Resp: 32884

Ion Ratio Lower Upper

75 100

77 0.9 25.2 37.8#

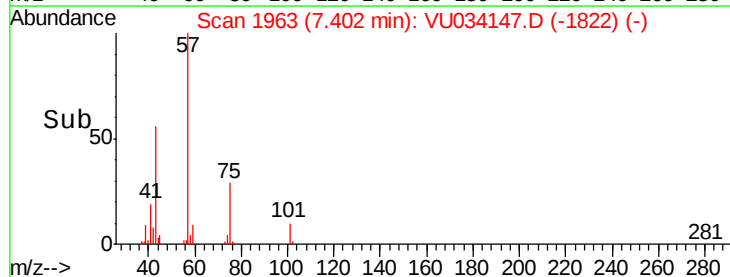
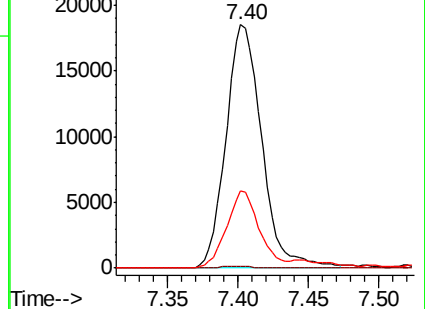
39 31.6 34.6 51.8#

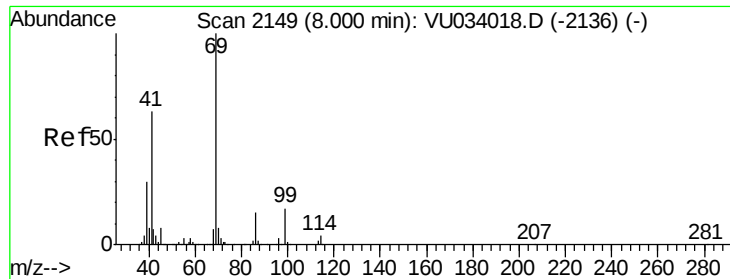


Abundance Ion 74.90 (74.60 to 75.60): VU034147.D (-1822) (-)

Ion 76.90 (76.60 to 77.60): VU034147.D (-1822) (-)

Ion 39.00 (38.70 to 39.70): VU034147.D (-1822) (-)





#56

Ethyl methacrylate

Concen: 1.000 ug/l

RT: 7.93 min Scan# 2126

Delta R.T. -0.07 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F4-(0)

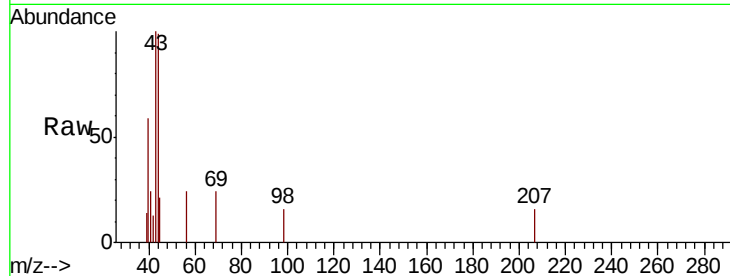
Tgt Ion: 69 Resp: 265

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

39 0.0 24.2 36.2#

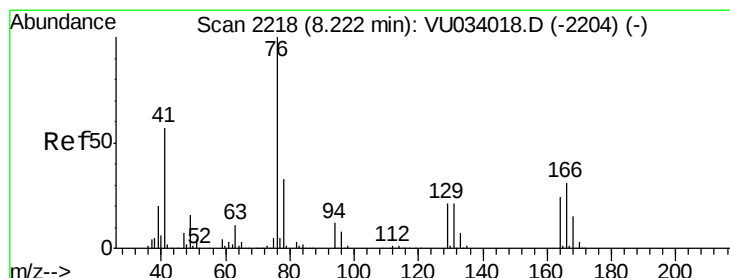
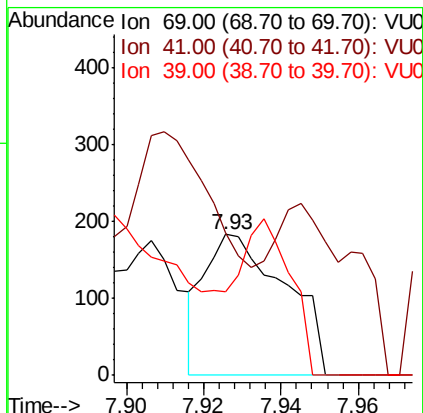
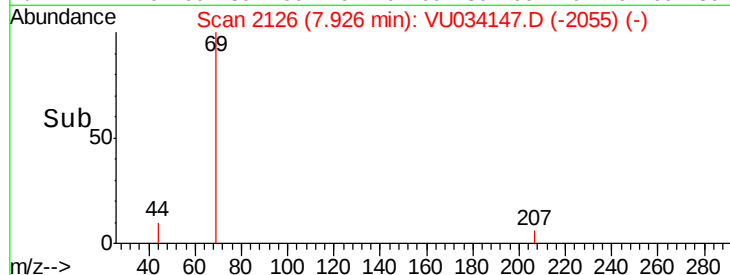


Abundance Ion 69.00 (68.70 to 69.70): VU034147.D (-2055) (-)

Ion 41.00 (40.70 to 41.70): VU034147.D (-2055) (-)

Ion 39.00 (38.70 to 39.70): VU034147.D (-2055) (-)

Time-->



#57

1,3-Dichloropropane

Concen: 0.575 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034147.D

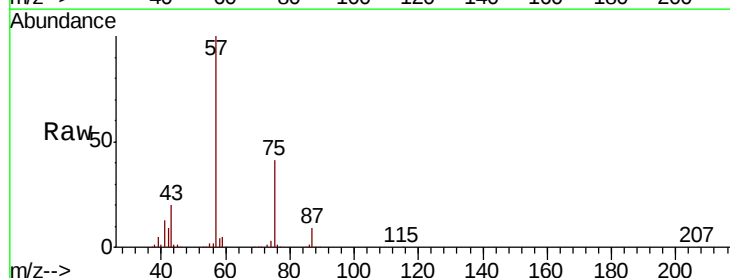
Acq: 01 Sep 2019 01:46

Tgt Ion: 76 Resp: 5294

Ion Ratio Lower Upper

76 100

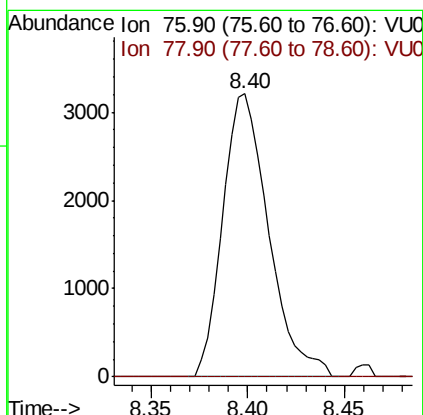
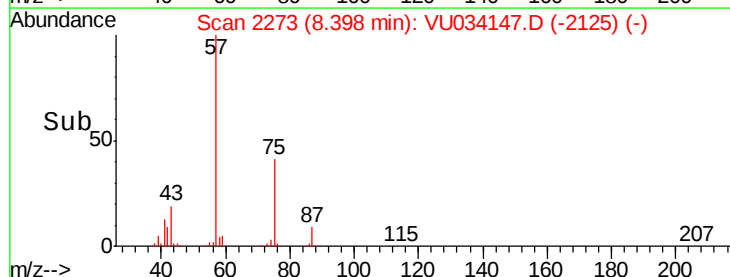
78 0.0 26.2 39.4#

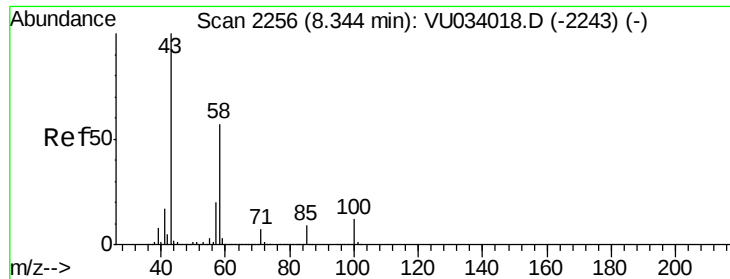


Abundance Ion 75.90 (75.60 to 76.60): VU034147.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034147.D (-2125) (-)

Time-->

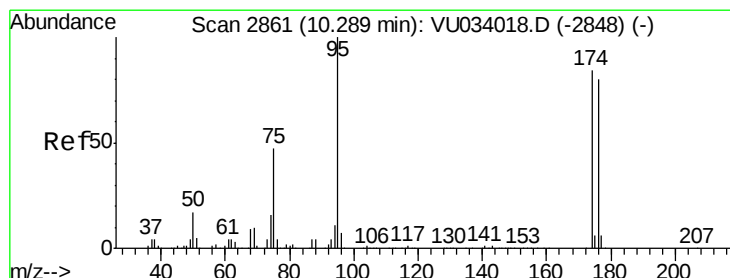
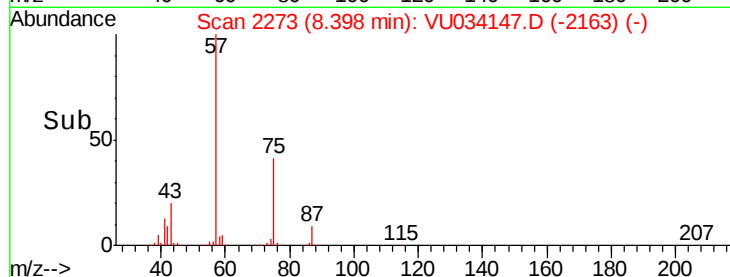
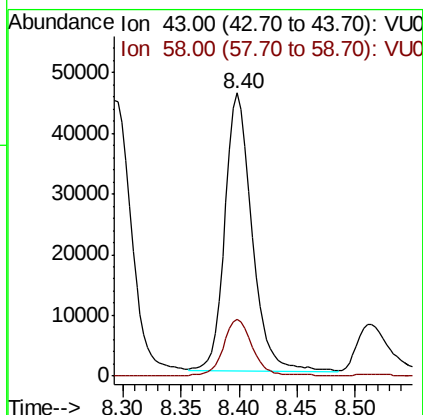
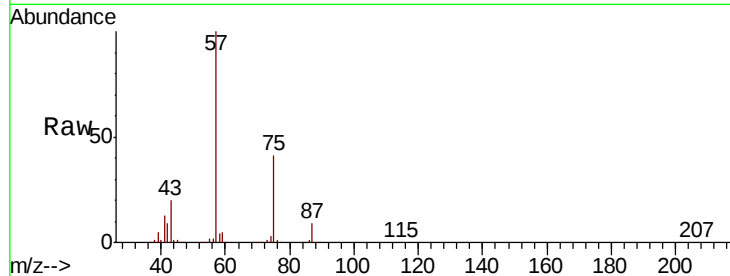




#59
2-Hexanone
Concen: 12.133 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU034147.D
Acq: 01 Sep 2019 01:46

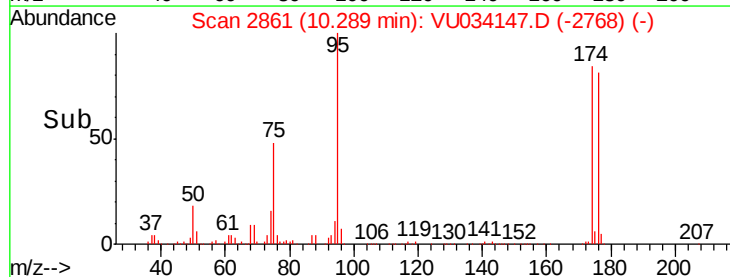
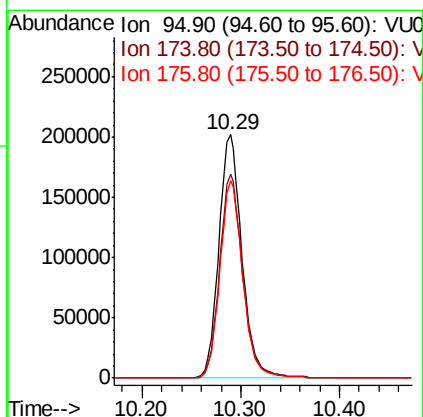
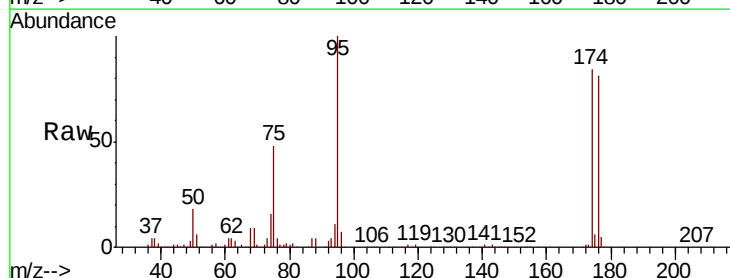
Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F4-(0)

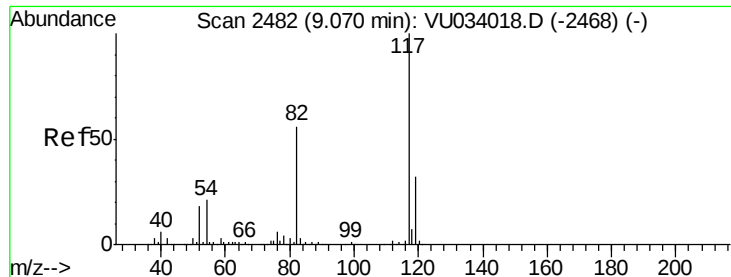
Tgt Ion: 43 Resp: 74058
Ion Ratio Lower Upper
43 100
58 22.0 28.4 85.3#



#62
4-Bromofluorobenzene
Concen: 45.345 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU034147.D
Acq: 01 Sep 2019 01:46

Tgt Ion: 95 Resp: 332821
Ion Ratio Lower Upper
95 100
174 83.9 0.0 168.8
176 80.7 0.0 161.8

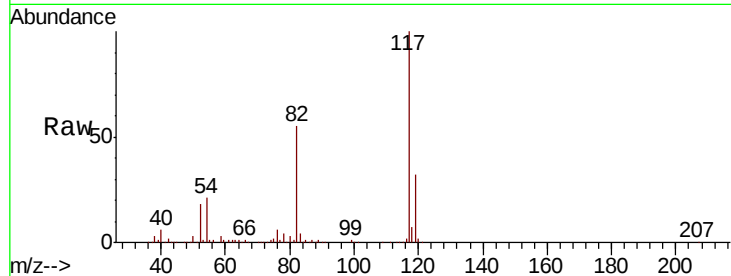




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034147.D
Acq: 01 Sep 2019 01:46

Instrument :
MSVOA_U
ClientSampleId :
T9-12-13-F4-(0)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.1	67.7
119	32.1	25.4	38.0

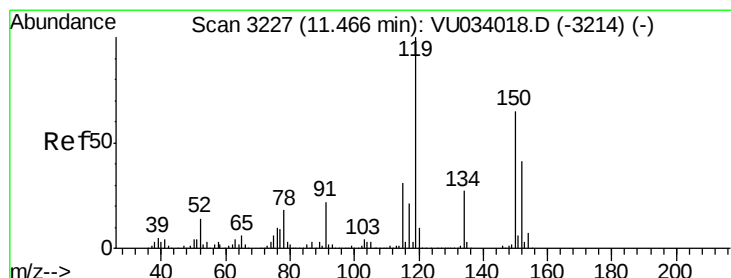
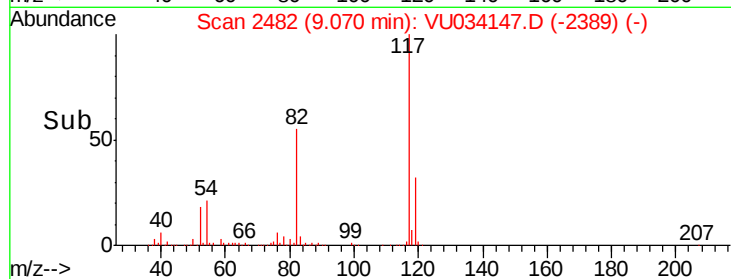
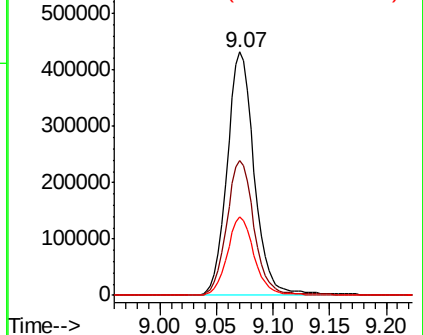


Abundance

Ion 116.90 (116.60 to 117.60): V

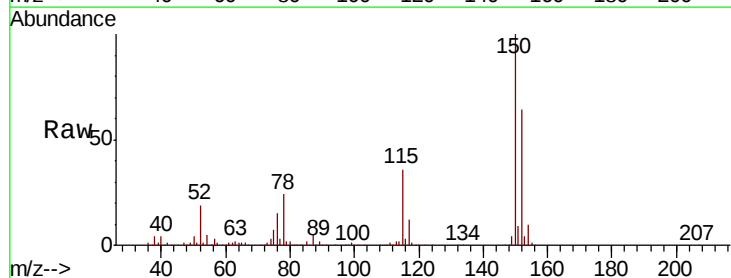
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU034147.D
Acq: 01 Sep 2019 01:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	41.1	123.3
150	157.2	0.0	348.8

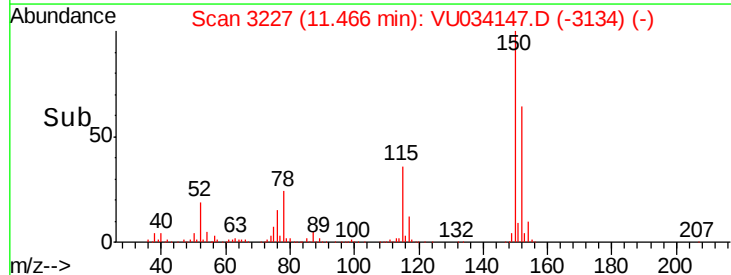
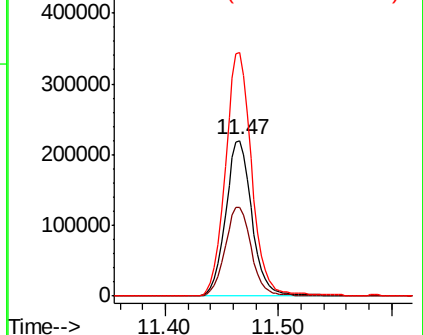


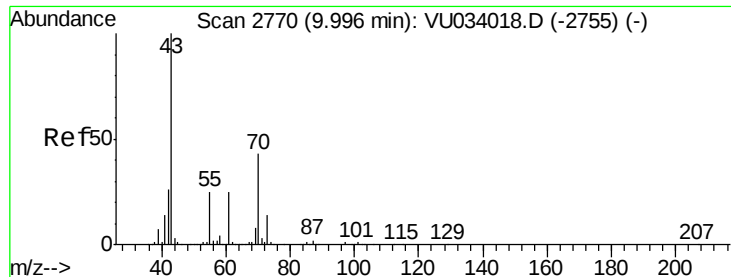
Abundance

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





#74

N-ethyl acetate

Concen: 0.209 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034147.D

Acq: 01 Sep 2019 01:46

Instrument :

MSVOA_U

ClientSampleId :

T9-12-13-F4-(0)

Tgt Ion: 43 Resp: 2092

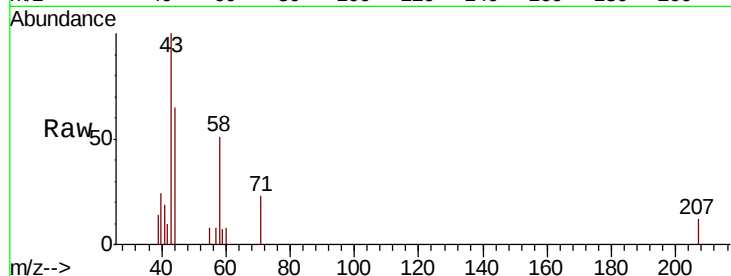
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 12.4 20.5 30.7#

61 0.0 20.0 30.0#

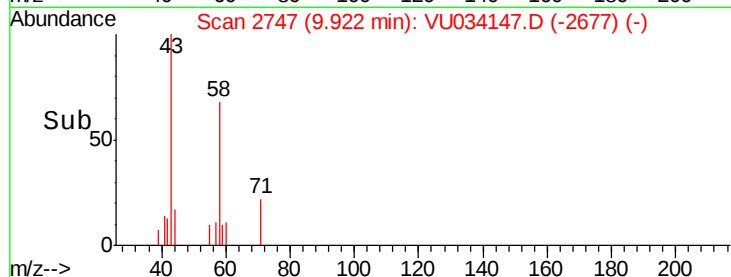
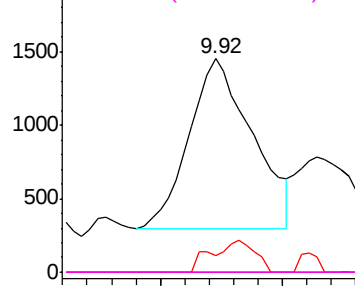


Abundance Ion 43.00 (42.70 to 43.70): VU0

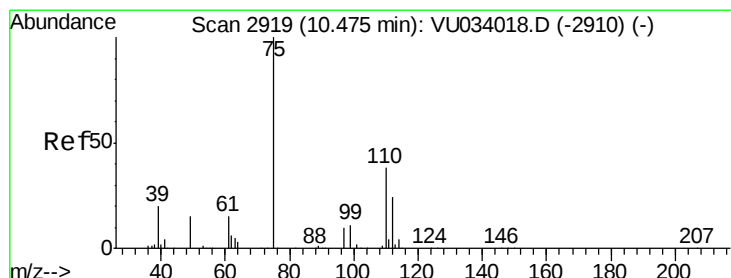
Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



Time-->



#76

1,2,3-Trichloropropane

Concen: 19.890 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034147.D

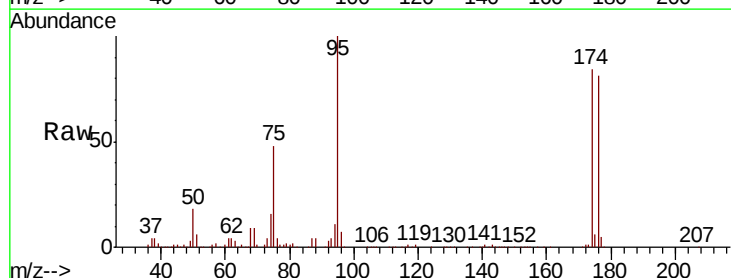
Acq: 01 Sep 2019 01:46

Tgt Ion: 75 Resp: 158976

Ion Ratio Lower Upper

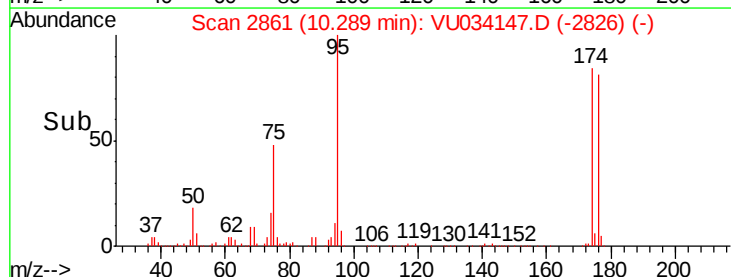
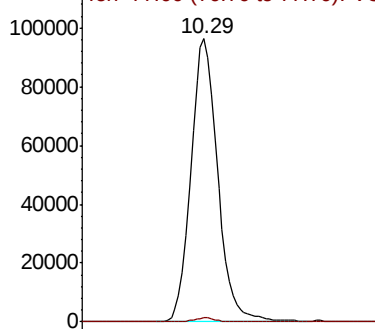
75 100

77 1.2 20.1 60.2#

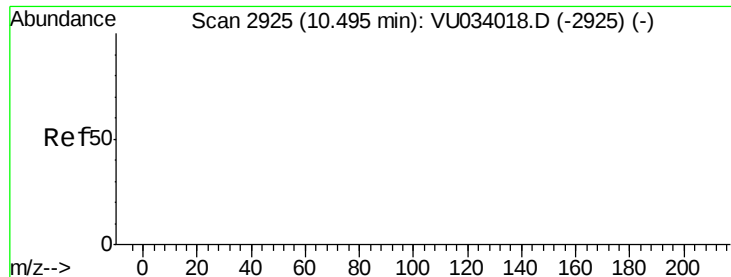


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



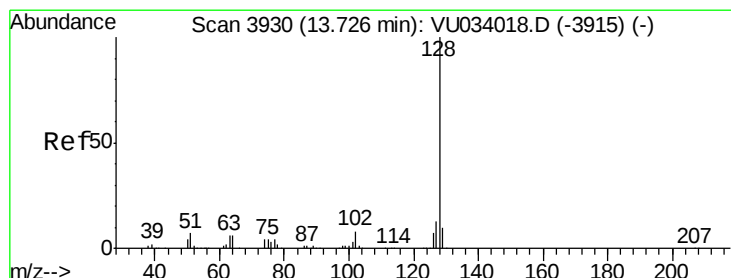
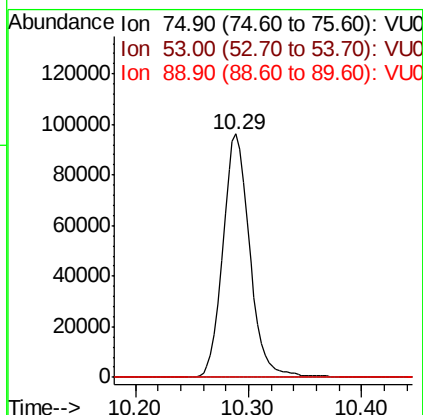
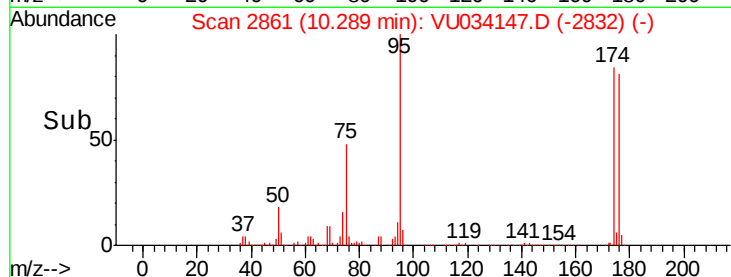
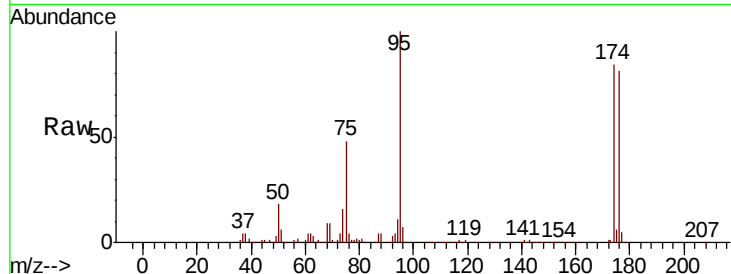
Time-->



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.976 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.21 min
 Lab File: VU034147.D
 Acq: 01 Sep 2019 01:46

Instrument :
 MSVOA_U
 ClientSampleId :
 T9-12-13-F4-(0)

Tgt Ion: 75 Resp: 158976
 Ion Ratio Lower Upper
 75 100
 53 0.1 0.0 0.0#
 89 0.0 0.0 0.0



#95
 Naphthalene
 Concen: 1.792 ug/l
 RT: 13.80 min Scan# 3954
 Delta R.T. 0.08 min
 Lab File: VU034147.D
 Acq: 01 Sep 2019 01:46

Tgt Ion: 128 Resp: 47
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.4 12.6#

