

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU083019\
 Data File : VU034079.D
 Acq On : 29 Aug 2019 21:52
 Operator : JC/SP
 Sample : K4609-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 FERMENTATION-WASTE

Quant Time: Aug 30 04:50:52 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	469297	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	729968	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	700811	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	345186	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	292506	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
35) Dibromofluoromethane	4.86	113	242510	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
50) Toluene-d8	7.55	98	922317	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
62) 4-Bromofluorobenzene	10.29	95	324421	43.99	ug/l	0.00
Spiked Amount			Recovery	=	87.98%	

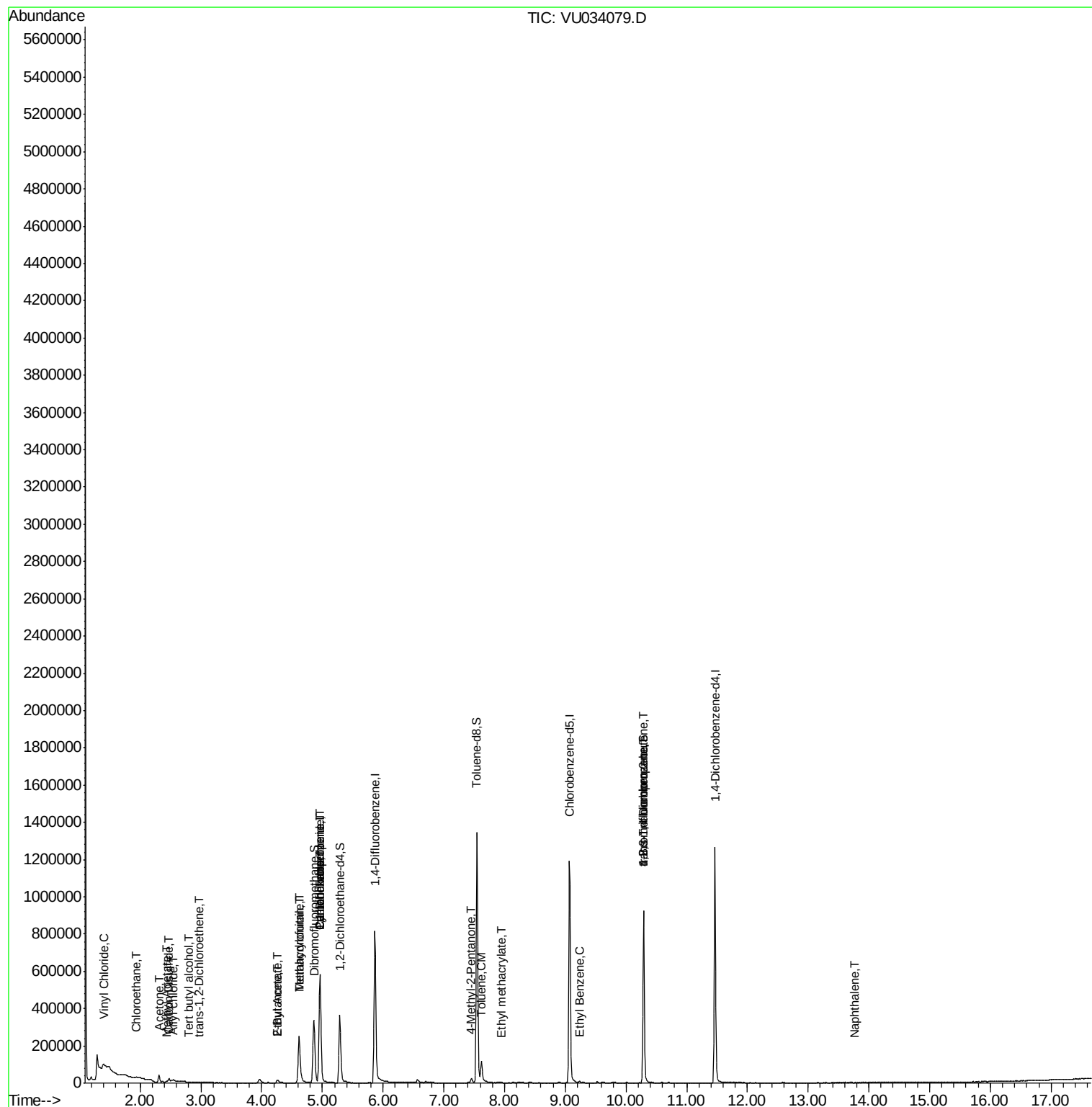
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	761	Below Cal	#	87
4) Vinyl Chloride	1.40	62	9360	1.490	ug/l #	1
5) Bromomethane	1.58	94	40	Below Cal	#	2
6) Chloroethane	1.94	64	1307	0.340	ug/l #	50
11) Tert butyl alcohol	2.81	59	1677	1.209	ug/l #	73
14) Allyl chloride	2.55	41	7777	0.880	ug/l #	52
16) Acetone	2.31	43	42480	13.845	ug/l	99
17) Carbon Disulfide	2.47	76	34288	2.306	ug/l	97
18) Methyl Acetate	2.43	43	2151	0.271	ug/l #	51
21) trans-1,2-Dichloroethene	2.98	96	1169	0.229	ug/l #	92
25) 2-Butanone	4.26	43	25016	5.860	ug/l	100
29) Tetrahydrofuran	4.62	42	200348	76.105	ug/l	97
31) Cyclohexane	4.96	56	8464	0.943	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	34957	5.063	ug/l #	49
37) Ethyl Acetate	4.26	43	25016	3.235	ug/l #	68
38) Carbon Tetrachloride	4.96	117	43489	6.525	ug/l #	17
41) Methacrylonitrile	4.62	41	115260	29.067	ug/l #	42
51) 4-Methyl-2-Pentanone	7.45	43	9592	1.181	ug/l	99
52) Toluene	7.62	92	44929	3.491	ug/l	100
56) Ethyl methacrylate	7.95	69	95	0.982	ug/l #	1
67) Ethyl Benzene	9.24	91	4940	0.202	ug/l #	87
76) 1,2,3-Trichloropropane	10.29	75	155062	19.931	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	155062	67.113	ug/l #	100
95) Naphthalene	13.77	128	21	1.791	ug/l #	70

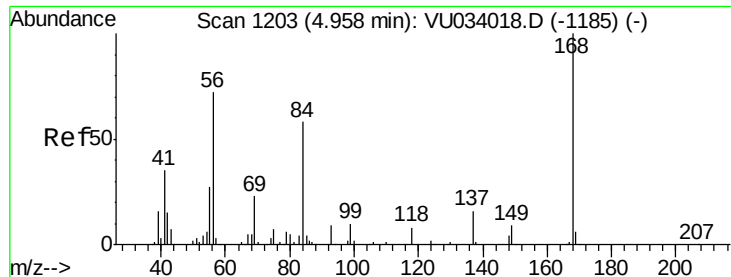
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU034079.D

Acq: 29 Aug 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

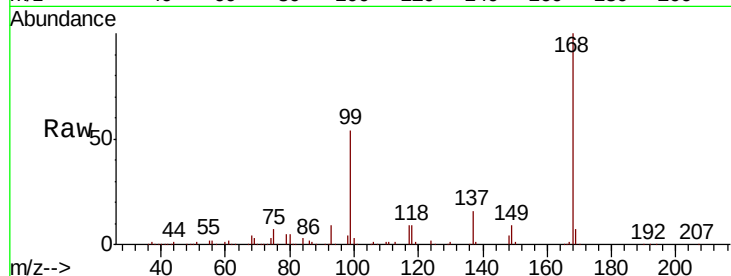
FERMENTATION-WASTE

Tgt Ion:168 Resp: 469297

Ion Ratio Lower Upper

168 100

99 54.5 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

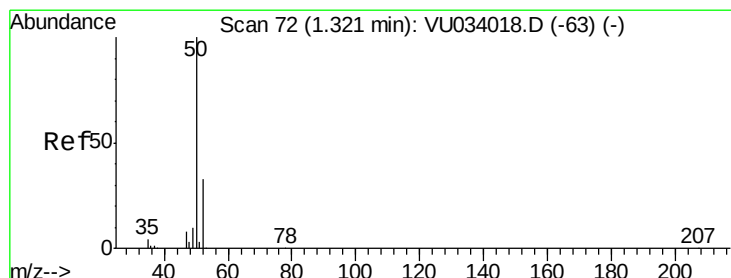
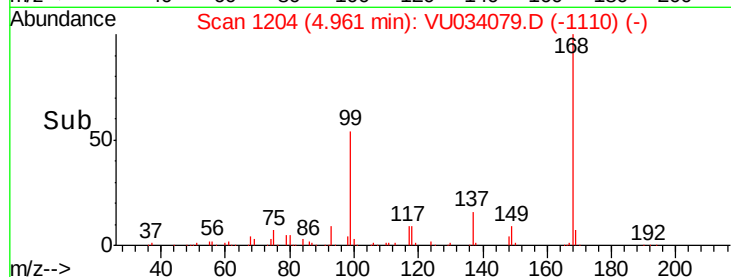
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU034079.D

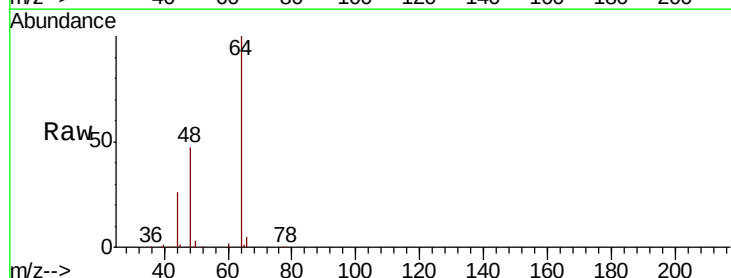
Acq: 29 Aug 2019 21:52

Tgt Ion: 50 Resp: 761

Ion Ratio Lower Upper

50 100

52 40.4 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

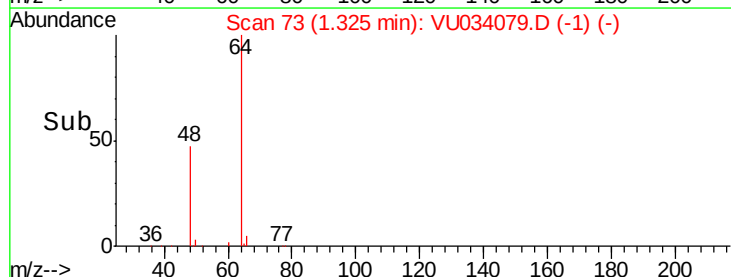
1500

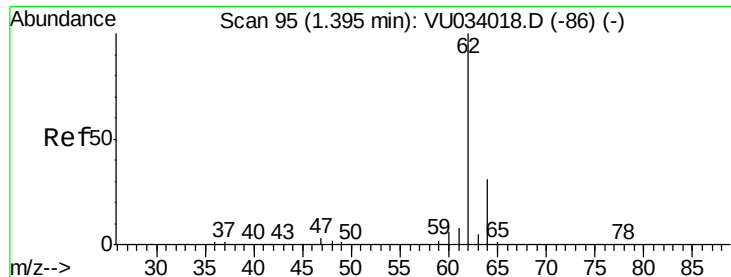
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 1.490 ug/l

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

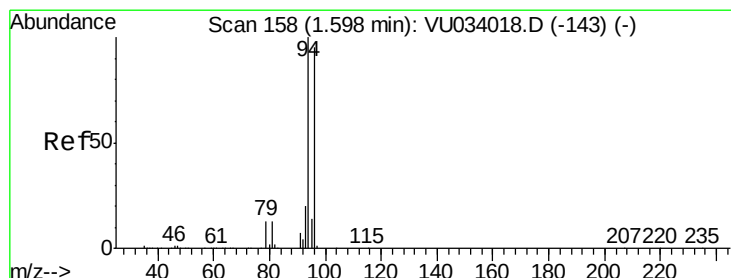
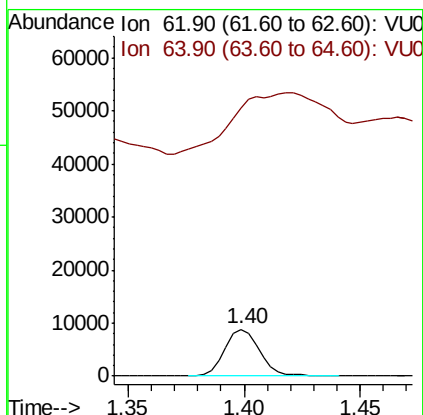
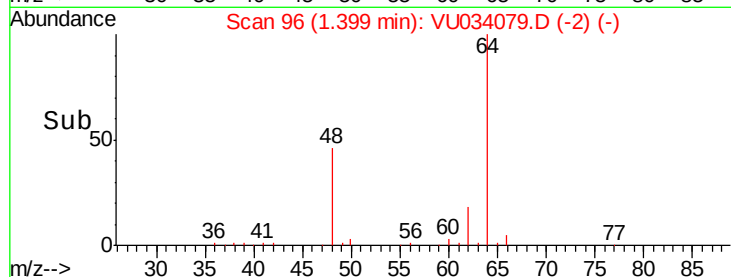
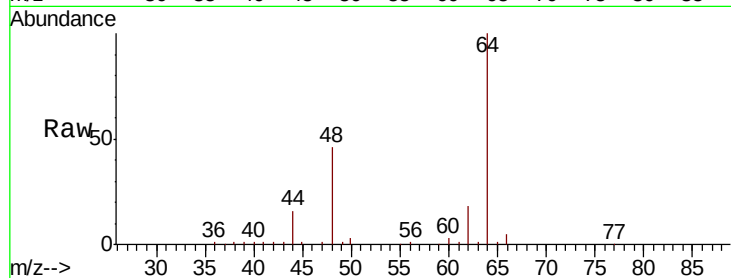
FERMENTATION-WASTE

Tgt Ion: 62 Resp: 9360

Ion Ratio Lower Upper

62 100

64 87.8 25.0 37.6#



#5

Bromomethane

Concen: Below Cal

RT: 1.58 min Scan# 153

Delta R.T. -0.02 min

Lab File: VU034079.D

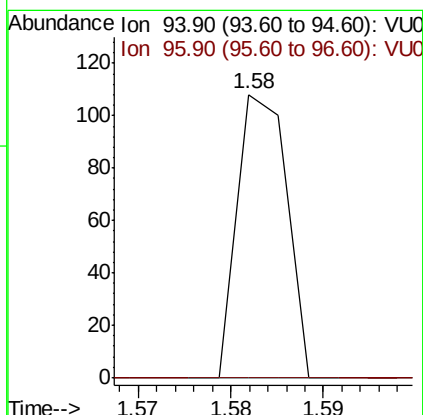
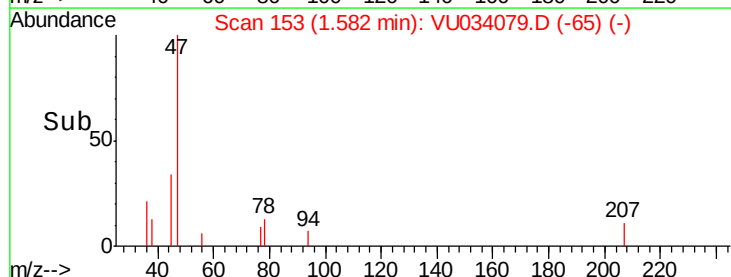
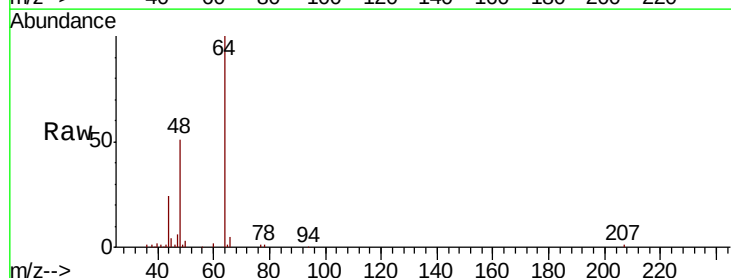
Acq: 29 Aug 2019 21:52

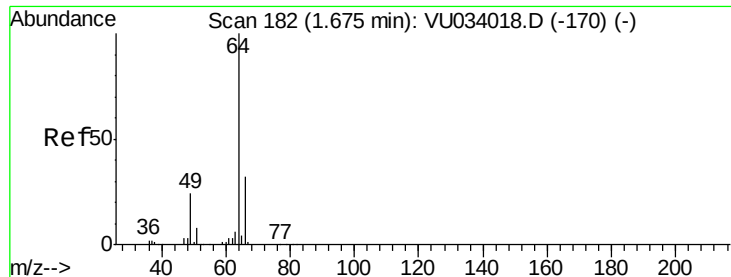
Tgt Ion: 94 Resp: 40

Ion Ratio Lower Upper

94 100

96 0.0 76.3 114.5#





#6

Chloroethane

Concen: 0.340 ug/l

RT: 1.94 min Scan# 263

Delta R.T. 0.26 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

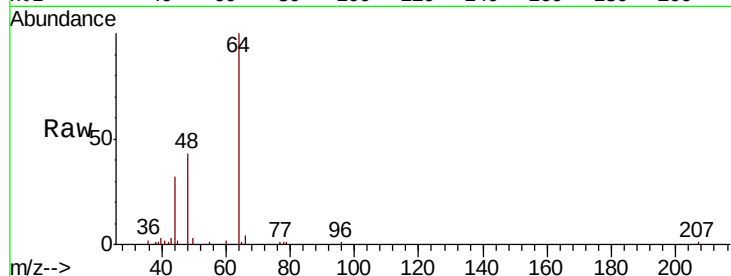
FERMENTATION-WASTE

Tgt Ion: 64 Resp: 1307

Ion Ratio Lower Upper

64 100

66 4.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU034079.D (-170) (-)

Ion 65.90 (65.60 to 66.60): VU034079.D (-170) (-)

1.94

15000

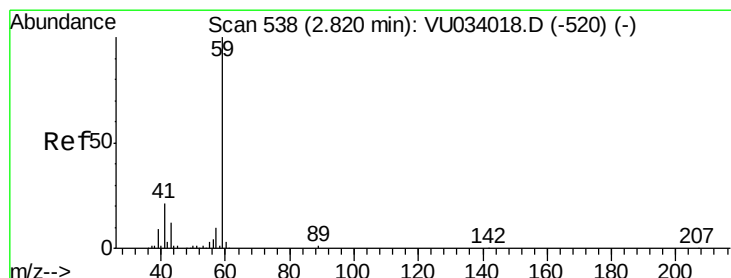
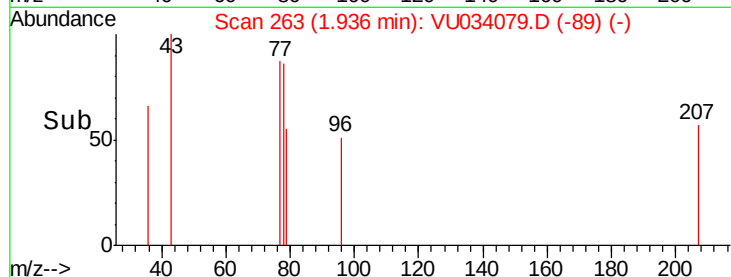
10000

5000

0

1.92 1.94 1.96

Time-->



#11

Tert butyl alcohol

Concen: 1.209 ug/l

RT: 2.81 min Scan# 535

Delta R.T. -0.01 min

Lab File: VU034079.D

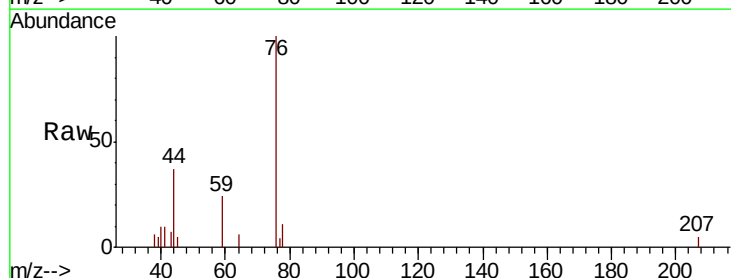
Acq: 29 Aug 2019 21:52

Tgt Ion: 59 Resp: 1677

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU034079.D (-445) (-)

Ion 57.00 (56.70 to 57.70): VU034079.D (-445) (-)

2.81

800

600

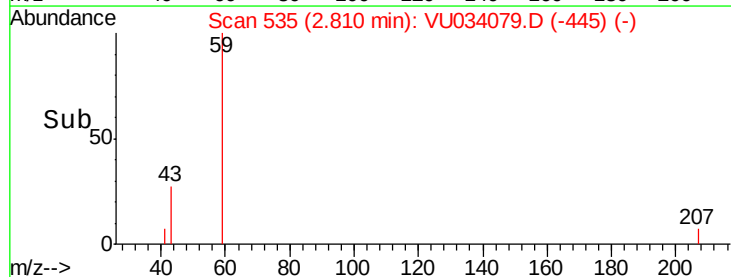
400

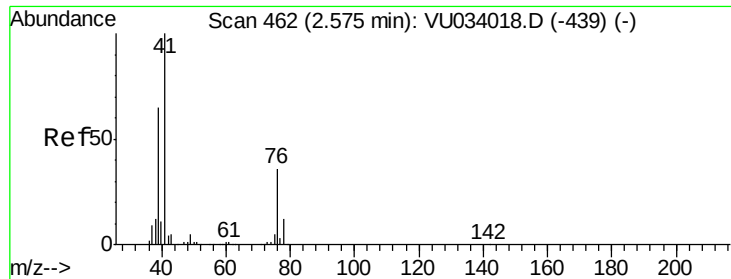
200

0

2.75 2.80 2.85

Time-->

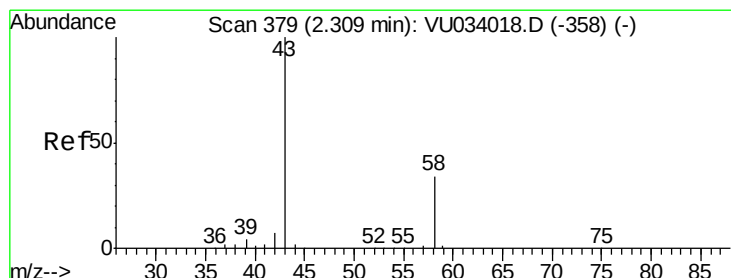
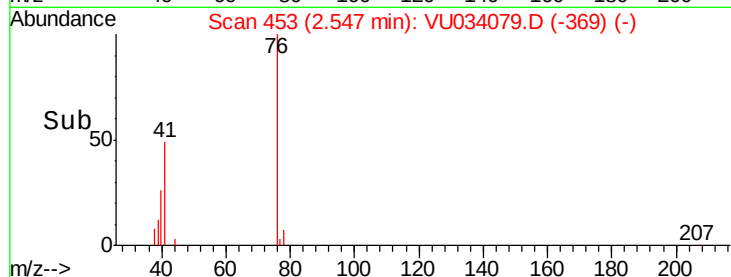
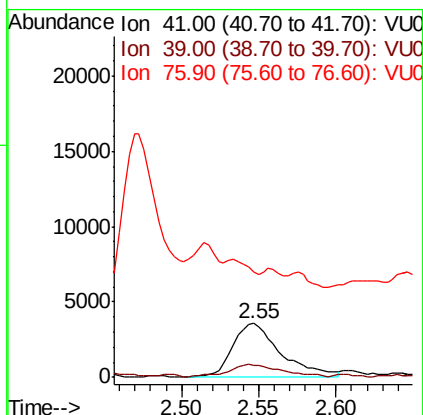
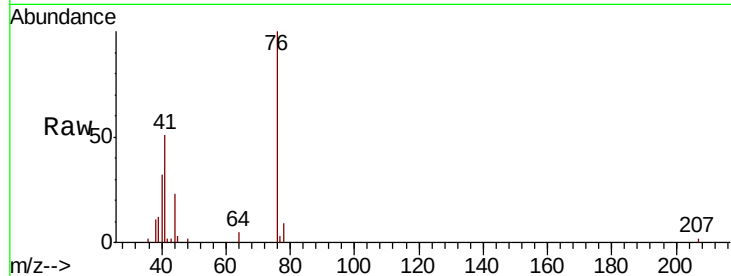




#14
 Allyl chloride
 Concen: 0.880 ug/l
 RT: 2.55 min Scan# 453
 Delta R.T. -0.03 min
 Lab File: VU034079.D
 Acq: 29 Aug 2019 21:52

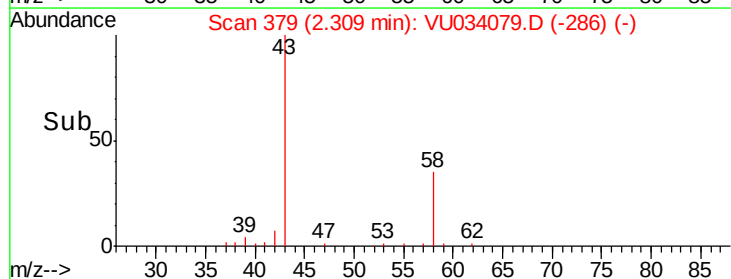
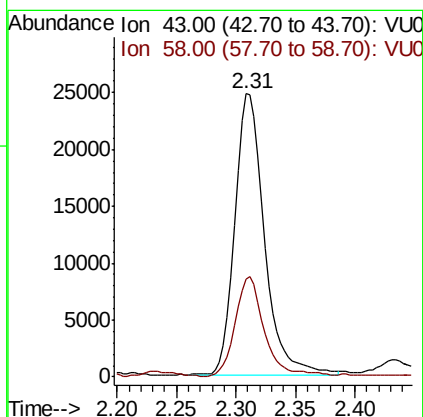
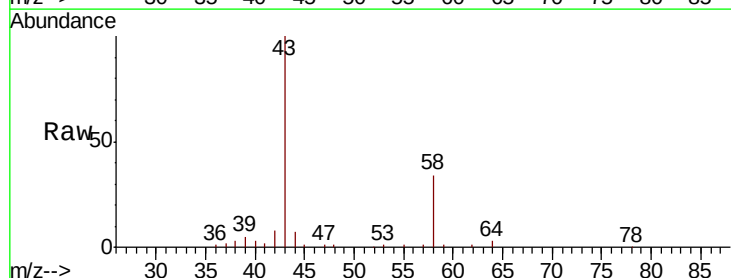
Instrument :
 MSVOA_U
 ClientSampleId :
 FERMENTATION-WASTE

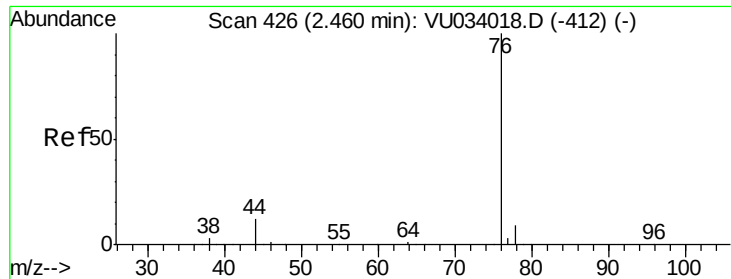
Tgt Ion: 41 Resp: 7777
 Ion Ratio Lower Upper
 41 100
 39 26.6 46.8 70.2#
 76 0.0 26.6 40.0#



#16
 Acetone
 Concen: 13.845 ug/l
 RT: 2.31 min Scan# 379
 Delta R.T. -0.00 min
 Lab File: VU034079.D
 Acq: 29 Aug 2019 21:52

Tgt Ion: 43 Resp: 42480
 Ion Ratio Lower Upper
 43 100
 58 34.1 26.8 40.2

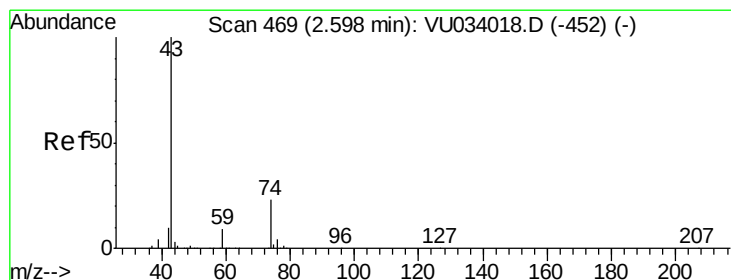
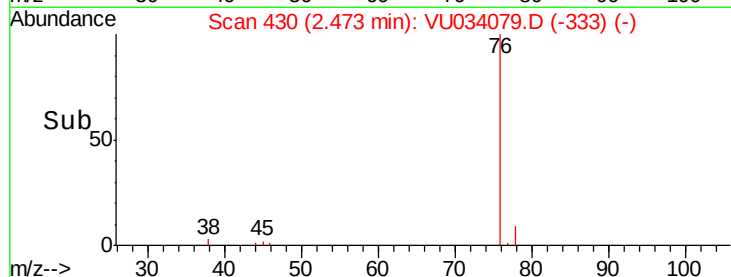
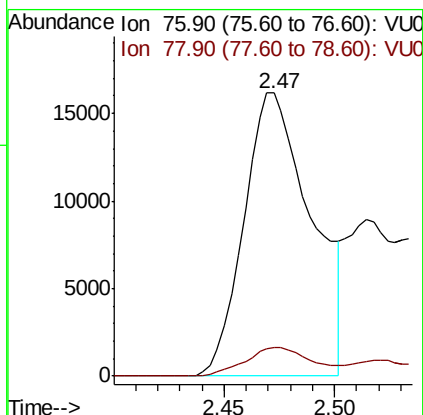
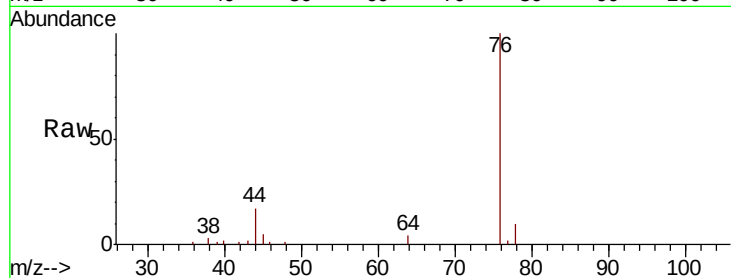




#17
Carbon Disulfide
Concen: 2.306 ug/l
RT: 2.47 min Scan# 430
Delta R.T. 0.01 min
Lab File: VU034079.D
Acq: 29 Aug 2019 21:52

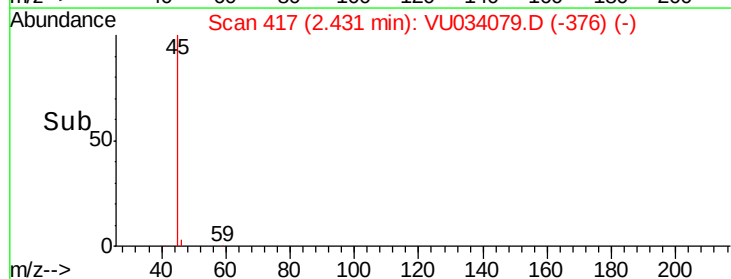
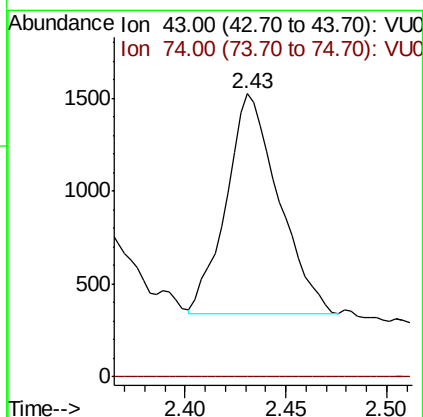
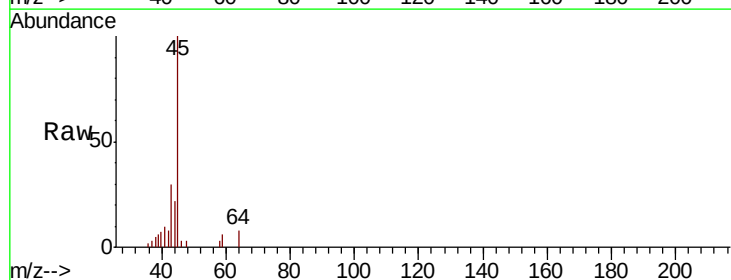
Instrument :
MSVOA_U
ClientSampleId :
FERMENTATION-WASTE

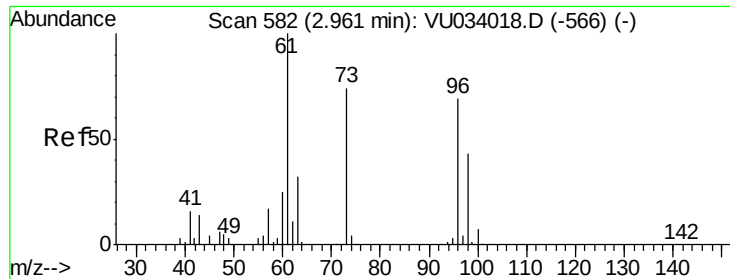
Tgt Ion: 76 Resp: 34288
Ion Ratio Lower Upper
76 100
78 10.1 7.1 10.7



#18
Methyl Acetate
Concen: 0.271 ug/l
RT: 2.43 min Scan# 417
Delta R.T. -0.17 min
Lab File: VU034079.D
Acq: 29 Aug 2019 21:52

Tgt Ion: 43 Resp: 2151
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#





#21

trans-1,2-Dichloroethene

Concen: 0.229 ug/l

RT: 2.98 min Scan# 587

Delta R.T. 0.02 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

FERMENTATION-WASTE

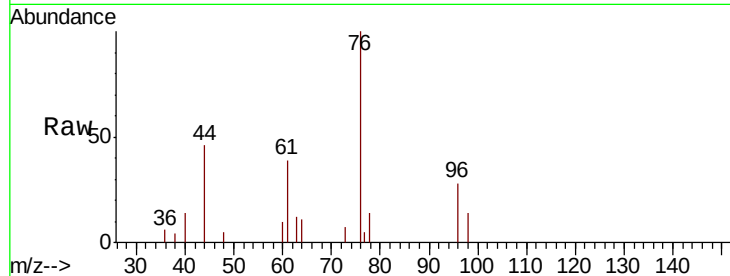
Tgt Ion: 96 Resp: 1169

Ion Ratio Lower Upper

96 100

61 138.3 115.5 173.3

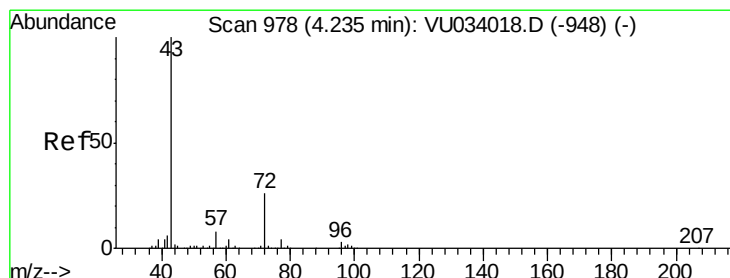
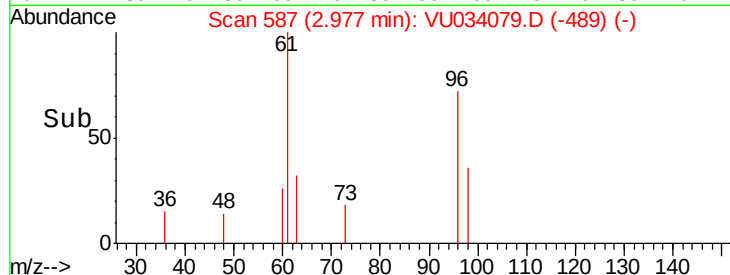
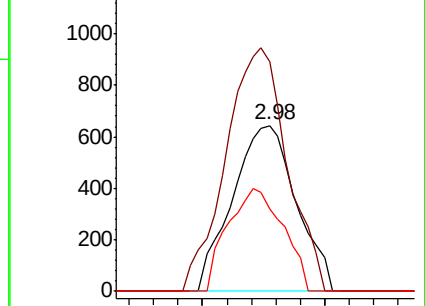
98 50.1 50.1 75.1#



Abundance Ion 95.90 (95.60 to 96.60): VU034079.D (-489) (-)

Ion 60.90 (60.60 to 61.60): VU034079.D (-489) (-)

Ion 97.90 (97.60 to 98.60): VU034079.D (-489) (-)



#25

2-Butanone

Concen: 5.860 ug/l

RT: 4.26 min Scan# 986

Delta R.T. 0.03 min

Lab File: VU034079.D

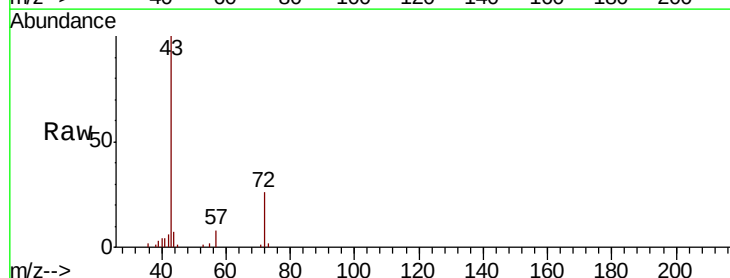
Acq: 29 Aug 2019 21:52

Tgt Ion: 43 Resp: 25016

Ion Ratio Lower Upper

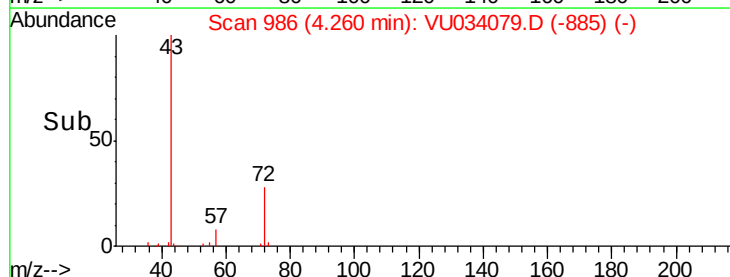
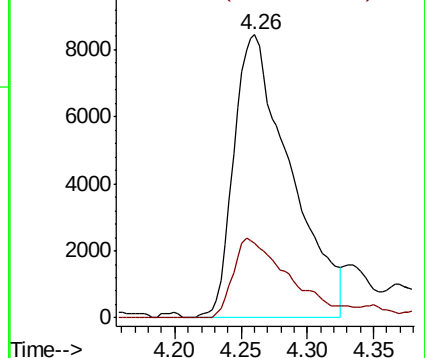
43 100

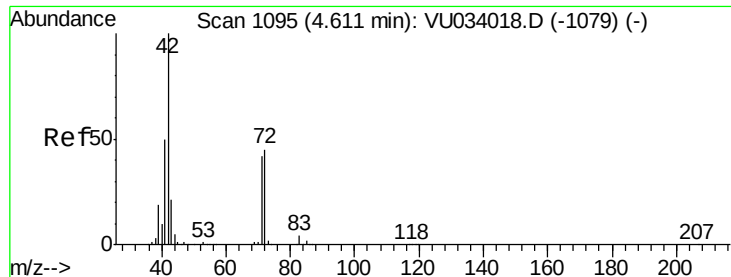
72 26.4 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VU034079.D (-885) (-)

Ion 72.00 (71.70 to 72.70): VU034079.D (-885) (-)





#29

Tetrahydrofuran

Concen: 76.105 ug/l

RT: 4.62 min Scan# 1097

Delta R.T. 0.01 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

FERMENTATION-WASTE

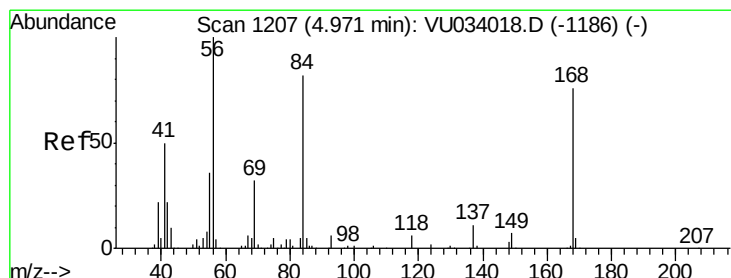
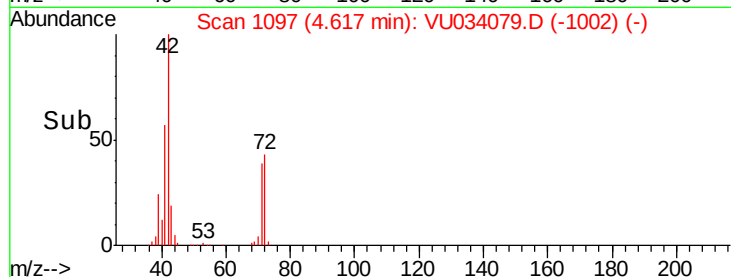
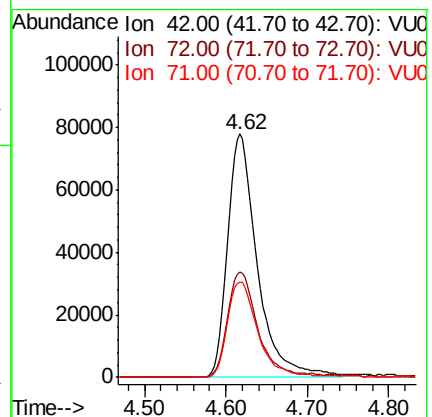
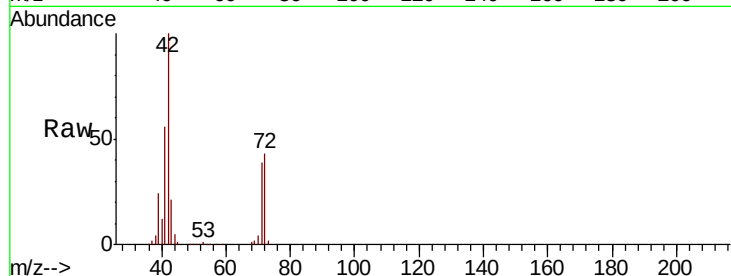
Tgt Ion: 42 Resp: 200348

Ion Ratio Lower Upper

42 100

72 43.8 35.8 53.6

71 39.5 34.0 51.0



#31

Cyclohexane

Concen: 0.943 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

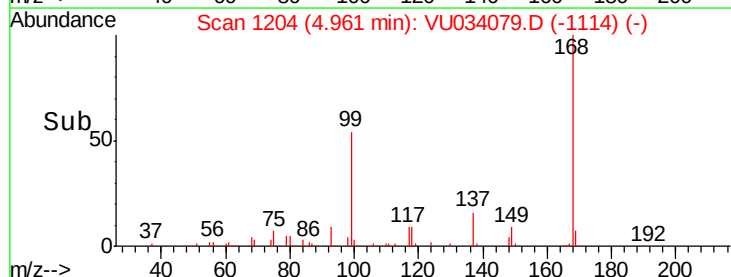
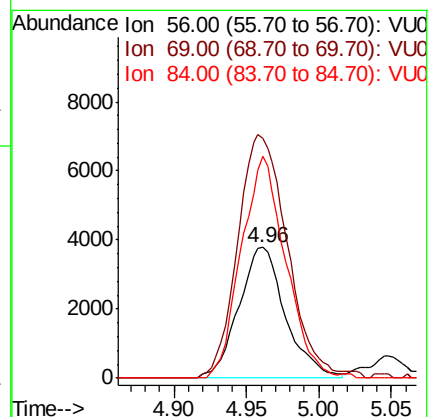
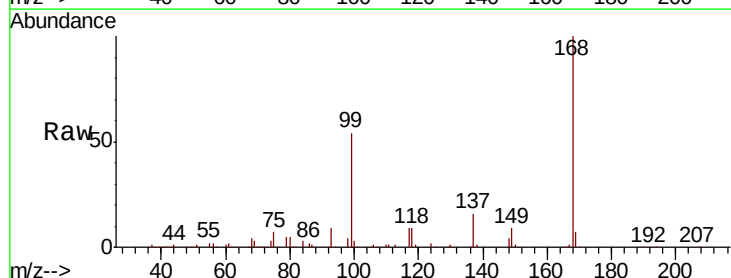
Tgt Ion: 56 Resp: 8464

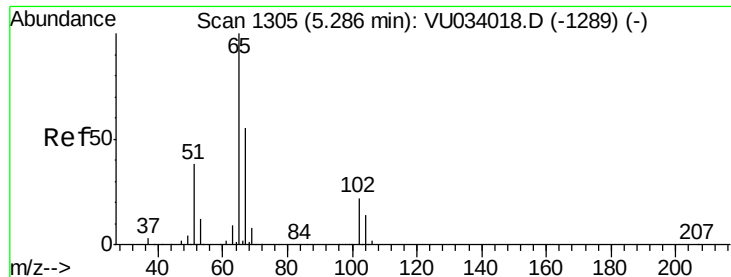
Ion Ratio Lower Upper

56 100

69 183.6 25.4 38.0#

84 169.9 65.8 98.8#

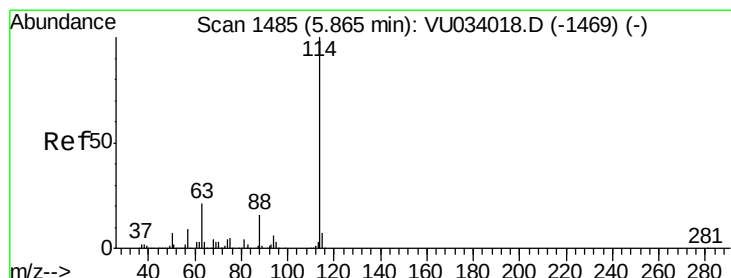
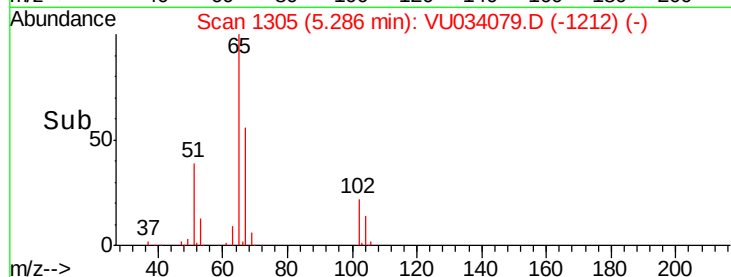
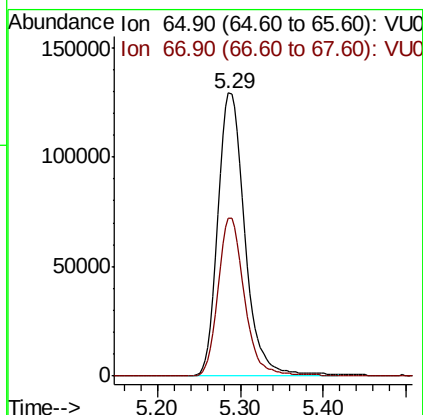
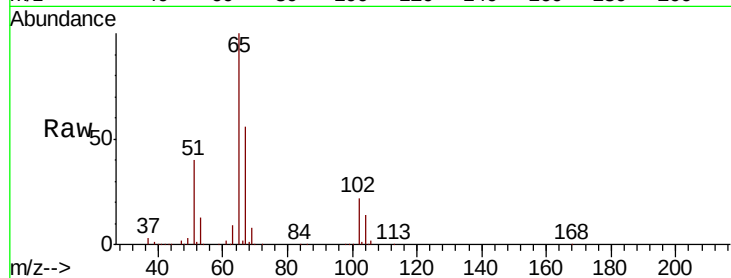




#33
 1,2-Dichloroethane-d4
 Concen: 48.643 ug/l
 RT: 5.29 min Scan# 1305
 Delta R.T. -0.00 min
 Lab File: VU034079.D
 Acq: 29 Aug 2019 21:52

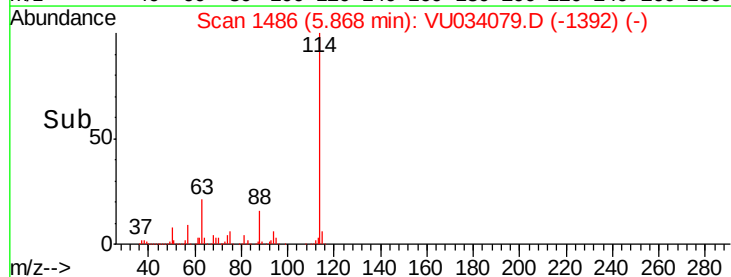
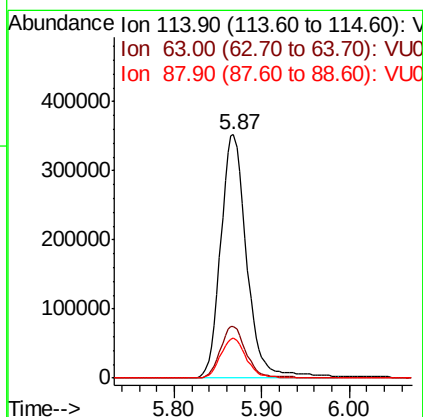
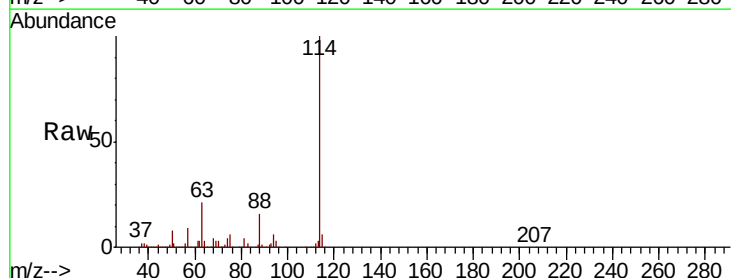
Instrument :
 MSVOA_U
 ClientSampleId :
 FERMENTATION-WASTE

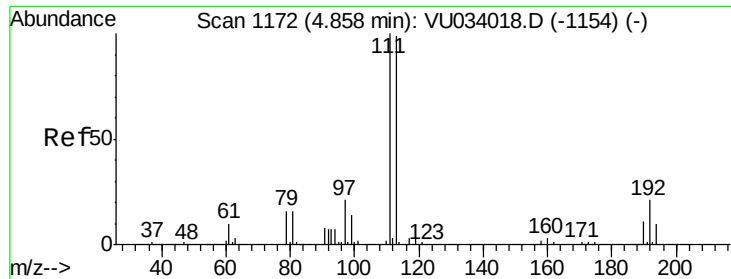
Tgt Ion: 65 Resp: 292506
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034079.D
 Acq: 29 Aug 2019 21:52

Tgt Ion: 114 Resp: 729968
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 42.0
 88 16.3 0.0 32.0





#35

Dibromofluoromethane

Concen: 47.899 ug/l

RT: 4.86 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

FERMENTATION-WASTE

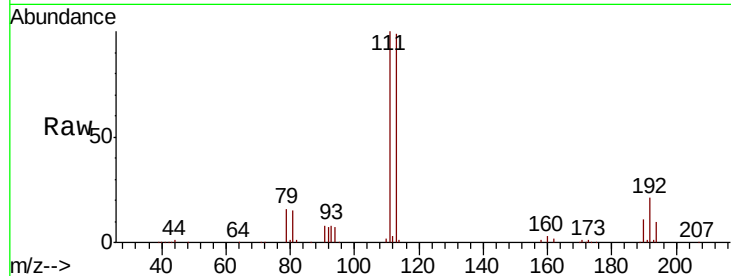
Tgt Ion:113 Resp: 242510

Ion Ratio Lower Upper

113 100

111 102.1 81.7 122.5

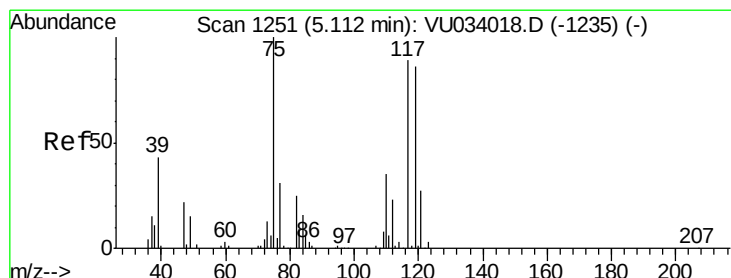
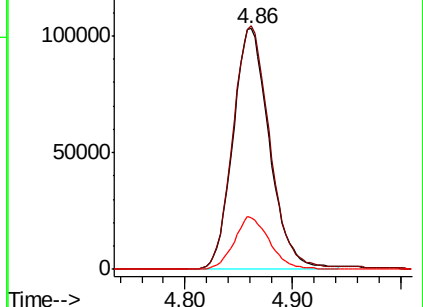
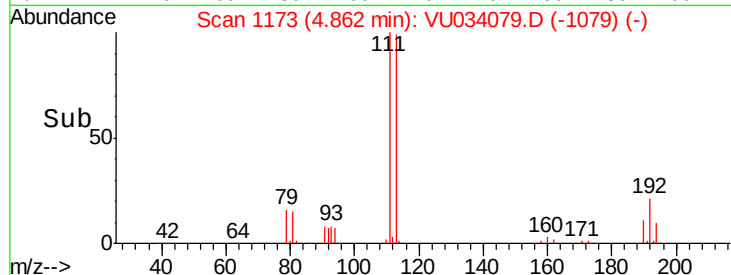
192 21.4 17.1 25.7



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: 5.063 ug/l

RT: 4.96 min Scan# 1203

Delta R.T. -0.15 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

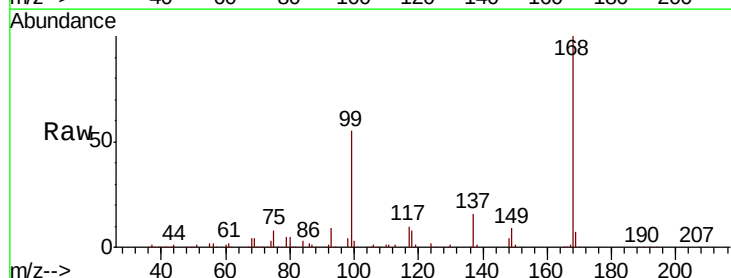
Tgt Ion: 75 Resp: 34957

Ion Ratio Lower Upper

75 100

110 8.6 17.8 53.5#

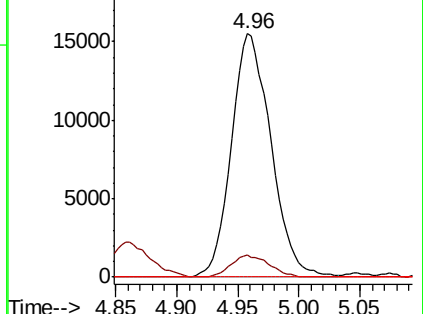
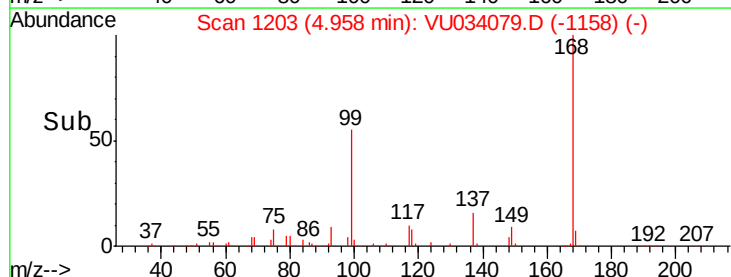
77 0.0 25.0 37.4#

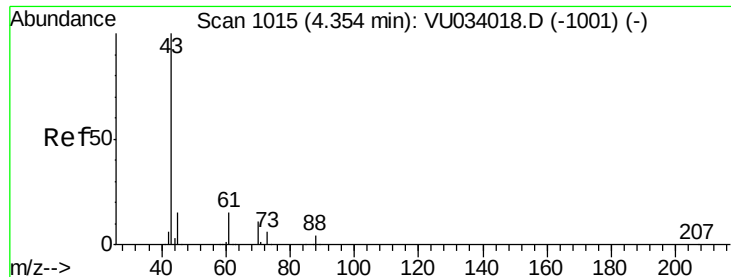


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

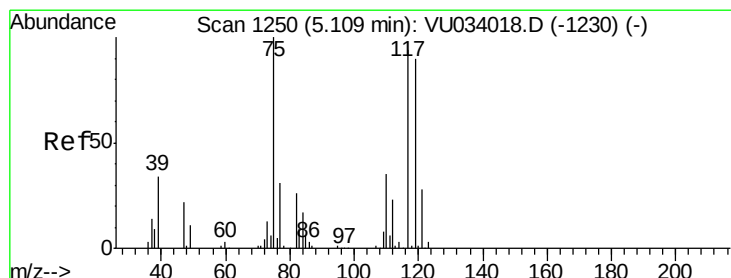
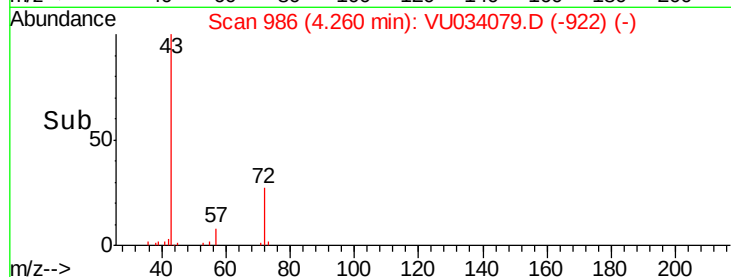
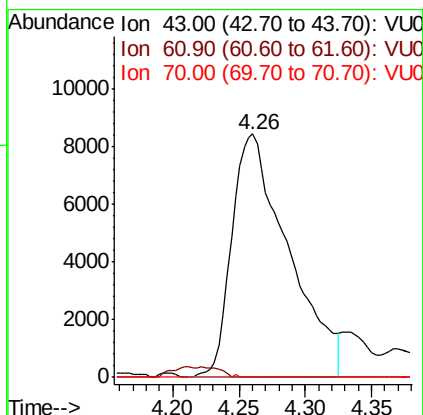
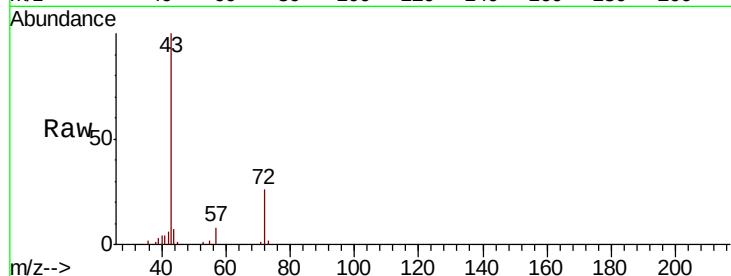




#37
Ethyl Acetate
Concen: 3.235 ug/l
RT: 4.26 min Scan# 986
Delta R.T. -0.09 min
Lab File: VU034079.D
Acq: 29 Aug 2019 21:52

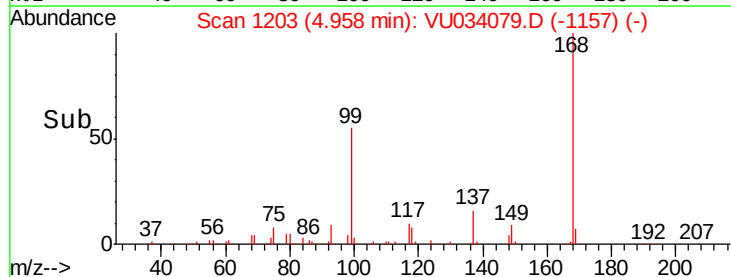
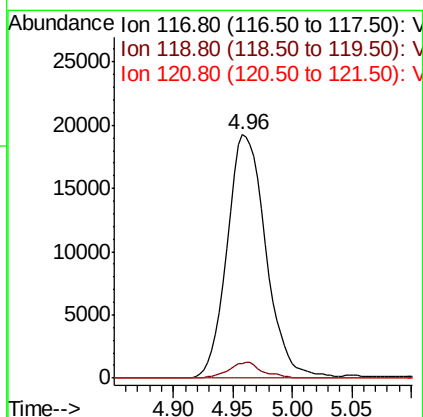
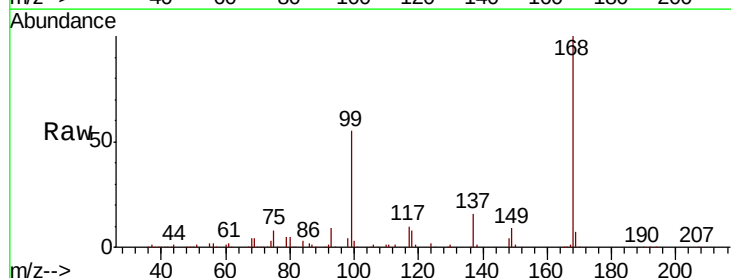
Instrument :
MSVOA_U
ClientSampleId :
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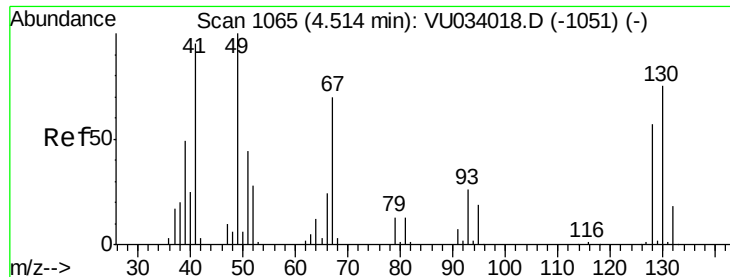
Tgt Ion: 43 Resp: 25016
Ion Ratio Lower Upper
43 100
61 0.0 11.5 17.3#
70 0.0 8.6 12.8#



#38
Carbon Tetrachloride
Concen: 6.525 ug/l
RT: 4.96 min Scan# 1203
Delta R.T. -0.15 min
Lab File: VU034079.D
Acq: 29 Aug 2019 21:52

Tgt Ion: 117 Resp: 43489
Ion Ratio Lower Upper
117 100
119 6.1 77.0 115.4#
121 0.0 23.9 35.9#

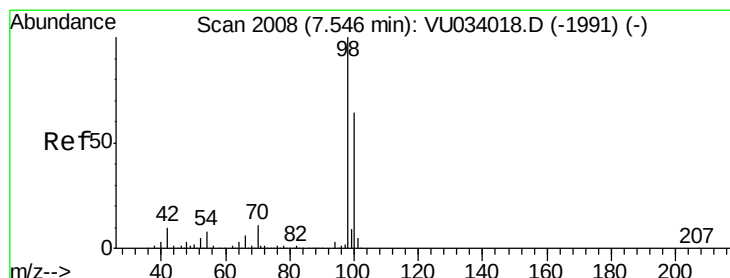
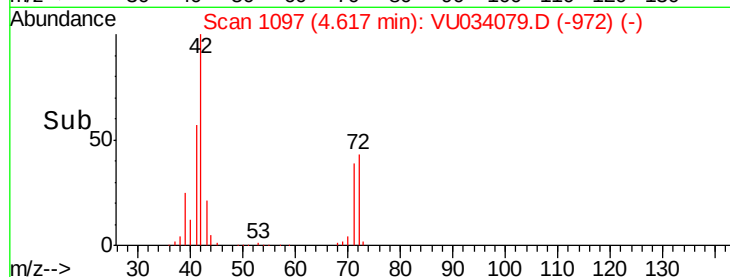
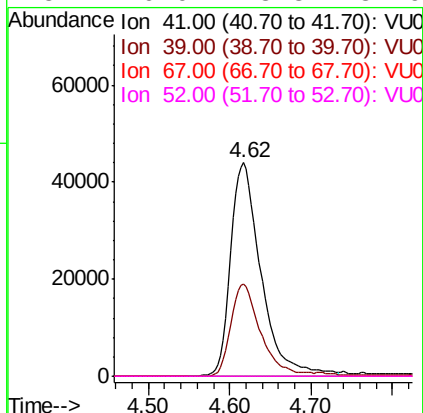
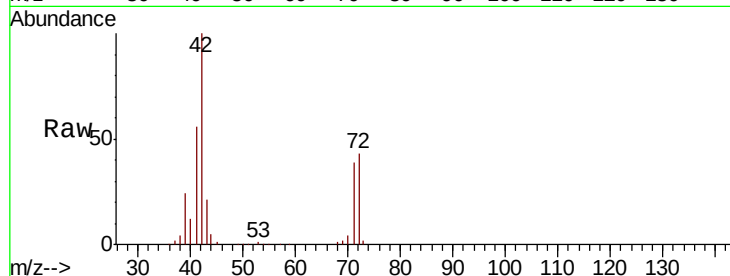




#41
Methacrylonitrile
Concen: 29.067 ug/l
RT: 4.62 min Scan# 1097
Delta R.T. 0.10 min
Lab File: VU034079.D
Acq: 29 Aug 2019 21:52

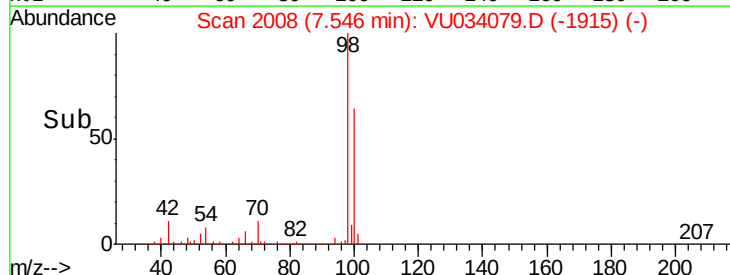
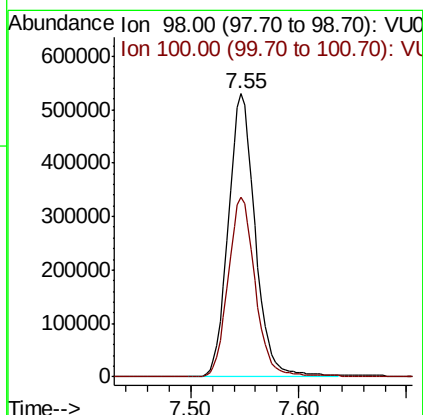
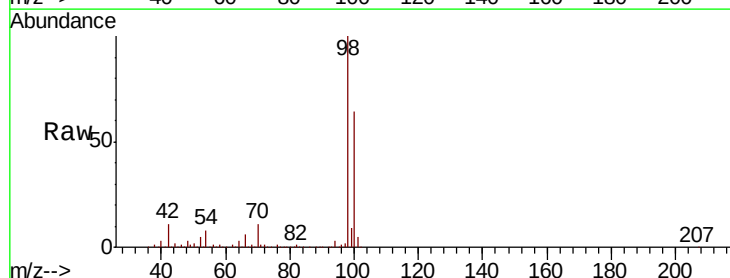
Instrument :
MSVOA_U
ClientSampleId :
FERMENTATION-WASTE

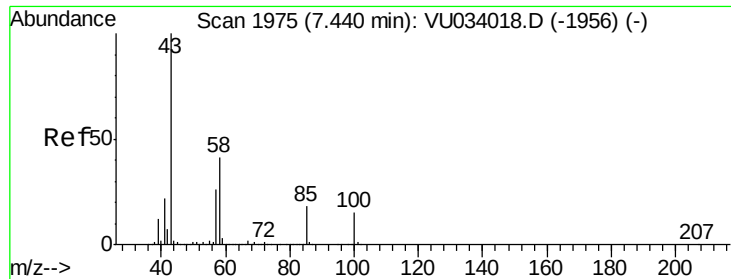
Tgt Ion: 41 Resp: 115260
Ion Ratio Lower Upper
41 100
39 41.6 42.1 63.1#
67 0.0 61.0 91.4#
52 0.0 23.3 34.9#



#50
Toluene-d8
Concen: 48.651 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034079.D
Acq: 29 Aug 2019 21:52

Tgt Ion: 98 Resp: 922317
Ion Ratio Lower Upper
98 100
100 64.2 50.3 75.5

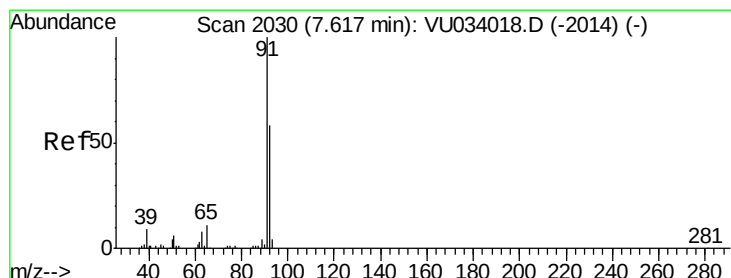
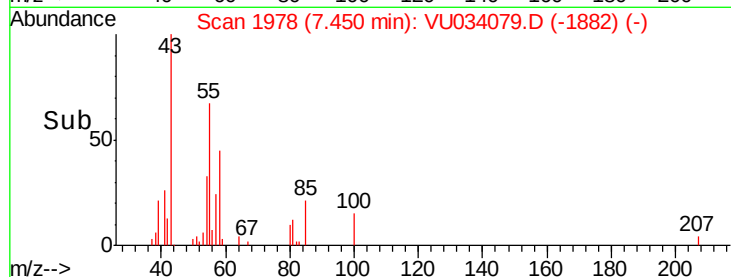
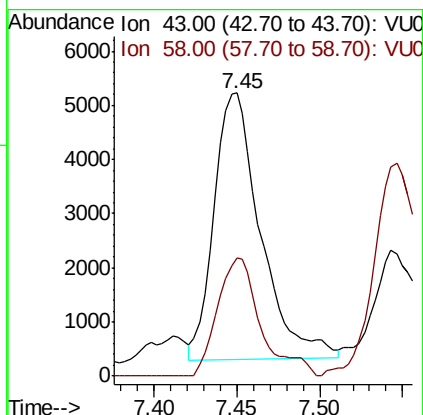
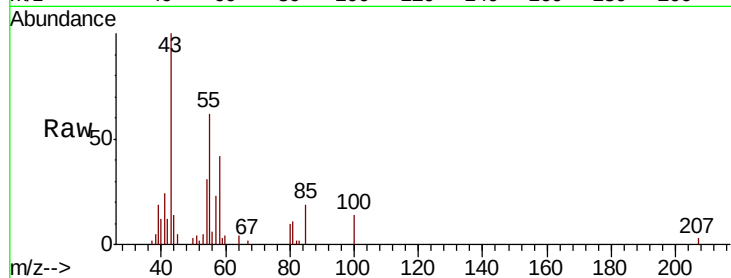




#51
 4-Methyl-2-Pentanone
 Concen: 1.181 ug/l
 RT: 7.45 min Scan# 1978
 Delta R.T. 0.01 min
 Lab File: VU034079.D
 Acq: 29 Aug 2019 21:52

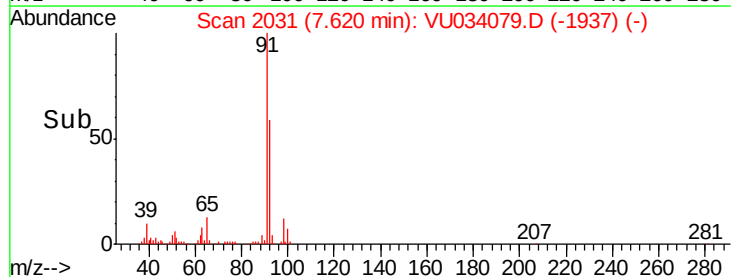
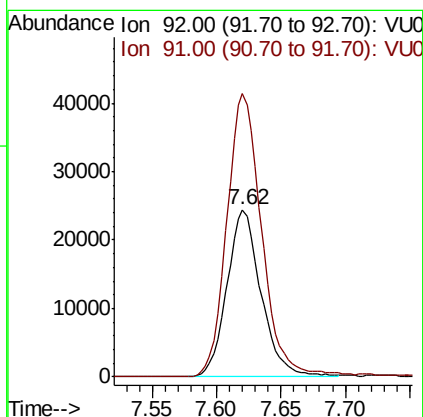
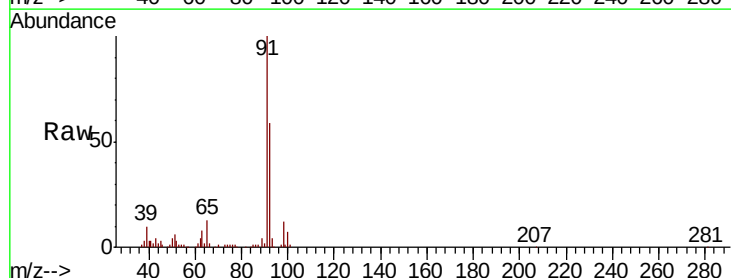
Instrument :
 MSVOA_U
 ClientSampleId :
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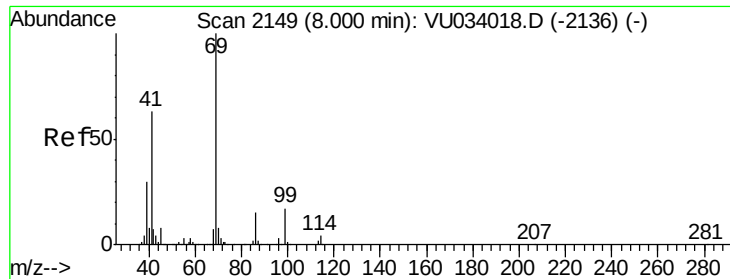
Tgt Ion: 43 Resp: 9592
 Ion Ratio Lower Upper
 43 100
 58 41.2 32.2 48.4



#52
 Toluene
 Concen: 3.491 ug/l
 RT: 7.62 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: VU034079.D
 Acq: 29 Aug 2019 21:52

Tgt Ion: 92 Resp: 44929
 Ion Ratio Lower Upper
 92 100
 91 173.1 138.3 207.5





#56

Ethyl methacrylate

Concen: 0.982 ug/l

RT: 7.95 min Scan# 2134

Delta R.T. -0.05 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

FERMENTATION-WASTE

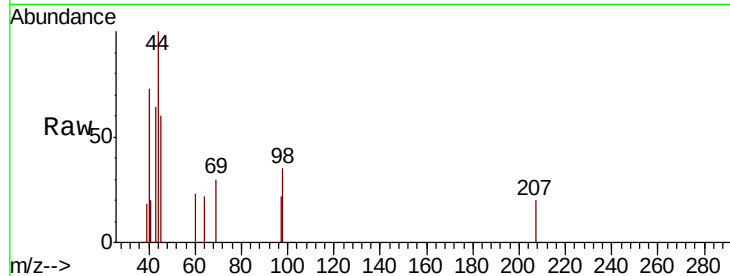
Tgt Ion: 69 Resp: 95

Ion Ratio Lower Upper

69 100

41 228.4 50.7 76.1#

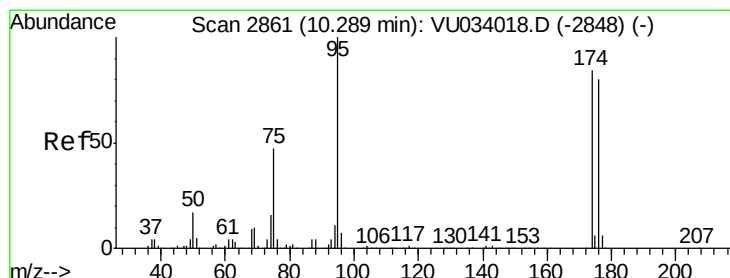
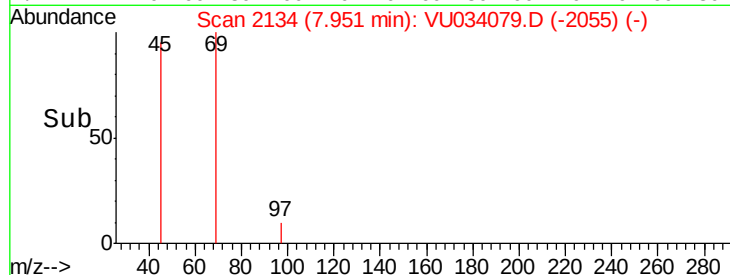
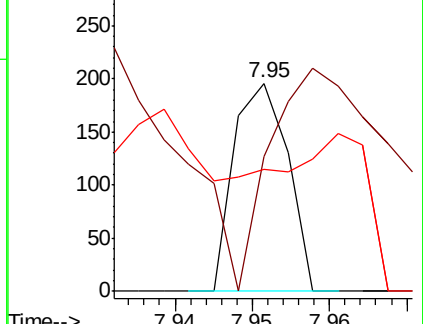
39 83.2 24.2 36.2#



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



#62

4-Bromofluorobenzene

Concen: 43.993 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

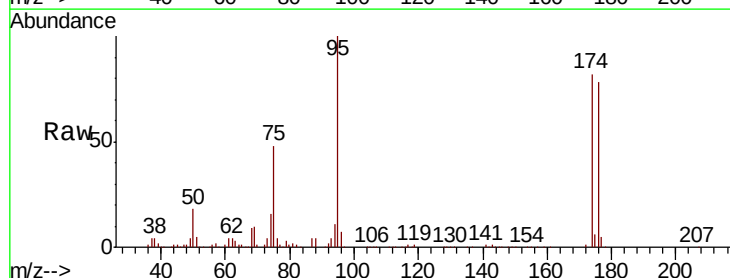
Tgt Ion: 95 Resp: 324421

Ion Ratio Lower Upper

95 100

174 84.0 0.0 168.8

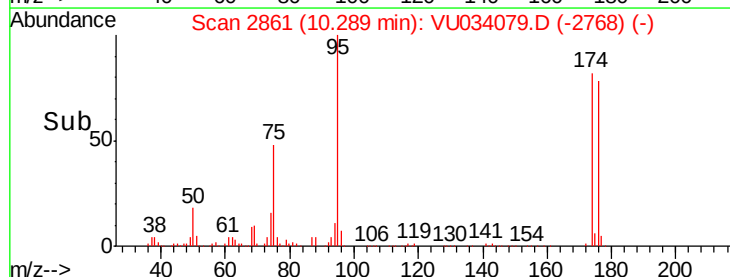
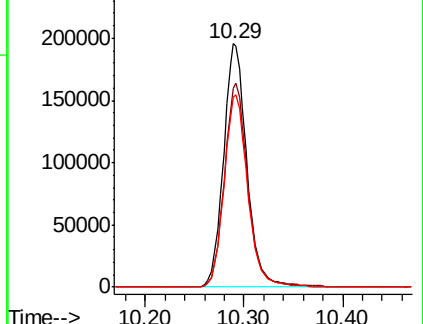
176 80.1 0.0 161.8

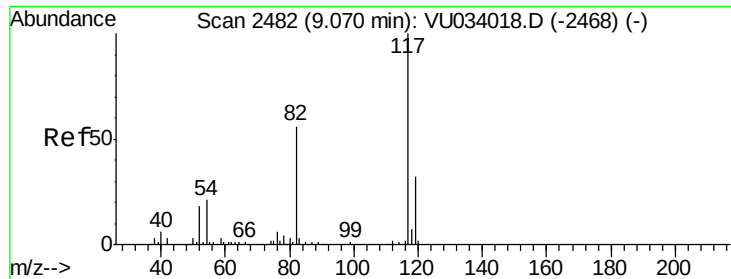


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

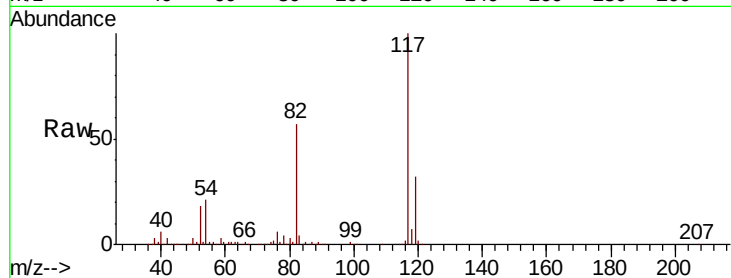




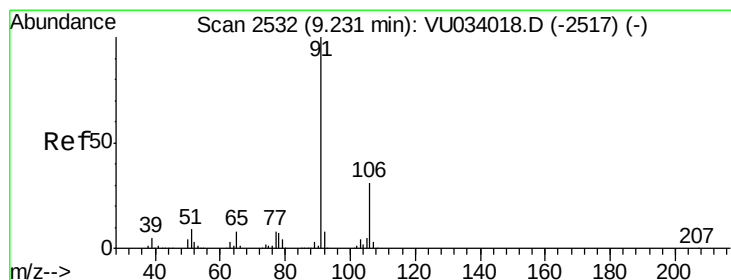
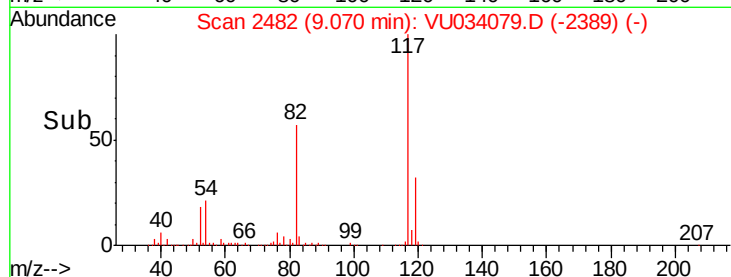
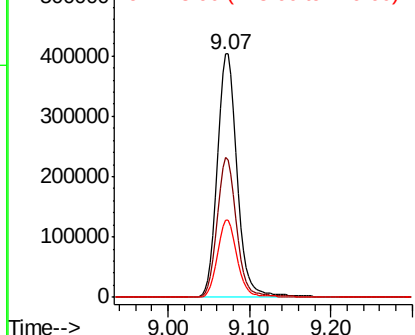
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034079.D
Acq: 29 Aug 2019 21:52

Instrument :
MSVOA_U
ClientSampleId :
FERMENTATION-WASTE

Tgt Ion:117 Resp: 700811
Ion Ratio Lower Upper
117 100
82 57.5 45.1 67.7
119 31.6 25.4 38.0

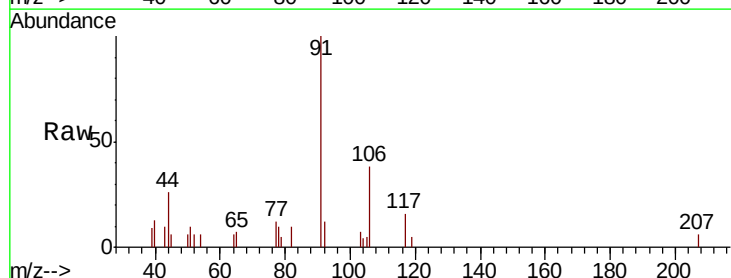


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

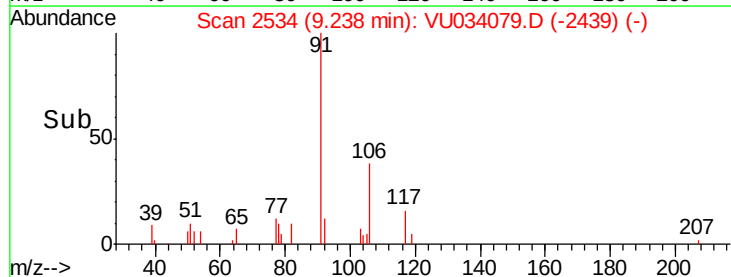
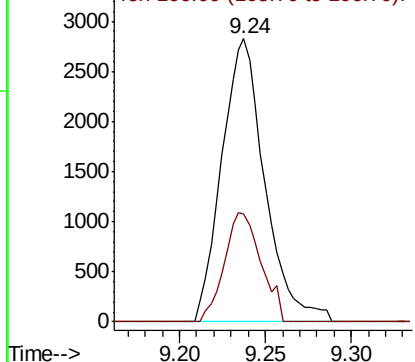


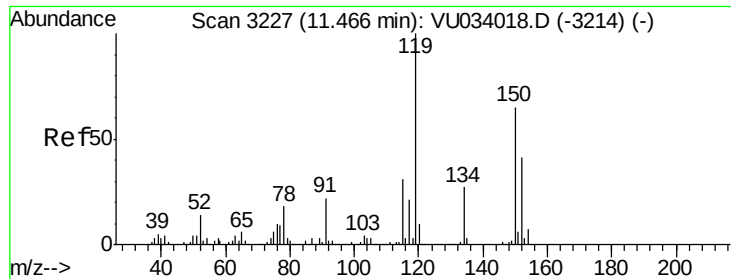
#67
Ethyl Benzene
Concen: 0.202 ug/l
RT: 9.24 min Scan# 2534
Delta R.T. 0.01 min
Lab File: VU034079.D
Acq: 29 Aug 2019 21:52

Tgt Ion: 91 Resp: 4940
Ion Ratio Lower Upper
91 100
106 38.3 24.9 37.3#



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 106.00 (105.70 to 106.70): V

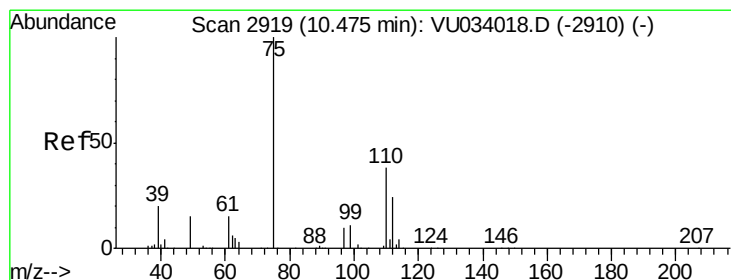
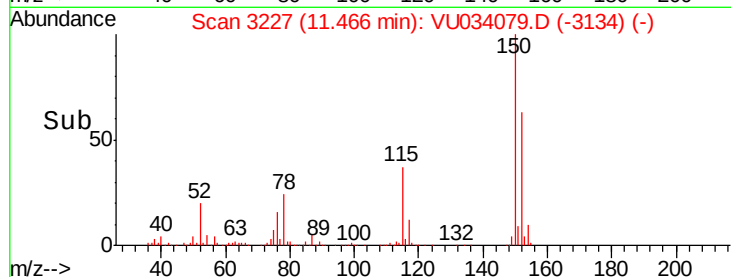
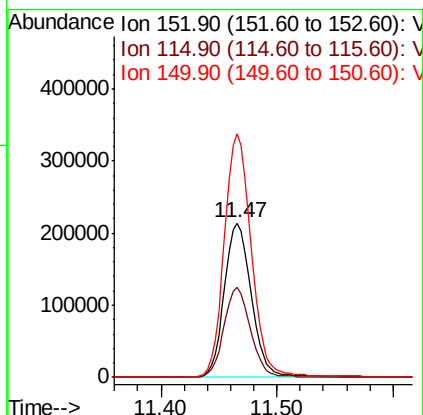
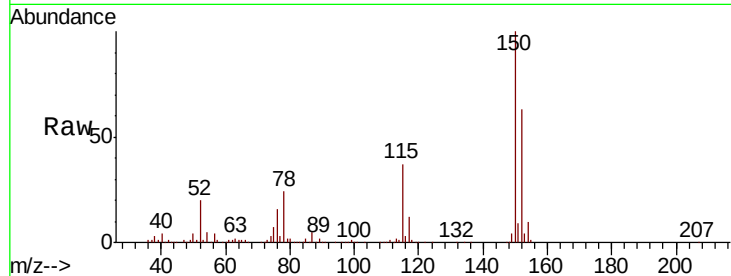




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.47 min Scan# 3227
 Delta R.T. -0.00 min
 Lab File: VU034079.D
 Acq: 29 Aug 2019 21:52

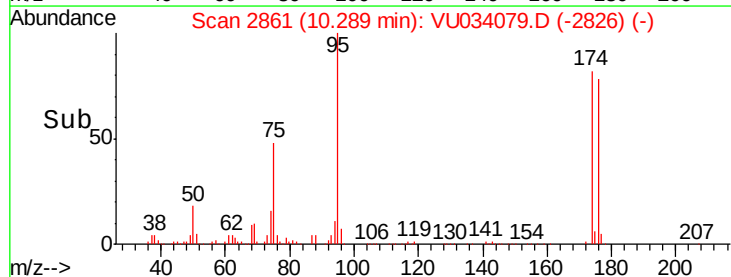
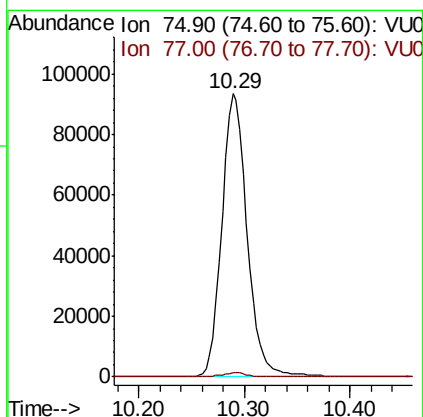
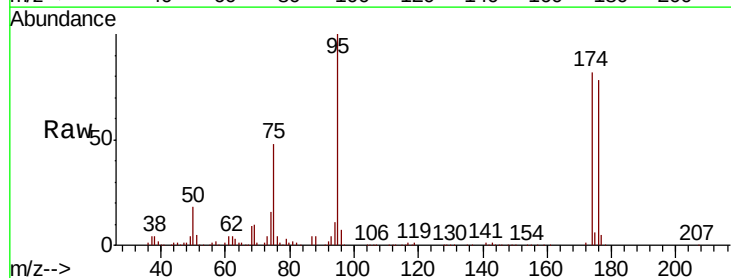
Instrument :
 MSVOA_U
 ClientSampleId :
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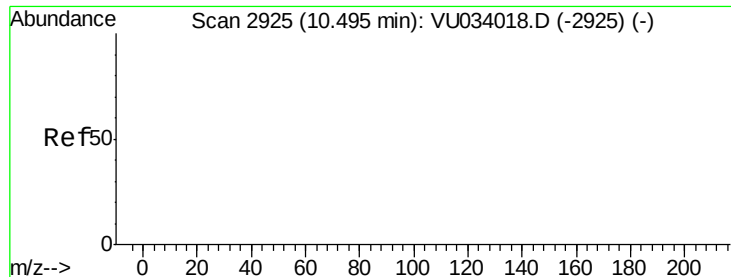
Tgt Ion:152 Resp: 345186
 Ion Ratio Lower Upper
 152 100
 115 57.7 41.1 123.3
 150 157.3 0.0 348.8



#76
 1,2,3-Trichloropropane
 Concen: 19.931 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. -0.19 min
 Lab File: VU034079.D
 Acq: 29 Aug 2019 21:52

Tgt Ion: 75 Resp: 155062
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.1 60.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 67.113 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.21 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

Instrument :

MSVOA_U

ClientSampleId :

FERMENTATION-WASTE

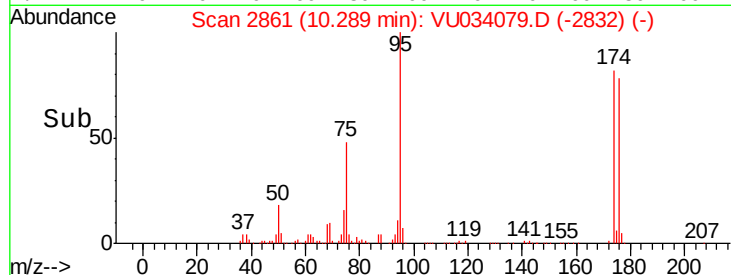
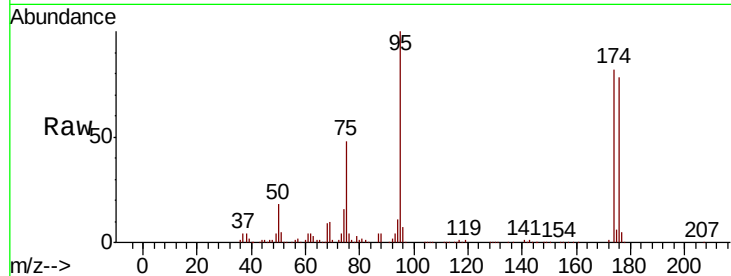
Tgt Ion: 75 Resp: 155062

Ion Ratio Lower Upper

75 100

53 0.2 0.0 0.0#

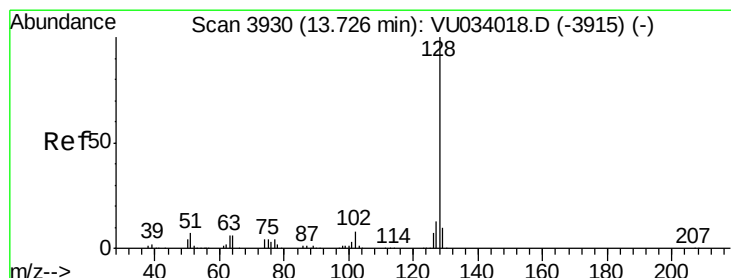
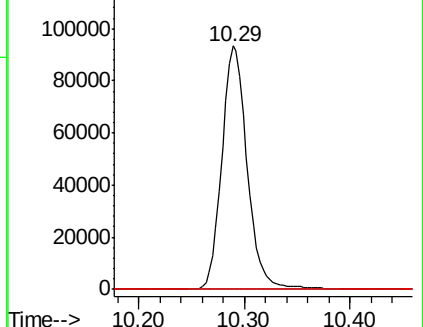
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU034079.D (-2832) (-)

Ion 53.00 (52.70 to 53.70): VU034079.D (-2832) (-)

Ion 88.90 (88.60 to 89.60): VU034079.D (-2832) (-)



#95

Naphthalene

Concen: 1.791 ug/l

RT: 13.77 min Scan# 3945

Delta R.T. 0.05 min

Lab File: VU034079.D

Acq: 29 Aug 2019 21:52

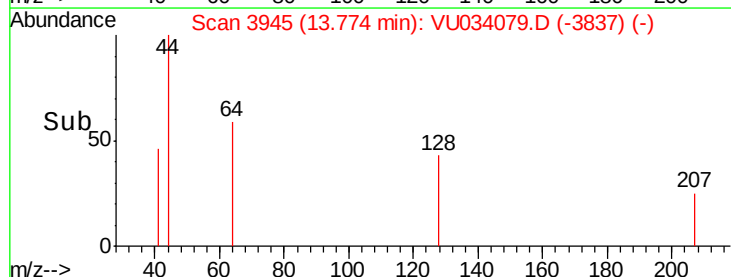
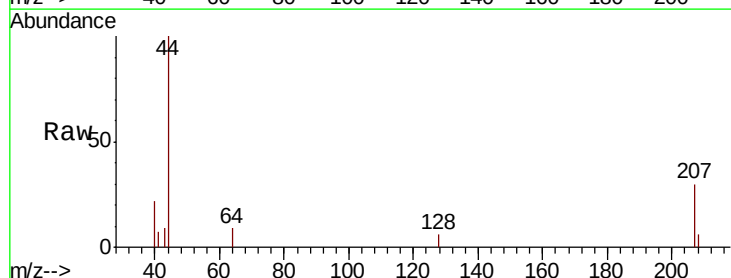
Tgt Ion: 128 Resp: 21

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): VU034079.D (-3837) (-)

Ion 127.00 (126.70 to 127.70): VU034079.D (-3837) (-)

Ion 129.00 (128.70 to 129.70): VU034079.D (-3837) (-)

