

Data File : VU033986.D
Acq On : 27 Aug 2019 20:41
Operator : JC/SP
Sample : K4516-22
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T1-S-B2-(2.5)

Quant Time: Aug 28 04:07:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082819W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 28 02:42:03 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	392154	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.86	114	574526	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	544652	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.47	152	246896	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	204375	46.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.82%	
35) Dibromofluoromethane	4.86	113	181377	46.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.94%	
50) Toluene-d8	7.55	98	712093	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
62) 4-Bromofluorobenzene	10.29	95	235005	43.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.02%	

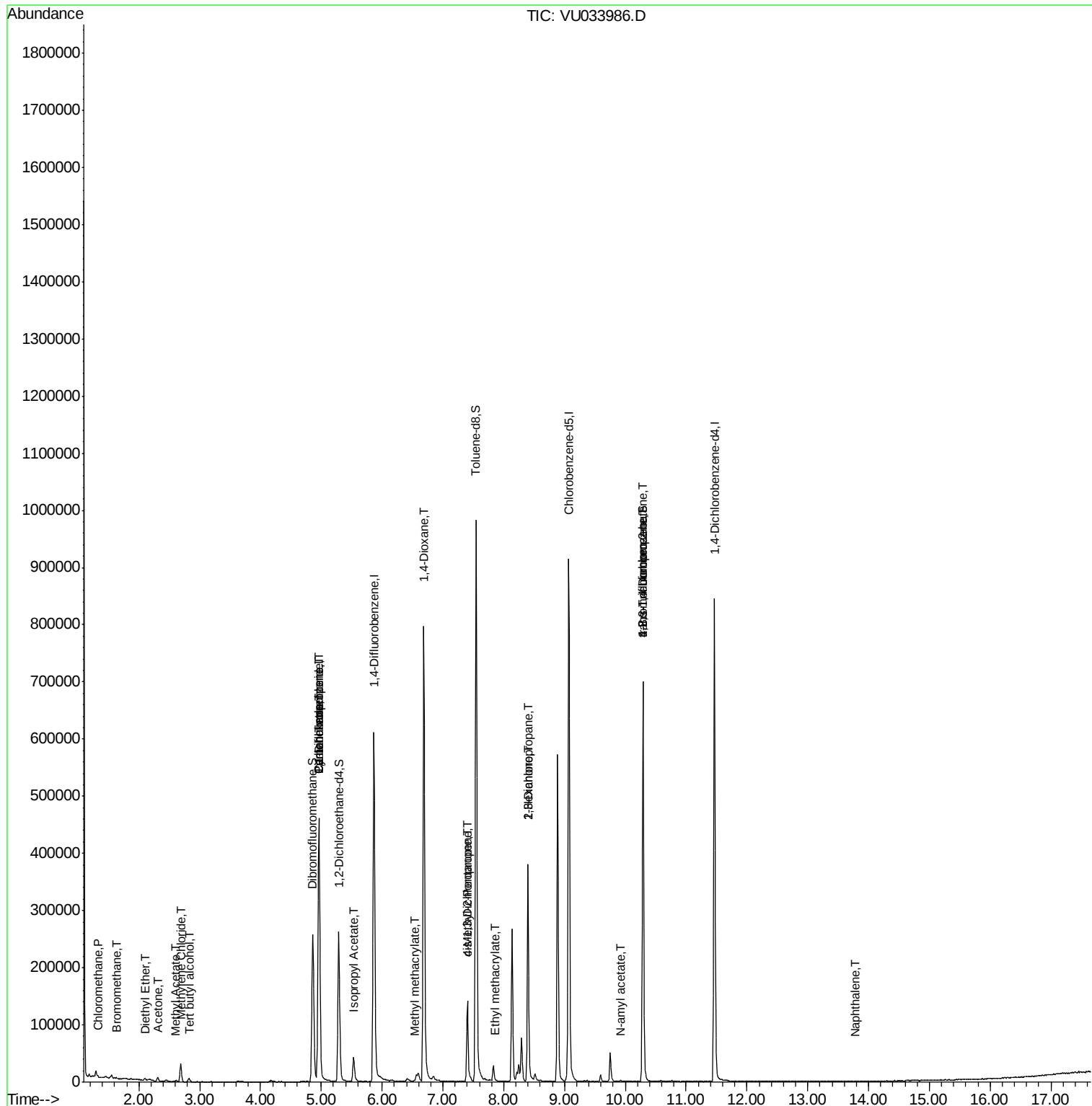
Target Compounds						Qvalue
3) Chloromethane	1.32	50	1952	1.360	ug/l #	85
5) Bromomethane	1.63	94	1326	0.554	ug/l	81
8) Diethyl Ether	2.09	74	493	0.251	ug/l #	36
11) Tert butyl alcohol	2.83	59	2954	2.618	ug/l #	85
16) Acetone	2.31	43	7690	3.688	ug/l	98
18) Methyl Acetate	2.61	43	3200	0.623	ug/l	97
20) Methylene Chloride	2.69	84	14717	3.326	ug/l	97
31) Cyclohexane	4.96	56	6138	0.956	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	25041	4.759	ug/l #	49
38) Carbon Tetrachloride	4.96	117	34292	6.395	ug/l #	16
43) Isopropyl Acetate	5.53	43	49119	6.070	ug/l	100
48) Methyl methacrylate	6.53	41	3500	0.910	ug/l #	11
49) 1,4-Dioxane	6.68	88	47	0.445	ug/l #	1
51) 4-Methyl-2-Pentanone	7.40	43	47363	8.489	ug/l #	45
54) cis-1,3-Dichloropropene	7.40	75	27344	4.219	ug/l #	63
56) Ethyl methacrylate	7.87	69	104	2.530	ug/l #	29
57) 1,3-Dichloropropane	8.40	76	4281	0.630	ug/l #	43
59) 2-Hexanone	8.40	43	49918	11.639	ug/l #	52
74) N-amyl acetate	9.92	43	1390	0.233	ug/l #	40
76) 1,2,3-Trichloropropane	10.29	75	109426	22.244	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	109426	63.711	ug/l #	100
95) Naphthalene	13.78	128	169	2.094	ug/l #	70

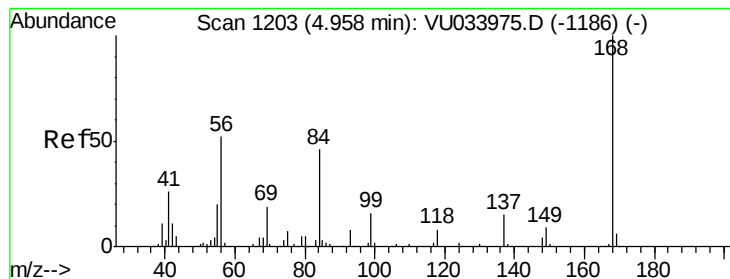
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU033986.D

Acq: 27 Aug 2019 20:41

Instrument :

MSVOA_U

ClientSampleId :

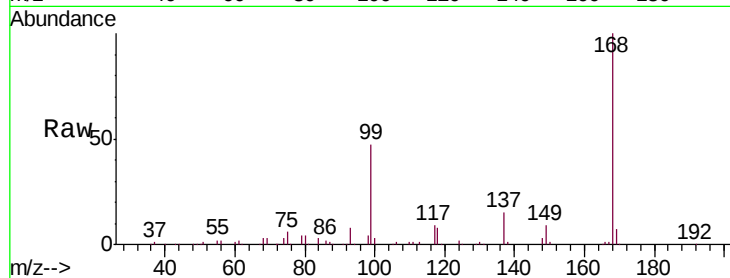
T1-S-B2-(2.5)

Tgt Ion:168 Resp: 392154

Ion Ratio Lower Upper

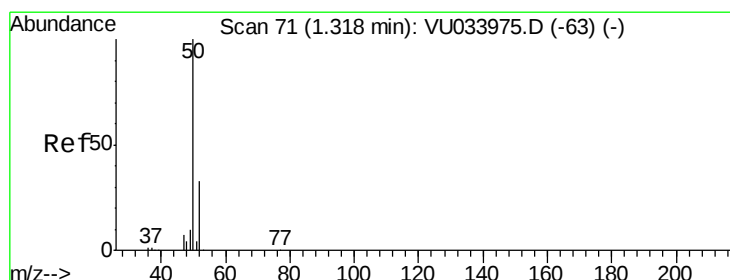
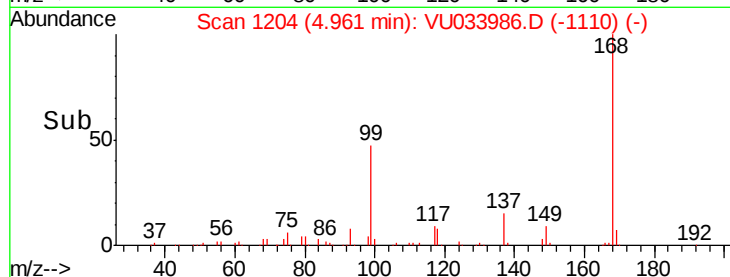
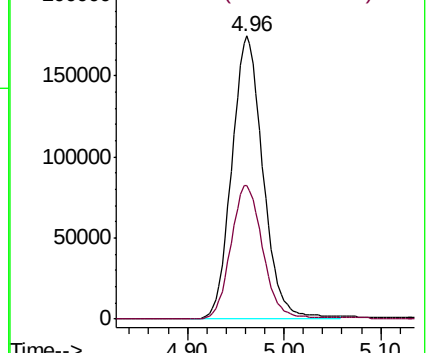
168 100

99 47.4 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VU033975.D

Ion 98.90 (98.60 to 99.60): VU033975.D



#3

Chloromethane

Concen: 1.360 ug/l

RT: 1.32 min Scan# 73

Delta R.T. 0.01 min

Lab File: VU033986.D

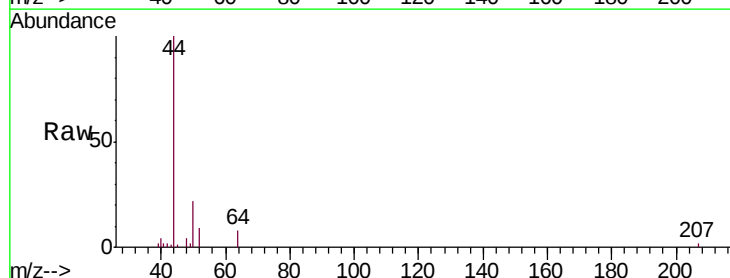
Acq: 27 Aug 2019 20:41

Tgt Ion: 50 Resp: 1952

Ion Ratio Lower Upper

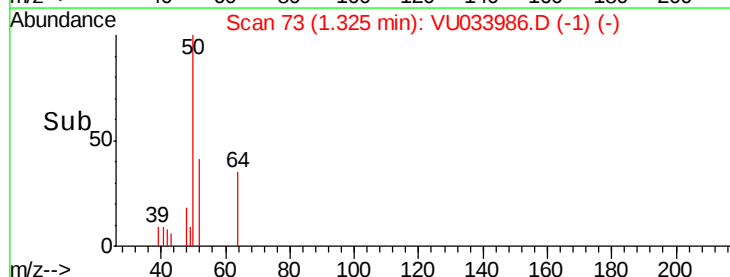
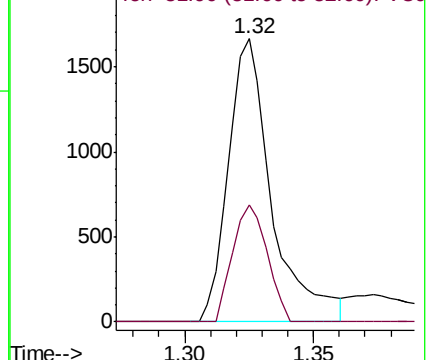
50 100

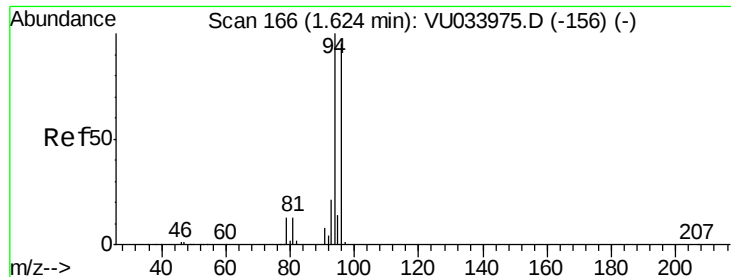
52 41.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VU033975.D

Ion 51.90 (51.60 to 52.60): VU033975.D





#5

Bromomethane

Concen: 0.554 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

Instrument :

MSVOA_U

ClientSampleId :

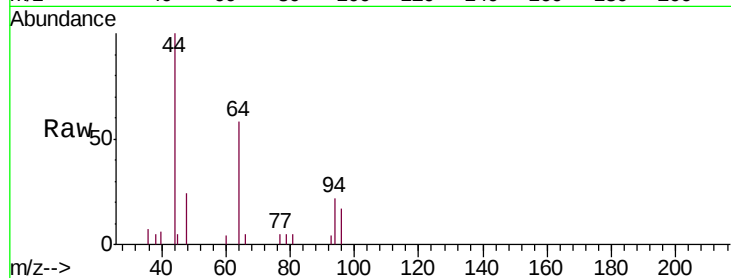
T1-S-B2-(2.5)

Tgt Ion: 94 Resp: 1326

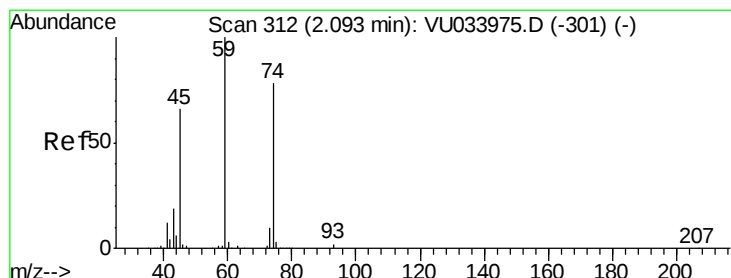
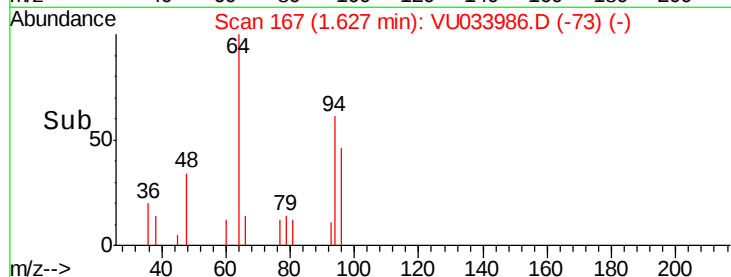
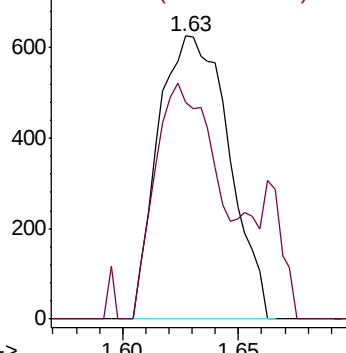
Ion Ratio Lower Upper

94 100

96 76.7 76.3 114.5



Abundance Ion 93.90 (93.60 to 94.60): VU033975.D (-156) (-)



#8

Diethyl Ether

Concen: 0.251 ug/l

RT: 2.09 min Scan# 311

Delta R.T. -0.00 min

Lab File: VU033986.D

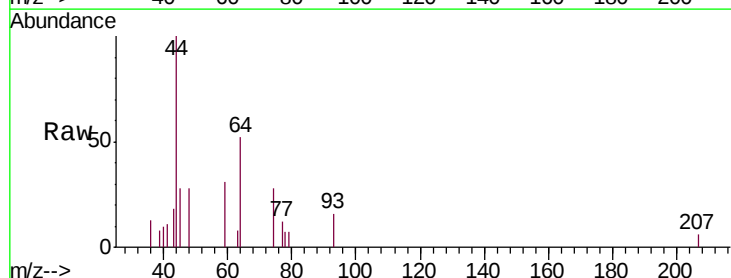
Acq: 27 Aug 2019 20:41

Tgt Ion: 74 Resp: 493

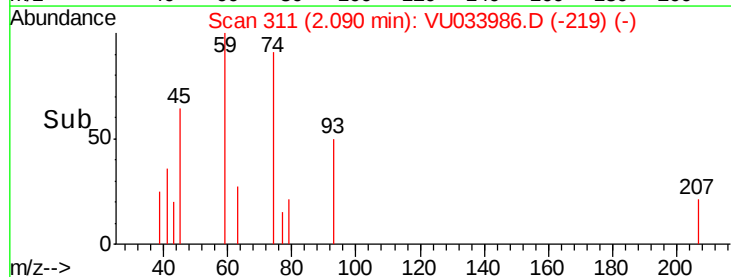
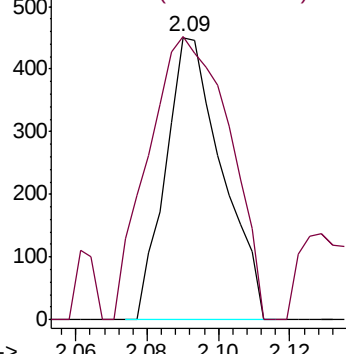
Ion Ratio Lower Upper

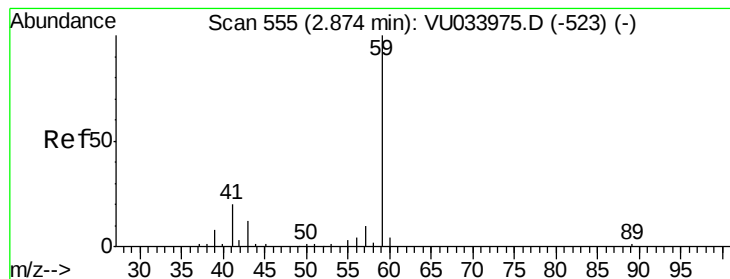
74 100

45 144.4 42.8 128.4#



Abundance Ion 74.00 (73.70 to 74.70): VU033975.D (-301) (-)



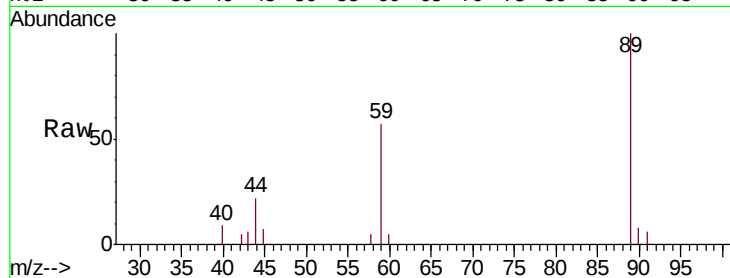


#11

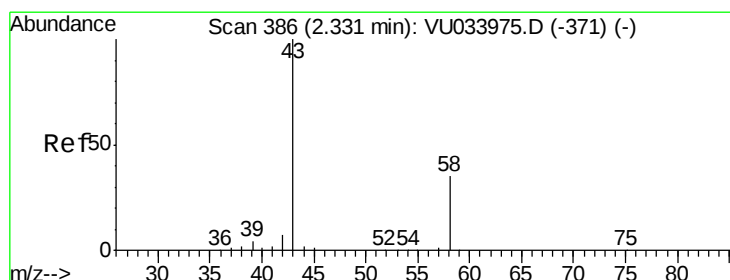
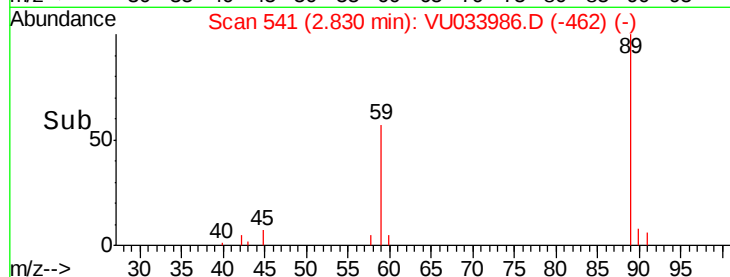
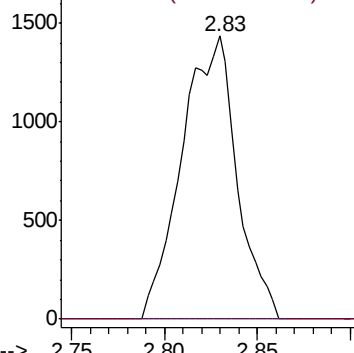
Tert butyl alcohol
 Concen: 2.618 ug/l
 RT: 2.83 min Scan# 541
 Delta R.T. -0.04 min
 Lab File: VU033986.D
 Acq: 27 Aug 2019 20:41

Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-B2-(2.5)

Tgt Ion: 59 Resp: 2954
 Ion Ratio Lower Upper
 59 100
 57 0.0 3.9 5.9#



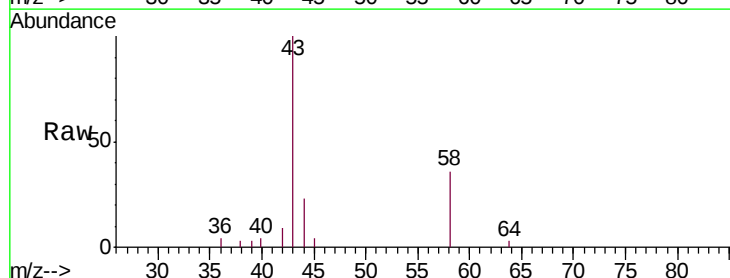
Abundance Ion 59.00 (58.70 to 59.70): VU033975.D (-523) (-)
 Ion 57.00 (56.70 to 57.70): VU033975.D (-523) (-)



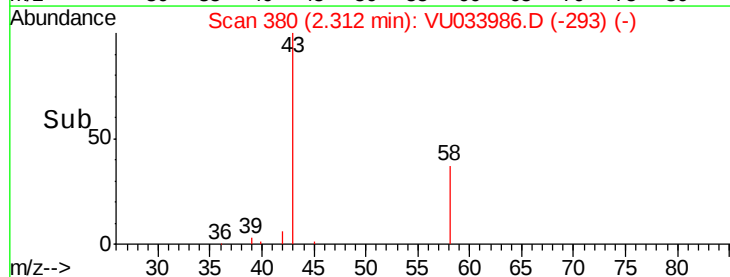
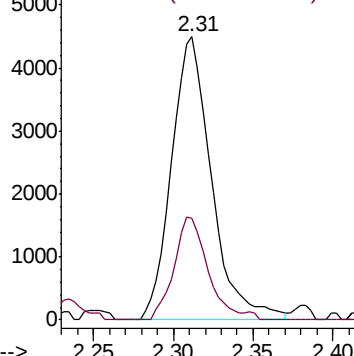
#16

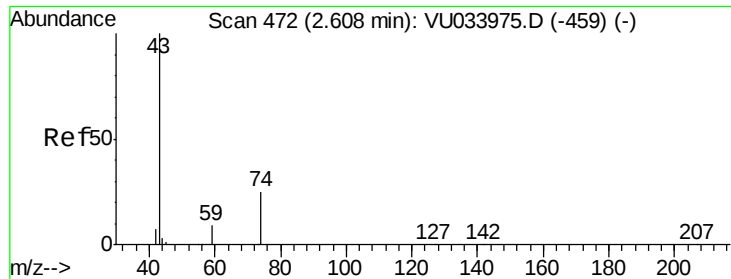
Acetone
 Concen: 3.688 ug/l
 RT: 2.31 min Scan# 380
 Delta R.T. -0.02 min
 Lab File: VU033986.D
 Acq: 27 Aug 2019 20:41

Tgt Ion: 43 Resp: 7690
 Ion Ratio Lower Upper
 43 100
 58 35.9 28.0 42.0



Abundance Ion 43.00 (42.70 to 43.70): VU033975.D (-371) (-)
 Ion 58.00 (57.70 to 58.70): VU033975.D (-371) (-)

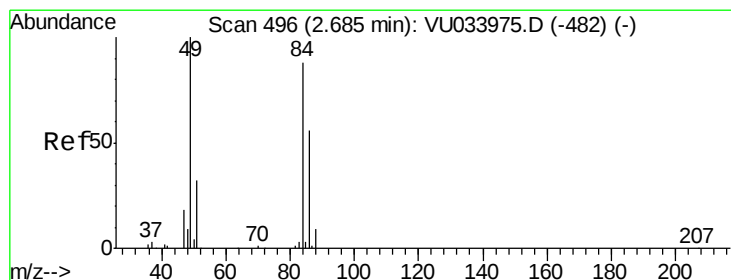
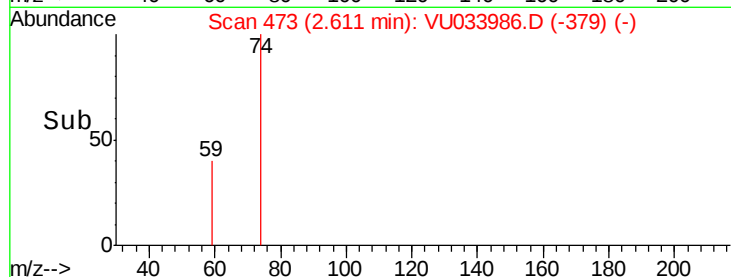
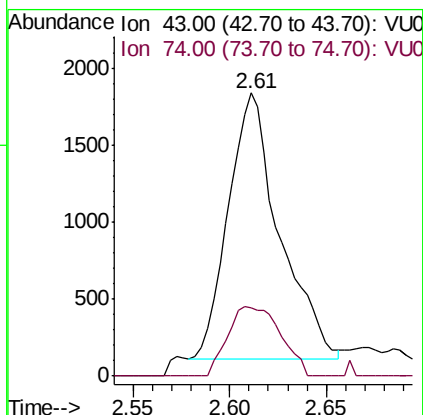
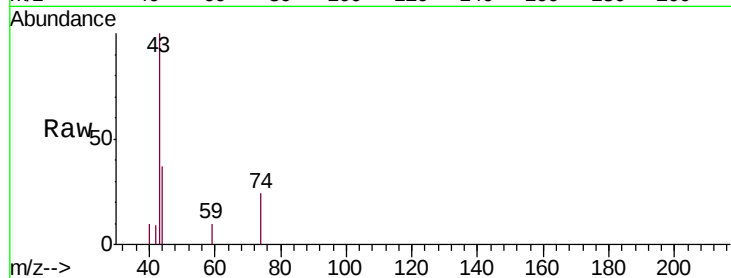




#18
Methyl Acetate
Concen: 0.623 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU033986.D
Acq: 27 Aug 2019 20:41

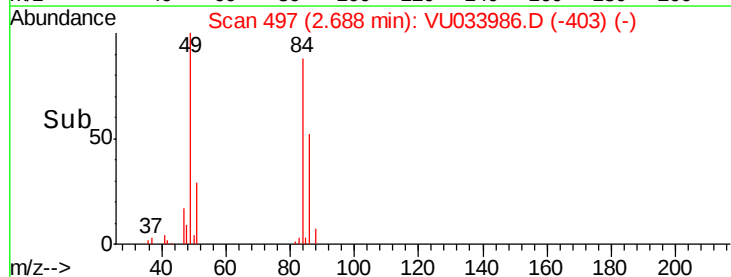
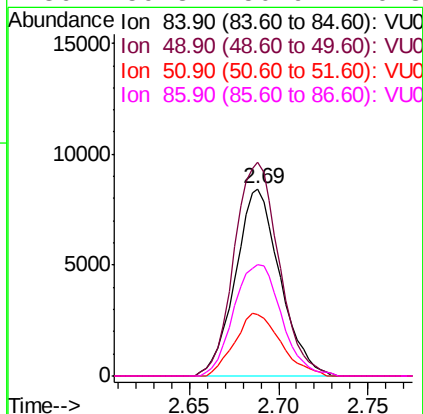
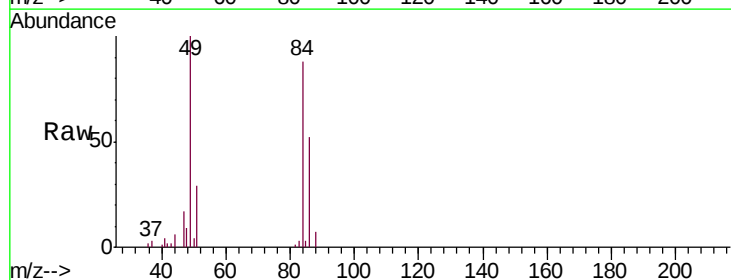
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B2-(2.5)

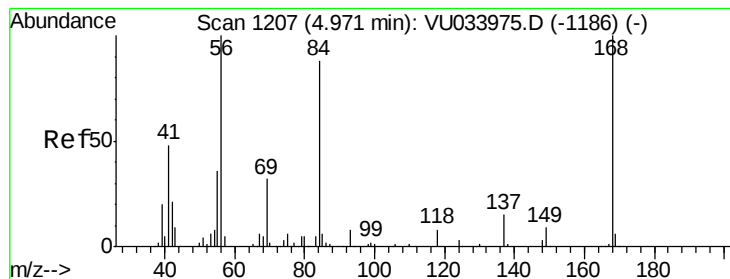
Tgt Ion: 43 Resp: 3200
Ion Ratio Lower Upper
43 100
74 26.9 20.5 30.7



#20
Methylene Chloride
Concen: 3.326 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU033986.D
Acq: 27 Aug 2019 20:41

Tgt Ion: 84 Resp: 14717
Ion Ratio Lower Upper
84 100
49 114.2 91.3 136.9
51 33.0 28.9 43.3
86 59.3 50.9 76.3





#31

Cyclohexane

Concen: 0.956 ug/l

RT: 4.96 min Scan# 1204

Delta R.T. -0.01 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B2-(2.5)

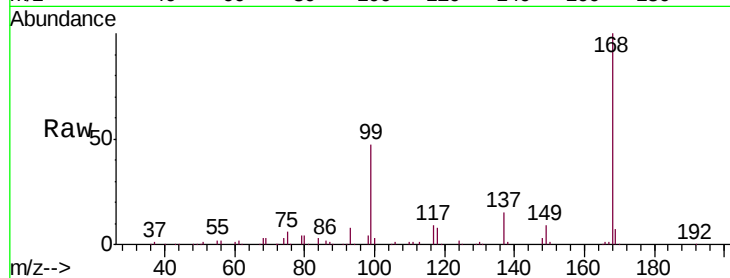
Tgt Ion: 56 Resp: 6138

Ion Ratio Lower Upper

56 100

69 186.7 25.9 38.9#

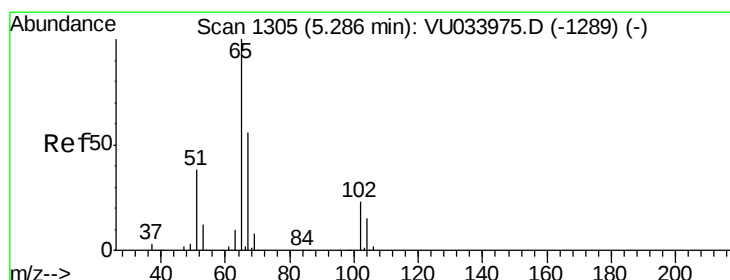
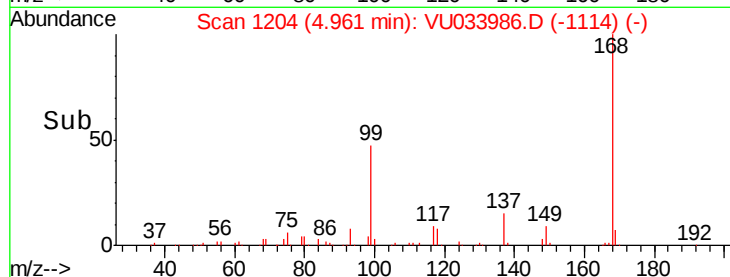
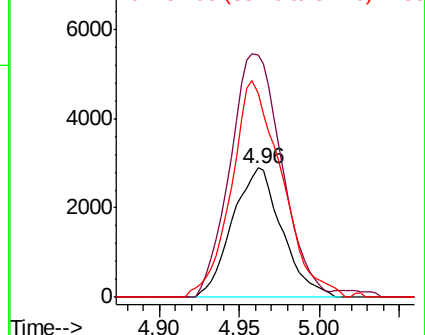
84 153.6 70.4 105.6#



Abundance Ion 56.00 (55.70 to 56.70): VU033975.D (-1186) (-)

Ion 69.00 (68.70 to 69.70): VU033975.D (-1186) (-)

Ion 84.00 (83.70 to 84.70): VU033975.D (-1186) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.911 ug/l

RT: 5.29 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU033986.D

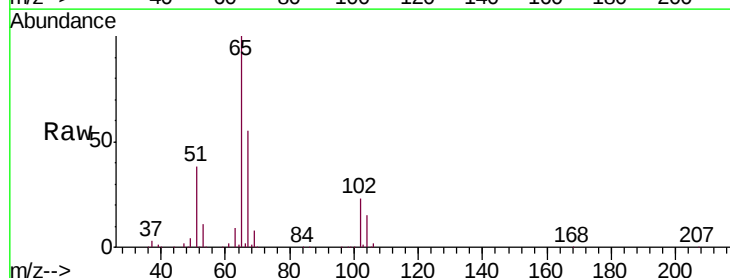
Acq: 27 Aug 2019 20:41

Tgt Ion: 65 Resp: 204375

Ion Ratio Lower Upper

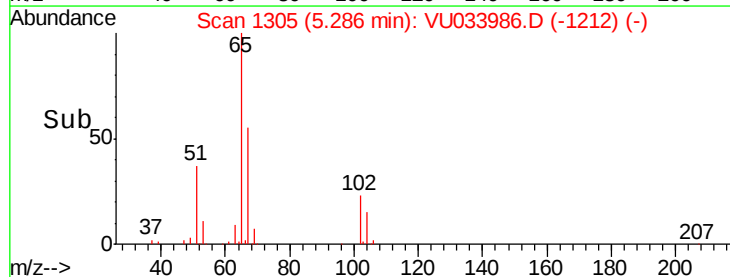
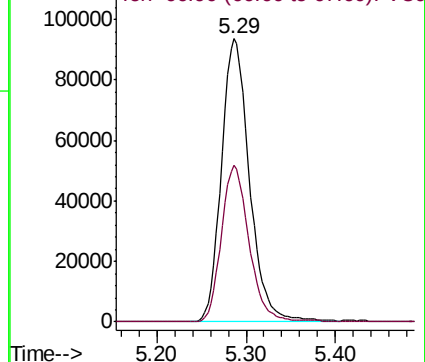
65 100

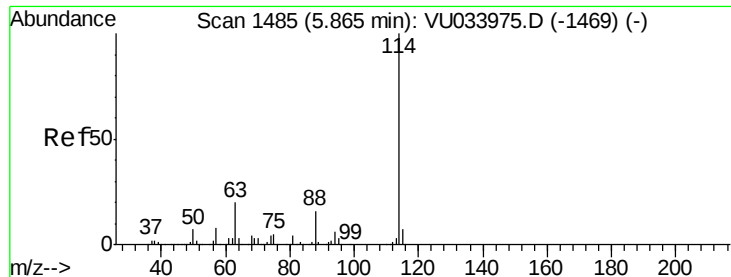
67 54.7 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VU033975.D (-1289) (-)

Ion 66.90 (66.60 to 67.60): VU033975.D (-1289) (-)

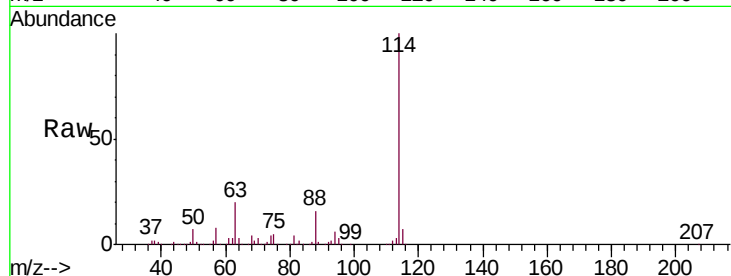




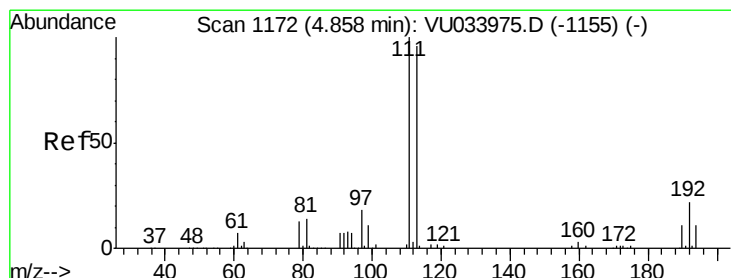
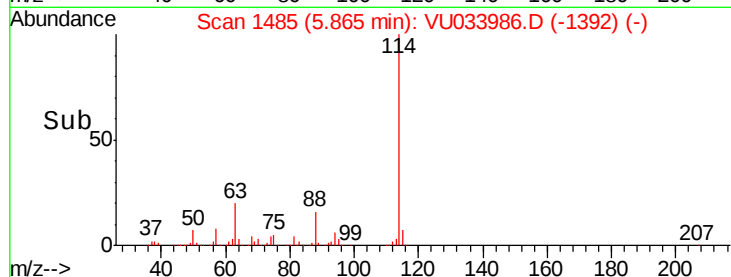
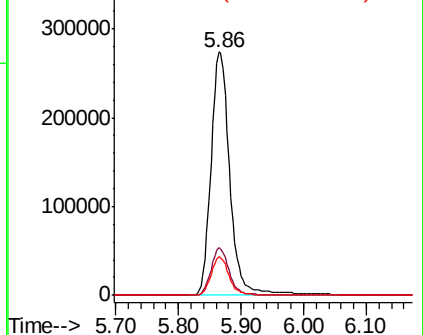
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.86 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VU033986.D
 Acq: 27 Aug 2019 20:41

Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-B2-(2.5)

Tgt Ion:114 Resp: 574526
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.8 0.0 31.2

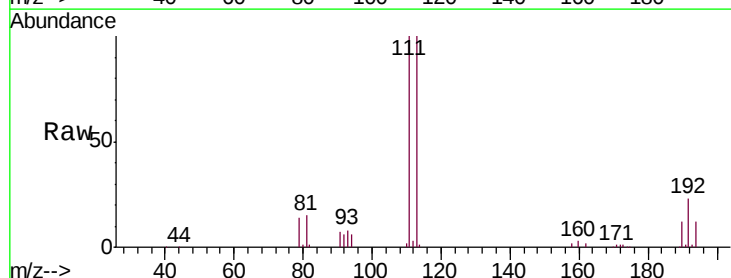


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

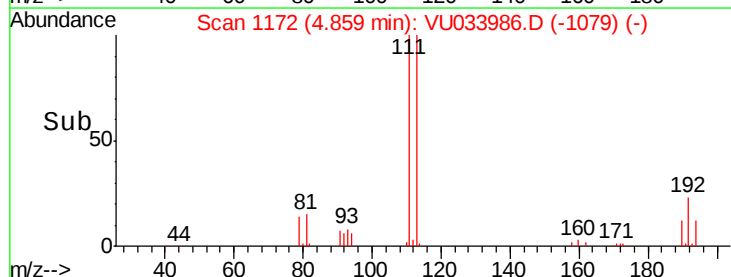
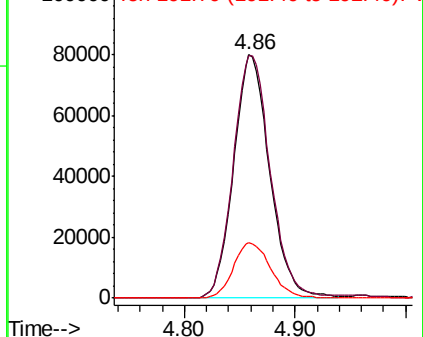


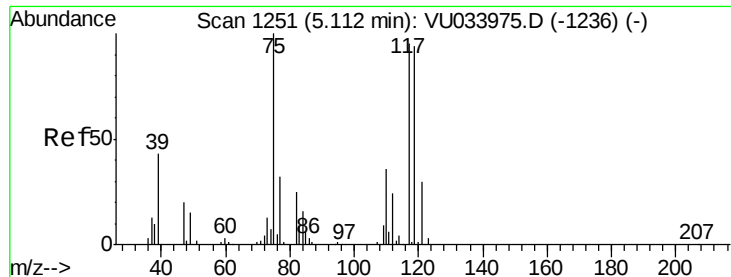
#35
 Dibromofluoromethane
 Concen: 46.965 ug/l
 RT: 4.86 min Scan# 1172
 Delta R.T. 0.00 min
 Lab File: VU033986.D
 Acq: 27 Aug 2019 20:41

Tgt Ion:113 Resp: 181377
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.7 122.5
 192 23.6 18.6 27.8



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

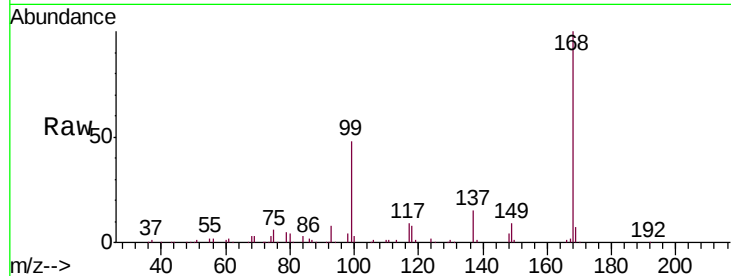




#36
 1,1-Dichloropropene
 Concen: 4.759 ug/l
 RT: 4.96 min Scan# 1203
 Delta R.T. -0.15 min
 Lab File: VU033986.D
 Acq: 27 Aug 2019 20:41

Instrument :
 MSVOA_U
 ClientSampleId :
 T1-S-B2-(2.5)

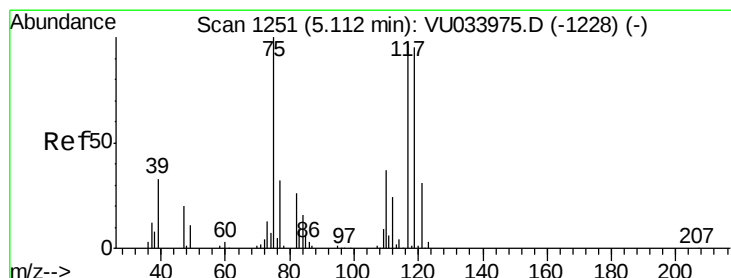
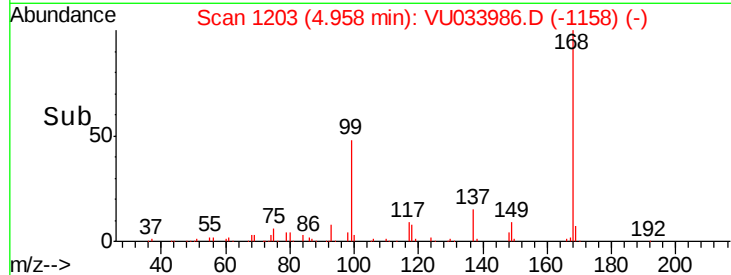
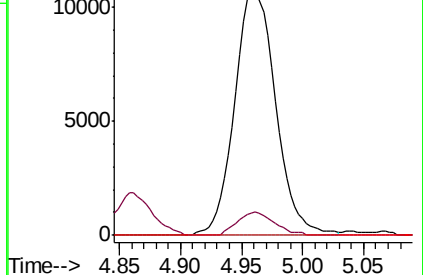
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.2	54.6#
77	0.0	24.8	37.2#



Abundance Ion 74.90 (74.60 to 75.60): VU033975.D (-1236) (-)

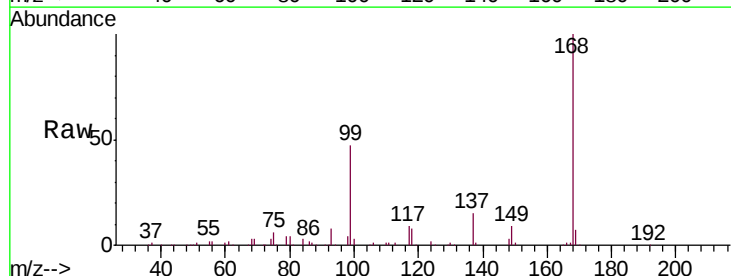
Ion 109.90 (109.60 to 110.60): VU033975.D (-1236) (-)

Ion 76.90 (76.60 to 77.60): VU033975.D (-1236) (-)



#38
 Carbon Tetrachloride
 Concen: 6.395 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU033986.D
 Acq: 27 Aug 2019 20:41

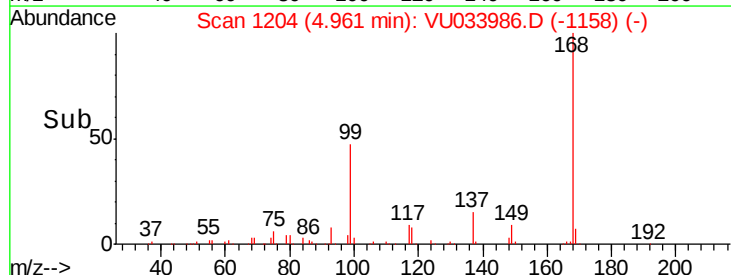
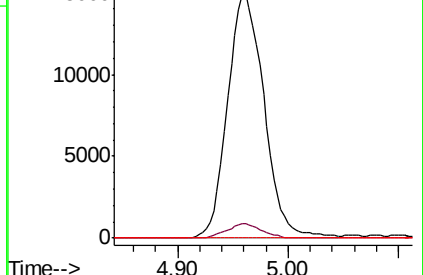
Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	78.4	117.6#
121	0.0	25.4	38.2#

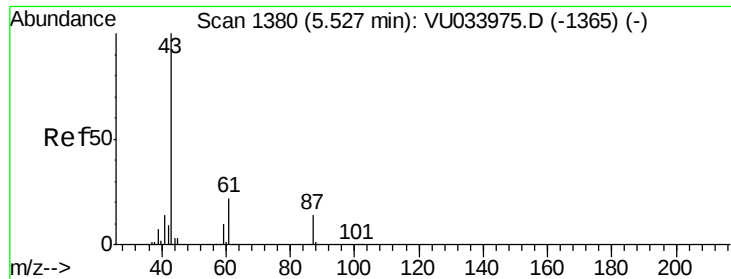


Abundance Ion 116.80 (116.50 to 117.50): VU033975.D (-1228) (-)

Ion 118.80 (118.50 to 119.50): VU033975.D (-1228) (-)

Ion 120.80 (120.50 to 121.50): VU033975.D (-1228) (-)

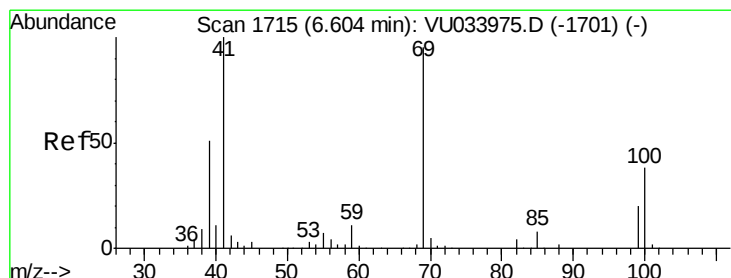
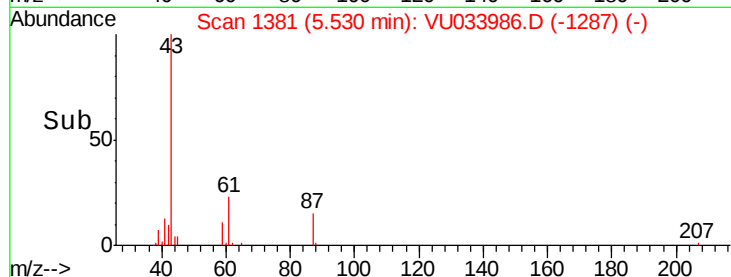
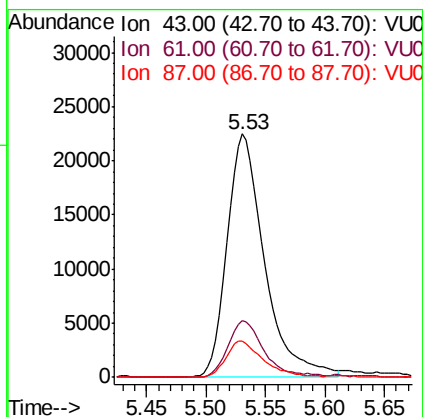
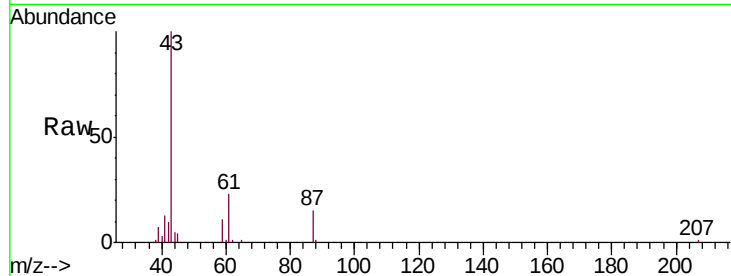




#43
Isopropyl Acetate
Concen: 6.070 ug/l
RT: 5.53 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VU033986.D
Acq: 27 Aug 2019 20:41

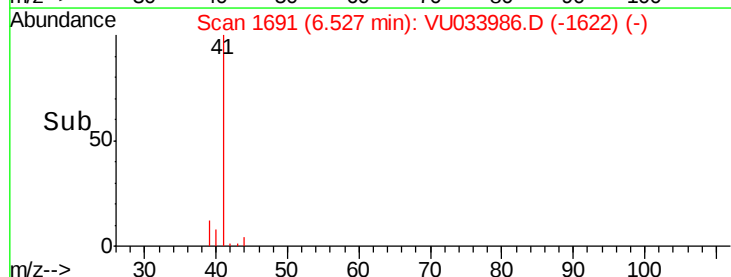
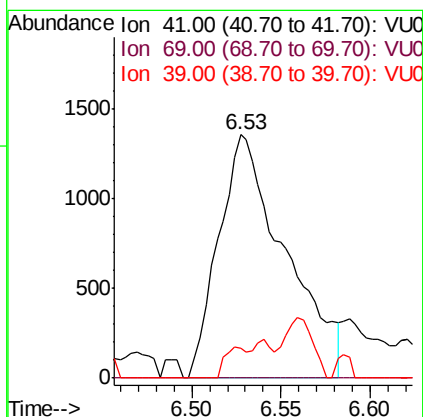
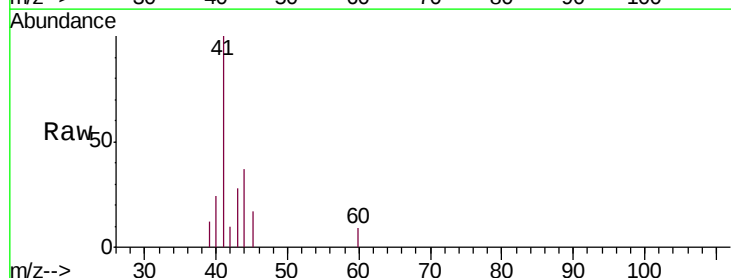
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B2-(2.5)

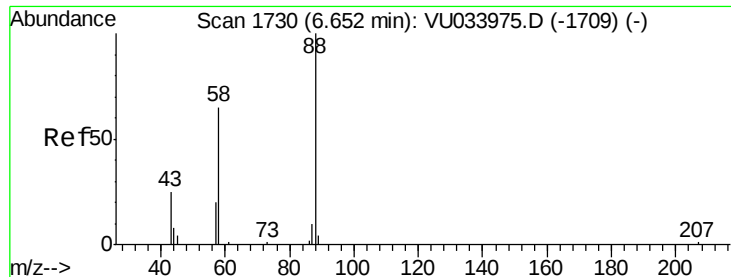
Tgt Ion: 43 Resp: 49119
Ion Ratio Lower Upper
43 100
61 22.4 17.8 26.8
87 14.8 11.9 17.9



#48
Methyl methacrylate
Concen: 0.910 ug/l
RT: 6.53 min Scan# 1691
Delta R.T. -0.08 min
Lab File: VU033986.D
Acq: 27 Aug 2019 20:41

Tgt Ion: 41 Resp: 3500
Ion Ratio Lower Upper
41 100
69 0.0 76.3 114.5#
39 0.0 41.1 61.7#





#49

1,4-Dioxane

Concen: 0.445 ug/l

RT: 6.68 min Scan# 1739

Delta R.T. 0.03 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B2-(2.5)

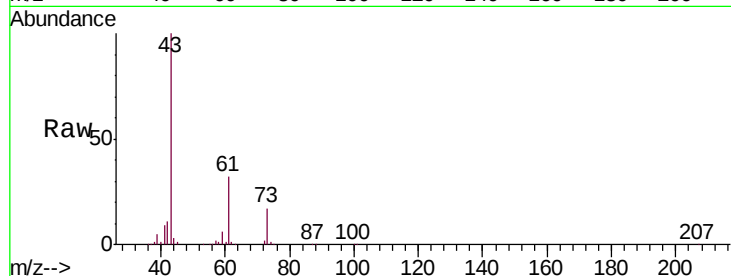
Tgt Ion: 88 Resp: 47

Ion Ratio Lower Upper

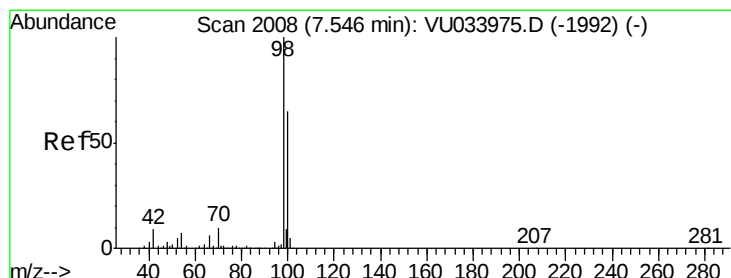
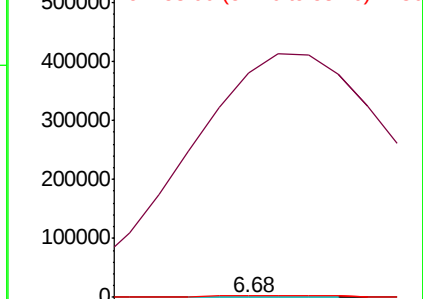
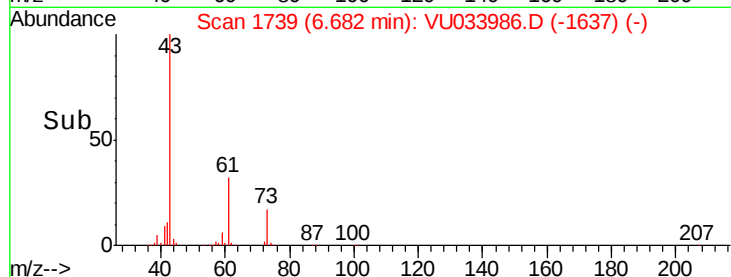
88 100

43 1621159.6 0.0 0.0#

58 8955.3 56.6 85.0#



Abundance Ion 88.00 (87.70 to 88.70): VU033986.D (-1637) (-)



#50

Toluene-d8

Concen: 49.990 ug/l

RT: 7.55 min Scan# 2008

Delta R.T. 0.00 min

Lab File: VU033986.D

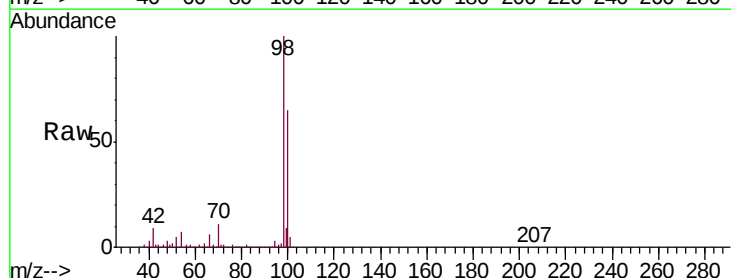
Acq: 27 Aug 2019 20:41

Tgt Ion: 98 Resp: 712093

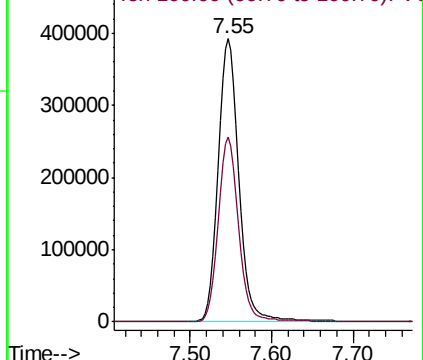
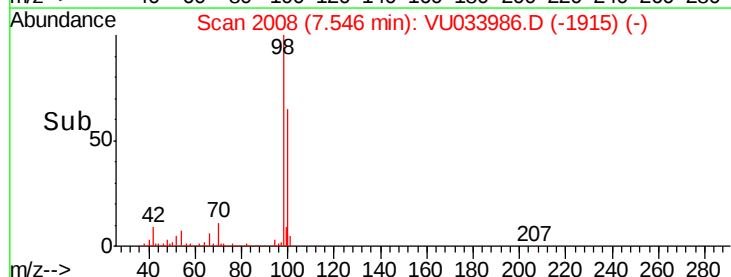
Ion Ratio Lower Upper

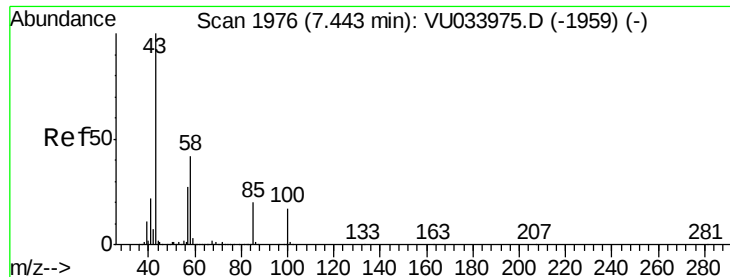
98 100

100 64.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VU033986.D (-1915) (-)





#51

4-Methyl-2-Pentanone

Concen: 8.489 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

Instrument :

MSVOA_U

ClientSampleId :

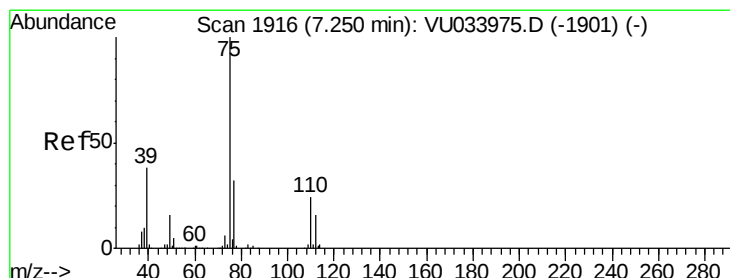
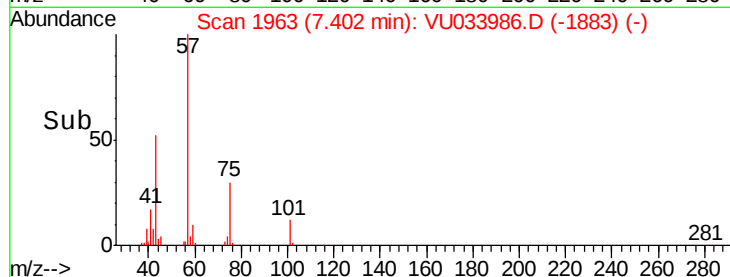
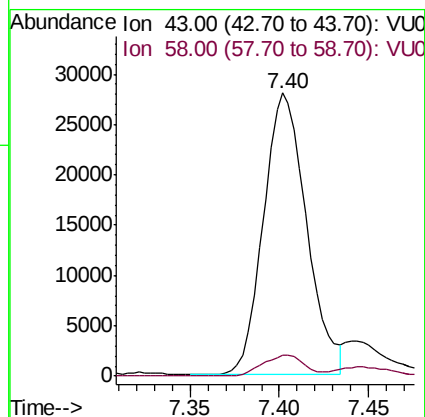
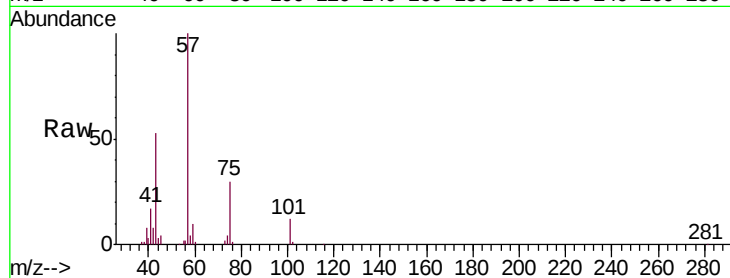
T1-S-B2-(2.5)

Tgt Ion: 43 Resp: 47363

Ion Ratio Lower Upper

43 100

58 7.3 33.6 50.4#



#54

cis-1,3-Dichloropropene

Concen: 4.219 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

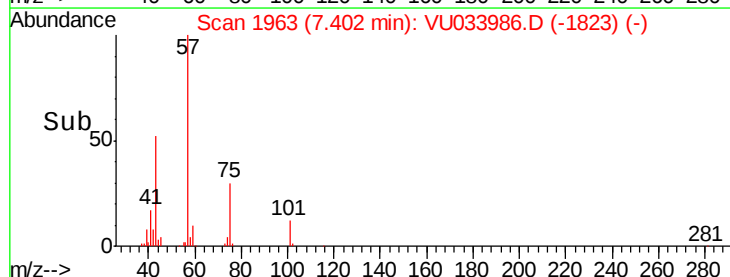
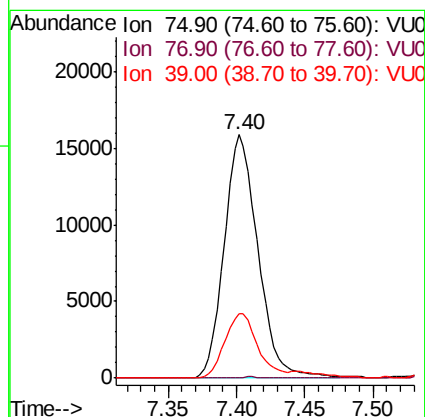
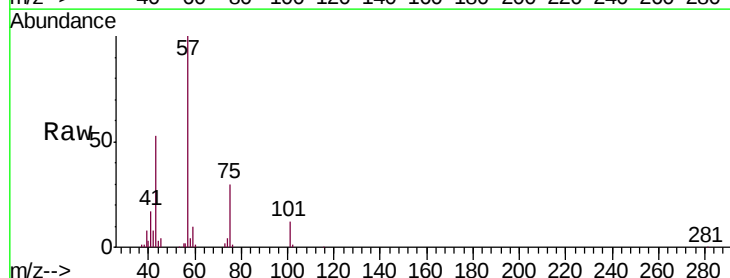
Tgt Ion: 75 Resp: 27344

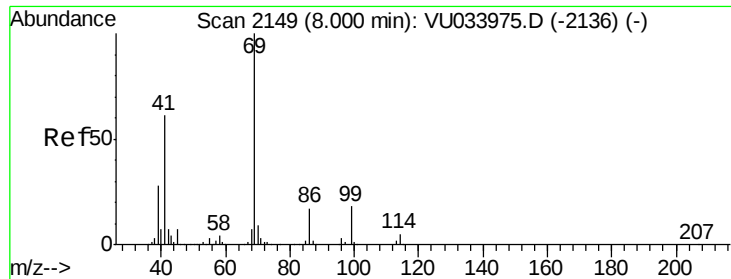
Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 26.7 30.7 46.1#





#56

Ethyl methacrylate

Concen: 2.530 ug/l

RT: 7.87 min Scan# 2109

Delta R.T. -0.13 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B2-(2.5)

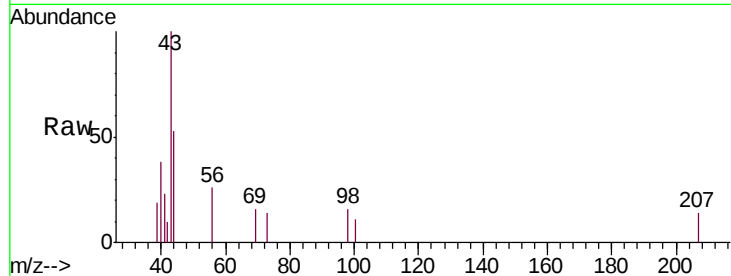
Tgt Ion: 69 Resp: 104

Ion Ratio Lower Upper

69 100

41 0.0 48.6 72.8#

39 0.0 22.4 33.6#

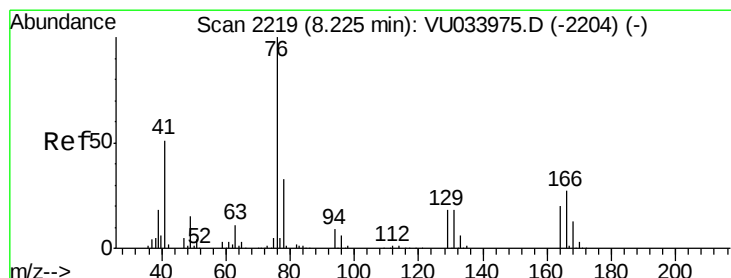
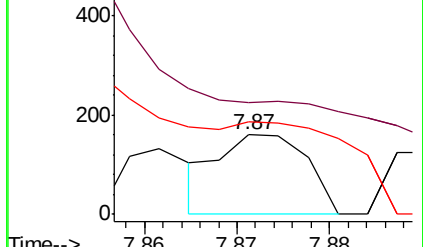
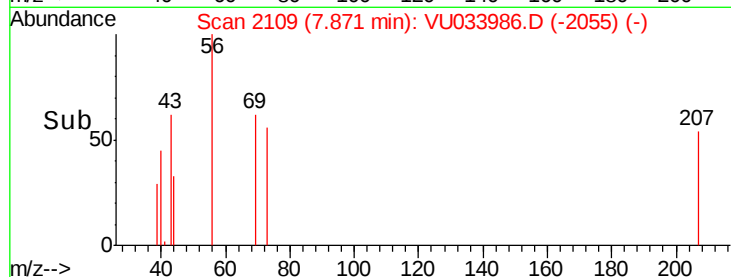


Abundance Ion 69.00 (68.70 to 69.70): VU033975.D (-2136) (-)

Ion 41.00 (40.70 to 41.70): VU033975.D (-2136) (-)

Ion 39.00 (38.70 to 39.70): VU033975.D (-2136) (-)

Time-->



#57

1,3-Dichloropropane

Concen: 0.630 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.17 min

Lab File: VU033986.D

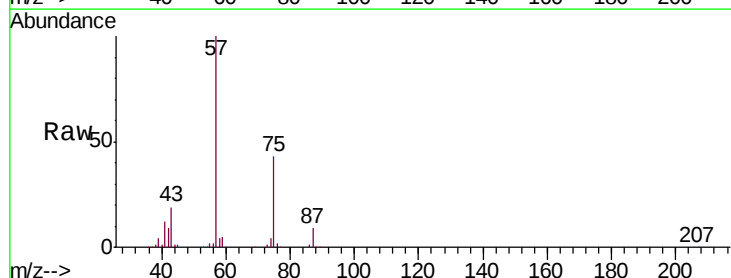
Acq: 27 Aug 2019 20:41

Tgt Ion: 76 Resp: 4281

Ion Ratio Lower Upper

76 100

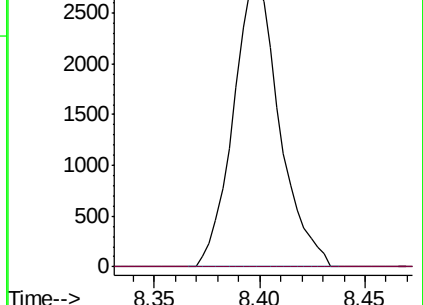
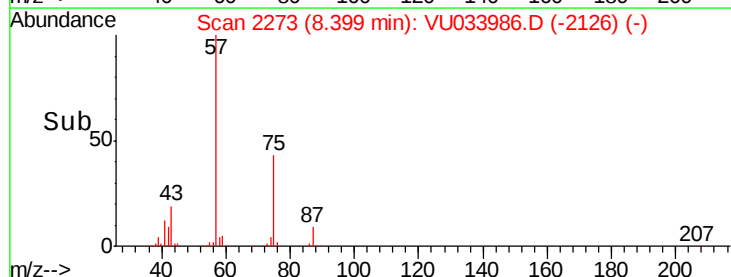
78 0.0 25.7 38.5#

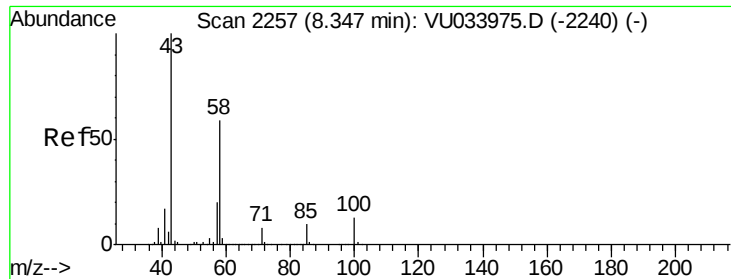


Abundance Ion 75.90 (75.60 to 76.60): VU033975.D (-2204) (-)

Ion 77.90 (77.60 to 78.60): VU033975.D (-2204) (-)

Time-->

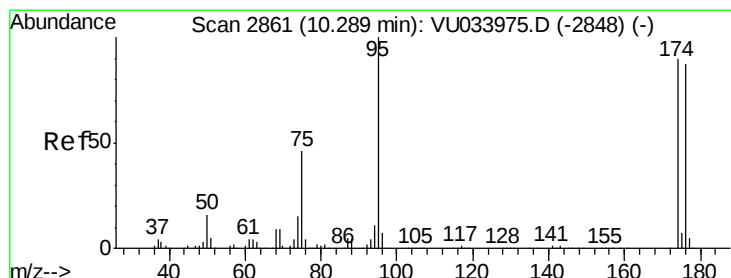
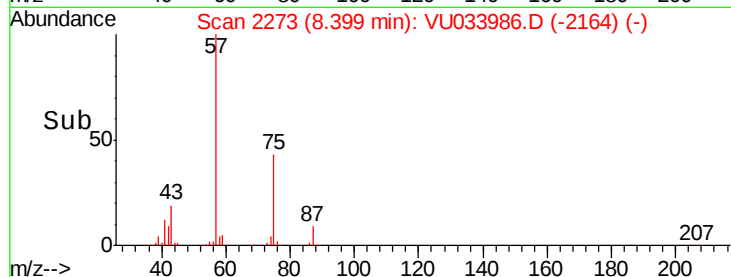
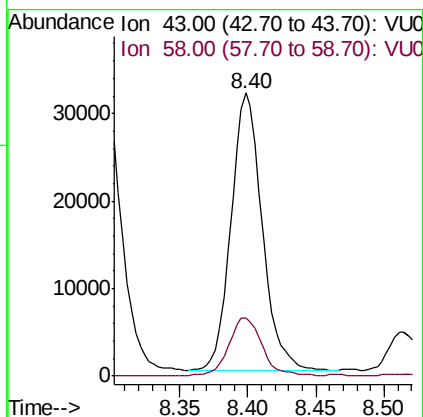
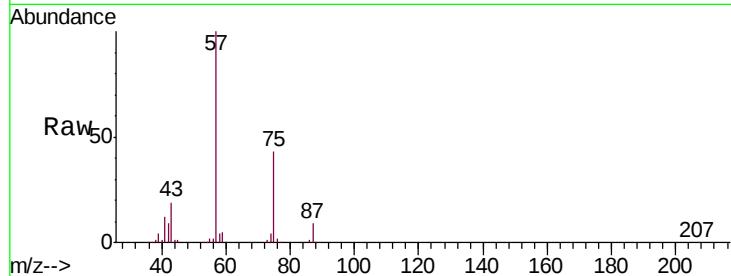




#59
2-Hexanone
Concen: 11.639 ug/l
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU033986.D
Acq: 27 Aug 2019 20:41

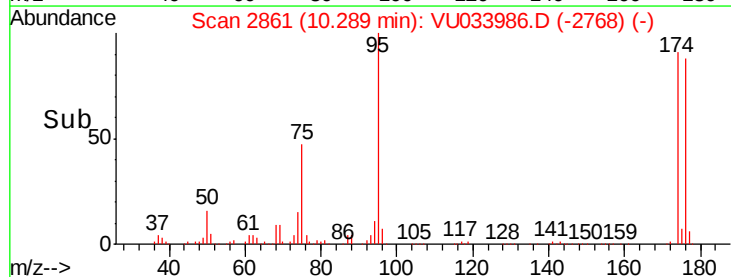
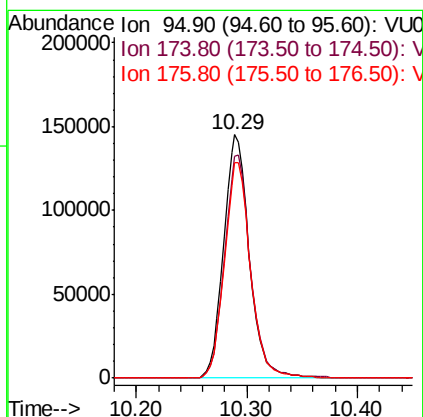
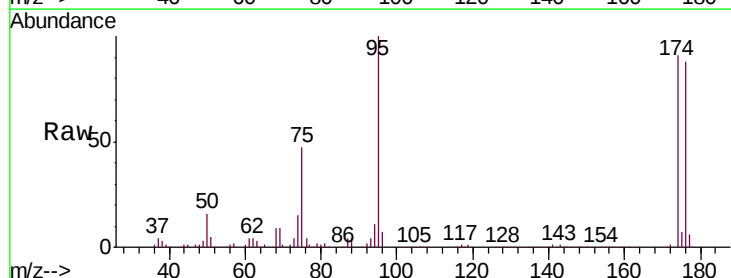
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B2-(2.5)

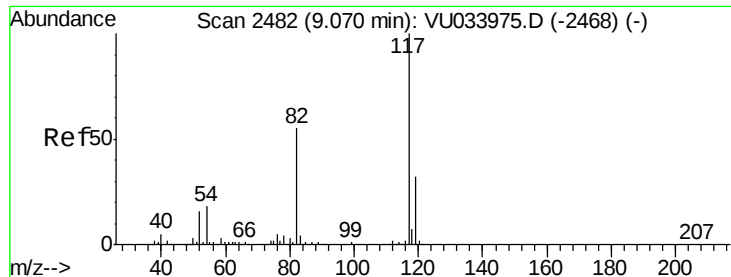
Tgt Ion: 43 Resp: 49918
Ion Ratio Lower Upper
43 100
58 23.0 29.5 88.6#



#62
4-Bromofluorobenzene
Concen: 43.008 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. 0.00 min
Lab File: VU033986.D
Acq: 27 Aug 2019 20:41

Tgt Ion: 95 Resp: 235005
Ion Ratio Lower Upper
95 100
174 92.8 0.0 183.8
176 89.8 0.0 176.4

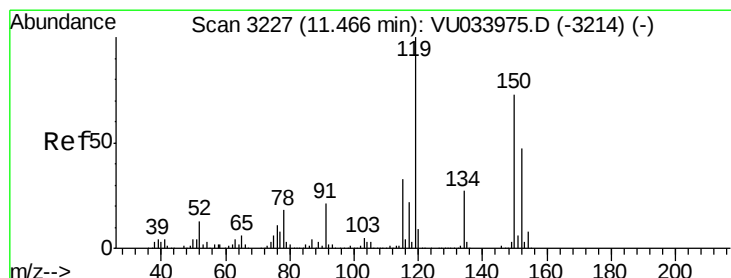
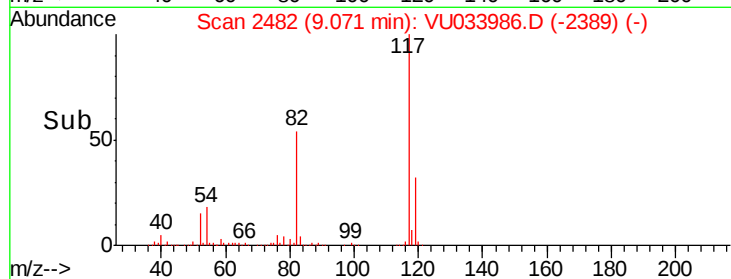
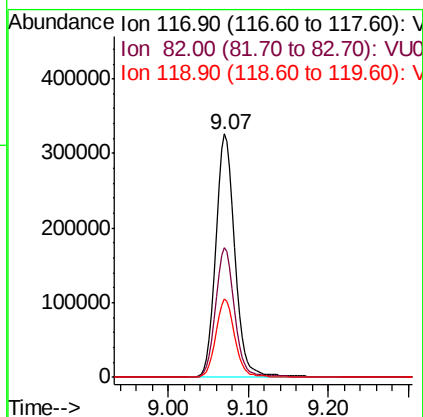
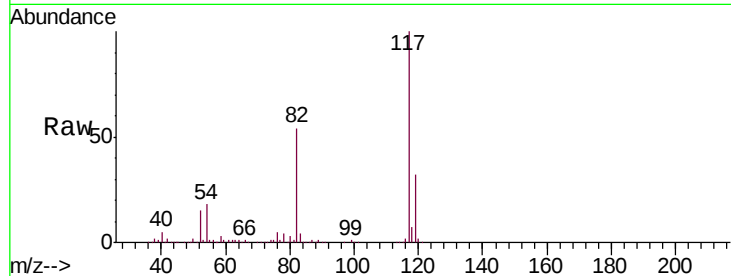




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU033986.D
Acq: 27 Aug 2019 20:41

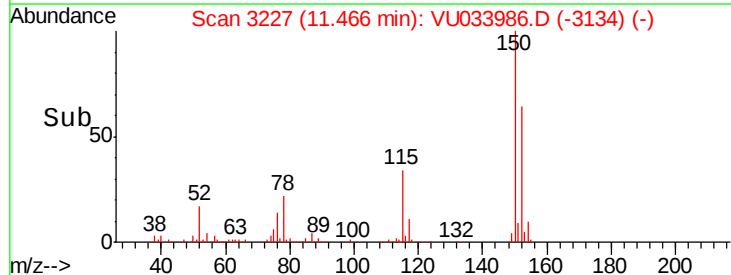
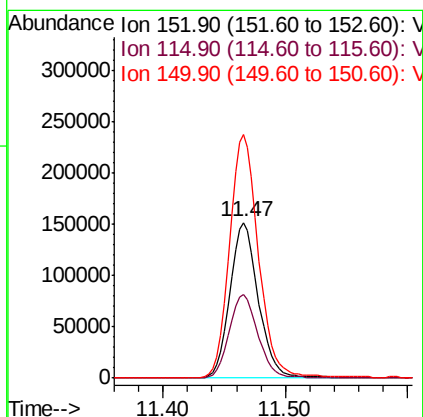
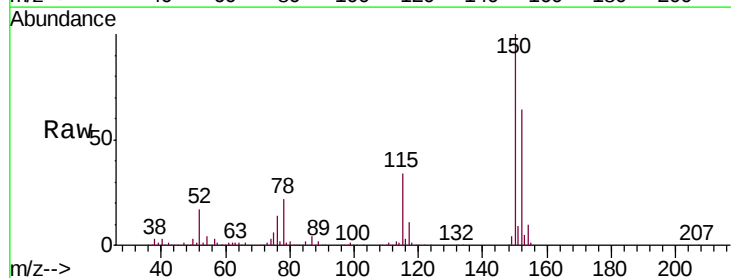
Instrument :
MSVOA_U
ClientSampleId :
T1-S-B2-(2.5)

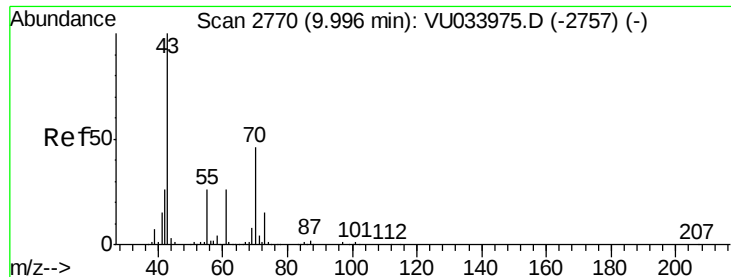
Tgt Ion:117 Resp: 544652
Ion Ratio Lower Upper
117 100
82 53.5 43.8 65.8
119 32.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.47 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VU033986.D
Acq: 27 Aug 2019 20:41

Tgt Ion:152 Resp: 246896
Ion Ratio Lower Upper
152 100
115 54.9 38.6 115.7
150 159.5 0.0 343.8





#74

N-amyI acetate

Concen: 0.233 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B2-(2.5)

Tgt Ion: 43 Resp: 1390

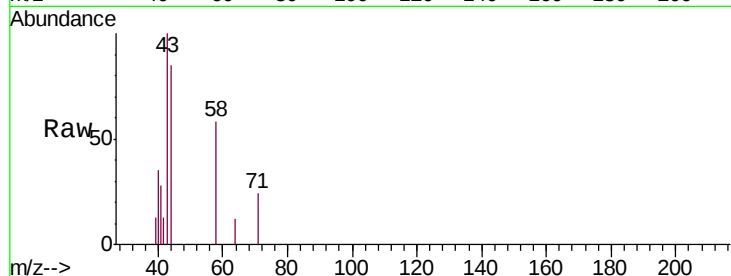
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 0.0 21.0 31.4#

61 0.0 20.9 31.3#

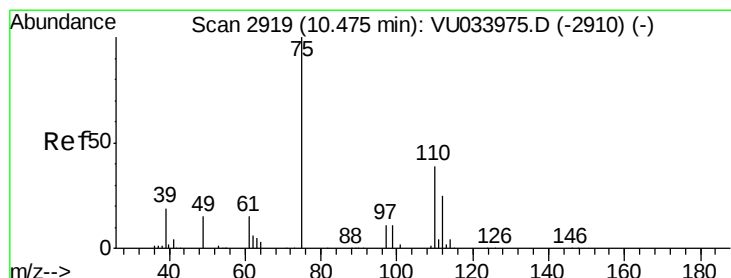
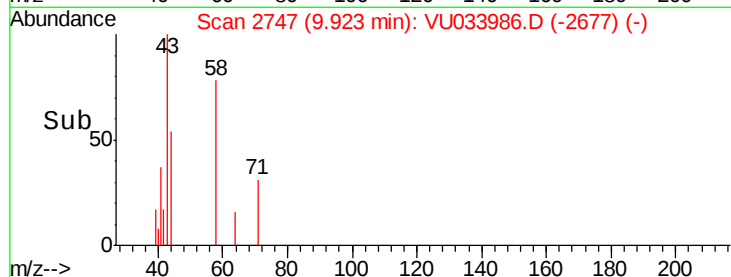
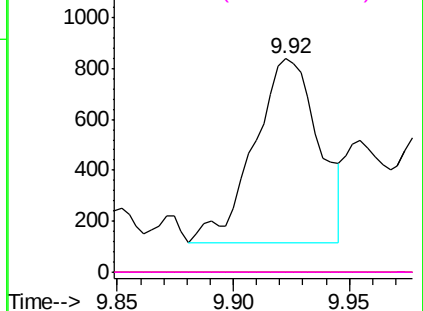


Abundance Ion 43.00 (42.70 to 43.70): VU0

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



#76

1,2,3-Trichloropropane

Concen: 22.244 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU033986.D

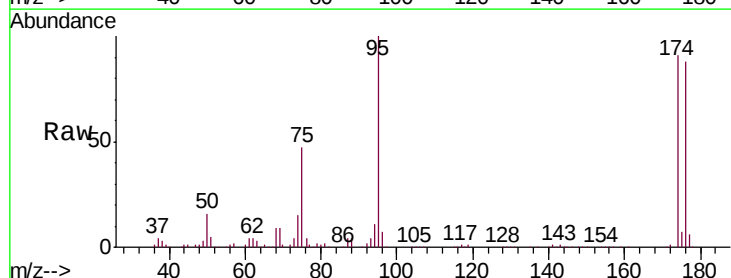
Acq: 27 Aug 2019 20:41

Tgt Ion: 75 Resp: 109426

Ion Ratio Lower Upper

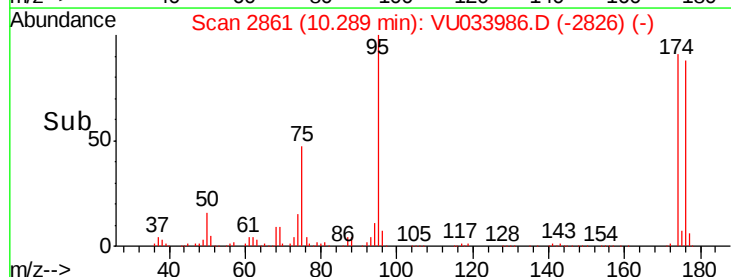
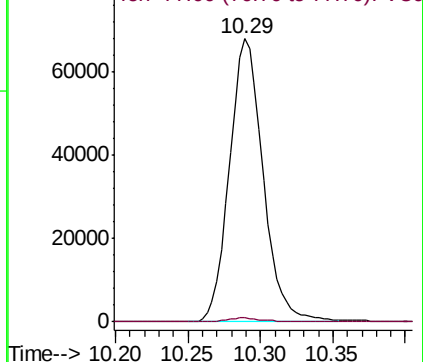
75 100

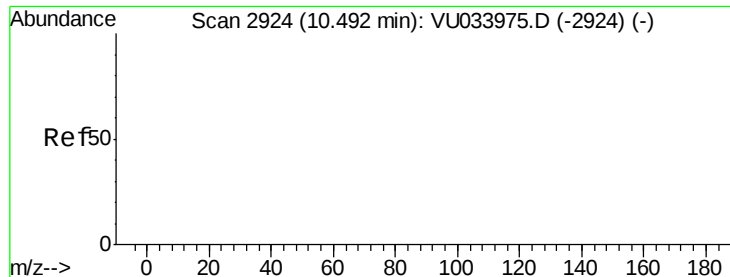
77 1.4 21.0 63.0#



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: 63.711 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.20 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

Instrument :

MSVOA_U

ClientSampleId :

T1-S-B2-(2.5)

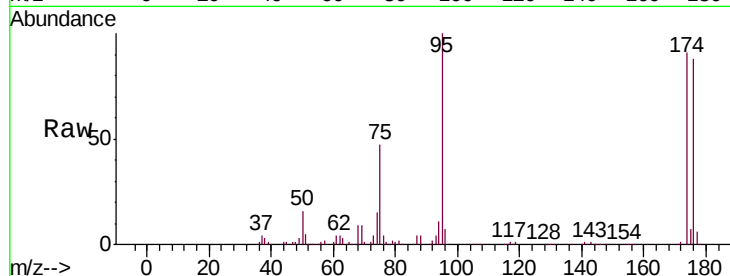
Tgt Ion: 75 Resp: 109426

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0#

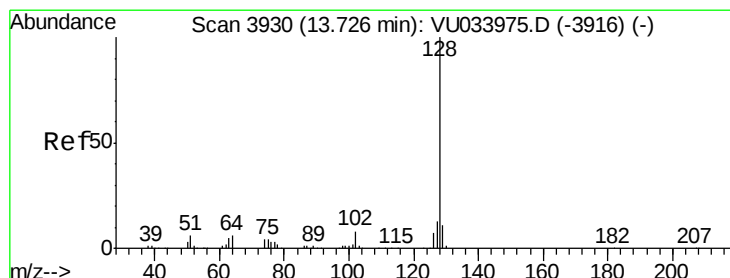
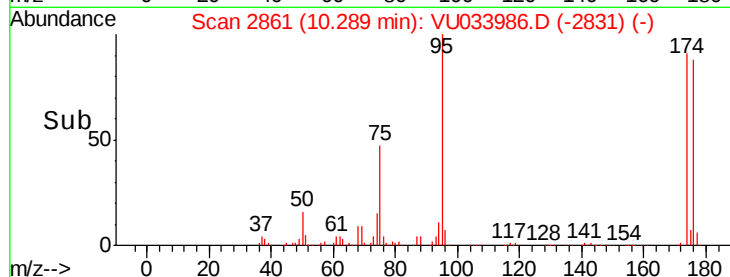
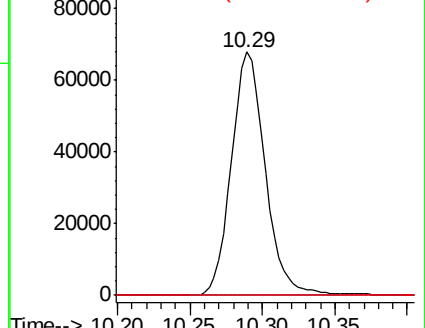
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU033986.D (-2861) (-)

Ion 53.00 (52.70 to 53.70): VU033986.D (-2861) (-)

Ion 88.90 (88.60 to 89.60): VU033986.D (-2861) (-)



#95

Naphthalene

Concen: 2.094 ug/l

RT: 13.78 min Scan# 3947

Delta R.T. 0.05 min

Lab File: VU033986.D

Acq: 27 Aug 2019 20:41

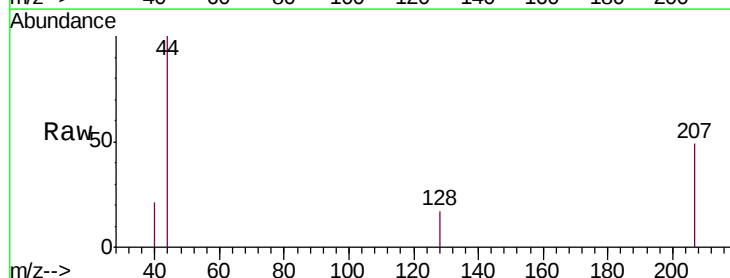
Tgt Ion: 128 Resp: 169

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): VU033986.D (-3947) (-)

Ion 127.00 (126.70 to 127.70): VU033986.D (-3947) (-)

Ion 129.00 (128.70 to 129.70): VU033986.D (-3947) (-)

