

Data File : VU034489.D
Acq On : 11 Sep 2019 21:01
Operator : JC/SP
Sample : K4643-28
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
T11-B3-(4)

Quant Time: Sep 12 04:44:26 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 05:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.96	168	248268	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	377624	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	389888	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	212426	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.29	65	223321	59.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.90%	
35) Dibromofluoromethane	4.86	113	195582	55.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.32%	
50) Toluene-d8	7.55	98	696352	52.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.50%	
62) 4-Bromofluorobenzene	10.29	95	234601	46.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.06%	

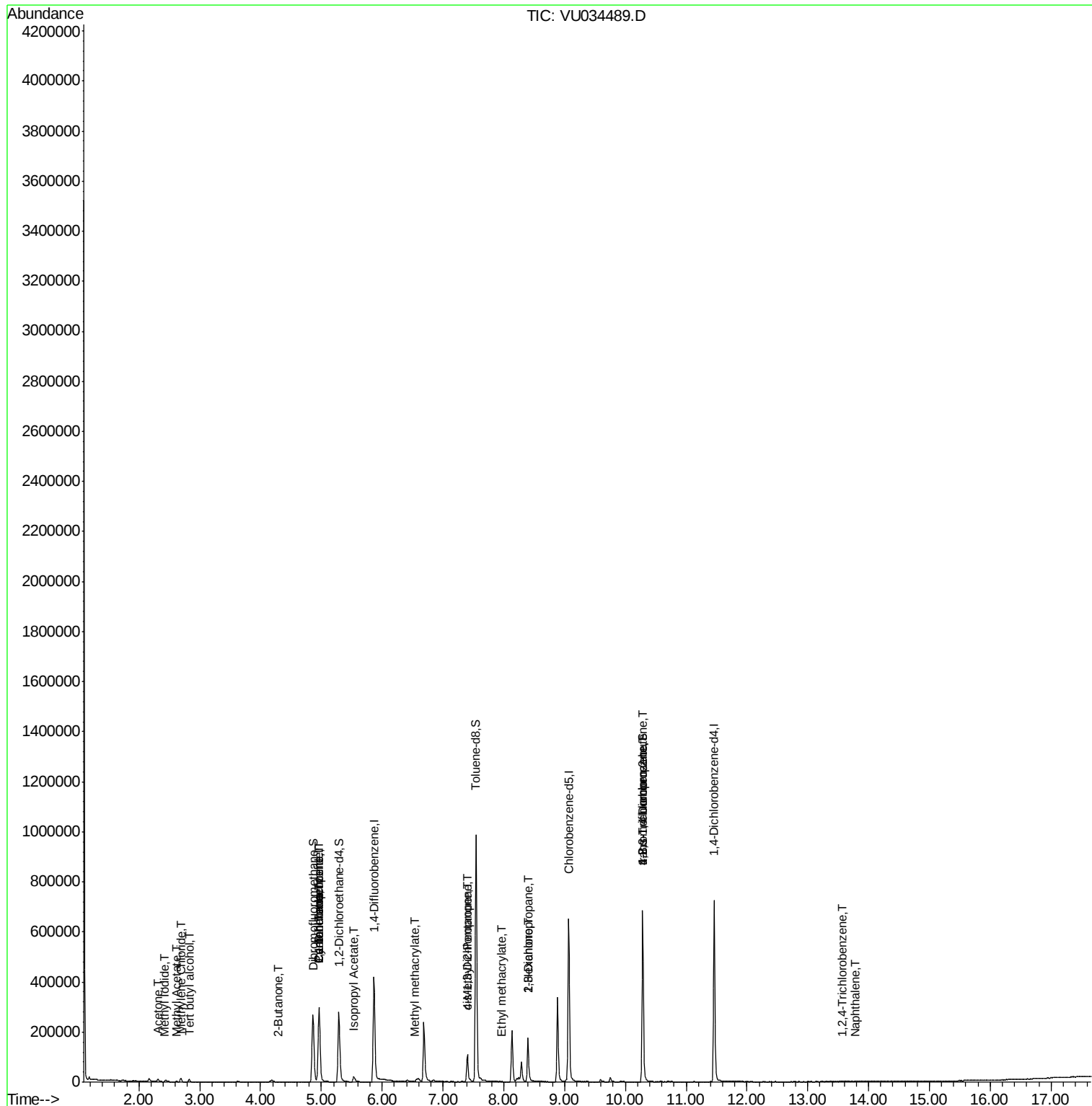
Target Compounds			Qvalue			
5) Bromomethane	1.63	94	743	Below Cal	#	73
6) Chloroethane	1.65	64	138	Below Cal	#	43
10) Methyl Iodide	2.41	142	383	3.981	ug/l #	56
11) Tert butyl alcohol	2.83	59	5286	6.661	ug/l #	73
16) Acetone	2.31	43	12188	6.270	ug/l	95
18) Methyl Acetate	2.61	43	2493	0.527	ug/l	97
20) Methylene Chloride	2.69	84	6381	1.617	ug/l	98
25) 2-Butanone	4.30	43	818	0.315	ug/l #	48
31) Cyclohexane	4.96	56	4253	0.967	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	17172	4.193	ug/l #	47
38) Carbon Tetrachloride	4.96	117	22075	5.048	ug/l #	16
43) Isopropyl Acetate	5.53	43	29450	3.899	ug/l	96
48) Methyl methacrylate	6.53	41	2718	0.758	ug/l #	13
51) 4-Methyl-2-Pentanone	7.40	43	37475	7.167	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	20637	3.634	ug/l #	71
56) Ethyl methacrylate	7.97	69	107	3.094	ug/l #	28
57) 1,3-Dichloropropane	8.40	76	1898	0.310	ug/l #	43
59) 2-Hexanone	8.40	43	26467	6.776	ug/l #	56
76) 1,2,3-Trichloropropane	10.29	75	109786	23.677	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.29	75	109786	79.623	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.57	180	20	3.455	ug/l #	12
95) Naphthalene	13.77	128	99	3.972	ug/l #	69

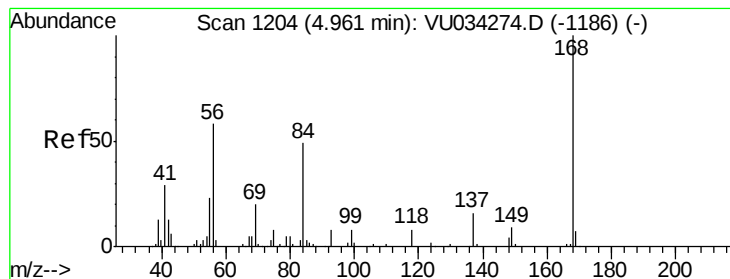
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.96 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VU034489.D

Acq: 11 Sep 2019 21:01

Instrument :

MSVOA_U

ClientSampleId :

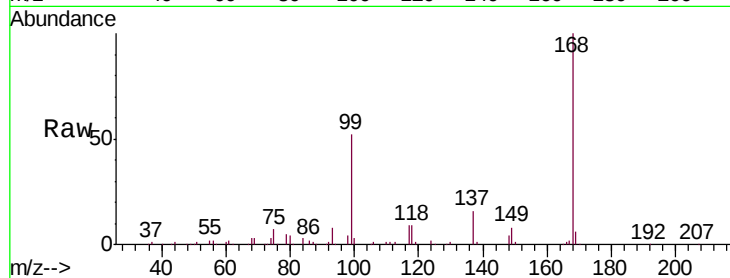
T11-B3-(4)

Tgt Ion:168 Resp: 248268

Ion Ratio Lower Upper

168 100

99 51.5 41.6 62.4



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

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

4.96

120000

100000

80000

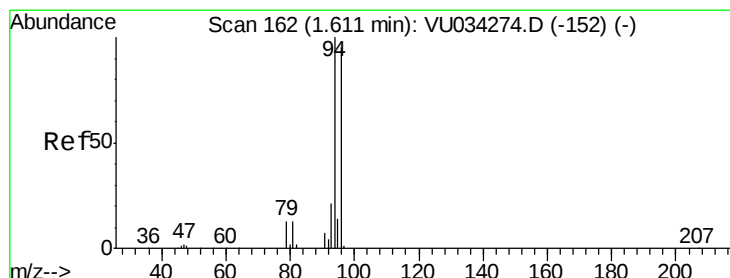
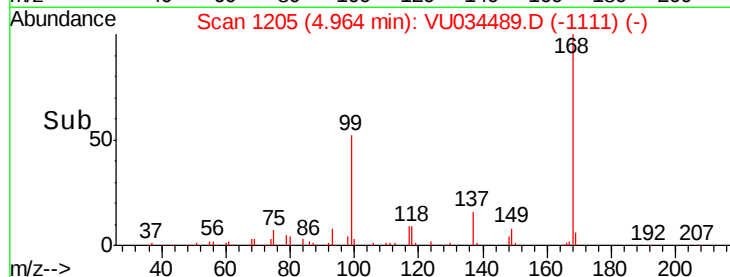
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.02 min

Lab File: VU034489.D

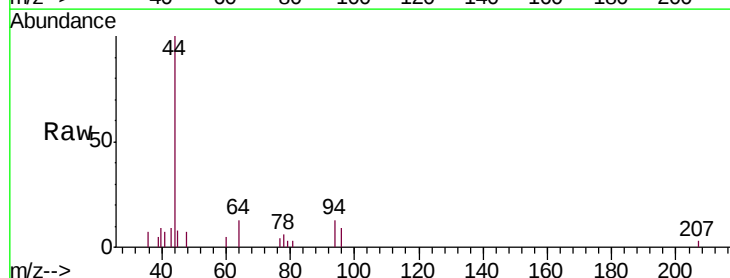
Acq: 11 Sep 2019 21:01

Tgt Ion: 94 Resp: 743

Ion Ratio Lower Upper

94 100

96 68.4 75.7 113.5#



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

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

1.63

400

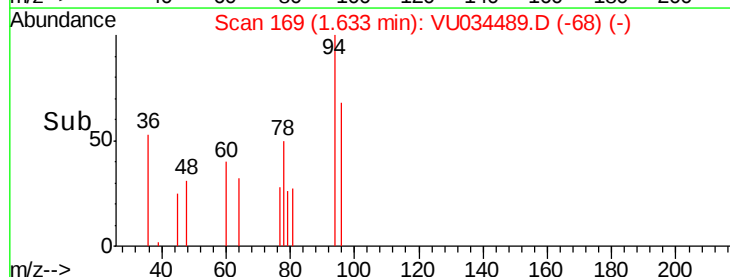
300

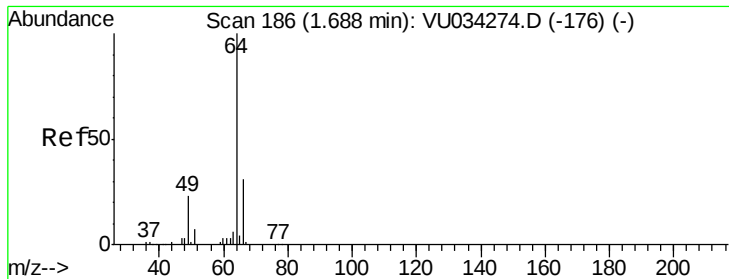
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. -0.04 min

Lab File: VU034489.D

Acq: 11 Sep 2019 21:01

Instrument :

MSVOA_U

ClientSampleId :

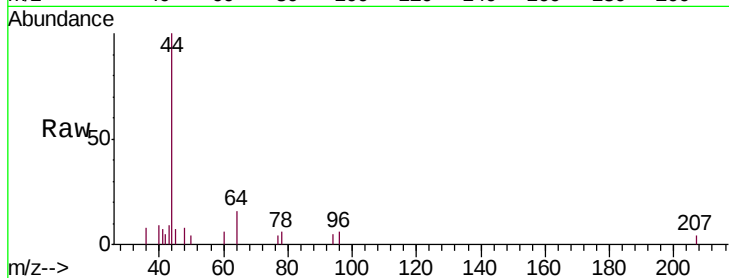
T11-B3-(4)

Tgt Ion: 64 Resp: 138

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VU034274.D (-176) (-)

Ion 65.90 (65.60 to 66.60): VU034274.D (-176) (-)

1.65

1.65

1.65

1.65

1.65

1.65

1.65

1.65

1.65

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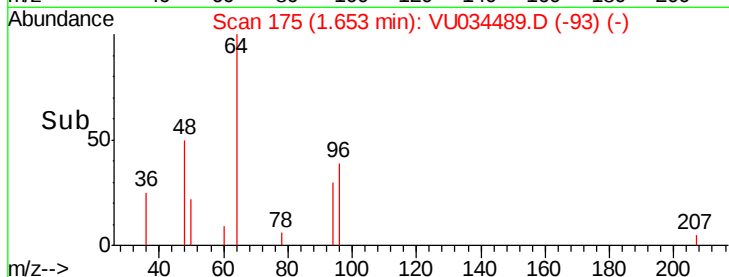
1.65

1.65

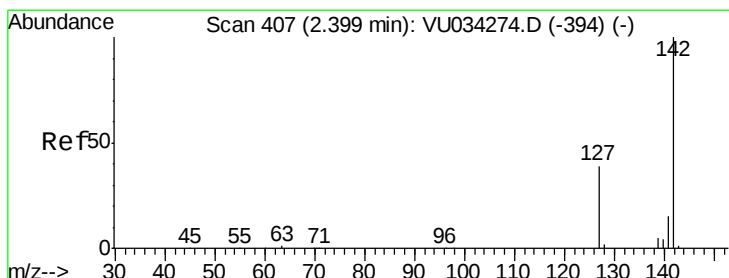
1.65

1.65

1.65



Time-->



#10

Methyl Iodide

Concen: 3.981 ug/l

RT: 2.41 min Scan# 411

Delta R.T. 0.01 min

Lab File: VU034489.D

Acq: 11 Sep 2019 21:01

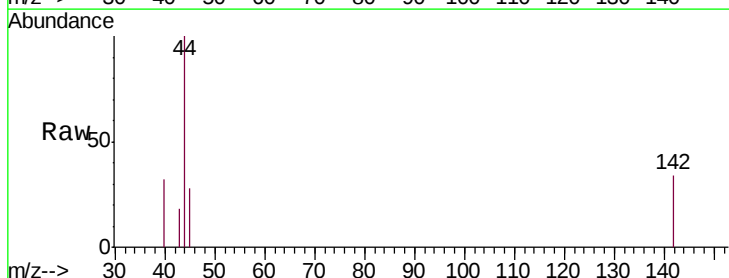
Tgt Ion: 142 Resp: 383

Ion Ratio Lower Upper

142 100

127 11.0 32.1 48.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VU034274.D (-394) (-)

Ion 126.80 (126.50 to 127.50): VU034274.D (-394) (-)

Ion 140.80 (140.50 to 141.50): VU034274.D (-394) (-)

2.41

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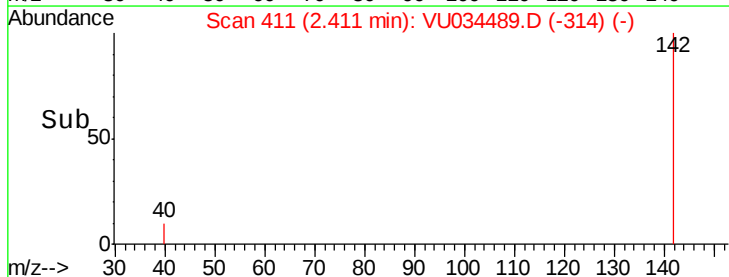
2.41

2.41

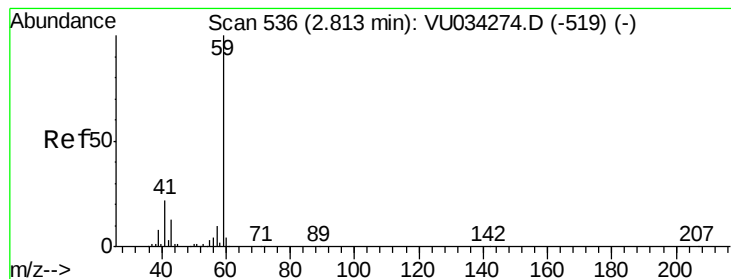
2.41

2.41

2.41



Time-->



#11

Tert butyl alcohol

Concen: 6.661 ug/l

RT: 2.83 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU034489.D

Acq: 11 Sep 2019 21:01

Instrument :

MSVOA_U

ClientSampleId :

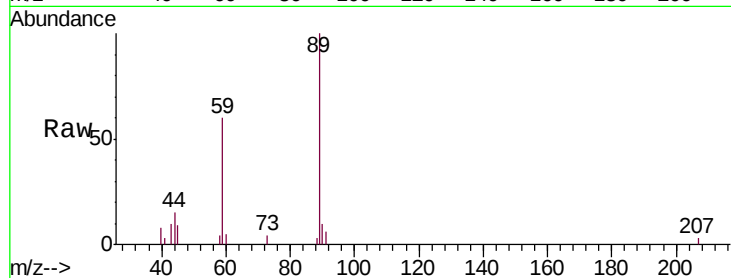
T11-B3-(4)

Tgt Ion: 59 Resp: 5286

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VU034489.D (-519) (-)

Ion 57.00 (56.70 to 57.70): VU034489.D (-519) (-)

2.83

2500

2000

1500

1000

500

0

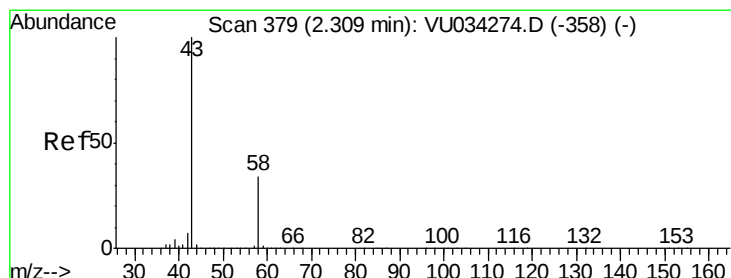
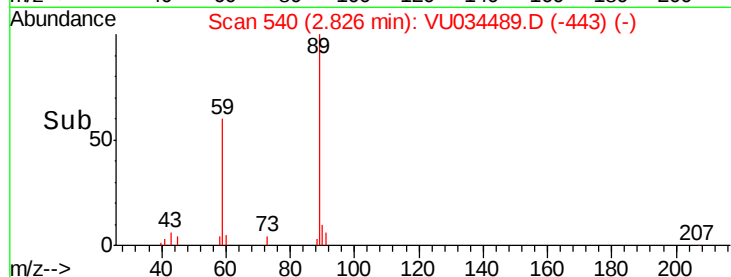
2.75

2.80

2.85

2.90

Time-->



#16

Acetone

Concen: 6.270 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034489.D

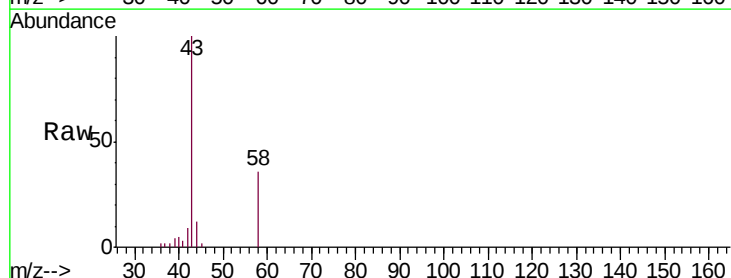
Acq: 11 Sep 2019 21:01

Tgt Ion: 43 Resp: 12188

Ion Ratio Lower Upper

43 100

58 37.5 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU034489.D (-286) (-)

Ion 58.00 (57.70 to 58.70): VU034489.D (-286) (-)

2.31

8000

6000

4000

2000

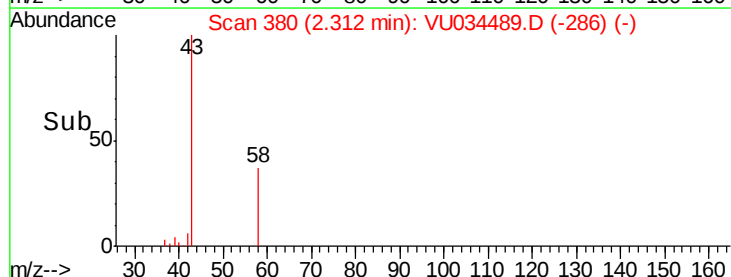
0

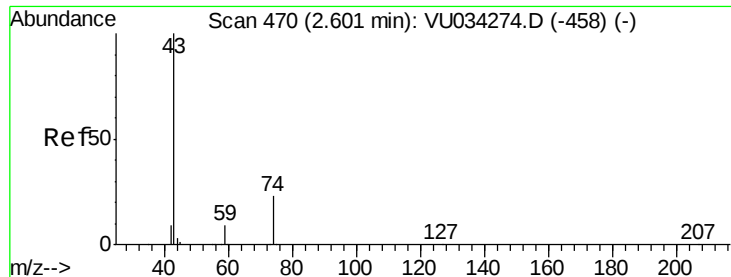
2.25

2.30

2.35

Time-->

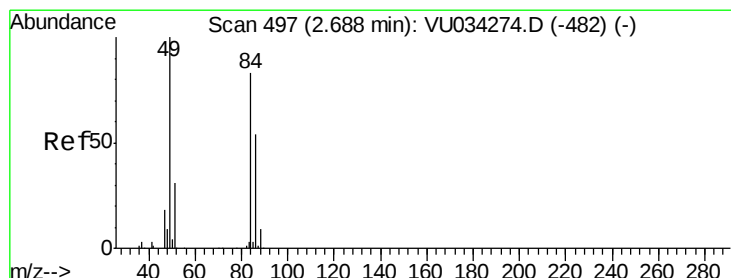
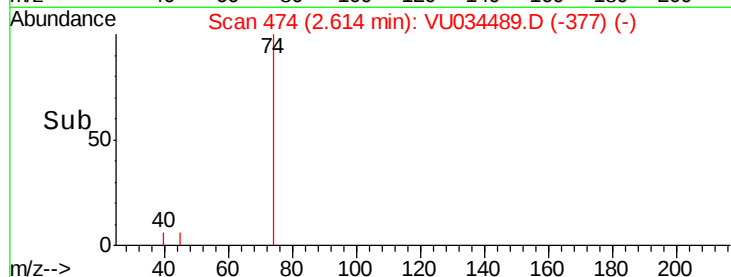
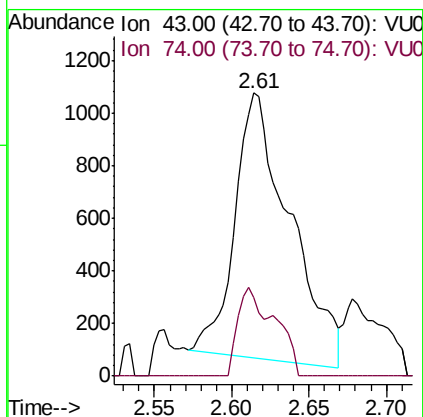
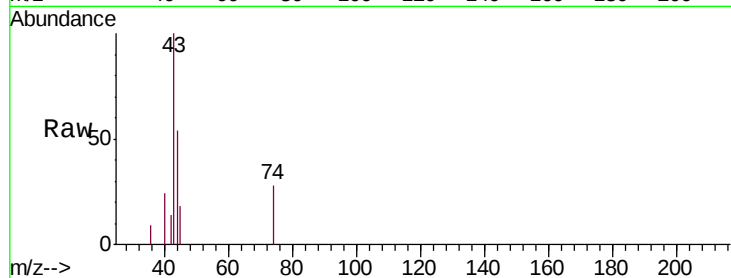




#18
Methyl Acetate
Concen: 0.527 ug/l
RT: 2.61 min Scan# 474
Delta R.T. 0.01 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

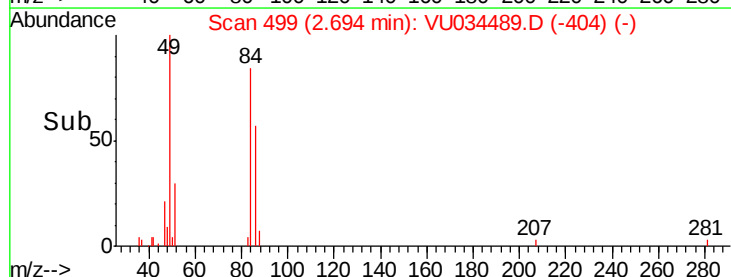
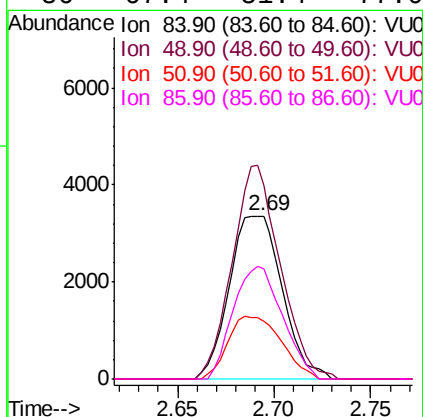
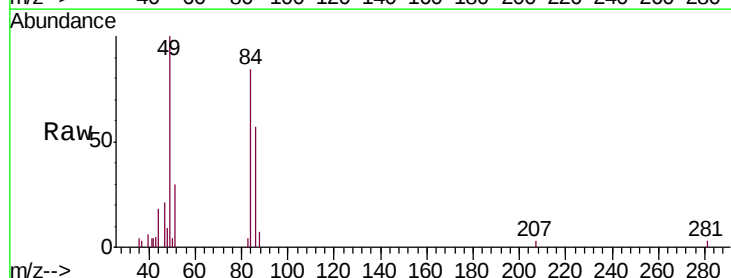
Instrument :
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ClientSampleId :
T11-B3-(4)

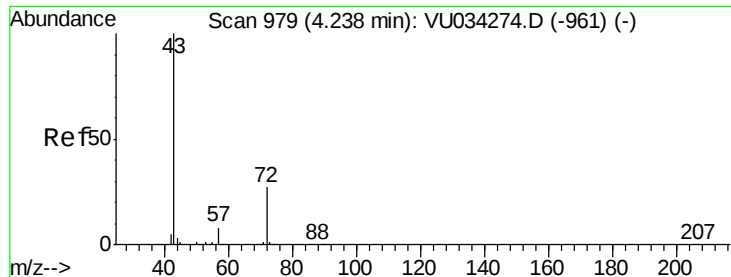
Tgt Ion: 43 Resp: 2493
Ion Ratio Lower Upper
43 100
74 22.3 18.9 28.3



#20
Methylene Chloride
Concen: 1.617 ug/l
RT: 2.69 min Scan# 499
Delta R.T. 0.01 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

Tgt Ion: 84 Resp: 6381
Ion Ratio Lower Upper
84 100
49 119.0 96.0 144.0
51 35.7 30.0 45.0
86 67.4 51.4 77.0

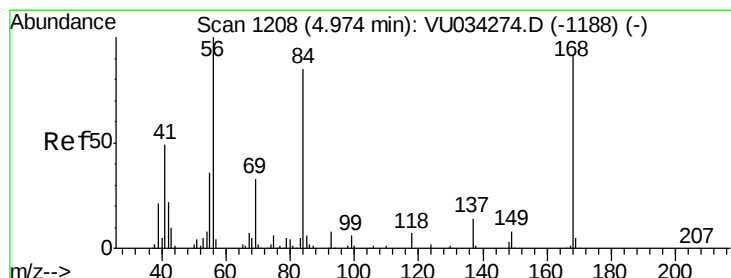
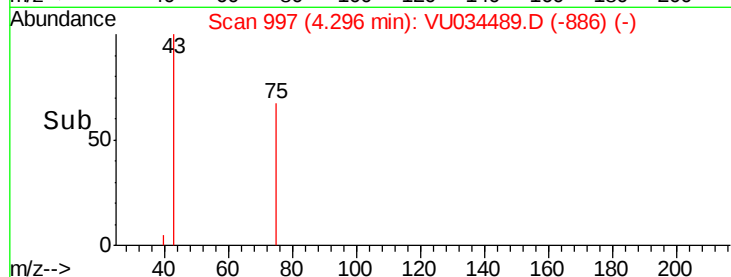
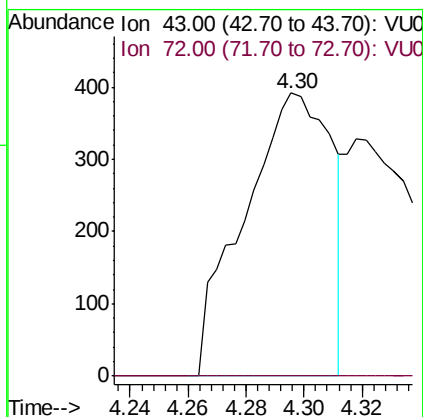
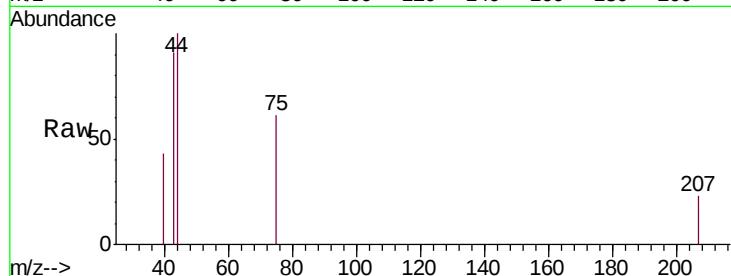




#25
2-Butanone
Concen: 0.315 ug/l
RT: 4.30 min Scan# 997
Delta R.T. 0.06 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

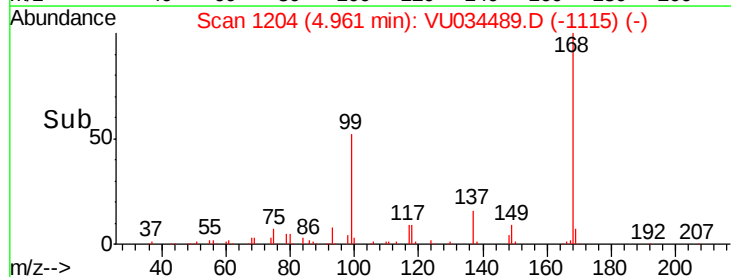
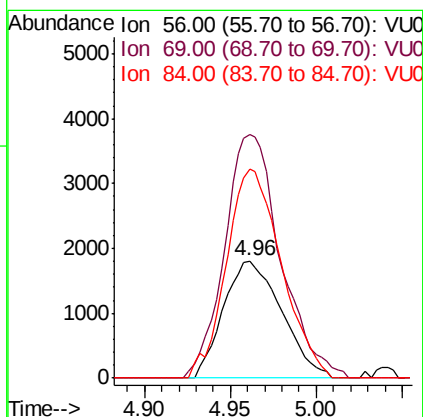
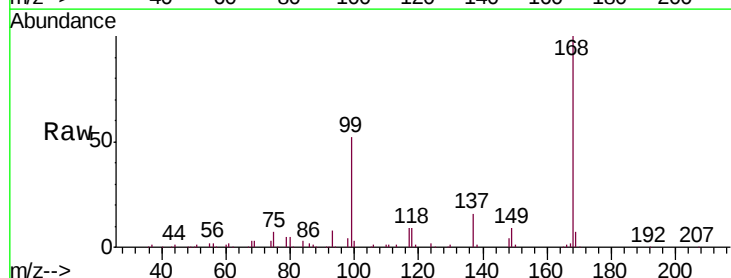
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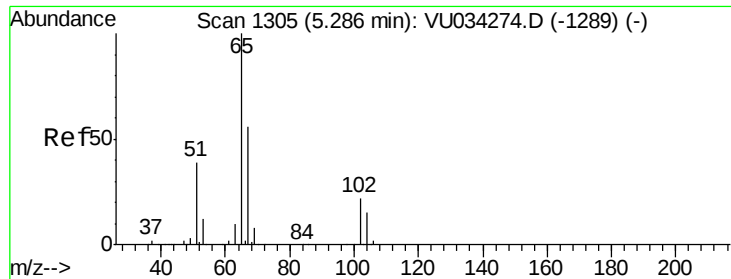
Tgt Ion: 43 Resp: 818
Ion Ratio Lower Upper
43 100
72 0.0 21.8 32.6#



#31
Cyclohexane
Concen: 0.967 ug/l
RT: 4.96 min Scan# 1204
Delta R.T. -0.01 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

Tgt Ion: 56 Resp: 4253
Ion Ratio Lower Upper
56 100
69 201.5 26.7 40.1#
84 178.6 68.2 102.4#

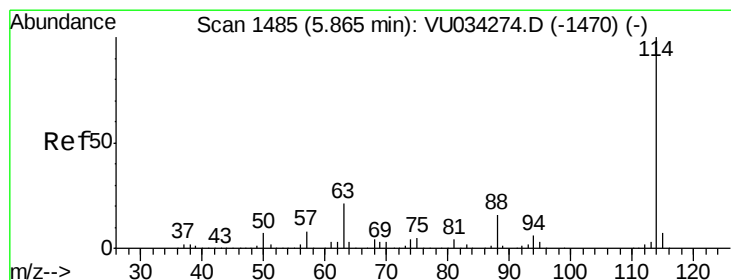
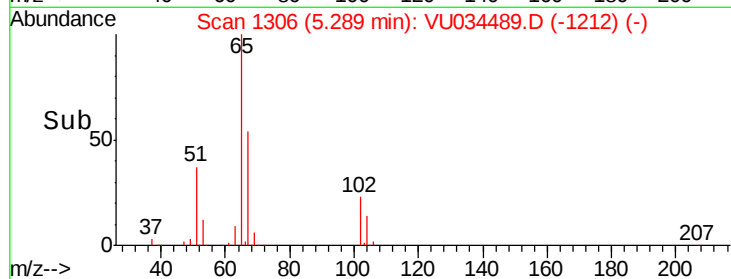
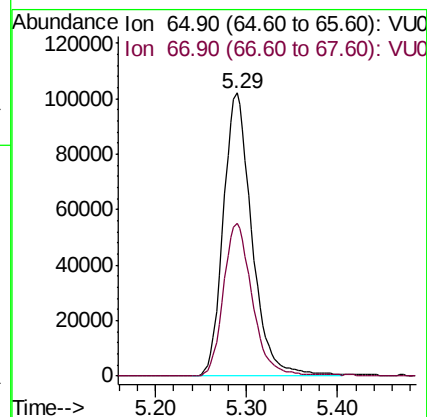
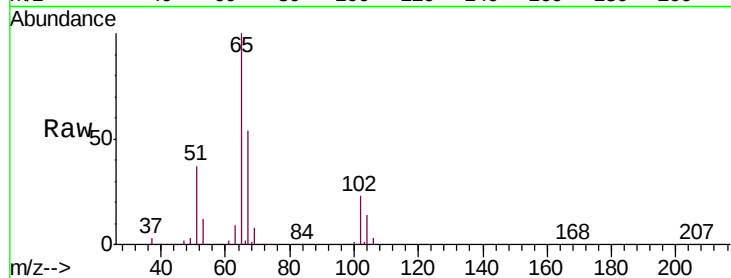




#33
 1,2-Dichloroethane-d4
 Concen: 59.451 ug/l
 RT: 5.29 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

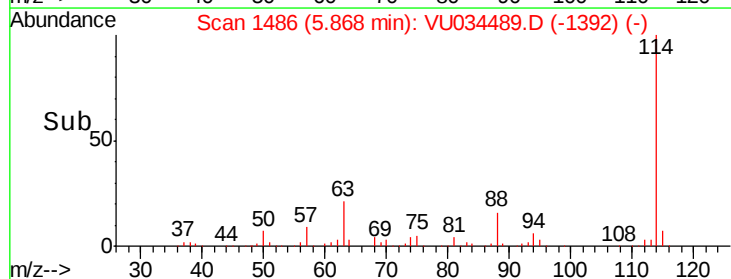
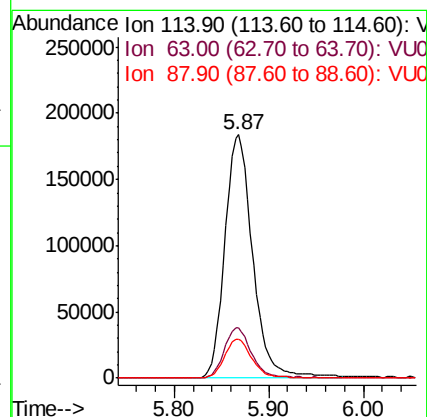
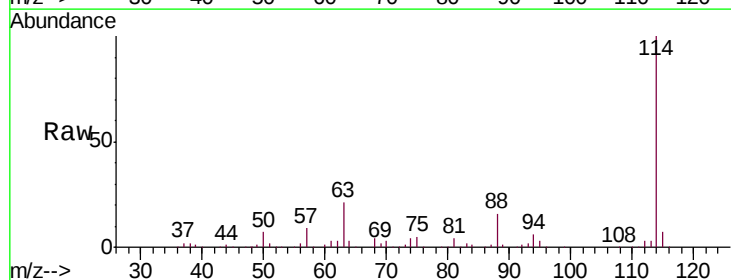
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B3-(4)

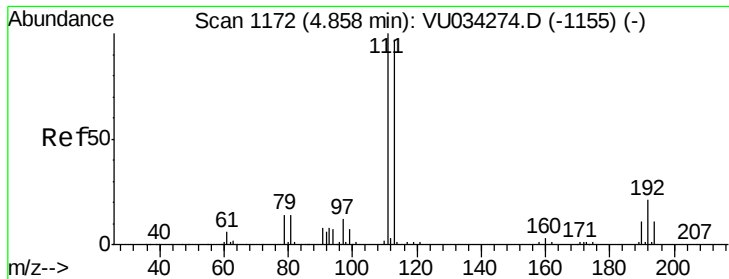
Tgt Ion: 65 Resp: 22321
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 112.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

Tgt Ion: 114 Resp: 377624
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.4
 88 16.2 0.0 32.4

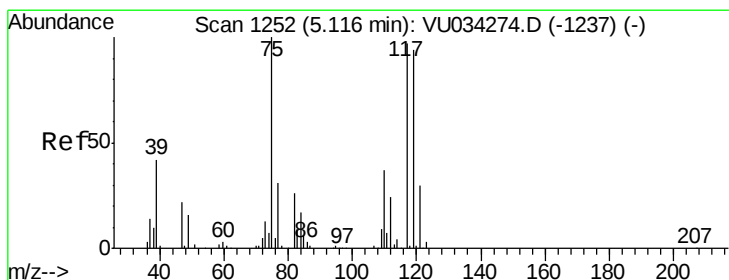
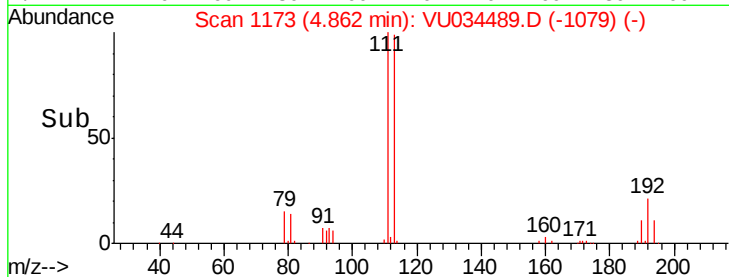
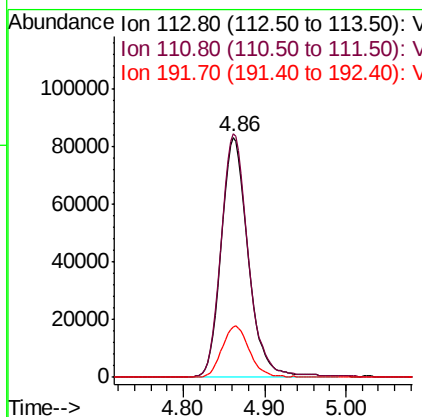
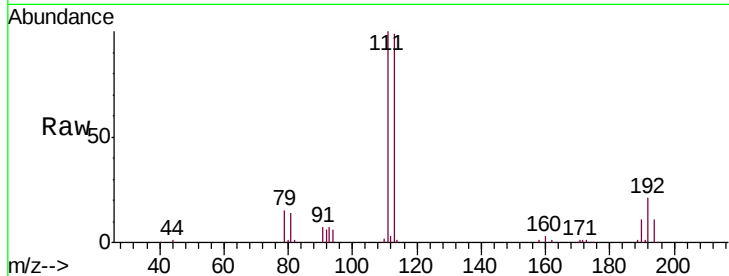




#35
 Dibromofluoromethane
 Concen: 55.661 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

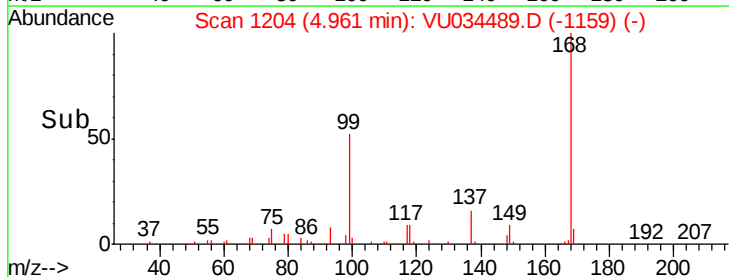
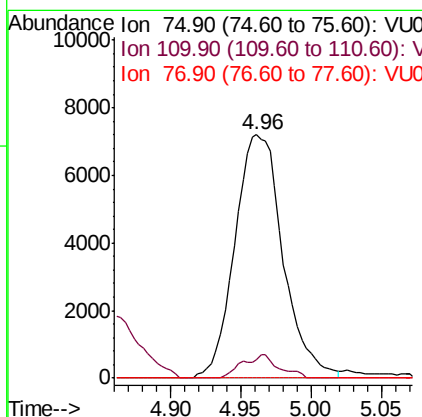
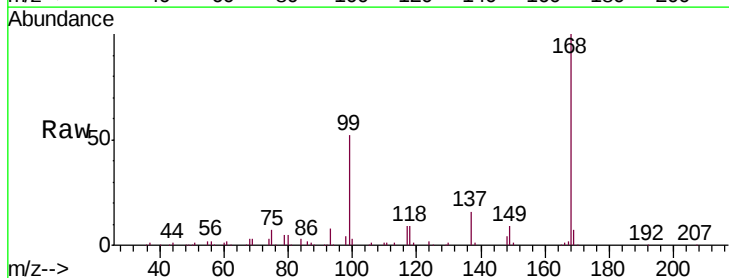
Instrument :
 MSVOA_U
 ClientSampled :
 T11-B3-(4)

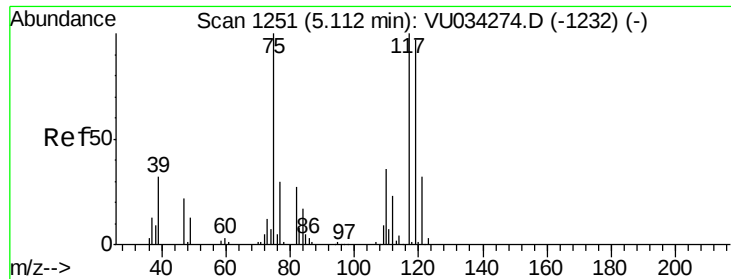
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.5	122.3
192	21.7	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.193 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.3	18.3	54.9#
77	0.0	24.9	37.3#

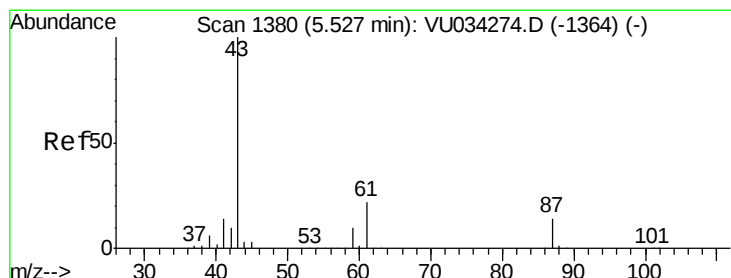
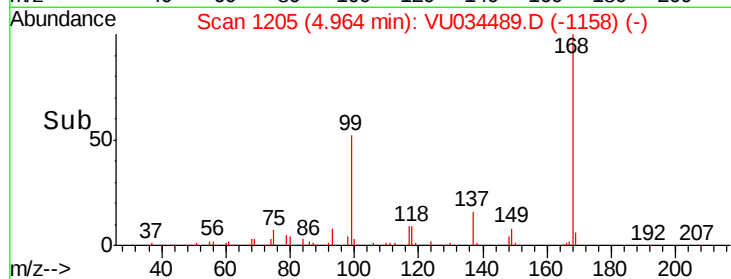
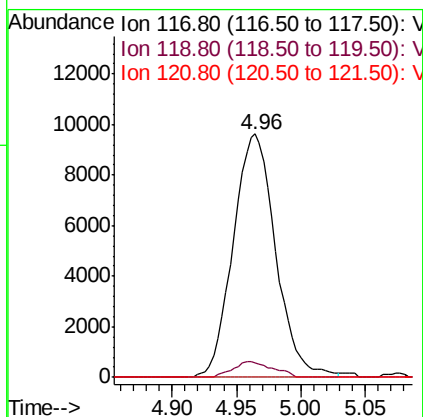
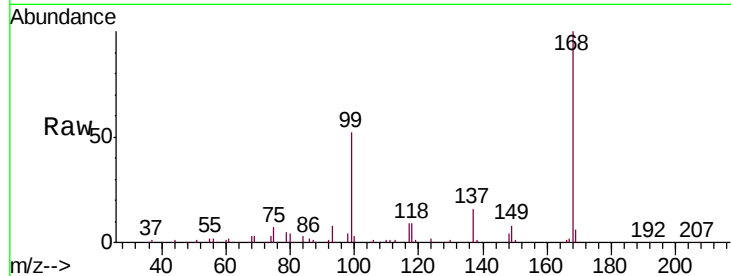




#38
Carbon Tetrachloride
Concen: 5.048 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.15 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

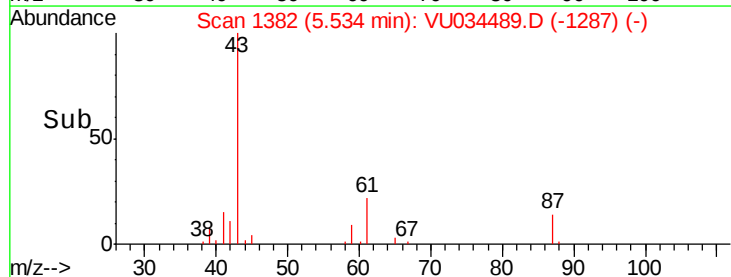
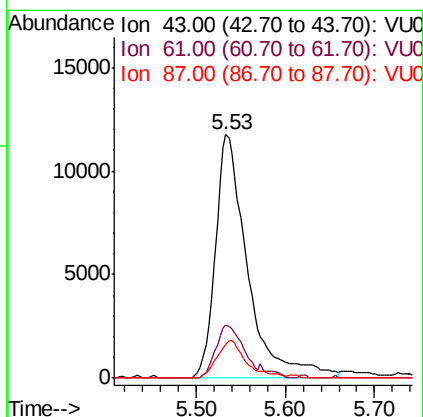
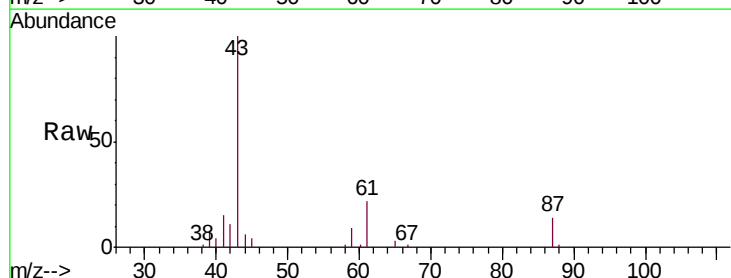
Instrument :
MSVOA_U
ClientSampleId :
T11-B3-(4)

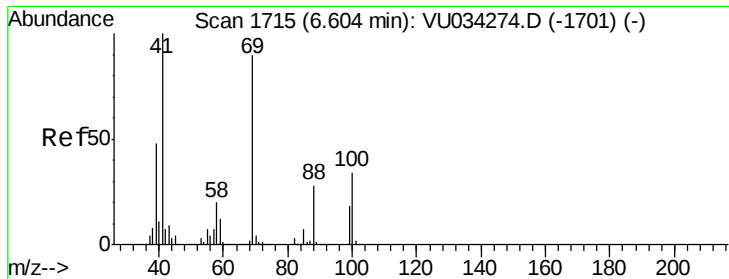
Tgt Ion: 117 Resp: 22075
Ion Ratio Lower Upper
117 100
119 6.0 77.8 116.6#
121 0.0 25.2 37.8#



#43
Isopropyl Acetate
Concen: 3.899 ug/l
RT: 5.53 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

Tgt Ion: 43 Resp: 29450
Ion Ratio Lower Upper
43 100
61 18.2 17.1 25.7
87 13.9 11.1 16.7

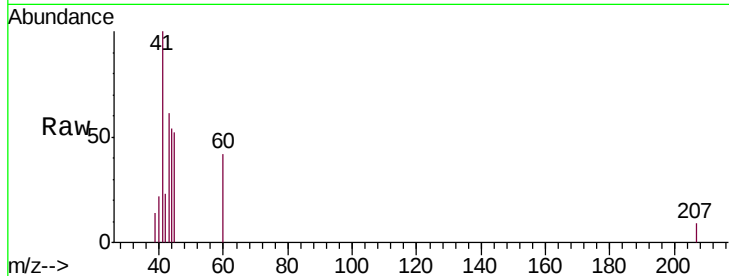




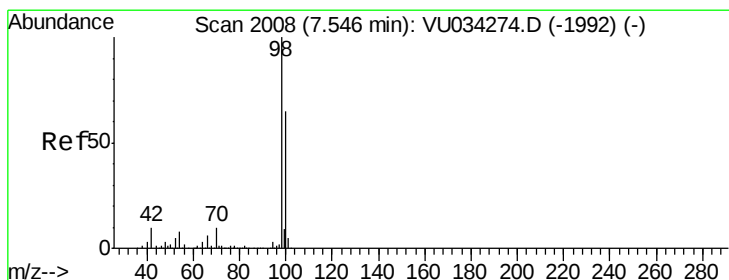
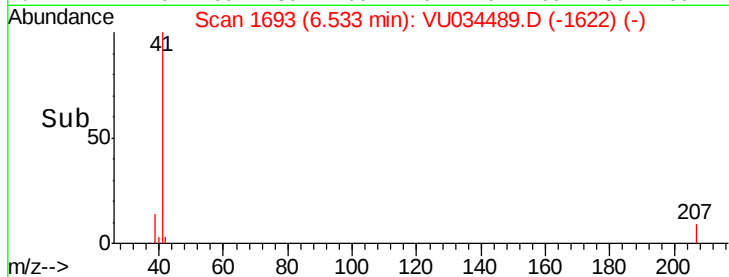
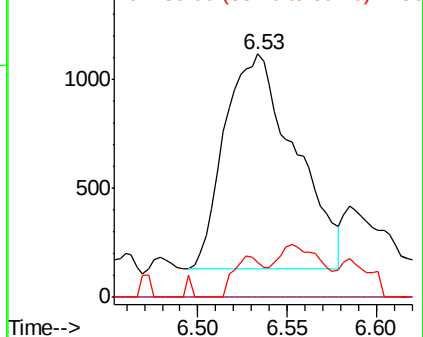
#48
Methyl methacrylate
Concen: 0.758 ug/l
RT: 6.53 min Scan# 1693
Delta R.T. -0.07 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

Instrument :
MSVOA_U
ClientSampleId :
T11-B3-(4)

Tgt Ion: 41 Resp: 2718
Ion Ratio Lower Upper
41 100
69 0.0 72.8 109.2#
39 0.0 38.6 58.0#

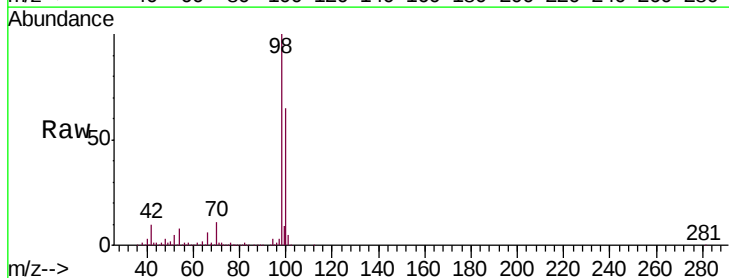


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

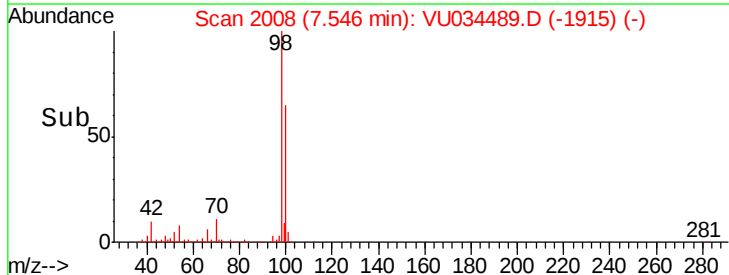
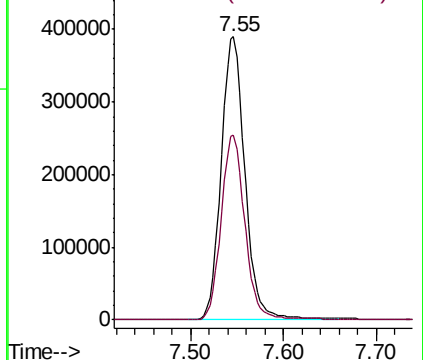


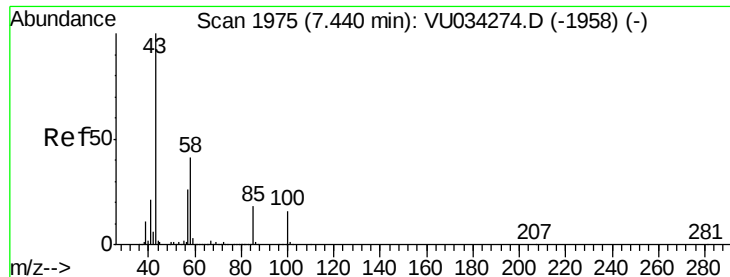
#50
Toluene-d8
Concen: 52.748 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

Tgt Ion: 98 Resp: 696352
Ion Ratio Lower Upper
98 100
100 65.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0





#51

4-Methyl-2-Pentanone

Concen: 7.167 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU034489.D

Acq: 11 Sep 2019 21:01

Instrument :

MSVOA_U

ClientSampleId :

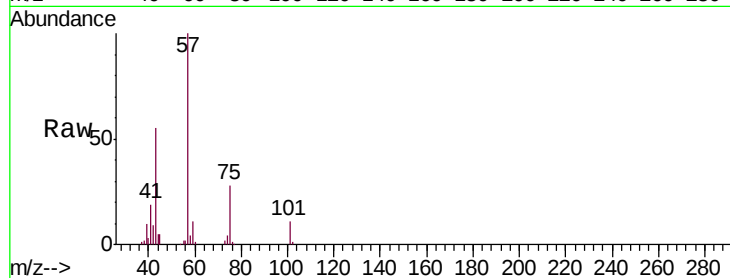
T11-B3-(4)

Tgt Ion: 43 Resp: 37475

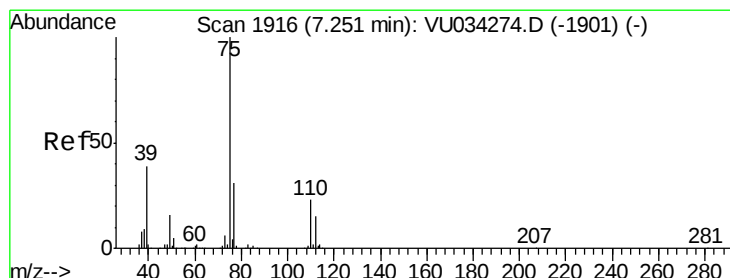
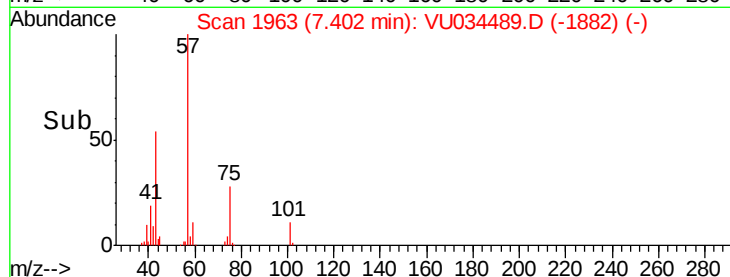
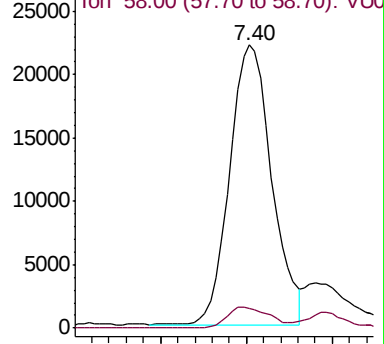
Ion Ratio Lower Upper

43 100

58 7.6 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VU034489.D (-1882) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.634 ug/l

RT: 7.40 min Scan# 1963

Delta R.T. 0.15 min

Lab File: VU034489.D

Acq: 11 Sep 2019 21:01

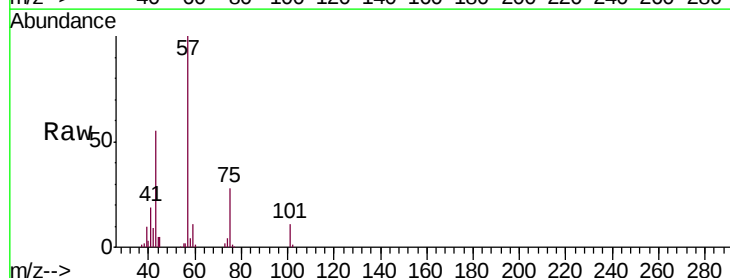
Tgt Ion: 75 Resp: 20637

Ion Ratio Lower Upper

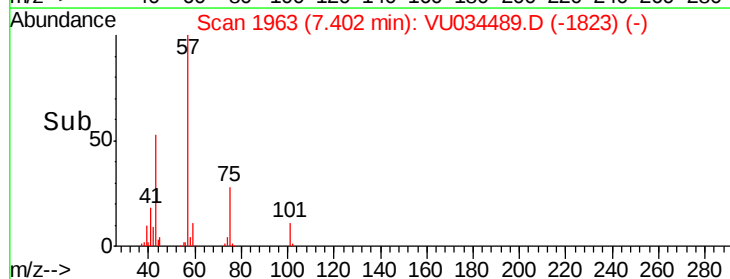
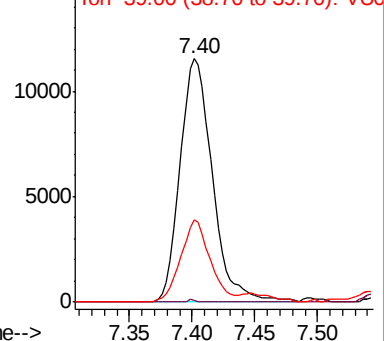
75 100

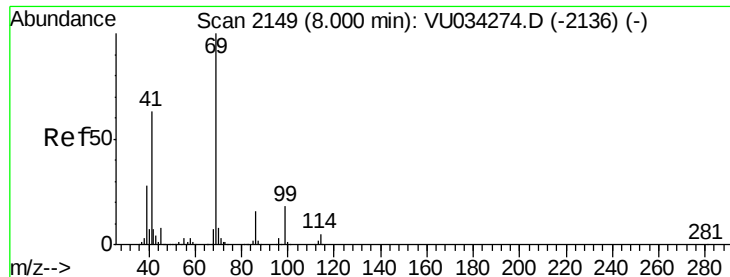
77 1.0 25.1 37.7#

39 33.7 31.2 46.8



Abundance Ion 74.90 (74.60 to 75.60): VU034489.D (-1823) (-)





#56

Ethyl methacrylate

Concen: 3.094 ug/l

RT: 7.97 min Scan# 2141

Delta R.T. -0.03 min

Lab File: VU034489.D

Acq: 11 Sep 2019 21:01

Instrument :

MSVOA_U

ClientSampleId :

T11-B3-(4)

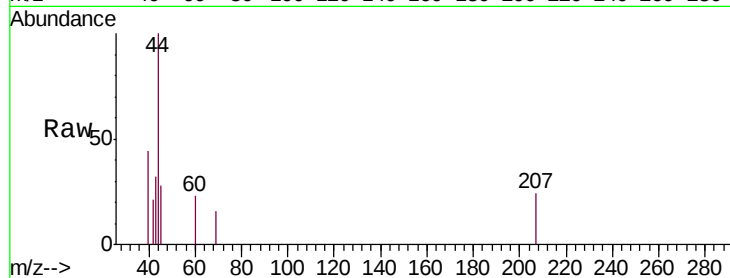
Tgt Ion: 69 Resp: 107

Ion Ratio Lower Upper

69 100

41 0.0 49.5 74.3#

39 0.0 22.5 33.7#

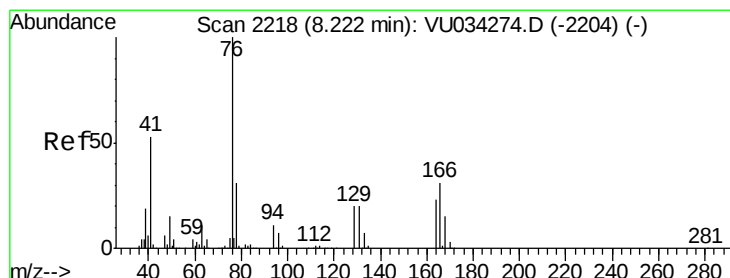
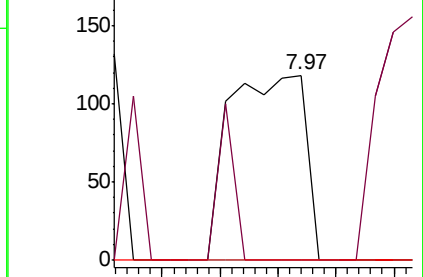
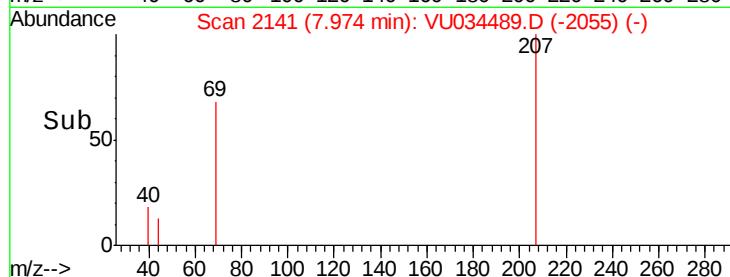


Abundance Ion 69.00 (68.70 to 69.70): VU034489.D (-2055) (-)

Ion 41.00 (40.70 to 41.70): VU034489.D (-2055) (-)

Ion 39.00 (38.70 to 39.70): VU034489.D (-2055) (-)

Time-->



#57

1,3-Dichloropropane

Concen: 0.310 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034489.D

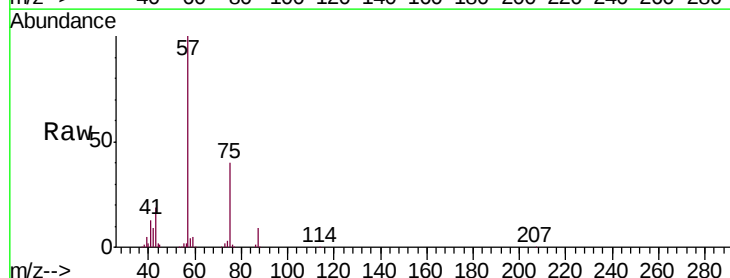
Acq: 11 Sep 2019 21:01

Tgt Ion: 76 Resp: 1898

Ion Ratio Lower Upper

76 100

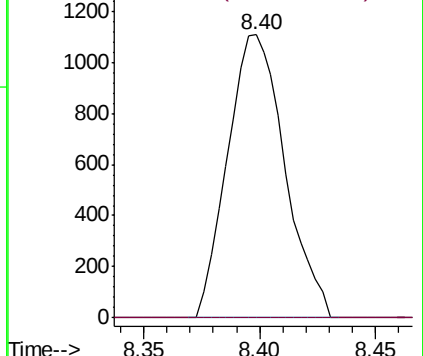
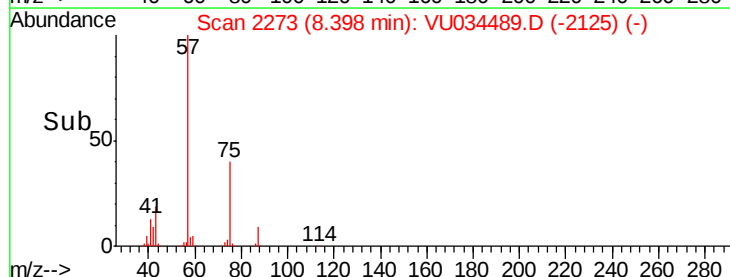
78 0.0 25.4 38.2#

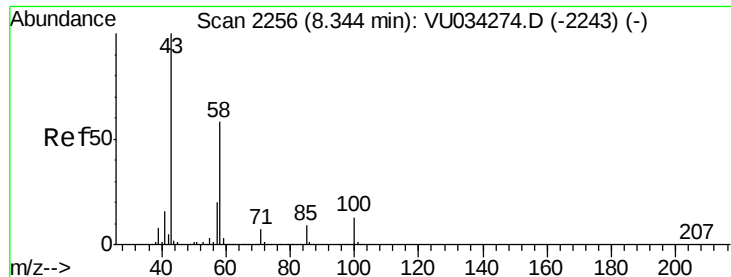


Abundance Ion 75.90 (75.60 to 76.60): VU034489.D (-2125) (-)

Ion 77.90 (77.60 to 78.60): VU034489.D (-2125) (-)

Time-->

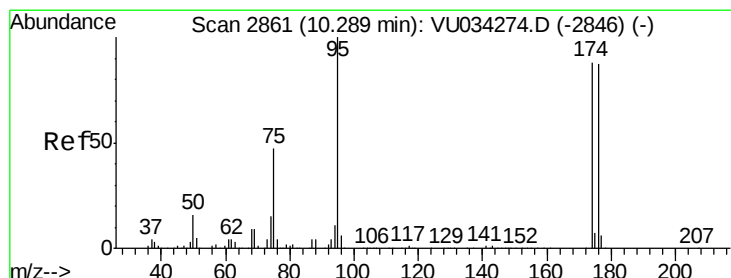
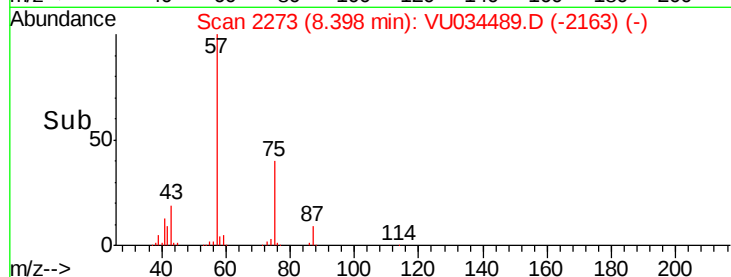
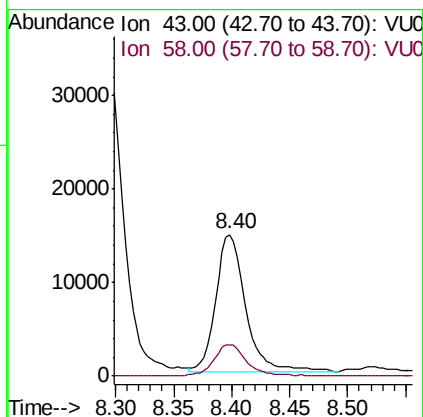
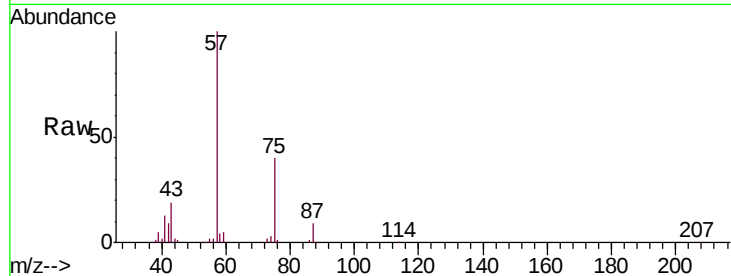




#59
 2-Hexanone
 Concen: 6.776 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

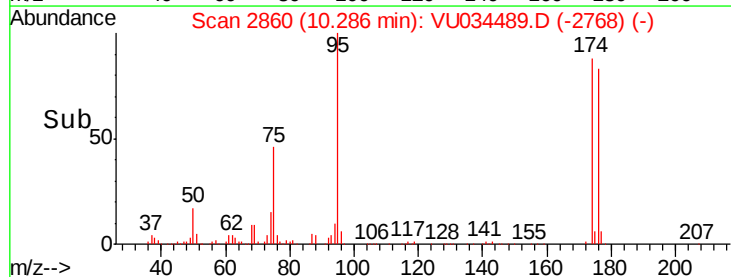
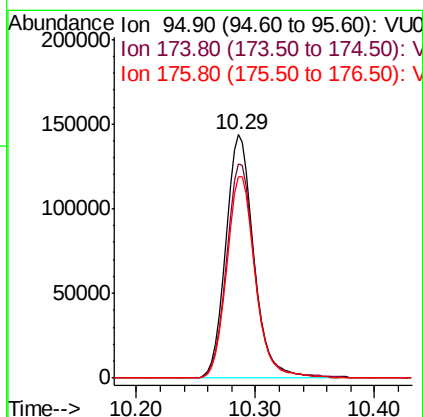
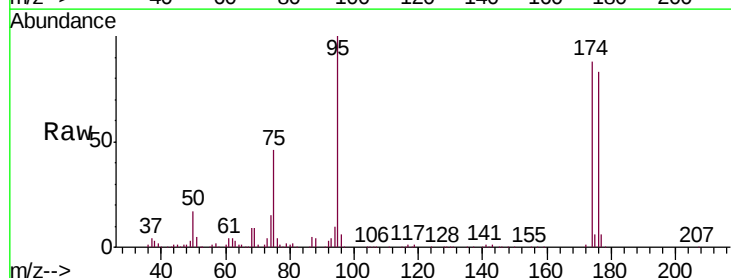
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B3-(4)

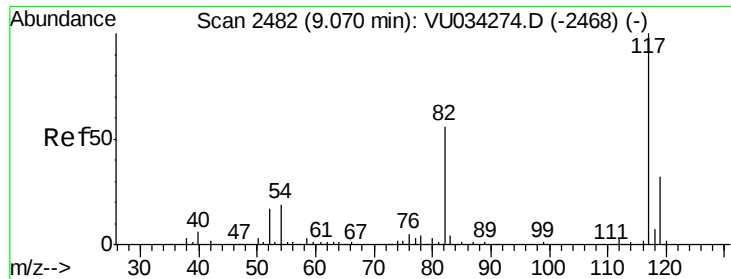
Tgt Ion: 43 Resp: 26467
 Ion Ratio Lower Upper
 43 100
 58 25.3 28.8 86.5#



#62
 4-Bromofluorobenzene
 Concen: 46.027 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.00 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

Tgt Ion: 95 Resp: 234601
 Ion Ratio Lower Upper
 95 100
 174 89.9 0.0 175.2
 176 84.6 0.0 168.0

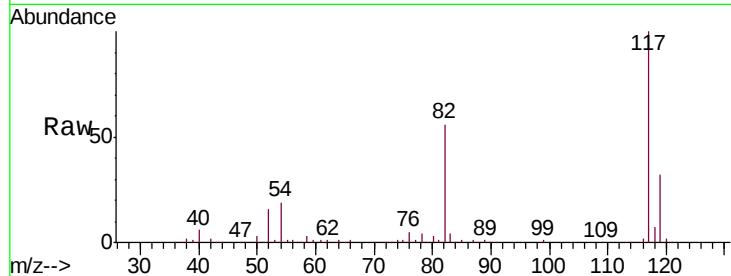




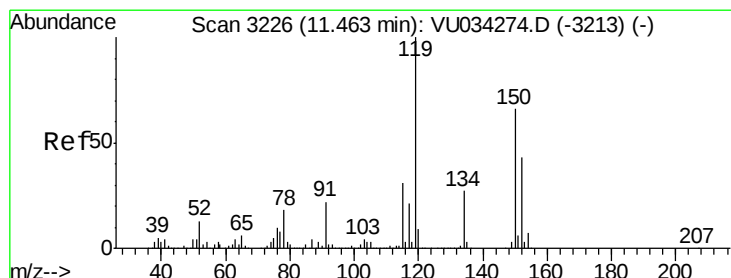
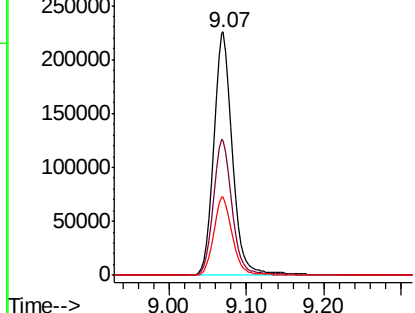
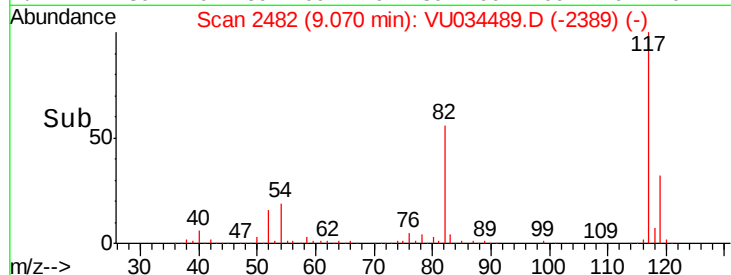
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. -0.00 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

Instrument :
MSVOA_U
ClientSampleId :
T11-B3-(4)

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.6	67.0
119	32.2	25.9	38.9

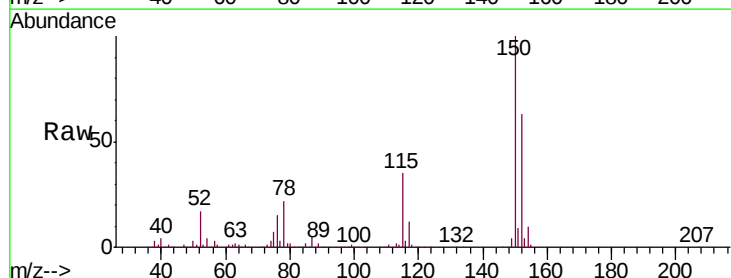


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU034489.D (-2389) (-)
Ion 118.90 (118.60 to 119.60): V

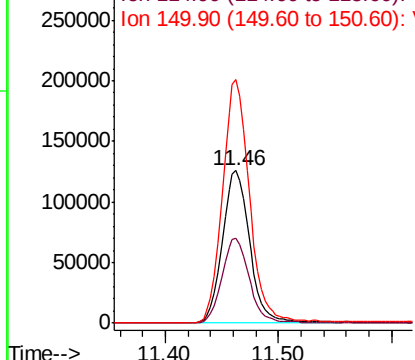
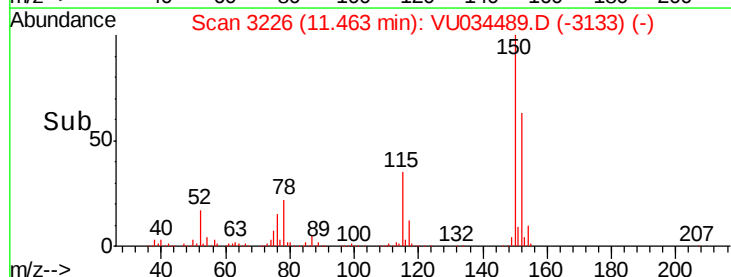


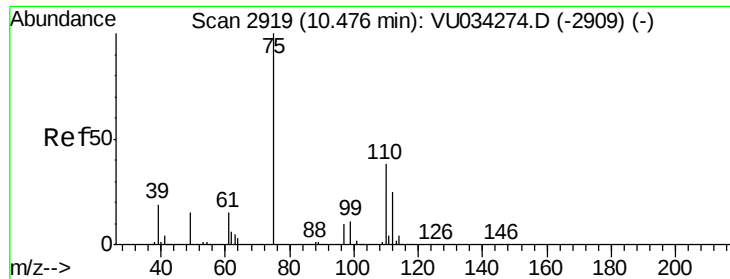
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034489.D
Acq: 11 Sep 2019 21:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.3	39.1	117.3
150	159.6	0.0	345.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): VU034489.D (-3133) (-)
Ion 149.90 (149.60 to 150.60): V

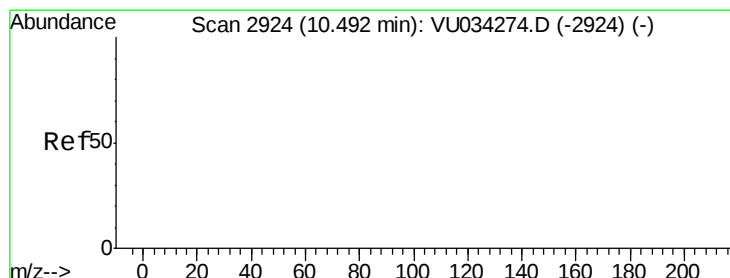
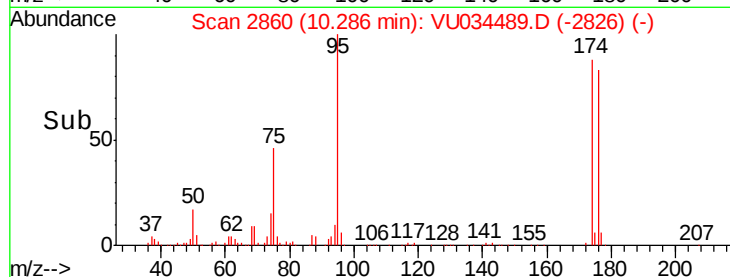
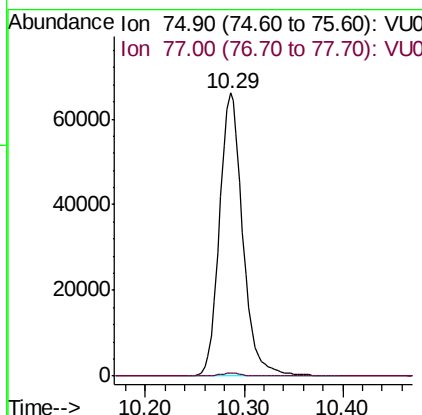
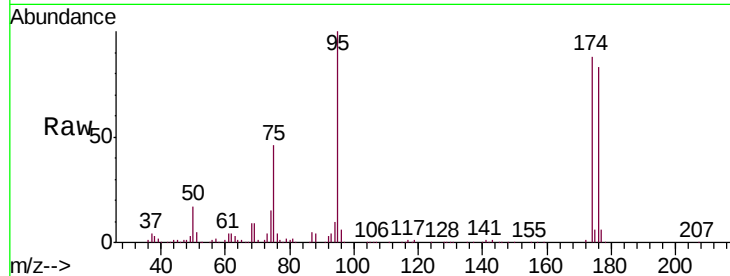




#76
 1,2,3-Trichloropropane
 Concen: 23.677 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.19 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

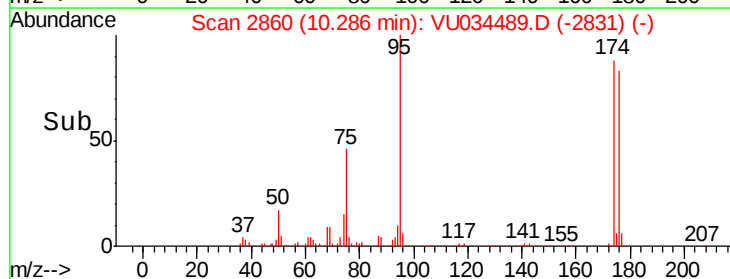
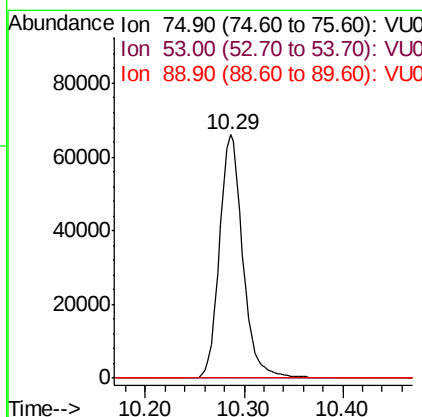
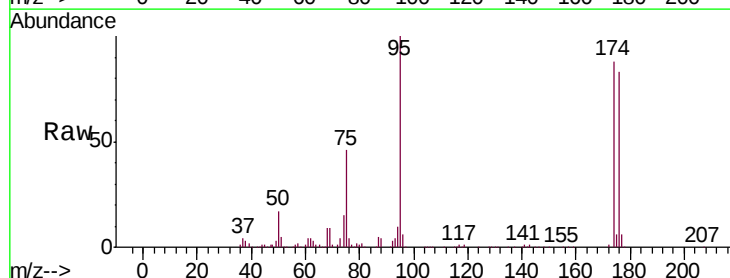
Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B3-(4)

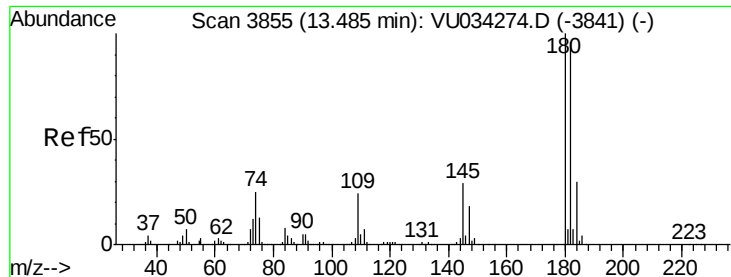
Tgt Ion: 75 Resp: 109786
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.8 62.2#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 79.623 ug/l
 RT: 10.29 min Scan# 2860
 Delta R.T. -0.21 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

Tgt Ion: 75 Resp: 109786
 Ion Ratio Lower Upper
 75 100
 53 0.2 0.0 0.0#
 89 0.0 0.0 0.0

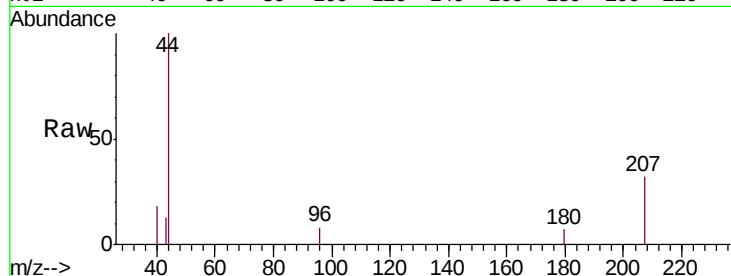




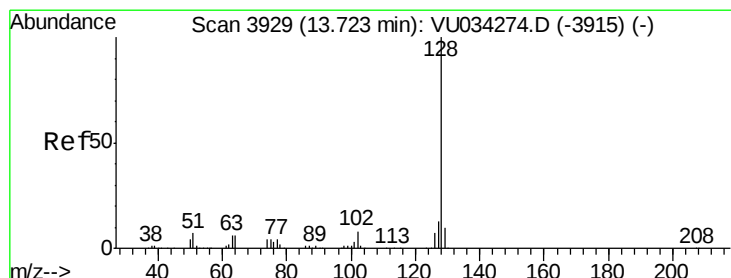
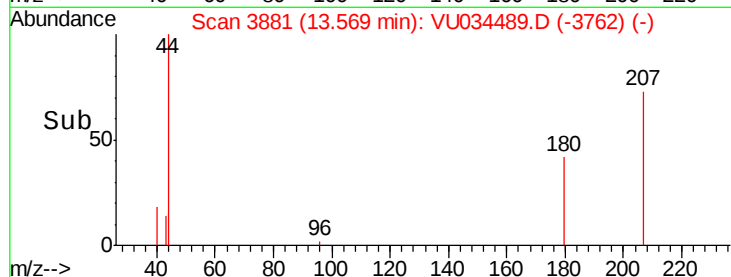
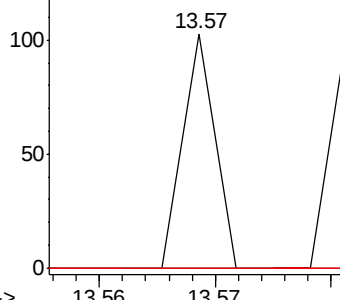
#93
 1,2,4-Trichlorobenzene
 Concen: 3.455 ug/l
 RT: 13.57 min Scan# 3881
 Delta R.T. 0.08 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

Instrument :
 MSVOA_U
 ClientSampleId :
 T11-B3-(4)

Tgt Ion:180 Resp: 20
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 14.4 43.0#

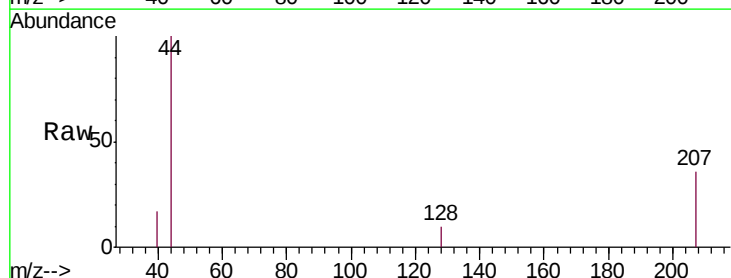


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.972 ug/l
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.05 min
 Lab File: VU034489.D
 Acq: 11 Sep 2019 21:01

Tgt Ion:128 Resp: 99
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 8.4 12.6#



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

