

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090319\
 Data File : VU034202.D
 Acq On : 02 Sep 2019 15:12
 Operator : JC/SP
 Sample : K4544-36
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C2-(2.25)

Quant Time: Sep 03 05:55:08 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	436511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.87	114	712393	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.07	117	707620	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.46	152	343999	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	277088	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
35) Dibromofluoromethane	4.86	113	234337	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
50) Toluene-d8	7.55	98	934073	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
62) 4-Bromofluorobenzene	10.29	95	324333	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	

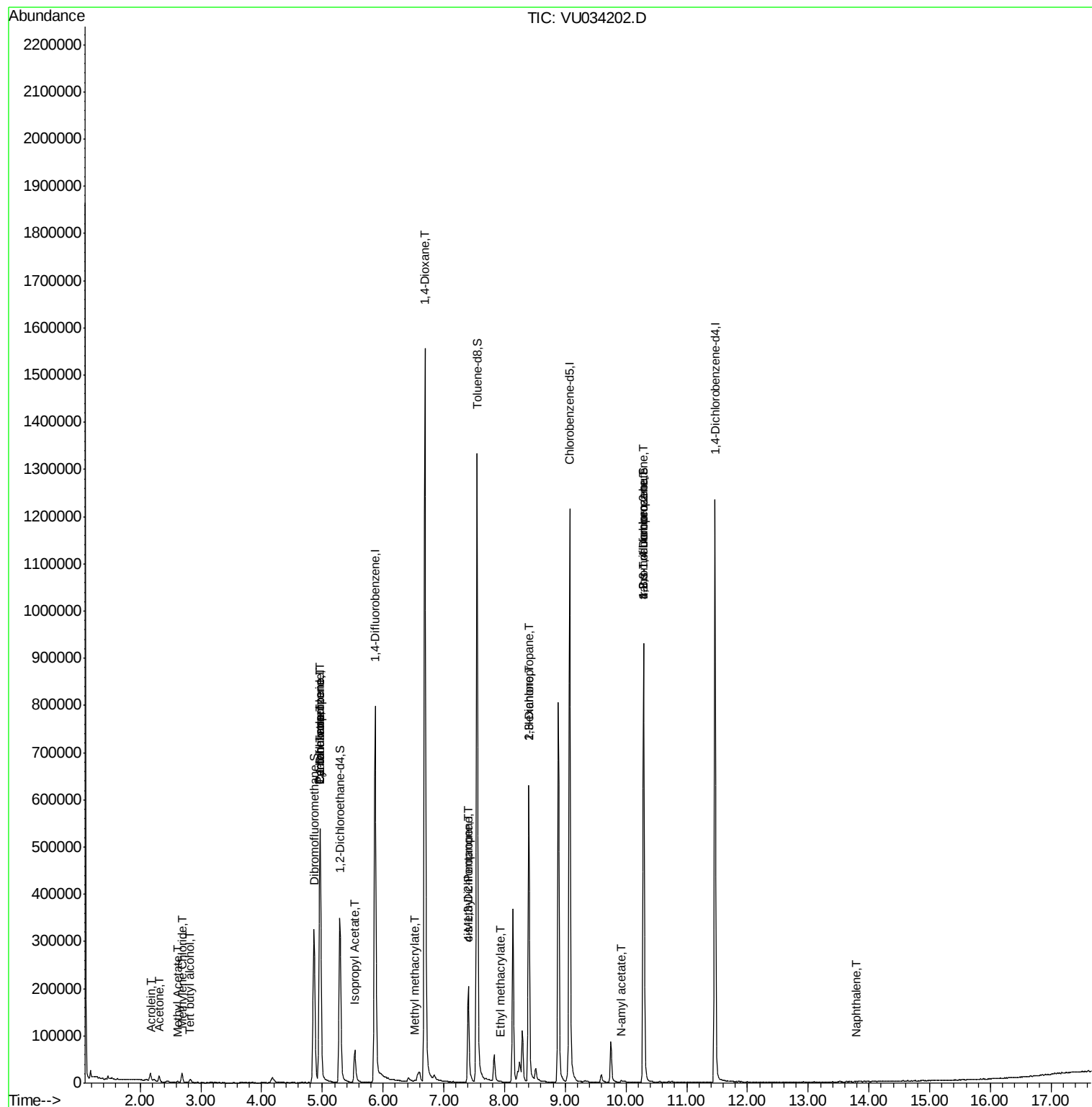
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	429	Below Cal		93
5) Bromomethane	1.63	94	473	Below Cal	#	74
11) Tert butyl alcohol	2.82	59	4481	3.474	ug/l #	73
13) Acrolein	2.19	56	229	0.422	ug/l #	44
16) Acetone	2.31	43	14558	5.101	ug/l	98
18) Methyl Acetate	2.61	43	2897	0.393	ug/l	98
20) Methylene Chloride	2.69	84	8735	1.617	ug/l	98
31) Cyclohexane	4.96	56	7802	0.934	ug/l #	1
36) 1,1-Dichloropropene	4.96	75	31693	4.703	ug/l #	48
38) Carbon Tetrachloride	4.96	117	41024	6.307	ug/l #	16
43) Isopropyl Acetate	5.53	43	86201	7.509	ug/l	97
48) Methyl methacrylate	6.53	41	6534	1.180	ug/l #	14
49) 1,4-Dioxane	6.68	88	113	0.814	ug/l #	22
51) 4-Methyl-2-Pentanone	7.40	43	77517	9.778	ug/l #	46
54) cis-1,3-Dichloropropene	7.40	75	38396	4.478	ug/l #	63
56) Ethyl methacrylate	7.93	69	238	0.998	ug/l #	27
57) 1,3-Dichloropropane	8.40	76	6431	0.713	ug/l #	42
59) 2-Hexanone	8.40	43	90838	15.178	ug/l #	52
74) N-amyl acetate	9.92	43	2240	0.230	ug/l #	46
76) 1,2,3-Trichloropropane	10.29	75	154048	19.869	ug/l #	37
81) trans-1,4-Dichloro-2-buten	10.29	75	154048	66.904	ug/l #	100
95) Naphthalene	13.80	128	65	1.793	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: VU034202.D

Acq: 02 Sep 2019 15:12

Instrument :

MSVOA_U

ClientSampleId :

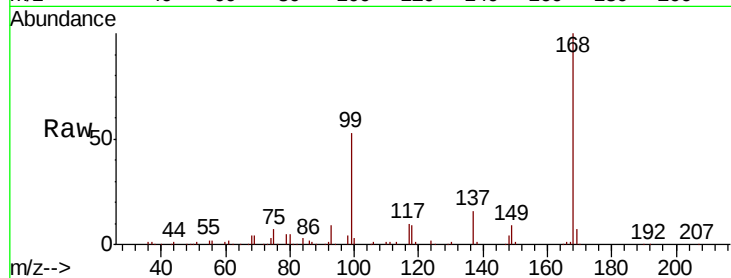
T16-17-C2-(2.25)

Tgt Ion:168 Resp: 436511

Ion Ratio Lower Upper

168 100

99 53.3 42.3 63.5



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

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

4.96

200000

150000

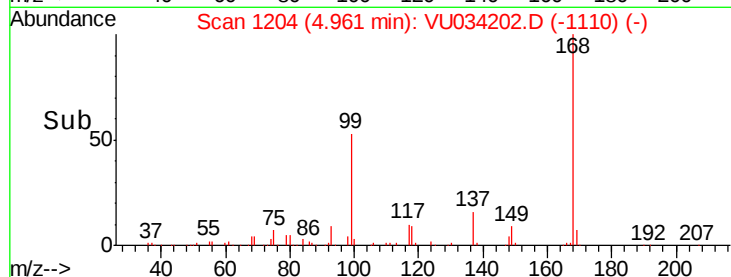
100000

50000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 74

Delta R.T. 0.01 min

Lab File: VU034202.D

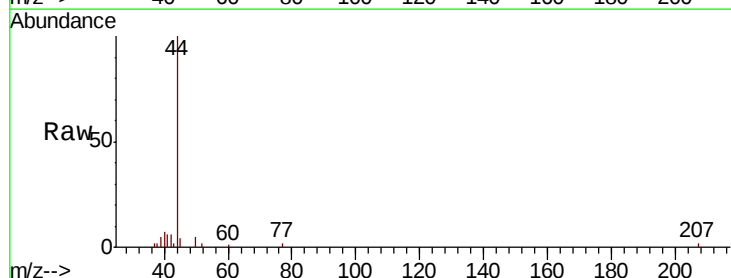
Acq: 02 Sep 2019 15:12

Tgt Ion: 50 Resp: 429

Ion Ratio Lower Upper

50 100

52 36.9 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VU034018.D (-63) (-)

Ion 51.90 (51.60 to 52.60): VU034018.D (-63) (-)

1.33

400

300

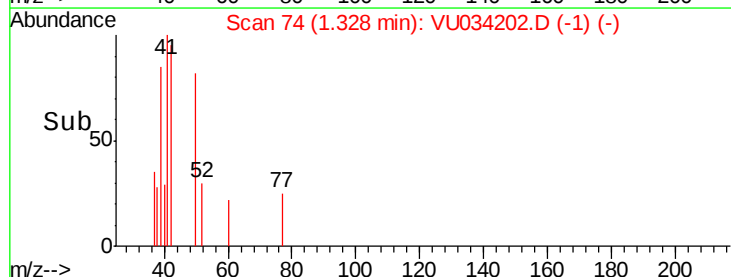
200

100

0

1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 169

Delta R.T. 0.04 min

Lab File: VU034202.D

Acq: 02 Sep 2019 15:12

Instrument :

MSVOA_U

ClientSampleId :

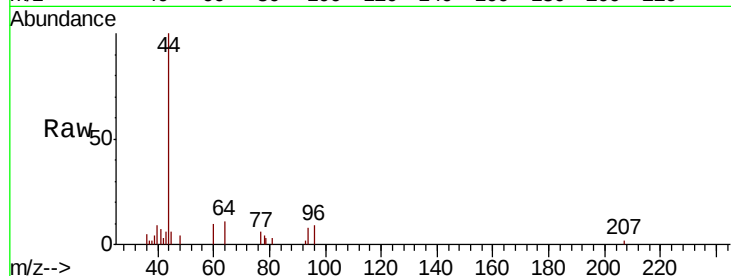
T16-17-C2-(2.25)

Tgt Ion: 94 Resp: 473

Ion Ratio Lower Upper

94 100

96 121.0 76.3 114.5#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

1.63

400

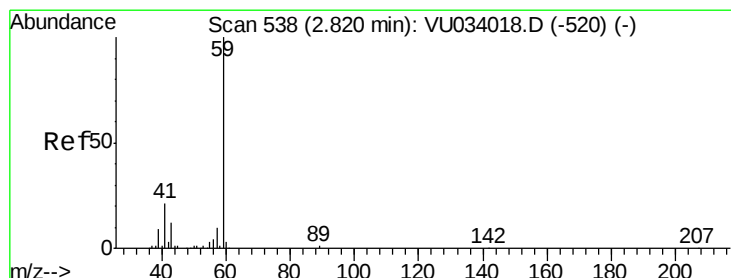
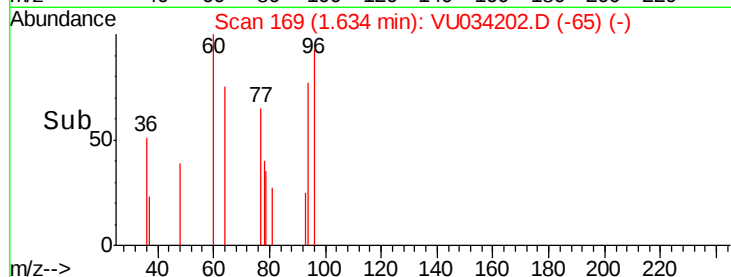
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 3.474 ug/l

RT: 2.82 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU034202.D

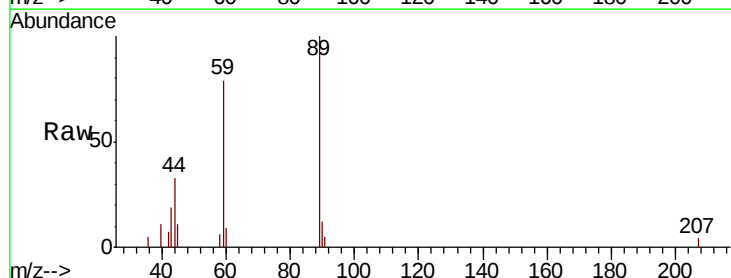
Acq: 02 Sep 2019 15:12

Tgt Ion: 59 Resp: 4481

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

2.82

2500

2000

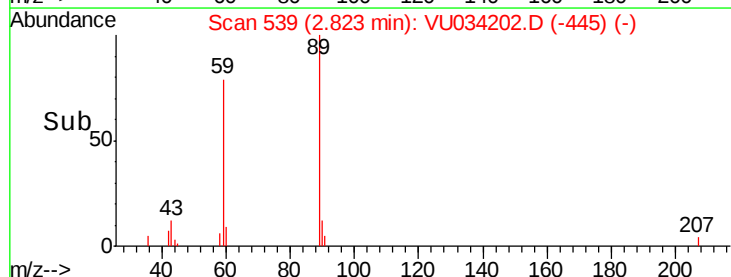
1500

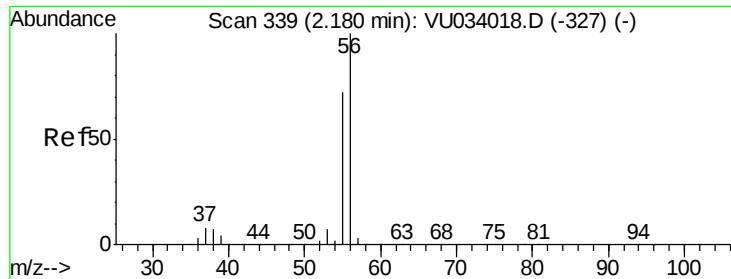
1000

500

0

Time-->





#13

Acrolein

Concen: 0.422 ug/l

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

Lab File: VU034202.D

Acq: 02 Sep 2019 15:12

Instrument :

MSVOA_U

ClientSampleId :

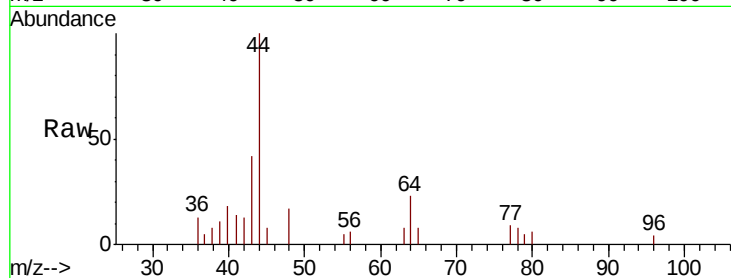
T16-17-C2-(2.25)

Tgt Ion: 56 Resp: 229

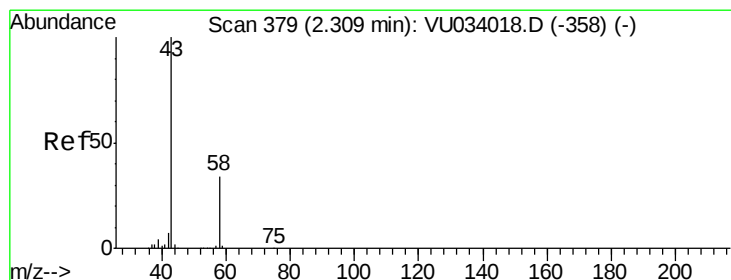
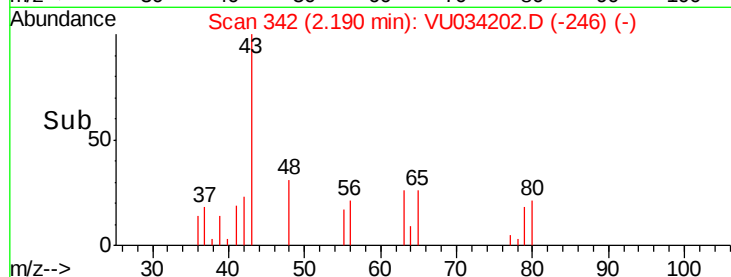
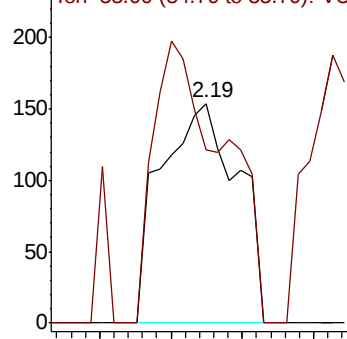
Ion Ratio Lower Upper

56 100

55 117.9 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VU034202.D (-246) (-)



#16

Acetone

Concen: 5.101 ug/l

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU034202.D

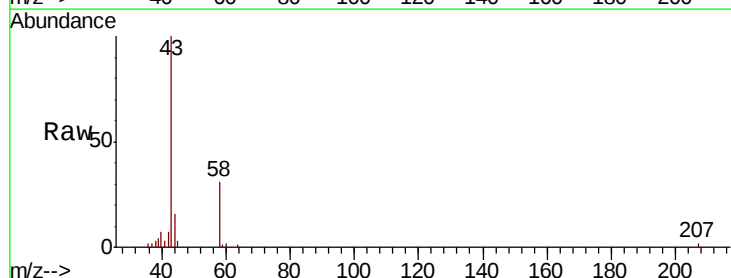
Acq: 02 Sep 2019 15:12

Tgt Ion: 43 Resp: 14558

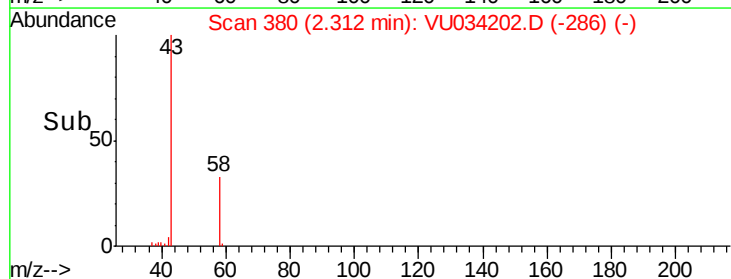
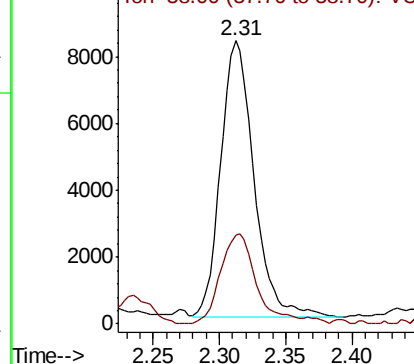
Ion Ratio Lower Upper

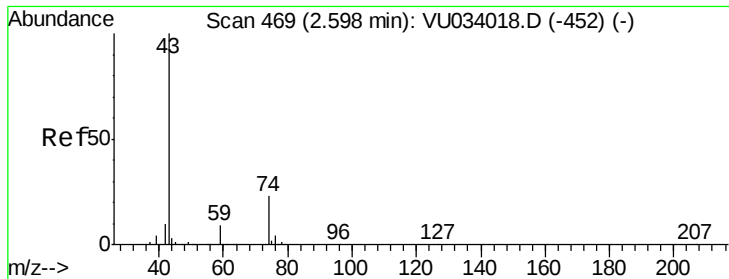
43 100

58 32.1 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VU034202.D (-286) (-)

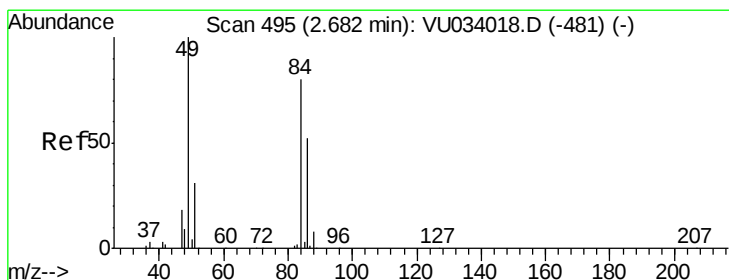
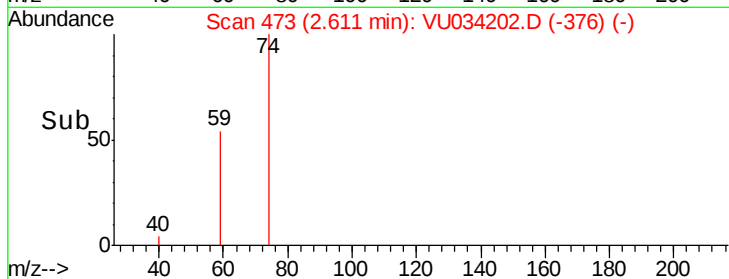
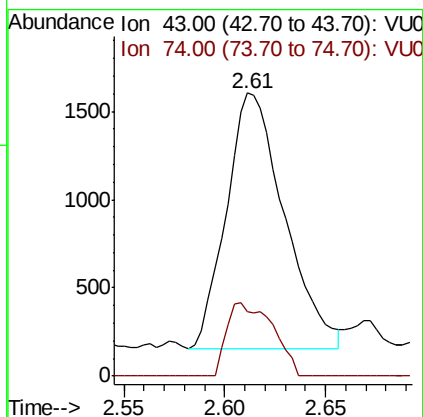
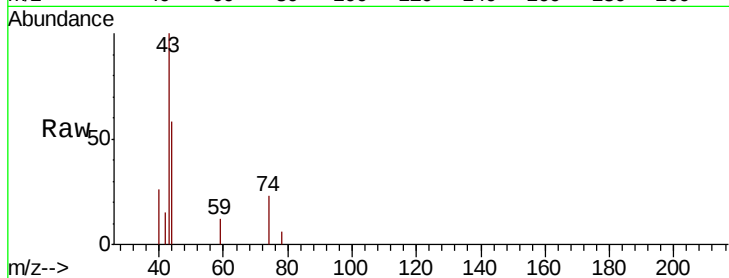




#18
Methyl Acetate
Concen: 0.393 ug/l
RT: 2.61 min Scan# 473
Delta R.T. 0.01 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

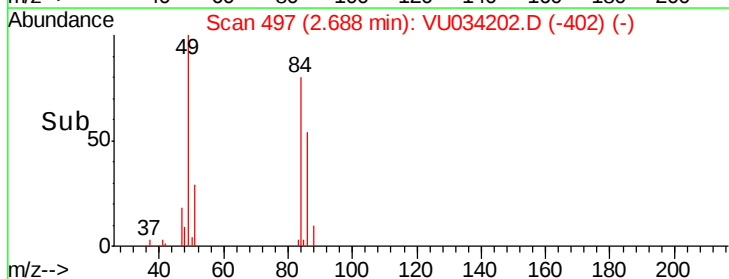
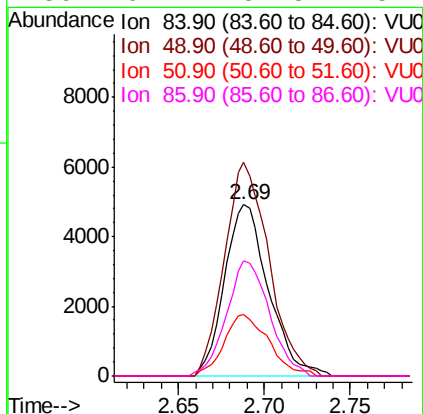
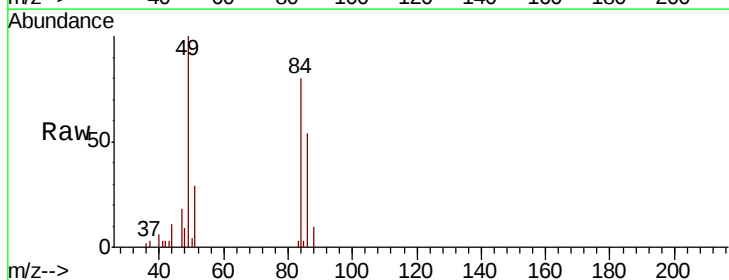
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(2.25)

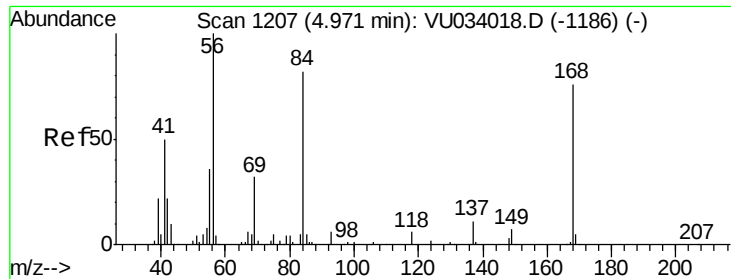
Tgt Ion: 43 Resp: 2897
Ion Ratio Lower Upper
43 100
74 23.2 19.2 28.8



#20
Methylene Chloride
Concen: 1.617 ug/l
RT: 2.69 min Scan# 497
Delta R.T. 0.01 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

Tgt Ion: 84 Resp: 8735
Ion Ratio Lower Upper
84 100
49 124.9 100.2 150.4
51 36.1 30.8 46.2
86 67.7 52.5 78.7

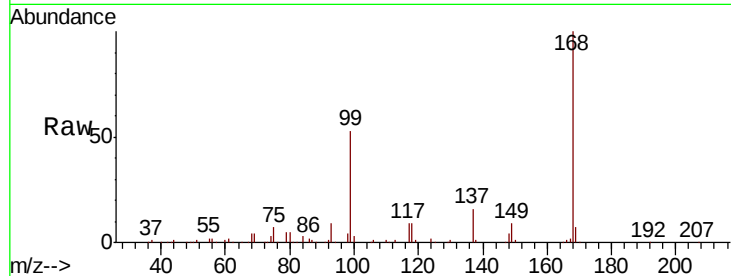




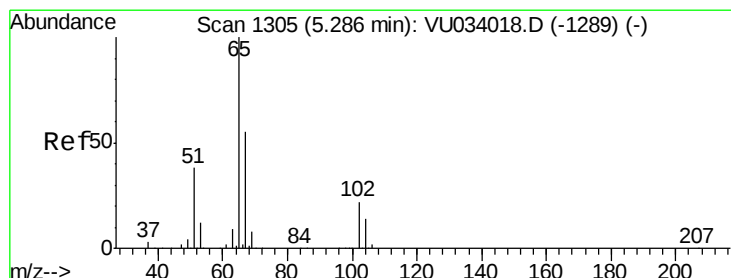
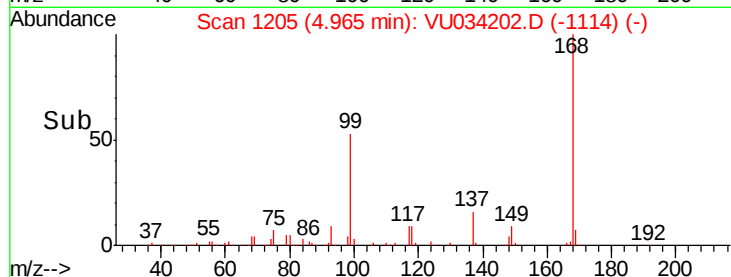
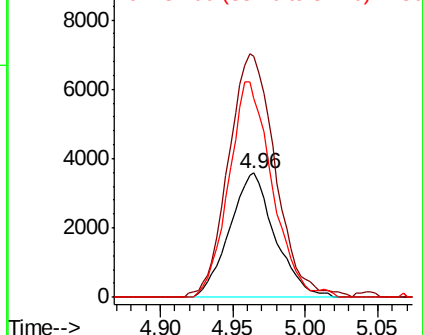
#31
Cyclohexane
Concen: 0.934 ug/l
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(2.25)

Tgt Ion: 56 Resp: 7802
Ion Ratio Lower Upper
56 100
69 190.4 25.4 38.0#
84 159.9 65.8 98.8#

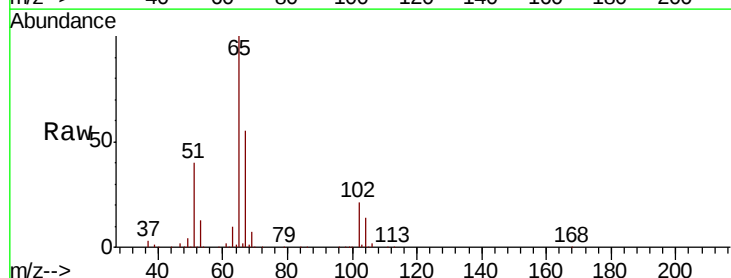


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

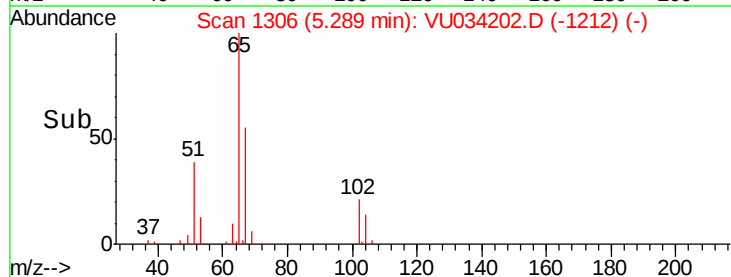
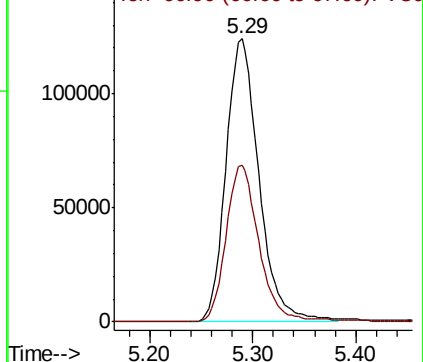


#33
1,2-Dichloroethane-d4
Concen: 49.540 ug/l
RT: 5.29 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

Tgt Ion: 65 Resp: 277088
Ion Ratio Lower Upper
65 100
67 55.6 0.0 110.6



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

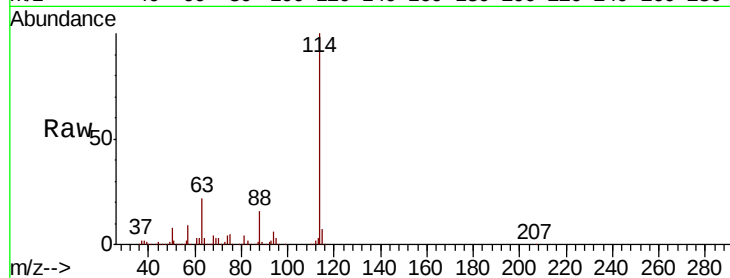




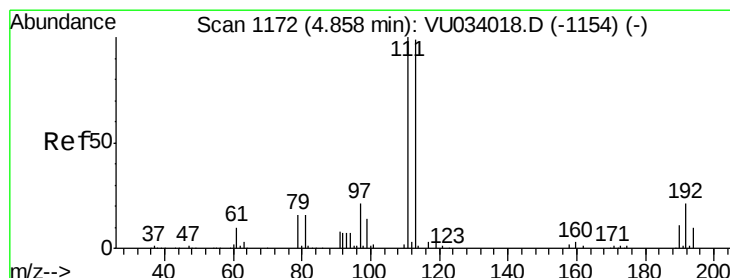
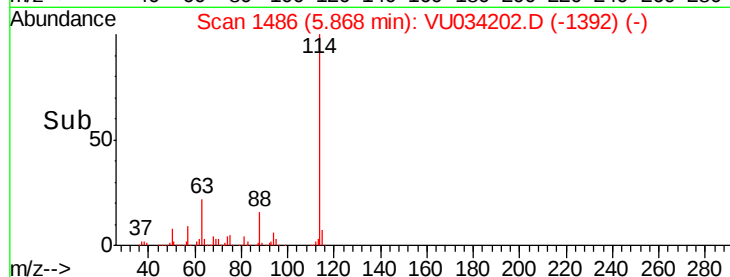
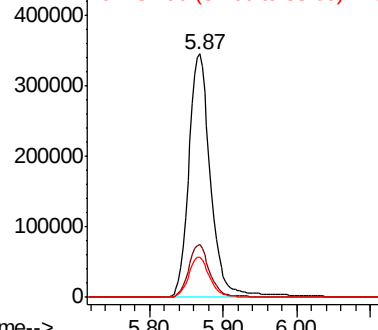
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.87 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VU034202.D
 Acq: 02 Sep 2019 15:12

Instrument :
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Tgt Ion:	114	Resp:	712393
Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	42.0
88	16.3	0.0	32.0

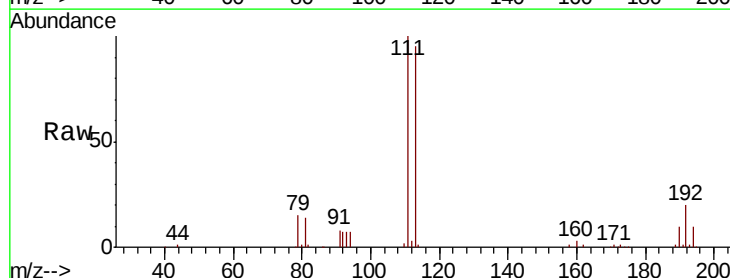


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

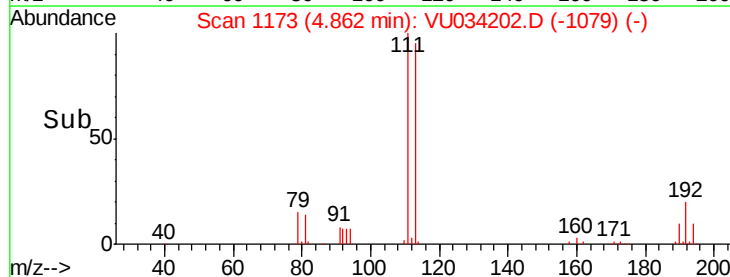
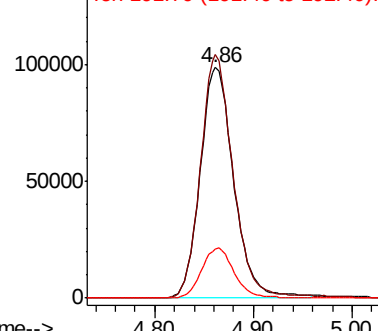


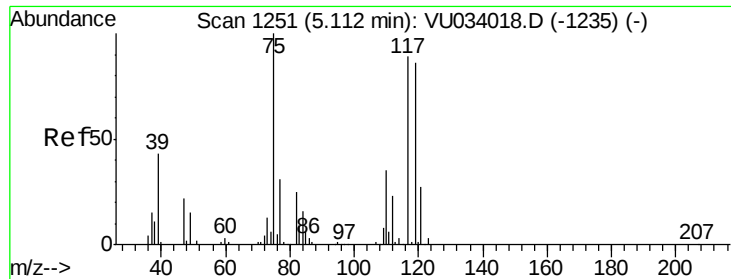
#35
 Dibromofluoromethane
 Concen: 47.426 ug/l
 RT: 4.86 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VU034202.D
 Acq: 02 Sep 2019 15:12

Tgt Ion:	113	Resp:	234337
Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.7	122.5
192	21.3	17.1	25.7



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

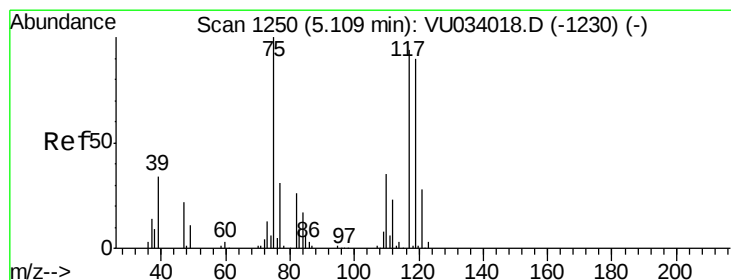
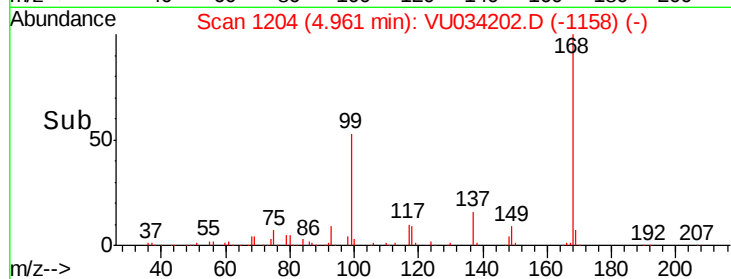
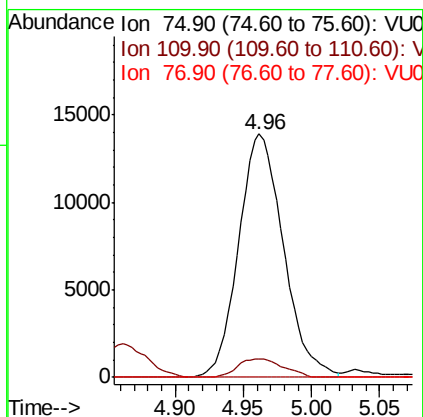
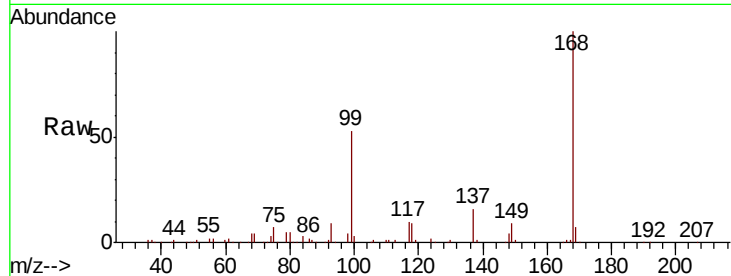




#36
 1,1-Dichloropropene
 Concen: 4.703 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034202.D
 Acq: 02 Sep 2019 15:12

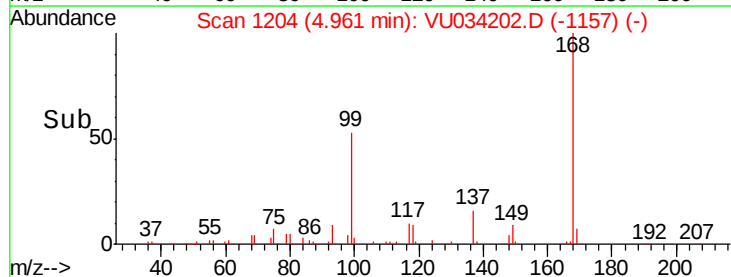
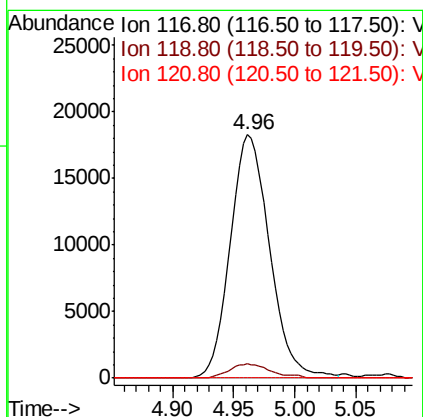
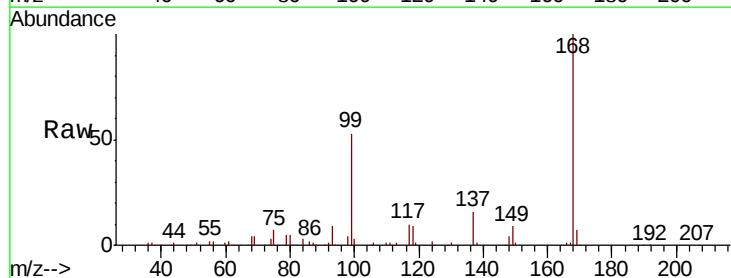
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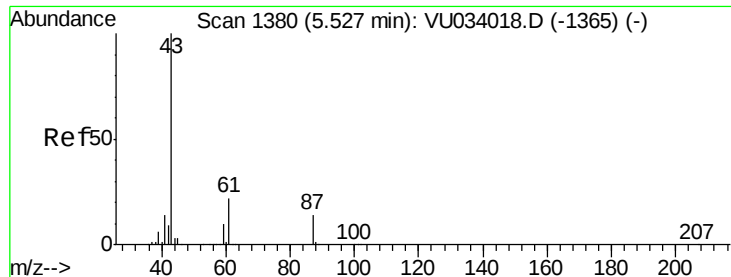
Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.8	53.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.307 ug/l
 RT: 4.96 min Scan# 1204
 Delta R.T. -0.15 min
 Lab File: VU034202.D
 Acq: 02 Sep 2019 15:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	77.0	115.4#
121	0.0	23.9	35.9#





#43

Isopropyl Acetate

Concen: 7.509 ug/l

RT: 5.53 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VU034202.D

Acq: 02 Sep 2019 15:12

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C2-(2.25)

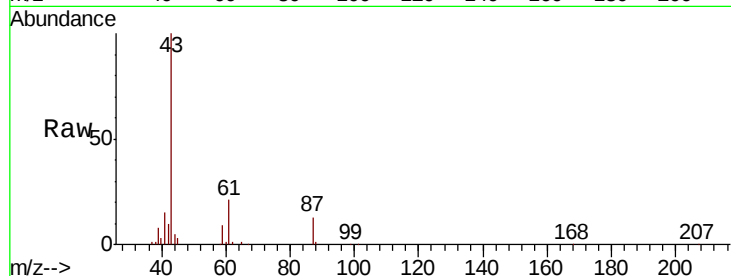
Tgt Ion: 43 Resp: 86201

Ion Ratio Lower Upper

43 100

61 20.0 17.2 25.8

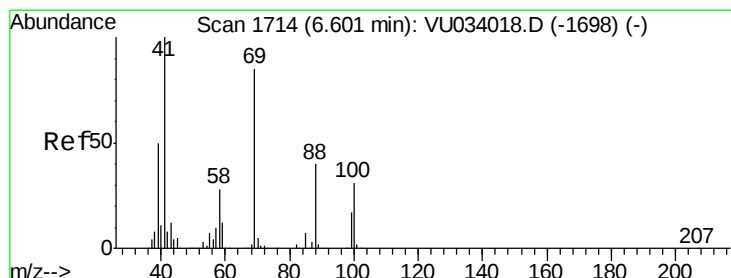
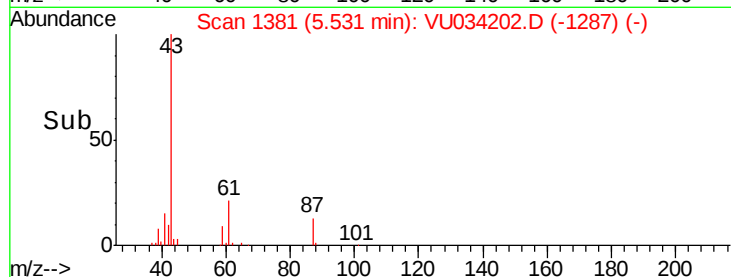
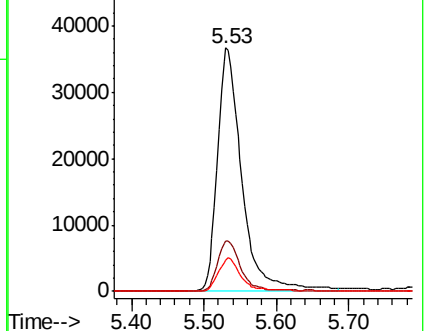
87 12.6 10.8 16.2



Abundance Ion 43.00 (42.70 to 43.70): VU034018.D (-1365) (-)

Ion 61.00 (60.70 to 61.70): VU034018.D (-1365) (-)

Ion 87.00 (86.70 to 87.70): VU034018.D (-1365) (-)



#48

Methyl methacrylate

Concen: 1.180 ug/l

RT: 6.53 min Scan# 1691

Delta R.T. -0.07 min

Lab File: VU034202.D

Acq: 02 Sep 2019 15:12

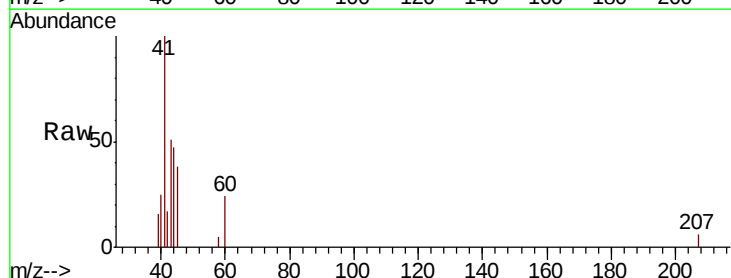
Tgt Ion: 41 Resp: 6534

Ion Ratio Lower Upper

41 100

69 0.0 69.5 104.3#

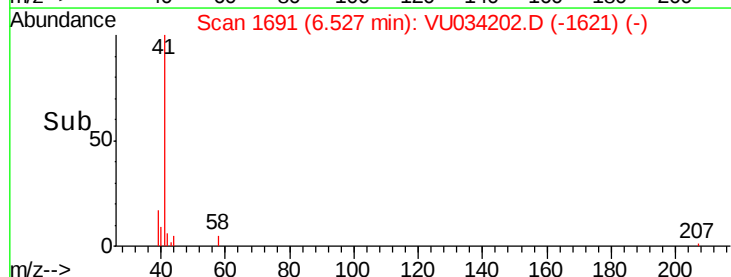
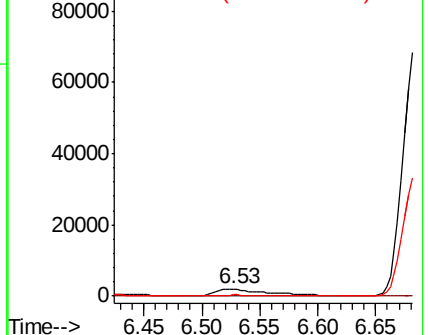
39 0.0 40.3 60.5#

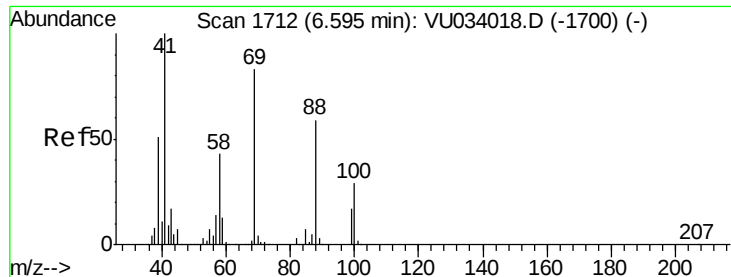


Abundance Ion 41.00 (40.70 to 41.70): VU034018.D (-1698) (-)

Ion 69.00 (68.70 to 69.70): VU034018.D (-1698) (-)

Ion 39.00 (38.70 to 39.70): VU034018.D (-1698) (-)

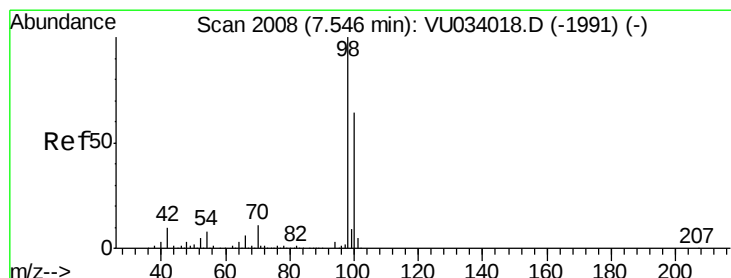
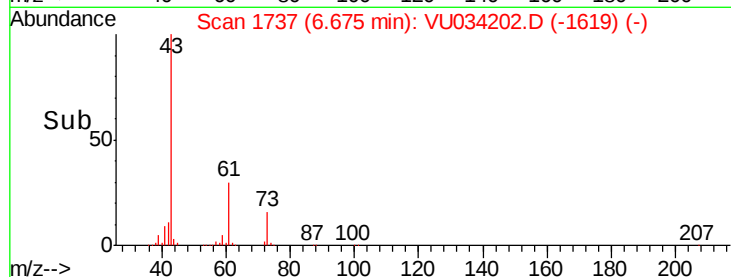
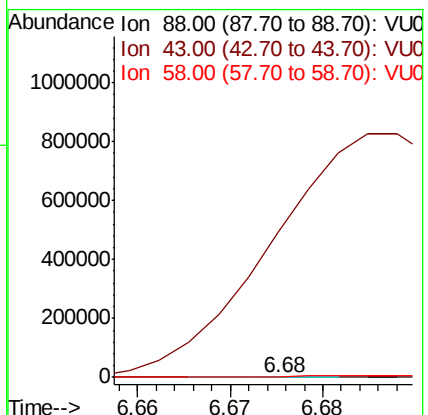
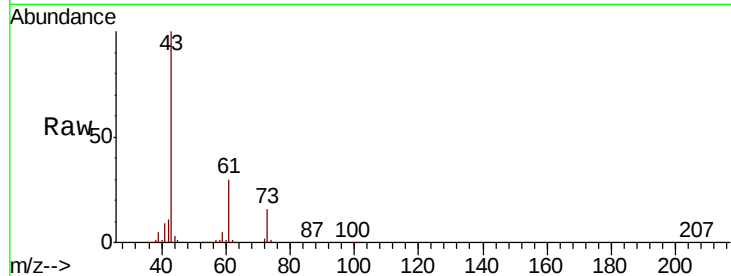




#49
1,4-Dioxane
Concen: 0.814 ug/l
RT: 6.68 min Scan# 1737
Delta R.T. 0.08 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

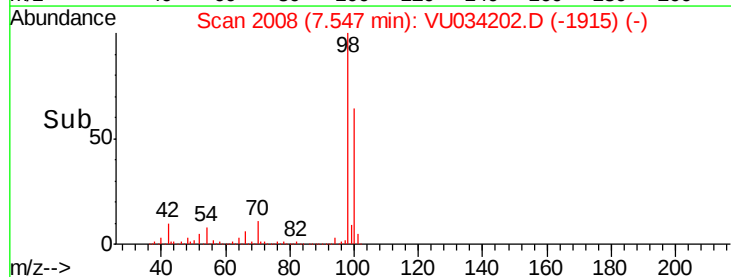
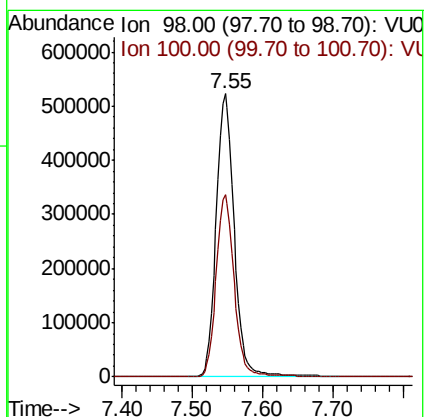
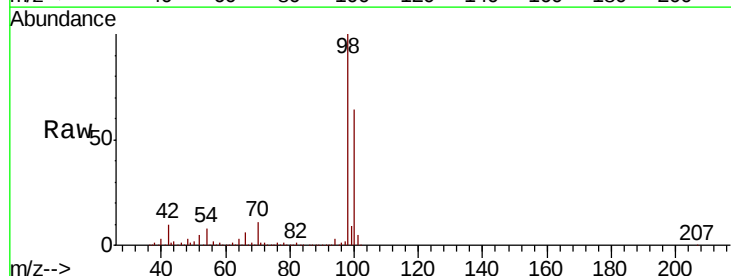
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(2.25)

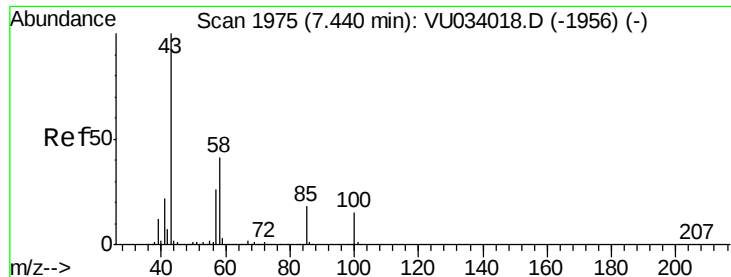
Tgt Ion: 88 Resp: 113
Ion Ratio Lower Upper
88 100
43 0.0 24.8 37.2#
58 0.0 59.3 88.9#



#50
Toluene-d8
Concen: 50.487 ug/l
RT: 7.55 min Scan# 2008
Delta R.T. 0.00 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

Tgt Ion: 98 Resp: 934073
Ion Ratio Lower Upper
98 100
100 64.1 50.3 75.5

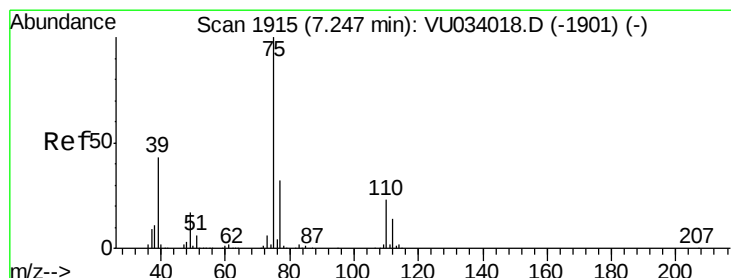
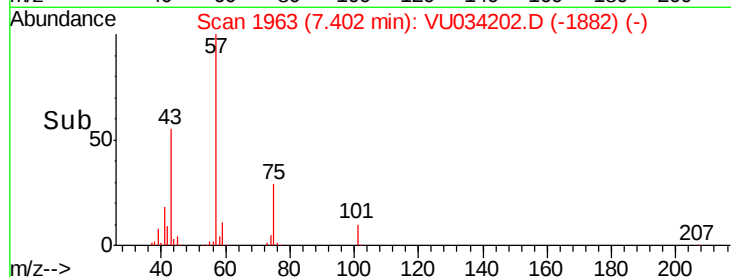
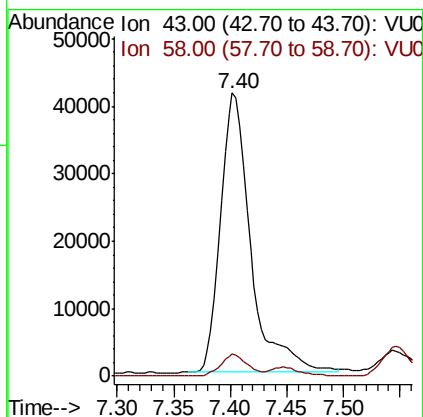
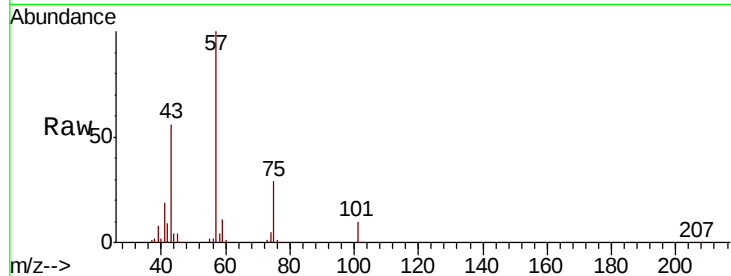




#51
 4-Methyl-2-Pentanone
 Concen: 9.778 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. -0.04 min
 Lab File: VU034202.D
 Acq: 02 Sep 2019 15:12

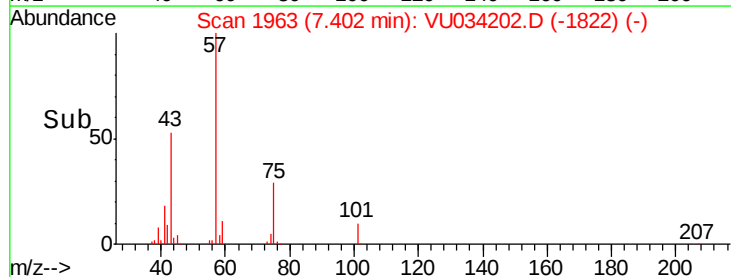
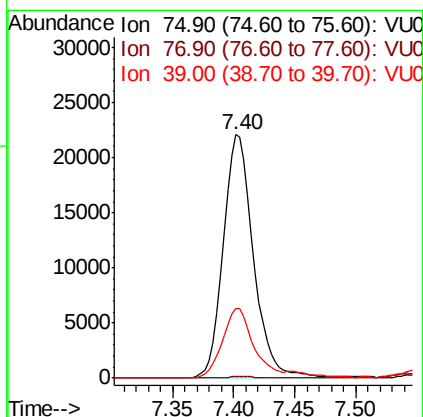
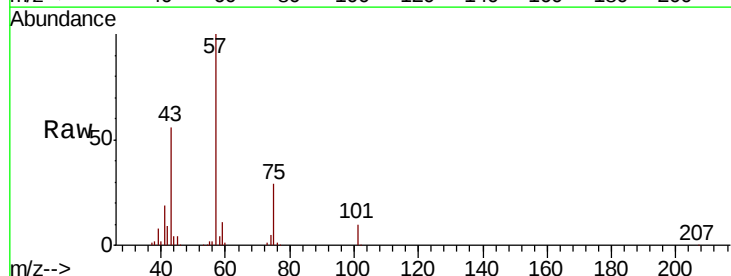
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C2-(2.25)

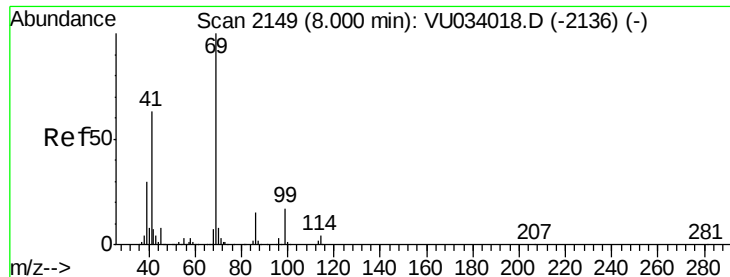
Tgt Ion: 43 Resp: 77517
 Ion Ratio Lower Upper
 43 100
 58 6.9 32.2 48.4#



#54
 cis-1,3-Dichloropropene
 Concen: 4.478 ug/l
 RT: 7.40 min Scan# 1963
 Delta R.T. 0.15 min
 Lab File: VU034202.D
 Acq: 02 Sep 2019 15:12

Tgt Ion: 75 Resp: 38396
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.2 37.8#
 39 28.4 34.6 51.8#





#56

Ethyl methacrylate

Concen: 0.998 ug/l

RT: 7.93 min Scan# 2126

Delta R.T. -0.07 min

Lab File: VU034202.D

Acq: 02 Sep 2019 15:12

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C2-(2.25)

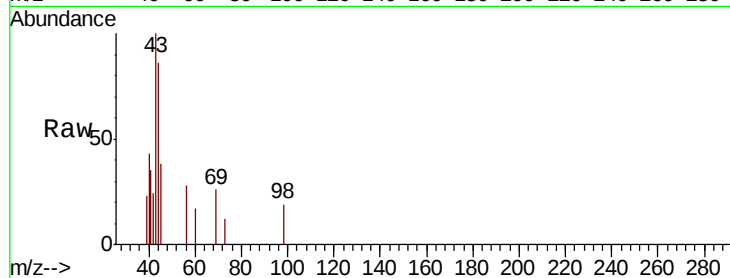
Tgt Ion: 69 Resp: 238

Ion Ratio Lower Upper

69 100

41 0.0 50.7 76.1#

39 0.0 24.2 36.2#

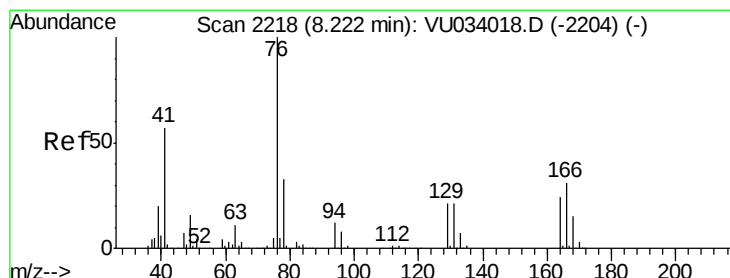
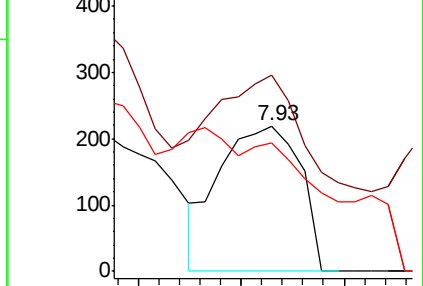
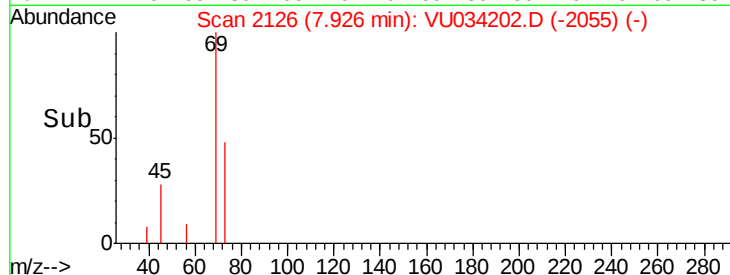


Abundance Ion 69.00 (68.70 to 69.70): VU034202.D (-2126) (-)

Ion 41.00 (40.70 to 41.70): VU034202.D (-2126) (-)

Ion 39.00 (38.70 to 39.70): VU034202.D (-2126) (-)

Time-->



#57

1,3-Dichloropropane

Concen: 0.713 ug/l

RT: 8.40 min Scan# 2273

Delta R.T. 0.18 min

Lab File: VU034202.D

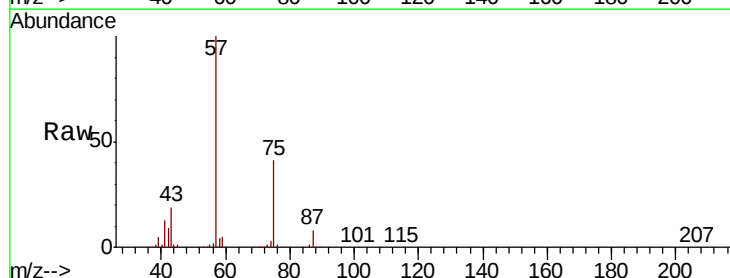
Acq: 02 Sep 2019 15:12

Tgt Ion: 76 Resp: 6431

Ion Ratio Lower Upper

76 100

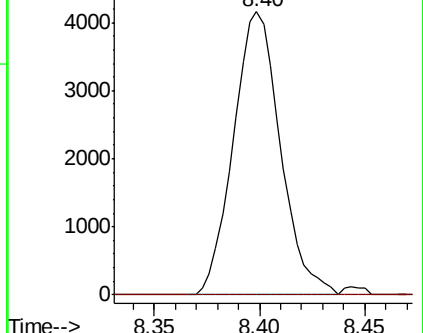
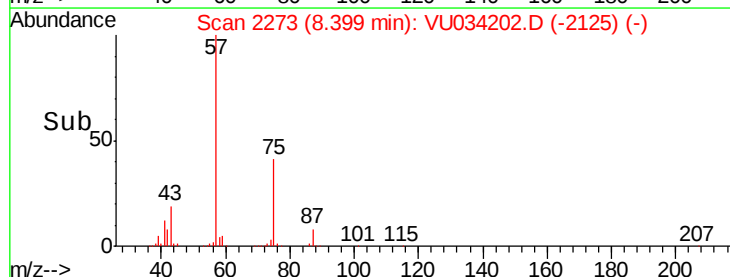
78 0.0 26.2 39.4#

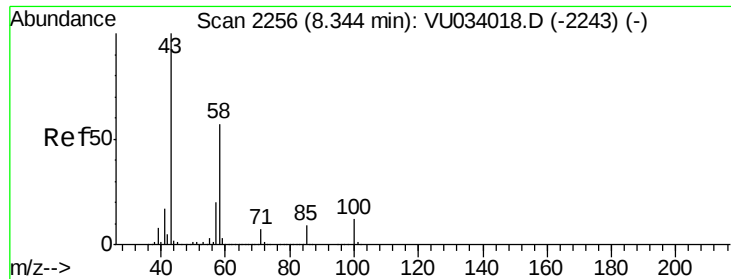


Abundance Ion 75.90 (75.60 to 76.60): VU034202.D (-2273) (-)

Ion 77.90 (77.60 to 78.60): VU034202.D (-2273) (-)

Time-->

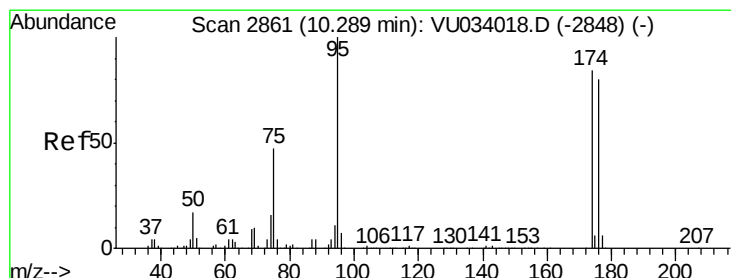
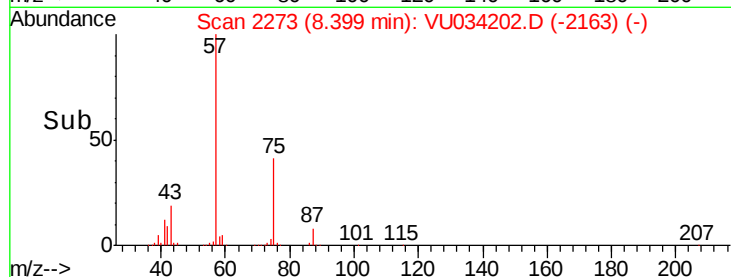
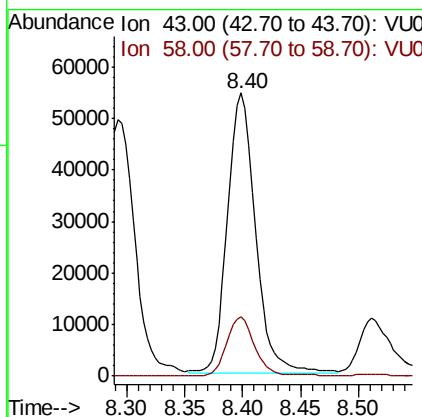
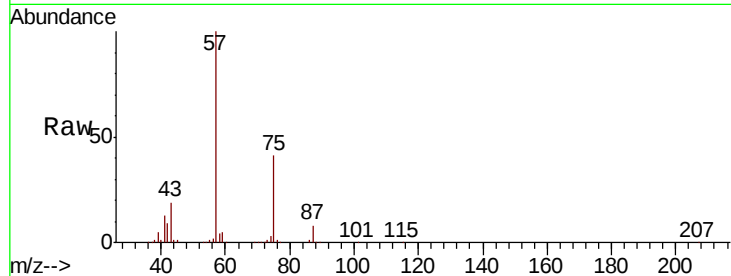




#59
 2-Hexanone
 Concen: 15.178 ug/l
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.05 min
 Lab File: VU034202.D
 Acq: 02 Sep 2019 15:12

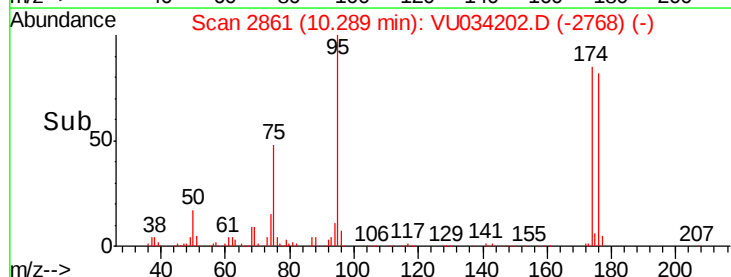
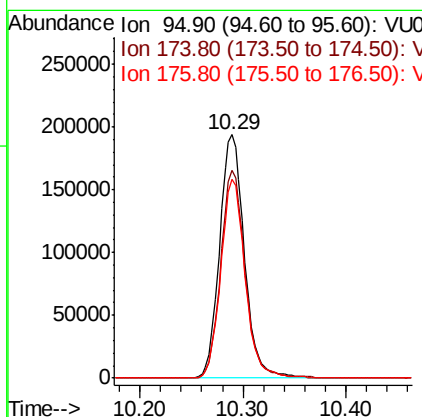
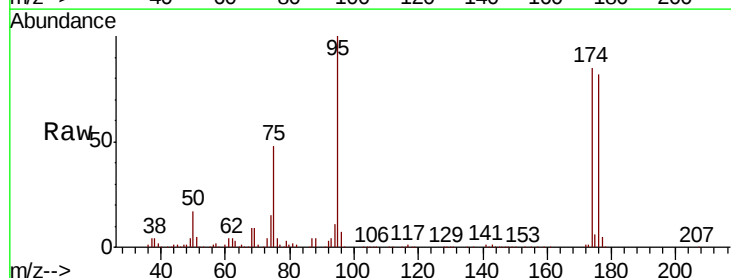
Instrument :
 MSVOA_U
 ClientSampleId :
 T16-17-C2-(2.25)

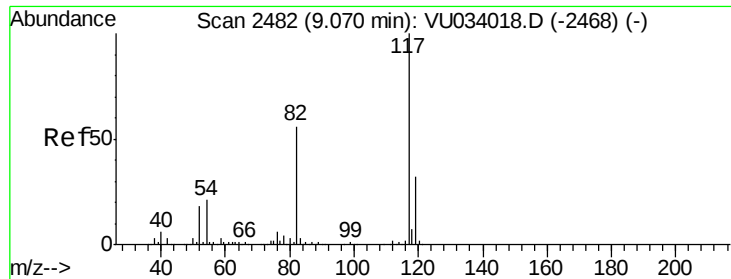
Tgt Ion: 43 Resp: 90838
 Ion Ratio Lower Upper
 43 100
 58 21.5 28.4 85.3#



#62
 4-Bromofluorobenzene
 Concen: 45.066 ug/l
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VU034202.D
 Acq: 02 Sep 2019 15:12

Tgt Ion: 95 Resp: 324333
 Ion Ratio Lower Upper
 95 100
 174 84.2 0.0 168.8
 176 80.7 0.0 161.8

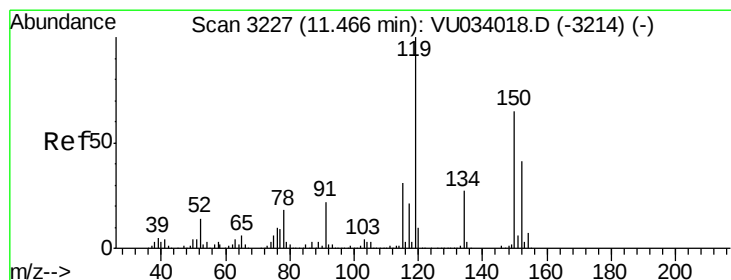
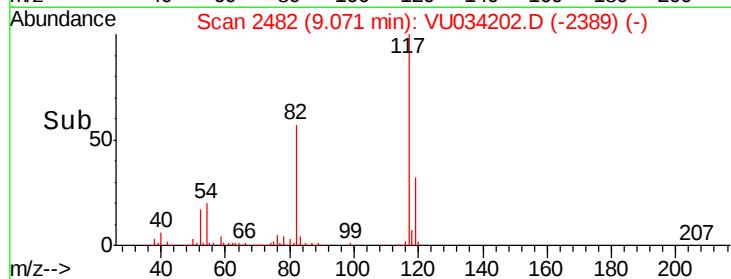
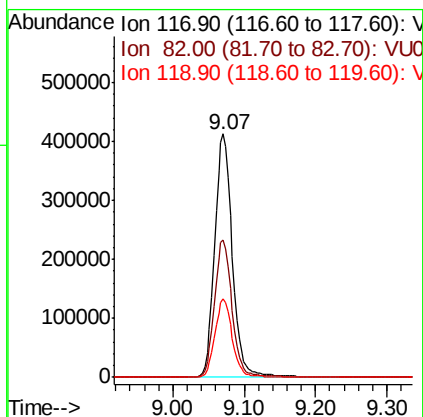
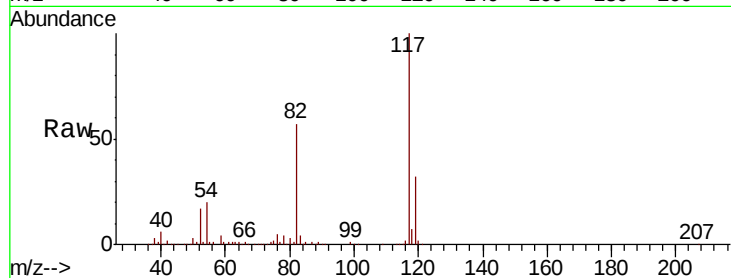




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.07 min Scan# 2482
Delta R.T. 0.00 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

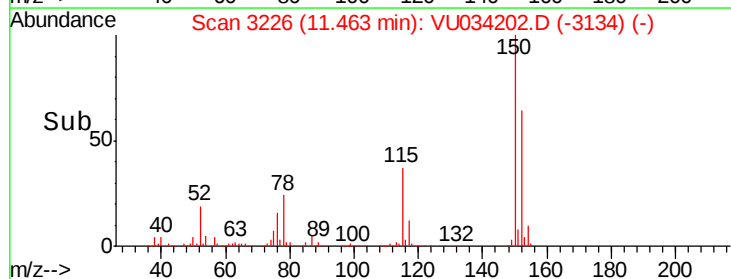
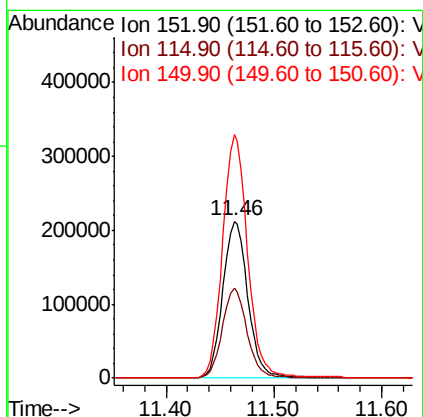
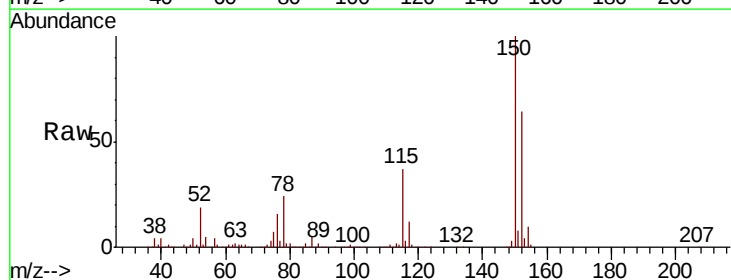
Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(2.25)

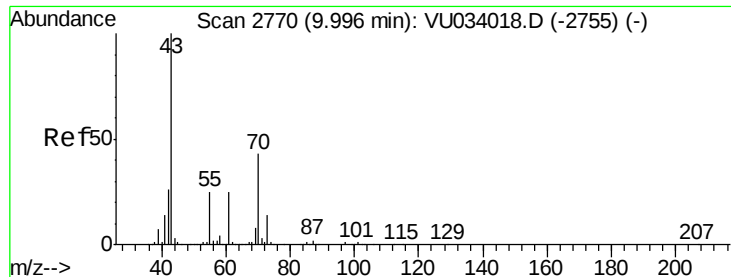
Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.7	45.1	67.7
119	32.1	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.46 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	41.1	123.3
150	154.6	0.0	348.8





#74

N-ethyl acetate

Concen: 0.230 ug/l

RT: 9.92 min Scan# 2747

Delta R.T. -0.07 min

Lab File: VU034202.D

Acq: 02 Sep 2019 15:12

Instrument :

MSVOA_U

ClientSampleId :

T16-17-C2-(2.25)

Tgt Ion: 43 Resp: 2240

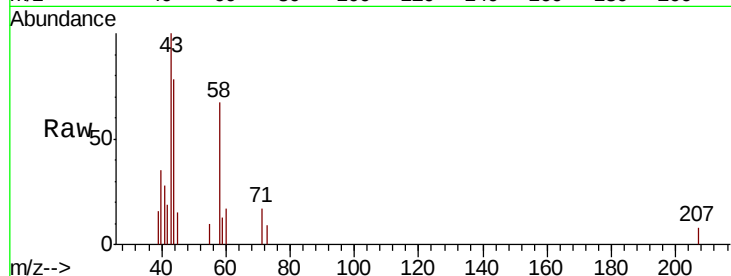
Ion Ratio Lower Upper

43 100

70 0.0 35.2 52.8#

55 8.8 20.5 30.7#

61 0.0 20.0 30.0#

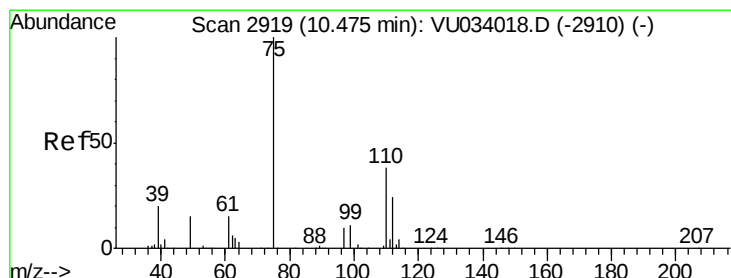
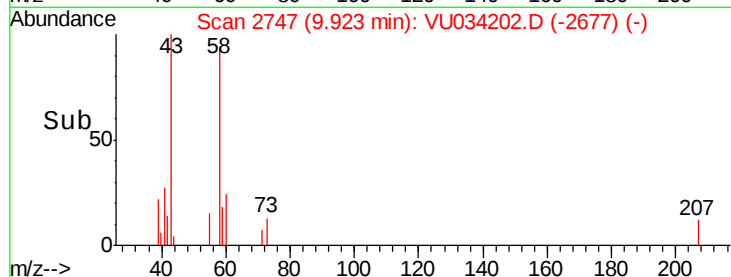
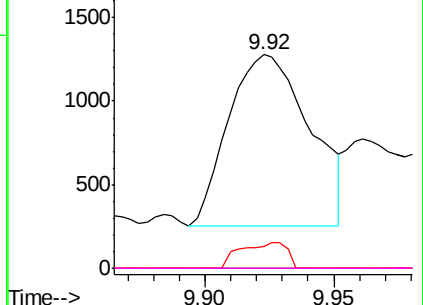


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 19.869 ug/l

RT: 10.29 min Scan# 2861

Delta R.T. -0.19 min

Lab File: VU034202.D

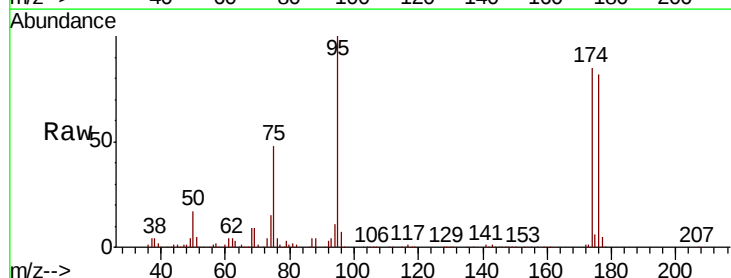
Acq: 02 Sep 2019 15:12

Tgt Ion: 75 Resp: 154048

Ion Ratio Lower Upper

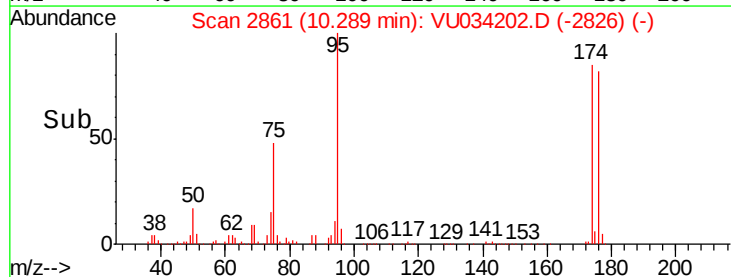
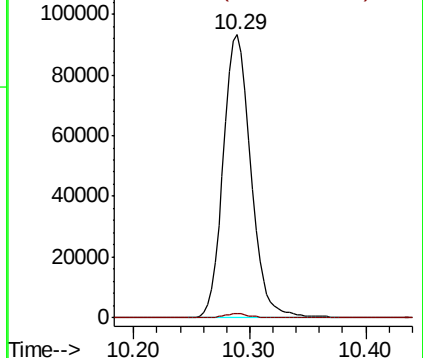
75 100

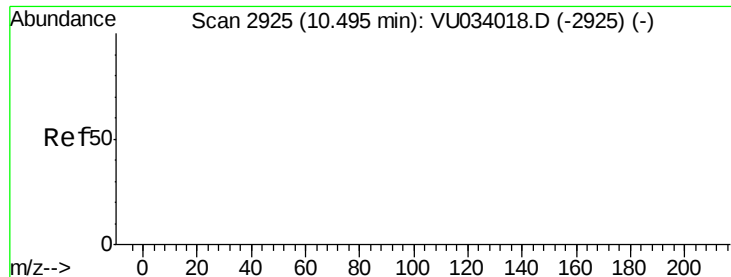
77 1.4 20.1 60.2#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

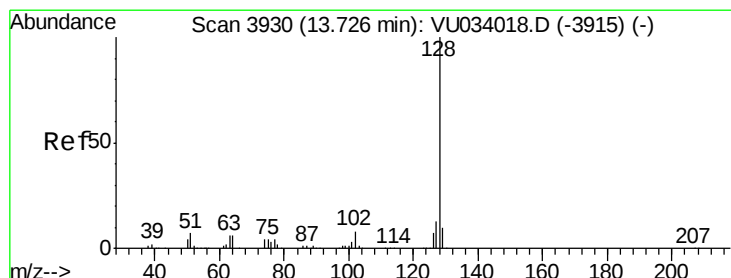
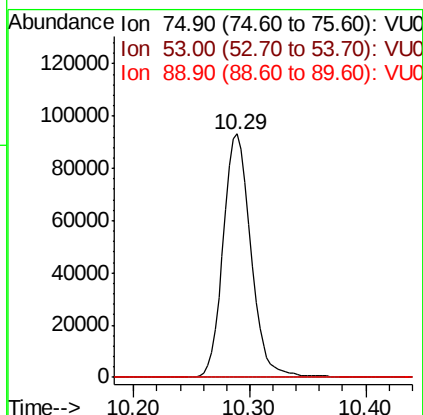
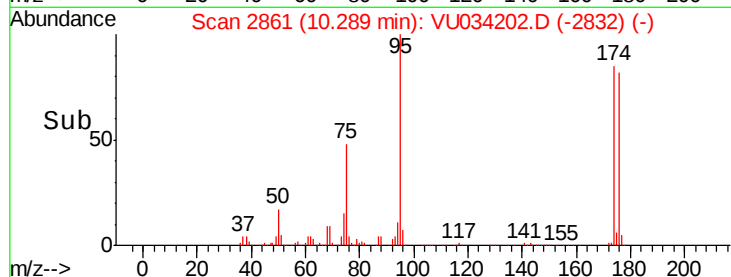
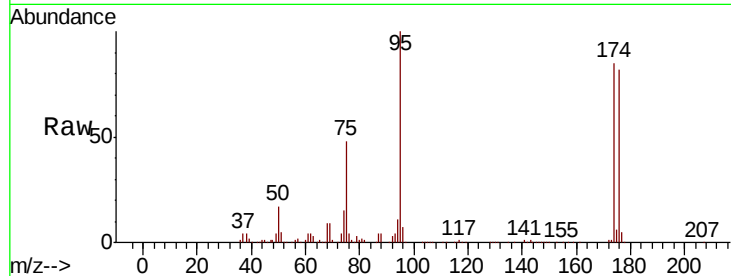




#81
trans-1,4-Dichloro-2-butene
Concen: 66.904 ug/l
RT: 10.29 min Scan# 2861
Delta R.T. -0.21 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

Instrument :
MSVOA_U
ClientSampleId :
T16-17-C2-(2.25)

Tgt Ion: 75 Resp: 154048
Ion Ratio Lower Upper
75 100
53 0.2 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 1.793 ug/l
RT: 13.80 min Scan# 3952
Delta R.T. 0.07 min
Lab File: VU034202.D
Acq: 02 Sep 2019 15:12

Tgt Ion: 128 Resp: 65
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.4#
129 0.0 8.4 12.6#

