

Data File : VU033350.D
Acq On : 20 Jul 2019 00:19
Operator : JC/SP
Sample : K3890-02
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
A52Q8

Quant Time: Jul 20 05:25:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR071619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jul 20 05:21:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	107475	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	115356	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	56335	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	45799	4.23	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.60%
7) Chloroethane-d5	1.67	69	41274	4.57	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.40%
11) 1,1-Dichloroethene-d2	2.26	63	79590	3.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.00%
20) 2-Butanone-d5	4.17	46	114039	55.91	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.82%
24) Chloroform-d	4.62	84	71894	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
26) 1,2-Dichloroethane-d4	5.29	65	40957	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	5.31	84	137695	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
36) 1,2-Dichloropropane-d6	6.31	67	46735	4.57	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.40%
41) Toluene-d8	7.55	98	114369	3.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.20%
43) trans-1,3-Dichloropropene-	7.83	79	17872	4.36	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.20%
46) 2-Hexanone-d5	8.30	63	89048	52.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.84%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	42080	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.00%
64) 1,2-Dichlorobenzene-d4	11.85	152	47503	4.33	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.60%

Target Compounds

						Qvalue
5) Vinyl chloride	1.39	62	141615	12.240	ug/L	83
8) Chloroethane	1.69	64	432875	58.460	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2353	0.257	ug/L #	76
12) 1,1-Dichloroethene	2.27	96	18826	2.132	ug/L	86
13) Acetone	2.31	43	24027	13.455	ug/L	96
15) Methyl Acetate	2.60	43	42747	9.584	ug/L	99
18) trans-1,2-Dichloroethene	2.96	96	2974	0.305	ug/L	98
19) 1,1-Dichloroethane	3.42	63	728362	49.698	ug/L	100
21) 2-Butanone	4.27	43	5724	2.789	ug/L #	70
22) cis-1,2-Dichloroethene	4.20	96	47222	5.729	ug/L	97
29) 1,1,1-Trichloroethane	4.89	97	371799	27.904	ug/L	99
30) Cyclohexane	4.97	56	6525	0.545	ug/L	100
31) Carbon tetrachloride	4.89	117	47127	4.040	ug/L	97
34) Trichloroethene	6.16	95	14424	1.669	ug/L	91
35) Methylcyclohexane	6.39	83	1230	0.094	ug/L #	84
37) 1,2-Dichloropropane	6.31	63	5292	0.599	ug/L #	89
42) Toluene	7.62	91	1251234	35.678	ug/L	99

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR071619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jul 20 05:21:55 2019
Response via : Initial Calibration

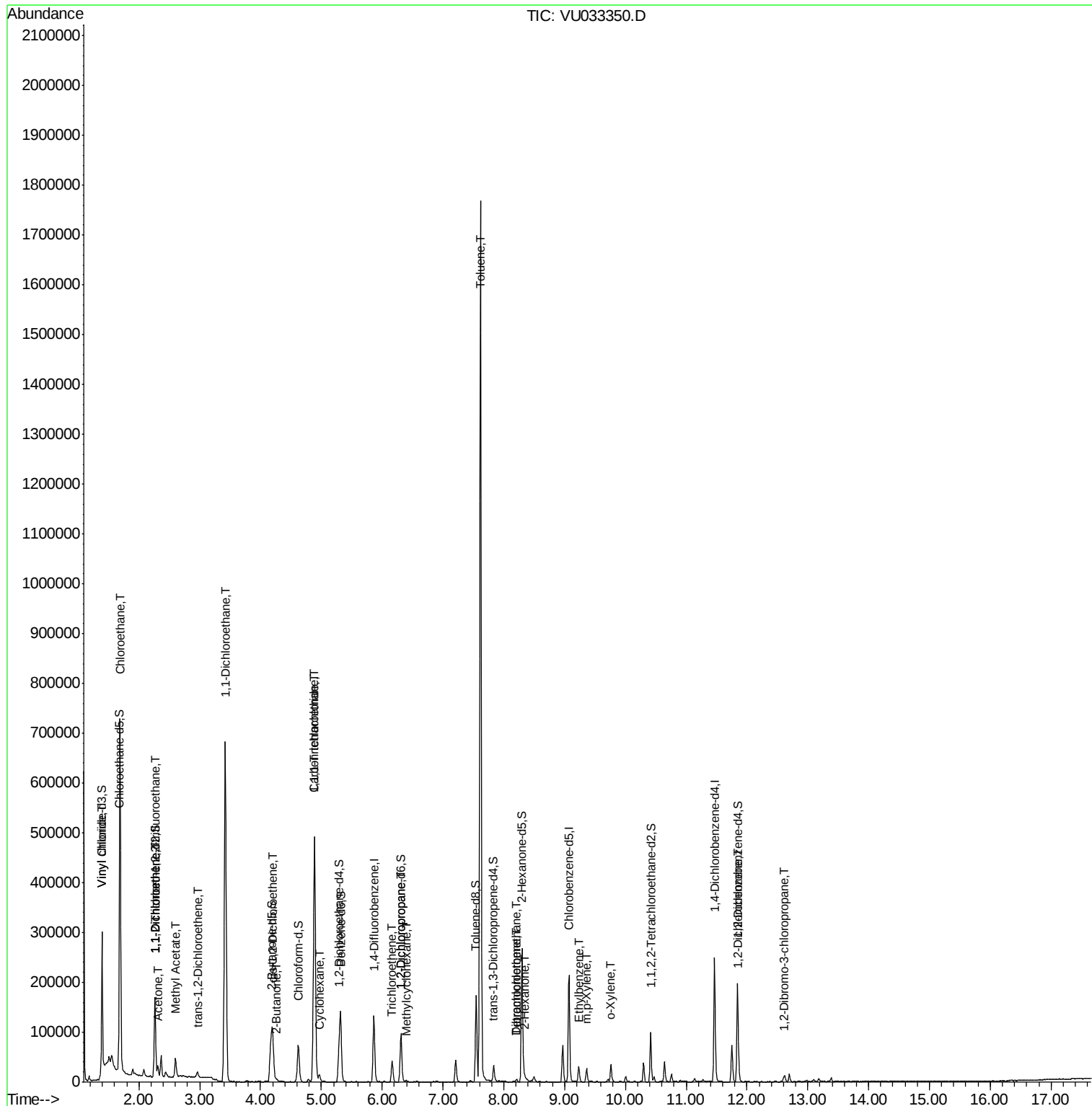
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.21	164	1081	0.156	ug/L	88
48) 2-Hexanone	8.35	43	3784	1.022	ug/L #	67
49) Dibromochloromethane	8.21	129	1101	0.145	ug/L #	12
52) Ethylbenzene	9.23	91	21290	0.569	ug/L	99
53) m,p-Xylene	9.36	106	6346	0.449	ug/L	88
54) o-Xylene	9.76	106	8891	0.659	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	7709	0.461	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.62	75	2089	1.652	ug/L #	2

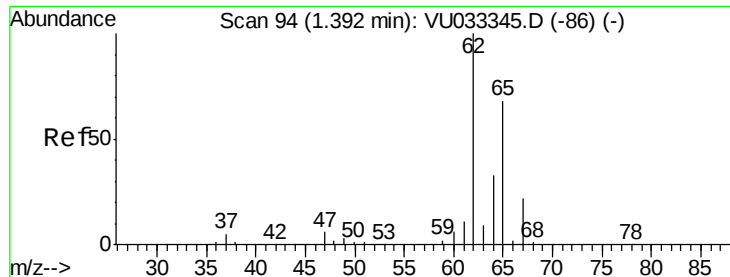
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 12.240 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Instrument :

MSVOA_U

ClientSampled :

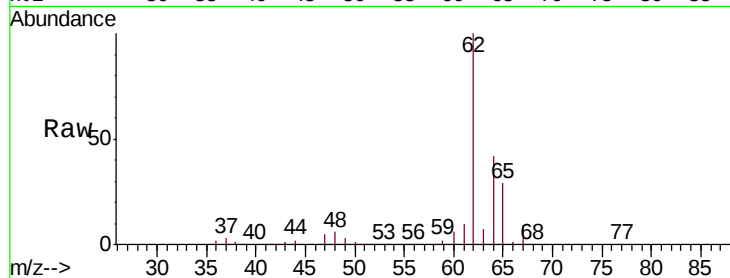
A52Q8

Tgt Ion: 62 Resp: 141615

Ion Ratio Lower Upper

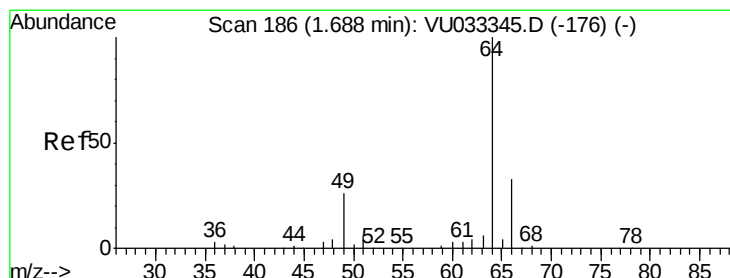
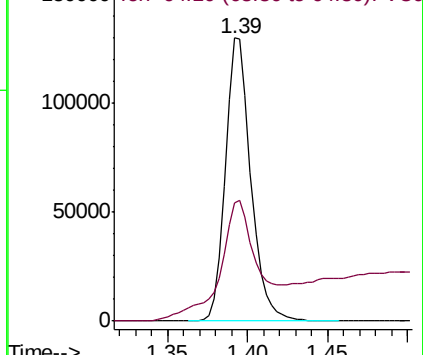
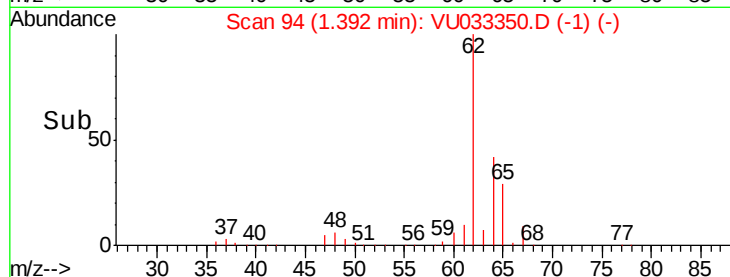
62 100

64 41.9 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU033350.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU033350.D (-1) (-)



#8

Chloroethane

Concen: 58.460 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033350.D

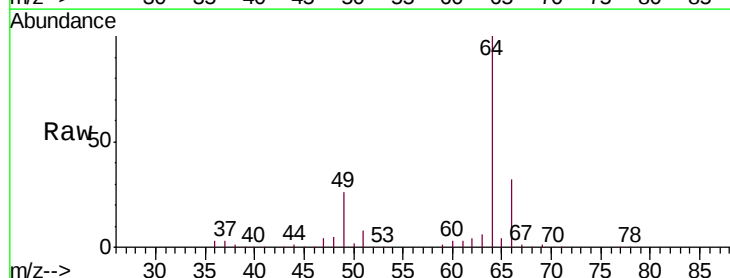
Acq: 20 Jul 2019 00:19

Tgt Ion: 64 Resp: 432875

Ion Ratio Lower Upper

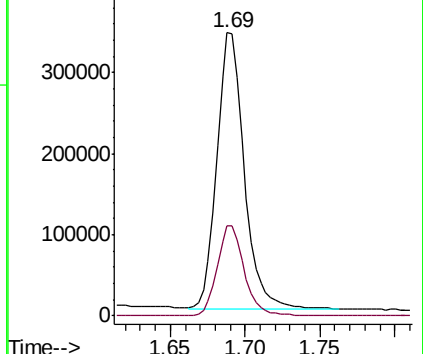
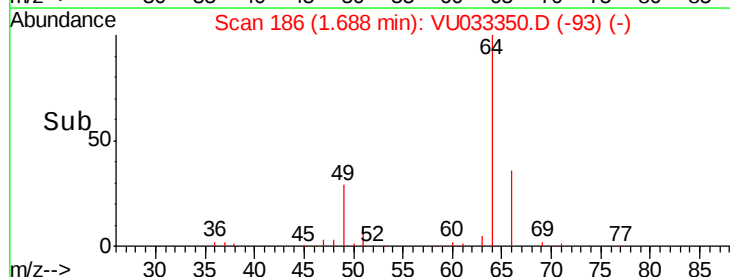
64 100

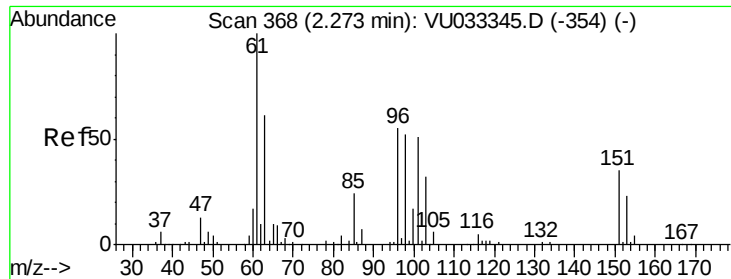
66 31.7 23.2 43.2



Abundance Ion 64.10 (63.80 to 64.80): VU033350.D (-93) (-)

Ion 66.05 (65.75 to 66.75): VU033350.D (-93) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.257 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Instrument :

MSVOA_U

ClientSampleId :

A52Q8

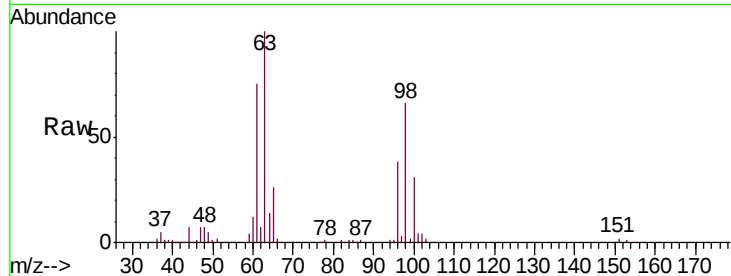
Tgt Ion:101 Resp: 2353

Ion Ratio Lower Upper

101 100

85 34.7 37.4 56.0#

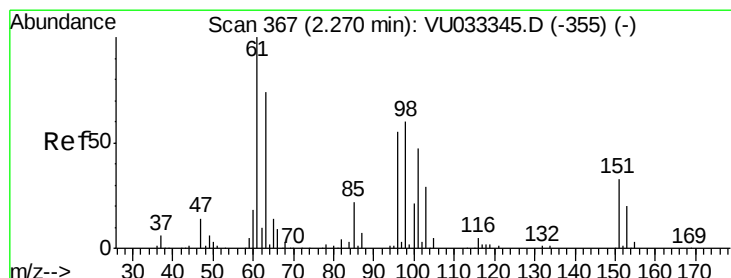
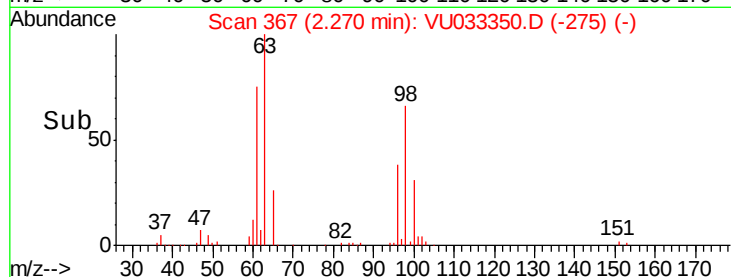
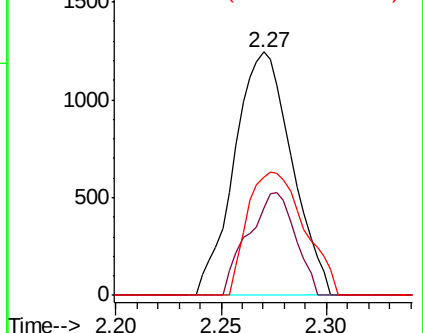
151 50.3 58.6 87.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.132 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

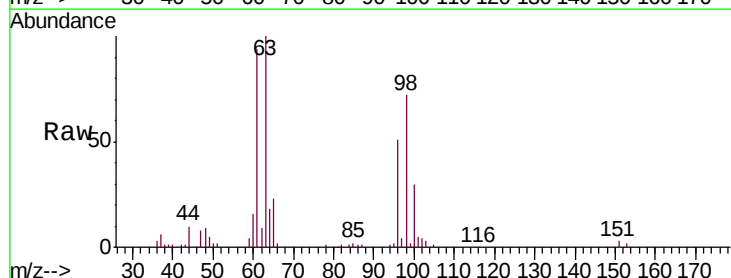
Tgt Ion: 96 Resp: 18826

Ion Ratio Lower Upper

96 100

61 184.8 129.3 240.1

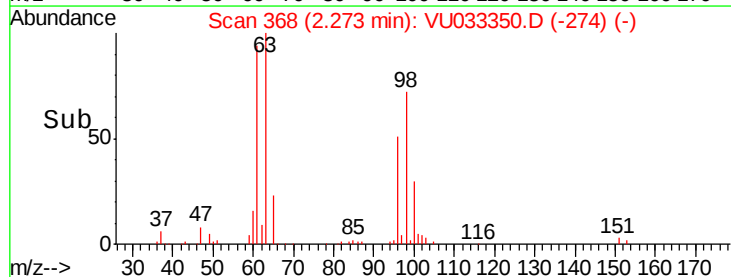
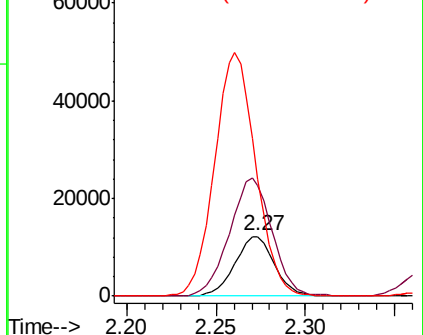
63 196.4 108.9 202.3

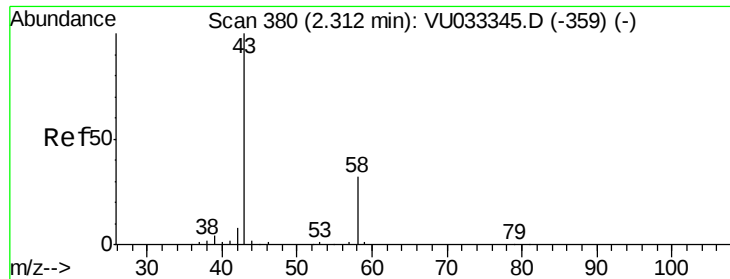


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 13.455 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Instrument :

MSVOA_U

ClientSampleId :

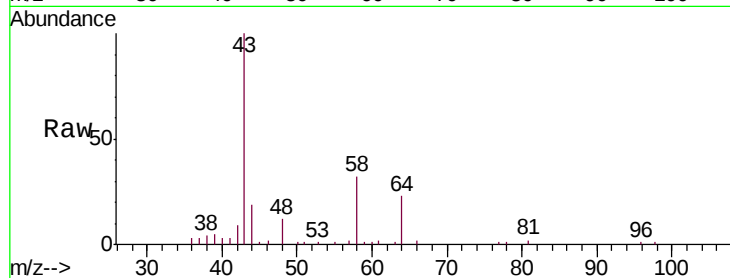
A52Q8

Tgt Ion: 43 Resp: 24027

Ion Ratio Lower Upper

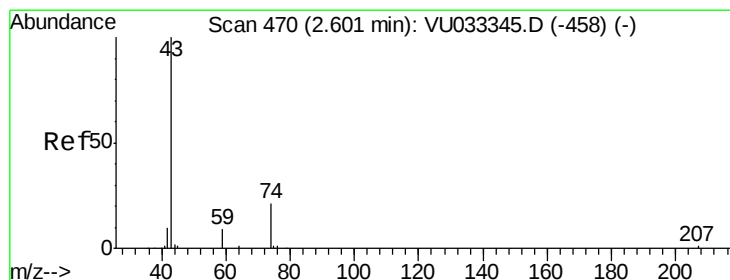
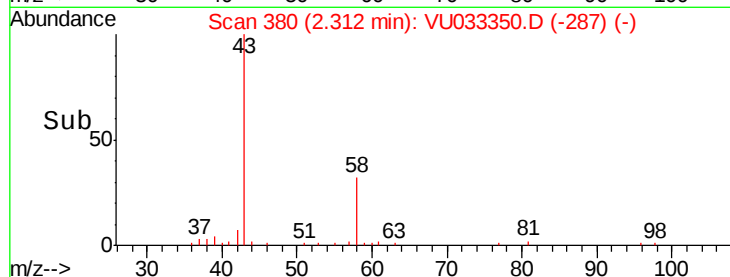
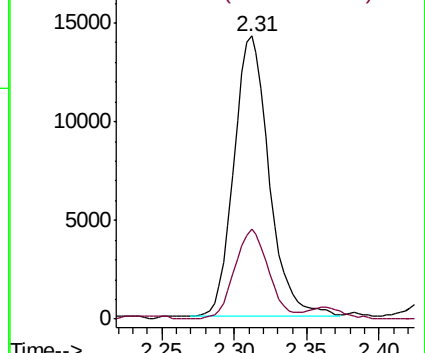
43 100

58 31.0 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU033350.D (-377) (-)

Ion 58.05 (57.75 to 58.75): VU033350.D (-377) (-)



#15

Methyl Acetate

Concen: 9.584 ug/L

RT: 2.60 min Scan# 470

Delta R.T. 0.00 min

Lab File: VU033350.D

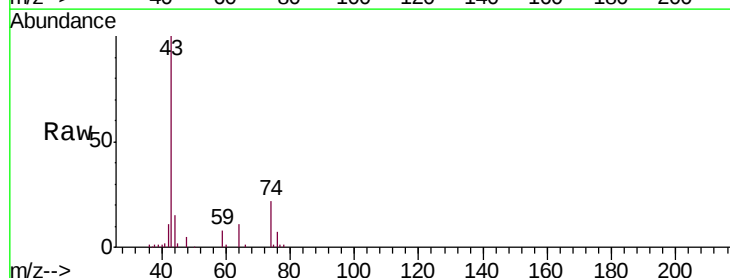
Acq: 20 Jul 2019 00:19

Tgt Ion: 43 Resp: 42747

Ion Ratio Lower Upper

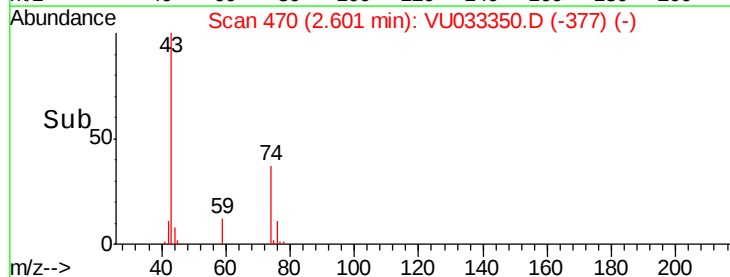
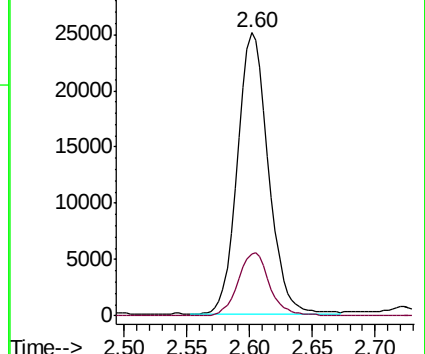
43 100

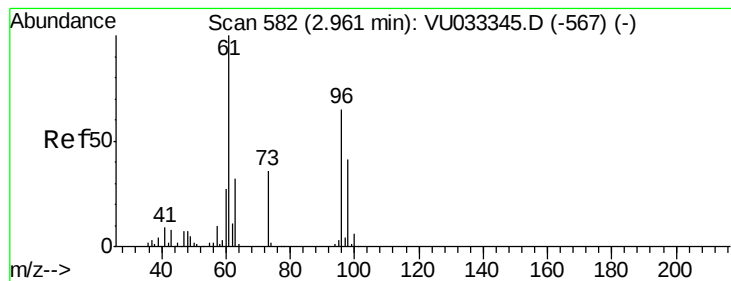
74 22.9 17.8 26.8



Abundance Ion 43.05 (42.75 to 43.75): VU033350.D (-377) (-)

Ion 74.05 (73.75 to 74.75): VU033350.D (-377) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.305 ug/L

RT: 2.96 min Scan# 582

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Instrument :

MSVOA_U

ClientSampleId :

A52Q8

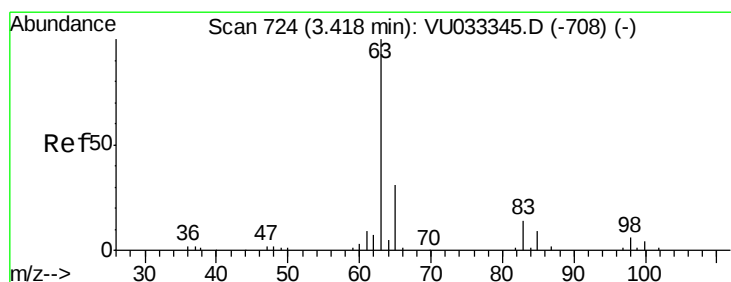
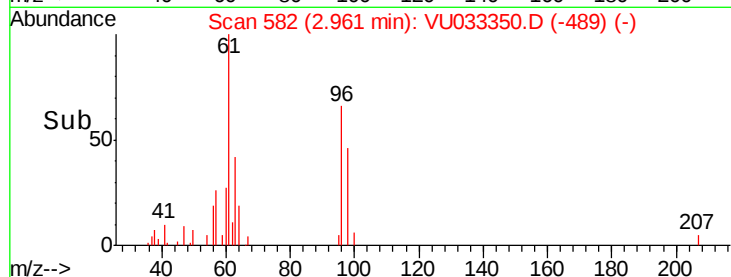
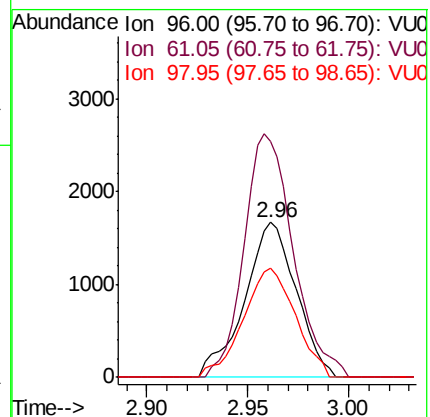
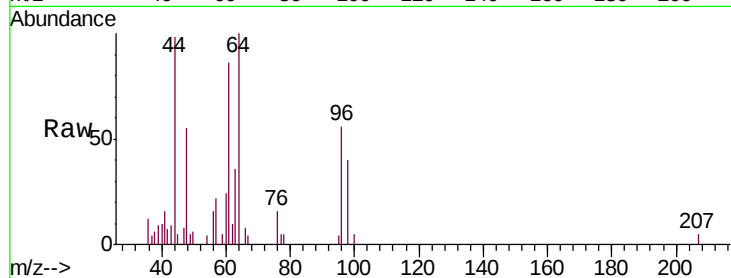
Tgt Ion: 96 Resp: 2974

Ion Ratio Lower Upper

96 100

61 152.4 107.1 198.9

98 70.2 45.4 84.4



#19

1,1-Dichloroethane

Concen: 49.698 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

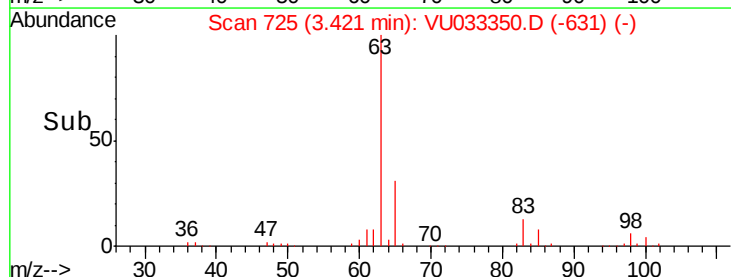
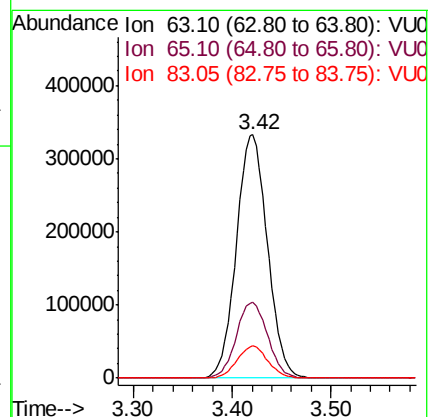
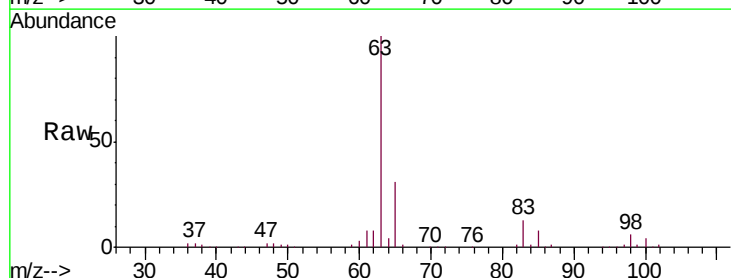
Tgt Ion: 63 Resp: 728362

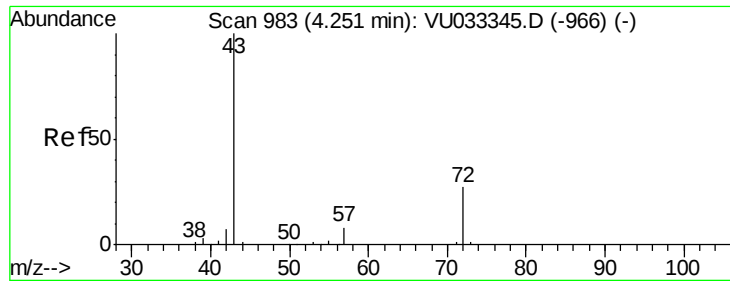
Ion Ratio Lower Upper

63 100

65 31.1 21.7 40.3

83 13.1 9.0 16.8





#21

2-Butanone

Concen: 2.789 ug/L

RT: 4.27 min Scan# 988

Delta R.T. 0.02 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Instrument :

MSVOA_U

ClientSampled :

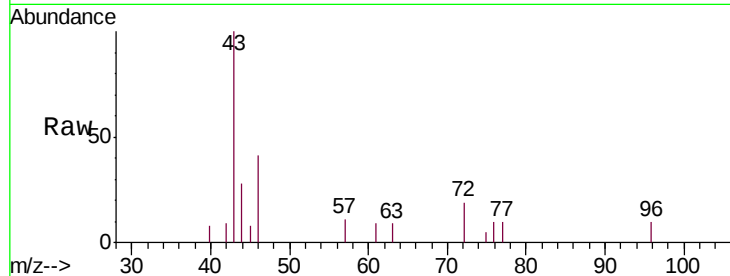
A52Q8

Tgt Ion: 43 Resp: 5724

Ion Ratio Lower Upper

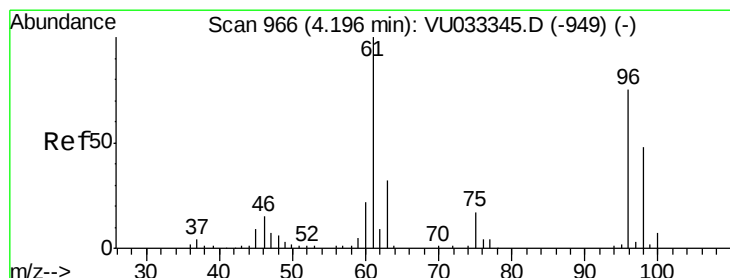
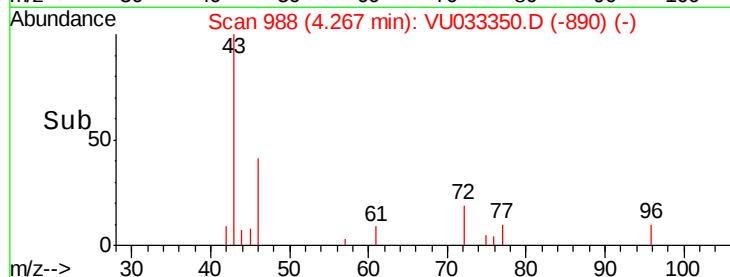
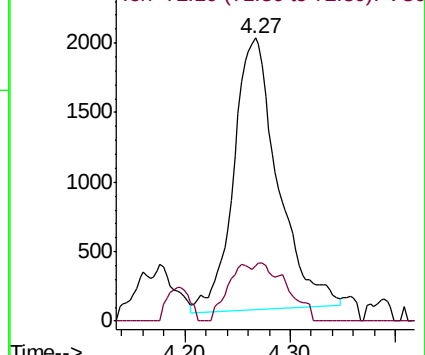
43 100

72 11.5 13.5 40.4#



Abundance Ion 43.05 (42.75 to 43.75): VU033350.D (-890) (-)

Ion 72.10 (71.80 to 72.80): VU033350.D (-890) (-)



#22

cis-1,2-Dichloroethene

Concen: 5.729 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

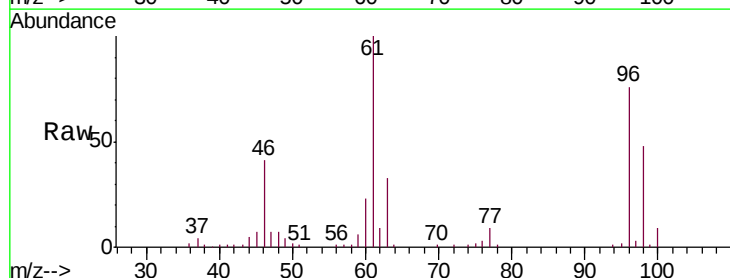
Tgt Ion: 96 Resp: 47222

Ion Ratio Lower Upper

96 100

61 131.4 89.2 165.6

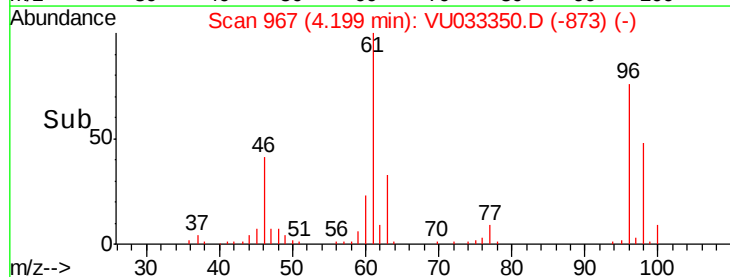
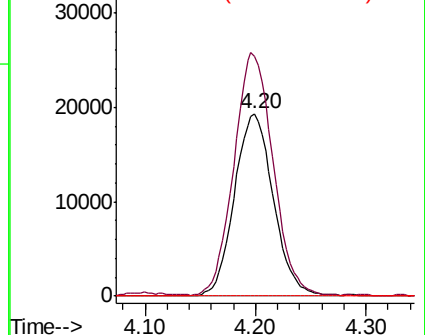
68 0.0 0.0 0.0

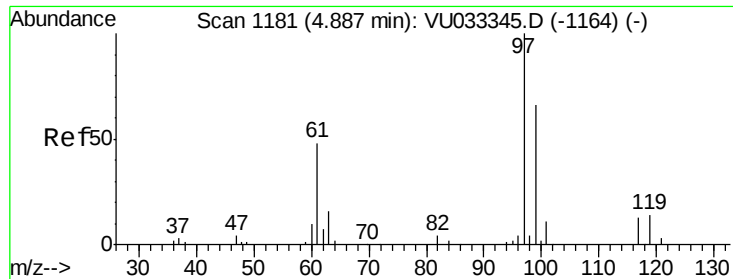


Abundance Ion 96.00 (95.70 to 96.70): VU033350.D (-873) (-)

Ion 61.05 (60.75 to 61.75): VU033350.D (-873) (-)

Ion 68.15 (67.85 to 68.85): VU033350.D (-873) (-)

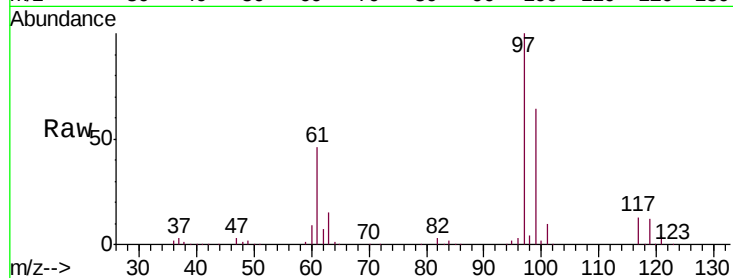




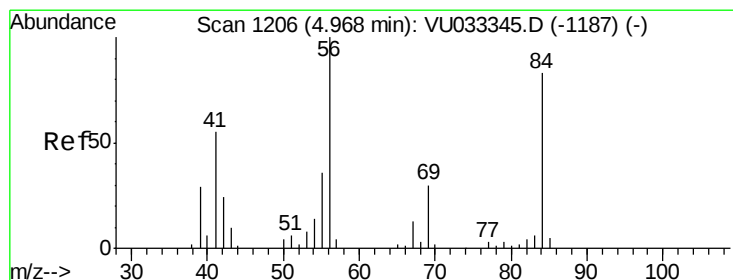
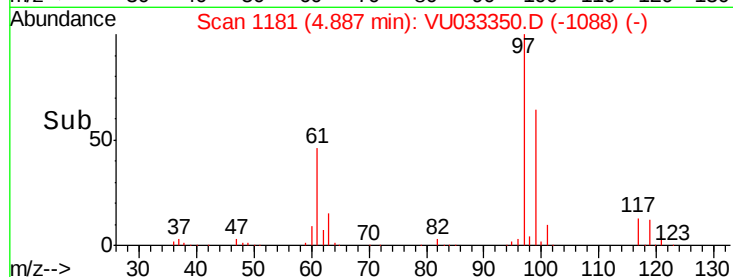
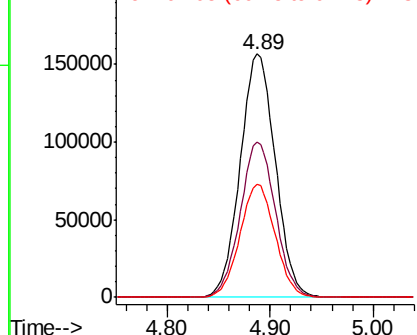
#29
 1,1,1-Trichloroethane
 Concen: 27.904 ug/L
 RT: 4.89 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VU033350.D
 Acq: 20 Jul 2019 00:19

Instrument :
 MSVOA_U
 ClientSampleId :
 A52Q8

Tgt Ion: 97 Resp: 371799
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.6 77.4
 61 46.5 36.2 54.4

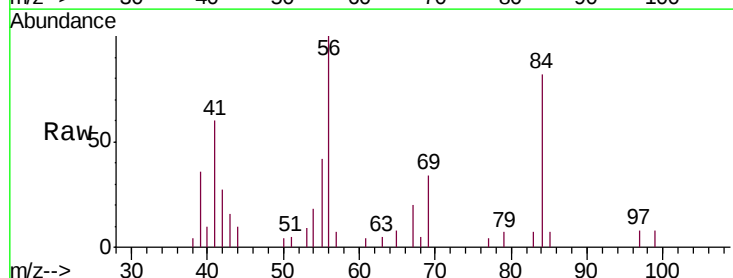


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

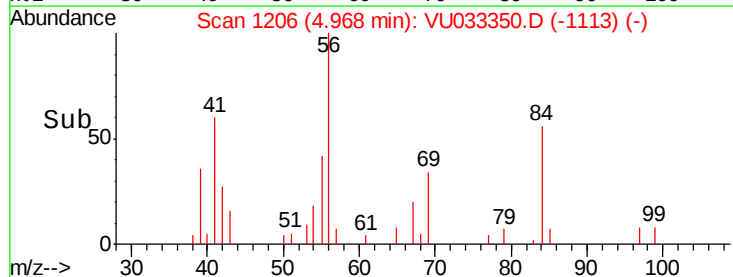
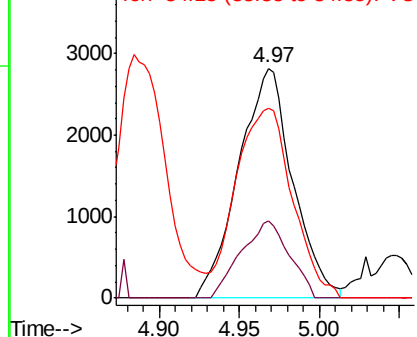


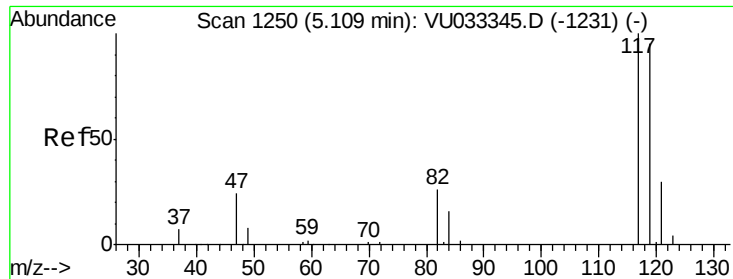
#30
 Cyclohexane
 Concen: 0.545 ug/L
 RT: 4.97 min Scan# 1206
 Delta R.T. 0.00 min
 Lab File: VU033350.D
 Acq: 20 Jul 2019 00:19

Tgt Ion: 56 Resp: 6525
 Ion Ratio Lower Upper
 56 100
 69 29.9 23.9 35.9
 84 87.0 69.5 104.3



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.040 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. -0.22 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Instrument :

MSVOA_U

ClientSampleId :

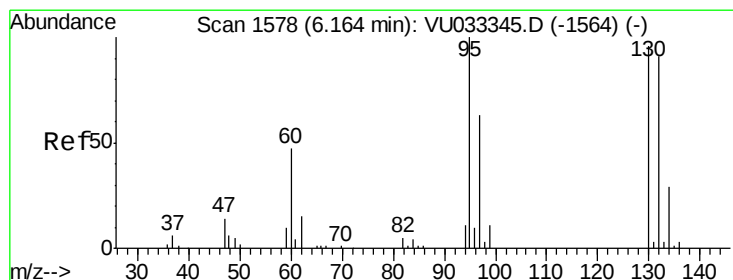
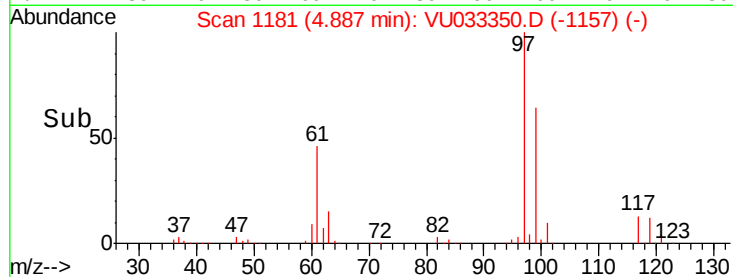
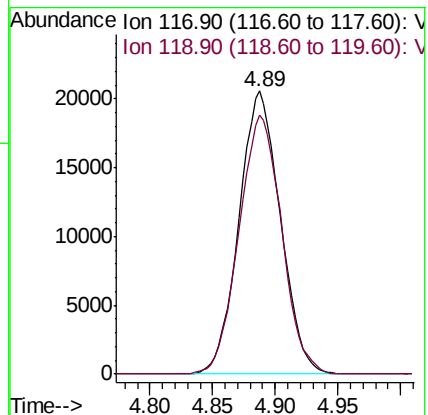
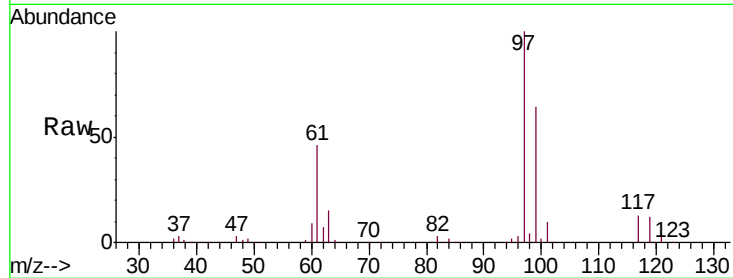
A52Q8

Tgt Ion:117 Resp: 47127

Ion Ratio Lower Upper

117 100

119 94.4 77.5 116.3



#34

Trichloroethene

Concen: 1.669 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Tgt Ion: 95 Resp: 14424

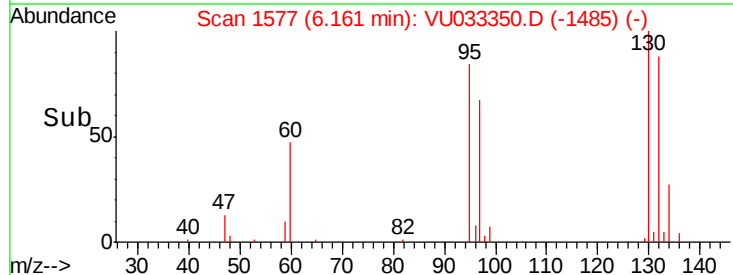
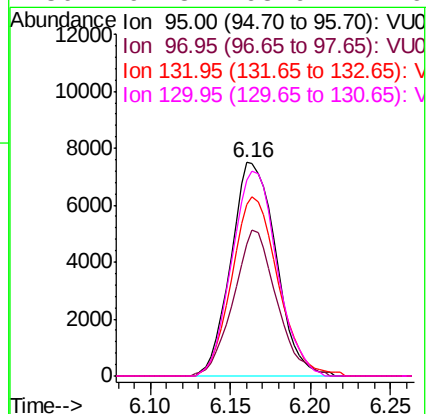
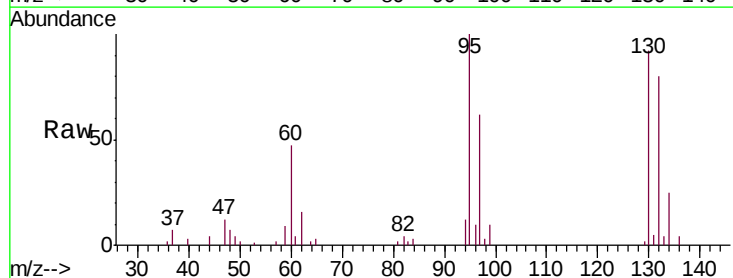
Ion Ratio Lower Upper

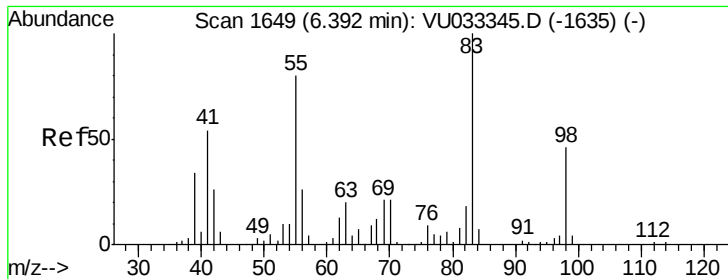
95 100

97 61.7 44.5 82.7

132 80.5 66.6 123.8

130 91.8 68.9 127.9

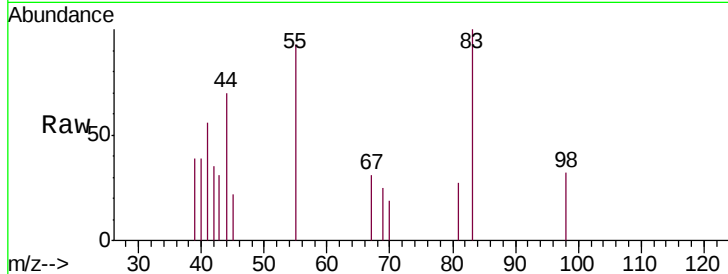




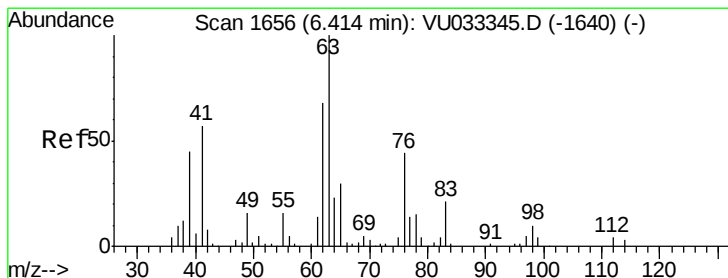
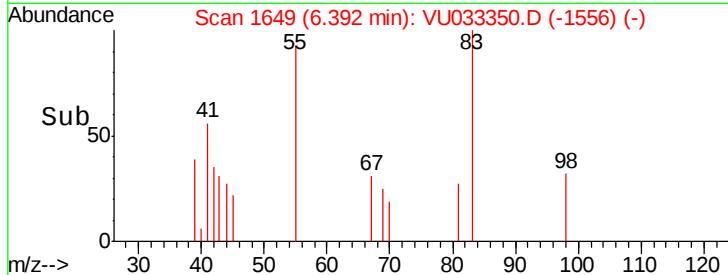
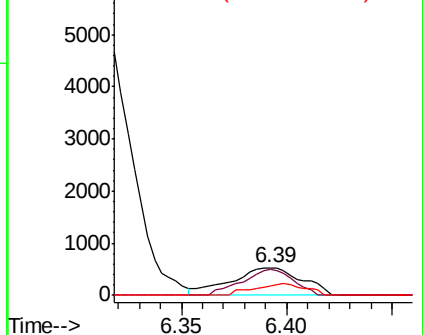
#35
Methylcyclohexane
Concen: 0.094 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. 0.00 min
Lab File: VU033350.D
Acq: 20 Jul 2019 00:19

Instrument :
MSVOA_U
ClientSampleId :
A52Q8

Tgt Ion: 83 Resp: 1230
Ion Ratio Lower Upper
83 100
55 67.7 62.6 94.0
98 30.1 36.2 54.2#

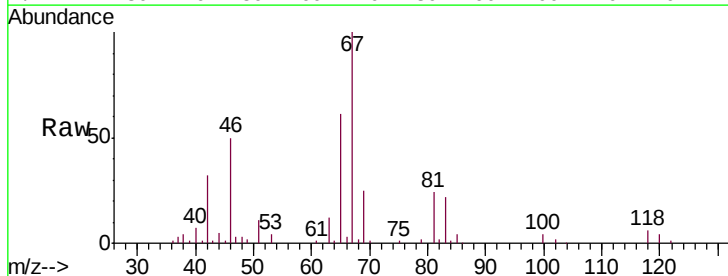


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

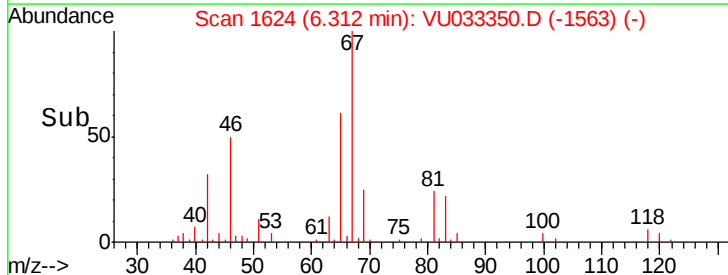
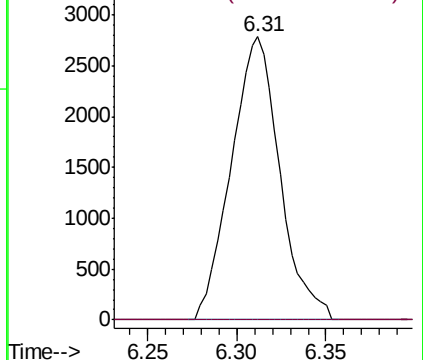


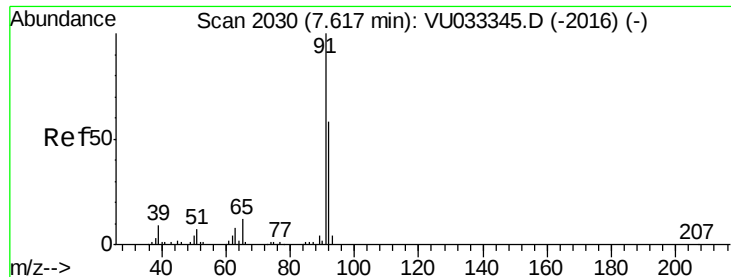
#37
1,2-Dichloropropane
Concen: 0.599 ug/L
RT: 6.31 min Scan# 1624
Delta R.T. -0.10 min
Lab File: VU033350.D
Acq: 20 Jul 2019 00:19

Tgt Ion: 63 Resp: 5292
Ion Ratio Lower Upper
63 100
112 0.4 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#42

Toluene

Concen: 35.678 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Instrument :

MSVOA_U

ClientSampleId :

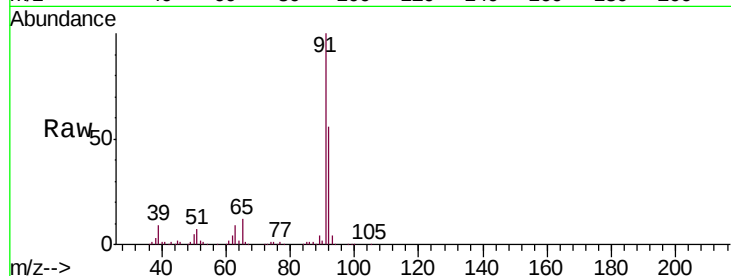
A52Q8

Tgt Ion: 91 Resp: 1251234

Ion Ratio Lower Upper

91 100

92 56.3 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU033350.D (-1937) (-)

Ion 92.15 (91.85 to 92.85): VU033350.D (-1937) (-)

7.62

800000

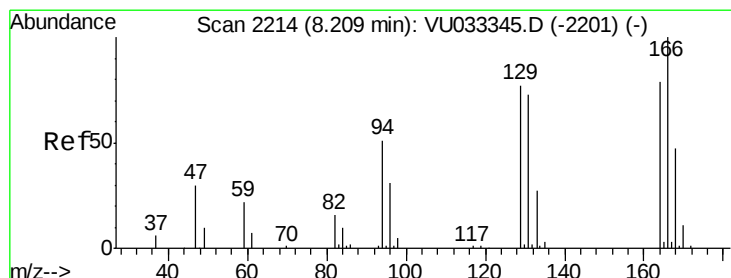
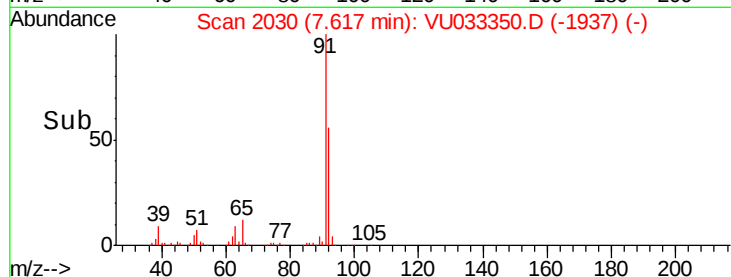
600000

400000

200000

0

Time--> 7.50 7.60 7.70



#47

Tetrachloroethene

Concen: 0.156 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Tgt Ion: 164 Resp: 1081

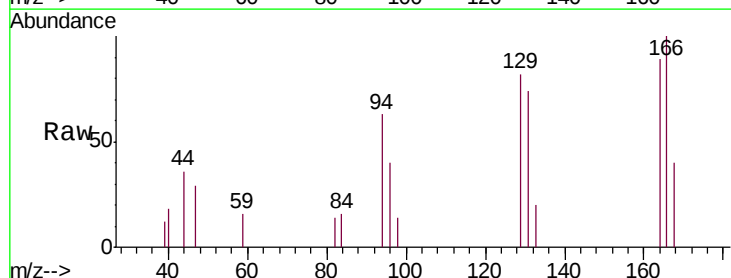
Ion Ratio Lower Upper

164 100

129 92.6 68.5 127.1

131 83.4 67.3 124.9

166 112.7 93.1 172.9



Abundance Ion 163.90 (163.60 to 164.60): VU033350.D (-2121) (-)

Ion 128.95 (128.65 to 129.65): VU033350.D (-2121) (-)

Ion 130.95 (130.65 to 131.65): VU033350.D (-2121) (-)

Ion 165.90 (165.60 to 166.60): VU033350.D (-2121) (-)

1200

1000

800

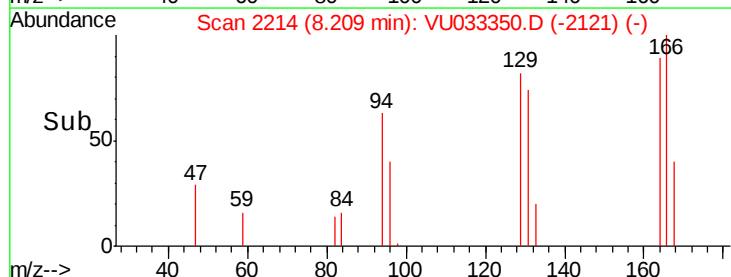
600

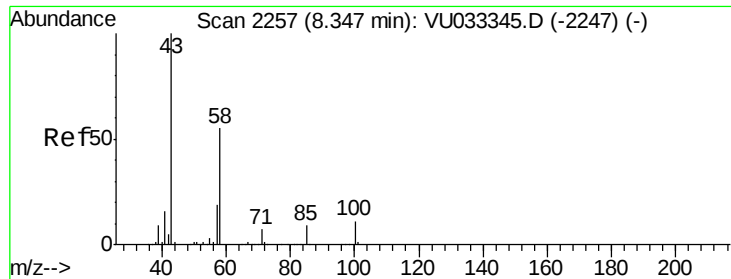
400

200

0

Time--> 8.20 8.25

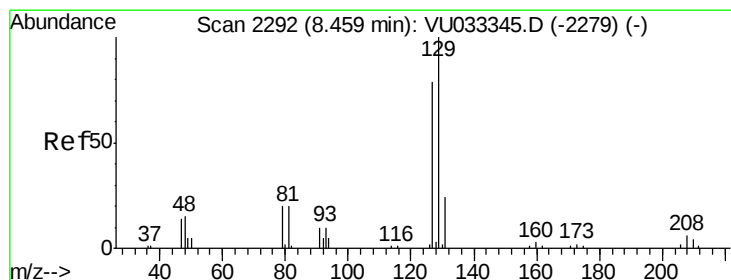
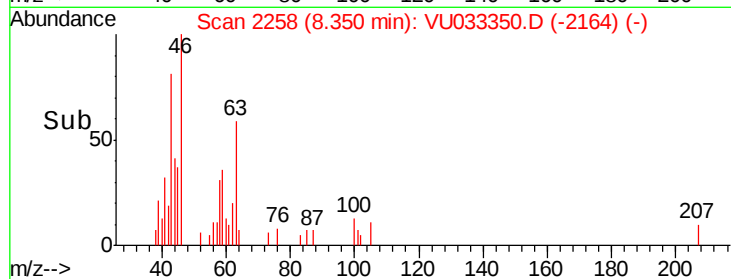
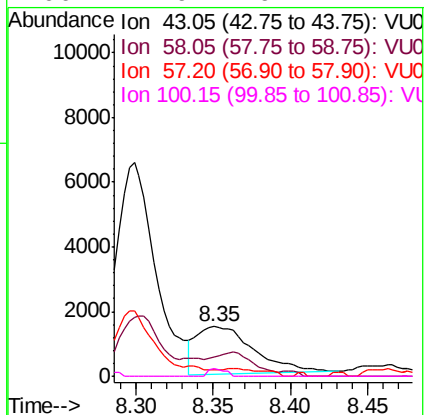
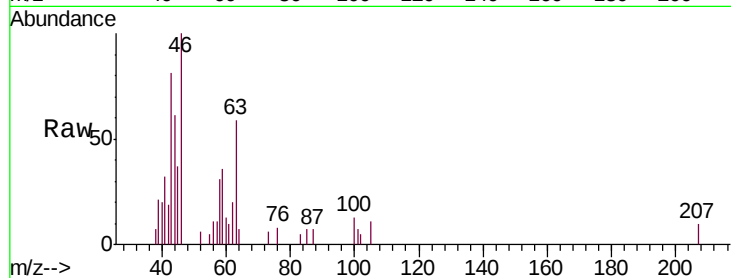




#48
2-Hexanone
Concen: 1.022 ug/L
RT: 8.35 min Scan# 2258
Delta R.T. 0.00 min
Lab File: VU033350.D
Acq: 20 Jul 2019 00:19

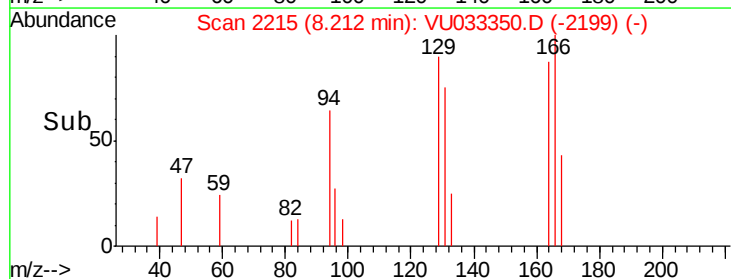
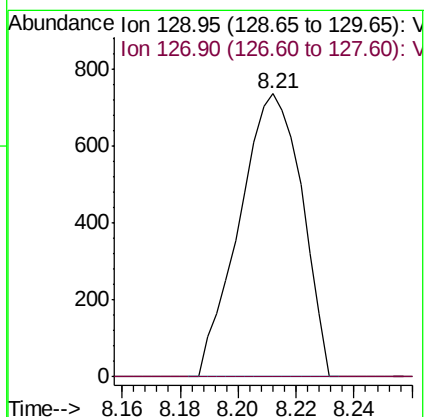
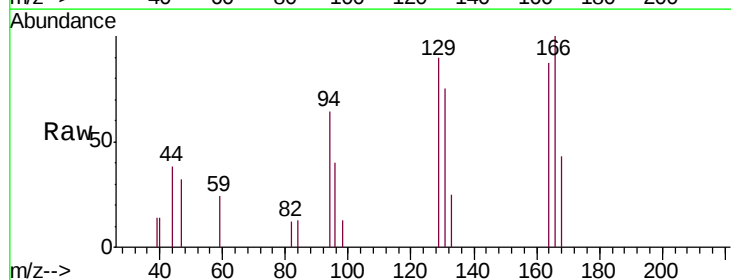
Instrument :
MSVOA_U
ClientSampleId :
A52Q8

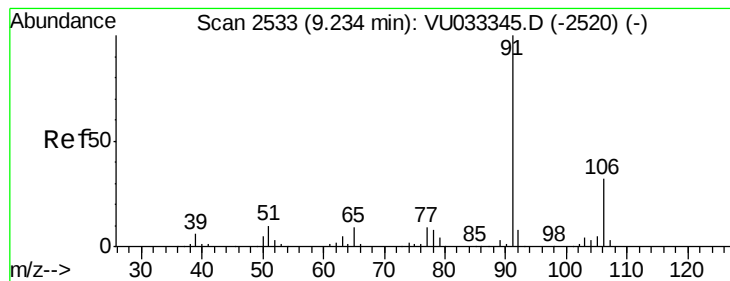
Tgt Ion: 43 Resp: 3784
Ion Ratio Lower Upper
43 100
58 24.5 44.1 66.1#
57 11.4 15.8 23.8#
100 4.9 9.4 14.2#



#49
Dibromochloromethane
Concen: 0.145 ug/L
RT: 8.21 min Scan# 2215
Delta R.T. -0.25 min
Lab File: VU033350.D
Acq: 20 Jul 2019 00:19

Tgt Ion: 129 Resp: 1101
Ion Ratio Lower Upper
129 100
127 0.0 51.9 96.5#





#52

Ethylbenzene

Concen: 0.569 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033350.D

Acq: 20 Jul 2019 00:19

Instrument :

MSVOA_U

ClientSampleId :

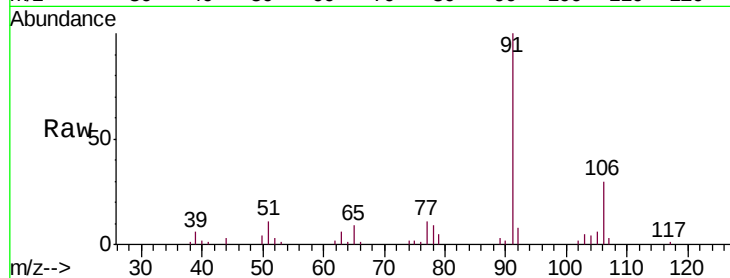
A52Q8

Tgt Ion: 91 Resp: 21290

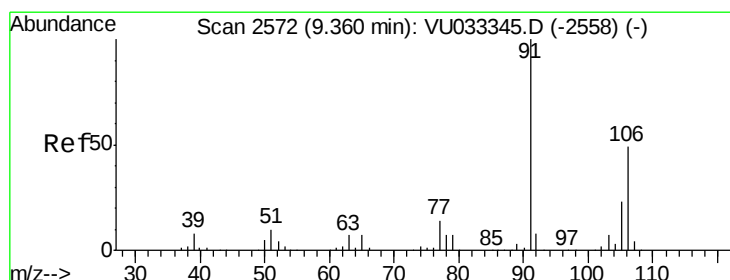
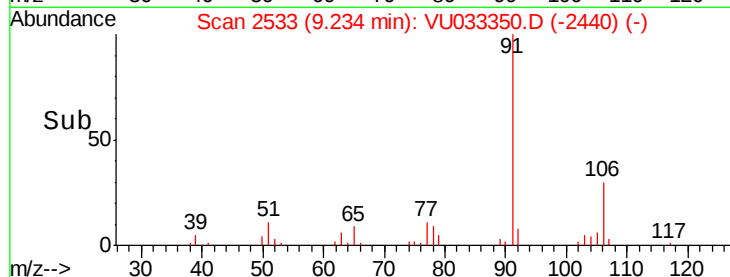
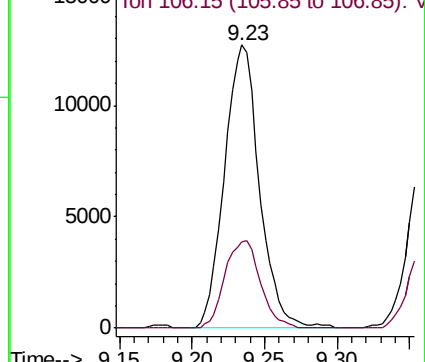
Ion Ratio Lower Upper

91 100

106 30.4 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VU033350.D (-2440) (-)



#53

m,p-Xylene

Concen: 0.449 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033350.D

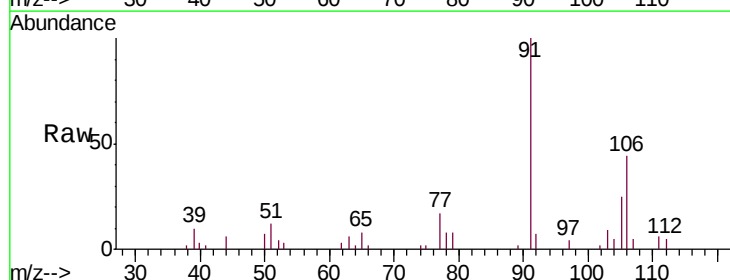
Acq: 20 Jul 2019 00:19

Tgt Ion: 106 Resp: 6346

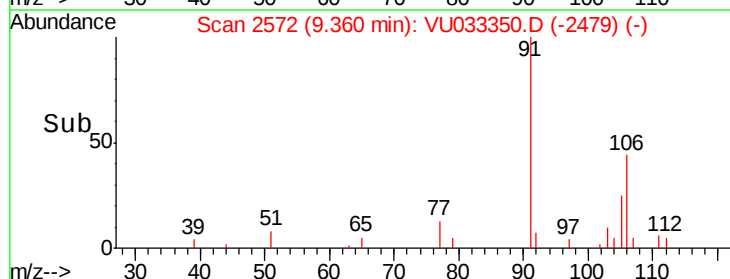
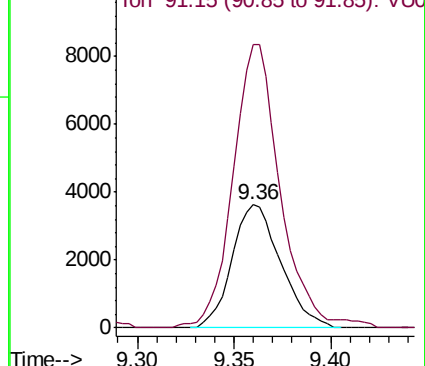
Ion Ratio Lower Upper

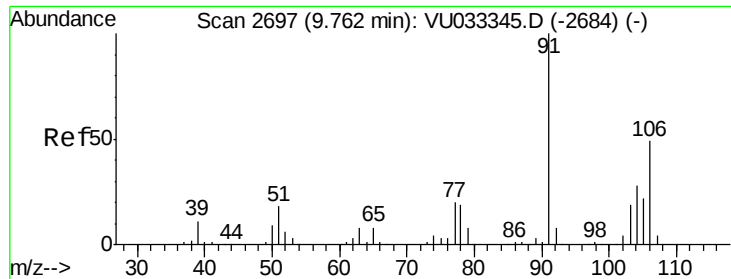
106 100

91 229.5 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VU033350.D (-2479) (-)

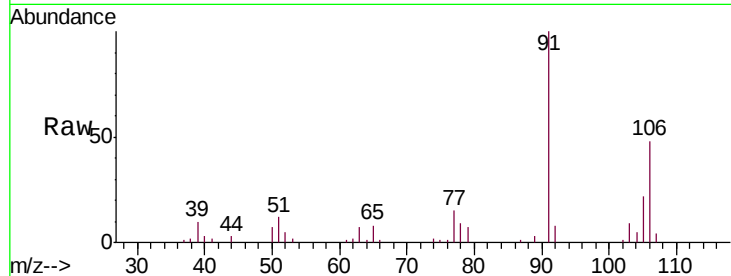




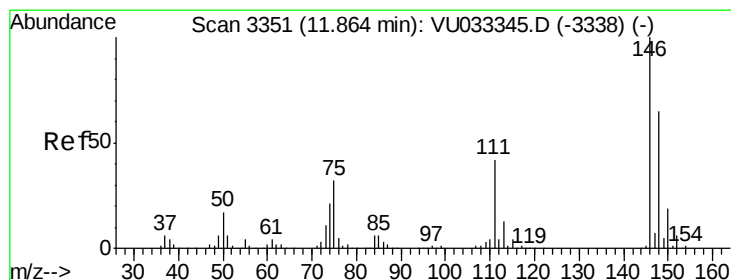
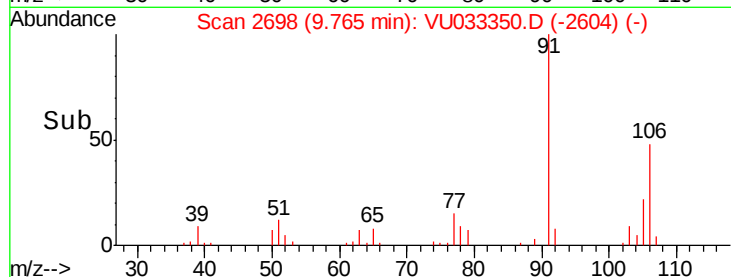
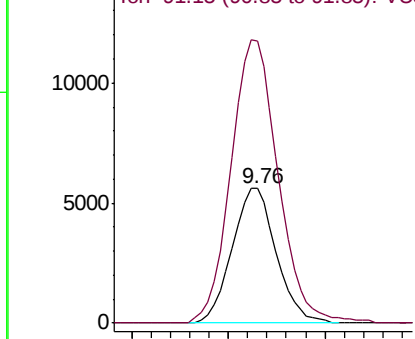
#54
o-Xylene
Concen: 0.659 ug/L
RT: 9.76 min Scan# 2698
Delta R.T. 0.00 min
Lab File: VU033350.D
Acq: 20 Jul 2019 00:19

Instrument :
MSVOA_U
ClientSampleId :
A52Q8

Tgt Ion:106 Resp: 8891
Ion Ratio Lower Upper
106 100
91 209.9 148.5 275.7

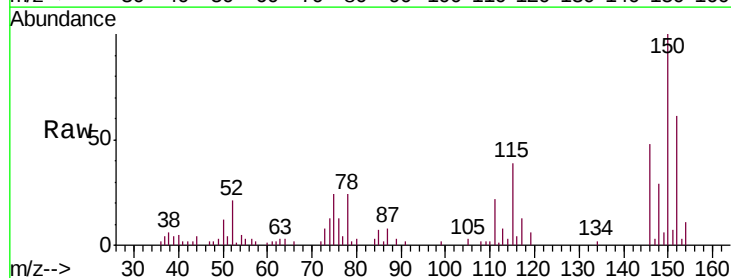


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

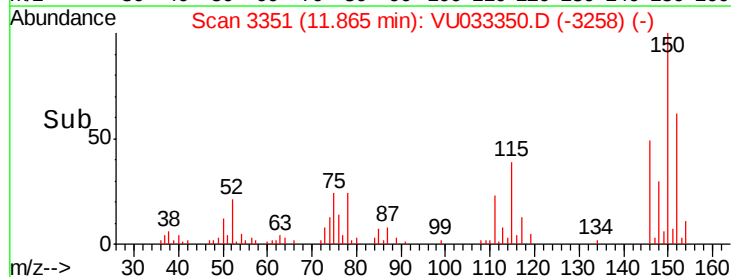
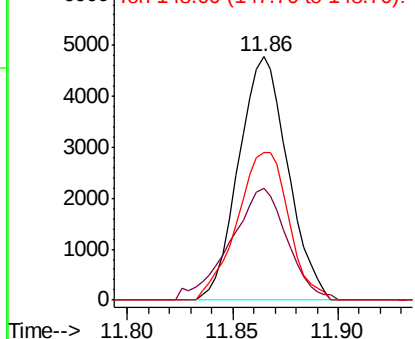


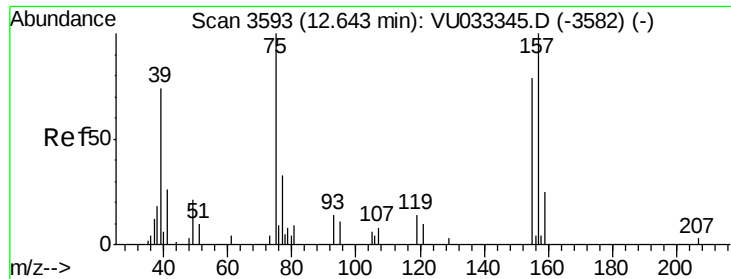
#65
1,2-Dichlorobenzene
Concen: 0.461 ug/L
RT: 11.86 min Scan# 3351
Delta R.T. 0.00 min
Lab File: VU033350.D
Acq: 20 Jul 2019 00:19

Tgt Ion:146 Resp: 7709
Ion Ratio Lower Upper
146 100
111 46.2 34.2 51.4
148 60.8 52.0 78.0



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

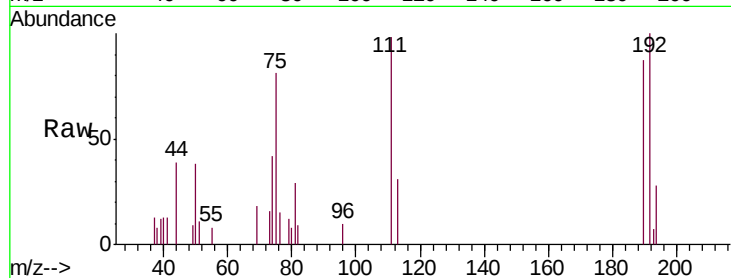




#66
 1,2-Dibromo-3-chloropropane
 Concen: 1.652 ug/L
 RT: 12.62 min Scan# 3587
 Delta R.T. -0.02 min
 Lab File: VU033350.D
 Acq: 20 Jul 2019 00:19

Instrument :
 MSVOA_U
 ClientSampleId :
 A52Q8

Tgt Ion: 75 Resp: 2089
 Ion Ratio Lower Upper
 75 100
 155 0.0 67.1 100.7#
 157 0.0 83.7 125.5#



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

