

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
 Data File : VU032357.D
 Acq On : 29 May 2019 13:41
 Operator : JC/SP
 Sample : K3045-08 20X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C52

Quant Time: May 30 05:38:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 30 05:34:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	426267	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	414481	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	211139	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	142475	5.95	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	119.00%
7) Chloroethane-d5	1.68	69	118923	5.33	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.60%
11) 1,1-Dichloroethene-d2	2.27	63	198055	4.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.80%
20) 2-Butanone-d5	4.19	46	340412	50.41	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.82%
24) Chloroform-d	4.64	84	257785	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.40%
26) 1,2-Dichloroethane-d4	5.31	65	130726	4.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.80%
32) Benzene-d6	5.33	84	554502	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
36) 1,2-Dichloropropane-d6	6.32	67	166793	4.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.20%
41) Toluene-d8	7.56	98	503651	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
43) trans-1,3-Dichloropropene-	7.85	79	58506	3.98	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.60%
46) 2-Hexanone-d5	8.31	63	267349	48.38	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.76%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	134574	3.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	71.00%
64) 1,2-Dichlorobenzene-d4	11.85	152	205036	3.52	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	70.40%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	3057	0.167	ug/L	95
8) Chloroethane	1.47	64	161564	13.795	ug/L #	50
12) 1,1-Dichloroethene	2.27	96	1785	0.118	ug/L #	1
13) Acetone	2.30	43	30161	14.416	ug/L	53
15) Methyl Acetate	2.70	43	147217	23.981	ug/L #	41
30) Cyclohexane	4.99	56	18253	0.908	ug/L	93
33) Benzene	5.38	78	158156	2.821	ug/L	100
35) Methylcyclohexane	6.41	83	10741	0.485	ug/L #	65
37) 1,2-Dichloropropane	6.33	63	16600	1.230	ug/L #	89
39) cis-1,3-Dichloropropene	7.23	75	3683	0.192	ug/L #	60
42) Toluene	7.64	91	9499	0.159	ug/L	98
44) trans-1,3-Dichloropropene	7.85	75	2583	0.171	ug/L	95
45) 1,1,2-Trichloroethane	8.04	97	5318	0.510	ug/L #	21
48) 2-Hexanone	8.37	43	10764	2.057	ug/L #	86
52) Ethylbenzene	9.24	91	2720049	45.359	ug/L	98
53) m,p-Xylene	9.37	106	256604	11.507	ug/L	97
56) Isopropylbenzene	10.16	105	254861	4.524	ug/L	100

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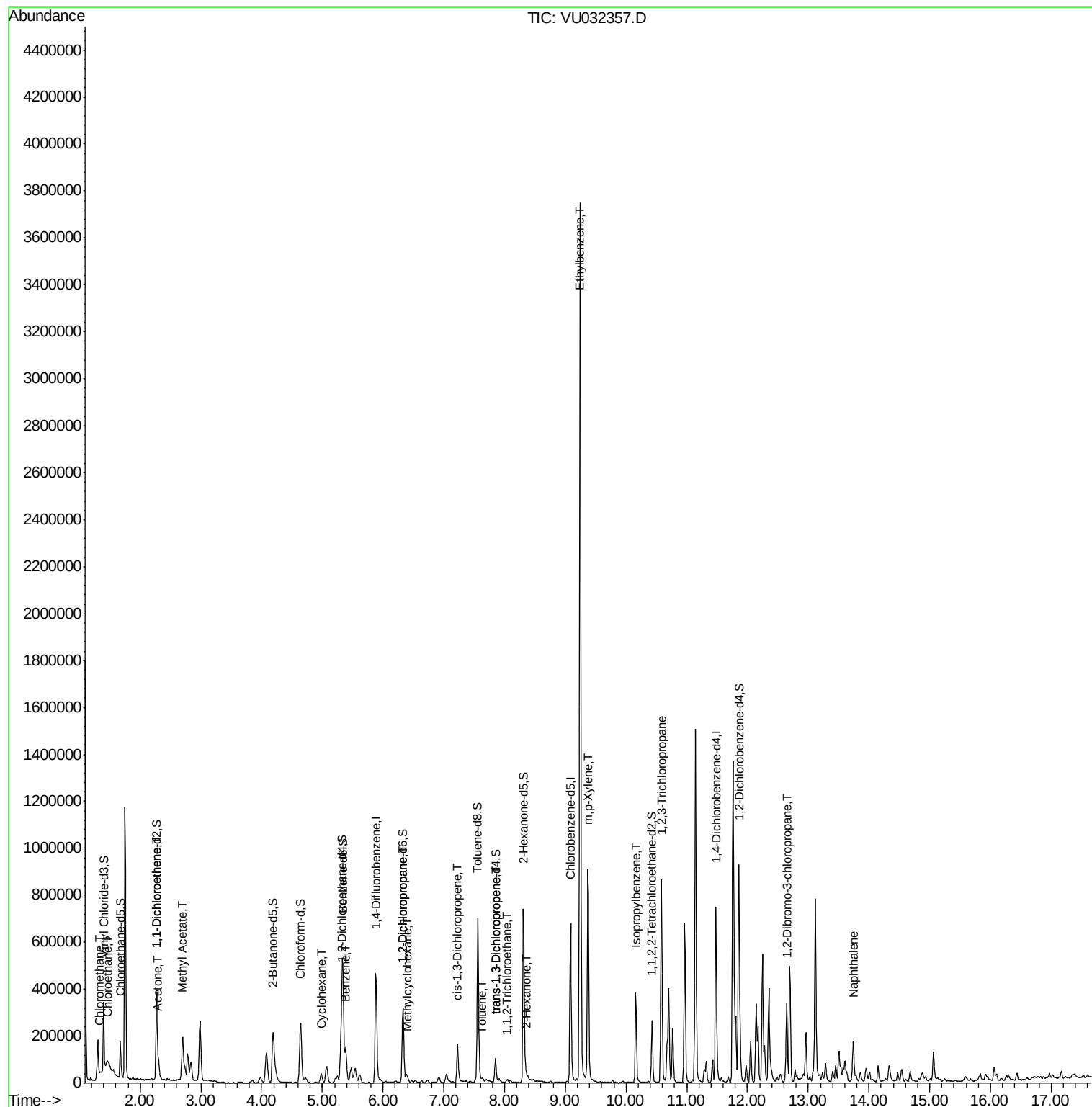
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	10.58	75	3789	0.431	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.65	75	1585	0.776	ug/L #	6
69) Naphthalene	13.74	128	151357	5.911	ug/L	97

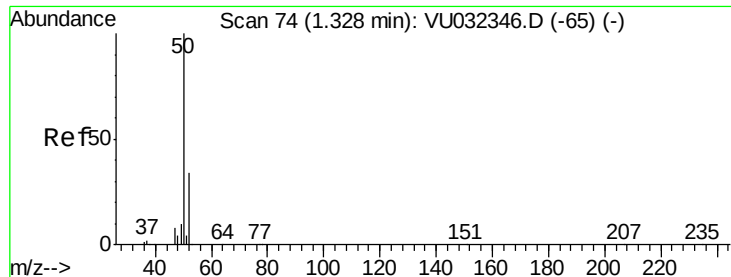
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.167 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

Instrument :

MSVOA_U

ClientSampleId :

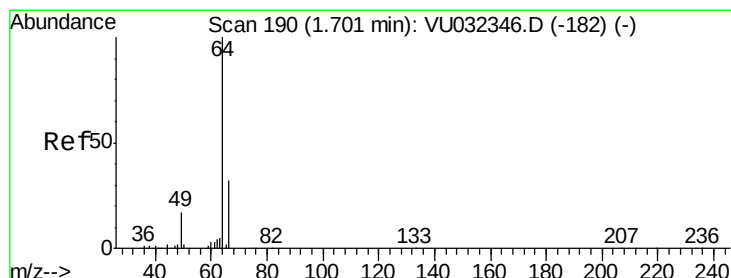
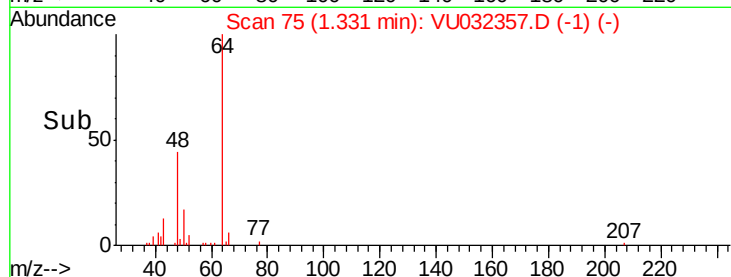
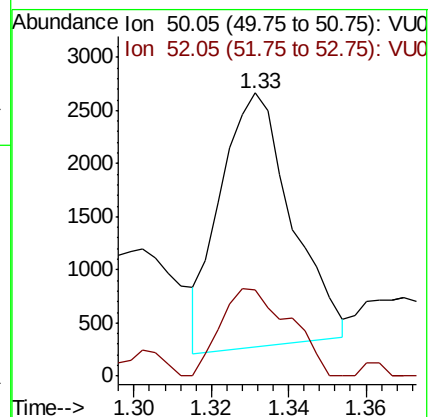
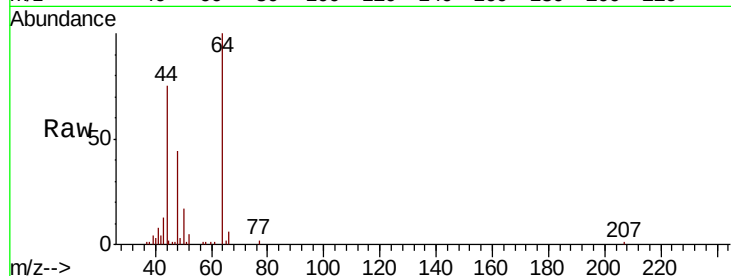
C0C52

Tgt Ion: 50 Resp: 3057

Ion Ratio Lower Upper

50 100

52 30.4 23.3 43.3



#8

Chloroethane

Concen: 13.795 ug/L

RT: 1.47 min Scan# 118

Delta R.T. -0.23 min

Lab File: VU032357.D

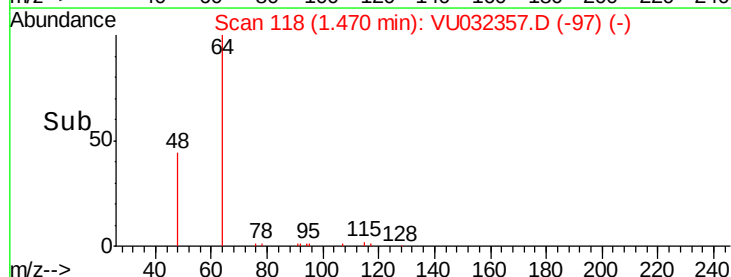
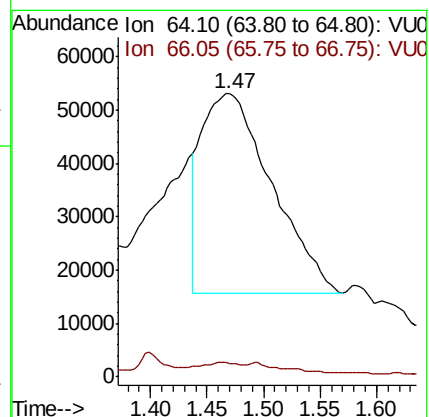
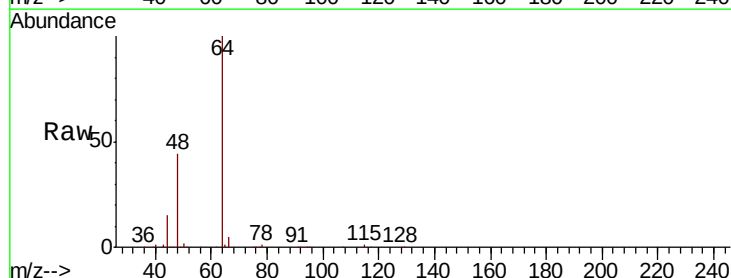
Acq: 29 May 2019 13:41

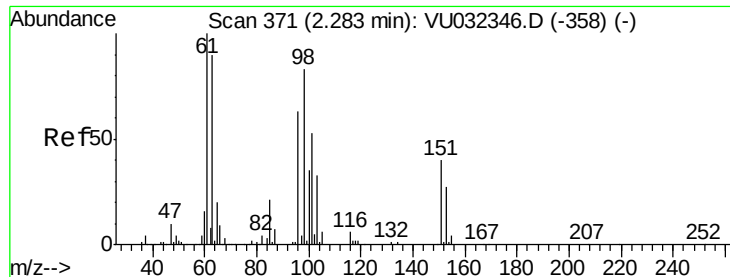
Tgt Ion: 64 Resp: 161564

Ion Ratio Lower Upper

64 100

66 4.8 23.1 42.9#





#12

1,1-Dichloroethene

Concen: 0.118 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

Instrument :

MSVOA_U

ClientSampleId :

C0C52

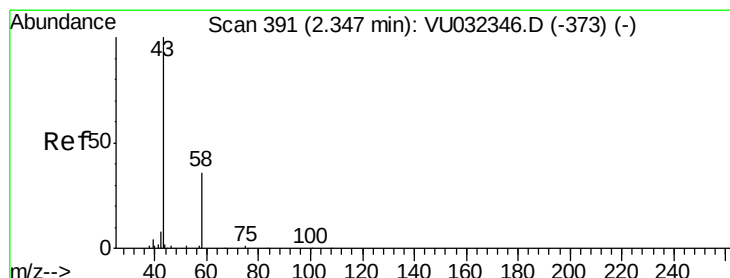
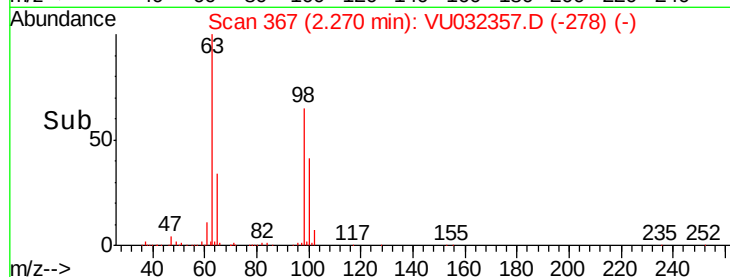
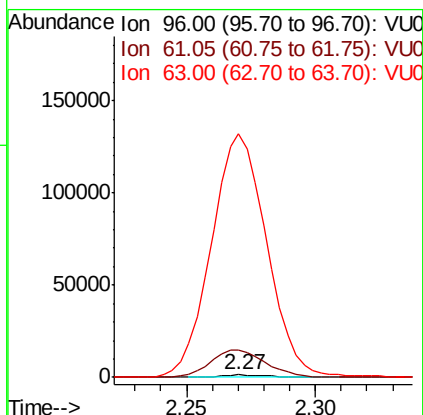
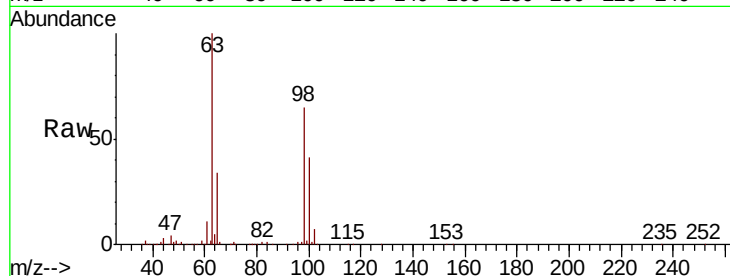
Tgt Ion: 96 Resp: 1785

Ion Ratio Lower Upper

96 100

61 1139.2 113.8 211.3#

63 10253.9 108.8 202.2#



#13

Acetone

Concen: 14.416 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.04 min

Lab File: VU032357.D

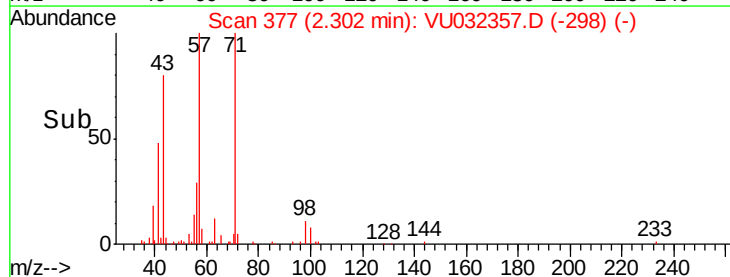
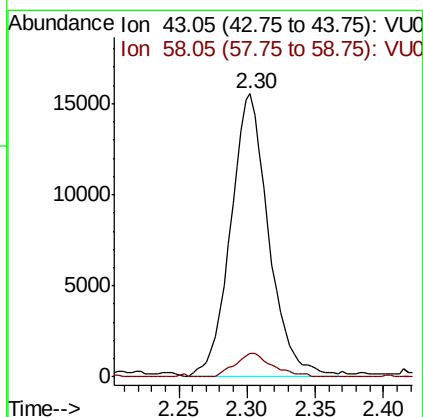
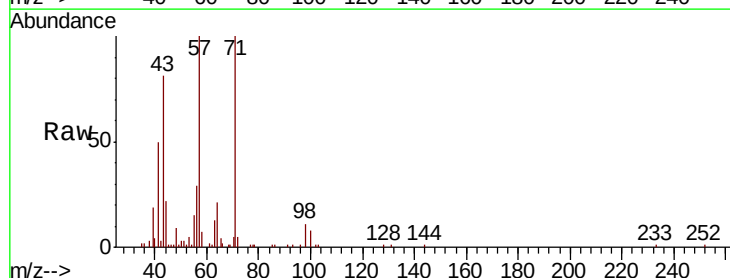
Acq: 29 May 2019 13:41

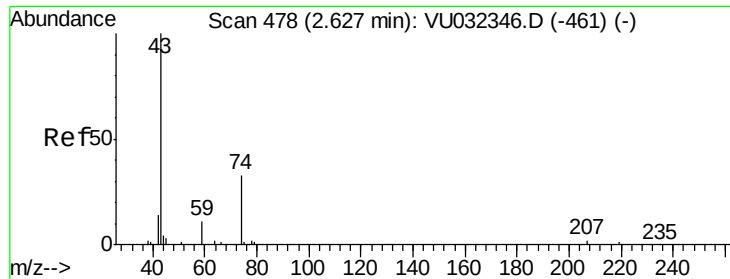
Tgt Ion: 43 Resp: 30161

Ion Ratio Lower Upper

43 100

58 8.3 0.0 72.6

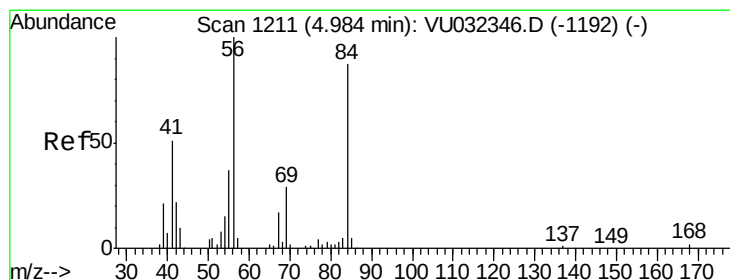
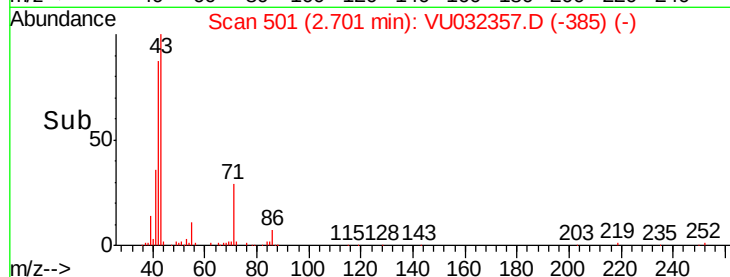
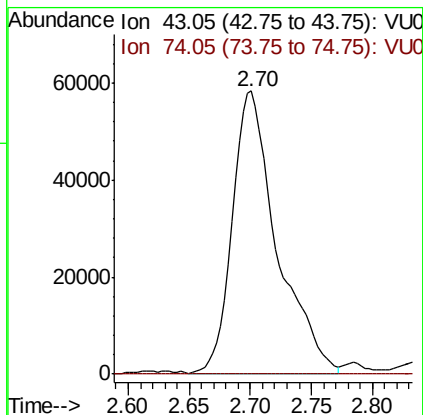
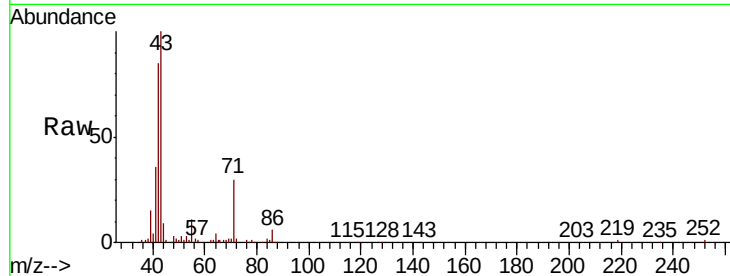




#15
Methyl Acetate
Concen: 23.981 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.07 min
Lab File: VU032357.D
Acq: 29 May 2019 13:41

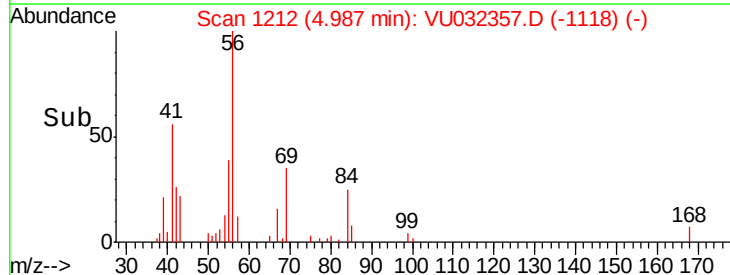
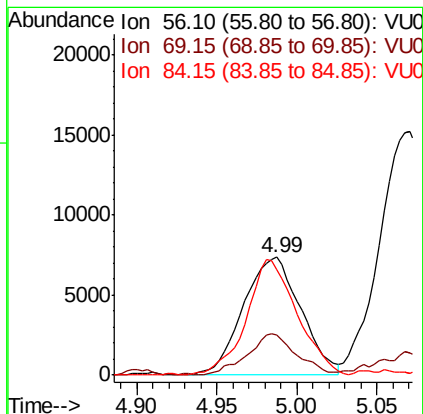
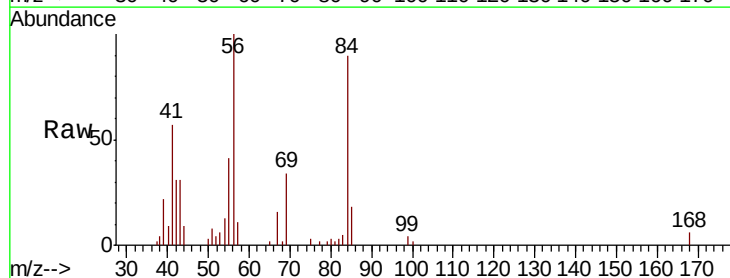
Instrument :
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C0C52

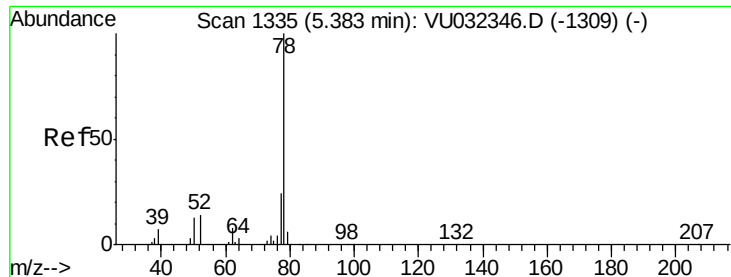
Tgt Ion: 43 Resp: 147217
Ion Ratio Lower Upper
43 100
74 0.1 27.3 40.9#



#30
Cyclohexane
Concen: 0.908 ug/L
RT: 4.99 min Scan# 1212
Delta R.T. 0.00 min
Lab File: VU032357.D
Acq: 29 May 2019 13:41

Tgt Ion: 56 Resp: 18253
Ion Ratio Lower Upper
56 100
69 29.9 26.6 39.8
84 86.2 75.0 112.6





#33

Benzene

Concen: 2.821 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

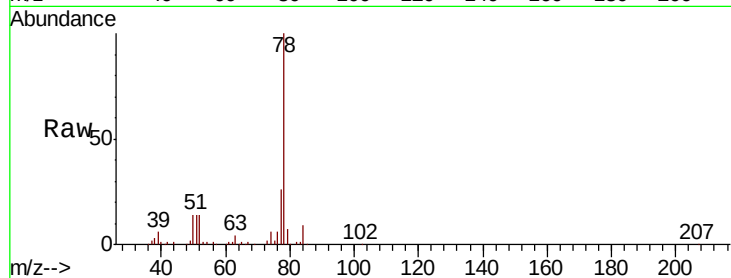
Instrument :

MSVOA_U

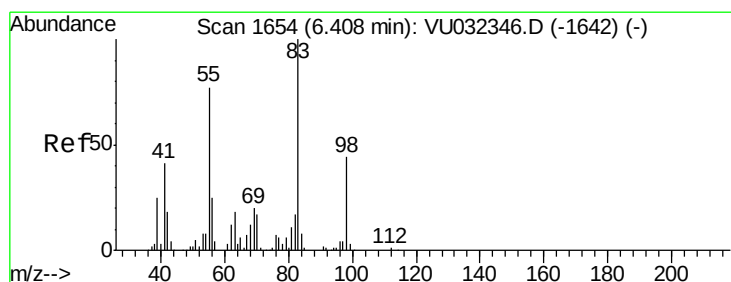
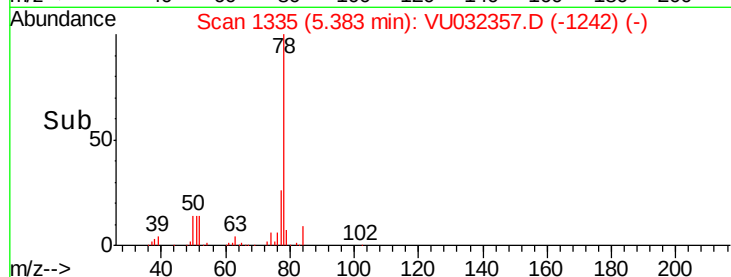
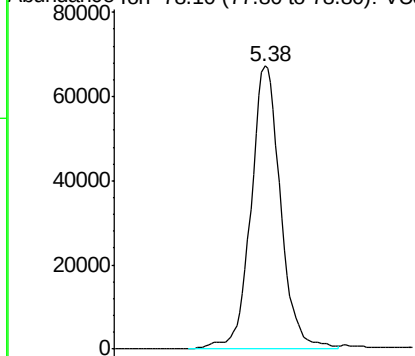
ClientSampleId :

C0C52

Tgt Ion: 78 Resp: 158156



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.485 ug/L

RT: 6.41 min Scan# 1653

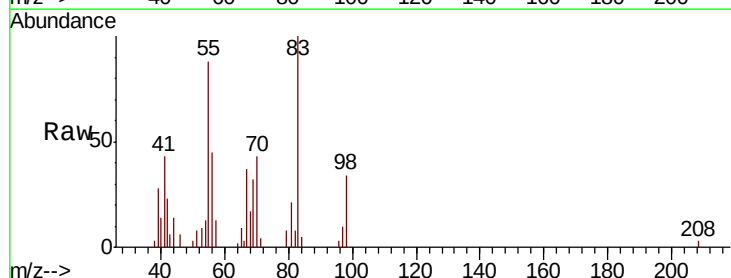
Delta R.T. -0.00 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

Tgt Ion: 83 Resp: 10741

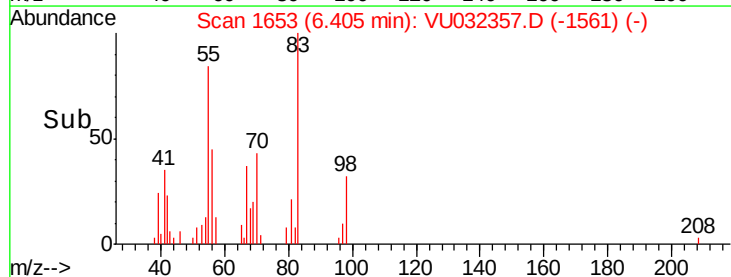
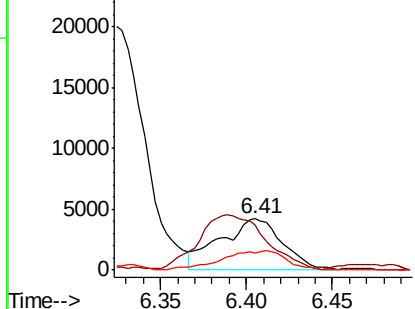
Ion	Ratio	Lower	Upper
83	100		
55	115.7	59.7	89.5#
98	38.5	37.5	56.3

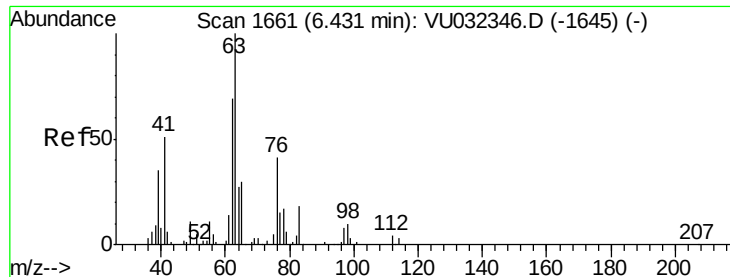


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

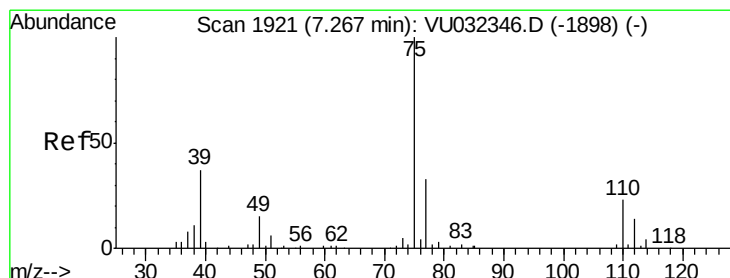
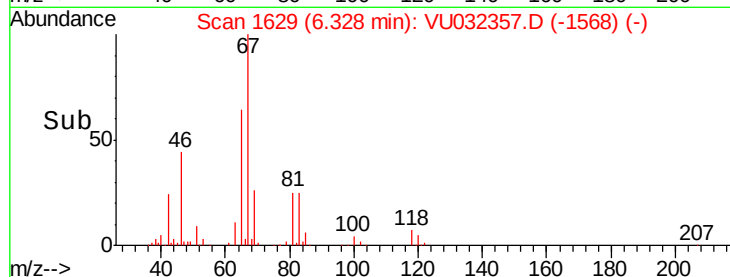
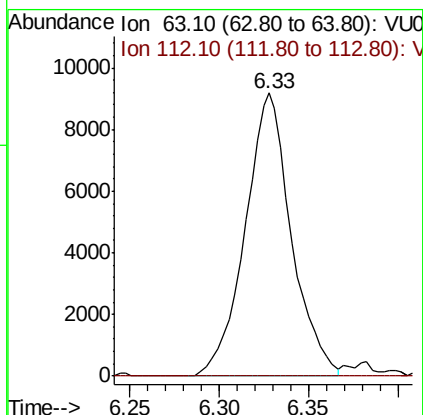
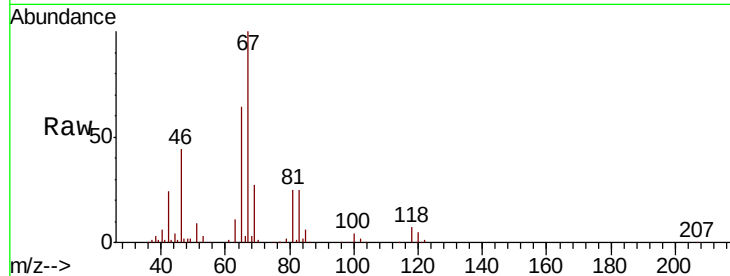




#37
 1,2-Dichloropropane
 Concen: 1.230 ug/L
 RT: 6.33 min Scan# 1629
 Delta R.T. -0.10 min
 Lab File: VU032357.D
 Acq: 29 May 2019 13:41

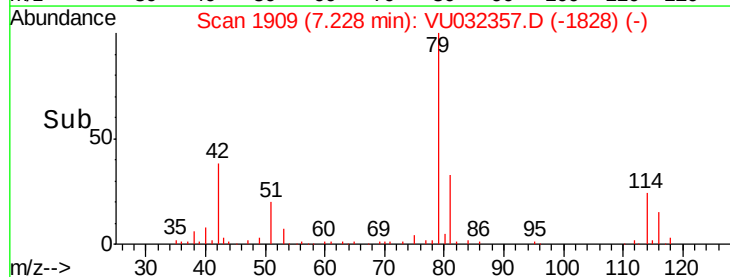
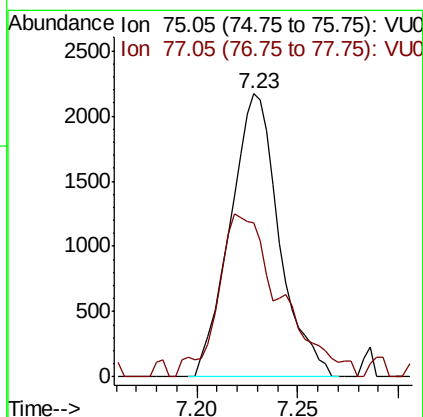
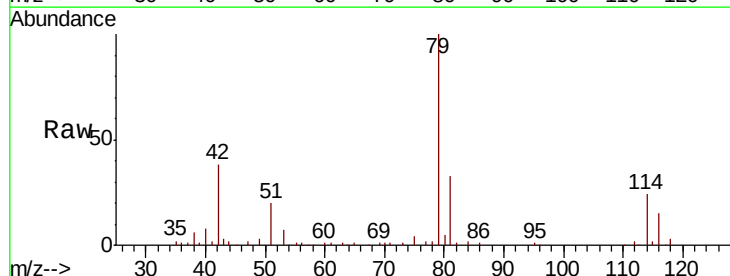
Instrument :
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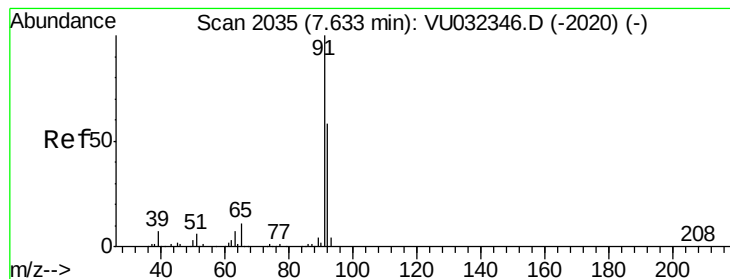
Tgt Ion: 63 Resp: 16600
 Ion Ratio Lower Upper
 63 100
 112 1.2 3.8 5.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.192 ug/L
 RT: 7.23 min Scan# 1909
 Delta R.T. -0.04 min
 Lab File: VU032357.D
 Acq: 29 May 2019 13:41

Tgt Ion: 75 Resp: 3683
 Ion Ratio Lower Upper
 75 100
 77 54.6 22.6 42.0#





#42

Toluene

Concen: 0.159 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

Instrument :

MSVOA_U

ClientSampleId :

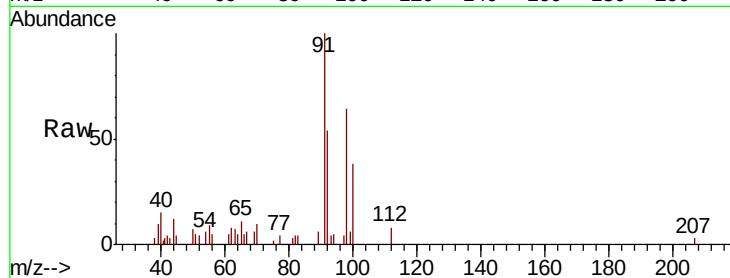
C0C52

Tgt Ion: 91 Resp: 9499

Ion Ratio Lower Upper

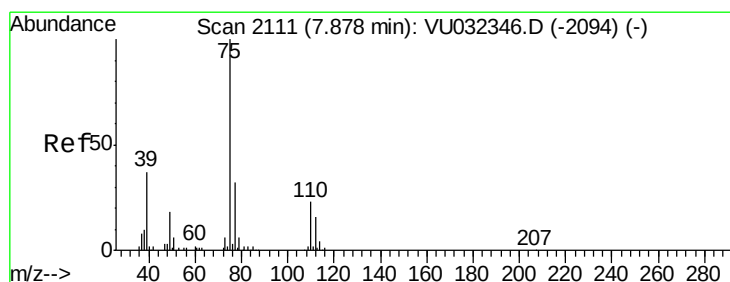
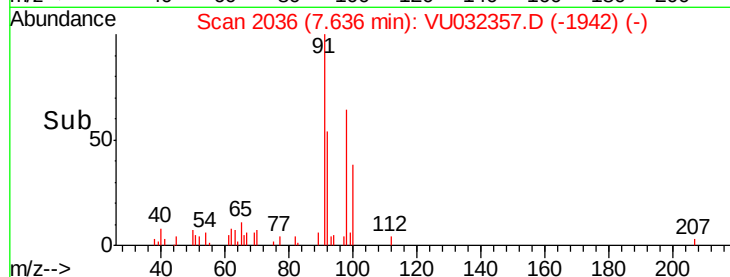
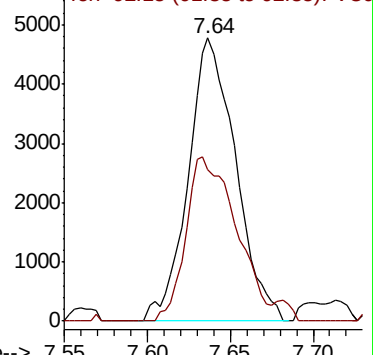
91 100

92 53.7 38.5 71.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.171 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.03 min

Lab File: VU032357.D

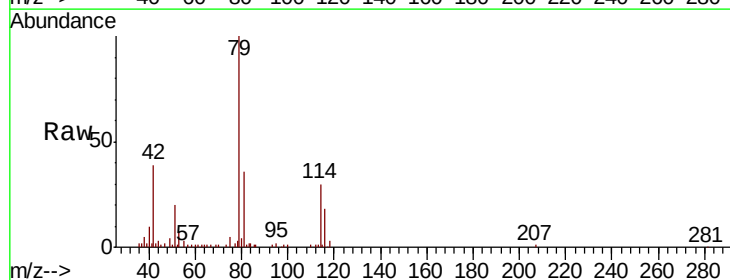
Acq: 29 May 2019 13:41

Tgt Ion: 75 Resp: 2583

Ion Ratio Lower Upper

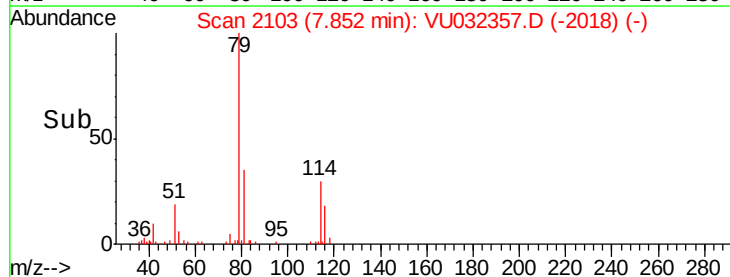
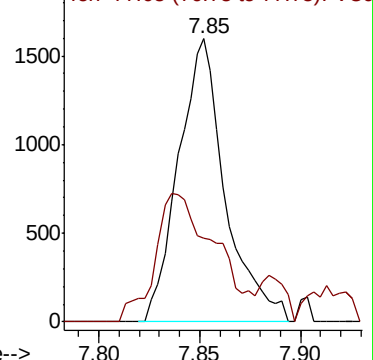
75 100

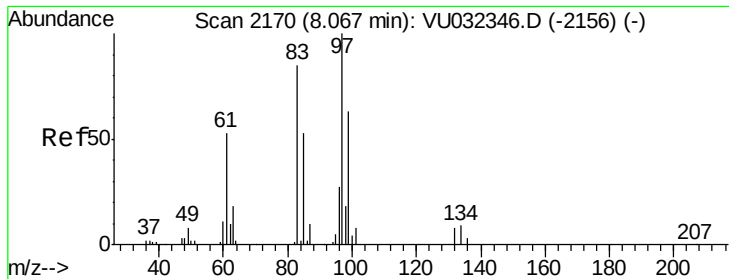
77 29.7 22.5 41.9



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 0.510 ug/L

RT: 8.04 min Scan# 2162

Delta R.T. -0.03 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

Instrument :

MSVOA_U

ClientSampleId :

C0C52

Tgt Ion: 97 Resp: 5318

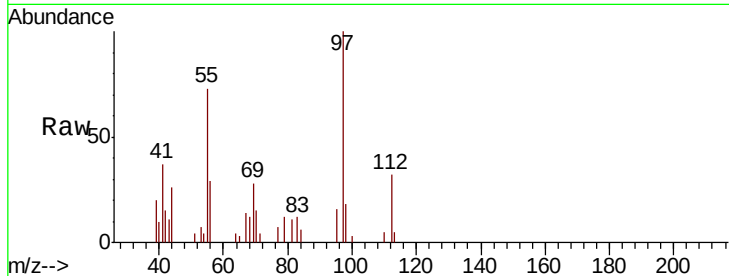
Ion Ratio Lower Upper

97 100

99 0.0 44.2 82.0#

83 12.1 60.5 112.3#

85 0.0 36.3 67.3#



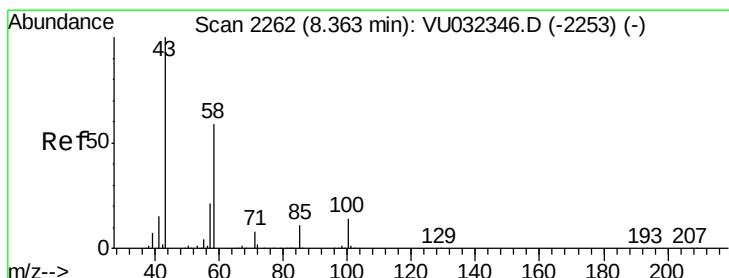
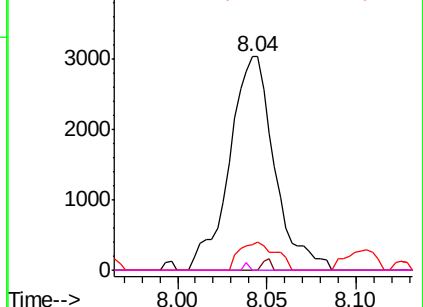
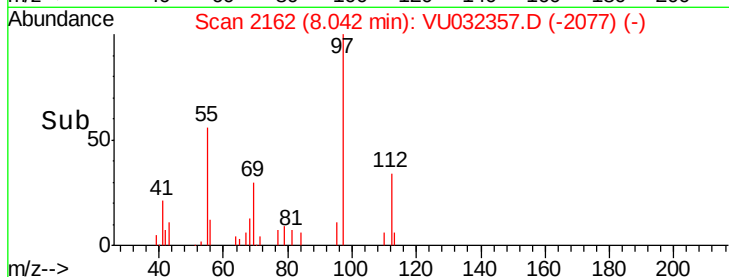
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#48

2-Hexanone

Concen: 2.057 ug/L

RT: 8.37 min Scan# 2265

Delta R.T. 0.01 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

Tgt Ion: 43 Resp: 10764

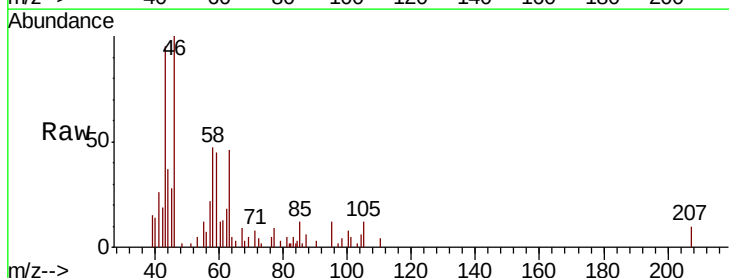
Ion Ratio Lower Upper

43 100

58 49.9 49.7 74.5

57 30.4 17.1 25.7#

100 13.8 11.6 17.4



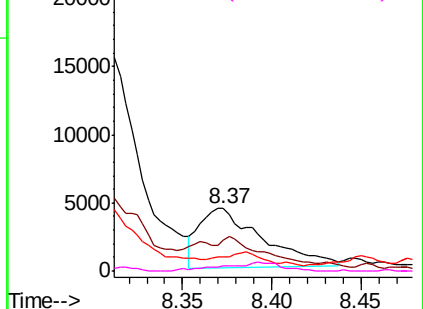
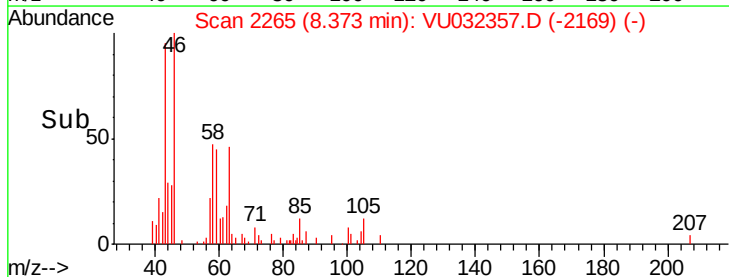
Abundance

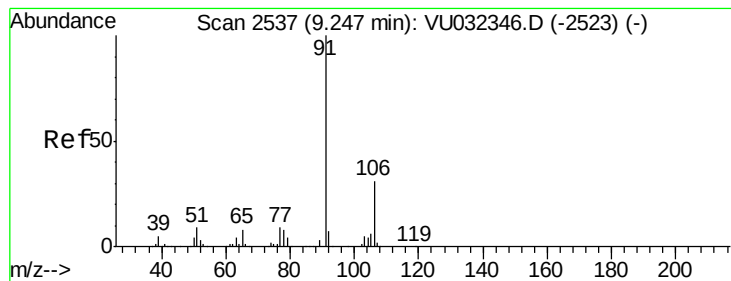
Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#52

Ethylbenzene

Concen: 45.359 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

Instrument :

MSVOA_U

ClientSampleId :

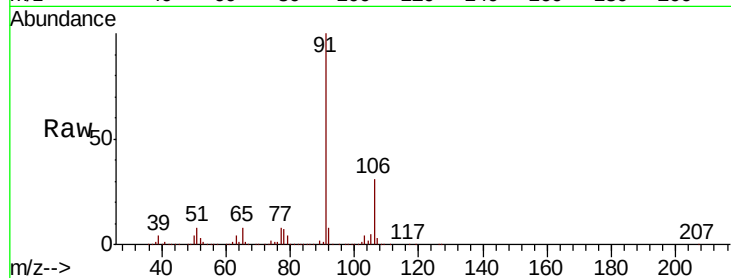
C0C52

Tgt Ion: 91 Resp: 2720049

Ion Ratio Lower Upper

91 100

106 31.1 20.9 38.9



Abundance Ion 91.15 (90.85 to 91.85): VU032346.D (-2523) (-)

Ion 106.15 (105.85 to 106.85): VU032346.D (-2523) (-)

2000000

1500000

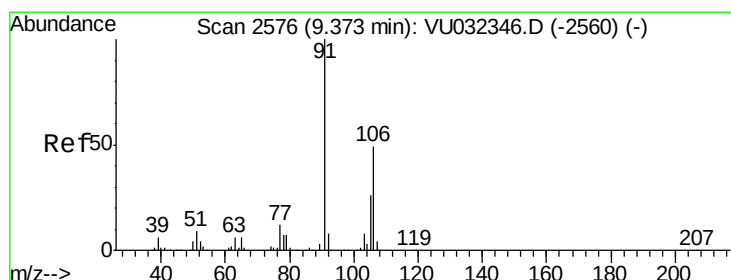
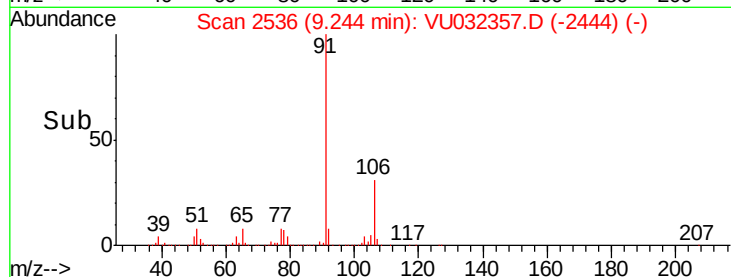
1000000

500000

0

9.20 9.30

Time-->



#53

m,p-Xylene

Concen: 11.507 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032357.D

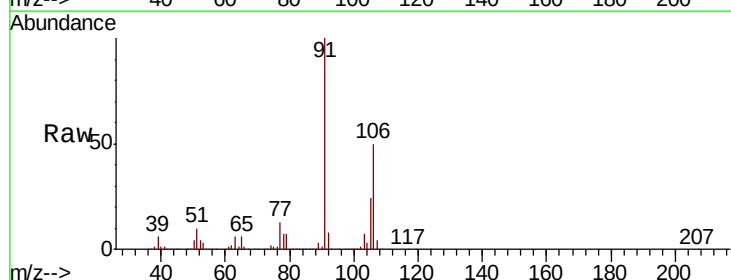
Acq: 29 May 2019 13:41

Tgt Ion: 106 Resp: 256604

Ion Ratio Lower Upper

106 100

91 200.4 143.9 267.2



Abundance Ion 106.15 (105.85 to 106.85): VU032346.D (-2560) (-)

Ion 91.15 (90.85 to 91.85): VU032346.D (-2560) (-)

300000

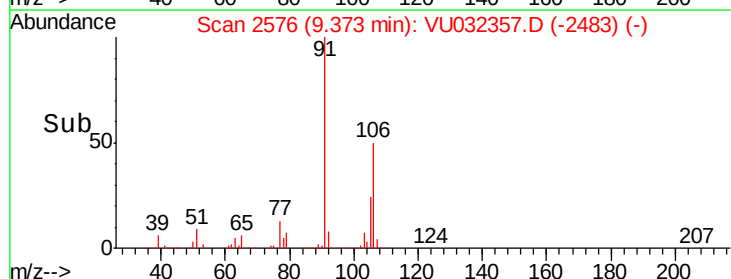
200000

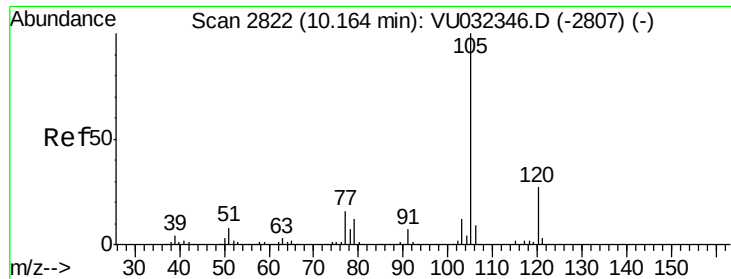
100000

0

9.30 9.35 9.40 9.45

Time-->





#56

Isopropylbenzene

Concen: 4.524 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032357.D

Acq: 29 May 2019 13:41

Instrument :

MSVOA_U

ClientSampled :

C0C52

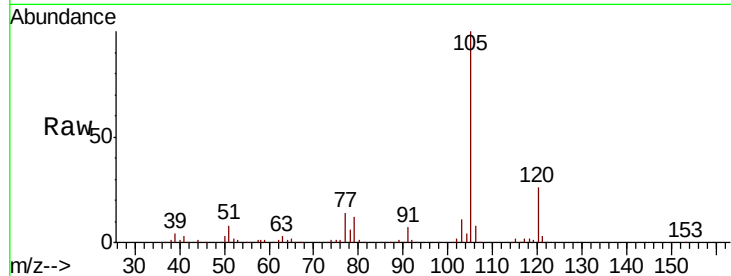
Tgt Ion: 105 Resp: 254861

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.6

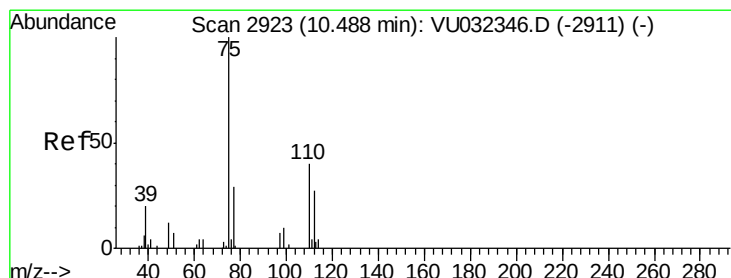
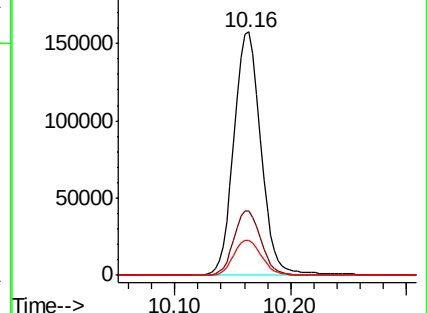
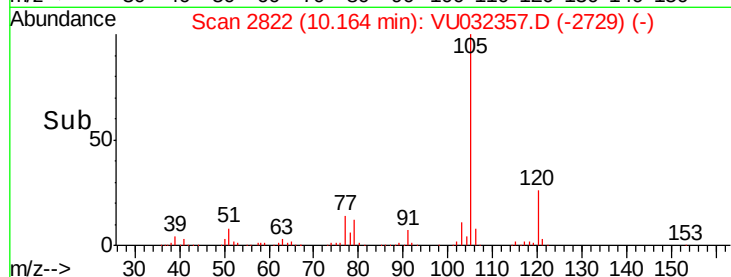
77 15.1 11.9 17.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#59

1,2,3-Trichloropropane

Concen: 0.431 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. 0.09 min

Lab File: VU032357.D

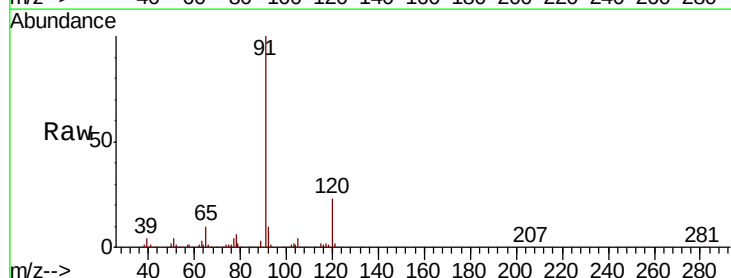
Acq: 29 May 2019 13:41

Tgt Ion: 75 Resp: 3789

Ion Ratio Lower Upper

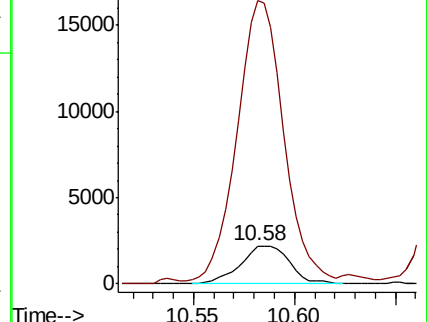
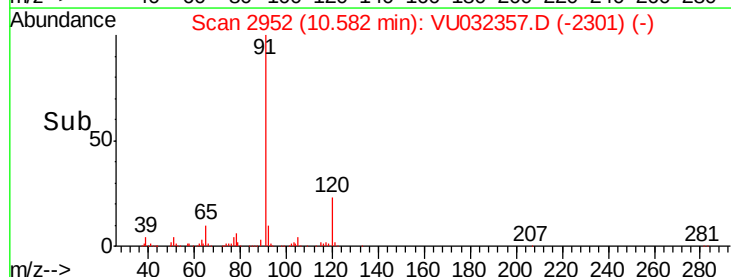
75 100

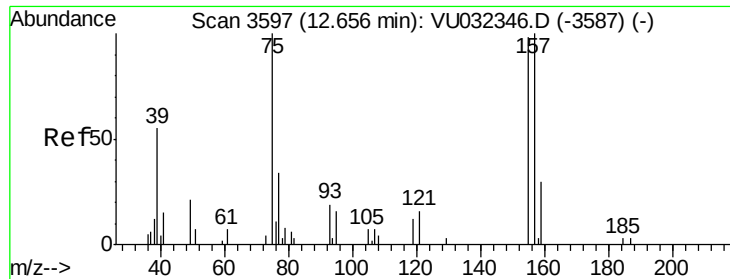
77 686.4 28.2 42.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V

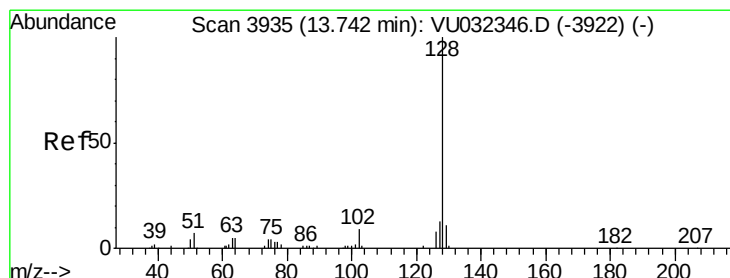
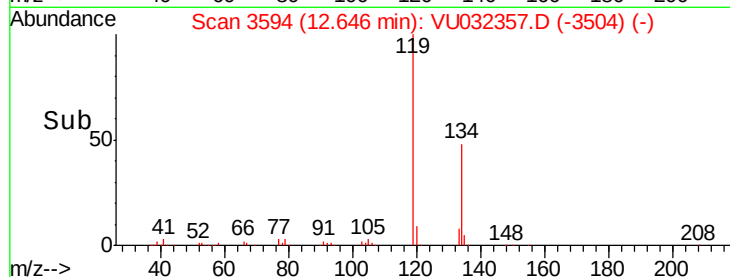
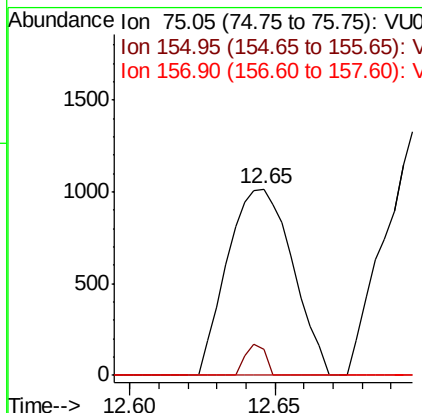
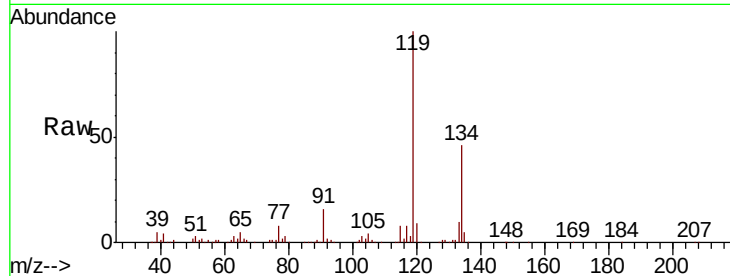




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.776 ug/L
 RT: 12.65 min Scan# 3594
 Delta R.T. -0.01 min
 Lab File: VU032357.D
 Acq: 29 May 2019 13:41

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C52

Tgt Ion: 75 Resp: 1585
 Ion Ratio Lower Upper
 75 100
 155 14.3 69.3 103.9#
 157 0.0 90.6 135.8#



#69
 Naphthalene
 Concen: 5.911 ug/L
 RT: 13.74 min Scan# 3935
 Delta R.T. 0.00 min
 Lab File: VU032357.D
 Acq: 29 May 2019 13:41

Tgt Ion: 128 Resp: 151357
 Ion Ratio Lower Upper
 128 100
 129 10.3 9.2 13.8
 127 12.7 11.1 16.7

