

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
 Data File : VU032358.D
 Acq On : 29 May 2019 14:05
 Operator : JC/SP
 Sample : K3045-11 20X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C55

Quant Time: May 30 05:39:04 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	420121	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	396390	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	194551	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	137050	5.81	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	116.20%
7) Chloroethane-d5	1.68	69	118236	5.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.40%
11) 1,1-Dichloroethene-d2	2.27	63	201046	4.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.40%
20) 2-Butanone-d5	4.19	46	337721	50.74	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.48%
24) Chloroform-d	4.64	84	254922	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.60%
26) 1,2-Dichloroethane-d4	5.31	65	131724	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.60%
32) Benzene-d6	5.33	84	557237	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
36) 1,2-Dichloropropane-d6	6.33	67	159861	4.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.40%
41) Toluene-d8	7.56	98	505219	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.40%
43) trans-1,3-Dichloropropene-	7.85	79	60080	4.28	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.60%
46) 2-Hexanone-d5	8.31	63	271947	51.45	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.90%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	130816	3.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	72.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	202590	3.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	75.60%#

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	4094	0.227 ug/L #	75
8) Chloroethane	1.48	64	236261	20.468 ug/L #	49
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2242	0.151 ug/L #	18
12) 1,1-Dichloroethene	2.27	96	1667	0.111 ug/L #	1
13) Acetone	2.30	43	9137	4.431 ug/L	55
15) Methyl Acetate	2.70	43	31175	5.153 ug/L #	41
30) Cyclohexane	4.98	56	27700	1.440 ug/L #	78
33) Benzene	5.38	78	273275	5.096 ug/L	100
35) Methylcyclohexane	6.41	83	17530	0.827 ug/L #	79
37) 1,2-Dichloropropane	6.32	63	16623	1.288 ug/L #	86
39) cis-1,3-Dichloropropene	7.22	75	3346	0.182 ug/L #	77
42) Toluene	7.64	91	8483	0.149 ug/L	100
44) trans-1,3-Dichloropropene	7.85	75	1960	0.136 ug/L #	69
45) 1,1,2-Trichloroethane	8.04	97	5343	0.536 ug/L #	19
48) 2-Hexanone	8.37	43	11256	2.249 ug/L #	79
52) Ethylbenzene	9.24	91	250868	4.374 ug/L	98
53) m,p-Xylene	9.37	106	176161	8.260 ug/L	93

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QLast Update : Thu May 30 05:34:28 2019
Response via : Initial Calibration

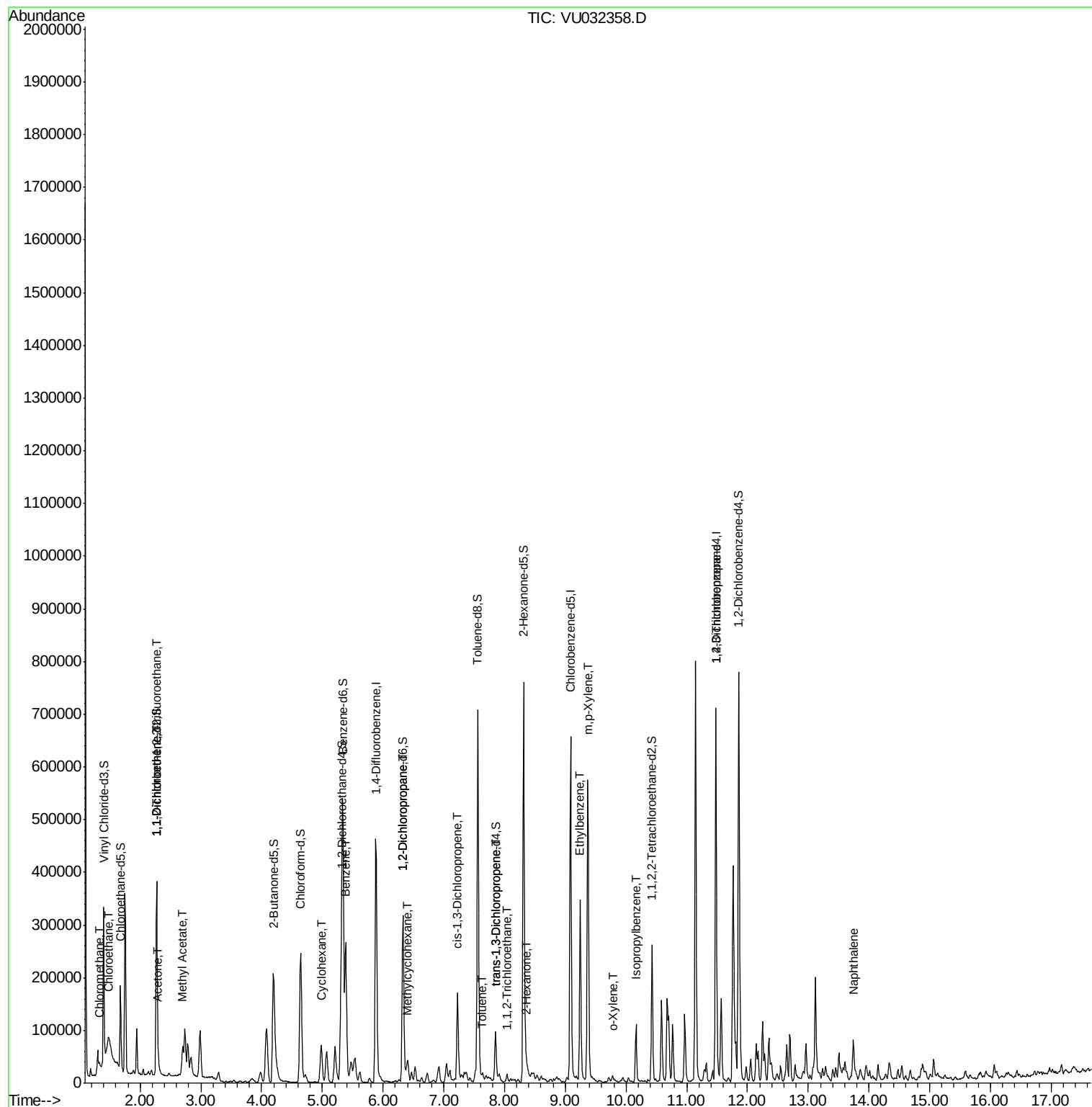
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.78	106	3409	0.160	ug/L	87
56) Isopropylbenzene	10.16	105	69799	1.296	ug/L	99
59) 1,2,3-Trichloropropane	11.48	75	21226	2.525	ug/L	98
69) Naphthalene	13.74	128	71621	3.035	ug/L #	97

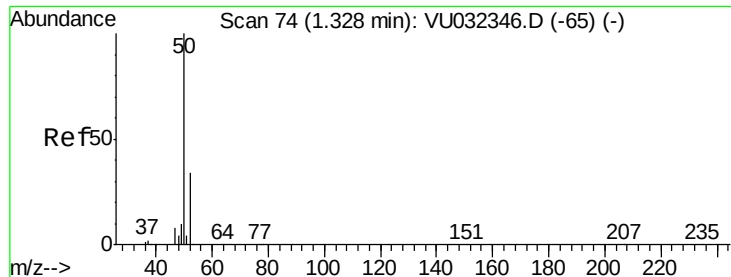
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.227 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Instrument :

MSVOA_U

ClientSampleId :

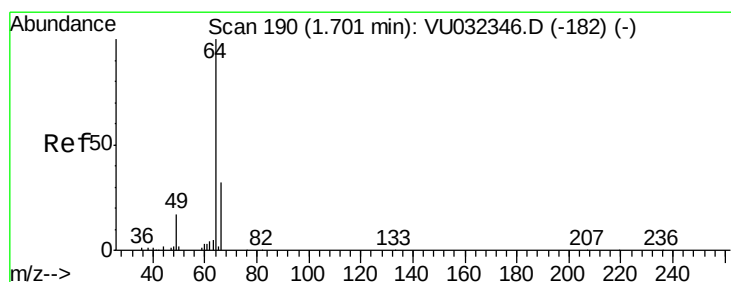
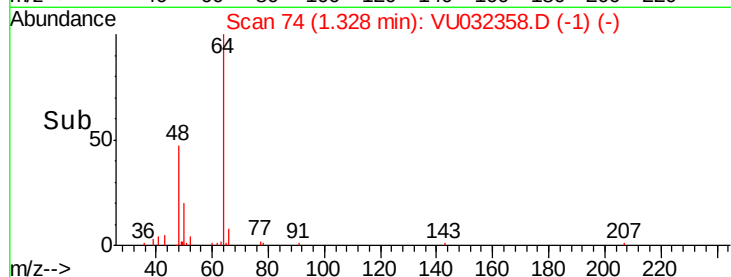
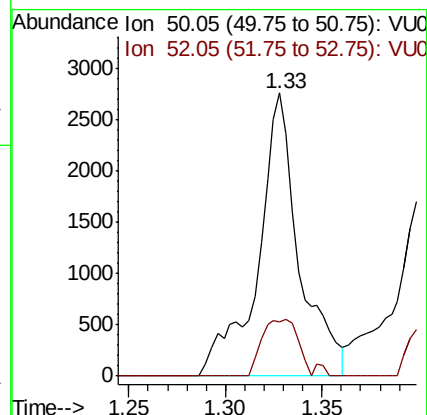
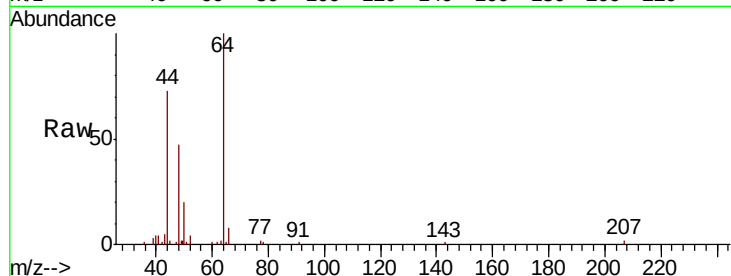
C0C55

Tgt Ion: 50 Resp: 4094

Ion Ratio Lower Upper

50 100

52 19.2 23.3 43.3#



#8

Chloroethane

Concen: 20.468 ug/L

RT: 1.48 min Scan# 122

Delta R.T. -0.22 min

Lab File: VU032358.D

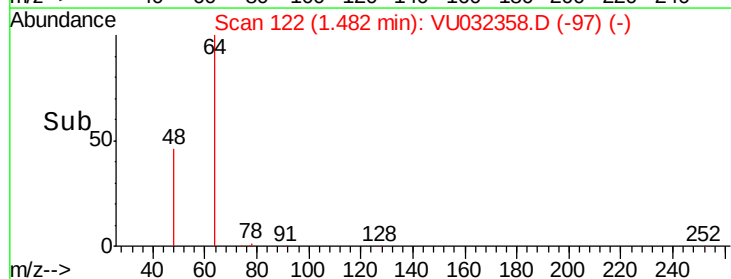
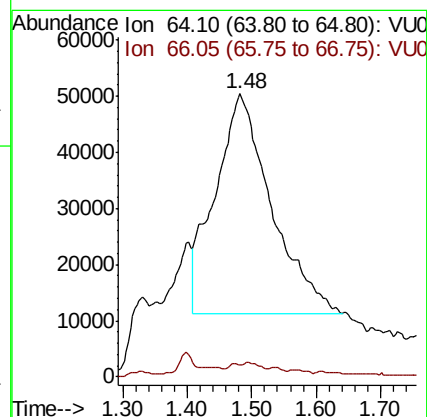
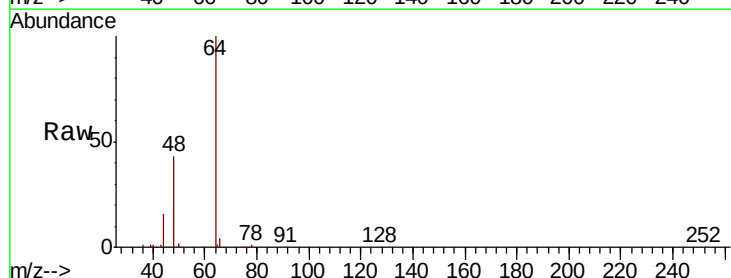
Acq: 29 May 2019 14:05

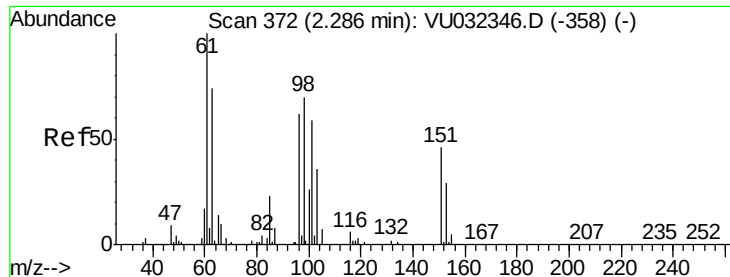
Tgt Ion: 64 Resp: 236261

Ion Ratio Lower Upper

64 100

66 4.1 23.1 42.9#





#10

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

Concen: 0.151 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.02 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Instrument :

MSVOA_U

ClientSampleId :

C0C55

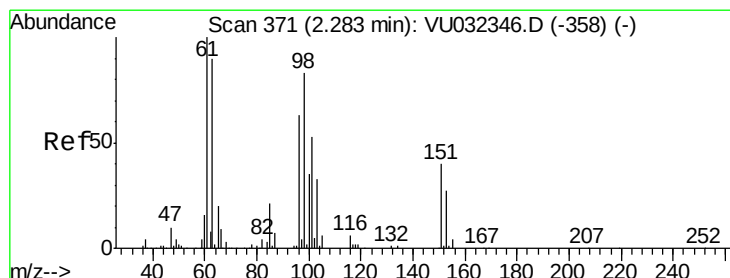
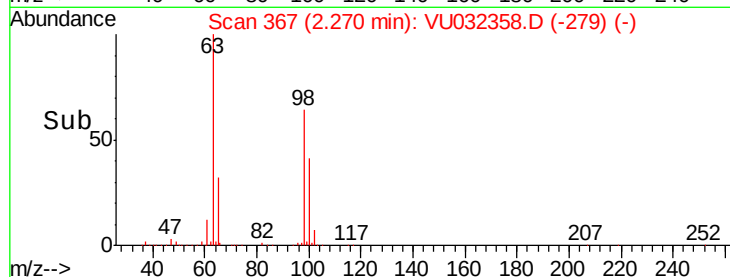
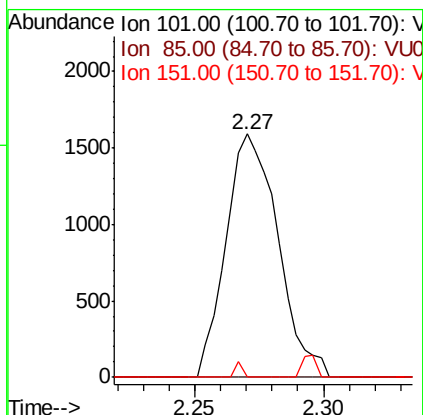
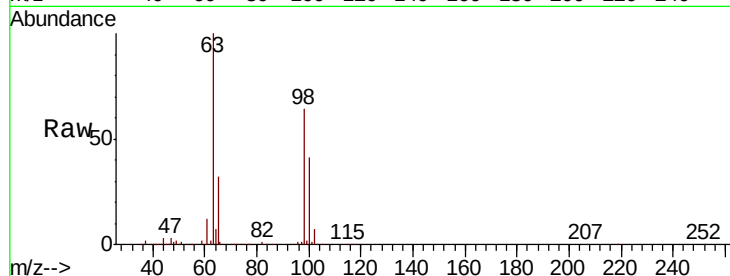
Tgt Ion:101 Resp: 2242

Ion Ratio Lower Upper

101 100

85 0.0 34.2 51.4#

151 0.9 64.4 96.6#



#12

1,1-Dichloroethene

Concen: 0.111 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

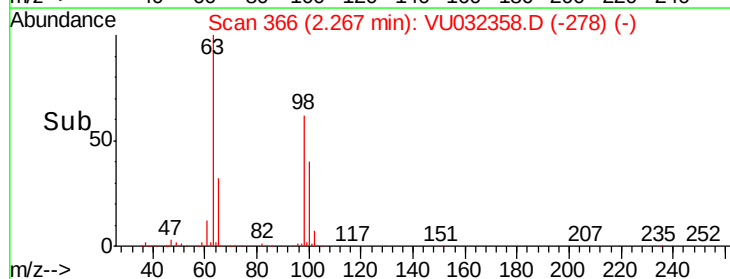
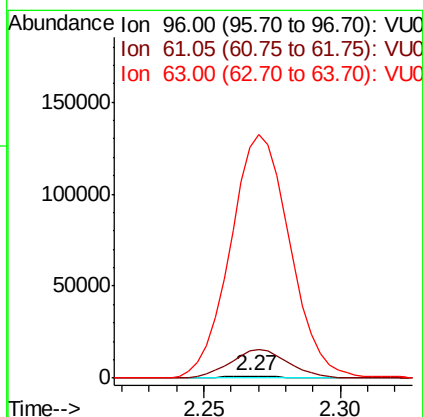
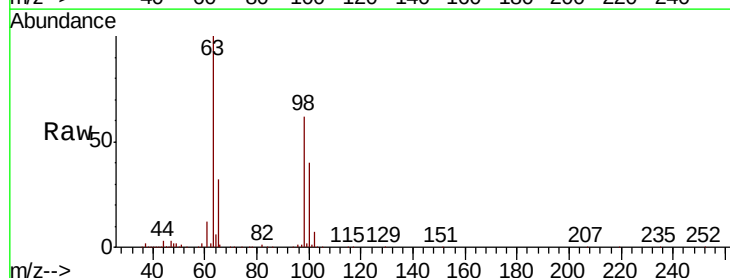
Tgt Ion: 96 Resp: 1667

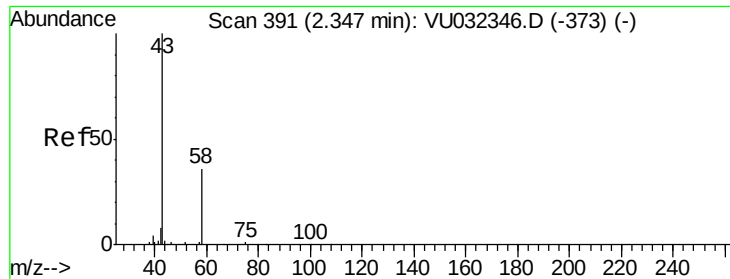
Ion Ratio Lower Upper

96 100

61 1412.4 113.8 211.3#

63 11853.9 108.8 202.2#

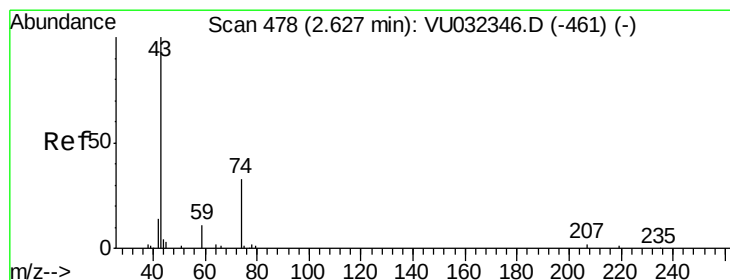
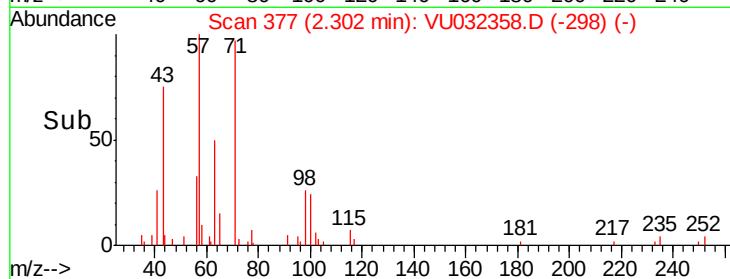
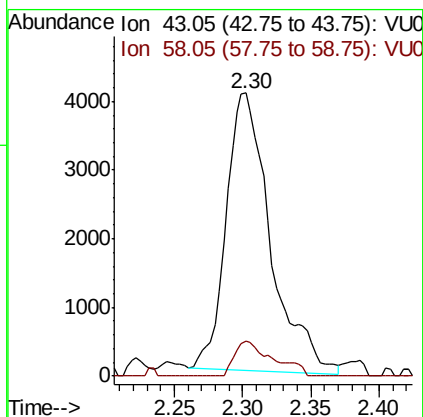
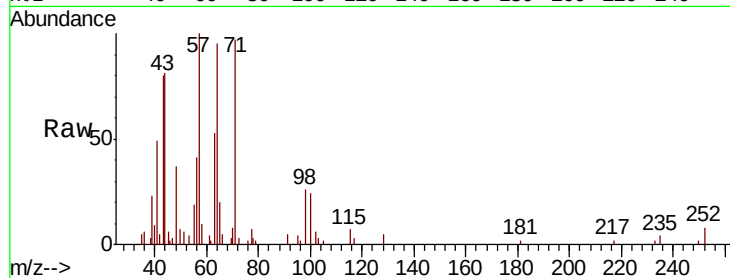




#13
Acetone
Concen: 4.431 ug/L
RT: 2.30 min Scan# 377
Delta R.T. -0.04 min
Lab File: VU032358.D
Acq: 29 May 2019 14:05

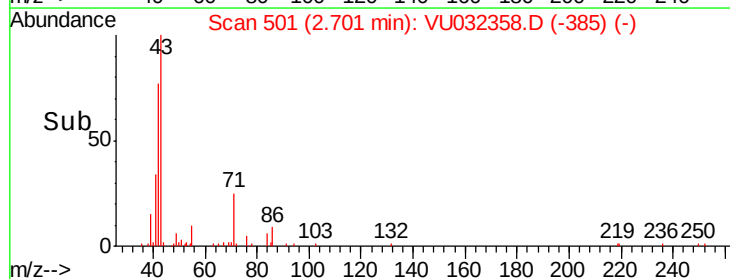
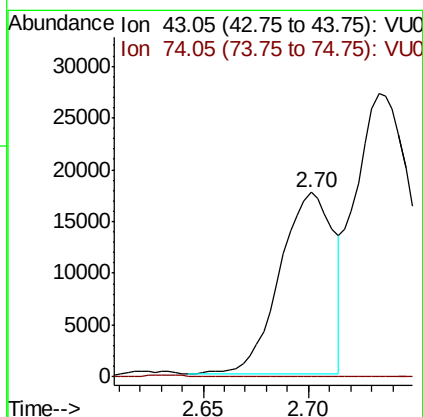
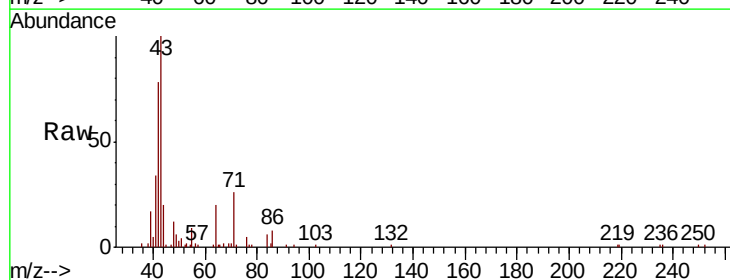
Instrument :
MSVOA_U
ClientSampleId :
C0C55

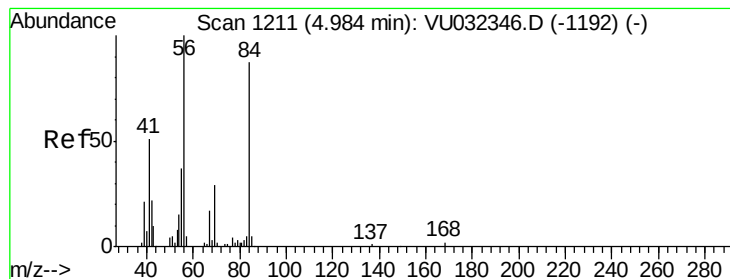
Tgt Ion: 43 Resp: 9137
Ion Ratio Lower Upper
43 100
58 9.9 0.0 72.6



#15
Methyl Acetate
Concen: 5.153 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.07 min
Lab File: VU032358.D
Acq: 29 May 2019 14:05

Tgt Ion: 43 Resp: 31175
Ion Ratio Lower Upper
43 100
74 0.5 27.3 40.9#





#30

Cyclohexane

Concen: 1.440 ug/L

RT: 4.98 min Scan# 1211

Delta R.T. 0.00 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Instrument :

MSVOA_U

ClientSampleId :

C0C55

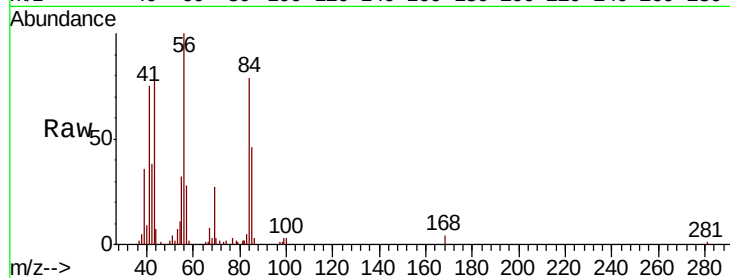
Tgt Ion: 56 Resp: 27700

Ion Ratio Lower Upper

56 100

69 16.5 26.6 39.8#

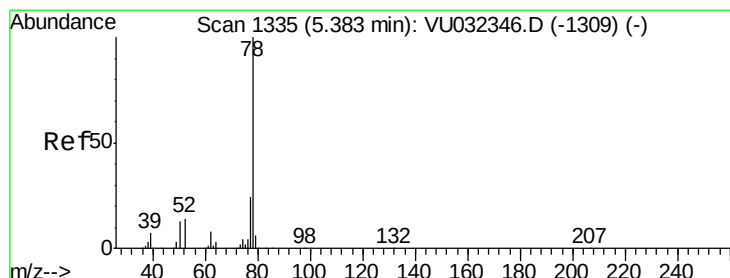
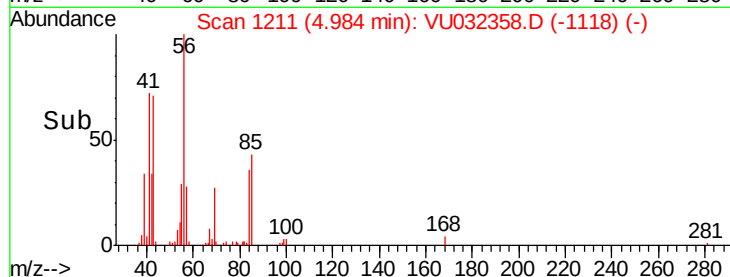
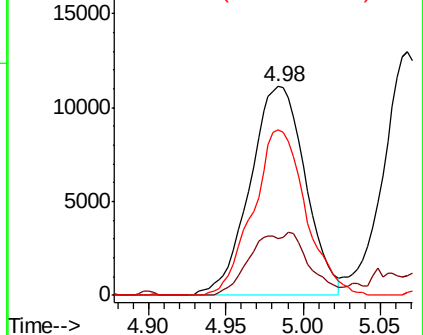
84 75.5 75.0 112.6



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



#33

Benzene

Concen: 5.096 ug/L

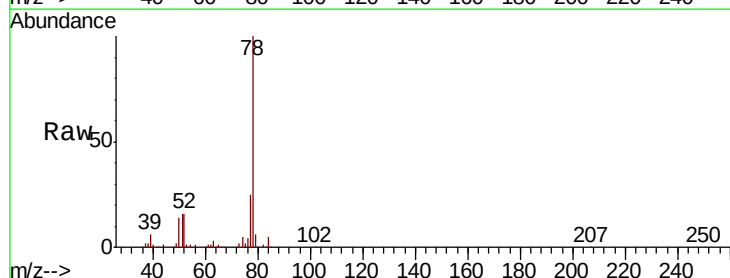
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

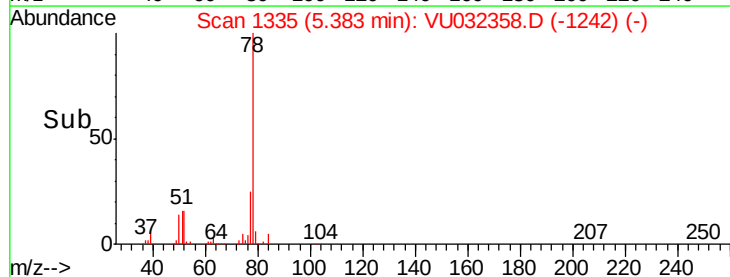
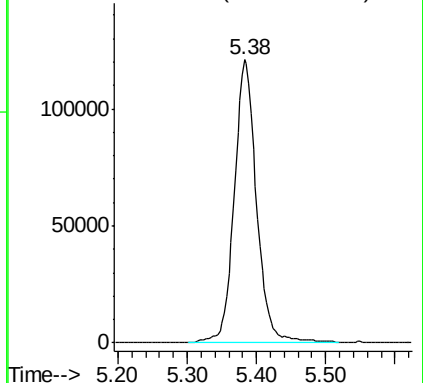
Lab File: VU032358.D

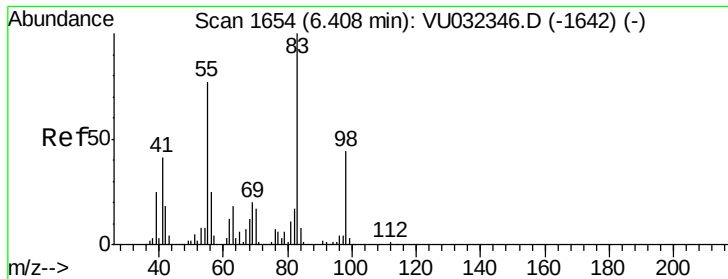
Acq: 29 May 2019 14:05

Tgt Ion: 78 Resp: 273275



Abundance Ion 78.10 (77.80 to 78.80): VU0





#35

Methylcyclohexane

Concen: 0.827 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Instrument :

MSVOA_U

ClientSampled :

C0C55

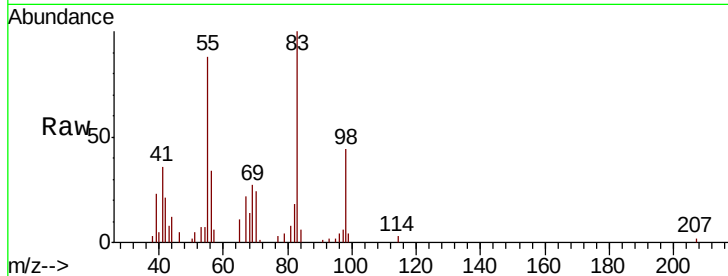
Tgt Ion: 83 Resp: 17530

Ion Ratio Lower Upper

83 100

55 98.3 59.7 89.5#

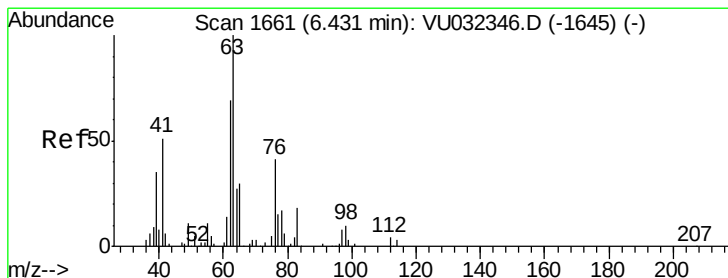
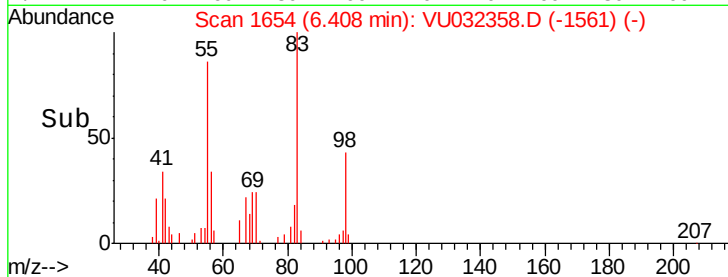
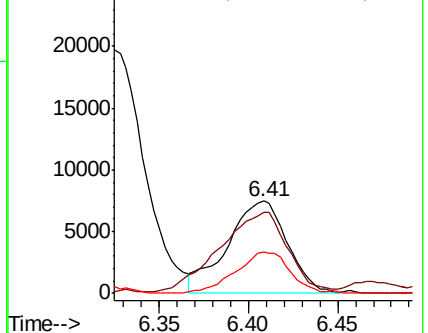
98 40.8 37.5 56.3



Abundance Ion 83.15 (82.85 to 83.85): VU032346.D (-1642) (-)

Ion 55.10 (54.80 to 55.80): VU032346.D (-1642) (-)

Ion 98.15 (97.85 to 98.85): VU032346.D (-1642) (-)



#37

1,2-Dichloropropane

Concen: 1.288 ug/L

RT: 6.32 min Scan# 1628

Delta R.T. -0.11 min

Lab File: VU032358.D

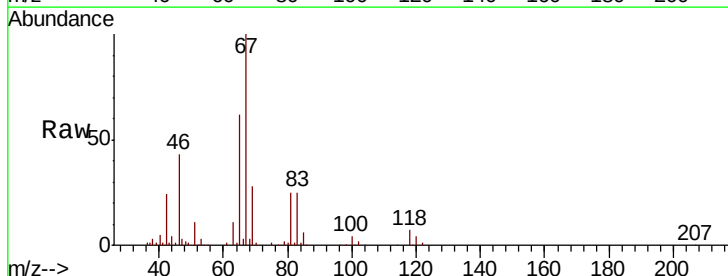
Acq: 29 May 2019 14:05

Tgt Ion: 63 Resp: 16623

Ion Ratio Lower Upper

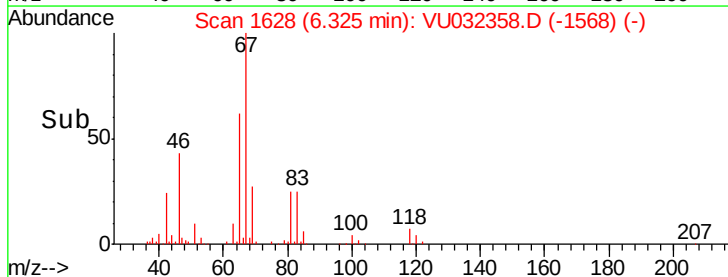
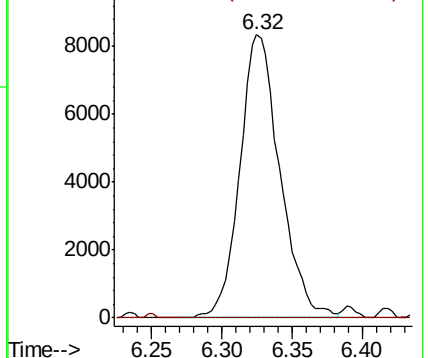
63 100

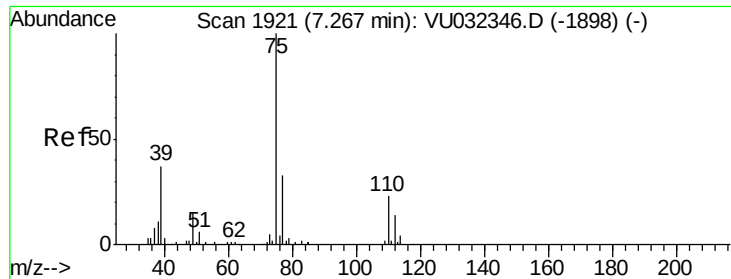
112 0.3 3.8 5.8#



Abundance Ion 63.10 (62.80 to 63.80): VU032346.D (-1645) (-)

Ion 112.10 (111.80 to 112.80): VU032346.D (-1645) (-)

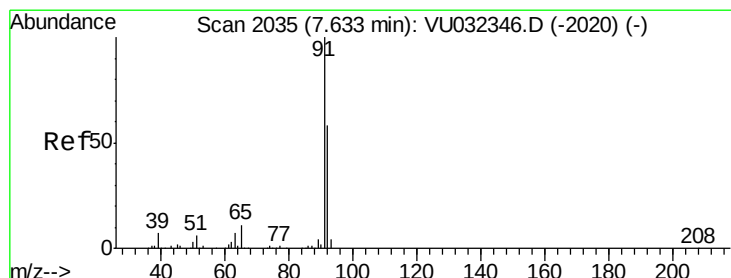
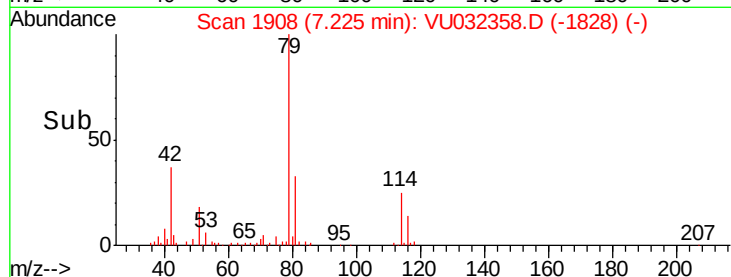
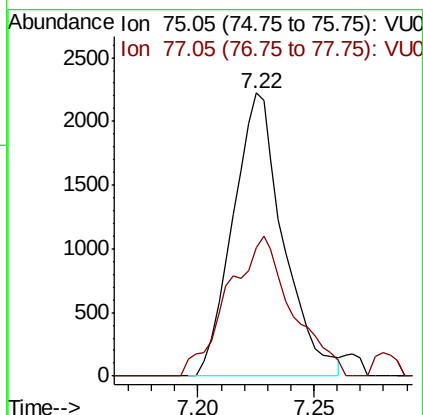
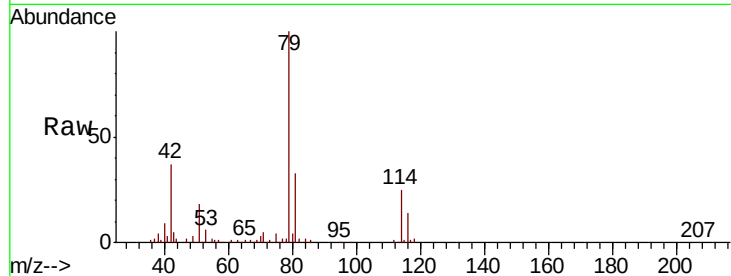




#39
 cis-1,3-Dichloropropene
 Concen: 0.182 ug/L
 RT: 7.22 min Scan# 1908
 Delta R.T. -0.04 min
 Lab File: VU032358.D
 Acq: 29 May 2019 14:05

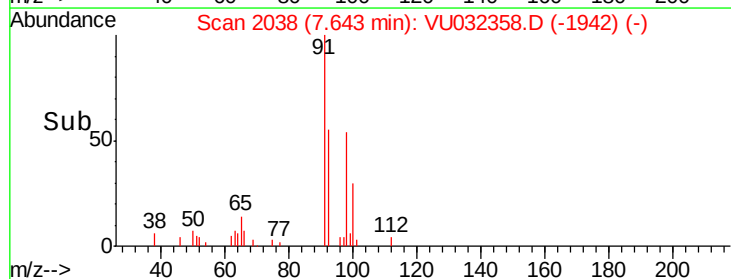
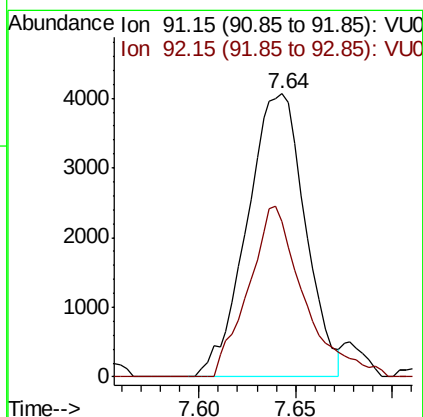
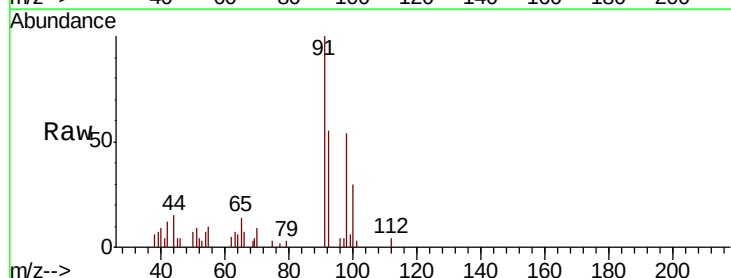
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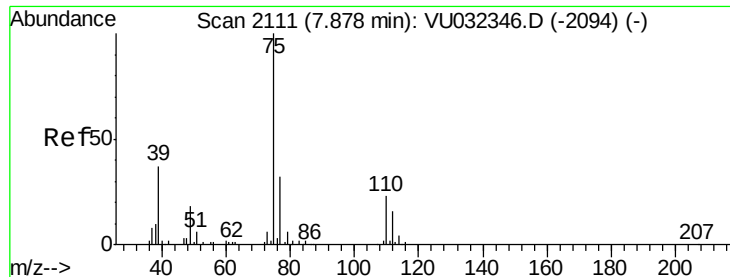
Tgt Ion: 75 Resp: 3346
 Ion Ratio Lower Upper
 75 100
 77 45.2 22.6 42.0#



#42
 Toluene
 Concen: 0.149 ug/L
 RT: 7.64 min Scan# 2038
 Delta R.T. 0.01 min
 Lab File: VU032358.D
 Acq: 29 May 2019 14:05

Tgt Ion: 91 Resp: 8483
 Ion Ratio Lower Upper
 91 100
 92 54.8 38.5 71.5





#44

trans-1,3-Dichloropropene

Concen: 0.136 ug/L

RT: 7.85 min Scan# 2103

Delta R.T. -0.03 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Instrument :

MSVOA_U

ClientSampleId :

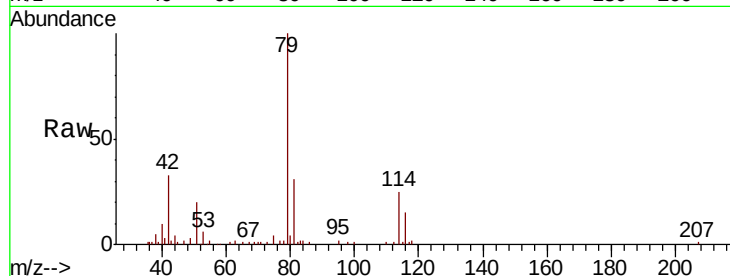
C0C55

Tgt Ion: 75 Resp: 1960

Ion Ratio Lower Upper

75 100

77 49.4 22.5 41.9#



Abundance Ion 75.05 (74.75 to 75.75): VU032346.D (-2094) (-)

Ion 77.05 (76.75 to 77.75): VU032346.D (-2094) (-)

7.85

1500

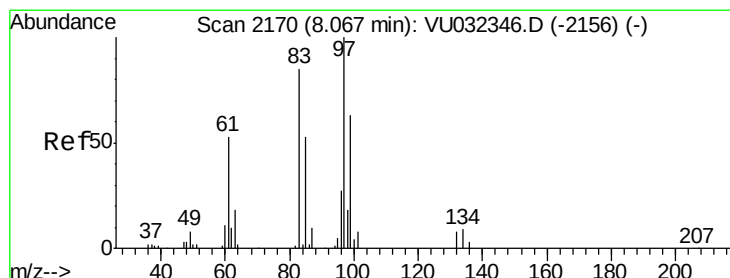
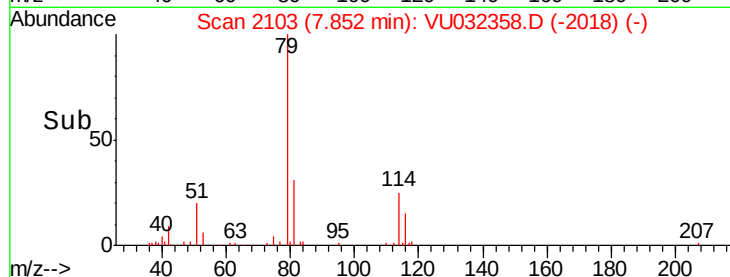
1000

500

0

7.80 7.85 7.90

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.536 ug/L

RT: 8.04 min Scan# 2163

Delta R.T. -0.02 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Tgt Ion: 97 Resp: 5343

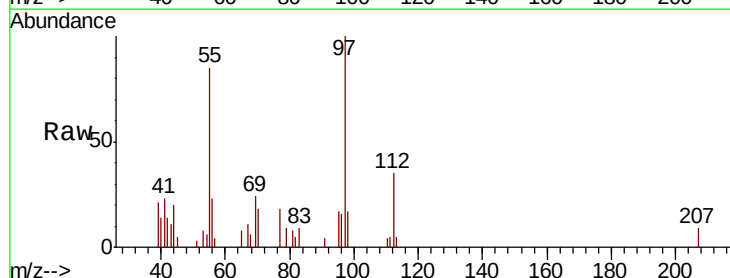
Ion Ratio Lower Upper

97 100

99 0.0 44.2 82.0#

83 8.6 60.5 112.3#

85 0.0 36.3 67.3#



Abundance Ion 96.95 (96.65 to 97.65): VU032346.D (-2156) (-)

Ion 99.05 (98.75 to 99.75): VU032346.D (-2156) (-)

Ion 82.95 (82.65 to 83.65): VU032346.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU032346.D (-2156) (-)

8.04

4000

3000

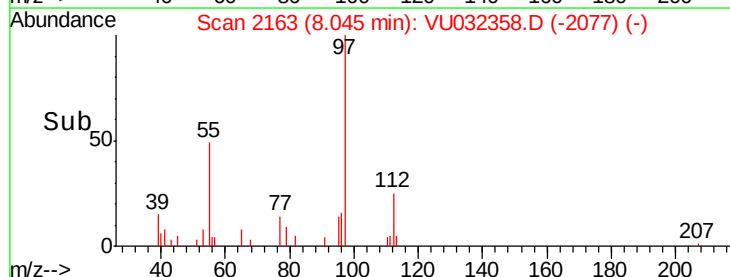
2000

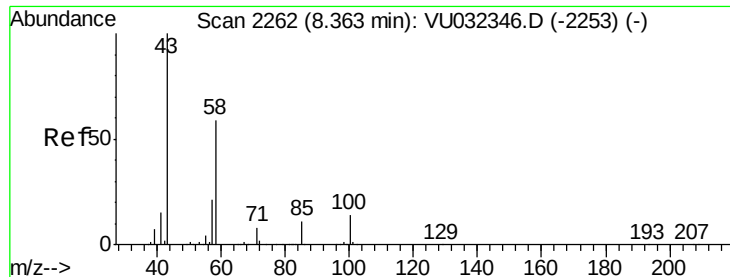
1000

0

8.00 8.05 8.10

Time-->

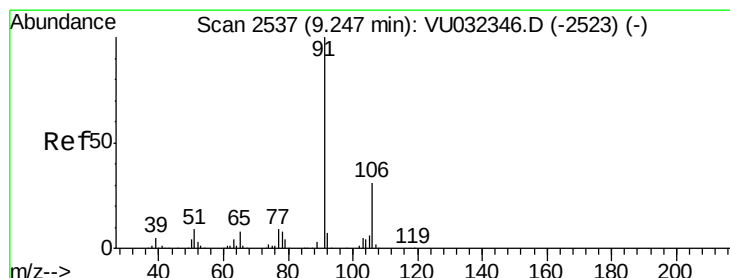
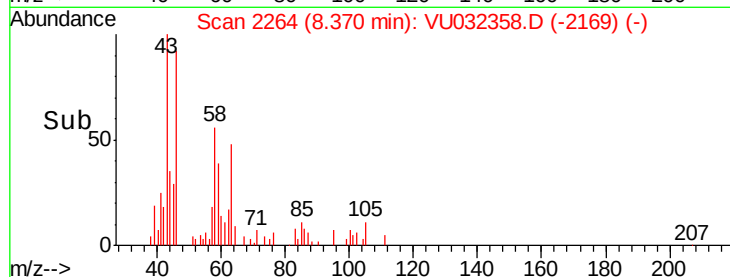
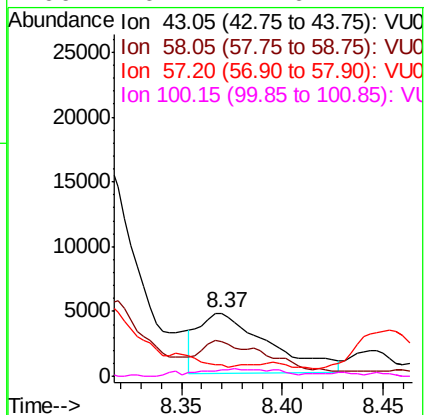
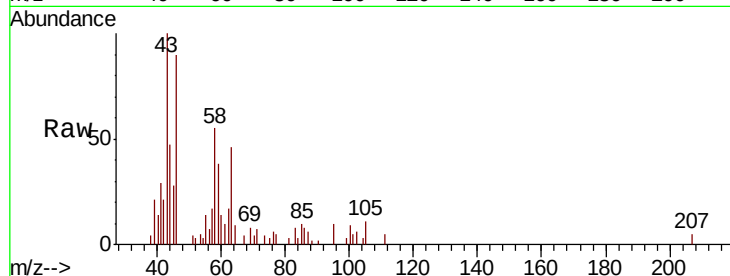




#48
2-Hexanone
Concen: 2.249 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. 0.01 min
Lab File: VU032358.D
Acq: 29 May 2019 14:05

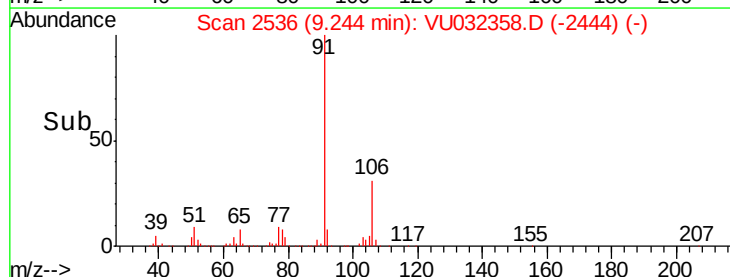
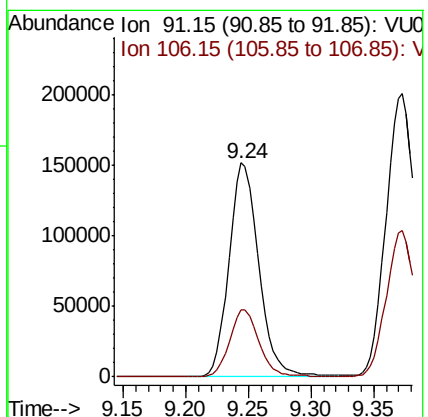
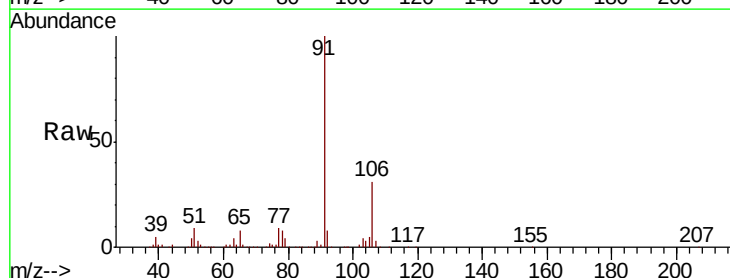
Instrument :
MSVOA_U
ClientSampleId :
C0C55

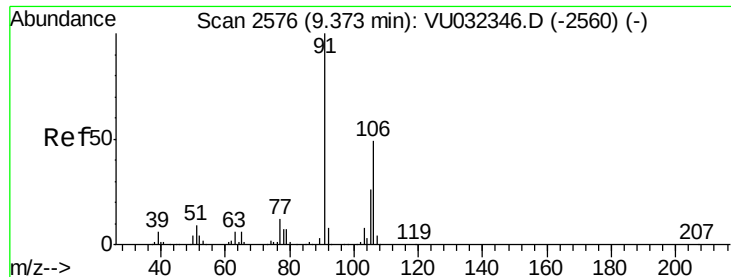
Tgt Ion: 43 Resp: 11256
Ion Ratio Lower Upper
43 100
58 52.5 49.7 74.5
57 0.0 17.1 25.7#
100 6.7 11.6 17.4#



#52
Ethylbenzene
Concen: 4.374 ug/L
RT: 9.24 min Scan# 2536
Delta R.T. -0.00 min
Lab File: VU032358.D
Acq: 29 May 2019 14:05

Tgt Ion: 91 Resp: 250868
Ion Ratio Lower Upper
91 100
106 31.1 20.9 38.9





#53

m,p-Xylene

Concen: 8.260 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Instrument :

MSVOA_U

ClientSampleId :

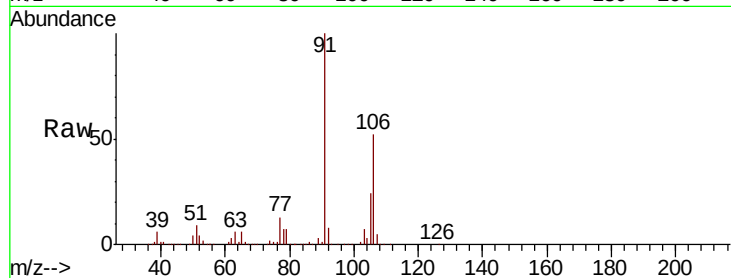
C0C55

Tgt Ion:106 Resp: 176161

Ion Ratio Lower Upper

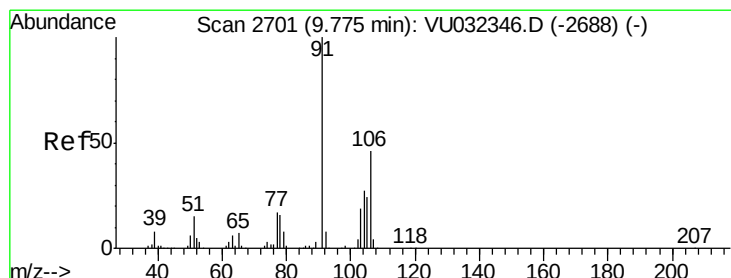
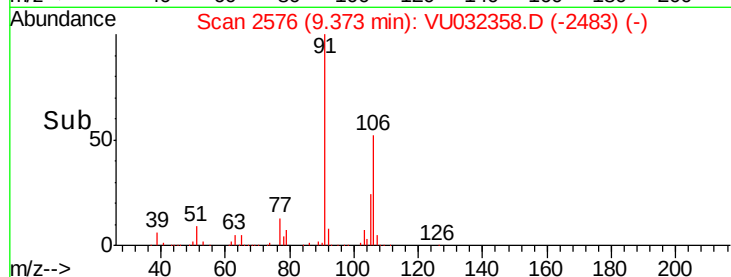
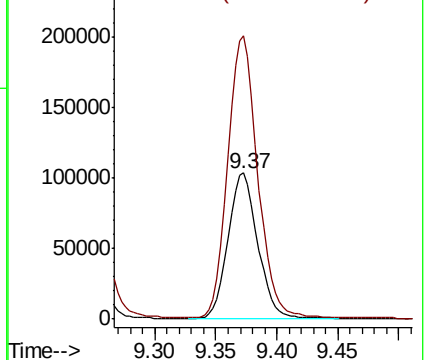
106 100

91 194.0 143.9 267.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.160 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU032358.D

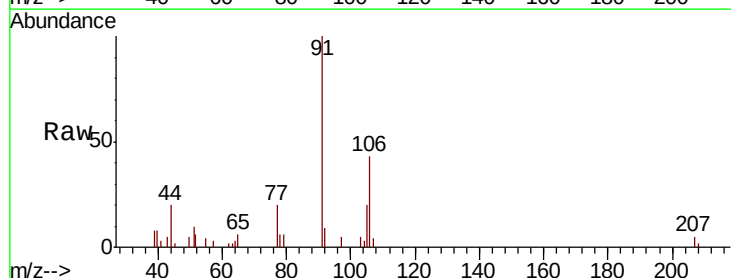
Acq: 29 May 2019 14:05

Tgt Ion:106 Resp: 3409

Ion Ratio Lower Upper

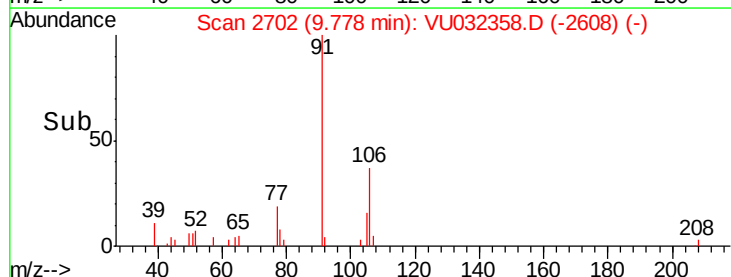
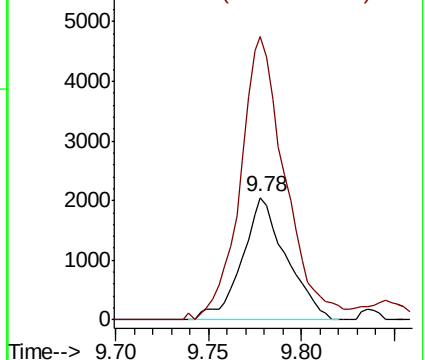
106 100

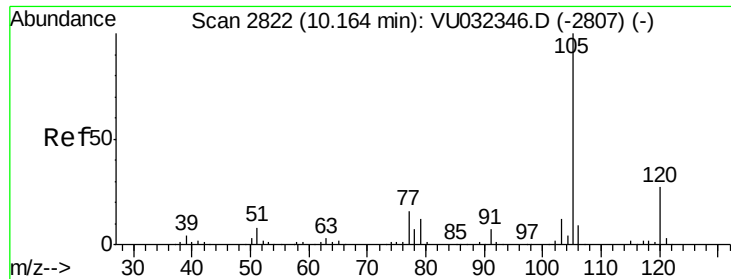
91 231.3 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 1.296 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Instrument :

MSVOA_U

ClientSampled :

C0C55

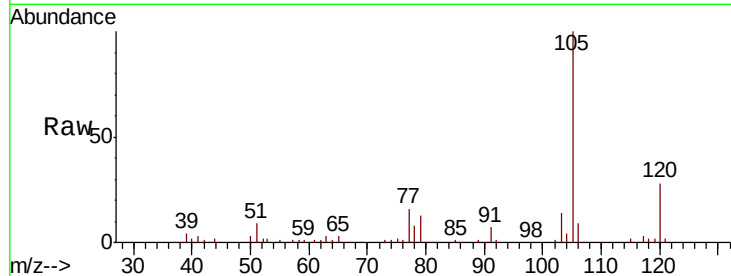
Tgt Ion:105 Resp: 69799

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.6

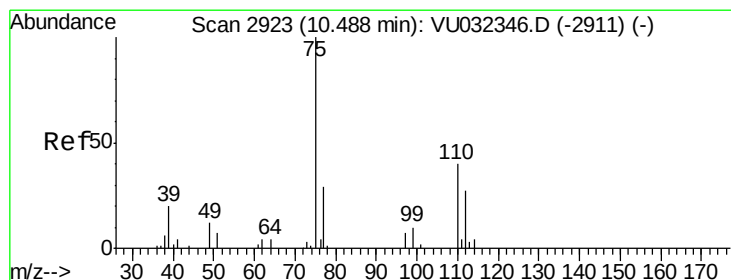
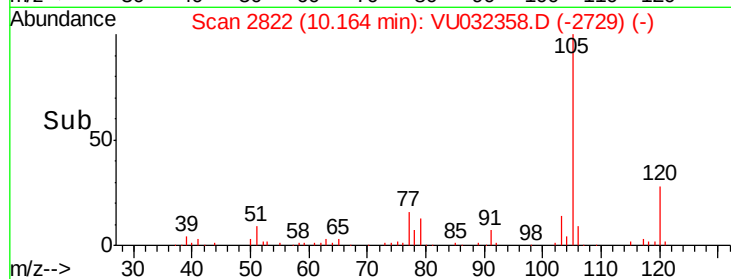
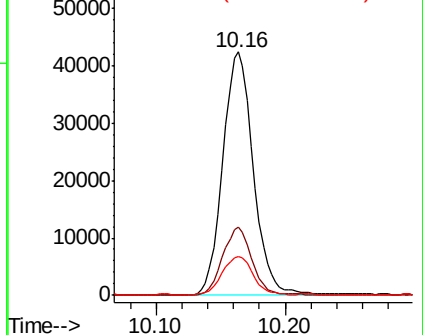
77 16.4 11.9 17.9



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): VU



#59

1,2,3-Trichloropropane

Concen: 2.525 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032358.D

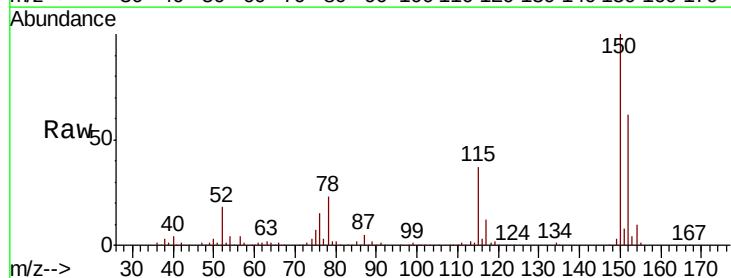
Acq: 29 May 2019 14:05

Tgt Ion: 75 Resp: 21226

Ion Ratio Lower Upper

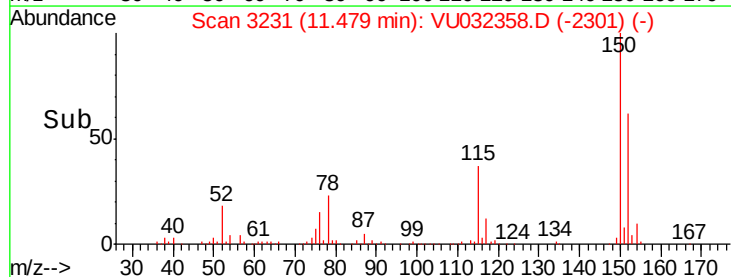
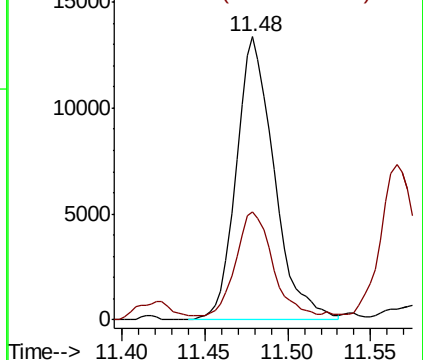
75 100

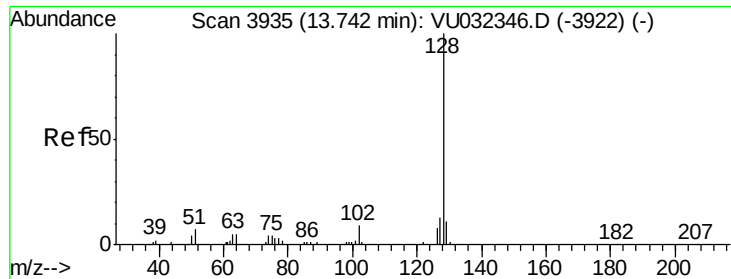
77 36.2 28.2 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#69

Naphthalene

Concen: 3.035 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU032358.D

Acq: 29 May 2019 14:05

Instrument :

MSVOA_U

ClientSampleId :

C0C55

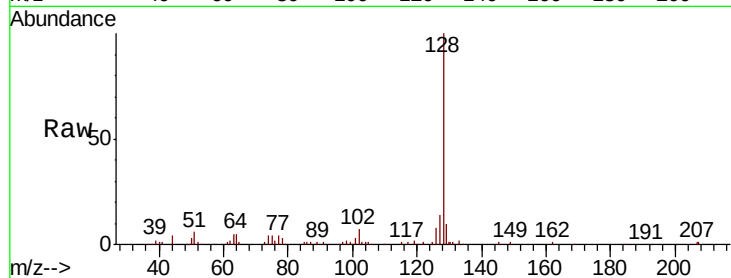
Tgt Ion:128 Resp: 71621

Ion Ratio Lower Upper

128 100

129 9.1 9.2 13.8#

127 14.1 11.1 16.7



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

