

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
 Data File : VU032367.D
 Acq On : 29 May 2019 18:34
 Operator : JC/SP
 Sample : K3045-11 10X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C55

Quant Time: May 30 05:40:37 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	413528	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	399753	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	193106	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	110068	4.74	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.80%
7) Chloroethane-d5	1.68	69	99399	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	2.27	63	160605	3.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.00%
20) 2-Butanone-d5	4.20	46	308841	47.15	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.30%
24) Chloroform-d	4.64	84	216693	3.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	73.00%
26) 1,2-Dichloroethane-d4	5.31	65	113807	3.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	72.40%
32) Benzene-d6	5.33	84	470542	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.00%
36) 1,2-Dichloropropane-d6	6.33	67	142783	3.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.40%
41) Toluene-d8	7.56	98	422392	3.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.60%
43) trans-1,3-Dichloropropene-	7.85	79	50601	3.57	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	71.40%
46) 2-Hexanone-d5	8.31	63	245282	46.02	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.04%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	116183	3.17	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	63.40%#
64) 1,2-Dichlorobenzene-d4	11.85	152	177342	3.33	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	66.60%#

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	2553	0.144 ug/L	97
8) Chloroethane	1.51	64	37326	3.285 ug/L #	51
12) 1,1-Dichloroethene	2.27	96	1786	0.121 ug/L #	1
13) Acetone	2.30	43	15656	7.714 ug/L	45
15) Methyl Acetate	2.70	43	51018	8.567 ug/L #	41
16) Methylene chloride	2.70	84	2354	0.120 ug/L #	44
27) 1,2-Dichloroethane	5.39	62	2251	0.147 ug/L #	73
30) Cyclohexane	4.98	56	48076	2.479 ug/L	83
33) Benzene	5.38	78	507536	9.386 ug/L	100
35) Methylcyclohexane	6.41	83	28876	1.351 ug/L #	83
37) 1,2-Dichloropropane	6.33	63	15055	1.156 ug/L #	89
39) cis-1,3-Dichloropropene	7.23	75	3094	0.167 ug/L #	43
42) Toluene	7.64	91	15593	0.271 ug/L	90
45) 1,1,2-Trichloroethane	8.04	97	9925	0.987 ug/L #	20
48) 2-Hexanone	8.37	43	10482	2.077 ug/L #	37
52) Ethylbenzene	9.24	91	478246	8.269 ug/L	97
53) m,p-Xylene	9.37	106	342461	15.923 ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 30 05:34:28 2019
Response via : Initial Calibration

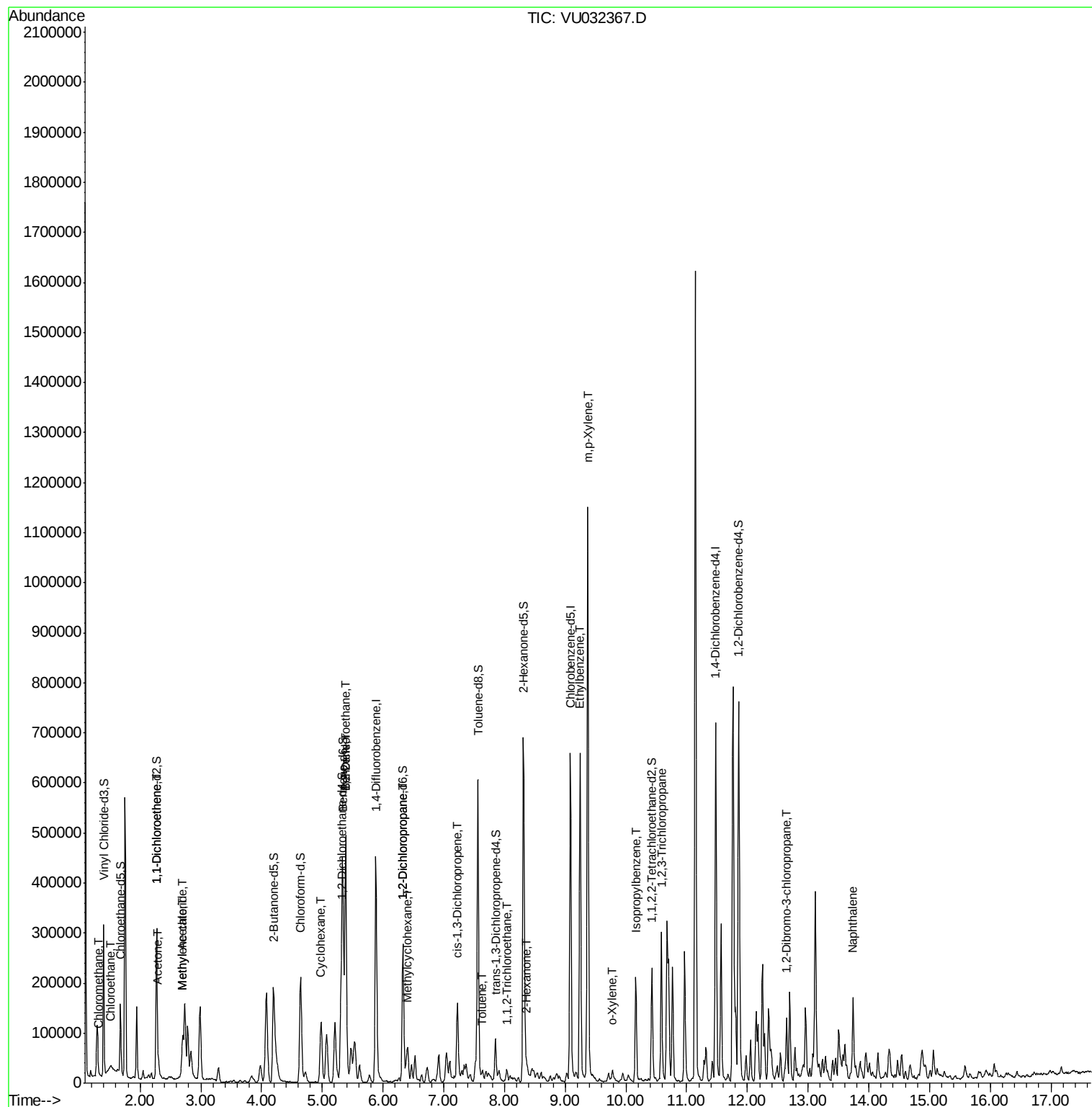
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.78	106	6483	0.302	ug/L	87
56) Isopropylbenzene	10.16	105	138163	2.543	ug/L	98
59) 1,2,3-Trichloropropane	10.59	75	1275	0.150	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.64	75	449	0.240	ug/L #	1
69) Naphthalene	13.74	128	138662	5.921	ug/L #	96

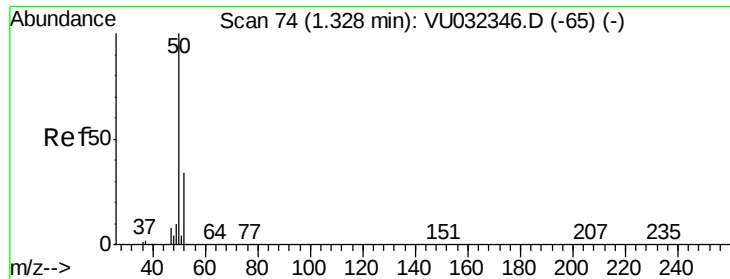
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.144 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032367.D

Acq: 29 May 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

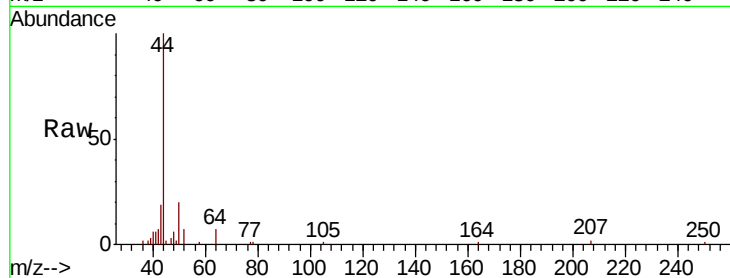
C0C55

Tgt Ion: 50 Resp: 2553

Ion Ratio Lower Upper

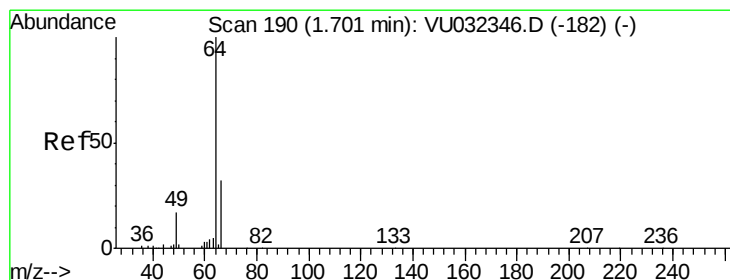
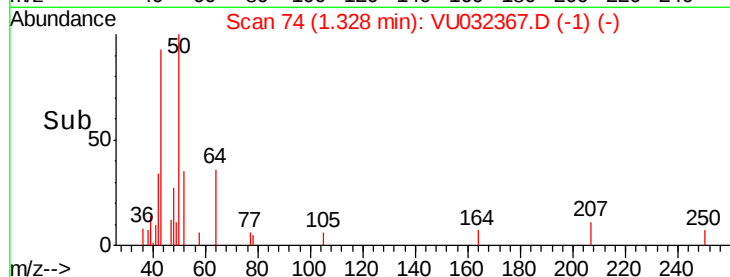
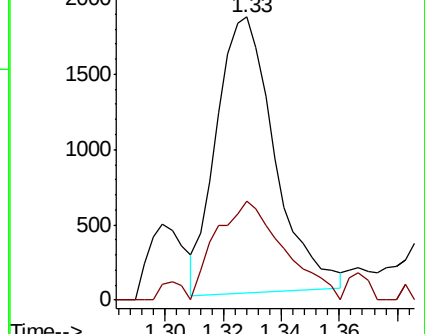
50 100

52 35.1 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#8

Chloroethane

Concen: 3.285 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.19 min

Lab File: VU032367.D

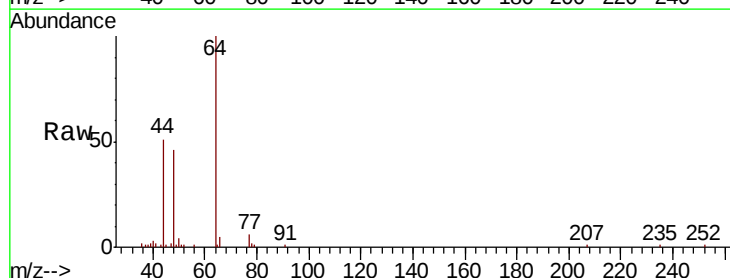
Acq: 29 May 2019 18:34

Tgt Ion: 64 Resp: 37326

Ion Ratio Lower Upper

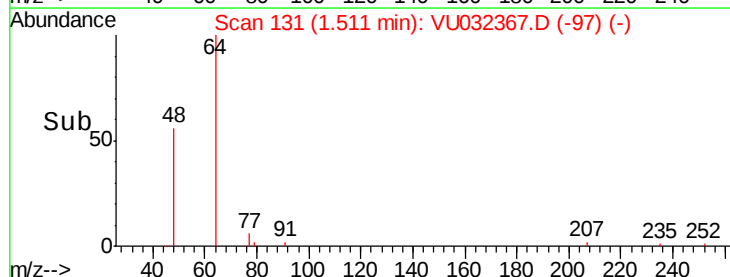
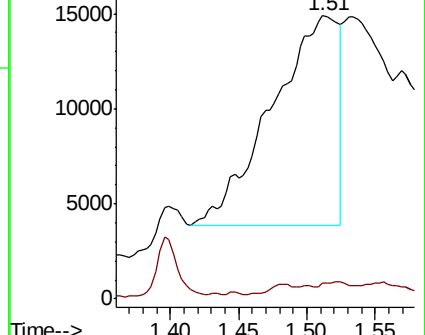
64 100

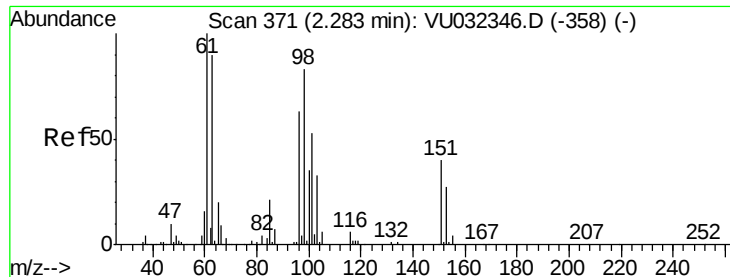
66 5.4 23.1 42.9#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#12

1,1-Dichloroethene

Concen: 0.121 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU032367.D

Acq: 29 May 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

C0C55

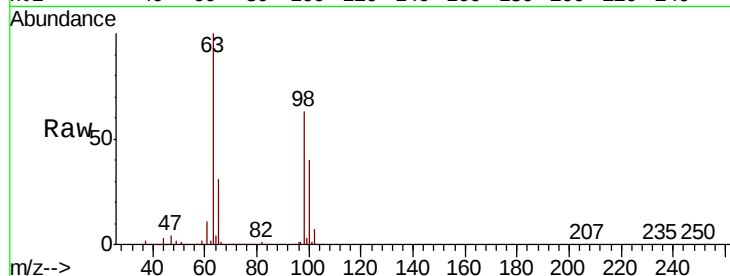
Tgt Ion: 96 Resp: 1786

Ion Ratio Lower Upper

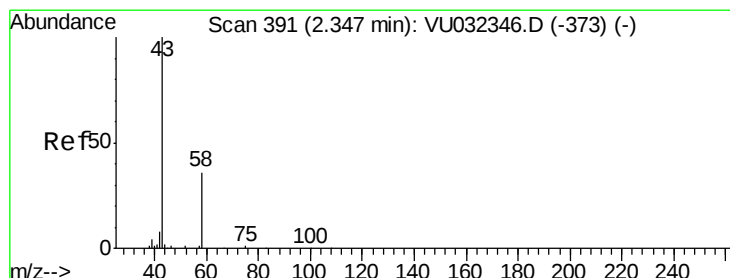
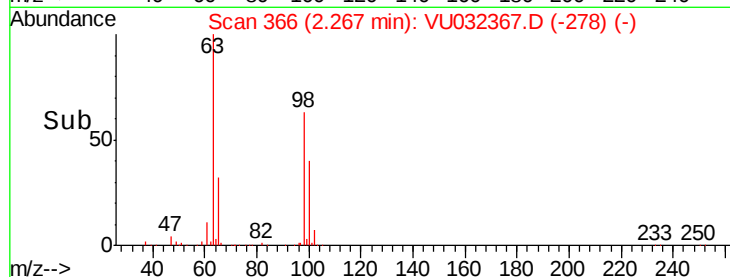
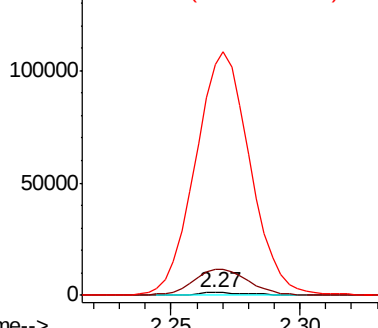
96 100

61 896.9 113.8 211.3#

63 8094.4 108.8 202.2#



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: 7.714 ug/L

RT: 2.30 min Scan# 375

Delta R.T. -0.05 min

Lab File: VU032367.D

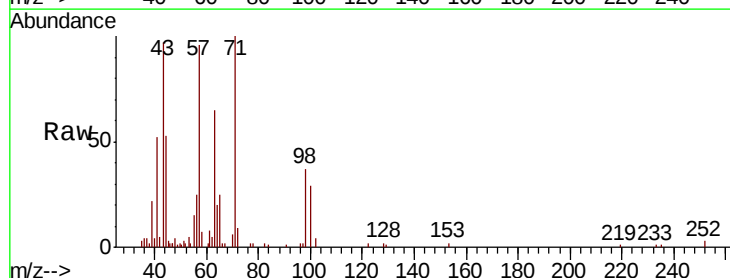
Acq: 29 May 2019 18:34

Tgt Ion: 43 Resp: 15656

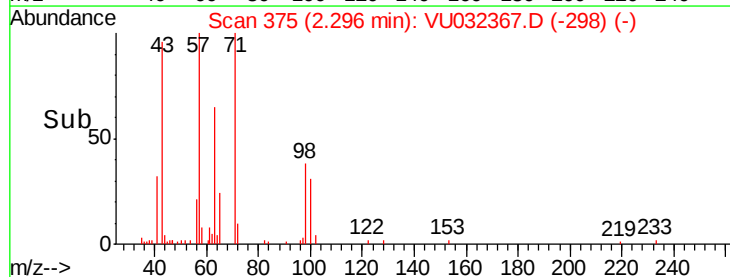
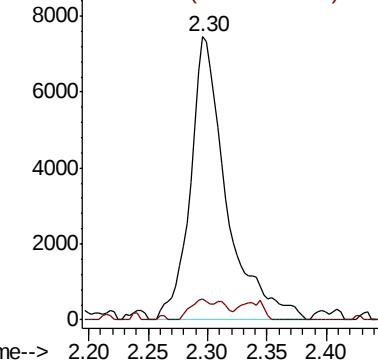
Ion Ratio Lower Upper

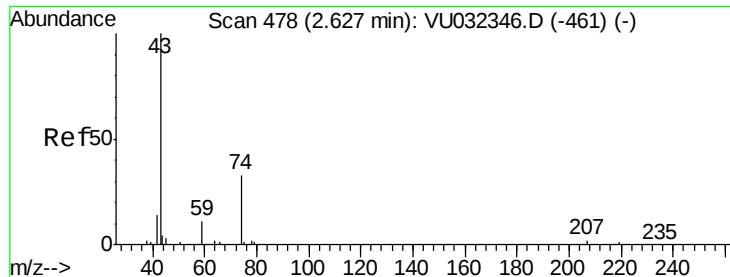
43 100

58 3.9 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0

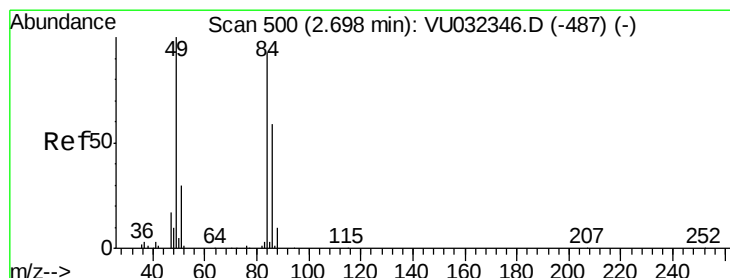
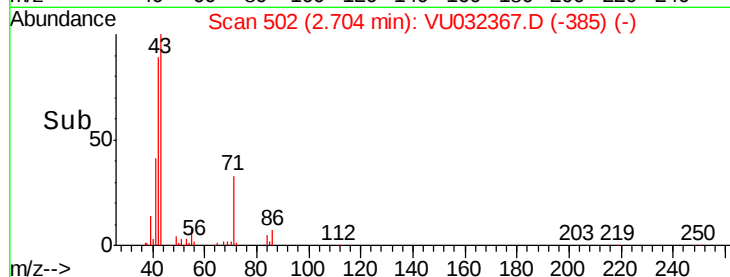
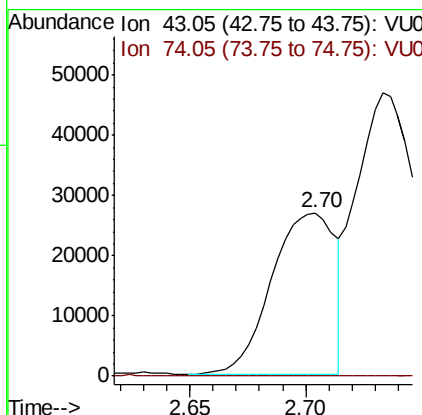
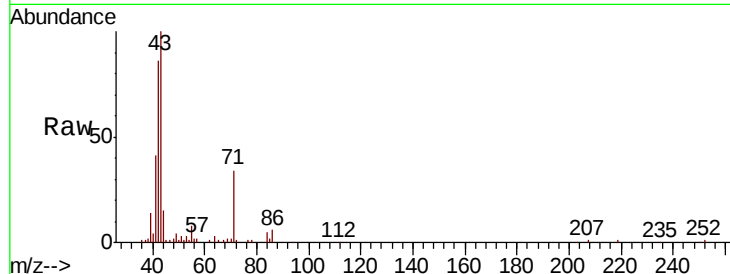




#15
Methyl Acetate
Concen: 8.567 ug/L
RT: 2.70 min Scan# 502
Delta R.T. 0.08 min
Lab File: VU032367.D
Acq: 29 May 2019 18:34

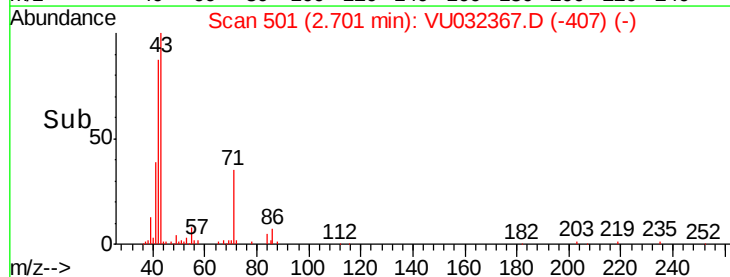
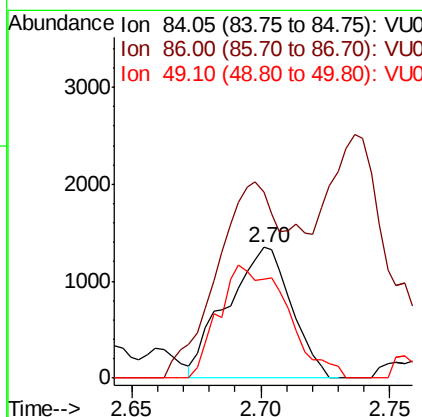
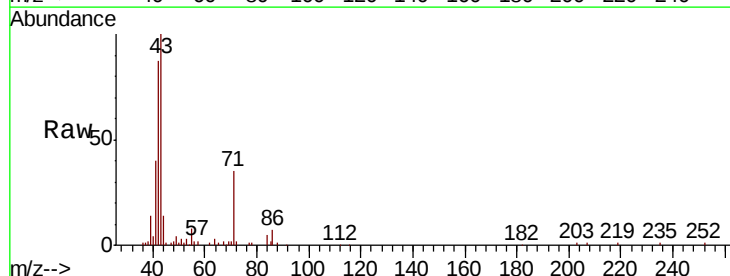
Instrument :
MSVOA_U
ClientSampleId :
C0C55

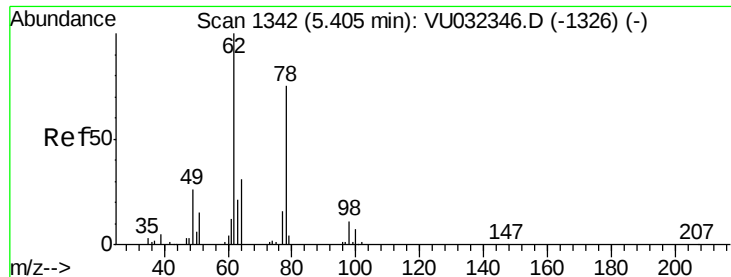
Tgt Ion: 43 Resp: 51018
Ion Ratio Lower Upper
43 100
74 0.2 27.3 40.9#



#16
Methylene chloride
Concen: 0.120 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU032367.D
Acq: 29 May 2019 18:34

Tgt Ion: 84 Resp: 2354
Ion Ratio Lower Upper
84 100
86 142.7 43.6 81.0#
49 75.3 71.1 132.1

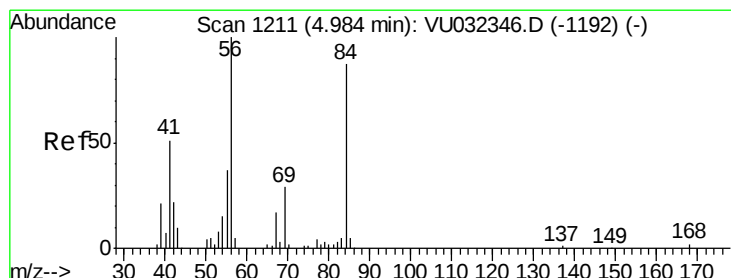
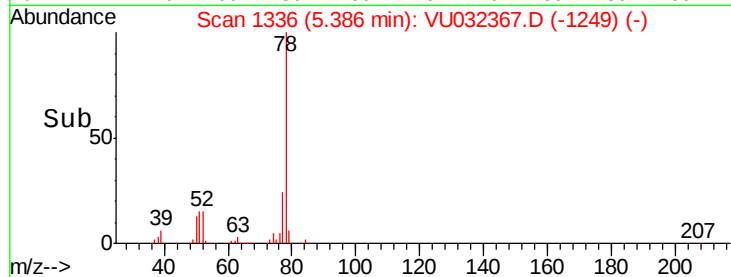
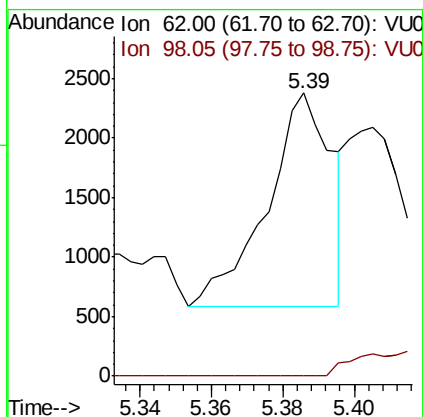
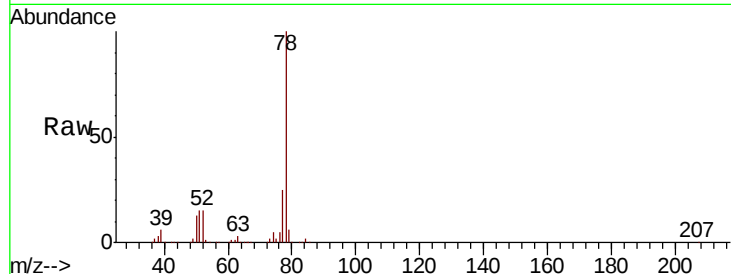




#27
 1,2-Dichloroethane
 Concen: 0.147 ug/L
 RT: 5.39 min Scan# 1336
 Delta R.T. -0.02 min
 Lab File: VU032367.D
 Acq: 29 May 2019 18:34

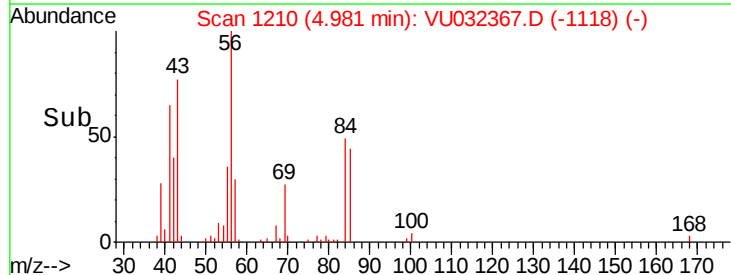
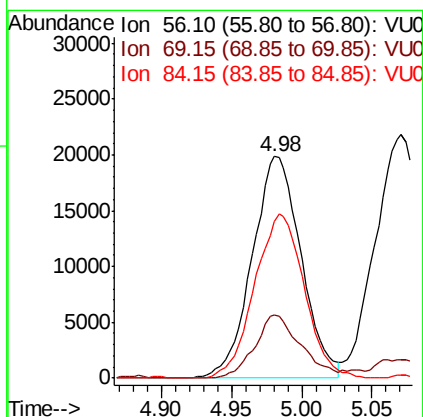
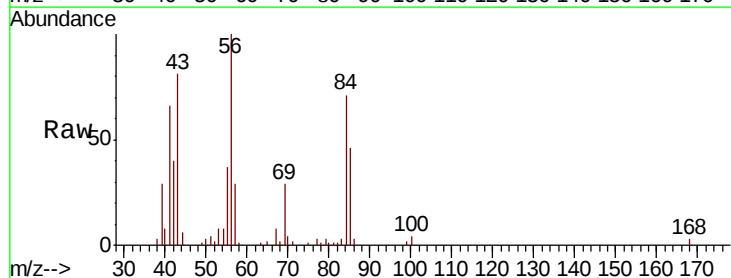
Instrument :
 MSVOA_U
 ClientSampled :
 C0C55

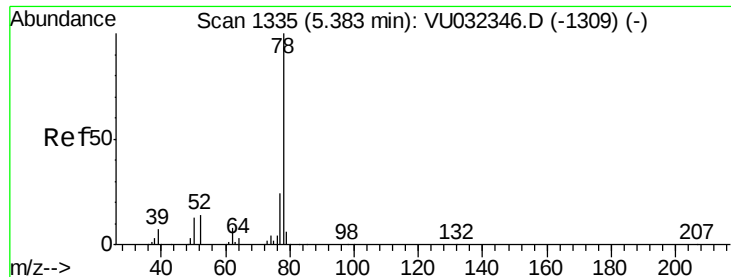
Tgt Ion: 62 Resp: 2251
 Ion Ratio Lower Upper
 62 100
 98 0.0 8.2 12.2#



#30
 Cyclohexane
 Concen: 2.479 ug/L
 RT: 4.98 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VU032367.D
 Acq: 29 May 2019 18:34

Tgt Ion: 56 Resp: 48076
 Ion Ratio Lower Upper
 56 100
 69 26.7 26.6 39.8
 84 75.1 75.0 112.6





#33

Benzene

Concen: 9.386 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU032367.D

Acq: 29 May 2019 18:34

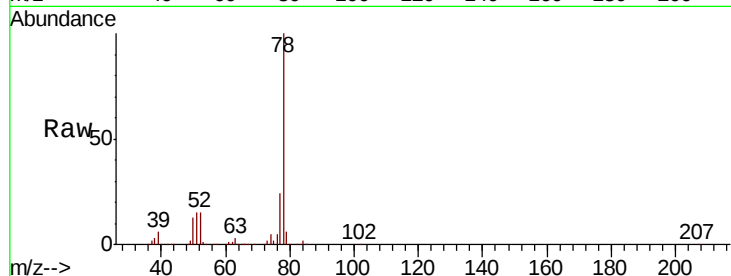
Instrument :

MSVOA_U

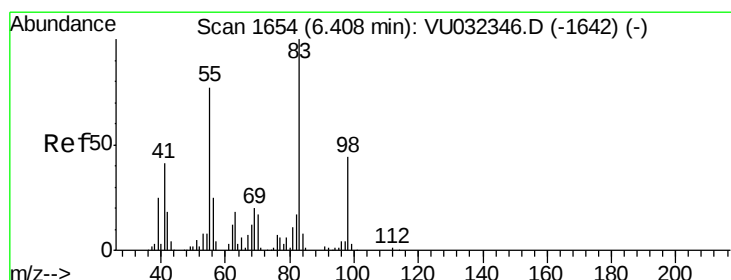
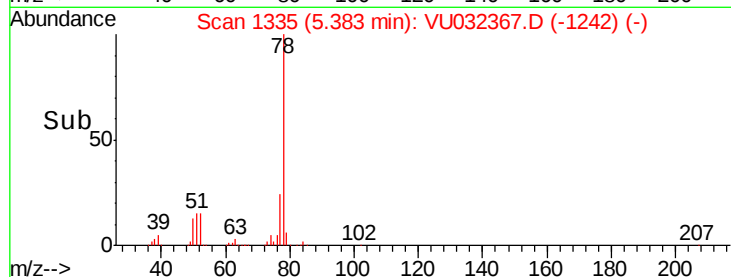
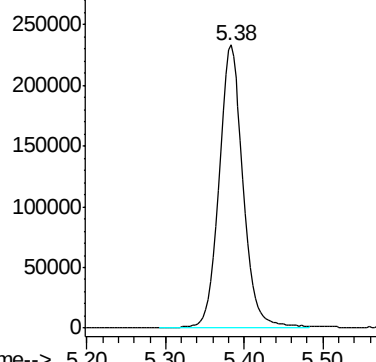
ClientSampleId :

C0C55

Tgt Ion: 78 Resp: 507536



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 1.351 ug/L

RT: 6.41 min Scan# 1654

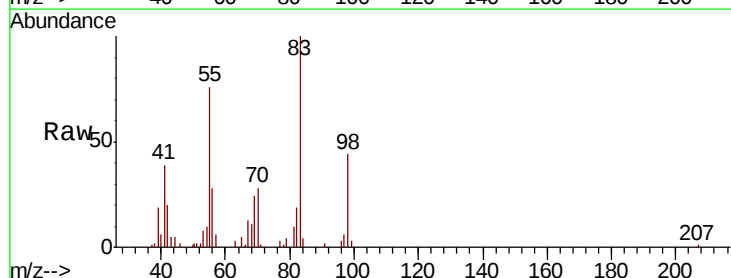
Delta R.T. 0.00 min

Lab File: VU032367.D

Acq: 29 May 2019 18:34

Tgt Ion: 83 Resp: 28876

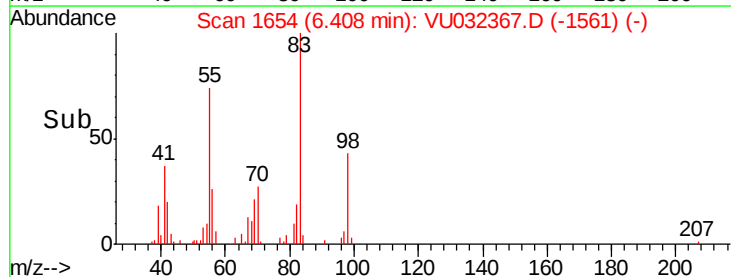
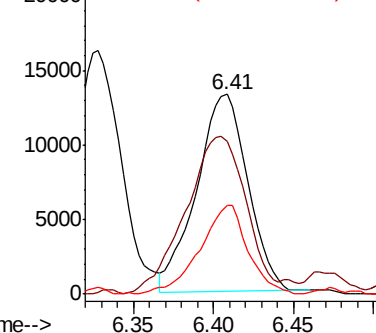
Ion	Ratio	Lower	Upper
83	100		
55	94.8	59.7	89.5#
98	42.2	37.5	56.3

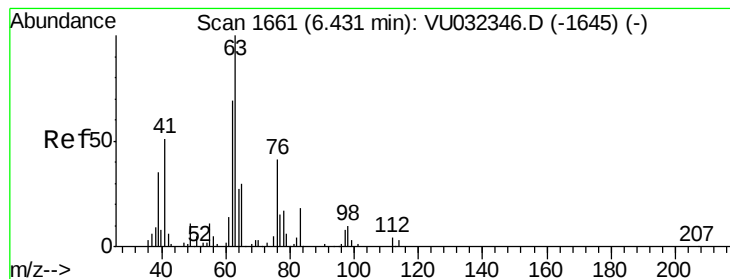


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 1.156 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.10 min

Lab File: VU032367.D

Acq: 29 May 2019 18:34

Instrument :

MSVOA_U

ClientSampled :

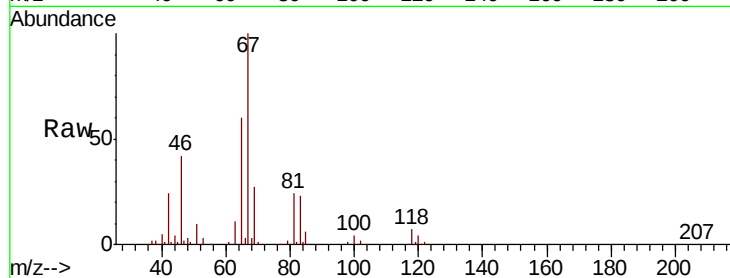
C0C55

Tgt Ion: 63 Resp: 15055

Ion Ratio Lower Upper

63 100

112 1.2 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) (-)

6.33

8000

6000

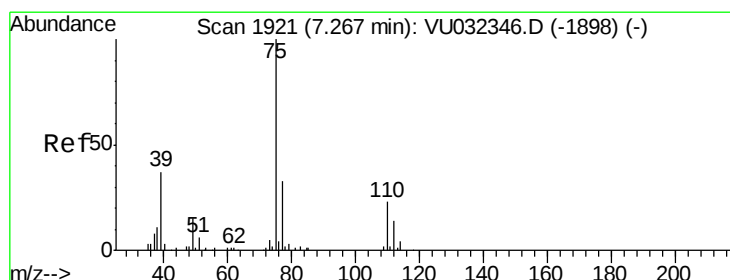
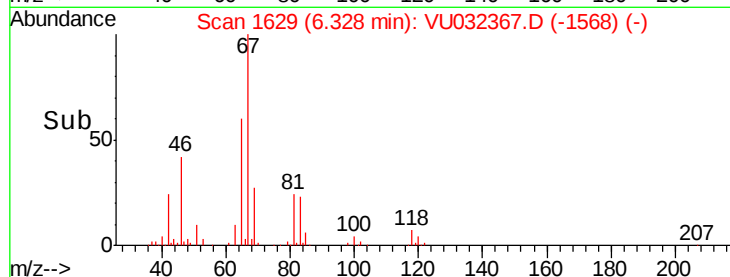
4000

2000

0

6.25 6.30 6.35 6.40

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.167 ug/L

RT: 7.23 min Scan# 1909

Delta R.T. -0.04 min

Lab File: VU032367.D

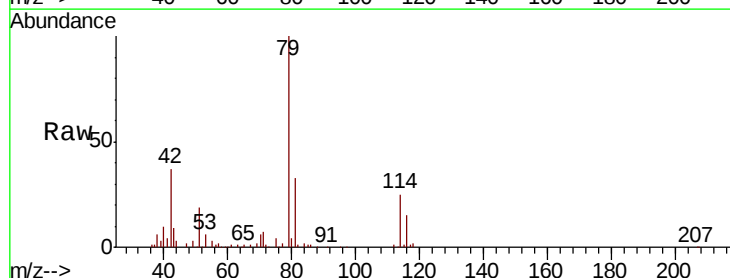
Acq: 29 May 2019 18:34

Tgt Ion: 75 Resp: 3094

Ion Ratio Lower Upper

75 100

77 64.0 22.6 42.0#



Abundance Ion 75.05 (74.75 to 75.75): VU032346.D (-1898) (-)

Ion 77.05 (76.75 to 77.75): VU032346.D (-1898) (-)

7.23

2000

1500

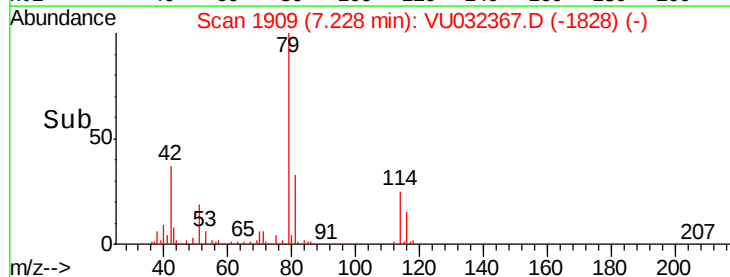
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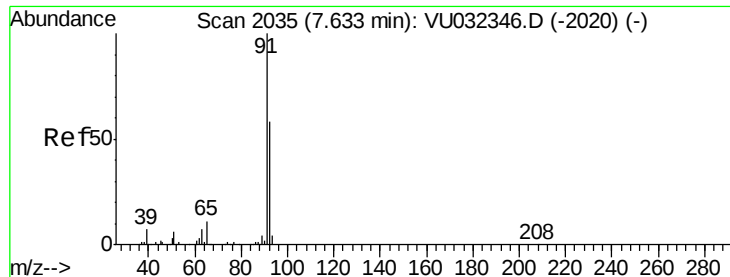
500

0

7.20 7.25

Time-->





#42

Toluene

Concen: 0.271 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU032367.D

Acq: 29 May 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

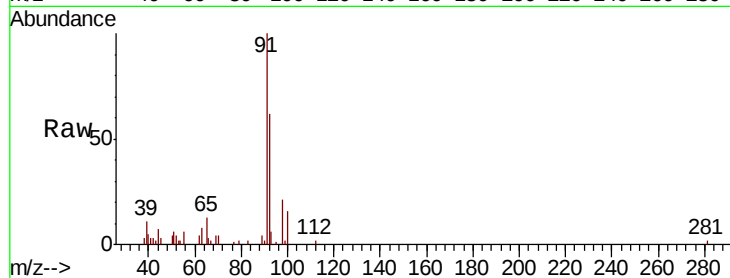
C0C55

Tgt Ion: 91 Resp: 15593

Ion Ratio Lower Upper

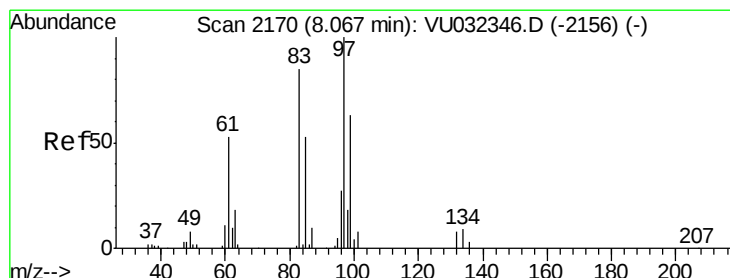
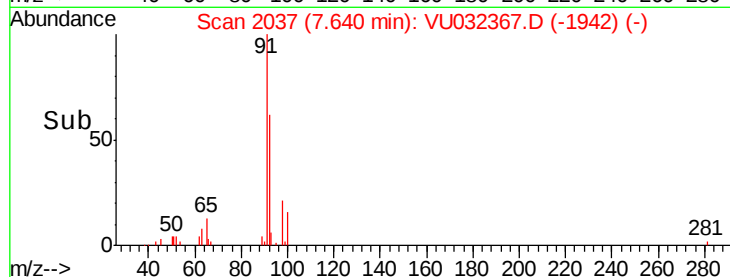
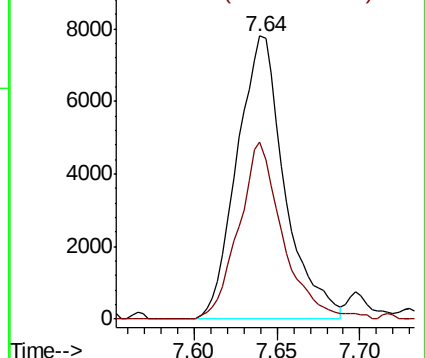
91 100

92 62.4 38.5 71.5



Abundance Ion 91.15 (90.85 to 91.85): VU032346.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VU032346.D (-2020) (-)



#45

1,1,2-Trichloroethane

Concen: 0.987 ug/L

RT: 8.04 min Scan# 2162

Delta R.T. -0.03 min

Lab File: VU032367.D

Acq: 29 May 2019 18:34

Tgt Ion: 97 Resp: 9925

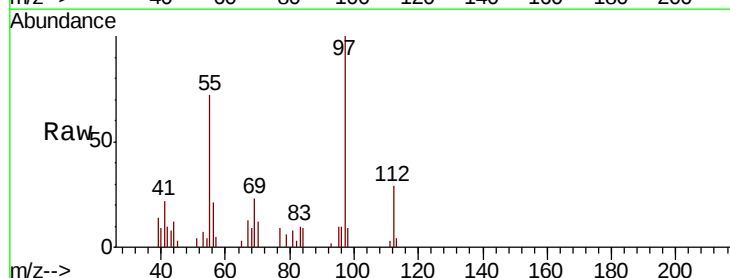
Ion Ratio Lower Upper

97 100

99 0.0 44.2 82.0#

83 9.6 60.5 112.3#

85 0.0 36.3 67.3#

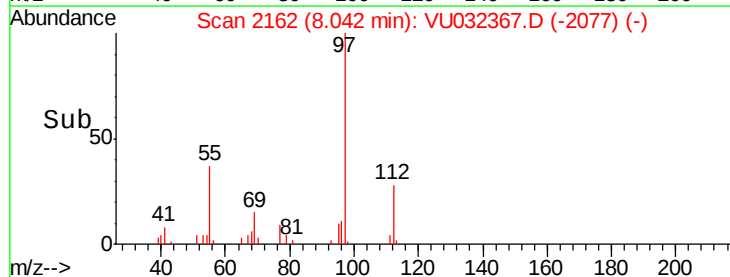
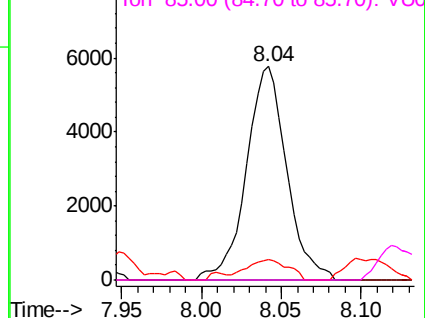


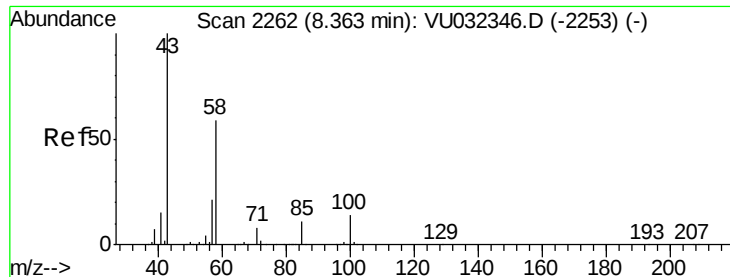
Abundance Ion 96.95 (96.65 to 97.65): VU032346.D (-2156) (-)

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) (-)

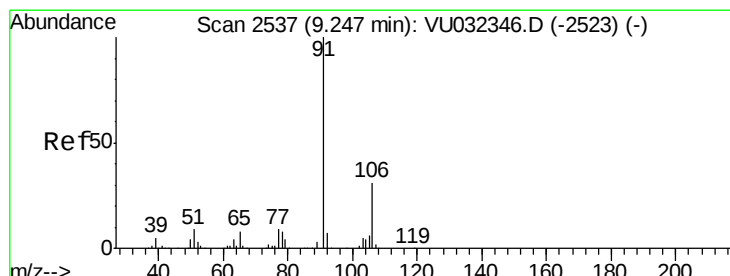
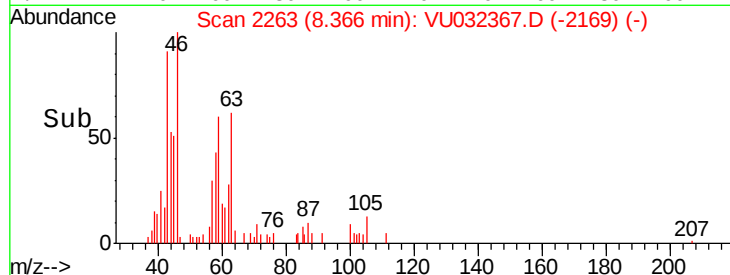
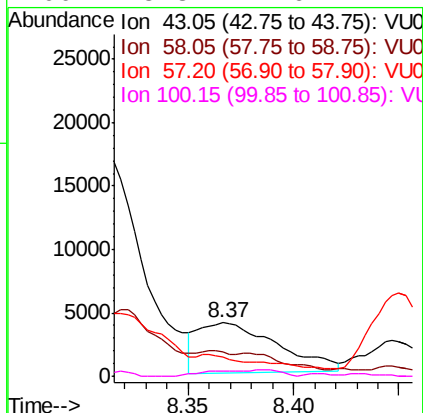
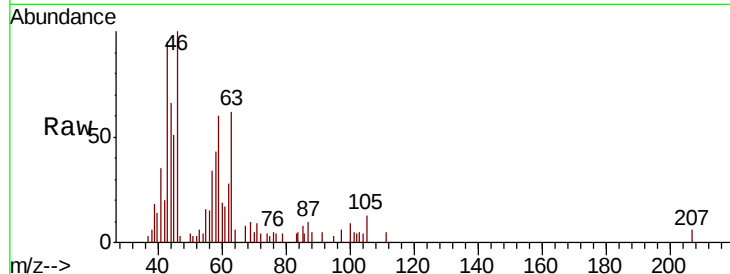




#48
2-Hexanone
Concen: 2.077 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VU032367.D
Acq: 29 May 2019 18:34

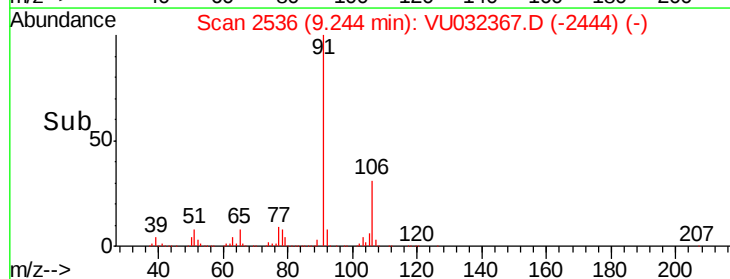
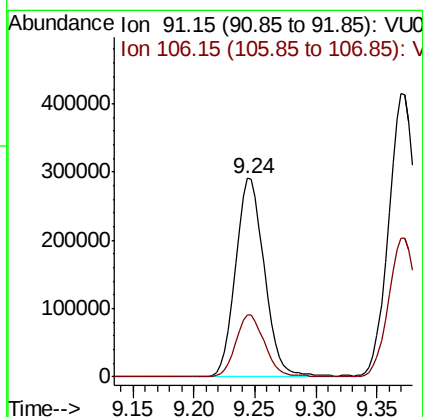
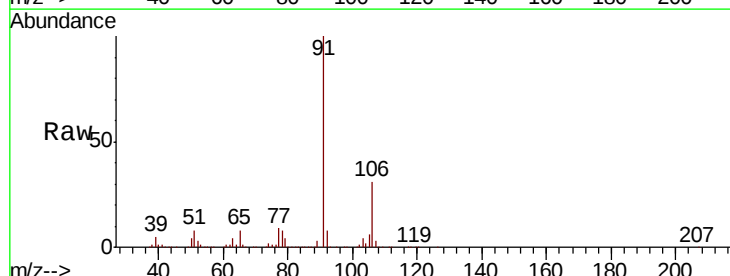
Instrument :
MSVOA_U
ClientSampled :
C0C55

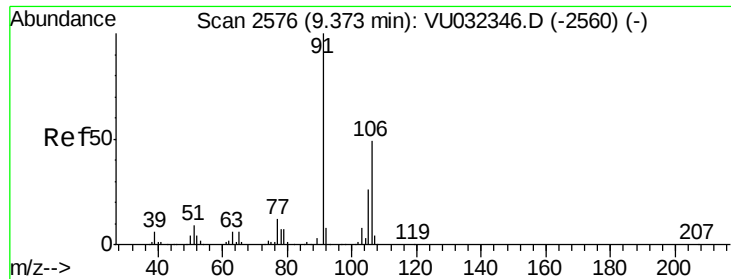
Tgt Ion: 43 Resp: 10482
Ion Ratio Lower Upper
43 100
58 0.0 49.7 74.5#
57 40.0 17.1 25.7#
100 5.3 11.6 17.4#



#52
Ethylbenzene
Concen: 8.269 ug/L
RT: 9.24 min Scan# 2536
Delta R.T. -0.00 min
Lab File: VU032367.D
Acq: 29 May 2019 18:34

Tgt Ion: 91 Resp: 478246
Ion Ratio Lower Upper
91 100
106 31.4 20.9 38.9

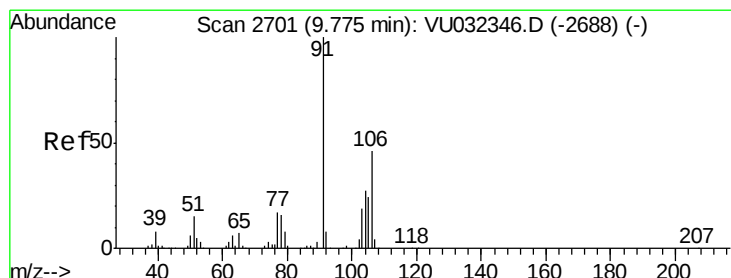
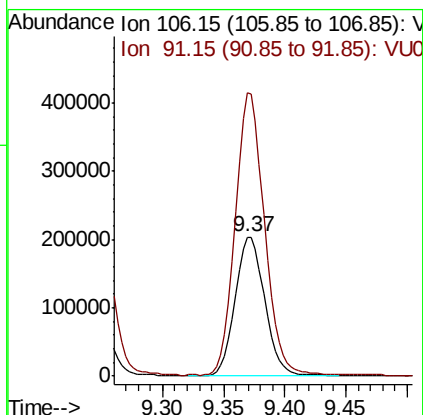
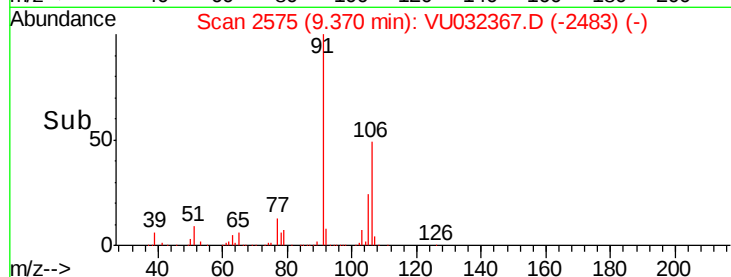
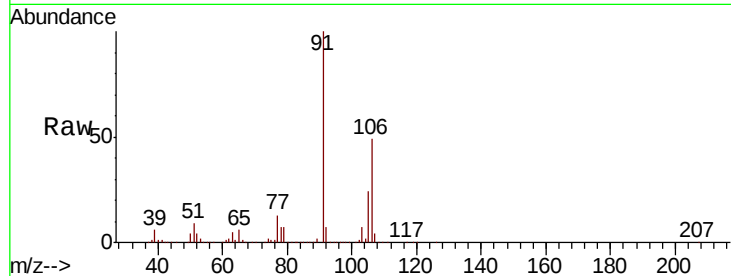




#53
m,p-Xylene
Concen: 15.923 ug/L
RT: 9.37 min Scan# 2575
Delta R.T. -0.00 min
Lab File: VU032367.D
Acq: 29 May 2019 18:34

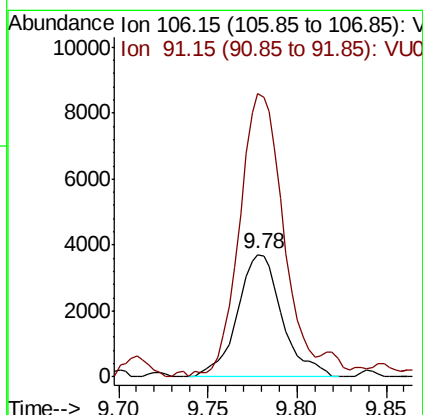
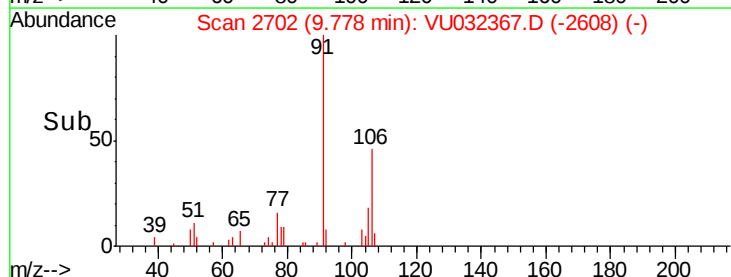
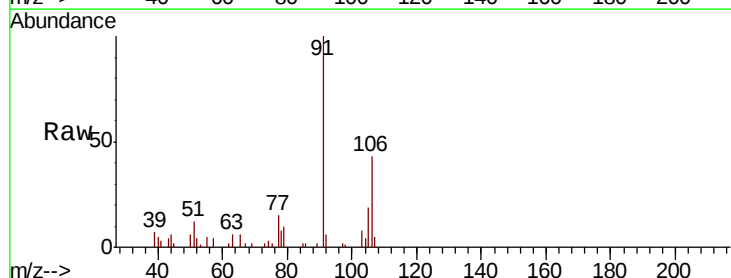
Instrument :
MSVOA_U
ClientSampleId :
C0C55

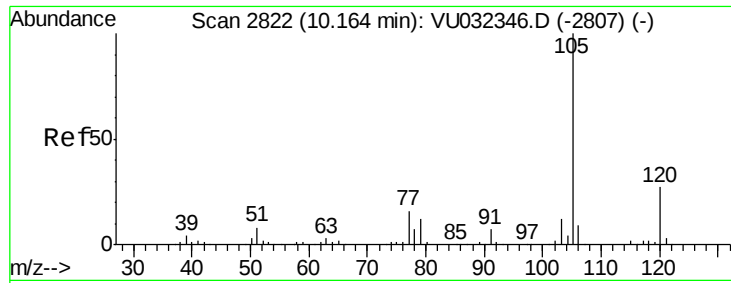
Tgt Ion:106 Resp: 342461
Ion Ratio Lower Upper
106 100
91 203.9 143.9 267.2



#54
o-Xylene
Concen: 0.302 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU032367.D
Acq: 29 May 2019 18:34

Tgt Ion:106 Resp: 6483
Ion Ratio Lower Upper
106 100
91 231.3 147.8 274.4





#56

Isopropylbenzene

Concen: 2.543 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032367.D

Acq: 29 May 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

C0C55

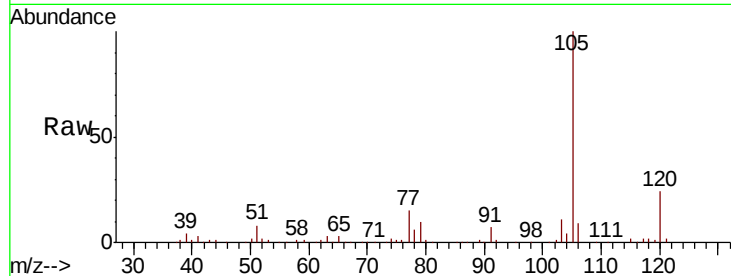
Tgt Ion: 105 Resp: 138163

Ion Ratio Lower Upper

105 100

120 24.9 21.0 31.6

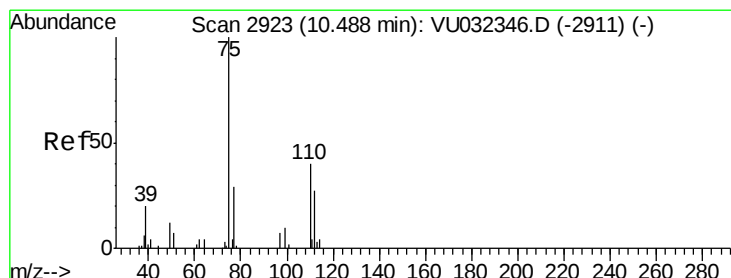
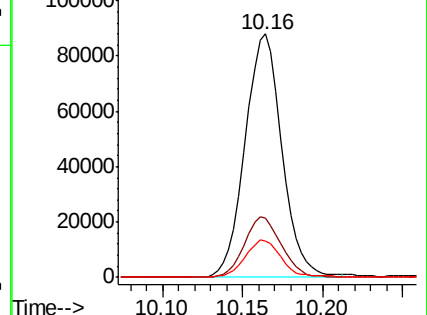
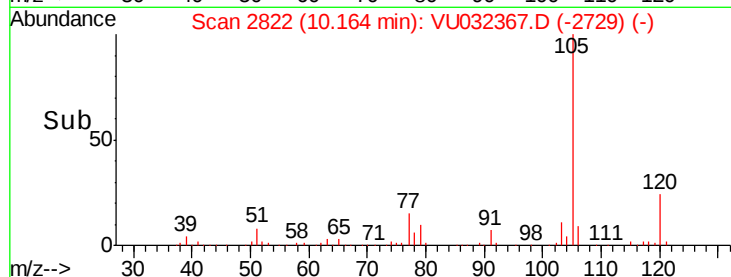
77 15.3 11.9 17.9



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: 0.150 ug/L

RT: 10.59 min Scan# 2954

Delta R.T. 0.10 min

Lab File: VU032367.D

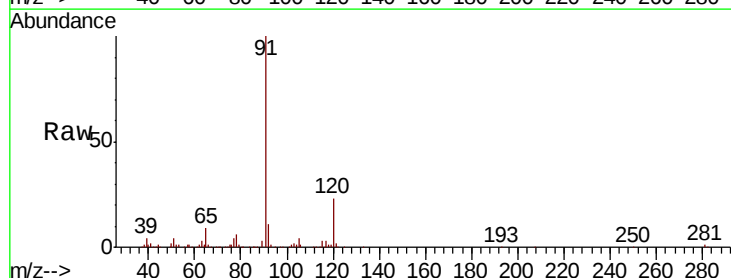
Acq: 29 May 2019 18:34

Tgt Ion: 75 Resp: 1275

Ion Ratio Lower Upper

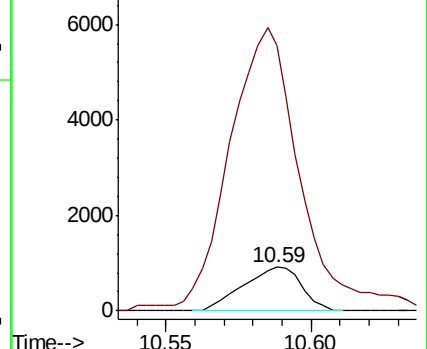
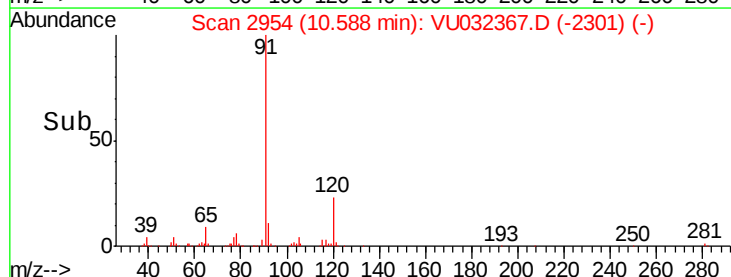
75 100

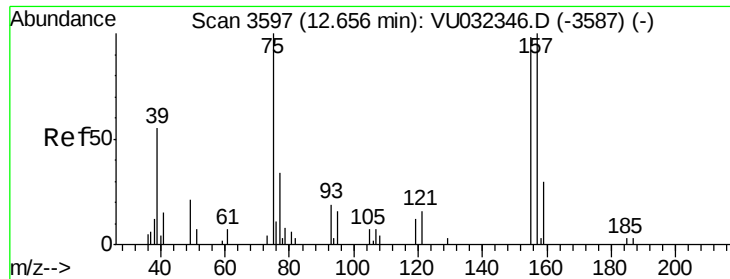
77 794.1 28.2 42.4#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

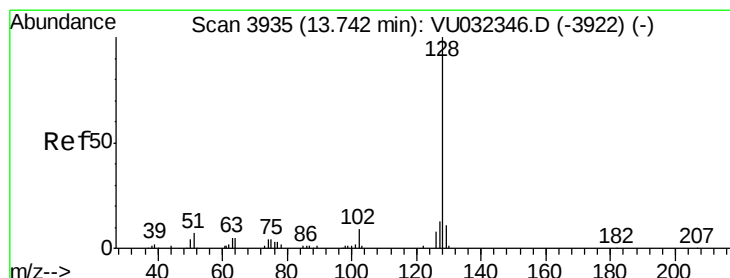
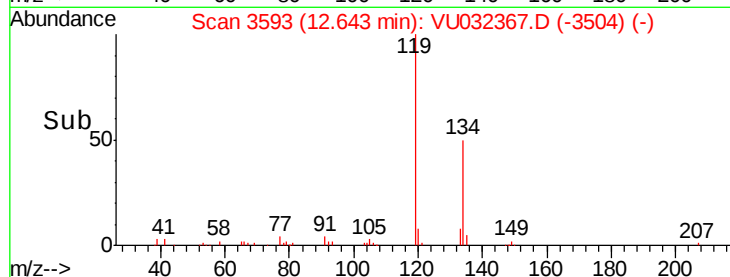
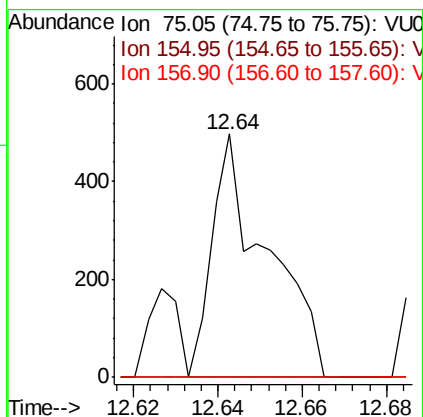
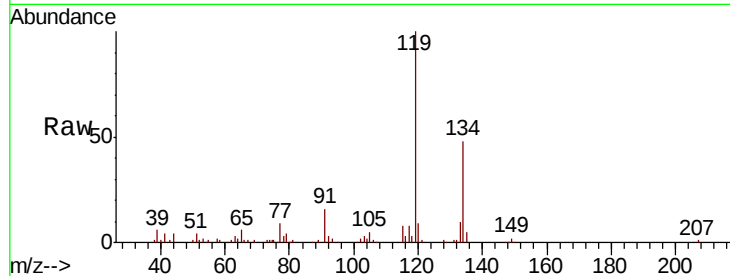




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.240 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. -0.01 min
 Lab File: VU032367.D
 Acq: 29 May 2019 18:34

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C55

Tgt Ion: 75 Resp: 449
 Ion Ratio Lower Upper
 75 100
 155 0.0 69.3 103.9#
 157 0.0 90.6 135.8#



#69
 Naphthalene
 Concen: 5.921 ug/L
 RT: 13.74 min Scan# 3934
 Delta R.T. -0.00 min
 Lab File: VU032367.D
 Acq: 29 May 2019 18:34

Tgt Ion: 128 Resp: 138662
 Ion Ratio Lower Upper
 128 100
 129 13.9 9.2 13.8#
 127 14.7 11.1 16.7

