

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
 Data File : VU032355.D
 Acq On : 29 May 2019 12:51
 Operator : JC/SP
 Sample : K3045-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0C48

Quant Time: May 30 05:38:25 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	418156	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	418915	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	213882	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	131653	5.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	112.20%
7) Chloroethane-d5	1.68	69	117818	5.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.60%
11) 1,1-Dichloroethene-d2	2.27	63	197180	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.20%
20) 2-Butanone-d5	4.19	46	324291	48.96	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.92%
24) Chloroform-d	4.64	84	246504	4.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.20%
26) 1,2-Dichloroethane-d4	5.31	65	122785	3.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.20%
32) Benzene-d6	5.33	84	539872	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
36) 1,2-Dichloropropane-d6	6.33	67	159357	4.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.60%
41) Toluene-d8	7.56	98	524822	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
43) trans-1,3-Dichloropropene-	7.85	79	60277	4.06	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.20%
46) 2-Hexanone-d5	8.31	63	276256	49.46	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.92%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	134371	3.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	70.00%
64) 1,2-Dichlorobenzene-d4	11.85	152	205627	3.49	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	69.80%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	4396	0.245	ug/L	97
8) Chloroethane	1.73	64	2169	0.189	ug/L #	52
12) 1,1-Dichloroethene	2.27	96	1706	0.115	ug/L #	1
13) Acetone	2.30	43	375123	182.781	ug/L	50
14) Carbon disulfide	2.48	76	5007	0.109	ug/L #	74
15) Methyl Acetate	2.70	43	1842779	306.005	ug/L #	41
16) Methylene chloride	2.69	84	3818	0.192	ug/L #	1
17) Methyl tert-butyl Ether	3.00	73	4775	0.142	ug/L #	1
21) 2-Butanone	4.21	43	65856	21.270	ug/L #	46
27) 1,2-Dichloroethane	5.40	62	20946	1.351	ug/L #	52
30) Cyclohexane	5.07	56	1329930	65.427	ug/L #	15
33) Benzene	5.38	78	438374	7.736	ug/L	100
35) Methylcyclohexane	6.39	83	101164	4.516	ug/L #	39
38) Bromodichloromethane	6.73	83	18490	1.043	ug/L #	15
39) cis-1,3-Dichloropropene	7.22	75	3839	0.198	ug/L #	1
42) Toluene	7.64	91	22195	0.369	ug/L	90
45) 1,1,2-Trichloroethane	8.04	97	258026	24.491	ug/L #	20

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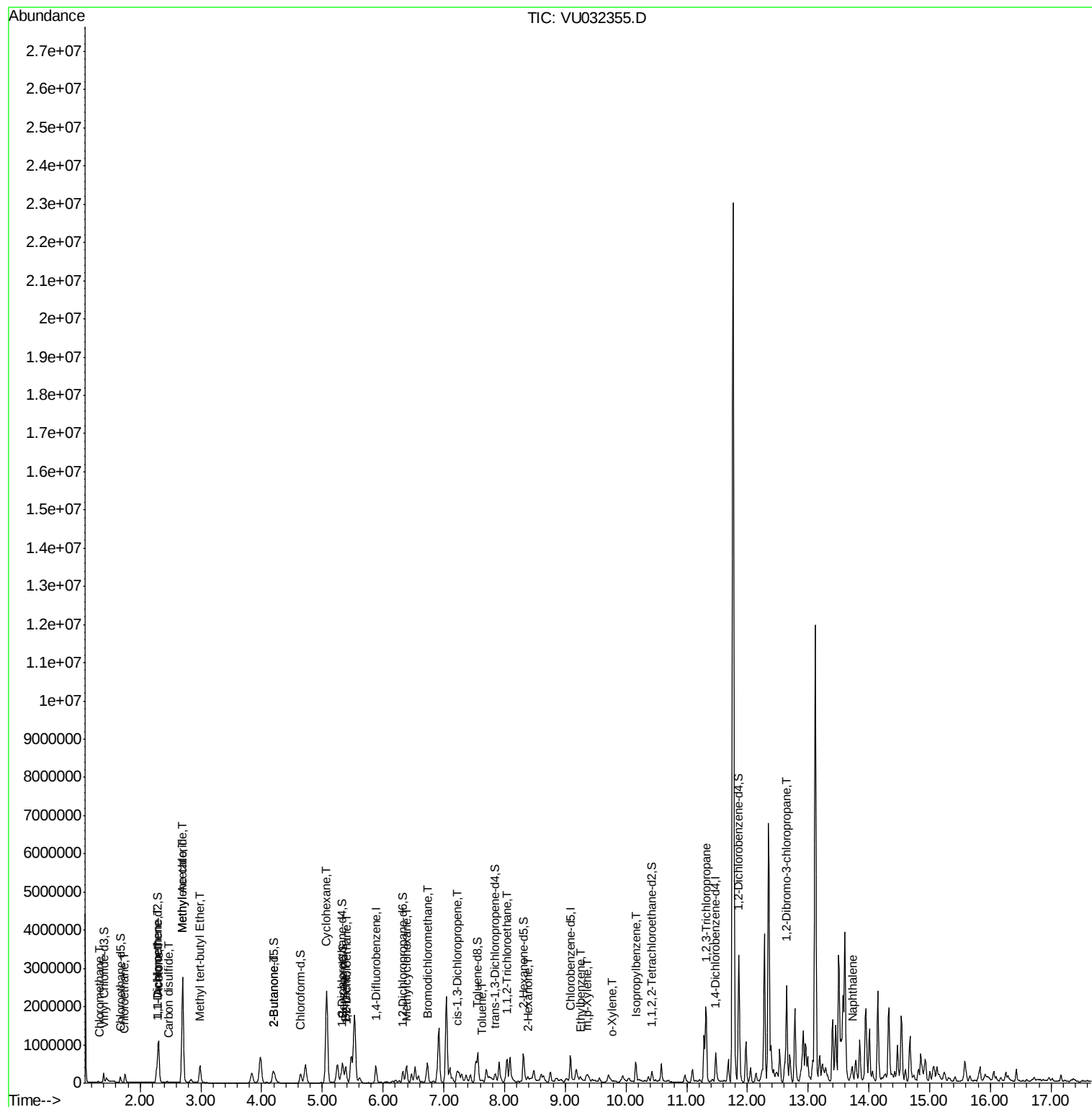
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.38	43	12424	2.349	ug/L #	50
52) Ethylbenzene	9.25	91	51074	0.843	ug/L	96
53) m,p-Xylene	9.37	106	5114	0.227	ug/L #	30
54) o-Xylene	9.78	106	6682	0.297	ug/L	84
56) Isopropylbenzene	10.16	105	348106	6.114	ug/L	99
59) 1,2,3-Trichloropropane	11.32	75	10008	1.126	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.64	75	11360	5.488	ug/L #	1
69) Naphthalene	13.73	128	47680	1.838	ug/L #	24

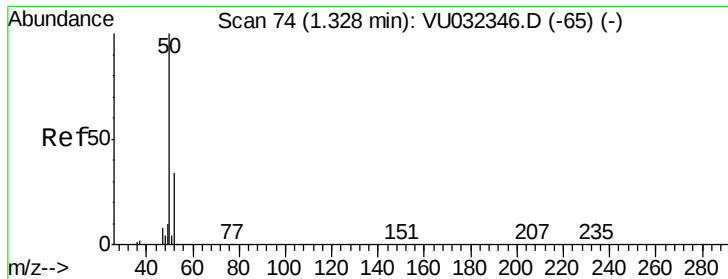
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.245 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU032355.D

Acq: 29 May 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

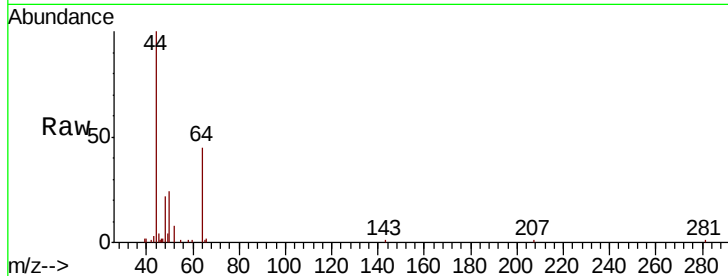
C0C48

Tgt Ion: 50 Resp: 4396

Ion Ratio Lower Upper

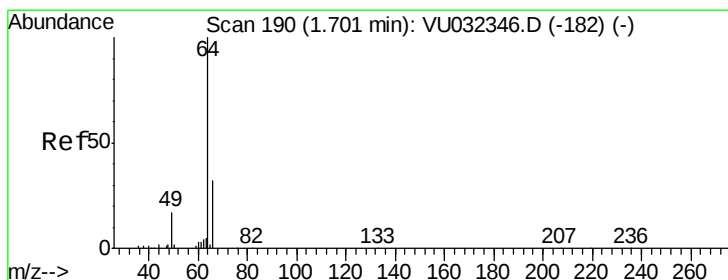
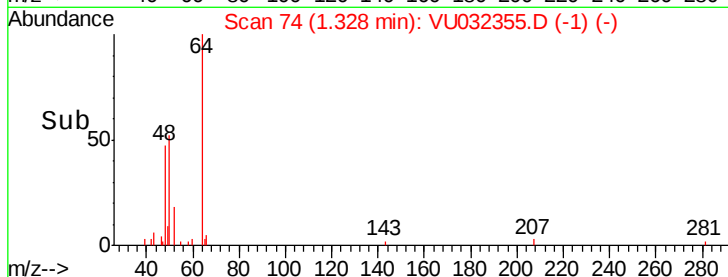
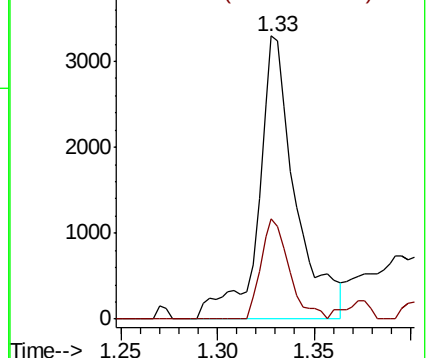
50 100

52 35.2 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: 0.189 ug/L

RT: 1.73 min Scan# 200

Delta R.T. 0.03 min

Lab File: VU032355.D

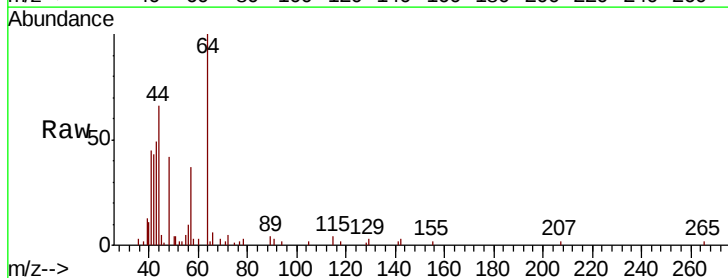
Acq: 29 May 2019 12:51

Tgt Ion: 64 Resp: 2169

Ion Ratio Lower Upper

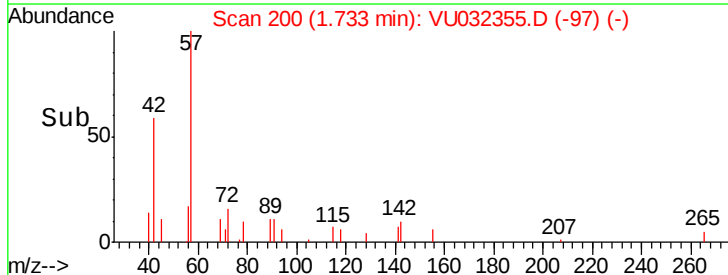
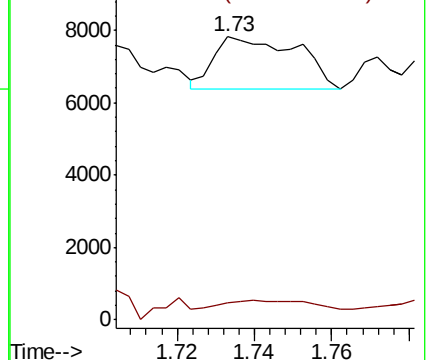
64 100

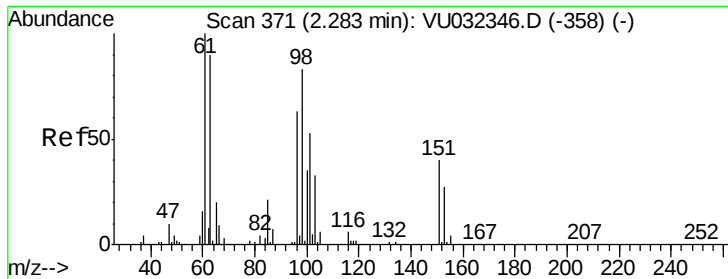
66 6.1 23.1 42.9#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#12

1,1-Dichloroethene

Concen: 0.115 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU032355.D

Acq: 29 May 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

C0C48

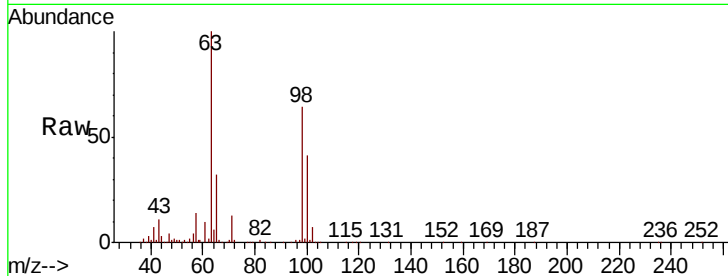
Tgt Ion: 96 Resp: 1706

Ion Ratio Lower Upper

96 100

61 1210.1 113.8 211.3#

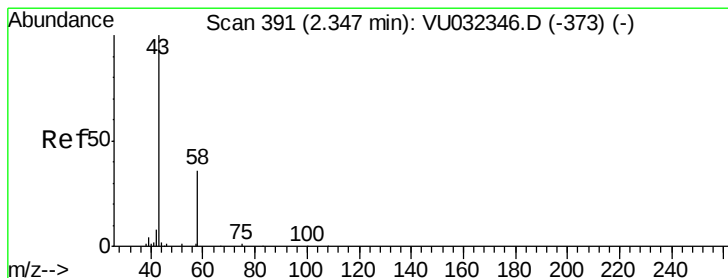
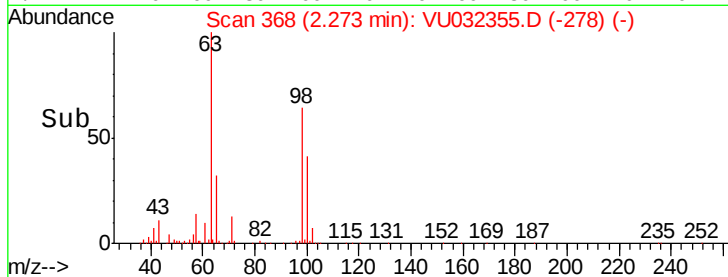
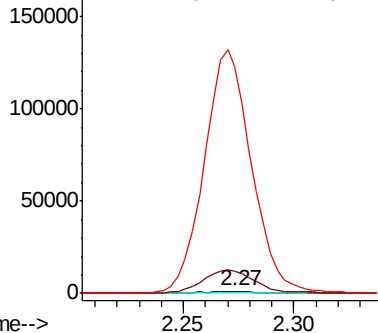
63 12181.7 108.8 202.2#



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: 182.781 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.05 min

Lab File: VU032355.D

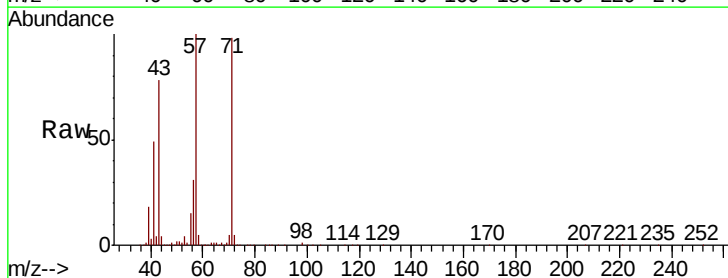
Acq: 29 May 2019 12:51

Tgt Ion: 43 Resp: 375123

Ion Ratio Lower Upper

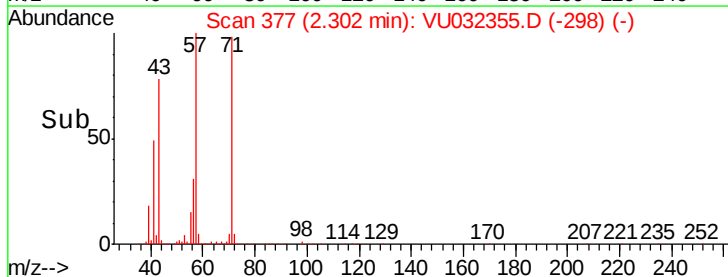
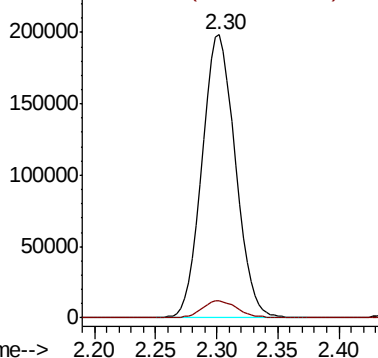
43 100

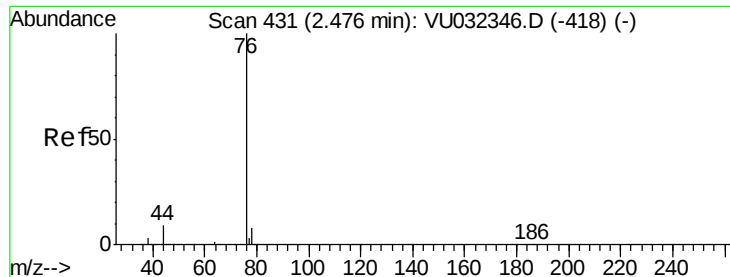
58 6.6 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.109 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU032355.D

Acq: 29 May 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

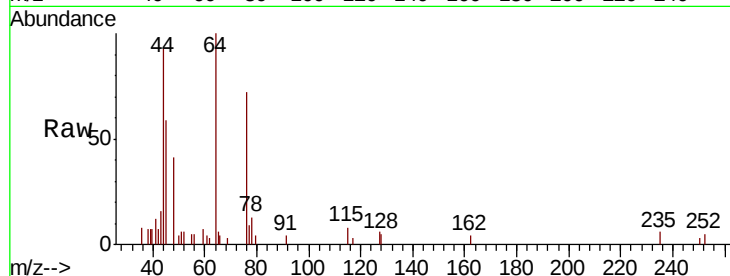
C0C48

Tgt Ion: 76 Resp: 5007

Ion Ratio Lower Upper

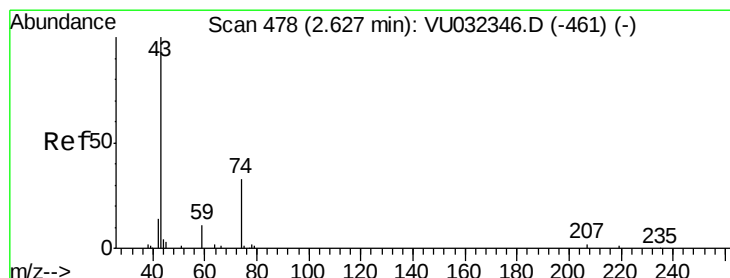
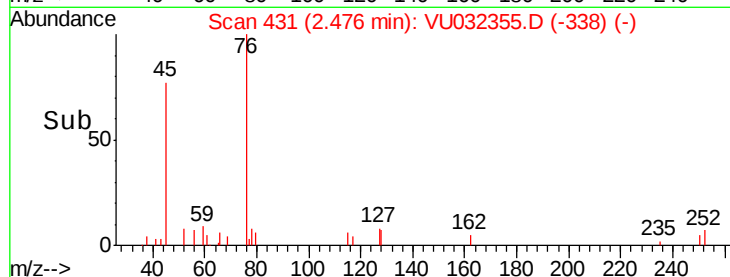
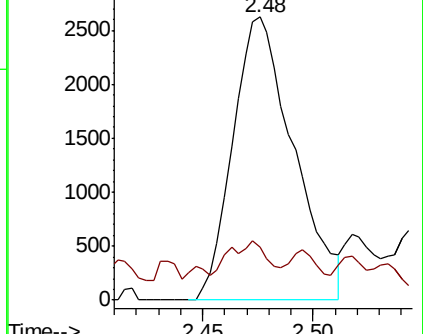
76 100

78 18.8 7.5 11.3#



Abundance Ion 76.05 (75.75 to 76.75): VU032346.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU032346.D (-418) (-)



#15

Methyl Acetate

Concen: 306.005 ug/L

RT: 2.70 min Scan# 501

Delta R.T. 0.07 min

Lab File: VU032355.D

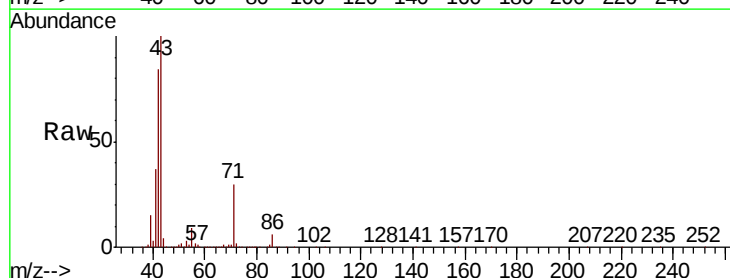
Acq: 29 May 2019 12:51

Tgt Ion: 43 Resp: 1842779

Ion Ratio Lower Upper

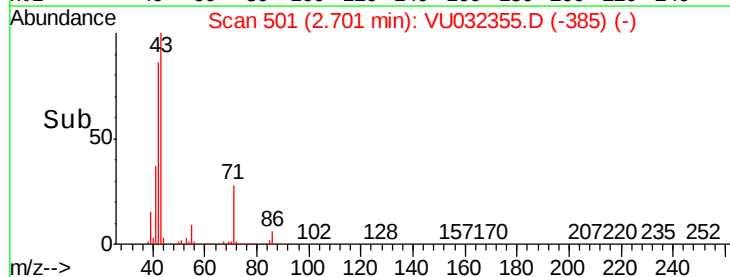
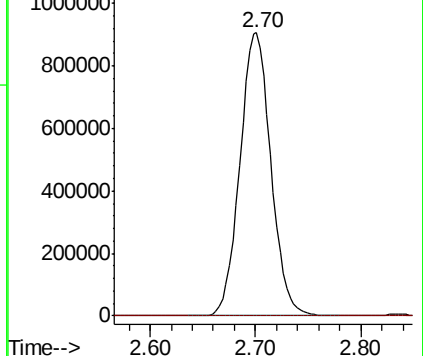
43 100

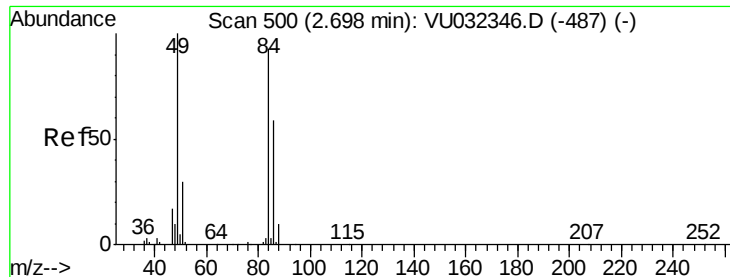
74 0.0 27.3 40.9#



Abundance Ion 43.05 (42.75 to 43.75): VU032346.D (-461) (-)

Ion 74.05 (73.75 to 74.75): VU032346.D (-461) (-)

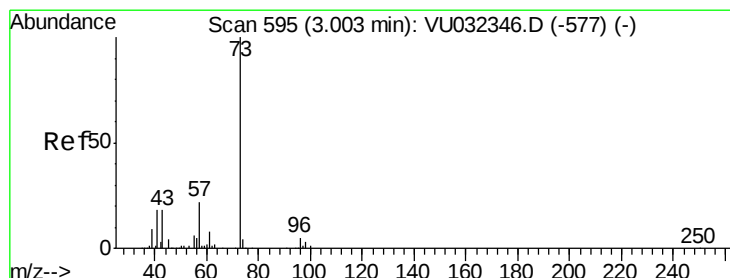
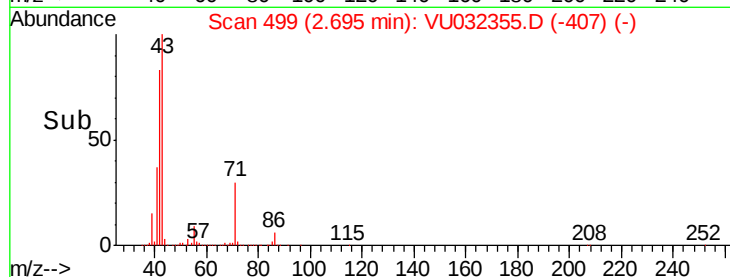
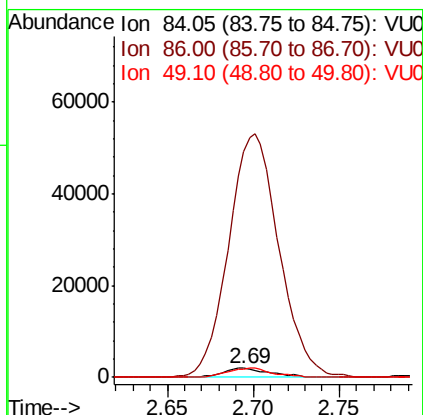
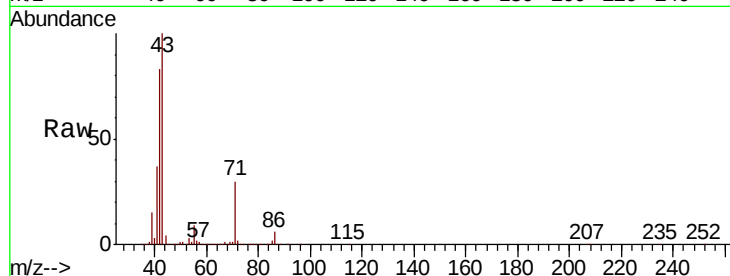




#16
Methylene chloride
Concen: 0.192 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU032355.D
Acq: 29 May 2019 12:51

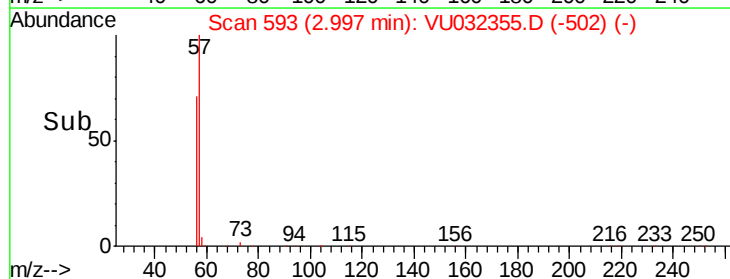
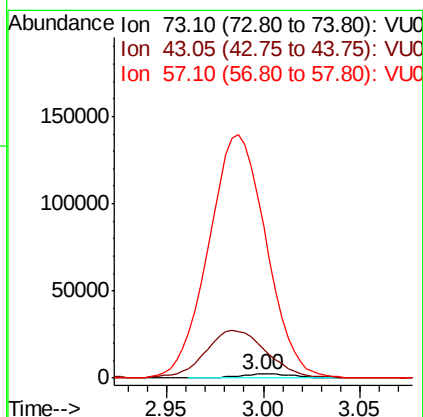
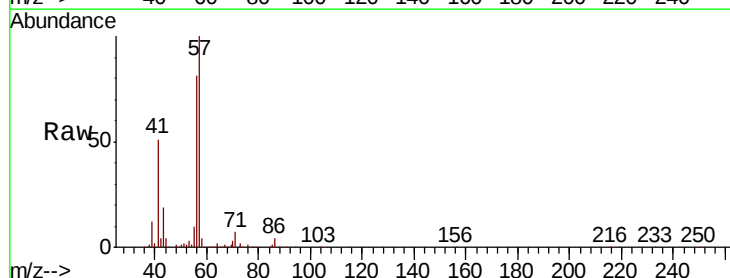
Instrument :
MSVOA_U
ClientSampleId :
C0C48

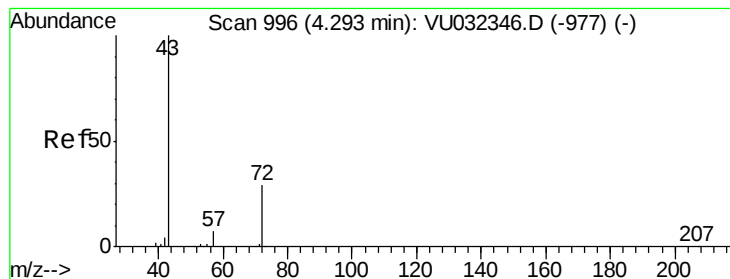
Tgt Ion: 84 Resp: 3818
Ion Ratio Lower Upper
84 100
86 2546.2 43.6 81.0#
49 97.8 71.1 132.1



#17
Methyl tert-butyl Ether
Concen: 0.142 ug/L
RT: 3.00 min Scan# 593
Delta R.T. -0.01 min
Lab File: VU032355.D
Acq: 29 May 2019 12:51

Tgt Ion: 73 Resp: 4775
Ion Ratio Lower Upper
73 100
43 1225.5 13.8 20.6#
57 6058.5 16.2 24.4#





#21

2-Butanone

Concen: 21.270 ug/L

RT: 4.21 min Scan# 970

Delta R.T. -0.08 min

Lab File: VU032355.D

Acq: 29 May 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

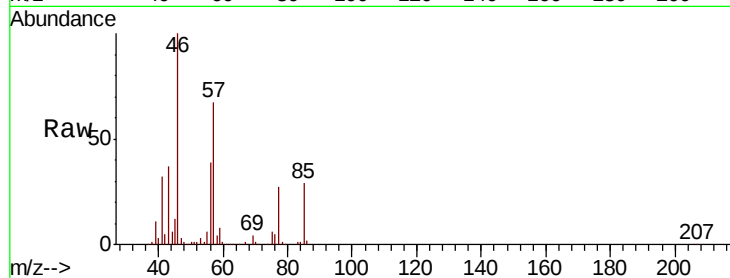
C0C48

Tgt Ion: 43 Resp: 65856

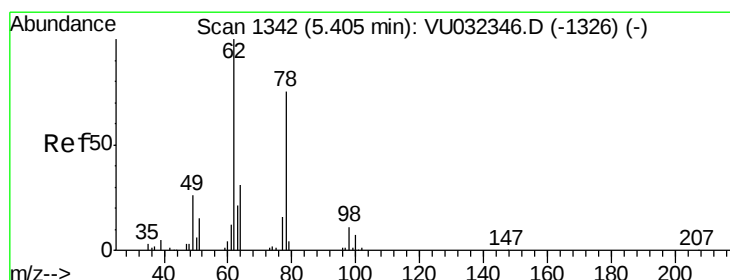
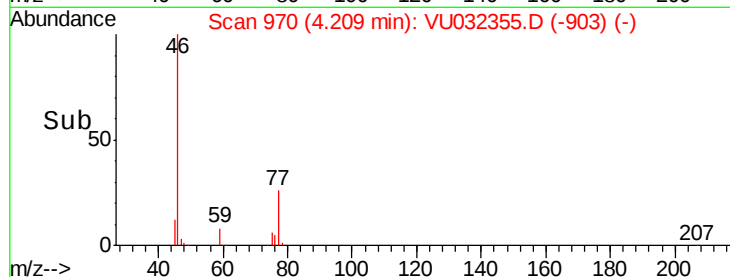
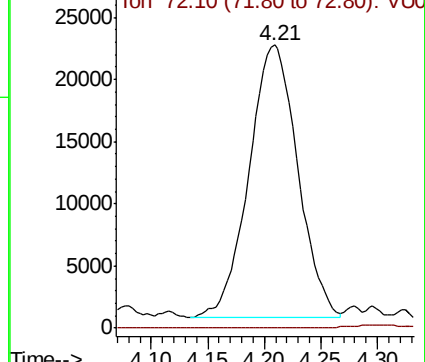
Ion Ratio Lower Upper

43 100

72 1.1 15.2 45.6#



Abundance Ion 43.05 (42.75 to 43.75): VU032346.D (-977) (-)



#27

1,2-Dichloroethane

Concen: 1.351 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VU032355.D

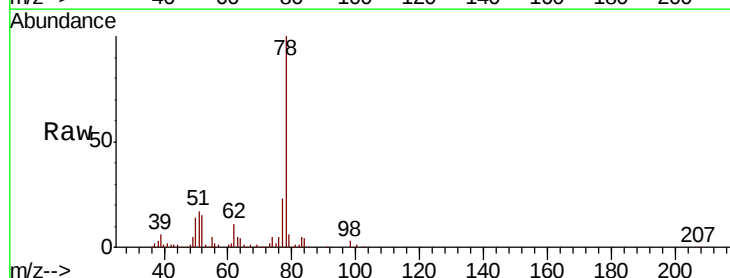
Acq: 29 May 2019 12:51

Tgt Ion: 62 Resp: 20946

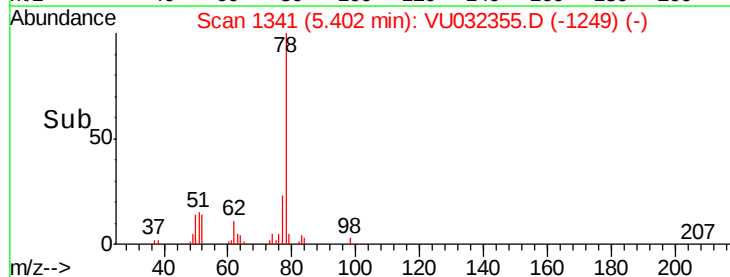
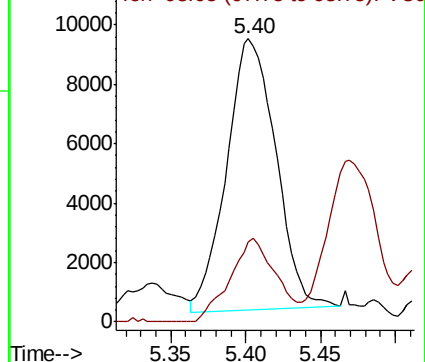
Ion Ratio Lower Upper

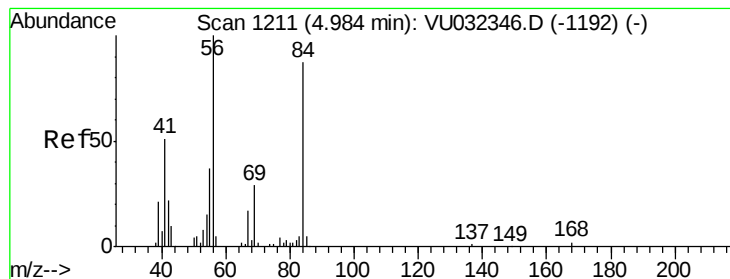
62 100

98 28.1 8.2 12.2#



Abundance Ion 62.00 (61.70 to 62.70): VU032346.D (-1326) (-)





#30

Cyclohexane

Concen: 65.427 ug/L

RT: 5.07 min Scan# 1238

Delta R.T. 0.09 min

Lab File: VU032355.D

Acq: 29 May 2019 12:51

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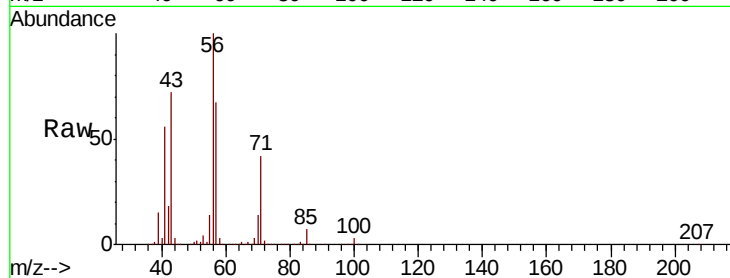
Tgt Ion: 56 Resp: 1329930

Ion Ratio Lower Upper

56 100

69 3.6 26.6 39.8#

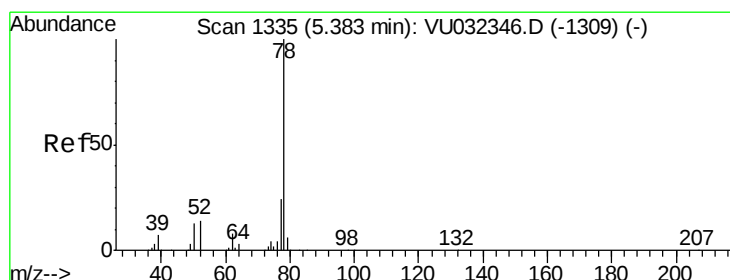
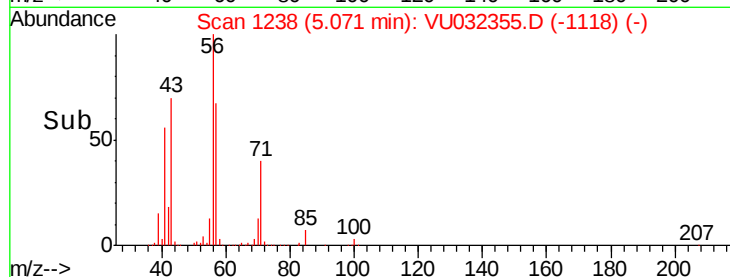
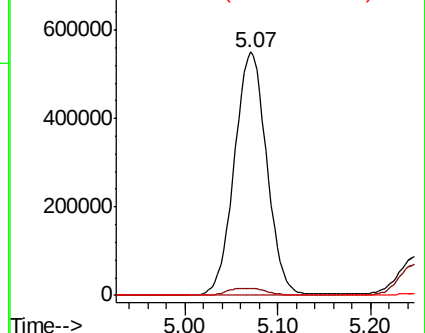
84 0.4 75.0 112.6#



Abundance Ion 56.10 (55.80 to 56.80): VU032346.D (-1192) (-)

Ion 69.15 (68.85 to 69.85): VU032346.D (-1192) (-)

Ion 84.15 (83.85 to 84.85): VU032346.D (-1192) (-)



#33

Benzene

Concen: 7.736 ug/L

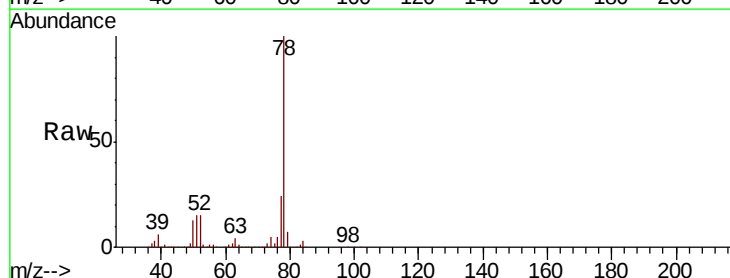
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

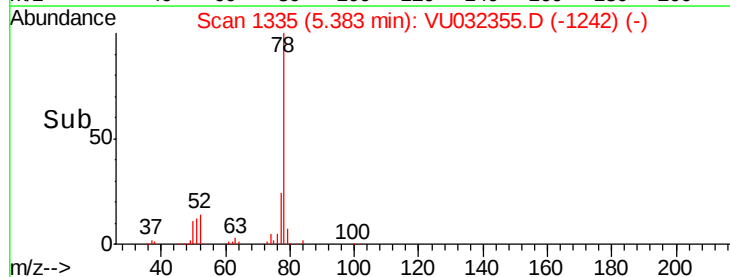
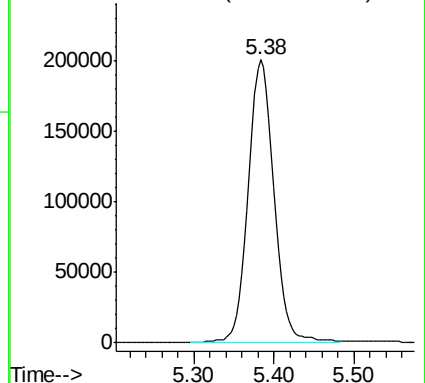
Lab File: VU032355.D

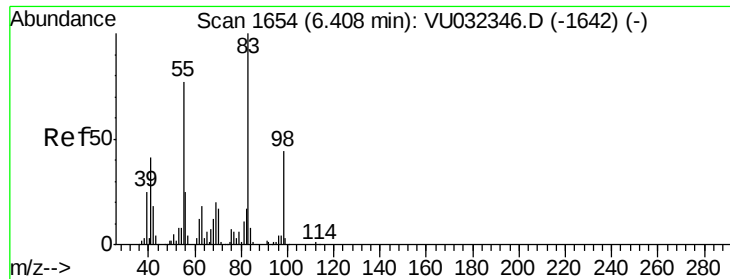
Acq: 29 May 2019 12:51

Tgt Ion: 78 Resp: 438374



Abundance Ion 78.10 (77.80 to 78.80): VU032346.D (-1309) (-)

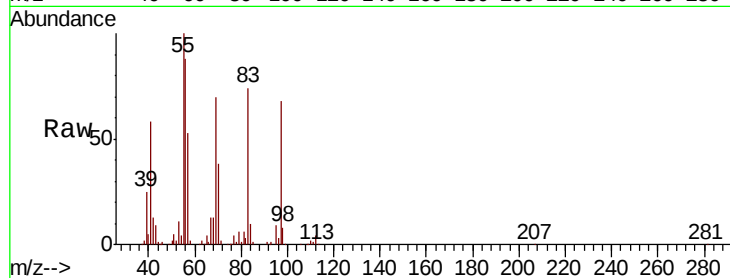




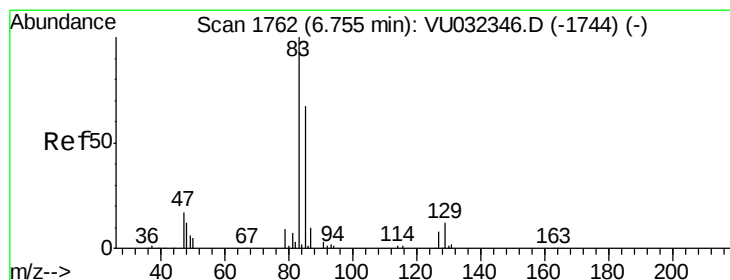
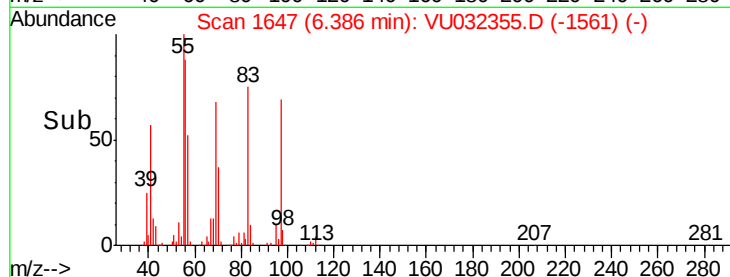
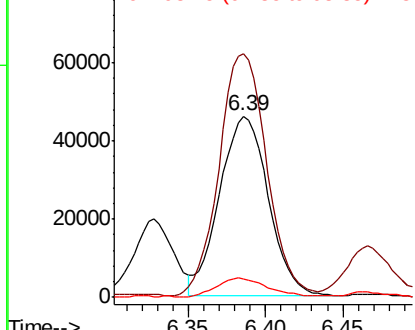
#35
Methylcyclohexane
Concen: 4.516 ug/L
RT: 6.39 min Scan# 1647
Delta R.T. -0.02 min
Lab File: VU032355.D
Acq: 29 May 2019 12:51

Instrument :
MSVOA_U
ClientSampleId :
C0C48

Tgt Ion: 83 Resp: 101164
Ion Ratio Lower Upper
83 100
55 130.2 59.7 89.5#
98 11.1 37.5 56.3#

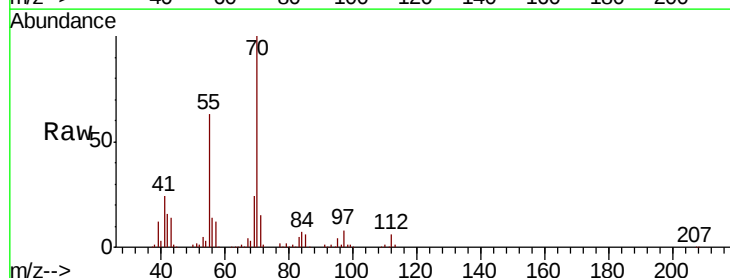


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

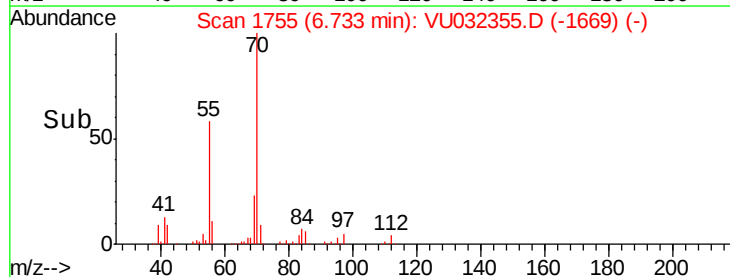
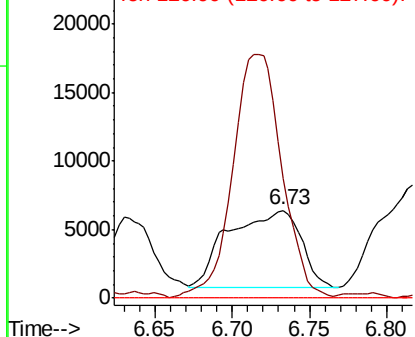


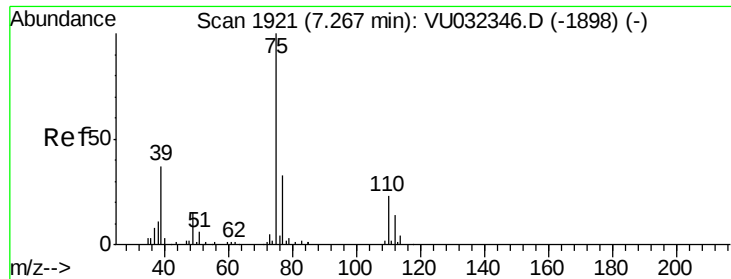
#38
Bromodichloromethane
Concen: 1.043 ug/L
RT: 6.73 min Scan# 1755
Delta R.T. -0.02 min
Lab File: VU032355.D
Acq: 29 May 2019 12:51

Tgt Ion: 83 Resp: 18490
Ion Ratio Lower Upper
83 100
85 136.2 44.4 82.4#
127 0.0 7.0 10.6#



Abundance Ion 82.95 (82.65 to 83.65): VU0
Ion 85.00 (84.70 to 85.70): VU0
Ion 126.90 (126.60 to 127.60): V

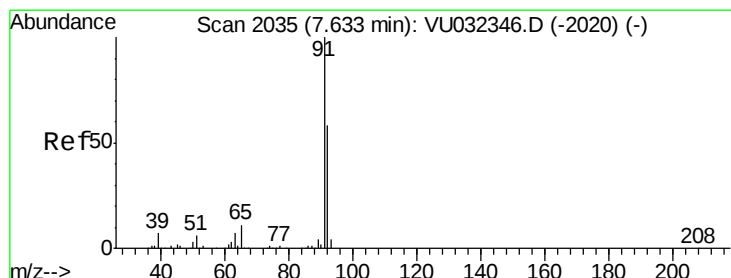
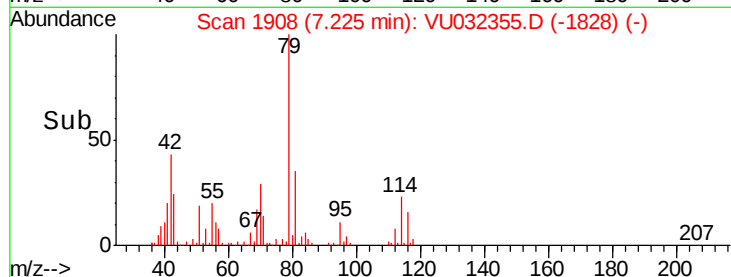
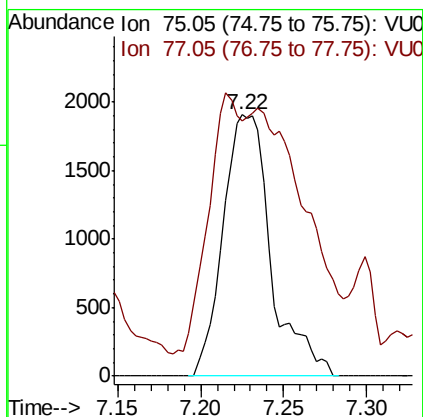
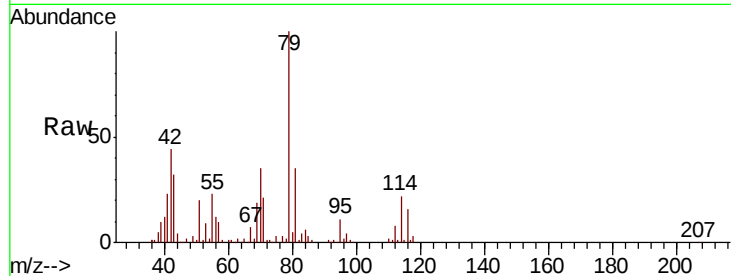




#39
 cis-1,3-Dichloropropene
 Concen: 0.198 ug/L
 RT: 7.22 min Scan# 1908
 Delta R.T. -0.04 min
 Lab File: VU032355.D
 Acq: 29 May 2019 12:51

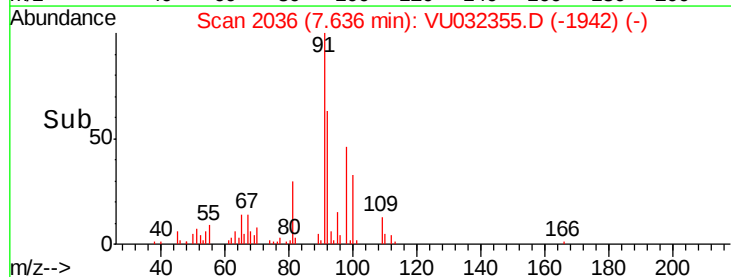
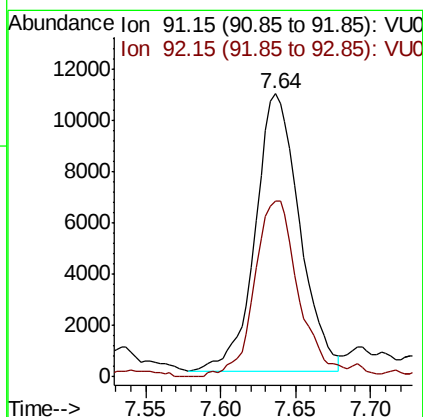
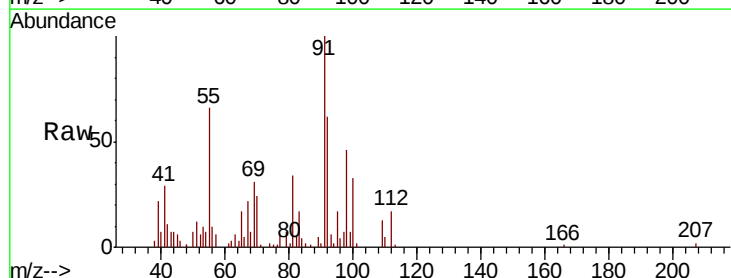
Instrument :
 MSVOA_U
 ClientSampleId :
 C0C48

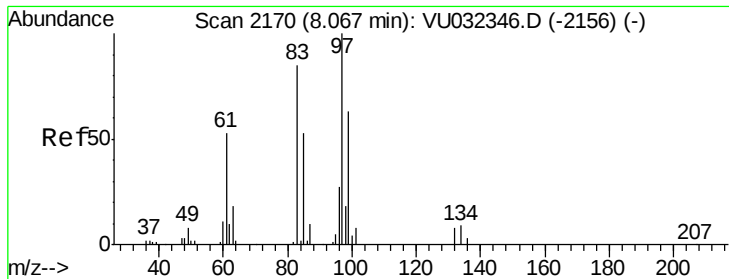
Tgt Ion: 75 Resp: 3839
 Ion Ratio Lower Upper
 75 100
 77 97.6 22.6 42.0#



#42
 Toluene
 Concen: 0.369 ug/L
 RT: 7.64 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VU032355.D
 Acq: 29 May 2019 12:51

Tgt Ion: 91 Resp: 22195
 Ion Ratio Lower Upper
 91 100
 92 62.0 38.5 71.5

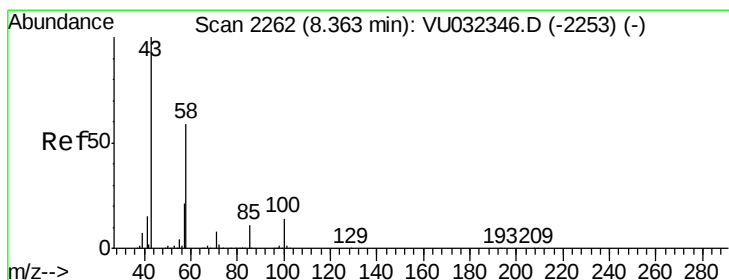
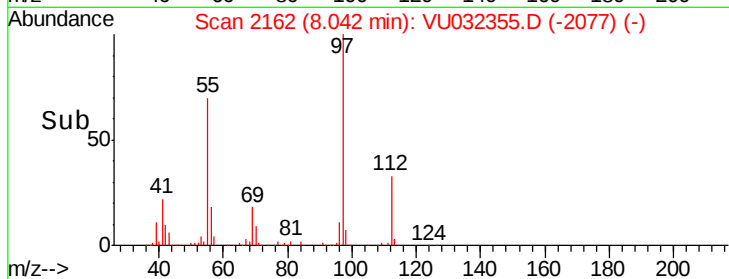
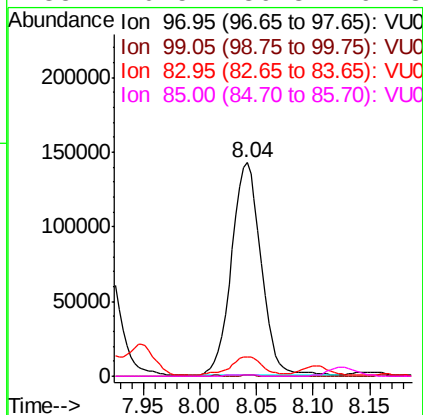
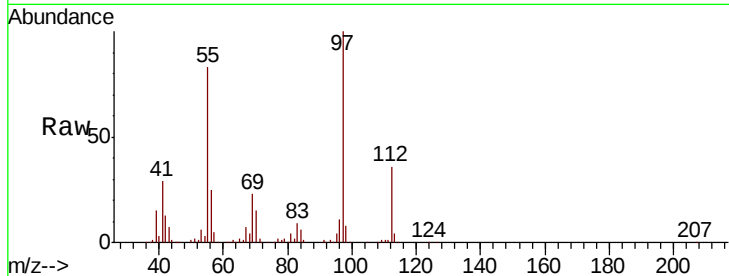




#45
 1,1,2-Trichloroethane
 Concen: 24.491 ug/L
 RT: 8.04 min Scan# 2162
 Delta R.T. -0.03 min
 Lab File: VU032355.D
 Acq: 29 May 2019 12:51

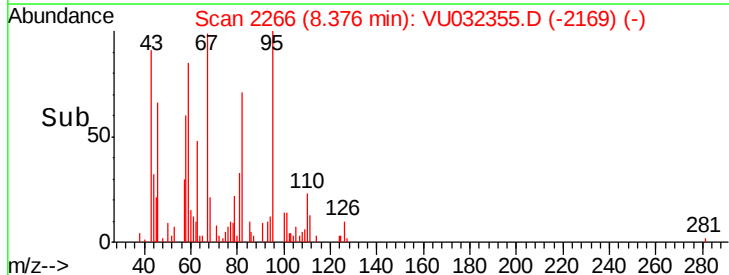
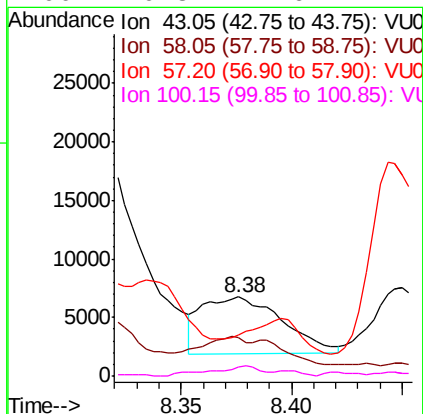
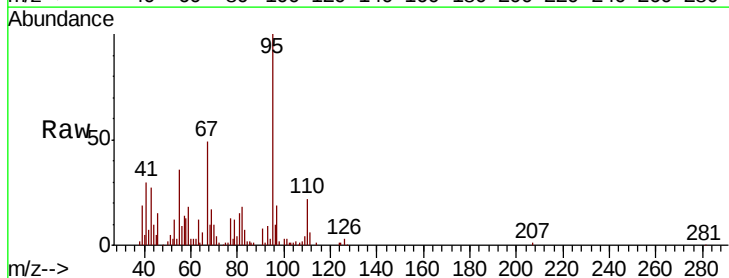
Instrument :
 MSVOA_U
 ClientSampleId :
 C0C48

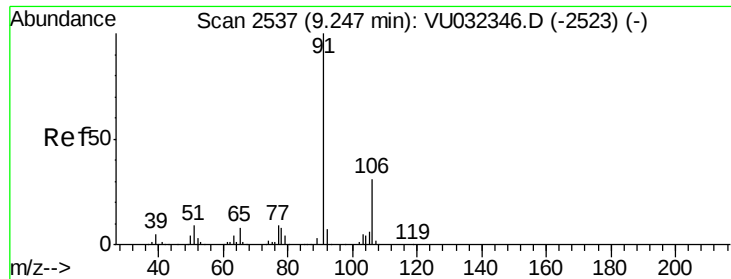
Tgt Ion:	97	Resp:	258026
Ion	Ratio	Lower	Upper
97	100		
99	0.4	44.2	82.0#
83	9.2	60.5	112.3#
85	0.5	36.3	67.3#



#48
 2-Hexanone
 Concen: 2.349 ug/L
 RT: 8.38 min Scan# 2266
 Delta R.T. 0.01 min
 Lab File: VU032355.D
 Acq: 29 May 2019 12:51

Tgt Ion:	43	Resp:	12424
Ion	Ratio	Lower	Upper
43	100		
58	15.0	49.7	74.5#
57	0.0	17.1	25.7#
100	10.8	11.6	17.4#





#52

Ethylbenzene

Concen: 0.843 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032355.D

Acq: 29 May 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

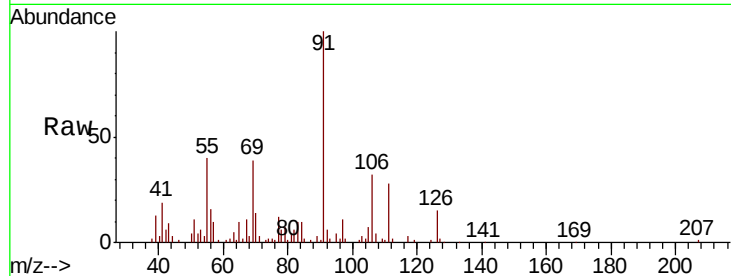
C0C48

Tgt Ion: 91 Resp: 51074

Ion Ratio Lower Upper

91 100

106 32.2 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) (-)

9.25

30000

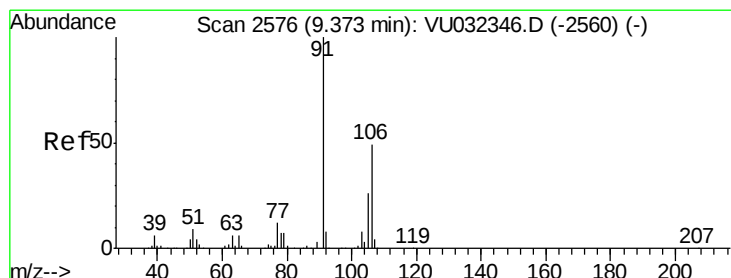
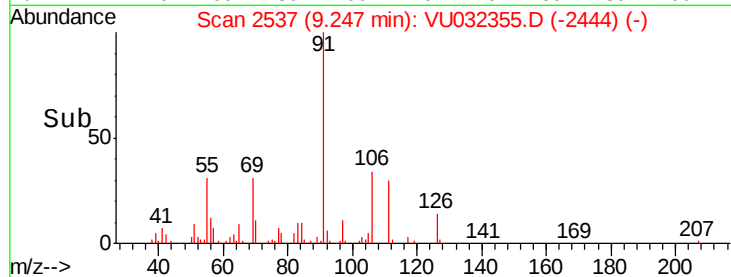
20000

10000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 0.227 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032355.D

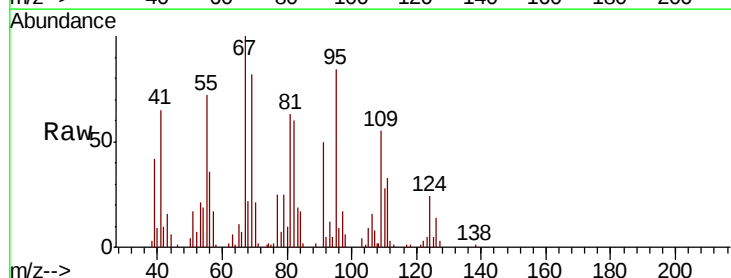
Acq: 29 May 2019 12:51

Tgt Ion: 106 Resp: 5114

Ion Ratio Lower Upper

106 100

91 313.5 143.9 267.2#



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

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

9.37

10000

8000

6000

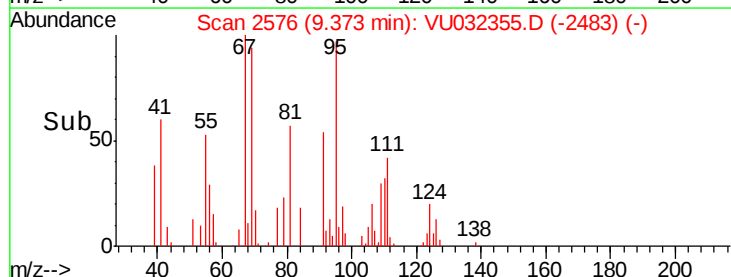
4000

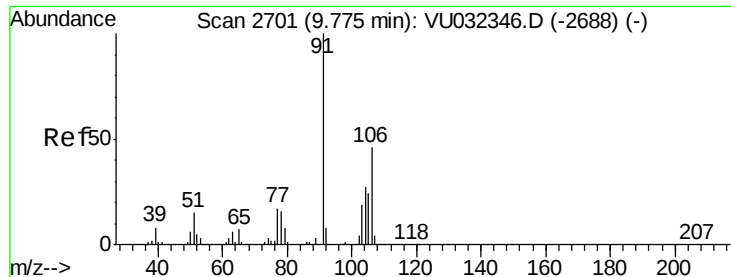
2000

0

9.30 9.35 9.40 9.45

Time-->

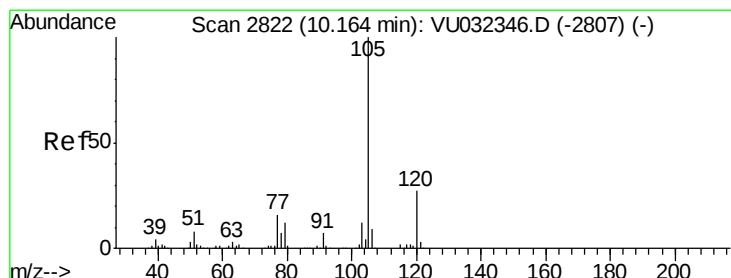
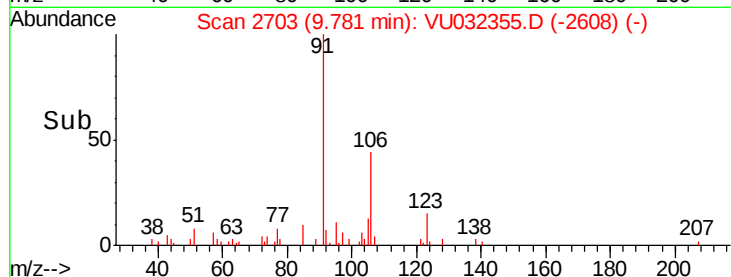
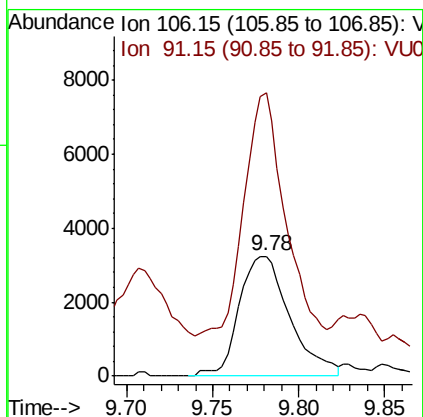
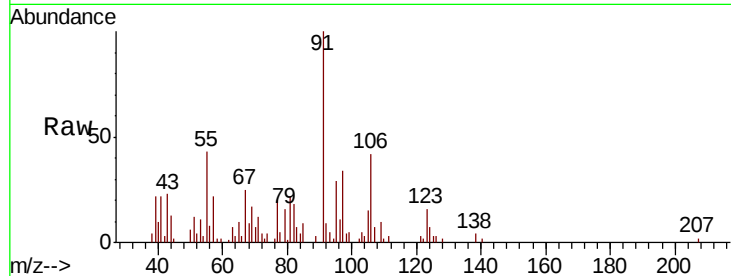




#54
o-Xylene
Concen: 0.297 ug/L
RT: 9.78 min Scan# 2703
Delta R.T. 0.01 min
Lab File: VU032355.D
Acq: 29 May 2019 12:51

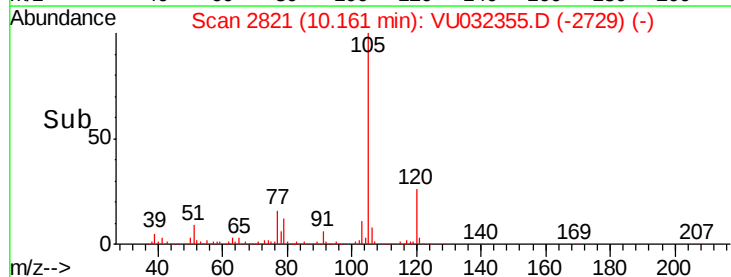
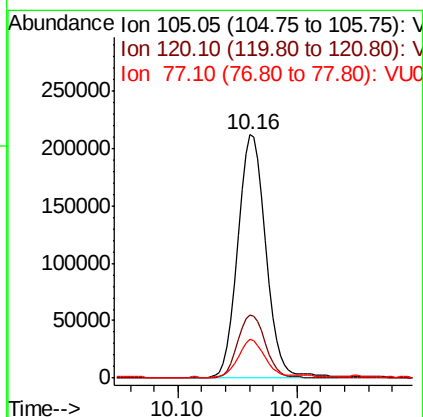
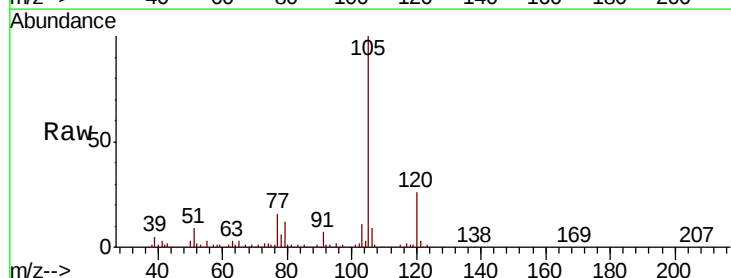
Instrument :
MSVOA_U
ClientSampleId :
C0C48

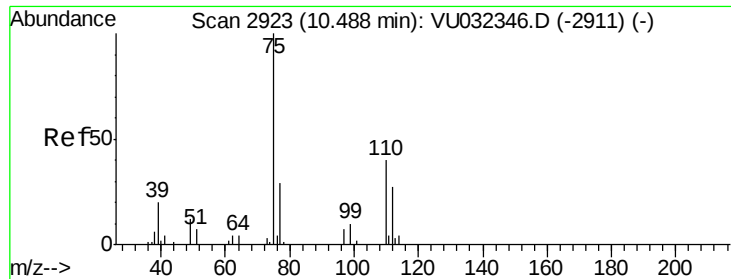
Tgt Ion:106 Resp: 6682
Ion Ratio Lower Upper
106 100
91 236.6 147.8 274.4



#56
Isopropylbenzene
Concen: 6.114 ug/L
RT: 10.16 min Scan# 2821
Delta R.T. -0.00 min
Lab File: VU032355.D
Acq: 29 May 2019 12:51

Tgt Ion:105 Resp: 348106
Ion Ratio Lower Upper
105 100
120 25.7 21.0 31.6
77 14.8 11.9 17.9

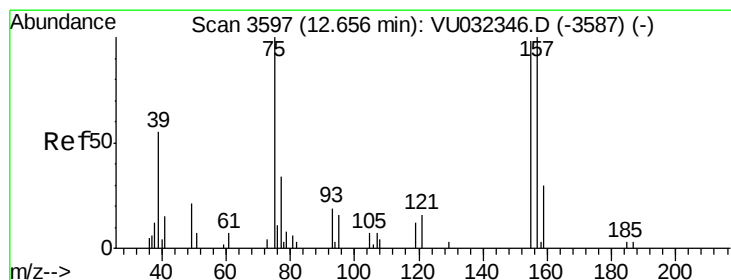
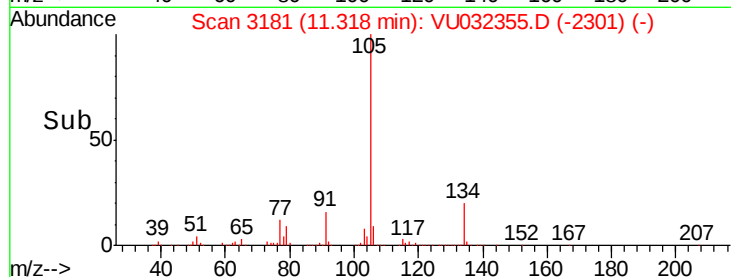
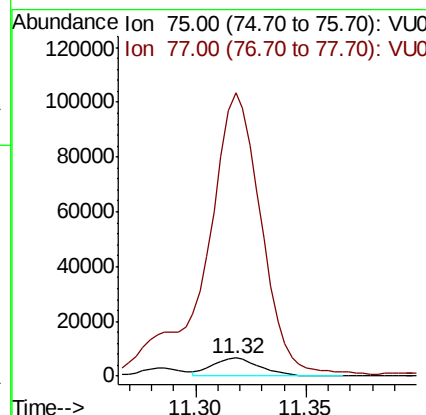
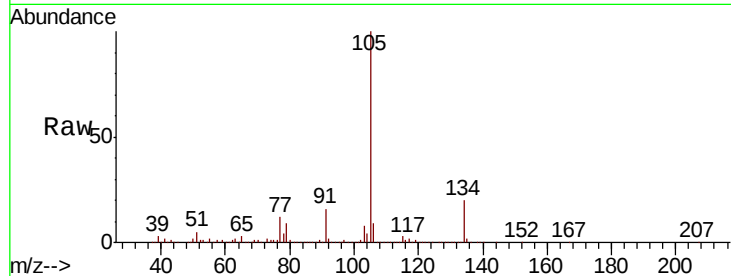




#59
 1,2,3-Trichloropropane
 Concen: 1.126 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.83 min
 Lab File: VU032355.D
 Acq: 29 May 2019 12:51

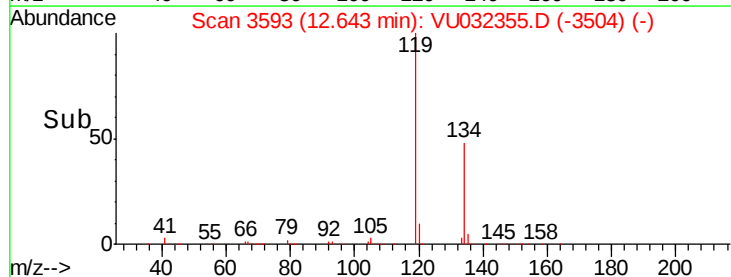
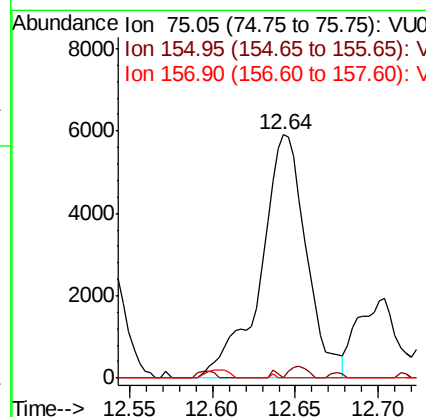
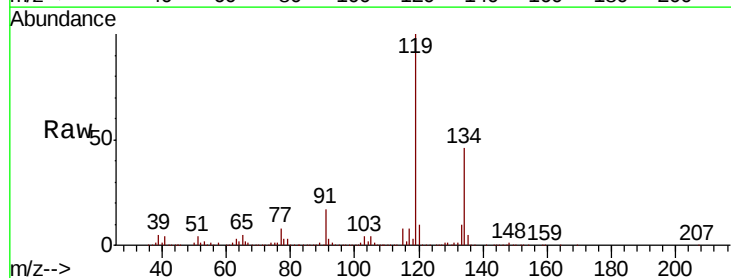
Instrument :
 MSVOA_U
 ClientSampleId :
 C0C48

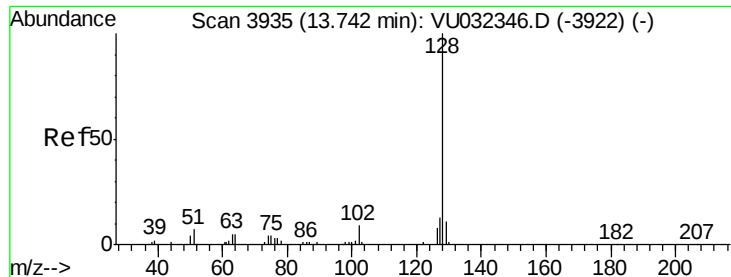
Tgt Ion: 75 Resp: 10008
 Ion Ratio Lower Upper
 75 100
 77 1791.5 28.2 42.4#



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.488 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. -0.01 min
 Lab File: VU032355.D
 Acq: 29 May 2019 12:51

Tgt Ion: 75 Resp: 11360
 Ion Ratio Lower Upper
 75 100
 155 0.0 69.3 103.9#
 157 0.0 90.6 135.8#





#69

Naphthalene

Concen: 1.838 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. -0.02 min

Lab File: VU032355.D

Acq: 29 May 2019 12:51

Instrument :

MSVOA_U

ClientSampleId :

C0C48

Tgt Ion:128 Resp: 47680

Ion Ratio Lower Upper

128 100

129 62.0 9.2 13.8#

127 26.3 11.1 16.7#

