

Data File : VU033309.D
Acq On : 18 Jul 2019 11:20
Operator : JC/SP
Sample : K3828-03MSD
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MSD

Quant Time: Jul 19 01:46:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 19 01:43:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	340412	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	337624	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	170346	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	50141	19.46	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	38.92%#
7) Chloroethane-d5	1.67	69	56524	25.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	51.36%#
11) 1,1-Dichloroethene-d2	2.26	63	131163	28.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	56.12%#
21) 2-Butanone-d5	4.15	46	173556	106.29	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.29%
24) Chloroform-d	4.62	84	153737	35.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	71.20%
26) 1,2-Dichloroethane-d4	5.29	65	101119	36.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	73.02%
32) Benzene-d6	5.32	84	244481	29.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	59.04%#
36) 1,2-Dichloropropane-d6	6.31	67	97368	36.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	73.40%
41) Toluene-d8	7.55	98	212355	27.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	54.38%#
43) trans-1,3-Dichloropropene-	7.83	79	51219	39.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.74%
47) 2-Hexanone-d5	8.29	63	132377	110.68	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.68%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	192905	48.04	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.08%
64) 1,2-Dichlorobenzene-d4	11.85	152	142802	47.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.02%

Target Compounds

						Qvalue
12) 1,1-Dichloroethene	2.27	96	108119	47.585	ug/L #	77
13) Acetone	2.31	43	23549	11.543	ug/L	99
15) Methyl Acetate	2.60	43	2561	0.961	ug/L #	73
16) Methylene chloride	2.68	84	3230	1.245	ug/L #	72
27) 1,2-Dichloroethane	5.37	62	4159	1.119	ug/L #	85
29) Cyclohexane	4.97	56	51950	14.121	ug/L	96
33) Benzene	5.37	78	467670	47.498	ug/L	100
34) Trichloroethene	6.16	95	121633	47.236	ug/L	97
35) Methylcyclohexane	6.40	83	82427	20.897	ug/L	92
39) cis-1,3-Dichloropropene	7.21	75	2903	0.709	ug/L #	52
40) 4-Methyl-2-pentanone	7.40	43	64893	18.116	ug/L #	50
42) Toluene	7.62	91	516434	48.651	ug/L	100
44) trans-1,3-Dichloropropene	7.84	75	2259	0.612	ug/L #	19
45) 1,1,2-Trichloroethane	8.03	97	7044	2.789	ug/L #	21
48) 2-Hexanone	8.40	43	103458	35.452	ug/L #	1
51) Chlorobenzene	9.10	112	334712	48.309	ug/L	99
52) Ethylbenzene	9.23	91	164900	14.517	ug/L	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Fri Jul 19 01:43:14 2019
Response via : Initial Calibration

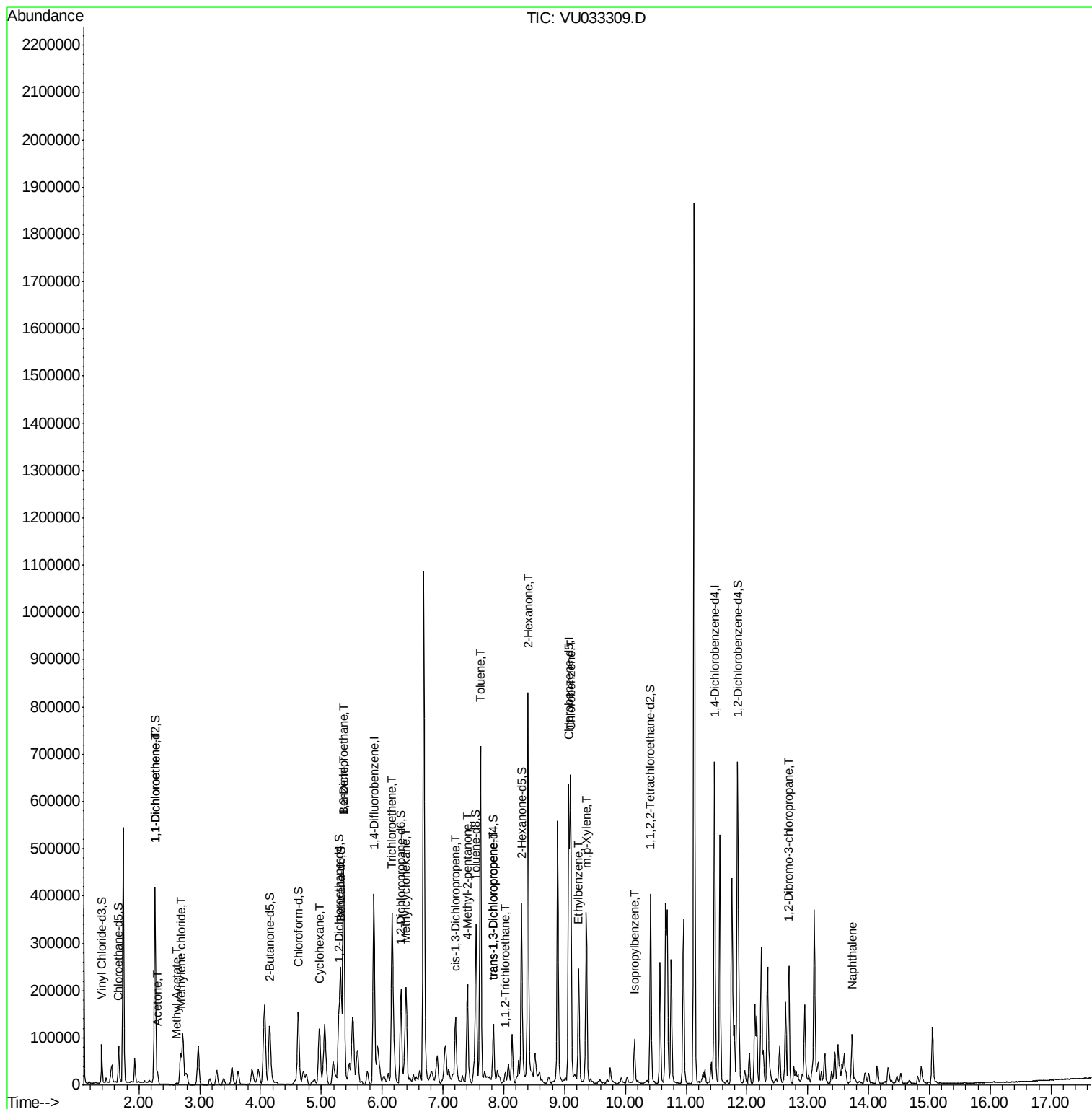
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.36	106	100669	23.398	ug/L	99
56) Isopropylbenzene	10.15	105	57826	5.260	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.69	75	1088	1.060	ug/L #	3
69) Naphthalene	13.73	128	88177	8.308	ug/L	99

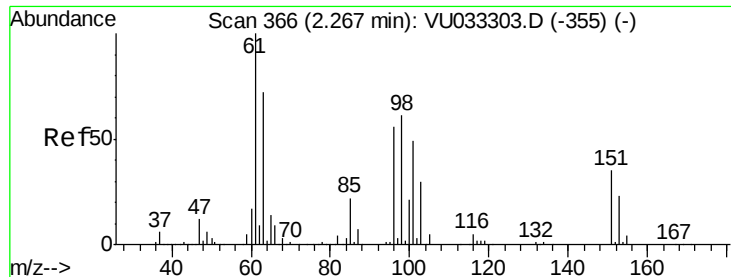
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 47.585 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MSD

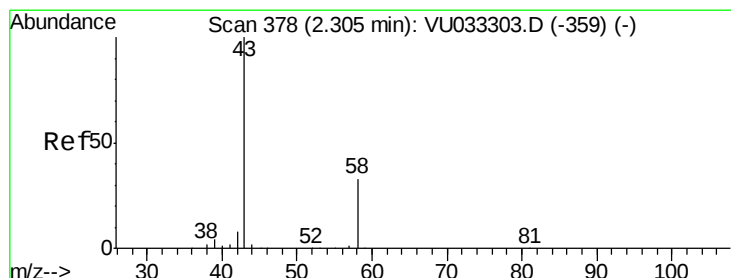
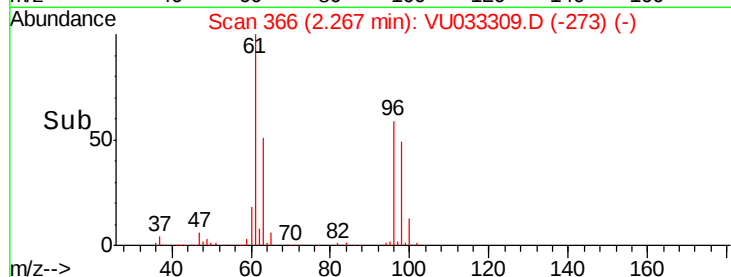
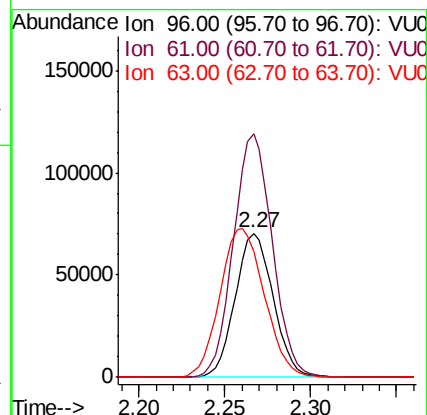
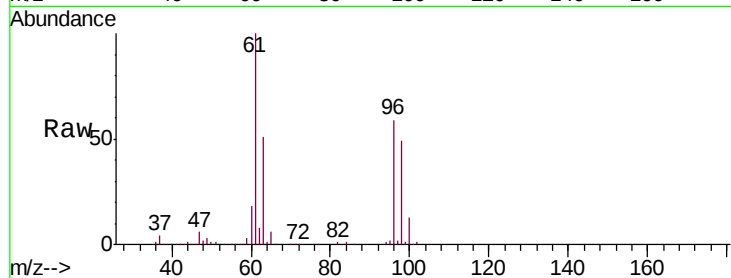
Tgt Ion: 96 Resp: 108119

Ion Ratio Lower Upper

96 100

61 168.7 126.1 234.1

63 86.8 96.8 179.8#



#13

Acetone

Concen: 11.543 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU033309.D

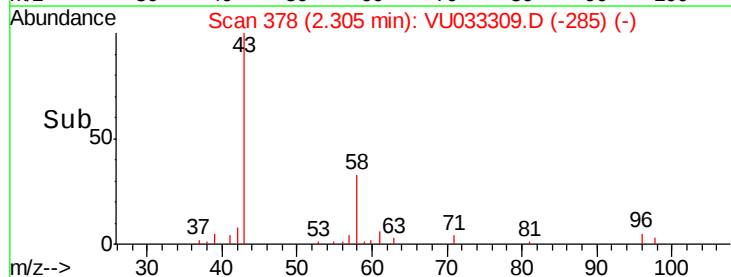
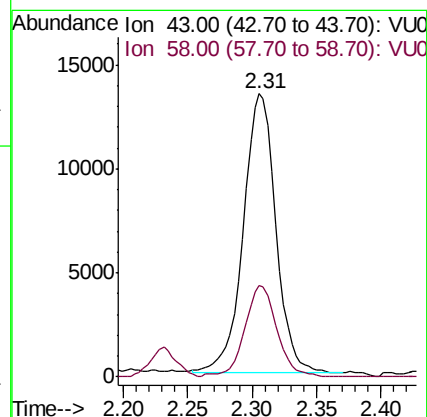
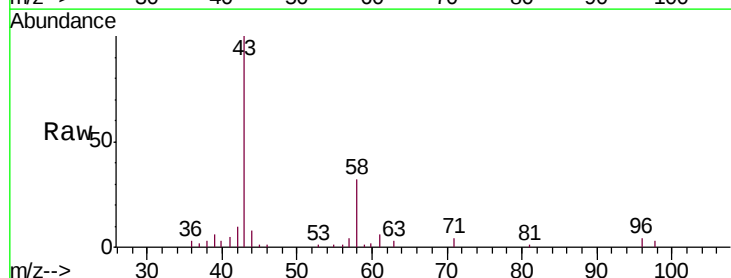
Acq: 18 Jul 2019 11:20

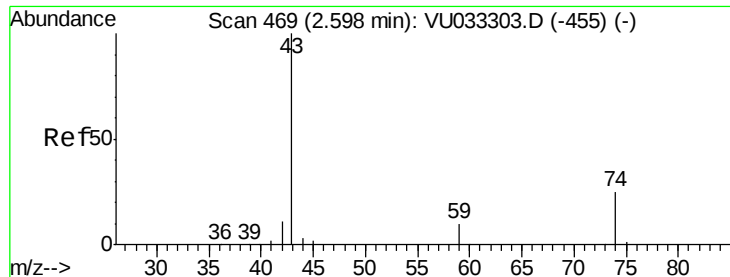
Tgt Ion: 43 Resp: 23549

Ion Ratio Lower Upper

43 100

58 32.2 0.0 65.4





#15

Methyl Acetate

Concen: 0.961 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.01 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Instrument :

MSVOA_U

ClientSampleId :

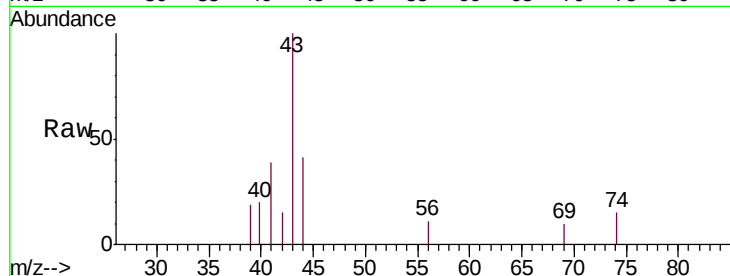
GAMR0MSD

Tgt Ion: 43 Resp: 2561

Ion Ratio Lower Upper

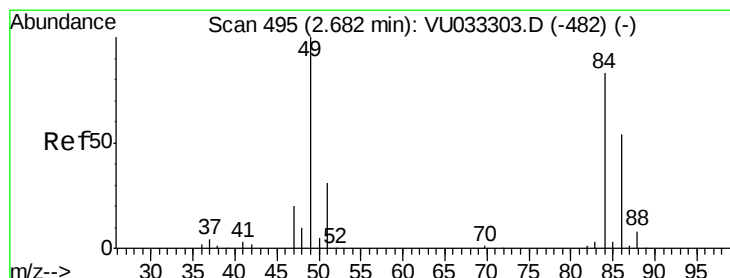
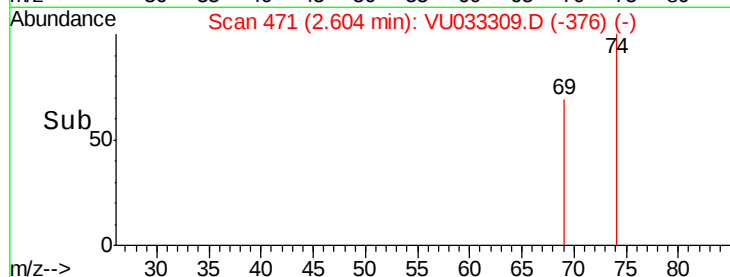
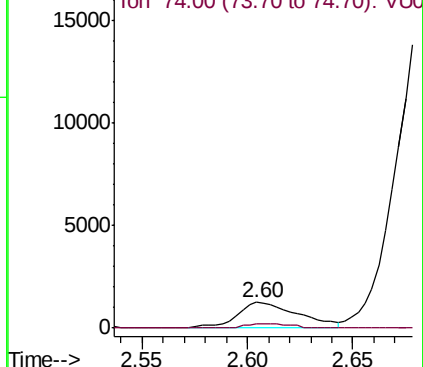
43 100

74 11.5 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VU033309.D (-376) (-)

Ion 74.00 (73.70 to 74.70): VU033309.D (-376) (-)



#16

Methylene chloride

Concen: 1.245 ug/L

RT: 2.68 min Scan# 495

Delta R.T. -0.00 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

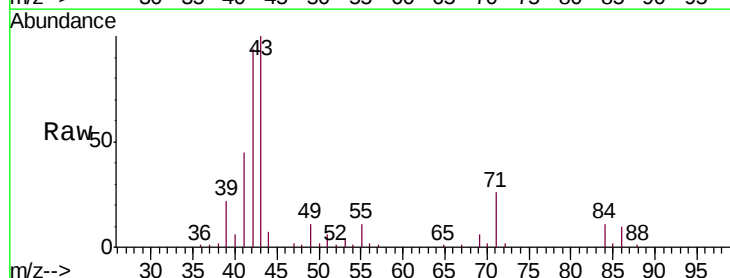
Tgt Ion: 84 Resp: 3230

Ion Ratio Lower Upper

84 100

86 92.6 45.7 84.9#

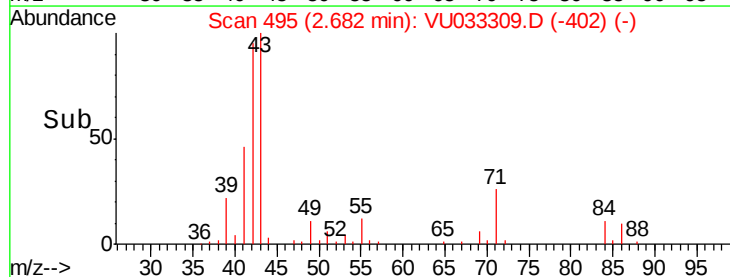
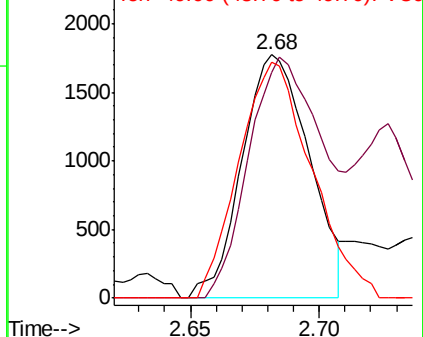
49 96.7 87.7 162.9

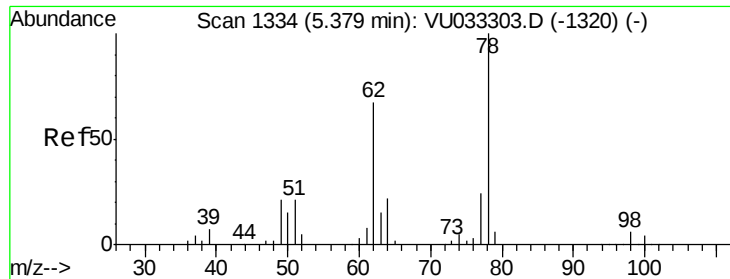


Abundance Ion 84.00 (83.70 to 84.70): VU033309.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU033309.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU033309.D (-402) (-)





#27

1,2-Dichloroethane

Concen: 1.119 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Instrument :

MSVOA_U

ClientSampleId :

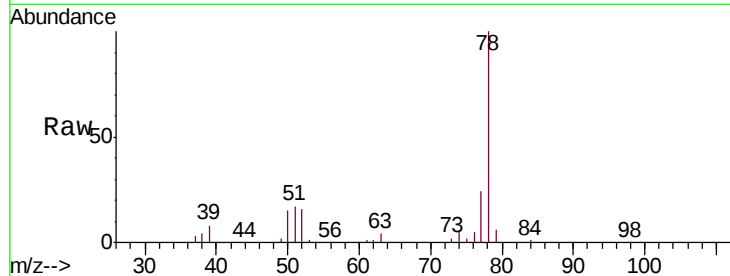
GAMR0MSD

Tgt Ion: 62 Resp: 4159

Ion Ratio Lower Upper

62 100

98 14.0 7.0 10.6#



Abundance Ion 62.00 (61.70 to 62.70): VU033303.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU033303.D (-1320) (-)

2000

1500

1000

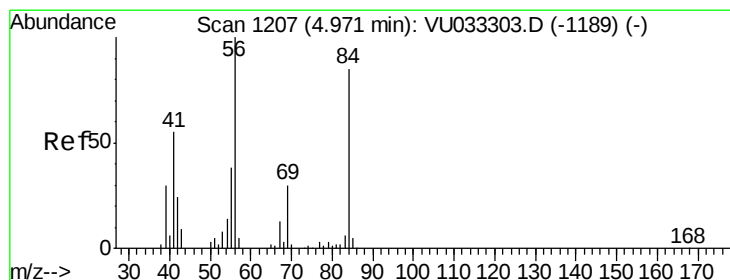
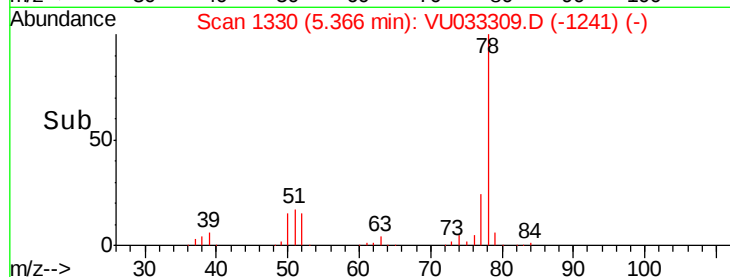
500

0

5.35

5.40

Time-->



#29

Cyclohexane

Concen: 14.121 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

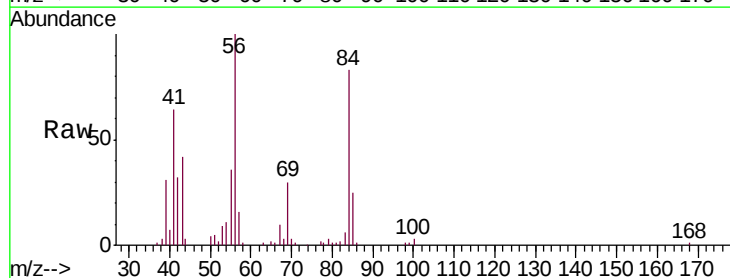
Tgt Ion: 56 Resp: 51950

Ion Ratio Lower Upper

56 100

69 30.0 24.7 37.1

84 82.9 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VU033303.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU033303.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU033303.D (-1189) (-)

30000

20000

10000

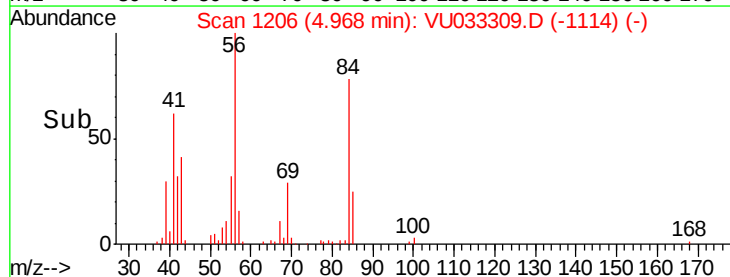
0

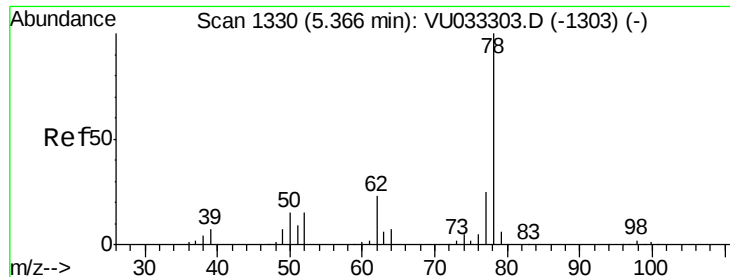
4.90

4.95

5.00

Time-->





#33

Benzene

Concen: 47.498 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

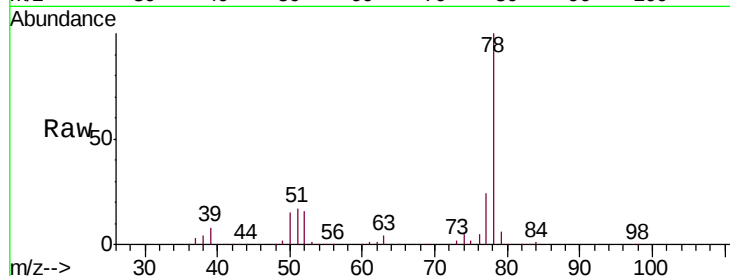
Instrument :

MSVOA_U

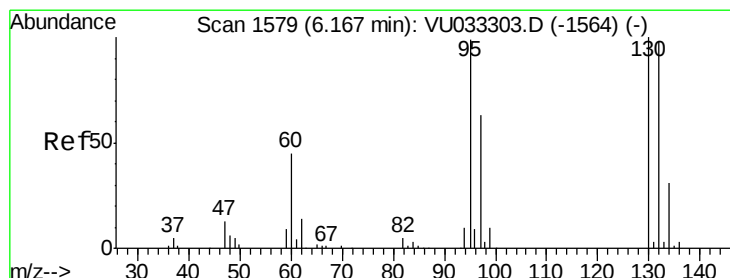
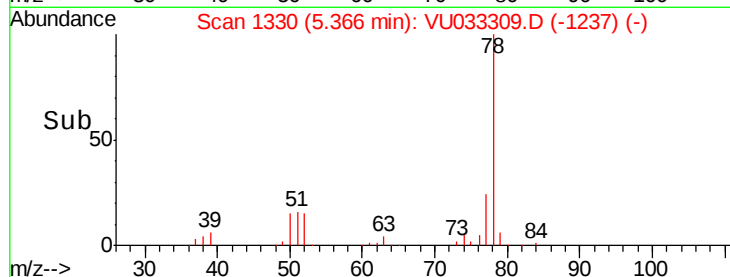
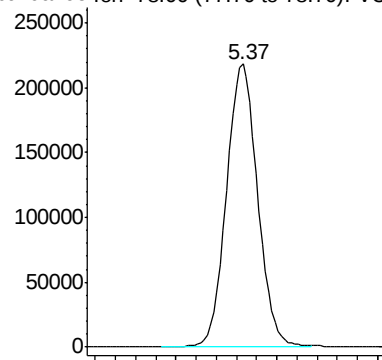
ClientSampleId :

GAMR0MSD

Tgt Ion: 78 Resp: 467670



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 47.236 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Tgt Ion: 95 Resp: 121633

Ion	Ratio	Lower	Upper
95	100		
97	63.8	43.8	81.4
132	97.9	65.5	121.6
130	102.0	69.7	129.5

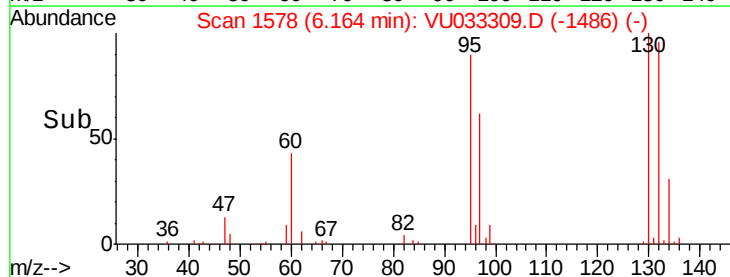
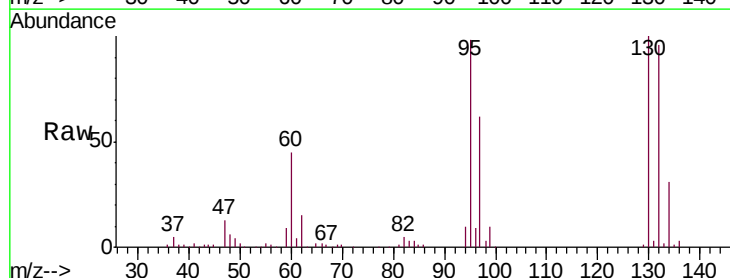
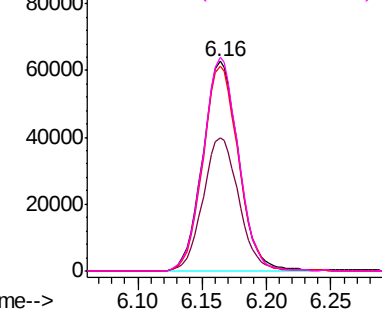
95	100
97	63.8
132	97.9
130	102.0

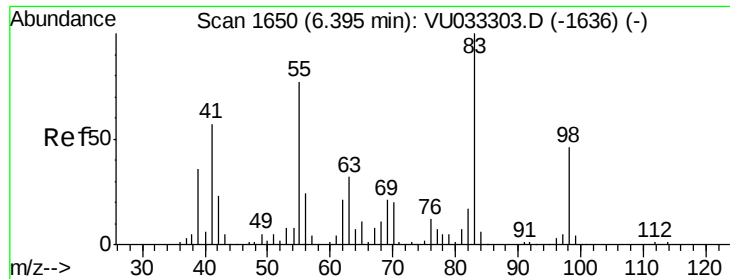
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

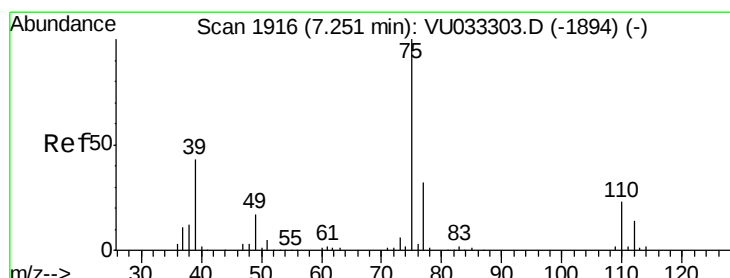
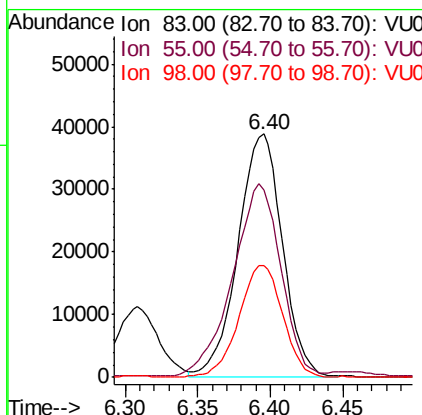
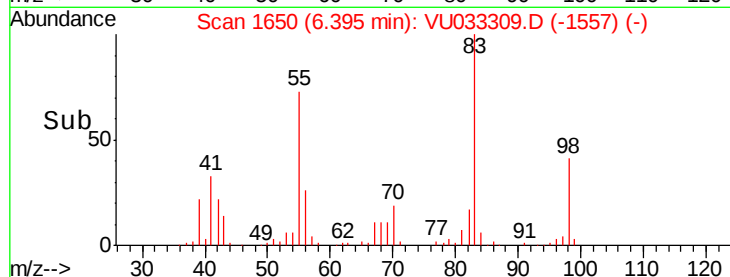
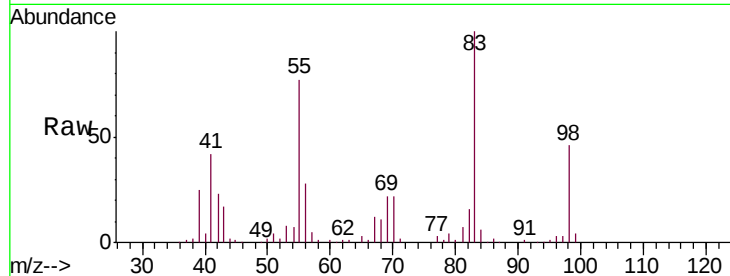




#35
Methylcyclohexane
Concen: 20.897 ug/L
RT: 6.40 min Scan# 1650
Delta R.T. -0.00 min
Lab File: VU033309.D
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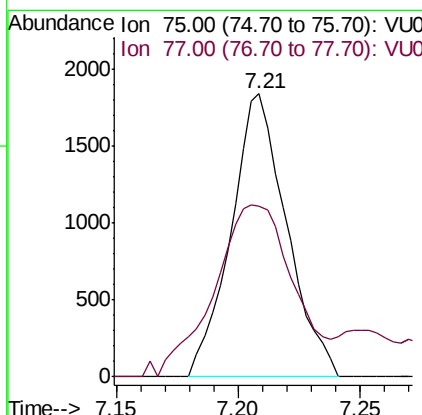
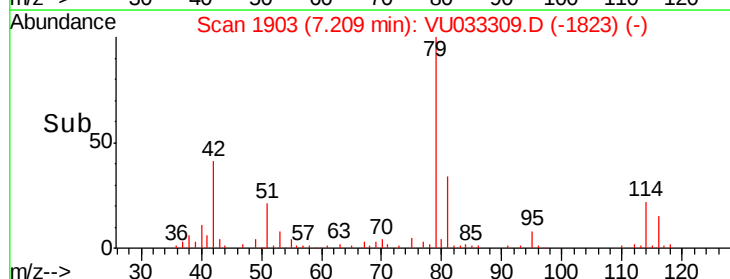
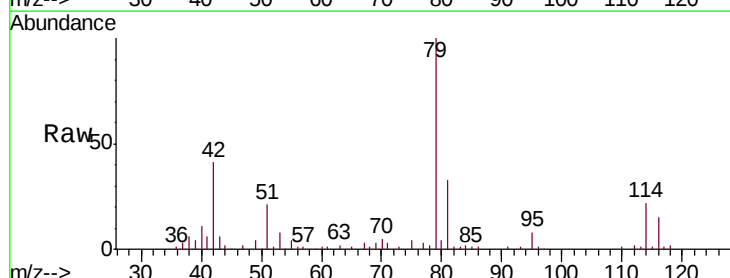
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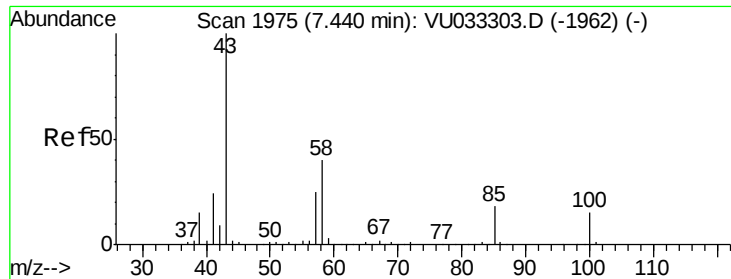
Tgt Ion: 83 Resp: 82427
Ion Ratio Lower Upper
83 100
55 86.0 60.5 90.7
98 45.6 37.4 56.0



#39
cis-1,3-Dichloropropene
Concen: 0.709 ug/L
RT: 7.21 min Scan# 1903
Delta R.T. -0.04 min
Lab File: VU033309.D
Acq: 18 Jul 2019 11:20

Tgt Ion: 75 Resp: 2903
Ion Ratio Lower Upper
75 100
77 60.2 23.1 42.9#

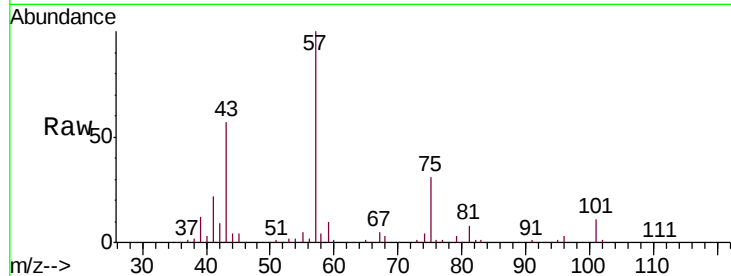




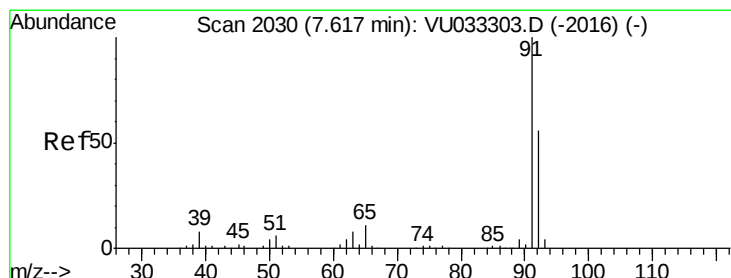
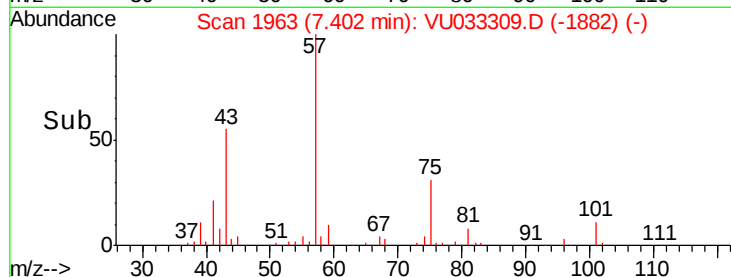
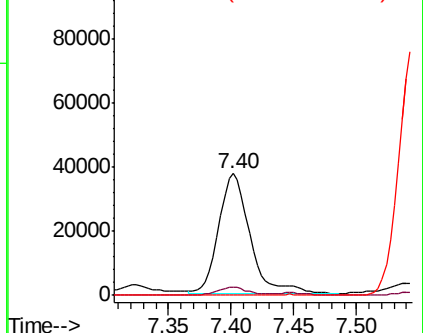
#40
4-Methyl-2-pentanone
Concen: 18.116 ug/L
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU033309.D
Acq: 18 Jul 2019 11:20

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MSD

Tgt Ion: 43 Resp: 64893
Ion Ratio Lower Upper
43 100
58 6.6 33.3 49.9#
100 0.0 12.1 18.1#

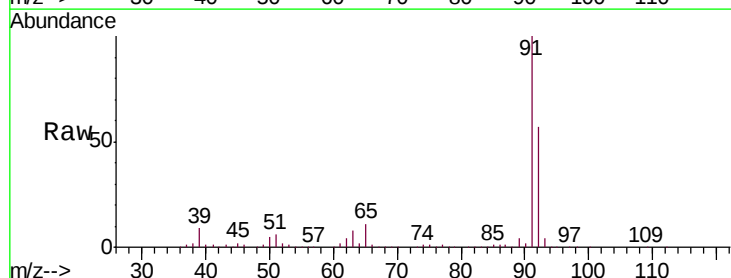


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

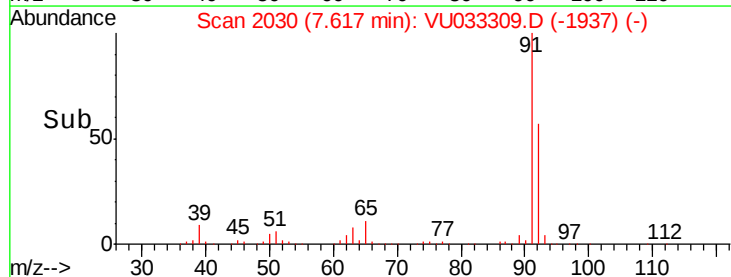
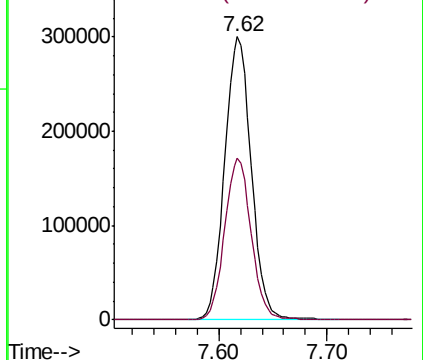


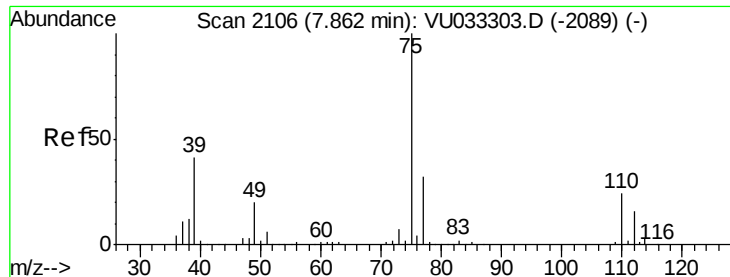
#42
Toluene
Concen: 48.651 ug/L
RT: 7.62 min Scan# 2030
Delta R.T. -0.00 min
Lab File: VU033309.D
Acq: 18 Jul 2019 11:20

Tgt Ion: 91 Resp: 516434
Ion Ratio Lower Upper
91 100
92 57.0 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU0
Ion 92.00 (91.70 to 92.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.612 ug/L

RT: 7.84 min Scan# 2098

Delta R.T. -0.03 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Instrument :

MSVOA_U

ClientSampleId :

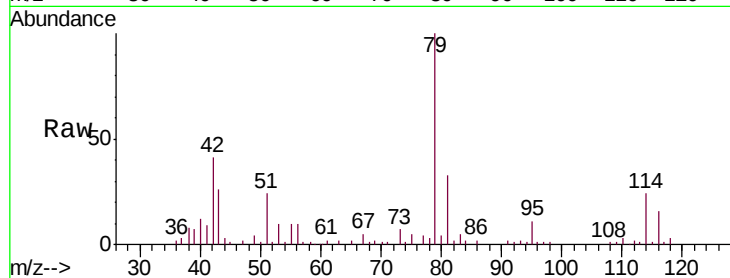
GAMR0MSD

Tgt Ion: 75 Resp: 2259

Ion Ratio Lower Upper

75 100

77 77.3 22.4 41.6#



Abundance Ion 75.00 (74.70 to 75.70): VU033303.D (-2089) (-)

Ion 77.00 (76.70 to 77.70): VU033303.D (-2089) (-)

7.84

1500

1000

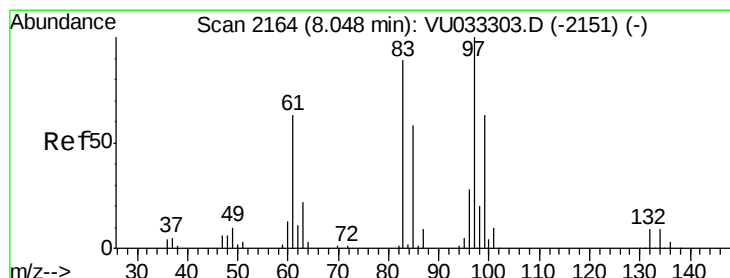
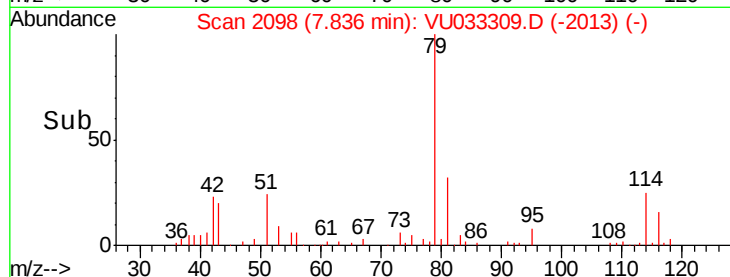
500

0

7.80

7.85

Time-->



#45

1,1,2-Trichloroethane

Concen: 2.789 ug/L

RT: 8.03 min Scan# 2158

Delta R.T. -0.02 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Tgt Ion: 97 Resp: 7044

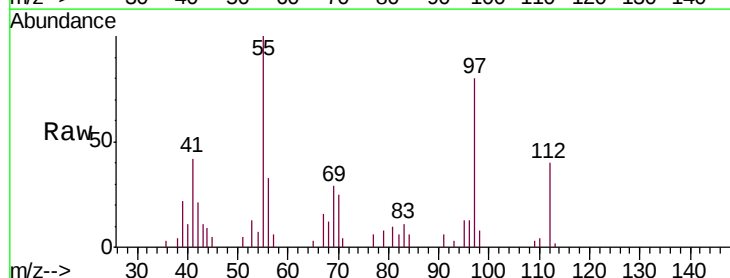
Ion Ratio Lower Upper

97 100

99 0.0 43.0 79.8#

83 14.0 61.5 114.3#

85 0.0 38.8 72.0#



Abundance Ion 97.00 (96.70 to 97.70): VU033303.D (-2151) (-)

Ion 99.00 (98.70 to 99.70): VU033303.D (-2151) (-)

Ion 83.00 (82.70 to 83.70): VU033303.D (-2151) (-)

Ion 85.00 (84.70 to 85.70): VU033303.D (-2151) (-)

5000

4000

3000

2000

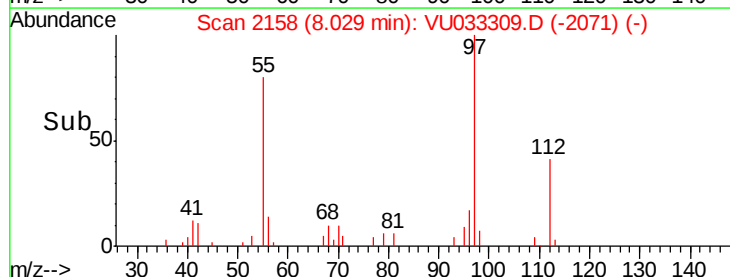
1000

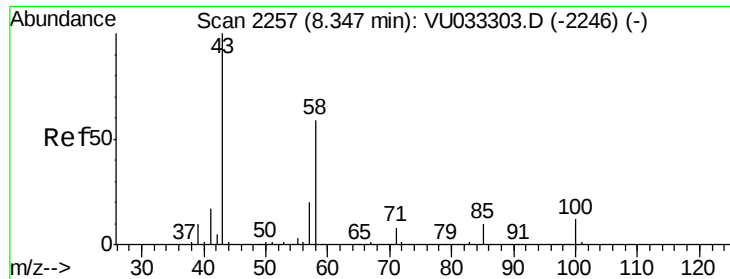
0

8.00

8.05

Time-->

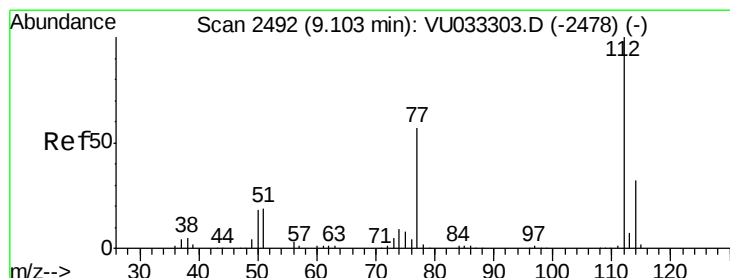
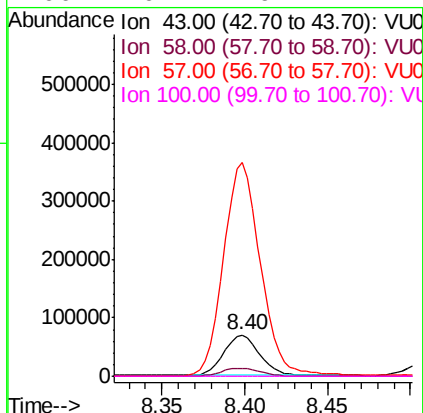
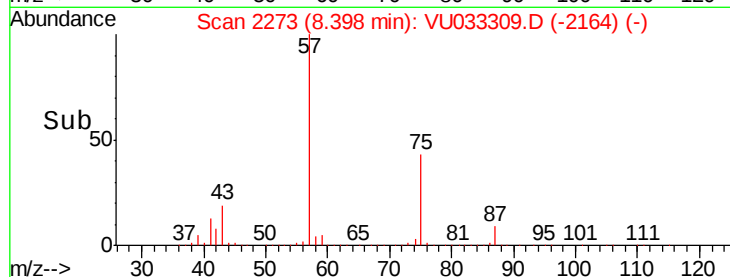
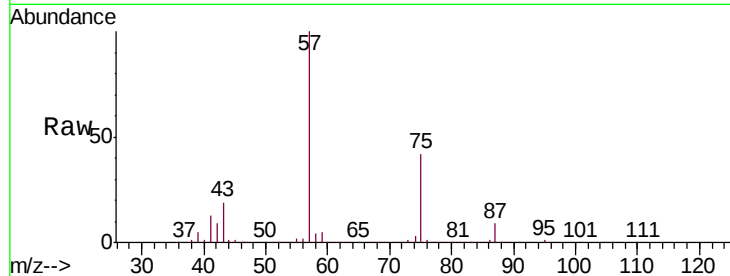




#48
2-Hexanone
Concen: 35.452 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU033309.D
Acq: 18 Jul 2019 11:20

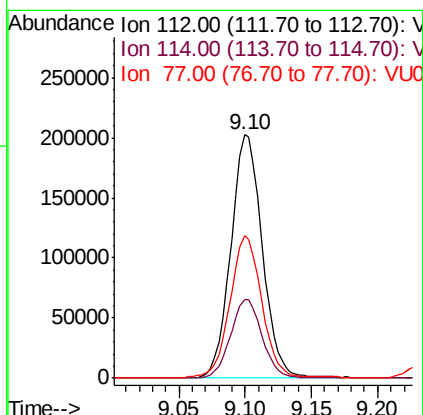
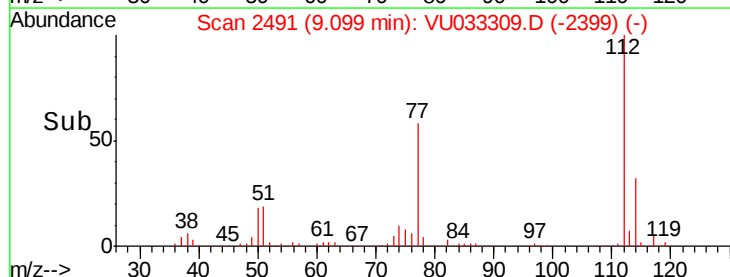
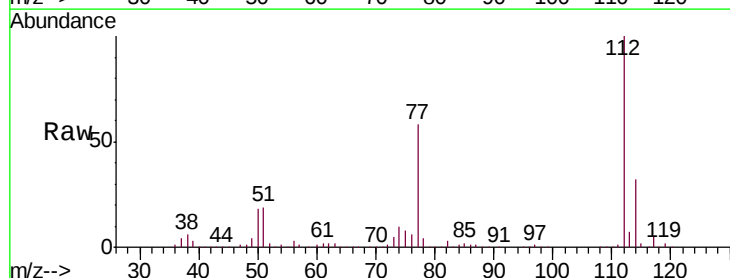
Instrument :
MSVOA_U
ClientSampleId :
GAMR0MSD

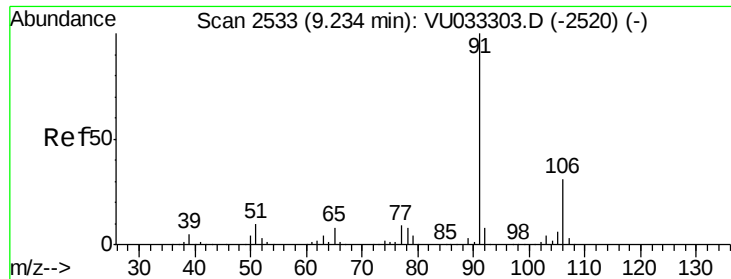
Tgt Ion: 43 Resp: 103458
Ion Ratio Lower Upper
43 100
58 21.1 46.1 69.1#
57 550.7 15.8 23.8#
100 0.2 9.4 14.2#



#51
Chlorobenzene
Concen: 48.309 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033309.D
Acq: 18 Jul 2019 11:20

Tgt Ion: 112 Resp: 334712
Ion Ratio Lower Upper
112 100
114 32.3 22.3 41.3
77 58.3 47.2 70.8





#52

Ethylbenzene

Concen: 14.517 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Instrument :

MSVOA_U

ClientSampleId :

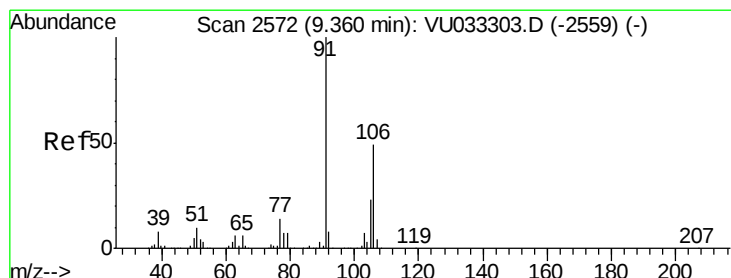
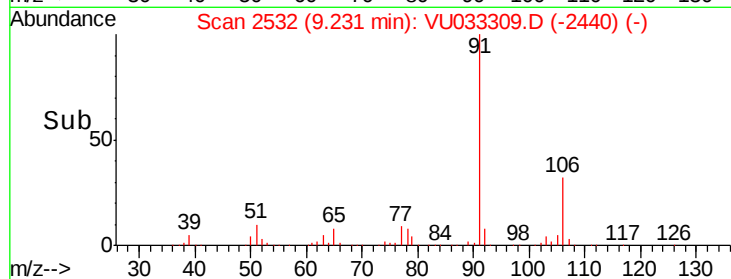
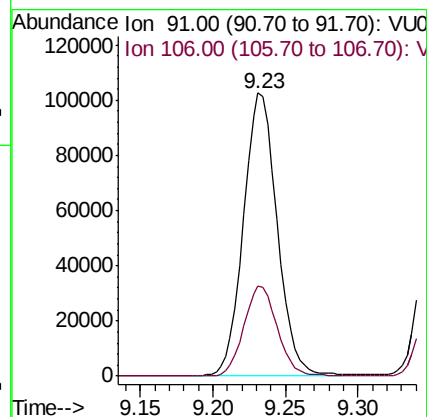
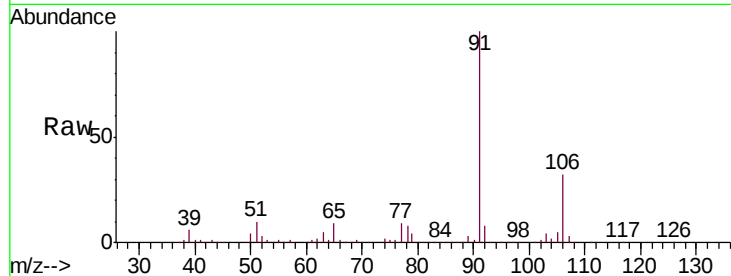
GAMR0MSD

Tgt Ion: 91 Resp: 164900

Ion Ratio Lower Upper

91 100

106 31.7 22.2 41.2



#53

m,p-Xylene

Concen: 23.398 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. -0.00 min

Lab File: VU033309.D

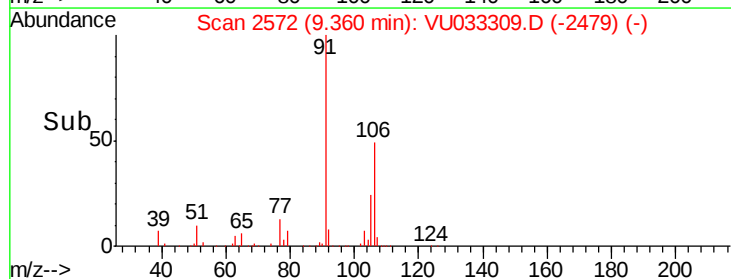
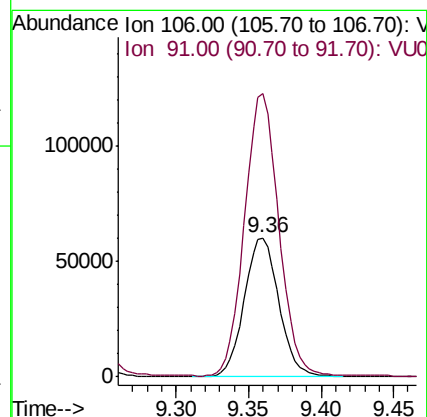
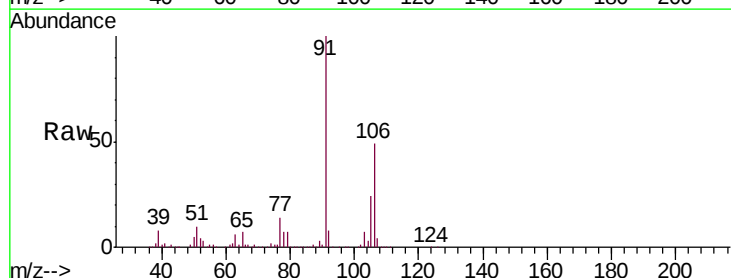
Acq: 18 Jul 2019 11:20

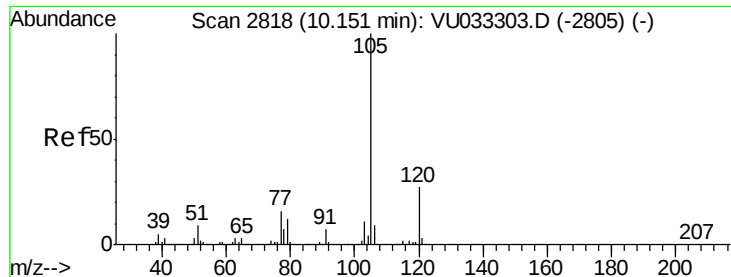
Tgt Ion: 106 Resp: 100669

Ion Ratio Lower Upper

106 100

91 203.2 141.3 262.3





#56

Isopropylbenzene

Concen: 5.260 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MSD

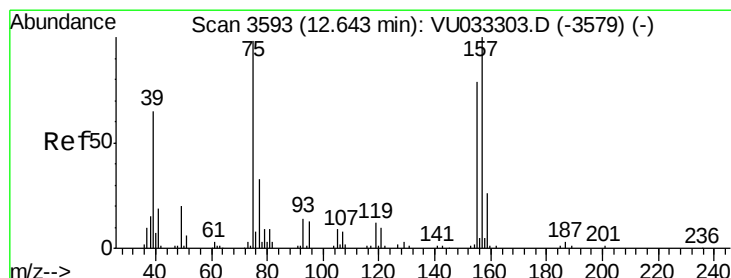
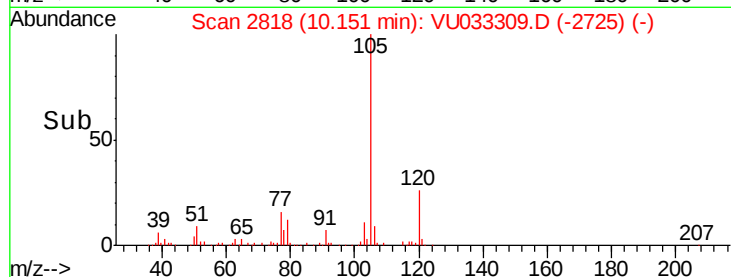
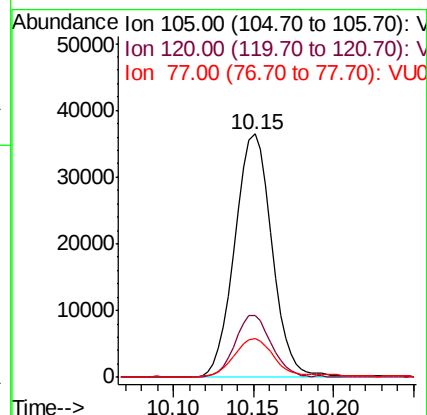
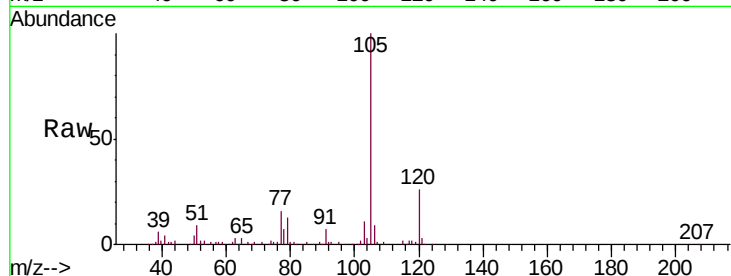
Tgt Ion:105 Resp: 57826

Ion Ratio Lower Upper

105 100

120 24.9 21.2 31.8

77 16.0 12.9 19.3



#66

1,2-Dibromo-3-chloropropane

Concen: 1.060 ug/L

RT: 12.69 min Scan# 3607

Delta R.T. 0.04 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

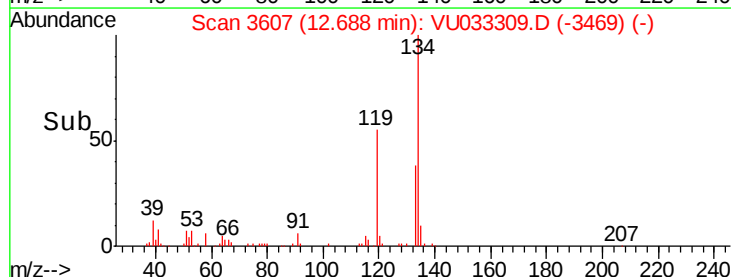
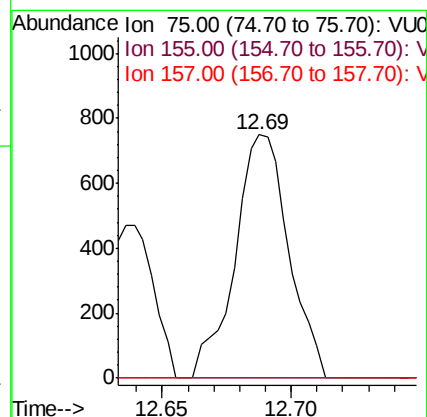
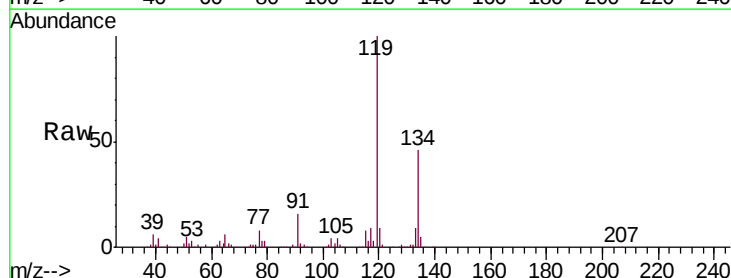
Tgt Ion: 75 Resp: 1088

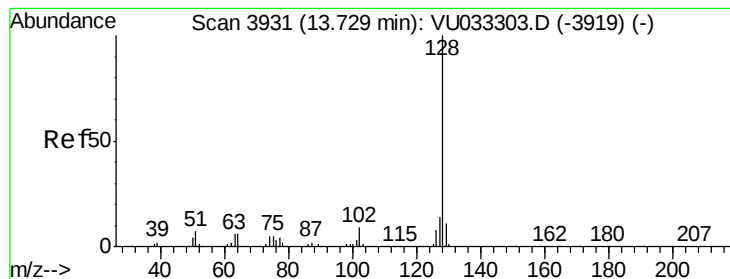
Ion Ratio Lower Upper

75 100

155 0.0 63.5 95.3#

157 0.0 84.6 127.0#





#69

Naphthalene

Concen: 8.308 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033309.D

Acq: 18 Jul 2019 11:20

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MSD

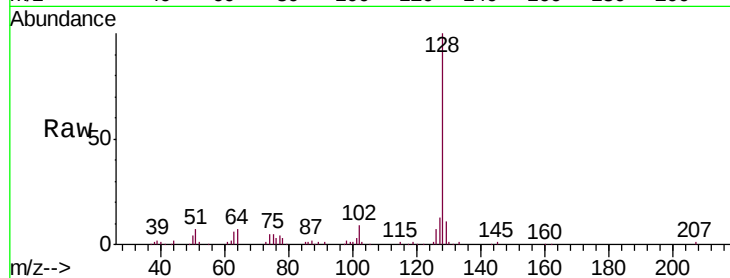
Tgt Ion:128 Resp: 88177

Ion Ratio Lower Upper

128 100

127 13.9 10.8 16.2

129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

