

Data File : VU033322.D
Acq On : 18 Jul 2019 16:23
Operator : JC/SP
Sample : K3828-03MSD
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MSD

Quant Time: Jul 19 01:48:59 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	387223	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	374701	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	195083	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	160139	54.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	109.26%
7) Chloroethane-d5	1.67	69	136352	54.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	108.90%
11) 1,1-Dichloroethene-d2	2.26	63	274045	51.54	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.08%
21) 2-Butanone-d5	4.15	46	221907	119.48	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	119.48%
24) Chloroform-d	4.62	84	248072	50.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.00%
26) 1,2-Dichloroethane-d4	5.28	65	162910	51.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.42%
32) Benzene-d6	5.32	84	531871	57.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.72%
36) 1,2-Dichloropropane-d6	6.31	67	165663	56.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	112.52%
41) Toluene-d8	7.55	98	496305	57.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	114.52%
43) trans-1,3-Dichloropropene-	7.83	79	82796	57.34	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	114.68%
47) 2-Hexanone-d5	8.29	63	168522	126.95	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	126.95%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	239471	53.73	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	107.46%
64) 1,2-Dichlorobenzene-d4	11.85	152	201699	57.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	115.96%

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	2188	0.828 ug/L #	21
12) 1,1-Dichloroethene	2.27	96	118648	45.906 ug/L	95
13) Acetone	2.31	43	25538	11.005 ug/L	99
15) Methyl Acetate	2.61	43	2509	0.828 ug/L #	86
16) Methylene chloride	2.68	84	3595	1.218 ug/L #	63
27) 1,2-Dichloroethane	5.37	62	4260	1.007 ug/L	100
29) Cyclohexane	4.97	56	56856	13.925 ug/L	97
33) Benzene	5.37	78	534648	48.928 ug/L	100
34) Trichloroethene	6.16	95	136505	47.766 ug/L	96
35) Methylcyclohexane	6.39	83	88643	20.249 ug/L	94
39) cis-1,3-Dichloropropene	7.21	75	5361	1.180 ug/L #	51
40) 4-Methyl-2-pentanone	7.40	43	74322	18.695 ug/L #	50
42) Toluene	7.62	91	590020	50.083 ug/L	100
44) trans-1,3-Dichloropropene	7.83	75	3738	0.912 ug/L #	49
45) 1,1,2-Trichloroethane	8.03	97	8128	2.900 ug/L #	19
51) Chlorobenzene	9.10	112	378079	49.168 ug/L	98
52) Ethylbenzene	9.23	91	188167	14.927 ug/L	99

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

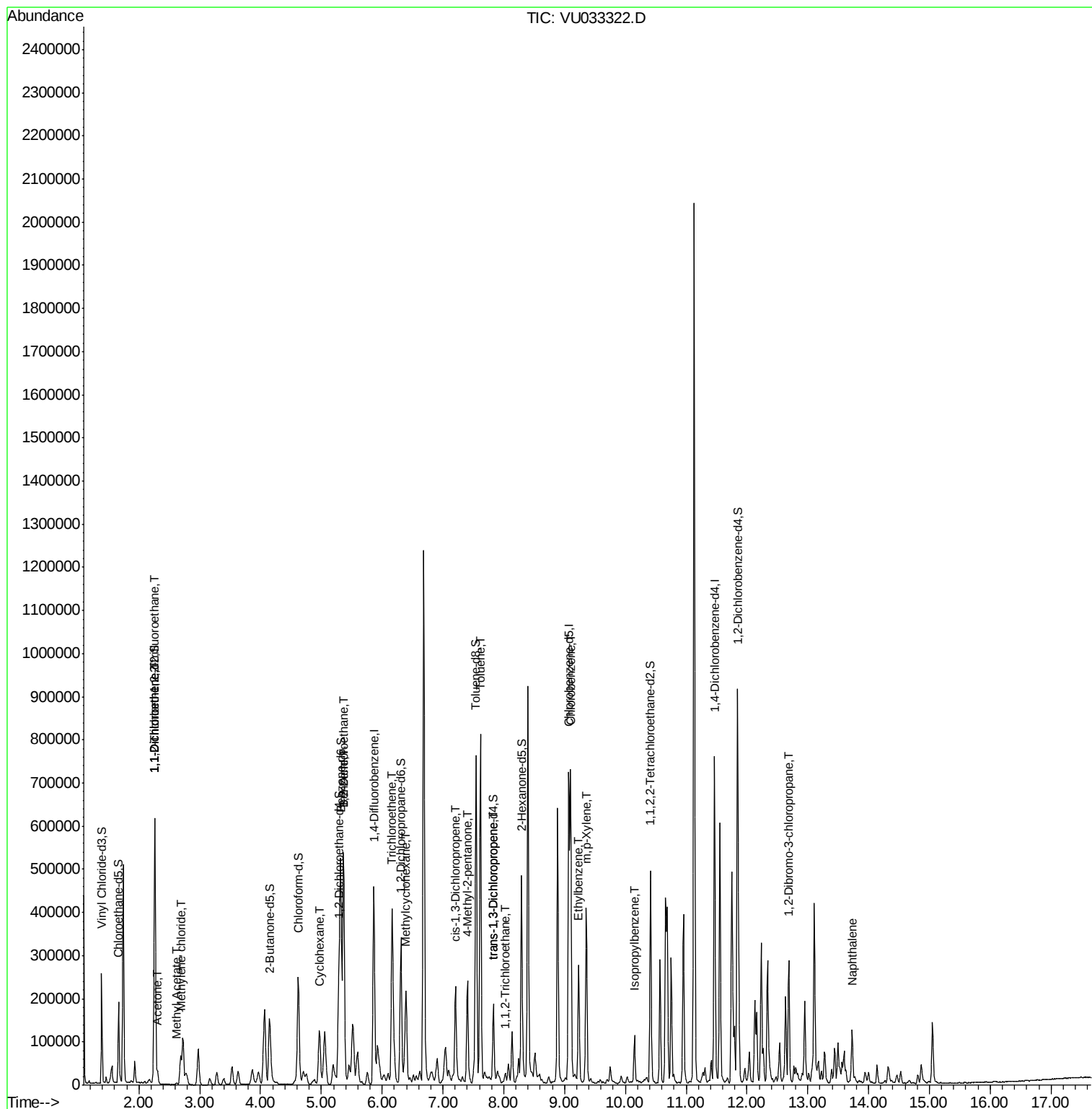
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.36	106	114138	23.904	ug/L	99
56) Isopropylbenzene	10.15	105	67504	5.533	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.69	75	1215	1.034	ug/L #	3
69) Naphthalene	13.73	128	104190	8.572	ug/L	97

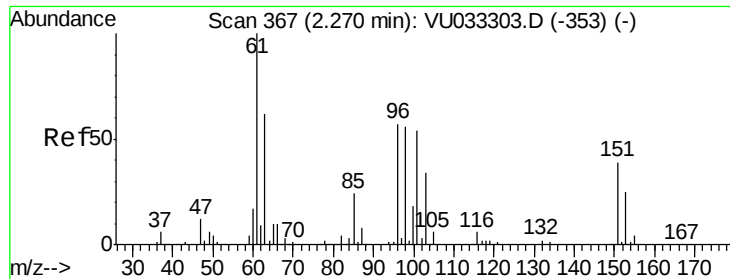
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.828 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MSD

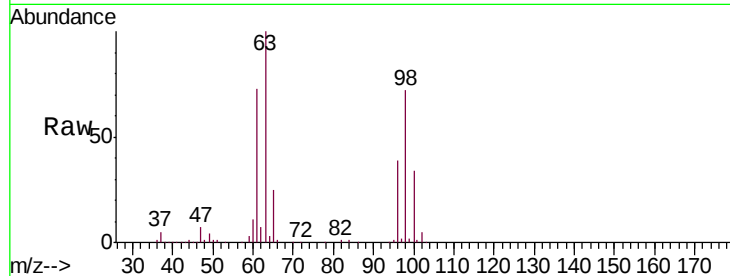
Tgt Ion: 101 Resp: 2188

Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

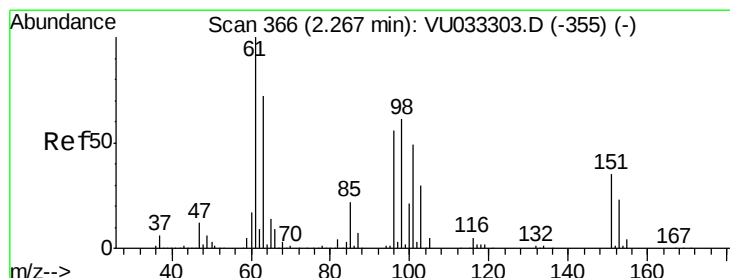
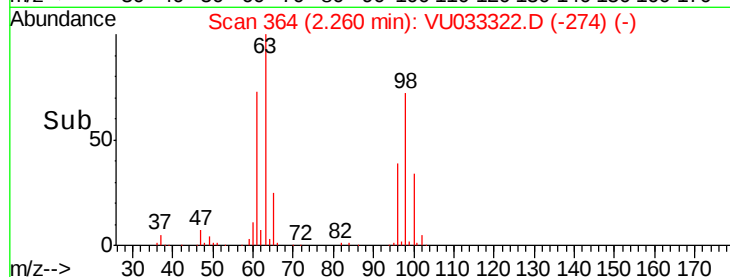
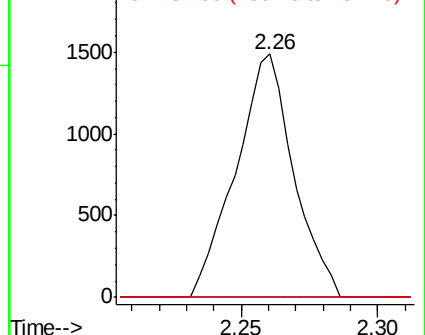
151 0.0 56.7 85.1#



Abundance Ion 101.00 (100.70 to 101.70): V

2000 Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.906 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

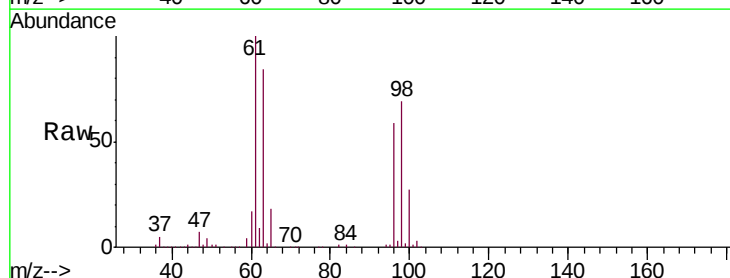
Tgt Ion: 96 Resp: 118648

Ion Ratio Lower Upper

96 100

61 170.8 126.1 234.1

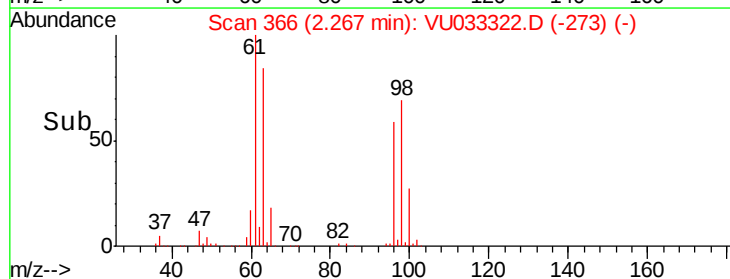
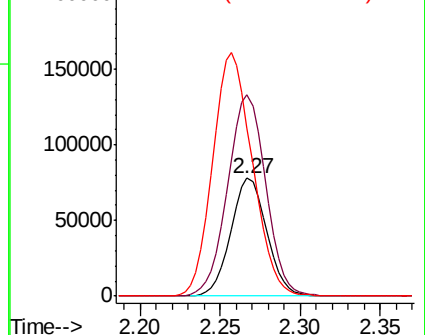
63 142.8 96.8 179.8

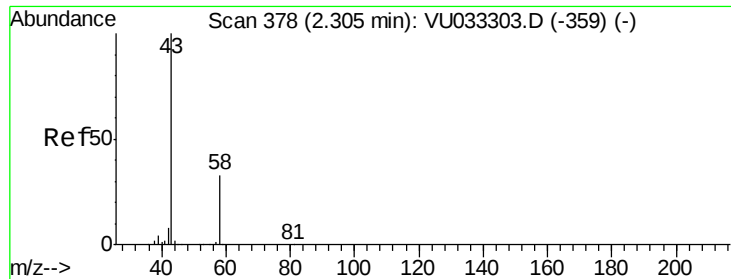


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 11.005 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

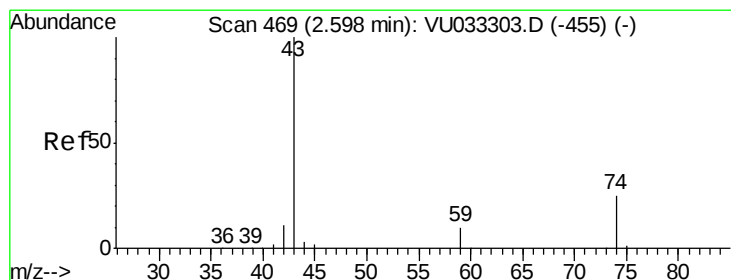
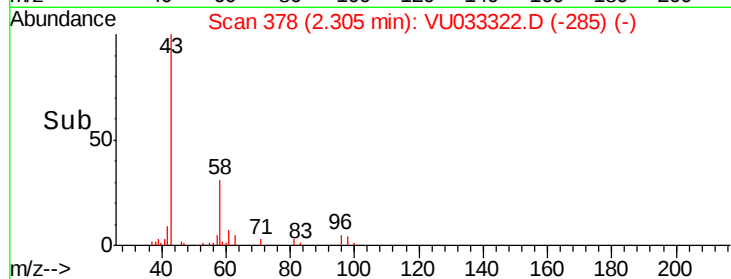
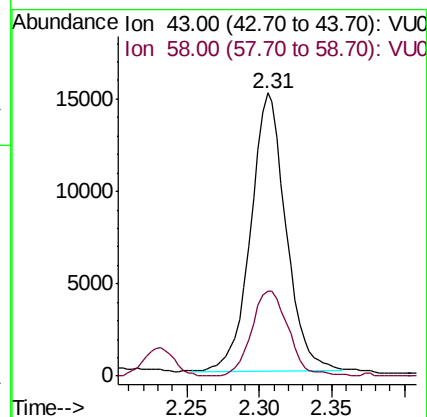
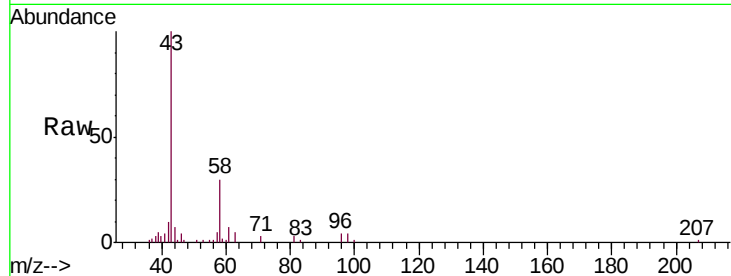
GAMR0MSD

Tgt Ion: 43 Resp: 25538

Ion Ratio Lower Upper

43 100

58 32.2 0.0 65.4



#15

Methyl Acetate

Concen: 0.828 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU033322.D

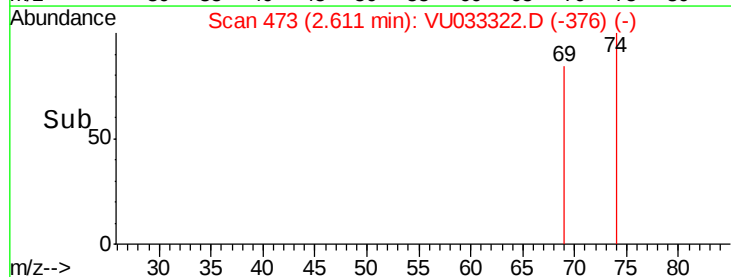
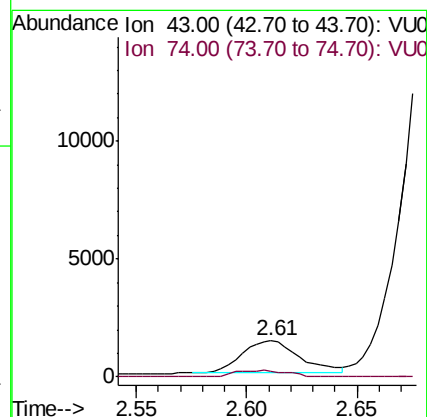
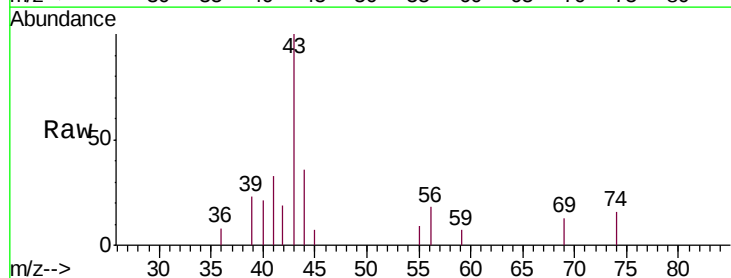
Acq: 18 Jul 2019 16:23

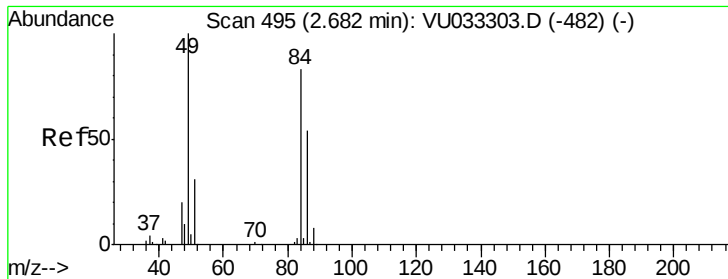
Tgt Ion: 43 Resp: 2509

Ion Ratio Lower Upper

43 100

74 17.8 19.9 29.9#

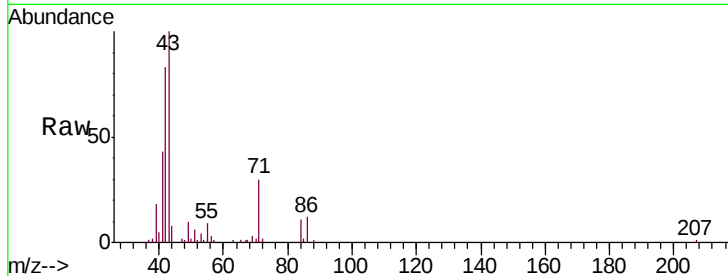




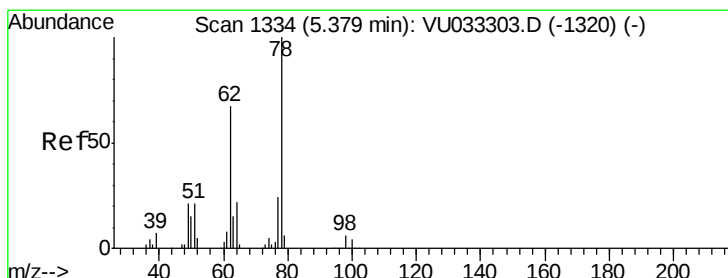
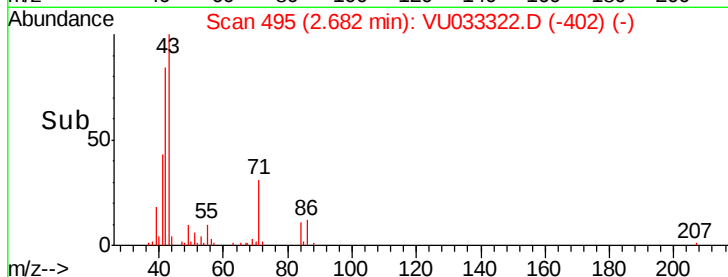
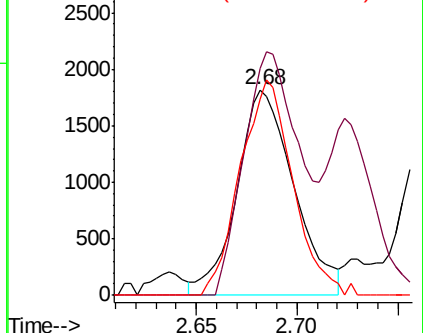
#16
Methylene chloride
Concen: 1.218 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033322.D
Acq: 18 Jul 2019 16:23

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MSD

Tgt Ion: 84 Resp: 3595
Ion Ratio Lower Upper
84 100
86 110.4 45.7 84.9#
49 95.4 87.7 162.9

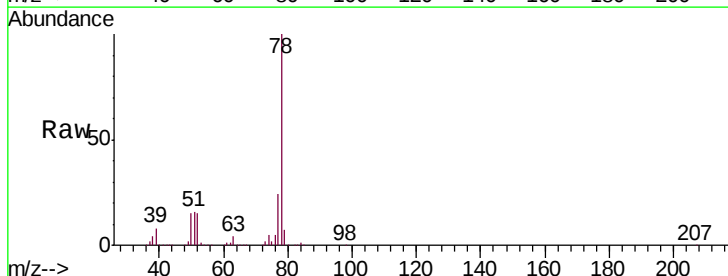


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0

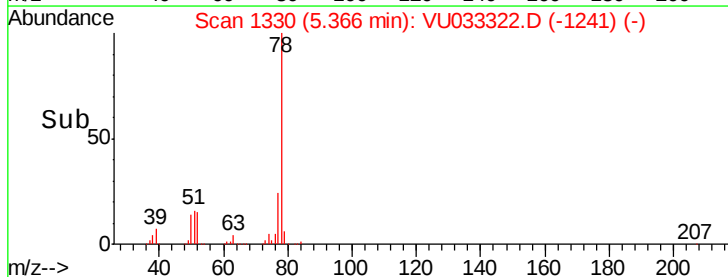
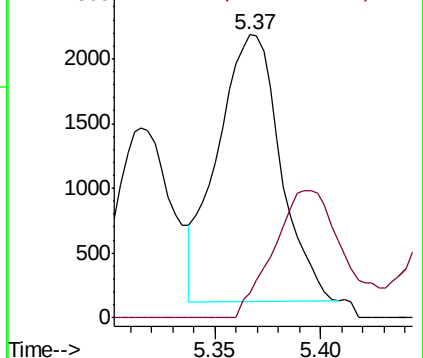


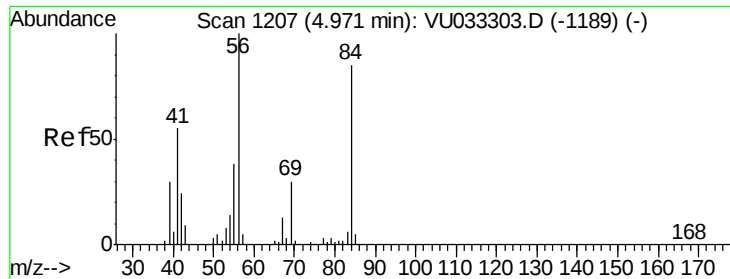
#27
1,2-Dichloroethane
Concen: 1.007 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.01 min
Lab File: VU033322.D
Acq: 18 Jul 2019 16:23

Tgt Ion: 62 Resp: 4260
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.6



Abundance Ion 62.00 (61.70 to 62.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

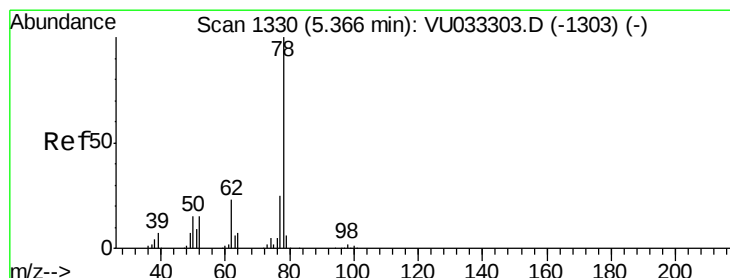
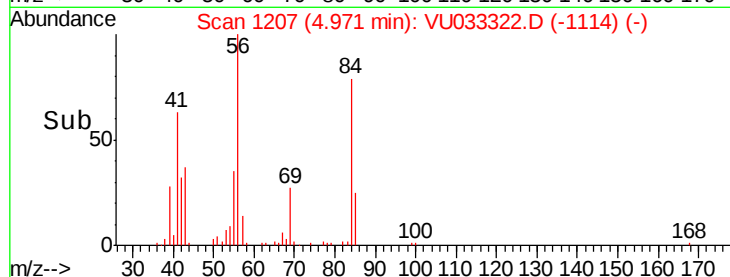
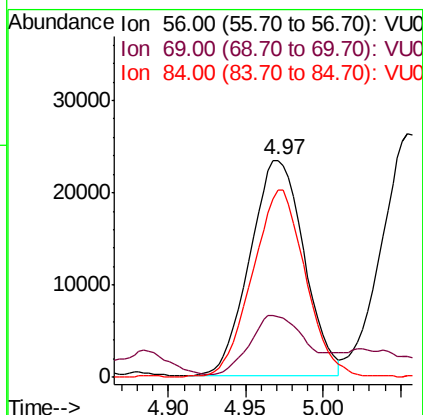
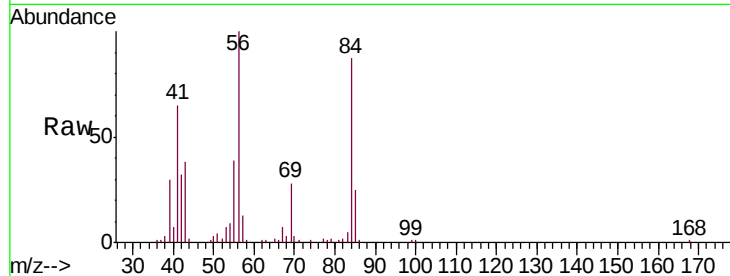




#29
Cyclohexane
Concen: 13.925 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033322.D
Acq: 18 Jul 2019 16:23

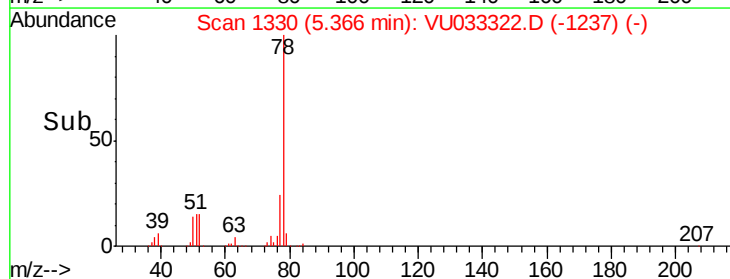
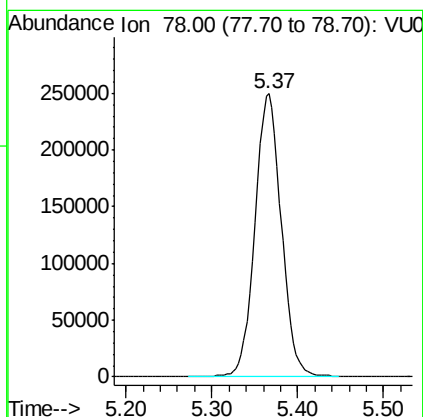
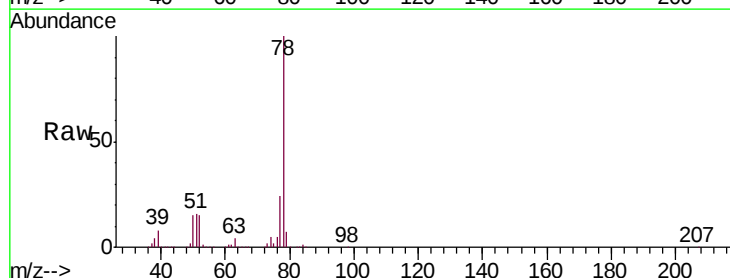
Instrument :
MSVOA_U
ClientSampleId :
GAMR0MSD

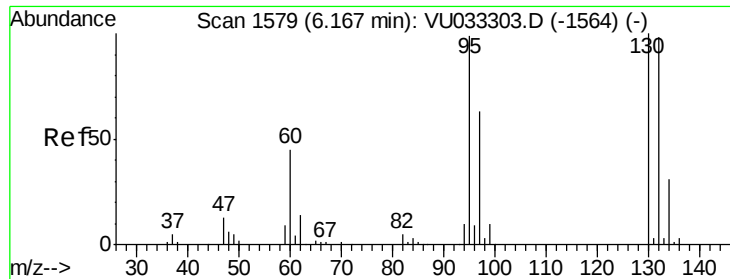
Tgt Ion: 56 Resp: 56856
Ion Ratio Lower Upper
56 100
69 27.6 24.7 37.1
84 86.0 70.2 105.2



#33
Benzene
Concen: 48.928 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033322.D
Acq: 18 Jul 2019 16:23

Tgt Ion: 78 Resp: 534648





#34

Trichloroethene

Concen: 47.766 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MSD

Tgt Ion: 95 Resp: 136505

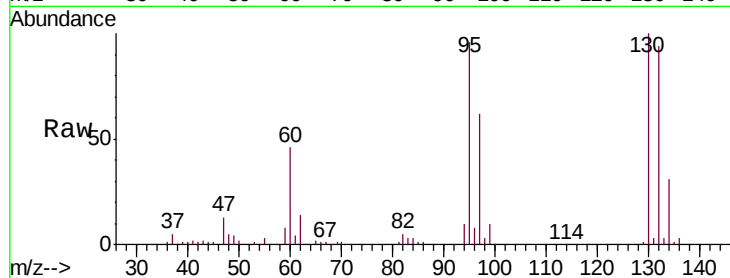
Ion Ratio Lower Upper

95 100

97 64.3 43.8 81.4

132 97.7 65.5 121.6

130 104.1 69.7 129.5

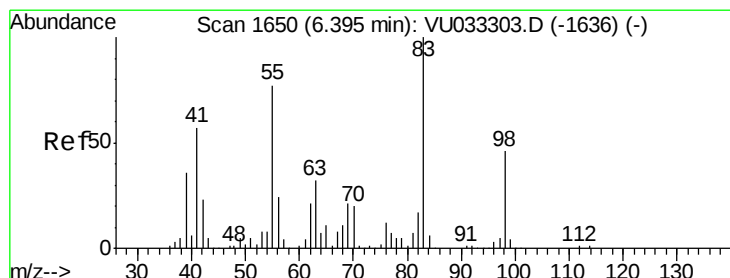
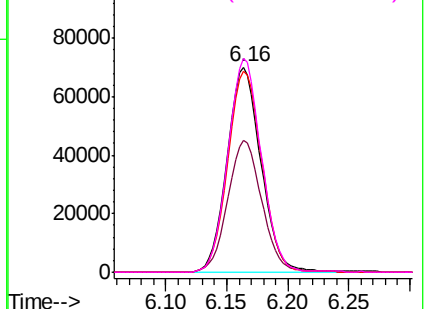
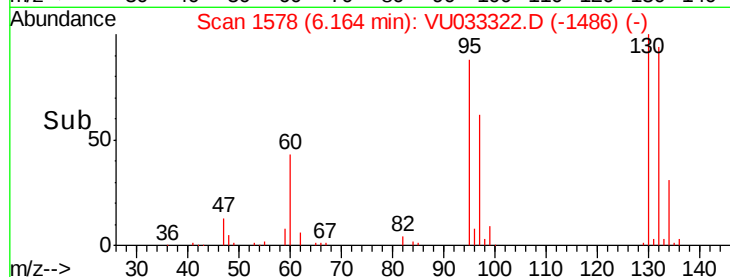


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 20.249 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

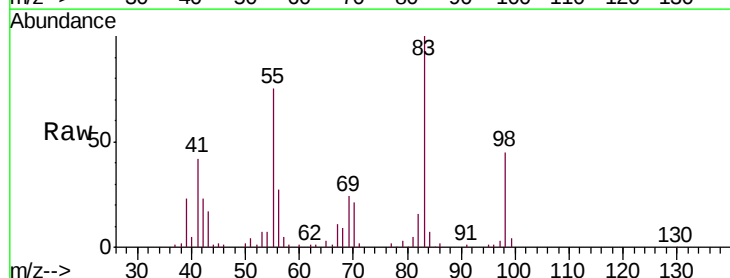
Tgt Ion: 83 Resp: 88643

Ion Ratio Lower Upper

83 100

55 83.6 60.5 90.7

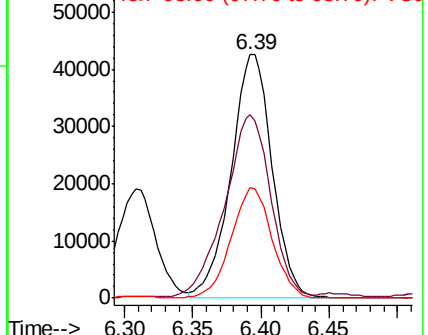
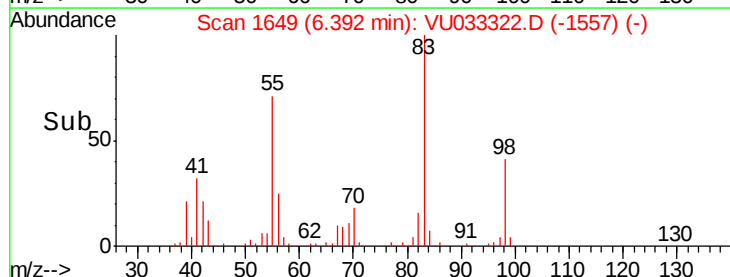
98 45.5 37.4 56.0

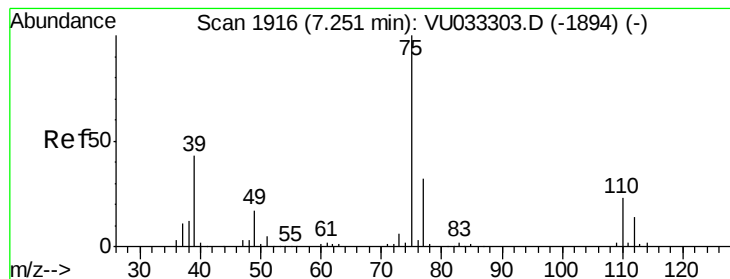


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#39

cis-1,3-Dichloropropene

Concen: 1.180 ug/L

RT: 7.21 min Scan# 1902

Delta R.T. -0.05 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

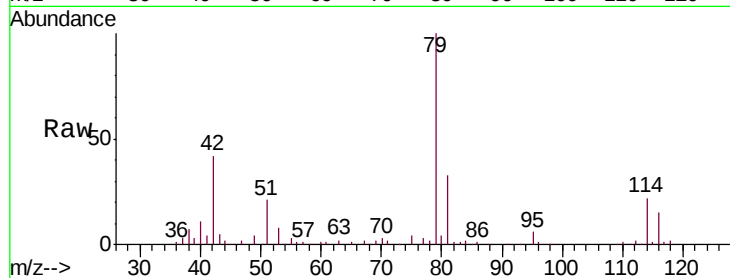
GAMR0MSD

Tgt Ion: 75 Resp: 5361

Ion Ratio Lower Upper

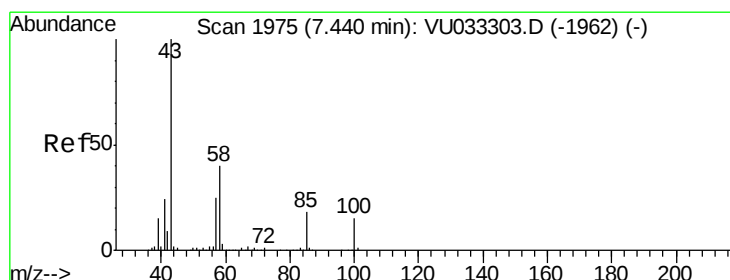
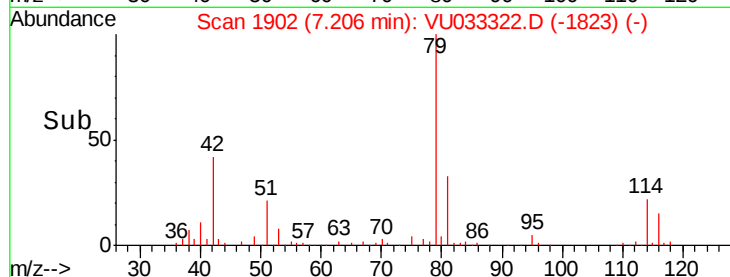
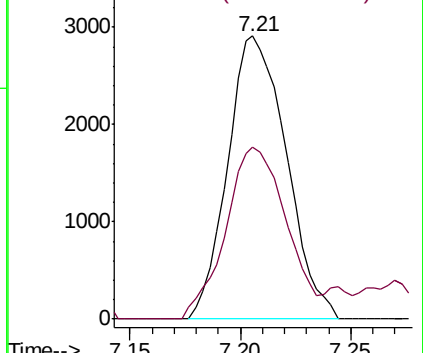
75 100

77 60.7 23.1 42.9#



Abundance Ion 75.00 (74.70 to 75.70): VU033303.D (-1894) (-)

Ion 77.00 (76.70 to 77.70): VU033303.D (-1894) (-)



#40

4-Methyl-2-pentanone

Concen: 18.695 ug/L

RT: 7.40 min Scan# 1963

Delta R.T. -0.04 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

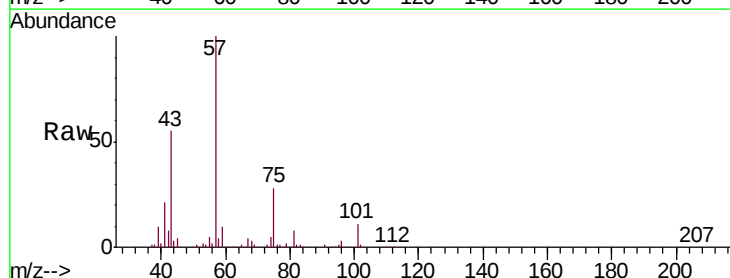
Tgt Ion: 43 Resp: 74322

Ion Ratio Lower Upper

43 100

58 6.8 33.3 49.9#

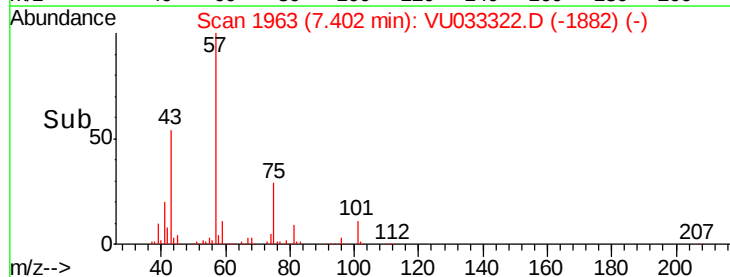
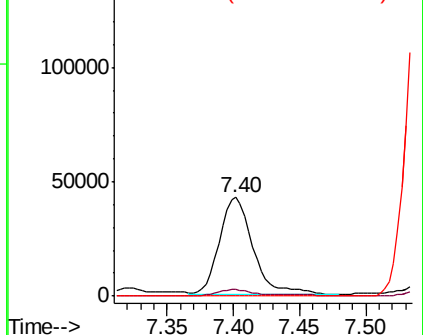
100 0.0 12.1 18.1#

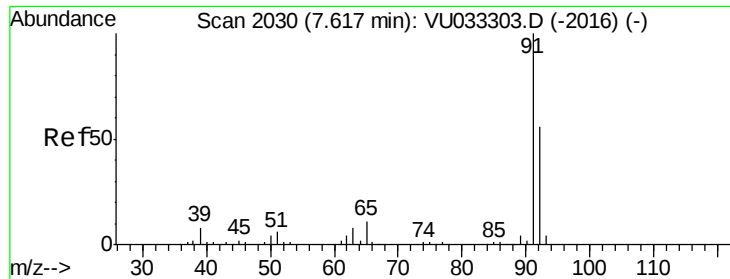


Abundance Ion 43.00 (42.70 to 43.70): VU033303.D (-1962) (-)

Ion 58.00 (57.70 to 58.70): VU033303.D (-1962) (-)

Ion 100.00 (99.70 to 100.70): VU033303.D (-1962) (-)





#42

Toluene

Concen: 50.083 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

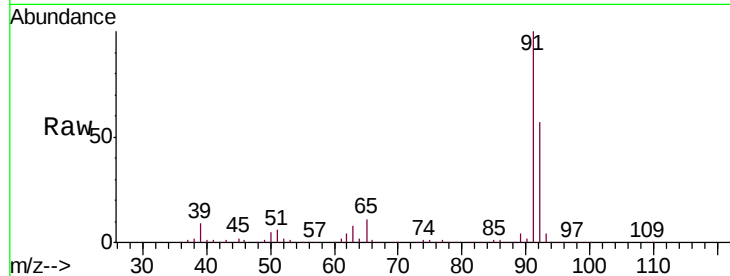
GAMR0MSD

Tgt Ion: 91 Resp: 590020

Ion Ratio Lower Upper

91 100

92 56.9 39.8 74.0



Abundance Ion 91.00 (90.70 to 91.70): VU033303.D (-2016) (-)

Ion 92.00 (91.70 to 92.70): VU033303.D (-2016) (-)

7.62

400000

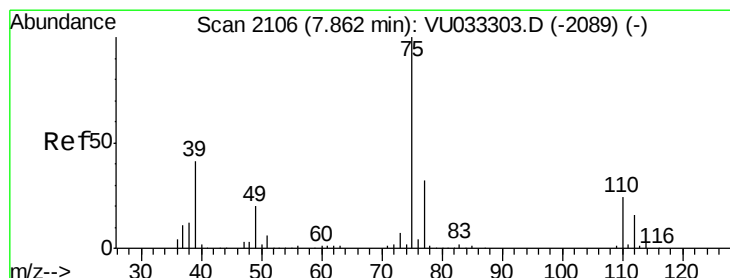
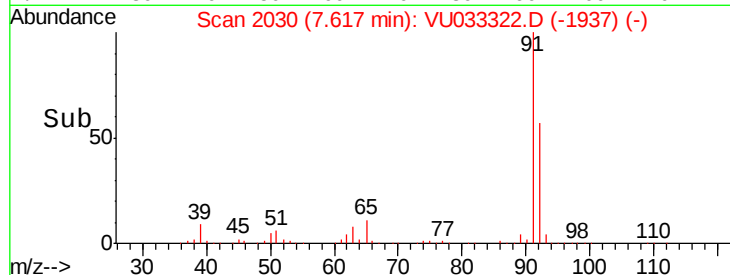
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.912 ug/L

RT: 7.83 min Scan# 2096

Delta R.T. -0.03 min

Lab File: VU033322.D

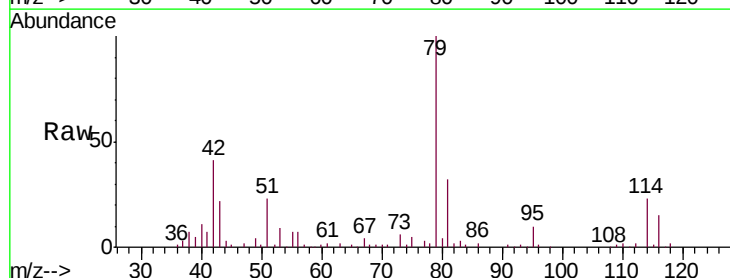
Acq: 18 Jul 2019 16:23

Tgt Ion: 75 Resp: 3738

Ion Ratio Lower Upper

75 100

77 60.3 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) (-)

7.83

2500

2000

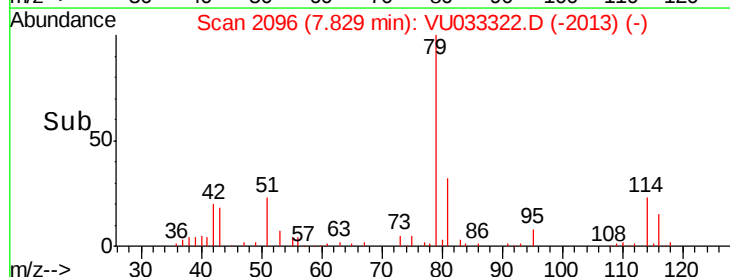
1500

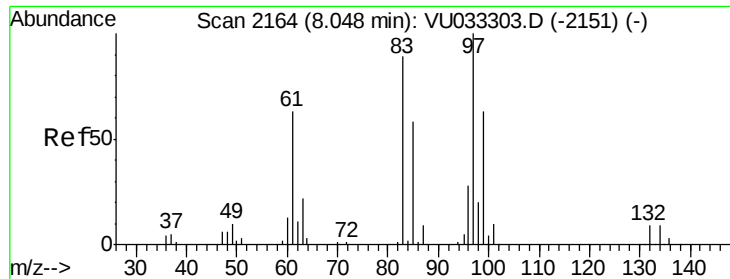
1000

500

0

Time-->

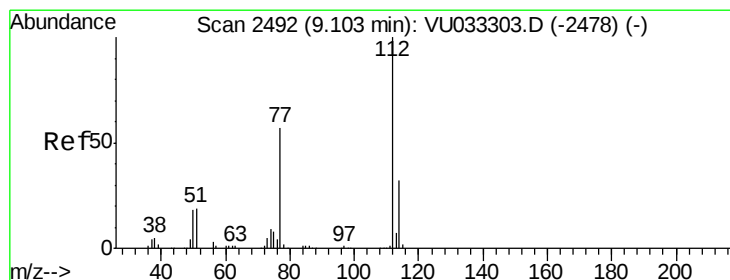
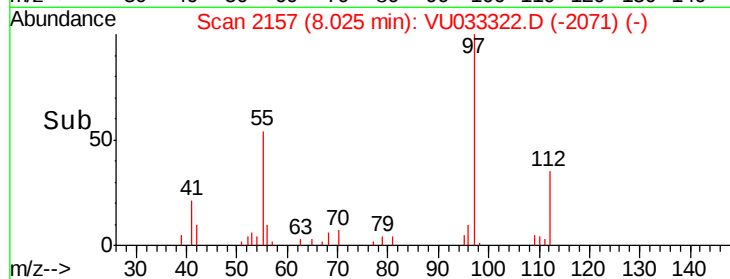
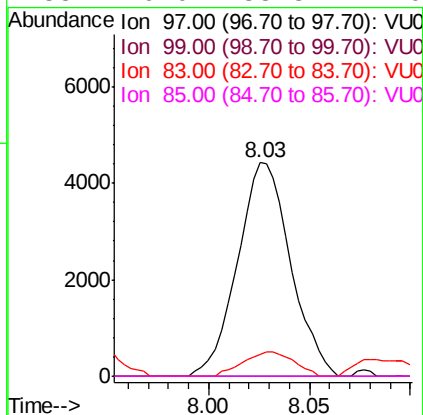
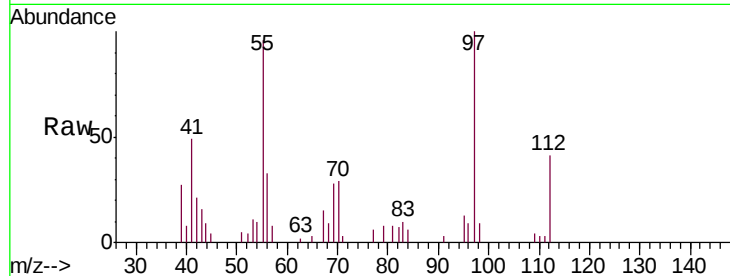




#45
 1,1,2-Trichloroethane
 Concen: 2.900 ug/L
 RT: 8.03 min Scan# 2157
 Delta R.T. -0.02 min
 Lab File: VU033322.D
 Acq: 18 Jul 2019 16:23

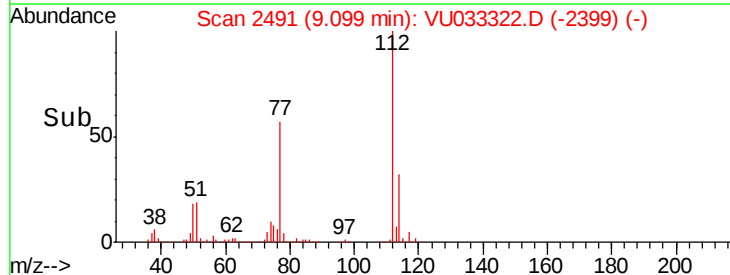
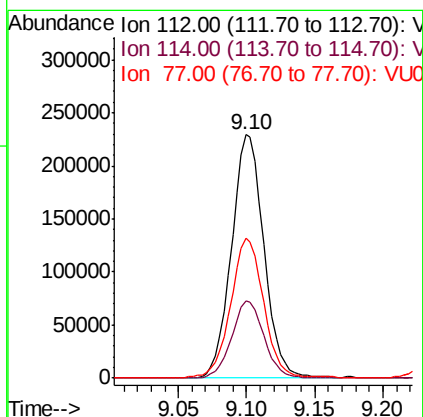
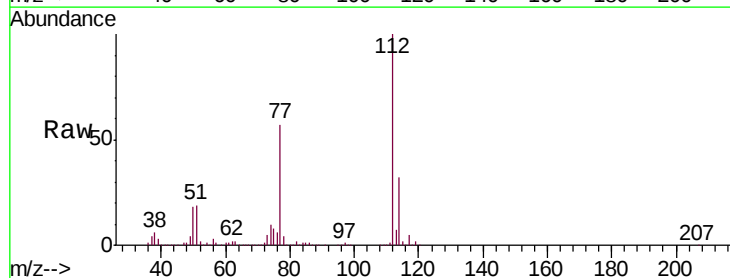
Instrument :
 MSVOA_U
 ClientSampleId :
 GAMR0MSD

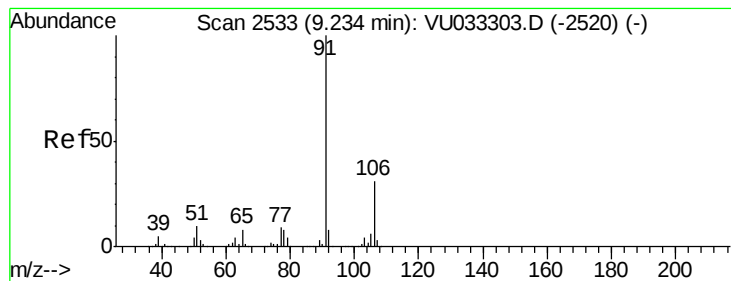
Tgt Ion: 97 Resp: 8128
 Ion Ratio Lower Upper
 97 100
 99 0.0 43.0 79.8#
 83 10.3 61.5 114.3#
 85 0.0 38.8 72.0#



#51
 Chlorobenzene
 Concen: 49.168 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. -0.00 min
 Lab File: VU033322.D
 Acq: 18 Jul 2019 16:23

Tgt Ion: 112 Resp: 378079
 Ion Ratio Lower Upper
 112 100
 114 31.5 22.3 41.3
 77 57.3 47.2 70.8





#52

Ethylbenzene

Concen: 14.927 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

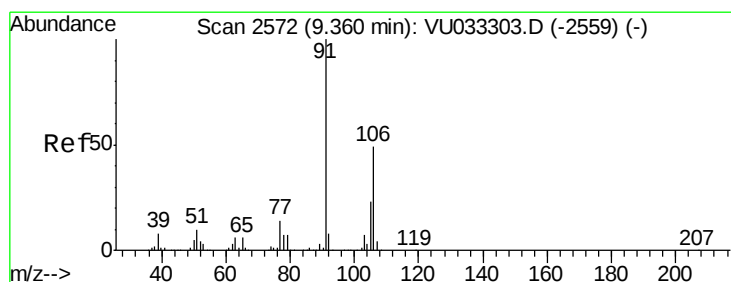
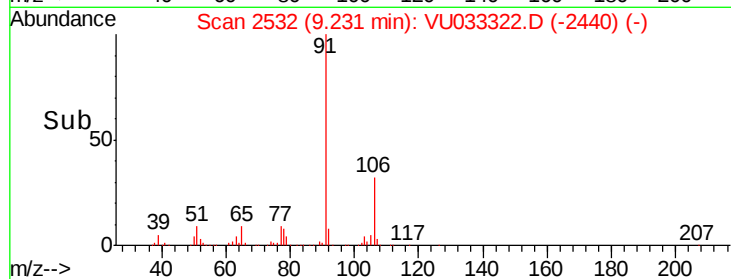
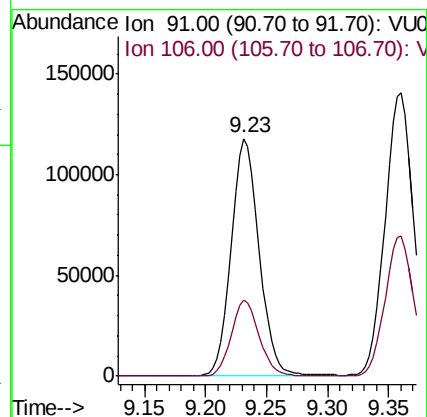
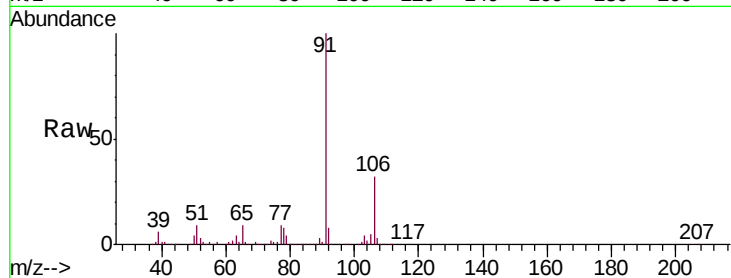
GAMR0MSD

Tgt Ion: 91 Resp: 188167

Ion Ratio Lower Upper

91 100

106 32.1 22.2 41.2



#53

m,p-Xylene

Concen: 23.904 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.00 min

Lab File: VU033322.D

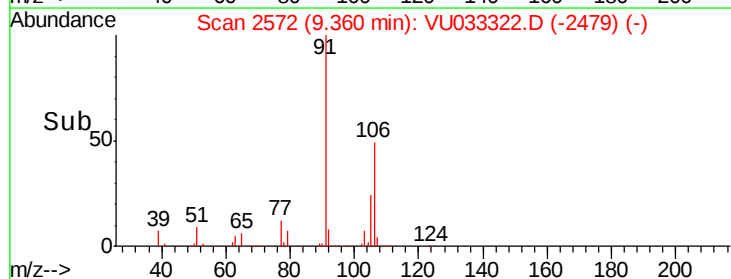
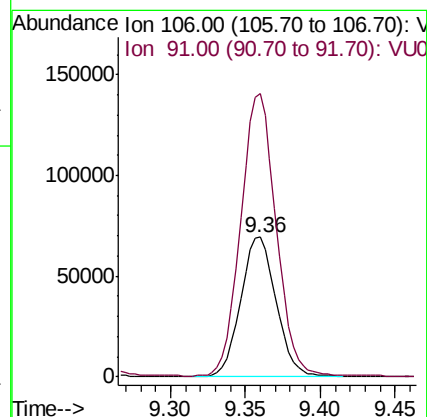
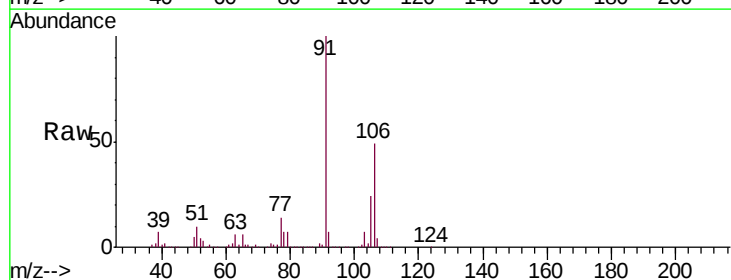
Acq: 18 Jul 2019 16:23

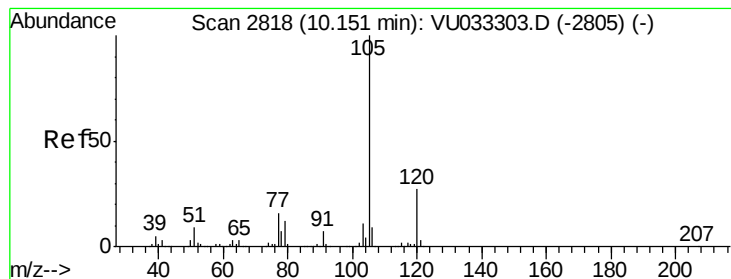
Tgt Ion: 106 Resp: 114138

Ion Ratio Lower Upper

106 100

91 203.0 141.3 262.3





#56

Isopropylbenzene

Concen: 5.533 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

Instrument :

MSVOA_U

ClientSampled :

GAMR0MSD

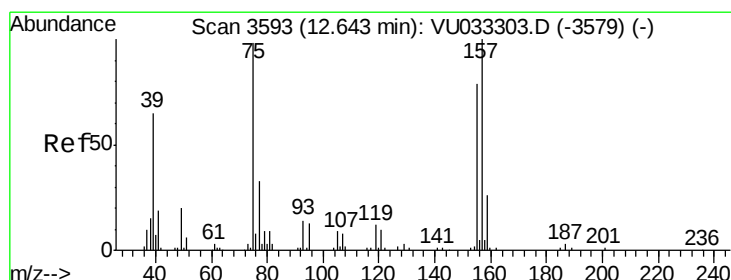
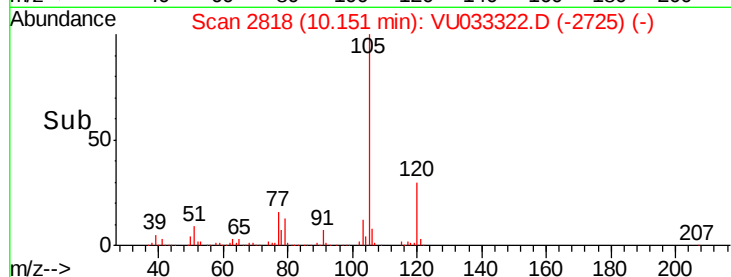
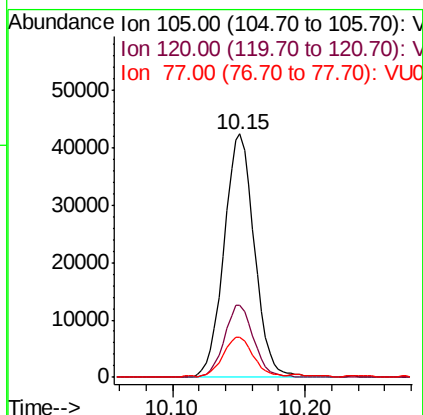
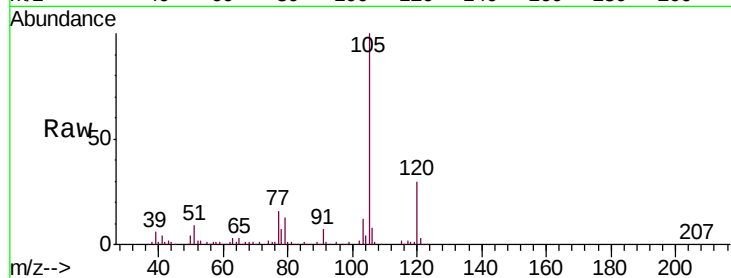
Tgt Ion:105 Resp: 67504

Ion Ratio Lower Upper

105 100

120 28.6 21.2 31.8

77 16.5 12.9 19.3



#66

1,2-Dibromo-3-chloropropane

Concen: 1.034 ug/L

RT: 12.69 min Scan# 3609

Delta R.T. 0.05 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

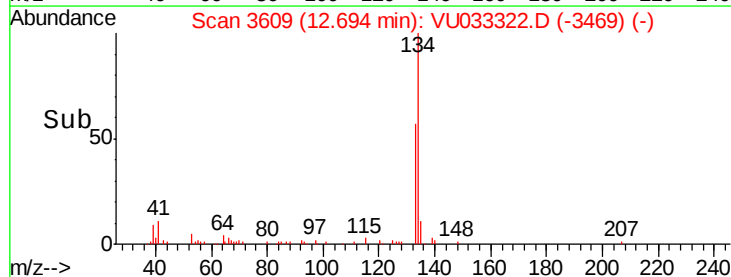
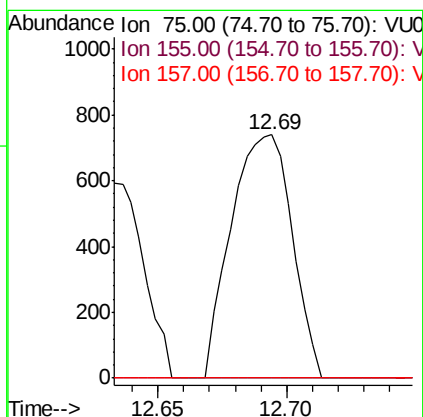
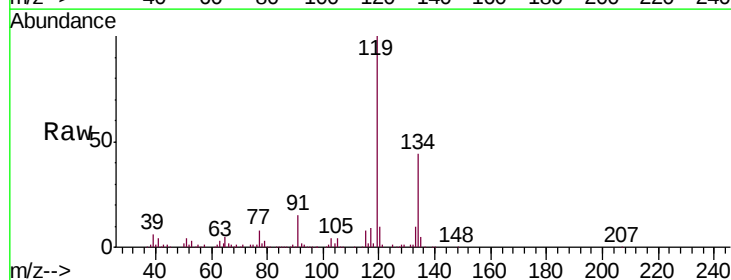
Tgt Ion: 75 Resp: 1215

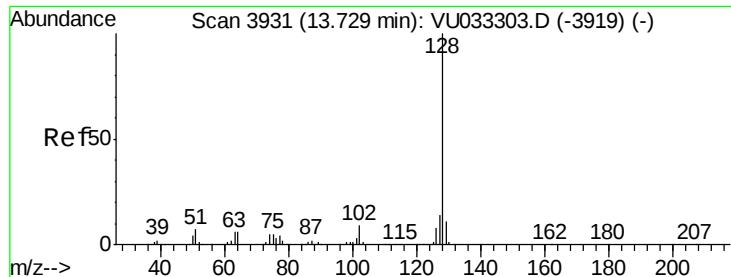
Ion Ratio Lower Upper

75 100

155 0.0 63.5 95.3#

157 0.0 84.6 127.0#





#69

Naphthalene

Concen: 8.572 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033322.D

Acq: 18 Jul 2019 16:23

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MSD

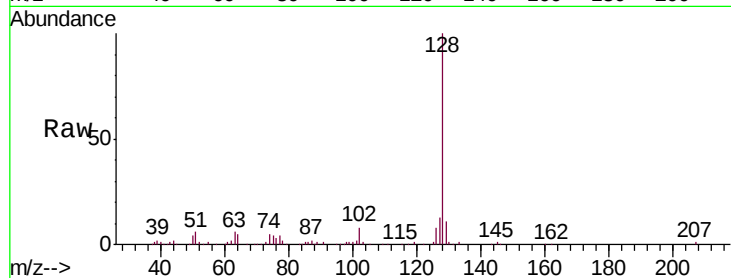
Tgt Ion:128 Resp: 104190

Ion Ratio Lower Upper

128 100

127 12.4 10.8 16.2

129 12.5 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

