

Data File : VU033308.D
Acq On : 18 Jul 2019 10:57
Operator : JC/SP
Sample : K3828-02MS
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

Quant Time: Jul 19 01:46:42 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	329028	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	331307	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	165583	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	50864	20.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	40.84%#
7) Chloroethane-d5	1.67	69	56164	26.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	52.80%#
11) 1,1-Dichloroethene-d2	2.26	63	119168	26.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	52.76%#
21) 2-Butanone-d5	4.15	46	173419	109.89	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	109.89%
24) Chloroform-d	4.62	84	152834	36.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	73.22%
26) 1,2-Dichloroethane-d4	5.29	65	101685	37.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.96%
32) Benzene-d6	5.32	84	239765	29.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	59.00%#
36) 1,2-Dichloropropane-d6	6.31	67	96905	37.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	74.44%
41) Toluene-d8	7.55	98	209103	27.28	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	54.56%#
43) trans-1,3-Dichloropropene-	7.83	79	50132	39.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.54%
47) 2-Hexanone-d5	8.29	63	129781	110.57	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	110.57%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	193760	49.17	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.34%
64) 1,2-Dichlorobenzene-d4	11.85	152	143621	48.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.28%

Target Compounds

						Qvalue
12) 1,1-Dichloroethene	2.27	96	100281	45.662	ug/L #	78
13) Acetone	2.31	43	23815	12.078	ug/L	98
15) Methyl Acetate	2.61	43	2421	0.940	ug/L #	61
16) Methylene chloride	2.68	84	3880	1.547	ug/L #	68
27) 1,2-Dichloroethane	5.37	62	4244	1.181	ug/L #	93
29) Cyclohexane	4.97	56	55543	15.385	ug/L	94
33) Benzene	5.37	78	465698	48.200	ug/L	100
34) Trichloroethene	6.16	95	119963	47.476	ug/L	98
35) Methylcyclohexane	6.39	83	85548	22.101	ug/L	92
39) cis-1,3-Dichloropropene	7.21	75	3082	0.767	ug/L #	34
40) 4-Methyl-2-pentanone	7.40	43	55659	15.835	ug/L #	51
42) Toluene	7.62	91	514456	49.389	ug/L	100
44) trans-1,3-Dichloropropene	7.83	75	2472	0.682	ug/L #	14
45) 1,1,2-Trichloroethane	8.03	97	7258	2.929	ug/L #	19
48) 2-Hexanone	8.40	43	98516	34.403	ug/L #	1
51) Chlorobenzene	9.10	112	330252	48.574	ug/L	99
52) Ethylbenzene	9.23	91	172597	15.485	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

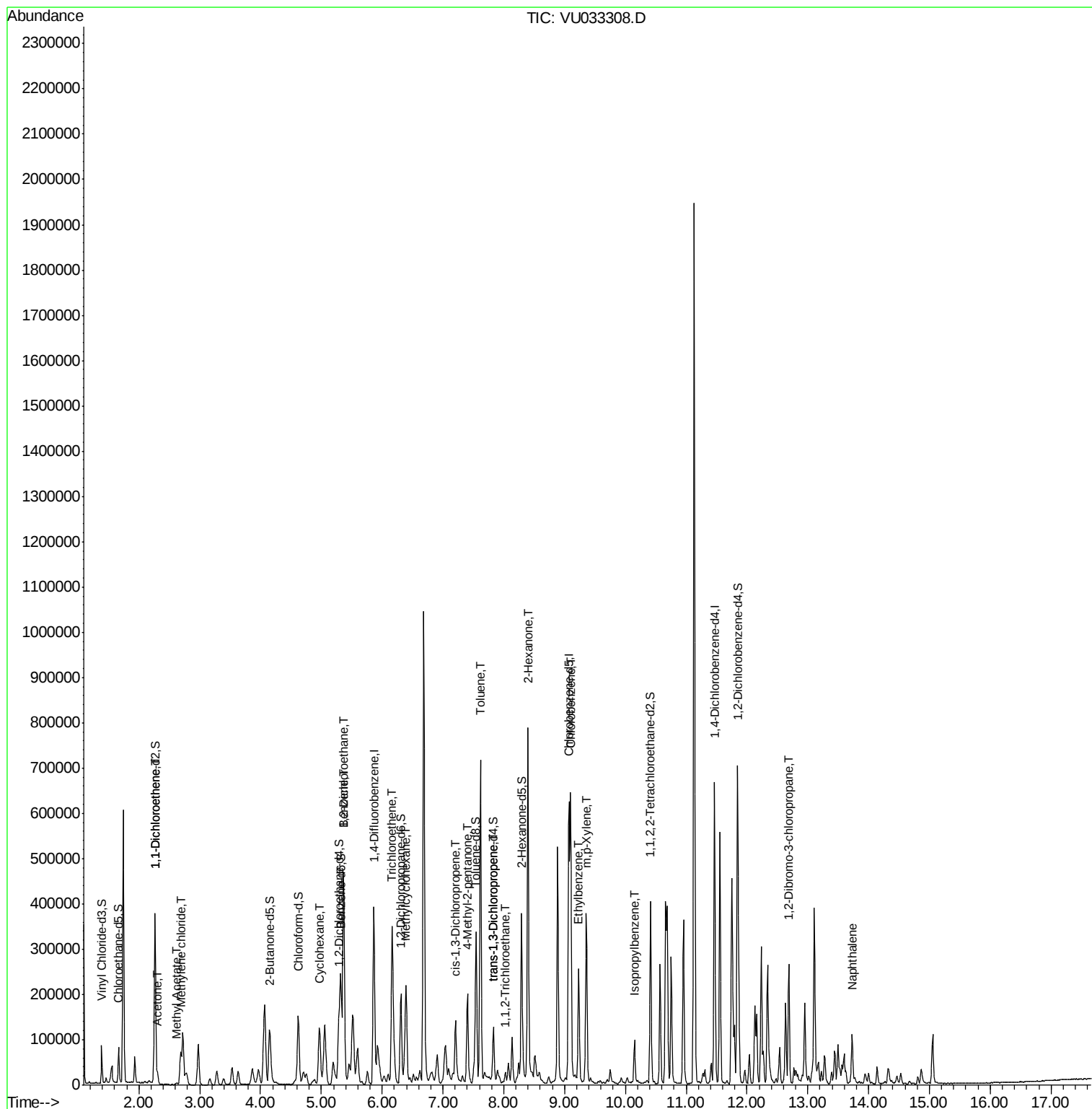
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.36	106	103743	24.573	ug/L	97
56) Isopropylbenzene	10.15	105	59691	5.533	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.69	75	1185	1.188	ug/L #	3
69) Naphthalene	13.73	128	91160	8.836	ug/L	99

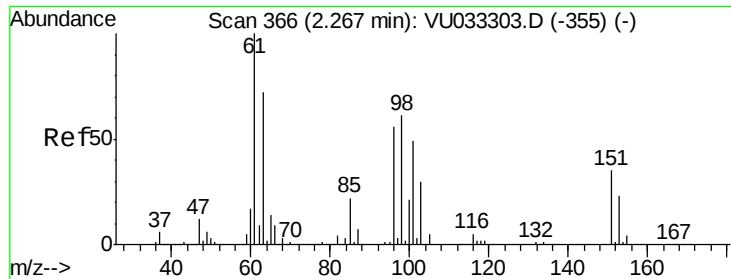
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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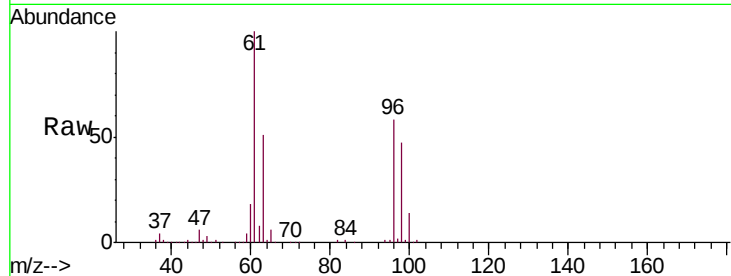




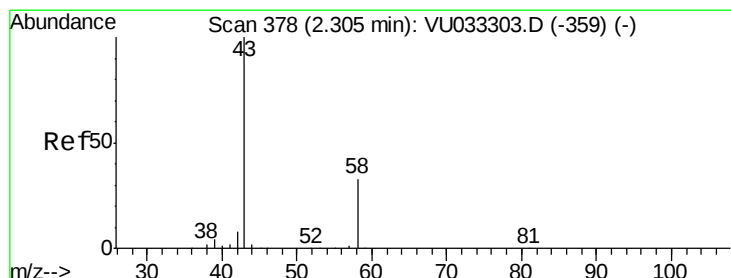
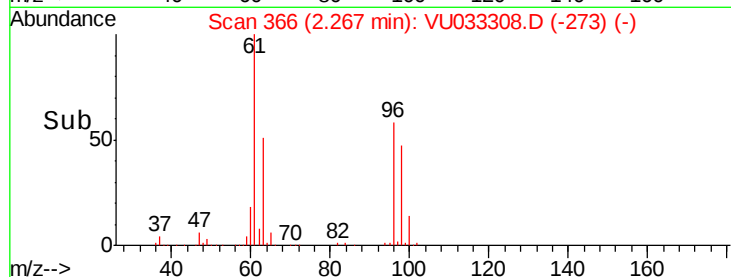
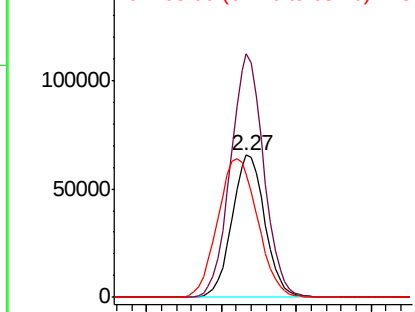
#12
 1,1-Dichloroethene
 Concen: 45.662 ug/L
 RT: 2.27 min Scan# 366
 Delta R.T. -0.00 min
 Lab File: VU033308.D
 Acq: 18 Jul 2019 10:57

Instrument :
 MSVOA_U
 ClientSampleId :
 GAMR0MS

Tgt Ion: 96 Resp: 100281
 Ion Ratio Lower Upper
 96 100
 61 171.2 126.1 234.1
 63 87.0 96.8 179.8#

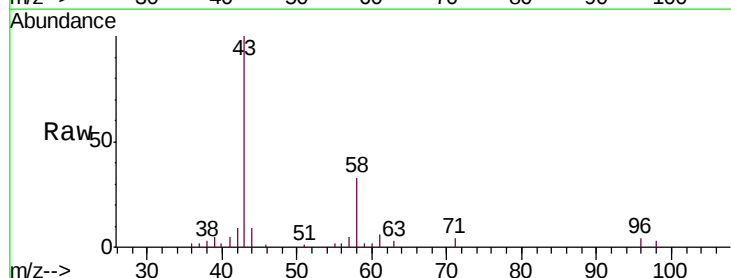


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 63.00 (62.70 to 63.70): VU0

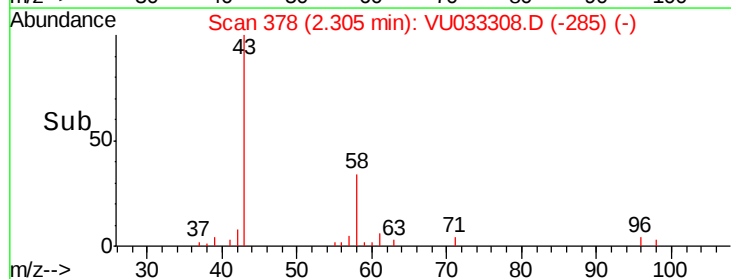
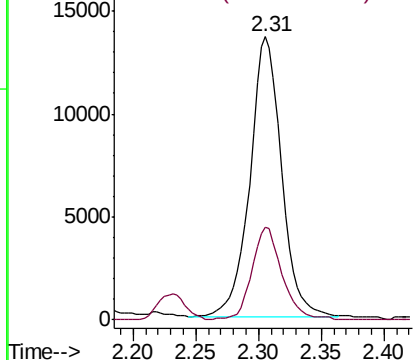


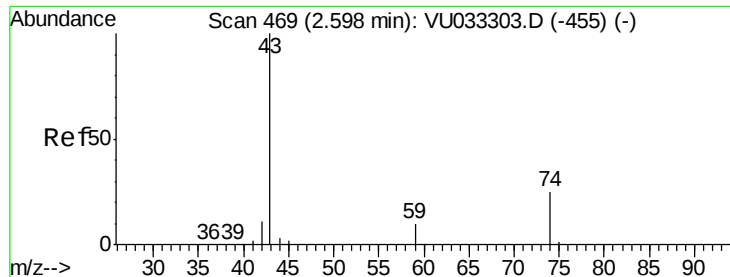
#13
 Acetone
 Concen: 12.078 ug/L
 RT: 2.31 min Scan# 378
 Delta R.T. -0.00 min
 Lab File: VU033308.D
 Acq: 18 Jul 2019 10:57

Tgt Ion: 43 Resp: 23815
 Ion Ratio Lower Upper
 43 100
 58 31.6 0.0 65.4



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

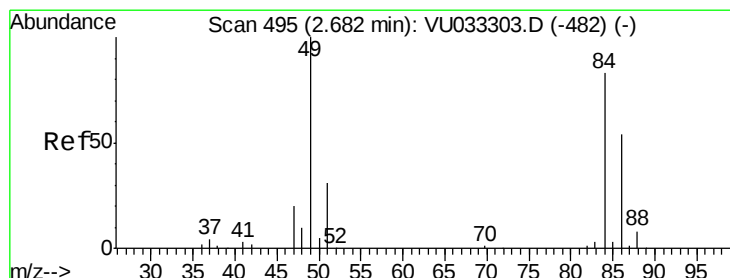
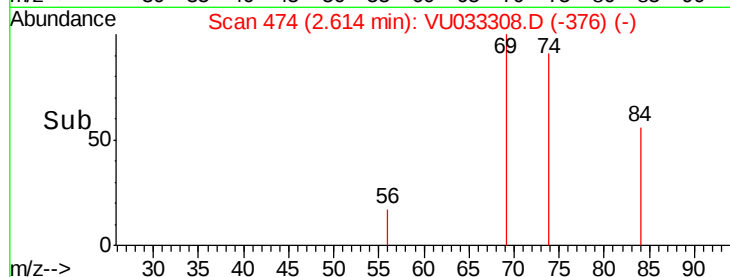
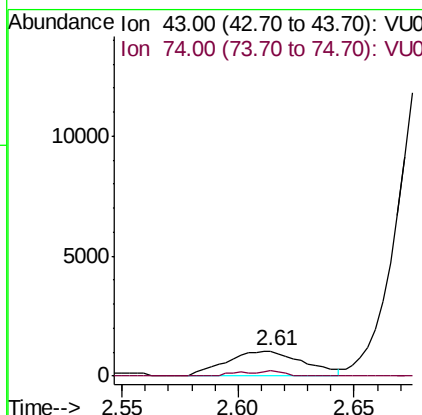
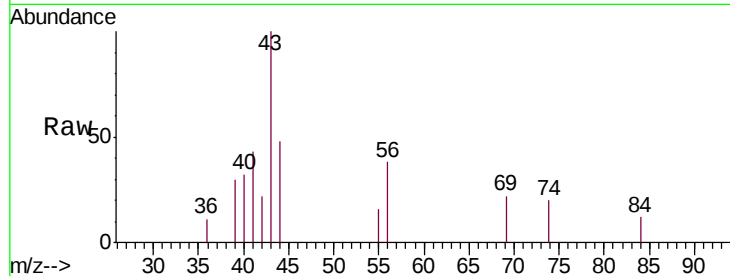




#15
Methyl Acetate
Concen: 0.940 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.02 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

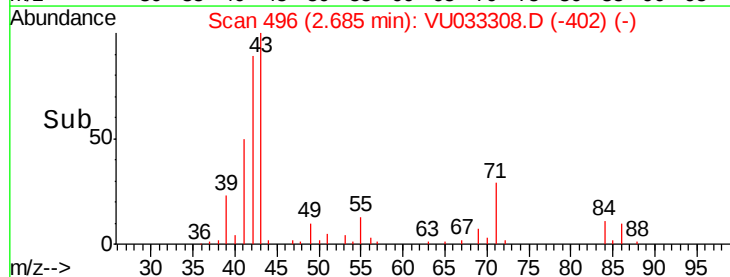
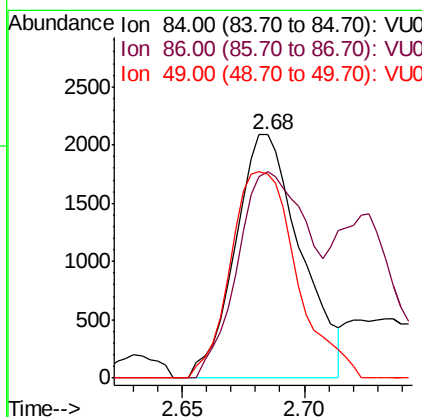
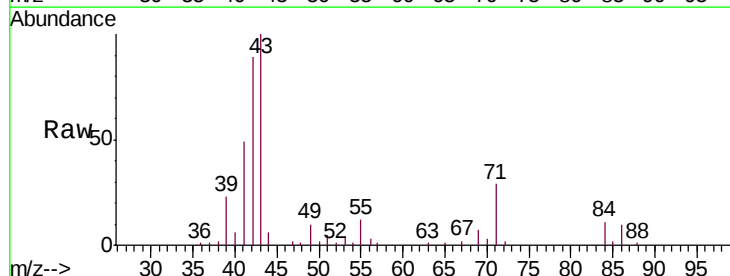
Instrument :
MSVOA_U
ClientSampled :
GAMR0MS

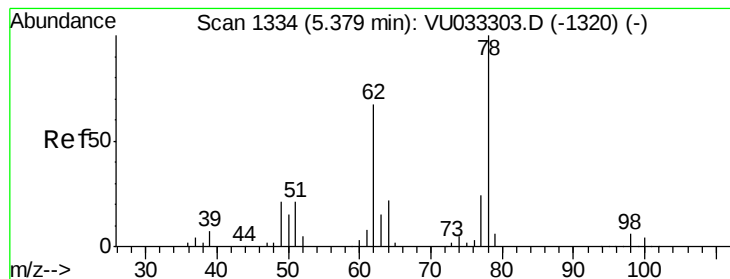
Tgt Ion: 43 Resp: 2421
Ion Ratio Lower Upper
43 100
74 5.4 19.9 29.9#



#16
Methylene chloride
Concen: 1.547 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

Tgt Ion: 84 Resp: 3880
Ion Ratio Lower Upper
84 100
86 84.6 45.7 84.9
49 84.0 87.7 162.9#





#27

1,2-Dichloroethane

Concen: 1.181 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

Instrument :

MSVOA_U

ClientSampleId :

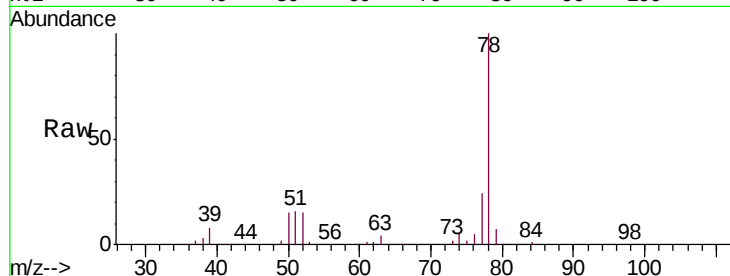
GAMR0MS

Tgt Ion: 62 Resp: 4244

Ion Ratio Lower Upper

62 100

98 11.2 7.0 10.6#



Abundance Ion 62.00 (61.70 to 62.70): VU033308.D (-1320) (-)

Ion 98.00 (97.70 to 98.70): VU033308.D (-1320) (-)

2500

2000

1500

1000

500

0

5.35

5.40

5.45

5.50

5.55

5.60

5.65

5.70

5.75

5.80

5.85

5.90

5.95

6.00

6.05

6.10

6.15

6.20

6.25

6.30

6.35

6.40

6.45

6.50

6.55

6.60

6.65

6.70

6.75

6.80

6.85

6.90

6.95

7.00

7.05

7.10

7.15

7.20

7.25

7.30

7.35

7.40

7.45

7.50

7.55

7.60

7.65

7.70

7.75

7.80

7.85

7.90

7.95

8.00

8.05

8.10

8.15

8.20

8.25

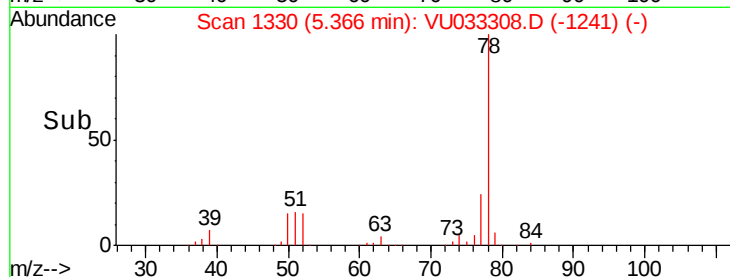
8.30

8.35

8.40

8.45

8.50



#29

Cyclohexane

Concen: 15.385 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

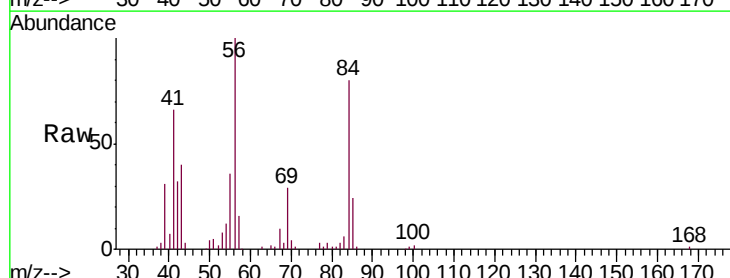
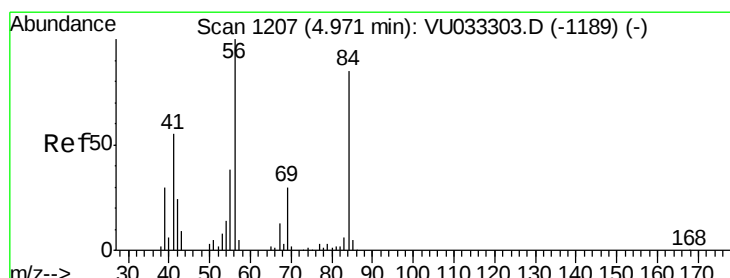
Tgt Ion: 56 Resp: 55543

Ion Ratio Lower Upper

56 100

69 28.1 24.7 37.1

84 81.4 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VU033308.D (-1189) (-)

Ion 69.00 (68.70 to 69.70): VU033308.D (-1189) (-)

Ion 84.00 (83.70 to 84.70): VU033308.D (-1189) (-)

30000

20000

10000

0

4.90

4.95

4.97

4.99

5.00

5.01

5.02

5.03

5.04

5.05

5.06

5.07

5.08

5.09

5.10

5.11

5.12

5.13

5.14

5.15

5.16

5.17

5.18

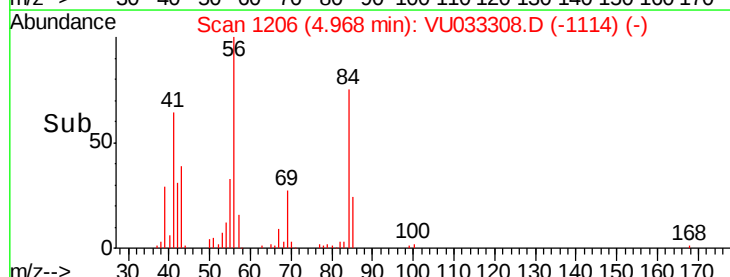
5.19

5.20

5.21

5.22

5.23



#29

Cyclohexane

Concen: 15.385 ug/L

RT: 4.97 min Scan# 1206

Delta R.T. -0.00 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

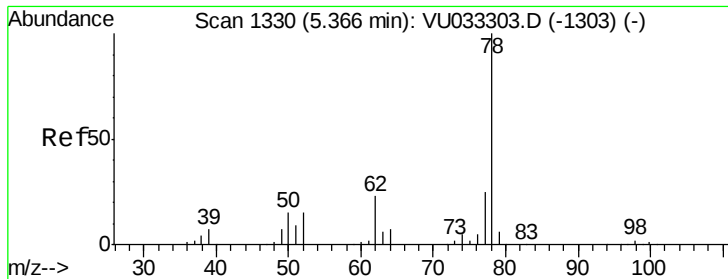
Tgt Ion: 56 Resp: 55543

Ion Ratio Lower Upper

56 100

69 28.1 24.7 37.1

84 81.4 70.2 105.2



#33

Benzene

Concen: 48.200 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

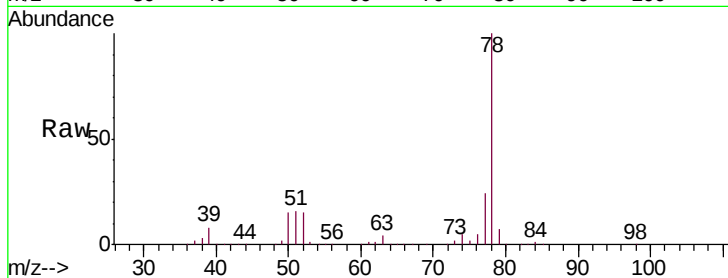
Instrument :

MSVOA_U

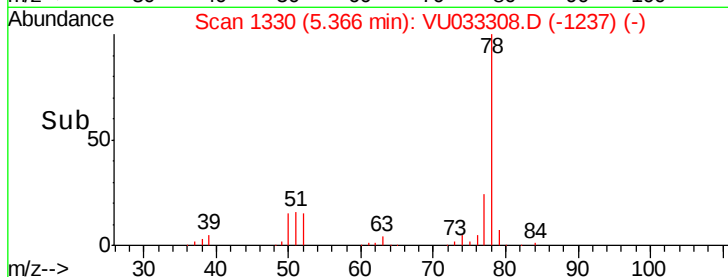
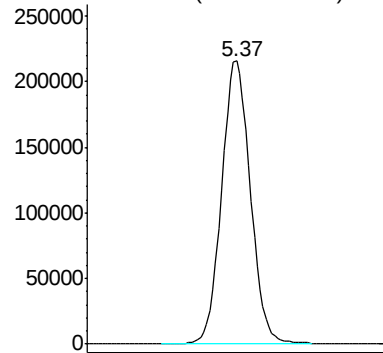
ClientSampleId :

GAMR0MS

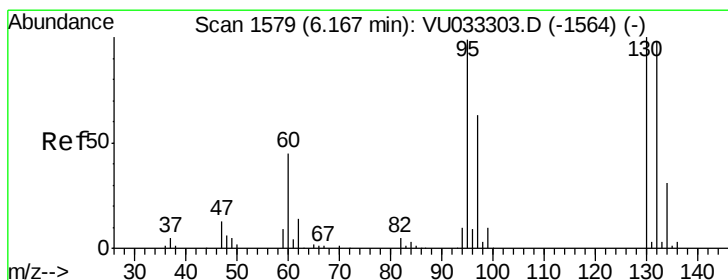
Tgt Ion: 78 Resp: 465698



Abundance Ion 78.00 (77.70 to 78.70): VU0



Time-->



#34

Trichloroethene

Concen: 47.476 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

Tgt Ion: 95 Resp: 119963

Ion	Ratio	Lower	Upper
95	100		
97	64.7	43.8	81.4
132	95.1	65.5	121.6
130	100.6	69.7	129.5

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

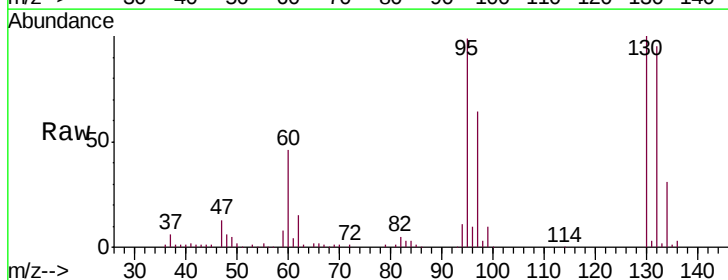
Ion 130.00 (129.70 to 130.70): V

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

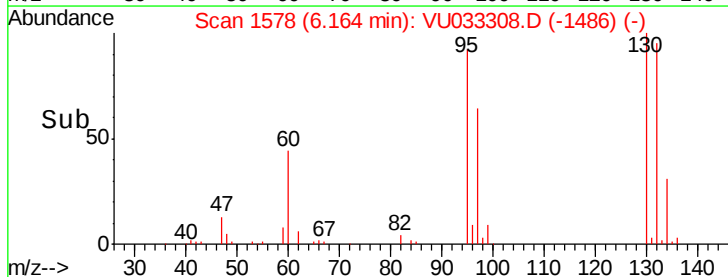


Abundance Ion 95.00 (94.70 to 95.70): VU0

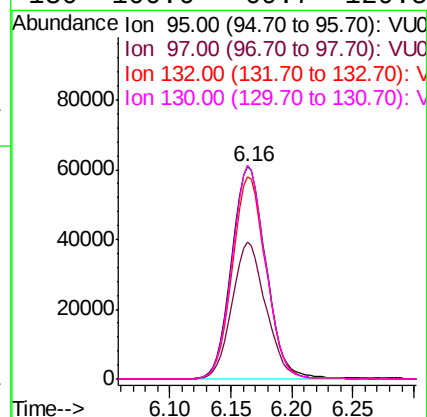
Ion 97.00 (96.70 to 97.70): VU0

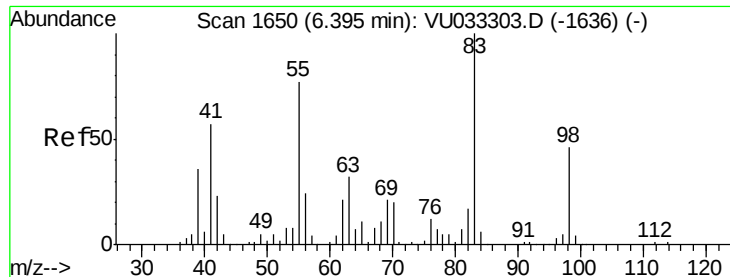
Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->

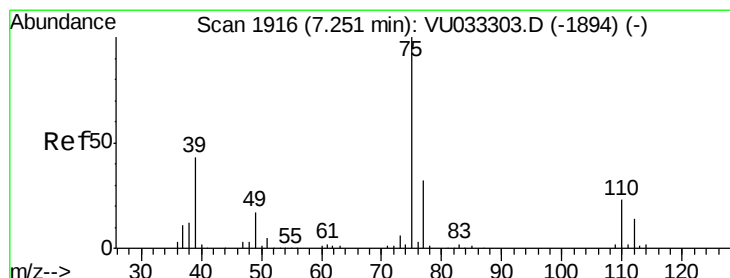
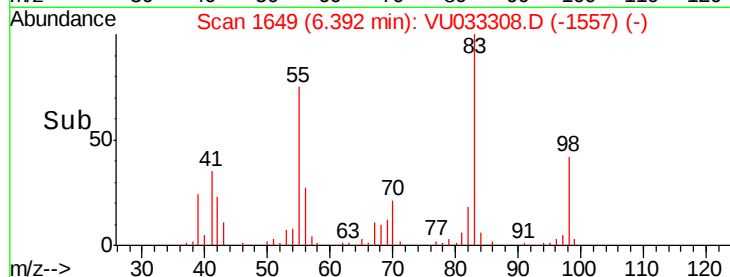
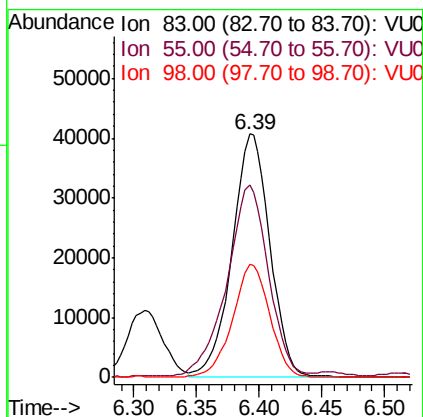
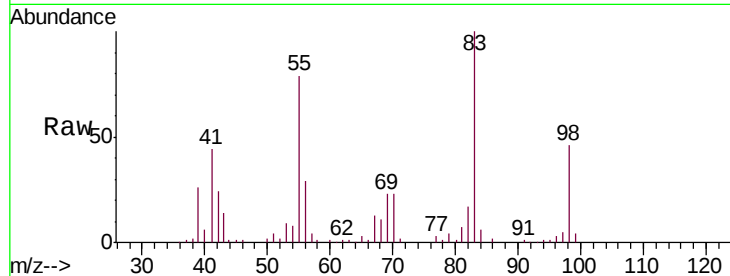




#35
Methylcyclohexane
Concen: 22.101 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

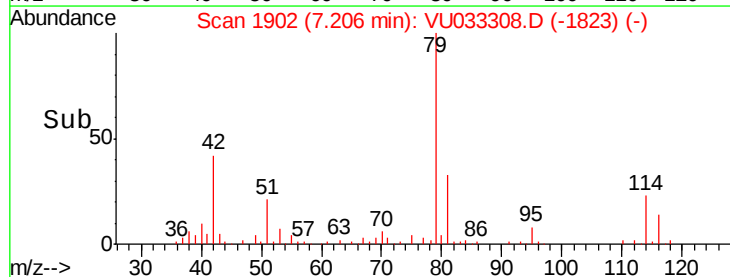
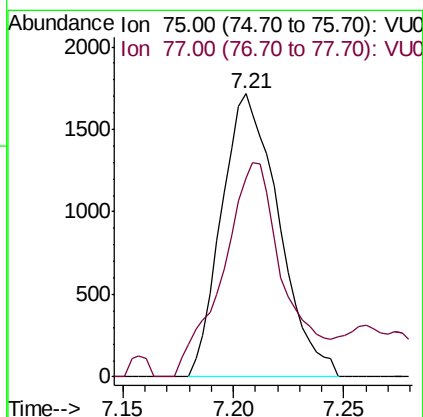
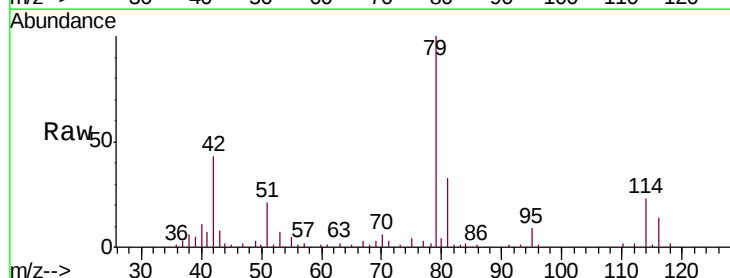
Instrument :
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GAMR0MS

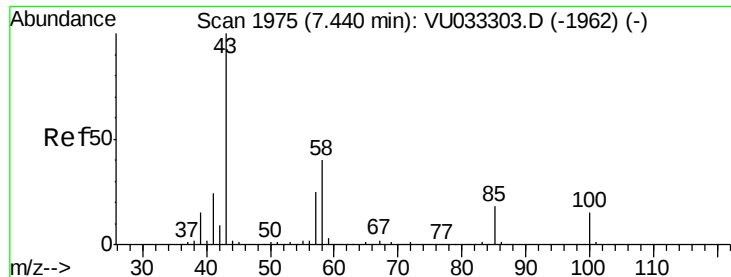
Tgt Ion: 83 Resp: 85548
Ion Ratio Lower Upper
83 100
55 85.6 60.5 90.7
98 45.6 37.4 56.0



#39
cis-1,3-Dichloropropene
Concen: 0.767 ug/L
RT: 7.21 min Scan# 1902
Delta R.T. -0.05 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

Tgt Ion: 75 Resp: 3082
Ion Ratio Lower Upper
75 100
77 70.3 23.1 42.9#

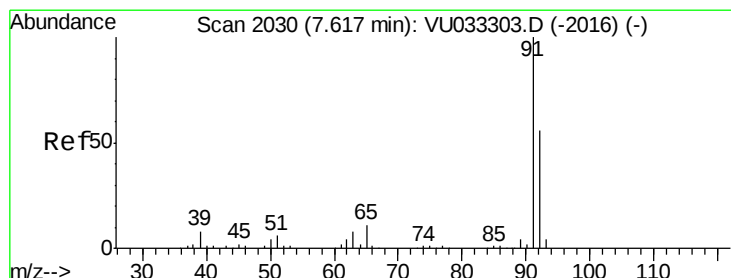
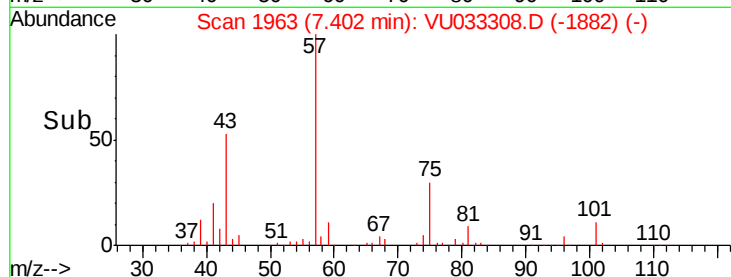
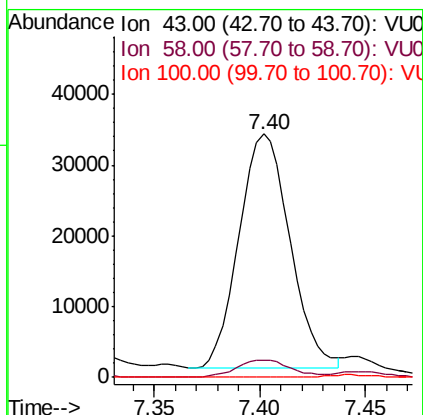
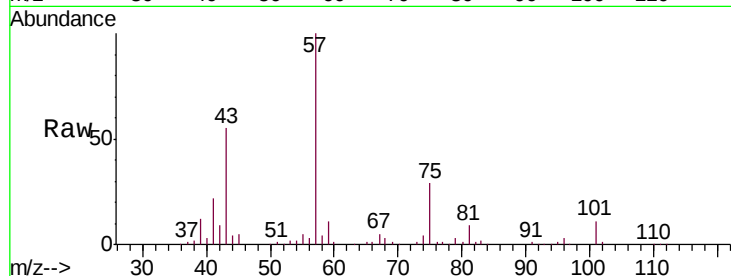




#40
4-Methyl-2-pentanone
Concen: 15.835 ug/L
RT: 7.40 min Scan# 1963
Delta R.T. -0.04 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

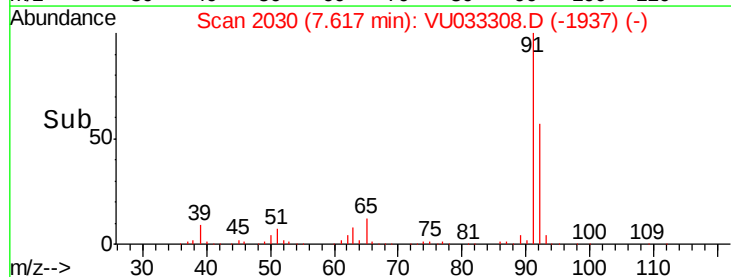
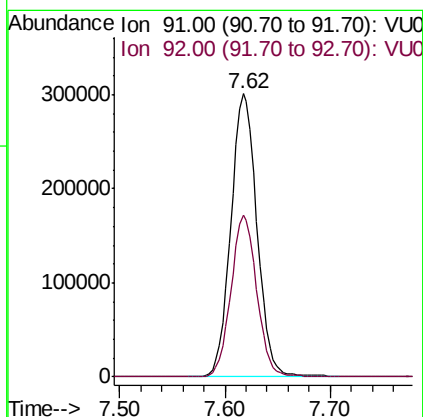
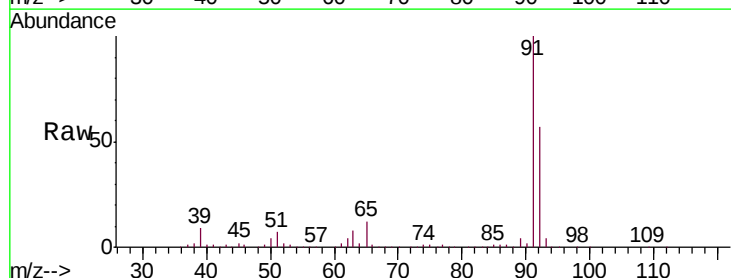
Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

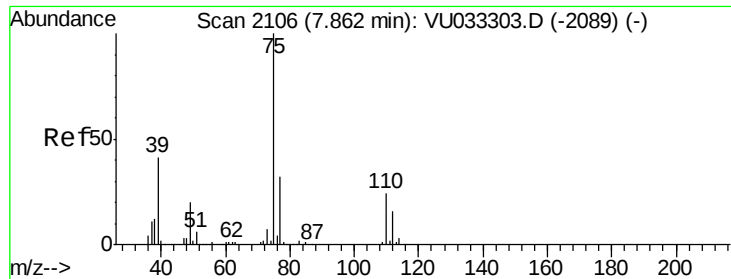
Tgt Ion: 43 Resp: 55659
Ion Ratio Lower Upper
43 100
58 8.0 33.3 49.9#
100 0.1 12.1 18.1#



#42
Toluene
Concen: 49.389 ug/L
RT: 7.62 min Scan# 2030
Delta R.T. -0.00 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

Tgt Ion: 91 Resp: 514456
Ion Ratio Lower Upper
91 100
92 57.1 39.8 74.0





#44

trans-1,3-Dichloropropene

Concen: 0.682 ug/L

RT: 7.83 min Scan# 2096

Delta R.T. -0.03 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

Instrument :

MSVOA_U

ClientSampleId :

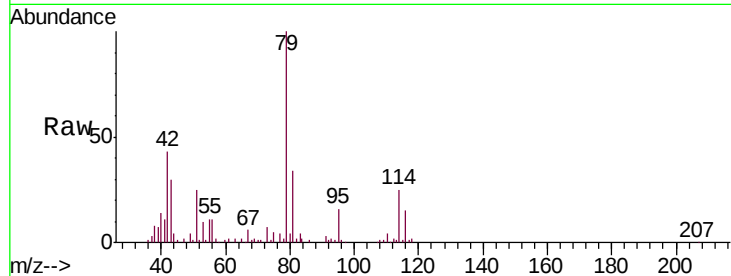
GAMR0MS

Tgt Ion: 75 Resp: 2472

Ion Ratio Lower Upper

75 100

77 80.0 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

1500

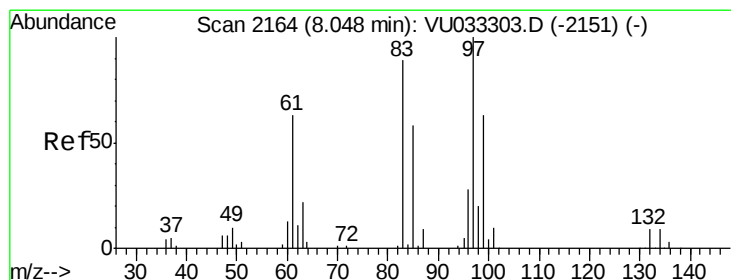
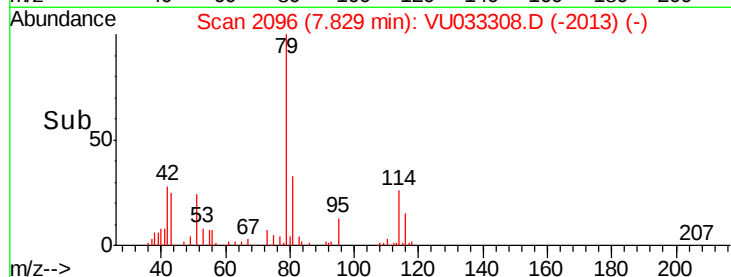
1000

500

0

7.80 7.85

Time-->



#45

1,1,2-Trichloroethane

Concen: 2.929 ug/L

RT: 8.03 min Scan# 2158

Delta R.T. -0.02 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

Tgt Ion: 97 Resp: 7258

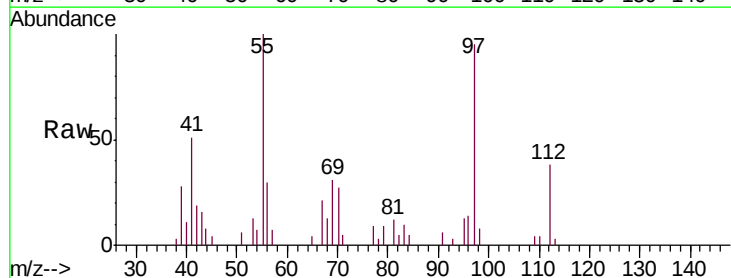
Ion Ratio Lower Upper

97 100

99 0.0 43.0 79.8#

83 10.3 61.5 114.3#

85 0.0 38.8 72.0#



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) (-)

8.03

6000

5000

4000

3000

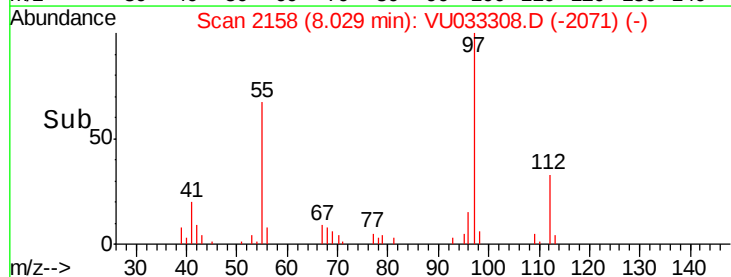
2000

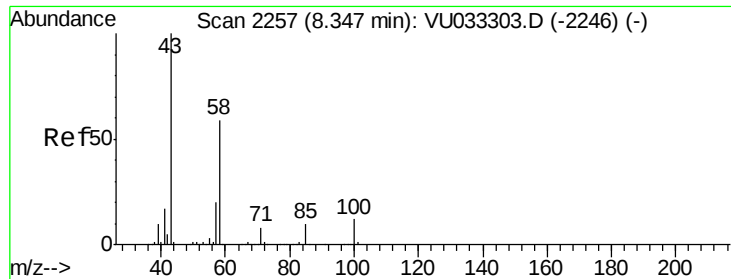
1000

0

8.00 8.05

Time-->

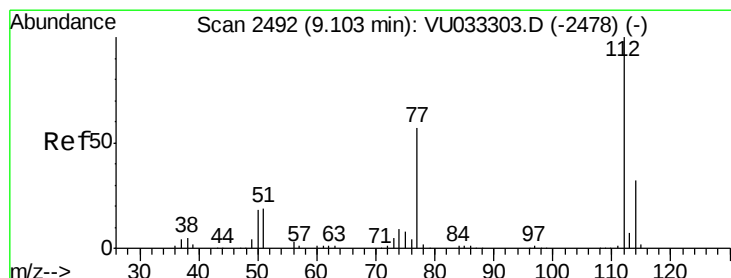
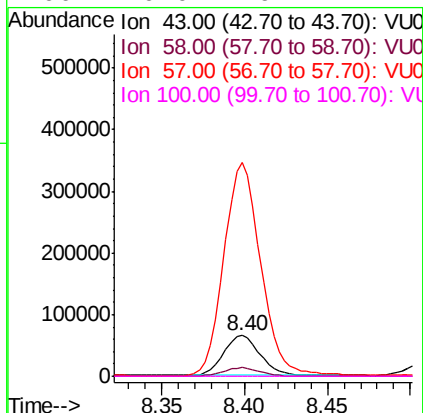
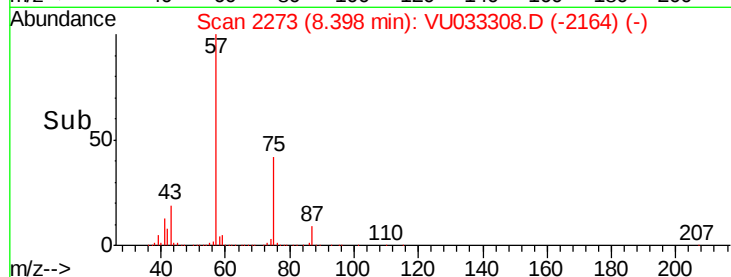
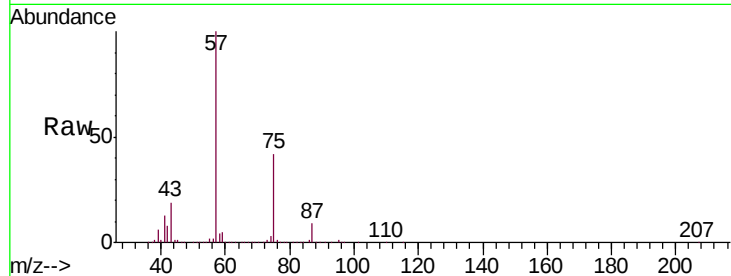




#48
2-Hexanone
Concen: 34.403 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.05 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

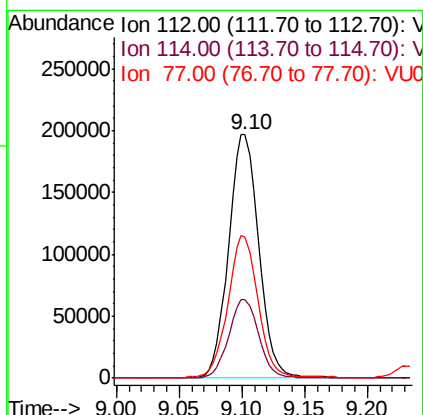
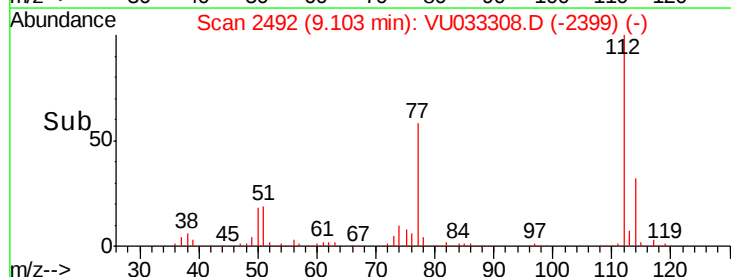
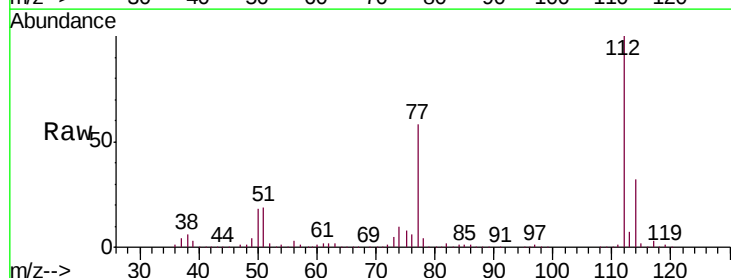
Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

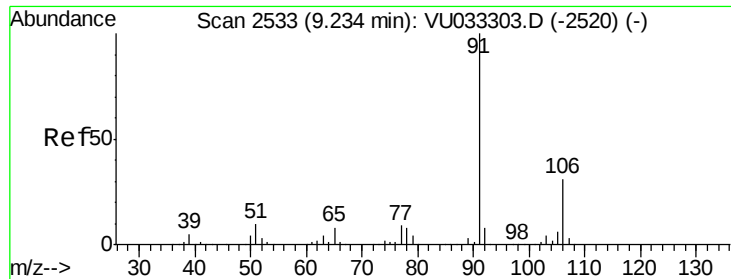
Tgt Ion: 43 Resp: 98516
Ion Ratio Lower Upper
43 100
58 21.7 46.1 69.1#
57 549.0 15.8 23.8#
100 0.0 9.4 14.2#



#51
Chlorobenzene
Concen: 48.574 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

Tgt Ion: 112 Resp: 330252
Ion Ratio Lower Upper
112 100
114 32.4 22.3 41.3
77 57.9 47.2 70.8

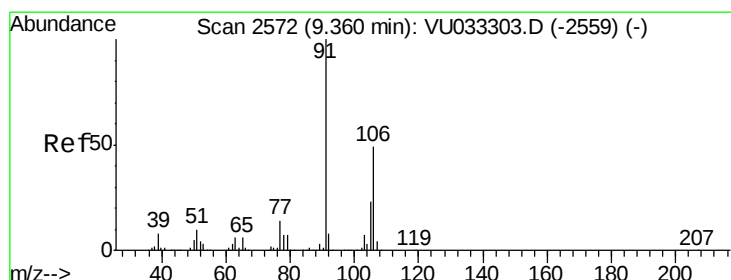
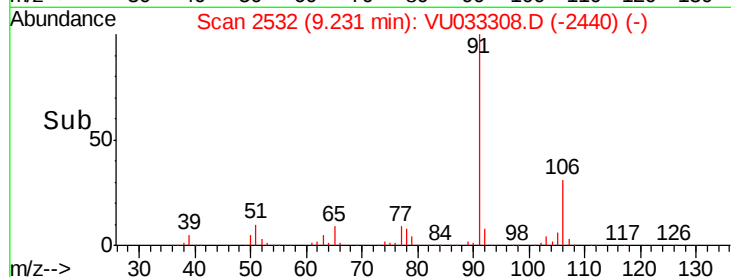
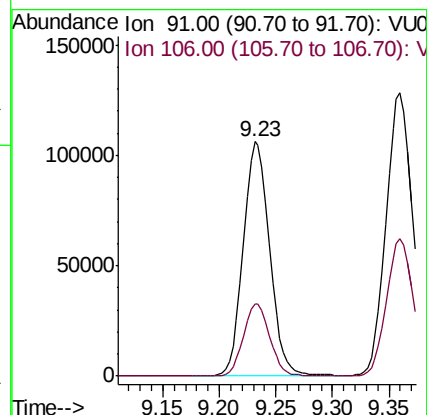
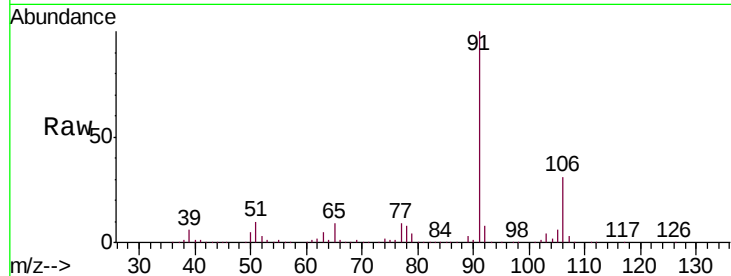




#52
Ethylbenzene
Concen: 15.485 ug/L
RT: 9.23 min Scan# 2532
Delta R.T. -0.00 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

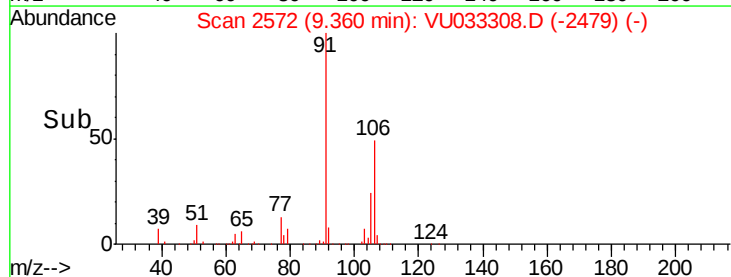
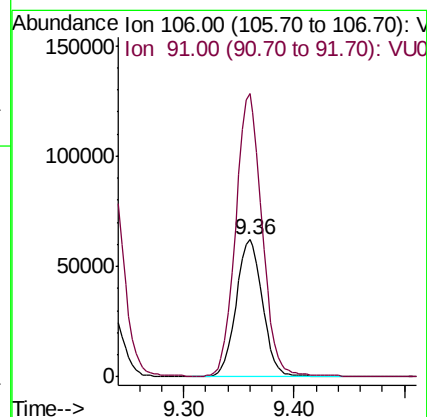
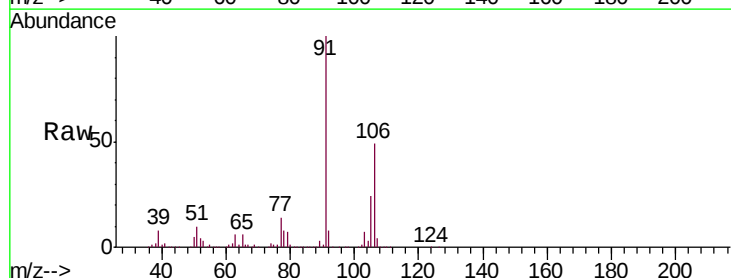
Instrument :
MSVOA_U
ClientSampleId :
GAMR0MS

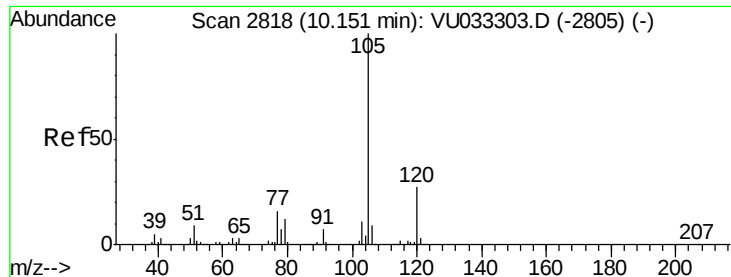
Tgt Ion: 91 Resp: 172597
Ion Ratio Lower Upper
91 100
106 31.0 22.2 41.2



#53
m,p-Xylene
Concen: 24.573 ug/L
RT: 9.36 min Scan# 2572
Delta R.T. -0.00 min
Lab File: VU033308.D
Acq: 18 Jul 2019 10:57

Tgt Ion: 106 Resp: 103743
Ion Ratio Lower Upper
106 100
91 206.0 141.3 262.3





#56

Isopropylbenzene

Concen: 5.533 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MS

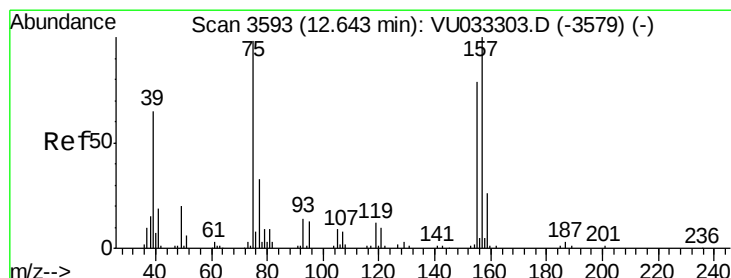
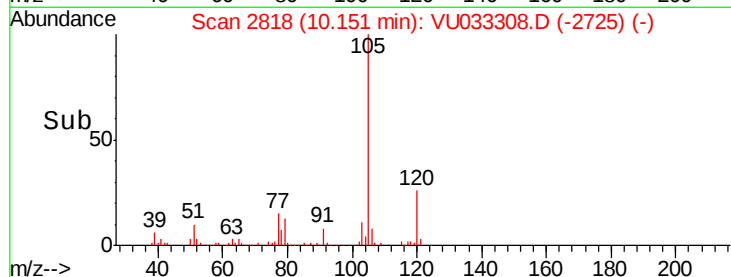
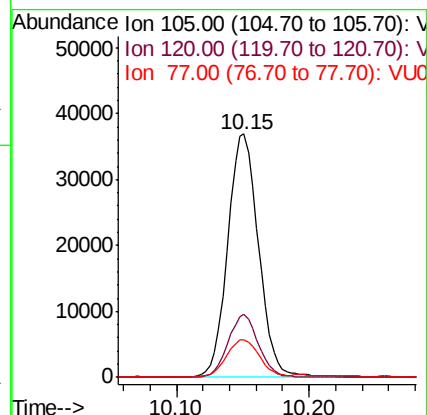
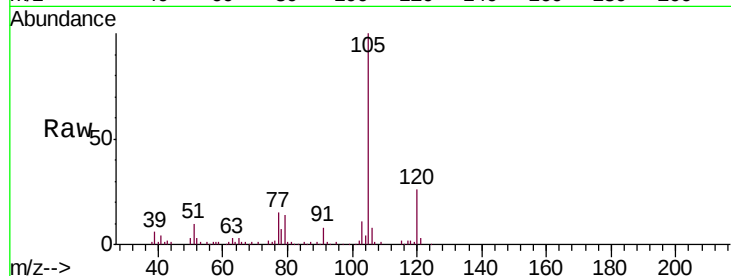
Tgt Ion:105 Resp: 59691

Ion Ratio Lower Upper

105 100

120 25.3 21.2 31.8

77 16.7 12.9 19.3



#66

1,2-Dibromo-3-chloropropane

Concen: 1.188 ug/L

RT: 12.69 min Scan# 3607

Delta R.T. 0.04 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

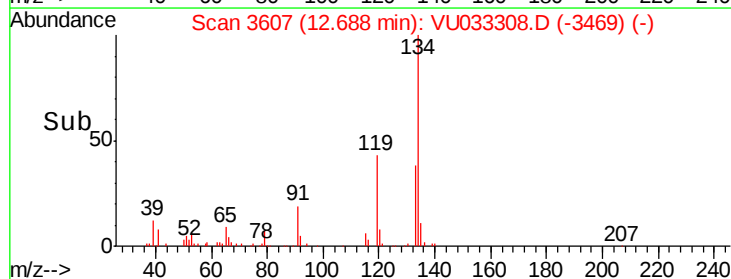
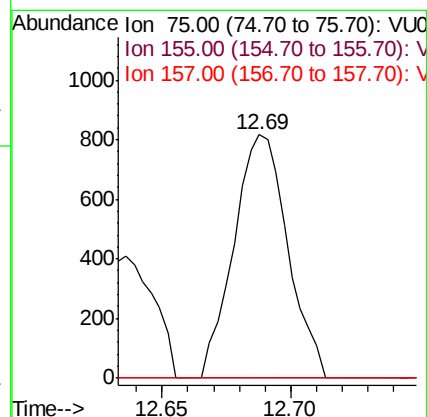
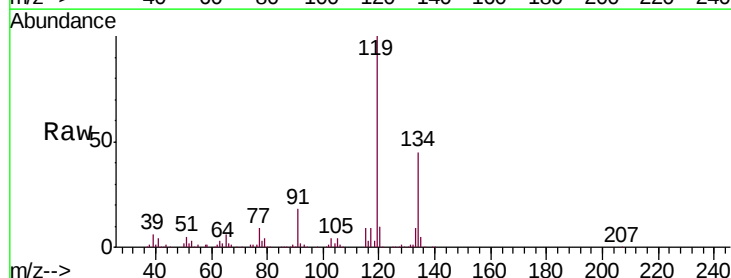
Tgt Ion: 75 Resp: 1185

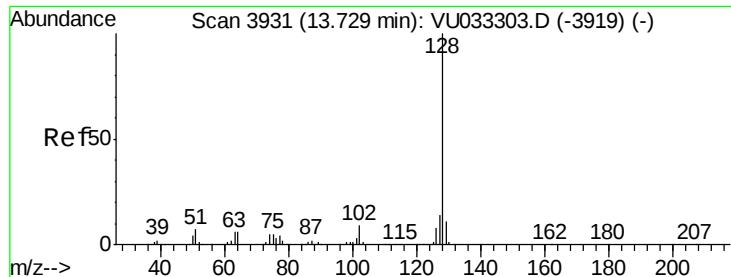
Ion Ratio Lower Upper

75 100

155 0.0 63.5 95.3#

157 0.0 84.6 127.0#





#69

Naphthalene

Concen: 8.836 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033308.D

Acq: 18 Jul 2019 10:57

Instrument :

MSVOA_U

ClientSampleId :

GAMR0MS

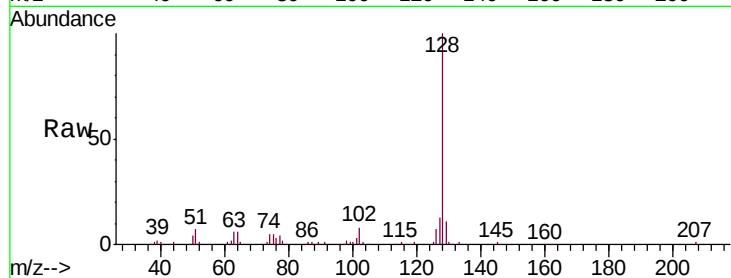
Tgt Ion:128 Resp: 91160

Ion Ratio Lower Upper

128 100

127 13.0 10.8 16.2

129 11.4 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

