

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092820\
 Data File : VU040332.D
 Acq On : 28 Sep 2020 15:13
 Operator : SY/MD
 Sample : L4139-03DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A4DL

Quant Time: Sep 29 07:26:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 29 07:18:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	138084	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	133072	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	65563	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	39083	5.18	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.60%
7) Chloroethane-d5	1.92	69	36578	5.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	116.40%
11) 1,1-Dichloroethene-d2	2.58	63	63947	3.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.20%
20) 2-Butanone-d5	4.65	46	174451	57.85	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.70%
24) Chloroform-d	5.08	84	84402	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.72	65	52911	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.75	84	163931	5.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.60%
36) 1,2-Dichloropropane-d6	6.70	67	55444	5.41	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.20%
41) Toluene-d8	7.91	98	134273	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.60%
43) trans-1,3-Dichloropropene-	8.19	79	19719	4.19	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.80%
46) 2-Hexanone-d5	8.64	63	125628	56.38	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.76%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48023	5.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	55253	5.21	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	4758	0.595	ug/L	96
15) Methyl Acetate	3.10	43	10203	1.456	ug/L #	54
16) Methylene chloride	3.06	84	9363	0.669	ug/L	89
17) Methyl tert-butyl Ether	3.38	73	3402	0.106	ug/L #	1
25) Chloroform	5.11	83	3994	0.165	ug/L	76
27) 1,2-Dichloroethane	5.79	62	6777	0.382	ug/L #	78
30) Cyclohexane	5.40	56	2267	0.112	ug/L	91
33) Benzene	5.79	78	668848	14.050	ug/L	100
34) Trichloroethene	6.26	95	2438	0.191	ug/L #	9
35) Methylcyclohexane	6.77	83	1860	0.095	ug/L	93
37) 1,2-Dichloropropane	6.70	63	6590	0.511	ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1322	0.070	ug/L #	45
42) Toluene	7.98	91	2302	0.047	ug/L	94
44) trans-1,3-Dichloropropene	8.19	75	936	0.053	ug/L #	77
48) 2-Hexanone	8.64	43	16723	2.168	ug/L #	68
51) Chlorobenzene	9.45	112	59601	1.958	ug/L	97
52) Ethylbenzene	9.57	91	3988	0.072	ug/L	98

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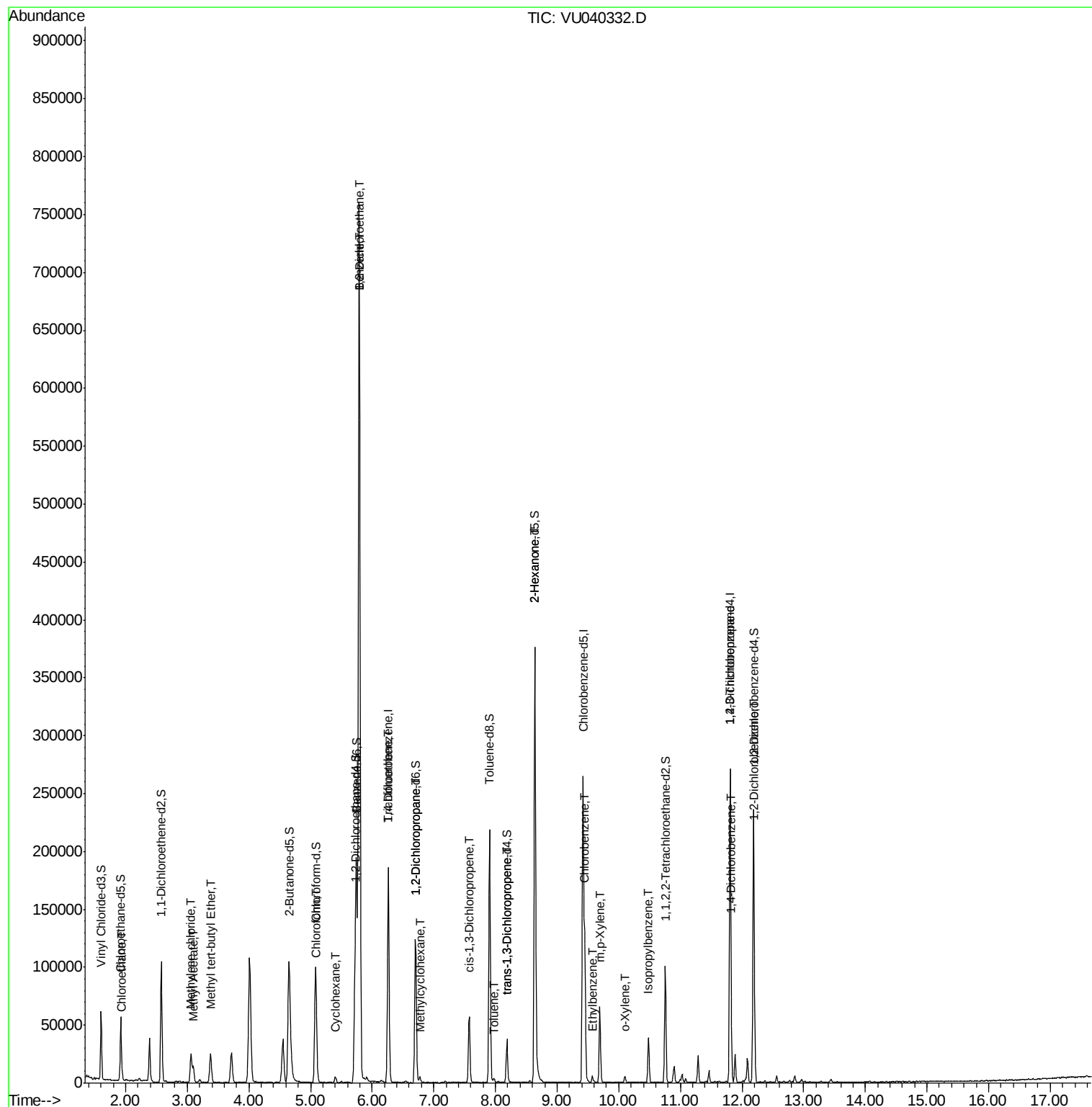
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.69	106	17509	0.883	ug/L	95
54) o-Xylene	10.10	106	1425	0.075	ug/L	97
56) Isopropylbenzene	10.48	105	23376	0.454	ug/L	99
59) 1,2,3-Trichloropropane	11.81	75	10770	1.128	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	4330	0.179	ug/L	95
65) 1,2-Dichlorobenzene	12.20	146	6742	0.291	ug/L	96

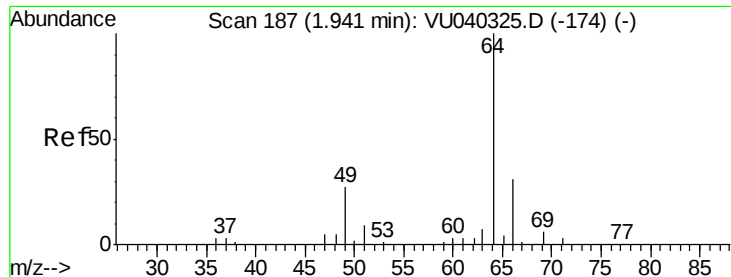
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.595 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040332.D

Acq: 28 Sep 2020 15:13

Instrument :

MSVOA_U

ClientSampleId :

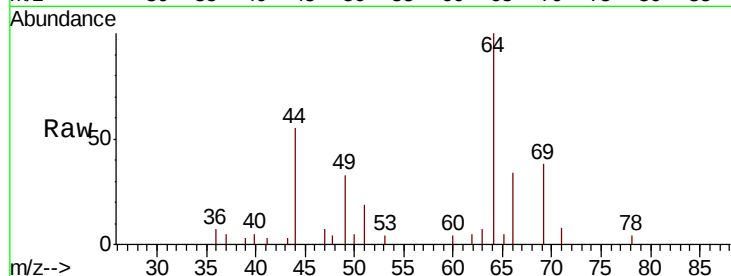
BG4A4DL

Tot Ion: 64 Resp: 4758

Ion Ratio Lower Upper

64 100

66 34.4 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.94

4000

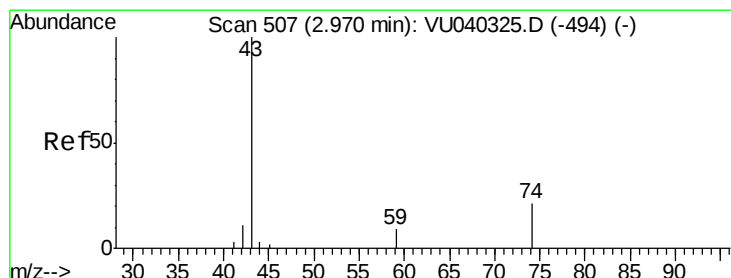
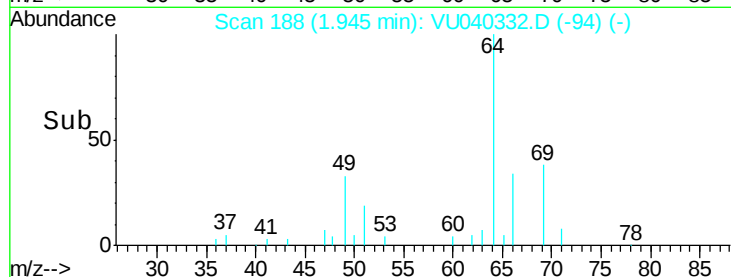
3000

2000

1000

0

Time-->



#15

Methyl Acetate

Concen: 1.456 ug/L

RT: 3.10 min Scan# 547

Delta R.T. 0.13 min

Lab File: VU040332.D

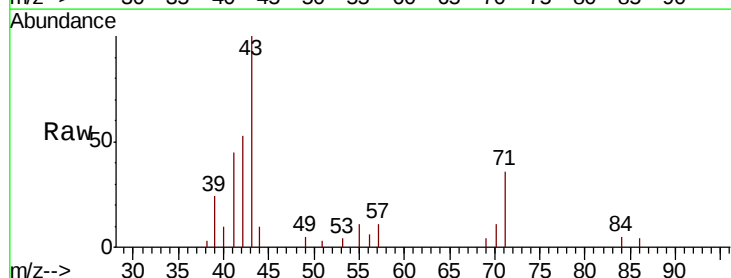
Acq: 28 Sep 2020 15:13

Tgt Ion: 43 Resp: 10203

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.0#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

5000

4000

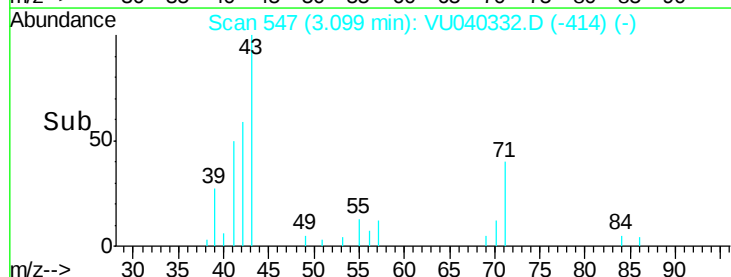
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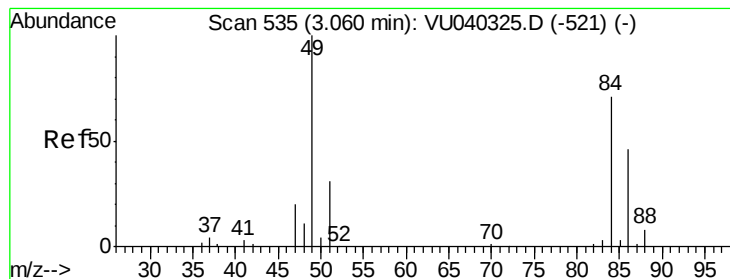
2000

1000

0

Time-->





#16

Methylene chloride

Concen: 0.669 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU040332.D

Acq: 28 Sep 2020 15:13

Instrument :

MSVOA_U

ClientSampleId :

BG4A4DL

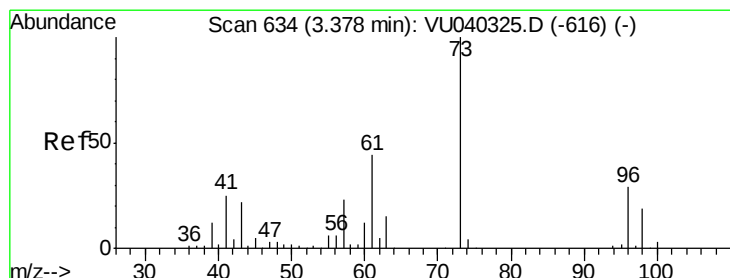
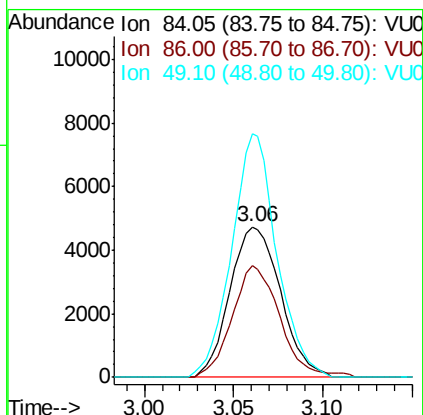
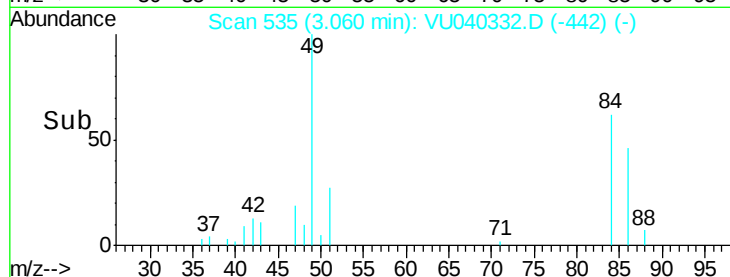
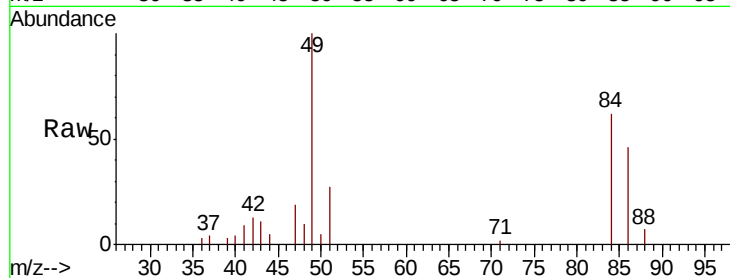
Tot Ion: 84 Resp: 9363

Ion Ratio Lower Upper

84 100

86 74.5 45.2 84.0

49 161.6 104.0 193.2



#17

Methyl tert-butyl Ether

Concen: 0.106 ug/L

RT: 3.38 min Scan# 634

Delta R.T. 0.00 min

Lab File: VU040332.D

Acq: 28 Sep 2020 15:13

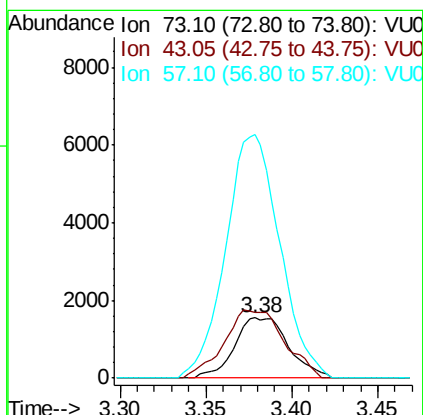
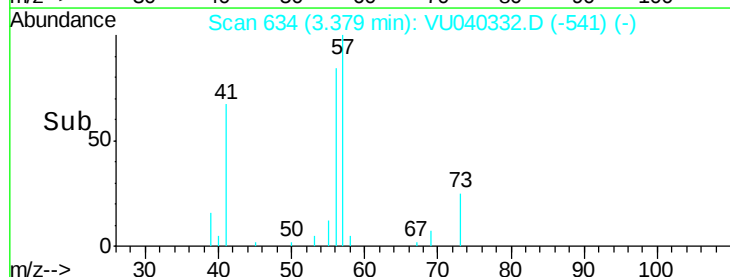
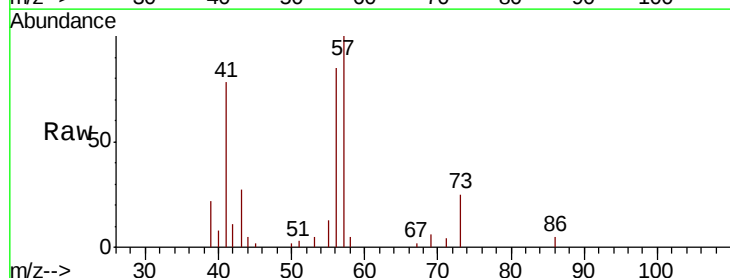
Tgt Ion: 73 Resp: 3402

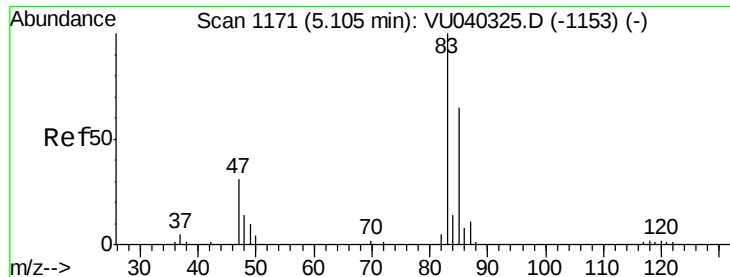
Ion Ratio Lower Upper

73 100

43 124.6 19.1 28.7#

57 403.1 18.3 27.5#

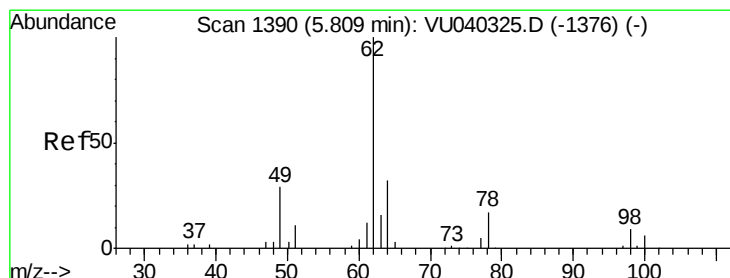
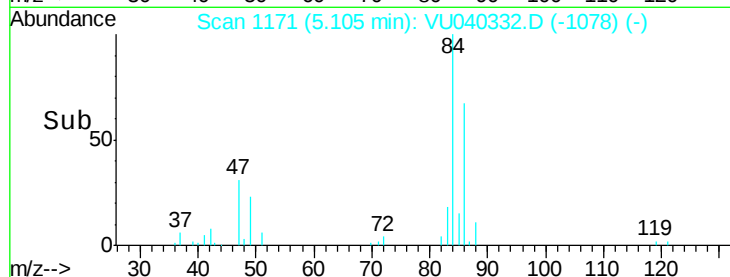
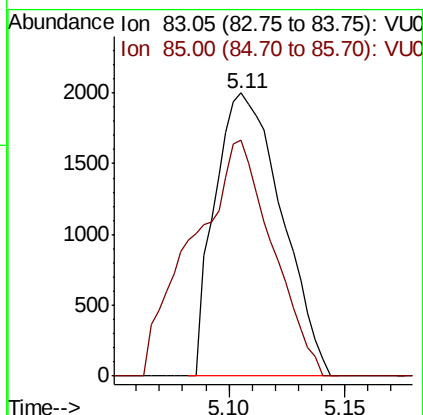
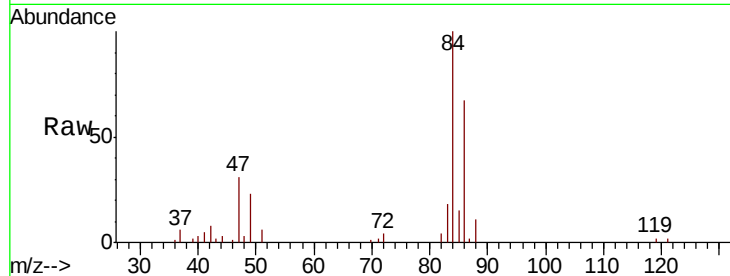




#25
Chloroform
Concen: 0.165 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. 0.00 min
Lab File: VU040332.D
Acq: 28 Sep 2020 15:13

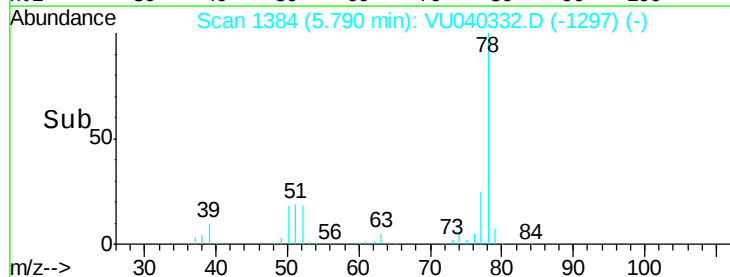
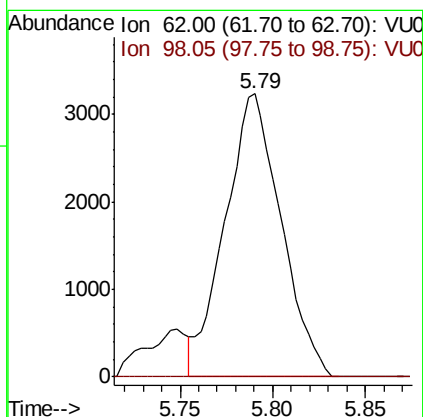
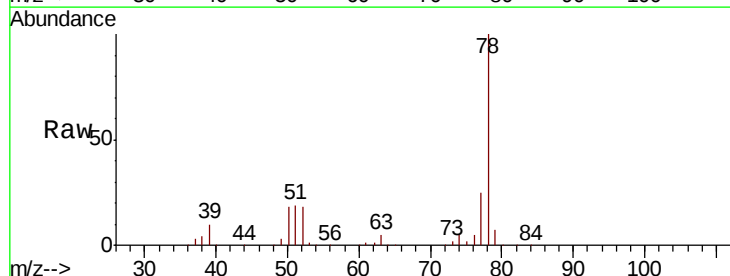
Instrument :
MSVOA_U
ClientSampleId :
BG4A4DL

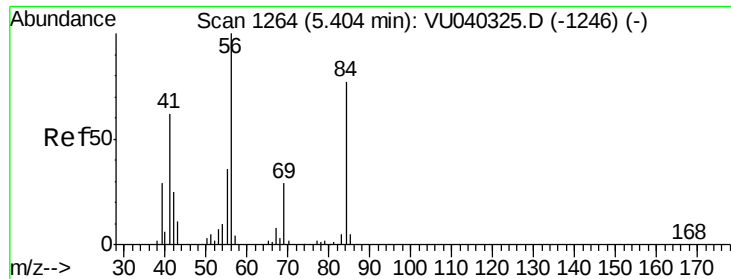
Tot Ion: 83 Resp: 3994
Ion Ratio Lower Upper
83 100
85 83.3 45.3 84.1



#27
1,2-Dichloroethane
Concen: 0.382 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. -0.02 min
Lab File: VU040332.D
Acq: 28 Sep 2020 15:13

Tgt Ion: 62 Resp: 6777
Ion Ratio Lower Upper
62 100
98 0.0 6.1 9.1#

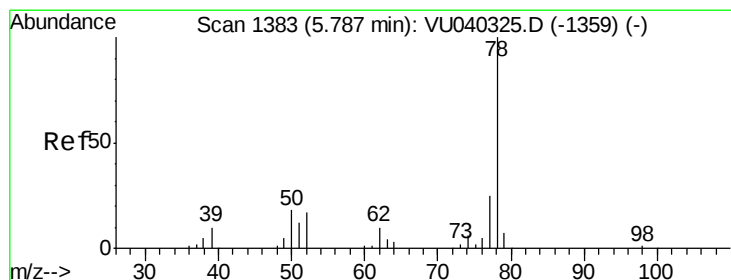
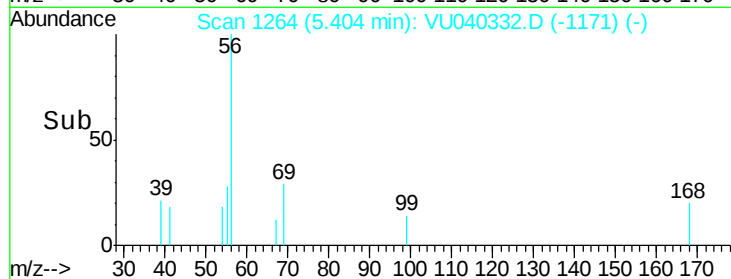
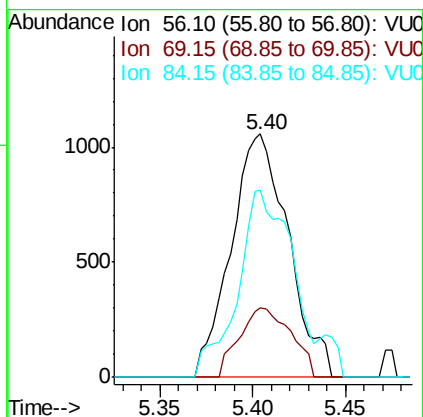
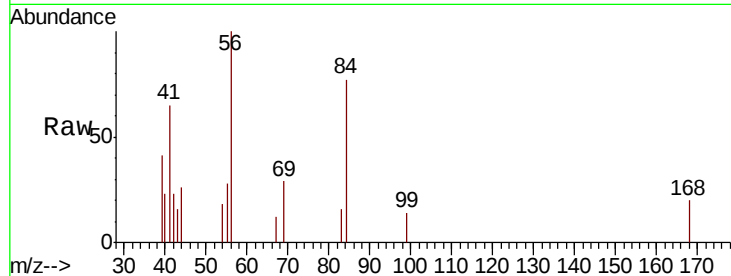




#30
Cyclohexane
Concen: 0.112 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VU040332.D
Acq: 28 Sep 2020 15:13

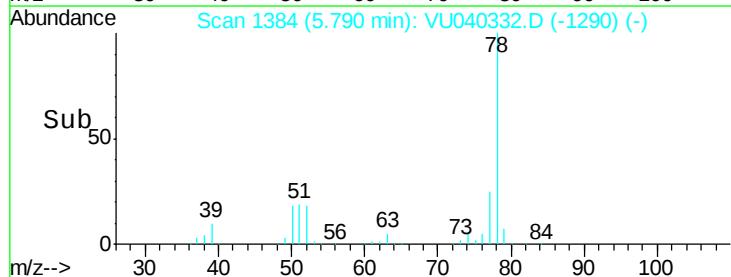
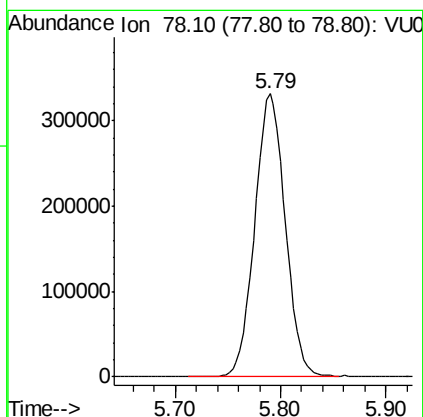
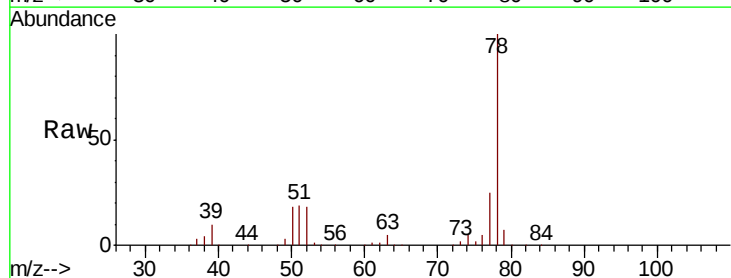
Instrument :
MSVOA_U
ClientSampled :
BG4A4DL

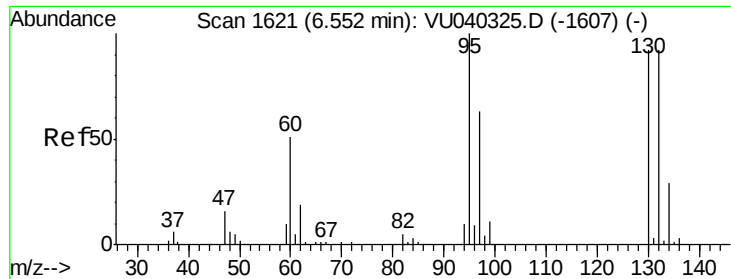
Tot Ion: 56 Resp: 2267
Ion Ratio Lower Upper
56 100
69 25.7 24.1 36.1
84 72.3 65.0 97.4



#33
Benzene
Concen: 14.050 ug/L
RT: 5.79 min Scan# 1384
Delta R.T. 0.00 min
Lab File: VU040332.D
Acq: 28 Sep 2020 15:13

Tgt Ion: 78 Resp: 668848

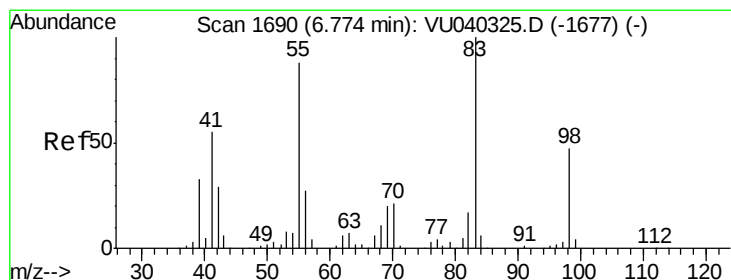
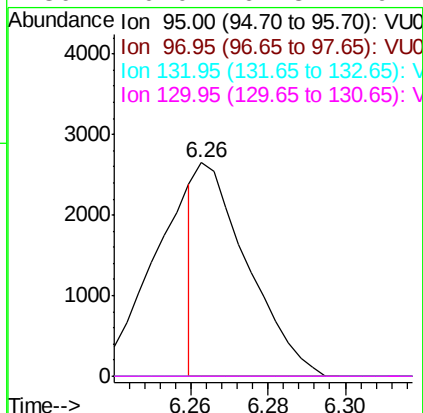
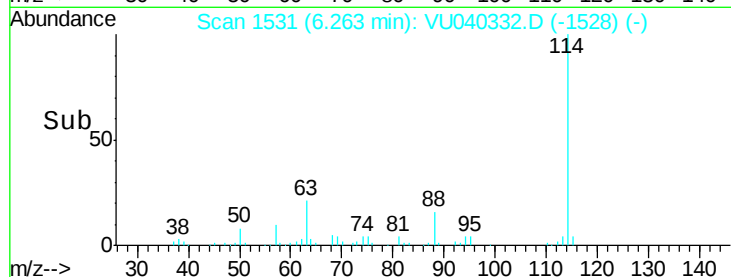
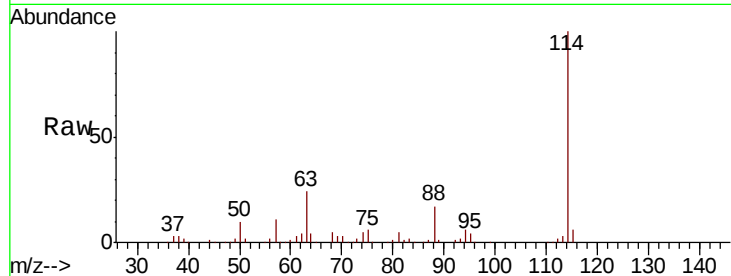




#34
 Trichloroethene
 Concen: 0.191 ug/L
 RT: 6.26 min Scan# 1531
 Delta R.T. -0.29 min
 Lab File: VU040332.D
 Acq: 28 Sep 2020 15:13

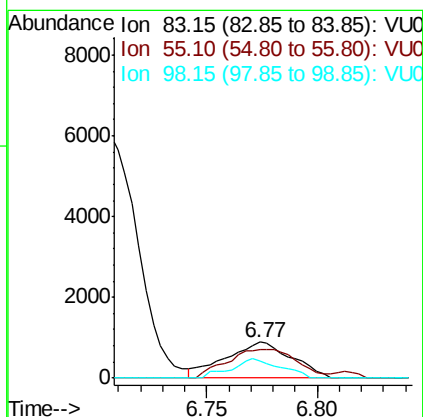
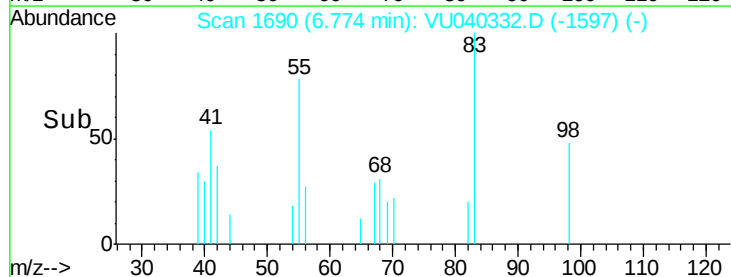
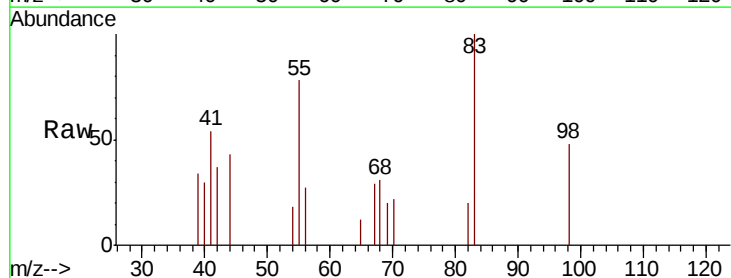
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 BG4A4DL

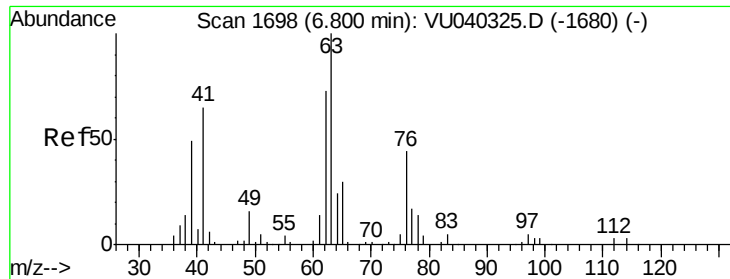
Tot Ion: 95 Resp: 2438
 Ion Ratio Lower Upper
 95 100
 97 0.0 43.3 80.5#
 132 0.0 59.4 110.4#
 130 0.0 64.8 120.4#



#35
 Methylcyclohexane
 Concen: 0.095 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU040332.D
 Acq: 28 Sep 2020 15:13

Tgt Ion: 83 Resp: 1860
 Ion Ratio Lower Upper
 83 100
 55 83.4 70.5 105.7
 98 39.8 37.8 56.6

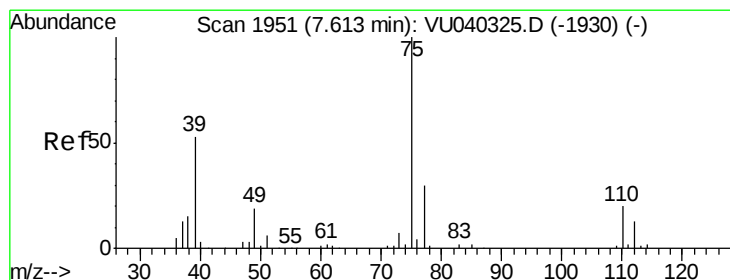
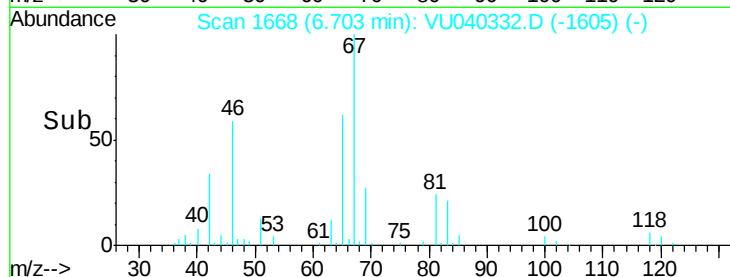
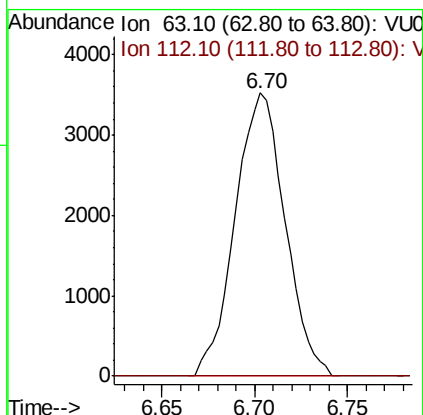
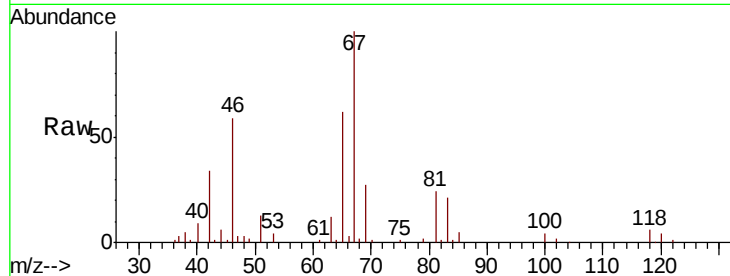




#37
 1,2-Dichloropropane
 Concen: 0.511 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040332.D
 Acq: 28 Sep 2020 15:13

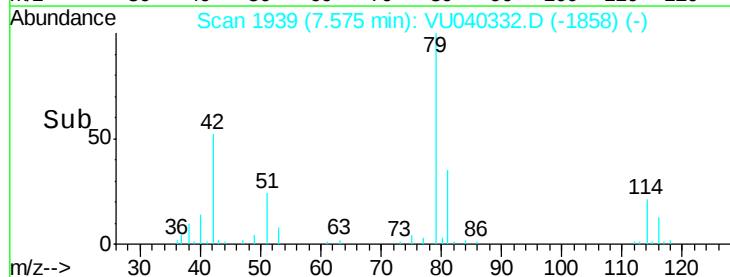
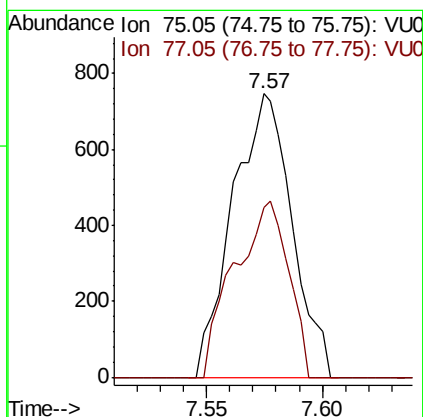
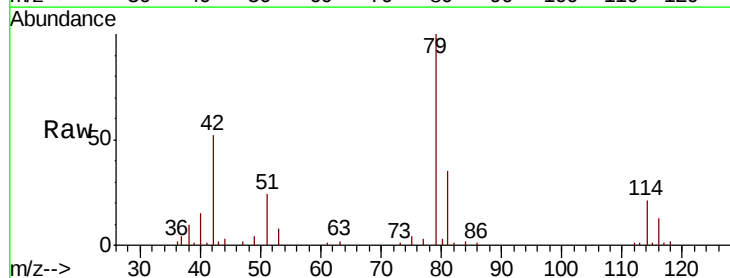
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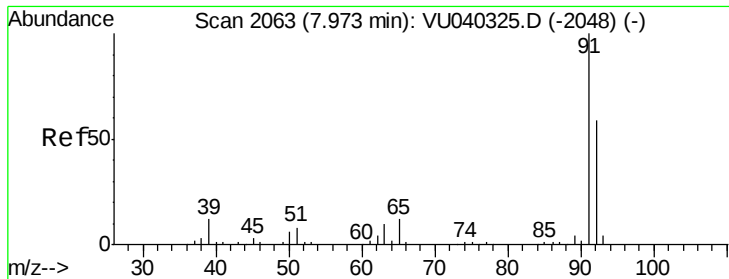
Tot Ion: 63 Resp: 6590
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.2 4.8#



#39
 cis-1,3-Dichloropropene
 Concen: 0.070 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040332.D
 Acq: 28 Sep 2020 15:13

Tgt Ion: 75 Resp: 1322
 Ion Ratio Lower Upper
 75 100
 77 60.0 21.1 39.3#





#42

Toluene

Concen: 0.047 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.01 min

Lab File: VU040332.D

Acq: 28 Sep 2020 15:13

Instrument :

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ClientSampleId :

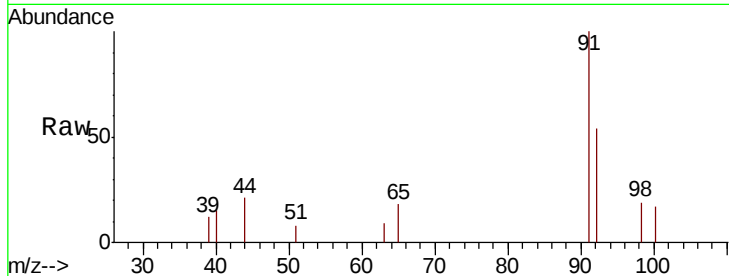
BG4A4DL

Tot Ion: 91 Resp: 2302

Ion Ratio Lower Upper

91 100

92 53.6 40.7 75.5



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0

7.98

1500

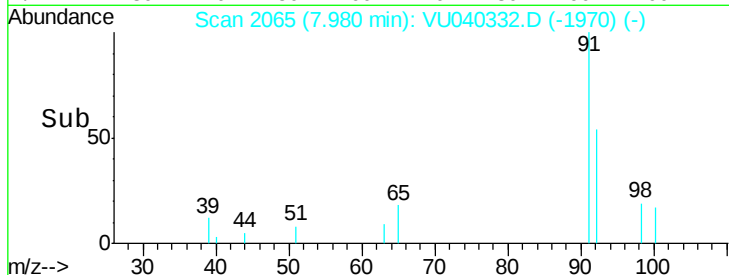
1000

500

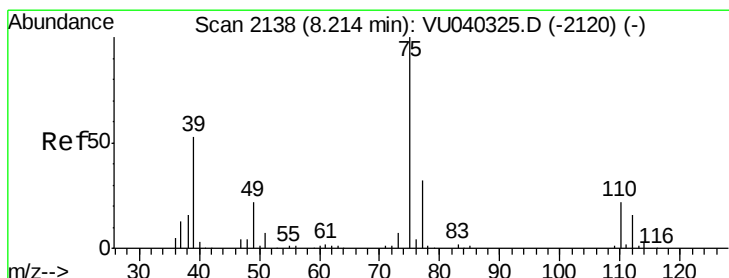
0

7.95

8.00



Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.053 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040332.D

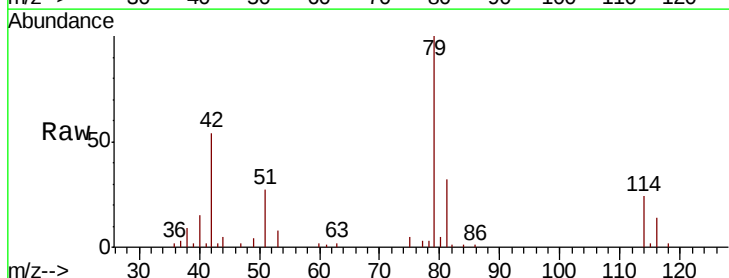
Acq: 28 Sep 2020 15:13

Tgt Ion: 75 Resp: 936

Ion Ratio Lower Upper

75 100

77 47.1 23.9 44.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.19

600

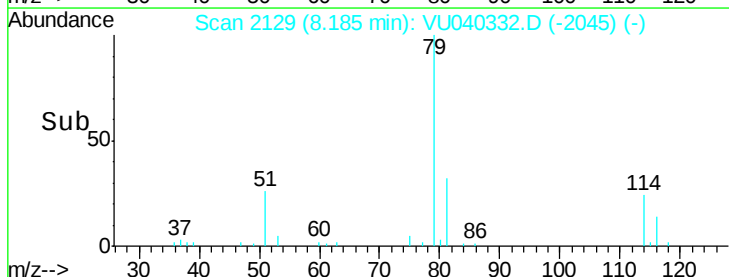
400

200

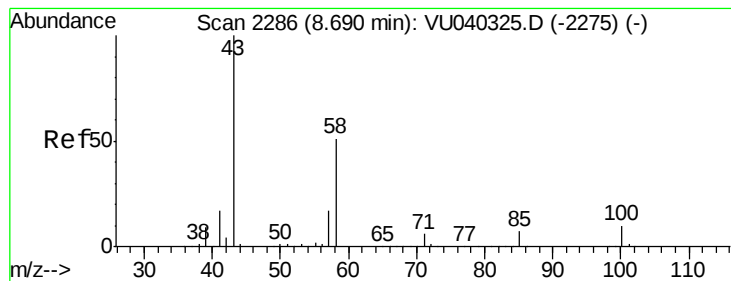
0

8.15

8.20



Time-->



#48

2-Hexanone

Concen: 2.168 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU040332.D

Acq: 28 Sep 2020 15:13

Instrument :

MSVOA_U

ClientSampleId :

BG4A4DL

Tot Ion: 43 Resp: 16723

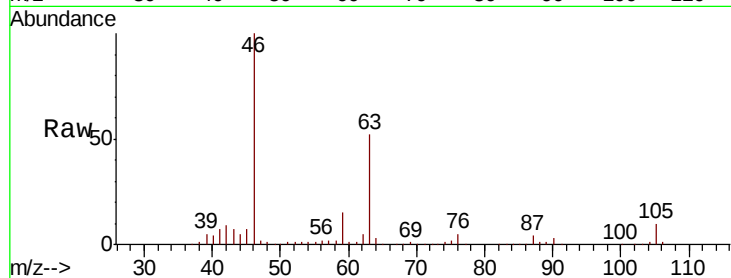
Ion Ratio Lower Upper

43 100

58 25.4 39.6 59.4#

57 29.5 14.3 21.5#

100 0.3 8.0 12.0#



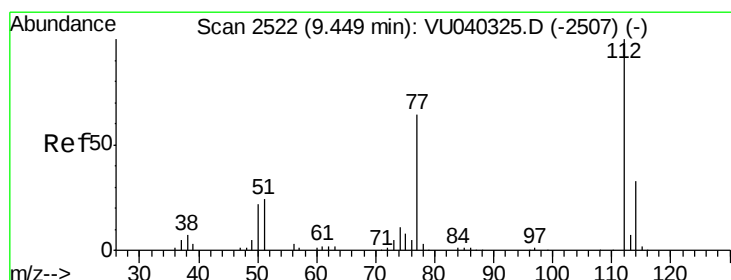
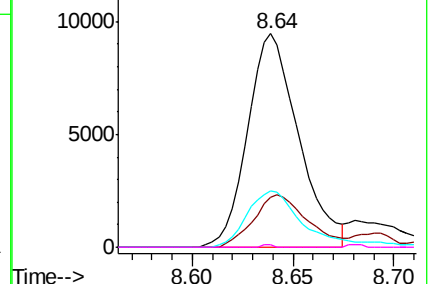
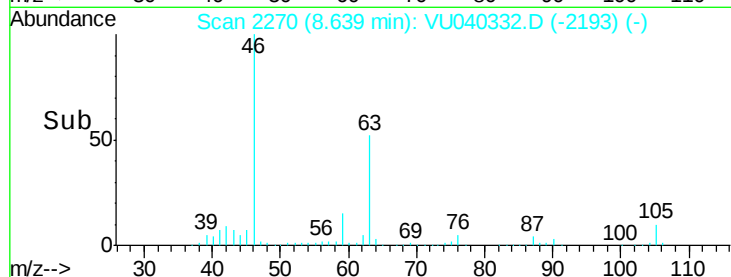
Abundance

Ion 43.05 (42.75 to 43.75): VU040332.D (-2193) (-)

Ion 58.05 (57.75 to 58.75): VU040332.D (-2193) (-)

Ion 57.20 (56.90 to 57.90): VU040332.D (-2193) (-)

Ion 100.15 (99.85 to 100.85): VU040332.D (-2193) (-)



#51

Chlorobenzene

Concen: 1.958 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU040332.D

Acq: 28 Sep 2020 15:13

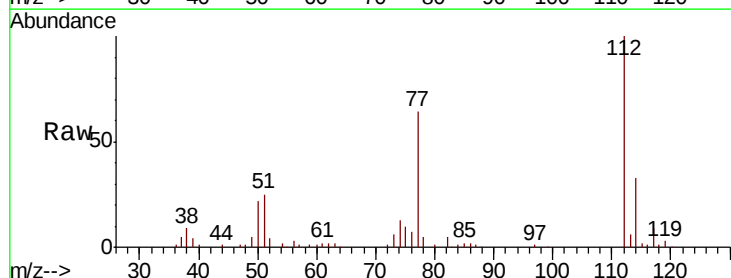
Tgt Ion: 112 Resp: 59601

Ion Ratio Lower Upper

112 100

114 33.0 22.7 42.3

77 63.6 53.2 79.8

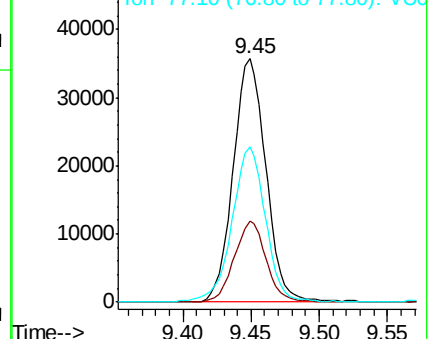
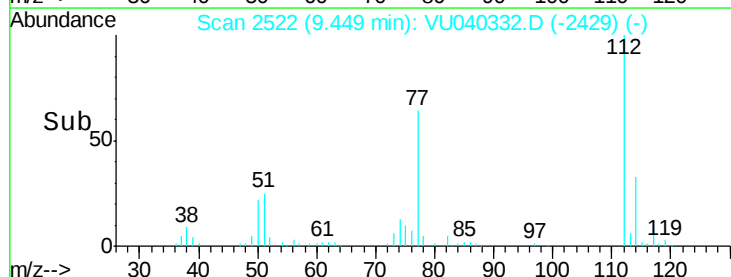


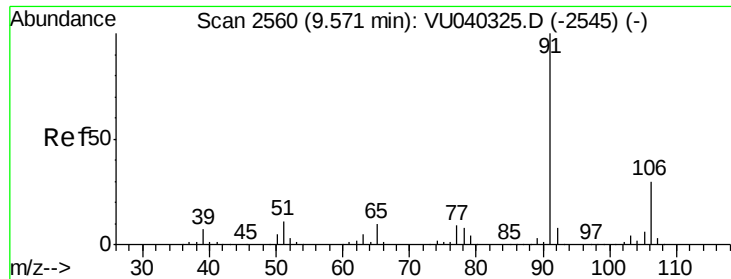
Abundance

Ion 112.10 (111.80 to 112.80): VU040332.D (-2429) (-)

Ion 114.05 (113.75 to 114.75): VU040332.D (-2429) (-)

Ion 77.10 (76.80 to 77.80): VU040332.D (-2429) (-)





#52

Ethylbenzene

Concen: 0.072 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU040332.D

Acq: 28 Sep 2020 15:13

Instrument :

MSVOA_U

ClientSampleID :

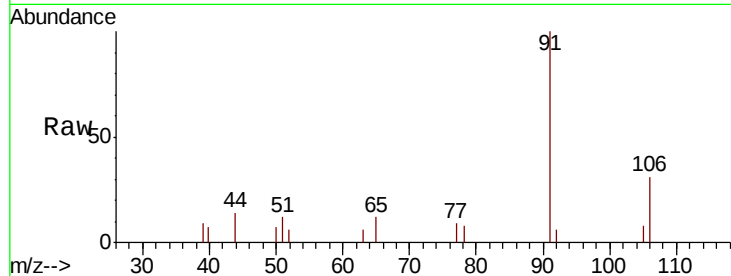
BG4A4DL

Tot Ion: 91 Resp: 3988

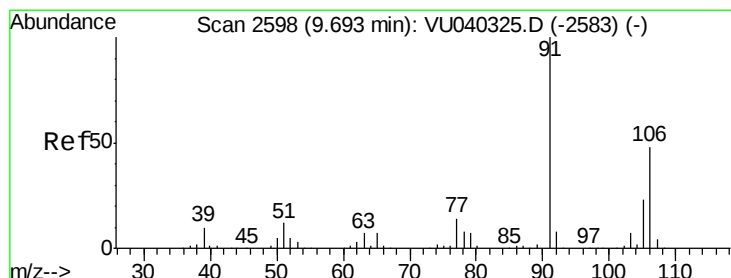
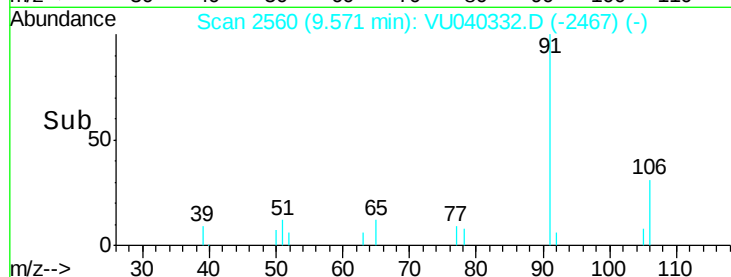
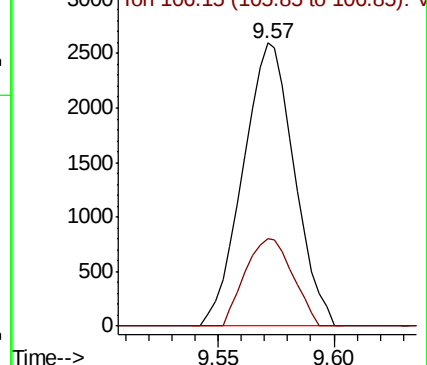
Ion Ratio Lower Upper

91 100

106 30.8 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU040332.D (-2467) (-)



#53

m,p-Xylene

Concen: 0.883 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040332.D

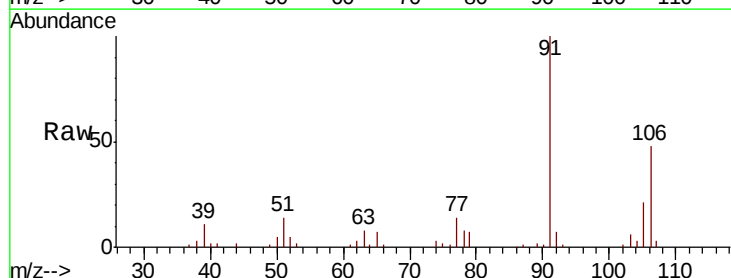
Acq: 28 Sep 2020 15:13

Tgt Ion: 106 Resp: 17509

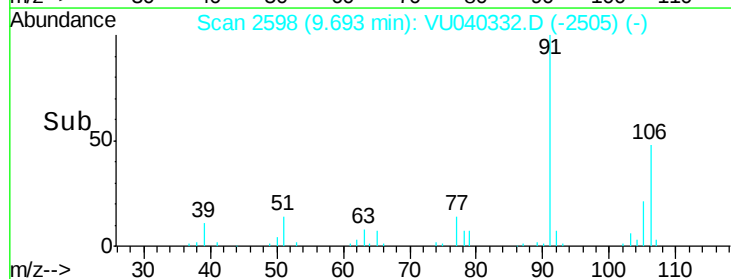
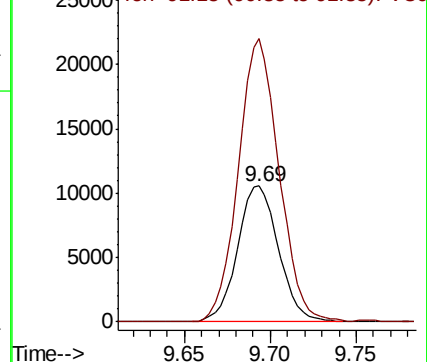
Ion Ratio Lower Upper

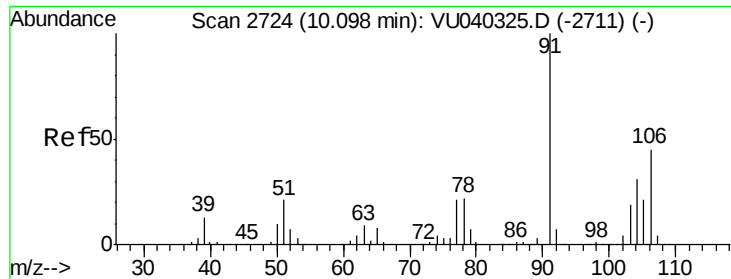
106 100

91 208.6 151.7 281.7



Abundance Ion 106.15 (105.85 to 106.85): VU040332.D (-2505) (-)

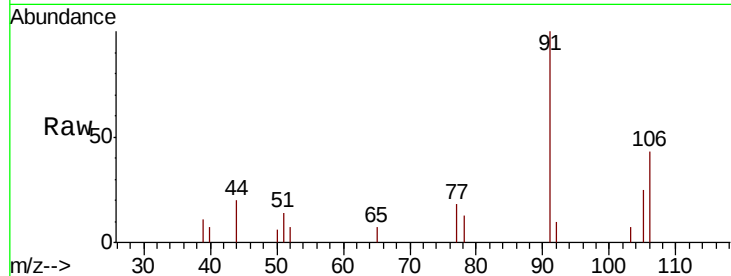




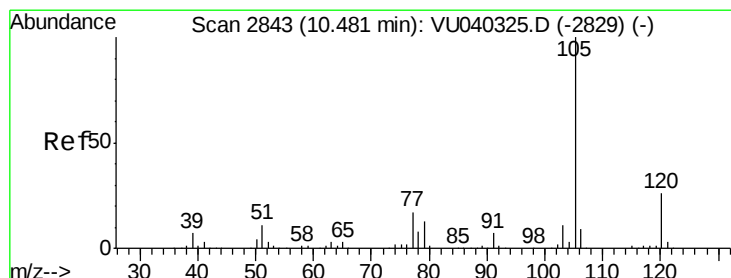
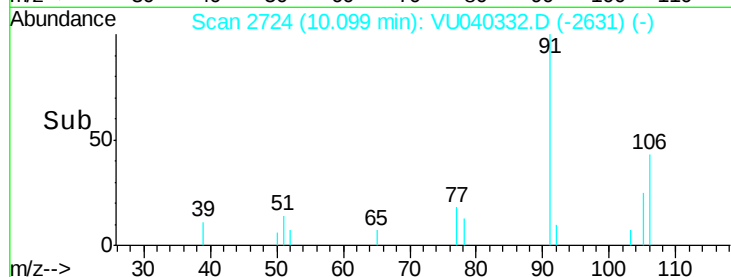
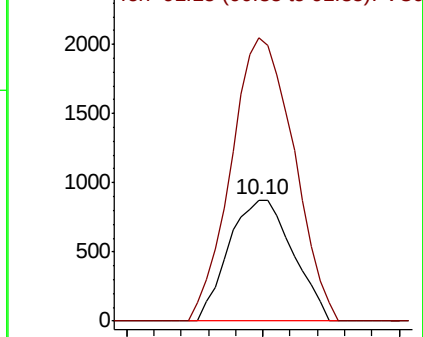
#54
o-Xylene
Concen: 0.075 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. 0.00 min
Lab File: VU040332.D
Acq: 28 Sep 2020 15:13

Instrument :
MSVOA_U
ClientSampled :
BG4A4DL

Tot Ion:106 Resp: 1425
Ion Ratio Lower Upper
106 100
91 234.0 160.8 298.6

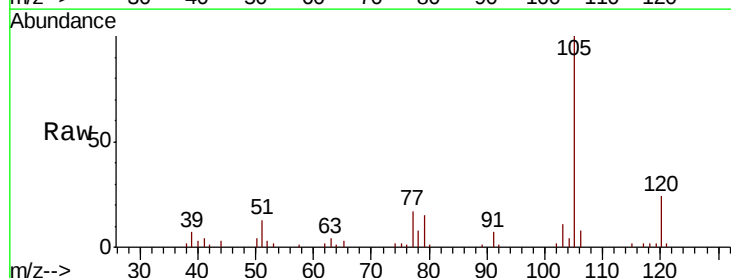


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

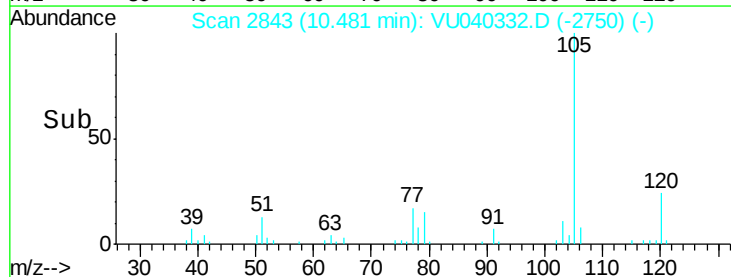
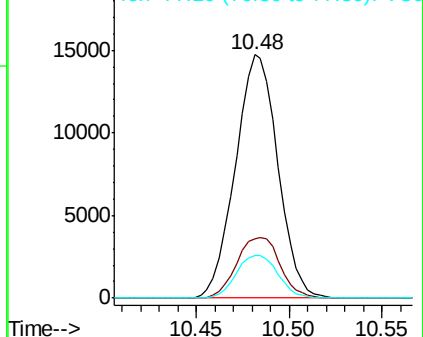


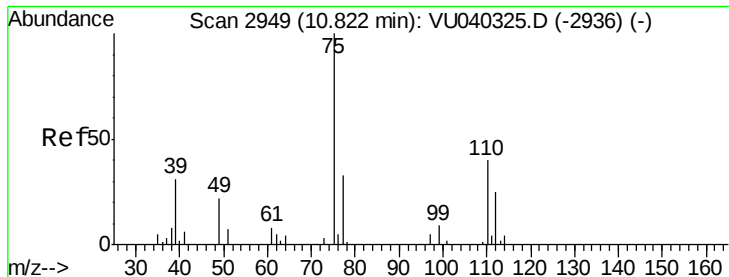
#56
Isopropylbenzene
Concen: 0.454 ug/L
RT: 10.48 min Scan# 2843
Delta R.T. 0.00 min
Lab File: VU040332.D
Acq: 28 Sep 2020 15:13

Tgt Ion:105 Resp: 23376
Ion Ratio Lower Upper
105 100
120 25.4 20.1 30.1
77 17.2 14.4 21.6



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VU0

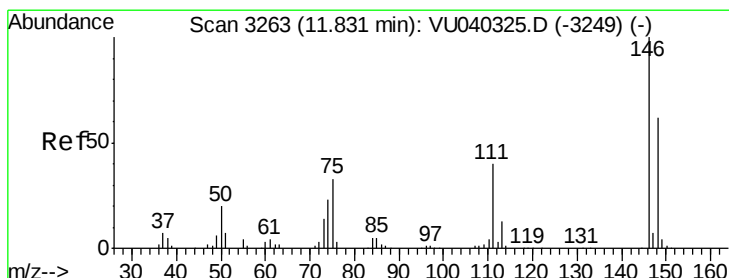
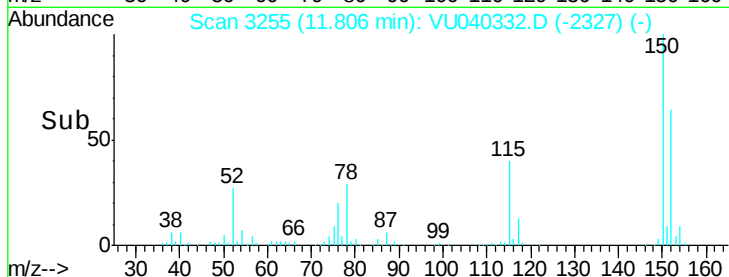
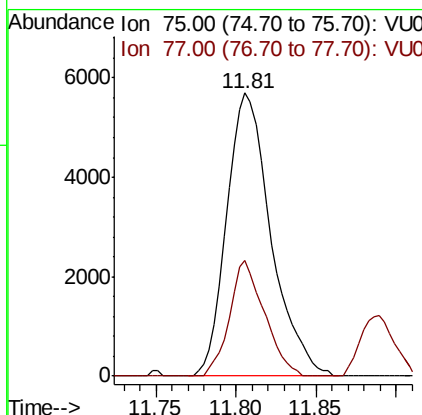
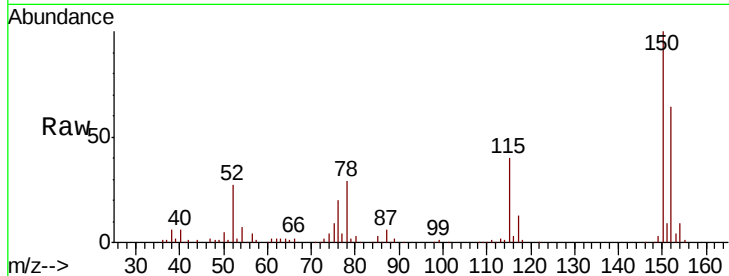




#59
 1,2,3-Trichloropropane
 Concen: 1.128 ug/L
 RT: 11.81 min Scan# 3255
 Delta R.T. 0.98 min
 Lab File: VU040332.D
 Acq: 28 Sep 2020 15:13

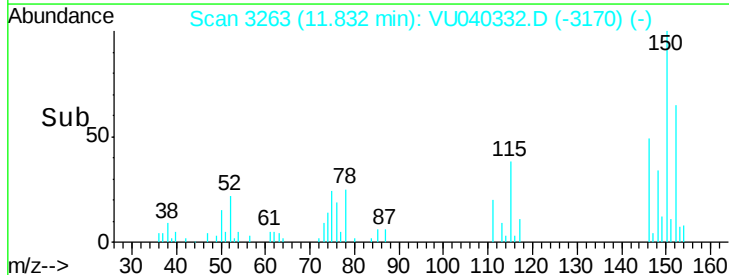
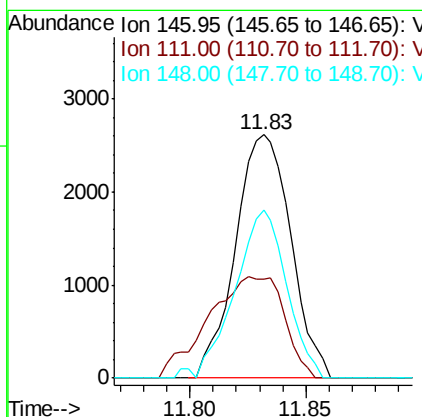
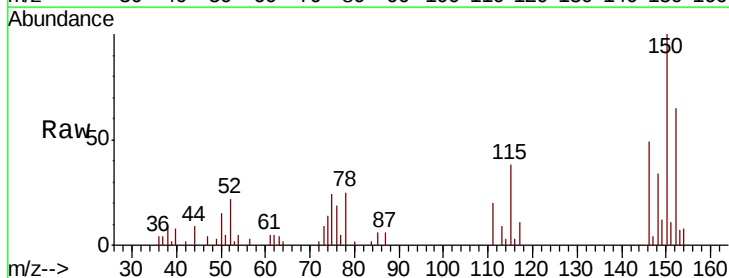
Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A4DL

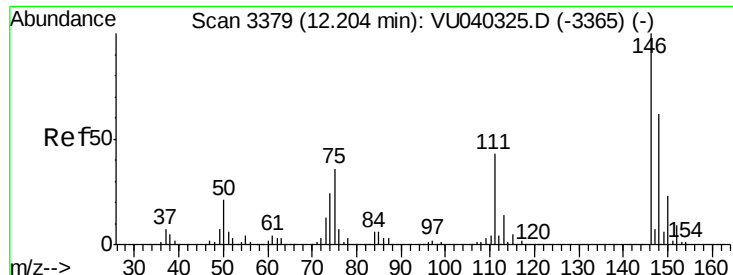
Tot Ion: 75 Resp: 10770
 Ion Ratio Lower Upper
 75 100
 77 32.1 24.9 37.3



#63
 1,4-Dichlorobenzene
 Concen: 0.179 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU040332.D
 Acq: 28 Sep 2020 15:13

Tgt Ion: 146 Resp: 4330
 Ion Ratio Lower Upper
 146 100
 111 40.6 30.5 56.7
 148 68.9 45.4 84.4

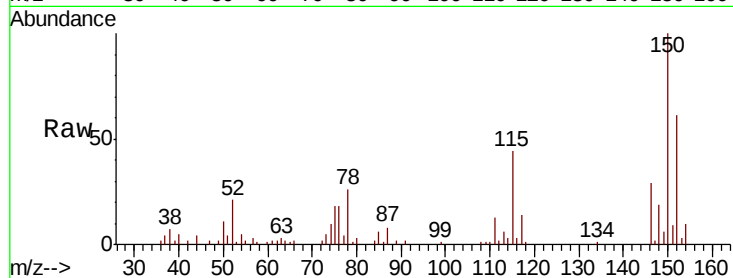




#65
 1,2-Dichlorobenzene
 Concen: 0.291 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. 0.00 min
 Lab File: VU040332.D
 Acq: 28 Sep 2020 15:13

Instrument :
 MSVOA_U
 ClientSampleId :
 BG4A4DL

Tot Ion:146 Resp: 6742
 Ion Ratio Lower Upper
 146 100
 111 45.1 36.5 54.7
 148 65.2 48.6 72.8



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

