

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU053020\
 Data File : VU038398.D
 Acq On : 29 May 2020 23:52
 Operator : JC/MD
 Sample : L2766-06
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 30 02:21:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 30 00:03:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	300668	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	294499	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	148243	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	92334	3.36	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.20%
7) Chloroethane-d5	1.93	69	86660	3.64	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.80%
11) 1,1-Dichloroethene-d2	2.59	63	141671	3.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.60%
20) 2-Butanone-d5	4.68	46	358217	52.79	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.58%
24) Chloroform-d	5.10	84	197722	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
26) 1,2-Dichloroethane-d4	5.74	65	116963	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
32) Benzene-d6	5.76	84	406253	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.72	67	128667	4.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.40%
41) Toluene-d8	7.92	98	349925	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
43) trans-1,3-Dichloropropene-	8.20	79	47839	4.19	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.80%
46) 2-Hexanone-d5	8.65	63	283235	52.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.14%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	109198	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.20%
64) 1,2-Dichlorobenzene-d4	12.20	152	144781	5.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.95	64	22566	1.130	ug/L #	80
13) Acetone	2.69	43	12676	2.978	ug/L	70
15) Methyl Acetate	3.07	43	12072	1.014	ug/L #	54
19) 1,1-Dichloroethane	3.91	63	3691	0.083	ug/L	98
27) 1,2-Dichloroethane	5.81	62	16316	0.557	ug/L #	73
30) Cyclohexane	5.42	56	15842	0.398	ug/L	98
33) Benzene	5.81	78	1926163	20.424	ug/L	100
35) Methylcyclohexane	6.79	83	8662	0.227	ug/L	88
37) 1,2-Dichloropropane	6.72	63	14138	0.552	ug/L #	94
39) cis-1,3-Dichloropropene	7.59	75	3080	0.084	ug/L #	49
42) Toluene	7.99	91	12786	0.128	ug/L	94
45) 1,1,2-Trichloroethane	8.39	97	1963	0.110	ug/L #	15
48) 2-Hexanone	8.71	43	16425	1.263	ug/L #	89
51) Chlorobenzene	9.47	112	487361	7.888	ug/L	99
52) Ethylbenzene	9.59	91	12038	0.112	ug/L	93
53) m,p-Xylene	9.71	106	14741	0.356	ug/L	95
54) o-Xylene	10.11	106	3423	0.086	ug/L	80

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat May 30 00:03:10 2020
Response via : Initial Calibration

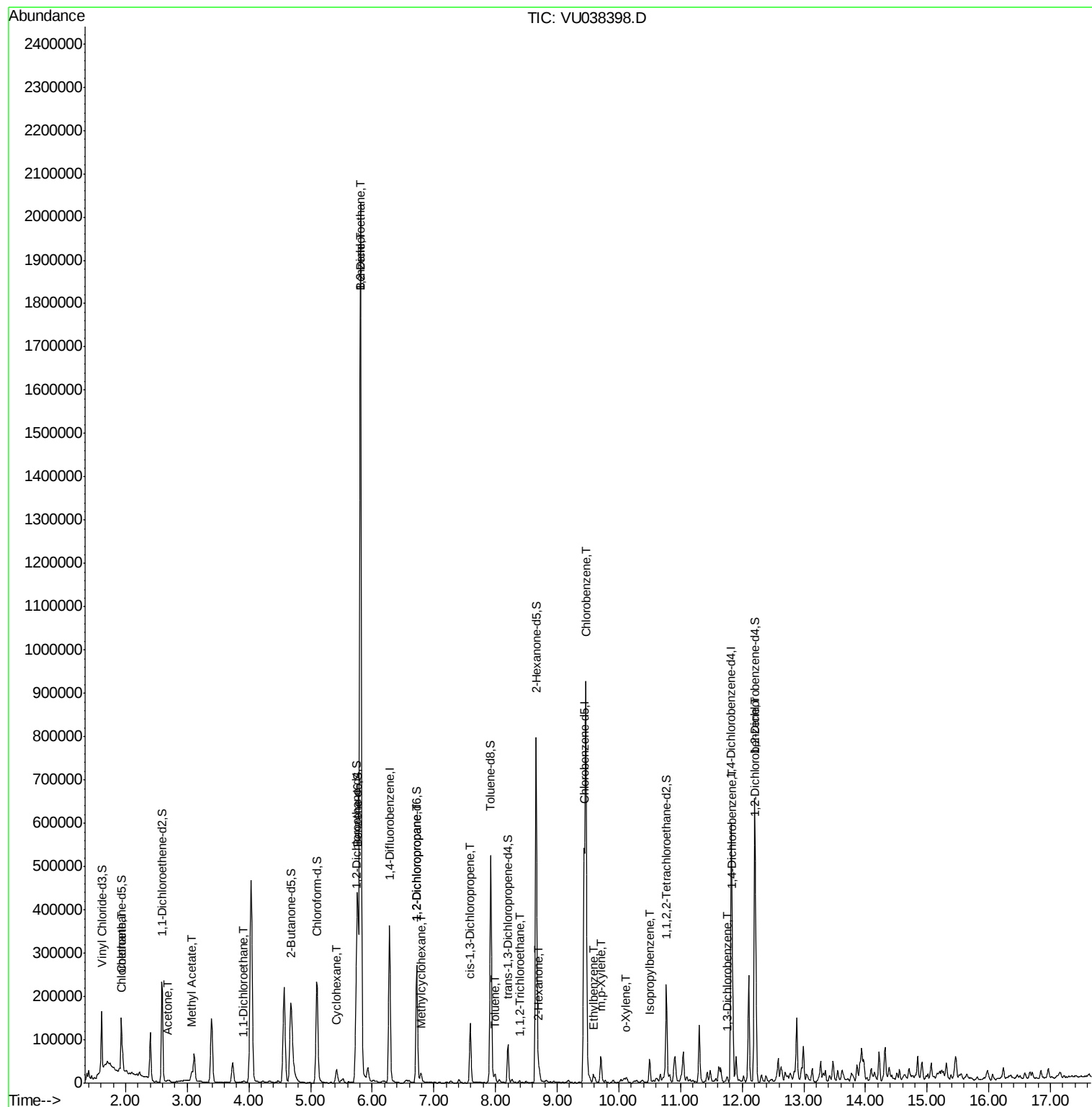
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.50	105	33854	0.330	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	4168	0.086	ug/L	81
63) 1,4-Dichlorobenzene	11.85	146	62555	1.280	ug/L	98
65) 1,2-Dichlorobenzene	12.22	146	64581	1.392	ug/L	97

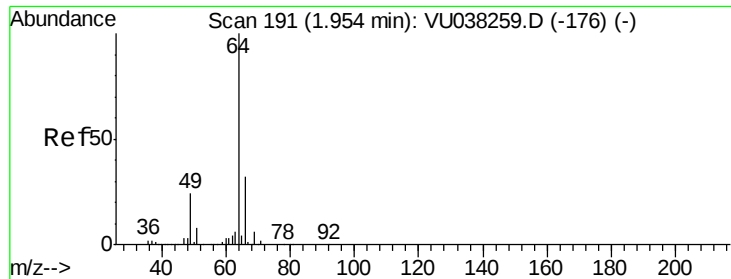
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 1.130 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

Instrument :

MSVOA_U

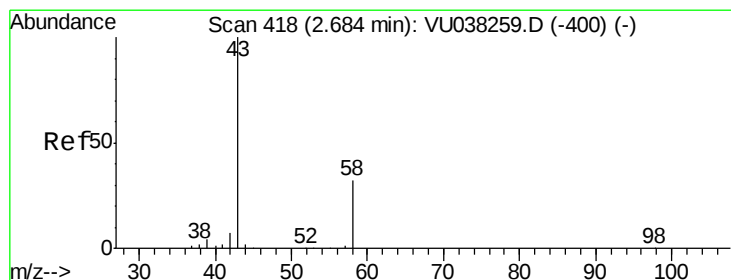
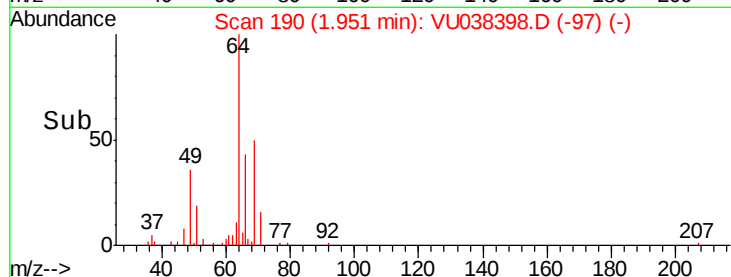
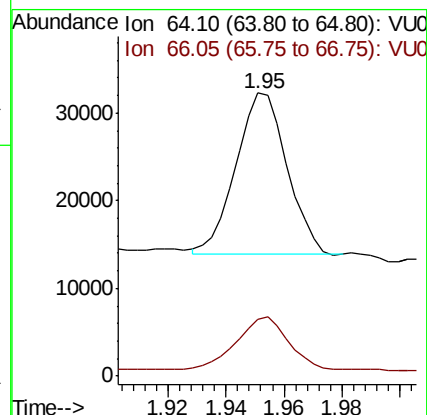
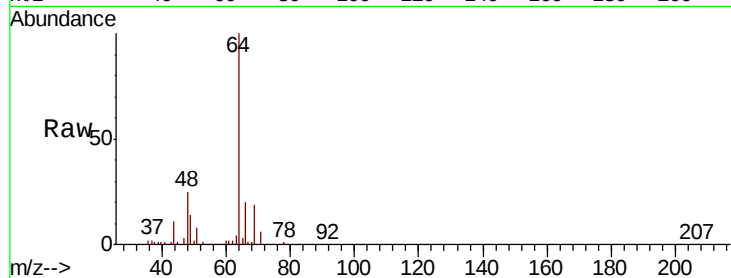
ClientSampleId :

Tot Ion: 64 Resp: 22566

Ion Ratio Lower Upper

64 100

66 19.9 21.8 40.4#



#13

Acetone

Concen: 2.978 ug/L

RT: 2.69 min Scan# 419

Delta R.T. -0.00 min

Lab File: VU038398.D

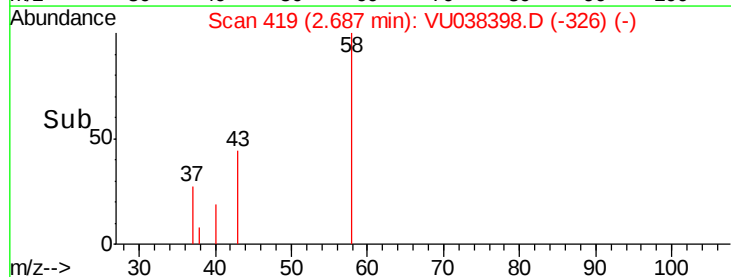
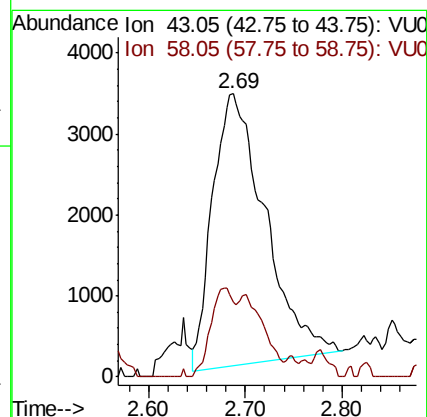
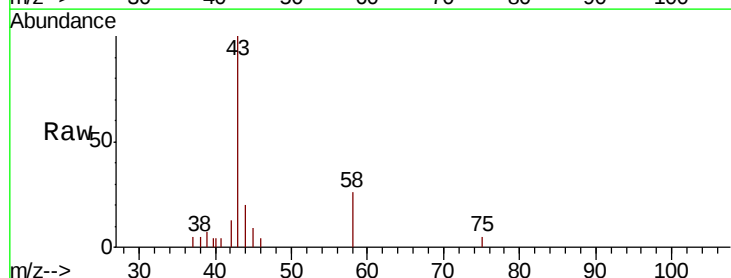
Acq: 29 May 2020 23:52

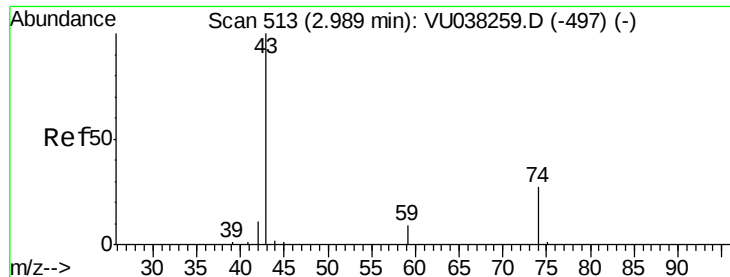
Tgt Ion: 43 Resp: 12676

Ion Ratio Lower Upper

43 100

58 15.0 0.0 63.6





#15

Methyl Acetate

Concen: 1.014 ug/L

RT: 3.07 min Scan# 539

Delta R.T. 0.08 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

Instrument :

MSVOA_U

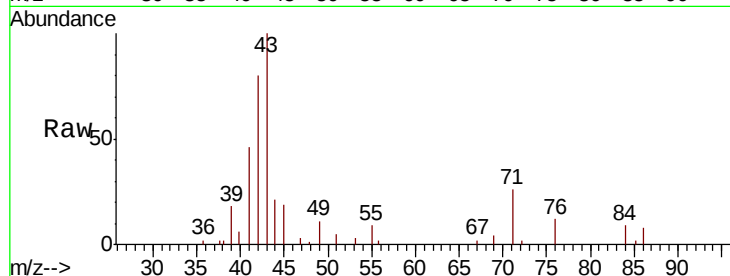
ClientSampled :

Tot Ion: 43 Resp: 12072

Ion Ratio Lower Upper

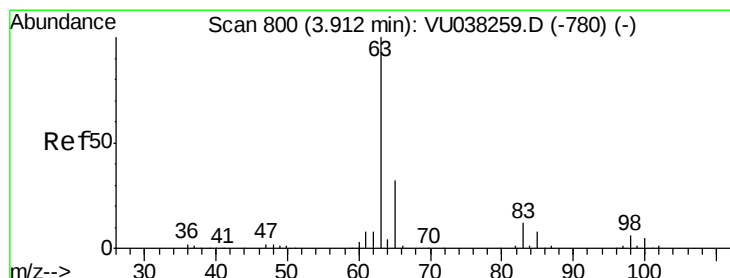
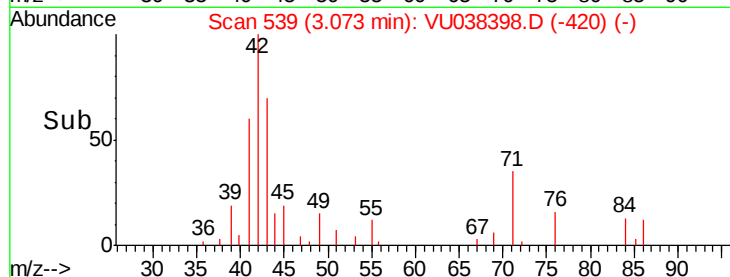
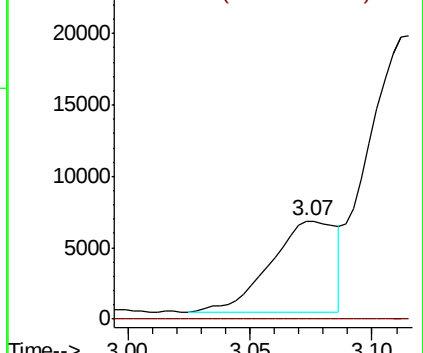
43 100

74 0.4 18.0 27.0#



Abundance Ion 43.05 (42.75 to 43.75): VU038259.D (-497) (-)

Ion 74.05 (73.75 to 74.75): VU038259.D (-497) (-)



#19

1,1-Dichloroethane

Concen: 0.083 ug/L

RT: 3.91 min Scan# 798

Delta R.T. -0.00 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

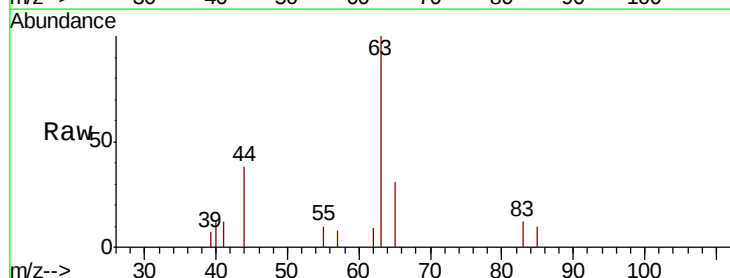
Tgt Ion: 63 Resp: 3691

Ion Ratio Lower Upper

63 100

65 30.9 22.5 41.7

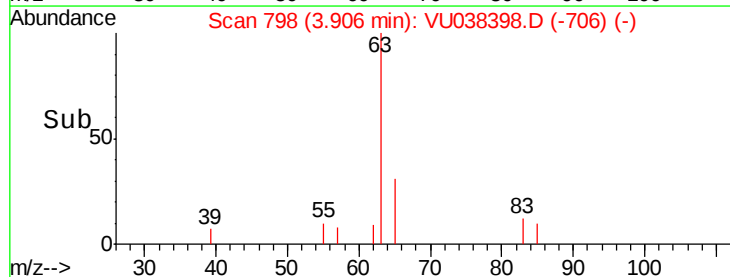
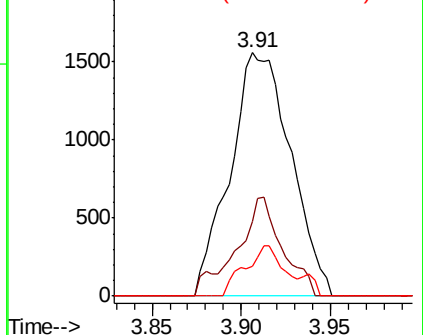
83 12.2 8.9 16.5

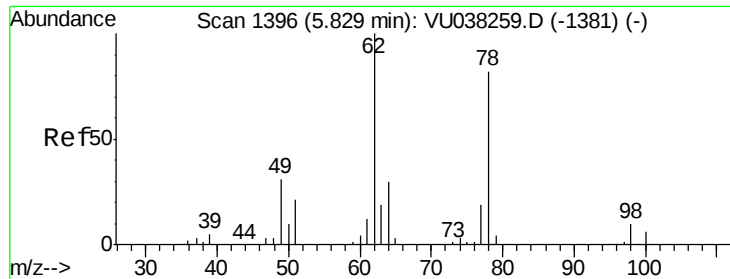


Abundance Ion 63.10 (62.80 to 63.80): VU038259.D (-780) (-)

Ion 65.10 (64.80 to 65.80): VU038259.D (-780) (-)

Ion 83.05 (82.75 to 83.75): VU038259.D (-780) (-)

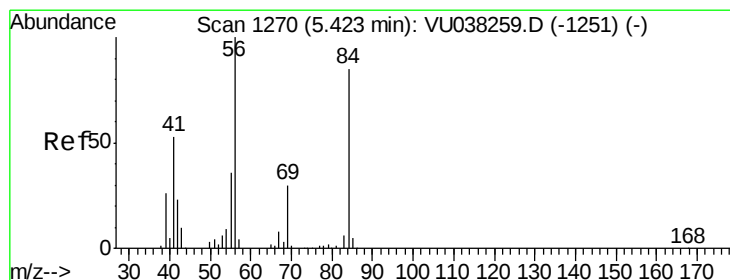
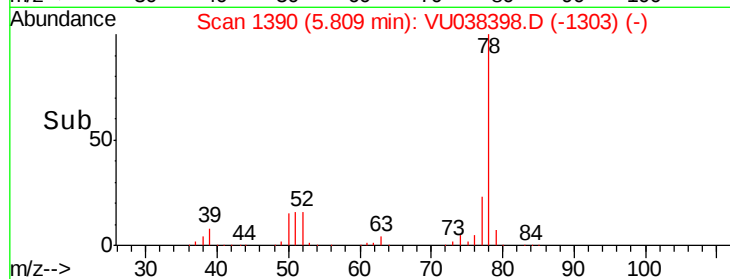
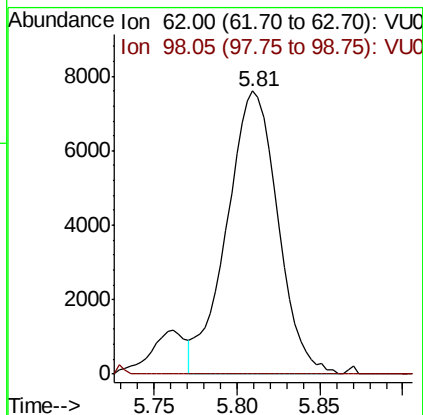
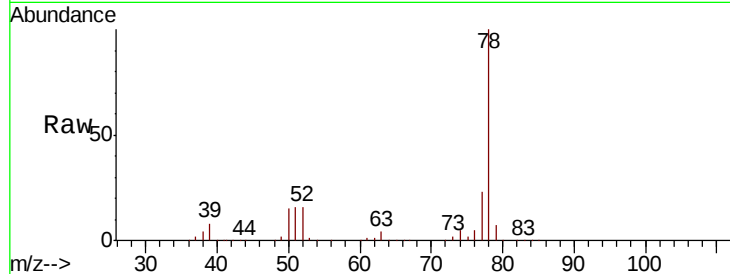




#27
 1,2-Dichloroethane
 Concen: 0.557 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. -0.02 min
 Lab File: VU038398.D
 Acq: 29 May 2020 23:52

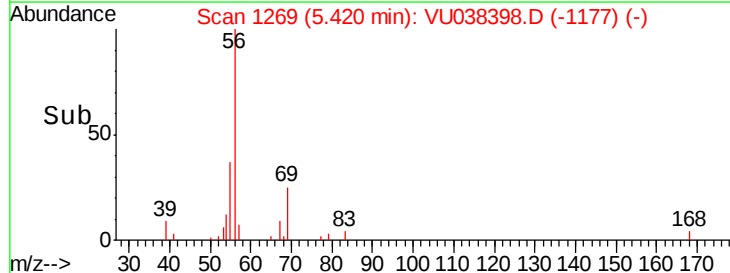
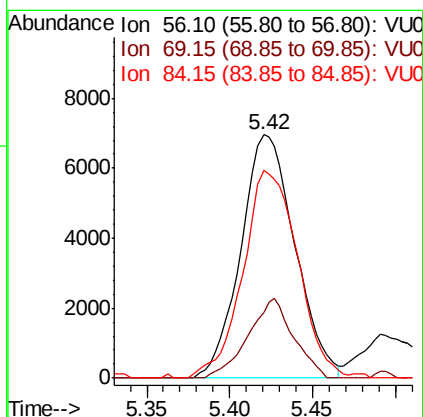
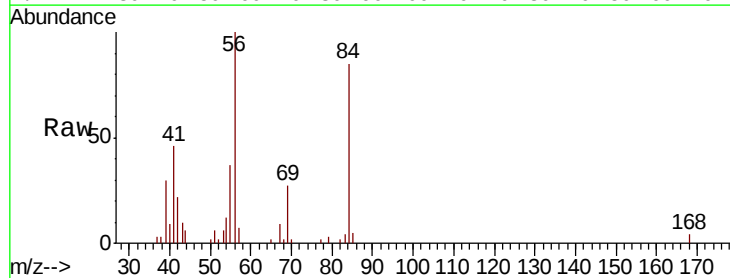
Instrument :
 MSVOA_U
 ClientSampleId :

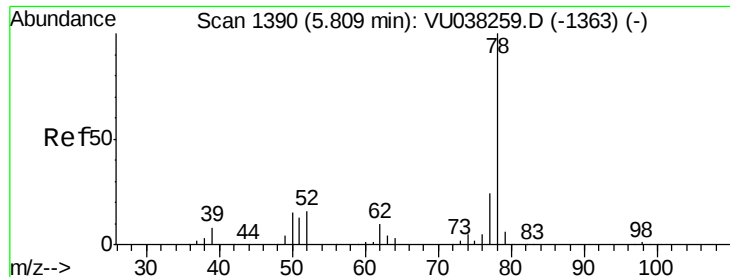
Tot Ion: 62 Resp: 16316
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.8 11.8#



#30
 Cyclohexane
 Concen: 0.398 ug/L
 RT: 5.42 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VU038398.D
 Acq: 29 May 2020 23:52

Tgt Ion: 56 Resp: 15842
 Ion Ratio Lower Upper
 56 100
 69 27.4 24.2 36.4
 84 86.1 68.5 102.7





#33

Benzene

Concen: 20.424 ug/L

RT: 5.81 min Scan# 1390

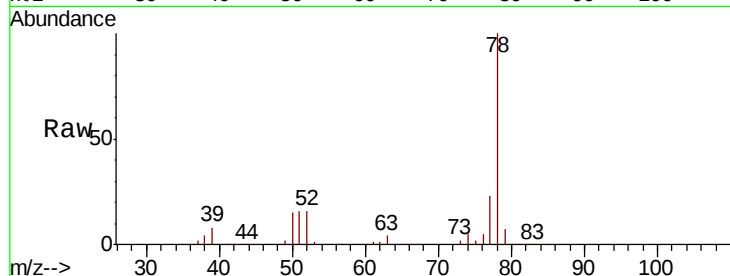
Delta R.T. -0.00 min

Lab File: VU038398.D

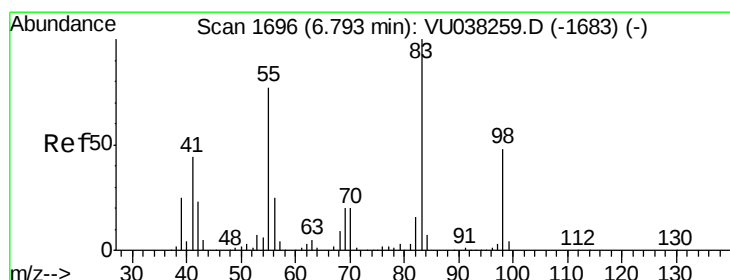
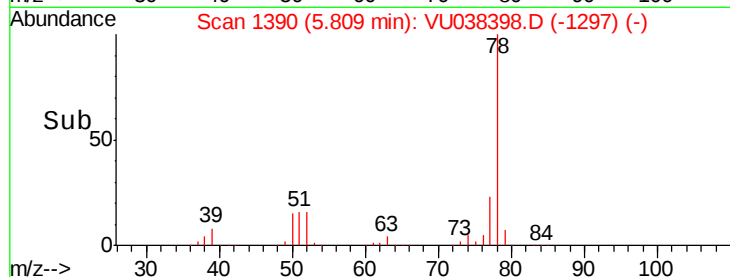
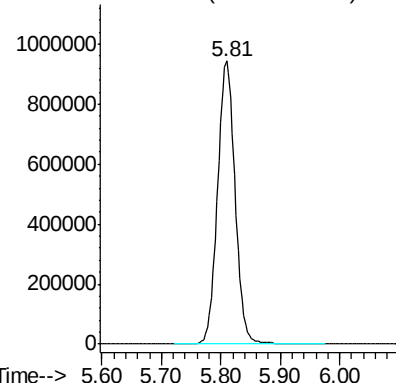
Acq: 29 May 2020 23:52

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 1926163



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.227 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU038398.D

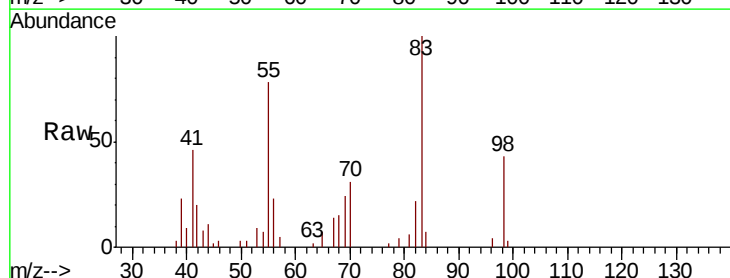
Acq: 29 May 2020 23:52

Tgt Ion: 83 Resp: 8662

Ion	Ratio	Lower	Upper
83	100		

55	99.9	66.7	100.1
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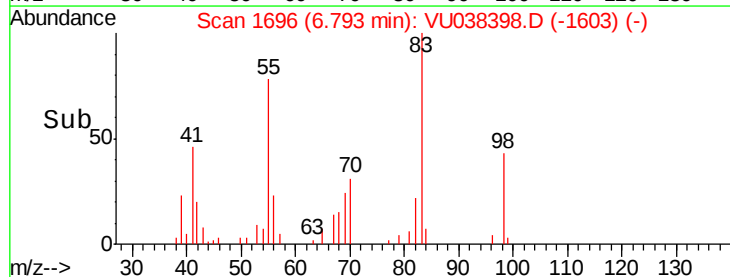
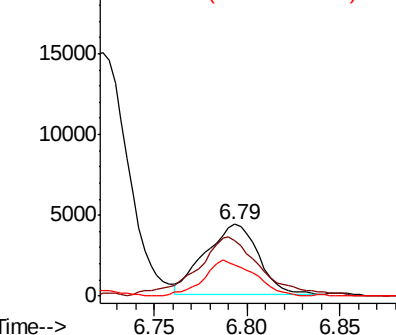
98	48.3	39.4	59.2
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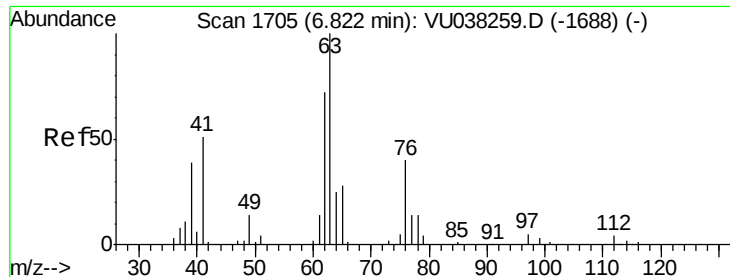


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

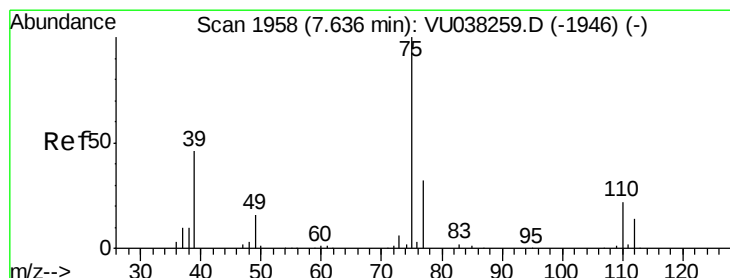
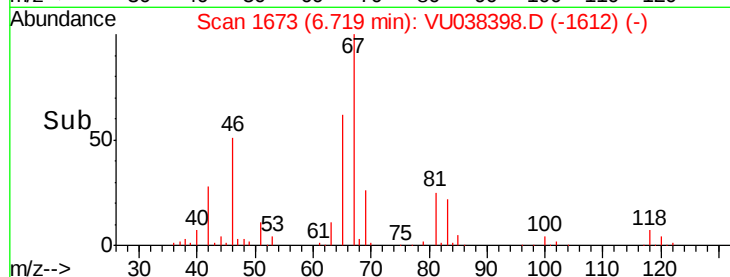
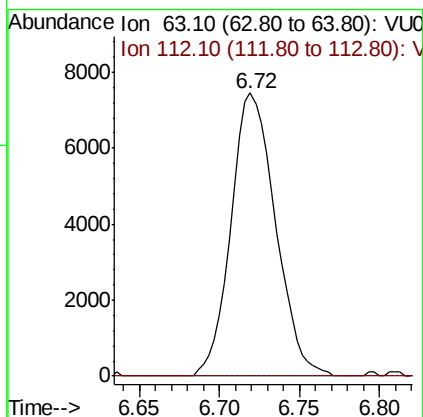
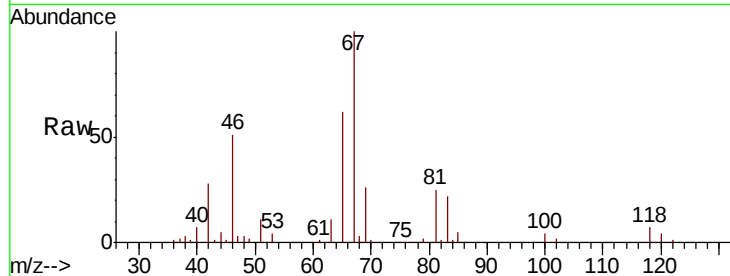




#37
 1,2-Dichloropropane
 Concen: 0.552 ug/L
 RT: 6.72 min Scan# 1673
 Delta R.T. -0.10 min
 Lab File: VU038398.D
 Acq: 29 May 2020 23:52

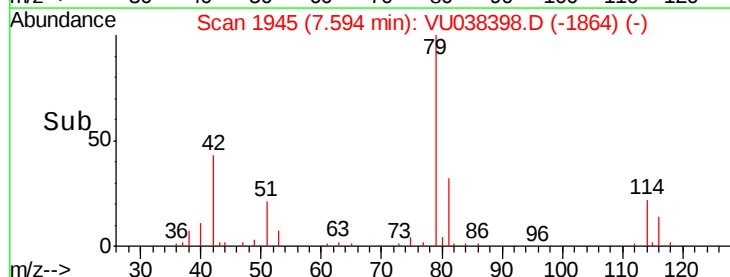
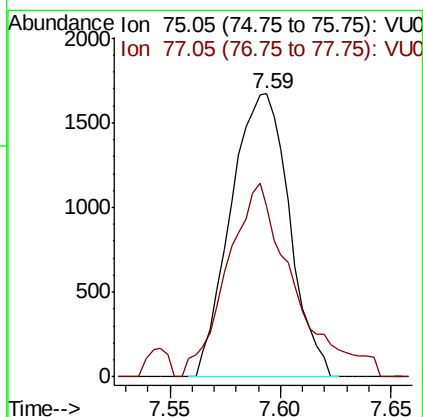
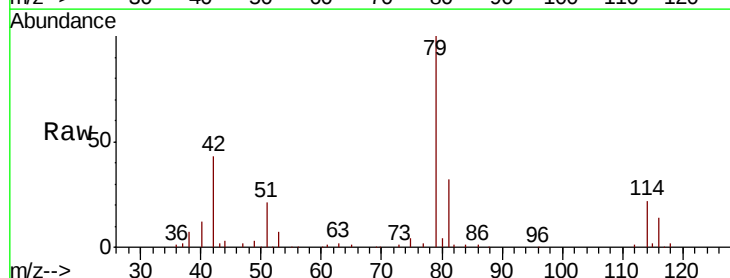
Instrument :
 MSVOA_U
 ClientSampleId :

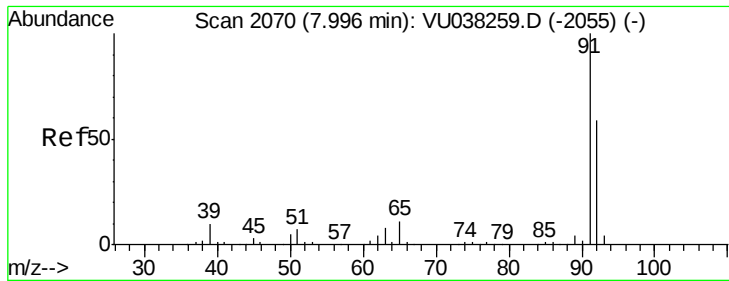
Tot Ion: 63 Resp: 14138
 Ion Ratio Lower Upper
 63 100
 112 1.8 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.084 ug/L
 RT: 7.59 min Scan# 1945
 Delta R.T. -0.04 min
 Lab File: VU038398.D
 Acq: 29 May 2020 23:52

Tgt Ion: 75 Resp: 3080
 Ion Ratio Lower Upper
 75 100
 77 60.2 22.4 41.6#





#42

Toluene

Concen: 0.128 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

Instrument :

MSVOA_U

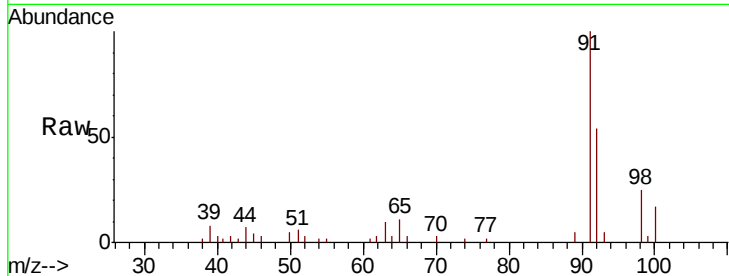
ClientSampleId :

Tot Ion: 91 Resp: 12786

Ion Ratio Lower Upper

91 100

92 53.7 40.9 75.9



Abundance Ion 91.15 (90.85 to 91.85): VU038259.D (-2055) (-)

Ion 92.15 (91.85 to 92.85): VU038259.D (-2055) (-)

7.99

8000

6000

4000

2000

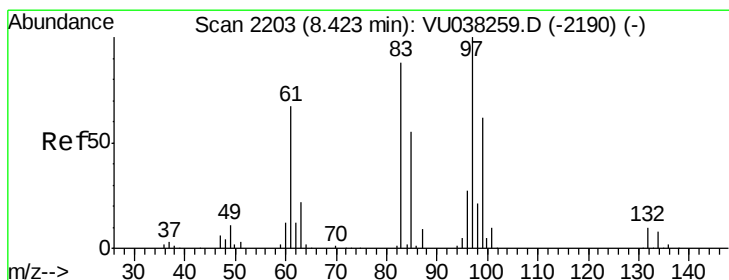
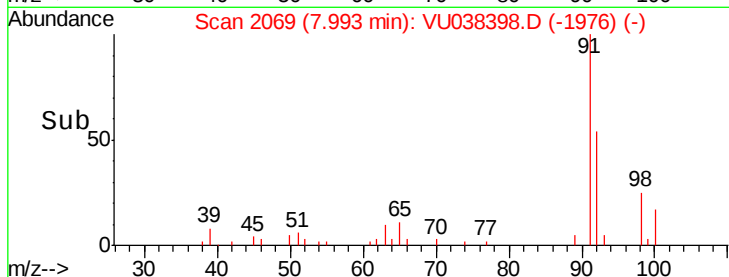
0

7.95

8.00

8.05

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.110 ug/L

RT: 8.39 min Scan# 2193

Delta R.T. -0.03 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

Tgt Ion: 97 Resp: 1963

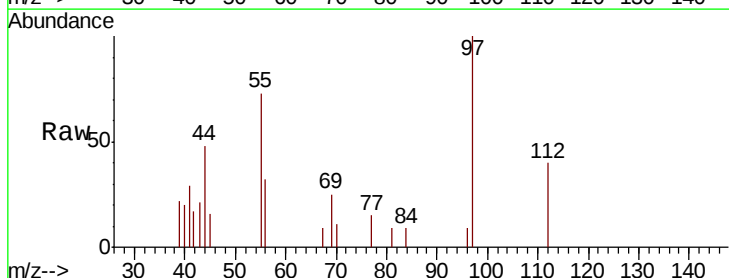
Ion Ratio Lower Upper

97 100

99 0.0 44.0 81.6#

83 0.0 59.6 110.8#

85 0.0 41.3 76.7#



Abundance Ion 96.95 (96.65 to 97.65): VU038259.D (-2190) (-)

Ion 99.05 (98.75 to 99.75): VU038259.D (-2190) (-)

Ion 82.95 (82.65 to 83.65): VU038259.D (-2190) (-)

Ion 85.00 (84.70 to 85.70): VU038259.D (-2190) (-)

2000

1500

1000

500

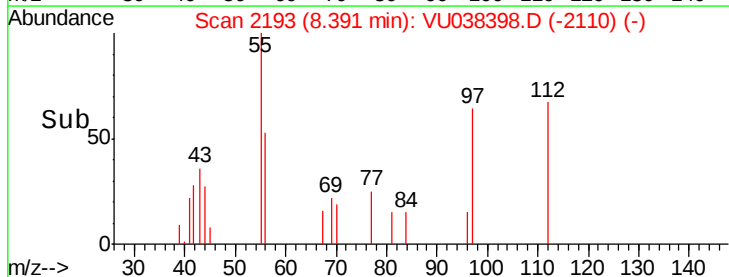
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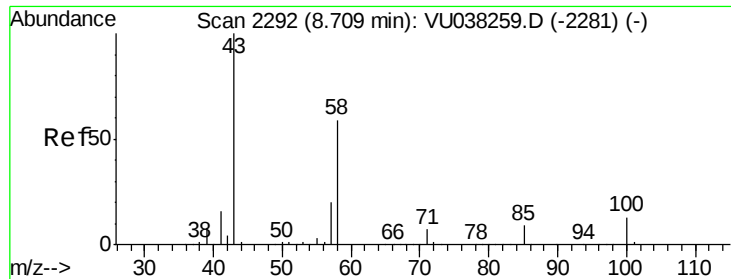
8.35

8.40

8.45

Time-->

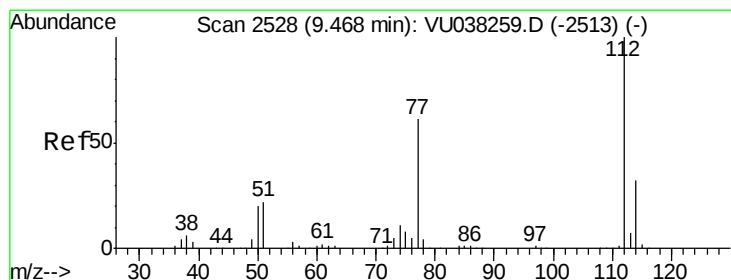
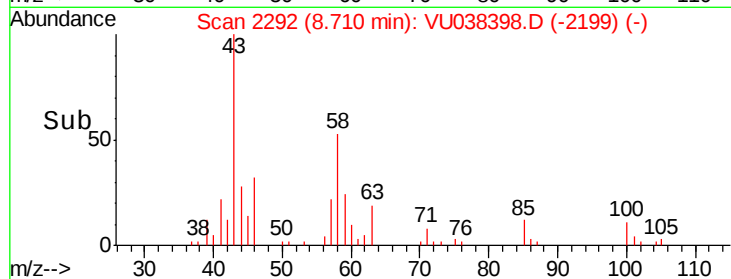
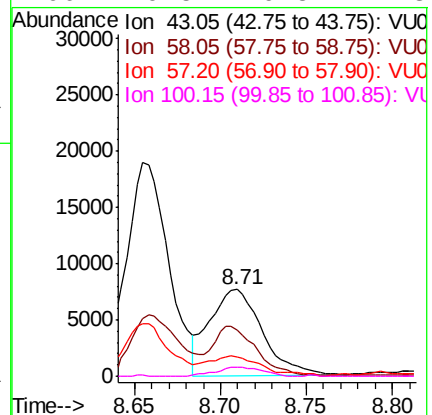
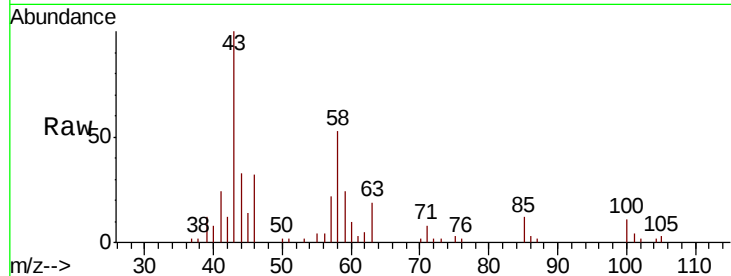




#48
2-Hexanone
Concen: 1.263 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU038398.D
Acq: 29 May 2020 23:52

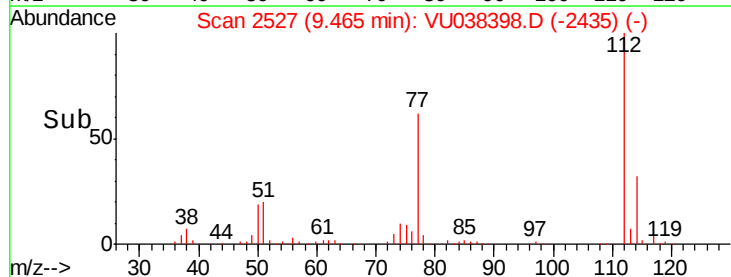
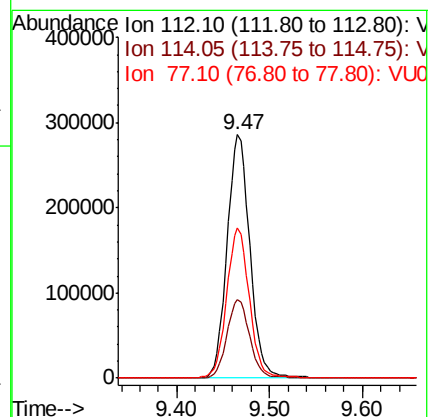
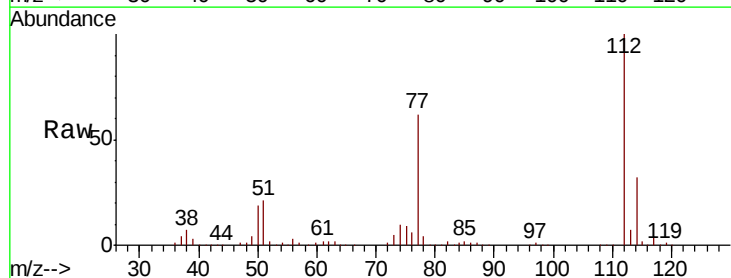
Instrument :
MSVOA_U
ClientSampled :

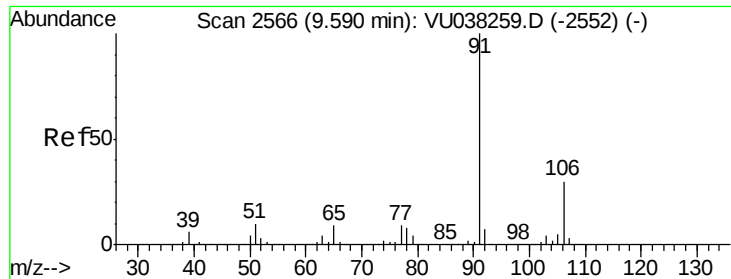
Tot Ion: 43 Resp: 16425
Ion Ratio Lower Upper
43 100
58 47.5 45.2 67.8
57 23.6 15.5 23.3#
100 9.5 9.5 14.3#



#51
Chlorobenzene
Concen: 7.888 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038398.D
Acq: 29 May 2020 23:52

Tgt Ion: 112 Resp: 487361
Ion Ratio Lower Upper
112 100
114 32.2 22.5 41.7
77 61.5 49.9 74.9





#52

Ethylbenzene

Concen: 0.112 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

Instrument :

MSVOA_U

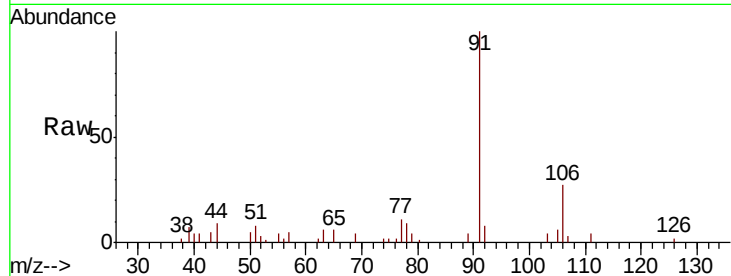
ClientSampleId :

Tot Ion: 91 Resp: 12038

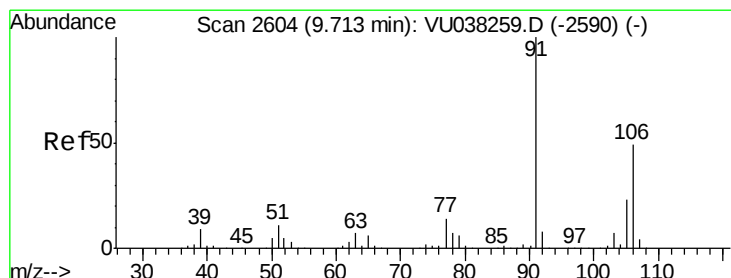
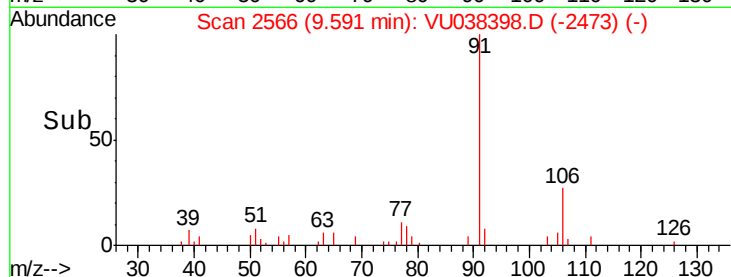
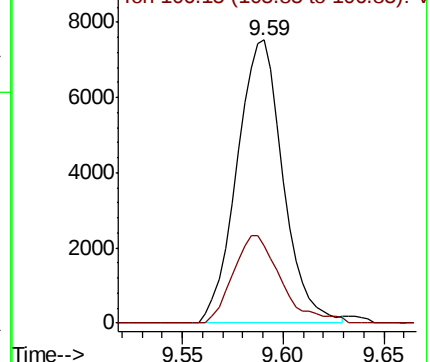
Ion Ratio Lower Upper

91 100

106 27.3 21.8 40.4



Abundance Ion 91.15 (90.85 to 91.85): VU038259.D (-2552) (-)



#53

m,p-Xylene

Concen: 0.356 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038398.D

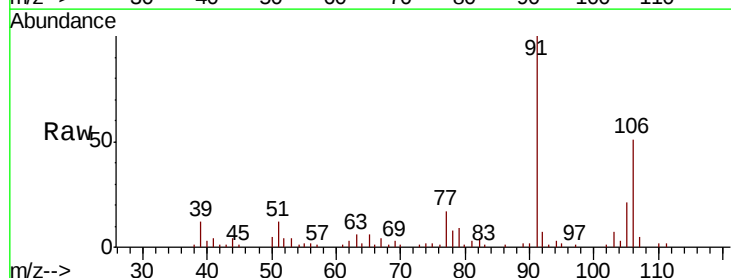
Acq: 29 May 2020 23:52

Tgt Ion: 106 Resp: 14741

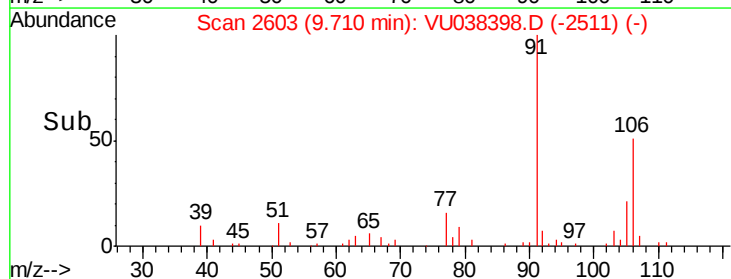
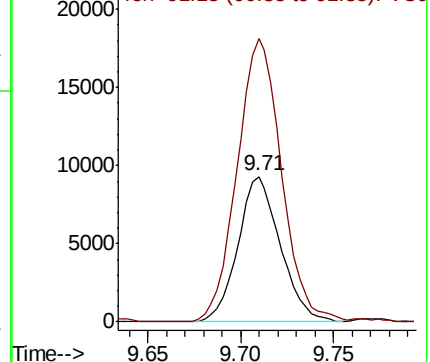
Ion Ratio Lower Upper

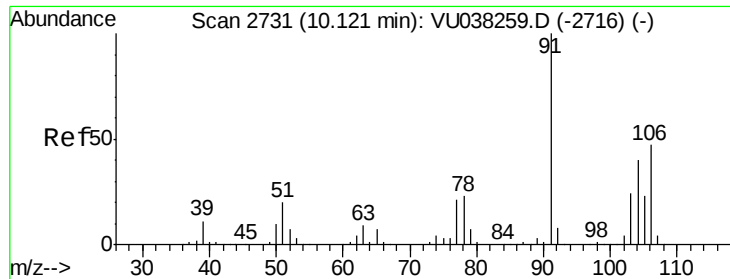
106 100

91 195.0 142.1 263.9



Abundance Ion 106.15 (105.85 to 106.85): VU038259.D (-2590) (-)

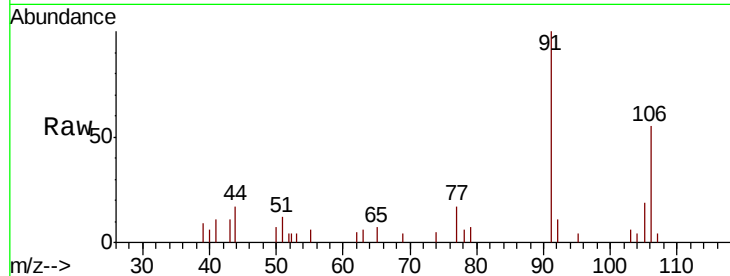




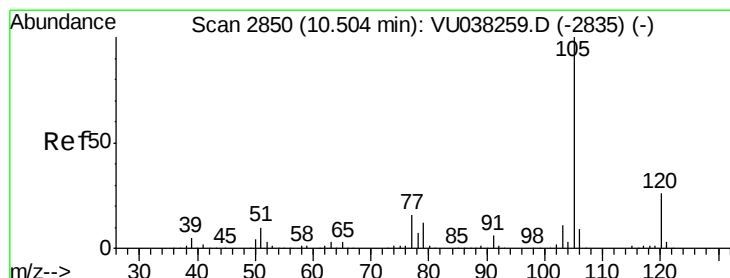
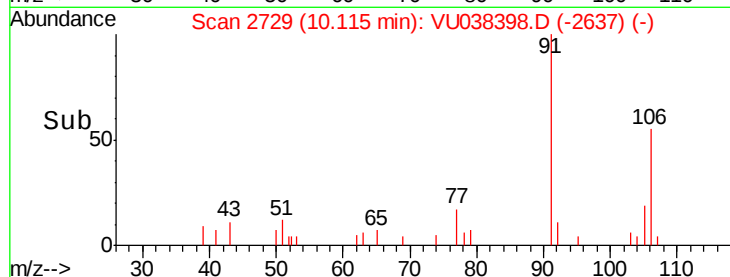
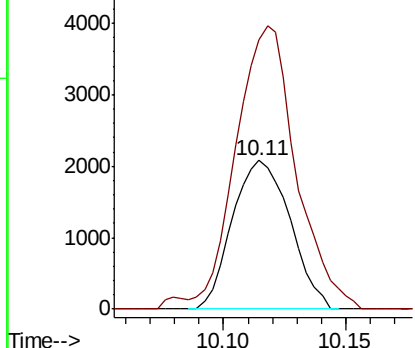
#54
o-Xylene
Concen: 0.086 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU038398.D
Acq: 29 May 2020 23:52

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 3423
Ion Ratio Lower Upper
106 100
91 181.1 148.5 275.9

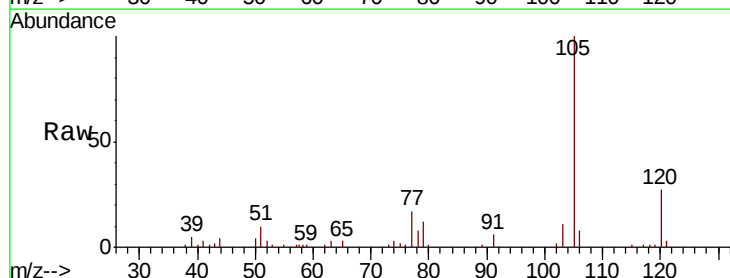


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

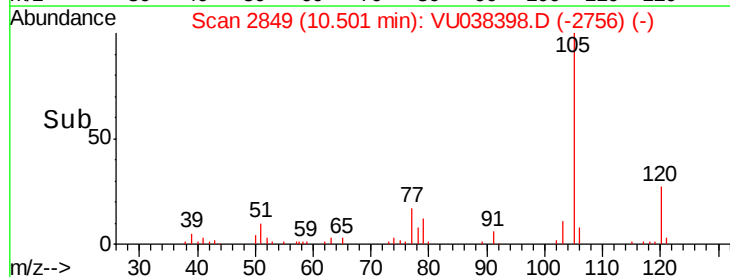
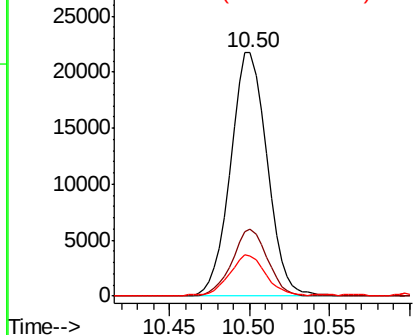


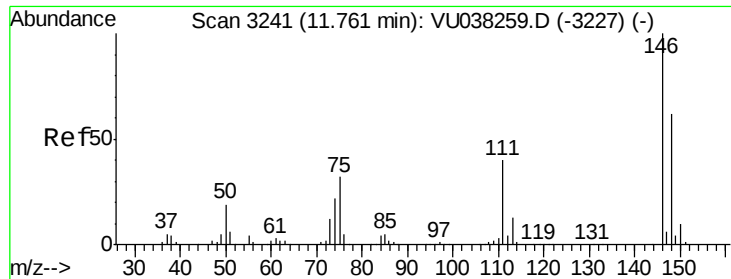
#56
Isopropylbenzene
Concen: 0.330 ug/L
RT: 10.50 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VU038398.D
Acq: 29 May 2020 23:52

Tgt Ion:105 Resp: 33854
Ion Ratio Lower Upper
105 100
120 26.5 21.0 31.6
77 17.1 13.0 19.4



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





#62

1,3-Dichlorobenzene

Concen: 0.086 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

Instrument :

MSVOA_U

ClientSampleId :

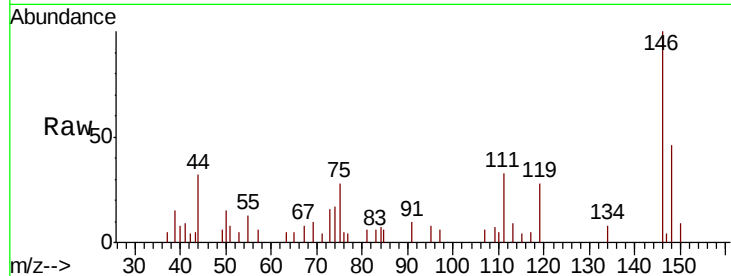
Tot Ion:146 Resp: 4168

Ion Ratio Lower Upper

146 100

111 33.0 28.6 53.2

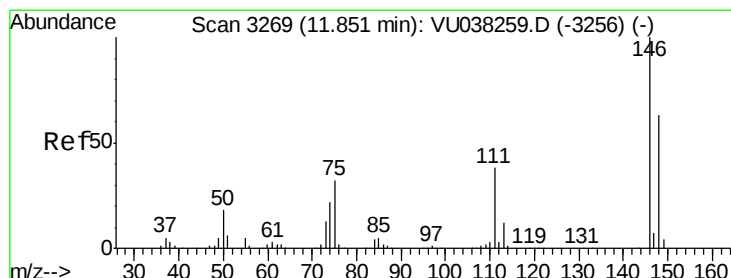
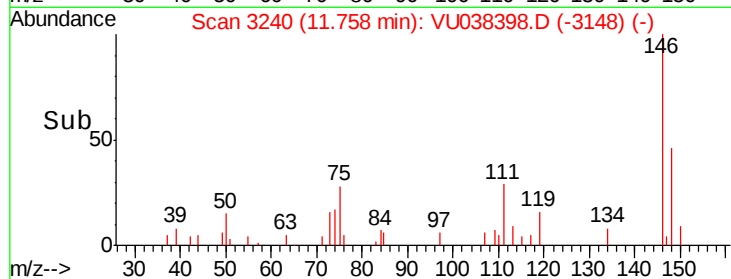
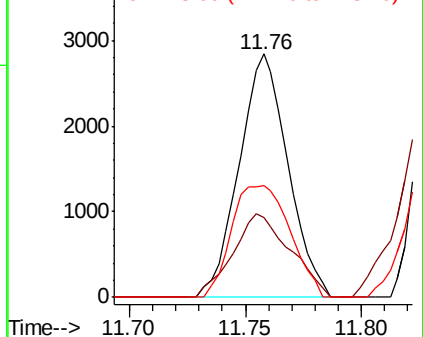
148 46.0 45.2 84.0



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



#63

1,4-Dichlorobenzene

Concen: 1.280 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

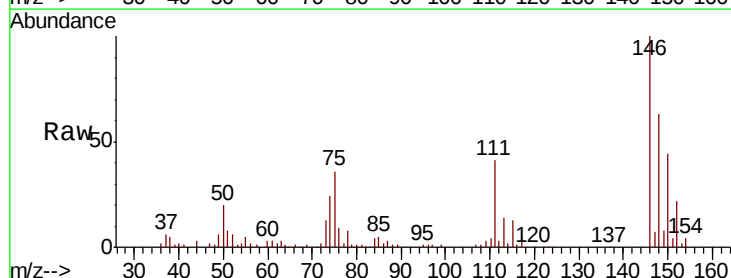
Tgt Ion:146 Resp: 62555

Ion Ratio Lower Upper

146 100

111 41.3 27.2 50.6

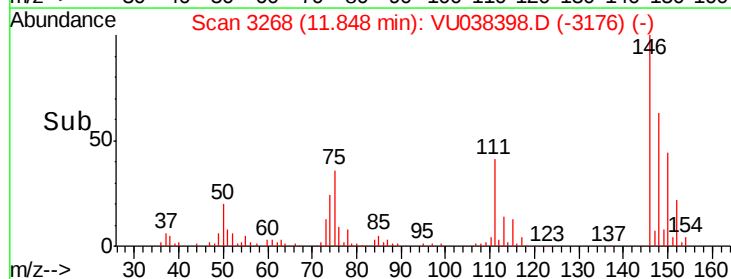
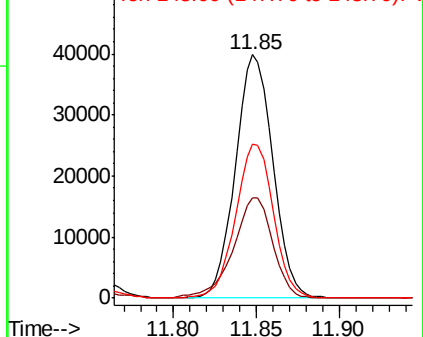
148 63.3 43.8 81.3

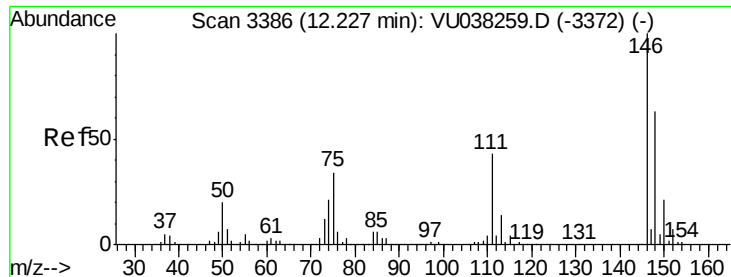


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 1.392 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038398.D

Acq: 29 May 2020 23:52

Instrument :

MSVOA_U

ClientSampleId :

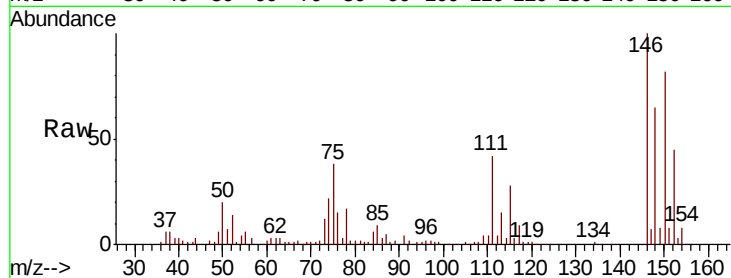
Tot Ion:146 Resp: 64581

Ion Ratio Lower Upper

146 100

111 41.9 35.3 52.9

148 65.3 51.0 76.4



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

