

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030620\
 Data File : VU037102.D
 Acq On : 06 Mar 2020 12:28
 Operator : JC/MD
 Sample : L1780-03DL 100X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 07 00:02:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 06 23:54:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	267952	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	256492	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	97071	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	88089	39.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.30%
7) Chloroethane-d5	1.93	69	80217	43.08	ug/L	0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.16%
11) 1,1-Dichloroethene-d2	2.59	63	115745	30.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	61.44%
21) 2-Butanone-d5	4.67	46	119434	79.13	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	79.13%
24) Chloroform-d	5.11	84	143607	41.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.58%
26) 1,2-Dichloroethane-d4	5.74	65	100463	43.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.40%
32) Benzene-d6	5.76	84	316395	42.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.32%
36) 1,2-Dichloropropane-d6	6.72	67	103106	42.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	85.82%
41) Toluene-d8	7.93	98	282136	41.00	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.00%
43) trans-1,3-Dichloropropene-	8.20	79	41135	36.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.66%
47) 2-Hexanone-d5	8.66	63	80640	68.63	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	68.63%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	137491	40.58	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	81.16%
64) 1,2-Dichlorobenzene-d4	12.21	152	84721	44.65	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.30%

Target Compounds

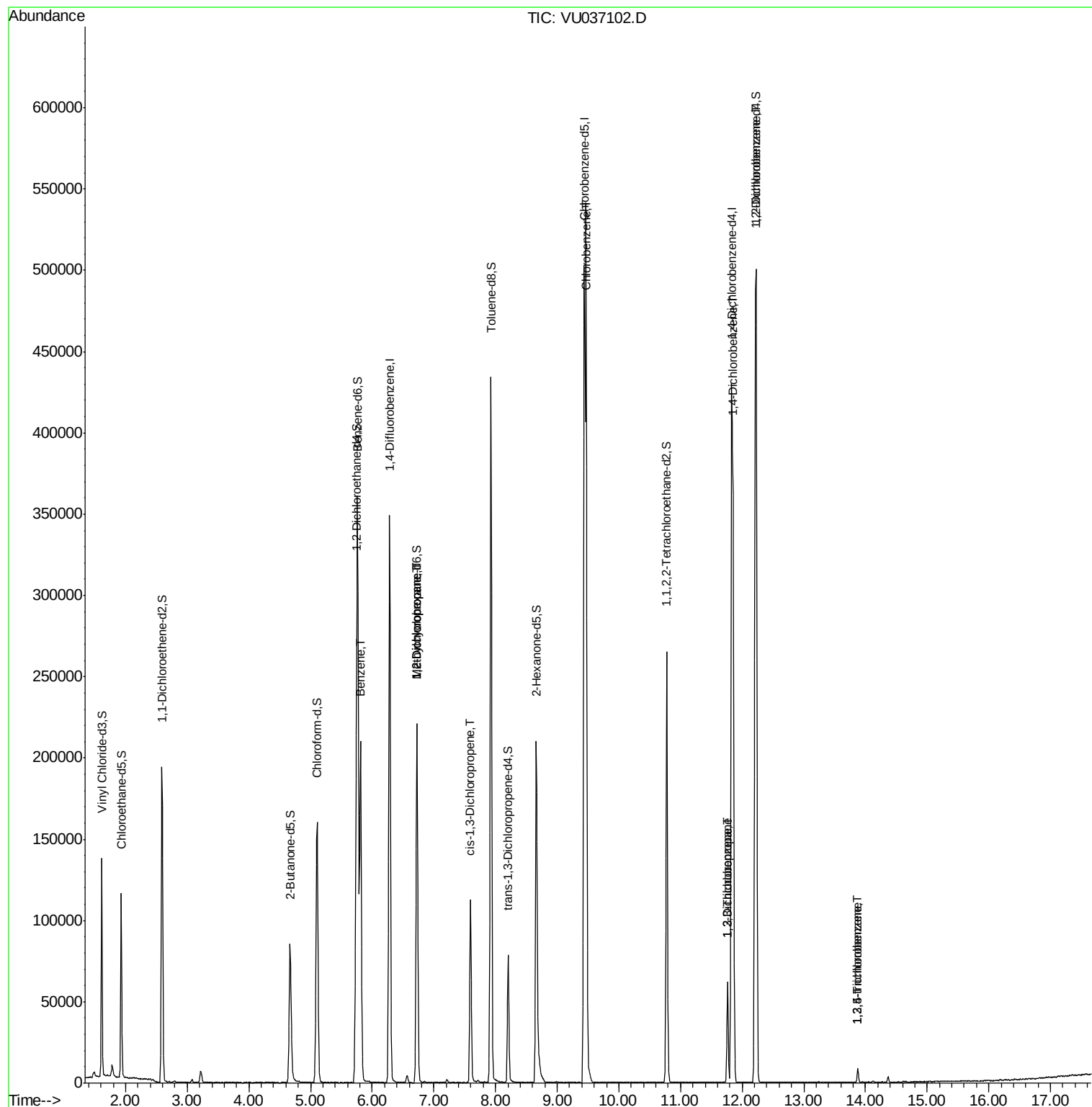
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
33) Benzene	5.81	78	193461	23.875	ug/L	100
35) Methylcyclohexane	6.72	83	22083	6.395	ug/L #	19
37) 1,2-Dichloropropane	6.73	63	11134	5.103	ug/L #	88
39) cis-1,3-Dichloropropene	7.59	75	2676	0.796	ug/L #	60
51) Chlorobenzene	9.47	112	259088	50.652	ug/L	99
59) 1,2,3-Trichloropropane	11.76	75	8690	3.096	ug/L #	42
62) 1,3-Dichlorobenzene	11.76	146	24139	7.666	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	122778	39.464	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	148263	47.155	ug/L	99
67) 1,3,5-Trichlorobenzene	13.88	180	2757	1.379	ug/L	92
68) 1,2,4-trichlorobenzene	13.88	180	2757	1.841	ug/L	92

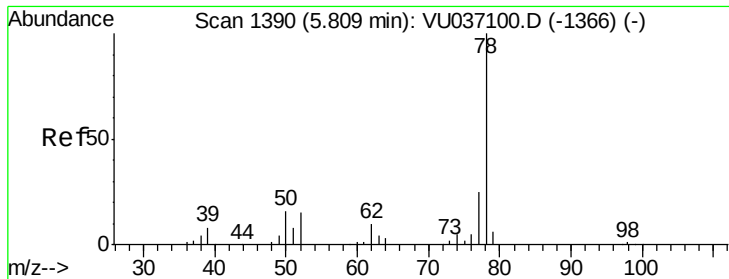
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 06 23:54:55 2020
Response via : Initial Calibration





#33

Benzene

Concen: 23.875 ug/L

RT: 5.81 min Scan# 1390

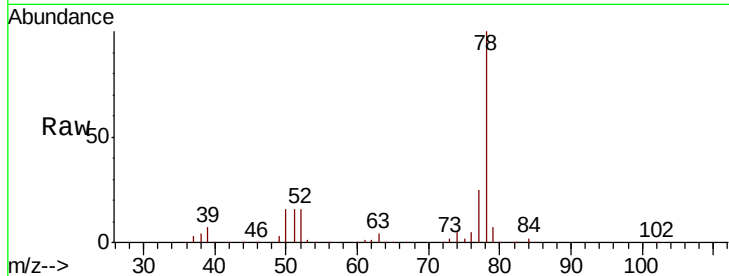
Delta R.T. 0.00 min

Lab File: VU037102.D

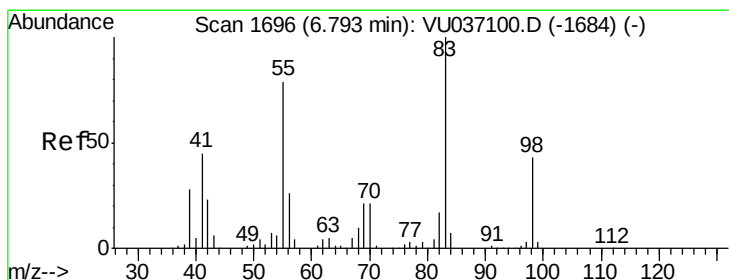
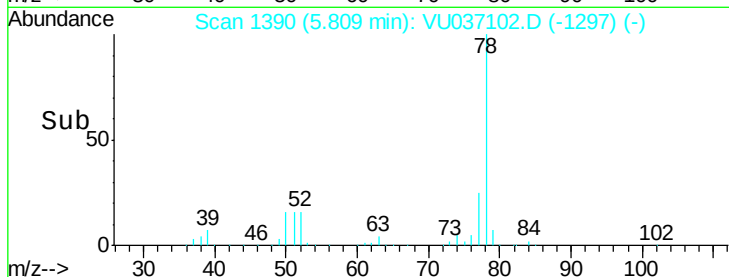
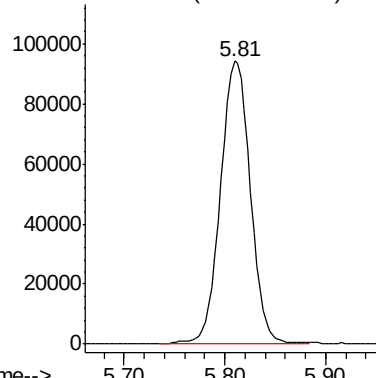
Acq: 06 Mar 2020 12:28

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 193461



Abundance Ion 78.00 (77.70 to 78.70): VU0



#35

Methylcyclohexane

Concen: 6.395 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.07 min

Lab File: VU037102.D

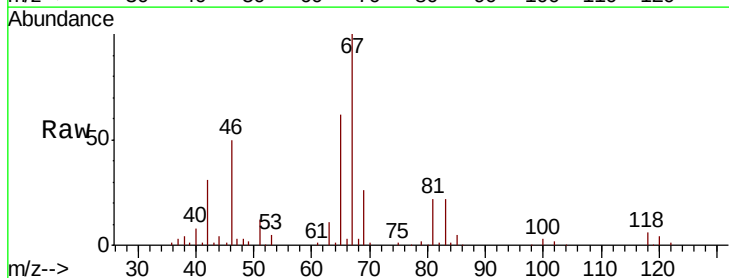
Acq: 06 Mar 2020 12:28

Tgt Ion: 83 Resp: 22083

Ion	Ratio	Lower	Upper
83	100		

55	0.0	62.6	93.8#
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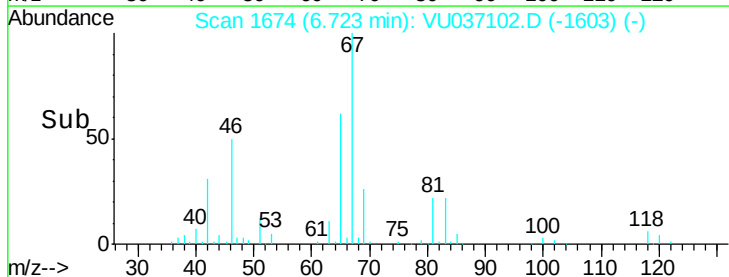
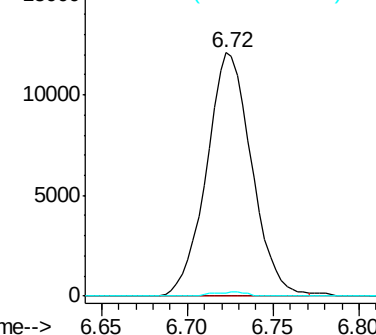
98	0.8	35.1	52.7#
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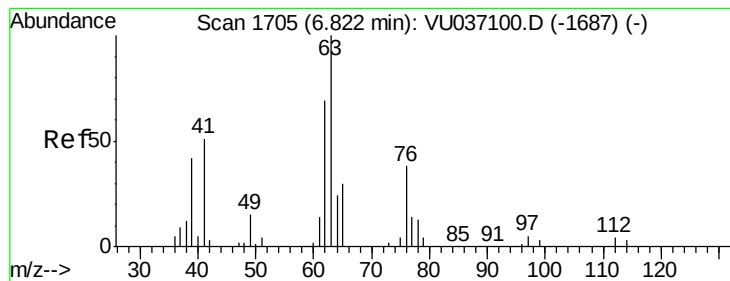


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 5.103 ug/L

RT: 6.73 min Scan# 1675

Delta R.T. -0.10 min

Lab File: VU037102.D

Acq: 06 Mar 2020 12:28

Instrument :

MSVOA_U

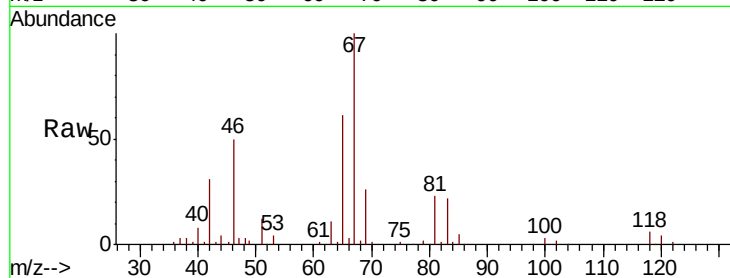
ClientSampled :

Tot Ion: 63 Resp: 11134

Ion Ratio Lower Upper

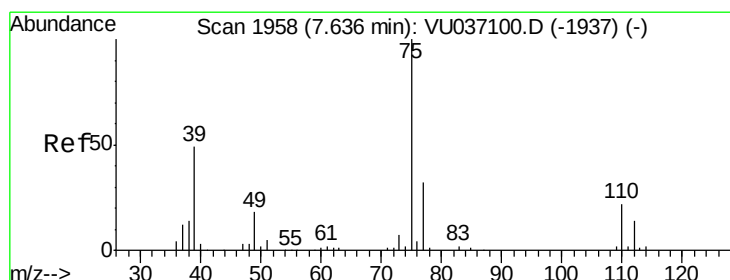
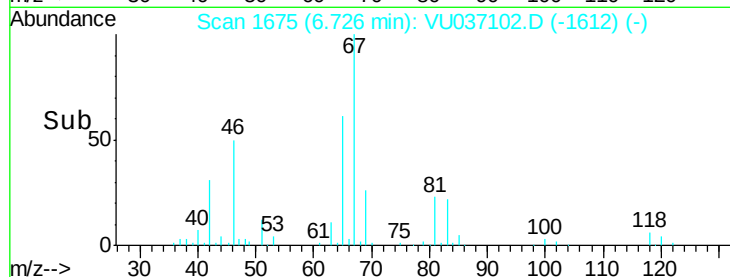
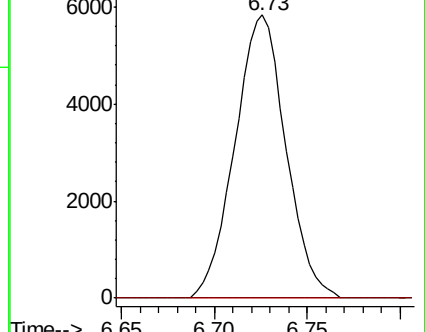
63 100

112 0.0 3.0 4.6#



Abundance Ion 63.00 (62.70 to 63.70): VU037102.D (-1675) (-)

Ion 112.00 (111.70 to 112.70): VU037102.D (-1675) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.796 ug/L

RT: 7.59 min Scan# 1945

Delta R.T. -0.04 min

Lab File: VU037102.D

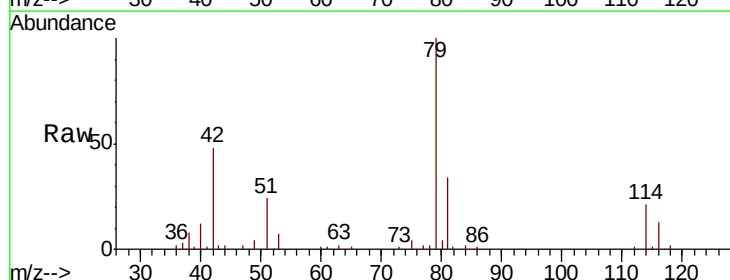
Acq: 06 Mar 2020 12:28

Tgt Ion: 75 Resp: 2676

Ion Ratio Lower Upper

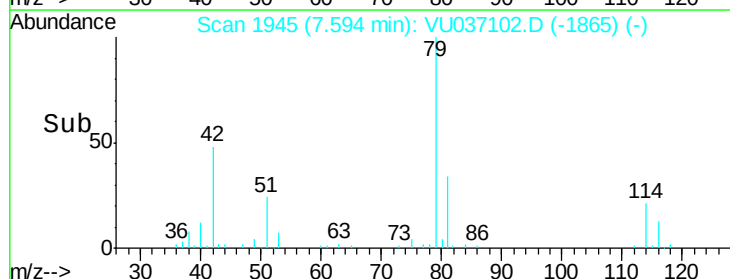
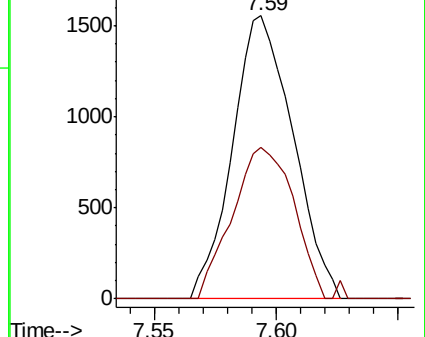
75 100

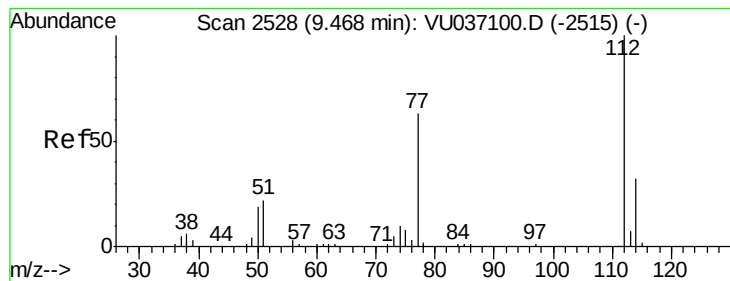
77 53.5 22.0 41.0#



Abundance Ion 75.00 (74.70 to 75.70): VU037102.D (-1865) (-)

Ion 77.00 (76.70 to 77.70): VU037102.D (-1865) (-)





#51

Chlorobenzene

Concen: 50.652 ug/L

RT: 9.47 min Scan# 2528

Delta R.T. 0.00 min

Lab File: VU037102.D

Acq: 06 Mar 2020 12:28

Instrument :

MSVOA_U

ClientSampleId :

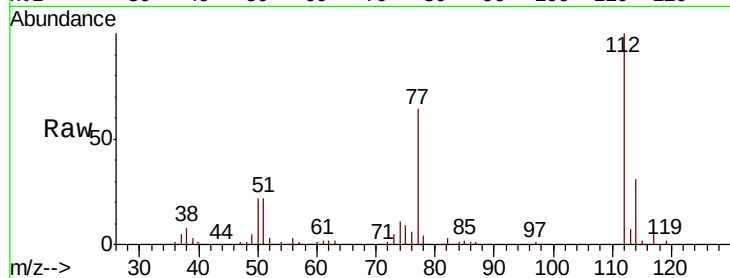
Tot Ion:112 Resp: 259088

Ion Ratio Lower Upper

112 100

114 31.1 22.3 41.5

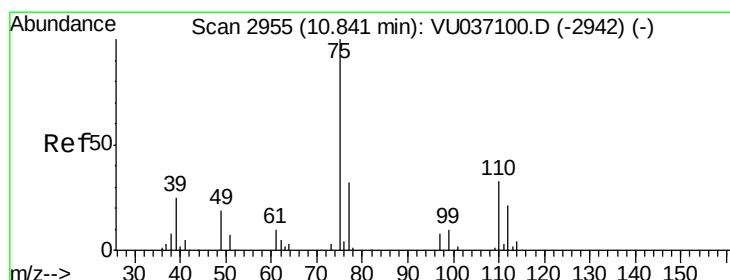
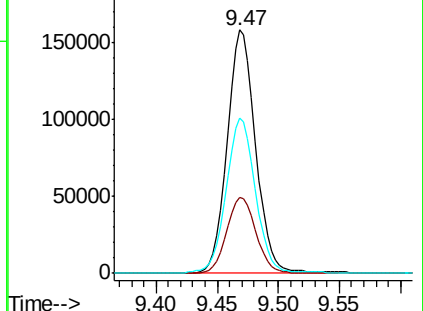
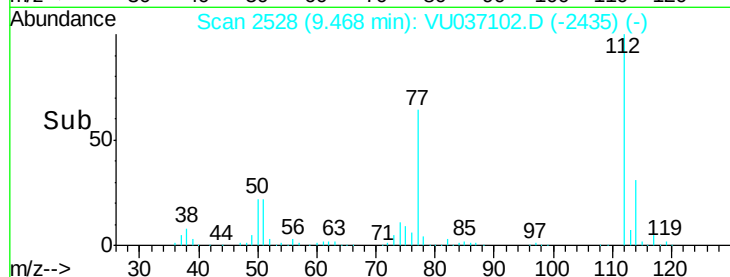
77 63.5 50.1 75.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#59

1,2,3-Trichloropropane

Concen: 3.096 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.92 min

Lab File: VU037102.D

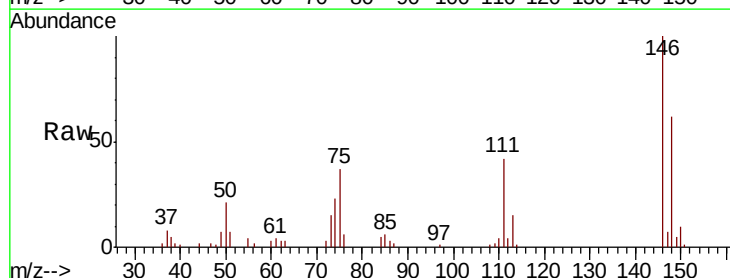
Acq: 06 Mar 2020 12:28

Tgt Ion: 75 Resp: 8690

Ion Ratio Lower Upper

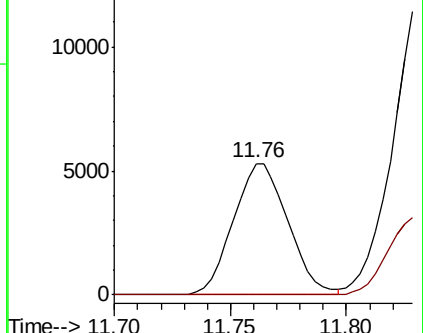
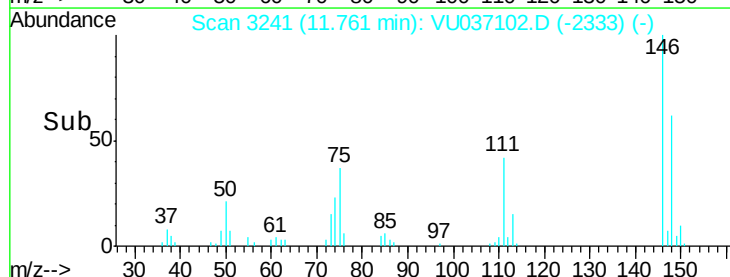
75 100

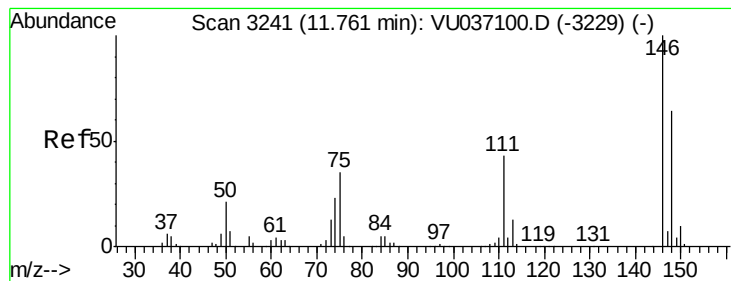
77 0.0 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 77.00 (76.70 to 77.70): V





#62

1,3-Dichlorobenzene

Concen: 7.666 ug/L

RT: 11.76 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VU037102.D

Acq: 06 Mar 2020 12:28

Instrument :

MSVOA_U

ClientSampleId :

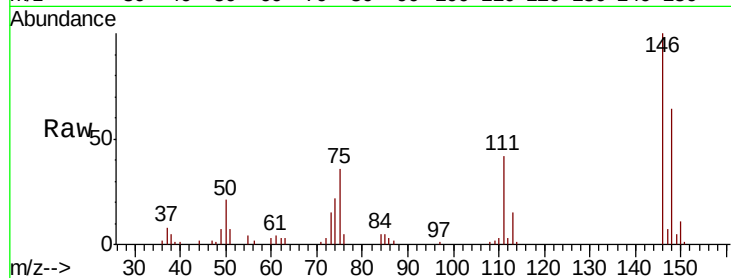
Tot Ion:146 Resp: 24139

Ion Ratio Lower Upper

146 100

111 42.4 30.7 56.9

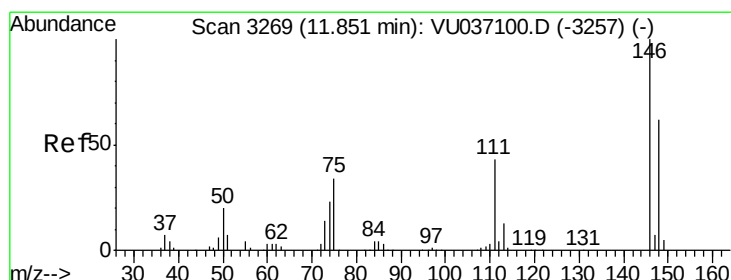
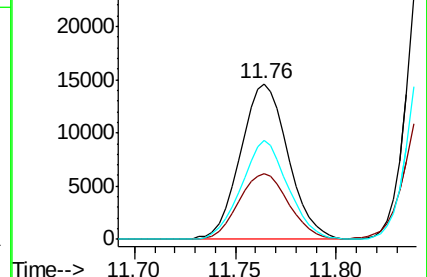
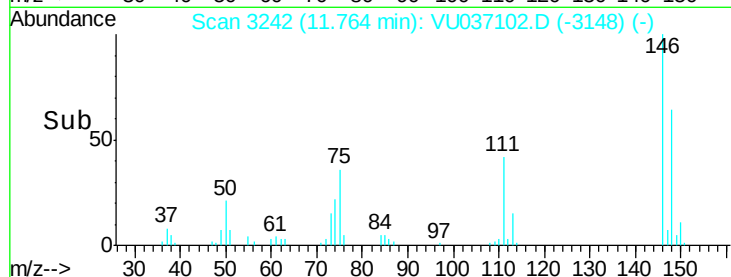
148 63.7 44.2 82.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 39.464 ug/L

RT: 11.85 min Scan# 3270

Delta R.T. 0.00 min

Lab File: VU037102.D

Acq: 06 Mar 2020 12:28

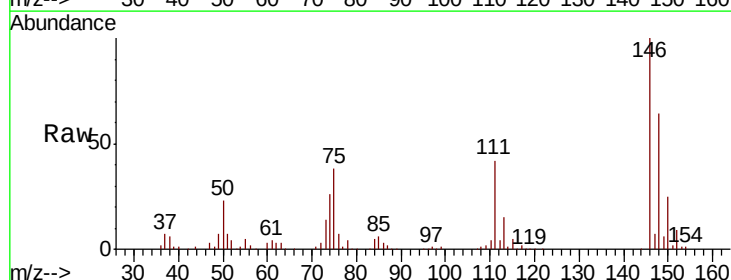
Tgt Ion:146 Resp: 122778

Ion Ratio Lower Upper

146 100

111 41.8 29.8 55.4

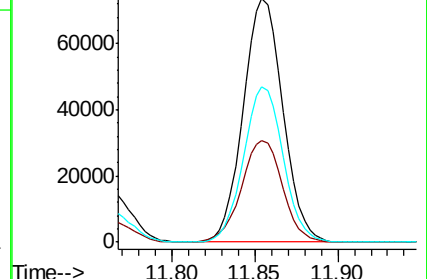
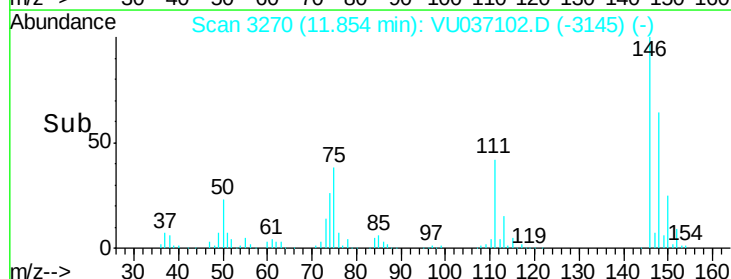
148 63.6 45.1 83.9

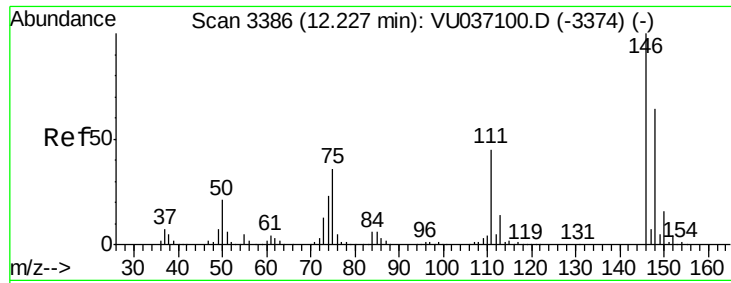


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 47.155 ug/L

RT: 12.23 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VU037102.D

Acq: 06 Mar 2020 12:28

Instrument :

MSVOA_U

ClientSampled :

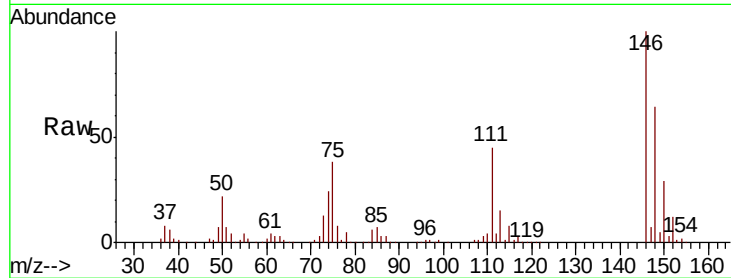
Tot Ion:146 Resp: 148263

Ion Ratio Lower Upper

146 100

111 45.2 35.4 53.0

148 63.6 50.5 75.7

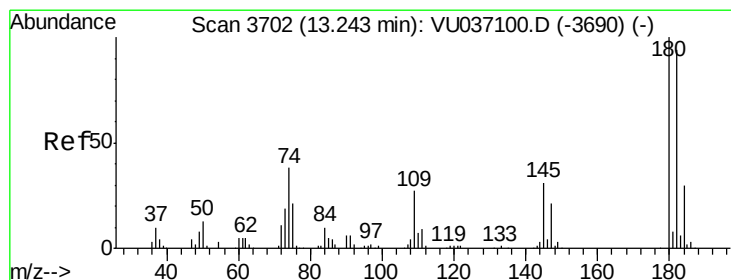
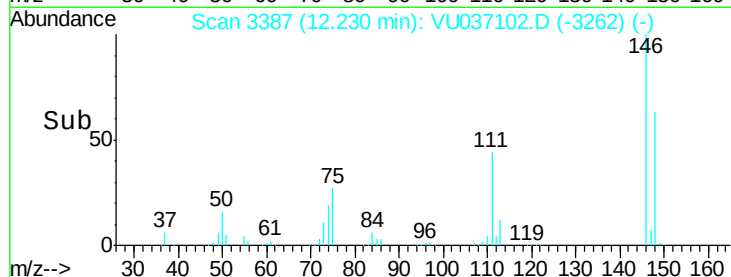
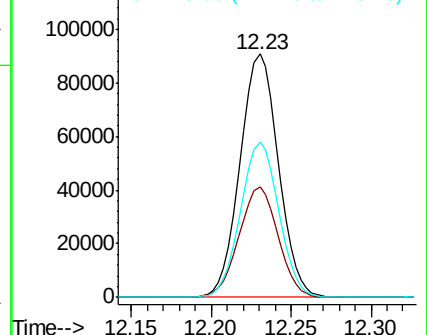


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 1.379 ug/L

RT: 13.88 min Scan# 3899

Delta R.T. 0.63 min

Lab File: VU037102.D

Acq: 06 Mar 2020 12:28

Tgt Ion:180 Resp: 2757

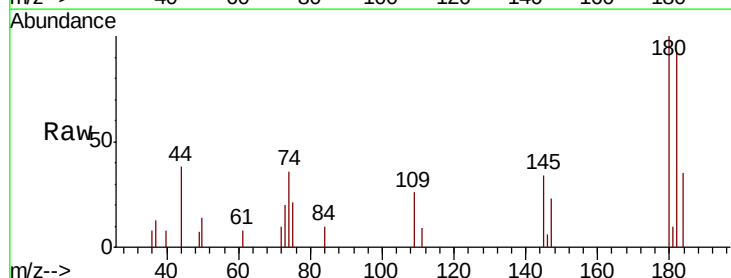
Ion Ratio Lower Upper

180 100

182 87.1 76.9 115.3

184 28.3 24.2 36.2

145 28.1 25.3 37.9



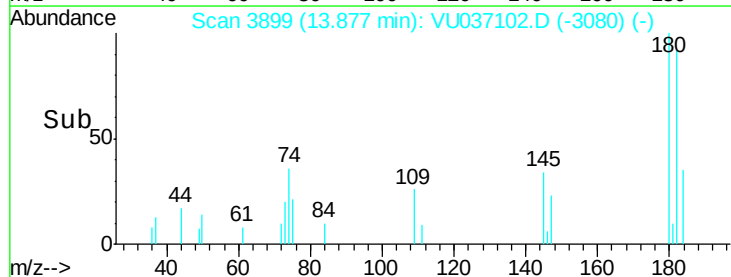
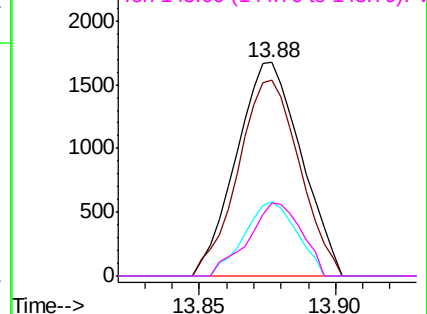
Abundance

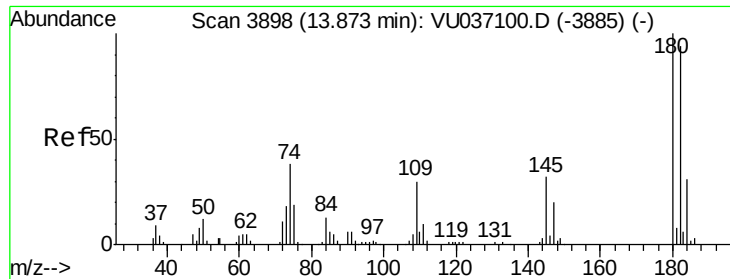
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#68

1,2,4-trichlorobenzene

Concen: 1.841 ug/L

RT: 13.88 min Scan# 3899

Delta R.T. 0.00 min

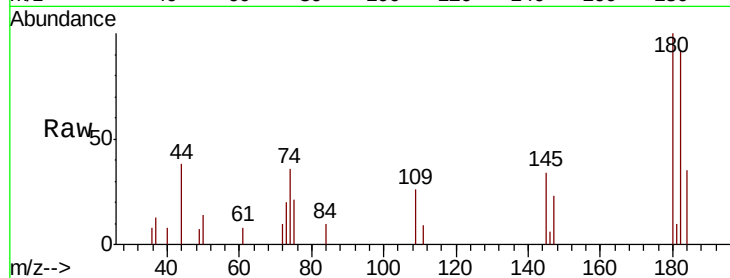
Lab File: VU037102.D

Acq: 06 Mar 2020 12:28

Instrument :

MSVOA_U

ClientSampleId :



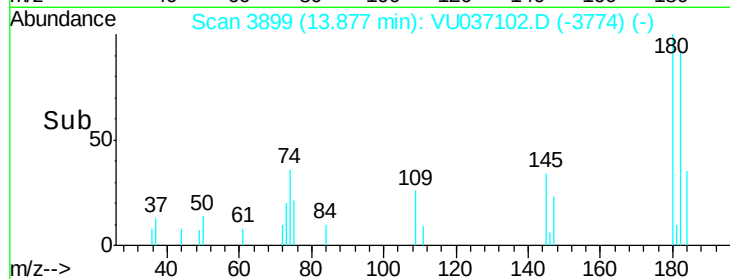
Tot Ion:180 Resp: 2757

Ion Ratio Lower Upper

180 100

182 87.1 75.3 112.9

145 28.1 26.2 39.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

