

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061320\
 Data File : VU038856.D
 Acq On : 12 Jun 2020 17:04
 Operator : SY/MD
 Sample : L2990-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 13 00:59:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR061220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jun 13 00:56:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	306324	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	301266	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	158544	5.00	ug/L	0.00

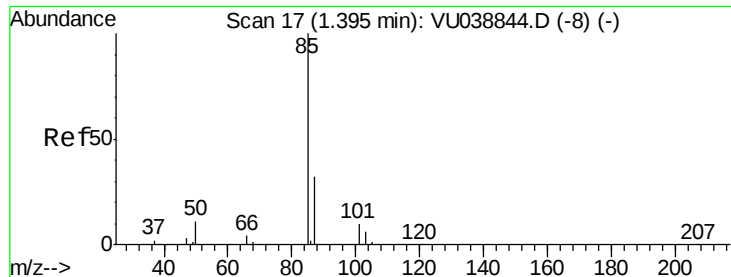
System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	90893	5.44	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.80%
7) Chloroethane-d5	1.93	69	73508	5.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	109.60%
11) 1,1-Dichloroethene-d2	2.59	63	140477	3.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.00%
20) 2-Butanone-d5	4.67	46	290869	55.51	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.02%
24) Chloroform-d	5.10	84	175727	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.74	65	104964	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
32) Benzene-d6	5.76	84	363191	5.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.20%
36) 1,2-Dichloropropane-d6	6.72	67	111006	5.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.40%
41) Toluene-d8	7.92	98	304784	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	8.20	79	45142	4.82	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.40%
46) 2-Hexanone-d5	8.65	63	248461	59.79	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	119.58%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	91084	4.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.80%
64) 1,2-Dichlorobenzene-d4	12.20	152	129510	5.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.50	85	16519	0.554 ug/L	99
8) Chloroethane	1.95	64	7145	0.442 ug/L	94
13) Acetone	2.68	43	5591	1.315 ug/L	77
19) 1,1-Dichloroethane	3.91	63	4581	0.110 ug/L	97
22) cis-1,2-Dichloroethene	4.71	96	6753	0.281 ug/L	99
30) Cyclohexane	5.42	56	12744	0.354 ug/L	99
33) Benzene	5.81	78	184910	2.031 ug/L	100
34) Trichloroethene	6.57	95	3449	0.145 ug/L	87
35) Methylcyclohexane	6.76	83	5711	0.155 ug/L #	9
37) 1,2-Dichloropropane	6.82	63	4625	0.202 ug/L #	96
39) cis-1,3-Dichloropropene	7.59	75	3057	0.090 ug/L #	76
45) 1,1,2-Trichloroethane	8.39	97	5767	0.330 ug/L #	19
56) Isopropylbenzene	10.50	105	14892	0.145 ug/L	99
59) 1,2,3-Trichloropropane	11.82	75	20318	1.194 ug/L #	59

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



#2

Dichlorodifluoromethane

Concen: 0.554 ug/L

RT: 1.50 min Scan# 51

Delta R.T. 0.11 min

Lab File: VU038856.D

Acq: 12 Jun 2020 17:04

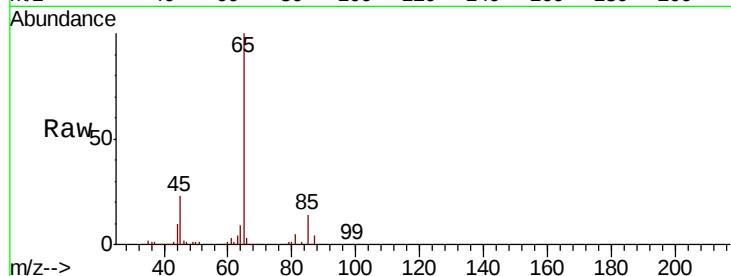
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 16519

Ion Ratio Lower Upper

85 100

87 32.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU038856.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU038856.D (-1) (-)

1.50

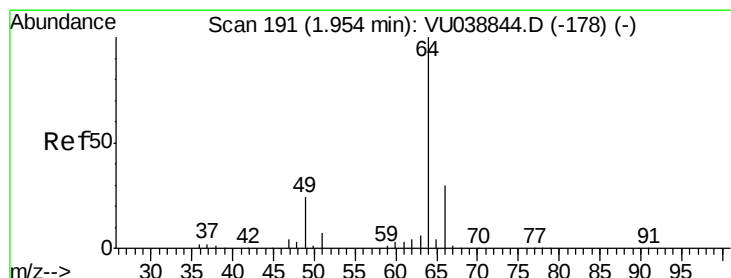
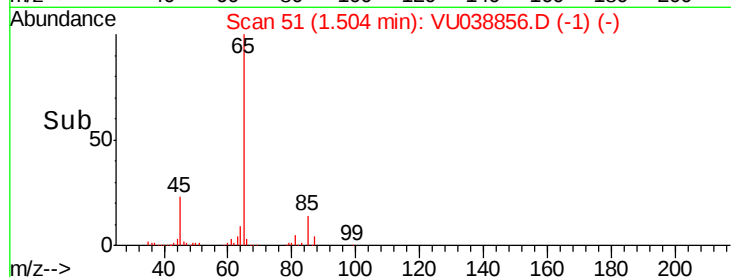
15000

10000

5000

0

Time--> 1.45 1.50 1.55



#8

Chloroethane

Concen: 0.442 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU038856.D

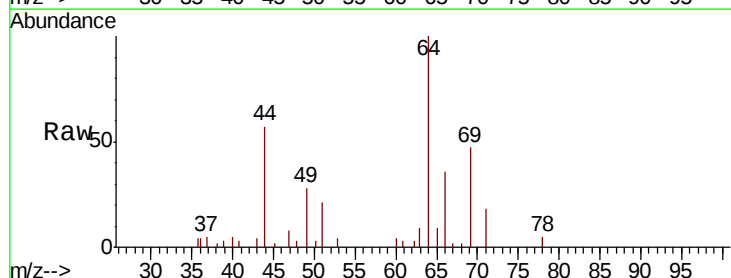
Acq: 12 Jun 2020 17:04

Tgt Ion: 64 Resp: 7145

Ion Ratio Lower Upper

64 100

66 36.1 22.9 42.5



Abundance Ion 64.10 (63.80 to 64.80): VU038856.D (-98) (-)

Ion 66.05 (65.75 to 66.75): VU038856.D (-98) (-)

1.95

6000

5000

4000

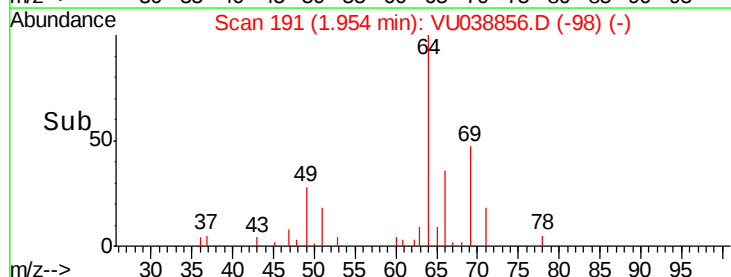
3000

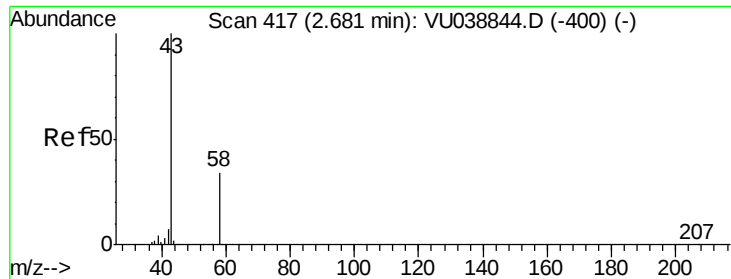
2000

1000

0

Time--> 1.90 1.95 2.00





#13

Acetone

Concen: 1.315 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU038856.D

Acq: 12 Jun 2020 17:04

Instrument :

MSVOA_U

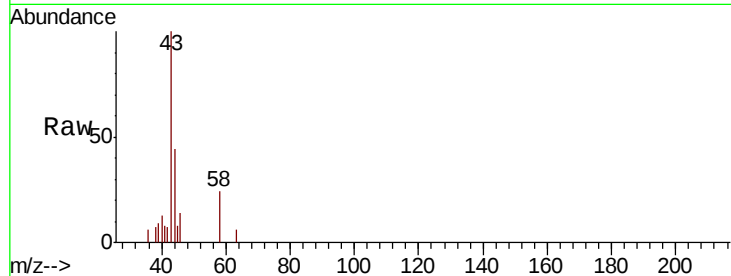
ClientSampleId :

Tot Ion: 43 Resp: 5591

Ion Ratio Lower Upper

43 100

58 20.0 0.0 66.0



Abundance Ion 43.05 (42.75 to 43.75): VU038844.D (-400) (-)

Ion 58.05 (57.75 to 58.75): VU038844.D (-400) (-)

2000

1500

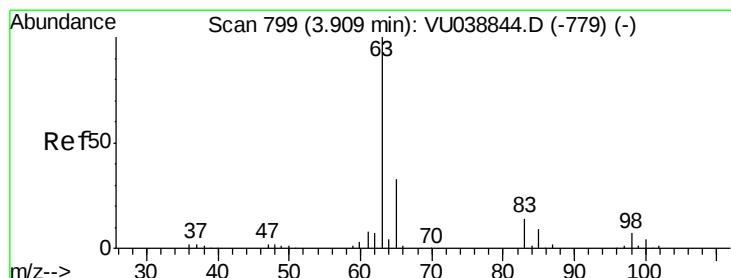
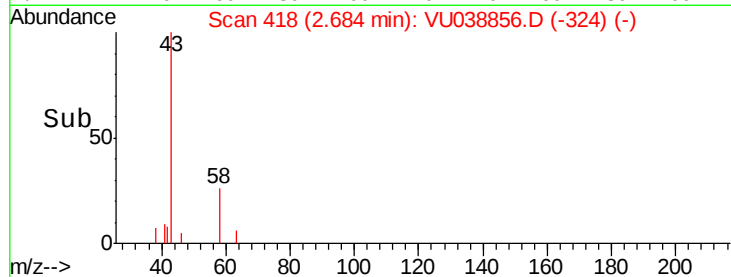
1000

500

0

2.60 2.65 2.70 2.75

Time-->



#19

1,1-Dichloroethane

Concen: 0.110 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU038856.D

Acq: 12 Jun 2020 17:04

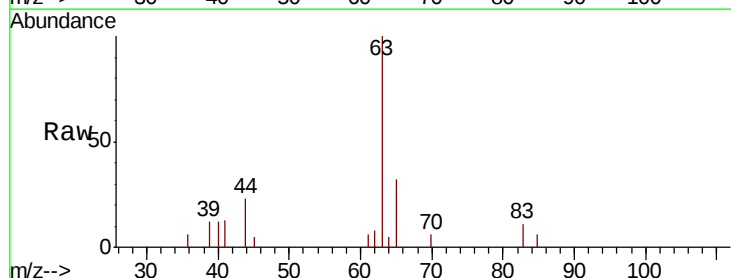
Tgt Ion: 63 Resp: 4581

Ion Ratio Lower Upper

63 100

65 32.4 22.3 41.5

83 11.1 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU038844.D (-779) (-)

Ion 65.10 (64.80 to 65.80): VU038844.D (-779) (-)

Ion 83.05 (82.75 to 83.75): VU038844.D (-779) (-)

2500

2000

1500

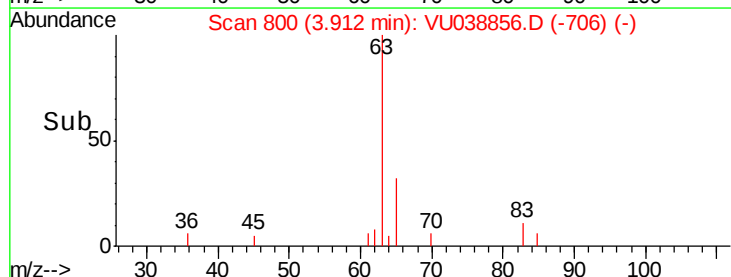
1000

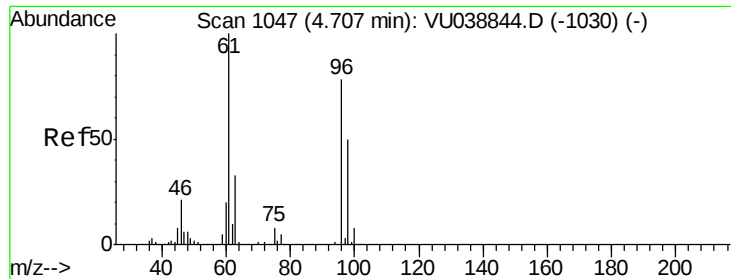
500

0

3.85 3.90 3.95

Time-->





#22

cis-1,2-Dichloroethene

Concen: 0.281 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU038856.D

Acq: 12 Jun 2020 17:04

Instrument :

MSVOA_U

ClientSampled :

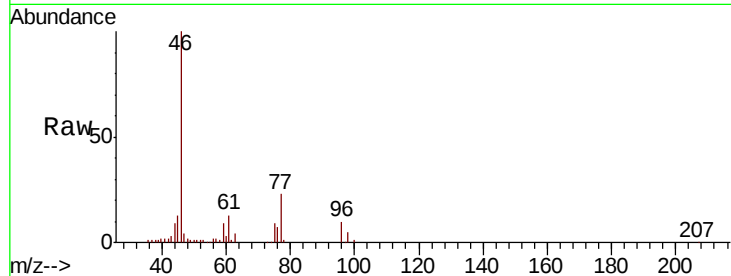
Tot Ion: 96 Resp: 6753

Ion Ratio Lower Upper

96 100

61 127.4 89.7 166.7

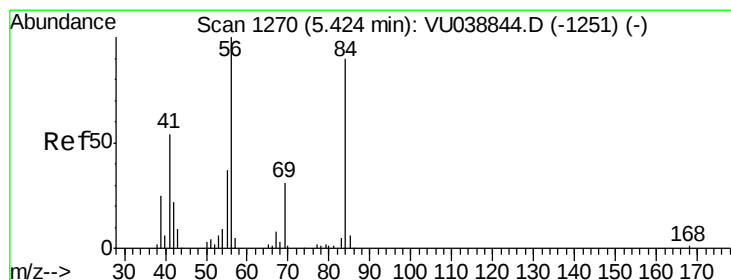
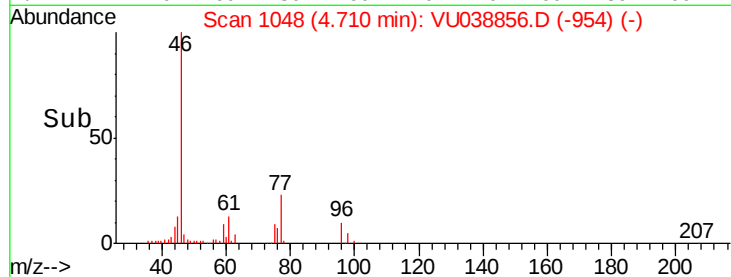
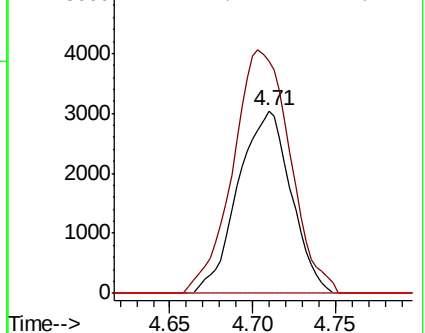
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038856.D (-954) (-)

Ion 61.05 (60.75 to 61.75): VU038856.D (-954) (-)

Ion 68.15 (67.85 to 68.85): VU038856.D (-954) (-)



#30

Cyclohexane

Concen: 0.354 ug/L

RT: 5.42 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VU038856.D

Acq: 12 Jun 2020 17:04

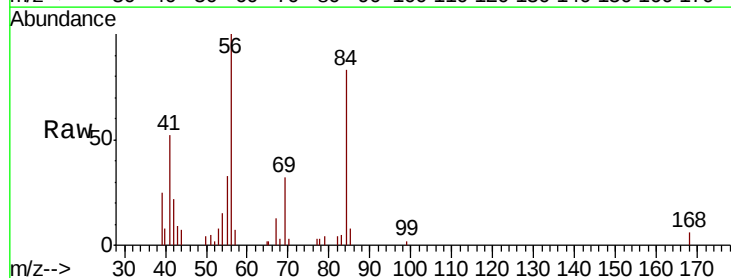
Tgt Ion: 56 Resp: 12744

Ion Ratio Lower Upper

56 100

69 33.2 25.1 37.7

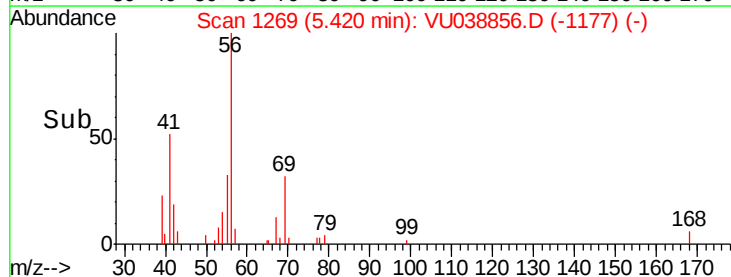
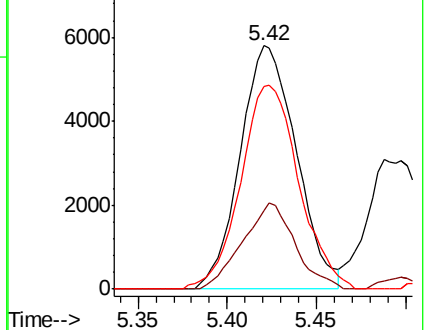
84 86.8 69.5 104.3

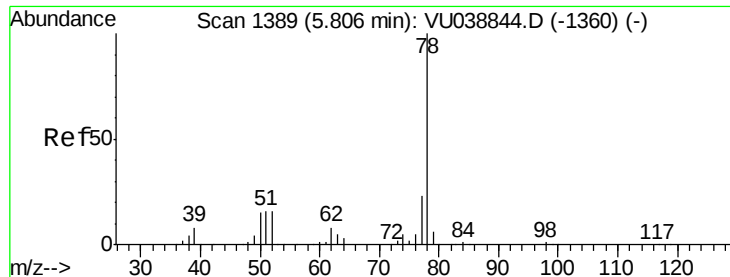


Abundance Ion 56.10 (55.80 to 56.80): VU038856.D (-1177) (-)

Ion 69.15 (68.85 to 69.85): VU038856.D (-1177) (-)

Ion 84.15 (83.85 to 84.85): VU038856.D (-1177) (-)





#33

Benzene

Concen: 2.031 ug/L

RT: 5.81 min Scan# 1389

Delta R.T. -0.00 min

Lab File: VU038856.D

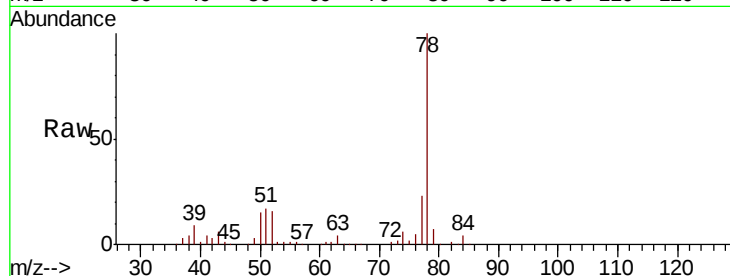
Acq: 12 Jun 2020 17:04

Instrument :

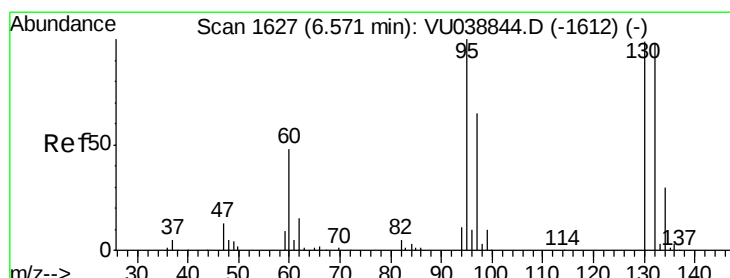
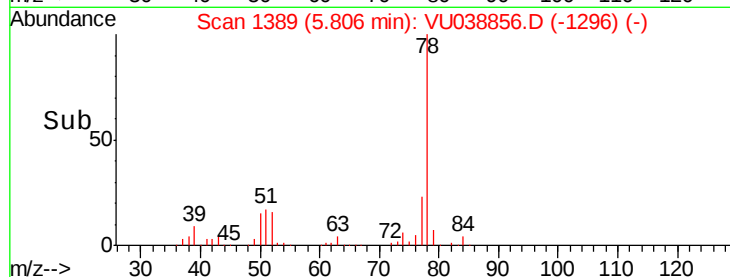
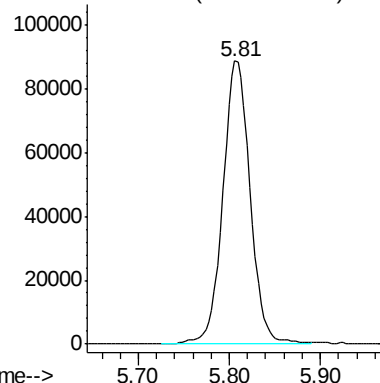
MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 184910



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.145 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU038856.D

Acq: 12 Jun 2020 17:04

Tgt Ion: 95 Resp: 3449

Ion	Ratio	Lower	Upper
95	100		
97	75.8	46.1	85.5
132	117.4	67.5	125.3
130	90.1	66.7	123.9

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

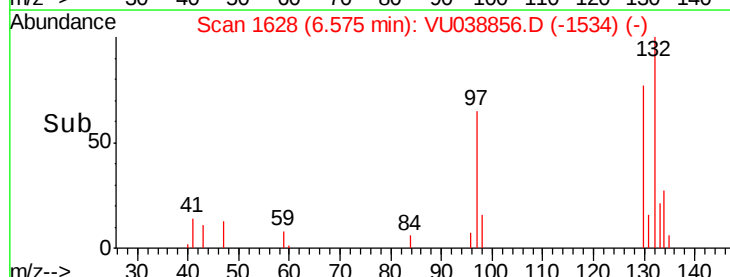
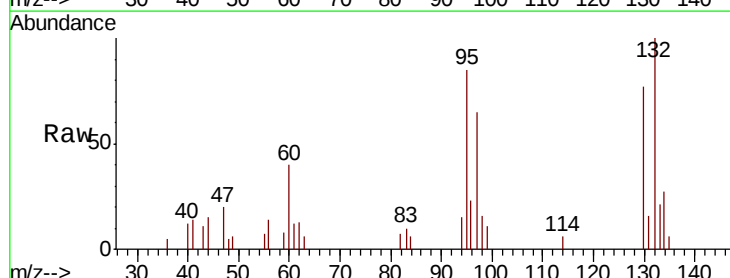
Ion 129.95 (129.65 to 130.65): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

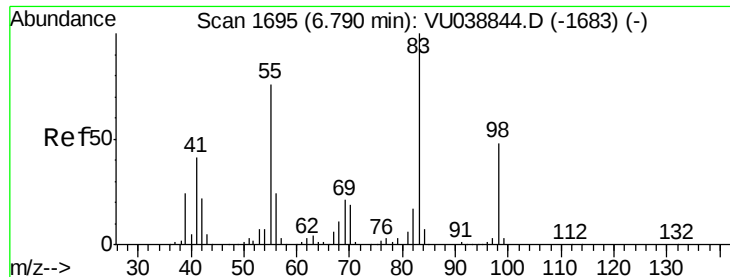
Ion 129.95 (129.65 to 130.65): V

Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

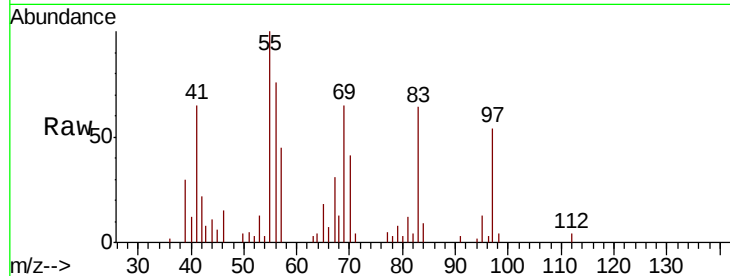
Ion 129.95 (129.65 to 130.65): V



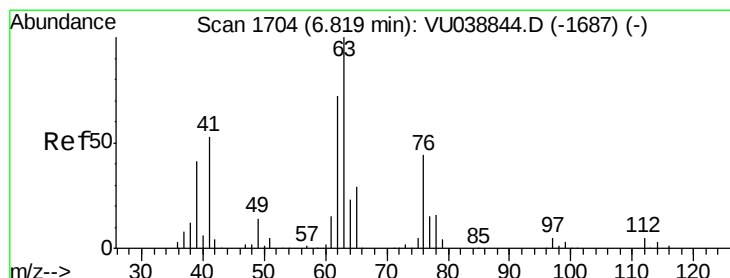
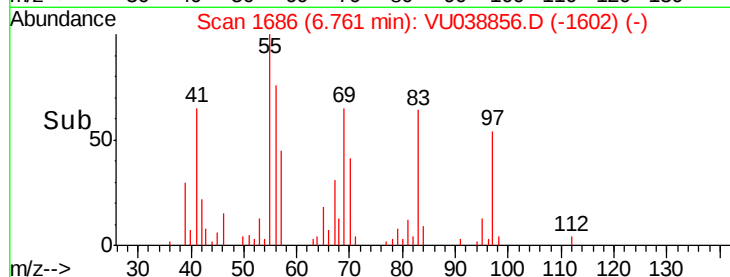
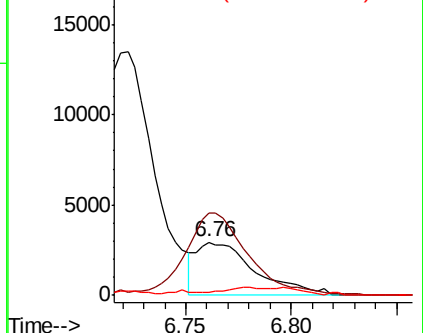
#35
Methylcyclohexane
Concen: 0.155 ug/L
RT: 6.76 min Scan# 1686
Delta R.T. -0.03 min
Lab File: VU038856.D
Acq: 12 Jun 2020 17:04

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 83 Resp: 5711
Ion Ratio Lower Upper
83 100
55 171.1 64.2 96.2#
98 1.1 40.5 60.7#

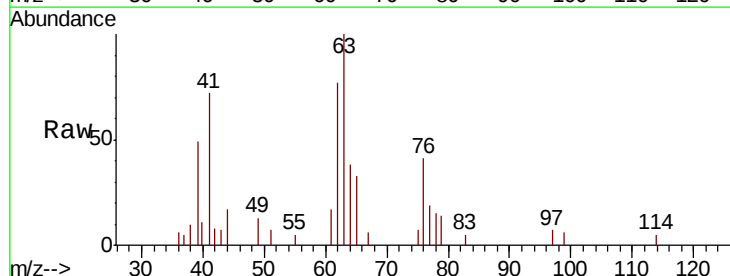


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

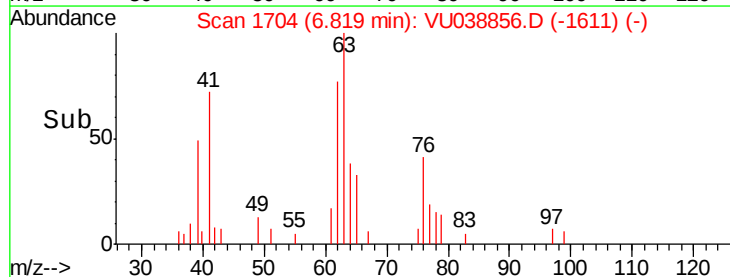
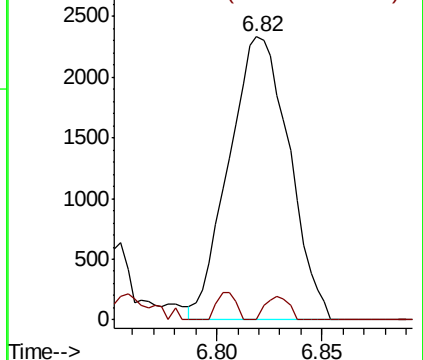


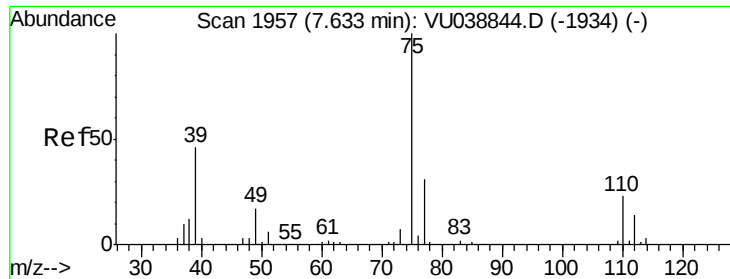
#37
1,2-Dichloropropane
Concen: 0.202 ug/L
RT: 6.82 min Scan# 1704
Delta R.T. -0.00 min
Lab File: VU038856.D
Acq: 12 Jun 2020 17:04

Tgt Ion: 63 Resp: 4625
Ion Ratio Lower Upper
63 100
112 3.3 3.8 5.6#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

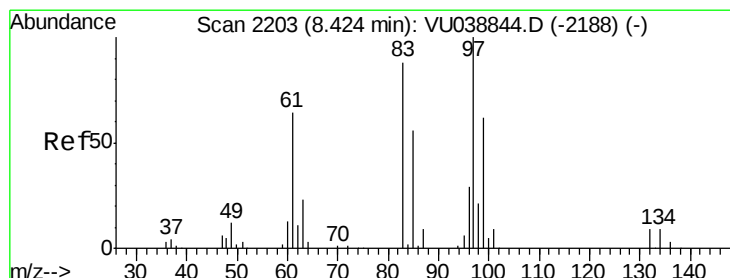
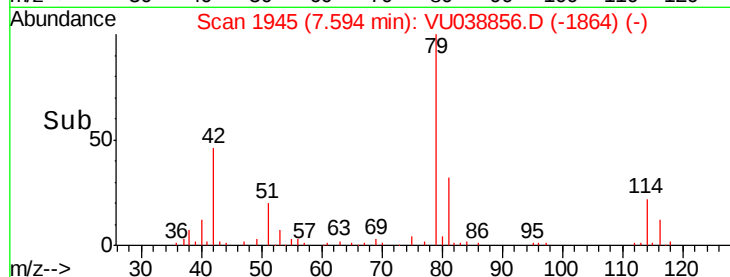
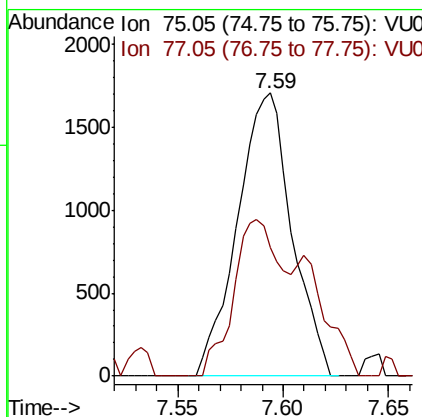
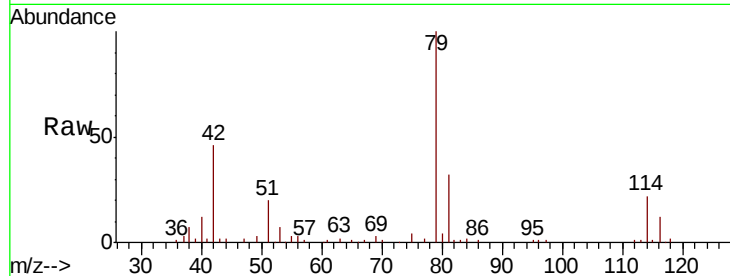




#39
 cis-1,3-Dichloropropene
 Concen: 0.090 ug/L
 RT: 7.59 min Scan# 1945
 Delta R.T. -0.04 min
 Lab File: VU038856.D
 Acq: 12 Jun 2020 17:04

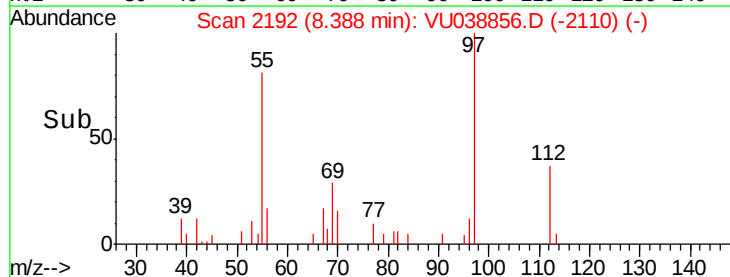
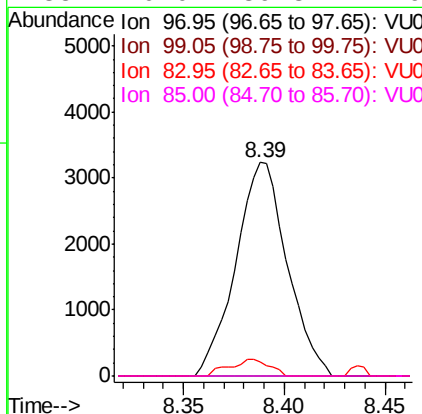
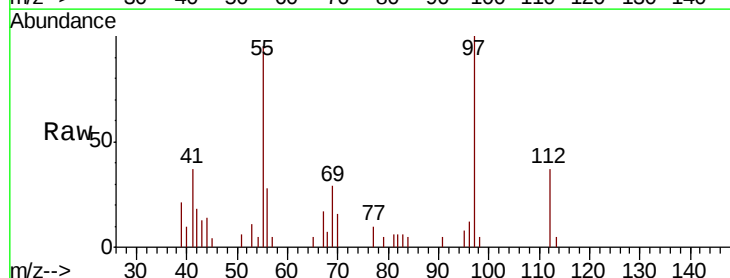
Instrument :
 MSVOA_U
 ClientSampleId :

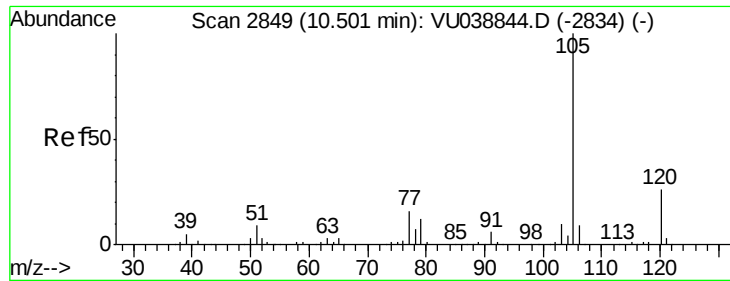
Tot Ion: 75 Resp: 3057
 Ion Ratio Lower Upper
 75 100
 77 45.2 22.4 41.6#



#45
 1,1,2-Trichloroethane
 Concen: 0.330 ug/L
 RT: 8.39 min Scan# 2192
 Delta R.T. -0.04 min
 Lab File: VU038856.D
 Acq: 12 Jun 2020 17:04

Tgt Ion: 97 Resp: 5767
 Ion Ratio Lower Upper
 97 100
 99 0.0 42.9 79.7#
 83 6.5 58.0 107.8#
 85 0.0 39.3 72.9#





#56

Isopropylbenzene

Concen: 0.145 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU038856.D

Acq: 12 Jun 2020 17:04

Instrument :

MSVOA_U

ClientSampleId :

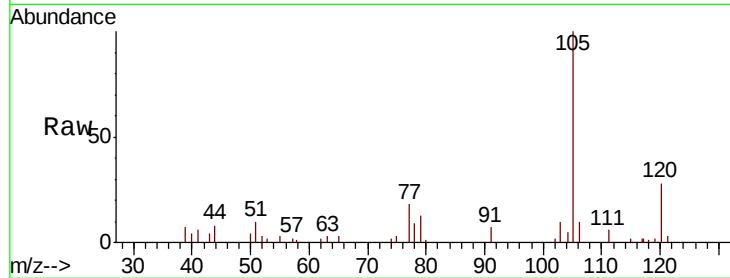
Tot Ion:105 Resp: 14892

Ion Ratio Lower Upper

105 100

120 25.7 20.6 30.8

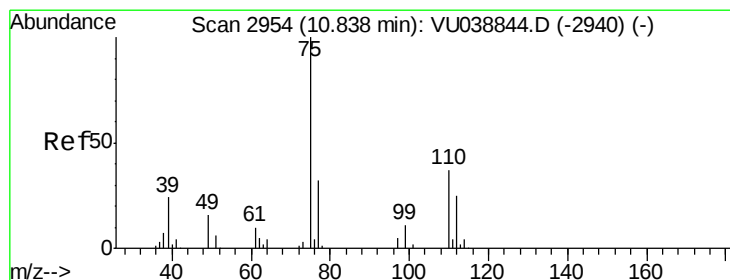
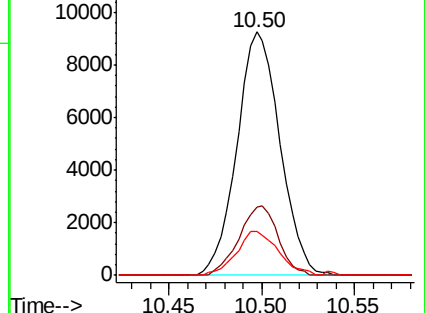
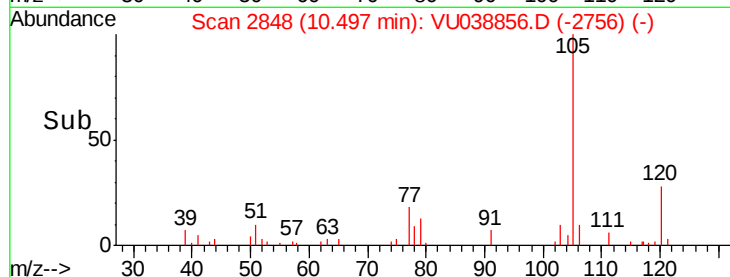
77 17.6 12.8 19.2



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): VU



#59

1,2,3-Trichloropropane

Concen: 1.194 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038856.D

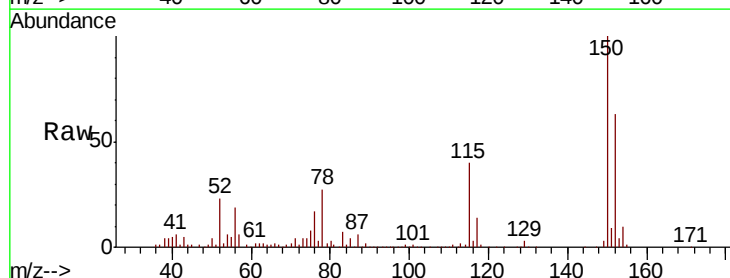
Acq: 12 Jun 2020 17:04

Tgt Ion: 75 Resp: 20318

Ion Ratio Lower Upper

75 100

77 55.4 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU

