

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU060920\
 Data File : VU038707.D
 Acq On : 09 Jun 2020 07:47
 Operator : SY/MD
 Sample : L2913-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 F9D83

Quant Time: Jun 09 08:18:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jun 09 07:55:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	687202	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	692733	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	369315	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	188922	49.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	98.42%
7) Chloroethane-d5	1.93	69	162384	54.52	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	109.04%
11) 1,1-Dichloroethene-d2	2.59	63	289517	34.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.20%
21) 2-Butanone-d5	4.67	46	399707	107.01	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.01%
24) Chloroform-d	5.10	84	380618	45.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.96%
26) 1,2-Dichloroethane-d4	5.75	65	116605	21.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	42.50%#
32) Benzene-d6	5.80	84	774852	46.43	ug/L	0.04
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.86%
36) 1,2-Dichloropropane-d6	6.73	67	271709	52.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.66%
41) Toluene-d8	7.93	98	815452	54.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.16%
43) trans-1,3-Dichloropropene-	8.20	79	139733	53.97	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.94%
47) 2-Hexanone-d5	8.65	63	311599	113.83	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.83%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	432972	56.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	112.88%
64) 1,2-Dichlorobenzene-d4	12.20	152	350945	54.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.46%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.67	50	209197	39.850	ug/L	82
13) Acetone	2.66	43	71599	23.787	ug/L	93
15) Methyl Acetate	2.99	43	115953	18.434	ug/L #	51
16) Methylene chloride	3.08	84	4508	0.873	ug/L #	65
22) 2-Butanone	4.75	43	127849	27.697	ug/L	100
27) 1,2-Dichloroethane	5.89	62	7383684	988.808	ug/L #	88
29) Cyclohexane	5.43	56	2002562	252.675	ug/L	99
35) Methylcyclohexane	6.79	83	186903	23.688	ug/L	99
37) 1,2-Dichloropropane	6.82	63	88349	16.481	ug/L	99
39) cis-1,3-Dichloropropene	7.59	75	13260	1.604	ug/L	85
40) 4-Methyl-2-pentanone	7.83	43	64720	7.723	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	9987	1.936	ug/L	84
48) 2-Hexanone	8.71	43	50406	7.276	ug/L #	95
53) m,p-Xylene	9.72	106	5722671	628.007	ug/L	99
54) o-xylene	10.12	106	6981109	789.167	ug/L	86
55) Styrene	10.12	104	616479	40.200	ug/L #	1
56) Isopropylbenzene	10.50	105	981551	42.514	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Jun 09 07:55:51 2020
Response via : Initial Calibration

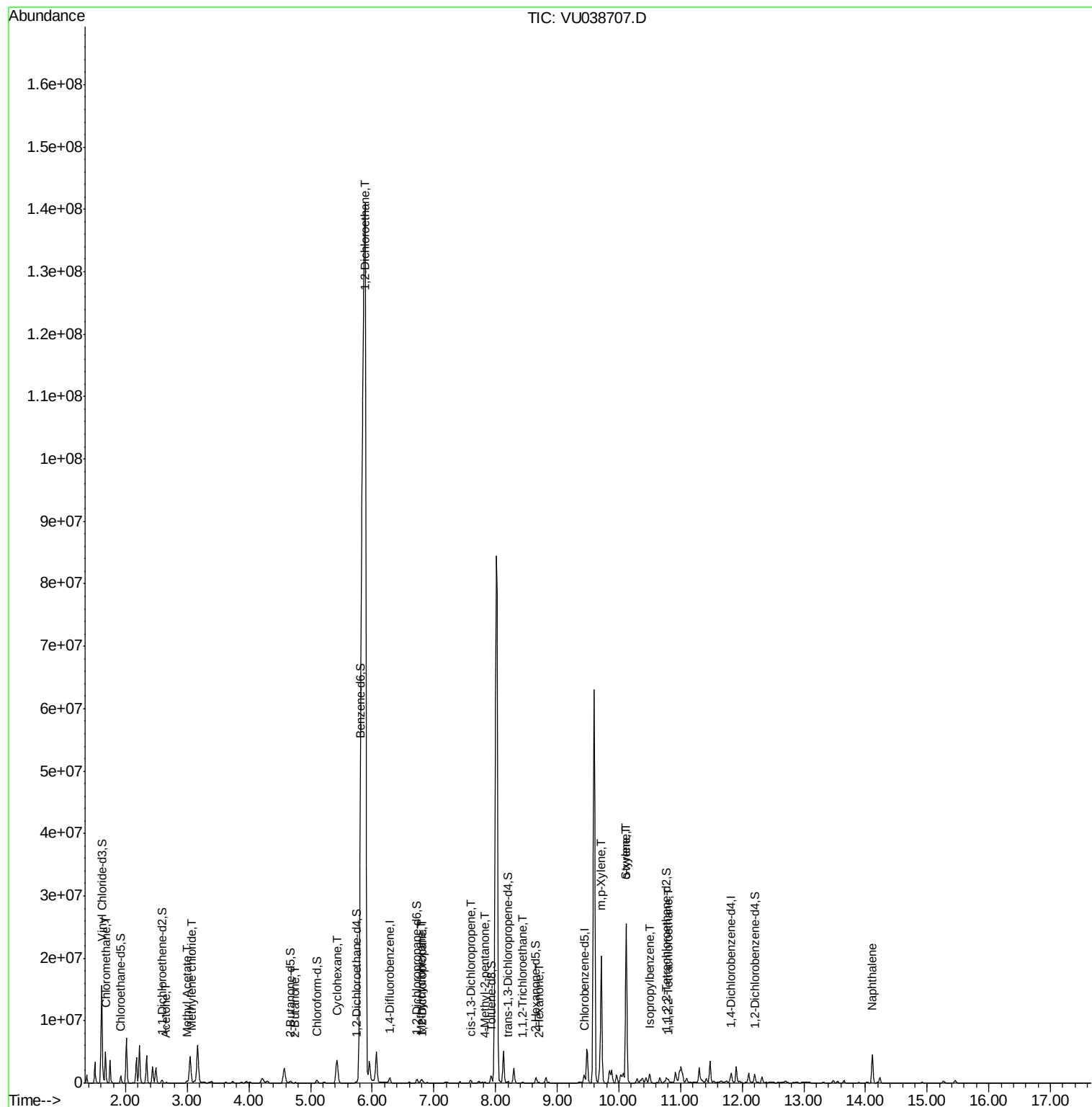
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	10.80	83	21331	2.429	ug/L #	84
69) Naphthalene	14.11	128	3548359	130.027	ug/L	100

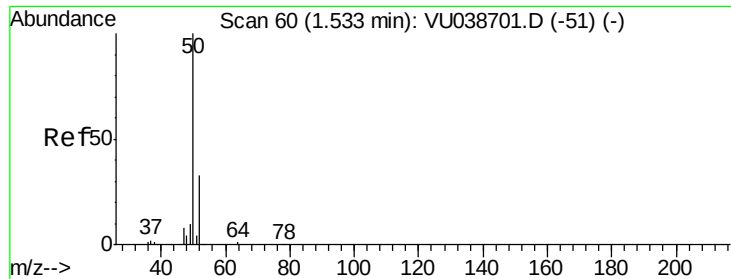
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 39.850 ug/L

RT: 1.67 min Scan# 104

Delta R.T. 0.14 min

Lab File: VU038707.D

Acq: 09 Jun 2020 07:47

Instrument :

MSVOA_U

ClientSampled :

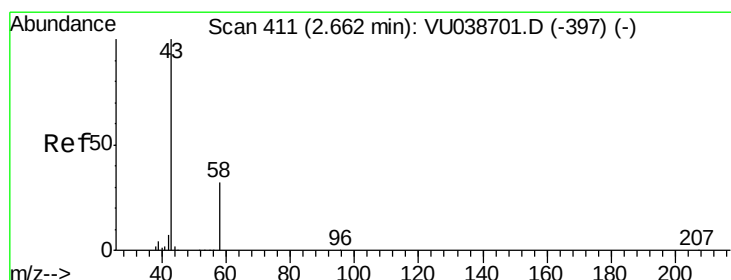
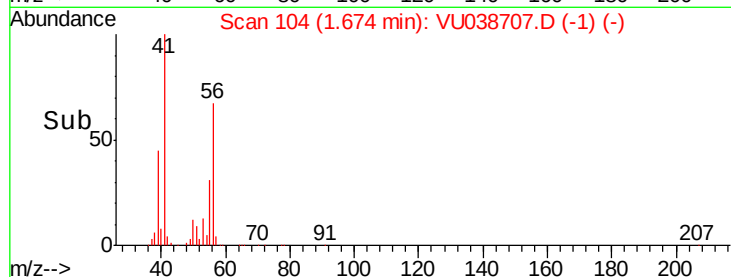
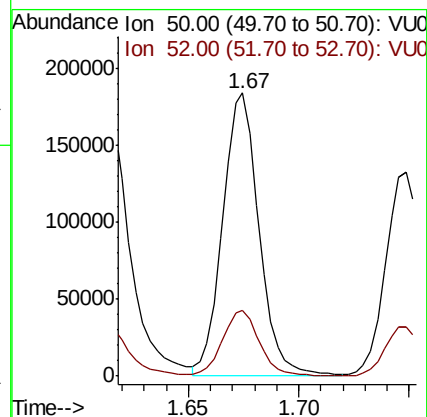
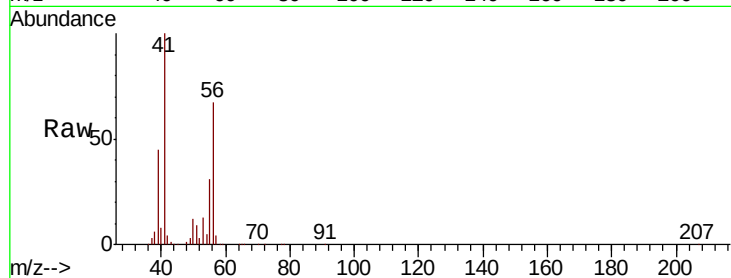
F9D83

Tot Ion: 50 Resp: 209197

Ion Ratio Lower Upper

50 100

52 23.3 23.2 43.2



#13

Acetone

Concen: 23.787 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU038707.D

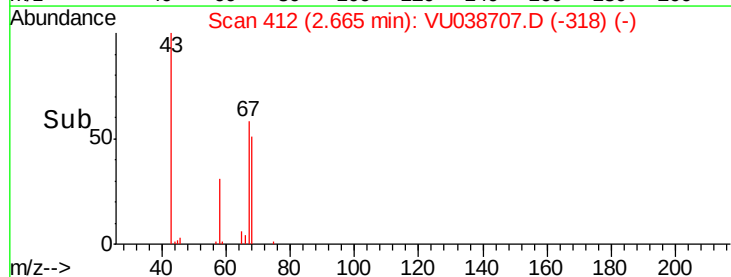
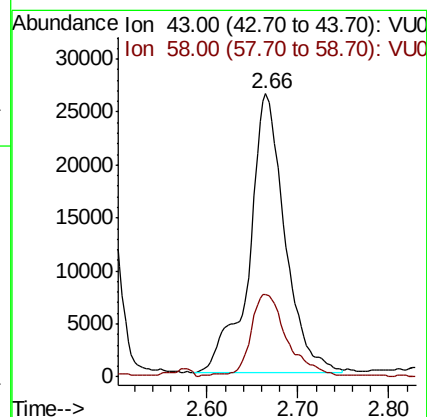
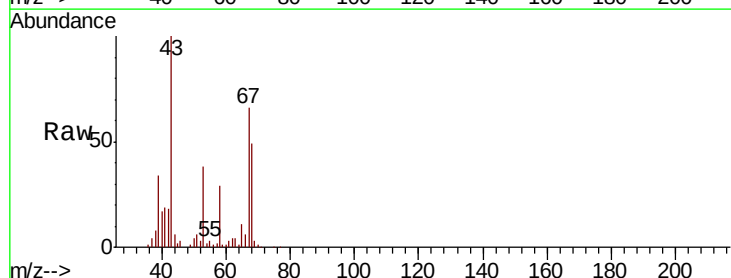
Acq: 09 Jun 2020 07:47

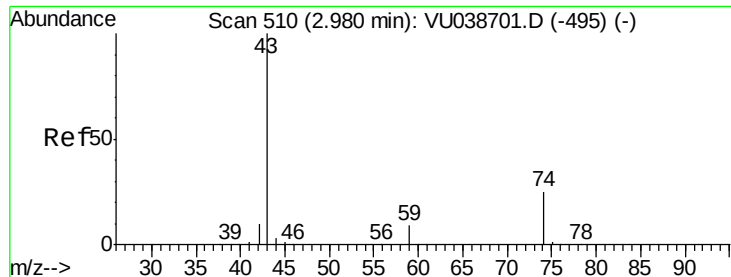
Tgt Ion: 43 Resp: 71599

Ion Ratio Lower Upper

43 100

58 30.1 0.0 67.6

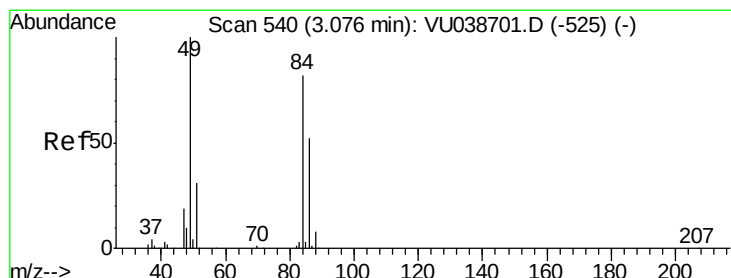
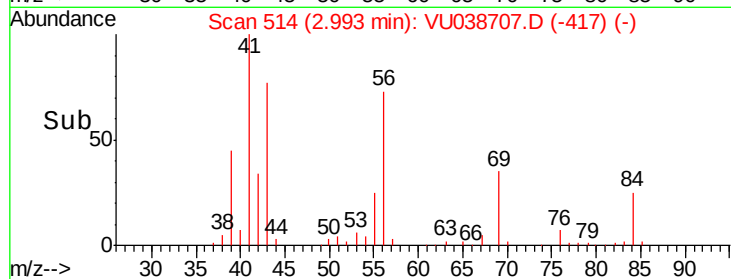
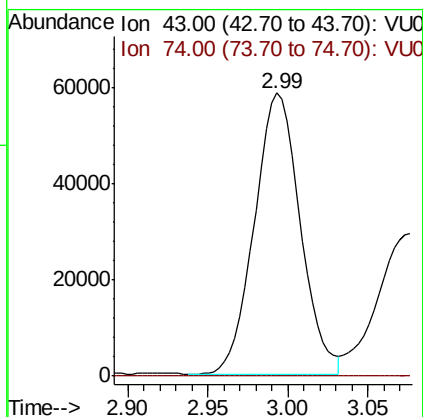
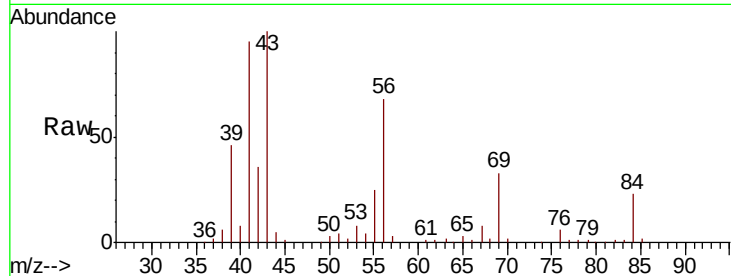




#15
Methyl Acetate
Concen: 18.434 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.01 min
Lab File: VU038707.D
Acq: 09 Jun 2020 07:47

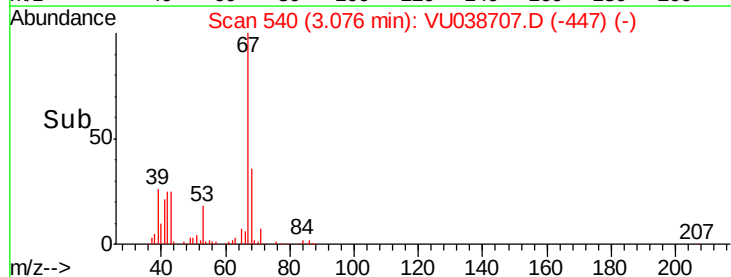
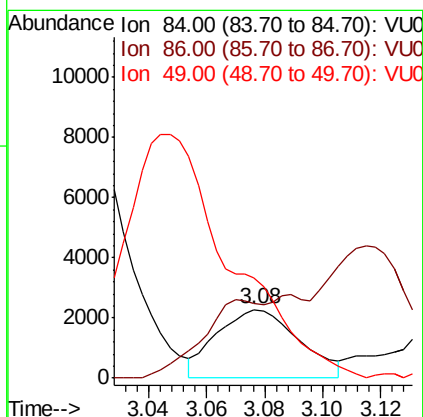
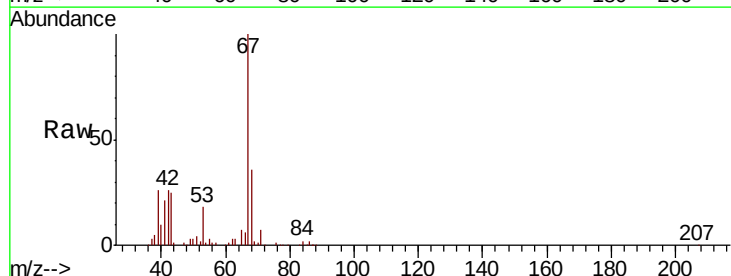
Instrument :
MSVOA_U
ClientSampleId :
F9D83

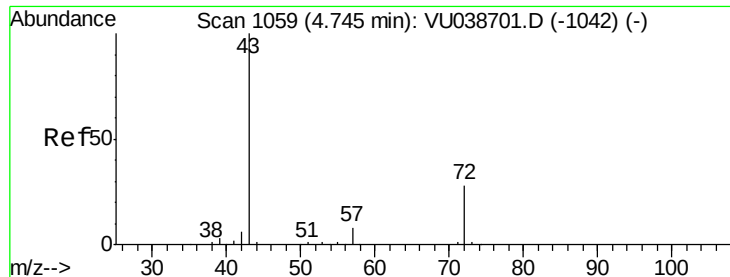
Tot Ion: 43 Resp: 115953
Ion Ratio Lower Upper
43 100
74 0.1 19.7 29.5#



#16
Methylene chloride
Concen: 0.873 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU038707.D
Acq: 09 Jun 2020 07:47

Tgt Ion: 84 Resp: 4508
Ion Ratio Lower Upper
84 100
86 108.5 44.7 83.1#
49 146.8 84.5 156.9





#22

2-Butanone

Concen: 27.697 ug/L

RT: 4.75 min Scan# 1061

Delta R.T. 0.01 min

Lab File: VU038707.D

Acq: 09 Jun 2020 07:47

Instrument :

MSVOA_U

ClientSampleId :

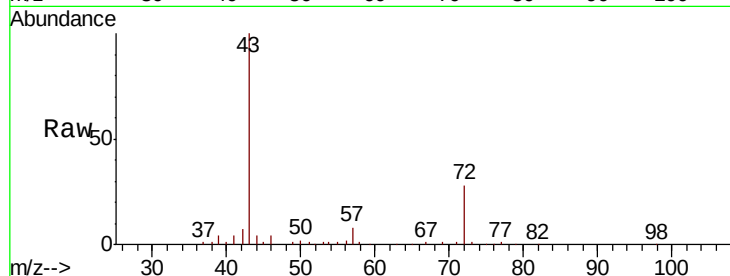
F9D83

Tot Ion: 43 Resp: 127849

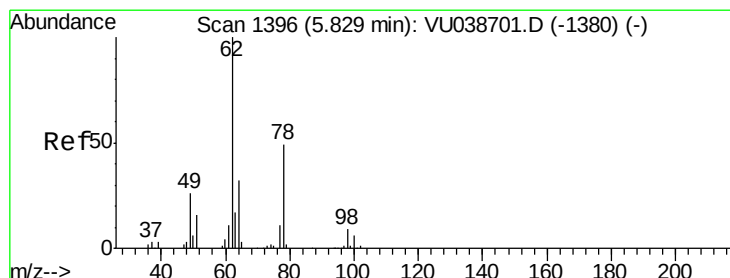
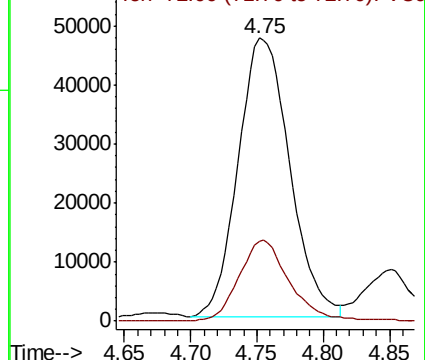
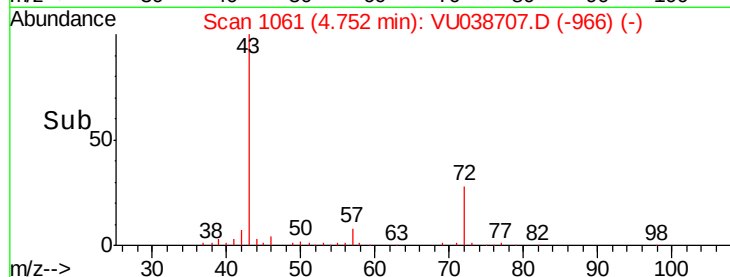
Ion Ratio Lower Upper

43 100

72 28.3 14.1 42.3



Abundance Ion 43.00 (42.70 to 43.70): VU038707.D (-966) (-)



#27

1,2-Dichloroethane

Concen: 988.808 ug/L

RT: 5.89 min Scan# 1416

Delta R.T. 0.06 min

Lab File: VU038707.D

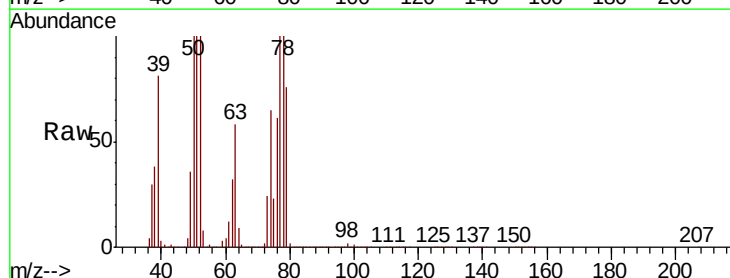
Acq: 09 Jun 2020 07:47

Tgt Ion: 62 Resp: 7383684

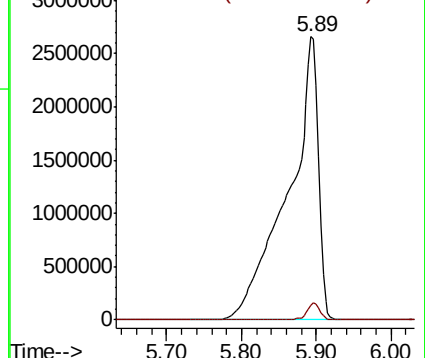
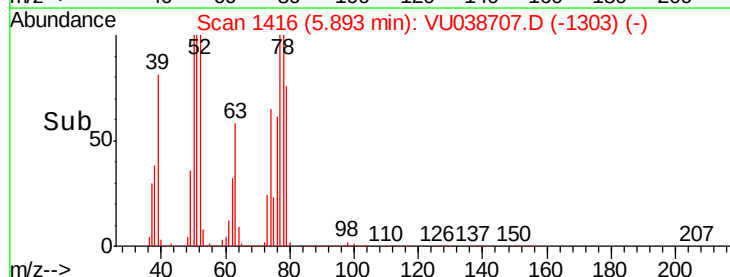
Ion Ratio Lower Upper

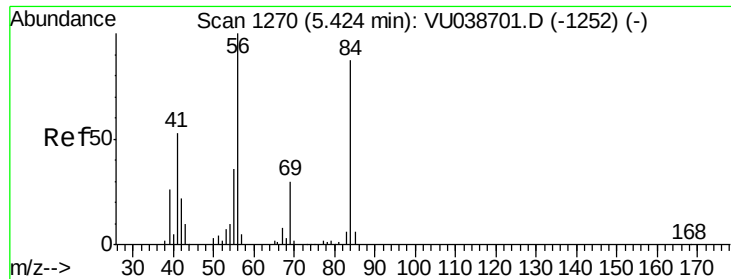
62 100

98 5.3 7.8 11.6#



Abundance Ion 62.00 (61.70 to 62.70): VU038707.D (-1303) (-)



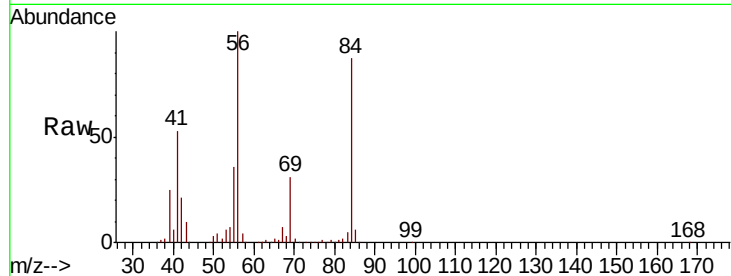


#29
Cyclohexane
Concen: 252.675 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU038707.D
Acq: 09 Jun 2020 07:47

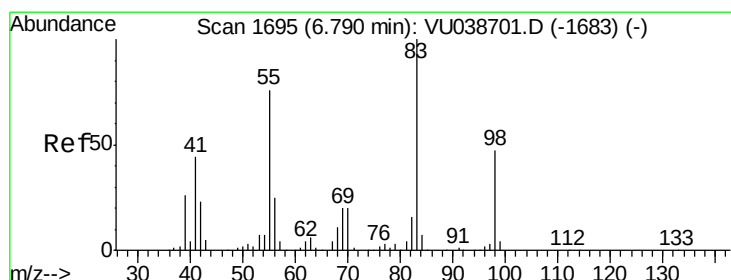
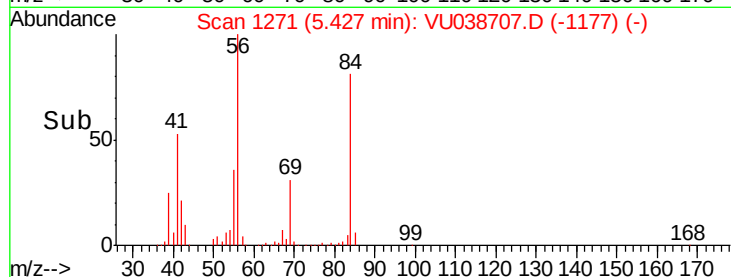
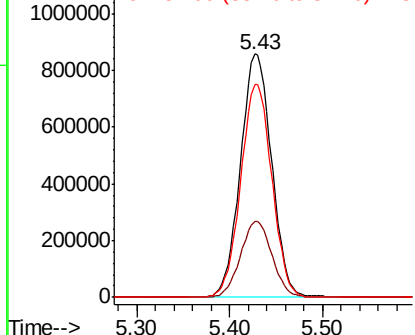
Instrument :
MSVOA_U
ClientSampleId :
F9D83

Tot Ion: 56 Resp: 2002562

Ion	Ratio	Lower	Upper
56	100		
69	31.5	25.1	37.7
84	87.3	70.5	105.7



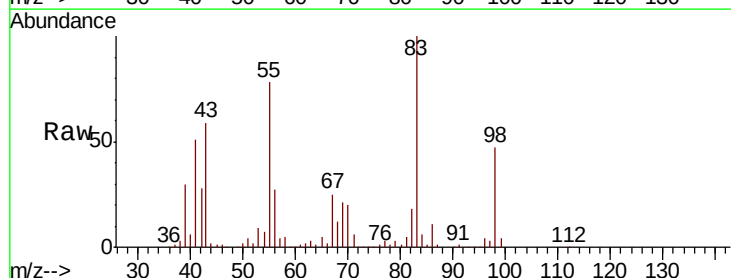
Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0



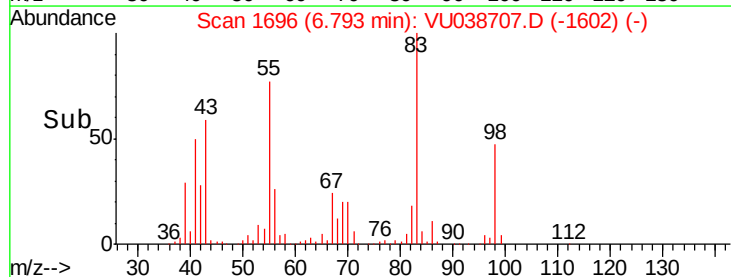
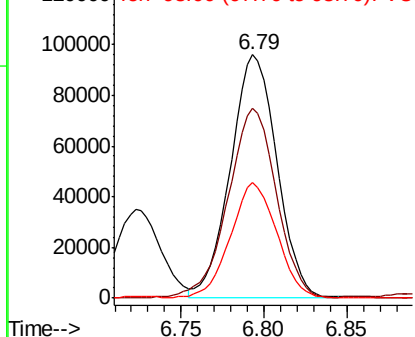
#35
Methylcyclohexane
Concen: 23.688 ug/L
RT: 6.79 min Scan# 1696
Delta R.T. 0.00 min
Lab File: VU038707.D
Acq: 09 Jun 2020 07:47

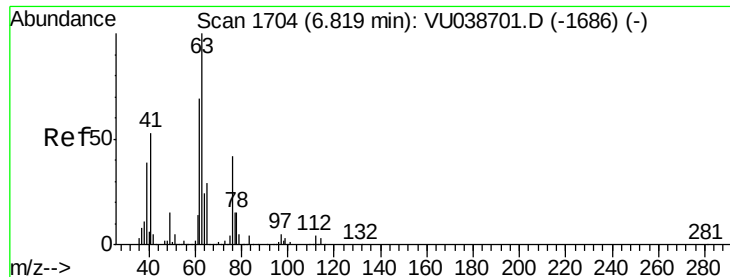
Tgt Ion: 83 Resp: 186903

Ion	Ratio	Lower	Upper
83	100		
55	80.1	63.2	94.8
98	47.6	38.4	57.6



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

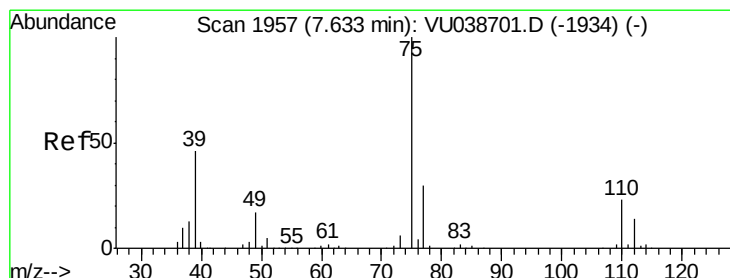
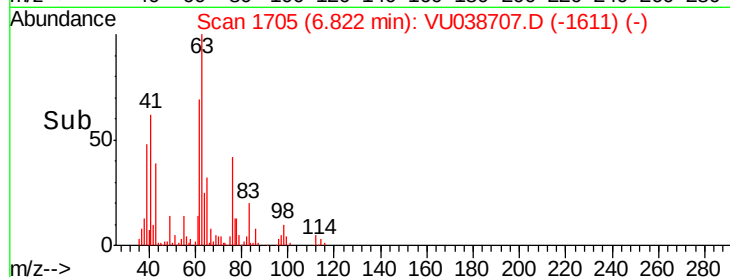
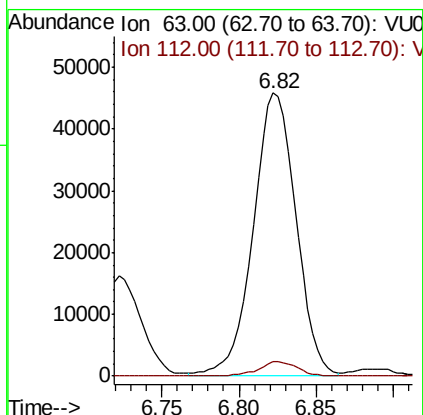
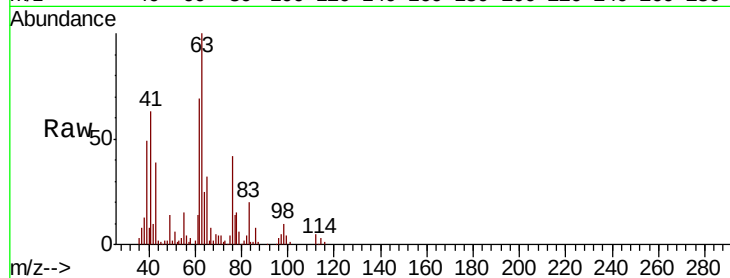




#37
 1,2-Dichloropropane
 Concen: 16.481 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU038707.D
 Acq: 09 Jun 2020 07:47

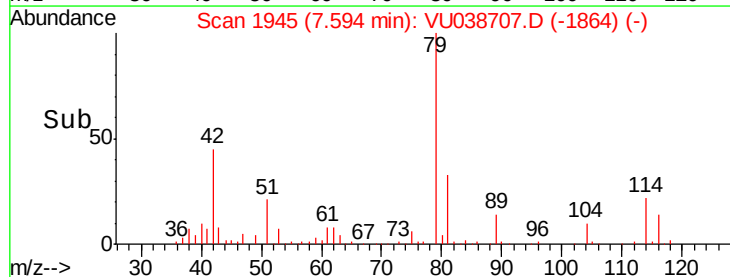
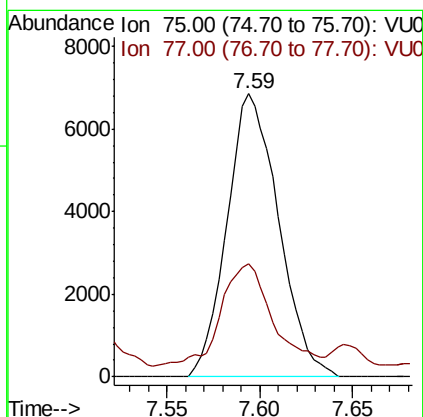
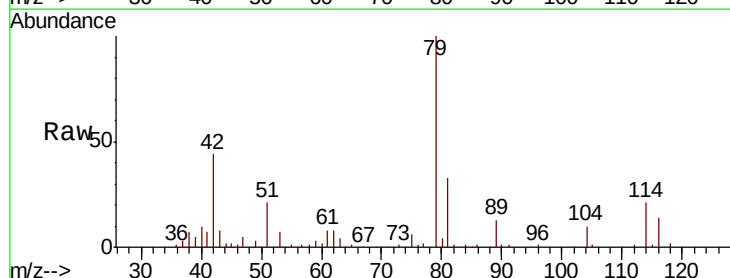
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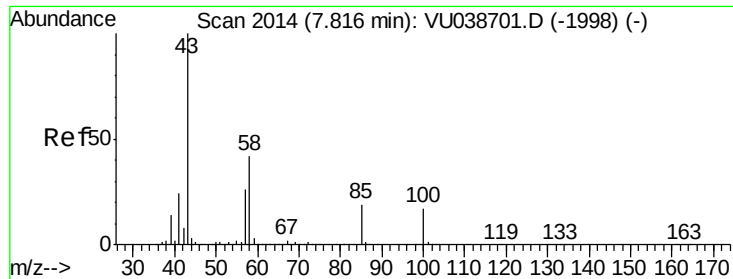
Tot Ion: 63 Resp: 88349
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.4 5.2



#39
 cis-1,3-Dichloropropene
 Concen: 1.604 ug/L
 RT: 7.59 min Scan# 1945
 Delta R.T. -0.04 min
 Lab File: VU038707.D
 Acq: 09 Jun 2020 07:47

Tgt Ion: 75 Resp: 13260
 Ion Ratio Lower Upper
 75 100
 77 40.1 22.2 41.2

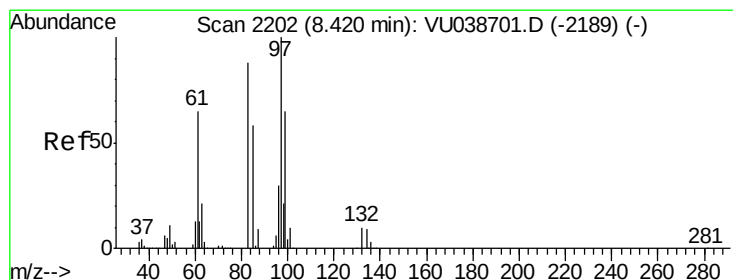
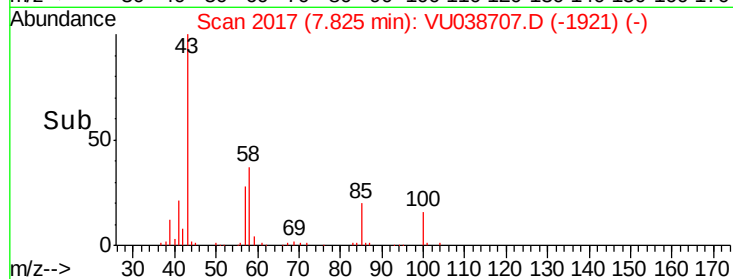
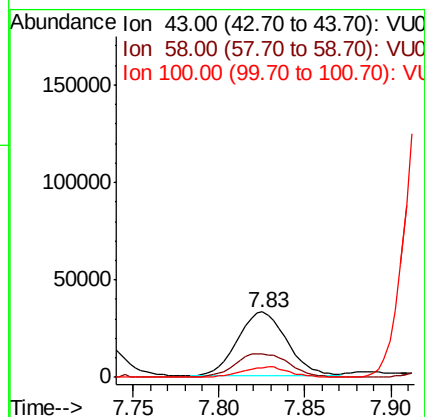
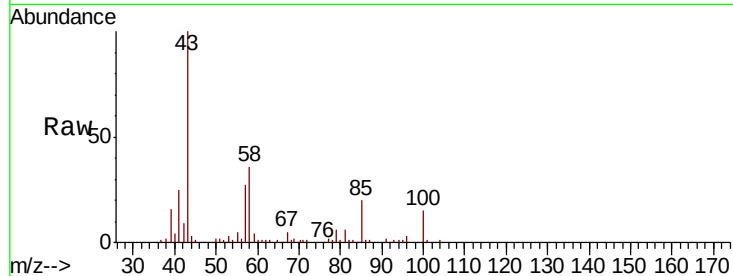




#40
4-Methyl-2-pentanone
Concen: 7.723 ug/L
RT: 7.83 min Scan# 2017
Delta R.T. 0.01 min
Lab File: VU038707.D
Acq: 09 Jun 2020 07:47

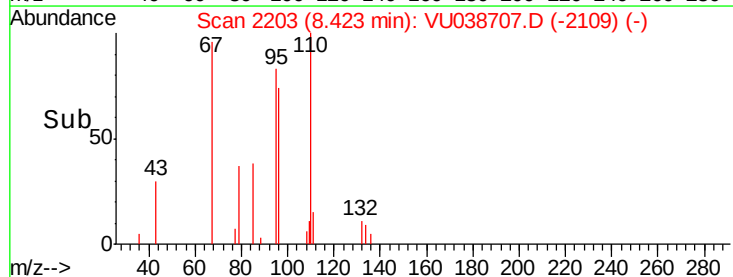
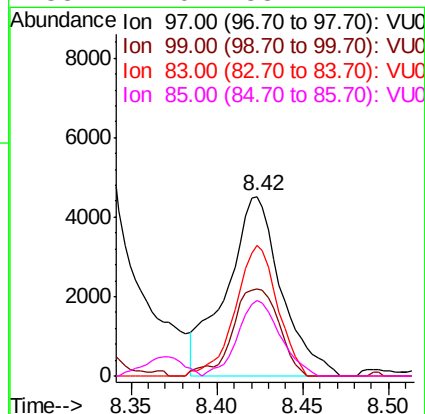
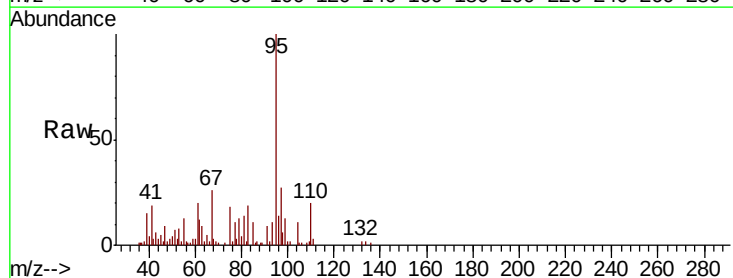
Instrument :
MSVOA_U
ClientSampleId :
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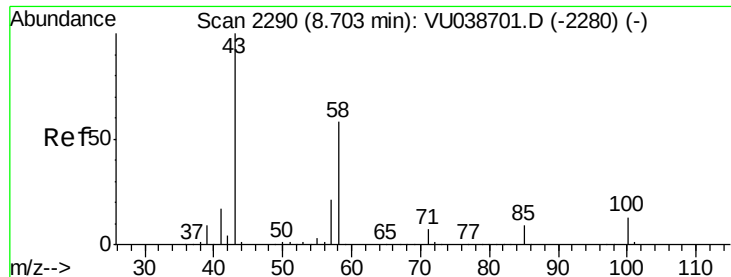
Tot Ion: 43 Resp: 64720
Ion Ratio Lower Upper
43 100
58 41.0 33.0 49.4
100 16.1 13.4 20.0



#45
1,1,2-Trichloroethane
Concen: 1.936 ug/L
RT: 8.42 min Scan# 2203
Delta R.T. 0.00 min
Lab File: VU038707.D
Acq: 09 Jun 2020 07:47

Tgt Ion: 97 Resp: 9987
Ion Ratio Lower Upper
97 100
99 48.5 43.6 81.0
83 72.6 60.0 111.4
85 42.0 38.4 71.2

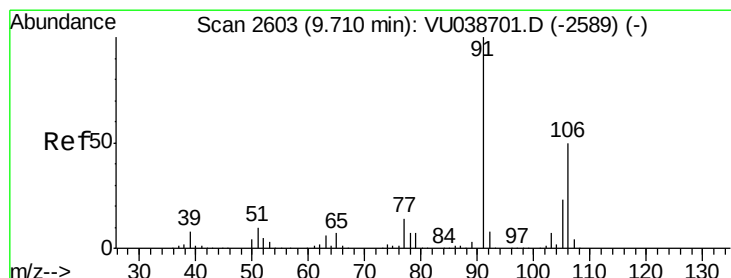
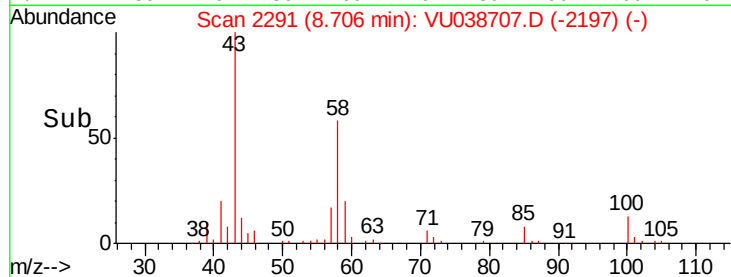
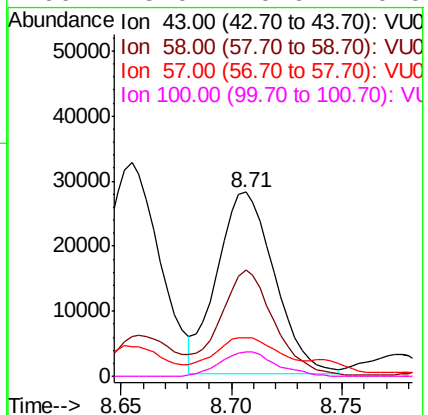
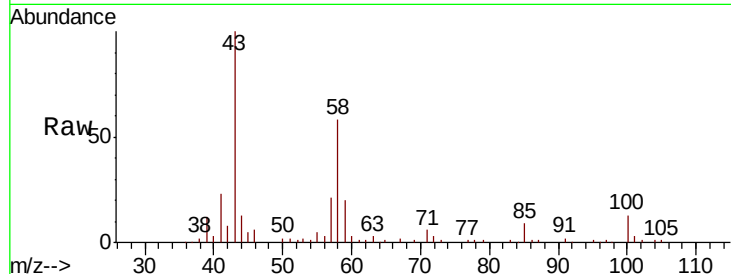




#48
2-Hexanone
Concen: 7.276 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU038707.D
Acq: 09 Jun 2020 07:47

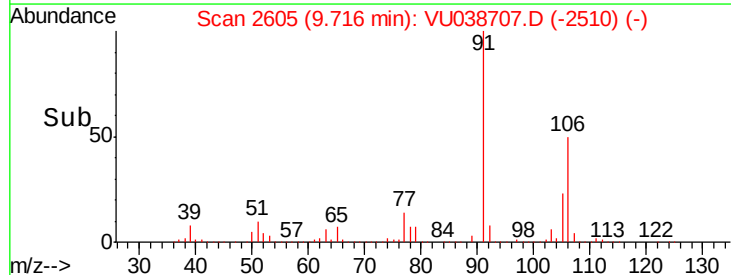
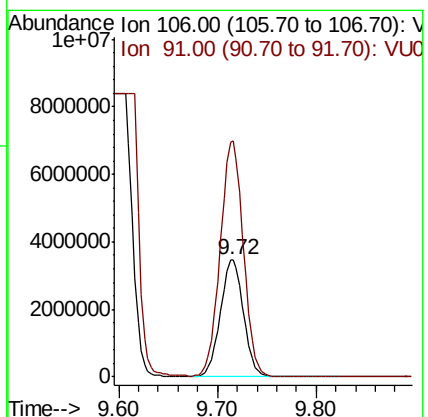
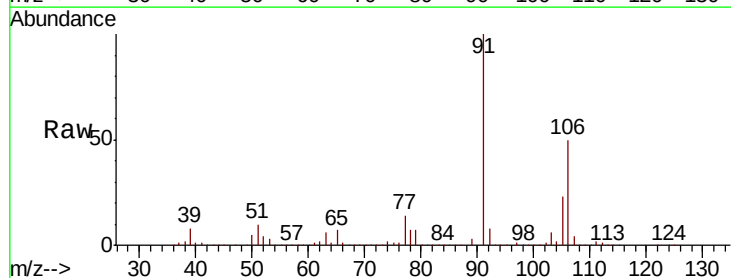
Instrument :
MSVOA_U
ClientSampleId :
F9D83

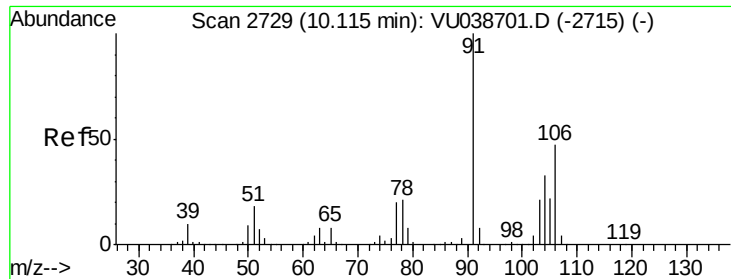
Tot Ion: 43 Resp: 50406
Ion Ratio Lower Upper
43 100
58 55.8 46.2 69.4
57 14.0 16.6 24.8#
100 13.0 10.6 16.0



#53
m,p-Xylene
Concen: 628.007 ug/L
RT: 9.72 min Scan# 2605
Delta R.T. 0.01 min
Lab File: VU038707.D
Acq: 09 Jun 2020 07:47

Tgt Ion: 106 Resp: 5722671
Ion Ratio Lower Upper
106 100
91 201.2 140.1 260.3





#54

o-xylene

Concen: 789.167 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.01 min

Lab File: VU038707.D

Acq: 09 Jun 2020 07:47

Instrument :

MSVOA_U

ClientSampled :

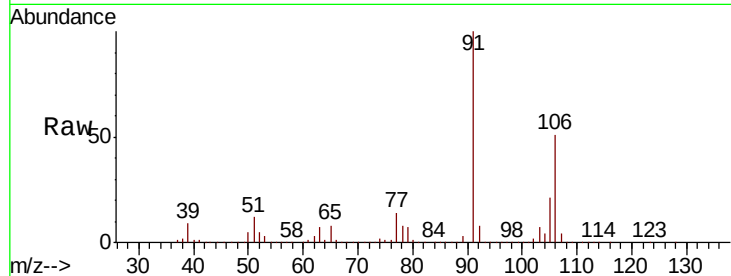
F9D83

Tot Ion:106 Resp: 6981109

Ion Ratio Lower Upper

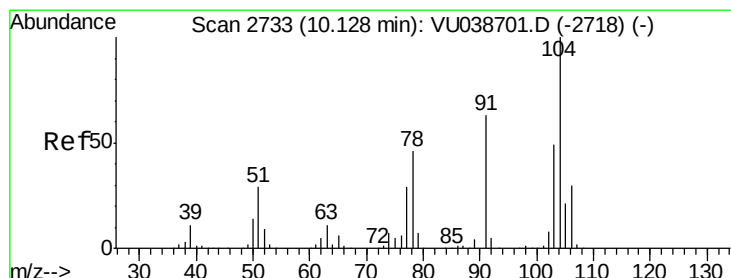
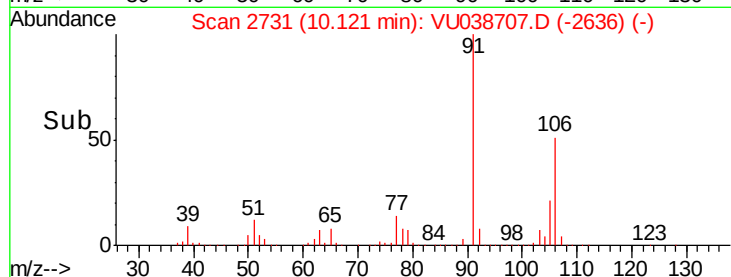
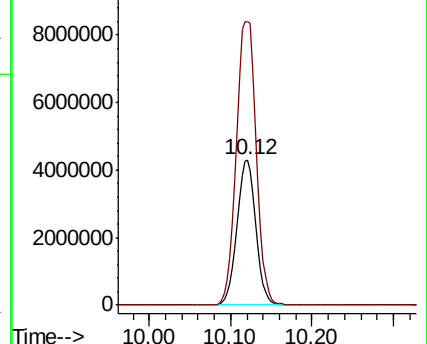
106 100

91 194.5 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 40.200 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU038707.D

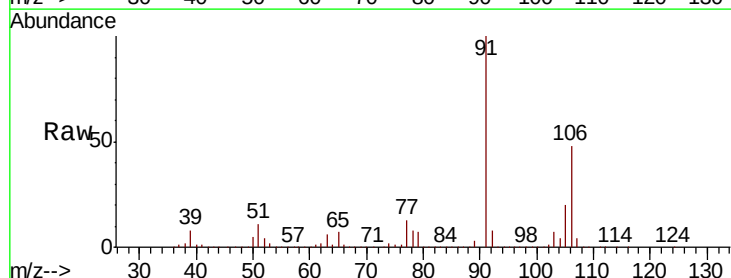
Acq: 09 Jun 2020 07:47

Tgt Ion:104 Resp: 616479

Ion Ratio Lower Upper

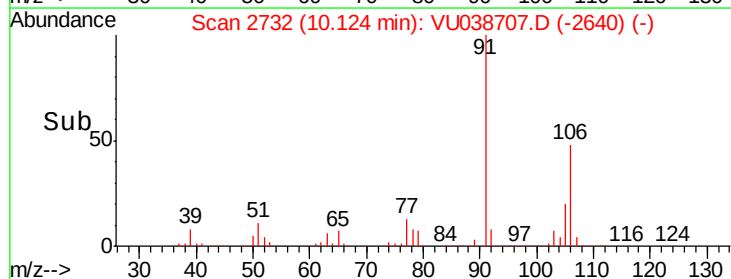
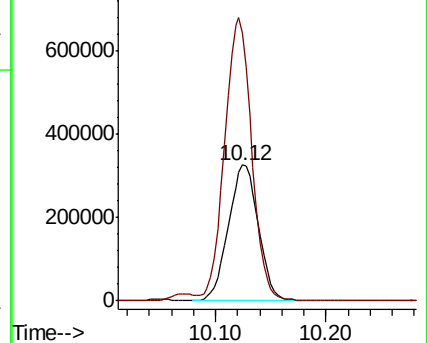
104 100

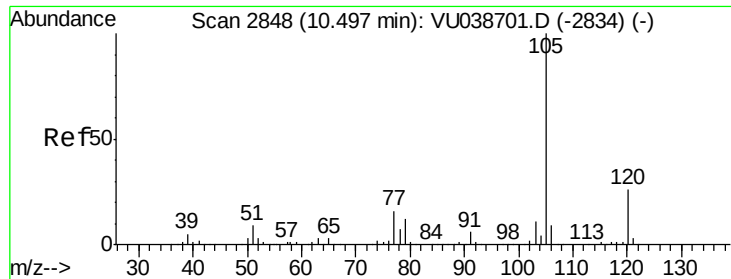
78 197.4 31.6 58.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 42.514 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU038707.D

Acq: 09 Jun 2020 07:47

Instrument :

MSVOA_U

ClientSampleId :

F9D83

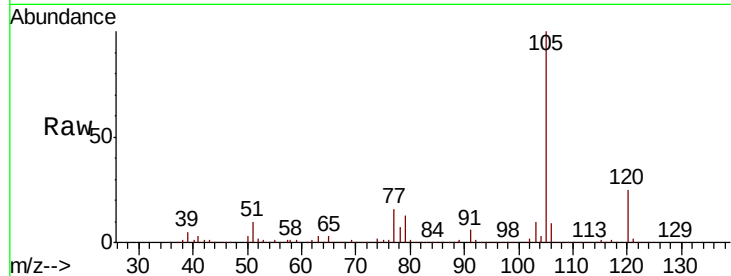
Tot Ion:105 Resp: 981551

Ion Ratio Lower Upper

105 100

120 25.6 20.9 31.3

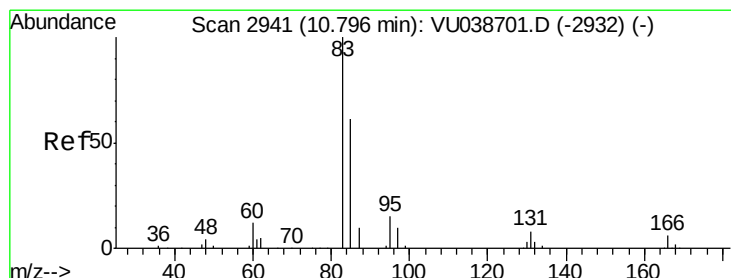
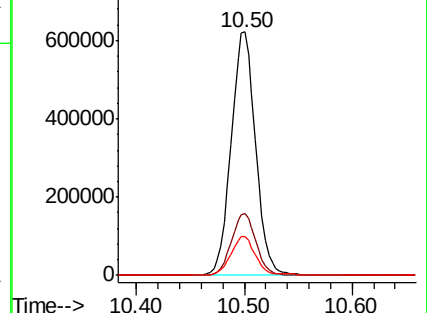
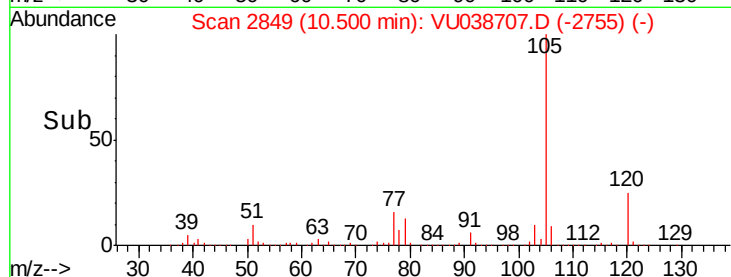
77 16.0 12.6 19.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 2.429 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. 0.01 min

Lab File: VU038707.D

Acq: 09 Jun 2020 07:47

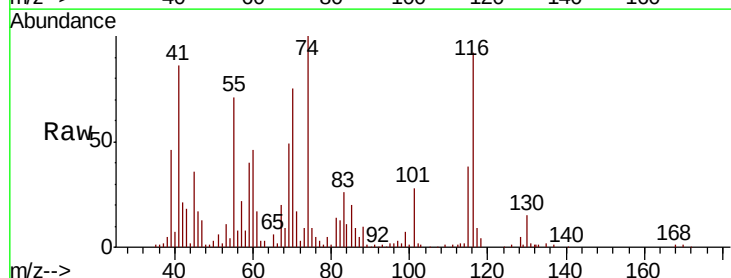
Tgt Ion: 83 Resp: 21331

Ion Ratio Lower Upper

83 100

85 78.3 45.3 84.1

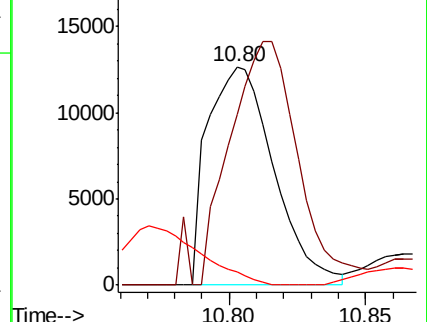
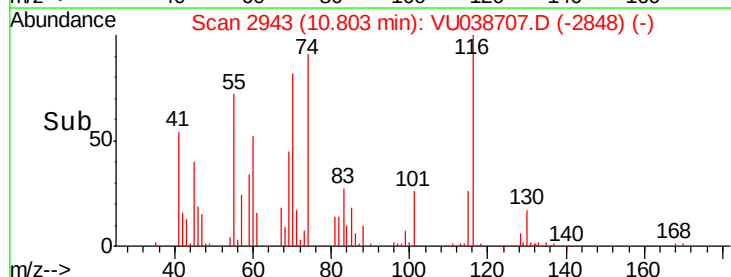
131 5.9 7.2 10.8#

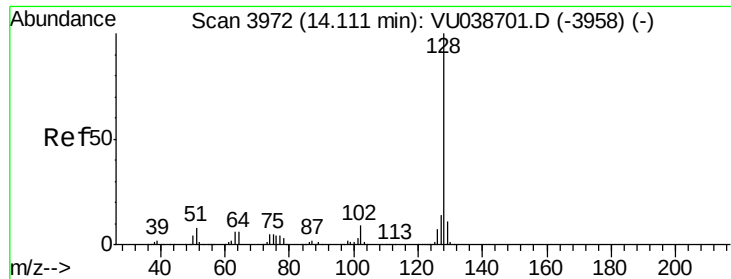


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#69

Naphthalene

Concen: 130.027 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU038707.D

Acq: 09 Jun 2020 07:47

Instrument :

MSVOA_U

ClientSampleId :

F9D83

Tot Ion:128 Resp: 3548359

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	10.9	8.6	12.8

