

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092319\
 Data File : VU034751.D
 Acq On : 23 Sep 2019 22:29
 Operator : JC/SP
 Sample : K4932-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG9

Manual Integrations
 APPROVED

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 9/24/2019 12:48:26 PM

Quant Time: Sep 24 05:18:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Sep 24 03:36:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	491282	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	460452	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	228795	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	201814	40.13	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.26%
7) Chloroethane-d5	1.67	69	170812	43.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.88%
11) 1,1-Dichloroethene-d2	2.26	63	282899	33.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.44%
21) 2-Butanone-d5	4.15	46	439532	114.03	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.03%
24) Chloroform-d	4.62	84	356381	48.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.48%
26) 1,2-Dichloroethane-d4	5.29	65	263140	48.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.92%
32) Benzene-d6	5.32	84	717164	50.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.50%
36) 1,2-Dichloropropane-d6	6.31	67	258181	51.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	103.52%
41) Toluene-d8	7.54	98	700918	51.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.24%
43) trans-1,3-Dichloropropene-	7.83	79	118184	49.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.94%
47) 2-Hexanone-d5	8.29	63	289872	115.70	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.70%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	349535	50.50	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.00%
64) 1,2-Dichlorobenzene-d4	11.84	152	250914	52.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.31	43	55445	12.365	ug/L	95
16) Methylene chloride	2.68	84	31777	7.805	ug/L	98
19) 1,1-Dichloroethane	3.42	63	7978	0.990	ug/L	98
20) cis-1,2-Dichloroethene	4.21	96	9992	2.432	ug/L	83
22) 2-Butanone	4.26	43	14441m	2.707	ug/L	
29) Cyclohexane	4.97	56	33413	4.396	ug/L	100
33) Benzene	5.37	78	575955	36.066	ug/L	100
34) Trichloroethene	6.17	95	73927	18.744	ug/L	99
35) Methylcyclohexane	6.39	83	31578	4.718	ug/L	97
37) 1,2-Dichloropropane	6.41	63	10402	2.188	ug/L #	96
40) 4-Methyl-2-pentanone	7.44	43	261340	28.787	ug/L	99
42) Toluene	7.61	91	4490417	260.182	ug/L	97
46) Tetrachloroethene	8.21	164	22342	8.053	ug/L	96
52) Ethylbenzene	9.23	91	1017658	52.363	ug/L	100
53) m,p-Xylene	9.35	106	1382334	200.812	ug/L	100
54) o-xylene	9.76	106	817807	120.114	ug/L	97
56) Isopropylbenzene	10.14	105	91004	4.957	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Tue Sep 24 03:36:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.48	146	13471	1.669	ug/L	96
65) 1,2-Dichlorobenzene	11.85	146	105012	13.117	ug/L	96

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

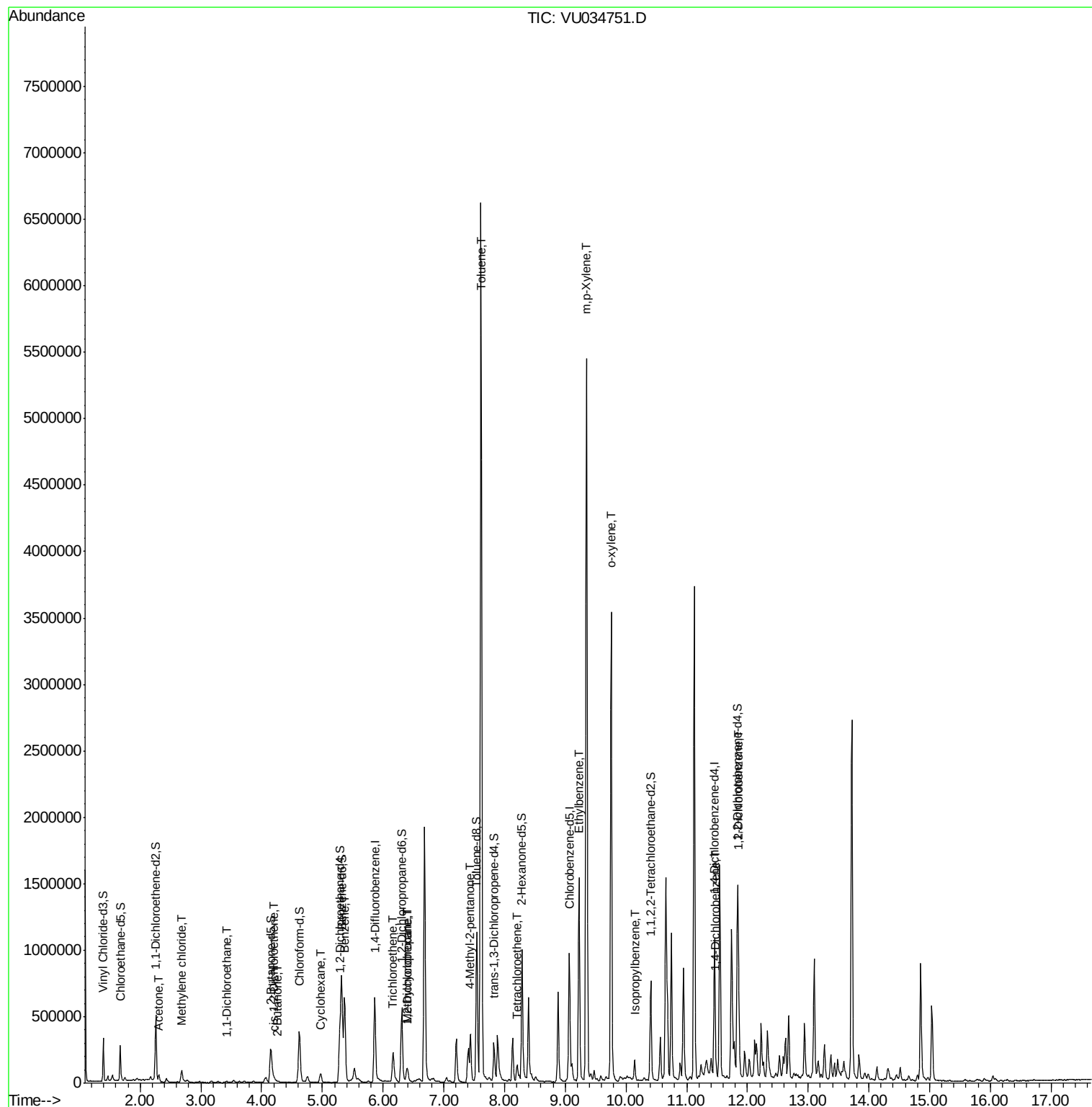
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Data File : VU034751.D
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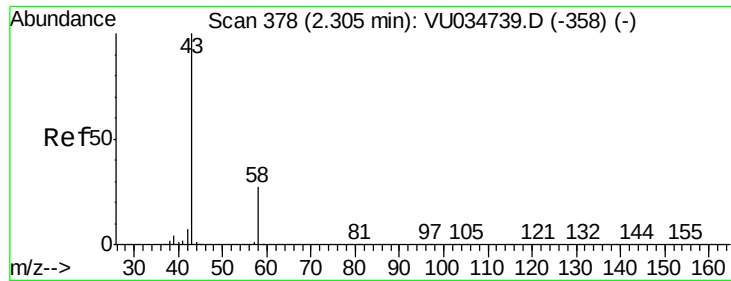
Instrument :
MSVOA_U
ClientSampleId :
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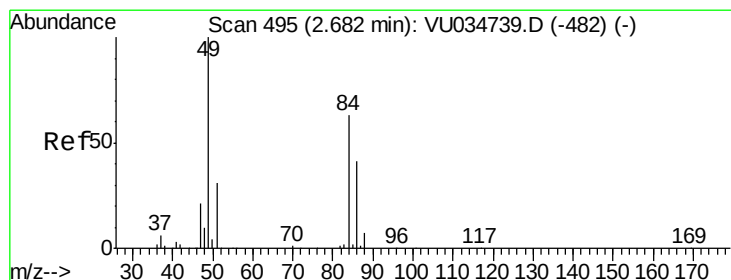
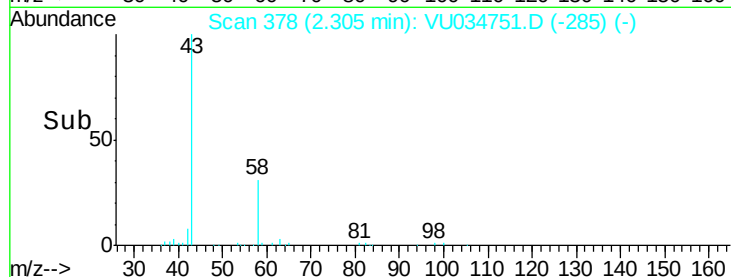
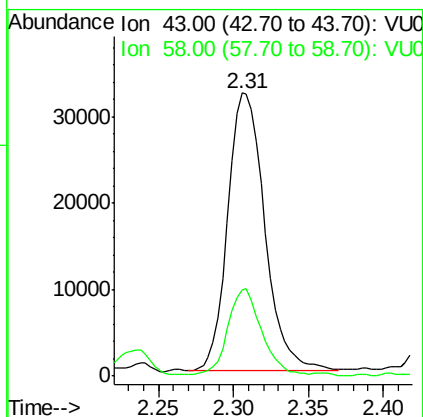
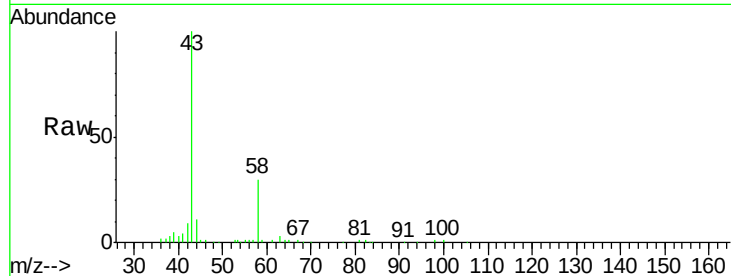
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Acetone
Concen: 12.365 ug/L
RT: 2.31 min Scan# 378
Delta R.T. -0.00 min
Lab File: VU034751.D
Acq: 23 Sep 2019 22:29

Instrument :
MSVOA_U
ClientSampled :
BFDG9

Tot Ion: 43 Resp: 55445
Ion Ratio Lower Upper
43 100
58 29.2 0.0 53.4

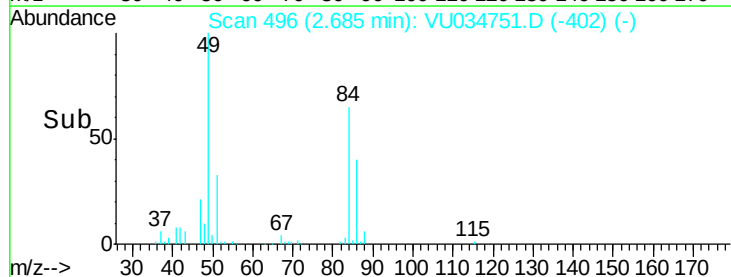
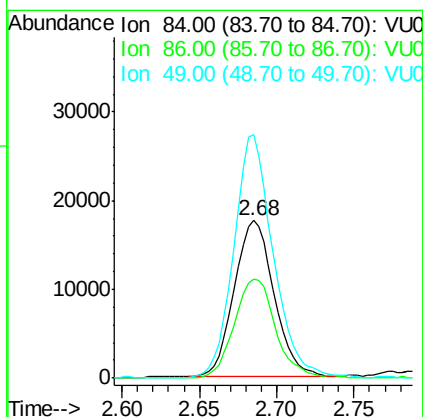
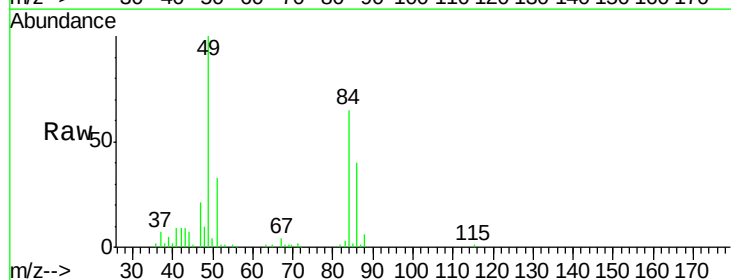
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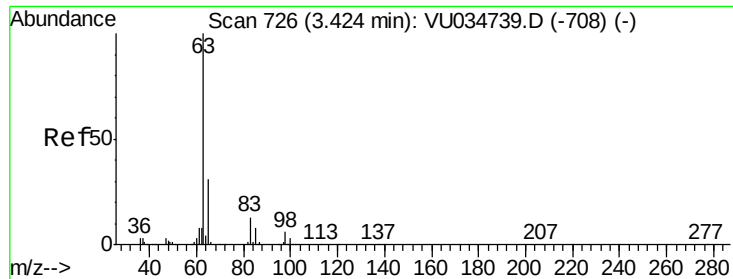
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#16
Methylene chloride
Concen: 7.805 ug/L
RT: 2.68 min Scan# 496
Delta R.T. 0.00 min
Lab File: VU034751.D
Acq: 23 Sep 2019 22:29

Tgt Ion: 84 Resp: 31777
Ion Ratio Lower Upper
84 100
86 62.5 43.0 80.0
49 154.5 109.7 203.7





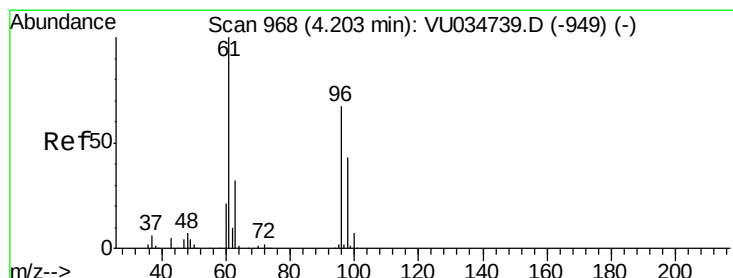
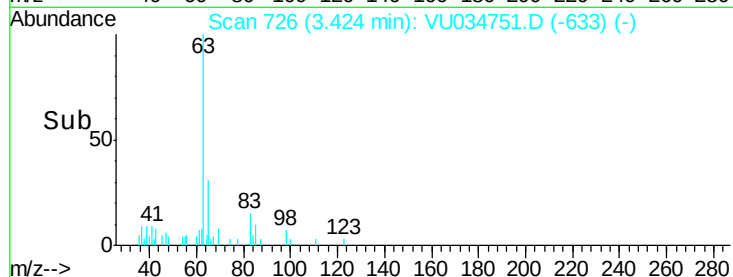
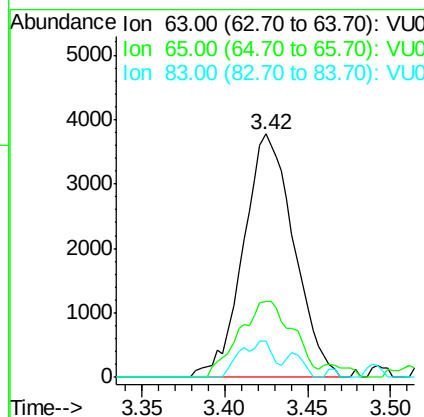
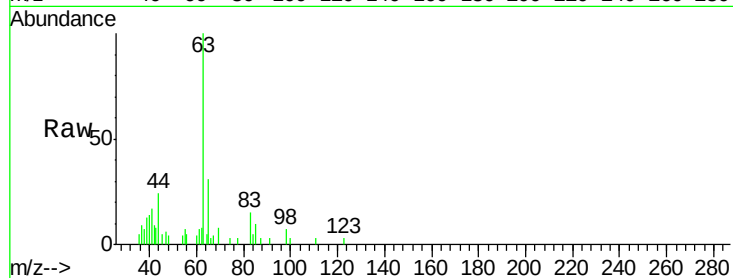
#19
 1,1-Dichloroethane
 Concen: 0.990 ug/L
 RT: 3.42 min Scan# 726
 Delta R.T. -0.00 min
 Lab File: VU034751.D
 Acq: 23 Sep 2019 22:29

Instrument :
 MSVOA_U
 ClientSampled :
 BFDG9

Tot Ion:	63	Resp:	7978
Ion	Ratio	Lower	Upper
63	100		
65	31.4	22.0	40.8
83	15.0	8.9	16.5

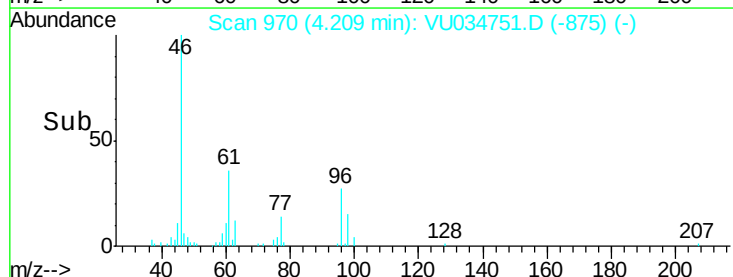
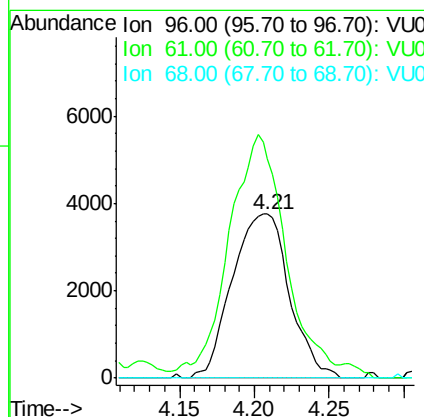
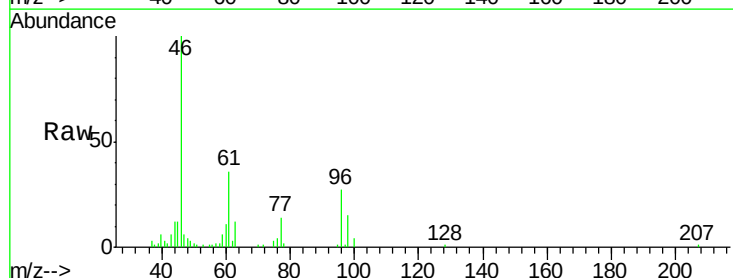
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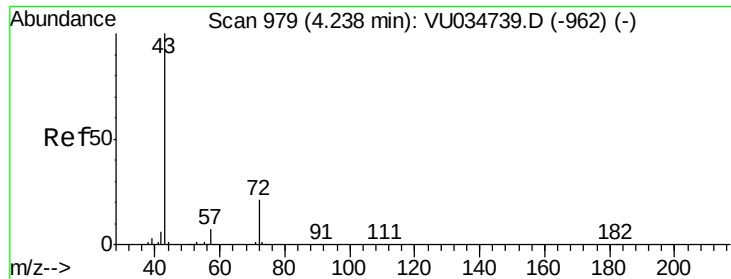
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#20
 cis-1,2-Dichloroethene
 Concen: 2.432 ug/L
 RT: 4.21 min Scan# 970
 Delta R.T. 0.01 min
 Lab File: VU034751.D
 Acq: 23 Sep 2019 22:29

Tgt Ion:	96	Resp:	9992
Ion	Ratio	Lower	Upper
96	100		
61	133.9	108.8	202.2
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 2.707 ug/L m

RT: 4.26 min Scan# 987

Delta R.T. 0.03 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampleId :

BFDG9

Tot Ion: 43 Resp: 14441

Ion Ratio Lower Upper

43 100

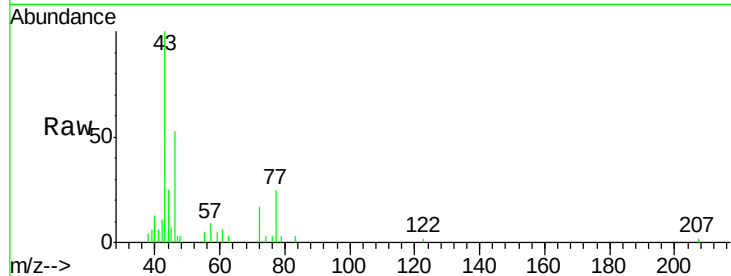
72 6.0 10.2 30.6#

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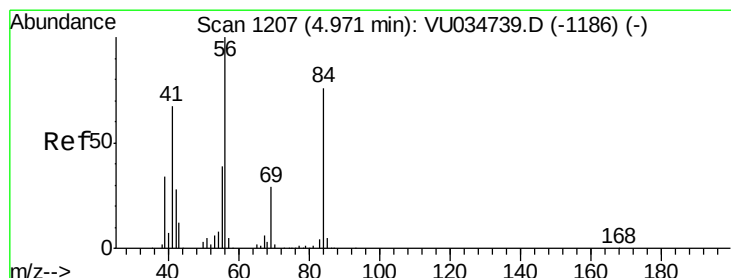
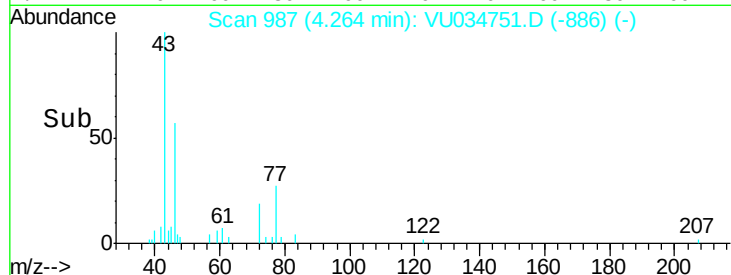
Abundance Ion 43.00 (42.70 to 43.70): VU034751.D (-987) (-)

Ion 72.00 (71.70 to 72.70): VU034751.D (-987) (-)

4.26

4.20 4.25 4.30 4.35

Time-->



#29

Cyclohexane

Concen: 4.396 ug/L

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

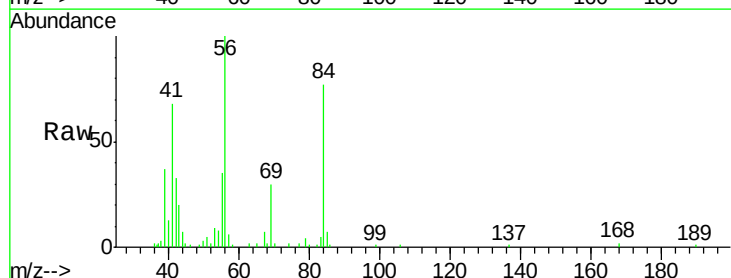
Tgt Ion: 56 Resp: 33413

Ion Ratio Lower Upper

56 100

69 27.6 21.7 32.5

84 73.6 58.8 88.2



Abundance Ion 56.00 (55.70 to 56.70): VU034751.D (-1208) (-)

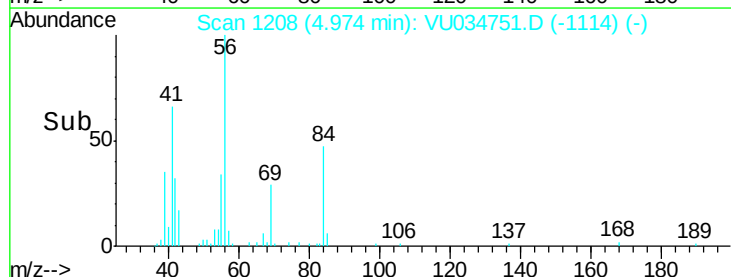
Ion 69.00 (68.70 to 69.70): VU034751.D (-1208) (-)

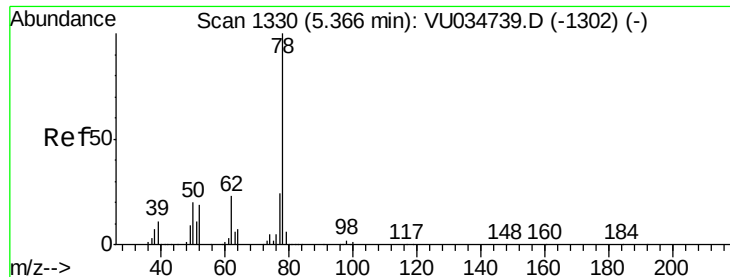
Ion 84.00 (83.70 to 84.70): VU034751.D (-1208) (-)

4.97

4.90 4.95 5.00 5.05

Time-->





#33

Benzene

Concen: 36.066 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

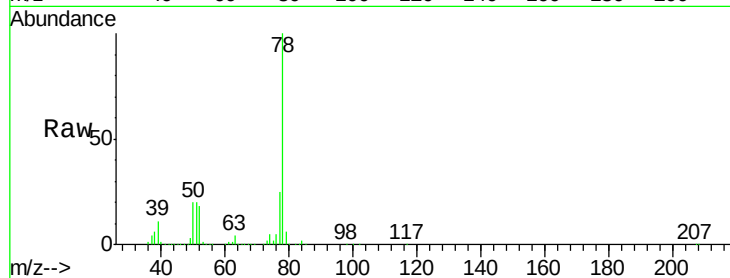
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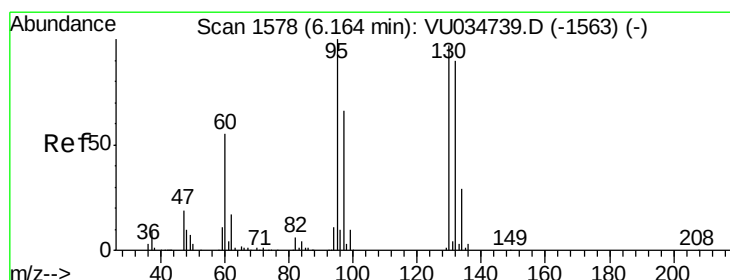
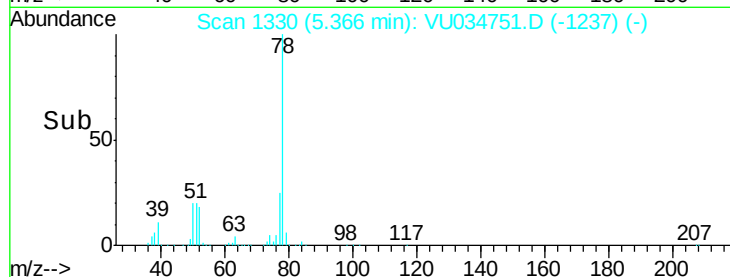
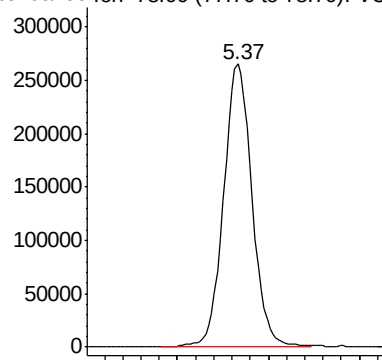
Tgt Ion: 78 Resp: 575955

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Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 18.744 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Tgt Ion: 95 Resp: 73927

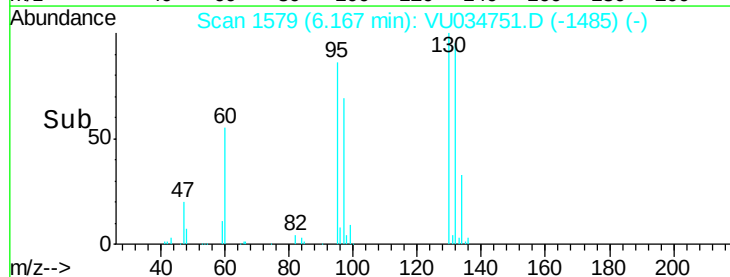
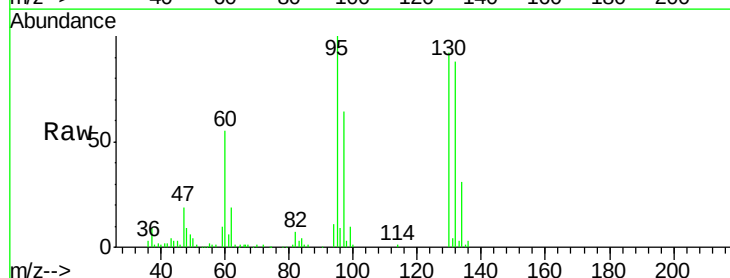
Ion	Ratio	Lower	Upper
95	100		
97	63.9	43.7	81.1
132	87.6	61.0	113.2
130	92.1	65.7	121.9

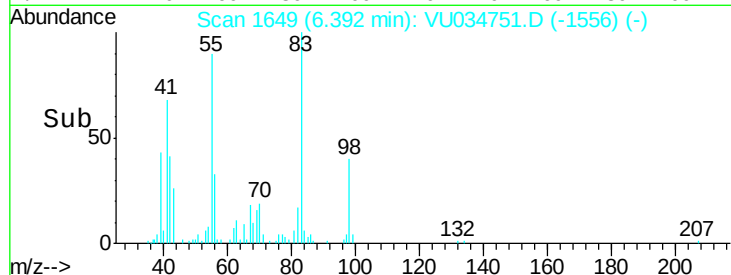
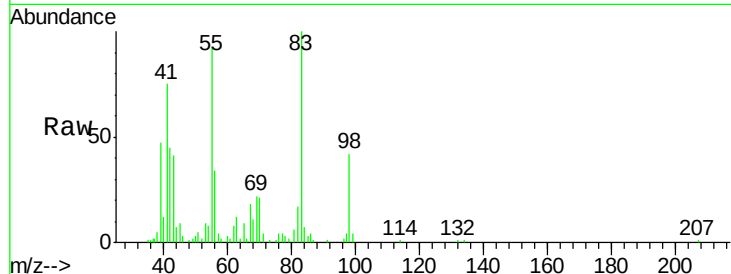
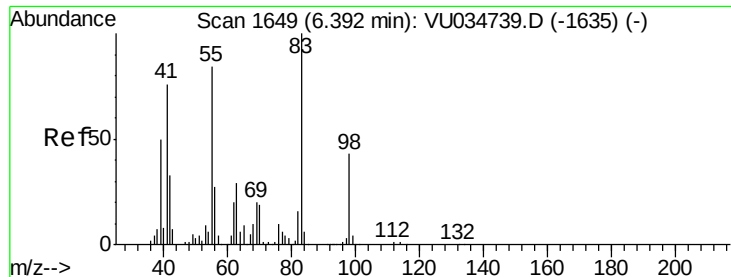
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V





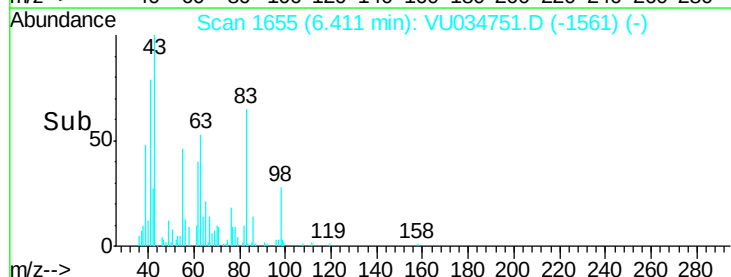
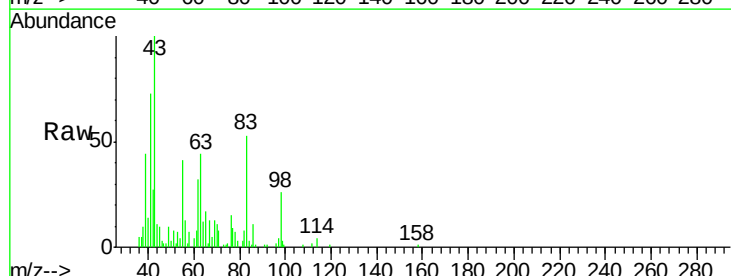
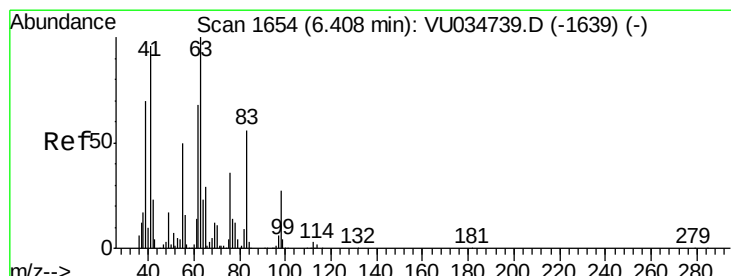
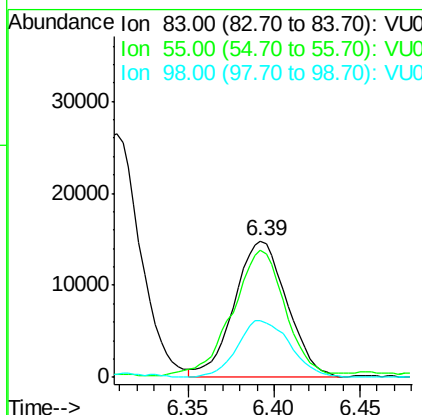
#35
Methylcyclohexane
Concen: 4.718 ug/L
RT: 6.39 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VU034751.D
Acq: 23 Sep 2019 22:29

Tot Ion	Ratio	Lower	Upper
83	100		
55	92.2	71.6	107.4
98	41.9	35.7	53.5

Instrument :
MSVOA_U
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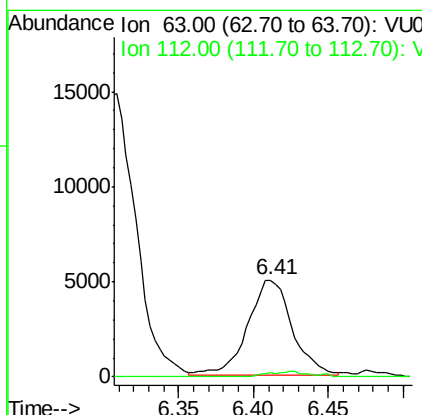
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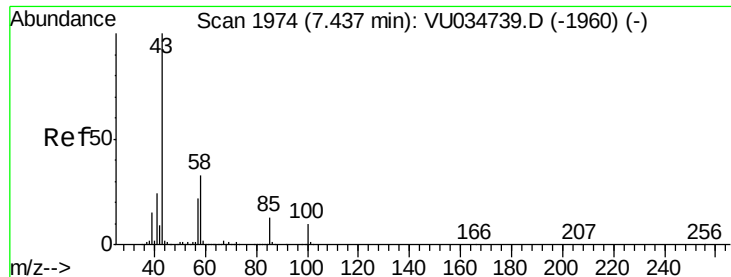
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#37
1,2-Dichloropropane
Concen: 2.188 ug/L
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VU034751.D
Acq: 23 Sep 2019 22:29

Tgt Ion	Ratio	Lower	Upper
63	100		
112	1.5	2.4	3.6#





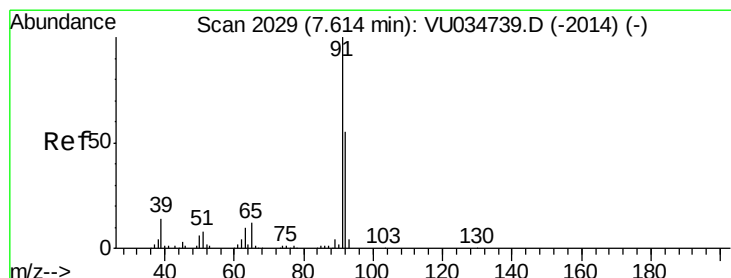
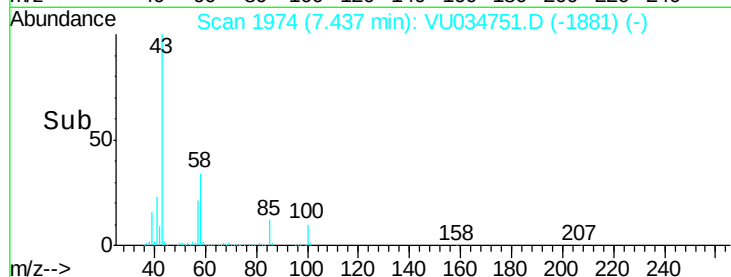
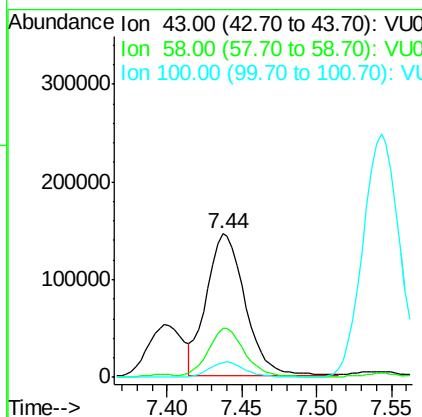
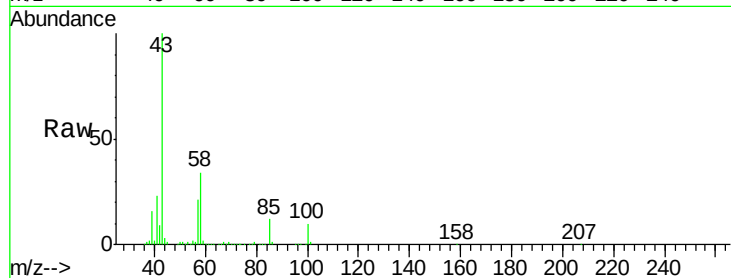
#40
4-Methyl-2-pentanone
Concen: 28.787 ug/L
RT: 7.44 min Scan# 1974
Delta R.T. -0.00 min
Lab File: VU034751.D
Acq: 23 Sep 2019 22:29

Instrument :
MSVOA_U
ClientSampleId :
BFDG9

Tot Ion	Ratio	Lower	Upper
43	100		
58	32.1	25.2	37.8
100	10.1	7.7	11.5

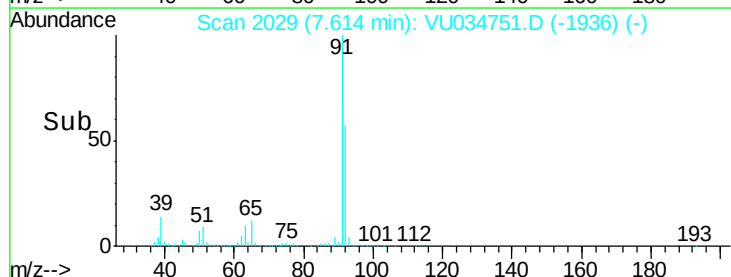
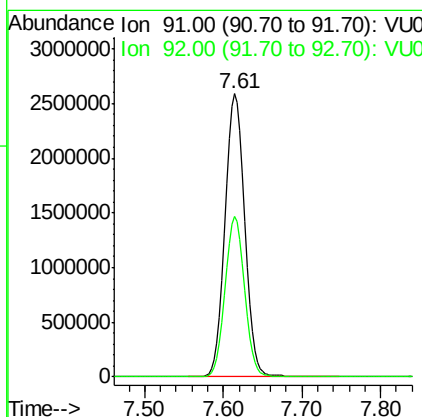
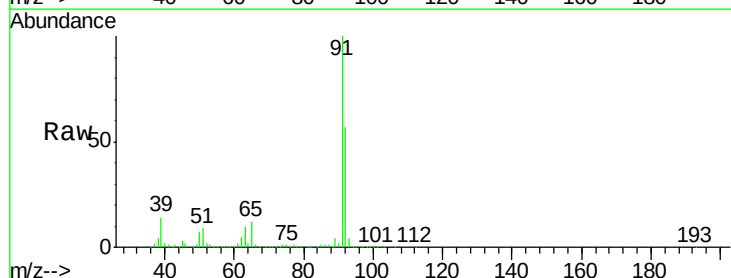
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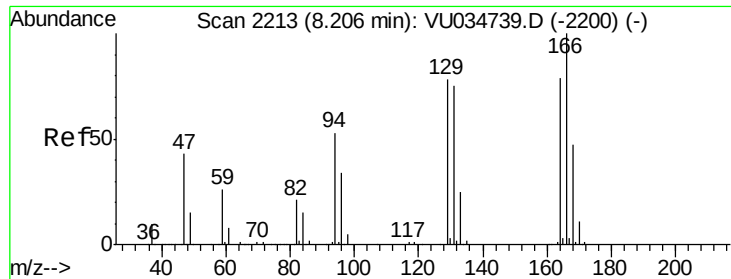
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#42
Toluene
Concen: 260.182 ug/L
RT: 7.61 min Scan# 2029
Delta R.T. -0.00 min
Lab File: VU034751.D
Acq: 23 Sep 2019 22:29

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.6	38.2	71.0





#46

Tetrachloroethene

Concen: 8.053 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

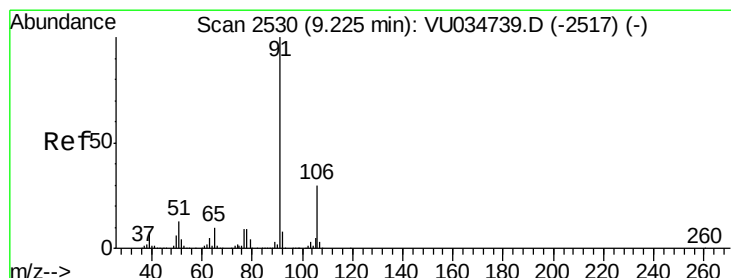
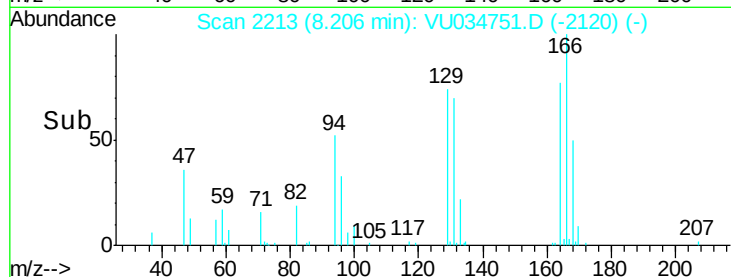
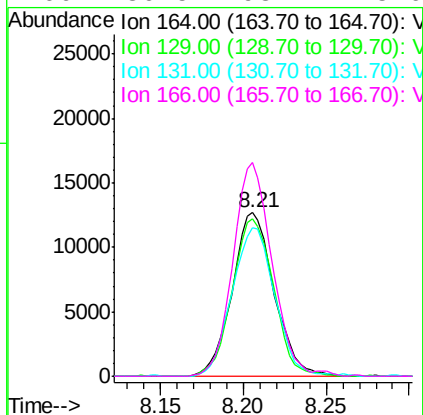
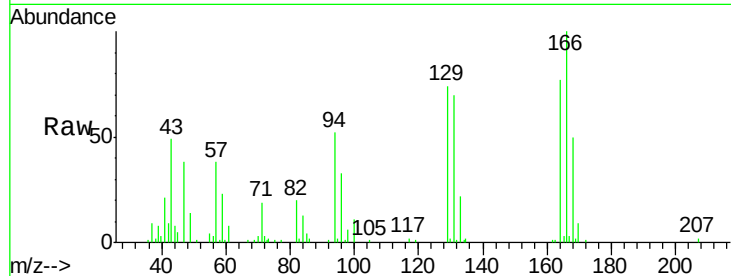
ClientSampleId :

BFDG9

Tot Ion	164	Resp	22342
Ion	Ratio	Lower	Upper
164	100		
129	96.5	71.9	133.5
131	90.7	66.3	123.1
166	130.5	93.4	173.6

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#52

Ethylbenzene

Concen: 52.363 ug/L

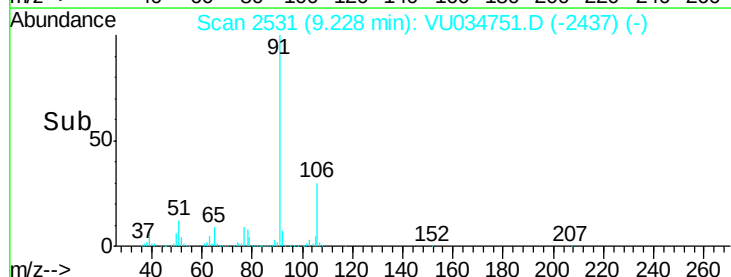
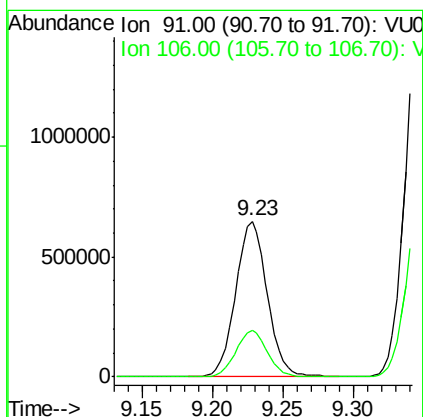
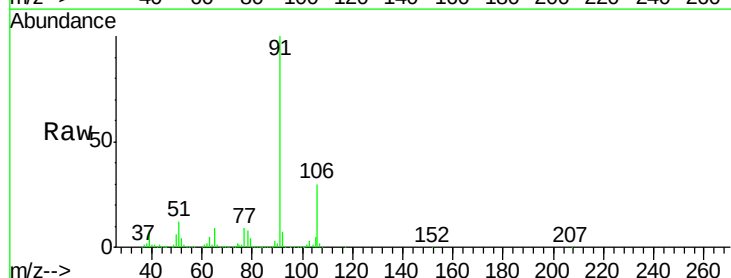
RT: 9.23 min Scan# 2531

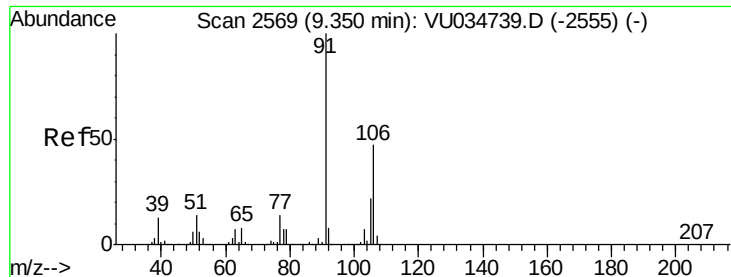
Delta R.T. 0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Tgt Ion	91	Resp	1017658
Ion	Ratio	Lower	Upper
91	100		
106	29.7	20.6	38.4





#53

m,p-Xylene

Concen: 200.812 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034751.D

Acq: 23 Sep 2019 22:29

Instrument :

MSVOA_U

ClientSampled :

BFDG9

Tot Ion:106 Resp: 1382334

Ion Ratio Lower Upper

106 100

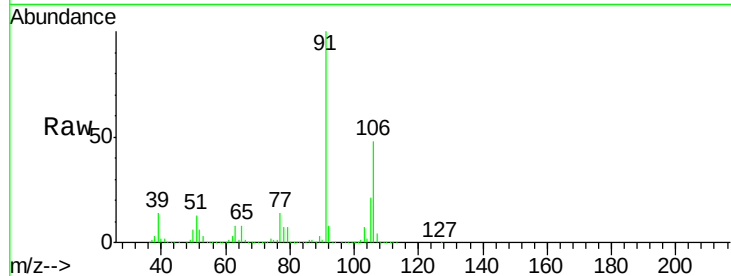
91 209.8 146.9 272.7

Manual Integrations

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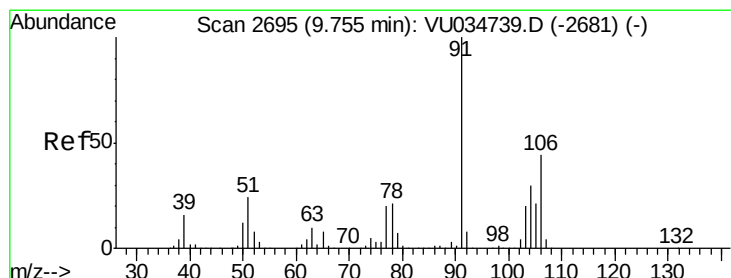
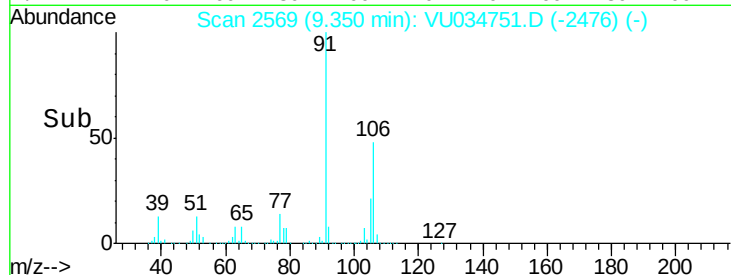
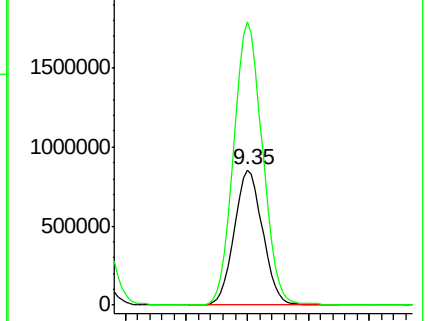
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 120.114 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034751.D

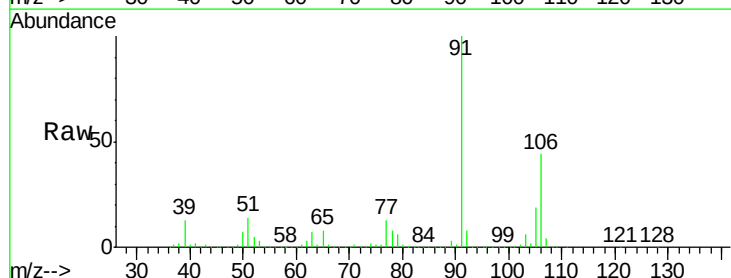
Acq: 23 Sep 2019 22:29

Tgt Ion:106 Resp: 817807

Ion Ratio Lower Upper

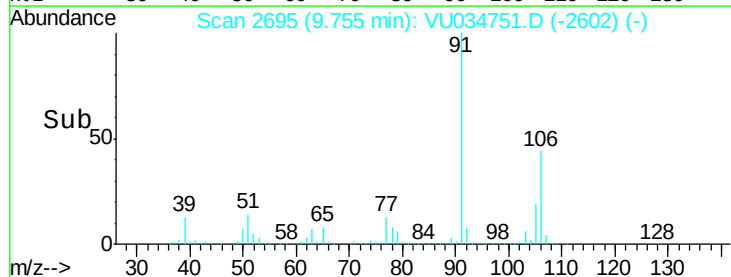
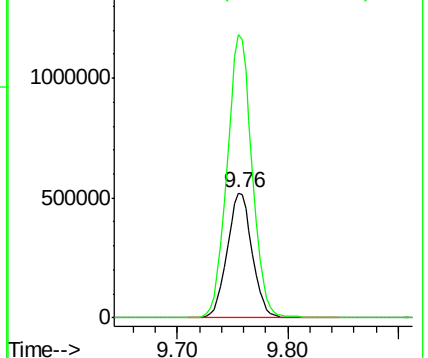
106 100

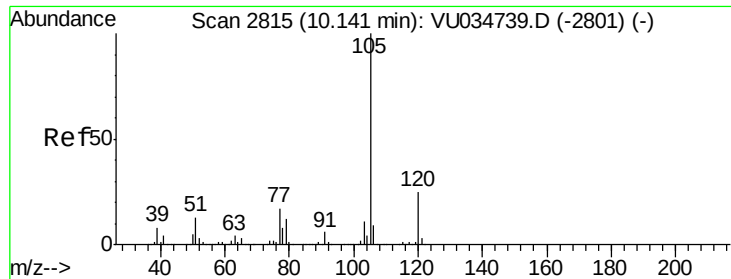
91 226.8 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





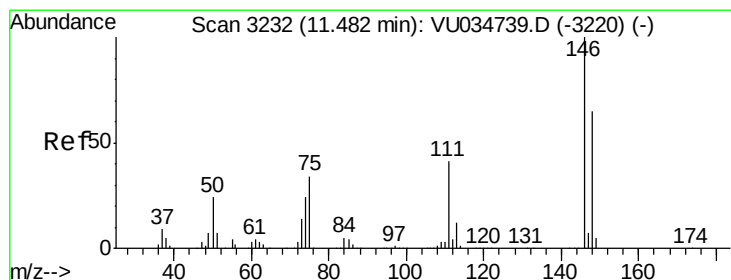
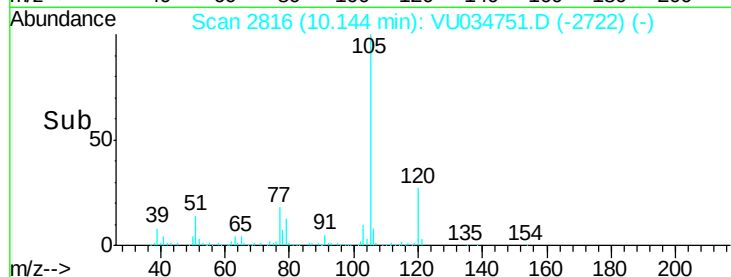
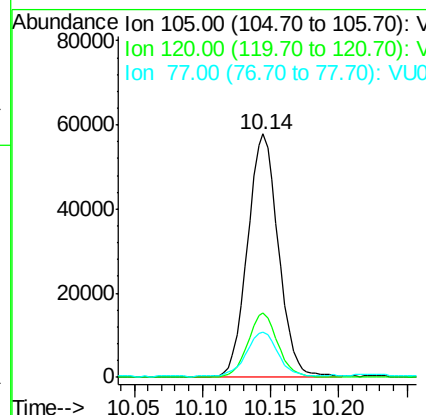
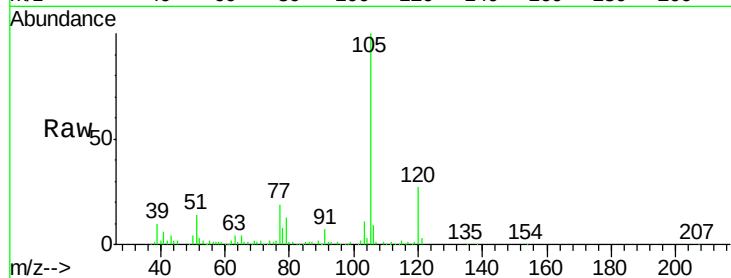
#56
Isopropylbenzene
Concen: 4.957 ug/L
RT: 10.14 min Scan# 2816
Delta R.T. 0.00 min
Lab File: VU034751.D
Acq: 23 Sep 2019 22:29

Instrument :
MSVOA_U
ClientSampleId :
BFDG9

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.4	30.6
77	18.5	14.2	21.4

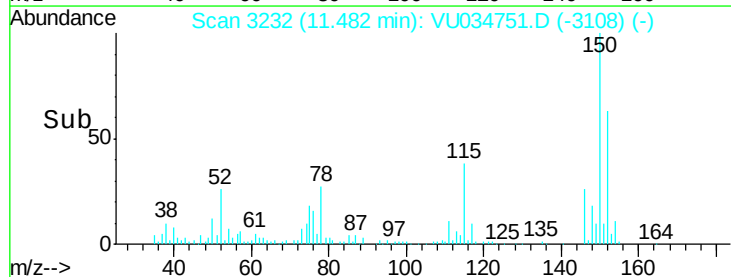
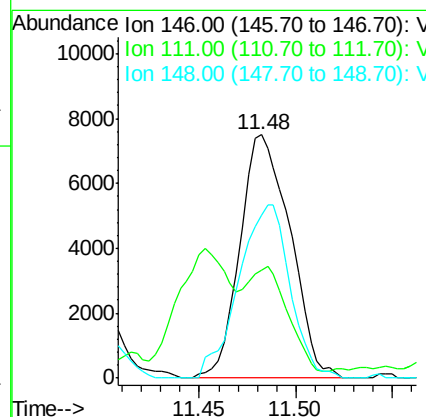
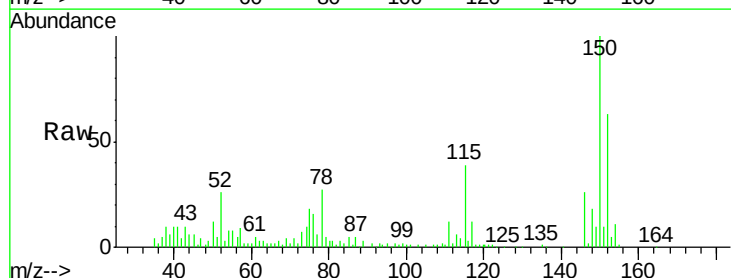
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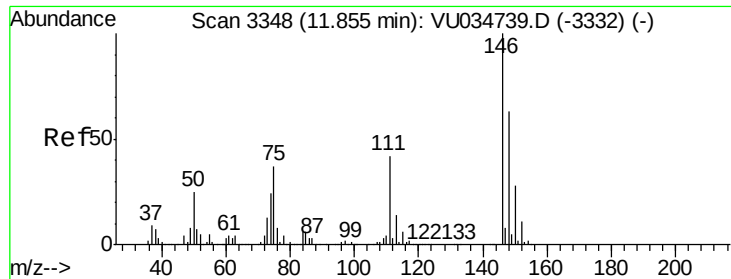
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#63
1,4-Dichlorobenzene
Concen: 1.669 ug/L
RT: 11.48 min Scan# 3232
Delta R.T. -0.00 min
Lab File: VU034751.D
Acq: 23 Sep 2019 22:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.6	29.5	54.9
148	67.0	44.4	82.4





#65
 1,2-Dichlorobenzene
 Concen: 13.117 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034751.D
 Acq: 23 Sep 2019 22:29

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDG9

Tot Ion	Ratio	Resp Lower	Upper
146	100		
111	41.0	35.2	52.8
148	63.8	53.0	79.6

Manual Integrations
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