

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034596.D
 Acq On : 5 Feb 2020 1:48
 Operator : SY/AP
 Sample : L1391-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
 APPROVED

MMDadoda
 2/5/2020 2:51:20 PM

Quant Time: Feb 05 14:29:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	913045	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1868733	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1824772	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1634379	10.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	46044	0.229	ppbv #	81
3) Chlorodifluoromethane	2.95	51	36278m	0.329	ppbv	
4) Chloromethane	3.11	50	32715	0.485	ppbv #	82
9) Propene	2.98	41	277151	6.452	ppbv	90
10) Heptane	8.14	43	13619m	0.126	ppbv	
11) Trichlorofluoromethane	3.92	101	47547m	0.260	ppbv	
13) Ethanol	3.58	45	147620	12.830	ppbv	100
15) Acetone	3.83	43	535792	3.993	ppbv	93
19) Isopropyl Alcohol	3.96	45	66460	0.849	ppbv #	1
20) Methylene Chloride	4.33	84	116716	2.284	ppbv	96
26) Hexane	5.68	57	78740	0.865	ppbv #	37
30) Cyclohexane	7.14	84	8237m	0.122	ppbv	
34) 2-Butanone	5.25	43	69460	0.512	ppbv	98
35) Carbon Tetrachloride	7.02	117	12272	0.069	ppbv #	64
36) Benzene	6.90	78	50917	0.306	ppbv #	80
44) 2,2,4-Trimethylpentane	7.89	57	50281m	0.167	ppbv	
52) Tetrachloroethene	11.26	164	7506m	0.112	ppbv	
53) Toluene	9.83	91	136413	0.747	ppbv	97
58) Ethyl Benzene	12.74	91	30249m	0.124	ppbv	
59) m/p-Xylene	13.00	91	97243m	0.451	ppbv	
60) o-Xylene	13.73	91	34975m	0.161	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	46377m	0.180	ppbv	

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

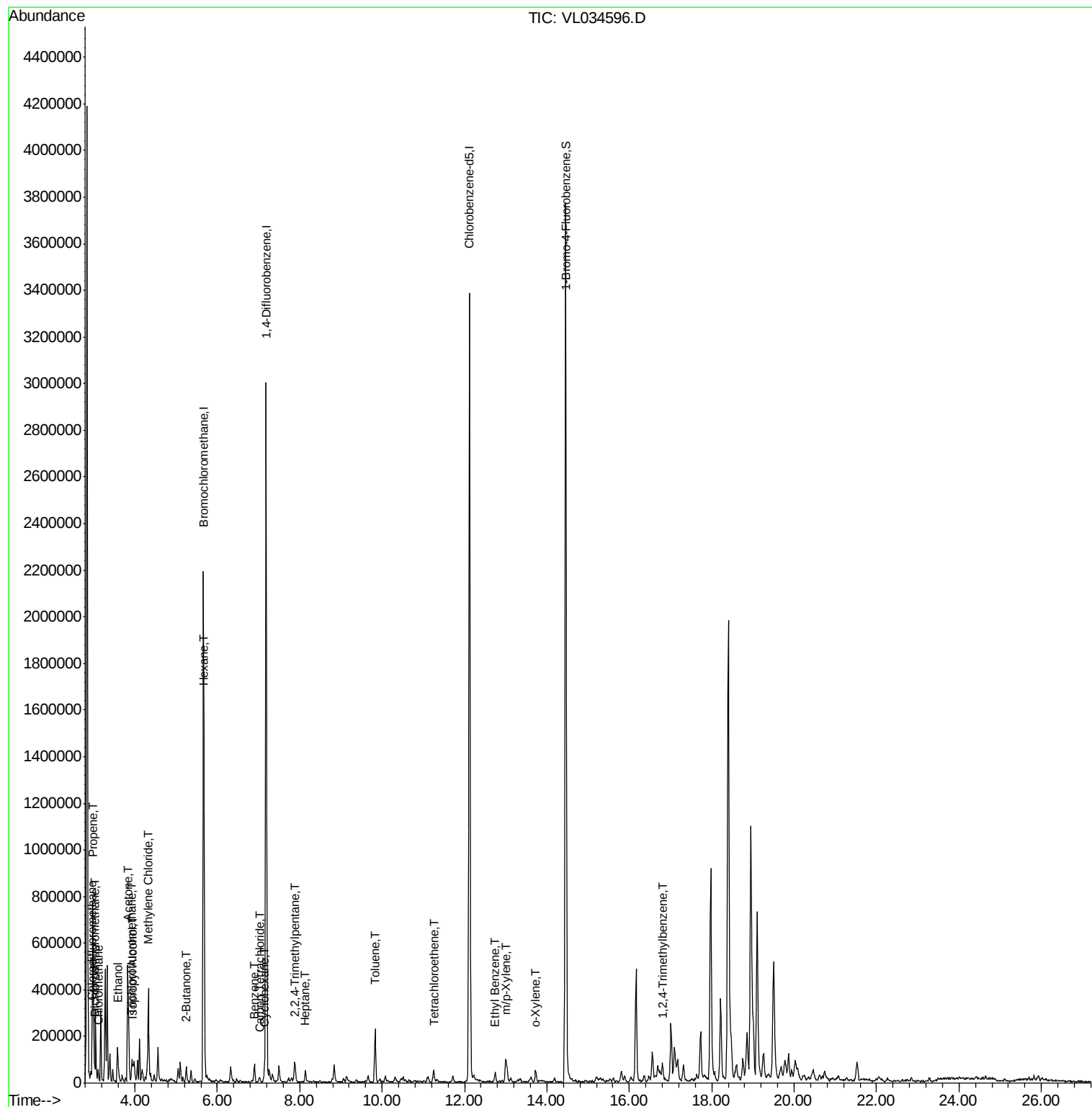
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL020420\
Data File : VL034596.D
Acq On : 5 Feb 2020 1:48
Operator : SY/AP
Sample : L1391-01
Misc : 400ml/MSVOA L
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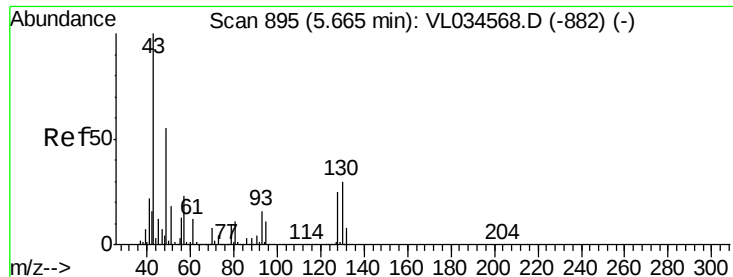
Instrument :
MSVOA_L
ClientSampleId :
SV-1

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Quant Time: Feb 05 14:29:24 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034596.D

Acq: 5 Feb 2020 1:48

Instrument :

MSVOA_L

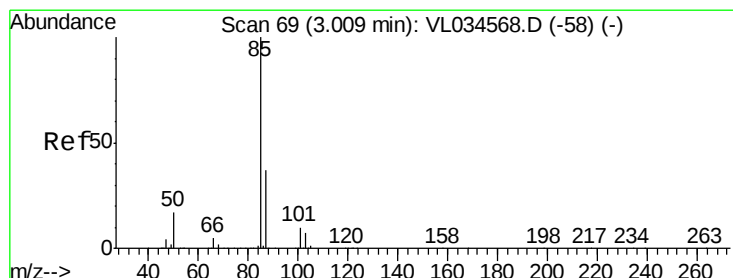
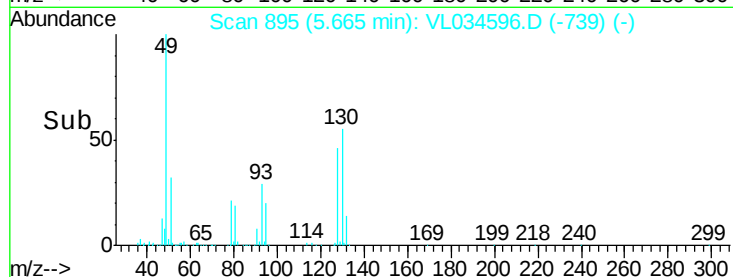
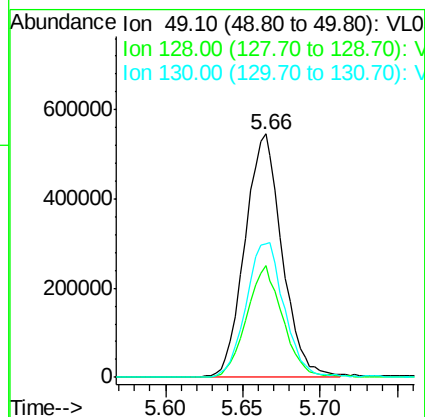
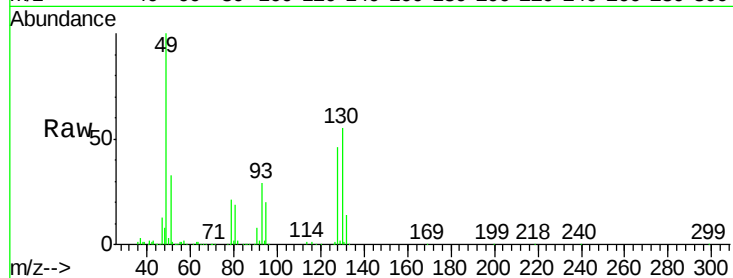
ClientSampled :

SV-1

Tot Ion:	49	Resp:	913045
Ion Ratio	Lower	Upper	
49	100		
128	45.1	22.7	68.1
130	57.1	28.6	85.8

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#2

Dichlorodifluoromethane

Concen: 0.229 ppbv

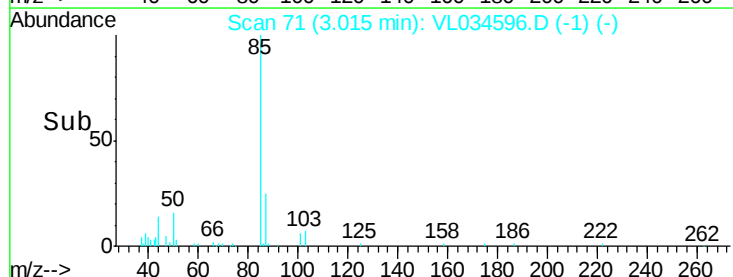
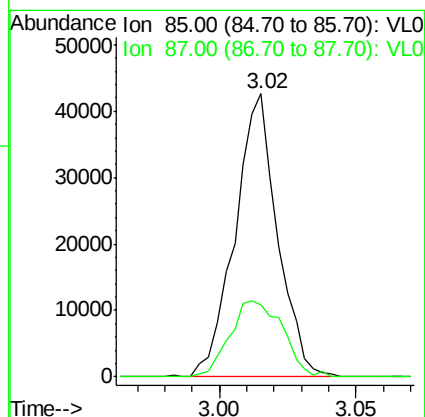
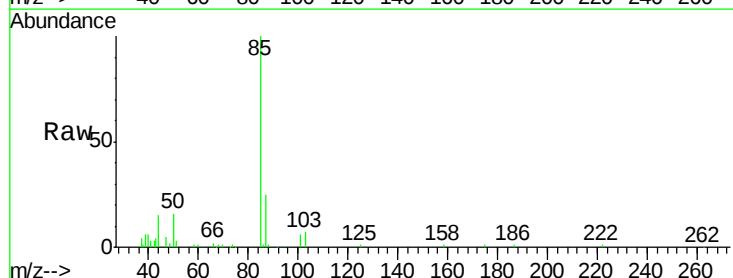
RT: 3.02 min Scan# 71

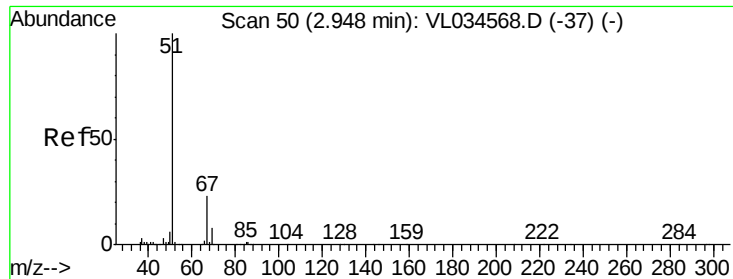
Delta R.T. 0.01 min

Lab File: VL034596.D

Acq: 5 Feb 2020 1:48

Tgt Ion:	85	Resp:	46044
Ion Ratio	Lower	Upper	
85	100		
87	25.4	29.5	44.3#





#3

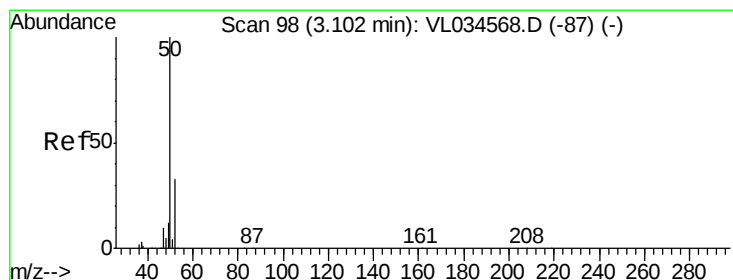
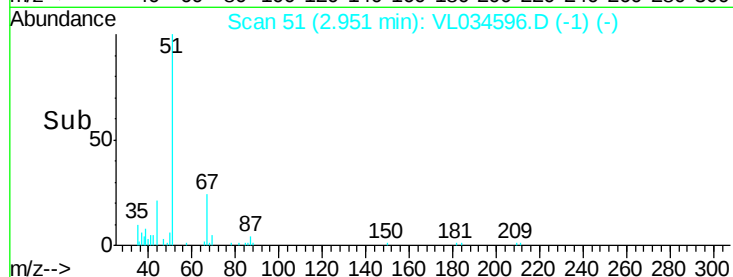
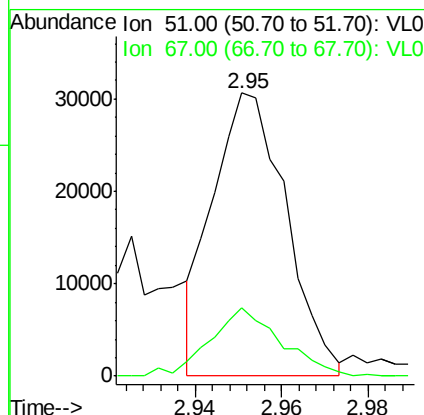
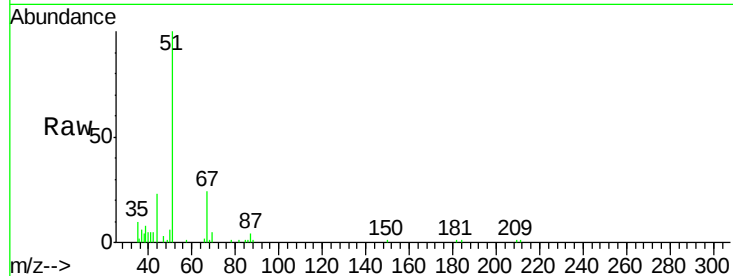
Chlorodifluoromethane
Concen: 0.329 ppbv
RT: 2.95 min Scan# 51
Delta R.T. 0.00 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	23.3	17.8	26.8

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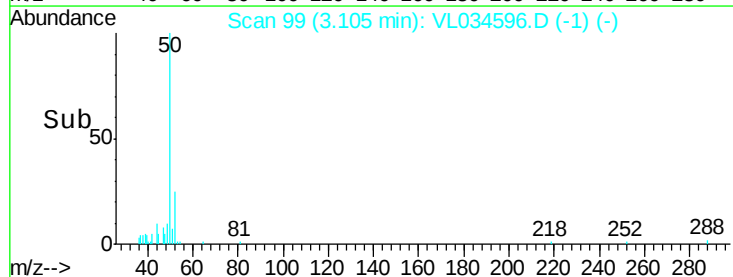
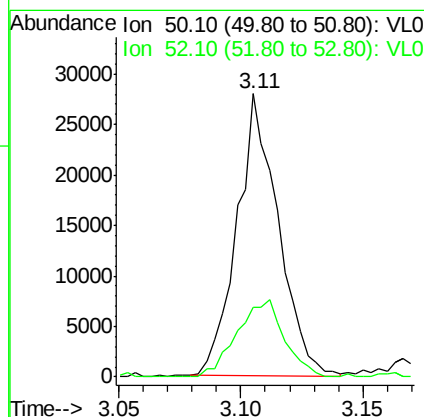
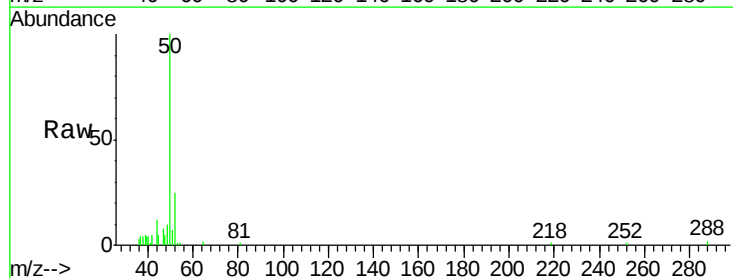
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#4

Chloromethane
Concen: 0.485 ppbv
RT: 3.11 min Scan# 99
Delta R.T. 0.00 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Tgt Ion	Ratio	Lower	Upper
50	100		
52	23.2	26.6	39.8#





#9

Propene

Concen: 6.452 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034596.D

Acq: 5 Feb 2020 1:48

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tot Ion: 41 Resp: 277151

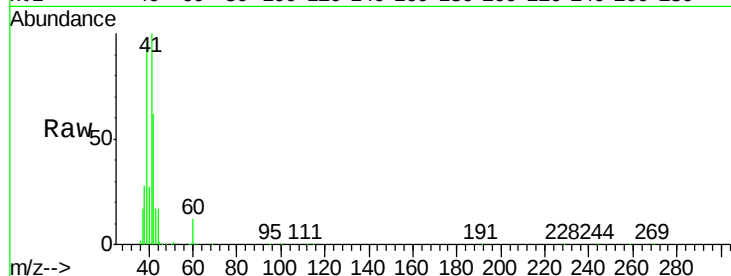
Ion Ratio Lower Upper

41 100

42 62.6 57.0 85.4

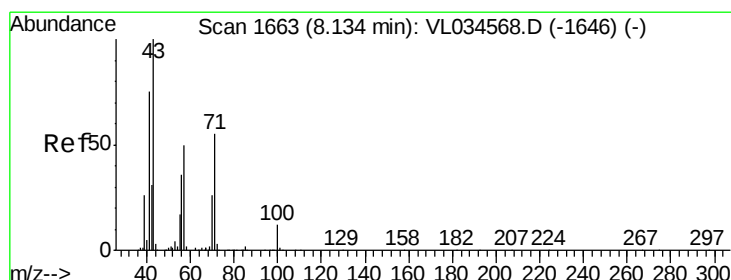
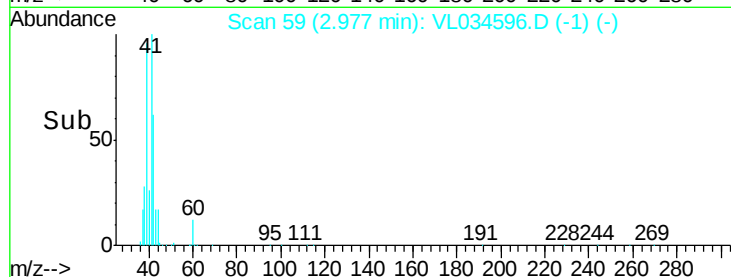
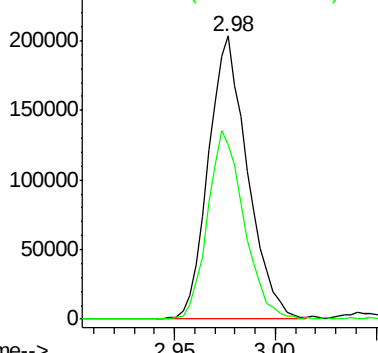
Manual Integrations
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.126 ppbv m

RT: 8.14 min Scan# 1665

Delta R.T. 0.01 min

Lab File: VL034596.D

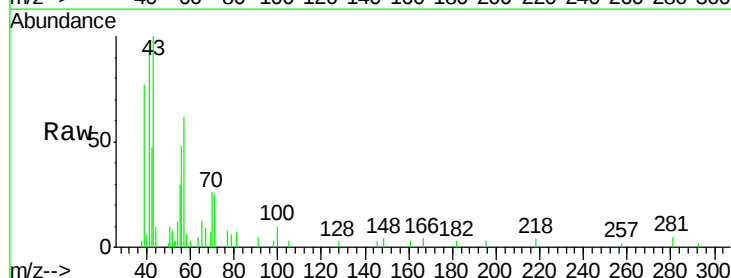
Acq: 5 Feb 2020 1:48

Tgt Ion: 43 Resp: 13619

Ion Ratio Lower Upper

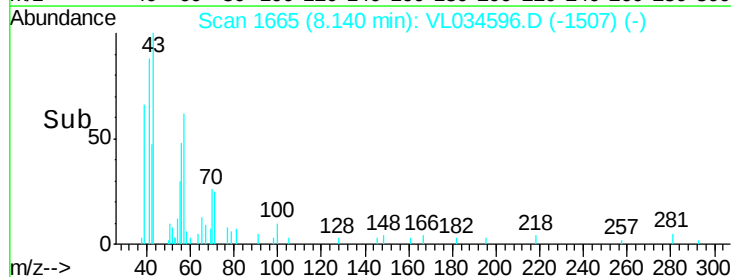
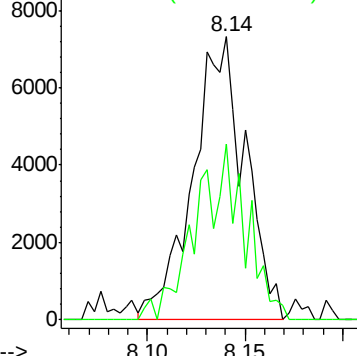
43 100

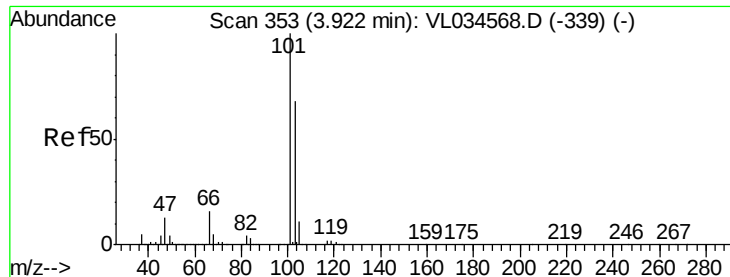
57 0.0 41.2 61.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





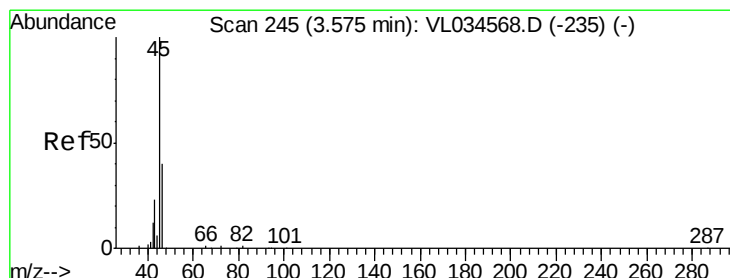
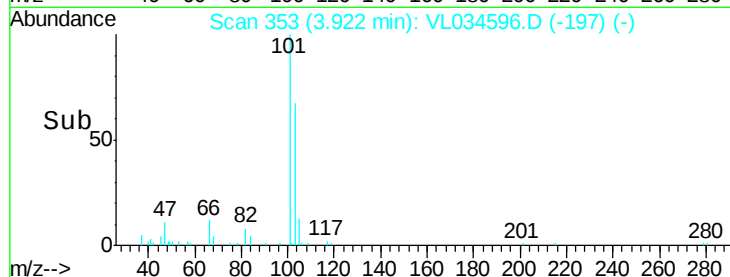
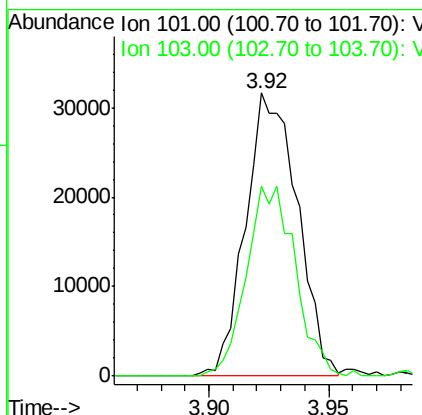
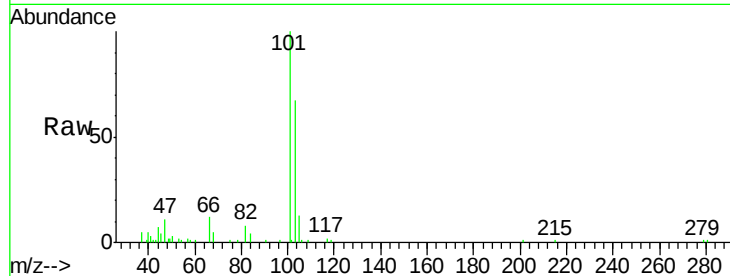
#11
 Trichlorofluoromethane
 Concen: 0.260 ppbv m
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034596.D
 Acq: 5 Feb 2020 1:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Tot Ion: 101 Resp: 47547
 Ion Ratio Lower Upper
 101 100
 103 67.0 54.4 81.6

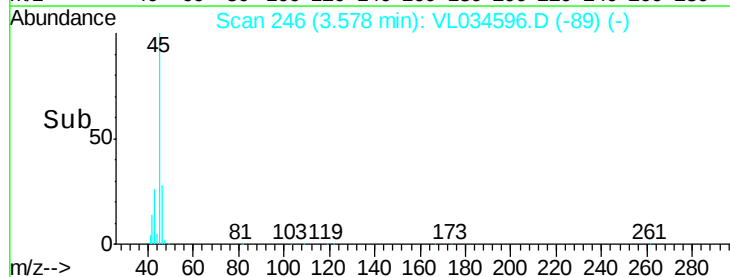
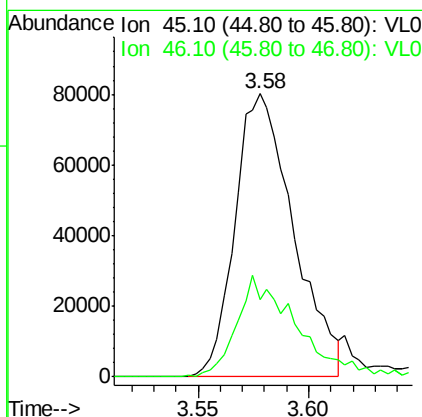
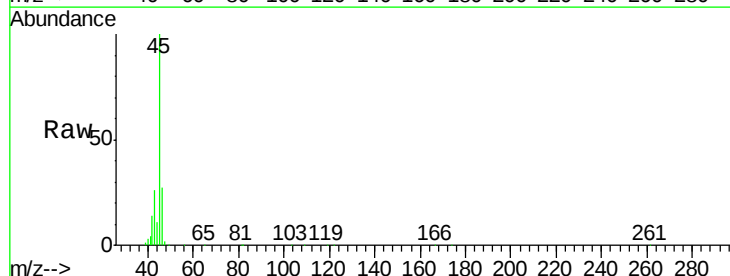
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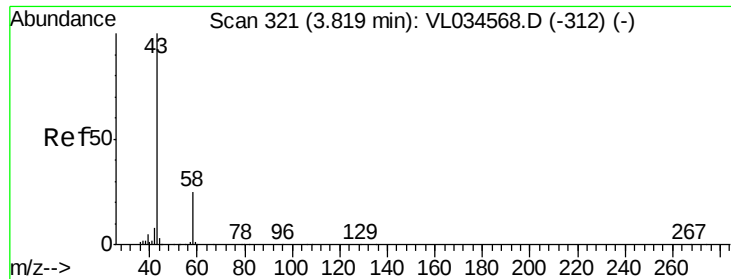
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#13
 Ethanol
 Concen: 12.830 ppbv
 RT: 3.58 min Scan# 246
 Delta R.T. 0.00 min
 Lab File: VL034596.D
 Acq: 5 Feb 2020 1:48

Tgt Ion: 45 Resp: 147620
 Ion Ratio Lower Upper
 45 100
 46 36.8 14.8 59.2





#15

Acetone

Concen: 3.993 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034596.D

Acq: 5 Feb 2020 1:48

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 43 Resp: 535792

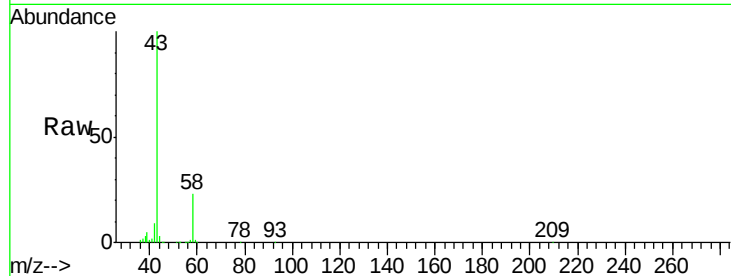
Ion Ratio Lower Upper

43 100

58 22.1 20.3 30.5

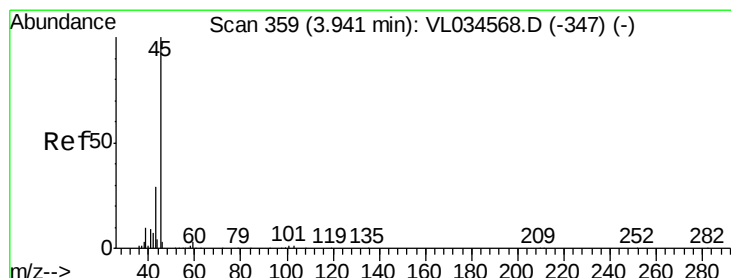
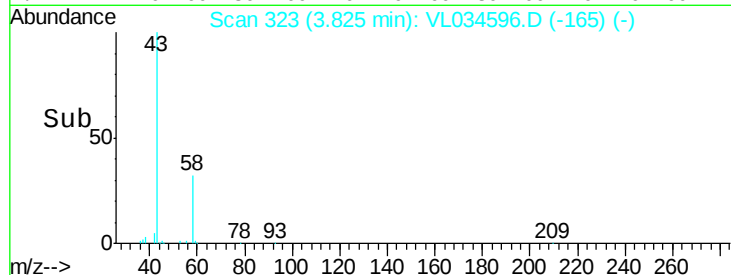
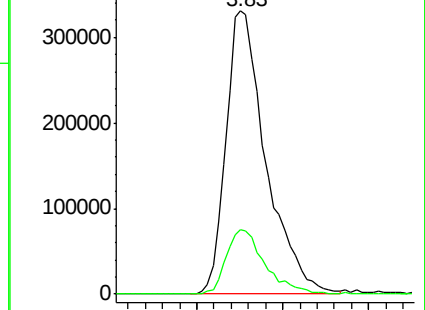
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.849 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL034596.D

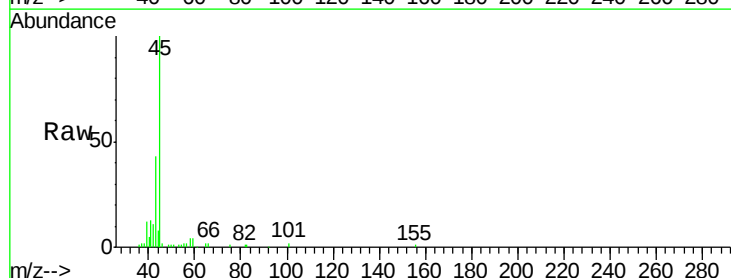
Acq: 5 Feb 2020 1:48

Tgt Ion: 45 Resp: 66460

Ion Ratio Lower Upper

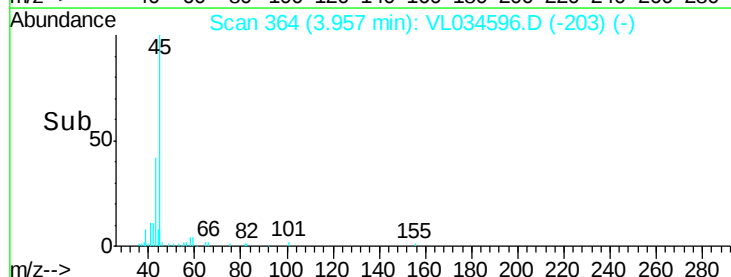
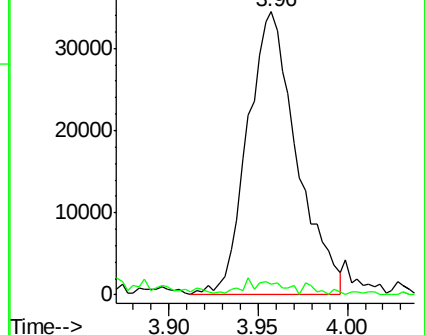
45 100

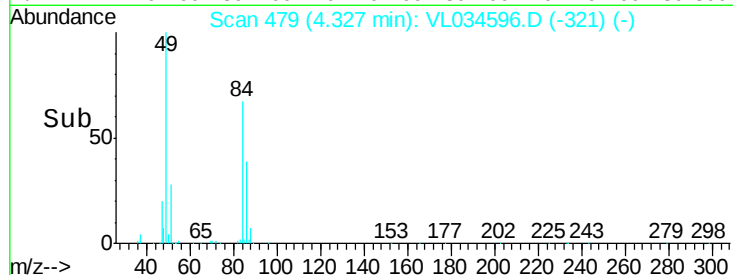
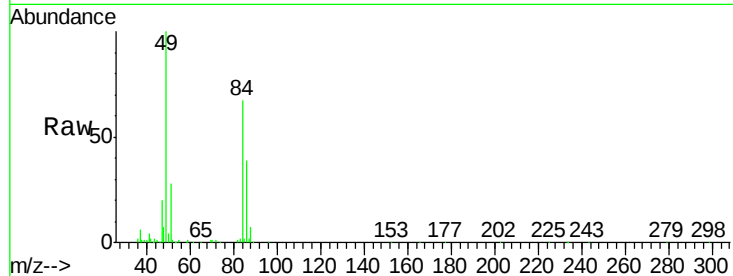
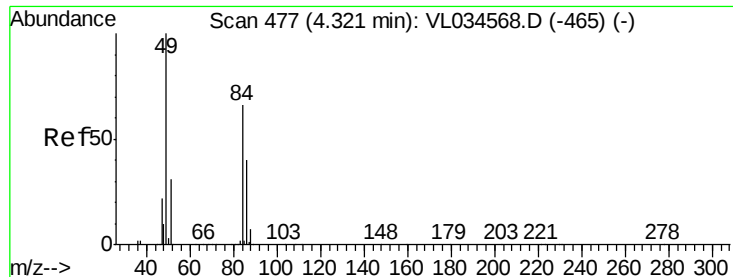
58 181.7 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





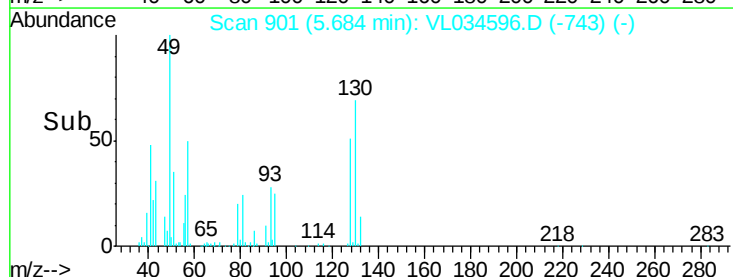
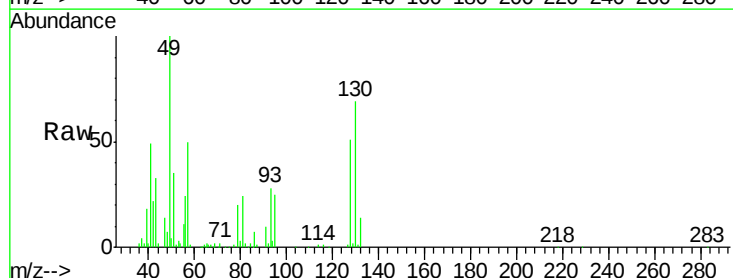
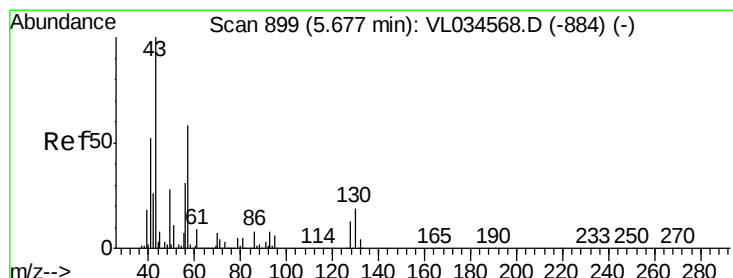
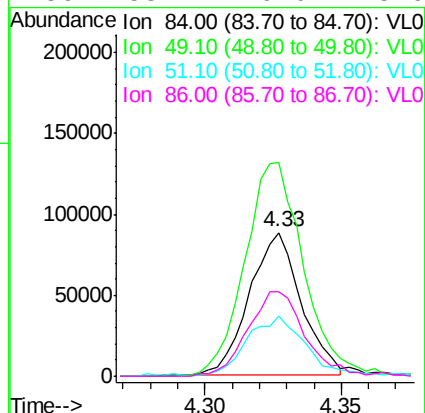
#20
Methvlene Chloride
Concen: 2.284 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.01 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Tot Ion:	84	Resp:	116716
Ion	Ratio	Lower	Upper
84	100		
49	149.0	122.4	183.6
51	41.6	38.6	57.8
86	58.7	49.0	73.6

Instrument :
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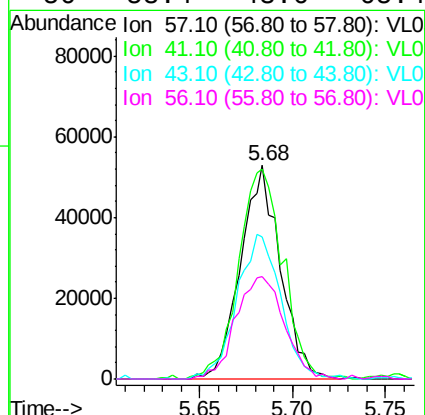
Manual Integrations
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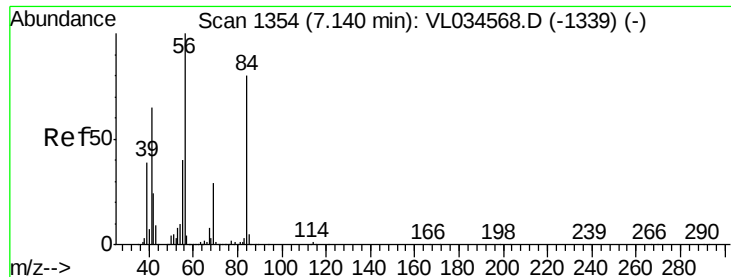
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#26
Hexane
Concen: 0.865 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.01 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Tgt Ion:	57	Resp:	78740
Ion	Ratio	Lower	Upper
57	100		
41	109.8	76.2	114.2
43	75.1	189.9	284.9#
56	58.4	43.6	65.4





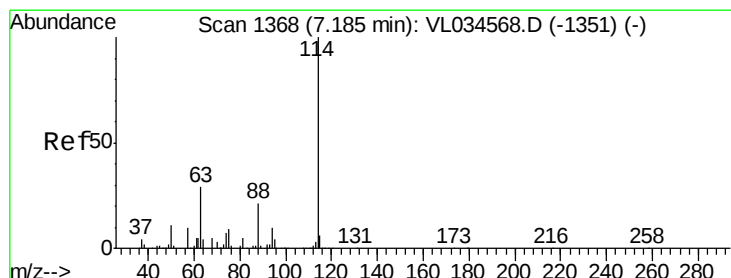
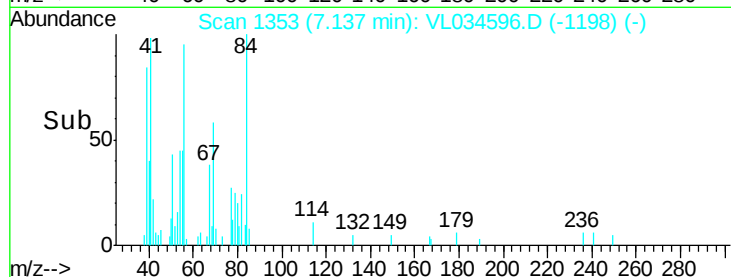
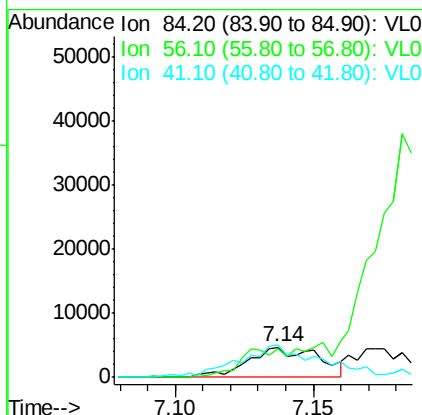
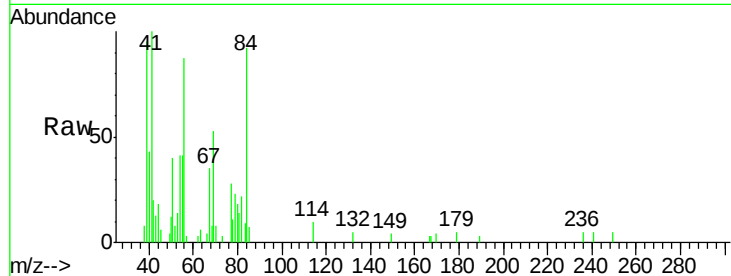
#30
Cyclohexane
Concen: 0.122 ppbv m
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.5	165.7#
41	135.9	71.9	107.9#

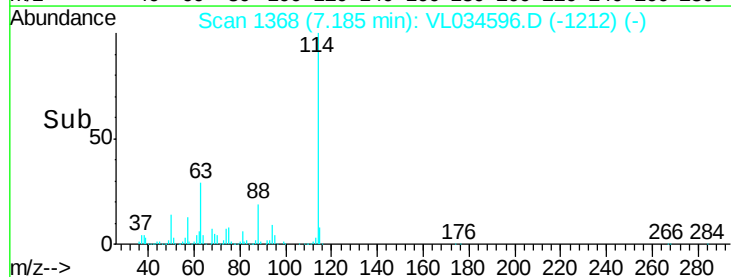
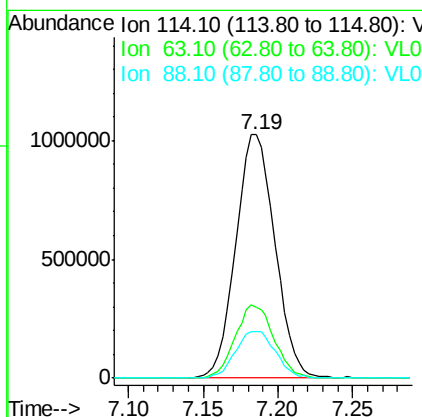
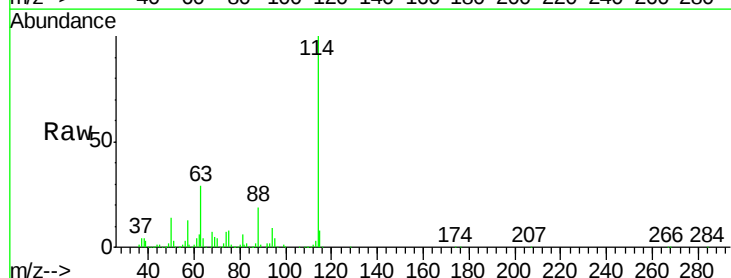
Manual Integrations
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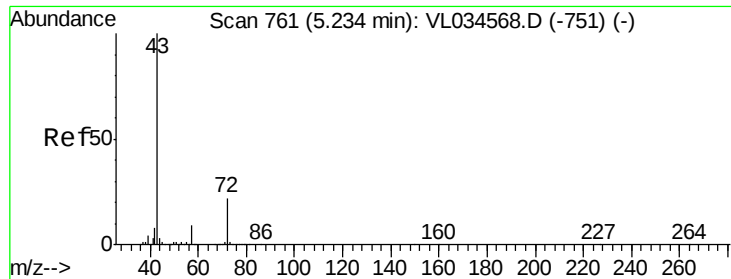
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.8	24.1	36.1
88	19.7	15.9	23.9





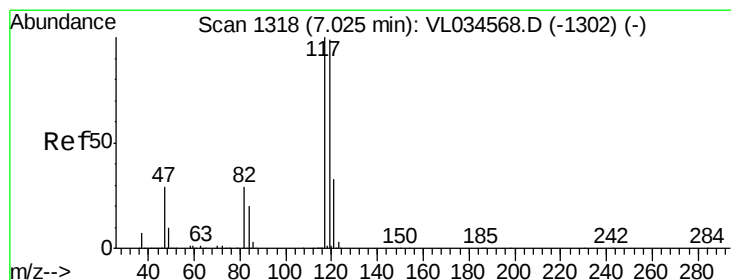
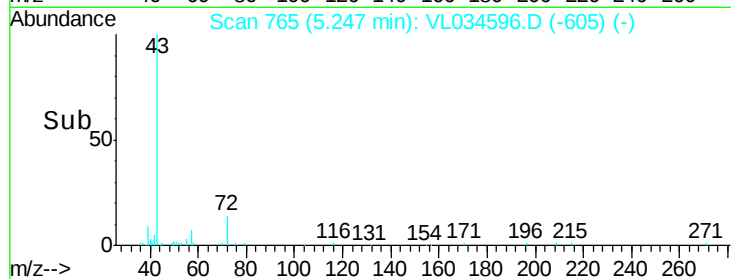
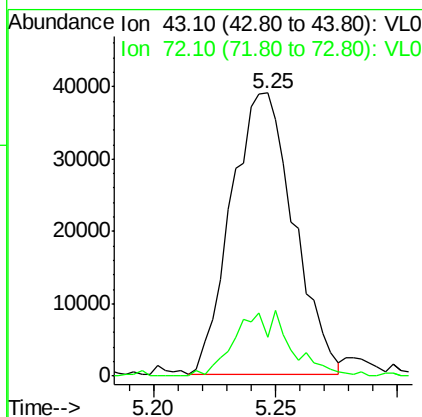
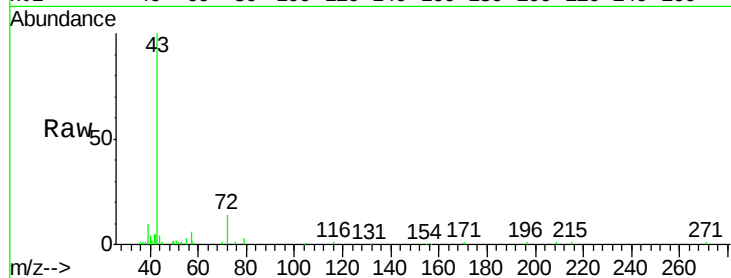
#34
2-Butanone
Concen: 0.512 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.01 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tot Ion	43	Resp	69460
Ion Ratio	100	Lower	Upper
72	20.6	17.2	25.8

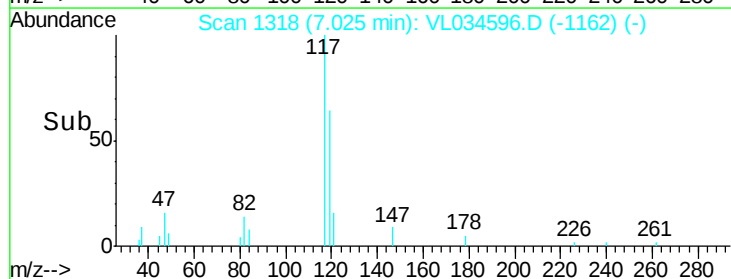
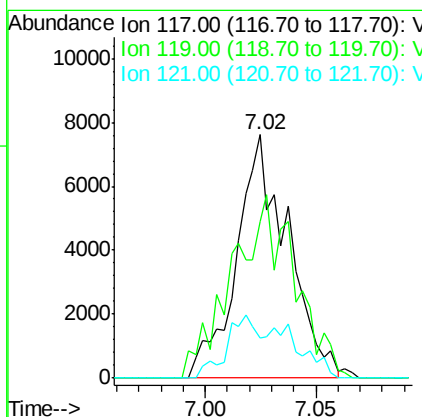
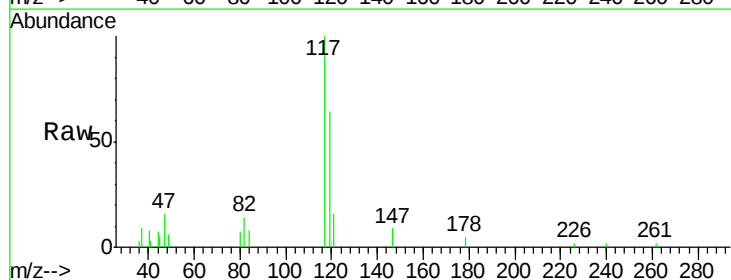
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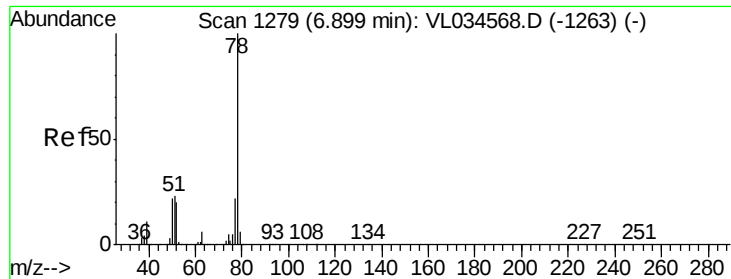
MMDadoda
2/5/2020 2:51:20 PM



#35
Carbon Tetrachloride
Concen: 0.069 ppbv
RT: 7.02 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Tgt Ion	117	Resp	12272
Ion Ratio	100	Lower	Upper
119	61.1	79.5	119.3#
121	16.5	26.2	39.2#





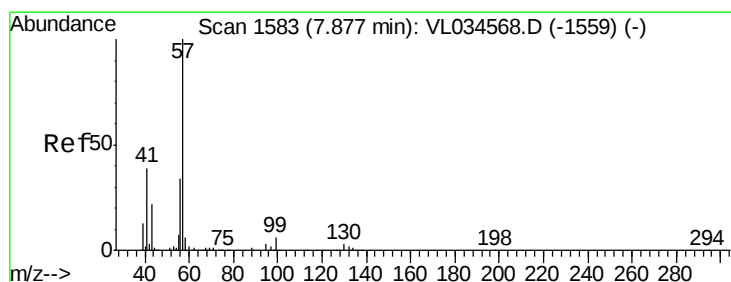
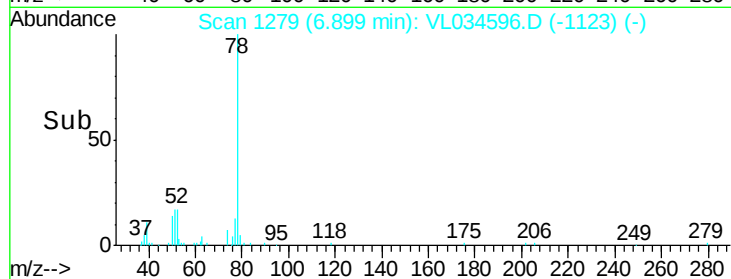
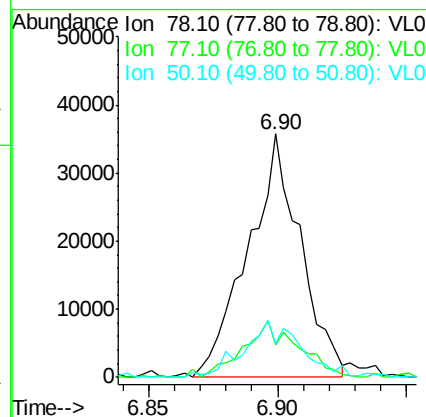
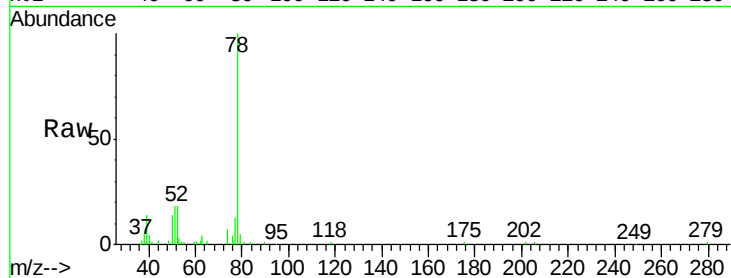
#36
Benzene
Concen: 0.306 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. -0.00 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tot Ion	Ion	Ratio	Lower	Upper
78	100			
77	12.2	17.3	25.9#	
50	12.4	17.4	26.2#	

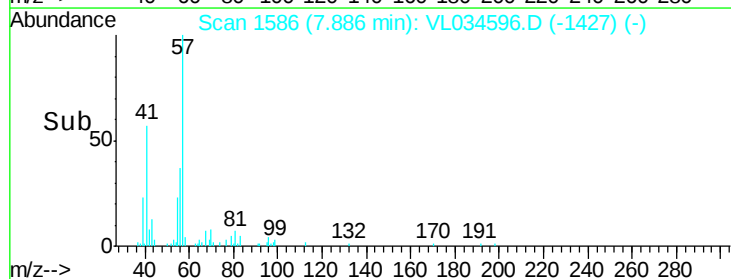
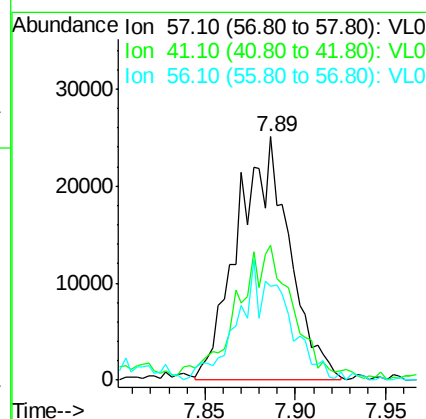
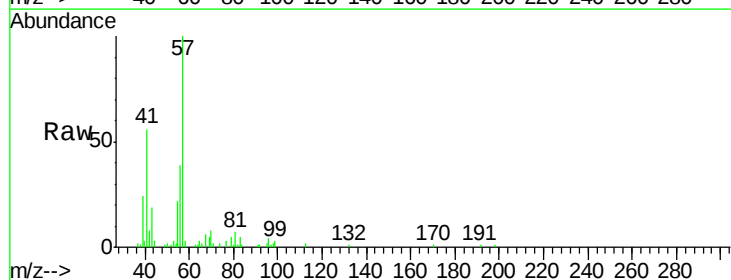
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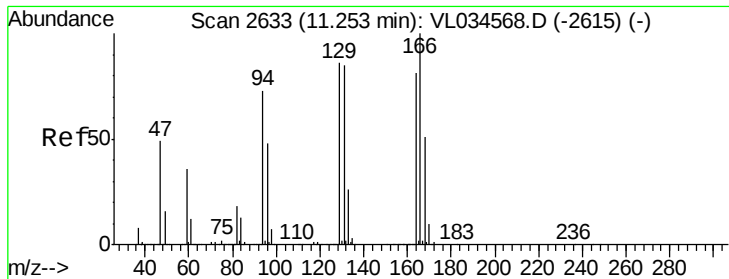
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.167 ppbv m
RT: 7.89 min Scan# 1586
Delta R.T. 0.01 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	0.0	28.9	43.3#	
56	46.6	25.5	38.3#	





#52

Tetrachloroethene

Concen: 0.112 ppbv m

RT: 11.26 min Scan# 2636

Delta R.T. 0.01 min

Lab File: VL034596.D

Acq: 5 Feb 2020 1:48

Instrument :

MSVOA_L

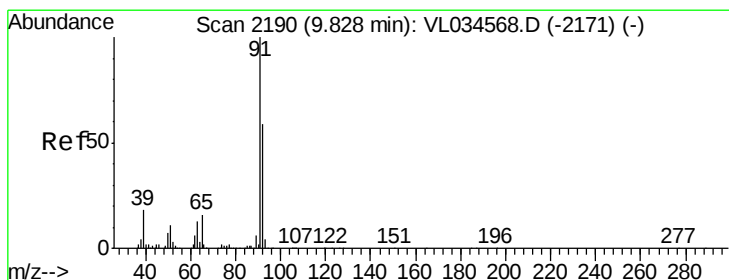
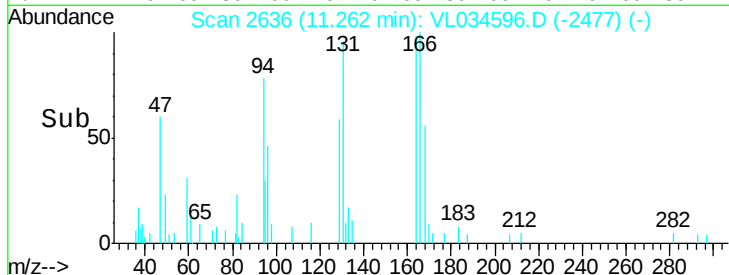
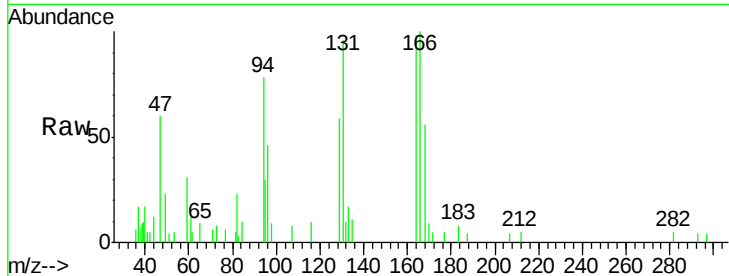
ClientSampled :

SV-1

Tot Ion:	164	Resp:	7506
Ion	Ratio	Lower	Upper
164	100		
166	101.7	99.0	148.4
129	60.4	85.3	127.9#
131	97.3	84.2	126.2

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#53

Toluene

Concen: 0.747 ppbv

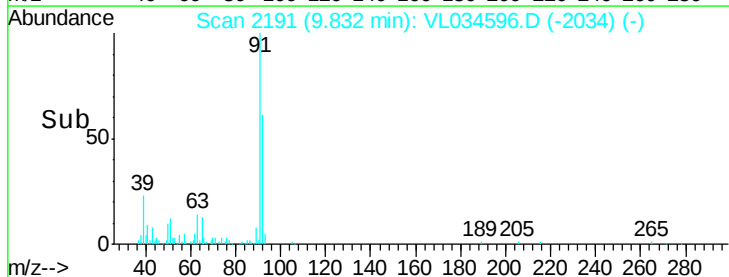
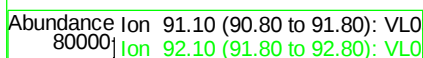
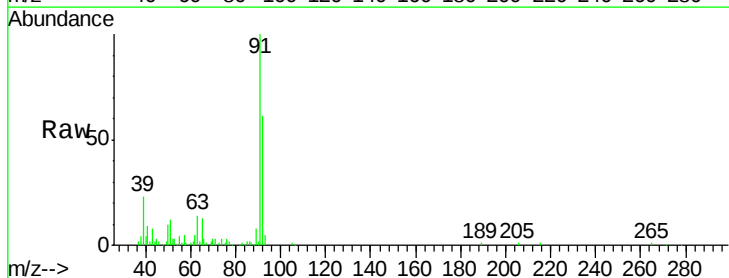
RT: 9.83 min Scan# 2191

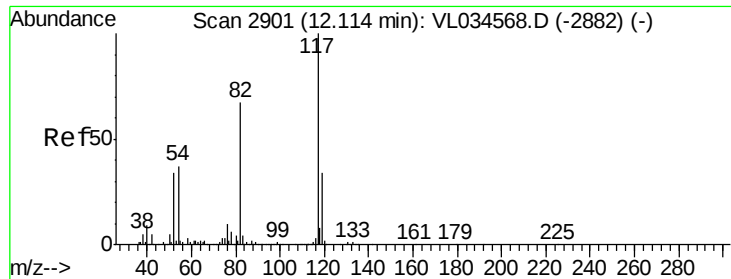
Delta R.T. 0.00 min

Lab File: VL034596.D

Acq: 5 Feb 2020 1:48

Tgt Ion:	91	Resp:	136413
Ion	Ratio	Lower	Upper
91	100		
92	58.0	48.2	72.2





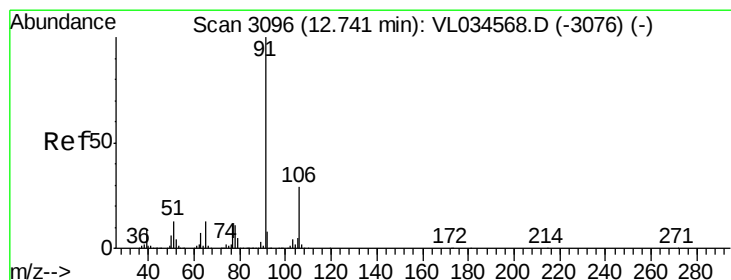
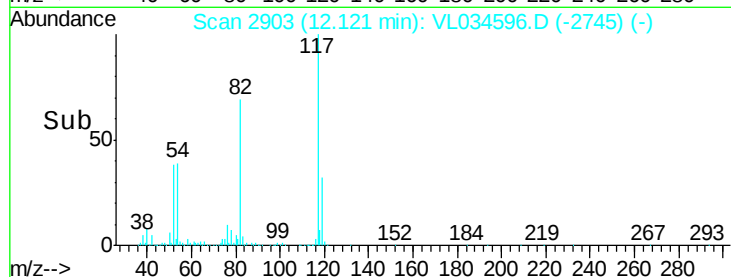
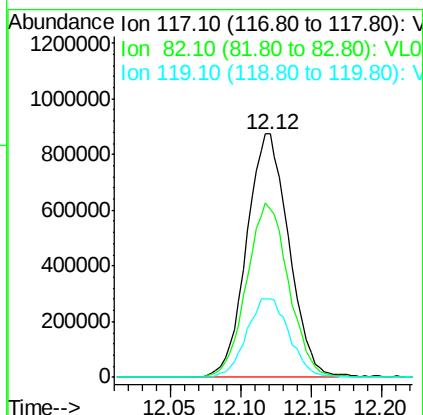
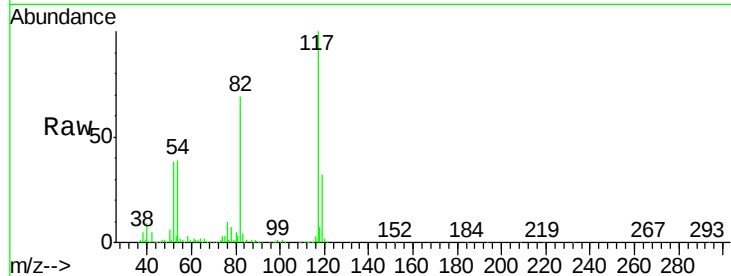
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion:117 Resp: 1824772
Ion Ratio Lower Upper
117 100
82 71.9 54.2 81.4
119 32.7 26.1 39.1

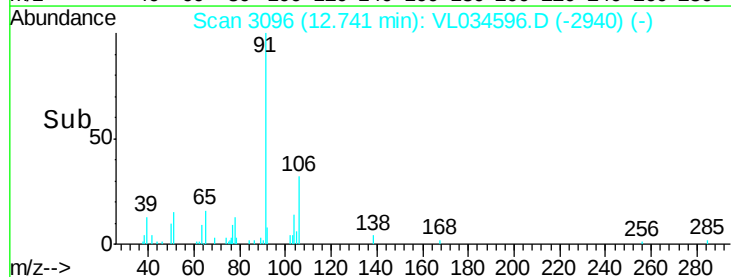
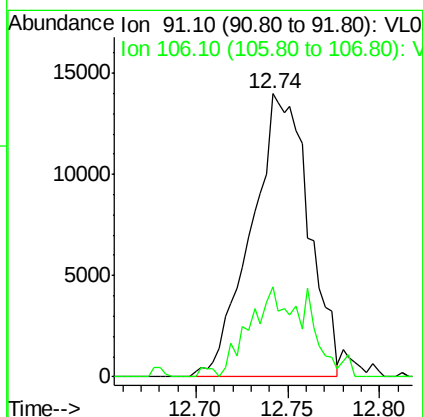
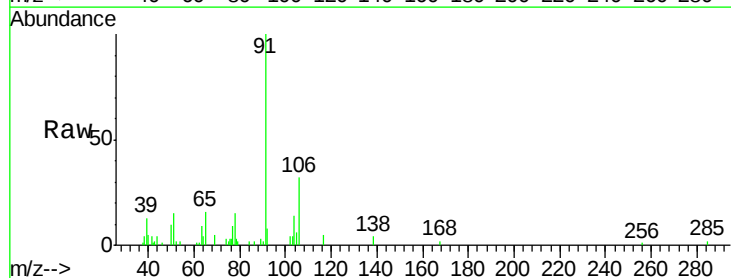
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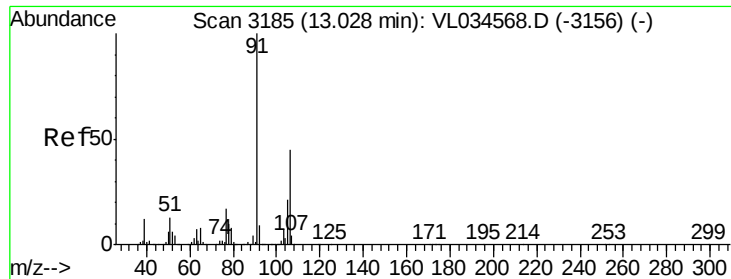
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#58
Ethyl Benzene
Concen: 0.124 ppbv m
RT: 12.74 min Scan# 3096
Delta R.T. -0.00 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Tgt Ion: 91 Resp: 30249
Ion Ratio Lower Upper
91 100
106 32.0 23.3 34.9





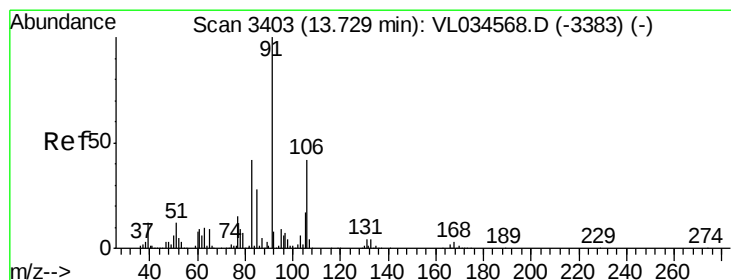
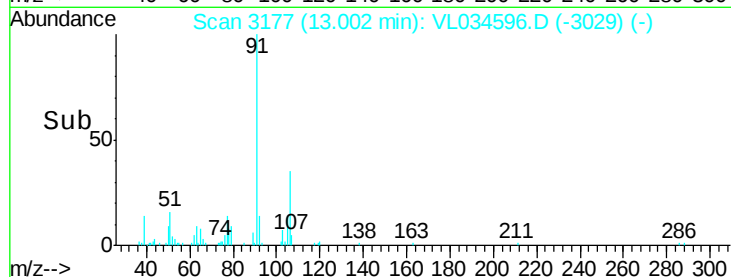
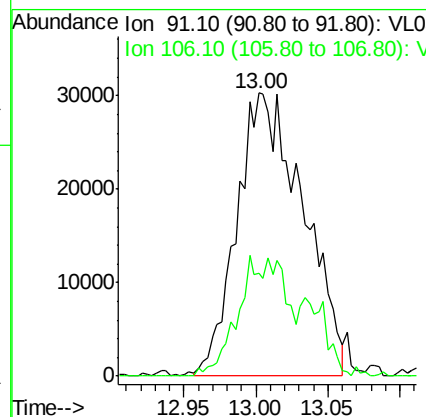
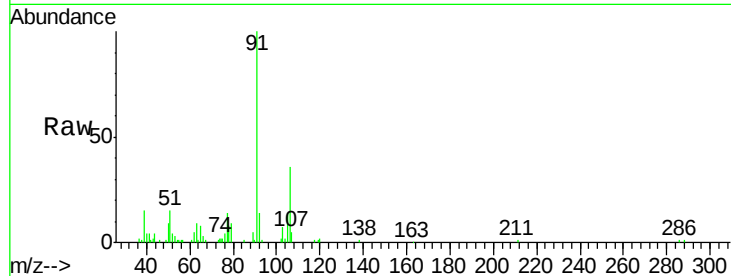
#59
m/p-Xylene
Concen: 0.451 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.03 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion: 91 Resp: 97243
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

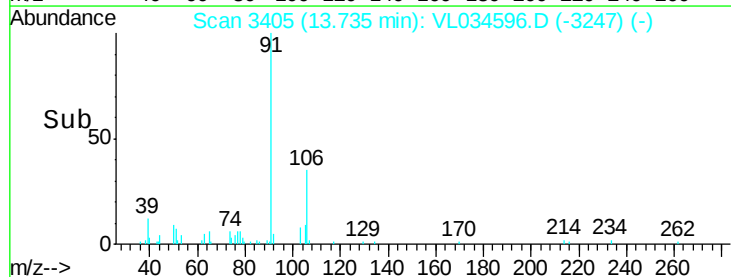
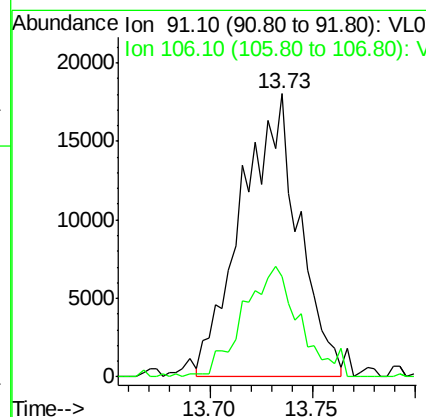
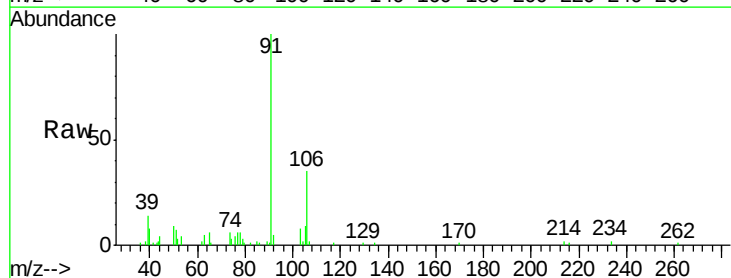
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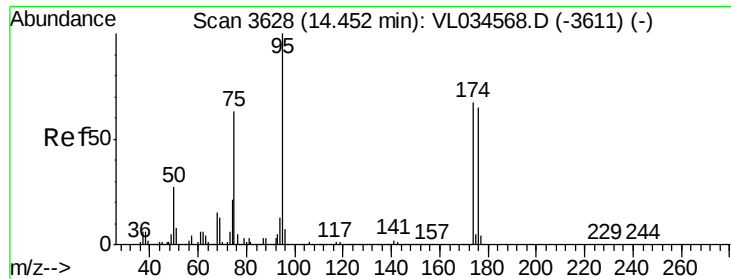
MMDadoda
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#60
o-Xylene
Concen: 0.161 ppbv m
RT: 13.73 min Scan# 3405
Delta R.T. 0.01 min
Lab File: VL034596.D
Acq: 5 Feb 2020 1:48

Tgt Ion: 91 Resp: 34975
Ion Ratio Lower Upper
91 100
106 38.5 21.6 65.0





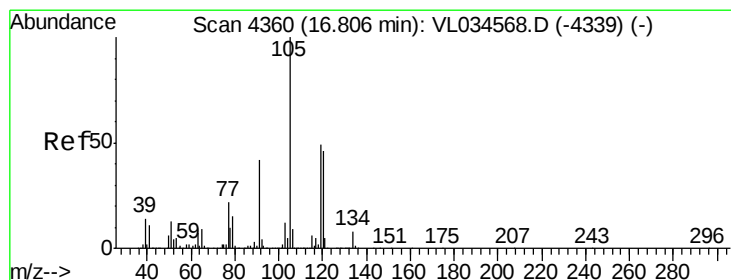
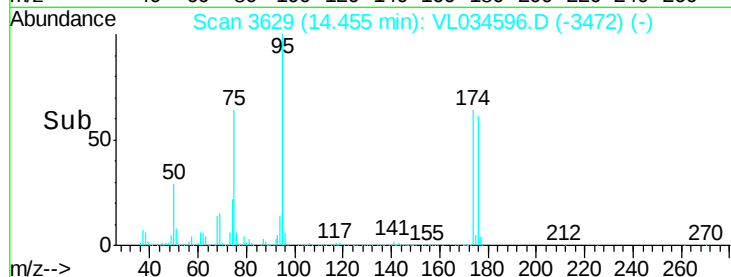
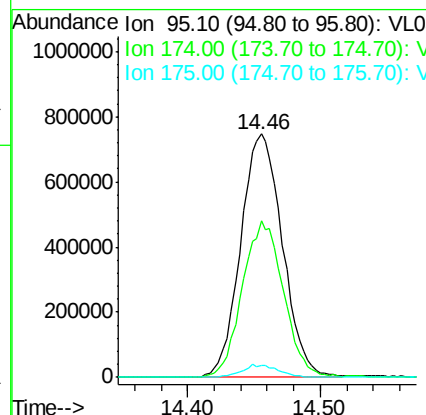
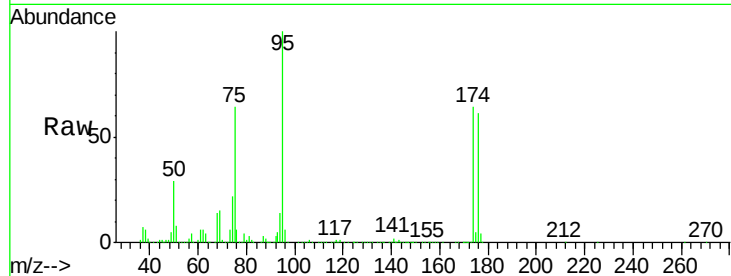
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.598 ppbv
 RT: 14.46 min Scan# 3629
 Delta R.T. 0.00 min
 Lab File: VL034596.D
 Acq: 5 Feb 2020 1:48

Instrument :
 MSVOA_L
 ClientSampled :
 SV-1

Tot Ion: 95 Resp: 1634379
 Ion Ratio Lower Upper
 95 100
 174 63.6 52.3 78.5
 175 4.7 3.8 5.6

Manual Integrations
 APPROVED

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 2/5/2020 2:51:20 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.180 ppbv m
 RT: 16.80 min Scan# 4358
 Delta R.T. -0.01 min
 Lab File: VL034596.D
 Acq: 5 Feb 2020 1:48

Tgt Ion: 105 Resp: 46377
 Ion Ratio Lower Upper
 105 100
 120 32.8 37.1 55.7#
 91 22.7 34.3 51.5#
 77 17.6 17.5 26.3

