

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\
 Data File : VL034476.D
 Acq On : 9 Dec 2019 22:47
 Operator : SY/AP
 Sample : K6195-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-TE

Manual Integrations
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Quant Time: Dec 10 04:49:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	792824	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1584151	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1592050	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1366510	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	35564	0.248	ppbv	99
3) Chlorodifluoromethane	2.96	51	93344m	0.944	ppbv	
4) Chloromethane	3.11	50	26214	0.449	ppbv #	86
9) Propene	2.99	41	26576	0.605	ppbv #	78
11) Trichlorofluoromethane	3.93	101	35914m	0.252	ppbv	
13) Ethanol	3.58	45	307015	25.096	ppbv	97
15) Acetone	3.84	43	340630	3.000	ppbv	99
19) Isopropyl Alcohol	3.96	45	134052	1.842	ppbv #	94
20) Methylene Chloride	4.34	84	27836	0.691	ppbv #	87
26) Hexane	5.69	57	46218	0.531	ppbv #	41
34) 2-Butanone	5.25	43	19232	0.147	ppbv	94
36) Benzene	6.91	78	18140	0.115	ppbv #	84
38) Trichloroethene	7.86	130	2535m	0.039	ppbv	
50) 4-Methyl-2-Pentanone	8.80	43	25168m	0.133	ppbv	
52) Tetrachloroethene	11.28	164	5806970	84.751	ppbv	88
53) Toluene	9.84	91	145542	0.809	ppbv	94
59) m/p-Xylene	13.01	91	33809m	0.158	ppbv	

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

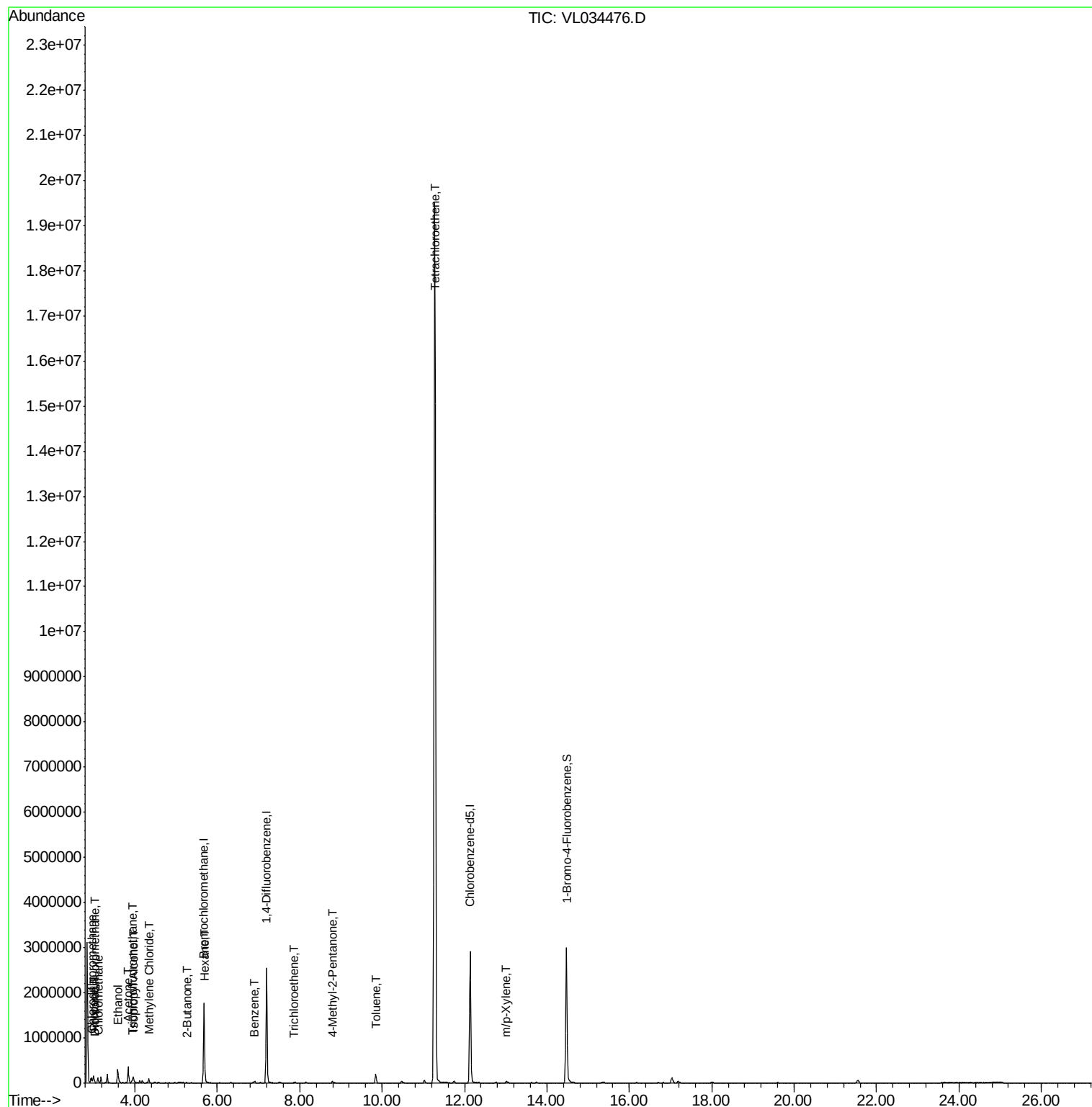
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120919\
Data File : VL034476.D
Acq On : 9 Dec 2019 22:47
Operator : SY/AP
Sample : K6195-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

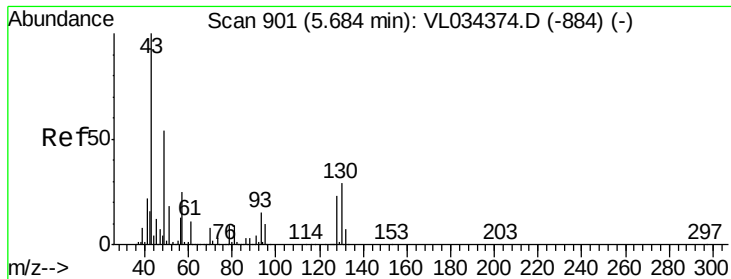
Instrument :
MSVOA_L
ClientSampleId :
1A-TE

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Quant Time: Dec 10 04:49:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

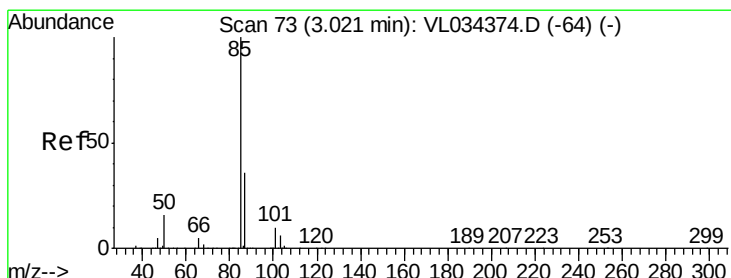
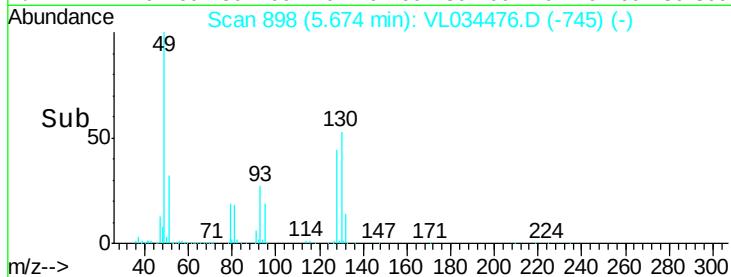
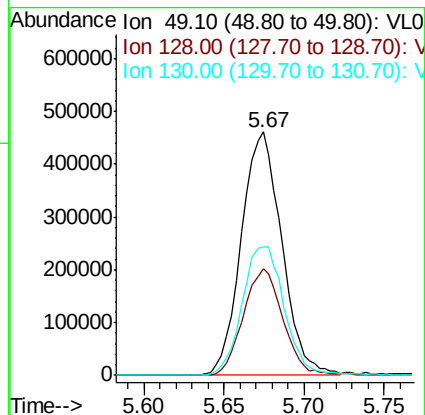
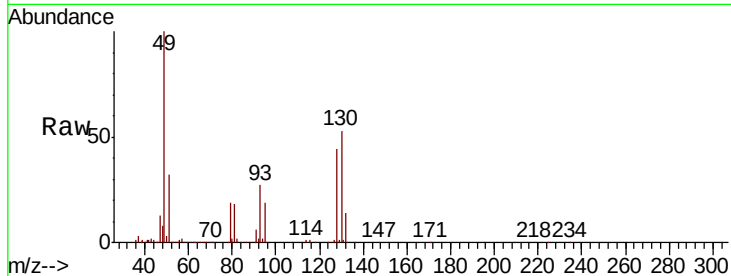
ClientSampleId :

1A-TE

Tot Ion:	49	Resp:	792824
Ion	Ratio	Lower	Upper
49	100		
128	43.5	21.8	65.3
130	55.6	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.248 ppbv

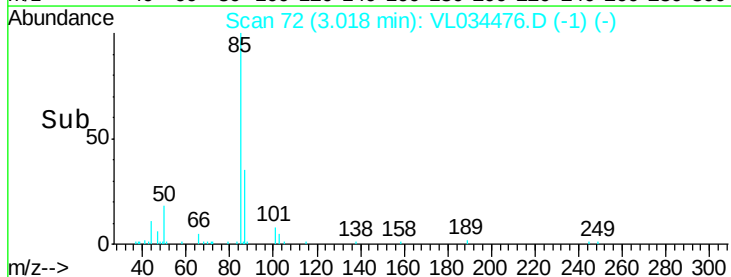
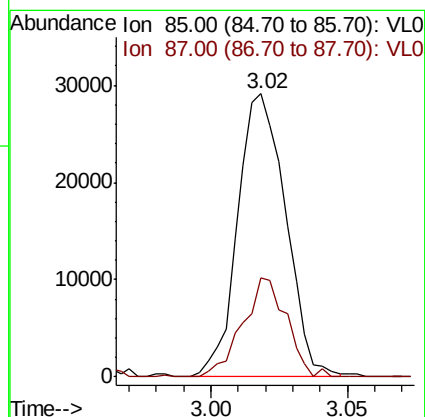
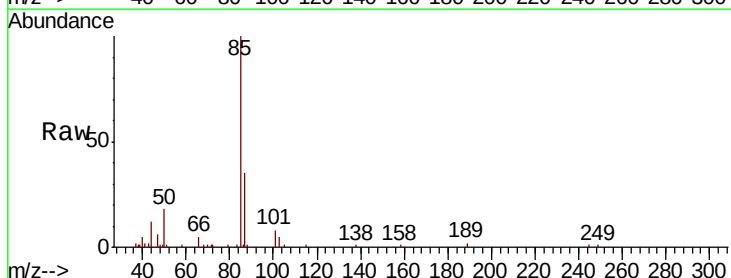
RT: 3.02 min Scan# 72

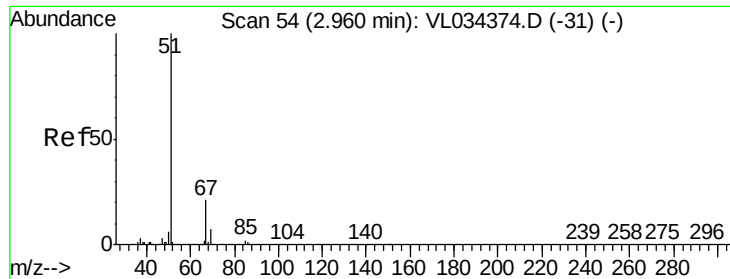
Delta R.T. -0.00 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Tgt Ion:	85	Resp:	35564
Ion	Ratio	Lower	Upper
85	100		
87	35.0	28.5	42.7





#3

Chlorodifluoromethane

Concen: 0.944 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

ClientSampled :

1A-TE

Tot Ion: 51 Resp: 93344

Ion Ratio Lower Upper

51 100

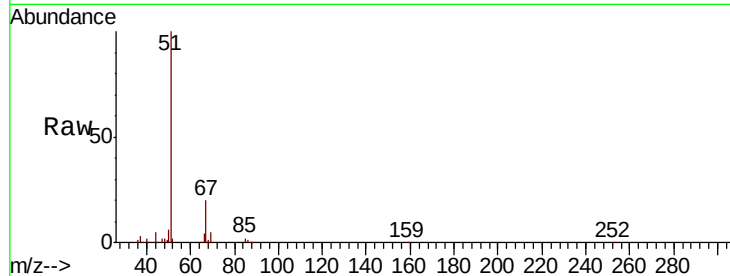
67 22.0 16.2 24.2

Manual Integrations

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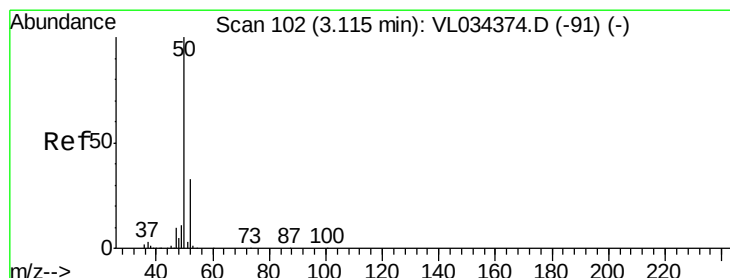
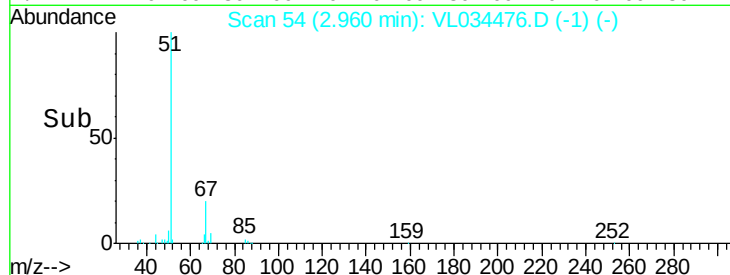
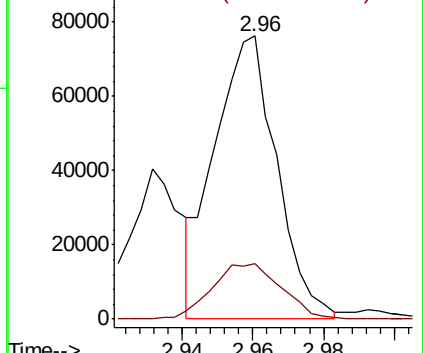
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.449 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.00 min

Lab File: VL034476.D

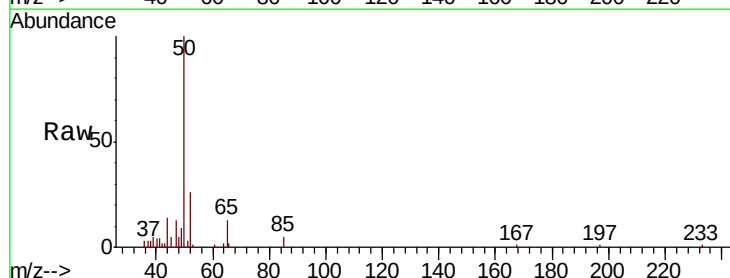
Acq: 9 Dec 2019 22:47

Tgt Ion: 50 Resp: 26214

Ion Ratio Lower Upper

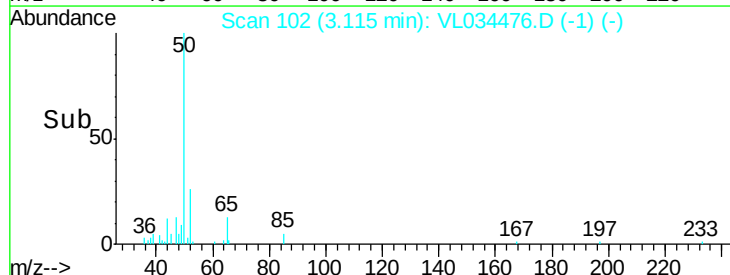
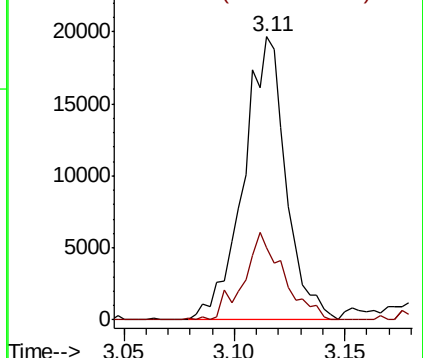
50 100

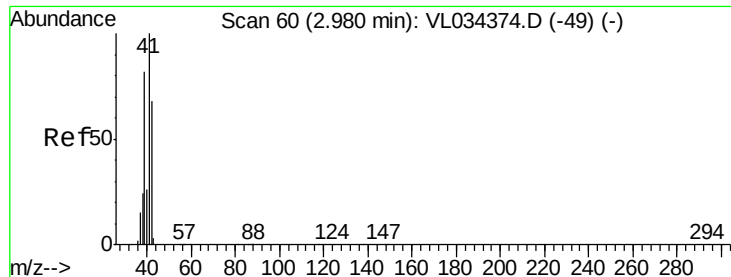
52 25.6 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





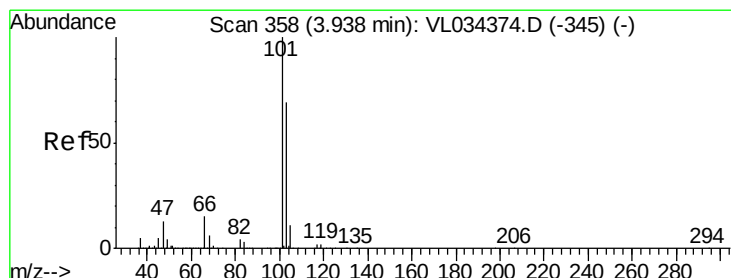
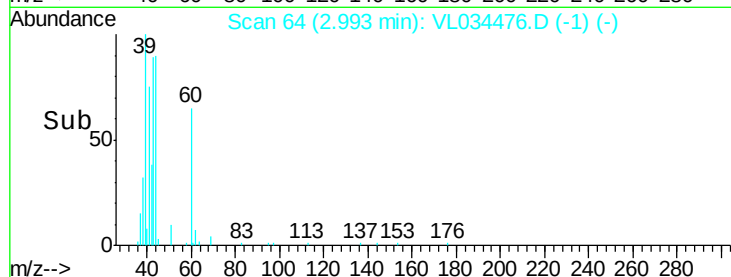
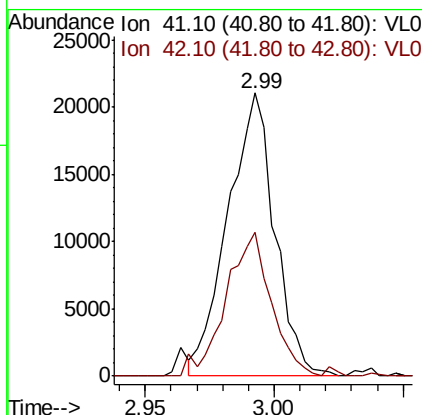
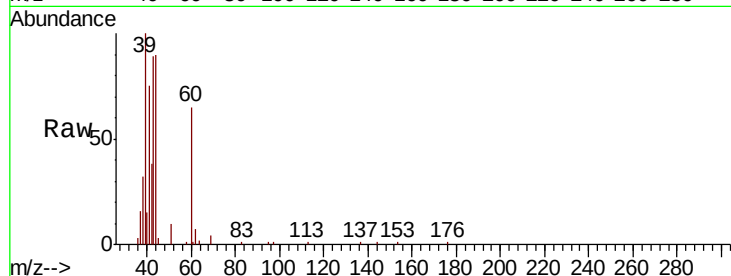
#9
Propene
Concen: 0.605 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Instrument :
MSVOA_L
ClientSampleId :
1A-TE

Tot Ion: 41 Resp: 26576
Ion Ratio Lower Upper
41 100
42 50.1 54.6 82.0#

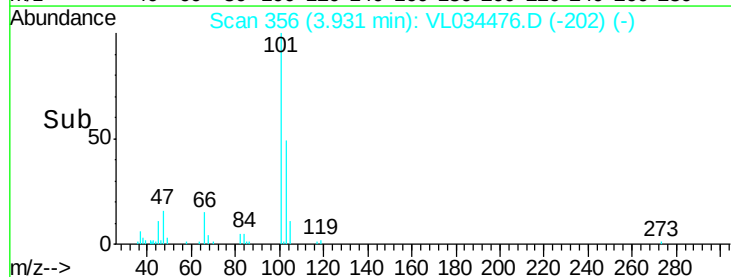
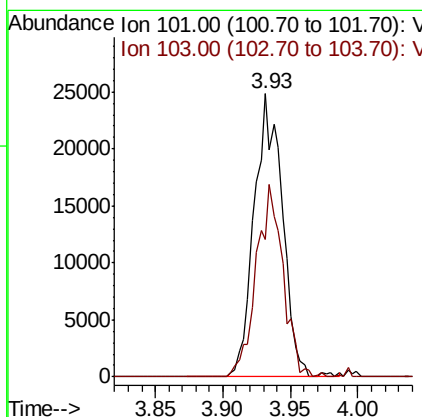
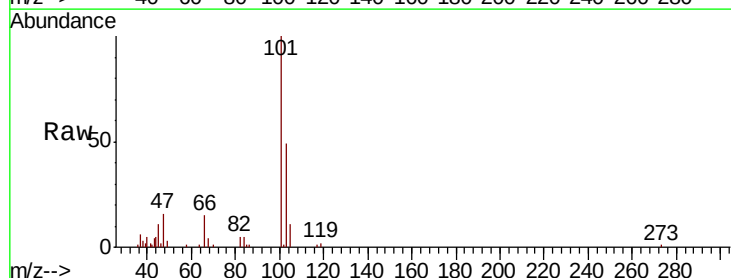
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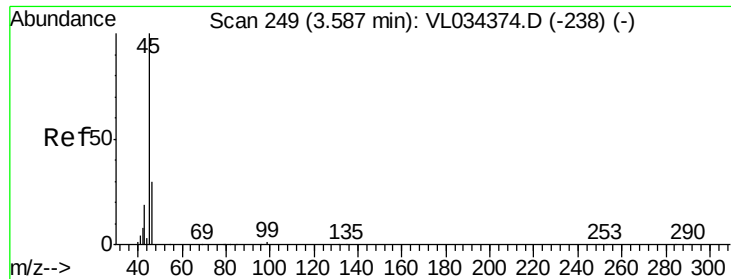
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#11
Trichlorofluoromethane
Concen: 0.252 ppbv m
RT: 3.93 min Scan# 356
Delta R.T. -0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion: 101 Resp: 35914
Ion Ratio Lower Upper
101 100
103 48.6 55.4 83.0#





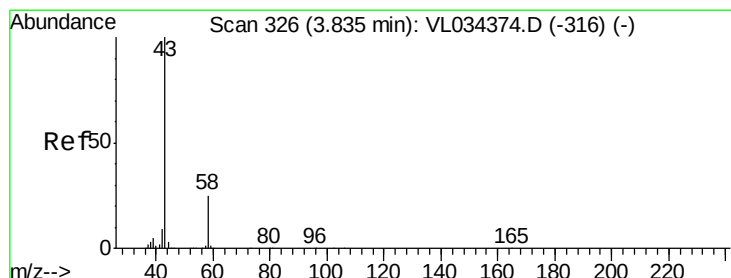
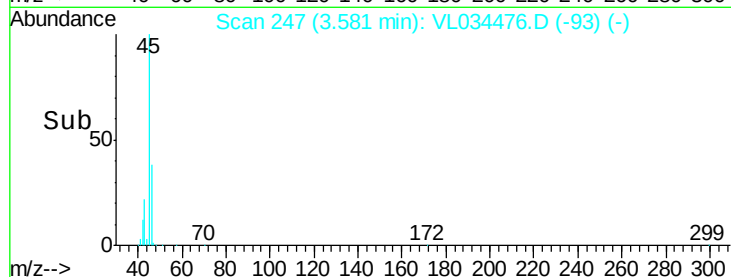
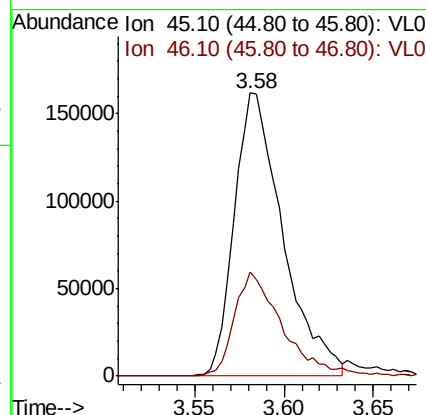
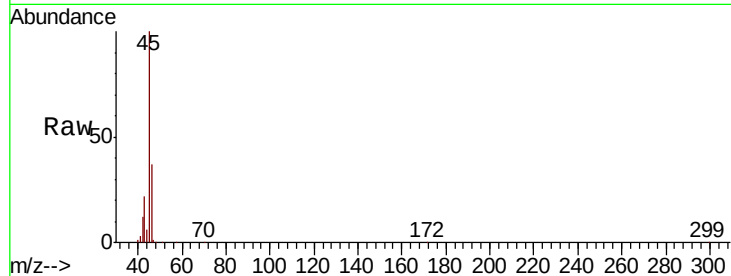
#13
Ethanol
Concen: 25.096 ppbv
RT: 3.58 min Scan# 247
Delta R.T. -0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Instrument :
MSVOA_L
ClientSampled :
1A-TE

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	36.3			13.8	55.4

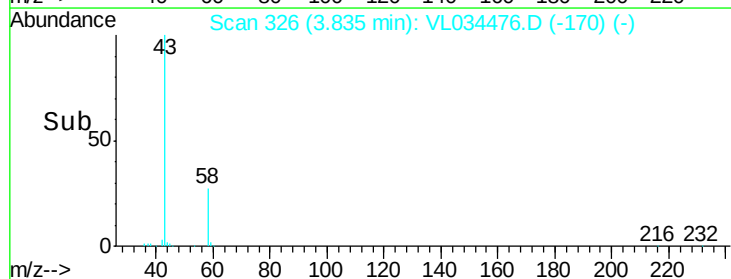
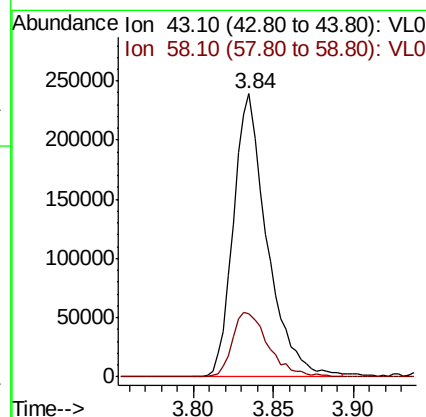
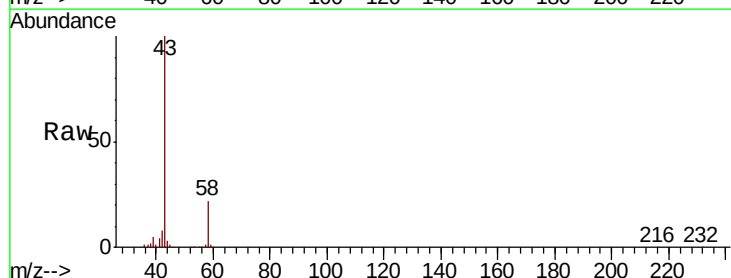
Manual Integrations
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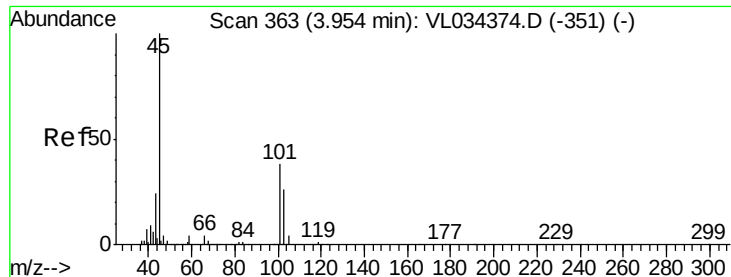
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#15
Acetone
Concen: 3.000 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.00 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58	24.7			20.2	30.4





#19

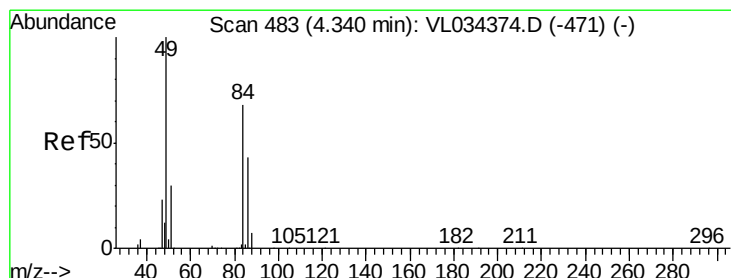
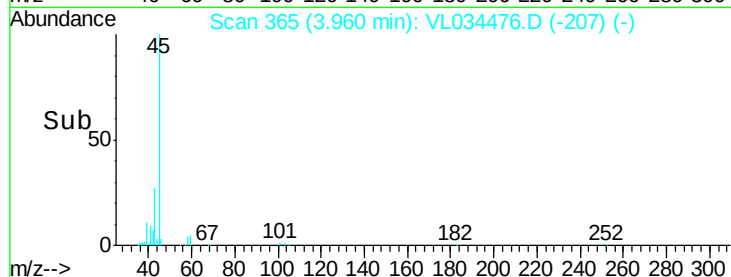
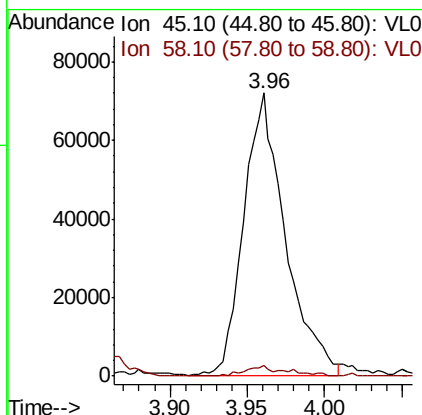
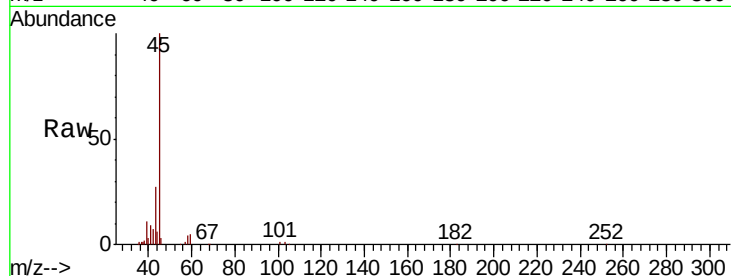
Isopropyl Alcohol
 Concen: 1.842 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VL034476.D
 Acq: 9 Dec 2019 22:47

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-TE

Tot Ion	Ratio	Lower	Upper
45	100		
58	3.7	1.3	1.9#

Manual Integrations
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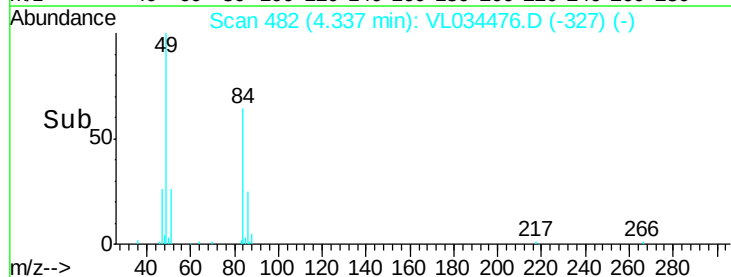
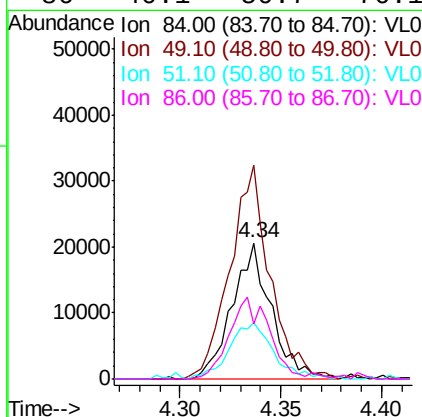
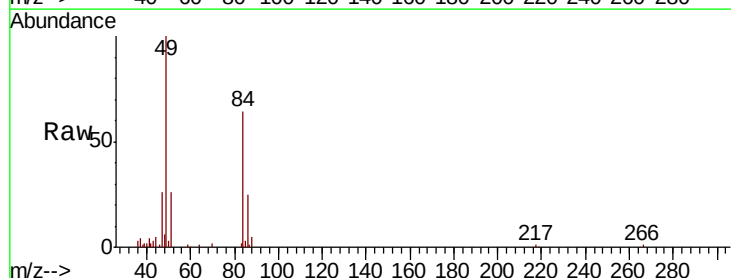
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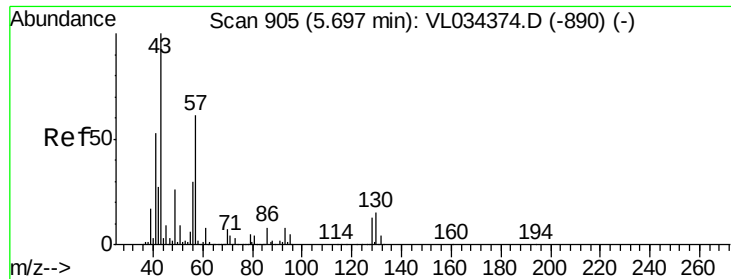


#20

Methylene Chloride
 Concen: 0.691 ppbv
 RT: 4.34 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: VL034476.D
 Acq: 9 Dec 2019 22:47

Tgt Ion	Ratio	Lower	Upper
84	100		
49	155.4	116.8	175.2
51	41.7	35.6	53.4
86	40.1	50.7	76.1#





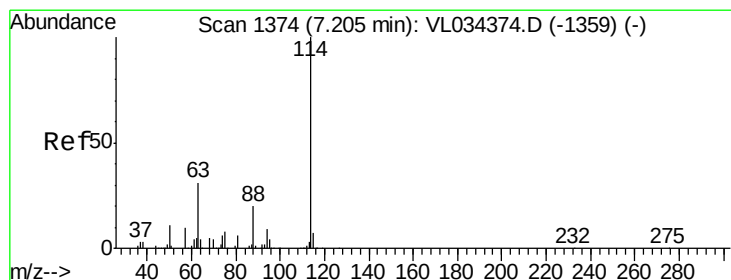
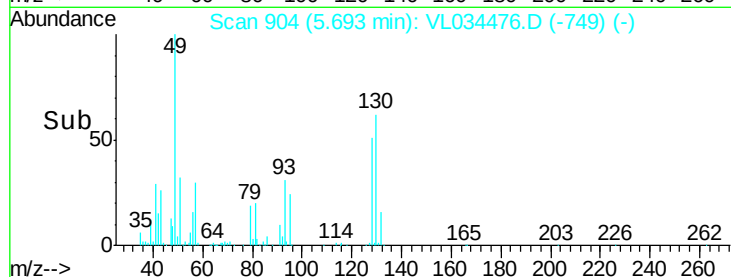
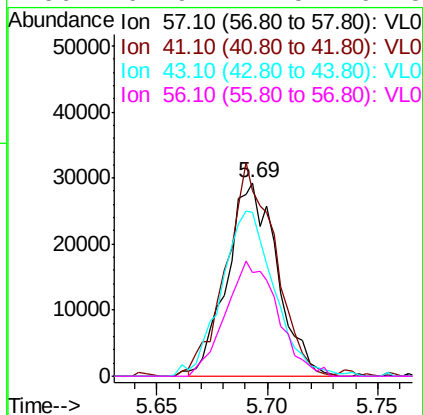
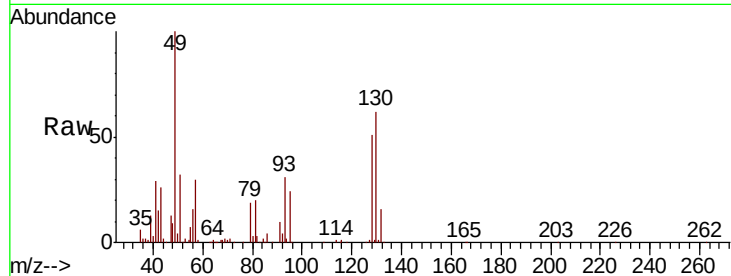
#26
Hexane
Concen: 0.531 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Instrument :
MSVOA_L
ClientSampled :
1A-TE

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	109.4	75.0	112.4	
43	90.8	186.6	279.8	
56	61.9	41.5	62.3	

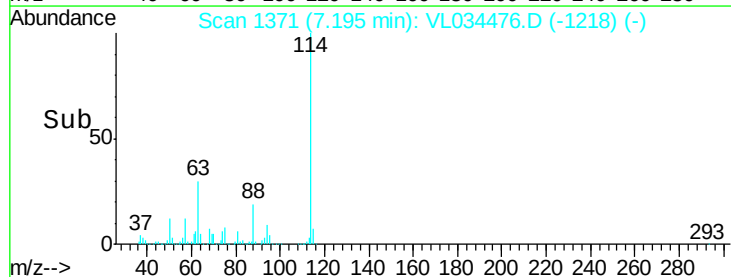
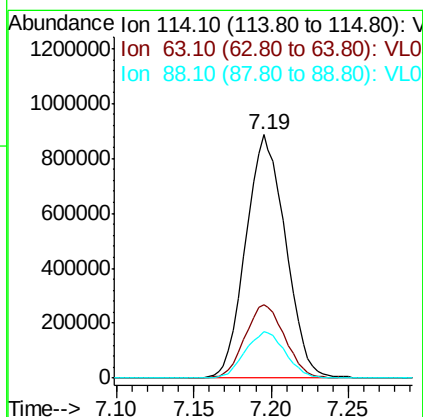
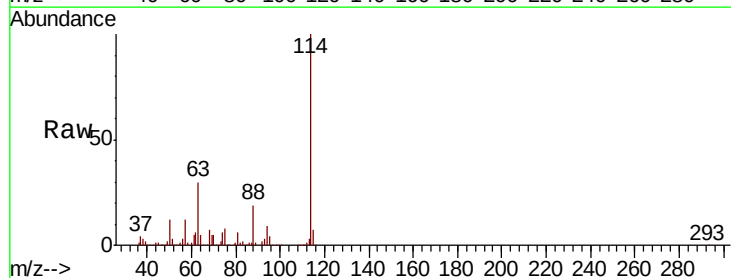
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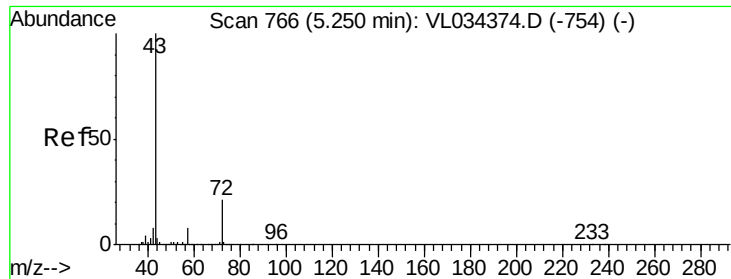
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. -0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	30.3	24.2	36.4	
88	19.4	15.9	23.9	





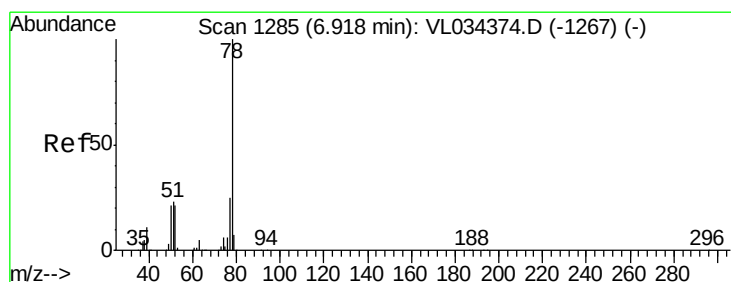
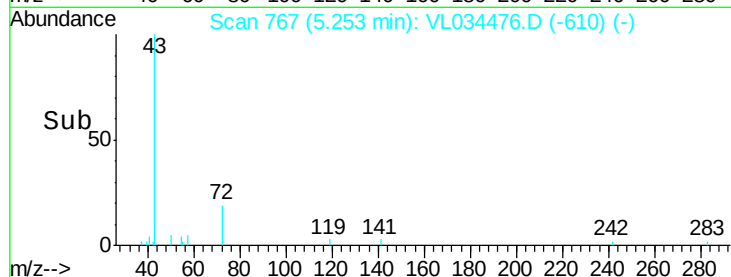
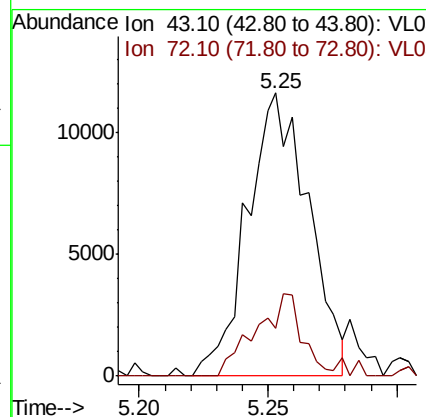
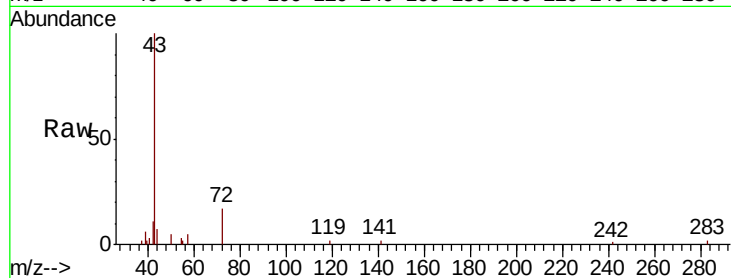
#34
2-Butanone
Concen: 0.147 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Instrument :
MSVOA_L
ClientSampled :
1A-TE

Tot Ion	43	Resp	19232
Ion Ratio	Lower	Upper	
43	100		
72	24.1	17.0	25.6

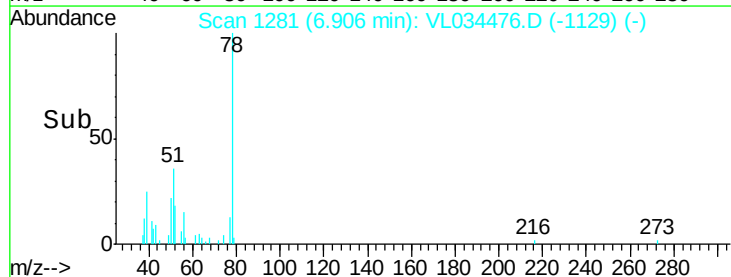
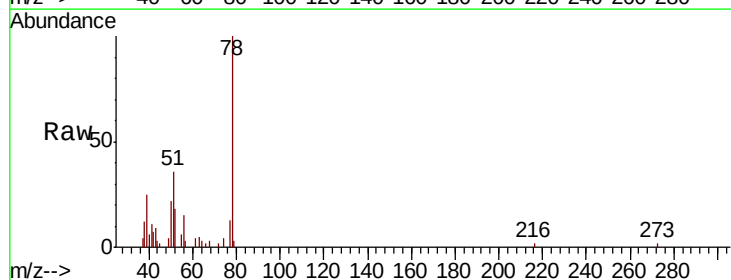
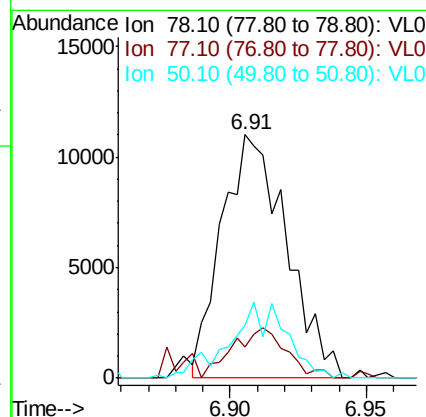
Manual Integrations
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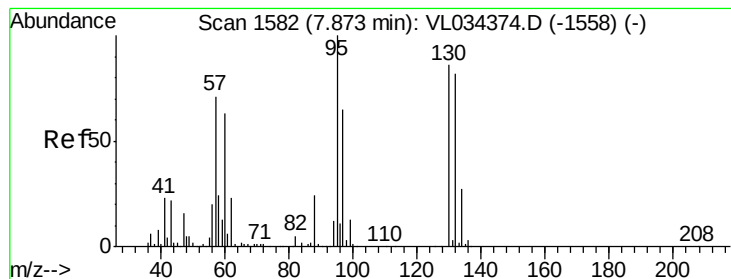
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#36
Benzene
Concen: 0.115 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion	78	Resp	18140
Ion Ratio	Lower	Upper	
78	100		
77	12.9	20.2	30.4#
50	19.1	17.1	25.7





#38

Trichloroethene

Concen: 0.039 ppbv m

RT: 7.86 min Scan# 1578

Delta R.T. -0.01 min

Lab File: VL034476.D

Acq: 9 Dec 2019 22:47

Instrument :

MSVOA_L

ClientSampled :

1A-TE

Tot Ion:130 Resp: 2535

Ion Ratio Lower Upper

130 100

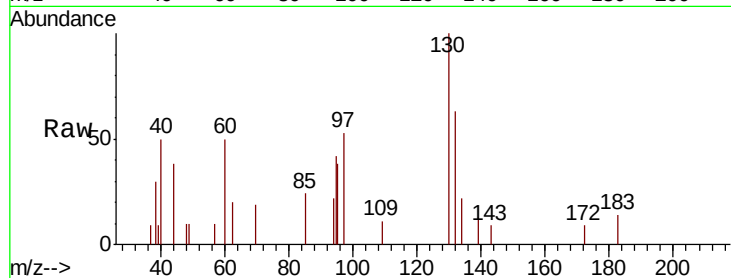
95 37.7 93.4 140.0#

132 62.9 76.4 114.6#

97 52.8 61.1 91.7#

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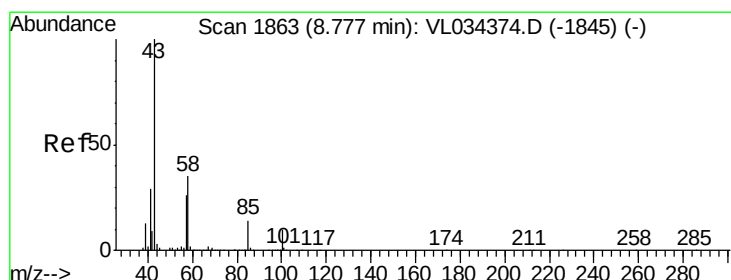
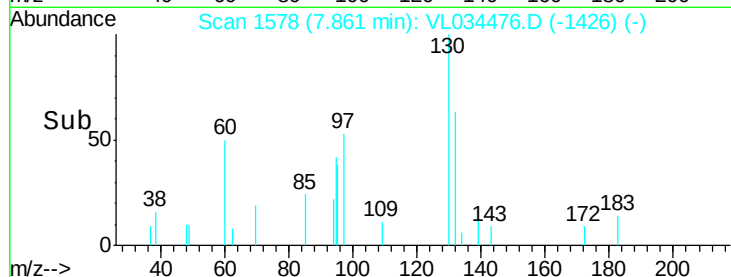
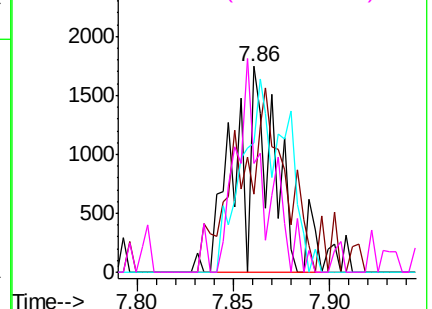


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.133 ppbv m

RT: 8.80 min Scan# 1870

Delta R.T. 0.02 min

Lab File: VL034476.D

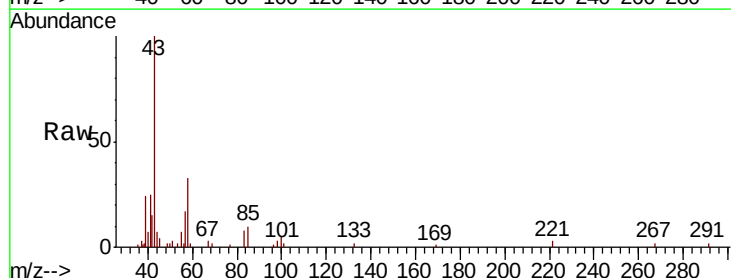
Acq: 9 Dec 2019 22:47

Tgt Ion: 43 Resp: 25168

Ion Ratio Lower Upper

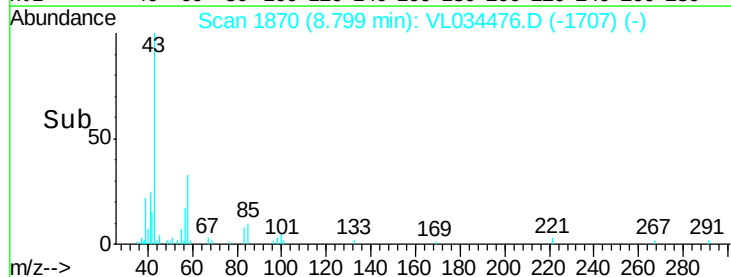
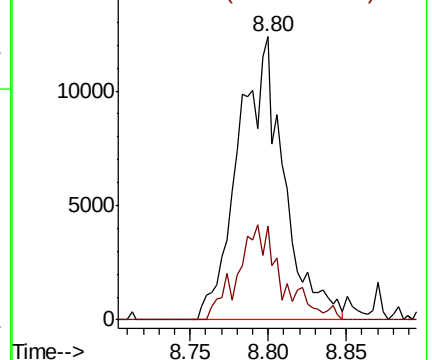
43 100

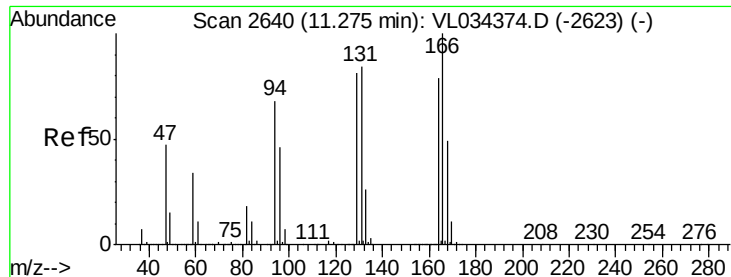
58 32.4 27.9 41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





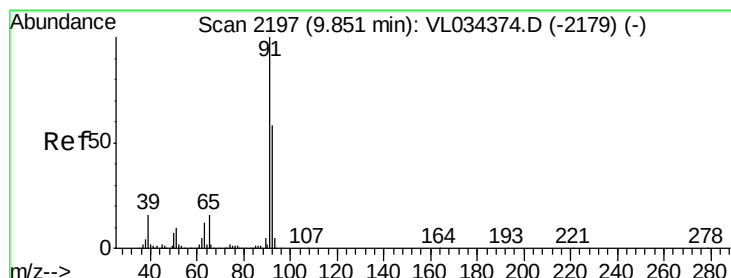
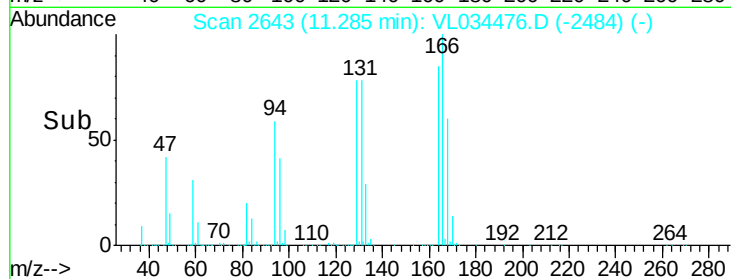
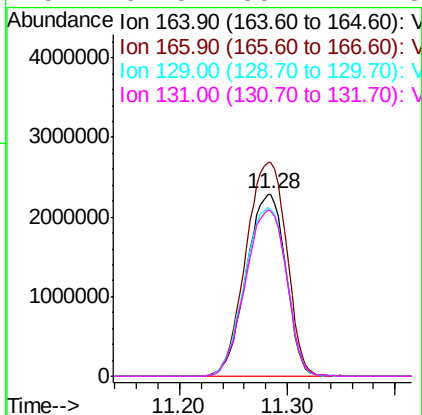
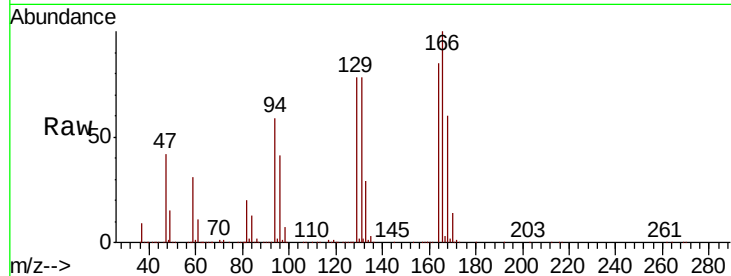
#52
Tetrachloroethene
Concen: 84.751 ppbv
RT: 11.28 min Scan# 2643
Delta R.T. 0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Instrument :
MSVOA_L
ClientSampleId :
1A-TE

Tot Ion:164 Resp: 5806970
Ion Ratio Lower Upper
164 100
166 117.3 101.7 152.5
129 91.2 82.6 123.8
131 91.0 85.2 127.8

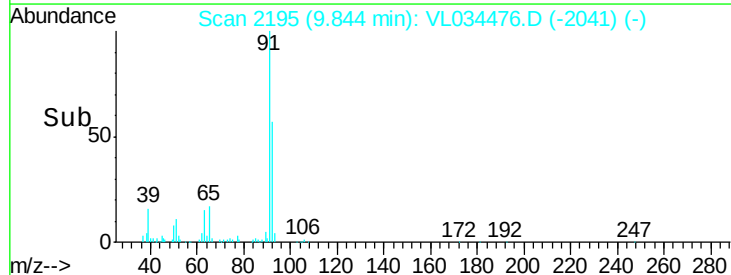
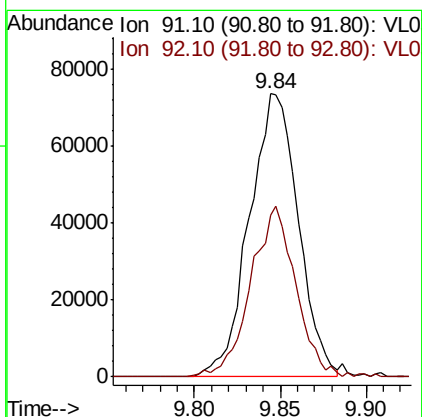
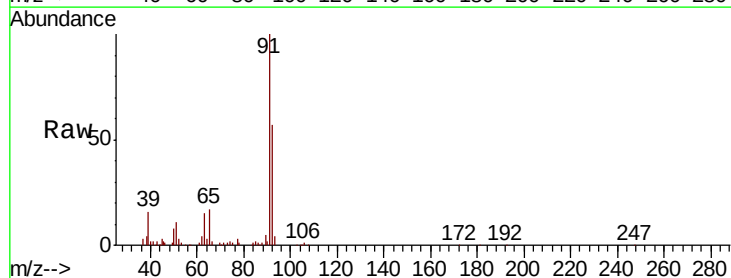
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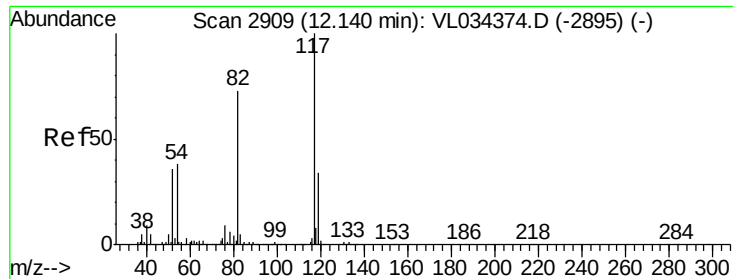
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#53
Toluene
Concen: 0.809 ppbv
RT: 9.84 min Scan# 2195
Delta R.T. -0.01 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion: 91 Resp: 145542
Ion Ratio Lower Upper
91 100
92 55.6 47.9 71.9





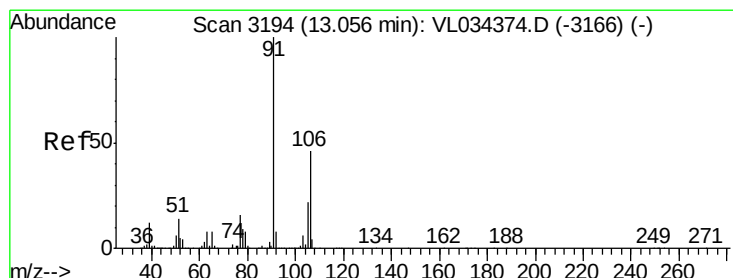
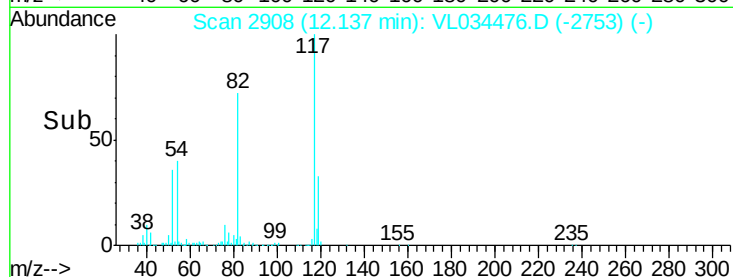
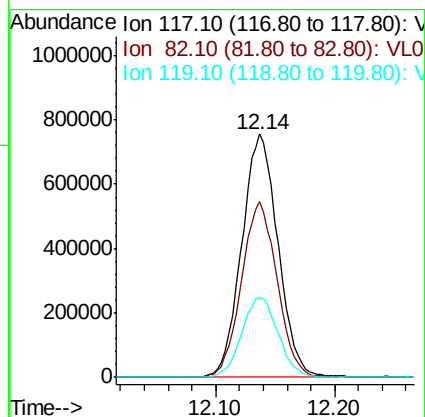
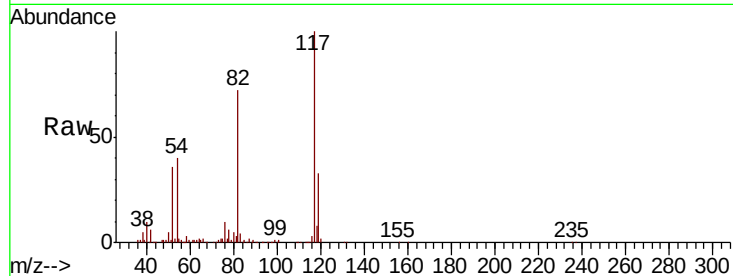
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Instrument :
MSVOA_L
ClientSampled :
1A-TE

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.2	57.5	86.3
119	33.2	25.4	38.2

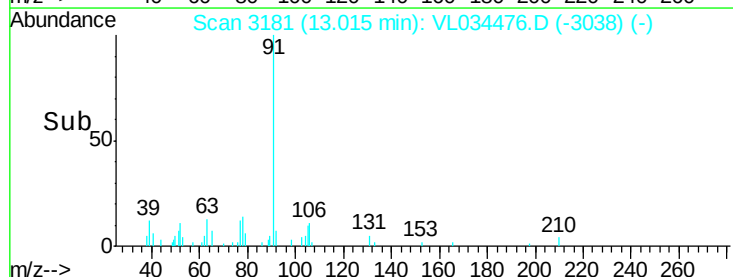
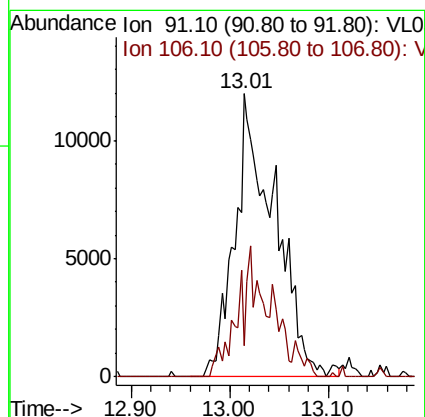
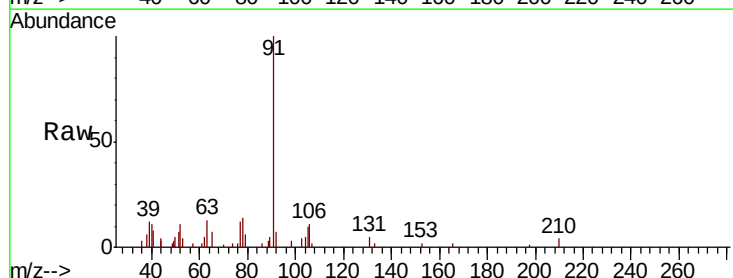
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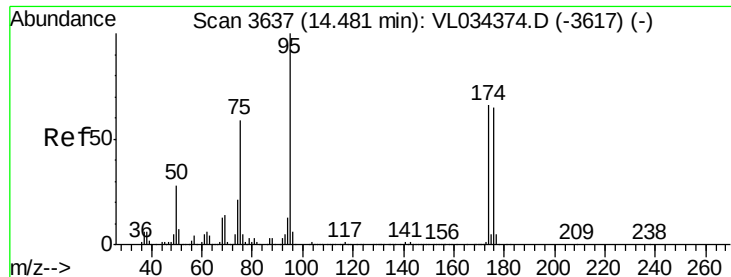
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#59
m/p-Xylene
Concen: 0.158 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.04 min
Lab File: VL034476.D
Acq: 9 Dec 2019 22:47

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.6	51.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.203 ppbv
 RT: 14.47 min Scan# 3635
 Delta R.T. -0.01 min
 Lab File: VL034476.D
 Acq: 9 Dec 2019 22:47

Instrument :
 MSVOA_L
 ClientSampleId :
 1A-TE

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	64.3	52.2	78.2	
175	4.6	3.8	5.8	

Manual Integrations
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