

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120919\
 Data File : VL034473.D
 Acq On : 9 Dec 2019 20:49
 Operator : SY/AP
 Sample : K6195-04DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-HWDUP

Manual Integrations
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Quant Time: Dec 10 04:42:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue 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	842253	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1673444	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1687939	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1428522	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	33287	0.218	ppbv	97
3) Chlorodifluoromethane	2.96	51	146127m	1.391	ppbv	
4) Chloromethane	3.11	50	30422	0.491	ppbv	99
9) Propene	2.99	41	34213	0.733	ppbv #	75
11) Trichlorofluoromethane	3.93	101	38354	0.253	ppbv	97
13) Ethanol	3.59	45	1552962	119.493	ppbv	95
15) Acetone	3.83	43	548742	4.550	ppbv	99
19) Isopropyl Alcohol	3.96	45	291820	3.775	ppbv #	97
20) Methylene Chloride	4.34	84	29226	0.683	ppbv	93
26) Hexane	5.69	57	84998	0.919	ppbv #	42
34) 2-Butanone	5.25	43	39370m	0.286	ppbv	
35) Carbon Tetrachloride	7.04	117	11129m	0.077	ppbv	
36) Benzene	6.91	78	26105m	0.156	ppbv	
38) Trichloroethene	7.86	130	4681m	0.068	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	71154	0.357	ppbv	95
52) Tetrachloroethene	11.29	164	8542129	118.018	ppbv	86
53) Toluene	9.84	91	279375	1.470	ppbv	99
59) m/p-Xylene	13.01	91	31956m	0.141	ppbv	

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

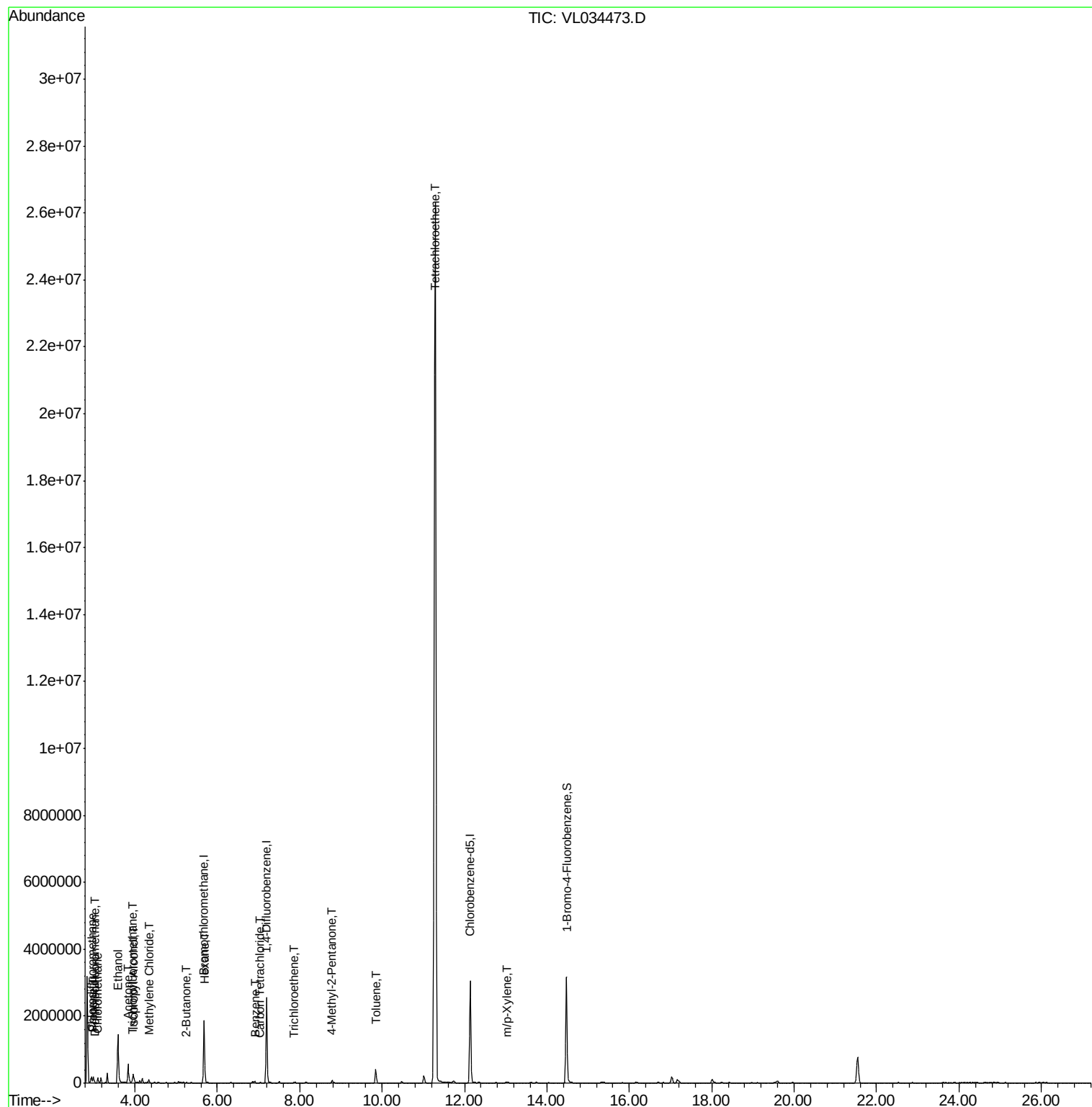
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120919\
Data File : VL034473.D
Acq On : 9 Dec 2019 20:49
Operator : SY/AP
Sample : K6195-04DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

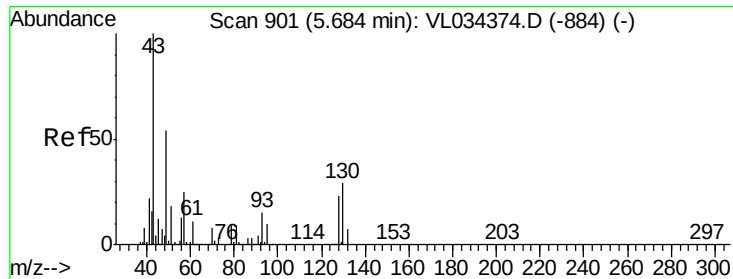
Instrument :
MSVOA_L
ClientSampleId :
IA-HWDUP

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Quant Time: Dec 10 04:42:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue 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: VL034473.D

Acq: 9 Dec 2019 20:49

Instrument :

MSVOA_L

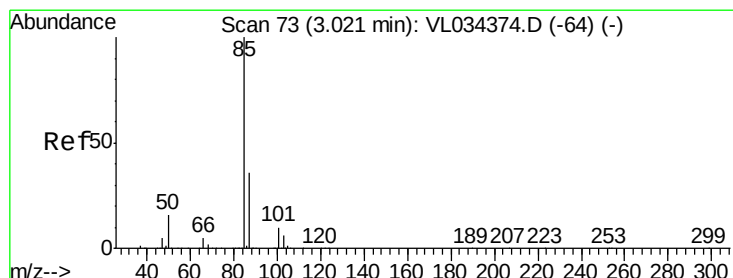
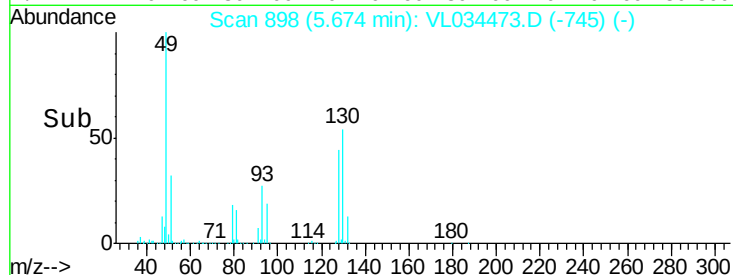
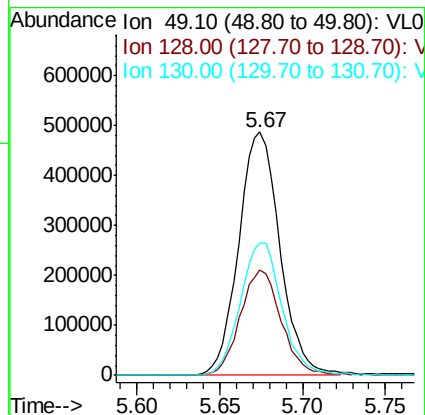
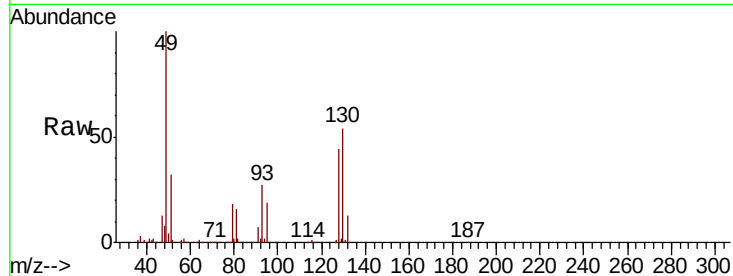
ClientSampled :

IA-HWDUP

Tot Ion:	49	Resp:	842253
Ion	Ratio	Lower	Upper
49	100		
128	43.6	21.8	65.3
130	55.7	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.218 ppbv

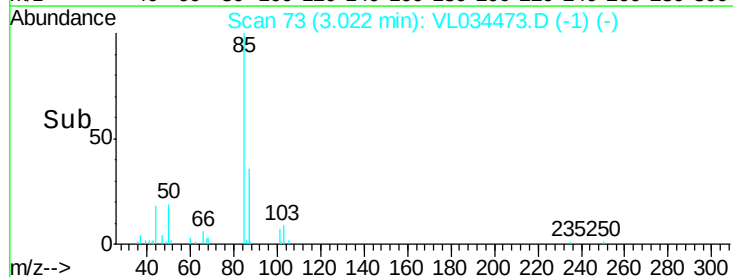
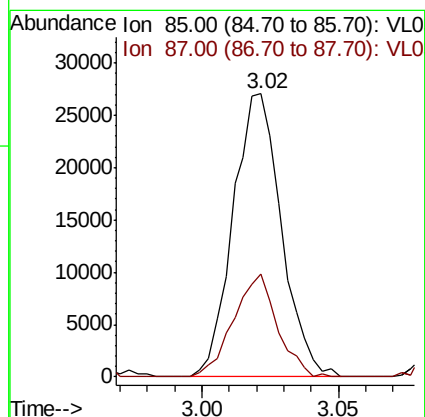
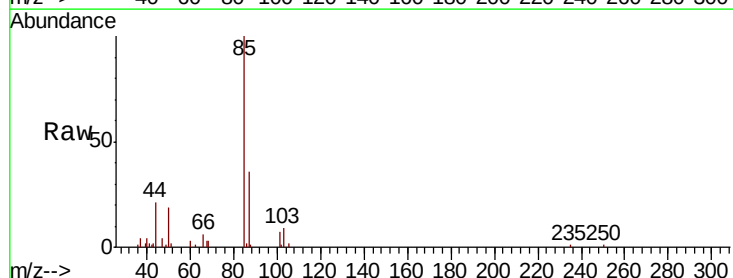
RT: 3.02 min Scan# 73

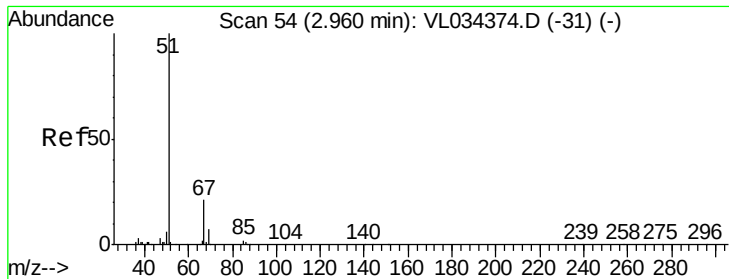
Delta R.T. 0.00 min

Lab File: VL034473.D

Acq: 9 Dec 2019 20:49

Tgt Ion:	85	Resp:	33287
Ion	Ratio	Lower	Upper
85	100		
87	37.6	28.5	42.7





#3

Chlorodifluoromethane

Concen: 1.391 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.00 min

Lab File: VL034473.D

Acq: 9 Dec 2019 20:49

Instrument :

MSVOA_L

ClientSampleId :

IA-HWDUP

Tot Ion: 51 Resp: 146127

Ion Ratio Lower Upper

51 100

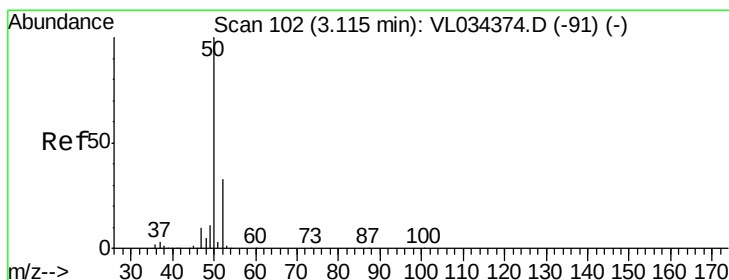
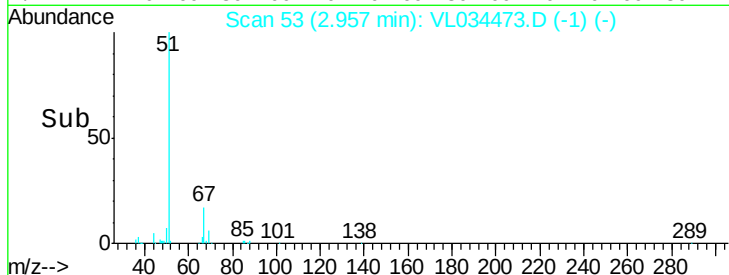
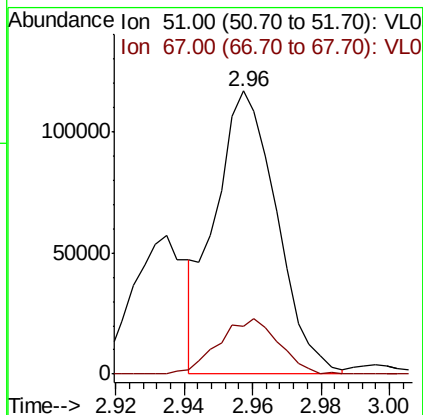
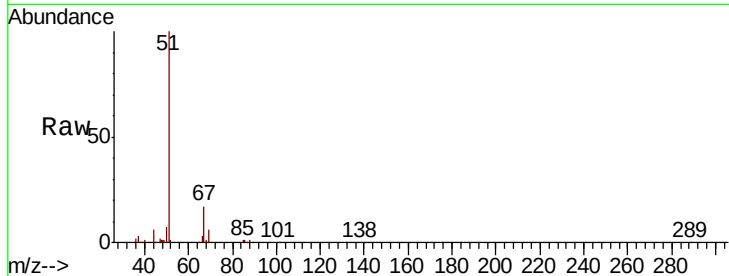
67 19.2 16.2 24.2

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#4

Chloromethane

Concen: 0.491 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034473.D

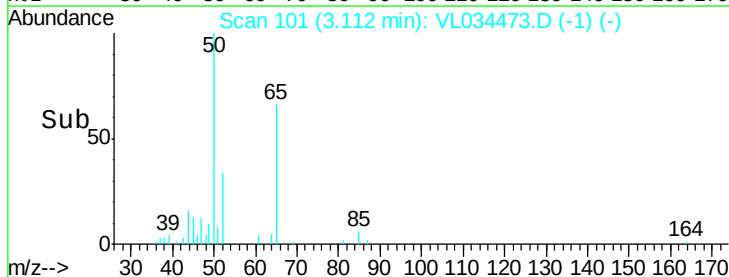
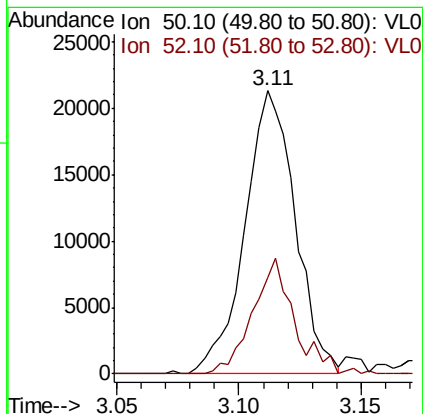
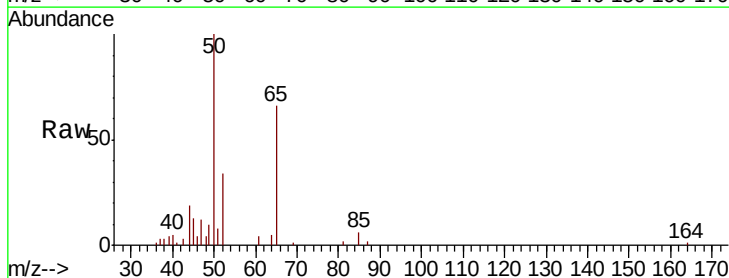
Acq: 9 Dec 2019 20:49

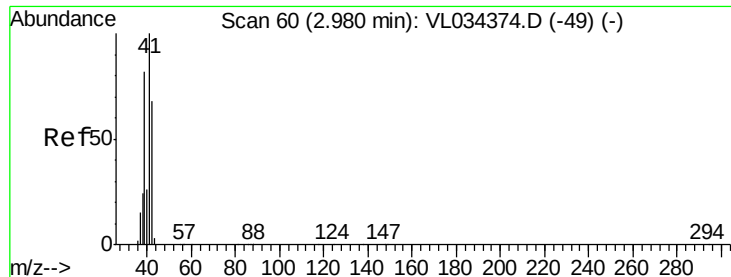
Tgt Ion: 50 Resp: 30422

Ion Ratio Lower Upper

50 100

52 34.1 26.8 40.2





#9

Propene

Concen: 0.733 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034473.D

Acq: 9 Dec 2019 20:49

Instrument :

MSVOA_L

ClientSampleId :

IA-HWDUP

Tot Ion: 41 Resp: 34213

Ion Ratio Lower Upper

41 100

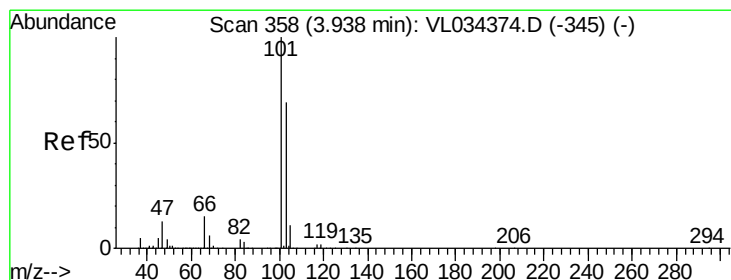
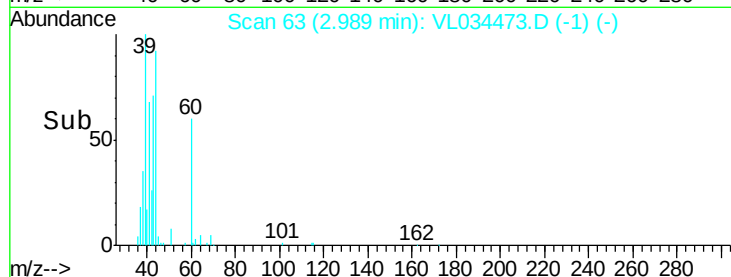
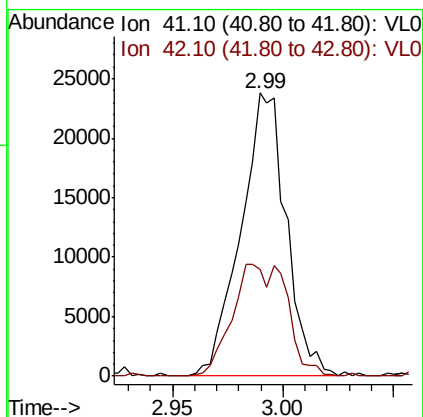
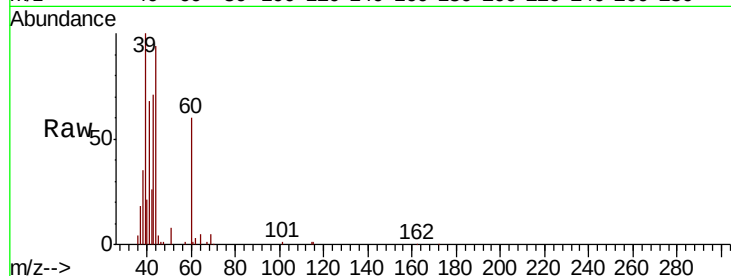
42 47.7 54.6 82.0#

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#11

Trichlorofluoromethane

Concen: 0.253 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL034473.D

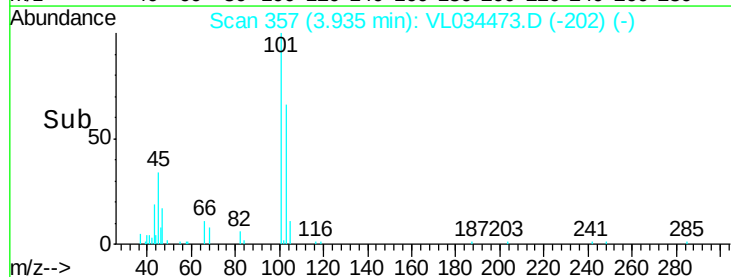
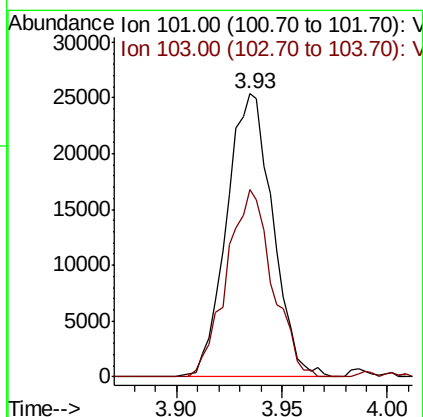
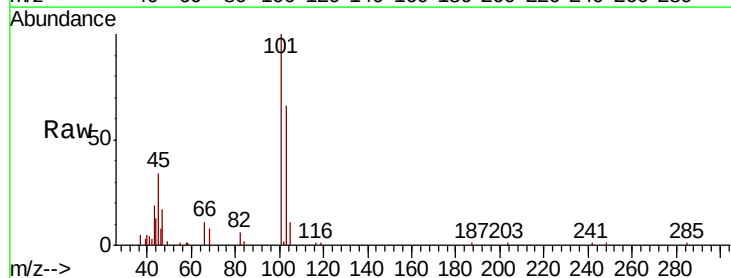
Acq: 9 Dec 2019 20:49

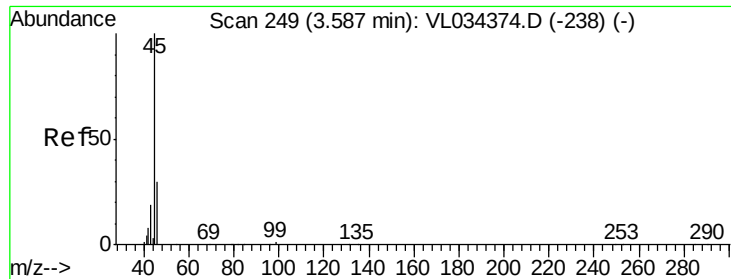
Tgt Ion: 101 Resp: 38354

Ion Ratio Lower Upper

101 100

103 66.4 55.4 83.0





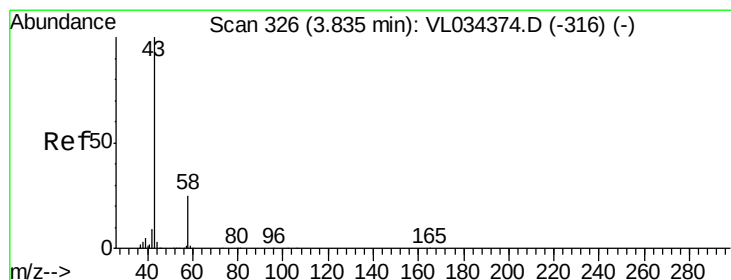
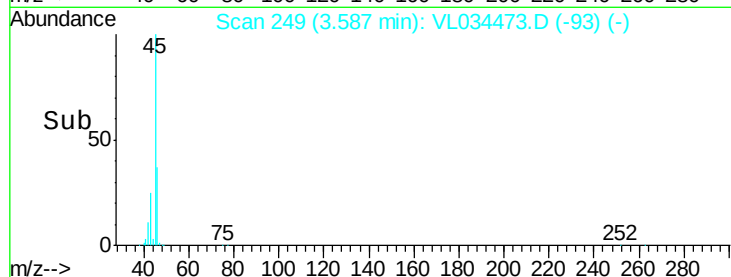
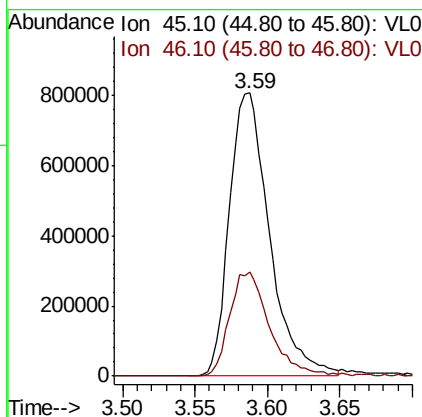
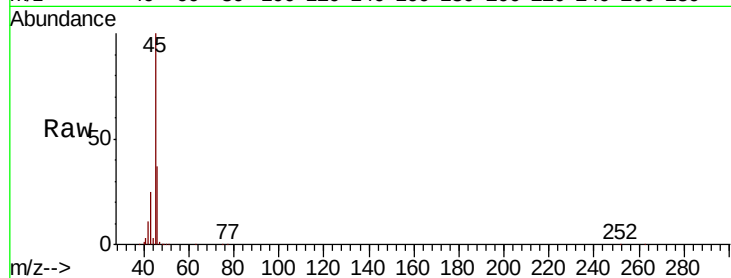
#13
Ethanol
Concen: 119.493 ppbv
RT: 3.59 min Scan# 249
Delta R.T. 0.00 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Instrument :
MSVOA_L
ClientSampleId :
IA-HWDUP

Tot Ion: 45 Resp: 1552962
Ion Ratio Lower Upper
45 100
46 37.4 13.8 55.4

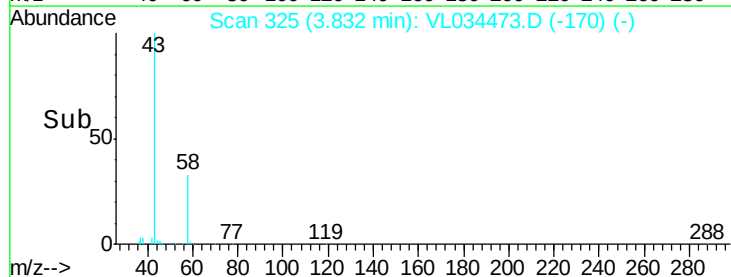
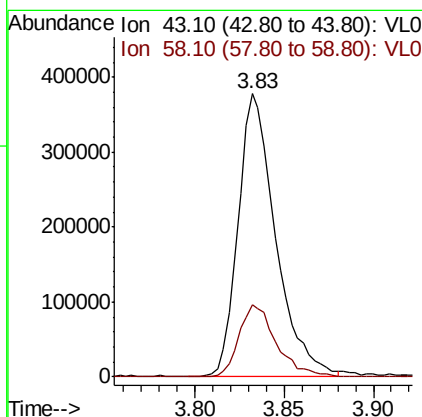
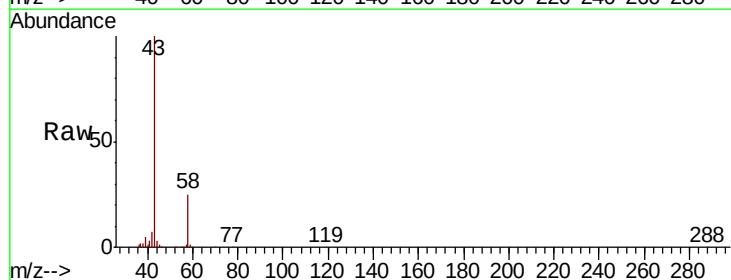
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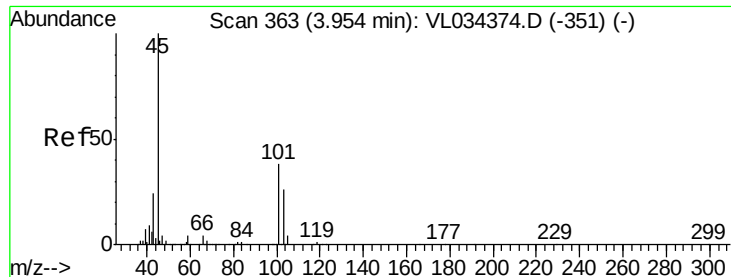
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#15
Acetone
Concen: 4.550 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.00 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Tgt Ion: 43 Resp: 548742
Ion Ratio Lower Upper
43 100
58 25.7 20.2 30.4





#19

Isopropyl Alcohol

Concen: 3.775 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL034473.D

Acq: 9 Dec 2019 20:49

Instrument :

MSVOA_L

ClientSampleId :

IA-HWDUP

Tot Ion: 45 Resp: 291820

Ion Ratio Lower Upper

45 100

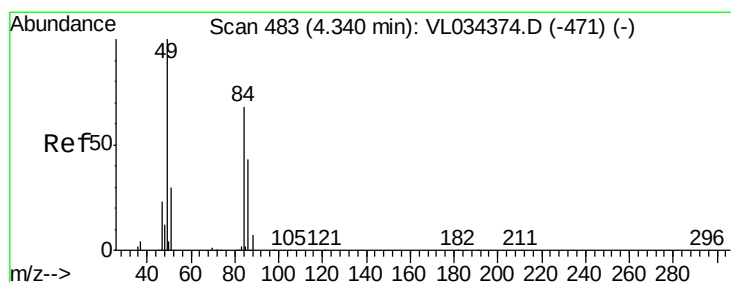
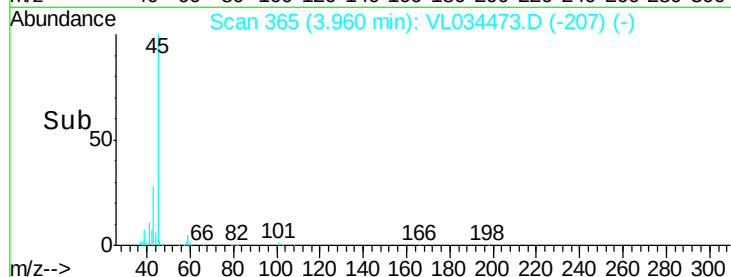
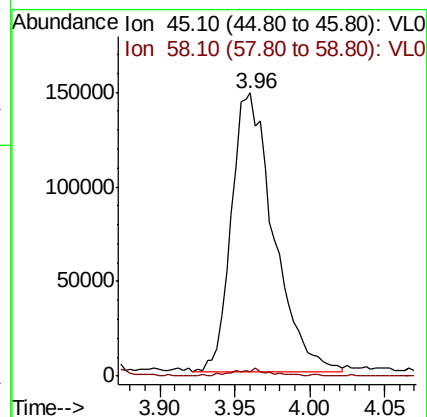
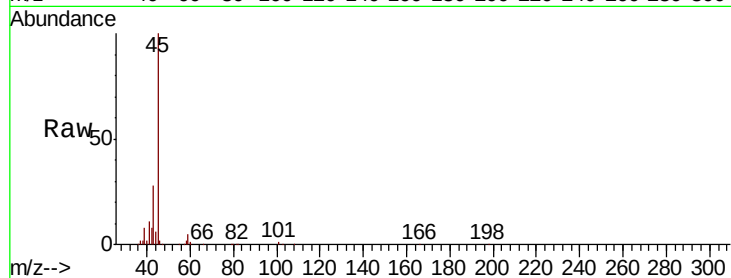
58 2.7 1.3 1.9#

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#20

Methylene Chloride

Concen: 0.683 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL034473.D

Acq: 9 Dec 2019 20:49

Tgt Ion: 84 Resp: 29226

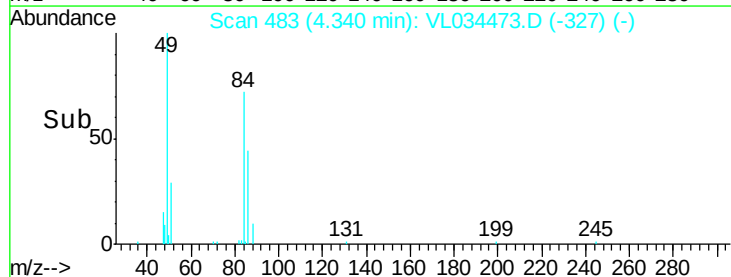
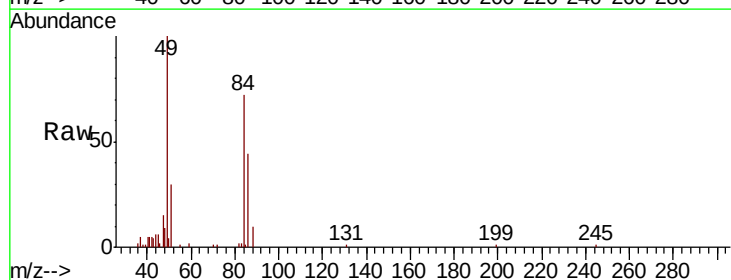
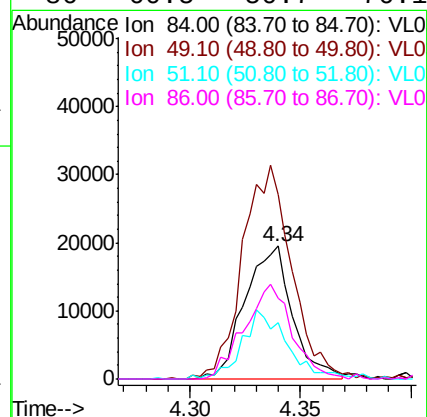
Ion Ratio Lower Upper

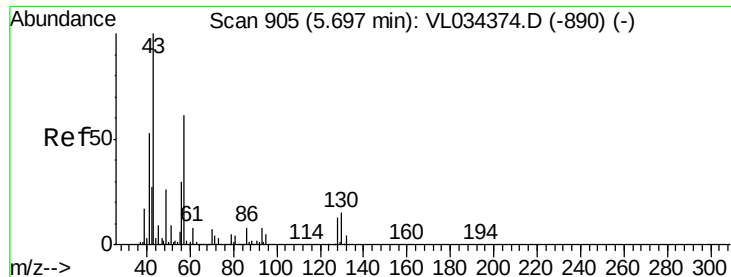
84 100

49 136.0 116.8 175.2

51 39.1 35.6 53.4

86 60.5 50.7 76.1





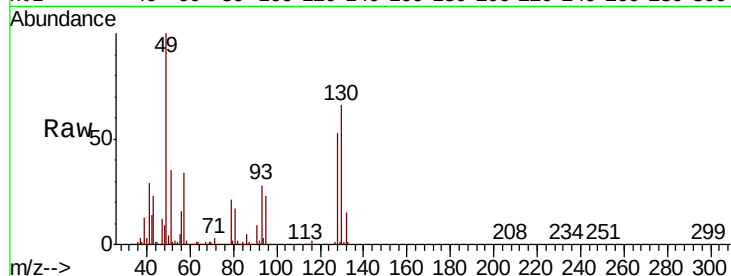
#26
Hexane
Concen: 0.919 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Instrument :
MSVOA_L
ClientSampleId :
IA-HWDUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	99.4	75.0	112.4
43	81.9	186.6	279.8#
56	54.4	41.5	62.3

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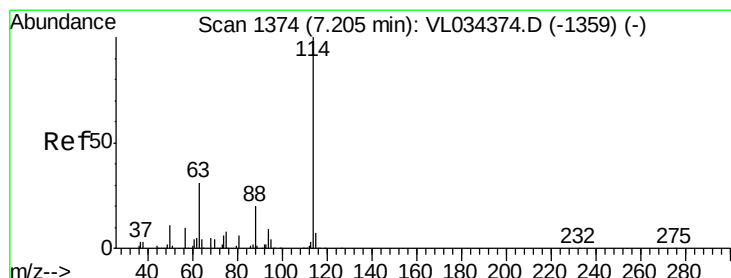
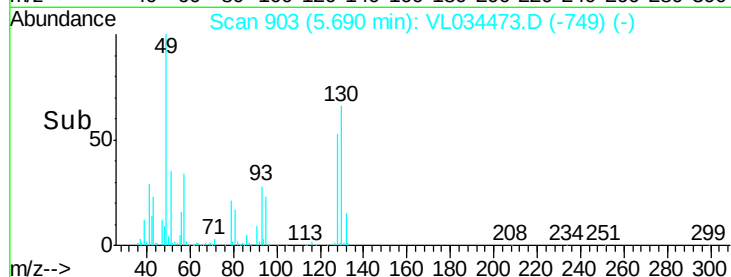
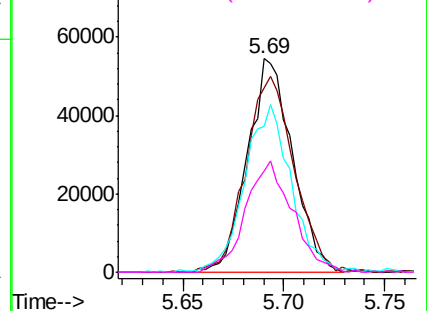
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

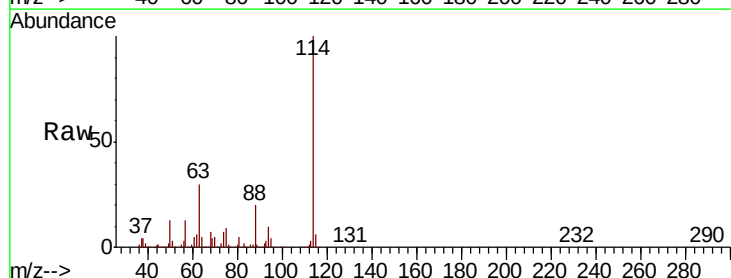
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.8	24.2	36.4
88	19.8	15.9	23.9

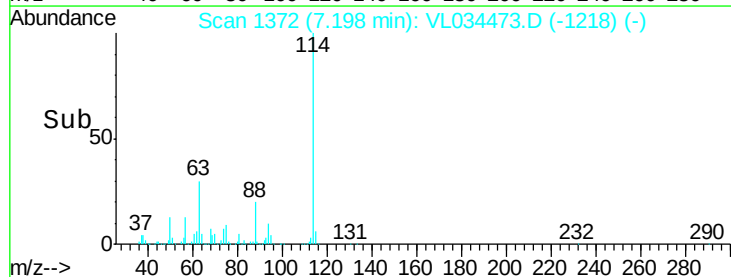
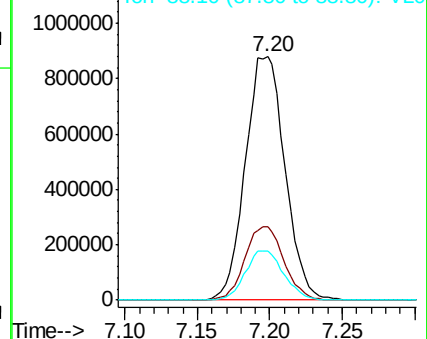


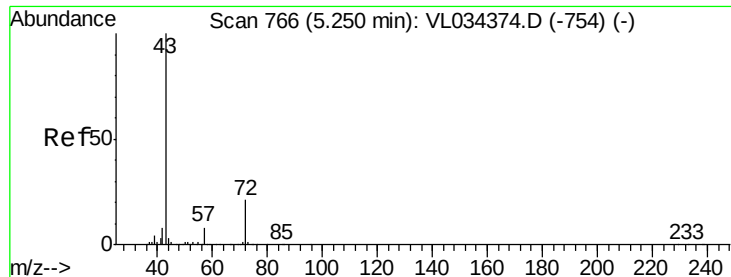
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





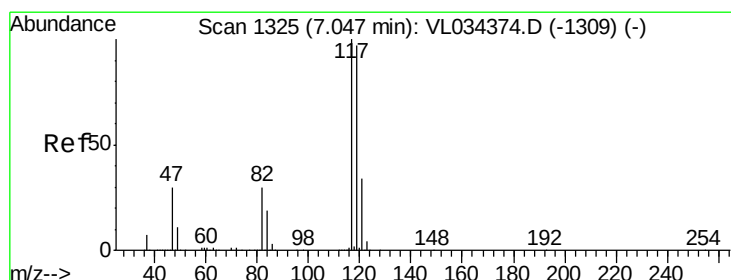
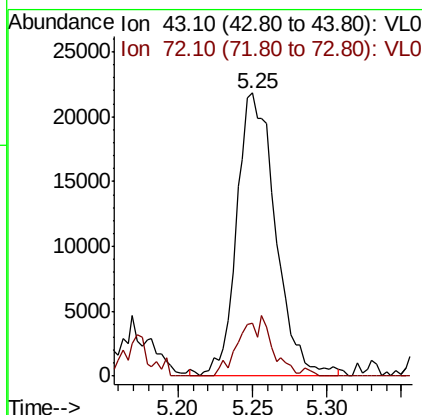
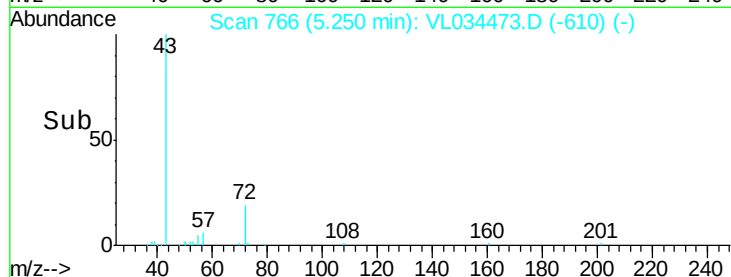
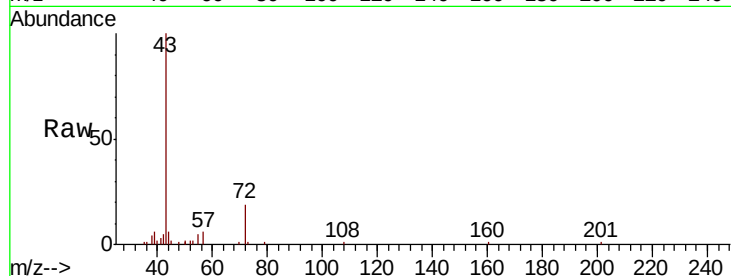
#34
2-Butanone
Concen: 0.286 ppbv m
RT: 5.25 min Scan# 766
Delta R.T. 0.00 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Instrument :
MSVOA_L
ClientSampleId :
IA-HWDUP

Tot Ion: 43 Resp: 39370
Ion Ratio Lower Upper
43 100
72 18.7 17.0 25.6

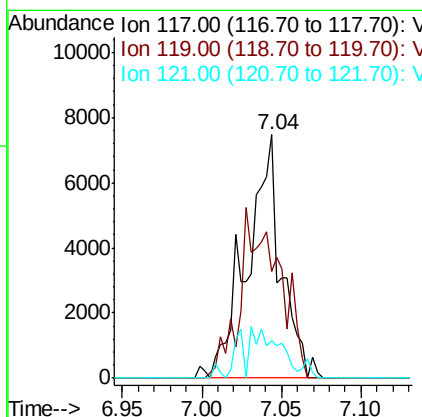
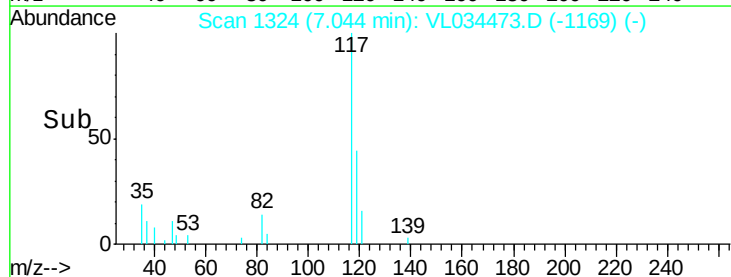
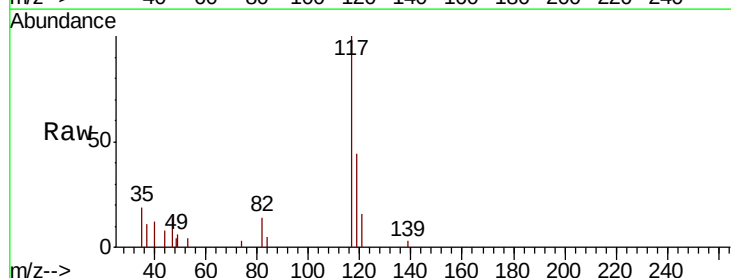
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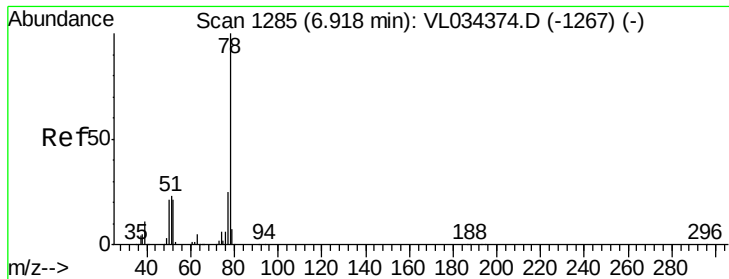
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#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 7.04 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Tgt Ion: 117 Resp: 11129
Ion Ratio Lower Upper
117 100
119 43.7 77.3 115.9#
121 15.6 27.4 41.2#





#36

Benzene

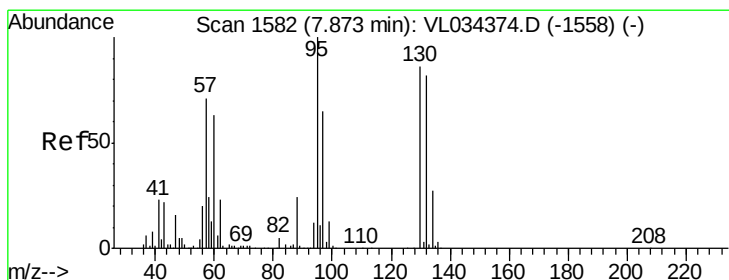
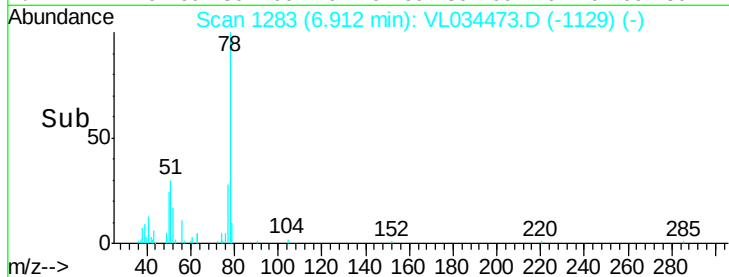
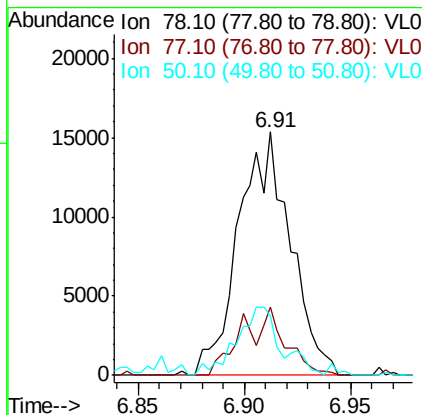
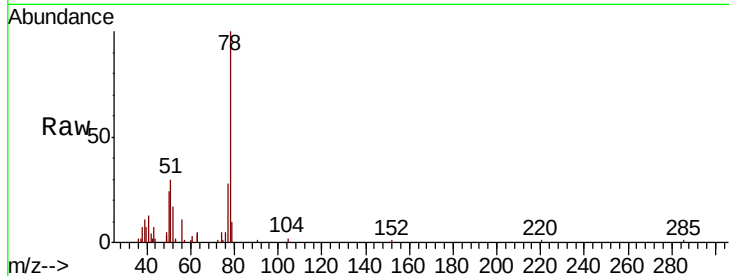
Concen: 0.156 ppbv m
RT: 6.91 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Instrument :
MSVOA_L
ClientSampleId :
IA-HWDUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	28.2	20.2	30.4
50	24.2	17.1	25.7

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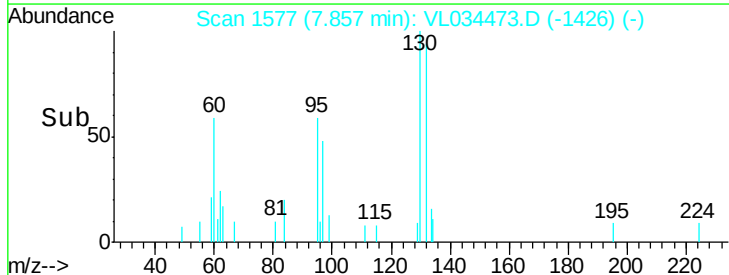
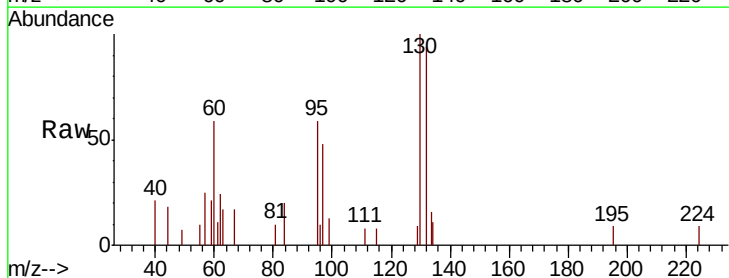
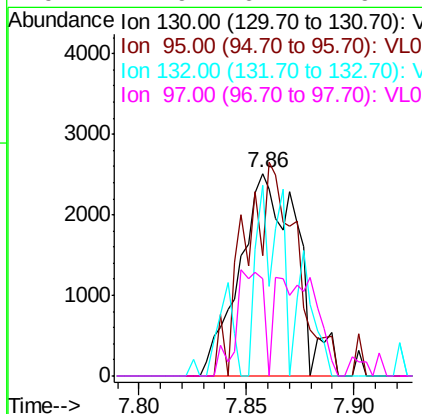


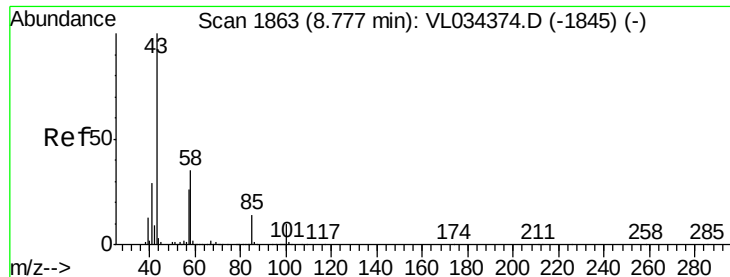
#38

Trichloroethene

Concen: 0.068 ppbv m
RT: 7.86 min Scan# 1577
Delta R.T. -0.02 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Tgt Ion	Ratio	Lower	Upper
130	100		
95	59.5	93.4	140.0#
132	94.1	76.4	114.6
97	47.9	61.1	91.7#





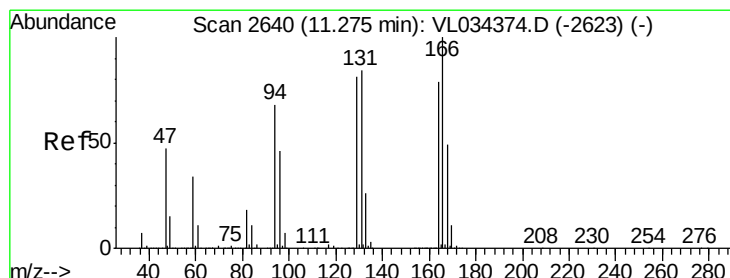
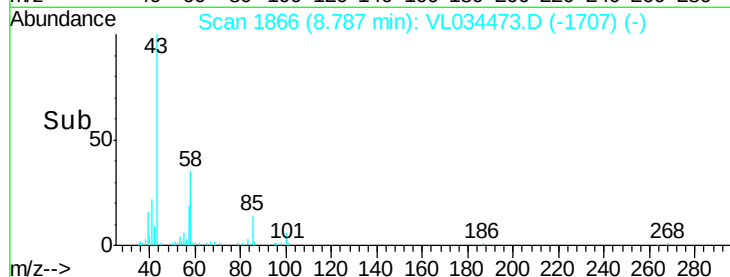
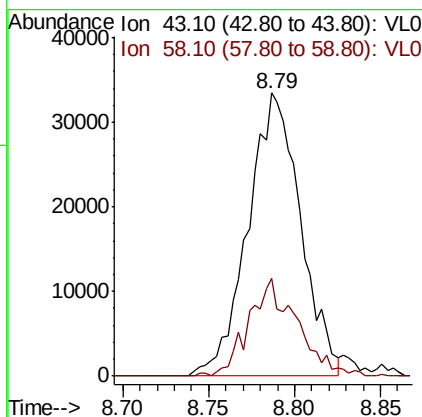
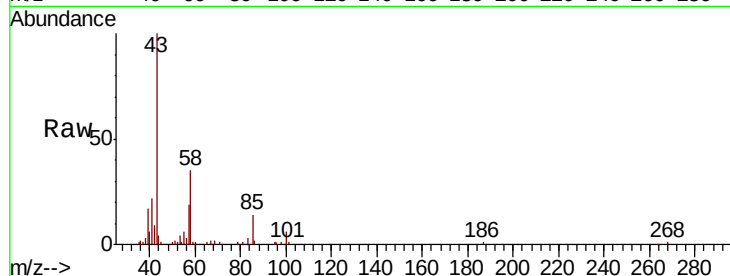
#50
4-Methyl-2-Pentanone
Concen: 0.357 ppbv
RT: 8.79 min Scan# 1866
Delta R.T. 0.01 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Instrument :
MSVOA_L
ClientSampleId :
IA-HWDUP

Tot Ion	43	Resp	71154
Ion Ratio	100	Lower	Upper
43	100		
58	31.7	27.9	41.9

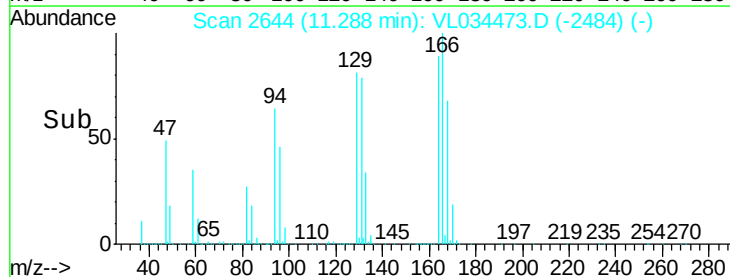
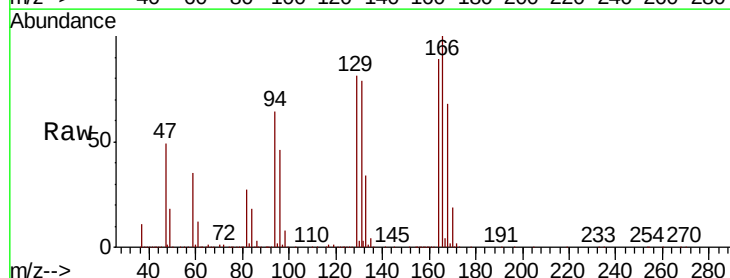
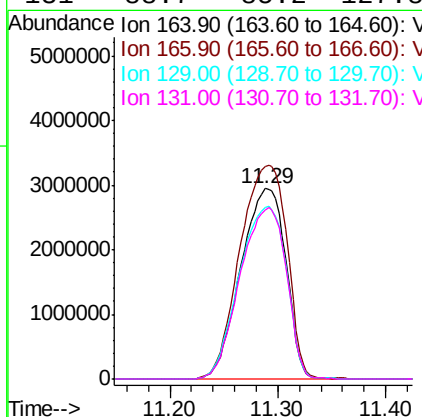
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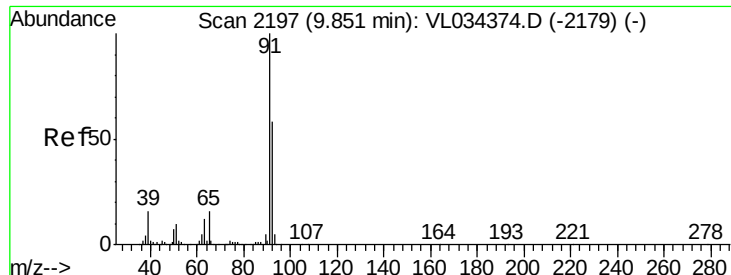
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#52
Tetrachloroethene
Concen: 118.018 ppbv
RT: 11.29 min Scan# 2644
Delta R.T. 0.01 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Tgt Ion	164	Resp	8542129
Ion Ratio	100	Lower	Upper
164	100		
166	112.0	101.7	152.5
129	90.4	82.6	123.8
131	88.7	85.2	127.8





#53

Toluene

Concen: 1.470 ppbv

RT: 9.84 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL034473.D

Acq: 9 Dec 2019 20:49

Instrument :

MSVOA_L

ClientSampleId :

IA-HWDUP

Tot Ion: 91 Resp: 279375

Ion Ratio Lower Upper

91 100

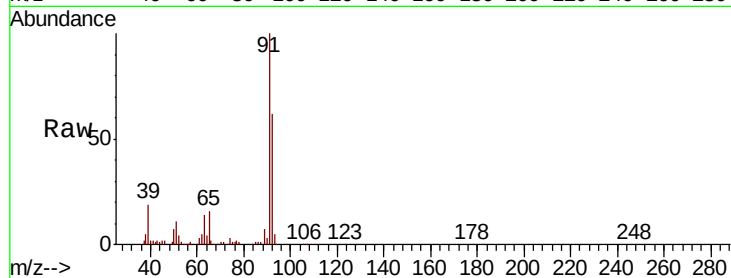
92 60.7 47.9 71.9

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.84

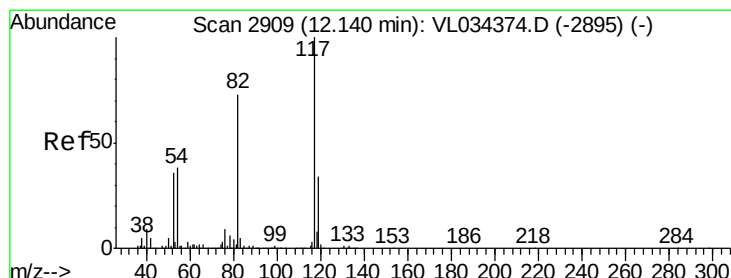
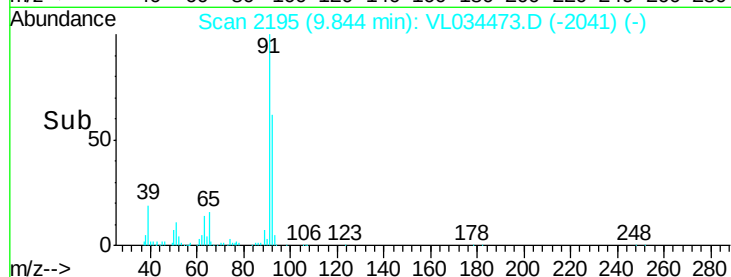
150000

100000

50000

0

Time--> 9.75 9.80 9.85 9.90



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL034473.D

Acq: 9 Dec 2019 20:49

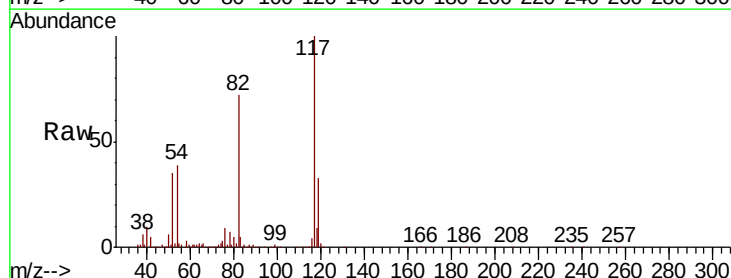
Tgt Ion: 117 Resp: 1687939

Ion Ratio Lower Upper

117 100

82 72.4 57.5 86.3

119 33.4 25.4 38.2



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1000000

800000

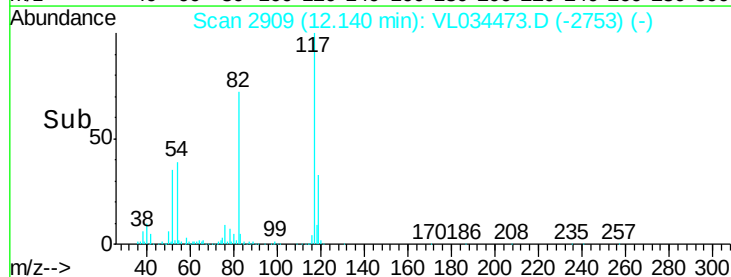
600000

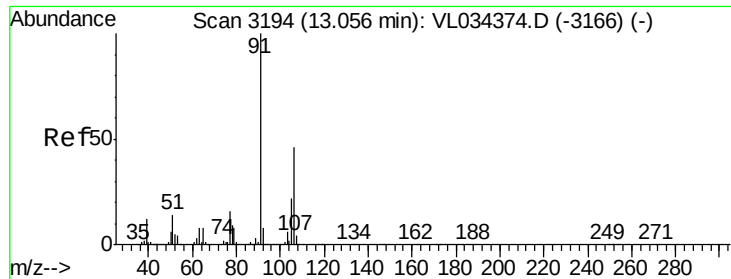
400000

200000

0

Time--> 12.10 12.20





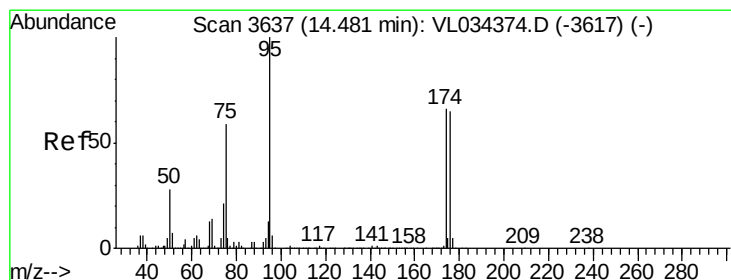
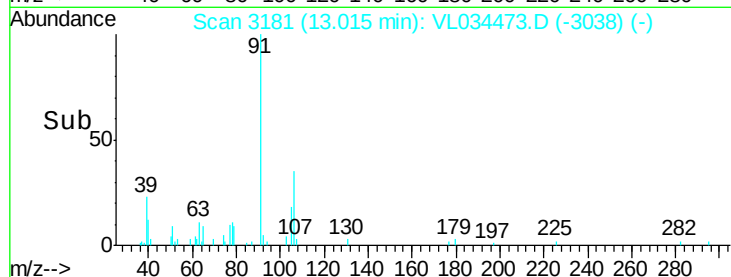
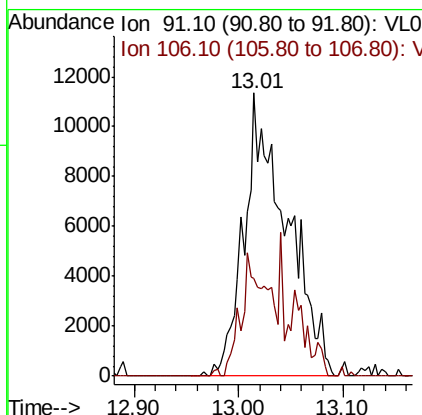
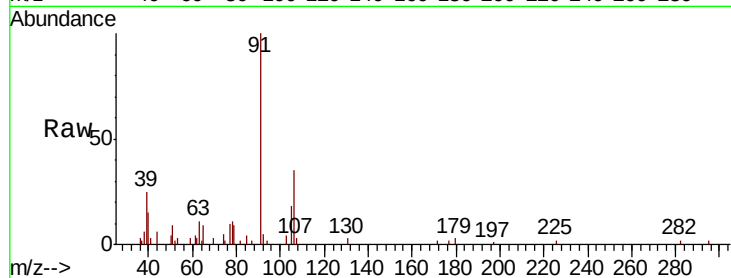
#59
m/p-Xylene
Concen: 0.141 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.04 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Instrument :
MSVOA_L
ClientSampleId :
IA-HWDUP

Tot Ion: 91 Resp: 31956
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

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#68
1-Bromo-4-Fluorobenzene
Concen: 10.060 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL034473.D
Acq: 9 Dec 2019 20:49

Tgt Ion: 95 Resp: 1428522
Ion Ratio Lower Upper
95 100
174 65.9 52.2 78.2
175 4.5 3.8 5.8

