

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034396.D
 Acq On : 20 Nov 2019 2:11
 Operator : SY/AP
 Sample : K5924-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:54:17 PM

Quant Time: Nov 20 11:16:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 20 11:16:23 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	935912	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1850520	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1792282	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1545956	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	36976	0.218	ppbv	89
3) Chlorodifluoromethane	2.96	51	29976m	0.257	ppbv	
4) Chloromethane	3.12	50	26118	0.379	ppbv	91
9) Propene	2.99	41	20382m	0.393	ppbv	
11) Trichlorofluoromethane	3.94	101	34590	0.205	ppbv	92
13) Ethanol	3.60	45	36915	2.431	ppbv	90
15) Acetone	3.83	43	428357	3.196	ppbv	96
19) Isopropyl Alcohol	3.97	45	19784	0.203	ppbv #	96
20) Methylene Chloride	4.34	84	40855m	0.860	ppbv	
26) Hexane	5.70	57	54665m	0.532	ppbv	
35) Carbon Tetrachloride	7.04	117	10423m	0.066	ppbv	
53) Toluene	9.84	91	30608m	0.146	ppbv	

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

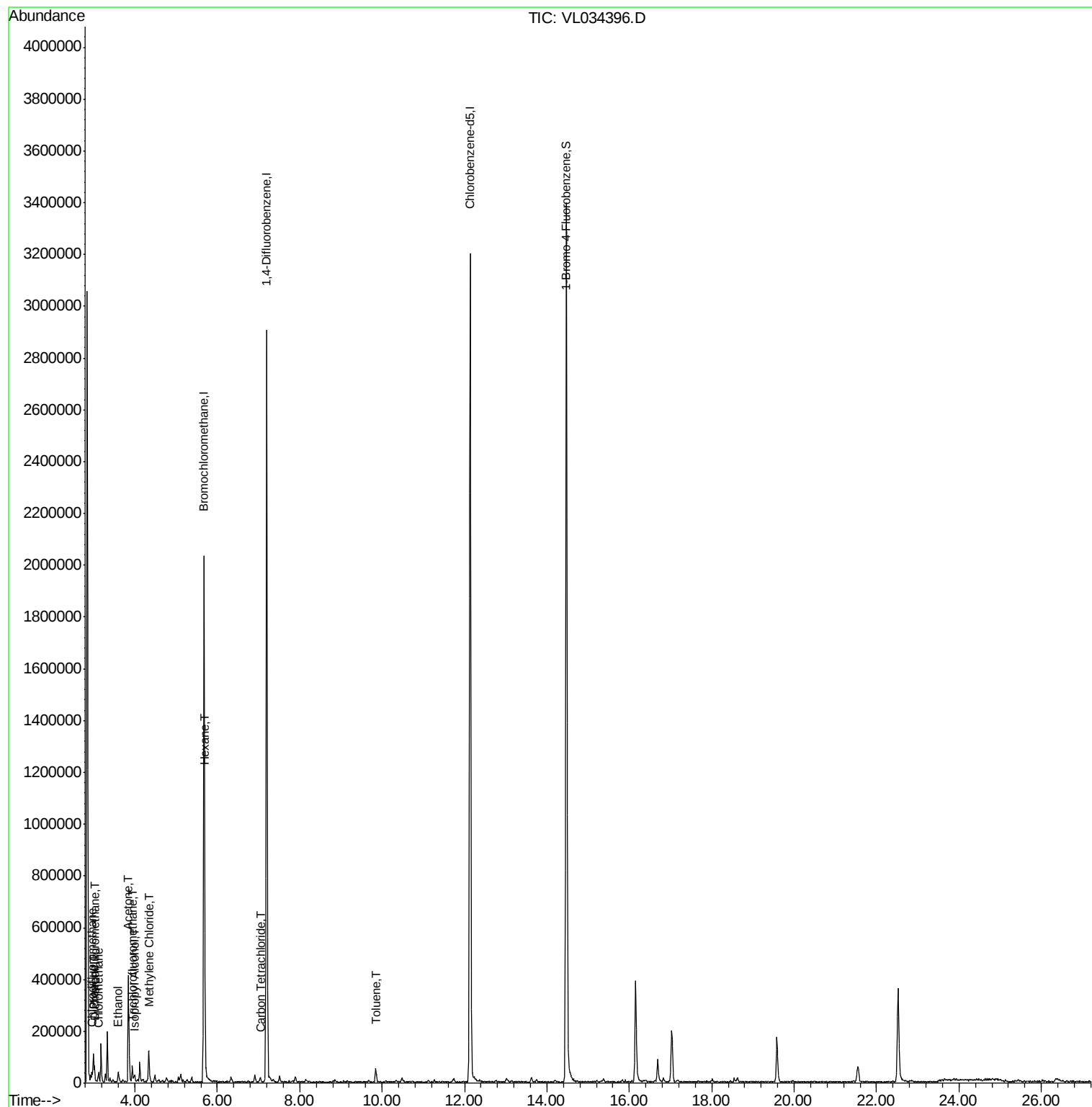
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111919\
Data File : VL034396.D
Acq On : 20 Nov 2019 2:11
Operator : SY/AP
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Misc : 400ml/MSVOA L
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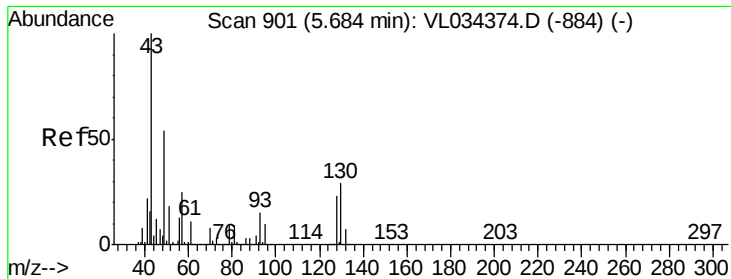
Instrument :
MSVOA_L
ClientSampleId :
OA1

Manual Integrations
APPROVED

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11/20/2019 3:54:17 PM

Quant Time: Nov 20 11:16:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 20 03:30:54 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: VL034396.D

Acq: 20 Nov 2019 2:11

Instrument :

MSVOA_L

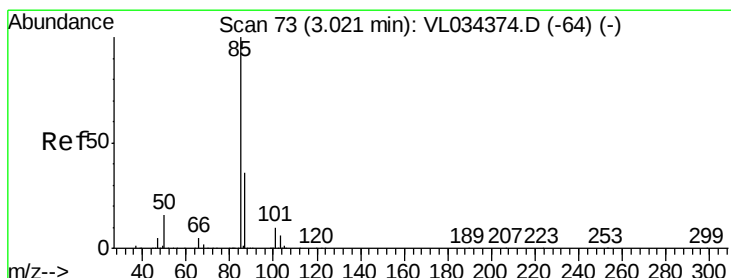
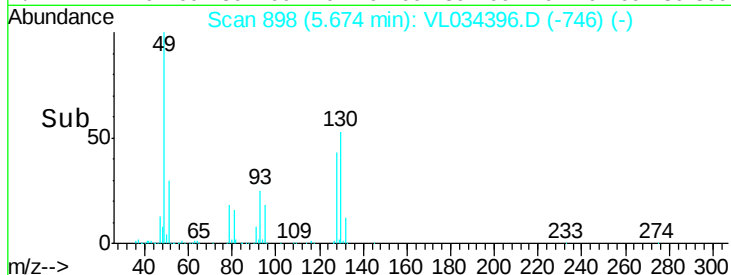
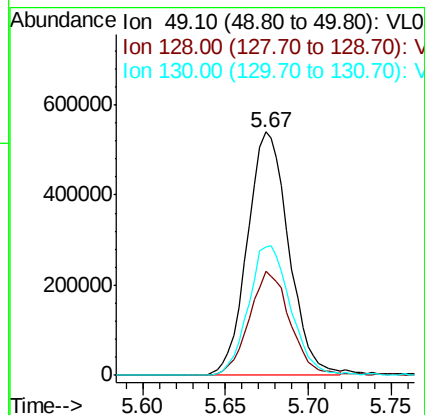
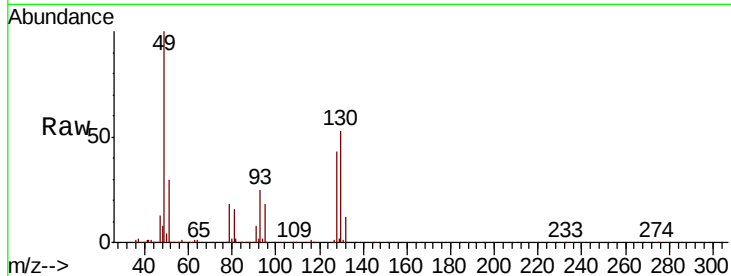
ClientSampled :

QA1

Tot Ion:	49	Resp:	935912
Ion Ratio	Lower	Upper	
49	100		
128	42.6	21.8	65.3
130	54.9	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.218 ppbv

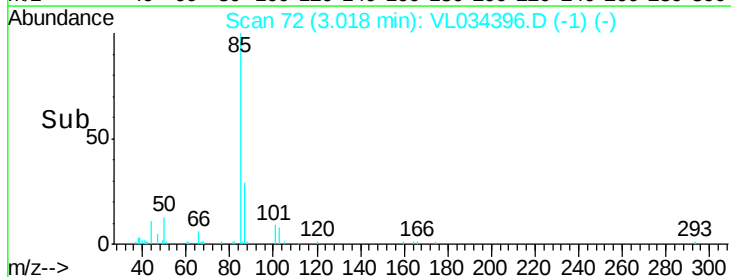
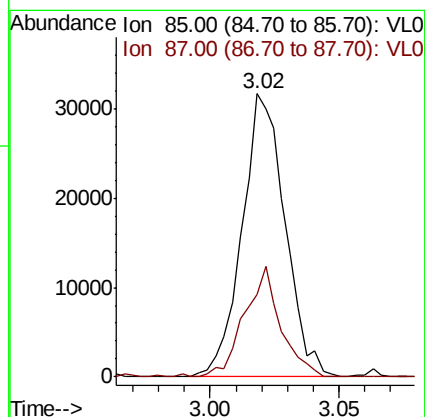
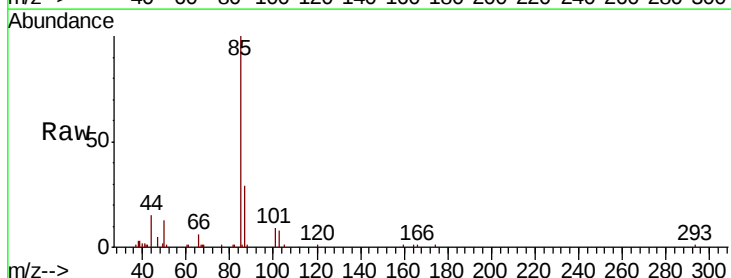
RT: 3.02 min Scan# 72

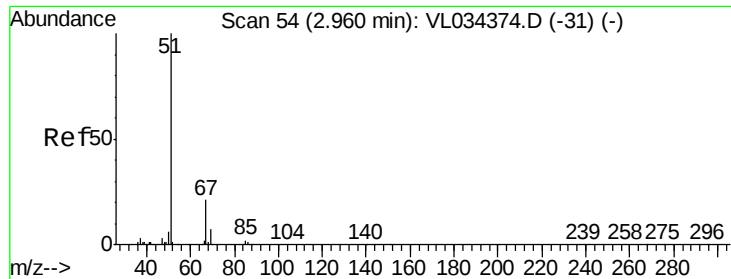
Delta R.T. -0.00 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Tgt Ion:	85	Resp:	36976
Ion Ratio	Lower	Upper	
85	100		
87	29.0	28.5	42.7





#3

Chlorodifluoromethane

Concen: 0.257 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.00 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 51 Resp: 29976

Ion Ratio Lower Upper

51 100

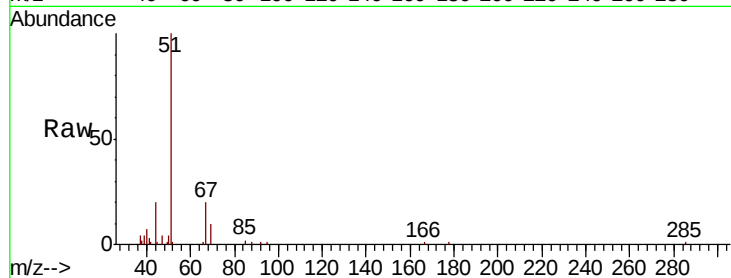
67 1.1 16.2 24.2#

Manual Integrations

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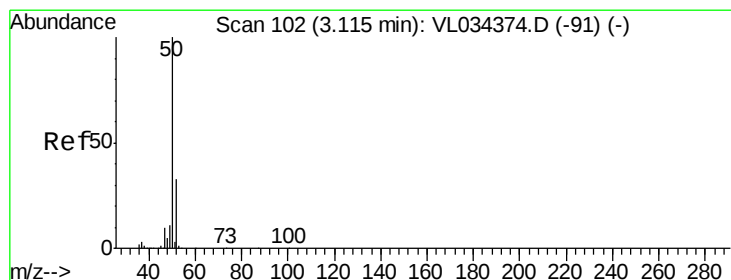
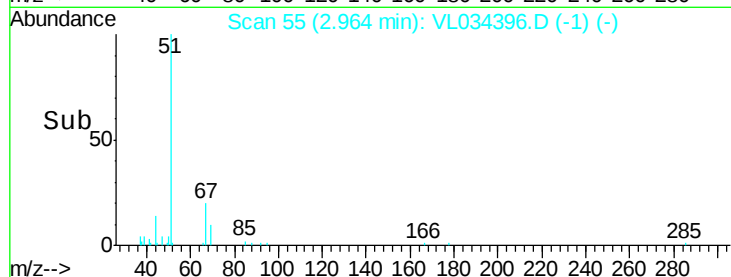
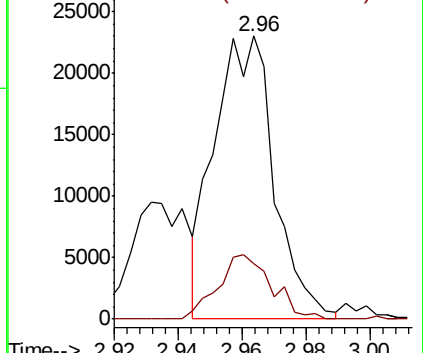
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.379 ppbv

RT: 3.12 min Scan# 103

Delta R.T. 0.00 min

Lab File: VL034396.D

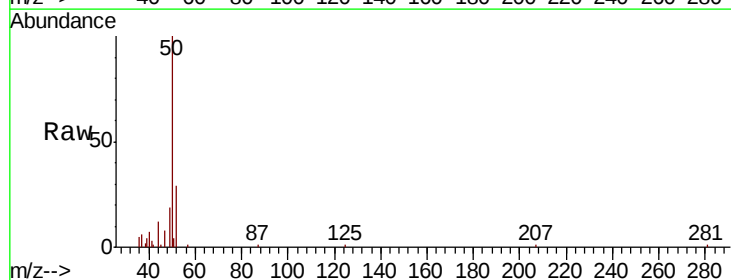
Acq: 20 Nov 2019 2:11

Tgt Ion: 50 Resp: 26118

Ion Ratio Lower Upper

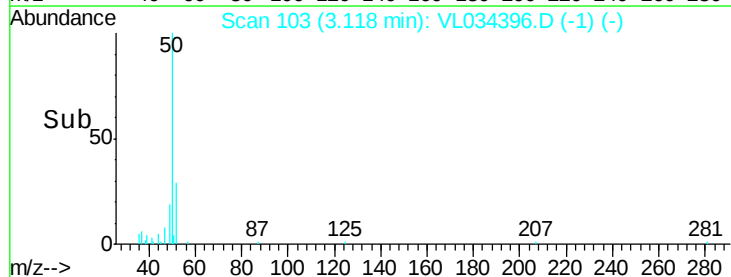
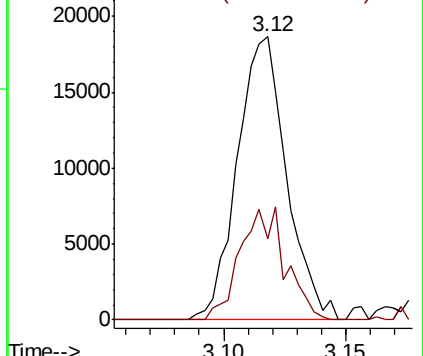
50 100

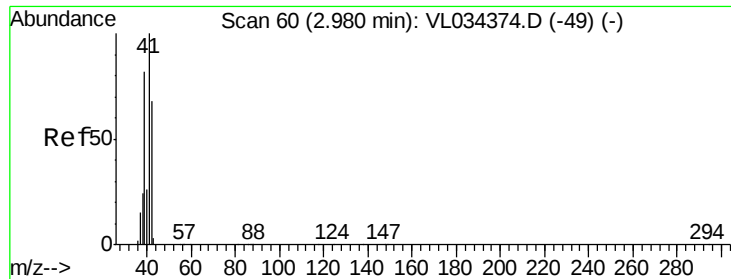
52 28.5 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.393 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 41 Resp: 20382

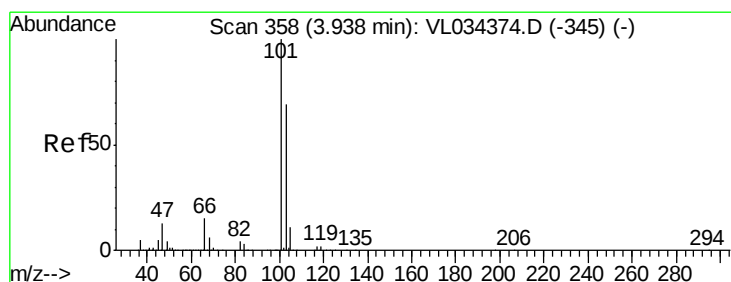
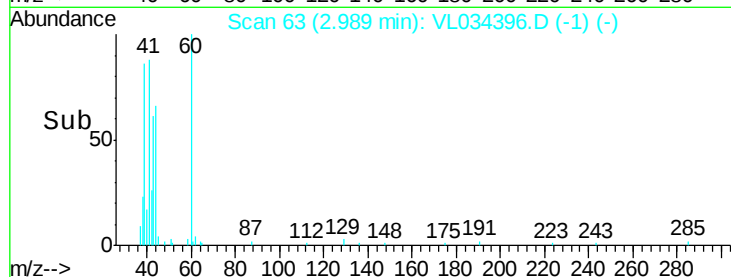
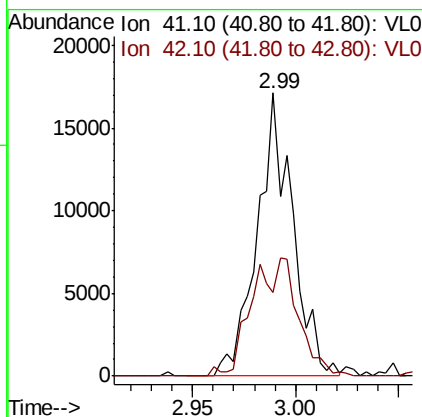
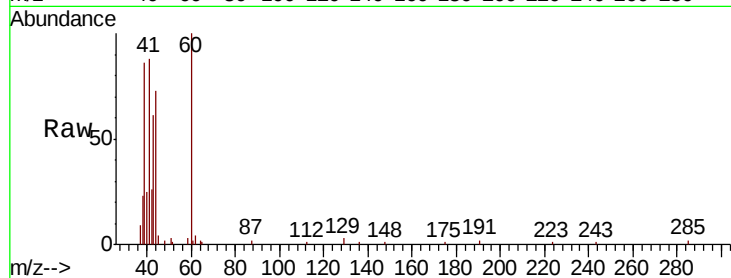
Ion Ratio Lower Upper

41 100

42 0.0 54.6 82.0#

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#11

Trichlorofluoromethane

Concen: 0.205 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.00 min

Lab File: VL034396.D

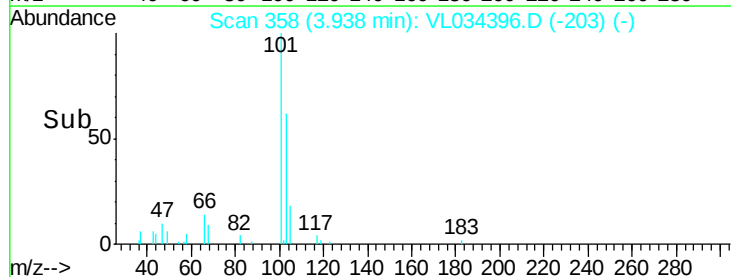
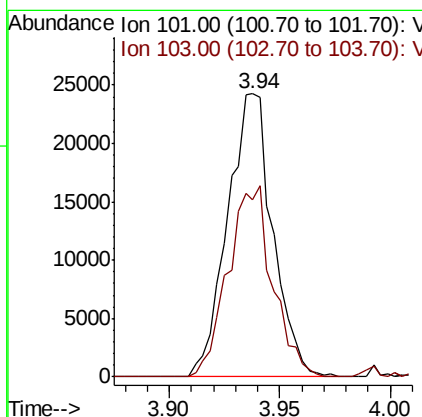
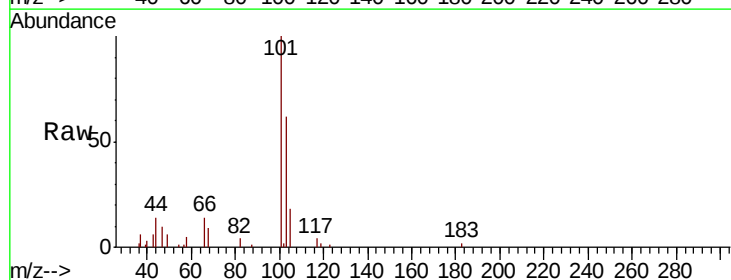
Acq: 20 Nov 2019 2:11

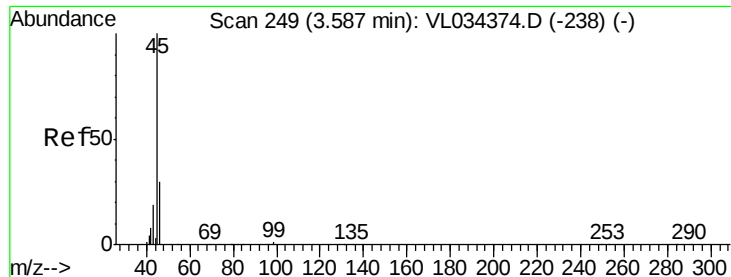
Tgt Ion: 101 Resp: 34590

Ion Ratio Lower Upper

101 100

103 62.4 55.4 83.0





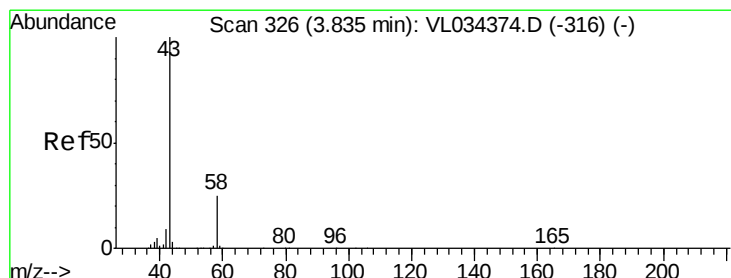
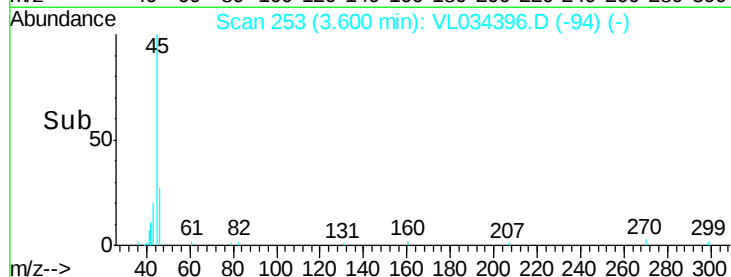
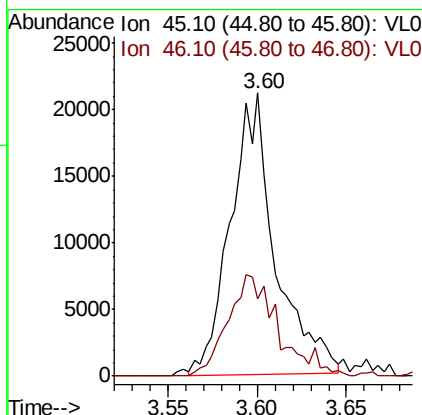
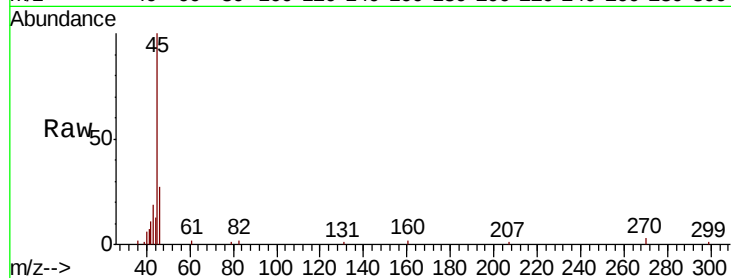
#13
Ethanol
Concen: 2.431 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.01 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	45	46	Ratio	Lower	Upper
Resp	36915				
Ion	100	40.6			
				13.8	55.4

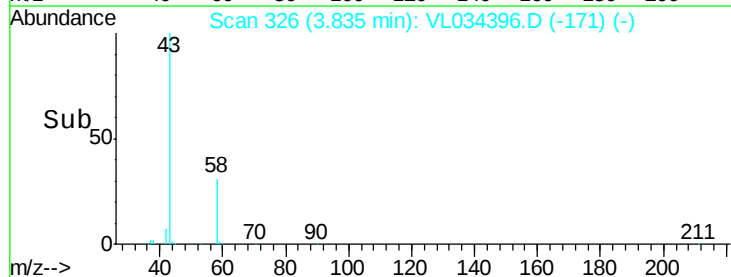
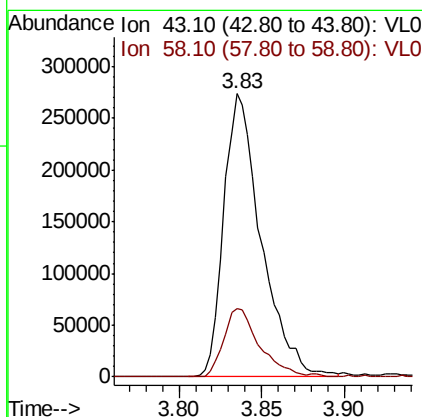
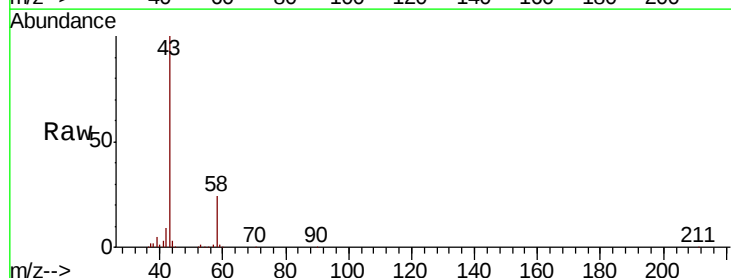
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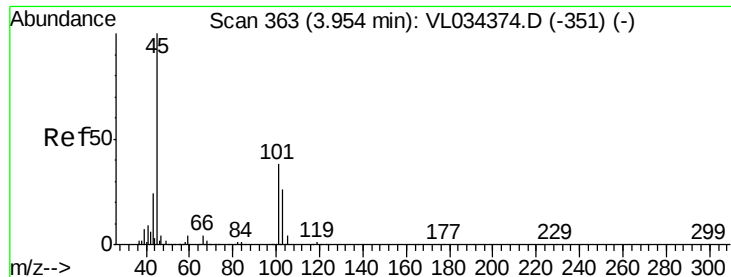
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#15
Acetone
Concen: 3.196 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Tgt Ion	43	58	Ratio	Lower	Upper
Resp	428357				
Ion	100	23.5			
				20.2	30.4





#19

Isopropyl Alcohol

Concen: 0.203 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Instrument :

MSVOA_L

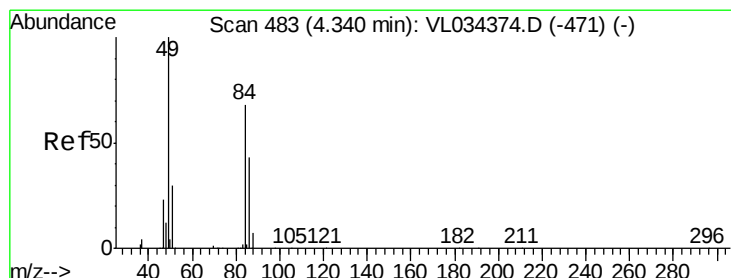
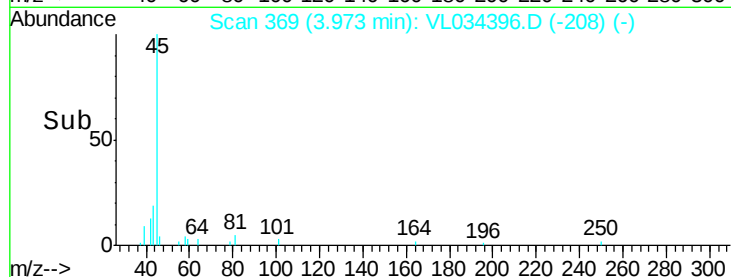
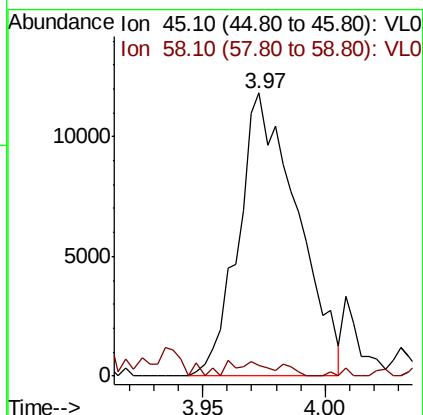
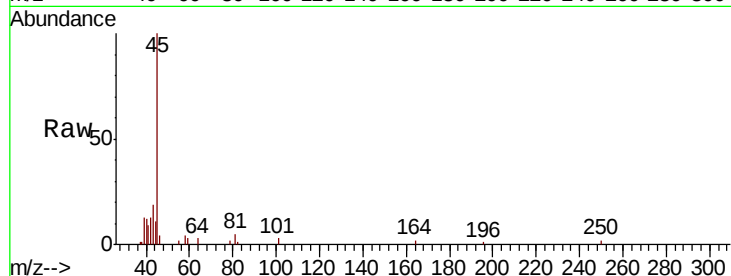
ClientSampled :

QA1

Tot Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.3	1.9#

Manual Integrations
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#20

Methylene Chloride

Concen: 0.860 ppbv m

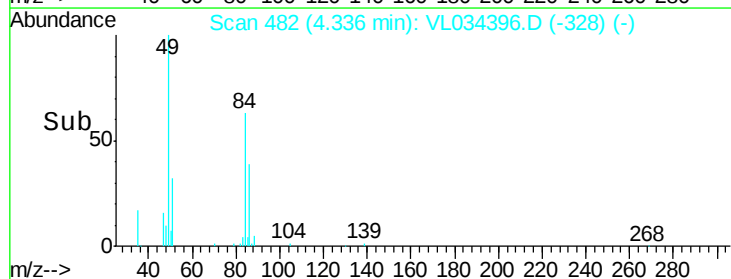
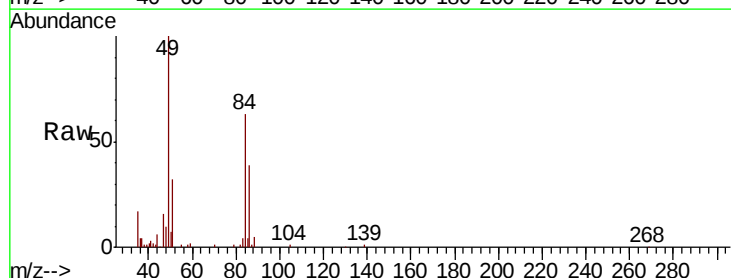
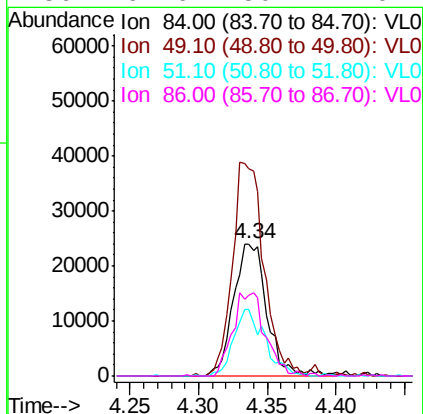
RT: 4.34 min Scan# 482

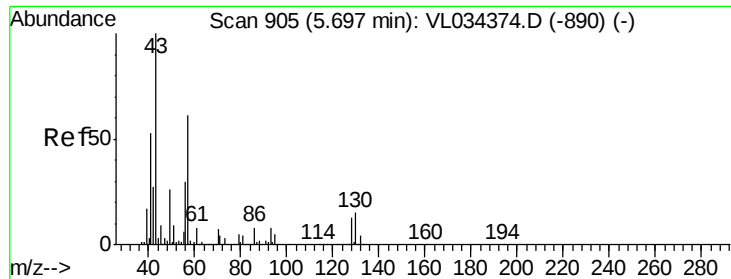
Delta R.T. -0.00 min

Lab File: VL034396.D

Acq: 20 Nov 2019 2:11

Tgt Ion	Ratio	Lower	Upper
84	100		
49	157.5	116.8	175.2
51	50.1	35.6	53.4
86	61.6	50.7	76.1





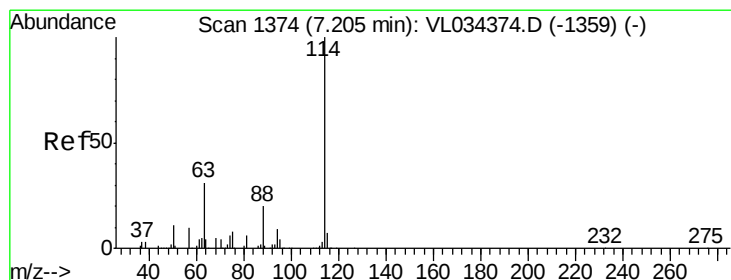
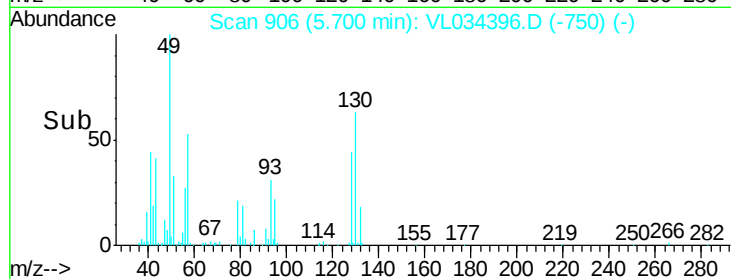
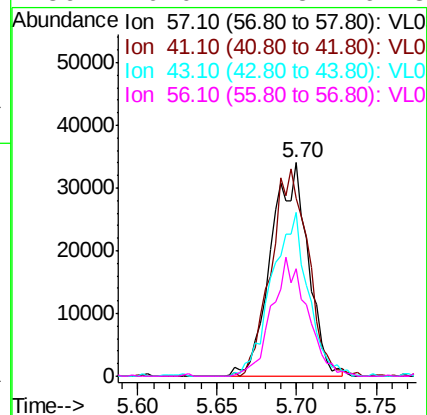
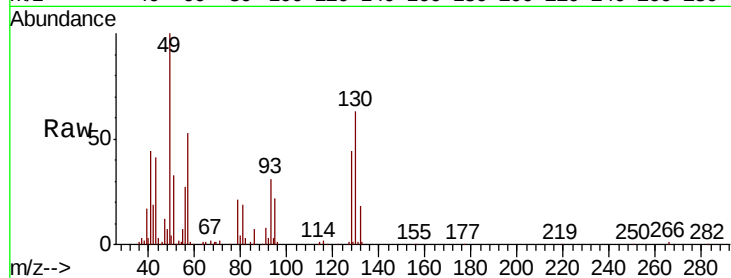
#26
Hexane
Concen: 0.532 ppbv m
RT: 5.70 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.0	112.4#
43	0.0	186.6	279.8#
56	0.0	41.5	62.3#

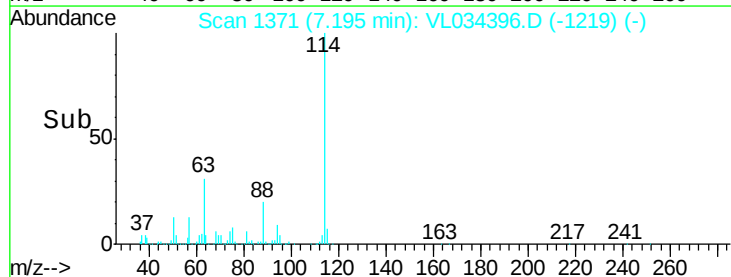
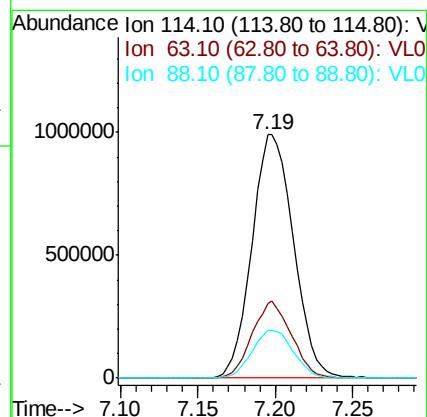
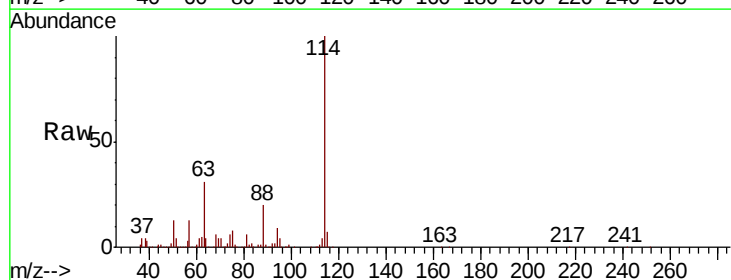
Manual Integrations
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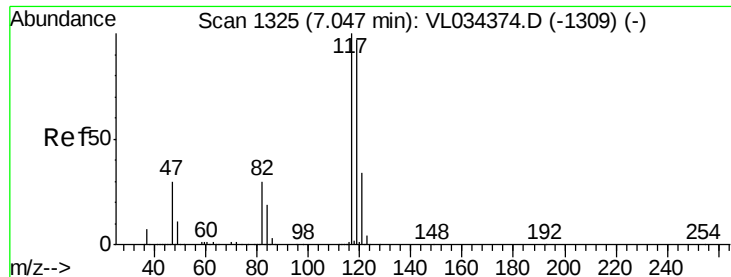
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. -0.01 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.2	24.2	36.4
88	19.7	15.9	23.9





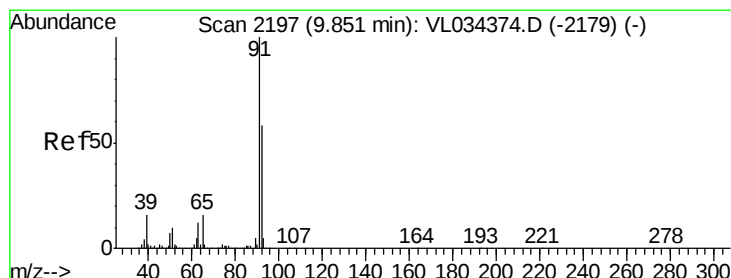
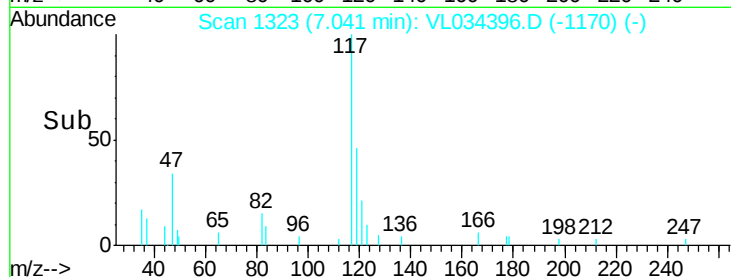
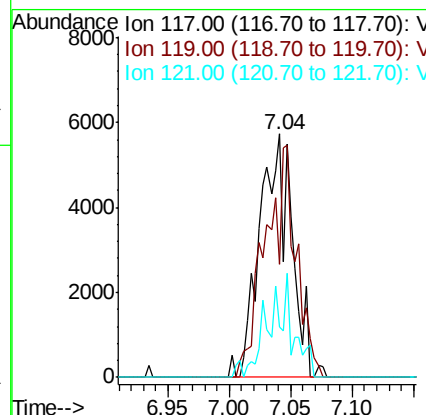
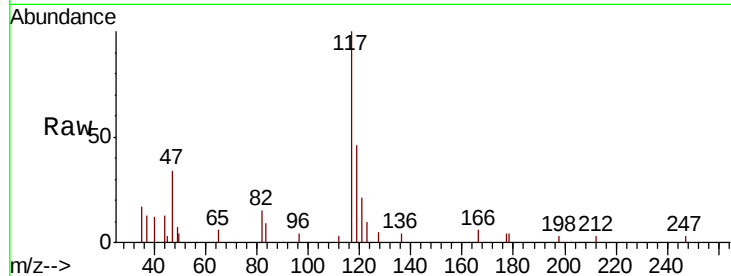
#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.04 min Scan# 1323
Delta R.T. -0.01 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
117	100		
119	46.3	77.3	115.9#
121	20.9	27.4	41.2#

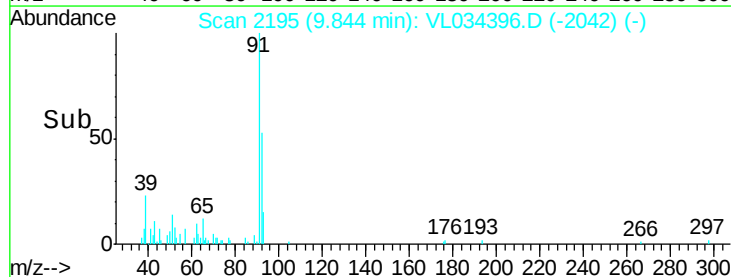
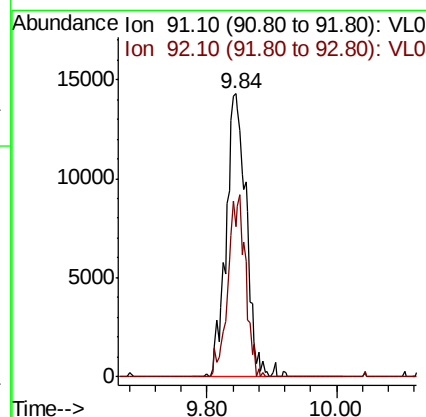
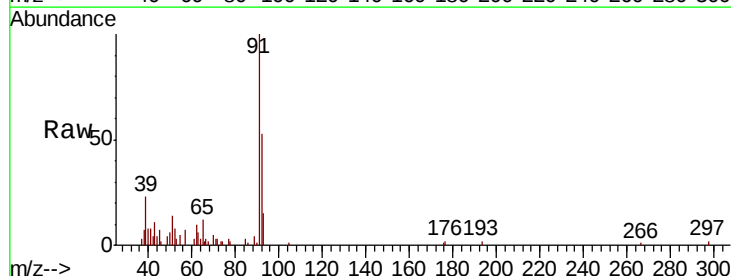
Manual Integrations
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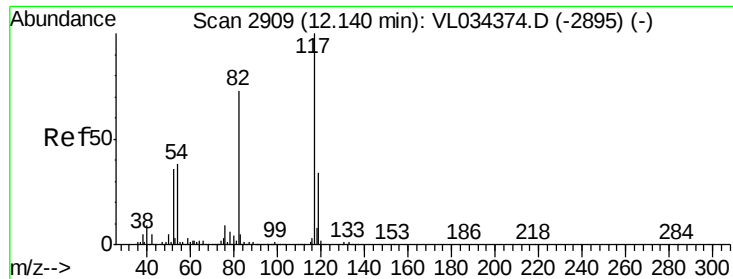
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#53
Toluene
Concen: 0.146 ppbv m
RT: 9.84 min Scan# 2195
Delta R.T. -0.01 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.1	47.9	71.9





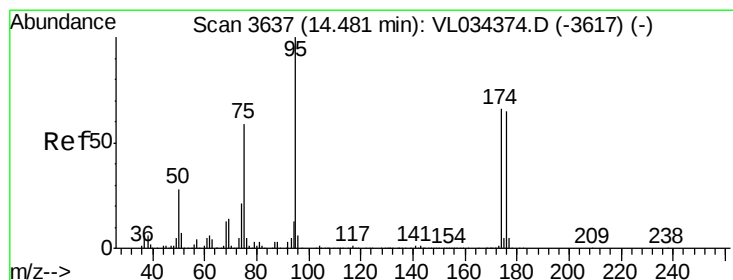
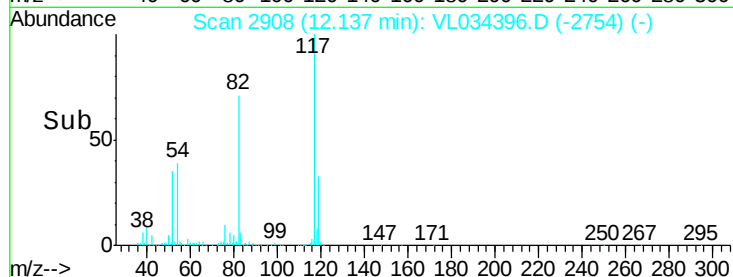
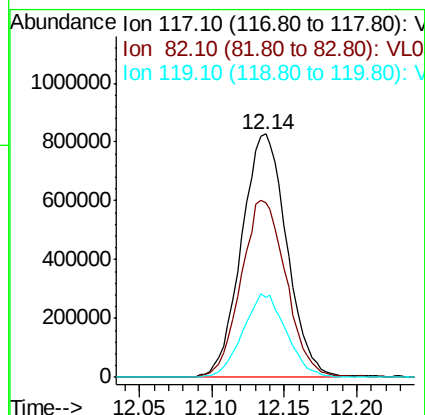
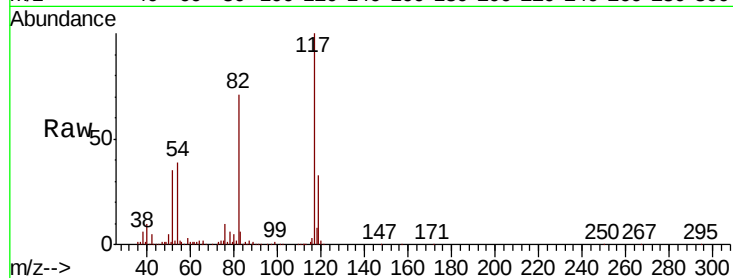
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.9	57.5	86.3
119	33.3	25.4	38.2

Manual Integrations
APPROVED

MMDadoda
11/20/2019 3:54:17 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.253 ppbv
RT: 14.47 min Scan# 3635
Delta R.T. -0.01 min
Lab File: VL034396.D
Acq: 20 Nov 2019 2:11

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.7	52.2	78.2
175	4.7	3.8	5.8

