

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034149.D
 Acq On : 10 Sep 2019 19:10
 Operator : SY/AP
 Sample : K4775-03DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:17:00 AM

Quant Time: Sep 11 03:44:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	722148	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1435832	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.17	117	1409013	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1193271	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	114862	2.550	ppbv	92
10) Heptane	8.18	43	49026	0.419	ppbv	94
13) Ethanol	3.60	45	27566m	3.124	ppbv	
15) Acetone	3.84	43	2926353	33.623	ppbv	94
17) tert-Butyl alcohol	4.31	59	49817	0.788	ppbv	96
19) Isopropyl Alcohol	3.98	45	73708m	1.255	ppbv	
26) Hexane	5.72	57	63403	0.746	ppbv #	39
27) Carbon Disulfide	4.57	76	20099m	0.262	ppbv	
30) Cyclohexane	7.18	84	15371	0.250	ppbv #	82
32) 1,1,1-Trichloroethane	6.56	97	109062	1.008	ppbv	100
34) 2-Butanone	5.27	43	310638	2.250	ppbv	99
36) Benzene	6.94	78	27781m	0.169	ppbv	
38) Trichloroethene	7.89	130	2932m	0.048	ppbv	
51) 2-Hexanone	10.21	43	83595	0.459	ppbv #	100
52) Tetrachloroethene	11.30	164	379677	6.561	ppbv	95
53) Toluene	9.87	91	90168	0.497	ppbv	98
58) Ethyl Benzene	12.79	91	32563m	0.141	ppbv	
59) m/p-Xylene	13.04	91	94650m	0.502	ppbv	
60) o-Xylene	13.77	91	38855m	0.207	ppbv	
74) 1,2,4-Trimethylbenzene	16.85	105	45785m	0.216	ppbv	

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

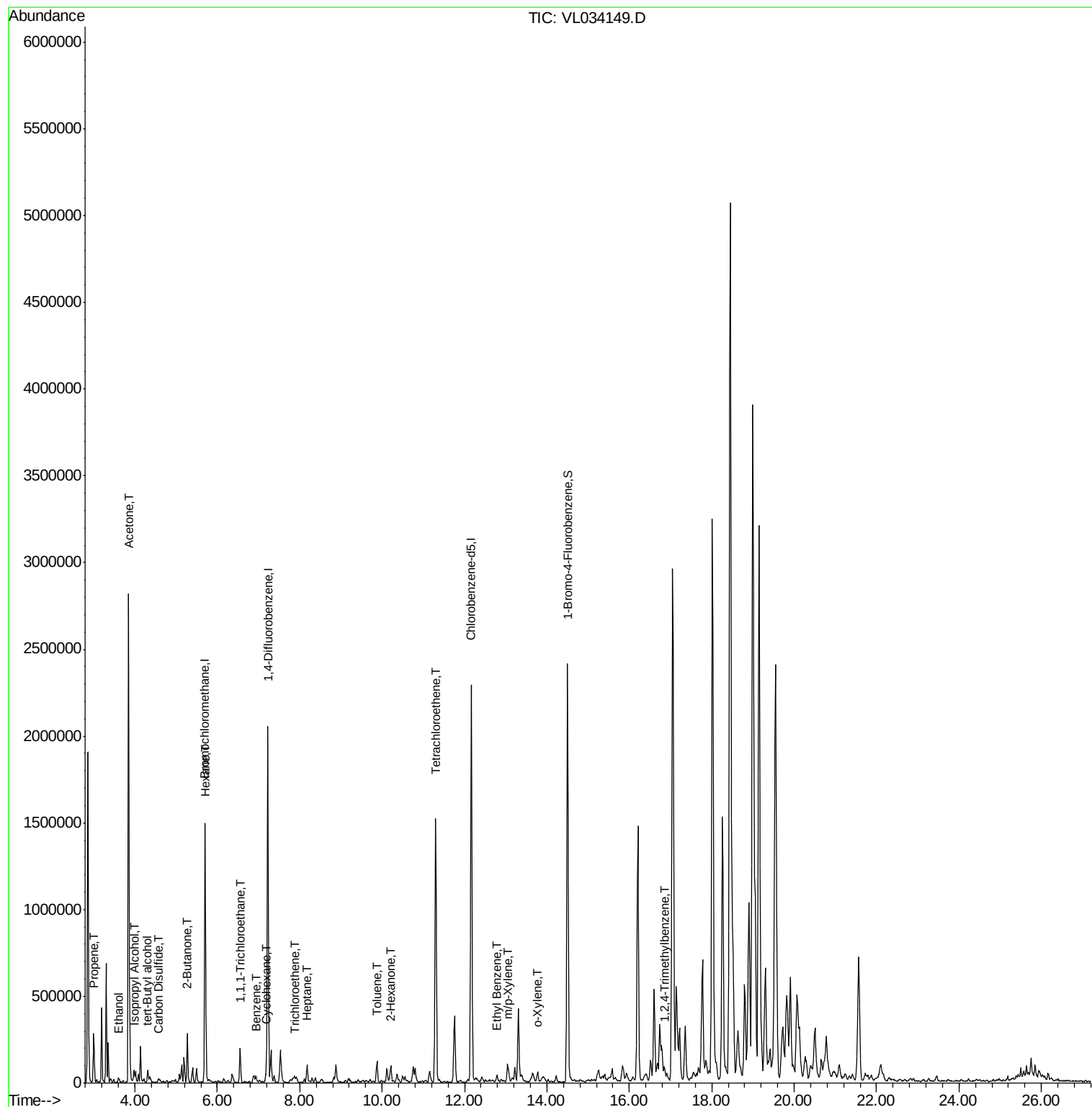
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
Data File : VL034149.D
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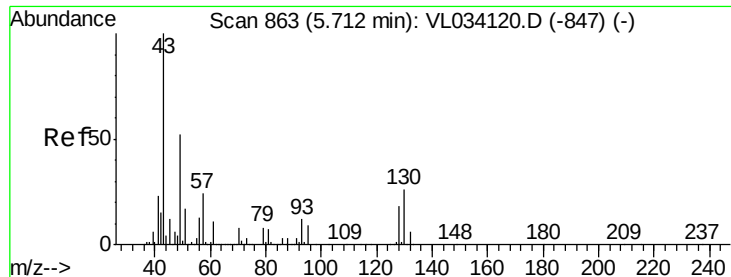
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Sep 11 03:44:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





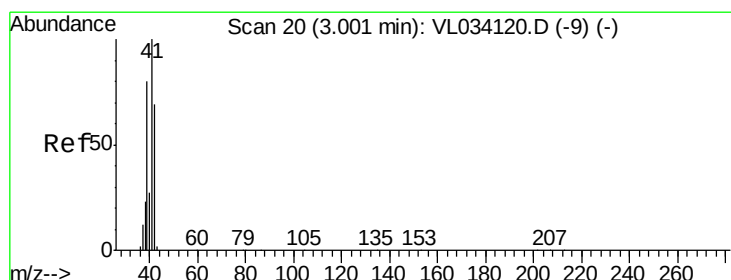
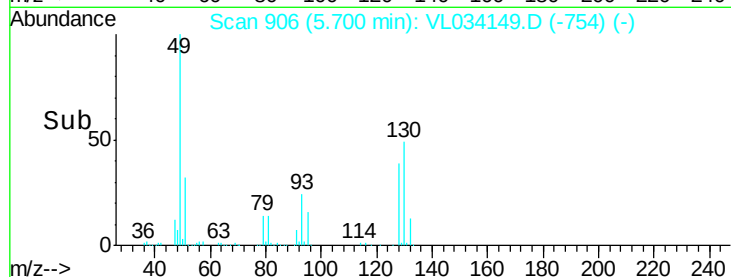
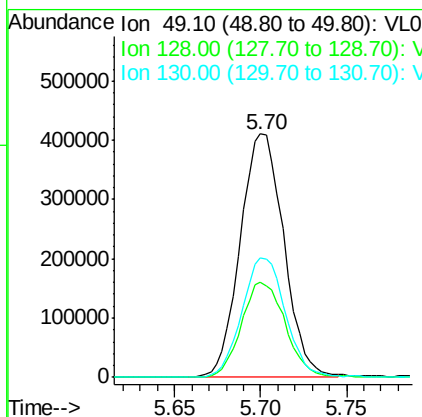
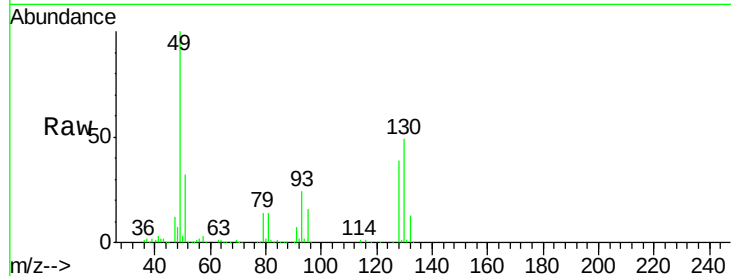
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.70 min Scan# 906
 Delta R.T. -0.01 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Instrument :
 MSVOA_L
 ClientSampled :
 SV3DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	39.9	18.4	55.0
130	49.6	23.5	70.6

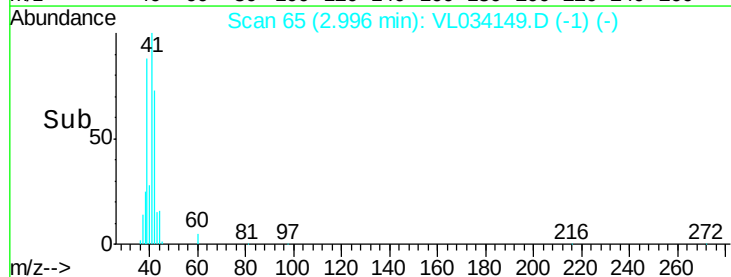
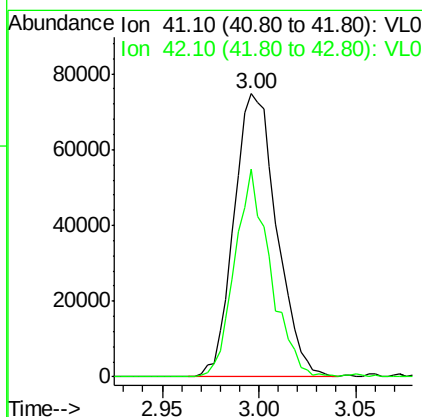
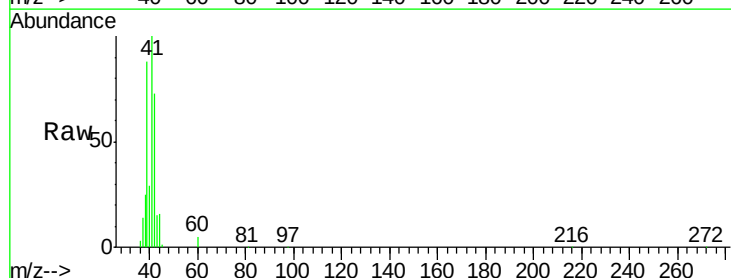
Manual Integrations
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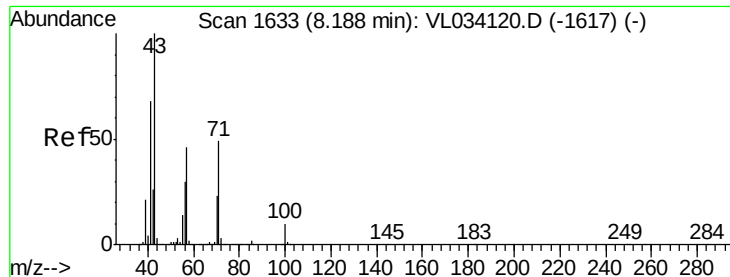
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#9
 Propene
 Concen: 2.550 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. -0.01 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Tgt Ion	Ratio	Lower	Upper
41	100		
42	61.6	54.6	81.8





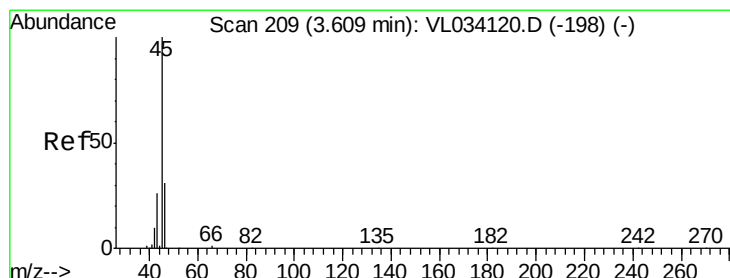
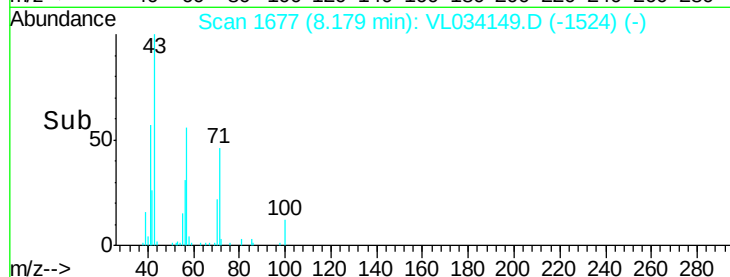
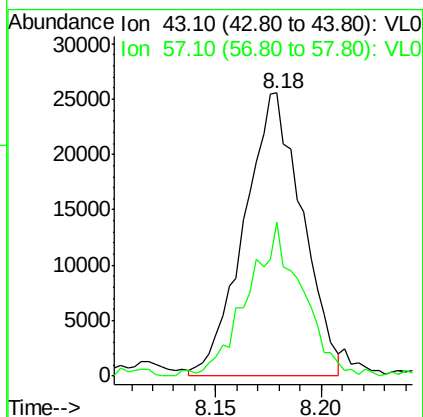
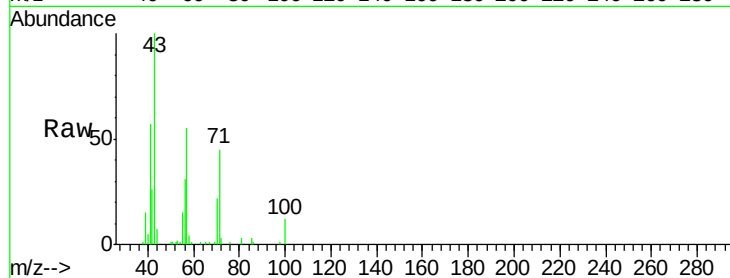
#10
Heptane
Concen: 0.419 ppbv
RT: 8.18 min Scan# 1677
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Instrument :
MSVOA_L
ClientSampled :
SV3DL

Tot Ion: 43 Resp: 49026
Ion Ratio Lower Upper
43 100
57 51.7 38.1 57.1

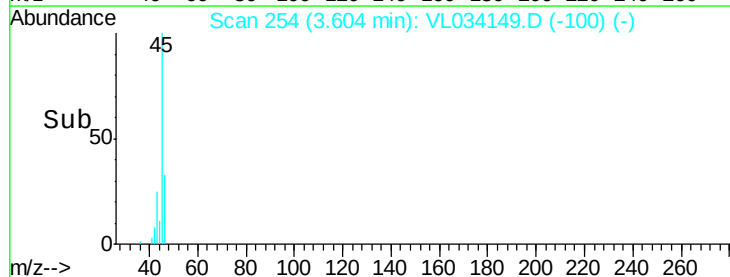
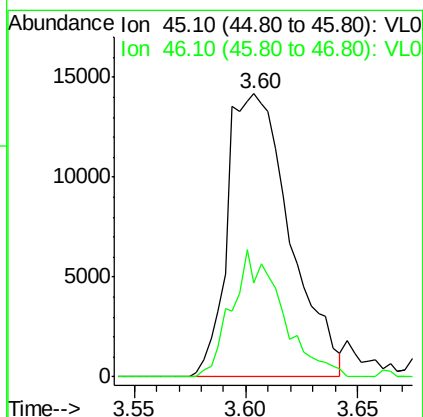
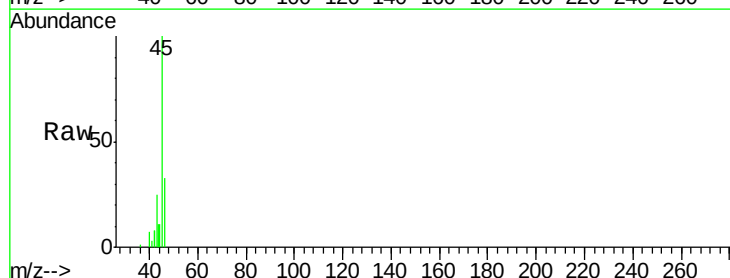
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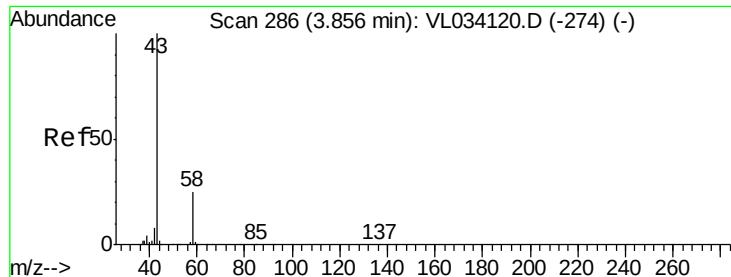
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#13
Ethanol
Concen: 3.124 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Tgt Ion: 45 Resp: 27566
Ion Ratio Lower Upper
45 100
46 36.1 15.0 60.0





#15

Acetone

Concen: 33.623 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Tot Ion: 43 Resp: 2926353

Ion Ratio Lower Upper

43 100

58 28.5 20.6 30.8

Instrument :

MSVOA_L

ClientSampleId :

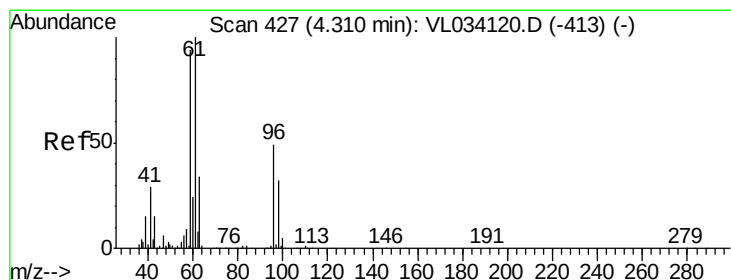
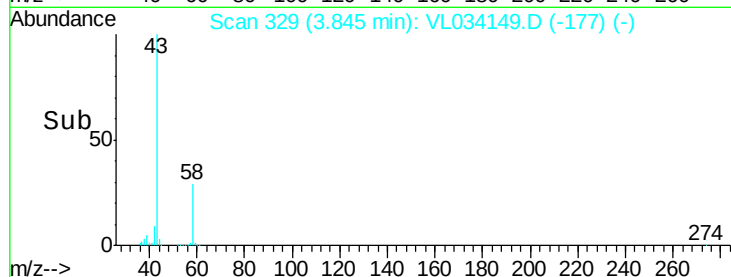
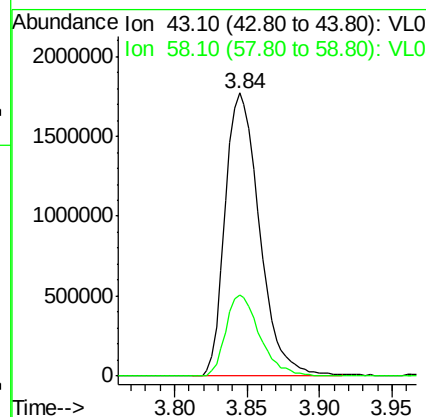
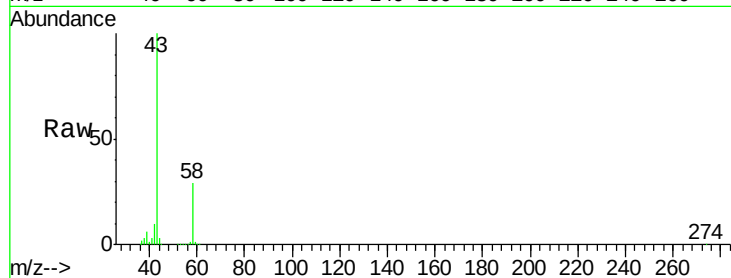
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#17

tert-Butyl alcohol

Concen: 0.788 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.00 min

Lab File: VL034149.D

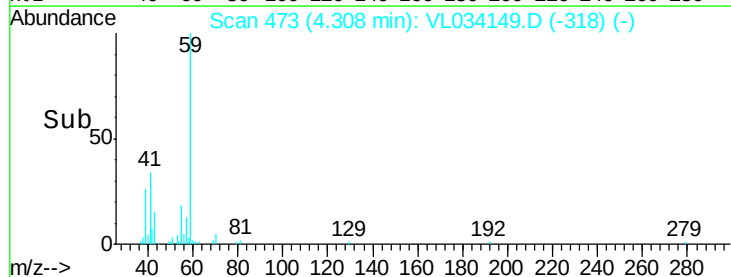
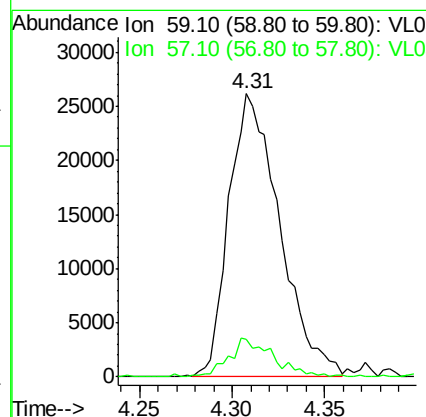
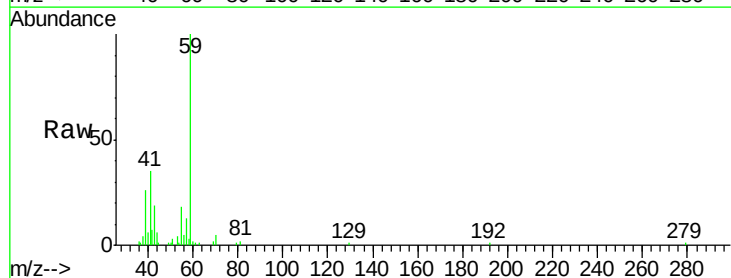
Acq: 10 Sep 2019 19:10

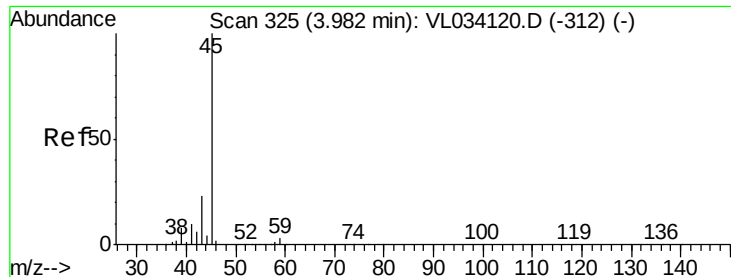
Tgt Ion: 59 Resp: 49817

Ion Ratio Lower Upper

59 100

57 12.1 8.6 12.8





#19

Isopropyl Alcohol

Concen: 1.255 ppbv m

RT: 3.98 min Scan# 372

Delta R.T. 0.00 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tot Ion: 45 Resp: 73708

Ion Ratio Lower Upper

45 100

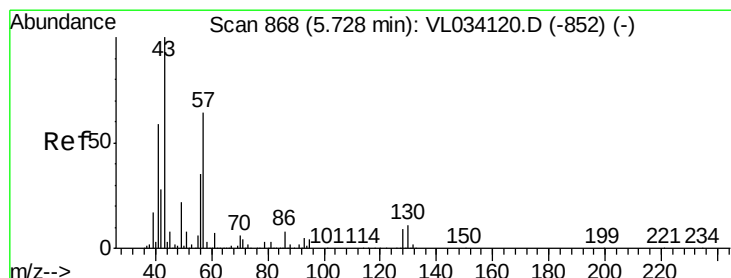
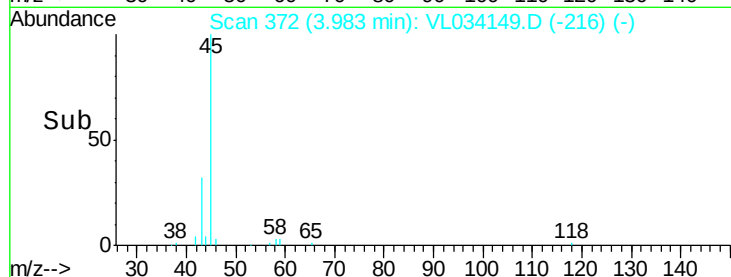
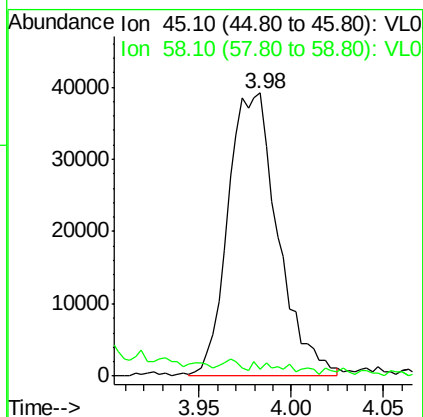
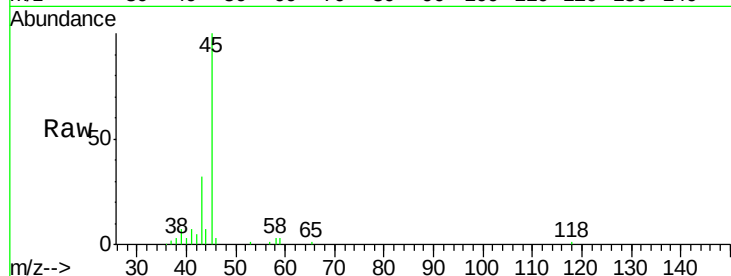
58 0.0 1.0 1.6#

Manual Integrations

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#26

Hexane

Concen: 0.746 ppbv

RT: 5.72 min Scan# 911

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Tgt Ion: 57 Resp: 63403

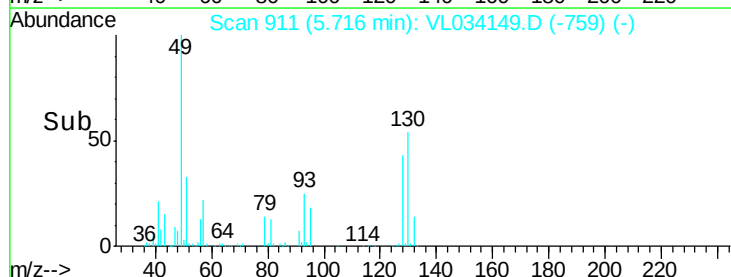
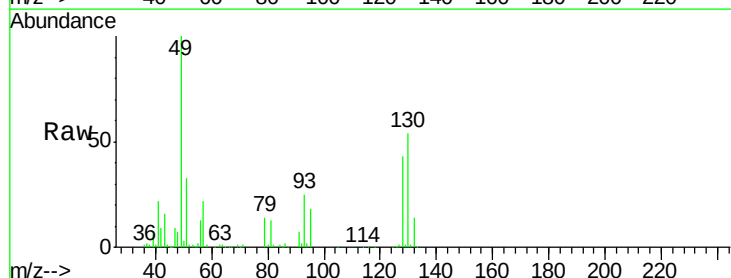
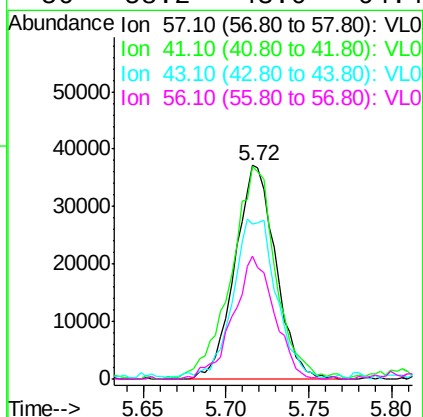
Ion Ratio Lower Upper

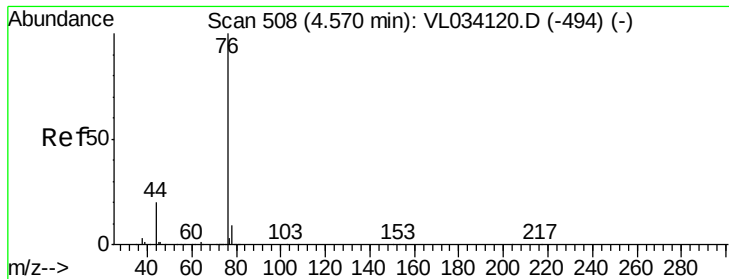
57 100

41 109.2 76.6 115.0

43 79.7 189.2 283.8#

56 58.2 43.0 64.4





#27

Carbon Disulfide

Concen: 0.262 ppbv m

RT: 4.57 min Scan# 554

Delta R.T. -0.00 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

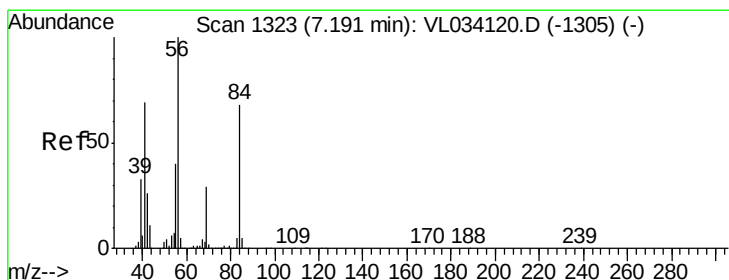
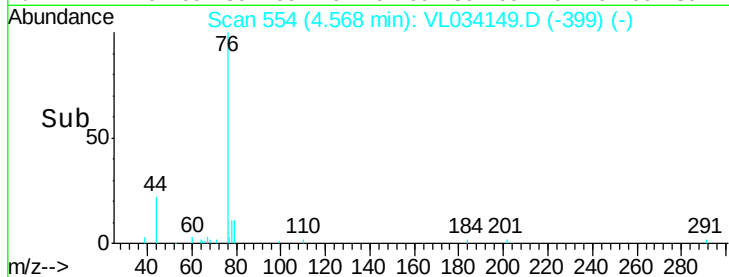
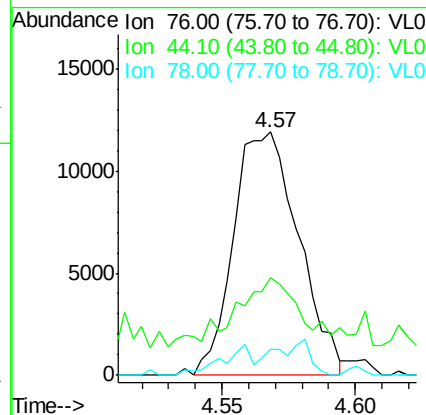
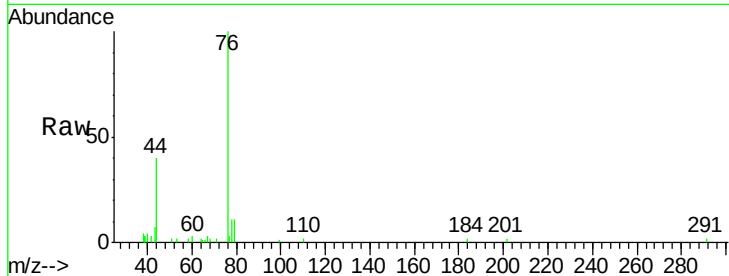
ClientSampleId :

SV3DL

Tot Ion:	76	Resp:	20099
Ion	Ratio	Lower	Upper
76	100		
44	37.7	17.6	26.4#
78	14.9	7.3	10.9#

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#30

Cyclohexane

Concen: 0.250 ppbv

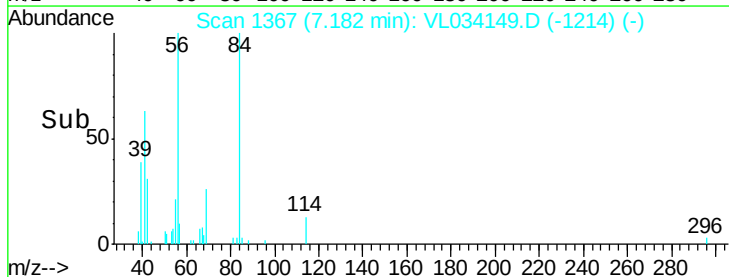
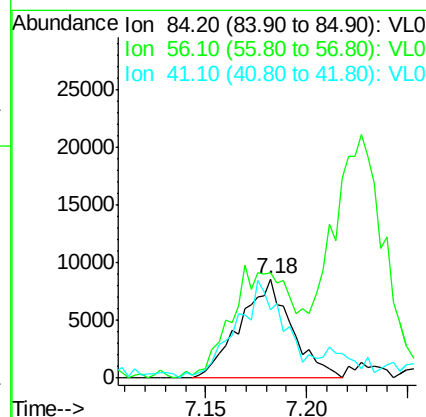
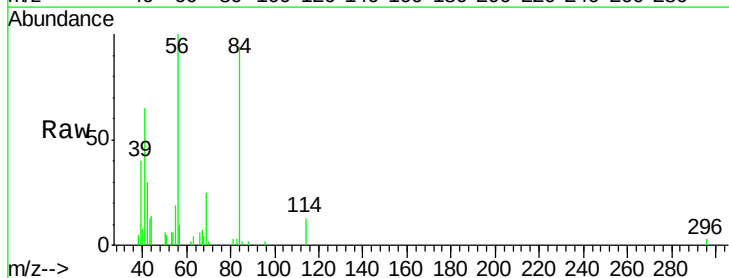
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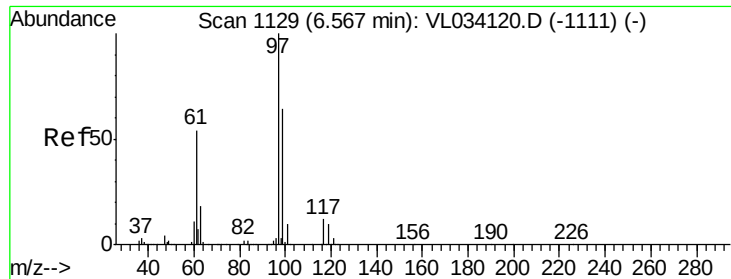
Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Tgt Ion:	84	Resp:	15371
Ion	Ratio	Lower	Upper
84	100		
56	132.8	122.6	183.8
41	119.9	79.1	118.7#





#32

1,1,1-Trichloroethane

Concen: 1.008 ppbv

RT: 6.56 min Scan# 1172

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

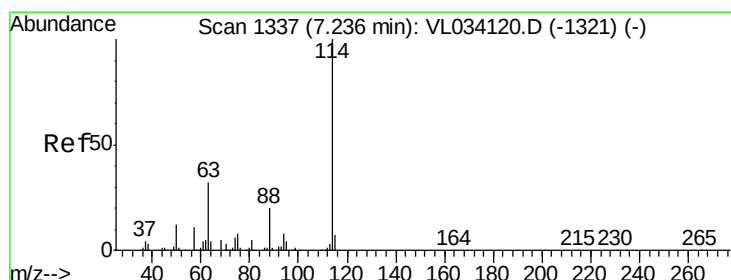
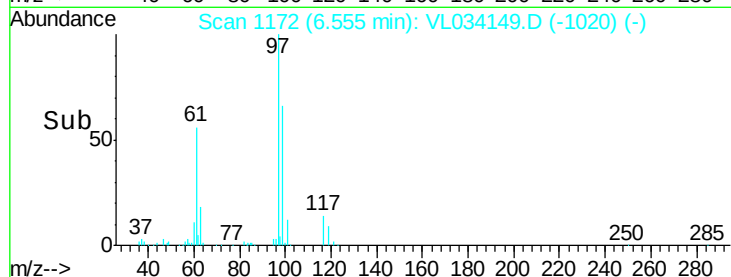
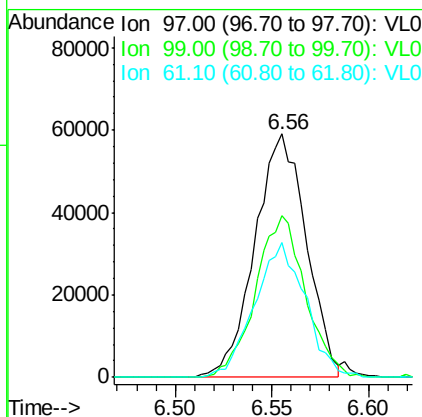
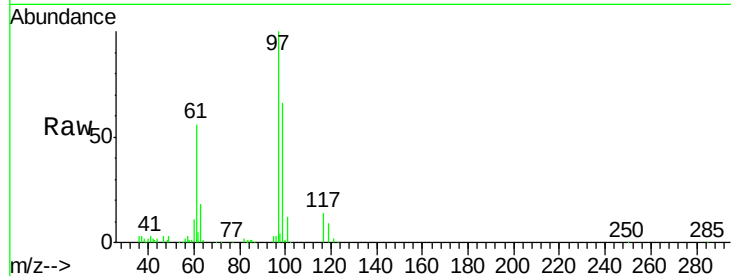
ClientSampleId :

SV3DL

Tot Ion:	97	Resp:	109062
Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.7	77.5
61	54.8	44.0	66.0

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

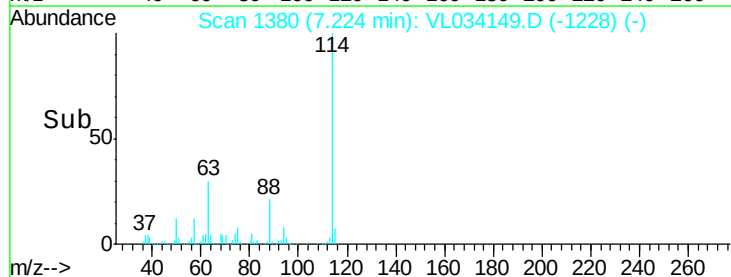
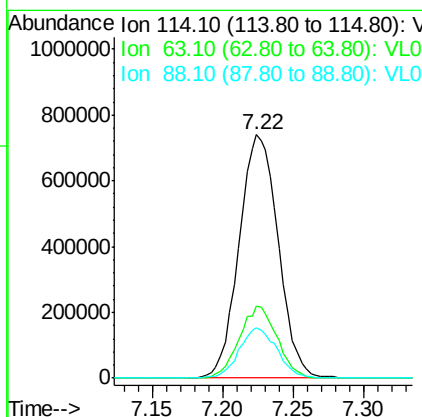
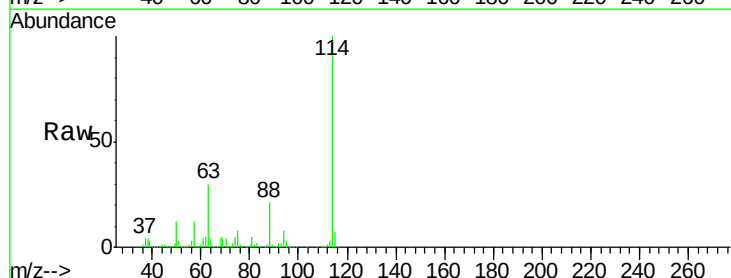
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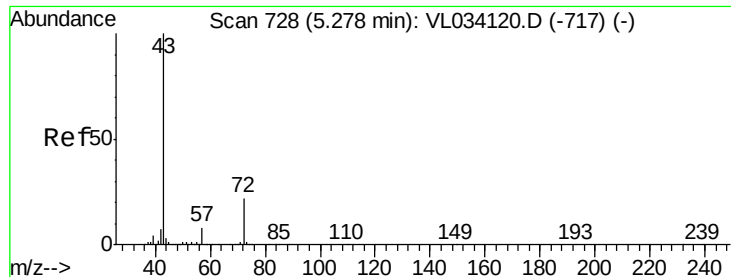
Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Tgt Ion:	114	Resp:	1435832
Ion	Ratio	Lower	Upper
114	100		
63	28.7	25.5	38.3
88	19.9	16.8	25.2





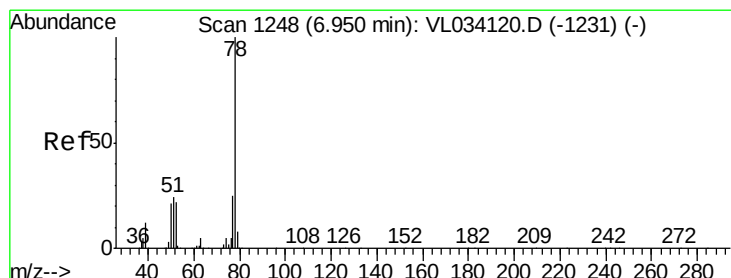
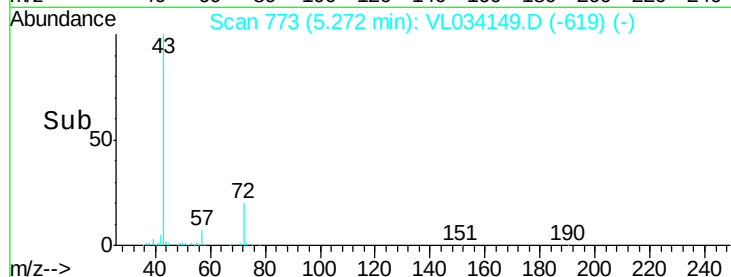
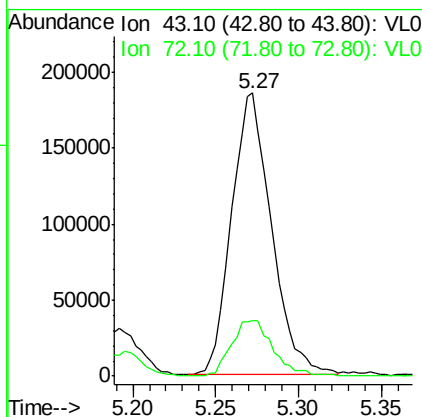
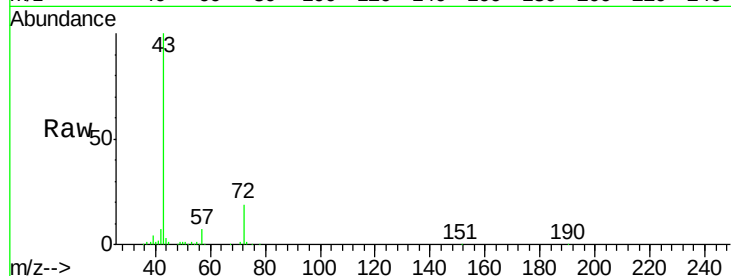
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 2-Butanone
 Concen: 2.250 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. -0.01 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	21.0	16.5	24.7

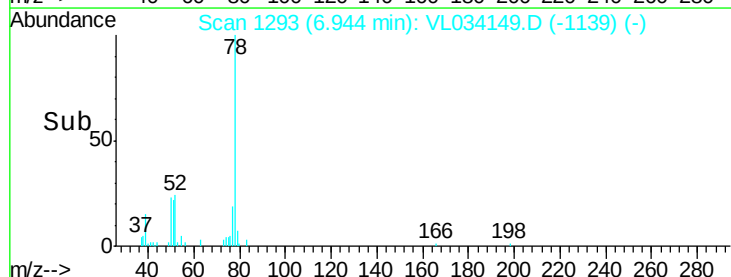
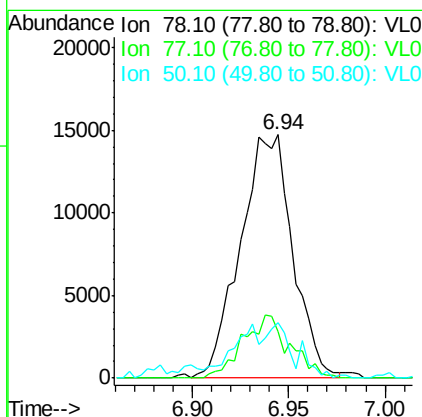
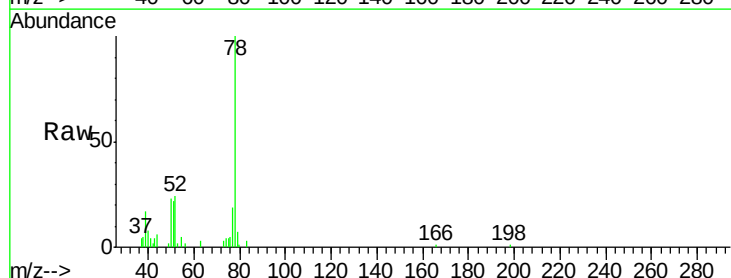
Manual Integrations
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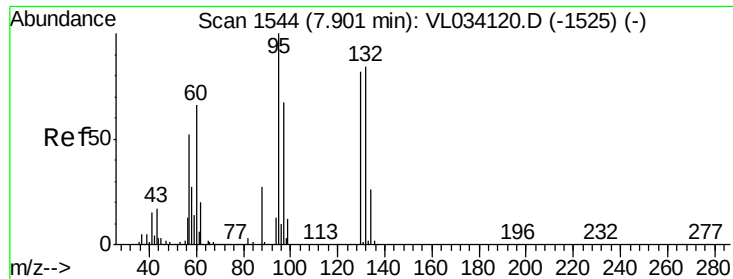
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 9/12/2019 5:17:00 AM



#36
 Benzene
 Concen: 0.169 ppbv m
 RT: 6.94 min Scan# 1293
 Delta R.T. -0.01 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.2	20.3	30.5#
50	22.8	16.9	25.3





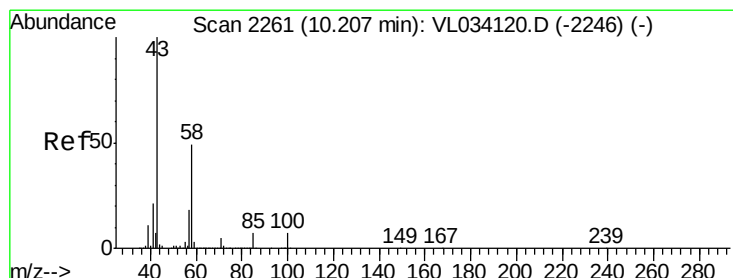
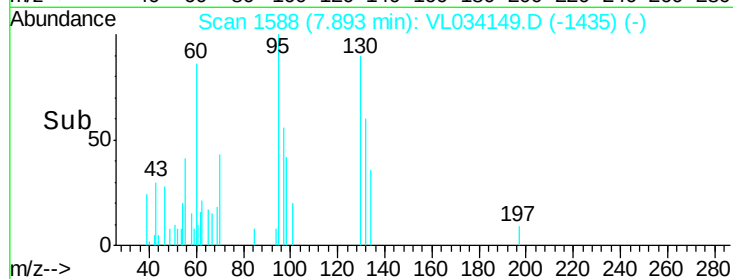
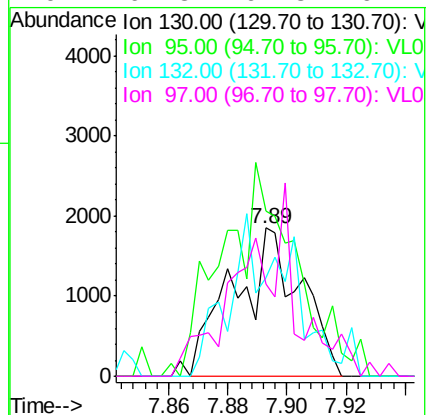
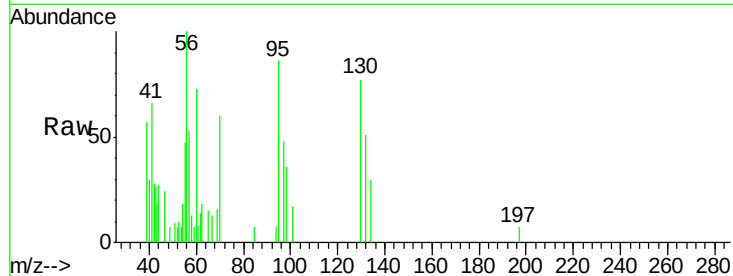
#38
 Trichloroethene
 Concen: 0.048 ppbv m
 RT: 7.89 min Scan# 1588
 Delta R.T. -0.01 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Instrument :
 MSVOA_L
 ClientSampled :
 SV3DL

Tot Ion	Ratio	Resp	Lower	Upper
130	100	2932		
95	111.7		97.2	145.8
132	66.7		81.4	122.2#
97	62.3		64.8	97.2#

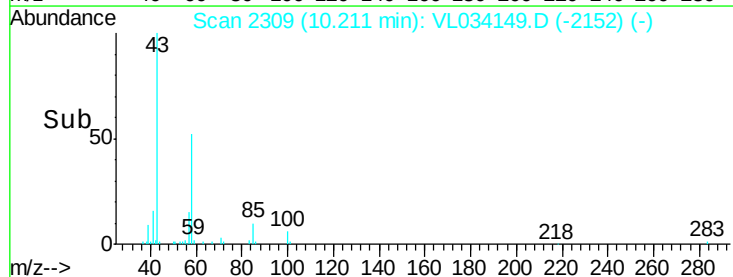
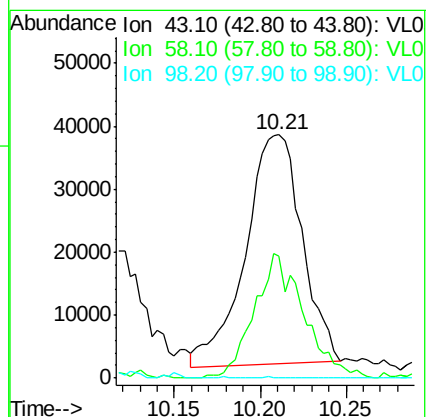
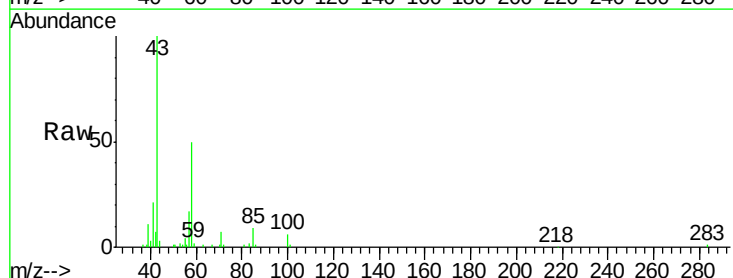
Manual Integrations
 APPROVED

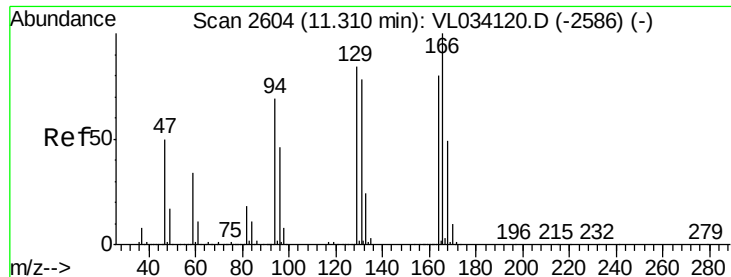
MMDadoda
 9/12/2019 5:17:00 AM



#51
 2-Hexanone
 Concen: 0.459 ppbv
 RT: 10.21 min Scan# 2309
 Delta R.T. 0.00 min
 Lab File: VL034149.D
 Acq: 10 Sep 2019 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	83595		
58	47.5		38.2	57.2
98	0.0		0.1	0.1#





#52

Tetrachloroethene

Concen: 6.561 ppbv

RT: 11.30 min Scan# 2648

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

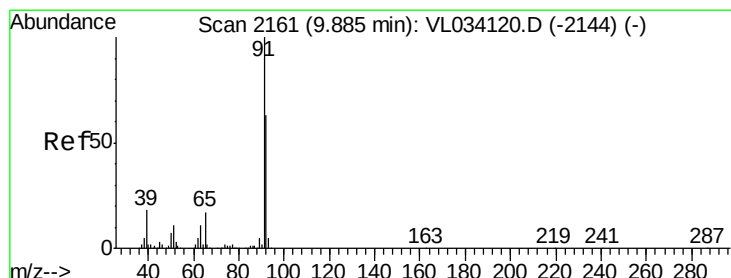
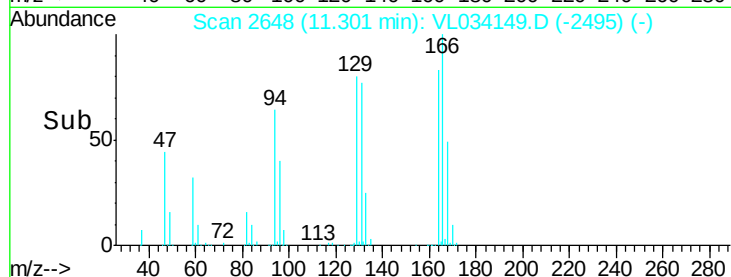
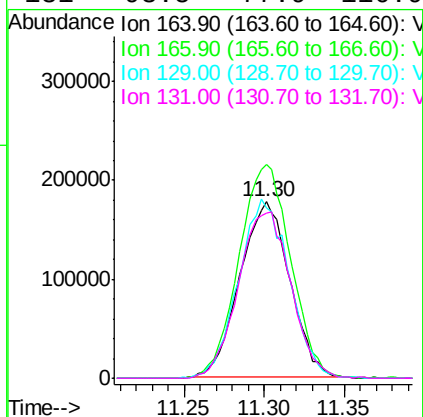
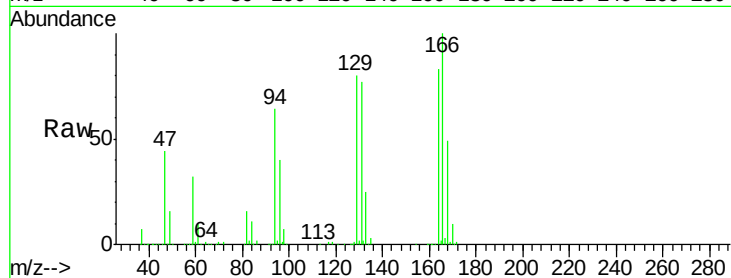
ClientSampleId :

SV3DL

Tot Ion:	164	Resp:	379677
Ion Ratio	Lower	Upper	
164	100		
166	121.3	99.5	149.3
129	96.4	83.6	125.4
131	93.5	77.9	116.9

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9/12/2019 5:17:00 AM



#53

Toluene

Concen: 0.497 ppbv

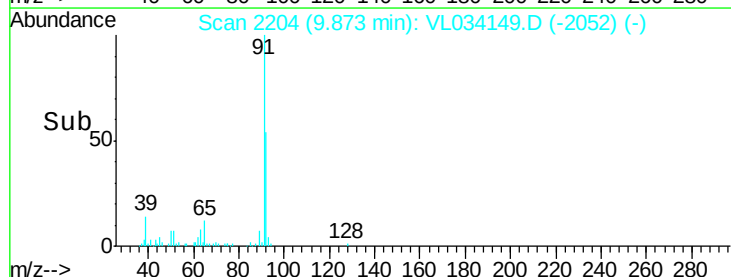
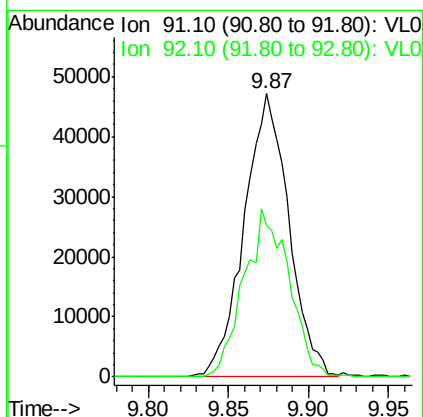
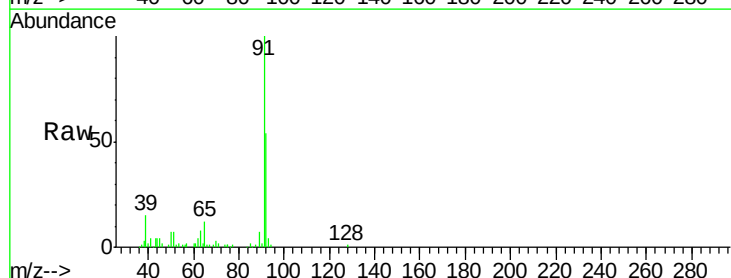
RT: 9.87 min Scan# 2204

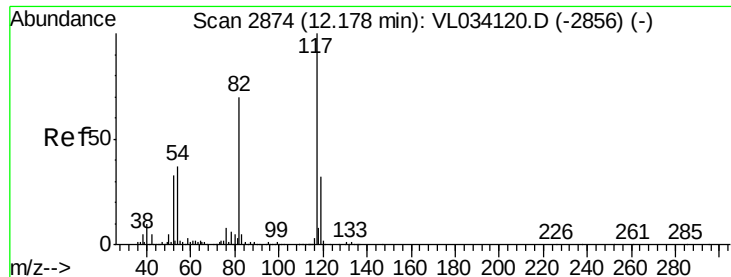
Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Tgt Ion:	91	Resp:	90168
Ion Ratio	Lower	Upper	
91	100		
92	60.0	49.3	73.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tot Ion:117 Resp: 1409013

Ion Ratio Lower Upper

117 100

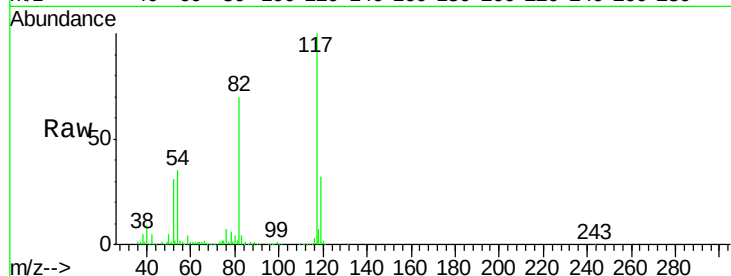
82 72.7 55.8 83.6

119 32.8 43.1 64.7#

Manual Integrations
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MMDadoda

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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

800000

600000

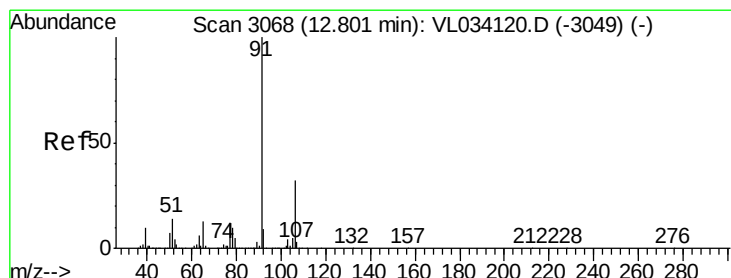
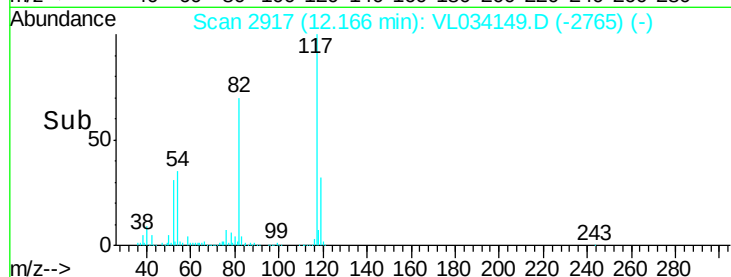
400000

200000

0

12.10 12.20

Time-->



#58

Ethyl Benzene

Concen: 0.141 ppbv m

RT: 12.79 min Scan# 3112

Delta R.T. -0.01 min

Lab File: VL034149.D

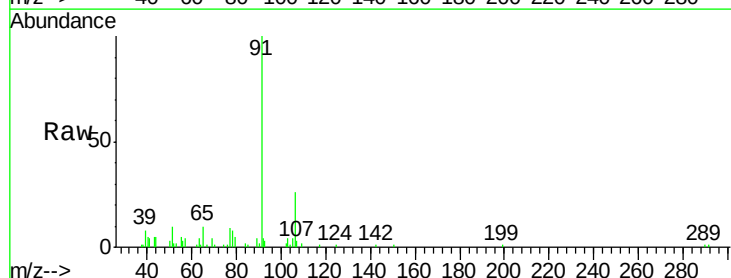
Acq: 10 Sep 2019 19:10

Tgt Ion: 91 Resp: 32563

Ion Ratio Lower Upper

91 100

106 26.3 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

20000

15000

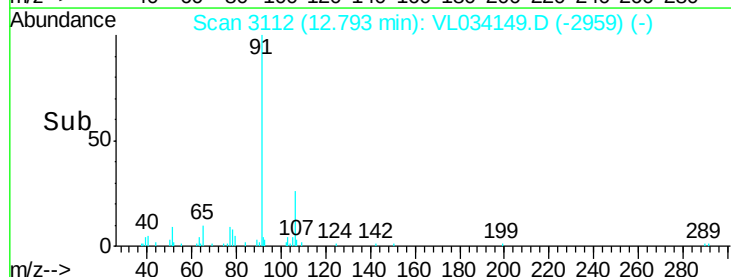
10000

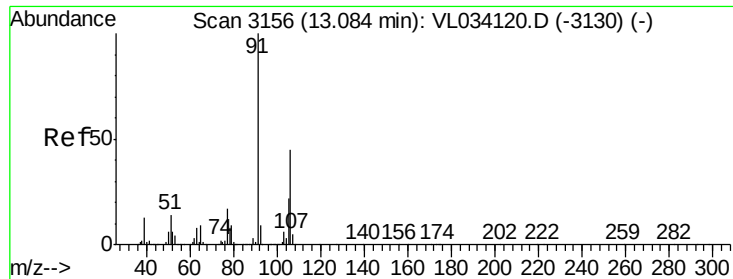
5000

0

12.70 12.75 12.80 12.85

Time-->





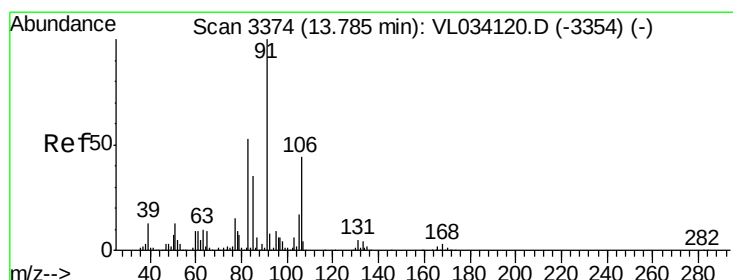
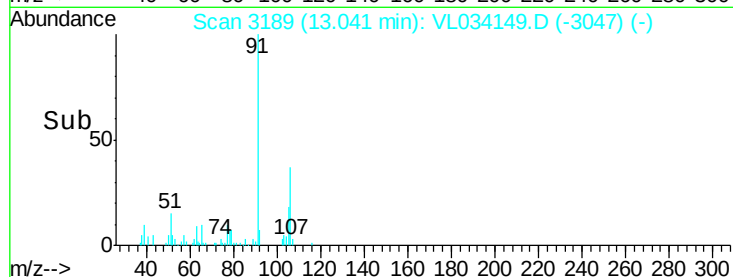
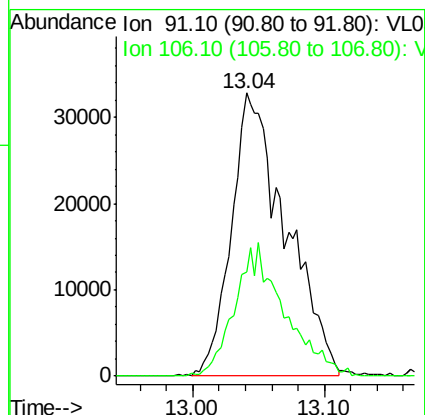
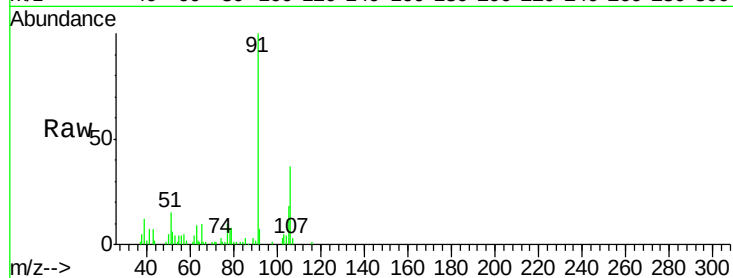
#59
m/p-Xylene
Concen: 0.502 ppbv m
RT: 13.04 min Scan# 3189
Delta R.T. -0.04 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Instrument :
MSVOA_L
ClientSampled :
SV3DL

Tot Ion: 91 Resp: 94650
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

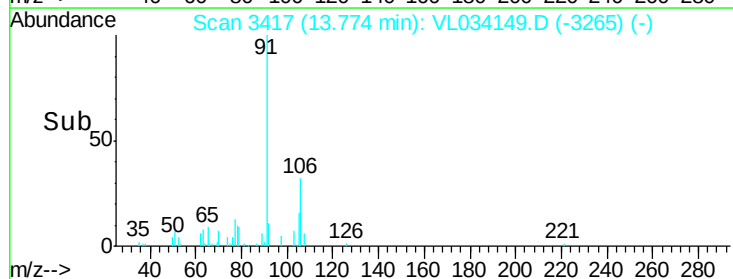
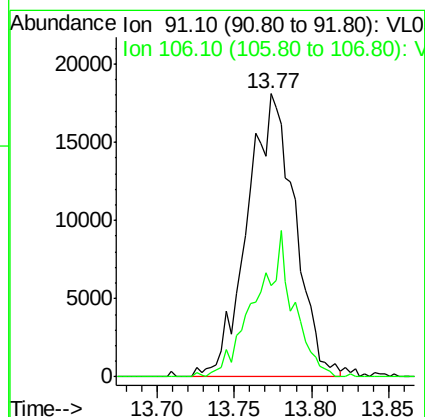
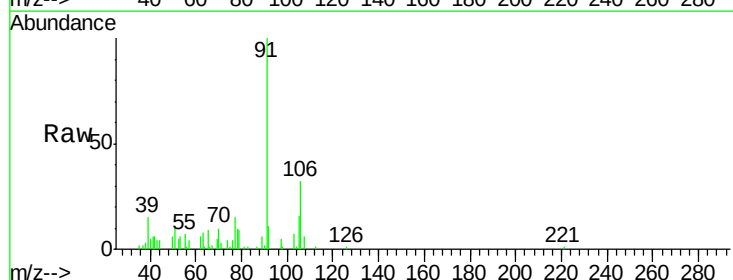
Manual Integrations
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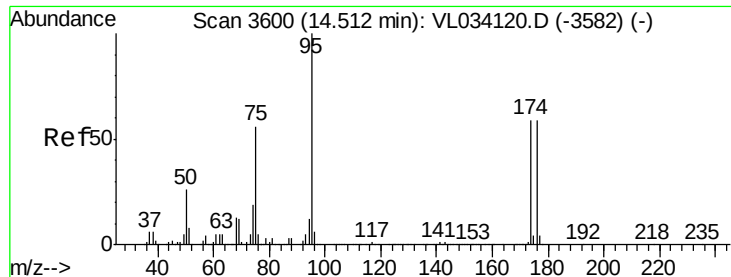
MMDadoda
9/12/2019 5:17:00 AM



#60
o-Xylene
Concen: 0.207 ppbv m
RT: 13.77 min Scan# 3417
Delta R.T. -0.01 min
Lab File: VL034149.D
Acq: 10 Sep 2019 19:10

Tgt Ion: 91 Resp: 38855
Ion Ratio Lower Upper
91 100
106 40.9 21.4 64.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.359 ppbv

RT: 14.50 min Scan# 3644

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Instrument :

MSVOA_L

ClientSampled :

SV3DL

Tot Ion: 95 Resp: 1193271

Ion Ratio Lower Upper

95 100

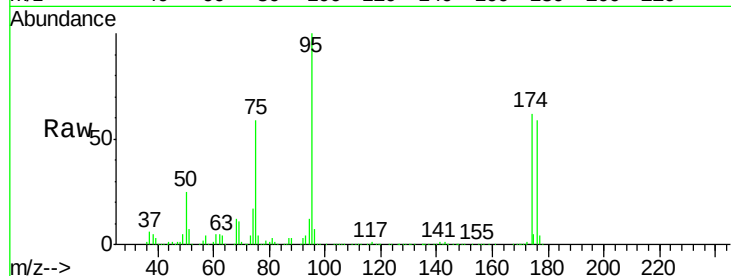
174 62.4 48.1 72.1

175 4.7 3.5 5.3

Manual Integrations
APPROVED

MMDadoda

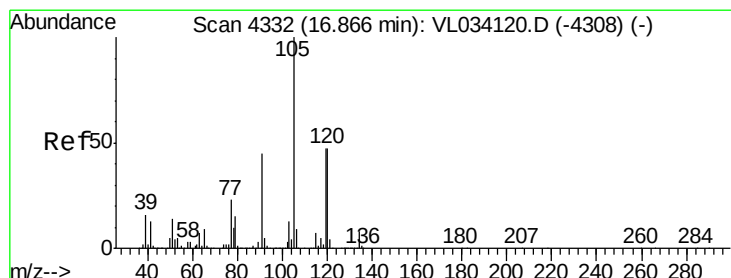
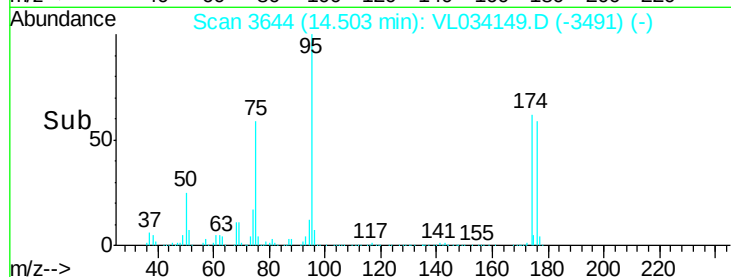
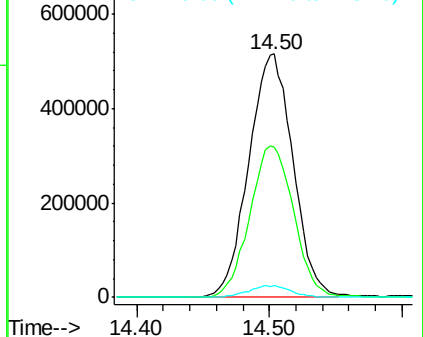
9/12/2019 5:17:00 AM



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#74

1,2,4-Trimethylbenzene

Concen: 0.216 ppbv m

RT: 16.85 min Scan# 4375

Delta R.T. -0.01 min

Lab File: VL034149.D

Acq: 10 Sep 2019 19:10

Tgt Ion:105 Resp: 45785

Ion Ratio Lower Upper

105 100

120 34.5 37.7 56.5#

91 12.9 36.2 54.2#

77 13.5 18.5 27.7#

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

