

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031819\
 Data File : VL033373.D
 Acq On : 19 Mar 2019 00:39
 Operator : SY/AP
 Sample : K1952-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA2

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:15:16 PM

Quant Time: Mar 19 08:16:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 19 08:16:53 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	796939	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1793461	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1700187	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1321041	10.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	62578	0.447	ppbv	93
3) Chlorodifluoromethane	3.01	51	28934m	0.316	ppbv	
4) Chloromethane	3.17	50	27903	0.563	ppbv	94
10) Heptane	8.25	43	14050m	0.139	ppbv	
11) Trichlorofluoromethane	4.00	101	32410	0.232	ppbv	91
13) Ethanol	3.71	45	26761789	1374.801	ppbv	97
15) Acetone	3.90	43	1150360m	9.286	ppbv	
17) tert-Butyl alcohol	4.42	59	138739m	7.958	ppbv	
20) Methylene Chloride	4.41	84	42457	1.051	ppbv	97
26) Hexane	5.78	57	52623	0.654	ppbv	87
34) 2-Butanone	5.33	43	42427	0.360	ppbv	99
35) Carbon Tetrachloride	7.13	117	8519m	0.067	ppbv	
36) Benzene	7.00	78	38809	0.242	ppbv	98
52) Tetrachloroethene	11.38	164	17071m	0.255	ppbv	
53) Toluene	9.94	91	828669	4.544	ppbv	99
59) m/p-Xylene	13.13	91	39125m	0.189	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	32129m	0.136	ppbv	

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

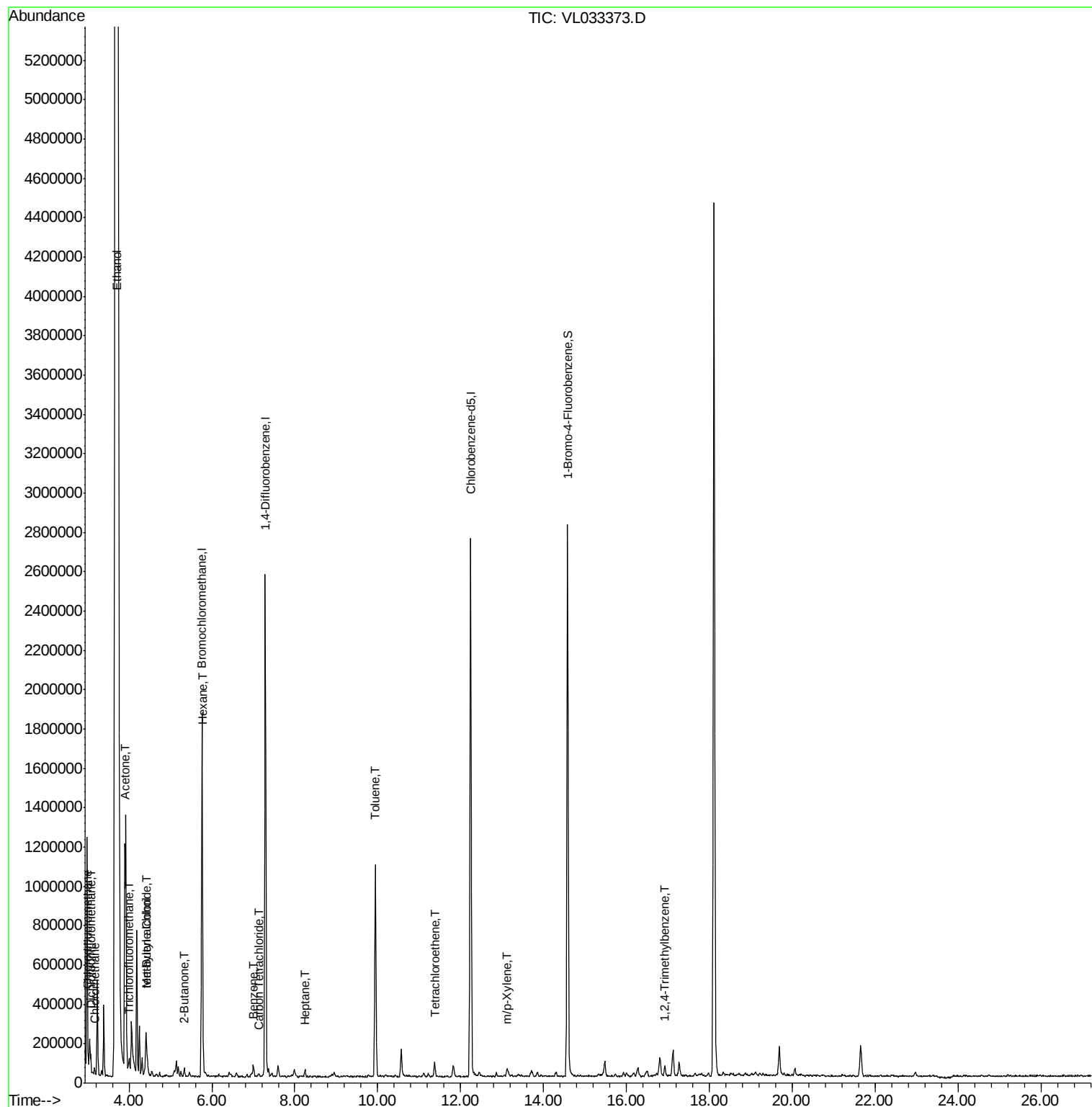
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031819\
Data File : VL033373.D
Acq On : 19 Mar 2019 00:39
Operator : SY/AP
Sample : K1952-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

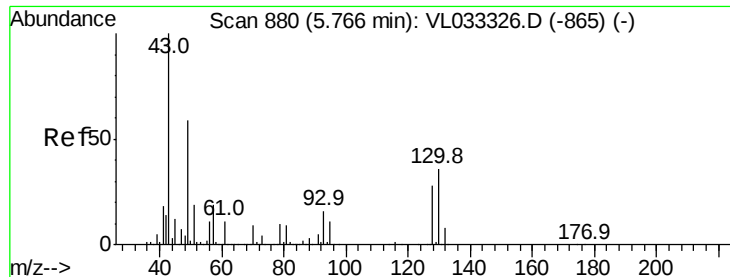
Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA2

Manual Integrations
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3/21/2019 12:15:16 PM

Quant Time: Mar 19 08:16:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033373.D

Acq: 19 Mar 2019 00:39

Instrument :

MSVOA_L

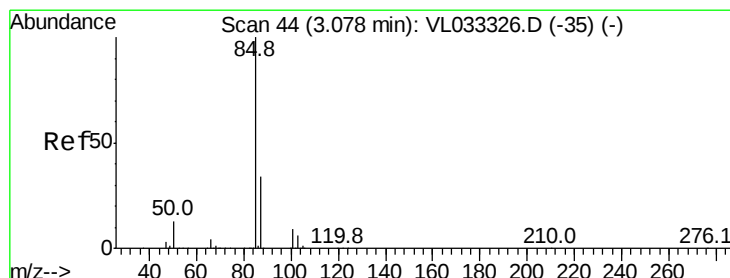
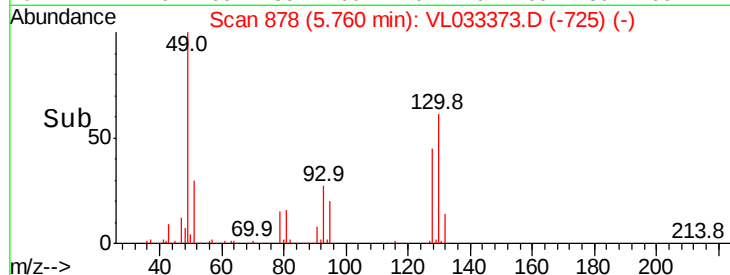
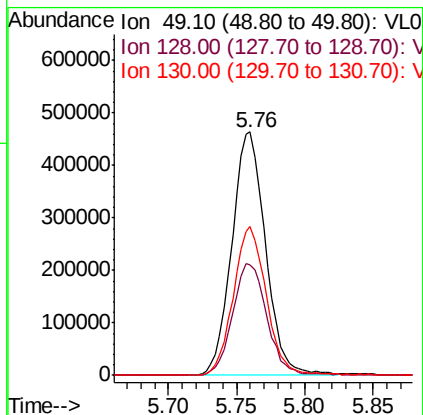
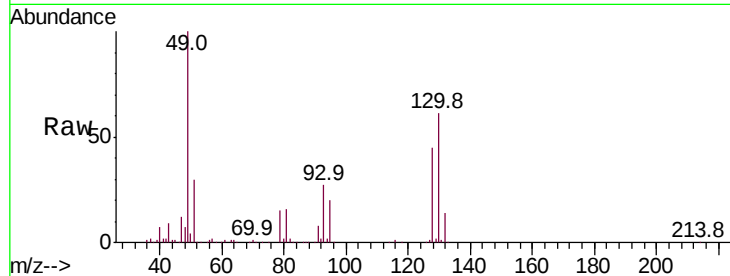
ClientSampleId :

L1HA-IA2

Tot Ion	Ratio	Lower	Upper
49	100		
128	46.7	23.5	70.6
130	59.8	30.1	90.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.447 ppbv

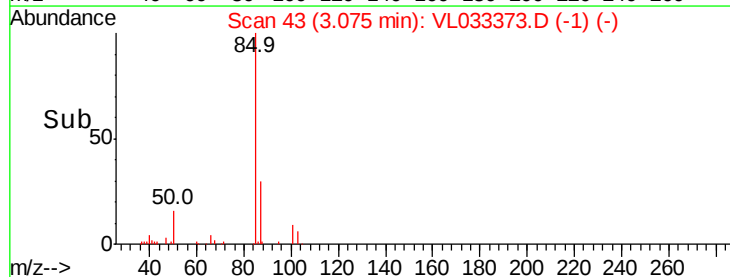
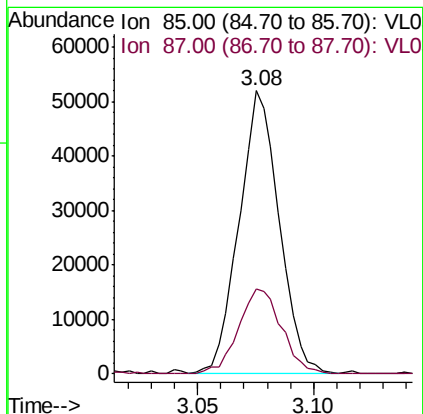
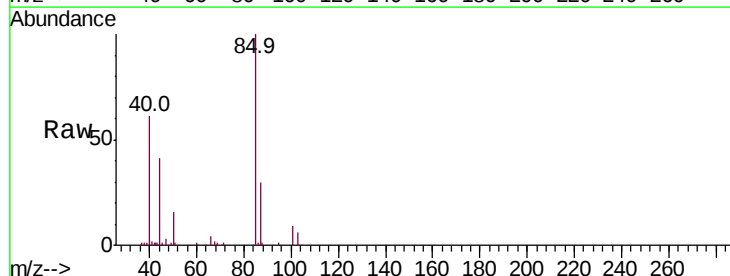
RT: 3.08 min Scan# 43

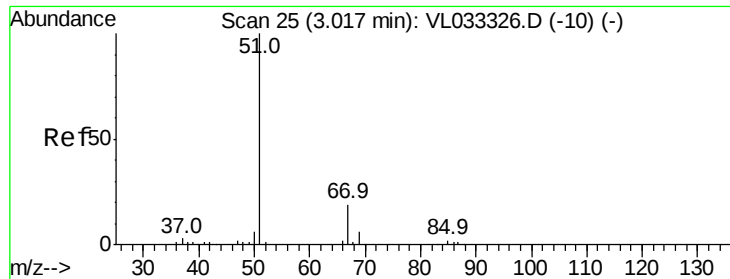
Delta R.T. -0.00 min

Lab File: VL033373.D

Acq: 19 Mar 2019 00:39

Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.9	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.316 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033373.D

Acq: 19 Mar 2019 00:39

Instrument :

MSVOA_L

ClientSampled :

L1HA-IA2

Tot Ion: 51 Resp: 28934

Ion Ratio Lower Upper

51 100

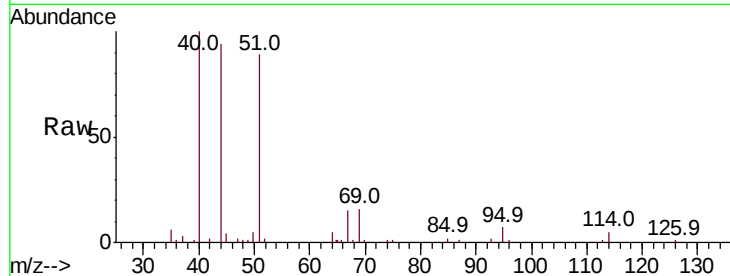
67 23.5 14.9 22.3#

Manual Integrations

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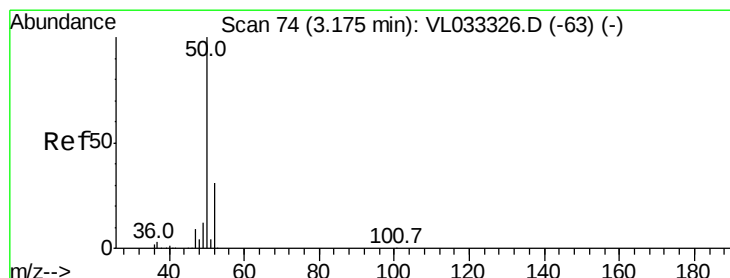
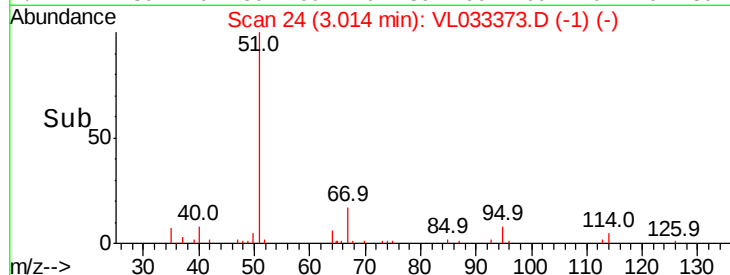
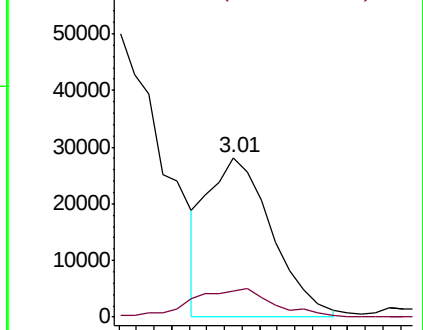
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.563 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033373.D

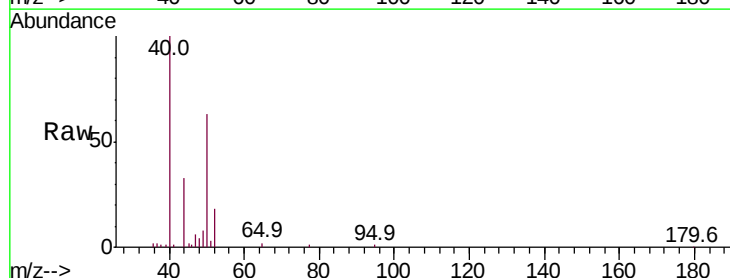
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Tgt Ion: 50 Resp: 27903

Ion Ratio Lower Upper

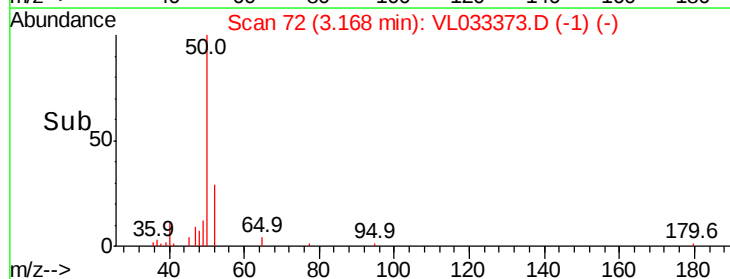
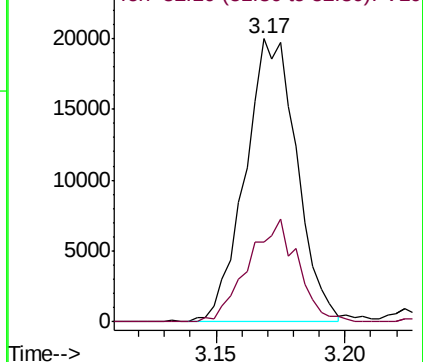
50 100

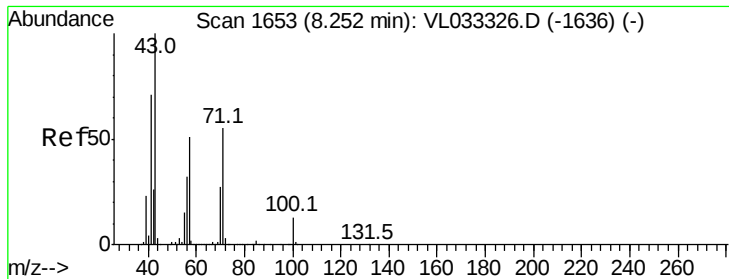
52 28.2 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





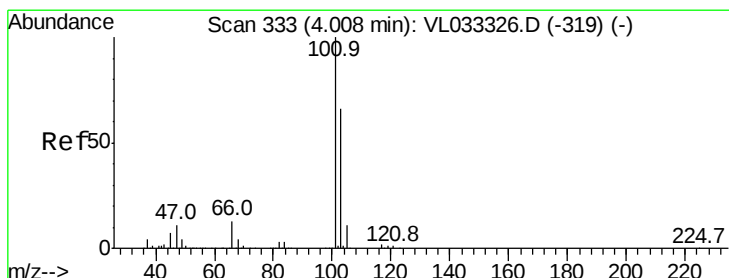
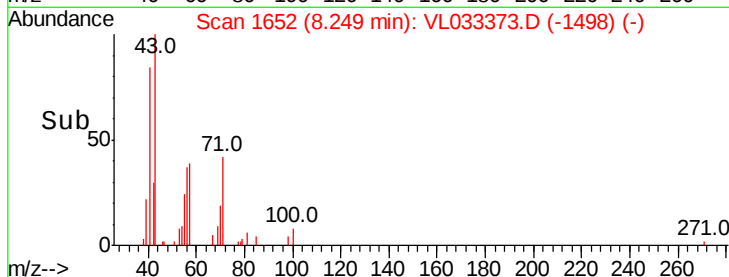
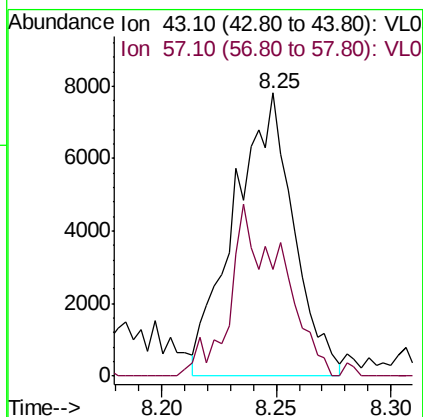
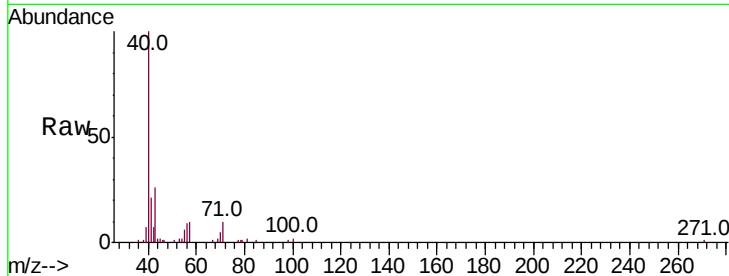
#10
 Heptane
 Concen: 0.139 ppbv m
 RT: 8.25 min Scan# 1652
 Delta R.T. -0.00 min
 Lab File: VL033373.D
 Acq: 19 Mar 2019 00:39

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA2

Tot Ion: 43 Resp: 14050
 Ion Ratio Lower Upper
 43 100
 57 53.7 40.4 60.6

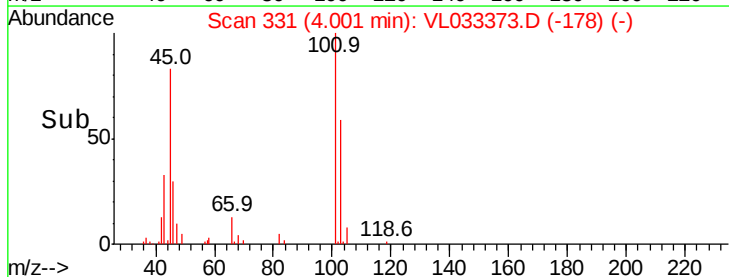
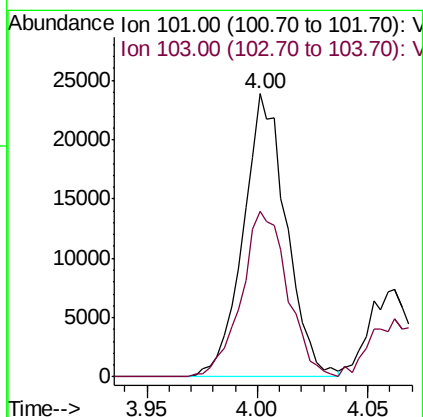
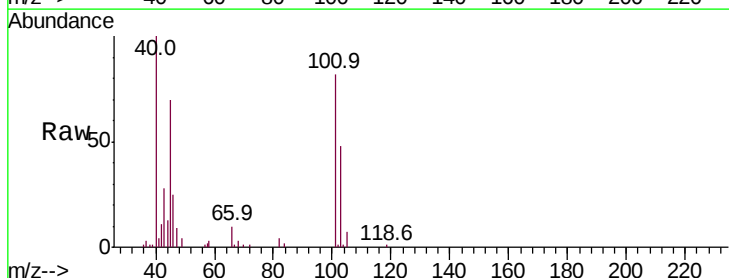
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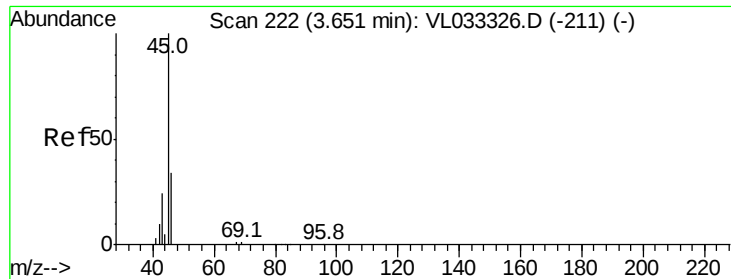
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#11
 Trichlorofluoromethane
 Concen: 0.232 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VL033373.D
 Acq: 19 Mar 2019 00:39

Tgt Ion: 101 Resp: 32410
 Ion Ratio Lower Upper
 101 100
 103 58.7 52.9 79.3





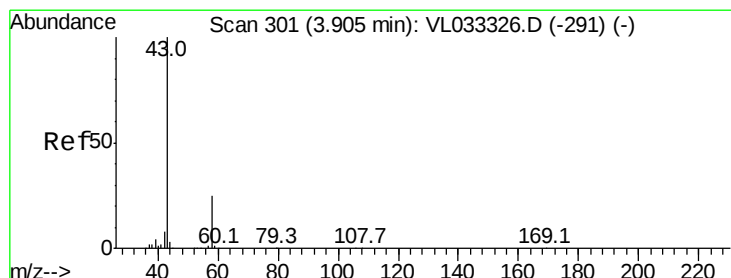
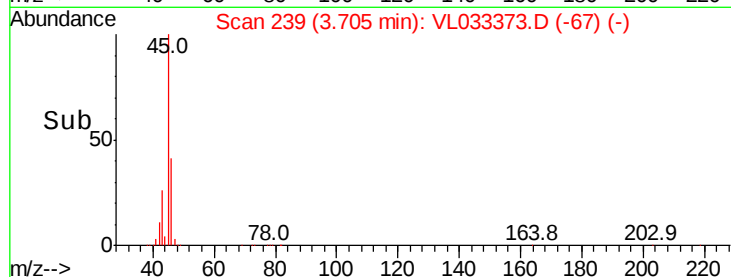
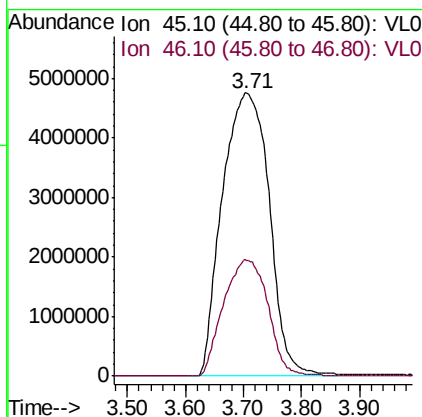
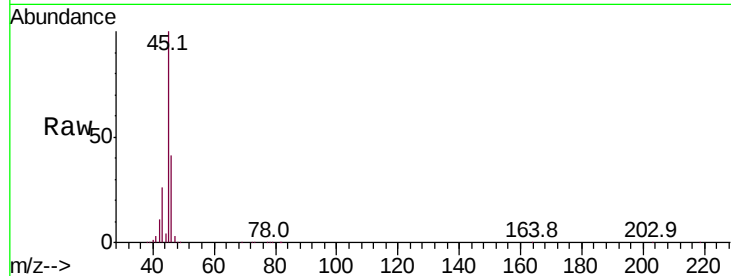
#13
Ethanol
Concen: 1374.801 ppbv
RT: 3.71 min Scan# 239
Delta R.T. 0.05 min
Lab File: VL033373.D
Acq: 19 Mar 2019 00:39

Instrument :
MSVOA_L
ClientSampled :
L1HA-IA2

Tot Ion: 45 Resp: 26761789
Ion Ratio Lower Upper
45 100
46 39.2 14.9 59.7

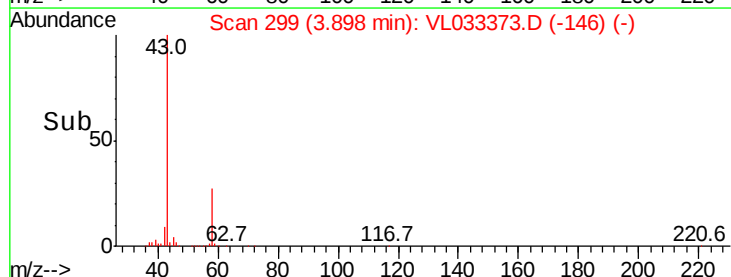
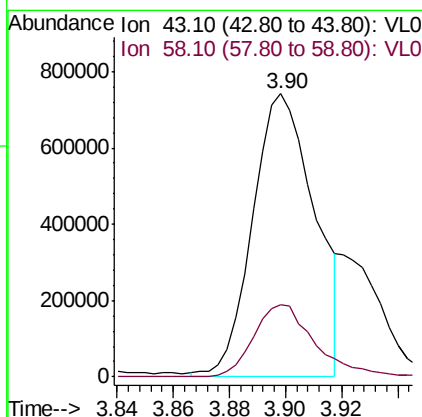
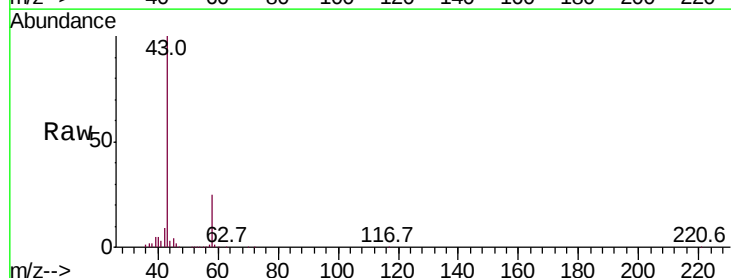
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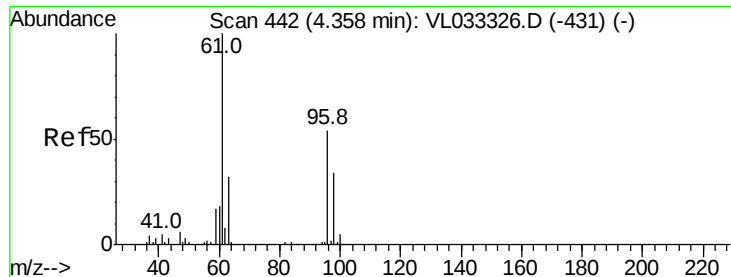
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#15
Acetone
Concen: 9.286 ppbv m
RT: 3.90 min Scan# 299
Delta R.T. -0.01 min
Lab File: VL033373.D
Acq: 19 Mar 2019 00:39

Tgt Ion: 43 Resp: 1150360
Ion Ratio Lower Upper
43 100
58 25.4 20.4 30.6





#17

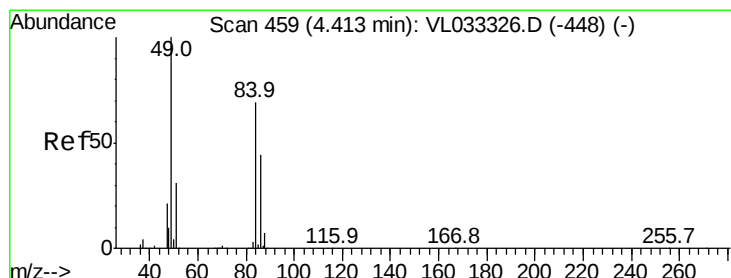
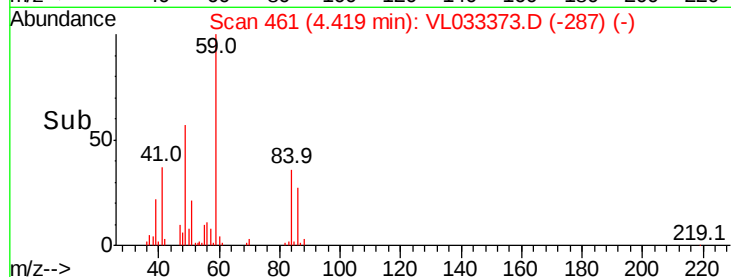
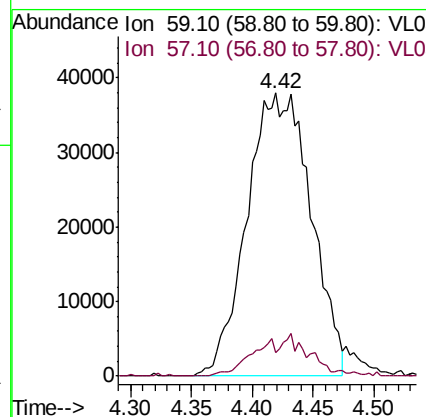
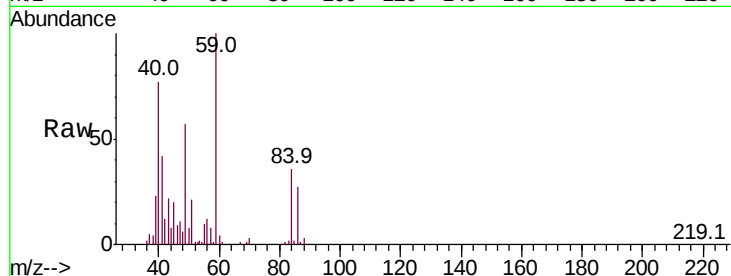
tert-Butyl alcohol
 Concen: 7.958 ppbv
 RT: 4.42 min Scan# 461
 Delta R.T. 0.06 min
 Lab File: VL033373.D
 Acq: 19 Mar 2019 00:39

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA2

Tot Ion: 59 Resp: 138739
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.7 11.5#

Manual Integrations
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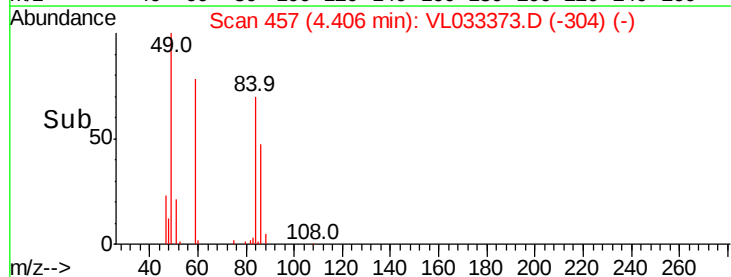
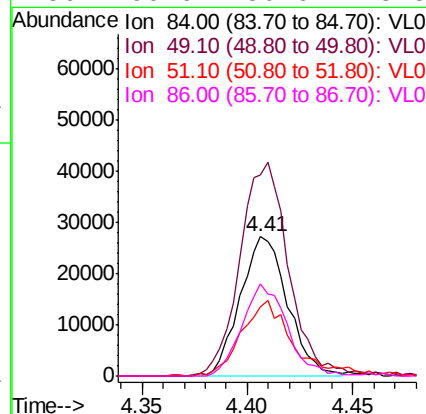
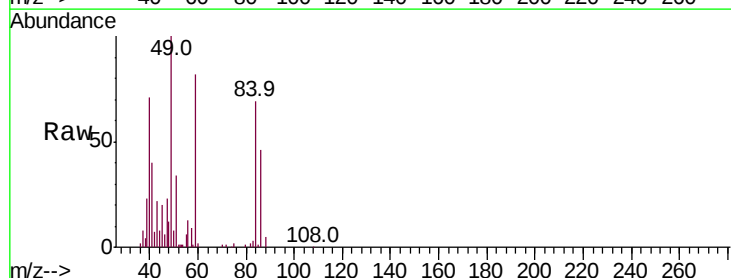
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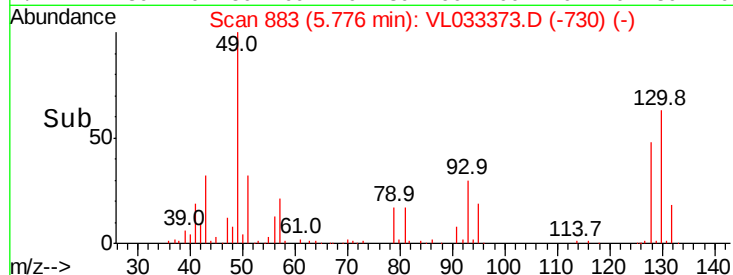
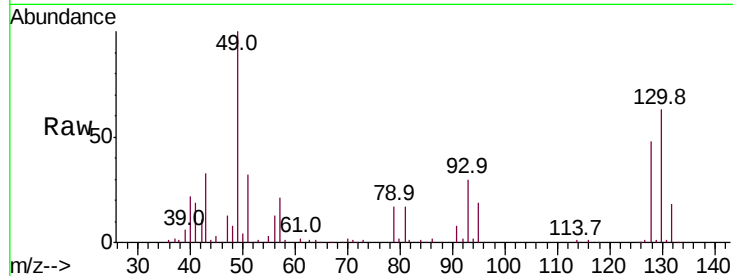
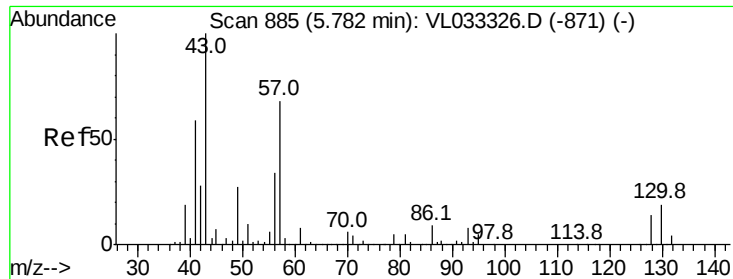


#20

Methylene Chloride
 Concen: 1.051 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. -0.01 min
 Lab File: VL033373.D
 Acq: 19 Mar 2019 00:39

Tgt Ion: 84 Resp: 42457
 Ion Ratio Lower Upper
 84 100
 49 143.3 115.4 173.0
 51 49.3 35.8 53.6
 86 66.6 50.6 75.8





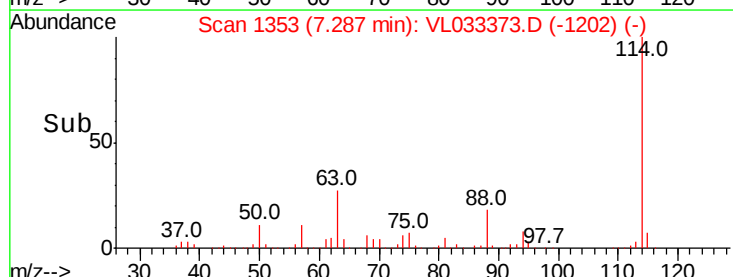
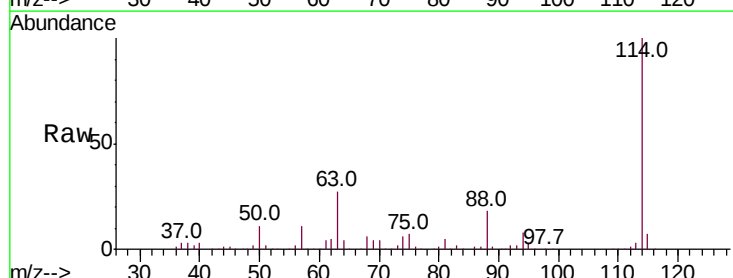
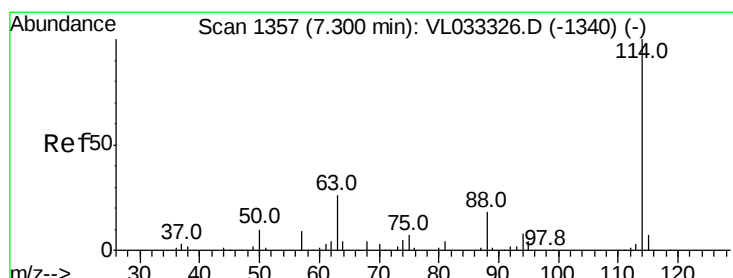
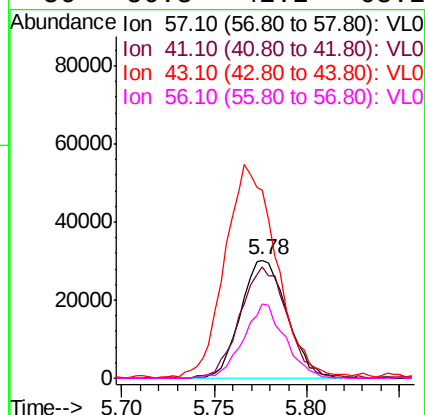
#26
Hexane
Concen: 0.654 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033373.D
Acq: 19 Mar 2019 00:39

Tot Ion	57	Resp	52623
Ion Ratio	Lower	Upper	
57	100		
41	98.3	70.5	105.7
43	202.9	181.8	272.8
56	56.3	42.2	63.2

Instrument :
MSVOA_L
ClientSampled :
L1HA-IA2

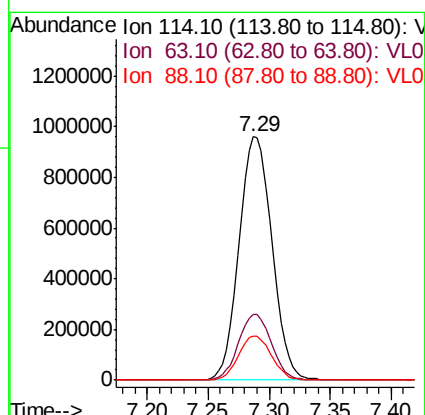
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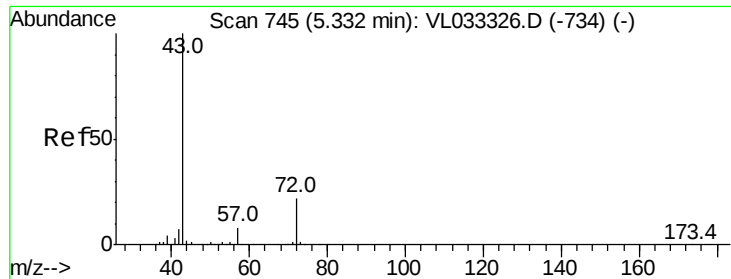
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033373.D
Acq: 19 Mar 2019 00:39

Tgt Ion	114	Resp	1793461
Ion Ratio	Lower	Upper	
114	100		
63	27.1	21.4	32.2
88	18.1	14.5	21.7





#34

2-Butanone

Concen: 0.360 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.00 min

Lab File: VL033373.D

Acq: 19 Mar 2019 00:39

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA2

Tot Ion: 43 Resp: 42427

Ion Ratio Lower Upper

43 100

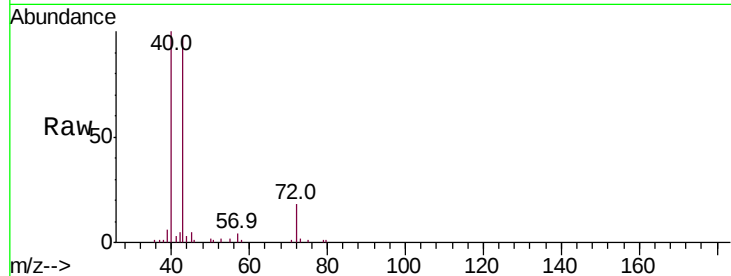
72 21.7 17.7 26.5

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

30000

25000

20000

15000

10000

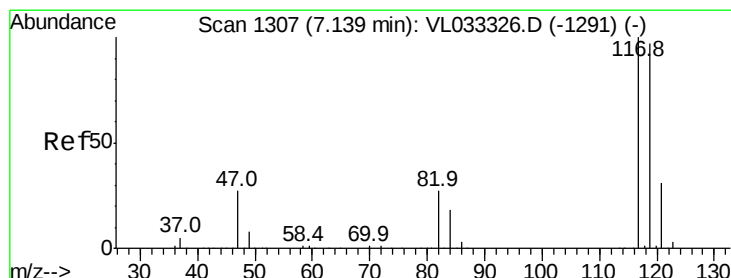
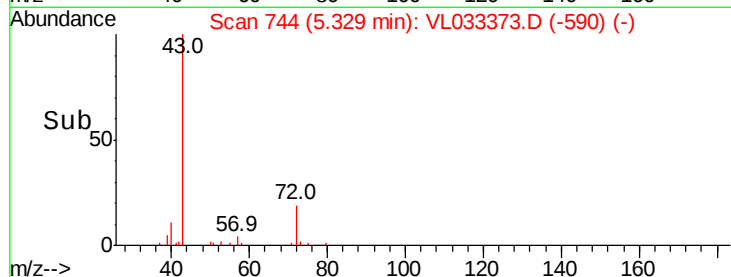
5000

0

5.30

5.35

Time-->



#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033373.D

Acq: 19 Mar 2019 00:39

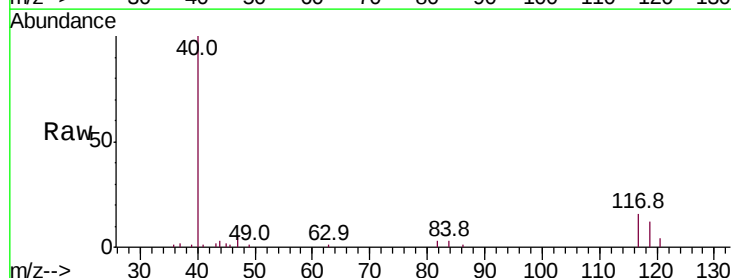
Tgt Ion: 117 Resp: 8519

Ion Ratio Lower Upper

117 100

119 77.1 77.4 116.0#

121 0.0 24.9 37.3#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

6000

5000

4000

3000

2000

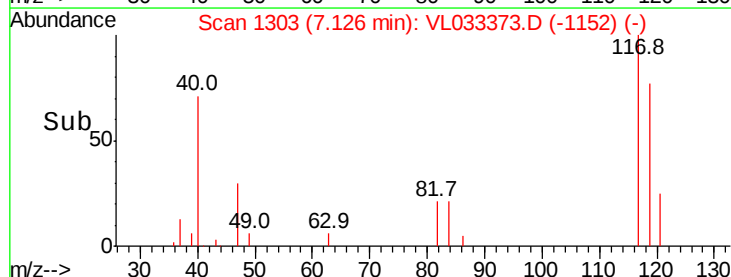
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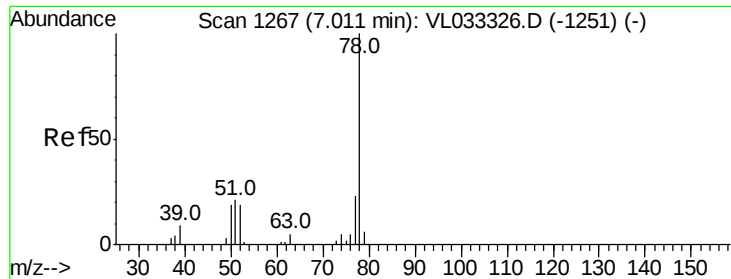
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7.10

7.15

Time-->





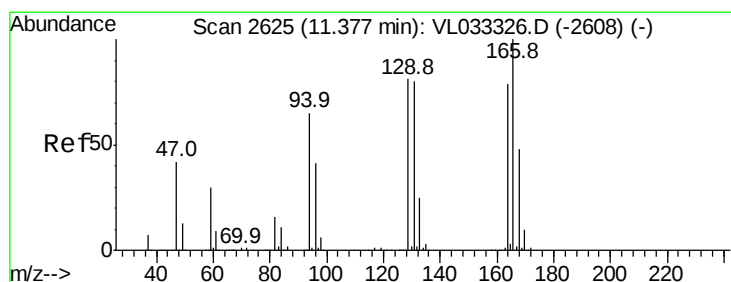
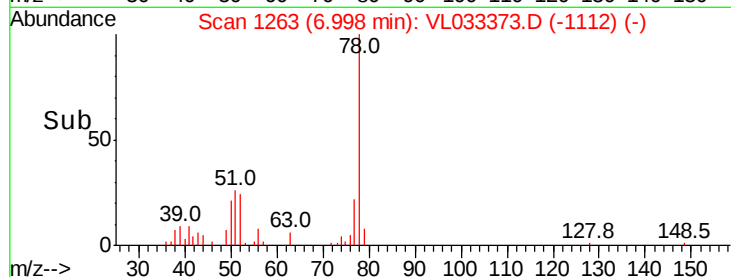
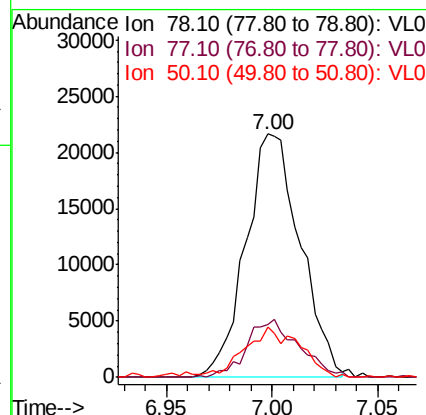
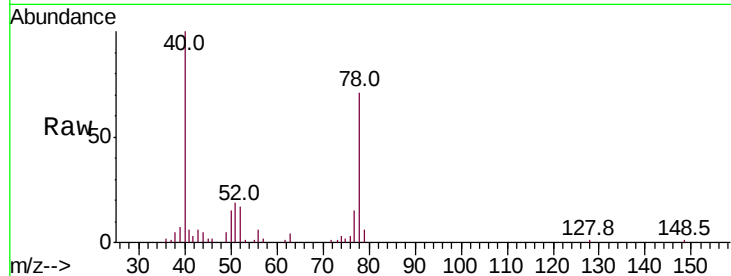
#36
Benzene
Concen: 0.242 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033373.D
Acq: 19 Mar 2019 00:39

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA2

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.7	18.1	27.1
50	19.6	15.2	22.8

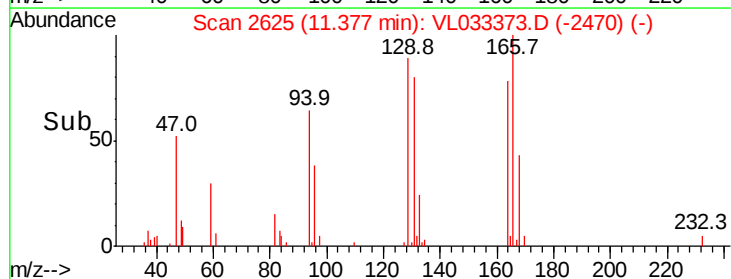
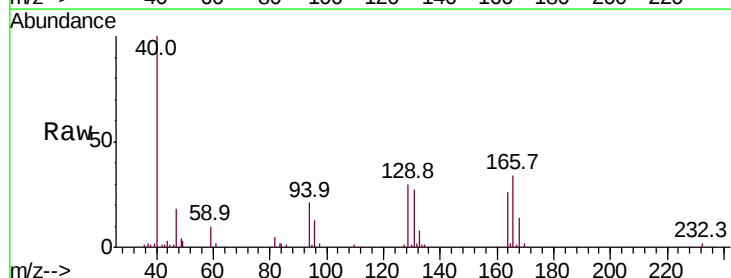
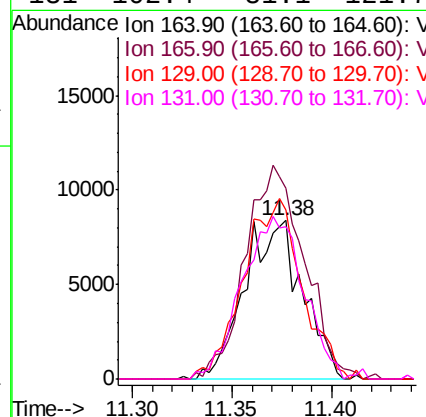
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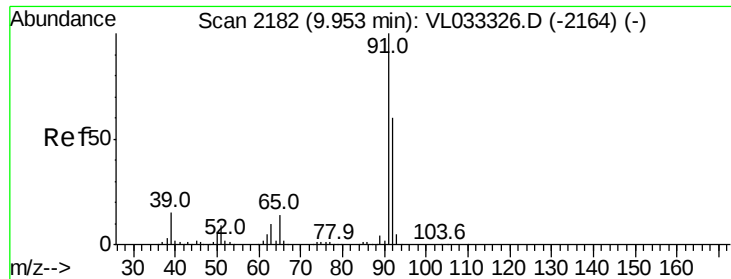
MMDadoda
3/21/2019 12:15:16 PM



#52
Tetrachloroethene
Concen: 0.255 ppbv m
RT: 11.38 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL033373.D
Acq: 19 Mar 2019 00:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	101.5	152.3
129	113.5	82.2	123.2
131	102.4	81.1	121.7





#53

Toluene

Concen: 4.544 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033373.D

Acq: 19 Mar 2019 00:39

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA2

Tot Ion: 91 Resp: 828669

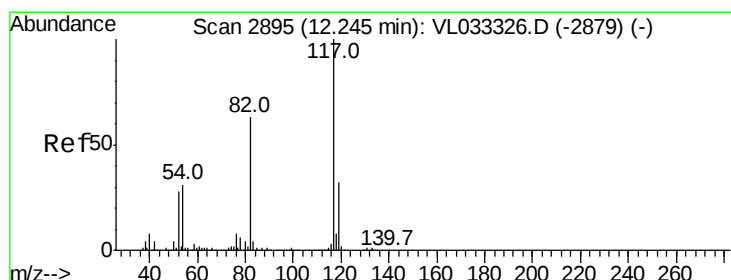
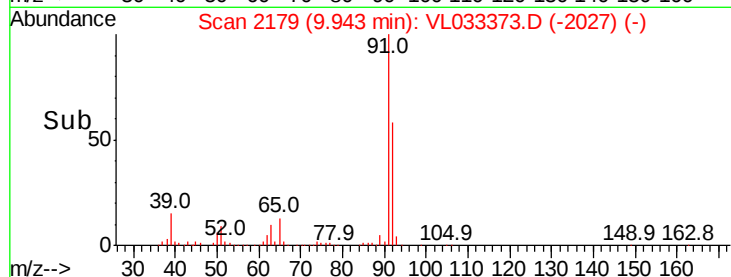
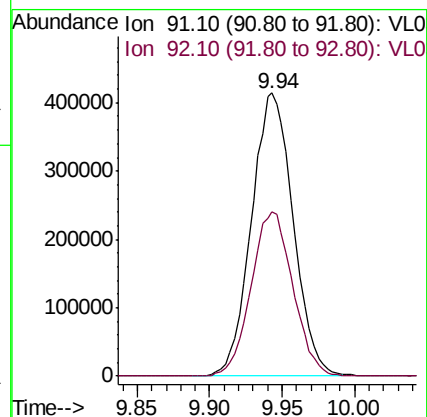
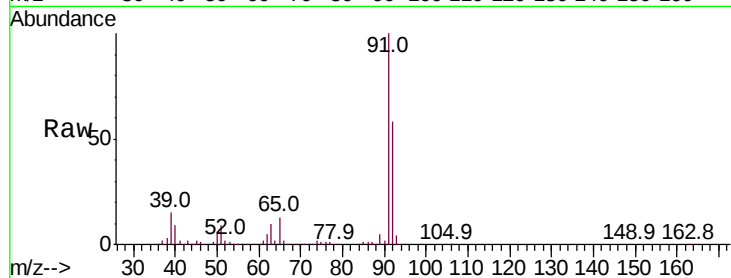
Ion Ratio Lower Upper

91 100

92 58.2 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033373.D

Acq: 19 Mar 2019 00:39

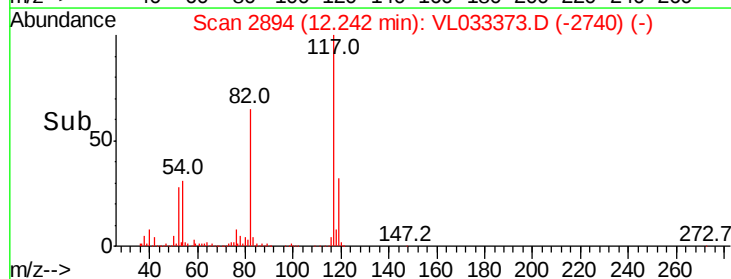
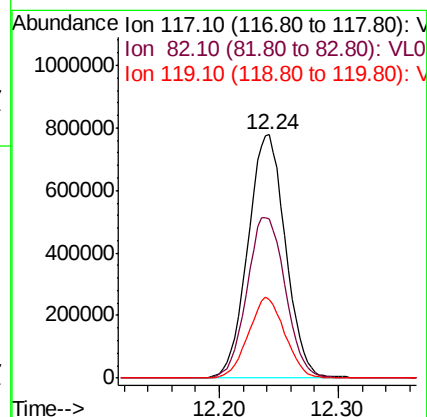
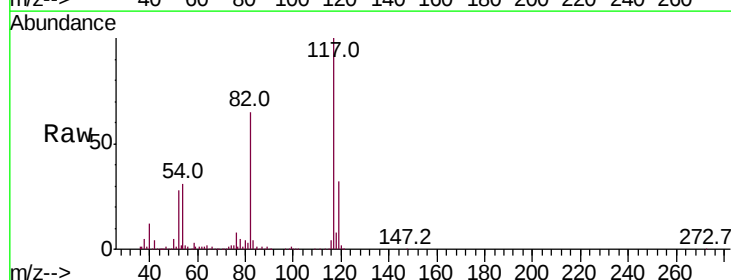
Tgt Ion: 117 Resp: 1700187

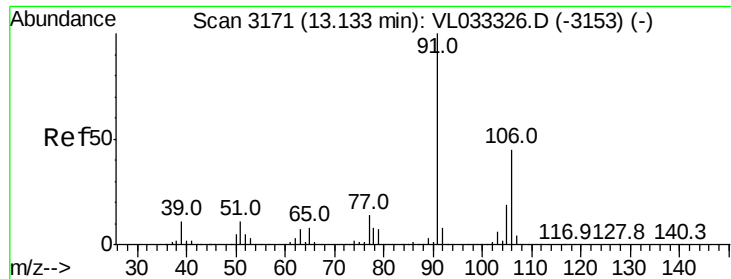
Ion Ratio Lower Upper

117 100

82 67.9 53.4 80.2

119 32.4 27.3 40.9





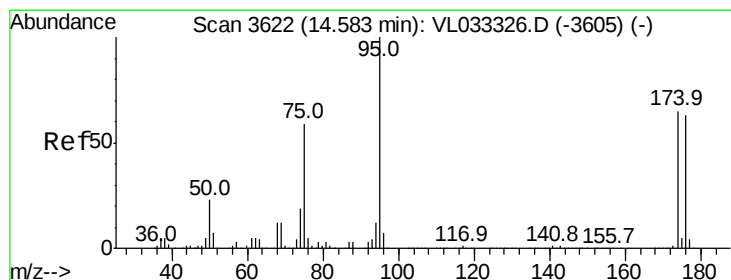
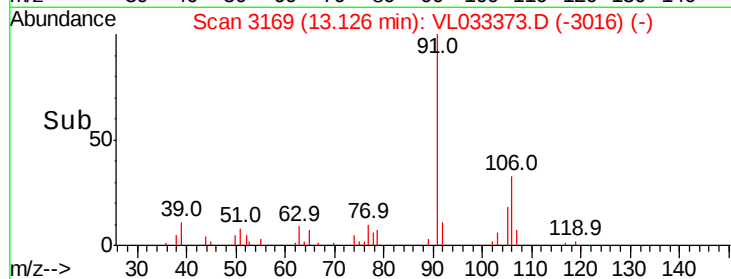
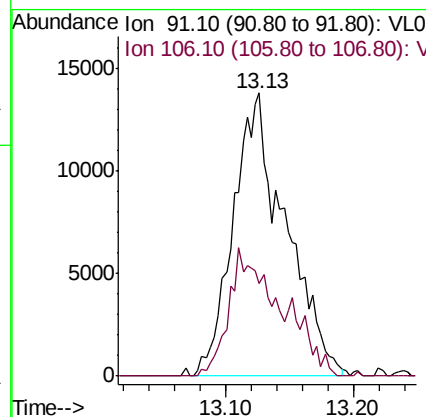
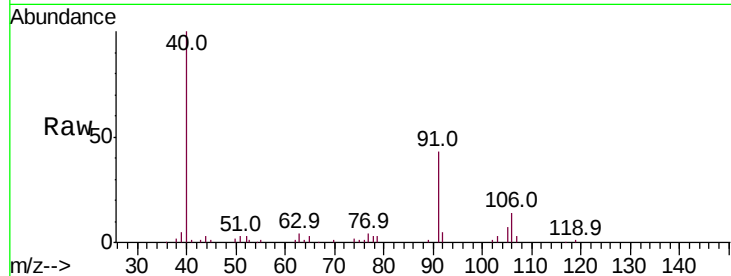
#59
m/p-Xylene
Concen: 0.189 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL033373.D
Acq: 19 Mar 2019 00:39

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA2

Tot Ion: 91 Resp: 39125
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

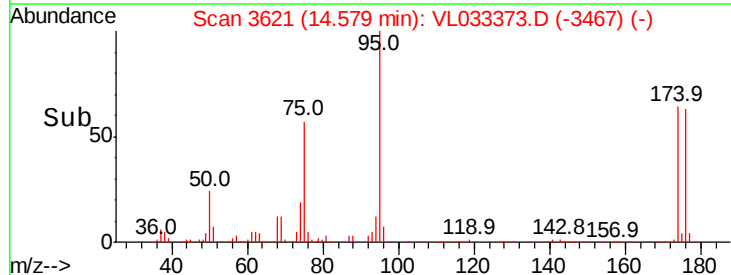
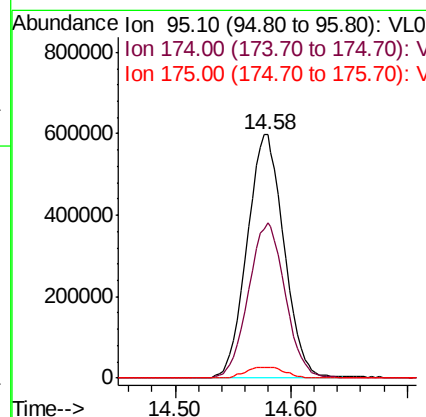
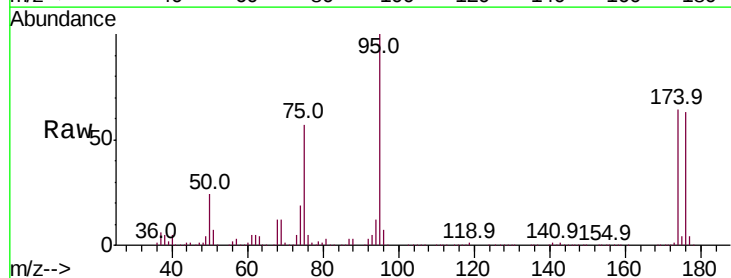
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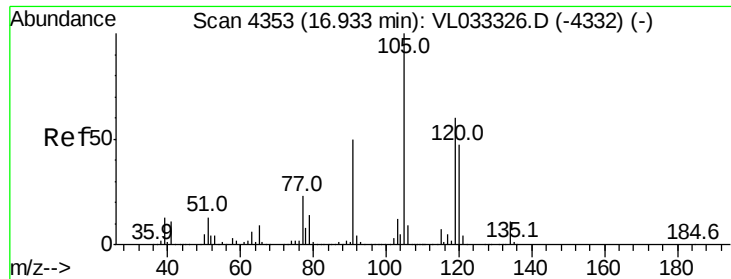
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.486 ppbv
RT: 14.58 min Scan# 3621
Delta R.T. -0.00 min
Lab File: VL033373.D
Acq: 19 Mar 2019 00:39

Tgt Ion: 95 Resp: 1321041
Ion Ratio Lower Upper
95 100
174 64.3 51.5 77.3
175 4.8 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.136 ppbv m
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033373.D
 Acq: 19 Mar 2019 00:39

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA2

Tot Ion:	105	Resp:	32129
Ion Ratio	Lower	Upper	
105	100		
120	38.8	37.4	56.2
91	16.9	41.0	61.4#
77	13.6	18.5	27.7#

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:15:16 PM

