

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041019\
 Data File : VL033583.D
 Acq On : 11 Apr 2019 3:37
 Operator : SY/AP
 Sample : K2312-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-10

Manual Integrations
 APPROVED

MMDadoda
 4/11/2019 1:02:20 PM

Quant Time: Apr 11 05:17:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	765885	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1765528	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1720071	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.57	95	1381862	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	3.08	85	34342	0.307	ppbv	97
4) Chloromethane	3.17	50	20836	0.447	ppbv	99
9) Propene	3.05	41	18459m	0.499	ppbv	
10) Heptane	8.25	43	19038	0.192	ppbv	94
11) Trichlorofluoromethane	4.00	101	30362	0.221	ppbv	96
13) Ethanol	3.65	45	898383	93.757	ppbv	66
15) Acetone	3.90	43	458669	4.981	ppbv	98
19) Isopropyl Alcohol	4.03	45	304115	5.221	ppbv #	95
20) Methylene Chloride	4.41	84	180102	4.607	ppbv	96
26) Hexane	5.78	57	482647	6.353	ppbv #	56
34) 2-Butanone	5.33	43	28188	0.266	ppbv	98
35) Carbon Tetrachloride	7.13	117	7213m	0.058	ppbv	
36) Benzene	7.00	78	14796	0.100	ppbv #	89
53) Toluene	9.94	91	512380	2.976	ppbv	99

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

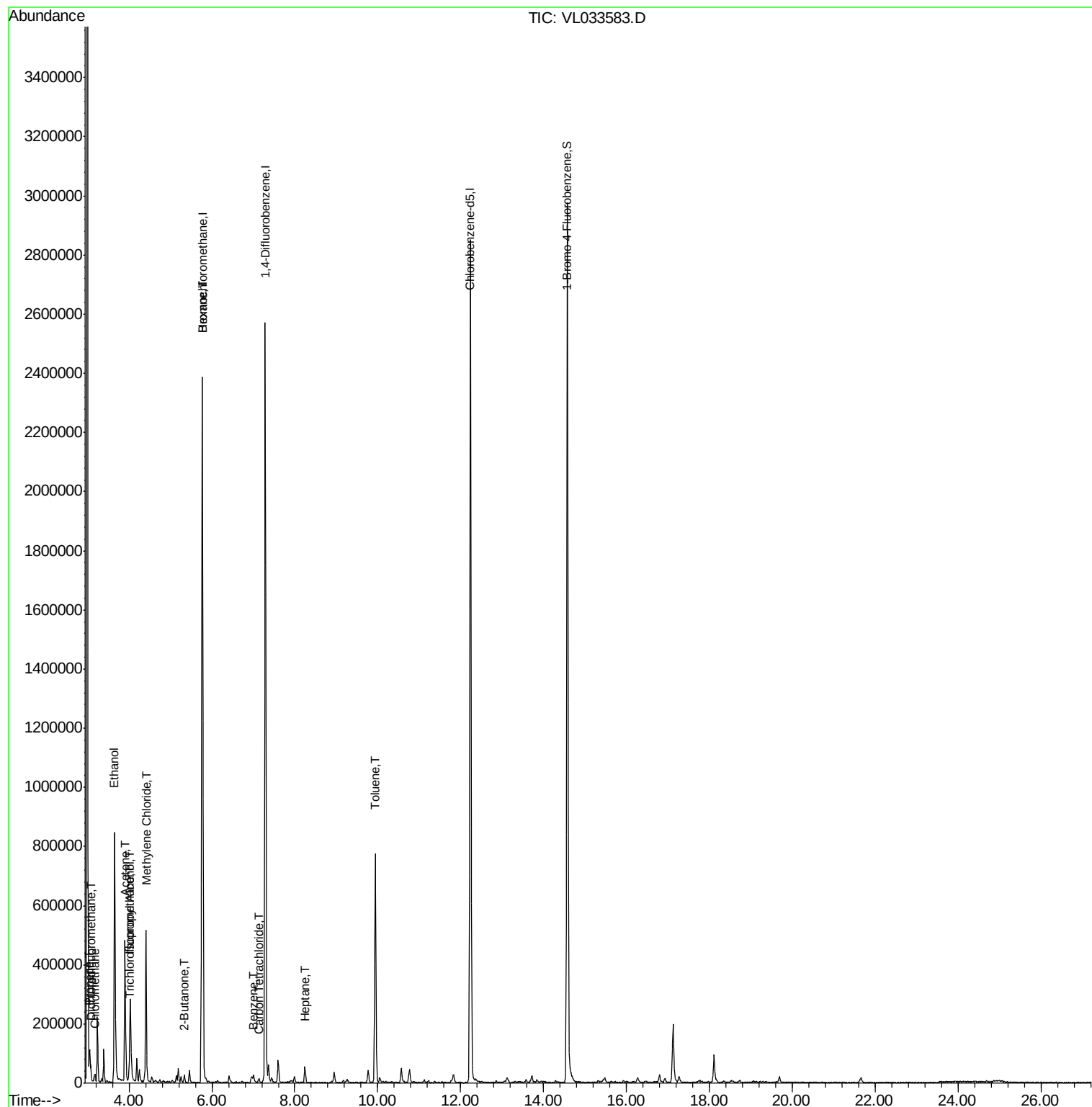
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL041019\
Data File : VL033583.D
Acq On : 11 Apr 2019 3:37
Operator : SY/AP
Sample : K2312-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

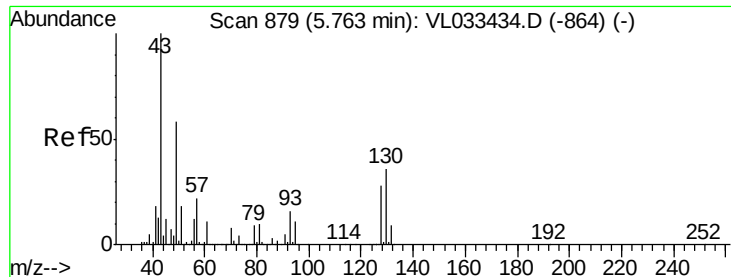
Instrument :
MSVOA_L
ClientSampleId :
A-10

Manual Integrations
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Quant Time: Apr 11 05:17:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033583.D

Acq: 11 Apr 2019 3:37

Instrument :

MSVOA_L

ClientSampled :

A-10

Tot Ion: 49 Resp: 765885

Ion Ratio Lower Upper

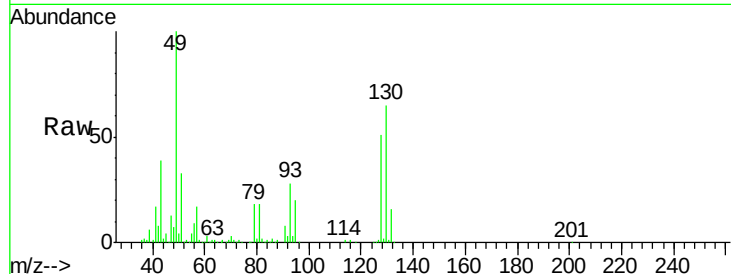
49 100

128 49.2 24.0 72.0

130 62.9 31.2 93.6

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.76

400000

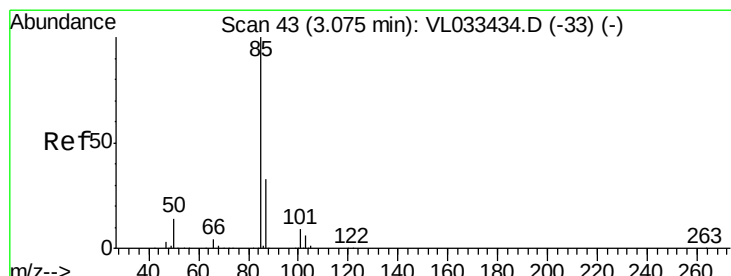
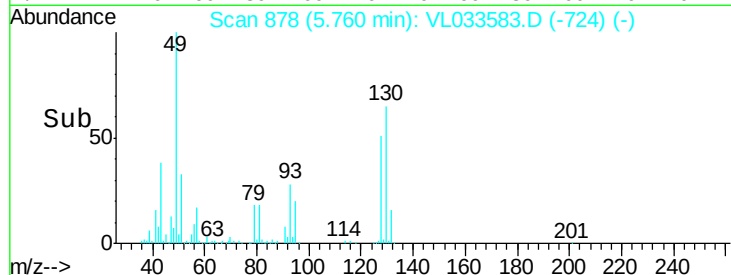
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.307 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033583.D

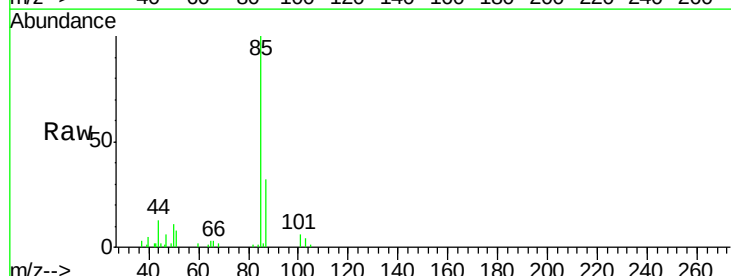
Acq: 11 Apr 2019 3:37

Tgt Ion: 85 Resp: 34342

Ion Ratio Lower Upper

85 100

87 31.7 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

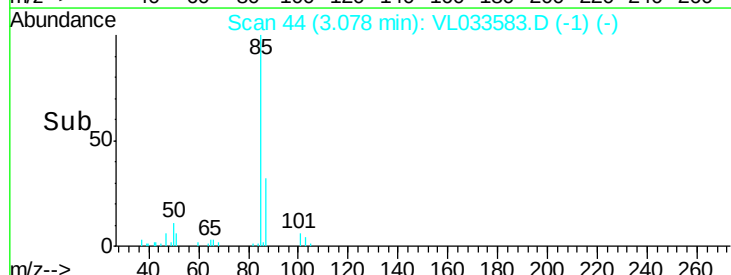
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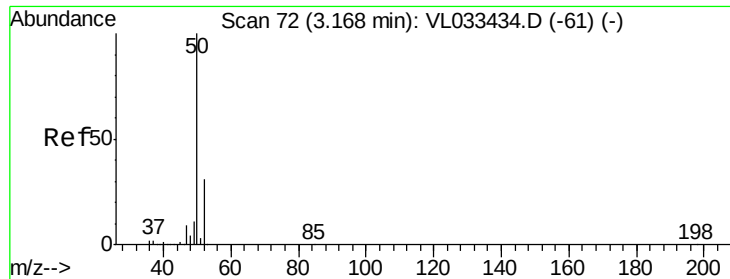
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10000

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Time-->





#4

Chloromethane

Concen: 0.447 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033583.D

Acq: 11 Apr 2019 3:37

Instrument :

MSVOA_L

ClientSampleId :

A-10

Tot Ion: 50 Resp: 20836

Ion Ratio Lower Upper

50 100

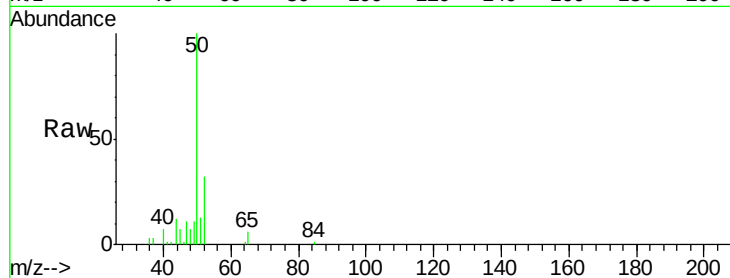
52 31.6 25.0 37.6

Manual Integrations

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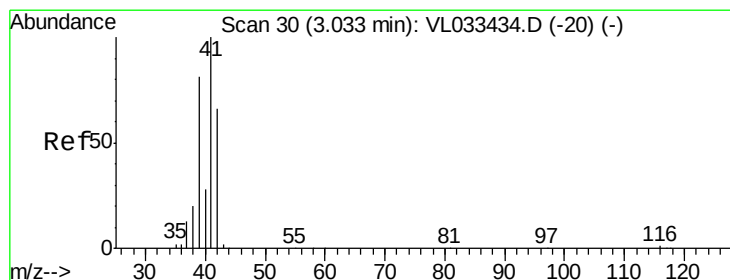
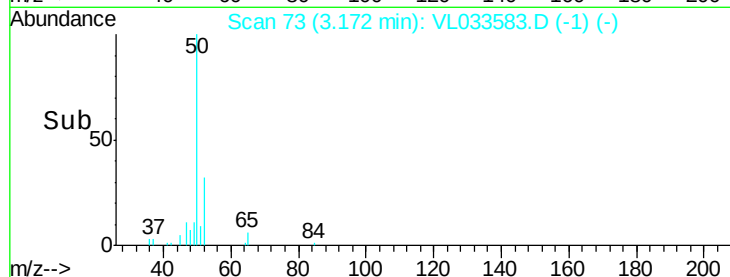
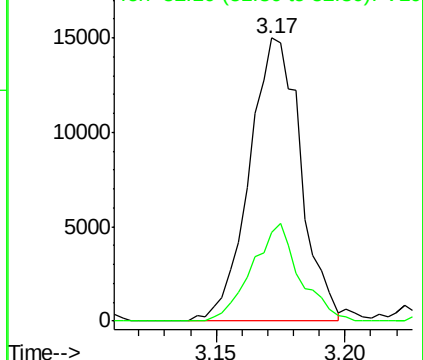
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.499 ppbv m

RT: 3.05 min Scan# 36

Delta R.T. 0.02 min

Lab File: VL033583.D

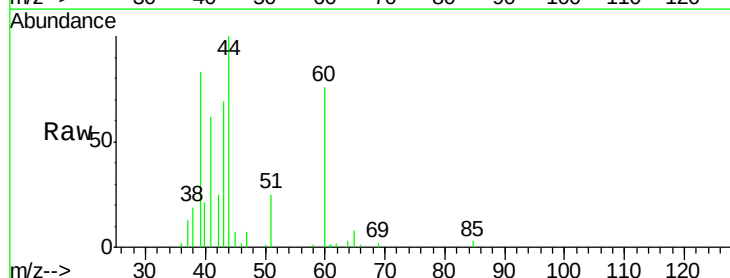
Acq: 11 Apr 2019 3:37

Tgt Ion: 41 Resp: 18459

Ion Ratio Lower Upper

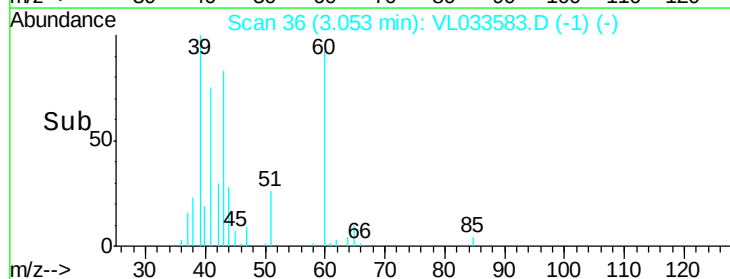
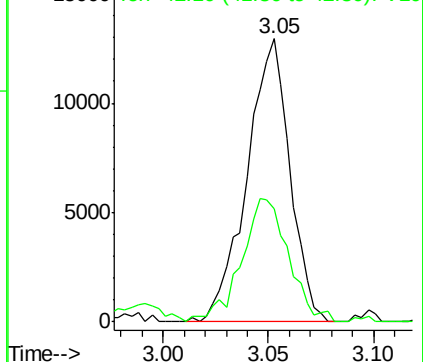
41 100

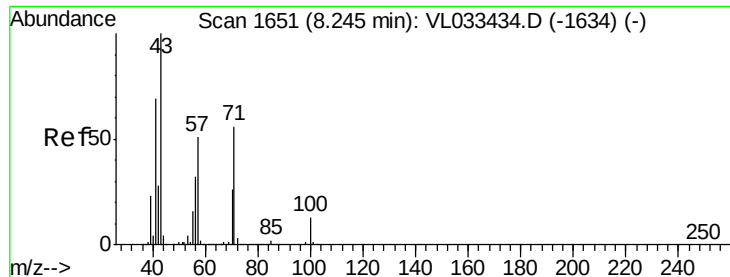
42 185.3 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





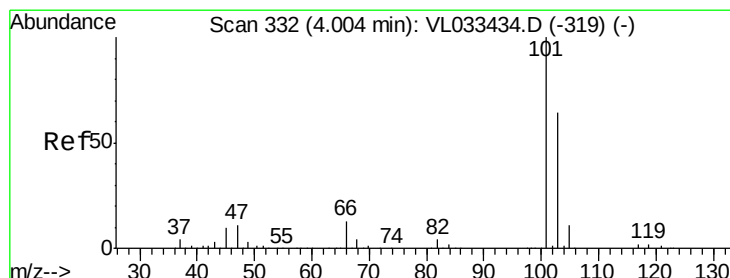
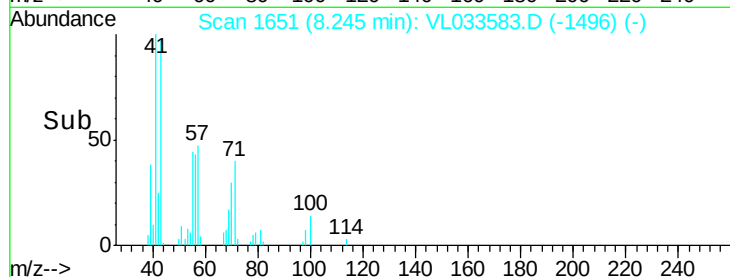
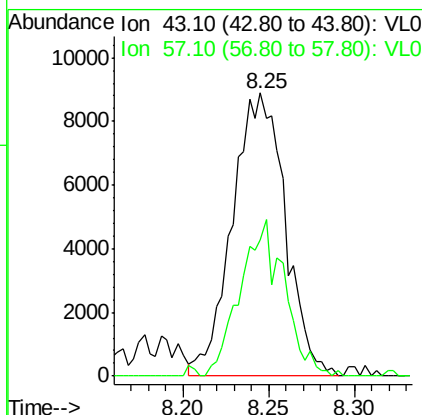
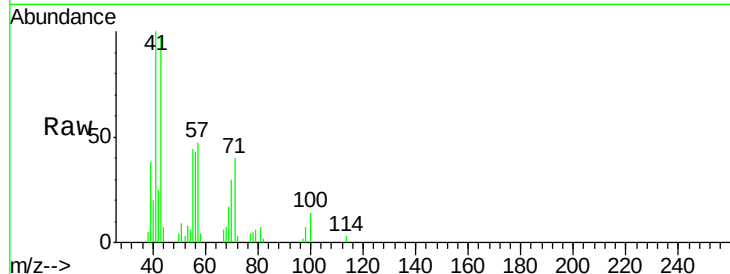
#10
 Heptane
 Concen: 0.192 ppbv
 RT: 8.25 min Scan# 1651
 Delta R.T. -0.00 min
 Lab File: VL033583.D
 Acq: 11 Apr 2019 3:37

Instrument :
 MSVOA_L
 ClientSampled :
 A-10

Tot Ion: 43 Resp: 19038
 Ion Ratio Lower Upper
 43 100
 57 46.6 40.6 60.8

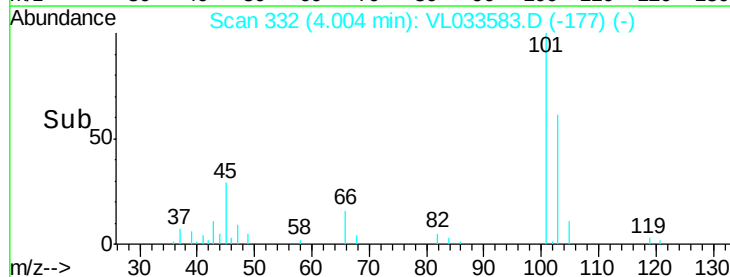
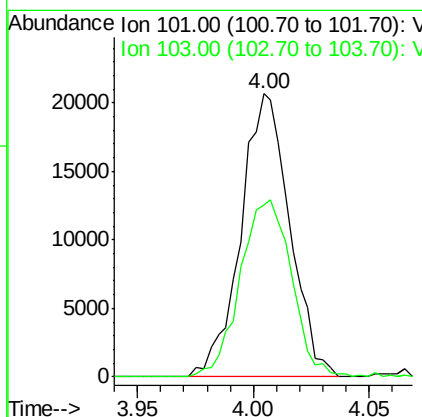
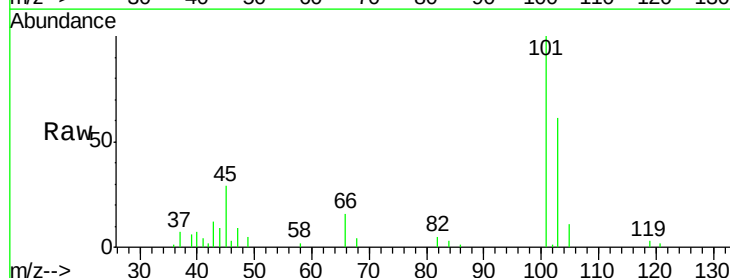
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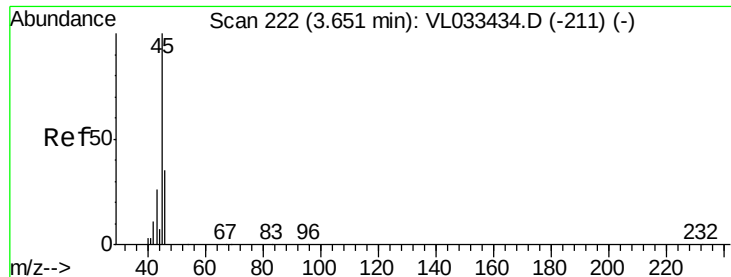
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#11
 Trichlorofluoromethane
 Concen: 0.221 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033583.D
 Acq: 11 Apr 2019 3:37

Tgt Ion: 101 Resp: 30362
 Ion Ratio Lower Upper
 101 100
 103 60.7 51.3 76.9





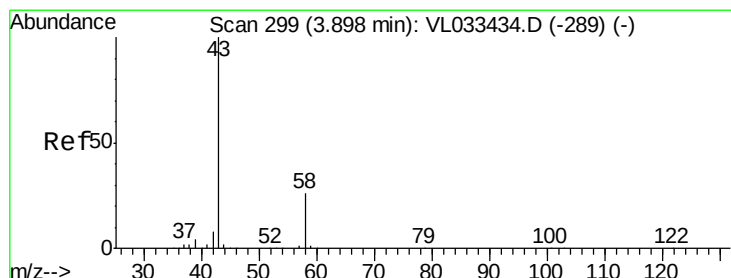
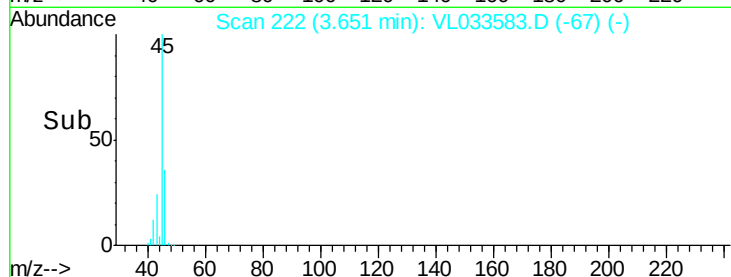
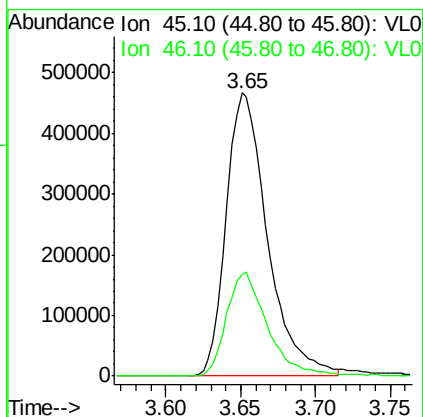
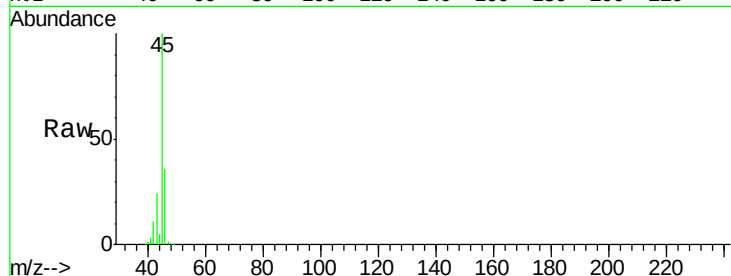
#13
Ethanol
Concen: 93.757 ppbv
RT: 3.65 min Scan# 222
Delta R.T. -0.00 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Instrument :
MSVOA_L
ClientSampled :
A-10

Tot Ion	45	Resp	898383
Ion Ratio	100	Lower	Upper
46	36.7	25.4	101.8

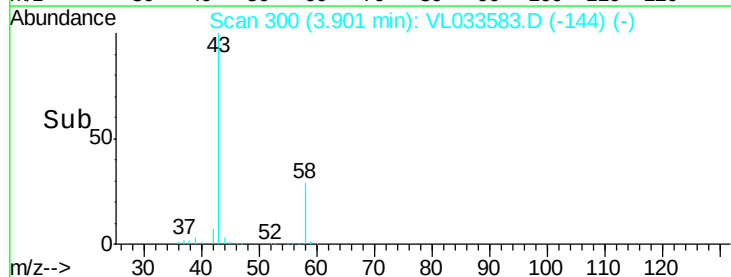
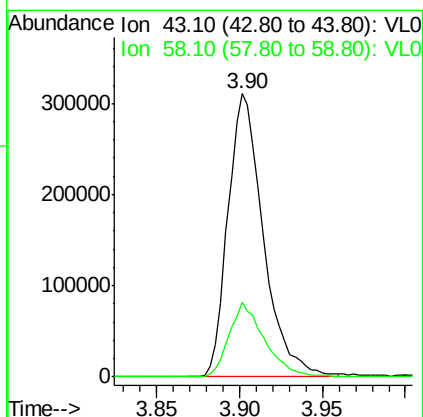
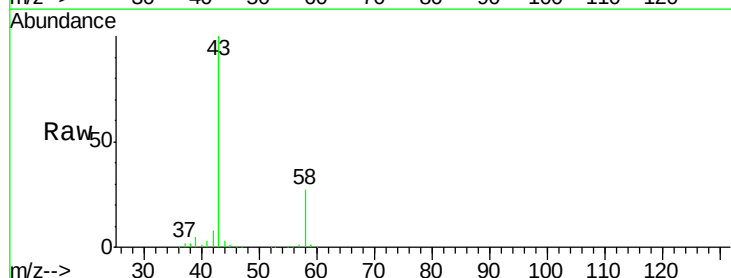
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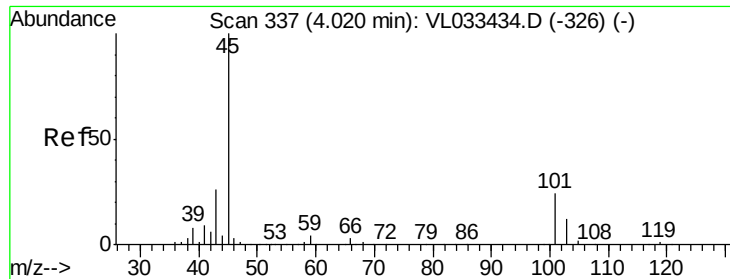
MMDadoda
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#15
Acetone
Concen: 4.981 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Tgt Ion	43	Resp	458669
Ion Ratio	100	Lower	Upper
58	26.5	20.5	30.7





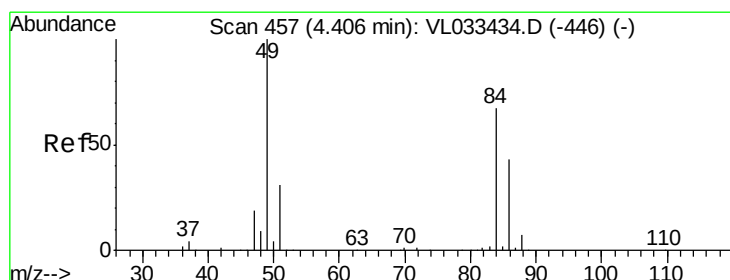
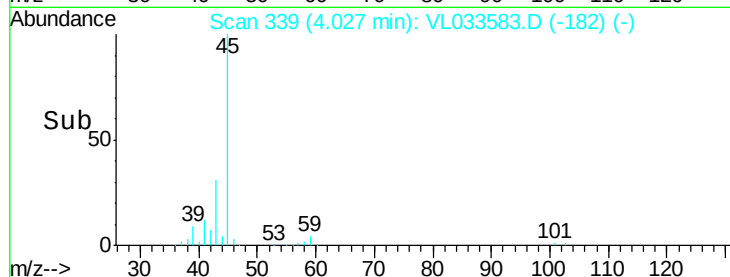
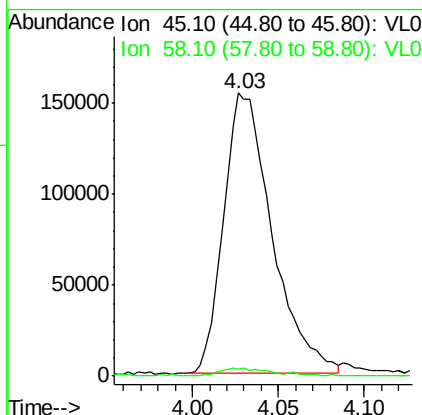
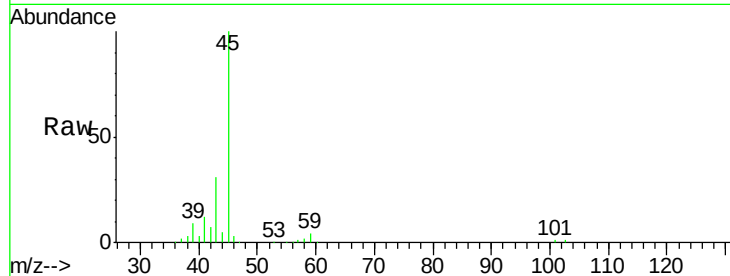
#19
Isopropyl Alcohol
Concen: 5.221 ppbv
RT: 4.03 min Scan# 339
Delta R.T. 0.01 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Instrument :
MSVOA_L
ClientSampleId :
A-10

Tot Ion: 45 Resp: 304115
Ion Ratio Lower Upper
45 100
58 3.5 1.4 2.2#

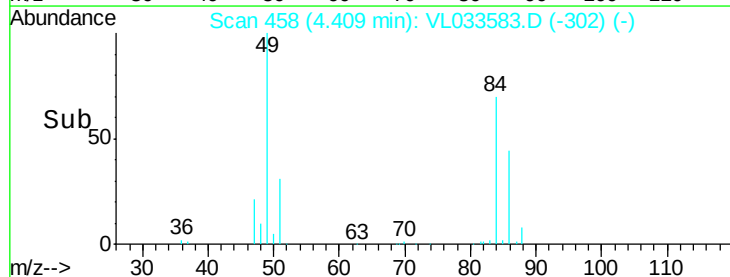
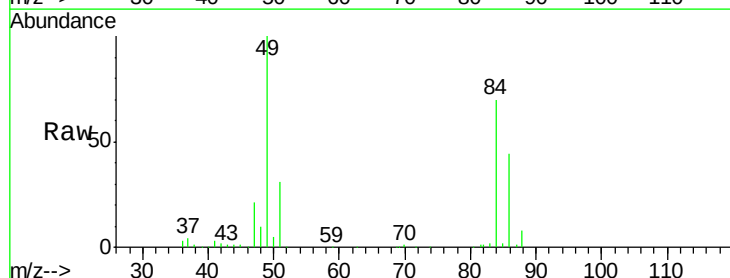
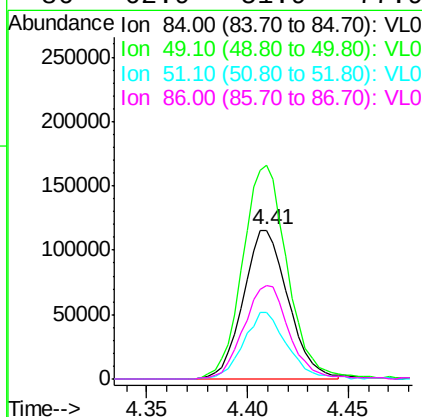
Manual Integrations
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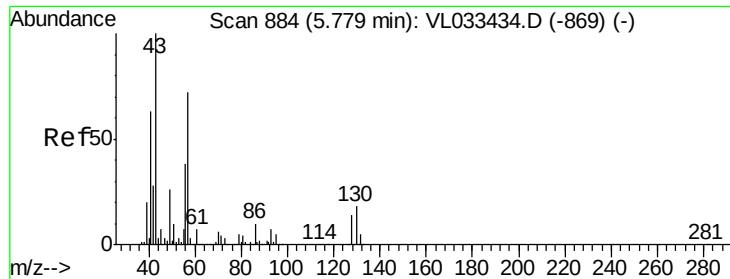
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#20
Methylene Chloride
Concen: 4.607 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Tgt Ion: 84 Resp: 180102
Ion Ratio Lower Upper
84 100
49 143.2 120.0 180.0
51 44.4 36.7 55.1
86 62.9 51.9 77.9





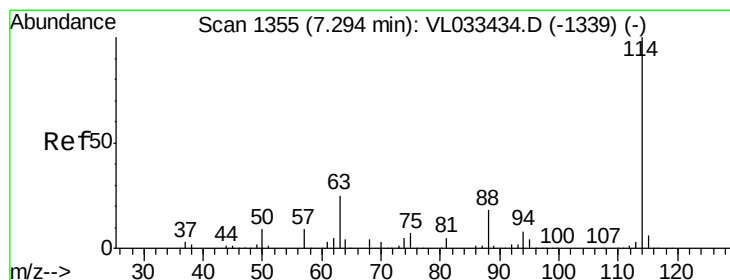
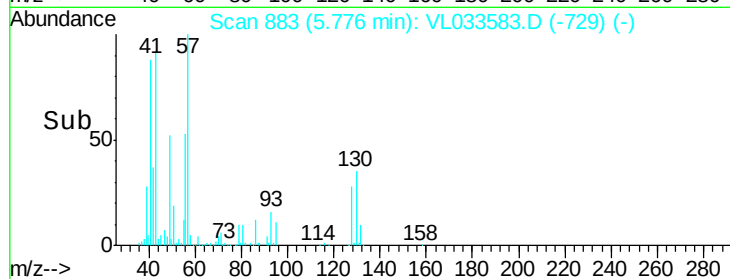
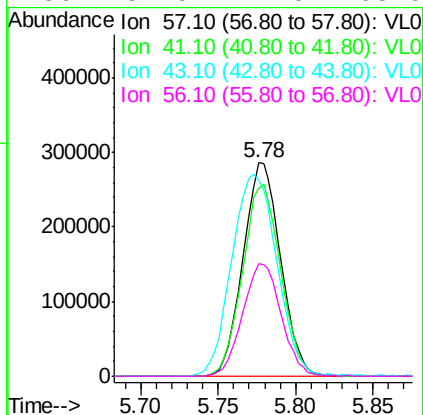
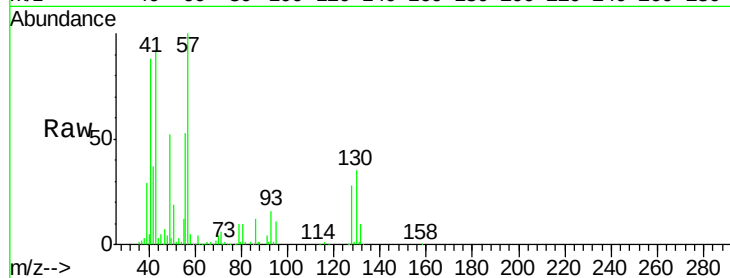
#26
Hexane
Concen: 6.353 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Instrument :
MSVOA_L
ClientSampleId :
A-10

Tot Ion	Ratio	Lower	Upper
57	100		
41	91.8	70.7	106.1
43	114.4	182.6	274.0#
56	54.0	42.0	63.0

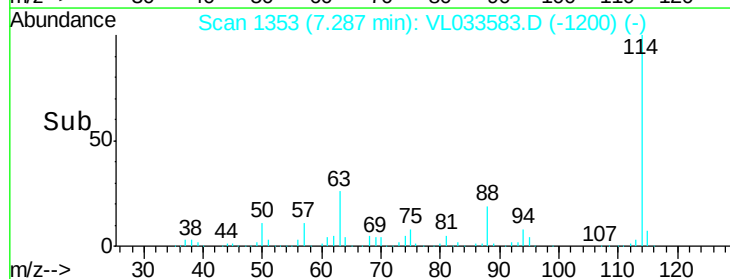
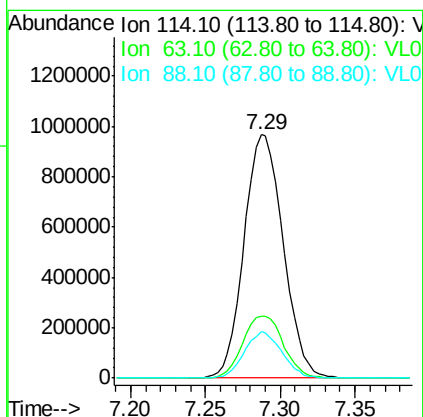
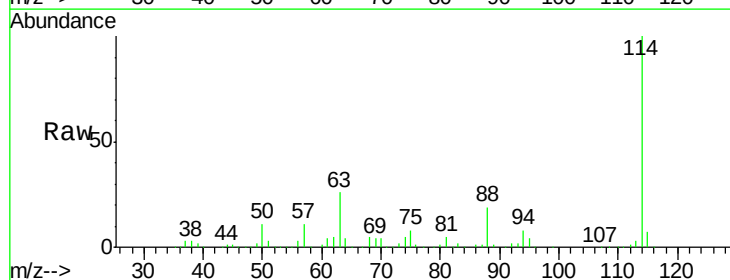
Manual Integrations
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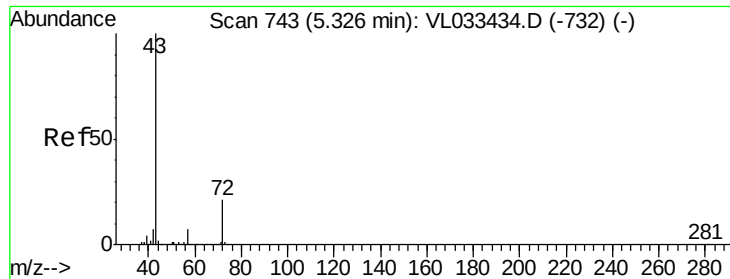
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.5	32.3
88	18.3	14.5	21.7





#34

2-Butanone

Concen: 0.266 ppbv

RT: 5.33 min Scan# 745

Delta R.T. 0.01 min

Lab File: VL033583.D

Acq: 11 Apr 2019 3:37

Instrument :

MSVOA_L

ClientSampleId :

A-10

Tot Ion: 43 Resp: 28188

Ion Ratio Lower Upper

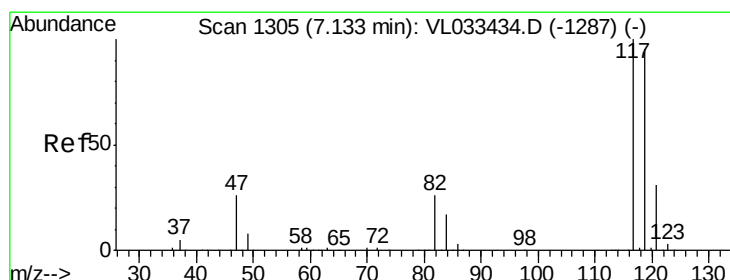
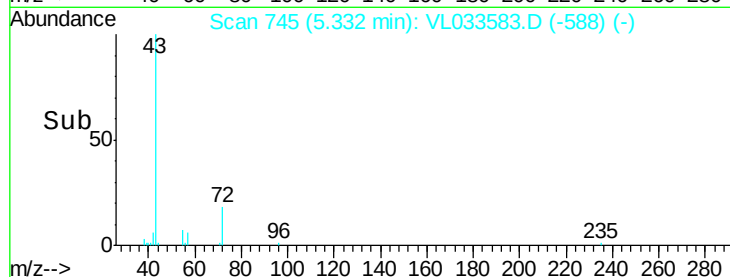
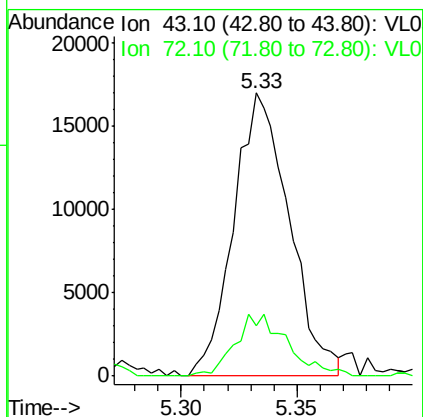
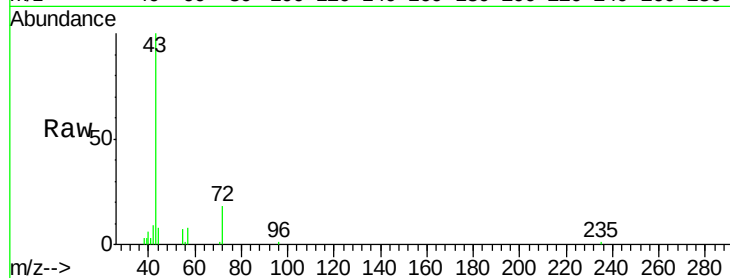
43 100

72 20.6 17.4 26.2

Manual Integrations
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#35

Carbon Tetrachloride

Concen: 0.058 ppbv m

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033583.D

Acq: 11 Apr 2019 3:37

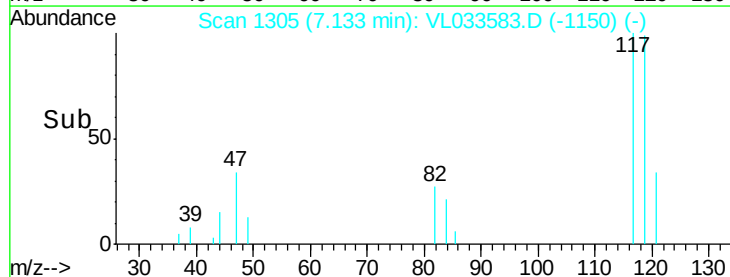
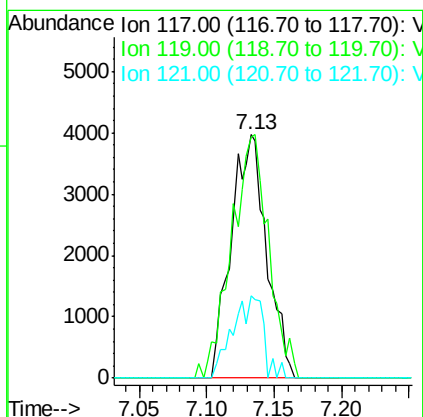
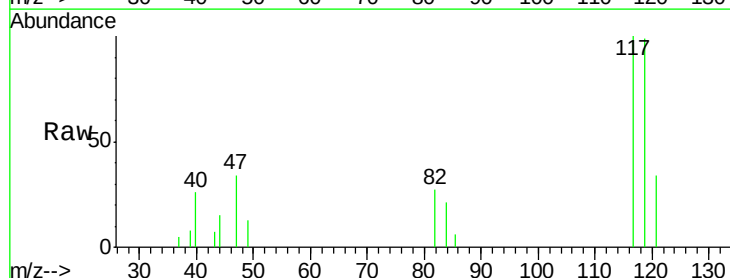
Tgt Ion: 117 Resp: 7213

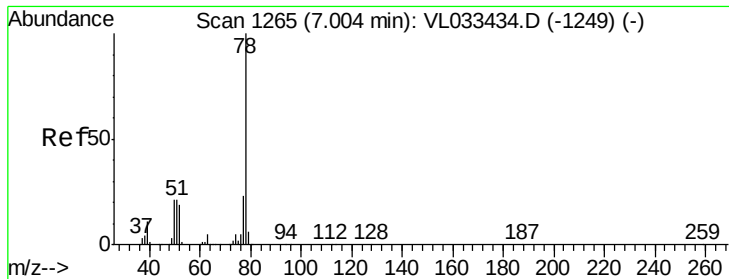
Ion Ratio Lower Upper

117 100

119 98.9 75.8 113.8

121 33.9 24.7 37.1





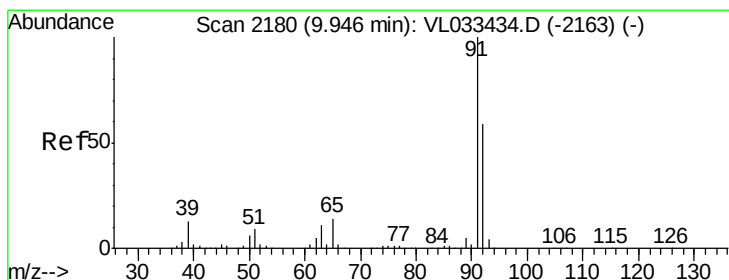
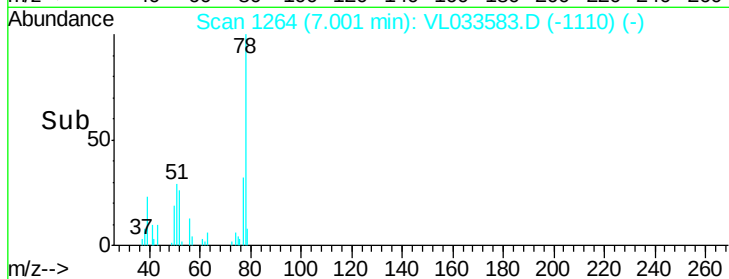
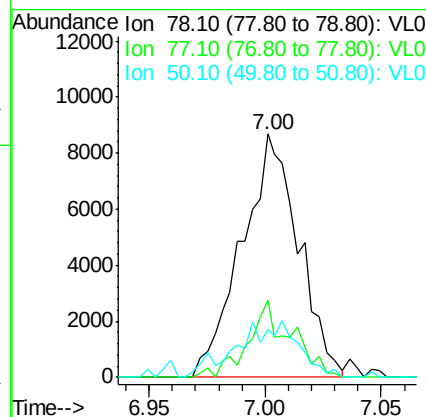
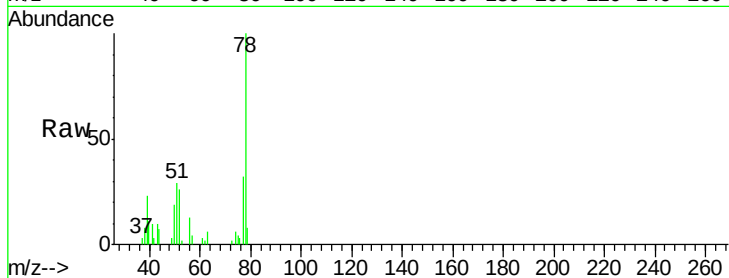
#36
Benzene
Concen: 0.100 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Instrument :
MSVOA_L
ClientSampled :
A-10

Tot Ion	Ratio	Lower	Upper
78	100		
77	31.5	18.1	27.1#
50	19.4	16.7	25.1

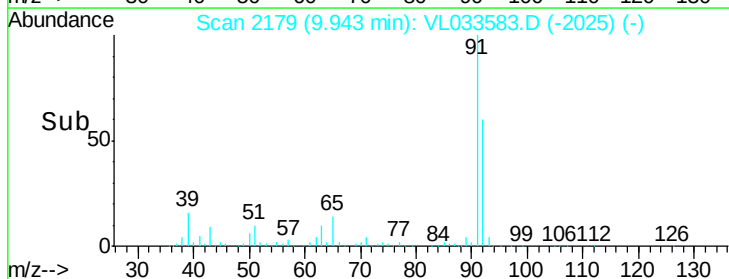
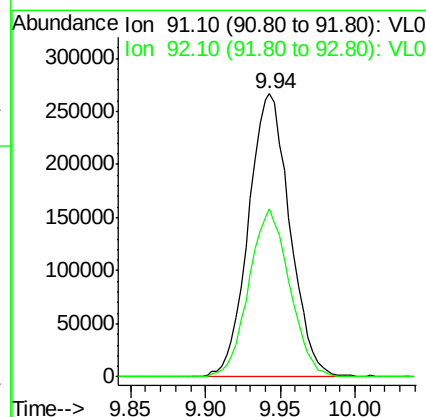
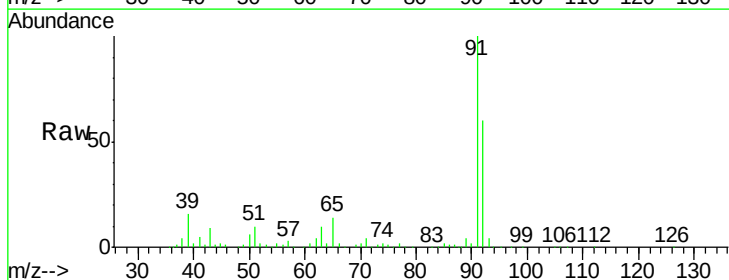
Manual Integrations
APPROVED

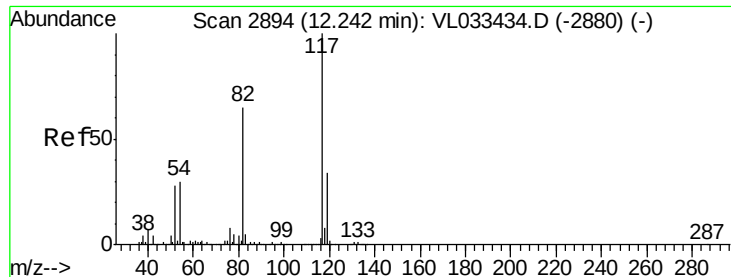
MMDadoda
4/11/2019 1:02:20 PM



#53
Toluene
Concen: 2.976 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.4	71.0





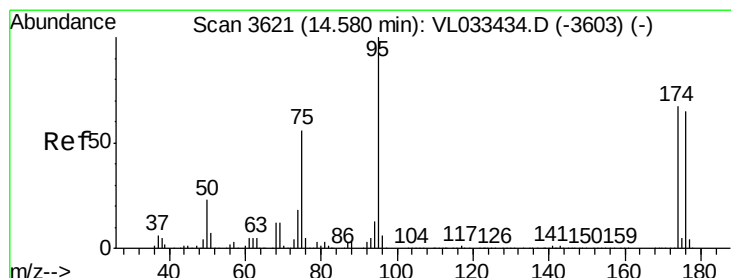
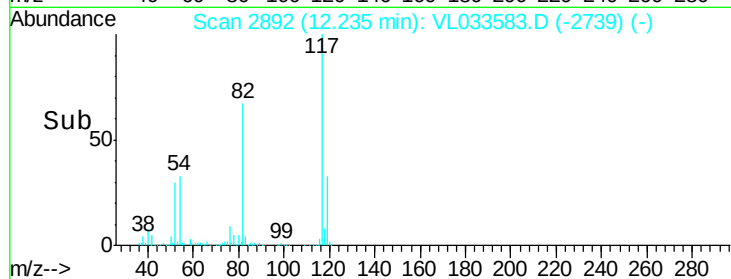
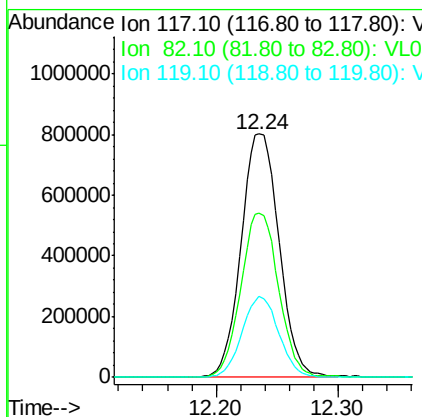
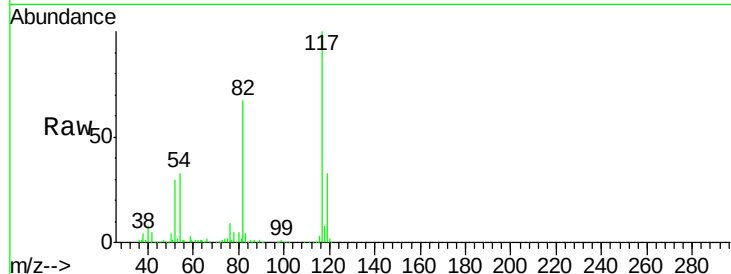
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Instrument :
MSVOA_L
ClientSampled :
A-10

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.7	51.5	77.3
119	32.3	25.5	38.3

Manual Integrations
APPROVED

MMDadoda
4/11/2019 1:02:20 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.248 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033583.D
Acq: 11 Apr 2019 3:37

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.9	52.9	79.3
175	4.9	3.8	5.6

