

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035641.D
 Acq On : 16 Sep 2020 23:04
 Operator : SY/AP
 Sample : L4036-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y03

Manual Integrations
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 9/17/2020 1:52:49 PM

Quant Time: Sep 17 10:44:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1052598	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4119276	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4136805	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3070496	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	47553	0.261	ppbv	94
3) Chlorodifluoromethane	2.98	51	37971	0.326	ppbv	94
4) Chloromethane	3.13	50	29317	0.470	ppbv	89
11) Trichlorofluoromethane	3.94	101	66192	0.249	ppbv	96
13) Ethanol	3.60	45	68245	6.133	ppbv	97
15) Acetone	3.85	43	301612	2.598	ppbv	95
19) Isopropyl Alcohol	3.98	45	18107	0.261	ppbv #	93
20) Methylene Chloride	4.34	84	97535	1.128	ppbv	93
26) Hexane	5.68	57	233885	2.013	ppbv #	48
27) Carbon Disulfide	4.55	76	81499	0.489	ppbv	97
34) 2-Butanone	5.26	43	24409	0.200	ppbv	97
35) Carbon Tetrachloride	7.02	117	14774	0.071	ppbv	95
38) Trichloroethene	7.83	130	6023m	0.039	ppbv	
52) Tetrachloroethene	11.23	164	31375	0.201	ppbv	95
53) Toluene	9.81	91	191824	0.572	ppbv	97

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

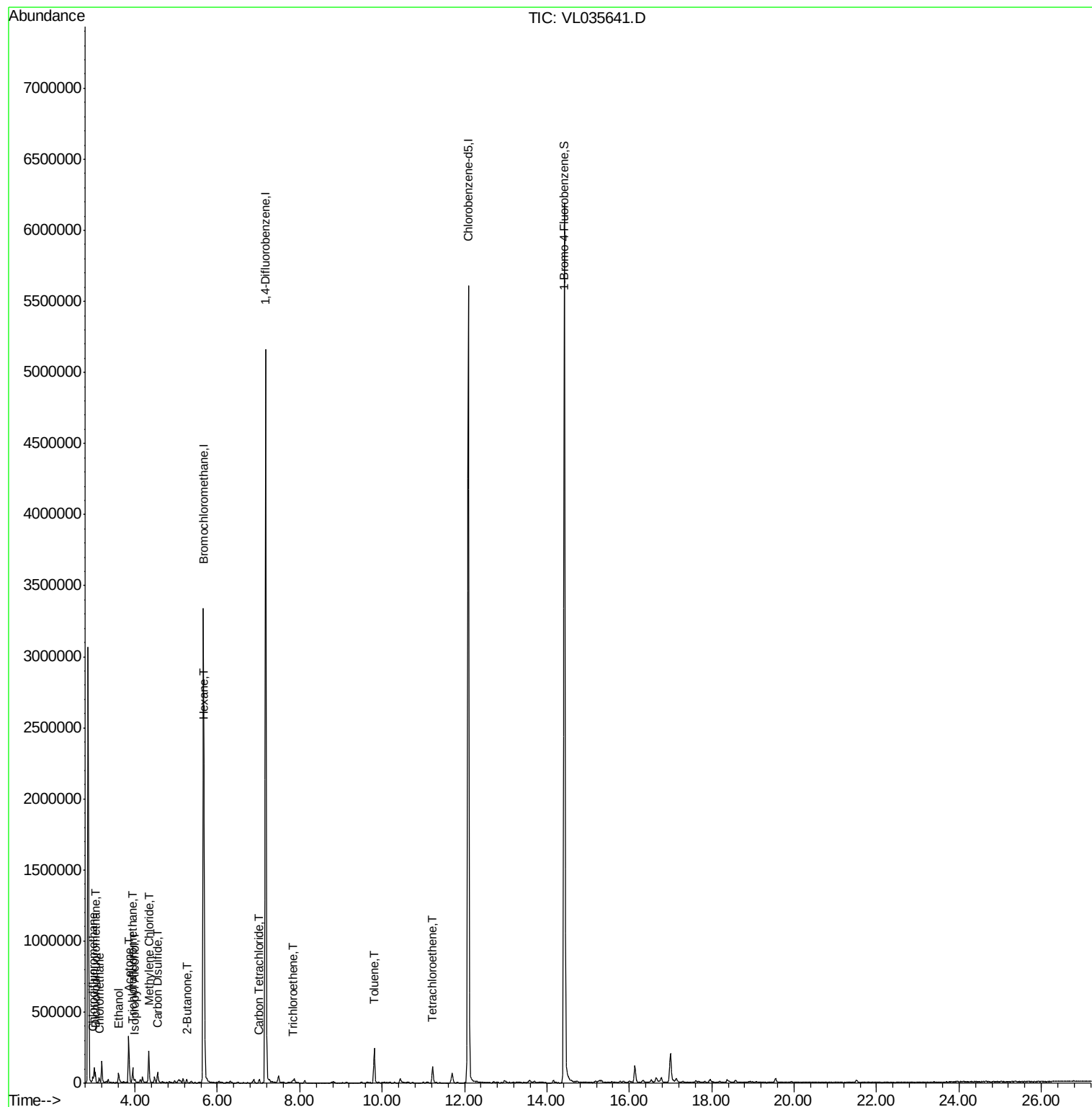
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035641.D
Acq On : 16 Sep 2020 23:04
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

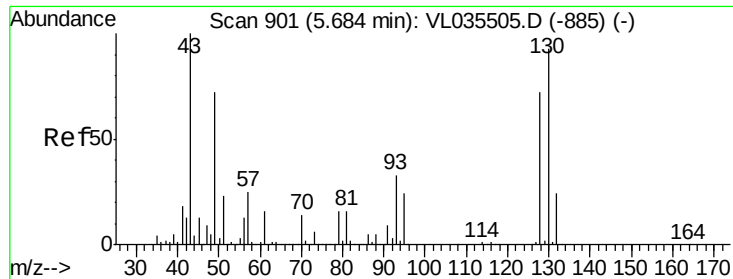
Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y03

Manual Integrations
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Quant Time: Sep 17 10:44:49 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





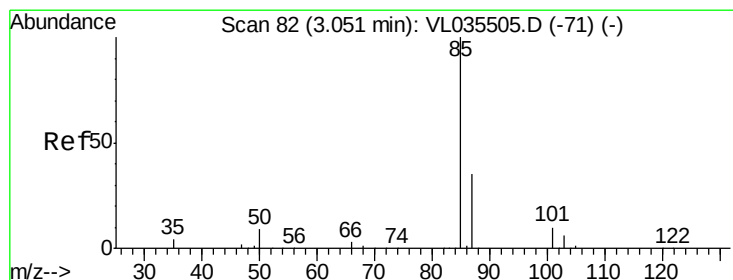
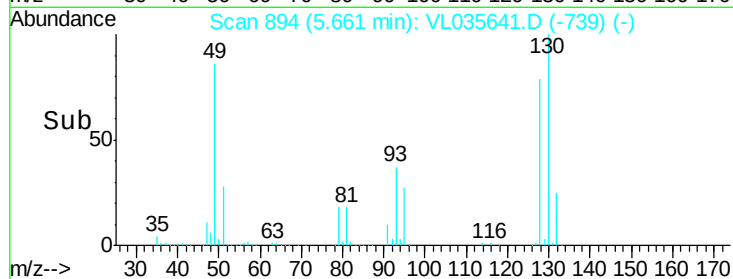
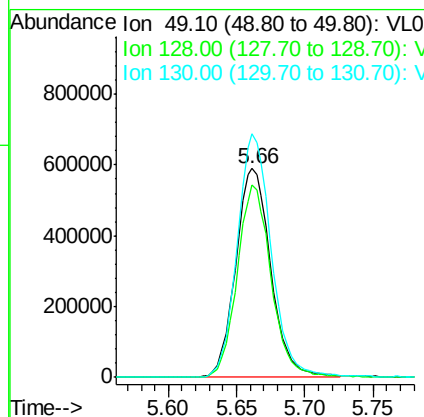
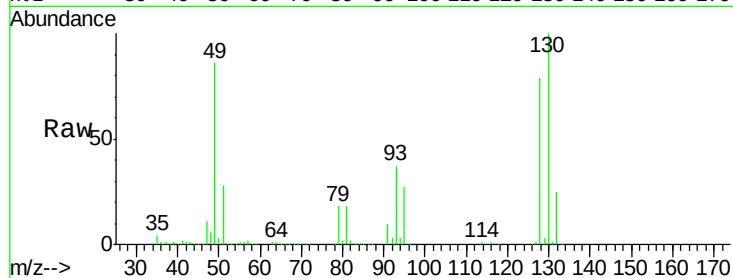
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL035641.D
Acq: 16 Sep 2020 23:04

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y03

Tot Ion: 49 Resp: 1052598
Ion Ratio Lower Upper
49 100
128 90.1 50.0 150.1
130 114.5 64.4 193.2

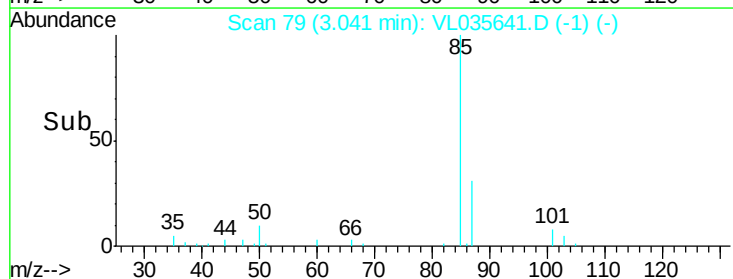
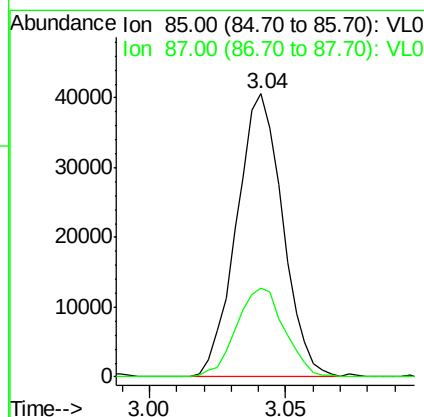
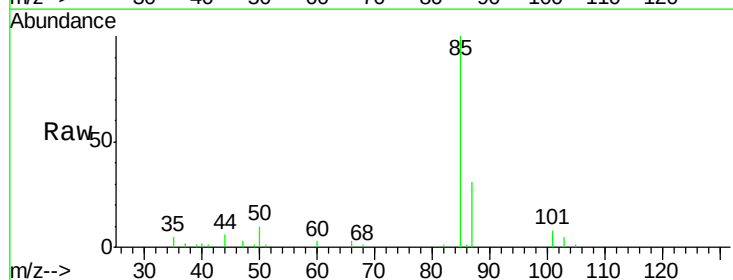
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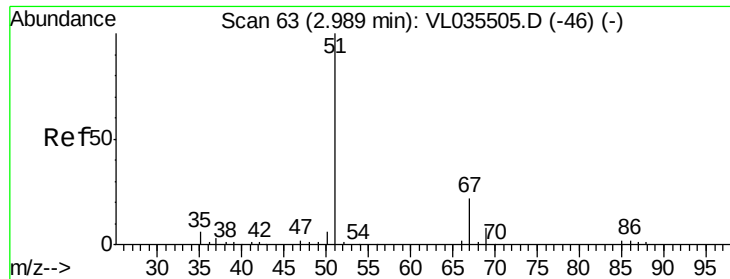
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#2
Dichlorodifluoromethane
Concen: 0.261 ppbv
RT: 3.04 min Scan# 79
Delta R.T. 0.01 min
Lab File: VL035641.D
Acq: 16 Sep 2020 23:04

Tgt Ion: 85 Resp: 47553
Ion Ratio Lower Upper
85 100
87 31.4 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.326 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035641.D

Acq: 16 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y03

Tot Ion: 51 Resp: 37971

Ion Ratio Lower Upper

51 100

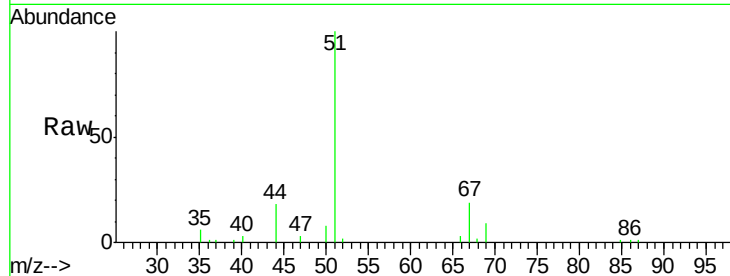
67 19.3 17.8 26.8

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

30000

25000

20000

15000

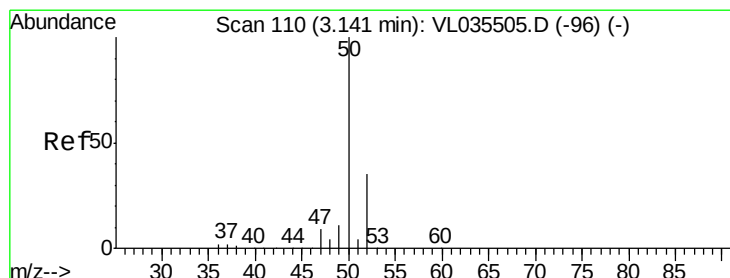
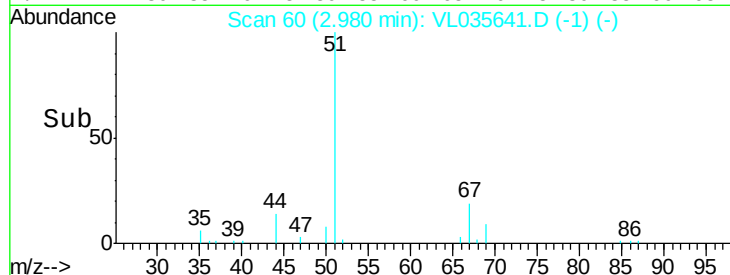
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5000

0

Time-->

2.90 3.00 3.10



#4

Chloromethane

Concen: 0.470 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL035641.D

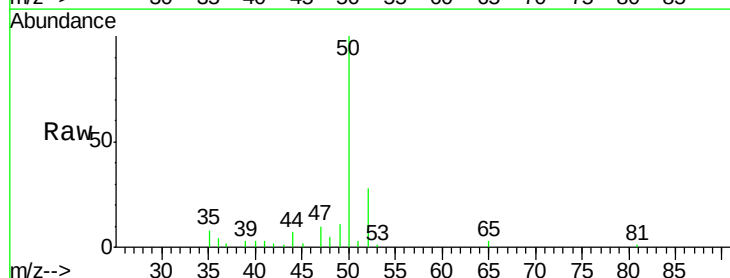
Acq: 16 Sep 2020 23:04

Tgt Ion: 50 Resp: 29317

Ion Ratio Lower Upper

50 100

52 28.1 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

20000

15000

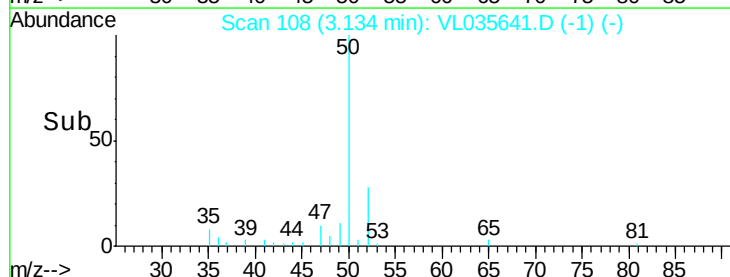
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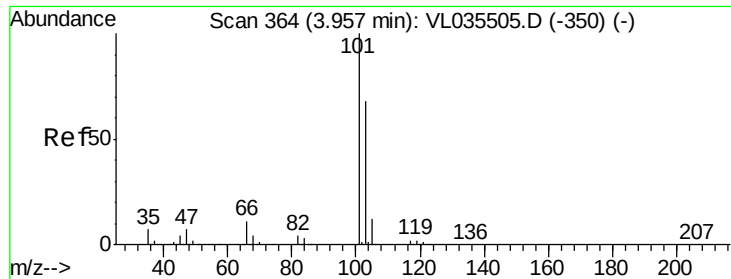
5000

0

Time-->

3.10 3.15





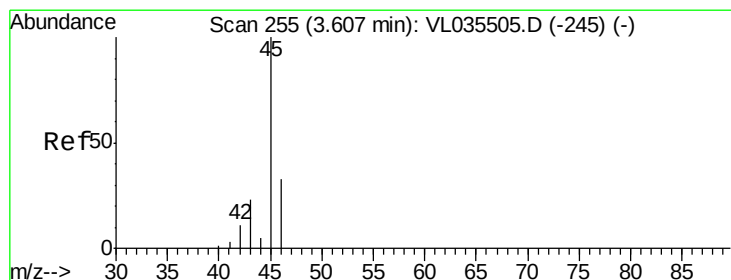
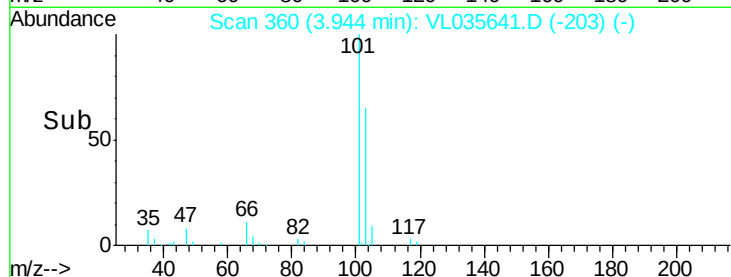
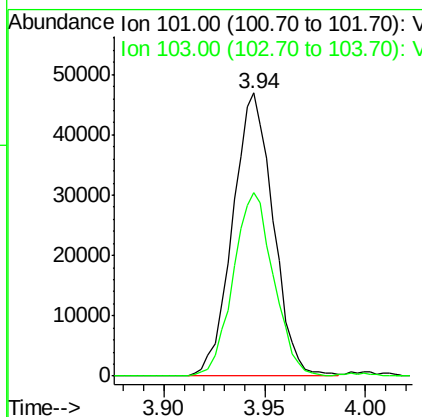
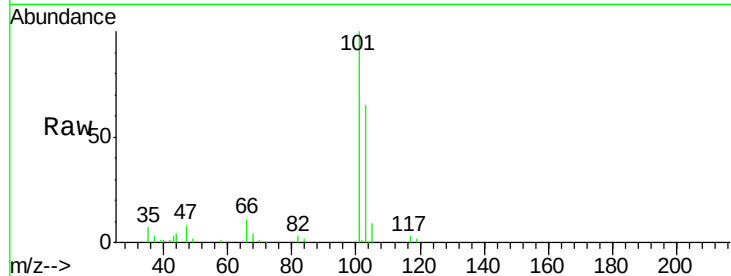
#11
 Trichlorofluoromethane
 Concen: 0.249 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL035641.D
 Acq: 16 Sep 2020 23:04

Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y03

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	54.5	81.7

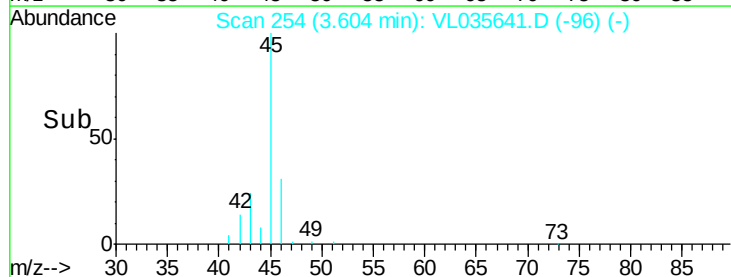
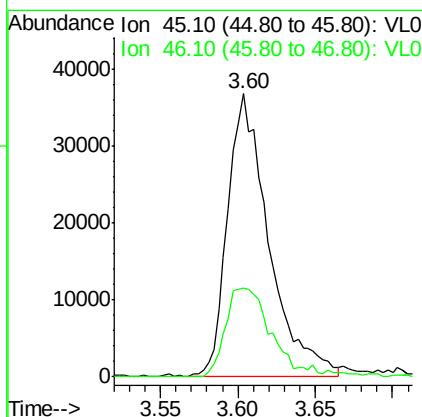
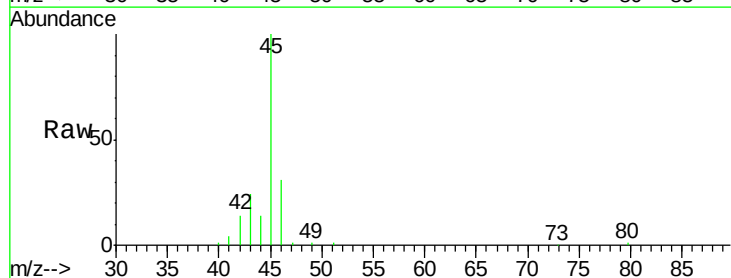
Manual Integrations
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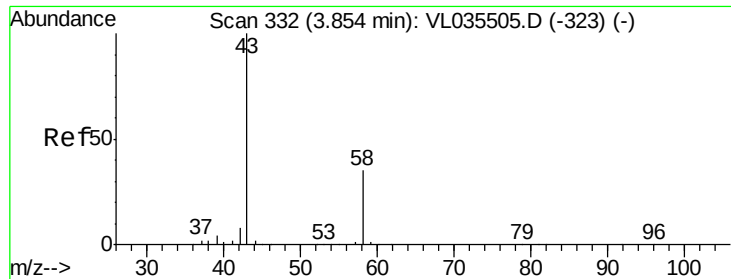
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#13
 Ethanol
 Concen: 6.133 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. 0.01 min
 Lab File: VL035641.D
 Acq: 16 Sep 2020 23:04

Tgt Ion	Ratio	Lower	Upper
45	100		
46	36.1	15.2	60.6





#15

Acetone

Concen: 2.598 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL035641.D

Acq: 16 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y03

Tot Ion: 43 Resp: 301612

Ion Ratio Lower Upper

43 100

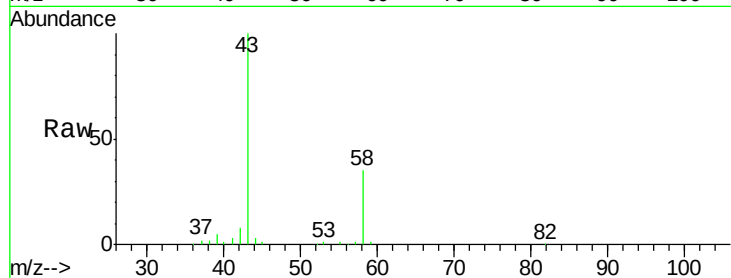
58 38.3 28.4 42.6

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

200000

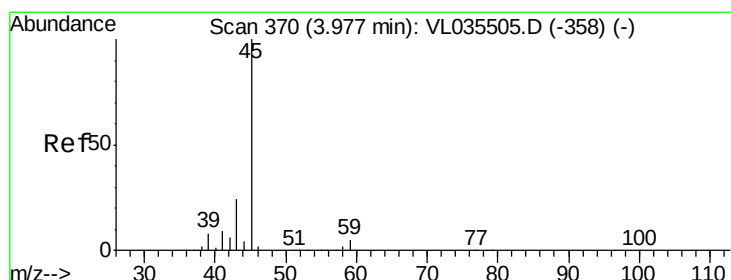
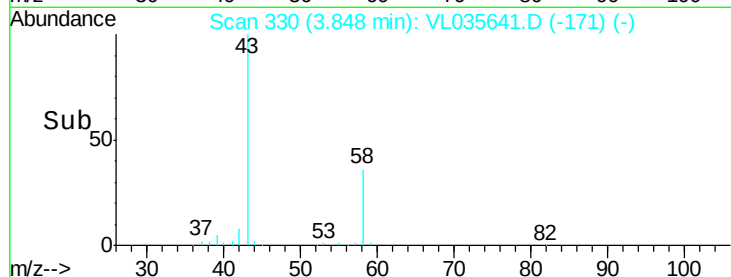
150000

100000

50000

0

Time-->



#19

Isopropyl Alcohol

Concen: 0.261 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL035641.D

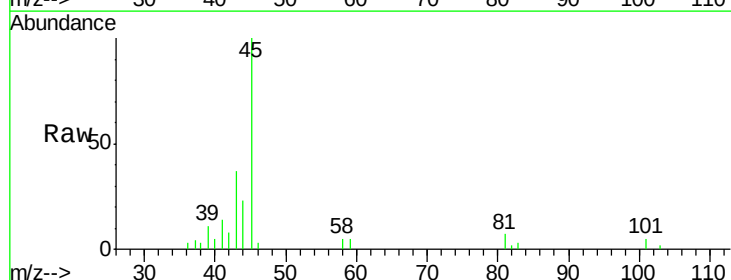
Acq: 16 Sep 2020 23:04

Tgt Ion: 45 Resp: 18107

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

10000

8000

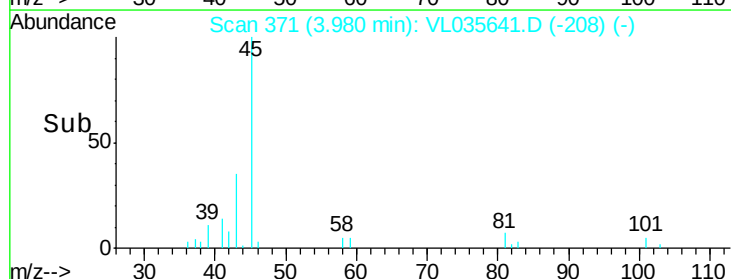
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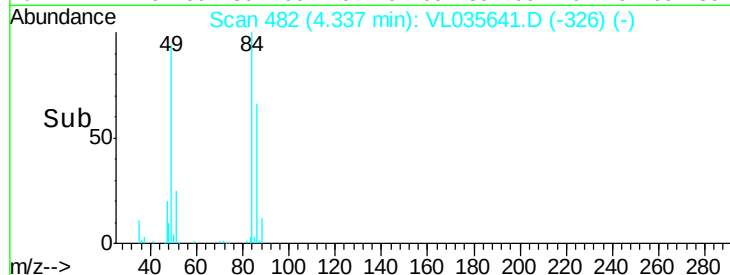
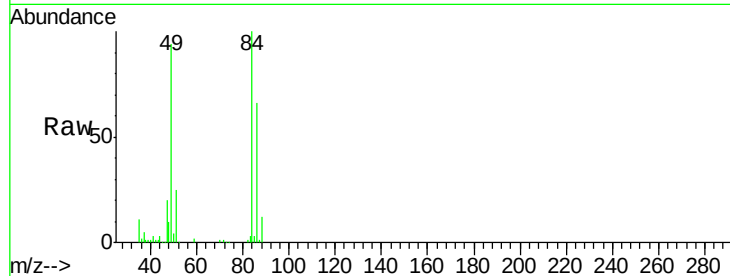
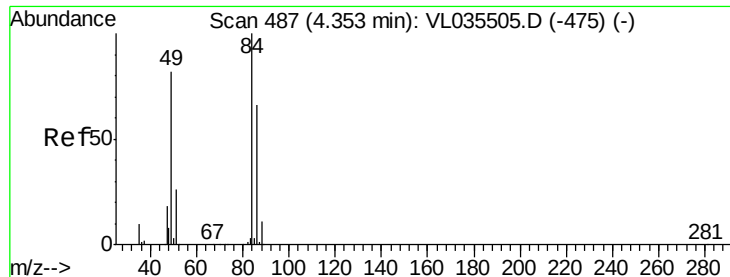
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2000

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Time-->





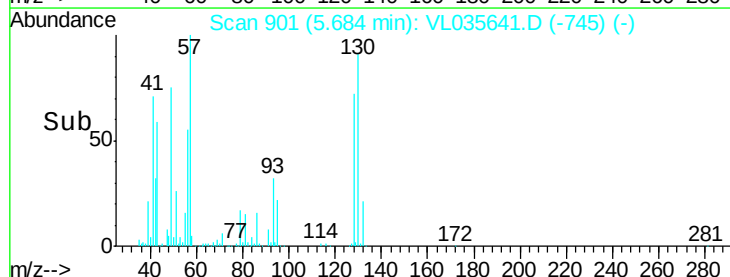
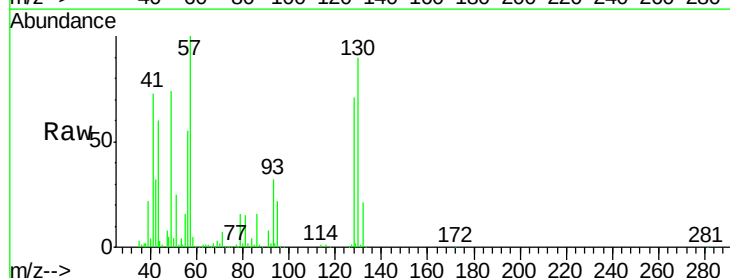
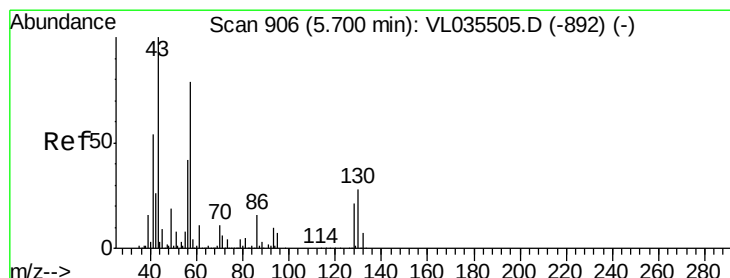
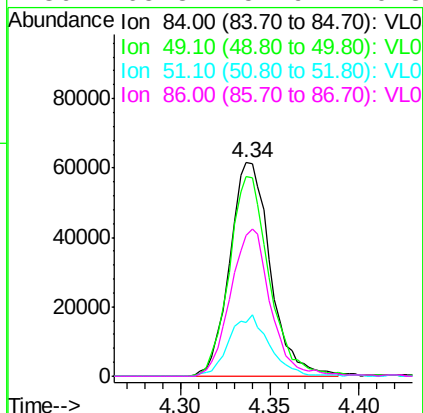
#20
Methylene Chloride
Concen: 1.128 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.00 min
Lab File: VL035641.D
Acq: 16 Sep 2020 23:04

Tot Ion	84	Resp	97535
Ion Ratio	Lower	Upper	
84	100		
49	93.7	65.4	98.0
51	25.2	21.5	32.3
86	65.8	52.9	79.3

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y03

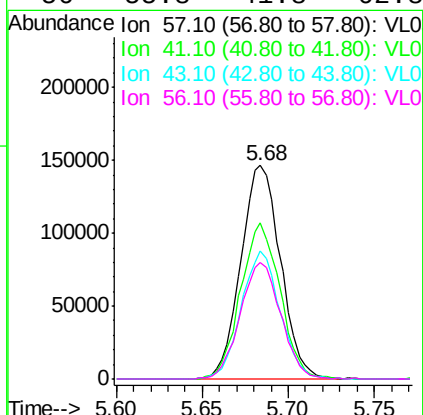
Manual Integrations
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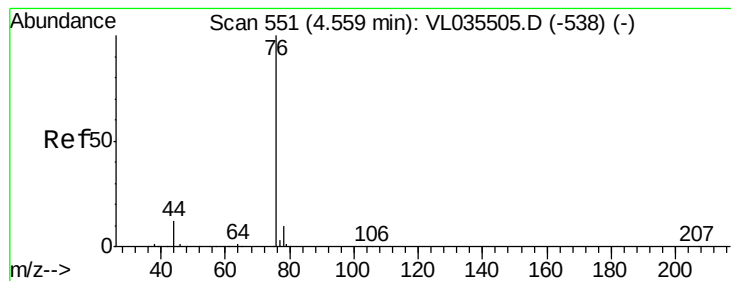
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#26
Hexane
Concen: 2.013 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL035641.D
Acq: 16 Sep 2020 23:04

Tgt Ion	57	Resp	233885
Ion Ratio	Lower	Upper	
57	100		
41	73.1	55.9	83.9
43	59.1	141.8	212.8#
56	55.8	41.8	62.8





#27

Carbon Disulfide

Concen: 0.489 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.00 min

Lab File: VL035641.D

Acq: 16 Sep 2020 23:04

Instrument :

MSVOA_L

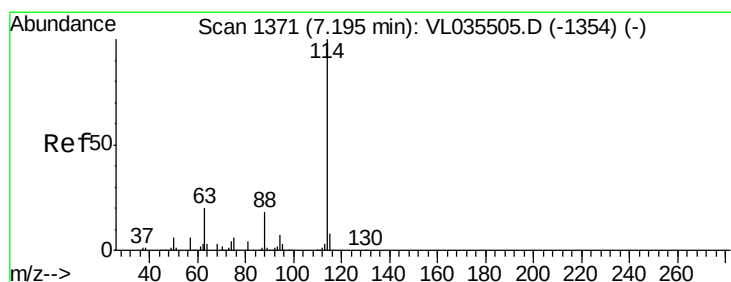
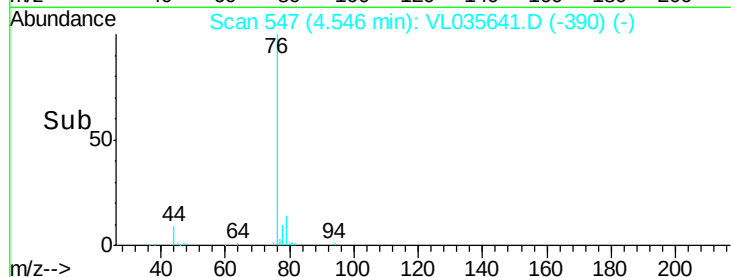
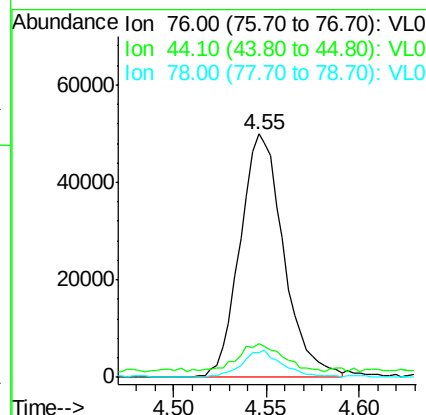
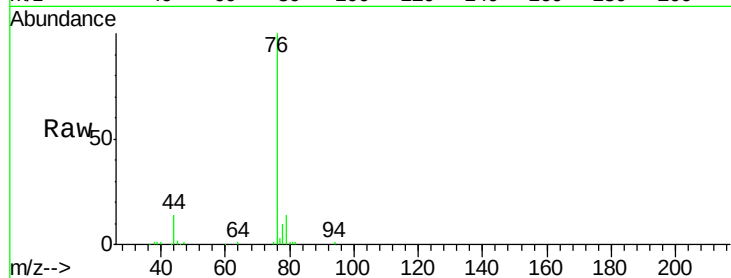
ClientSampleId :

DB-IA-Y03

Tot Ion:	76	Resp:	81499
Ion	Ratio	Lower	Upper
76	100		
44	12.5	9.3	13.9
78	10.8	7.8	11.6

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

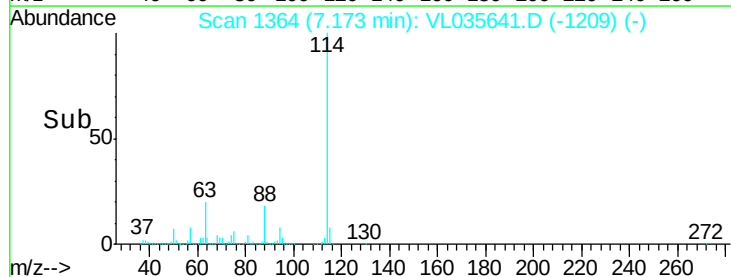
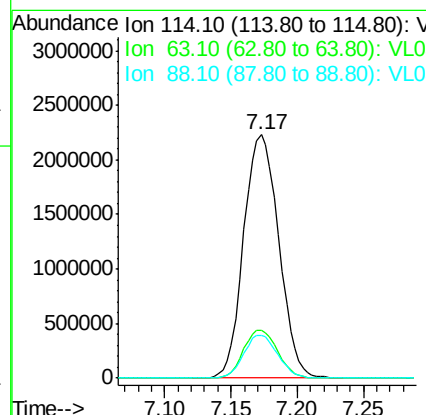
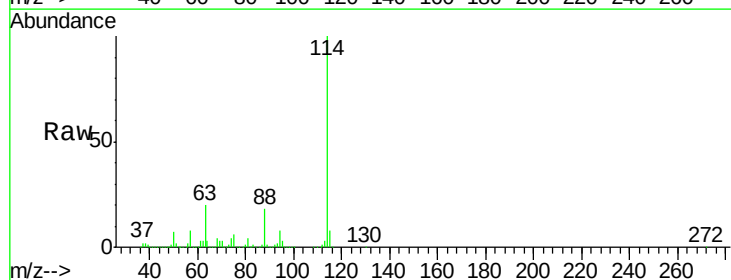
RT: 7.17 min Scan# 1364

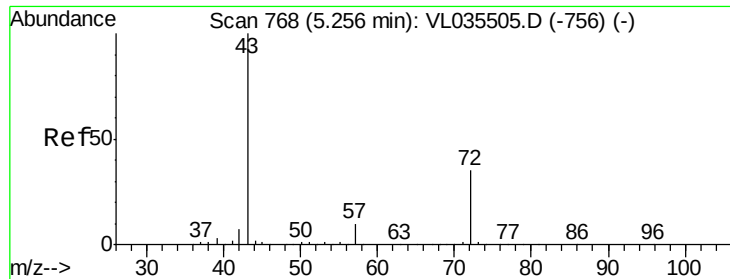
Delta R.T. -0.00 min

Lab File: VL035641.D

Acq: 16 Sep 2020 23:04

Tgt Ion:	114	Resp:	4119276
Ion	Ratio	Lower	Upper
114	100		
63	19.4	14.7	22.1
88	17.1	13.4	20.2





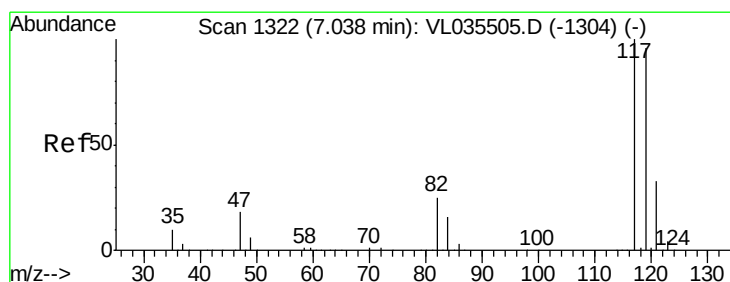
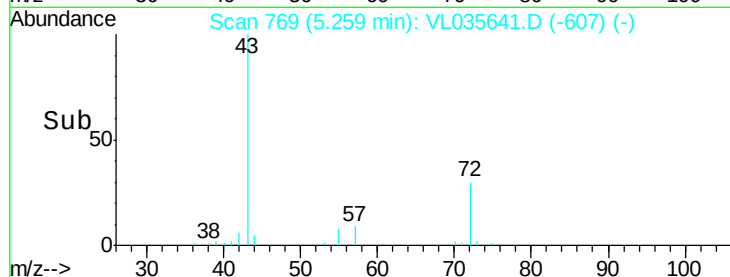
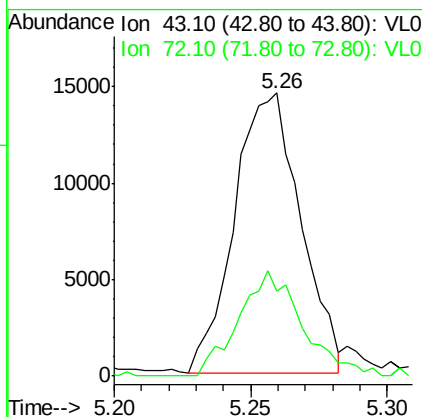
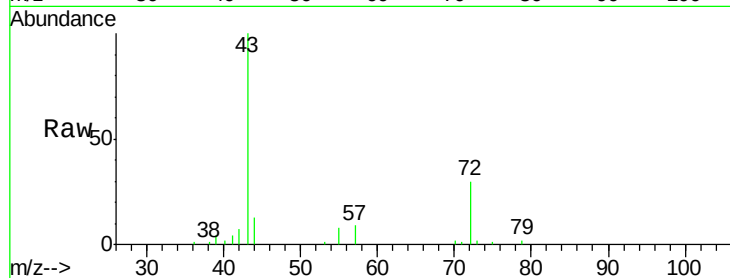
#34
2-Butanone
Concen: 0.200 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.02 min
Lab File: VL035641.D
Acq: 16 Sep 2020 23:04

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y03

Tot Ion: 43 Resp: 24409
Ion Ratio Lower Upper
43 100
72 36.5 27.7 41.5

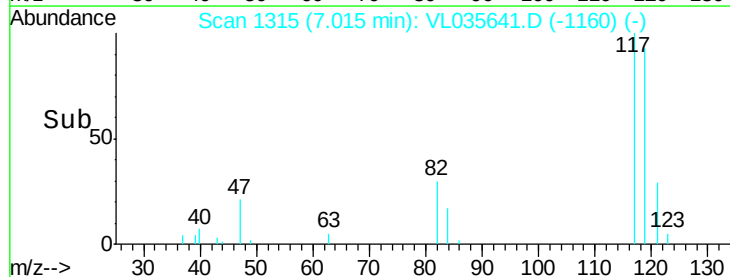
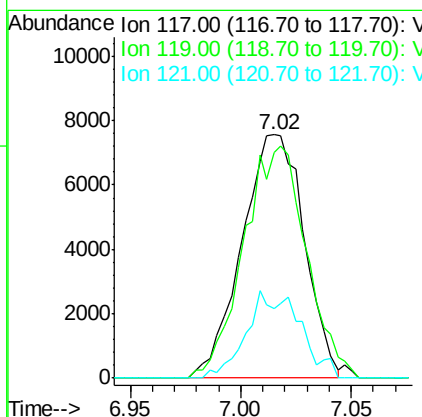
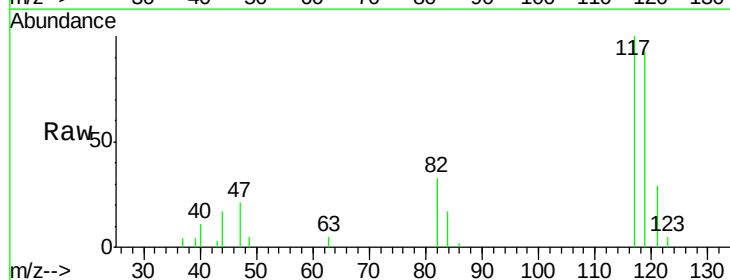
Manual Integrations
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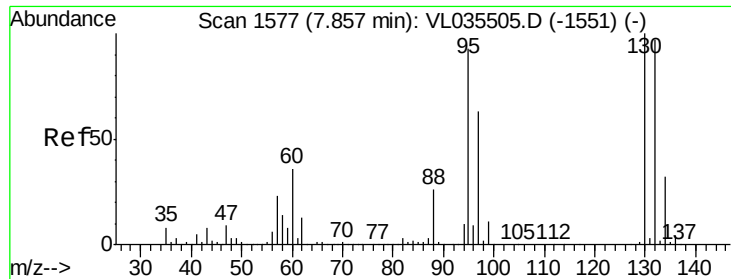
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#35
Carbon Tetrachloride
Concen: 0.071 ppbv
RT: 7.02 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VL035641.D
Acq: 16 Sep 2020 23:04

Tgt Ion: 117 Resp: 14774
Ion Ratio Lower Upper
117 100
119 92.6 77.2 115.8
121 28.6 26.1 39.1





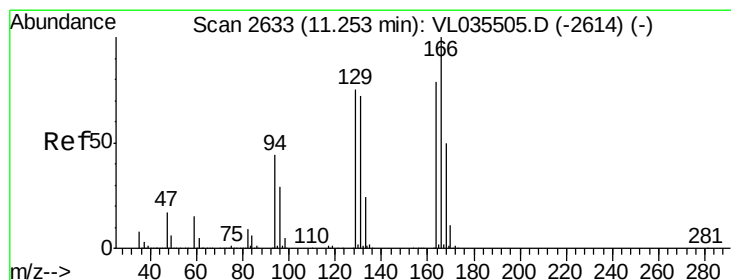
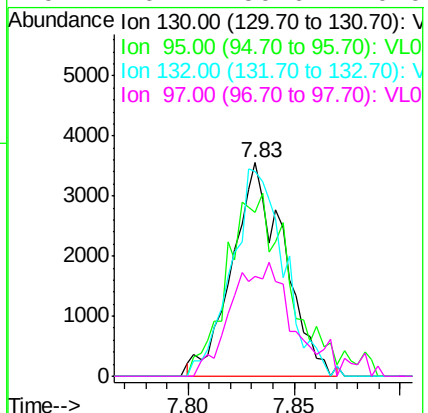
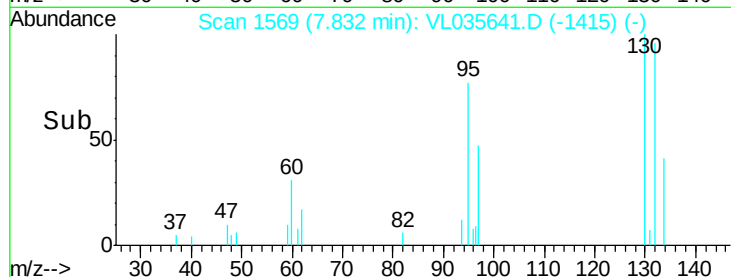
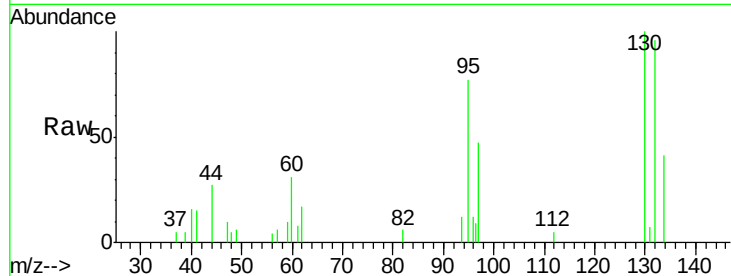
#38
 Trichloroethene
 Concen: 0.039 ppbv m
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VL035641.D
 Acq: 16 Sep 2020 23:04

Instrument :
 MSVOA_L
 ClientSampled :
 DB-IA-Y03

Tot Ion:	130	Resp:	6023
Ion	Ratio	Lower	Upper
130	100		
95	76.6	74.6	112.0
132	96.2	77.6	116.4
97	46.7	50.6	76.0#

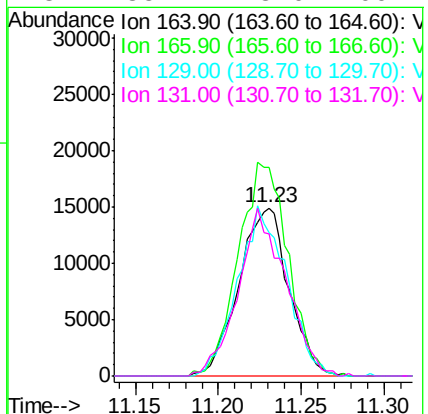
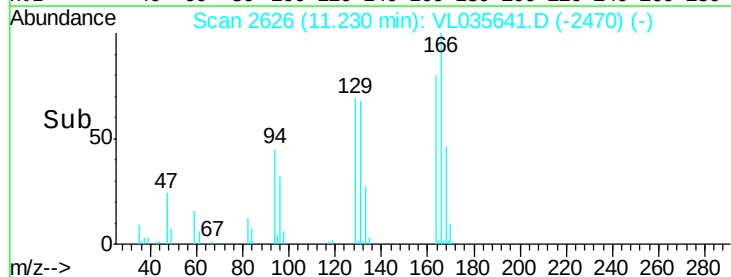
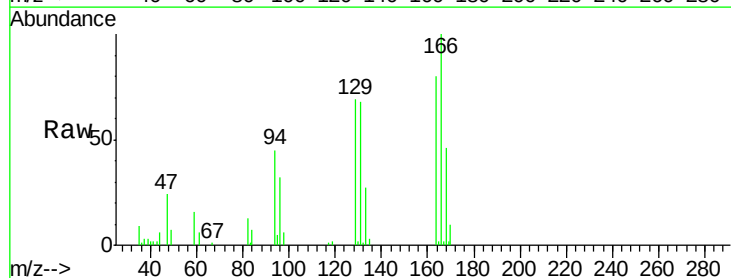
Manual Integrations
 APPROVED

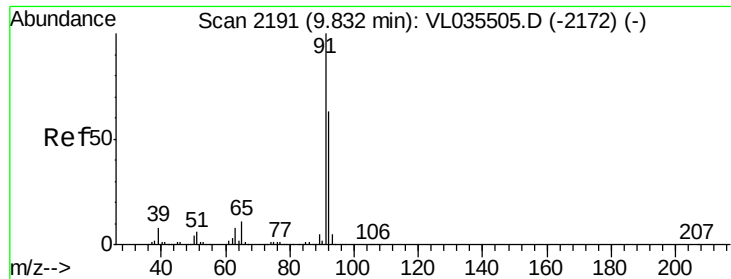
MMDadoda
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#52
 Tetrachloroethene
 Concen: 0.201 ppbv
 RT: 11.23 min Scan# 2626
 Delta R.T. 0.00 min
 Lab File: VL035641.D
 Acq: 16 Sep 2020 23:04

Tgt Ion:	164	Resp:	31375
Ion	Ratio	Lower	Upper
164	100		
166	124.7	100.9	151.3
129	85.8	75.3	112.9
131	85.1	73.0	109.4





#53

Toluene

Concen: 0.572 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035641.D

Acq: 16 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y03

Tot Ion: 91 Resp: 191824

Ion Ratio Lower Upper

91 100

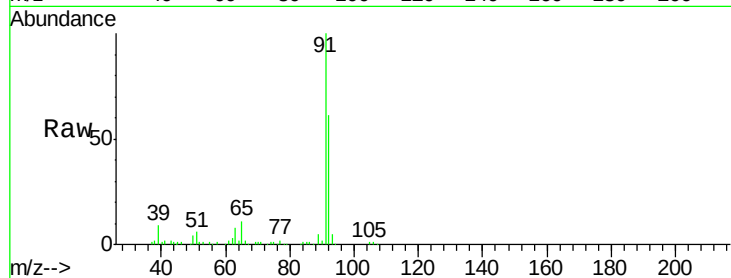
92 60.1 49.8 74.8

Manual Integrations

APPROVED

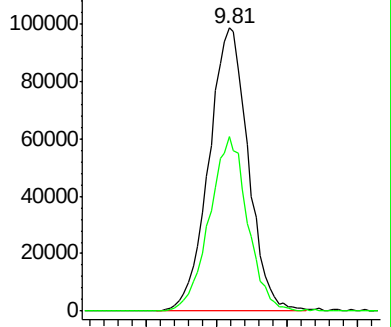
MMDadoda

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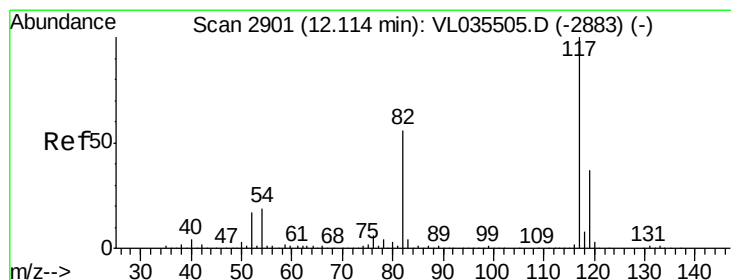
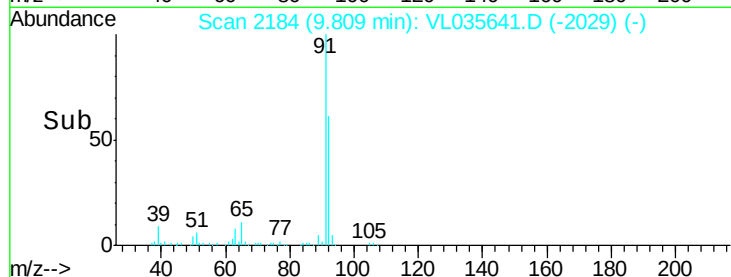


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL035641.D

Acq: 16 Sep 2020 23:04

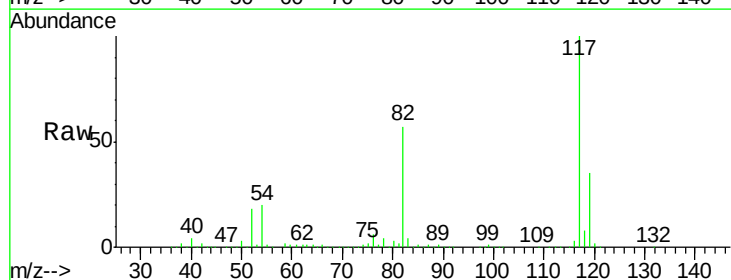
Tgt Ion: 117 Resp: 4136805

Ion Ratio Lower Upper

117 100

82 57.2 41.6 62.4

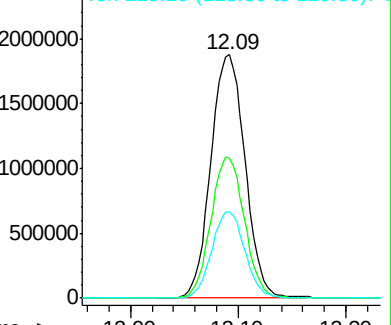
119 34.6 29.3 43.9



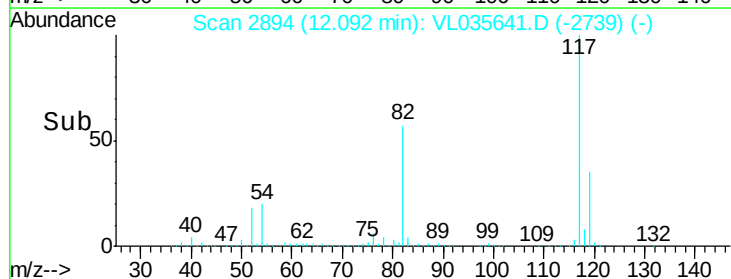
Abundance Ion 117.10 (116.80 to 117.80): V

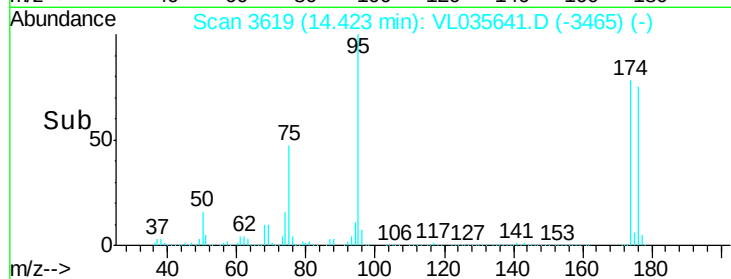
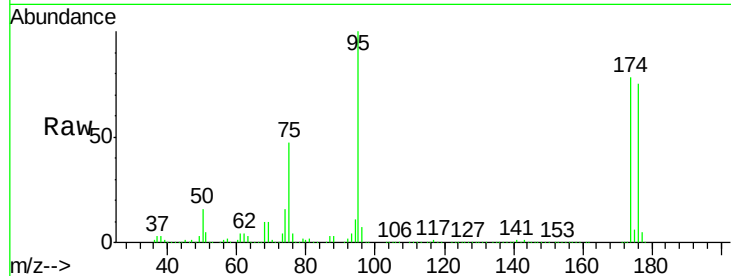
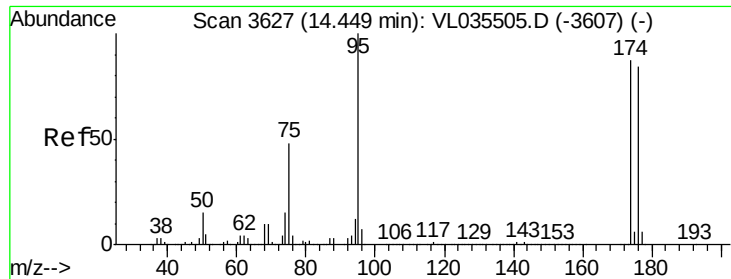
Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 10.452 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL035641.D

Acq: 16 Sep 2020 23:04

Tot Ion: 95 Resp: 3070496

Ion Ratio Lower Upper

95 100

174 79.1 69.6 104.4

175 5.7 5.1 7.7

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y03

Manual Integrations

APPROVED

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