

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037191.D
 Acq On : 17 Jun 2021 4:58
 Operator : SY/AP
 Sample : M2742-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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 6/17/2021 5:38:50 PM

Quant Time: Jun 17 16:02:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 17 16:02:55 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1443807	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4252431	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3731462	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2789612	9.87	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	54606	0.217	ppbv	# 81
3) Chlorodifluoromethane	2.99	51	95520m	0.340	ppbv	
4) Chloromethane	3.14	50	49813m	0.532	ppbv	
9) Propene	3.01	41	42938m	0.478	ppbv	
11) Trichlorofluoromethane	3.95	101	52647	0.196	ppbv	97
13) Ethanol	3.61	45	331296	23.858	ppbv	52
15) Acetone	3.85	43	719828	4.421	ppbv	100
19) Isopropyl Alcohol	3.98	45	280712m	2.847	ppbv	
20) Methylene Chloride	4.35	84	181374	1.861	ppbv	98
26) Hexane	5.68	57	131677	0.739	ppbv	# 52
34) 2-Butanone	5.26	43	71436	0.432	ppbv	96
35) Carbon Tetrachloride	7.02	117	15275	0.054	ppbv	84
52) Tetrachloroethene	11.22	164	28113m	0.176	ppbv	
53) Toluene	9.81	91	143245m	0.349	ppbv	
59) m/p-Xylene	12.97	91	66932m	0.154	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	46289m	0.099	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	64033m	0.225	ppbv	

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

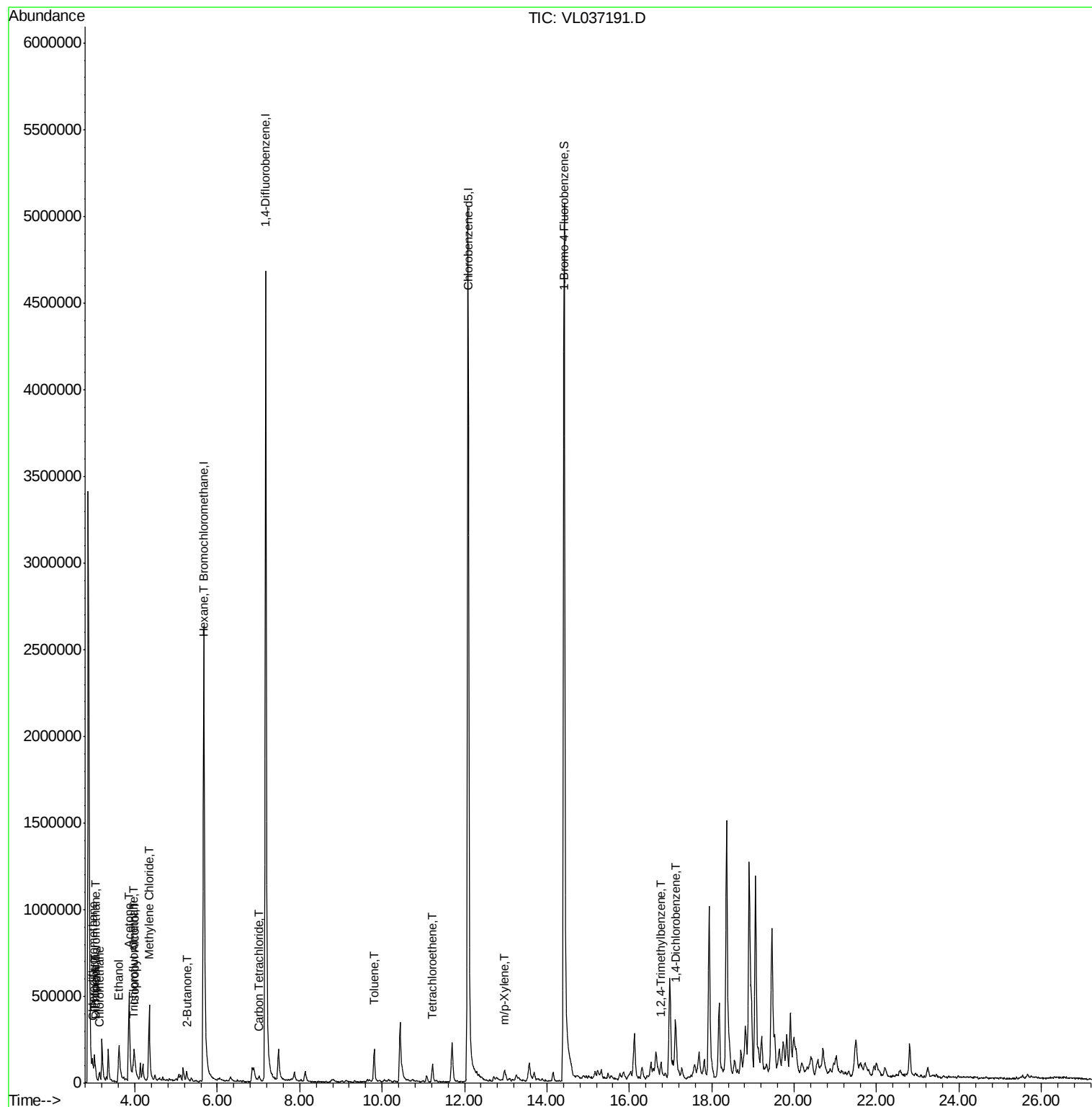
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Data File : VL037191.D
Acq On : 17 Jun 2021 4:58
Operator : SY/AP
Sample : M2742-03
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

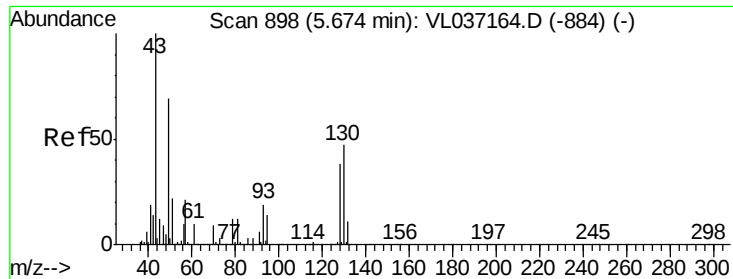
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

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Quant Time: Jun 17 16:02:55 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





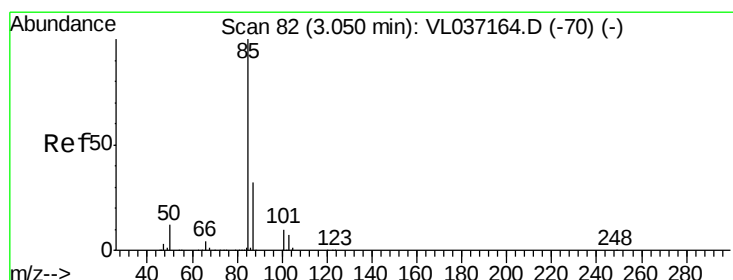
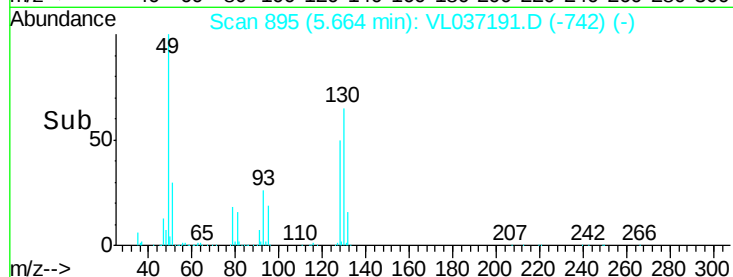
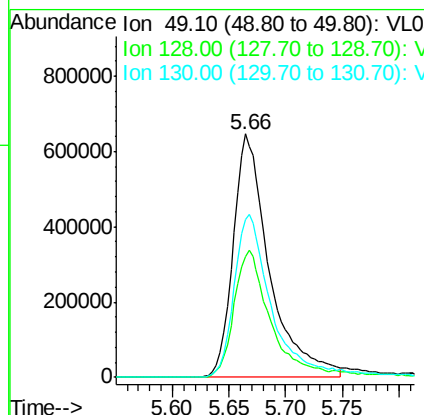
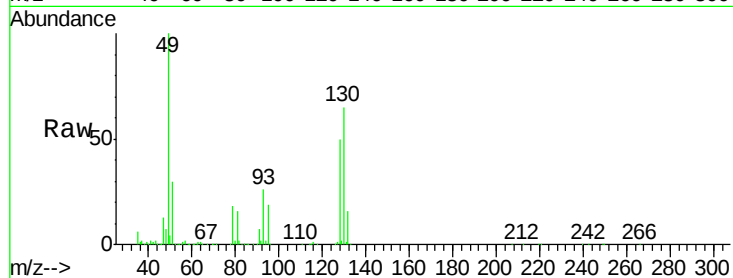
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 49 Resp: 1443807
Ion Ratio Lower Upper
49 100
128 54.7 29.3 88.0
130 72.5 35.9 107.8

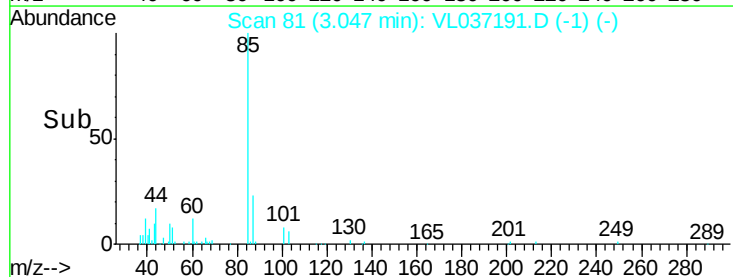
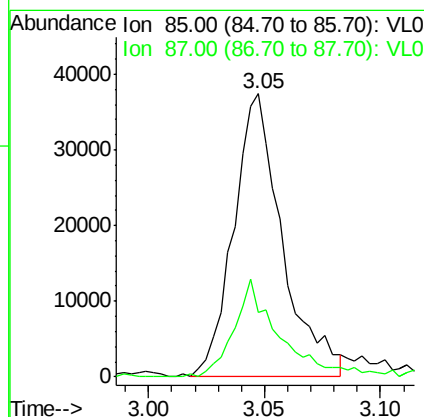
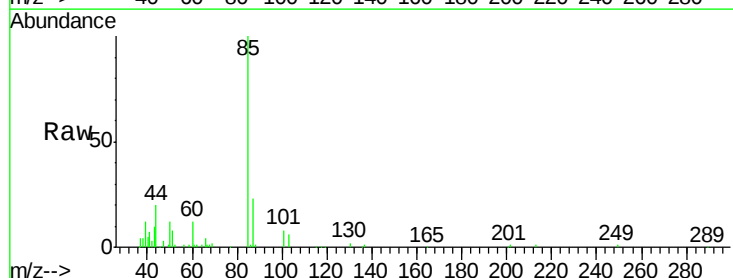
Manual Integrations
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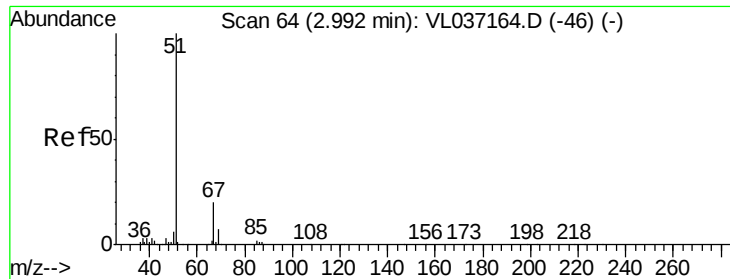
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#2
Dichlorodifluoromethane
Concen: 0.217 ppbv
RT: 3.05 min Scan# 81
Delta R.T. -0.00 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Tgt Ion: 85 Resp: 54606
Ion Ratio Lower Upper
85 100
87 21.9 25.8 38.6#





#3

Chlorodifluoromethane

Concen: 0.340 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL037191.D

Acq: 17 Jun 2021 4:58

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 51 Resp: 95520

Ion Ratio Lower Upper

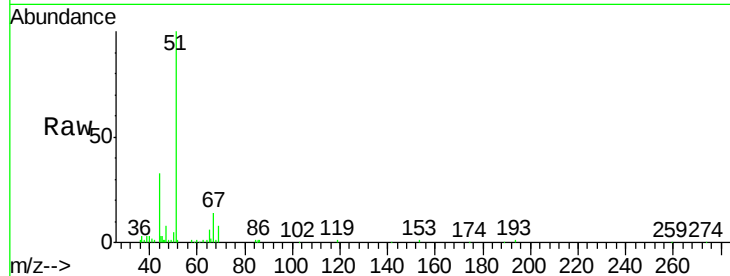
51 100

67 15.3 15.8 23.6#

Manual Integrations
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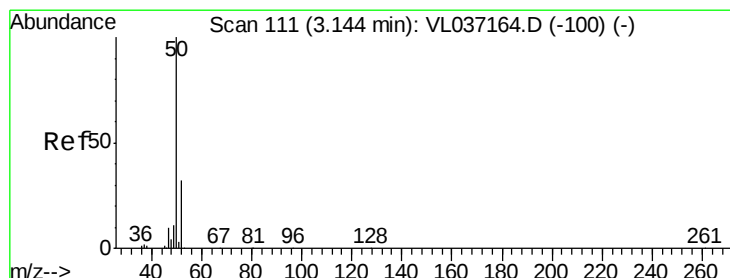
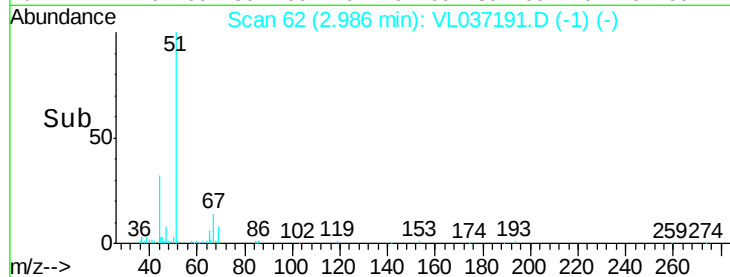
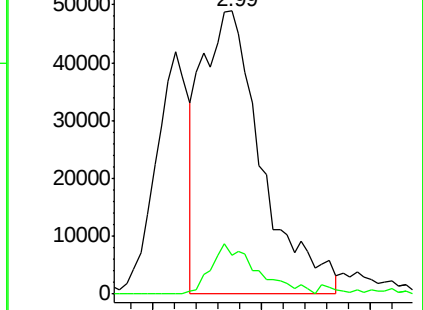
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.532 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037191.D

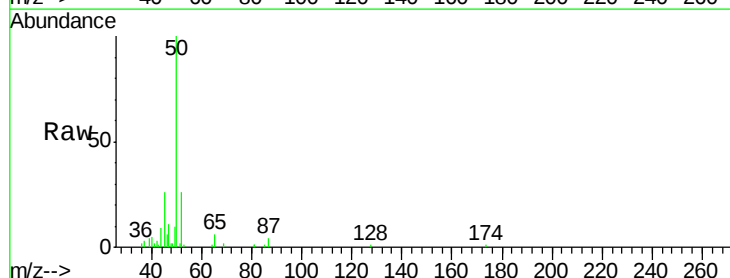
Acq: 17 Jun 2021 4:58

Tgt Ion: 50 Resp: 49813

Ion Ratio Lower Upper

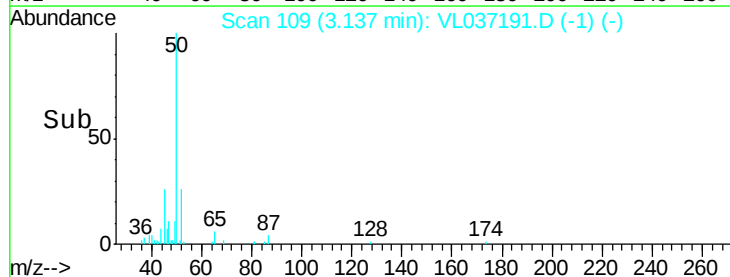
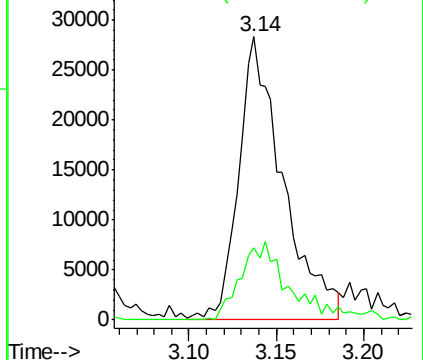
50 100

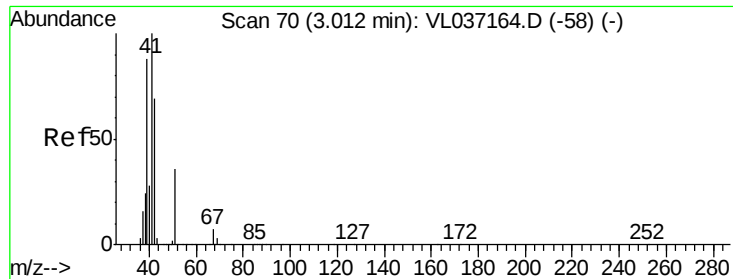
52 25.7 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.478 ppbv m

RT: 3.01 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL037191.D

Acq: 17 Jun 2021 4:58

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 41 Resp: 42938

Ion Ratio Lower Upper

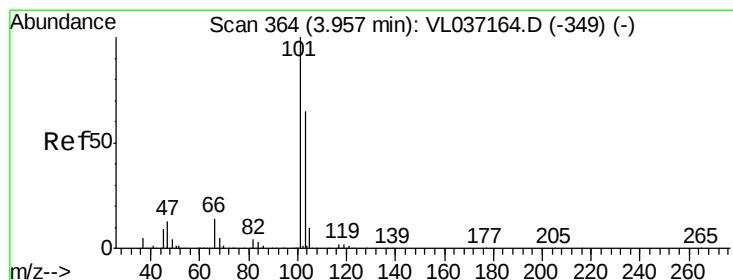
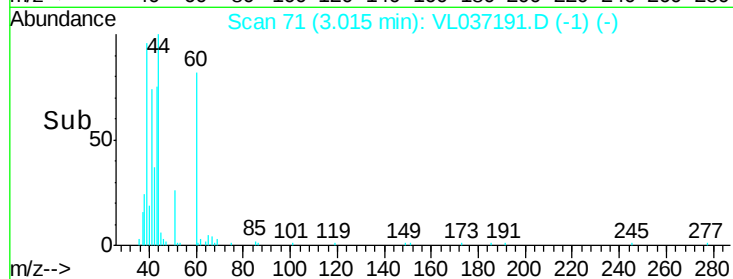
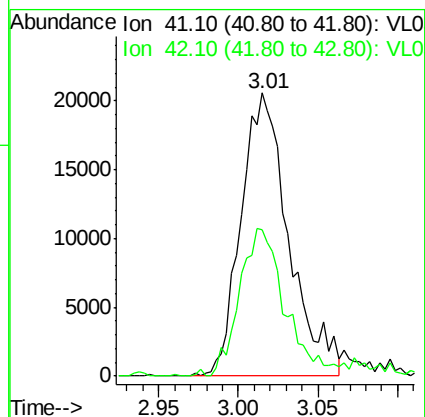
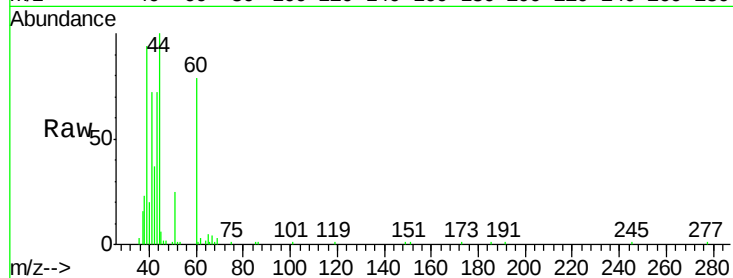
41 100

42 122.3 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.196 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL037191.D

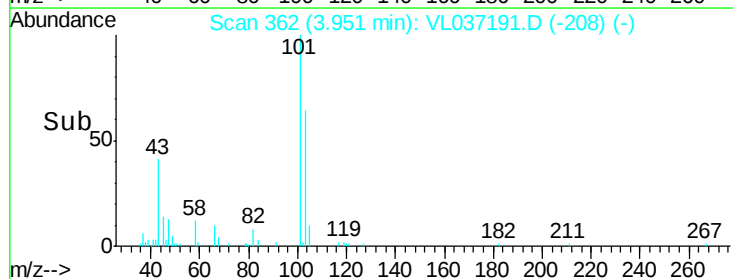
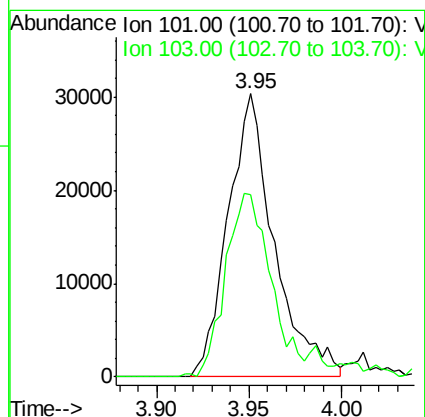
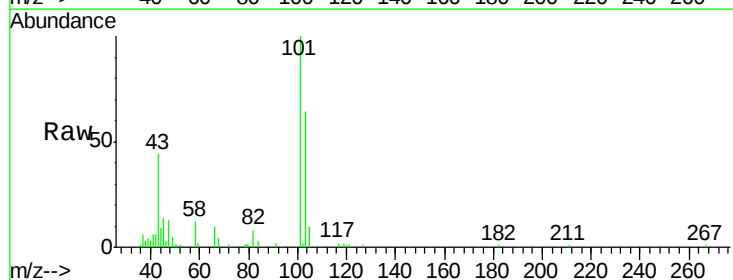
Acq: 17 Jun 2021 4:58

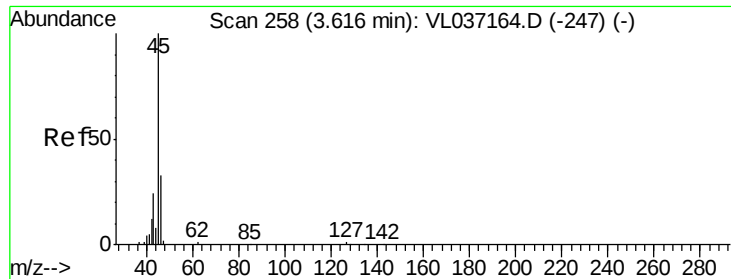
Tgt Ion: 101 Resp: 52647

Ion Ratio Lower Upper

101 100

103 63.3 52.2 78.4





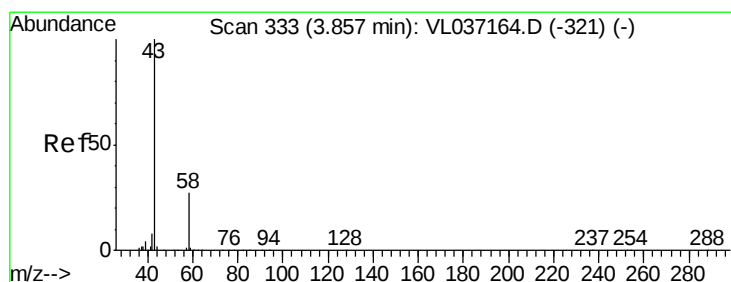
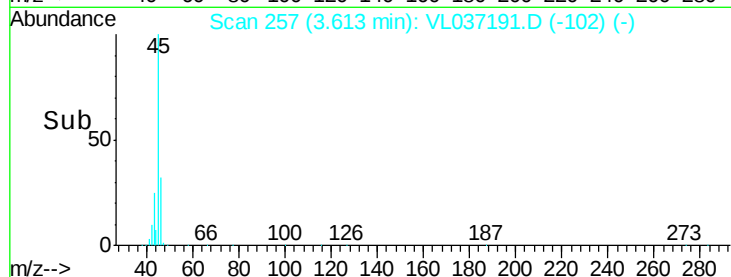
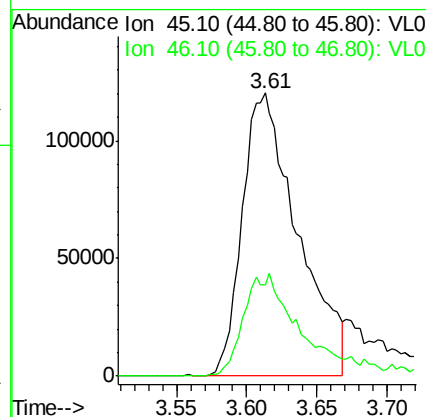
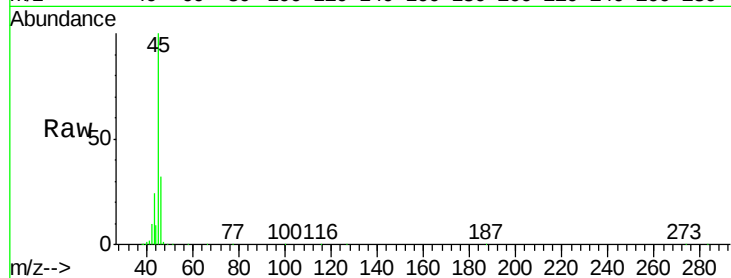
#13
Ethanol
Concen: 23.858 ppbv
RT: 3.61 min Scan# 257
Delta R.T. -0.00 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	45	Resp	331296
Ion Ratio	100	Lower	Upper
46	41.2	34.2	137.0

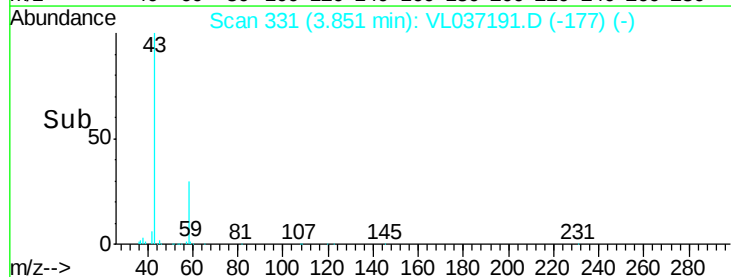
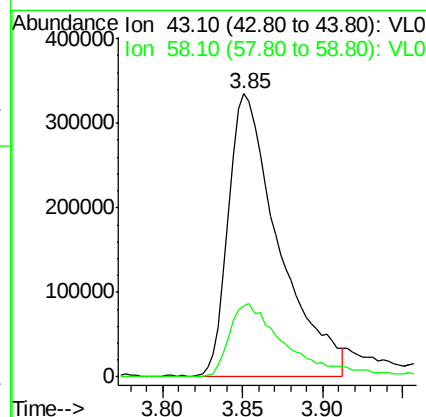
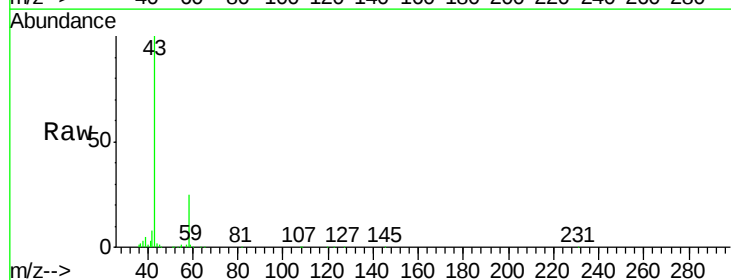
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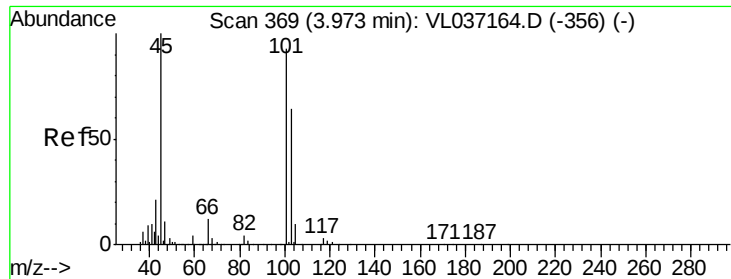
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#15
Acetone
Concen: 4.421 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Tgt Ion	43	Resp	719828
Ion Ratio	100	Lower	Upper
58	29.7	23.7	35.5





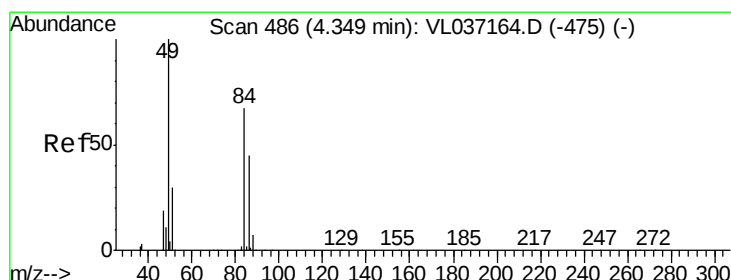
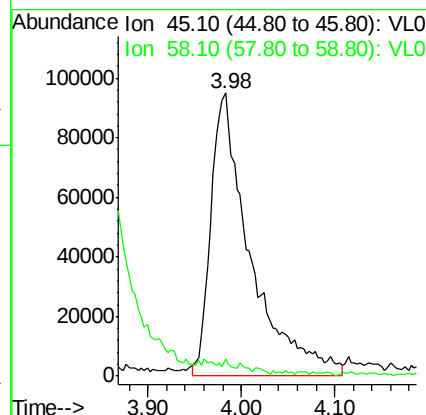
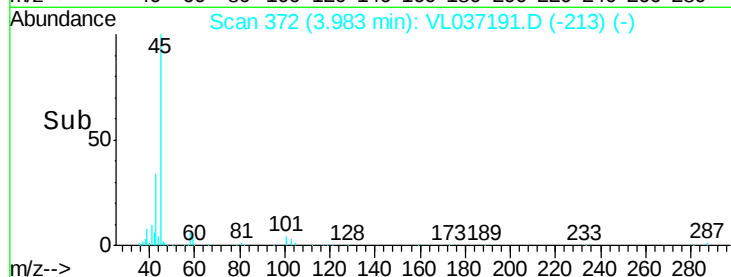
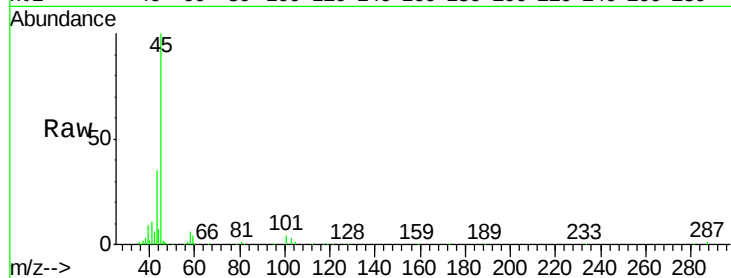
#19
Isopropyl Alcohol
Concen: 2.847 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 45 Resp: 280712
Ion Ratio Lower Upper
45 100
58 2.9 2.4 3.6

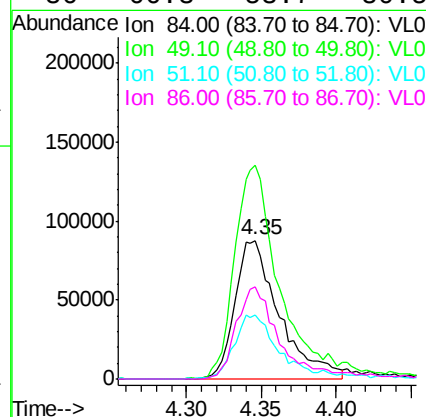
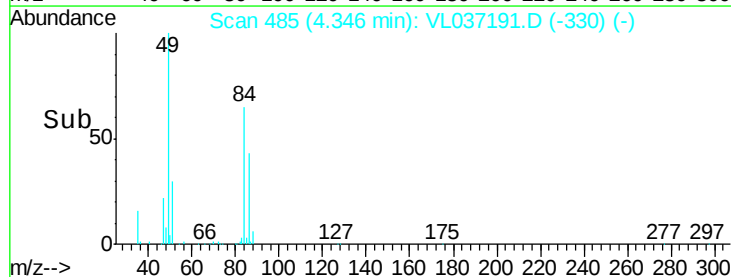
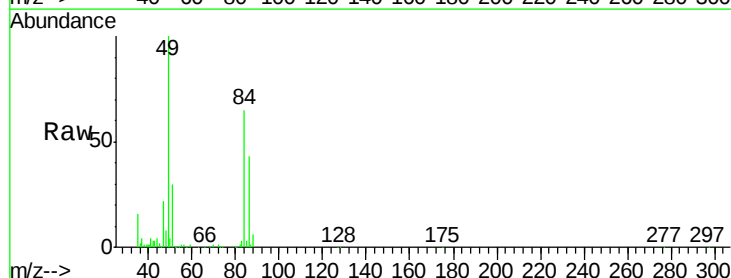
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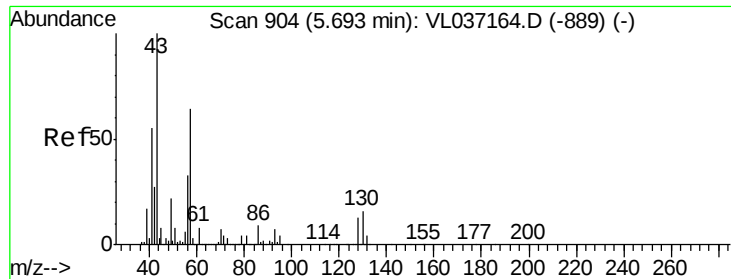
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#20
Methylene Chloride
Concen: 1.861 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Tgt Ion: 84 Resp: 181374
Ion Ratio Lower Upper
84 100
49 153.8 119.7 179.5
51 45.7 36.1 54.1
86 66.3 53.7 80.5





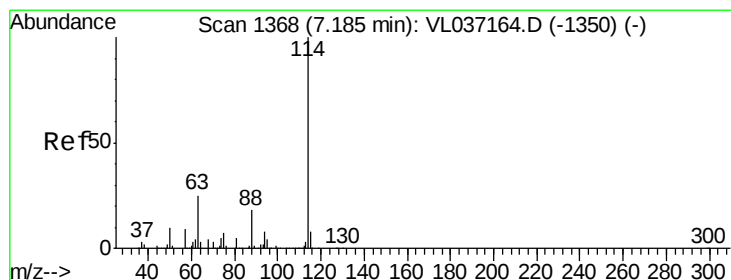
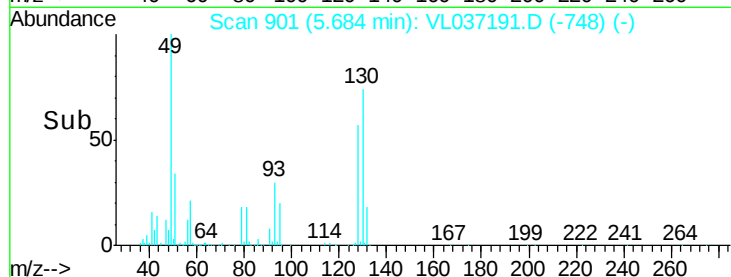
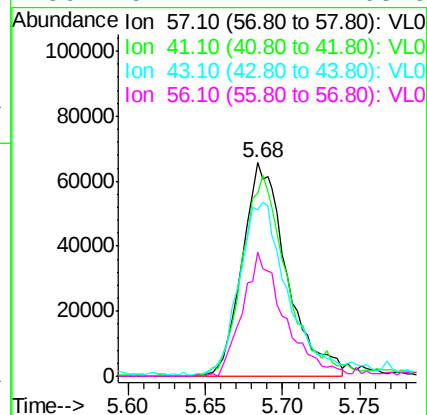
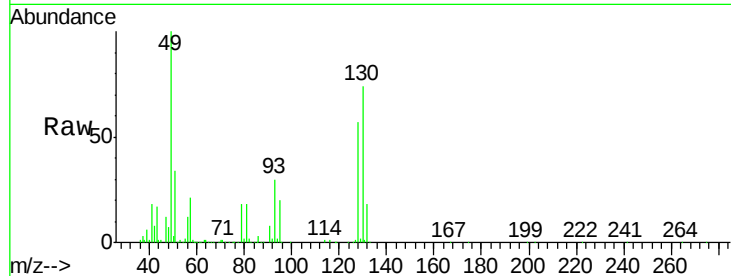
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Hexane
Concen: 0.739 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.7	73.5	110.3
43	92.8	170.7	256.1#
56	57.4	42.4	63.6

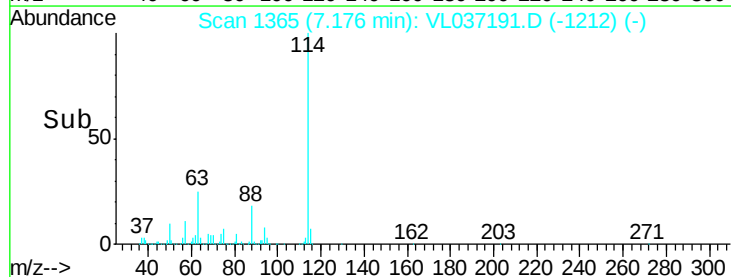
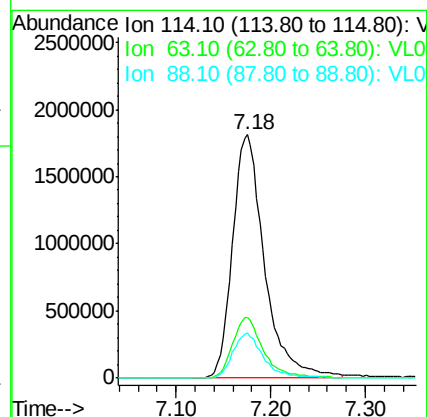
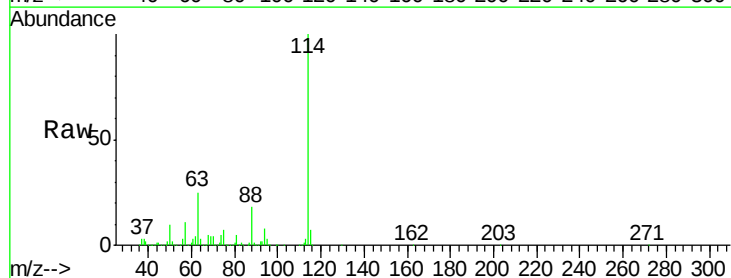
Manual Integrations
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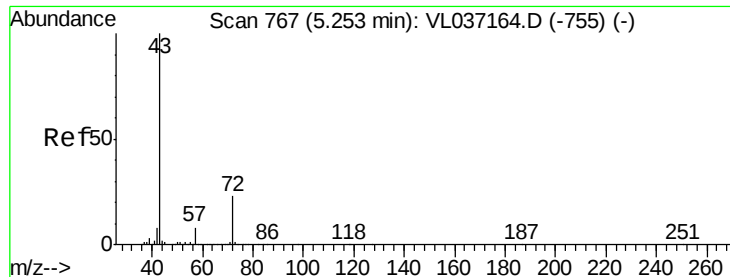
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.6	29.4
88	18.2	14.2	21.2





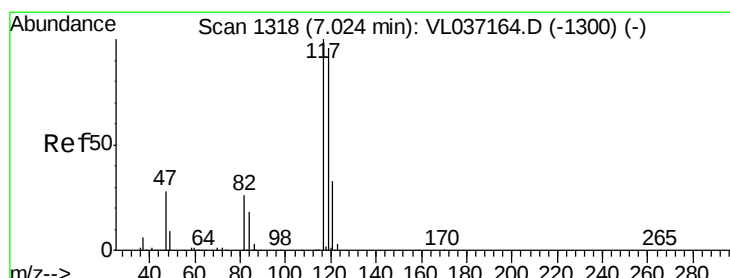
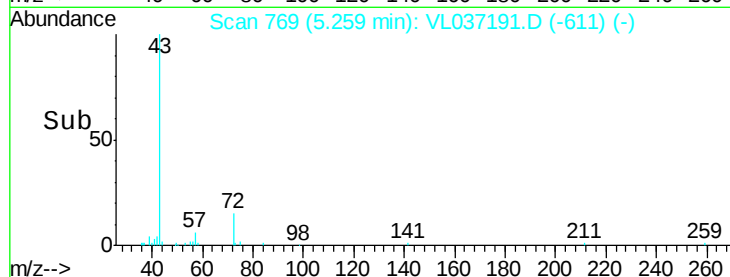
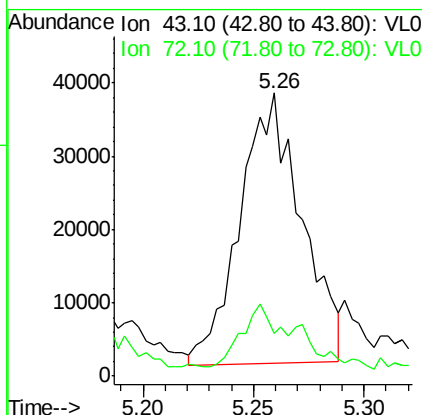
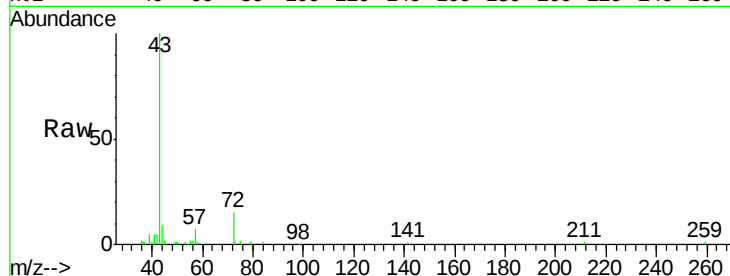
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2-Butanone
Concen: 0.432 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	43	72	Ratio	Lower	Upper
71436	100	25.5		18.9	28.3

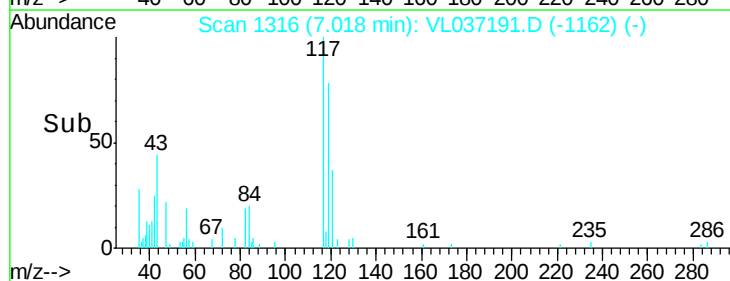
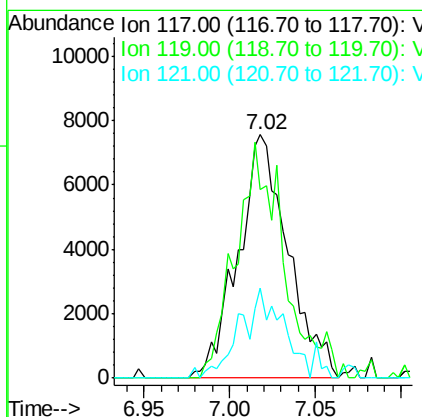
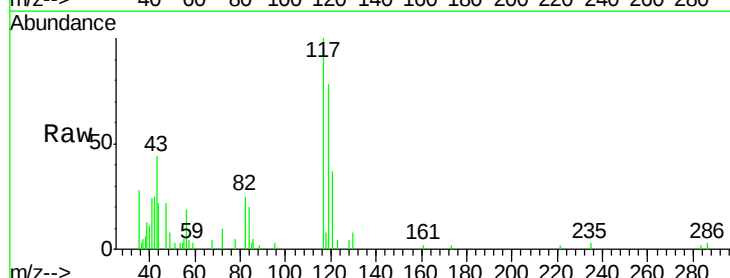
Manual Integrations
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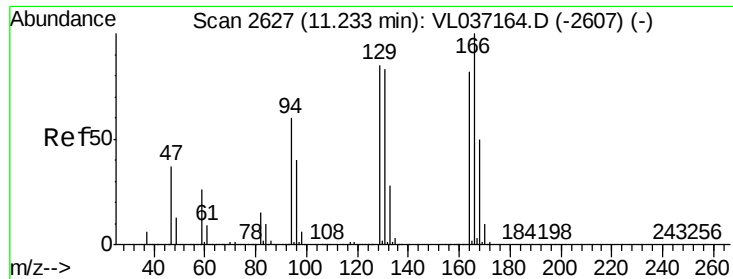
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#35
Carbon Tetrachloride
Concen: 0.054 ppbv
RT: 7.02 min Scan# 1316
Delta R.T. -0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Tgt Ion	117	119	121	Ratio	Lower	Upper
15275	100	77.7	37.0		76.6	39.6





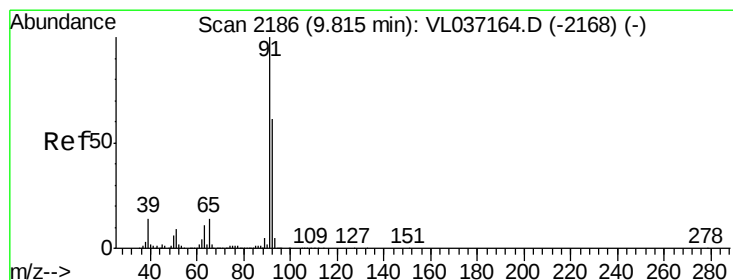
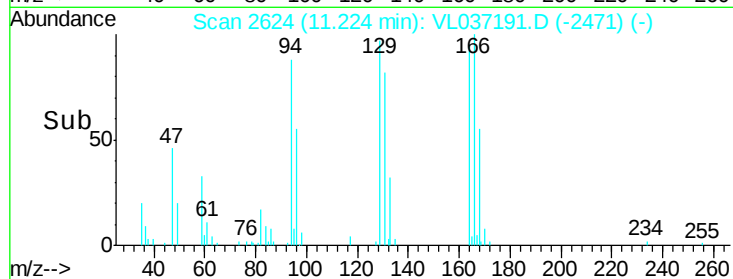
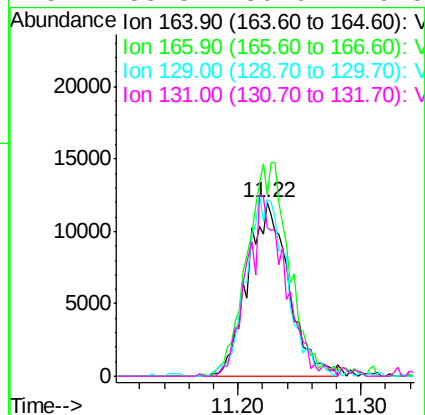
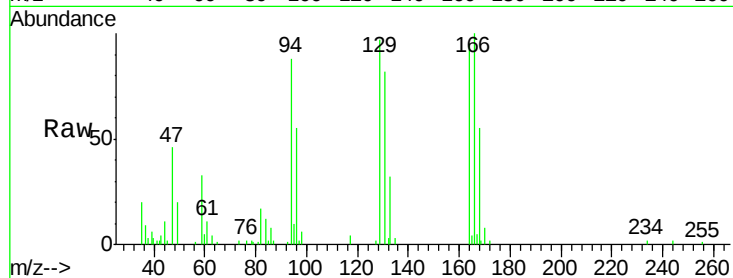
#52
Tetrachloroethene
Concen: 0.176 ppbv m
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	Ratio	Lower	Upper
164	100		
166	104.8	97.6	146.4
129	101.5	82.9	124.3
131	85.5	80.6	120.8

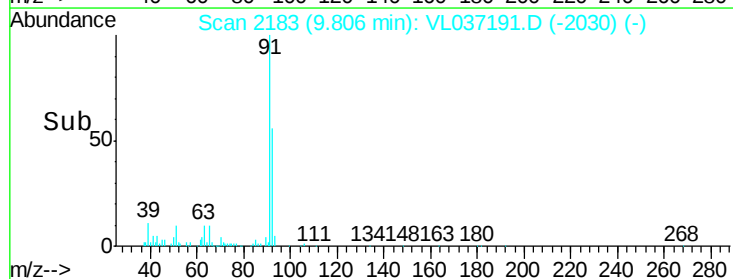
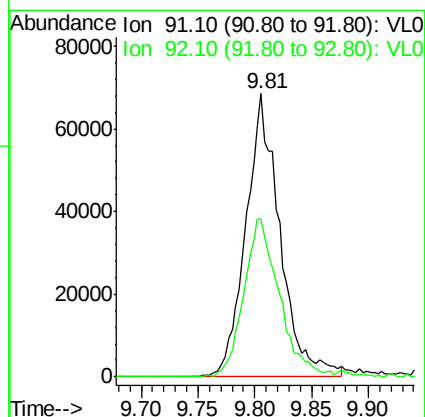
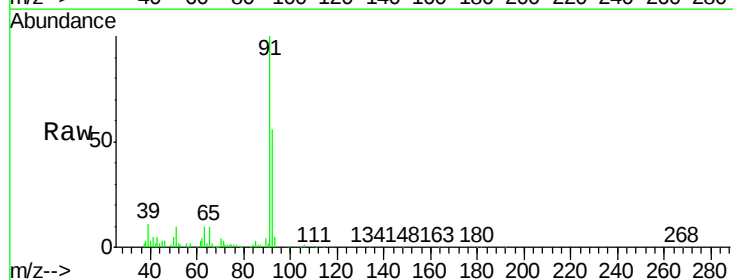
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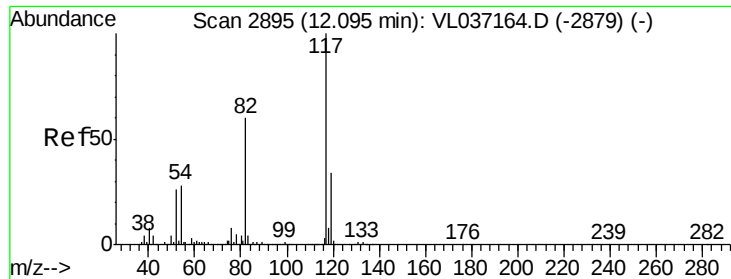
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#53
Toluene
Concen: 0.349 ppbv m
RT: 9.81 min Scan# 2183
Delta R.T. -0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.3	72.5





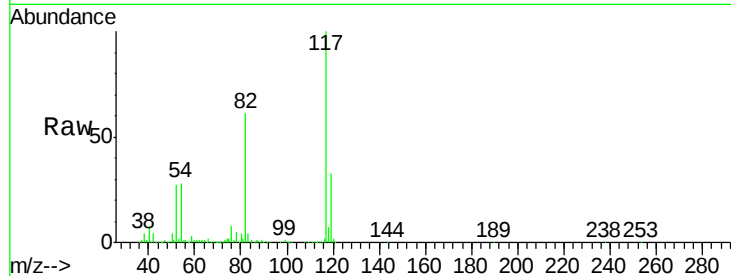
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Instrument :
MSVOA_L
ClientSampleId :
IA1

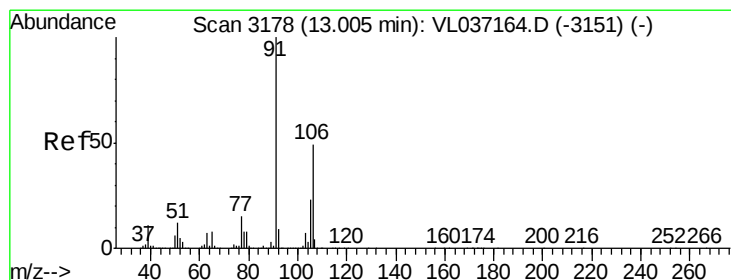
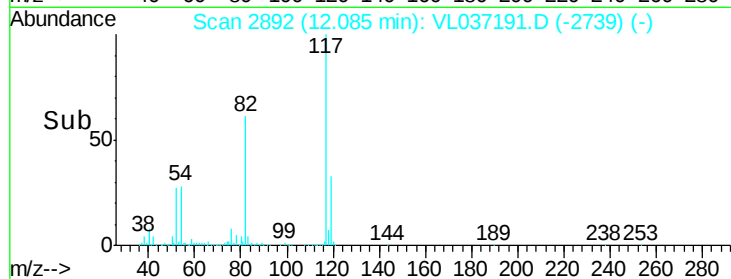
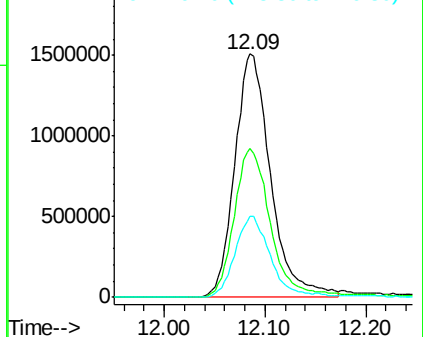
Tot Ion	Ratio	Lower	Upper
117	100		
82	64.2	51.7	77.5
119	33.9	47.6	71.4#

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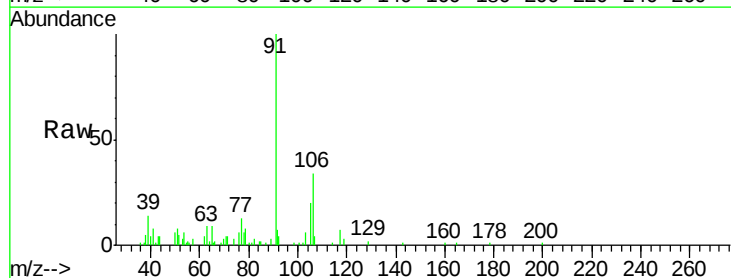


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

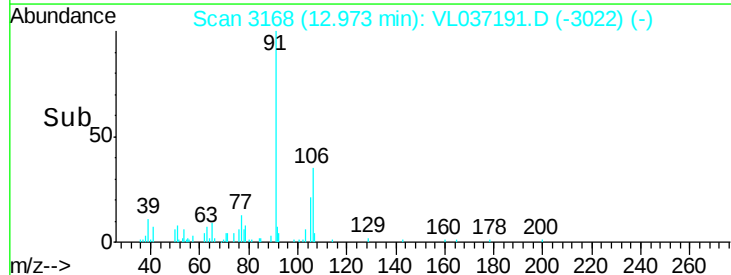
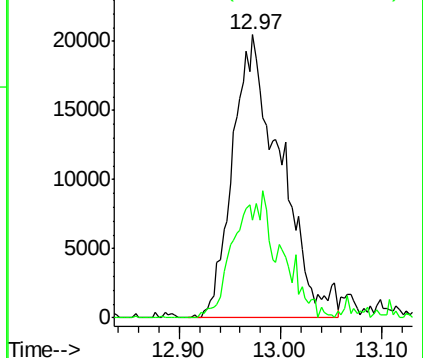


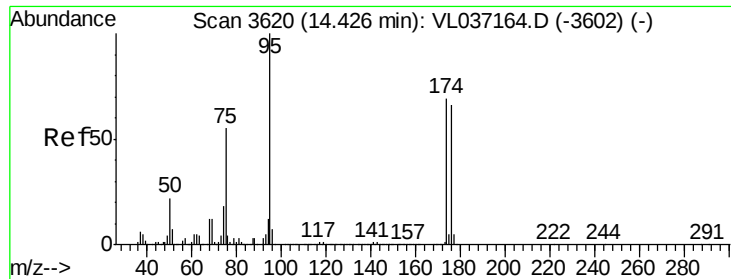
#59
m/p-Xylene
Concen: 0.154 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL037191.D
Acq: 17 Jun 2021 4:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.0	55.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





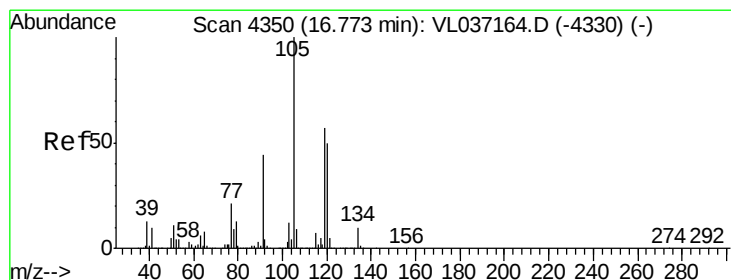
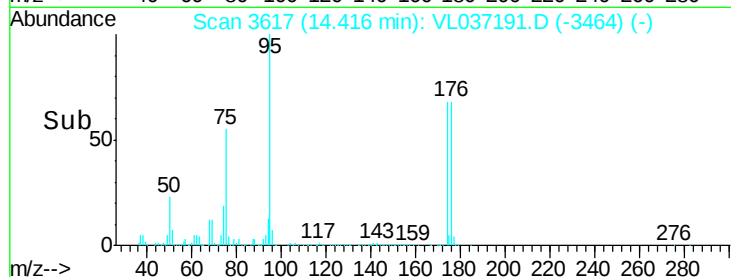
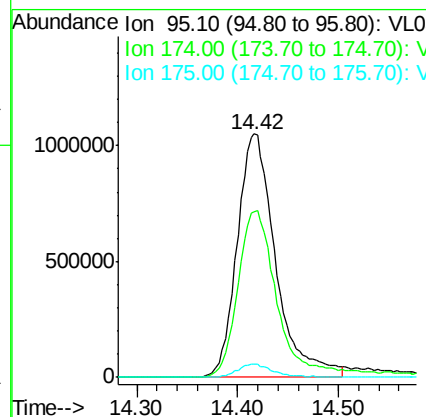
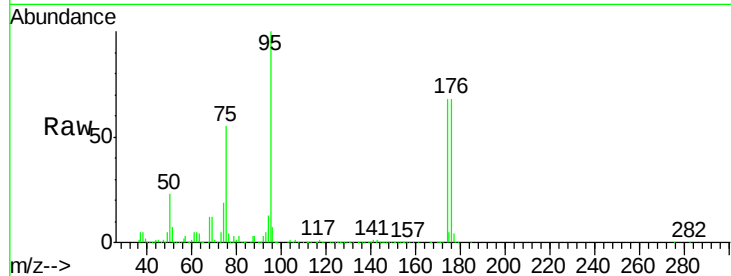
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.866 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL037191.D
 Acq: 17 Jun 2021 4:58

Instrument :
 MSVOA_L
 ClientSampled :
 IA1

Tot Ion	Ratio	Lower	Upper
95	100		
174	74.0	57.0	85.4
175	5.5	4.4	6.6

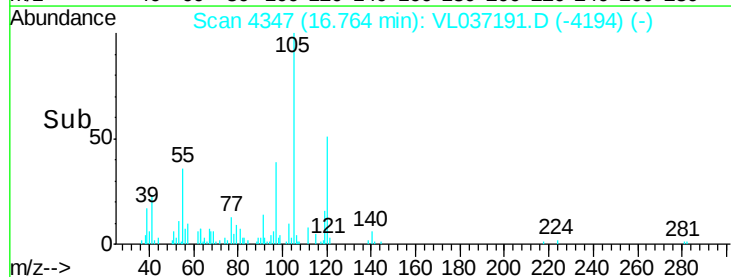
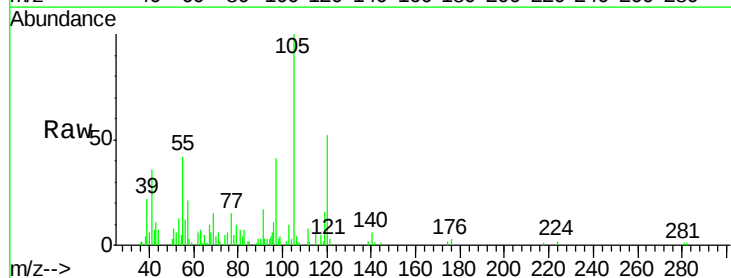
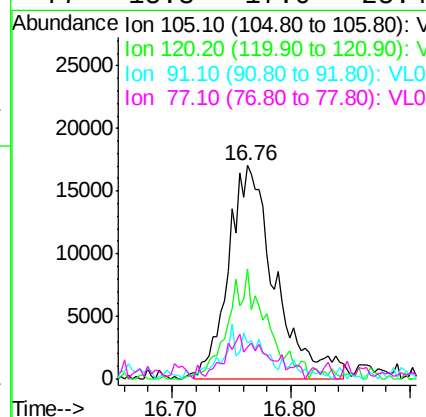
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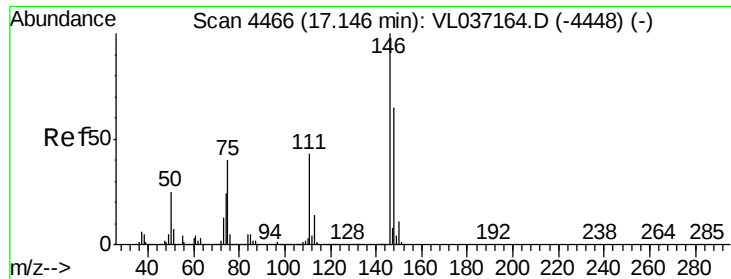
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.099 ppbv m
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL037191.D
 Acq: 17 Jun 2021 4:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.7	39.8	59.8
91	17.0	37.0	55.4#
77	15.3	17.0	25.4#





#76
 1,4-Dichlorobenzene
 Concen: 0.225 ppbv m
 RT: 17.14 min Scan# 4463
 Delta R.T. -0.01 min
 Lab File: VL037191.D
 Acq: 17 Jun 2021 4:58

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.7	68.0#
148	0.0	33.7	101.1#

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