

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035052.D
 Acq On : 19 May 2020 20:18
 Operator : SY/AP
 Sample : L2683-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-IA

Manual Integrations
 APPROVED

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 5/20/2020 4:27:36 PM

Quant Time: May 20 06:17:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1138637	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2577000	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2434510	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2098945	10.65	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	45421m	0.281	ppbv	
3) Chlorodifluoromethane	2.94	51	69934m	0.538	ppbv	
4) Chloromethane	3.09	50	41509	0.557	ppbv #	88
9) Propene	2.97	41	193069	3.423	ppbv #	66
11) Trichlorofluoromethane	3.91	101	44899	0.269	ppbv	87
13) Ethanol	3.57	45	4785832	257.100	ppbv	96
15) Acetone	3.80	43	1607932	10.682	ppbv	100
19) Isopropyl Alcohol	3.94	45	360755	3.594	ppbv #	94
20) Methylene Chloride	4.31	84	115518	2.318	ppbv	84
26) Hexane	5.66	57	129445	1.181	ppbv #	50
29) Chloroform	5.72	83	42872	0.239	ppbv #	72
34) 2-Butanone	5.22	43	78022	0.487	ppbv	100
35) Carbon Tetrachloride	7.01	117	10798m	0.066	ppbv	
36) Benzene	6.87	78	28158m	0.133	ppbv	
38) Trichloroethene	7.83	130	3468m	0.042	ppbv	
52) Tetrachloroethene	11.23	164	77676m	1.028	ppbv	
53) Toluene	9.81	91	294660m	1.308	ppbv	

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

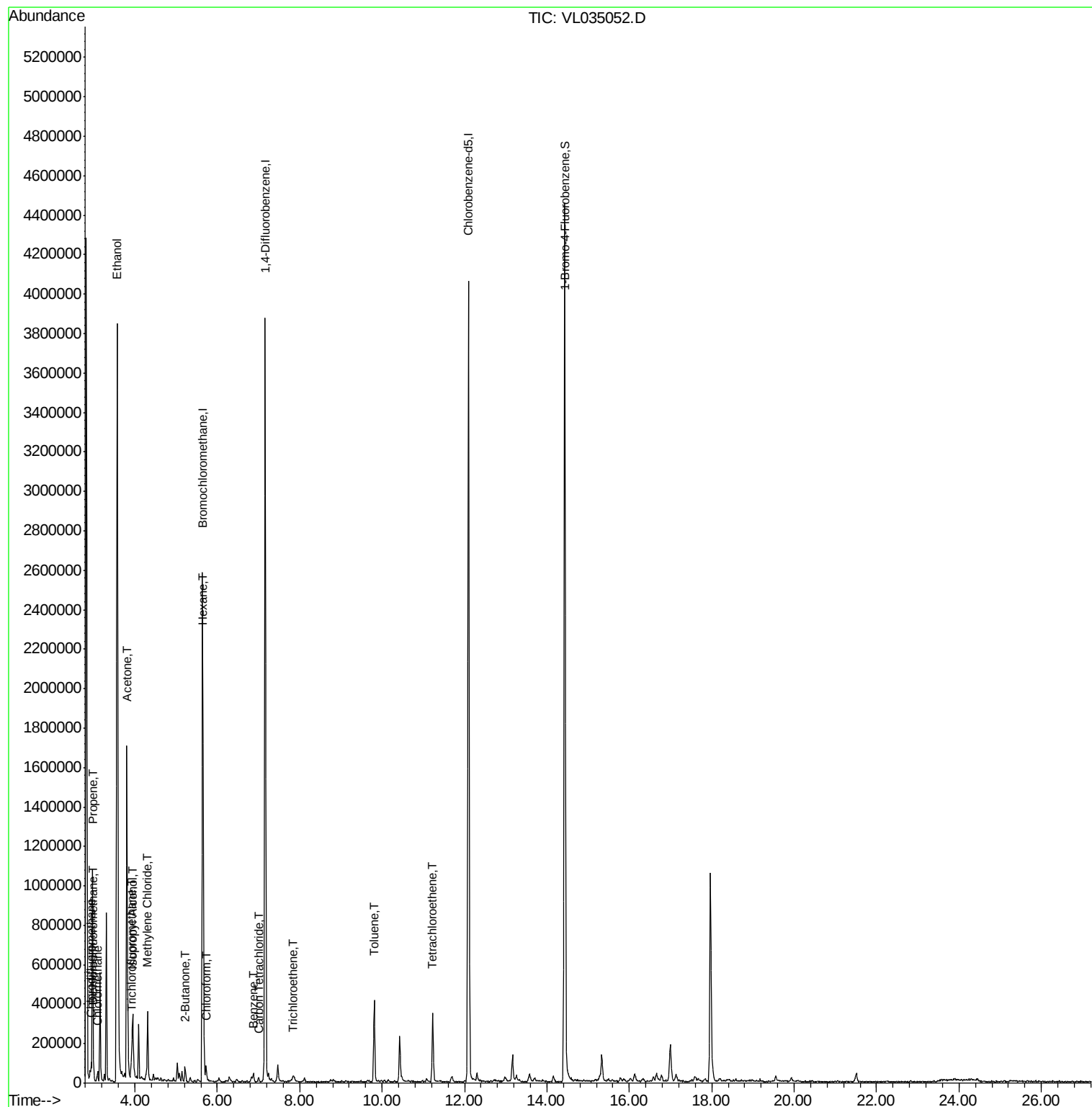
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035052.D
Acq On : 19 May 2020 20:18
Operator : SY/AP
Sample : L2683-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

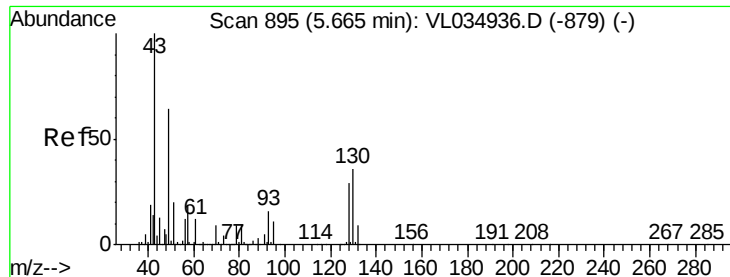
Instrument :
MSVOA_L
ClientSampleId :
IR-BR-IA

Manual Integrations
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Quant Time: May 20 06:17:02 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035052.D

Acq: 19 May 2020 20:18

Instrument :

MSVOA_L

ClientSampleId :

IR-BR-IA

Tot Ion: 49 Resp: 1138637

Ion Ratio Lower Upper

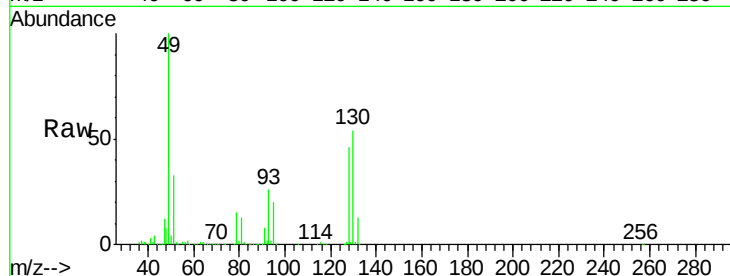
49 100

128 45.8 22.1 66.5

130 57.2 29.1 87.3

Manual Integrations
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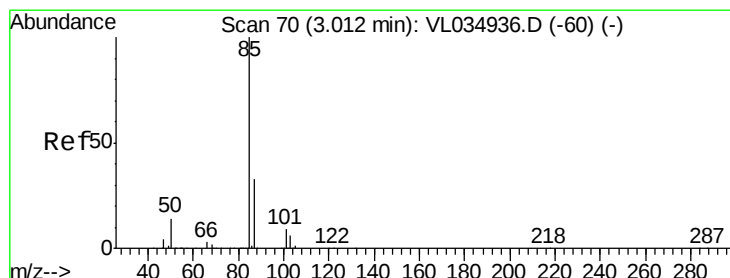
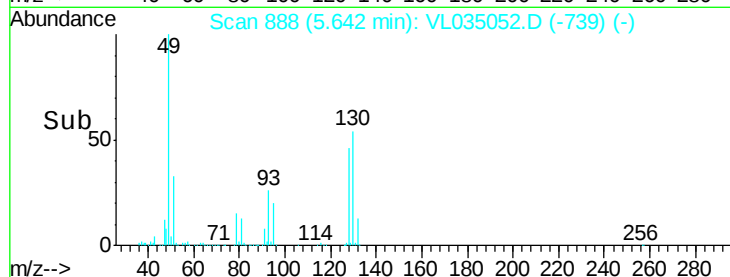
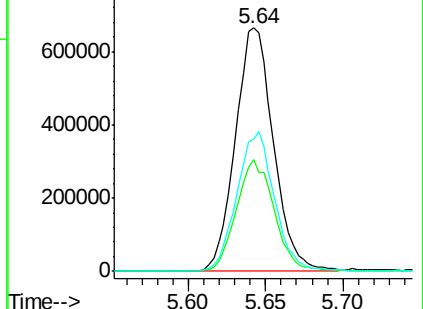
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.281 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035052.D

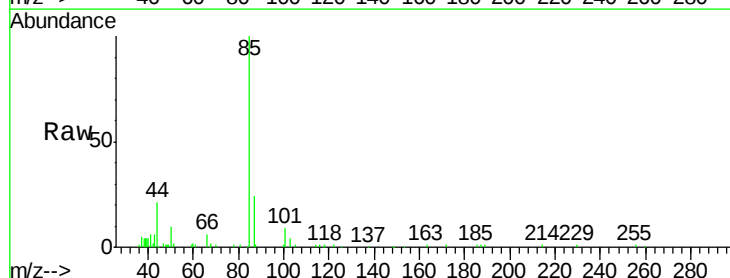
Acq: 19 May 2020 20:18

Tgt Ion: 85 Resp: 45421

Ion Ratio Lower Upper

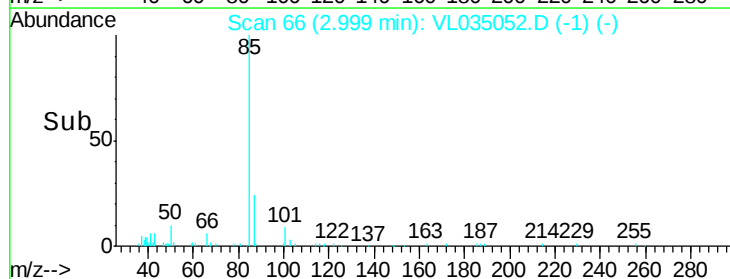
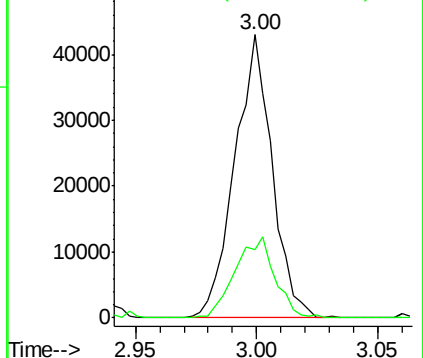
85 100

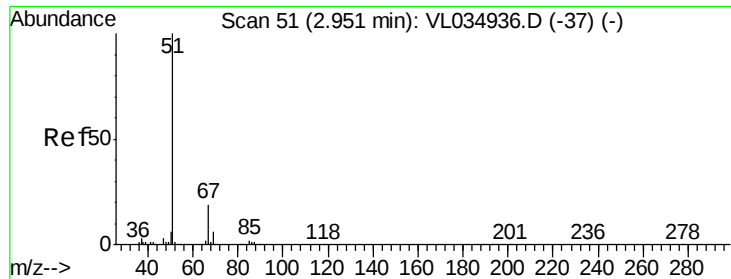
87 23.9 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.538 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.01 min

Lab File: VL035052.D

Acq: 19 May 2020 20:18

Instrument :

MSVOA_L

ClientSampleId :

IR-BR-IA

Tot Ion: 51 Resp: 69934

Ion Ratio Lower Upper

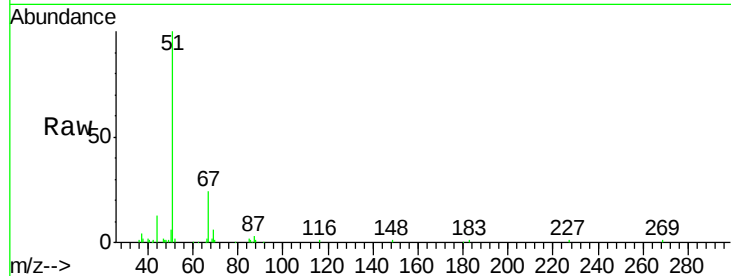
51 100

67 21.4 15.0 22.6

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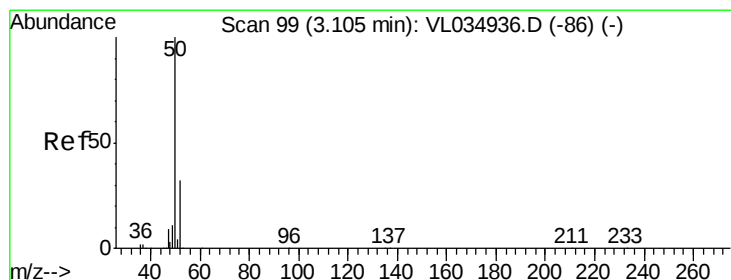
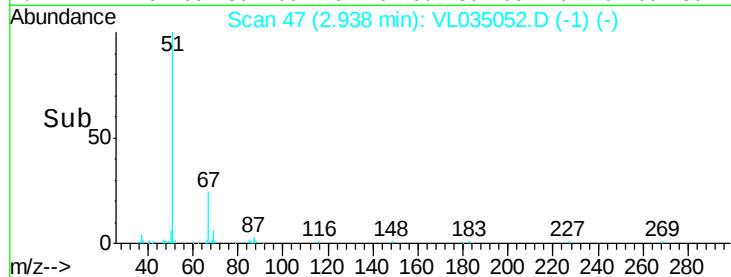
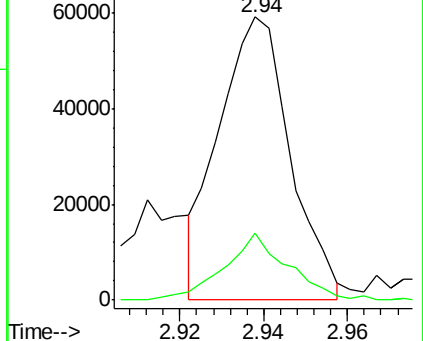
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.557 ppbv

RT: 3.09 min Scan# 95

Delta R.T. -0.01 min

Lab File: VL035052.D

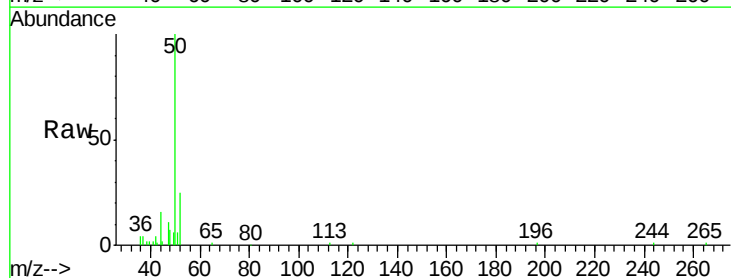
Acq: 19 May 2020 20:18

Tgt Ion: 50 Resp: 41509

Ion Ratio Lower Upper

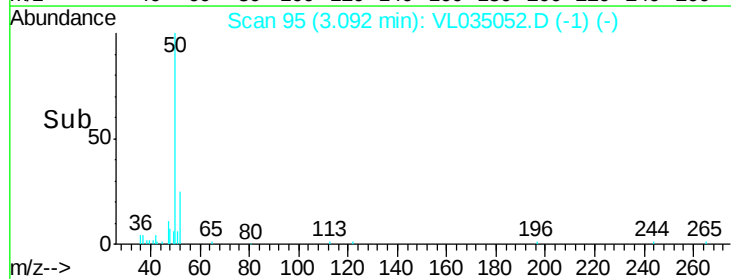
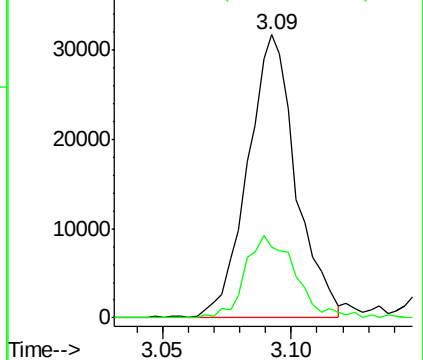
50 100

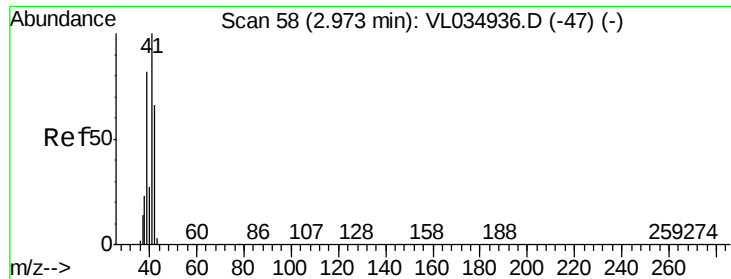
52 25.3 25.4 38.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.423 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035052.D

Acq: 19 May 2020 20:18

Instrument :

MSVOA_L

ClientSampleId :

IR-BR-IA

Tot Ion: 41 Resp: 193069

Ion Ratio Lower Upper

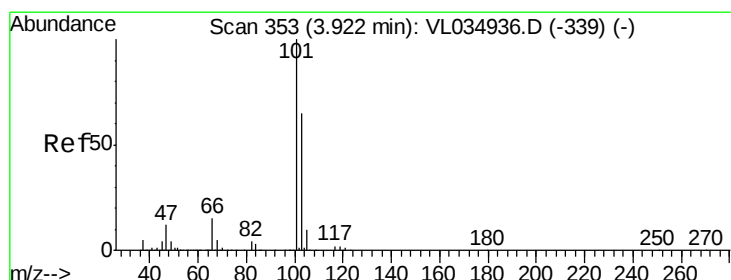
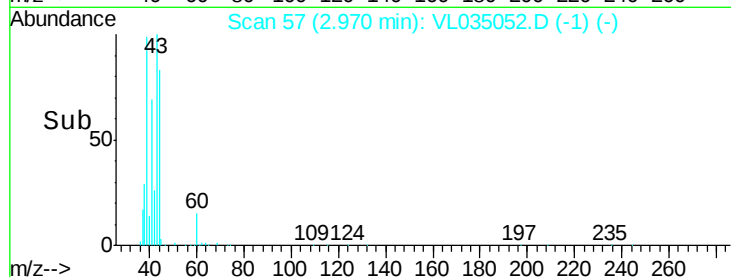
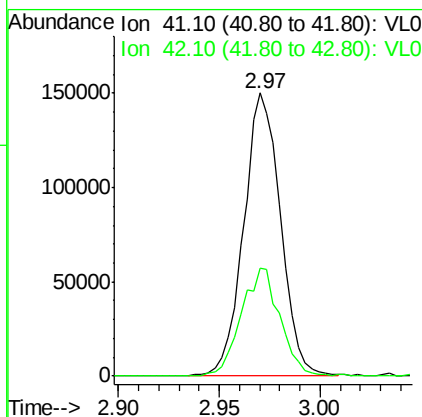
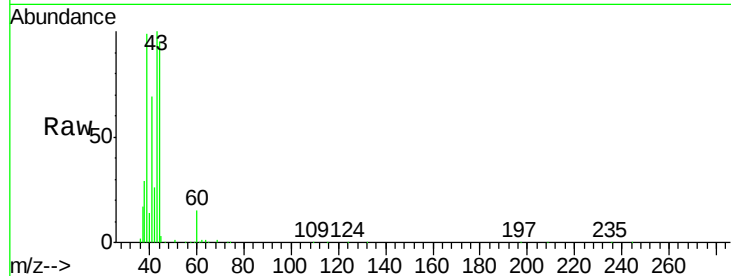
41 100

42 40.3 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.269 ppbv

RT: 3.91 min Scan# 350

Delta R.T. -0.01 min

Lab File: VL035052.D

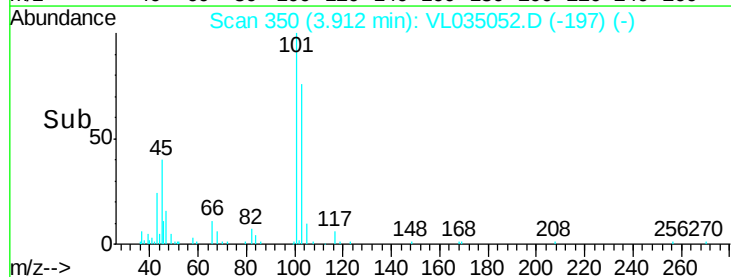
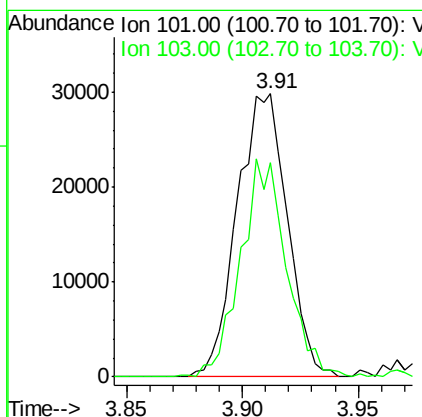
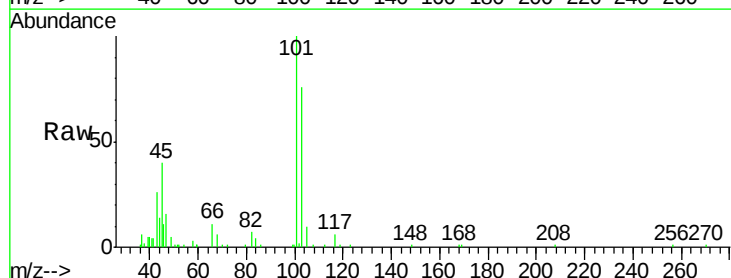
Acq: 19 May 2020 20:18

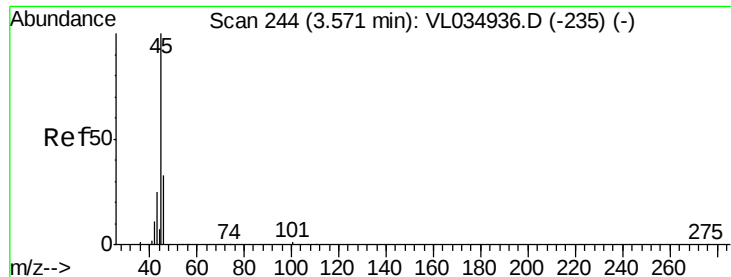
Tgt Ion: 101 Resp: 44899

Ion Ratio Lower Upper

101 100

103 75.0 51.9 77.9





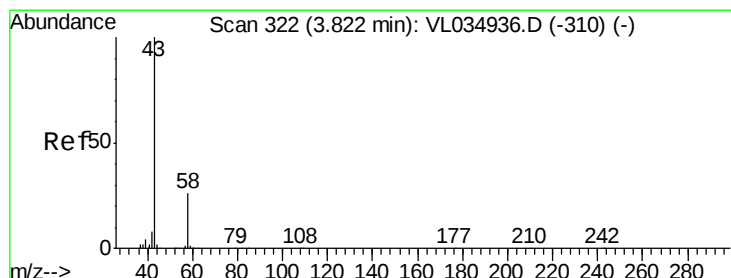
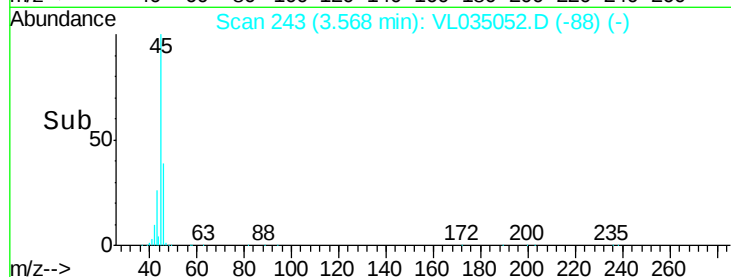
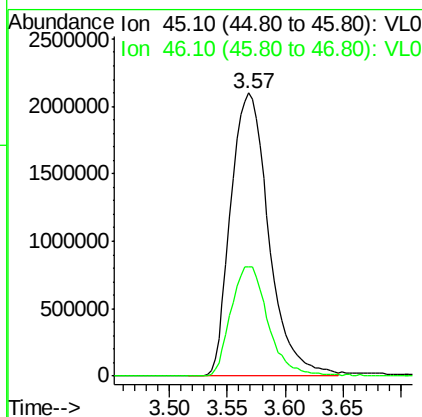
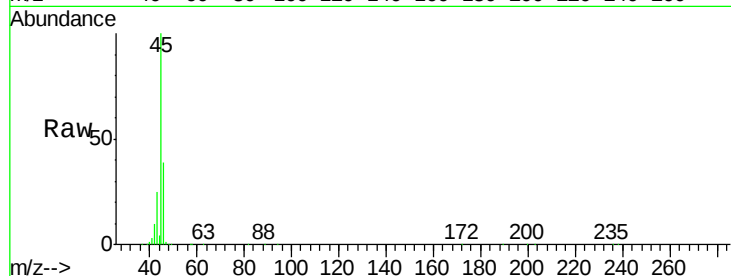
#13
Ethanol
Concen: 257.100 ppbv
RT: 3.57 min Scan# 243
Delta R.T. -0.00 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-IA

Tot Ion: 45 Resp: 4785832
Ion Ratio Lower Upper
45 100
46 38.0 14.3 57.3

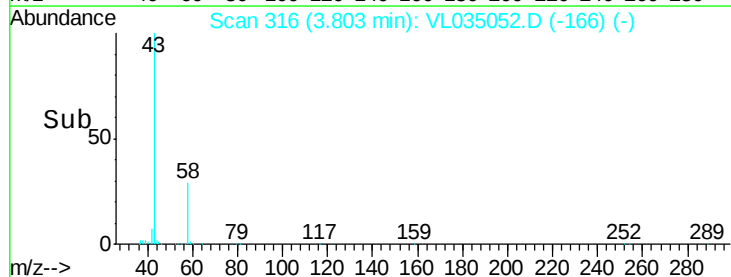
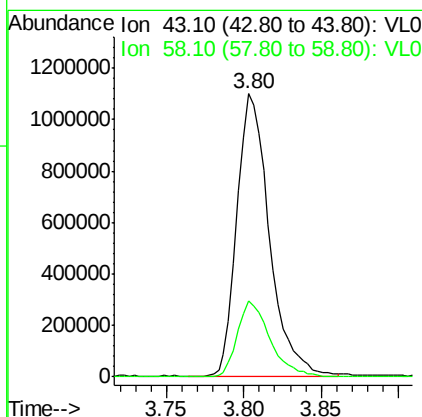
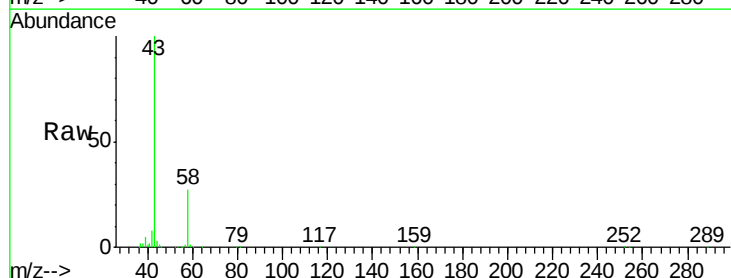
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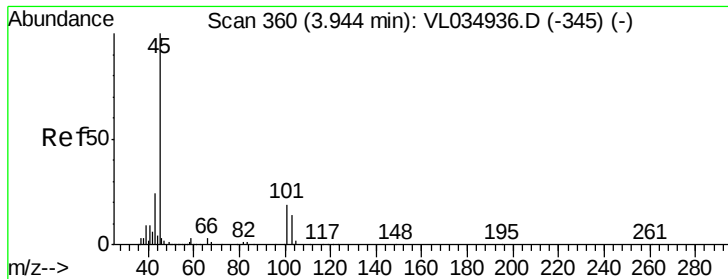
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#15
Acetone
Concen: 10.682 ppbv
RT: 3.80 min Scan# 316
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 43 Resp: 1607932
Ion Ratio Lower Upper
43 100
58 27.2 21.7 32.5





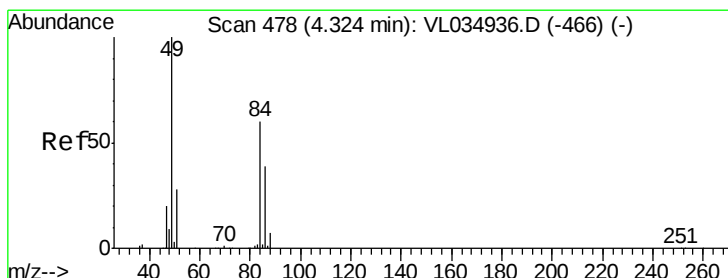
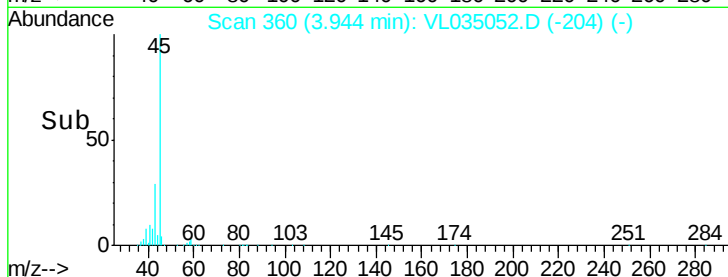
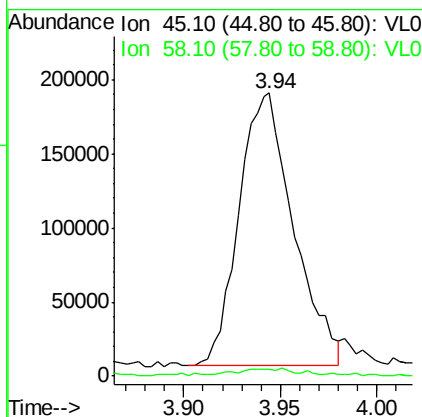
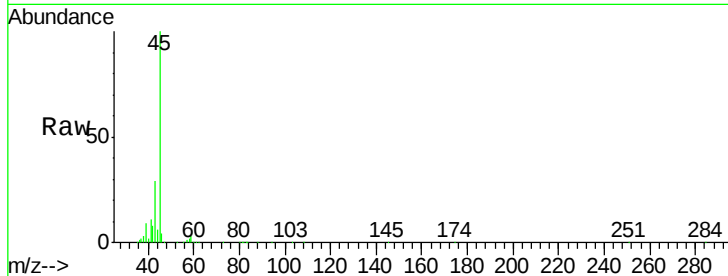
#19
Isopropyl Alcohol
Concen: 3.594 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.00 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :
IR-BR-IA

Tot Ion: 45 Resp: 360755
Ion Ratio Lower Upper
45 100
58 4.1 1.7 2.5#

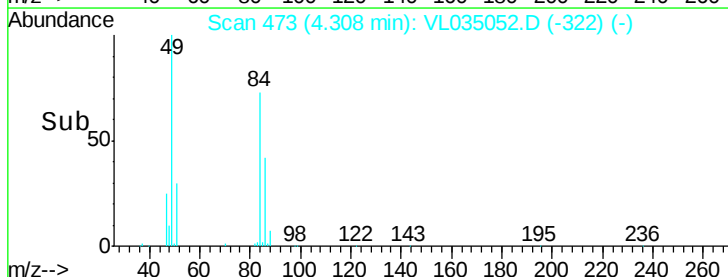
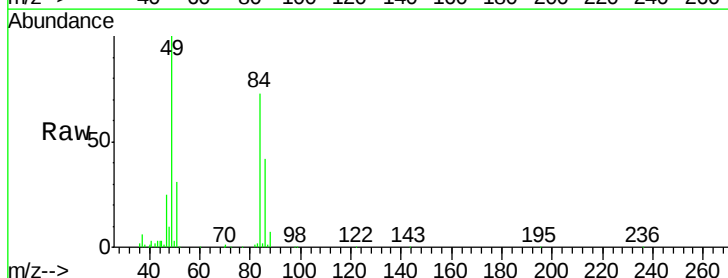
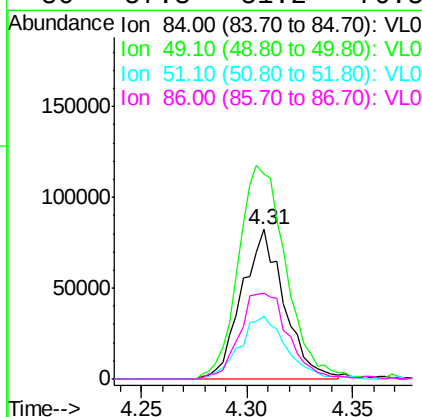
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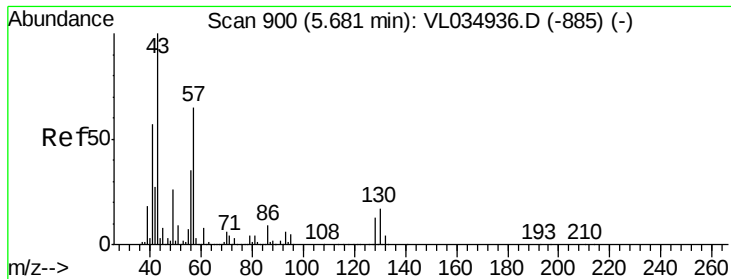
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#20
Methylene Chloride
Concen: 2.318 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 84 Resp: 115518
Ion Ratio Lower Upper
84 100
49 137.4 132.5 198.7
51 42.2 38.4 57.6
86 57.3 51.2 76.8





#26

Hexane

Concen: 1.181 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035052.D

Acq: 19 May 2020 20:18

Instrument :

MSVOA_L

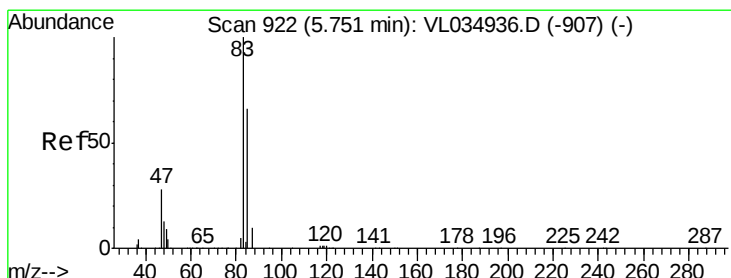
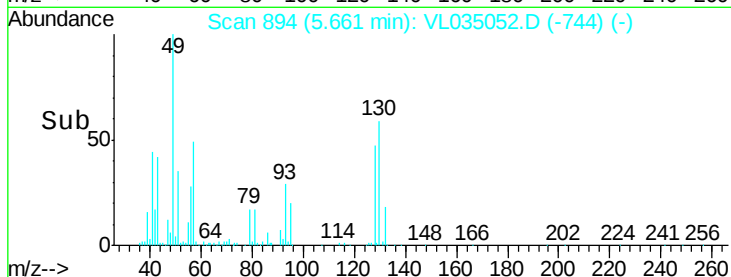
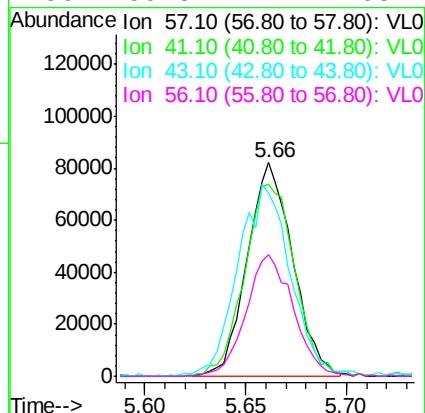
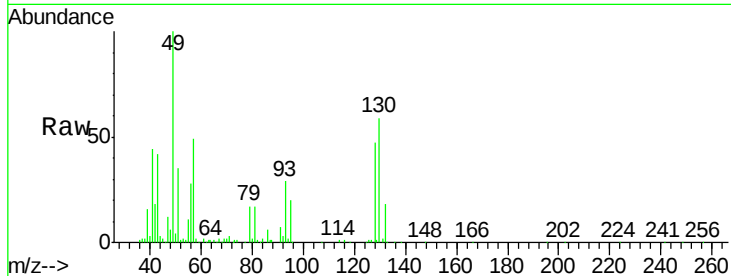
ClientSampleId :

IR-BR-IA

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		129445		
41	100.1	72.7	109.1		
43	104.8	182.1	273.1#		
56	59.3	42.2	63.2		

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#29

Chloroform

Concen: 0.239 ppbv

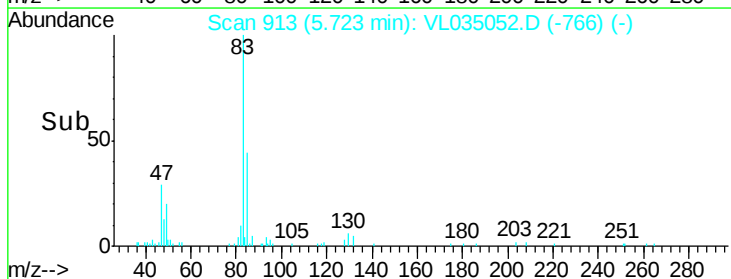
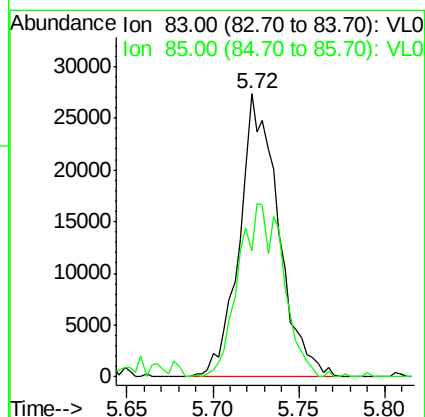
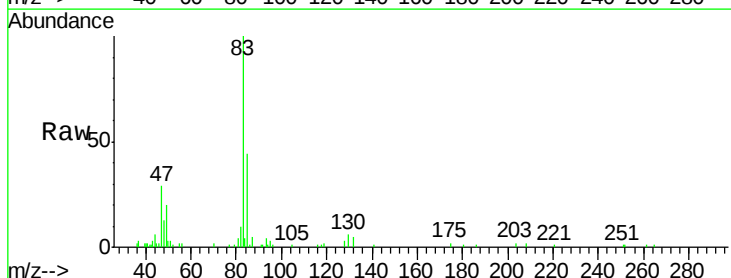
RT: 5.72 min Scan# 913

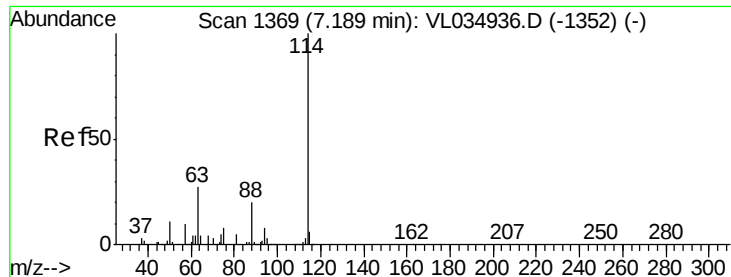
Delta R.T. -0.03 min

Lab File: VL035052.D

Acq: 19 May 2020 20:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		42872		
85	44.3	53.0	79.6#		





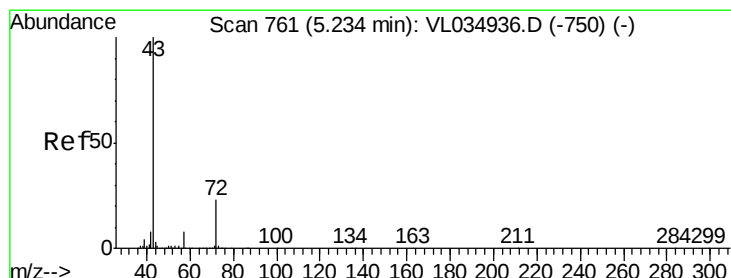
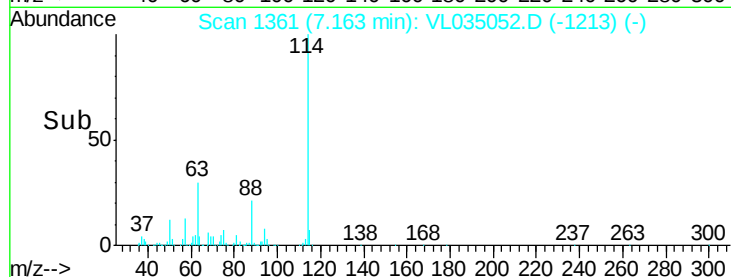
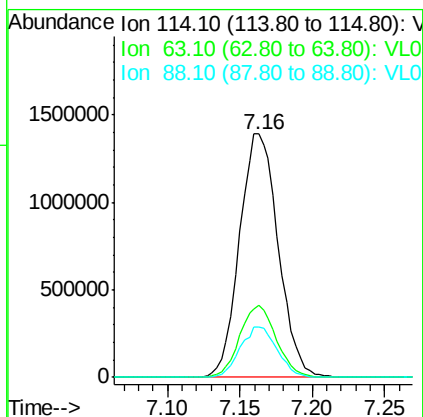
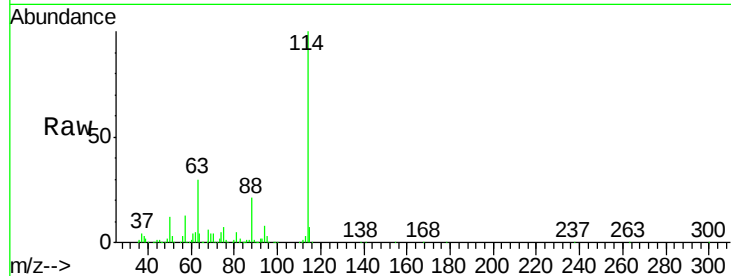
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.03 min
 Lab File: VL035052.D
 Acq: 19 May 2020 20:18

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-IA

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.2	33.4
88	19.9	15.5	23.3

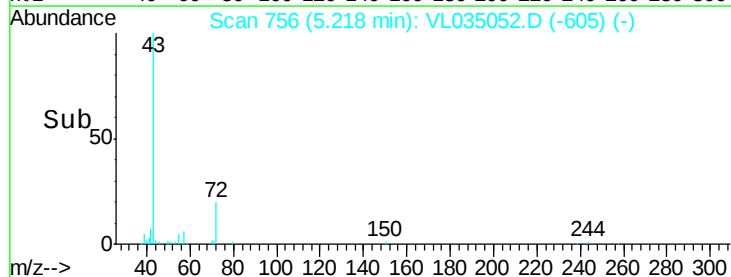
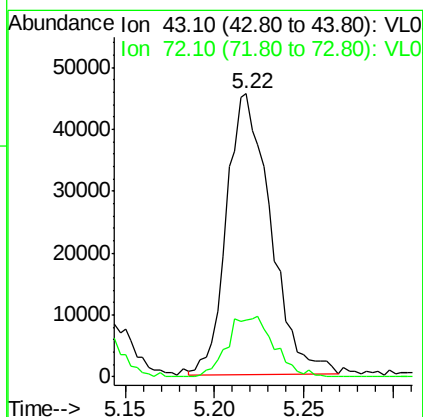
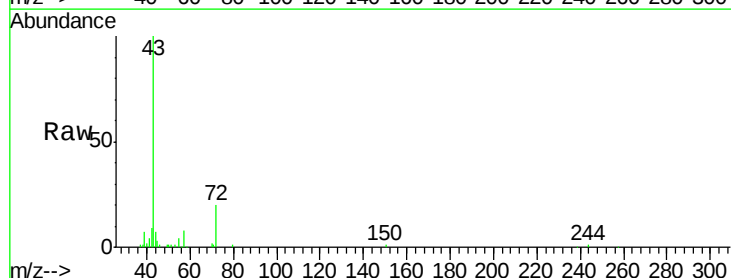
Manual Integrations
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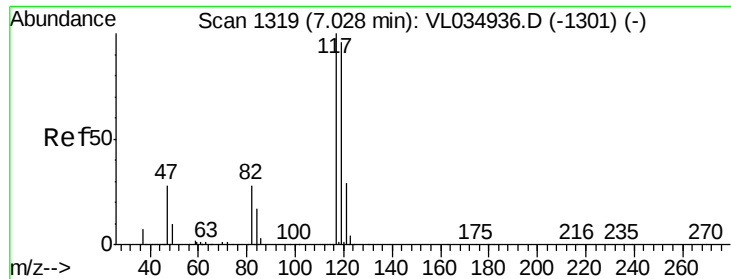
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#34
 2-Butanone
 Concen: 0.487 ppbv
 RT: 5.22 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: VL035052.D
 Acq: 19 May 2020 20:18

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.0	27.0





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL035052.D

Acq: 19 May 2020 20:18

Instrument :

MSVOA_L

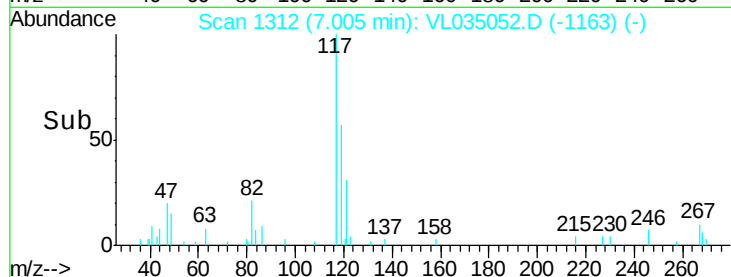
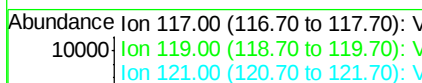
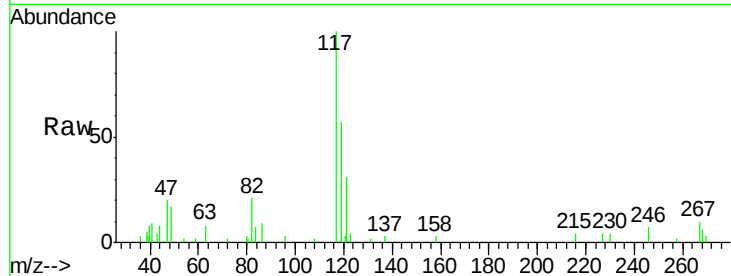
ClientSampled :

IR-BR-IA

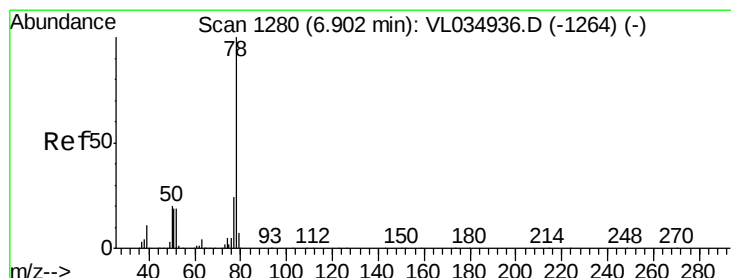
Tot Ion:	117	Resp:	10798
Ion	Ratio	Lower	Upper
117	100		
119	57.5	77.0	115.6#
121	31.3	23.0	34.6

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Time-->



#36

Benzene

Concen: 0.133 ppbv m

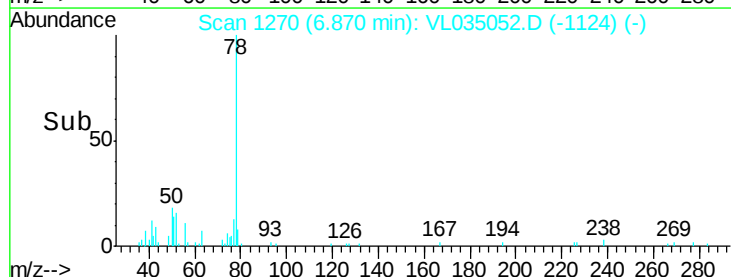
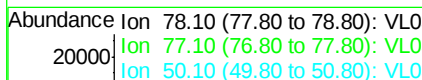
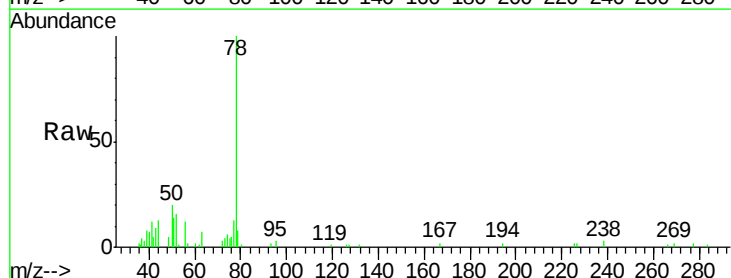
RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

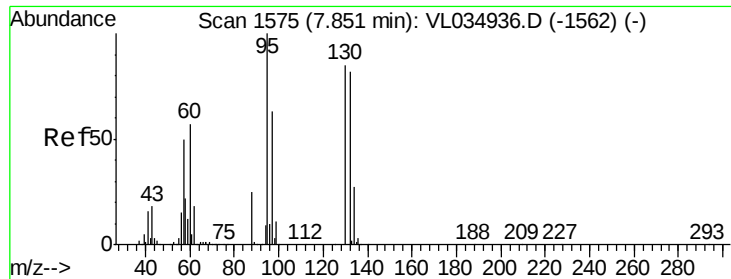
Lab File: VL035052.D

Acq: 19 May 2020 20:18

Tgt Ion:	78	Resp:	28158
Ion	Ratio	Lower	Upper
78	100		
77	13.1	19.0	28.6#
50	20.1	15.8	23.8



Time-->



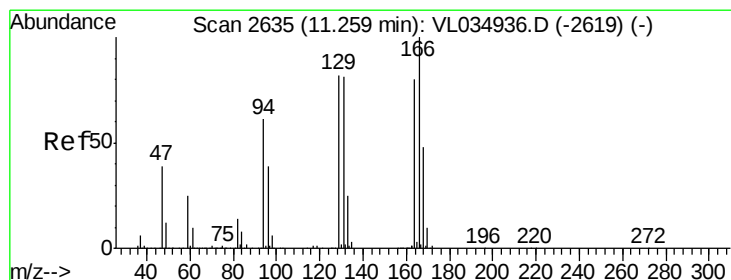
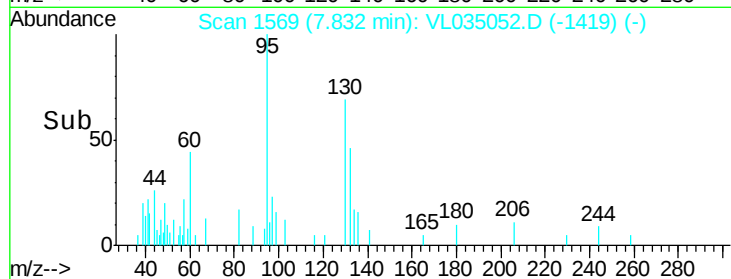
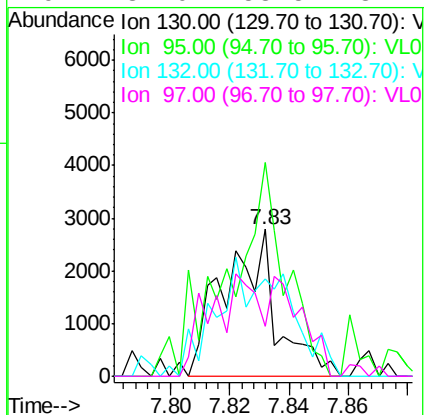
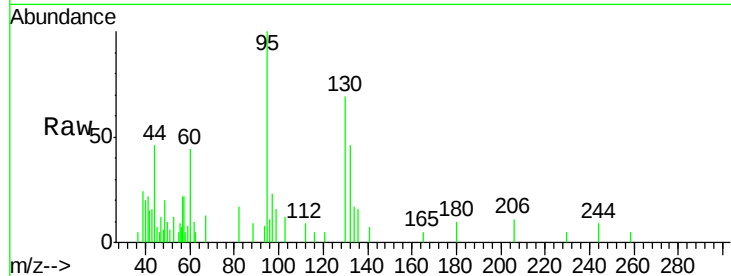
#38
 Trichloroethene
 Concen: 0.042 ppbv m
 RT: 7.83 min Scan# 1569
 Delta R.T. -0.02 min
 Lab File: VL035052.D
 Acq: 19 May 2020 20:18

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-IA

Tot Ion	Ratio	Lower	Upper
130	100		
95	145.1	93.4	140.0#
132	66.3	76.4	114.6#
97	34.0	58.5	87.7#

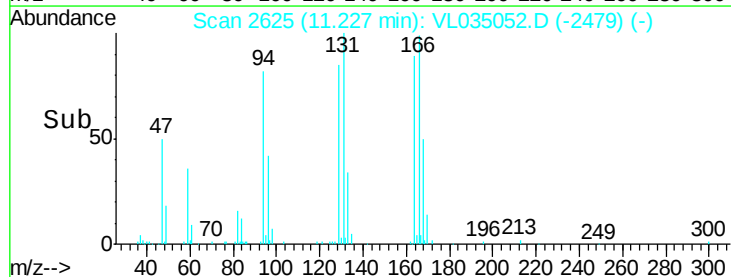
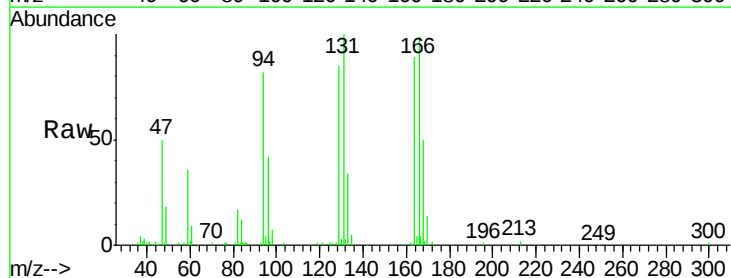
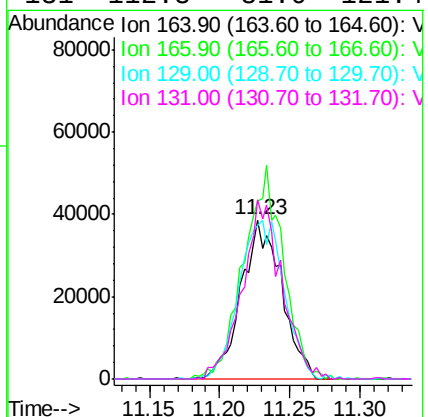
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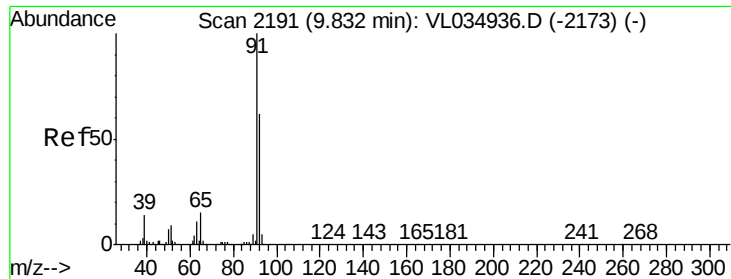
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#52
 Tetrachloroethene
 Concen: 1.028 ppbv m
 RT: 11.23 min Scan# 2625
 Delta R.T. -0.03 min
 Lab File: VL035052.D
 Acq: 19 May 2020 20:18

Tgt Ion	Ratio	Lower	Upper
164	100		
166	111.4	100.7	151.1
129	96.1	83.0	124.4
131	112.8	81.0	121.4





#53

Toluene

Concen: 1.308 ppbv m

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035052.D

Acq: 19 May 2020 20:18

Instrument :

MSVOA_L

ClientSampleId :

IR-BR-IA

Tot Ion: 91 Resp: 294660

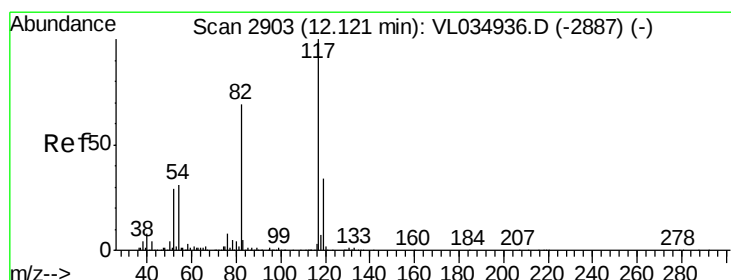
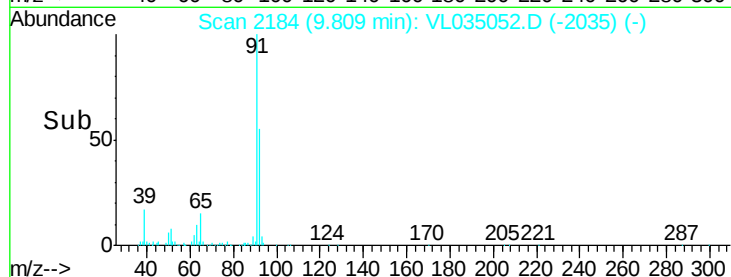
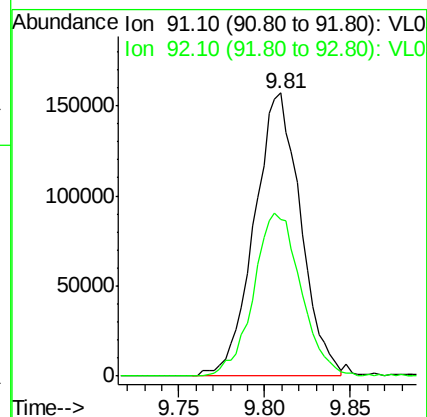
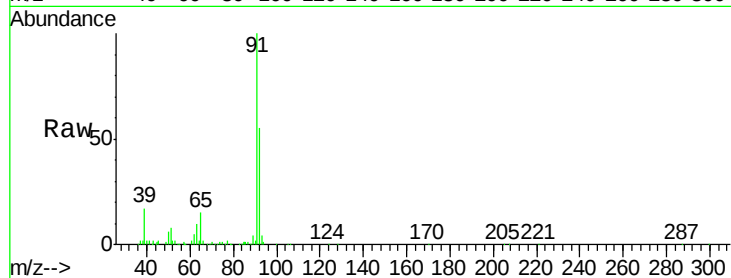
Ion Ratio Lower Upper

91 100

92 59.1 48.6 73.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. -0.03 min

Lab File: VL035052.D

Acq: 19 May 2020 20:18

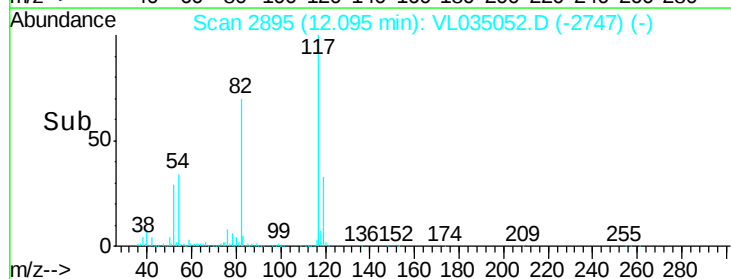
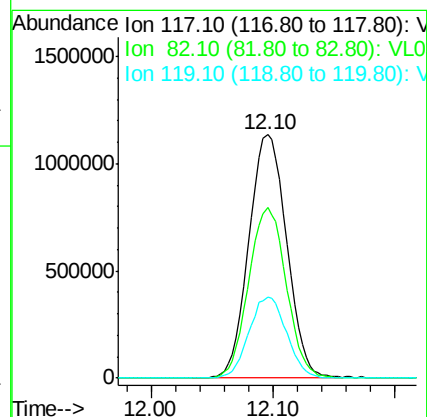
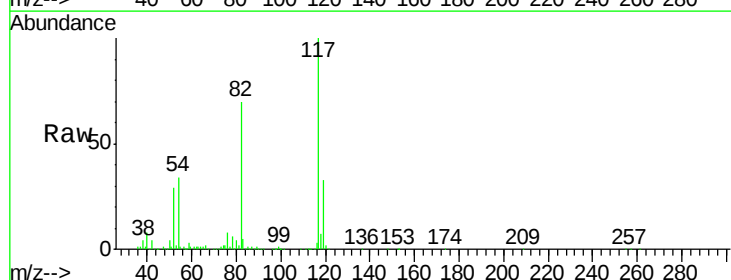
Tgt Ion: 117 Resp: 2434510

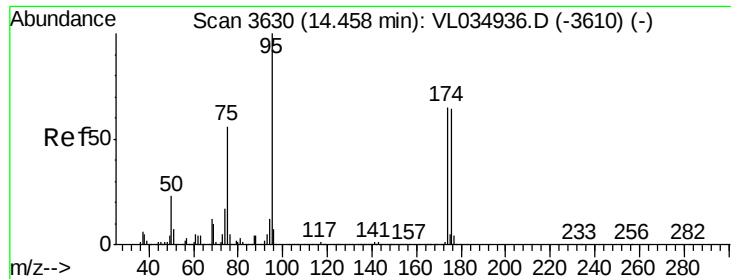
Ion Ratio Lower Upper

117 100

82 69.7 53.1 79.7

119 33.1 26.7 40.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.651 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. -0.03 min
 Lab File: VL035052.D
 Acq: 19 May 2020 20:18

Instrument :
 MSVOA_L
 ClientSampleId :
 IR-BR-IA

Tot Ion: 95 Resp: 2098945
 Ion Ratio Lower Upper
 95 100
 174 63.8 51.5 77.3
 175 4.6 3.8 5.8

Manual Integrations
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