

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033650.D
 Acq On : 3 May 2019 5:42
 Operator : SY/AP
 Sample : K2628-13
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-13

Manual Integrations
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 5/5/2019 10:54:59 PM

Quant Time: May 03 09:11:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 09:11:36 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	844184	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1992688	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	1983632	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1667545	11.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	65801	0.517	ppbv	91
3) Chlorodifluoromethane	3.01	51	727243m	7.205	ppbv	
4) Chloromethane	3.17	50	30335	0.552	ppbv	94
10) Heptane	8.24	43	16314	0.153	ppbv	95
11) Trichlorofluoromethane	4.00	101	45894	0.304	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.55	101	9243	0.089	ppbv	98
13) Ethanol	3.65	45	1819081	138.822	ppbv	99
15) Acetone	3.90	43	554268	5.393	ppbv	100
19) Isopropyl Alcohol	4.03	45	318432	4.514	ppbv #	95
20) Methylene Chloride	4.40	84	49160	1.227	ppbv #	82
26) Hexane	5.78	57	59535	0.725	ppbv #	53
34) 2-Butanone	5.33	43	26653	0.218	ppbv	97
35) Carbon Tetrachloride	7.13	117	11535m	0.073	ppbv	
36) Benzene	7.00	78	18477m	0.109	ppbv	
53) Toluene	9.94	91	2259291	10.544	ppbv	98

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

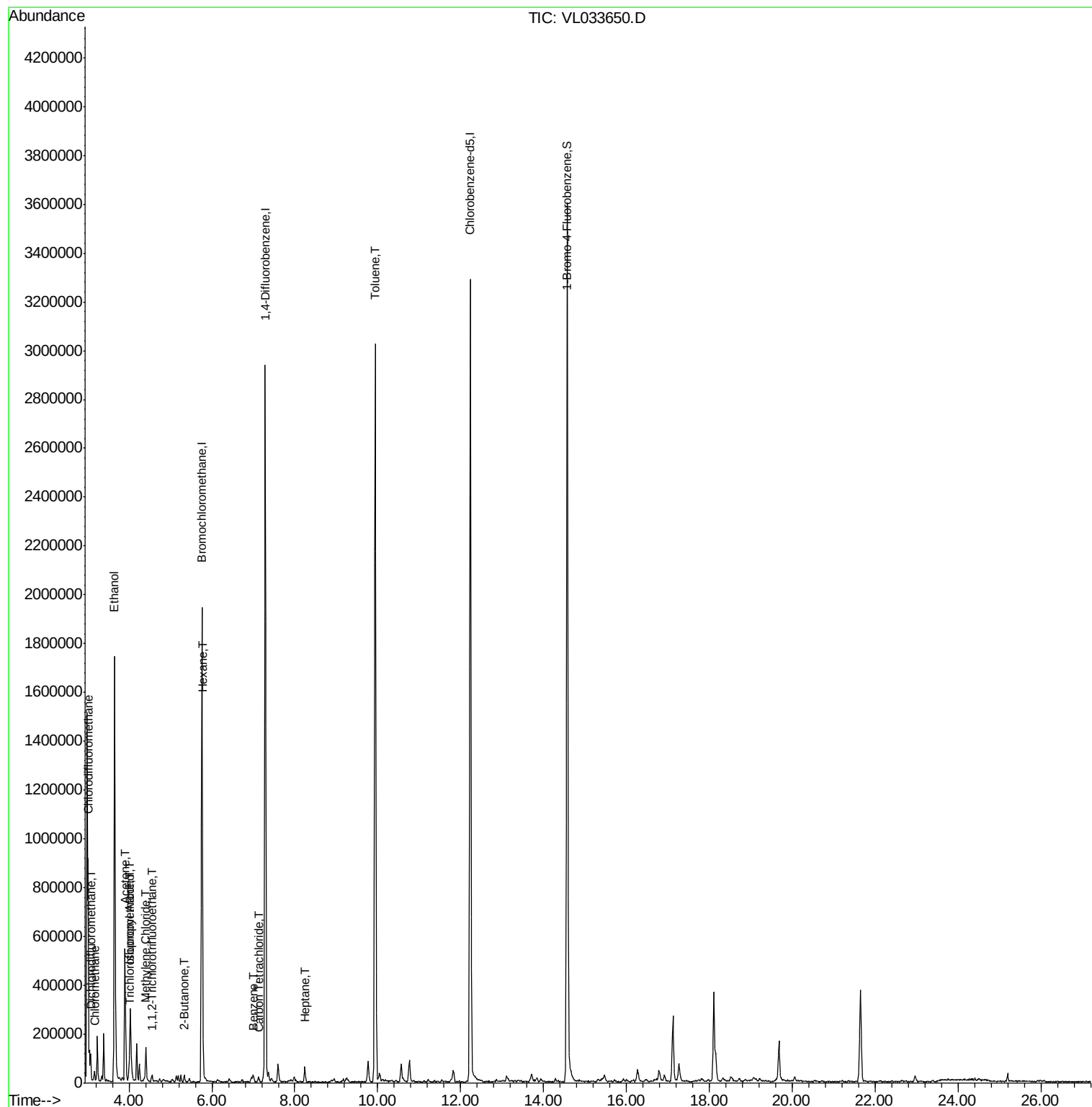
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050219\
Data File : VL033650.D
Acq On : 3 May 2019 5:42
Operator : SY/AP
Sample : K2628-13
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

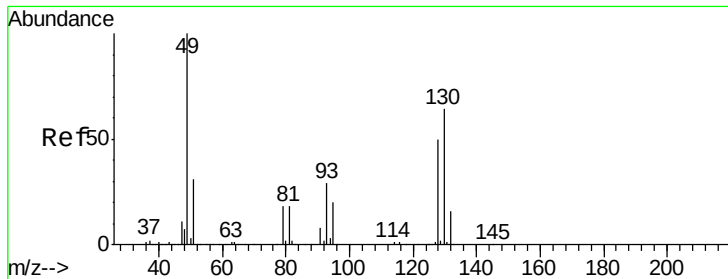
Instrument :
MSVOA_L
ClientSampleId :
A-13

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Quant Time: May 03 09:11:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 02 06:29:02 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL033650.D

Acq: 3 May 2019 5:42

Instrument :

MSVOA_L

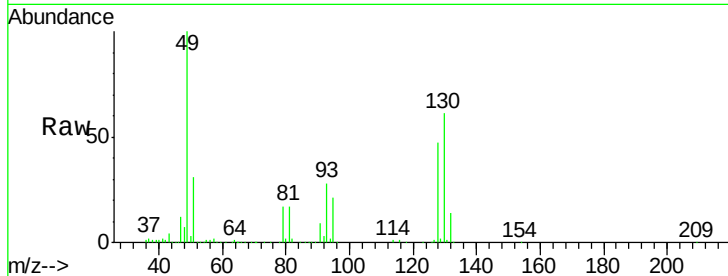
ClientSampled :

A-13

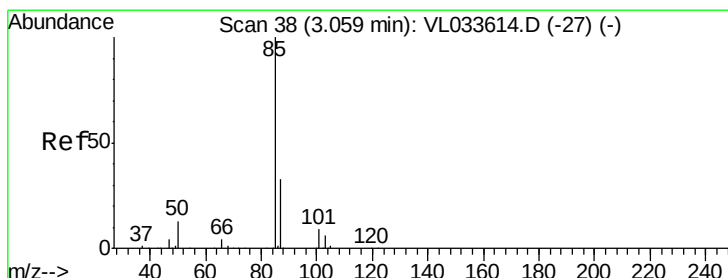
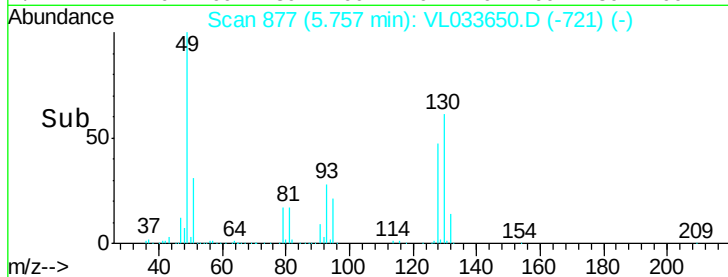
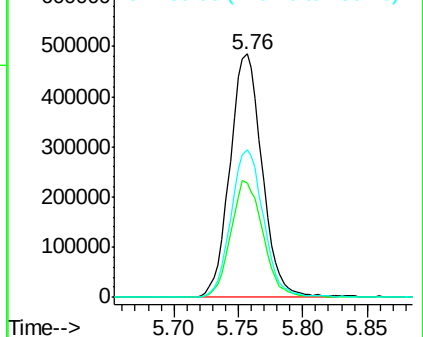
Tot Ion:	49	Resp:	844184
Ion Ratio	Lower	Upper	
49	100		
128	48.1	25.0	75.0
130	61.9	31.9	95.9

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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.517 ppbv

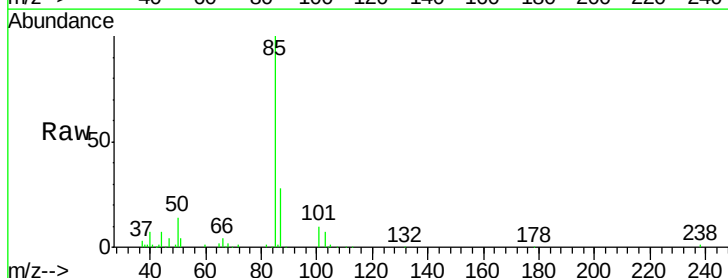
RT: 3.08 min Scan# 43

Delta R.T. 0.02 min

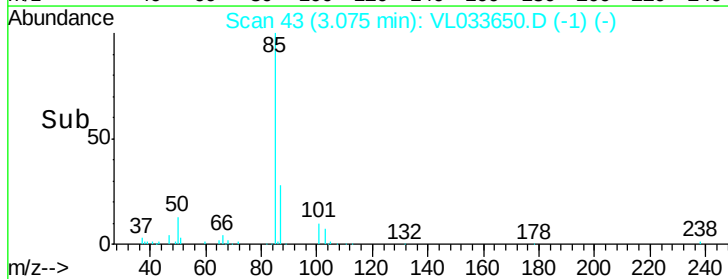
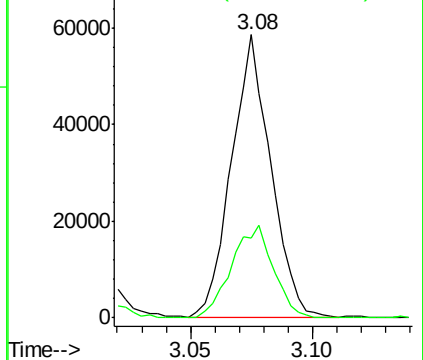
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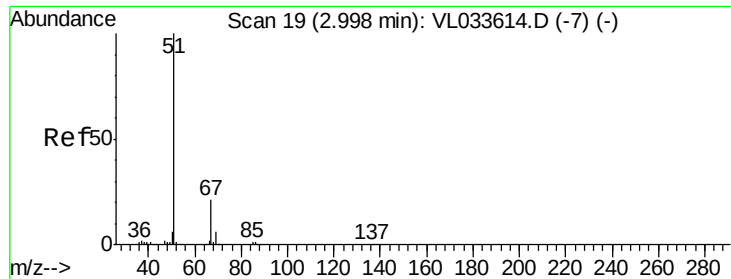
Acq: 3 May 2019 5:42

Tgt Ion:	85	Resp:	65801
Ion Ratio	Lower	Upper	
85	100		
87	28.2	26.8	40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 7.205 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.02 min

Lab File: VL033650.D

Acq: 3 May 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 51 Resp: 727243

Ion Ratio Lower Upper

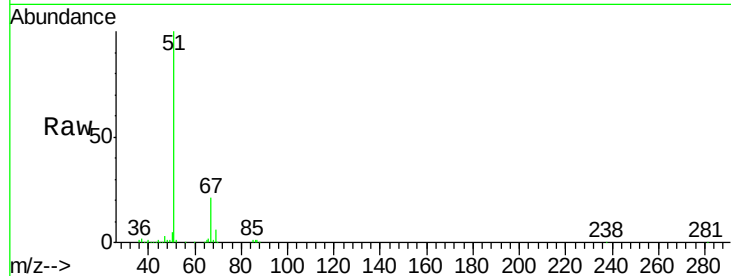
51 100

67 21.7 15.6 23.4

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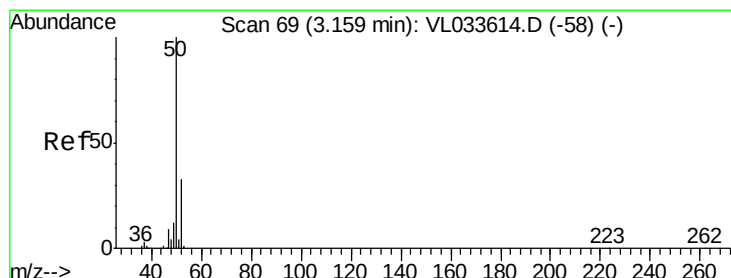
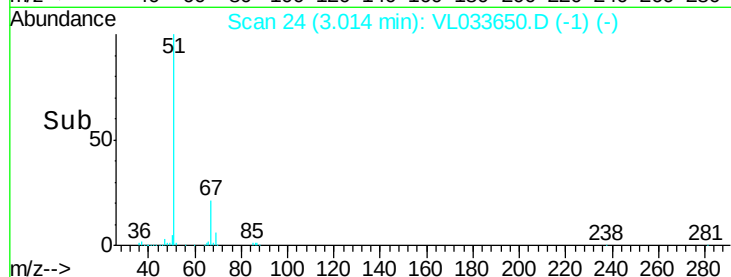
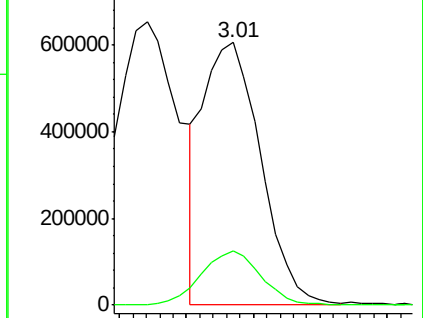
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.552 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL033650.D

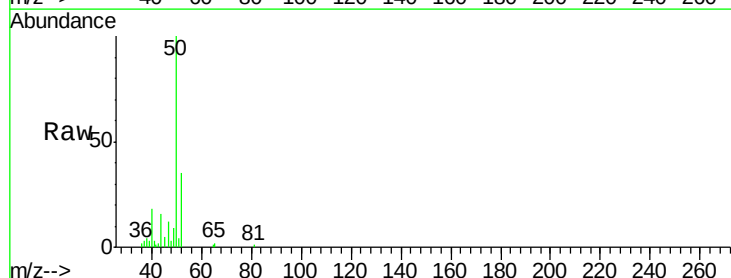
Acq: 3 May 2019 5:42

Tgt Ion: 50 Resp: 30335

Ion Ratio Lower Upper

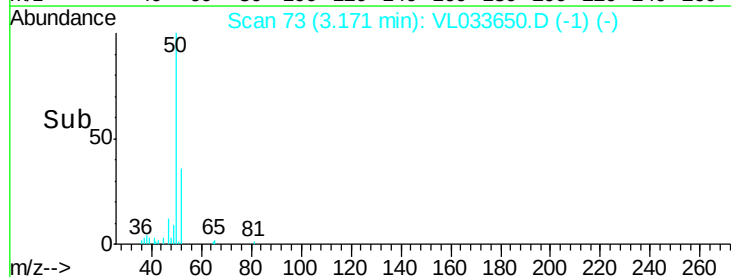
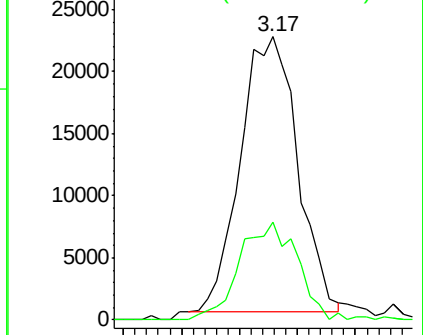
50 100

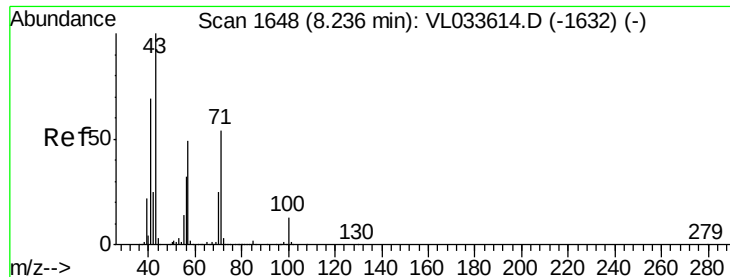
52 35.8 26.0 39.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





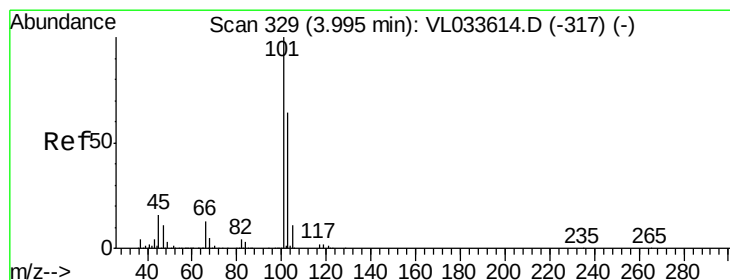
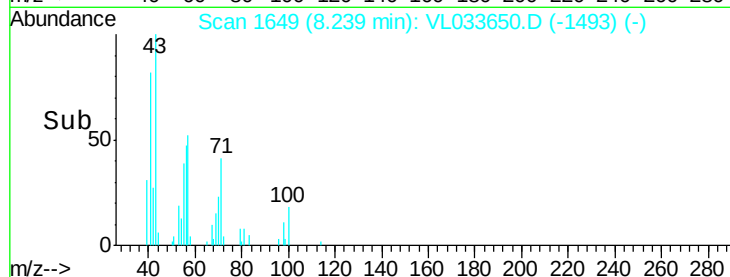
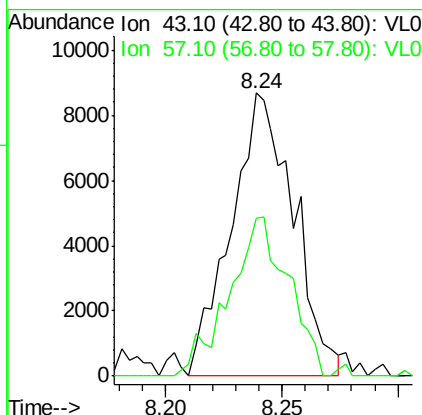
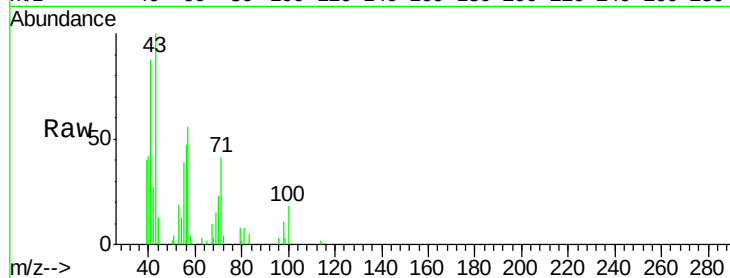
#10
 Heptane
 Concen: 0.153 ppbv
 RT: 8.24 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VL033650.D
 Acq: 3 May 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleId :
 A-13

Tot Ion: 43 Resp: 16314
 Ion Ratio Lower Upper
 43 100
 57 53.7 40.3 60.5

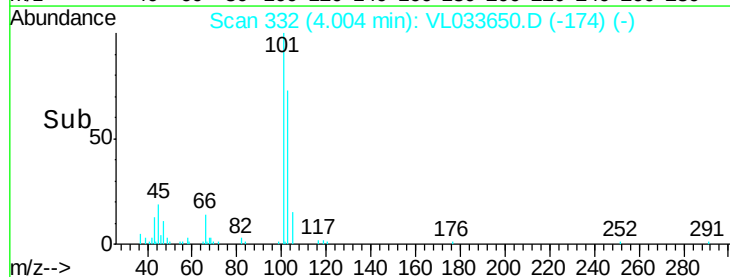
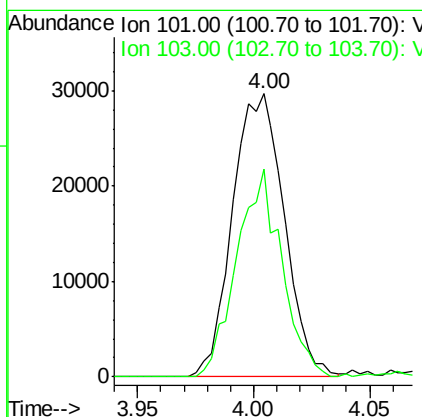
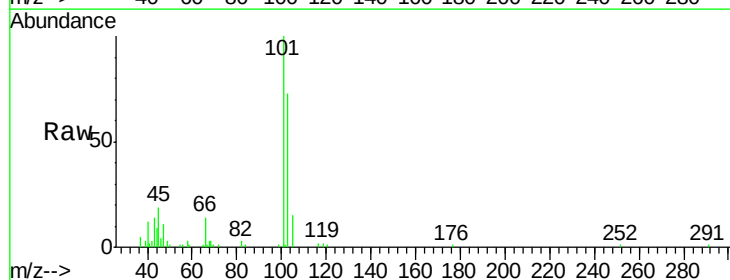
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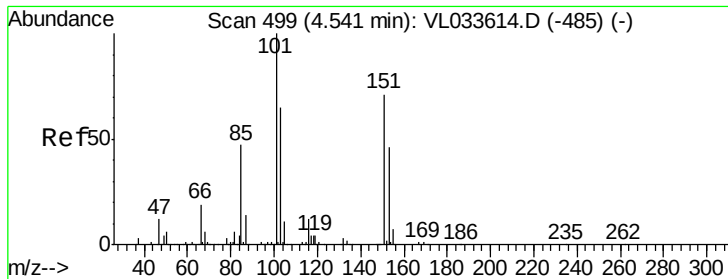
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#11
 Trichlorofluoromethane
 Concen: 0.304 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL033650.D
 Acq: 3 May 2019 5:42

Tgt Ion: 101 Resp: 45894
 Ion Ratio Lower Upper
 101 100
 103 73.3 51.2 76.8





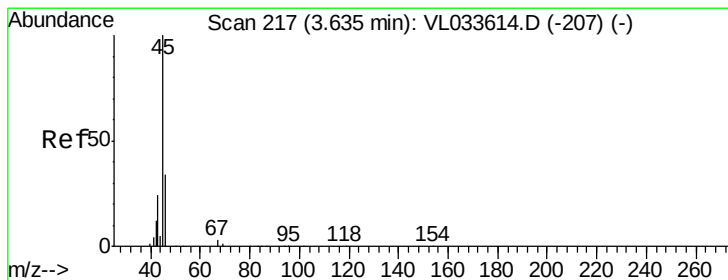
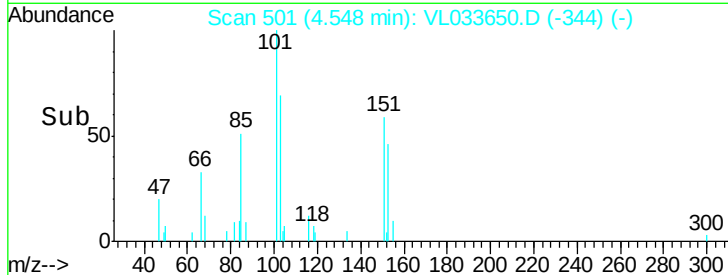
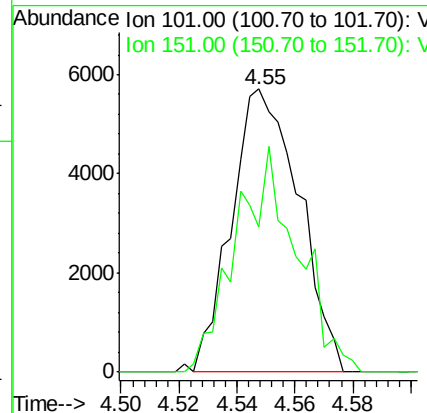
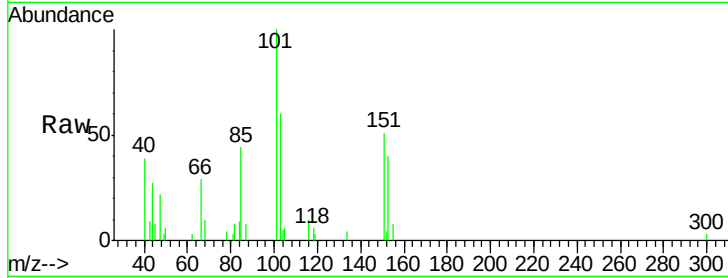
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.089 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VL033650.D
 Acq: 3 May 2019 5:42

Instrument :
 MSVOA_L
 ClientSampled :
 A-13

Tot Ion: 101 Resp: 9243
 Ion Ratio Lower Upper
 101 100
 151 72.7 59.2 88.8

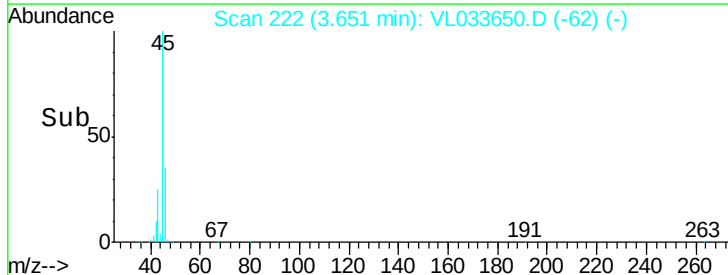
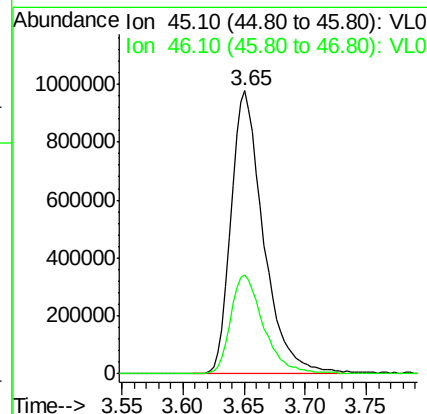
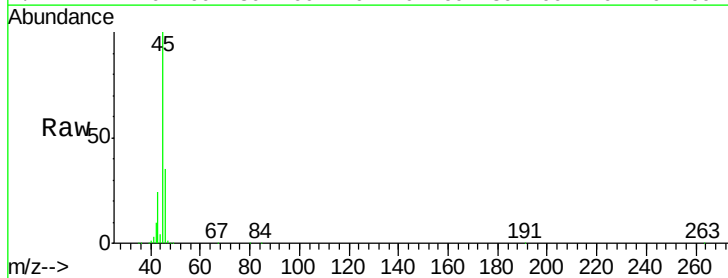
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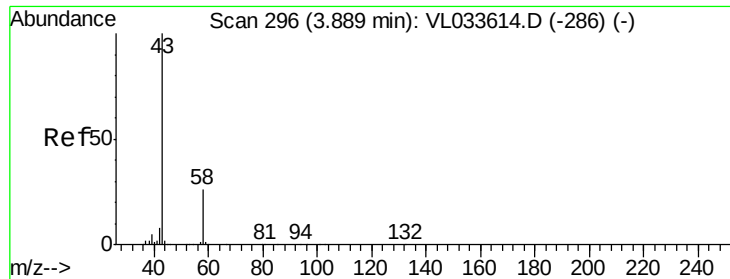
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#13
 Ethanol
 Concen: 138.822 ppbv
 RT: 3.65 min Scan# 222
 Delta R.T. 0.02 min
 Lab File: VL033650.D
 Acq: 3 May 2019 5:42

Tgt Ion: 45 Resp: 1819081
 Ion Ratio Lower Upper
 45 100
 46 36.0 14.6 58.2





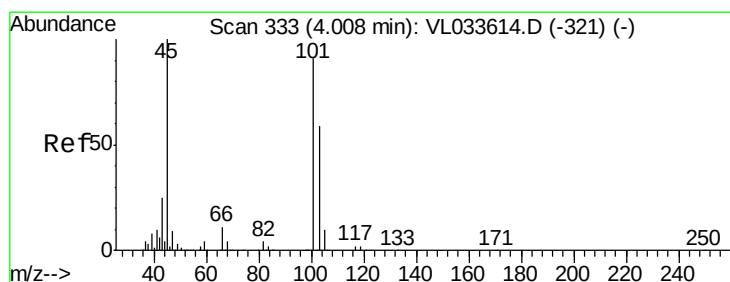
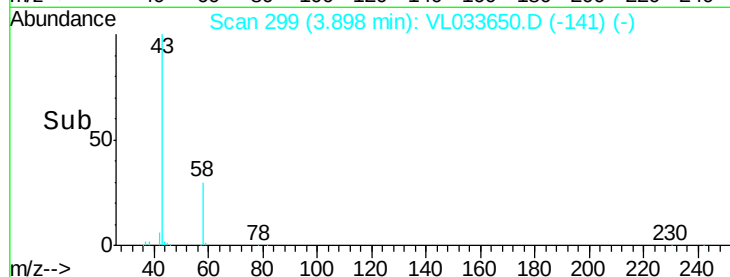
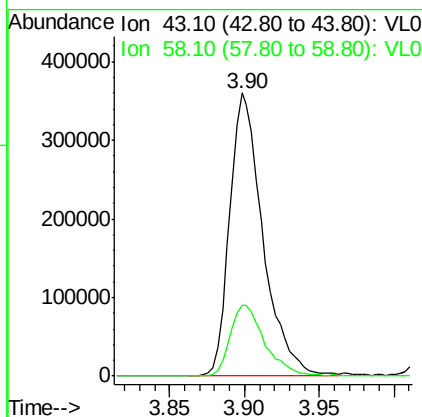
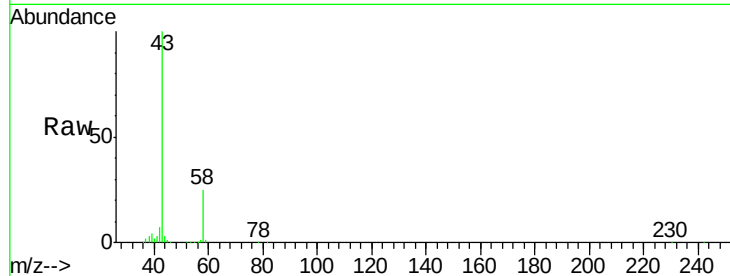
#15
Acetone
Concen: 5.393 ppbv
RT: 3.90 min Scan# 299
Delta R.T. 0.01 min
Lab File: VL033650.D
Acq: 3 May 2019 5:42

Instrument :
MSVOA_L
ClientSampled :
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Tot Ion	43	Resp	554268
Ion Ratio	100	Lower	Upper
58	26.5	21.2	31.8

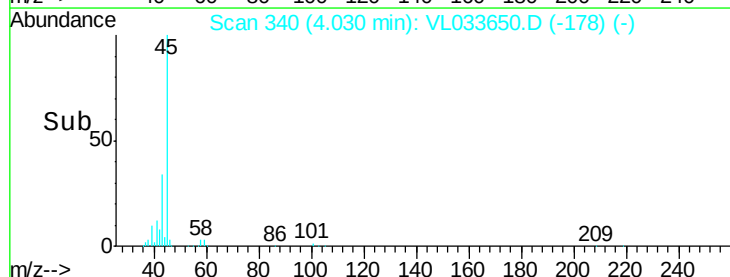
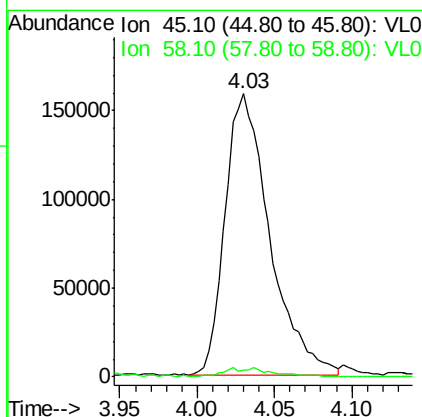
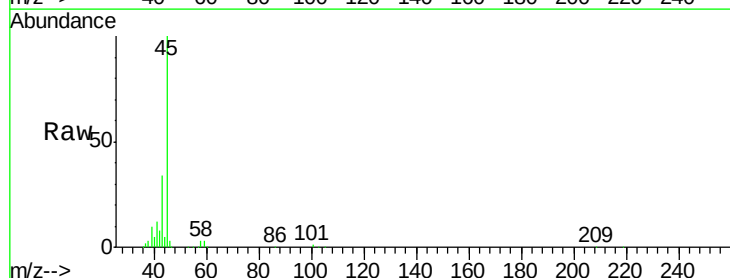
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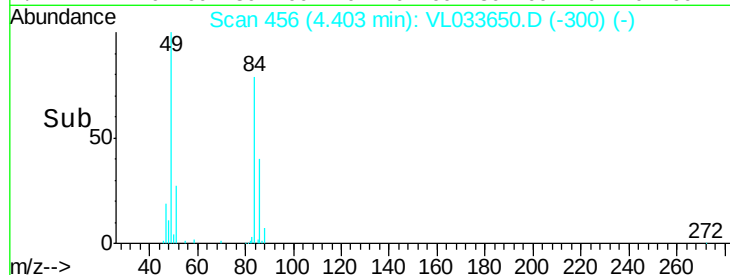
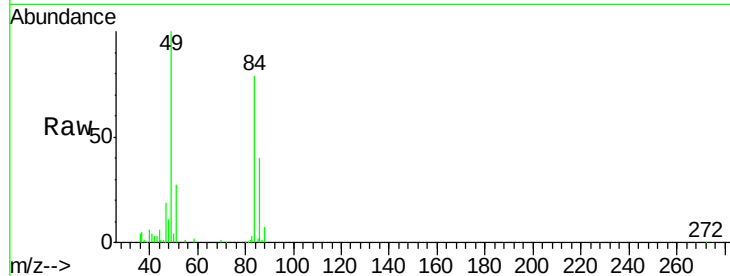
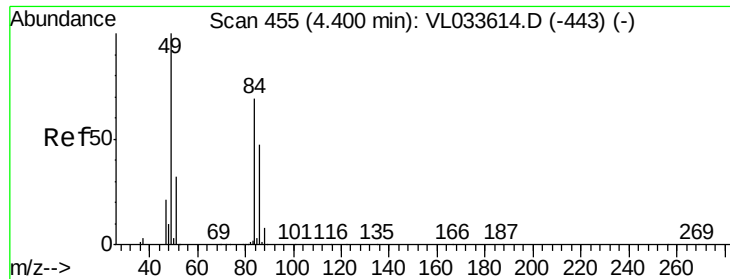
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#19
Isopropyl Alcohol
Concen: 4.514 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.02 min
Lab File: VL033650.D
Acq: 3 May 2019 5:42

Tgt Ion	45	Resp	318432
Ion Ratio	100	Lower	Upper
58	3.8	1.8	2.6#





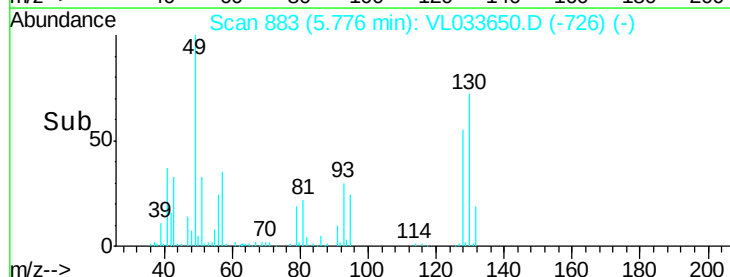
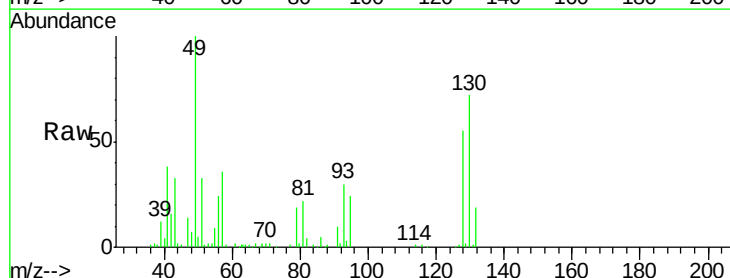
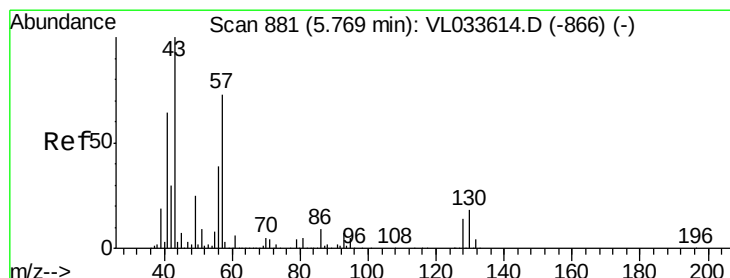
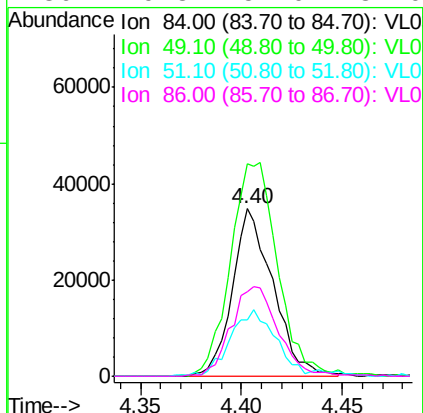
#20
Methvlene Chloride
Concen: 1.227 ppbv
RT: 4.40 min Scan# 456
Delta R.T. 0.00 min
Lab File: VL033650.D
Acq: 3 May 2019 5:42

Tot Ion	84	Resp	49160
Ion Ratio	100	Lower	Upper
49	126.6	116.2	174.2
51	32.7	37.0	55.6#
86	49.8	54.0	81.0#

Instrument :
MSVOA_L
ClientSampleId :
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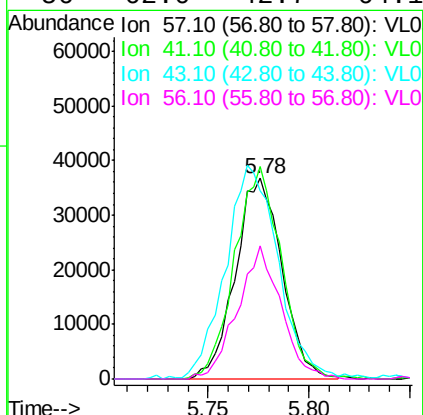
Manual Integrations
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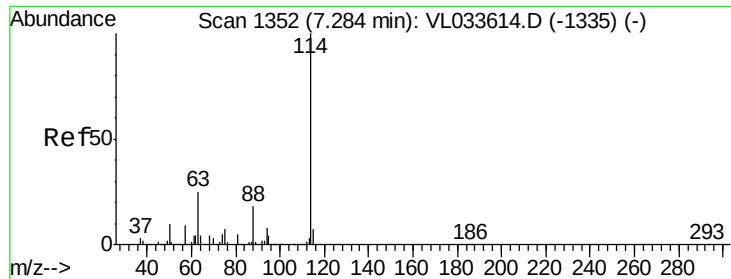
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#26
Hexane
Concen: 0.725 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033650.D
Acq: 3 May 2019 5:42

Tgt Ion	57	Resp	59535
Ion Ratio	100	Lower	Upper
41	105.9	70.6	106.0
43	122.5	186.0	279.0#
56	62.0	42.7	64.1





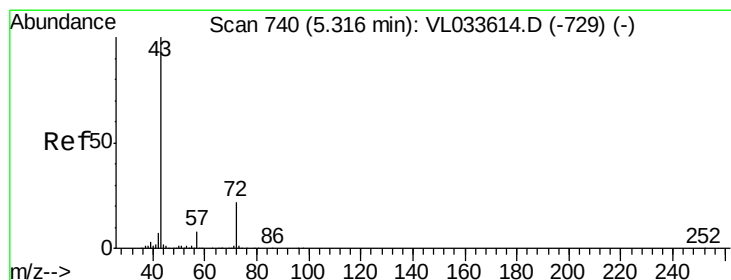
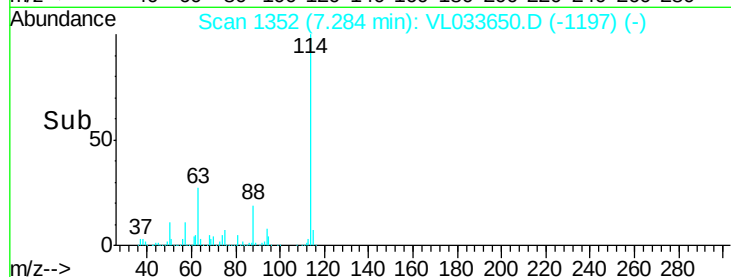
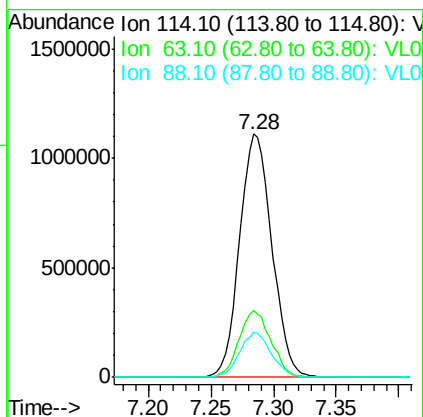
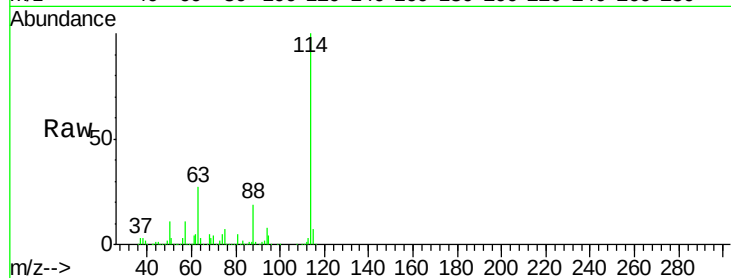
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.00 min
 Lab File: VL033650.D
 Acq: 3 May 2019 5:42

Instrument :
 MSVOA_L
 ClientSampled :
 A-13

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.1	31.7
88	18.0	14.2	21.4

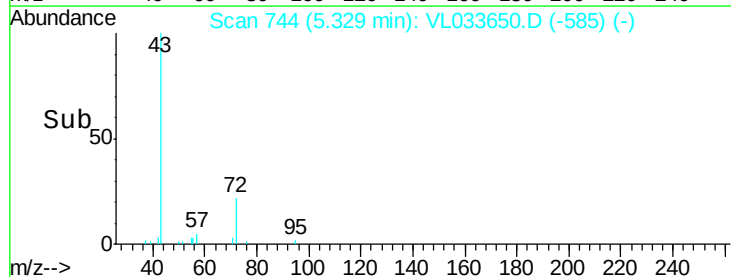
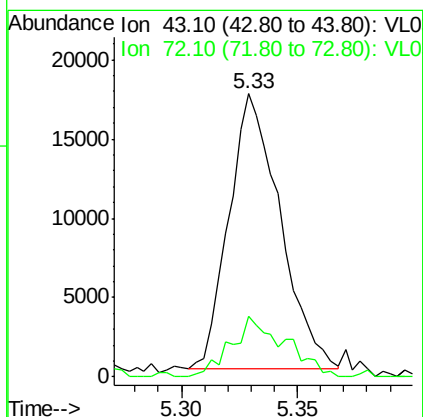
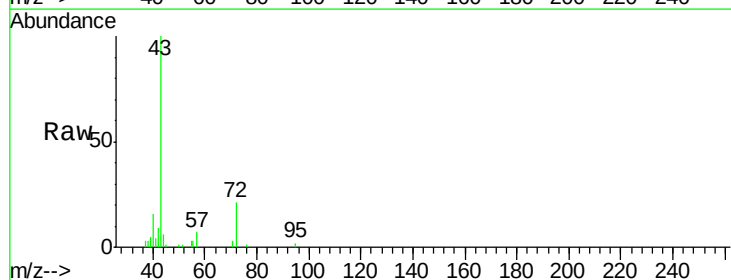
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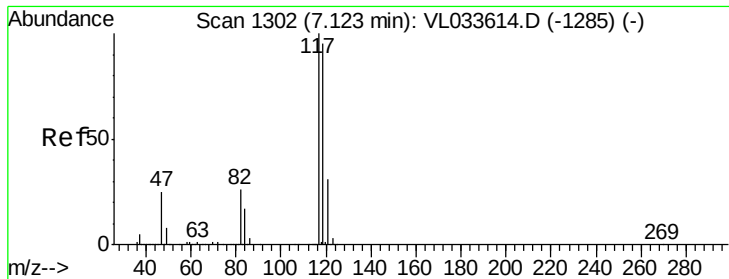
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#34
 2-Butanone
 Concen: 0.218 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.01 min
 Lab File: VL033650.D
 Acq: 3 May 2019 5:42

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	17.8	26.8





#35

Carbon Tetrachloride

Concen: 0.073 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL033650.D

Acq: 3 May 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

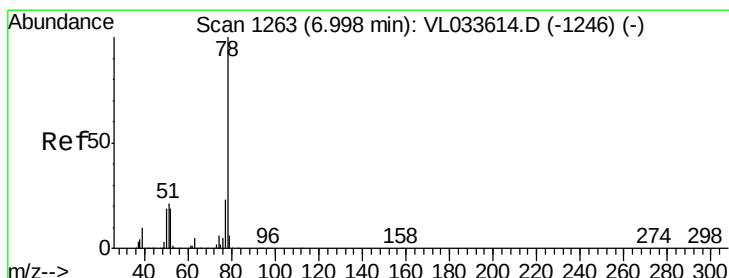
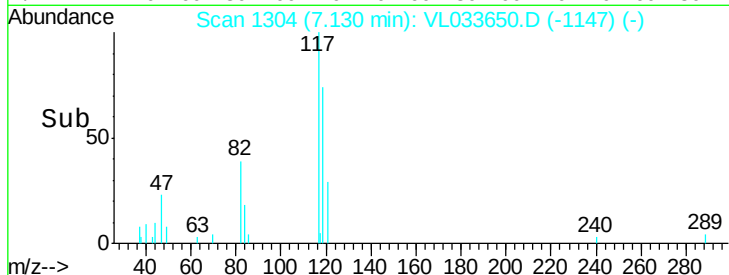
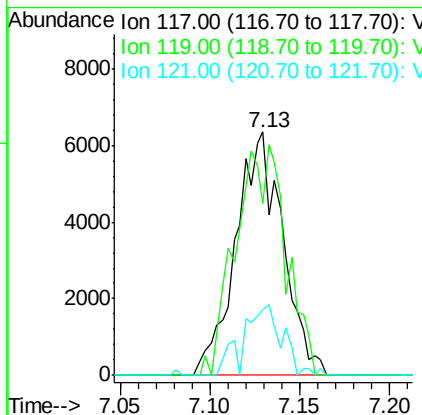
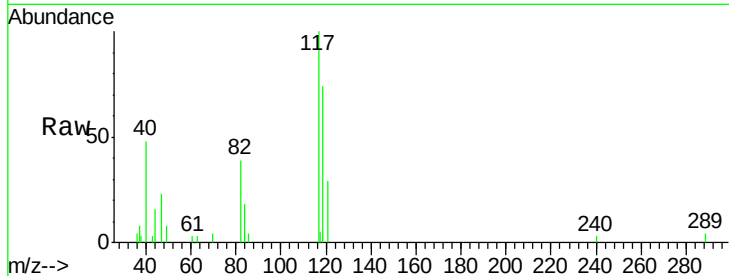
A-13

Tot Ion	Ratio	Lower	Upper
117	100		
119	74.0	76.2	114.4#
121	28.5	24.9	37.3

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#36

Benzene

Concen: 0.109 ppbv m

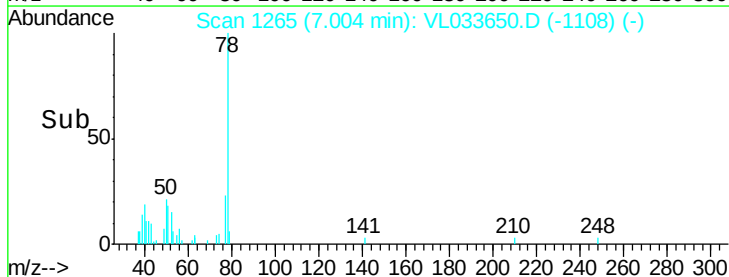
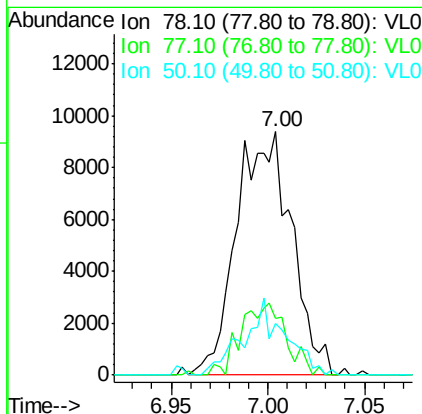
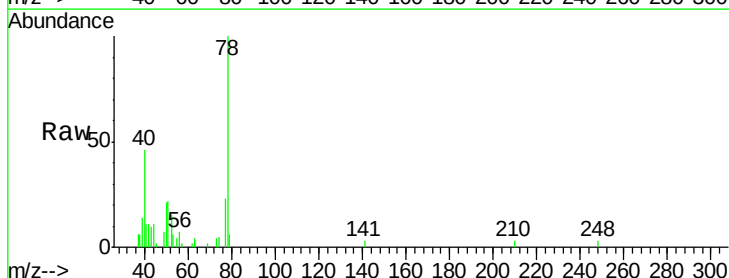
RT: 7.00 min Scan# 1265

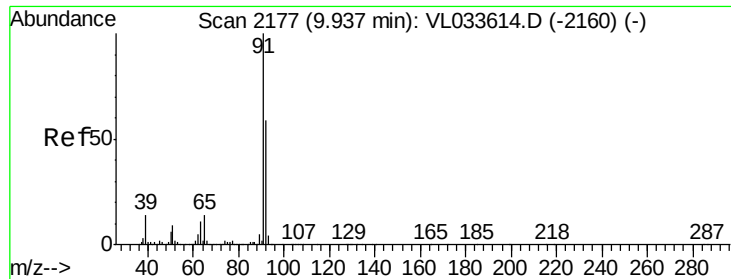
Delta R.T. 0.01 min

Lab File: VL033650.D

Acq: 3 May 2019 5:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.1	27.1
50	21.2	15.1	22.7





#53

Toluene

Concen: 10.544 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. 0.00 min

Lab File: VL033650.D

Acq: 3 May 2019 5:42

Instrument :

MSVOA_L

ClientSampleId :

A-13

Tot Ion: 91 Resp: 2259291

Ion Ratio Lower Upper

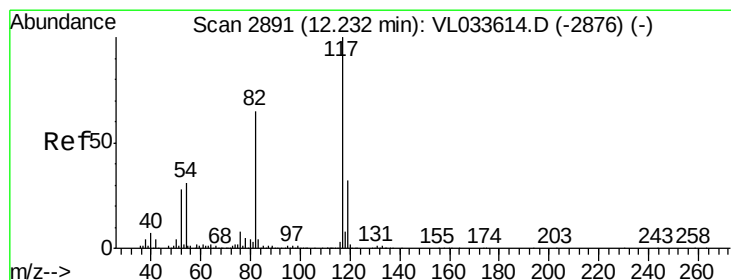
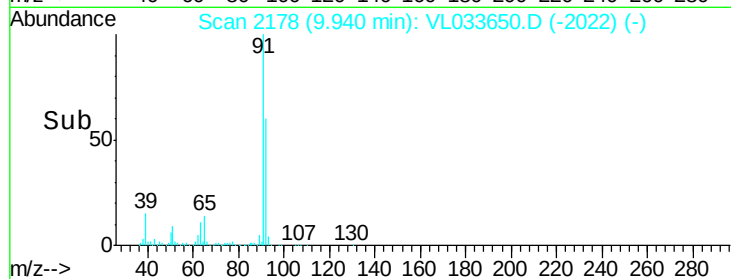
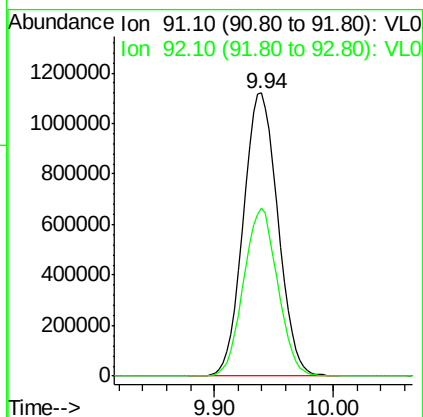
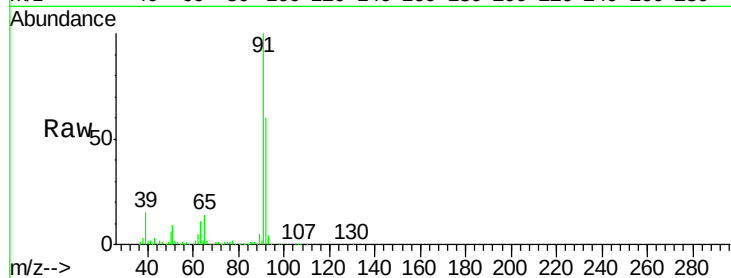
91 100

92 58.3 47.8 71.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL033650.D

Acq: 3 May 2019 5:42

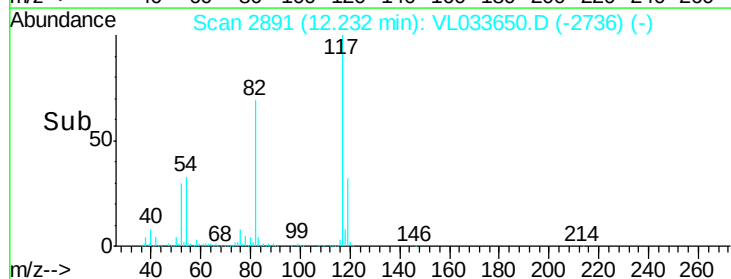
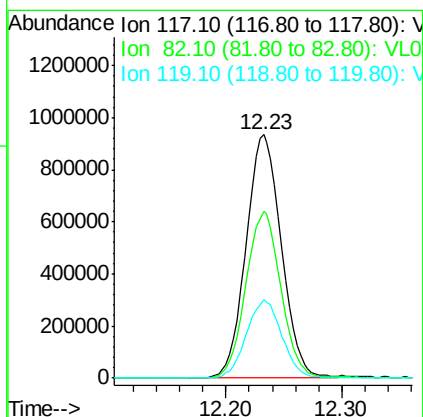
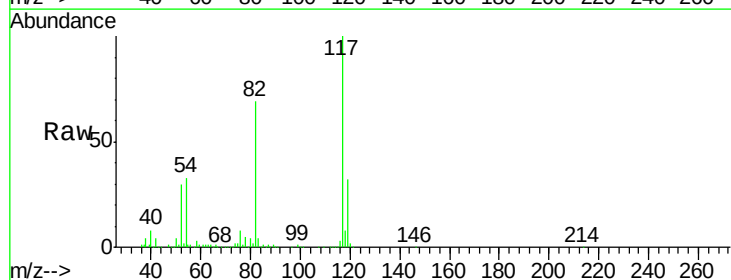
Tgt Ion: 117 Resp: 1983632

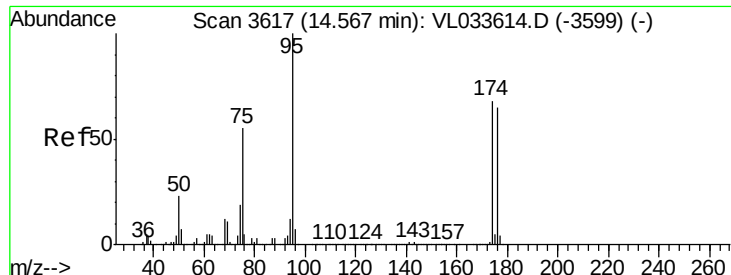
Ion Ratio Lower Upper

117 100

82 68.5 52.6 78.8

119 32.6 28.3 42.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.042 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. 0.00 min
 Lab File: VL033650.D
 Acq: 3 May 2019 5:42

Instrument :
 MSVOA_L
 ClientSampleId :
 A-13

Tot Ion: 95 Resp: 1667545
 Ion Ratio Lower Upper
 95 100
 174 66.4 53.9 80.9
 175 4.7 4.0 6.0

Manual Integrations
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sam
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