

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033630.D
 Acq On : 2 May 2019 16:24
 Operator : SY/AP
 Sample : K2628-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-3

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:33 AM

Quant Time: May 03 08:54:09 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 08:54:09 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	821838	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2129150	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2247066	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1749726	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	53122	0.429	ppbv	99
3) Chlorodifluoromethane	3.01	51	50269m	0.512	ppbv	
4) Chloromethane	3.17	50	32536	0.608	ppbv	93
9) Propene	3.05	41	27655m	0.983	ppbv	
11) Trichlorofluoromethane	4.00	101	43710	0.297	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	8878	0.088	ppbv	93
13) Ethanol	3.65	45	761798	59.717	ppbv	100
15) Acetone	3.90	43	507693	5.074	ppbv	93
19) Isopropyl Alcohol	4.03	45	191629	2.790	ppbv #	94
20) Methylene Chloride	4.41	84	50514	1.295	ppbv #	89
26) Hexane	5.78	57	174700	2.185	ppbv #	42
34) 2-Butanone	5.33	43	25761	0.197	ppbv	98
35) Carbon Tetrachloride	7.13	117	11538m	0.068	ppbv	
36) Benzene	7.00	78	16053	0.088	ppbv	93
53) Toluene	9.94	91	741718	3.240	ppbv	98

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

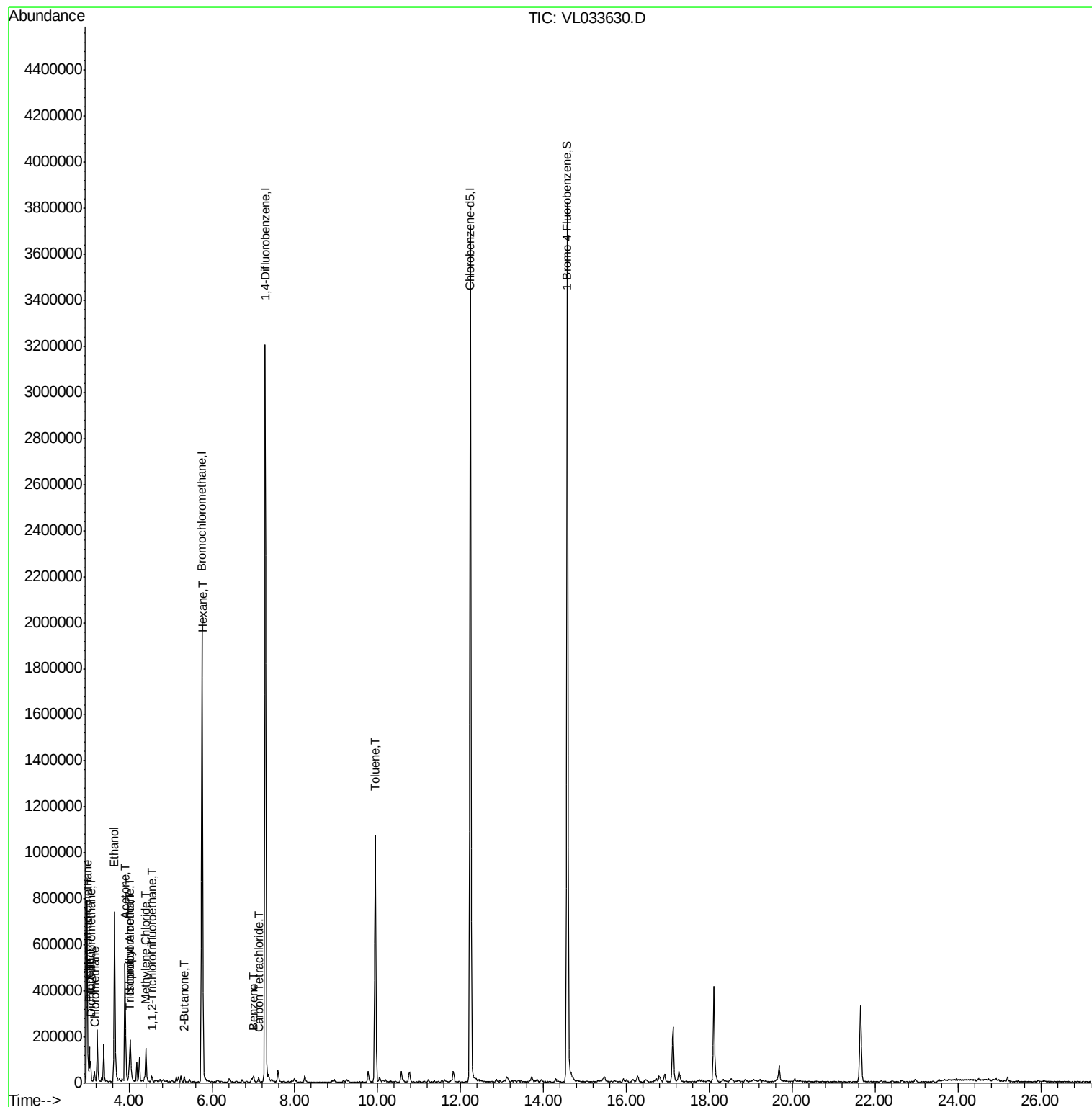
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050219\
Data File : VL033630.D
Acq On : 2 May 2019 16:24
Operator : SY/AP
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Misc : 400ml/MSVOA L
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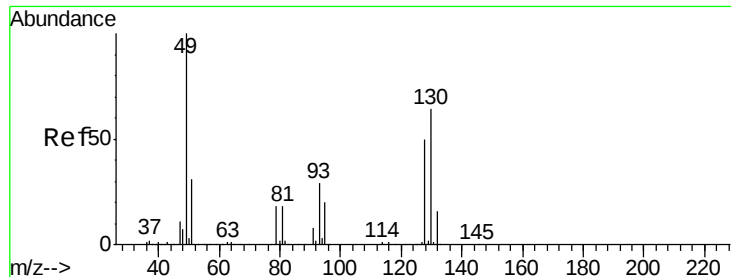
Instrument :
MSVOA_L
ClientSampleId :
A-3

Manual Integrations
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5/4/2019 7:18:33 AM

Quant Time: May 03 08:54:09 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: VL033630.D

Acq: 2 May 2019 16:24

Instrument :

MSVOA_L

ClientSampled :

A-3

Tot Ion: 49 Resp: 821838

Ion Ratio Lower Upper

49 100

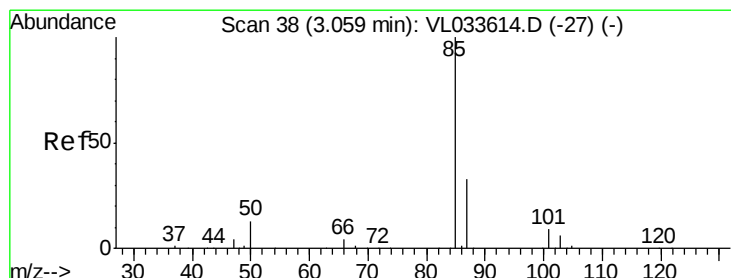
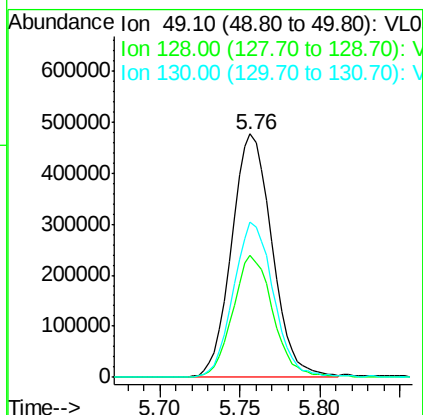
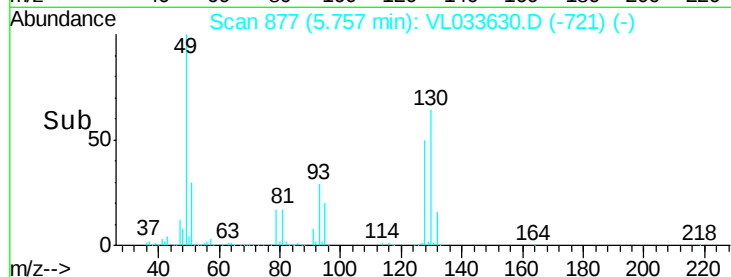
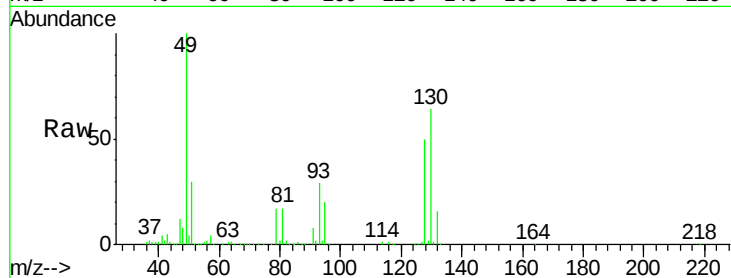
128 49.7 25.0 75.0

130 63.9 31.9 95.9

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#2

Dichlorodifluoromethane

Concen: 0.429 ppbv

RT: 3.08 min Scan# 43

Delta R.T. 0.02 min

Lab File: VL033630.D

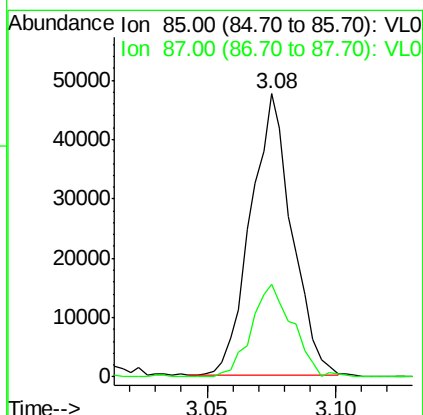
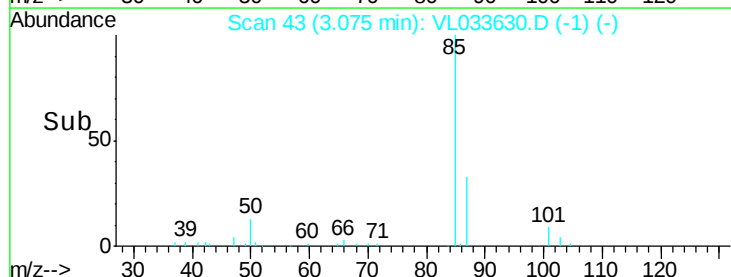
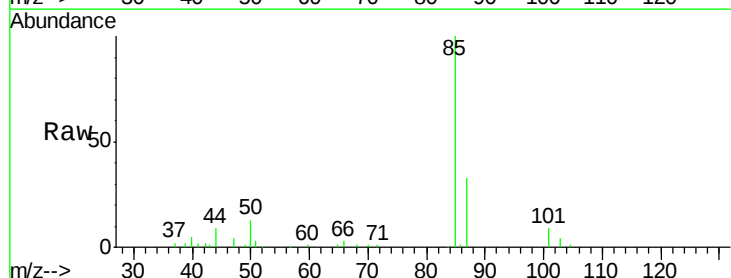
Acq: 2 May 2019 16:24

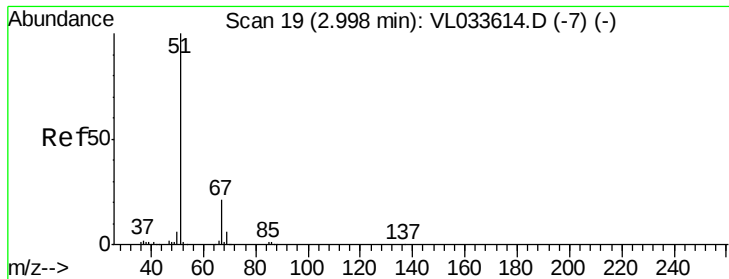
Tgt Ion: 85 Resp: 53122

Ion Ratio Lower Upper

85 100

87 33.0 26.8 40.2





#3

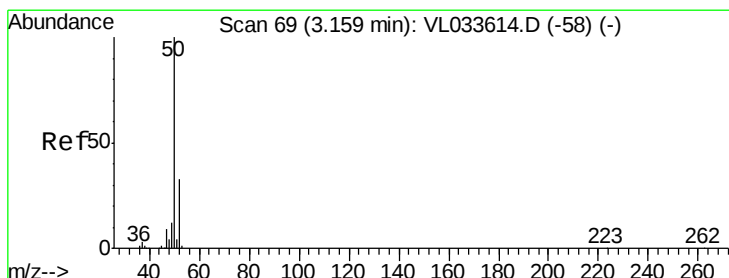
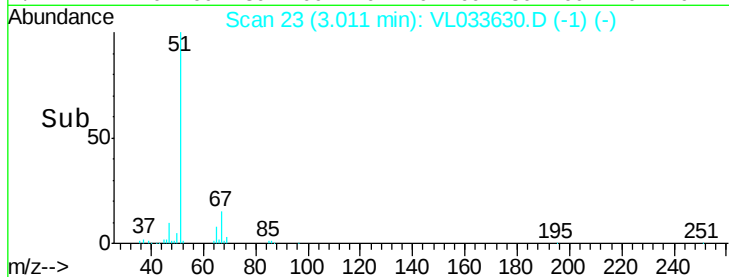
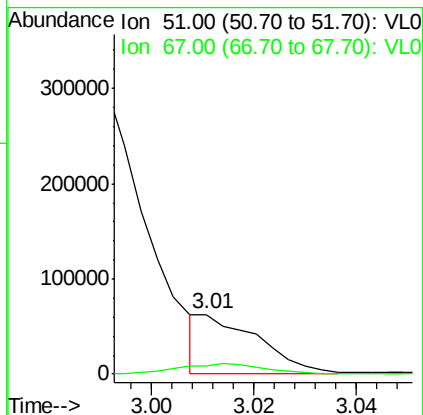
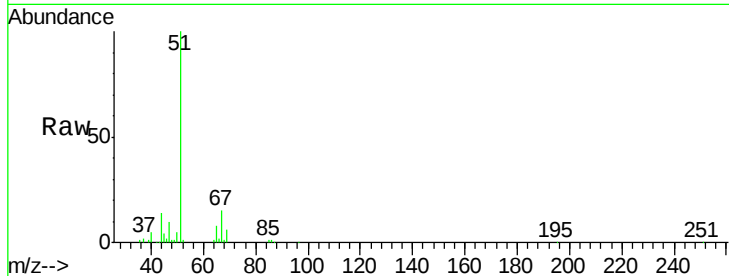
Chlorodifluoromethane
Concen: 0.512 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.01 min
Lab File: VL033630.D
Acq: 2 May 2019 16:24

Instrument :
MSVOA_L
ClientSampleId :
A-3

Tot Ion	51	Resp	50269
Ion Ratio	100	Lower	Upper
67	0.0	15.6	23.4#

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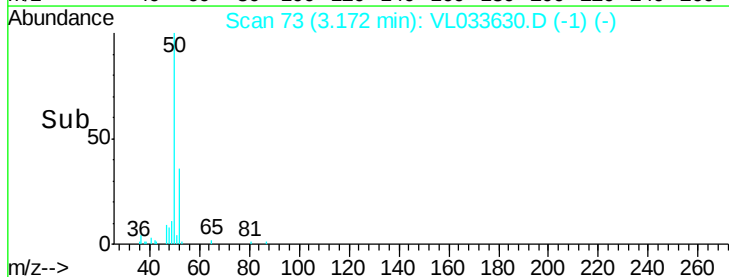
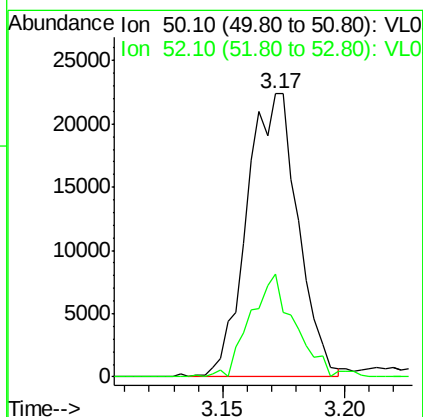
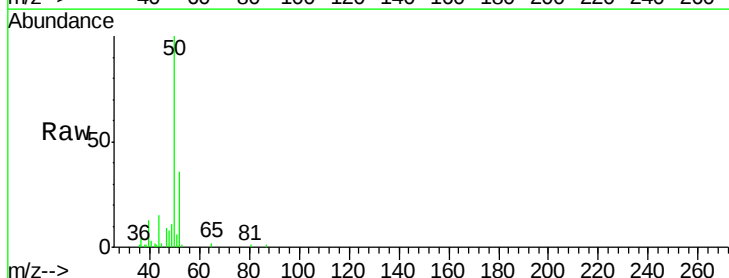
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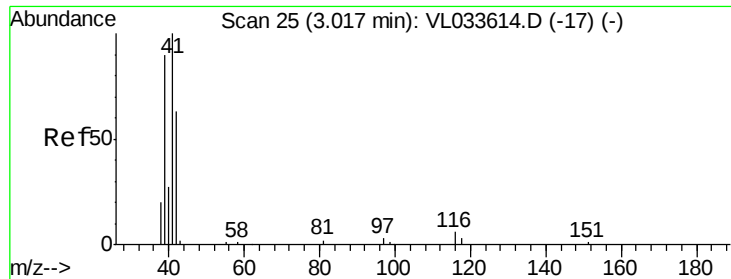


#4

Chloromethane
Concen: 0.608 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.01 min
Lab File: VL033630.D
Acq: 2 May 2019 16:24

Tgt Ion	50	Resp	32536
Ion Ratio	100	Lower	Upper
52	36.3	26.0	39.0





#9

Propene

Concen: 0.983 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.03 min

Lab File: VL033630.D

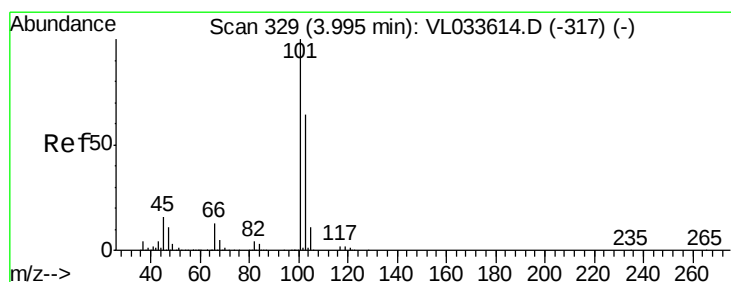
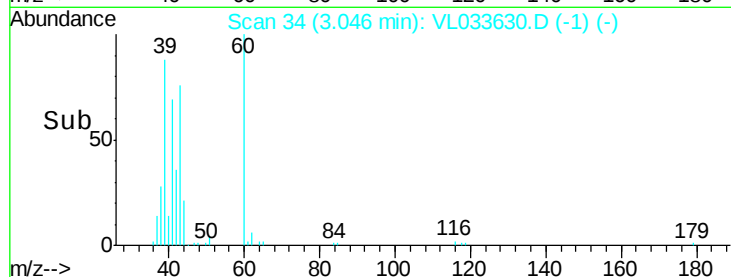
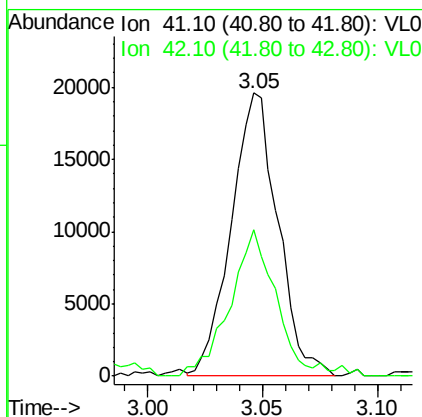
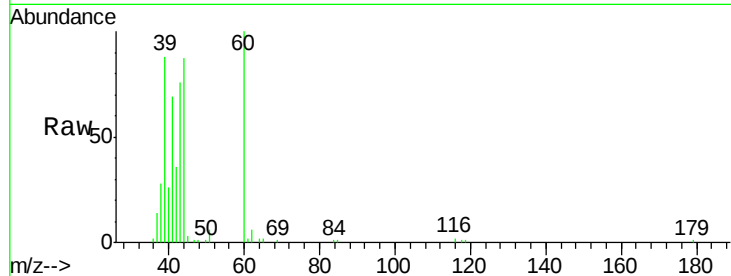
Acq: 2 May 2019 16:24

Instrument :
MSVOA_L
ClientSampleId :
A-3

Tot Ion: 41 Resp: 27655
Ion Ratio Lower Upper
41 100
42 132.2 66.0 99.0#

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#11

Trichlorofluoromethane

Concen: 0.297 ppbv

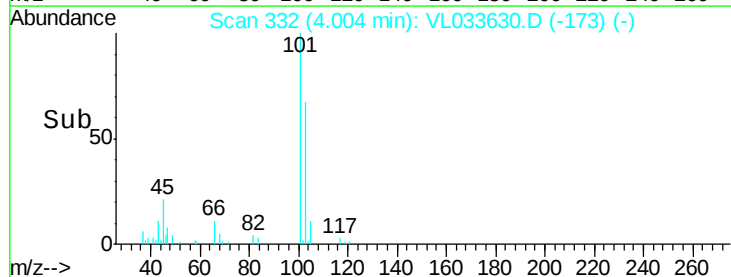
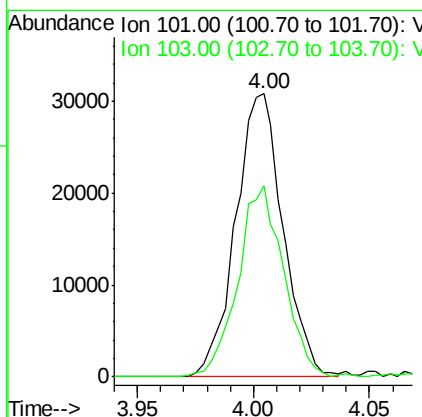
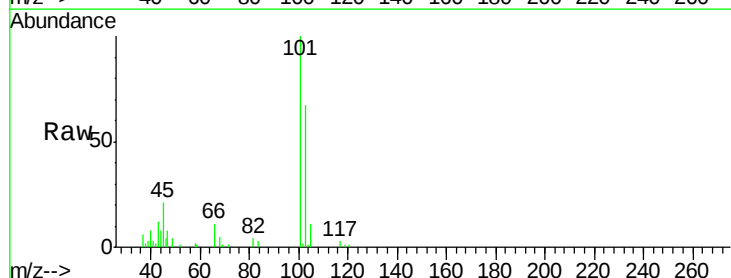
RT: 4.00 min Scan# 332

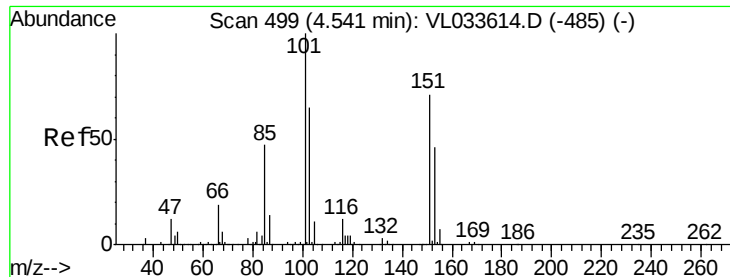
Delta R.T. 0.01 min

Lab File: VL033630.D

Acq: 2 May 2019 16:24

Tgt Ion: 101 Resp: 43710
Ion Ratio Lower Upper
101 100
103 66.9 51.2 76.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.088 ppbv

RT: 4.55 min Scan# 502

Delta R.T. 0.01 min

Lab File: VL033630.D

Acq: 2 May 2019 16:24

Instrument :

MSVOA_L

ClientSampled :

A-3

Tot Ion:101 Resp: 8878

Ion Ratio Lower Upper

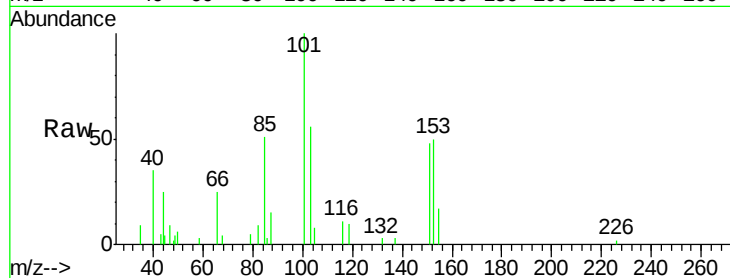
101 100

151 68.4 59.2 88.8

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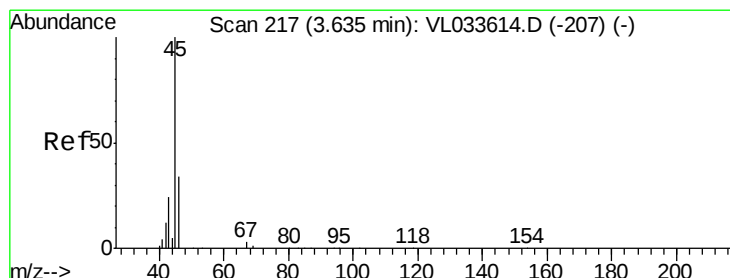
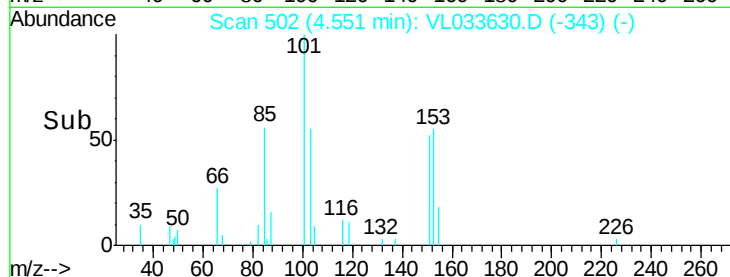
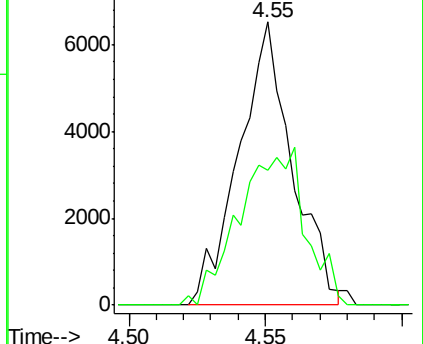
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 59.717 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.01 min

Lab File: VL033630.D

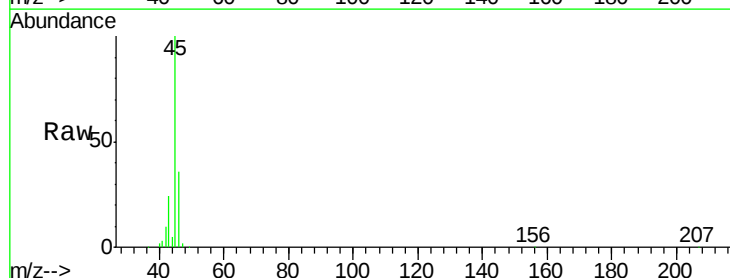
Acq: 2 May 2019 16:24

Tgt Ion: 45 Resp: 761798

Ion Ratio Lower Upper

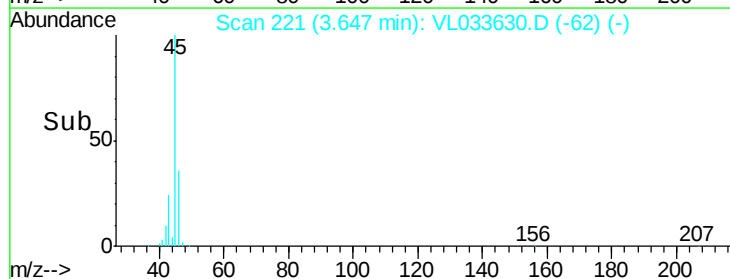
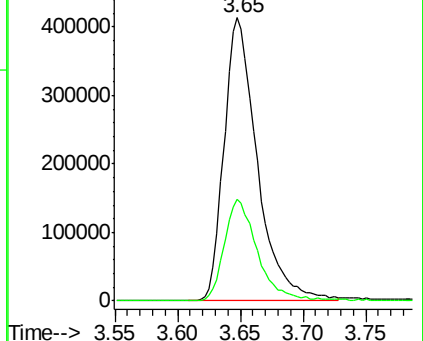
45 100

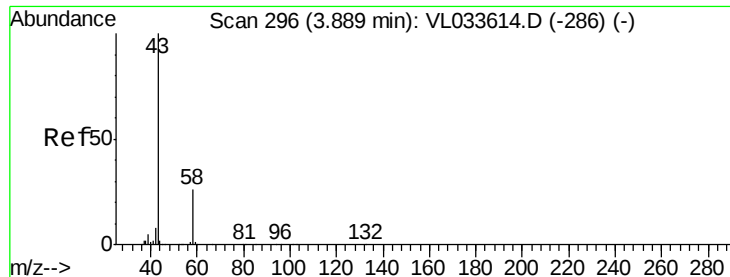
46 36.1 14.6 58.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.074 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033630.D

Acq: 2 May 2019 16:24

Instrument :

MSVOA_L

ClientSampleId :

A-3

Tot Ion: 43 Resp: 507693

Ion Ratio Lower Upper

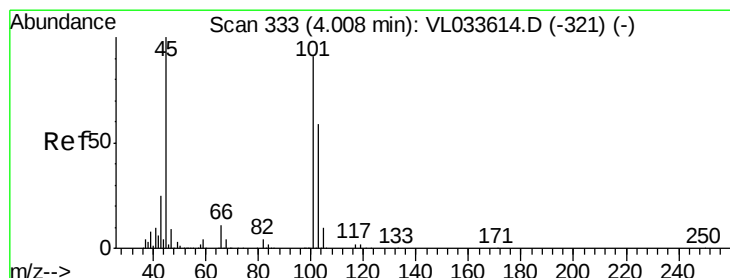
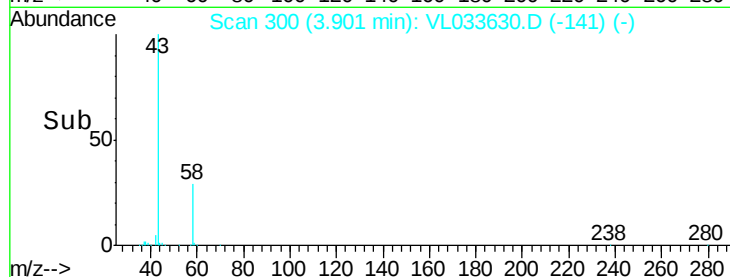
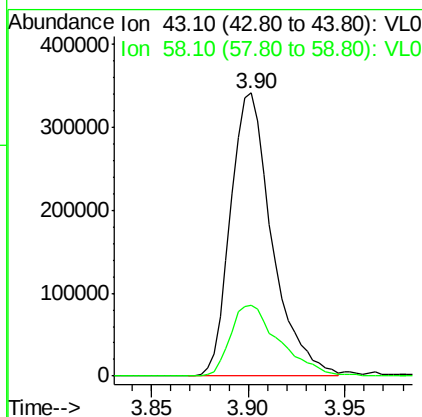
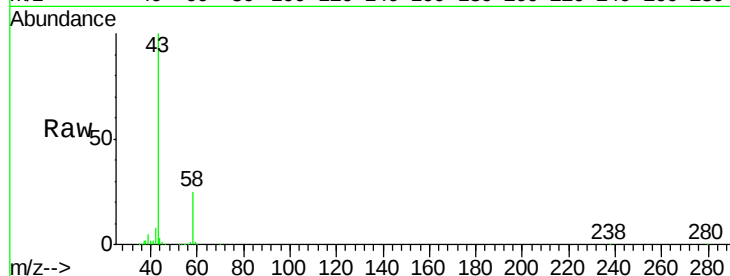
43 100

58 30.0 21.2 31.8

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#19

Isopropyl Alcohol

Concen: 2.790 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.02 min

Lab File: VL033630.D

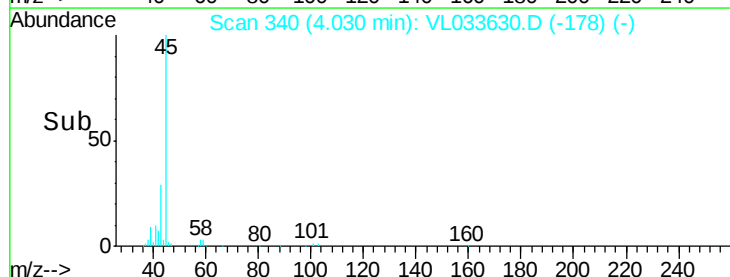
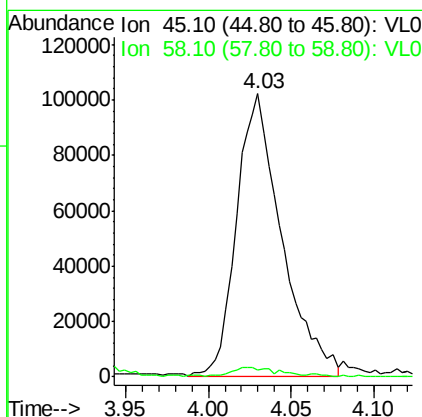
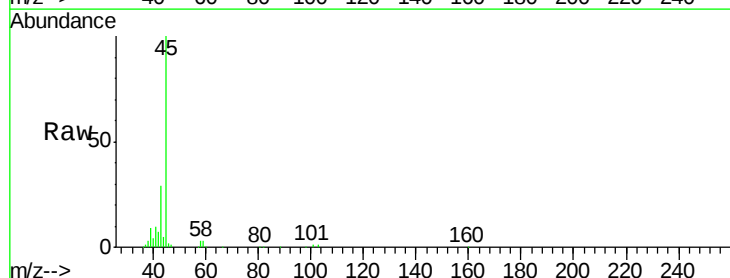
Acq: 2 May 2019 16:24

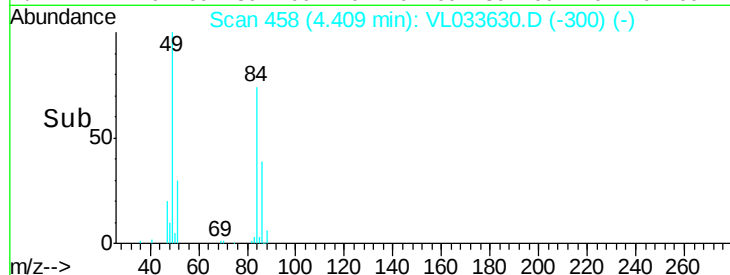
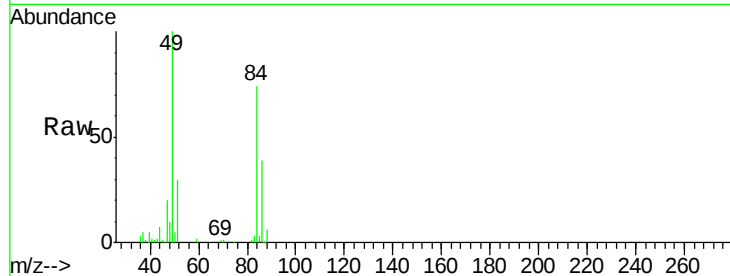
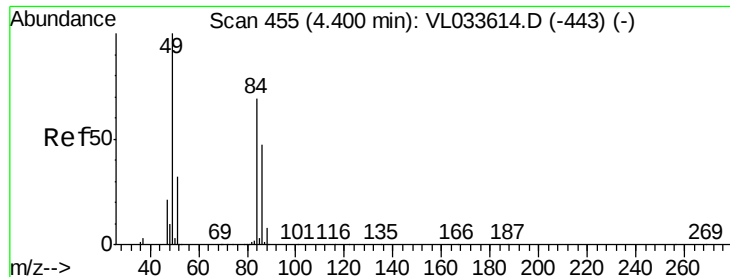
Tgt Ion: 45 Resp: 191629

Ion Ratio Lower Upper

45 100

58 4.4 1.8 2.6#





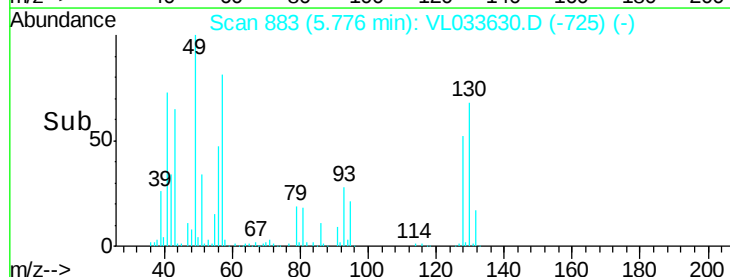
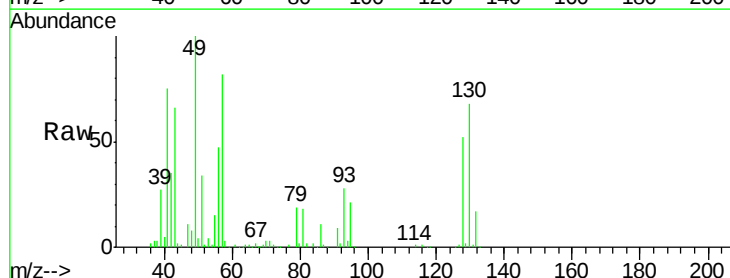
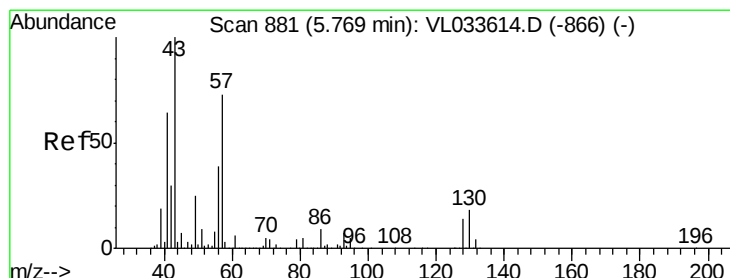
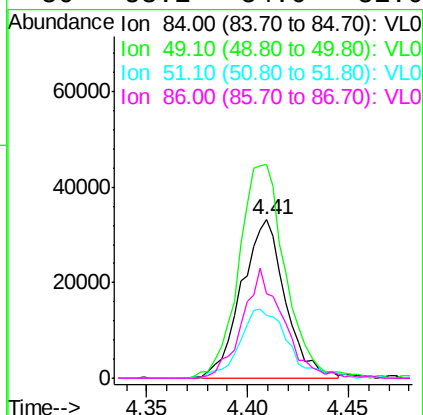
#20
Methvlene Chloride
Concen: 1.295 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.01 min
Lab File: VL033630.D
Acq: 2 May 2019 16:24

Tot Ion	Ratio	Lower	Upper
84	100		
49	134.7	116.2	174.2
51	39.9	37.0	55.6
86	53.1	54.0	81.0#

Instrument :
MSVOA_L
ClientSampleId :
A-3

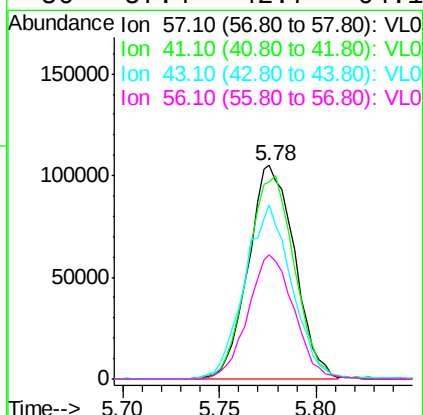
Manual Integrations
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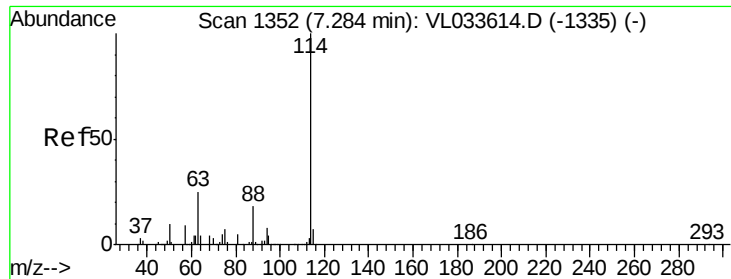
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#26
Hexane
Concen: 2.185 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033630.D
Acq: 2 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	97.2	70.6	106.0
43	84.1	186.0	279.0#
56	57.4	42.7	64.1





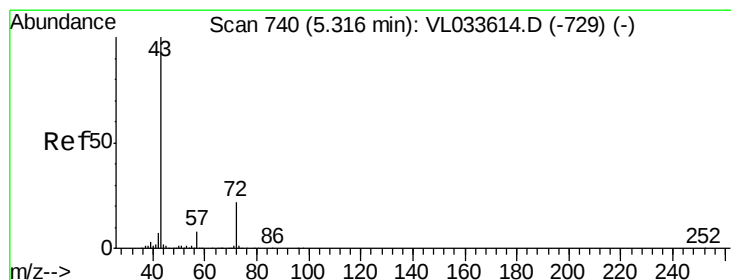
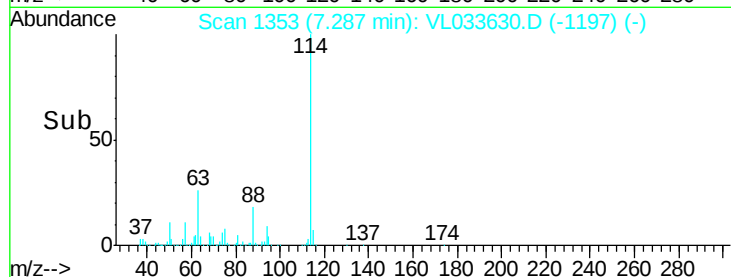
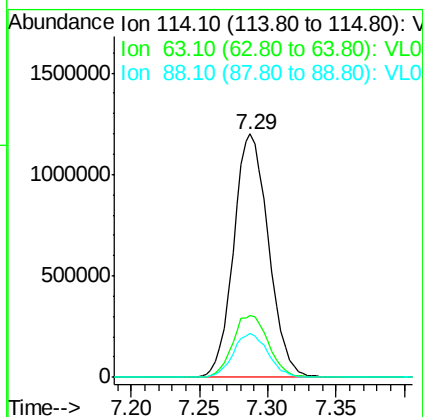
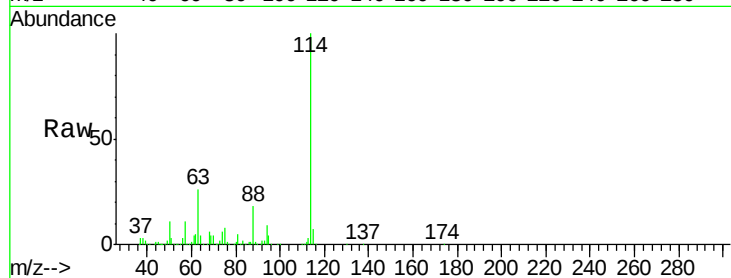
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. 0.00 min
 Lab File: VL033630.D
 Acq: 2 May 2019 16:24

Instrument :
 MSVOA_L
 ClientSampleId :
 A-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.2	21.1	31.7
88	18.0	14.2	21.4

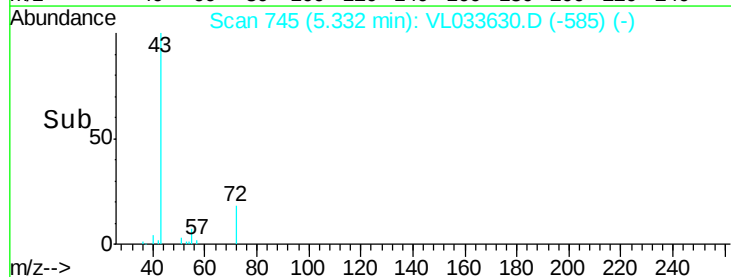
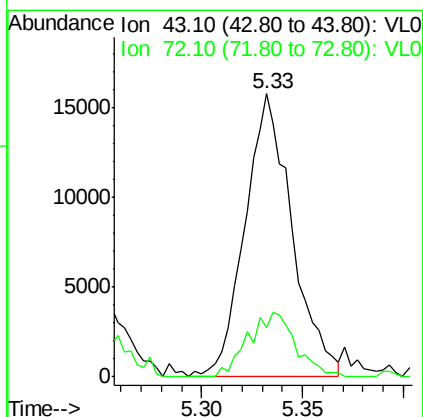
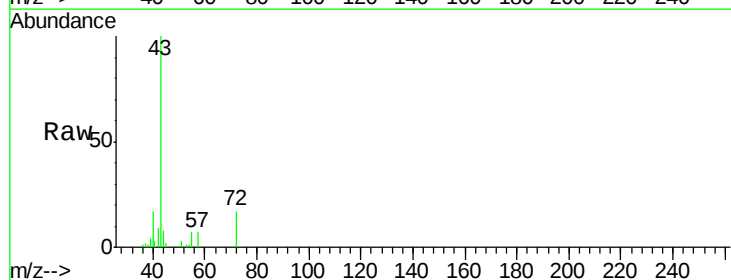
Manual Integrations
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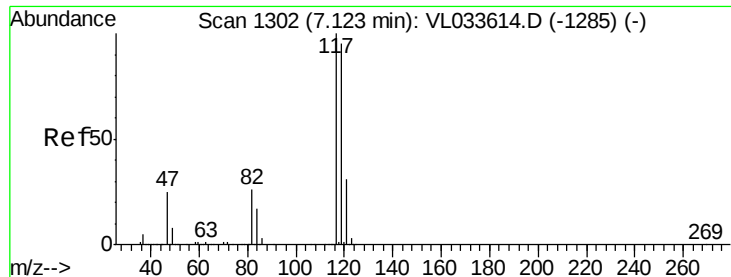
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 5/4/2019 7:18:33 AM



#34
 2-Butanone
 Concen: 0.197 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.02 min
 Lab File: VL033630.D
 Acq: 2 May 2019 16:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.0	17.8	26.8





#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.13 min Scan# 1304

Delta R.T. 0.01 min

Lab File: VL033630.D

Acq: 2 May 2019 16:24

Instrument :

MSVOA_L

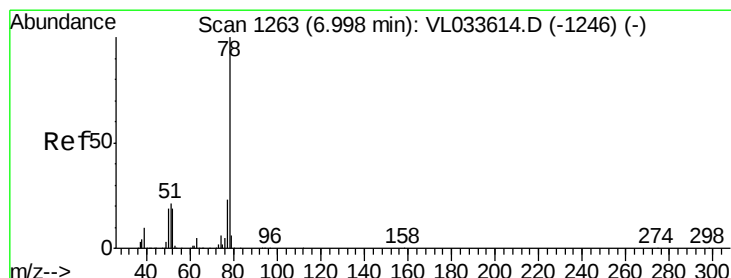
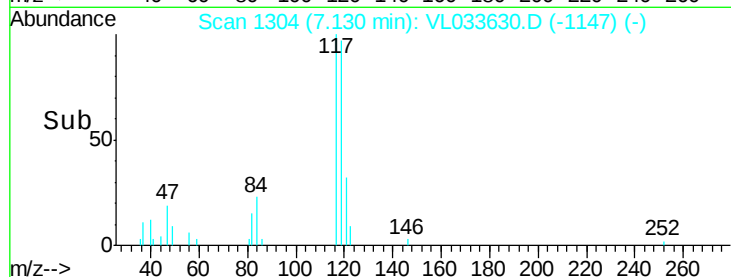
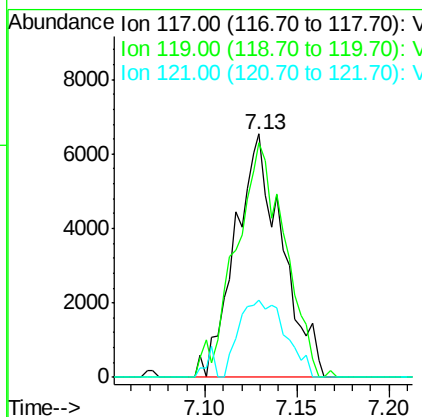
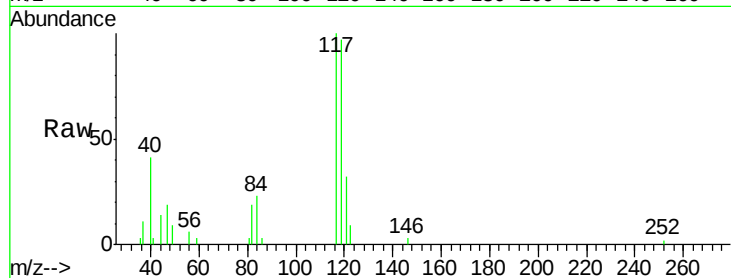
ClientSampleId :

A-3

Tot Ion:	117	Resp:	11538
Ion Ratio	Lower	Upper	
117	100		
119	96.6	76.2	114.4
121	31.7	24.9	37.3

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#36

Benzene

Concen: 0.088 ppbv

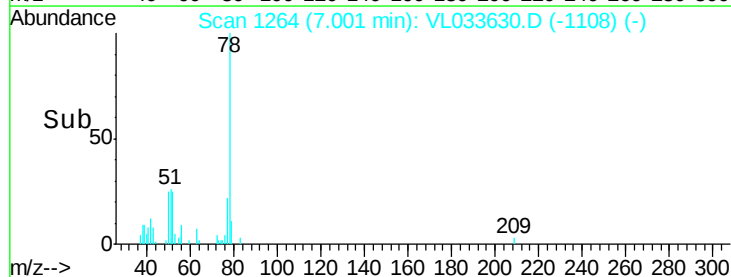
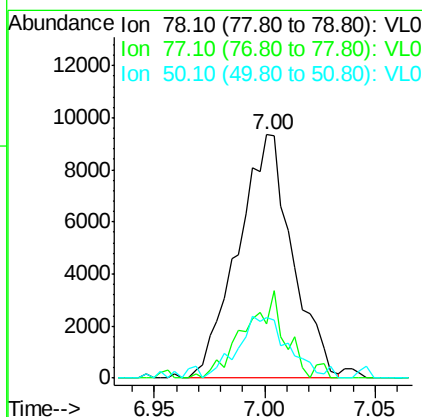
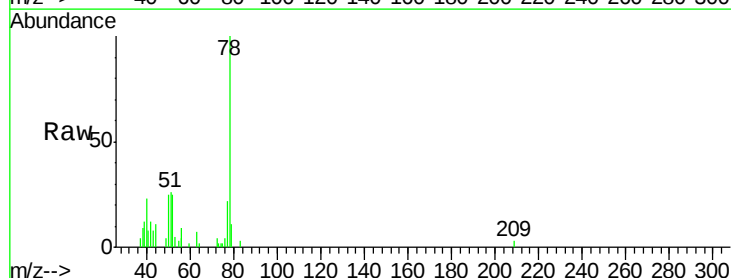
RT: 7.00 min Scan# 1264

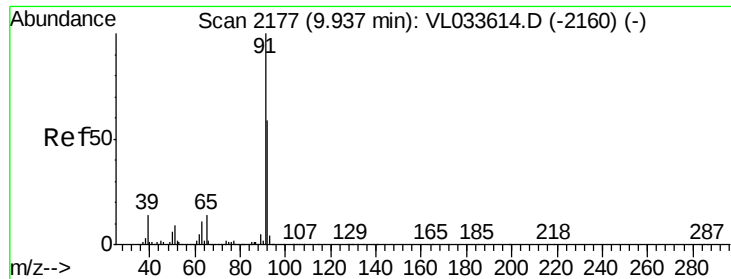
Delta R.T. 0.00 min

Lab File: VL033630.D

Acq: 2 May 2019 16:24

Tgt Ion:	78	Resp:	16053
Ion Ratio	Lower	Upper	
78	100		
77	20.0	18.1	27.1
50	22.5	15.1	22.7





#53

Toluene

Concen: 3.240 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL033630.D

Acq: 2 May 2019 16:24

Instrument :

MSVOA_L

ClientSampled :

A-3

Tot Ion: 91 Resp: 741718

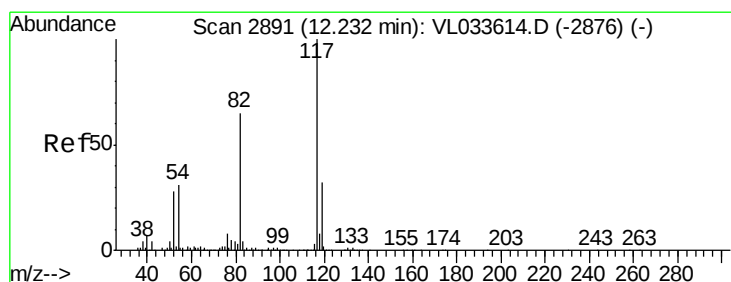
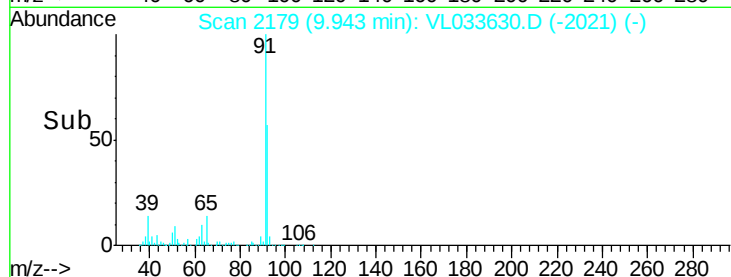
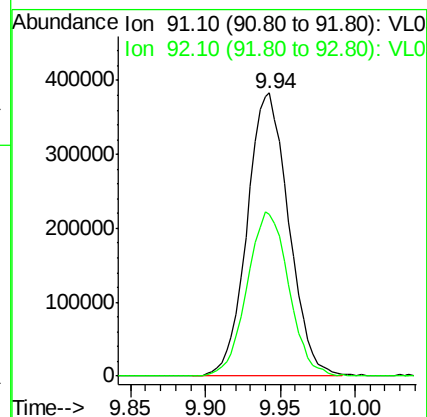
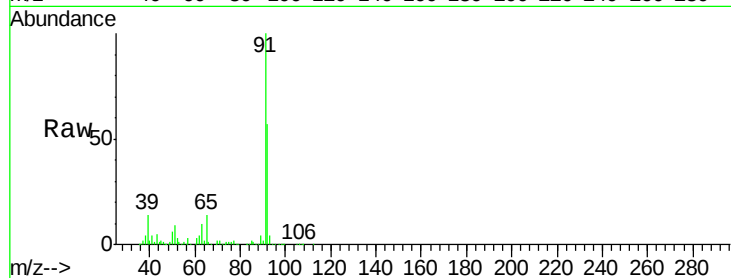
Ion Ratio Lower Upper

91 100

92 58.4 47.8 71.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. 0.00 min

Lab File: VL033630.D

Acq: 2 May 2019 16:24

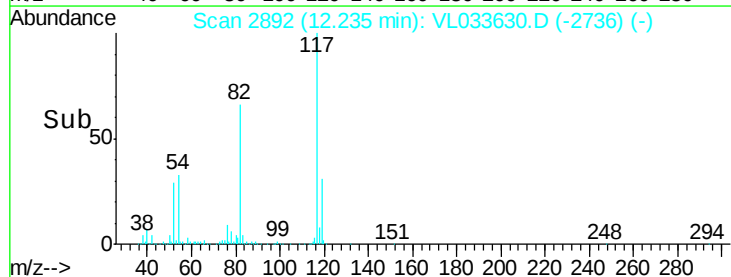
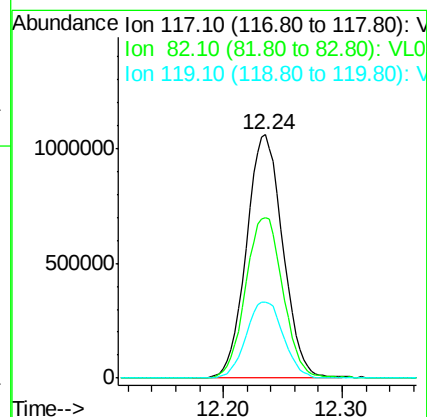
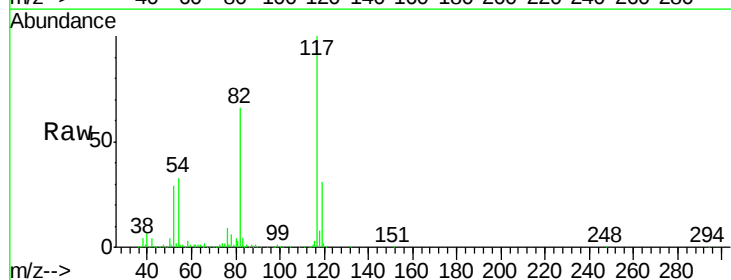
Tgt Ion: 117 Resp: 2247066

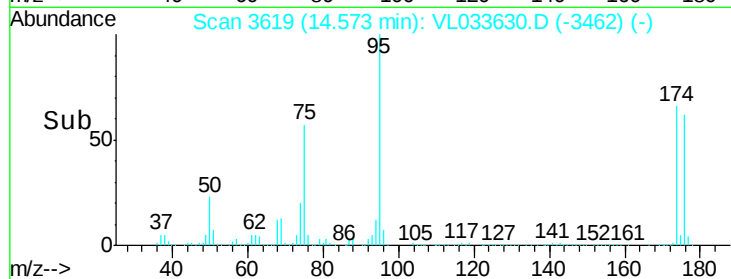
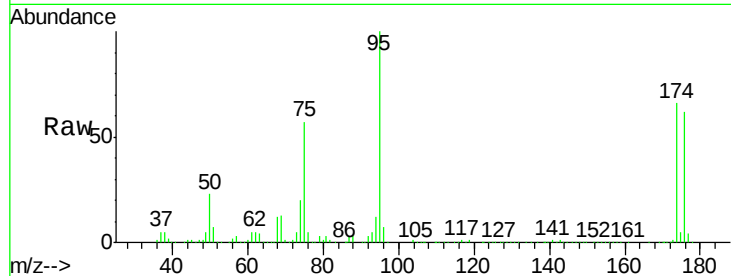
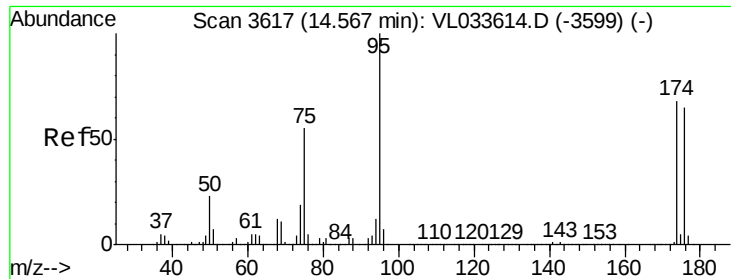
Ion Ratio Lower Upper

117 100

82 68.1 52.6 78.8

119 32.4 28.3 42.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.228 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. 0.01 min

Lab File: VL033630.D

Acq: 2 May 2019 16:24

Instrument :

MSVOA_L

ClientSampleId :

A-3

Tot Ion: 95 Resp: 1749726

Ion Ratio Lower Upper

95 100

174 66.0 53.9 80.9

175 4.7 4.0 6.0

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:33 AM

