

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050720\
 Data File : VL034975.D
 Acq On : 7 May 2020 19:53
 Operator : SY/AP
 Sample : L2524-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA1

Manual Integrations
 APPROVED

MMDadoda
 5/8/2020 5:22:45 PM

Quant Time: May 08 08:53:39 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	5.67	49	1000247	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2282335	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2071062	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1756890	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	38069	0.268	ppbv	90
3) Chlorodifluoromethane	2.95	51	33697m	0.295	ppbv	
4) Chloromethane	3.11	50	31733	0.485	ppbv	94
9) Propene	2.99	41	33058	0.667	ppbv #	78
11) Trichlorofluoromethane	3.92	101	34883	0.238	ppbv	93
13) Ethanol	3.59	45	1562874	95.576	ppbv	100
15) Acetone	3.82	43	1745788	13.202	ppbv	100
19) Isopropyl Alcohol	3.96	45	8889057	100.798	ppbv #	98
20) Methylene Chloride	4.33	84	112636	2.573	ppbv	88
26) Hexane	5.69	57	318010	3.302	ppbv #	46
29) Chloroform	5.75	83	15524m	0.099	ppbv	
34) 2-Butanone	5.24	43	462102	3.258	ppbv	98
35) Carbon Tetrachloride	7.03	117	7985m	0.055	ppbv	
36) Benzene	6.90	78	18069	0.096	ppbv #	87
41) Tetrahydrofuran	6.05	42	82608	1.106	ppbv	98
53) Toluene	9.83	91	682495	3.421	ppbv	98
59) m/p-Xylene	13.01	91	25123m	0.111	ppbv	

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

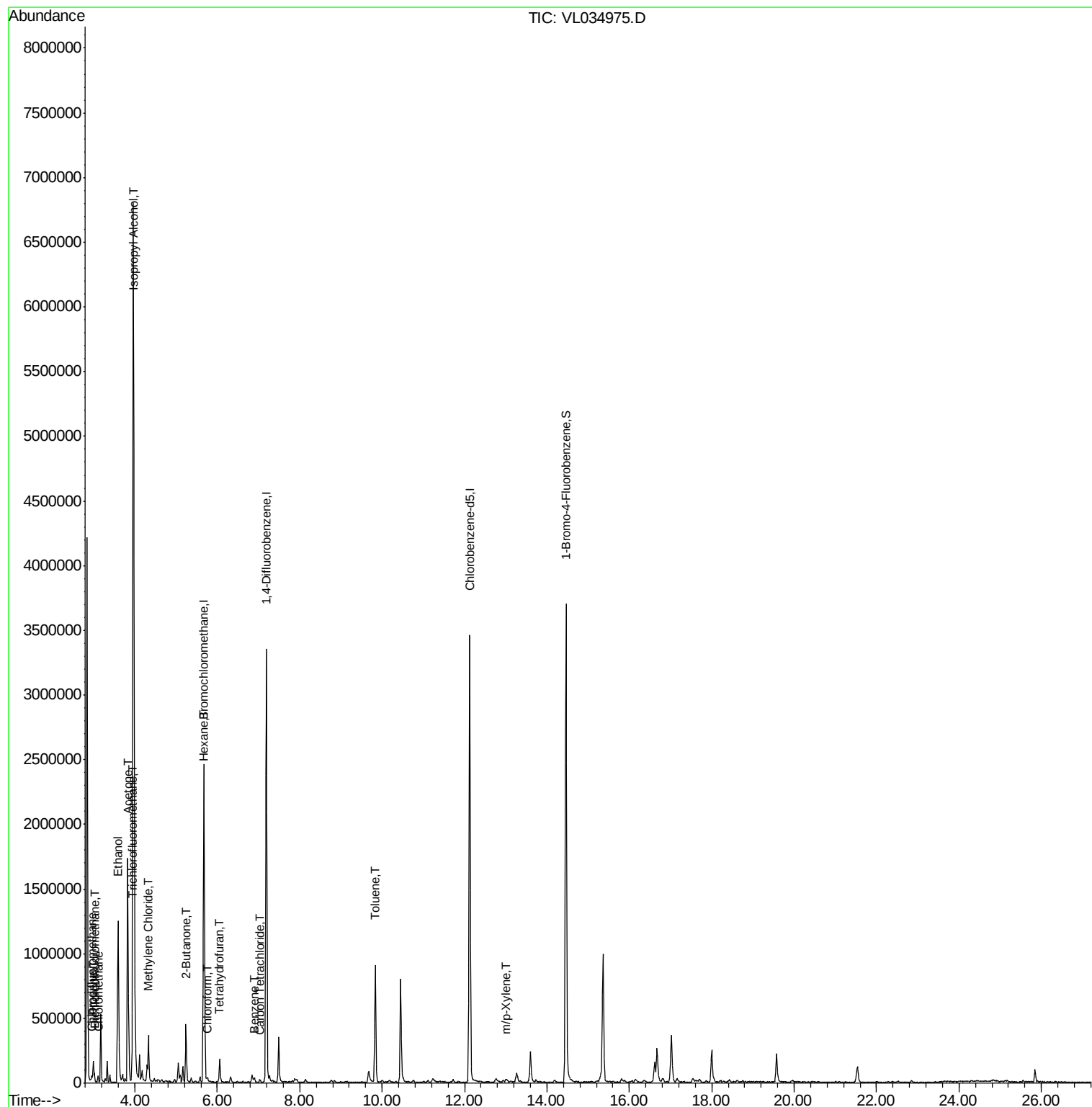
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050720\
Data File : VL034975.D
Acq On : 7 May 2020 19:53
Operator : SY/AP
Sample : L2524-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

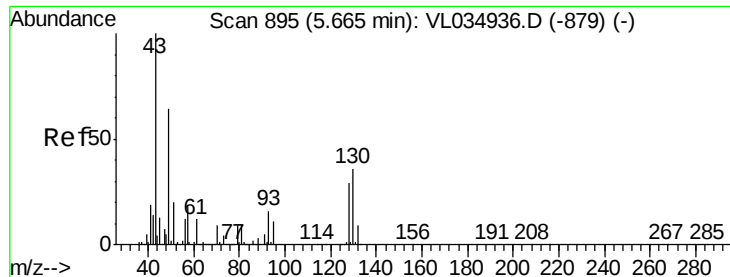
Instrument :
MSVOA_L
ClientSampleId :
IIA1

Manual Integrations
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5/8/2020 5:22:45 PM

Quant Time: May 08 08:53:39 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: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL034975.D

Acq: 7 May 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

IIA1

Tot Ion: 49 Resp: 1000247

Ion Ratio Lower Upper

49 100

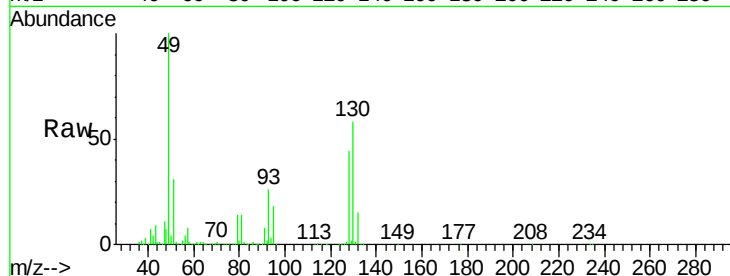
128 45.2 22.1 66.5

130 58.3 29.1 87.3

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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

800000

600000

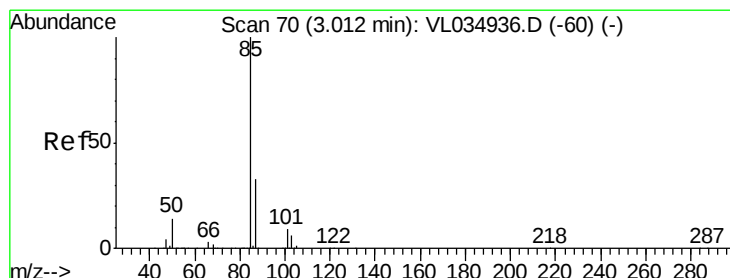
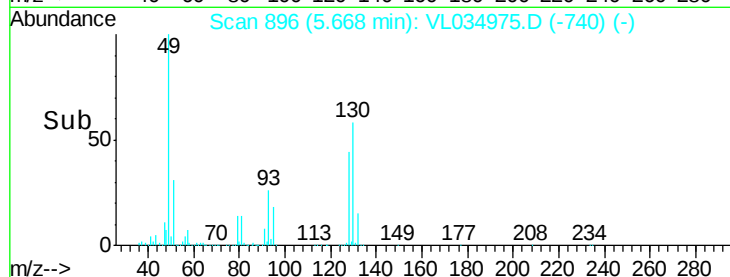
400000

200000

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.268 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL034975.D

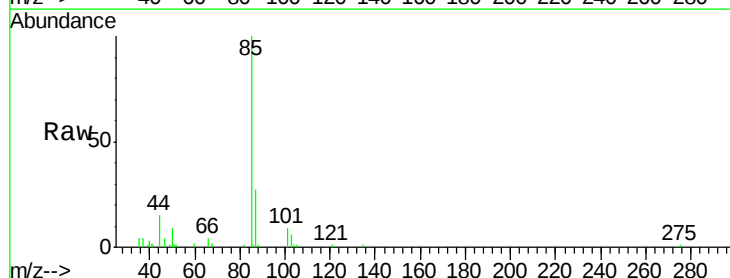
Acq: 7 May 2020 19:53

Tgt Ion: 85 Resp: 38069

Ion Ratio Lower Upper

85 100

87 27.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

40000

30000

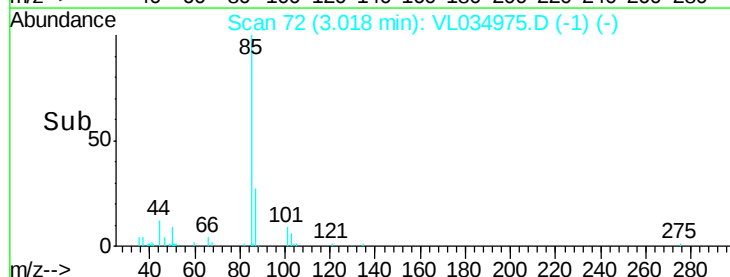
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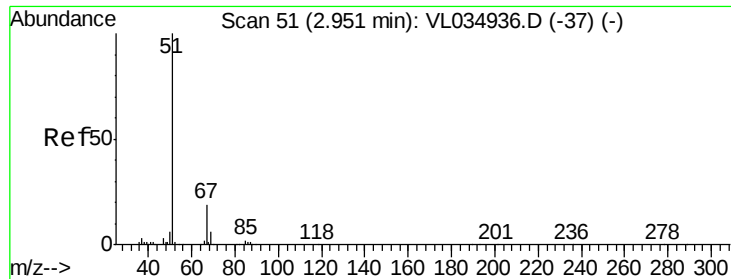
10000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.295 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.00 min

Lab File: VL034975.D

Acq: 7 May 2020 19:53

Instrument :

MSVOA_L

ClientSampled :

IIA1

Tot Ion: 51 Resp: 33697

Ion Ratio Lower Upper

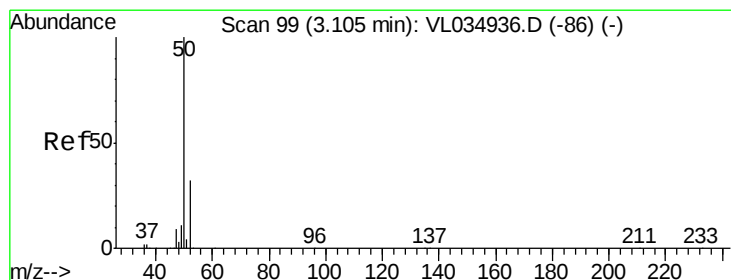
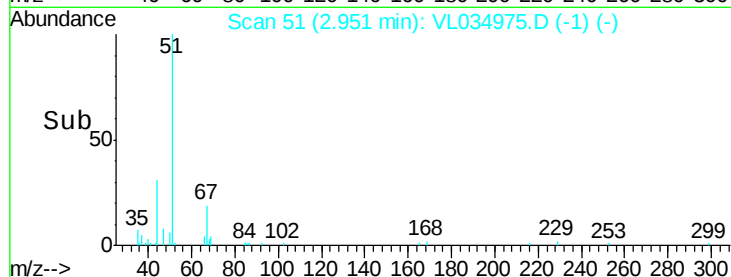
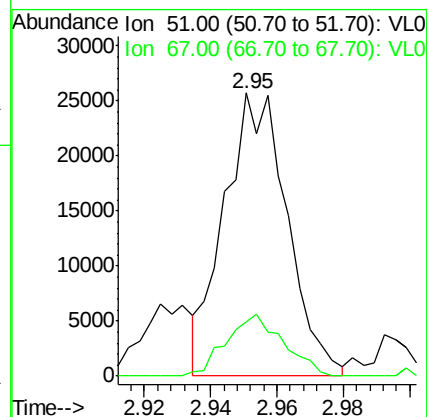
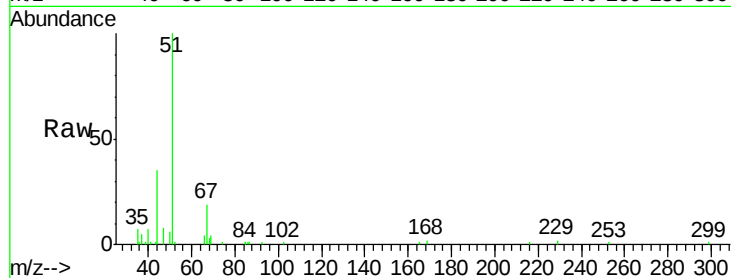
51 100

67 0.8 15.0 22.6#

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#4

Chloromethane

Concen: 0.485 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.00 min

Lab File: VL034975.D

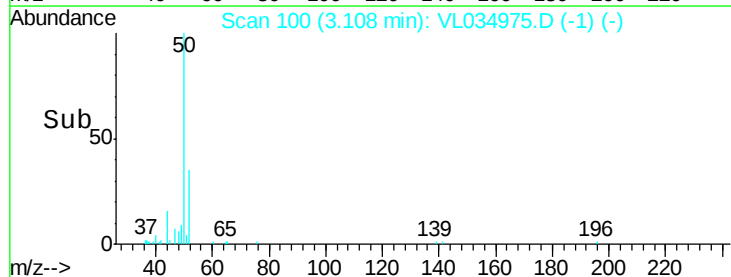
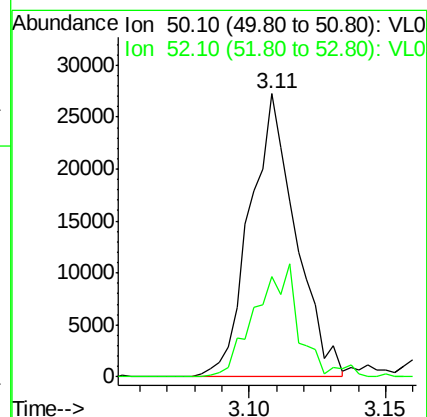
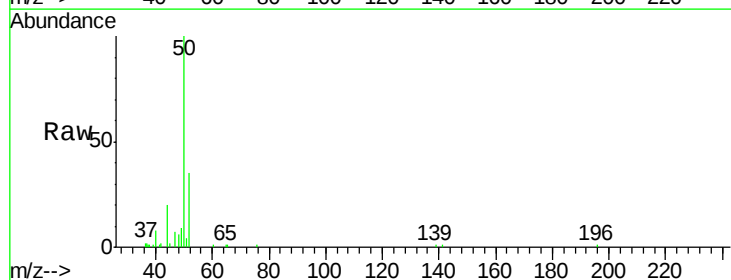
Acq: 7 May 2020 19:53

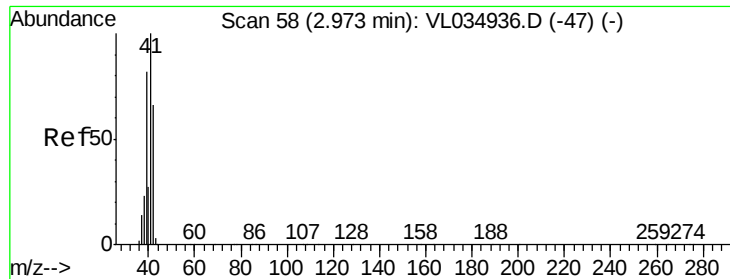
Tgt Ion: 50 Resp: 31733

Ion Ratio Lower Upper

50 100

52 35.3 25.4 38.2





#9

Propene

Concen: 0.667 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL034975.D

Acq: 7 May 2020 19:53

Instrument :

MSVOA_L

ClientSampled :

IIA1

Tot Ion: 41 Resp: 33058

Ion Ratio Lower Upper

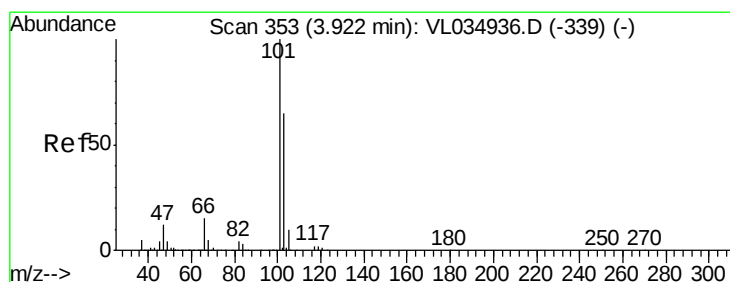
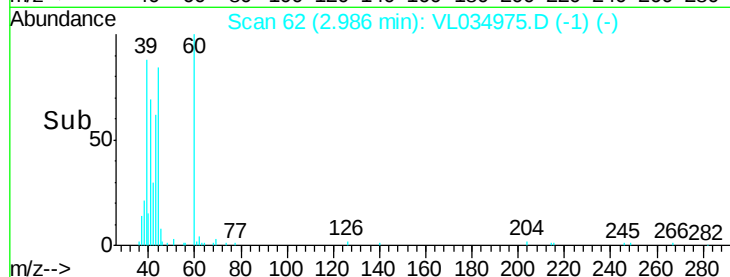
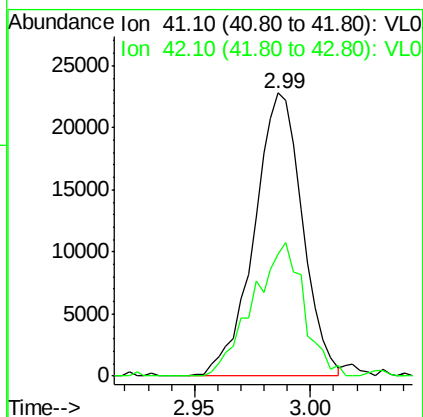
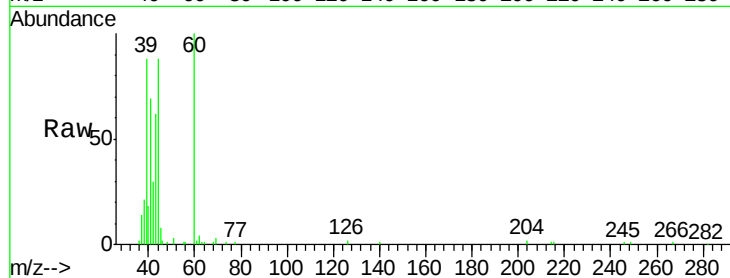
41 100

42 50.3 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.238 ppbv

RT: 3.92 min Scan# 354

Delta R.T. 0.00 min

Lab File: VL034975.D

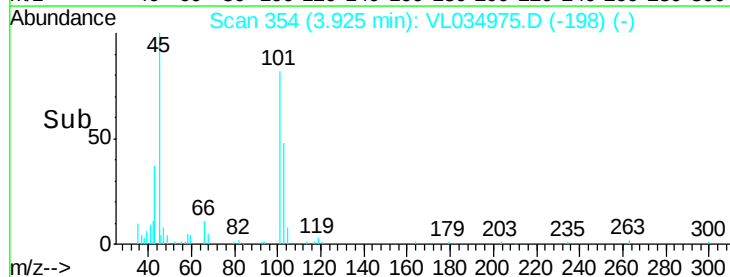
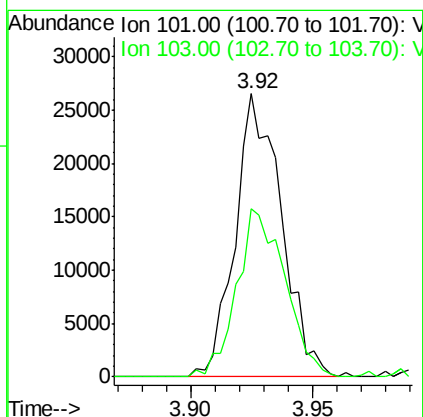
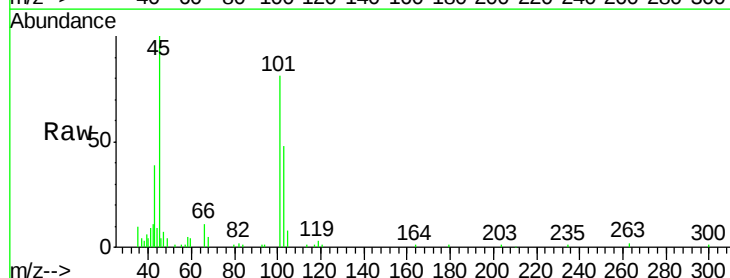
Acq: 7 May 2020 19:53

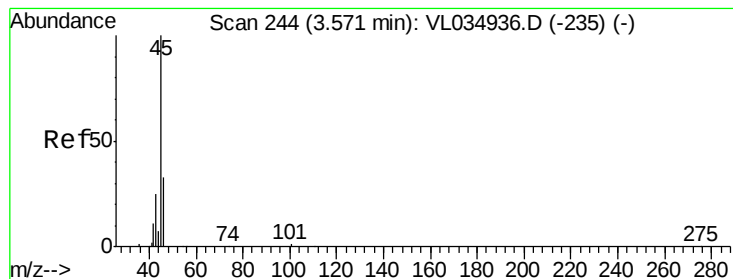
Tgt Ion: 101 Resp: 34883

Ion Ratio Lower Upper

101 100

103 59.3 51.9 77.9





#13

Ethanol

Concen: 95.576 ppbv

RT: 3.59 min Scan# 249

Delta R.T. 0.02 min

Lab File: VL034975.D

Acq: 7 May 2020 19:53

Instrument :

MSVOA_L

ClientSampleId :

IIA1

Tot Ion: 45 Resp: 1562874

Ion Ratio Lower Upper

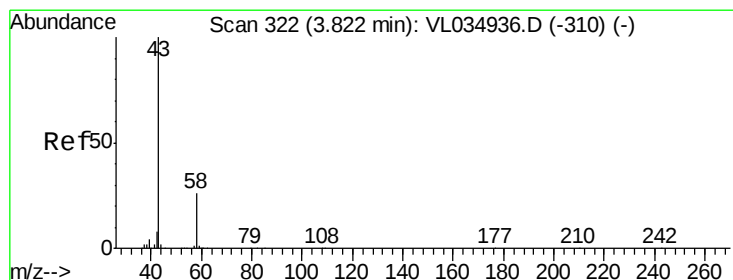
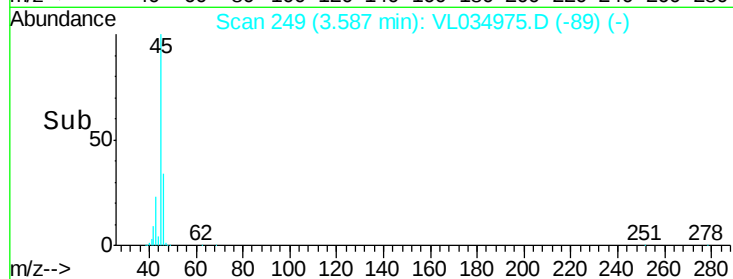
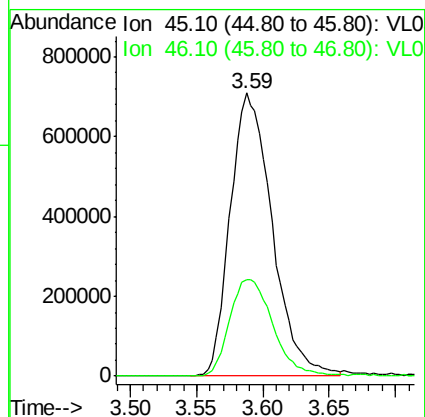
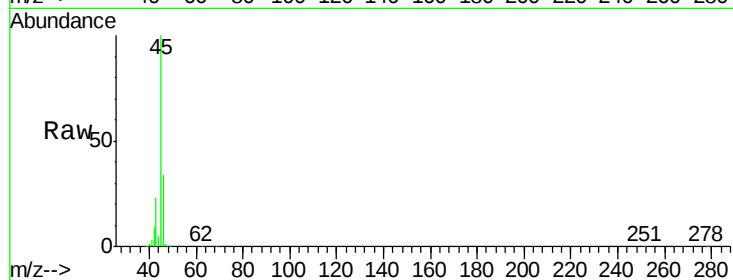
45 100

46 35.6 14.3 57.3

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#15

Acetone

Concen: 13.202 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.00 min

Lab File: VL034975.D

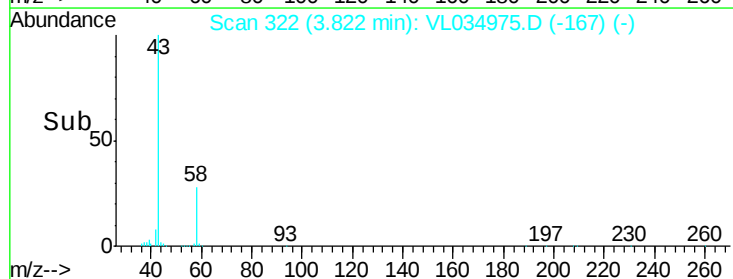
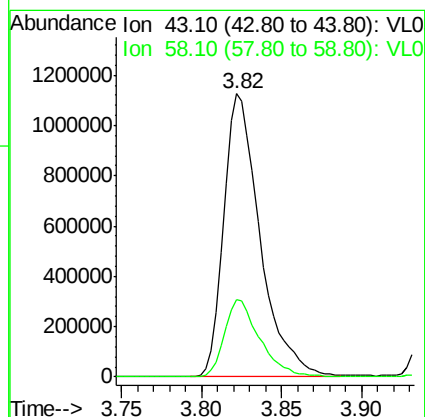
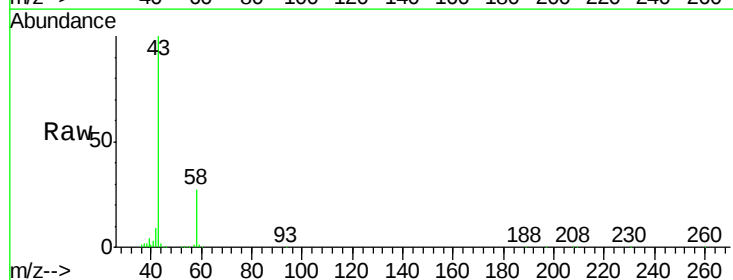
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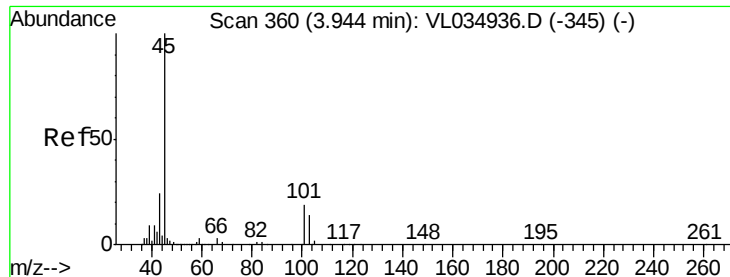
Tgt Ion: 43 Resp: 1745788

Ion Ratio Lower Upper

43 100

58 27.0 21.7 32.5





#19

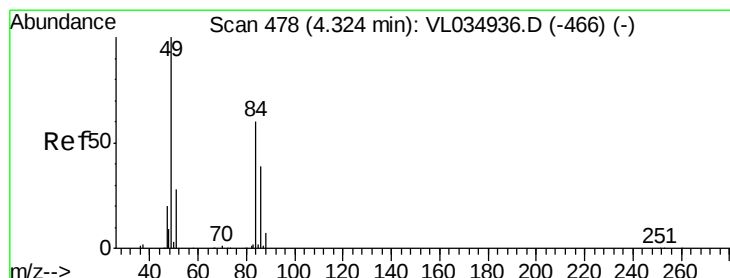
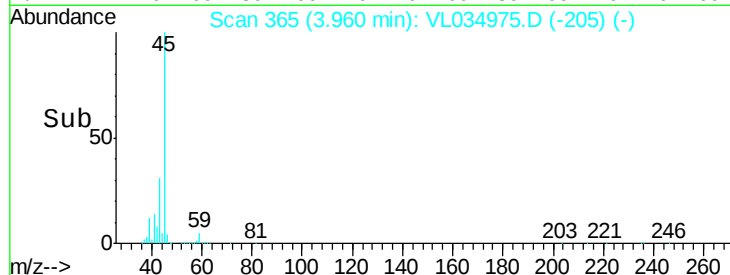
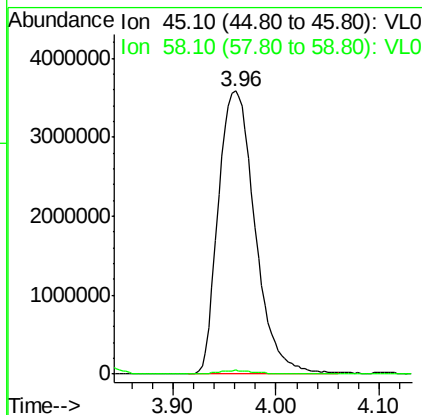
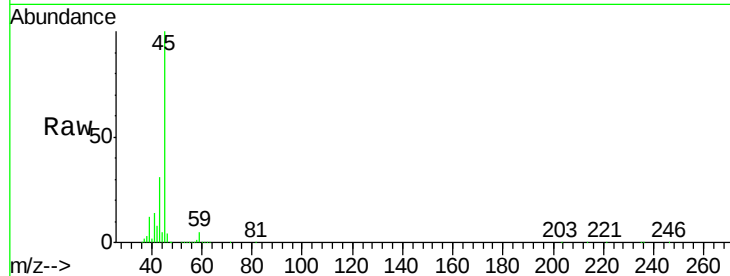
Isopropyl Alcohol
 Concen: 100.798 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.02 min
 Lab File: VL034975.D
 Acq: 7 May 2020 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA1

Tot Ion: 45 Resp: 8889057
 Ion Ratio Lower Upper
 45 100
 58 1.4 1.7 2.5#

Manual Integrations
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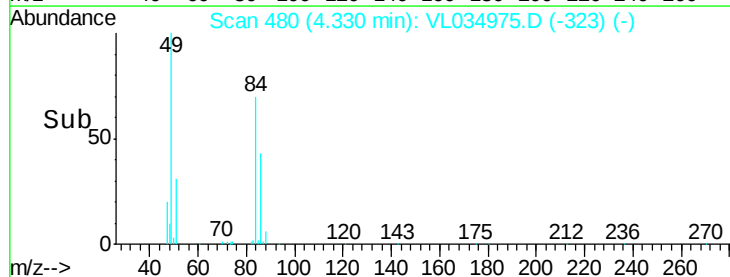
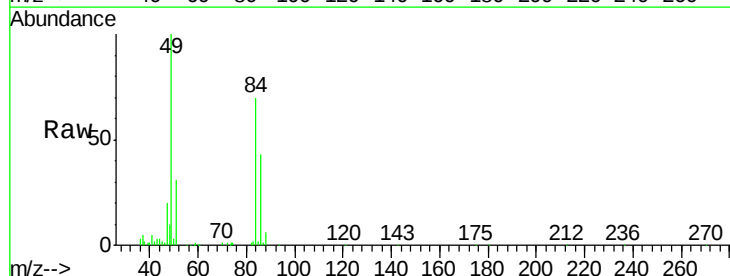
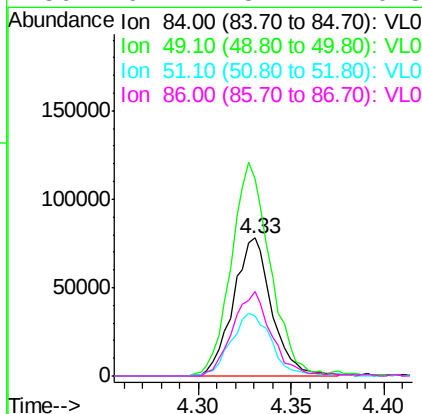
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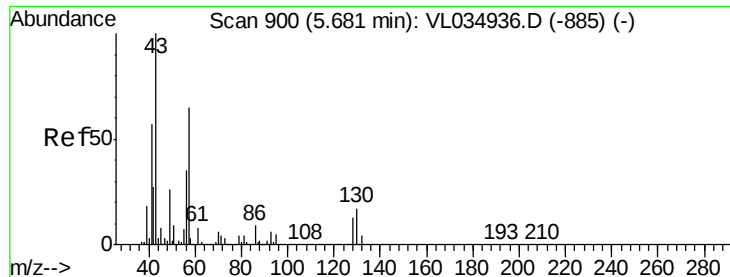


#20

Methylene Chloride
 Concen: 2.573 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. 0.01 min
 Lab File: VL034975.D
 Acq: 7 May 2020 19:53

Tgt Ion: 84 Resp: 112636
 Ion Ratio Lower Upper
 84 100
 49 143.2 132.5 198.7
 51 43.6 38.4 57.6
 86 61.7 51.2 76.8





#26

Hexane

Concen: 3.302 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL034975.D

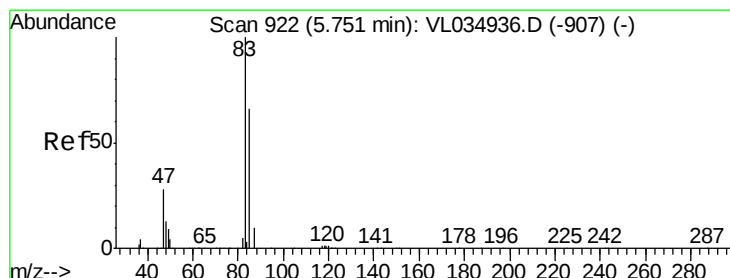
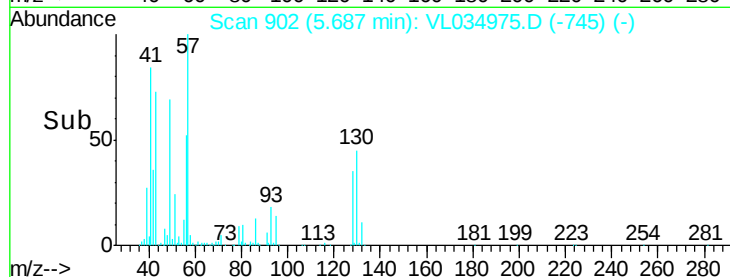
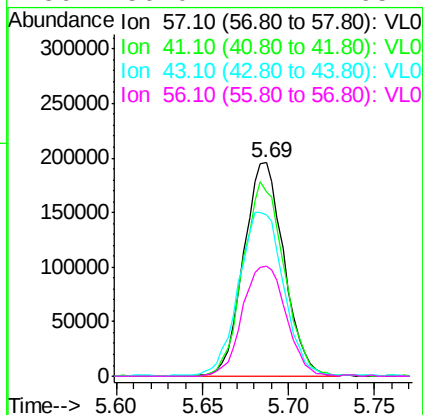
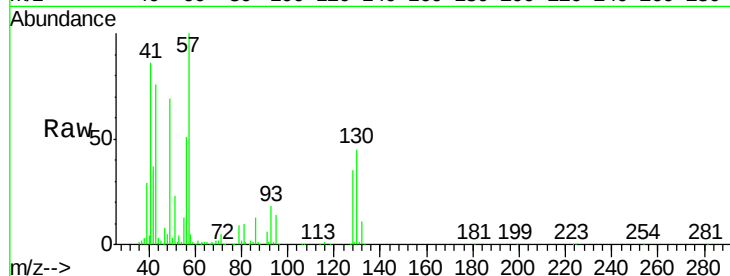
Acq: 7 May 2020 19:53

Instrument :
MSVOA_L
ClientSampleId :
IIA1

Tot Ion	57	Resp	318010
Ion	Ratio	Lower	Upper
57	100		
41	93.7	72.7	109.1
43	85.6	182.1	273.1#
56	56.0	42.2	63.2

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#29

Chloroform

Concen: 0.099 ppbv m

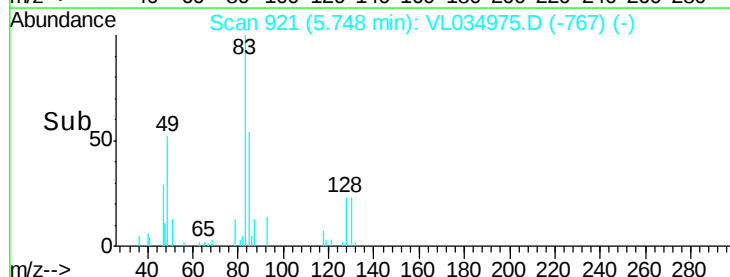
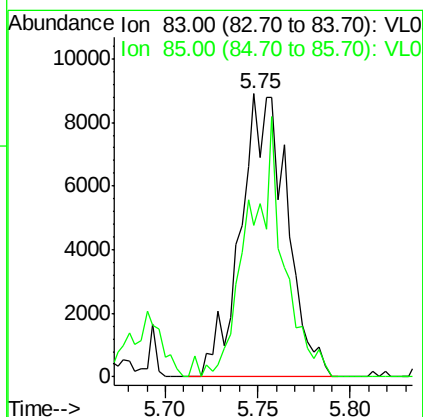
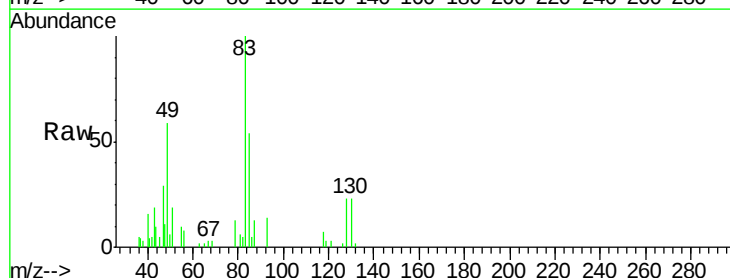
RT: 5.75 min Scan# 921

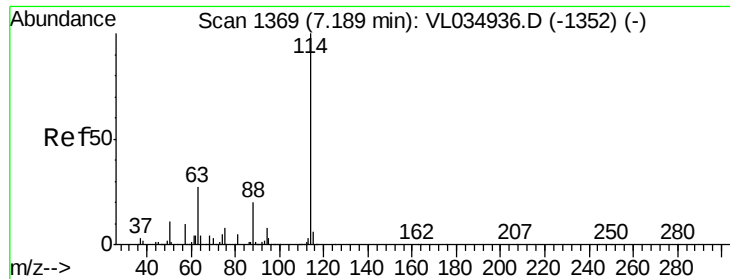
Delta R.T. -0.00 min

Lab File: VL034975.D

Acq: 7 May 2020 19:53

Tgt Ion	83	Resp	15524
Ion	Ratio	Lower	Upper
83	100		
85	53.7	53.0	79.6





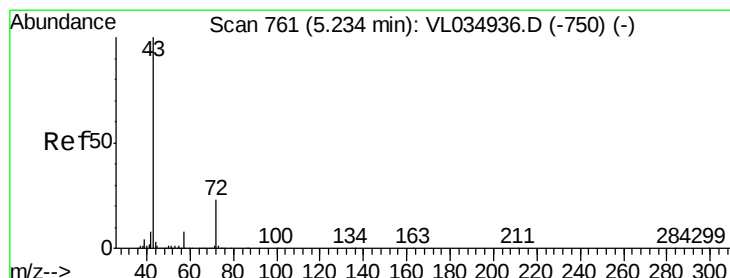
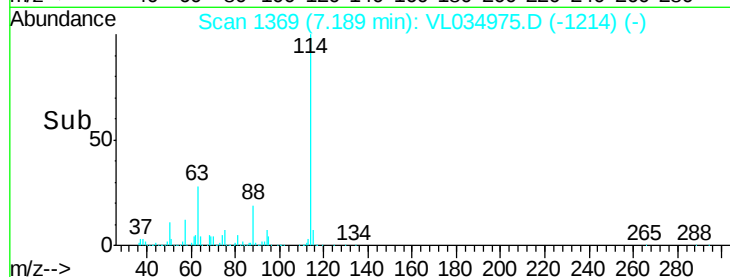
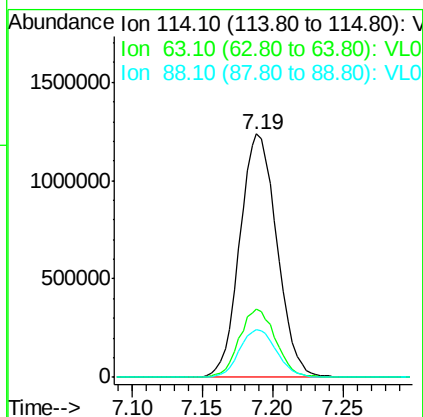
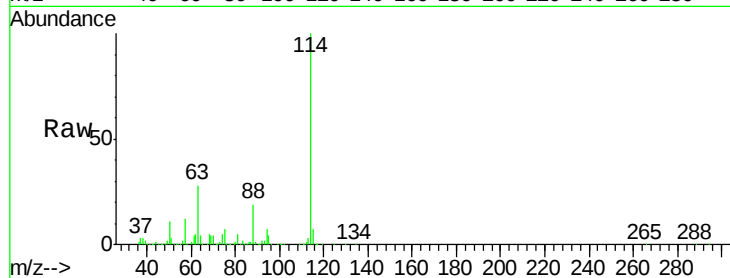
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.00 min
 Lab File: VL034975.D
 Acq: 7 May 2020 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA1

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.2	33.4
88	19.6	15.5	23.3

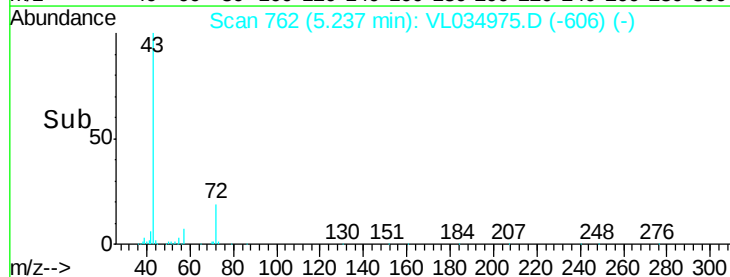
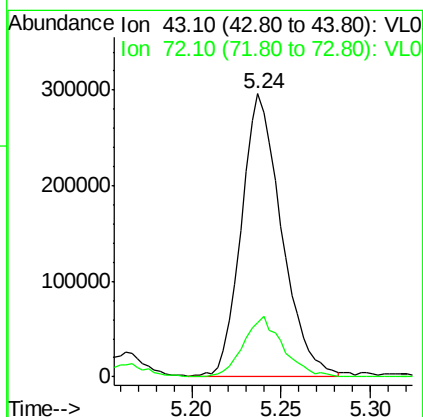
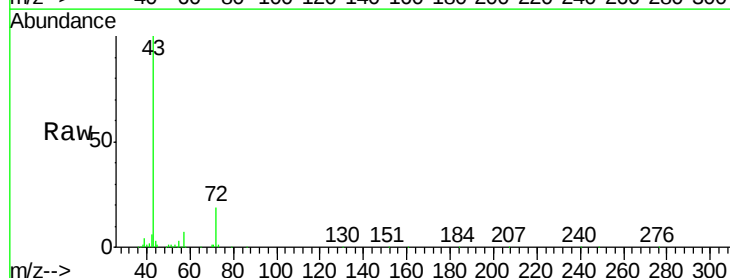
Manual Integrations
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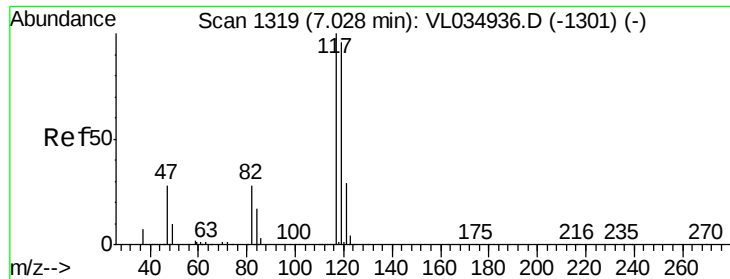
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#34
 2-Butanone
 Concen: 3.258 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VL034975.D
 Acq: 7 May 2020 19:53

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	18.0	27.0





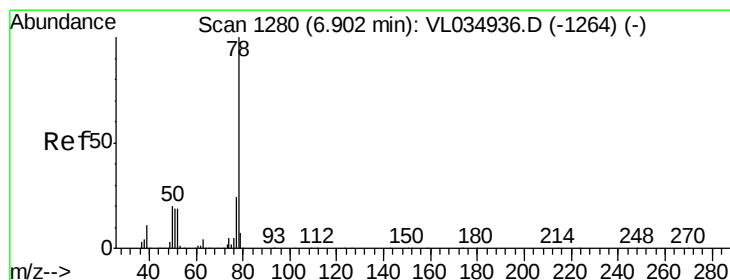
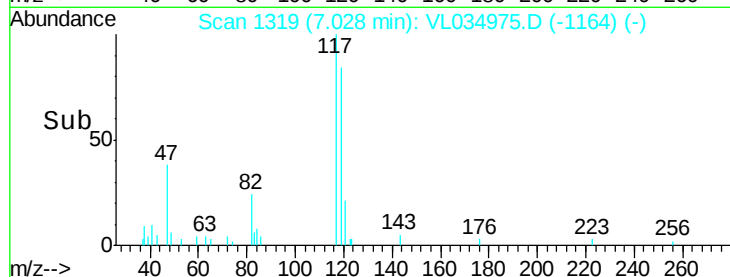
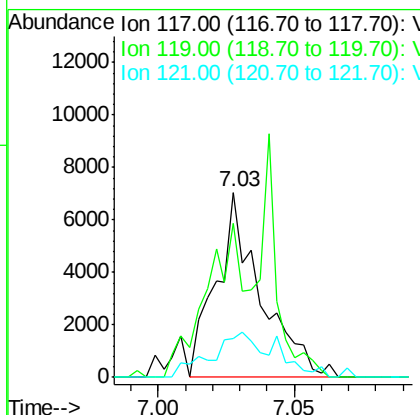
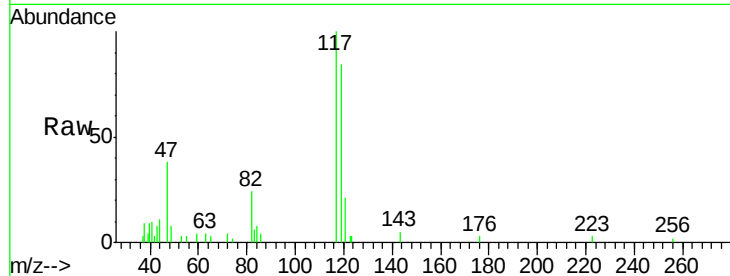
#35
Carbon Tetrachloride
Concen: 0.055 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. -0.00 min
Lab File: VL034975.D
Acq: 7 May 2020 19:53

Instrument :
MSVOA_L
ClientSampleId :
IIA1

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.5	77.0	115.6
121	21.3	23.0	34.6#

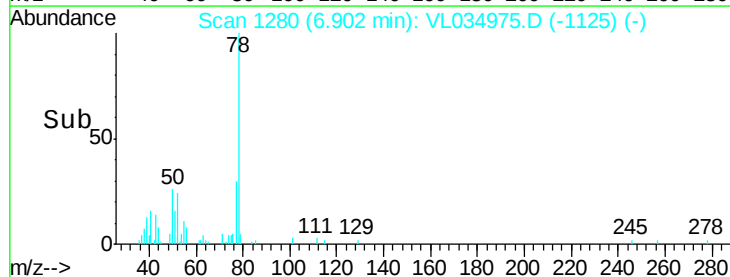
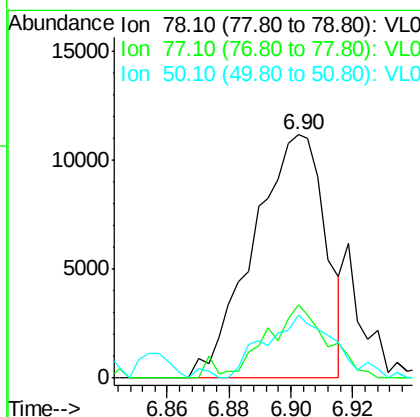
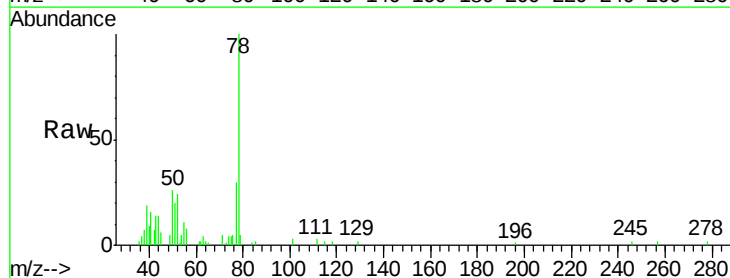
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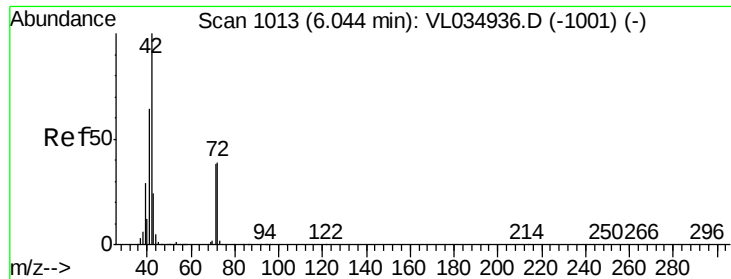
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#36
Benzene
Concen: 0.096 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. -0.00 min
Lab File: VL034975.D
Acq: 7 May 2020 19:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	30.3	19.0	28.6#
50	25.9	15.8	23.8#





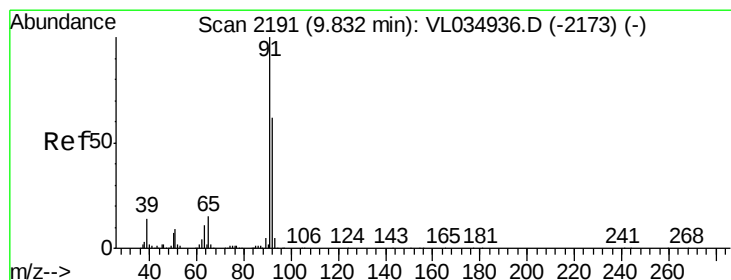
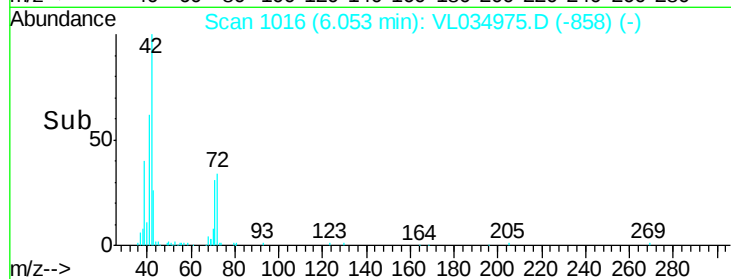
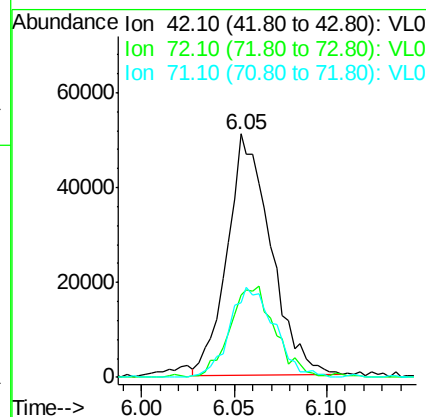
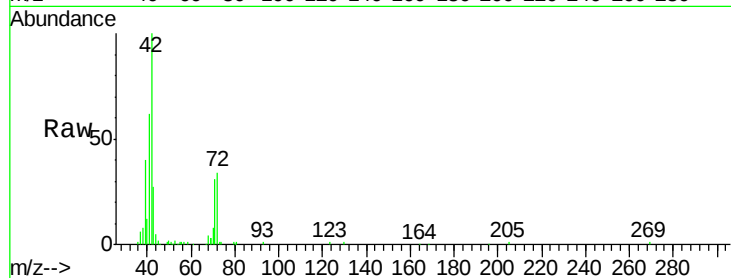
#41
Tetrahydrofuran
Concen: 1.106 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VL034975.D
Acq: 7 May 2020 19:53

Instrument :
MSVOA_L
ClientSampleId :
IIA1

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	31.4	47.0
71	39.0	29.8	44.8

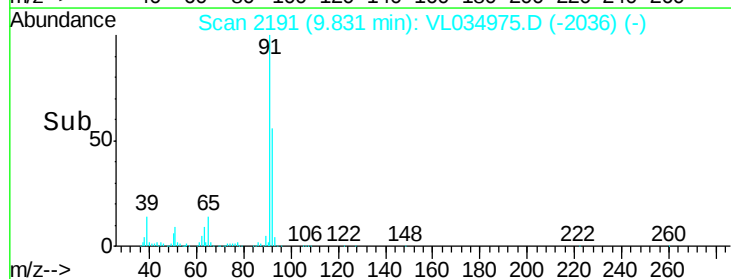
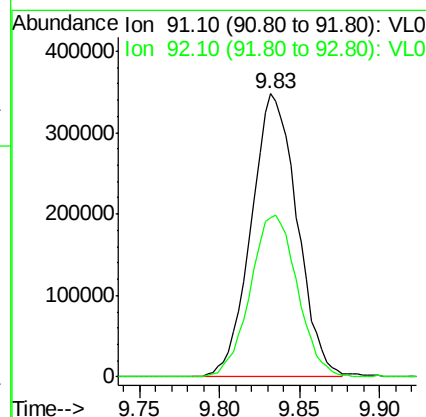
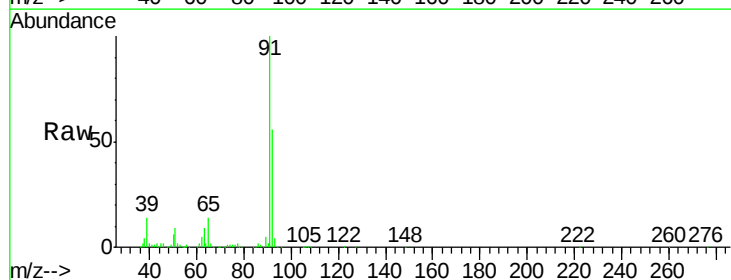
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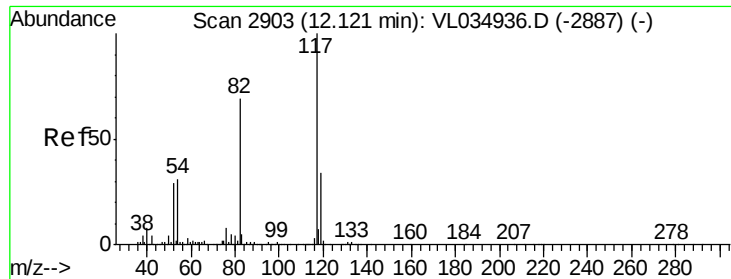
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#53
Toluene
Concen: 3.421 ppbv
RT: 9.83 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VL034975.D
Acq: 7 May 2020 19:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.0	48.6	73.0





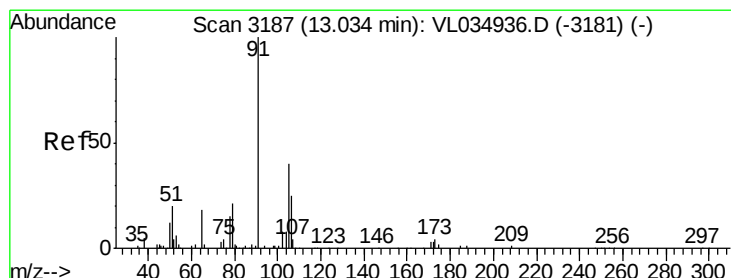
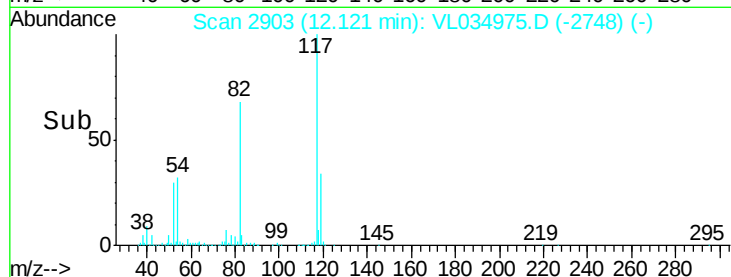
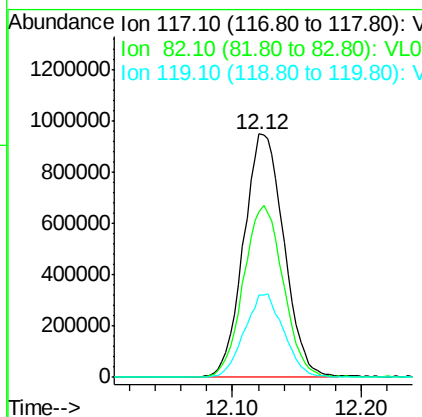
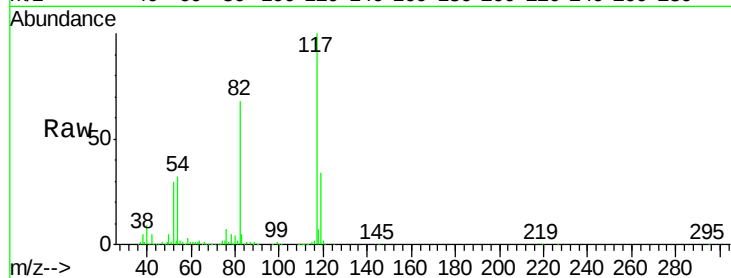
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.00 min
Lab File: VL034975.D
Acq: 7 May 2020 19:53

Instrument :
MSVOA_L
ClientSampleId :
IIA1

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.4	53.1	79.7
119	33.5	26.7	40.1

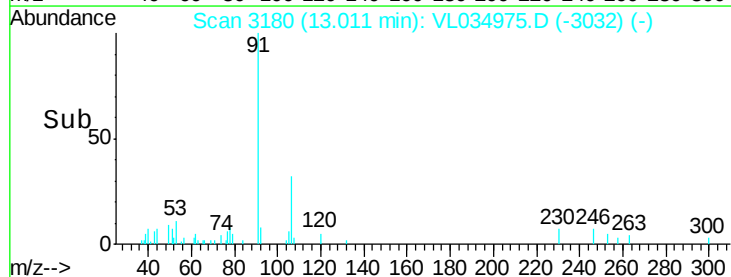
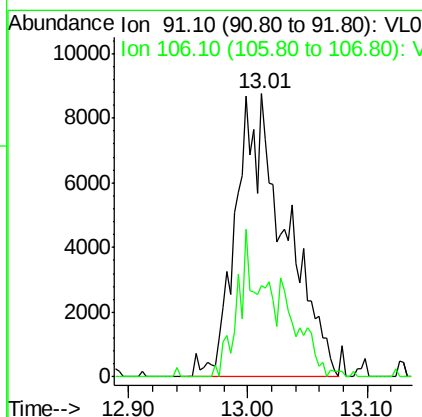
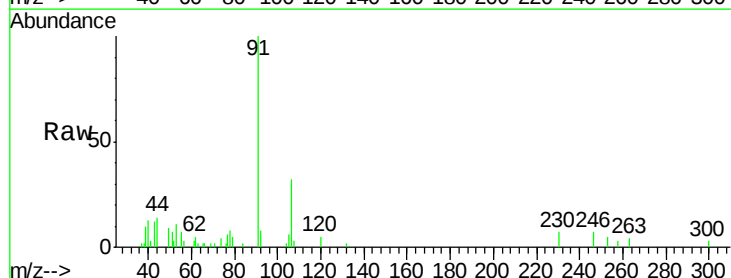
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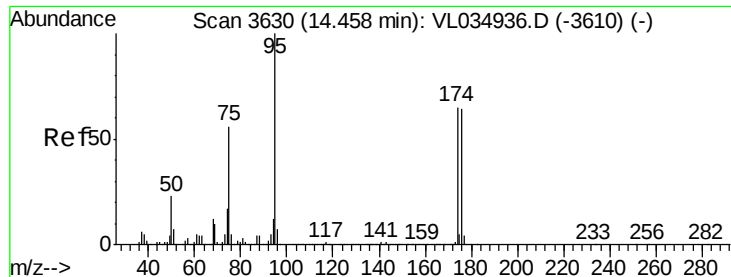
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#59
m/p-Xylene
Concen: 0.111 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. -0.02 min
Lab File: VL034975.D
Acq: 7 May 2020 19:53

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	66.0	99.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.480 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VL034975.D
 Acq: 7 May 2020 19:53

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA1

Tot Ion: 95 Resp: 1756890
 Ion Ratio Lower Upper
 95 100
 174 64.5 51.5 77.3
 175 4.8 3.8 5.8

Manual Integrations
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