

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL051618\
 Data File : VL032010.D
 Acq On : 16 May 2018 21:00
 Operator : SY/AP
 Sample : J2942-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VZW2

Manual Integrations
 APPROVED

MMDadoda
 5/17/2018 3:34:16 PM

Quant Time: May 17 09:22:46 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

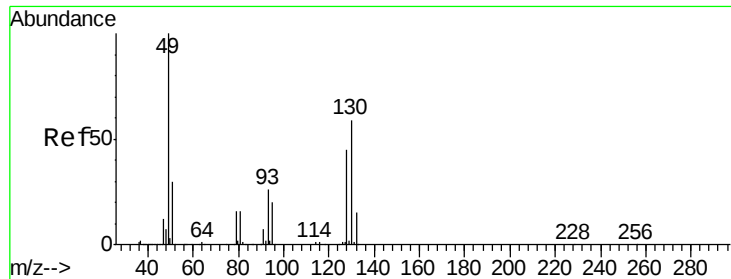
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1049375	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2081135	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.37	117	1967794	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.71	95	1602775	10.50	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	44747	0.32	ppbv	98
4) Chloromethane	3.25	50	29220	0.56	ppbv	92
9) Propene	3.12	41	19389m	0.54	ppbv	
11) Trichlorofluoromethane	4.10	101	42067	0.25	ppbv	99
15) Acetone	4.01	43	285398	1.92	ppbv	98
20) Methylene Chloride	4.51	84	152350	3.04	ppbv	95
26) Hexane	5.89	57	122291	1.02	ppbv #	44
34) 2-Butanone	5.46	43	60461	0.35	ppbv #	90
35) Carbon Tetrachloride	7.26	117	12264m	0.07	ppbv	
53) Toluene	10.08	91	29011	0.14	ppbv	96

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.87 min Scan# 1489

Delta R.T. -0.01 min

Lab File: VL032010.D

Acq: 16 May 2018 21:00

Instrument :

MSVOA_L

ClientSampleId :

VZW2

Tot Ion: 49 Resp: 1049375

Ion Ratio Lower Upper

49 100

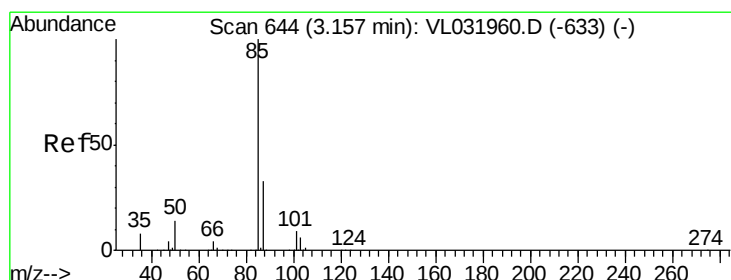
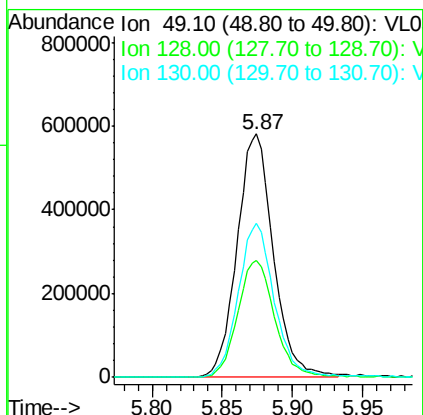
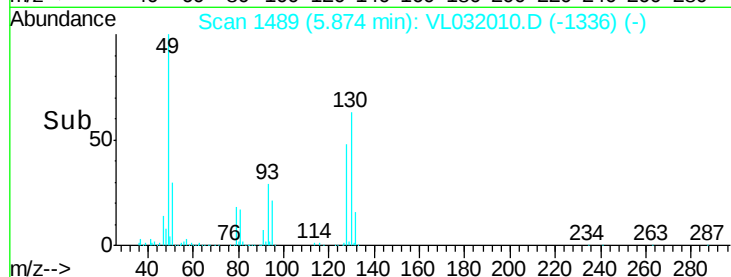
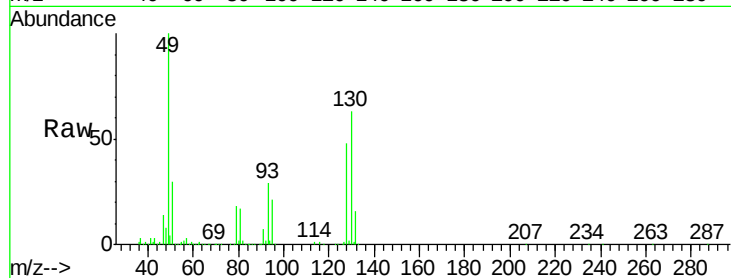
128 49.5 24.1 72.3

130 63.7 30.7 92.1

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#2

Dichlorodifluoromethane

Concen: 0.32 ppbv

RT: 3.16 min Scan# 644

Delta R.T. 0.00 min

Lab File: VL032010.D

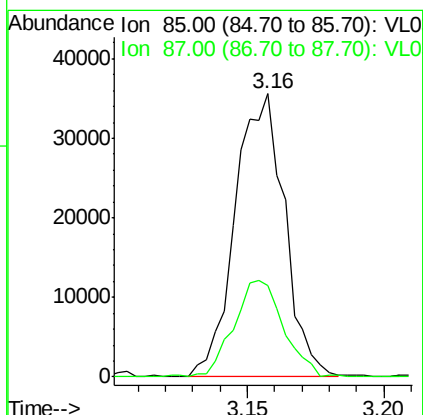
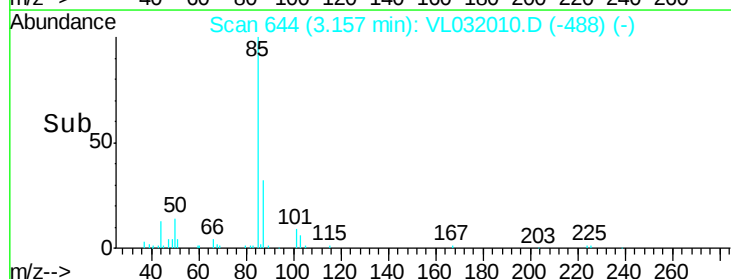
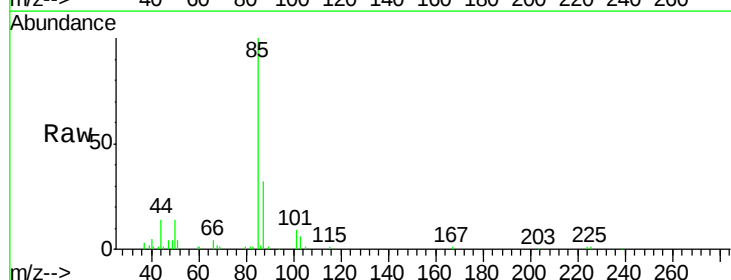
Acq: 16 May 2018 21:00

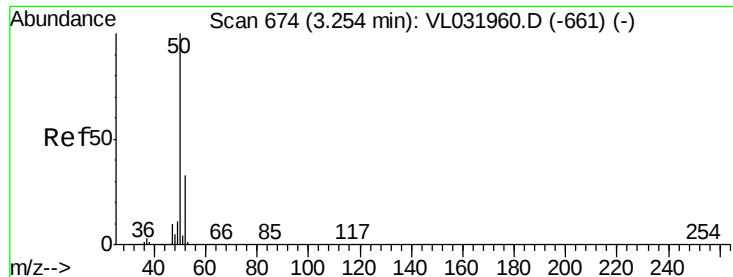
Tgt Ion: 85 Resp: 44747

Ion Ratio Lower Upper

85 100

87 32.4 26.8 40.2





#4

Chloromethane

Concen: 0.56 ppbv

RT: 3.25 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032010.D

Acq: 16 May 2018 21:00

Instrument :

MSVOA_L

ClientSampleId :

VZW2

Tot Ion: 50 Resp: 29220

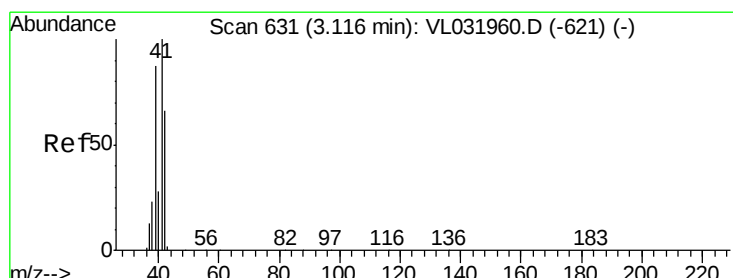
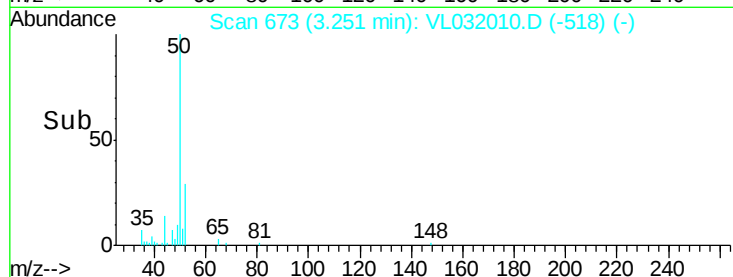
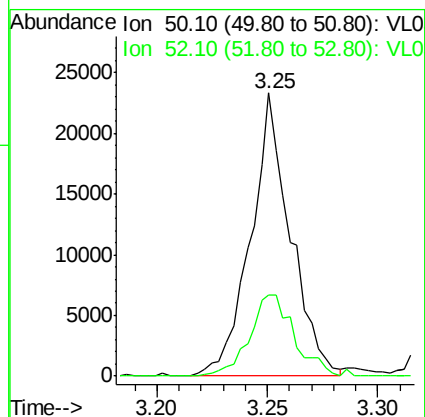
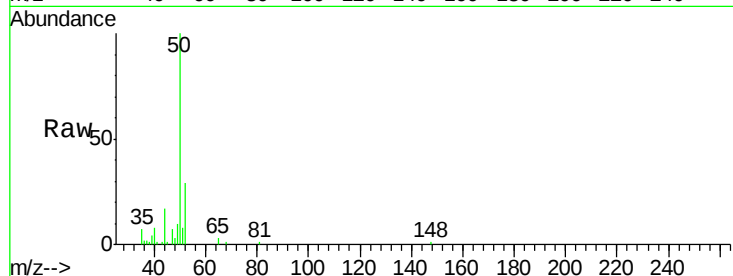
Ion Ratio Lower Upper

50 100

52 28.6 26.6 39.8

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#9

Propene

Concen: 0.54 ppbv m

RT: 3.12 min Scan# 633

Delta R.T. 0.01 min

Lab File: VL032010.D

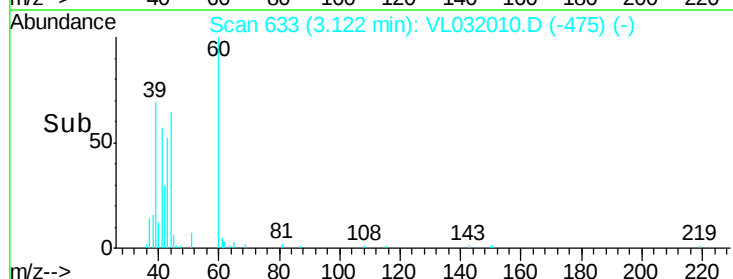
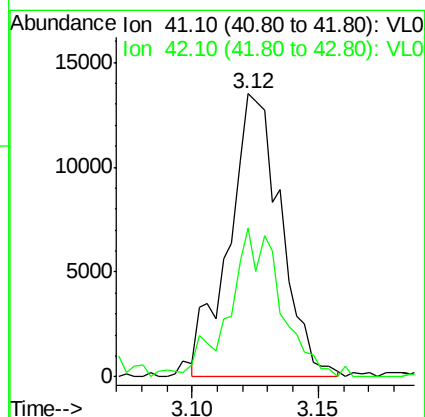
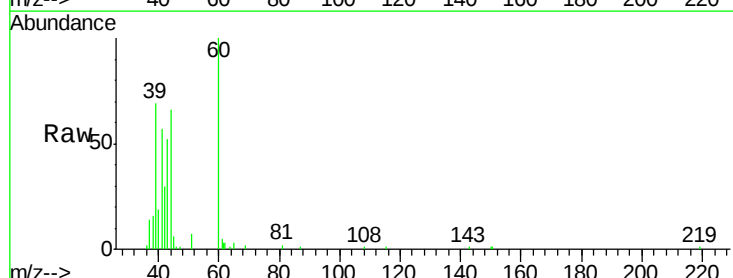
Acq: 16 May 2018 21:00

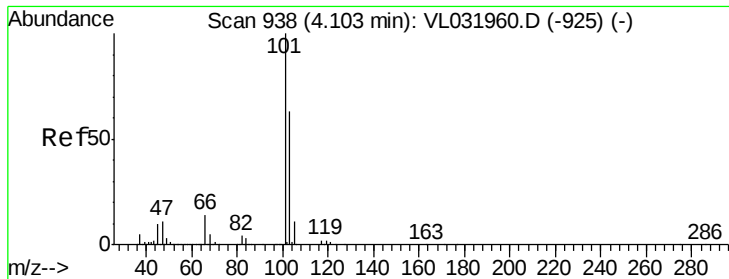
Tgt Ion: 41 Resp: 19389

Ion Ratio Lower Upper

41 100

42 53.2 53.9 80.9#





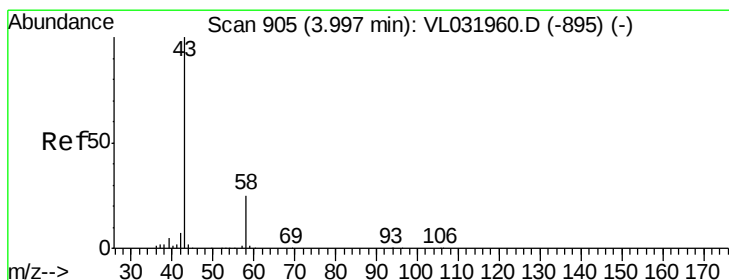
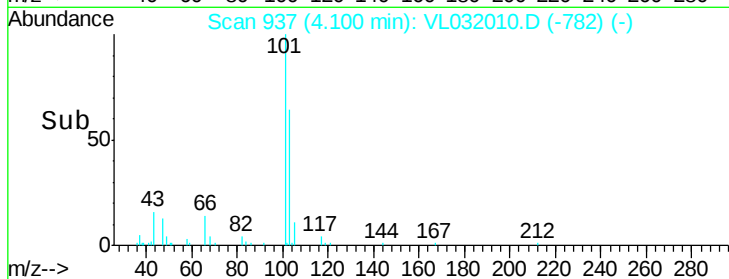
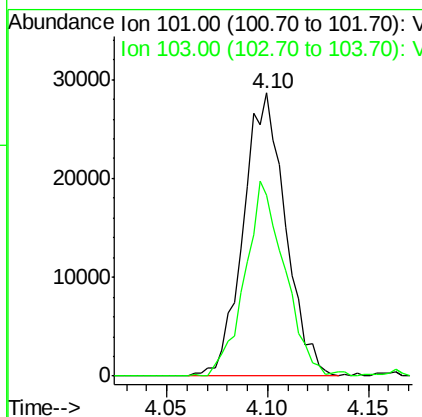
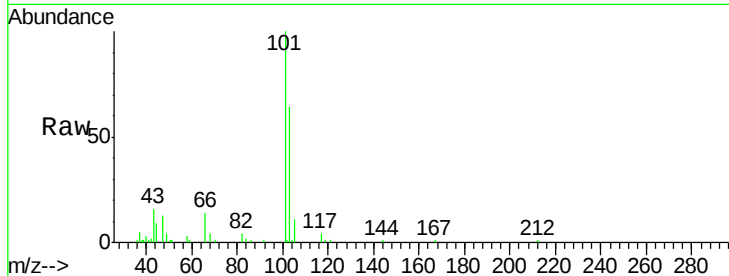
#11
 Trichlorofluoromethane
 Concen: 0.25 ppbv
 RT: 4.10 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: VL032010.D
 Acq: 16 May 2018 21:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VZW2

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.0	50.7	76.1

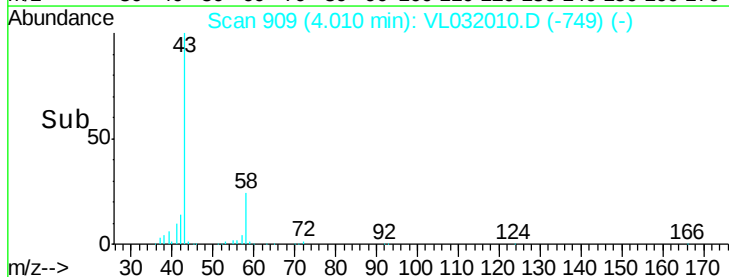
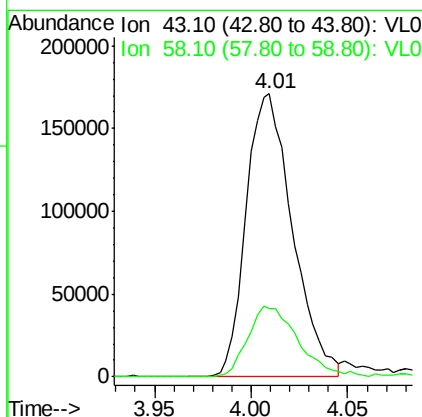
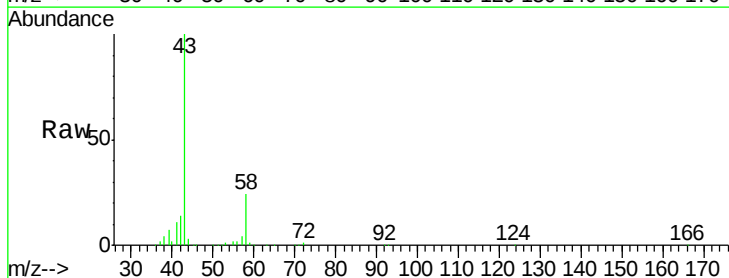
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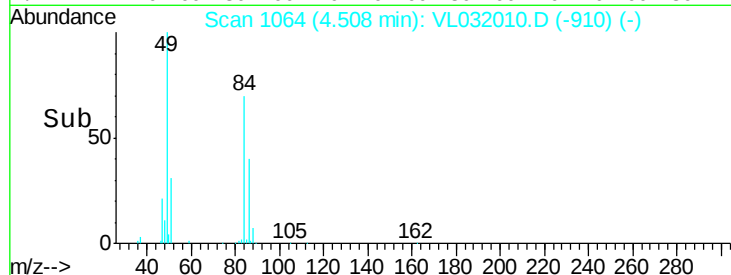
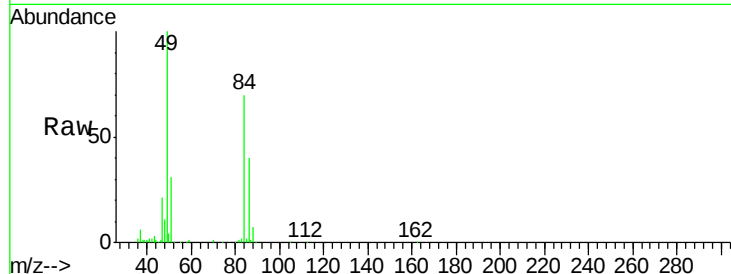
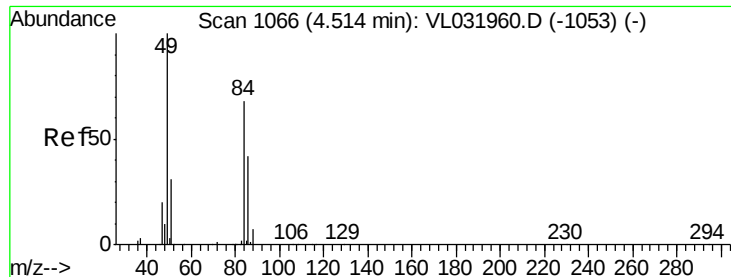
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#15
 Acetone
 Concen: 1.92 ppbv
 RT: 4.01 min Scan# 909
 Delta R.T. 0.01 min
 Lab File: VL032010.D
 Acq: 16 May 2018 21:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.2	21.1	31.7





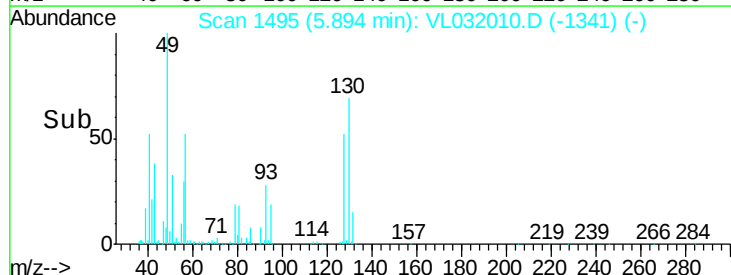
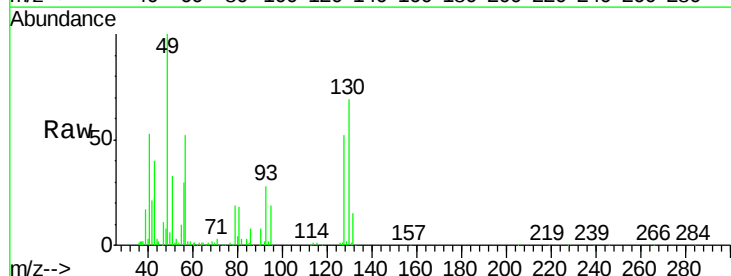
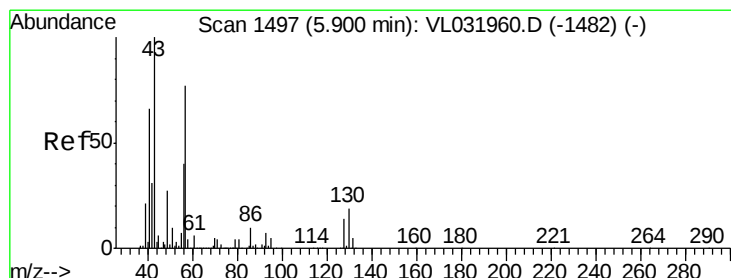
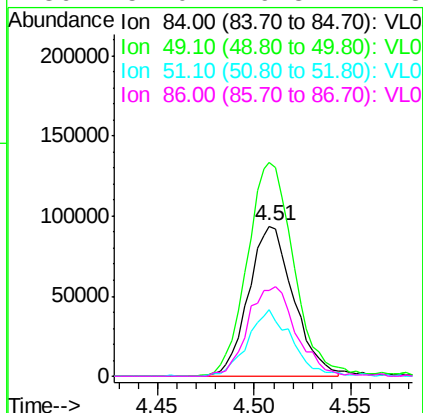
#20
Methvlene Chloride
Concen: 3.04 ppbv
RT: 4.51 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VL032010.D
Acq: 16 May 2018 21:00

Tot Ion	84	Resp	152350
Ion Ratio	Lower	Upper	
84	100		
49	142.4	118.6	178.0
51	44.6	36.6	54.8
86	57.0	49.8	74.8

Instrument :
MSVOA_L
ClientSampleId :
VZW2

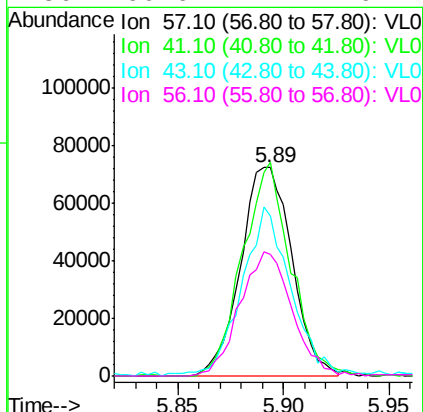
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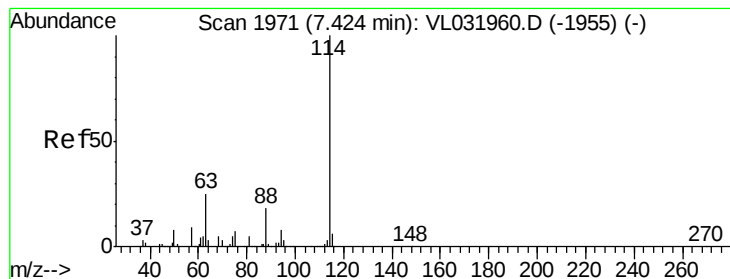
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#26
Hexane
Concen: 1.02 ppbv
RT: 5.89 min Scan# 1495
Delta R.T. -0.01 min
Lab File: VL032010.D
Acq: 16 May 2018 21:00

Tgt Ion	57	Resp	122291
Ion Ratio	Lower	Upper	
57	100		
41	97.2	71.8	107.6
43	76.6	171.5	257.3#
56	60.6	41.4	62.2





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.41 min Scan# 1967

Delta R.T. -0.01 min

Lab File: VL032010.D

Acq: 16 May 2018 21:00

Instrument :

MSVOA_L

ClientSampleId :

VZW2

Tot Ion:114 Resp: 2081135

Ion Ratio Lower Upper

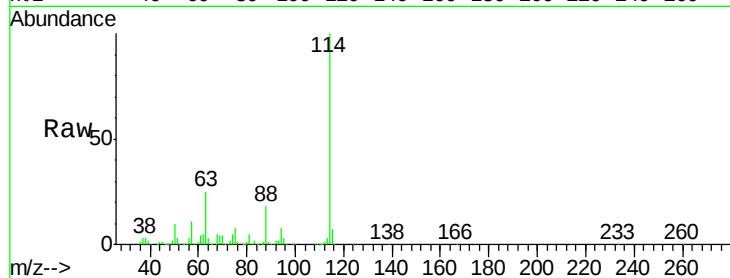
114 100

63 26.9 20.8 31.2

88 18.6 14.6 21.8

Manual Integrations
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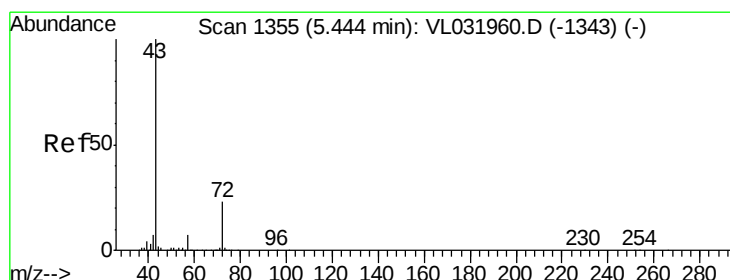
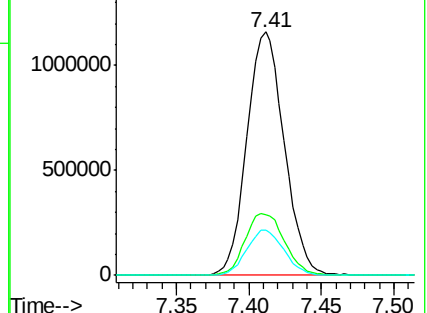
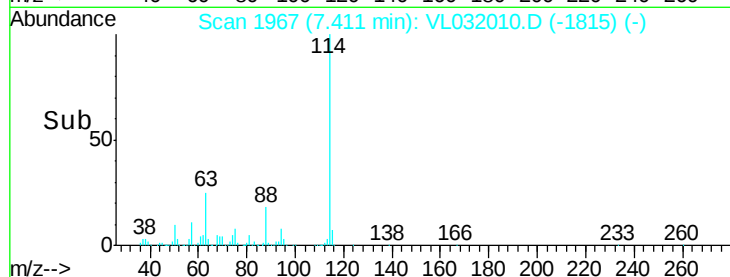
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.35 ppbv

RT: 5.46 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VL032010.D

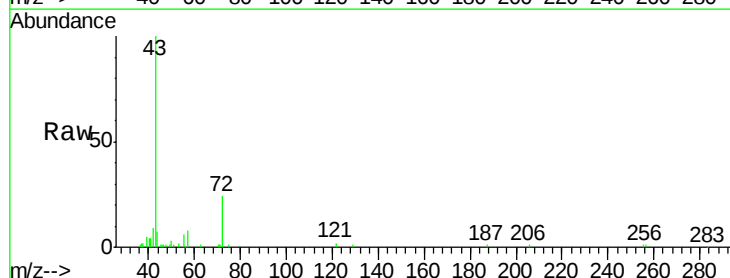
Acq: 16 May 2018 21:00

Tgt Ion: 43 Resp: 60461

Ion Ratio Lower Upper

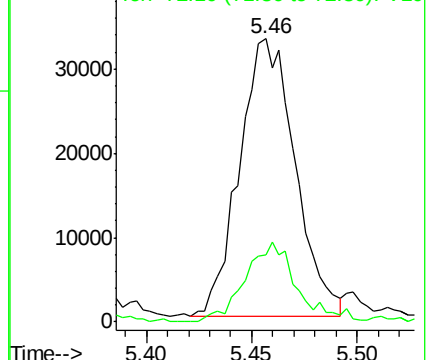
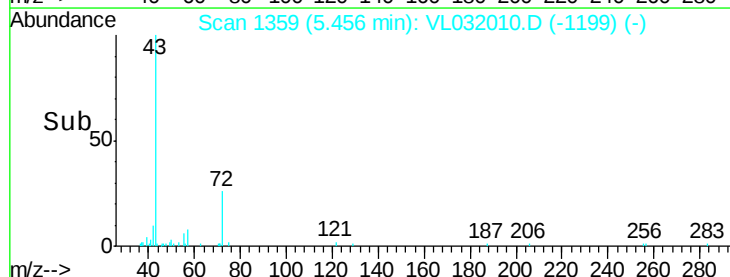
43 100

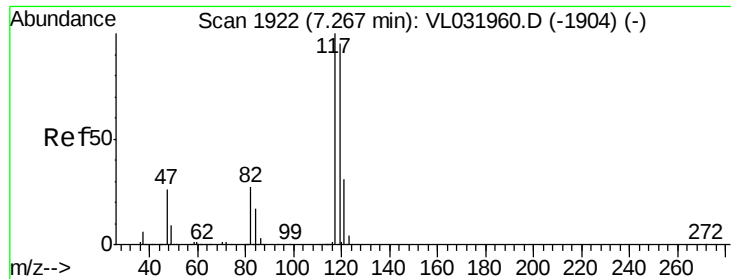
72 27.6 18.3 27.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.07 ppbv m

RT: 7.26 min Scan# 1920

Delta R.T. -0.01 min

Lab File: VL032010.D

Acq: 16 May 2018 21:00

Instrument :

MSVOA_L

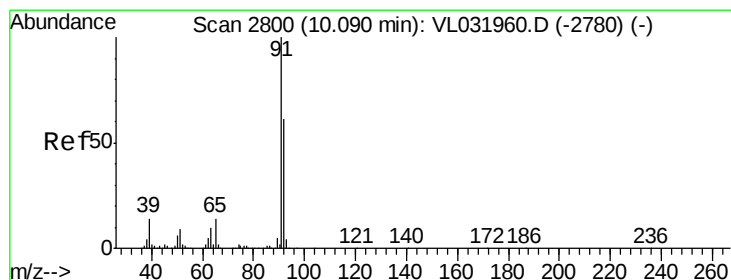
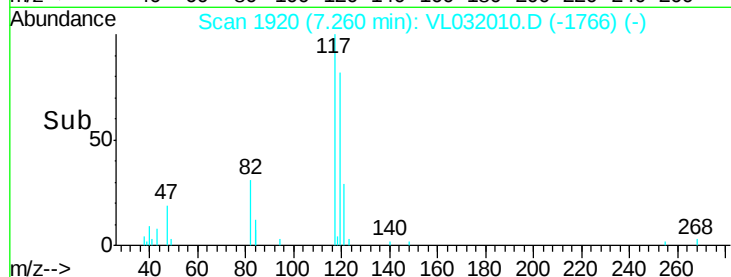
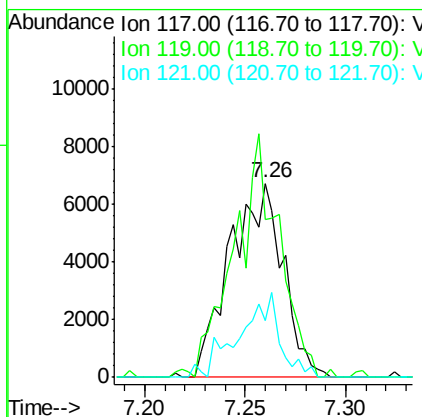
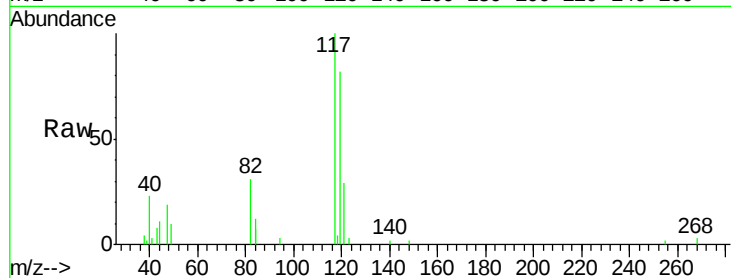
ClientSampleId :

VZW2

Tot Ion:	117	Resp:	12264
Ion	Ratio	Lower	Upper
117	100		
119	81.8	76.4	114.6
121	29.2	24.4	36.6

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#53

Toluene

Concen: 0.14 ppbv

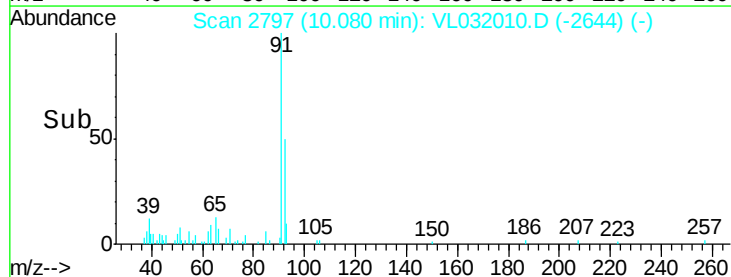
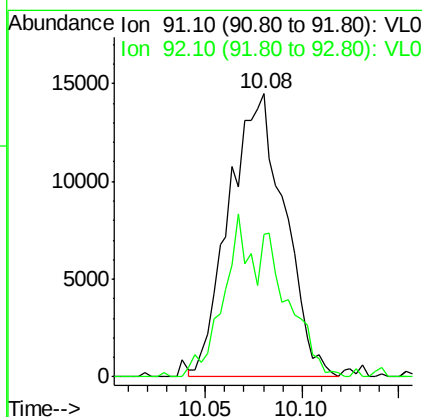
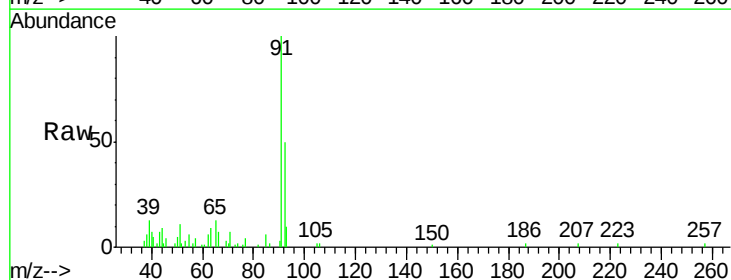
RT: 10.08 min Scan# 2797

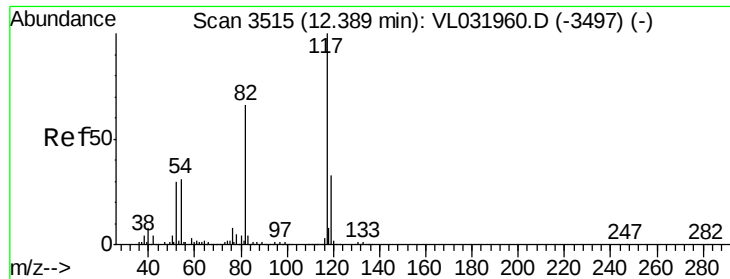
Delta R.T. -0.01 min

Lab File: VL032010.D

Acq: 16 May 2018 21:00

Tgt Ion:	91	Resp:	29011
Ion	Ratio	Lower	Upper
91	100		
92	56.3	47.4	71.2





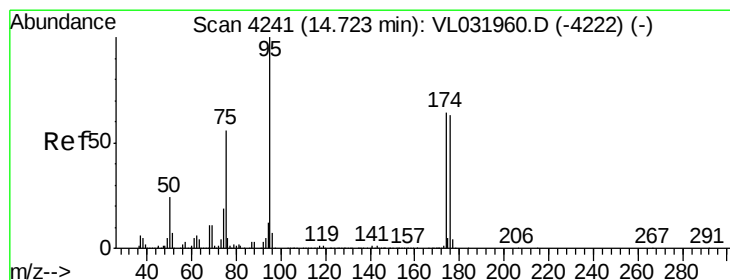
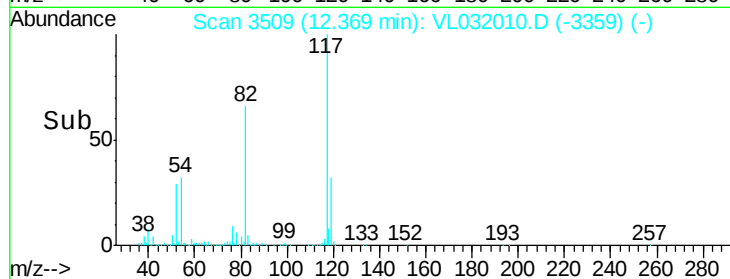
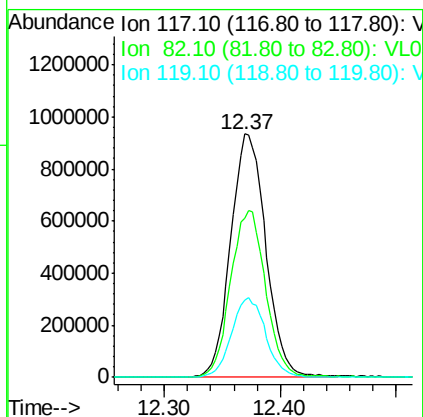
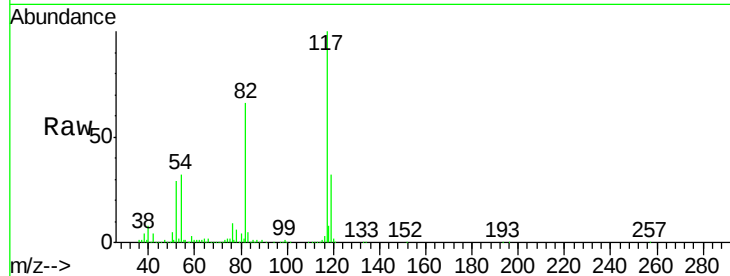
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.02 min
Lab File: VL032010.D
Acq: 16 May 2018 21:00

Instrument :
MSVOA_L
ClientSampleId :
VZW2

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.5	51.6	77.4
119	32.1	44.2	66.4#

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#68
1-Bromo-4-Fluorobenzene
Concen: 10.50 ppbv
RT: 14.71 min Scan# 4236
Delta R.T. -0.02 min
Lab File: VL032010.D
Acq: 16 May 2018 21:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.5	53.0	79.6
175	4.8	3.9	5.9

