

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032968.D
 Acq On : 11 Dec 2018 23:57
 Operator : SY/AP
 Sample : J6338-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:49 AM

Quant Time: Dec 12 17:15:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1369735	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3409015	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3186630	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2338403	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.08	85	74240	0.406	ppbv	97
3) Chlorodifluoromethane	3.02	51	69297m	0.668	ppbv	
4) Chloromethane	3.17	50	34632	0.573	ppbv	97
9) Propene	3.05	41	81722	1.992	ppbv #	66
11) Trichlorofluoromethane	4.01	101	38601	0.224	ppbv	89
13) Ethanol	3.68	45	8134569	575.985	ppbv	96
15) Acetone	3.90	43	482366	4.103	ppbv	94
20) Methylene Chloride	4.41	84	717498	12.487	ppbv	96
25) Ethyl Acetate	5.78	43	332164	1.196	ppbv #	91
26) Hexane	5.78	57	296016	2.309	ppbv #	60
29) Chloroform	5.85	83	44609	0.195	ppbv	95
34) 2-Butanone	5.34	43	286301	1.928	ppbv	99
35) Carbon Tetrachloride	7.14	117	17127m	0.064	ppbv	
36) Benzene	7.00	78	56448	0.225	ppbv #	88
41) Tetrahydrofuran	6.16	42	69163	0.749	ppbv	97
52) Tetrachloroethene	11.38	164	1399977	15.349	ppbv	98
53) Toluene	9.95	91	318626	1.198	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	62540	0.163	ppbv #	70

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

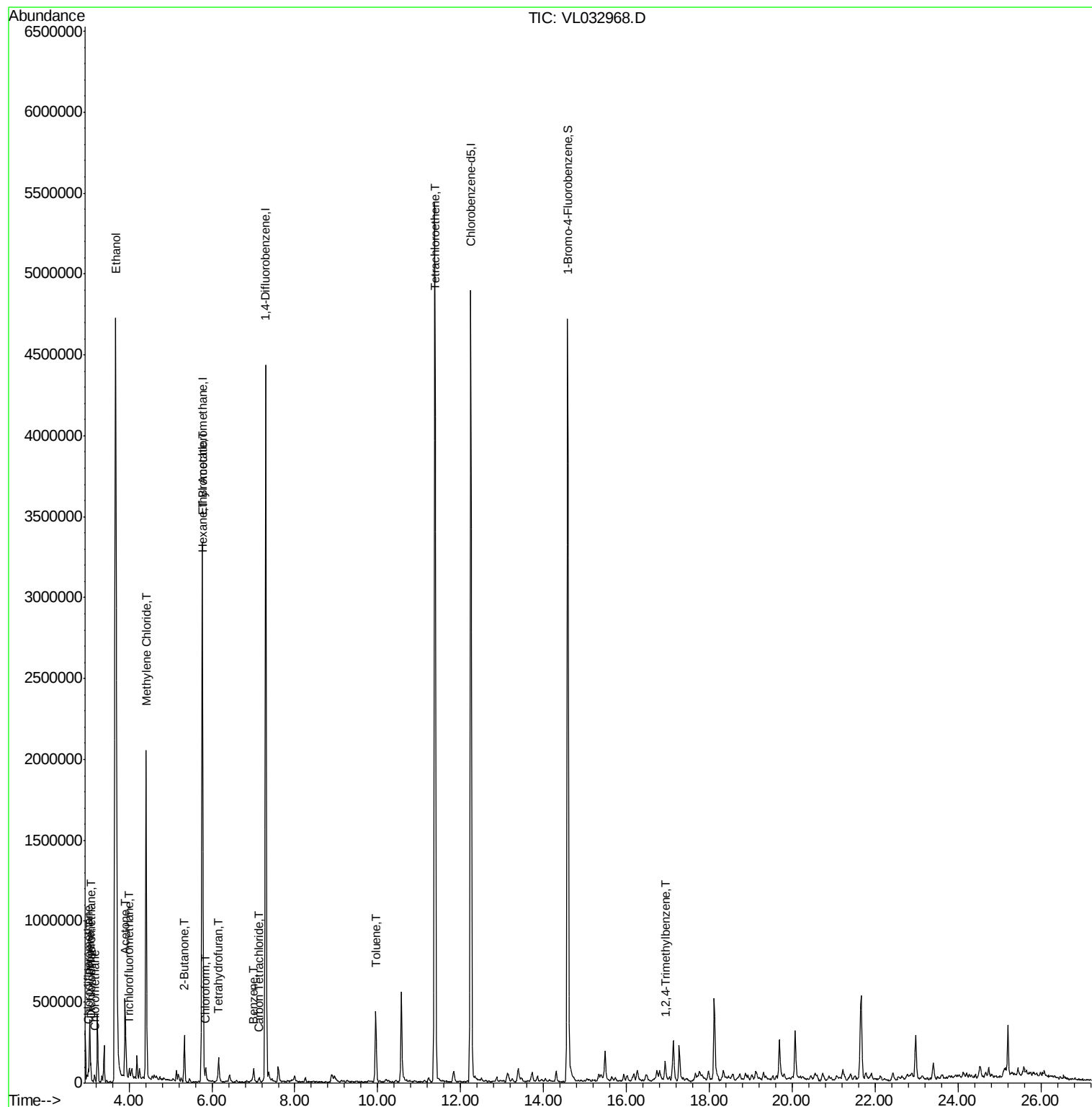
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121118\
Data File : VL032968.D
Acq On : 11 Dec 2018 23:57
Operator : SY/AP
Sample : J6338-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

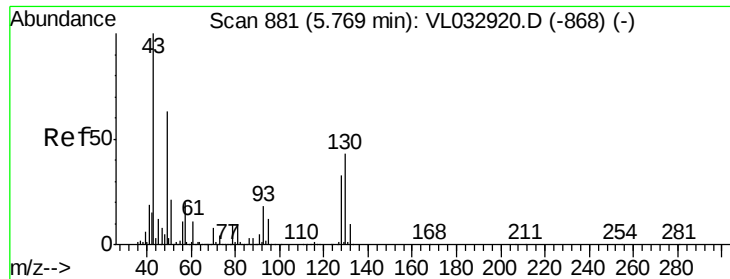
Instrument :
MSVOA_L
ClientSampleId :
IA2

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12/13/2018 7:58:49 AM

Quant Time: Dec 12 17:15:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032968.D

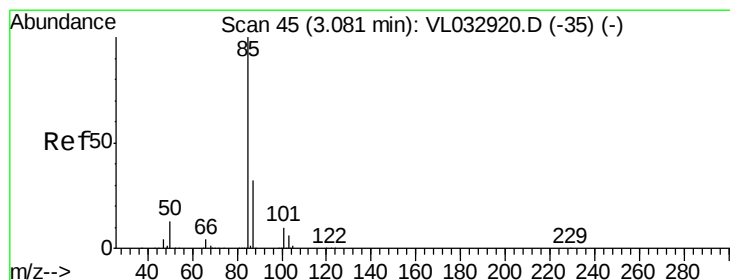
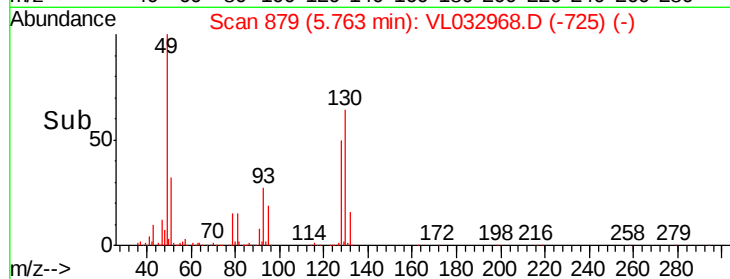
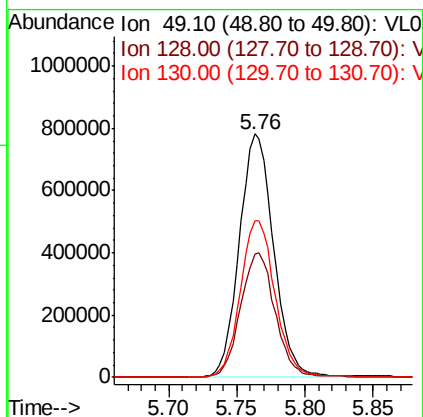
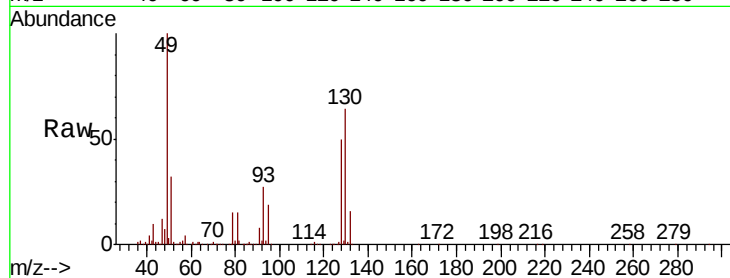
Acq: 11 Dec 2018 23:57

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion: 49 Resp: 1369735
Ion Ratio Lower Upper
49 100
128 51.9 26.3 78.8
130 65.9 33.9 101.7

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#2

Dichlorodifluoromethane

Concen: 0.406 ppbv

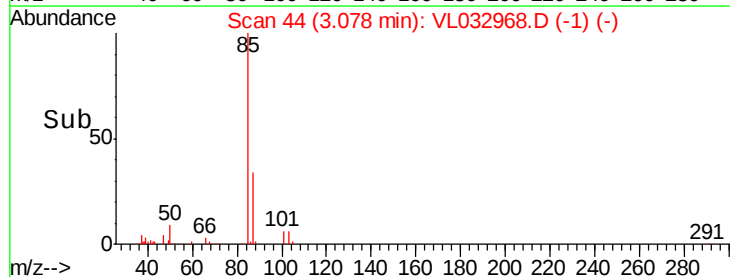
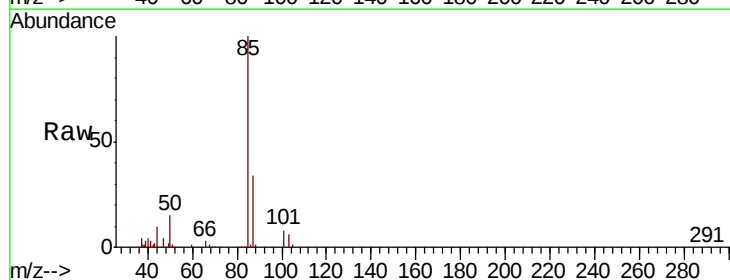
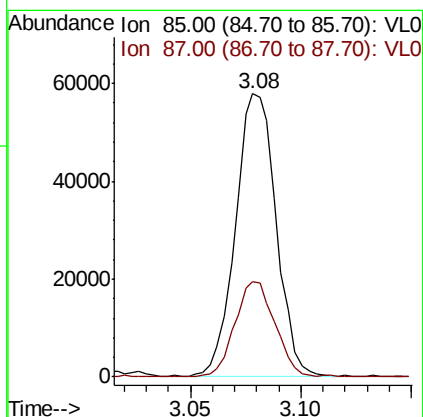
RT: 3.08 min Scan# 44

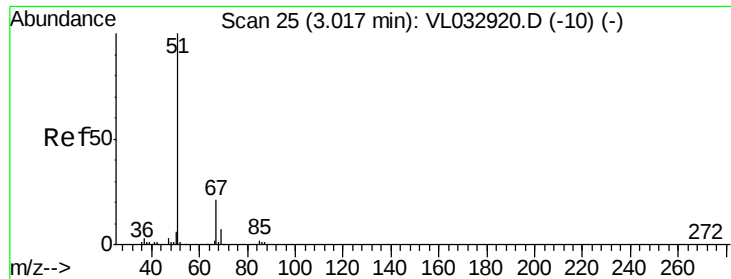
Delta R.T. -0.00 min

Lab File: VL032968.D

Acq: 11 Dec 2018 23:57

Tgt Ion: 85 Resp: 74240
Ion Ratio Lower Upper
85 100
87 33.6 25.7 38.5





#3

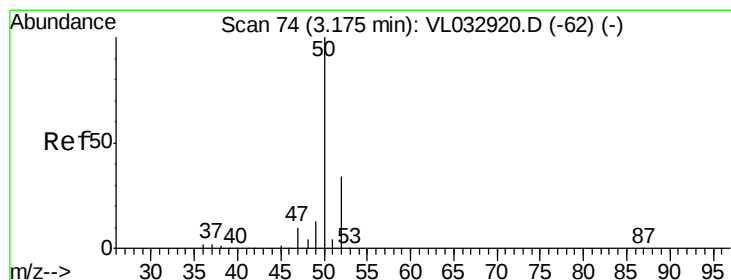
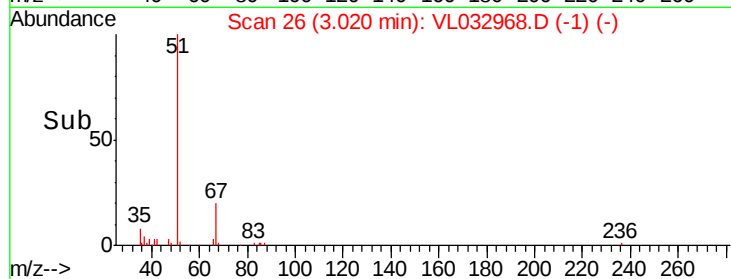
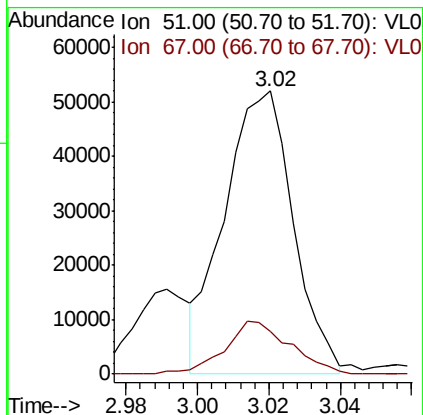
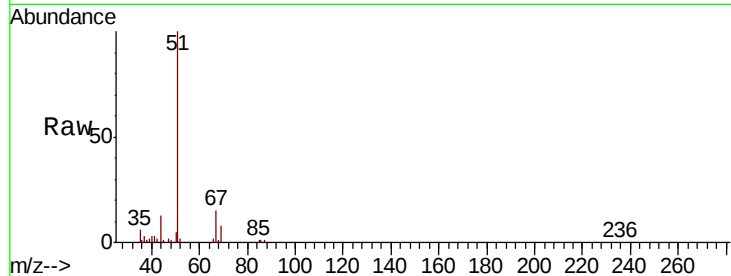
Chlorodifluoromethane
 Concen: 0.668 ppbv
 RT: 3.02 min Scan# 26
 Delta R.T. 0.00 min
 Lab File: VL032968.D
 Acq: 11 Dec 2018 23:57

Instrument :
 MSVOA_L
 ClientSampled :
 IA2

Tot Ion	Ratio	Lower	Upper
51	100		
67	17.7	16.8	25.2

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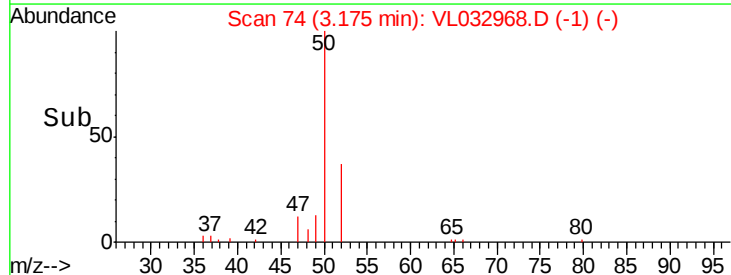
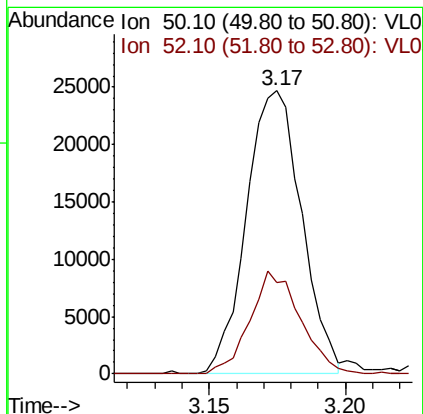
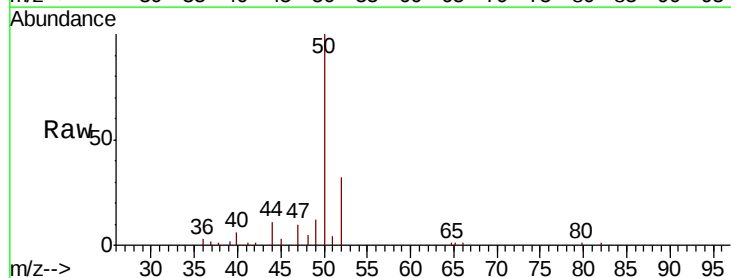
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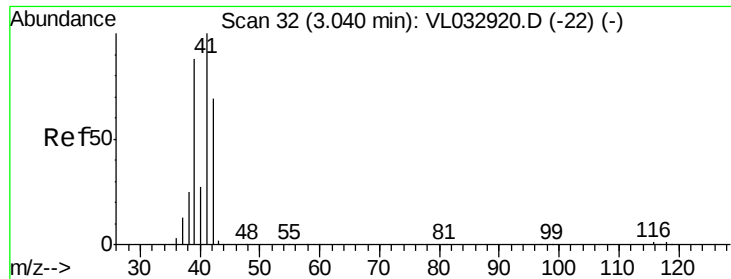


#4

Chloromethane
 Concen: 0.573 ppbv
 RT: 3.17 min Scan# 74
 Delta R.T. 0.00 min
 Lab File: VL032968.D
 Acq: 11 Dec 2018 23:57

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.5	27.3	40.9





#9

Propene

Concen: 1.992 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032968.D

Acq: 11 Dec 2018 23:57

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 41 Resp: 81722

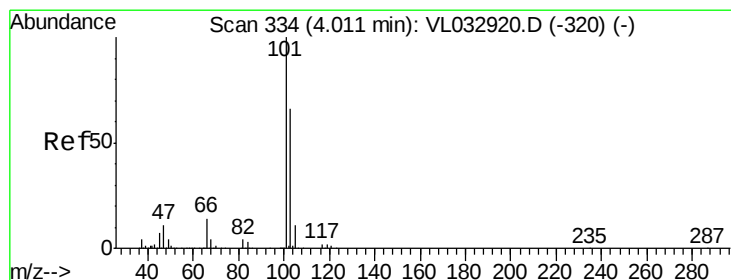
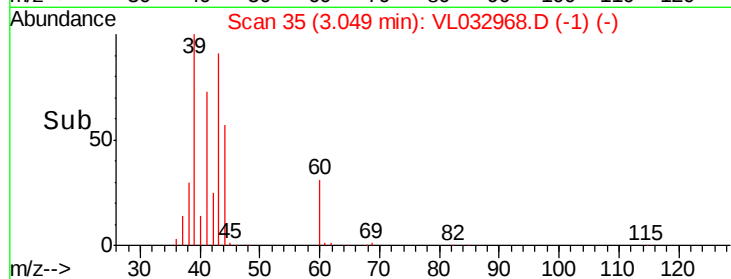
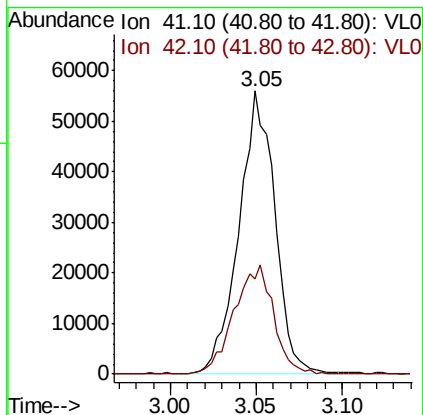
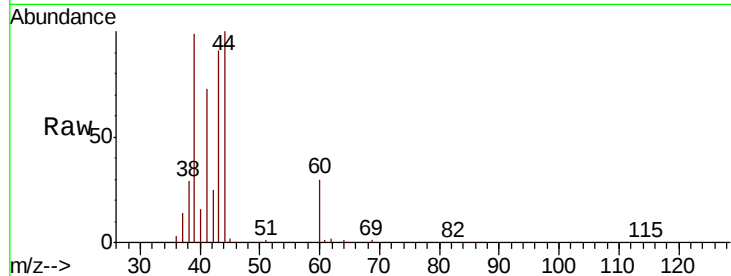
Ion Ratio Lower Upper

41 100

42 42.2 56.2 84.2#

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#11

Trichlorofluoromethane

Concen: 0.224 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL032968.D

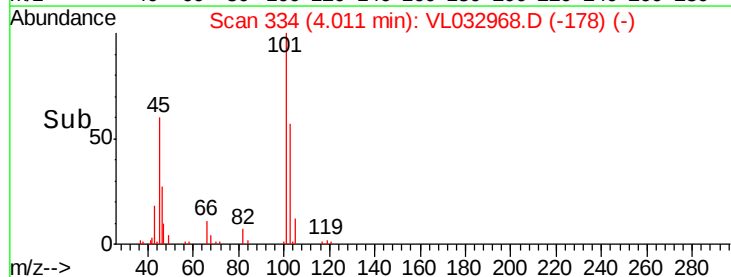
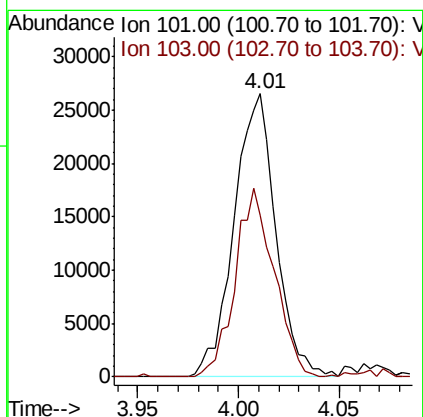
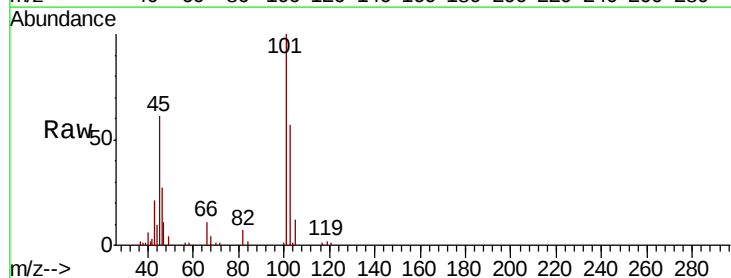
Acq: 11 Dec 2018 23:57

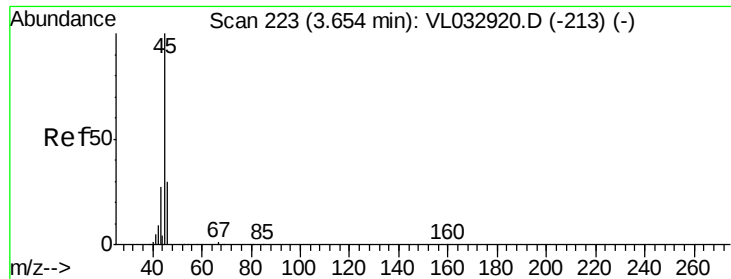
Tgt Ion: 101 Resp: 38601

Ion Ratio Lower Upper

101 100

103 57.3 52.7 79.1





#13

Ethanol

Concen: 575.985 ppbv

RT: 3.68 min Scan# 230

Delta R.T. 0.02 min

Lab File: VL032968.D

Acq: 11 Dec 2018 23:57

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 45 Resp: 8134569

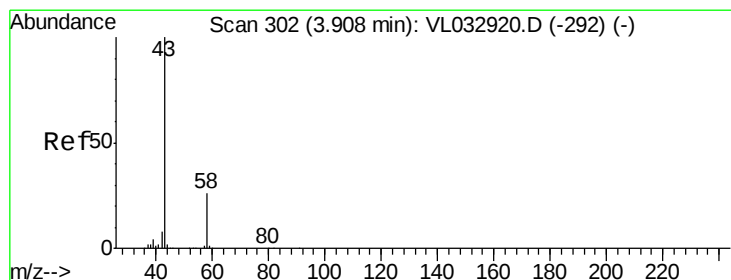
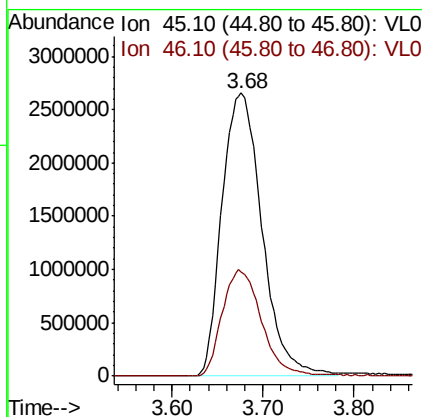
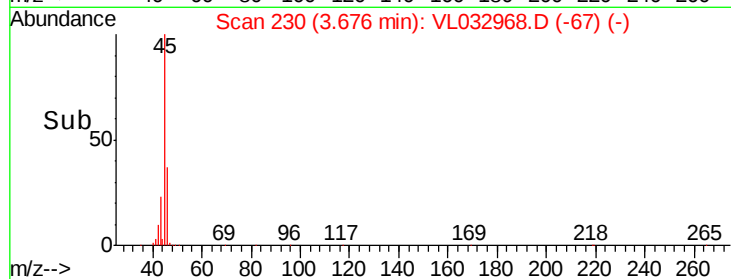
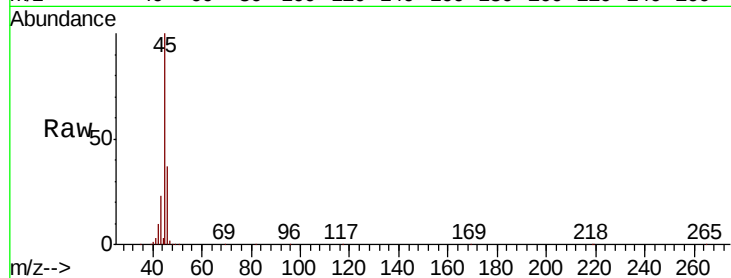
Ion Ratio Lower Upper

45 100

46 36.9 13.8 55.4

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#15

Acetone

Concen: 4.103 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032968.D

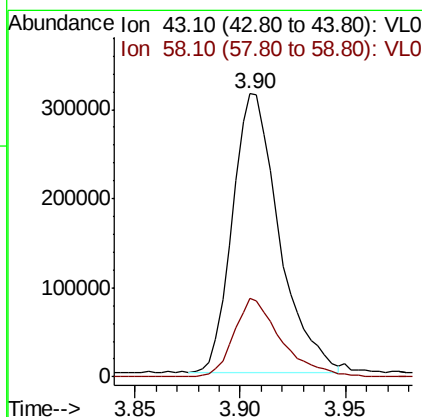
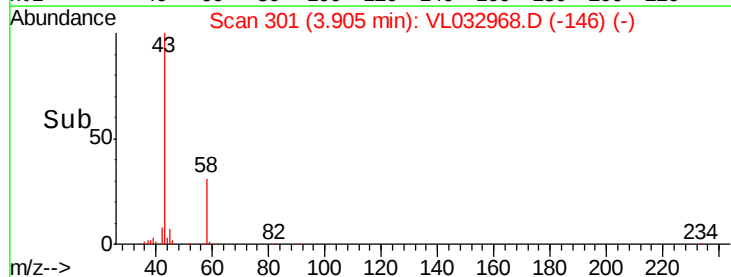
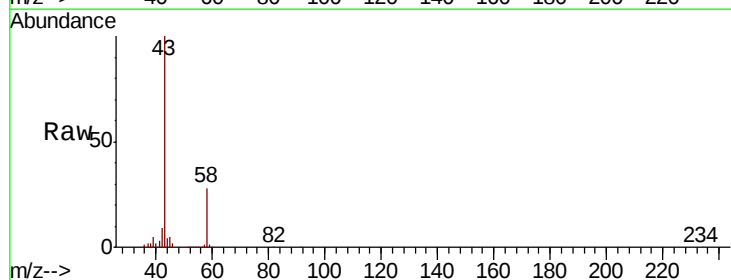
Acq: 11 Dec 2018 23:57

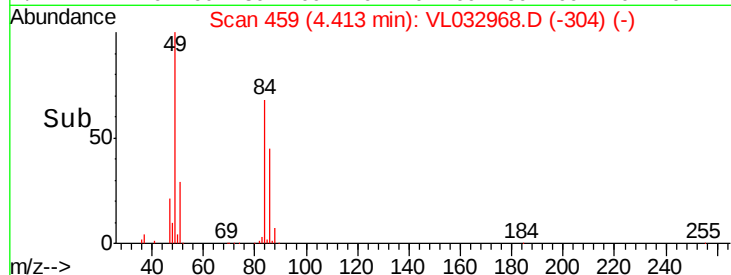
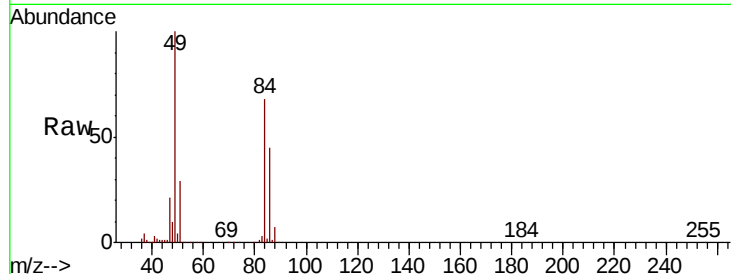
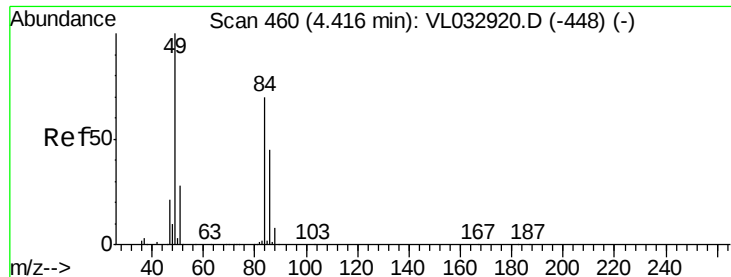
Tgt Ion: 43 Resp: 482366

Ion Ratio Lower Upper

43 100

58 28.7 20.6 30.8





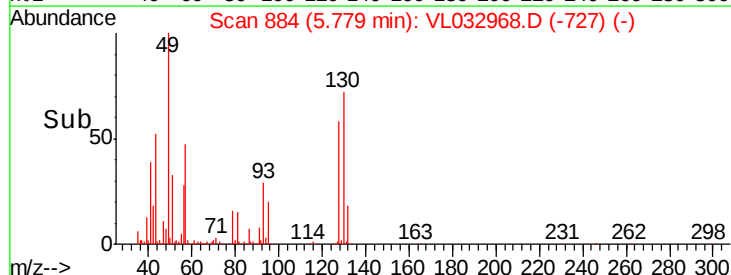
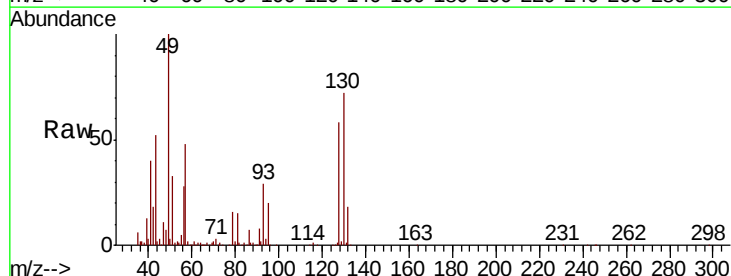
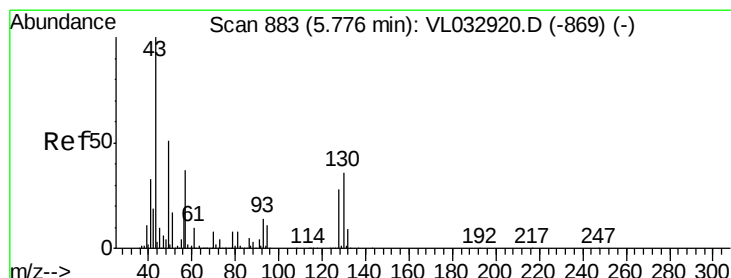
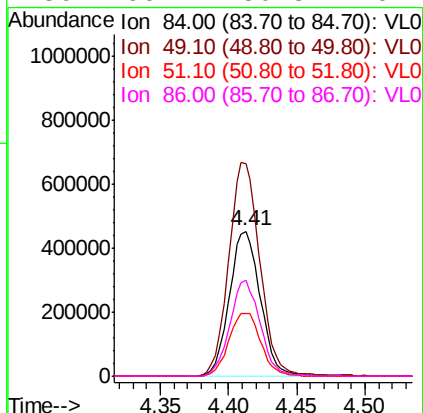
#20
Methvlene Chloride
Concen: 12.487 ppbv
RT: 4.41 min Scan# 459
Delta R.T. -0.00 min
Lab File: VL032968.D
Acq: 11 Dec 2018 23:57

Tot Ion	84	Resp	717498
Ion	Ratio	Lower	Upper
84	100		
49	146.9	113.8	170.8
51	43.3	31.8	47.8
86	66.4	50.8	76.2

Instrument :
MSVOA_L
ClientSampled :
IA2

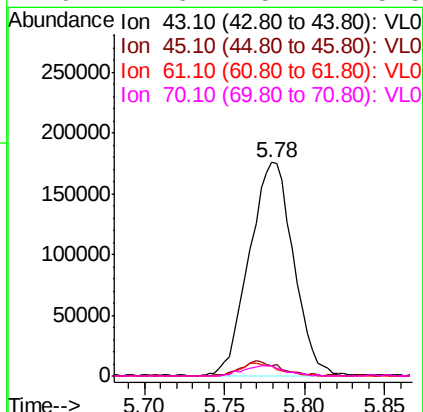
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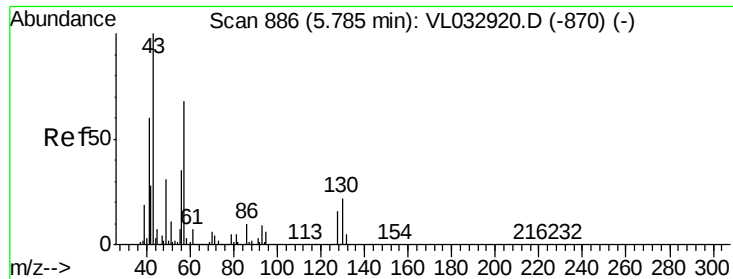
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#25
Ethyl Acetate
Concen: 1.196 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL032968.D
Acq: 11 Dec 2018 23:57

Tgt Ion	43	Resp	332164
Ion	Ratio	Lower	Upper
43	100		
45	6.5	7.8	11.6#
61	5.4	7.4	11.2#
70	4.6	5.7	8.5#





#26

Hexane

Concen: 2.309 ppbv

RT: 5.78 min Scan# 885

Delta R.T. -0.00 min

Lab File: VL032968.D

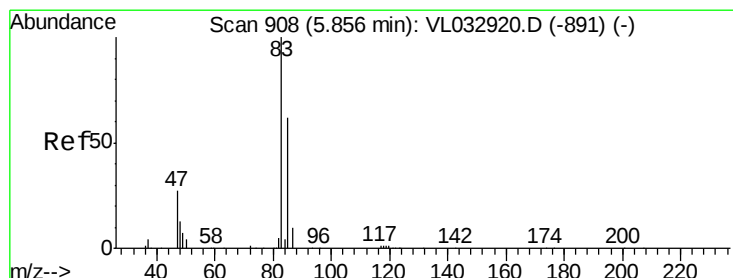
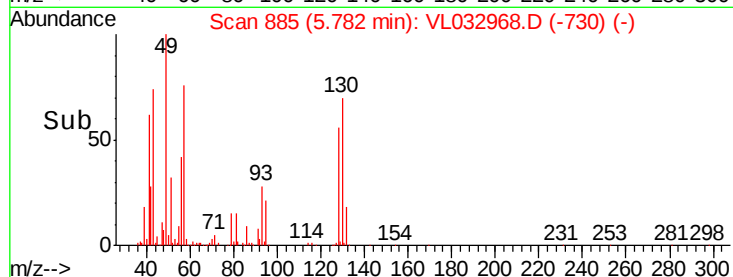
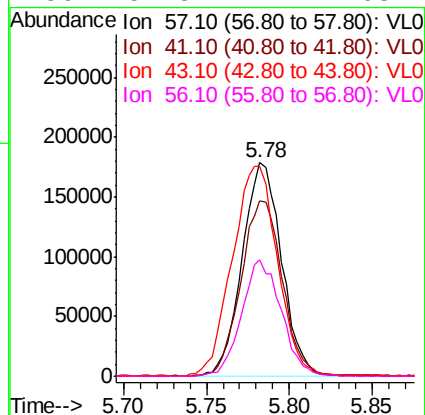
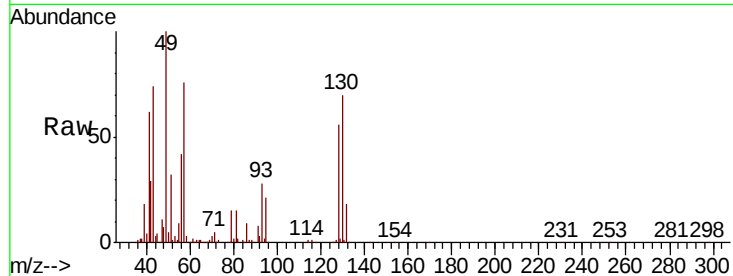
Acq: 11 Dec 2018 23:57

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion:	57	Resp:	296016
Ion Ratio	Lower	Upper	
57	100		
41	86.5	72.2	108.2
43	113.3	171.9	257.9#
56	54.8	42.2	63.2

Manual Integrations
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#29

Chloroform

Concen: 0.195 ppbv

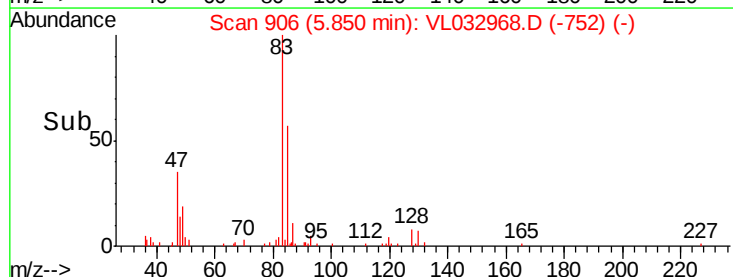
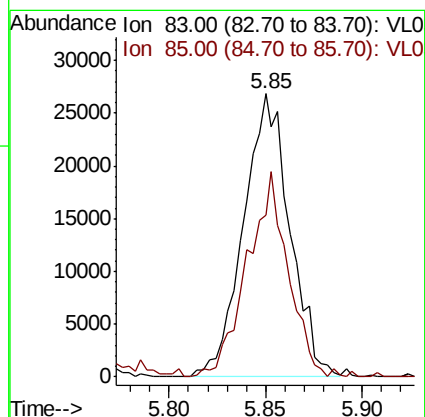
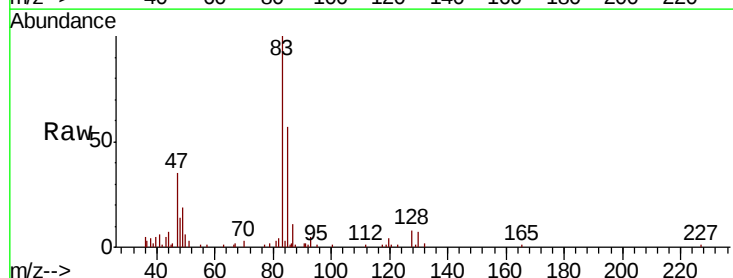
RT: 5.85 min Scan# 906

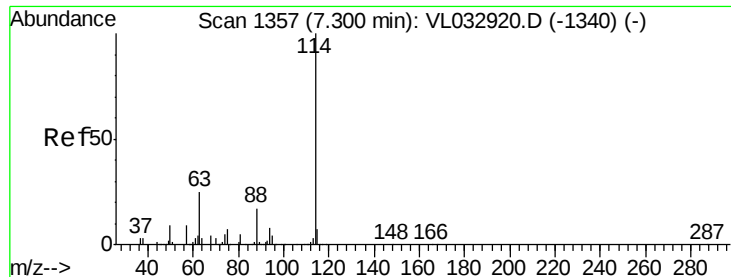
Delta R.T. -0.01 min

Lab File: VL032968.D

Acq: 11 Dec 2018 23:57

Tgt Ion:	83	Resp:	44609
Ion Ratio	Lower	Upper	
83	100		
85	58.1	49.8	74.8





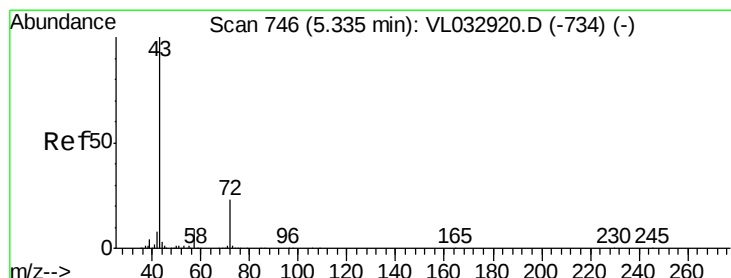
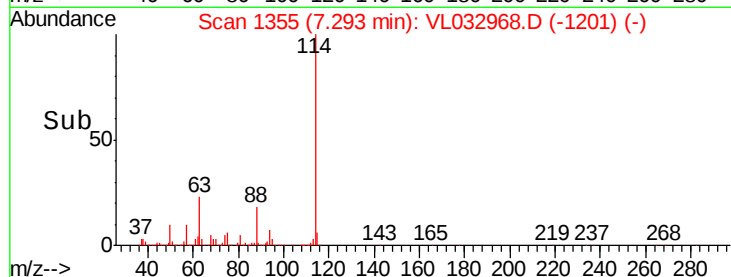
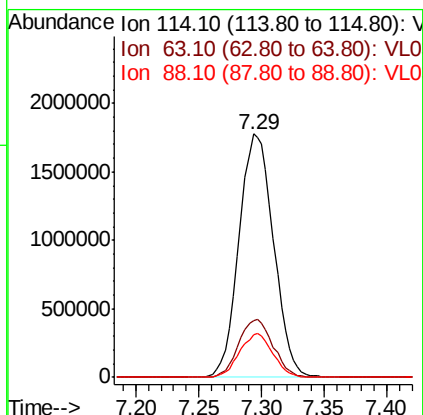
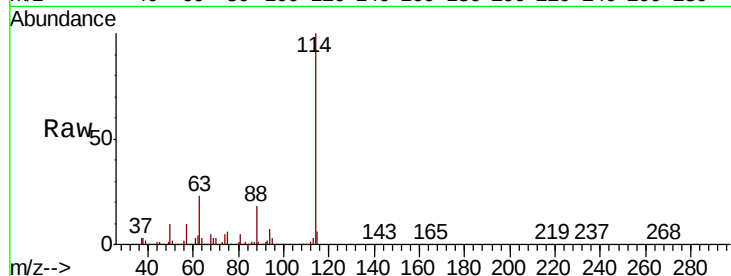
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL032968.D
 Acq: 11 Dec 2018 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tot Ion:114 Resp: 3409015
 Ion Ratio Lower Upper
 114 100
 63 23.7 20.1 30.1
 88 17.5 14.2 21.4

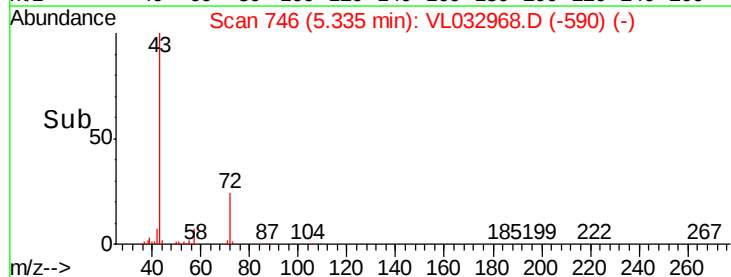
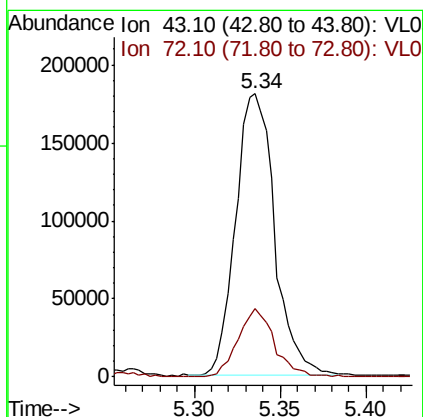
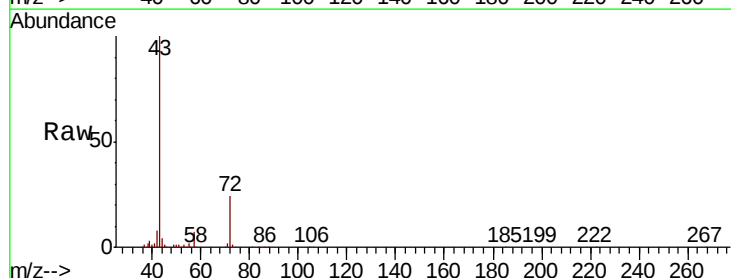
Manual Integrations
 APPROVED

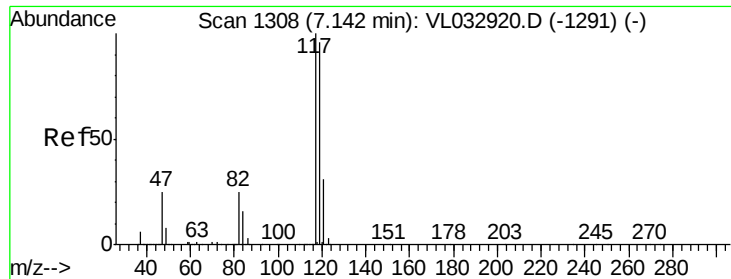
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#34
 2-Butanone
 Concen: 1.928 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VL032968.D
 Acq: 11 Dec 2018 23:57

Tgt Ion: 43 Resp: 286301
 Ion Ratio Lower Upper
 43 100
 72 22.8 18.8 28.2





#35

Carbon Tetrachloride

Concen: 0.064 ppbv m

RT: 7.14 min Scan# 1306

Delta R.T. -0.01 min

Lab File: VL032968.D

Acq: 11 Dec 2018 23:57

Instrument :

MSVOA_L

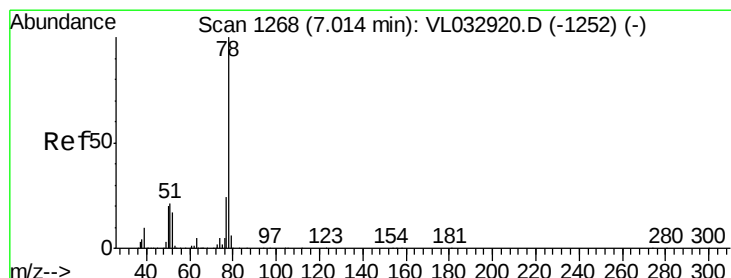
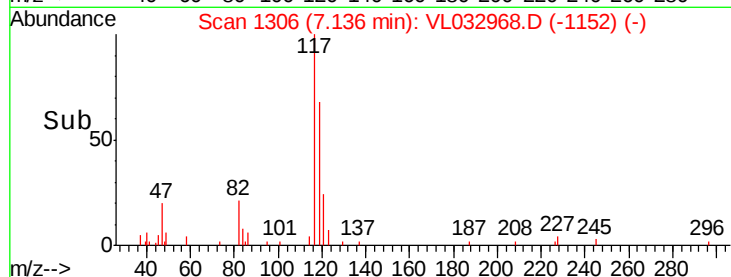
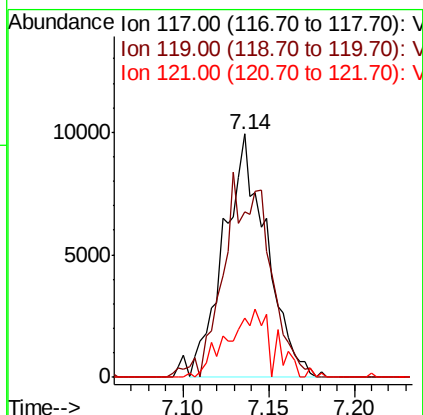
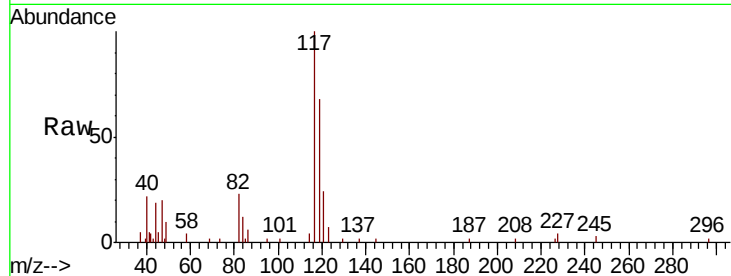
ClientSampled :

IA2

Tot Ion:	117	Resp:	17127
Ion Ratio	Lower	Upper	
117	100		
119	68.0	76.5	114.7#
121	24.4	24.5	36.7#

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#36

Benzene

Concen: 0.225 ppbv

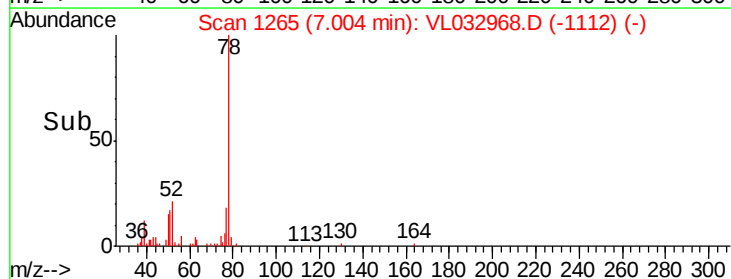
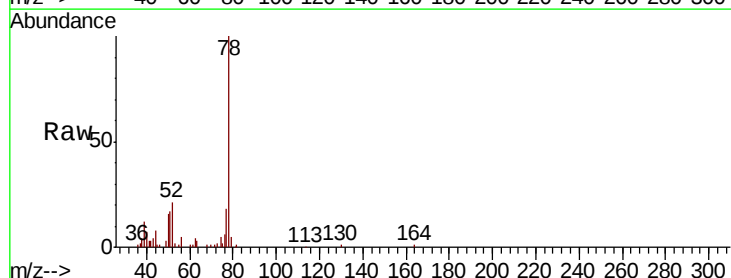
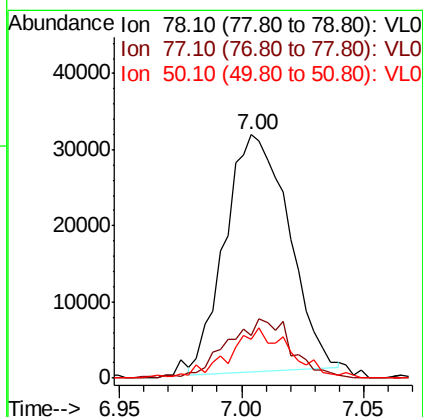
RT: 7.00 min Scan# 1265

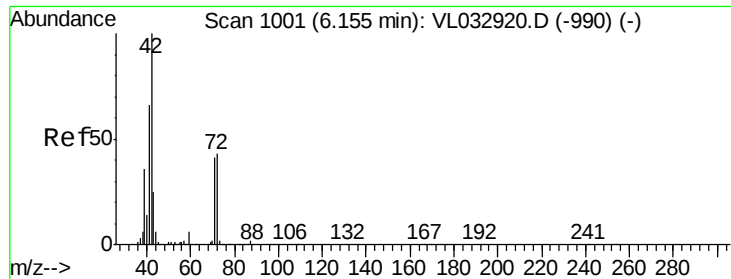
Delta R.T. -0.01 min

Lab File: VL032968.D

Acq: 11 Dec 2018 23:57

Tgt Ion:	78	Resp:	56448
Ion Ratio	Lower	Upper	
78	100		
77	17.1	18.9	28.3#
50	15.6	16.1	24.1#





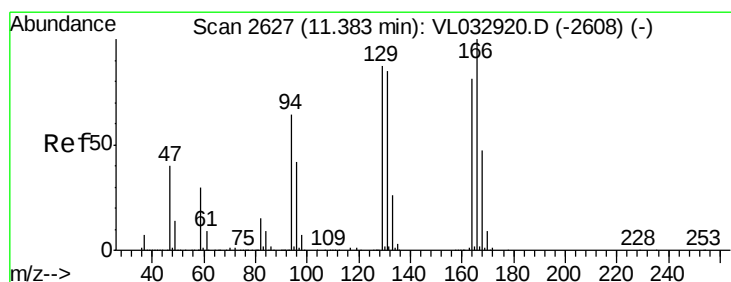
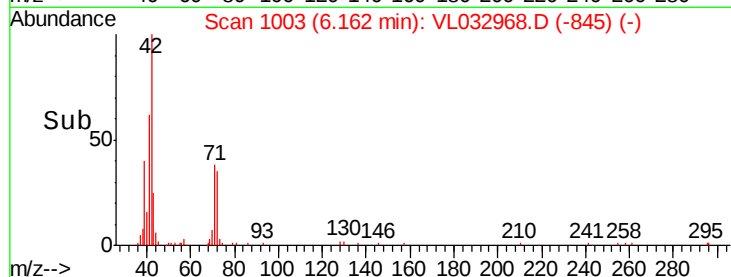
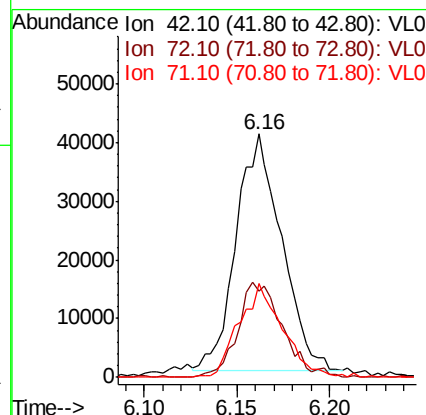
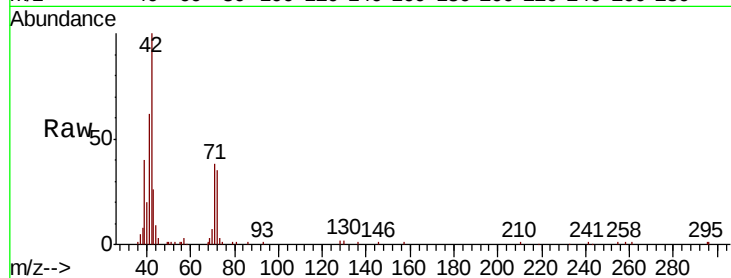
#41
Tetrahydrofuran
Concen: 0.749 ppbv
RT: 6.16 min Scan# 1003
Delta R.T. 0.01 min
Lab File: VL032968.D
Acq: 11 Dec 2018 23:57

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.3	32.9	49.3
71	37.9	32.0	48.0

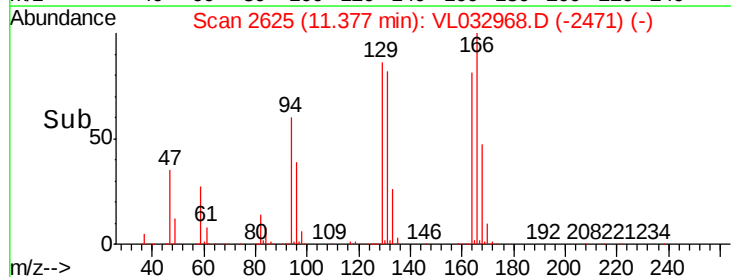
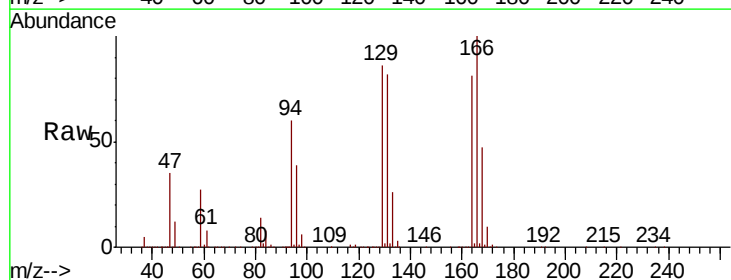
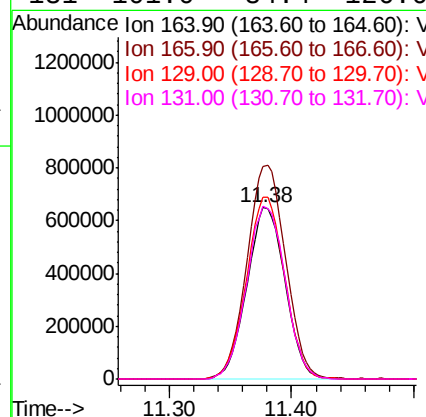
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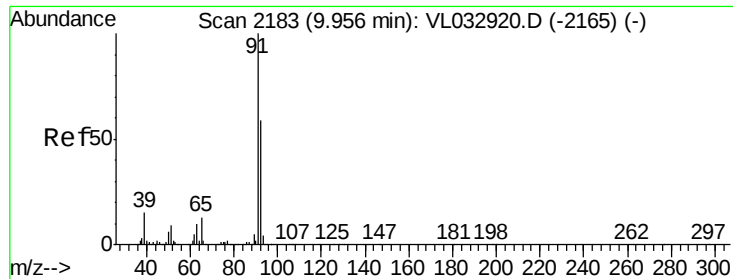
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#52
Tetrachloroethene
Concen: 15.349 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.01 min
Lab File: VL032968.D
Acq: 11 Dec 2018 23:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.9	98.8	148.2
129	106.0	85.5	128.3
131	101.0	84.4	126.6





#53

Toluene

Concen: 1.198 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032968.D

Acq: 11 Dec 2018 23:57

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 91 Resp: 318626

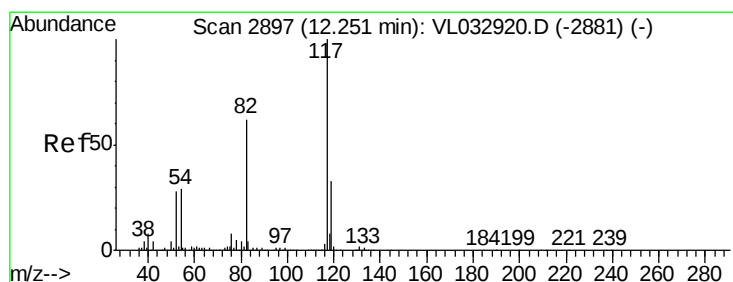
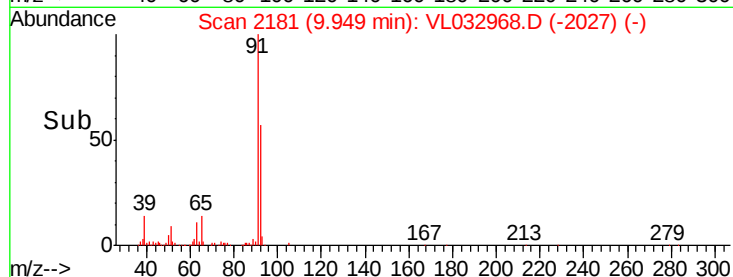
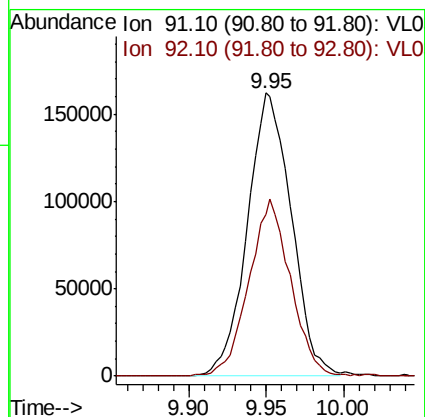
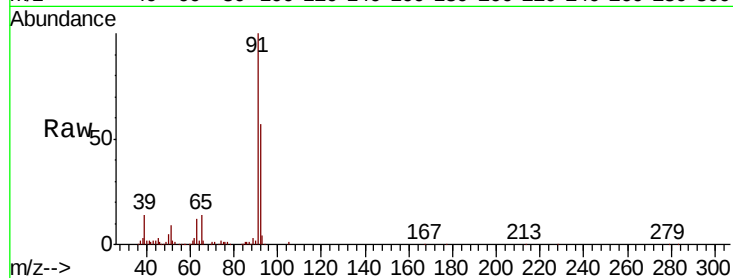
Ion Ratio Lower Upper

91 100

92 59.9 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032968.D

Acq: 11 Dec 2018 23:57

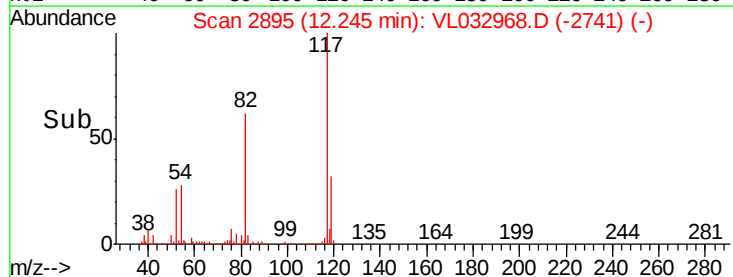
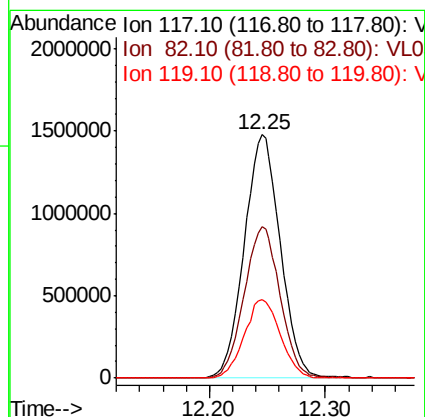
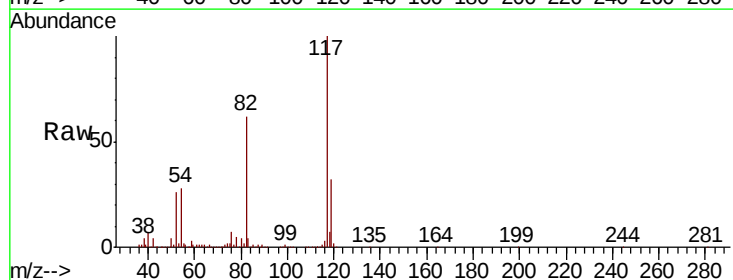
Tgt Ion: 117 Resp: 3186630

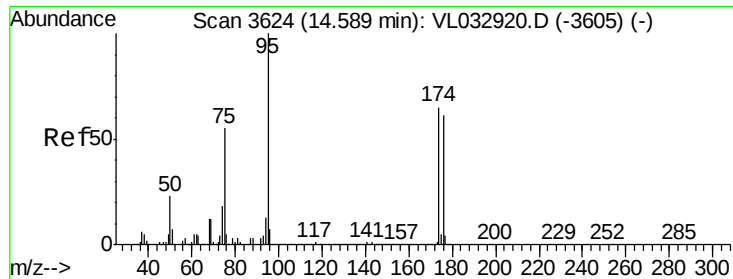
Ion Ratio Lower Upper

117 100

82 62.9 47.8 71.8

119 32.6 43.1 64.7#





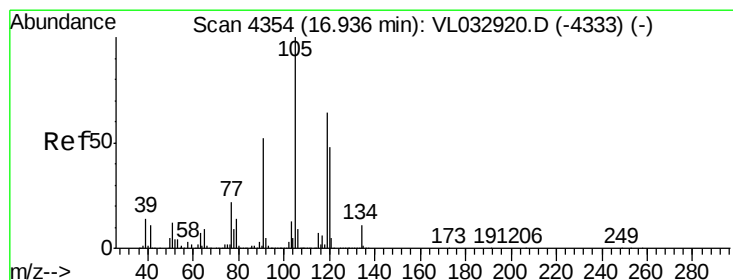
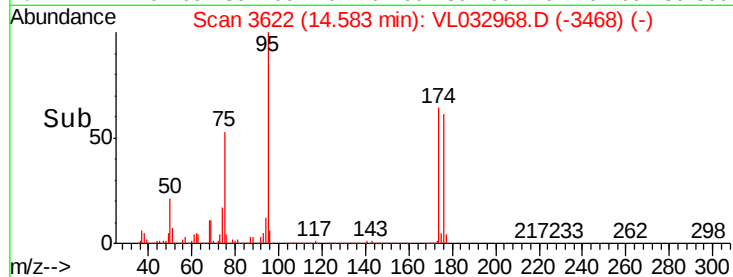
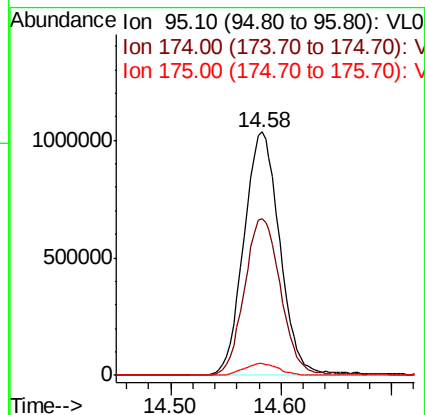
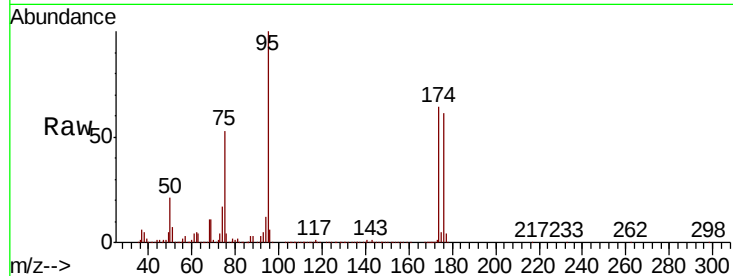
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.933 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL032968.D
 Acq: 11 Dec 2018 23:57

Instrument :
 MSVOA_L
 ClientSampled :
 IA2

Tot Ion: 95 Resp: 2338403
 Ion Ratio Lower Upper
 95 100
 174 66.1 51.4 77.0
 175 4.9 3.8 5.6

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.163 ppbv
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL032968.D
 Acq: 11 Dec 2018 23:57

Tgt Ion: 105 Resp: 62540
 Ion Ratio Lower Upper
 105 100
 120 37.9 38.6 58.0#
 91 17.5 41.7 62.5#
 77 14.2 17.4 26.2#

