

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031720\
 Data File : VL034919.D
 Acq On : 17 Mar 2020 17:24
 Operator : SY/AP
 Sample : L1952-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

MMDadoda
 3/18/2020 5:35:48 PM

Quant Time: Mar 18 07:25:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	923915	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2006794	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1926509	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1673383	11.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.40%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.01	85	79544	0.629	ppbv	95
3) Chlorodifluoromethane	2.94	51	34666m	0.336	ppbv	
4) Chloromethane	3.10	50	31758	0.544	ppbv	96
9) Propene	2.98	41	76870m	1.560	ppbv	
10) Heptane	8.13	43	15712m	0.130	ppbv	
11) Trichlorofluoromethane	3.92	101	34529m	0.257	ppbv	
13) Ethanol	3.57	45	464738	31.022	ppbv	92
15) Acetone	3.82	43	1788117	14.932	ppbv	99
19) Isopropyl Alcohol	3.95	45	113461	1.500	ppbv #	1
20) Methylene Chloride	4.32	84	136818	3.614	ppbv	97
26) Hexane	5.67	57	252982	2.754	ppbv #	43
34) 2-Butanone	5.23	43	625827	4.693	ppbv	99
35) Carbon Tetrachloride	7.01	117	9662m	0.077	ppbv	
36) Benzene	6.89	78	53997	0.302	ppbv	94
41) Tetrahydrofuran	6.04	42	275146	3.813	ppbv	98
53) Toluene	9.82	91	624889	3.025	ppbv	100
59) m/p-Xylene	12.99	91	71288m	0.326	ppbv	
60) o-Xylene	13.72	91	25686m	0.120	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	31443m	0.129	ppbv	

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

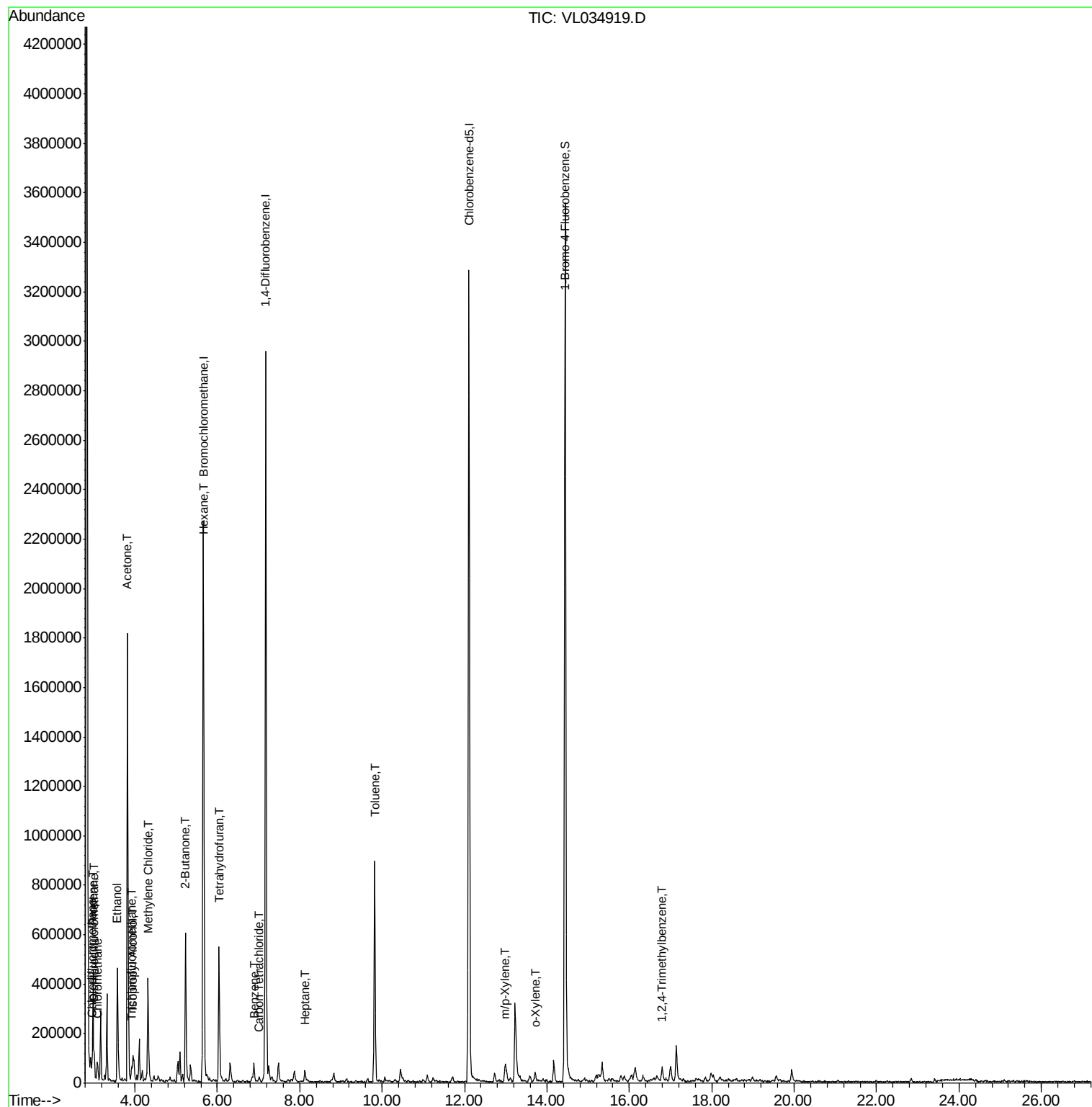
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031720\
Data File : VL034919.D
Acq On : 17 Mar 2020 17:24
Operator : SY/AP
Sample : L1952-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

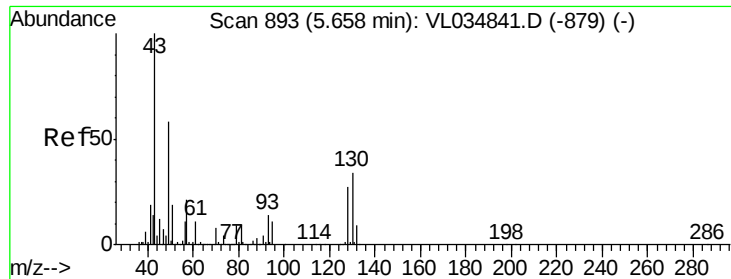
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Manual Integrations
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Quant Time: Mar 18 07:25:34 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL034919.D

Acq: 17 Mar 2020 17:24

Instrument :

MSVOA_L

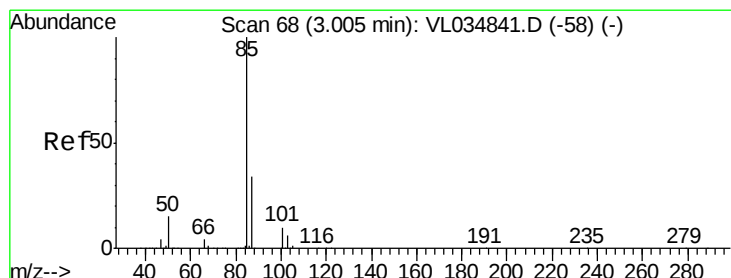
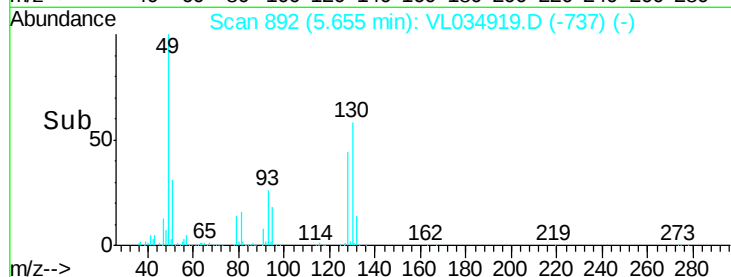
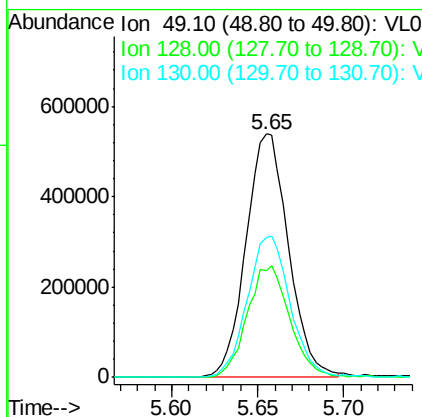
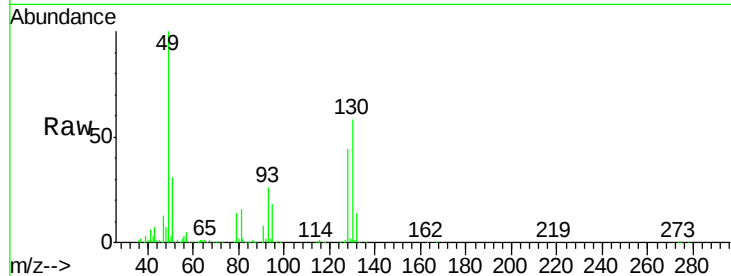
ClientSampleId :

IA-1

Tot Ion	Ratio	Lower	Upper
49	100		
128	46.1	23.4	70.3
130	59.0	30.0	90.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.629 ppbv

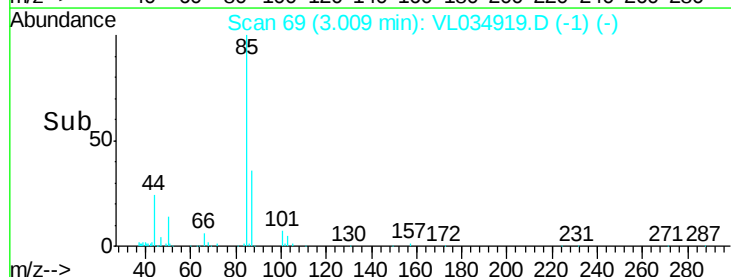
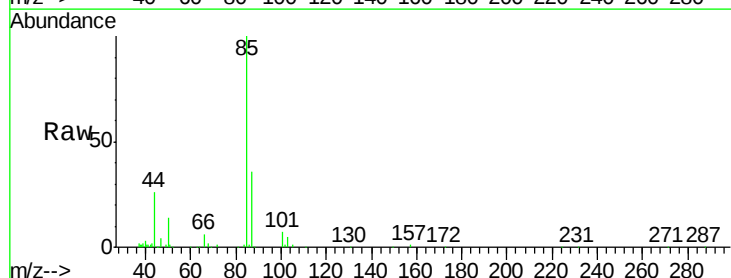
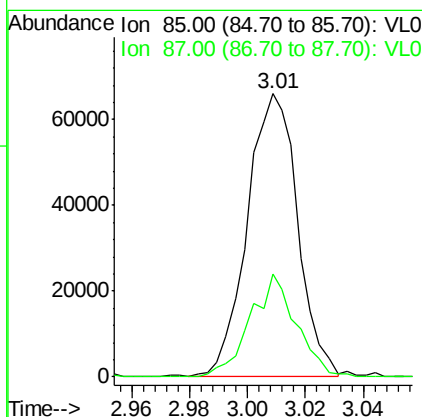
RT: 3.01 min Scan# 69

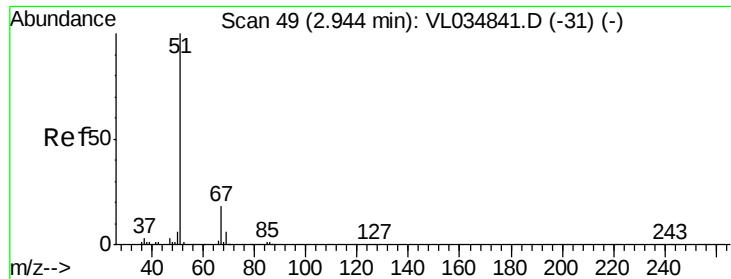
Delta R.T. 0.00 min

Lab File: VL034919.D

Acq: 17 Mar 2020 17:24

Tgt Ion	Ratio	Lower	Upper
85	100		
87	36.3	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.336 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL034919.D

Acq: 17 Mar 2020 17:24

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 51 Resp: 34666

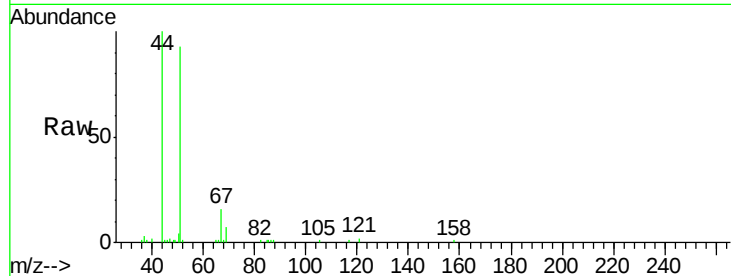
Ion Ratio Lower Upper

51 100

67 19.5 14.3 21.5

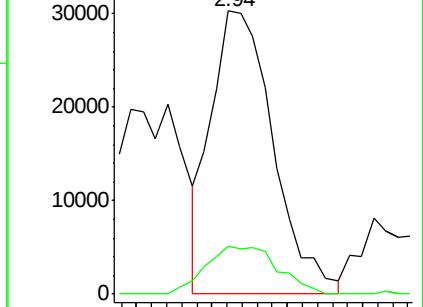
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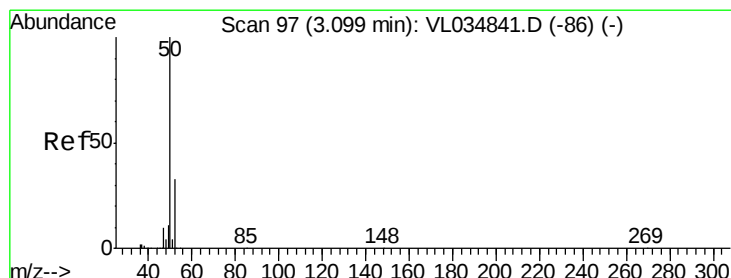
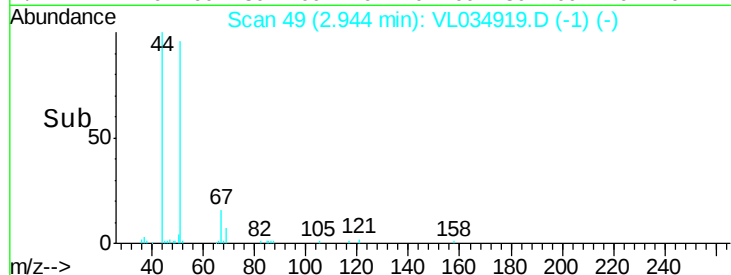


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.544 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034919.D

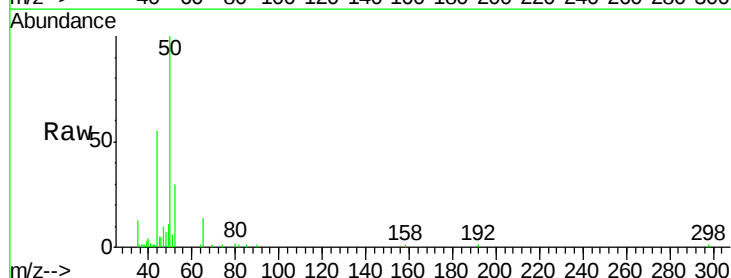
Acq: 17 Mar 2020 17:24

Tgt Ion: 50 Resp: 31758

Ion Ratio Lower Upper

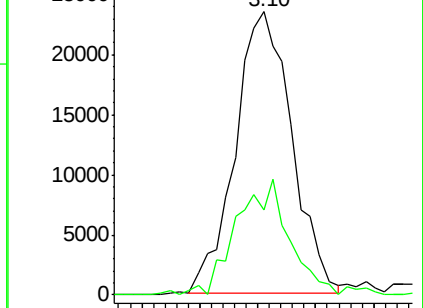
50 100

52 31.3 26.8 40.2

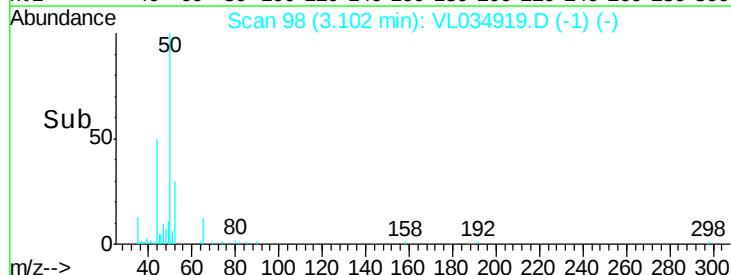


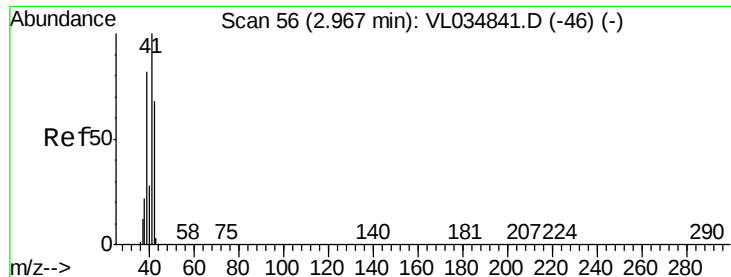
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#9

Propene

Concen: 1.560 ppbv m

RT: 2.98 min Scan# 61

Delta R.T. 0.02 min

Lab File: VL034919.D

Acq: 17 Mar 2020 17:24

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 41 Resp: 76870

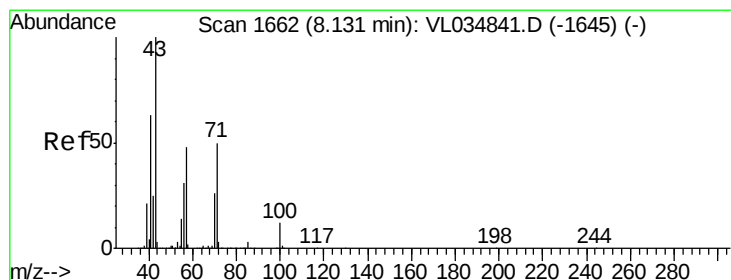
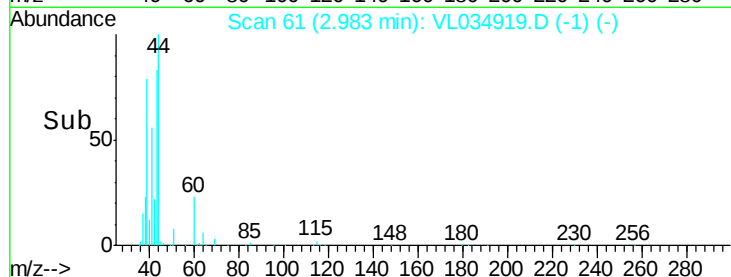
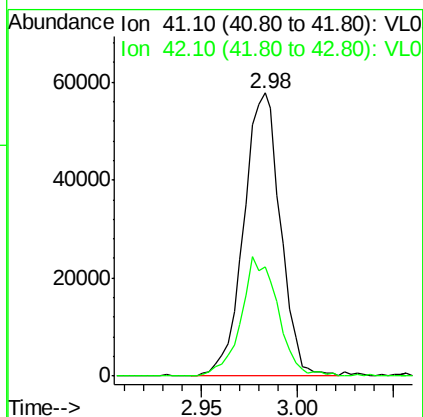
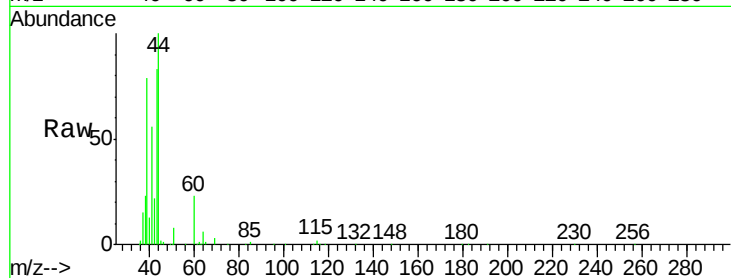
Ion Ratio Lower Upper

41 100

42 59.0 55.2 82.8

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#10

Heptane

Concen: 0.130 ppbv m

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL034919.D

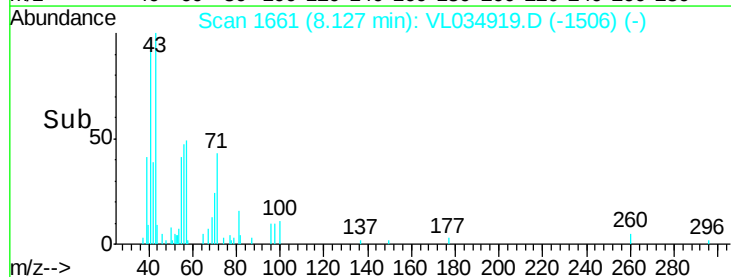
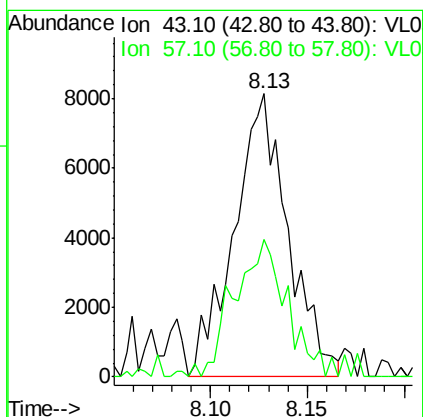
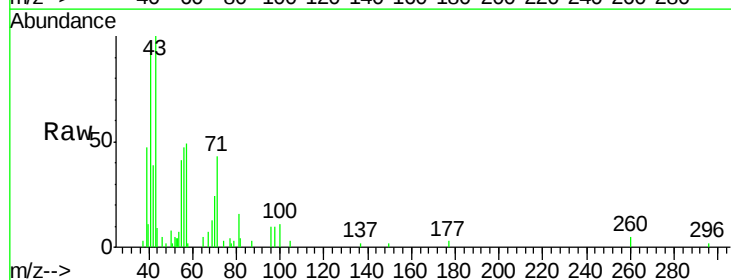
Acq: 17 Mar 2020 17:24

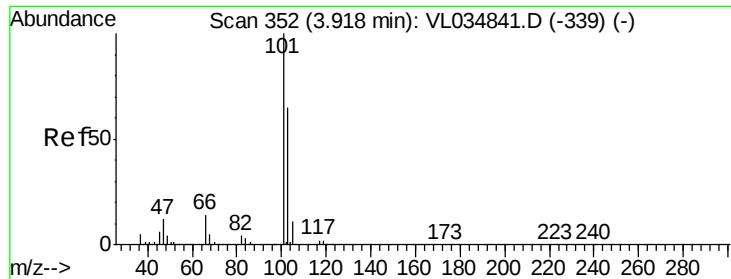
Tgt Ion: 43 Resp: 15712

Ion Ratio Lower Upper

43 100

57 49.9 39.7 59.5





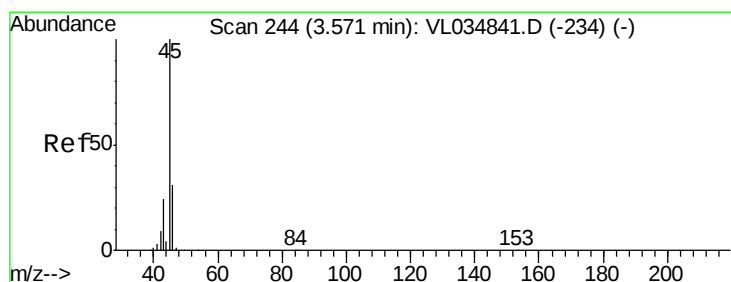
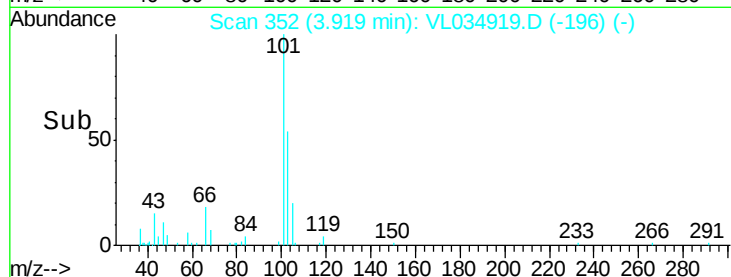
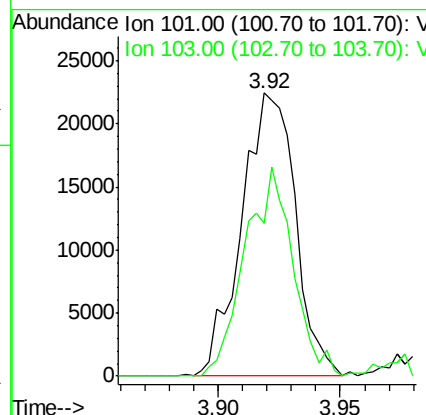
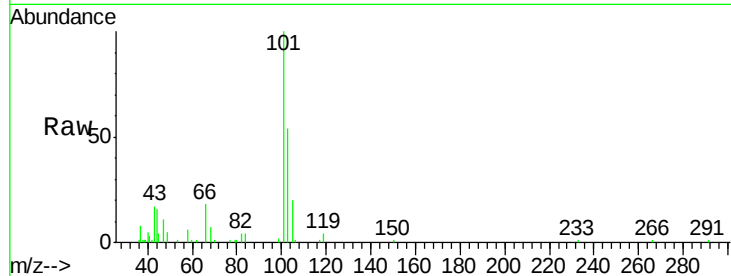
#11
 Trichlorofluoromethane
 Concen: 0.257 ppbv m
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034919.D
 Acq: 17 Mar 2020 17:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tot Ion	Ratio	Lower	Upper
101	100		
103	54.0	51.8	77.8

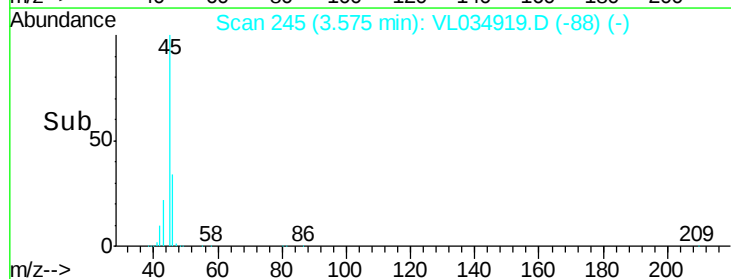
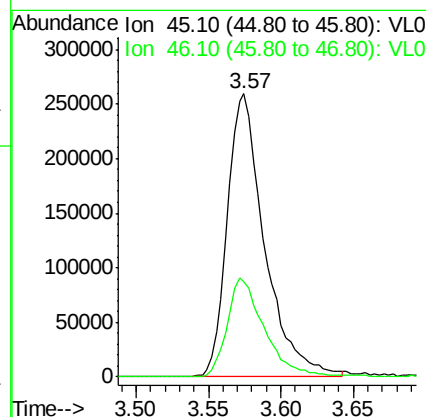
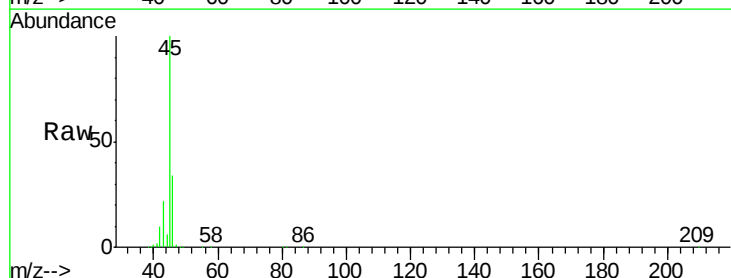
Manual Integrations
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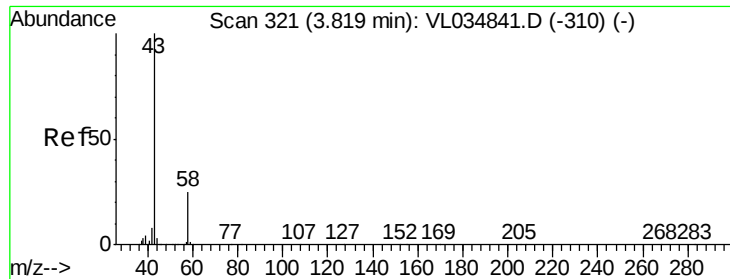
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#13
 Ethanol
 Concen: 31.022 ppbv
 RT: 3.57 min Scan# 245
 Delta R.T. 0.00 min
 Lab File: VL034919.D
 Acq: 17 Mar 2020 17:24

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.1	16.0	64.0





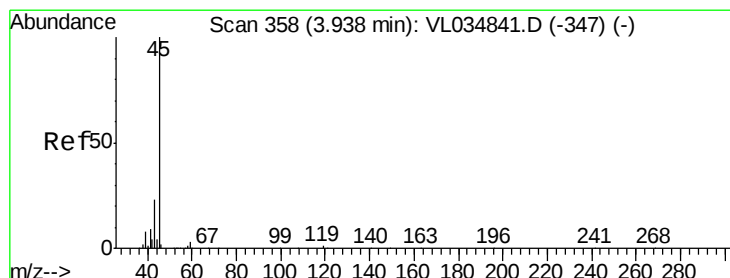
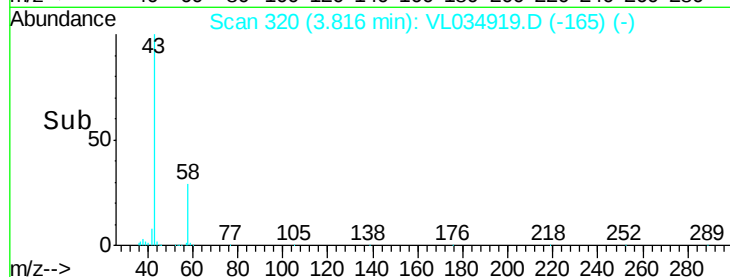
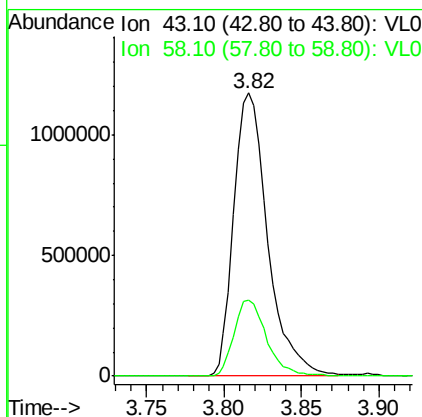
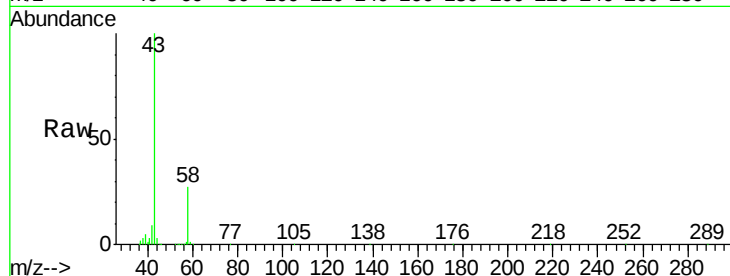
#15
Acetone
Concen: 14.932 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL034919.D
Acq: 17 Mar 2020 17:24

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion: 43 Resp: 1788117
Ion Ratio Lower Upper
43 100
58 26.0 21.0 31.6

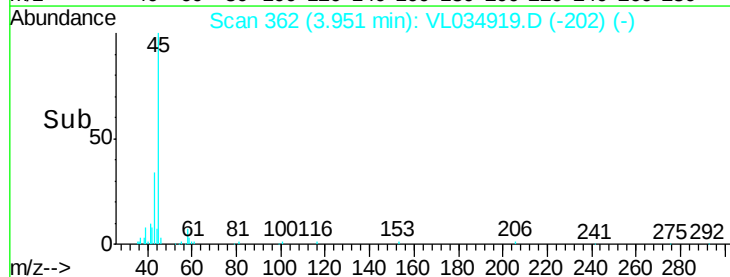
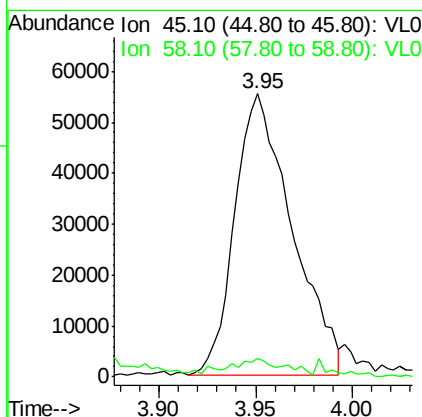
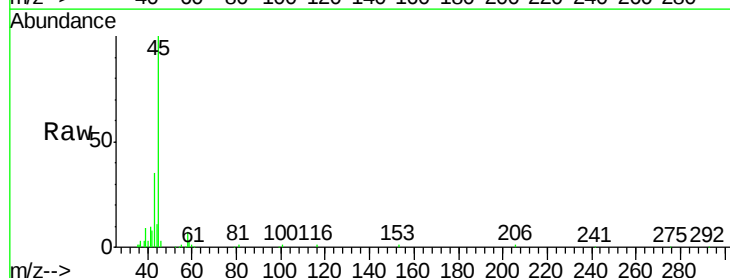
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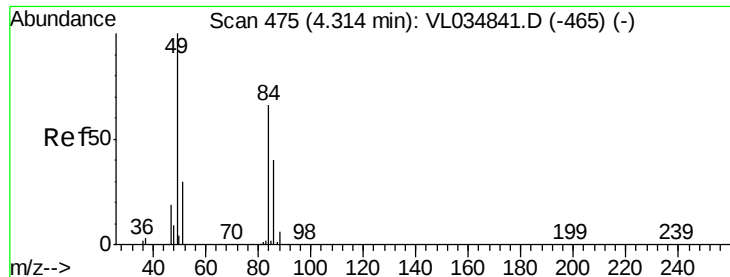
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#19
Isopropyl Alcohol
Concen: 1.500 ppbv
RT: 3.95 min Scan# 362
Delta R.T. 0.01 min
Lab File: VL034919.D
Acq: 17 Mar 2020 17:24

Tgt Ion: 45 Resp: 113461
Ion Ratio Lower Upper
45 100
58 409.8 30.5 45.7#





#20

Methvlene Chloride

Concen: 3.614 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL034919.D

Acq: 17 Mar 2020 17:24

Instrument :

MSVOA_L

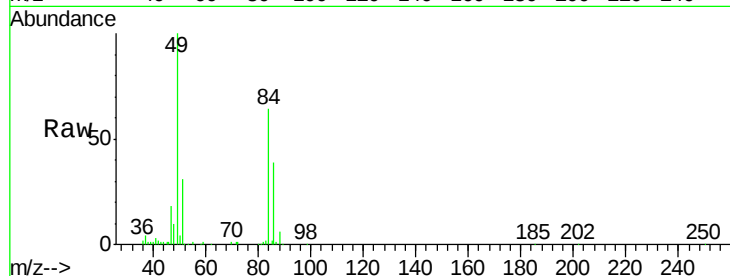
ClientSampleId :

IA-1

Tot Ion:	84	Resp:	136818
Ion	Ratio	Lower	Upper
84	100		
49	156.4	121.5	182.3
51	49.0	36.6	55.0
86	60.7	48.2	72.2

Manual Integrations
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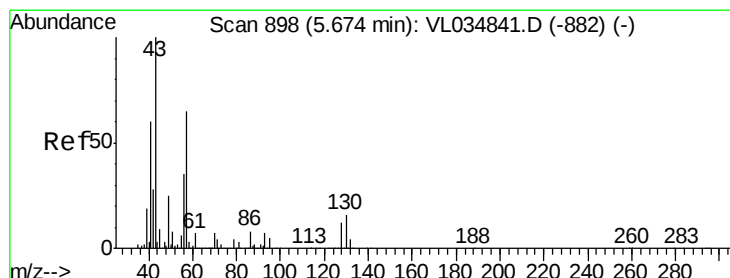
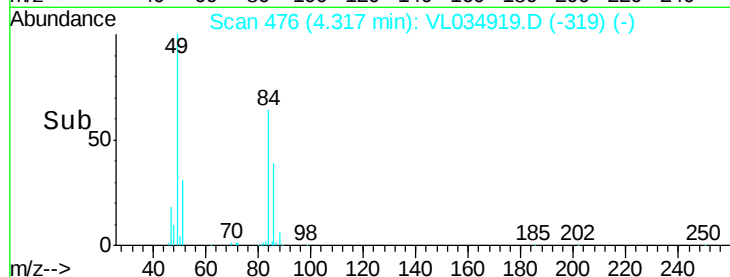
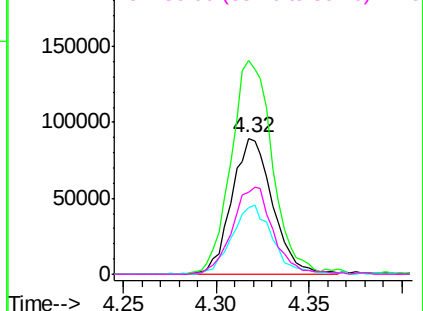
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26

Hexane

Concen: 2.754 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL034919.D

Acq: 17 Mar 2020 17:24

Tgt Ion:	57	Resp:	252982
Ion	Ratio	Lower	Upper
57	100		
41	94.1	72.6	109.0
43	82.5	183.8	275.6#
56	56.5	41.9	62.9

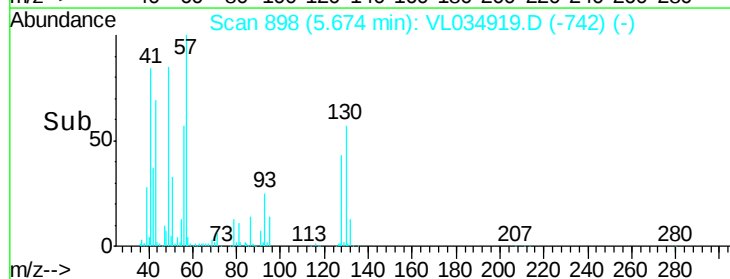
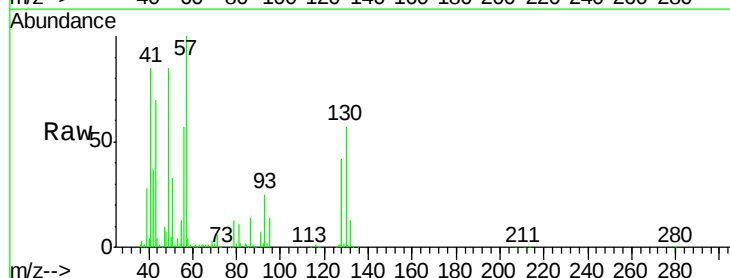
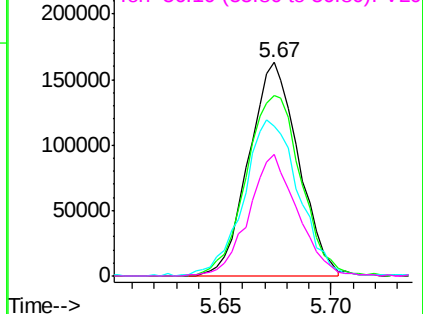
Abundance

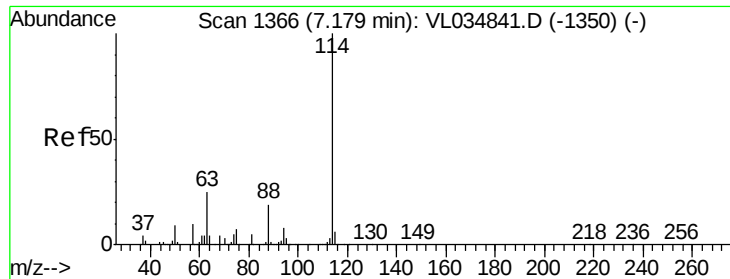
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





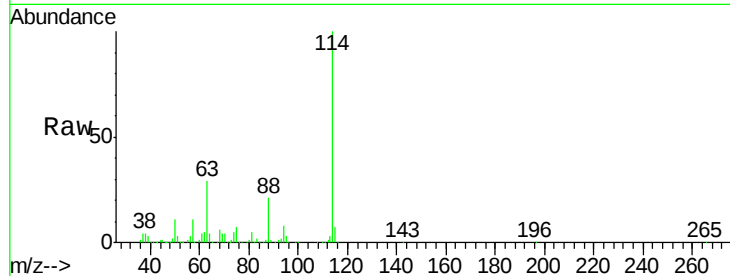
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL034919.D
 Acq: 17 Mar 2020 17:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

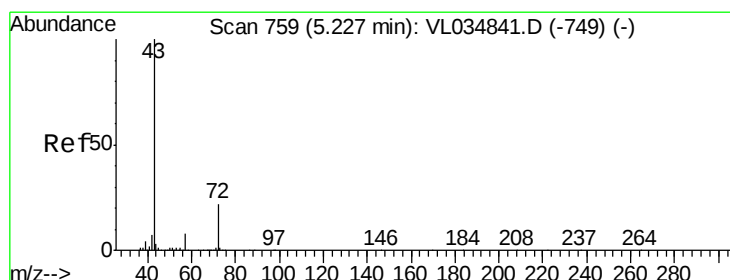
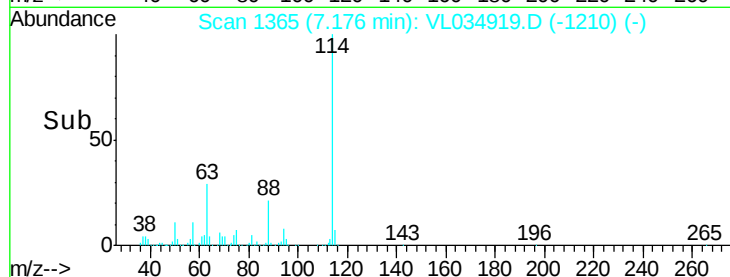
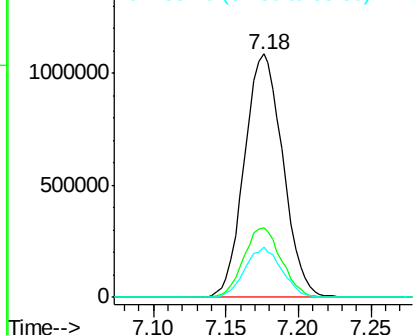
Tot Ion	Ratio	Lower	Upper
114	100		
63	28.3	20.6	31.0
88	19.8	15.0	22.6

Manual Integrations
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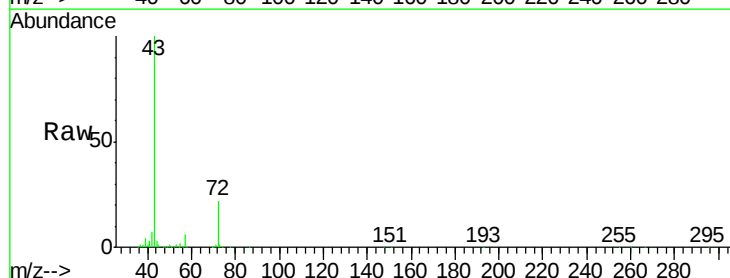


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

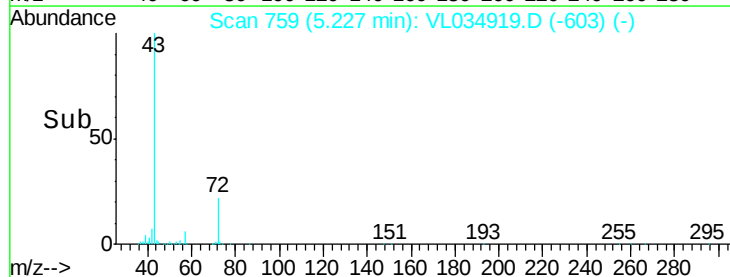
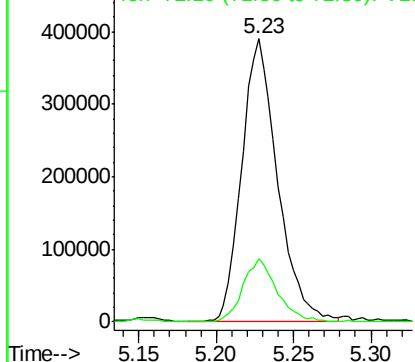


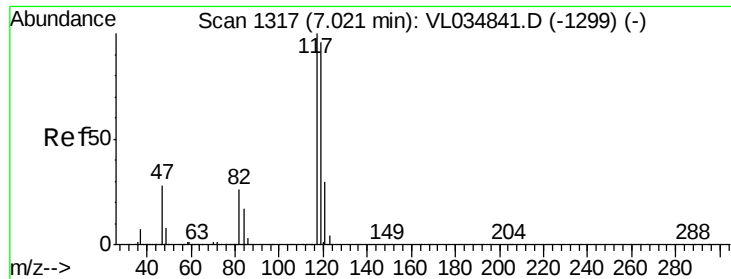
#34
 2-Butanone
 Concen: 4.693 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: VL034919.D
 Acq: 17 Mar 2020 17:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.6	26.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





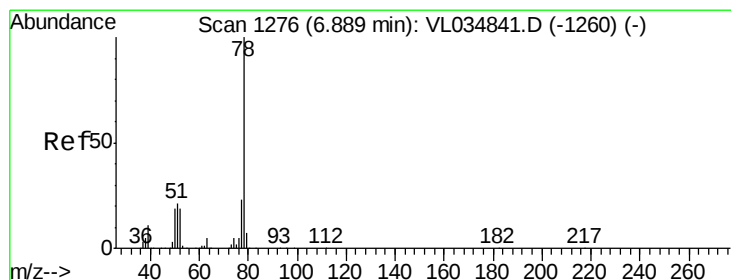
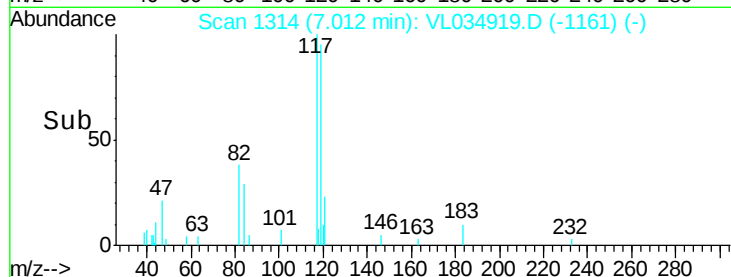
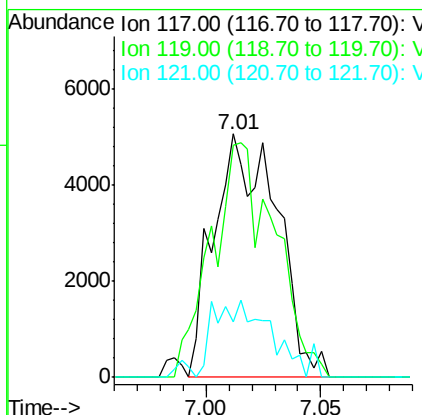
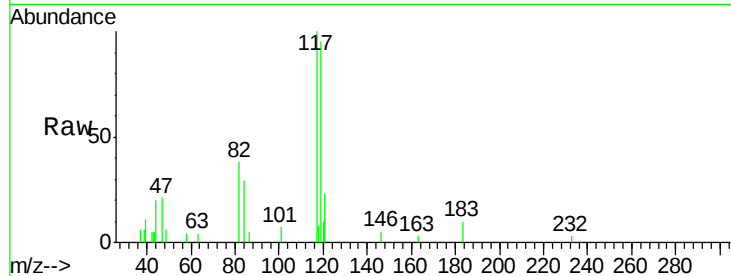
#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 7.01 min Scan# 1314
Delta R.T. -0.01 min
Lab File: VL034919.D
Acq: 17 Mar 2020 17:24

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.0	115.4
121	22.6	24.0	36.0#

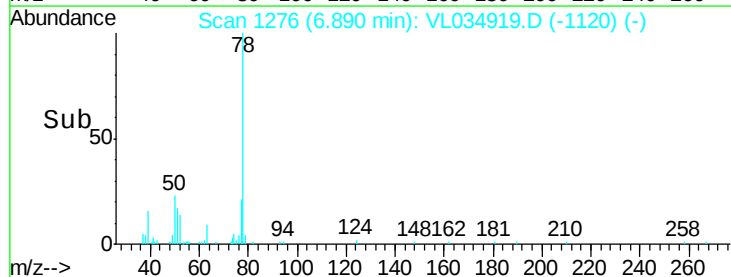
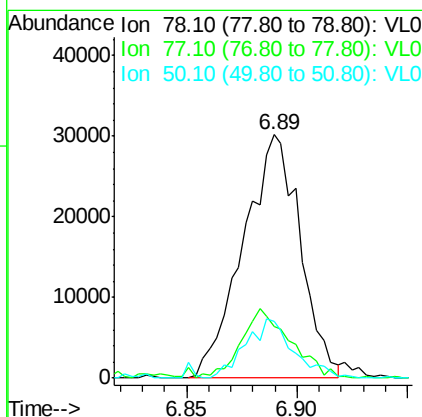
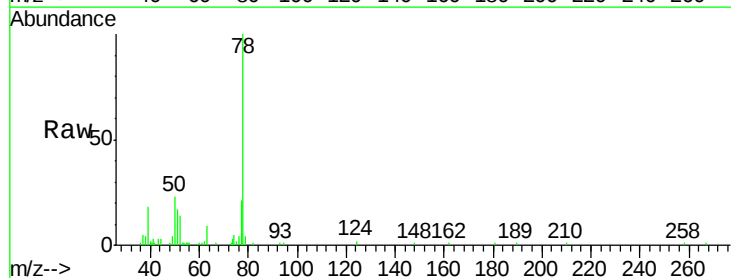
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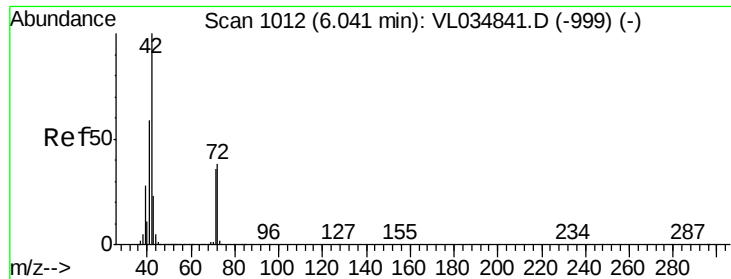
MMDadoda
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#36
Benzene
Concen: 0.302 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL034919.D
Acq: 17 Mar 2020 17:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.1	18.2	27.2
50	22.5	15.2	22.8





#41

Tetrahydrofuran

Concen: 3.813 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VL034919.D

Acq: 17 Mar 2020 17:24

Instrument :

MSVOA_L

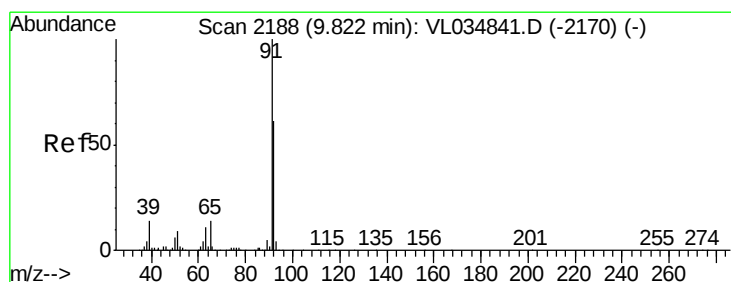
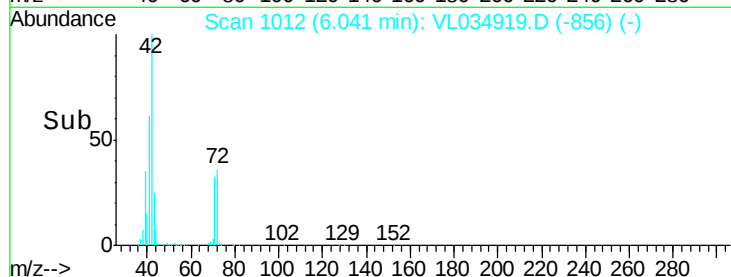
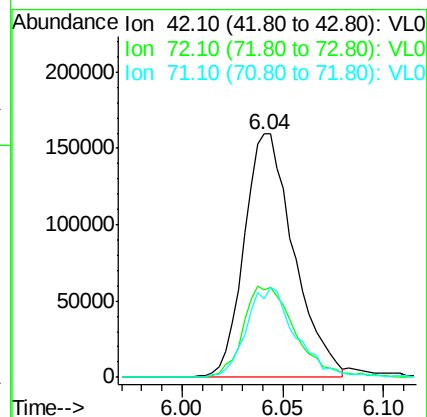
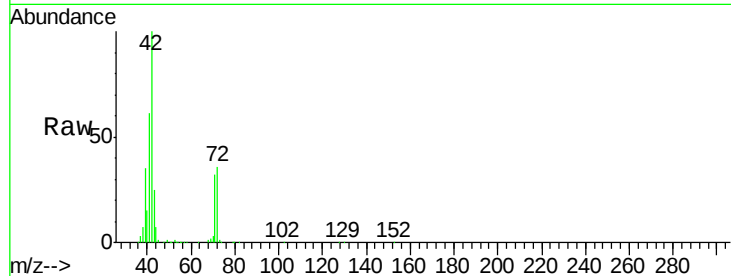
ClientSampleId :

IA-1

Tot Ion:	42	Resp:	275146
Ion	Ratio	Lower	Upper
42	100		
72	39.6	30.8	46.2
71	36.7	30.1	45.1

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#53

Toluene

Concen: 3.025 ppbv

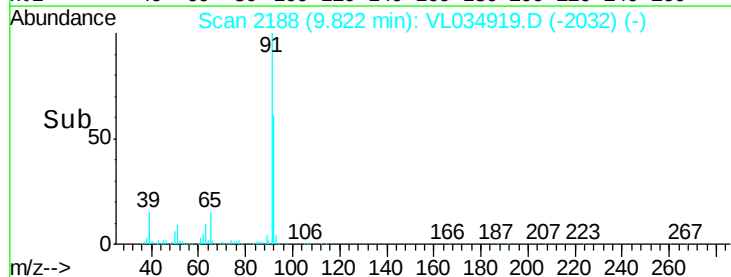
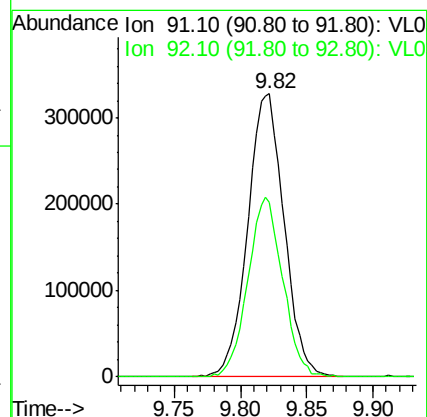
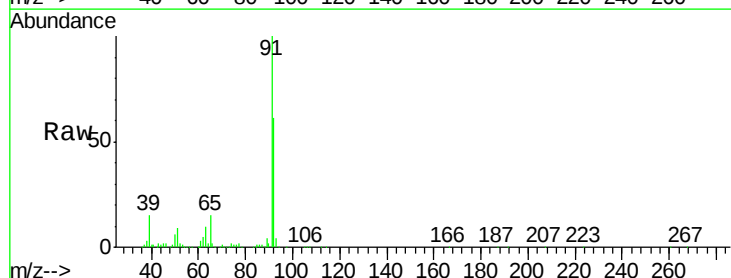
RT: 9.82 min Scan# 2188

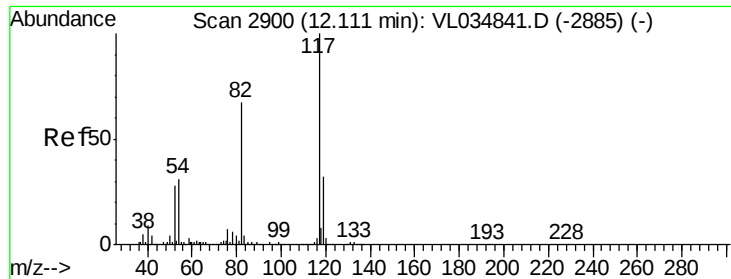
Delta R.T. 0.00 min

Lab File: VL034919.D

Acq: 17 Mar 2020 17:24

Tgt Ion:	91	Resp:	624889
Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.6	72.8





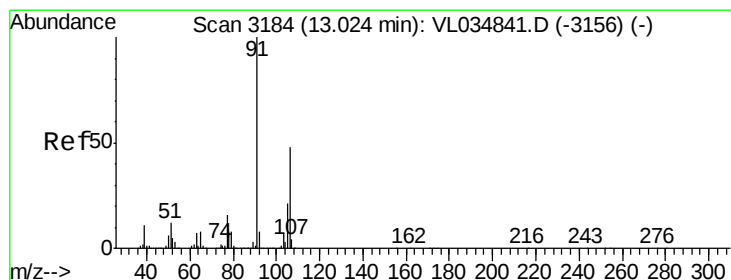
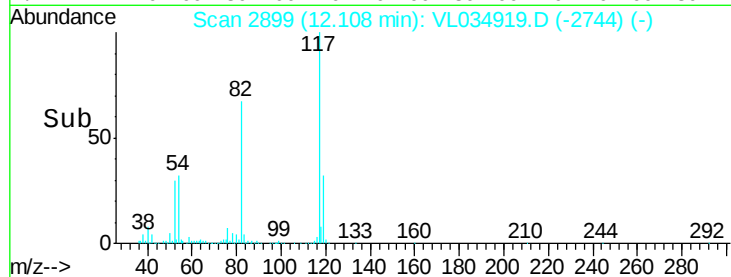
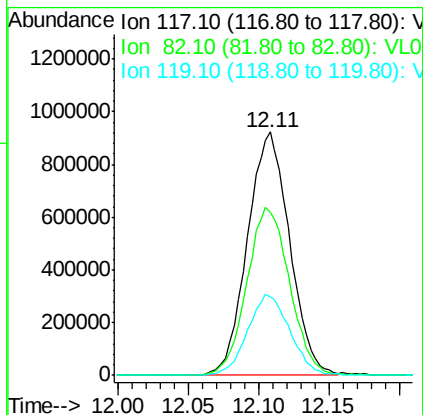
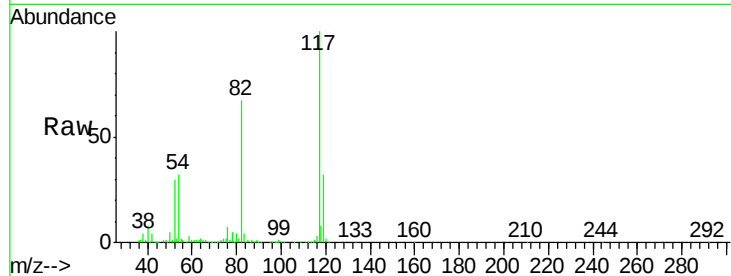
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL034919.D
Acq: 17 Mar 2020 17:24

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion:117 Resp: 1926509
Ion Ratio Lower Upper
117 100
82 70.4 51.1 76.7
119 33.6 27.3 40.9

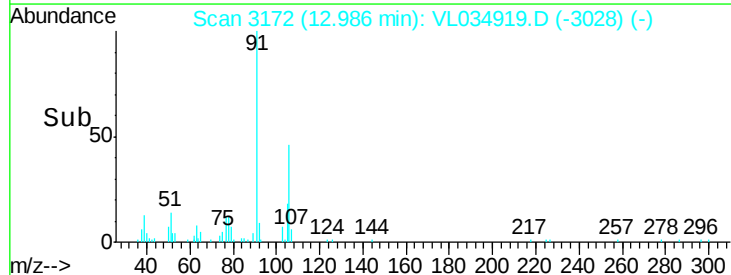
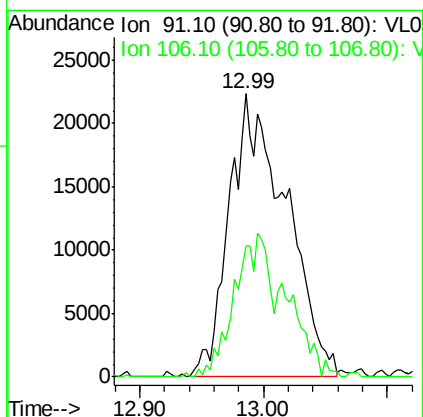
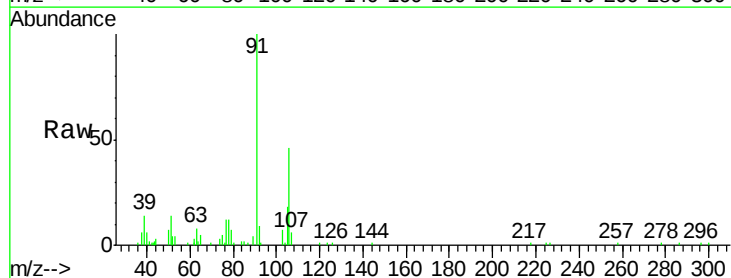
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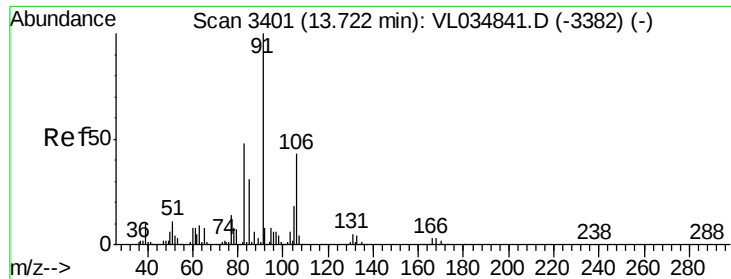
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#59
m/p-Xylene
Concen: 0.326 ppbv m
RT: 12.99 min Scan# 3172
Delta R.T. -0.04 min
Lab File: VL034919.D
Acq: 17 Mar 2020 17:24

Tgt Ion: 91 Resp: 71288
Ion Ratio Lower Upper
91 100
106 0.0 37.1 55.7#





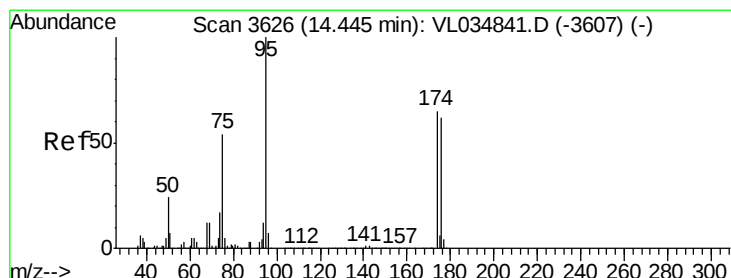
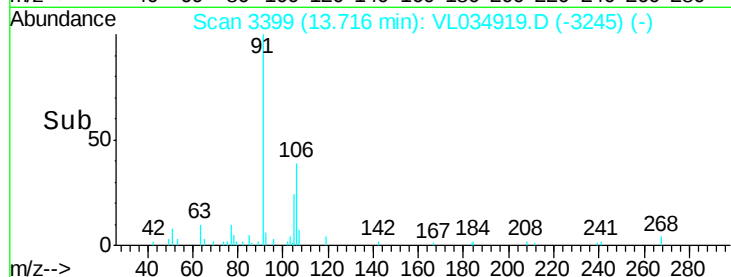
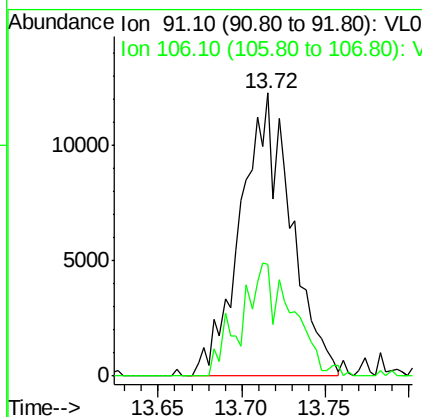
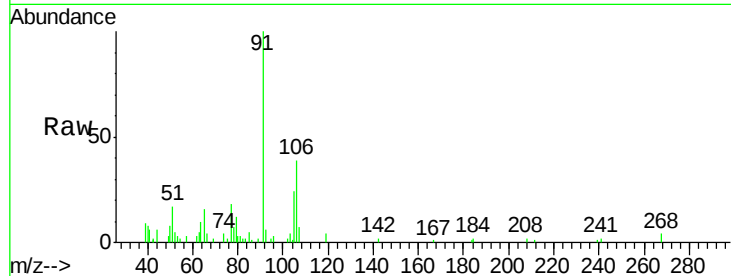
#60
o-Xylene
Concen: 0.120 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL034919.D
Acq: 17 Mar 2020 17:24

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion: 91 Resp: 25686
Ion Ratio Lower Upper
91 100
106 40.5 22.5 67.5

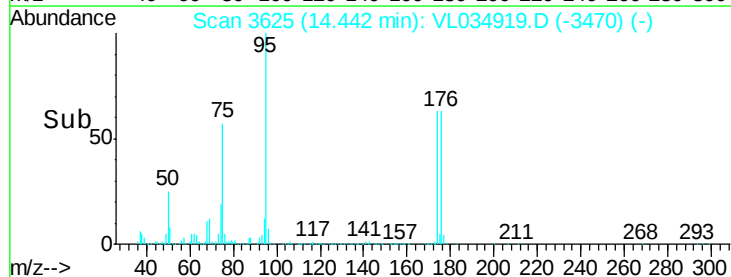
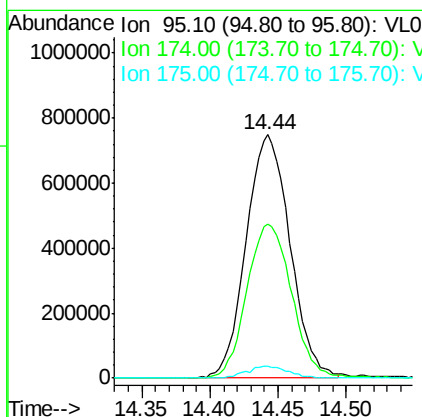
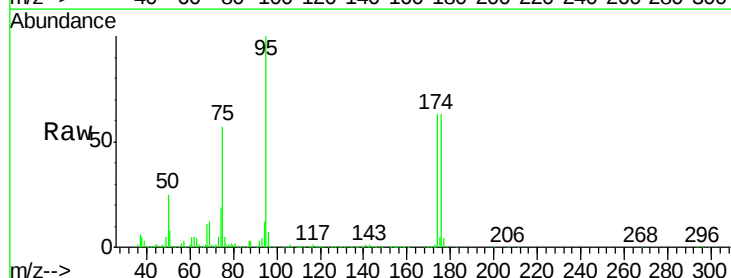
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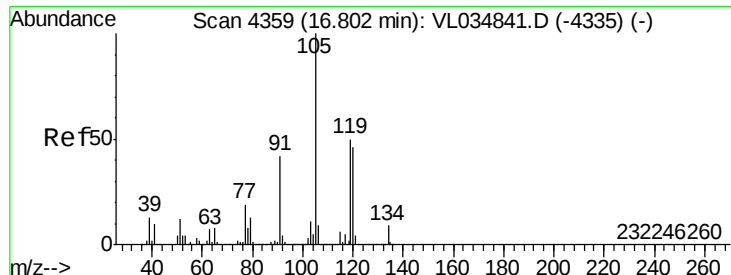
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#68
1-Bromo-4-Fluorobenzene
Concen: 11.138 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL034919.D
Acq: 17 Mar 2020 17:24

Tgt Ion: 95 Resp: 1673383
Ion Ratio Lower Upper
95 100
174 64.6 55.2 82.8
175 4.7 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.129 ppbv m
 RT: 16.79 min Scan# 4356
 Delta R.T. -0.01 min
 Lab File: VL034919.D
 Acq: 17 Mar 2020 17:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tot Ion:	105	Resp:	31443
Ion Ratio	Lower	Upper	
105	100		
120	26.7	37.0	55.4#
91	19.5	33.8	50.6#
77	15.1	15.4	23.0#

Manual Integrations
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