

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031720\
 Data File : VL034922.D
 Acq On : 17 Mar 2020 19:24
 Operator : SY/AP
 Sample : L1952-03DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Manual Integrations
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Quant Time: Mar 18 17:23:04 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	972804	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2068244	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1999525	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1729913	11.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	85450	0.641	ppbv	96
3) Chlorodifluoromethane	2.93	51	39948m	0.368	ppbv	
4) Chloromethane	3.10	50	35253m	0.574	ppbv	
9) Propene	2.98	41	66056m	1.273	ppbv	
11) Trichlorofluoromethane	3.92	101	34690	0.245	ppbv #	81
13) Ethanol	3.58	45	2886674	183.006	ppbv	95
15) Acetone	3.81	43	1692109	13.420	ppbv	99
19) Isopropyl Alcohol	3.95	45	194109	2.438	ppbv #	1
20) Methylene Chloride	4.31	84	116618	2.925	ppbv	93
26) Hexane	5.67	57	196165	2.028	ppbv #	56
34) 2-Butanone	5.22	43	380151	2.766	ppbv	99
35) Carbon Tetrachloride	7.01	117	9720m	0.076	ppbv	
36) Benzene	6.89	78	59471	0.323	ppbv	96
37) 1,2-Dichloroethane	6.30	62	93957	0.904	ppbv	98
41) Tetrahydrofuran	6.04	42	117977	1.586	ppbv	98
53) Toluene	9.82	91	376949	1.771	ppbv	99
59) m/p-Xylene	12.99	91	74807m	0.330	ppbv	
60) o-Xylene	13.72	91	32008m	0.145	ppbv	

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

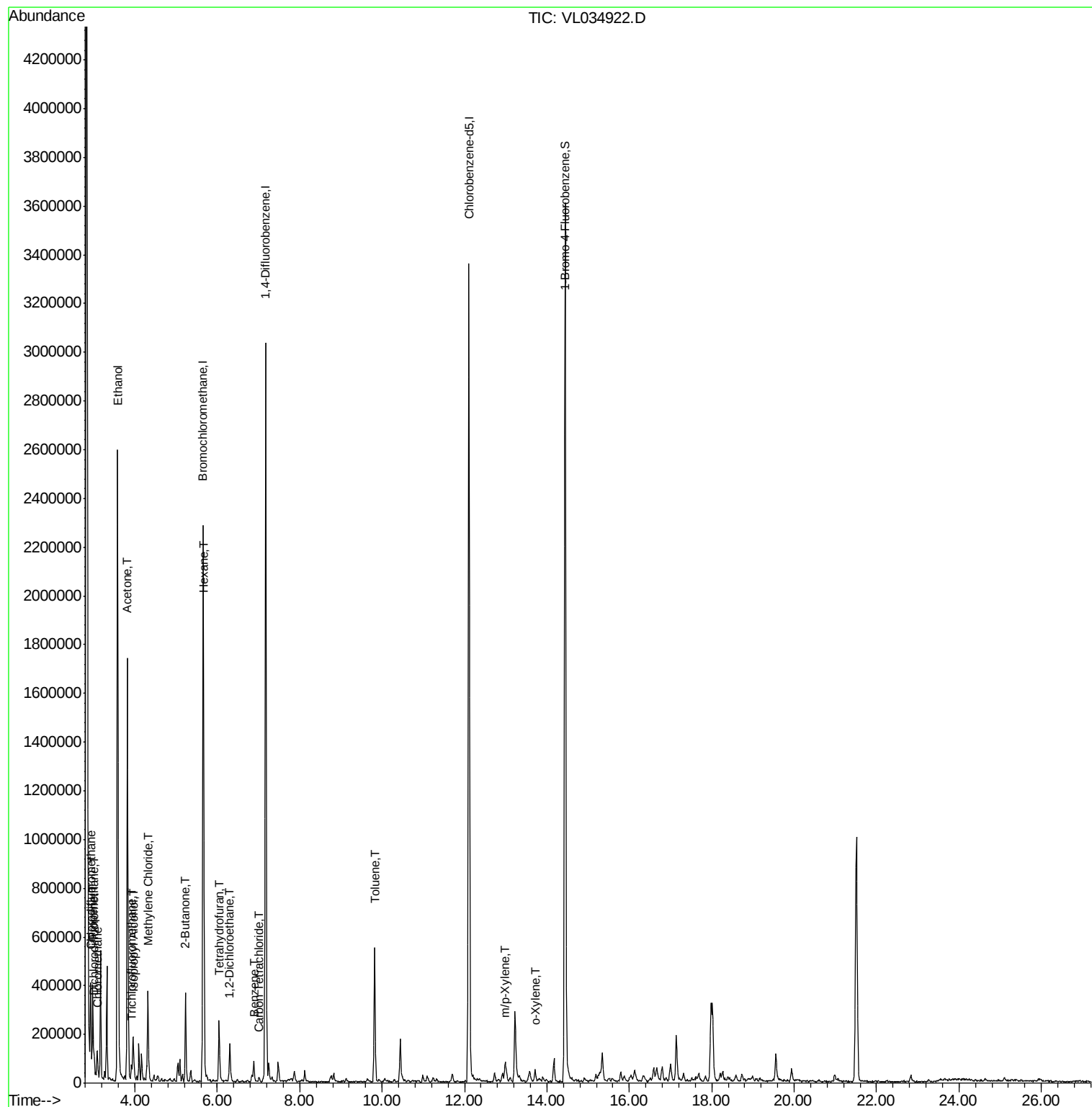
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031720\
Data File : VL034922.D
Acq On : 17 Mar 2020 19:24
Operator : SY/AP
Sample : L1952-03DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

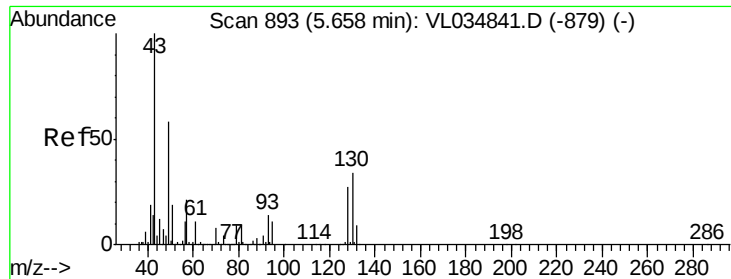
Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Manual Integrations
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Quant Time: Mar 18 17:23:04 2020
Quant Method : Z:\VOASRV\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

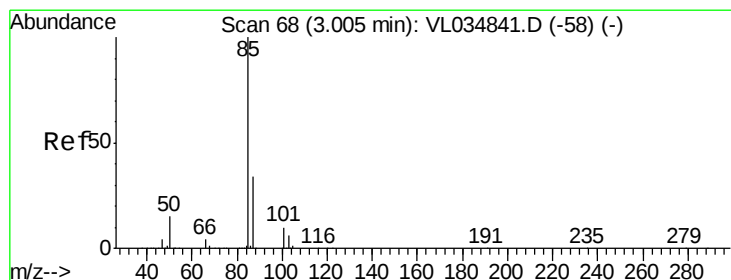
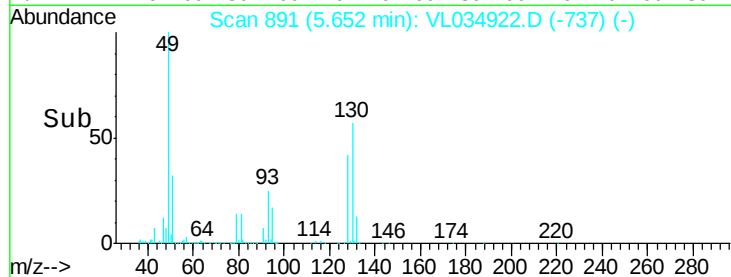
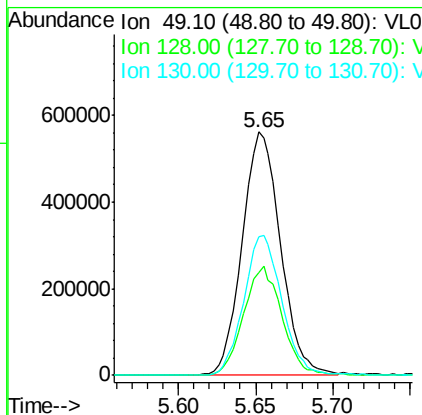
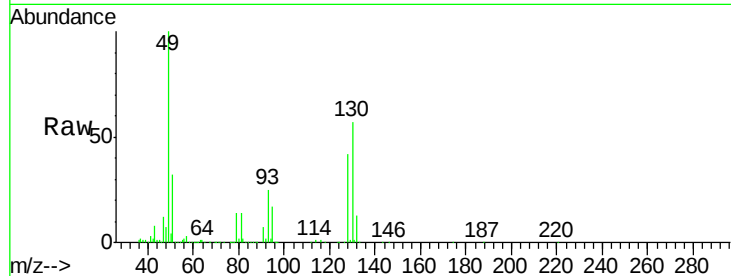
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. -0.01 min
 Lab File: VL034922.D
 Acq: 17 Mar 2020 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	44.9	23.4	70.3
130	57.3	30.0	90.0

Manual Integrations
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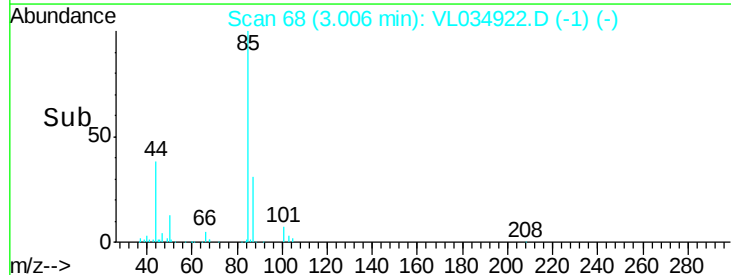
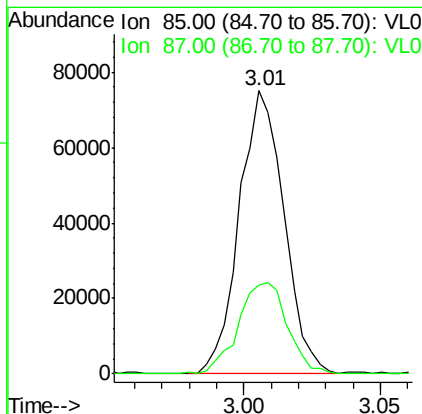
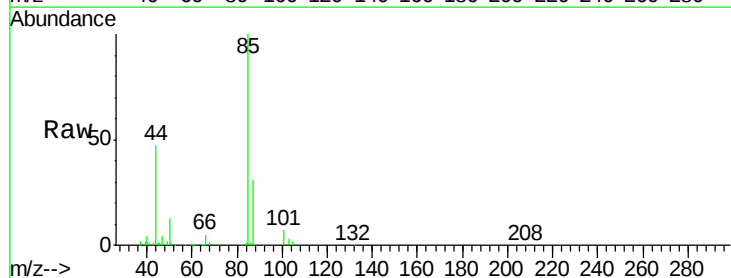
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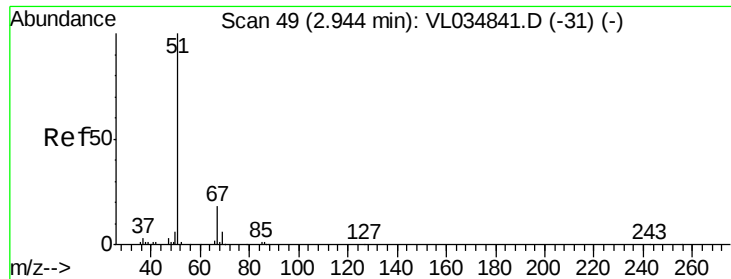


#2

Dichlorodifluoromethane
 Concen: 0.641 ppbv
 RT: 3.01 min Scan# 68
 Delta R.T. 0.00 min
 Lab File: VL034922.D
 Acq: 17 Mar 2020 19:24

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.5	26.9	40.3





#3

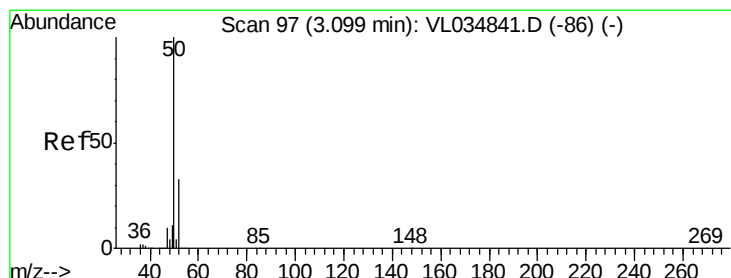
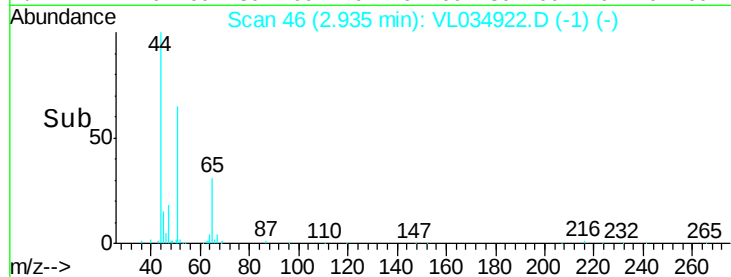
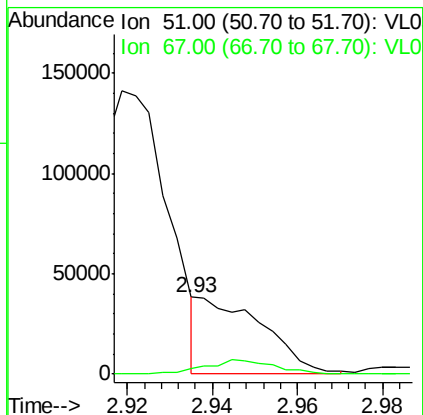
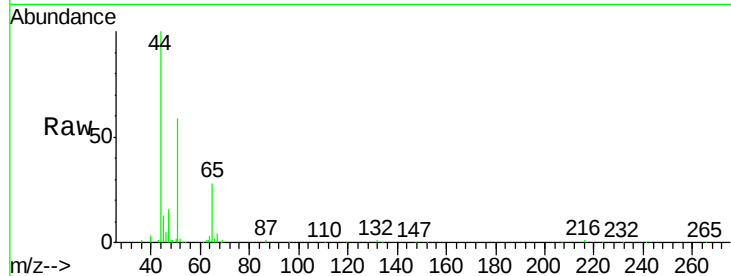
Chlorodifluoromethane
 Concen: 0.368 ppbv m
 RT: 2.93 min Scan# 46
 Delta R.T. -0.01 min
 Lab File: VL034922.D
 Acq: 17 Mar 2020 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Tot Ion	Ratio	Lower	Upper
51	100		
67	21.0	14.3	21.5

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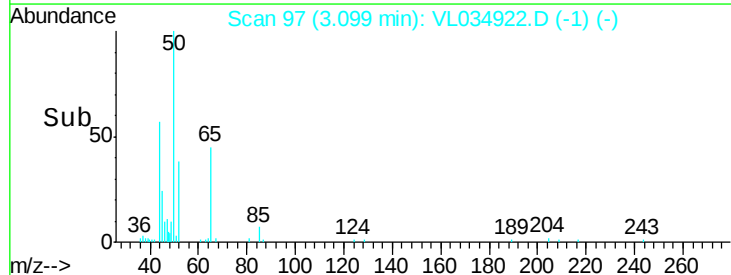
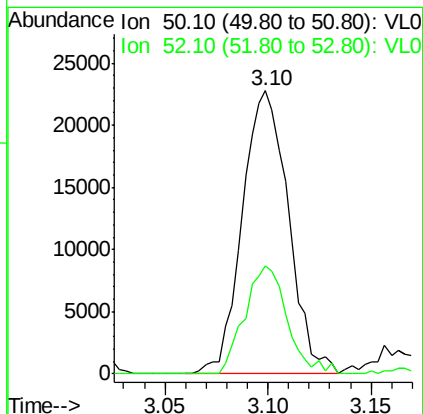
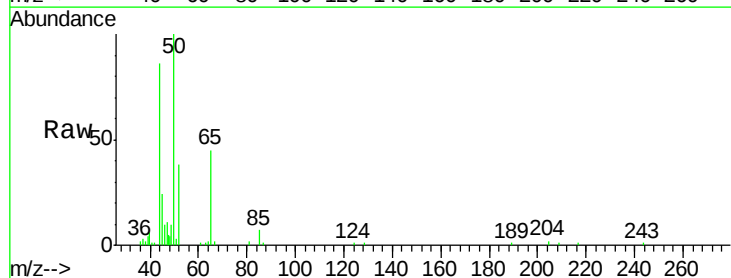
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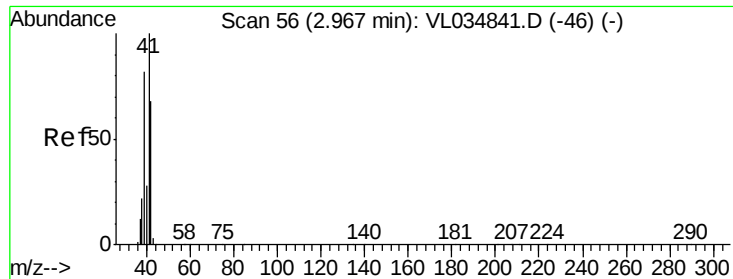


#4

Chloromethane
 Concen: 0.574 ppbv m
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL034922.D
 Acq: 17 Mar 2020 19:24

Tgt Ion	Ratio	Lower	Upper
50	100		
52	38.1	26.8	40.2





#9

Propene

Concen: 1.273 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034922.D

Acq: 17 Mar 2020 19:24

Instrument :

MSVOA_L

ClientSampled :

IA-2DUP

Tot Ion: 41 Resp: 66056

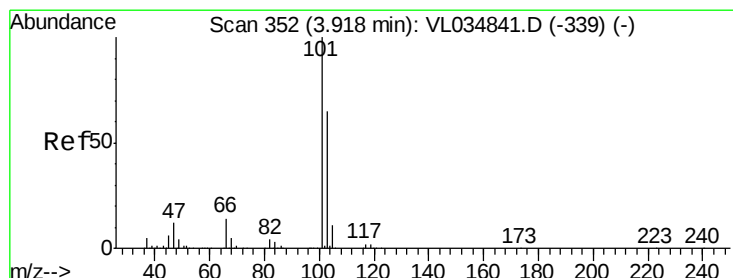
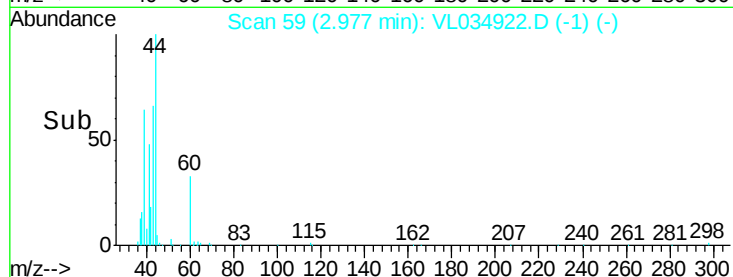
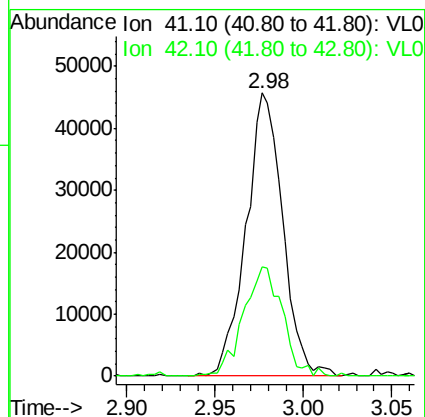
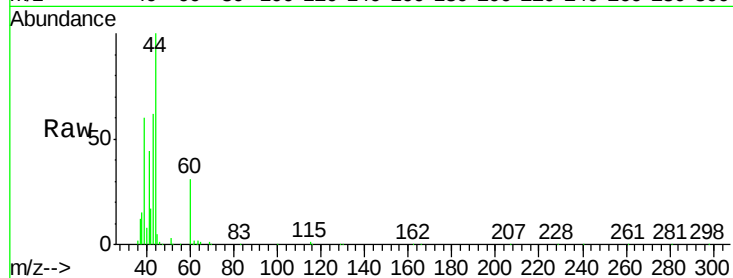
Ion Ratio Lower Upper

41 100

42 127.9 55.2 82.8#

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#11

Trichlorofluoromethane

Concen: 0.245 ppbv

RT: 3.92 min Scan# 352

Delta R.T. 0.00 min

Lab File: VL034922.D

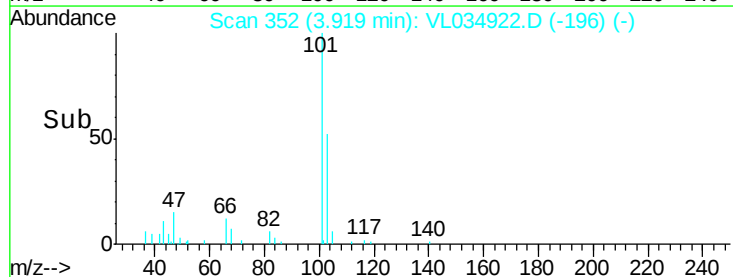
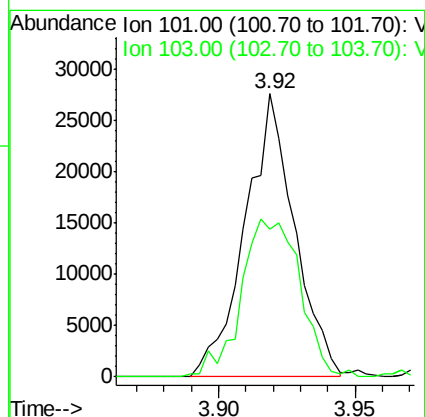
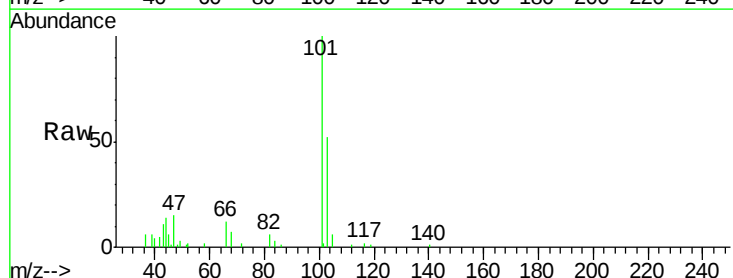
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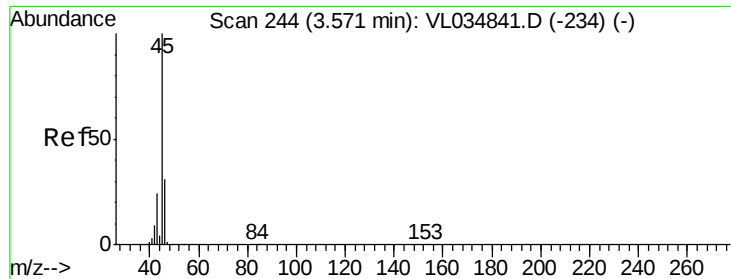
Tgt Ion: 101 Resp: 34690

Ion Ratio Lower Upper

101 100

103 50.1 51.8 77.8#





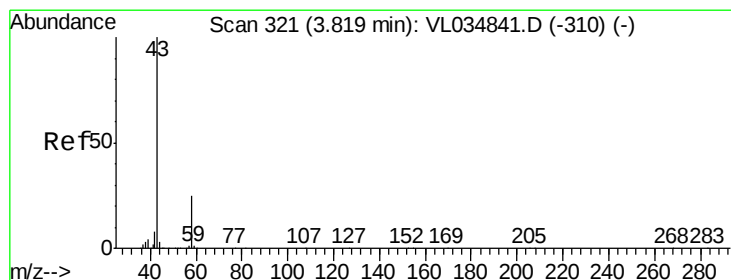
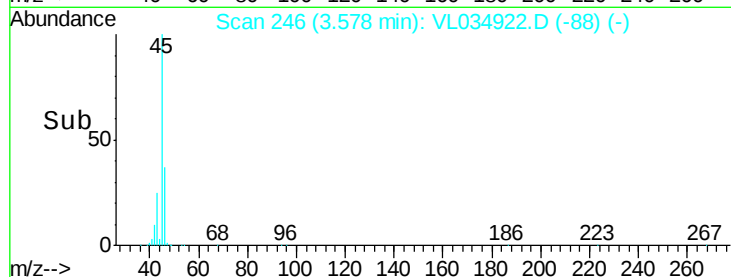
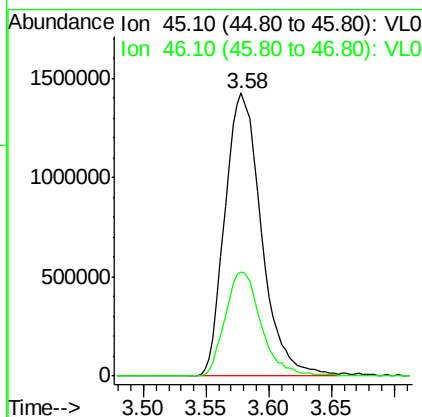
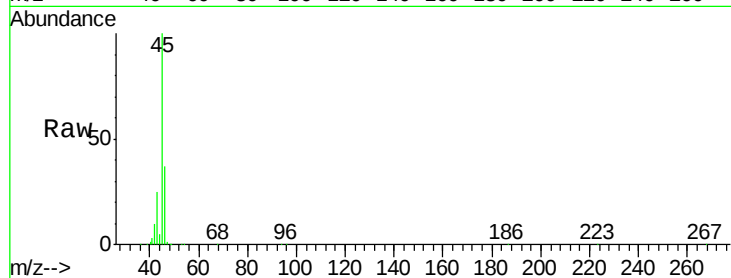
#13
Ethanol
Concen: 183.006 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.01 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion: 45 Resp: 2886674
Ion Ratio Lower Upper
45 100
46 36.8 16.0 64.0

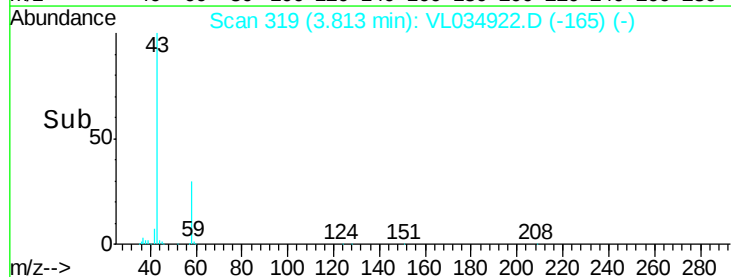
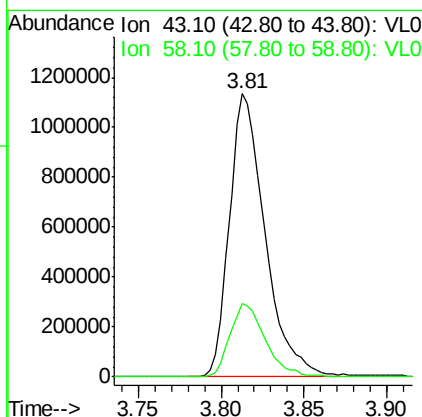
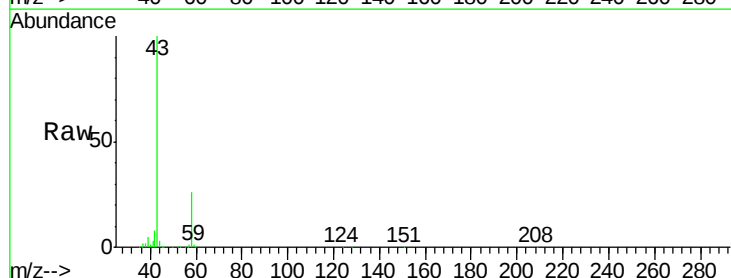
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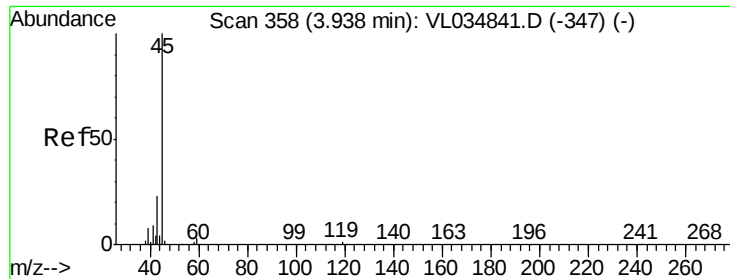
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#15
Acetone
Concen: 13.420 ppbv
RT: 3.81 min Scan# 319
Delta R.T. -0.01 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Tgt Ion: 43 Resp: 1692109
Ion Ratio Lower Upper
43 100
58 26.0 21.0 31.6





#19

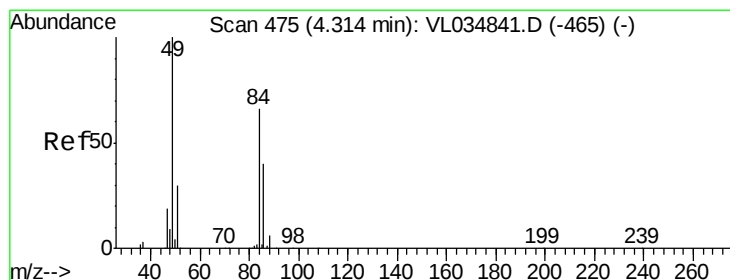
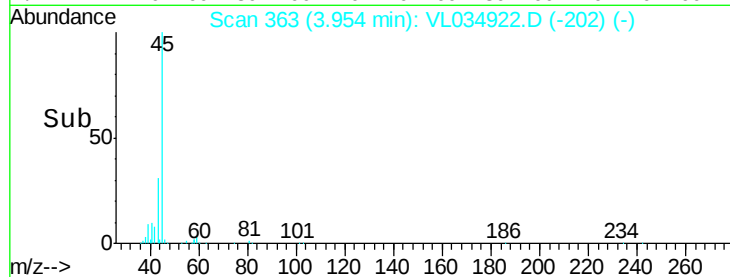
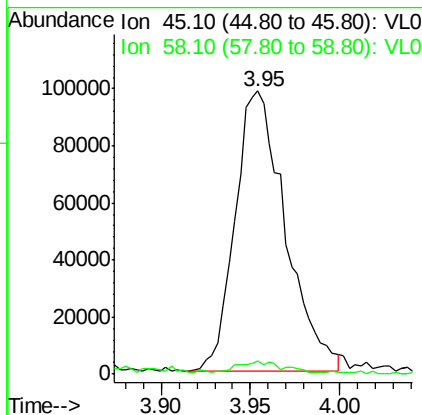
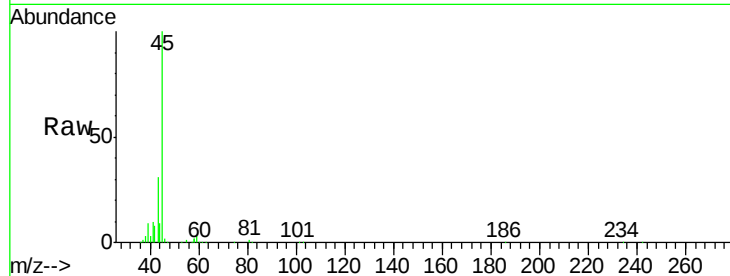
Isopropyl Alcohol
 Concen: 2.438 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.02 min
 Lab File: VL034922.D
 Acq: 17 Mar 2020 19:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DUP

Tot Ion: 45 Resp: 194109
 Ion Ratio Lower Upper
 45 100
 58 225.0 30.5 45.7#

Manual Integrations
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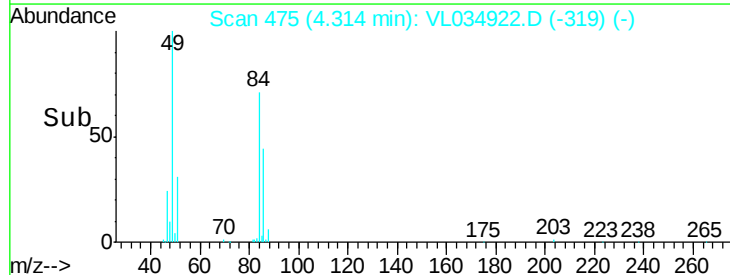
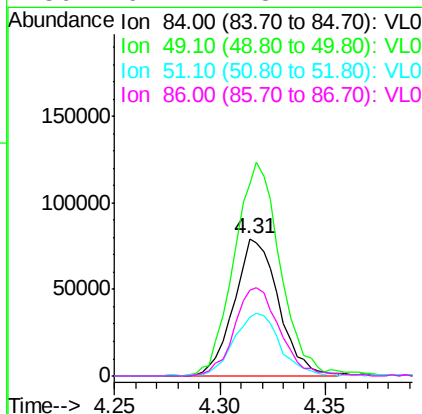
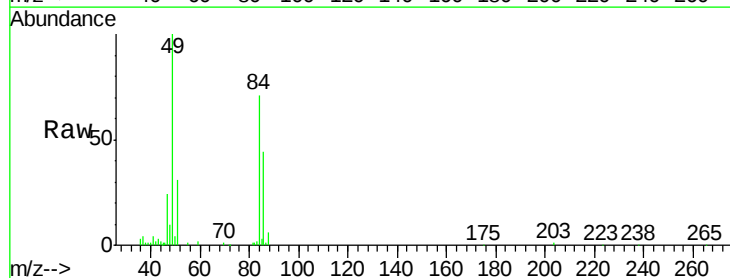
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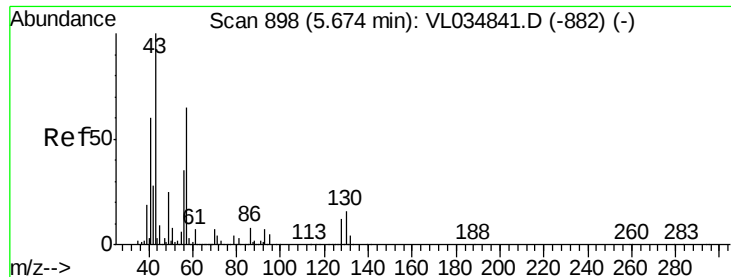


#20

Methylene Chloride
 Concen: 2.925 ppbv
 RT: 4.31 min Scan# 475
 Delta R.T. 0.00 min
 Lab File: VL034922.D
 Acq: 17 Mar 2020 19:24

Tgt Ion: 84 Resp: 116618
 Ion Ratio Lower Upper
 84 100
 49 139.7 121.5 182.3
 51 42.5 36.6 55.0
 86 62.1 48.2 72.2





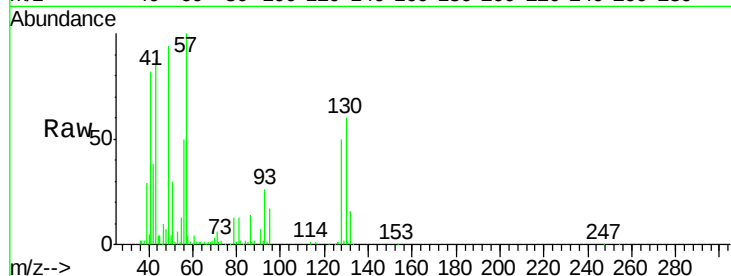
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Hexane
Concen: 2.028 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Instrument :
MSVOA_L
ClientSampled :
IA-2DUP

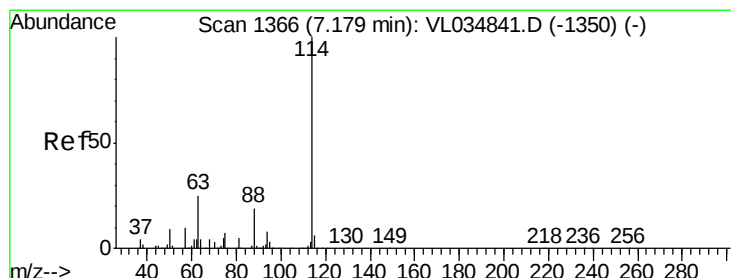
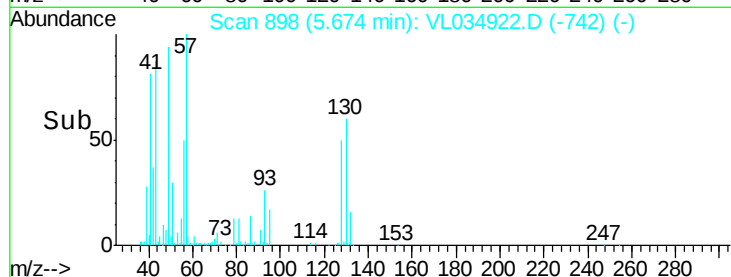
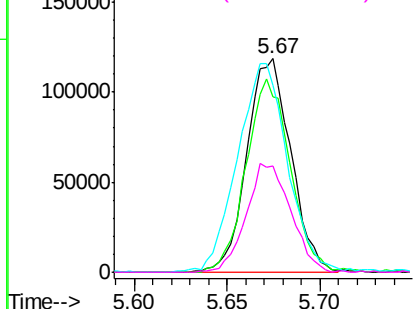
Tot Ion	57	Resp	196165
Ion	Ratio	Lower	Upper
57	100		
41	91.7	72.6	109.0
43	113.4	183.8	275.6#
56	51.7	41.9	62.9

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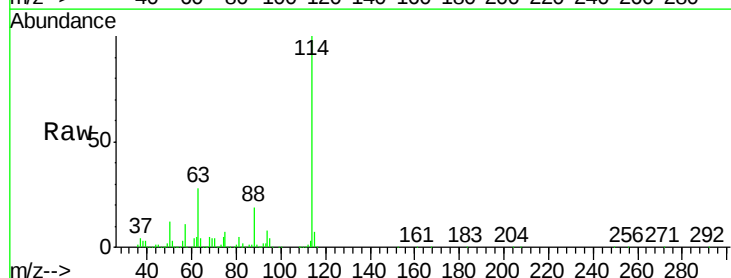


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

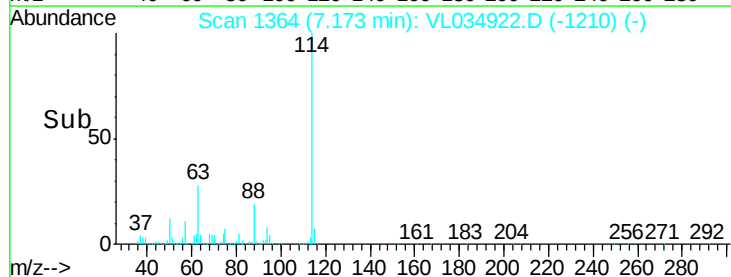
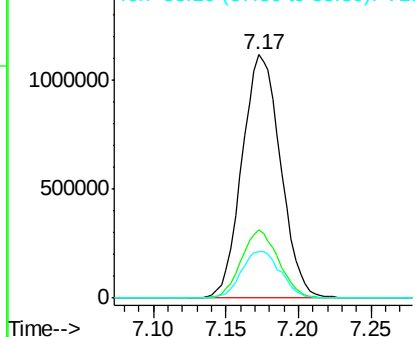


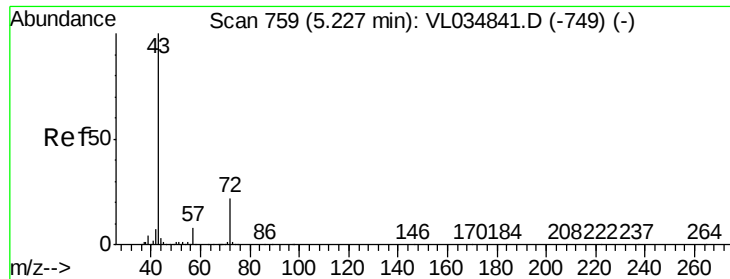
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Tgt Ion	114	Resp	2068244
Ion	Ratio	Lower	Upper
114	100		
63	27.2	20.6	31.0
88	19.5	15.0	22.6



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





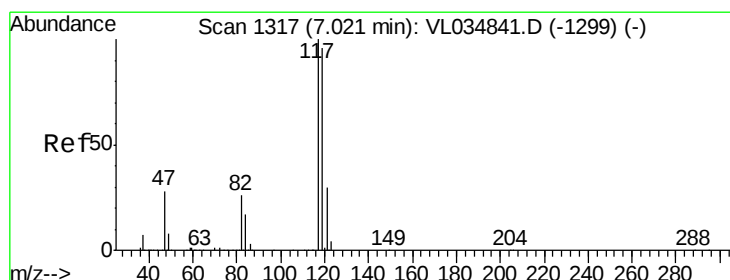
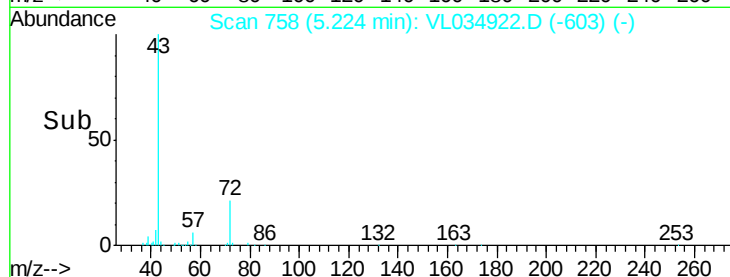
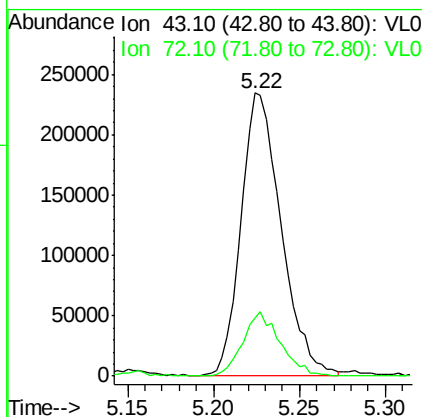
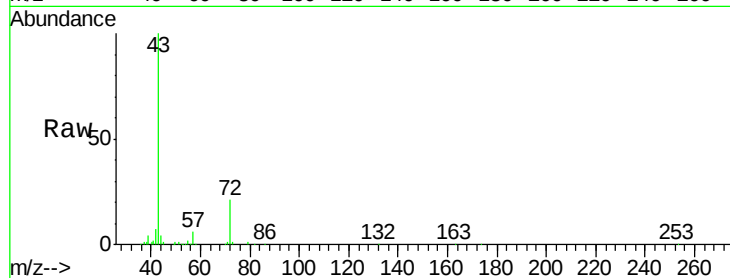
#34
2-Butanone
Concen: 2.766 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.00 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion	43	Resp	380151
Ion Ratio	100	Lower	Upper
72	21.5	17.6	26.4

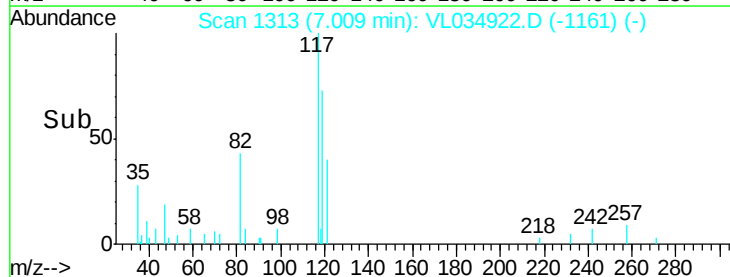
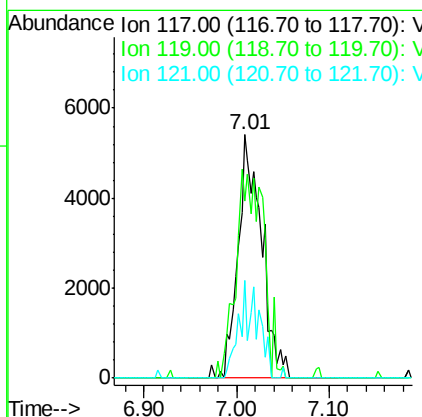
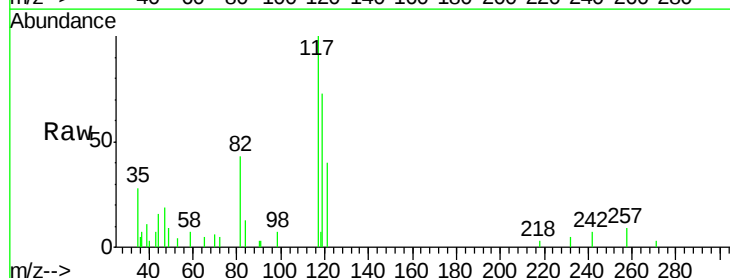
Manual Integrations
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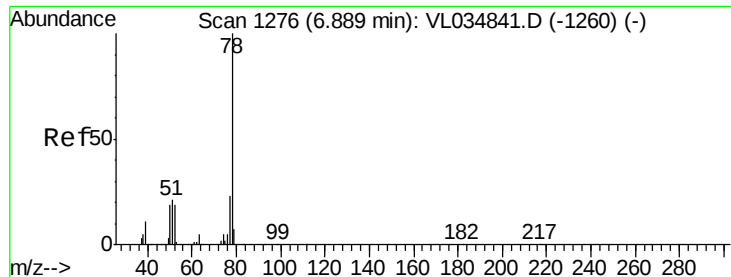
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#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. -0.01 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Tgt Ion	117	Resp	9720
Ion Ratio	100	Lower	Upper
119	72.6	77.0	115.4#
121	40.1	24.0	36.0#





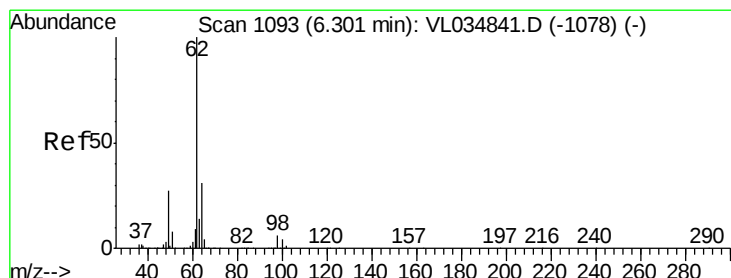
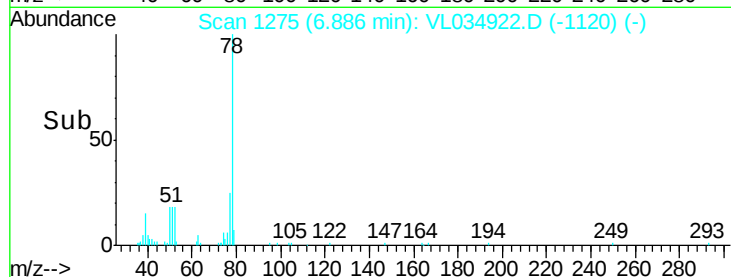
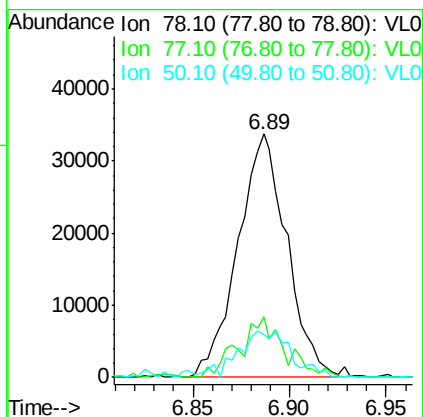
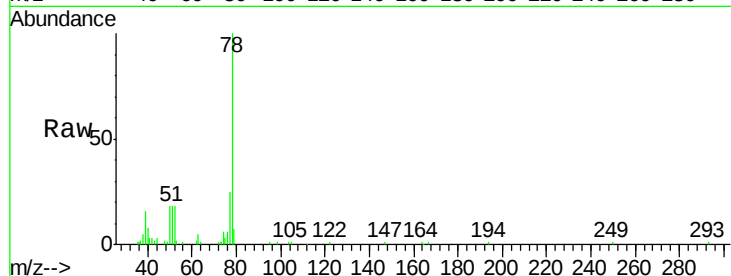
#36
Benzene
Concen: 0.323 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.00 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.2	27.2
50	17.7	15.2	22.8

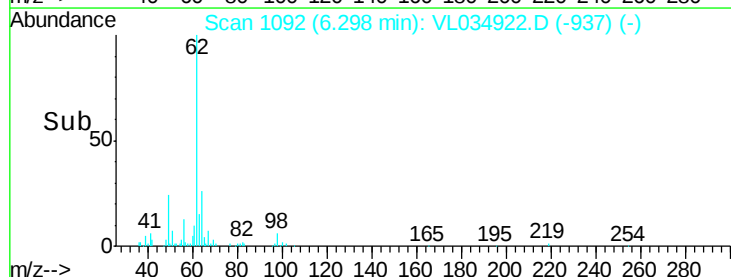
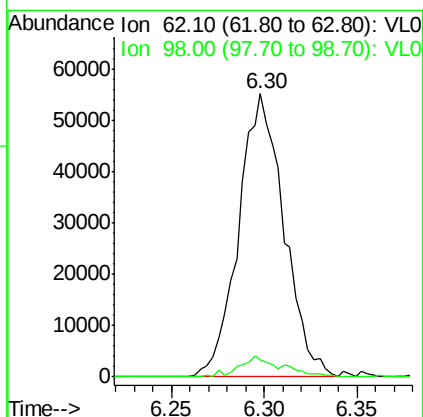
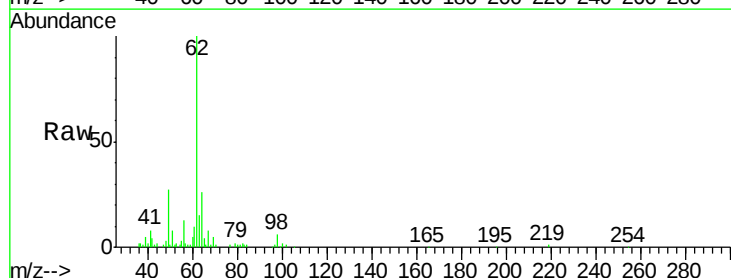
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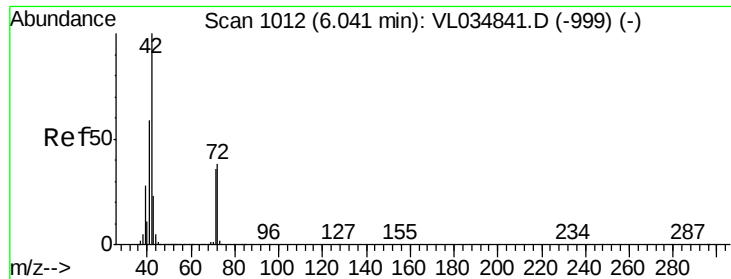
MMDadoda
3/18/2020 5:35:52 PM



#37
1,2-Dichloroethane
Concen: 0.904 ppbv
RT: 6.30 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.0	5.2	7.8





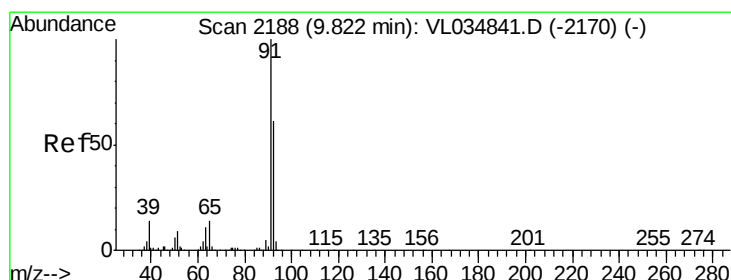
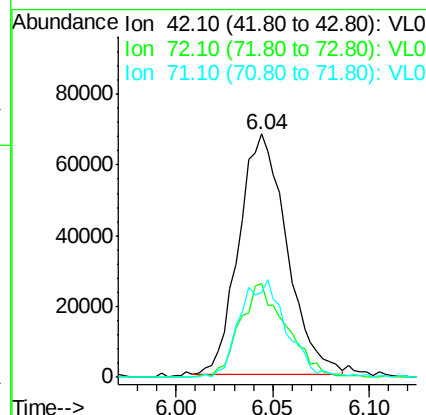
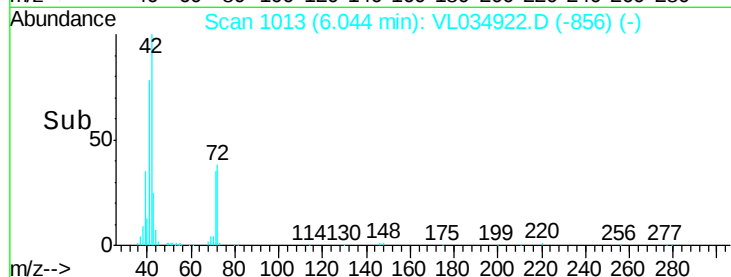
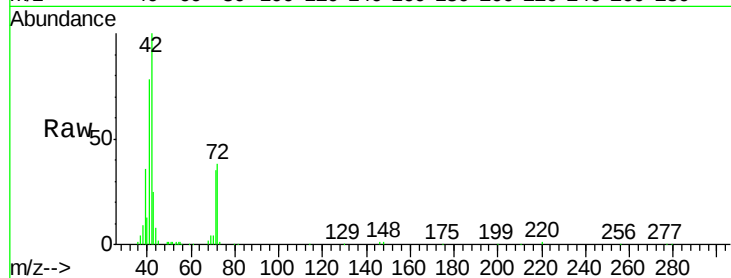
#41
Tetrahydrofuran
Concen: 1.586 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.7	30.8	46.2
71	39.6	30.1	45.1

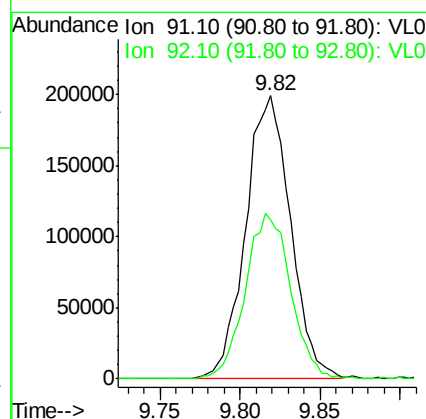
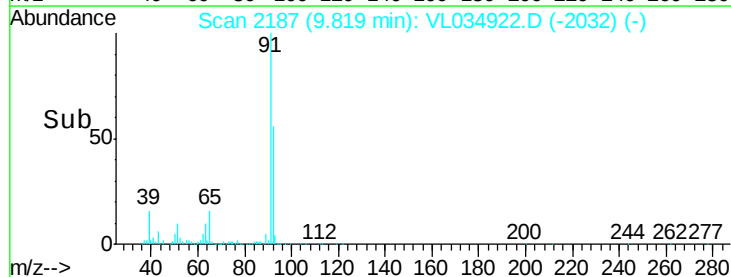
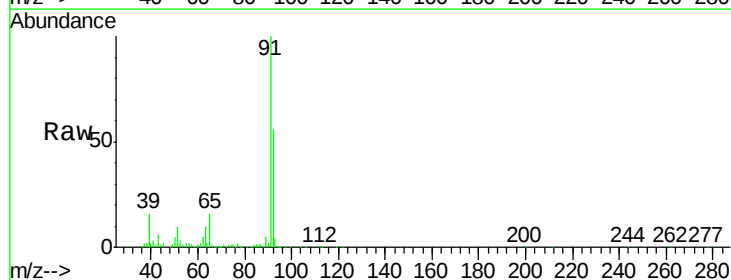
Manual Integrations
APPROVED

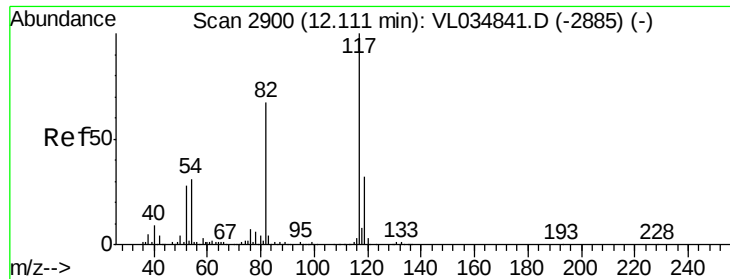
MMDadoda
3/18/2020 5:35:52 PM



#53
Toluene
Concen: 1.771 ppbv
RT: 9.82 min Scan# 2187
Delta R.T. -0.00 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.6	72.8





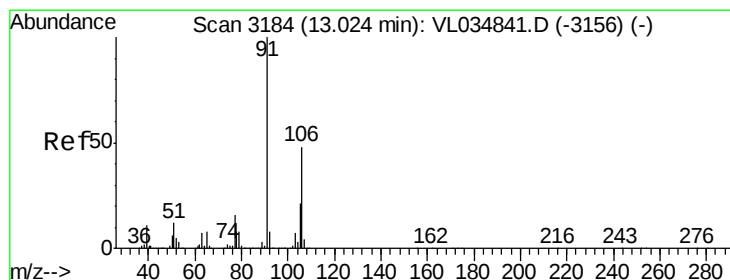
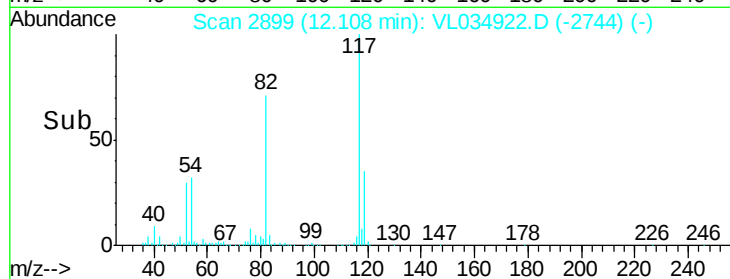
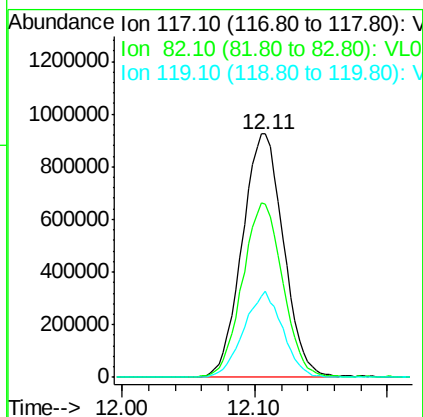
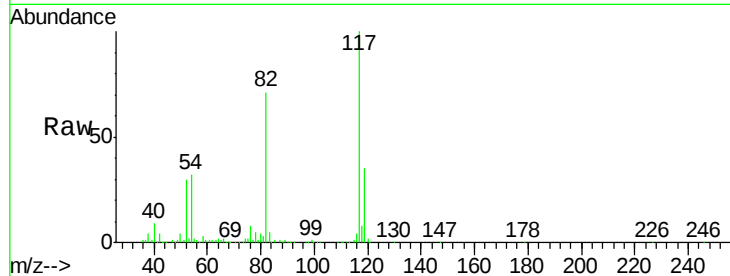
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.8	51.1	76.7
119	33.6	27.3	40.9

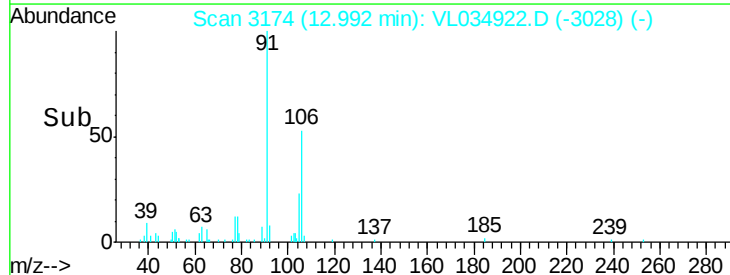
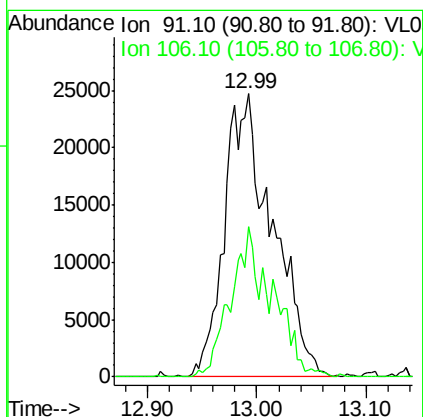
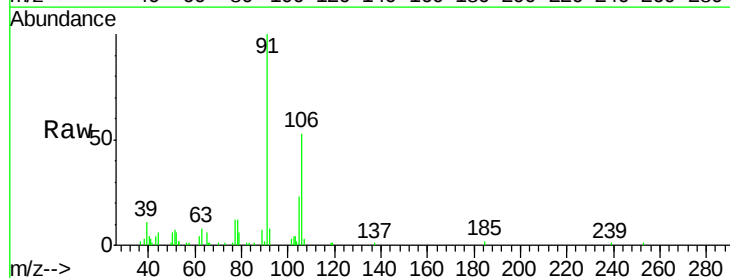
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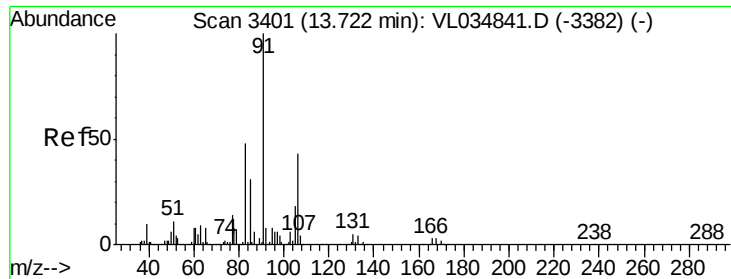
MMDadoda
3/18/2020 5:35:52 PM



#59
m/p-Xylene
Concen: 0.330 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

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





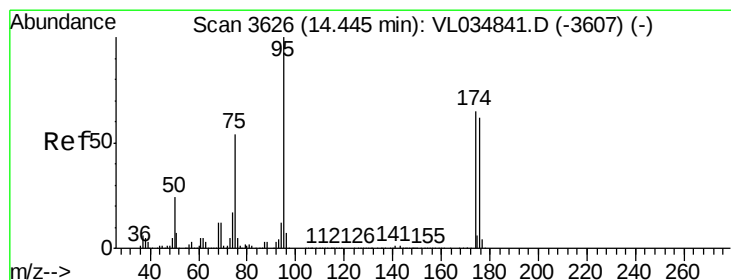
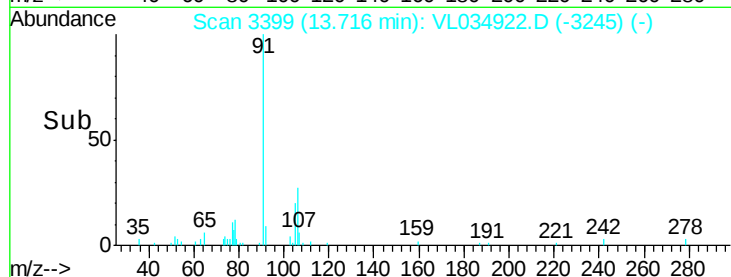
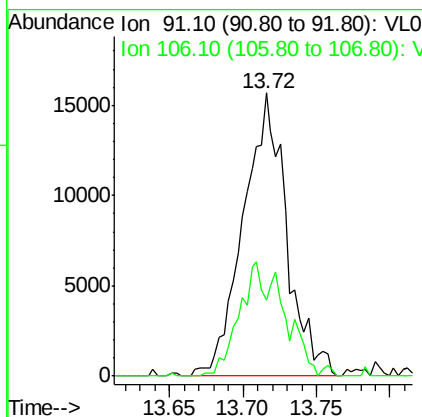
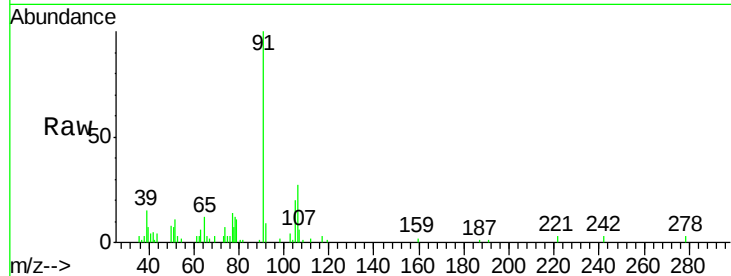
#60
o-Xylene
Concen: 0.145 ppbv m
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Instrument :
MSVOA_L
ClientSampleId :
IA-2DUP

Tot Ion: 91 Resp: 32008
Ion Ratio Lower Upper
91 100
106 41.9 22.5 67.5

Manual Integrations
APPROVED

MMDadoda
3/18/2020 5:35:52 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 11.094 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.00 min
Lab File: VL034922.D
Acq: 17 Mar 2020 19:24

Tgt Ion: 95 Resp: 1729913
Ion Ratio Lower Upper
95 100
174 65.0 55.2 82.8
175 4.7 4.3 6.5

