

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033340.D
 Acq On : 15 Mar 2019 21:00
 Operator : SY/AP
 Sample : K1827-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:59:41 AM

Quant Time: Mar 21 12:27:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	689874	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1599893	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	1693494	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1274926	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	32869	0.271	ppbv	99
3) Chlorodifluoromethane	3.01	51	93666m	1.183	ppbv	
4) Chloromethane	3.17	50	25552	0.596	ppbv	90
9) Propene	3.05	41	72553m	2.053	ppbv	
10) Heptane	8.25	43	208311	2.376	ppbv	100
11) Trichlorofluoromethane	4.01	101	33268m	0.275	ppbv	
13) Ethanol	3.66	45	2126112	126.173	ppbv	98
15) Acetone	3.90	43	1120387	10.447	ppbv	98
19) Isopropyl Alcohol	4.04	45	745802	14.620	ppbv #	99
20) Methylene Chloride	4.41	84	72190	2.064	ppbv	96
25) Ethyl Acetate	5.77	43	328319	2.106	ppbv	98
26) Hexane	5.79	57	160672	2.305	ppbv	90
34) 2-Butanone	5.34	43	85710	0.816	ppbv	98
35) Carbon Tetrachloride	7.13	117	9034m	0.080	ppbv	
36) Benzene	7.00	78	39580	0.276	ppbv	97
50) 4-Methyl-2-Pentanone	8.88	43	107496	0.724	ppbv	97
52) Tetrachloroethene	11.38	164	6380m	0.107	ppbv	
53) Toluene	9.95	91	2908379	17.876	ppbv	100
58) Ethyl Benzene	12.87	91	82629	0.345	ppbv	98
59) m/p-Xylene	13.13	91	82719m	0.402	ppbv	
60) o-Xylene	13.86	91	29191	0.145	ppbv	93
74) 1,2,4-Trimethylbenzene	16.93	105	61794m	0.263	ppbv	

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

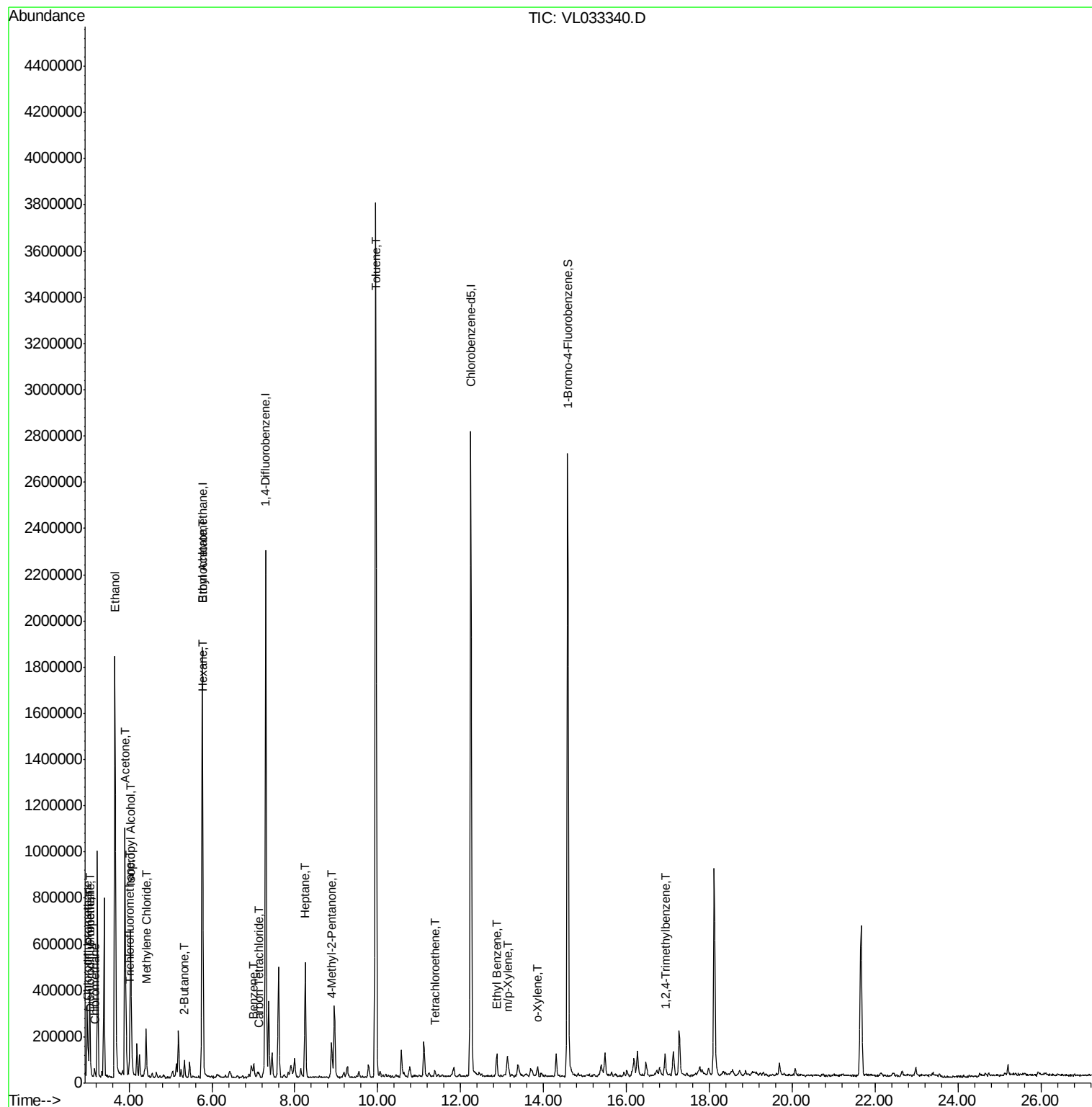
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
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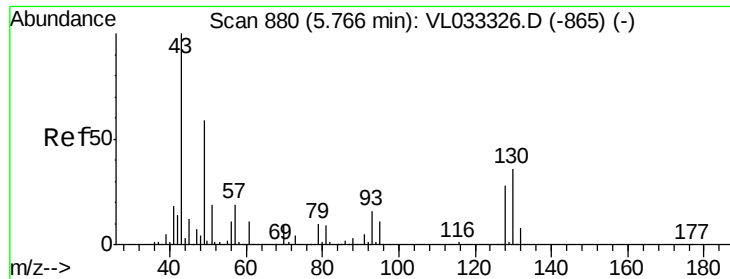
Instrument :
MSVOA_L
ClientSampleId :
A-1

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Quant Time: Mar 21 12:27:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033340.D

Acq: 15 Mar 2019 21:00

Instrument :

MSVOA_L

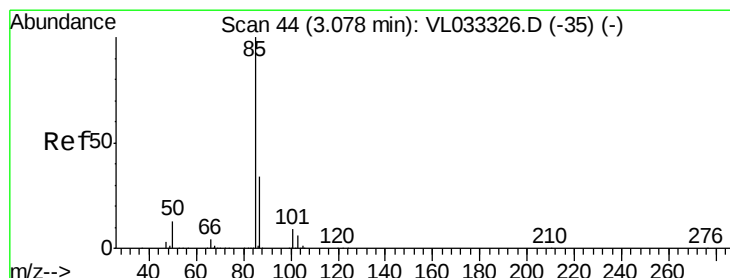
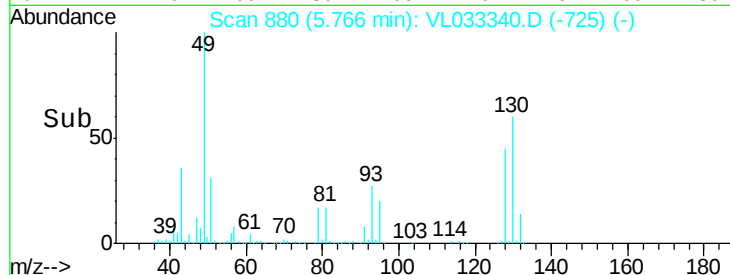
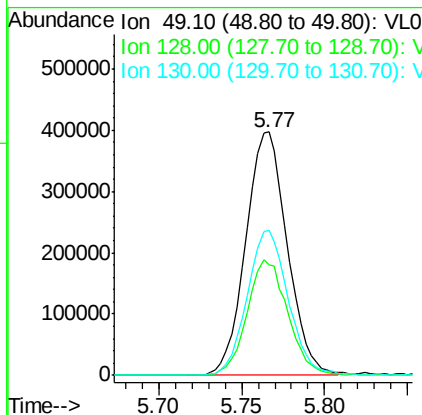
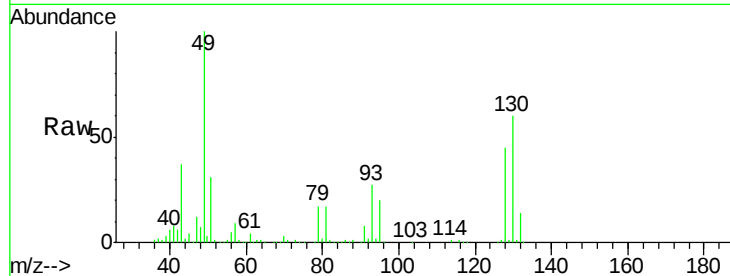
ClientSampled :

A-1

Tot Ion:	49	Resp:	689874
Ion	Ratio	Lower	Upper
49	100		
128	46.7	23.5	70.6
130	59.3	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 0.271 ppbv

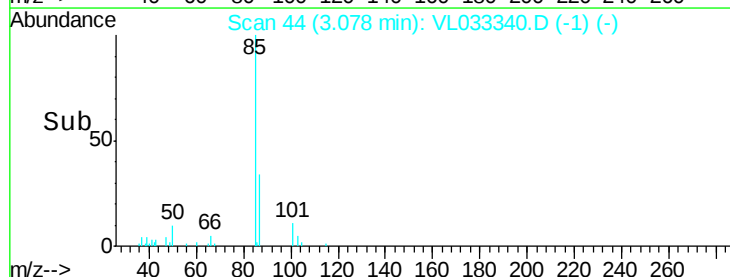
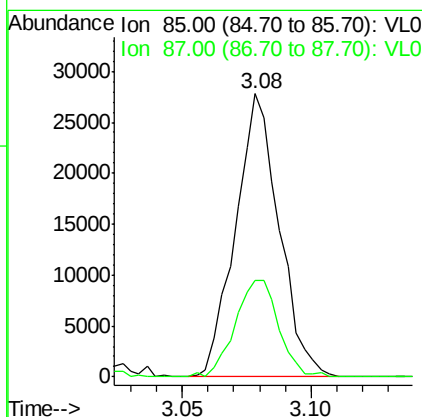
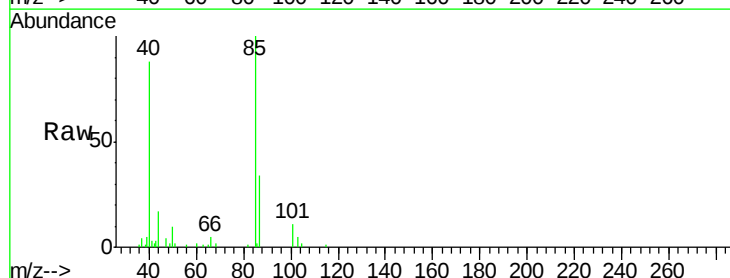
RT: 3.08 min Scan# 44

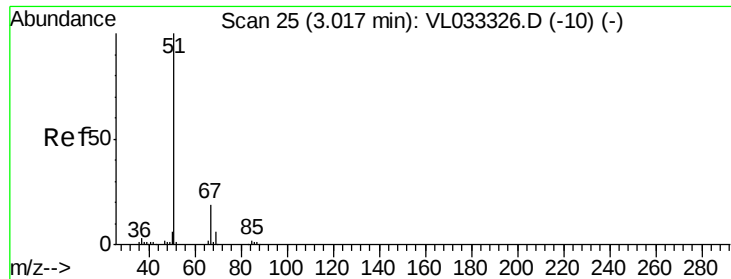
Delta R.T. -0.00 min

Lab File: VL033340.D

Acq: 15 Mar 2019 21:00

Tgt Ion:	85	Resp:	32869
Ion	Ratio	Lower	Upper
85	100		
87	34.3	26.9	40.3





#3

Chlorodifluoromethane

Concen: 1.183 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033340.D

Acq: 15 Mar 2019 21:00

Instrument :

MSVOA_L

ClientSampled :

A-1

Tot Ion: 51 Resp: 93666

Ion Ratio Lower Upper

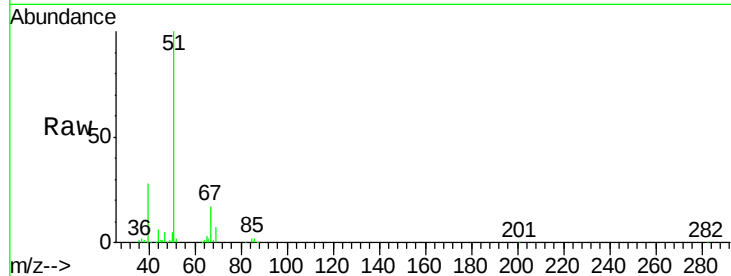
51 100

67 21.5 14.9 22.3

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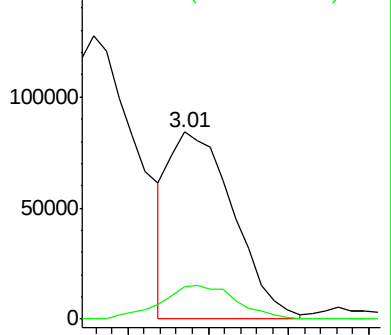
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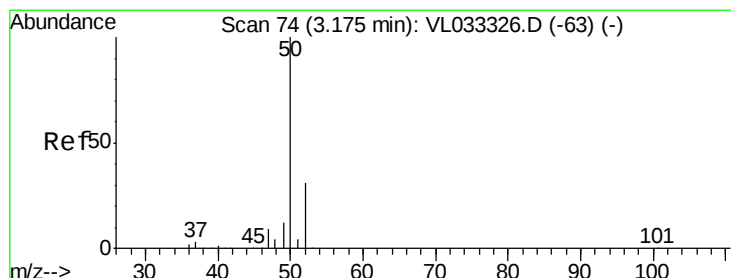
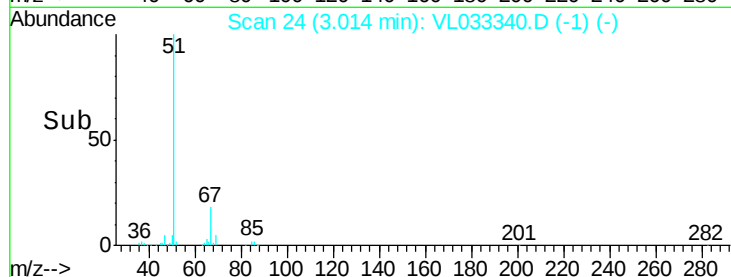


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.596 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033340.D

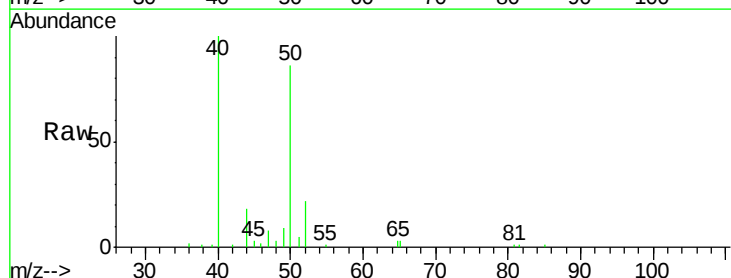
Acq: 15 Mar 2019 21:00

Tgt Ion: 50 Resp: 25552

Ion Ratio Lower Upper

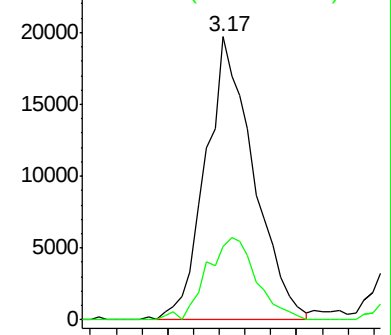
50 100

52 25.8 25.0 37.6

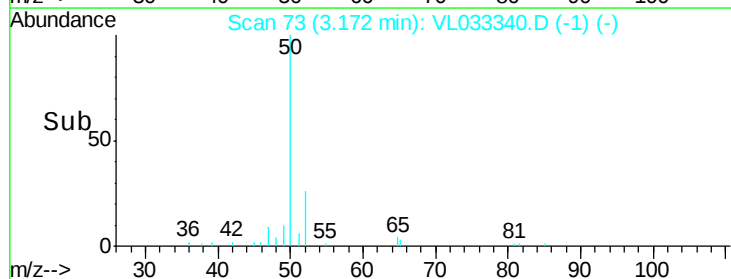


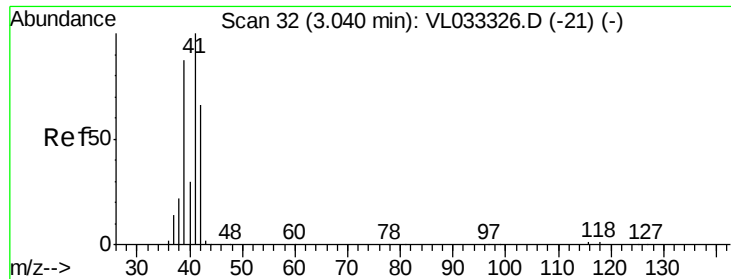
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#9

Propene

Concen: 2.053 ppbv m

RT: 3.05 min Scan# 36

Delta R.T. 0.01 min

Lab File: VL033340.D

Acq: 15 Mar 2019 21:00

Instrument :

MSVOA_L

ClientSampled :

A-1

Tot Ion: 41 Resp: 72553

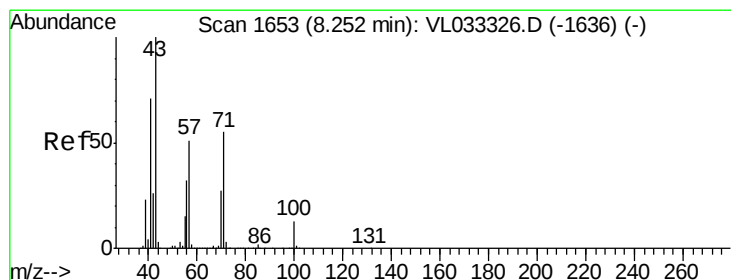
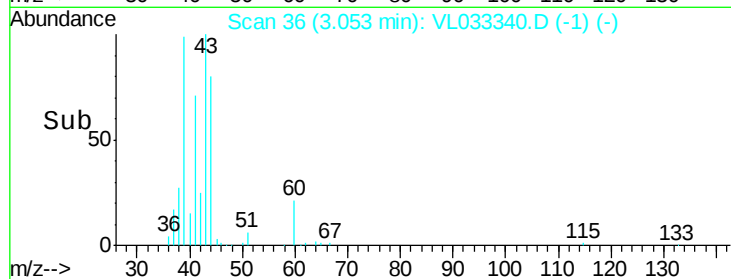
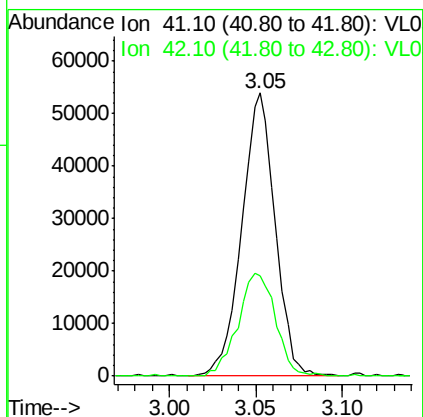
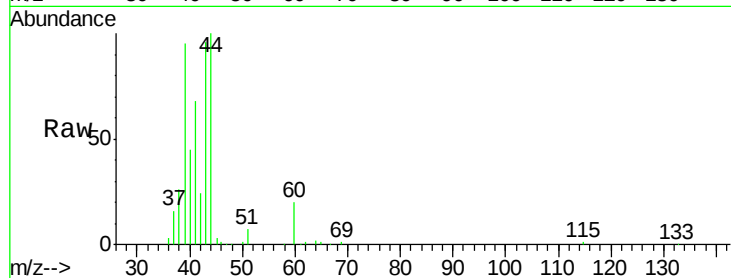
Ion Ratio Lower Upper

41 100

42 230.6 55.2 82.8#

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#10

Heptane

Concen: 2.376 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033340.D

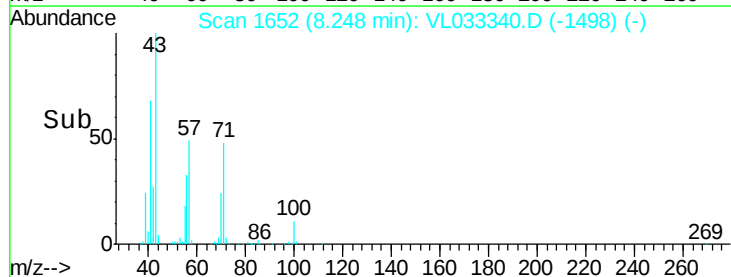
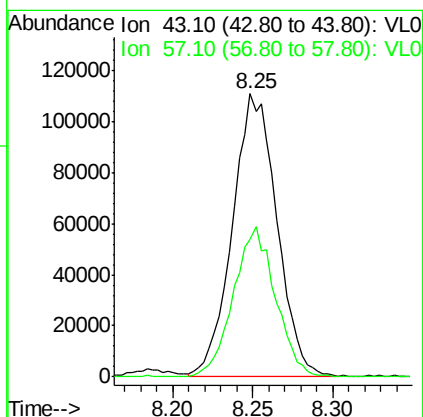
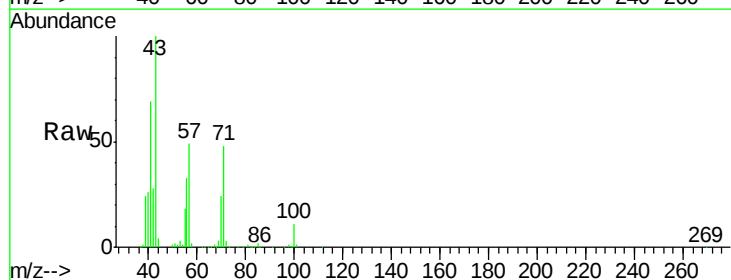
Acq: 15 Mar 2019 21:00

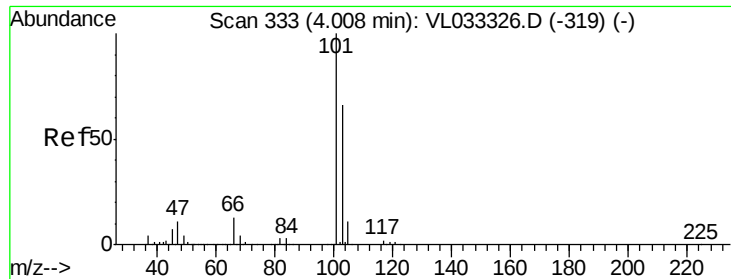
Tgt Ion: 43 Resp: 208311

Ion Ratio Lower Upper

43 100

57 50.6 40.4 60.6





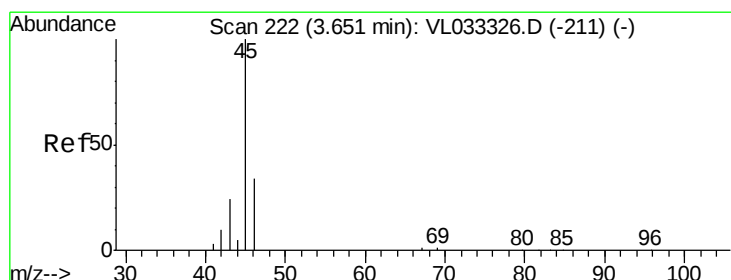
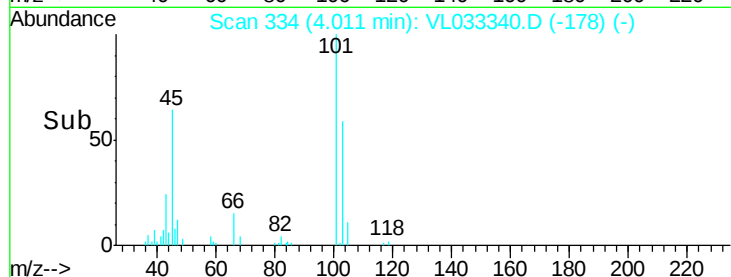
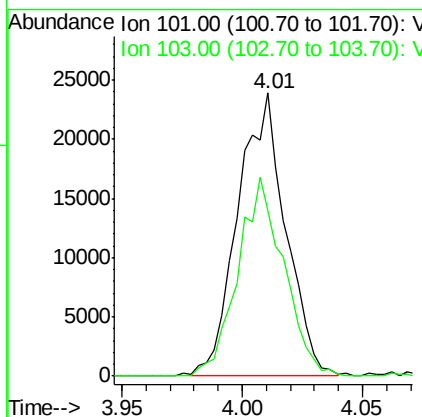
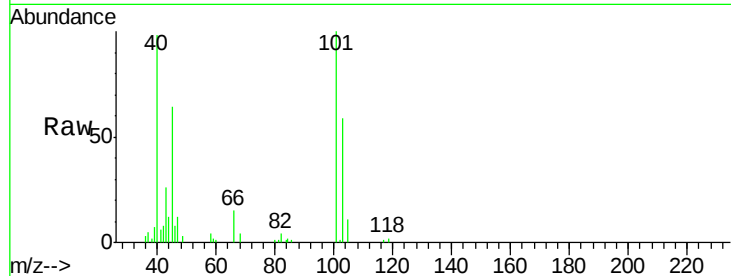
#11
 Trichlorofluoromethane
 Concen: 0.275 ppbv m
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL033340.D
 Acq: 15 Mar 2019 21:00

Instrument :
 MSVOA_L
 ClientSampled :
 A-1

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.5	52.9	79.3

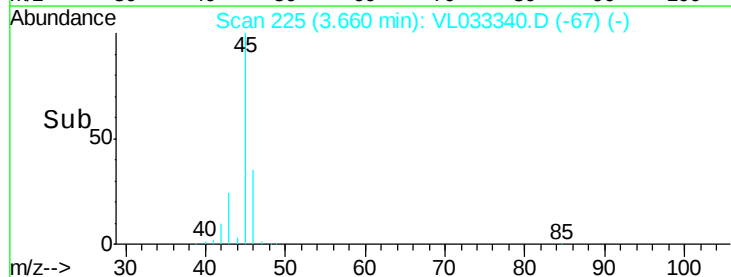
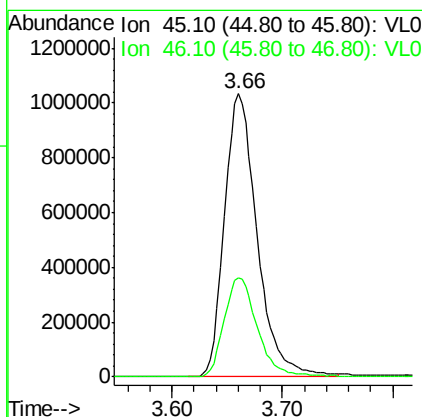
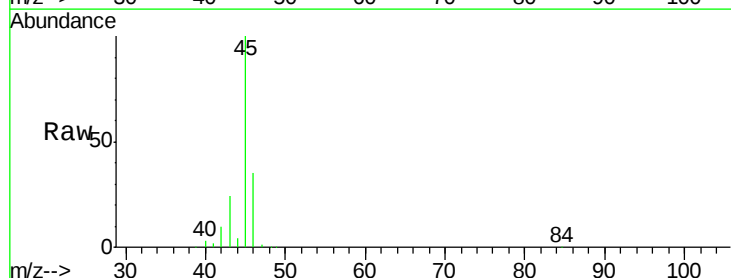
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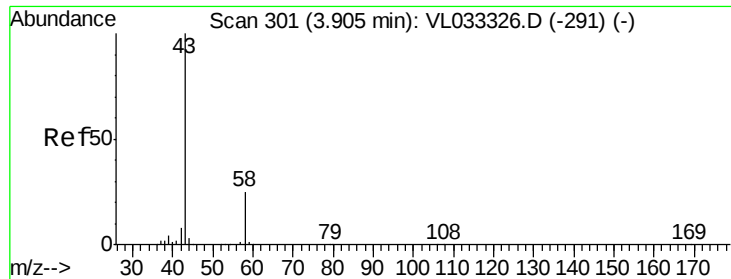
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#13
 Ethanol
 Concen: 126.173 ppbv
 RT: 3.66 min Scan# 225
 Delta R.T. 0.01 min
 Lab File: VL033340.D
 Acq: 15 Mar 2019 21:00

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.9	59.7





#15

Acetone

Concen: 10.447 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033340.D

Acq: 15 Mar 2019 21:00

Instrument :

MSVOA_L

ClientSampleId :

A-1

Tot Ion: 43 Resp: 1120387

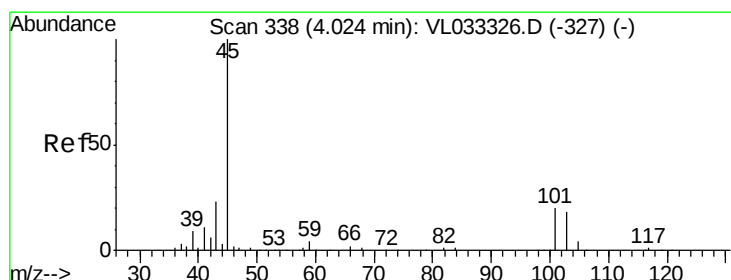
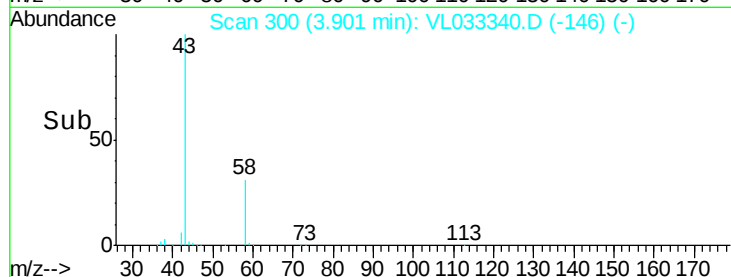
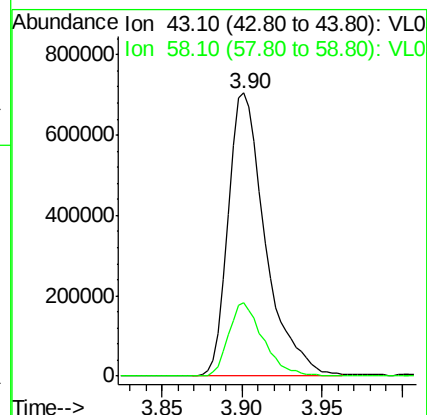
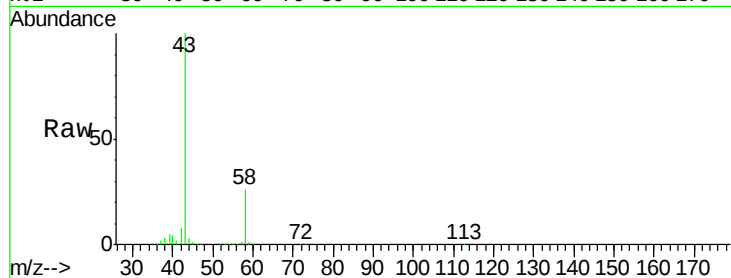
Ion Ratio Lower Upper

43 100

58 24.3 20.4 30.6

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 14.620 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033340.D

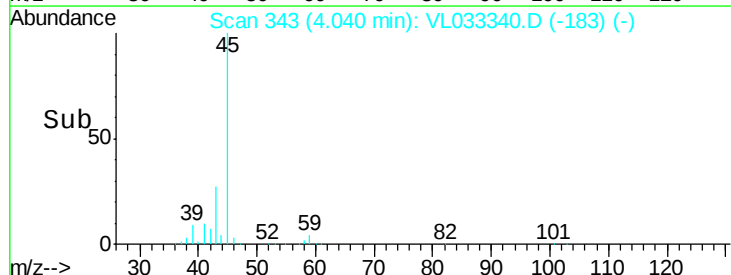
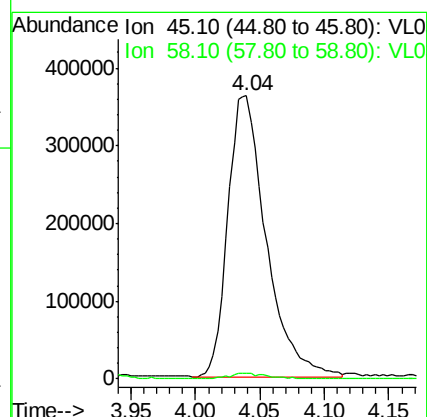
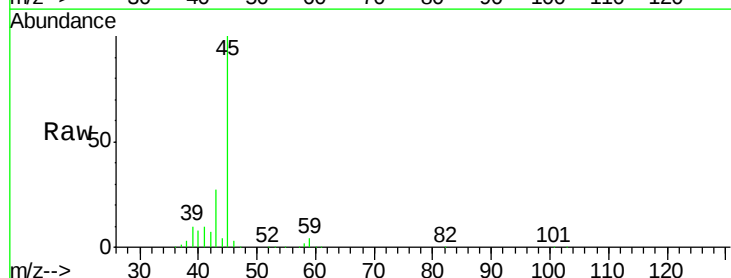
Acq: 15 Mar 2019 21:00

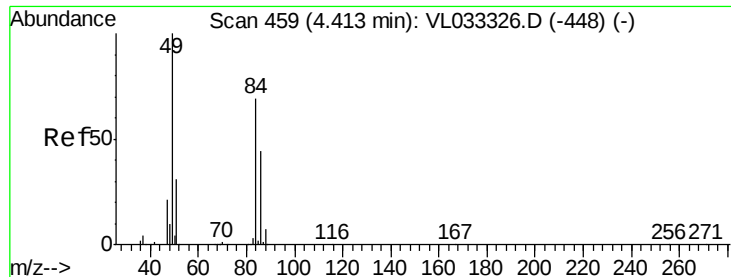
Tgt Ion: 45 Resp: 745802

Ion Ratio Lower Upper

45 100

58 2.4 1.5 2.3#





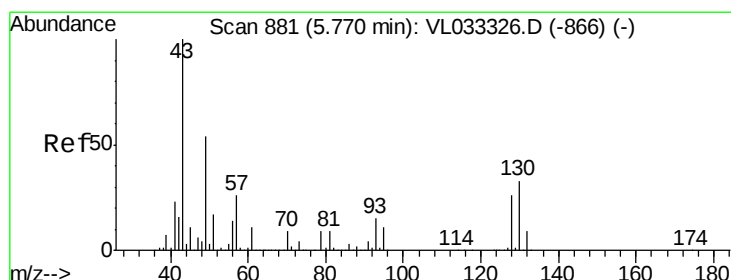
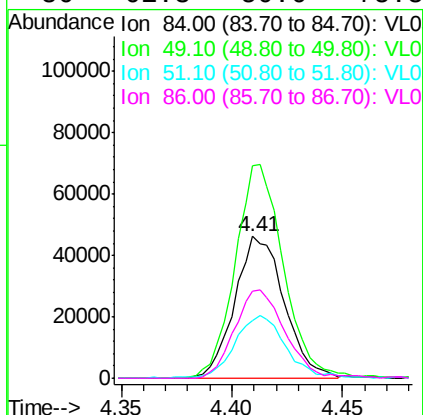
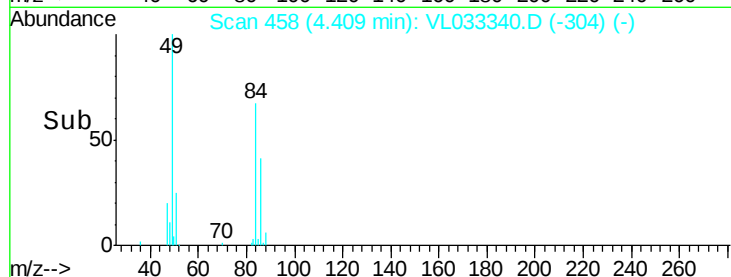
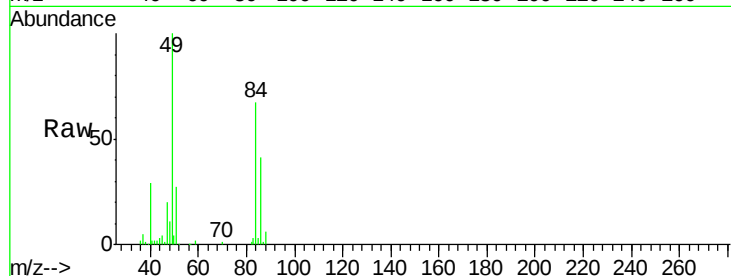
#20
Methvlene Chloride
Concen: 2.064 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampled :
A-1

Tot Ion:	84	Resp:	72190
Ion	Ratio	Lower	Upper
84	100		
49	149.1	115.4	173.0
51	40.4	35.8	53.6
86	61.3	50.6	75.8

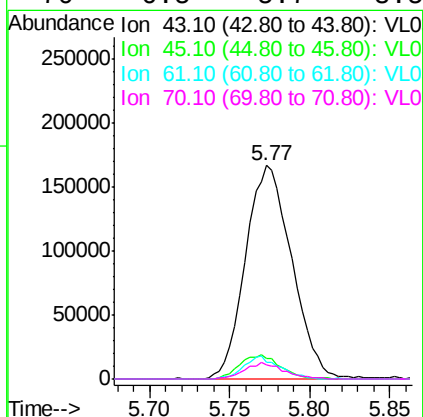
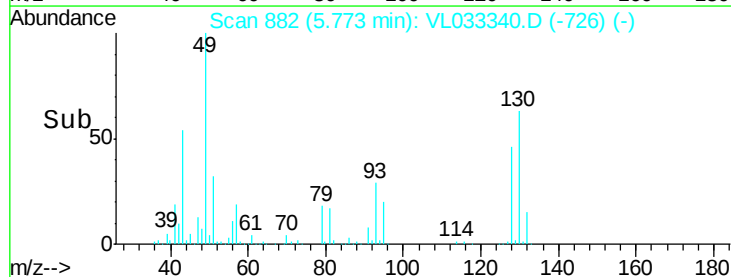
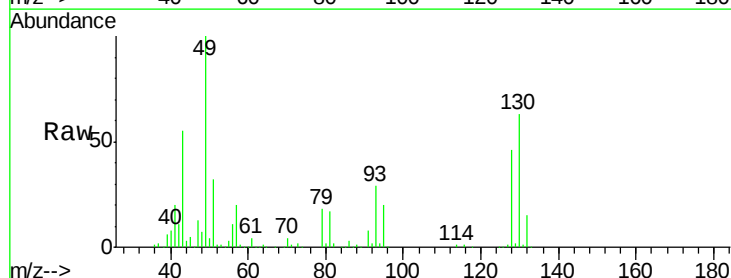
Manual Integrations
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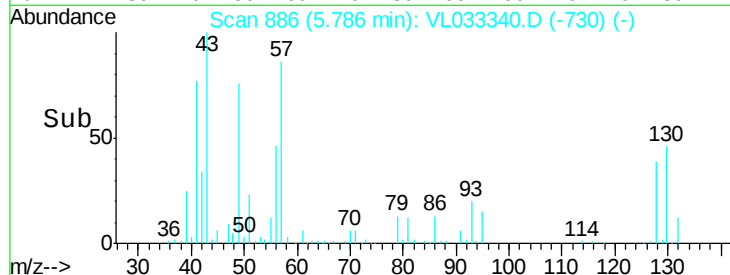
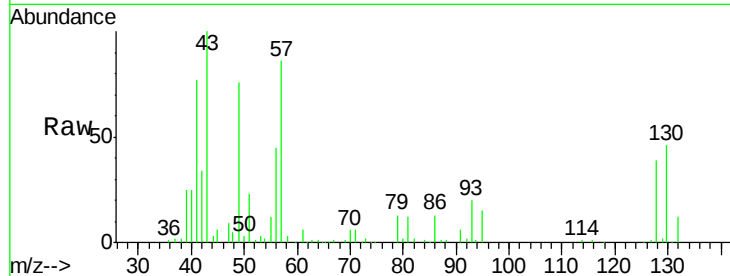
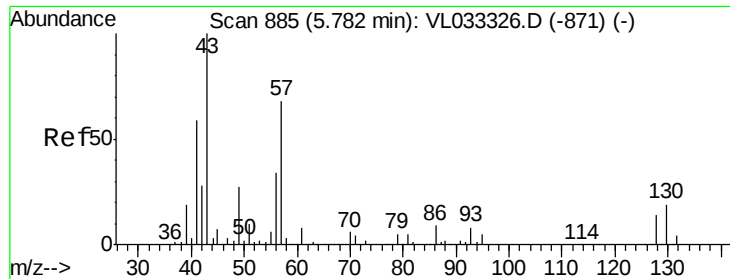
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#25
Ethyl Acetate
Concen: 2.106 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Tgt Ion:	43	Resp:	328319
Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.9	11.9
61	8.3	7.4	11.2
70	6.5	5.7	8.5





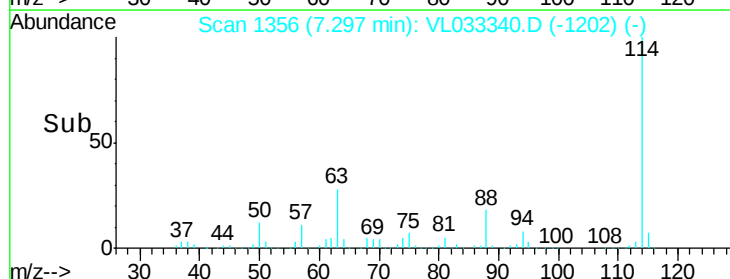
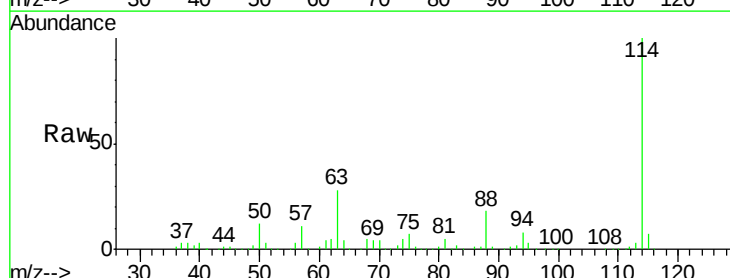
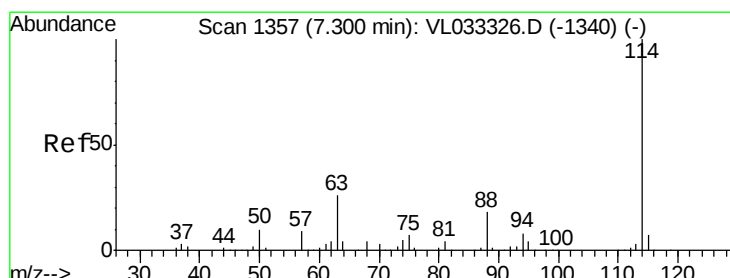
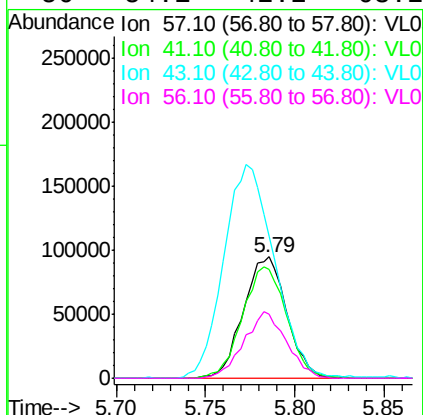
#26
Hexane
Concen: 2.305 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	94.3	70.5	105.7	
43	206.5	181.8	272.8	
56	54.1	42.2	63.2	

Instrument :
MSVOA_L
ClientSampleId :
A-1

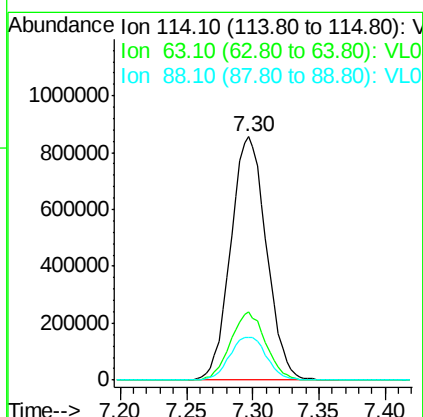
Manual Integrations
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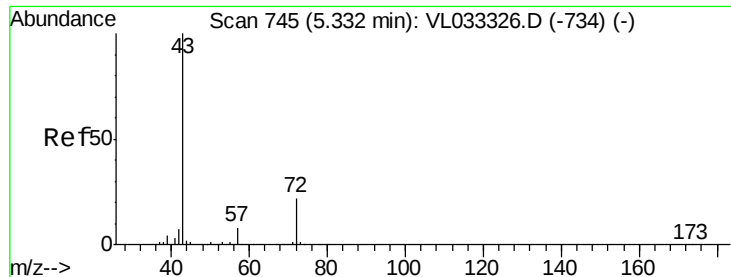
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	27.5	21.4	32.2	
88	18.2	14.5	21.7	





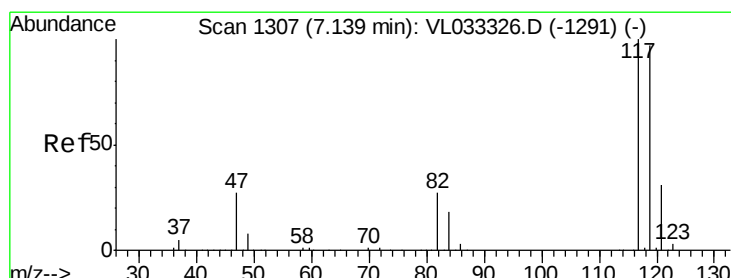
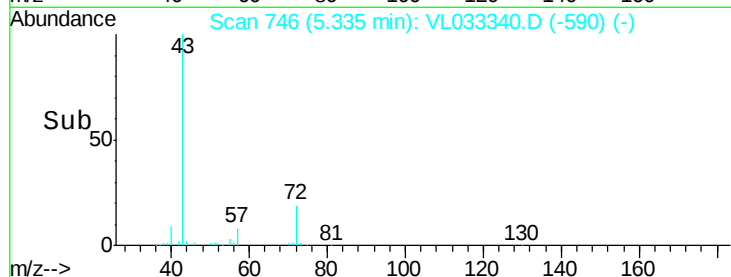
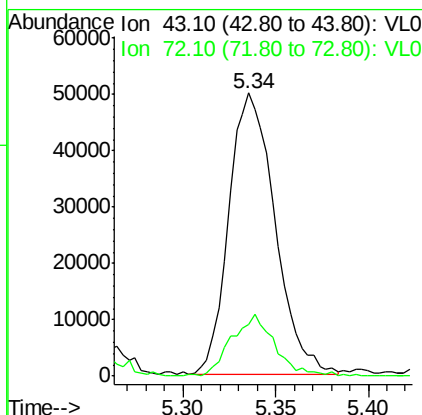
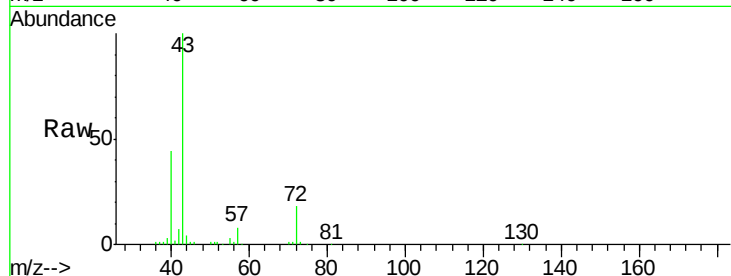
#34
2-Butanone
Concen: 0.816 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampled :
A-1

Tot Ion: 43 Resp: 85710
Ion Ratio Lower Upper
43 100
72 20.9 17.7 26.5

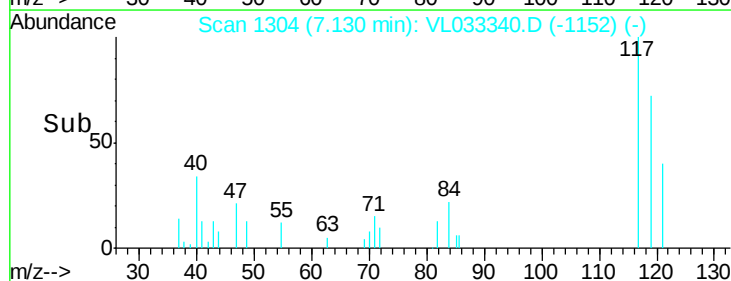
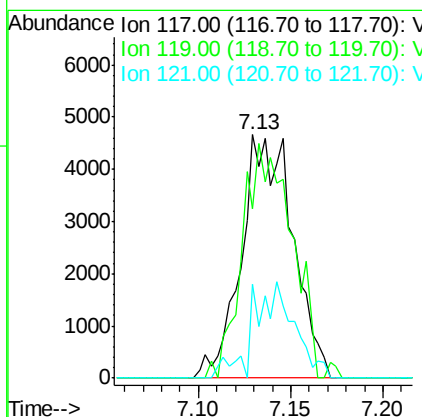
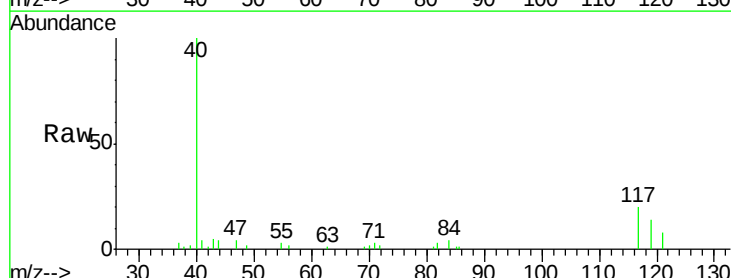
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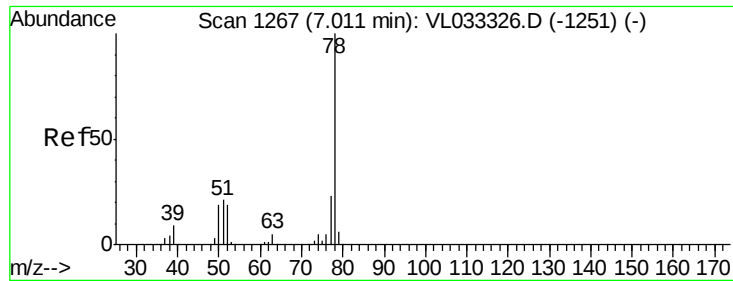
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3/19/2019 9:59:41 AM



#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 7.13 min Scan# 1304
Delta R.T. -0.01 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Tgt Ion: 117 Resp: 9034
Ion Ratio Lower Upper
117 100
119 69.5 77.4 116.0#
121 38.6 24.9 37.3#





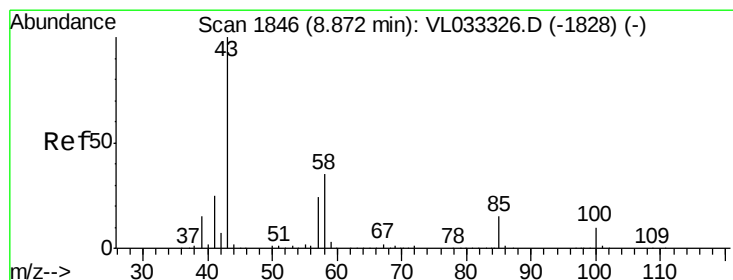
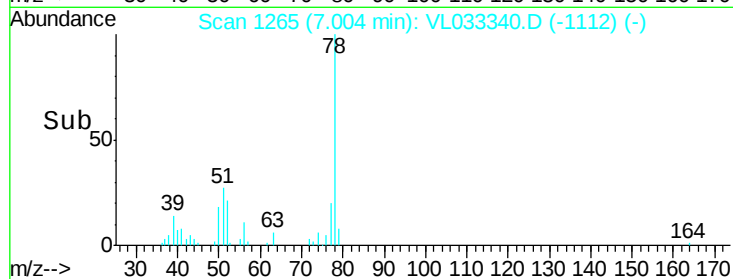
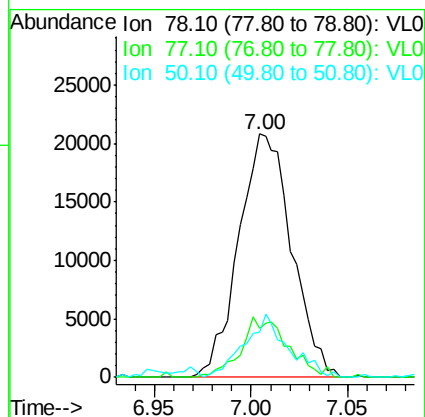
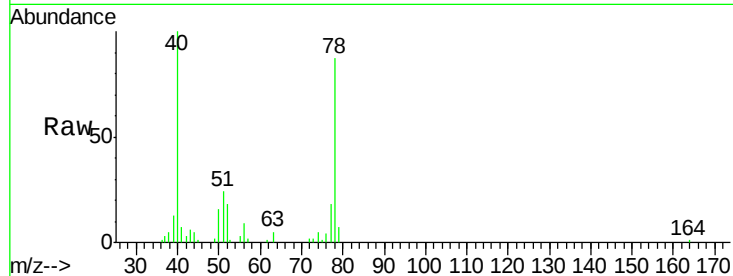
#36
Benzene
Concen: 0.276 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampled :
A-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.4	18.1	27.1
50	18.4	15.2	22.8

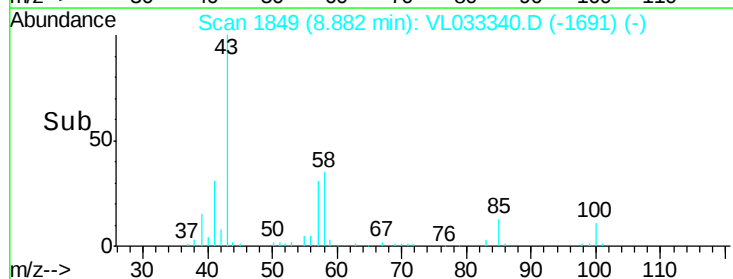
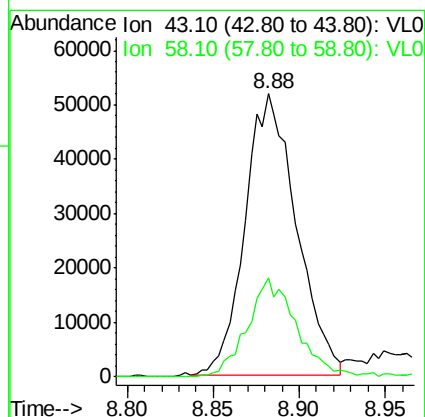
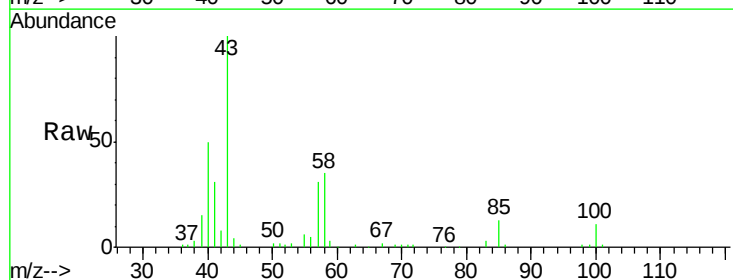
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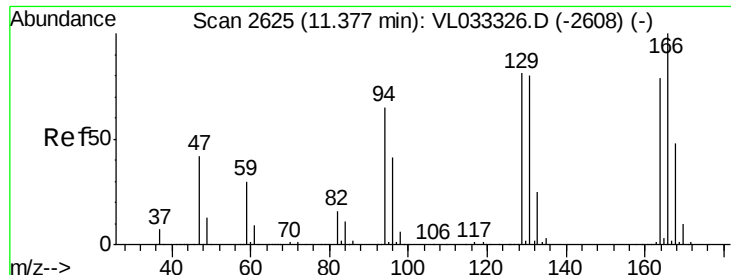
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#50
4-Methyl-2-Pentanone
Concen: 0.724 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.01 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.6	28.4	42.6





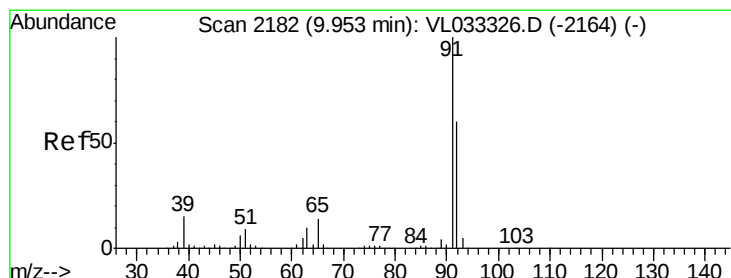
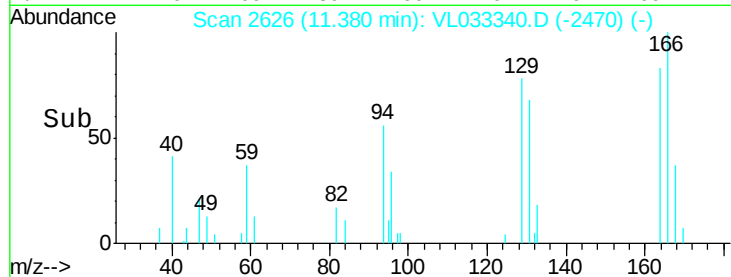
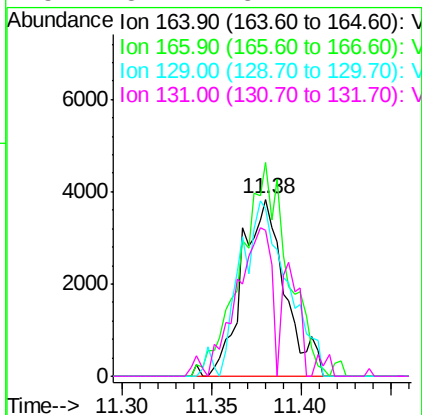
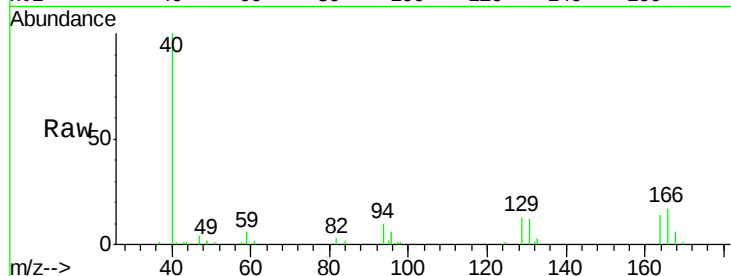
#52
Tetrachloroethene
Concen: 0.107 ppbv m
RT: 11.38 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampleId :
A-1

Tot Ion	Ratio	Lower	Upper
164	100		
166	120.7	101.5	152.3
129	94.5	82.2	123.2
131	82.4	81.1	121.7

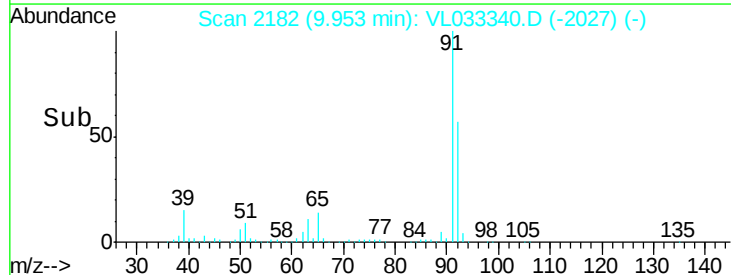
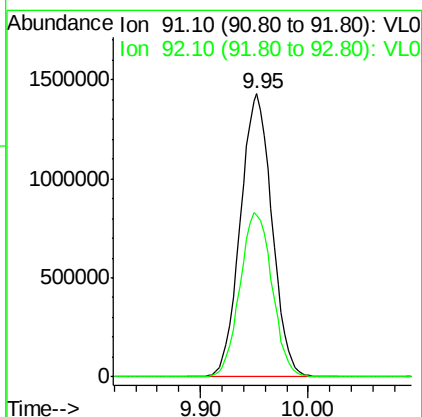
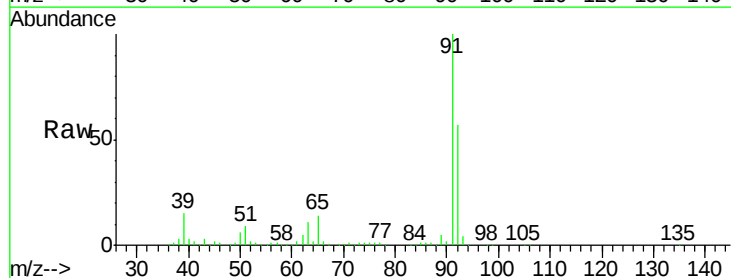
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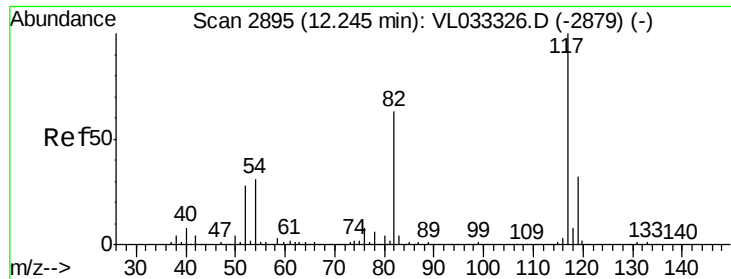
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#53
Toluene
Concen: 17.876 ppbv
RT: 9.95 min Scan# 2182
Delta R.T. -0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.2	47.4	71.0





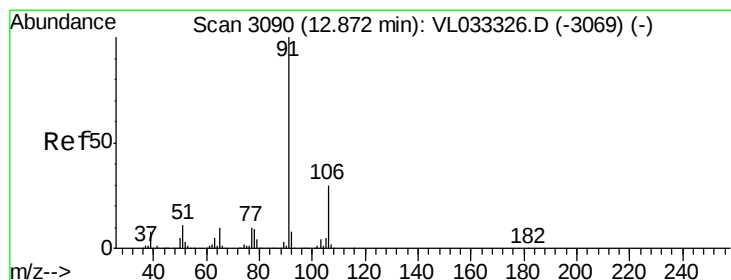
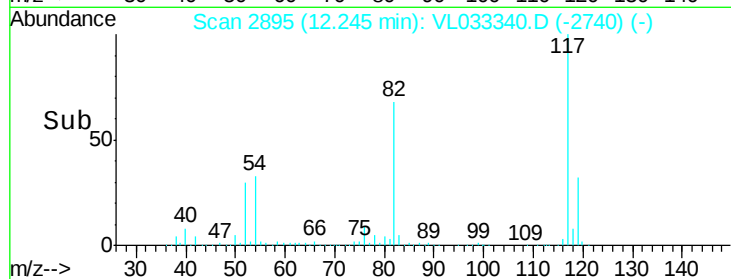
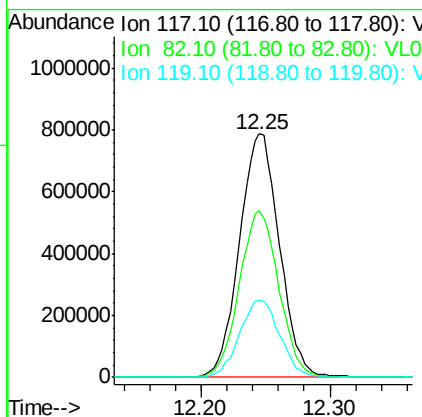
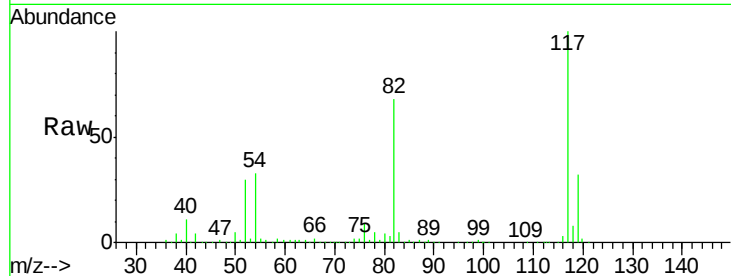
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampled :
A-1

Tot Ion:117 Resp: 1693494
Ion Ratio Lower Upper
117 100
82 68.4 53.4 80.2
119 32.2 27.3 40.9

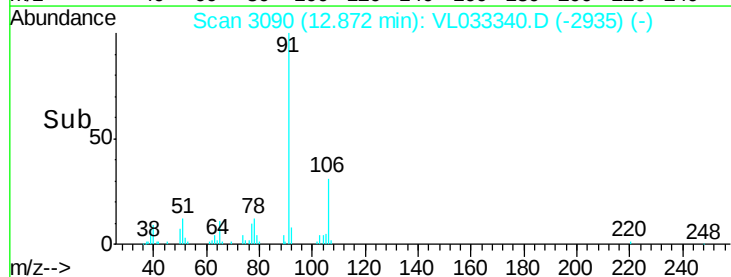
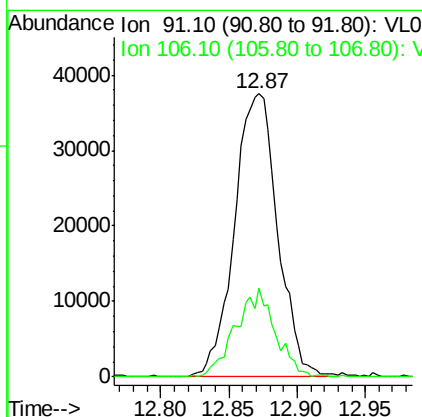
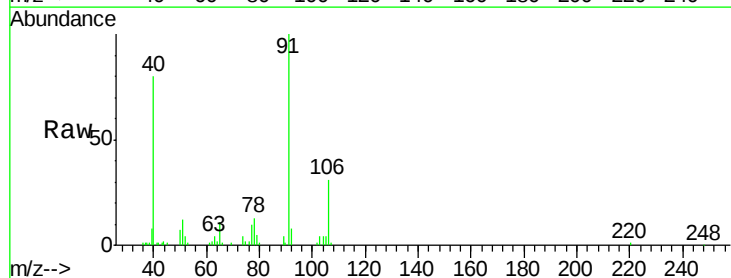
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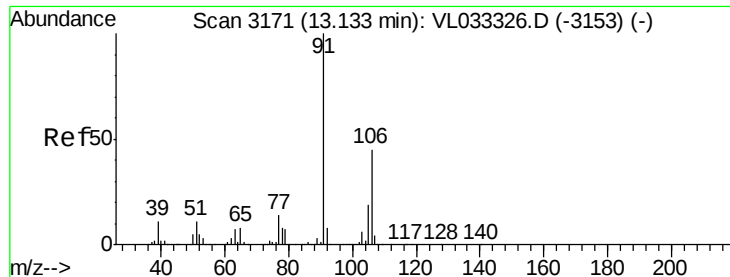
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#58
Ethyl Benzene
Concen: 0.345 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Tgt Ion: 91 Resp: 82629
Ion Ratio Lower Upper
91 100
106 31.2 24.2 36.2





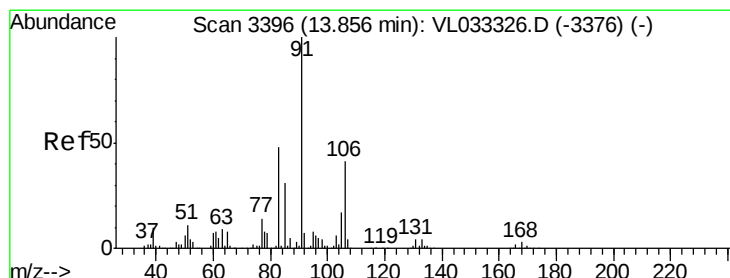
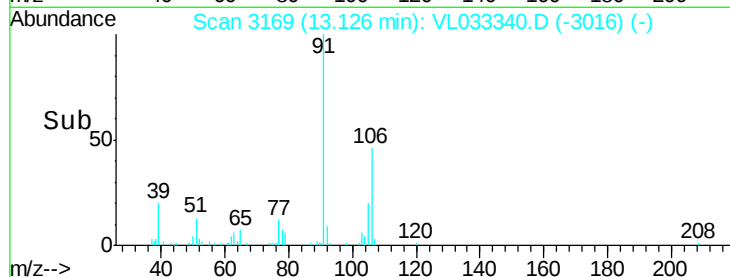
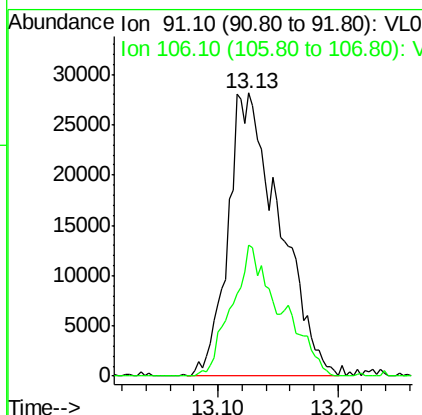
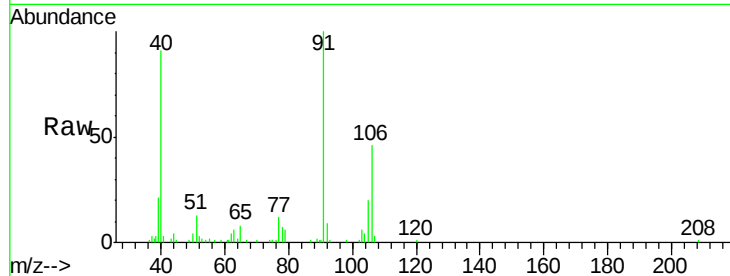
#59
m/p-Xylene
Concen: 0.402 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Instrument :
MSVOA_L
ClientSampled :
A-1

Tot Ion: 91 Resp: 82719
Ion Ratio Lower Upper
91 100
106 43.9 0.0 0.0#

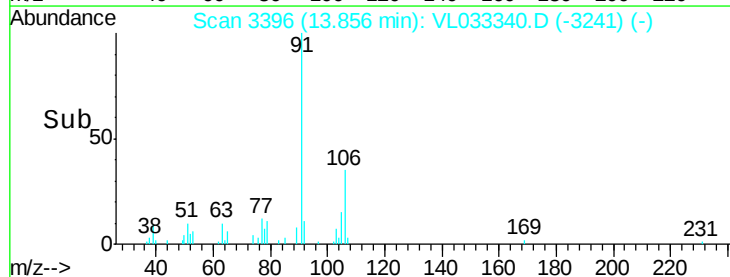
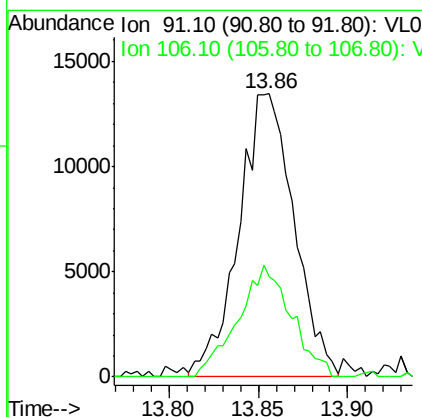
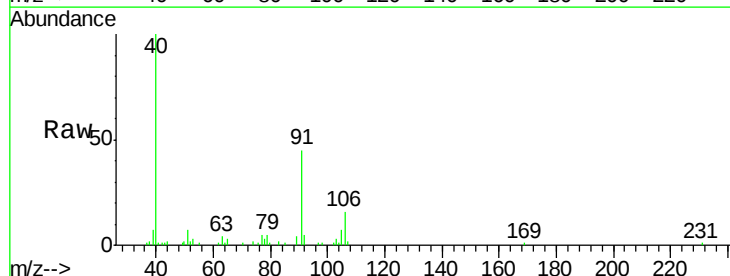
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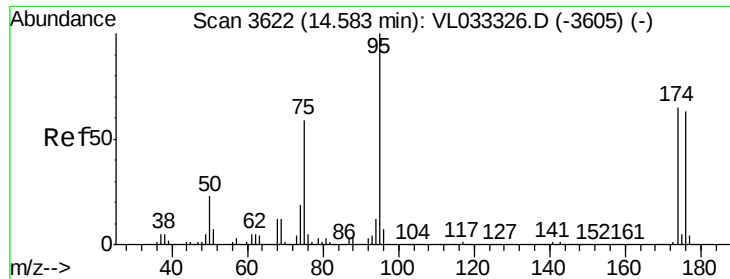
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#60
o-Xylene
Concen: 0.145 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. -0.00 min
Lab File: VL033340.D
Acq: 15 Mar 2019 21:00

Tgt Ion: 91 Resp: 29191
Ion Ratio Lower Upper
91 100
106 38.3 21.3 63.9





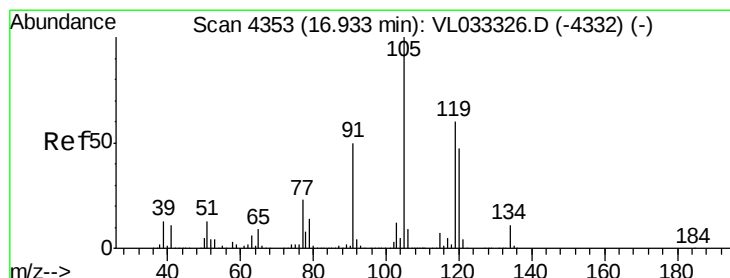
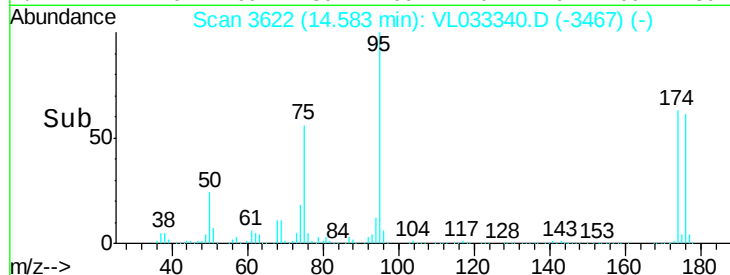
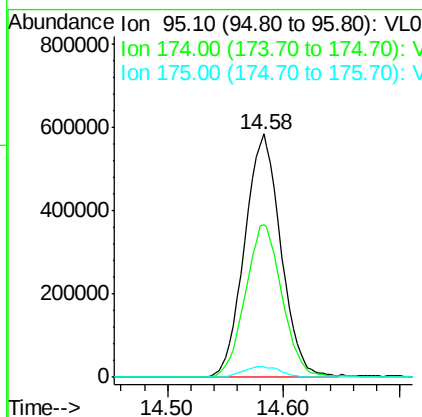
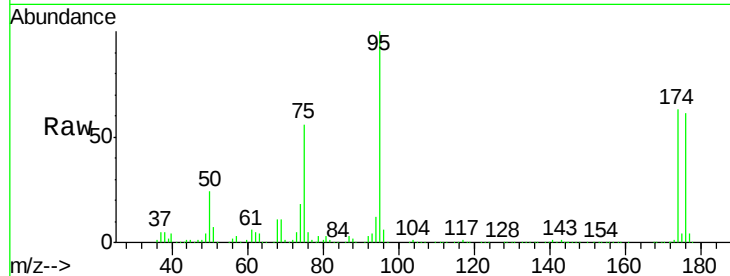
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.160 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.00 min
 Lab File: VL033340.D
 Acq: 15 Mar 2019 21:00

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1

Tot Ion: 95 Resp: 1274926
 Ion Ratio Lower Upper
 95 100
 174 64.2 51.5 77.3
 175 4.7 3.8 5.6

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.263 ppbv m
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL033340.D
 Acq: 15 Mar 2019 21:00

Tgt Ion: 105 Resp: 61794
 Ion Ratio Lower Upper
 105 100
 120 38.4 37.4 56.2
 91 13.5 41.0 61.4#
 77 16.0 18.5 27.7#

