

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033505.D
 Acq On : 29 Mar 2019 16:55
 Operator : SY/AP
 Sample : K2042-18
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-RM

Manual Integrations
 APPROVED

MMDadoda
 4/2/2019 8:40:11 AM

Quant Time: Mar 31 14:57:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	760720	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1956921	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1889737	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1474863	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	27547	0.248	ppbv	99
3) Chlorodifluoromethane	3.01	51	29338m	0.335	ppbv	
4) Chloromethane	3.17	50	28514	0.615	ppbv	90
9) Propene	3.05	41	28655m	0.779	ppbv	
10) Heptane	8.25	43	13206	0.134	ppbv	97
11) Trichlorofluoromethane	4.00	101	38050	0.278	ppbv	90
13) Ethanol	3.65	45	1050130	110.338	ppbv	64
15) Acetone	3.90	43	1211788	13.248	ppbv	99
17) tert-Butyl alcohol	4.37	59	22909m	1.362	ppbv	
19) Isopropyl Alcohol	4.02	45	168777	2.917	ppbv #	1
20) Methylene Chloride	4.41	84	183950	4.738	ppbv	97
26) Hexane	5.78	57	201288	2.668	ppbv #	43
34) 2-Butanone	5.33	43	34430m	0.293	ppbv	
35) Carbon Tetrachloride	7.13	117	10180m	0.073	ppbv	
36) Benzene	7.00	78	42999	0.262	ppbv #	92
53) Toluene	9.94	91	1052526	5.516	ppbv	99
58) Ethyl Benzene	12.86	91	28344m	0.112	ppbv	
59) m/p-Xylene	13.12	91	94338m	0.419	ppbv	
60) o-Xylene	13.85	91	27833m	0.128	ppbv	

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

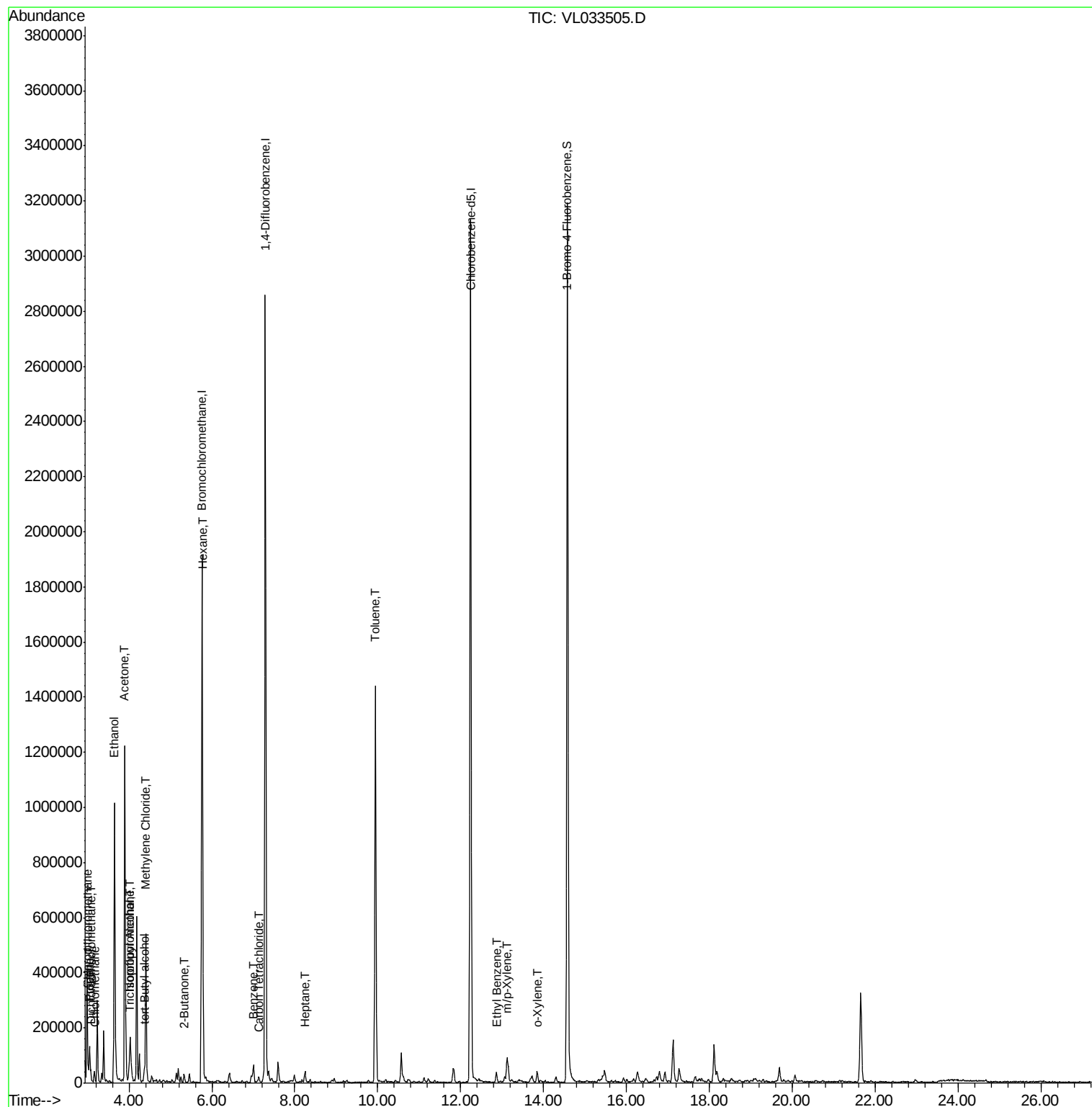
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032919\
Data File : VL033505.D
Acq On : 29 Mar 2019 16:55
Operator : SY/AP
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Misc : 400ml/MSVOA L
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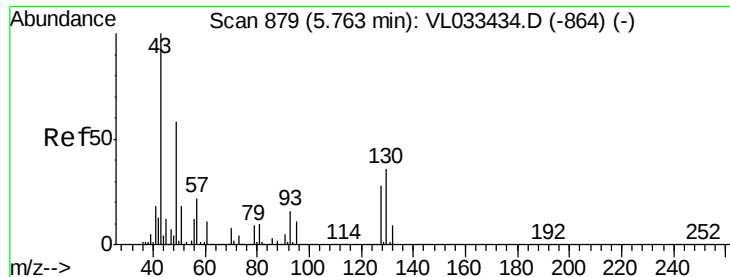
Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-RM

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Quant Time: Mar 31 14:57:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

Instrument :

MSVOA_L

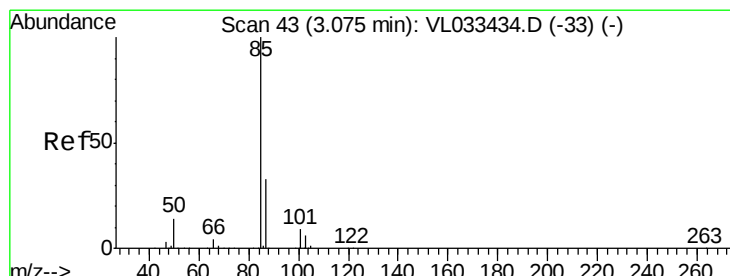
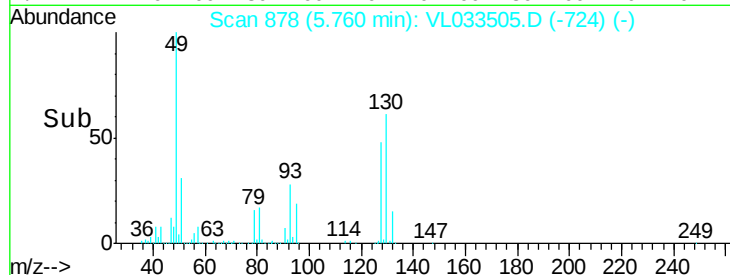
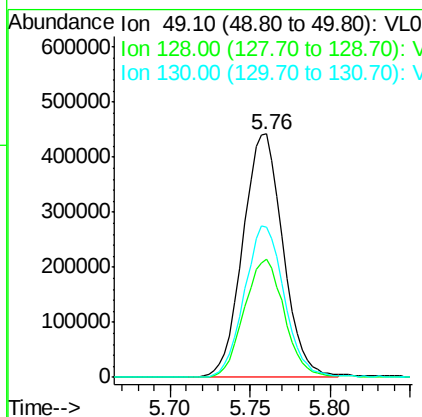
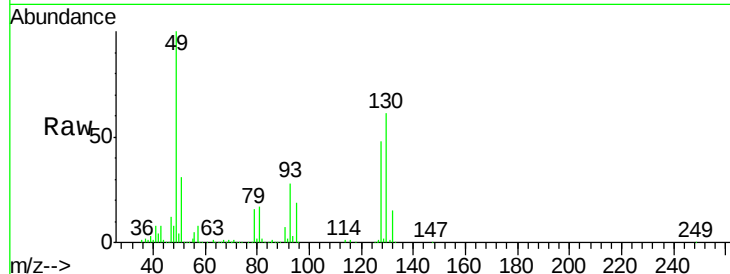
ClientSampleId :

IAS-2-MUSIC-RM

Tot Ion:	49	Resp:	760720
Ion	Ratio	Lower	Upper
49	100		
128	48.6	24.0	72.0
130	62.6	31.2	93.6

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.248 ppbv

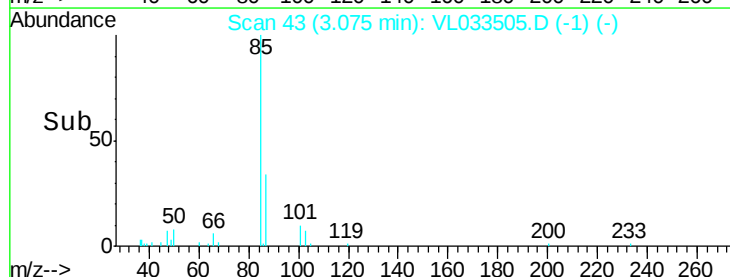
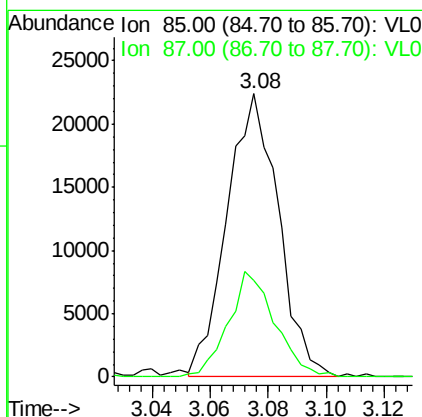
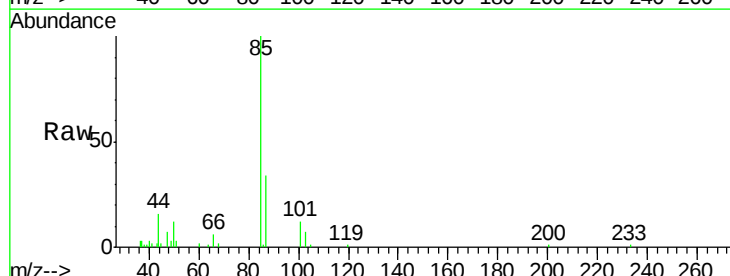
RT: 3.08 min Scan# 43

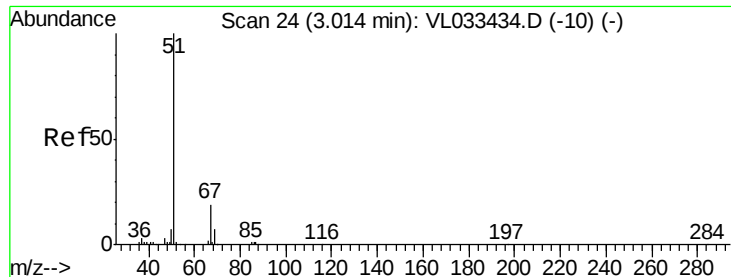
Delta R.T. -0.00 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

Tgt Ion:	85	Resp:	27547
Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.7	40.1





#3

Chlorodifluoromethane

Concen: 0.335 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.01 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-RM

Tot Ion: 51 Resp: 29338

Ion Ratio Lower Upper

51 100

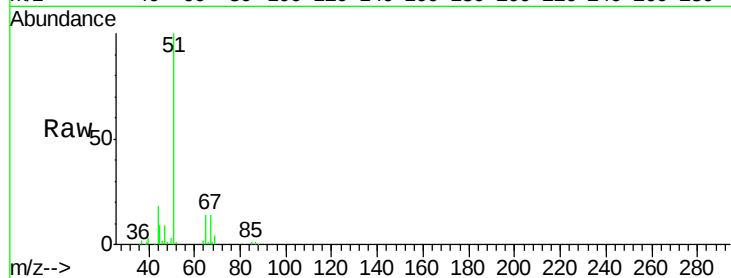
67 27.2 15.7 23.5#

Manual Integrations

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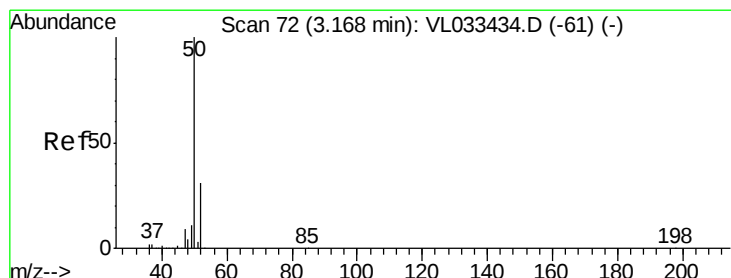
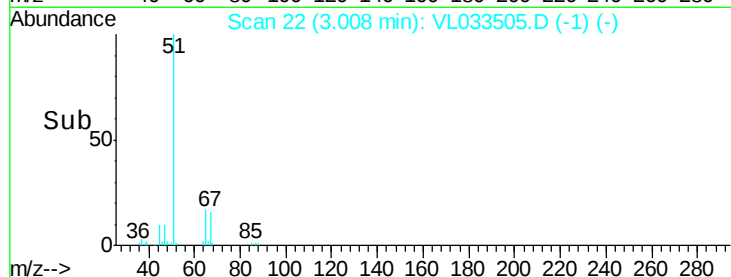
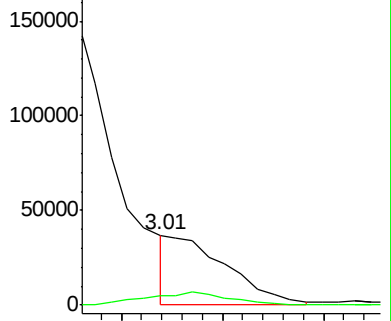
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.615 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033505.D

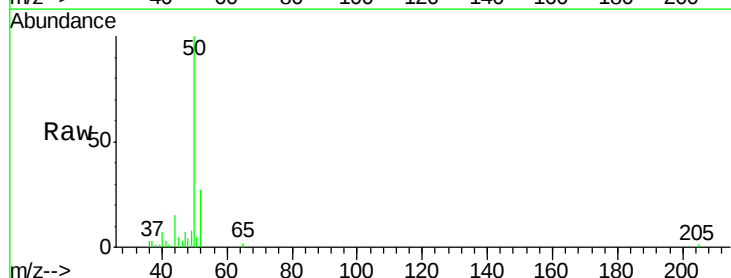
Acq: 29 Mar 2019 16:55

Tgt Ion: 50 Resp: 28514

Ion Ratio Lower Upper

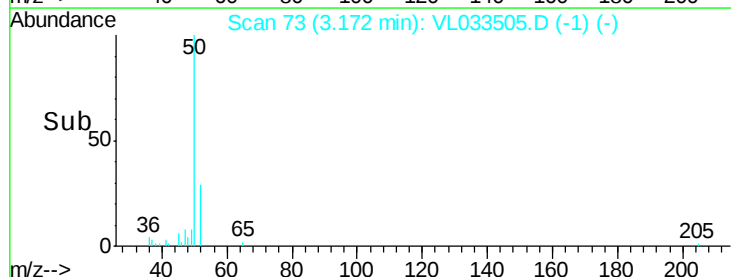
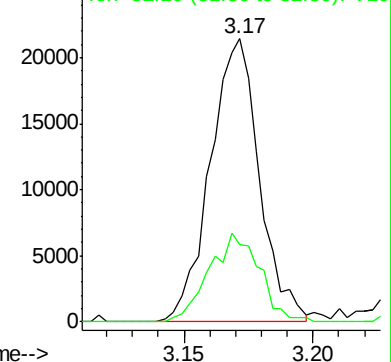
50 100

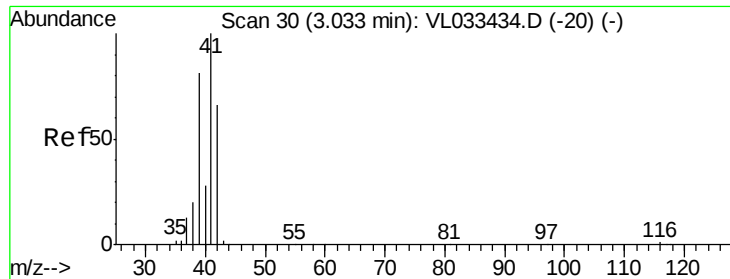
52 25.9 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.779 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-RM

Tot Ion: 41 Resp: 28655

Ion Ratio Lower Upper

41 100

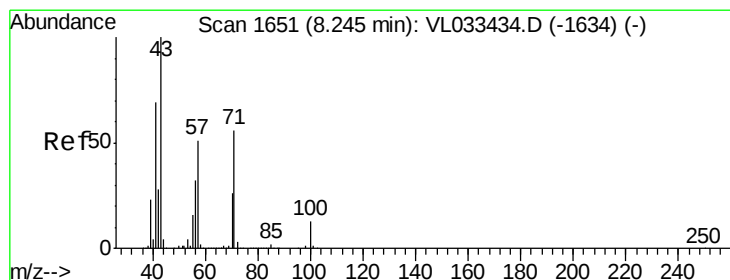
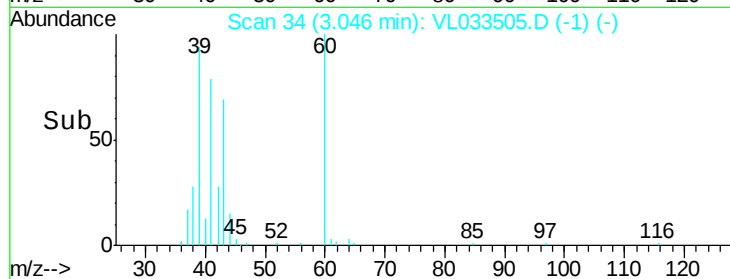
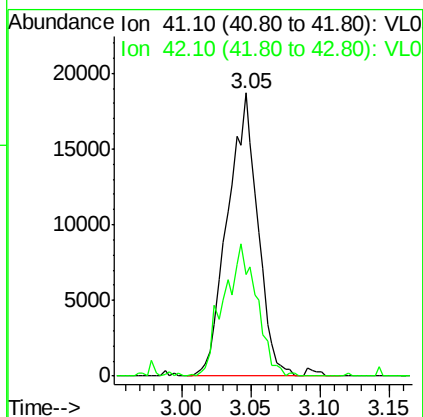
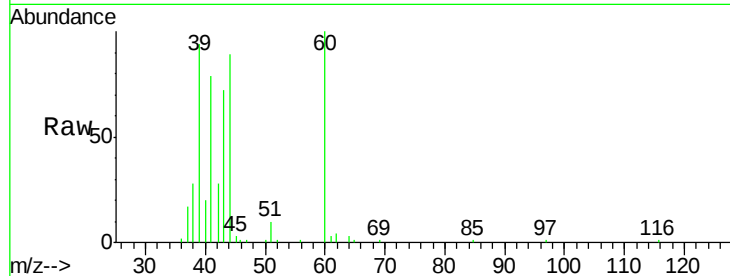
42 168.1 53.9 80.9#

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#10

Heptane

Concen: 0.134 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033505.D

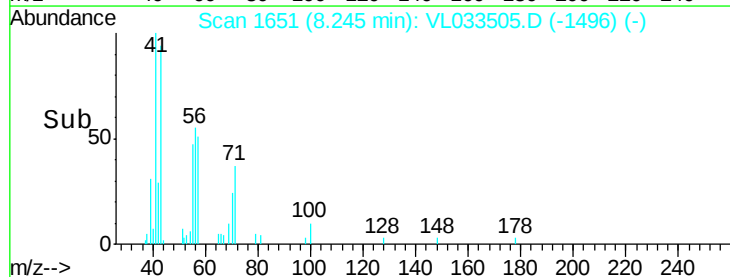
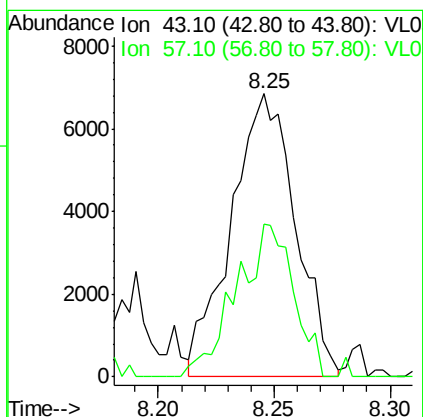
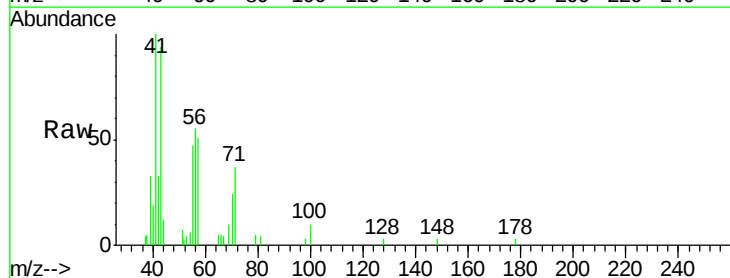
Acq: 29 Mar 2019 16:55

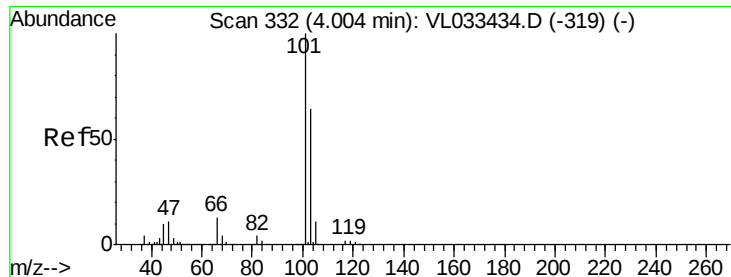
Tgt Ion: 43 Resp: 13206

Ion Ratio Lower Upper

43 100

57 48.7 40.6 60.8





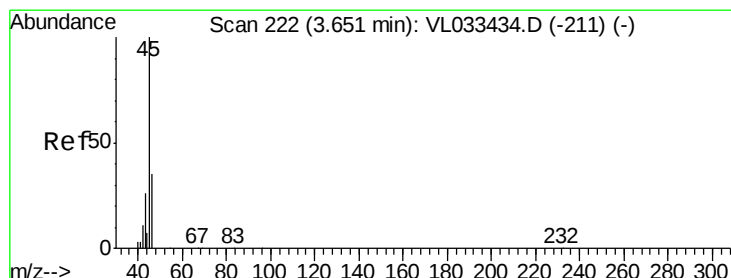
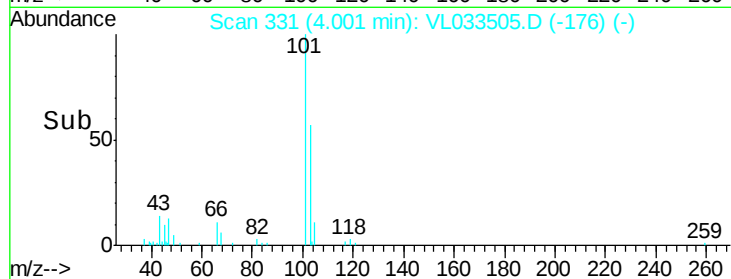
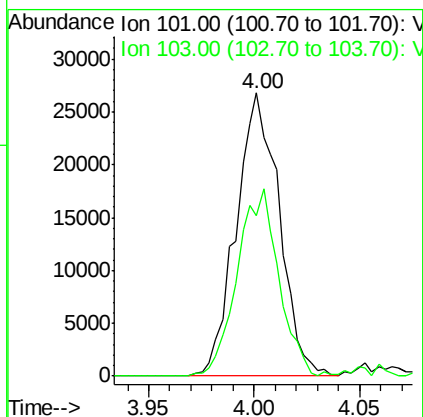
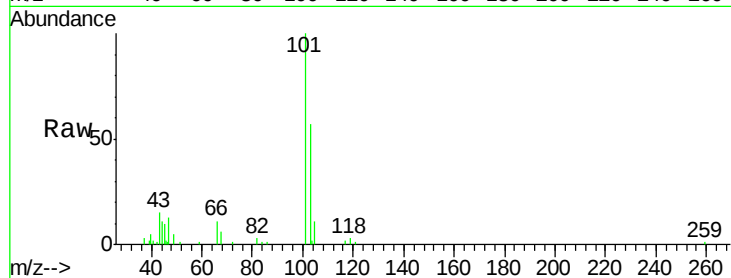
#11
 Trichlorofluoromethane
 Concen: 0.278 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033505.D
 Acq: 29 Mar 2019 16:55

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-RM

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		38050		
103	56.6	51.3	76.9		

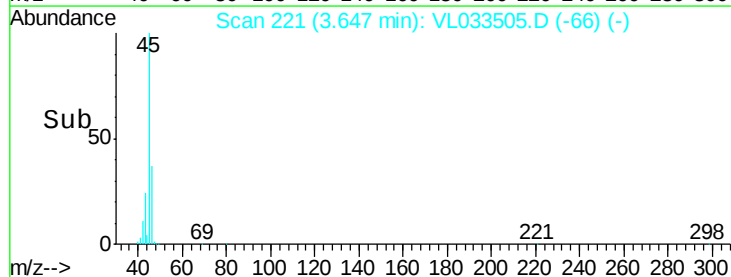
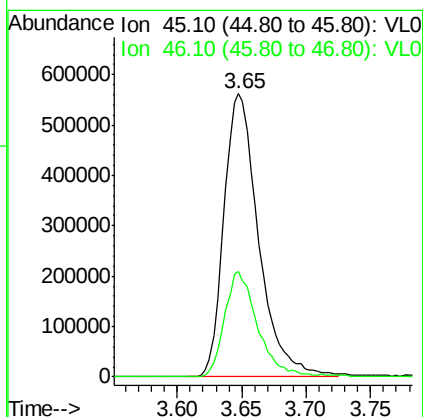
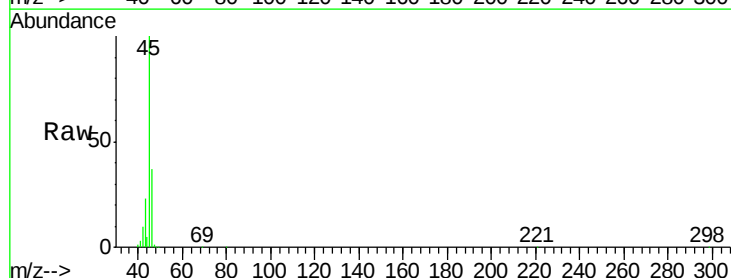
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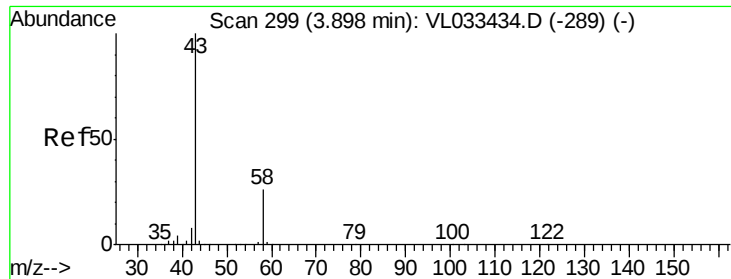
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#13
 Ethanol
 Concen: 110.338 ppbv
 RT: 3.65 min Scan# 221
 Delta R.T. -0.00 min
 Lab File: VL033505.D
 Acq: 29 Mar 2019 16:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		1050130		
46	35.8	25.4	101.8		





#15

Acetone

Concen: 13.248 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-RM

Tot Ion: 43 Resp: 1211788

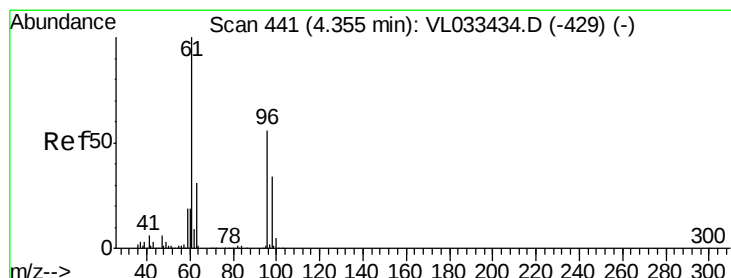
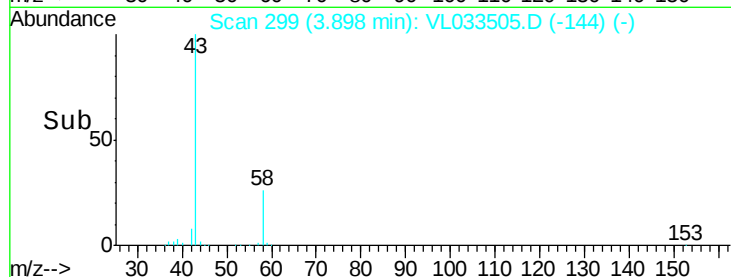
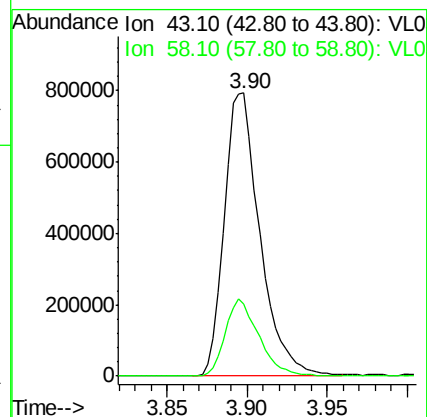
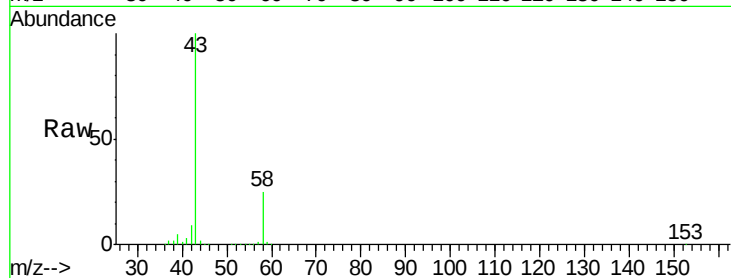
Ion Ratio Lower Upper

43 100

58 26.0 20.5 30.7

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 1.362 ppbv m

RT: 4.37 min Scan# 445

Delta R.T. 0.01 min

Lab File: VL033505.D

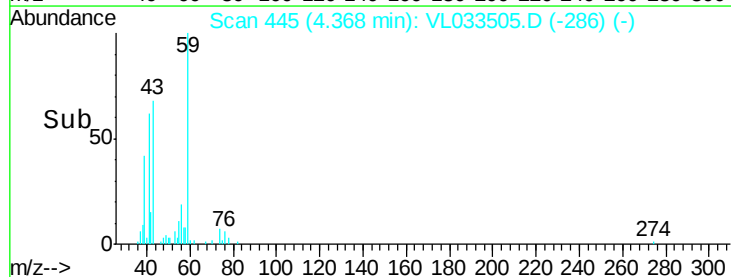
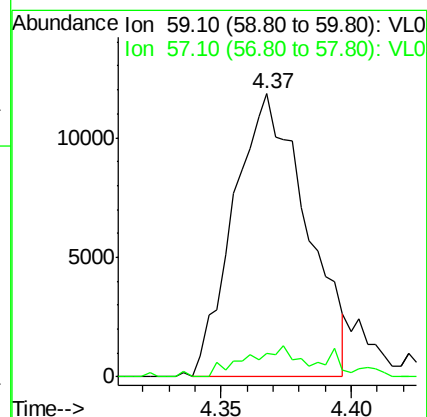
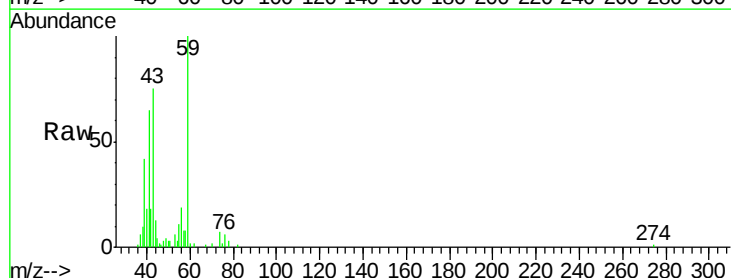
Acq: 29 Mar 2019 16:55

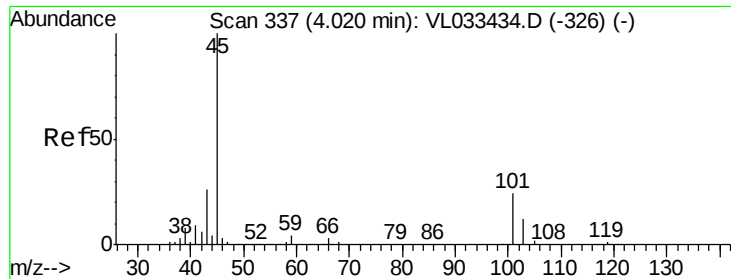
Tgt Ion: 59 Resp: 22909

Ion Ratio Lower Upper

59 100

57 11.4 7.8 11.8





#19

Isopropyl Alcohol

Concen: 2.917 ppbv

RT: 4.02 min Scan# 338

Delta R.T. 0.00 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-RM

Tot Ion: 45 Resp: 168777

Ion Ratio Lower Upper

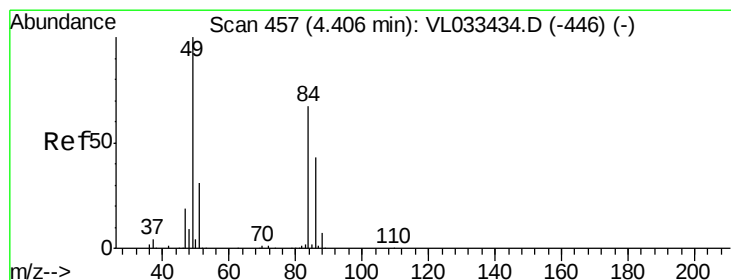
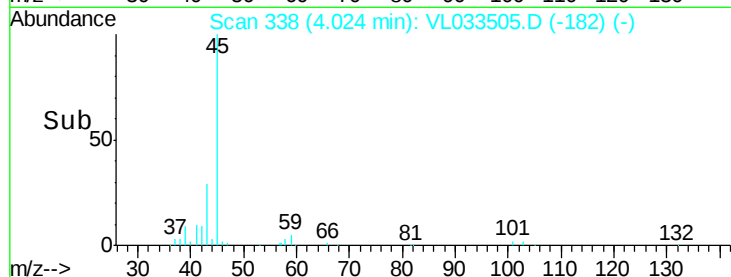
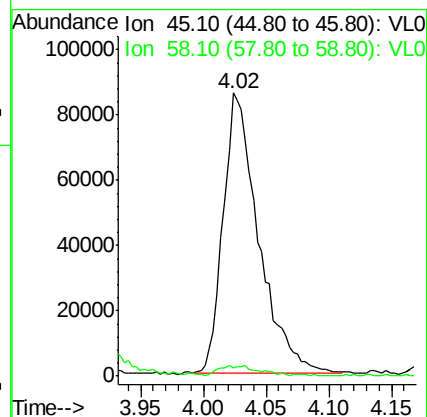
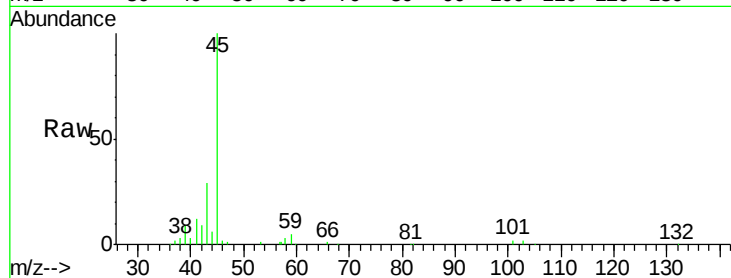
45 100

58 186.5 1.4 2.2#

Manual Integrations
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#20

Methylene Chloride

Concen: 4.738 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

Tgt Ion: 84 Resp: 183950

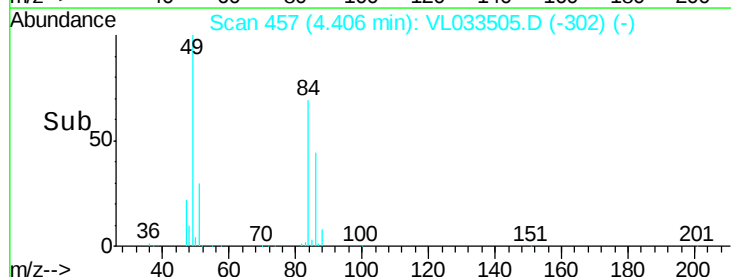
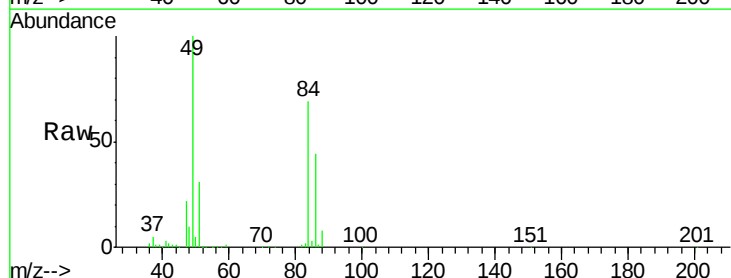
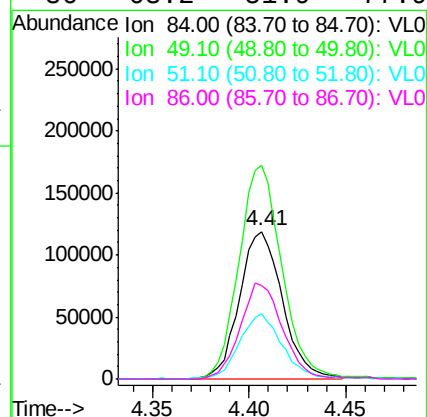
Ion Ratio Lower Upper

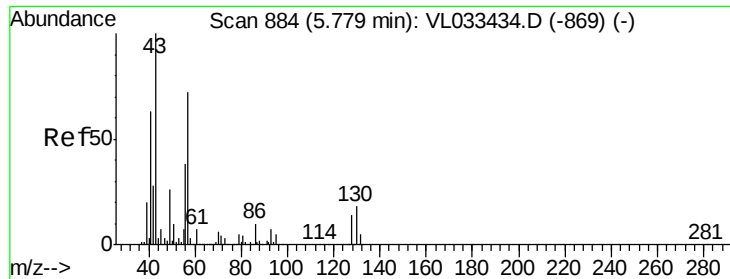
84 100

49 144.9 120.0 180.0

51 43.5 36.7 55.1

86 63.2 51.9 77.9





#26

Hexane

Concen: 2.668 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-RM

Tot Ion: 57 Resp: 201288

Ion Ratio Lower Upper

57 100

41 95.3 70.7 106.1

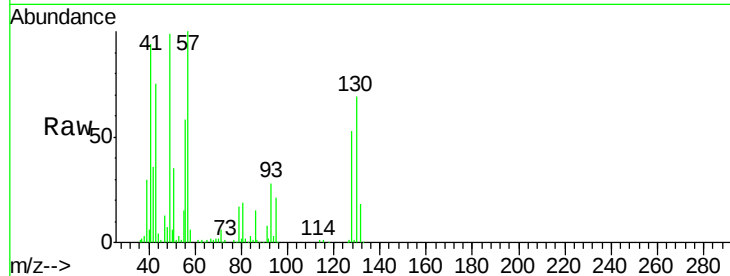
43 81.6 182.6 274.0#

56 55.5 42.0 63.0

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4/2/2019 8:40:11 AM

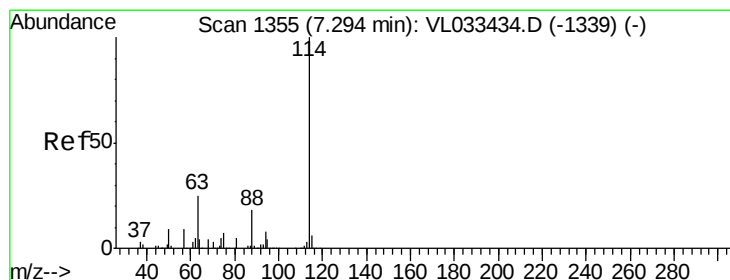
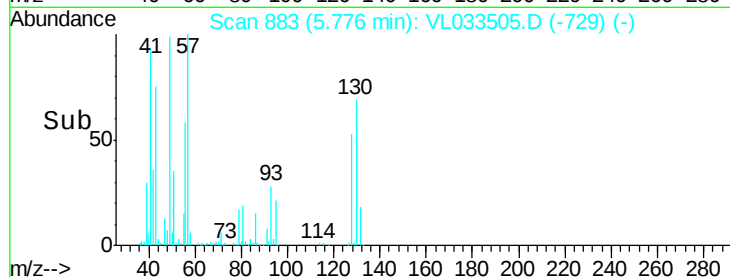
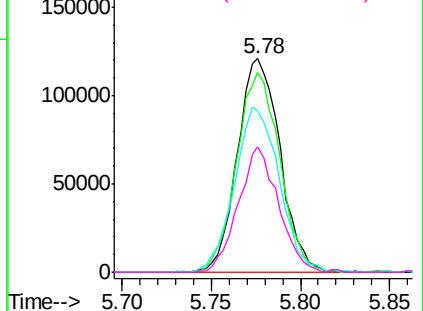


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033505.D

Acq: 29 Mar 2019 16:55

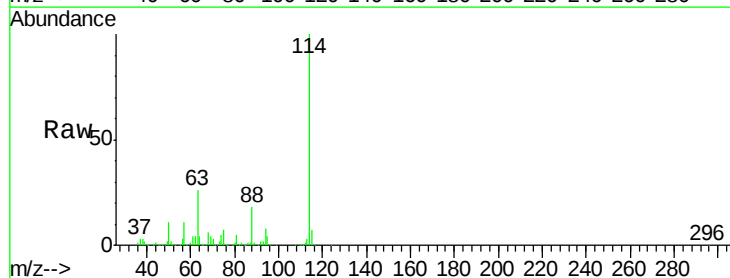
Tgt Ion:114 Resp: 1956921

Ion Ratio Lower Upper

114 100

63 26.8 21.5 32.3

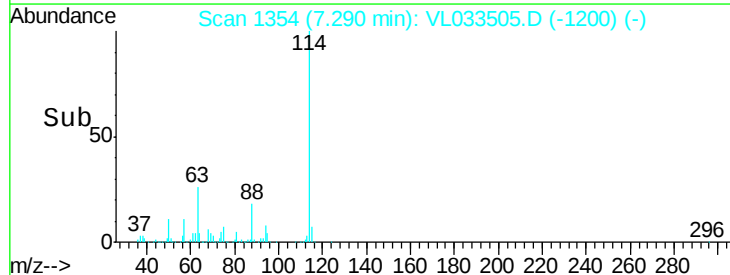
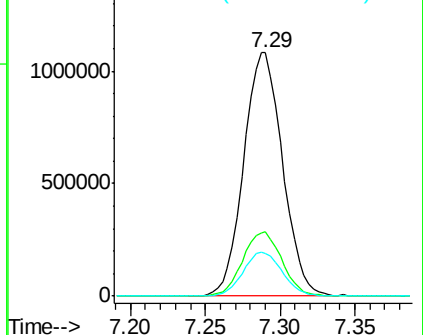
88 18.2 14.5 21.7

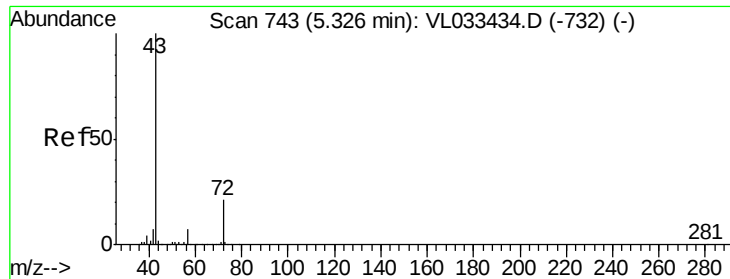


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





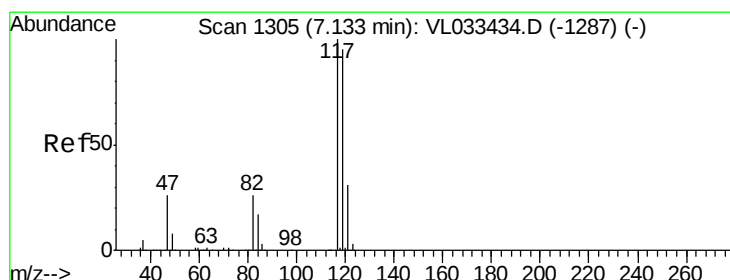
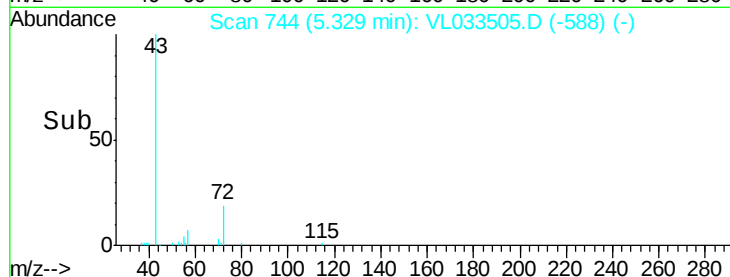
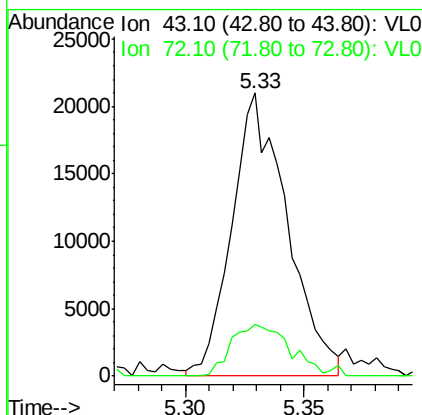
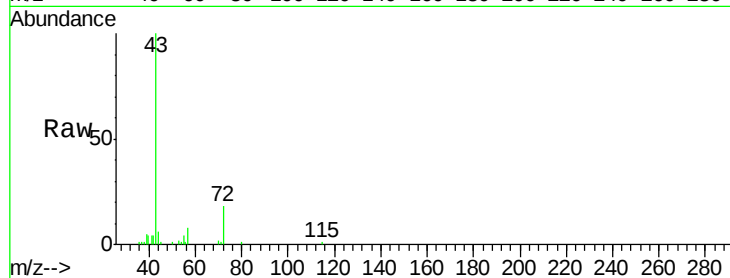
#34
2-Butanone
Concen: 0.293 ppbv m
RT: 5.33 min Scan# 744
Delta R.T. 0.00 min
Lab File: VL033505.D
Acq: 29 Mar 2019 16:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-RM

Tot Ion: 43 Resp: 34430
Ion Ratio Lower Upper
43 100
72 19.8 17.4 26.2

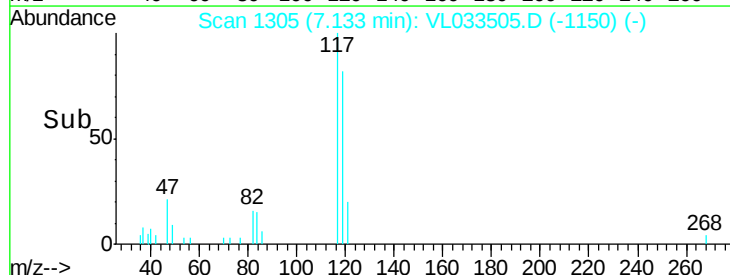
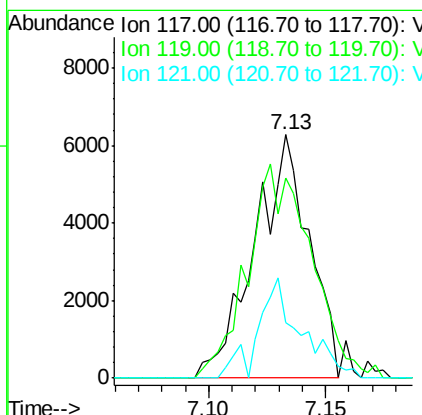
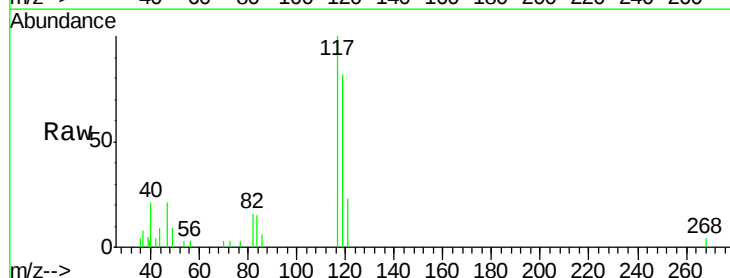
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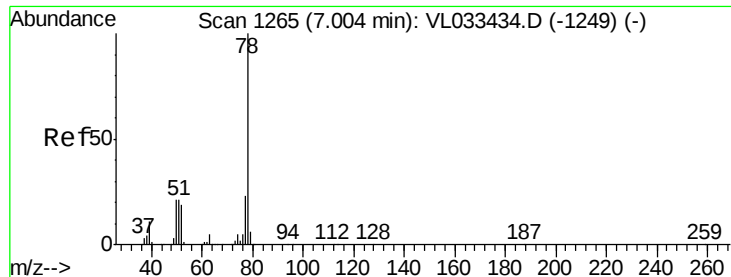
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#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033505.D
Acq: 29 Mar 2019 16:55

Tgt Ion: 117 Resp: 10180
Ion Ratio Lower Upper
117 100
119 82.2 75.8 113.8
121 22.9 24.7 37.1#





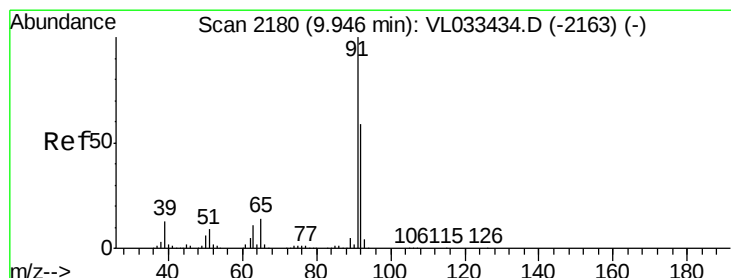
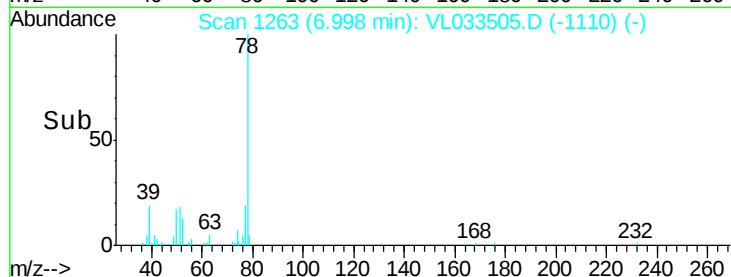
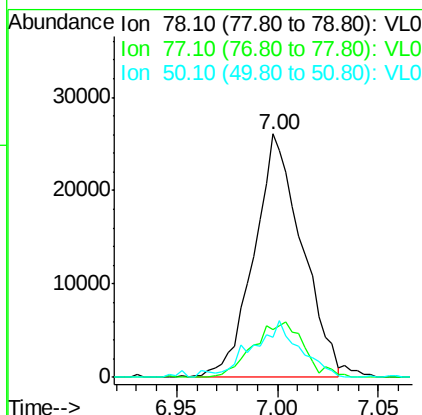
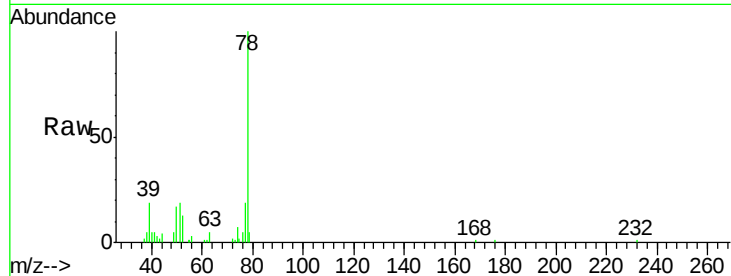
#36
Benzene
Concen: 0.262 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033505.D
Acq: 29 Mar 2019 16:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.5	18.1	27.1
50	16.1	16.7	25.1#

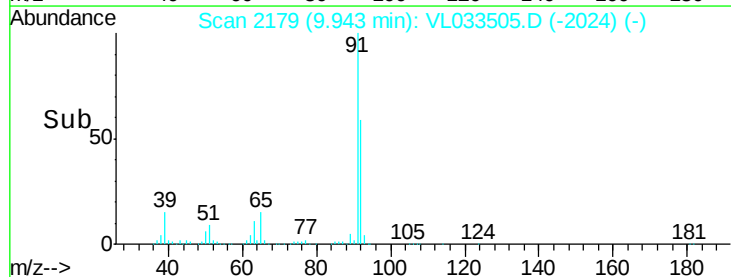
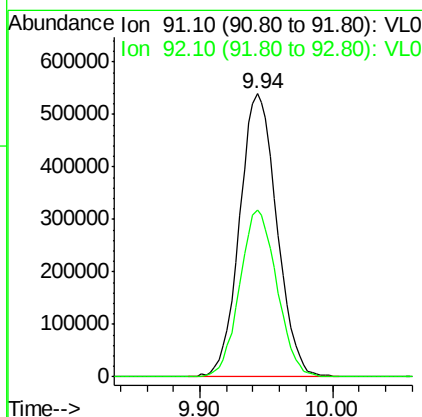
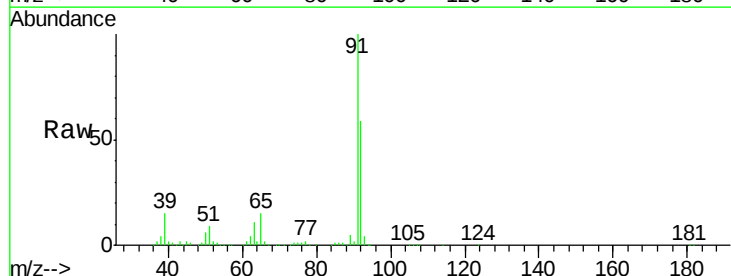
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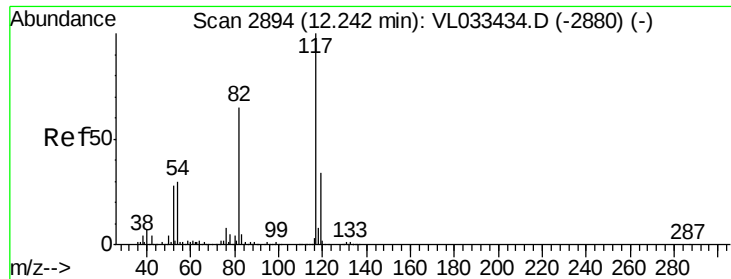
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#53
Toluene
Concen: 5.516 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033505.D
Acq: 29 Mar 2019 16:55

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.4	71.0





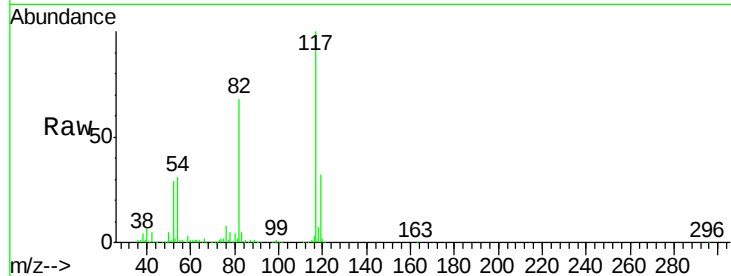
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033505.D
Acq: 29 Mar 2019 16:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-RM

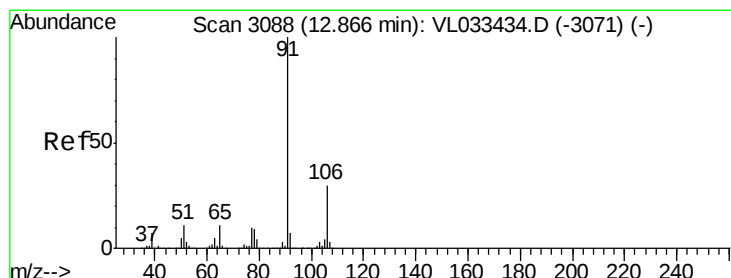
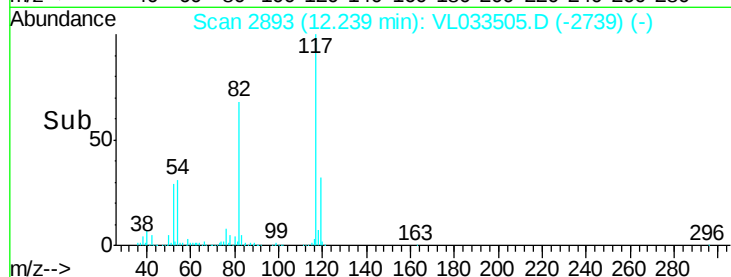
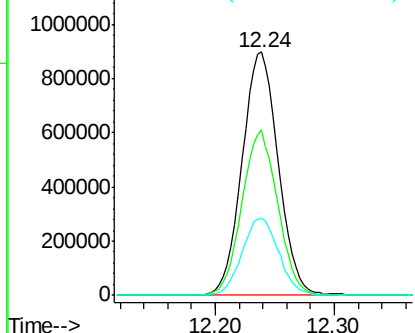
Tot Ion	Ratio	Lower	Upper
117	100		
82	67.3	51.5	77.3
119	32.2	25.5	38.3

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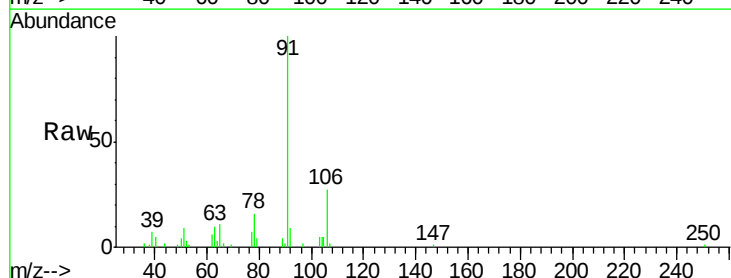


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

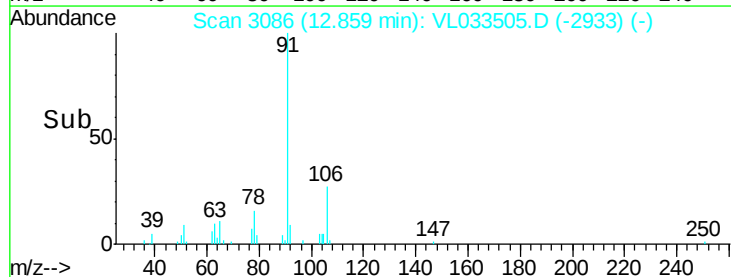
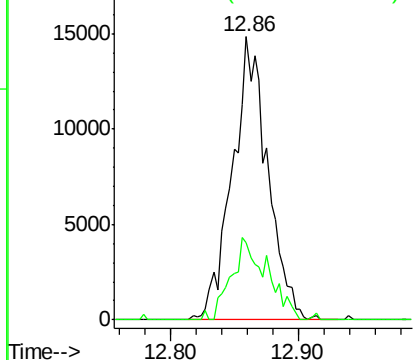


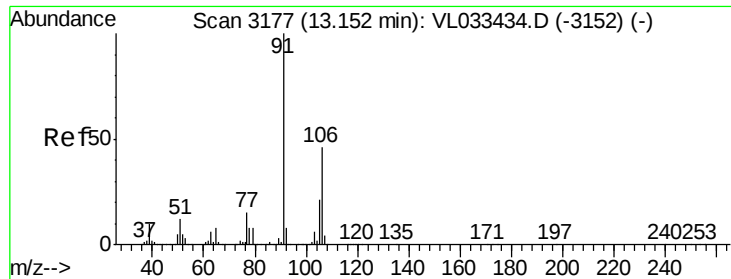
#58
Ethyl Benzene
Concen: 0.112 ppbv m
RT: 12.86 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL033505.D
Acq: 29 Mar 2019 16:55

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.4	23.8	35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





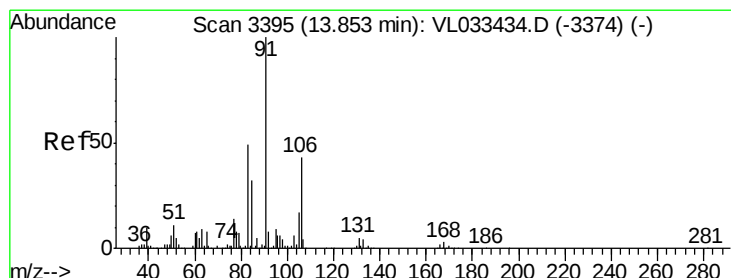
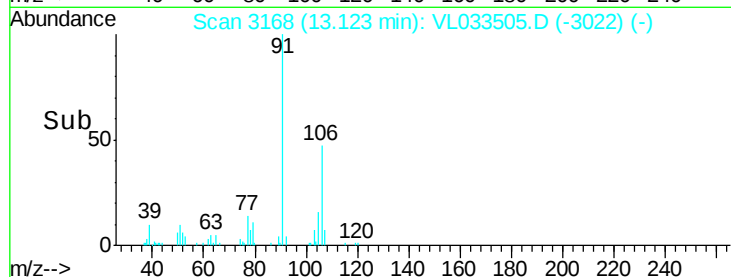
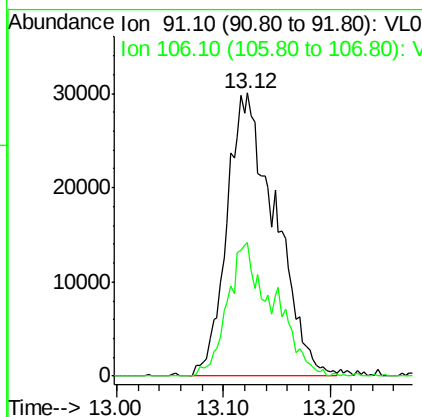
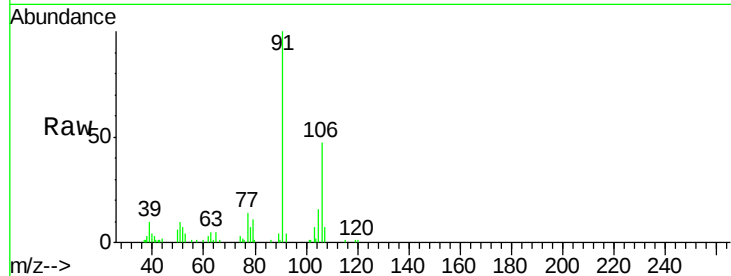
#59
m/p-Xylene
Concen: 0.419 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL033505.D
Acq: 29 Mar 2019 16:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-RM

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	0.0	0.0

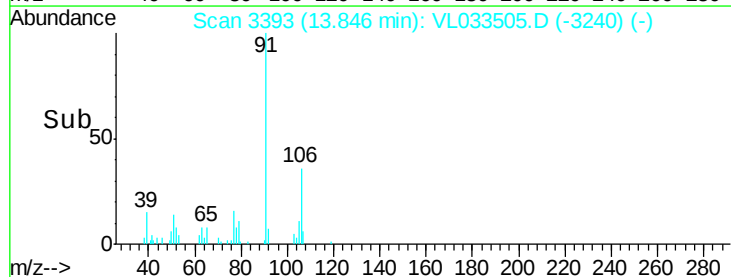
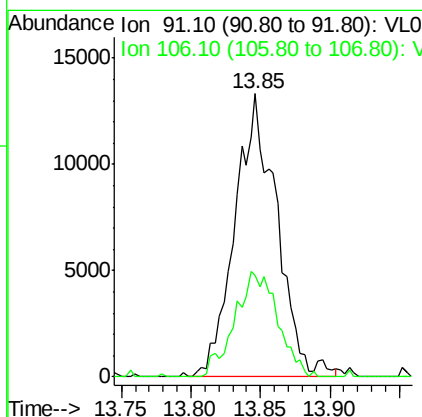
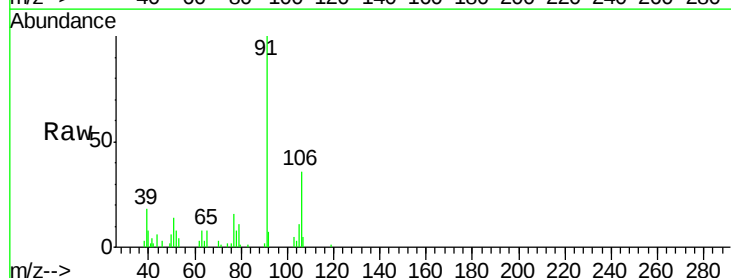
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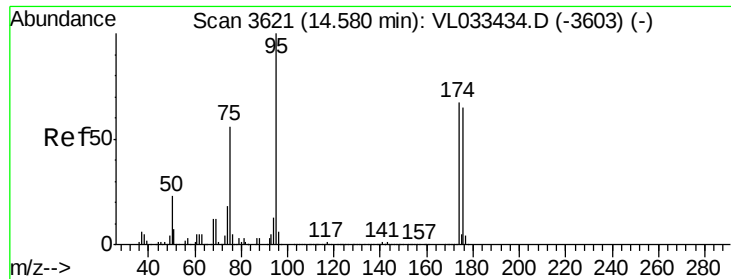
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#60
o-Xylene
Concen: 0.128 ppbv m
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033505.D
Acq: 29 Mar 2019 16:55

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	21.4	64.3#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.955 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033505.D
 Acq: 29 Mar 2019 16:55

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-RM

Tot Ion: 95 Resp: 1474863
 Ion Ratio Lower Upper
 95 100
 174 66.0 52.9 79.3
 175 4.9 3.8 5.6

Manual Integrations
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