

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033527.D
 Acq On : 30 Mar 2019 7:35
 Operator : SY/AP
 Sample : K2042-16
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-4-STORAGE-RM-BY-THE-CAFE

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:35 AM

Quant Time: Mar 31 01:05:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue 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	749626	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1719839	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1721820	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1352657	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	52358	0.479	ppbv	98
4) Chloromethane	3.17	50	29105	0.637	ppbv #	87
9) Propene	3.04	41	31537m	0.870	ppbv	
11) Trichlorofluoromethane	4.00	101	39701	0.295	ppbv	94
13) Ethanol	3.65	45	2049392	218.518	ppbv	65
15) Acetone	3.90	43	580056	6.435	ppbv	98
19) Isopropyl Alcohol	4.03	45	664856	11.662	ppbv #	98
20) Methylene Chloride	4.41	84	298355	7.798	ppbv	94
26) Hexane	5.78	57	214062	2.879	ppbv #	41
34) 2-Butanone	5.34	43	31885	0.309	ppbv	97
35) Carbon Tetrachloride	7.13	117	9320m	0.077	ppbv	
36) Benzene	7.00	78	37172	0.258	ppbv	97
53) Toluene	9.94	91	997759	5.950	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	26252	0.115	ppbv #	64

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

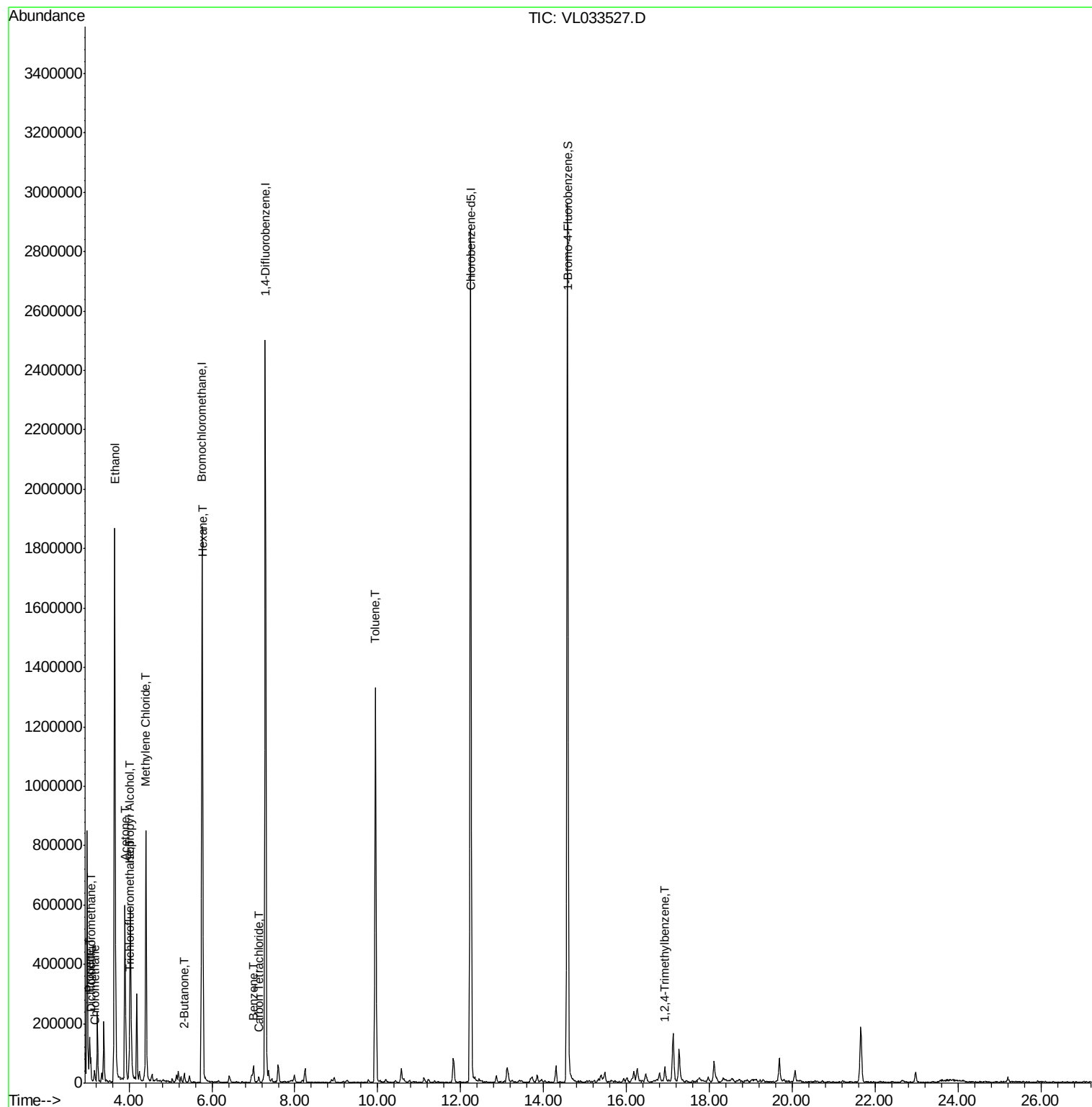
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032919\
Data File : VL033527.D
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Misc : 400ml/MSVOA L
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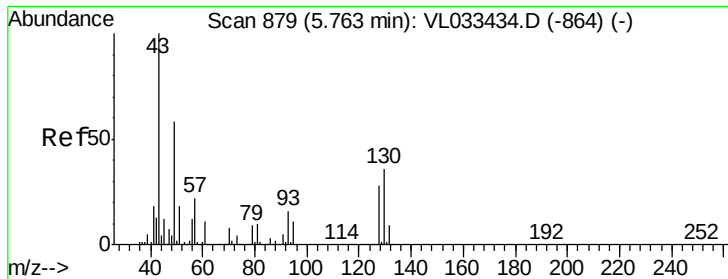
Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Manual Integrations
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4/1/2019 4:03:35 AM

Quant Time: Mar 31 01:05:22 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: VL033527.D

Acq: 30 Mar 2019 7:35

Instrument :

MSVOA_L

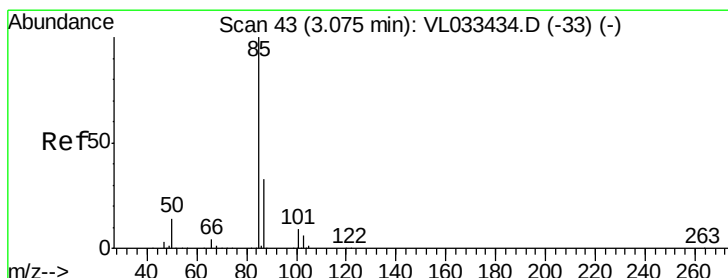
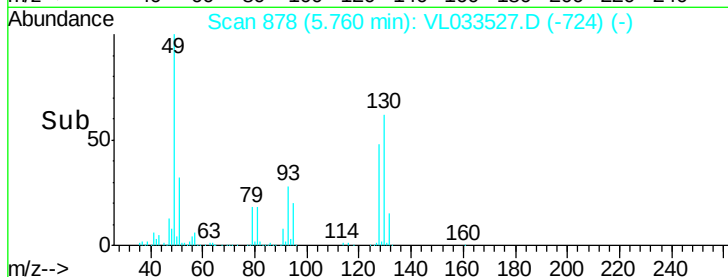
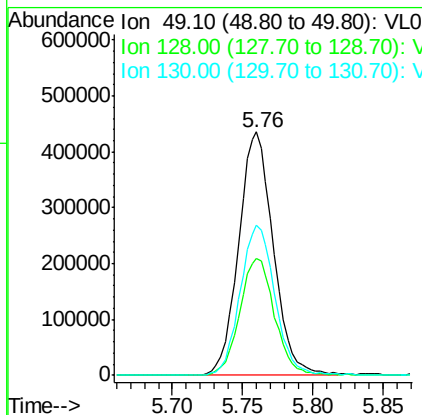
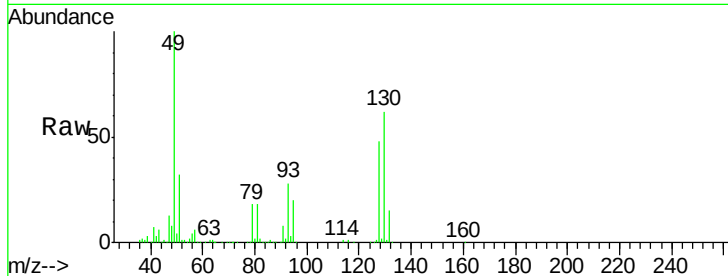
ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion:	49	Resp:	749626
Ion	Ratio	Lower	Upper
49	100		
128	48.5	24.0	72.0
130	62.4	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.479 ppbv

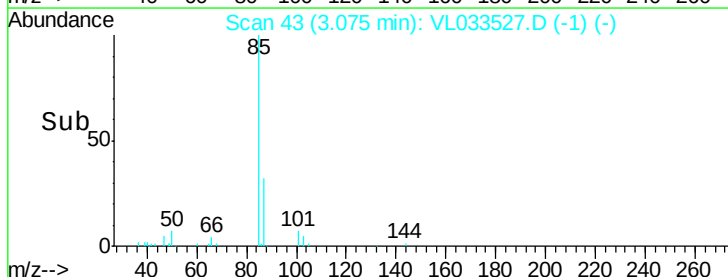
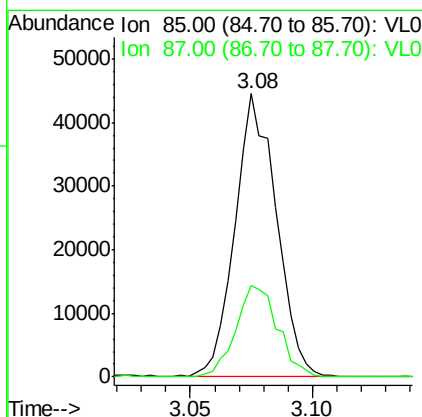
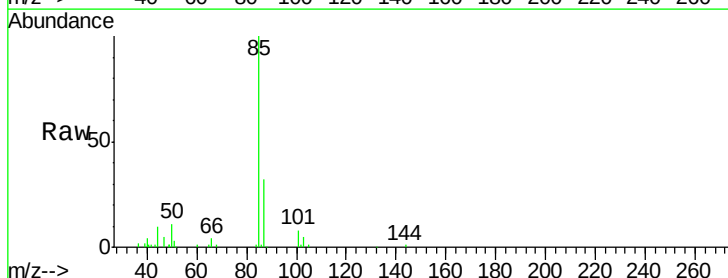
RT: 3.08 min Scan# 43

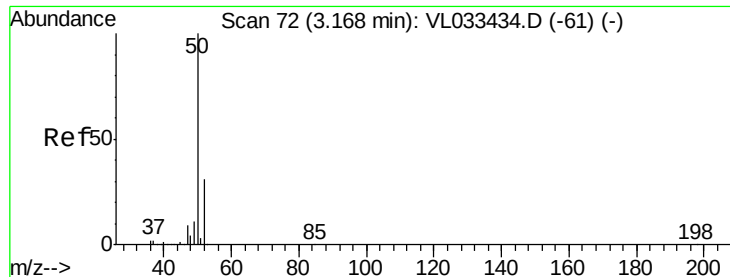
Delta R.T. -0.00 min

Lab File: VL033527.D

Acq: 30 Mar 2019 7:35

Tgt Ion:	85	Resp:	52358
Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.7	40.1





#4

Chloromethane

Concen: 0.637 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL033527.D

Acq: 30 Mar 2019 7:35

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 50 Resp: 29105

Ion Ratio Lower Upper

50 100

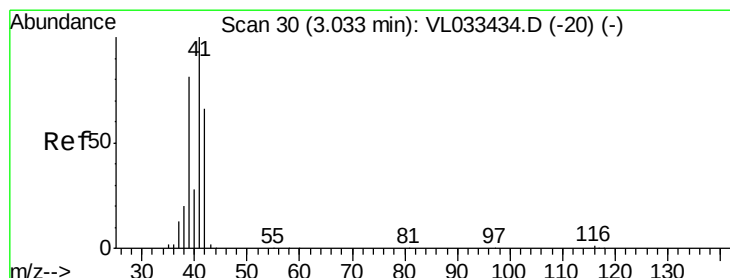
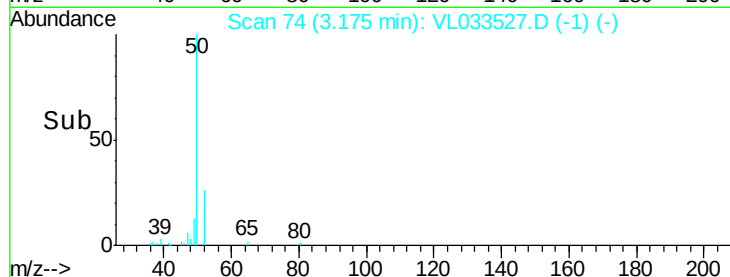
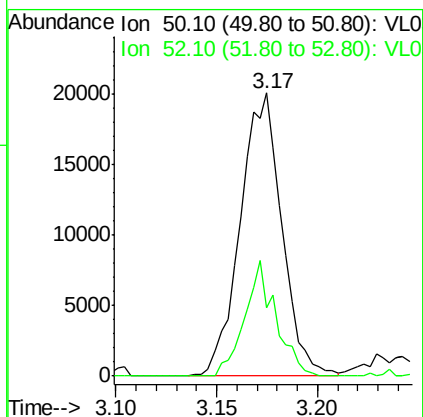
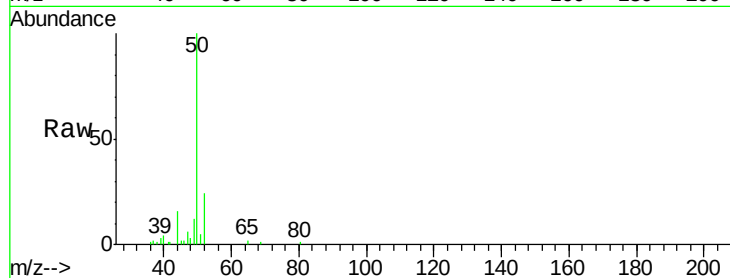
52 24.1 25.0 37.6#

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#9

Propene

Concen: 0.870 ppbv m

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033527.D

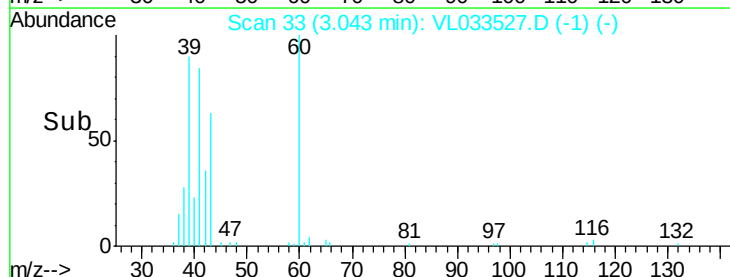
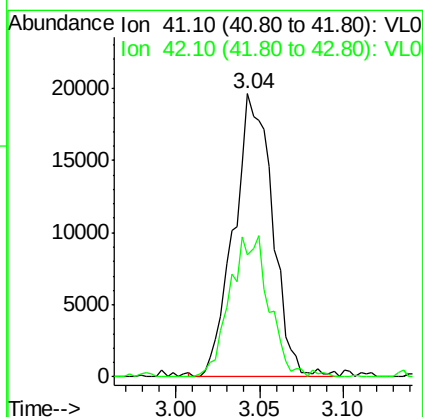
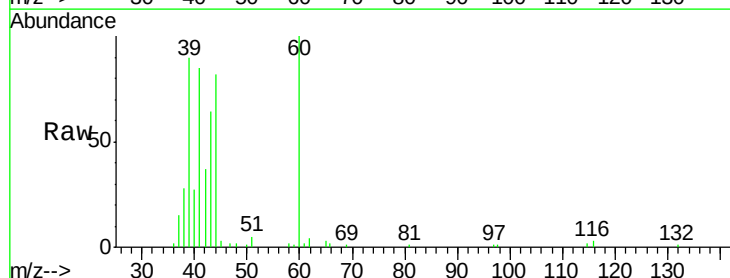
Acq: 30 Mar 2019 7:35

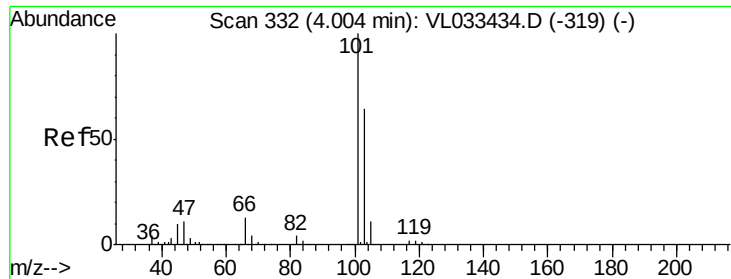
Tgt Ion: 41 Resp: 31537

Ion Ratio Lower Upper

41 100

42 124.3 53.9 80.9#





#11

Trichlorofluoromethane

Concen: 0.295 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033527.D

Acq: 30 Mar 2019 7:35

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion:101 Resp: 39701

Ion Ratio Lower Upper

101 100

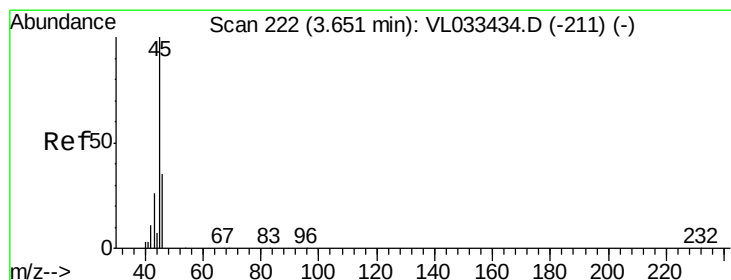
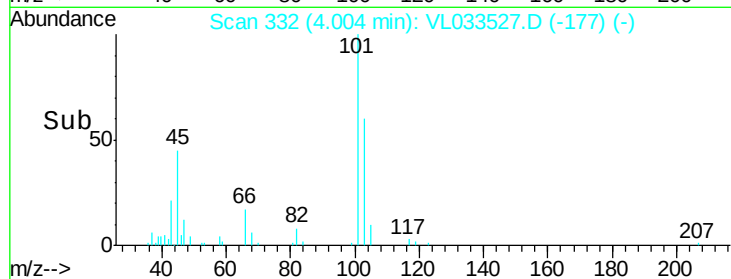
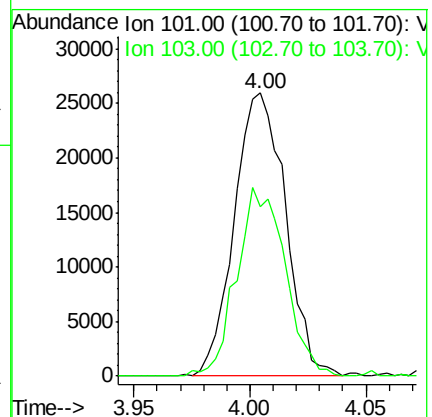
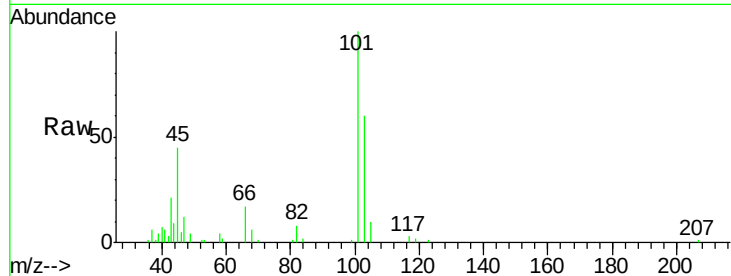
103 59.7 51.3 76.9

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#13

Ethanol

Concen: 218.518 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033527.D

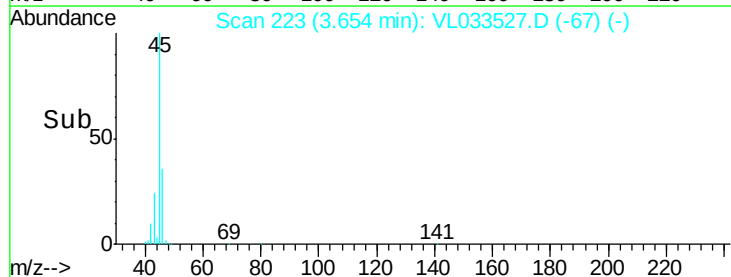
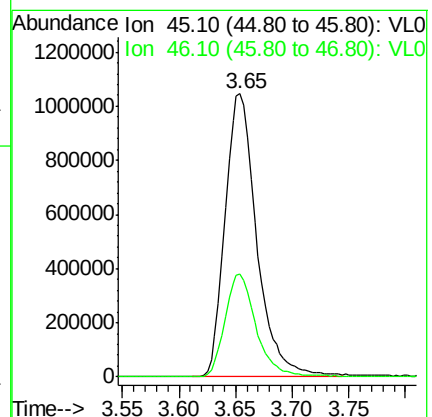
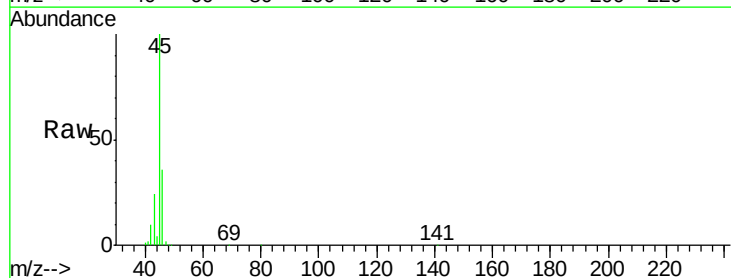
Acq: 30 Mar 2019 7:35

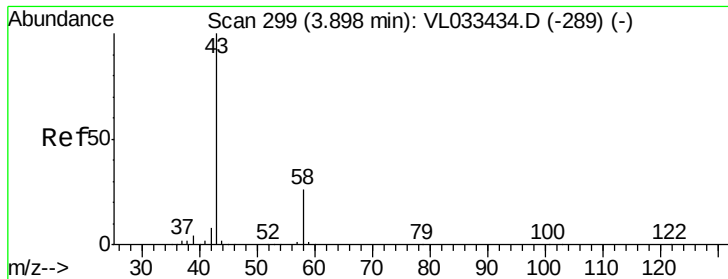
Tgt Ion: 45 Resp: 2049392

Ion Ratio Lower Upper

45 100

46 36.1 25.4 101.8





#15

Acetone

Concen: 6.435 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033527.D

Acq: 30 Mar 2019 7:35

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 43 Resp: 580056

Ion Ratio Lower Upper

43 100

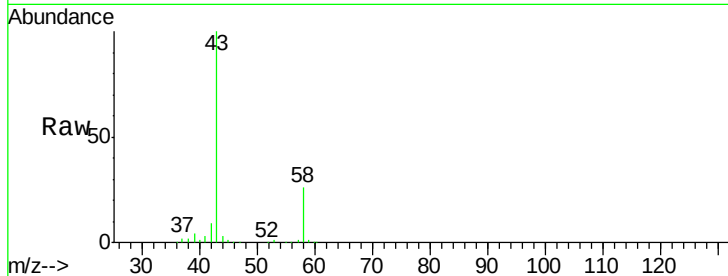
58 26.5 20.5 30.7

Manual Integrations

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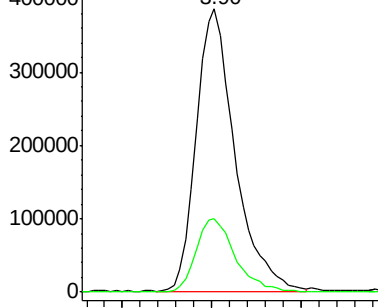
MMDadoda

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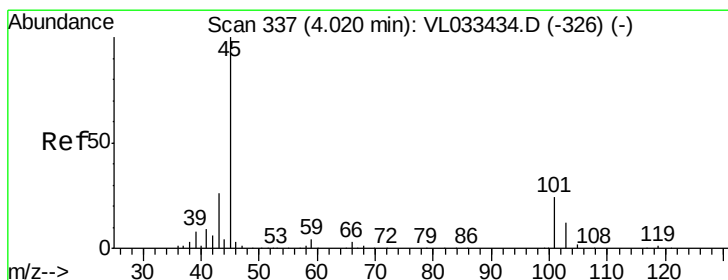
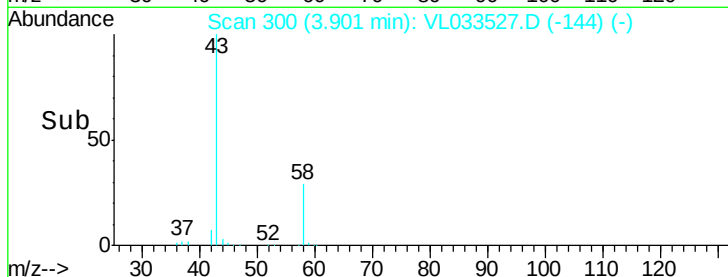


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->



#19

Isopropyl Alcohol

Concen: 11.662 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033527.D

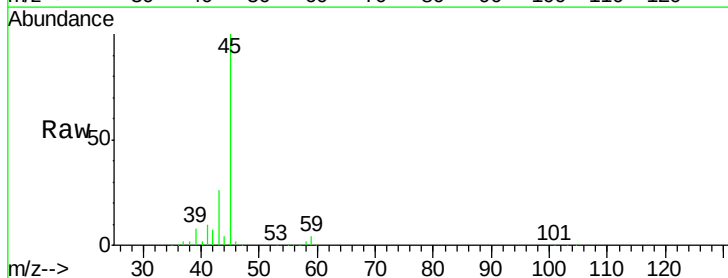
Acq: 30 Mar 2019 7:35

Tgt Ion: 45 Resp: 664856

Ion Ratio Lower Upper

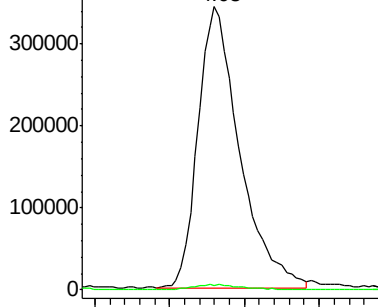
45 100

58 2.5 1.4 2.2#

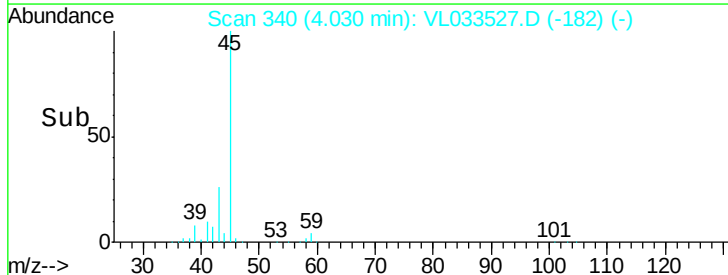


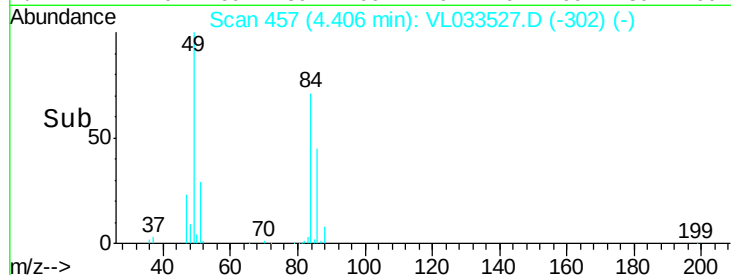
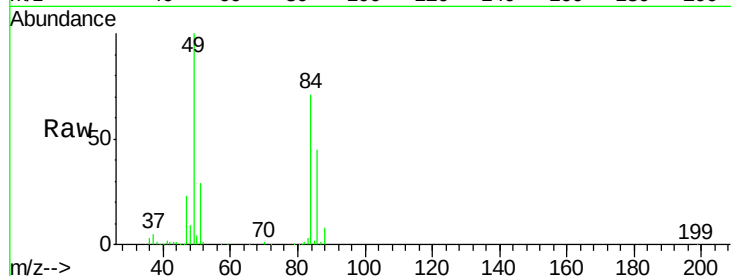
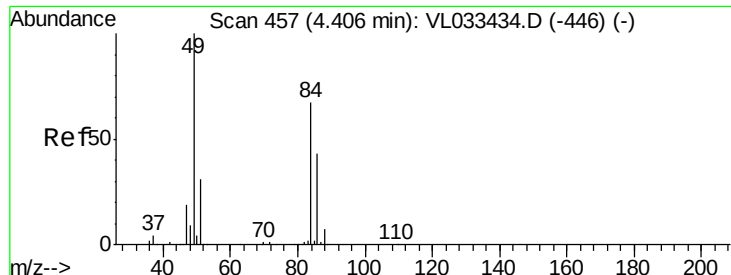
Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->





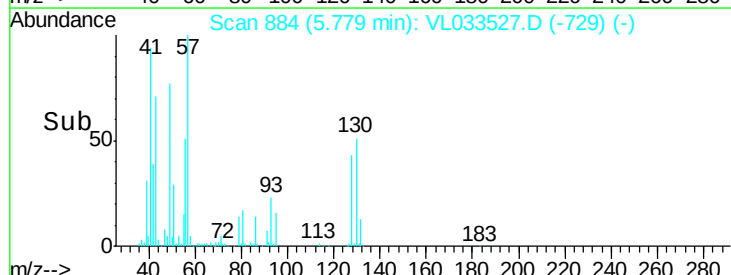
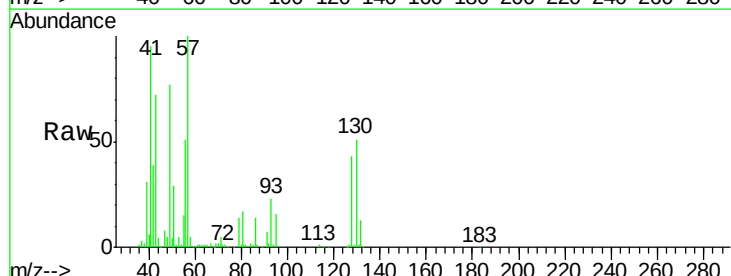
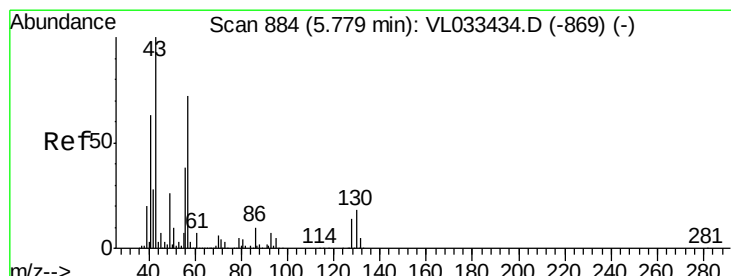
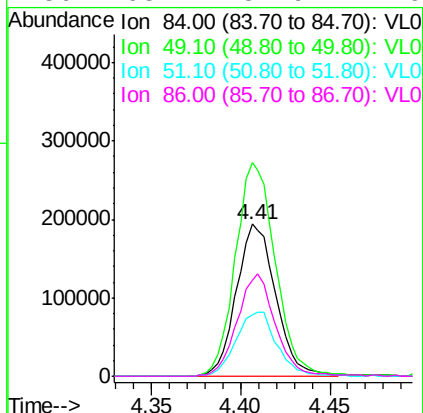
#20
Methvlene Chloride
Concen: 7.798 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033527.D
Acq: 30 Mar 2019 7:35

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	140.5		120.0	180.0	
51	41.6		36.7	55.1	
86	63.1		51.9	77.9	

Instrument :
MSVOA_L
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IAS-4-STORAGE-RM-BY-THE-CAFE

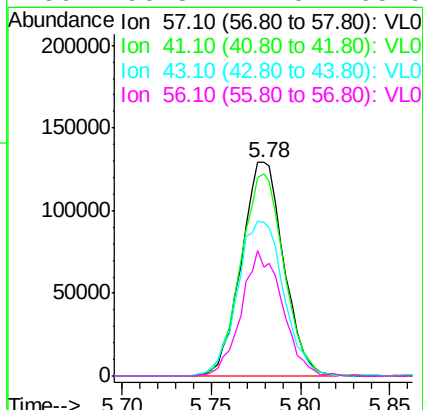
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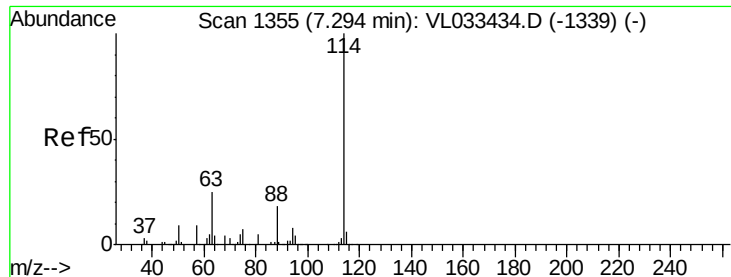
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#26
Hexane
Concen: 2.879 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033527.D
Acq: 30 Mar 2019 7:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	97.0		70.7	106.1	
43	79.3		182.6	274.0#	
56	56.8		42.0	63.0	





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033527.D

Acq: 30 Mar 2019 7:35

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion:114 Resp: 1719839

Ion Ratio Lower Upper

114 100

63 27.0 21.5 32.3

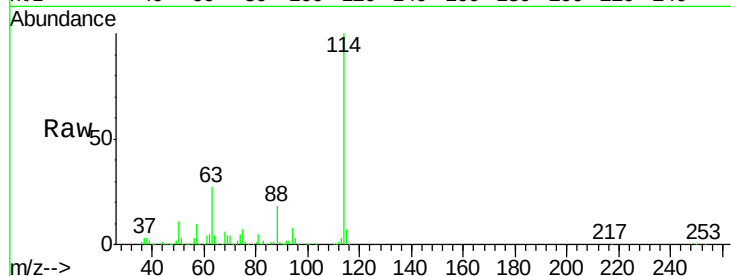
88 18.2 14.5 21.7

Manual Integrations

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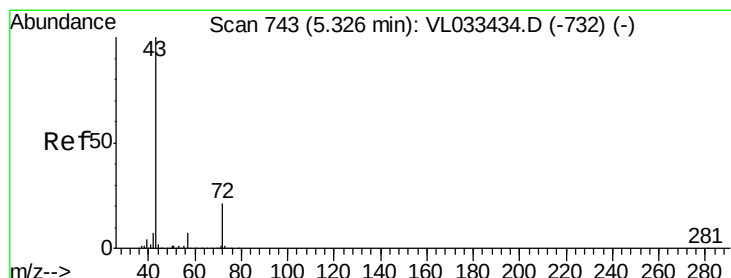
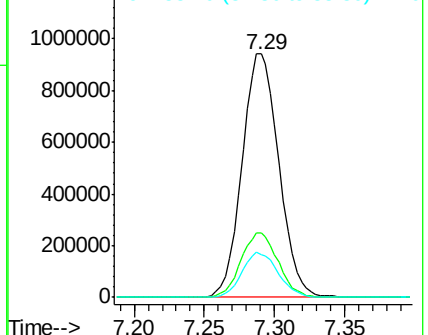
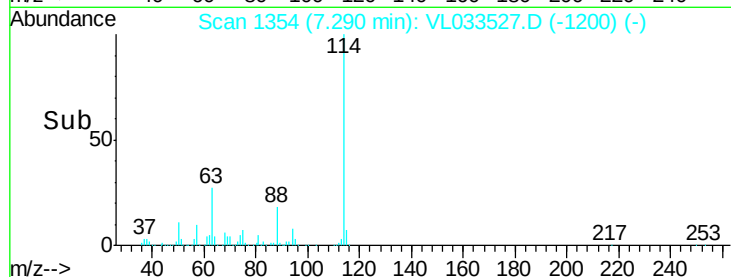
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.309 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.01 min

Lab File: VL033527.D

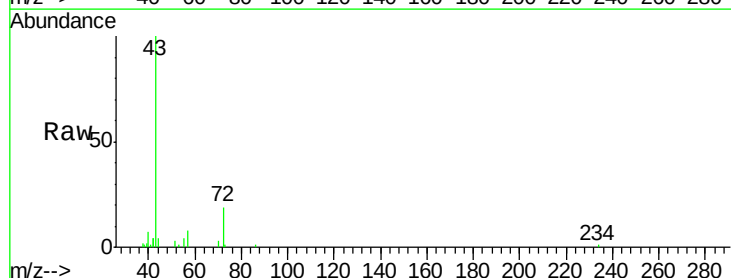
Acq: 30 Mar 2019 7:35

Tgt Ion: 43 Resp: 31885

Ion Ratio Lower Upper

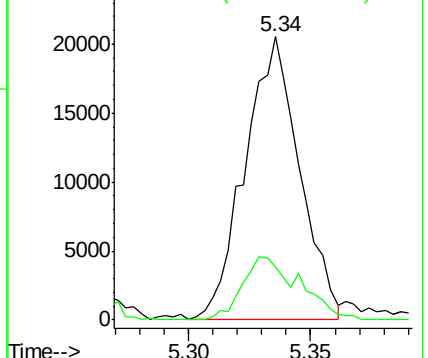
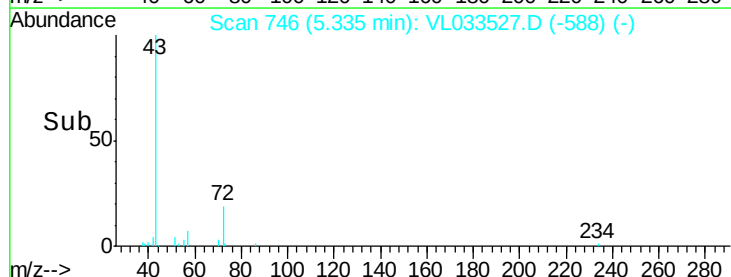
43 100

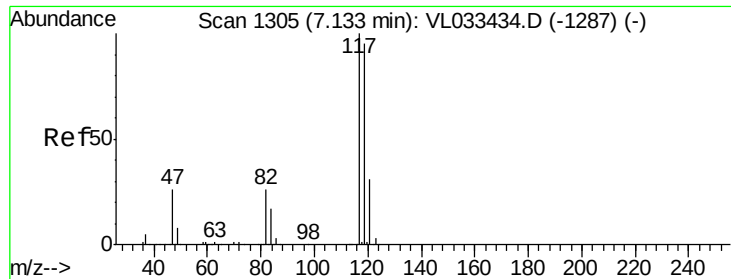
72 23.3 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





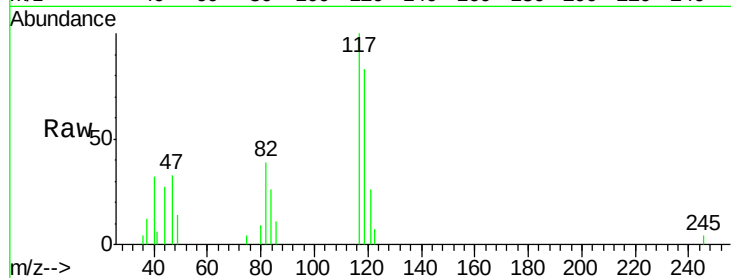
#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033527.D
Acq: 30 Mar 2019 7:35

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion	Ratio	Lower	Upper
117	100		
119	82.8	75.8	113.8
121	26.3	24.7	37.1

Manual Integrations
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4/1/2019 4:03:35 AM

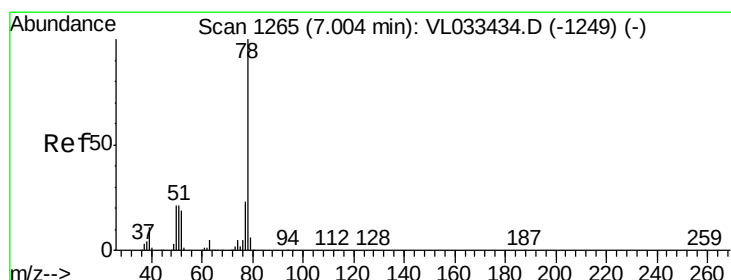
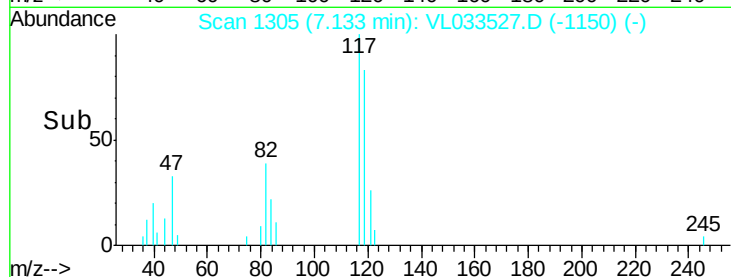
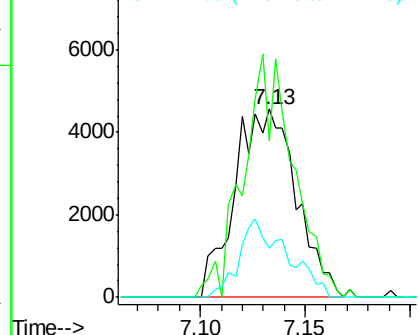


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 0.258 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VL033527.D
Acq: 30 Mar 2019 7:35

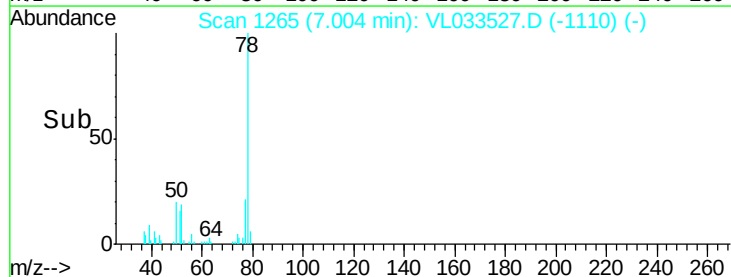
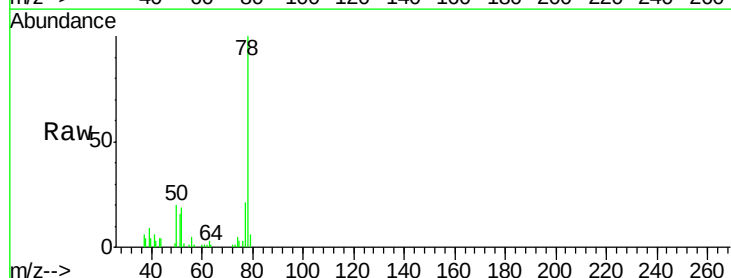
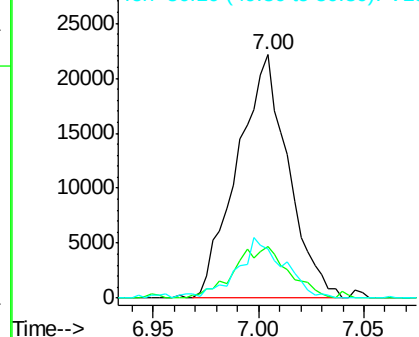
Tgt Ion	Ratio	Lower	Upper
78	100		
77	20.1	18.1	27.1
50	20.3	16.7	25.1

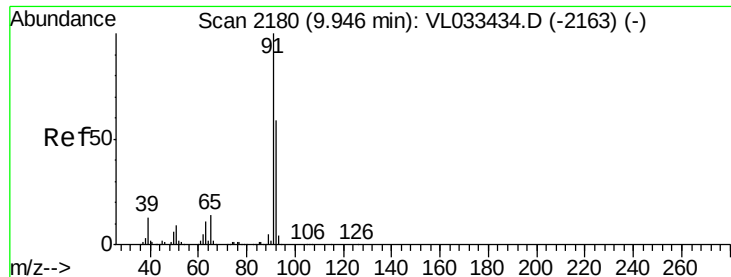
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#53

Toluene

Concen: 5.950 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033527.D

Acq: 30 Mar 2019 7:35

Instrument :

MSVOA_L

ClientSampleId :

IAS-4-STORAGE-RM-BY-THE-CAFE

Tot Ion: 91 Resp: 997759

Ion Ratio Lower Upper

91 100

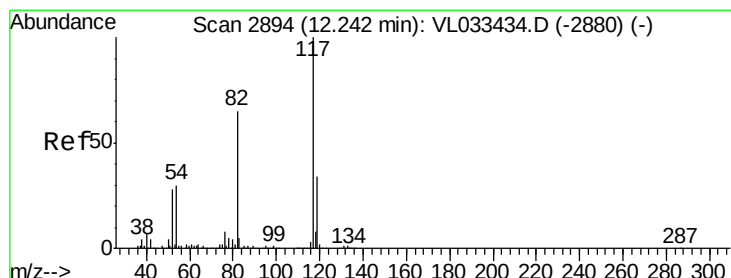
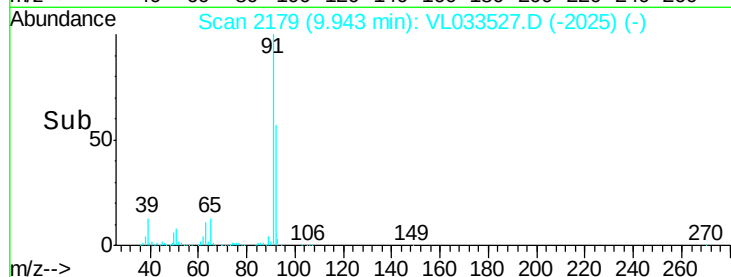
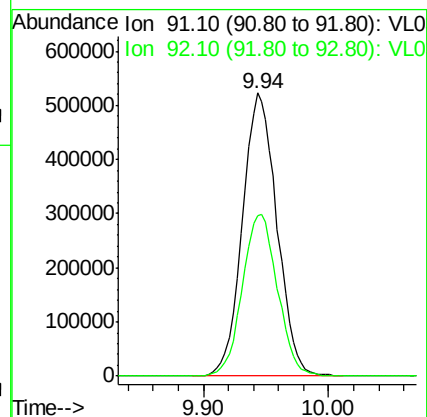
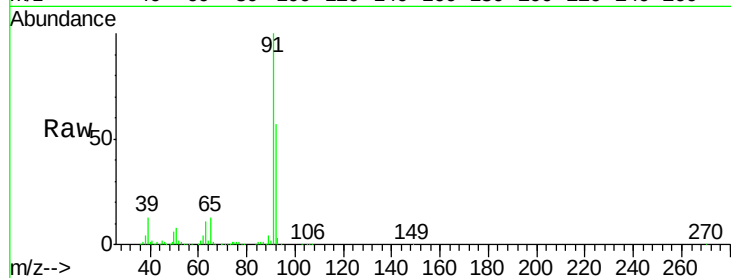
92 58.5 47.4 71.0

Manual Integrations

APPROVED

MMDadoda

4/1/2019 4:03:35 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL033527.D

Acq: 30 Mar 2019 7:35

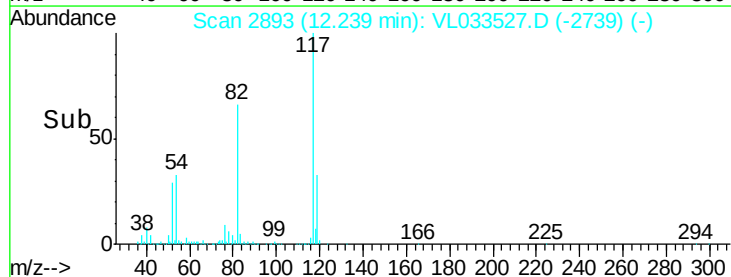
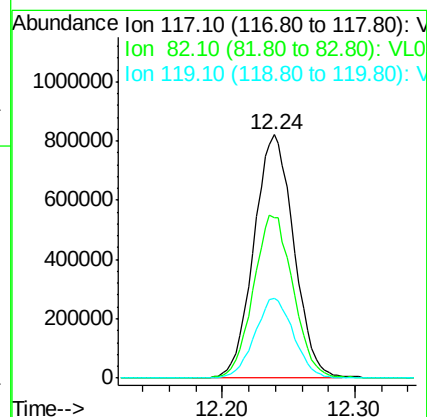
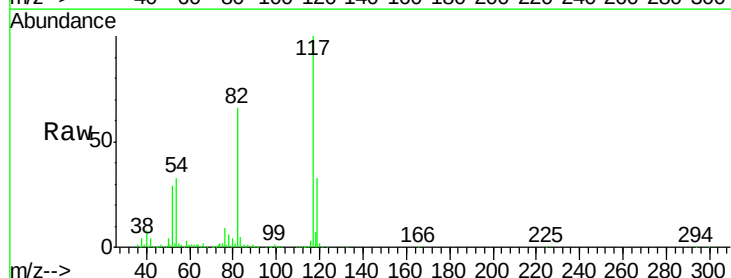
Tgt Ion: 117 Resp: 1721820

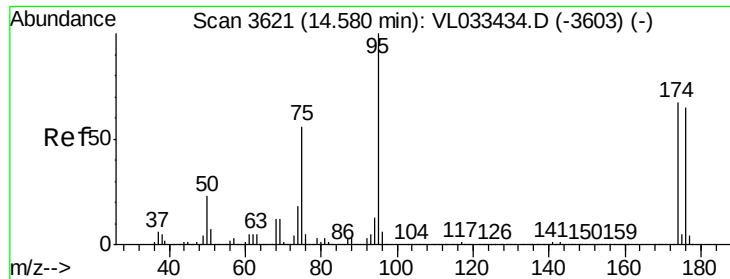
Ion Ratio Lower Upper

117 100

82 67.4 51.5 77.3

119 32.1 25.5 38.3





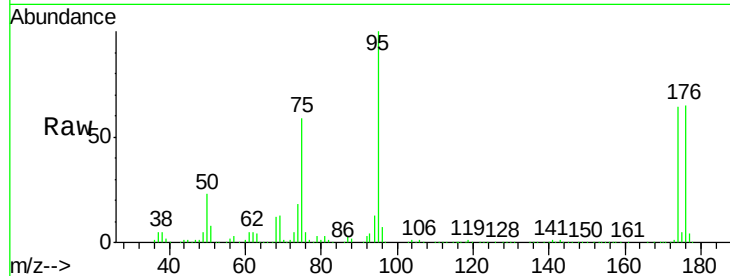
#68
1-Bromo-4-Fluorobenzene
Concen: 10.021 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL033527.D
Acq: 30 Mar 2019 7:35

Instrument :
MSVOA_L
ClientSampleId :
IAS-4-STORAGE-RM-BY-THE-CAFE

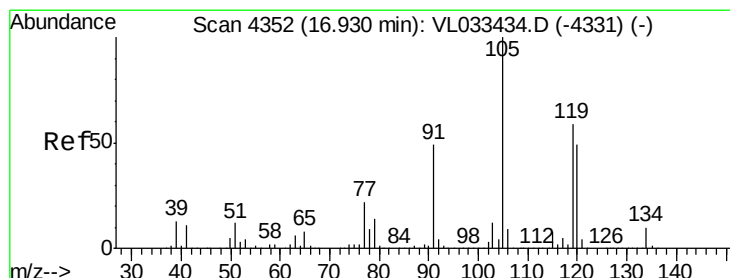
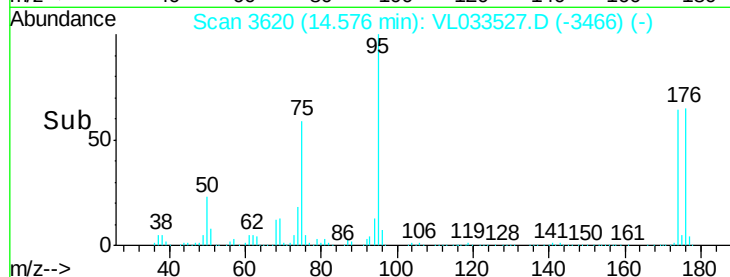
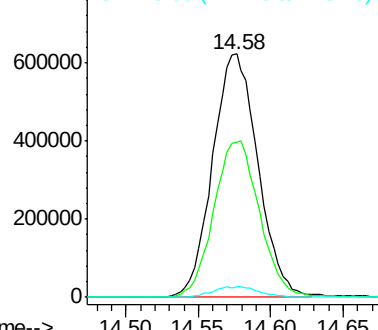
Tot Ion: 95 Resp: 1352657
Ion Ratio Lower Upper
95 100
174 65.4 52.9 79.3
175 4.6 3.8 5.6

Manual Integrations
APPROVED

MMDadoda
4/1/2019 4:03:35 AM



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#74
1,2,4-Trimethylbenzene
Concen: 0.115 ppbv
RT: 16.93 min Scan# 4351
Delta R.T. -0.00 min
Lab File: VL033527.D
Acq: 30 Mar 2019 7:35

Tgt Ion:105 Resp: 26252
Ion Ratio Lower Upper
105 100
120 34.6 39.0 58.6#
91 10.4 40.0 60.0#
77 12.7 17.5 26.3#

Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0

