

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033470.D
 Acq On : 27 Mar 2019 16:05
 Operator : SY/AP
 Sample : K2042-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NEXT-TO-GUIDANCE-RM

Manual Integrations
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 4/1/2019 1:25:49 AM

Quant Time: Mar 31 11:08:23 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	696801	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1607725	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1579728	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1267231	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	28438	0.280	ppbv	99
4) Chloromethane	3.17	50	31042	0.731	ppbv	98
9) Propene	3.05	41	31058m	0.922	ppbv	
10) Heptane	8.24	43	14240	0.158	ppbv	99
11) Trichlorofluoromethane	4.00	101	32485	0.259	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7310	0.087	ppbv	91
13) Ethanol	3.65	45	3371475	386.739	ppbv	65
15) Acetone	3.90	43	565940	6.755	ppbv	95
17) tert-Butyl alcohol	4.37	59	10945m	0.710	ppbv	
19) Isopropyl Alcohol	4.03	45	494069	9.323	ppbv #	98
20) Methylene Chloride	4.41	84	34188	0.961	ppbv #	82
26) Hexane	5.77	57	68349	0.989	ppbv #	50
34) 2-Butanone	5.33	43	24166	0.250	ppbv	97
35) Carbon Tetrachloride	7.13	117	9175	0.081	ppbv #	79
36) Benzene	7.00	78	35213	0.261	ppbv	98
52) Tetrachloroethene	11.37	164	95835	1.883	ppbv	92
53) Toluene	9.94	91	922144	5.883	ppbv	100
59) m/p-Xylene	13.12	91	88161m	0.468	ppbv	
60) o-Xylene	13.84	91	22269m	0.122	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033470.D

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Instrument :

MSVOA_L

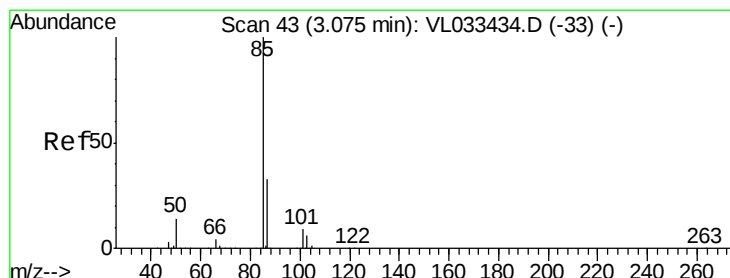
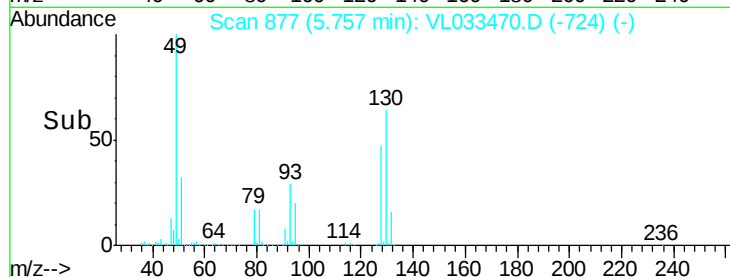
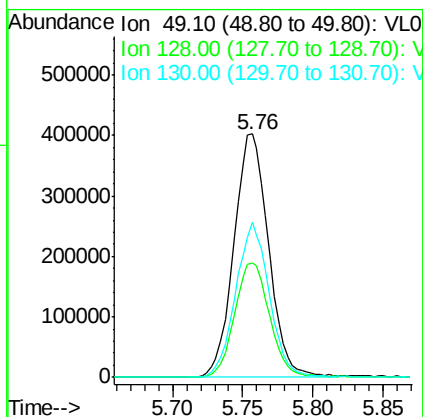
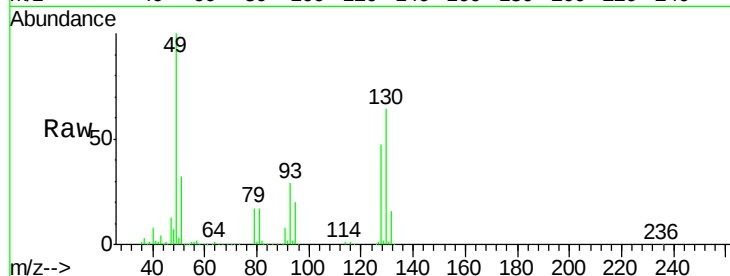
ClientSampleId :

IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion:	49	Resp:	696801
Ion	Ratio	Lower	Upper
49	100		
128	47.9	24.0	72.0
130	62.0	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.280 ppbv

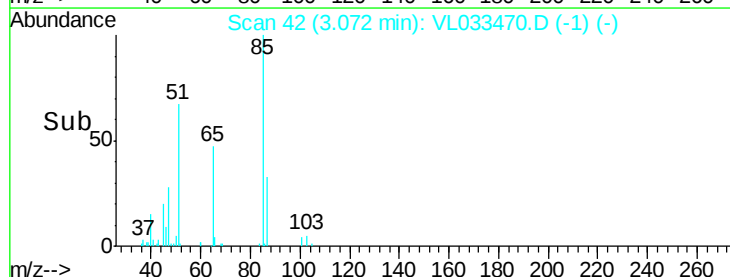
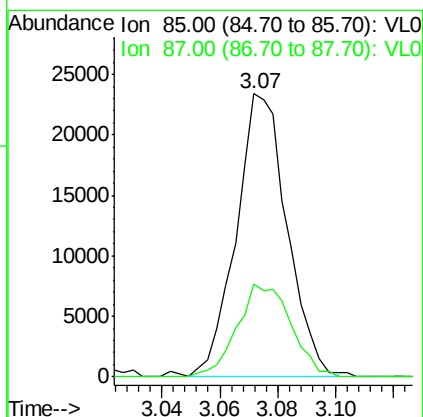
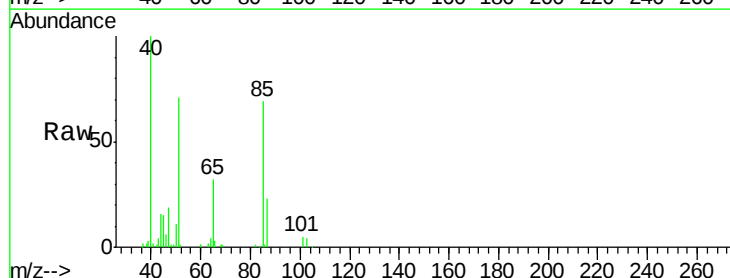
RT: 3.07 min Scan# 42

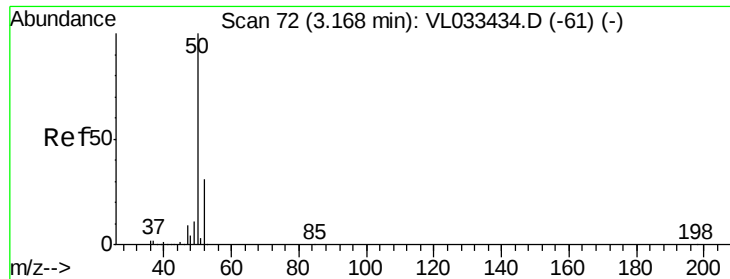
Delta R.T. -0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Tgt Ion:	85	Resp:	28438
Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.7	40.1





#4

Chloromethane

Concen: 0.731 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion: 50 Resp: 31042

Ion Ratio Lower Upper

50 100

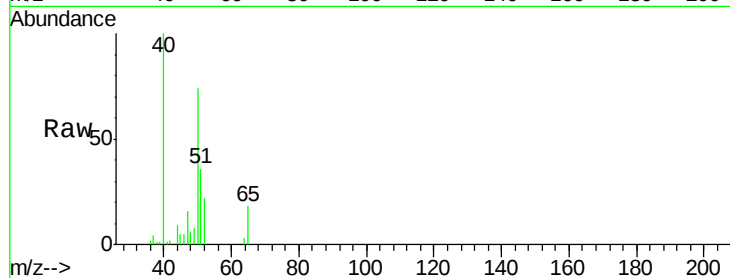
52 30.1 25.0 37.6

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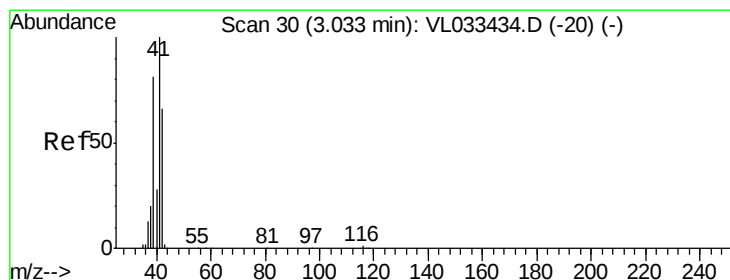
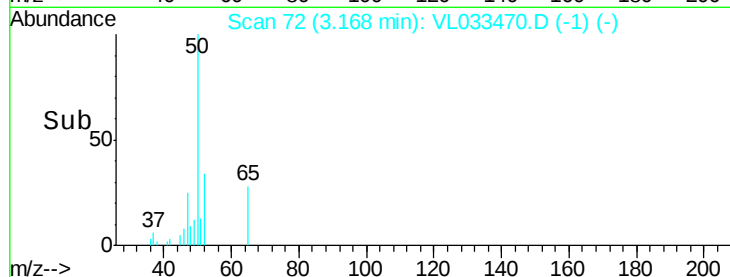
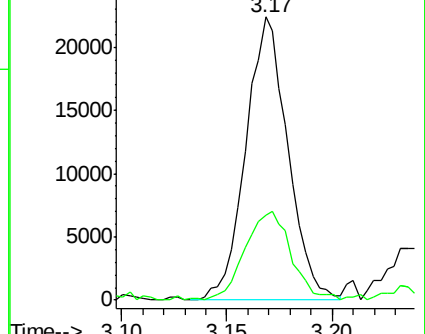
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.922 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033470.D

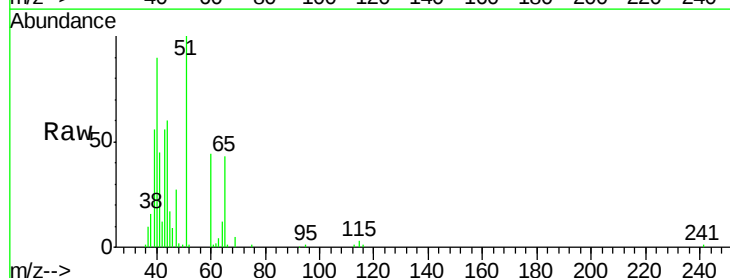
Acq: 27 Mar 2019 16:05

Tgt Ion: 41 Resp: 31058

Ion Ratio Lower Upper

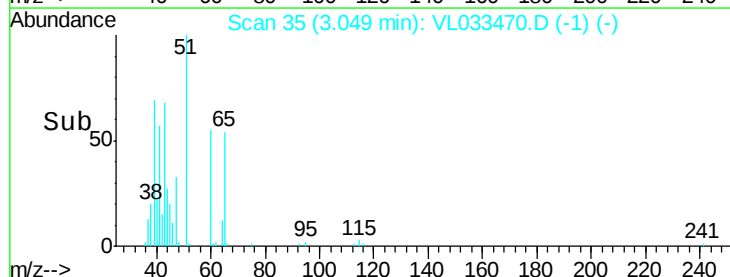
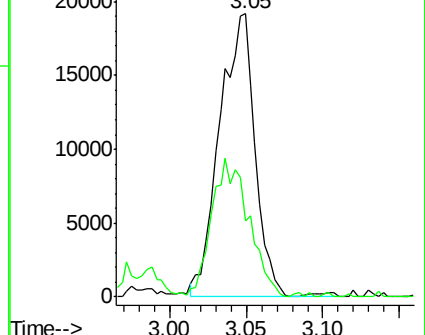
41 100

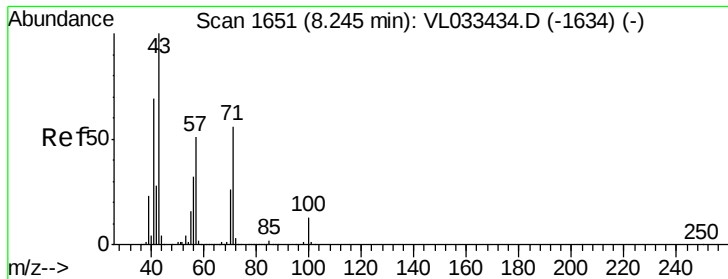
42 511.3 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





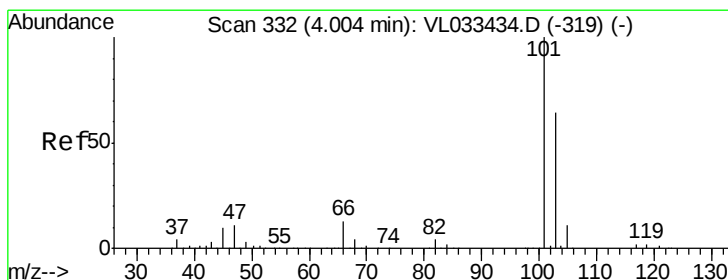
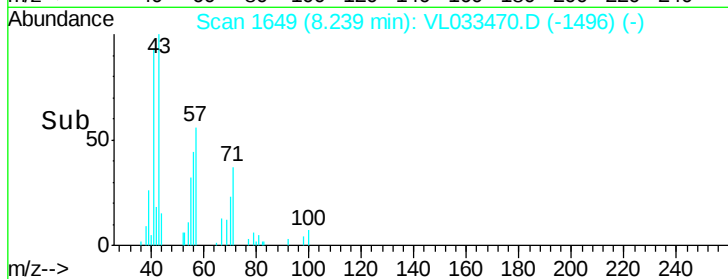
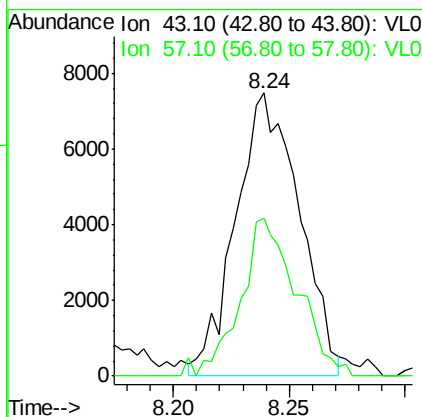
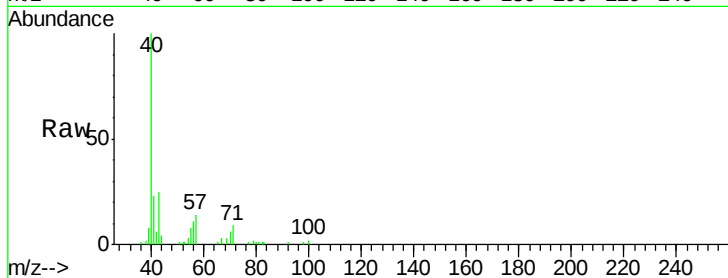
#10
Heptane
Concen: 0.158 ppbv
RT: 8.24 min Scan# 1649
Delta R.T. -0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion: 43 Resp: 14240
Ion Ratio Lower Upper
43 100
57 49.7 40.6 60.8

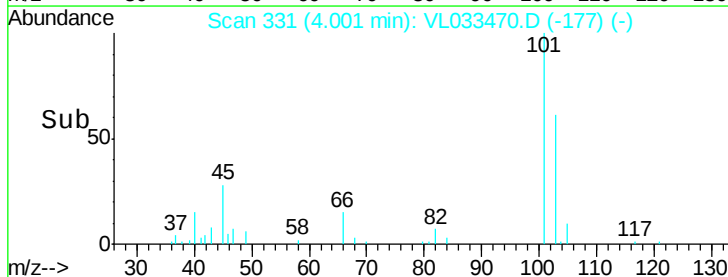
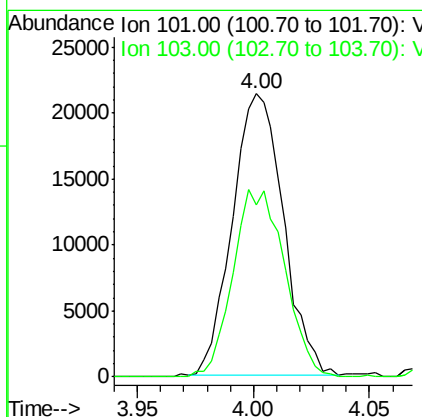
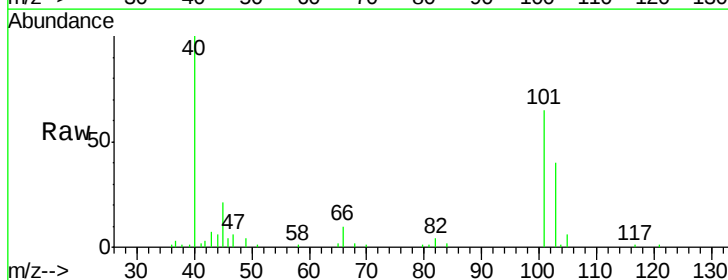
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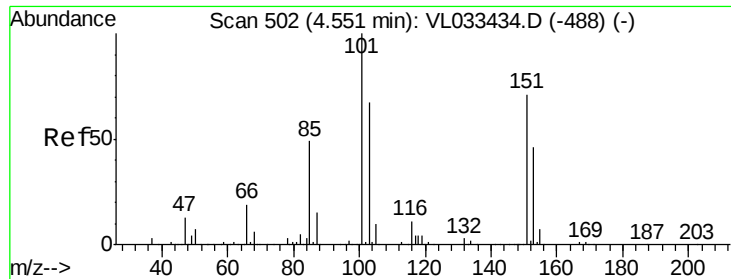
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#11
Trichlorofluoromethane
Concen: 0.259 ppbv
RT: 4.00 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 101 Resp: 32485
Ion Ratio Lower Upper
101 100
103 61.3 51.3 76.9





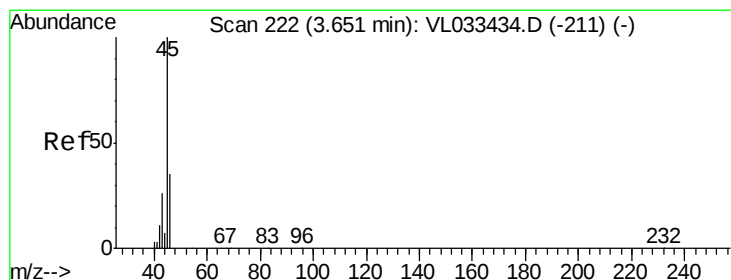
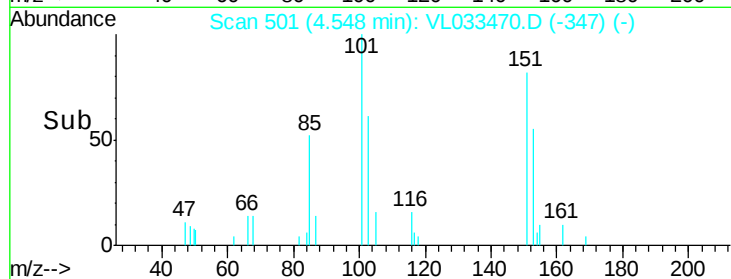
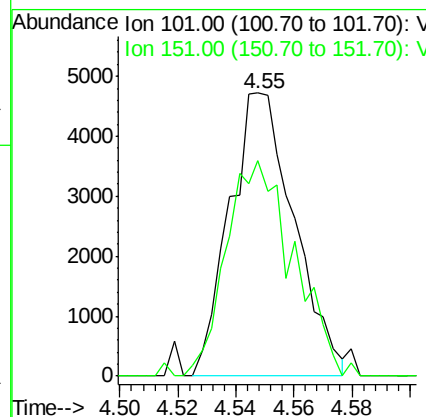
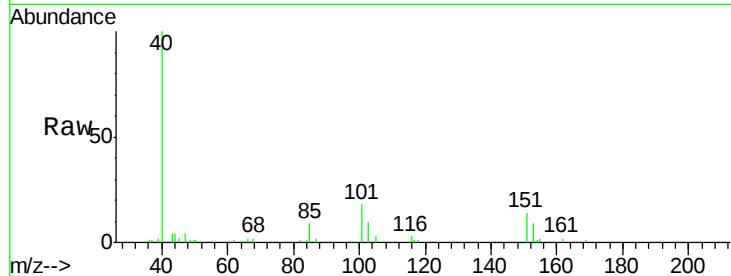
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.087 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.00 min
 Lab File: VL033470.D
 Acq: 27 Mar 2019 16:05

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion:101 Resp: 7310
 Ion Ratio Lower Upper
 101 100
 151 79.8 57.7 86.5

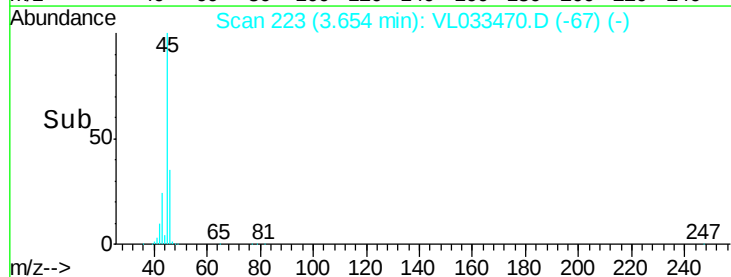
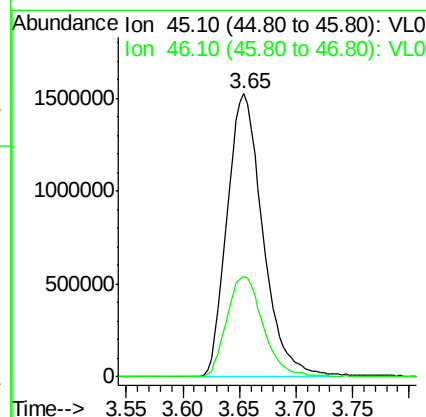
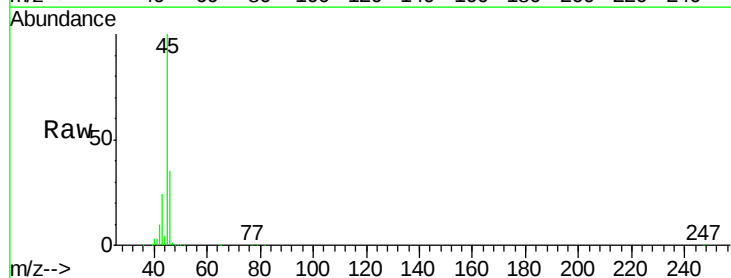
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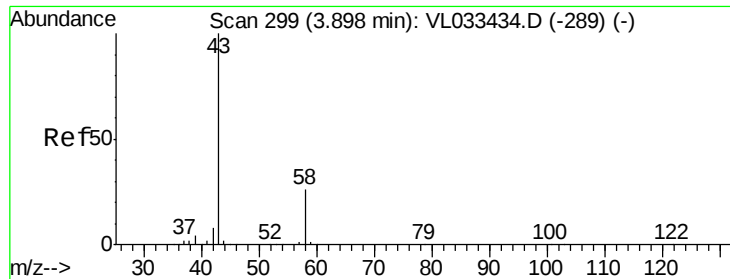
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#13
 Ethanol
 Concen: 386.739 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VL033470.D
 Acq: 27 Mar 2019 16:05

Tgt Ion: 45 Resp: 3371475
 Ion Ratio Lower Upper
 45 100
 46 36.5 25.4 101.8





#15

Acetone

Concen: 6.755 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion: 43 Resp: 565940

Ion Ratio Lower Upper

43 100

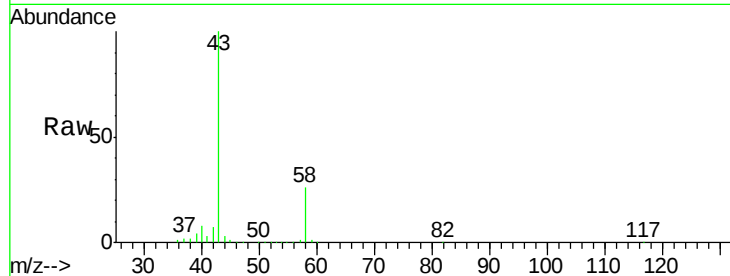
58 28.0 20.5 30.7

Manual Integrations

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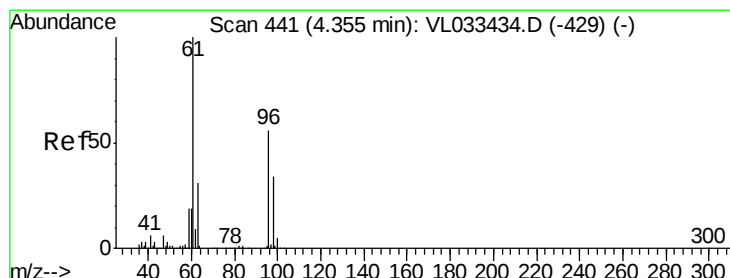
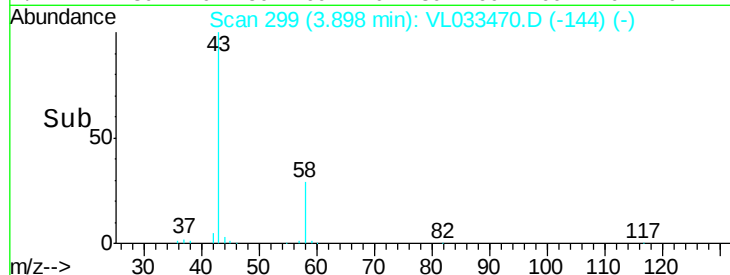
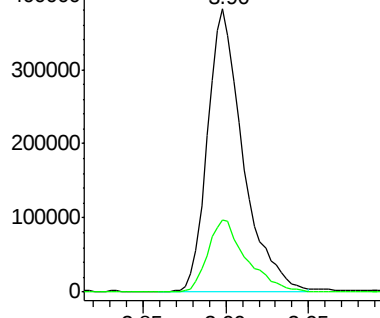
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.710 ppbv m

RT: 4.37 min Scan# 447

Delta R.T. 0.02 min

Lab File: VL033470.D

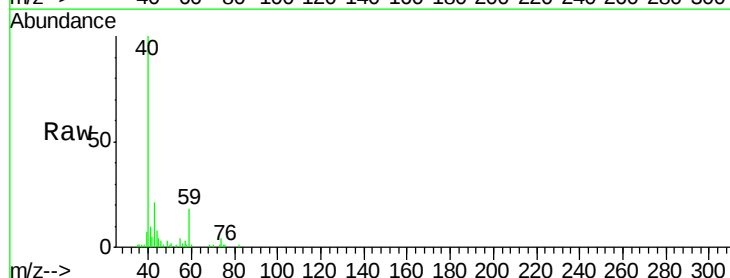
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Tgt Ion: 59 Resp: 10945

Ion Ratio Lower Upper

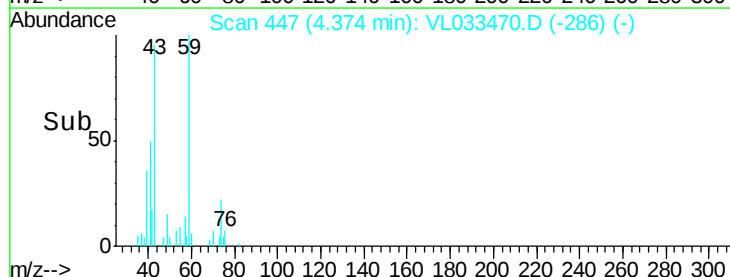
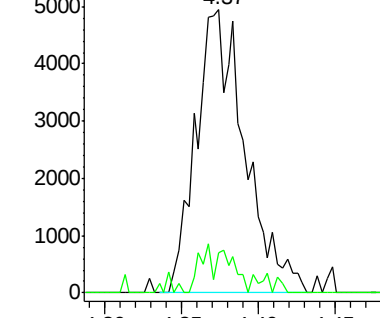
59 100

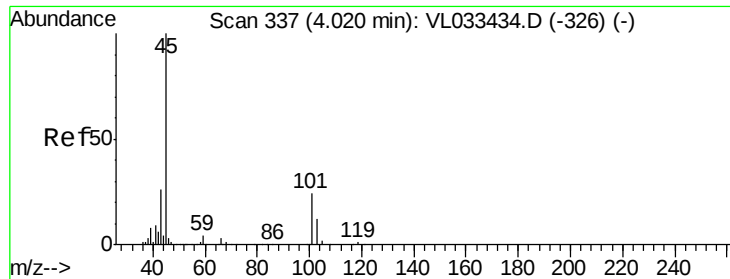
57 0.0 7.8 11.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





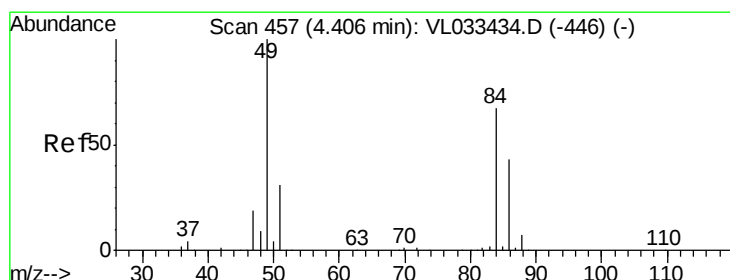
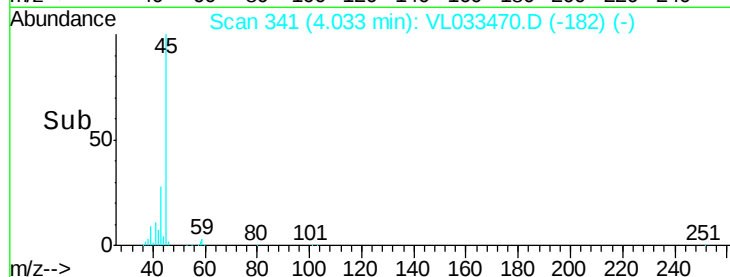
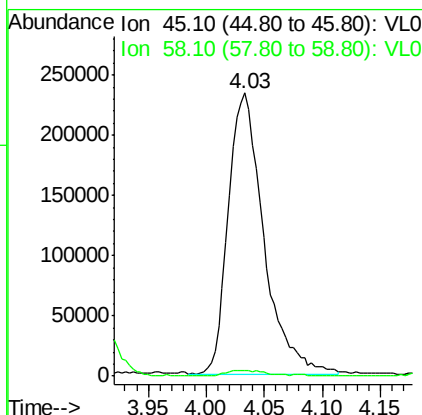
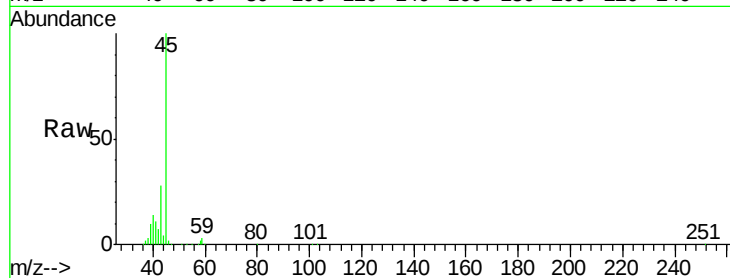
#19
Isopropyl Alcohol
Concen: 9.323 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion: 45 Resp: 494069
Ion Ratio Lower Upper
45 100
58 2.5 1.4 2.2#

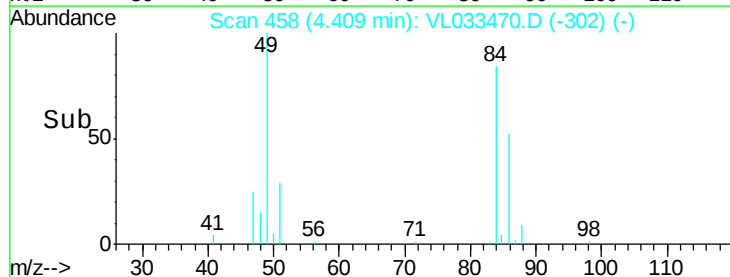
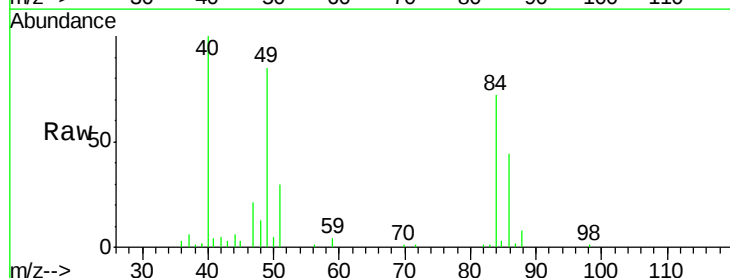
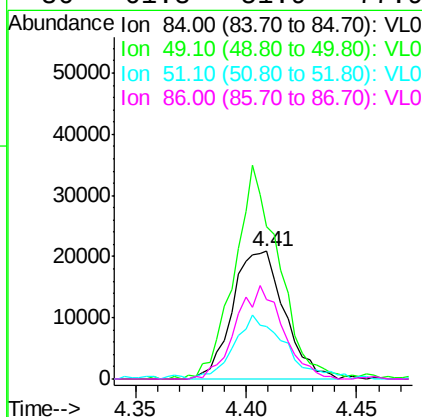
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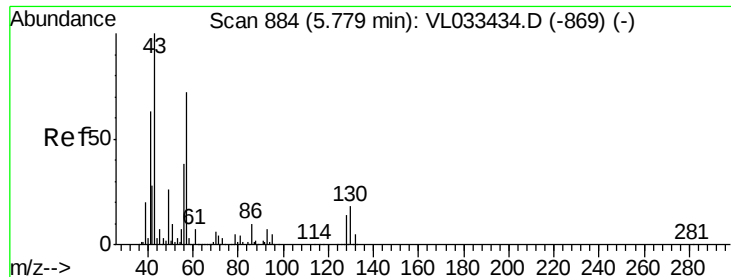
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#20
Methylene Chloride
Concen: 0.961 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 84 Resp: 34188
Ion Ratio Lower Upper
84 100
49 115.8 120.0 180.0#
51 41.5 36.7 55.1
86 61.8 51.9 77.9





#26

Hexane

Concen: 0.989 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033470.D

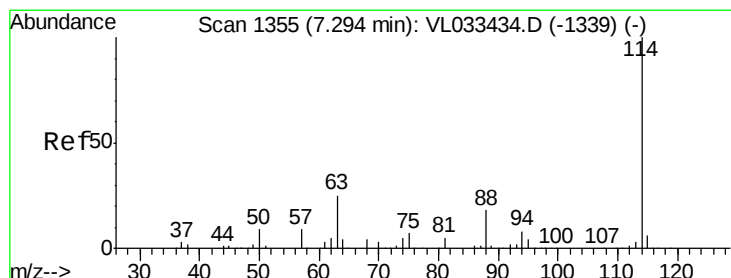
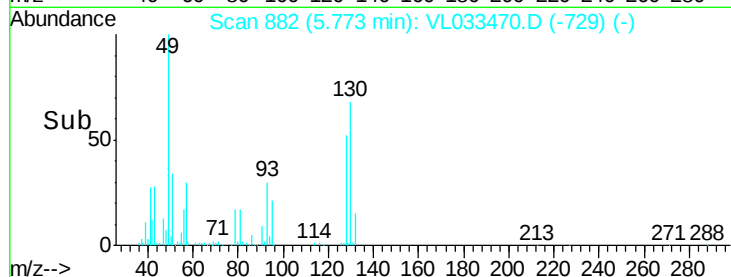
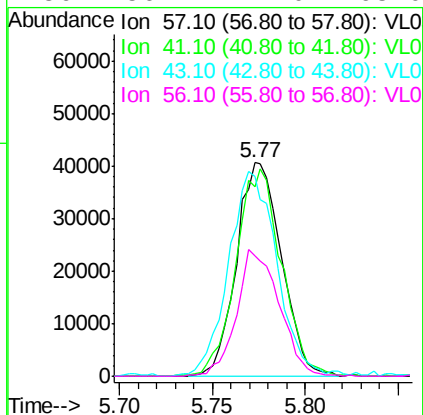
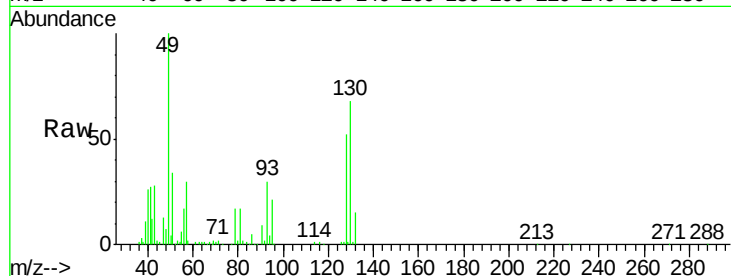
Acq: 27 Mar 2019 16:05

Instrument :
MSVOA_L
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Tot Ion	57	Resp	68349
Ion	Ratio	Lower	Upper
57	100		
41	98.5	70.7	106.1
43	104.4	182.6	274.0#
56	56.2	42.0	63.0

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

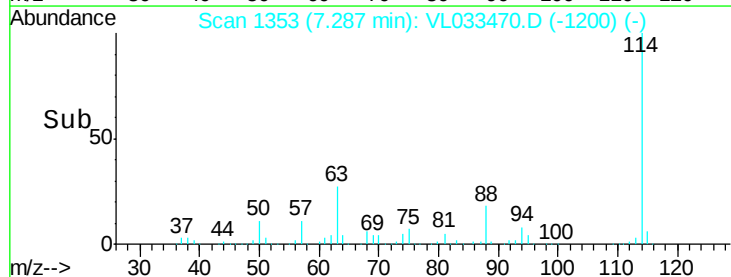
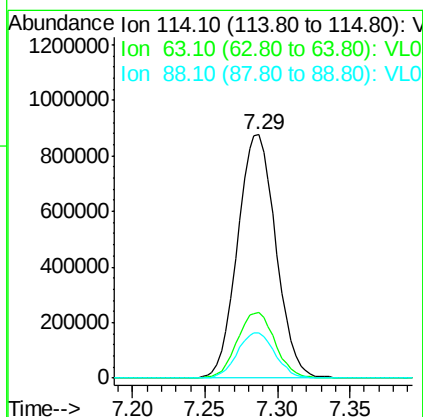
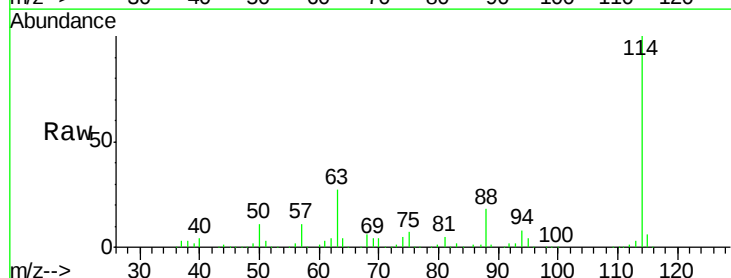
RT: 7.29 min Scan# 1353

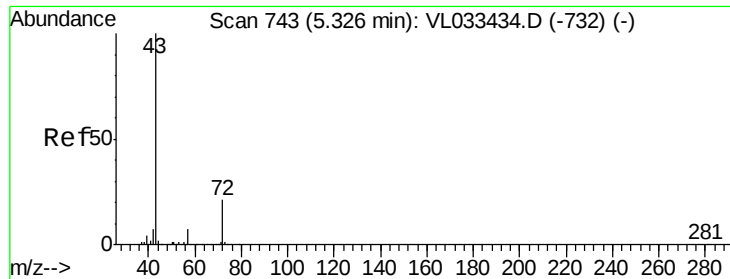
Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Tgt Ion	114	Resp	1607725
Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.5	32.3
88	18.3	14.5	21.7





#34

2-Butanone

Concen: 0.250 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 43 Resp: 24166

Ion Ratio Lower Upper

43 100

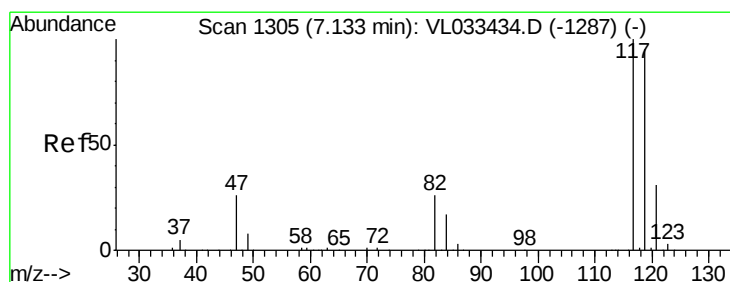
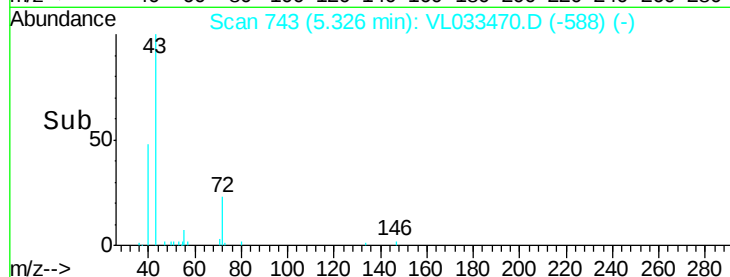
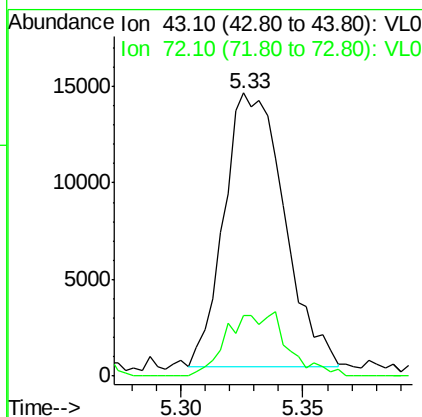
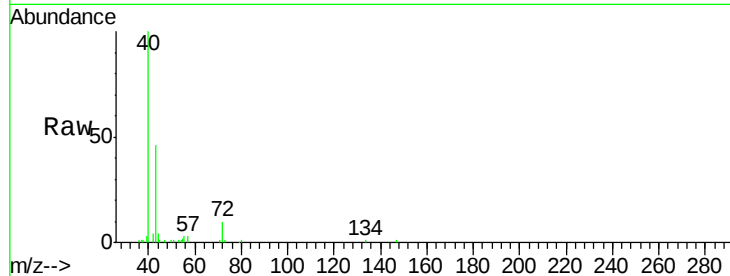
72 23.3 17.4 26.2

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#35

Carbon Tetrachloride

Concen: 0.081 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

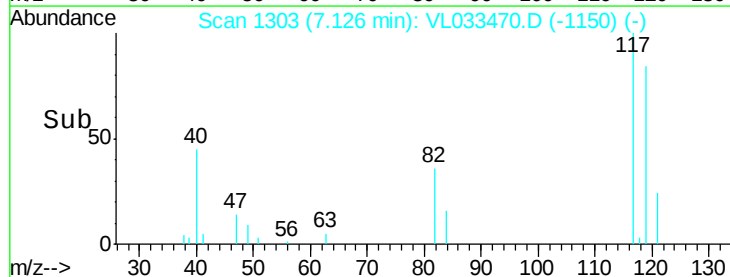
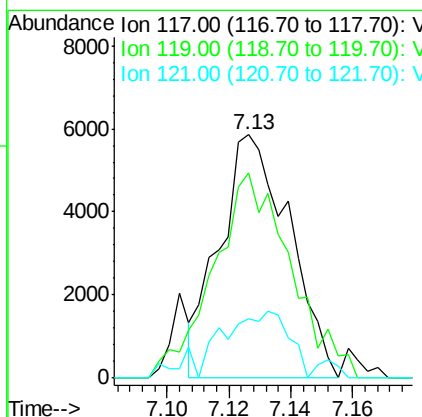
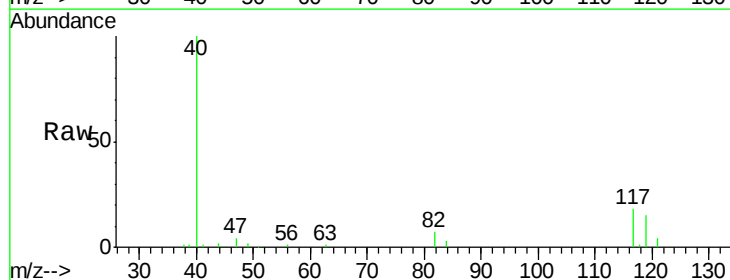
Tgt Ion: 117 Resp: 9175

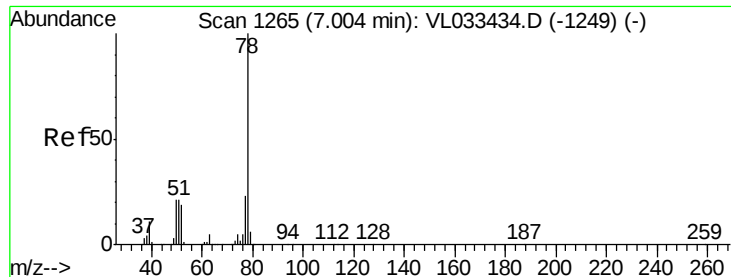
Ion Ratio Lower Upper

117 100

119 75.1 75.8 113.8#

121 19.2 24.7 37.1#





#36

Benzene

Concen: 0.261 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

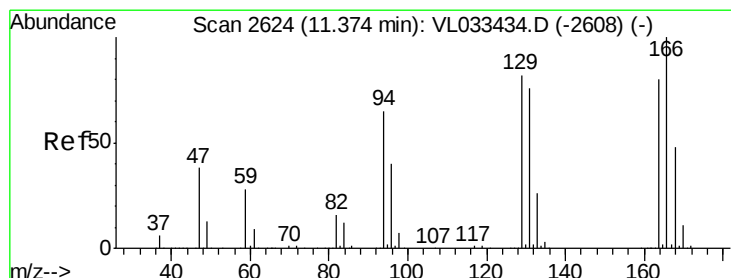
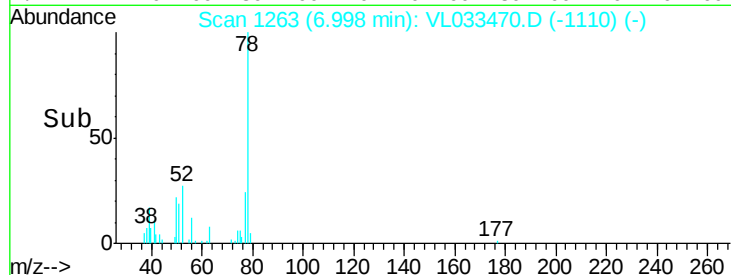
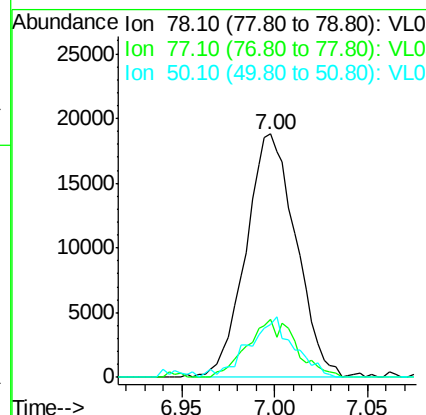
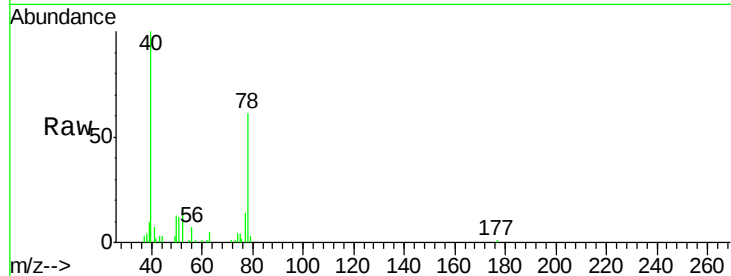
ClientSampleId :

IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion:	78	Resp:	35213
Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.1	27.1
50	22.0	16.7	25.1

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#52

Tetrachloroethene

Concen: 1.883 ppbv

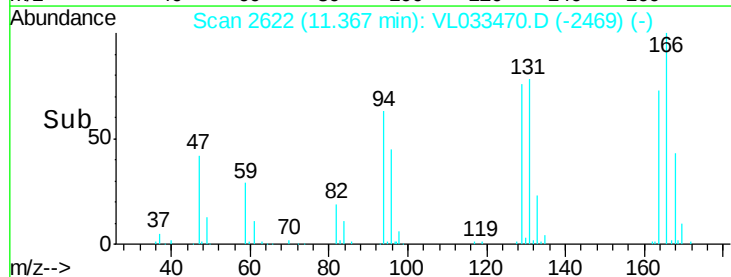
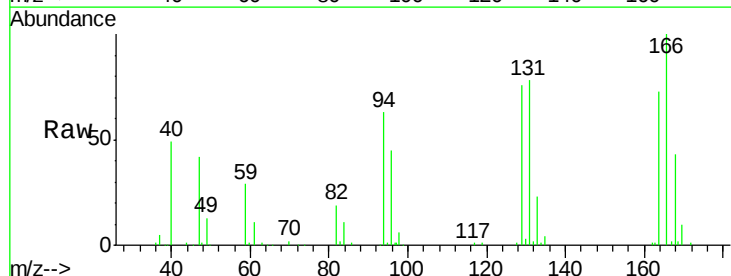
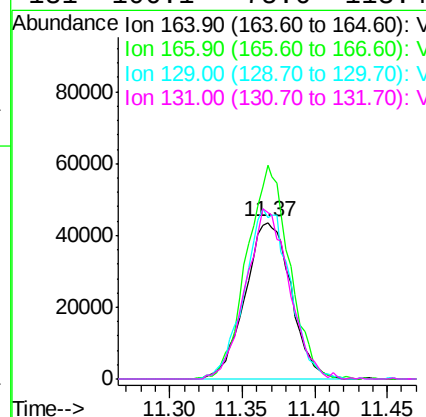
RT: 11.37 min Scan# 2622

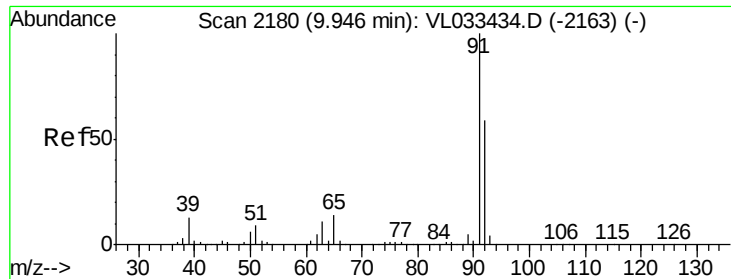
Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Tgt Ion:	164	Resp:	95835
Ion	Ratio	Lower	Upper
164	100		
166	136.4	99.5	149.3
129	103.2	81.4	122.2
131	106.1	75.6	113.4





#53

Toluene

Concen: 5.883 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion: 91 Resp: 922144

Ion Ratio Lower Upper

91 100

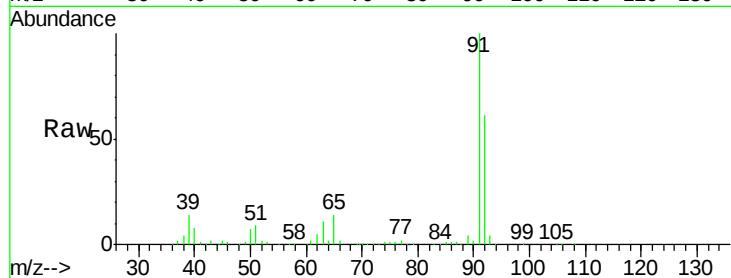
92 59.3 47.4 71.0

Manual Integrations

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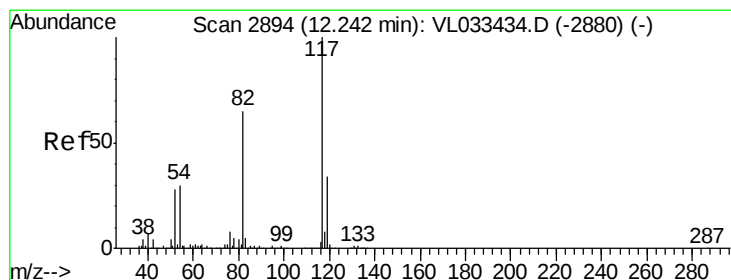
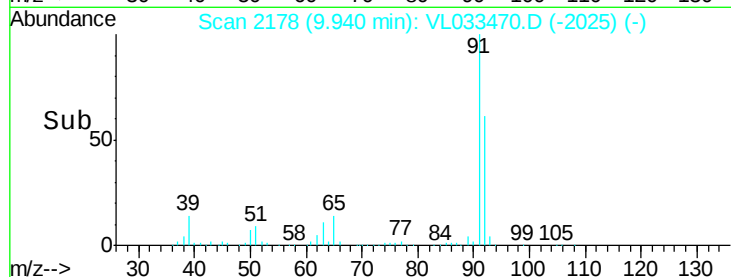
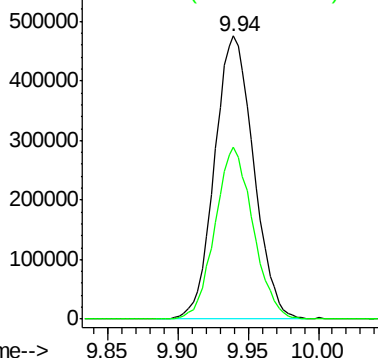
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033470.D

Acq: 27 Mar 2019 16:05

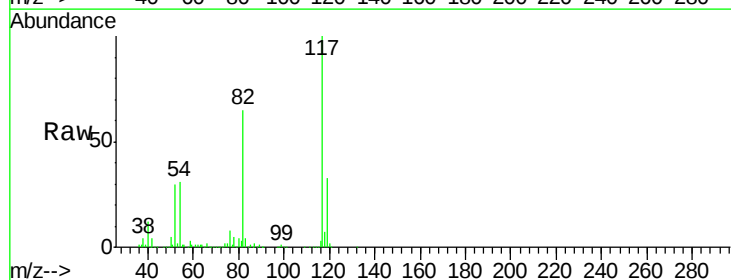
Tgt Ion: 117 Resp: 1579728

Ion Ratio Lower Upper

117 100

82 67.9 51.5 77.3

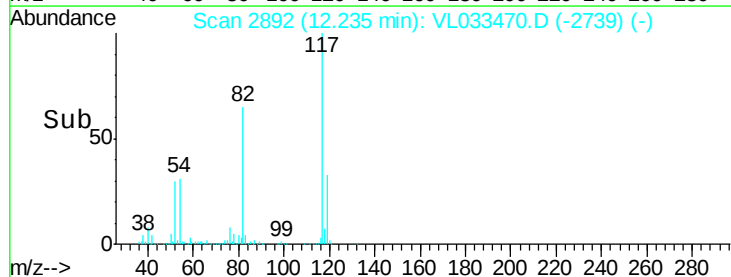
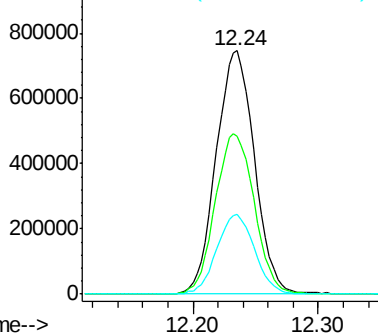
119 32.6 25.5 38.3

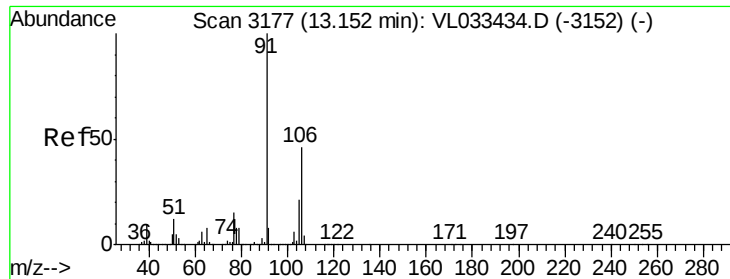


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





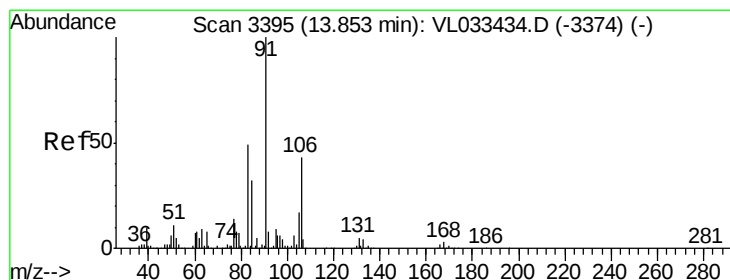
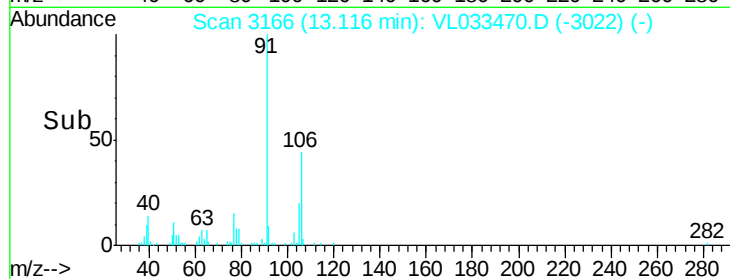
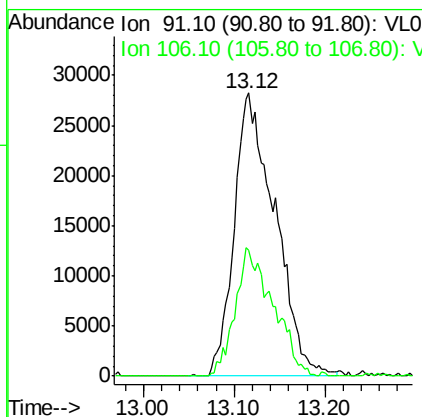
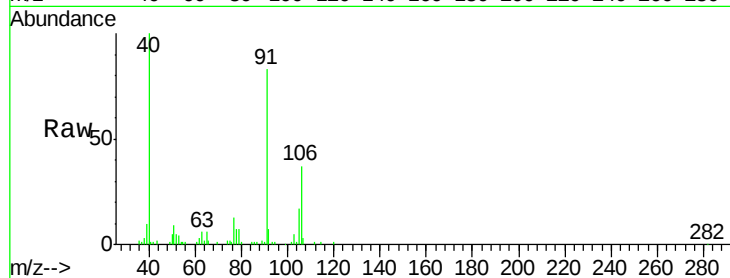
#59
m/p-Xylene
Concen: 0.468 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion: 91 Resp: 88161
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

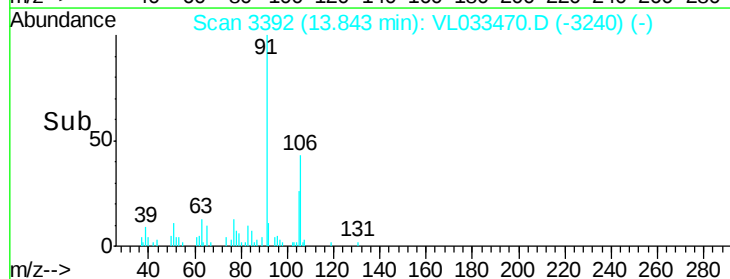
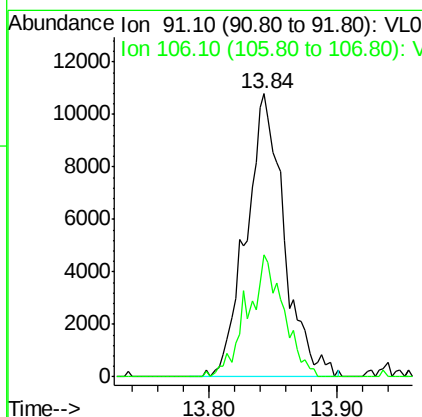
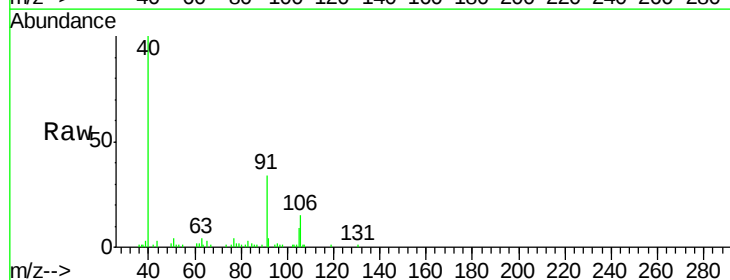
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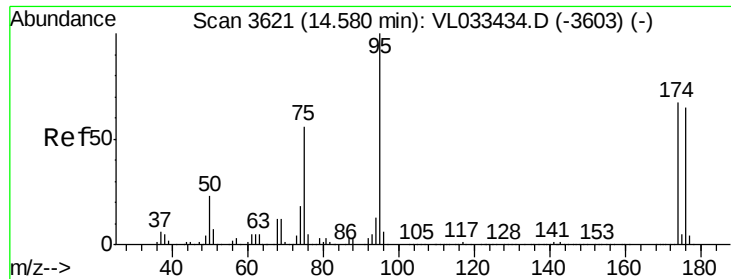
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#60
o-Xylene
Concen: 0.122 ppbv m
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033470.D
Acq: 27 Mar 2019 16:05

Tgt Ion: 91 Resp: 22269
Ion Ratio Lower Upper
91 100
106 0.0 21.4 64.3#





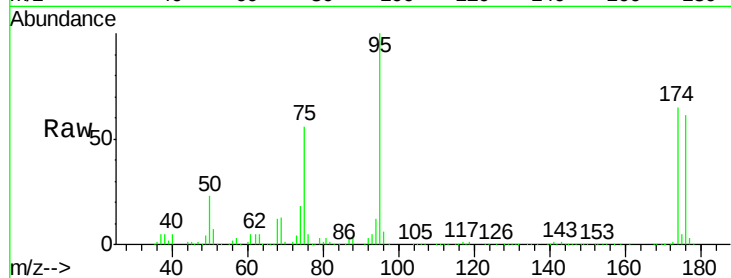
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.232 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033470.D
 Acq: 27 Mar 2019 16:05

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NEXT-TO-GUIDANCE-RM

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.2	52.9	79.3
175	4.7	3.8	5.6

Manual Integrations
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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

