

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL112918\
 Data File : VL032840.D
 Acq On : 29 Nov 2018 18:41
 Operator : SY/AP
 Sample : J6088-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2

Manual Integrations
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 12/4/2018 8:38:49 AM

Quant Time: Nov 30 07:27:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 14 07:27:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1336266	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3403364	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3206444	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2483220	10.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	39170	0.204	ppbv	90
3) Chlorodifluoromethane	3.02	51	425909m	4.020	ppbv	
4) Chloromethane	3.17	50	26898	0.458	ppbv	91
9) Propene	3.05	41	58829m	1.388	ppbv	
10) Heptane	8.26	43	78825	0.487	ppbv	98
11) Trichlorofluoromethane	4.01	101	183789	1.015	ppbv	96
13) Ethanol	3.65	45	442103	31.838	ppbv	100
15) Acetone	3.90	43	2909214	23.840	ppbv	97
19) Isopropyl Alcohol	4.04	45	411064	5.057	ppbv #	95
20) Methylene Chloride	4.42	84	228725	3.621	ppbv	96
26) Hexane	5.79	57	338928	2.677	ppbv #	46
30) Cyclohexane	7.25	84	19334m	0.175	ppbv	
34) 2-Butanone	5.33	43	830601	4.705	ppbv	99
35) Carbon Tetrachloride	7.15	117	18723m	0.068	ppbv	
36) Benzene	7.01	78	111830	0.413	ppbv	100
38) Trichloroethene	7.97	130	72807	0.664	ppbv	97
41) Tetrahydrofuran	6.17	42	36222	0.358	ppbv	94
44) 2,2,4-Trimethylpentane	8.00	57	171017	0.378	ppbv #	85
52) Tetrachloroethene	11.39	164	62008	0.658	ppbv	95
53) Toluene	9.95	91	3216429	11.376	ppbv	99
58) Ethyl Benzene	12.88	91	245995	0.637	ppbv	96
59) m/p-Xylene	13.13	91	730203m	2.126	ppbv	
60) o-Xylene	13.86	91	193652	0.561	ppbv	98
72) 4-Ethyltoluene	16.01	105	45603m	0.120	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	36798	0.099	ppbv #	86
74) 1,2,4-Trimethylbenzene	16.93	105	188542m	0.476	ppbv	
79) Naphthalene	22.42	128	38522m	0.148	ppbv	

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

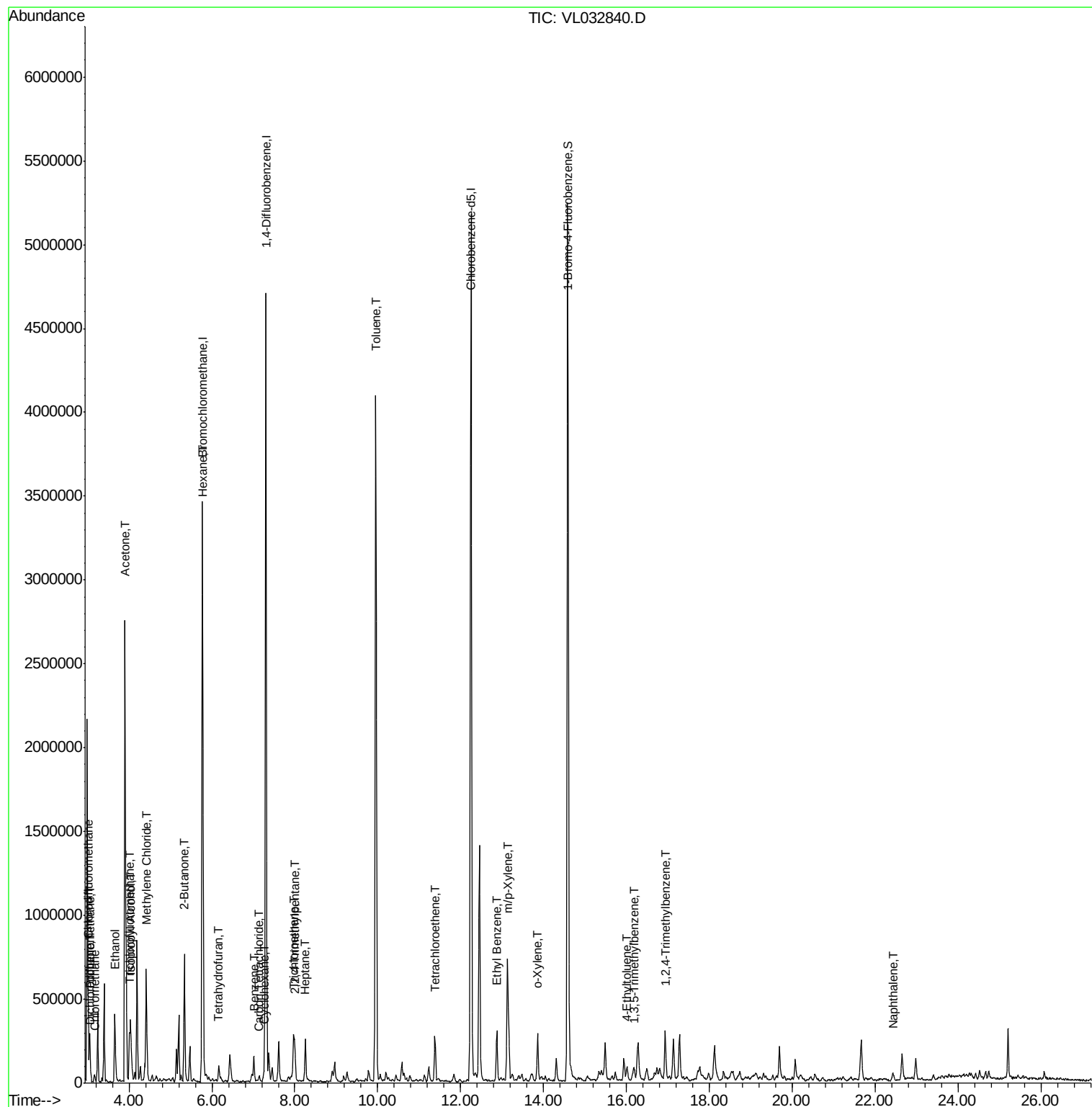
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL112918\
Data File : VL032840.D
Acq On : 29 Nov 2018 18:41
Operator : SY/AP
Sample : J6088-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

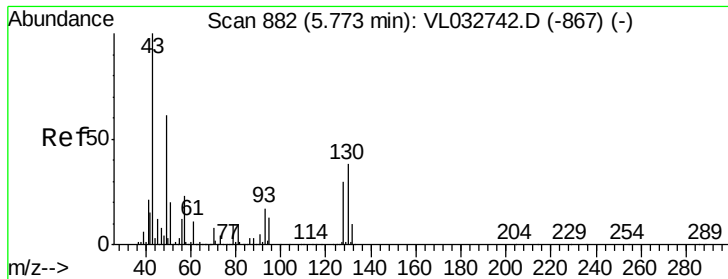
Instrument :
MSVOA_L
ClientSampleId :
IAS-2

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Quant Time: Nov 30 07:27:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL032840.D

Acq: 29 Nov 2018 18:41

Instrument :

MSVOA_L

ClientSampled :

IAS-2

Tgt Ion: 49 Resp: 1336266

Ion Ratio Lower Upper

49 100

128 51.2 24.9 74.6

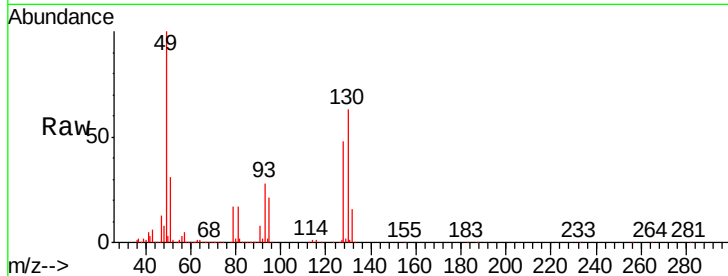
130 66.4 31.4 94.2

Manual Integrations

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.77

800000

600000

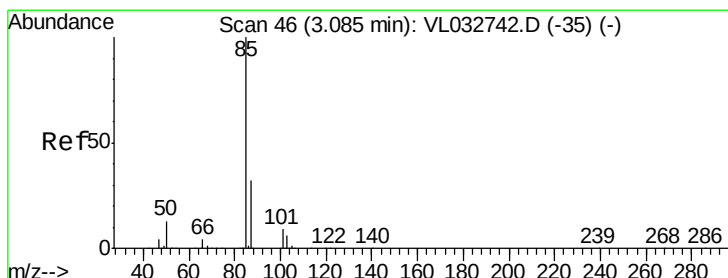
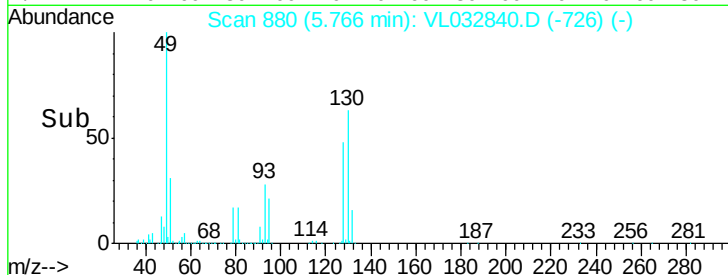
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 0.204 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032840.D

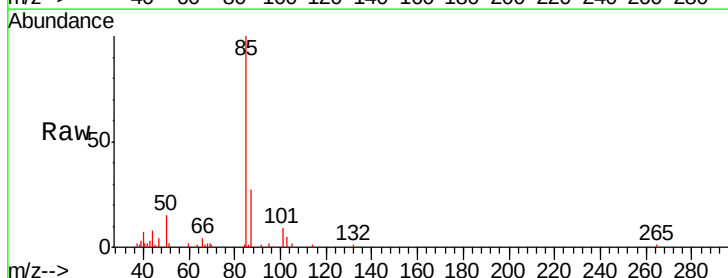
Acq: 29 Nov 2018 18:41

Tgt Ion: 85 Resp: 39170

Ion Ratio Lower Upper

85 100

87 26.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

40000

30000

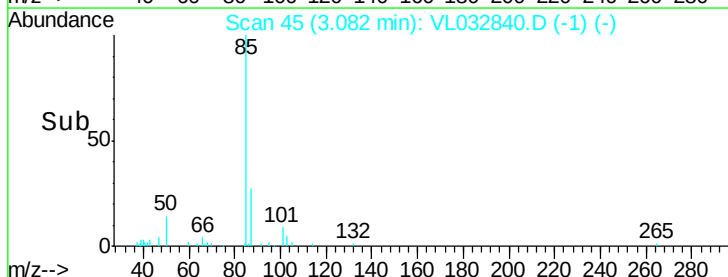
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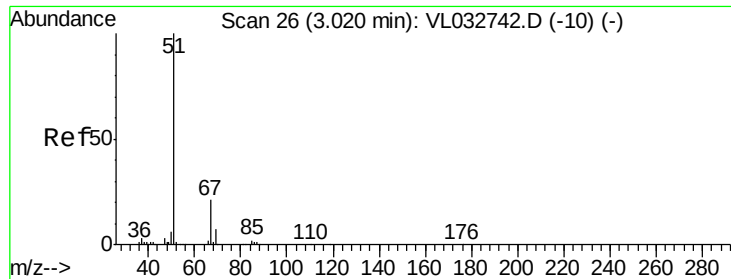
10000

0

3.05 3.10

Time-->





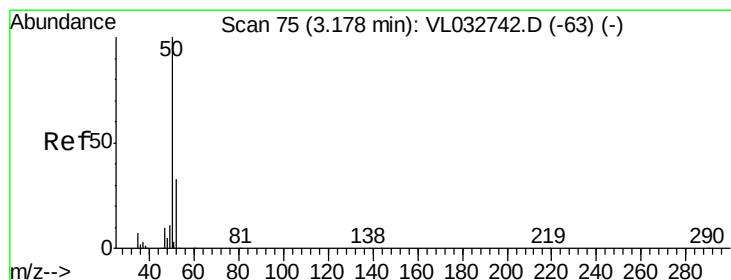
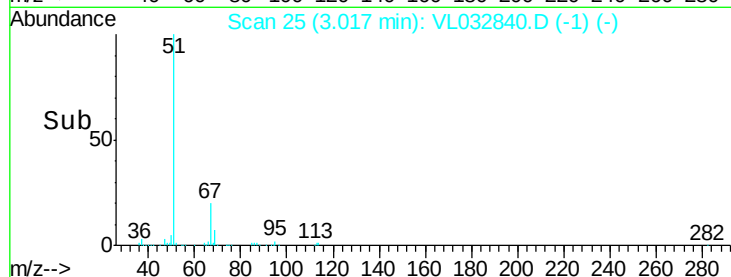
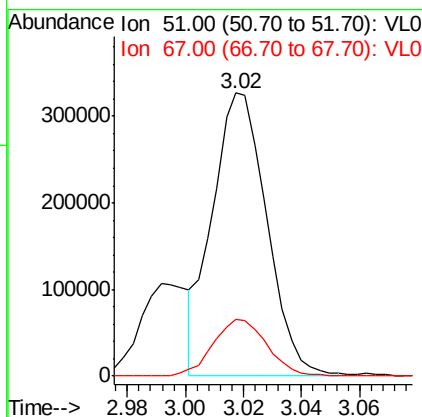
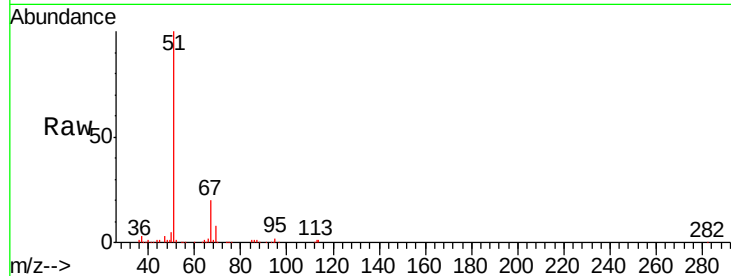
#3
Chlorodifluoromethane
Concen: 4.020 ppbv
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Instrument :
MSVOA_L
ClientSampleId :
IAS-2

Tgt Ion: 51 Resp: 425909
Ion Ratio Lower Upper
51 100
67 20.0 16.1 24.1

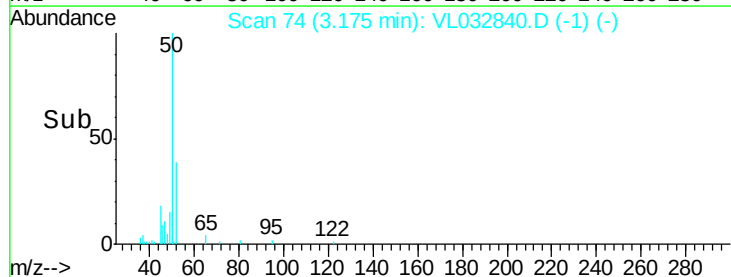
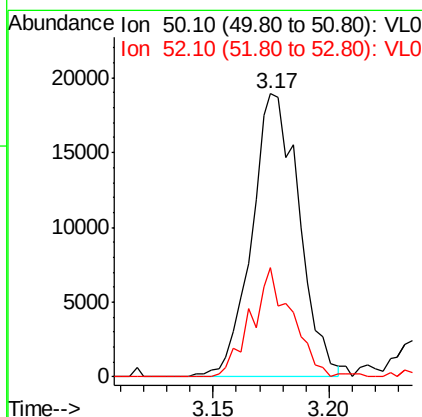
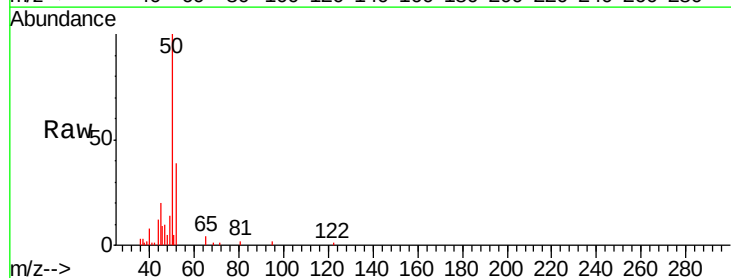
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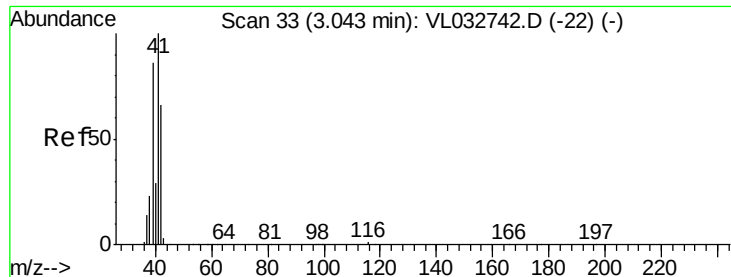
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#4
Chloromethane
Concen: 0.458 ppbv
RT: 3.17 min Scan# 74
Delta R.T. -0.00 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Tgt Ion: 50 Resp: 26898
Ion Ratio Lower Upper
50 100
52 38.7 26.6 40.0





#9

Propene

Concen: 1.388 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032840.D

Acq: 29 Nov 2018 18:41

Instrument :

MSVOA_L

ClientSampleId :

IAS-2

Tgt Ion: 41 Resp: 58829

Ion Ratio Lower Upper

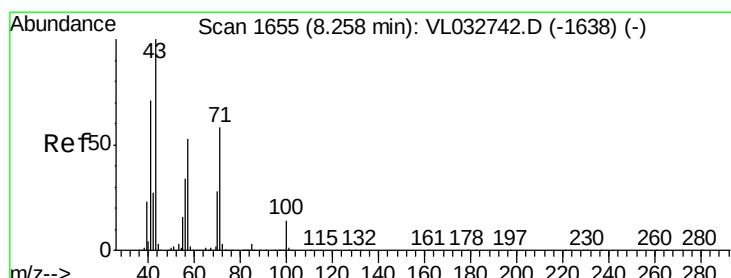
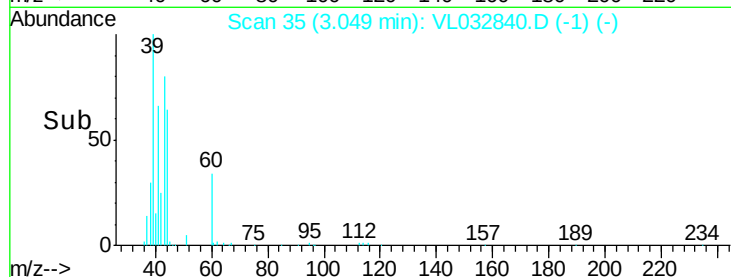
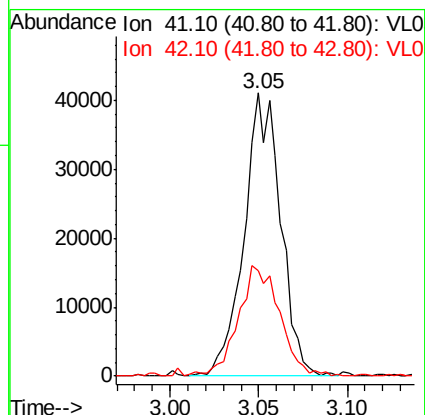
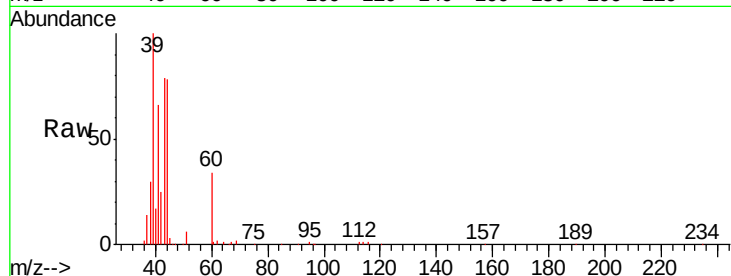
41 100

42 44.7 55.0 82.6#

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#10

Heptane

Concen: 0.487 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032840.D

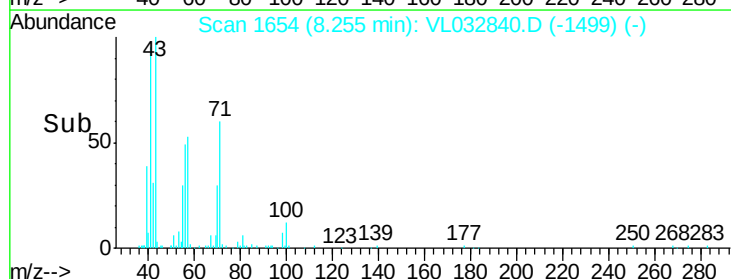
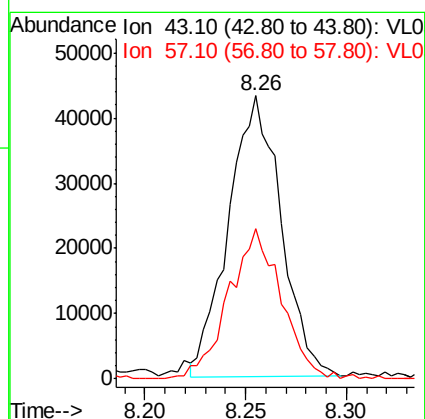
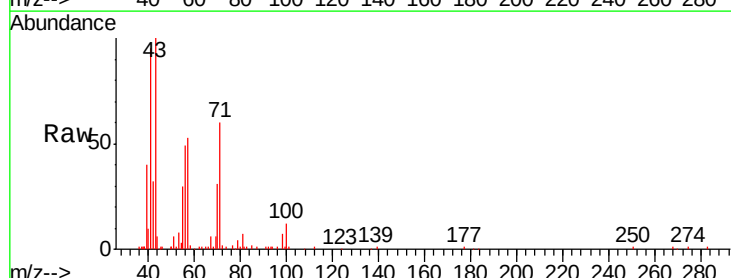
Acq: 29 Nov 2018 18:41

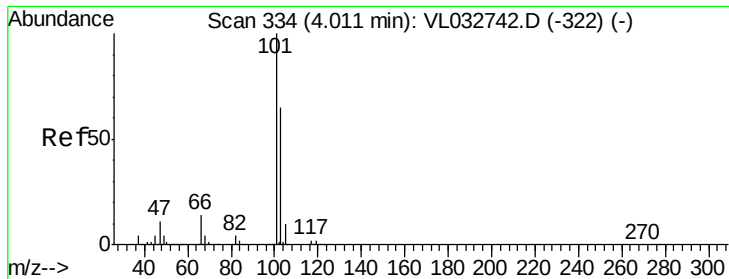
Tgt Ion: 43 Resp: 78825

Ion Ratio Lower Upper

43 100

57 53.5 41.8 62.8





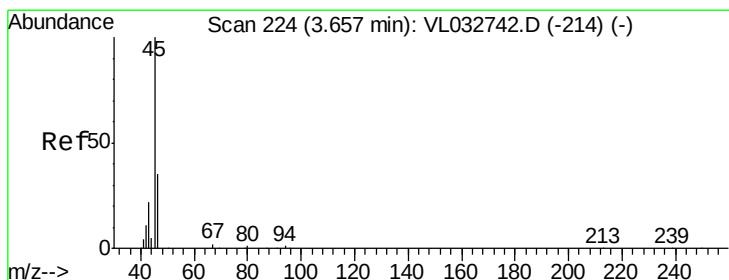
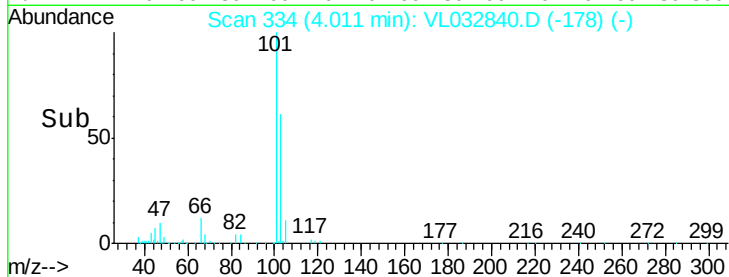
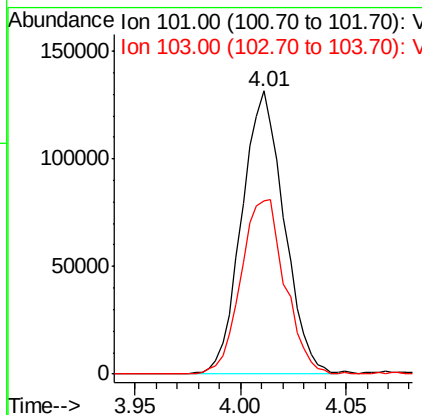
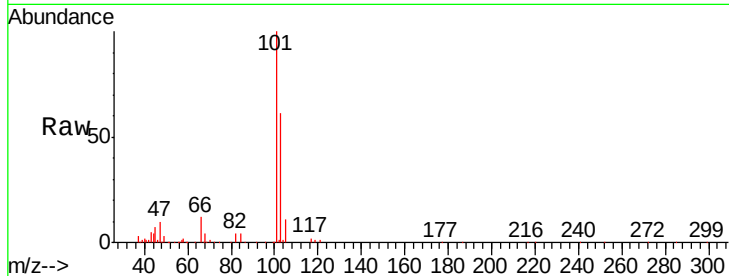
#11
 Trichlorofluoromethane
 Concen: 1.015 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL032840.D
 Acq: 29 Nov 2018 18:41

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-2

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	183789		
103	61.1	51.6	77.4	

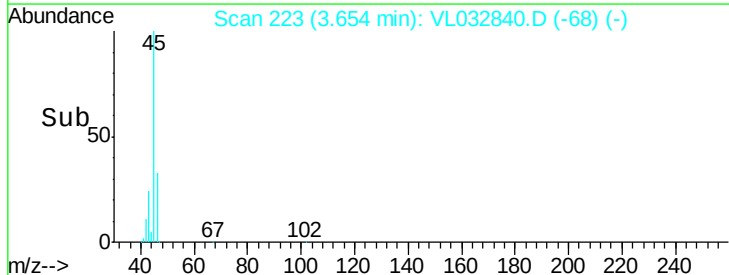
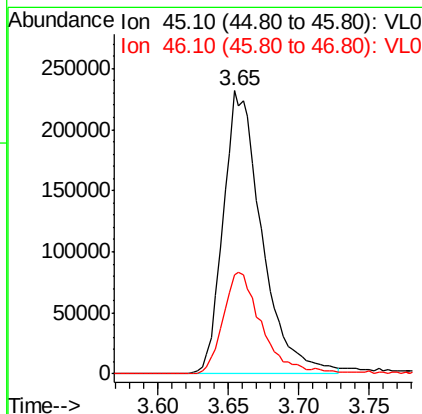
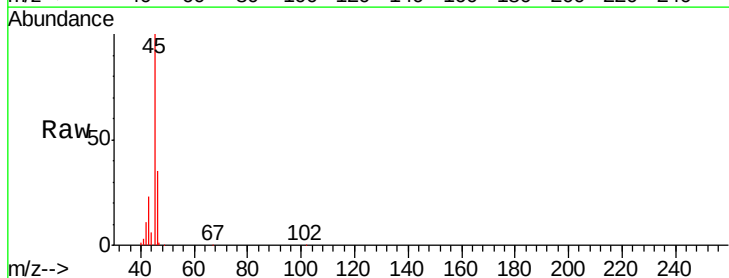
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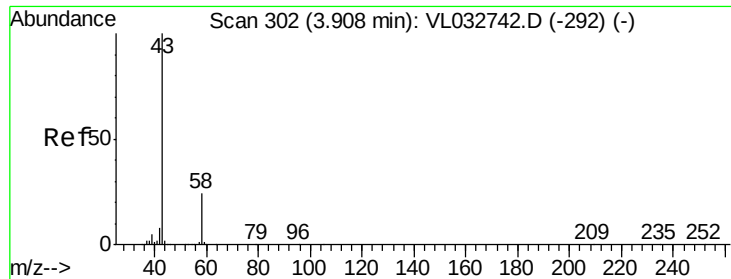
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#13
 Ethanol
 Concen: 31.838 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. -0.00 min
 Lab File: VL032840.D
 Acq: 29 Nov 2018 18:41

Tgt Ion	Ratio	Resp	Lower	Upper
45	100	442103		
46	35.9	14.5	57.9	





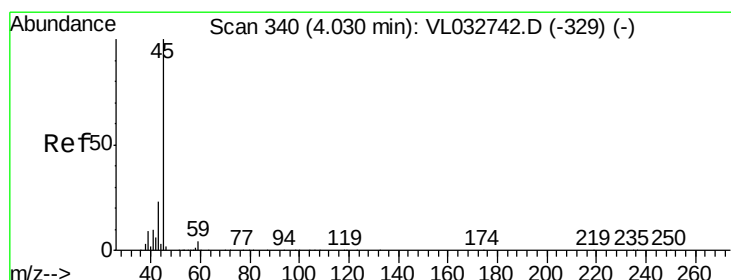
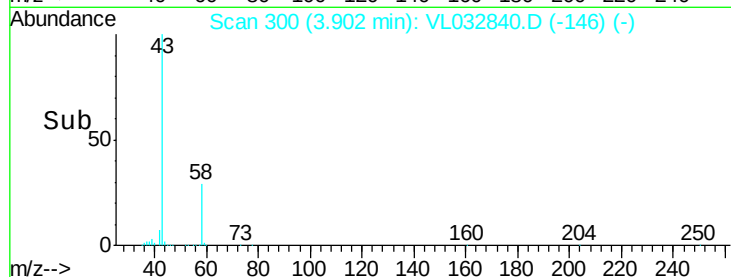
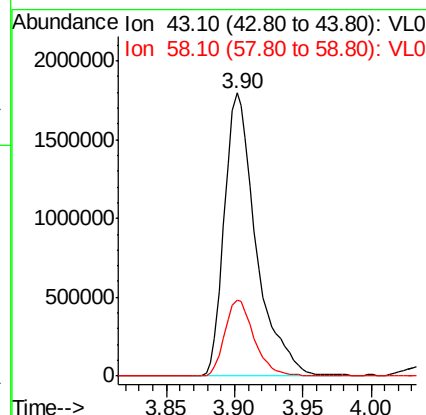
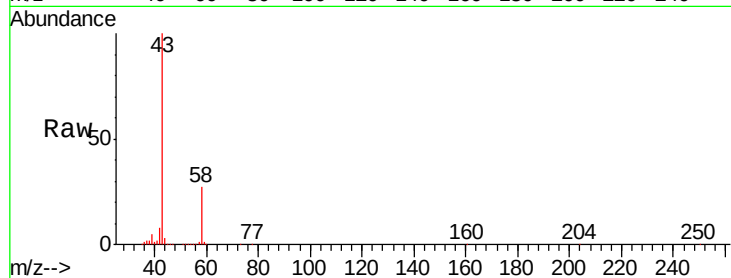
#15
Acetone
Concen: 23.840 ppbv
RT: 3.90 min Scan# 300
Delta R.T. -0.01 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Instrument :
MSVOA_L
ClientSampleId :
IAS-2

Tgt Ion: 43 Resp: 2909214
Ion Ratio Lower Upper
43 100
58 25.0 21.1 31.7

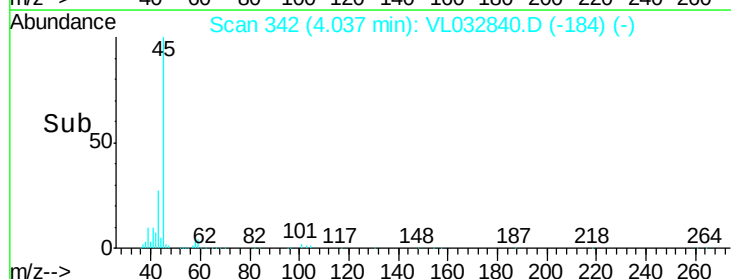
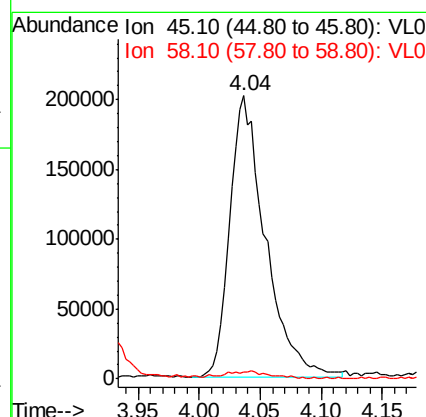
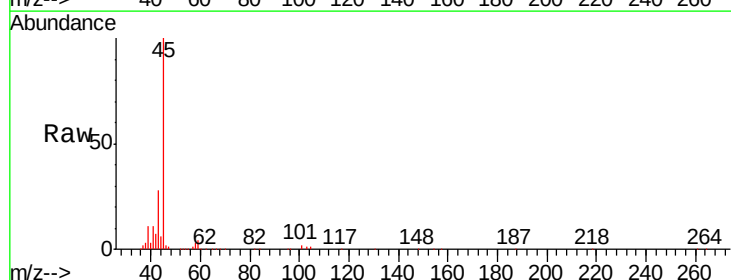
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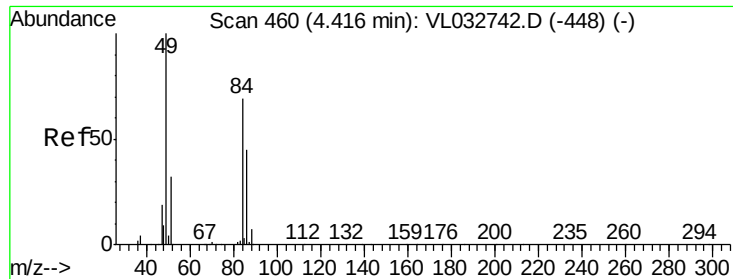
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#19
Isopropyl Alcohol
Concen: 5.057 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.01 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Tgt Ion: 45 Resp: 411064
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.0#





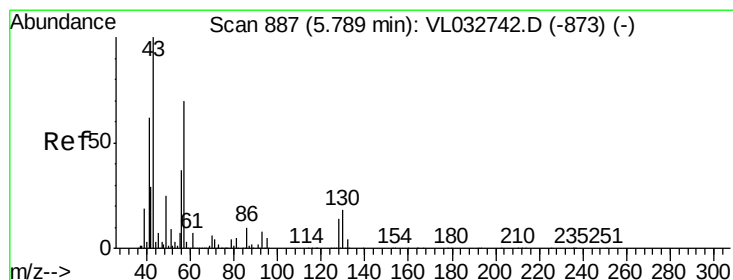
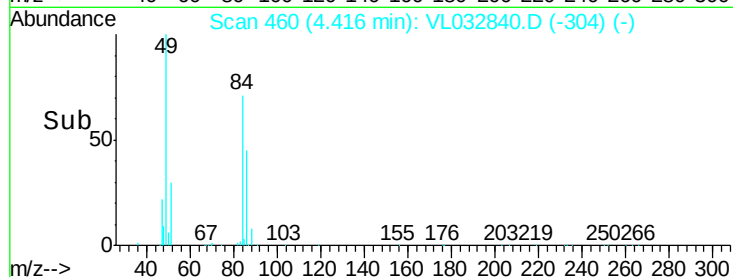
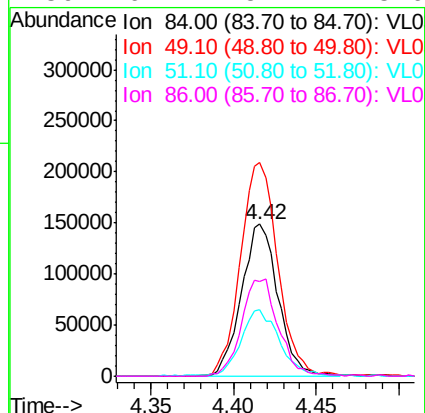
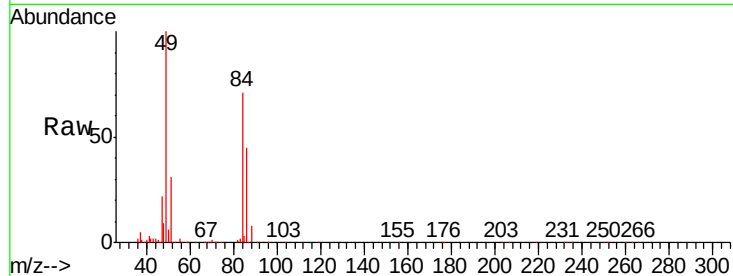
#20
Methylene Chloride
Concen: 3.621 ppbv
RT: 4.42 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Instrument :
MSVOA_L
ClientSampled :
IAS-2

Tgt Ion	Ratio	Lower	Upper
84	100		
49	140.5	115.8	173.6
51	42.9	36.9	55.3
86	62.7	52.4	78.6

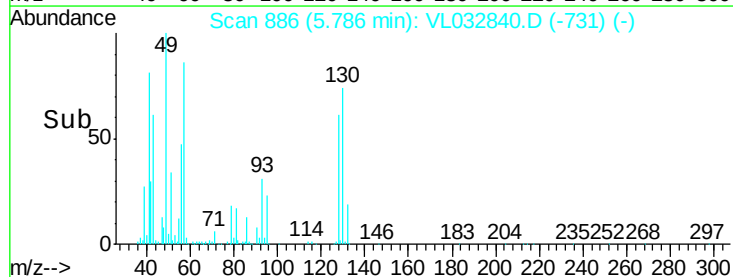
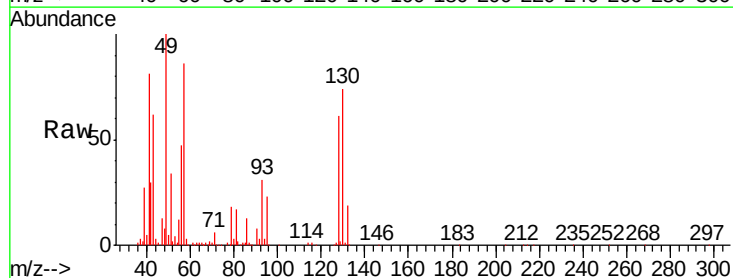
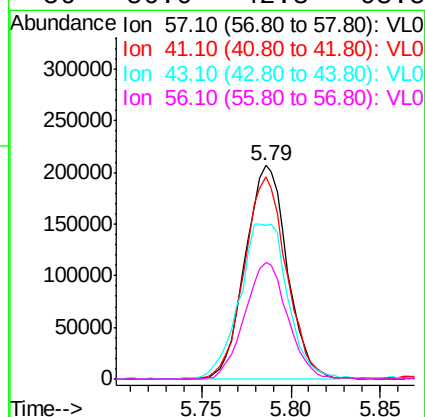
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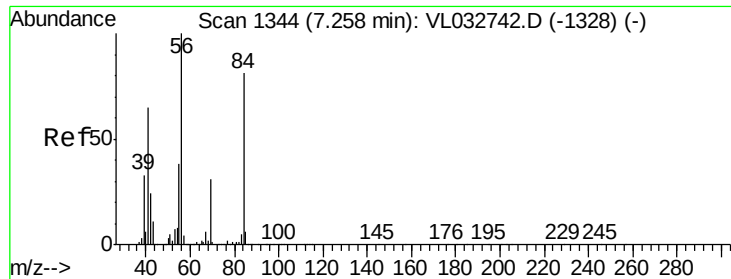
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#26
Hexane
Concen: 2.677 ppbv
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.8	70.3	105.5
43	83.4	174.0	261.0#
56	56.0	42.3	63.5





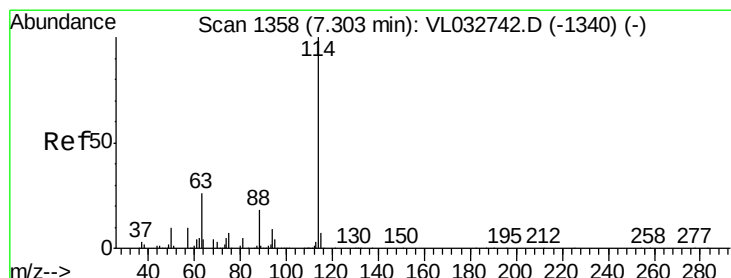
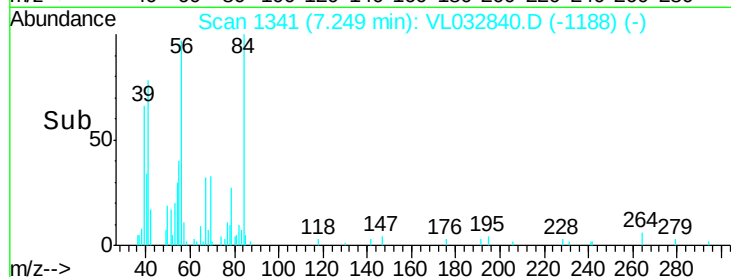
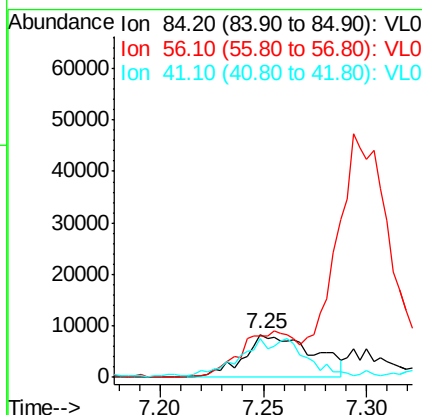
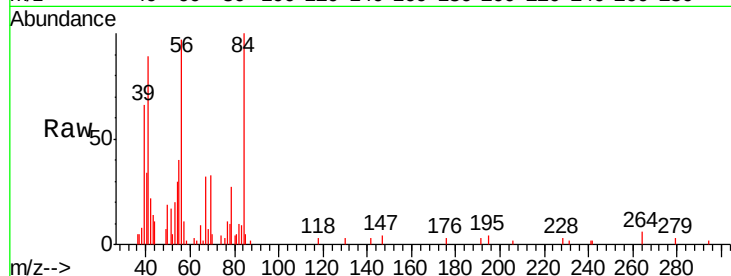
#30
Cyclohexane
Concen: 0.175 ppbv m
RT: 7.25 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Instrument :
MSVOA_L
ClientSampled :
IAS-2

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	105.0	157.4#
41	0.0	65.3	97.9#

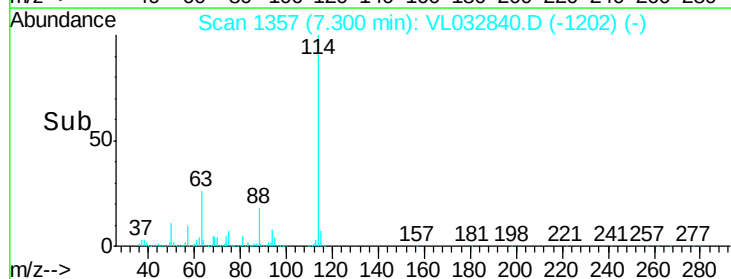
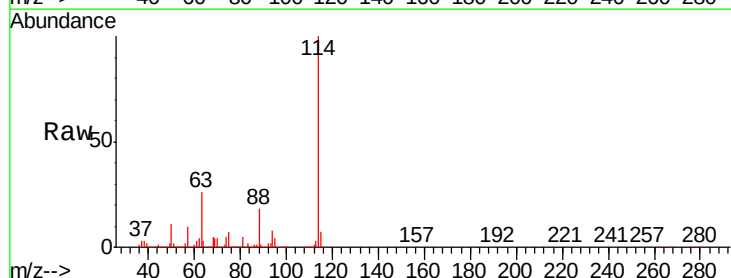
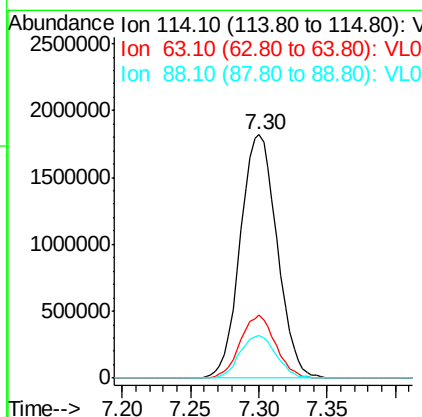
Manual Integrations
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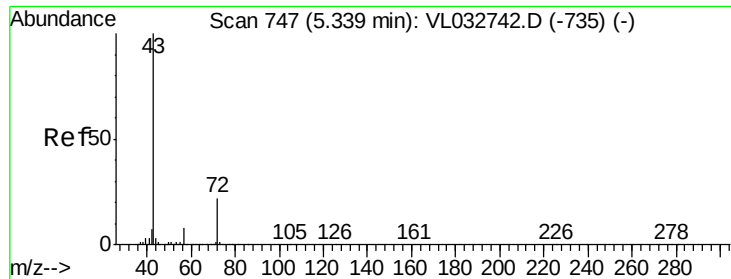
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.9	31.3
88	17.4	14.4	21.6





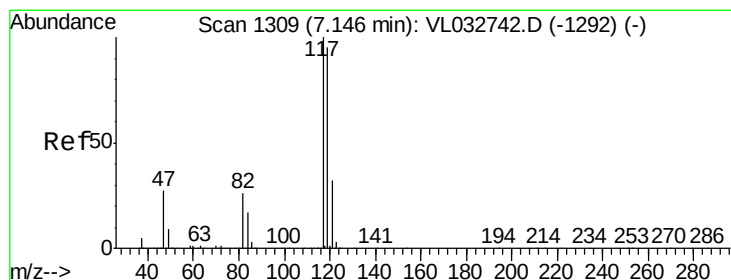
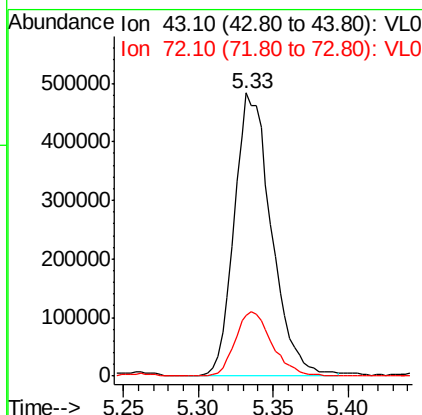
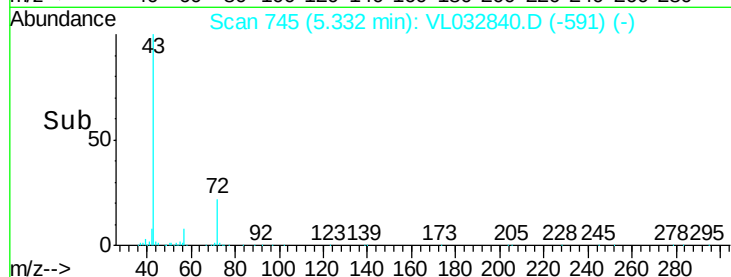
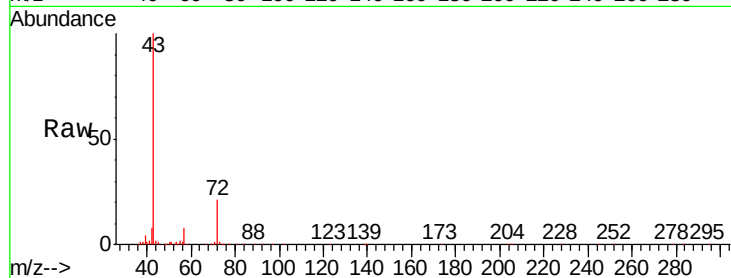
#34
2-Butanone
Concen: 4.705 ppbv
RT: 5.33 min Scan# 745
Delta R.T. -0.01 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Instrument :
MSVOA_L
ClientSampled :
IAS-2

Tgt Ion: 43 Resp: 830601
Ion Ratio Lower Upper
43 100
72 22.5 18.4 27.6

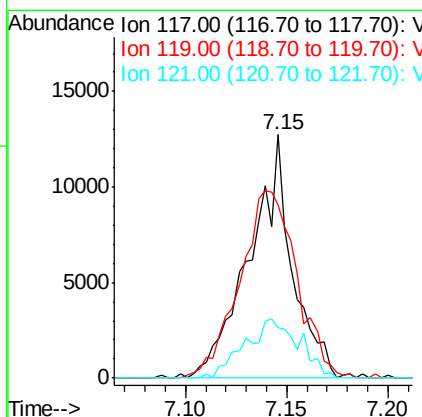
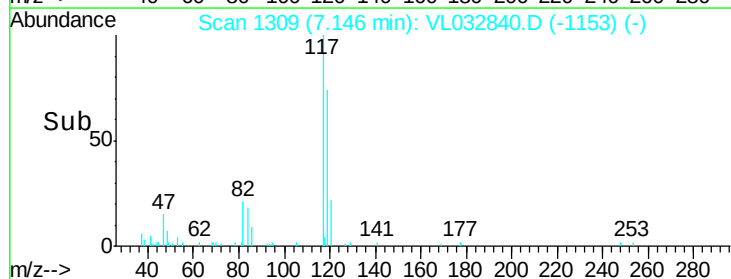
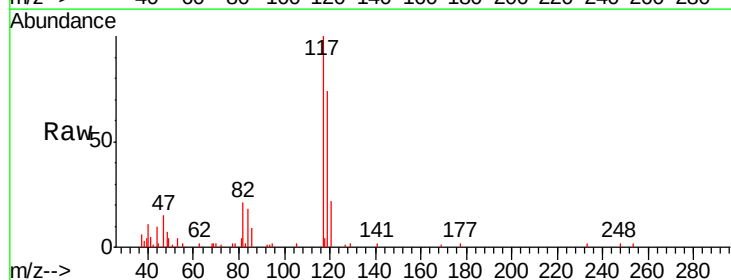
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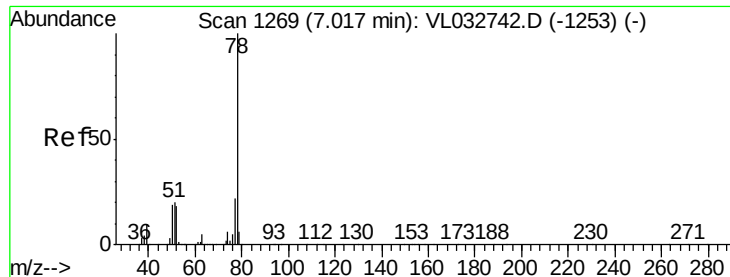
apatel
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#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 7.15 min Scan# 1309
Delta R.T. 0.00 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Tgt Ion: 117 Resp: 18723
Ion Ratio Lower Upper
117 100
119 74.2 76.1 114.1#
121 21.6 25.4 38.0#





#36

Benzene

Concen: 0.413 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032840.D

Acq: 29 Nov 2018 18:41

Instrument :

MSVOA_L

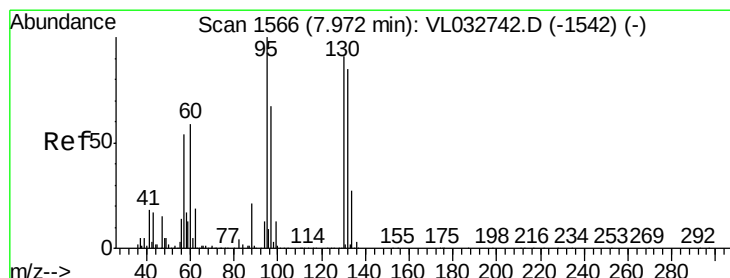
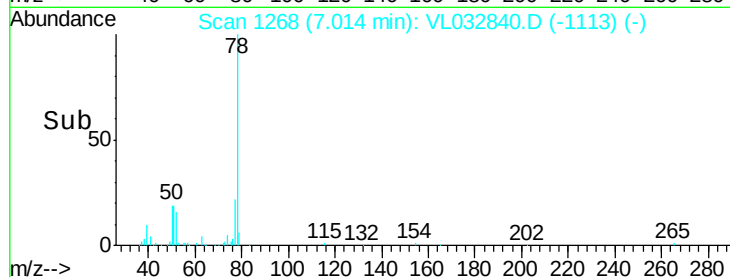
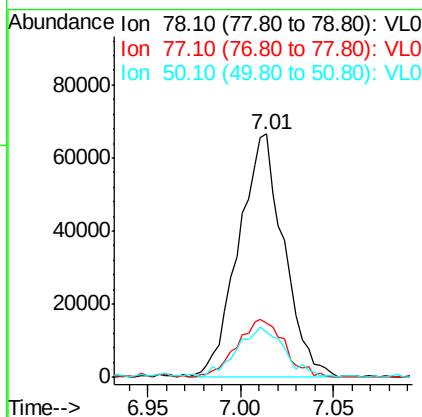
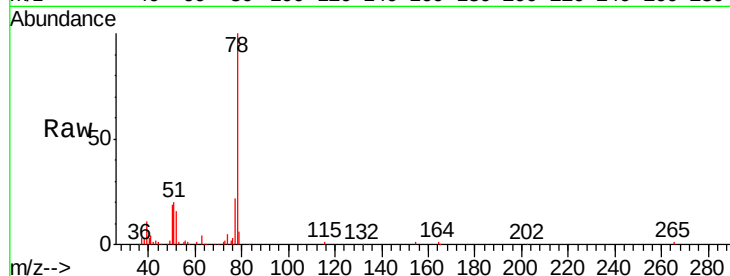
ClientSampleId :

IAS-2

Tgt Ion:	78	Resp:	111830
Ion	Ratio	Lower	Upper
78	100		
77	22.4	17.8	26.8
50	18.9	15.4	23.0

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#38

Trichloroethene

Concen: 0.664 ppbv

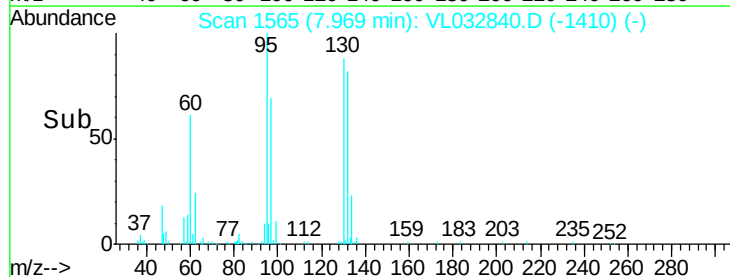
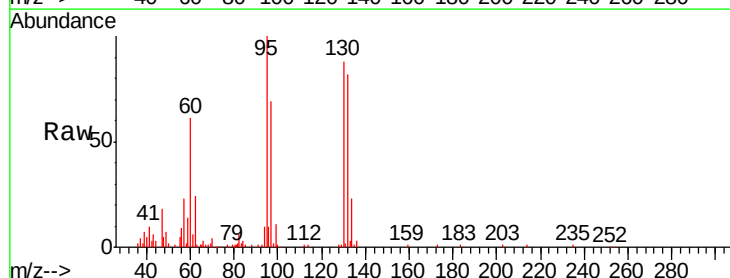
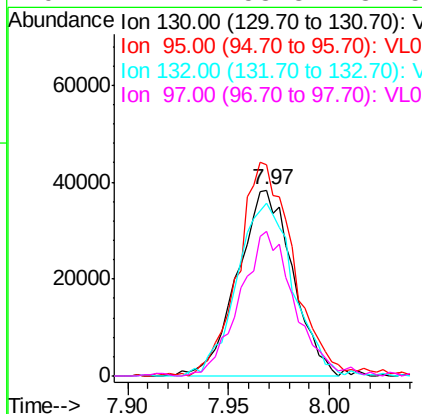
RT: 7.97 min Scan# 1565

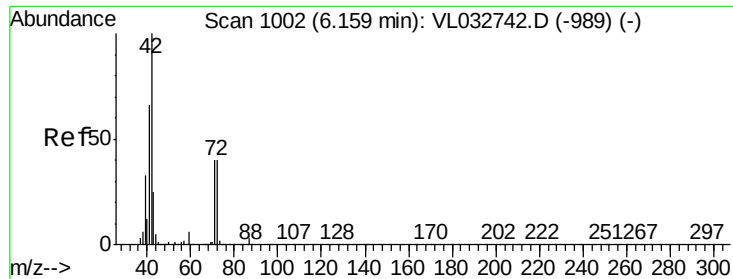
Delta R.T. -0.00 min

Lab File: VL032840.D

Acq: 29 Nov 2018 18:41

Tgt Ion:	130	Resp:	72807
Ion	Ratio	Lower	Upper
130	100		
95	113.6	87.7	131.5
132	91.3	74.6	111.8
97	77.1	58.3	87.5





#41

Tetrahydrofuran

Concen: 0.358 ppbv

RT: 6.17 min Scan# 1005

Delta R.T. 0.01 min

Lab File: VL032840.D

Acq: 29 Nov 2018 18:41

Instrument :

MSVOA_L

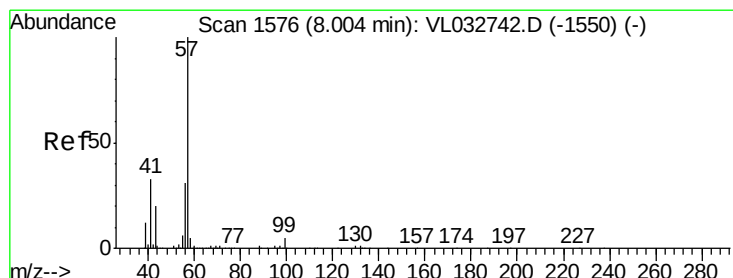
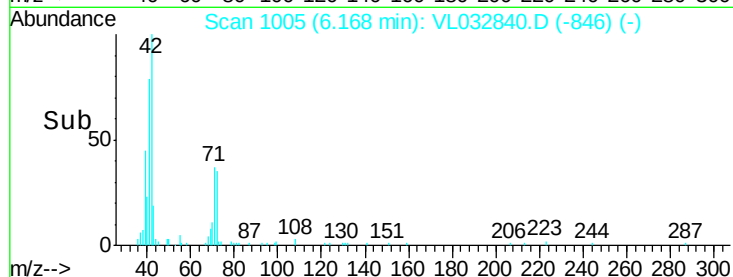
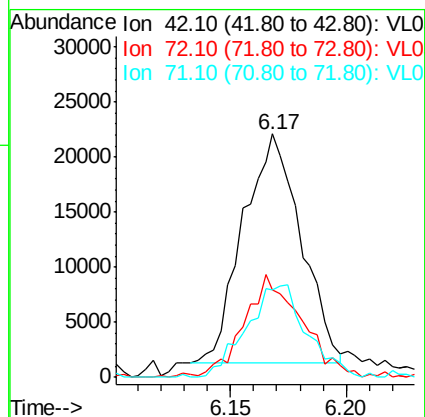
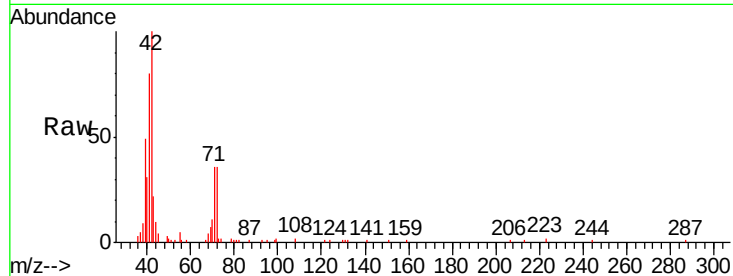
ClientSampled :

IAS-2

Tgt Ion:	42	Resp:	36222
Ion	Ratio	Lower	Upper
42	100		
72	45.8	32.4	48.6
71	42.1	31.6	47.4

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#44

2,2,4-Trimethylpentane

Concen: 0.378 ppbv

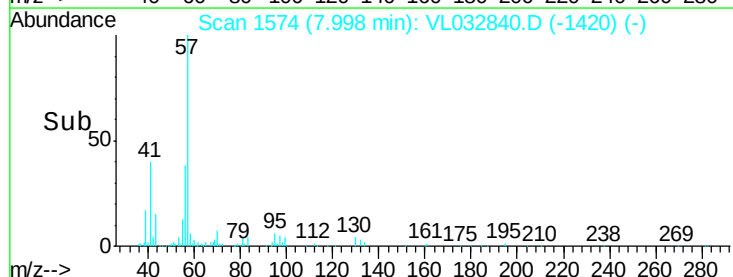
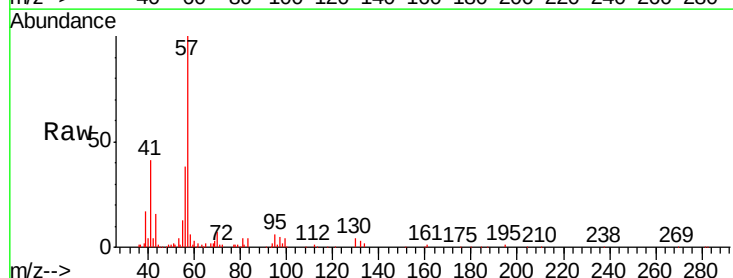
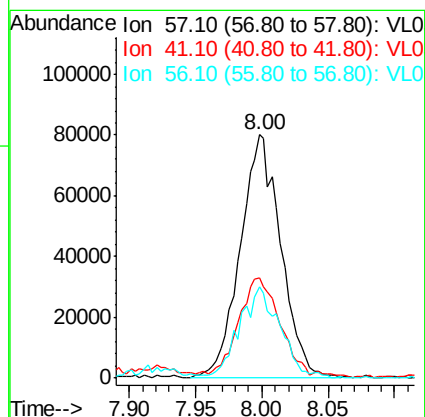
RT: 8.00 min Scan# 1574

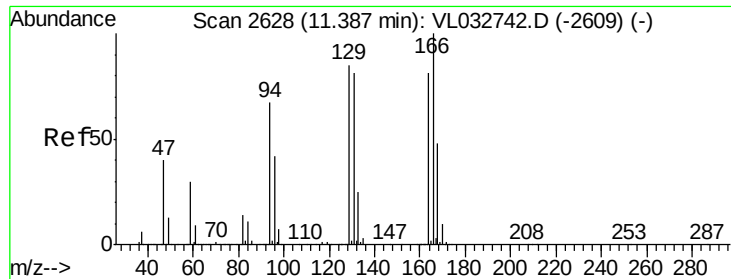
Delta R.T. -0.01 min

Lab File: VL032840.D

Acq: 29 Nov 2018 18:41

Tgt Ion:	57	Resp:	171017
Ion	Ratio	Lower	Upper
57	100		
41	43.3	26.6	39.8#
56	37.5	24.8	37.2#





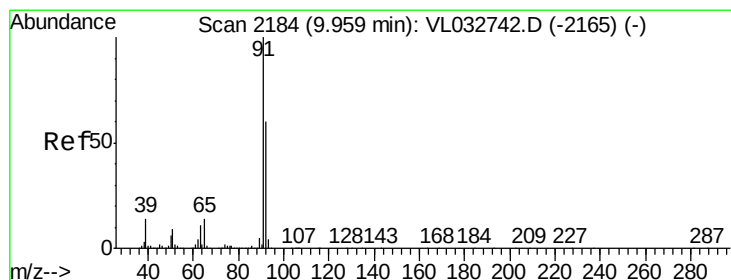
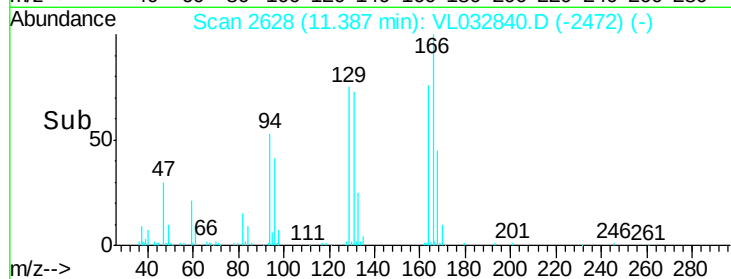
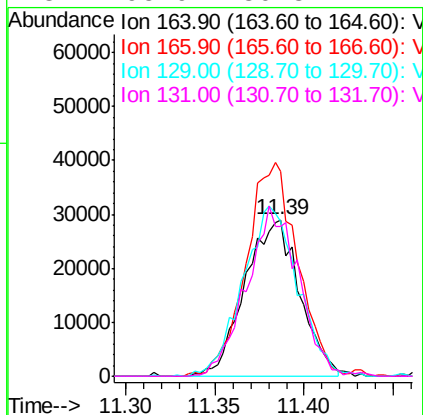
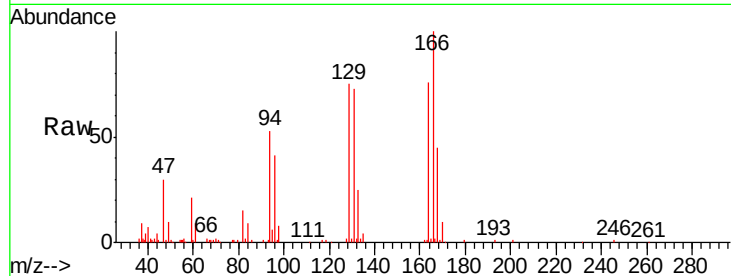
#52
Tetrachloroethene
Concen: 0.658 ppbv
RT: 11.39 min Scan# 2628
Delta R.T. 0.00 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Instrument :
MSVOA_L
ClientSampled :
IAS-2

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.9	99.3	148.9
129	98.8	83.9	125.9
131	95.9	80.8	121.2

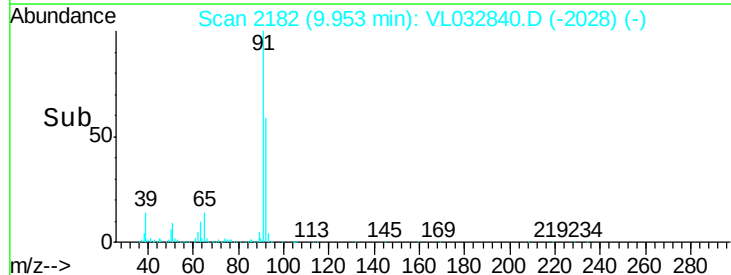
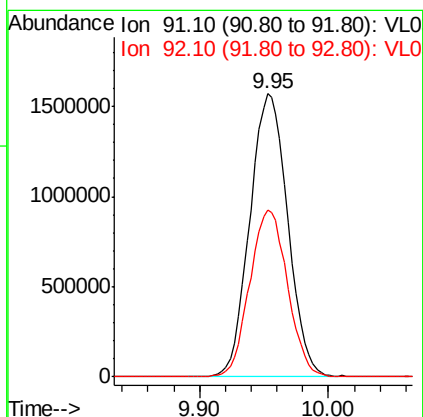
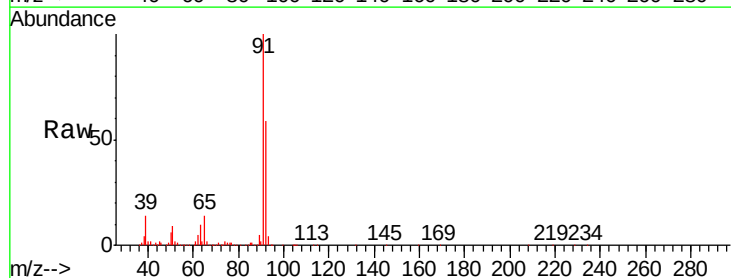
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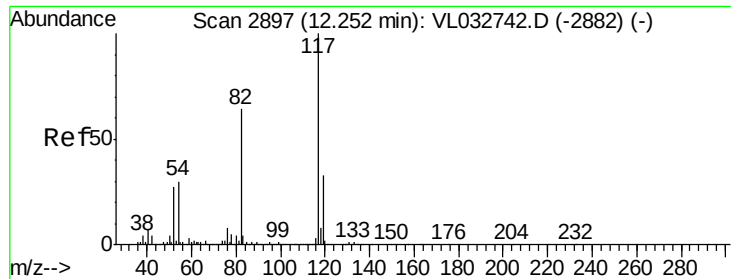
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#53
Toluene
Concen: 11.376 ppbv
RT: 9.95 min Scan# 2182
Delta R.T. -0.01 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.1	47.9	71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032840.D

Acq: 29 Nov 2018 18:41

Instrument :

MSVOA_L

ClientSampled :

IAS-2

Tgt Ion: 117 Resp: 3206444

Ion Ratio Lower Upper

117 100

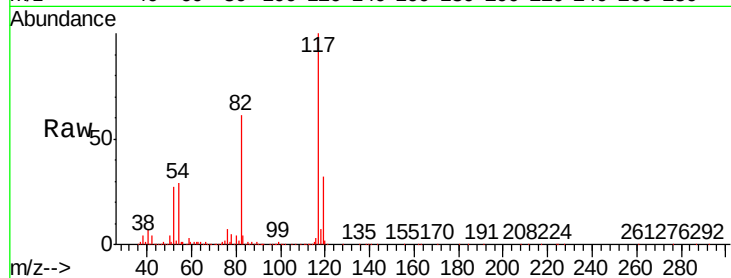
82 64.2 51.0 76.6

119 33.1 28.0 42.0

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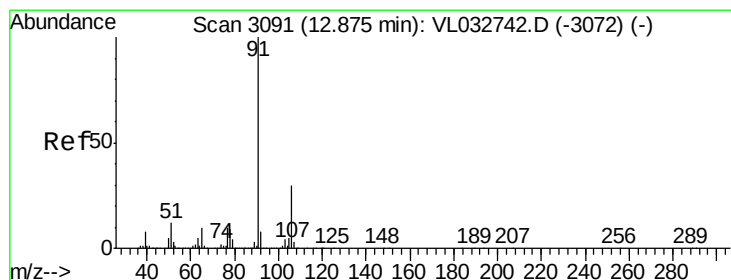
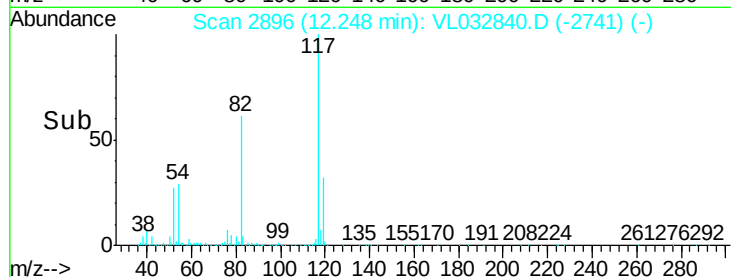
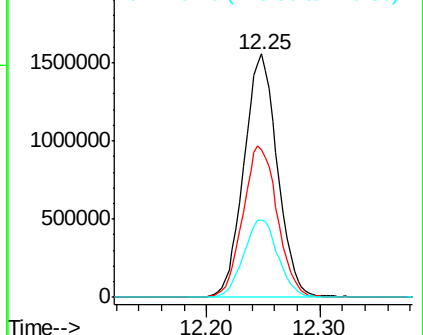
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.637 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. 0.00 min

Lab File: VL032840.D

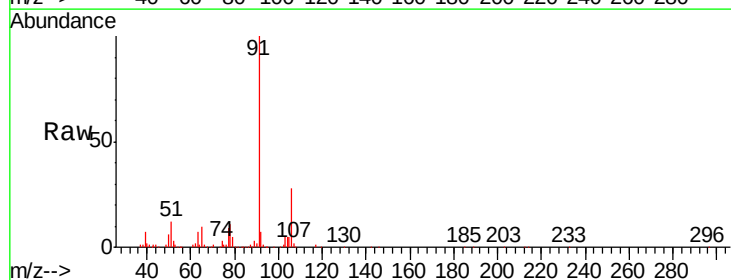
Acq: 29 Nov 2018 18:41

Tgt Ion: 91 Resp: 245995

Ion Ratio Lower Upper

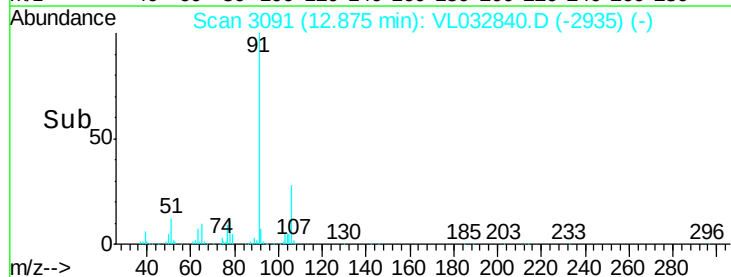
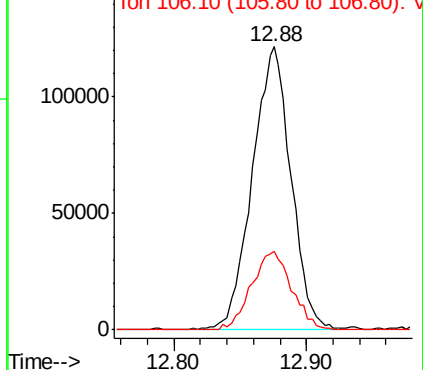
91 100

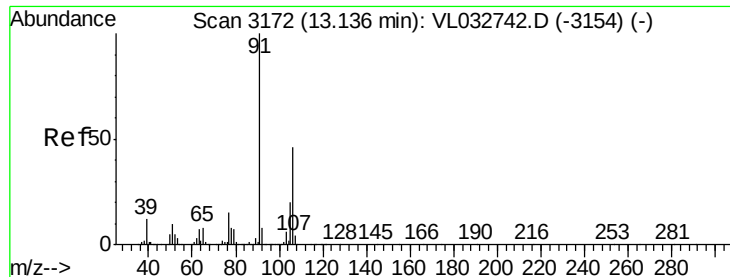
106 27.6 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





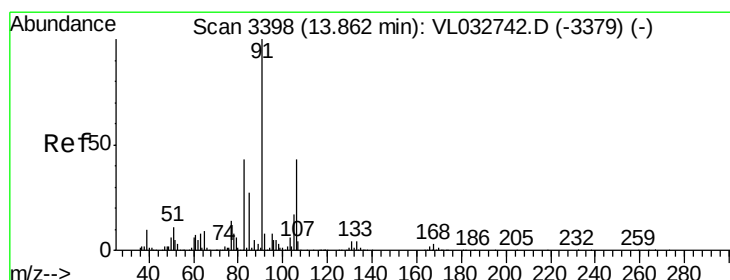
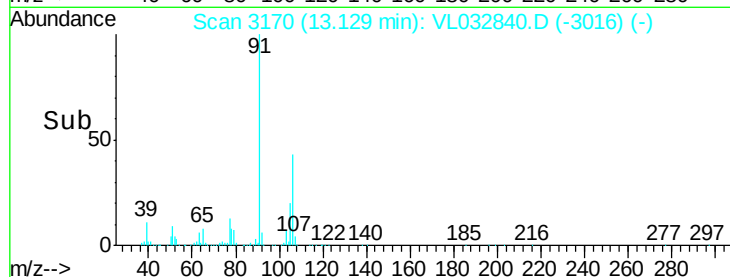
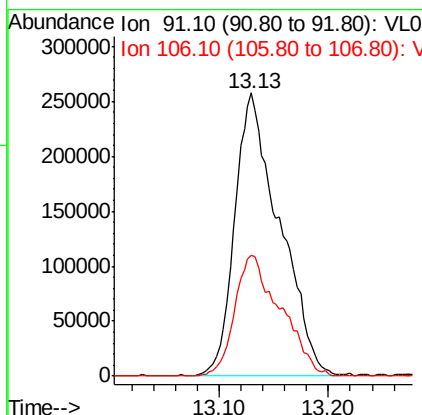
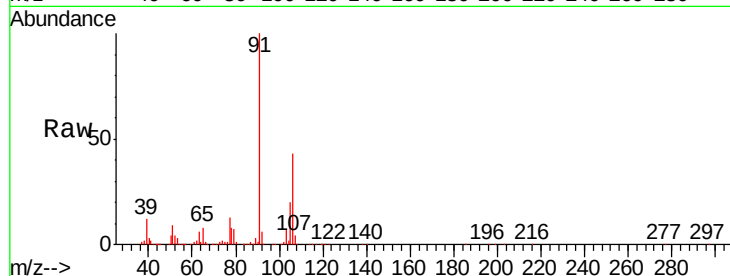
#59
m/p-Xylene
Concen: 2.126 ppbv m
RT: 13.13 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Instrument :
MSVOA_L
ClientSampled :
IAS-2

Tgt Ion: 91 Resp: 730203
Ion Ratio Lower Upper
91 100
106 44.0 36.1 54.1

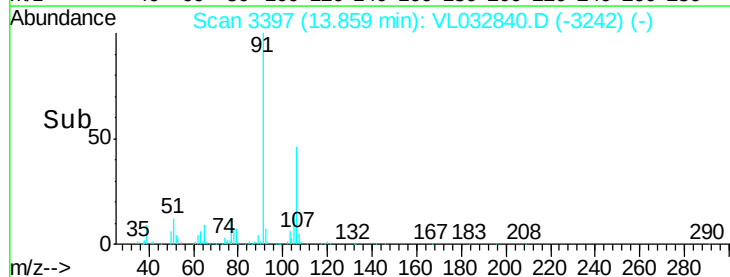
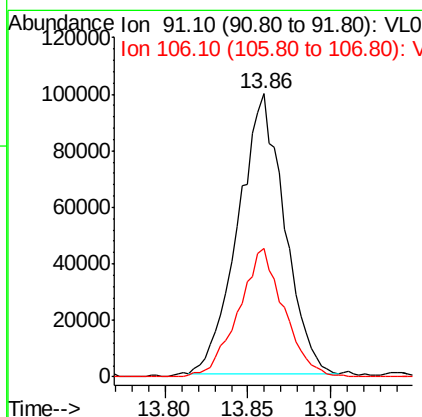
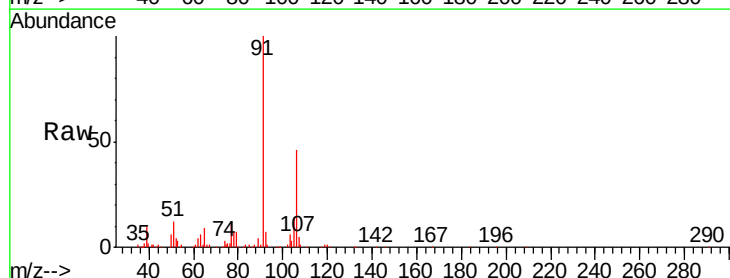
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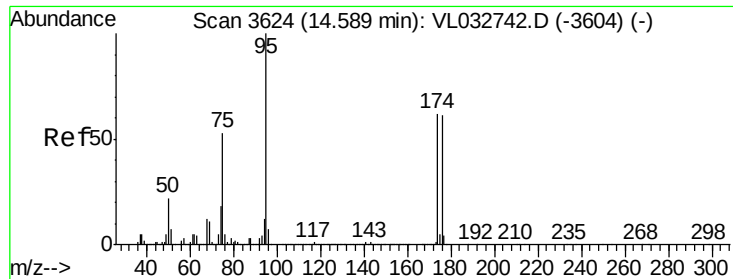
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#60
o-Xylene
Concen: 0.561 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032840.D
Acq: 29 Nov 2018 18:41

Tgt Ion: 91 Resp: 193652
Ion Ratio Lower Upper
91 100
106 44.9 21.9 65.7





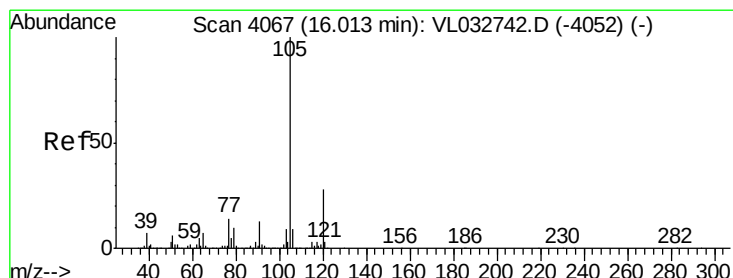
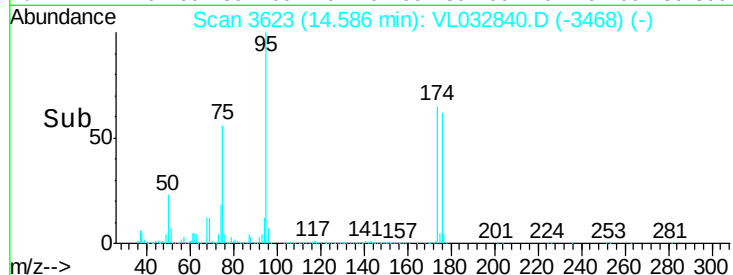
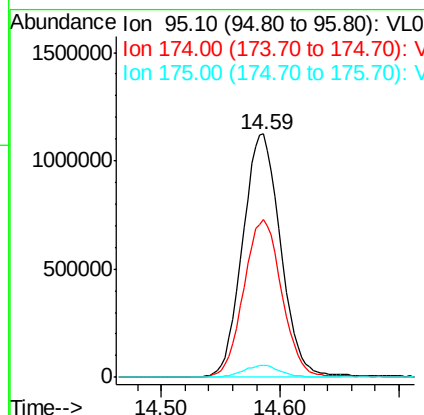
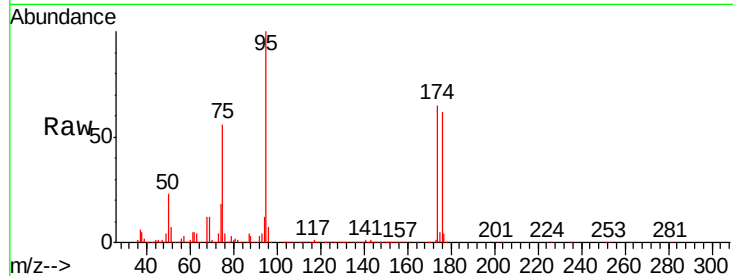
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.354 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. -0.00 min
 Lab File: VL032840.D
 Acq: 29 Nov 2018 18:41

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-2

Tgt Ion: 95 Resp: 2483220
 Ion Ratio Lower Upper
 95 100
 174 65.9 50.7 76.1
 175 4.8 3.8 5.6

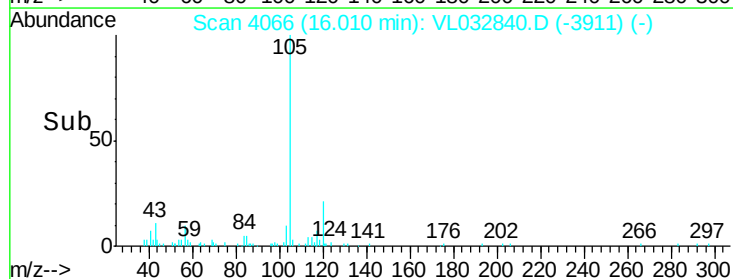
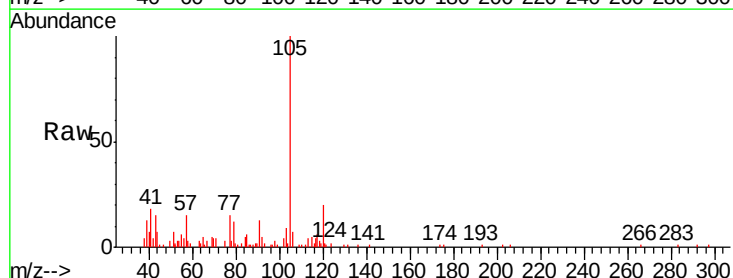
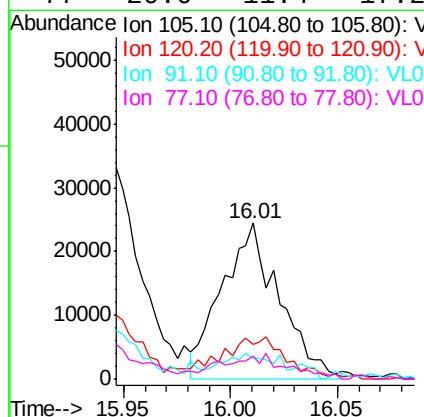
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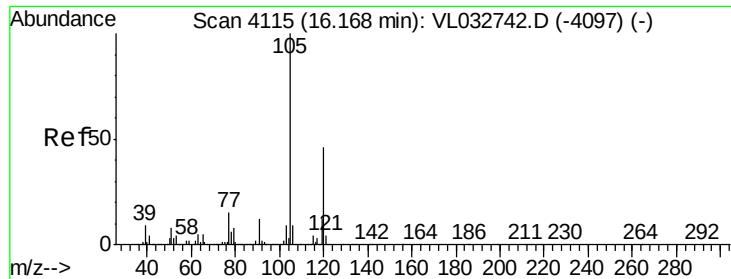
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#72
 4-Ethyltoluene
 Concen: 0.120 ppbv m
 RT: 16.01 min Scan# 4066
 Delta R.T. -0.00 min
 Lab File: VL032840.D
 Acq: 29 Nov 2018 18:41

Tgt Ion: 105 Resp: 45603
 Ion Ratio Lower Upper
 105 100
 120 30.7 22.9 34.3
 91 24.4 10.6 15.8#
 77 20.0 11.4 17.2#





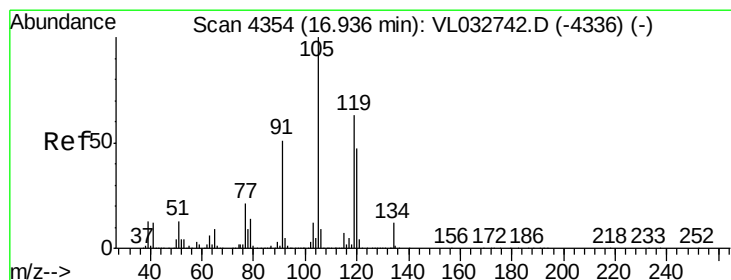
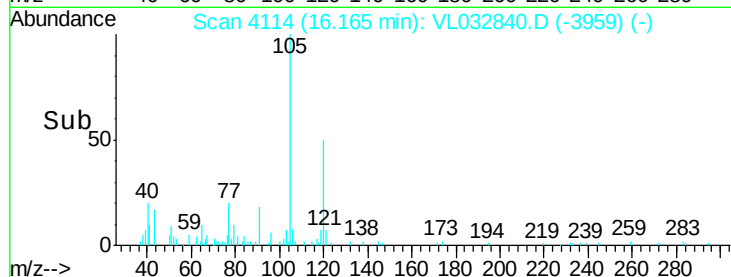
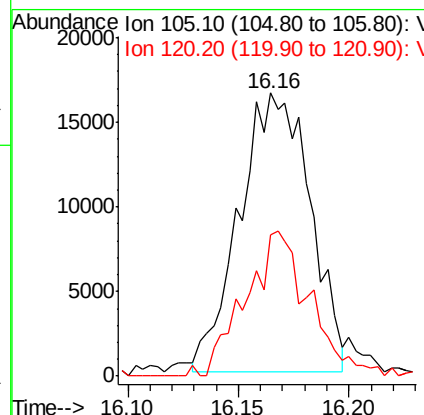
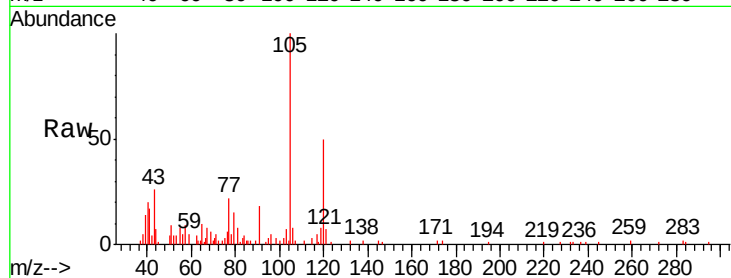
#73
 1,3,5-Trimethylbenzene
 Concen: 0.099 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. -0.00 min
 Lab File: VL032840.D
 Acq: 29 Nov 2018 18:41

Instrument :
 MSVOA_L
 ClientSampled :
 IAS-2

Tgt Ion:105 Resp: 36798
 Ion Ratio Lower Upper
 105 100
 120 55.3 36.6 55.0#

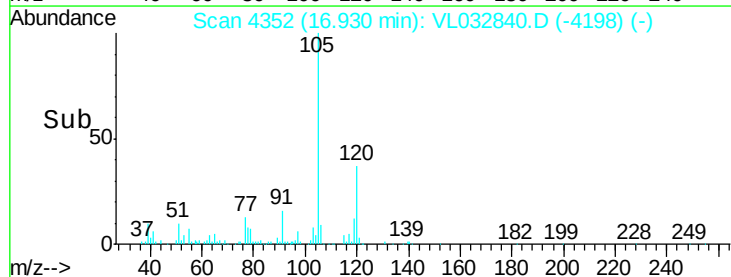
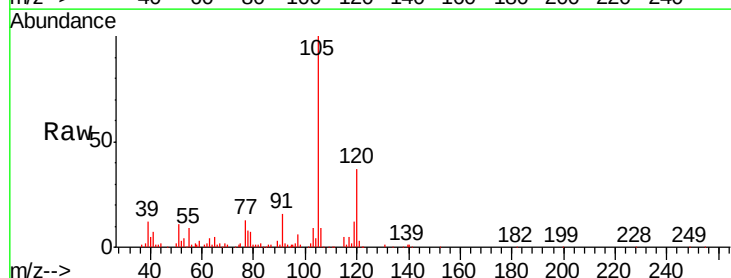
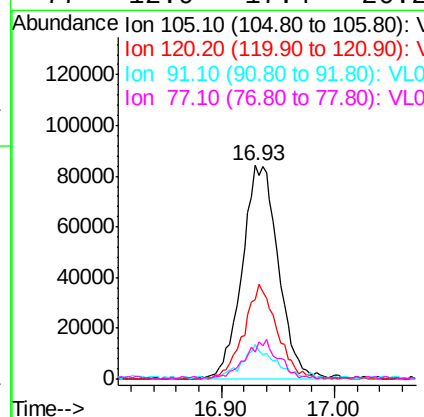
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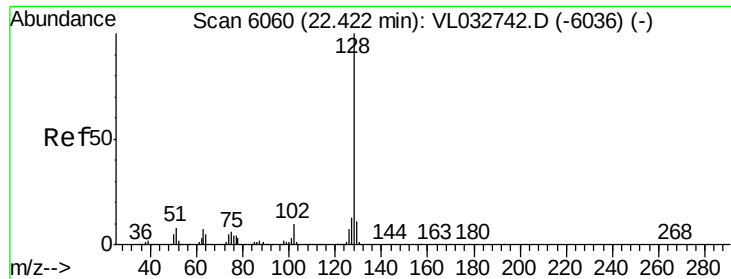
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.476 ppbv m
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL032840.D
 Acq: 29 Nov 2018 18:41

Tgt Ion:105 Resp: 188542
 Ion Ratio Lower Upper
 105 100
 120 37.4 37.6 56.4#
 91 16.3 42.5 63.7#
 77 12.9 17.4 26.2#





#79

Naphthalene

Concen: 0.148 ppbv m

RT: 22.42 min Scan# 6060

Delta R.T. 0.00 min

Lab File: VL032840.D

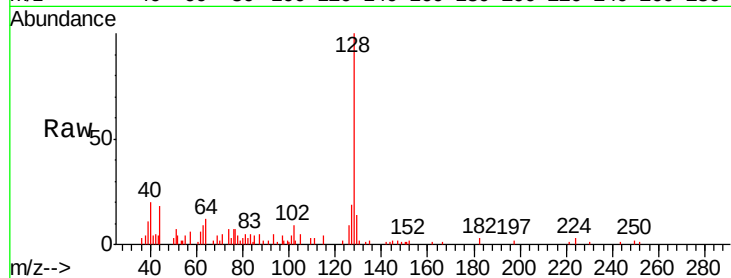
Acq: 29 Nov 2018 18:41

Instrument :

MSVOA_L

ClientSampleId :

IAS-2



Tgt Ion:	128	Resp:	38522
Ion Ratio	Lower	Upper	
128	100		
127	18.9	10.1	15.1#
129	13.8	8.9	13.3#

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