

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032800.D
 Acq On : 21 Nov 2018 5:13
 Operator : SY/AP
 Sample : J6015-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

MMDadoda
 11/26/2018 9:19:01 AM

Quant Time: Nov 21 06:25:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 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	1308616	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3436369	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3148010	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2376967	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	83675	0.445	ppbv	88
3) Chlorodifluoromethane	3.02	51	53518m	0.516	ppbv	
4) Chloromethane	3.18	50	23909	0.416	ppbv #	86
9) Propene	3.05	41	42863m	1.032	ppbv	
11) Trichlorofluoromethane	4.01	101	39450	0.223	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.56	101	12423	0.086	ppbv	97
13) Ethanol	3.66	45	1134434	83.421	ppbv	100
15) Acetone	3.91	43	465266	3.893	ppbv	93
19) Isopropyl Alcohol	4.04	45	145927	1.833	ppbv #	97
20) Methylene Chloride	4.42	84	49874	0.806	ppbv #	92
26) Hexane	5.79	57	50560m	0.408	ppbv	
29) Chloroform	5.85	83	83054	0.376	ppbv #	83
34) 2-Butanone	5.35	43	29257	0.164	ppbv	98
35) Carbon Tetrachloride	7.14	117	18511m	0.067	ppbv	
36) Benzene	7.01	78	81332	0.297	ppbv	96
44) 2,2,4-Trimethylpentane	8.00	57	62128	0.136	ppbv #	78
52) Tetrachloroethene	11.38	164	55312m	0.581	ppbv	
53) Toluene	9.96	91	184126	0.645	ppbv	100
59) m/p-Xylene	13.13	91	68754m	0.204	ppbv	
74) 1,2,4-Trimethylbenzene	16.94	105	45970	0.118	ppbv #	63

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

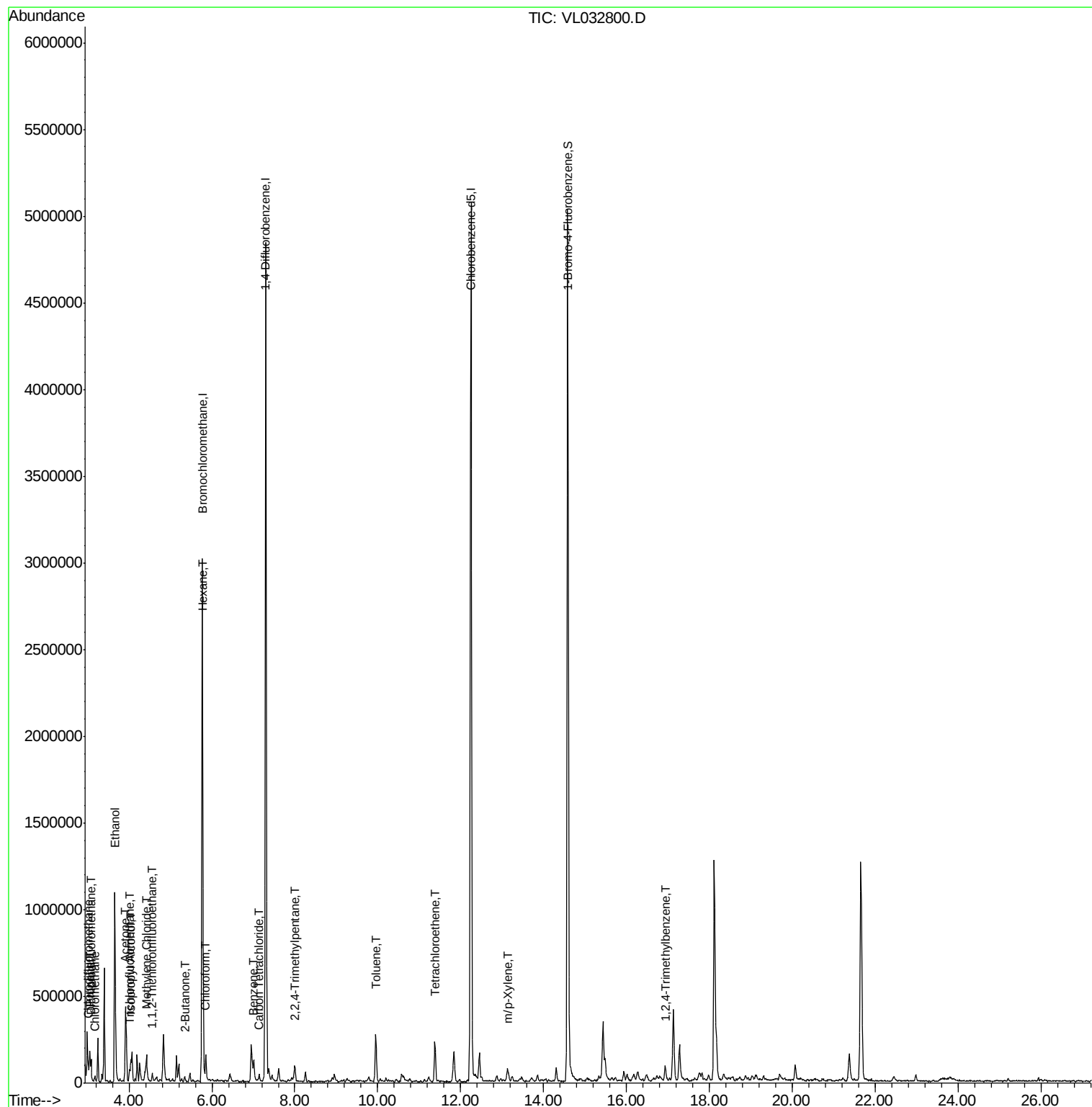
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112018\
Data File : VL032800.D
Acq On : 21 Nov 2018 5:13
Operator : SY/AP
Sample : J6015-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

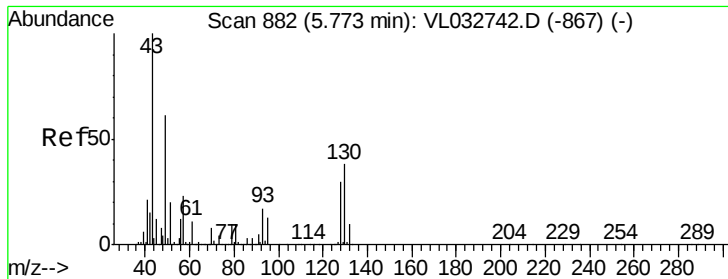
Instrument :
MSVOA_L
ClientSampleId :
IA-1

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Quant Time: Nov 21 06:25:11 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# 881

Delta R.T. -0.00 min

Lab File: VL032800.D

Acq: 21 Nov 2018 5:13

Instrument :

MSVOA_L

ClientSampled :

IA-1

Tot Ion: 49 Resp: 1308616

Ion Ratio Lower Upper

49 100

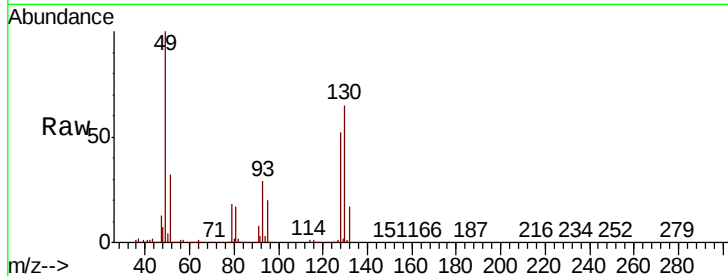
128 52.4 24.9 74.6

130 67.3 31.4 94.2

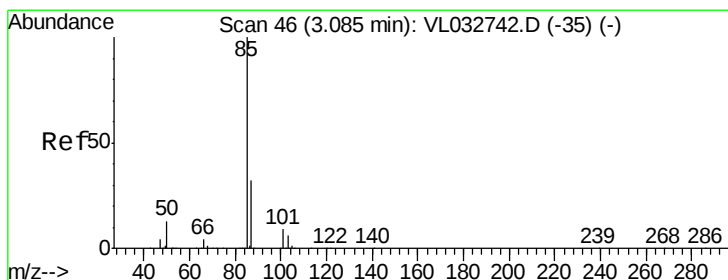
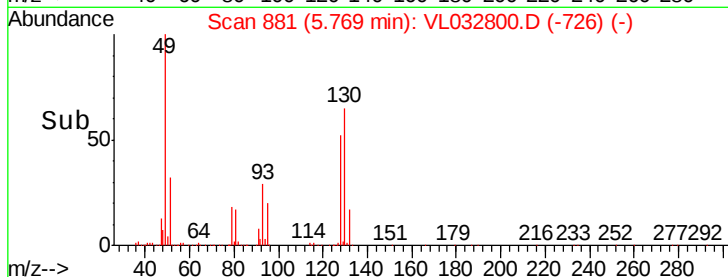
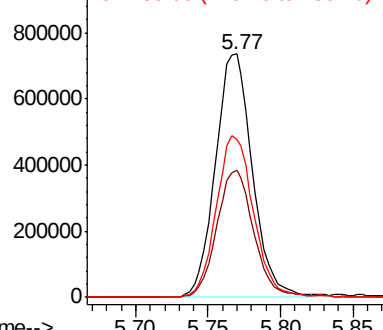
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Abundance Ion 49.10 (48.80 to 49.80): VL0
1000000 Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.445 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032800.D

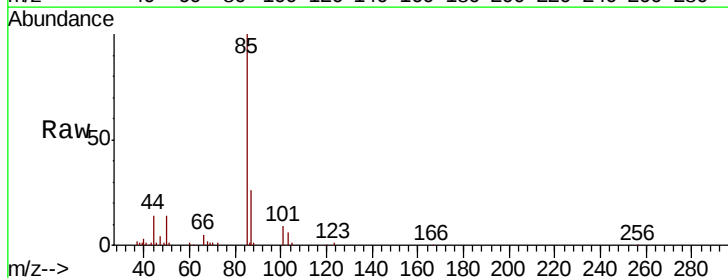
Acq: 21 Nov 2018 5:13

Tgt Ion: 85 Resp: 83675

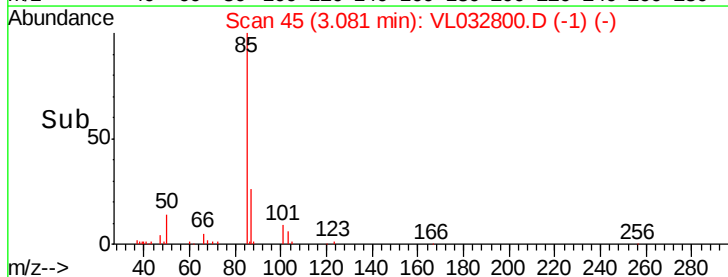
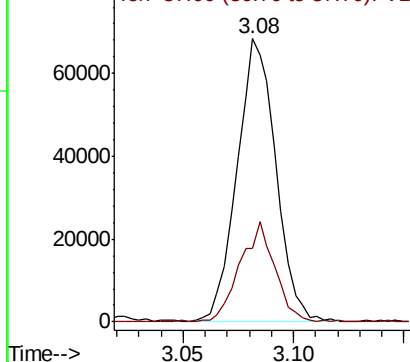
Ion Ratio Lower Upper

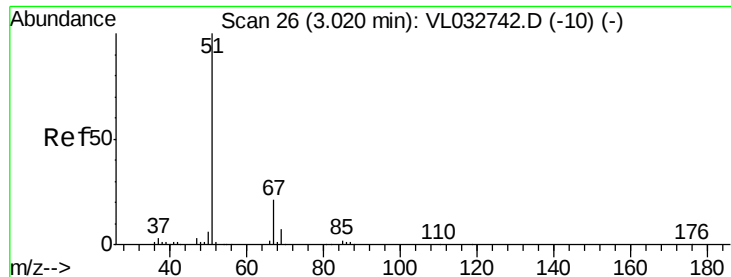
85 100

87 26.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
80000 Ion 87.00 (86.70 to 87.70): VL0





#3

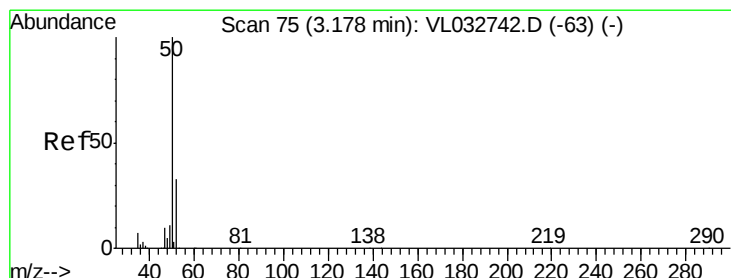
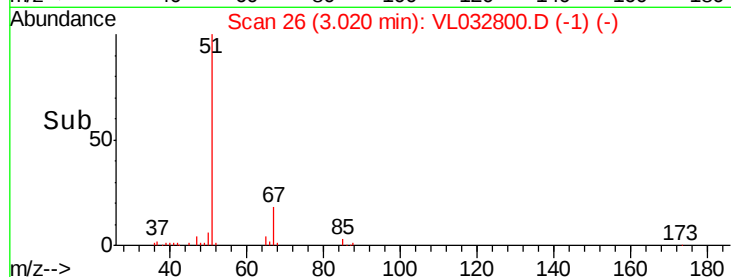
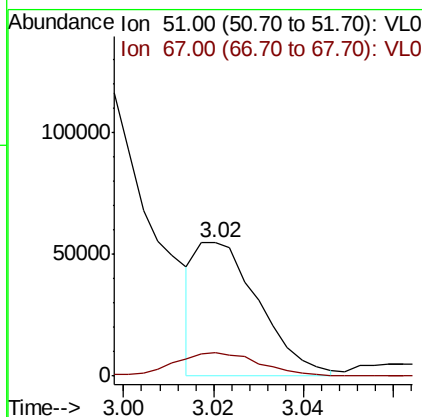
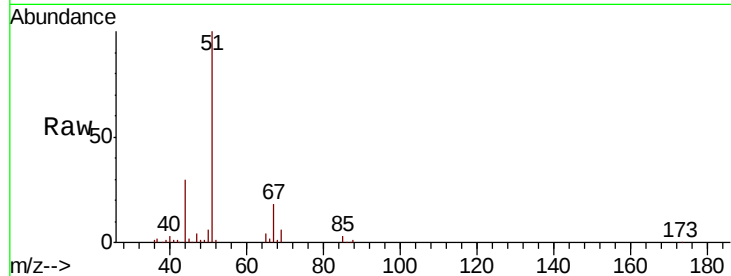
Chlorodifluoromethane
Concen: 0.516 ppbv
RT: 3.02 min Scan# 26
Delta R.T. 0.00 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	24.3	16.1	24.1#

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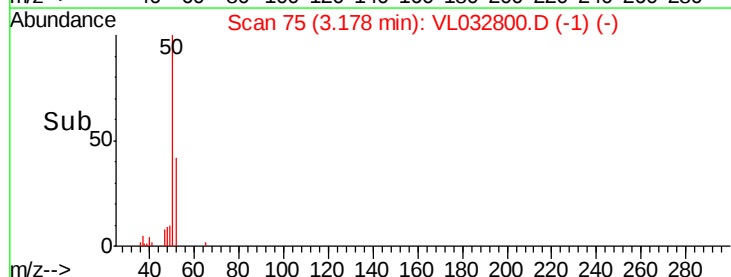
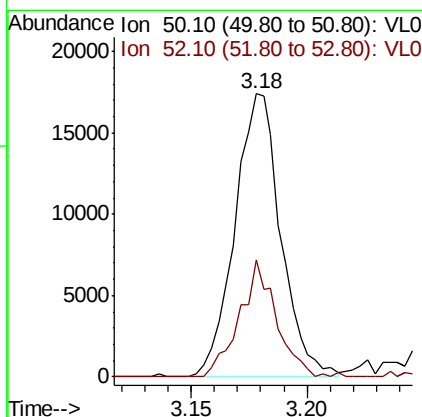
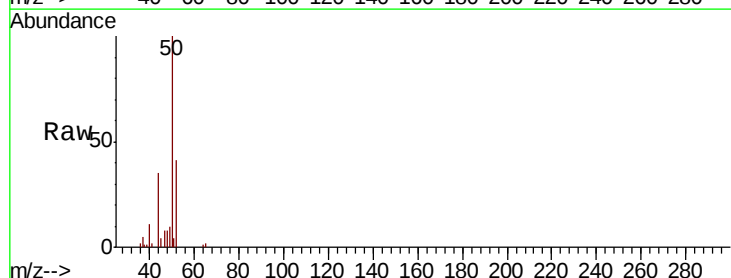
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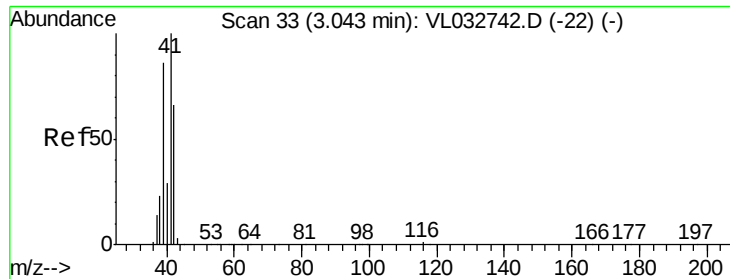


#4

Chloromethane
Concen: 0.416 ppbv
RT: 3.18 min Scan# 75
Delta R.T. 0.00 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Tgt Ion	Ratio	Lower	Upper
50	100		
52	41.2	26.6	40.0#





#9

Propene

Concen: 1.032 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032800.D

Acq: 21 Nov 2018 5:13

Instrument :

MSVOA_L

ClientSampled :

IA-1

Tot Ion: 41 Resp: 42863

Ion Ratio Lower Upper

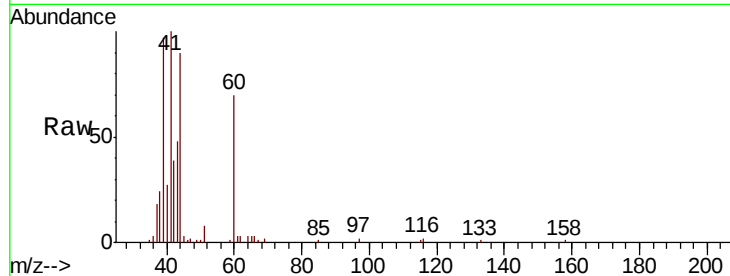
41 100

42 100.7 55.0 82.6#

Manual Integrations
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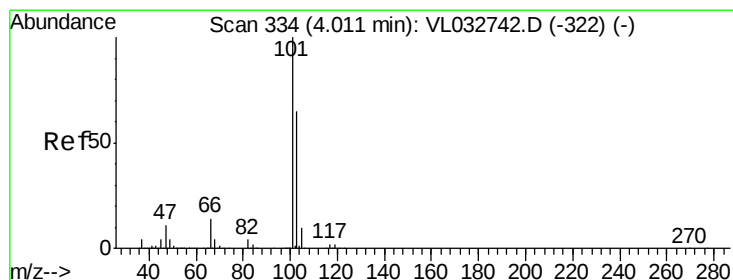
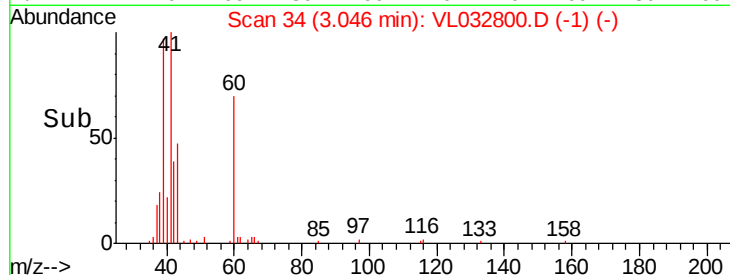
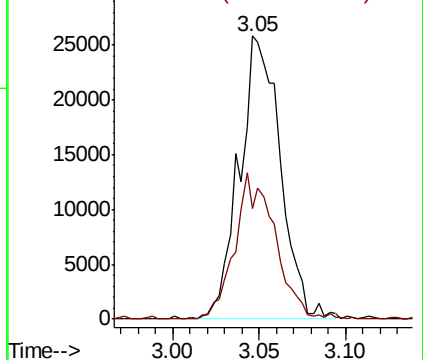
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.223 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032800.D

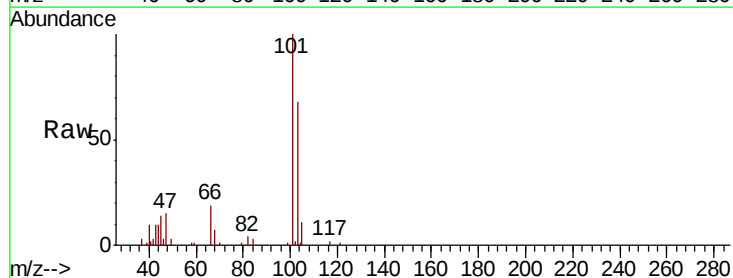
Acq: 21 Nov 2018 5:13

Tgt Ion: 101 Resp: 39450

Ion Ratio Lower Upper

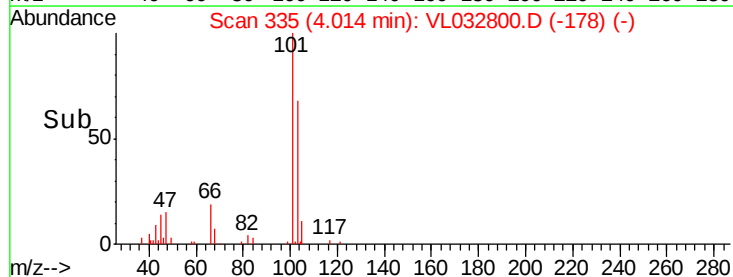
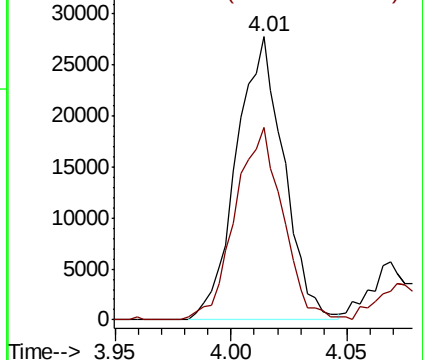
101 100

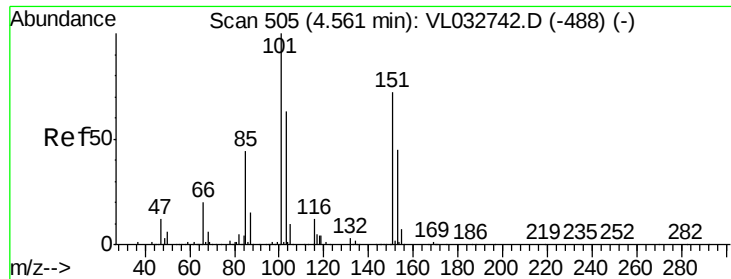
103 66.9 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.086 ppbv

RT: 4.56 min Scan# 504

Delta R.T. -0.00 min

Lab File: VL032800.D

Acq: 21 Nov 2018 5:13

Instrument :

MSVOA_L

ClientSampled :

IA-1

Tot Ion:101 Resp: 12423

Ion Ratio Lower Upper

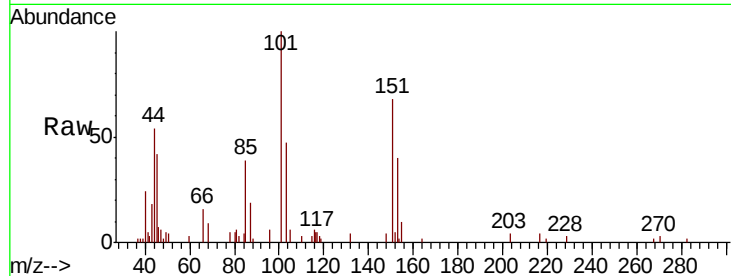
101 100

151 73.2 56.7 85.1

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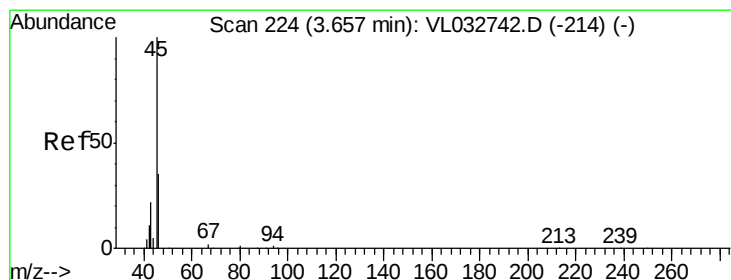
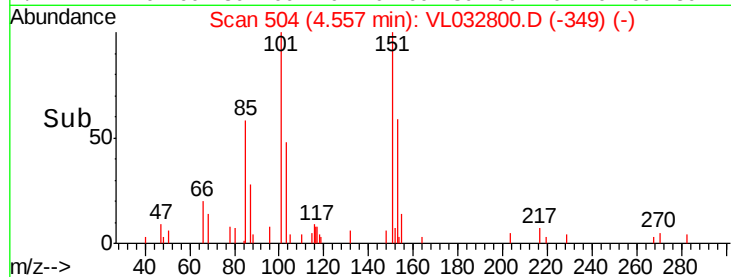
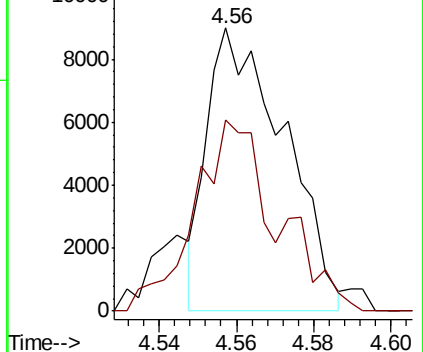
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 83.421 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032800.D

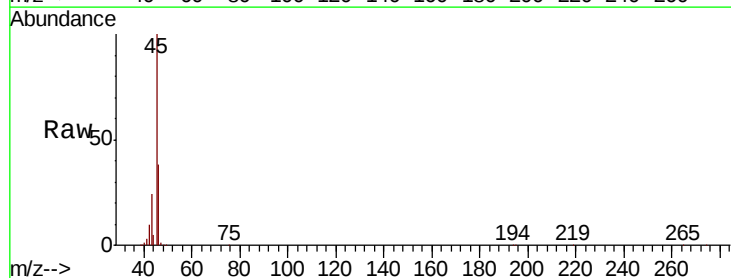
Acq: 21 Nov 2018 5:13

Tgt Ion: 45 Resp: 1134434

Ion Ratio Lower Upper

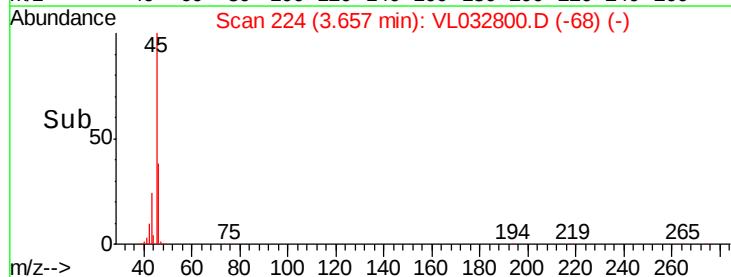
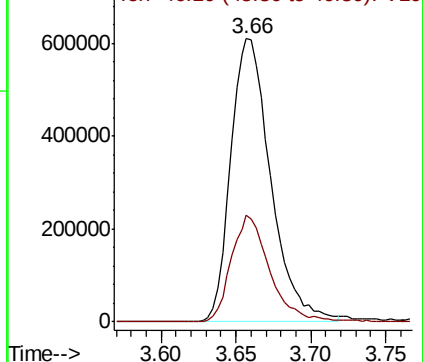
45 100

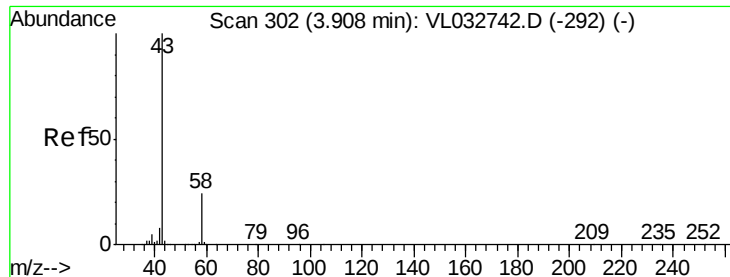
46 36.4 14.5 57.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





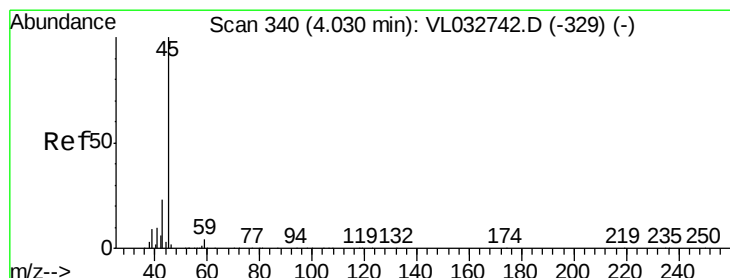
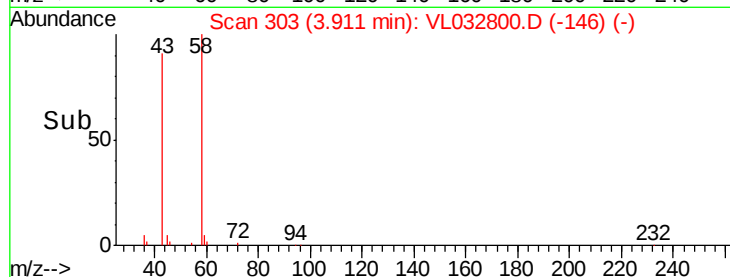
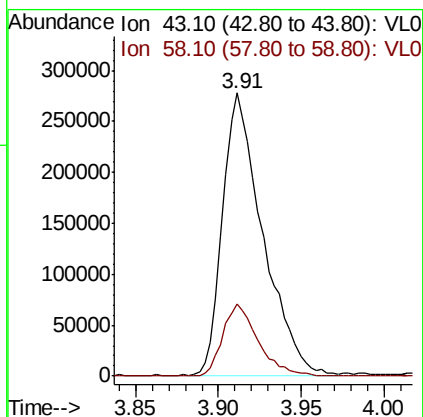
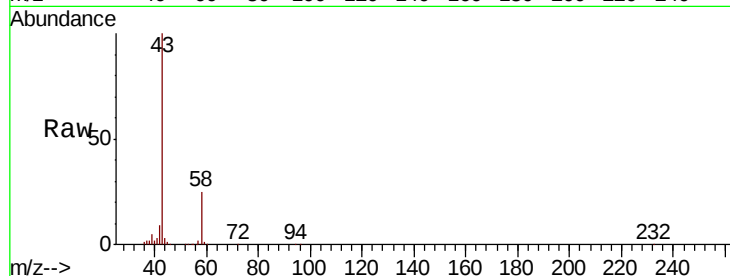
#15
Acetone
Concen: 3.893 ppbv
RT: 3.91 min Scan# 303
Delta R.T. 0.00 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion: 43 Resp: 465266
Ion Ratio Lower Upper
43 100
58 22.9 21.1 31.7

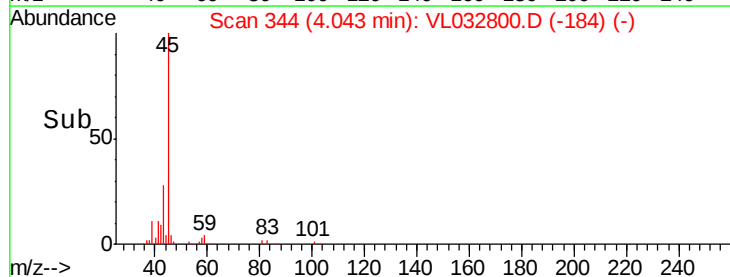
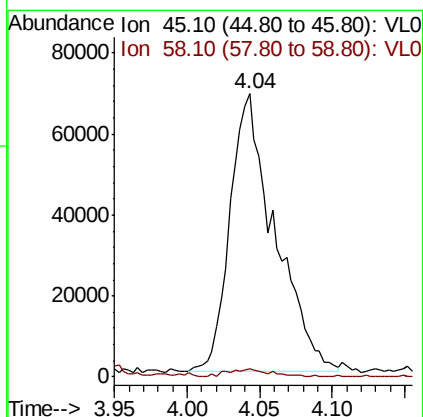
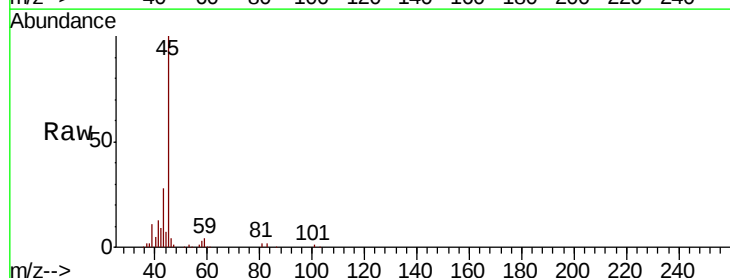
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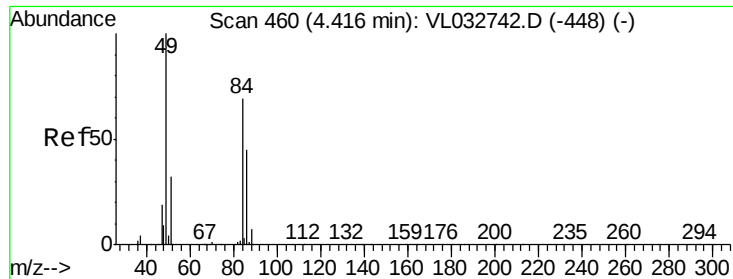
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#19
Isopropyl Alcohol
Concen: 1.833 ppbv
RT: 4.04 min Scan# 344
Delta R.T. 0.01 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Tgt Ion: 45 Resp: 145927
Ion Ratio Lower Upper
45 100
58 3.0 1.4 2.0#





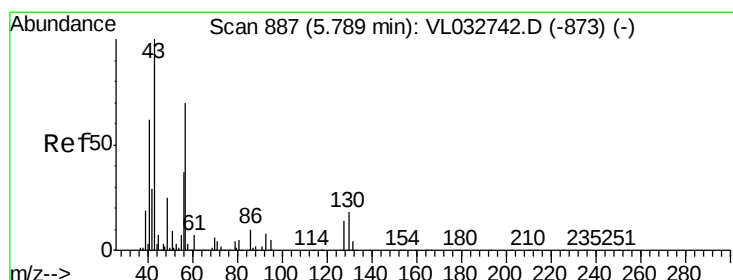
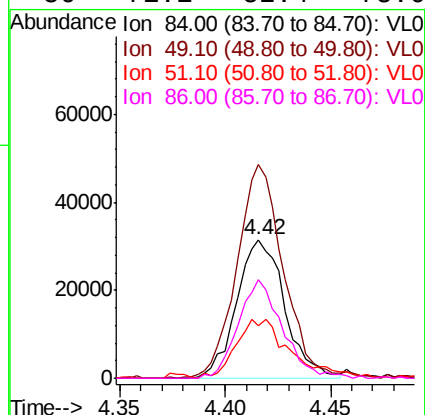
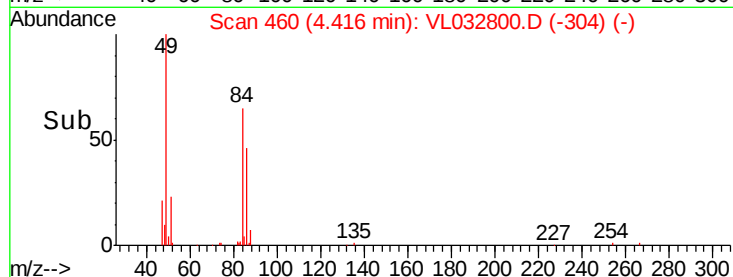
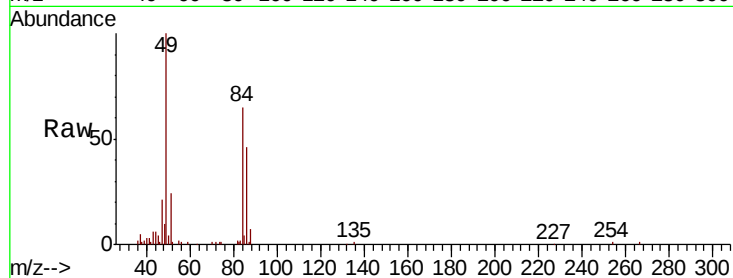
#20
Methvlene Chloride
Concen: 0.806 ppbv
RT: 4.42 min Scan# 460
Delta R.T. -0.00 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
84	100		
49	153.4	115.8	173.6
51	36.7	36.9	55.3#
86	71.1	52.4	78.6

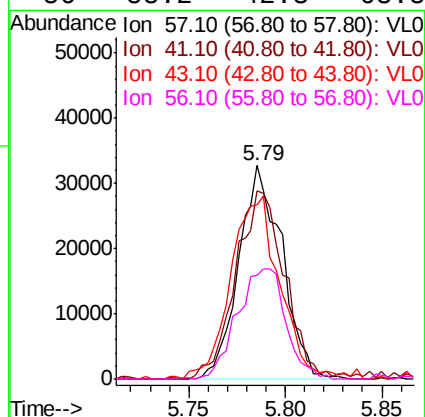
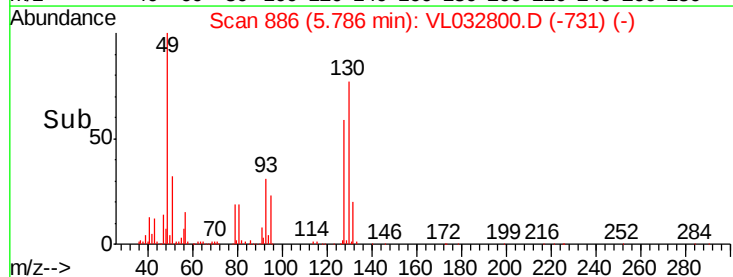
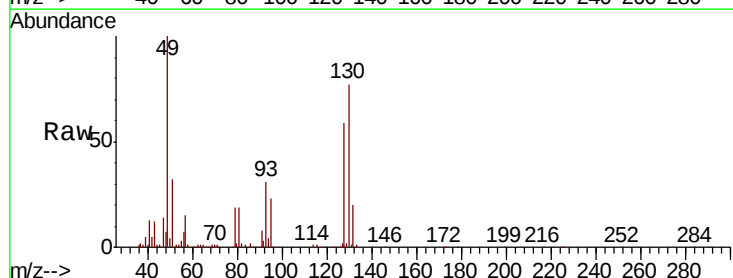
Manual Integrations
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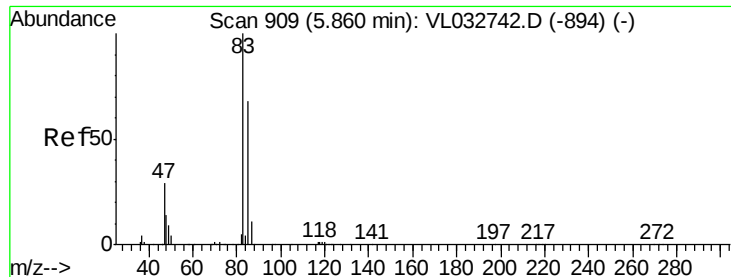
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#26
Hexane
Concen: 0.408 ppbv m
RT: 5.79 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Tgt Ion	Ratio	Lower	Upper
57	100		
41	101.1	70.3	105.5
43	99.0	174.0	261.0#
56	58.2	42.3	63.5





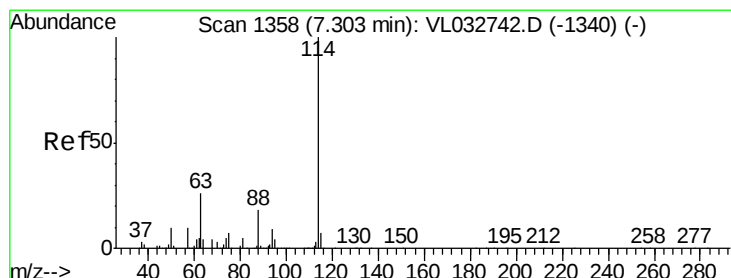
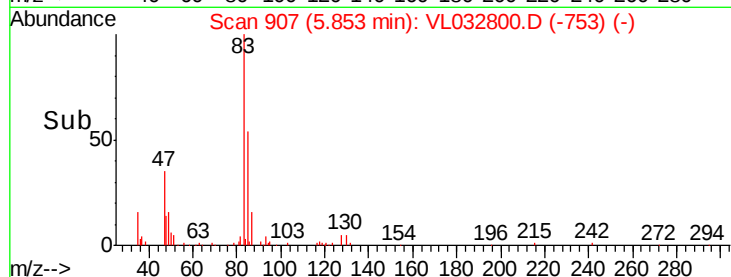
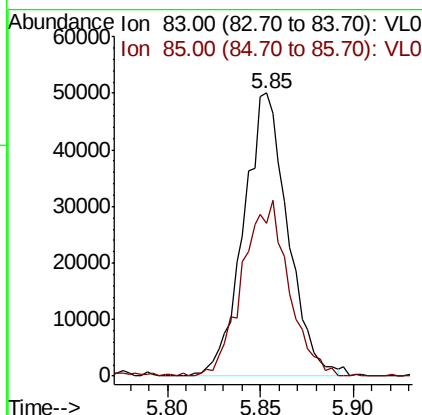
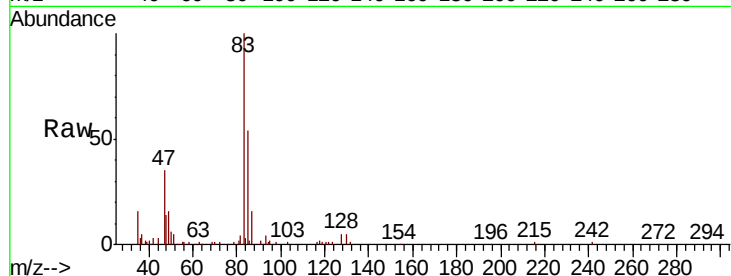
#29
Chloroform
Concen: 0.376 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.01 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion: 83 Resp: 83054
Ion Ratio Lower Upper
83 100
85 54.2 54.2 81.4#

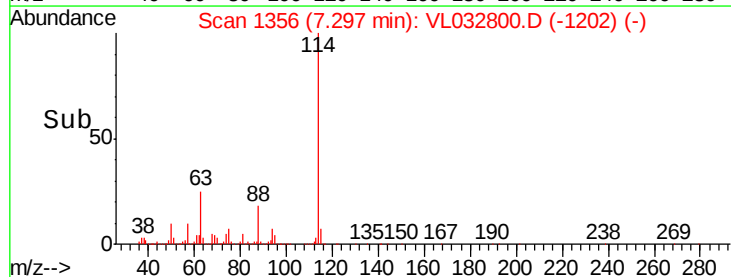
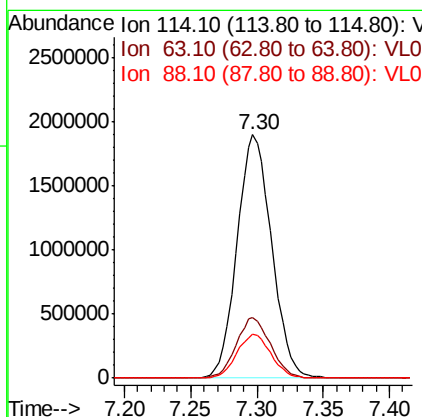
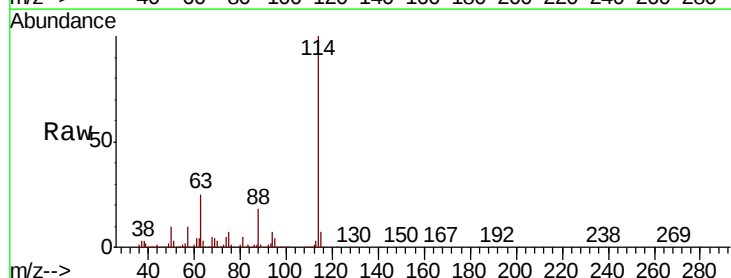
Manual Integrations
APPROVED

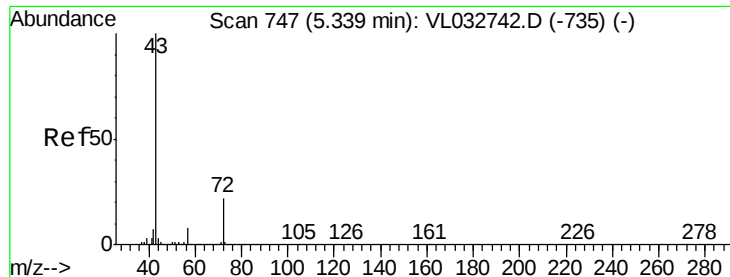
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Tgt Ion: 114 Resp: 3436369
Ion Ratio Lower Upper
114 100
63 24.7 20.9 31.3
88 17.9 14.4 21.6





#34

2-Butanone

Concen: 0.164 ppbv

RT: 5.35 min Scan# 750

Delta R.T. 0.01 min

Lab File: VL032800.D

Acq: 21 Nov 2018 5:13

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 43 Resp: 29257

Ion Ratio Lower Upper

43 100

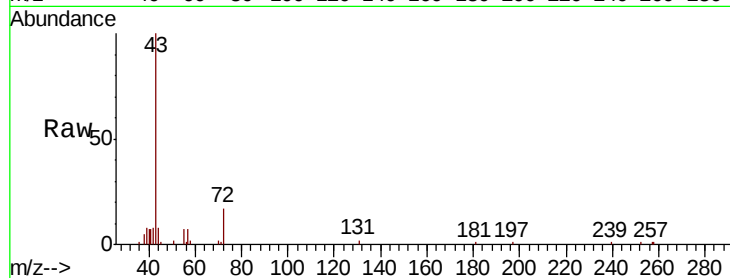
72 23.9 18.4 27.6

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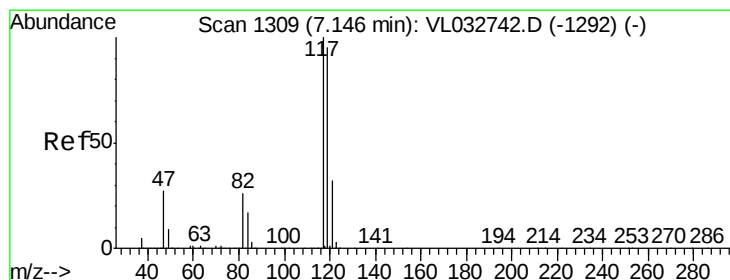
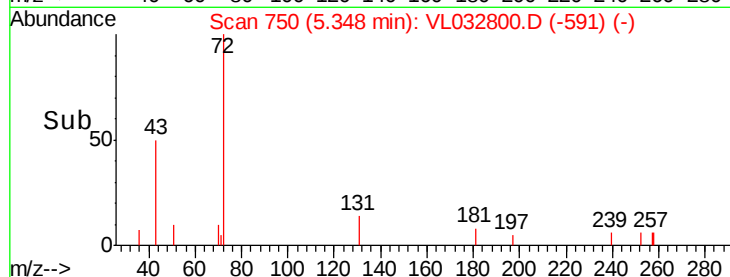
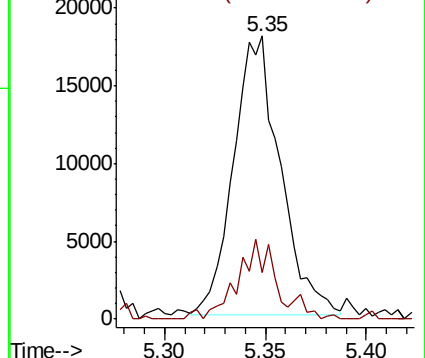
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032800.D

Acq: 21 Nov 2018 5:13

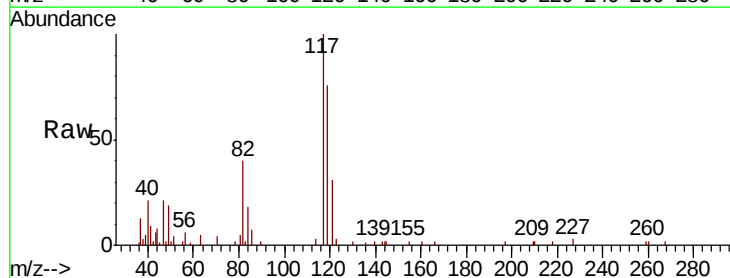
Tgt Ion: 117 Resp: 18511

Ion Ratio Lower Upper

117 100

119 76.3 76.1 114.1

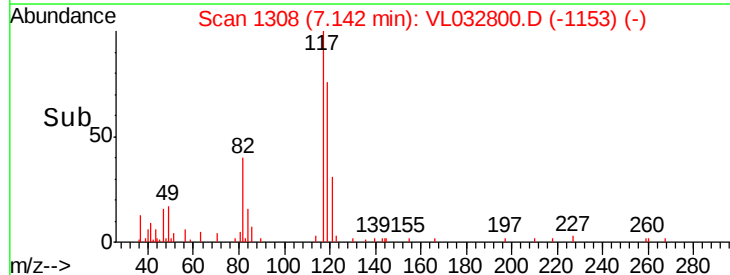
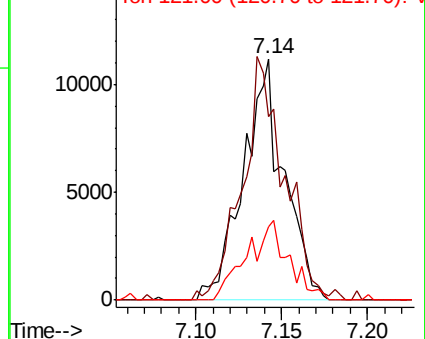
121 30.7 25.4 38.0

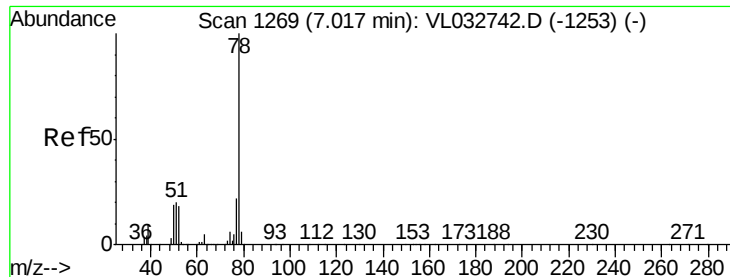


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





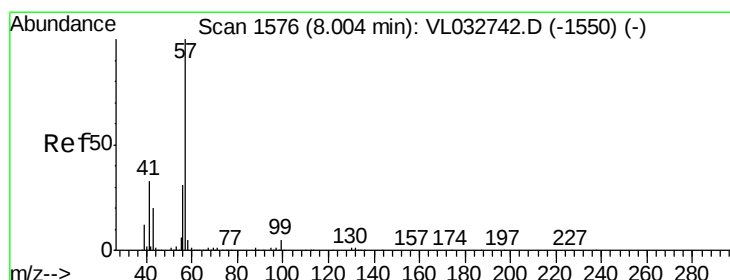
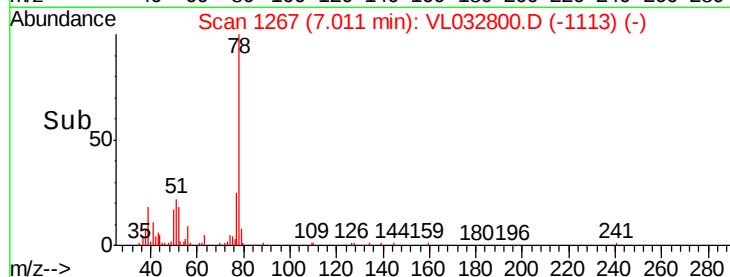
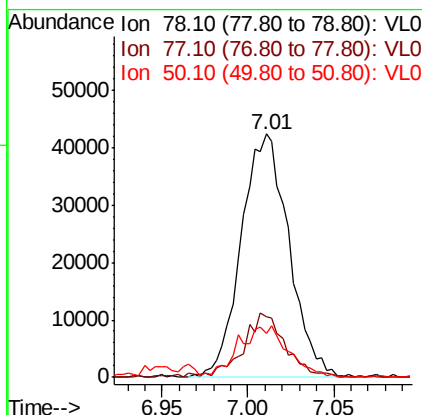
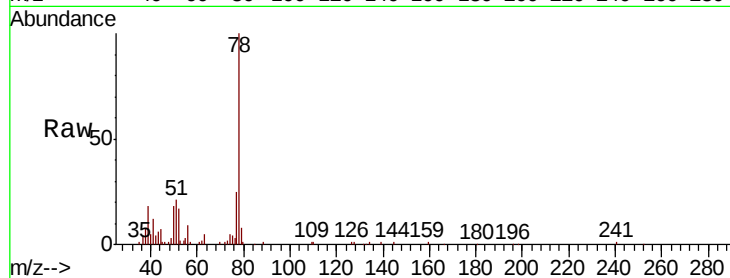
#36
Benzene
Concen: 0.297 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.1	17.8	26.8
50	17.4	15.4	23.0

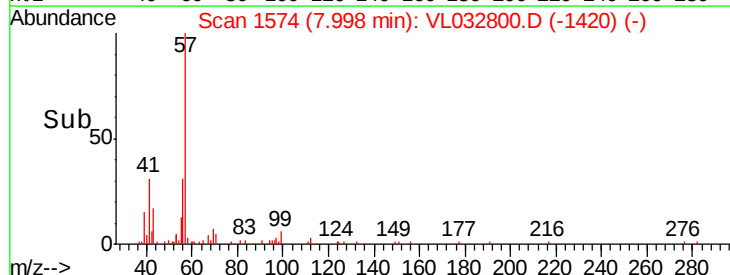
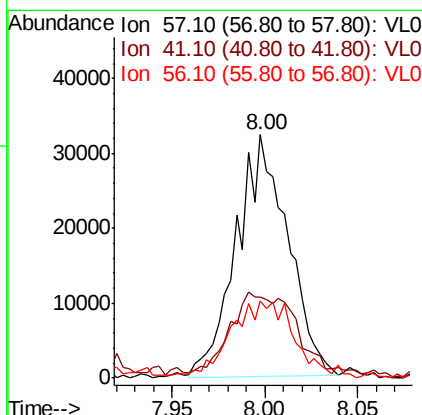
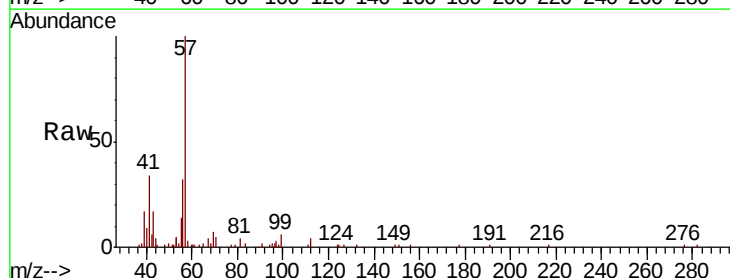
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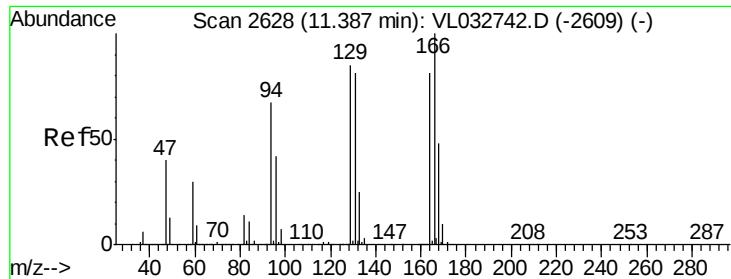
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#44
2,2,4-Trimethylpentane
Concen: 0.136 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Tgt Ion	Ratio	Lower	Upper
57	100		
41	47.8	26.6	39.8#
56	41.0	24.8	37.2#





#52

Tetrachloroethene

Concen: 0.581 ppbv m

RT: 11.38 min Scan# 2625

Delta R.T. -0.01 min

Lab File: VL032800.D

Acq: 21 Nov 2018 5:13

Instrument :

MSVOA_L

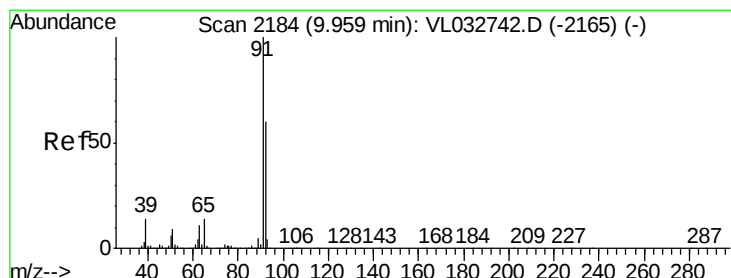
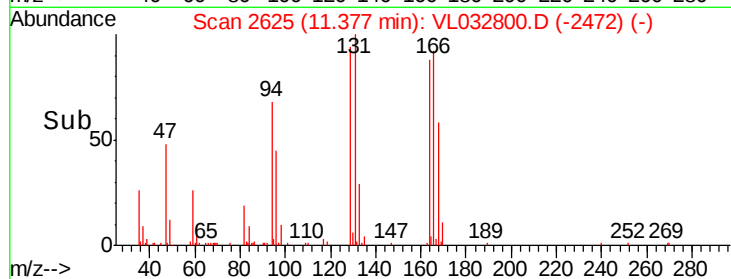
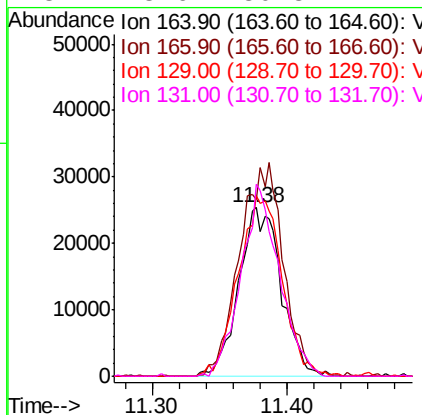
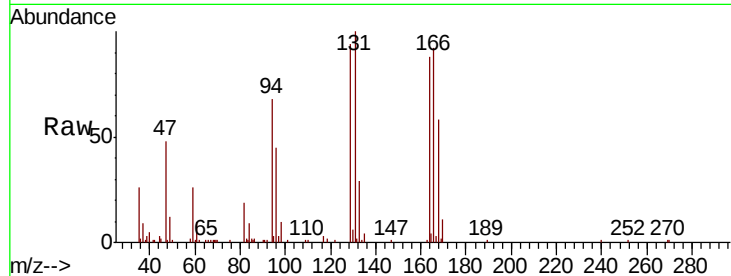
ClientSampled :

IA-1

Tot Ion:	164	Resp:	55312
Ion Ratio	Lower	Upper	
164	100		
166	104.8	99.3	148.9
129	106.7	83.9	125.9
131	113.6	80.8	121.2

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#53

Toluene

Concen: 0.645 ppbv

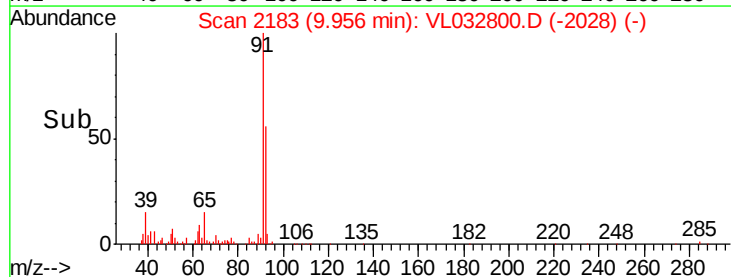
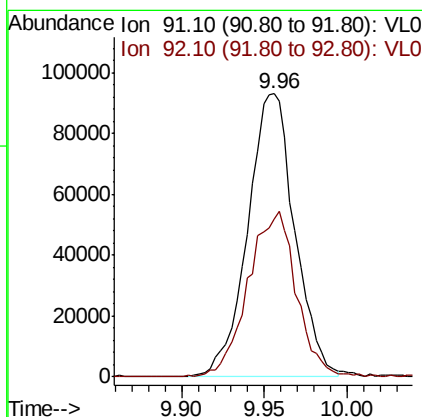
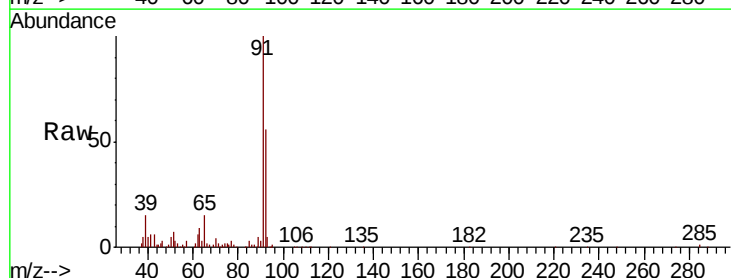
RT: 9.96 min Scan# 2183

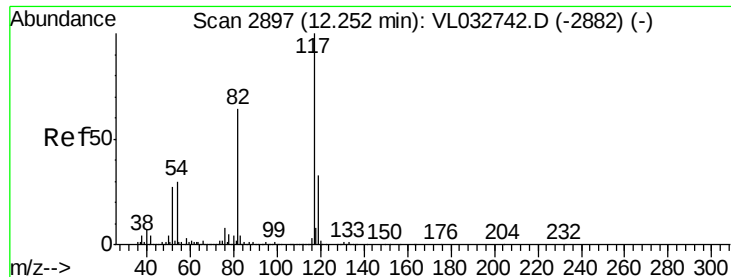
Delta R.T. -0.00 min

Lab File: VL032800.D

Acq: 21 Nov 2018 5:13

Tgt Ion:	91	Resp:	184126
Ion Ratio	Lower	Upper	
91	100		
92	60.0	47.9	71.9





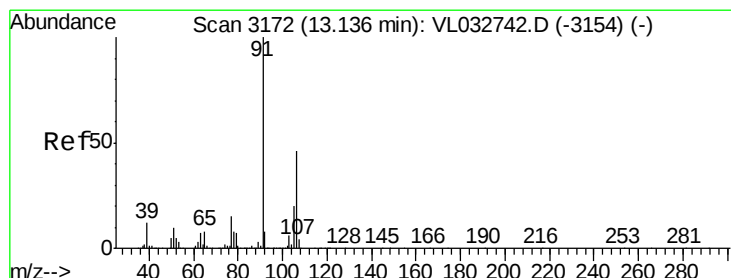
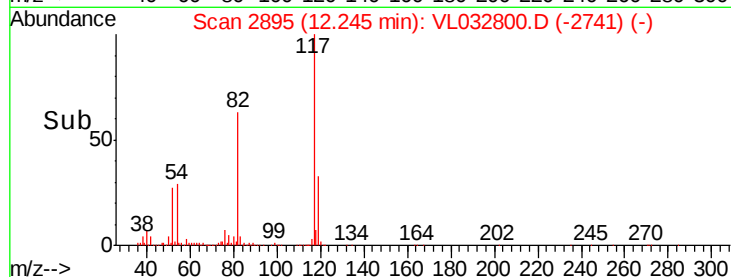
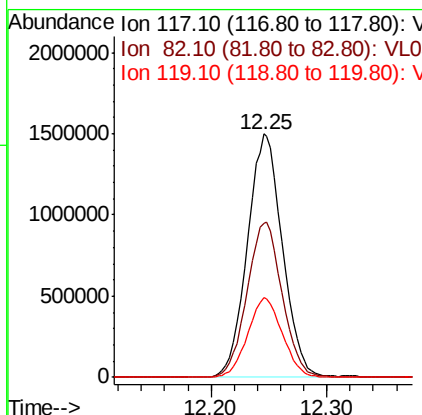
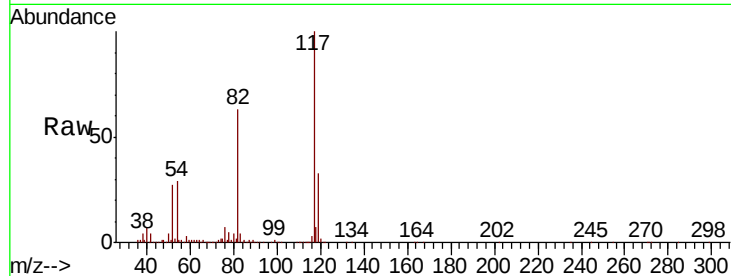
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.2	51.0	76.6
119	32.4	28.0	42.0

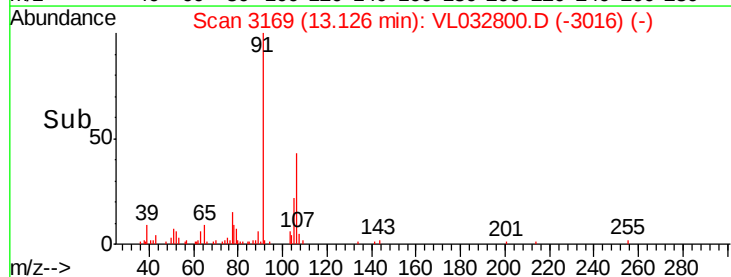
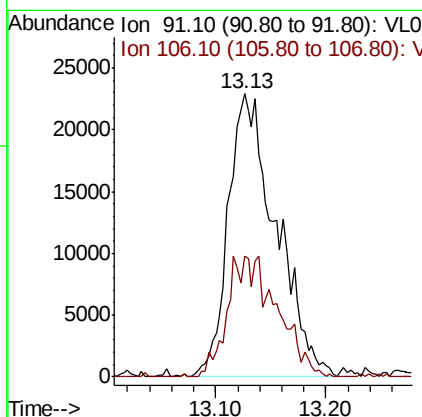
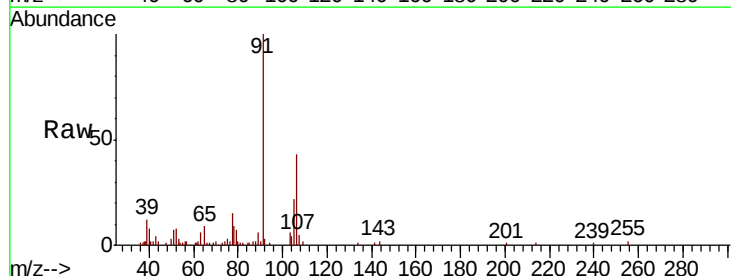
Manual Integrations
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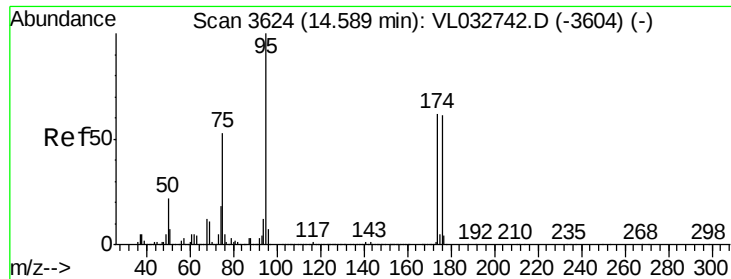
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#59
m/p-Xylene
Concen: 0.204 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL032800.D
Acq: 21 Nov 2018 5:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.4	36.1	54.1





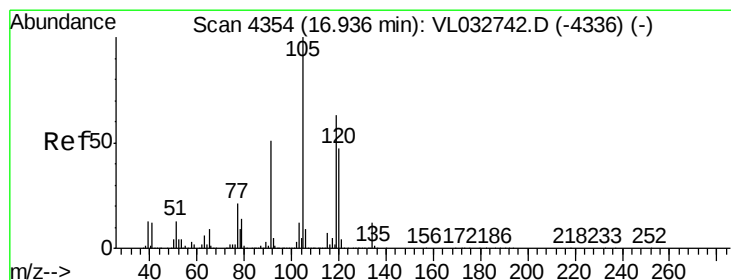
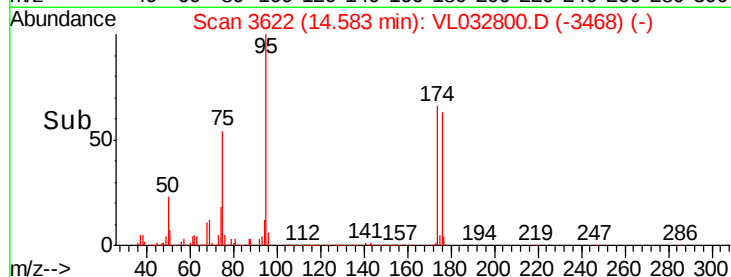
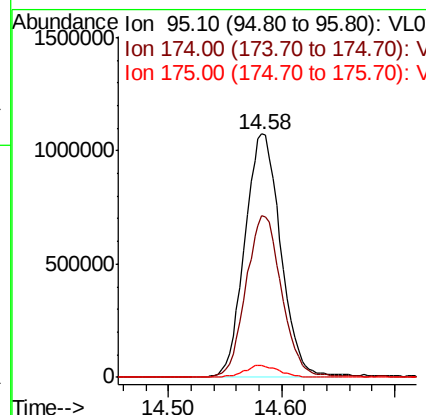
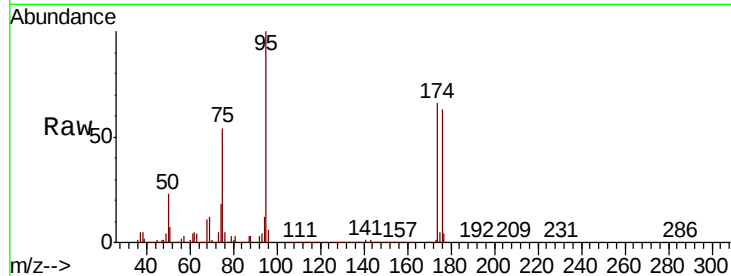
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.095 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL032800.D
 Acq: 21 Nov 2018 5:13

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Tot Ion: 95 Resp: 2376967
 Ion Ratio Lower Upper
 95 100
 174 67.0 50.7 76.1
 175 4.9 3.8 5.6

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.118 ppbv
 RT: 16.94 min Scan# 4354
 Delta R.T. -0.00 min
 Lab File: VL032800.D
 Acq: 21 Nov 2018 5:13

Tgt Ion: 105 Resp: 45970
 Ion Ratio Lower Upper
 105 100
 120 27.0 37.6 56.4#
 91 16.4 42.5 63.7#
 77 14.3 17.4 26.2#

