

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031888.D
 Acq On : 19 Apr 2018 21:35
 Operator : SY/AP
 Sample : J2133-15 0.1 PPBV
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Manual Integrations
 APPROVED

sam
 4/23/2018 12:50:11 PM

Quant Time: Apr 20 09:08:17 2018

Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018

QLast Update : Fri Apr 13 16:50:02 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1084151	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2511367	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2485498	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.72	95	2056692	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.16	85	32912	0.15	ppbv	100
3) Chlorodifluoromethane	3.10	51	18415	0.15	ppbv	92
4) Chloromethane	3.26	50	9800	0.15	ppbv #	73
5) Vinyl Chloride	3.38	62	9274m	0.13	ppbv	
6) Bromomethane	3.61	94	6432m	0.14	ppbv	
7) Chloroethane	3.70	64	4383m	0.15	ppbv	
8) Dichlorotetrafluoroethane	3.31	85	25975	0.14	ppbv	98
9) Propene	3.13	41	4929	0.11	ppbv	92
10) Heptane	8.39	43	10533m	0.07	ppbv	
11) Trichlorofluoromethane	4.11	101	31550	0.14	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.67	101	19281	0.14	ppbv	99
13) Ethanol	3.77	45	2763m	0.19	ppbv	
14) Bromoethene	3.90	108	6153m	0.11	ppbv	
15) Acetone	4.04	43	33181	0.20	ppbv	93
16) 1,3-Butadiene	3.46	39	5653	0.09	ppbv #	55
17) tert-Butyl alcohol	4.52	59	10658m	0.15	ppbv	
18) 1,1-Dichloroethene	4.47	96	7583m	0.12	ppbv	
19) Isopropyl Alcohol	4.16	45	11247m	0.12	ppbv	
20) Methylene Chloride	4.52	84	13726m	0.23	ppbv	
21) Allyl Chloride	4.59	41	10114m	0.11	ppbv	
22) trans-1,2-Dichloroethene	5.07	96	8179m	0.13	ppbv	
23) Vinyl Acetate	5.29	43	15847m	0.09	ppbv	
24) 1,1-Dichloroethane	5.21	63	19108	0.11	ppbv #	81
25) Ethyl Acetate	5.90	43	26782m	0.10	ppbv	
26) Hexane	5.90	57	11840m	0.10	ppbv	
27) Carbon Disulfide	4.74	76	17564	0.11	ppbv #	17
28) Methyl tert-Butyl Ether	5.26	73	12789	0.09	ppbv #	91
29) Chloroform	5.97	83	26731	0.13	ppbv	84
30) Cyclohexane	7.41	84	20180m	0.23	ppbv	
31) cis-1,2-Dichloroethene	5.77	61	9405m	0.09	ppbv	
32) 1,1,1-Trichloroethane	6.75	97	23105	0.12	ppbv #	88
34) 2-Butanone	5.48	43	18400m	0.11	ppbv	
35) Carbon Tetrachloride	7.27	117	26619m	0.12	ppbv	
36) Benzene	7.14	78	17199	0.08	ppbv	96
37) 1,2-Dichloroethane	6.54	62	20822m	0.12	ppbv	
38) Trichloroethene	8.09	130	8729m	0.10	ppbv	
39) 1,2-Dichloropropane	7.86	63	9894m	0.12	ppbv	
41) Tetrahydrofuran	6.32	42	5409m	0.07	ppbv	
42) Bromodichloromethane	8.05	83	23400m	0.12	ppbv	
43) Methyl Methacrylate	8.28	69	6069m	0.08	ppbv	
44) 2,2,4-Trimethylpentane	8.13	57	27204m	0.07	ppbv	

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Manual Integrations
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Quant Time: Apr 20 09:08:17 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.56	75	7557m	0.07	ppbv	
46) cis-1,3-Dichloropropene	8.97	75	9480m	0.07	ppbv	
47) 1,1,2-Trichloroethane	9.76	97	11461m	0.11	ppbv	
48) Dibromochloromethane	10.60	129	15981	0.10	ppbv	98
49) Bromoform	13.34	173	12181m	0.10	ppbv	
50) 4-Methyl-2-Pentanone	9.06	43	14083m	0.07	ppbv	
51) 2-Hexanone	10.46	43	11130m	0.06	ppbv	
52) Tetrachloroethene	11.52	164	8403m	0.10	ppbv	
53) Toluene	10.09	91	14062m	0.06	ppbv	
54) 1,2-Dibromoethane	10.90	107	12532m	0.09	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.42	131	8255	0.07	ppbv #	1
57) Chlorobenzene	12.44	112	26752m	0.13	ppbv	
58) Ethyl Benzene	13.01	91	22265m	0.06	ppbv	
59) m/p-Xylene	13.30	91	33644m	0.11	ppbv	
60) o-Xylene	14.00	91	17463m	0.06	ppbv	
61) Styrene	13.83	104	3819m	0.07	ppbv	
62) Isopropylbenzene	14.98	105	28764m	0.07	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.98	83	26526m	0.12	ppbv	
64) n-propylbenzene	15.88	120	5058m	0.05	ppbv	
65) tert-Butylbenzene	17.05	119	17577m	0.05	ppbv	
66) Benzyl Chloride	17.30	91	3741m	0.13	ppbv	
67) sec-Butylbenzene	17.61	105	30314m	0.06	ppbv	
69) p-Isopropyltoluene	17.97	119	19010m	0.05	ppbv	
70) n-Butylbenzene	18.85	91	22416m	0.06	ppbv	
71) 2-Chlorotoluene	15.76	91	18614m	0.07	ppbv	
72) 4-Ethyltoluene	16.14	105	17170m	0.06	ppbv	
73) 1,3,5-Trimethylbenzene	16.31	105	14925m	0.05	ppbv	
74) 1,2,4-Trimethylbenzene	17.08	105	16318m	0.05	ppbv	
75) 1,3-Dichlorobenzene	17.32	146	23454m	0.12	ppbv	
76) 1,4-Dichlorobenzene	17.45	146	16425m	0.09	ppbv	
77) 1,2-Dichlorobenzene	18.14	146	17056m	0.09	ppbv	
78) Hexachloro-1,3-Butadiene	23.68	225	11593m	0.16	ppbv	
79) Naphthalene	22.59	128	8779m	0.05	ppbv	
81) 1,2,4-Trichlorobenzene	22.31	180	6861m	0.07	ppbv	

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

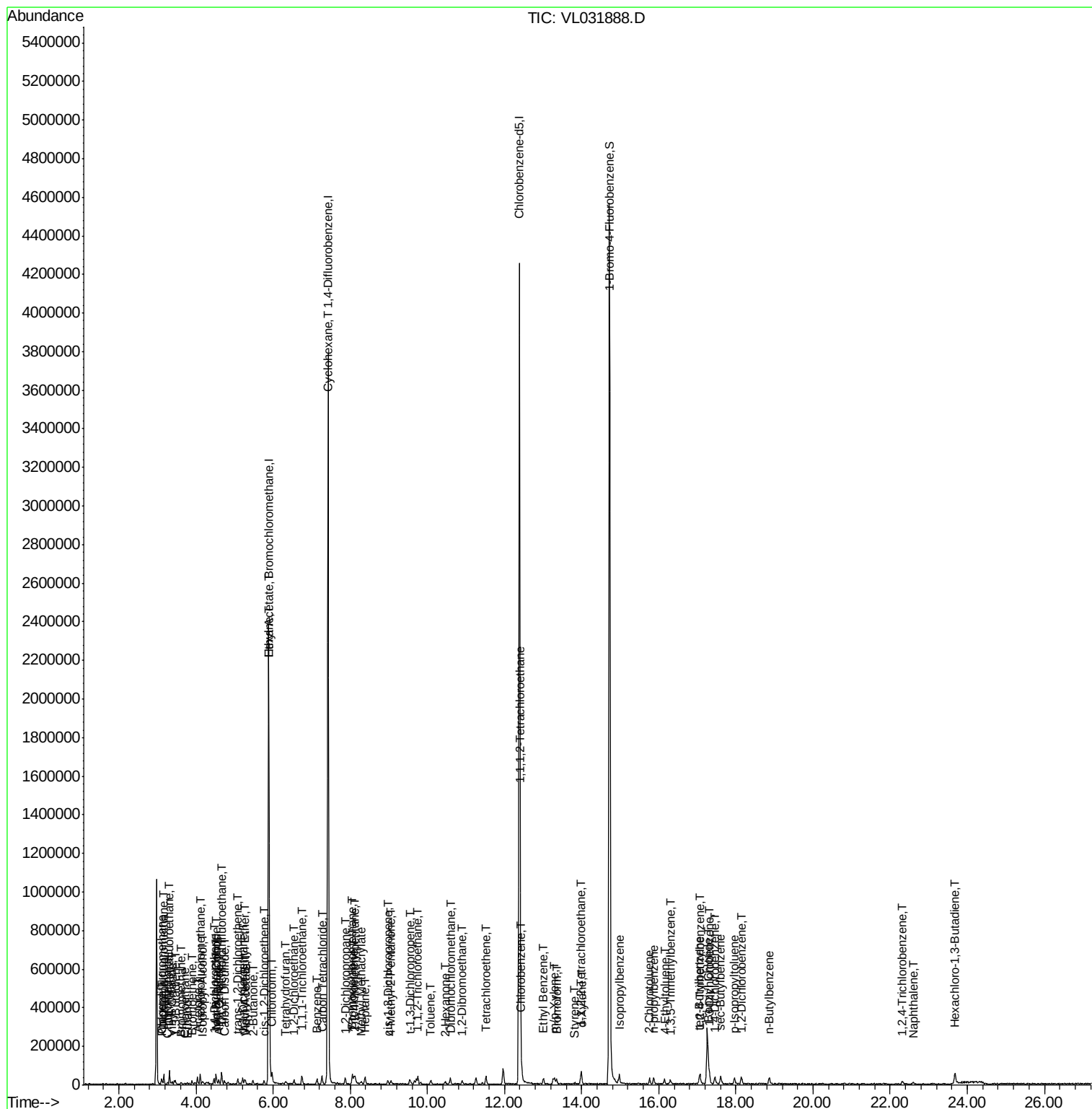
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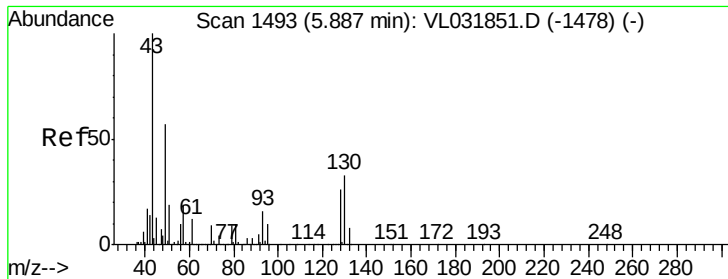
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

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Quant Time: Apr 20 09:08:17 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Apr
QLast Update : Fri Apr 13 16:50:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

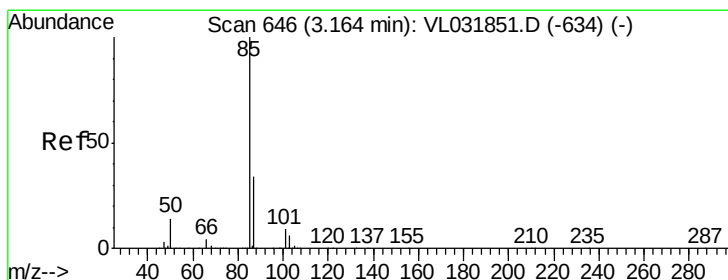
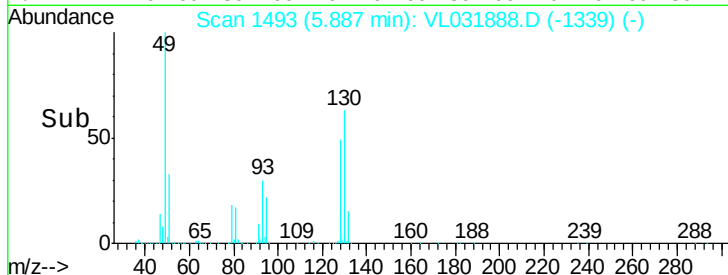
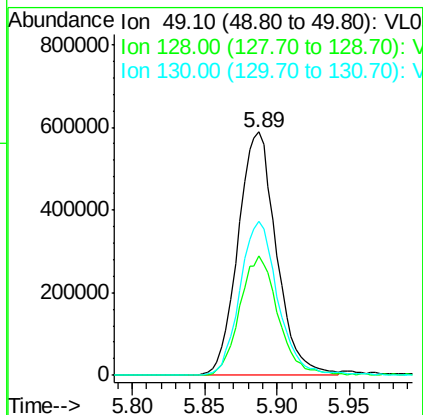
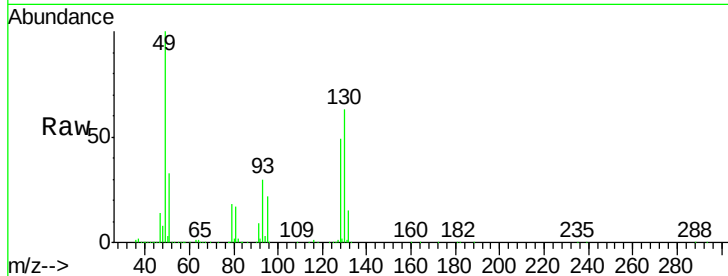
MDL-AIR-03-QT2-2018

Tot Ion: 49 Resp: 1084151

Ion	Ratio	Lower	Upper
49	100		
128	49.6	23.9	71.7
130	63.7	30.9	92.7

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#2

Dichlorodifluoromethane

Concen: 0.15 ppbv

RT: 3.16 min Scan# 645

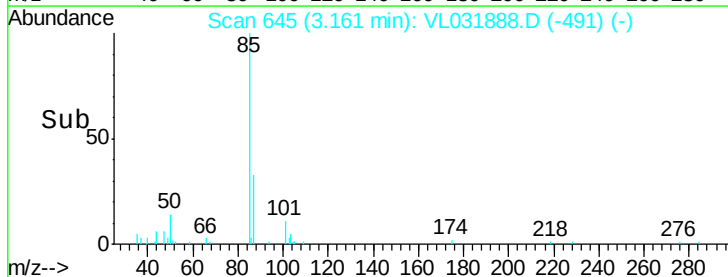
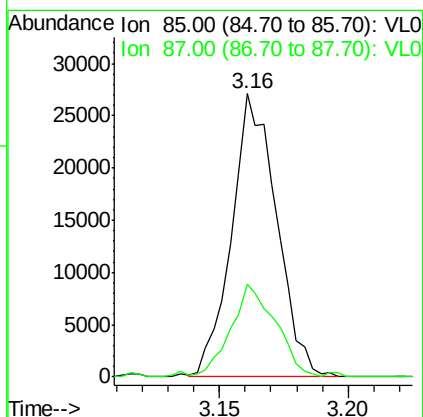
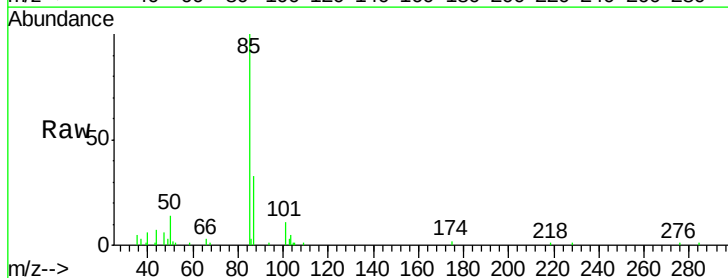
Delta R.T. -0.00 min

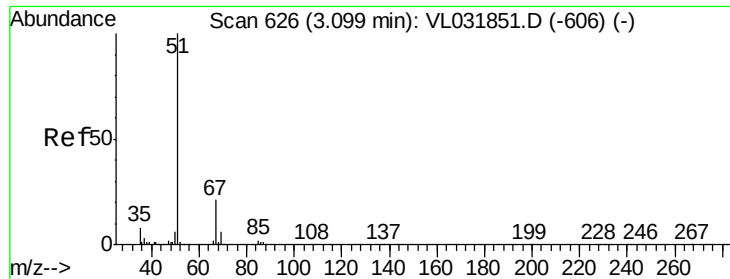
Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion: 85 Resp: 32912

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.9	38.9





#3

Chlorodifluoromethane

Concen: 0.15 ppbv

RT: 3.10 min Scan# 627

Delta R.T. 0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

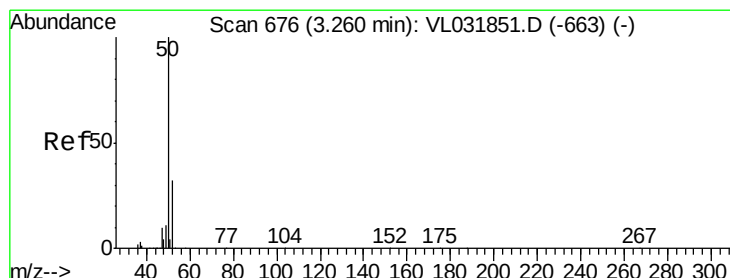
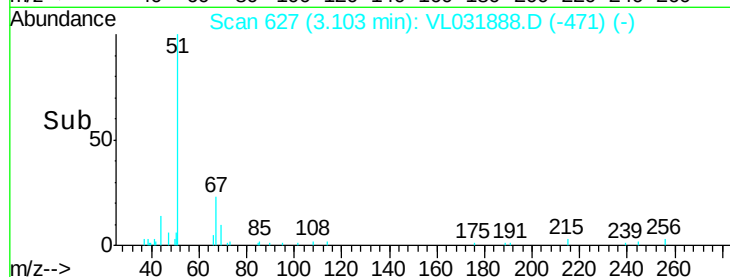
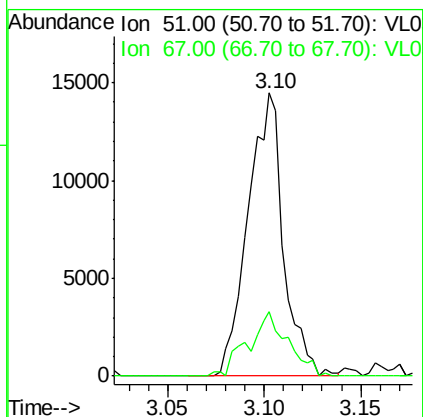
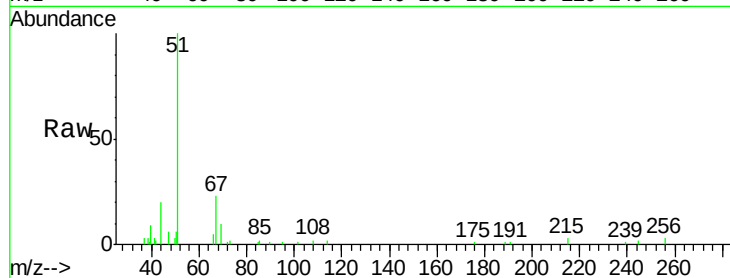
ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion	Ion	Ratio	Lower	Upper
51	100			
67	25.6	17.5	26.3	

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#4

Chloromethane

Concen: 0.15 ppbv

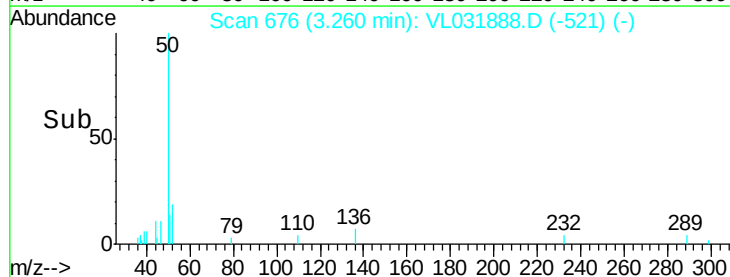
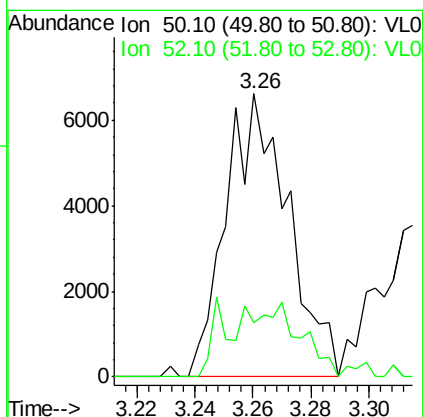
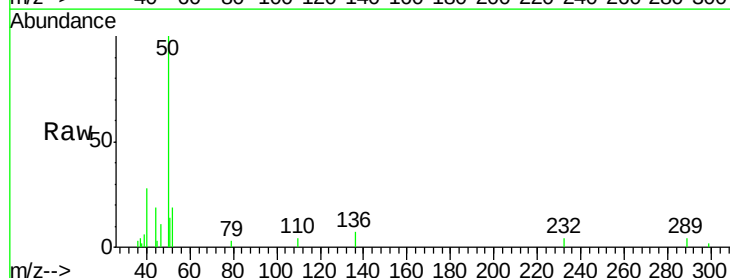
RT: 3.26 min Scan# 676

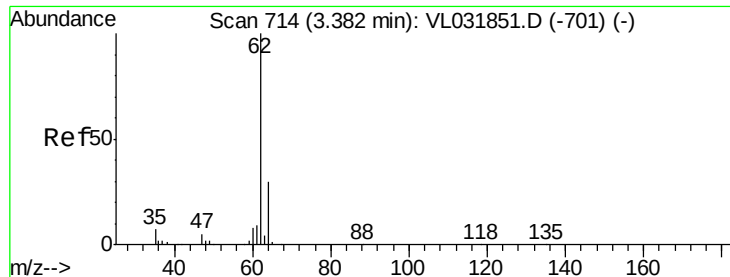
Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion	Ion	Ratio	Lower	Upper
50	100			
52	19.2	28.1	42.1	#





#5

Vinyl Chloride

Concen: 0.13 ppbv m

RT: 3.38 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion: 62 Resp: 9274

Ion Ratio Lower Upper

62 100

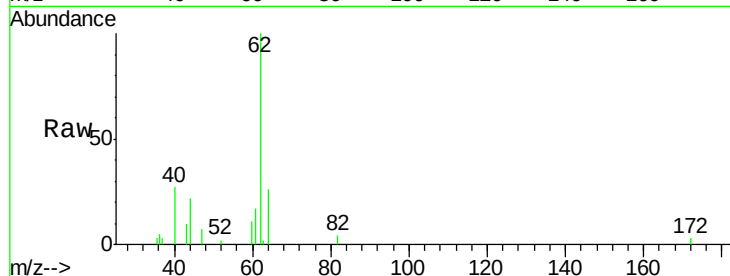
64 26.3 25.9 38.9

Manual Integrations

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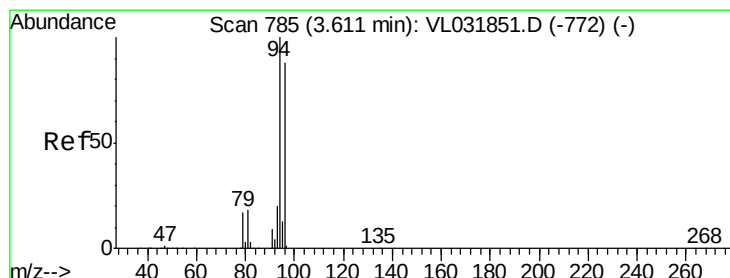
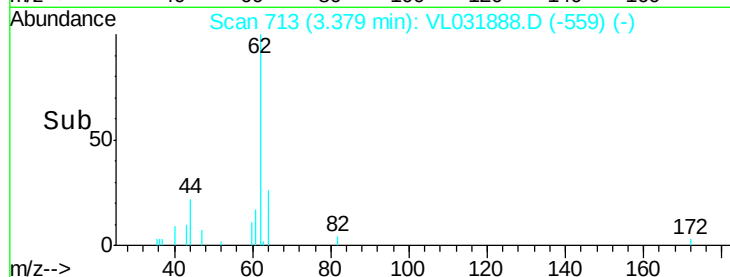
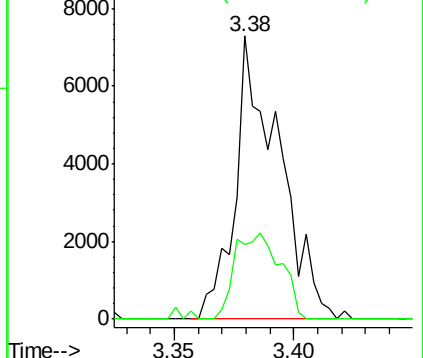
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.14 ppbv m

RT: 3.61 min Scan# 786

Delta R.T. 0.00 min

Lab File: VL031888.D

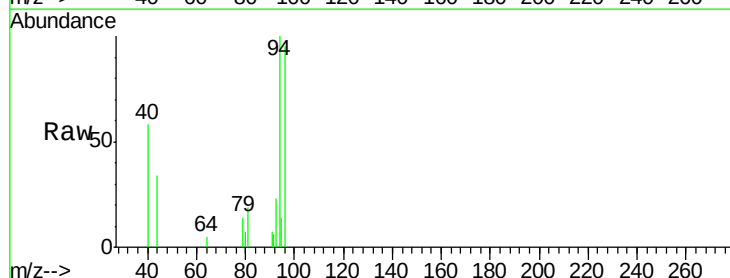
Acq: 19 Apr 2018 21:35

Tgt Ion: 94 Resp: 6432

Ion Ratio Lower Upper

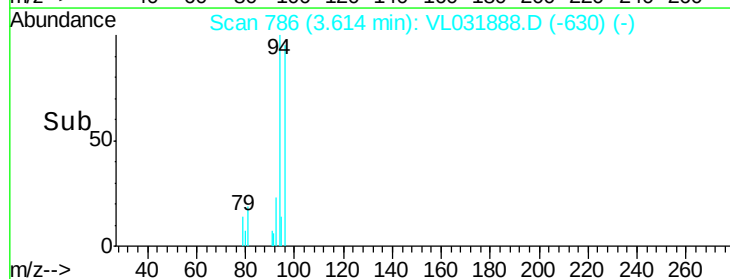
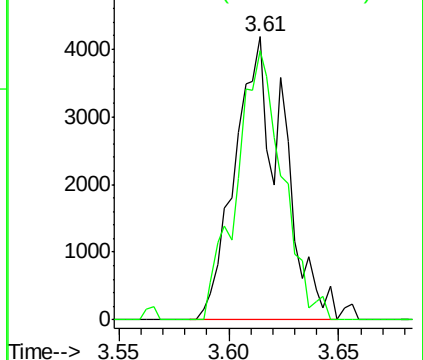
94 100

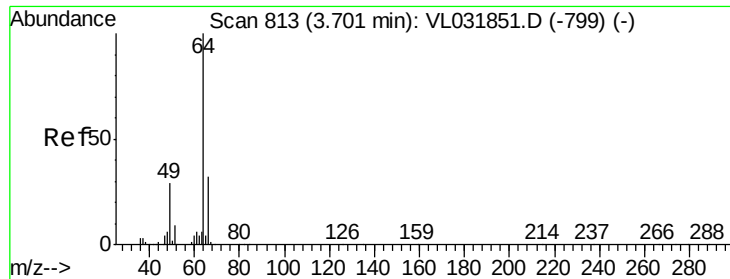
96 95.1 73.8 110.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.15 ppbv m

RT: 3.70 min Scan# 813

Delta R.T. 0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion: 64 Resp: 4383

Ion Ratio Lower Upper

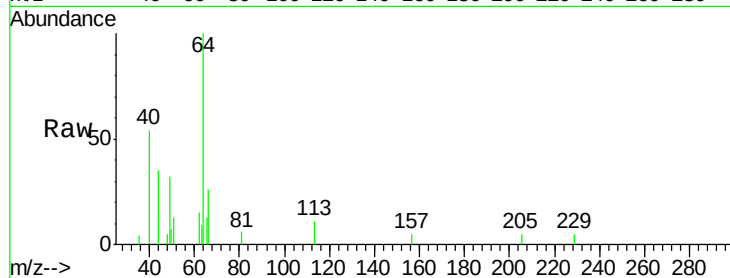
64 100

66 26.4 23.4 35.0

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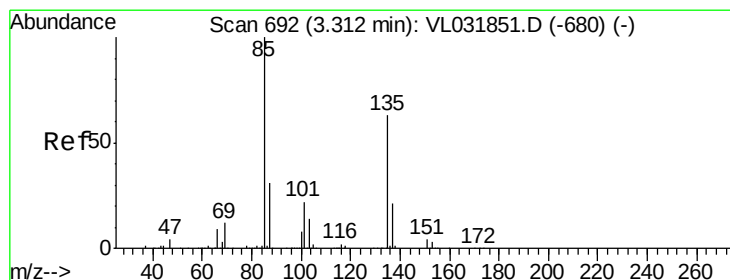
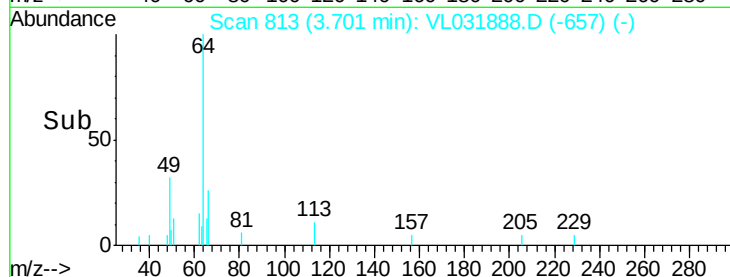
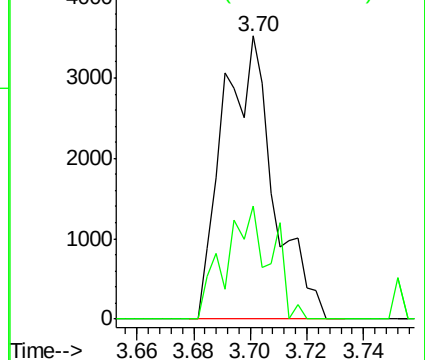
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.14 ppbv

RT: 3.31 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL031888.D

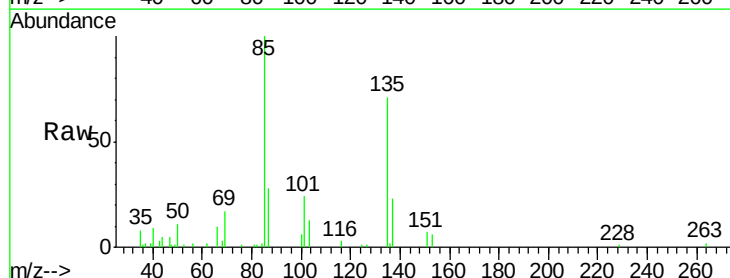
Acq: 19 Apr 2018 21:35

Tgt Ion: 85 Resp: 25975

Ion Ratio Lower Upper

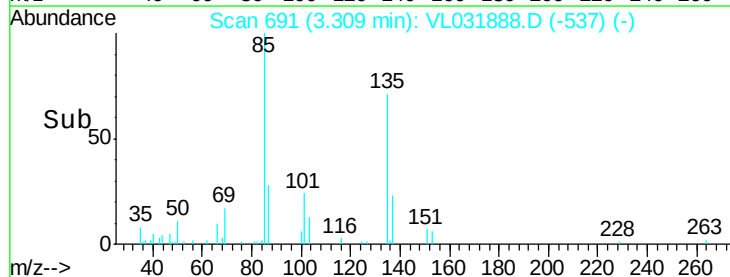
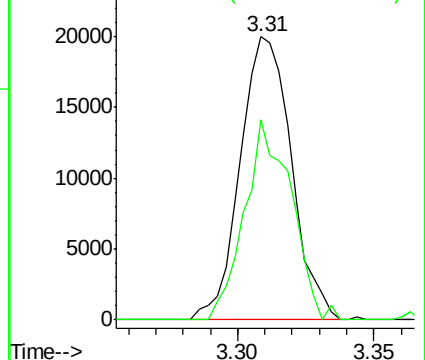
85 100

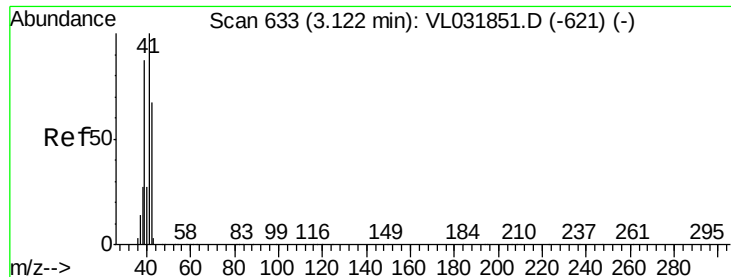
135 64.4 52.7 79.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.11 ppbv

RT: 3.13 min Scan# 634

Delta R.T. 0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion: 41 Resp: 4929

Ion Ratio Lower Upper

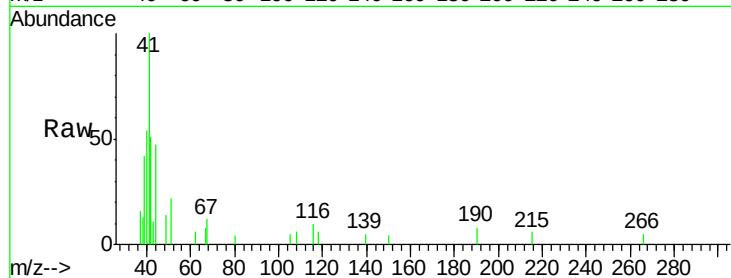
41 100

42 62.0 55.0 82.4

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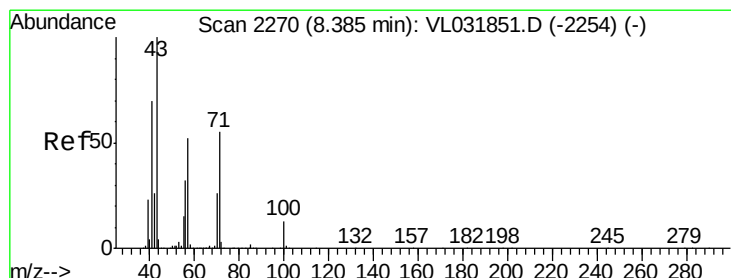
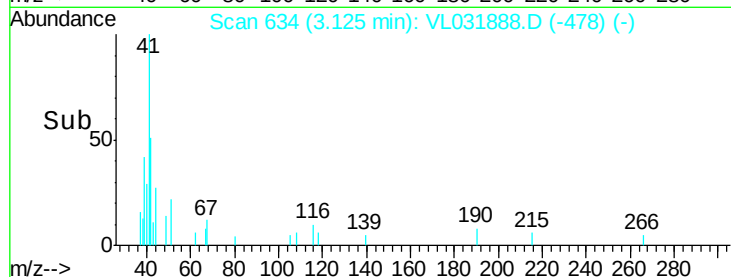
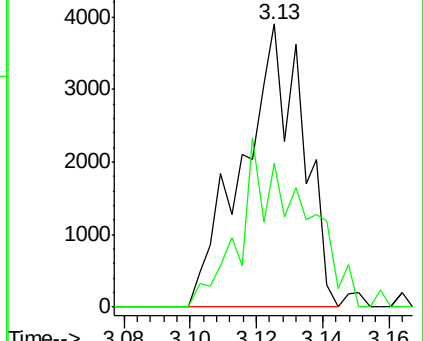
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.07 ppbv m

RT: 8.39 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VL031888.D

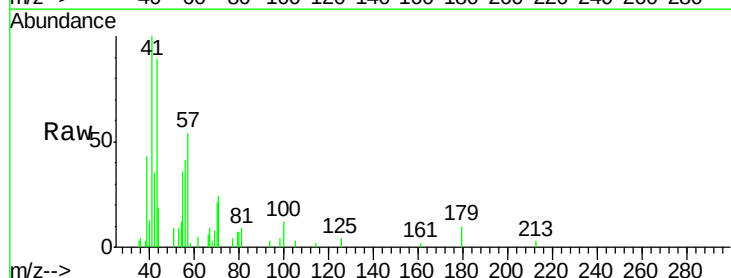
Acq: 19 Apr 2018 21:35

Tgt Ion: 43 Resp: 10533

Ion Ratio Lower Upper

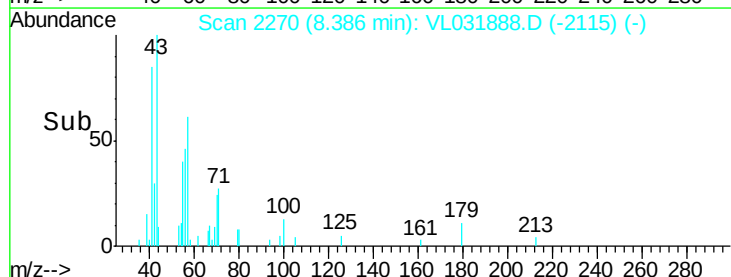
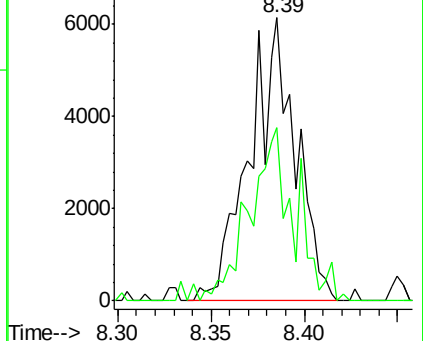
43 100

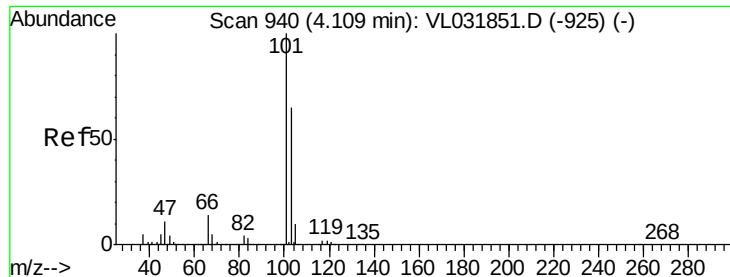
57 61.3 41.5 62.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





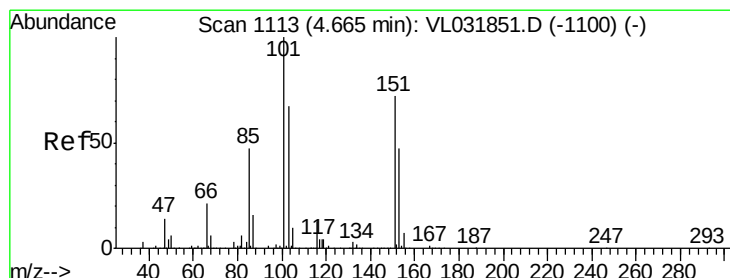
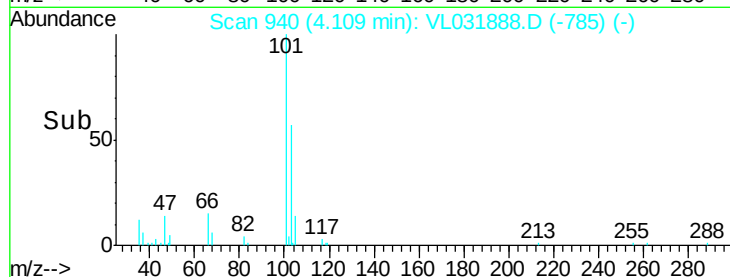
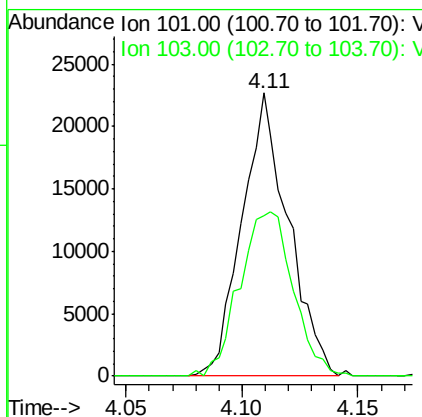
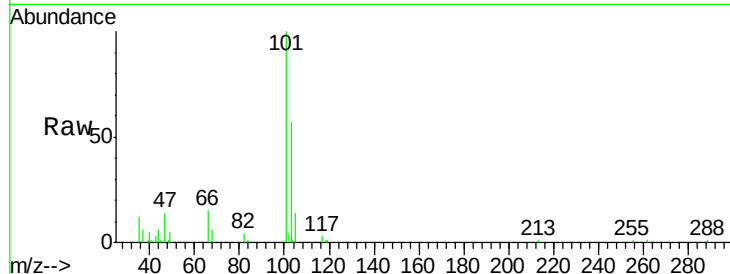
#11
 Trichlorofluoromethane
 Concen: 0.14 ppbv
 RT: 4.11 min Scan# 940
 Delta R.T. -0.00 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.9	51.8	77.8

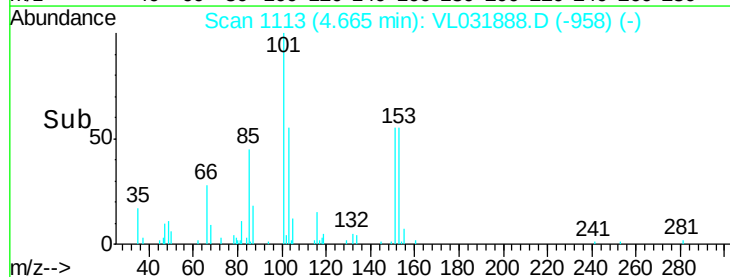
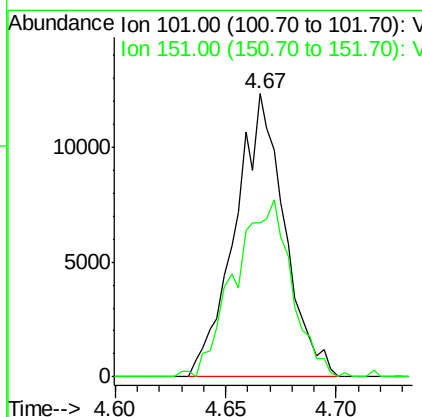
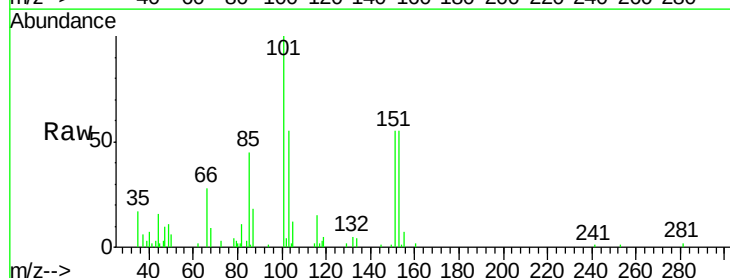
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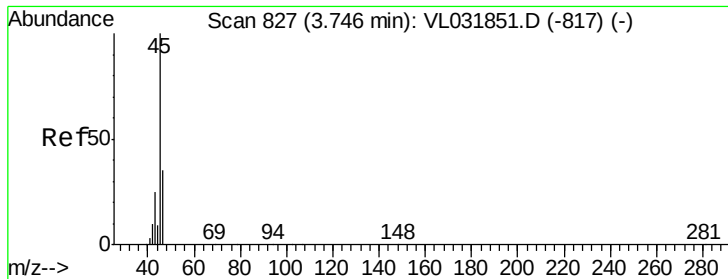
sam
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.14 ppbv
 RT: 4.67 min Scan# 1113
 Delta R.T. -0.00 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
101	100		
151	72.0	57.0	85.6





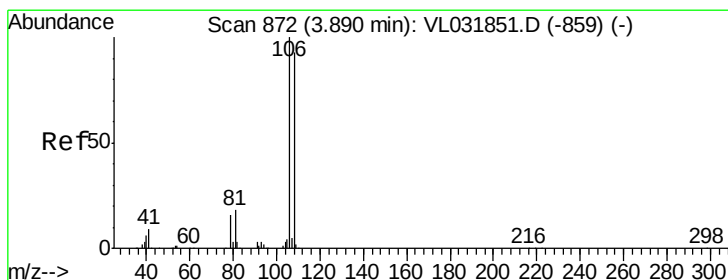
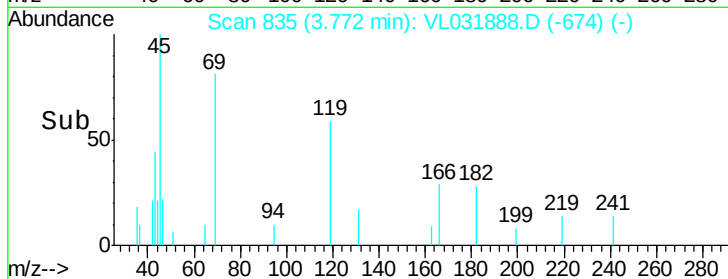
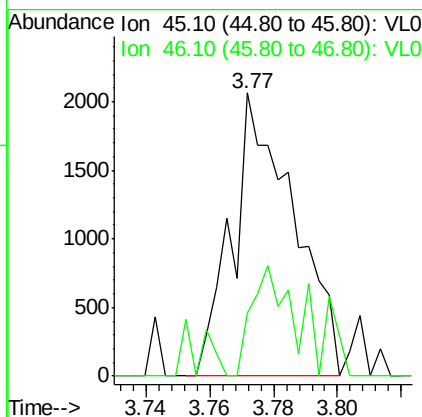
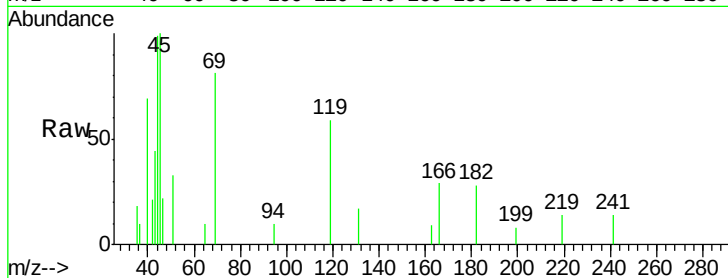
#13
Ethanol
Concen: 0.19 ppbv m
RT: 3.77 min Scan# 835
Delta R.T. 0.02 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

Tot Ion: 45 Resp: 2763
Ion Ratio Lower Upper
45 100
46 0.0 14.6 58.6#

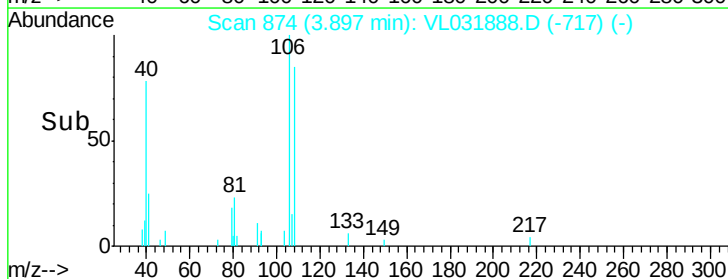
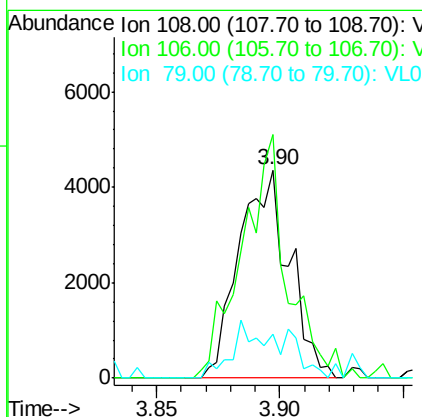
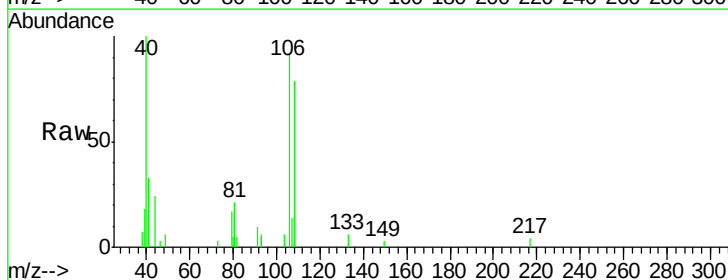
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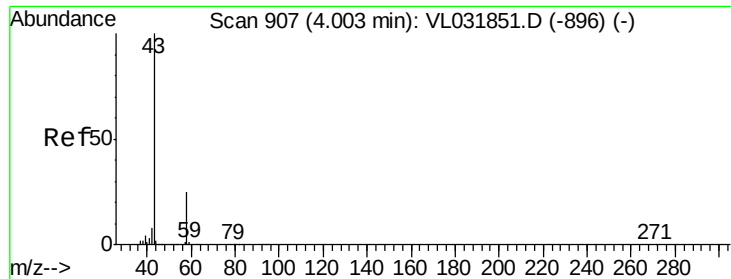
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#14
Bromoethene
Concen: 0.11 ppbv m
RT: 3.90 min Scan# 874
Delta R.T. 0.01 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Tgt Ion: 108 Resp: 6153
Ion Ratio Lower Upper
108 100
106 0.0 86.6 130.0#
79 27.3 15.5 23.3#





#15

Acetone

Concen: 0.20 ppbv

RT: 4.04 min Scan# 917

Delta R.T. 0.03 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion: 43 Resp: 33181

Ion Ratio Lower Upper

43 100

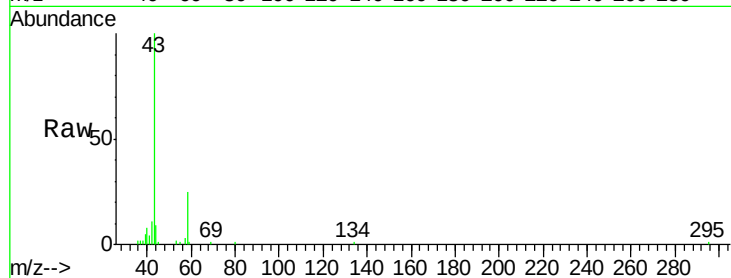
58 29.7 20.9 31.3

Manual Integrations

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sam

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.04

25000

20000

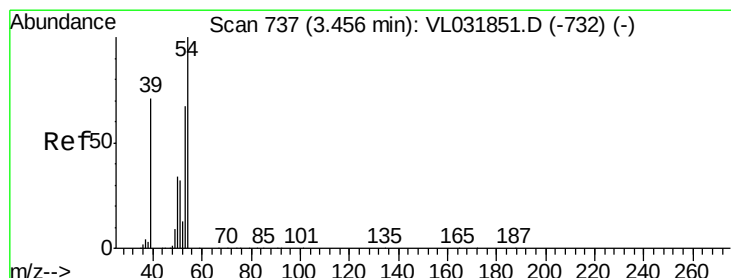
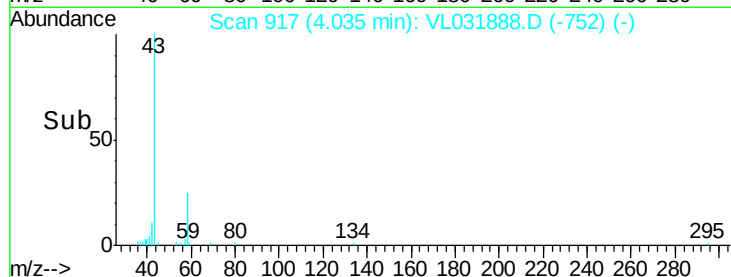
15000

10000

5000

0

Time-->



#16

1,3-Butadiene

Concen: 0.09 ppbv

RT: 3.46 min Scan# 738

Delta R.T. 0.00 min

Lab File: VL031888.D

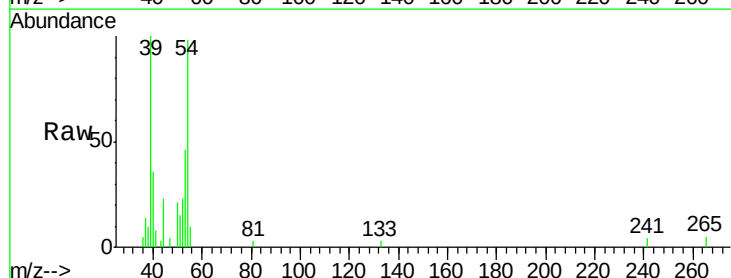
Acq: 19 Apr 2018 21:35

Tgt Ion: 39 Resp: 5653

Ion Ratio Lower Upper

39 100

54 118.3 63.3 94.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.46

6000

5000

4000

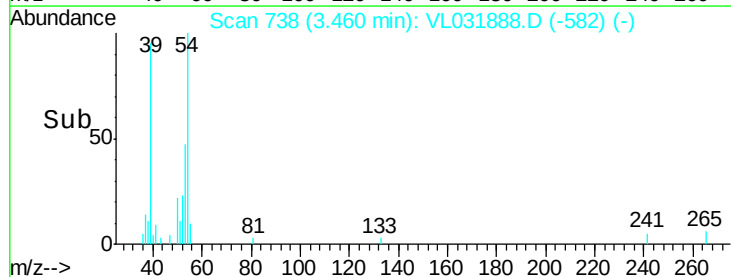
3000

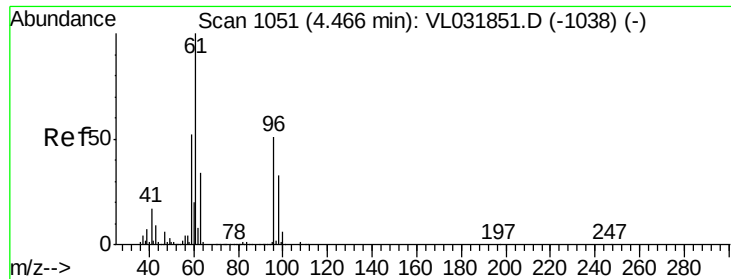
2000

1000

0

Time-->





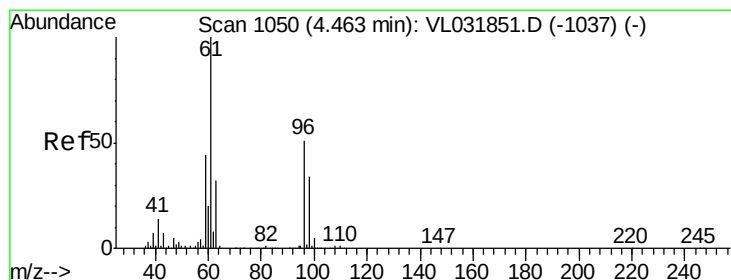
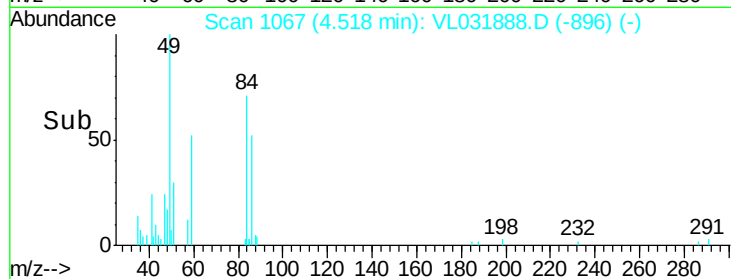
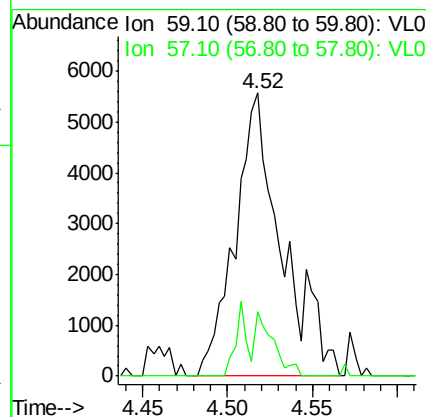
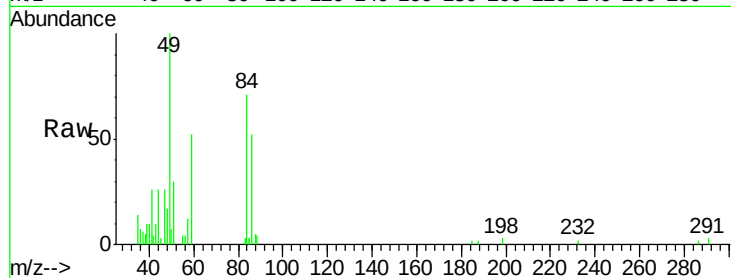
#17
 tert-Butyl alcohol
 Concen: 0.15 ppbv m
 RT: 4.52 min Scan# 1067
 Delta R.T. 0.05 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion: 59 Resp: 10658
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

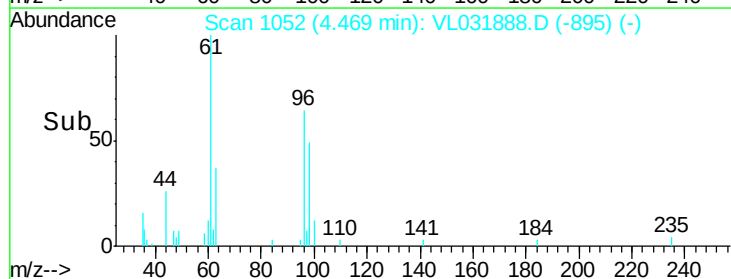
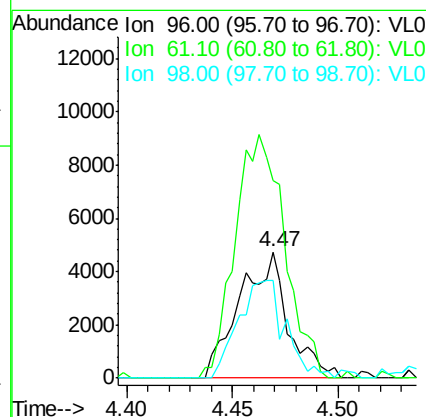
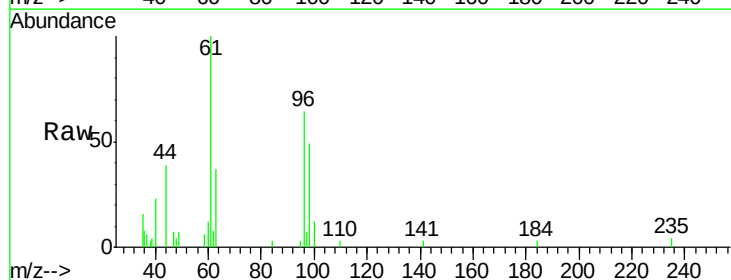
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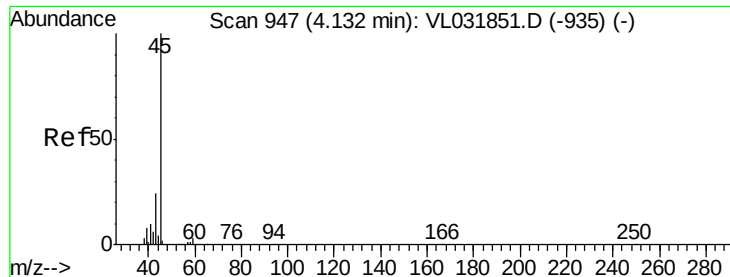
sam
 4/23/2018 12:50:11 PM



#18
 1,1-Dichloroethene
 Concen: 0.12 ppbv m
 RT: 4.47 min Scan# 1052
 Delta R.T. 0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion: 96 Resp: 7583
 Ion Ratio Lower Upper
 96 100
 61 156.6 161.0 241.6#
 98 77.1 52.7 79.1





#19

Isopropyl Alcohol

Concen: 0.12 ppbv m

RT: 4.16 min Scan# 957

Delta R.T. 0.04 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion: 45 Resp: 11247

Ion Ratio Lower Upper

45 100

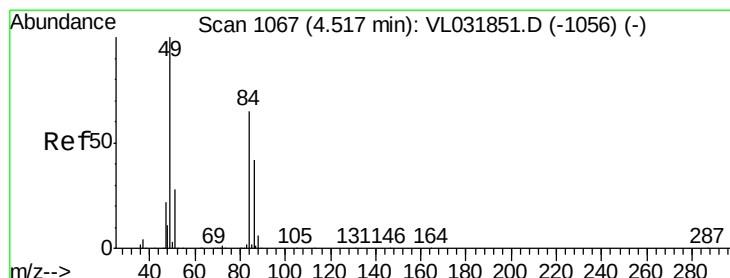
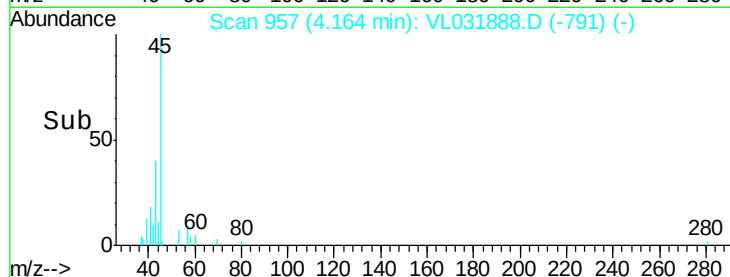
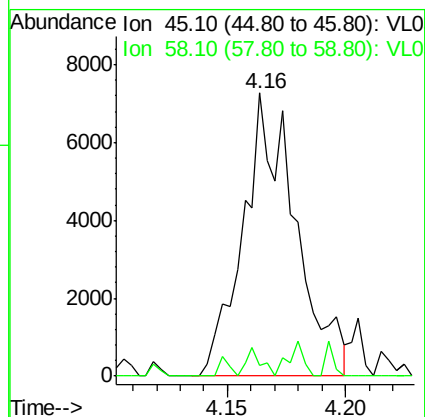
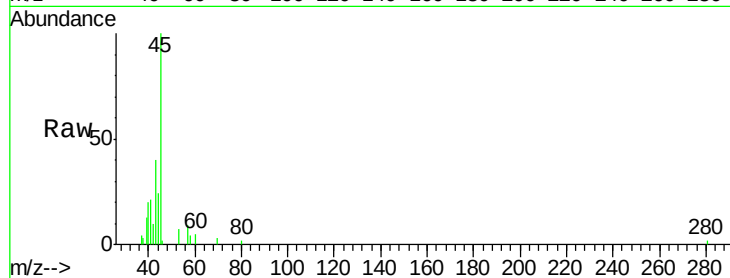
58 0.0 1.7 2.5#

Manual Integrations

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sam

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#20

Methylene Chloride

Concen: 0.23 ppbv m

RT: 4.52 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion: 84 Resp: 13726

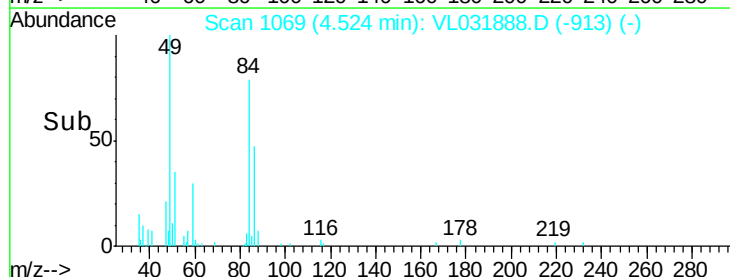
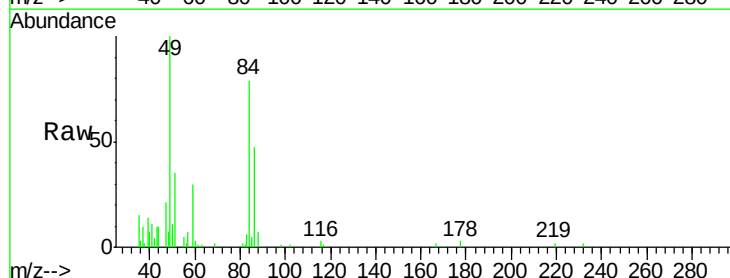
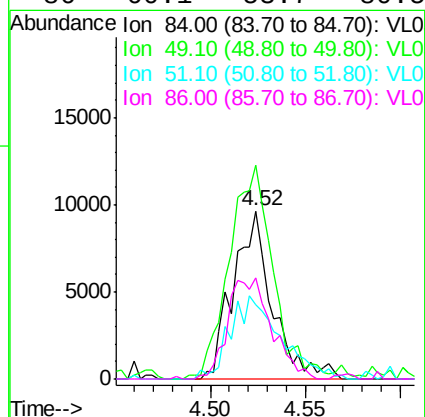
Ion Ratio Lower Upper

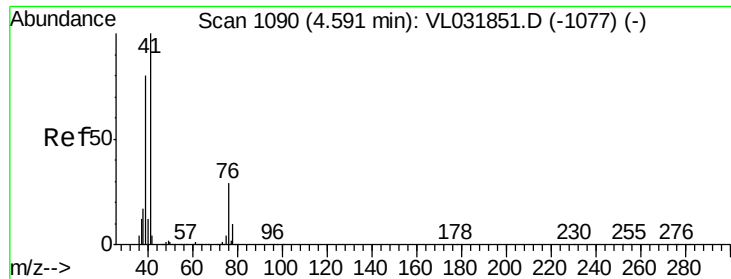
84 100

49 127.0 125.6 188.4

51 44.5 36.4 54.6

86 60.1 53.7 80.5





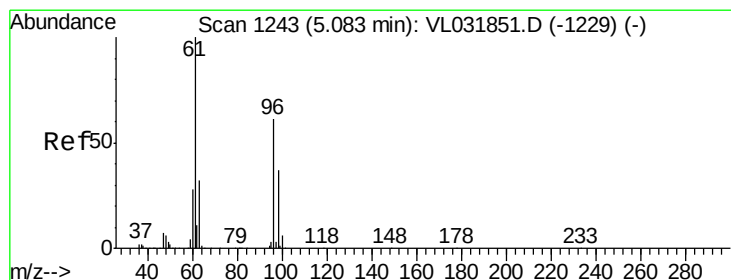
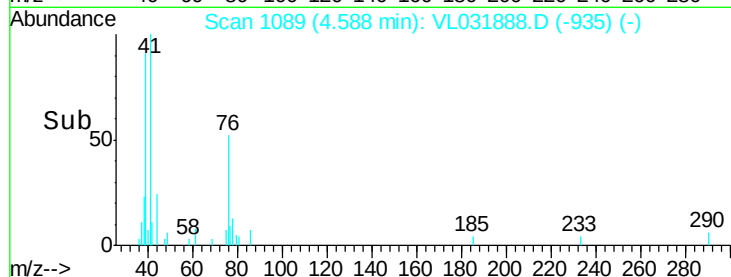
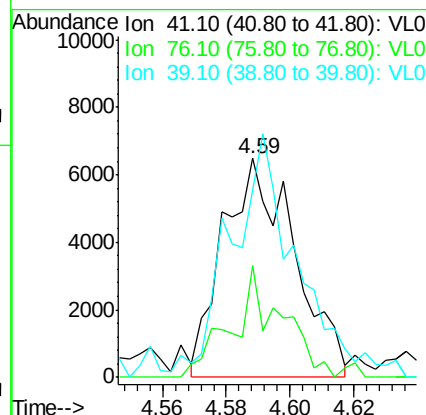
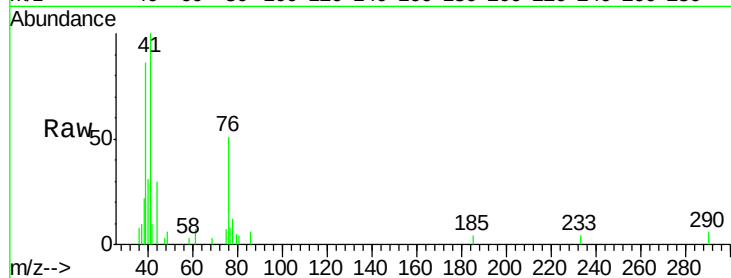
#21
Allvl Chloride
Concen: 0.11 ppbv m
RT: 4.59 min Scan# 1089
Delta R.T. -0.00 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
41	100		
76	36.9	23.4	35.2#
39	109.5	67.6	101.4#

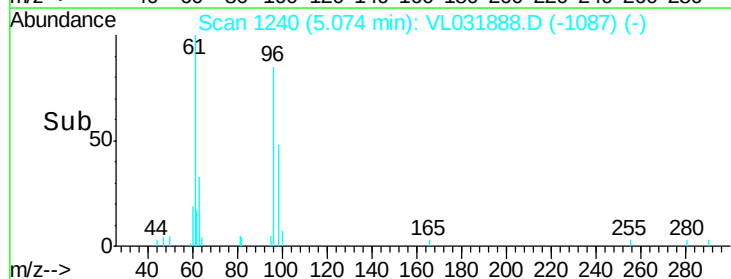
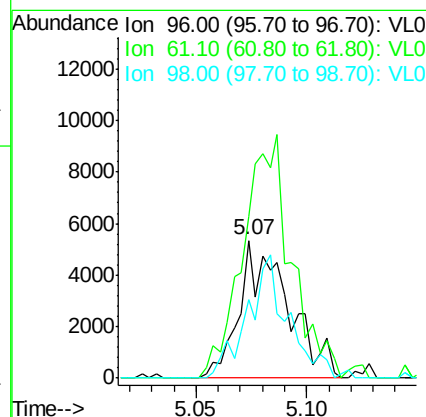
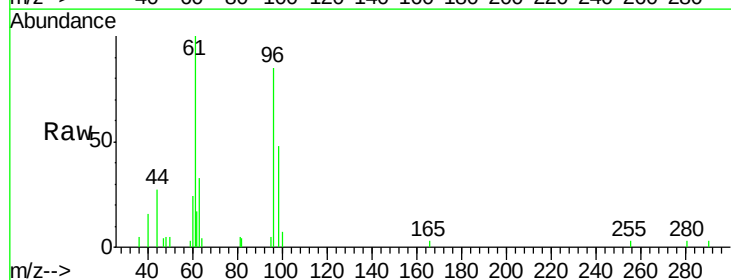
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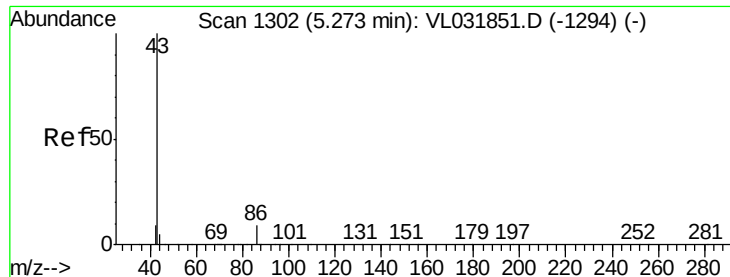
sam
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#22
trans-1,2-Dichloroethene
Concen: 0.13 ppbv m
RT: 5.07 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	117.4	131.1	196.7#
98	56.7	47.6	71.4





#23

Vinyl Acetate

Concen: 0.09 ppbv m

RT: 5.29 min Scan# 1306

Delta R.T. 0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

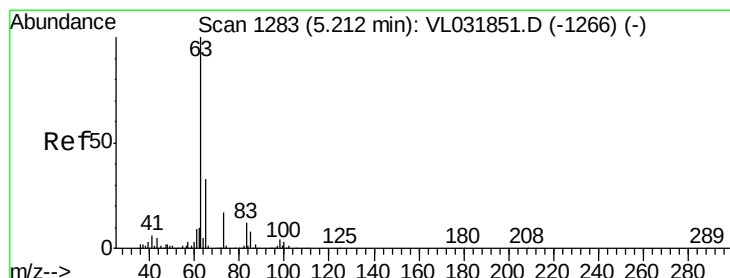
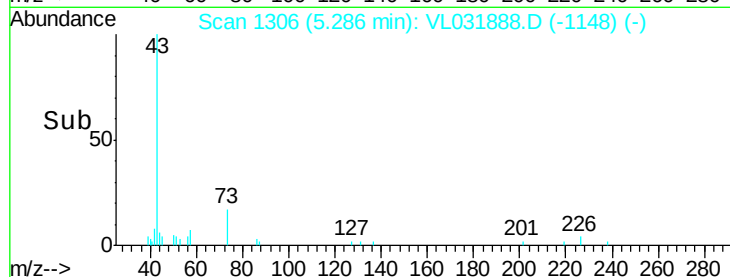
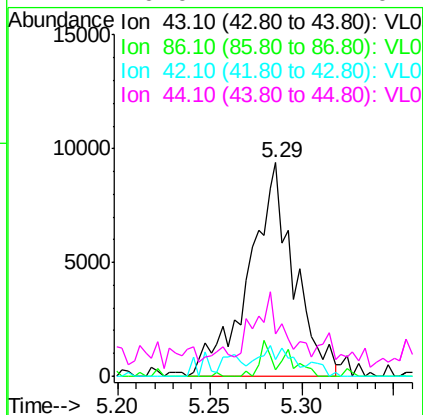
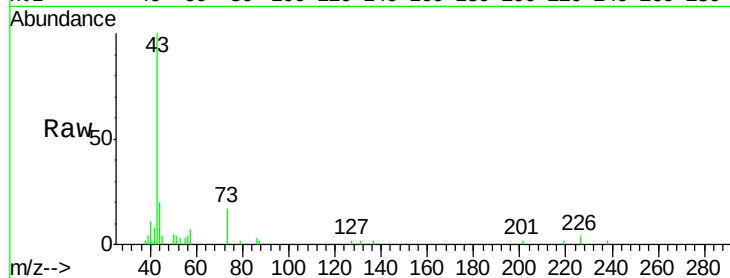
ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion	43	Resp	15847
Ion Ratio	Lower	Upper	
43	100		
86	3.2	5.8	8.8#
42	8.0	8.5	12.7#
44	20.0	4.2	6.4#

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.11 ppbv

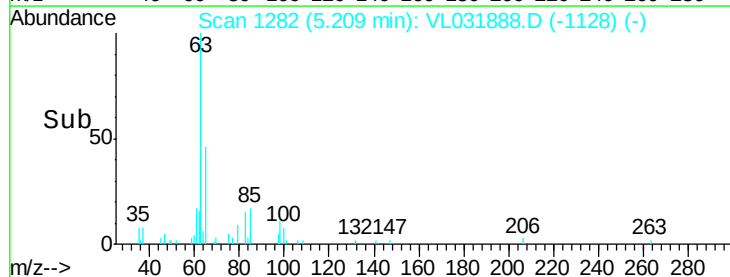
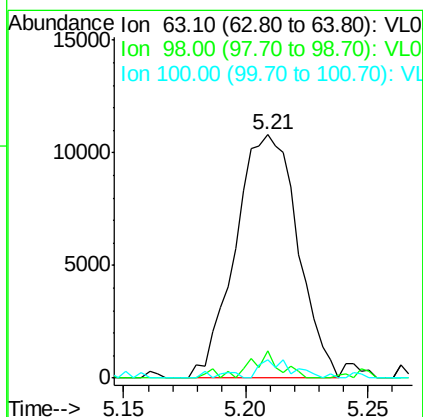
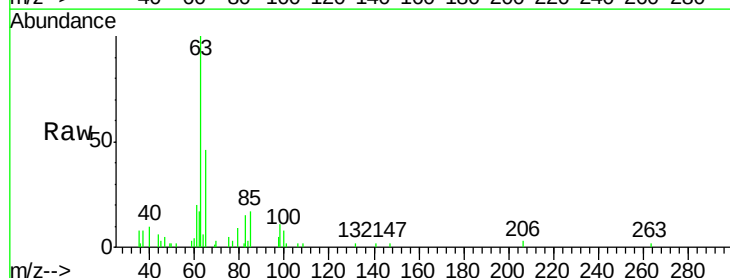
RT: 5.21 min Scan# 1282

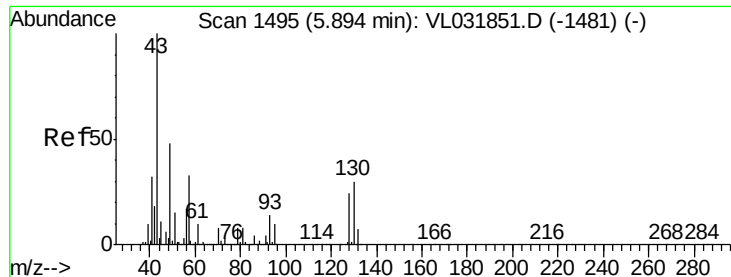
Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion	63	Resp	19108
Ion Ratio	Lower	Upper	
63	100		
98	11.1	2.4	7.2#
100	9.5	1.5	4.4#





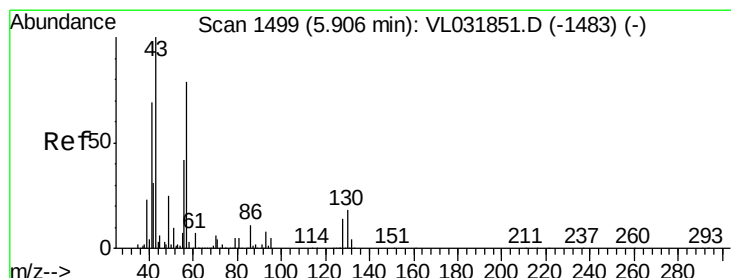
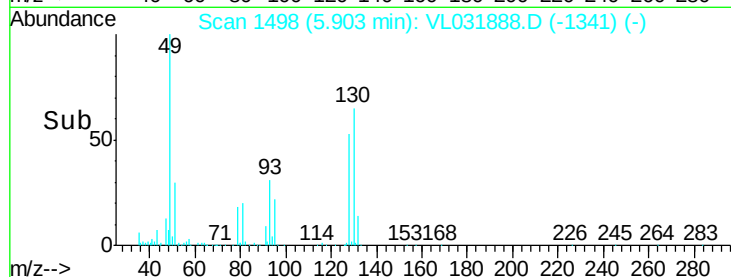
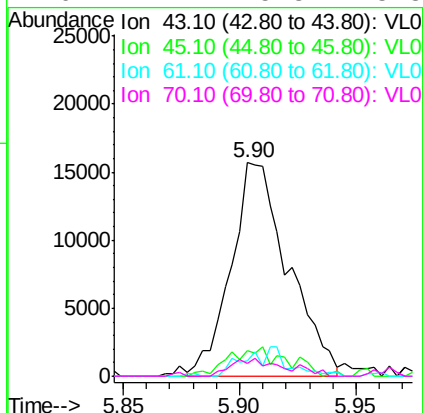
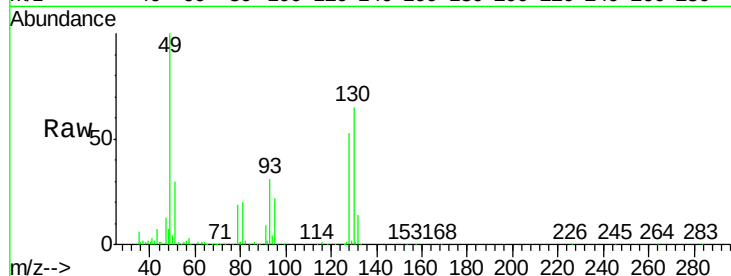
#25
Ethyl Acetate
Concen: 0.10 ppbv m
RT: 5.90 min Scan# 1498
Delta R.T. 0.01 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
43	100		
45	13.8	7.8	11.8#
61	10.9	7.2	10.8#
70	7.7	5.8	8.8

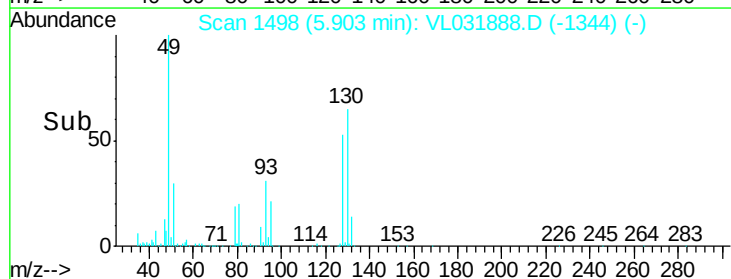
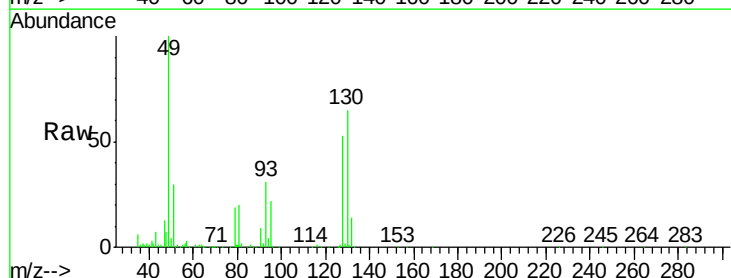
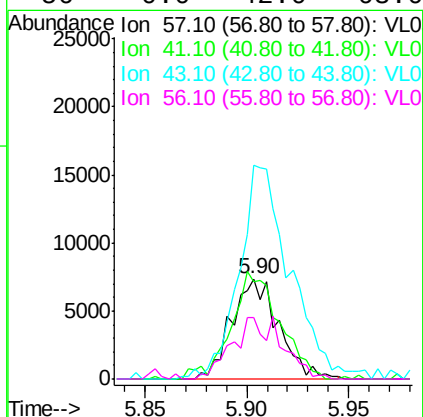
Manual Integrations
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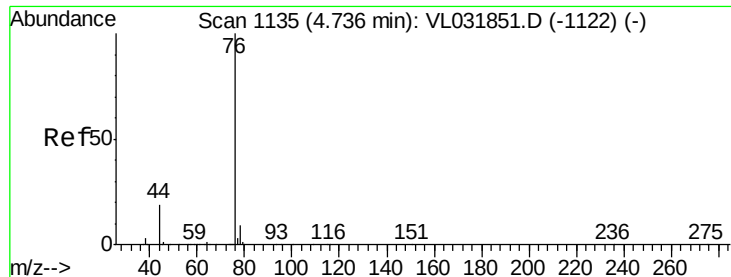
sam
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#26
Hexane
Concen: 0.10 ppbv m
RT: 5.90 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
57	100		
41	110.6	72.0	108.0#
43	239.7	169.8	254.8
56	0.0	42.0	63.0#





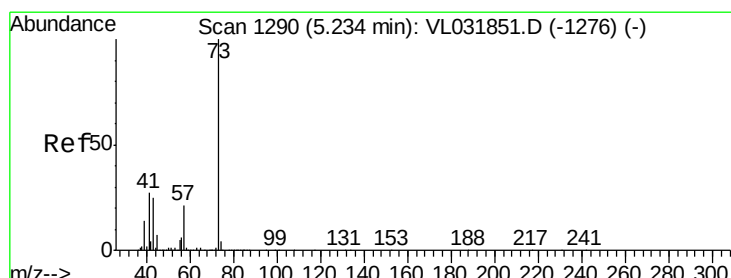
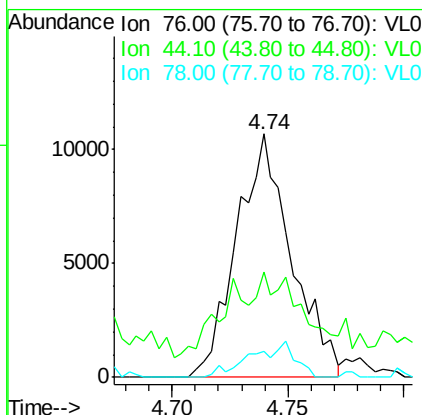
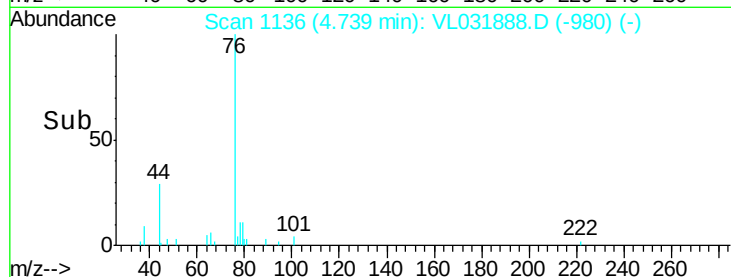
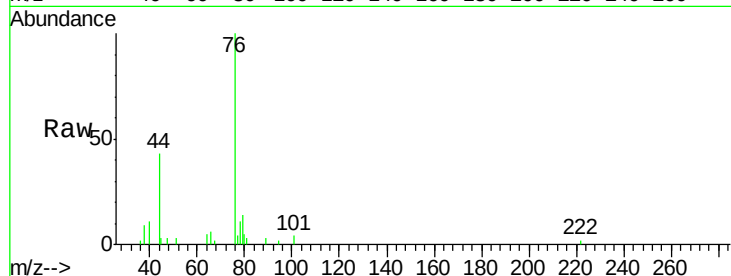
#27
Carbon Disulfide
Concen: 0.11 ppbv
RT: 4.74 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
76	100		
44	74.3	15.6	23.4#
78	12.3	7.6	11.4#

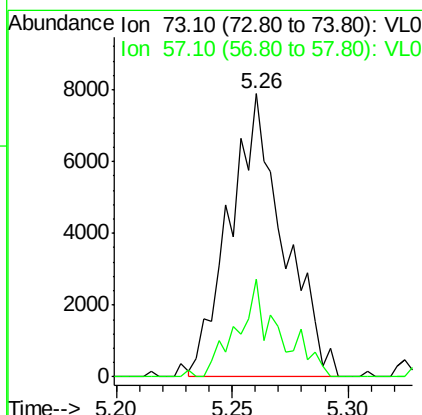
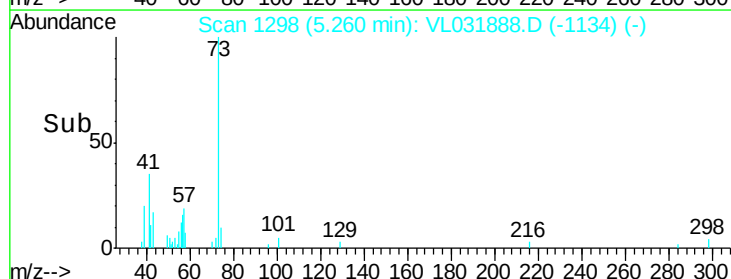
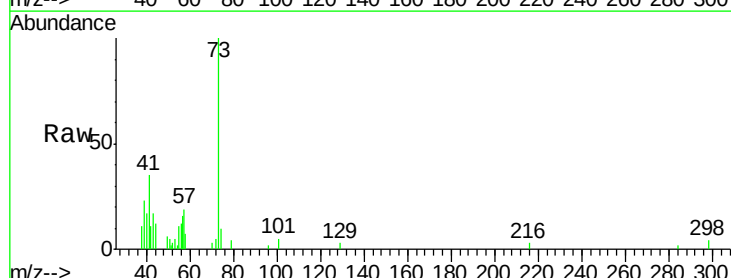
Manual Integrations
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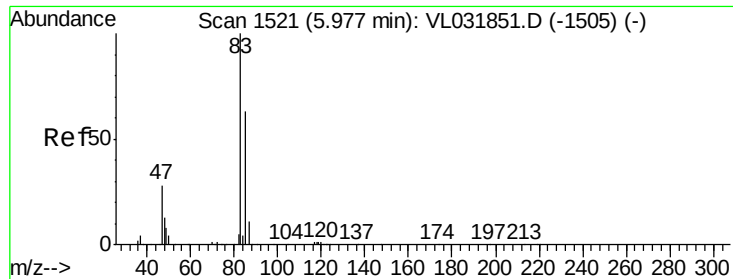
sam
4/23/2018 12:50:11 PM



#28
Methyl tert-Butyl Ether
Concen: 0.09 ppbv
RT: 5.26 min Scan# 1298
Delta R.T. 0.03 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
73	100		
57	26.5	17.6	26.4#





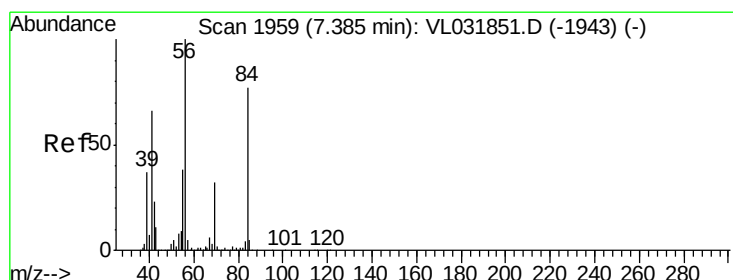
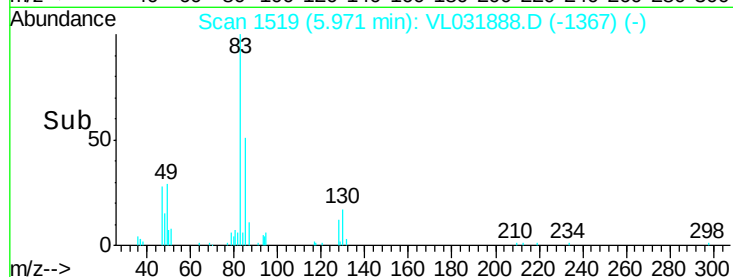
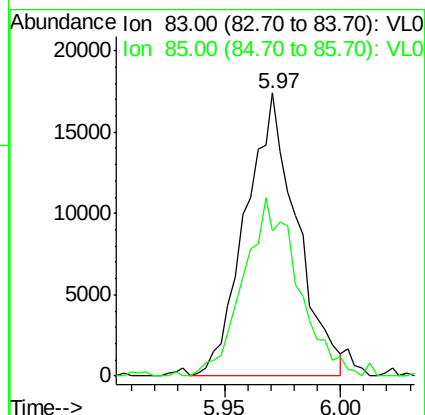
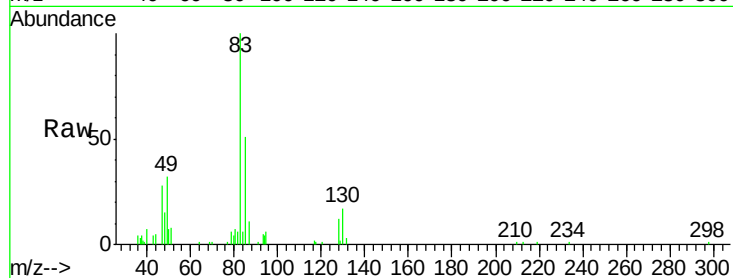
#29
Chloroform
Concen: 0.13 ppbv
RT: 5.97 min Scan# 1519
Delta R.T. -0.01 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

Tot Ion: 83 Resp: 26731
Ion Ratio Lower Upper
83 100
85 51.4 51.4 77.0

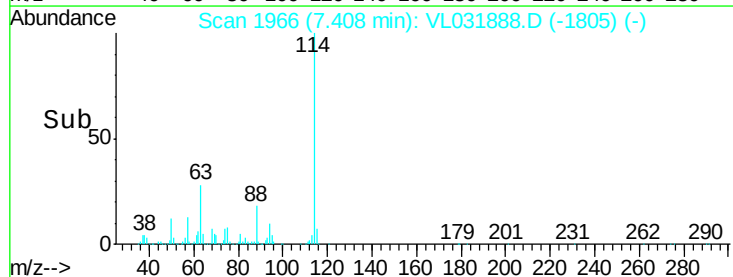
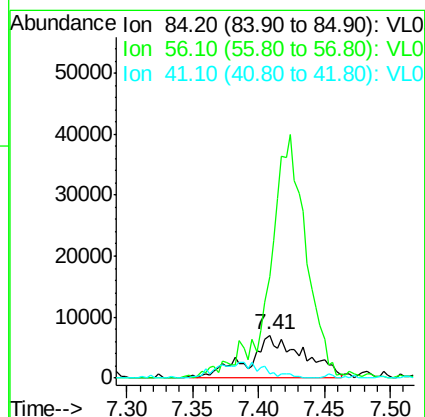
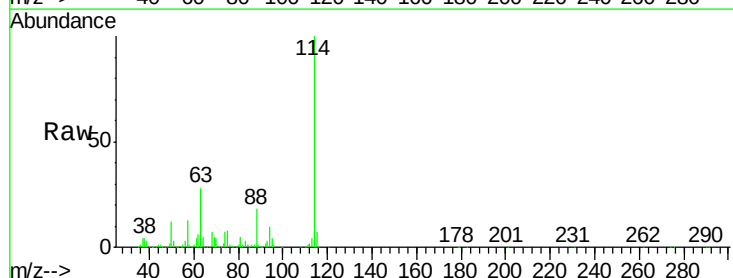
Manual Integrations
APPROVED

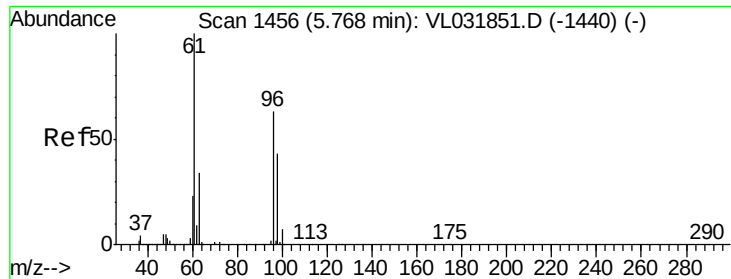
sam
4/23/2018 12:50:11 PM



#30
Cyclohexane
Concen: 0.23 ppbv m
RT: 7.41 min Scan# 1966
Delta R.T. 0.02 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Tgt Ion: 84 Resp: 20180
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 31.8 68.2 102.2#





#31

cis-1,2-Dichloroethene

Concen: 0.09 ppbv m

RT: 5.77 min Scan# 1456

Delta R.T. 0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

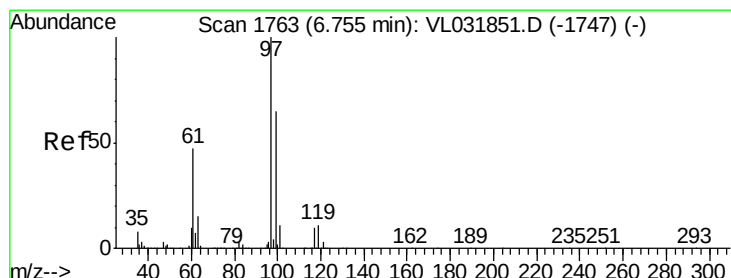
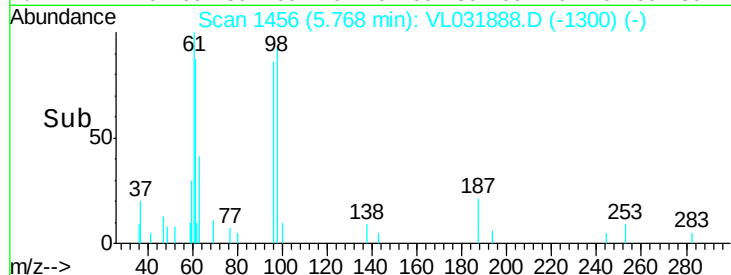
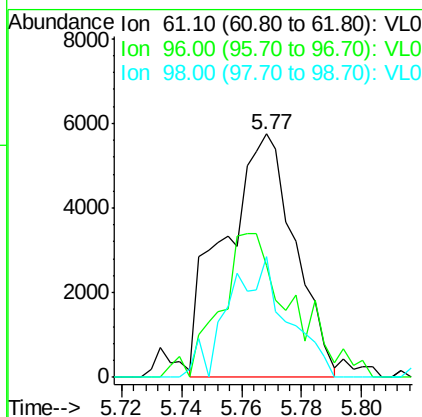
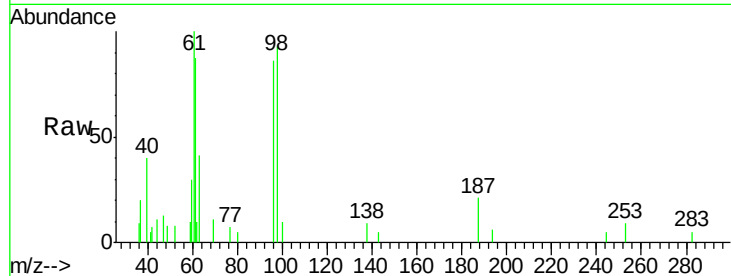
ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
61	100		
96	86.1	47.6	71.4#
98	92.6	30.3	45.5#

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 0.12 ppbv

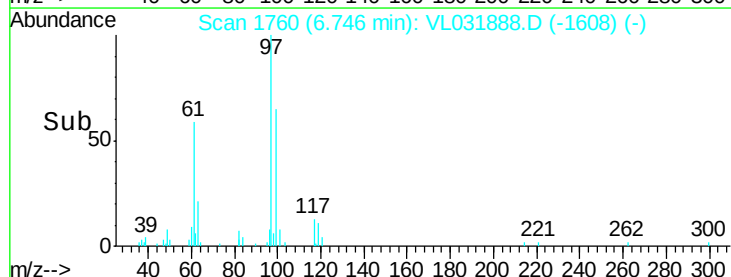
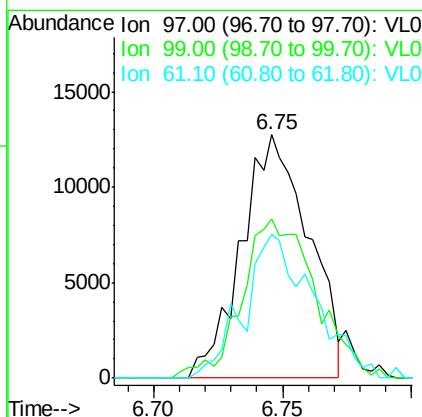
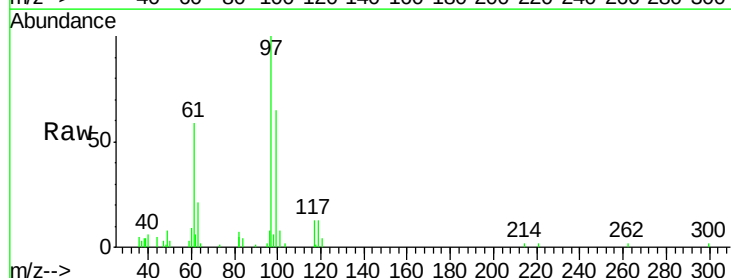
RT: 6.75 min Scan# 1760

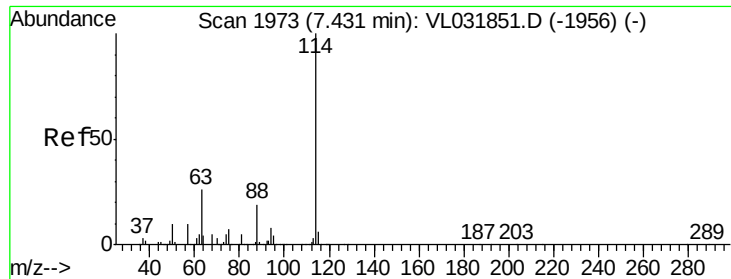
Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	71.7	51.5	77.3
61	61.4	40.0	60.0#





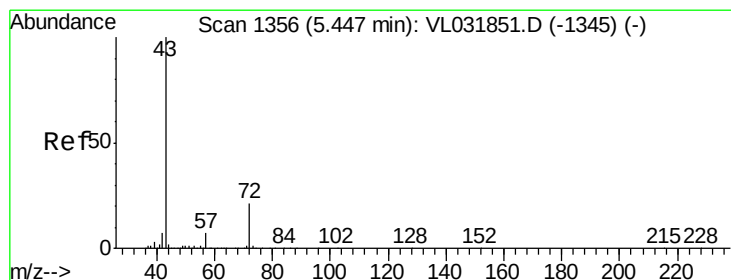
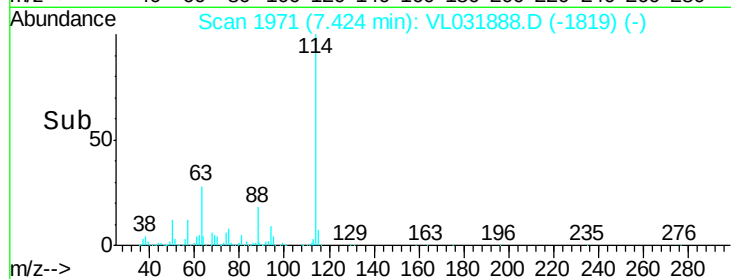
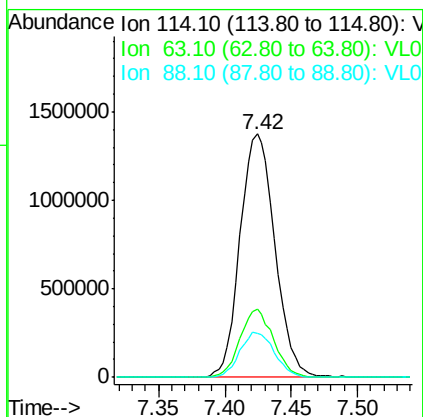
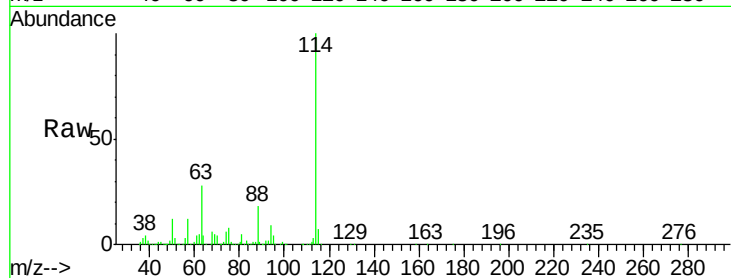
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.42 min Scan# 1971
 Delta R.T. -0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion:114 Resp: 2511367
 Ion Ratio Lower Upper
 114 100
 63 27.2 21.8 32.6
 88 18.4 14.6 22.0

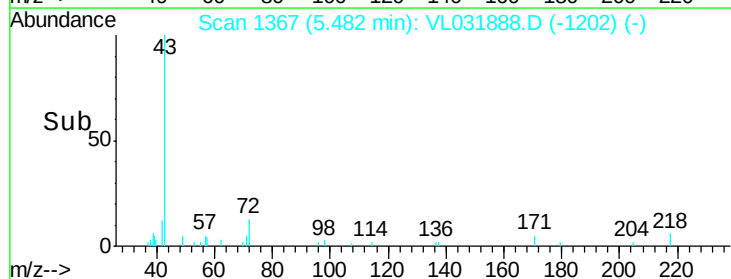
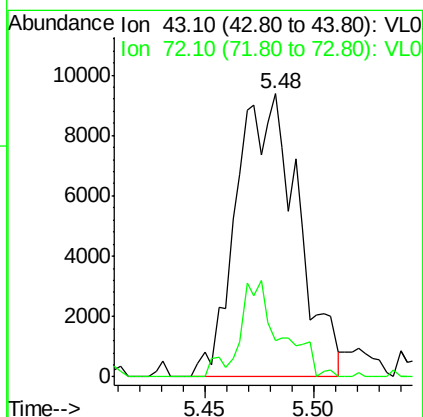
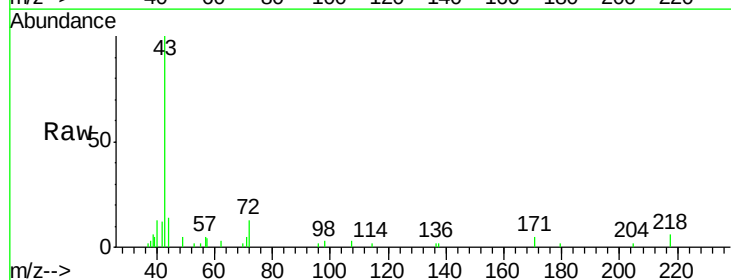
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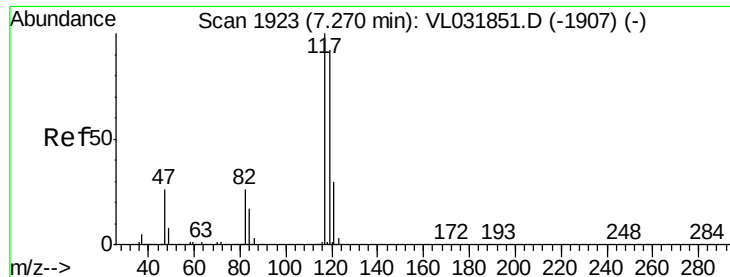
sam
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#34
 2-Butanone
 Concen: 0.11 ppbv m
 RT: 5.48 min Scan# 1367
 Delta R.T. 0.03 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion: 43 Resp: 18400
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#





#35

Carbon Tetrachloride

Concen: 0.12 ppbv m

RT: 7.27 min Scan# 1924

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

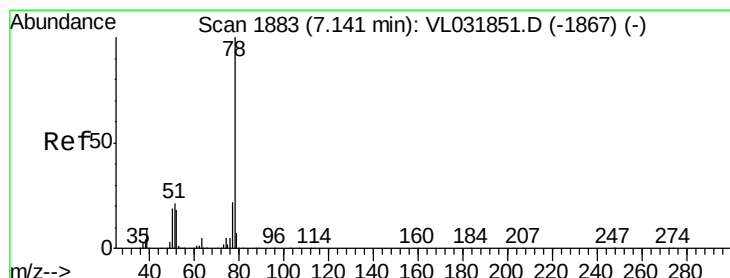
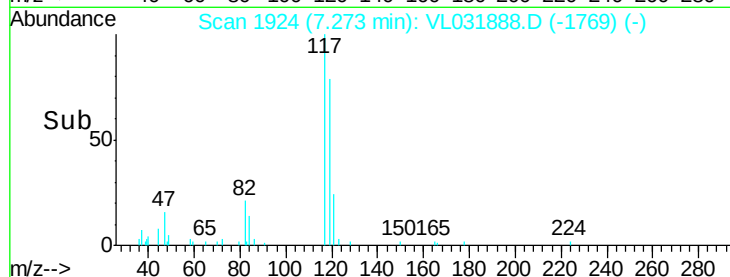
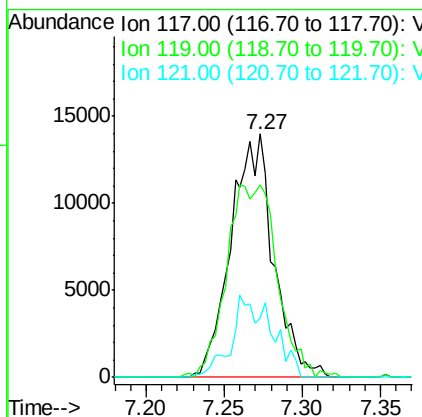
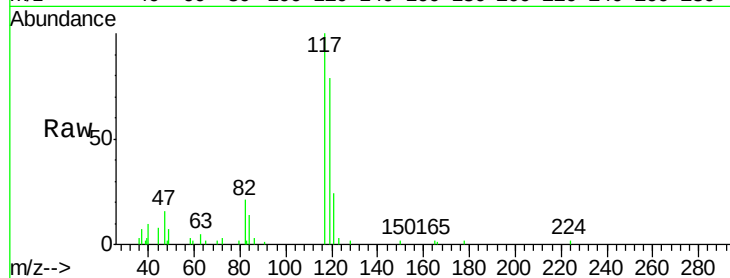
ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion:	117	Resp:	26619
Ion Ratio	Lower	Upper	
117	100		
119	78.9	76.9	115.3
121	24.3	24.5	36.7#

Manual Integrations
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#36

Benzene

Concen: 0.08 ppbv

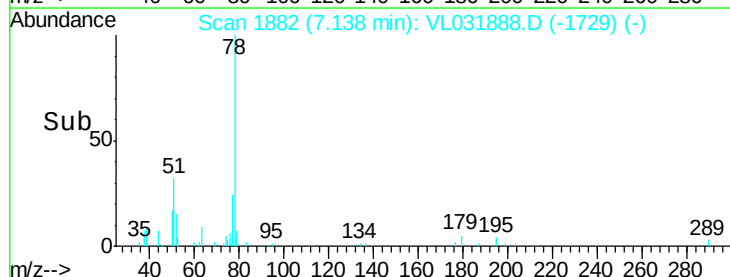
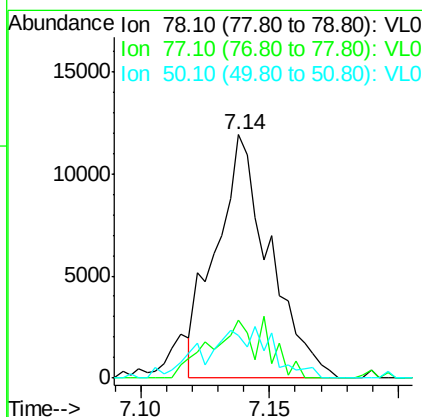
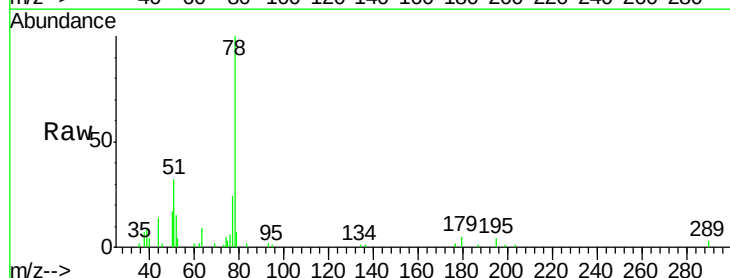
RT: 7.14 min Scan# 1882

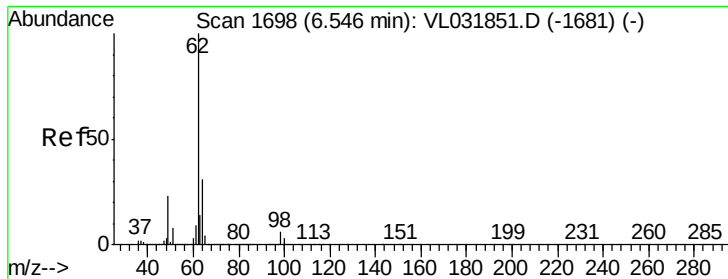
Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion:	78	Resp:	17199
Ion Ratio	Lower	Upper	
78	100		
77	23.6	19.2	28.8
50	17.4	16.7	25.1





#37

1,2-Dichloroethane

Concen: 0.12 ppbv m

RT: 6.54 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion: 62 Resp: 20822

Ion Ratio Lower Upper

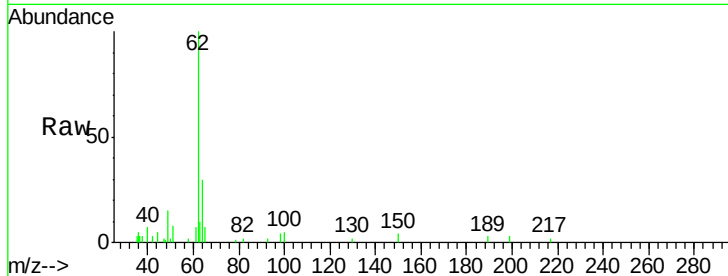
62 100

98 5.4 4.0 6.0

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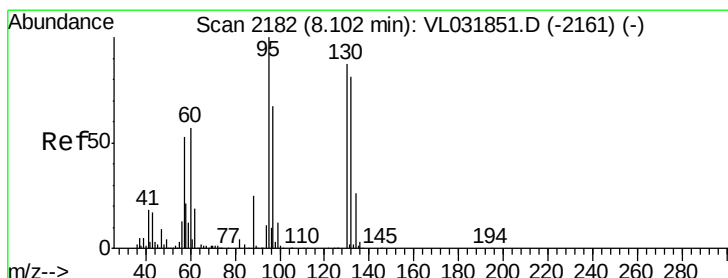
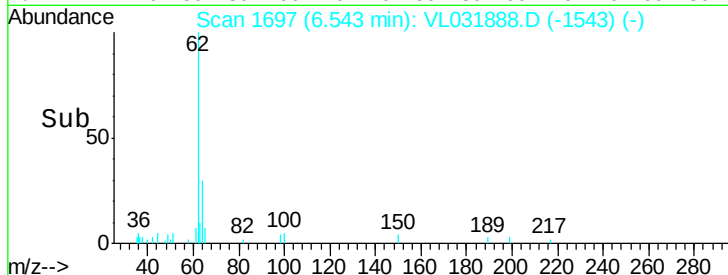
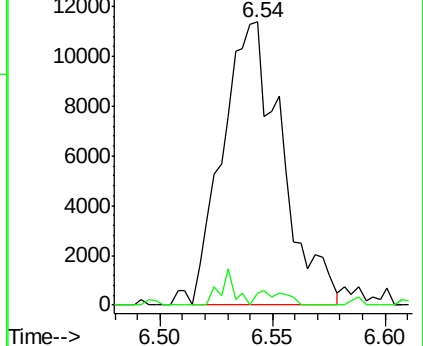
sam

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.10 ppbv m

RT: 8.09 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion: 130 Resp: 8729

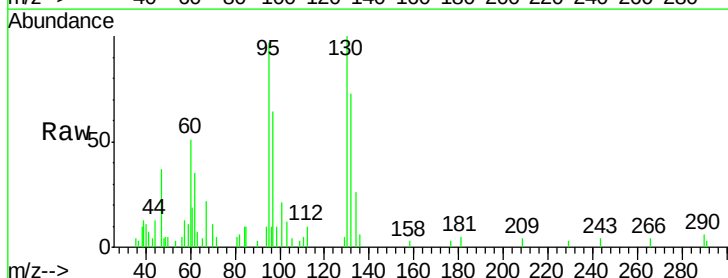
Ion Ratio Lower Upper

130 100

95 97.3 96.6 144.8

132 72.6 79.1 118.7#

97 63.5 61.5 92.3

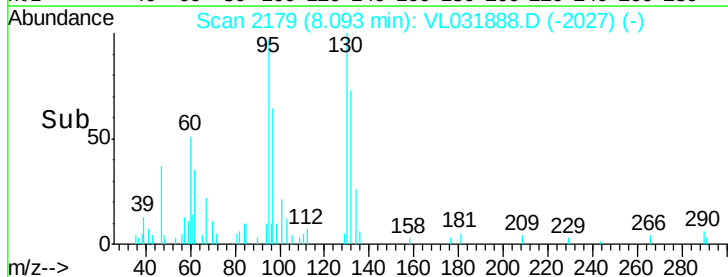
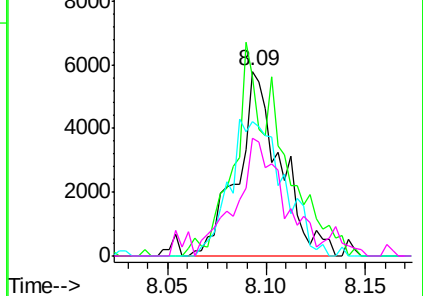


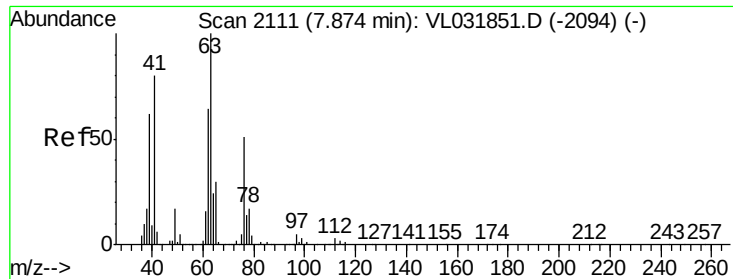
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





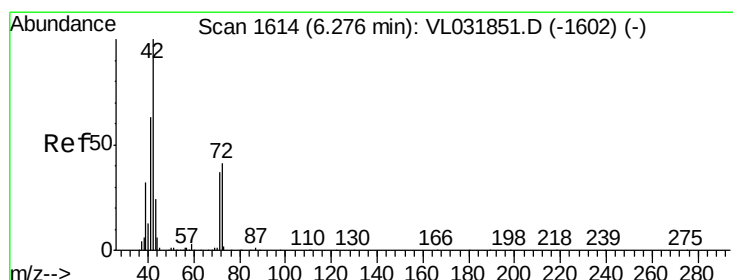
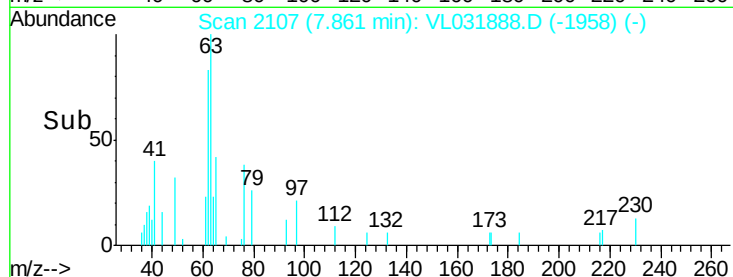
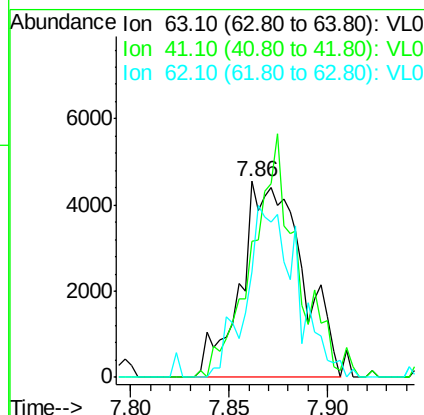
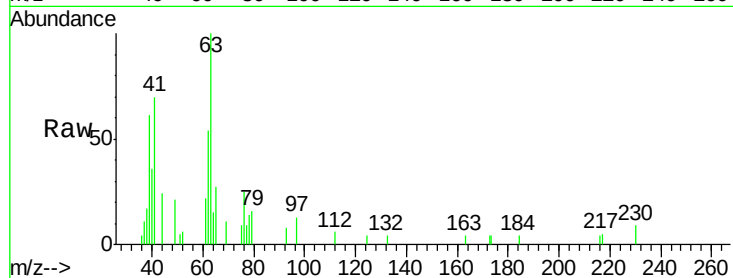
#39
 1,2-Dichloropropane
 Concen: 0.12 ppbv m
 RT: 7.86 min Scan# 2107
 Delta R.T. -0.02 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion:	63	Resp:	9894
Ion	Ratio	Lower	Upper
63	100		
41	69.7	65.8	98.6
62	53.8	55.0	82.6#

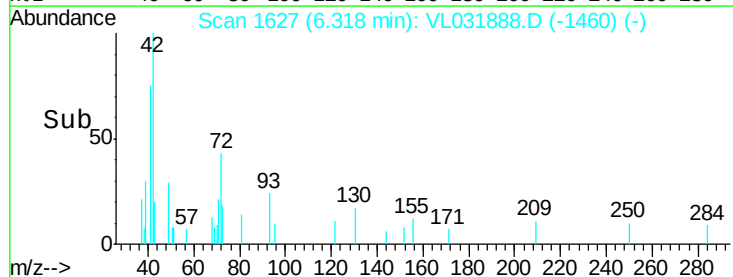
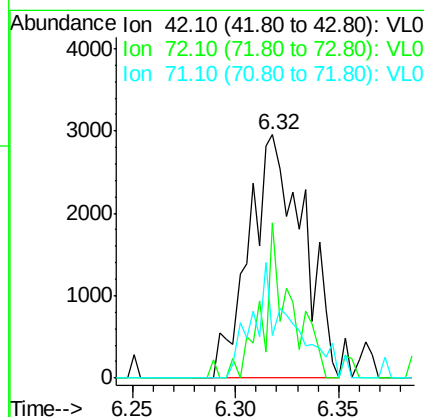
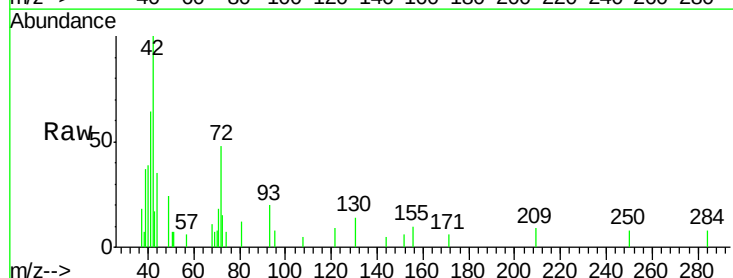
Manual Integrations
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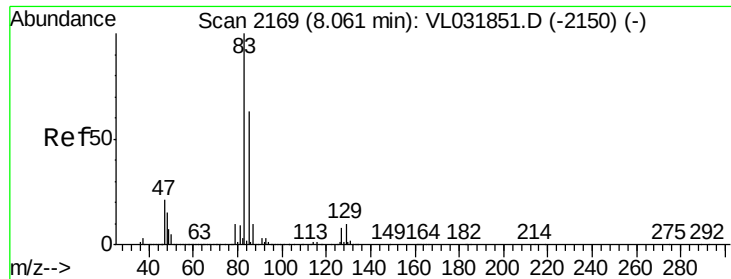
sam
 4/23/2018 12:50:11 PM



#41
 Tetrahydrofuran
 Concen: 0.07 ppbv m
 RT: 6.32 min Scan# 1627
 Delta R.T. 0.04 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion:	42	Resp:	5409
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.2	49.8#
71	1.3	31.5	47.3#





#42

Bromodichloromethane

Concen: 0.12 ppbv m

RT: 8.05 min Scan# 2165

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

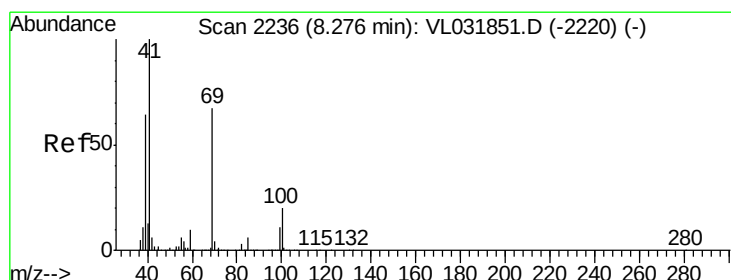
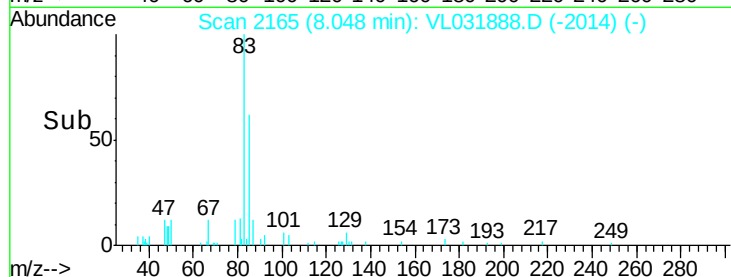
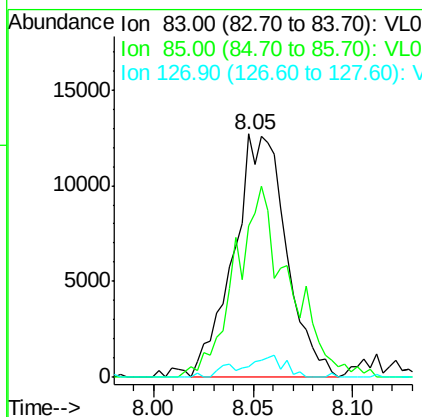
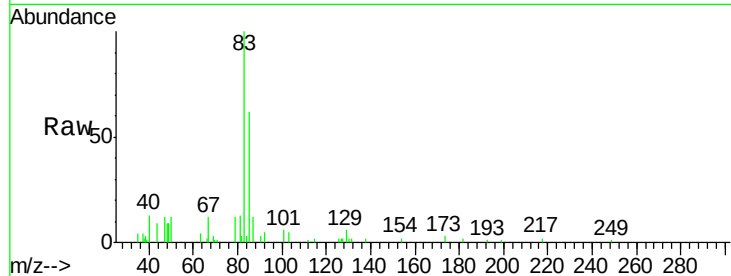
ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion:	83	Resp:	23400
Ion Ratio	Lower	Upper	
83	100		
85	62.2	50.5	75.7
127	2.4	6.0	9.0#

Manual Integrations
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sam
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#43

Methyl Methacrylate

Concen: 0.08 ppbv m

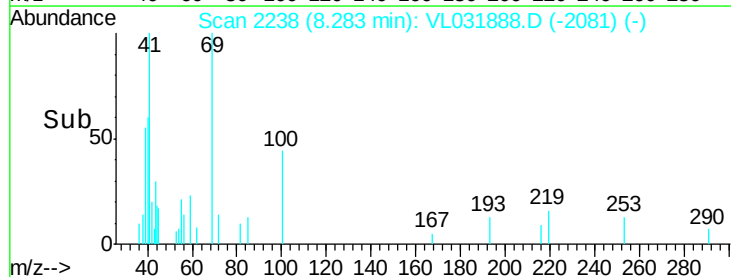
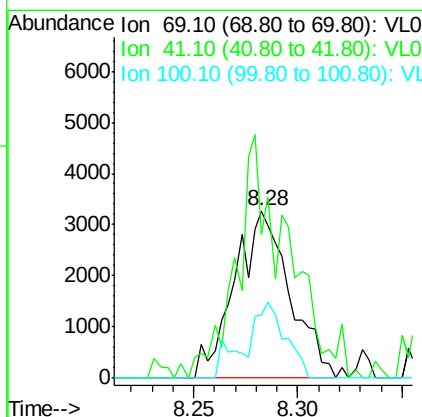
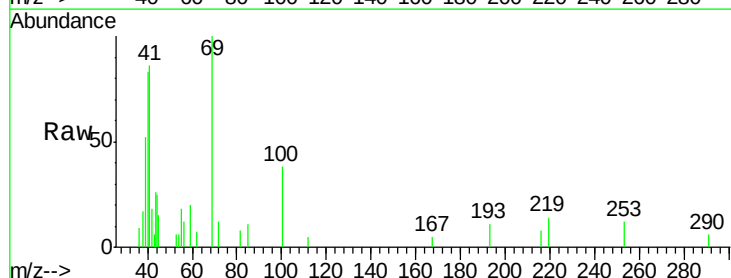
RT: 8.28 min Scan# 2238

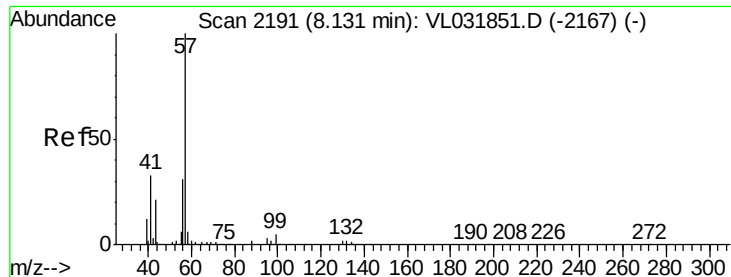
Delta R.T. 0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion:	69	Resp:	6069
Ion Ratio	Lower	Upper	
69	100		
41	0.0	117.8	176.8#
100	0.0	24.6	37.0#





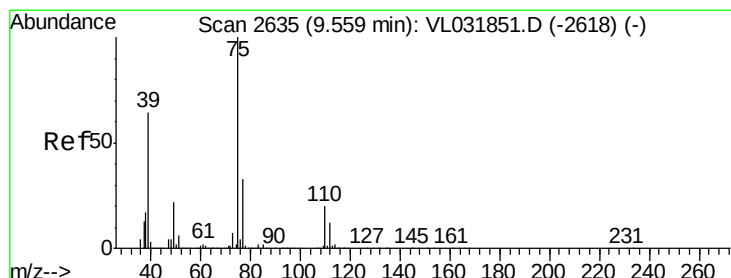
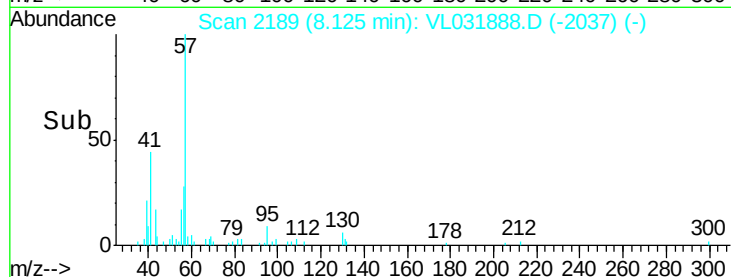
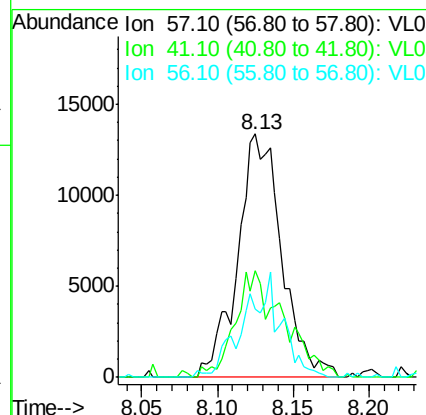
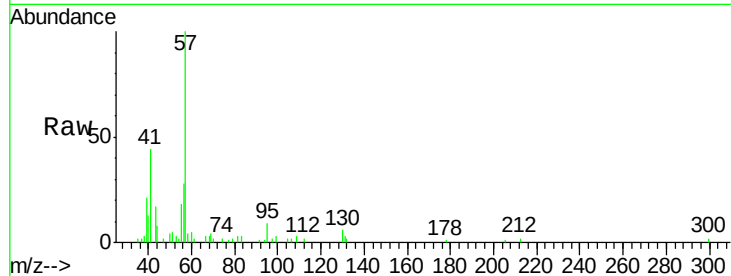
#44
 2,2,4-Trimethylpentane
 Concen: 0.07 ppbv m
 RT: 8.13 min Scan# 2189
 Delta R.T. -0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
57	100		
41	48.1	27.0	40.6#
56	0.0	24.1	36.1#

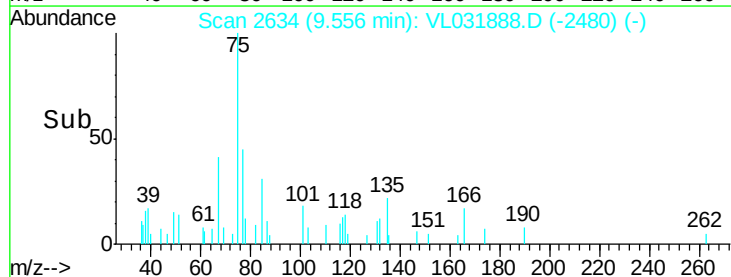
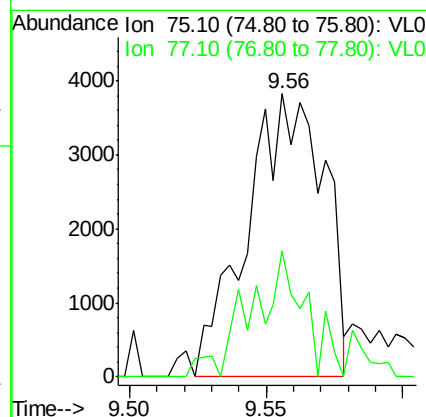
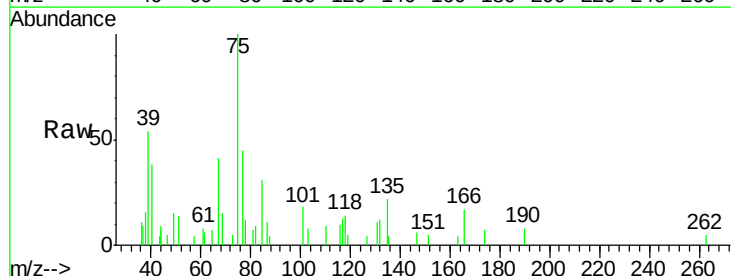
Manual Integrations
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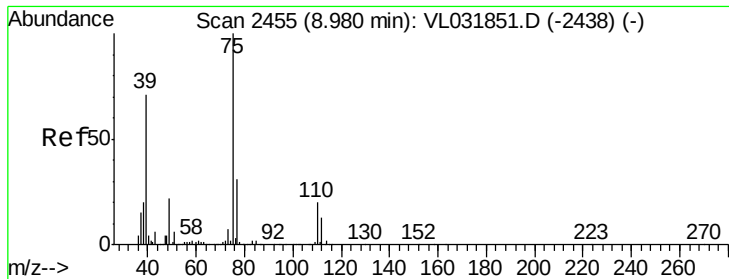
sam
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#45
 t-1,3-Dichloropropene
 Concen: 0.07 ppbv m
 RT: 9.56 min Scan# 2634
 Delta R.T. -0.00 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
75	100		
77	44.5	25.1	37.7#





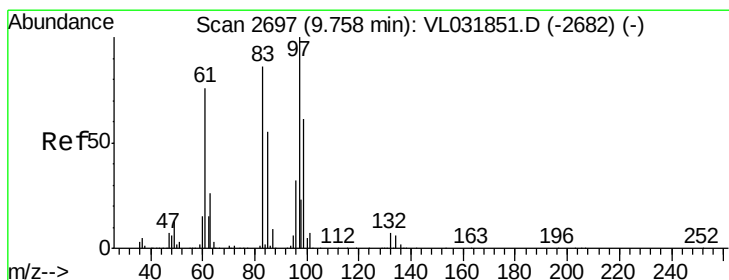
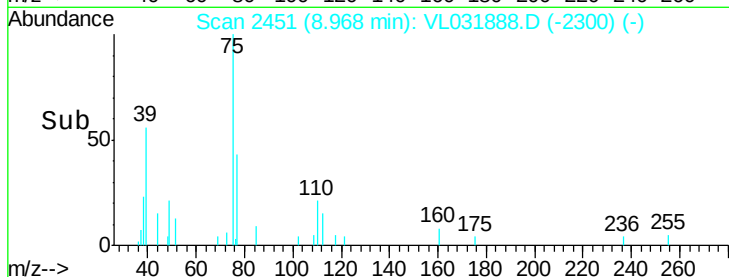
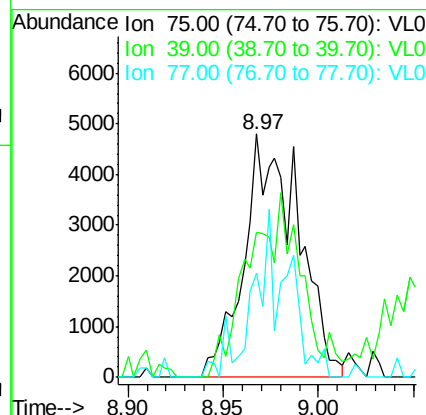
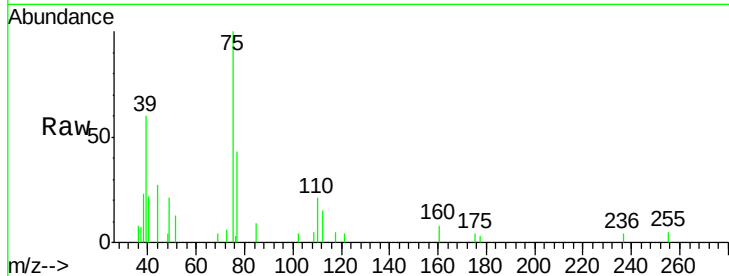
#46
 cis-1,3-Dichloropropene
 Concen: 0.07 ppbv m
 RT: 8.97 min Scan# 2451
 Delta R.T. -0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
75	100		
39	59.7	58.6	87.8
77	42.9	26.8	40.2#

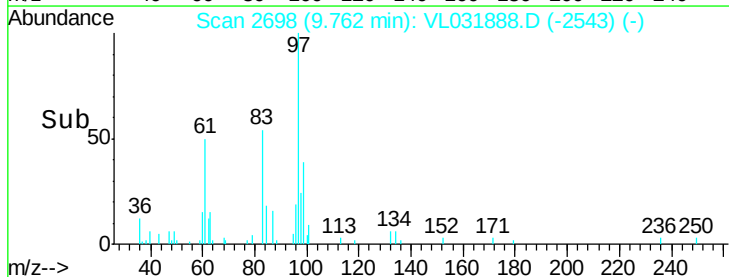
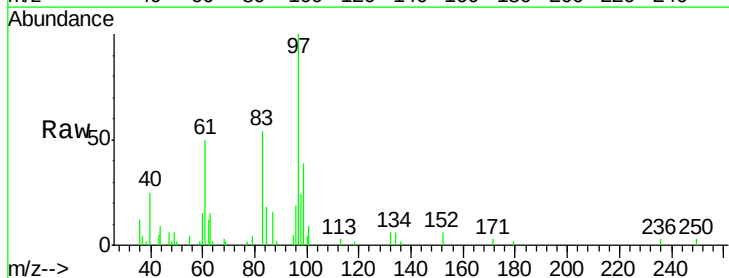
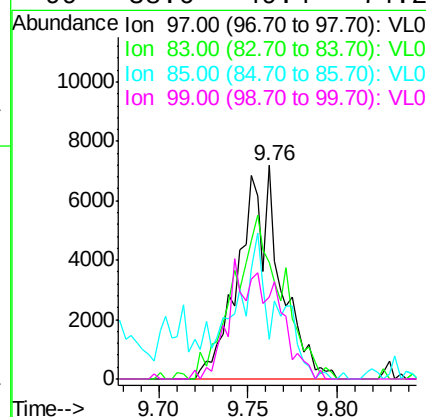
Manual Integrations
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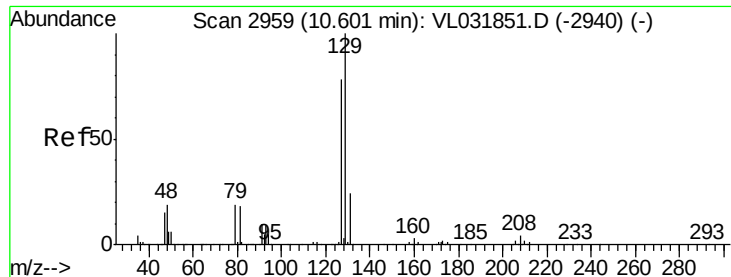
sam
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#47
 1,1,2-Trichloroethane
 Concen: 0.11 ppbv m
 RT: 9.76 min Scan# 2698
 Delta R.T. -0.00 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
97	100		
83	54.5	69.1	103.7#
85	18.5	43.7	65.5#
99	38.6	49.4	74.2#





#48

Dibromochloromethane

Concen: 0.10 ppbv

RT: 10.60 min Scan# 2959

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion:129 Resp: 15981

Ion Ratio Lower Upper

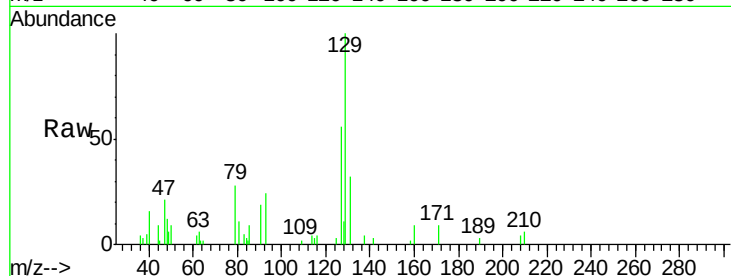
129 100

127 80.2 39.1 117.5

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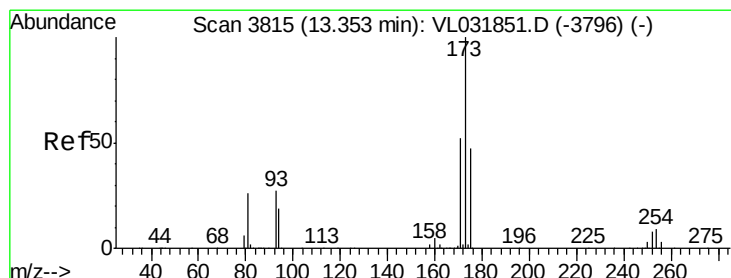
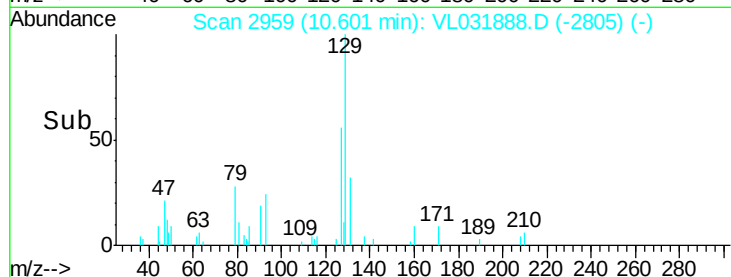
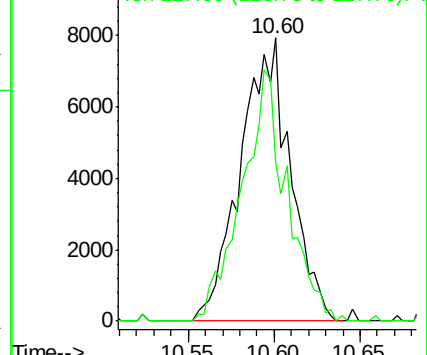
sam

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.10 ppbv m

RT: 13.34 min Scan# 3812

Delta R.T. -0.02 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

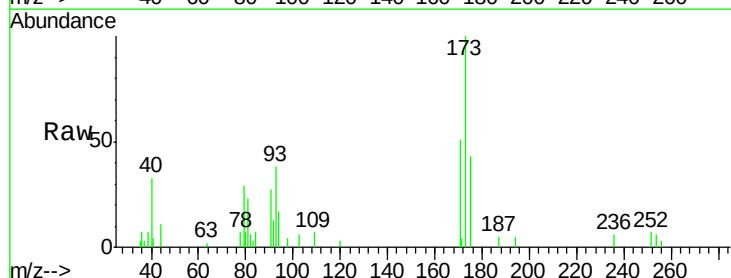
Tgt Ion:173 Resp: 12181

Ion Ratio Lower Upper

173 100

175 43.5 39.0 58.6

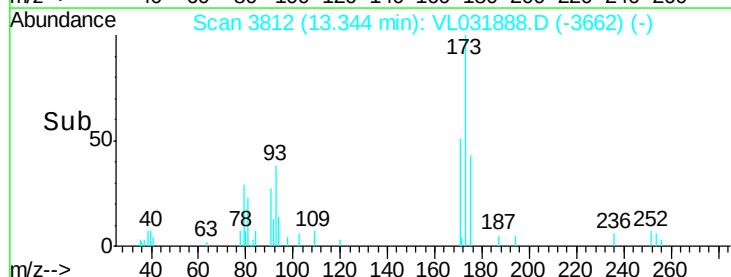
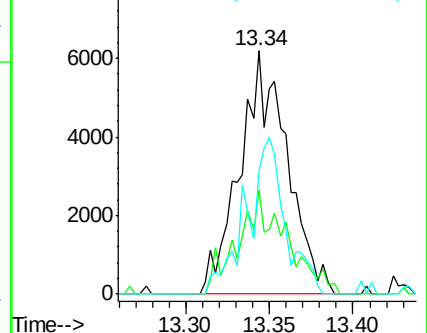
171 0.0 41.4 62.0#

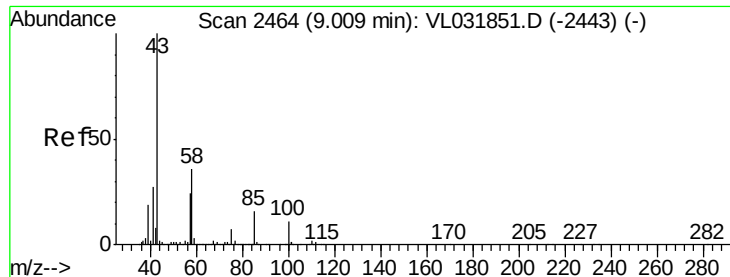


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V





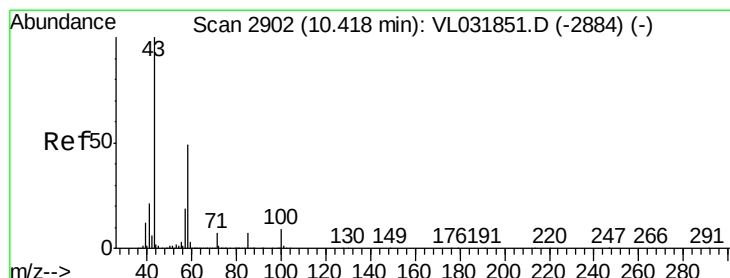
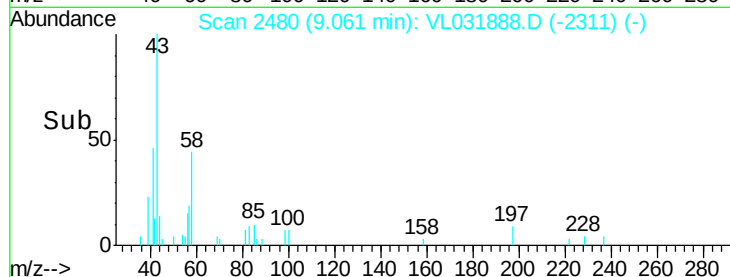
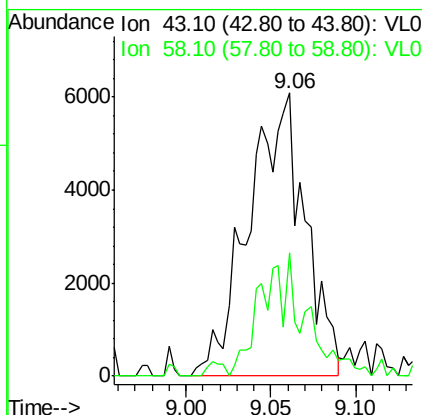
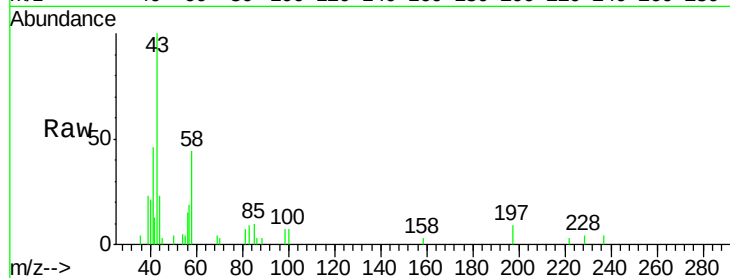
#50
4-Methyl-2-Pentanone
Concen: 0.07 ppbv m
RT: 9.06 min Scan# 2480
Delta R.T. 0.04 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

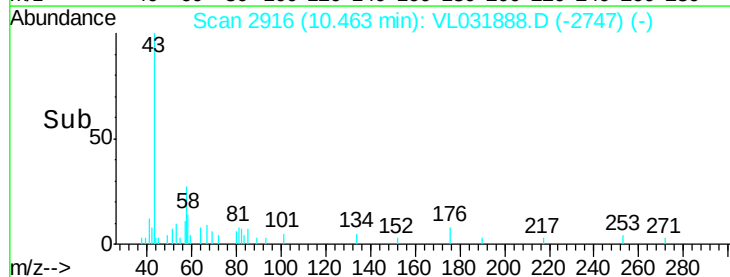
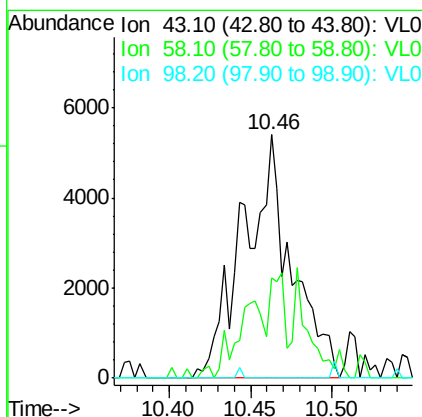
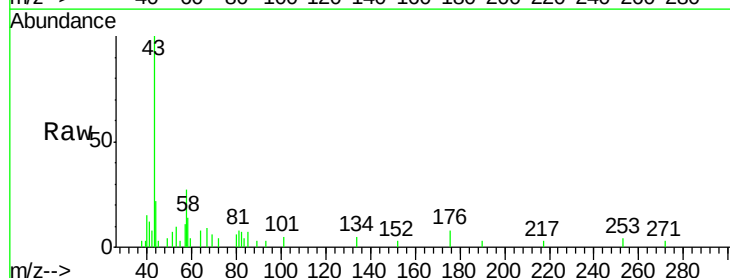
Manual Integrations
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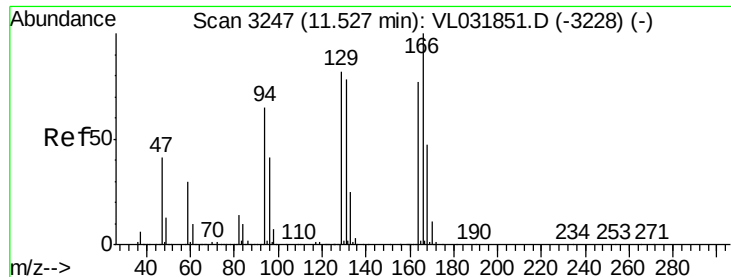
sam
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#51
2-Hexanone
Concen: 0.06 ppbv m
RT: 10.46 min Scan# 2916
Delta R.T. 0.04 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.5	57.7#
98	0.0	0.2	0.4#





#52

Tetrachloroethene

Concen: 0.10 ppbv m

RT: 11.52 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

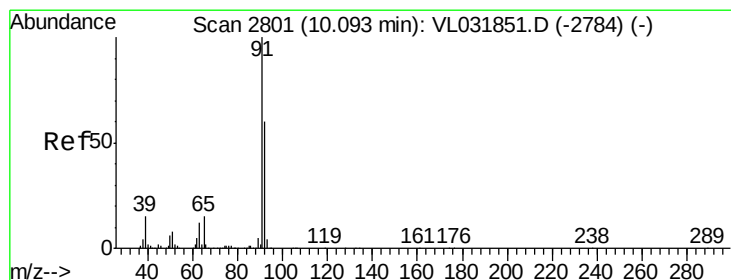
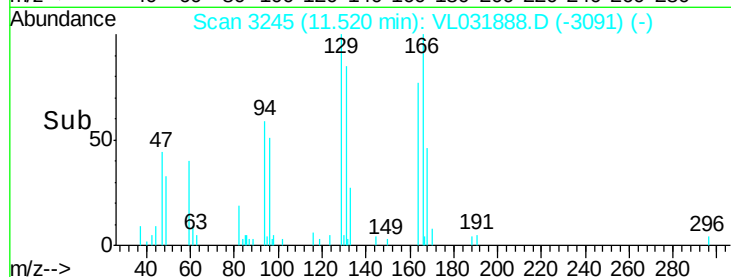
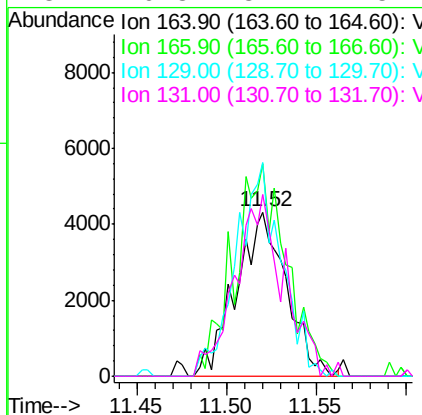
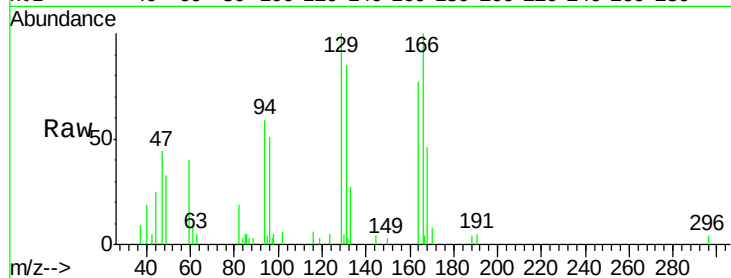
ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion	164	Resp:	8403
Ion	Ratio	Lower	Upper
164	100		
166	129.4	98.2	147.4
129	130.1	86.5	129.7#
131	110.8	82.2	123.2

Manual Integrations
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#53

Toluene

Concen: 0.06 ppbv m

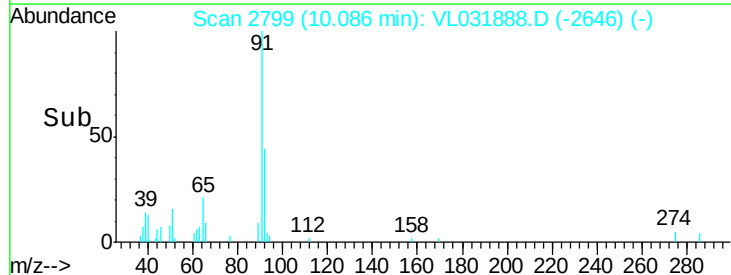
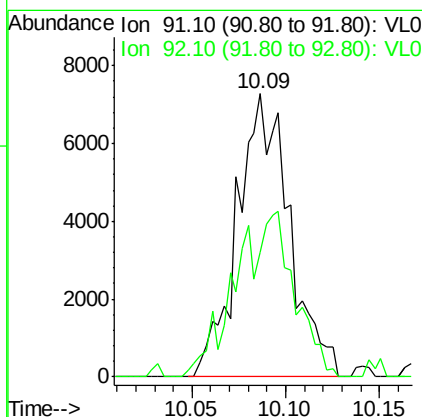
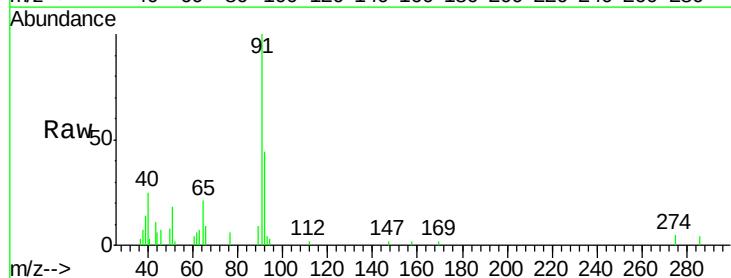
RT: 10.09 min Scan# 2799

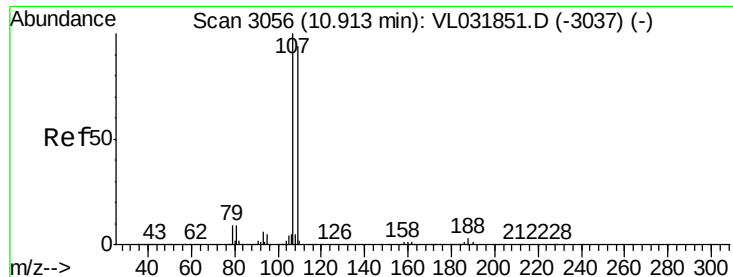
Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion	91	Resp:	14062
Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.4	71.2#





#54

1,2-Dibromoethane

Concen: 0.09 ppbv m

RT: 10.90 min Scan# 3053

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion:107 Resp: 12532

Ion Ratio Lower Upper

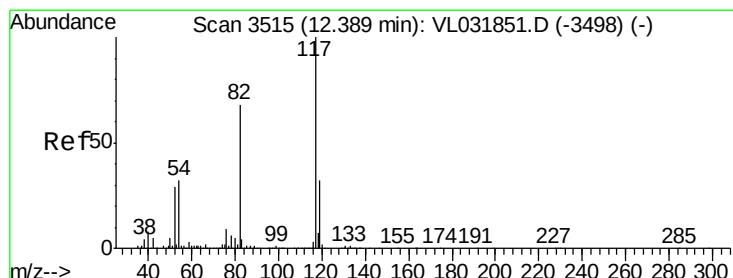
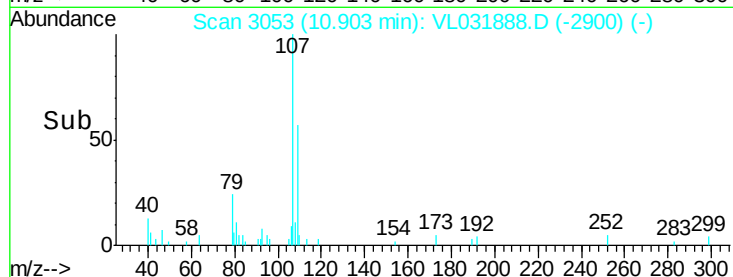
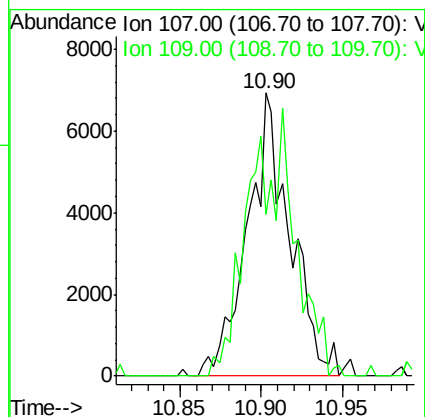
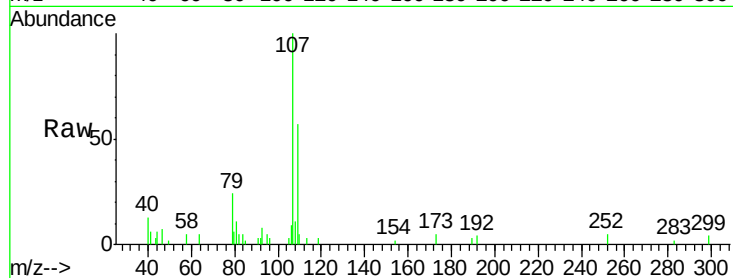
107 100

109 57.1 74.6 112.0#

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.39 min Scan# 3514

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

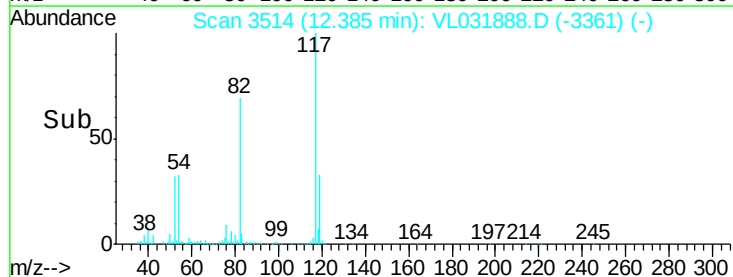
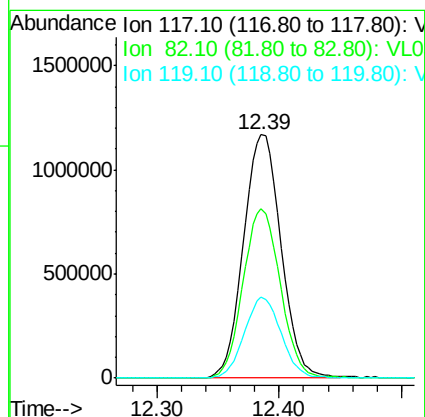
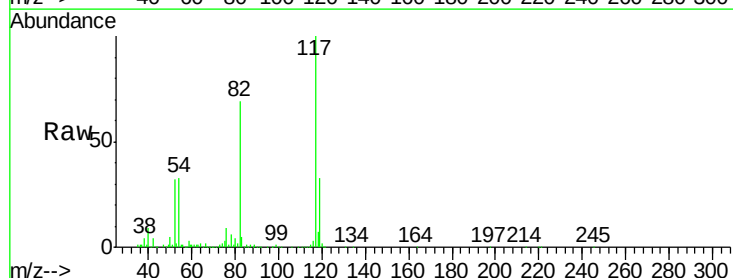
Tgt Ion:117 Resp: 2485498

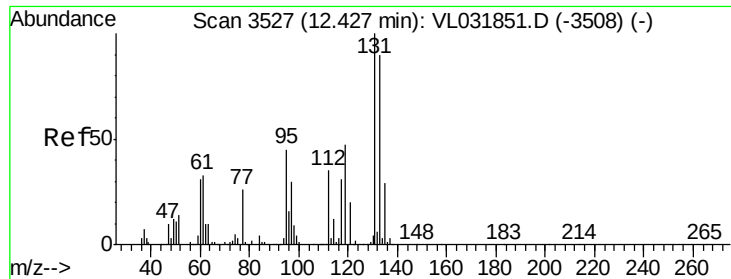
Ion Ratio Lower Upper

117 100

82 69.4 54.6 81.8

119 32.8 26.0 39.0





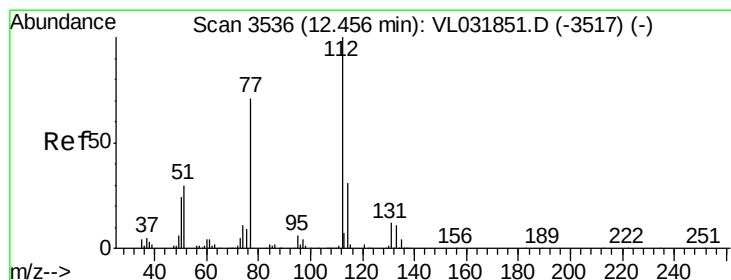
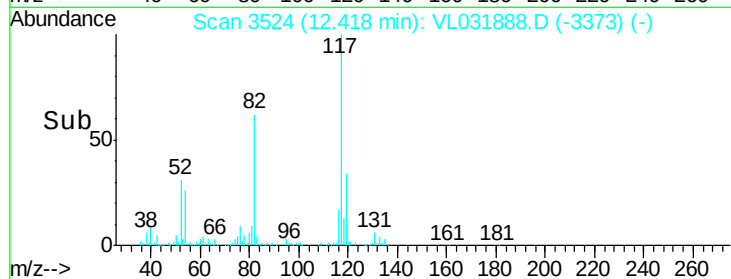
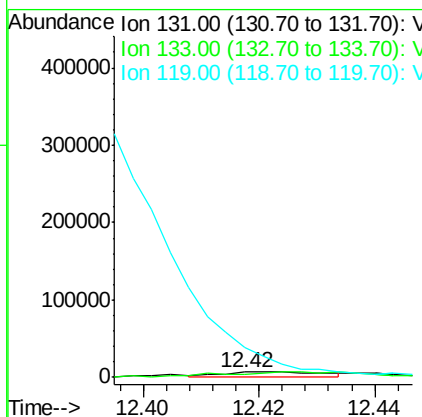
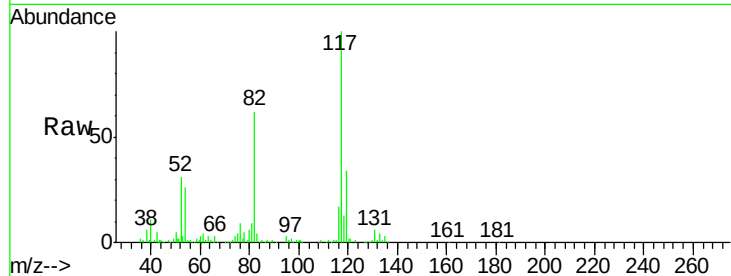
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.07 ppbv
 RT: 12.42 min Scan# 3524
 Delta R.T. -0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Resp	Lower	Upper
131	100	8255		
133	0.0	76.1	114.1#	
119	0.0	106.3	159.5#	

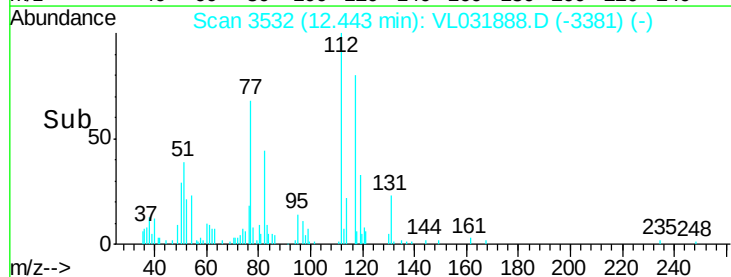
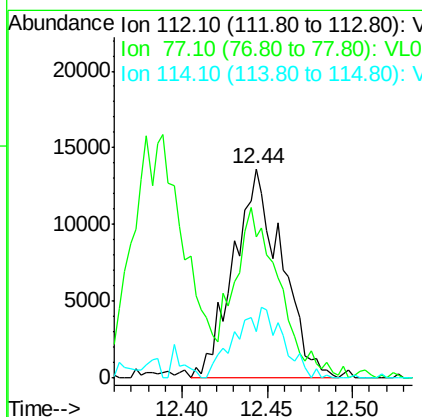
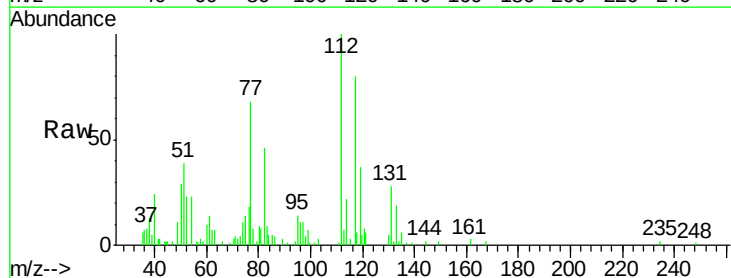
Manual Integrations
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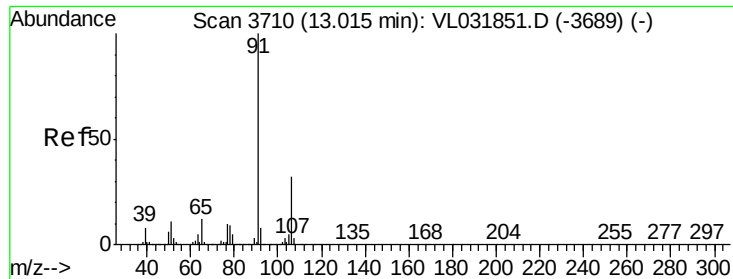
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#57
 Chlorobenzene
 Concen: 0.13 ppbv m
 RT: 12.44 min Scan# 3532
 Delta R.T. -0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	26752		
77	67.6	57.0	85.6	
114	22.5	28.5	34.9#	





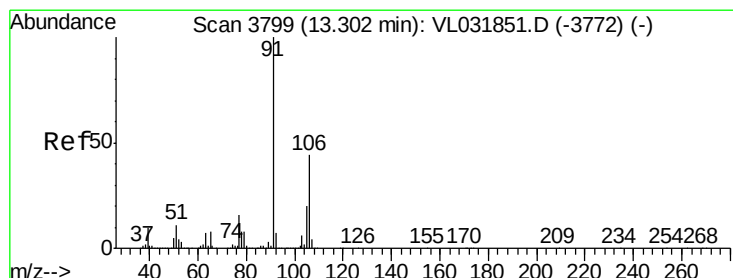
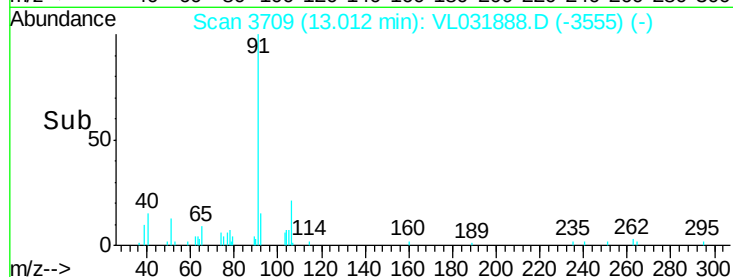
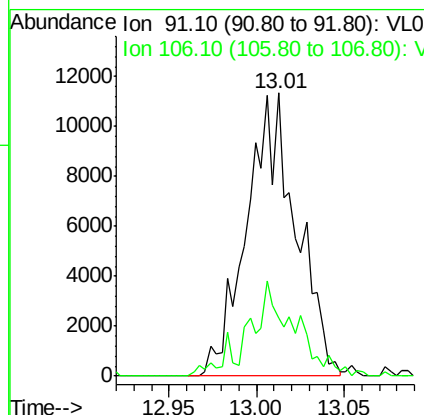
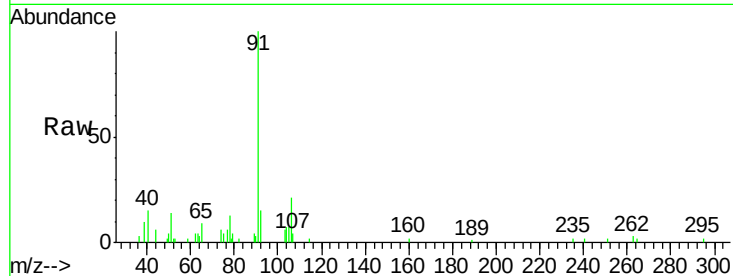
#58
Ethyl Benzene
Concen: 0.06 ppbv m
RT: 13.01 min Scan# 3709
Delta R.T. -0.00 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

Tot Ion: 91 Resp: 22265
Ion Ratio Lower Upper
91 100
106 20.5 23.8 35.6#

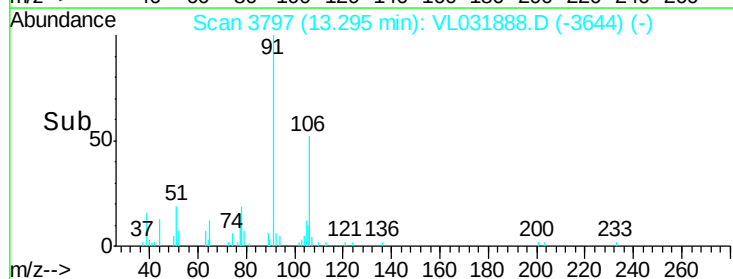
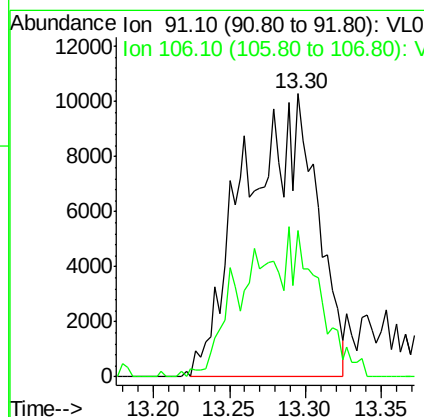
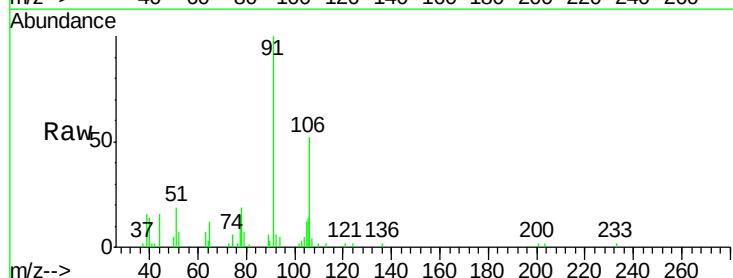
Manual Integrations
APPROVED

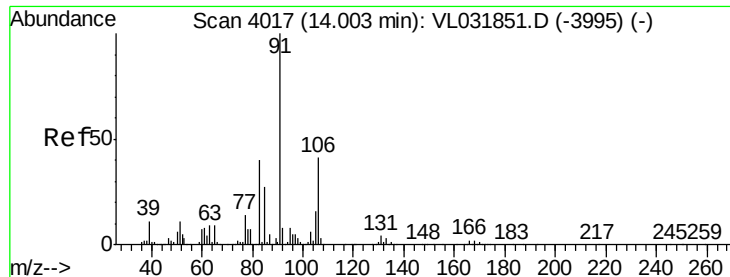
sam
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#59
m/p-Xylene
Concen: 0.11 ppbv m
RT: 13.30 min Scan# 3797
Delta R.T. -0.01 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Tgt Ion: 91 Resp: 33644
Ion Ratio Lower Upper
91 100
106 23.2 35.5 53.3#





#60

o-Xylene

Concen: 0.06 ppbv m

RT: 14.00 min Scan# 4015

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion: 91 Resp: 17463

Ion Ratio Lower Upper

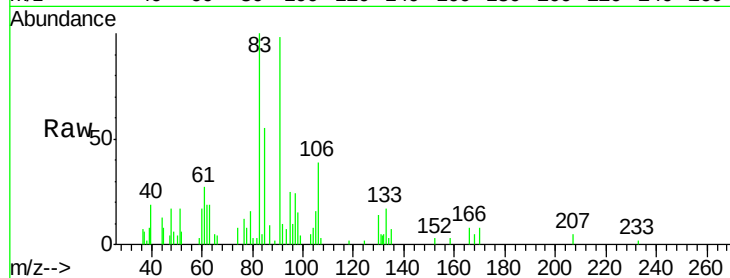
91 100

106 46.2 21.3 63.9

Manual Integrations
APPROVED

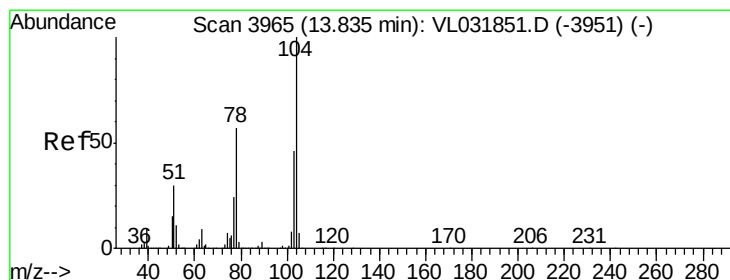
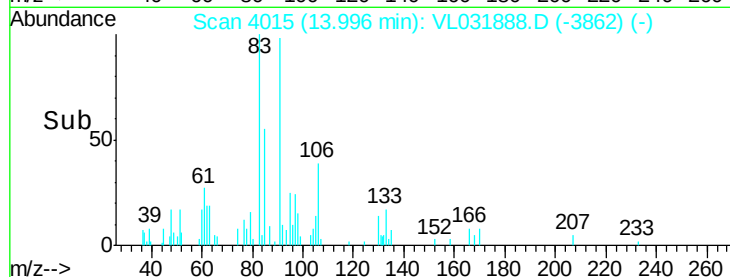
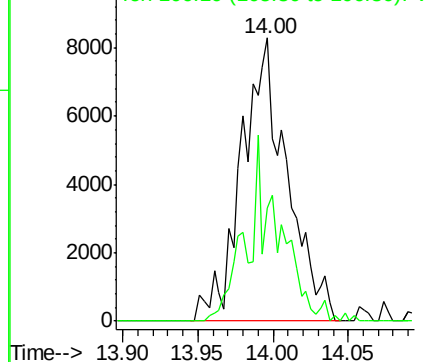
sam

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.07 ppbv m

RT: 13.83 min Scan# 3963

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

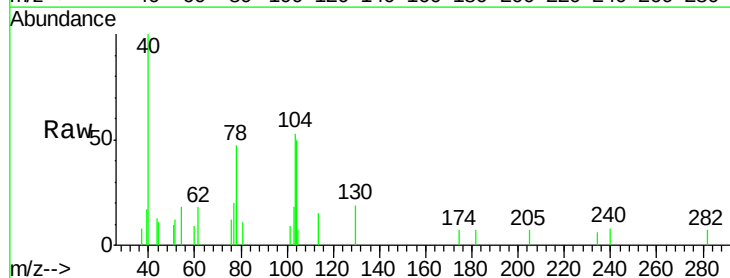
Tgt Ion: 104 Resp: 3819

Ion Ratio Lower Upper

104 100

78 66.9 44.4 66.6#

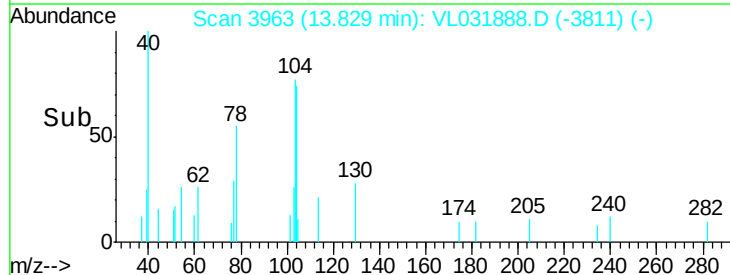
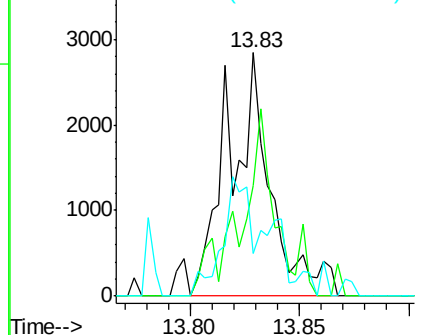
103 0.0 37.9 56.9#

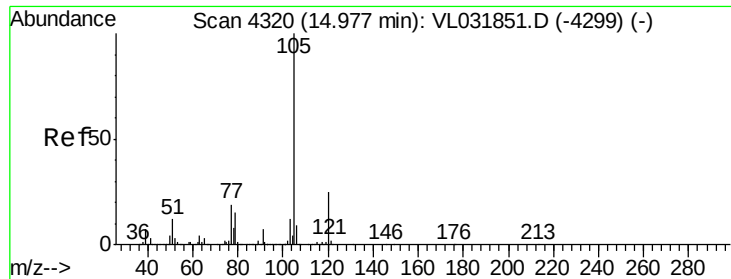


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#62

Isopropylbenzene

Concen: 0.07 ppbv m

RT: 14.98 min Scan# 4320

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion:105 Resp: 28764

Ion Ratio Lower Upper

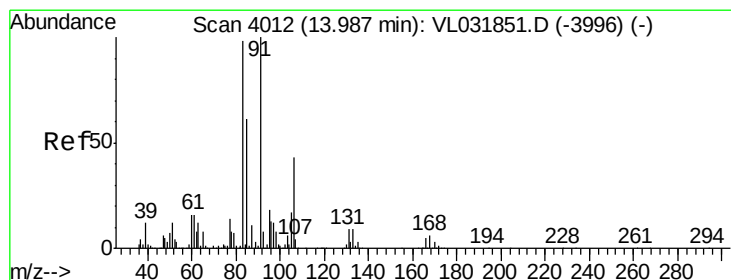
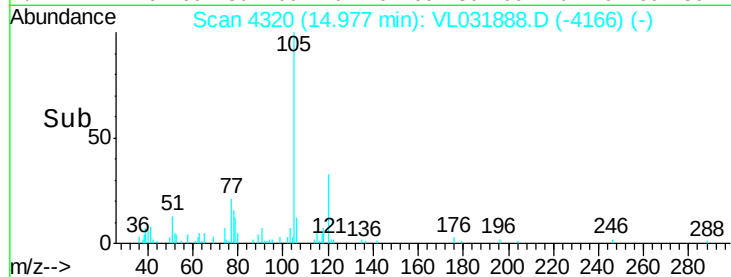
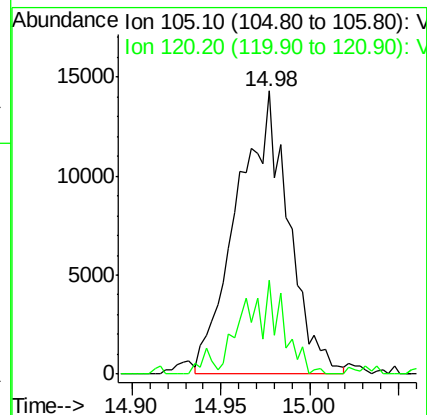
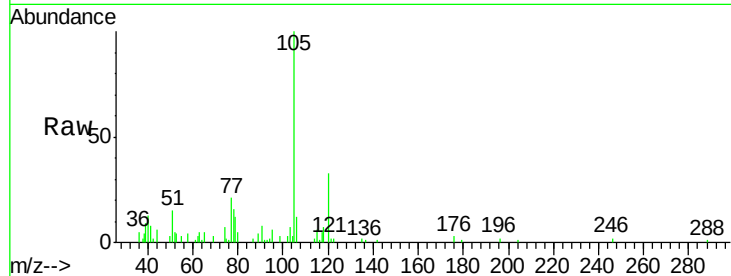
105 100

120 26.5 19.4 29.2

Manual Integrations
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sam

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#63

1,1,2,2-Tetrachloroethane

Concen: 0.12 ppbv m

RT: 13.98 min Scan# 4010

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

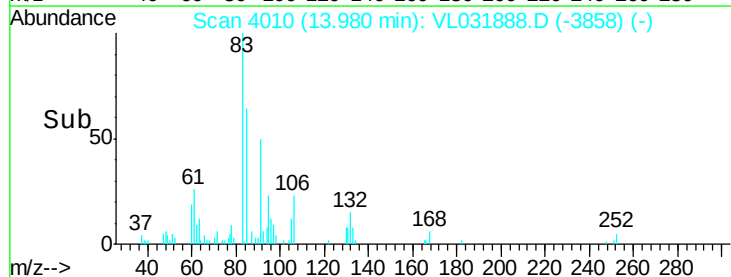
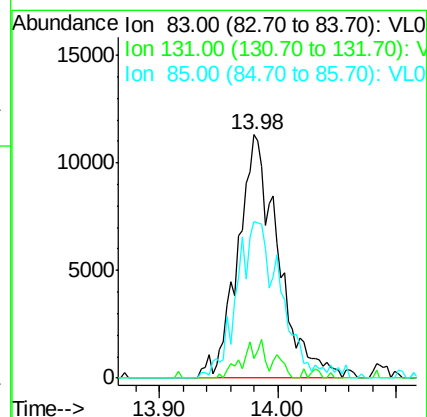
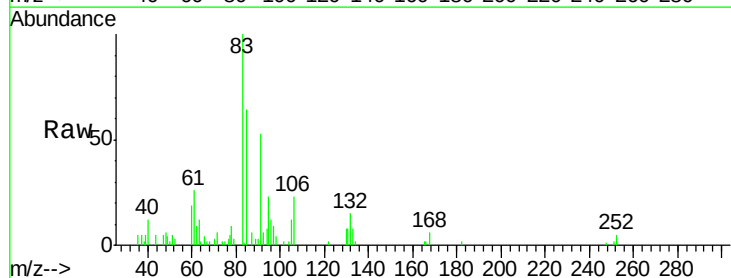
Tgt Ion: 83 Resp: 26526

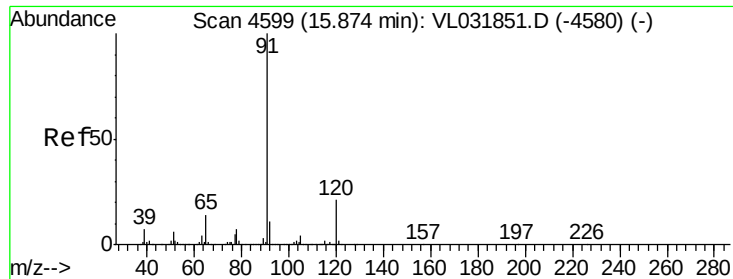
Ion Ratio Lower Upper

83 100

131 12.0 4.9 14.6

85 71.3 32.2 96.6





#64

n-propylbenzene

Concen: 0.05 ppbv m

RT: 15.88 min Scan# 4600

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion:120 Resp: 5058

Ion Ratio Lower Upper

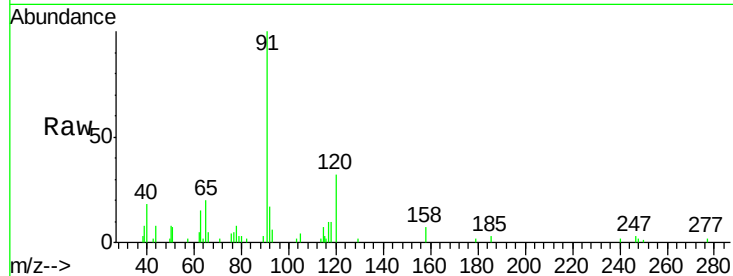
120 100

91 598.8 393.7 590.5#

Manual Integrations
APPROVED

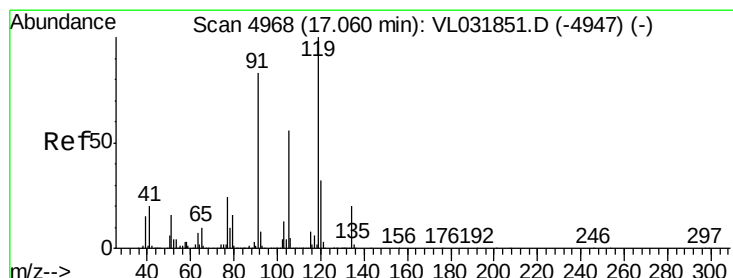
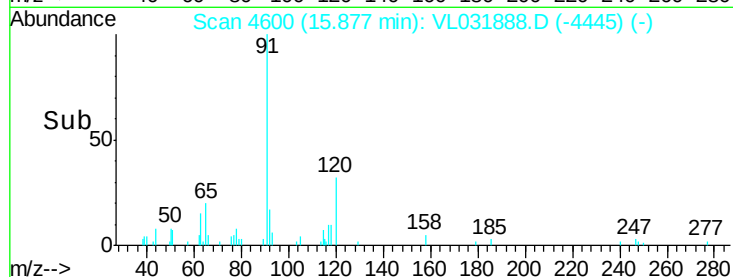
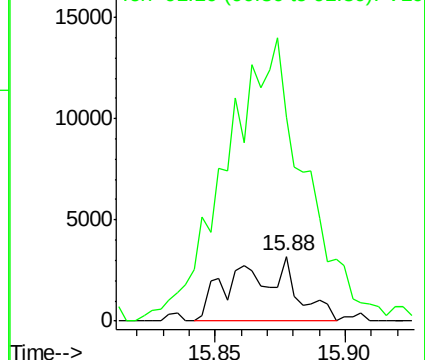
sam

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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.05 ppbv m

RT: 17.05 min Scan# 4964

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

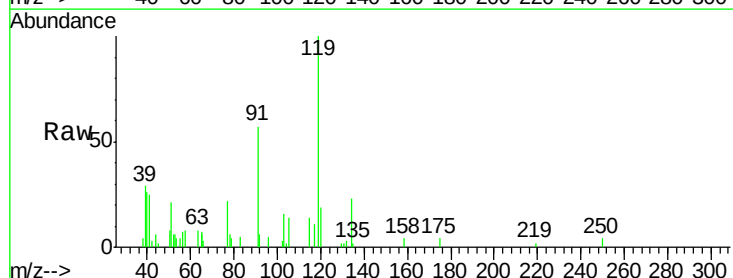
Tgt Ion:119 Resp: 17577

Ion Ratio Lower Upper

119 100

91 0.0 69.4 104.0#

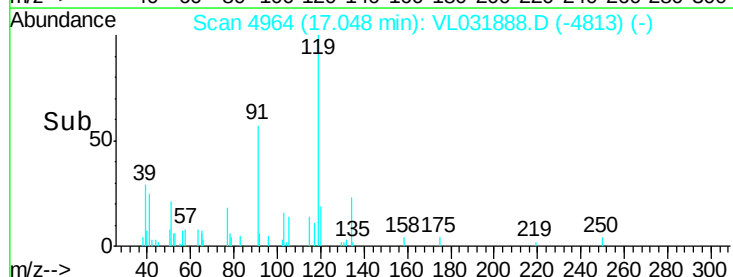
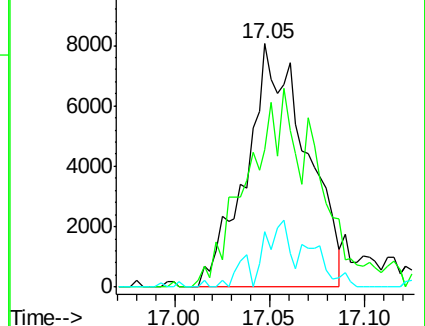
134 0.0 15.4 23.2#

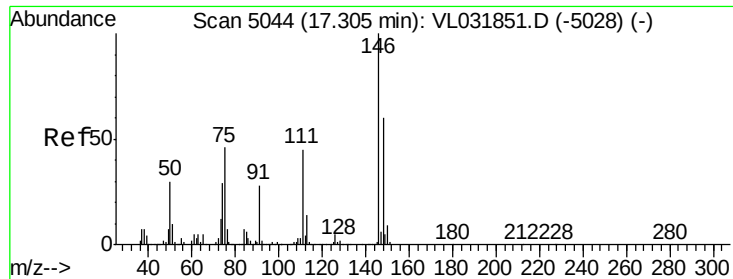


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V





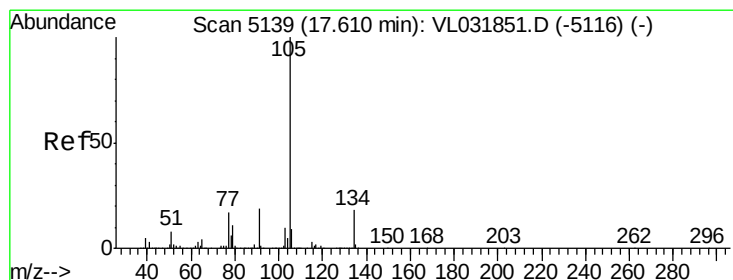
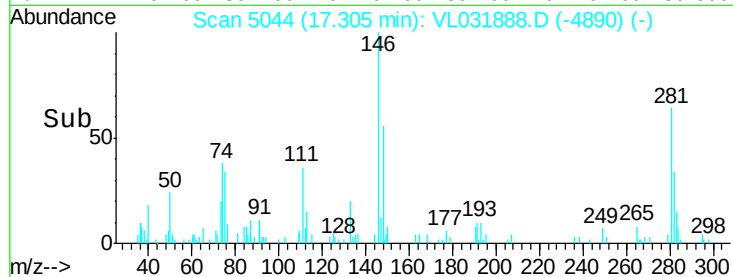
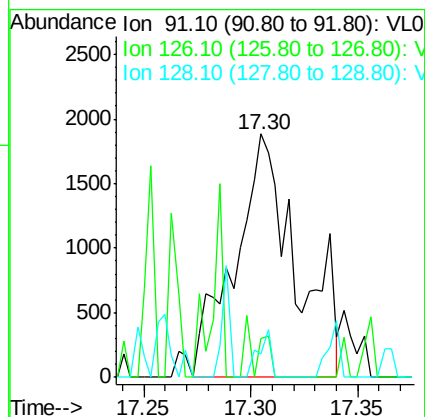
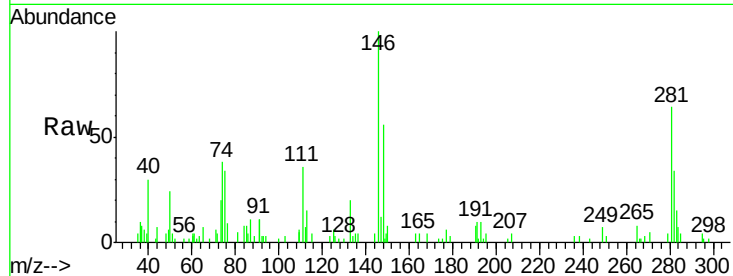
#66
Benzyl Chloride
Concen: 0.13 ppbv m
RT: 17.30 min Scan# 5044
Delta R.T. -0.00 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Resp	Lower	Upper
91	100	3741		
126	0.0	12.6	19.0#	
128	4.0	4.0	6.0#	

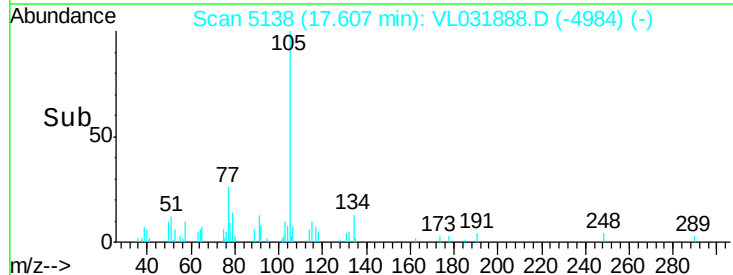
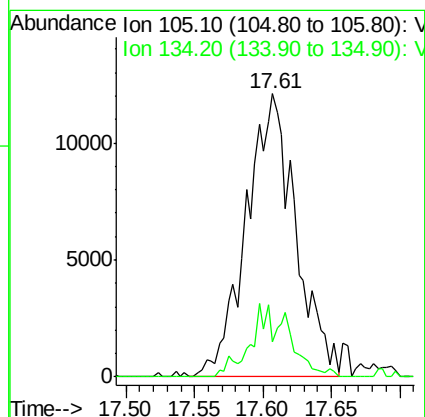
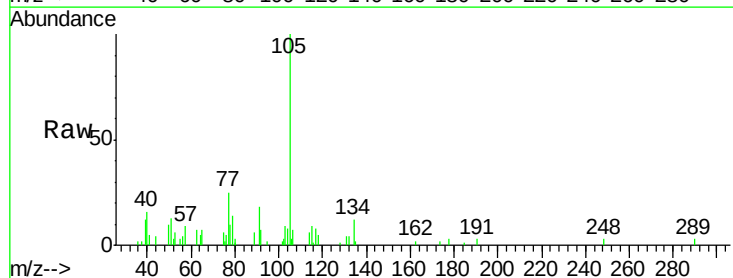
Manual Integrations
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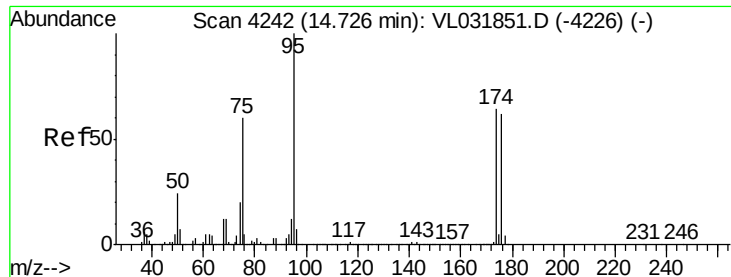
sam
4/23/2018 12:50:11 PM



#67
sec-Butylbenzene
Concen: 0.06 ppbv m
RT: 17.61 min Scan# 5138
Delta R.T. -0.00 min
Lab File: VL031888.D
Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	30314		
134	19.8	14.2	21.2	





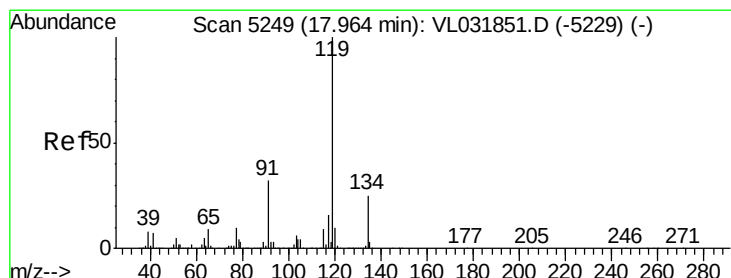
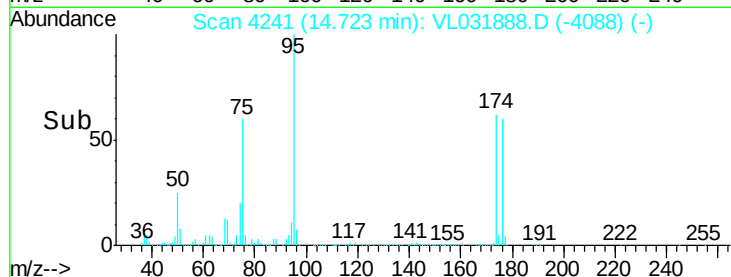
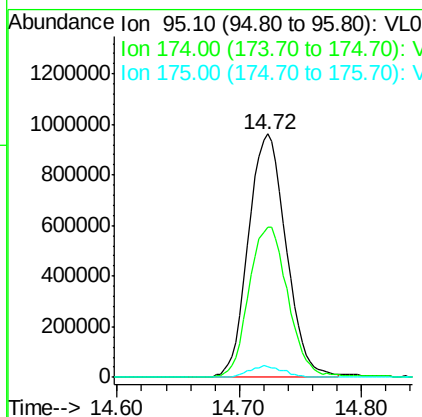
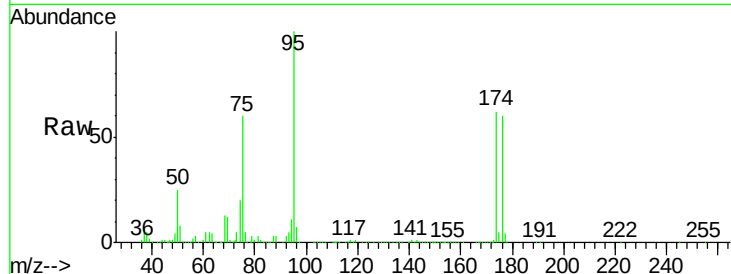
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.29 ppbv
 RT: 14.72 min Scan# 4241
 Delta R.T. -0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion: 95 Resp: 2056692
 Ion Ratio Lower Upper
 95 100
 174 64.4 52.3 78.5
 175 4.5 3.9 5.9

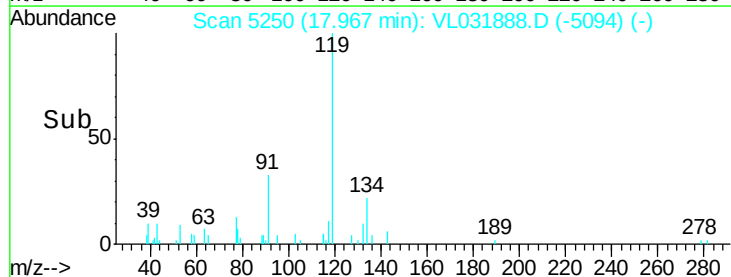
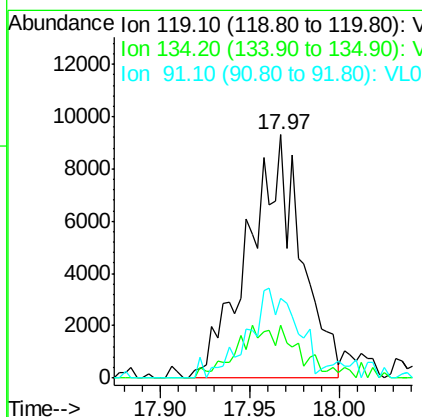
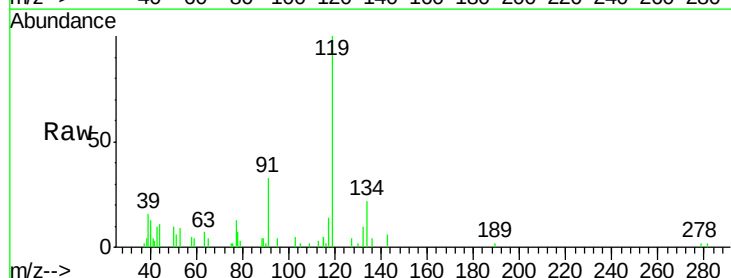
Manual Integrations
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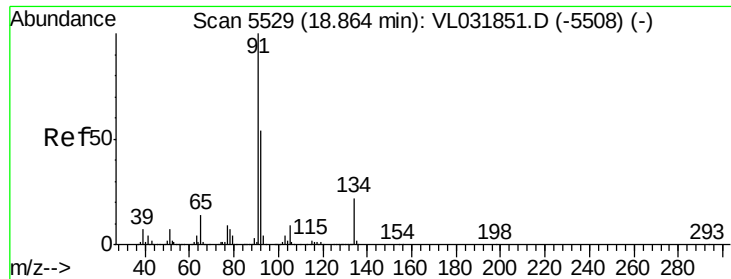
sam
 4/23/2018 12:50:11 PM



#69
 p-Isopropyltoluene
 Concen: 0.05 ppbv m
 RT: 17.97 min Scan# 5250
 Delta R.T. 0.00 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion: 119 Resp: 19010
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.0 30.0#
 91 36.3 24.9 37.3





#70

n-Butylbenzene

Concen: 0.06 ppbv m

RT: 18.85 min Scan# 5525

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

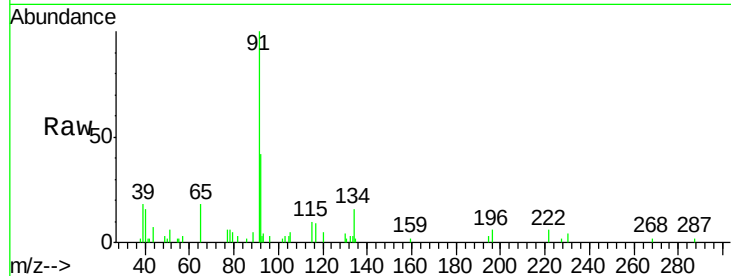
ClientSampleId :

MDL-AIR-03-QT2-2018

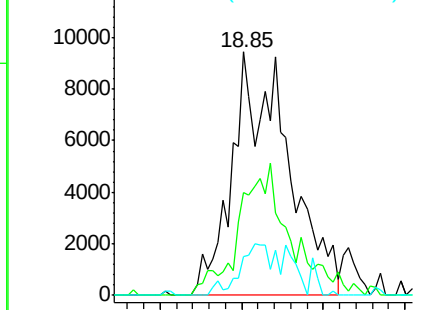
Tot Ion:	91	Resp:	22416
Ion Ratio	Lower	Upper	
91	100		
92	0.0	42.2	63.4#
134	0.0	17.4	26.0#

Manual Integrations
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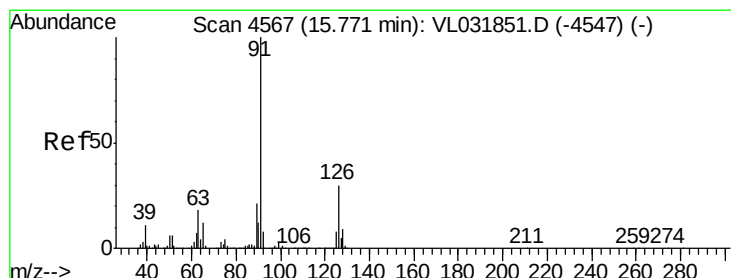
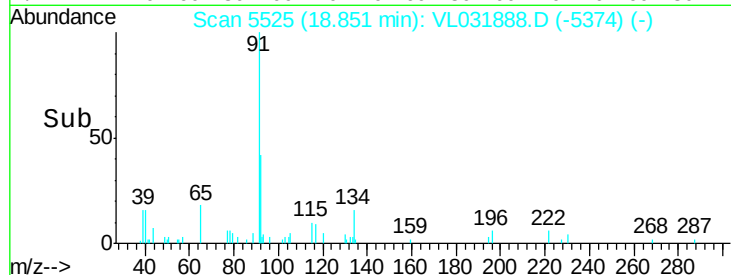
sam
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Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V



Time-->



#71

2-Chlorotoluene

Concen: 0.07 ppbv m

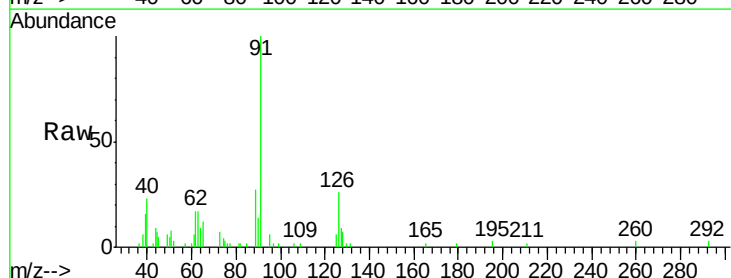
RT: 15.76 min Scan# 4564

Delta R.T. -0.01 min

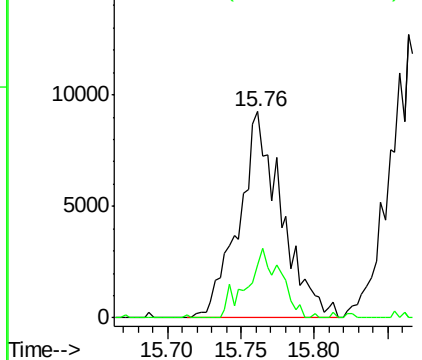
Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

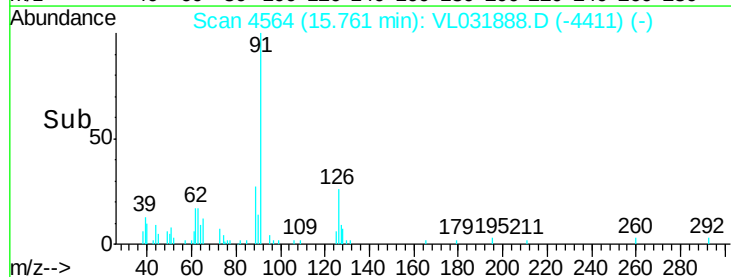
Tgt Ion:	91	Resp:	18614
Ion Ratio	Lower	Upper	
91	100		
126	27.0	11.6	46.2

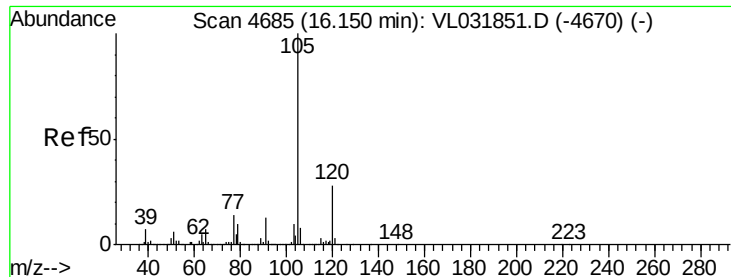


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V



Time-->





#72

4-Ethyltoluene

Concen: 0.06 ppbv m

RT: 16.14 min Scan# 4682

Delta R.T. -0.01 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

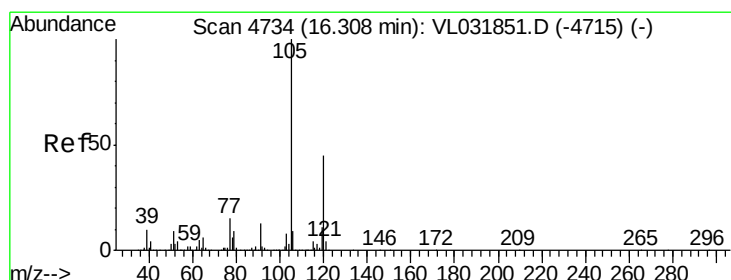
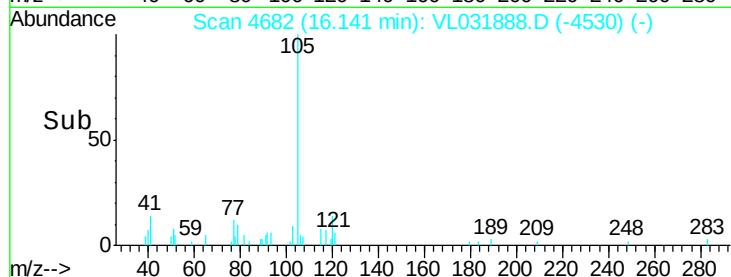
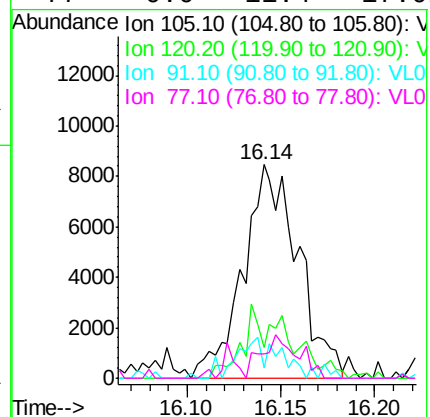
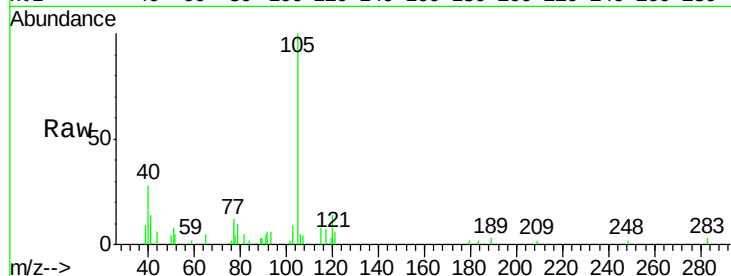
ClientSampleId :

MDL-AIR-03-QT2-2018

Tot Ion:	105	Resp:	17170
Ion Ratio	Lower	Upper	
105	100		
120	29.6	22.7	34.1
91	14.6	10.6	16.0
77	0.0	11.4	17.0#

Manual Integrations
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sam
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#73

1,3,5-Trimethylbenzene

Concen: 0.05 ppbv m

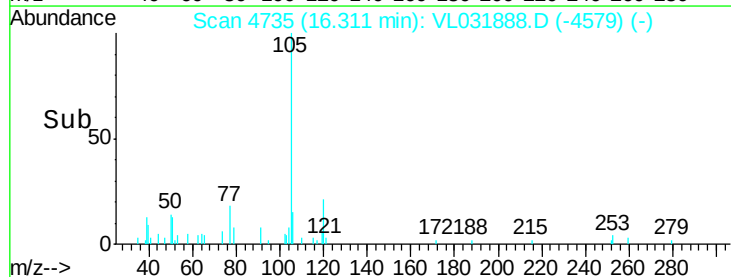
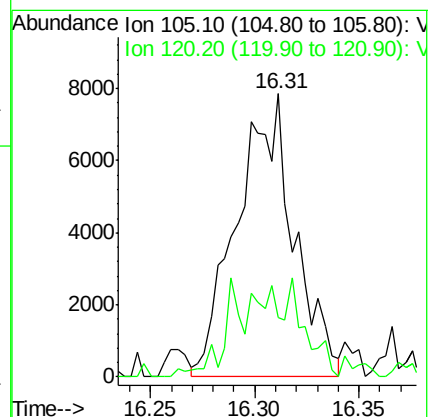
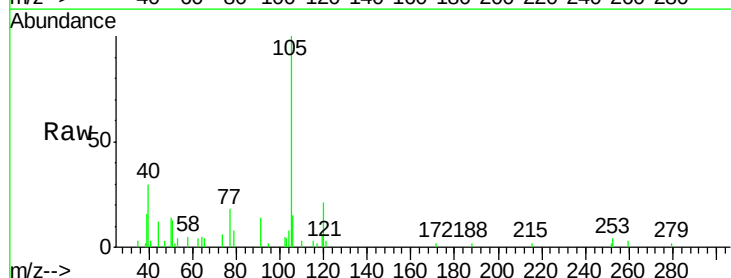
RT: 16.31 min Scan# 4735

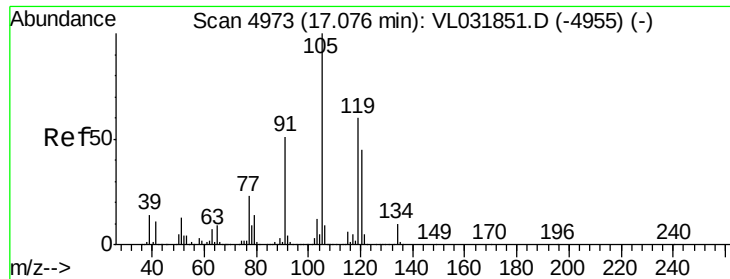
Delta R.T. 0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Tgt Ion:	105	Resp:	14925
Ion Ratio	Lower	Upper	
105	100		
120	21.0	35.3	52.9#





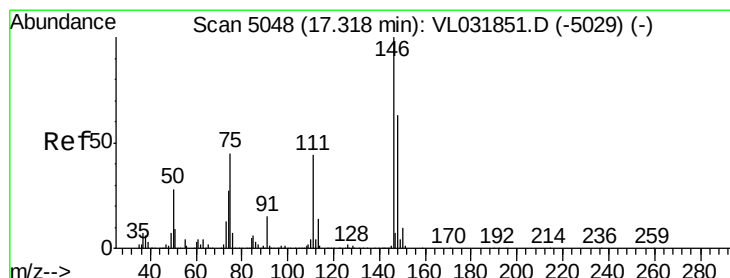
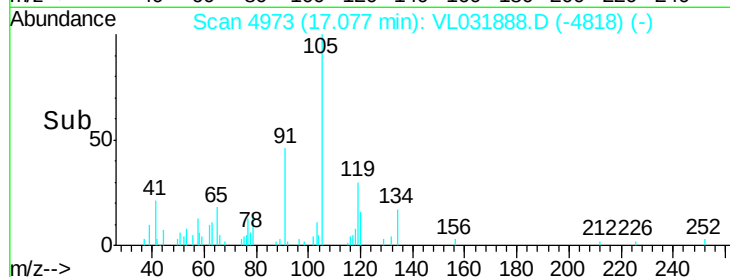
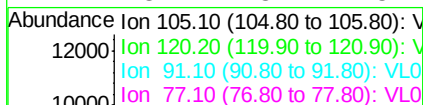
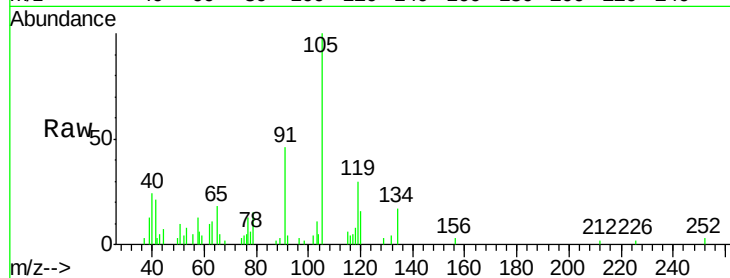
#74
 1,2,4-Trimethylbenzene
 Concen: 0.05 ppbv m
 RT: 17.08 min Scan# 4973
 Delta R.T. -0.00 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.0	55.4#
91	45.7	43.0	64.4
77	13.4	18.7	28.1#

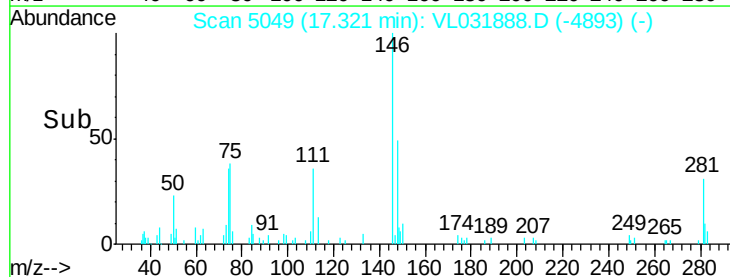
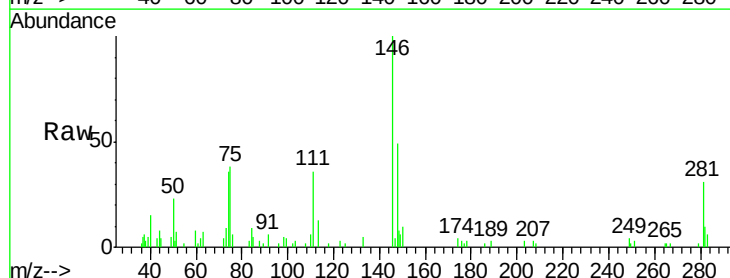
Manual Integrations
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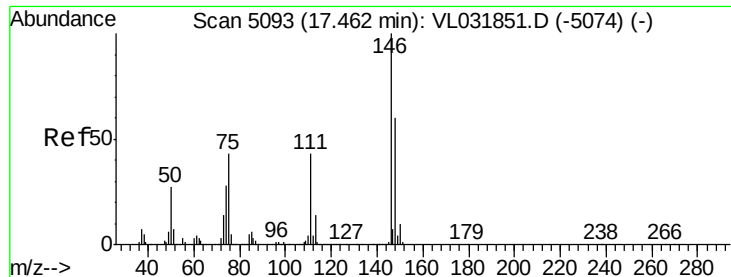
sam
 4/23/2018 12:50:11 PM



#75
 1,3-Dichlorobenzene
 Concen: 0.12 ppbv m
 RT: 17.32 min Scan# 5049
 Delta R.T. 0.00 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.3	23.8	71.4
148	0.0	32.0	96.2#





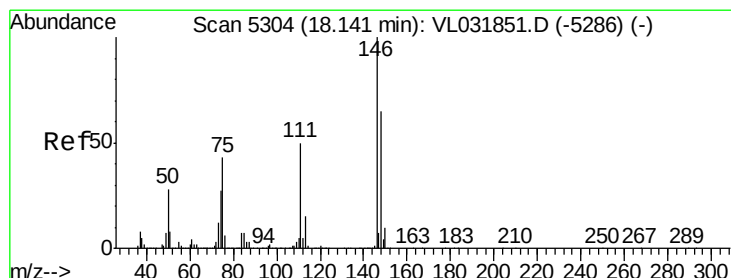
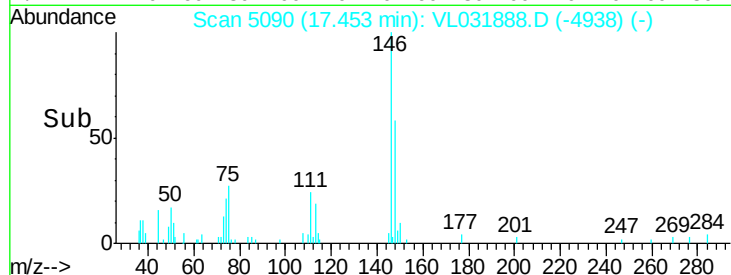
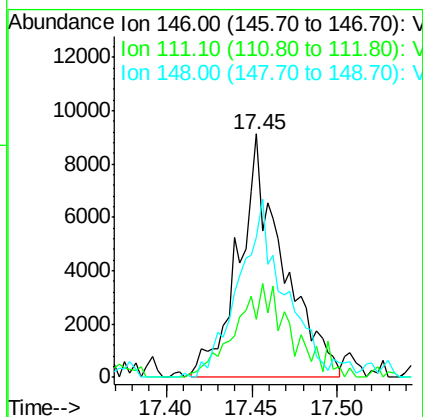
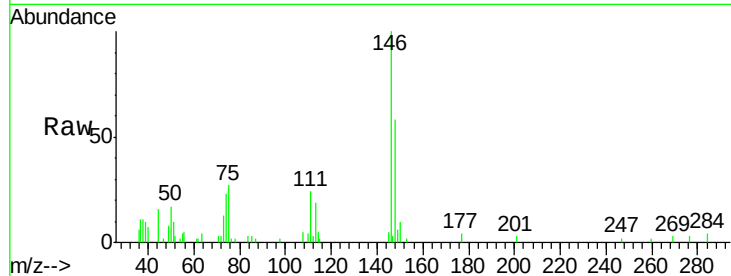
#76
 1,4-Dichlorobenzene
 Concen: 0.09 ppbv m
 RT: 17.45 min Scan# 5090
 Delta R.T. -0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.9	68.7#
148	0.0	32.0	96.0#

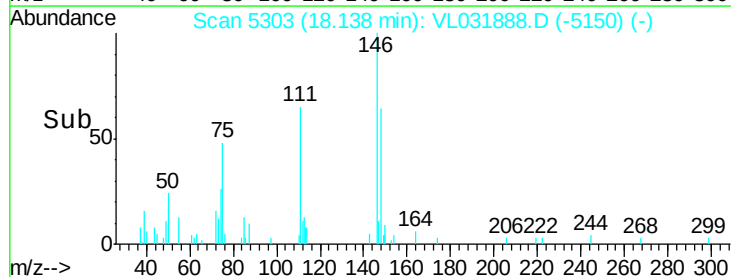
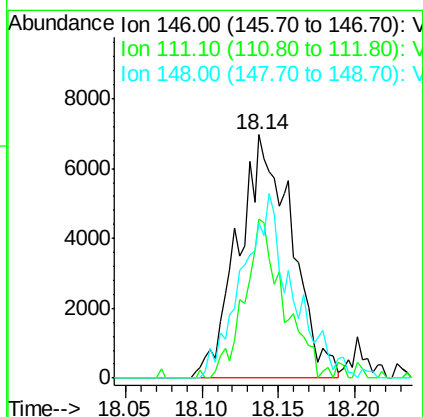
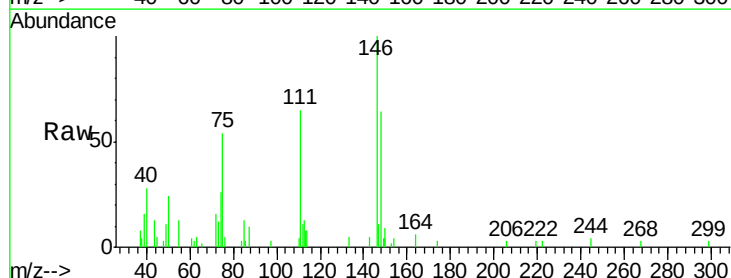
Manual Integrations
 APPROVED

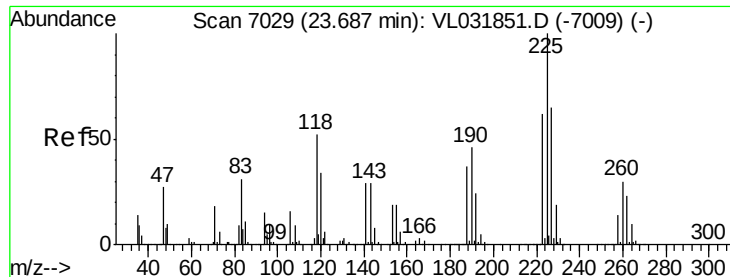
sam
 4/23/2018 12:50:11 PM



#77
 1,2-Dichlorobenzene
 Concen: 0.09 ppbv m
 RT: 18.14 min Scan# 5303
 Delta R.T. -0.01 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.3	72.8
148	70.7	31.8	95.3





#78

Hexachloro-1,3-Butadiene

Concen: 0.16 ppbv m

RT: 23.68 min Scan# 7028

Delta R.T. -0.00 min

Lab File: VL031888.D

Acq: 19 Apr 2018 21:35

Instrument :

MSVOA_L

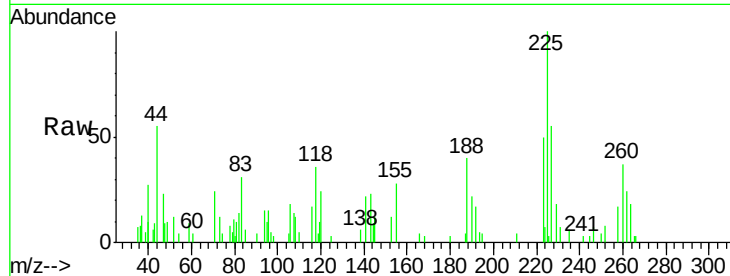
ClientSampleId :

MDL-AIR-03-QT2-2018

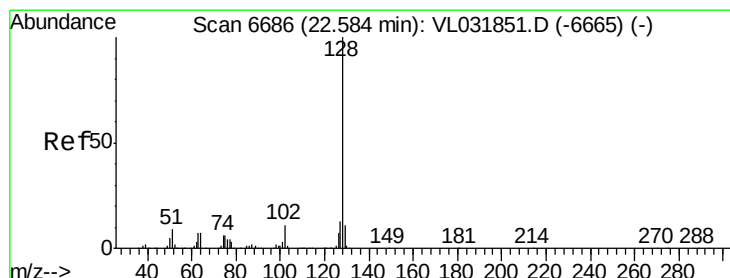
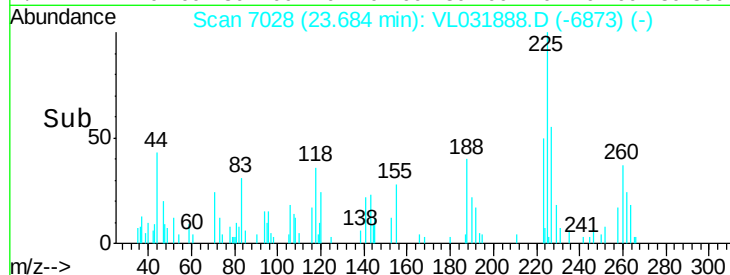
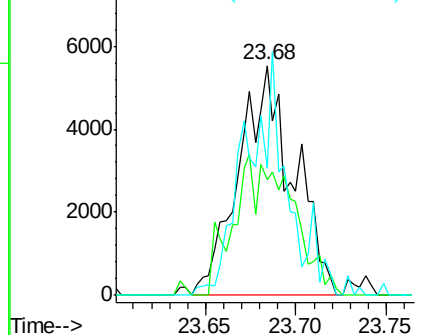
Tot Ion:	225	Resp:	11593
Ion Ratio	Lower	Upper	
225	100		
223	67.4	50.6	76.0
227	0.0	52.2	78.4

Manual Integrations
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sam
4/23/2018 12:50:11 PM



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.05 ppbv m

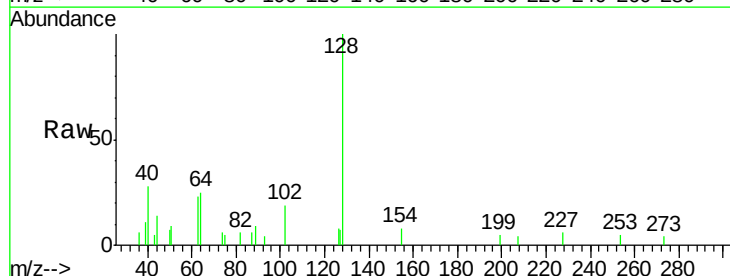
RT: 22.59 min Scan# 6688

Delta R.T. -0.00 min

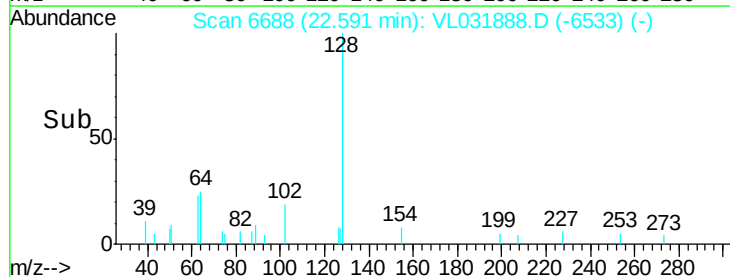
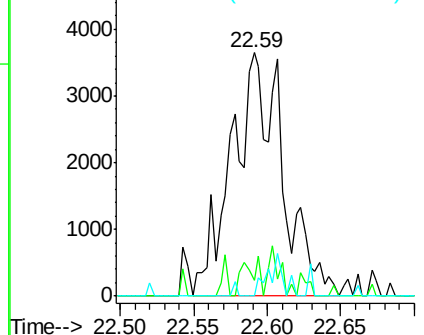
Lab File: VL031888.D

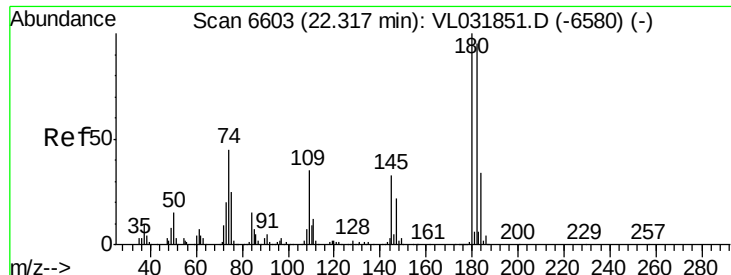
Acq: 19 Apr 2018 21:35

Tgt Ion:	128	Resp:	8779
Ion Ratio	Lower	Upper	
128	100		
127	6.6	10.2	15.4
129	0.0	9.4	14.2



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.07 ppbv m
 RT: 22.31 min Scan# 6602
 Delta R.T. 0.00 min
 Lab File: VL031888.D
 Acq: 19 Apr 2018 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.3	114.5#
184	0.0	24.2	36.2#

Manual Integrations
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