

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033667.D
 Acq On : 6 May 2019 20:27
 Operator : SY/AP
 Sample : K2241-13 0.1PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:07:04 PM

Quant Time: May 07 04:45:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 07 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	910781	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2220289	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2158869	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1848642	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	25967	0.122 ppbv	93
3) Chlorodifluoromethane	3.01	51	14484m	0.110 ppbv	
4) Chloromethane	3.17	50	7934	0.116 ppbv #	78
5) Vinyl Chloride	3.29	62	7272	0.109 ppbv #	81
6) Bromomethane	3.51	94	4378m	0.104 ppbv	
7) Chloroethane	3.60	64	2779m	0.115 ppbv	
8) Dichlorotetrafluoroethane	3.22	85	18778	0.107 ppbv	91
9) Propene	3.04	41	5905m	0.118 ppbv	
10) Heptane	8.25	43	7946m	0.064 ppbv	
11) Trichlorofluoromethane	4.00	101	22199	0.111 ppbv #	81
12) 1,1,2-Trichlorotrifluoroet	4.55	101	15245	0.114 ppbv	95
13) Ethanol	3.67	45	2492m	0.166 ppbv	
14) Bromoethene	3.78	108	5018m	0.095 ppbv	
15) Acetone	3.92	43	18693	0.138 ppbv	92
16) 1,3-Butadiene	3.37	39	5711	0.098 ppbv #	78
17) tert-Butyl alcohol	4.39	59	11510m	0.112 ppbv	
18) 1,1-Dichloroethene	4.35	96	5651m	0.098 ppbv	
19) Isopropyl Alcohol	4.05	45	10042m	0.121 ppbv	
20) Methylene Chloride	4.40	84	7854m	0.153 ppbv	
21) Allyl Chloride	4.47	41	8471m	0.103 ppbv	
22) trans-1,2-Dichloroethene	4.96	96	6435	0.111 ppbv	91
23) Vinyl Acetate	5.16	43	14835m	0.084 ppbv	
24) 1,1-Dichloroethane	5.09	63	12960m	0.097 ppbv	
25) Ethyl Acetate	5.78	43	21802	0.099 ppbv	99
26) Hexane	5.77	57	8859	0.093 ppbv #	83
27) Carbon Disulfide	4.62	76	10723m	0.083 ppbv	
28) Methyl tert-Butyl Ether	5.13	73	11145m	0.070 ppbv	
29) Chloroform	5.84	83	18663	0.110 ppbv	98
30) Cyclohexane	7.24	84	3741m	0.047 ppbv	
31) cis-1,2-Dichloroethene	5.64	61	6748	0.072 ppbv #	79
32) 1,1,1-Trichloroethane	6.62	97	17895m	0.102 ppbv	
34) 2-Butanone	5.35	43	11104m	0.078 ppbv	
35) Carbon Tetrachloride	7.13	117	18914m	0.104 ppbv	
36) Benzene	6.99	78	14152m	0.071 ppbv	
37) 1,2-Dichloroethane	6.41	62	13277	0.096 ppbv	98
38) Trichloroethene	7.95	130	6374m	0.087 ppbv	
39) 1,2-Dichloropropane	7.73	63	7740m	0.104 ppbv	
40) 1,4-Dioxane	8.01	88	1046m	0.035 ppbv	
41) Tetrahydrofuran	6.17	42	4874m	0.066 ppbv	
42) Bromodichloromethane	7.91	83	16936m	0.094 ppbv	
43) Methyl Methacrylate	8.14	69	4509m	0.060 ppbv	

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 LOD-MDL-AIR-01-QT2-2019

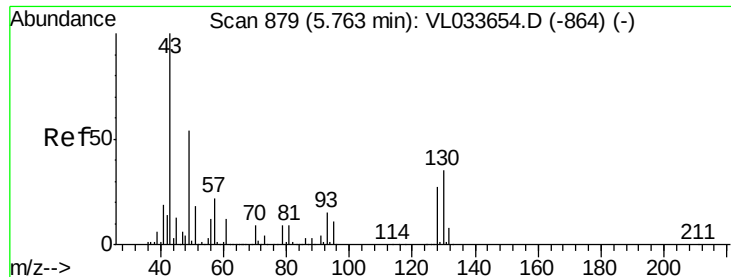
Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:07:04 PM

Quant Time: May 07 04:45:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	19288m	0.057	ppbv	
45) t-1,3-Dichloropropene	9.41	75	6078m	0.066	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	6668m	0.058	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	8936m	0.105	ppbv	
48) Dibromochloromethane	10.45	129	9075m	0.063	ppbv	
49) Bromoform	13.18	173	9009m	0.072	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	15640m	0.073	ppbv	
51) 2-Hexanone	10.30	43	7891m	0.047	ppbv	
52) Tetrachloroethene	11.36	164	6716m	0.095	ppbv	
53) Toluene	9.94	91	11192m	0.052	ppbv	
54) 1,2-Dibromoethane	10.75	107	9425m	0.073	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.28	131	10247m	0.103	ppbv	
57) Chlorobenzene	12.30	112	19325	0.109	ppbv	# 76
58) Ethyl Benzene	12.86	91	17310m	0.061	ppbv	
59) m/p-Xylene	13.14	91	27467m	0.111	ppbv	
60) o-Xylene	13.85	91	14375m	0.057	ppbv	
61) Styrene	13.67	104	8546m	0.051	ppbv	
62) Isopropylbenzene	14.82	105	22475	0.066	ppbv	# 73
63) 1,1,2,2-Tetrachloroethane	13.83	83	19549m	0.107	ppbv	
64) n-propylbenzene	15.72	120	2543m	0.029	ppbv	
65) tert-Butylbenzene	16.91	119	15339m	0.049	ppbv	
66) Benzyl Chloride	17.15	91	10234m	0.072	ppbv	
67) sec-Butylbenzene	17.45	105	25405m	0.058	ppbv	
69) p-Isopropyltoluene	17.81	119	15892m	0.044	ppbv	
70) n-Butylbenzene	18.70	91	20470m	0.053	ppbv	
71) 2-Chlorotoluene	15.62	91	15169m	0.060	ppbv	
72) 4-Ethyltoluene	15.99	105	14446m	0.049	ppbv	
73) 1,3,5-Trimethylbenzene	16.15	105	14316m	0.050	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	15420m	0.049	ppbv	
75) 1,3-Dichlorobenzene	17.16	146	22879m	0.119	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	15830m	0.087	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	12382m	0.070	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	16759m	0.119	ppbv	
79) Naphthalene	22.42	128	15404m	0.053	ppbv	
80) Naphthalene, 2-methyl-	25.13	142	4771	0.044	ppbv	97
81) 1,2,4-Trichlorobenzene	22.12	180	12192m	0.073	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 49 Resp: 910781

Ion Ratio Lower Upper

49 100

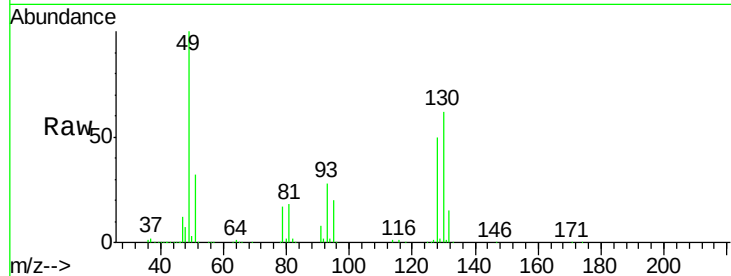
128 49.4 24.8 74.3

130 63.7 32.1 96.5

Manual Integrations
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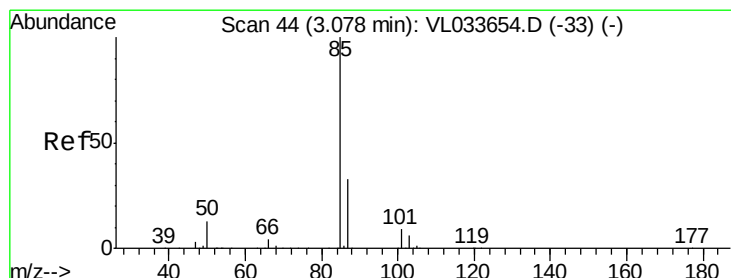
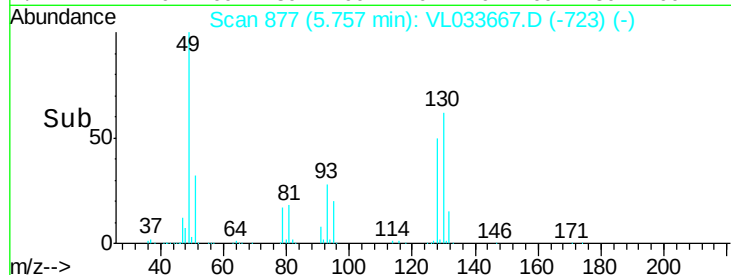
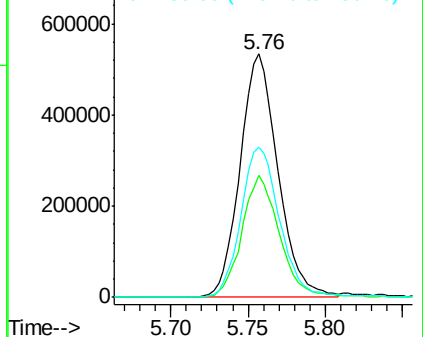
5/8/2019 12:07:04 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.122 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.01 min

Lab File: VL033667.D

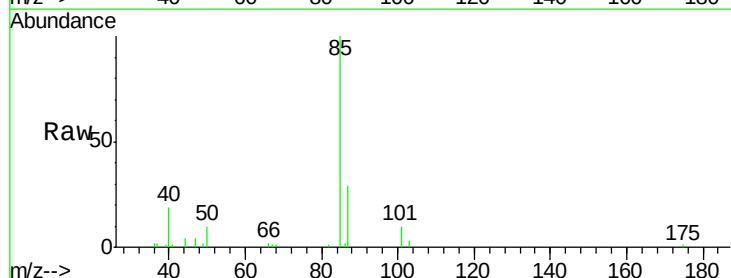
Acq: 6 May 2019 20:27

Tgt Ion: 85 Resp: 25967

Ion Ratio Lower Upper

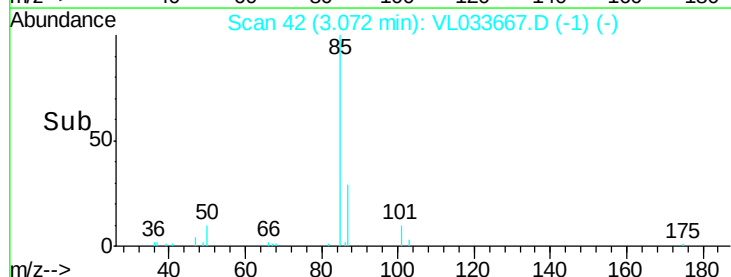
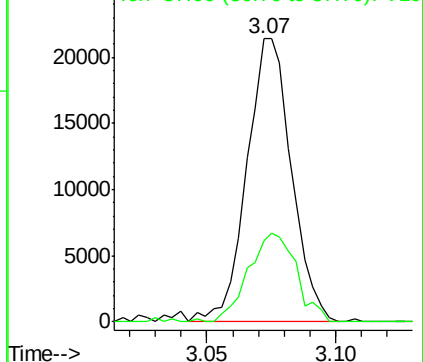
85 100

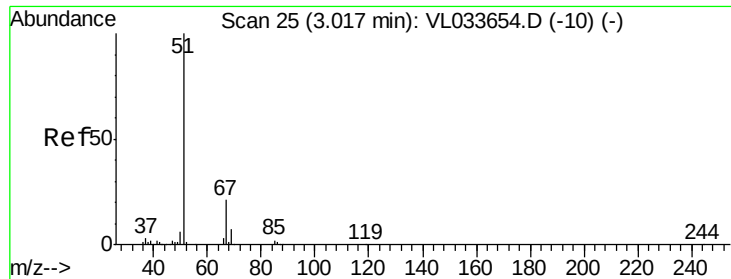
87 28.7 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.110 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 51 Resp: 14484

Ion Ratio Lower Upper

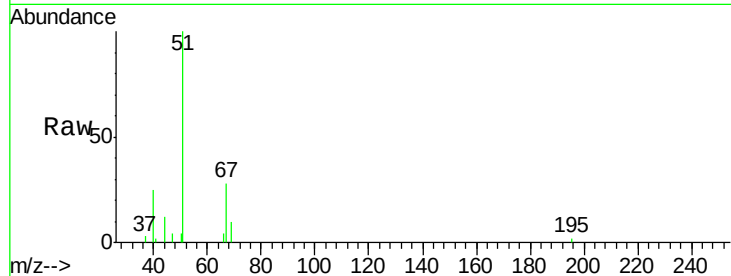
51 100

67 18.6 15.7 23.5

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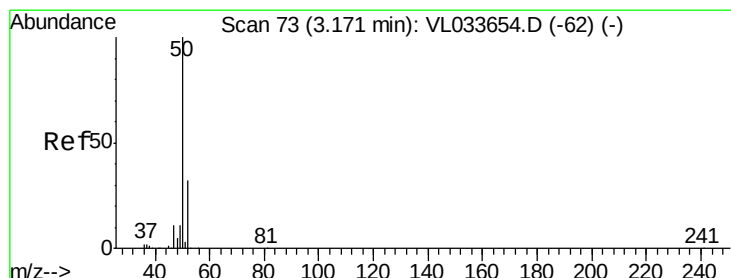
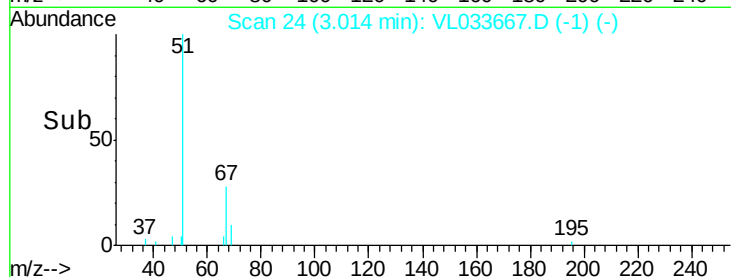
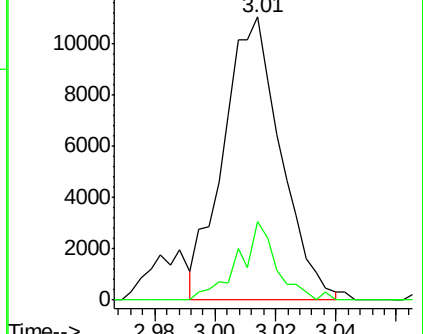
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.116 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033667.D

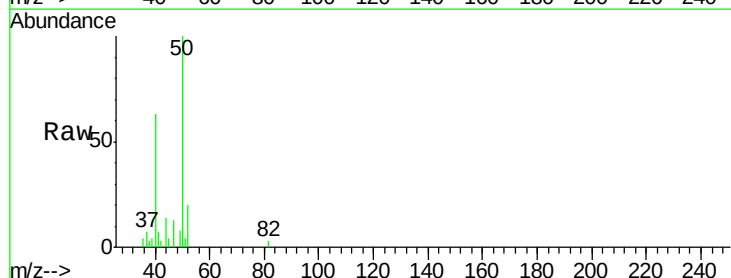
Acq: 6 May 2019 20:27

Tgt Ion: 50 Resp: 7934

Ion Ratio Lower Upper

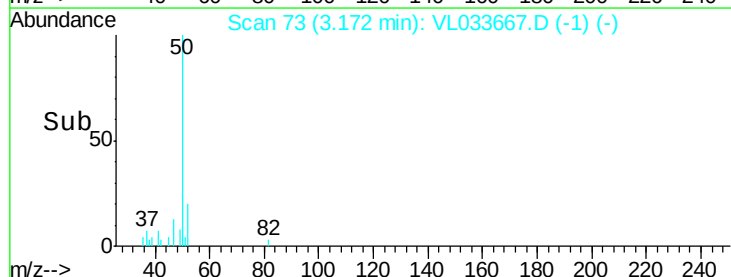
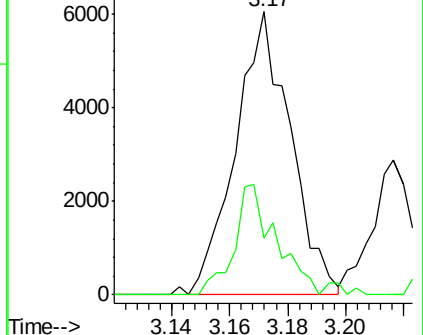
50 100

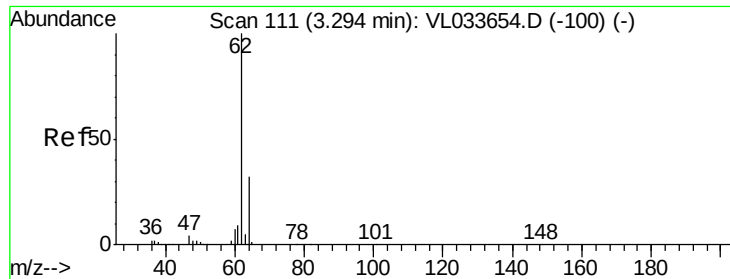
52 20.0 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.109 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 62 Resp: 7272

Ion Ratio Lower Upper

62 100

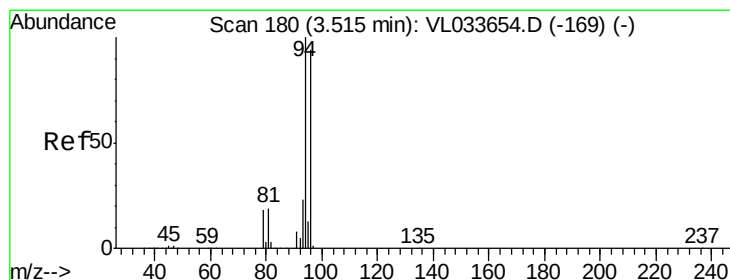
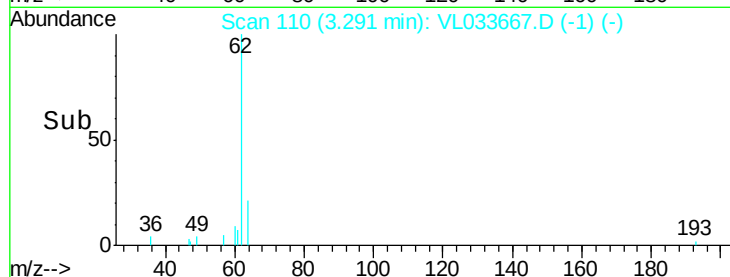
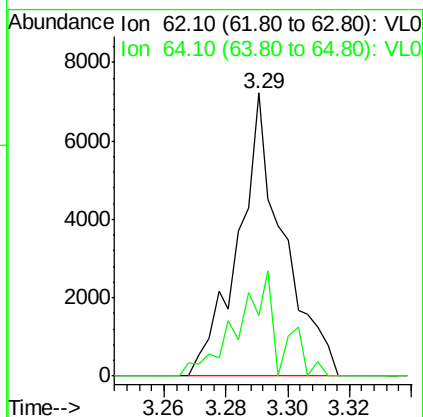
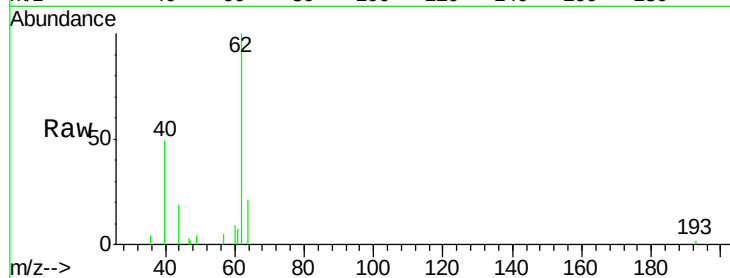
64 21.5 25.6 38.4#

Manual Integrations

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#6

Bromomethane

Concen: 0.104 ppbv m

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033667.D

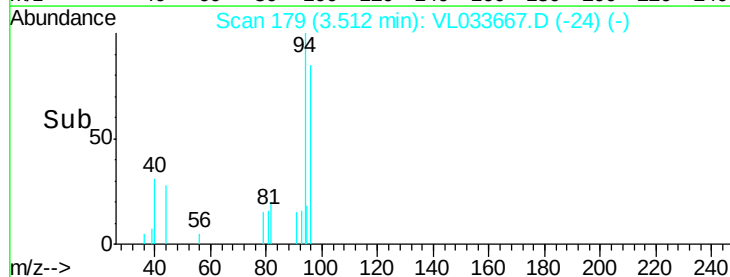
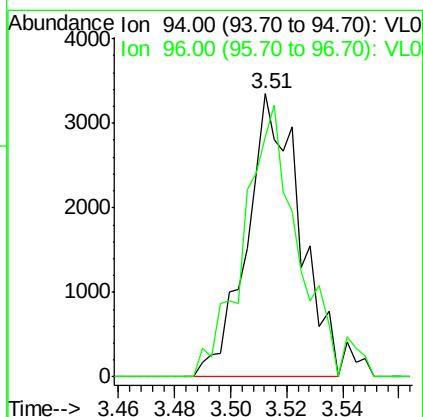
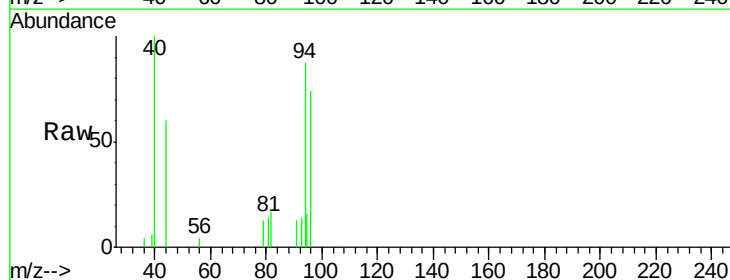
Acq: 6 May 2019 20:27

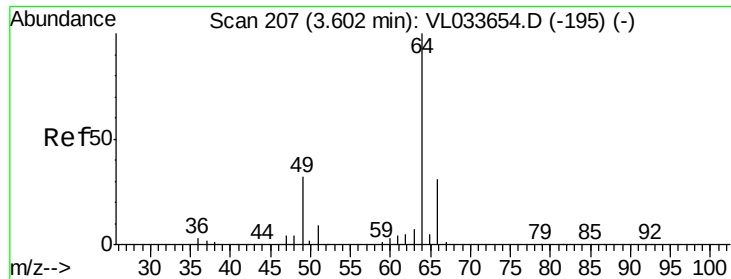
Tgt Ion: 94 Resp: 4378

Ion Ratio Lower Upper

94 100

96 84.6 75.2 112.8





#7

Chloroethane

Concen: 0.115 ppbv m

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 64 Resp: 2779

Ion Ratio Lower Upper

64 100

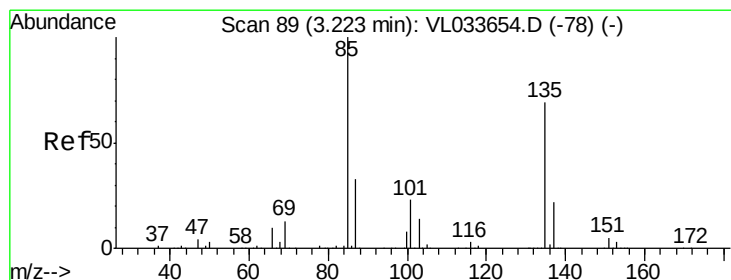
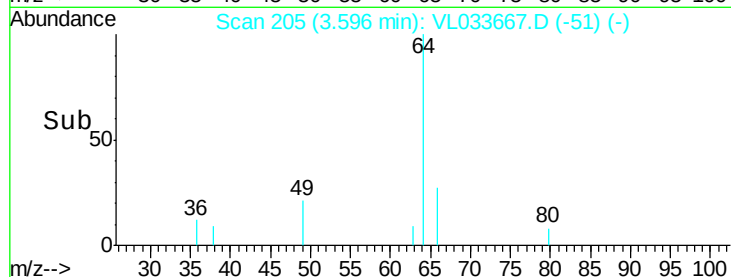
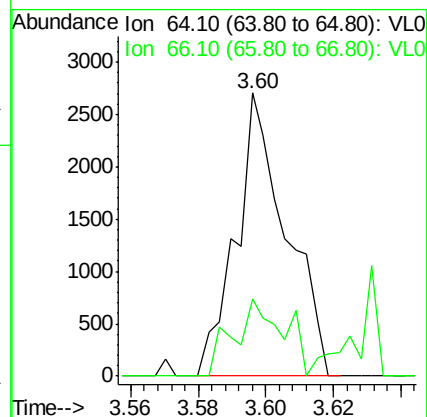
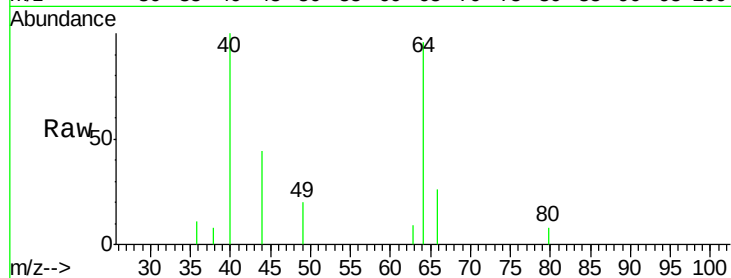
66 27.3 25.1 37.7

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.107 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033667.D

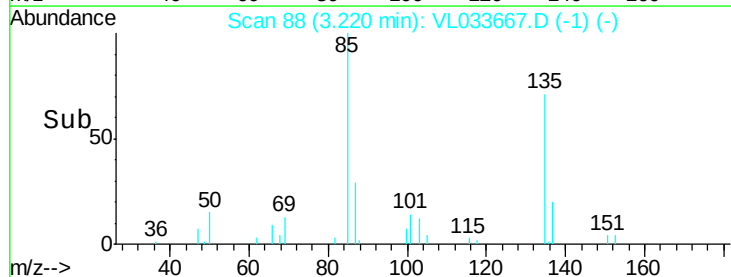
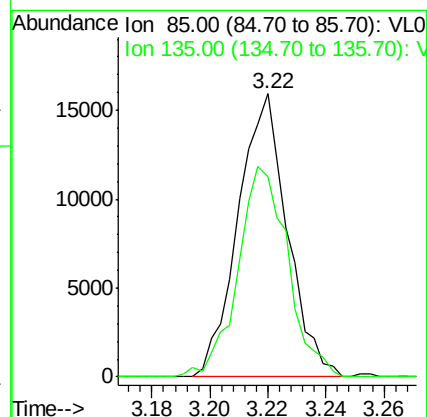
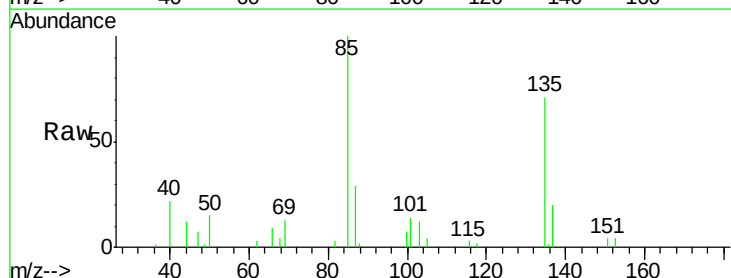
Acq: 6 May 2019 20:27

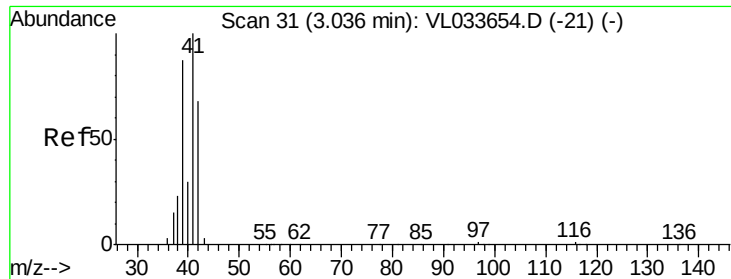
Tgt Ion: 85 Resp: 18778

Ion Ratio Lower Upper

85 100

135 75.3 54.3 81.5





#9

Propene

Concen: 0.118 ppbv m

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 41 Resp: 5905

Ion Ratio Lower Upper

41 100

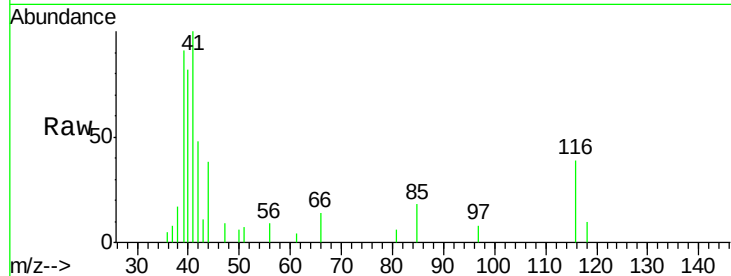
42 0.0 55.6 83.4#

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.04

5000

4000

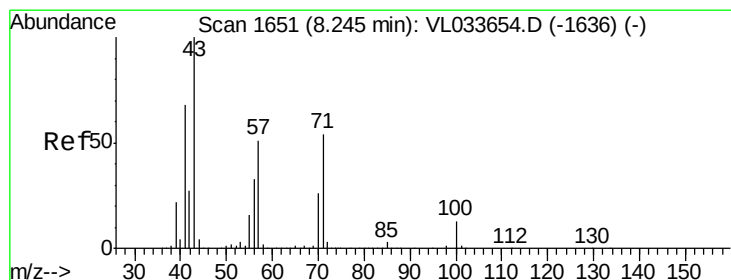
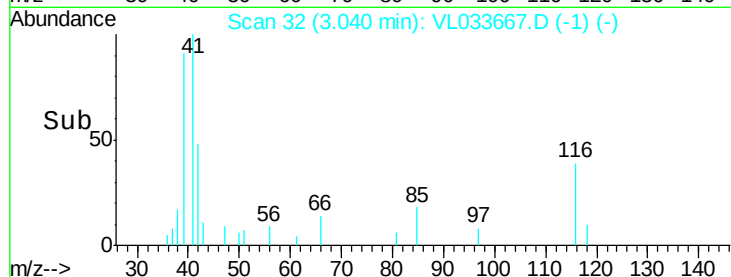
3000

2000

1000

0

Time-->



#10

Heptane

Concen: 0.064 ppbv m

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033667.D

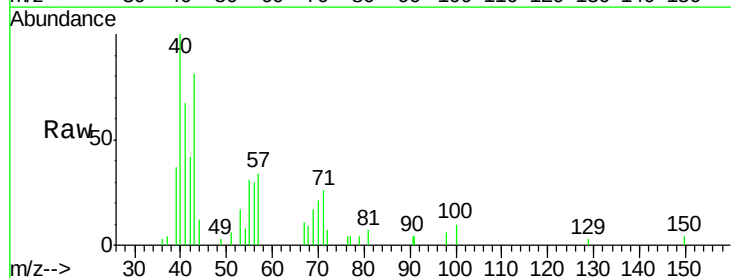
Acq: 6 May 2019 20:27

Tgt Ion: 43 Resp: 7946

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.25

4000

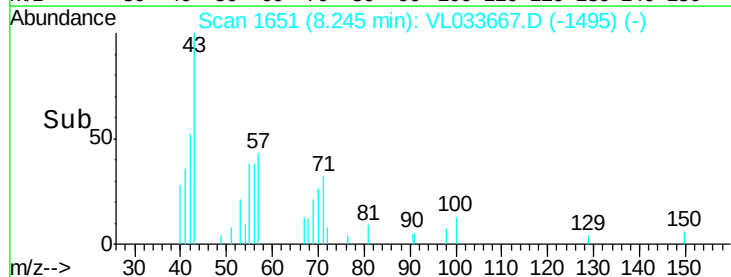
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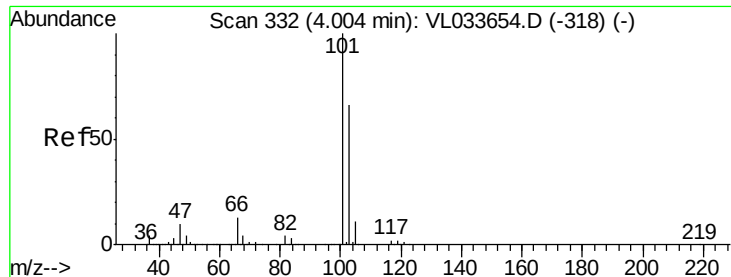
2000

1000

0

Time-->





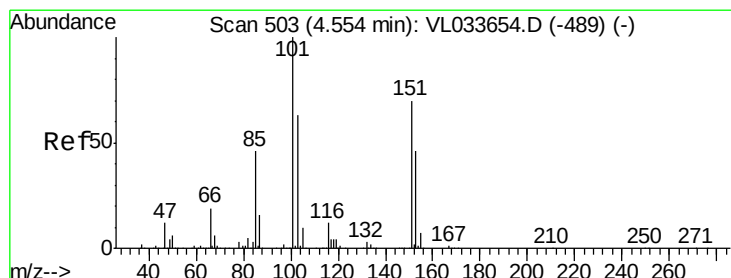
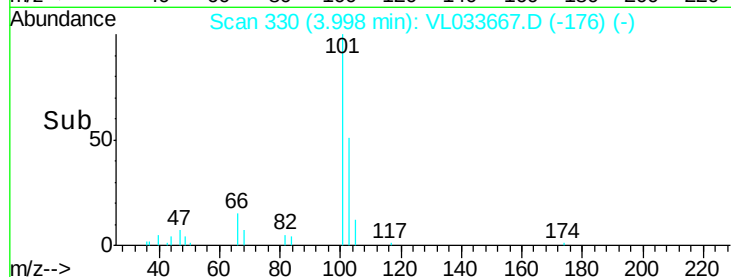
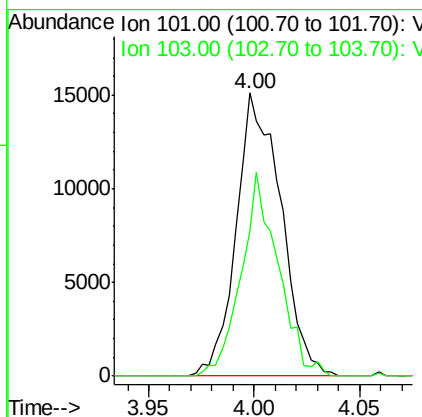
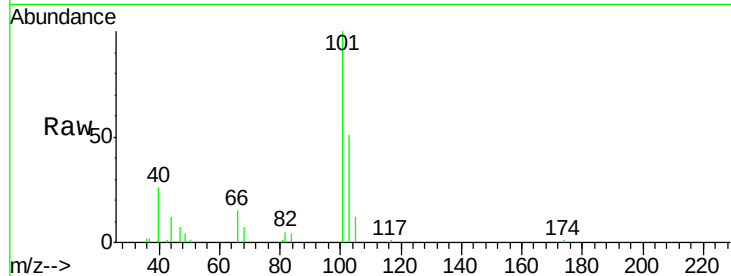
#11
 Trichlorofluoromethane
 Concen: 0.111 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.01 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion:101 Resp: 22199
 Ion Ratio Lower Upper
 101 100
 103 51.1 52.7 79.1#

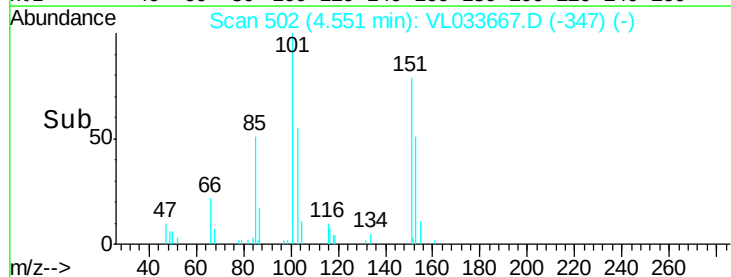
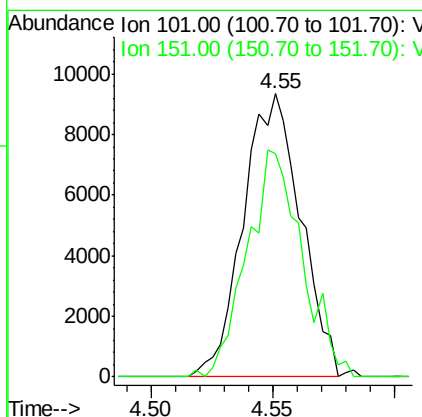
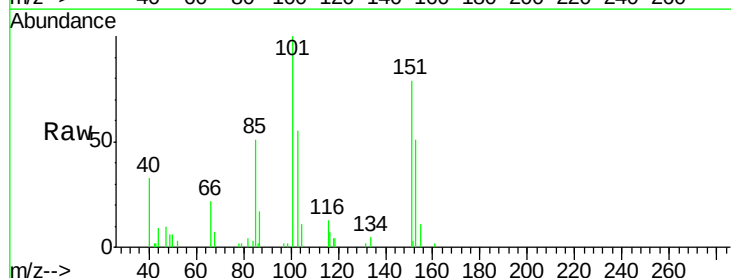
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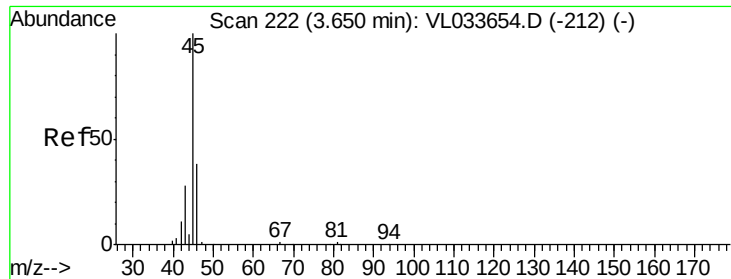
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.114 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Tgt Ion:101 Resp: 15245
 Ion Ratio Lower Upper
 101 100
 151 76.8 58.0 87.0





#13

Ethanol

Concen: 0.166 ppbv m

RT: 3.67 min Scan# 228

Delta R.T. 0.02 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 45 Resp: 2492

Ion Ratio Lower Upper

45 100

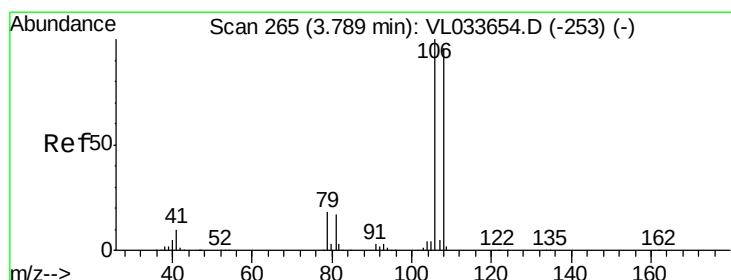
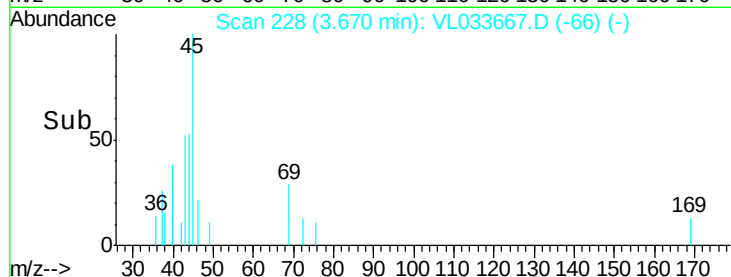
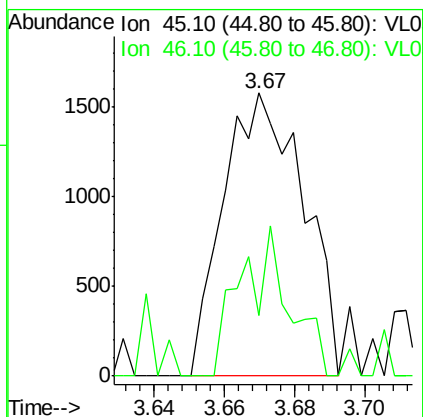
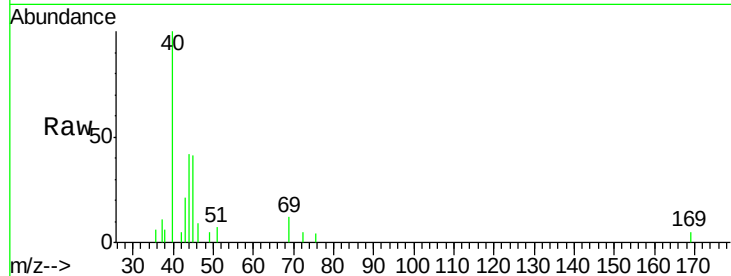
46 36.8 14.9 59.7

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#14

Bromoethene

Concen: 0.095 ppbv m

RT: 3.78 min Scan# 263

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

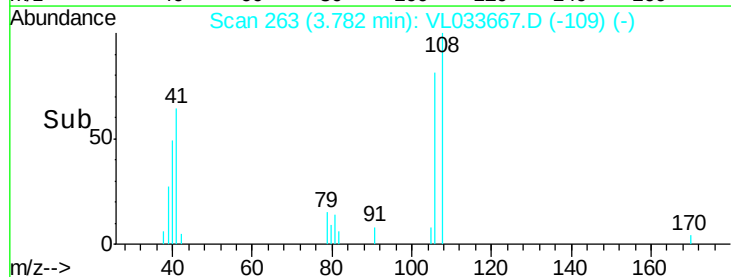
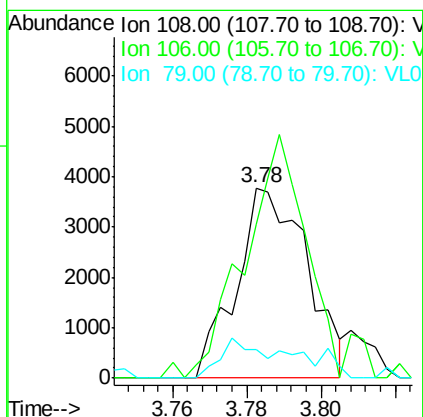
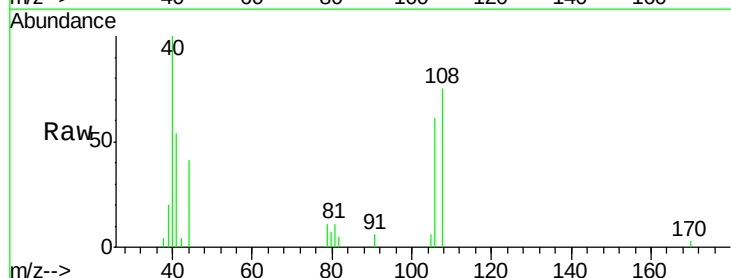
Tgt Ion: 108 Resp: 5018

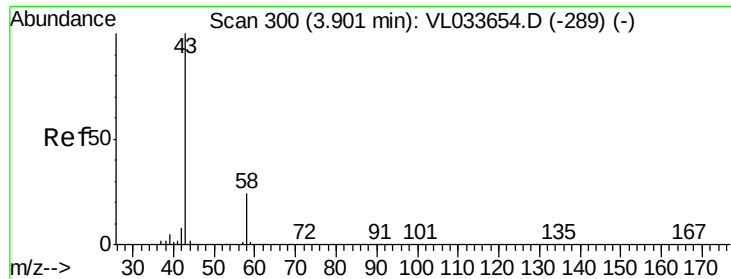
Ion Ratio Lower Upper

108 100

106 0.0 85.7 128.5#

79 23.4 15.2 22.8#





#15

Acetone

Concen: 0.138 ppbv

RT: 3.92 min Scan# 307

Delta R.T. 0.02 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 43 Resp: 18693

Ion Ratio Lower Upper

43 100

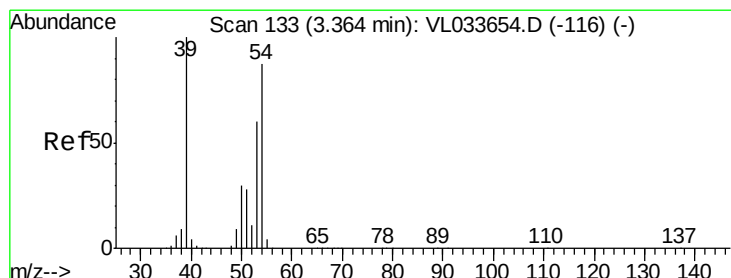
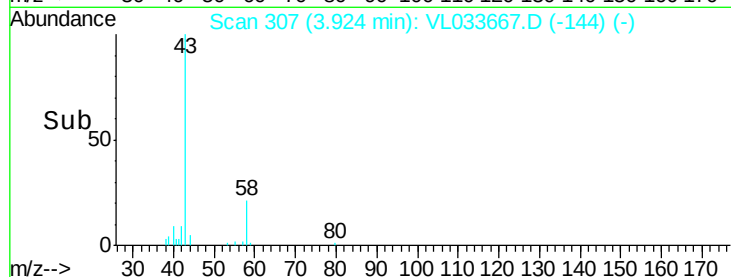
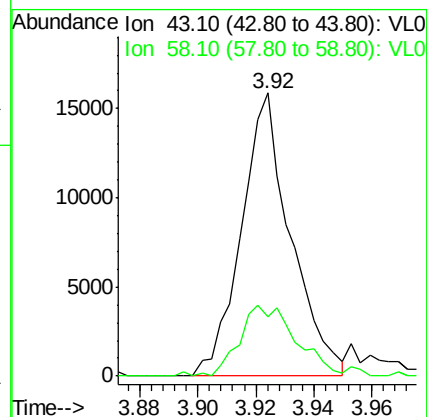
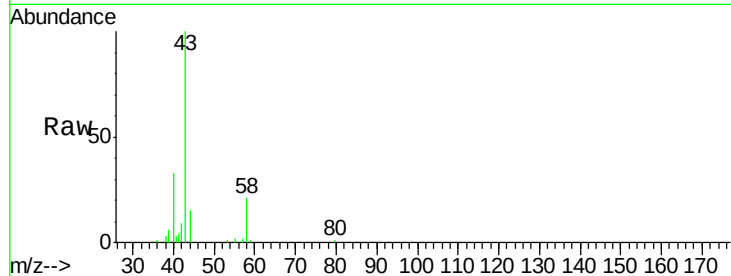
58 30.0 20.9 31.3

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#16

1,3-Butadiene

Concen: 0.098 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL033667.D

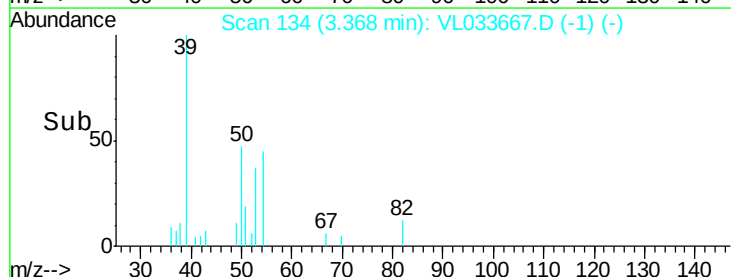
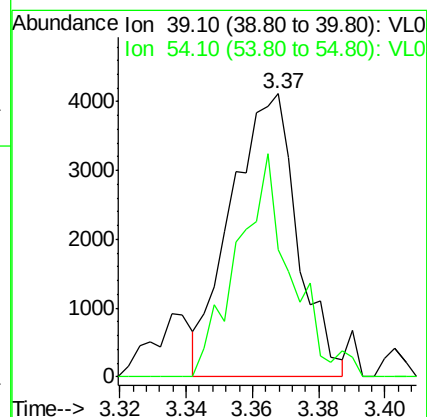
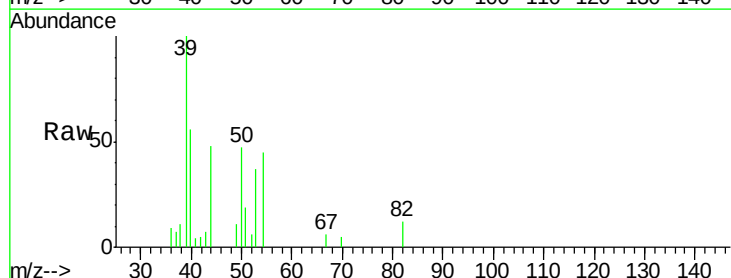
Acq: 6 May 2019 20:27

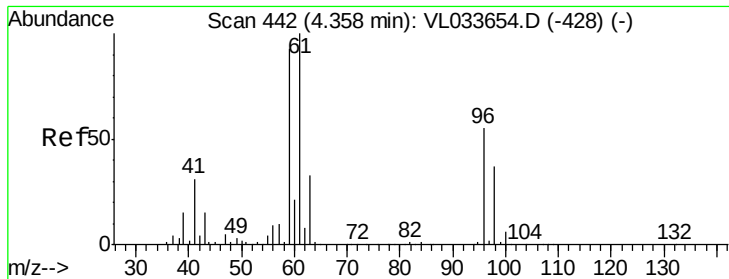
Tgt Ion: 39 Resp: 5711

Ion Ratio Lower Upper

39 100

54 63.9 67.0 100.4#





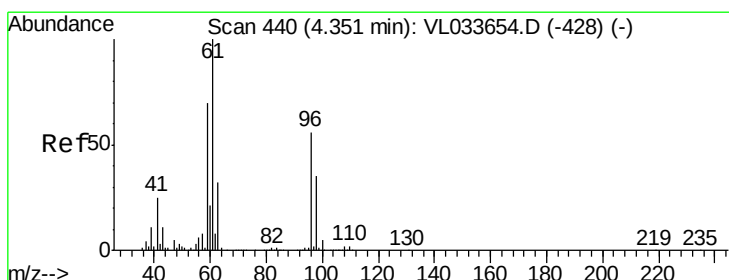
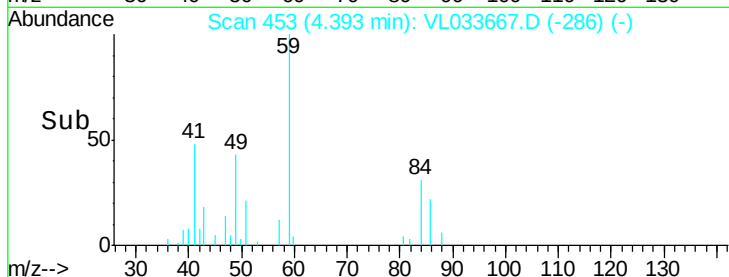
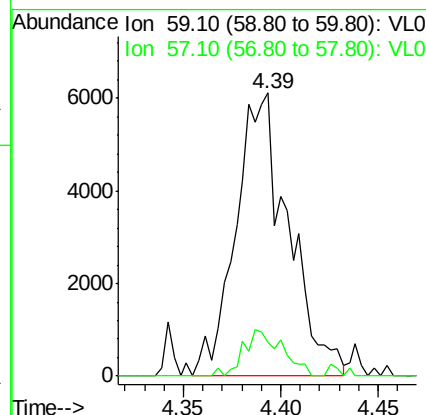
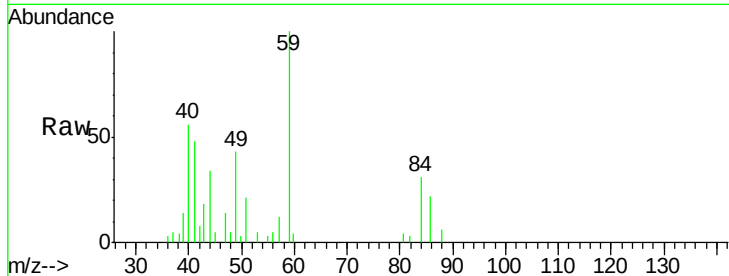
#17
 tert-Butyl alcohol
 Concen: 0.112 ppbv m
 RT: 4.39 min Scan# 453
 Delta R.T. 0.04 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion: 59 Resp: 11510
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

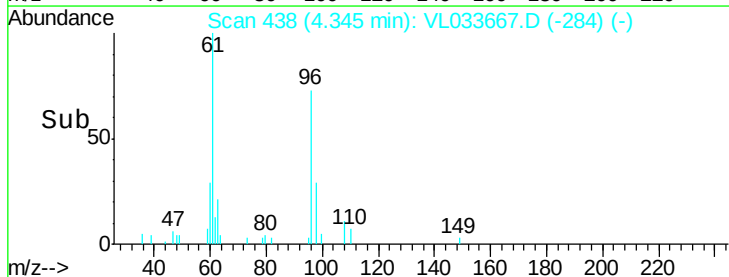
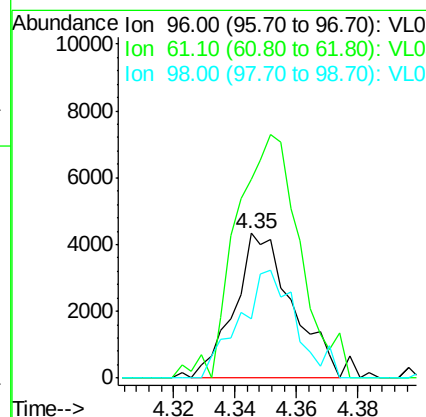
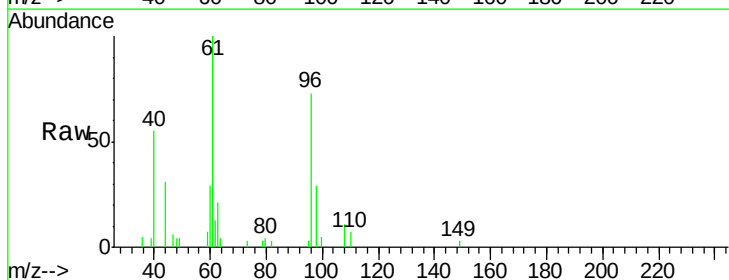
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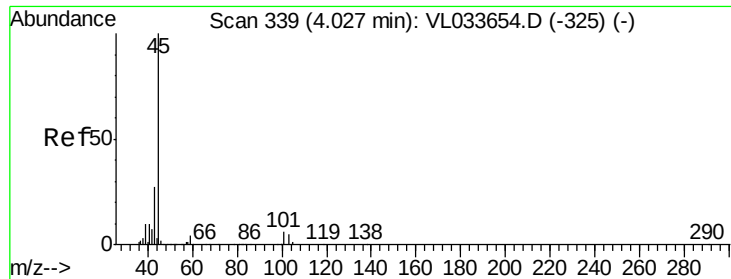
MMDadoda
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#18
 1,1-Dichloroethene
 Concen: 0.098 ppbv m
 RT: 4.35 min Scan# 438
 Delta R.T. -0.01 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Tgt Ion: 96 Resp: 5651
 Ion Ratio Lower Upper
 96 100
 61 137.6 143.4 215.0#
 98 40.6 50.4 75.6#





#19

Isopropyl Alcohol

Concen: 0.121 ppbv m

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 45 Resp: 10042

Ion Ratio Lower Upper

45 100

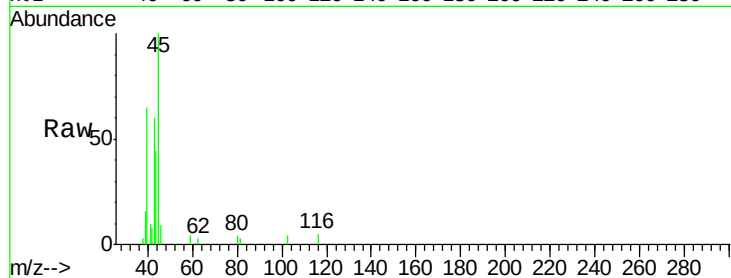
58 3.8 2.0 3.0#

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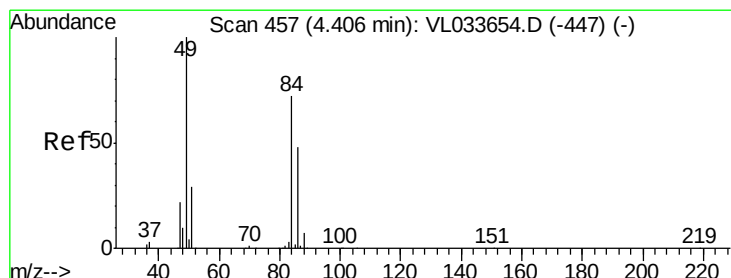
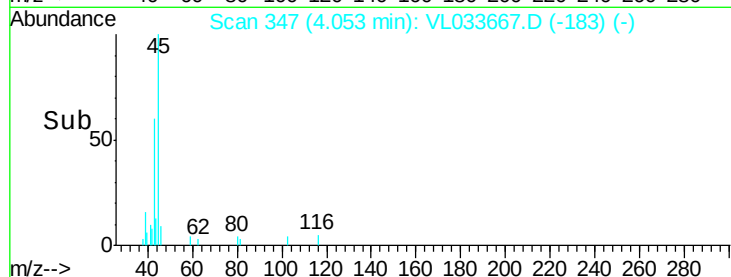
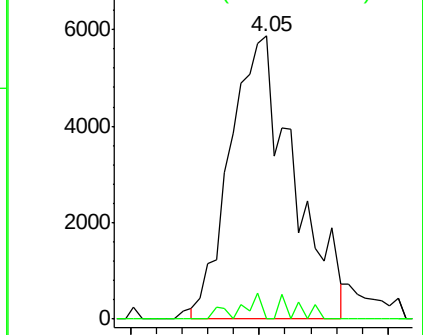
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.153 ppbv m

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion: 84 Resp: 7854

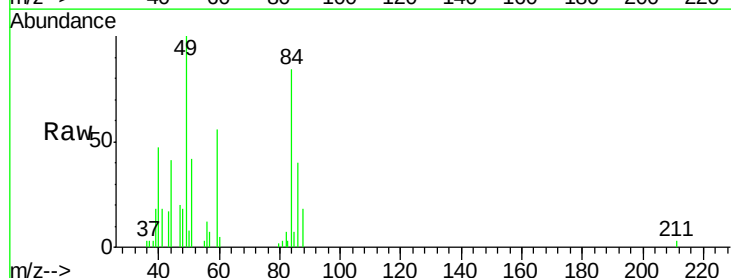
Ion Ratio Lower Upper

84 100

49 119.3 111.8 167.6

51 49.7 32.3 48.5#

86 47.9 53.9 80.9#

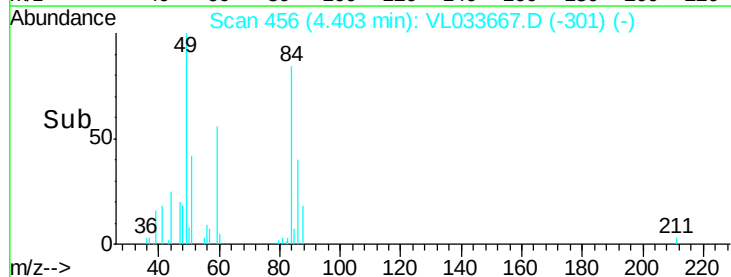
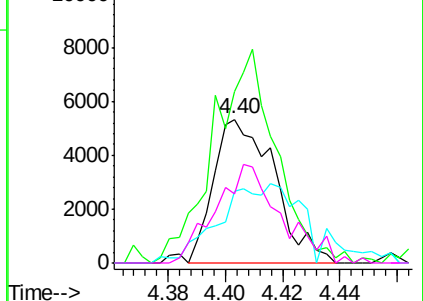


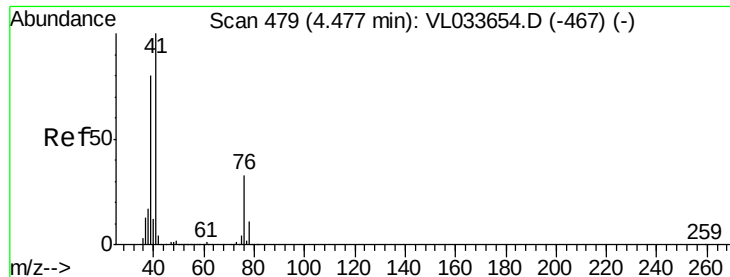
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.103 ppbv m

RT: 4.47 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

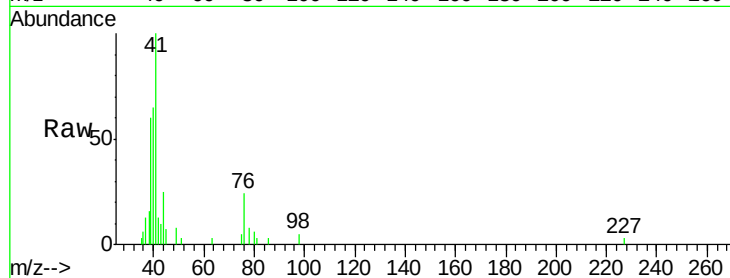
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

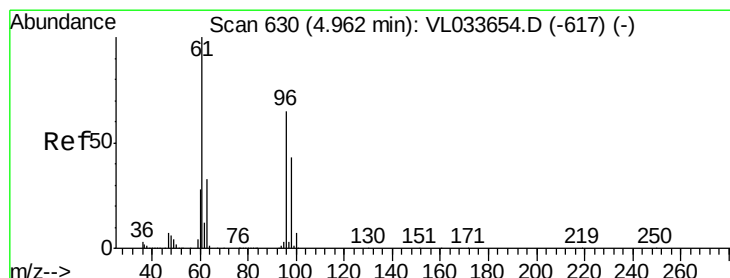
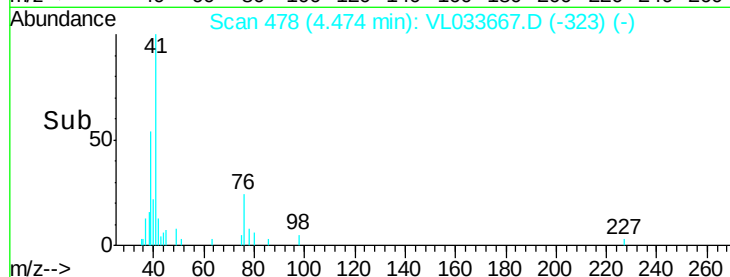
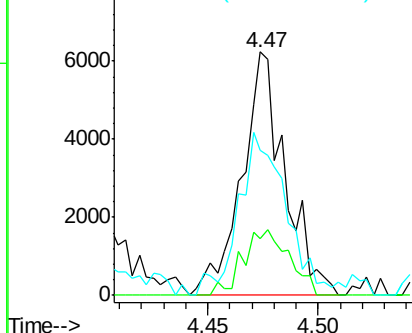
Tot Ion:	41	Resp:	8471
Ion	Ratio	Lower	Upper
41	100		
76	29.0	26.0	39.0
39	74.7	64.4	96.6

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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.111 ppbv

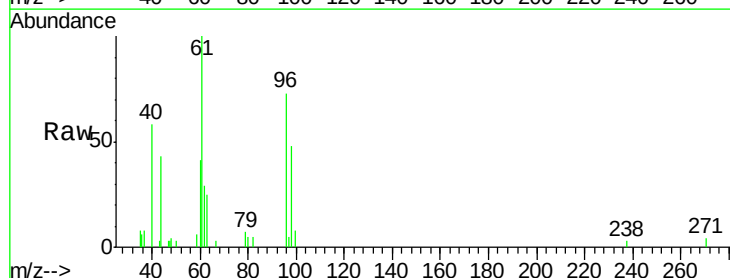
RT: 4.96 min Scan# 630

Delta R.T. 0.00 min

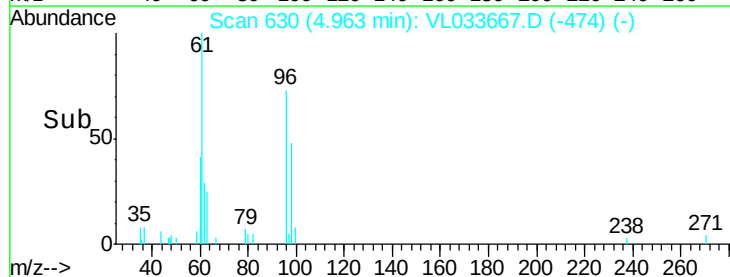
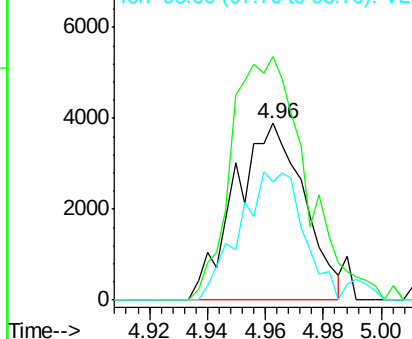
Lab File: VL033667.D

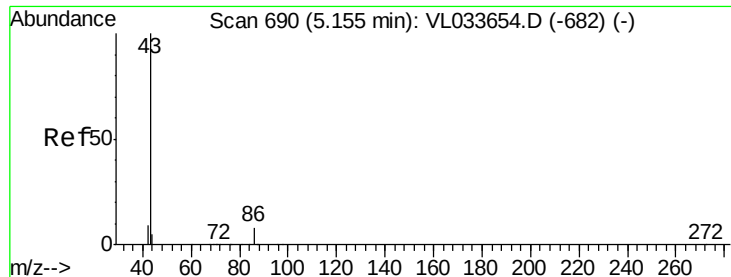
Acq: 6 May 2019 20:27

Tgt Ion:	96	Resp:	6435
Ion	Ratio	Lower	Upper
96	100		
61	137.7	123.1	184.7
98	66.6	52.6	79.0



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.084 ppbv m

RT: 5.16 min Scan# 692

Delta R.T. 0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

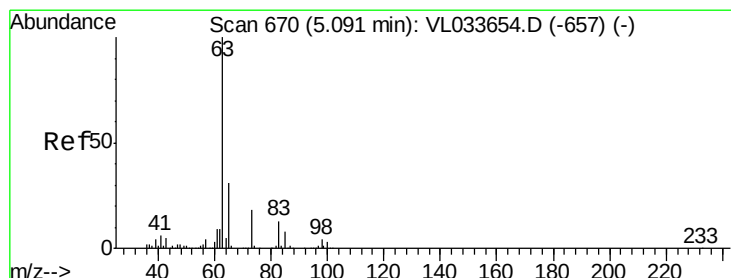
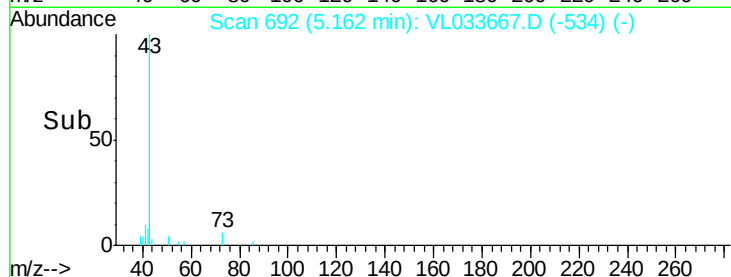
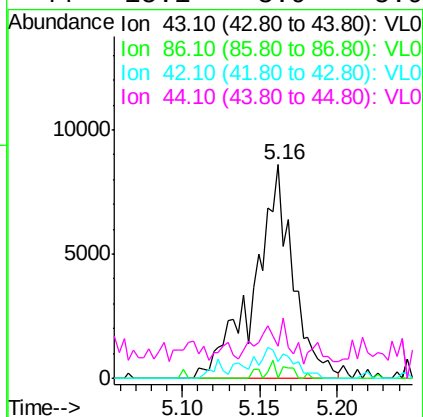
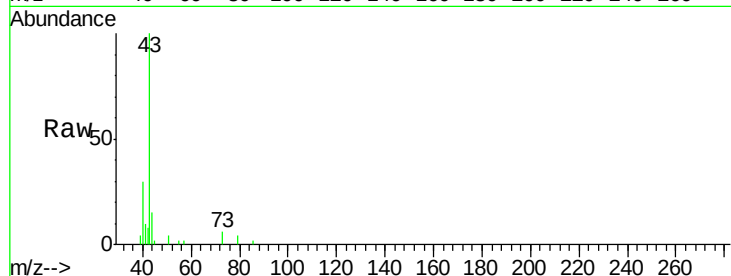
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		14835		
86	0.0	6.0	9.0#		
42	8.0	8.0	12.0#		
44	15.1	3.9	5.9#		

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#24

1,1-Dichloroethane

Concen: 0.097 ppbv m

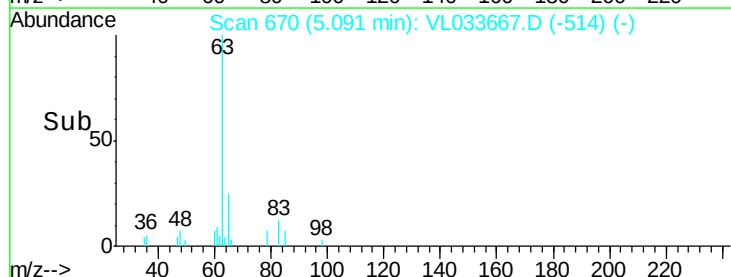
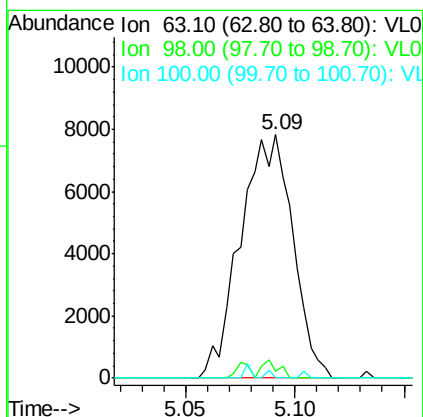
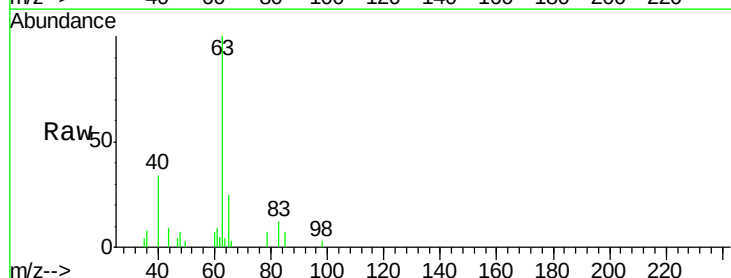
RT: 5.09 min Scan# 670

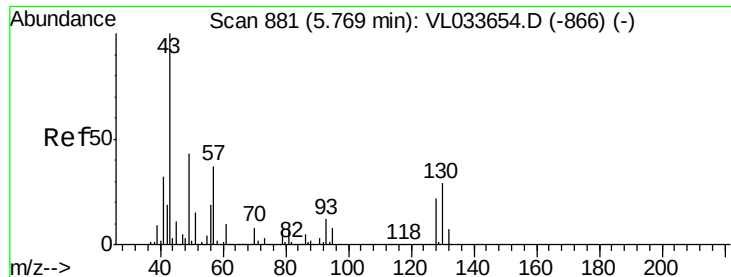
Delta R.T. 0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		12960		
98	2.8	2.1	6.2		
100	0.0	1.5	4.4#		





#25

Ethyl Acetate

Concen: 0.099 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

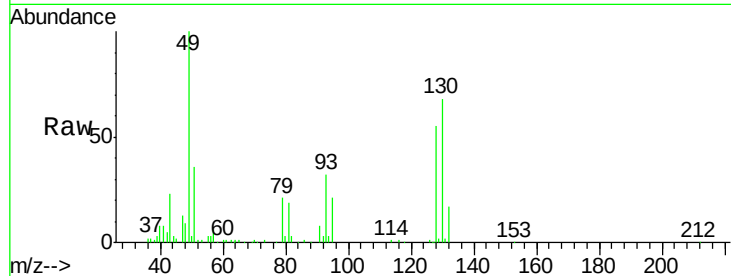
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		21802		
45	10.0	8.0	12.0		
61	8.4	7.5	11.3		
70	7.0	5.8	8.8		

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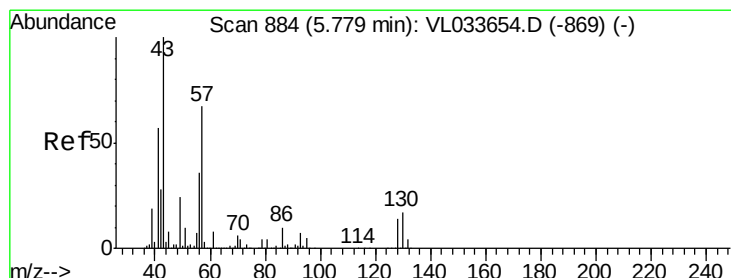
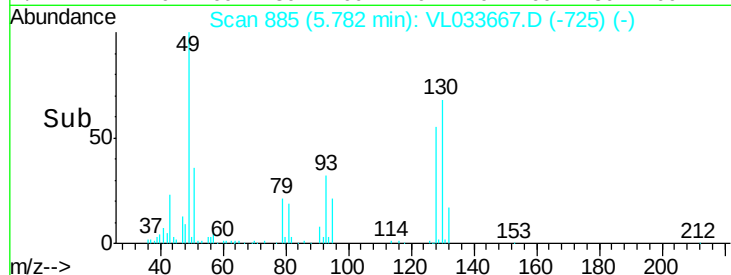
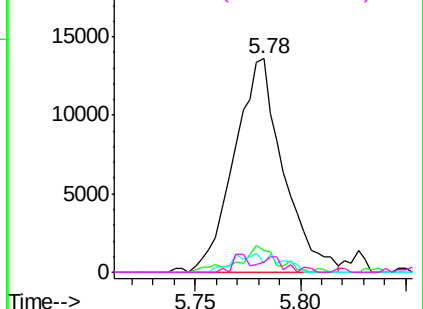
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.093 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		8859		
41	103.1	69.7	104.5		
43	254.9	181.9	272.9		
56	67.7	42.5	63.7#		

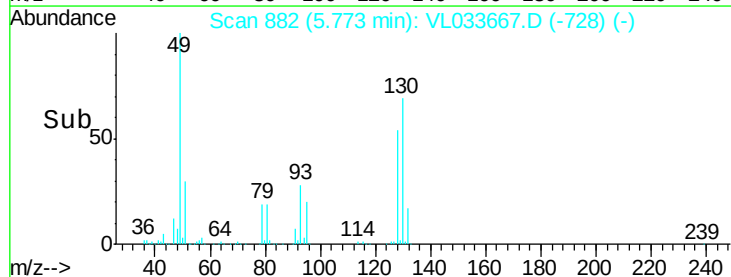
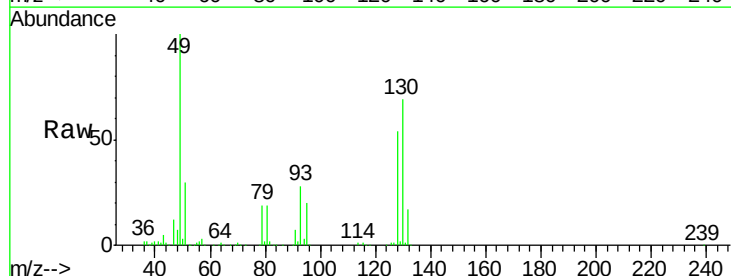
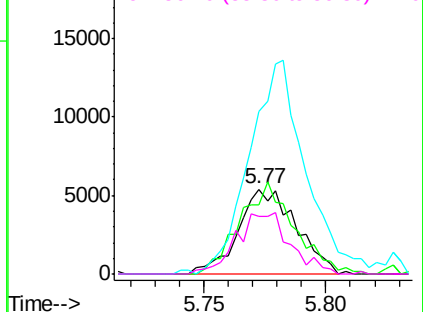
Abundance

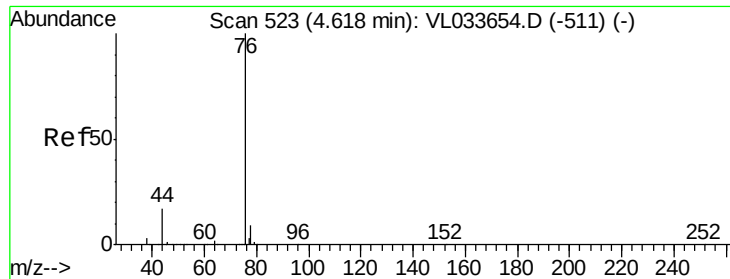
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.083 ppbv m

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

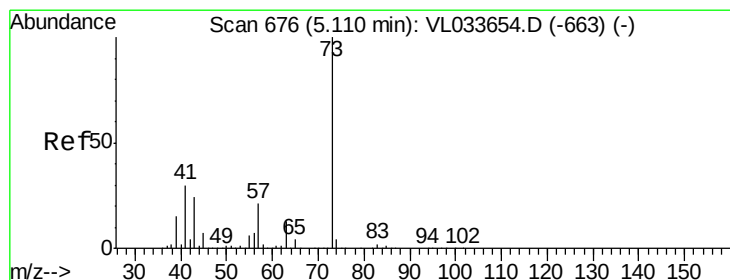
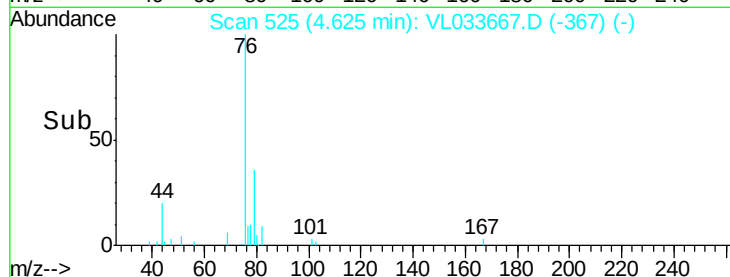
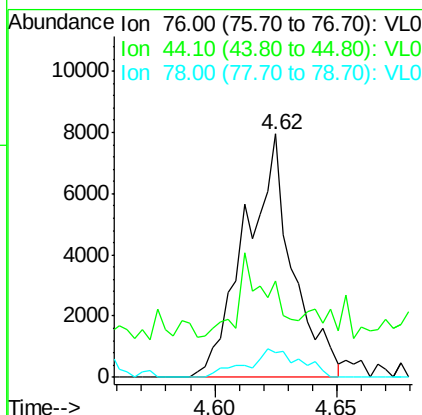
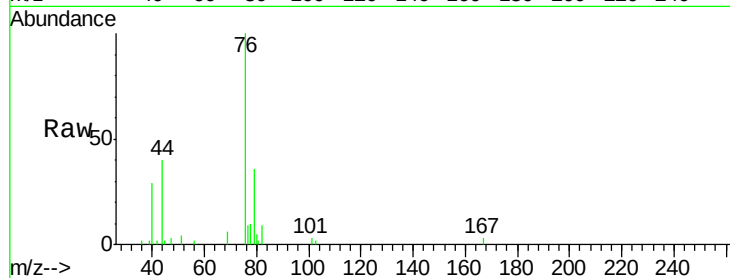
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:	76	Resp:	10723
Ion	Ratio	Lower	Upper
76	100		
44	38.6	14.4	21.6#
78	0.0	7.4	11.2#

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.070 ppbv m

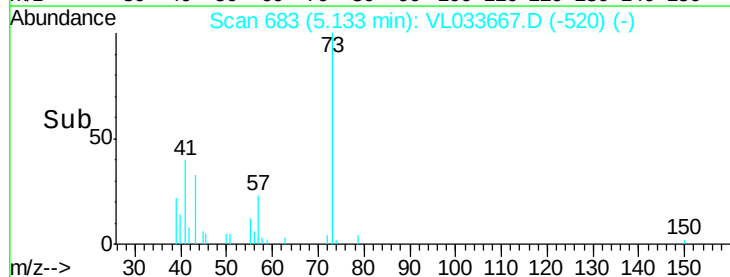
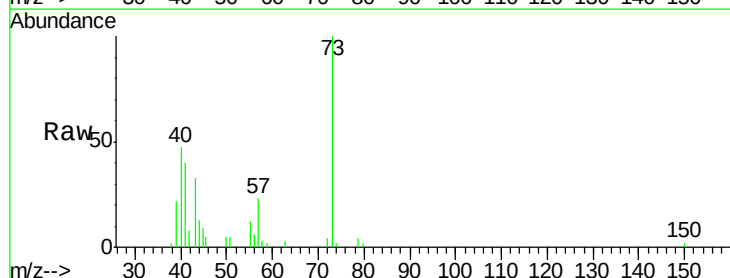
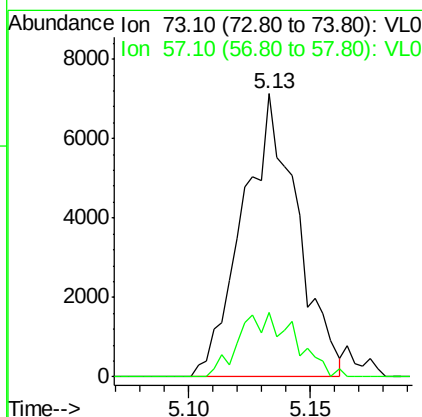
RT: 5.13 min Scan# 683

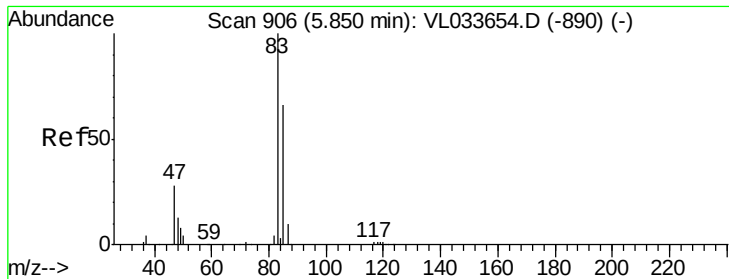
Delta R.T. 0.02 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:	73	Resp:	11145
Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.4	26.0#





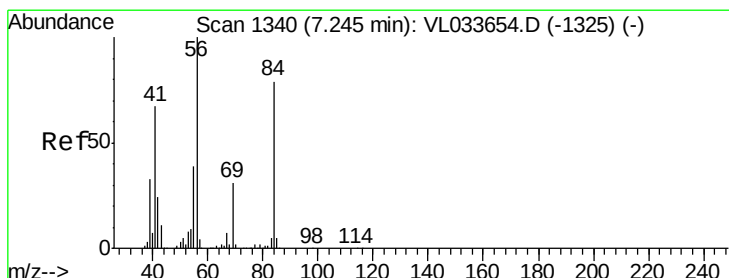
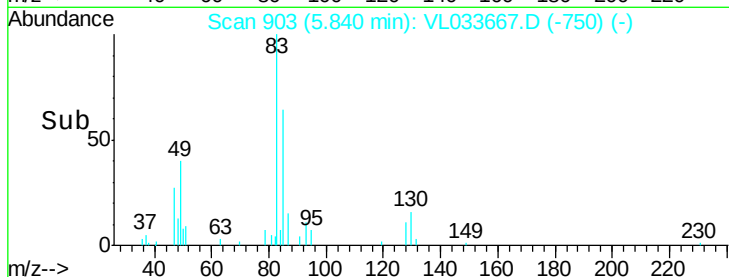
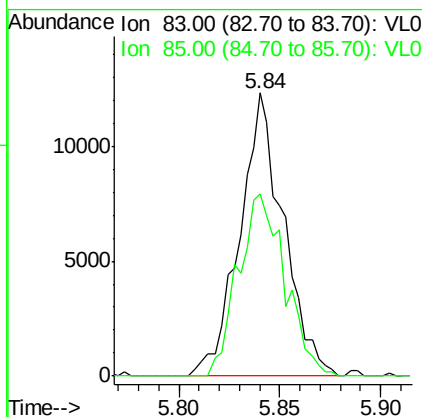
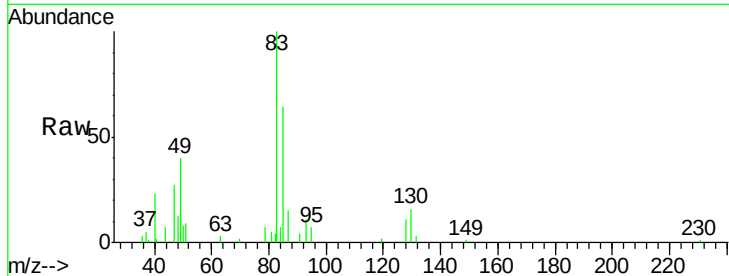
#29
Chloroform
Concen: 0.110 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 83 Resp: 18663
Ion Ratio Lower Upper
83 100
85 64.4 52.6 78.8

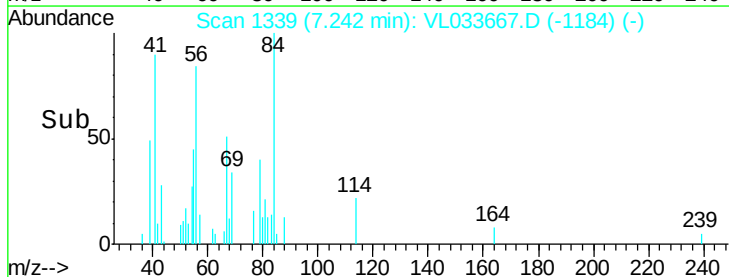
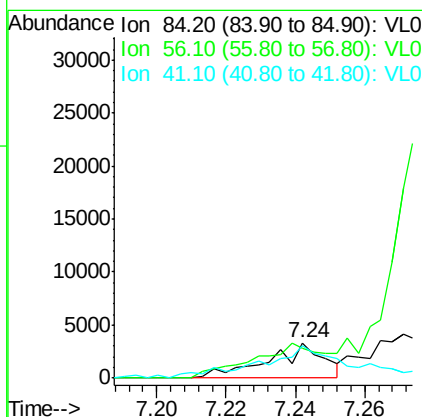
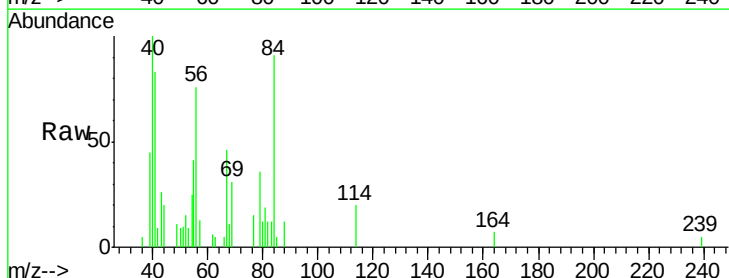
Manual Integrations
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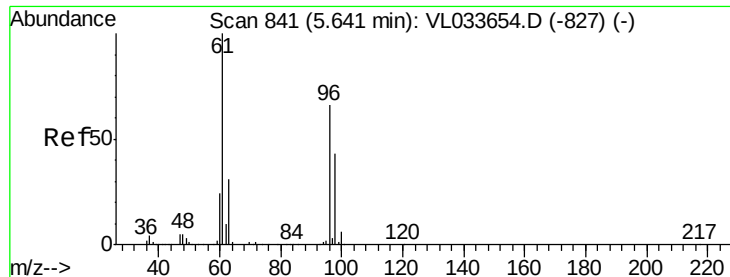
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#30
Cyclohexane
Concen: 0.047 ppbv m
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Tgt Ion: 84 Resp: 3741
Ion Ratio Lower Upper
84 100
56 0.0 107.0 160.4#
41 0.0 66.6 99.8#





#31

cis-1,2-Dichloroethene

Concen: 0.072 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

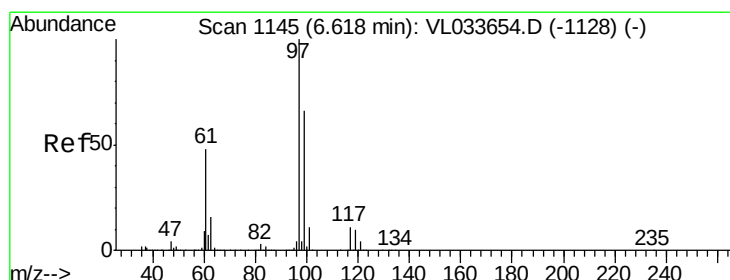
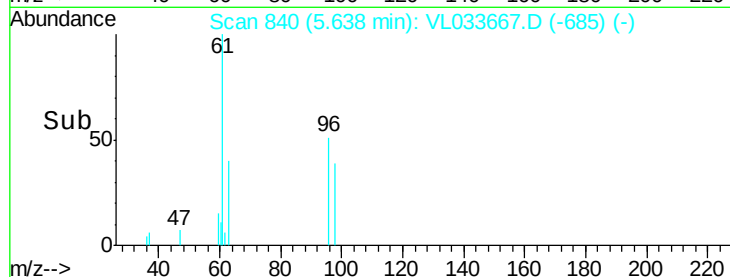
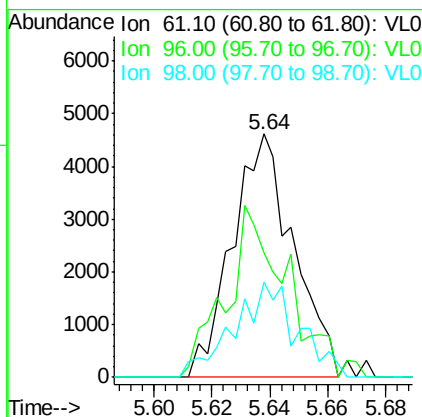
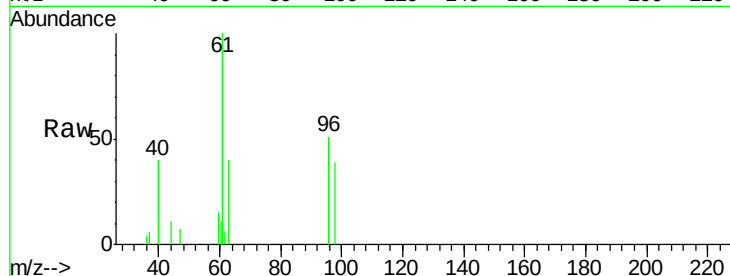
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:	61	Resp:	6748
Ion	Ratio	Lower	Upper
61	100		
96	48.2	53.2	79.8#
98	31.5	34.2	51.4#

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#32

1,1,1-Trichloroethane

Concen: 0.102 ppbv m

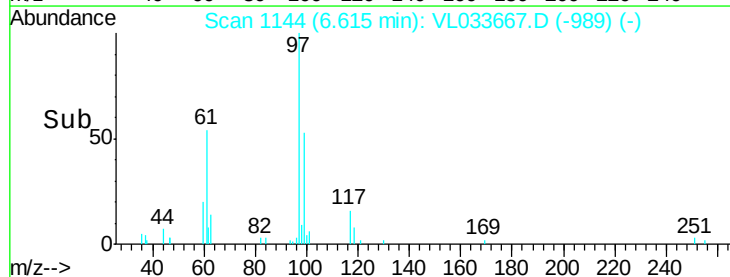
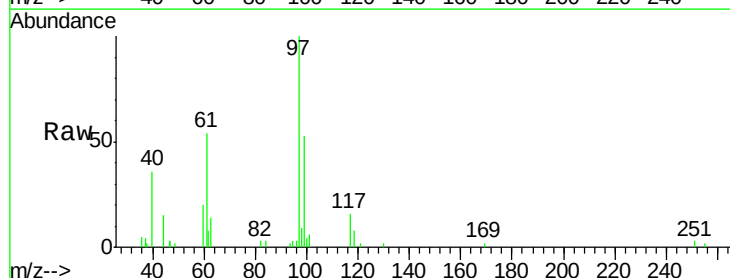
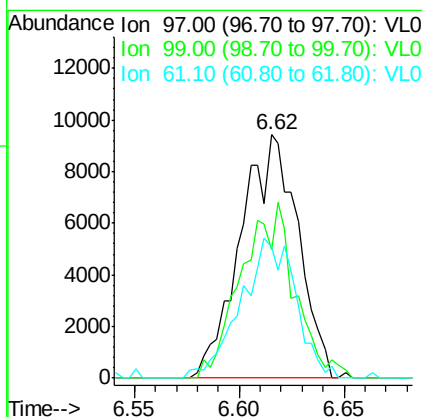
RT: 6.62 min Scan# 1144

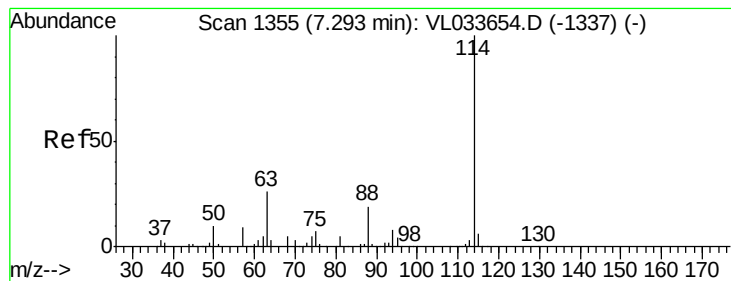
Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:	97	Resp:	17895
Ion	Ratio	Lower	Upper
97	100		
99	67.3	51.4	77.2
61	54.6	38.5	57.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:114 Resp: 2220289

Ion Ratio Lower Upper

114 100

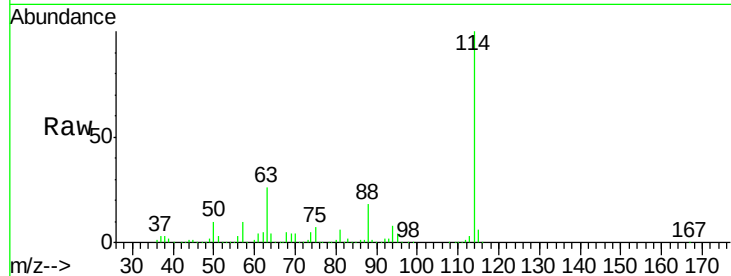
63 26.5 21.3 31.9

88 18.1 14.4 21.6

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MMDadoda

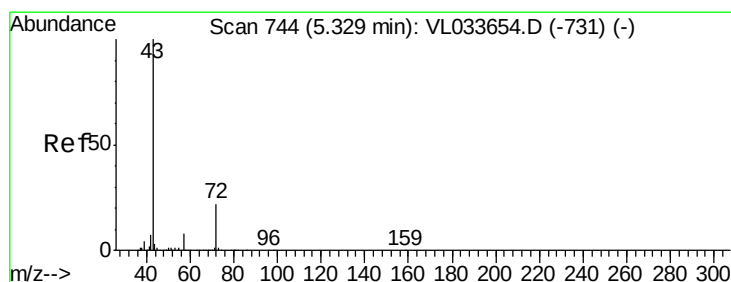
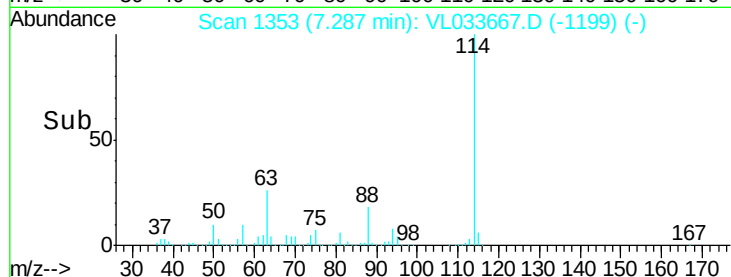
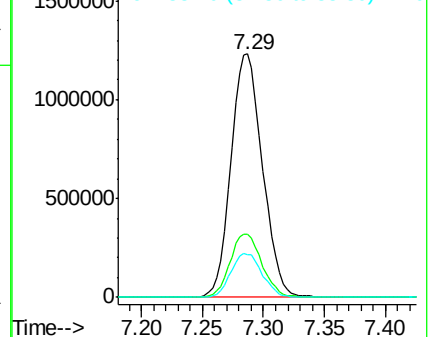
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.078 ppbv m

RT: 5.35 min Scan# 751

Delta R.T. 0.02 min

Lab File: VL033667.D

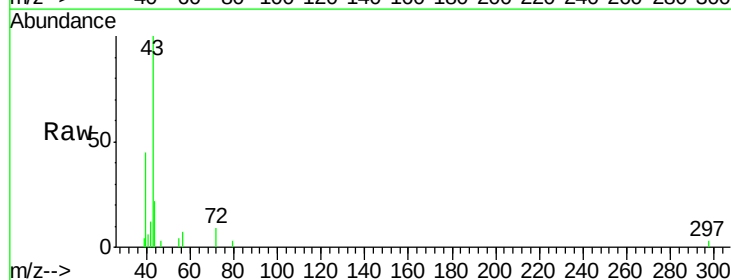
Acq: 6 May 2019 20:27

Tgt Ion: 43 Resp: 11104

Ion Ratio Lower Upper

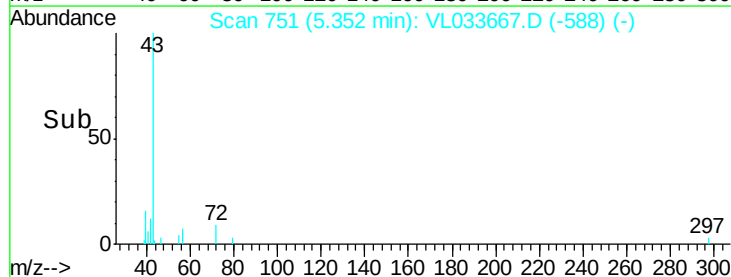
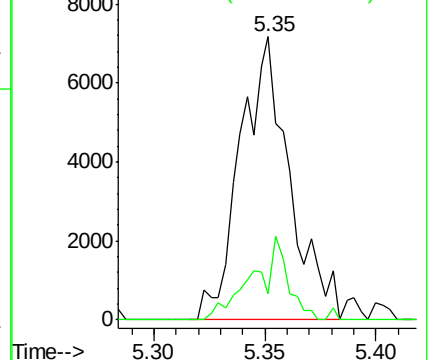
43 100

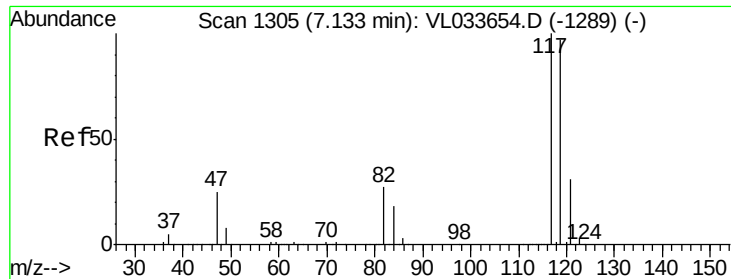
72 0.0 17.5 26.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





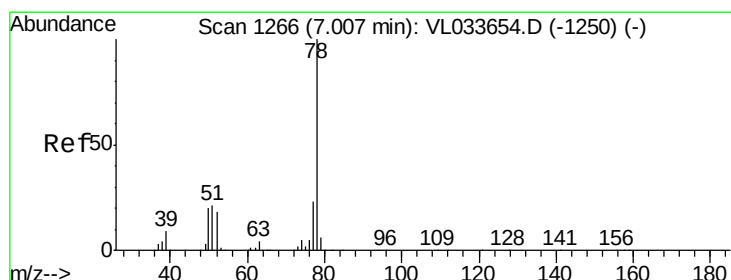
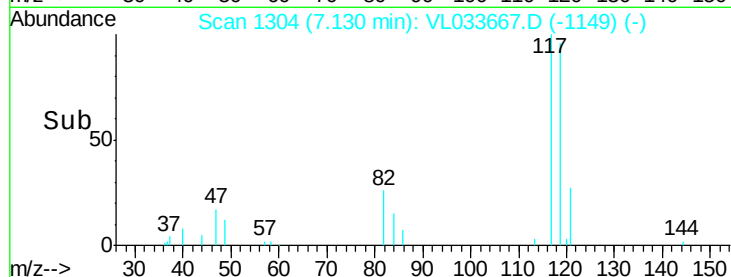
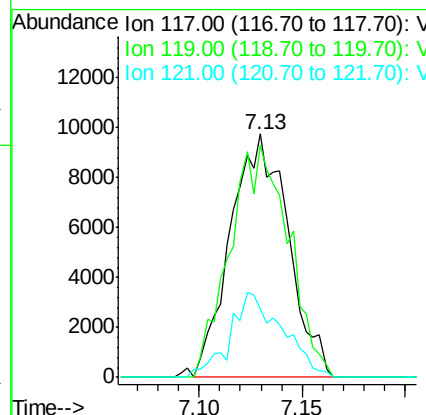
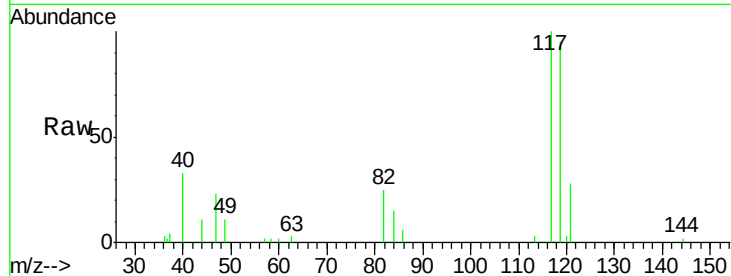
#35
Carbon Tetrachloride
Concen: 0.104 ppbv m
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion:117 Resp: 18914
Ion Ratio Lower Upper
117 100
119 95.4 77.9 116.9
121 27.9 25.0 37.6

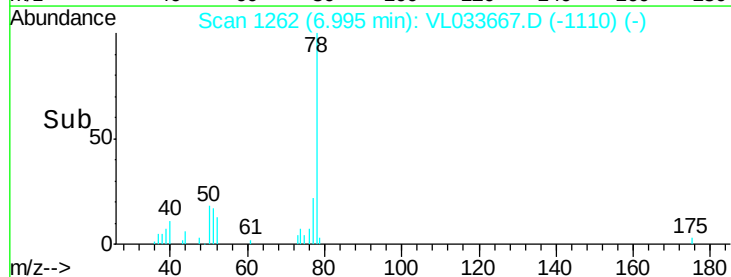
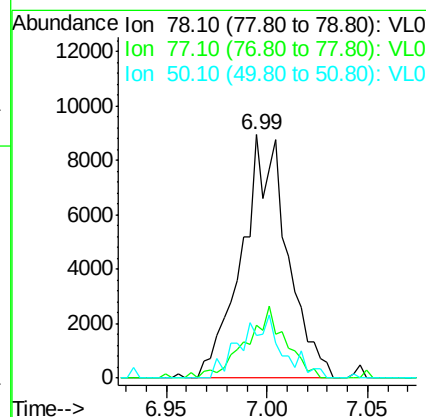
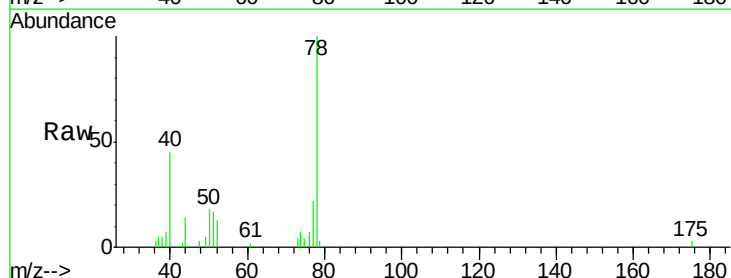
Manual Integrations
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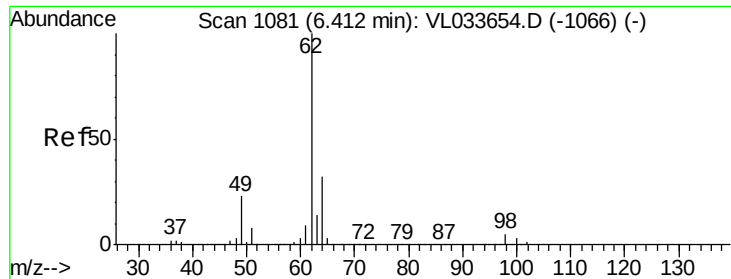
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#36
Benzene
Concen: 0.071 ppbv m
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Tgt Ion: 78 Resp: 14152
Ion Ratio Lower Upper
78 100
77 21.7 18.2 27.2
50 17.7 15.8 23.6





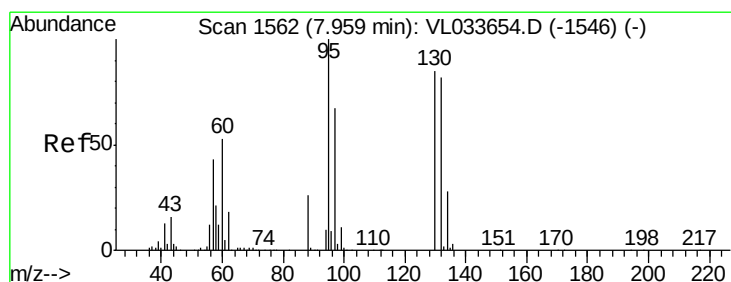
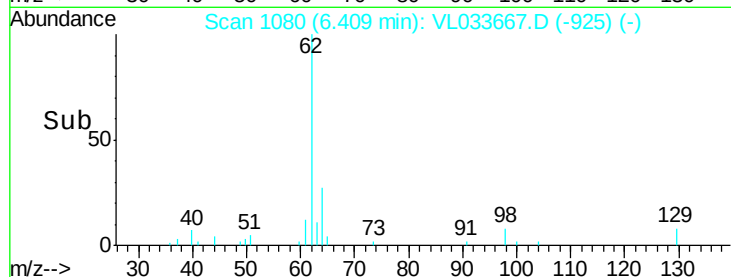
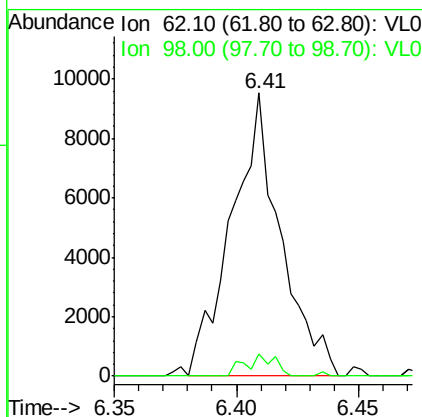
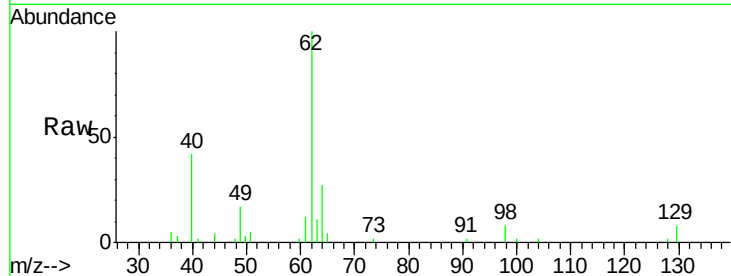
#37
 1,2-Dichloroethane
 Concen: 0.096 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion: 62 Resp: 13277
 Ion Ratio Lower Upper
 62 100
 98 4.8 4.5 6.7

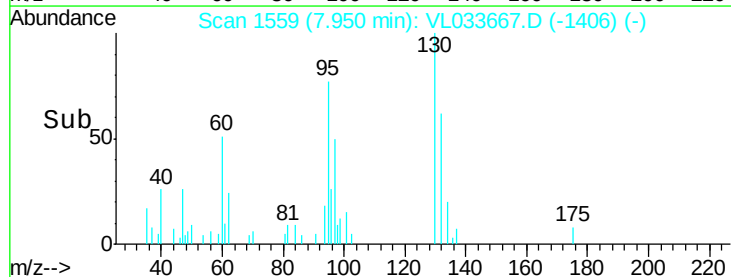
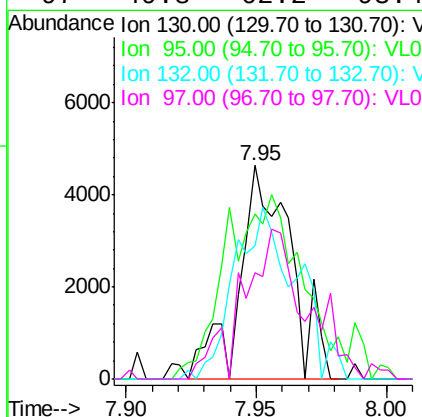
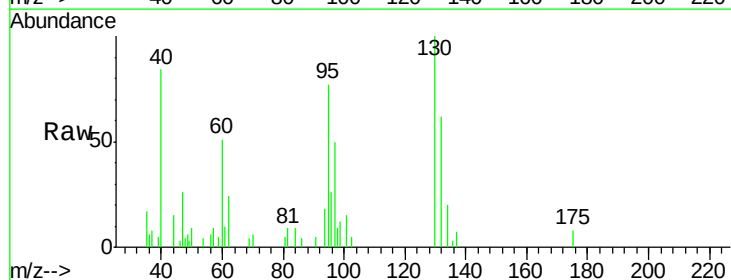
Manual Integrations
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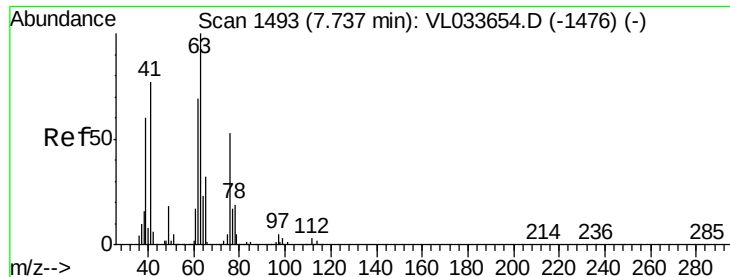
MMDadoda
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#38
 Trichloroethene
 Concen: 0.087 ppbv m
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Tgt Ion:130 Resp: 6374
 Ion Ratio Lower Upper
 130 100
 95 77.3 93.4 140.0#
 132 62.3 76.2 114.4#
 97 49.8 62.2 93.4#





#39

1,2-Dichloropropane

Concen: 0.104 ppbv m

RT: 7.73 min Scan# 1490

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

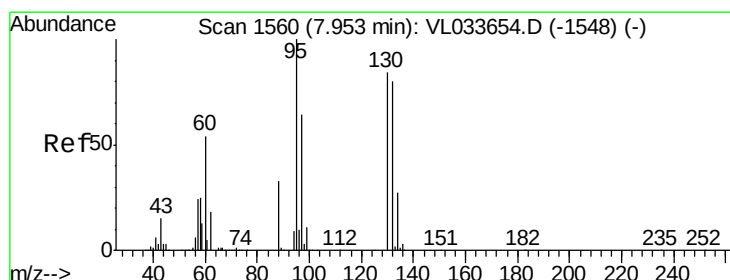
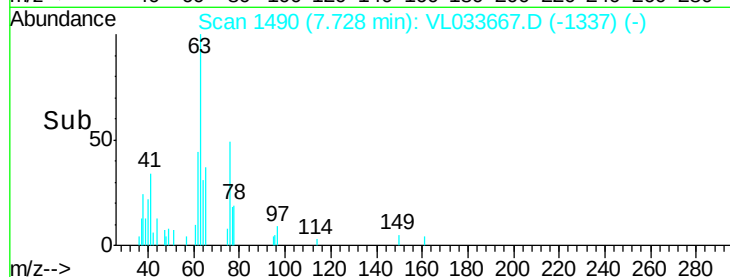
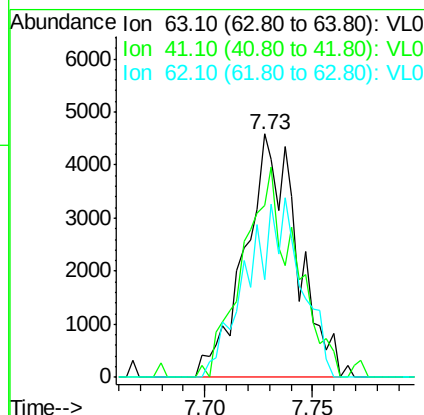
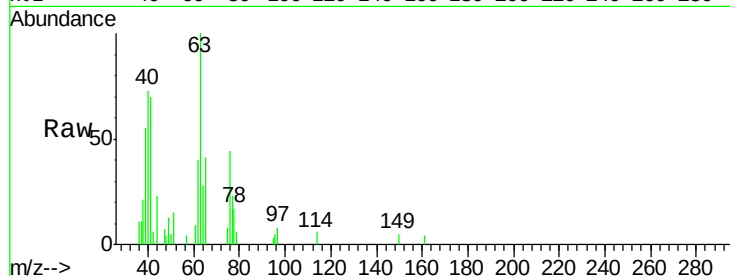
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:	63	Resp:	7740
Ion	Ratio	Lower	Upper
63	100		
41	70.4	61.6	92.4
62	40.0	55.0	82.6#

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#40

1,4-Dioxane

Concen: 0.035 ppbv m

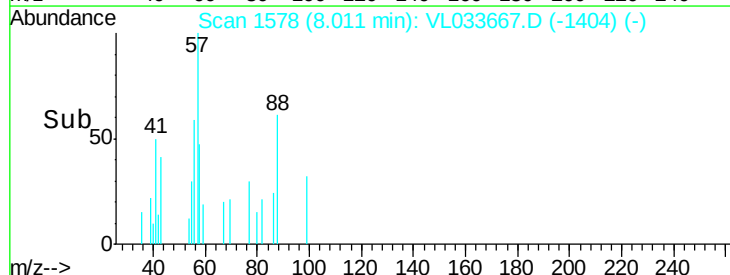
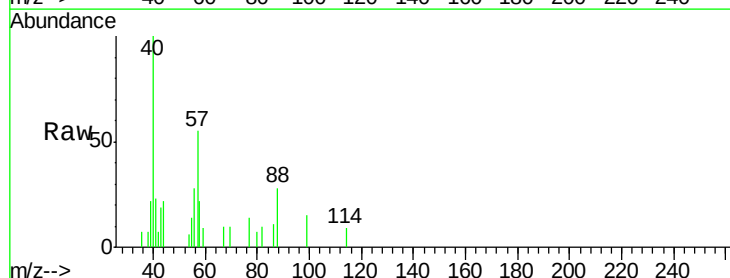
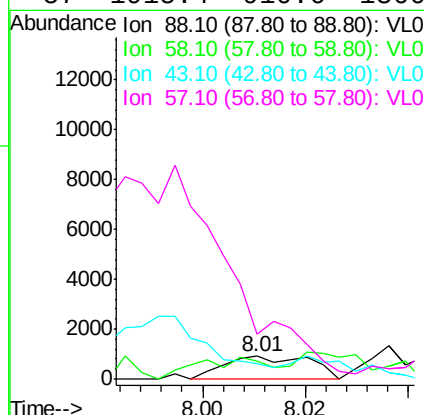
RT: 8.01 min Scan# 1578

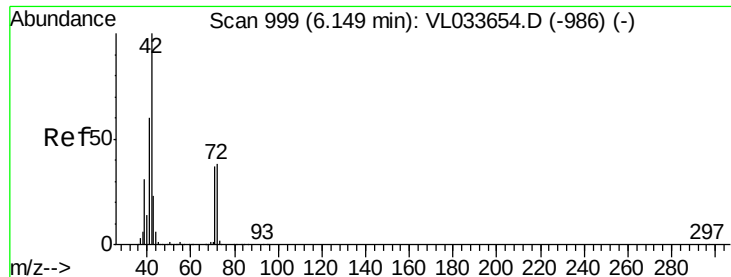
Delta R.T. 0.06 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:	88	Resp:	1046
Ion	Ratio	Lower	Upper
88	100		
58	161.5	102.3	153.5#
43	534.3	206.1	309.1#
57	1915.4	910.6	1366.0#





#41

Tetrahydrofuran

Concen: 0.066 ppbv m

RT: 6.17 min Scan# 1006

Delta R.T. 0.02 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

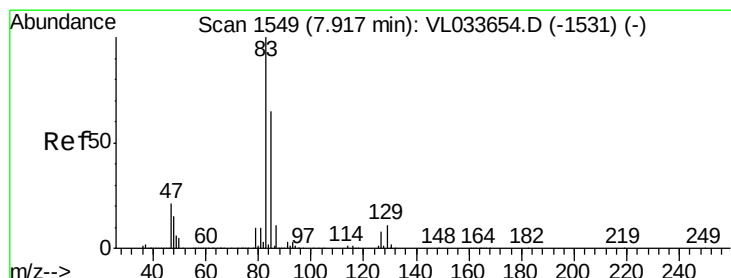
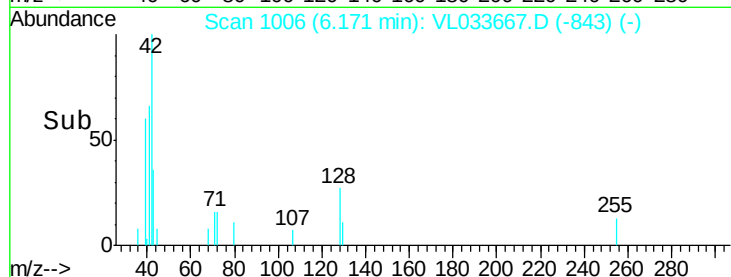
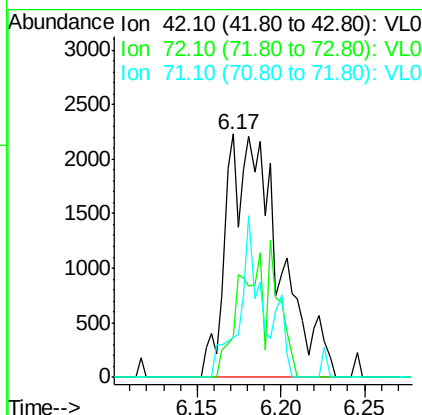
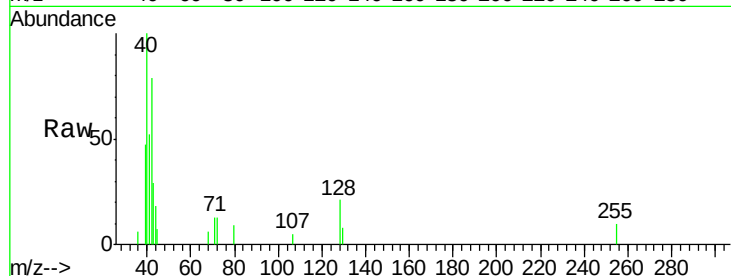
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:	42	Resp:	4874
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.6	47.4#
71	0.0	30.6	46.0#

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#42

Bromodichloromethane

Concen: 0.094 ppbv m

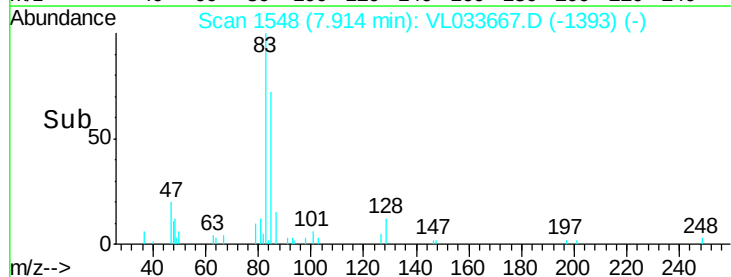
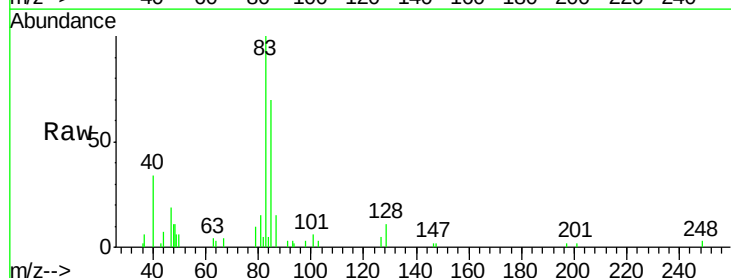
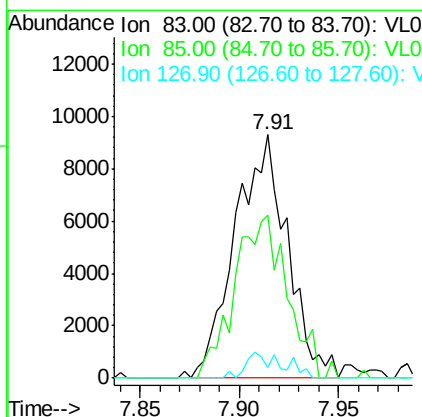
RT: 7.91 min Scan# 1548

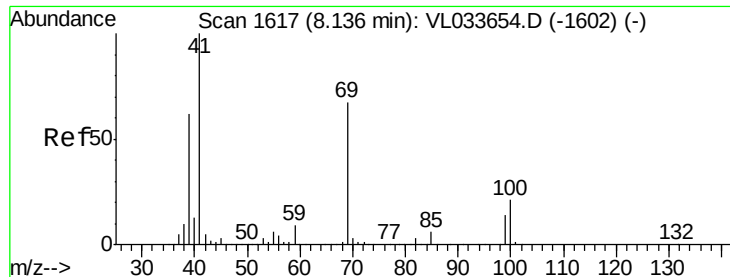
Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:	83	Resp:	16936
Ion	Ratio	Lower	Upper
83	100		
85	70.3	52.4	78.6
127	4.7	6.6	9.8#





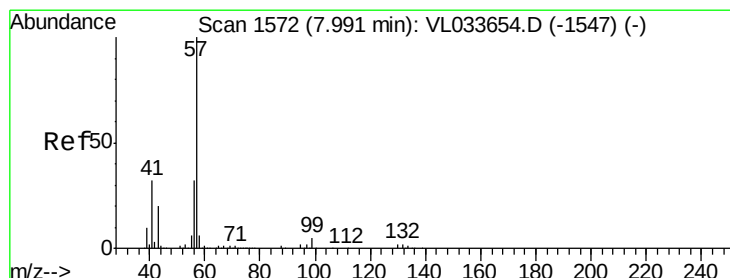
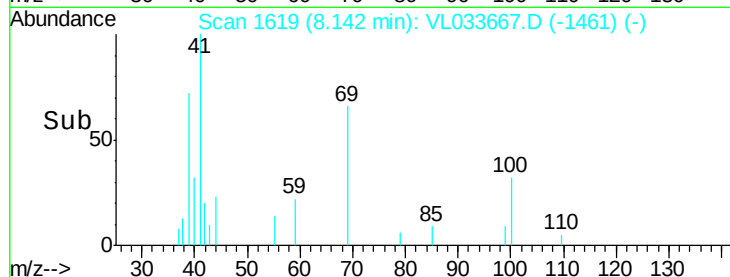
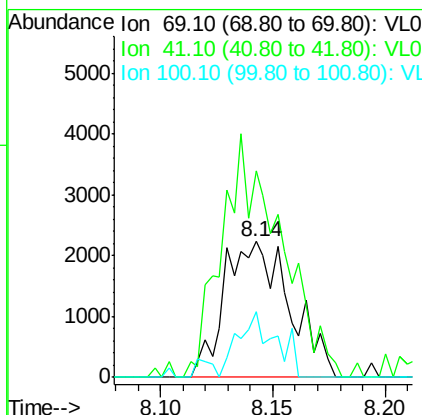
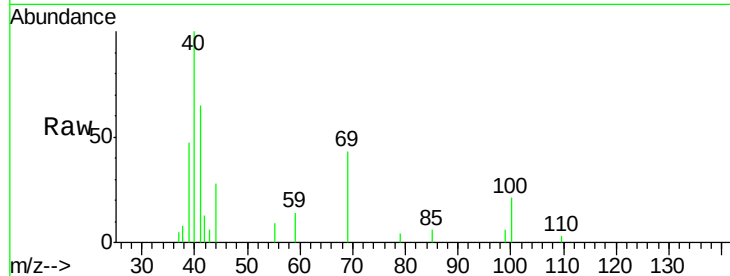
#43
Methyl Methacrylate
Concen: 0.060 ppbv m
RT: 8.14 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	116.6	175.0#
100	0.0	24.6	37.0#

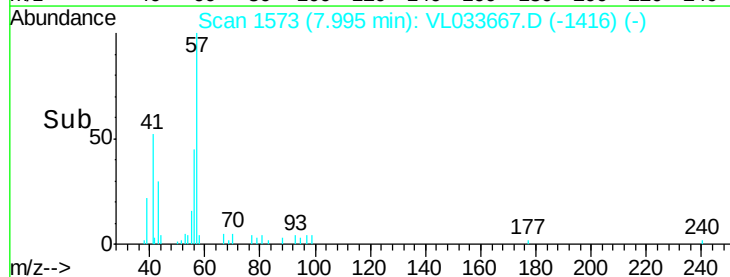
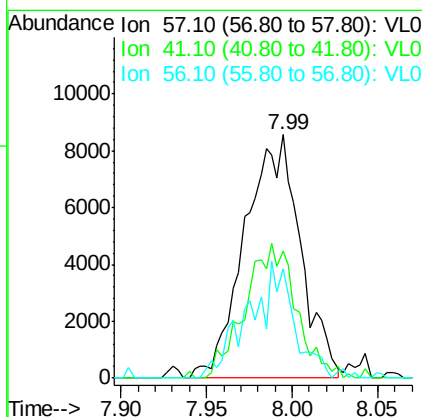
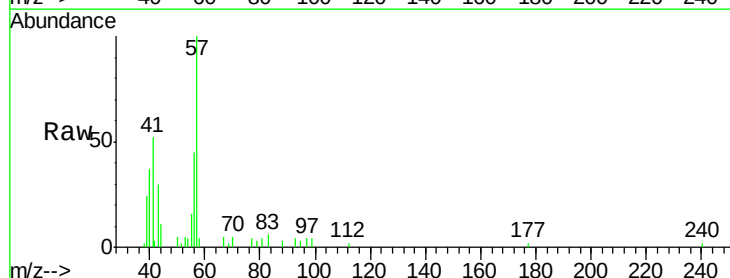
Manual Integrations
APPROVED

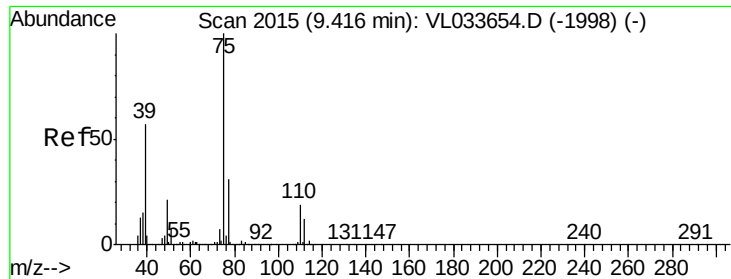
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.057 ppbv m
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	51.5	25.7	38.5#
56	39.6	25.0	37.6#





#45

t-1,3-Dichloropropene

Concen: 0.066 ppbv m

RT: 9.41 min Scan# 2012

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 75 Resp: 6078

Ion Ratio Lower Upper

75 100

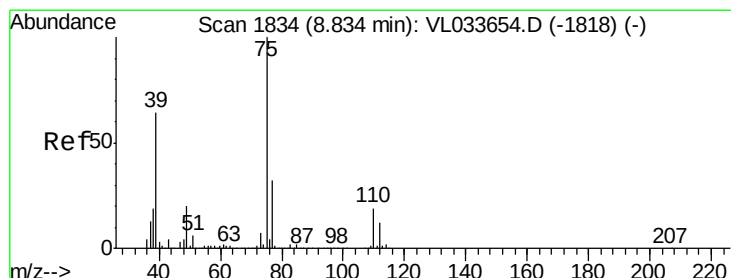
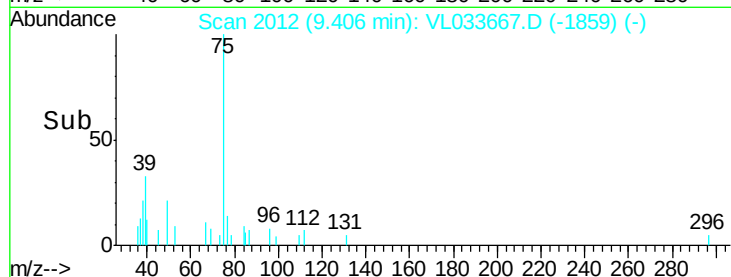
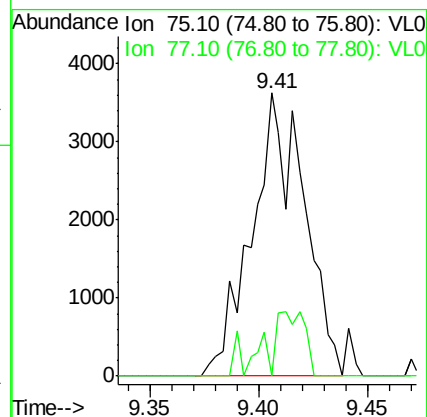
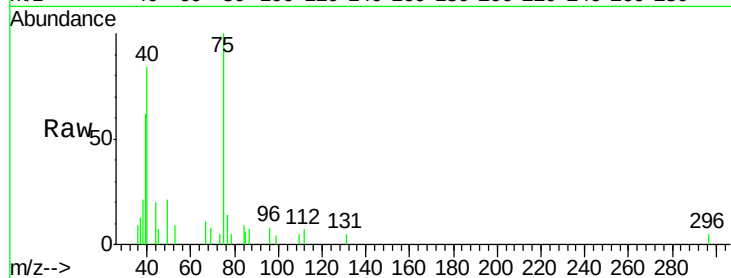
77 0.0 24.7 37.1#

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#46

cis-1,3-Dichloropropene

Concen: 0.058 ppbv m

RT: 8.83 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

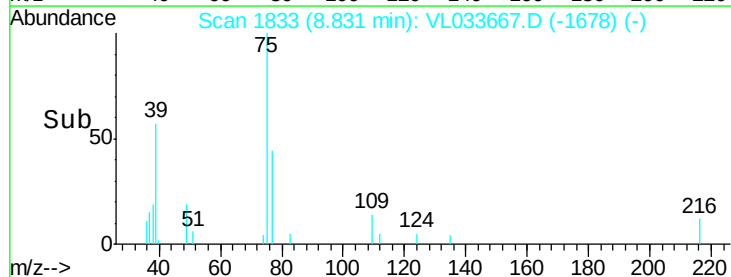
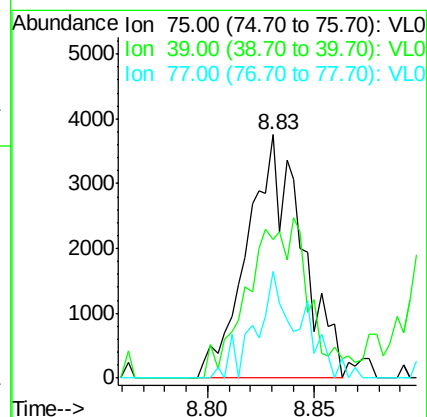
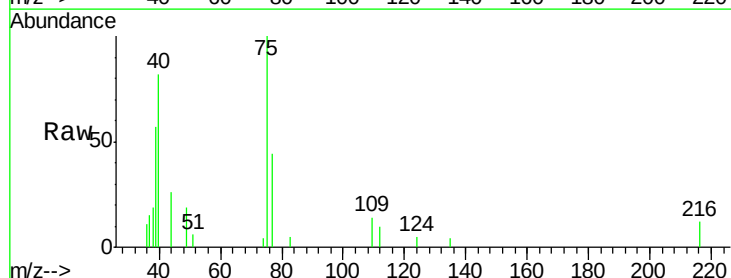
Tgt Ion: 75 Resp: 6668

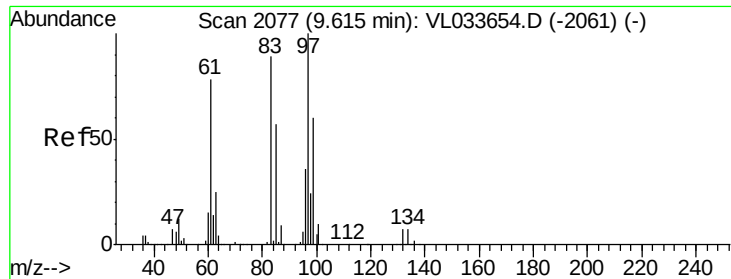
Ion Ratio Lower Upper

75 100

39 56.7 51.5 77.3

77 44.0 25.4 38.0#





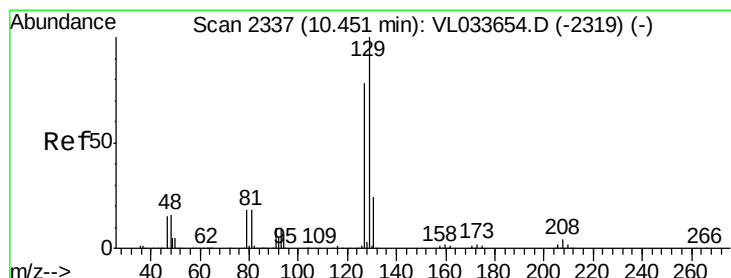
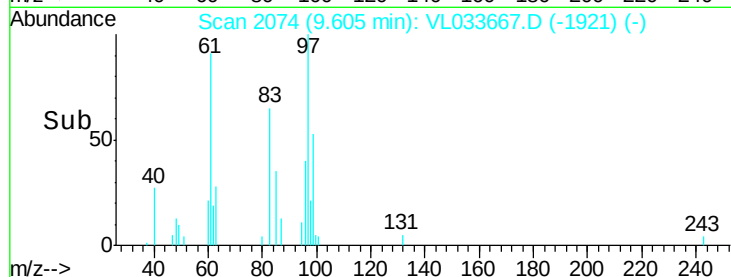
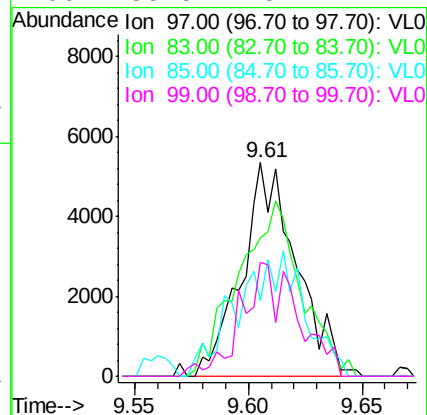
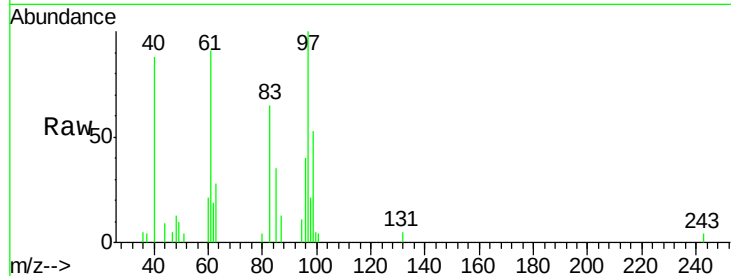
#47
 1,1,2-Trichloroethane
 Concen: 0.105 ppbv m
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		8936		
83	64.6	70.9	106.3#		
85	35.3	45.8	68.6#		
99	53.5	48.2	72.4		

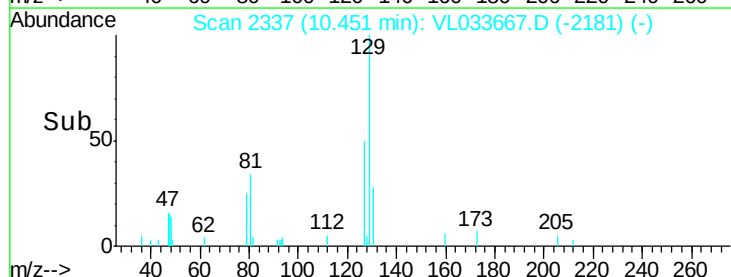
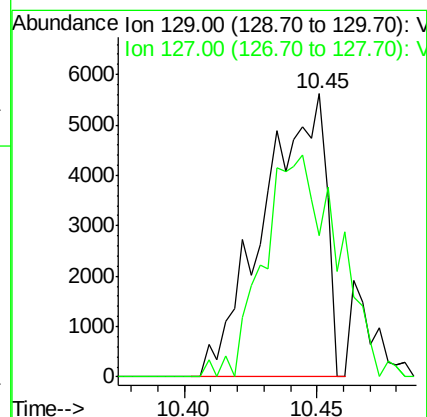
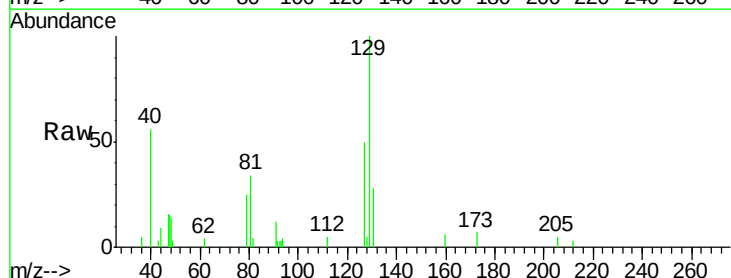
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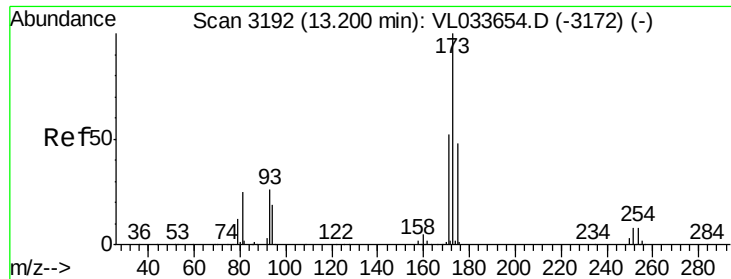
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#48
 Dibromochloromethane
 Concen: 0.063 ppbv m
 RT: 10.45 min Scan# 2337
 Delta R.T. 0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		9075		
127	93.9	39.1	117.2		





#49

Bromoform

Concen: 0.072 ppbv m

RT: 13.18 min Scan# 3187

Delta R.T. -0.02 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

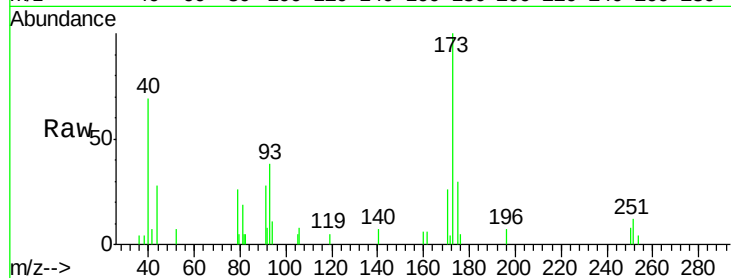
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

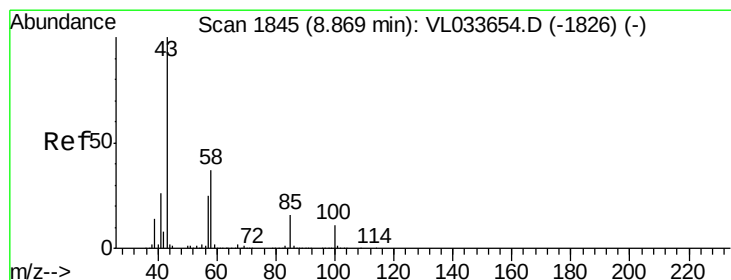
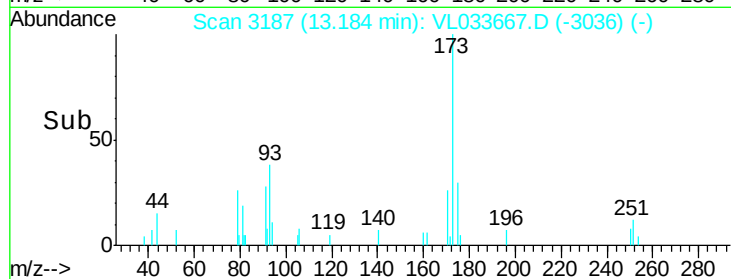
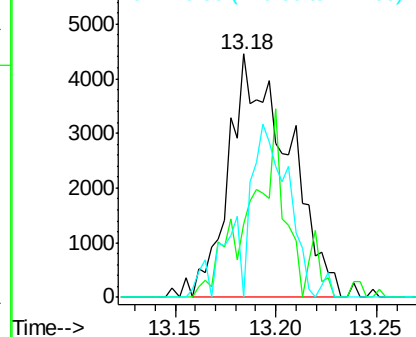
Tot Ion:	173	Resp:	9009
Ion Ratio	Lower	Upper	
173	100		
175	0.0	39.3	58.9#
171	0.0	41.5	62.3#

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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: 0.073 ppbv m

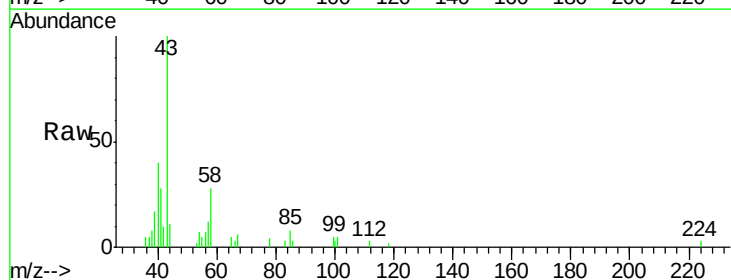
RT: 8.89 min Scan# 1853

Delta R.T. 0.03 min

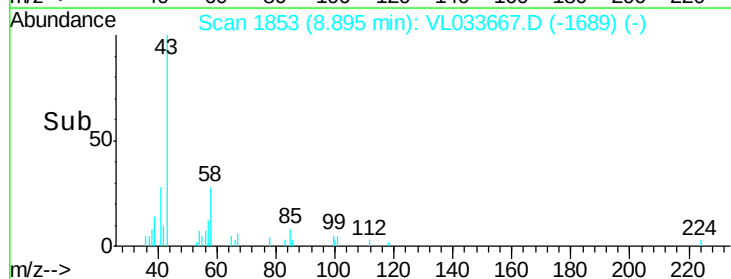
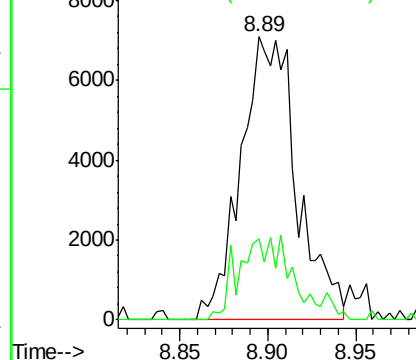
Lab File: VL033667.D

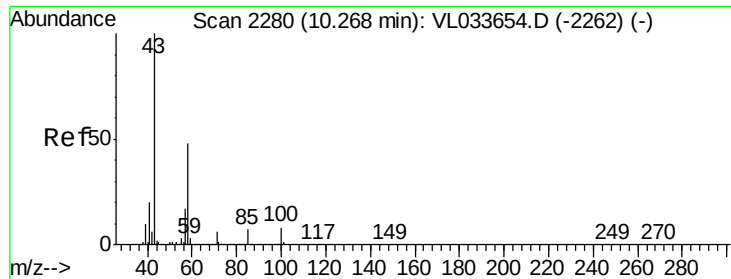
Acq: 6 May 2019 20:27

Tgt Ion:	43	Resp:	15640
Ion Ratio	Lower	Upper	
43	100		
58	0.0	28.8	43.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





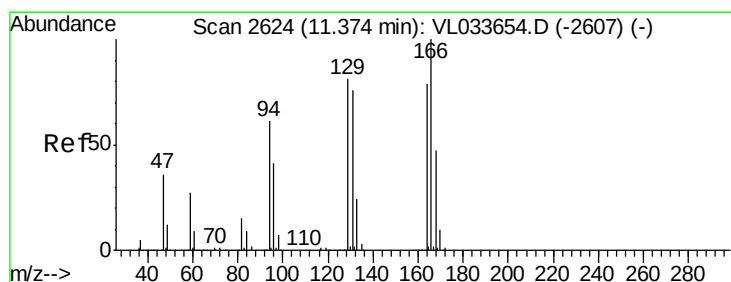
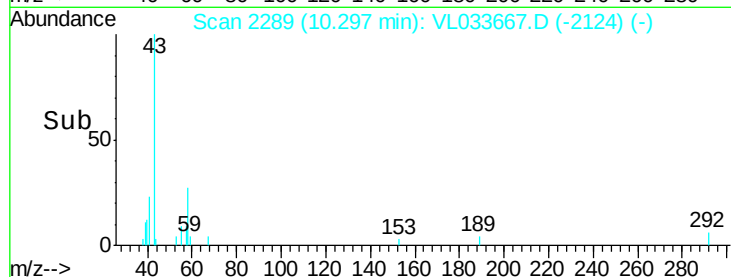
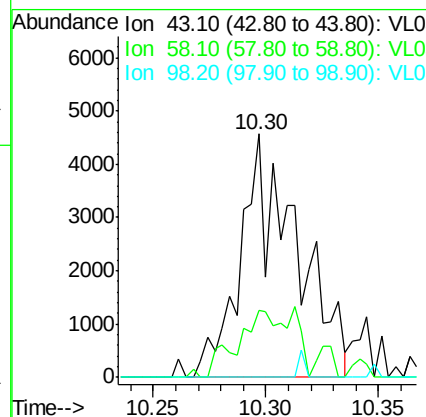
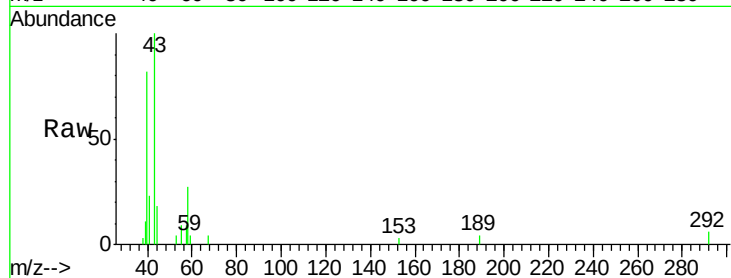
#51
2-Hexanone
Concen: 0.047 ppbv m
RT: 10.30 min Scan# 2289
Delta R.T. 0.03 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.4#
98	0.0	0.2	0.4#

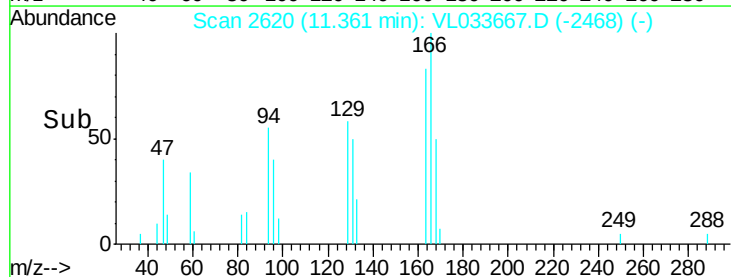
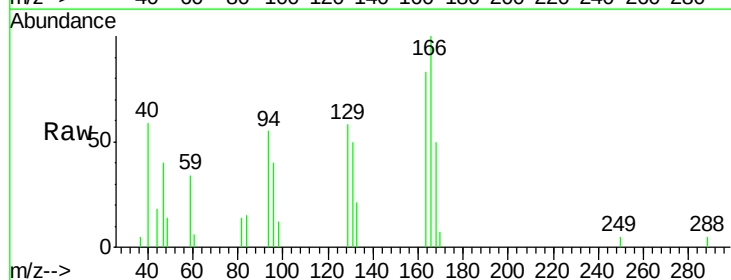
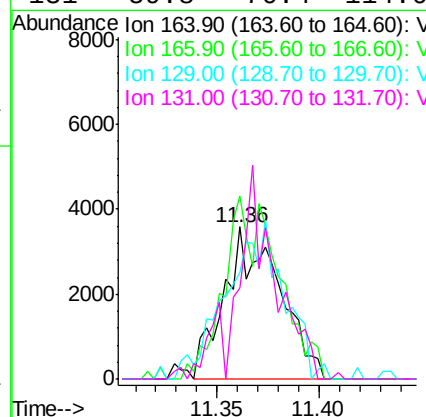
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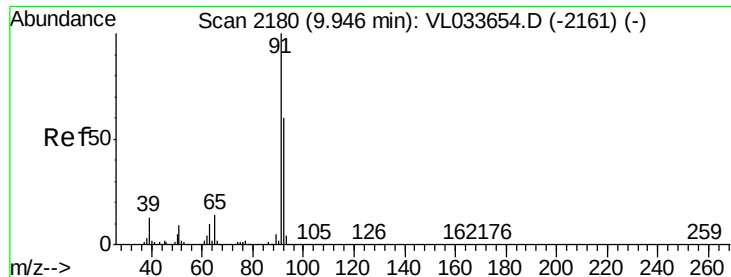
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#52
Tetrachloroethene
Concen: 0.095 ppbv m
RT: 11.36 min Scan# 2620
Delta R.T. -0.01 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.5	100.6	151.0
129	70.0	81.0	121.6#
131	59.8	76.4	114.6#





#53

Toluene

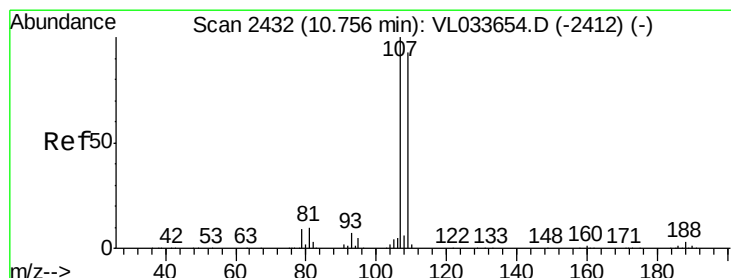
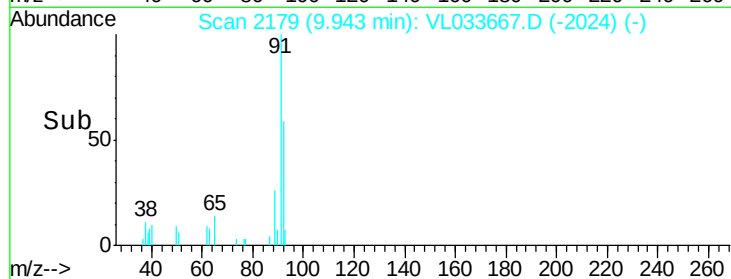
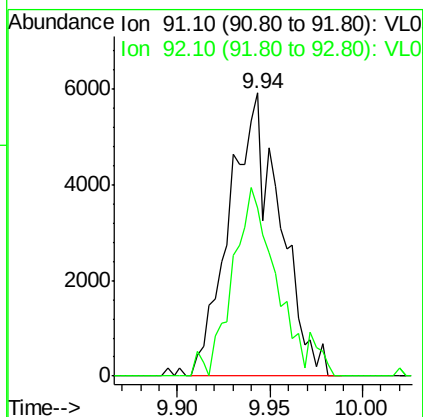
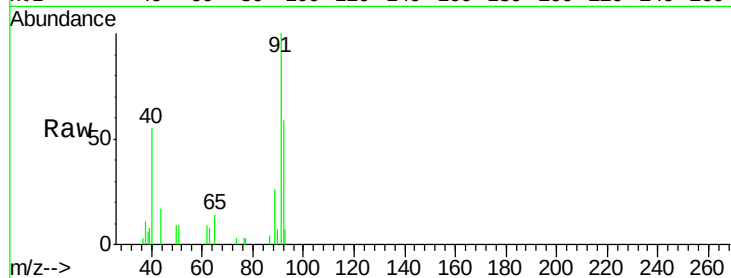
Concen: 0.052 ppbv m
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 91 Resp: 11192
Ion Ratio Lower Upper
91 100
92 59.5 47.7 71.5

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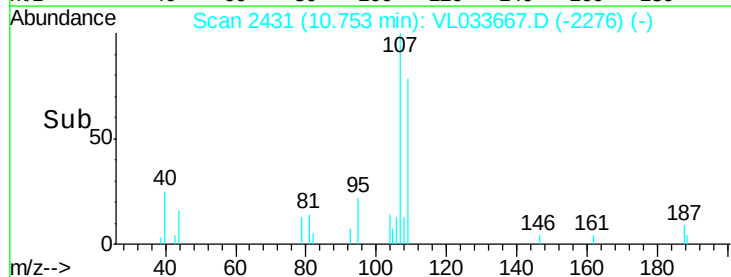
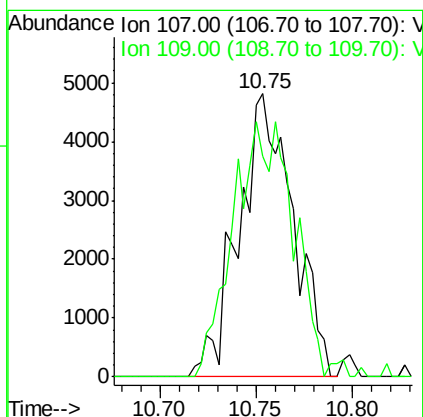
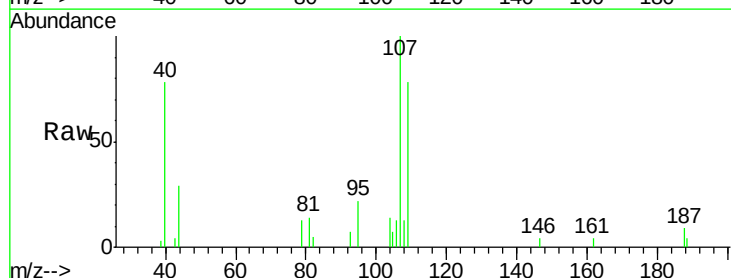


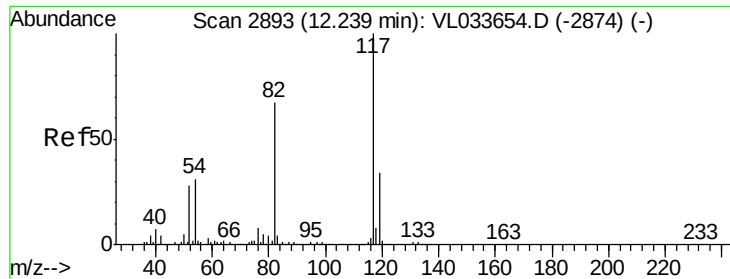
#54

1,2-Dibromoethane

Concen: 0.073 ppbv m
RT: 10.75 min Scan# 2431
Delta R.T. -0.00 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Tgt Ion: 107 Resp: 9425
Ion Ratio Lower Upper
107 100
109 77.8 74.6 111.8





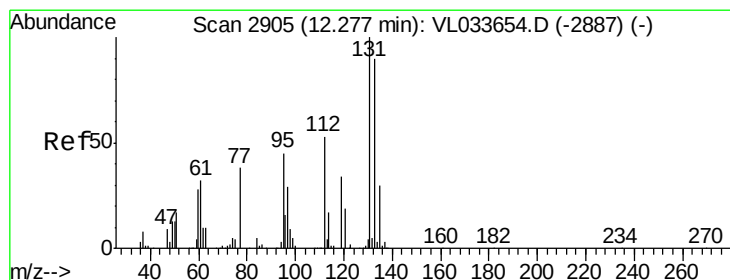
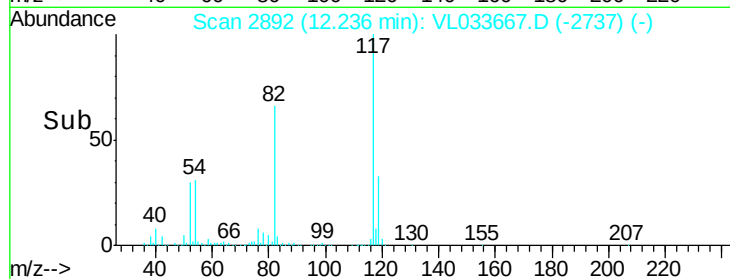
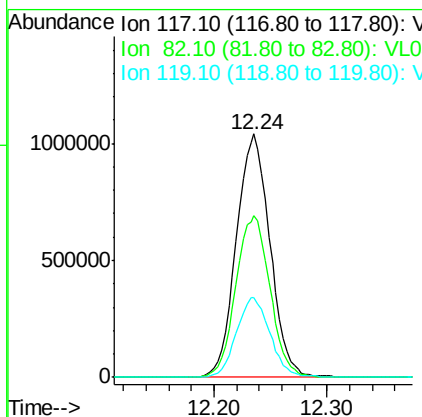
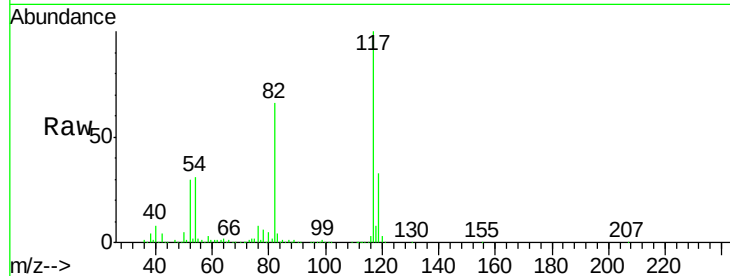
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.8	49.7	74.5
119	32.8	24.8	37.2

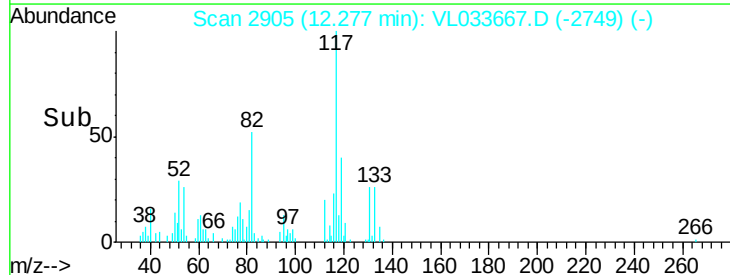
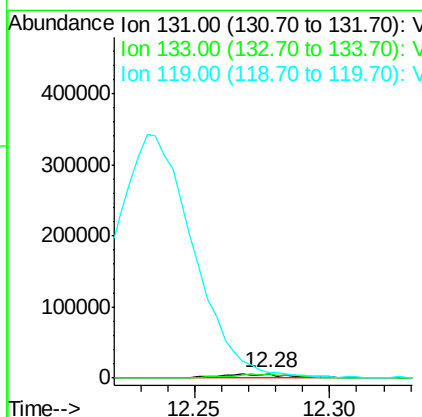
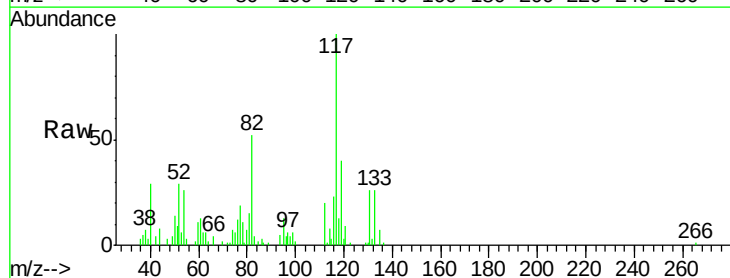
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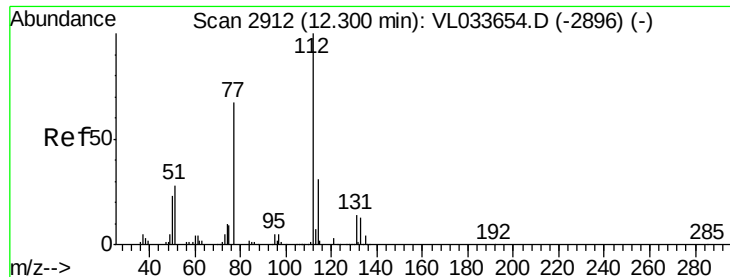
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.103 ppbv m
RT: 12.28 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.9	76.0	114.0
119	0.0	45.4	68.2#





#57

Chlorobenzene

Concen: 0.109 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

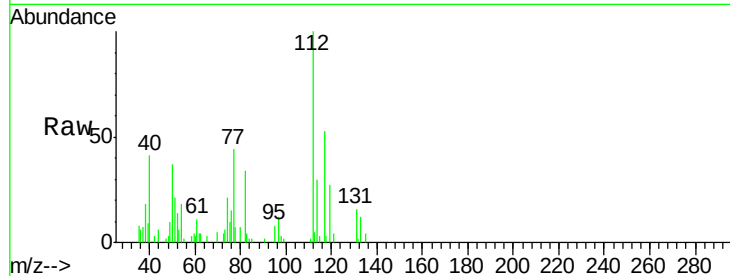
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

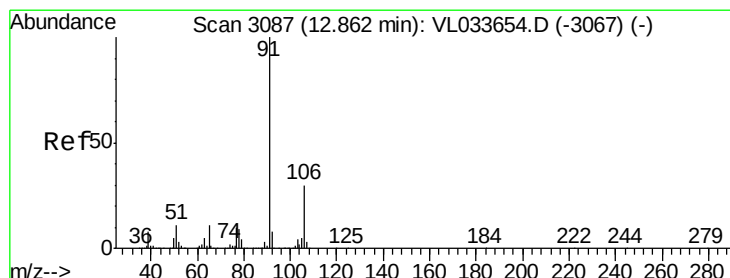
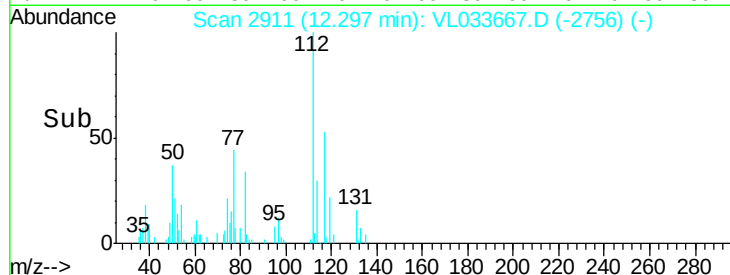
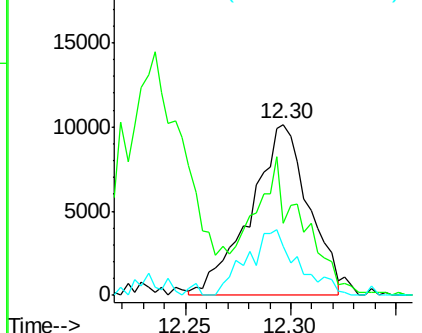
Tot Ion	Ratio	Lower	Upper
112	100		
77	43.1	54.4	81.6#
114	26.9	28.2	34.4#

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Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.061 ppbv m

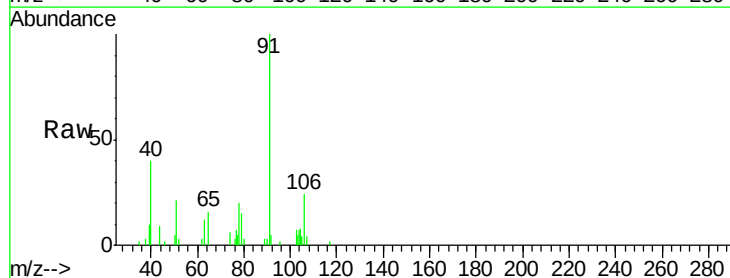
RT: 12.86 min Scan# 3086

Delta R.T. -0.00 min

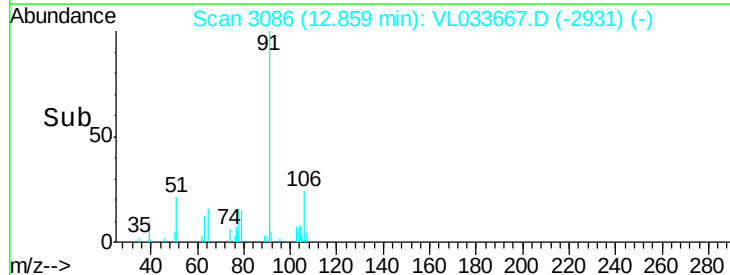
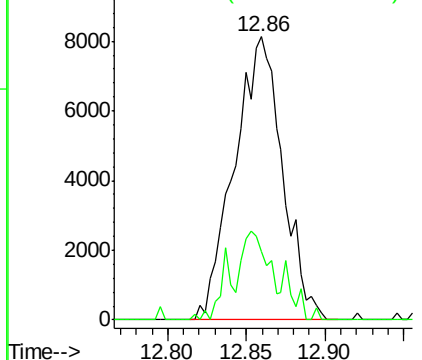
Lab File: VL033667.D

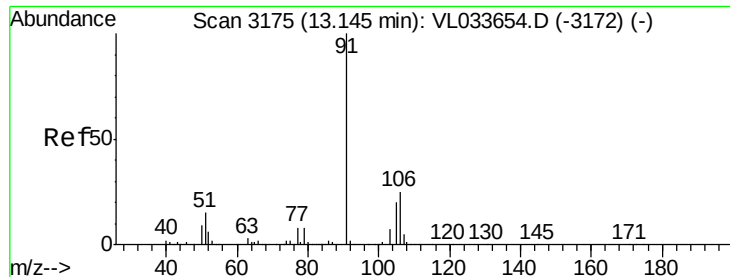
Acq: 6 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
91	100		
106	24.0	23.7	35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





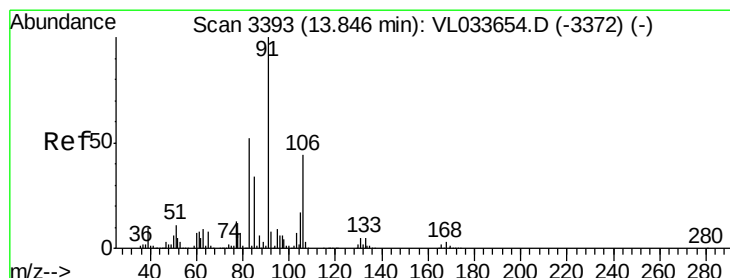
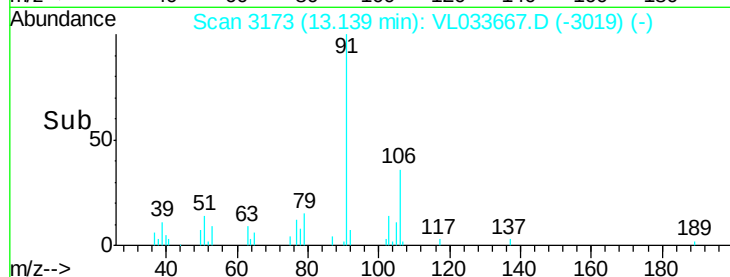
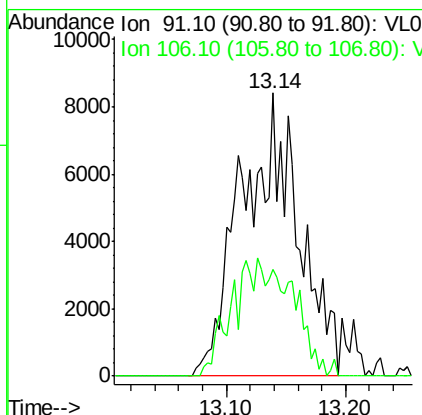
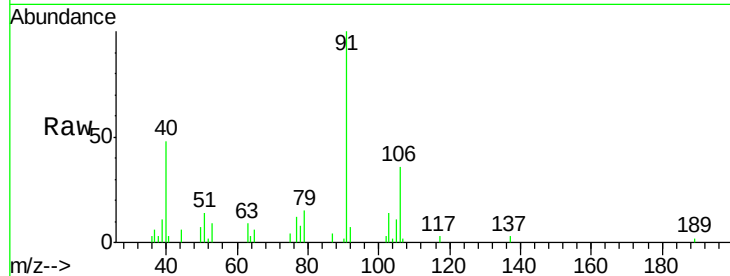
#59
m/p-Xylene
Concen: 0.111 ppbv m
RT: 13.14 min Scan# 3173
Delta R.T. -0.01 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tot Ion: 91 Resp: 27467
Ion Ratio Lower Upper
91 100
106 0.0 36.2 54.2#

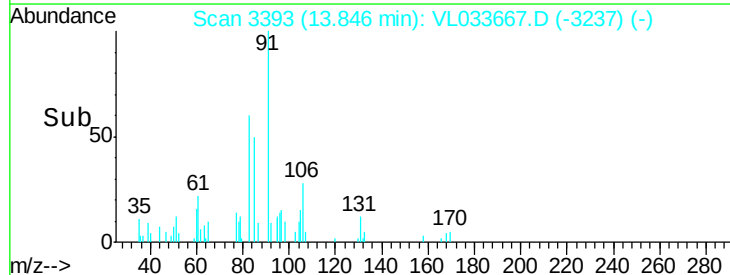
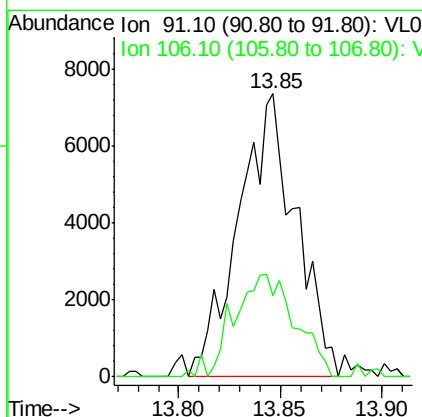
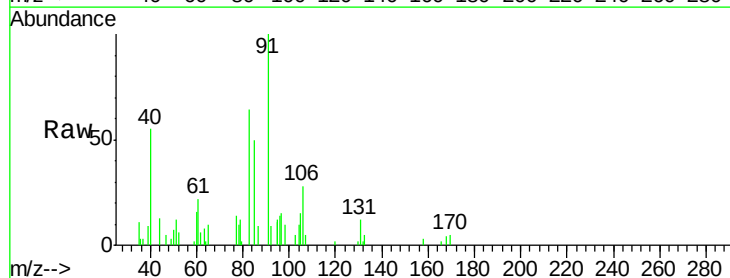
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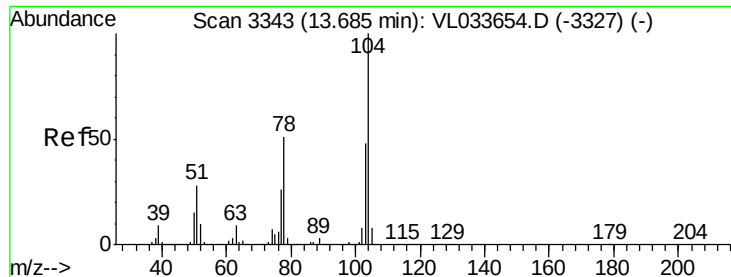
MMDadoda
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#60
o-Xylene
Concen: 0.057 ppbv m
RT: 13.85 min Scan# 3393
Delta R.T. 0.00 min
Lab File: VL033667.D
Acq: 6 May 2019 20:27

Tgt Ion: 91 Resp: 14375
Ion Ratio Lower Upper
91 100
106 39.2 21.7 65.1





#61

Stvrene

Concen: 0.051 ppbv m

RT: 13.67 min Scan# 3337

Delta R.T. -0.02 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

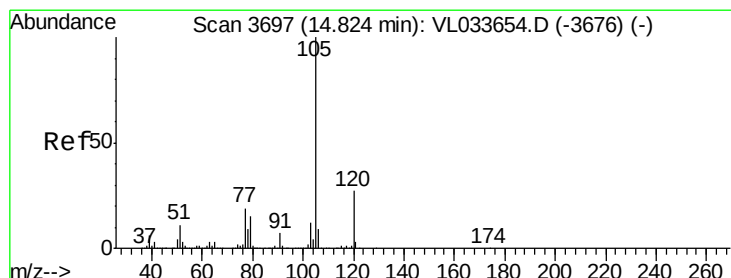
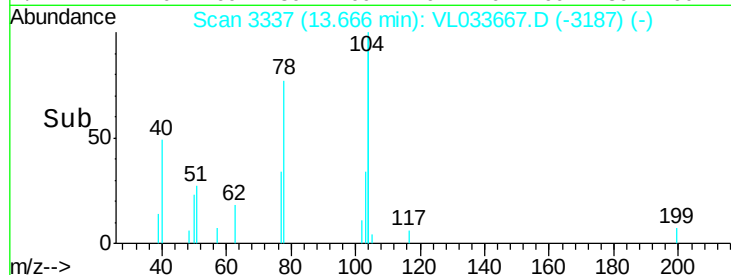
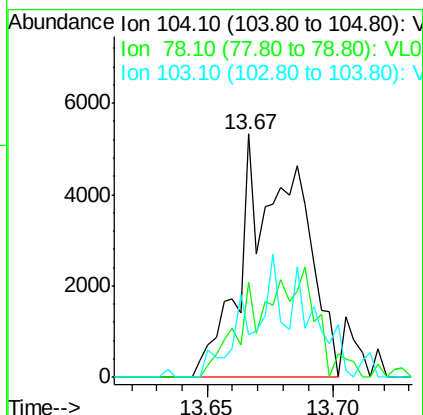
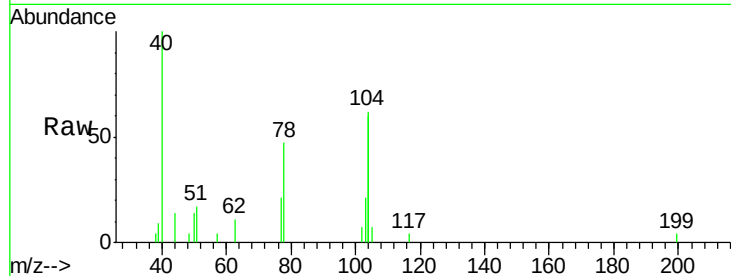
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:	104	Resp:	8546
Ion	Ratio	Lower	Upper
104	100		
78	49.5	43.0	64.6
103	48.4	38.1	57.1

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#62

Isopropylbenzene

Concen: 0.066 ppbv

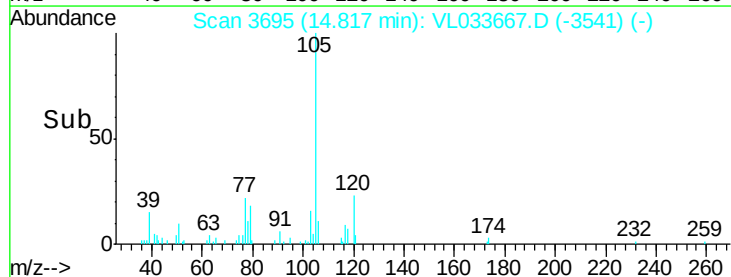
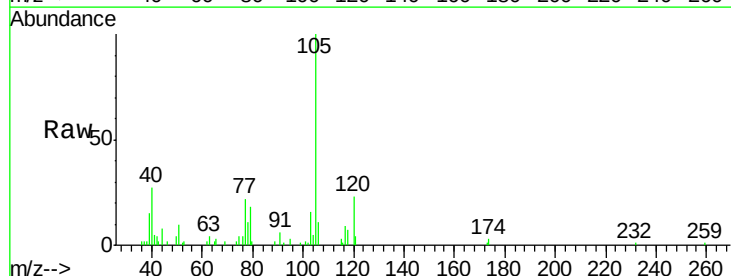
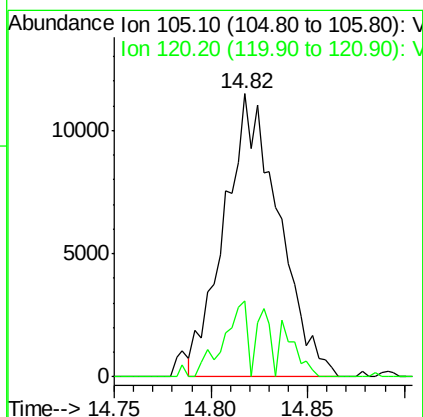
RT: 14.82 min Scan# 3695

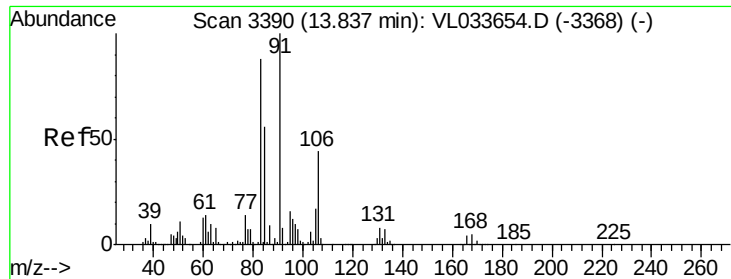
Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:	105	Resp:	22475
Ion	Ratio	Lower	Upper
105	100		
120	11.7	20.5	30.7#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.107 ppbv m

RT: 13.83 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

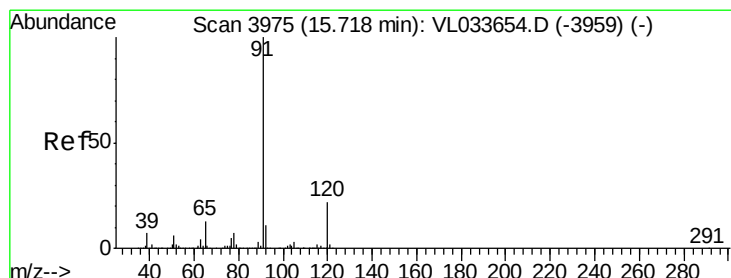
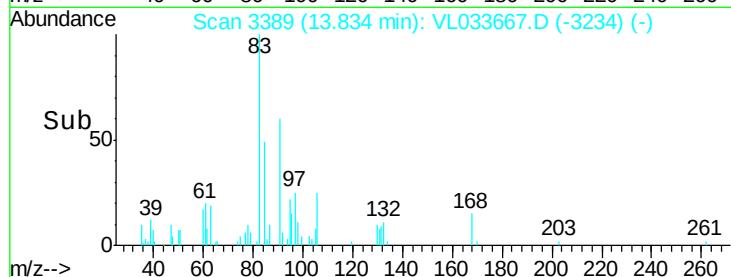
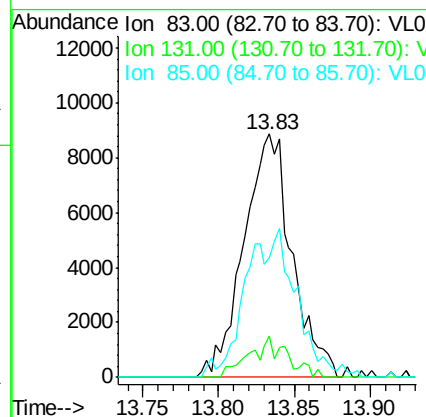
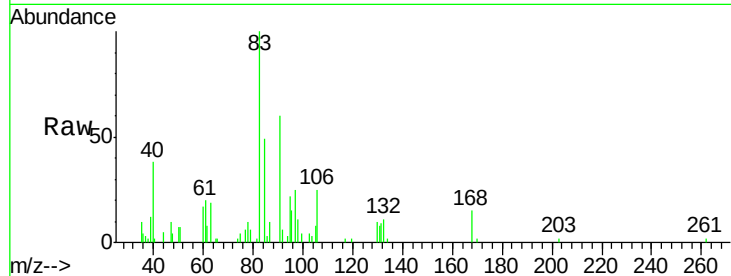
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:	83	Resp:	19549
Ion Ratio	Lower	Upper	
83	100		
131	13.2	4.8	14.3
85	0.0	32.5	97.4#

Manual Integrations
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#64

n-propylbenzene

Concen: 0.029 ppbv m

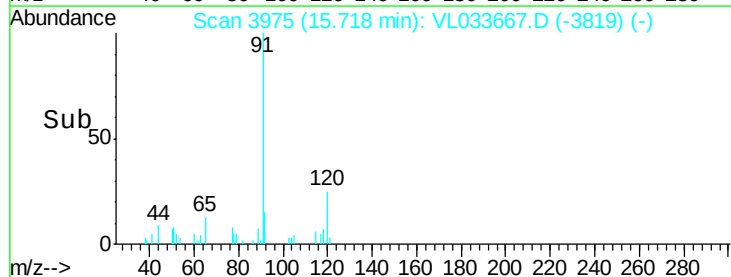
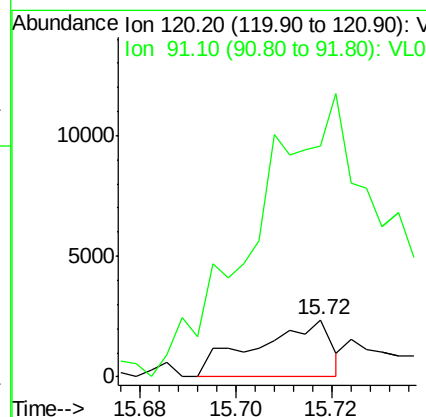
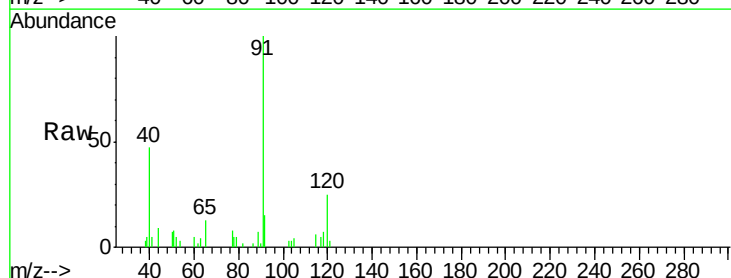
RT: 15.72 min Scan# 3975

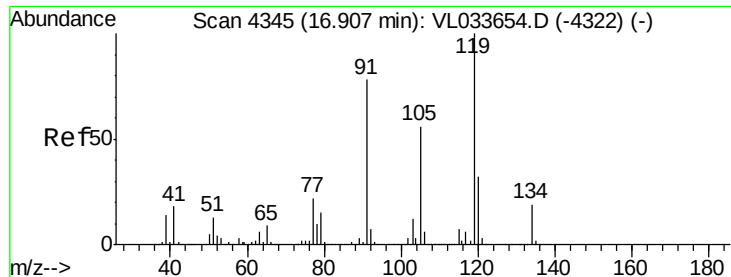
Delta R.T. 0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:	120	Resp:	2543
Ion Ratio	Lower	Upper	
120	100		
91	99.7	379.0	568.6#





#65

tert-Butylbenzene

Concen: 0.049 ppbv m

RT: 16.91 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

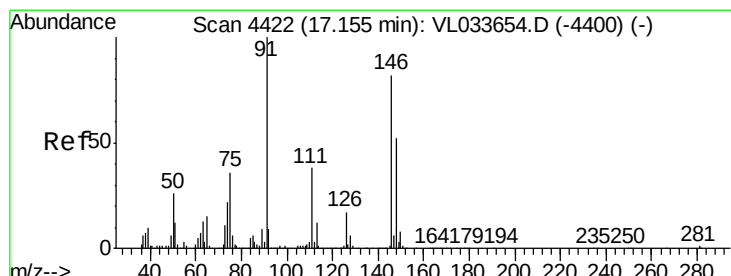
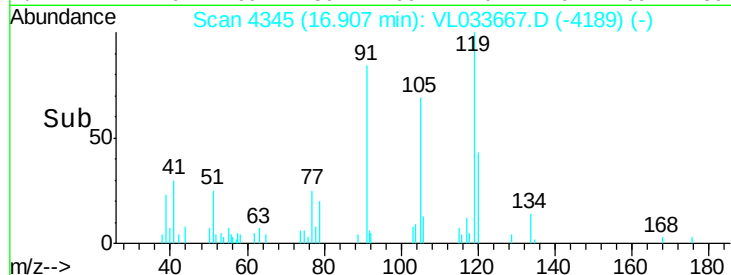
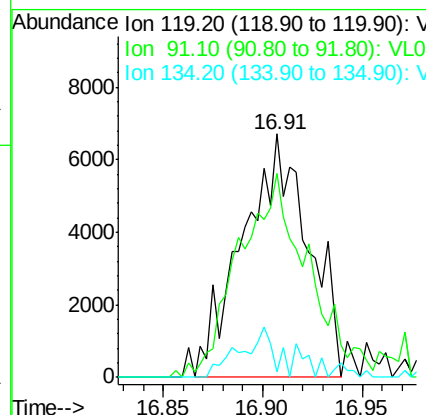
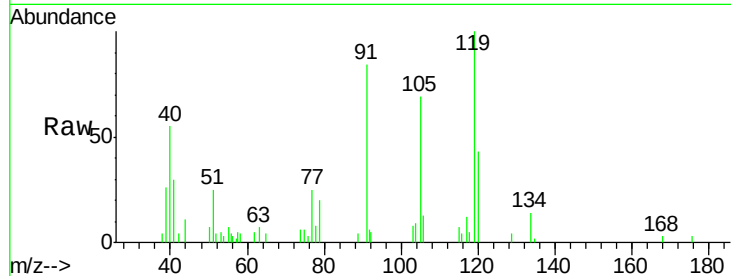
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:	119	Resp:	15339
Ion Ratio	Lower	Upper	
119	100		
91	88.5	65.9	98.9
134	14.8	15.5	23.3#

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.072 ppbv m

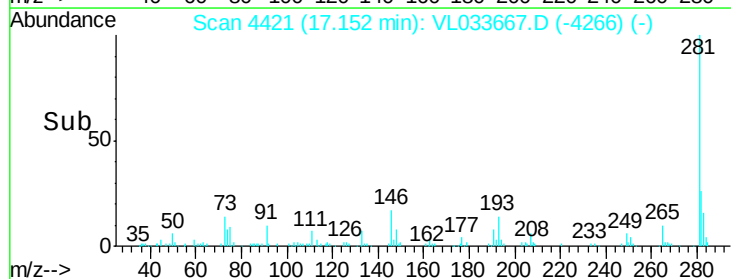
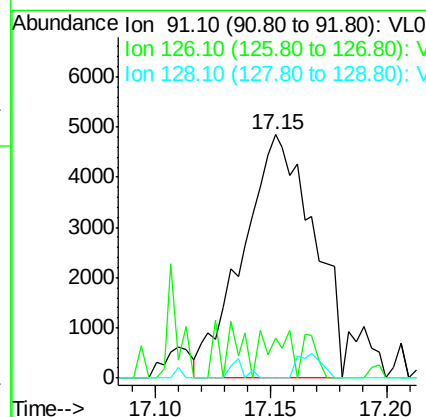
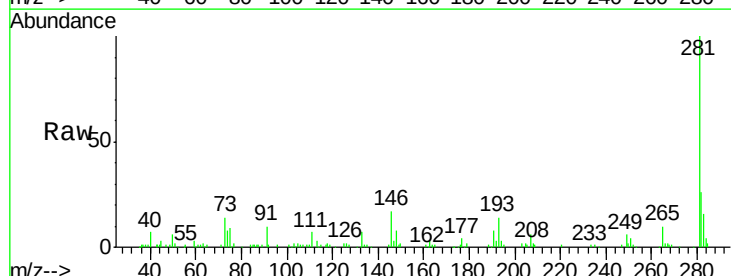
RT: 17.15 min Scan# 4421

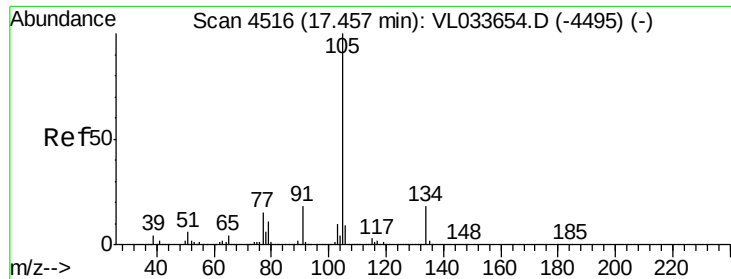
Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:	91	Resp:	10234
Ion Ratio	Lower	Upper	
91	100		
126	0.0	13.4	20.2#
128	4.9	4.4	6.6





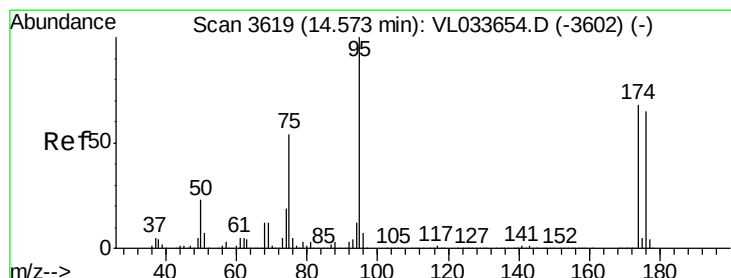
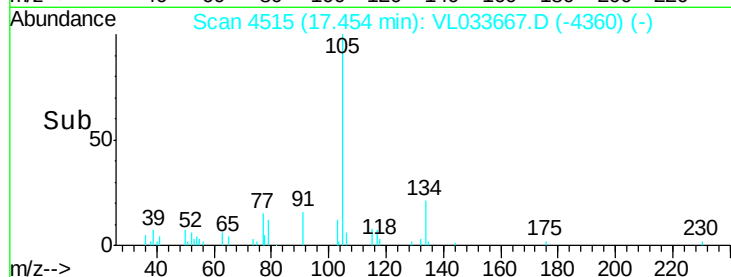
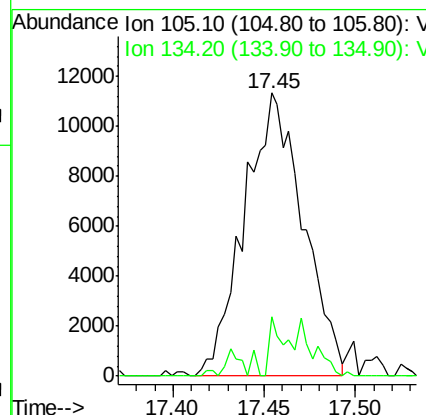
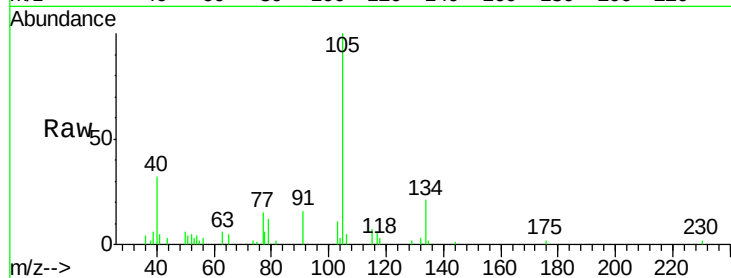
#67
 sec-Butylbenzene
 Concen: 0.058 ppbv m
 RT: 17.45 min Scan# 4515
 Delta R.T. -0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion: 105 Resp: 25405
 Ion Ratio Lower Upper
 105 100
 134 14.7 14.6 22.0

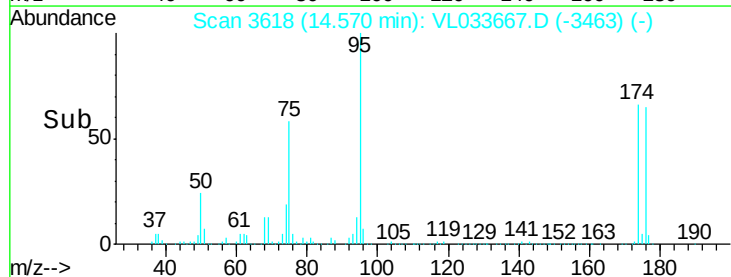
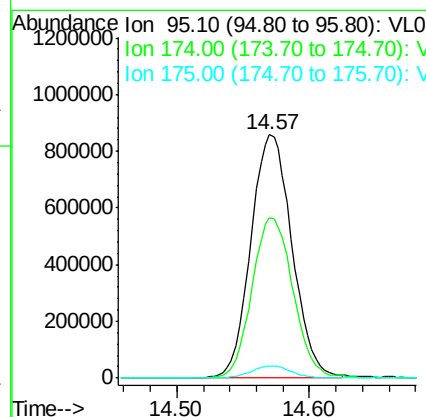
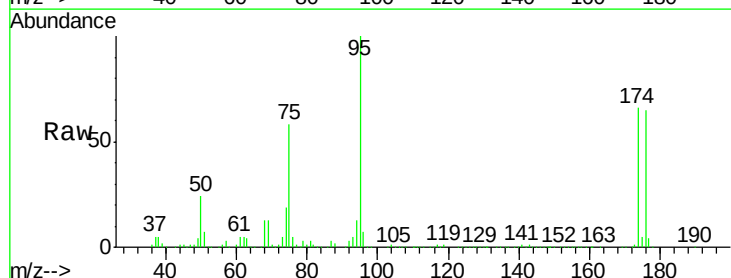
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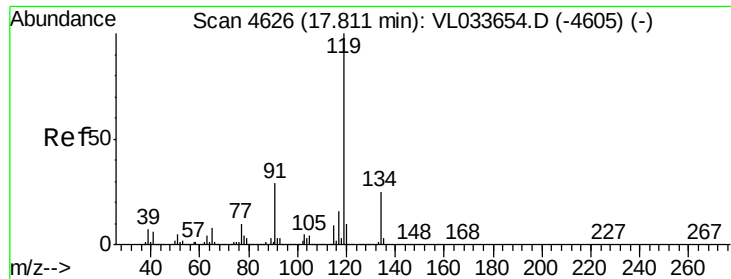
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.446 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Tgt Ion: 95 Resp: 1848642
 Ion Ratio Lower Upper
 95 100
 174 66.5 54.0 81.0
 175 4.9 3.8 5.8





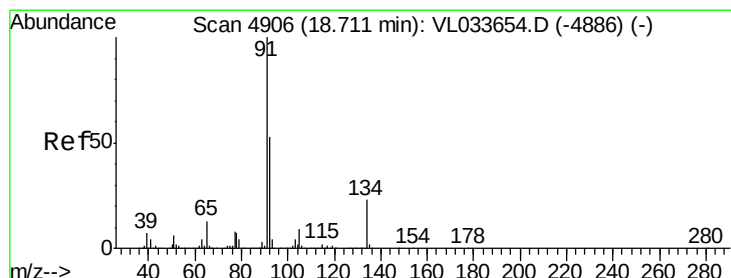
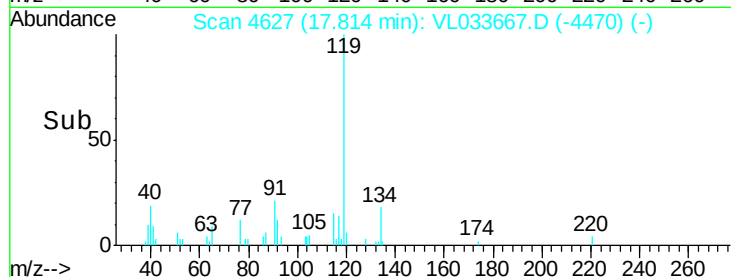
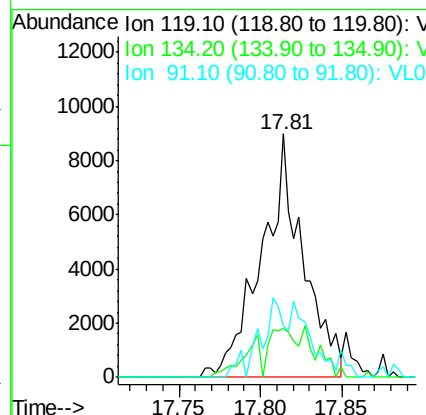
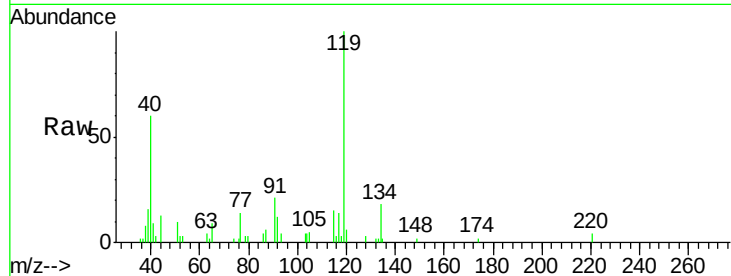
#69
 p-Isopropyltoluene
 Concen: 0.044 ppbv m
 RT: 17.81 min Scan# 4627
 Delta R.T. 0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.2	30.2#
91	36.7	23.4	35.2#

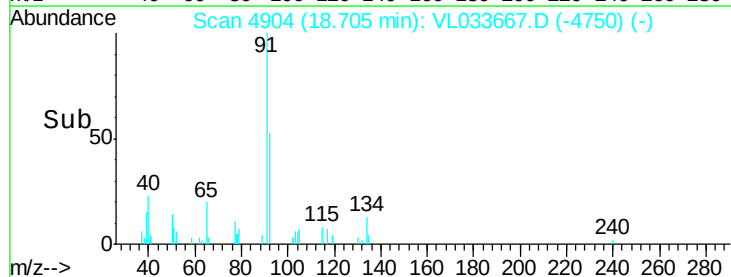
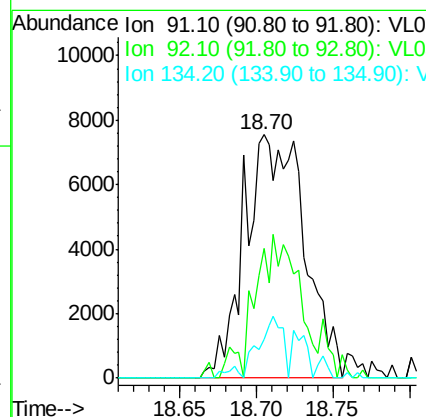
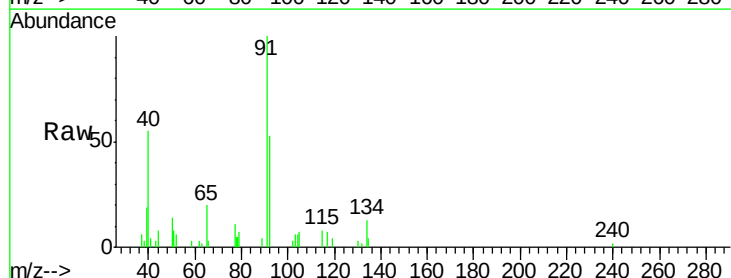
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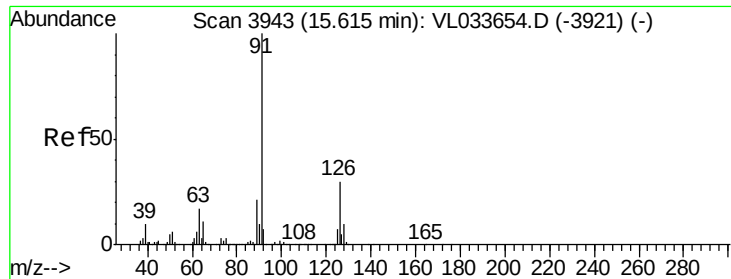
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#70
 n-Butylbenzene
 Concen: 0.053 ppbv m
 RT: 18.70 min Scan# 4904
 Delta R.T. -0.01 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	42.5	63.7#
134	0.0	18.0	27.0#





#71

2-Chlorotoluene

Concen: 0.060 ppbv m

RT: 15.62 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion: 91 Resp: 15169

Ion Ratio Lower Upper

91 100

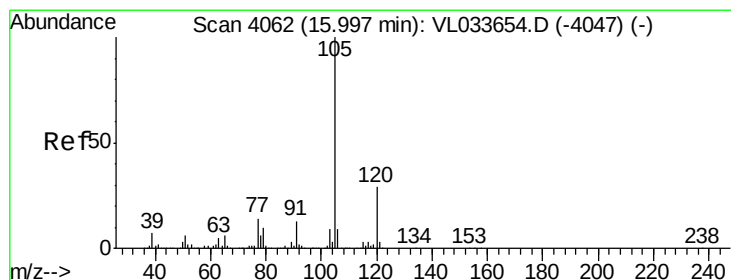
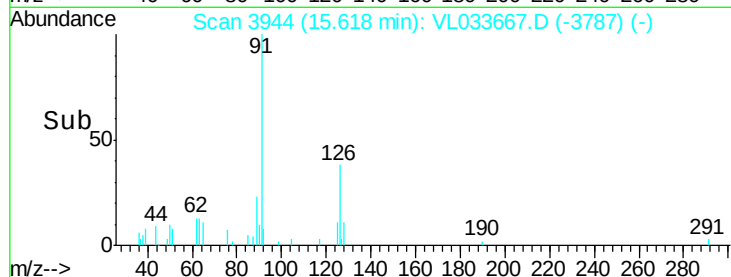
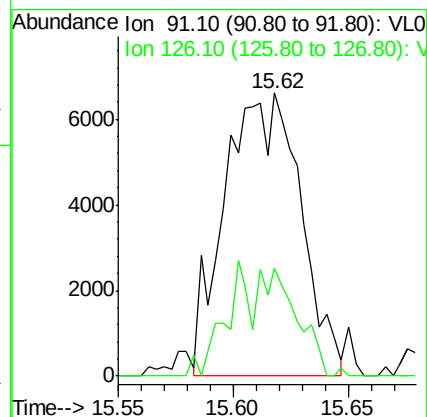
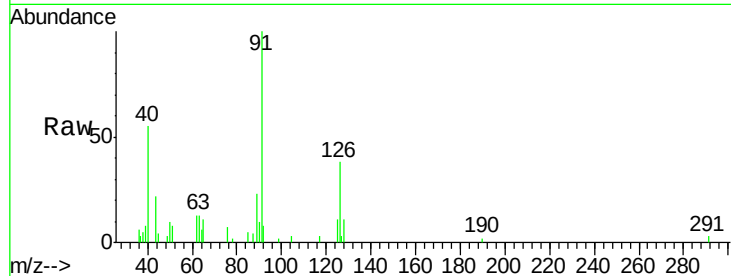
126 32.5 12.0 47.8

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#72

4-Ethyltoluene

Concen: 0.049 ppbv m

RT: 15.99 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:105 Resp: 14446

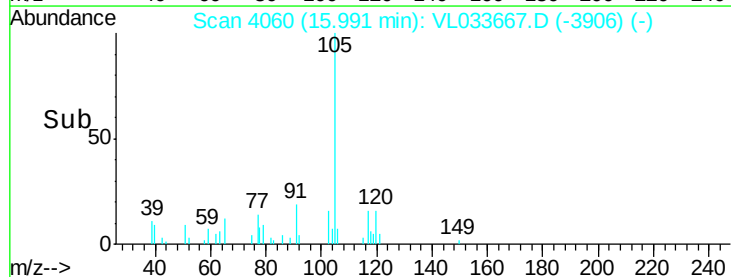
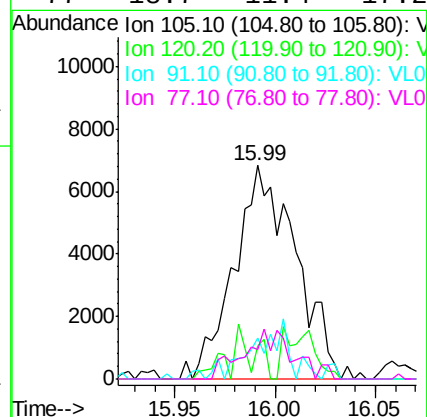
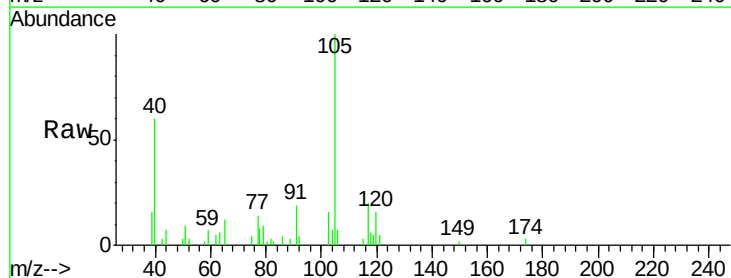
Ion Ratio Lower Upper

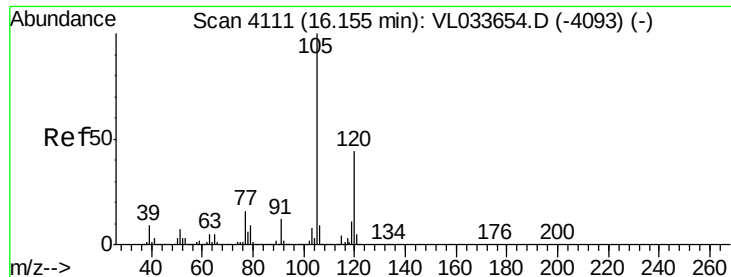
105 100

120 21.6 23.0 34.6#

91 0.0 10.5 15.7#

77 18.7 11.4 17.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.050 ppbv m

RT: 16.15 min Scan# 4110

Delta R.T. -0.00 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:105 Resp: 14316

Ion Ratio Lower Upper

105 100

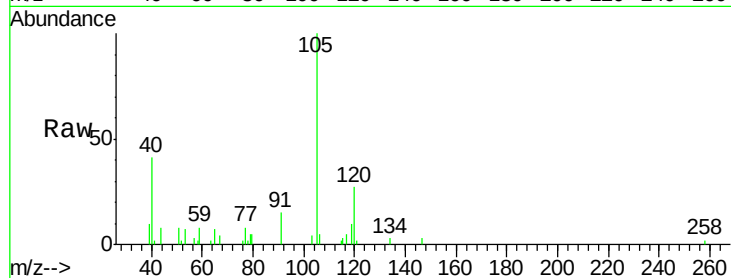
120 26.9 35.5 53.3#

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.15

8000

6000

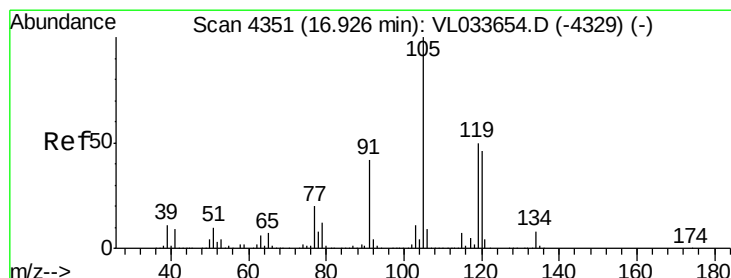
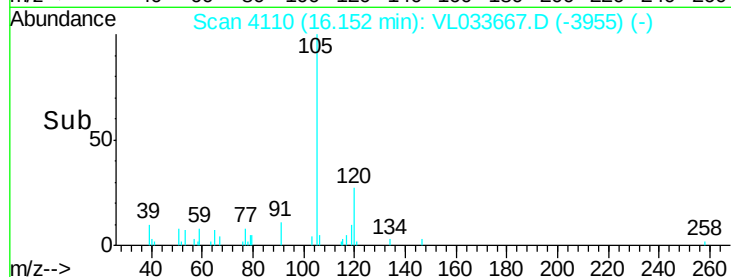
4000

2000

0

16.10 16.15 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.049 ppbv m

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:105 Resp: 15420

Ion Ratio Lower Upper

105 100

120 35.1 36.5 54.7#

91 38.8 33.7 50.5

77 22.5 16.3 24.5

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

16.92

12000

10000

8000

6000

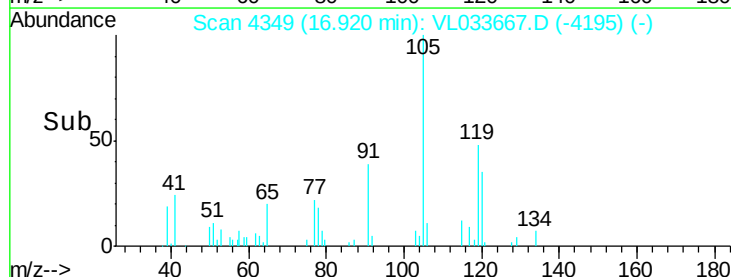
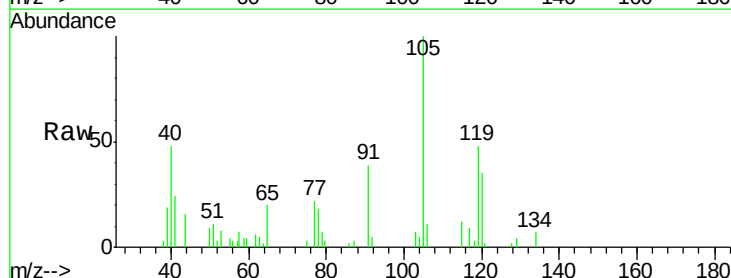
4000

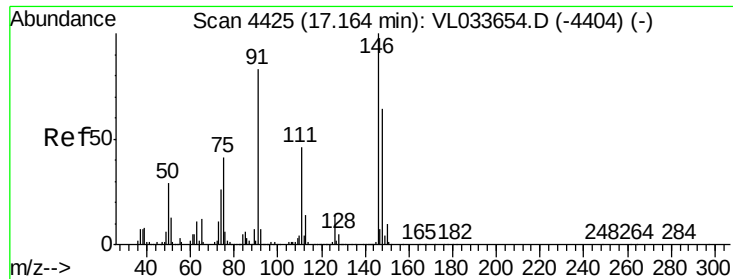
2000

0

16.85 16.90 16.95

Time-->





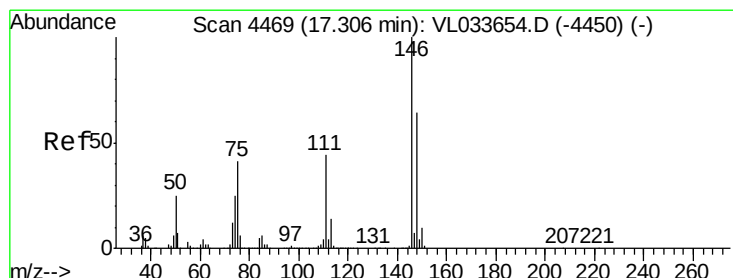
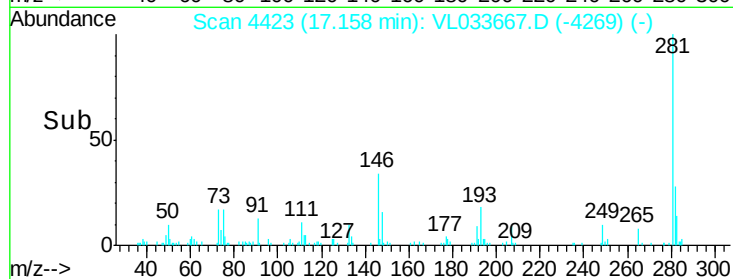
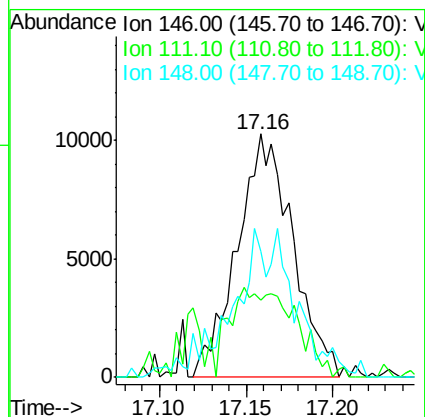
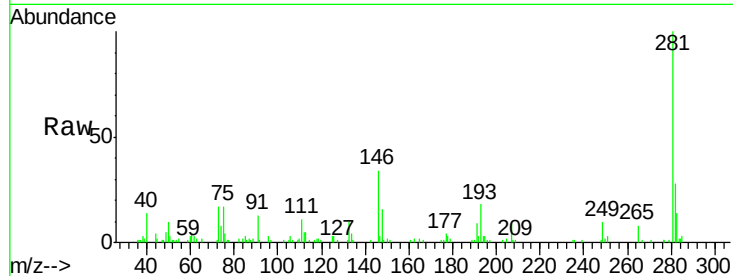
#75
 1,3-Dichlorobenzene
 Concen: 0.119 ppbv m
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.01 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.6	67.7#
148	0.0	31.8	95.4#

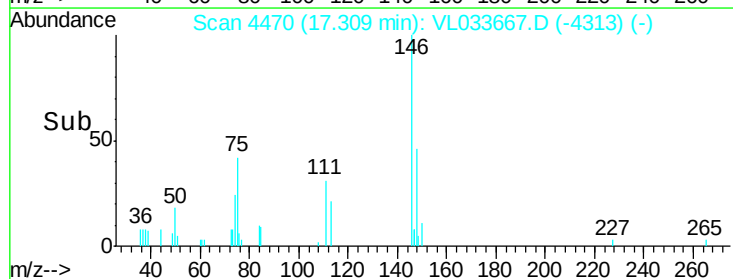
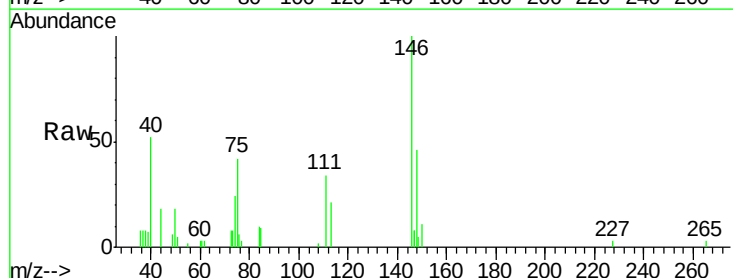
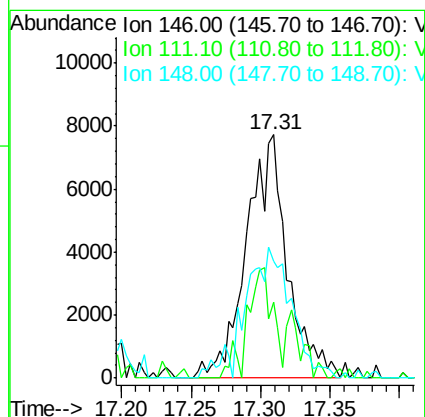
Manual Integrations
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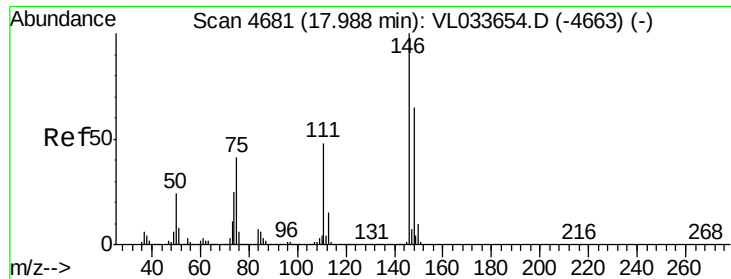
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 5/8/2019 12:07:04 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.087 ppbv m
 RT: 17.31 min Scan# 4470
 Delta R.T. 0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.0	66.0#
148	0.0	32.1	96.5#





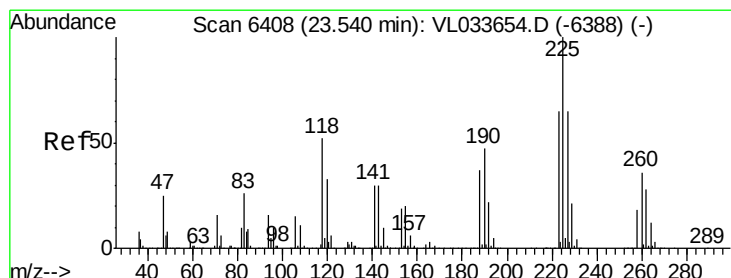
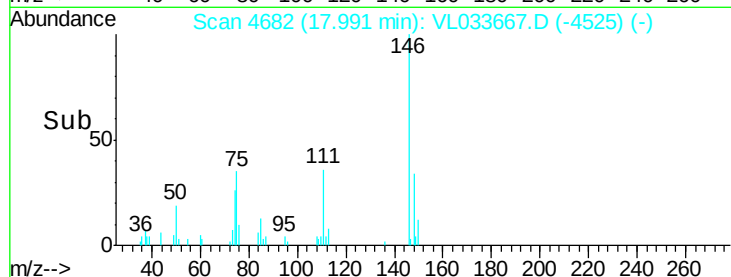
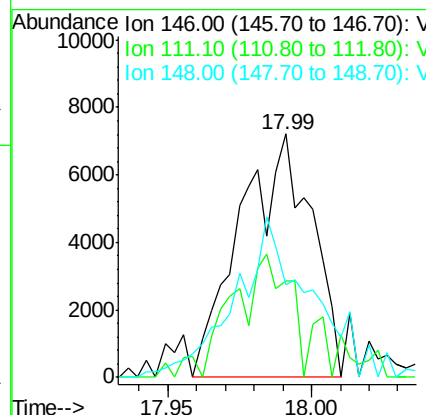
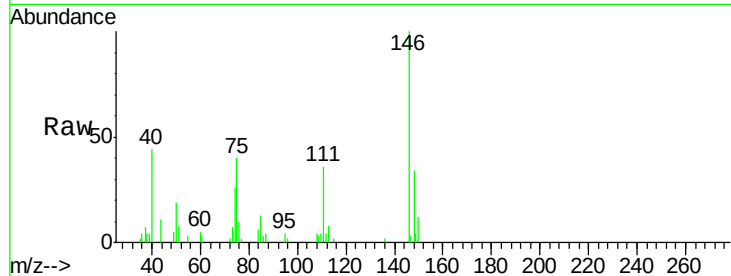
#77
 1,2-Dichlorobenzene
 Concen: 0.070 ppbv m
 RT: 17.99 min Scan# 4682
 Delta R.T. 0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.3	23.4	70.0
148	70.4	31.9	95.9

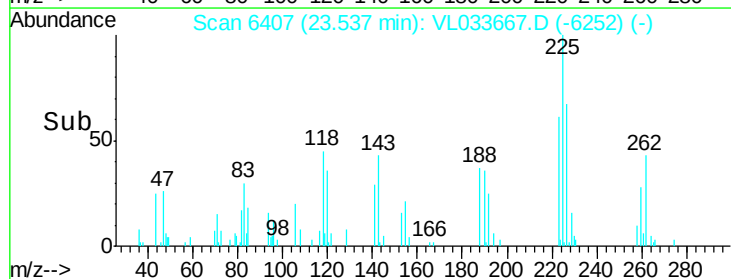
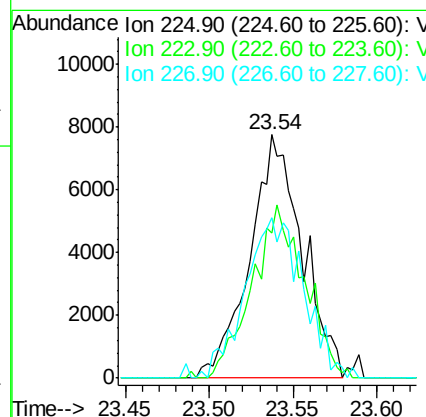
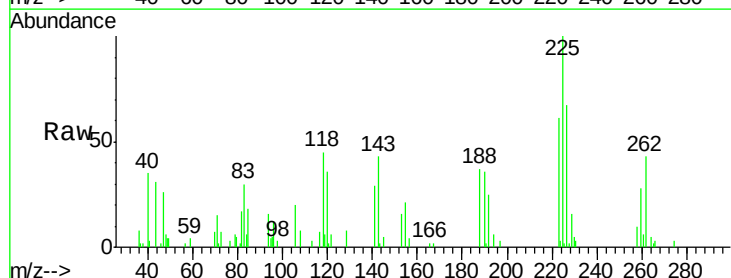
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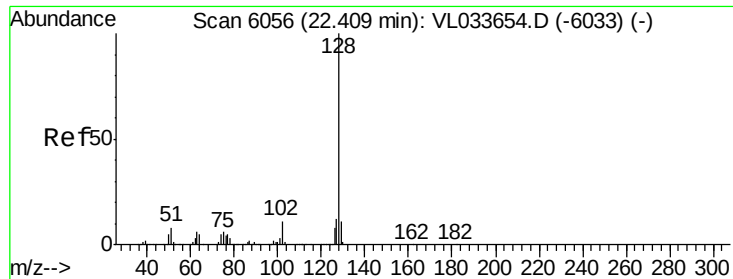
MMDadoda
 5/8/2019 12:07:04 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.119 ppbv m
 RT: 23.54 min Scan# 6407
 Delta R.T. -0.00 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	71.5	50.7	76.1
227	73.9	51.4	77.2





#79

Naphthalene

Concen: 0.053 ppbv m

RT: 22.42 min Scan# 6060

Delta R.T. 0.01 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Instrument :

MSVOA_L

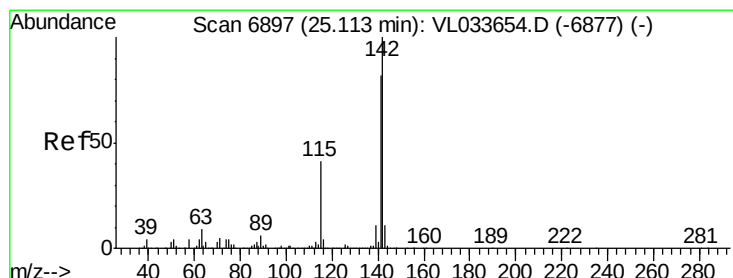
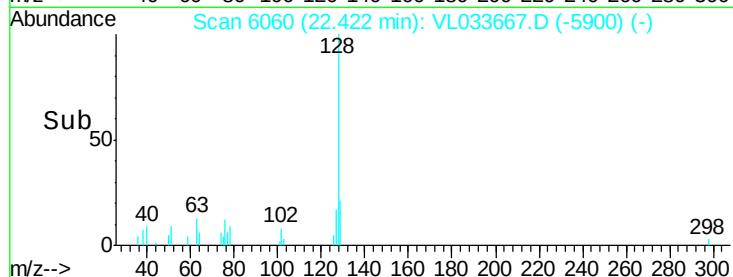
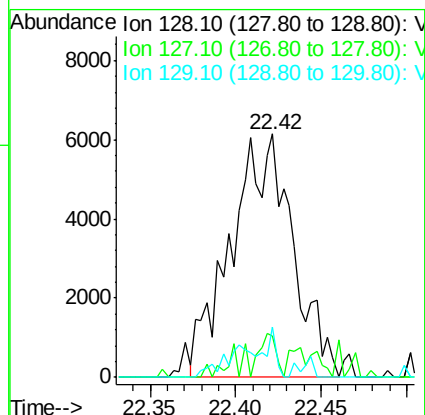
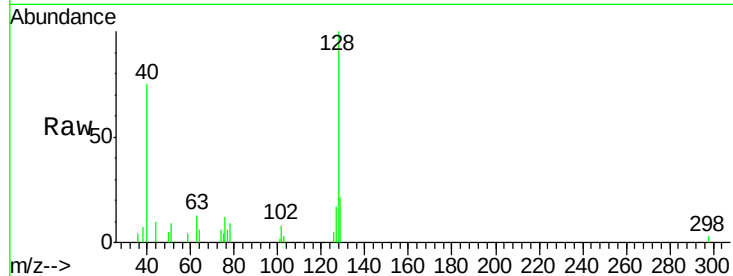
ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

Tot Ion:	128	Resp:	15404
Ion Ratio	Lower	Upper	
128	100		
127	16.8	9.8	14.8#
129	20.7	8.8	13.2#

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#80

Naphthalene, 2-methyl-

Concen: 0.044 ppbv

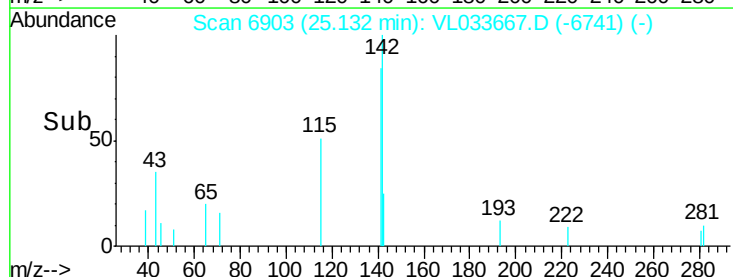
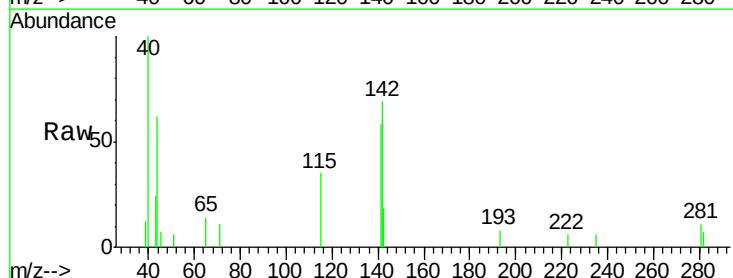
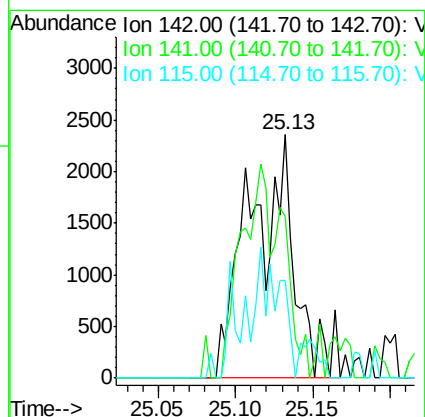
RT: 25.13 min Scan# 6903

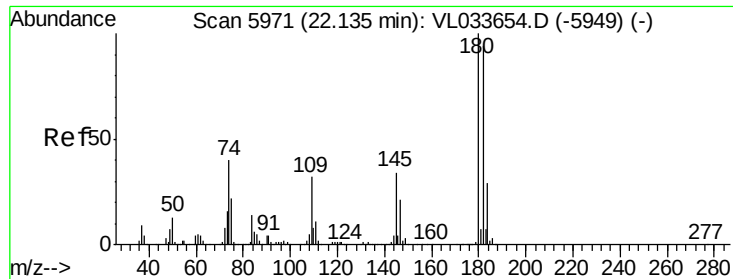
Delta R.T. 0.02 min

Lab File: VL033667.D

Acq: 6 May 2019 20:27

Tgt Ion:	142	Resp:	4771
Ion Ratio	Lower	Upper	
142	100		
141	84.0	67.9	101.9
115	48.1	34.2	51.4





#81
 1,2,4-Trichlorobenzene
 Concen: 0.073 ppbv m
 RT: 22.12 min Scan# 5967
 Delta R.T. -0.01 min
 Lab File: VL033667.D
 Acq: 6 May 2019 20:27

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.6	77.4	116.0
184	16.8	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:07:04 PM

