

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070819\
 Data File : VL034014.D
 Acq On : 8 Jul 2019 16:40
 Operator : SY/AP
 Sample : K3591-15 0.4 PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/10/2019 8:50:10 AM

Quant Time: Jul 09 08:41:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 09
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	969073	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2714373	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.19	117	2502331	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2095854	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	114807	0.574 ppbv	93
3) Chlorodifluoromethane	3.00	51	53766	0.449 ppbv	100
4) Chloromethane	3.15	50	30416	0.442 ppbv #	85
5) Vinyl Chloride	3.27	62	32126	0.415 ppbv	97
6) Bromomethane	3.49	94	21910	0.480 ppbv #	77
7) Chloroethane	3.58	64	13441	0.486 ppbv	96
8) Dichlorotetrafluoroethane	3.20	85	90098	0.462 ppbv	94
9) Propene	3.02	41	16734m	0.380 ppbv	
10) Heptane	8.21	43	35528m	0.322 ppbv	
11) Trichlorofluoromethane	3.98	101	98521	0.438 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.53	101	66630	0.419 ppbv	93
13) Ethanol	3.65	45	5579m	0.408 ppbv	
14) Bromoethene	3.76	108	25492	0.429 ppbv	93
15) Acetone	3.89	43	71944	0.442 ppbv	94
16) 1,3-Butadiene	3.34	39	24207	0.421 ppbv	93
17) tert-Butyl alcohol	4.36	59	57381m	0.442 ppbv	
18) 1,1-Dichloroethene	4.32	96	27707m	0.391 ppbv	
19) Isopropyl Alcohol	4.01	45	44922m	0.411 ppbv	
20) Methylene Chloride	4.38	84	32788m	0.461 ppbv	
21) Allyl Chloride	4.45	41	38521m	0.379 ppbv	
22) trans-1,2-Dichloroethene	4.93	96	32705m	0.484 ppbv	
23) Vinyl Acetate	5.13	43	58708	0.361 ppbv #	89
24) 1,1-Dichloroethane	5.06	63	63622m	0.441 ppbv	
25) Ethyl Acetate	5.74	43	86863	0.390 ppbv	96
26) Hexane	5.75	57	38593m	0.378 ppbv	
27) Carbon Disulfide	4.60	76	61130	0.353 ppbv #	81
28) Methyl tert-Butyl Ether	5.09	73	62879	0.364 ppbv	91
29) Chloroform	5.81	83	81976	0.428 ppbv	89
30) Cyclohexane	7.22	84	28096m	0.357 ppbv	
31) cis-1,2-Dichloroethene	5.61	61	33911	0.344 ppbv	94
32) 1,1,1-Trichloroethane	6.58	97	79334m	0.408 ppbv	
34) 2-Butanone	5.31	43	49481m	0.344 ppbv	
35) Carbon Tetrachloride	7.09	117	88747m	0.413 ppbv	
36) Benzene	6.96	78	67879m	0.320 ppbv	
37) 1,2-Dichloroethane	6.37	62	62184	0.397 ppbv	97
38) Trichloroethene	7.93	130	30718m	0.325 ppbv	
39) 1,2-Dichloropropane	7.70	63	27195m	0.344 ppbv	
40) 1,4-Dioxane	7.96	88	10271m	0.282 ppbv	
41) Tetrahydrofuran	6.14	42	18768m	0.266 ppbv	
42) Bromodichloromethane	7.87	83	82203	0.392 ppbv	98
43) Methyl Methacrylate	8.10	69	24984m	0.310 ppbv	

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Manual Integrations
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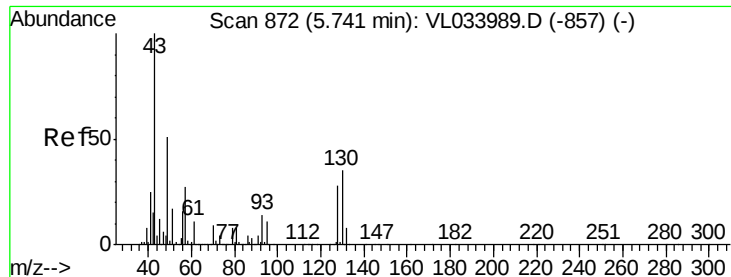
MMDadoda
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 09
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.95	57	103898m	0.283	ppbv	
45) t-1,3-Dichloropropene	9.37	75	24665m	0.234	ppbv	
46) cis-1,3-Dichloropropene	8.79	75	28954m	0.237	ppbv	
47) 1,1,2-Trichloroethane	9.57	97	38063m	0.383	ppbv	
48) Dibromochloromethane	10.40	129	62208m	0.328	ppbv	
49) Bromoform	13.16	173	58662m	0.362	ppbv	
50) 4-Methyl-2-Pentanone	8.85	43	58906m	0.276	ppbv	
51) 2-Hexanone	10.25	43	38693m	0.225	ppbv	
52) Tetrachloroethene	11.34	164	30348m	0.332	ppbv	
53) Toluene	9.90	91	57512m	0.237	ppbv	
54) 1,2-Dibromoethane	10.71	107	49703m	0.339	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.24	131	51806m	0.463	ppbv	
57) Chlorobenzene	12.25	112	82905m	0.416	ppbv	
58) Ethyl Benzene	12.81	91	79530m	0.264	ppbv	
59) m/p-Xylene	13.10	91	165296m	0.607	ppbv	
60) o-Xylene	13.80	91	80736m	0.296	ppbv	
61) Styrene	13.64	104	40101m	0.222	ppbv	
62) Isopropylbenzene	14.78	105	117734	0.281	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.79	83	87894m	0.417	ppbv	
64) n-propylbenzene	15.69	120	31496m	0.290	ppbv	
65) tert-Butylbenzene	16.87	119	104695m	0.294	ppbv	
66) Benzyl Chloride	17.12	91	53958m	0.296	ppbv	
67) sec-Butylbenzene	17.42	105	161276	0.322	ppbv	98
69) p-Isopropyltoluene	17.77	119	116230m	0.282	ppbv	
70) n-Butylbenzene	18.67	91	128697m	0.297	ppbv	
71) 2-Chlorotoluene	15.58	91	75615m	0.247	ppbv	
72) 4-Ethyltoluene	15.96	105	89477m	0.256	ppbv	
73) 1,3,5-Trimethylbenzene	16.12	105	92351m	0.284	ppbv	
74) 1,2,4-Trimethylbenzene	16.88	105	122838	0.341	ppbv #	87
75) 1,3-Dichlorobenzene	17.12	146	102891m	0.449	ppbv	
76) 1,4-Dichlorobenzene	17.26	146	80419m	0.373	ppbv	
77) 1,2-Dichlorobenzene	17.95	146	78744m	0.371	ppbv	
78) Hexachloro-1,3-Butadiene	23.51	225	78916m	0.437	ppbv	
79) Naphthalene	22.35	128	73014m	0.241	ppbv	
80) Naphthalene, 2-methyl-	25.09	142	28281	0.256	ppbv	95
81) 1,2,4-Trichlorobenzene	22.08	180	63137m	0.324	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

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MSVOA_L

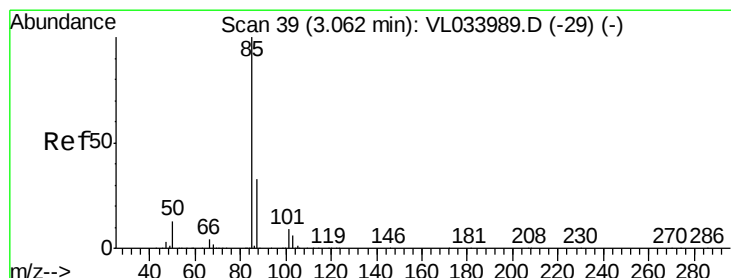
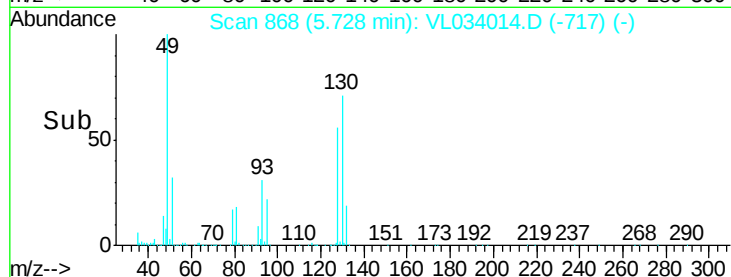
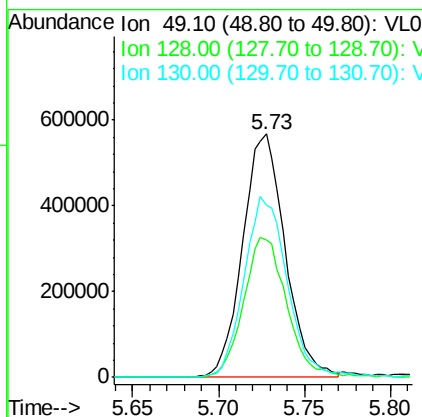
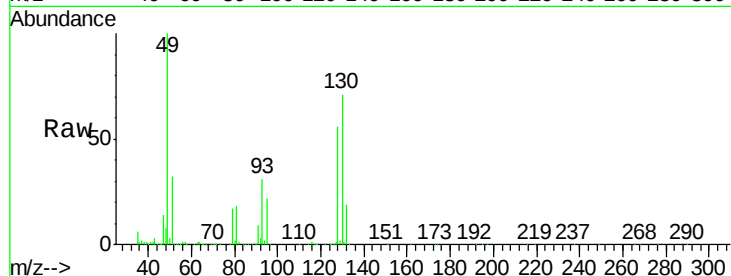
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
49	100		
128	58.8	27.9	83.6
130	76.8	35.8	107.4

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#2

Dichlorodifluoromethane

Concen: 0.574 ppbv

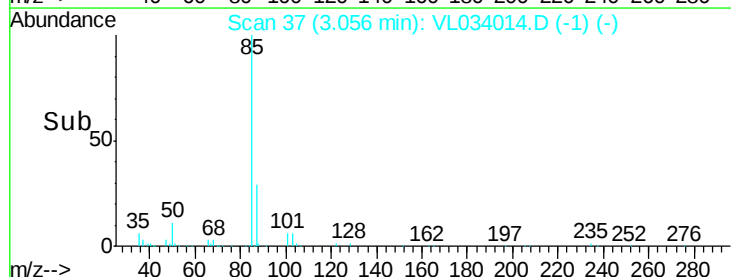
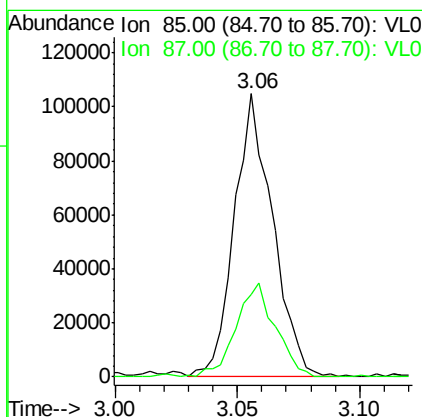
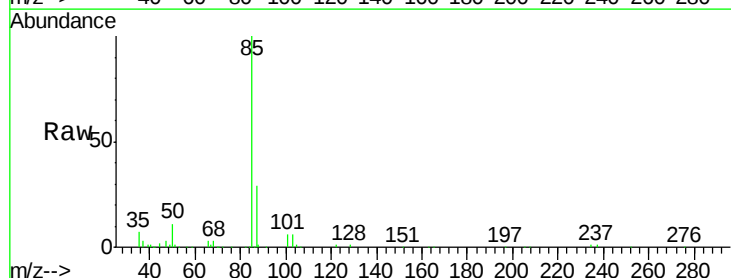
RT: 3.06 min Scan# 37

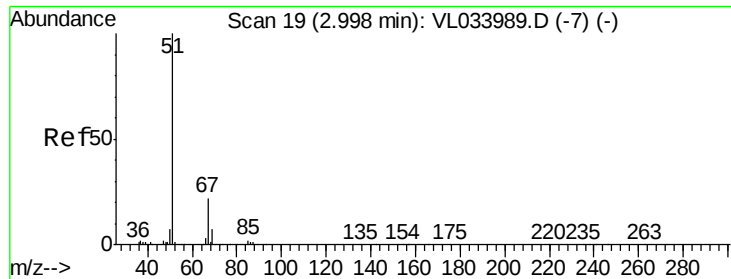
Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.8	26.0	39.0





#3

Chlorodifluoromethane

Concen: 0.449 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion: 51 Resp: 53766

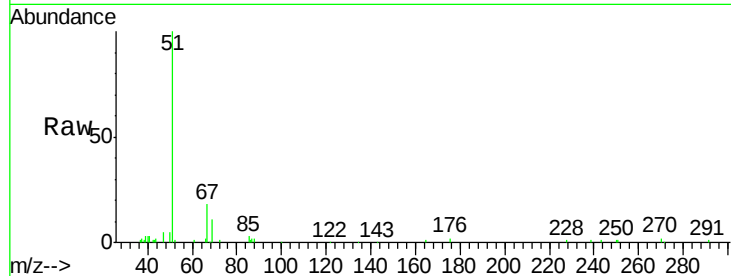
Ion Ratio Lower Upper

51 100

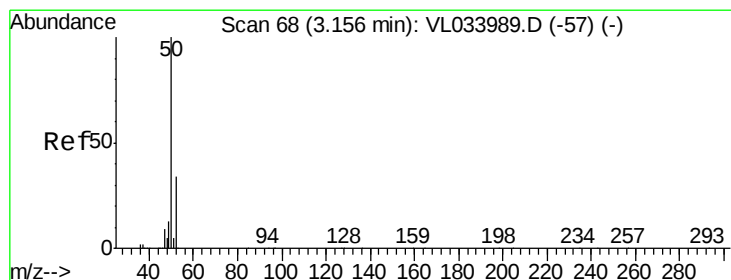
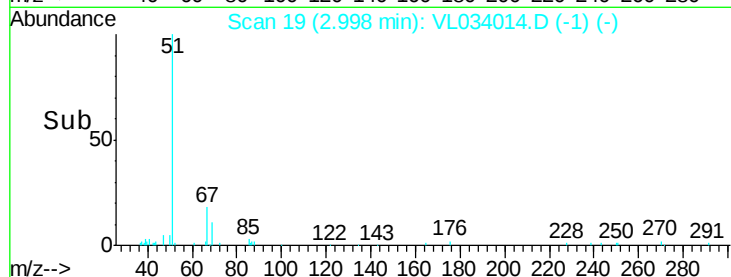
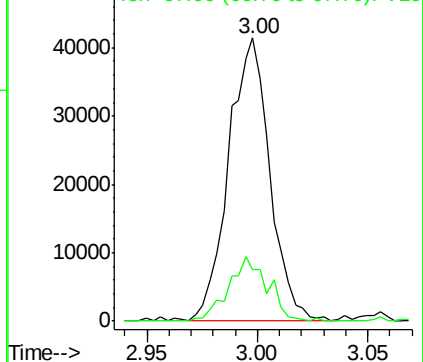
67 21.6 17.3 25.9

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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: 0.442 ppbv

RT: 3.15 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL034014.D

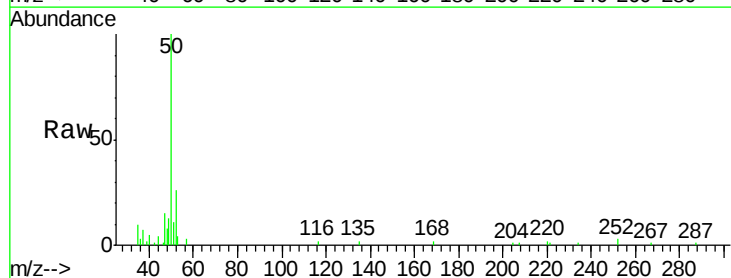
Acq: 8 Jul 2019 16:40

Tgt Ion: 50 Resp: 30416

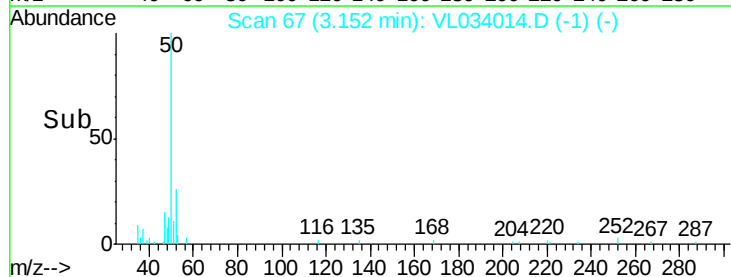
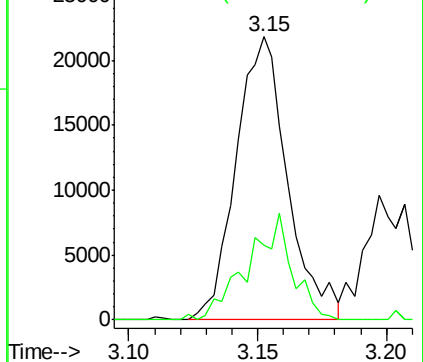
Ion Ratio Lower Upper

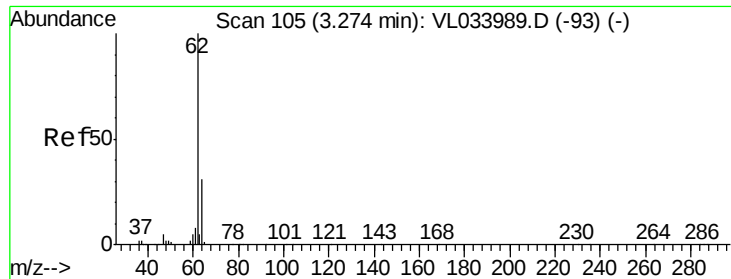
50 100

52 25.7 27.4 41.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.415 ppbv

RT: 3.27 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

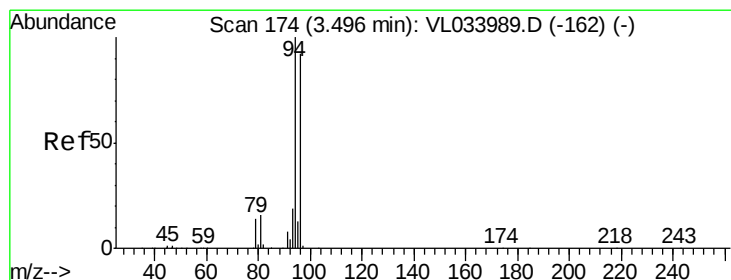
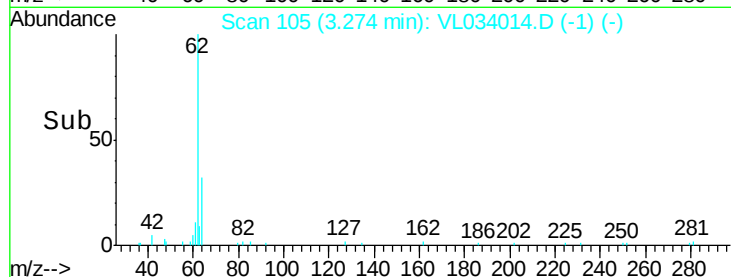
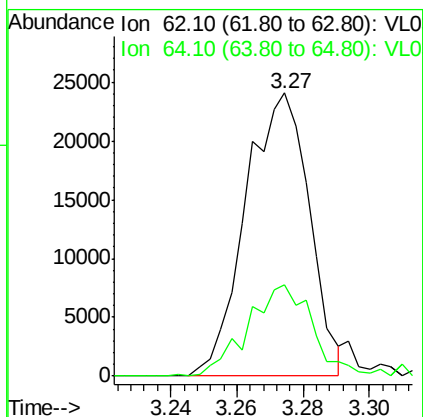
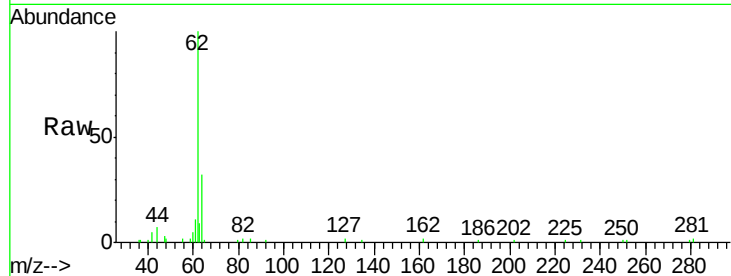
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
62	100		
64	32.3	24.4	36.6

Manual Integrations
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#6

Bromomethane

Concen: 0.480 ppbv

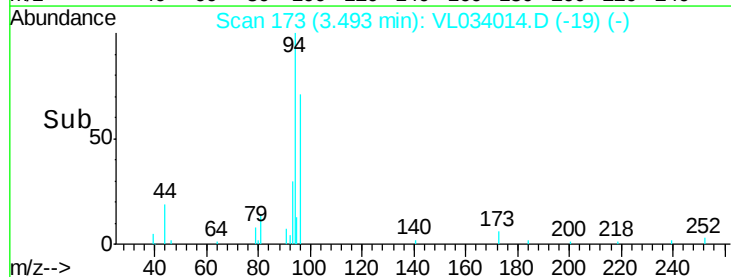
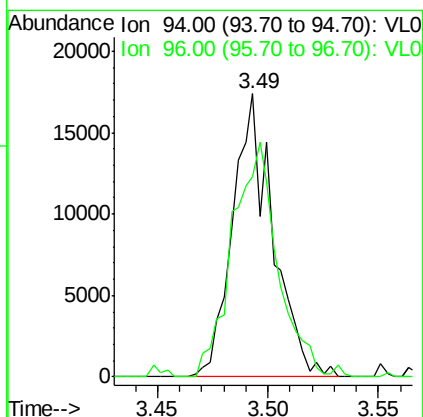
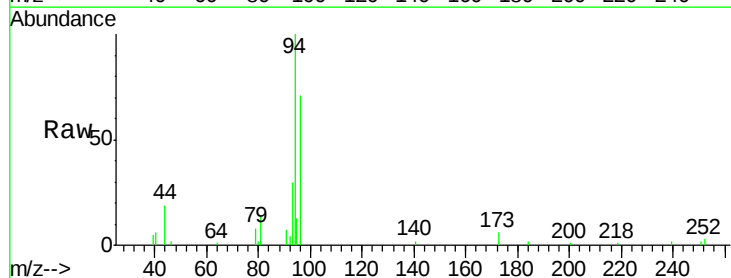
RT: 3.49 min Scan# 173

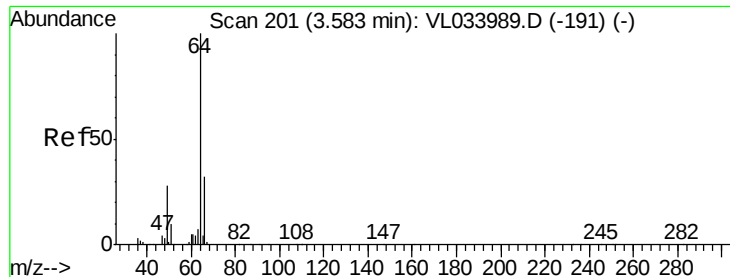
Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
94	100		
96	70.7	73.8	110.8#





#7

Chloroethane

Concen: 0.486 ppbv

RT: 3.58 min Scan# 199

Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion: 64 Resp: 13441

Ion Ratio Lower Upper

64 100

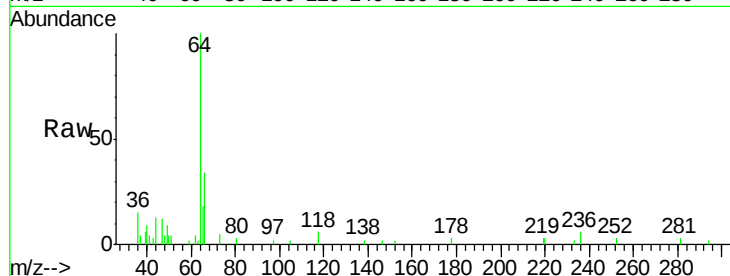
66 33.9 25.3 37.9

Manual Integrations

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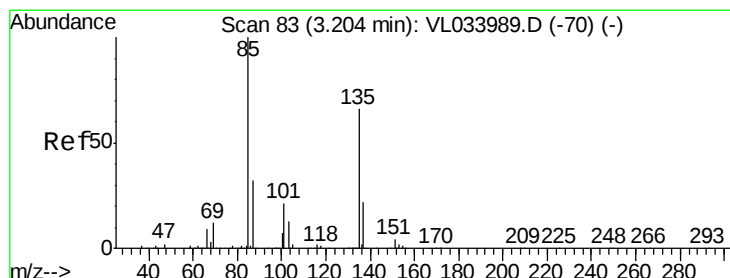
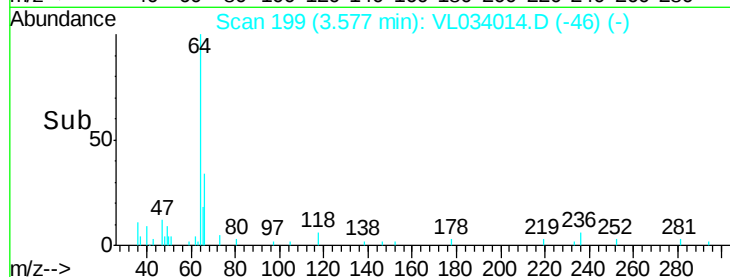
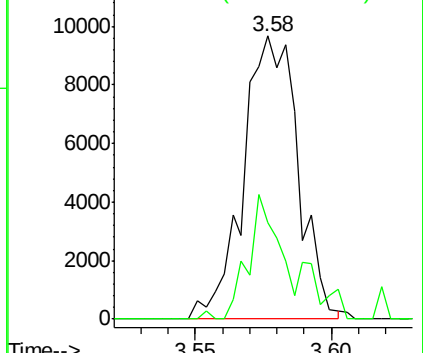
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.462 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034014.D

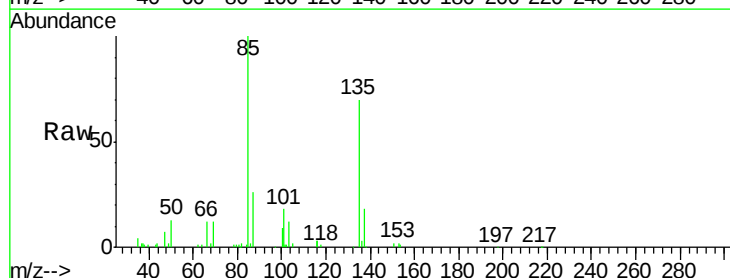
Acq: 8 Jul 2019 16:40

Tgt Ion: 85 Resp: 90098

Ion Ratio Lower Upper

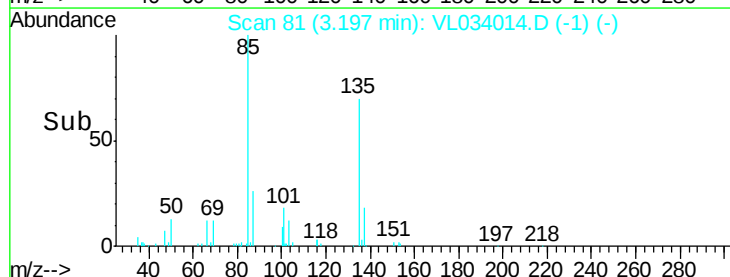
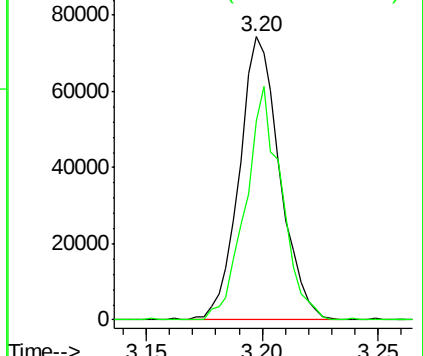
85 100

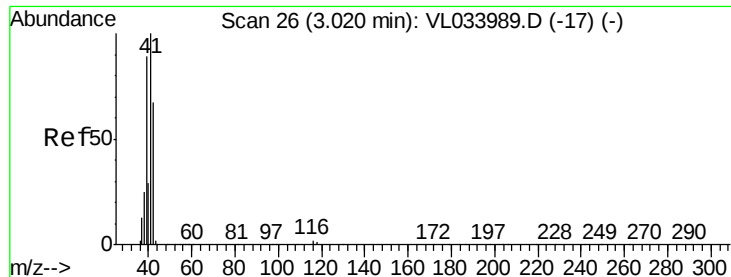
135 73.7 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.380 ppbv m

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

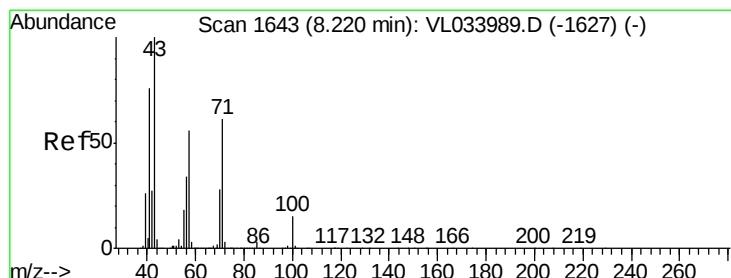
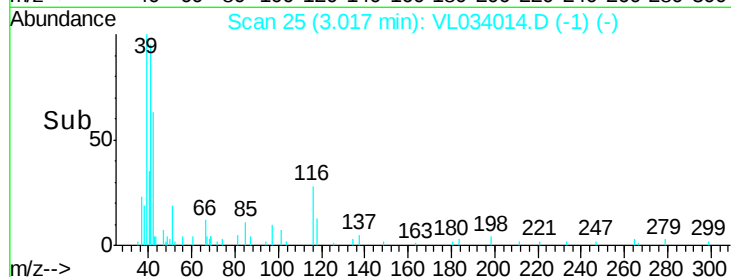
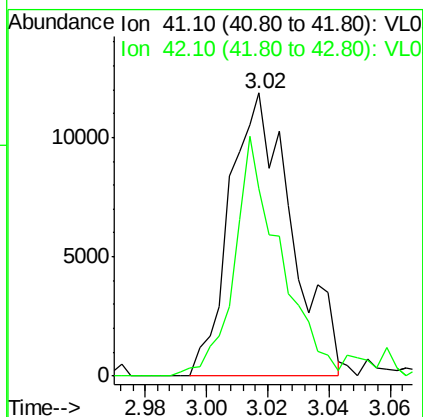
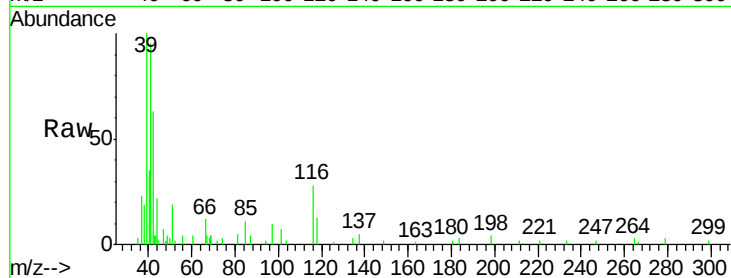
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion	41	Ratio	100	Resp	16734
Ion	41	100		Lower	Upper
	42	66.9		57.1	85.7

Manual Integrations
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#10

Heptane

Concen: 0.322 ppbv m

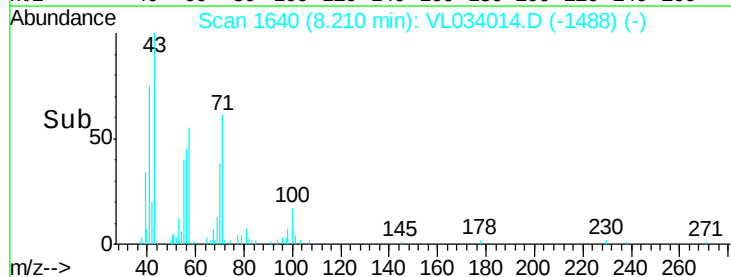
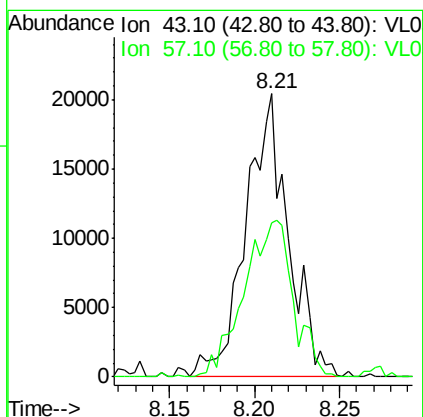
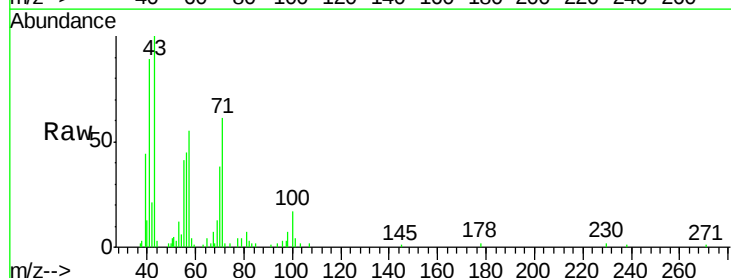
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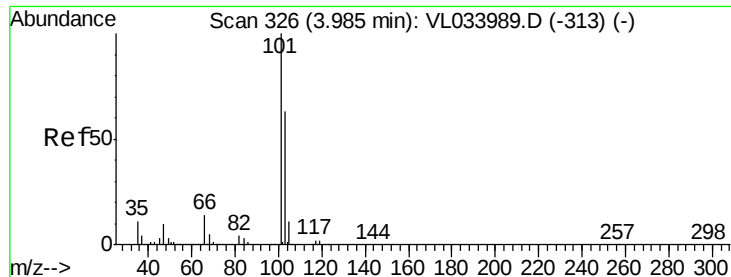
Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion	43	Ratio	100	Resp	35528
Ion	43	100		Lower	Upper
	57	0.0		44.6	66.8#





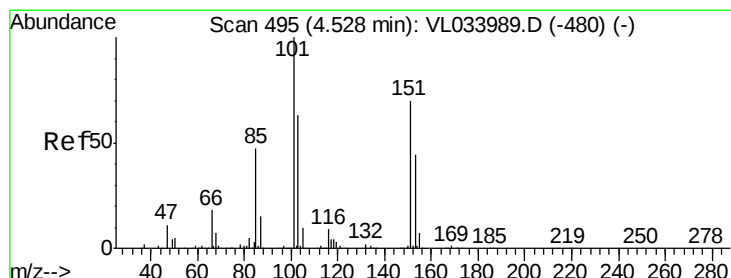
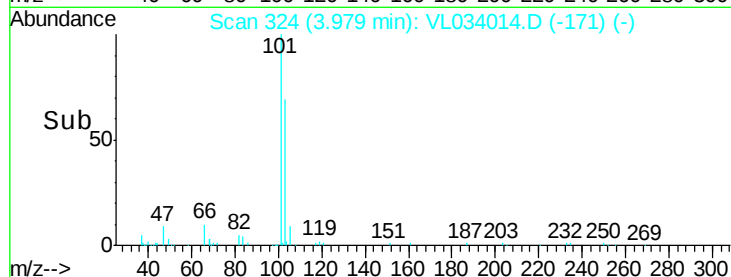
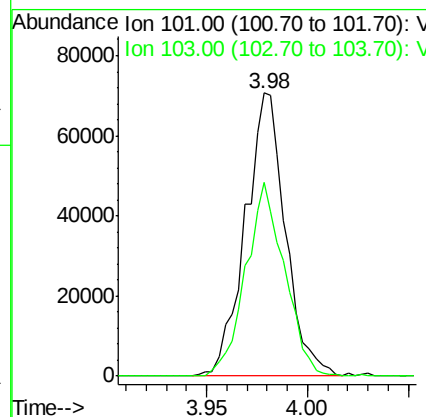
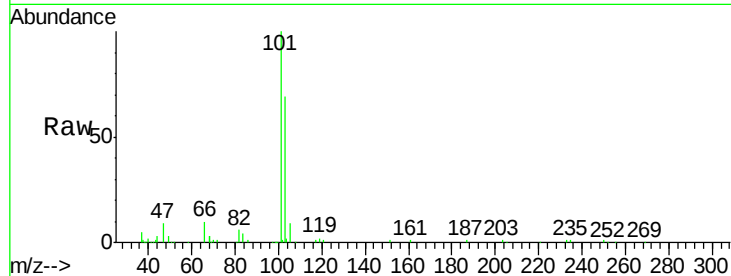
#11
 Trichlorofluoromethane
 Concen: 0.438 ppbv
 RT: 3.98 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	68.7	50.8	76.2

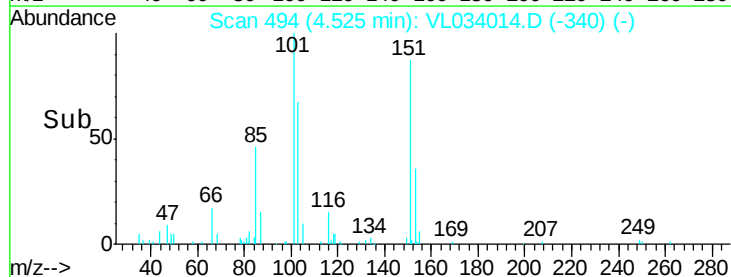
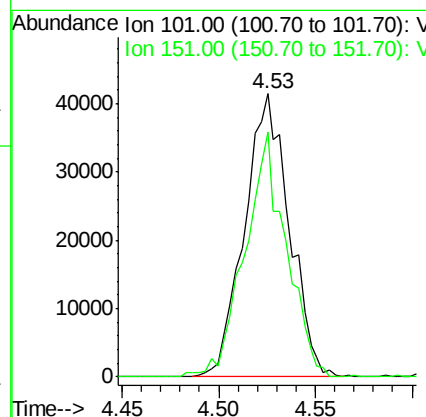
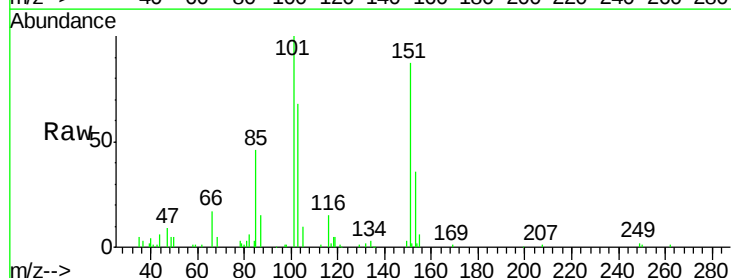
Manual Integrations
 APPROVED

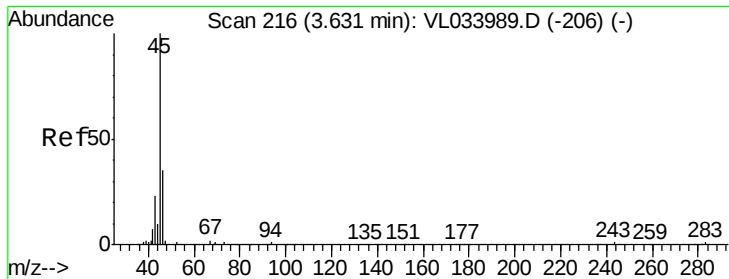
MMDadoda
 7/10/2019 8:50:10 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.419 ppbv
 RT: 4.53 min Scan# 494
 Delta R.T. -0.00 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
101	100		
151	79.7	59.0	88.4





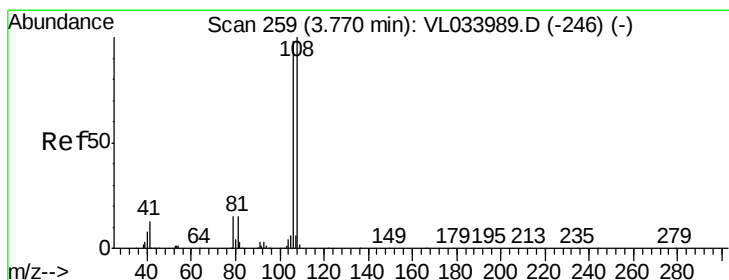
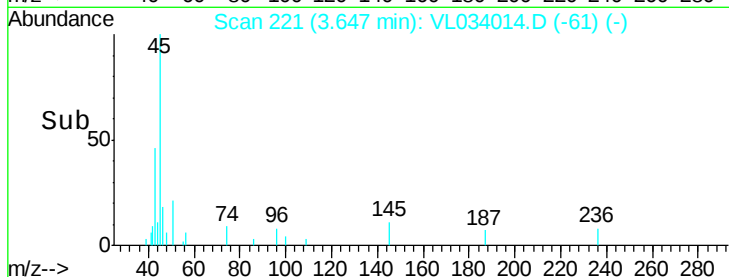
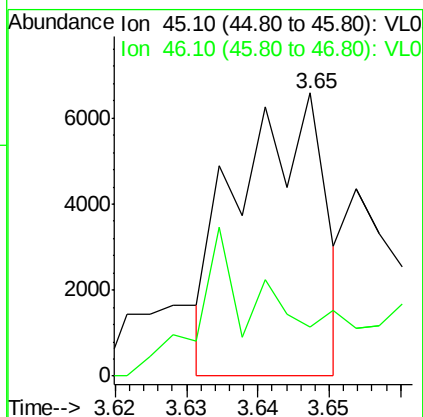
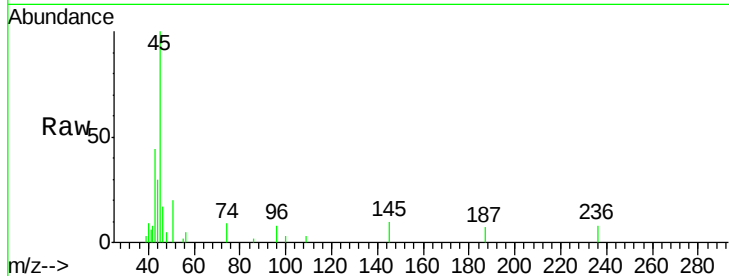
#13
Ethanol
Concen: 0.408 ppbv m
RT: 3.65 min Scan# 221
Delta R.T. 0.02 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion: 45 Resp: 5579
Ion Ratio Lower Upper
45 100
46 68.3 16.2 64.6#

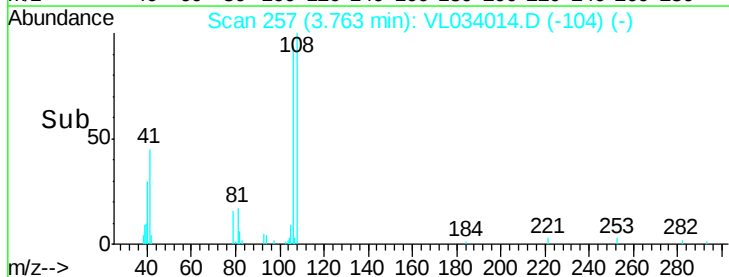
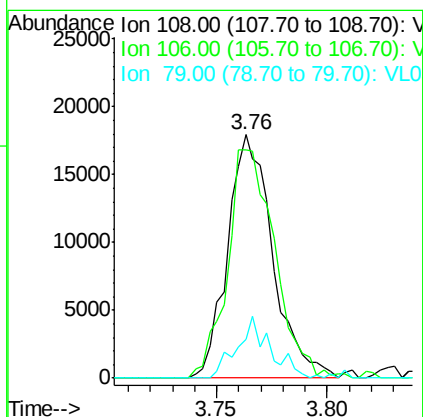
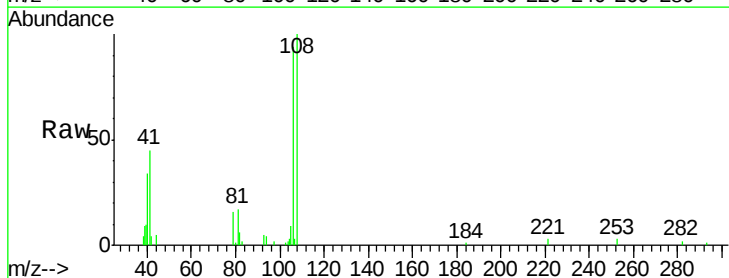
Manual Integrations
APPROVED

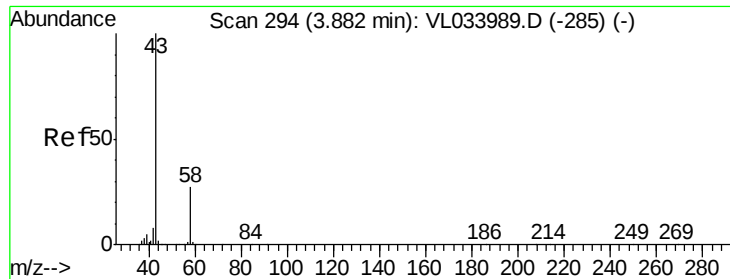
MMDadoda
7/10/2019 8:50:10 AM



#14
Bromoethene
Concen: 0.429 ppbv
RT: 3.76 min Scan# 257
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion: 108 Resp: 25492
Ion Ratio Lower Upper
108 100
106 98.9 85.6 128.4
79 19.3 14.0 21.0





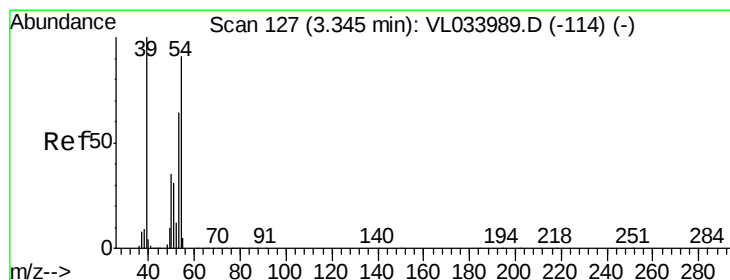
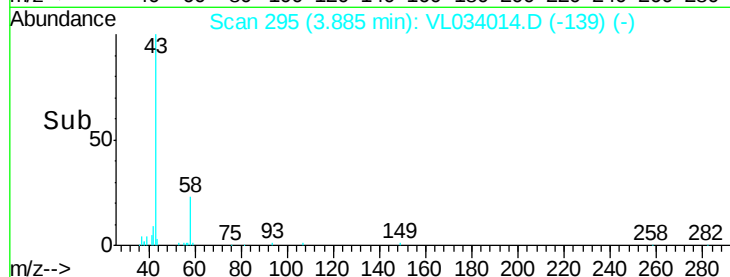
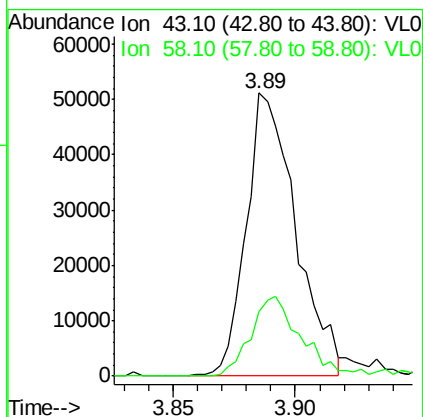
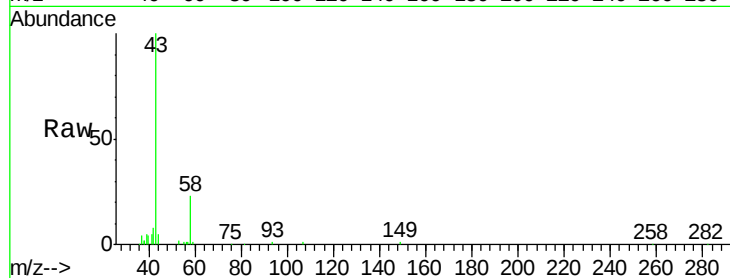
#15
Acetone
Concen: 0.442 ppbv
RT: 3.89 min Scan# 295
Delta R.T. 0.00 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion: 43 Resp: 71944
Ion Ratio Lower Upper
43 100
58 30.0 21.4 32.0

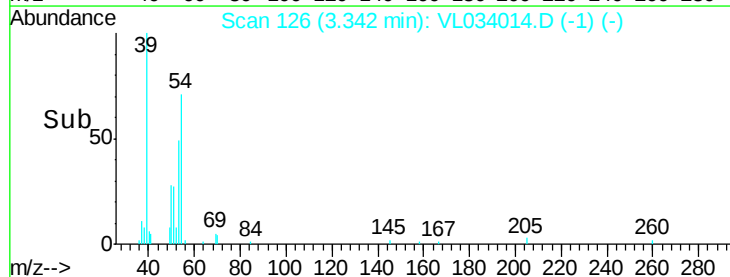
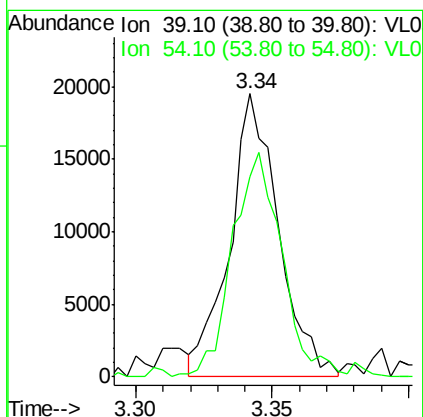
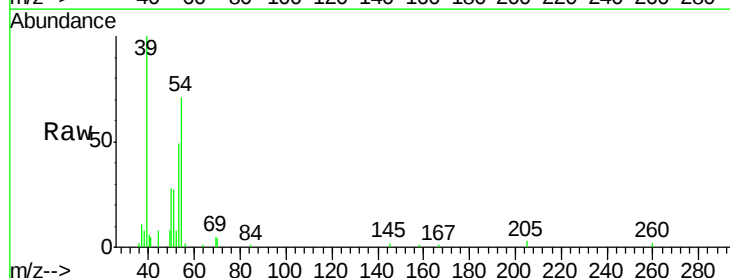
Manual Integrations
APPROVED

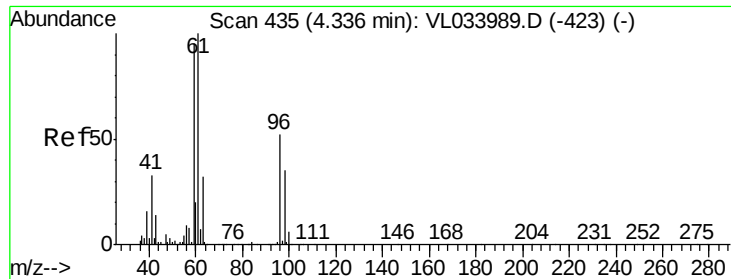
MMDadoda
7/10/2019 8:50:10 AM



#16
1,3-Butadiene
Concen: 0.421 ppbv
RT: 3.34 min Scan# 126
Delta R.T. -0.00 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion: 39 Resp: 24207
Ion Ratio Lower Upper
39 100
54 83.1 71.4 107.2





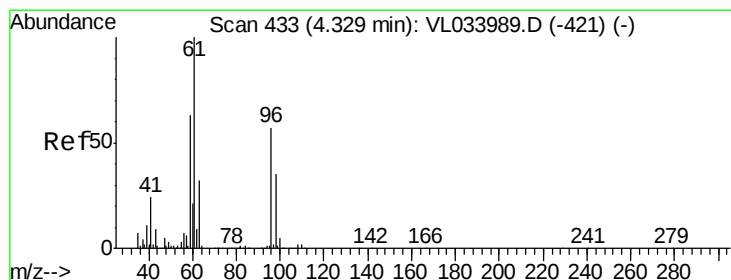
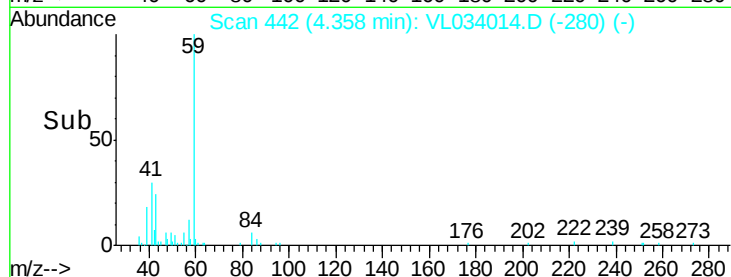
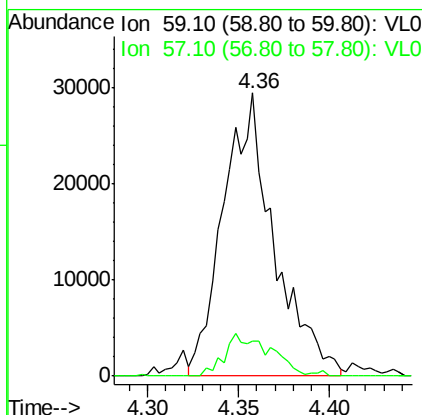
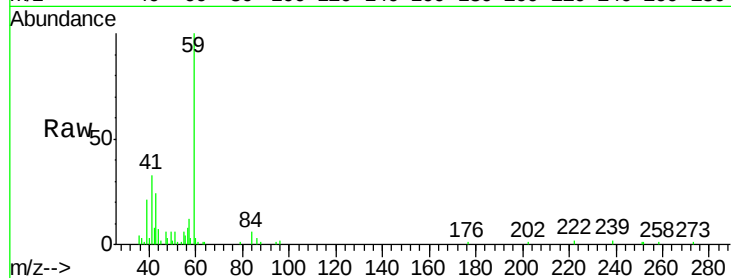
#17
tert-Butyl alcohol
Concen: 0.442 ppbv m
RT: 4.36 min Scan# 442
Delta R.T. 0.02 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion: 59 Resp: 57381
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

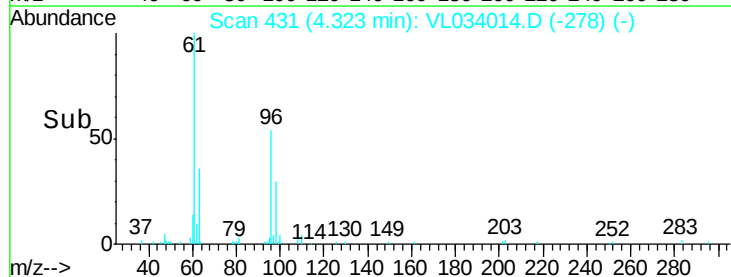
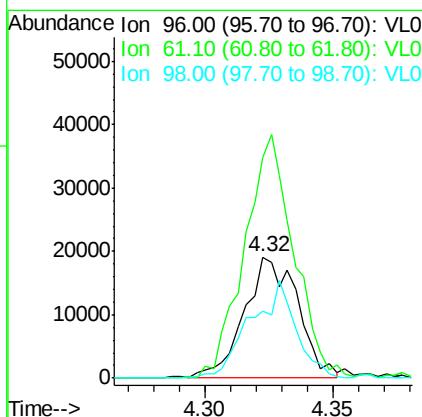
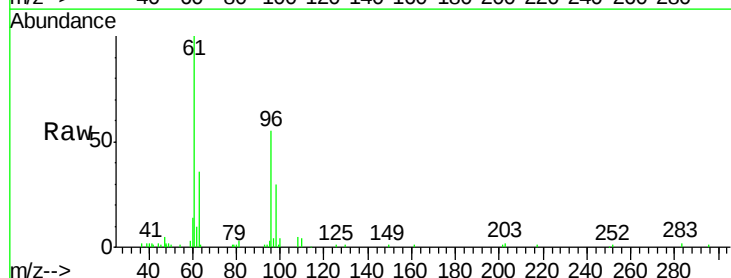
Manual Integrations
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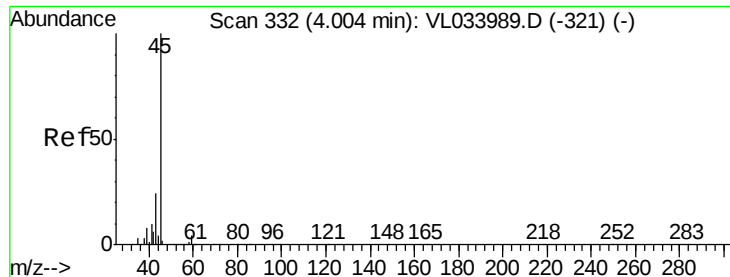
MMDadoda
7/10/2019 8:50:10 AM



#18
1,1-Dichloroethene
Concen: 0.391 ppbv m
RT: 4.32 min Scan# 431
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion: 96 Resp: 27707
Ion Ratio Lower Upper
96 100
61 181.9 139.4 209.0
98 55.4 49.4 74.0





#19

Isopropyl Alcohol

Concen: 0.411 ppbv m

RT: 4.01 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion: 45 Resp: 44922

Ion Ratio Lower Upper

45 100

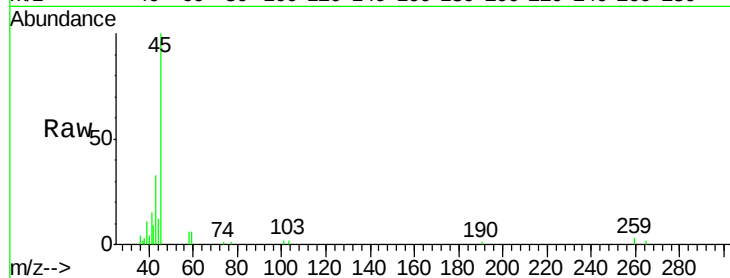
58 0.0 1.7 2.5#

Manual Integrations

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MMDadoda

7/10/2019 8:50:10 AM

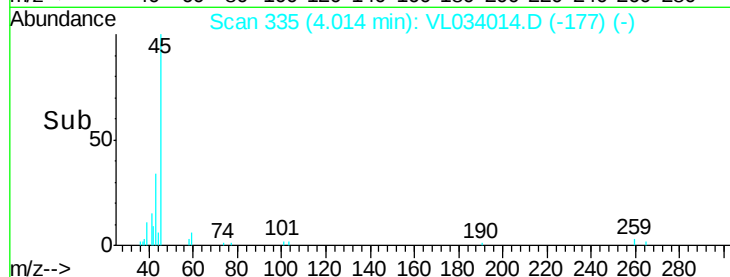


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.01

Time-->



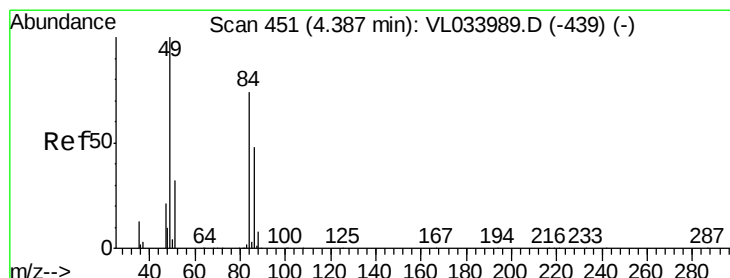
Abundance

Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.01

Time-->



#20

Methylene Chloride

Concen: 0.461 ppbv m

RT: 4.38 min Scan# 450

Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion: 84 Resp: 32788

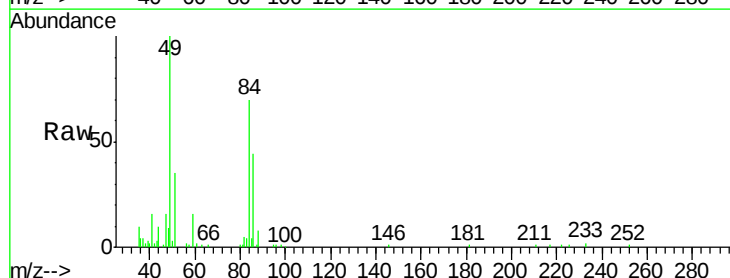
Ion Ratio Lower Upper

84 100

49 142.4 107.6 161.4

51 49.6 35.0 52.6

86 63.1 52.1 78.1



Abundance Ion 84.00 (83.70 to 84.70): VL0

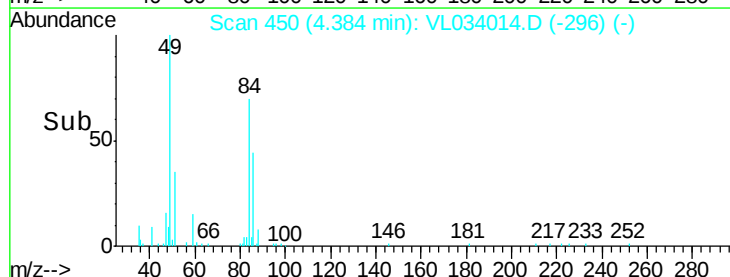
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.38

Time-->



Abundance

Ion 84.00 (83.70 to 84.70): VL0

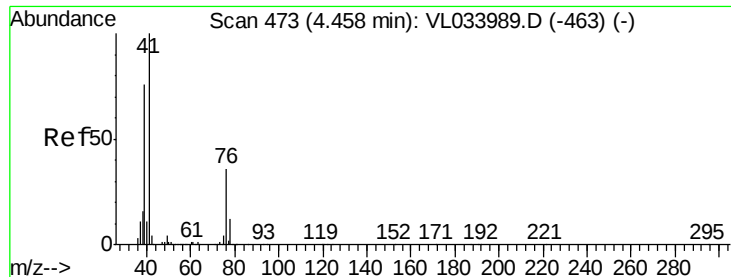
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.38

Time-->



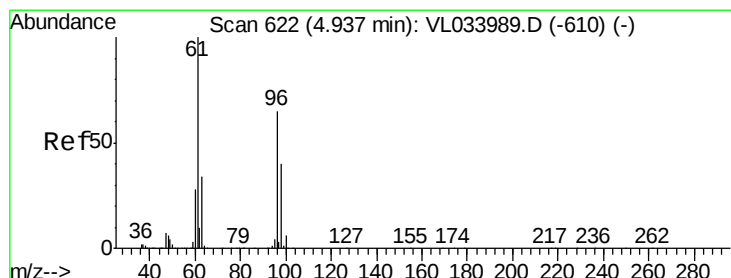
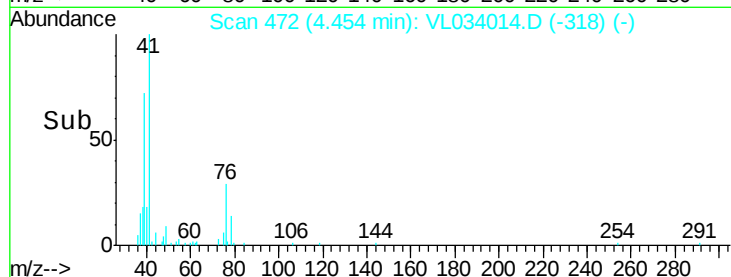
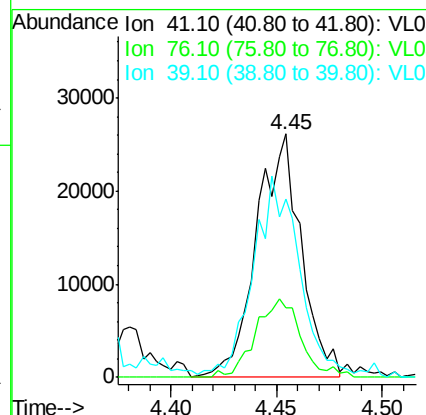
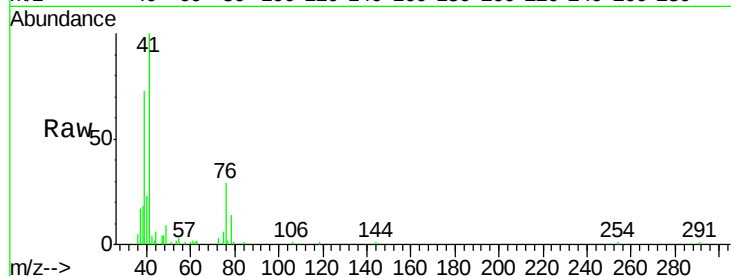
#21
Allvl Chloride
Concen: 0.379 ppbv m
RT: 4.45 min Scan# 472
Delta R.T. -0.00 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
41	100		
76	0.0	26.8	40.2#
39	0.0	63.1	94.7#

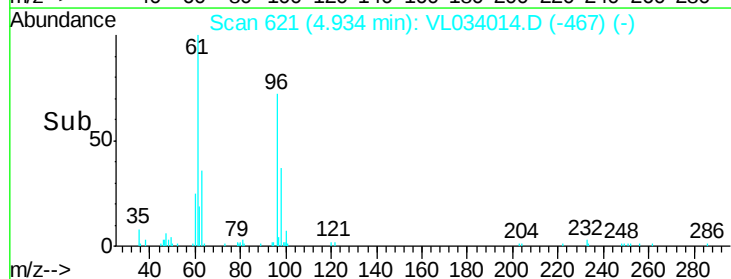
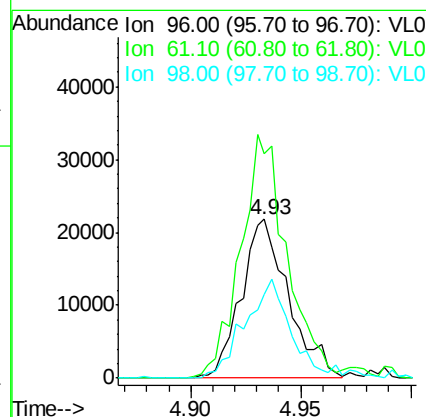
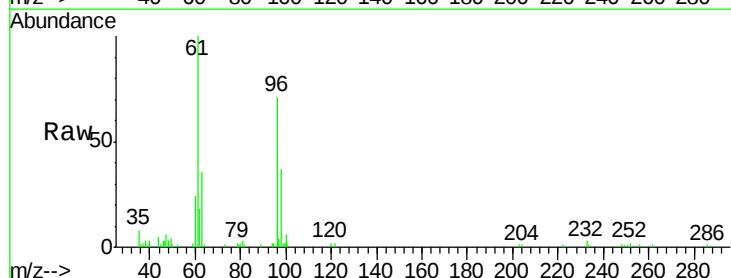
Manual Integrations
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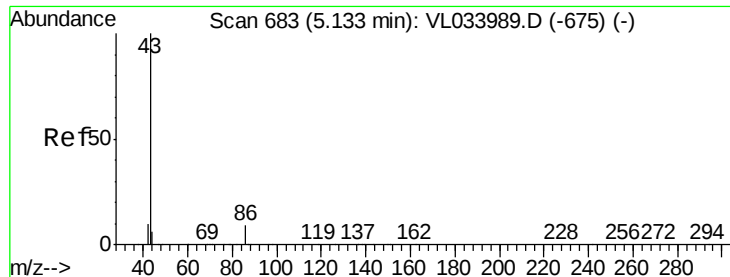
MMDadoda
7/10/2019 8:50:10 AM



#22
trans-1,2-Dichloroethene
Concen: 0.484 ppbv m
RT: 4.93 min Scan# 621
Delta R.T. -0.00 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	140.8	122.9	184.3
98	52.2	49.6	74.4





#23

Vinyl Acetate

Concen: 0.361 ppbv

RT: 5.13 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

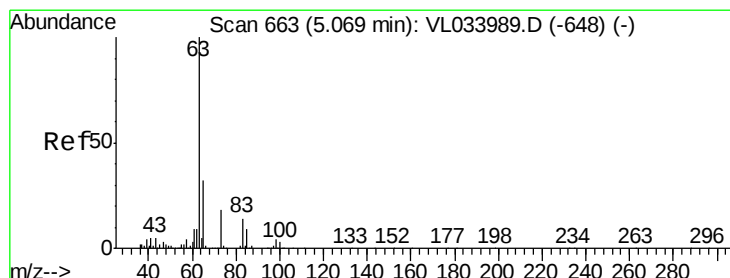
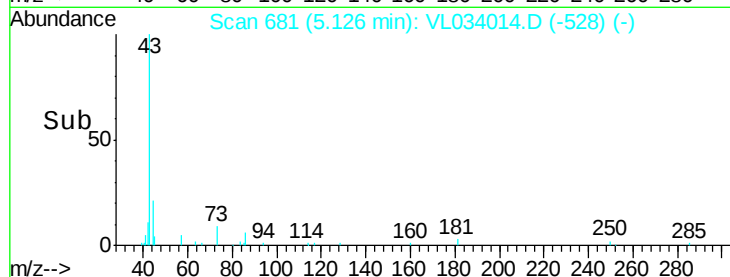
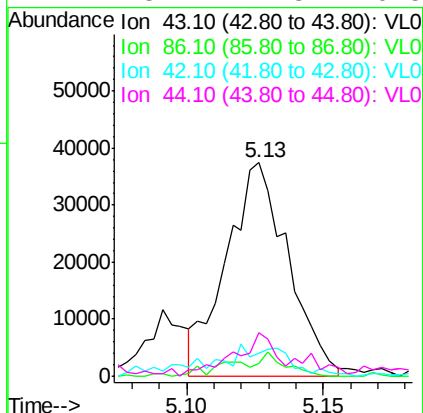
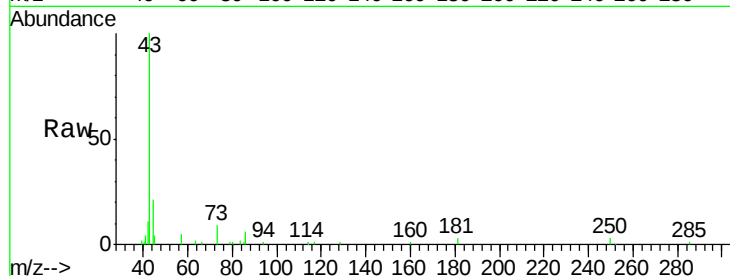
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion	43	Resp	58708
Ion Ratio	Lower	Upper	
43	100		
86	6.4	6.6	9.8#
42	9.6	8.3	12.5
44	18.1	4.3	6.5#

Manual Integrations
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MMDadoda
7/10/2019 8:50:10 AM



#24

1,1-Dichloroethane

Concen: 0.441 ppbv m

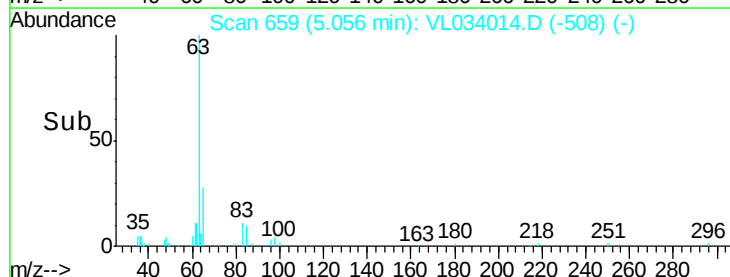
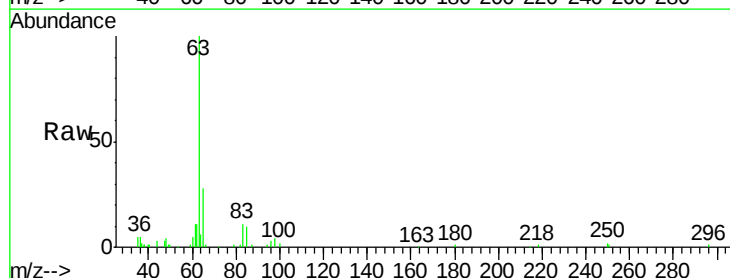
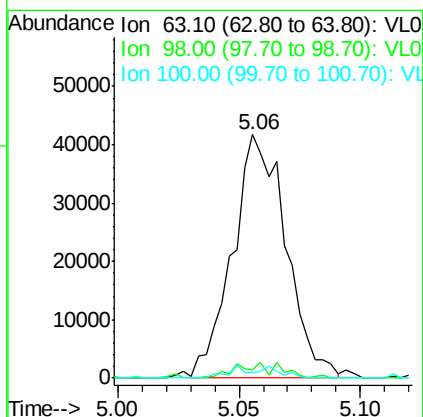
RT: 5.06 min Scan# 659

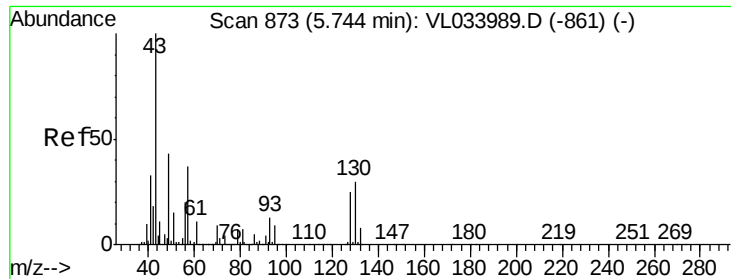
Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion	63	Resp	63622
Ion Ratio	Lower	Upper	
63	100		
98	3.6	2.2	6.6
100	2.3	1.4	4.2





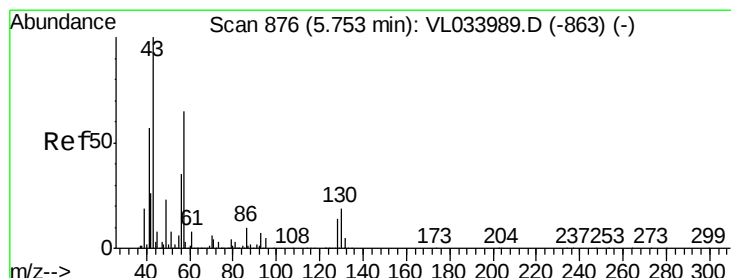
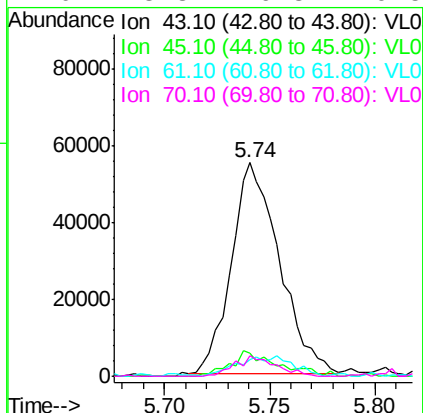
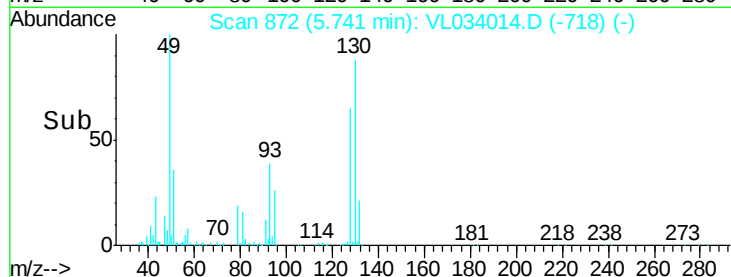
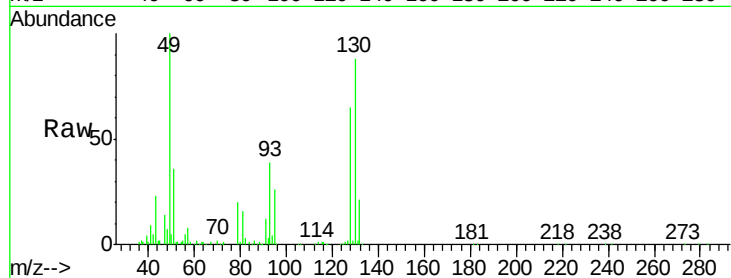
#25
Ethyl Acetate
Concen: 0.390 ppbv
RT: 5.74 min Scan# 872
Delta R.T. -0.00 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	11.7		8.1	12.1	
61	11.9		8.1	12.1	
70	8.3		6.3	9.5	

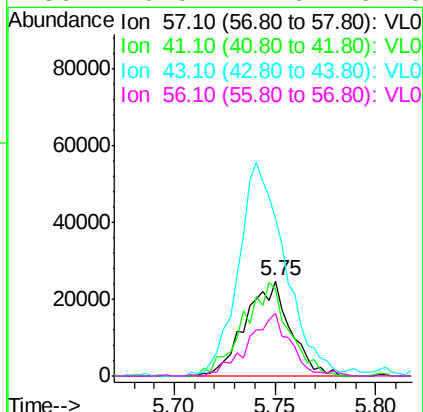
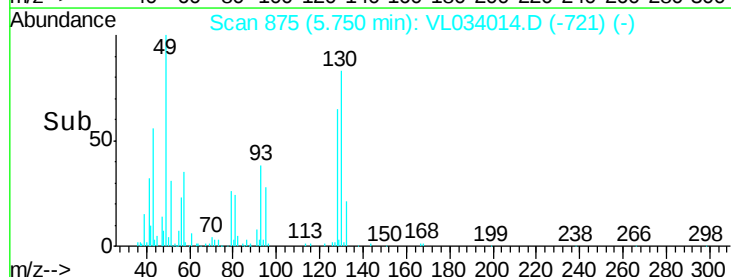
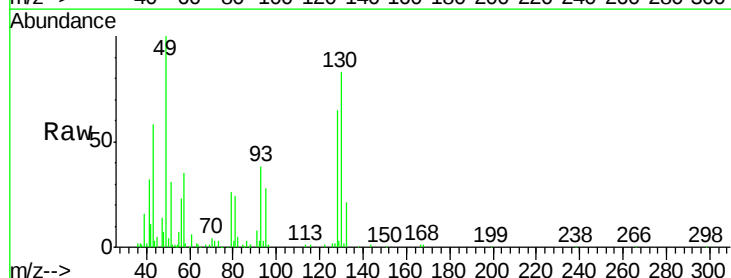
Manual Integrations
APPROVED

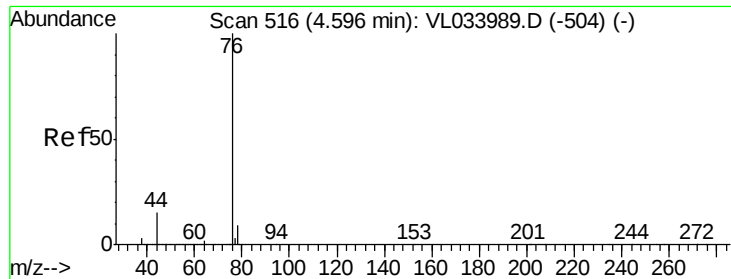
MMDadoda
7/10/2019 8:50:10 AM



#26
Hexane
Concen: 0.378 ppbv m
RT: 5.75 min Scan# 875
Delta R.T. -0.00 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	0.0		70.6	105.8#	
43	235.3		177.6	266.4	
56	0.0		42.6	64.0#	





#27

Carbon Disulfide

Concen: 0.353 ppbv

RT: 4.60 min Scan# 516

Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

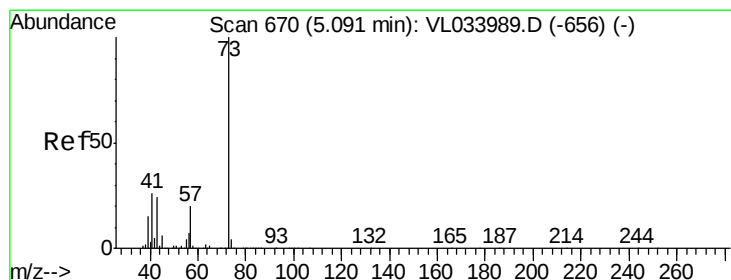
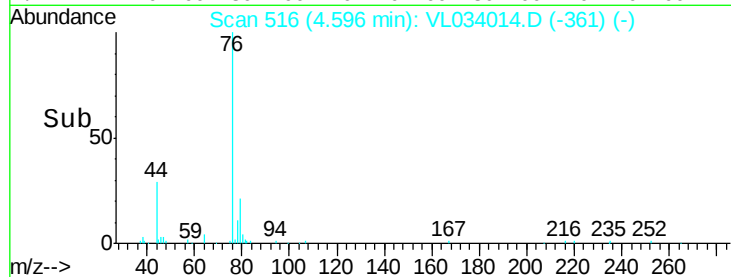
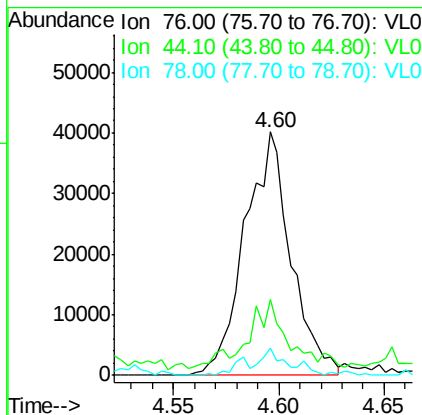
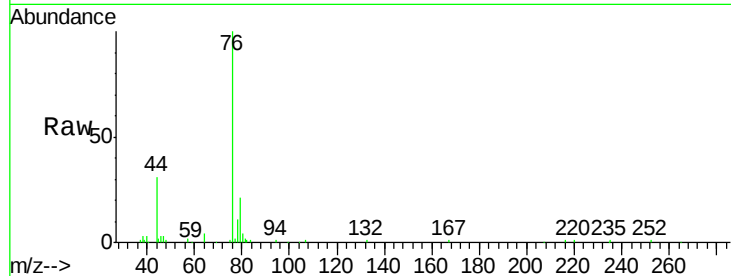
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion:	76	Resp:	61130
Ion Ratio	Lower	Upper	
76	100		
44	27.7	12.6	18.8#
78	9.8	7.2	10.8

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#28

Methyl tert-Butyl Ether

Concen: 0.364 ppbv

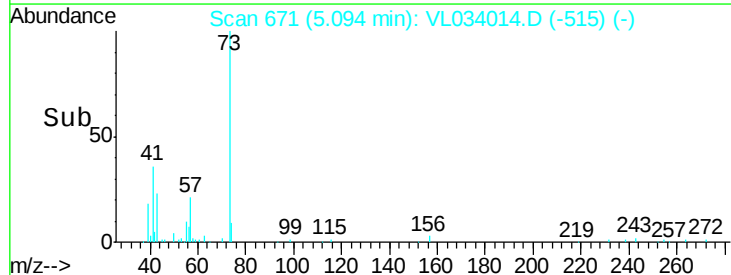
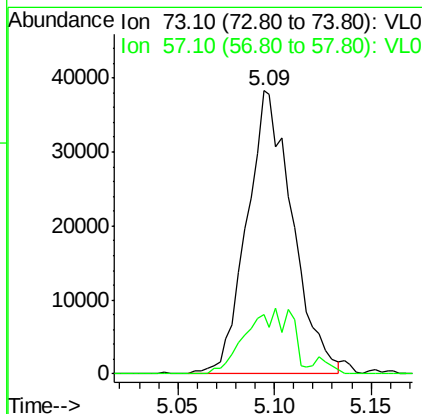
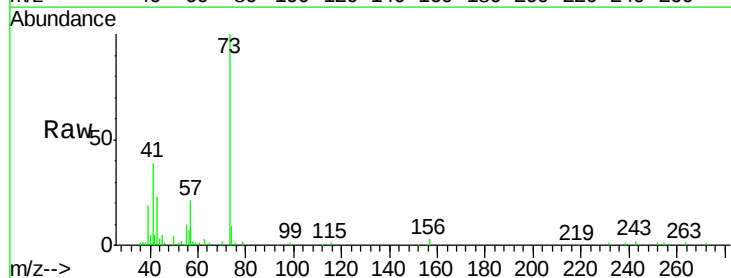
RT: 5.09 min Scan# 671

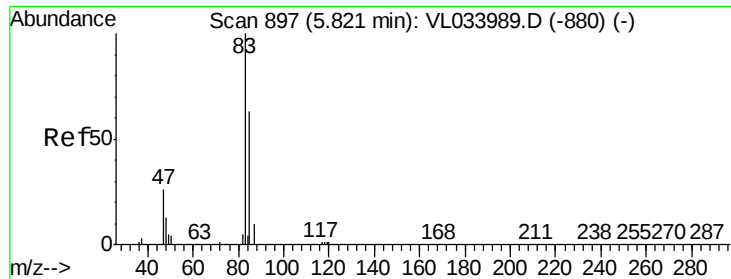
Delta R.T. 0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion:	73	Resp:	62879
Ion Ratio	Lower	Upper	
73	100		
57	25.2	16.9	25.3





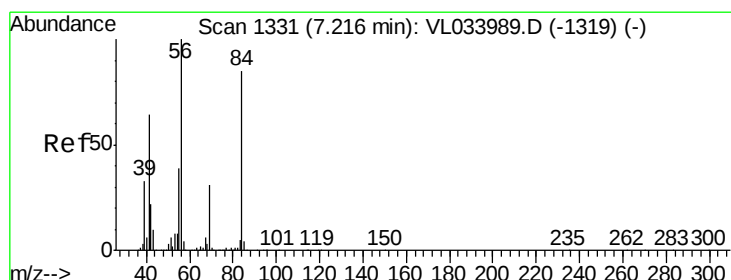
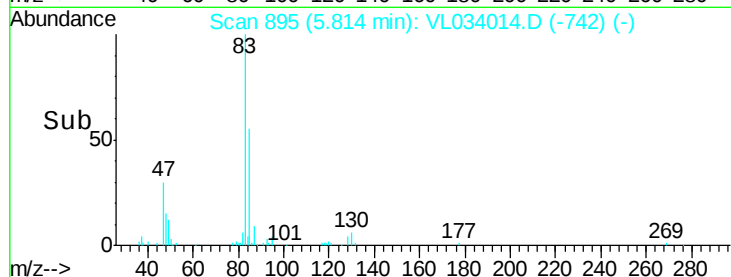
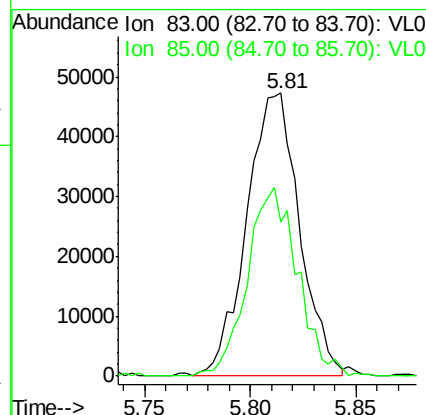
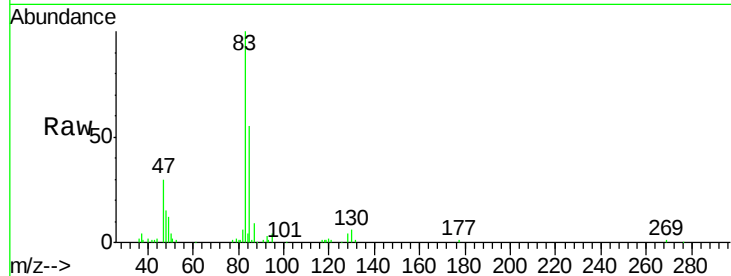
#29
Chloroform
Concen: 0.428 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion: 83 Resp: 81976
Ion Ratio Lower Upper
83 100
85 54.9 50.6 75.8

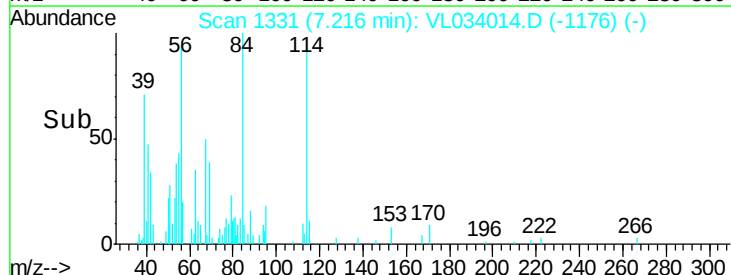
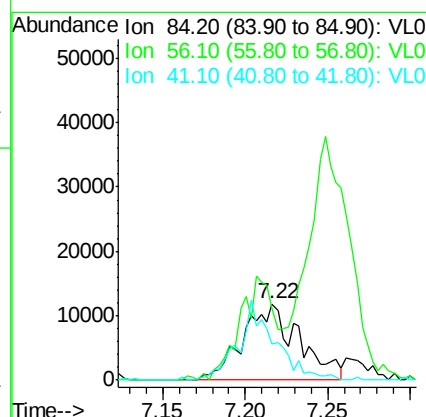
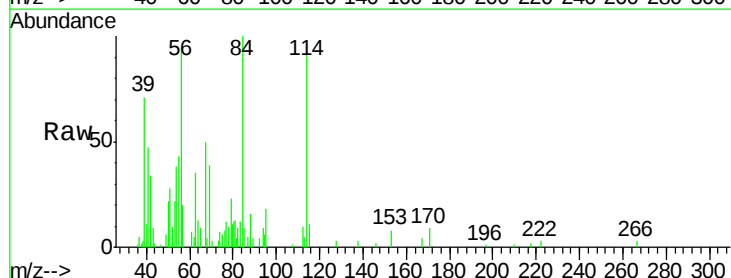
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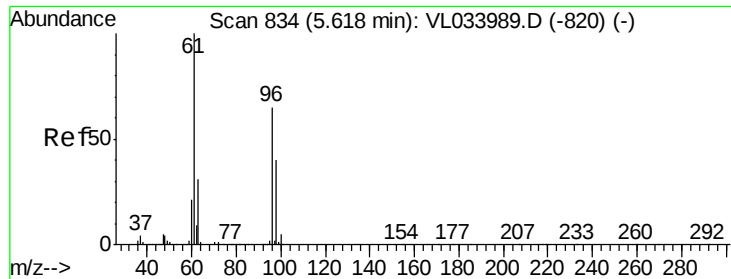
MMDadoda
7/10/2019 8:50:10 AM



#30
Cyclohexane
Concen: 0.357 ppbv m
RT: 7.22 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion: 84 Resp: 28096
Ion Ratio Lower Upper
84 100
56 0.0 103.7 155.5#
41 68.8 62.6 94.0





#31

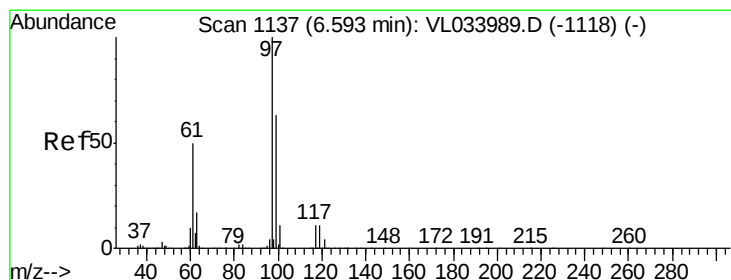
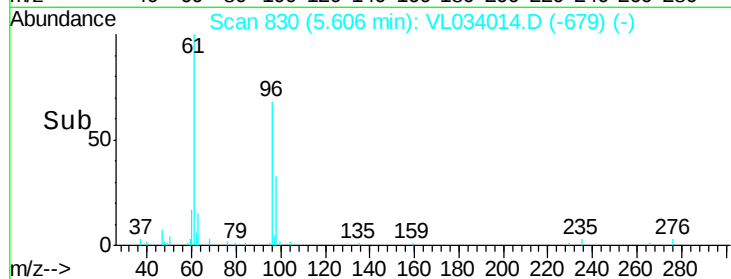
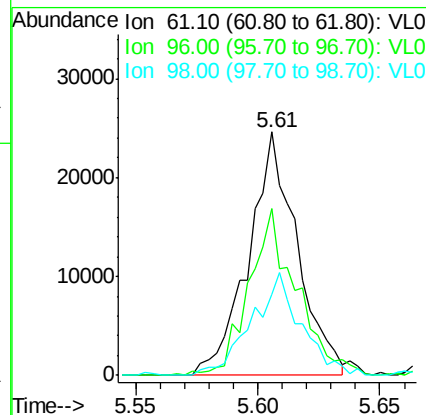
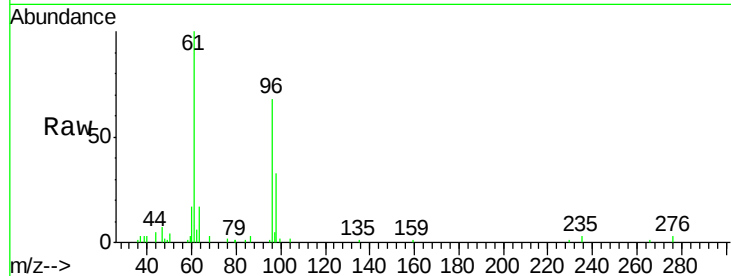
cis-1,2-Dichloroethene
Concen: 0.344 ppbv
RT: 5.61 min Scan# 830
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.5	51.8	77.6
98	33.4	32.1	48.1

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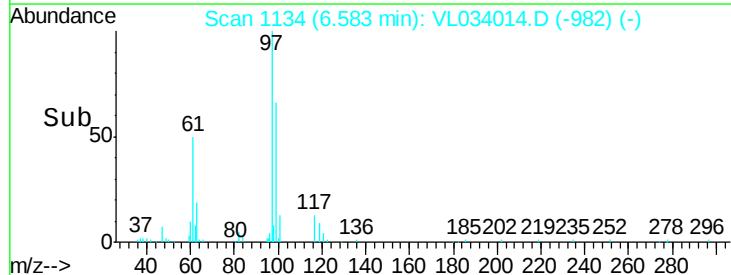
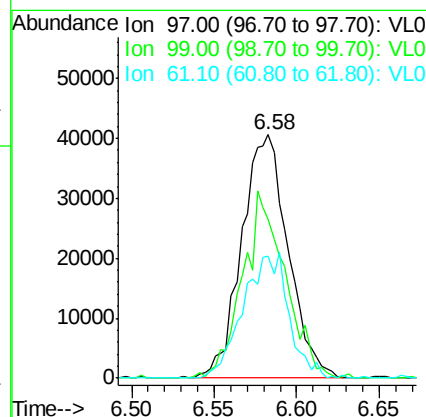
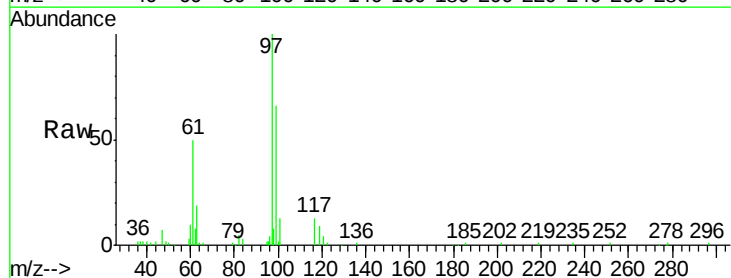
MMDadoda
7/10/2019 8:50:10 AM

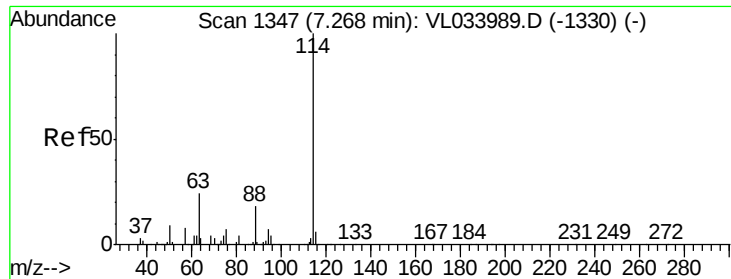


#32

1,1,1-Trichloroethane
Concen: 0.408 ppbv m
RT: 6.58 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	70.5	51.9	77.9
61	50.2	39.8	59.8





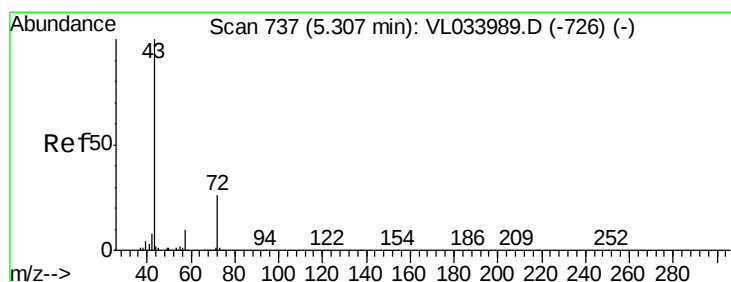
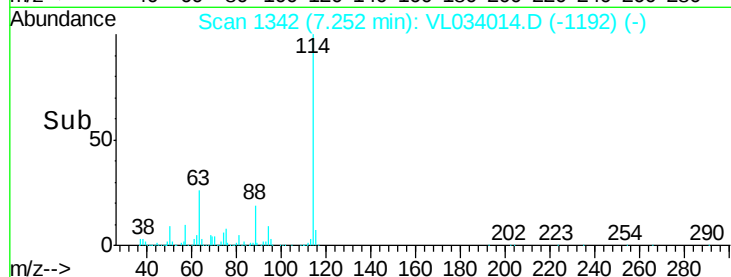
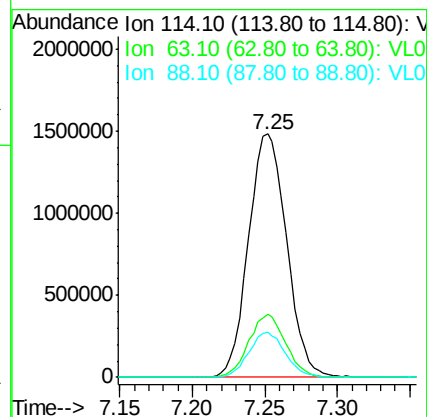
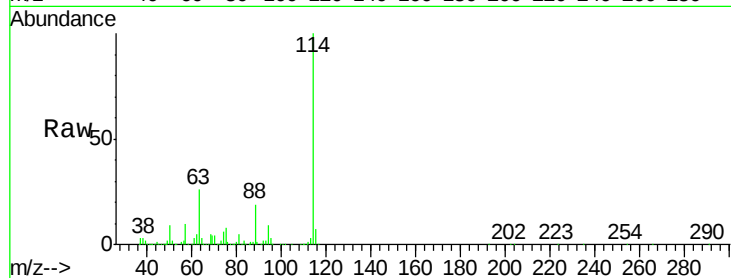
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1342
 Delta R.T. -0.02 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.2	30.2
88	17.8	14.1	21.1

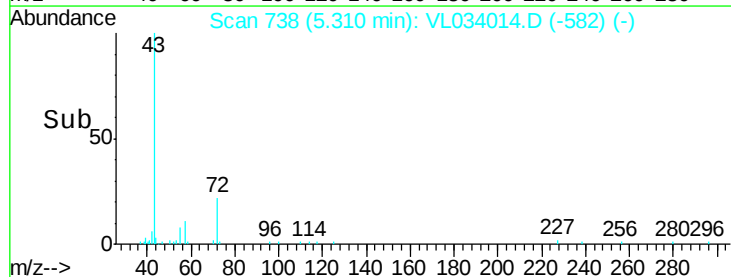
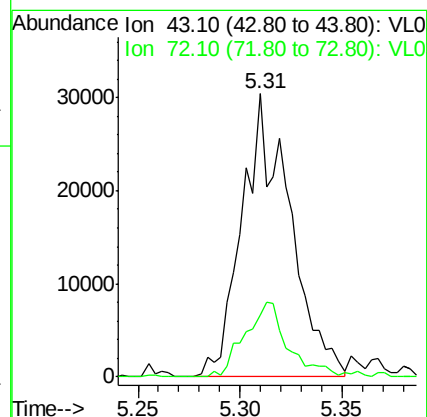
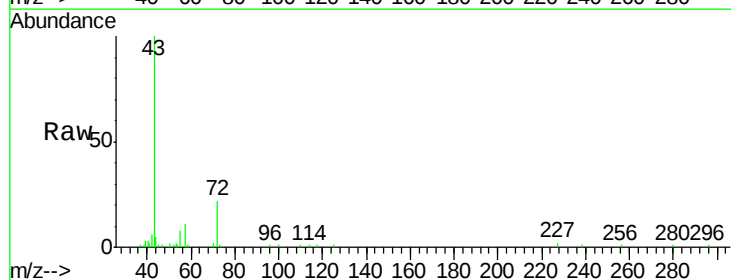
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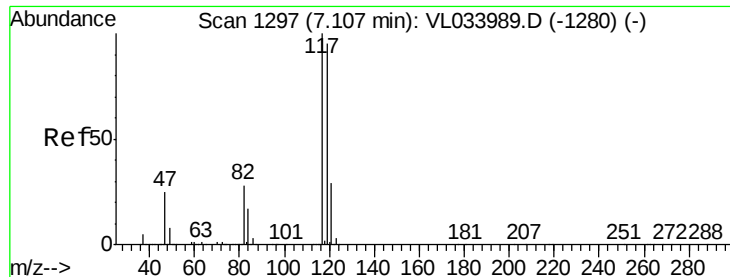
MMDadoda
 7/10/2019 8:50:10 AM



#34
 2-Butanone
 Concen: 0.344 ppbv m
 RT: 5.31 min Scan# 738
 Delta R.T. 0.00 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.7	19.9	29.9





#35

Carbon Tetrachloride

Concen: 0.413 ppbv m

RT: 7.09 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

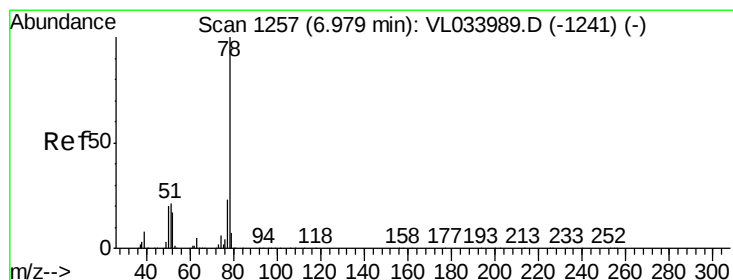
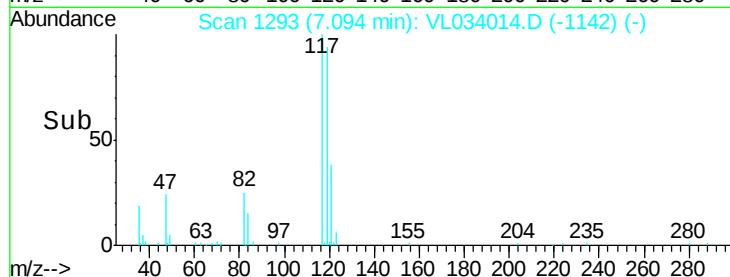
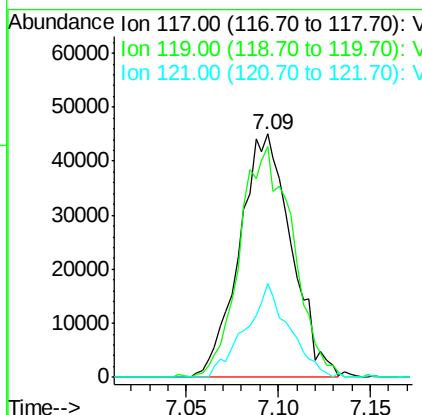
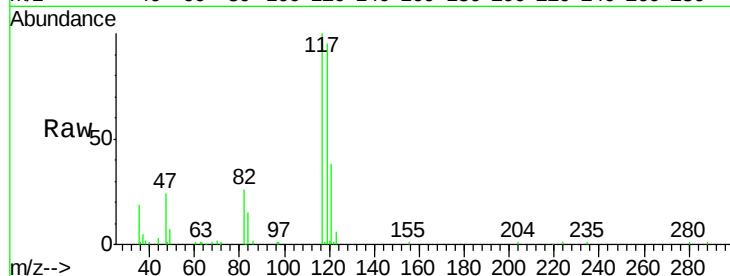
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.9	75.8	113.6
121	38.3	23.4	35.2

Manual Integrations
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MMDadoda
7/10/2019 8:50:10 AM



#36

Benzene

Concen: 0.320 ppbv m

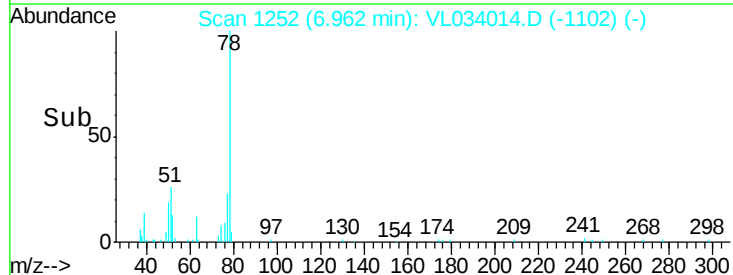
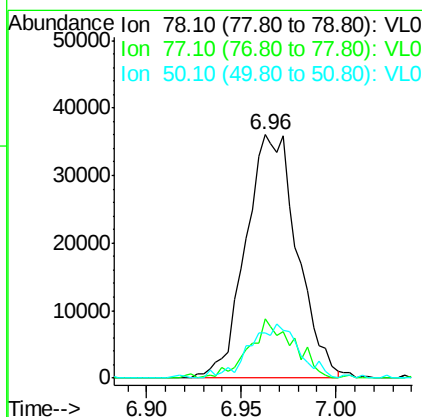
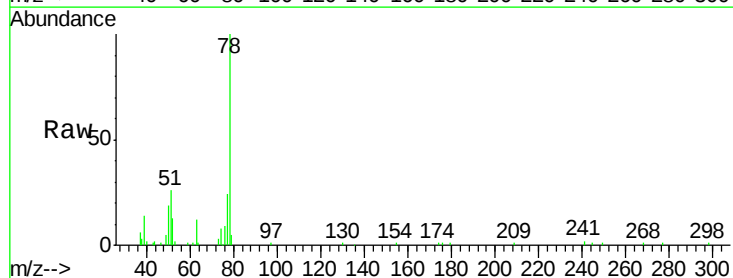
RT: 6.96 min Scan# 1252

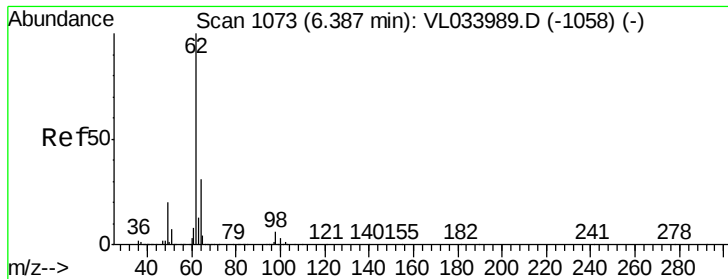
Delta R.T. -0.02 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.7	28.1
50	18.6	16.2	24.2





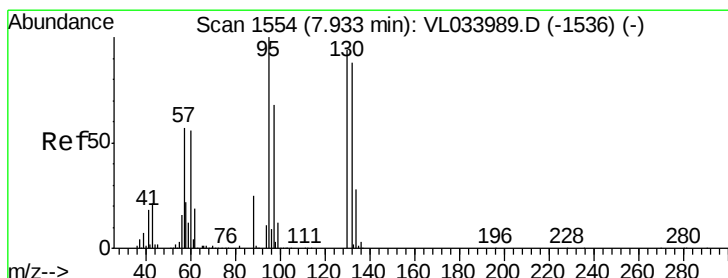
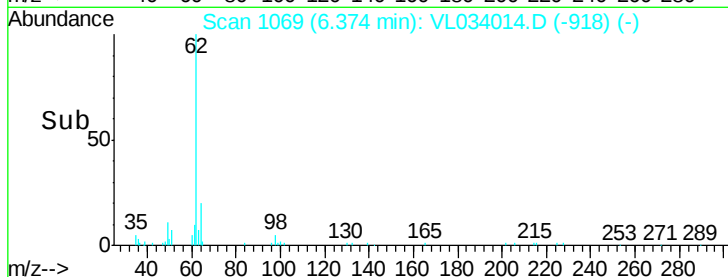
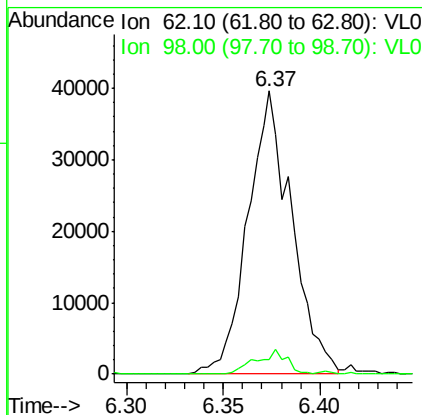
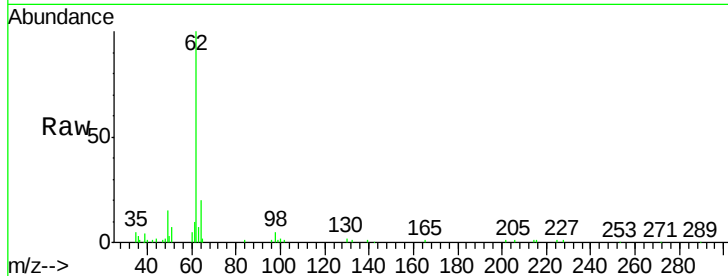
#37
1,2-Dichloroethane
Concen: 0.397 ppbv
RT: 6.37 min Scan# 1069
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.4	4.4	6.6

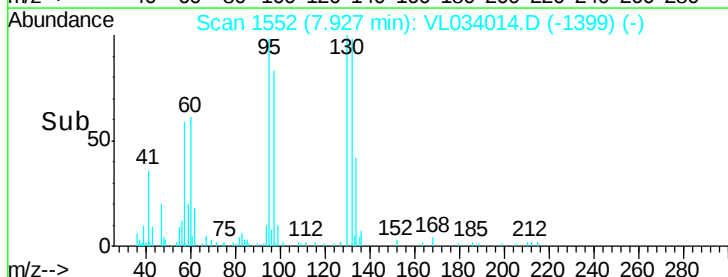
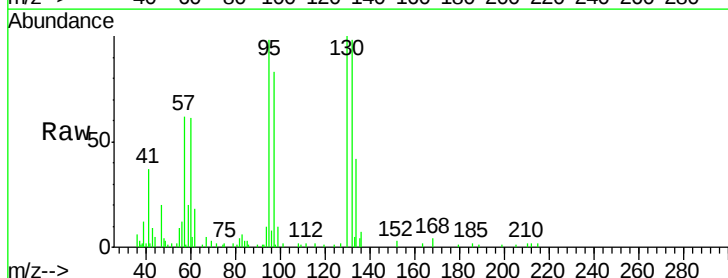
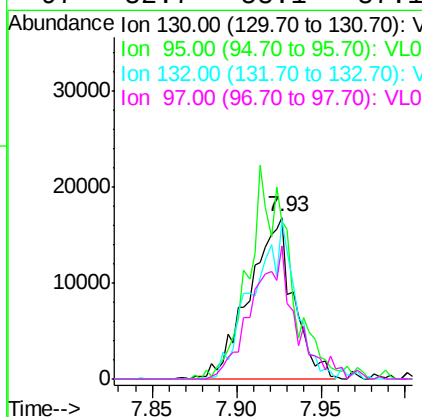
Manual Integrations
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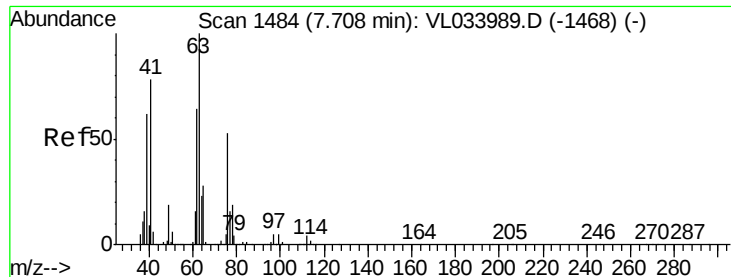
MMDadoda
7/10/2019 8:50:10 AM



#38
Trichloroethene
Concen: 0.325 ppbv m
RT: 7.93 min Scan# 1552
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.9	85.5	128.3
132	98.0	75.1	112.7
97	82.7	58.1	87.1





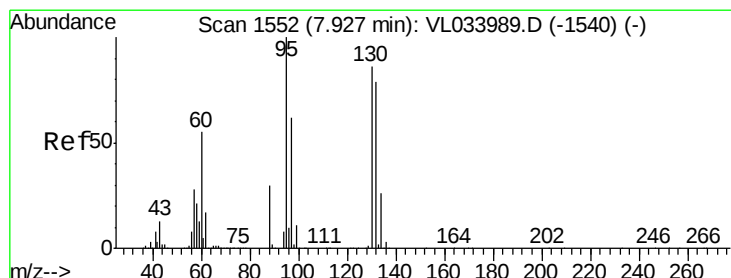
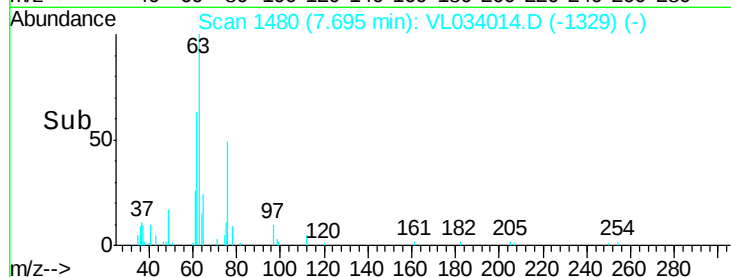
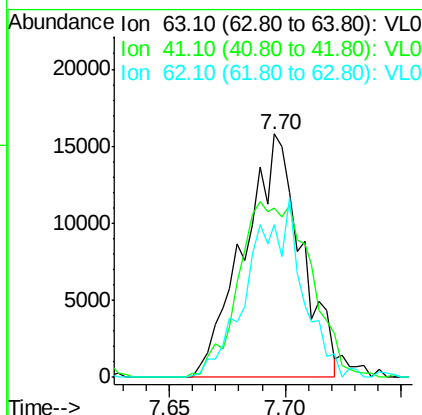
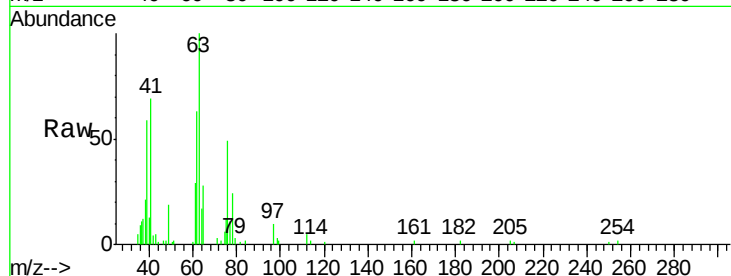
#39
 1,2-Dichloropropane
 Concen: 0.344 ppbv m
 RT: 7.70 min Scan# 1480
 Delta R.T. -0.01 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.4	62.3	93.5
62	62.6	51.4	77.2

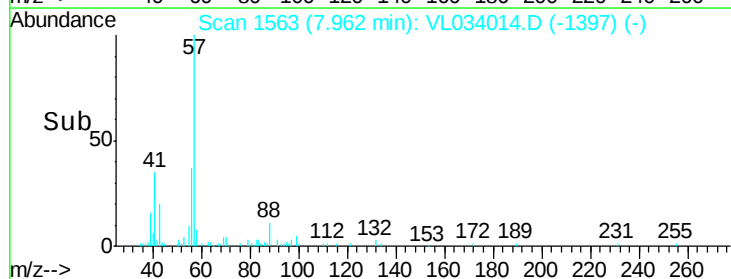
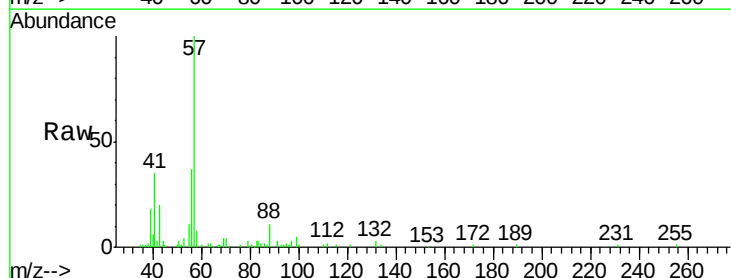
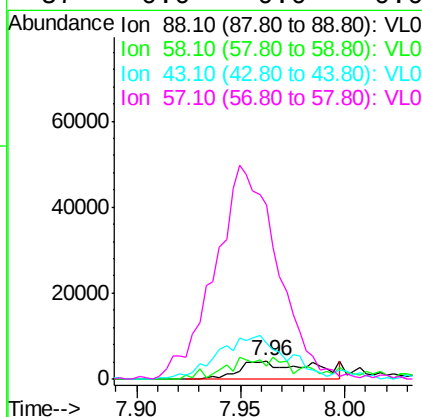
Manual Integrations
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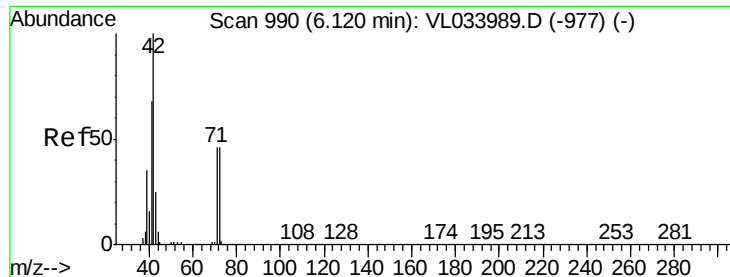
MMDadoda
 7/10/2019 8:50:10 AM



#40
 1,4-Dioxane
 Concen: 0.282 ppbv m
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.04 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	99.1	148.7#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





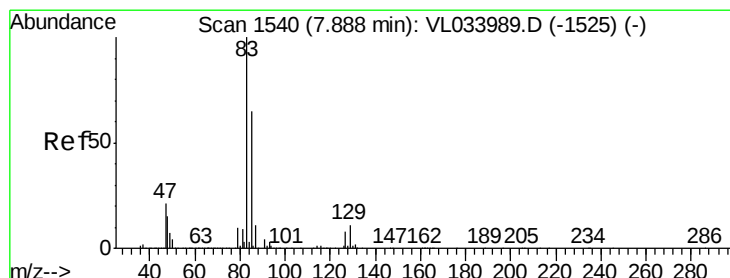
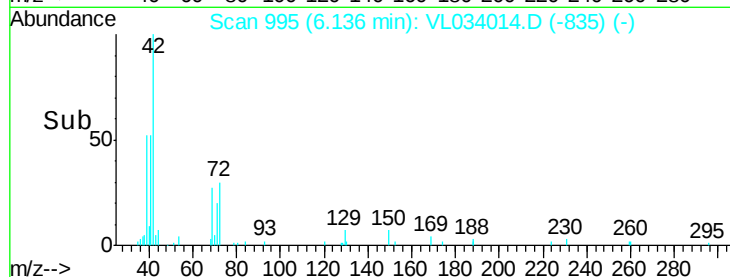
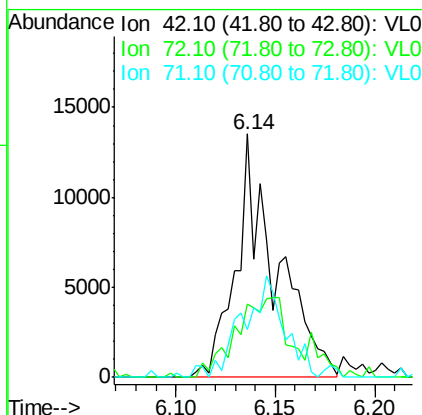
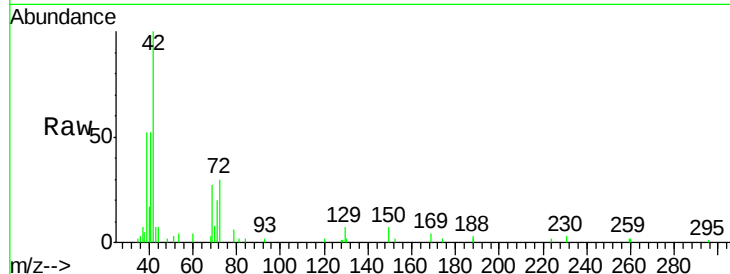
#41
Tetrahydrofuran
Concen: 0.266 ppbv m
RT: 6.14 min Scan# 995
Delta R.T. 0.02 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.3	55.9#
71	0.0	36.2	54.2#

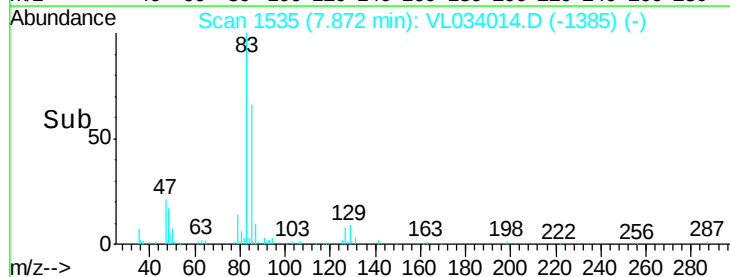
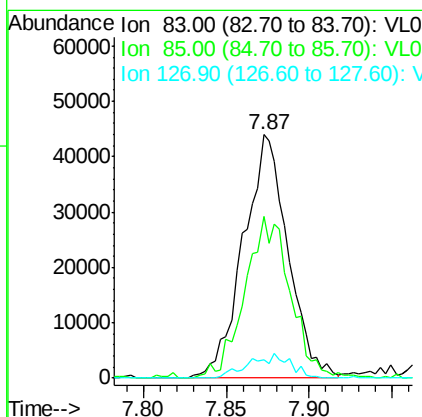
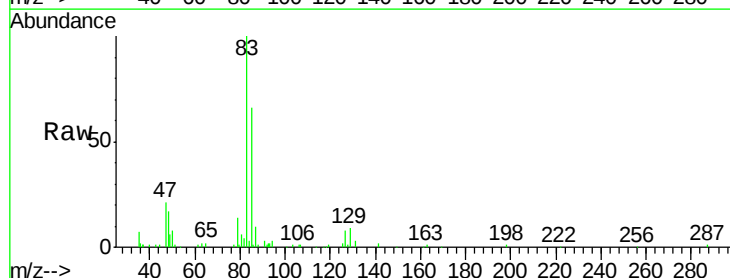
Manual Integrations
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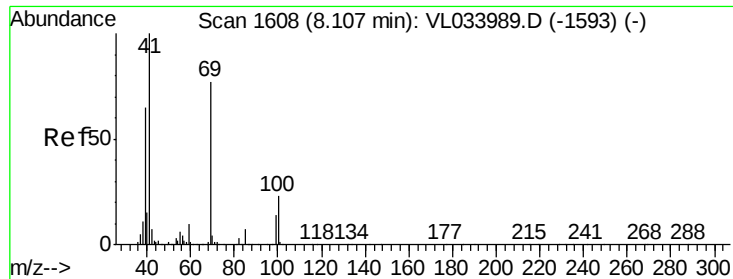
MMDadoda
7/10/2019 8:50:10 AM



#42
Bromodichloromethane
Concen: 0.392 ppbv
RT: 7.87 min Scan# 1535
Delta R.T. -0.02 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.8	77.8
127	7.7	6.5	9.7





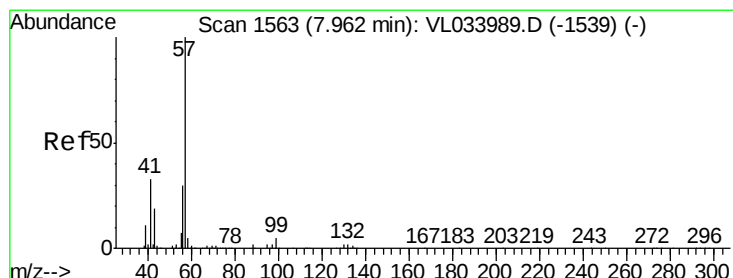
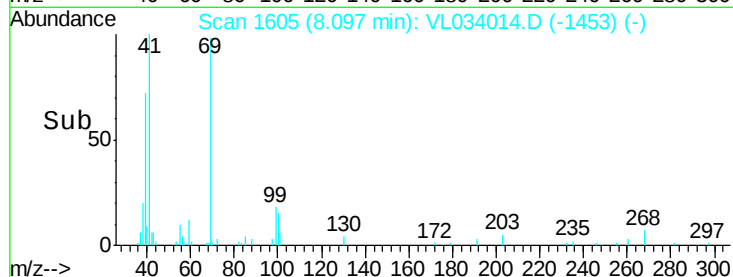
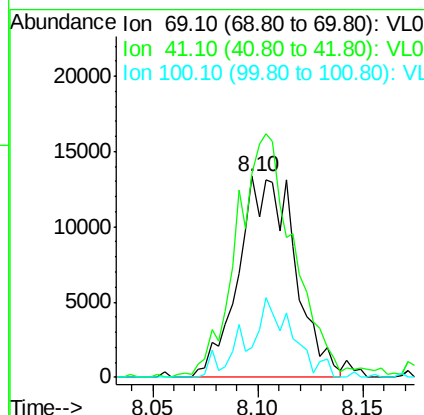
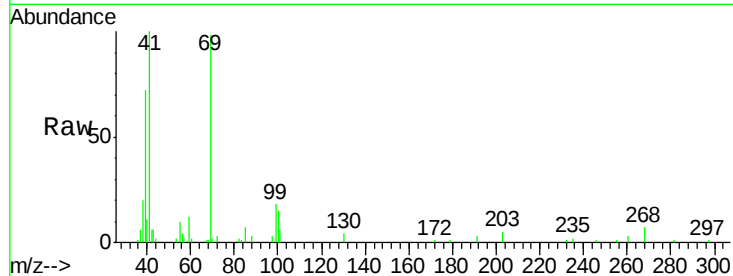
#43
Methvl Methacrylate
Concen: 0.310 ppbv m
RT: 8.10 min Scan# 1605
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	109.1	163.7#
100	0.0	25.3	37.9#

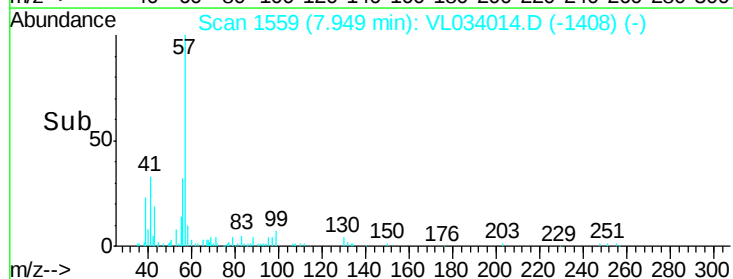
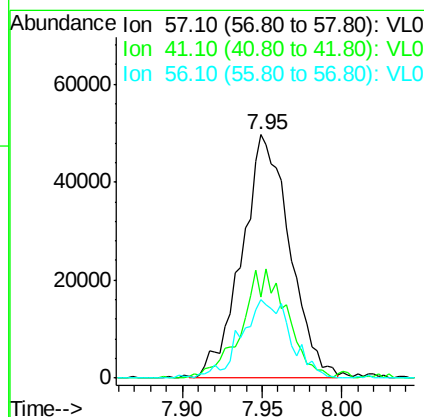
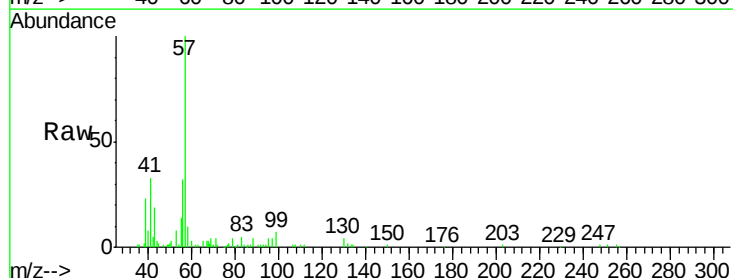
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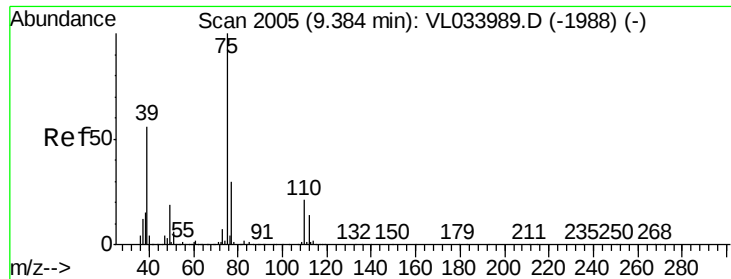
MMDadoda
7/10/2019 8:50:10 AM



#44
2,2,4-Trimethylpentane
Concen: 0.283 ppbv m
RT: 7.95 min Scan# 1559
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.9	26.1	39.1#
56	33.4	24.4	36.6





#45

t-1,3-Dichloropropene

Concen: 0.234 ppbv m

RT: 9.37 min Scan# 2001

Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion: 75 Resp: 24665

Ion Ratio Lower Upper

75 100

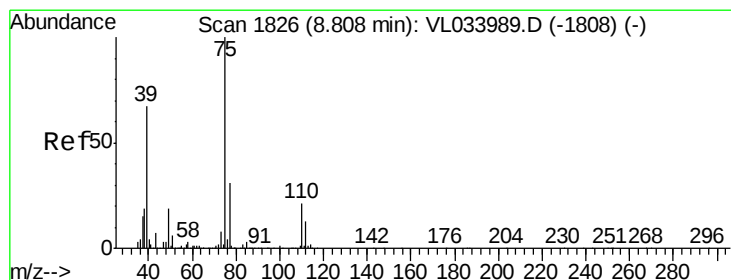
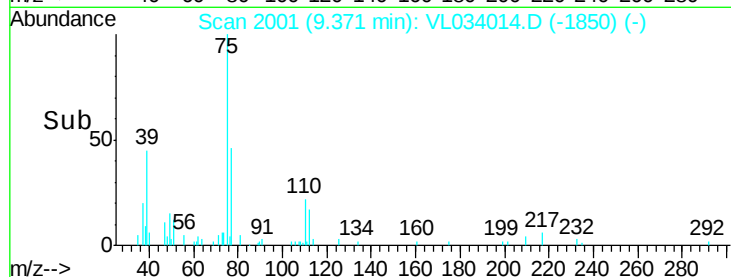
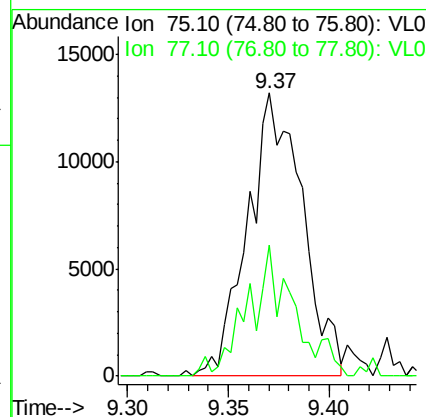
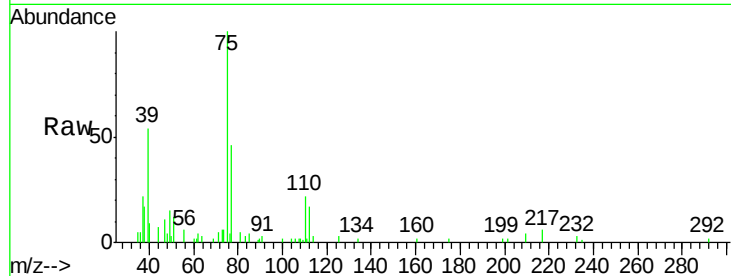
77 46.3 24.3 36.5#

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#46

cis-1,3-Dichloropropene

Concen: 0.237 ppbv m

RT: 8.79 min Scan# 1821

Delta R.T. -0.02 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

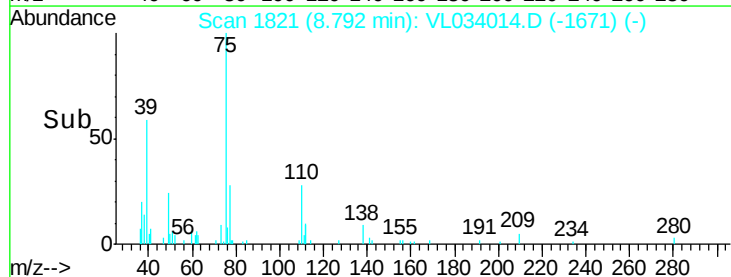
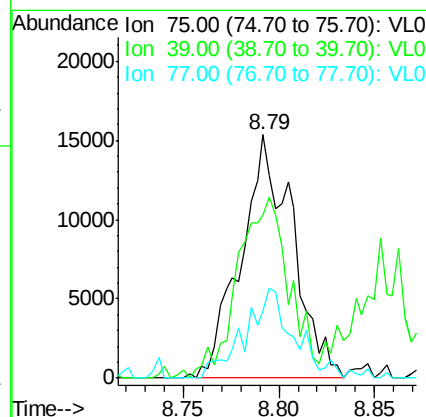
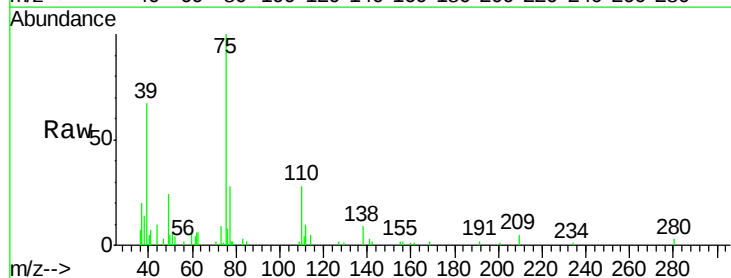
Tgt Ion: 75 Resp: 28954

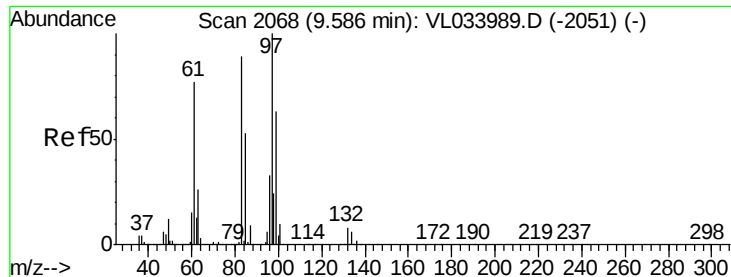
Ion Ratio Lower Upper

75 100

39 67.1 53.8 80.6

77 27.6 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 0.383 ppbv m

RT: 9.57 min Scan# 2064

Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion: 97 Resp: 38063

Ion Ratio Lower Upper

97 100

83 68.2 71.1 106.7#

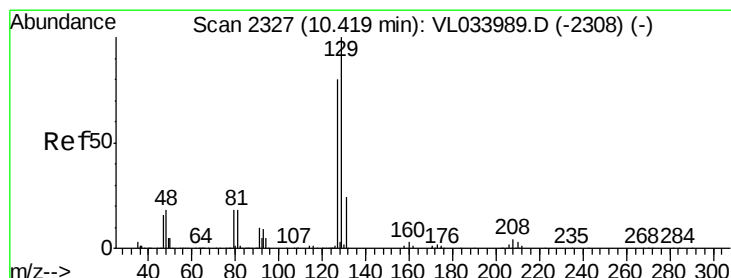
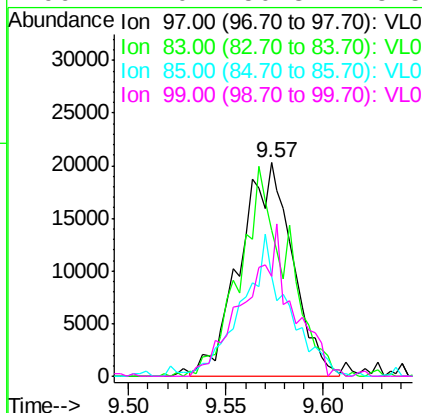
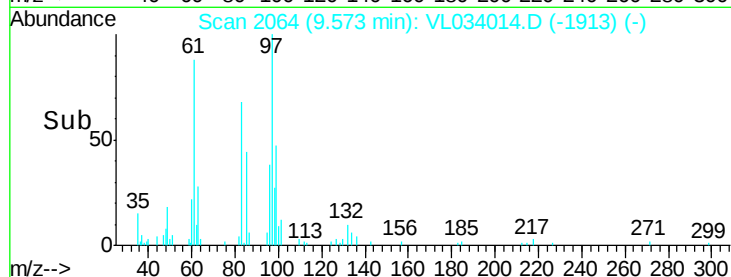
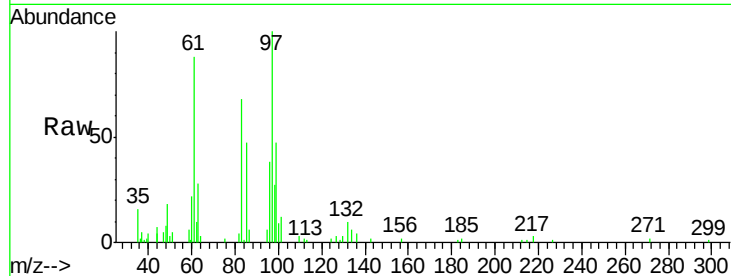
85 46.7 42.6 64.0

99 47.0 50.3 75.5#

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#48

Dibromochloromethane

Concen: 0.328 ppbv m

RT: 10.40 min Scan# 2322

Delta R.T. -0.02 min

Lab File: VL034014.D

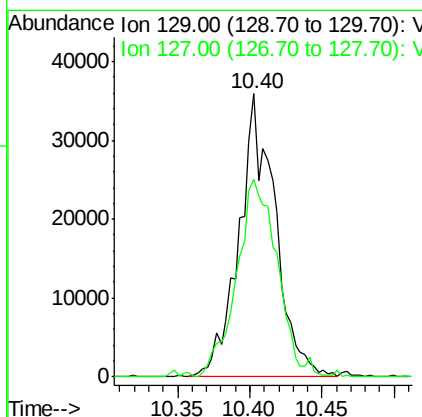
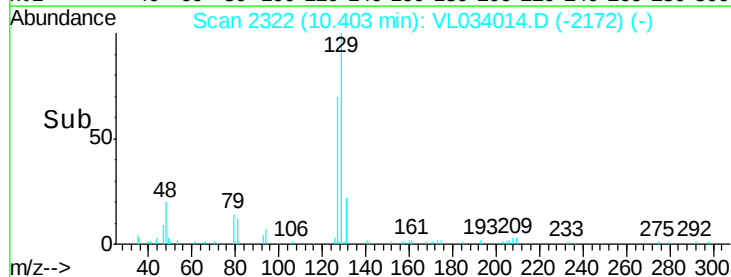
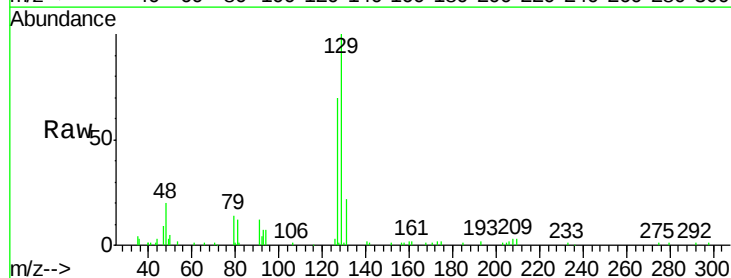
Acq: 8 Jul 2019 16:40

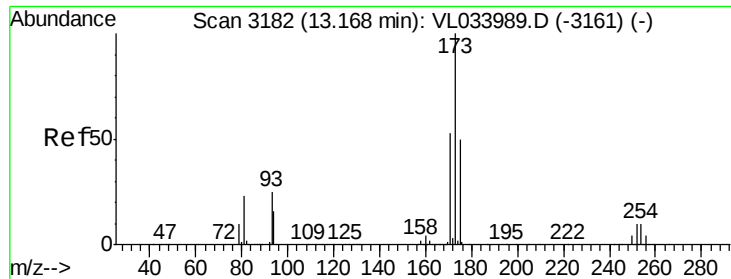
Tgt Ion: 129 Resp: 62208

Ion Ratio Lower Upper

129 100

127 79.5 39.1 117.3





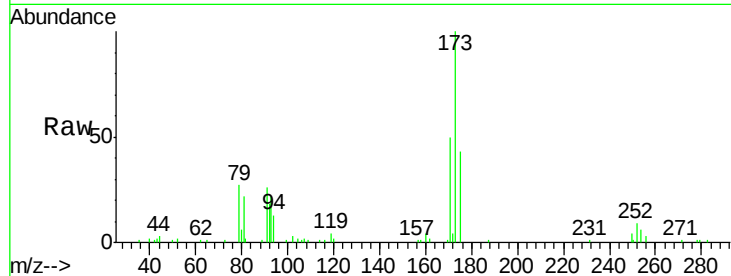
#49
Bromoform
Concen: 0.362 ppbv m
RT: 13.16 min Scan# 3178
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

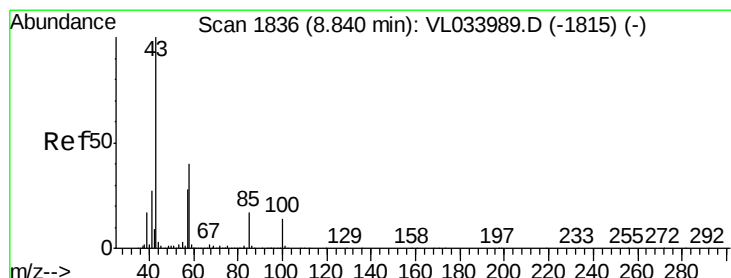
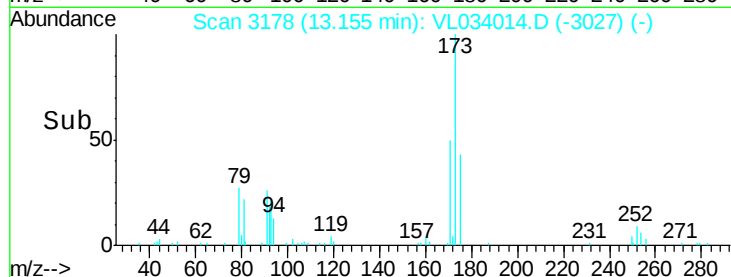
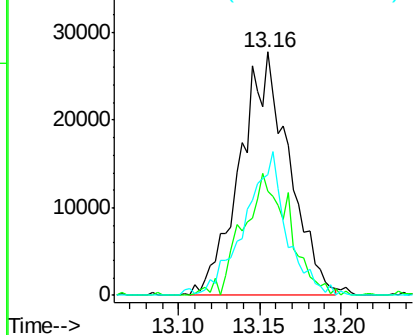
Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.3	58.9#
171	0.0	41.4	62.0#

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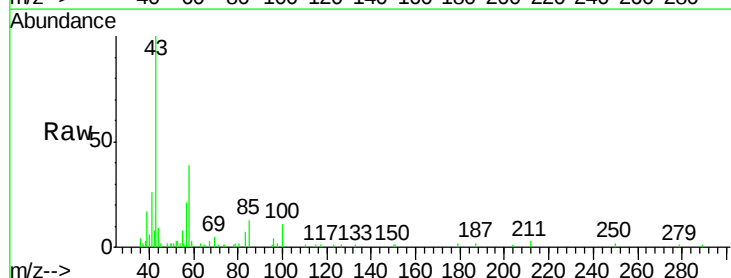


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

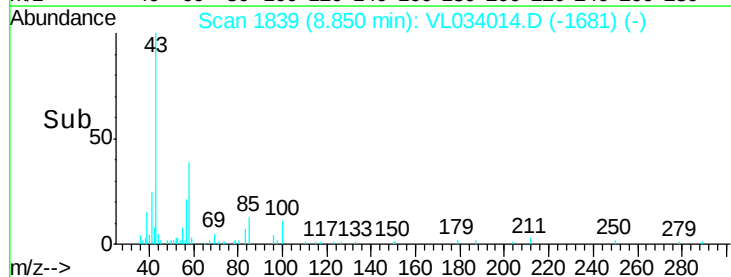
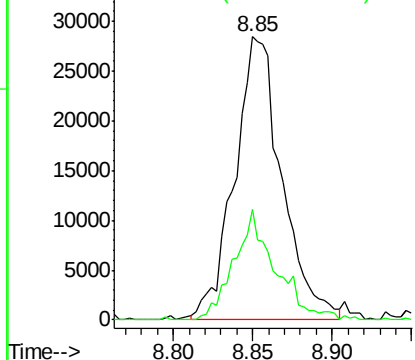


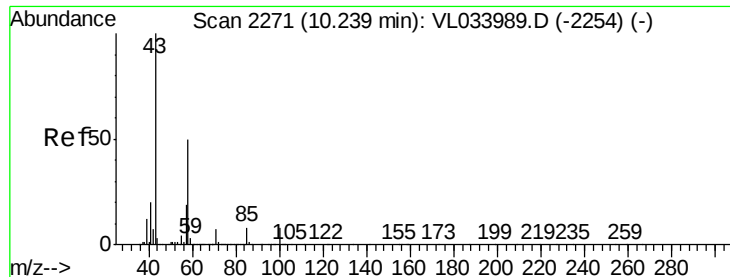
#50
4-Methyl-2-Pentanone
Concen: 0.276 ppbv m
RT: 8.85 min Scan# 1839
Delta R.T. 0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	30.3	45.5#



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





#51

2-Hexanone

Concen: 0.225 ppbv m

RT: 10.25 min Scan# 2276

Delta R.T. 0.02 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

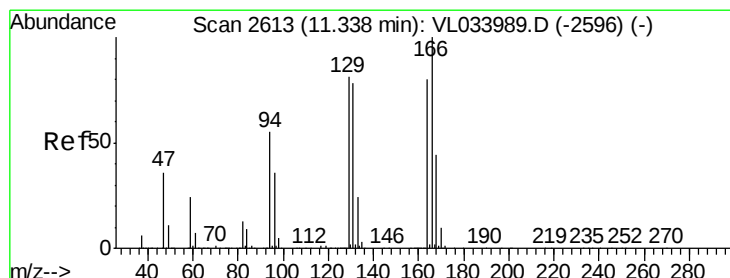
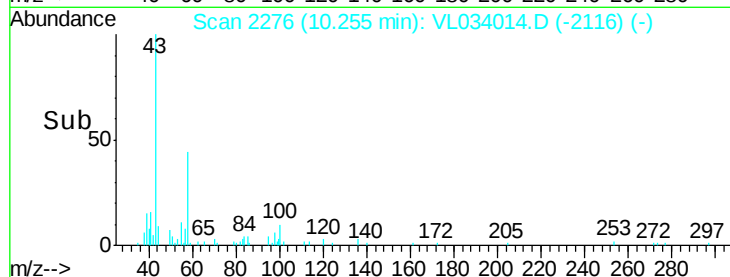
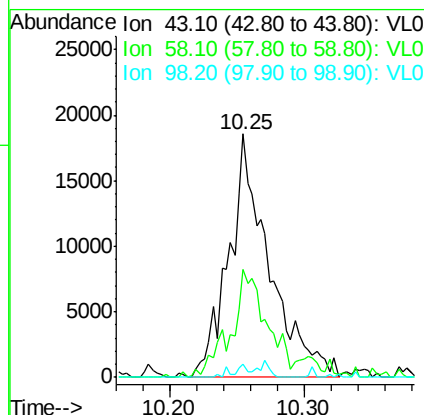
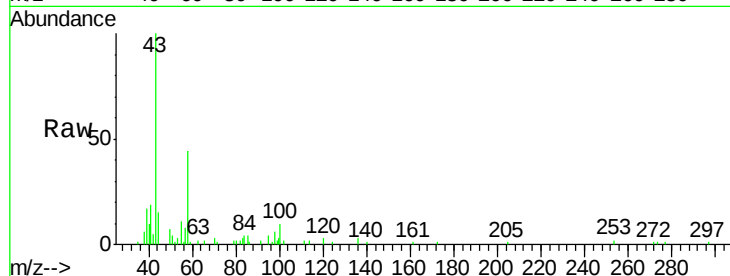
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion:	43	Resp:	38693
Ion Ratio	Lower	Upper	
43	100		
58	0.0	41.0	61.4#
98	0.0	0.2	0.2#

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#52

Tetrachloroethene

Concen: 0.332 ppbv m

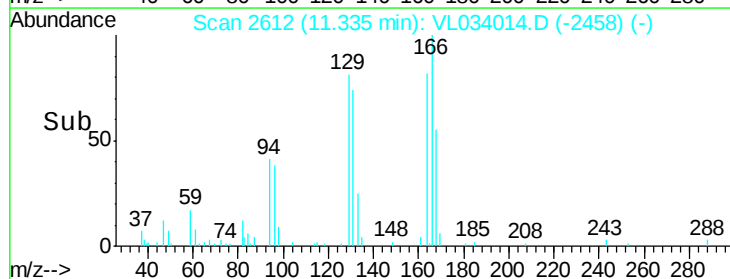
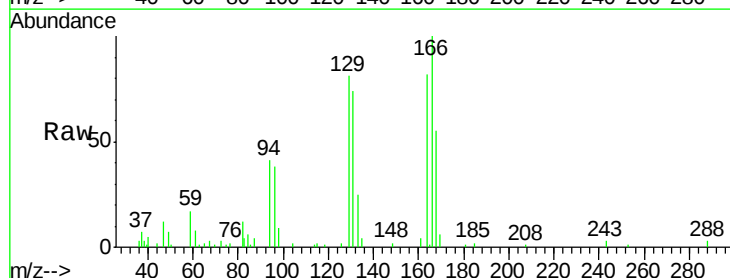
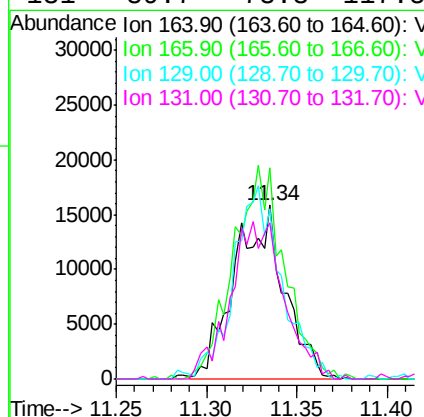
RT: 11.34 min Scan# 2612

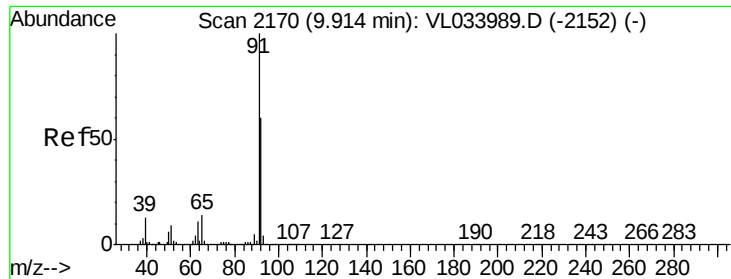
Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion:	164	Resp:	30348
Ion Ratio	Lower	Upper	
164	100		
166	121.4	100.2	150.2
129	97.7	81.0	121.6
131	89.7	78.3	117.5





#53

Toluene

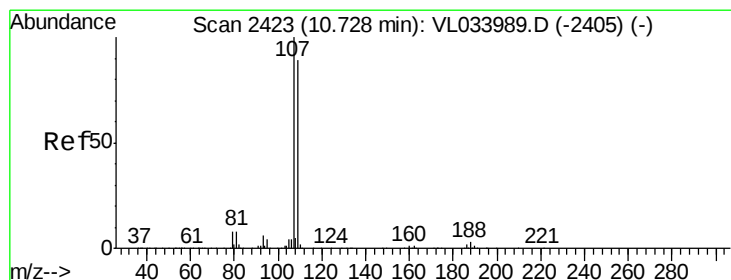
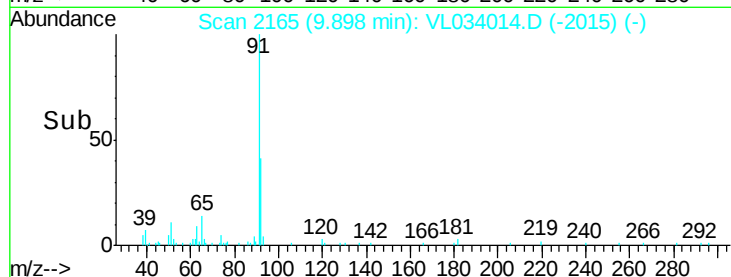
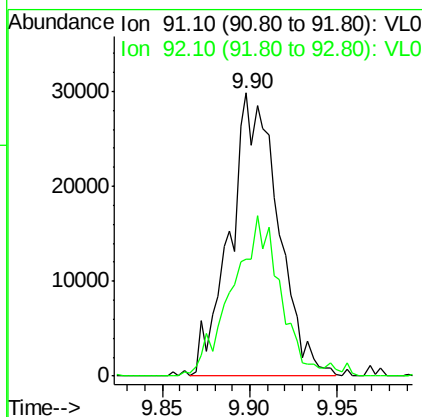
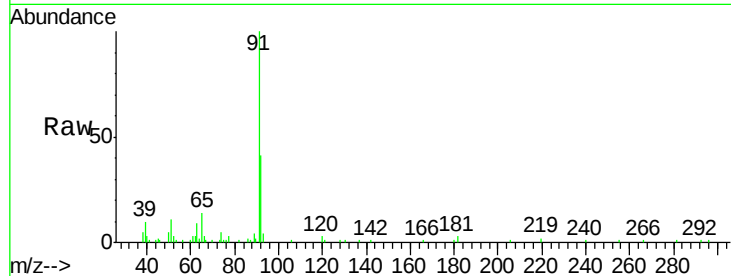
Concen: 0.237 ppbv m
RT: 9.90 min Scan# 2165
Delta R.T. -0.02 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion: 91 Resp: 57512
Ion Ratio Lower Upper
91 100
92 0.0 47.7 71.5#

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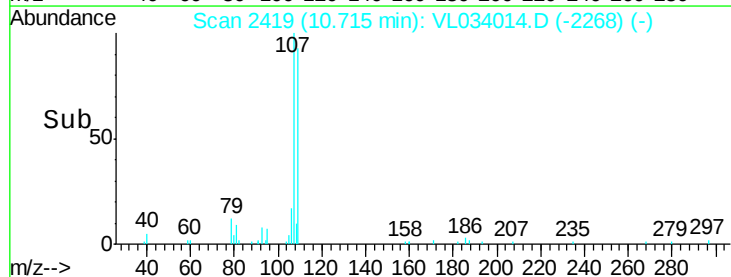
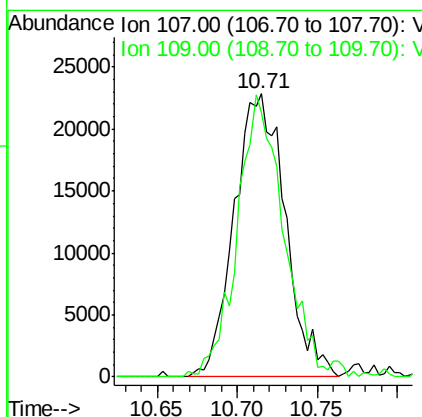
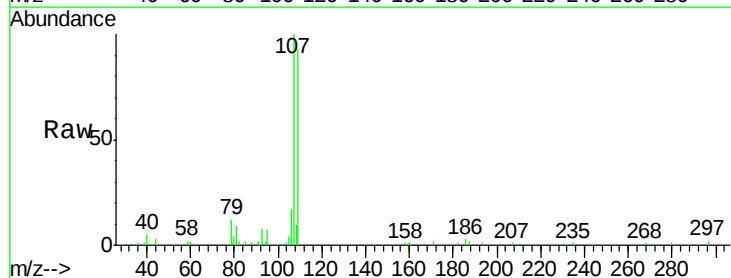


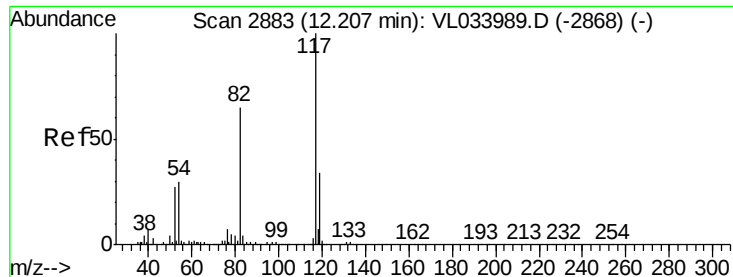
#54

1,2-Dibromoethane

Concen: 0.339 ppbv m
RT: 10.71 min Scan# 2419
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion:107 Resp: 49703
Ion Ratio Lower Upper
107 100
109 93.5 71.5 107.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.19 min Scan# 2879

Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

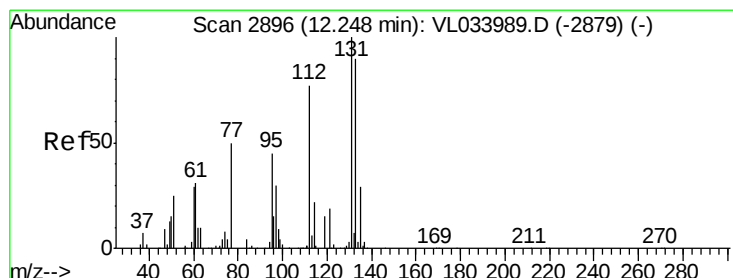
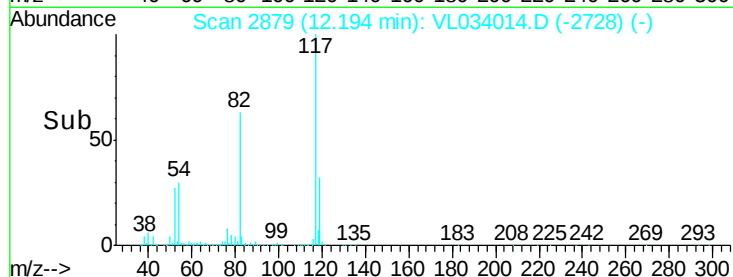
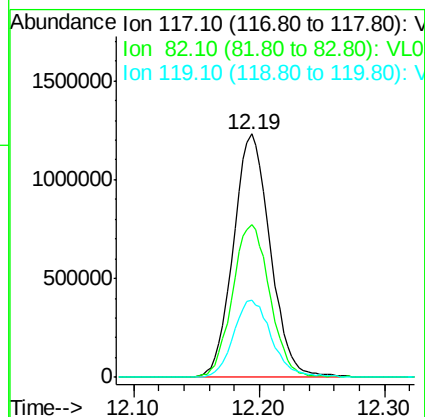
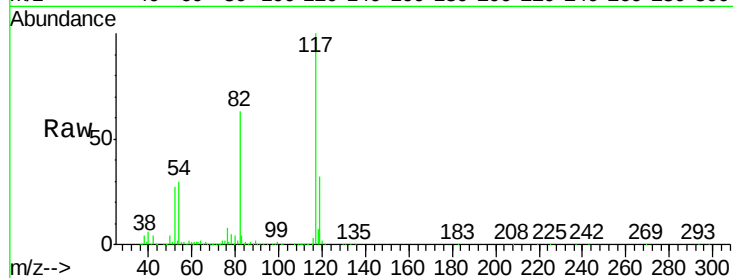
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion:	117	Resp:	2502331
Ion	Ratio	Lower	Upper
117	100		
82	64.7	50.8	76.2
119	33.2	24.0	36.0

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#56

1,1,1,2-Tetrachloroethane

Concen: 0.463 ppbv m

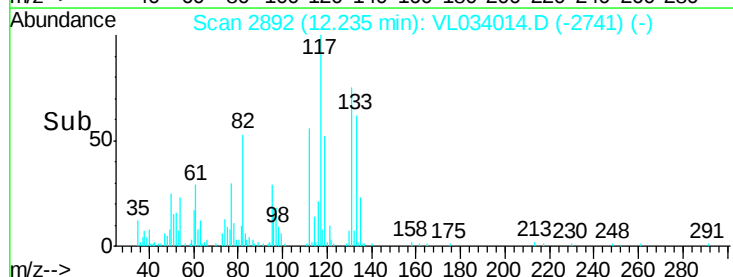
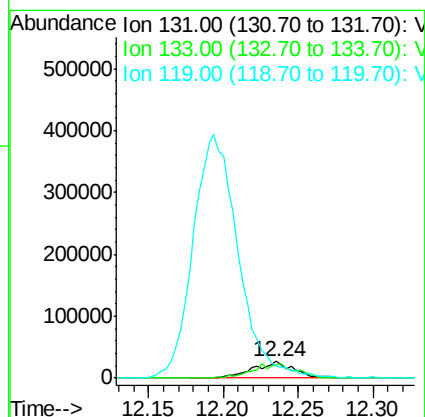
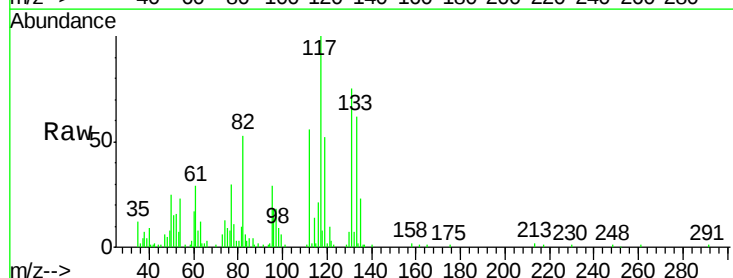
RT: 12.24 min Scan# 2892

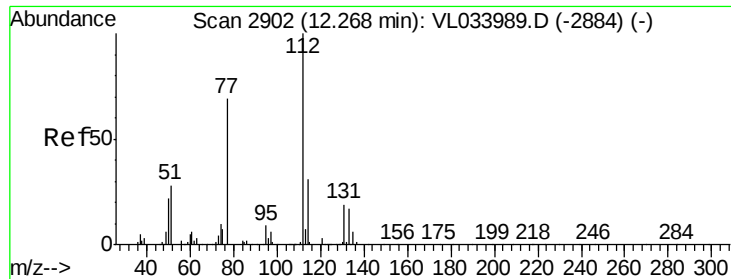
Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion:	131	Resp:	51806
Ion	Ratio	Lower	Upper
131	100		
133	0.0	76.2	114.2#
119	0.0	43.1	64.7#





#57

Chlorobenzene

Concen: 0.416 ppbv m

RT: 12.25 min Scan# 2895

Delta R.T. -0.02 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

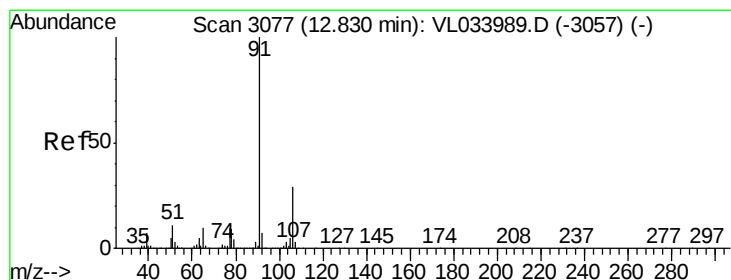
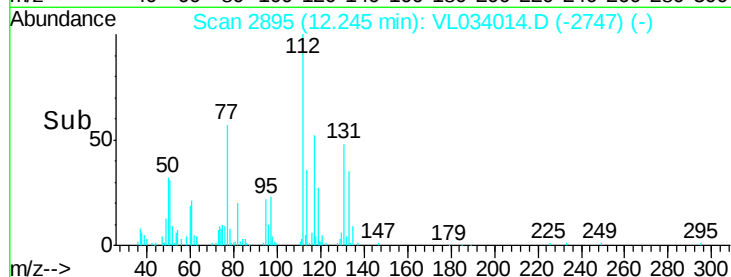
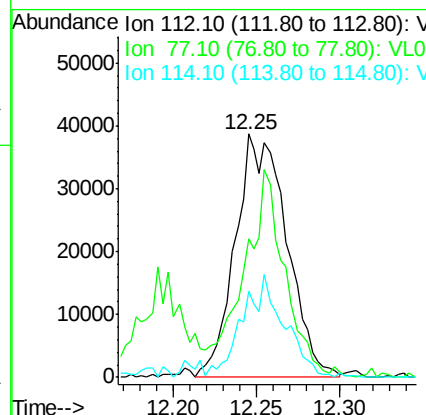
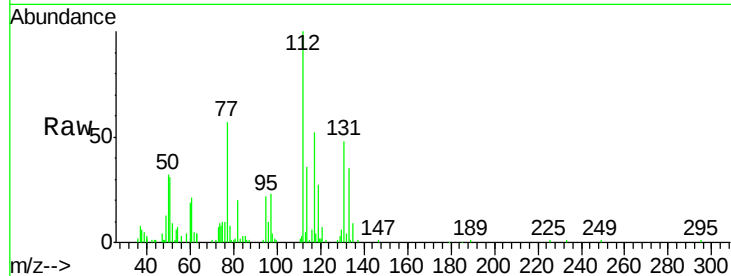
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
112	100		
77	56.9	55.9	83.9
114	35.5	27.6	33.8

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#58

Ethyl Benzene

Concen: 0.264 ppbv m

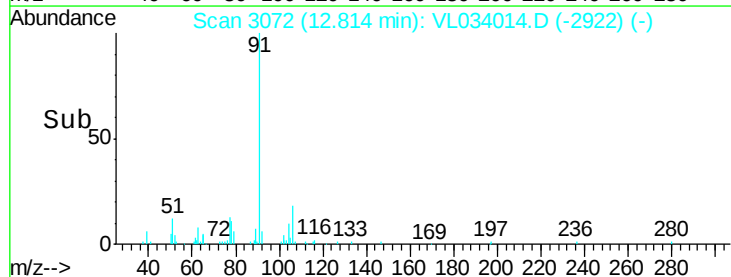
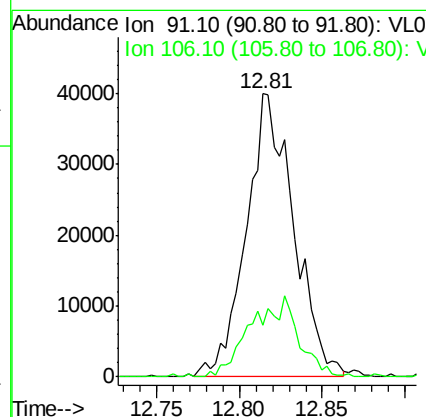
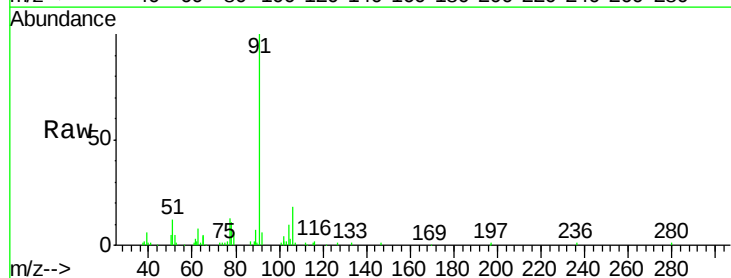
RT: 12.81 min Scan# 3072

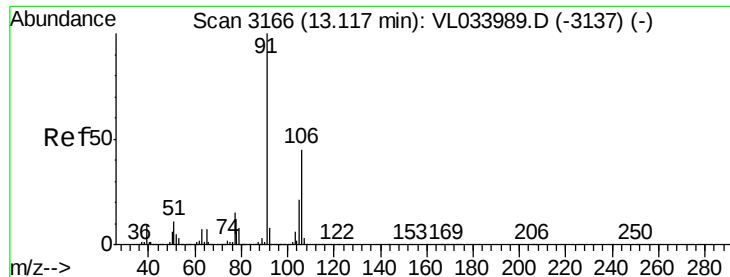
Delta R.T. -0.02 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	18.1	23.3	34.9





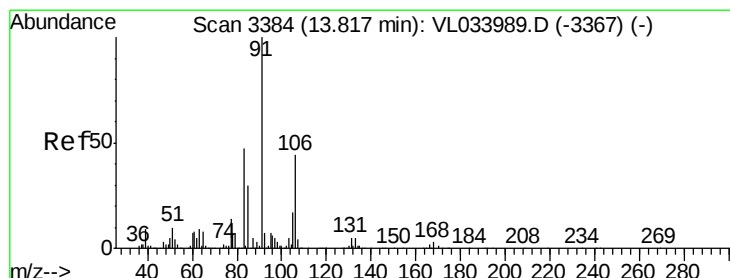
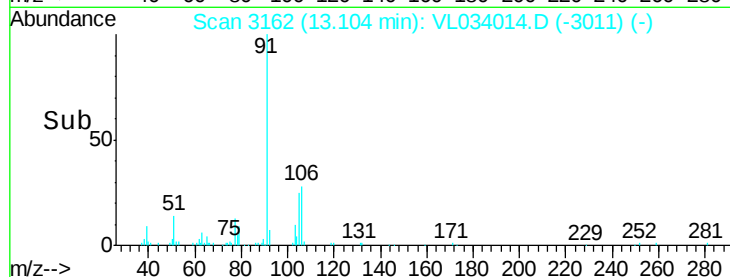
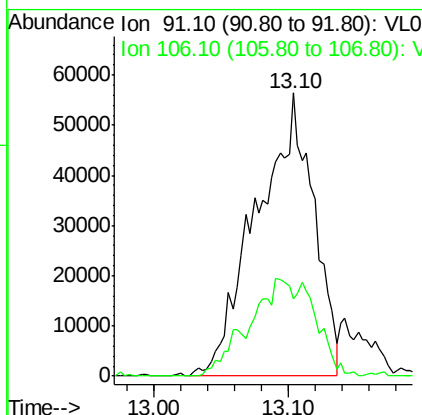
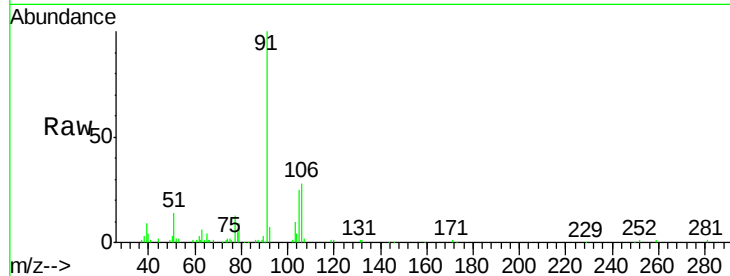
#59
m/p-Xylene
Concen: 0.607 ppbv m
RT: 13.10 min Scan# 3162
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion: 91 Resp: 165296
Ion Ratio Lower Upper
91 100
106 0.0 35.7 53.5#

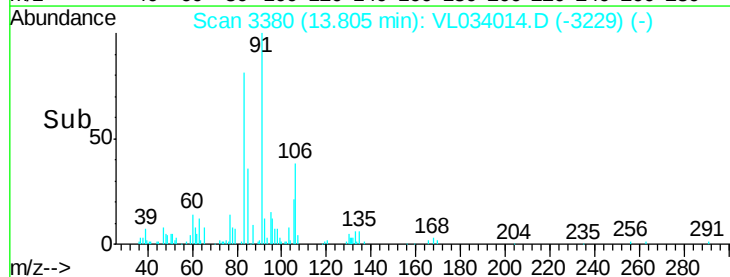
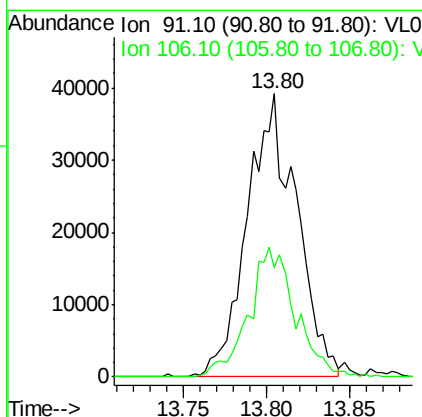
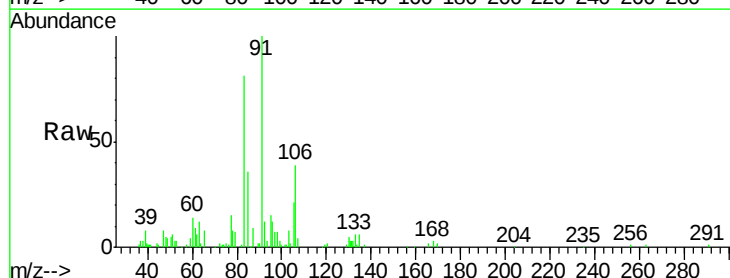
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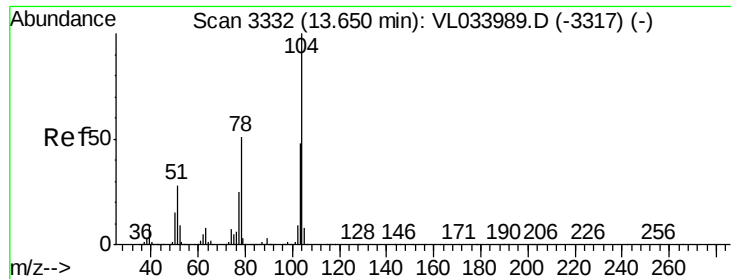
MMDadoda
7/10/2019 8:50:10 AM



#60
o-Xylene
Concen: 0.296 ppbv m
RT: 13.80 min Scan# 3380
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion: 91 Resp: 80736
Ion Ratio Lower Upper
91 100
106 43.4 21.9 65.7





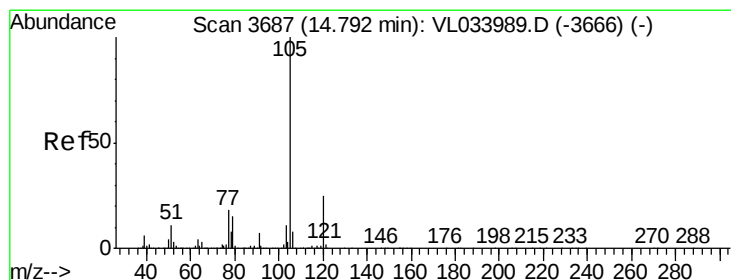
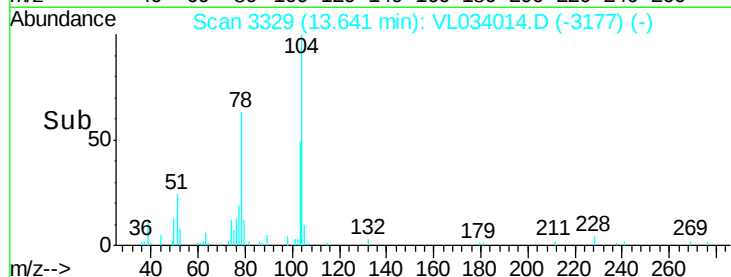
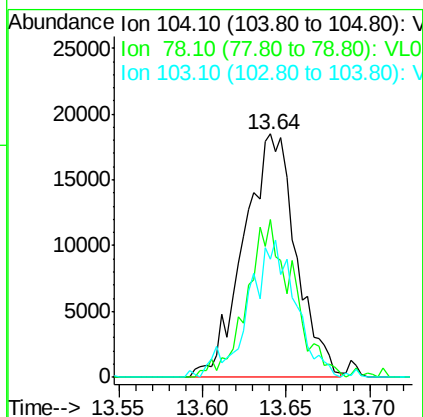
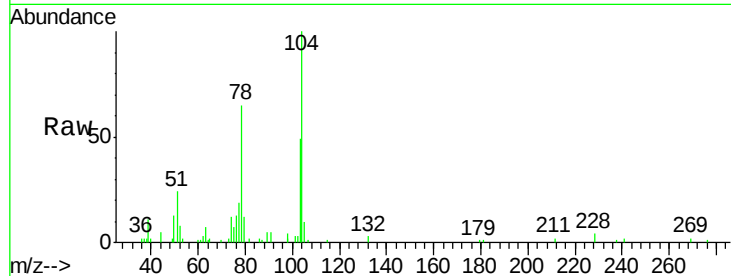
#61
Stvrene
Concen: 0.222 ppbv m
RT: 13.64 min Scan# 3329
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.2	43.9	65.9
103	0.0	38.1	57.1#

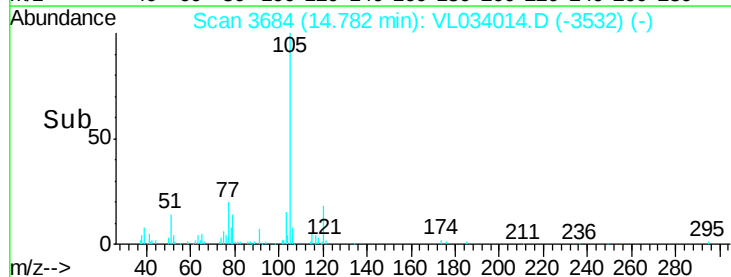
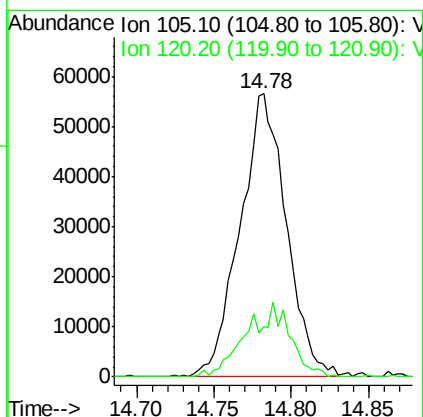
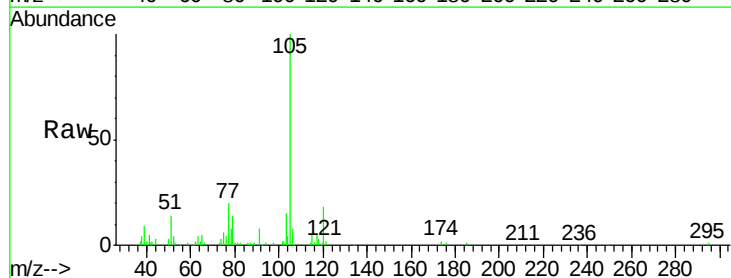
Manual Integrations
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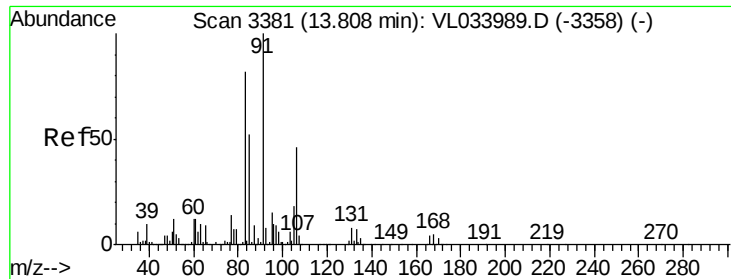
MMDadoda
7/10/2019 8:50:10 AM



#62
Isopropylbenzene
Concen: 0.281 ppbv
RT: 14.78 min Scan# 3684
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.7	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 0.417 ppbv m

RT: 13.79 min Scan# 3375

Delta R.T. -0.02 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

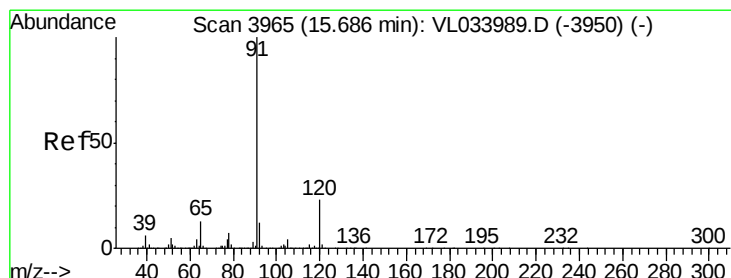
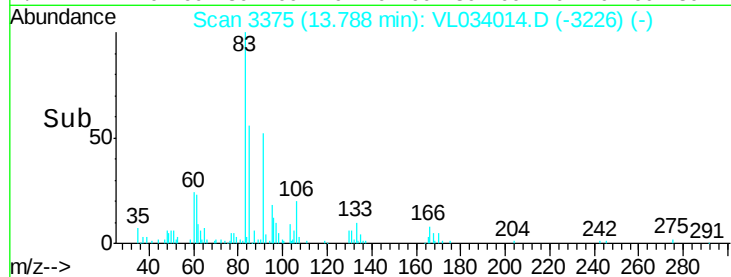
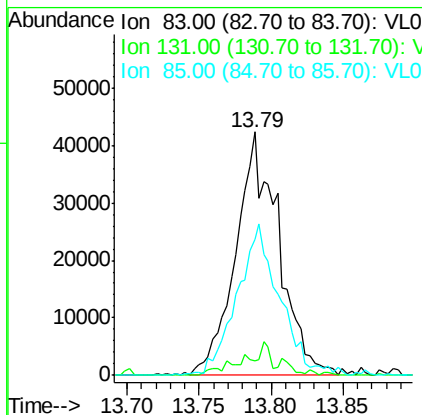
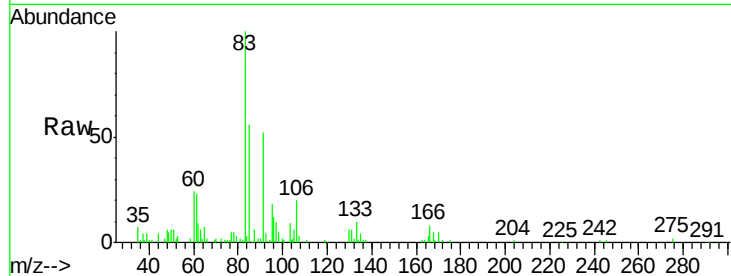
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion:	83	Resp:	87894
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.0	14.9
85	62.1	32.8	98.3

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MMDadoda
7/10/2019 8:50:10 AM



#64

n-propylbenzene

Concen: 0.290 ppbv m

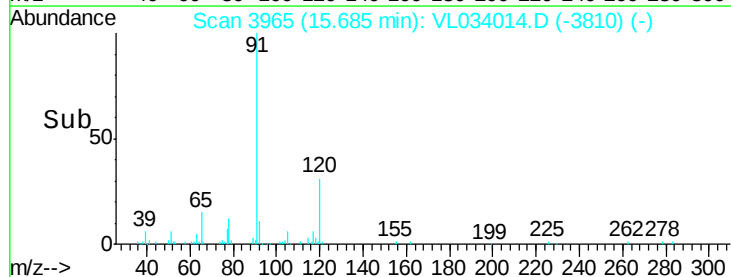
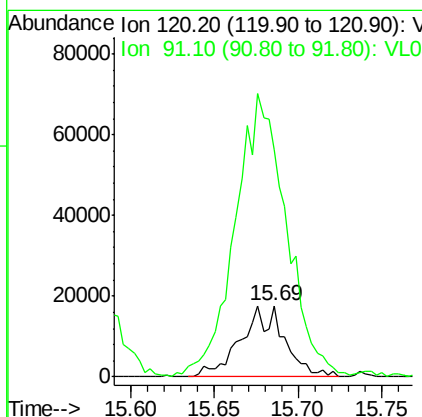
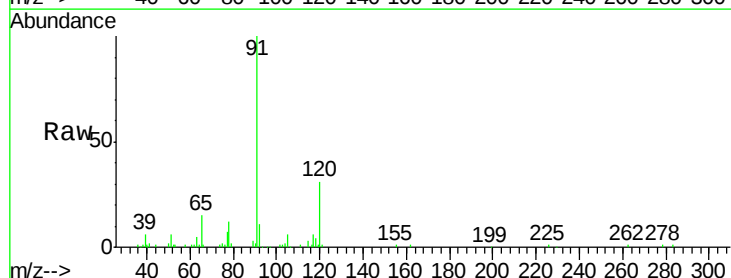
RT: 15.69 min Scan# 3965

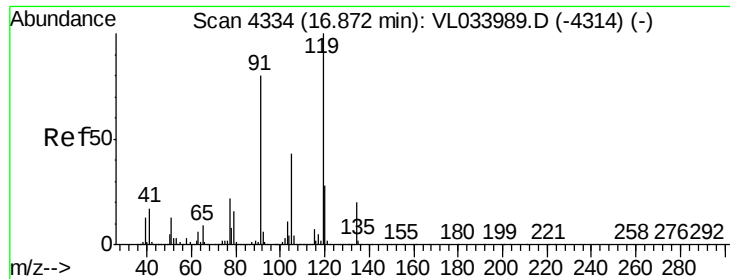
Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion:	120	Resp:	31496
Ion Ratio	Lower	Upper	
120	100		
91	479.7	386.6	579.8





#65

tert-Butylbenzene

Concen: 0.294 ppbv m

RT: 16.87 min Scan# 4333

Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

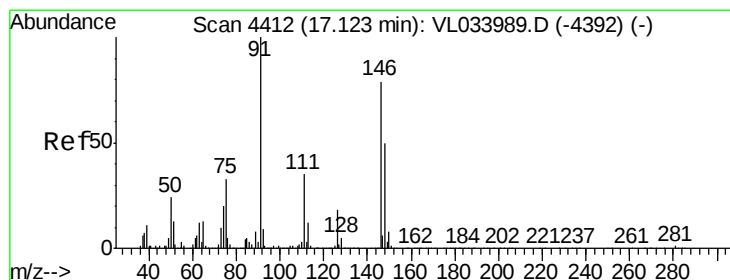
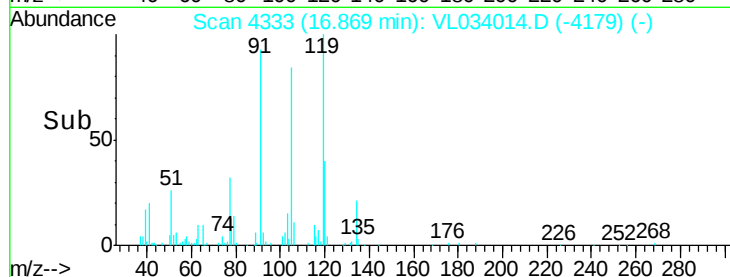
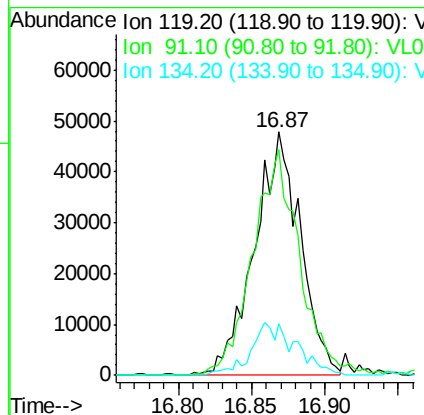
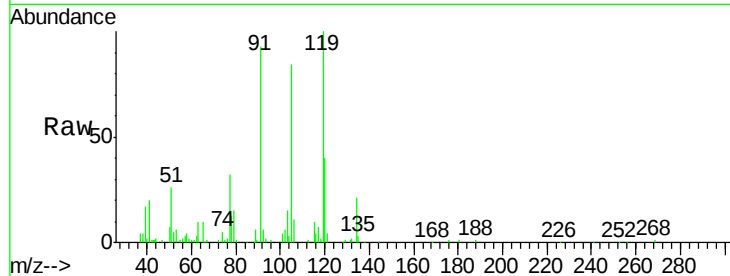
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	67.0	100.6#
134	21.1	15.8	23.6

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#66

Benzyl Chloride

Concen: 0.296 ppbv m

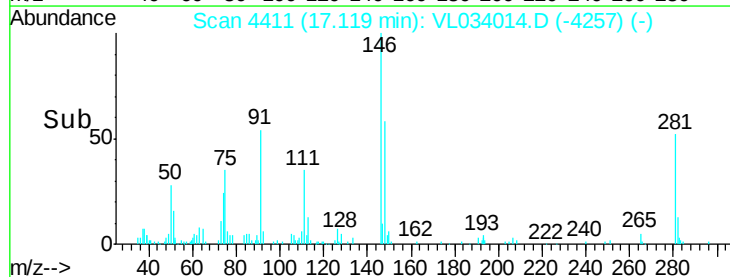
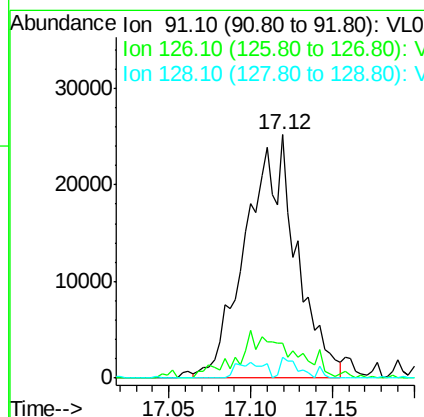
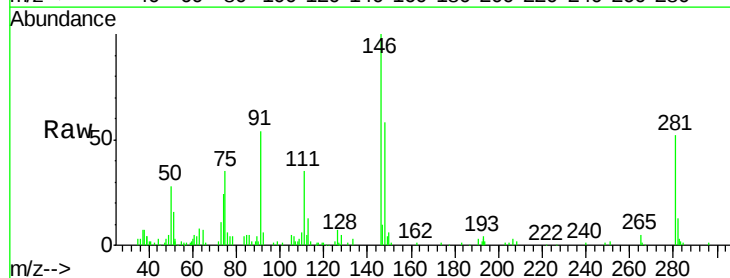
RT: 17.12 min Scan# 4411

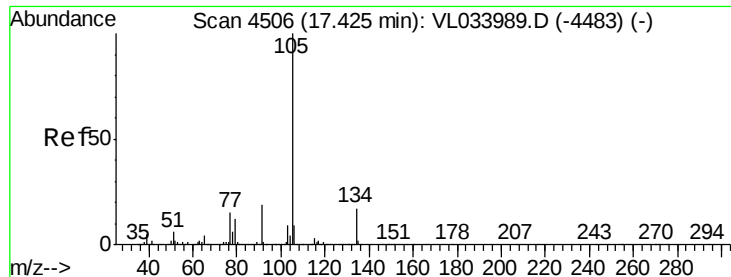
Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
91	100		
126	22.1	13.9	20.9#
128	3.7	4.6	7.0#





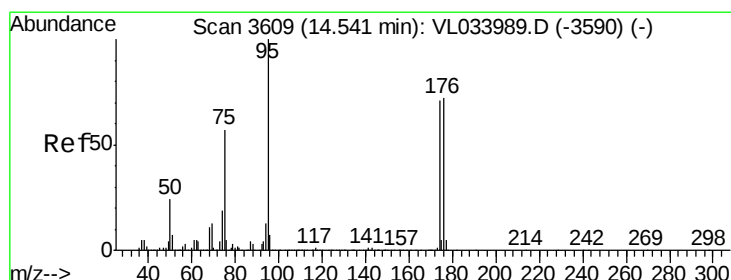
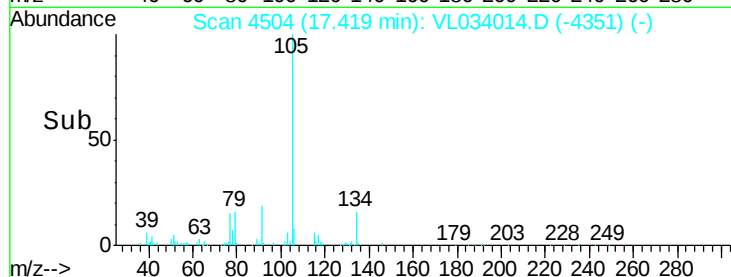
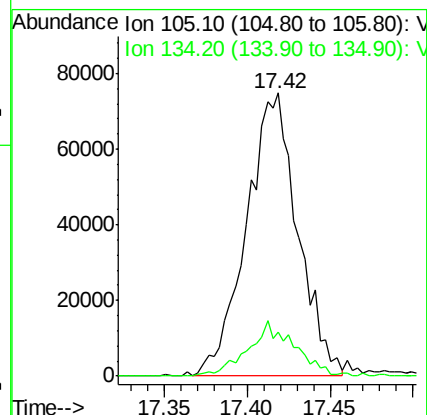
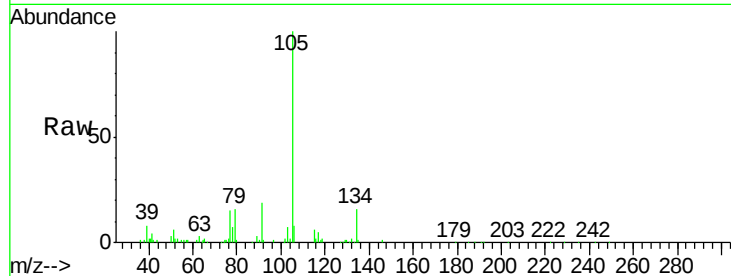
#67
 sec-Butylbenzene
 Concen: 0.322 ppbv
 RT: 17.42 min Scan# 4504
 Delta R.T. -0.01 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

Tot Ion: 105 Resp: 161276
 Ion Ratio Lower Upper
 105 100
 134 17.7 14.7 22.1

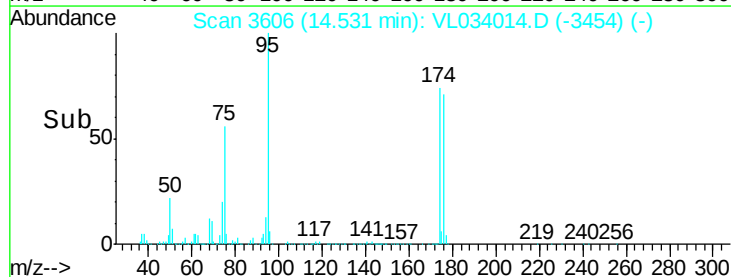
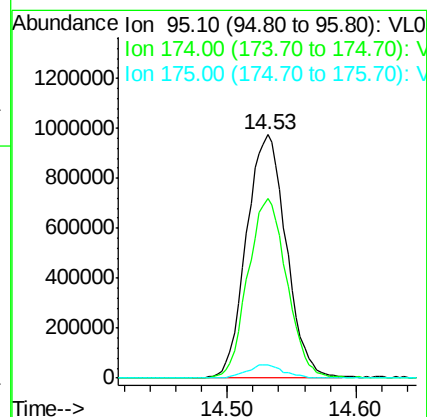
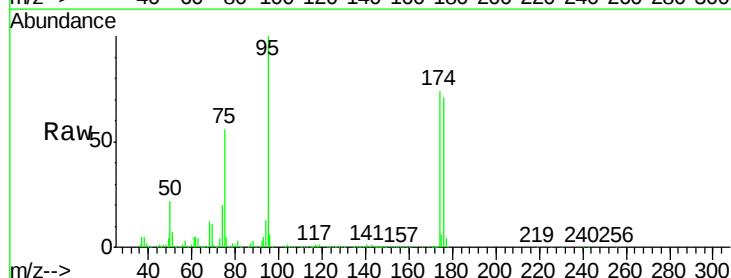
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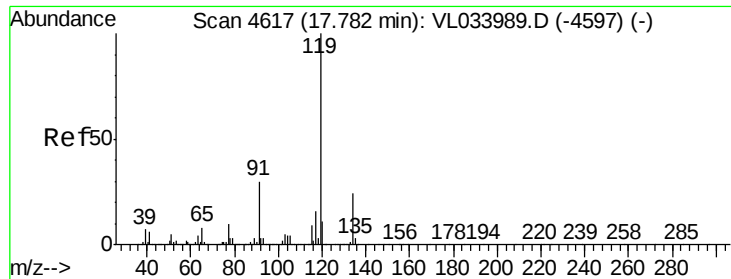
MMDadoda
 7/10/2019 8:50:10 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.820 ppbv
 RT: 14.53 min Scan# 3606
 Delta R.T. -0.01 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Tgt Ion: 95 Resp: 2095854
 Ion Ratio Lower Upper
 95 100
 174 72.8 60.5 90.7
 175 5.1 4.0 6.0





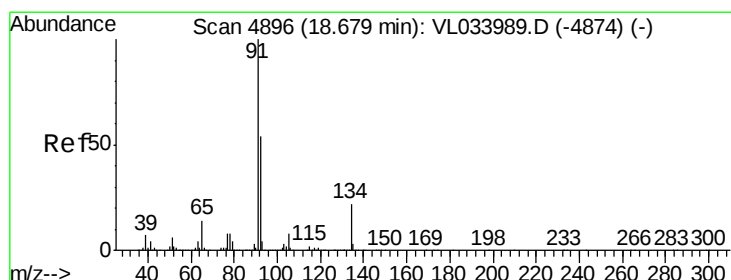
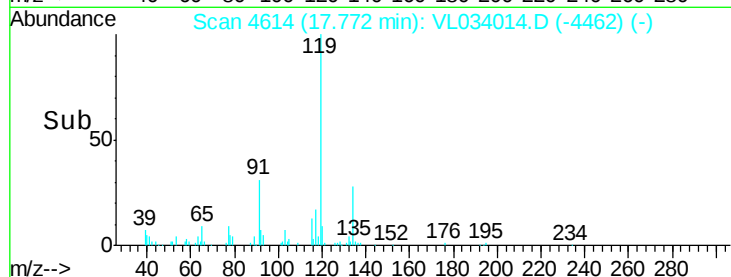
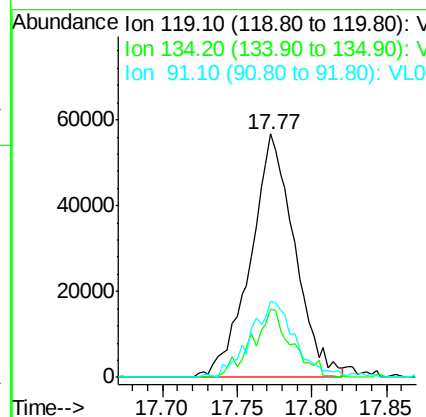
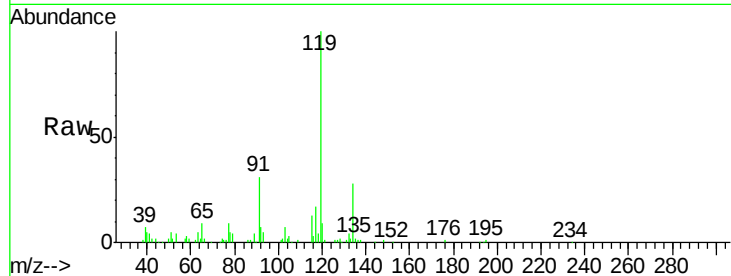
#69
p-Isopropyltoluene
Concen: 0.282 ppbv m
RT: 17.77 min Scan# 4614
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	116230		
134	25.1	20.1	30.1	
91	32.6	23.6	35.4	

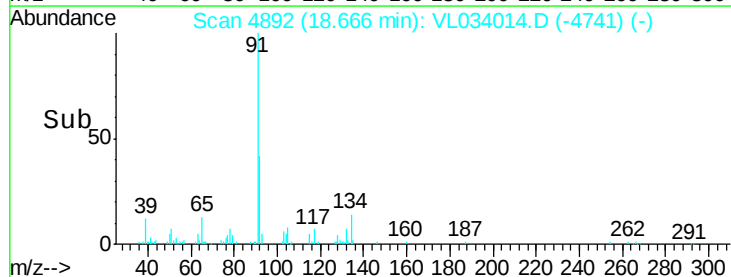
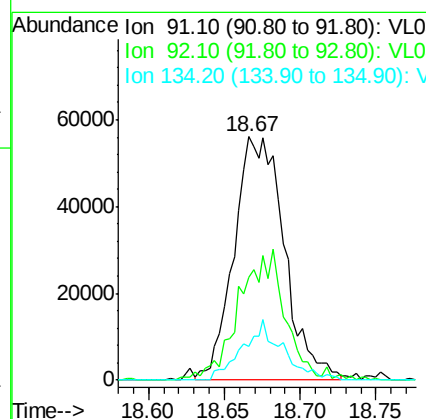
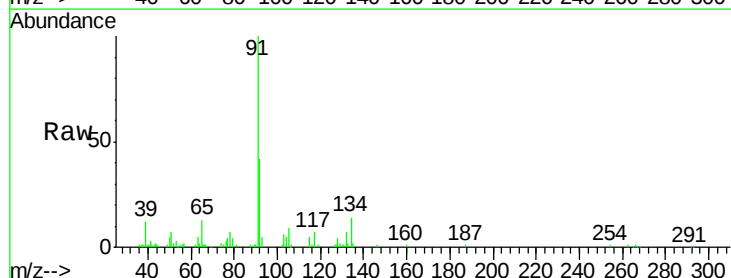
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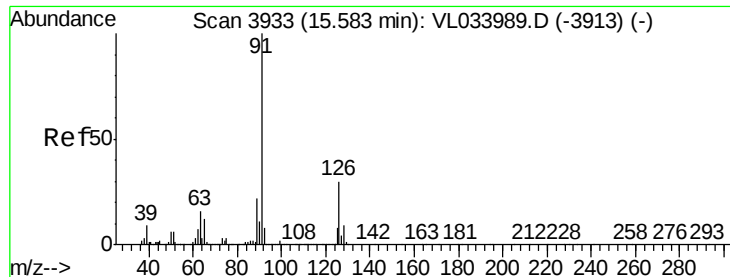
MMDadoda
7/10/2019 8:50:10 AM



#70
n-Butylbenzene
Concen: 0.297 ppbv m
RT: 18.67 min Scan# 4892
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	128697		
92	0.0	42.0	63.0#	
134	0.0	17.9	26.9#	





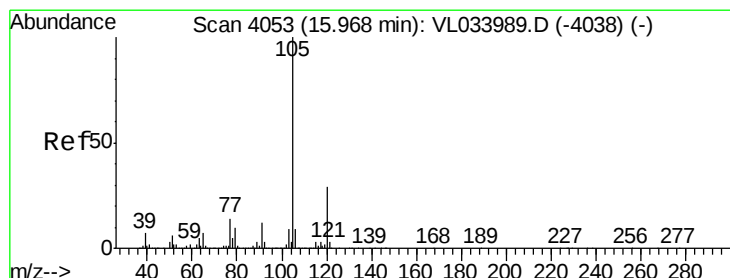
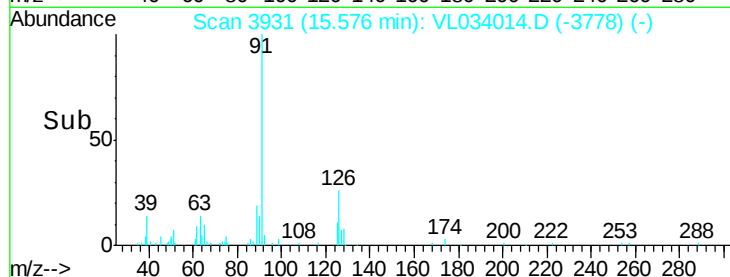
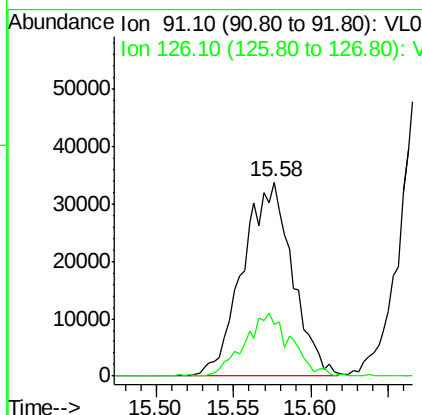
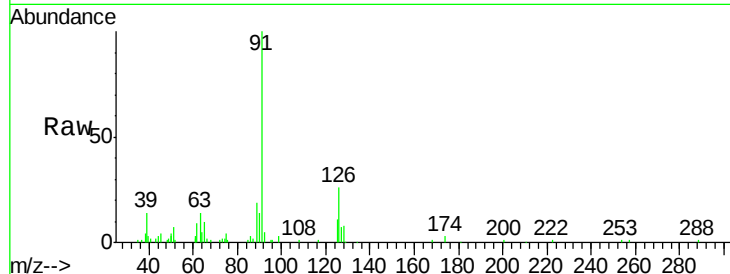
#71
2-Chlorotoluene
Concen: 0.247 ppbv m
RT: 15.58 min Scan# 3931
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tot Ion: 91 Resp: 75615
Ion Ratio Lower Upper
91 100
126 0.0 12.3 49.3#

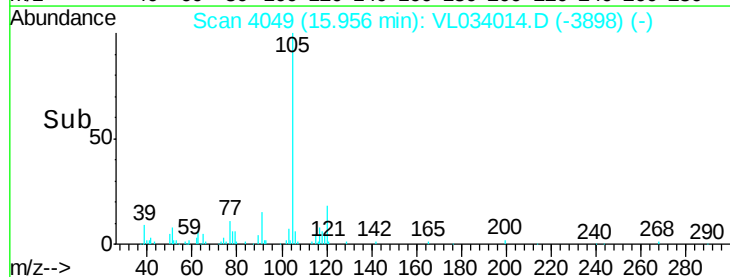
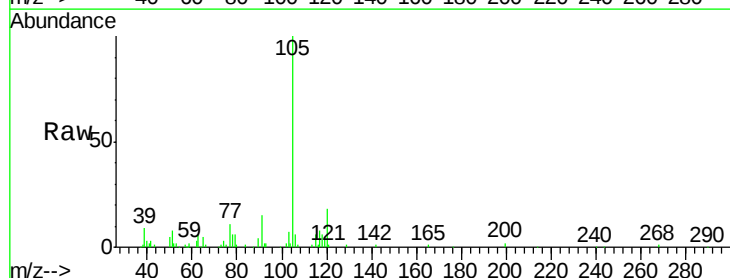
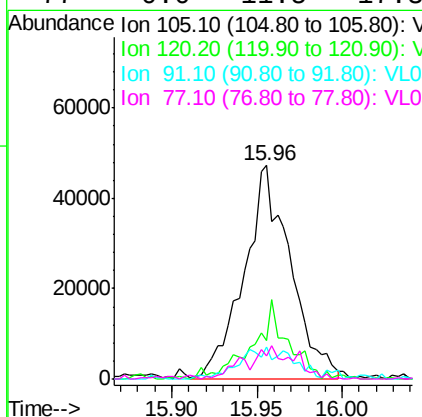
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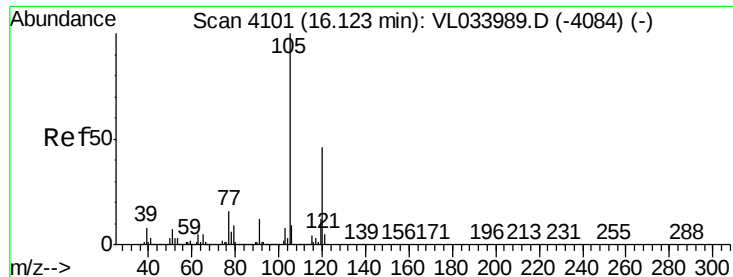
MMDadoda
7/10/2019 8:50:10 AM



#72
4-Ethyltoluene
Concen: 0.256 ppbv m
RT: 15.96 min Scan# 4049
Delta R.T. -0.01 min
Lab File: VL034014.D
Acq: 8 Jul 2019 16:40

Tgt Ion: 105 Resp: 89477
Ion Ratio Lower Upper
105 100
120 0.0 24.1 36.1#
91 18.9 10.6 16.0#
77 0.0 11.5 17.3#





#73

1,3,5-Trimethylbenzene

Concen: 0.284 ppbv m

RT: 16.12 min Scan# 4100

Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion:105 Resp: 92351

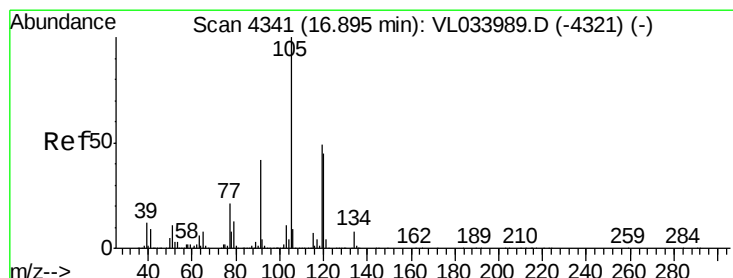
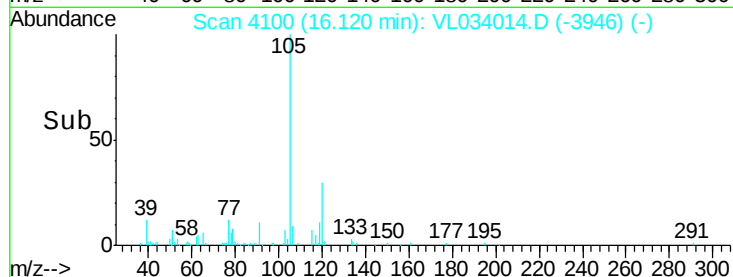
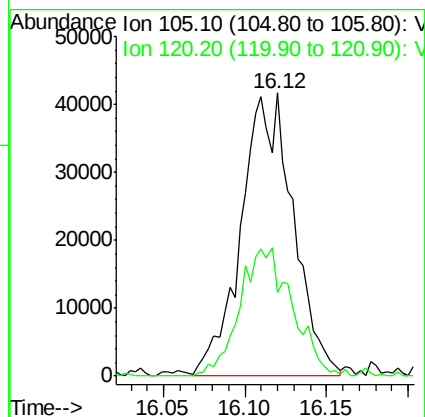
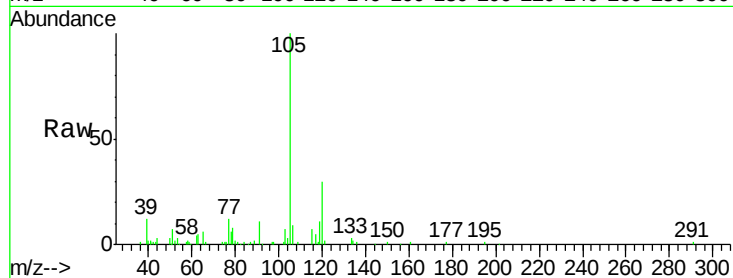
Ion Ratio Lower Upper

105 100

120 29.5 36.4 54.6#

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#74

1,2,4-Trimethylbenzene

Concen: 0.341 ppbv

RT: 16.88 min Scan# 4336

Delta R.T. -0.02 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion:105 Resp: 122838

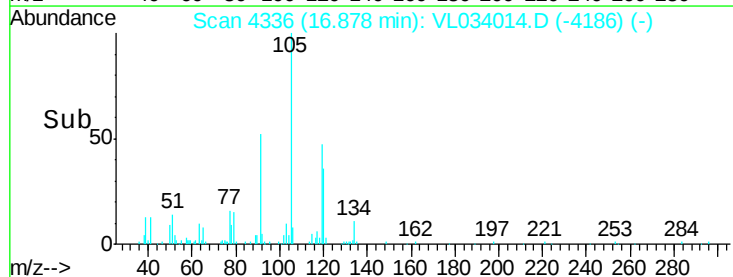
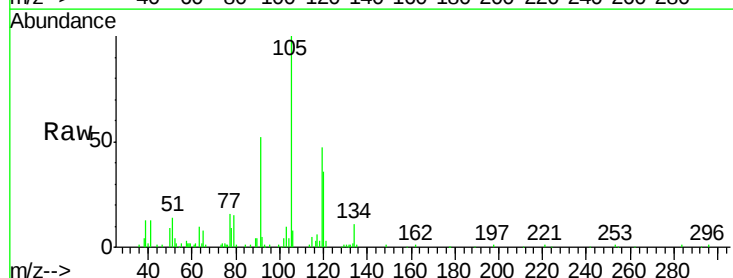
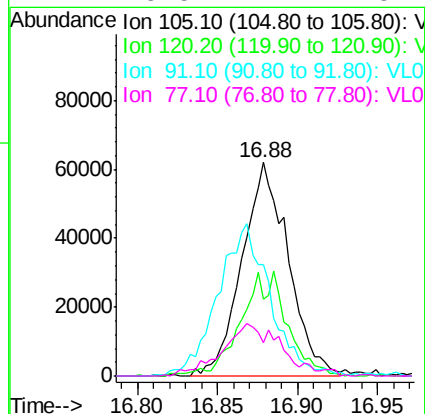
Ion Ratio Lower Upper

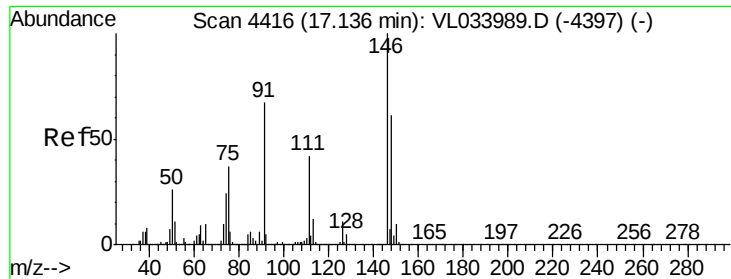
105 100

120 35.5 36.2 54.2#

91 50.0 34.3 51.5

77 15.5 17.1 25.7#





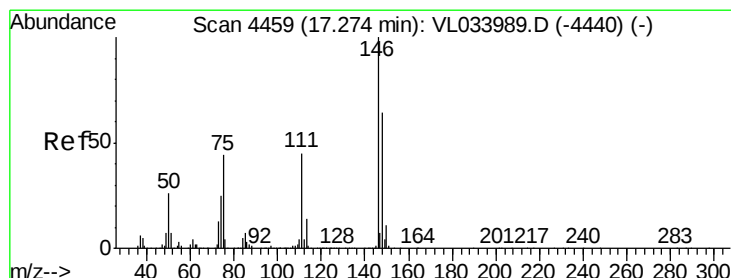
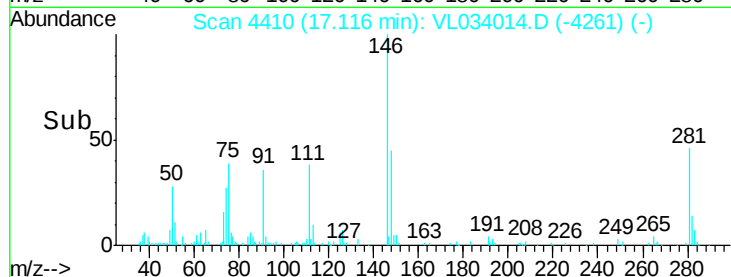
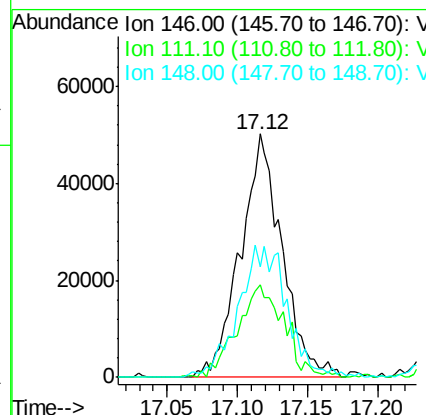
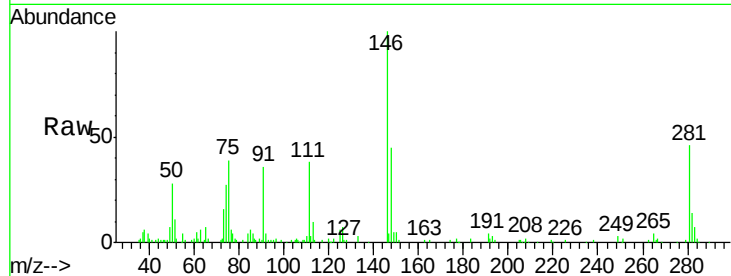
#75
 1,3-Dichlorobenzene
 Concen: 0.449 ppbv m
 RT: 17.12 min Scan# 4410
 Delta R.T. -0.02 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.3	66.9
148	63.3	32.0	96.2

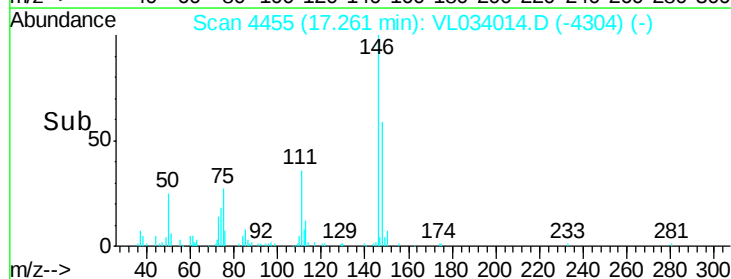
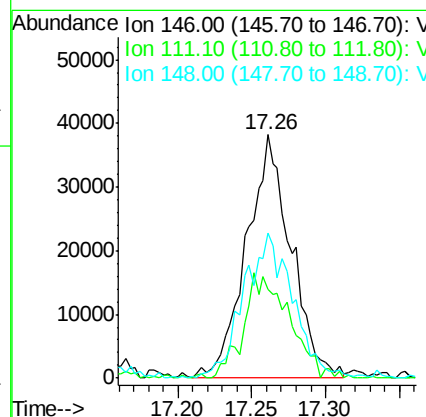
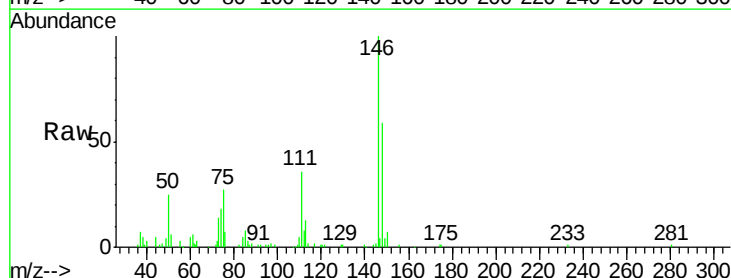
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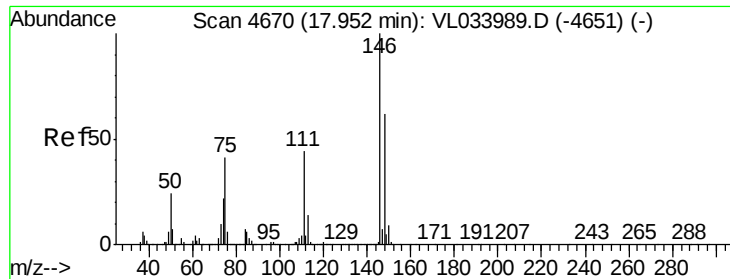
MMDadoda
 7/10/2019 8:50:10 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.373 ppbv m
 RT: 17.26 min Scan# 4455
 Delta R.T. -0.01 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.5
148	65.5	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 0.371 ppbv m

RT: 17.95 min Scan# 4668

Delta R.T. -0.01 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

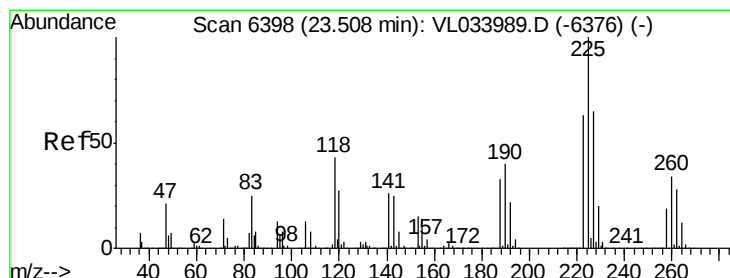
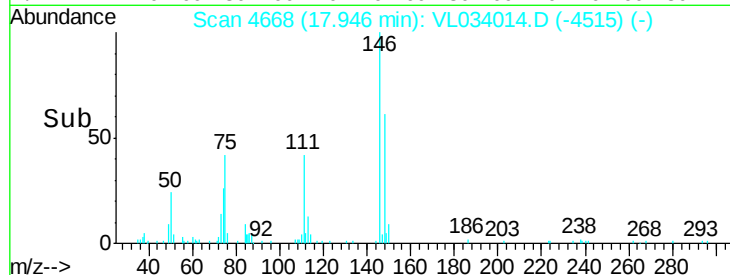
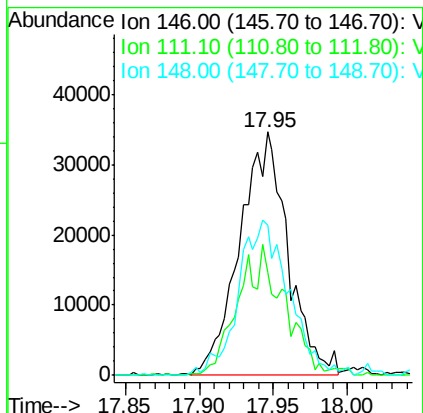
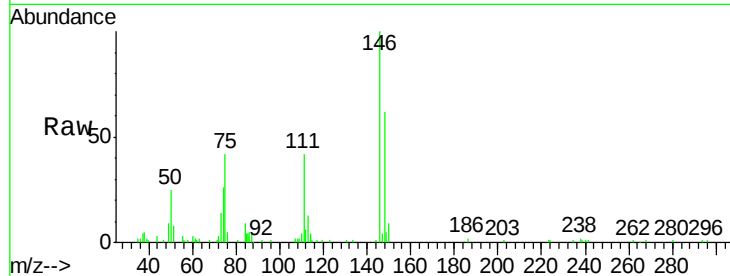
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion:	146	Resp:	78744
Ion Ratio	Lower	Upper	
146	100		
111	0.0	22.7	68.1#
148	0.0	32.1	96.3#

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#78

Hexachloro-1,3-Butadiene

Concen: 0.437 ppbv m

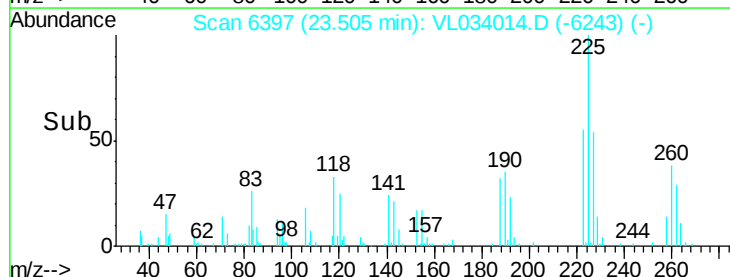
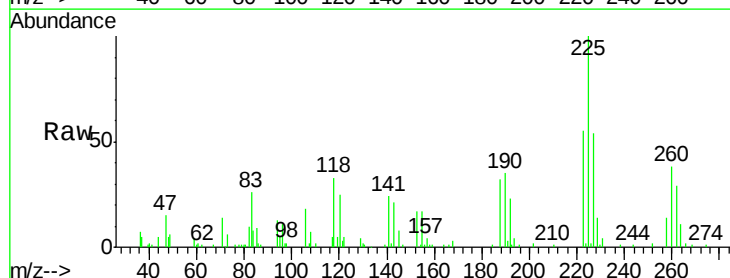
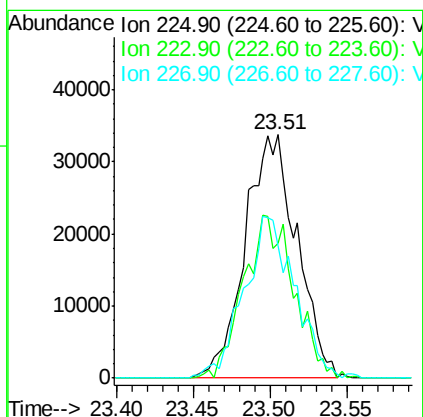
RT: 23.51 min Scan# 6397

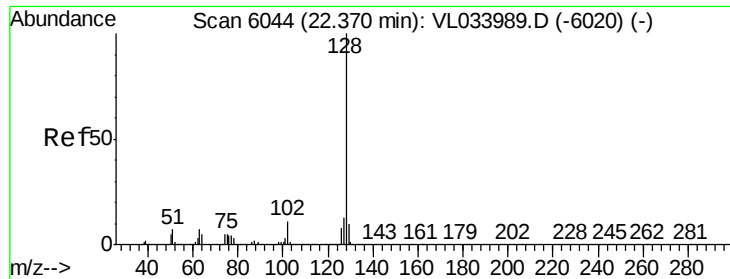
Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion:	225	Resp:	78916
Ion Ratio	Lower	Upper	
225	100		
223	65.5	51.5	77.3
227	65.4	52.1	78.1





#79

Naphthalene

Concen: 0.241 ppbv m

RT: 22.35 min Scan# 6039

Delta R.T. -0.02 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Instrument :

MSVOA_L

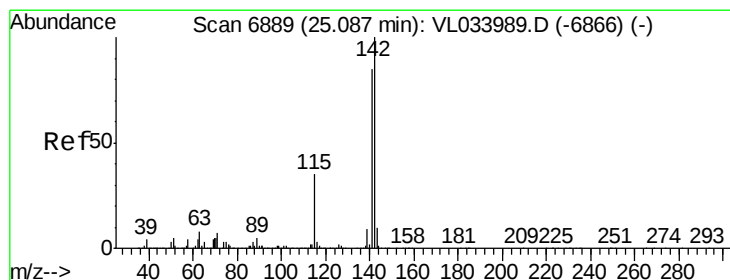
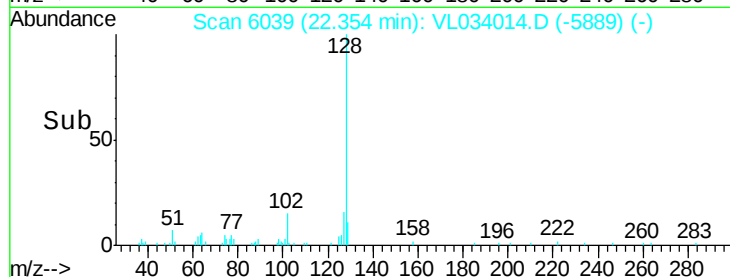
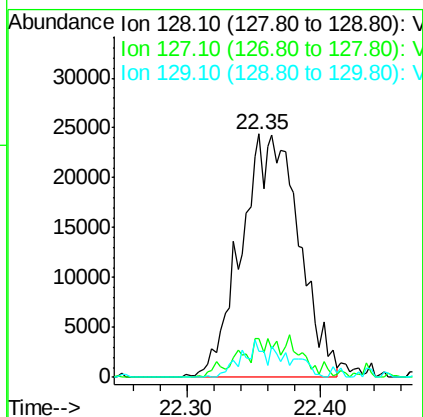
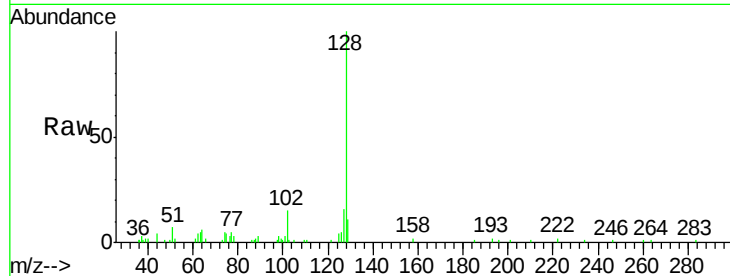
ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tot Ion:	128	Resp:	73014
Ion Ratio	Lower	Upper	
128	100		
127	16.1	10.6	15.8#
129	10.7	8.3	12.5

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#80

Naphthalene, 2-methyl-

Concen: 0.256 ppbv

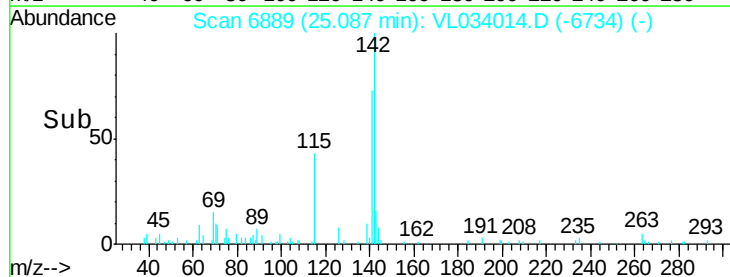
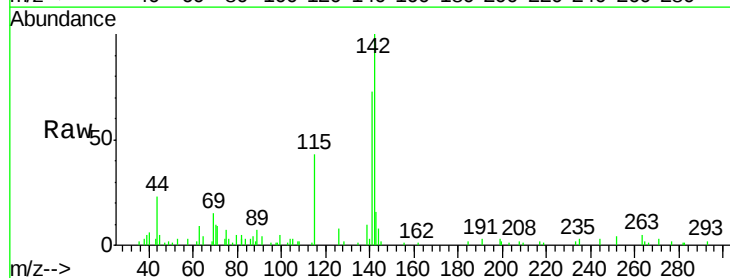
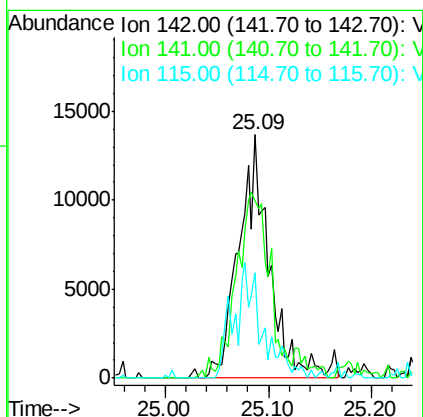
RT: 25.09 min Scan# 6889

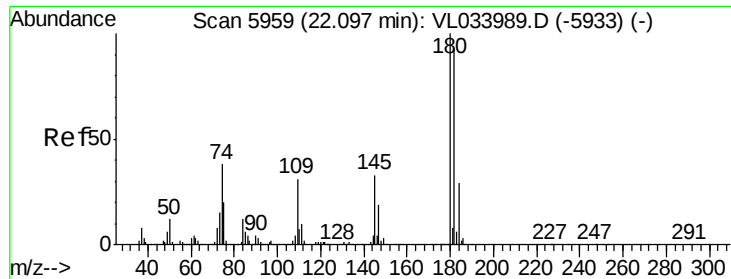
Delta R.T. -0.00 min

Lab File: VL034014.D

Acq: 8 Jul 2019 16:40

Tgt Ion:	142	Resp:	28281
Ion Ratio	Lower	Upper	
142	100		
141	87.7	68.2	102.2
115	43.2	29.9	44.9





#81
 1,2,4-Trichlorobenzene
 Concen: 0.324 ppbv m
 RT: 22.08 min Scan# 5955
 Delta R.T. -0.01 min
 Lab File: VL034014.D
 Acq: 8 Jul 2019 16:40

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

Tot Ion:	180	Resp:	63137
Ion Ratio	Lower	Upper	
180	100		
182	90.7	76.6	114.8
184	30.3	24.6	36.8

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