

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034320.D
 Acq On : 17 Oct 2019 17:23
 Operator : SY/AP
 Sample : K5111-15 0.4 PPB MDL
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:54:48 PM

Quant Time: Oct 20 19:04:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 19:04:24 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1000376	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1936764	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1927670	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1703001	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	81179	0.471	ppbv	97
3) Chlorodifluoromethane	2.97	51	51839	0.442	ppbv	99
4) Chloromethane	3.12	50	30634	0.442	ppbv	100
5) Vinyl Chloride	3.24	62	28332	0.428	ppbv	97
6) Bromomethane	3.46	94	13985	0.432	ppbv	92
7) Chloroethane	3.55	64	10459m	0.449	ppbv	
8) Dichlorotetrafluoroethane	3.17	85	68457	0.458	ppbv	99
9) Propene	2.99	41	19868	0.382	ppbv	97
10) Heptane	8.17	43	46438	0.348	ppbv	95
11) Trichlorofluoromethane	3.95	101	71994	0.440	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	50053m	0.467	ppbv	
13) Ethanol	3.61	45	6264m	0.538	ppbv	
14) Bromoethene	3.73	108	17395m	0.412	ppbv	
15) Acetone	3.85	43	81445	0.569	ppbv	96
16) 1,3-Butadiene	3.31	39	25523m	0.439	ppbv	
17) tert-Butyl alcohol	4.31	59	45748	0.501	ppbv	97
18) 1,1-Dichloroethene	4.29	96	18375	0.391	ppbv	87
19) Isopropyl Alcohol	3.99	45	38776m	0.486	ppbv	
20) Methylene Chloride	4.35	84	28074m	0.543	ppbv	
21) Allyl Chloride	4.42	41	29812	0.377	ppbv	91
22) trans-1,2-Dichloroethene	4.89	96	19376m	0.414	ppbv	
23) Vinyl Acetate	5.09	43	78475m	0.439	ppbv	
24) 1,1-Dichloroethane	5.02	63	54981	0.415	ppbv	99
25) Ethyl Acetate	5.71	43	97379	0.403	ppbv	99
26) Hexane	5.72	57	39543	0.384	ppbv	91
27) Carbon Disulfide	4.56	76	39385m	0.368	ppbv	
28) Methyl tert-Butyl Ether	5.06	73	57763m	0.371	ppbv	
29) Chloroform	5.78	83	71089	0.436	ppbv #	83
30) Cyclohexane	7.17	84	28568m	0.377	ppbv	
31) cis-1,2-Dichloroethene	5.57	61	35836	0.343	ppbv #	87
32) 1,1,1-Trichloroethane	6.54	97	59799	0.378	ppbv	95
34) 2-Butanone	5.28	43	60043m	0.379	ppbv	
35) Carbon Tetrachloride	7.06	117	65906m	0.391	ppbv	
36) Benzene	6.92	78	66484m	0.358	ppbv	
37) 1,2-Dichloroethane	6.33	62	57367m	0.414	ppbv	
38) Trichloroethene	7.88	130	27776m	0.372	ppbv	
39) 1,2-Dichloropropane	7.65	63	31209m	0.390	ppbv	
40) 1,4-Dioxane	7.92	88	12494m	0.444	ppbv	
41) Tetrahydrofuran	6.10	42	25846m	0.294	ppbv	
42) Bromodichloromethane	7.83	83	69321	0.409	ppbv	99
43) Methyl Methacrylate	8.06	69	24097m	0.314	ppbv	

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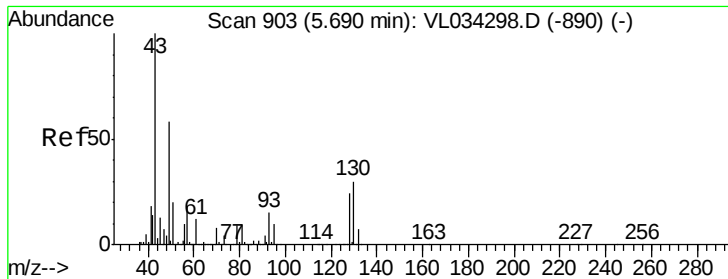
Manual Integrations
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Quant Time: Oct 20 19:04:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	117349	0.341	ppbv	92
45) t-1,3-Dichloropropene	9.34	75	26046m	0.278	ppbv	
46) cis-1,3-Dichloropropene	8.75	75	30292m	0.282	ppbv	
47) 1,1,2-Trichloroethane	9.53	97	32299	0.399	ppbv #	91
48) Dibromochloromethane	10.37	129	46515	0.350	ppbv	100
49) Bromoform	13.12	173	40953	0.348	ppbv	96
50) 4-Methyl-2-Pentanone	8.81	43	74497	0.329	ppbv	97
51) 2-Hexanone	10.21	43	60205m	0.324	ppbv	
52) Tetrachloroethene	11.29	164	26245m	0.360	ppbv	
53) Toluene	9.86	91	65176	0.318	ppbv	91
54) 1,2-Dibromoethane	10.67	107	46274m	0.385	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.19	131	37613m	0.423	ppbv	
57) Chlorobenzene	12.22	112	67978	0.423	ppbv #	76
58) Ethyl Benzene	12.78	91	92252	0.342	ppbv	89
59) m/p-Xylene	13.07	91	180786m	0.774	ppbv	
60) o-Xylene	13.76	91	85243	0.367	ppbv	97
61) Styrene	13.61	104	51939m	0.317	ppbv	
62) Isopropylbenzene	14.74	105	114837	0.374	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.75	83	75658	0.405	ppbv	99
64) n-propylbenzene	15.64	120	28332m	0.360	ppbv	
65) tert-Butylbenzene	16.82	119	101585m	0.373	ppbv	
66) Benzyl Chloride	17.08	91	31837m	0.296	ppbv	
67) sec-Butylbenzene	17.38	105	139428	0.364	ppbv	97
69) p-Isopropyltoluene	17.73	119	105560	0.338	ppbv	95
70) n-Butylbenzene	18.64	91	124857m	0.368	ppbv	
71) 2-Chlorotoluene	15.54	91	89980m	0.378	ppbv	
72) 4-Ethyltoluene	15.92	105	91707m	0.351	ppbv	
73) 1,3,5-Trimethylbenzene	16.08	105	84828	0.328	ppbv	91
74) 1,2,4-Trimethylbenzene	16.84	105	107288m	0.397	ppbv	
75) 1,3-Dichlorobenzene	17.08	146	67070	0.414	ppbv	97
76) 1,4-Dichlorobenzene	17.22	146	66316m	0.419	ppbv	
77) 1,2-Dichlorobenzene	17.90	146	60502	0.381	ppbv	96
78) Hexachloro-1,3-Butadiene	23.47	225	53229m	0.405	ppbv	
79) Naphthalene	22.31	128	50575m	0.256	ppbv	
80) Naphthalene, 2-methyl-	25.06	142	9489	0.166	ppbv	97
81) 1,2,4-Trichlorobenzene	22.03	180	46417m	0.360	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 49 Resp: 1000376

Ion Ratio Lower Upper

49 100

128 41.5 20.6 61.8

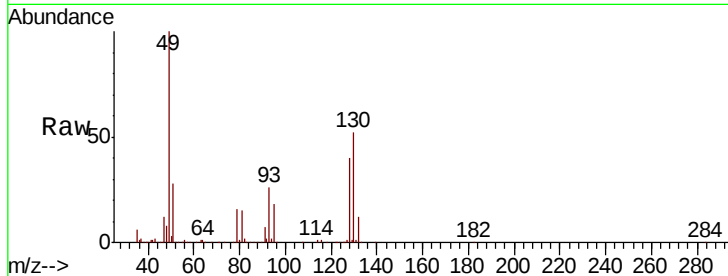
130 53.4 26.2 78.5

Manual Integrations

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.69

600000

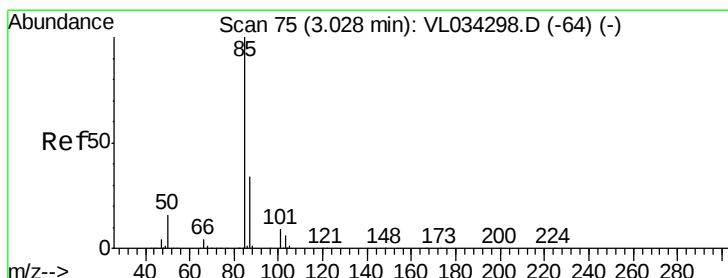
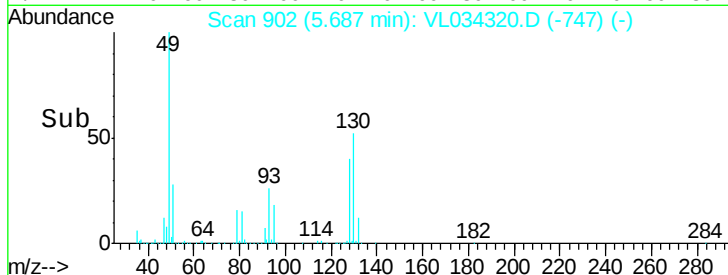
400000

200000

0

5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.471 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL034320.D

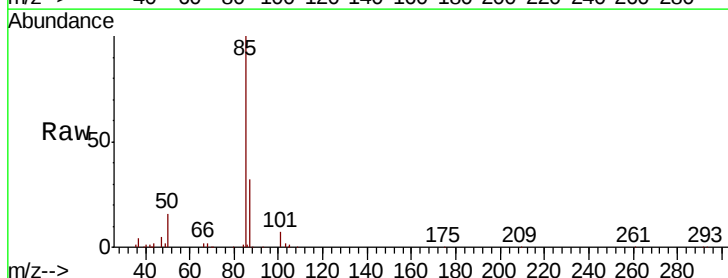
Acq: 17 Oct 2019 17:23

Tgt Ion: 85 Resp: 81179

Ion Ratio Lower Upper

85 100

87 32.0 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.03

80000

60000

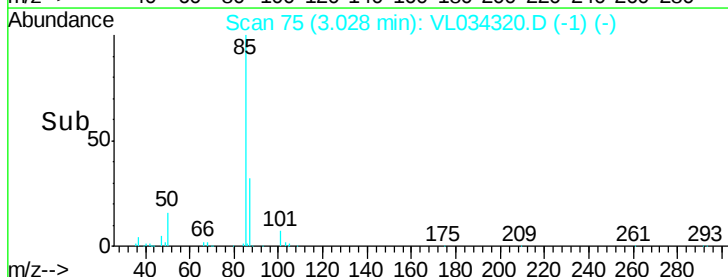
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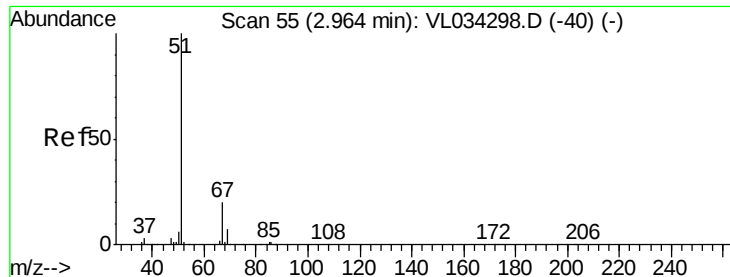
20000

0

3.00 3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.442 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 51 Resp: 51839

Ion Ratio Lower Upper

51 100

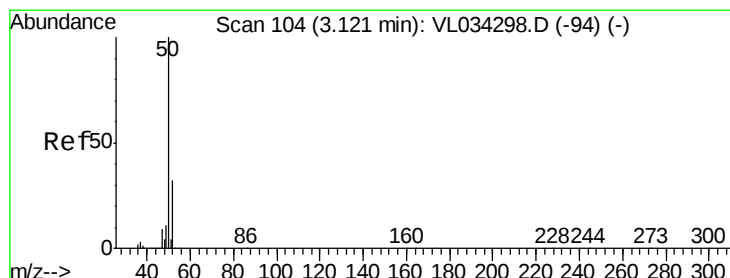
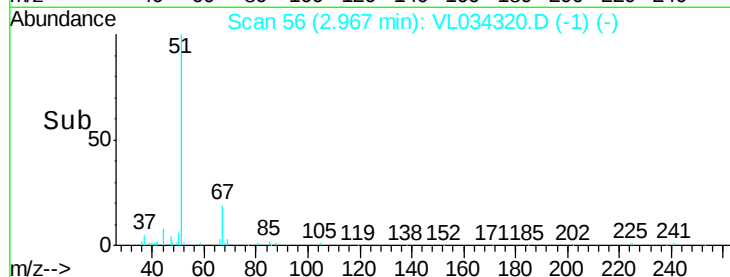
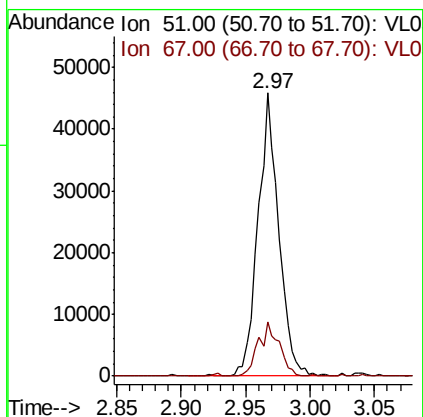
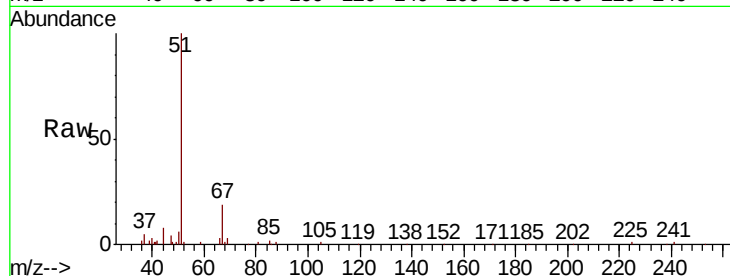
67 19.3 15.8 23.8

Manual Integrations

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10/22/2019 2:54:48 PM



#4

Chloromethane

Concen: 0.442 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL034320.D

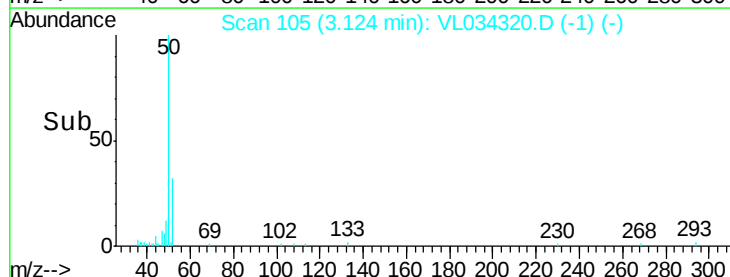
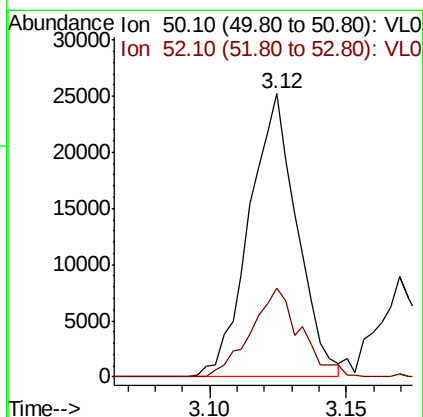
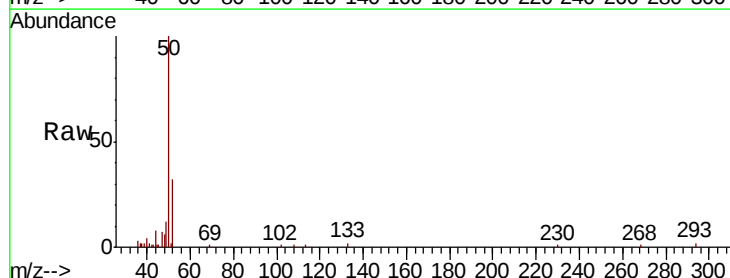
Acq: 17 Oct 2019 17:23

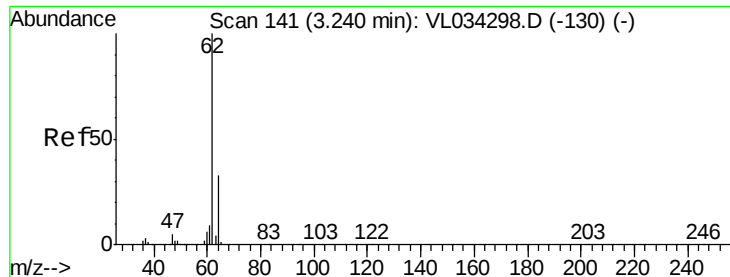
Tgt Ion: 50 Resp: 30634

Ion Ratio Lower Upper

50 100

52 31.5 25.4 38.2





#5

Vinyl Chloride

Concen: 0.428 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 62 Resp: 28332

Ion Ratio Lower Upper

62 100

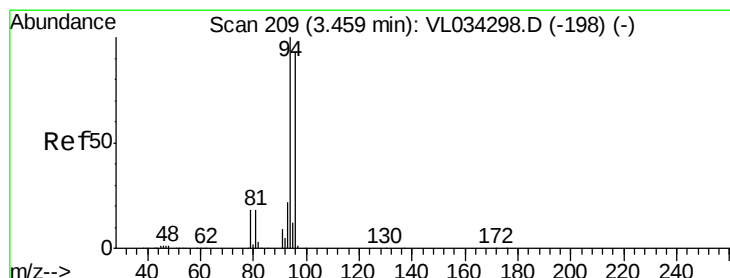
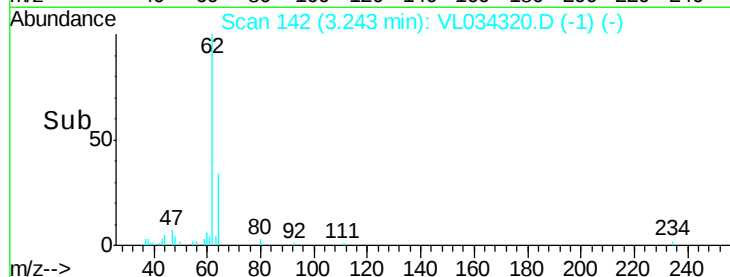
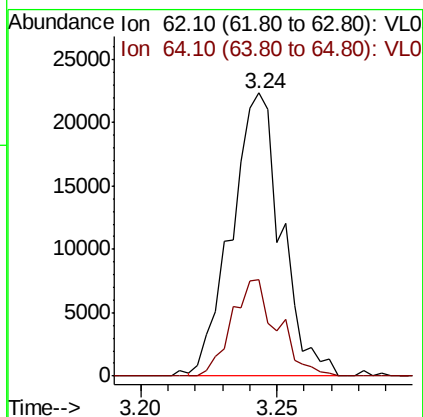
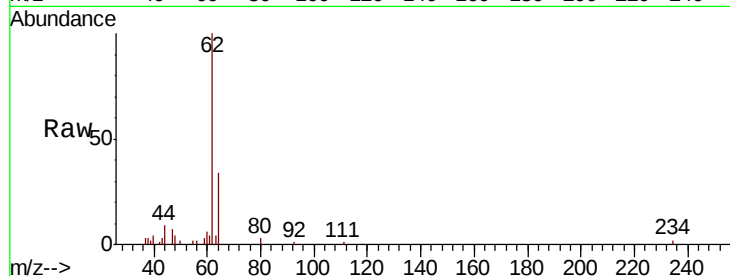
64 34.0 26.0 39.0

Manual Integrations

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#6

Bromomethane

Concen: 0.432 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034320.D

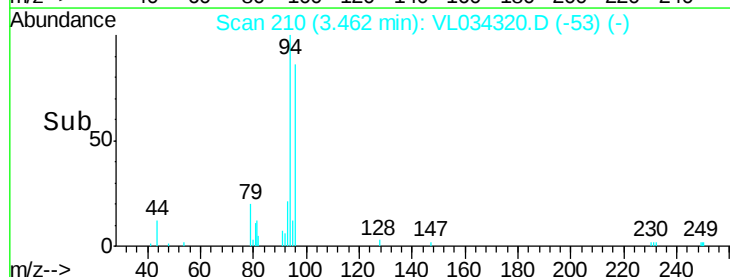
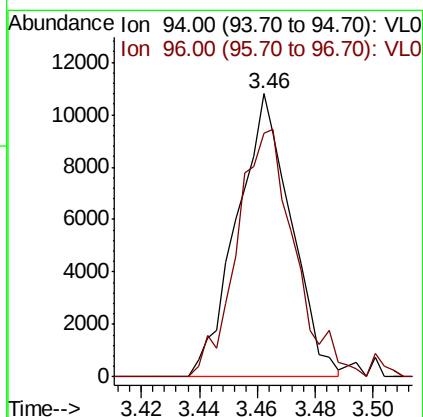
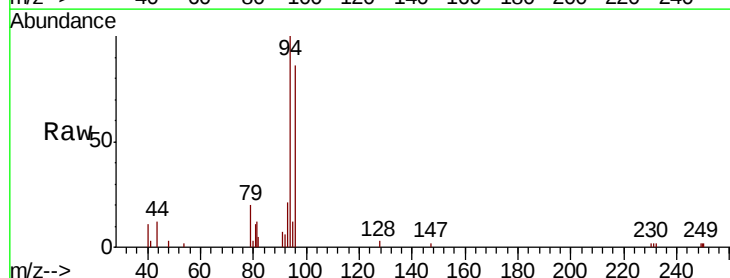
Acq: 17 Oct 2019 17:23

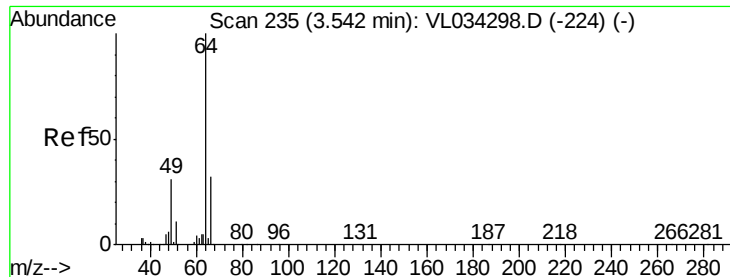
Tgt Ion: 94 Resp: 13985

Ion Ratio Lower Upper

94 100

96 86.0 74.6 112.0





#7

Chloroethane

Concen: 0.449 ppbv m

RT: 3.55 min Scan# 237

Delta R.T. 0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 64 Resp: 10459

Ion Ratio Lower Upper

64 100

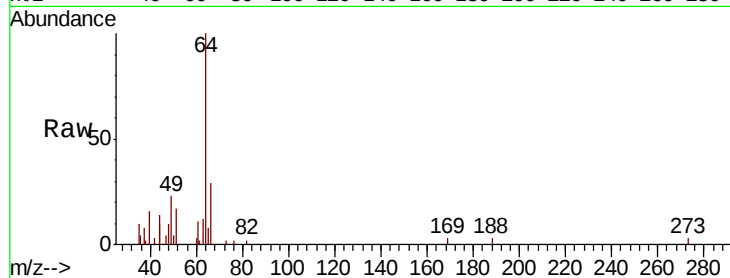
66 29.3 25.4 38.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

10000

8000

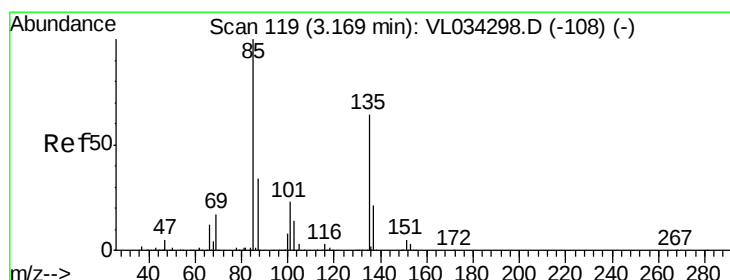
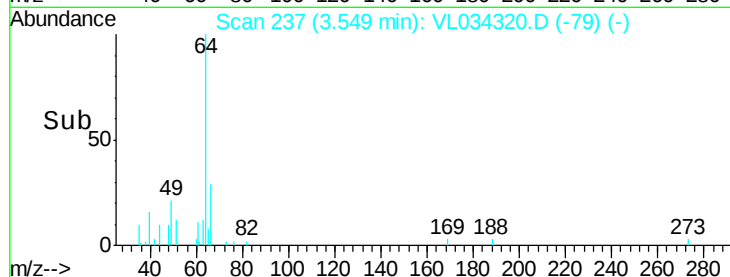
6000

4000

2000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 0.458 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.00 min

Lab File: VL034320.D

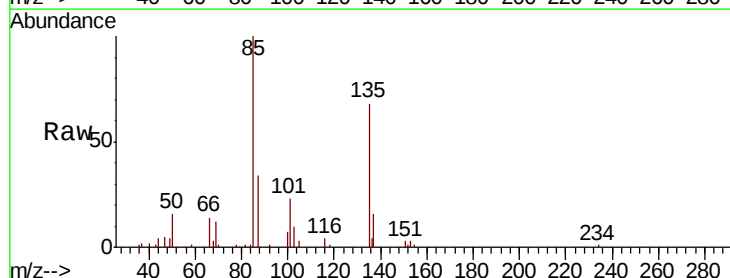
Acq: 17 Oct 2019 17:23

Tgt Ion: 85 Resp: 68457

Ion Ratio Lower Upper

85 100

135 61.6 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.17

60000

50000

40000

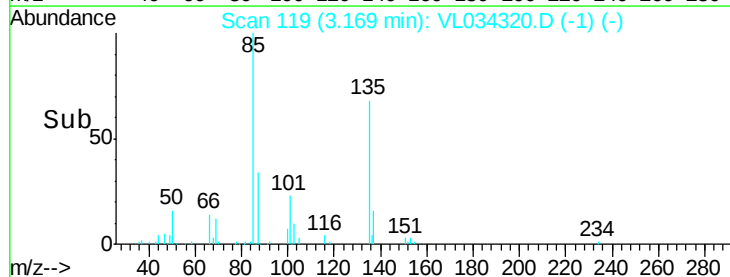
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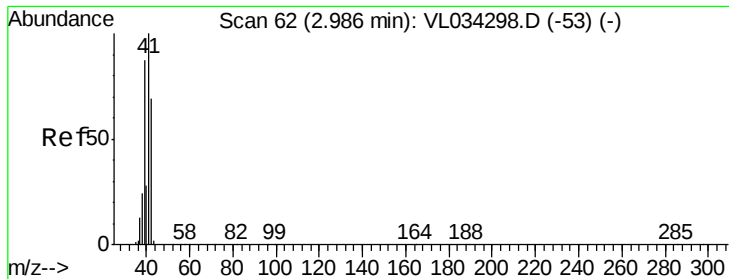
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Time-->





#9

Propene

Concen: 0.382 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 41 Resp: 19868

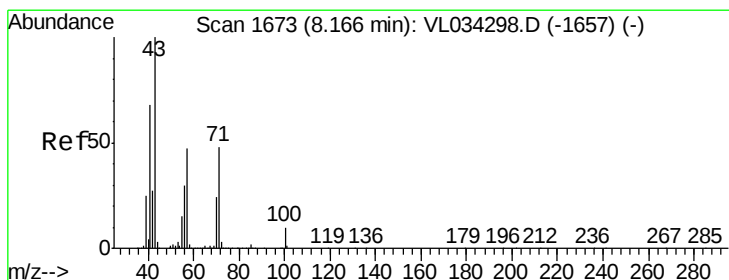
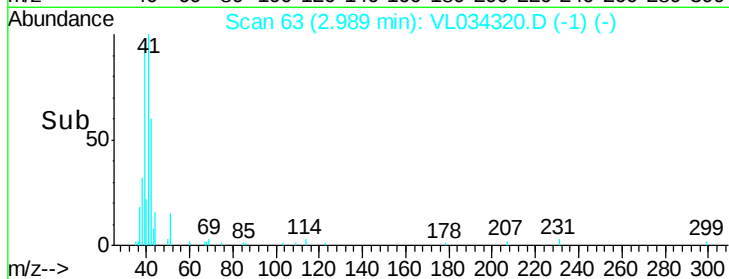
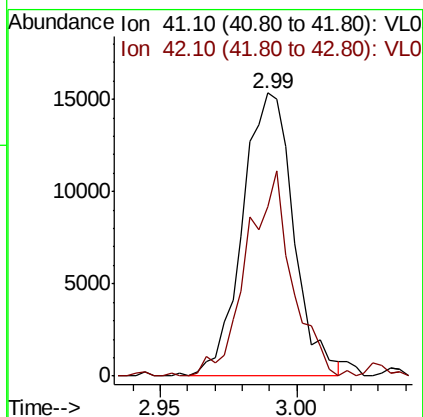
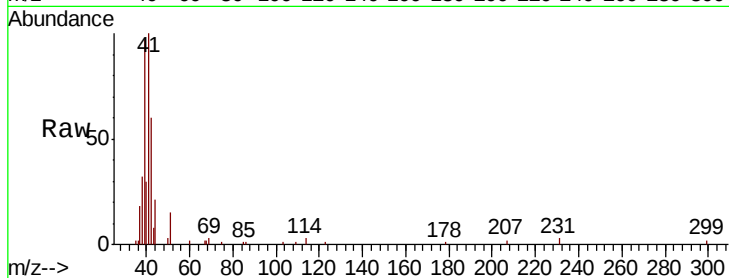
Ion Ratio Lower Upper

41 100

42 65.1 53.9 80.9

Manual Integrations
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10/22/2019 2:54:48 PM



#10

Heptane

Concen: 0.348 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VL034320.D

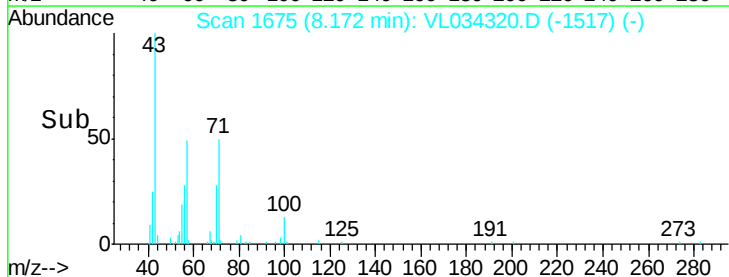
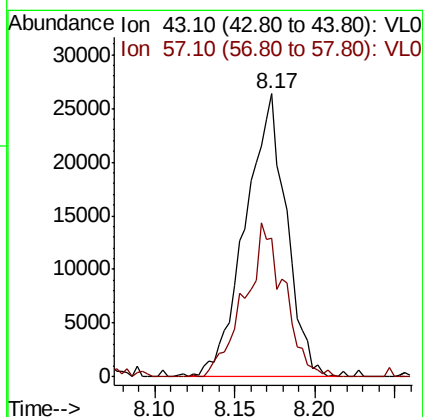
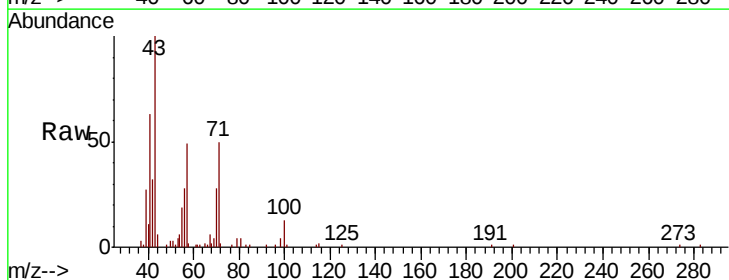
Acq: 17 Oct 2019 17:23

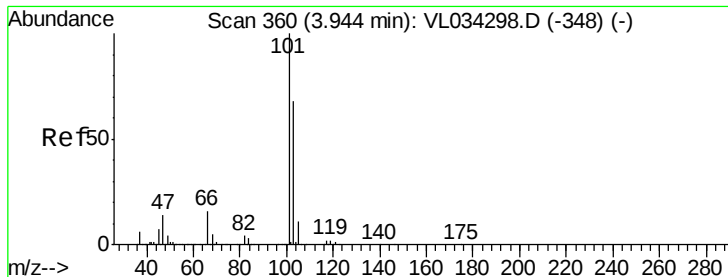
Tgt Ion: 43 Resp: 46438

Ion Ratio Lower Upper

43 100

57 52.8 39.5 59.3





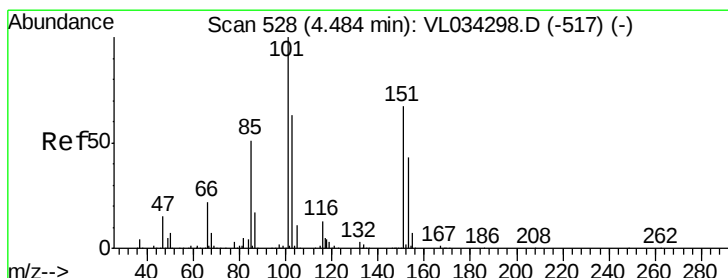
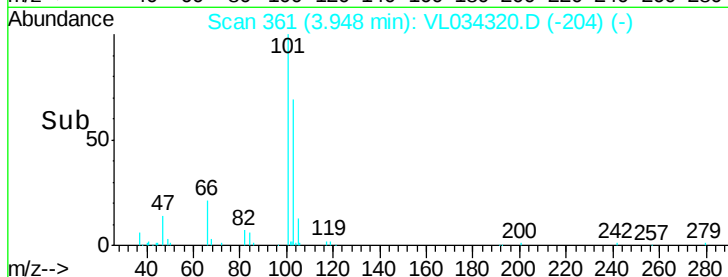
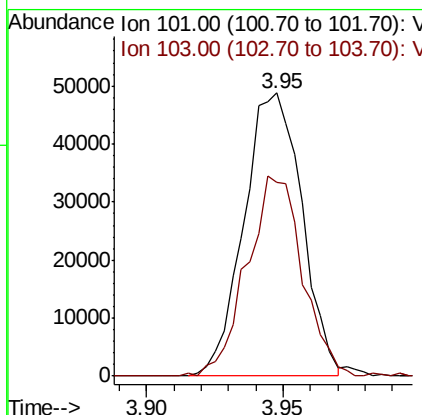
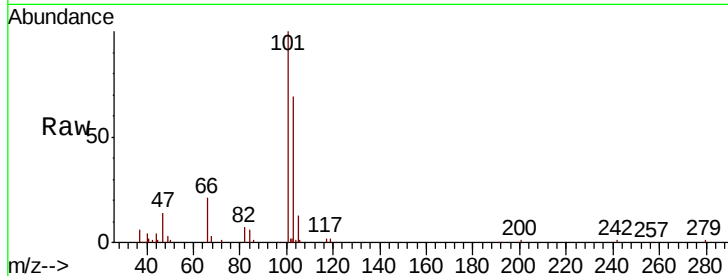
#11
 Trichlorofluoromethane
 Concen: 0.440 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:101 Resp: 71994
 Ion Ratio Lower Upper
 101 100
 103 67.8 54.5 81.7

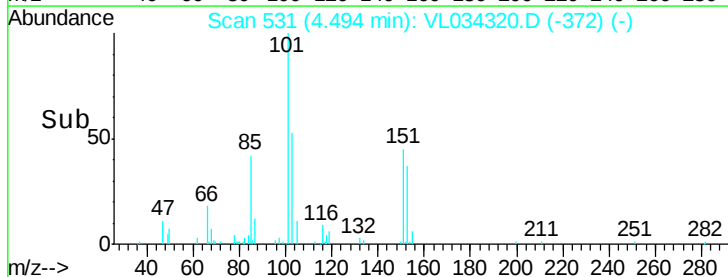
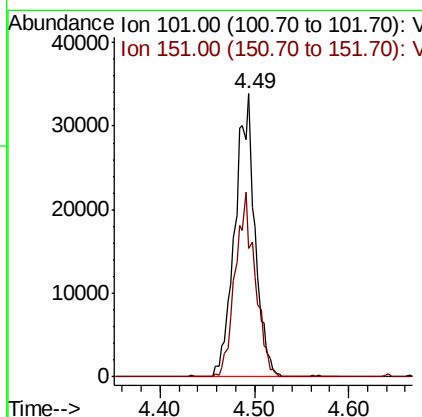
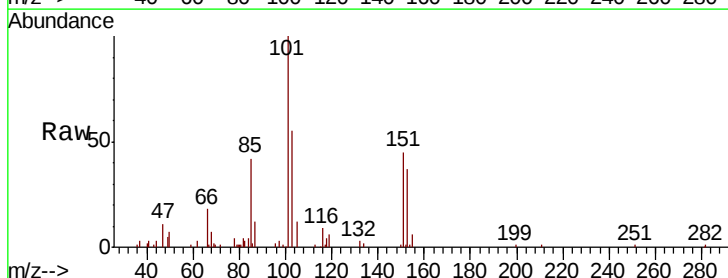
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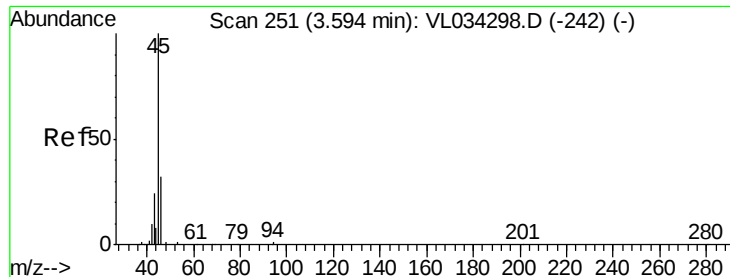
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.467 ppbv m
 RT: 4.49 min Scan# 531
 Delta R.T. 0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion:101 Resp: 50053
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.4 86.2#





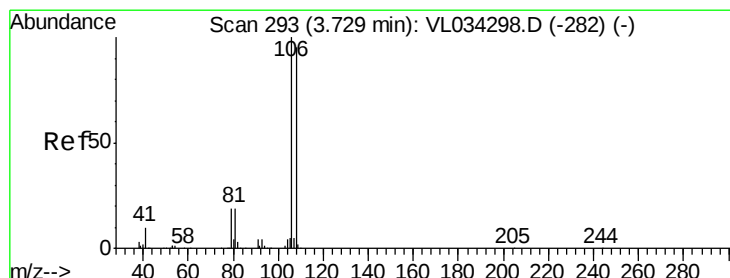
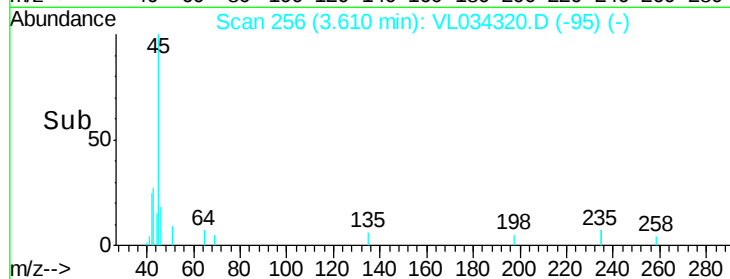
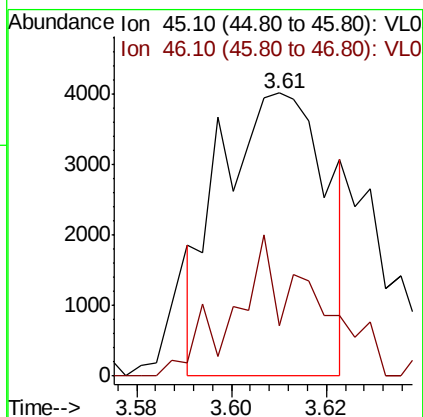
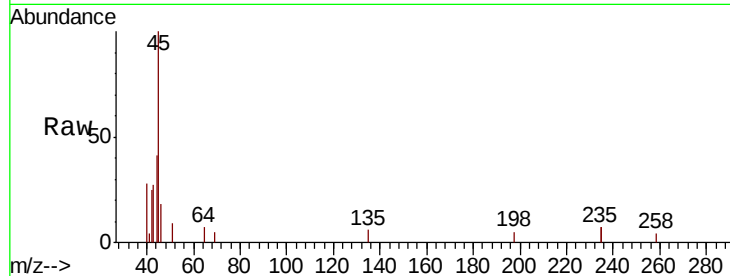
#13
Ethanol
Concen: 0.538 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. 0.02 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 45 Resp: 6264
Ion Ratio Lower Upper
45 100
46 38.4 15.8 63.2

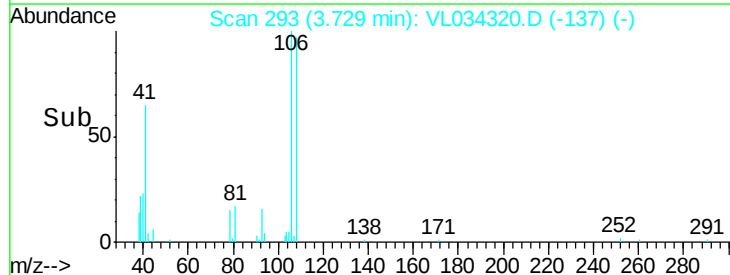
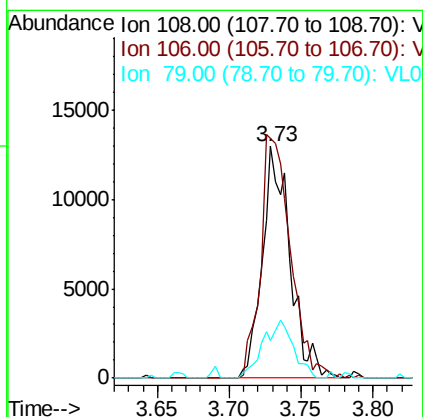
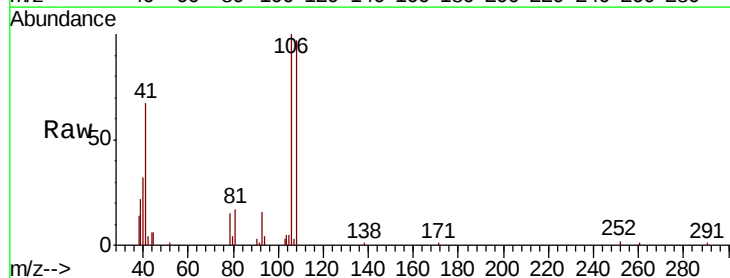
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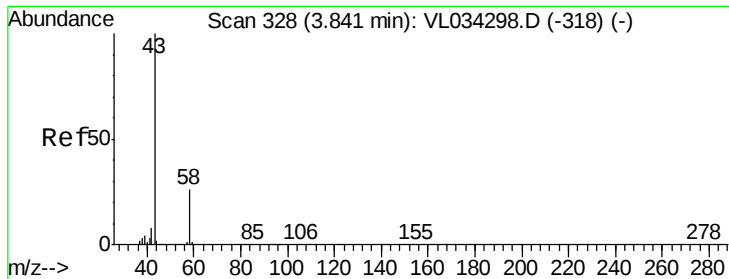
MMDadoda
10/22/2019 2:54:48 PM



#14
Bromoethene
Concen: 0.412 ppbv m
RT: 3.73 min Scan# 293
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion: 108 Resp: 17395
Ion Ratio Lower Upper
108 100
106 0.0 84.8 127.2#
79 27.9 17.0 25.4#





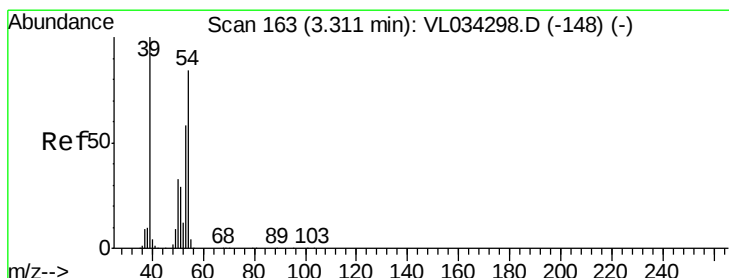
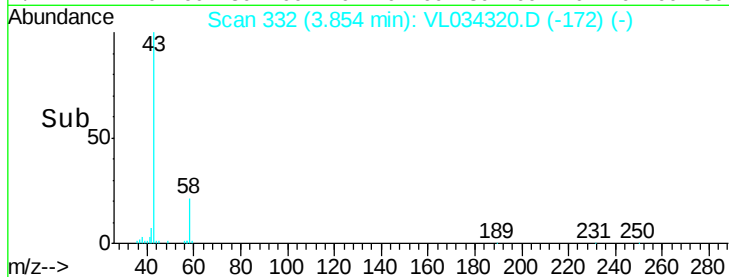
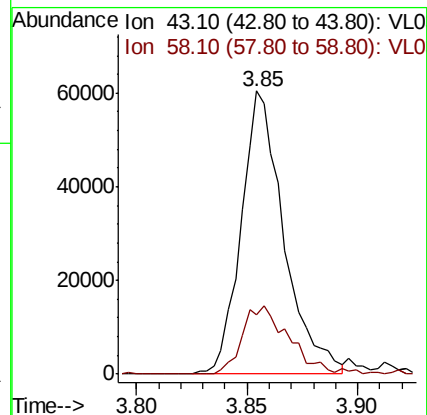
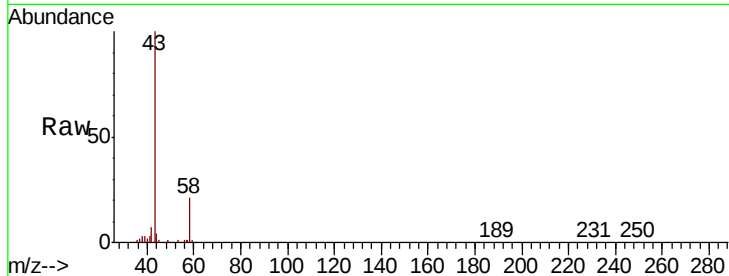
#15
Acetone
Concen: 0.569 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 43 Resp: 81445
Ion Ratio Lower Upper
43 100
58 27.3 20.4 30.6

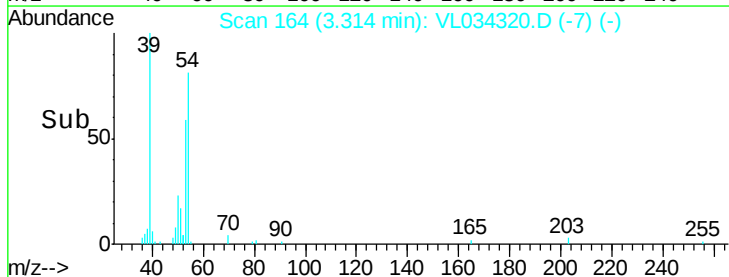
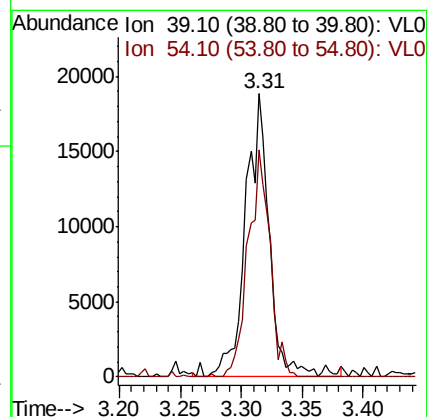
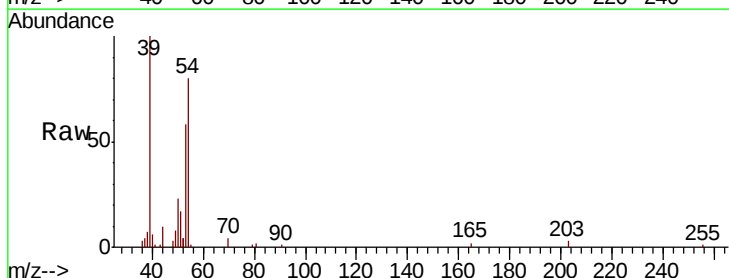
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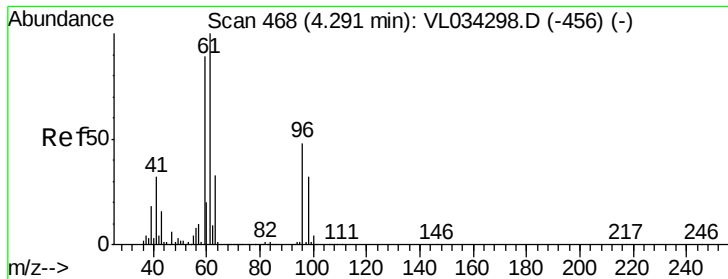
MMDadoda
10/22/2019 2:54:48 PM



#16
1,3-Butadiene
Concen: 0.439 ppbv m
RT: 3.31 min Scan# 164
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion: 39 Resp: 25523
Ion Ratio Lower Upper
39 100
54 0.0 63.9 95.9#





#17

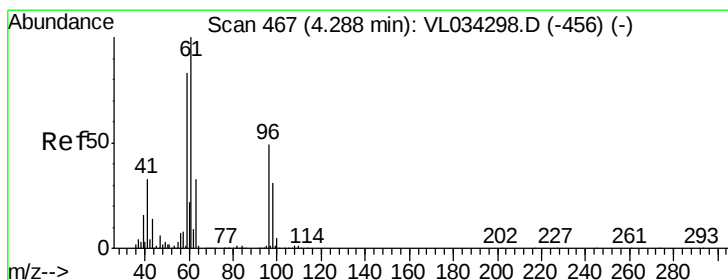
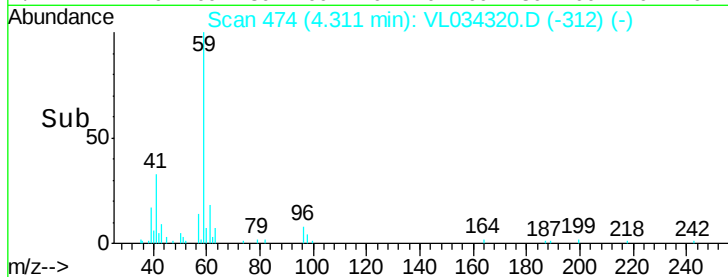
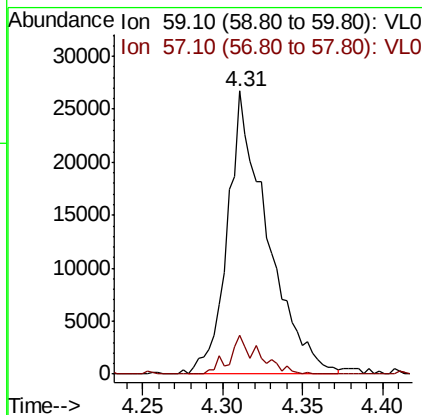
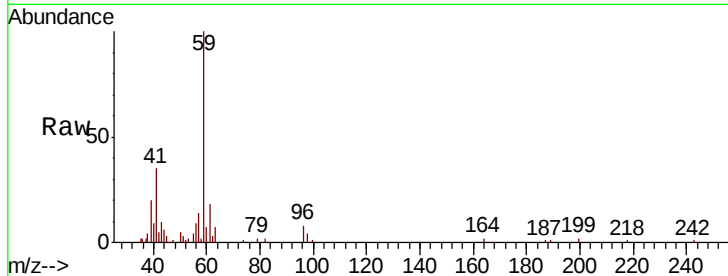
tert-Butyl alcohol
Concen: 0.501 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.02 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 59 Resp: 45748
Ion Ratio Lower Upper
59 100
57 10.0 8.8 13.2

Manual Integrations
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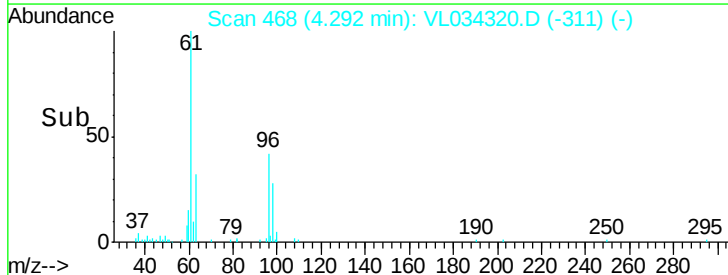
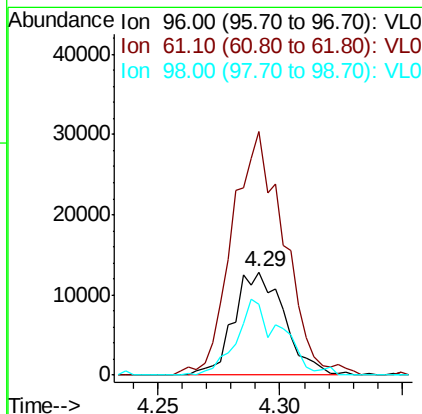
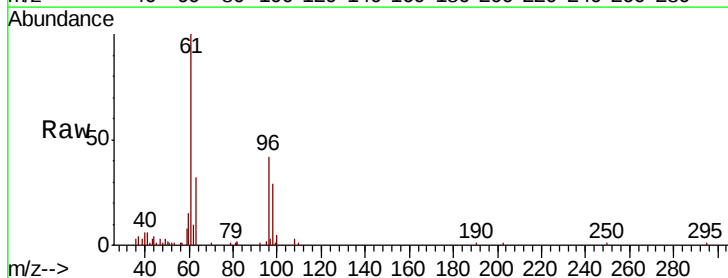
MMDadoda
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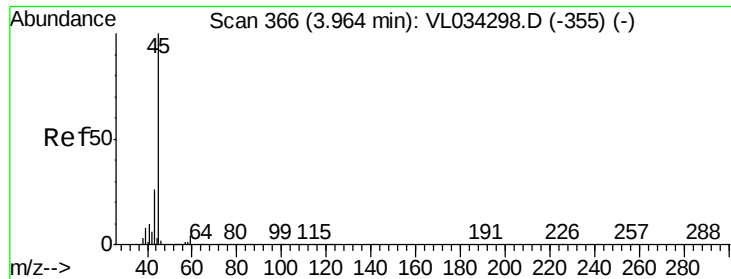


#18

1,1-Dichloroethene
Concen: 0.391 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion: 96 Resp: 18375
Ion Ratio Lower Upper
96 100
61 228.2 164.5 246.7
98 69.1 51.7 77.5





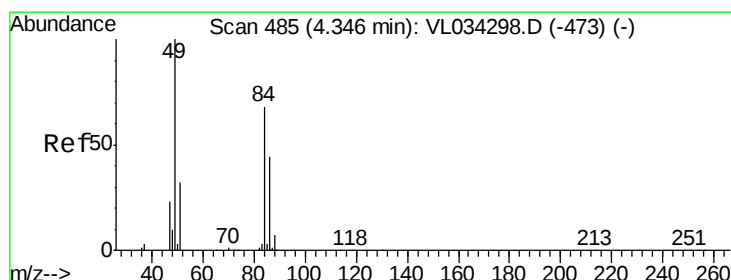
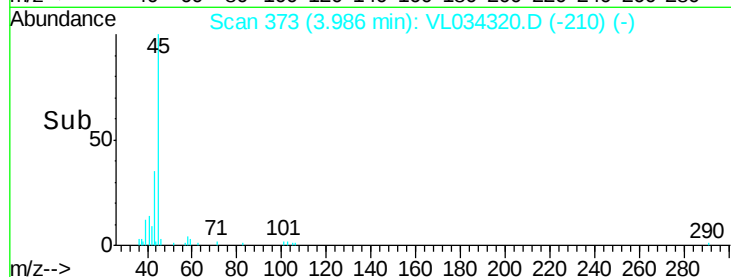
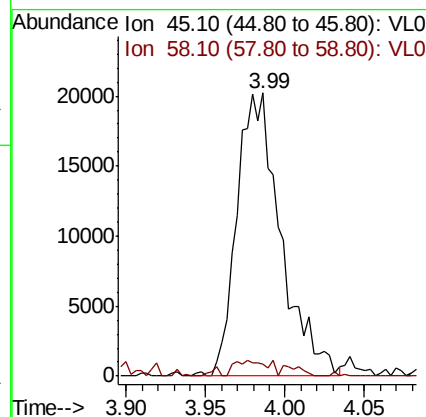
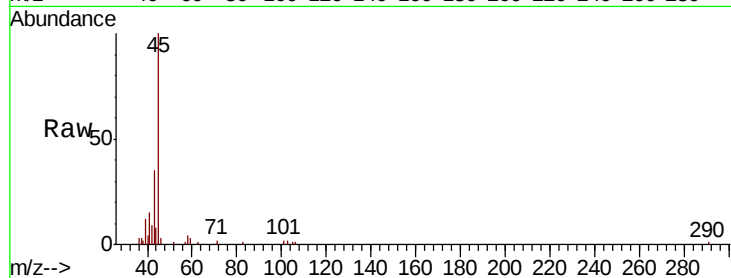
#19
Isopropyl Alcohol
Concen: 0.486 ppbv m
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
45	100		
58	6.6	1.4	2.2#

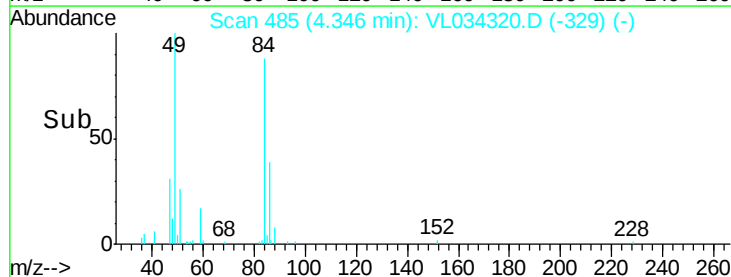
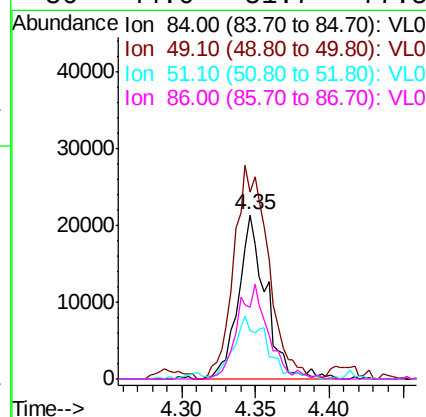
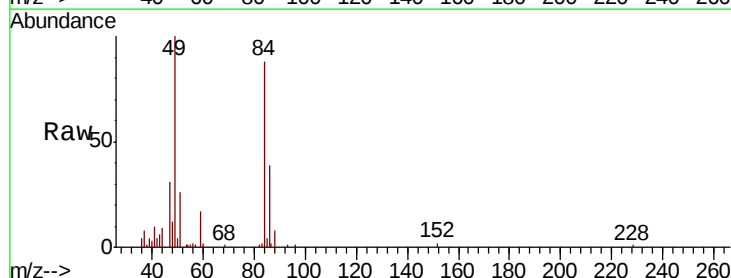
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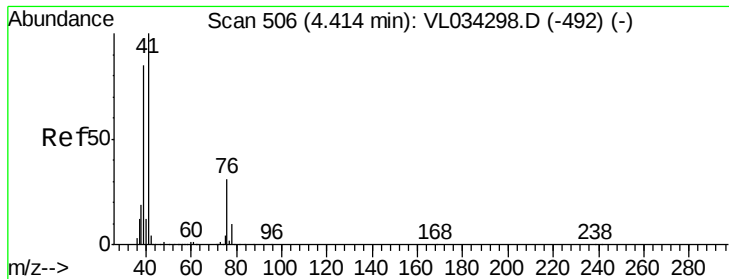
MMDadoda
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#20
Methylene Chloride
Concen: 0.543 ppbv m
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
84	100		
49	113.9	118.5	177.7#
51	29.8	38.8	58.2#
86	44.0	51.7	77.5#





#21

Allvl Chloride

Concen: 0.377 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

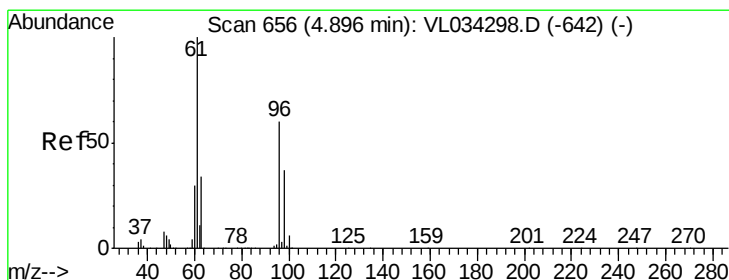
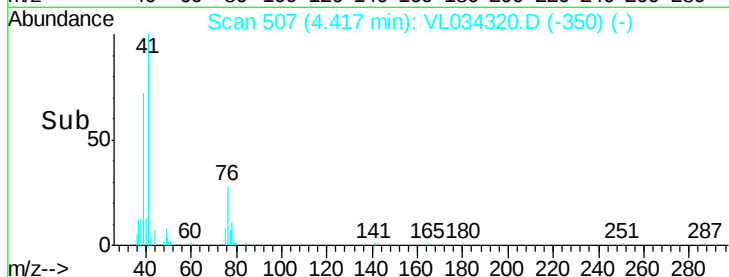
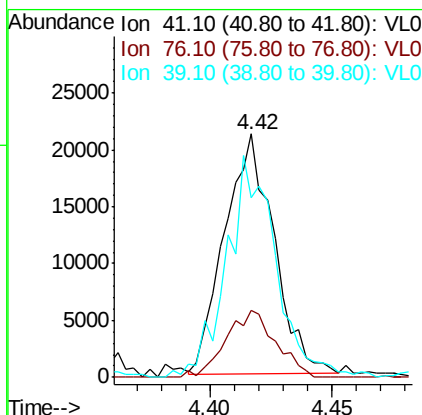
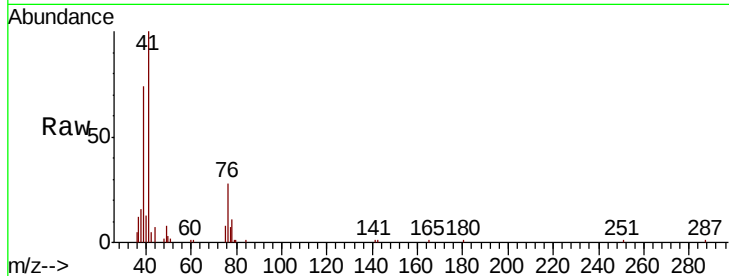
ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		29812		
76	28.0	22.8	34.2		
39	92.6	66.0	99.0		

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#22

trans-1,2-Dichloroethene

Concen: 0.414 ppbv m

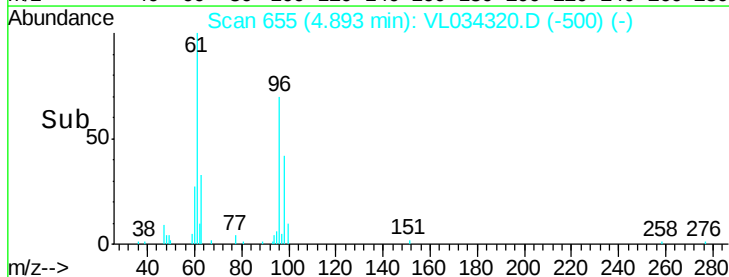
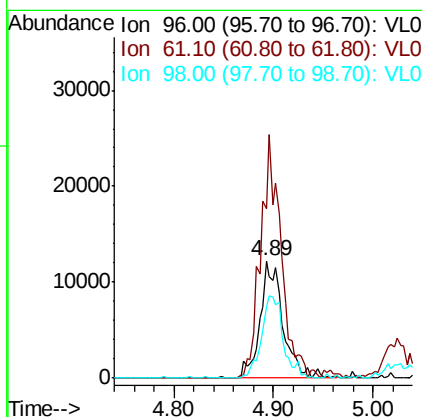
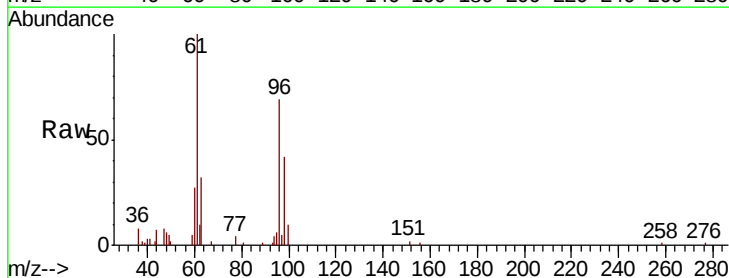
RT: 4.89 min Scan# 655

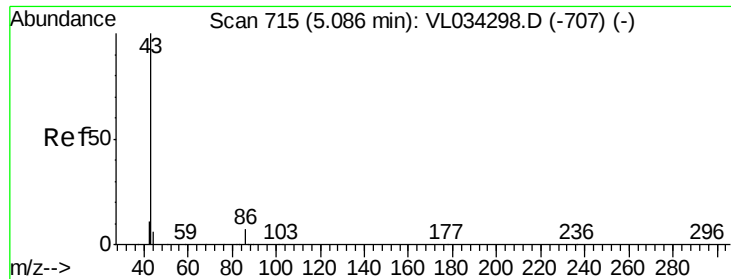
Delta R.T. -0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	100		19376		
61	144.1	133.8	200.6		
98	60.3	49.4	74.0		





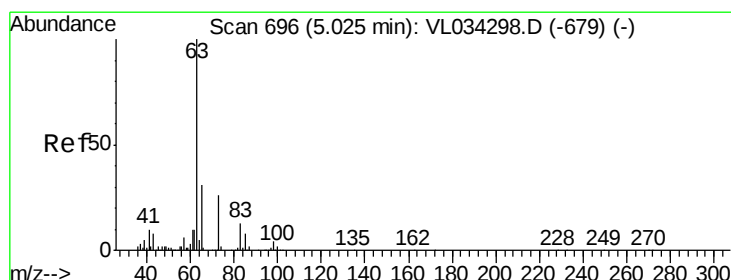
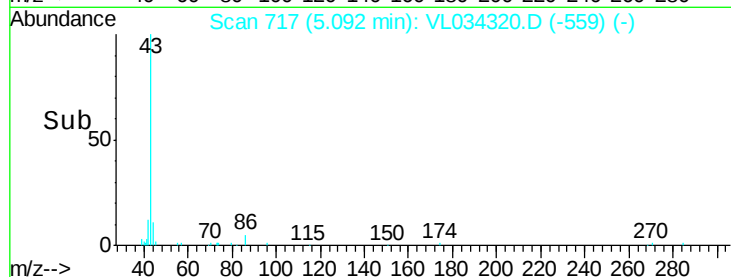
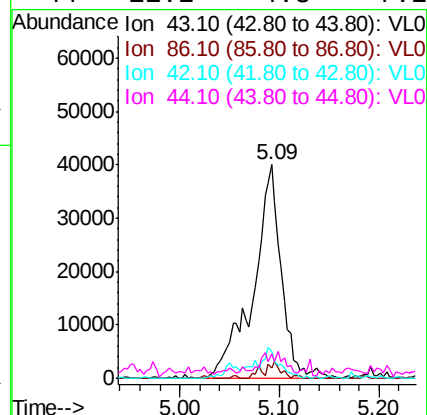
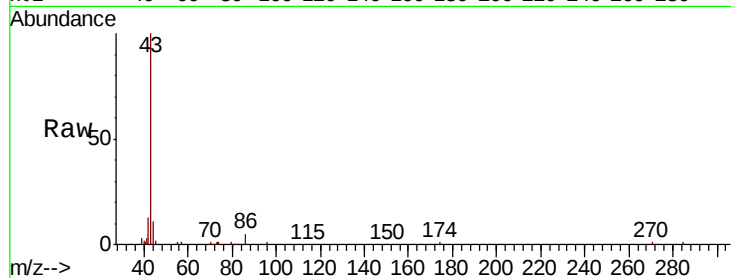
#23
 Vinyl Acetate
 Concen: 0.439 ppbv m
 RT: 5.09 min Scan# 717
 Delta R.T. 0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	4.9	5.0	7.4#	
42	12.6	8.6	13.0	
44	11.2	4.8	7.2#	

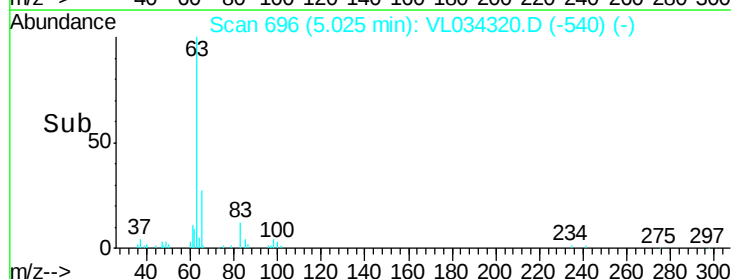
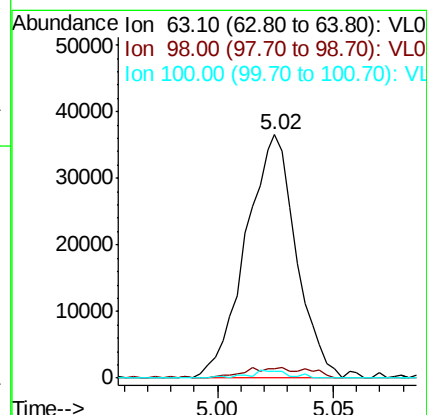
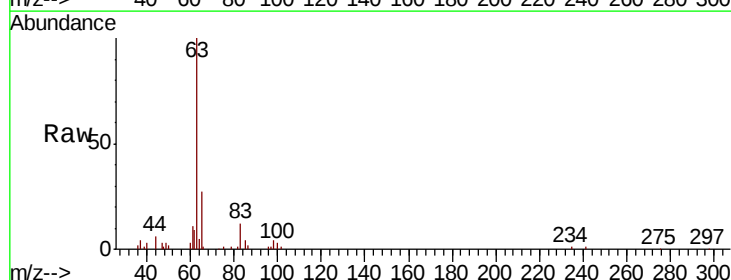
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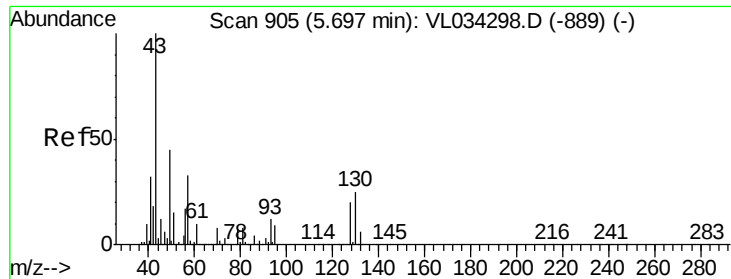
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 0.415 ppbv
 RT: 5.02 min Scan# 696
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.7	2.0	6.0	
100	2.6	1.1	3.5	





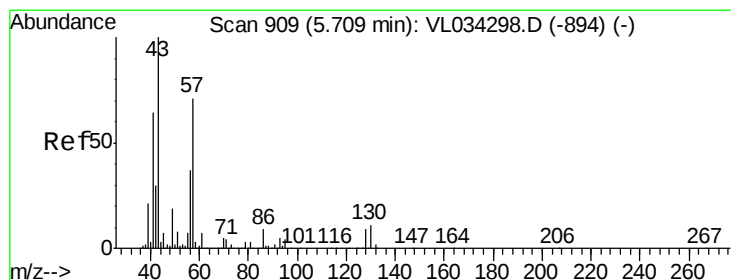
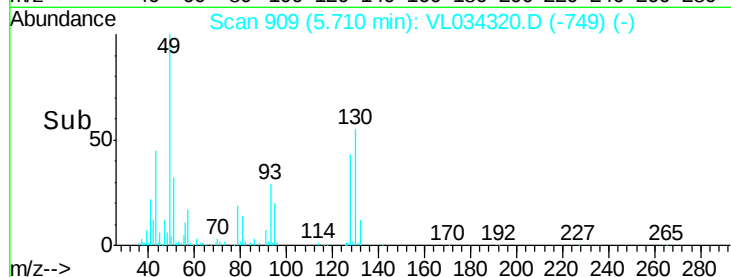
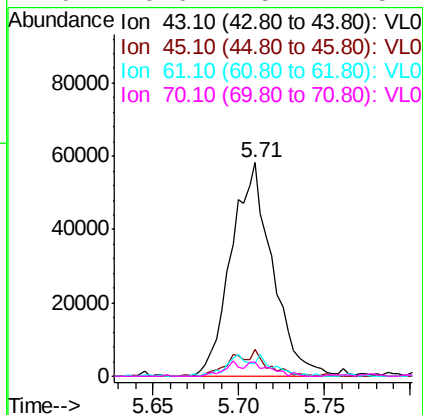
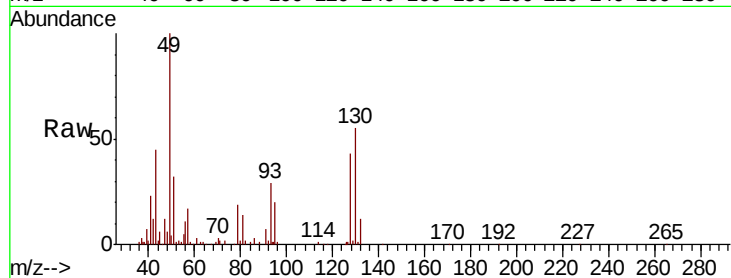
#25
Ethyl Acetate
Concen: 0.403 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	11.0	8.3	12.5		
61	10.1	7.7	11.5		
70	6.6	5.4	8.2		

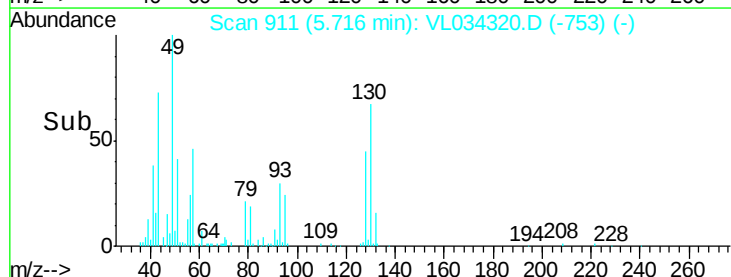
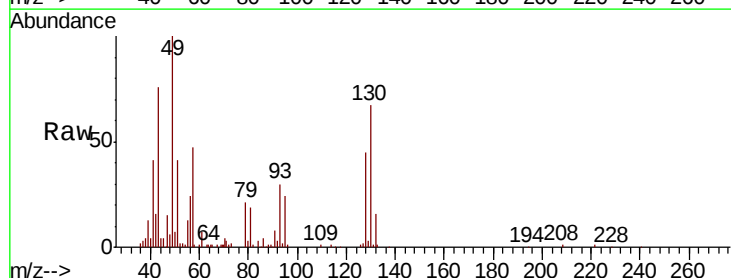
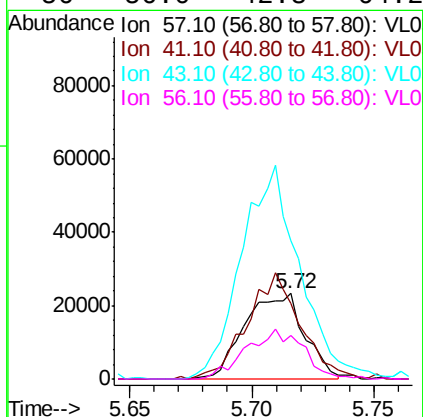
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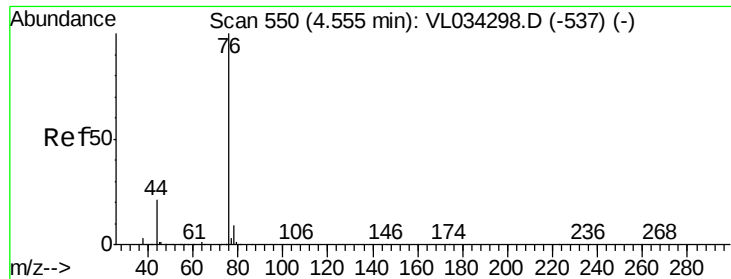
MMDadoda
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#26
Hexane
Concen: 0.384 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	112.3	76.5	114.7		
43	247.8	188.5	282.7		
56	56.0	42.8	64.2		





#27

Carbon Disulfide

Concen: 0.368 ppbv m

RT: 4.56 min Scan# 551

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

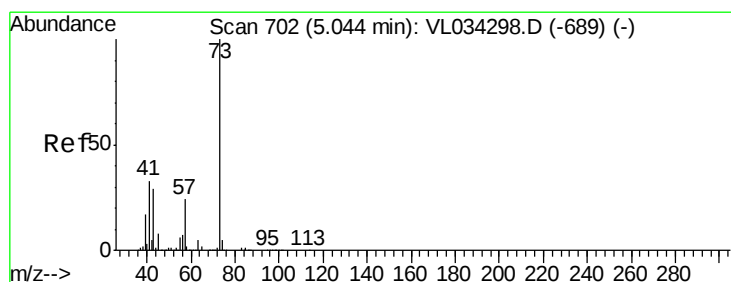
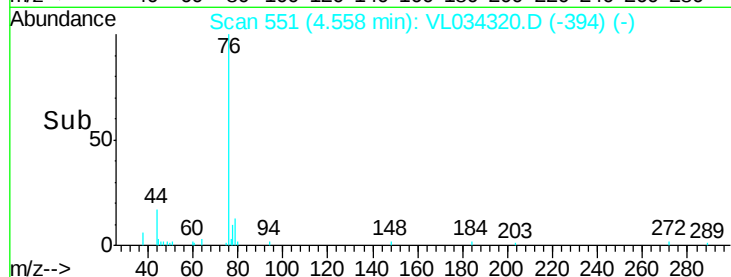
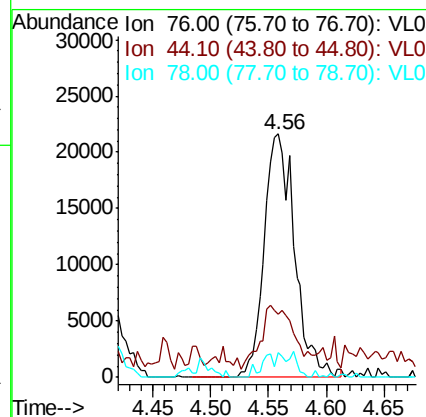
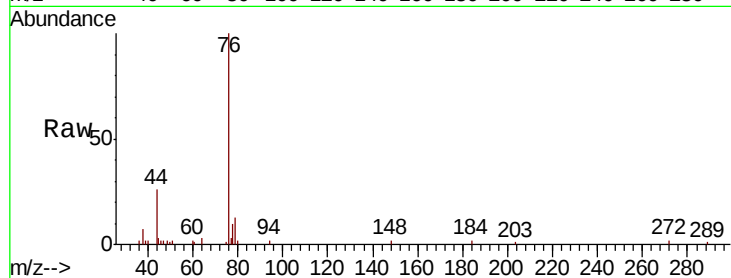
ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:	76	Resp:	39385
Ion Ratio	Lower	Upper	
76	100		
44	34.9	17.3	25.9#
78	0.0	7.8	11.6#

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.371 ppbv m

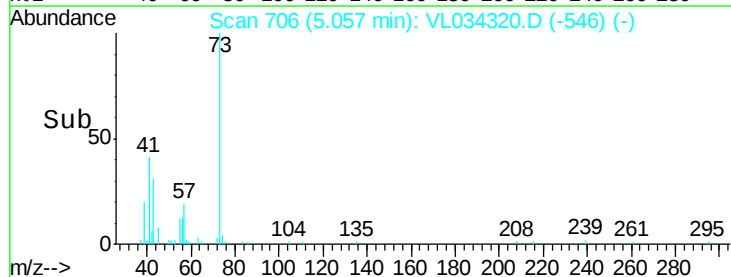
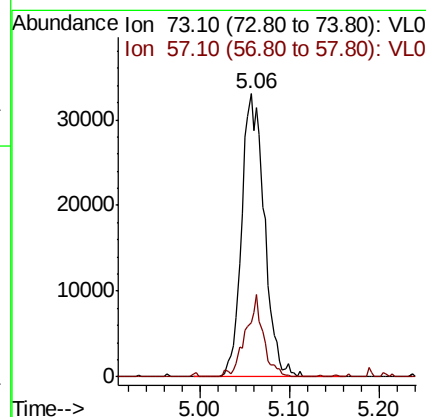
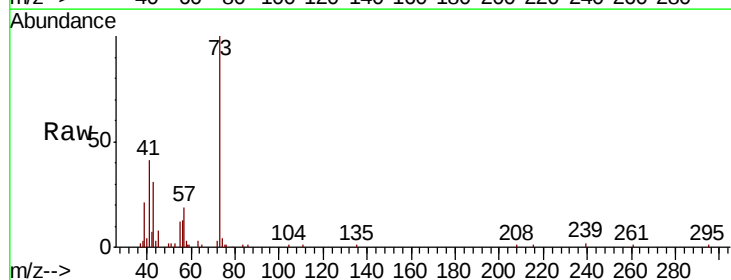
RT: 5.06 min Scan# 706

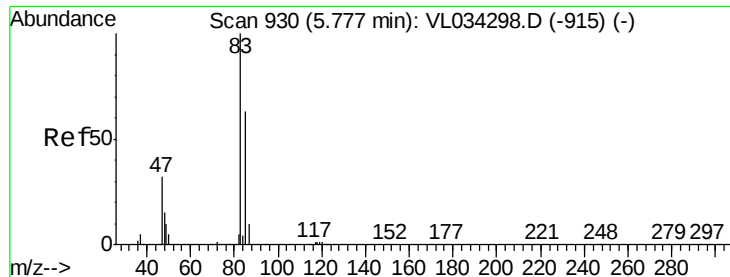
Delta R.T. 0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion:	73	Resp:	57763
Ion Ratio	Lower	Upper	
73	100		
57	0.0	19.2	28.8#





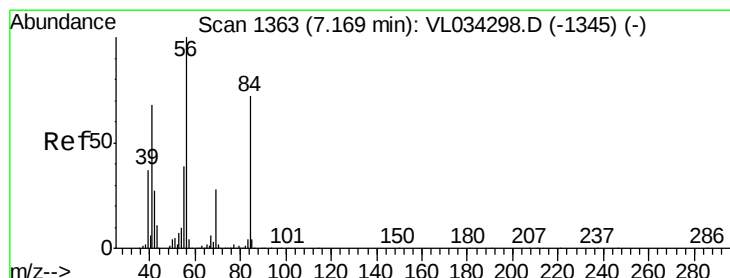
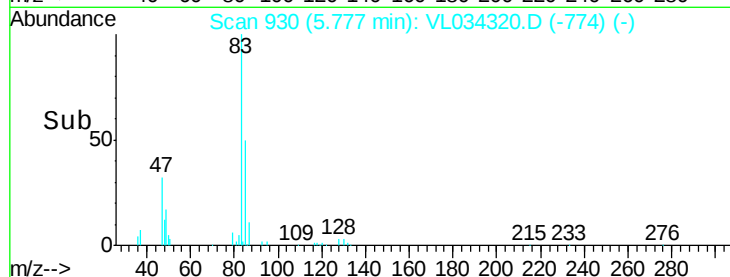
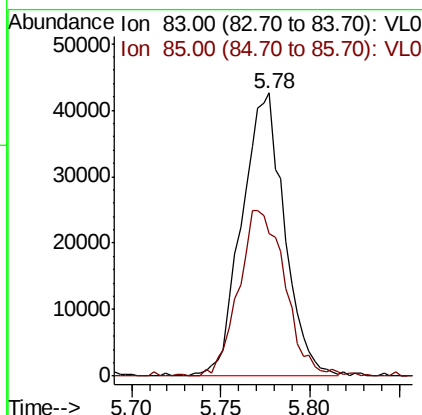
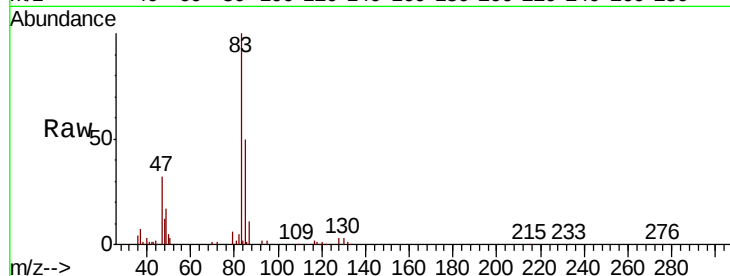
#29
Chloroform
Concen: 0.436 ppbv
RT: 5.78 min Scan# 930
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	83	Resp	71089
Ion Ratio	Lower	Upper	
83	100		
85	50.2	50.5	75.7#

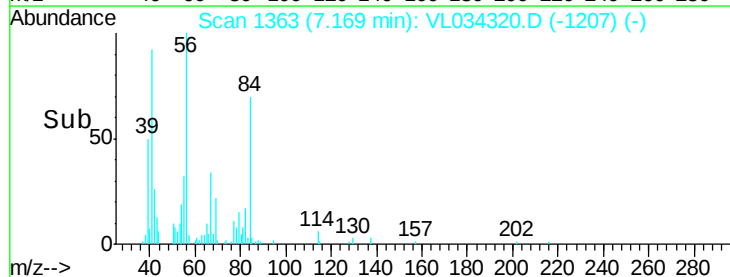
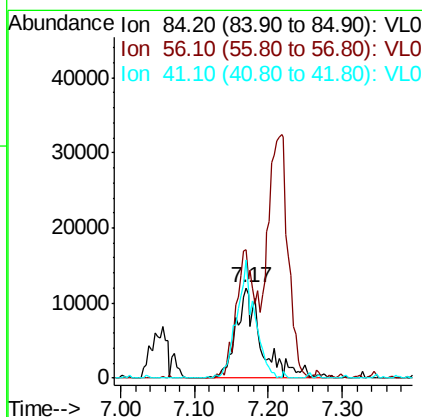
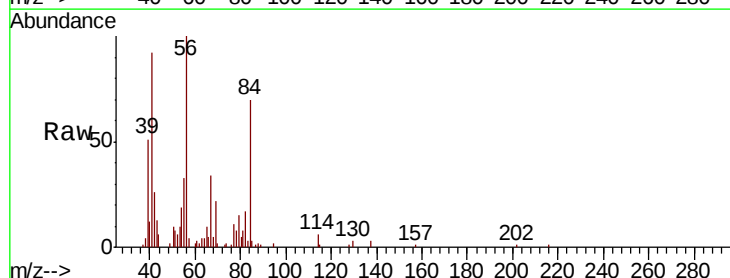
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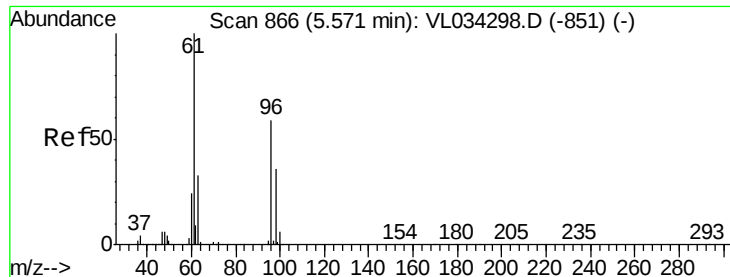
MMDadoda
10/22/2019 2:54:48 PM



#30
Cyclohexane
Concen: 0.377 ppbv m
RT: 7.17 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	84	Resp	28568
Ion Ratio	Lower	Upper	
84	100		
56	99.7	119.4	179.0#
41	93.6	78.7	118.1





#31

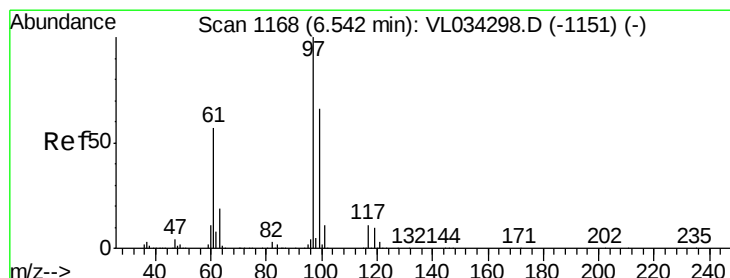
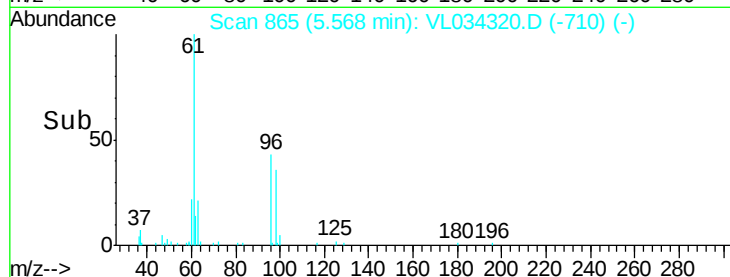
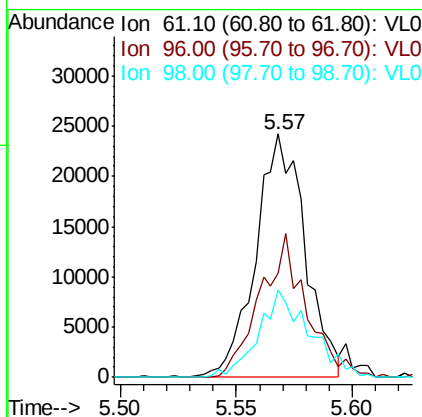
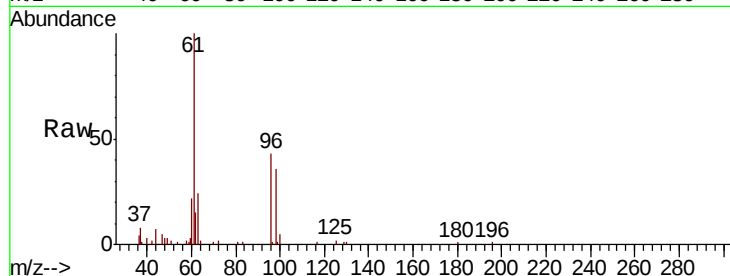
cis-1,2-Dichloroethene
 Concen: 0.343 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. -0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
61	100		
96	43.8	47.5	71.3#
98	36.2	28.8	43.2

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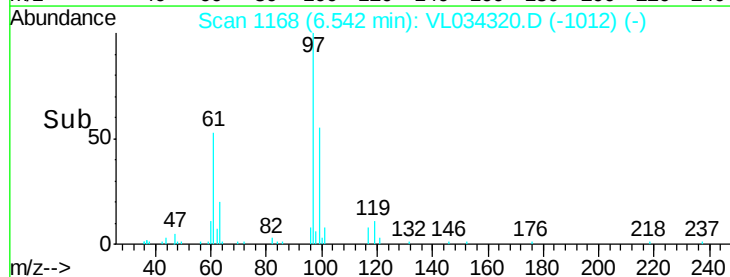
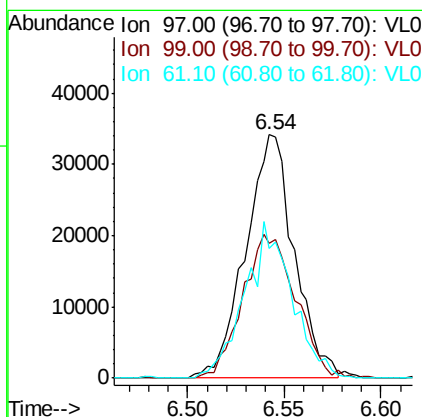
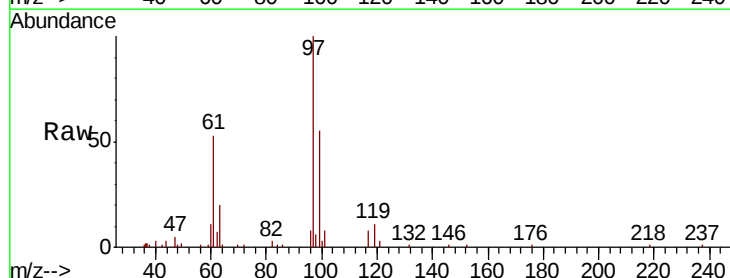
MMDadoda
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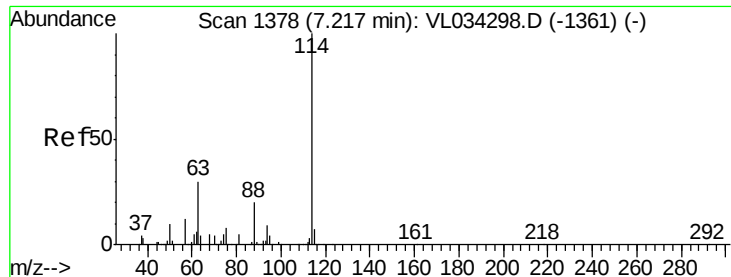


#32

1,1,1-Trichloroethane
 Concen: 0.378 ppbv
 RT: 6.54 min Scan# 1168
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.6	78.8
61	62.1	44.5	66.7





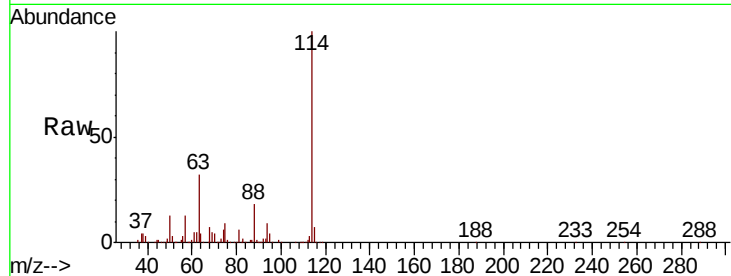
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

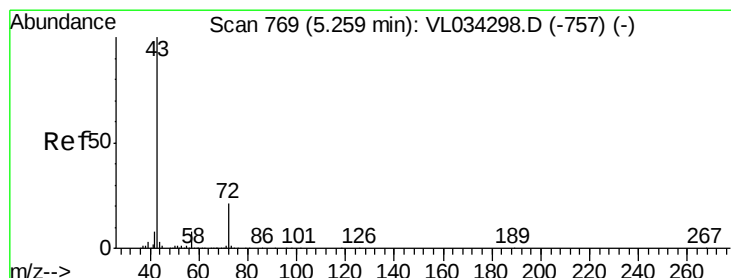
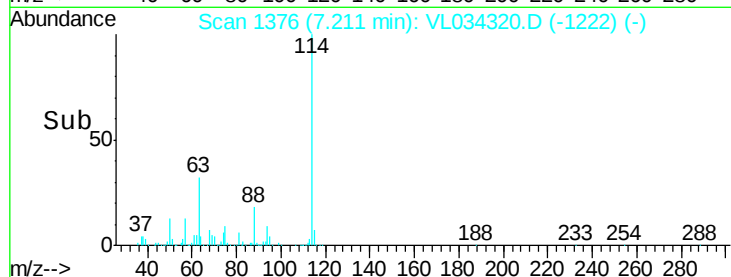
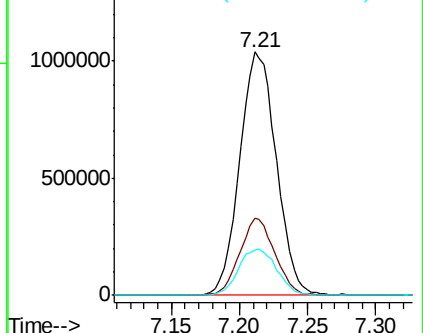
Tot Ion	Ratio	Lower	Upper
114	100		
63	30.4	25.2	37.8
88	19.9	16.0	24.0

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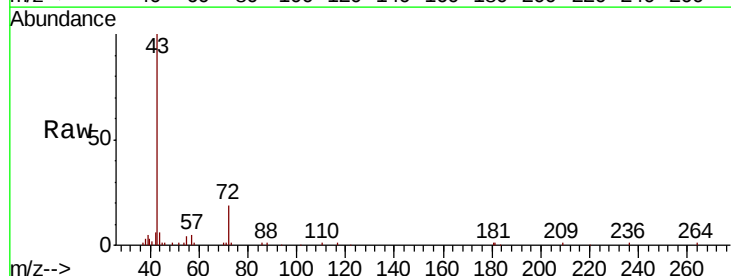


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

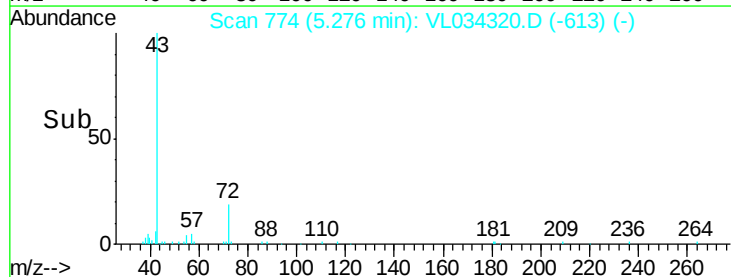
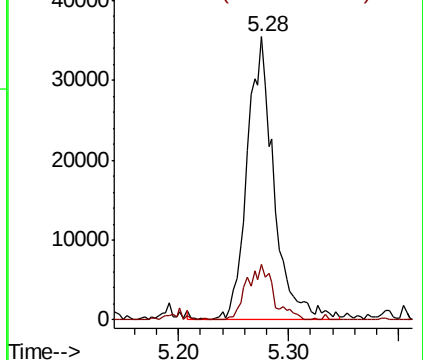


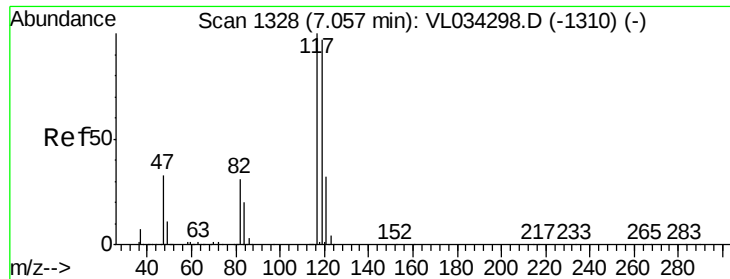
#34
 2-Butanone
 Concen: 0.379 ppbv m
 RT: 5.28 min Scan# 774
 Delta R.T. 0.02 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.3	24.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





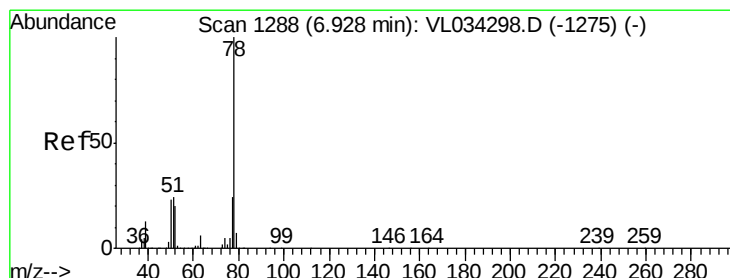
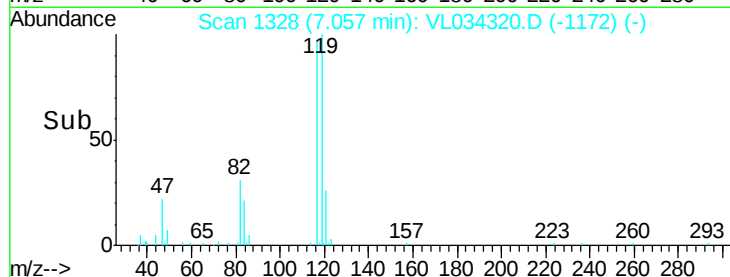
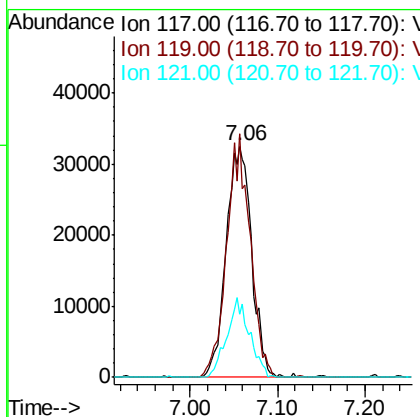
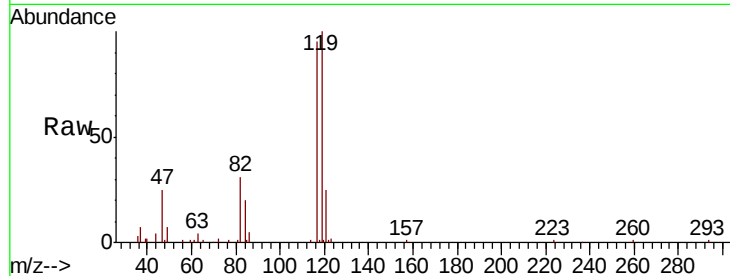
#35
Carbon Tetrachloride
Concen: 0.391 ppbv m
RT: 7.06 min Scan# 1328
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
117	100		
119	105.2	77.3	115.9
121	26.5	25.5	38.3

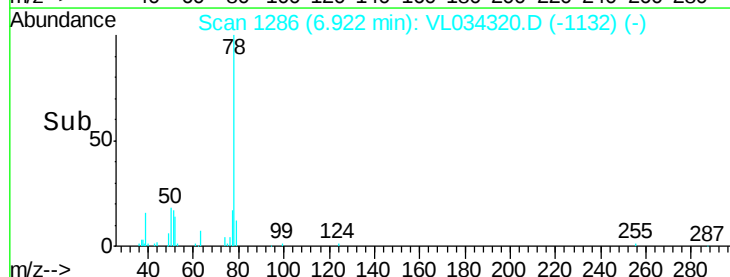
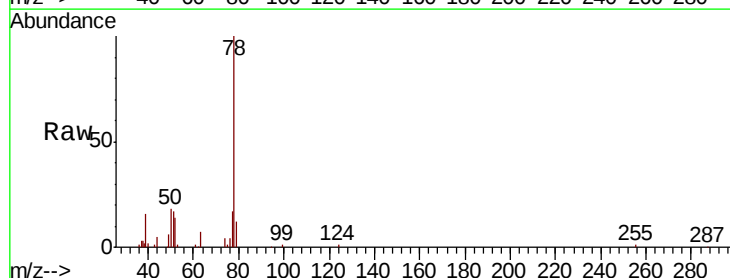
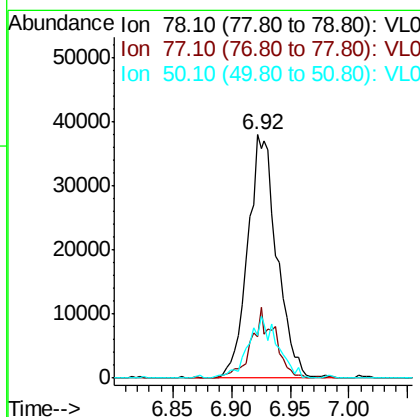
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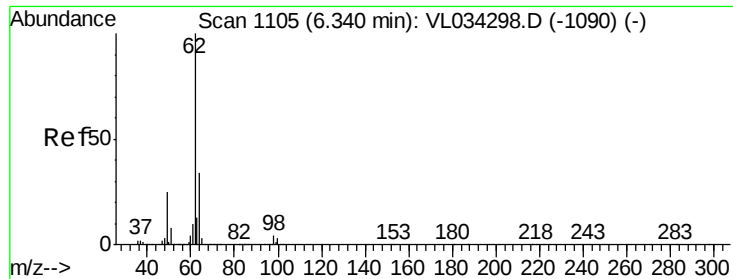
MMDadoda
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#36
Benzene
Concen: 0.358 ppbv m
RT: 6.92 min Scan# 1286
Delta R.T. -0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.2	19.0	28.4#
50	17.7	18.6	27.8#





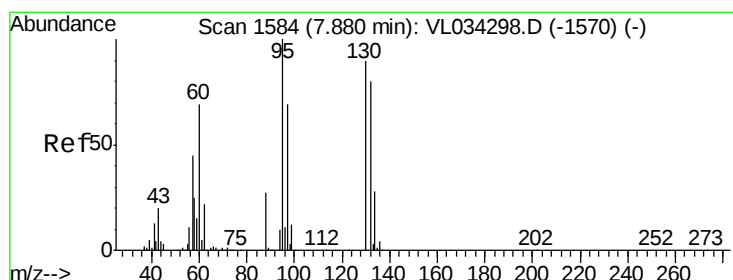
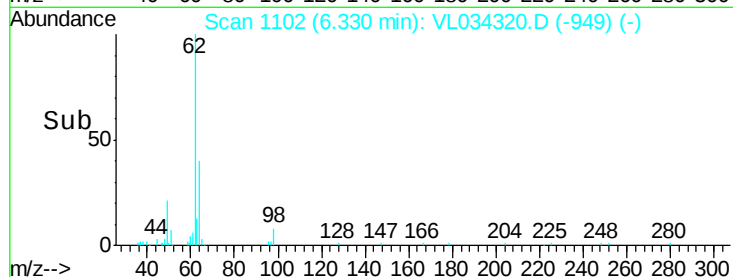
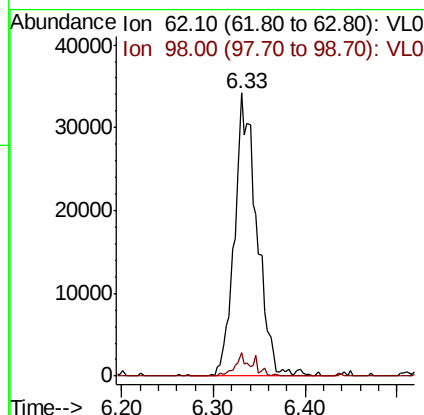
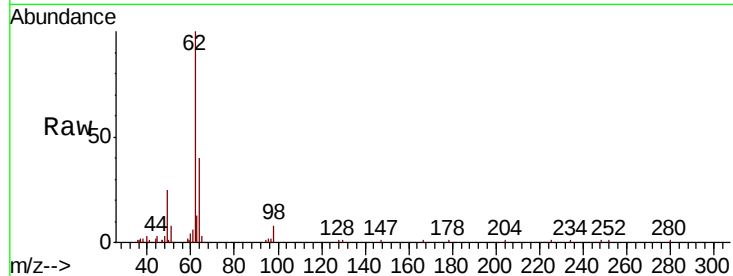
#37
 1,2-Dichloroethane
 Concen: 0.414 ppbv m
 RT: 6.33 min Scan# 1102
 Delta R.T. -0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
62	100		
98	0.0	3.8	5.6#

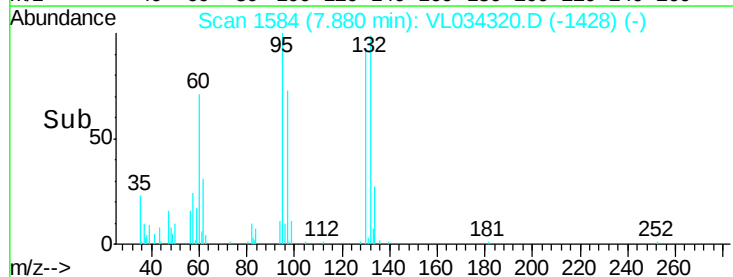
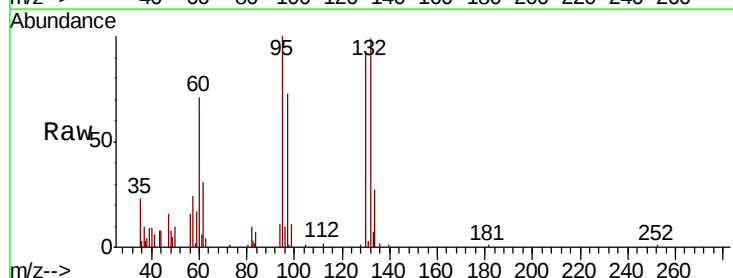
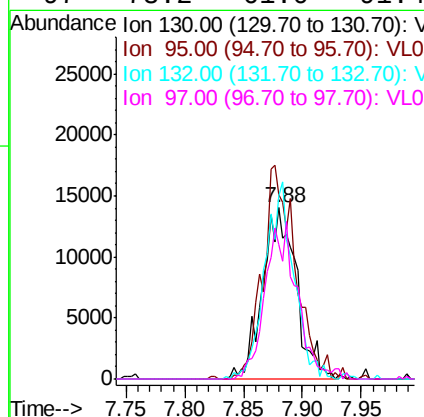
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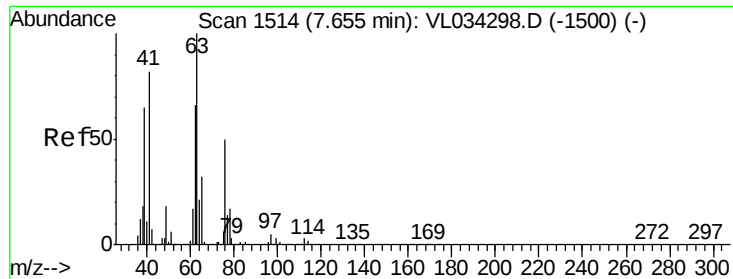
MMDadoda
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#38
 Trichloroethene
 Concen: 0.372 ppbv m
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
130	100		
95	107.6	88.6	132.8
132	106.9	71.2	106.8#
97	78.2	61.0	91.4





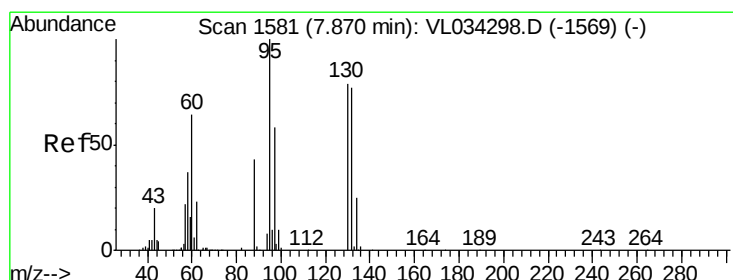
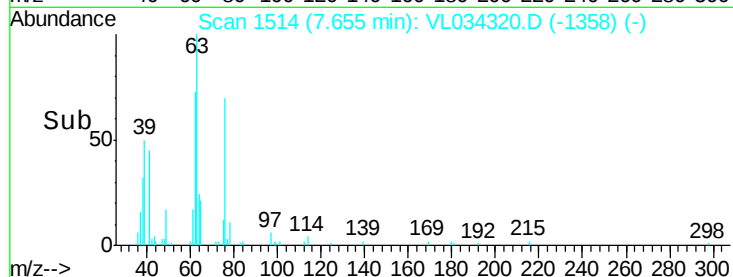
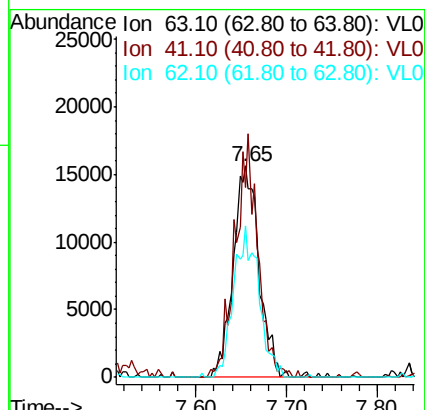
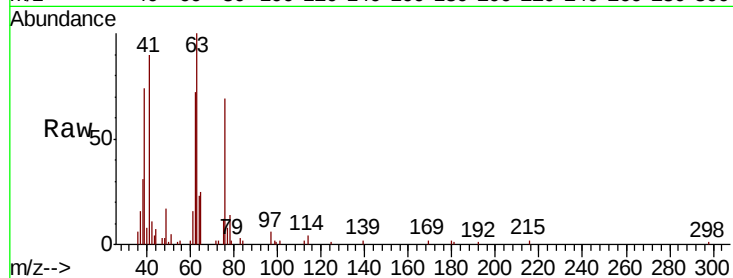
#39
 1,2-Dichloropropane
 Concen: 0.390 ppbv m
 RT: 7.65 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
63	100		
41	90.1	65.6	98.4
62	71.7	53.0	79.6

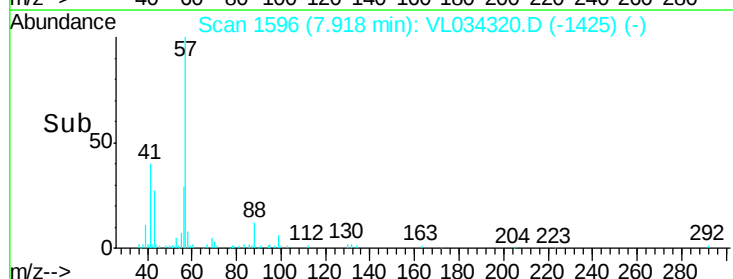
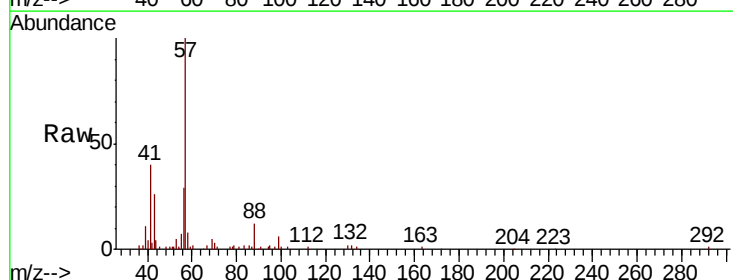
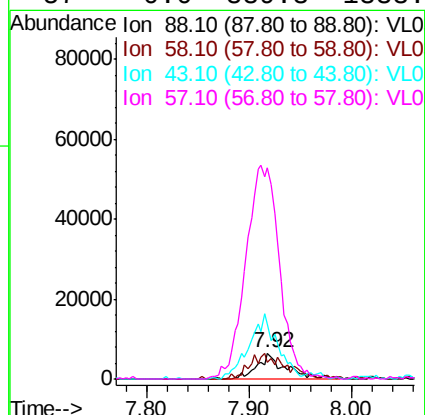
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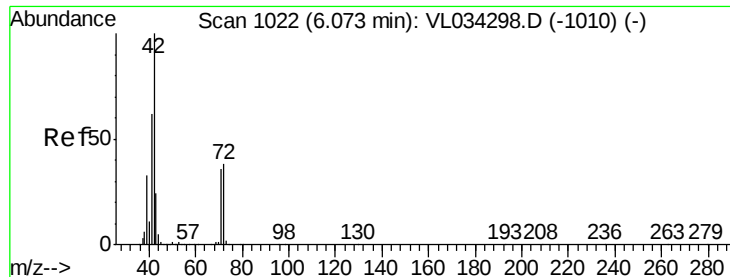
MMDadoda
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#40
 1,4-Dioxane
 Concen: 0.444 ppbv m
 RT: 7.92 min Scan# 1596
 Delta R.T. 0.05 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	110.3	165.5#
43	0.0	228.1	342.1#
57	0.0	889.3	1333.9#





#41

Tetrahydrofuran

Concen: 0.294 ppbv m

RT: 6.10 min Scan# 1030

Delta R.T. 0.03 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

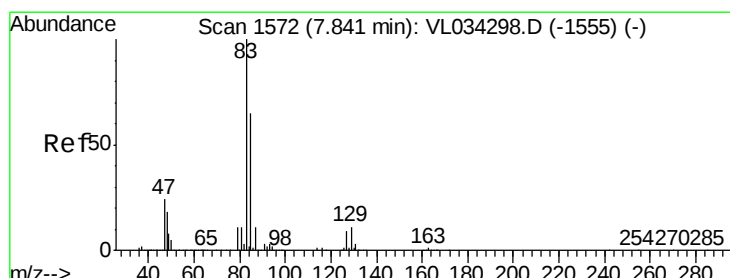
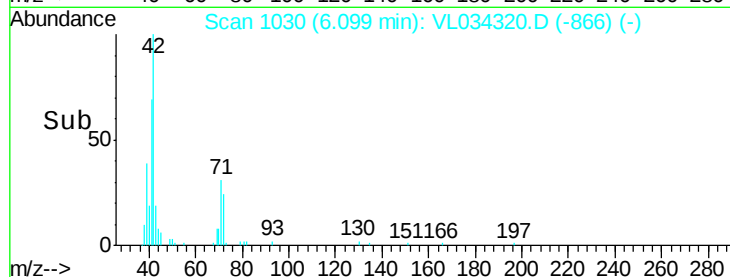
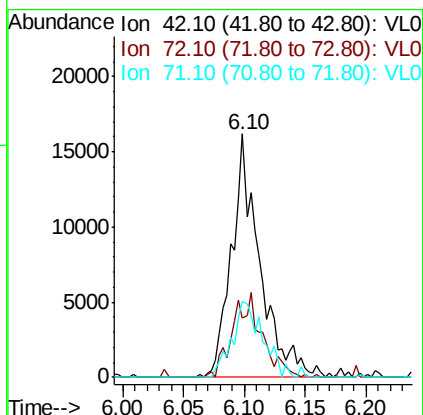
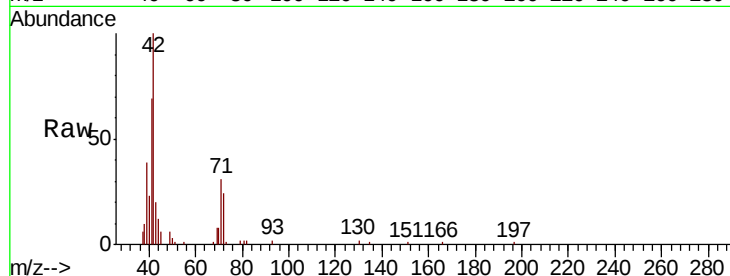
ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:	42	Resp:	25846
Ion Ratio		Lower	Upper
42	100		
72	0.0	28.0	42.0#
71	34.2	27.3	40.9

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#42

Bromodichloromethane

Concen: 0.409 ppbv

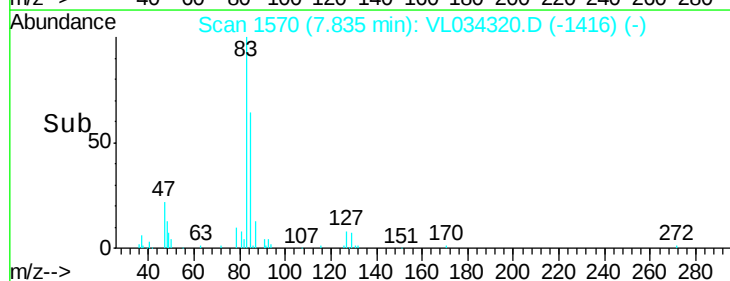
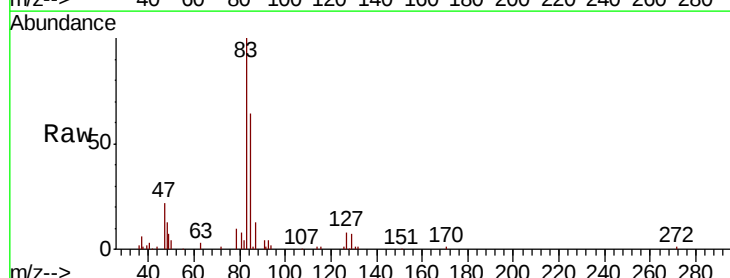
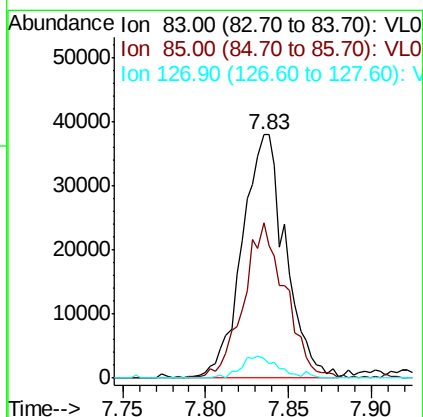
RT: 7.83 min Scan# 1570

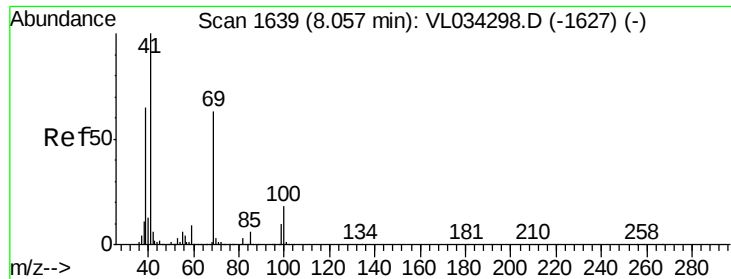
Delta R.T. -0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion:	83	Resp:	69321
Ion Ratio		Lower	Upper
83	100		
85	63.8	51.8	77.6
127	7.8	7.0	10.6





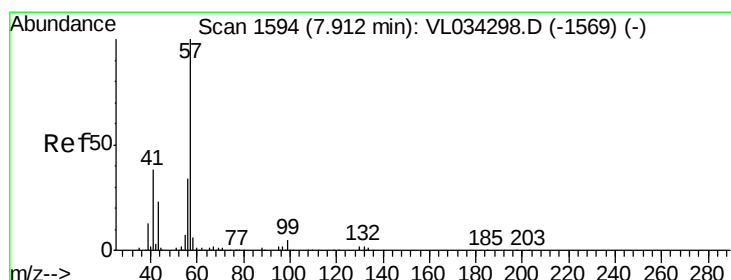
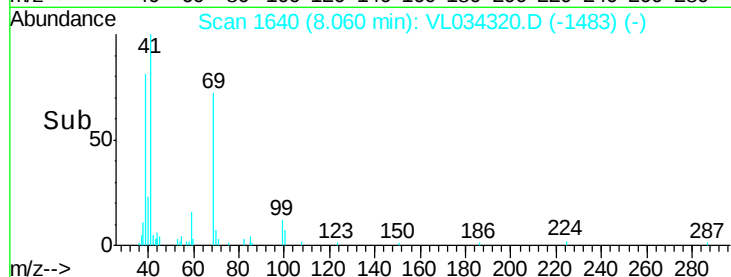
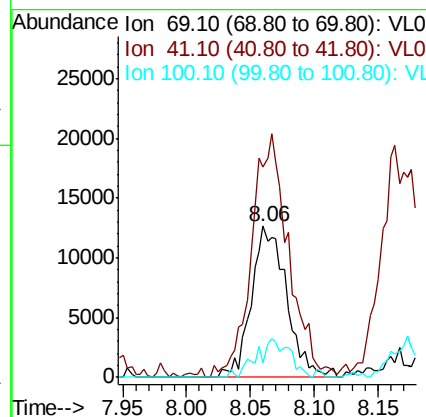
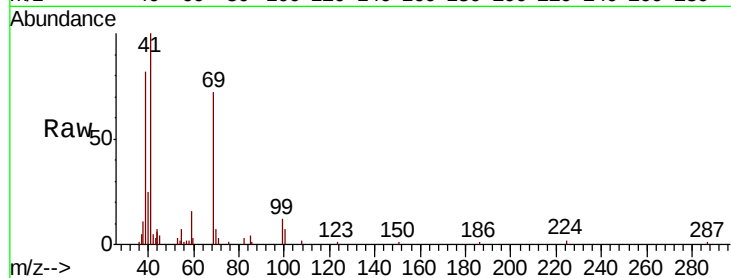
#43
Methvl Methacrylate
Concen: 0.314 ppbv m
RT: 8.06 min Scan# 1640
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	132.1	198.1#
100	0.0	23.2	34.8#

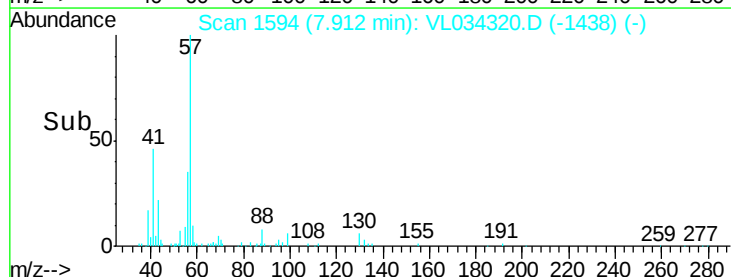
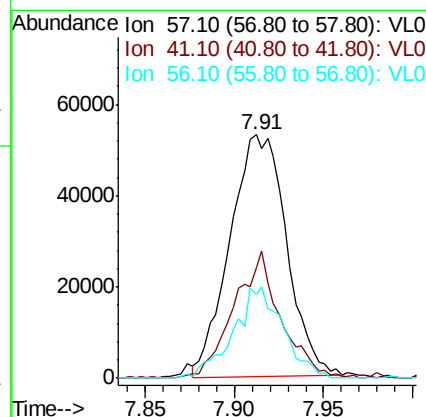
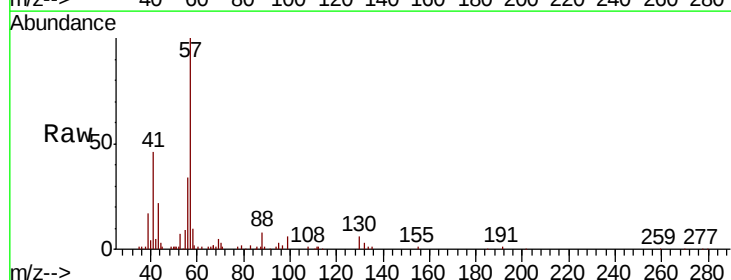
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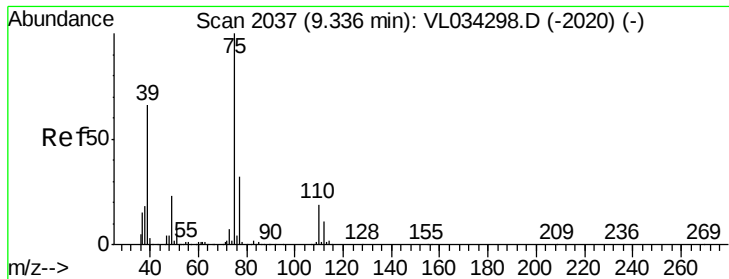
MMDadoda
10/22/2019 2:54:48 PM



#44
2,2,4-Trimethylpentane
Concen: 0.341 ppbv
RT: 7.91 min Scan# 1594
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.6	29.3	43.9
56	33.2	25.3	37.9





#45

t-1,3-Dichloropropene

Concen: 0.278 ppbv m

RT: 9.34 min Scan# 2038

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 75 Resp: 26046

Ion Ratio Lower Upper

75 100

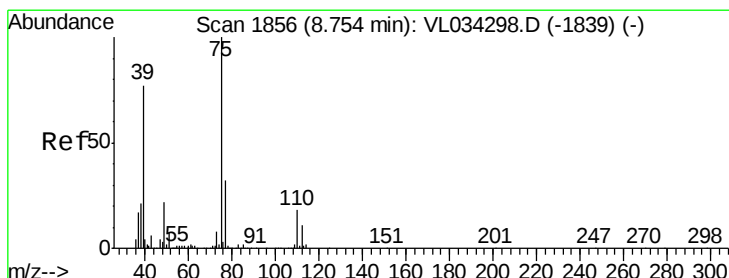
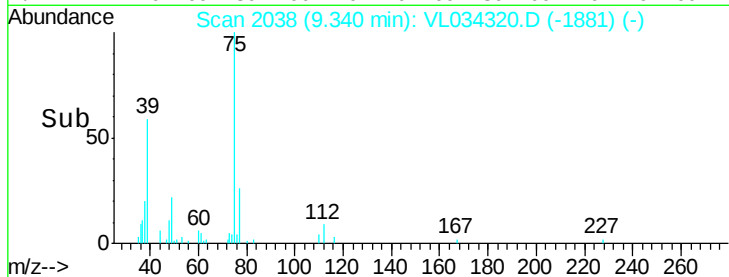
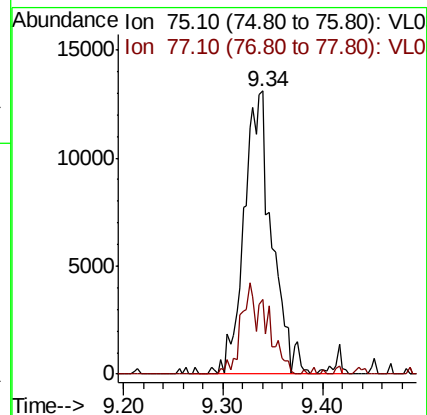
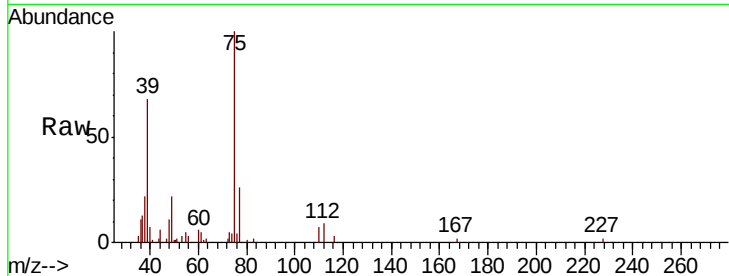
77 26.3 25.6 38.4

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 0.282 ppbv m

RT: 8.75 min Scan# 1856

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

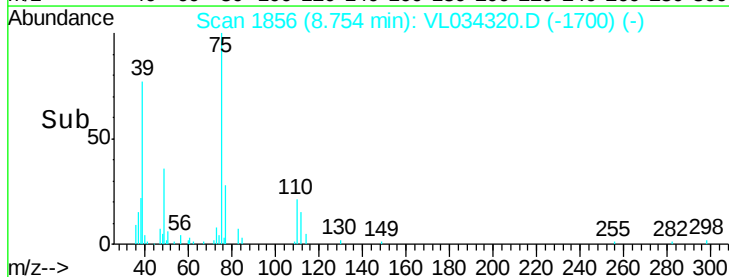
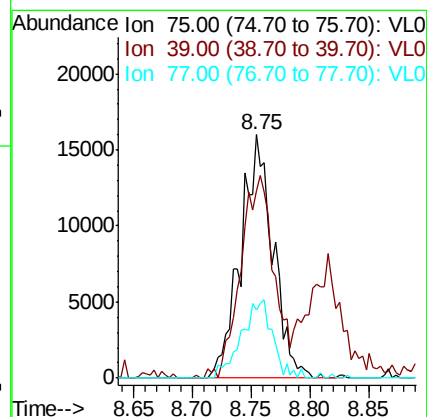
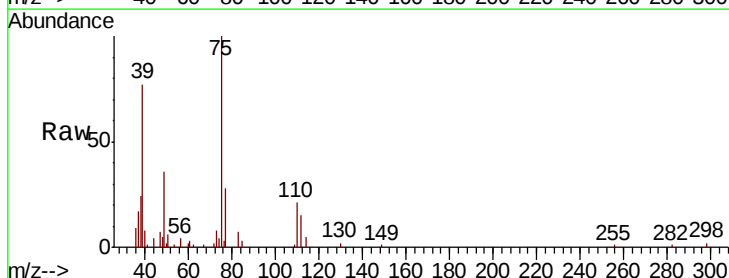
Tgt Ion: 75 Resp: 30292

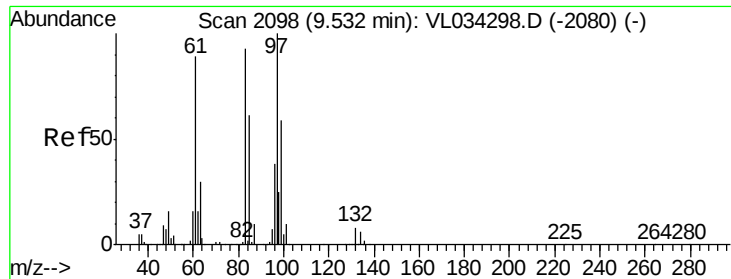
Ion Ratio Lower Upper

75 100

39 76.7 61.2 91.8

77 27.9 25.9 38.9





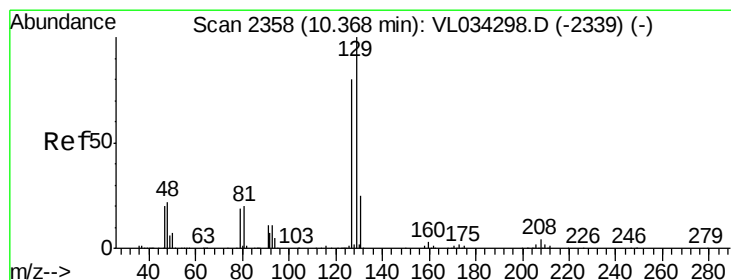
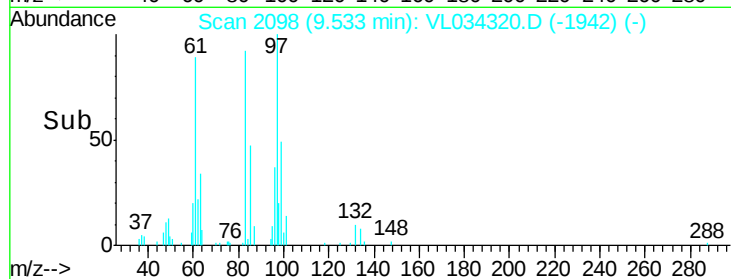
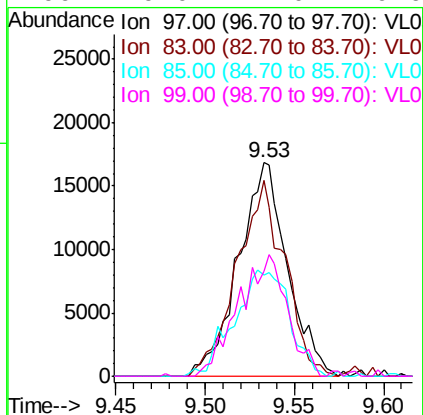
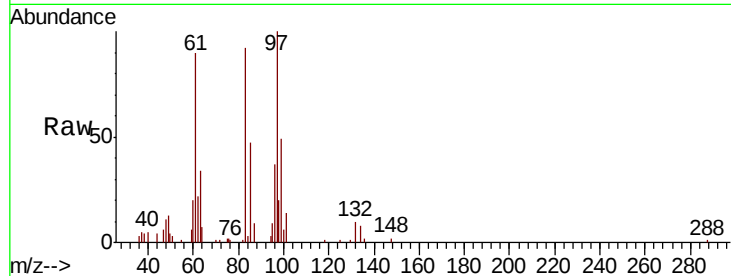
#47
 1,1,2-Trichloroethane
 Concen: 0.399 ppbv
 RT: 9.53 min Scan# 2098
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
97	100		
83	91.8	74.2	111.2
85	46.4	48.6	73.0
99	49.0	47.0	70.6

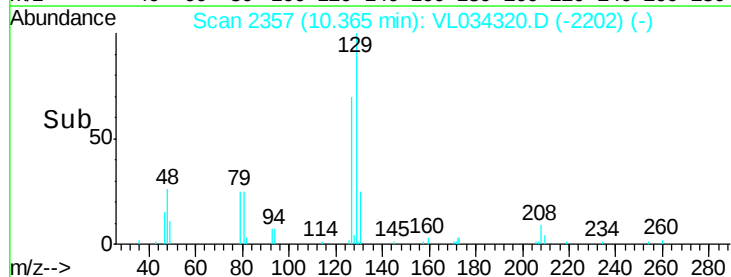
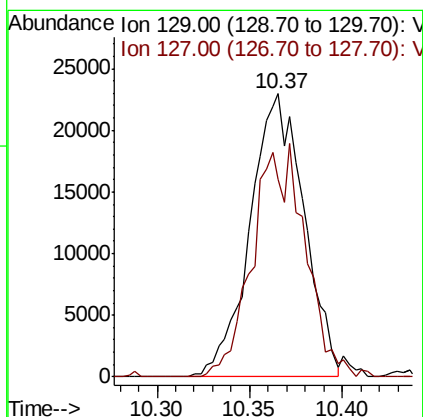
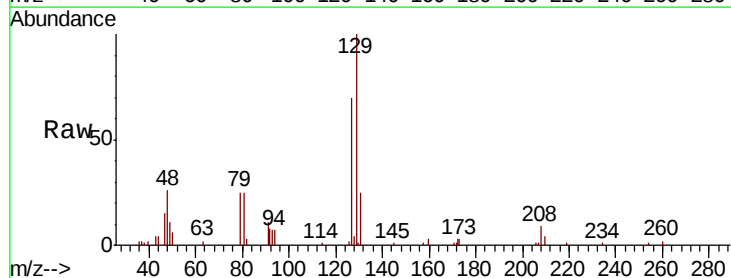
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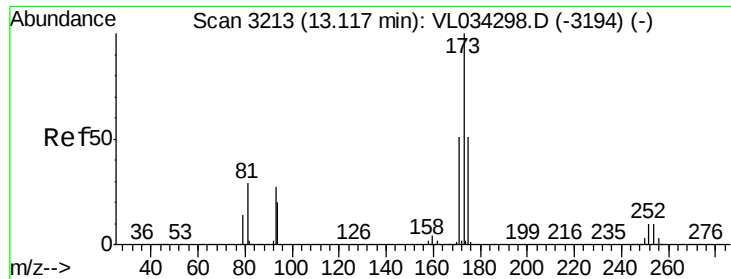
MMDadoda
 10/22/2019 2:54:48 PM



#48
 Dibromochloromethane
 Concen: 0.350 ppbv
 RT: 10.37 min Scan# 2357
 Delta R.T. -0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.8	39.7	119.1





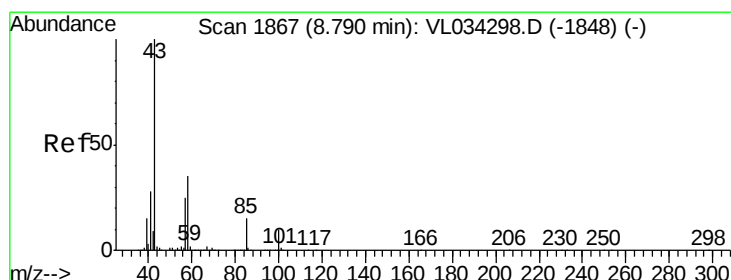
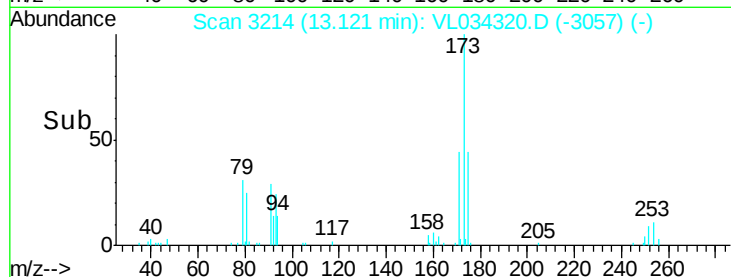
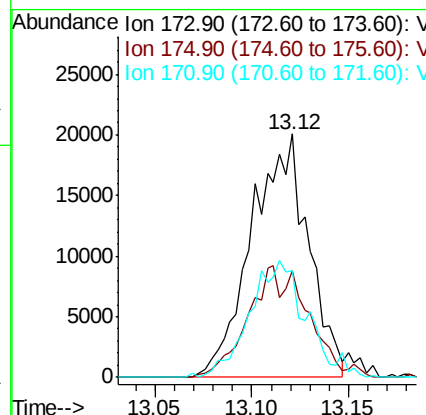
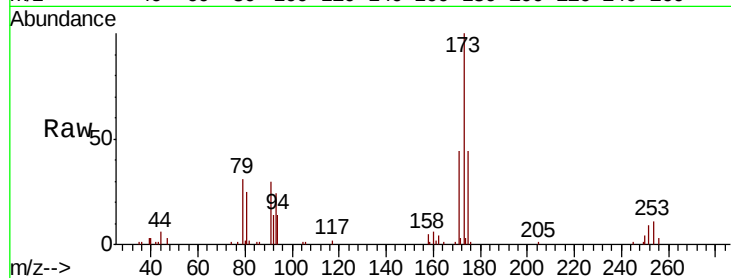
#49
Bromoform
Concen: 0.348 ppbv
RT: 13.12 min Scan# 3214
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	39.8	59.6
171	48.2	41.8	62.6

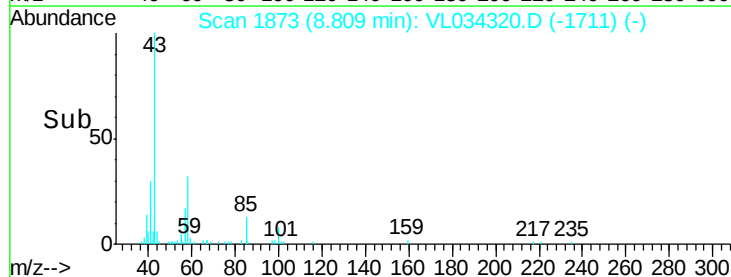
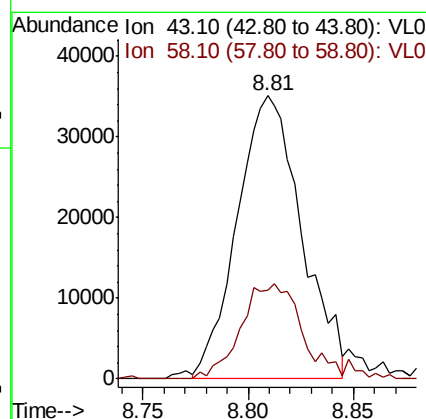
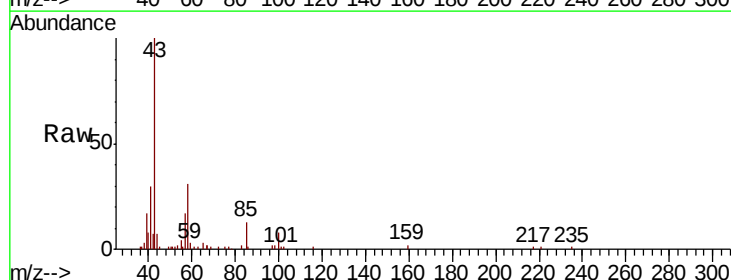
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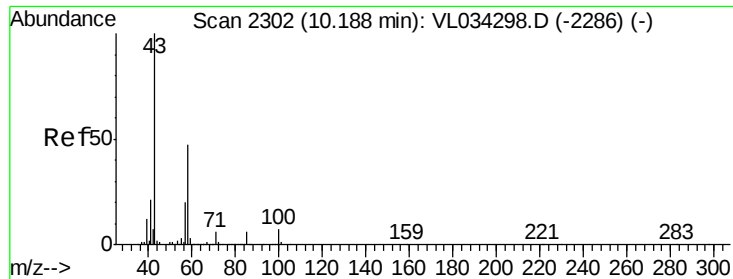
MMDadoda
10/22/2019 2:54:48 PM



#50
4-Methyl-2-Pentanone
Concen: 0.329 ppbv
RT: 8.81 min Scan# 1873
Delta R.T. 0.02 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.0	27.6	41.4





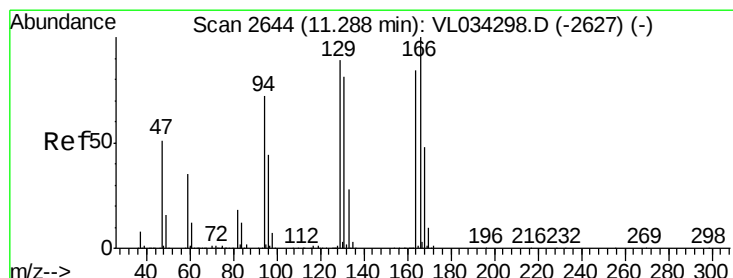
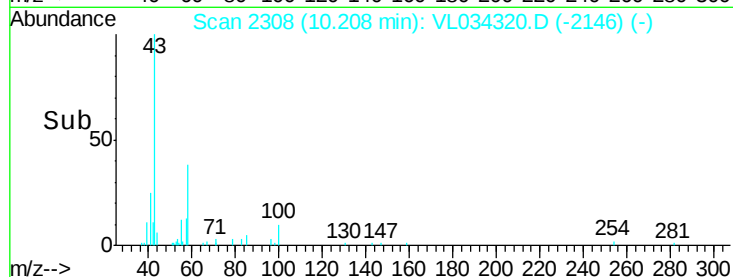
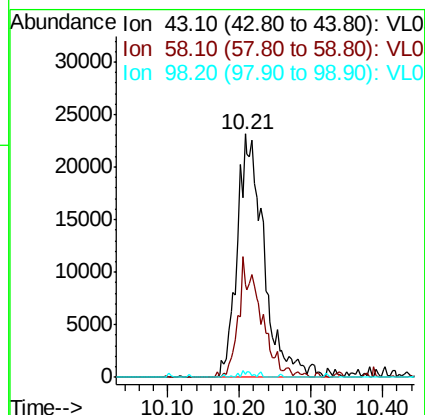
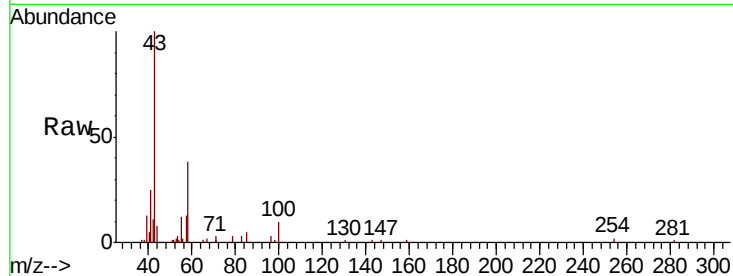
#51
2-Hexanone
Concen: 0.324 ppbv m
RT: 10.21 min Scan# 2308
Delta R.T. 0.02 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	40.8	37.0	55.6
98	1.2	0.2	0.2#

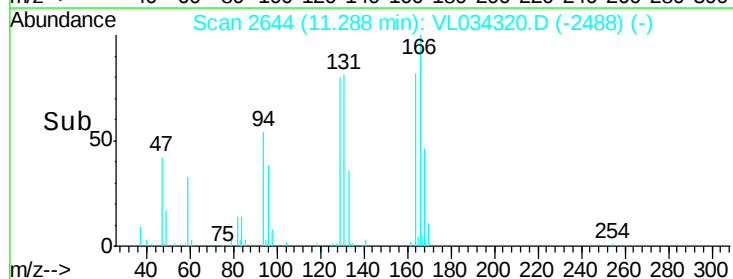
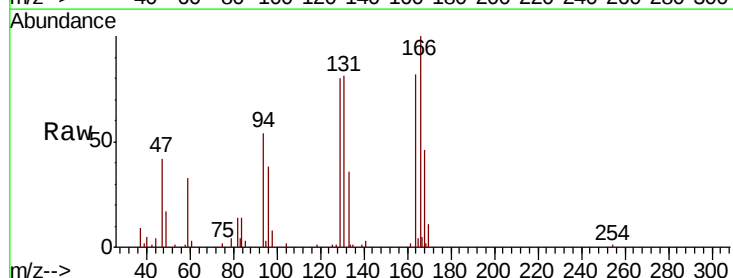
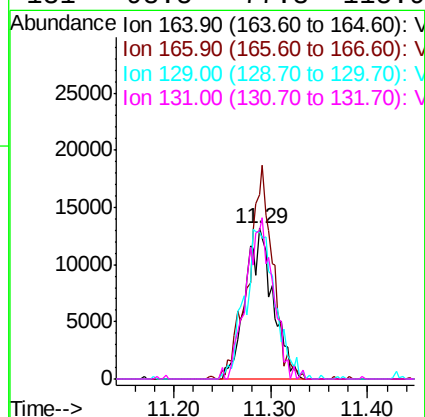
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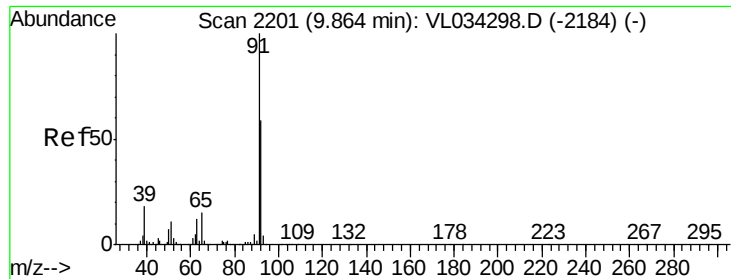
MMDadoda
10/22/2019 2:54:48 PM



#52
Tetrachloroethene
Concen: 0.360 ppbv m
RT: 11.29 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.2	95.3	142.9
129	97.7	84.5	126.7
131	98.5	77.3	115.9





#53

Toluene

Concen: 0.318 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 91 Resp: 65176

Ion Ratio Lower Upper

91 100

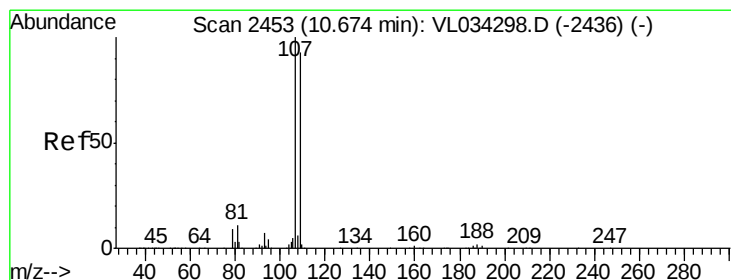
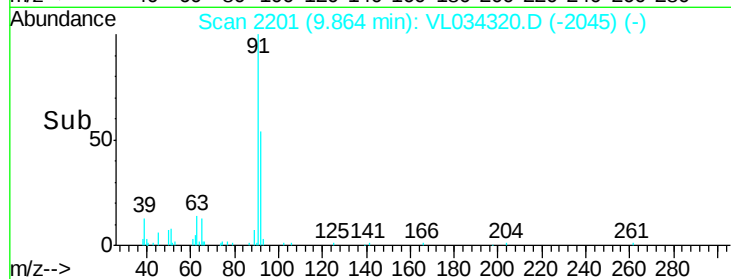
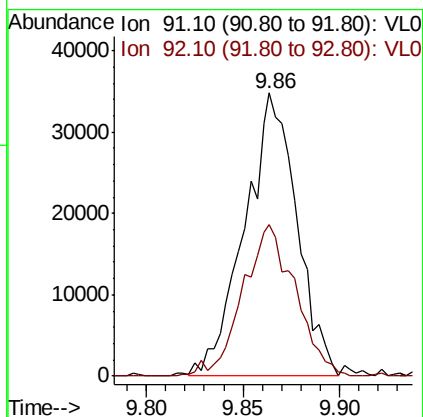
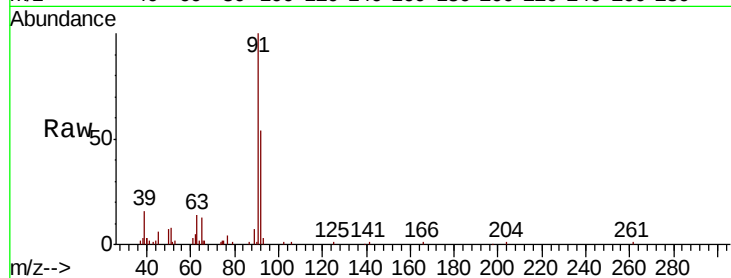
92 53.9 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 0.385 ppbv m

RT: 10.67 min Scan# 2453

Delta R.T. 0.00 min

Lab File: VL034320.D

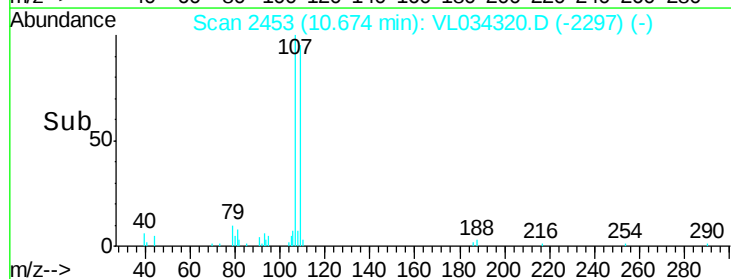
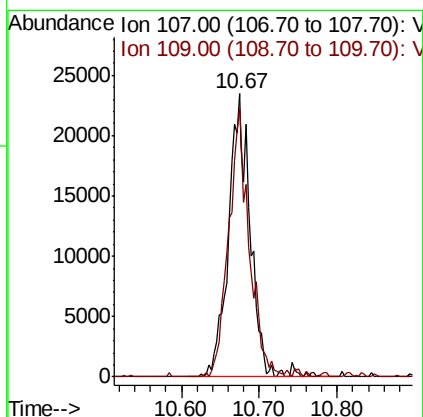
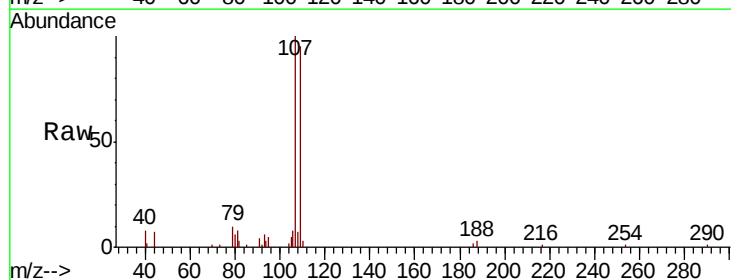
Acq: 17 Oct 2019 17:23

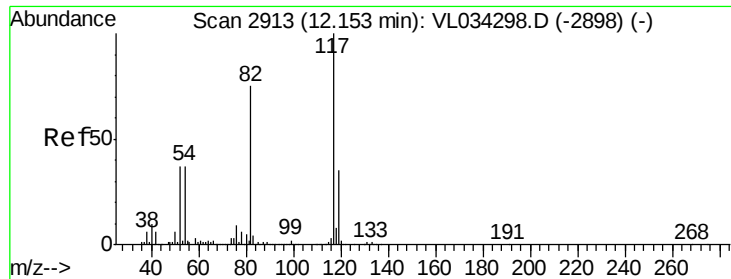
Tgt Ion: 107 Resp: 46274

Ion Ratio Lower Upper

107 100

109 94.6 74.6 112.0





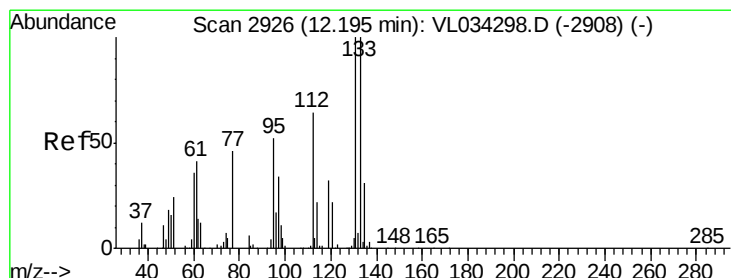
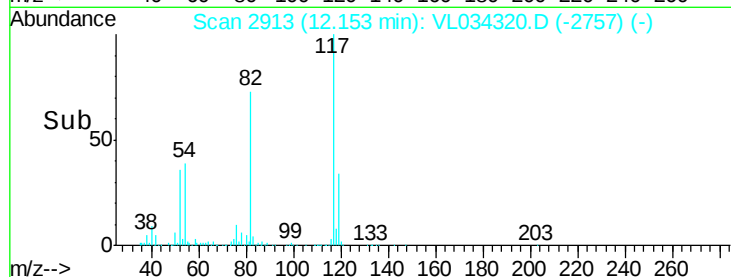
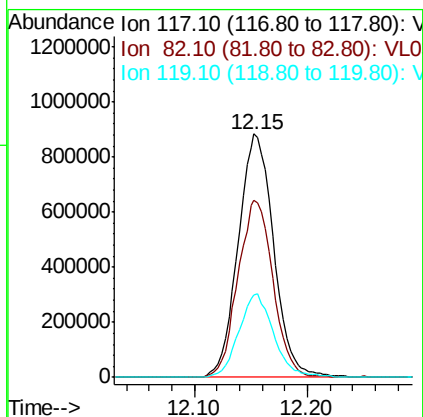
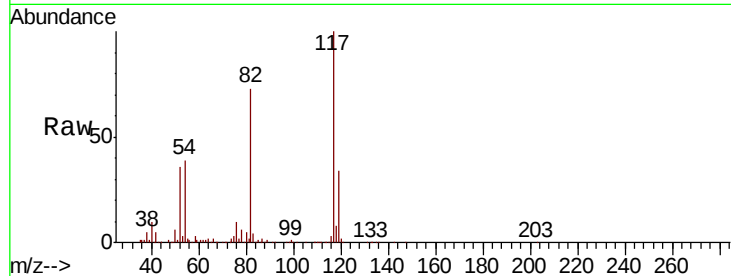
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:117 Resp: 1927670
Ion Ratio Lower Upper
117 100
82 72.1 55.5 83.3
119 33.9 26.5 39.7

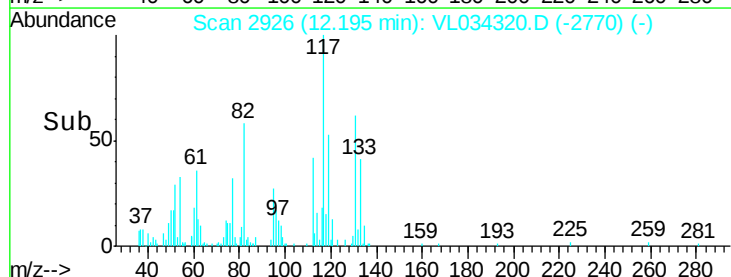
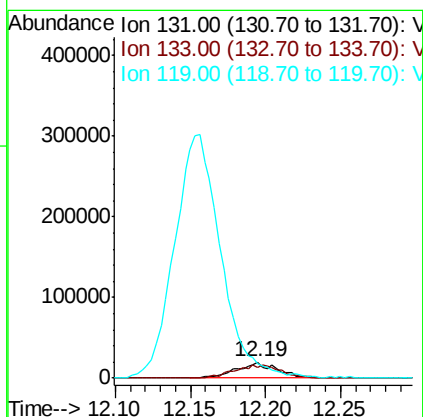
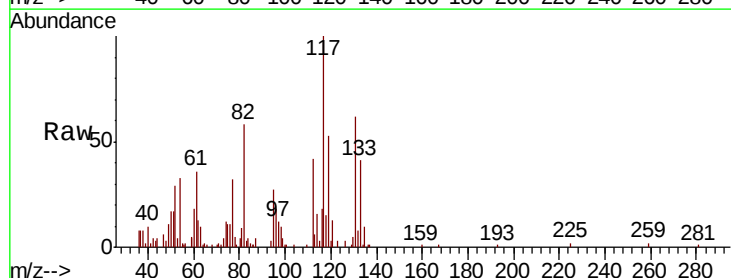
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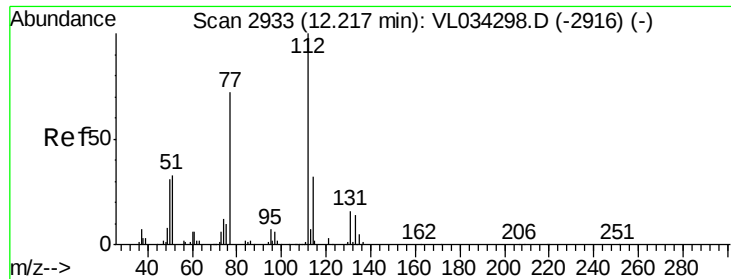
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.423 ppbv m
RT: 12.19 min Scan# 2926
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion:131 Resp: 37613
Ion Ratio Lower Upper
131 100
133 94.0 77.1 115.7
119 0.0 49.0 73.4#





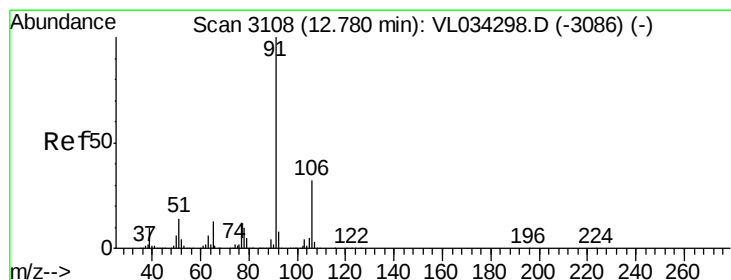
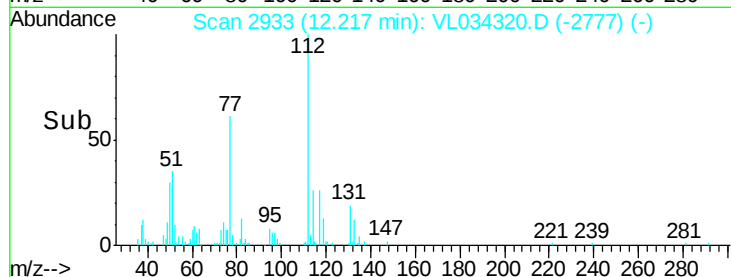
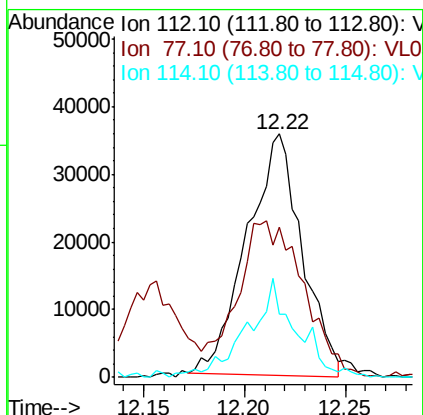
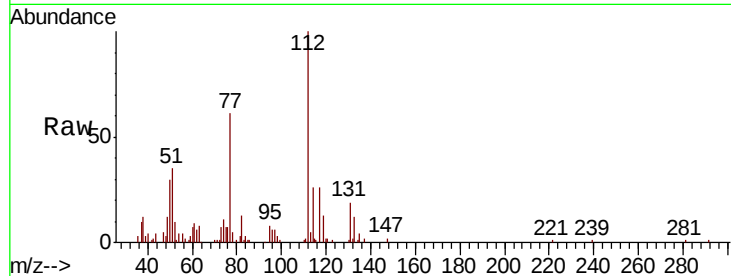
#57
Chlorobenzene
Concen: 0.423 ppbv
RT: 12.22 min Scan# 2933
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
112	100		
77	49.9	58.6	88.0#
114	22.9	28.6	35.0#

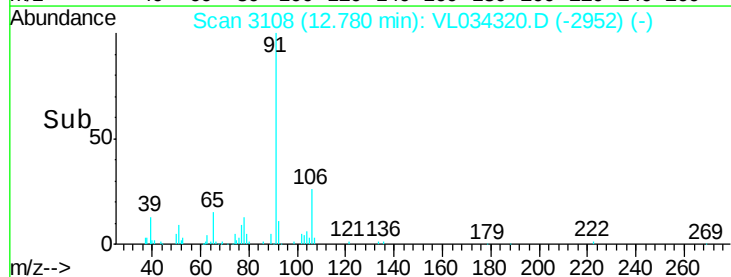
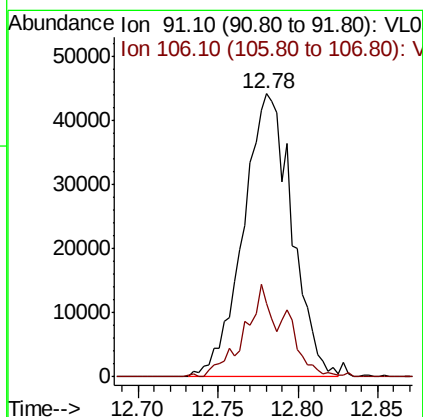
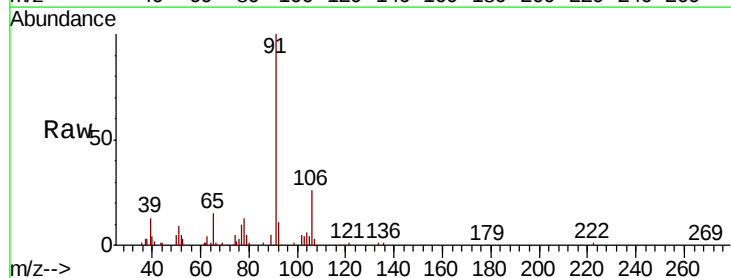
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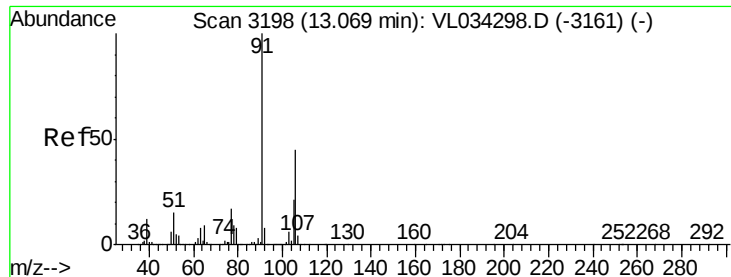
MMDadoda
10/22/2019 2:54:48 PM



#58
Ethyl Benzene
Concen: 0.342 ppbv
RT: 12.78 min Scan# 3108
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.3	25.3	37.9





#59

m/p-Xylene

Concen: 0.774 ppbv m

RT: 13.07 min Scan# 3197

Delta R.T. -0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 91 Resp: 180786

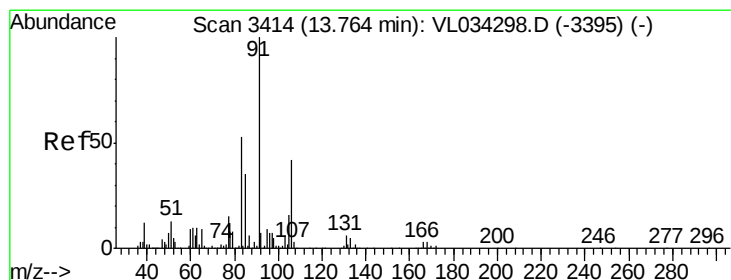
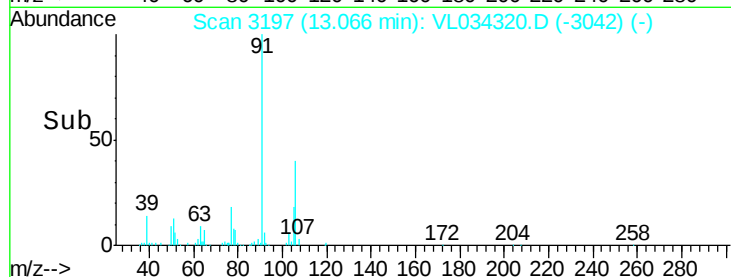
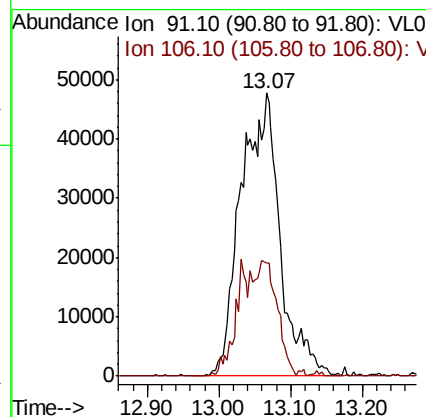
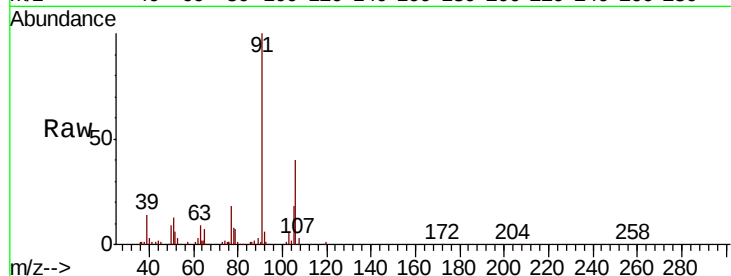
Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#

Manual Integrations
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MMDadoda
10/22/2019 2:54:48 PM



#60

o-Xylene

Concen: 0.367 ppbv

RT: 13.76 min Scan# 3413

Delta R.T. -0.00 min

Lab File: VL034320.D

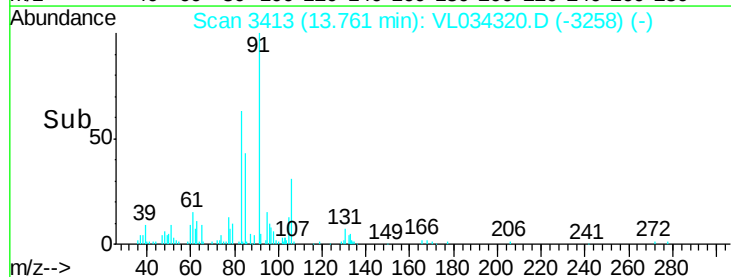
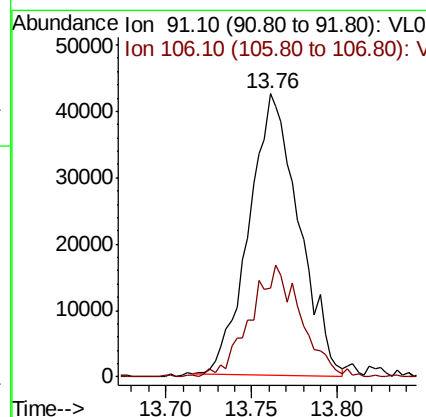
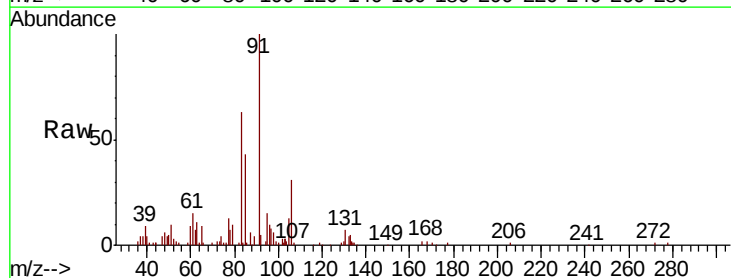
Acq: 17 Oct 2019 17:23

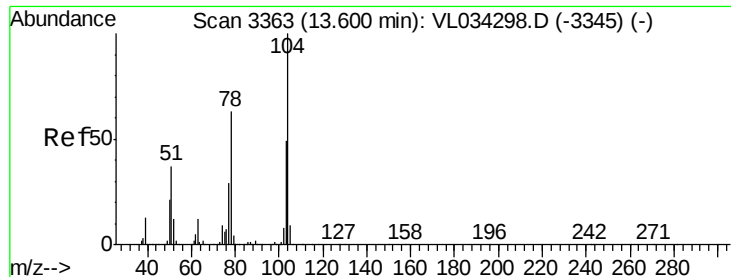
Tgt Ion: 91 Resp: 85243

Ion Ratio Lower Upper

91 100

106 40.9 21.6 64.6





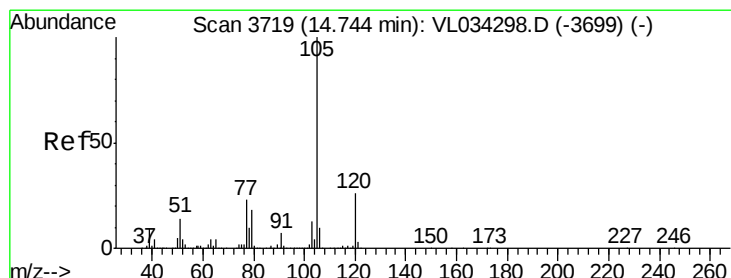
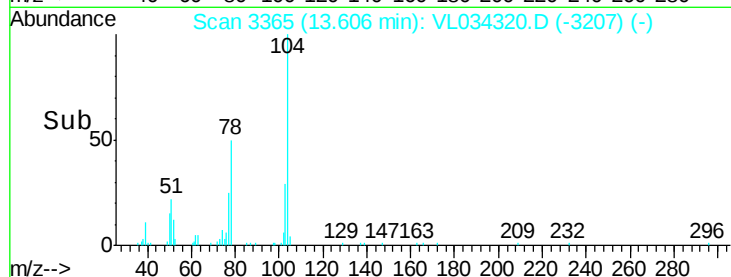
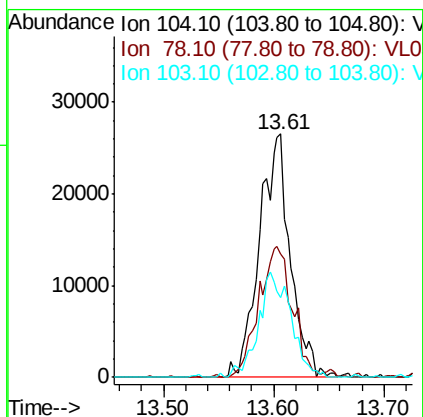
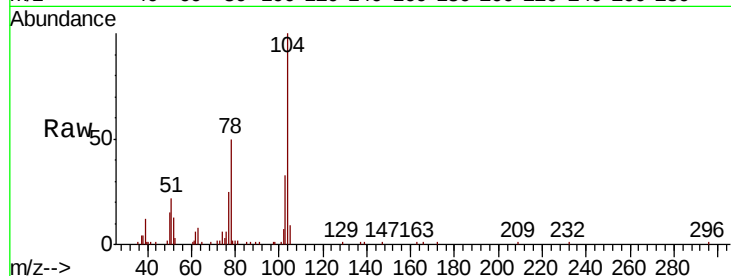
#61
Stvrene
Concen: 0.317 ppbv m
RT: 13.61 min Scan# 3365
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	59.3	47.8	71.8
103	0.0	39.0	58.6#

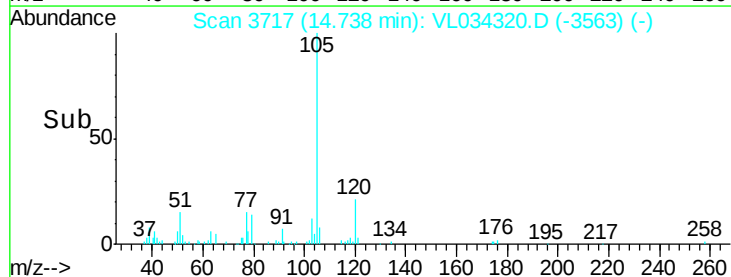
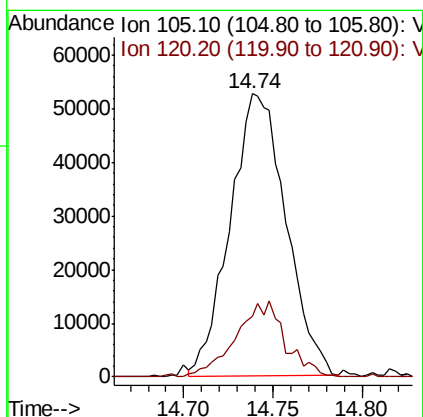
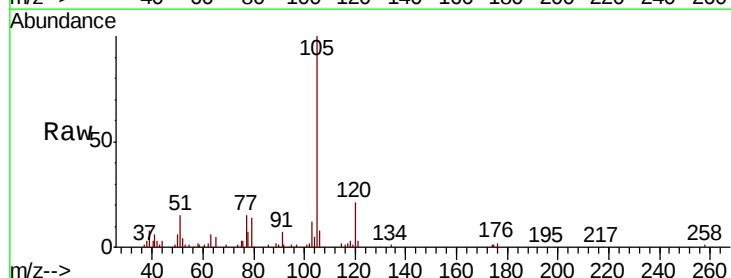
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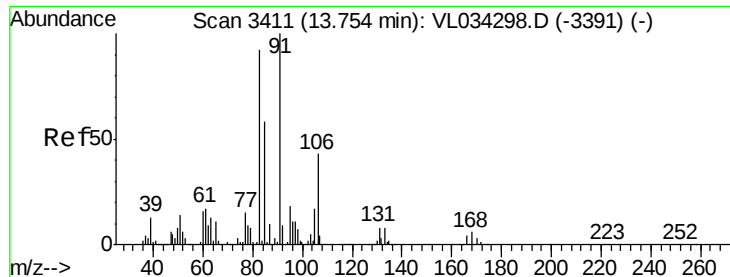
MMDadoda
10/22/2019 2:54:48 PM



#62
Isopropylbenzene
Concen: 0.374 ppbv
RT: 14.74 min Scan# 3717
Delta R.T. -0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.8	20.8	31.2





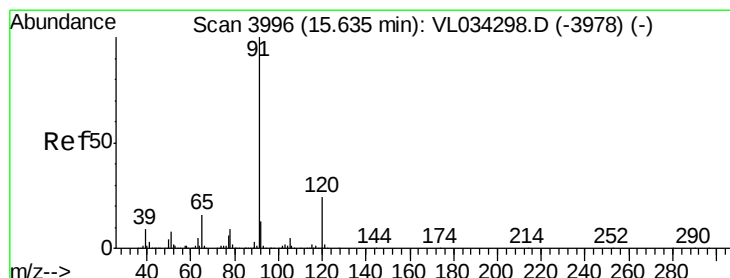
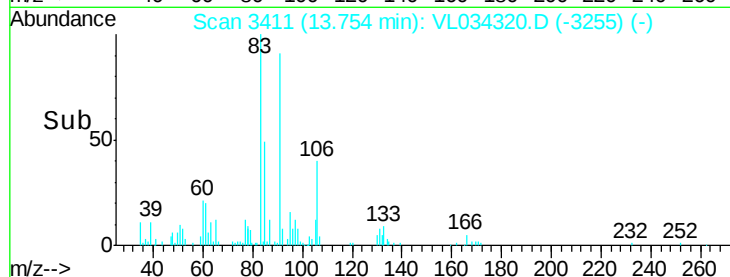
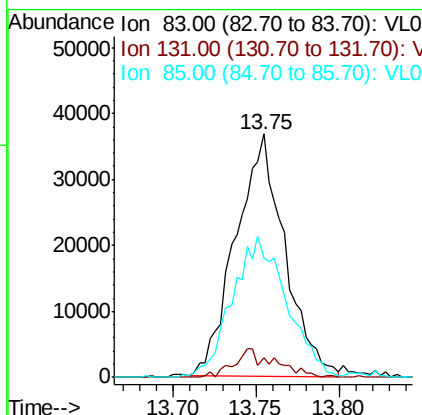
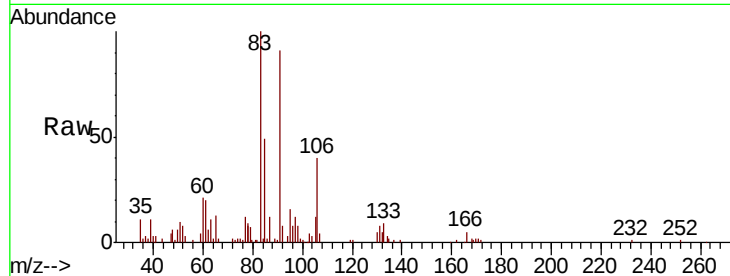
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.405 ppbv
 RT: 13.75 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	65.5	32.5	97.4

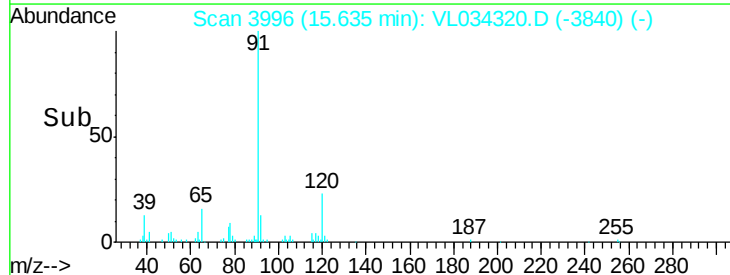
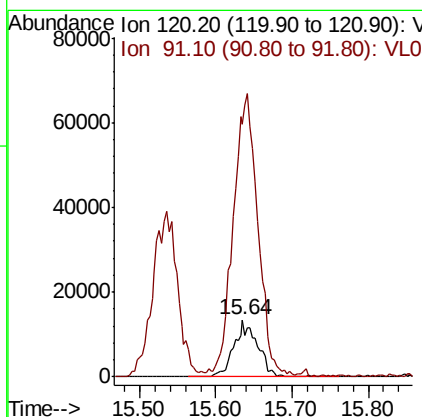
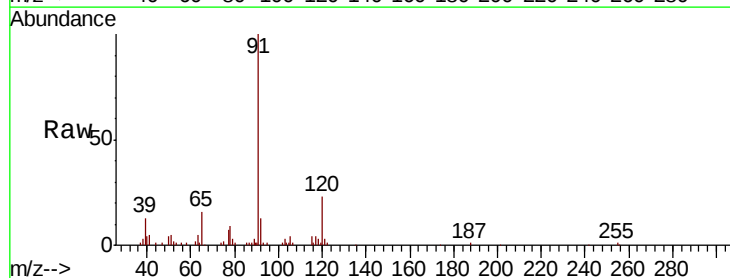
Manual Integrations
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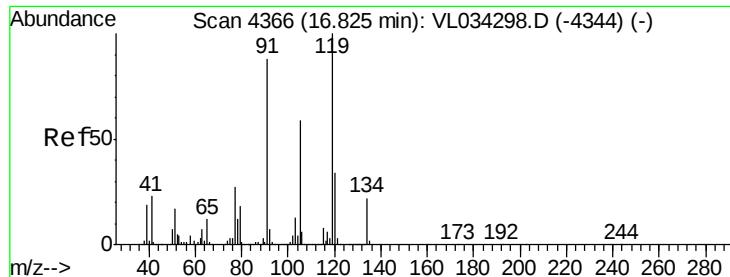
MMDadoda
 10/22/2019 2:54:48 PM



#64
 n-propylbenzene
 Concen: 0.360 ppbv m
 RT: 15.64 min Scan# 3996
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
120	100		
91	536.0	374.9	562.3





#65

tert-Butylbenzene

Concen: 0.373 ppbv m

RT: 16.82 min Scan# 4366

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

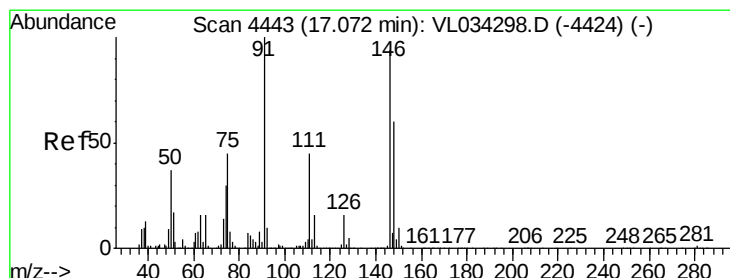
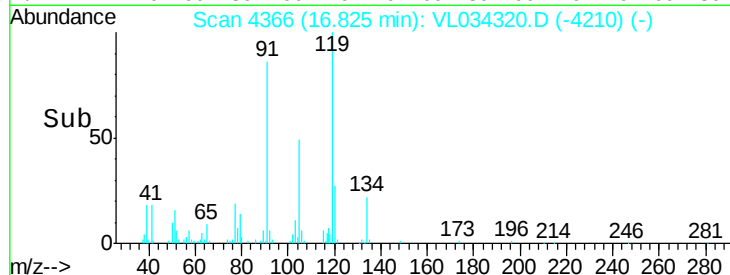
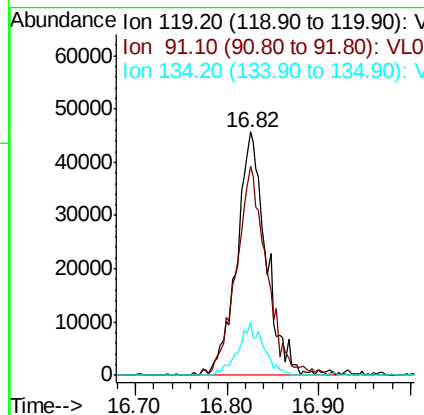
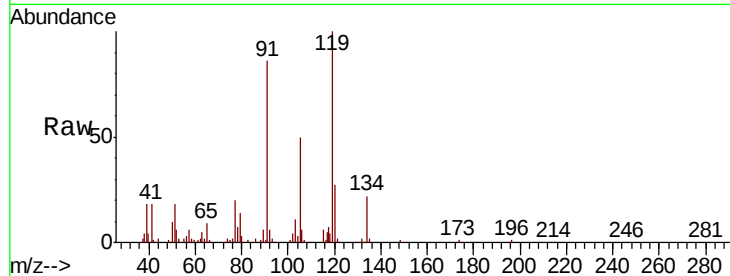
ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:	119	Resp:	101585
Ion Ratio	Lower	Upper	
119	100		
91	89.7	71.4	107.0
134	18.8	15.9	23.9

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.296 ppbv m

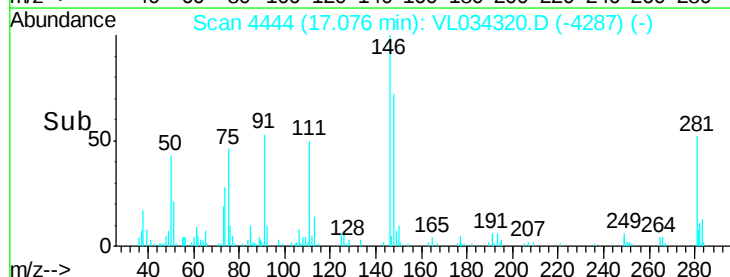
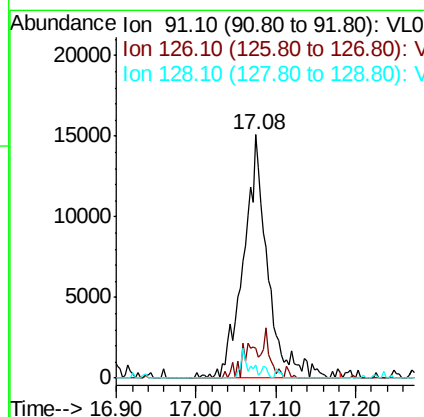
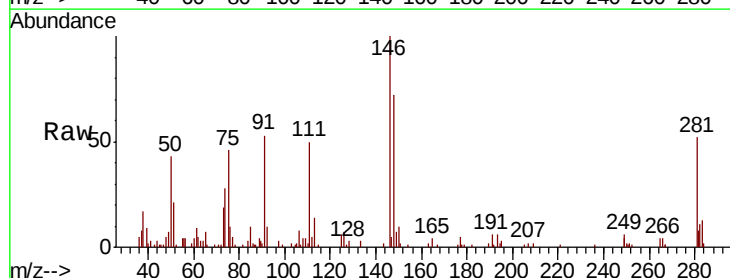
RT: 17.08 min Scan# 4444

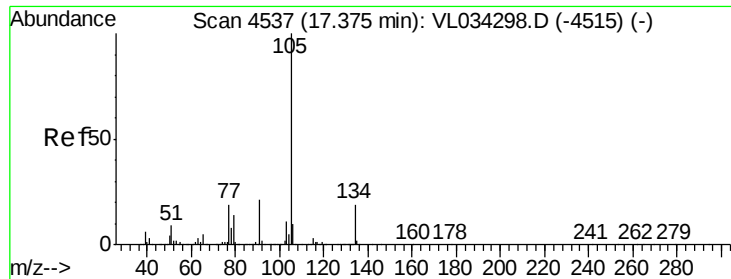
Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion:	91	Resp:	31837
Ion Ratio	Lower	Upper	
91	100		
126	0.0	12.9	19.3#
128	6.1	4.3	6.5





#67

sec-Butylbenzene

Concen: 0.364 ppbv

RT: 17.38 min Scan# 4538

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 105 Resp: 139428

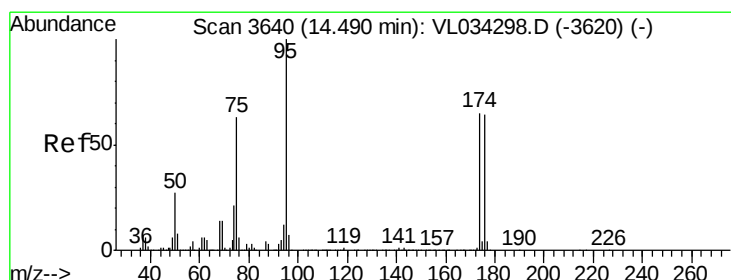
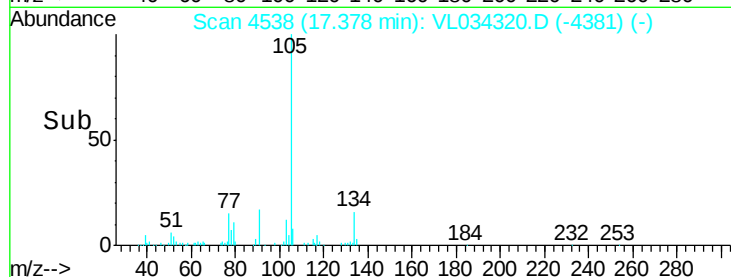
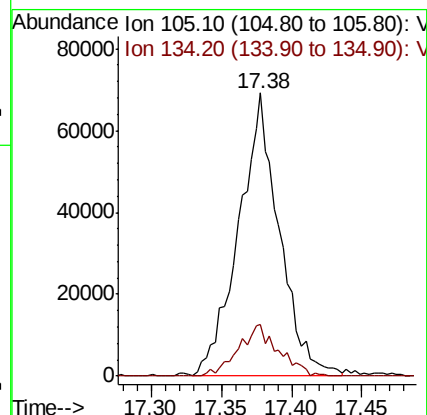
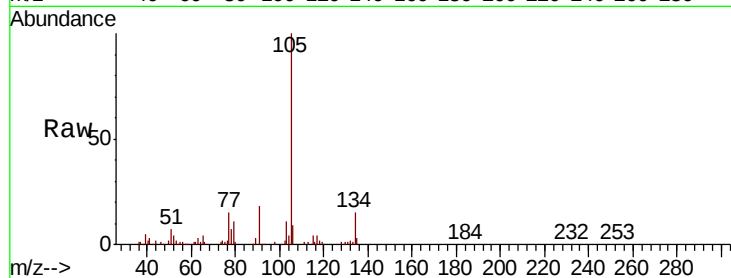
Ion Ratio Lower Upper

105 100

134 17.8 15.4 23.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.431 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

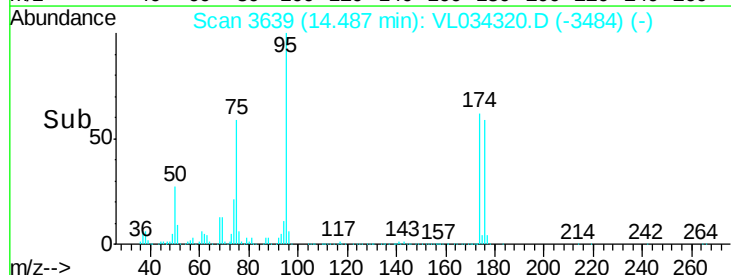
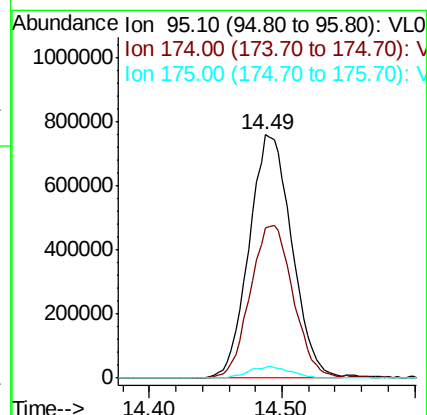
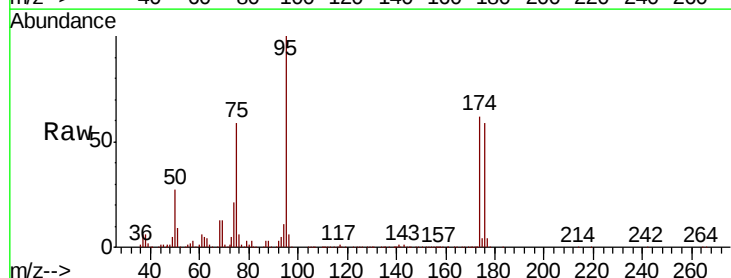
Tgt Ion: 95 Resp: 1703001

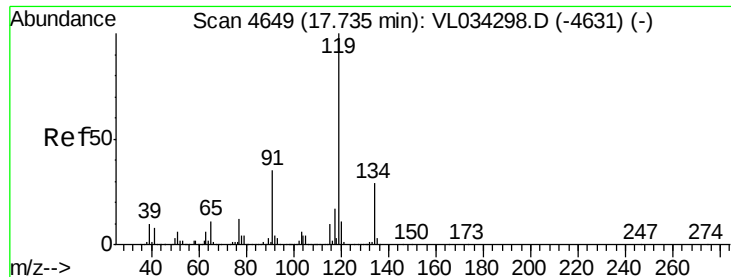
Ion Ratio Lower Upper

95 100

174 63.4 52.6 78.8

175 4.7 3.8 5.6





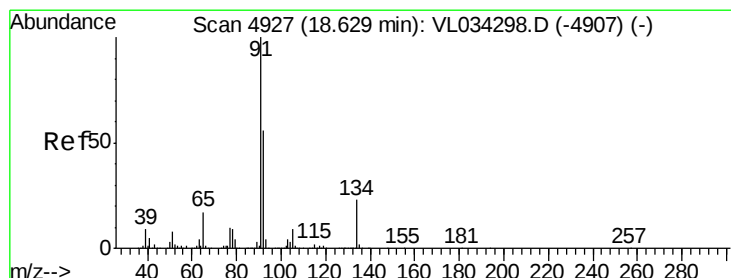
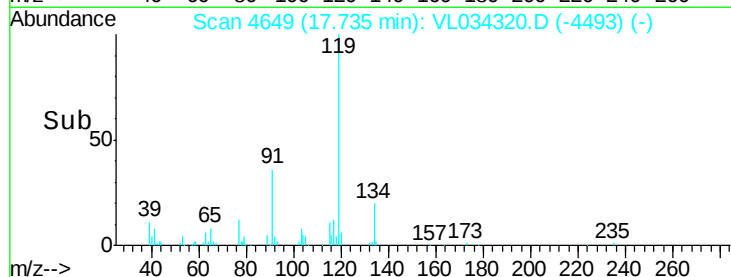
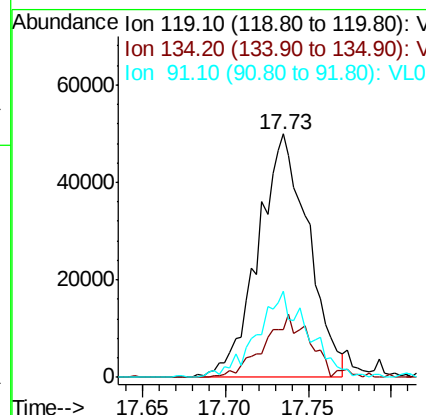
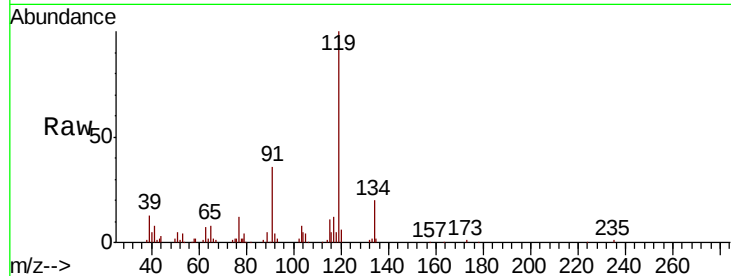
#69
p-Isopropyltoluene
Concen: 0.338 ppbv
RT: 17.73 min Scan# 4649
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.2	21.3	31.9
91	35.8	26.6	39.8

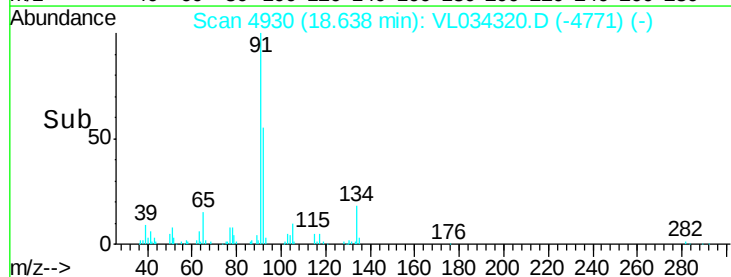
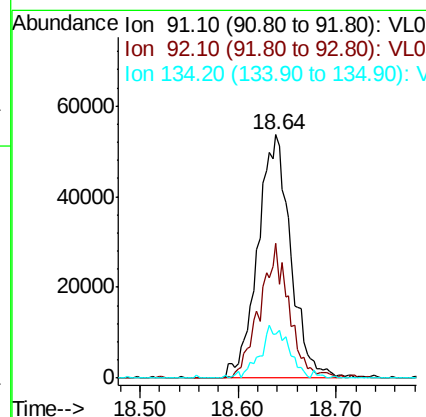
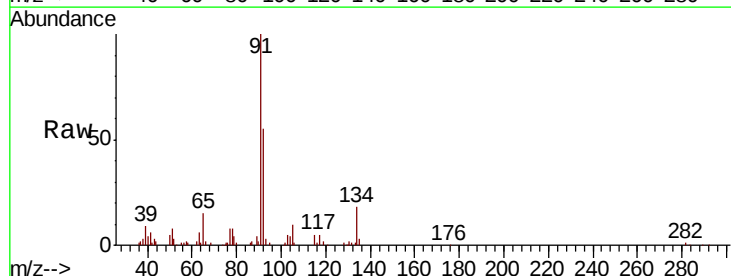
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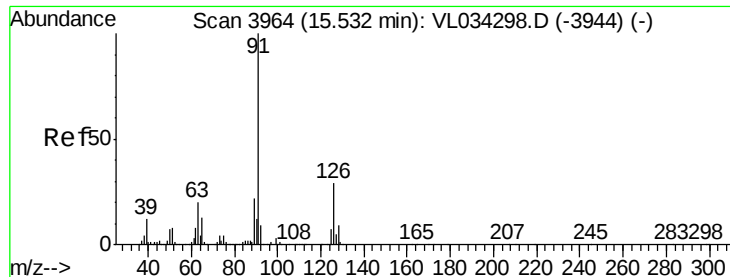
MMDadoda
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#70
n-Butylbenzene
Concen: 0.368 ppbv m
RT: 18.64 min Scan# 4930
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	49.1	44.5	66.7
134	19.3	18.2	27.2





#71

2-Chlorotoluene

Concen: 0.378 ppbv m

RT: 15.54 min Scan# 3965

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion: 91 Resp: 89980

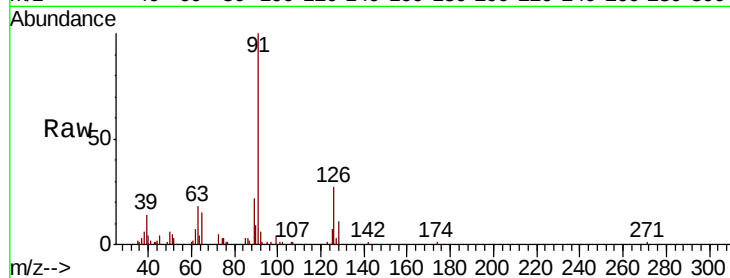
Ion Ratio Lower Upper

91 100

126 24.8 11.9 47.5

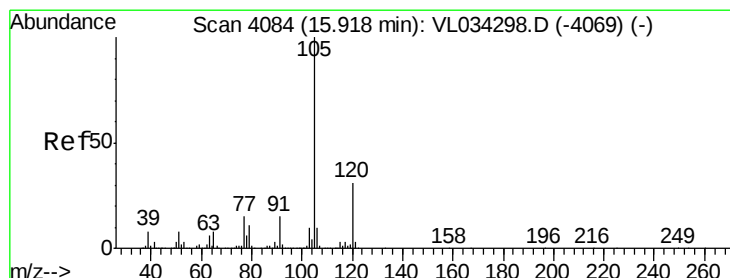
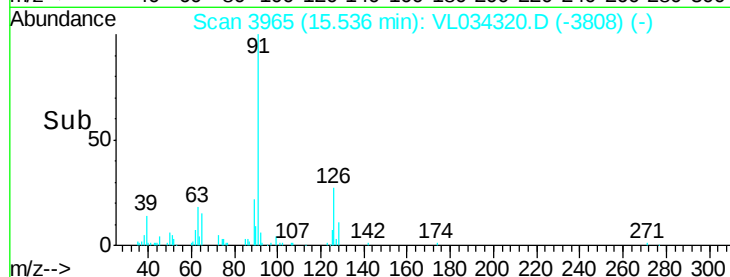
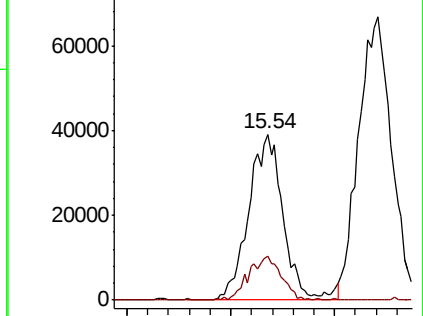
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.351 ppbv m

RT: 15.92 min Scan# 4084

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion: 105 Resp: 91707

Ion Ratio Lower Upper

105 100

120 29.5 23.8 35.8

91 16.2 11.2 16.8

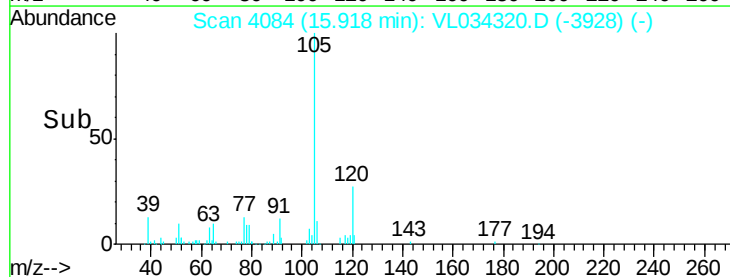
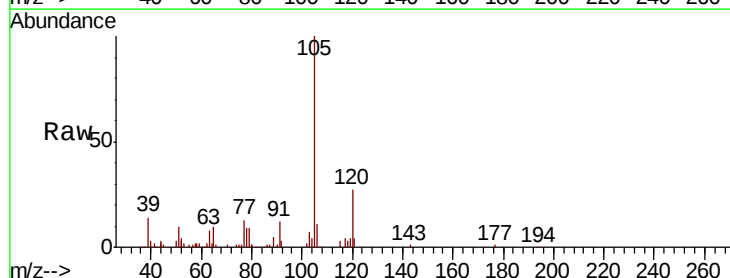
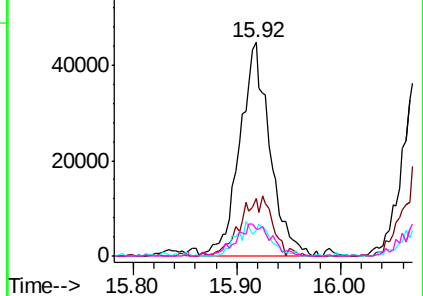
77 17.2 12.8 19.2

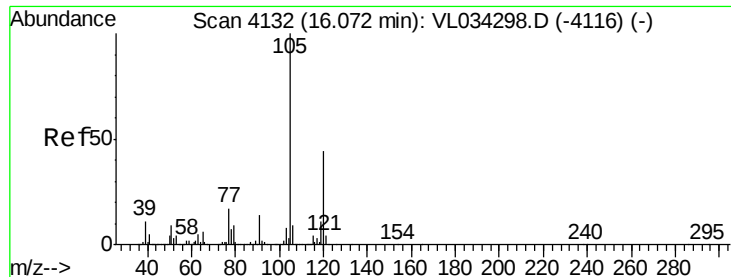
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 0.328 ppbv

RT: 16.08 min Scan# 4133

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:105 Resp: 84828

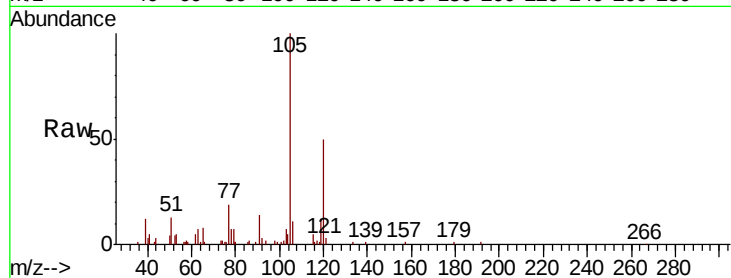
Ion Ratio Lower Upper

105 100

120 49.8 35.2 52.8

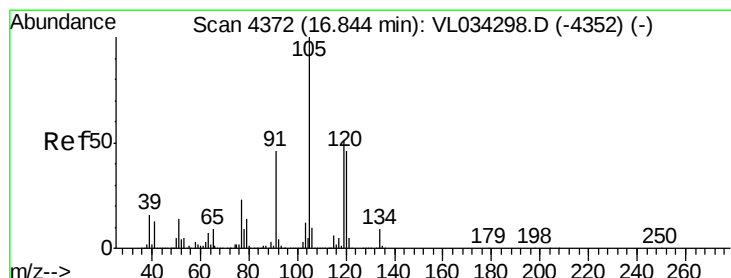
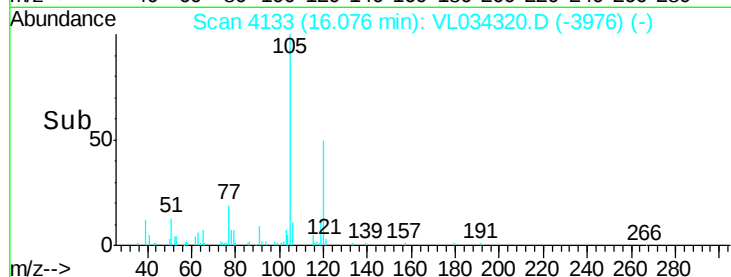
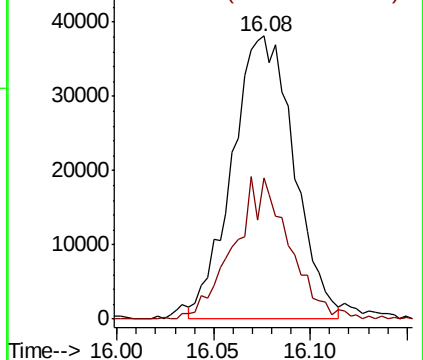
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.397 ppbv m

RT: 16.84 min Scan# 4370

Delta R.T. -0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion:105 Resp: 107288

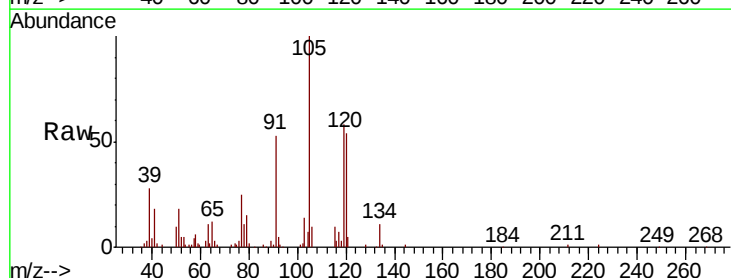
Ion Ratio Lower Upper

105 100

120 54.4 37.0 55.6

91 52.5 38.2 57.2

77 24.8 19.0 28.4

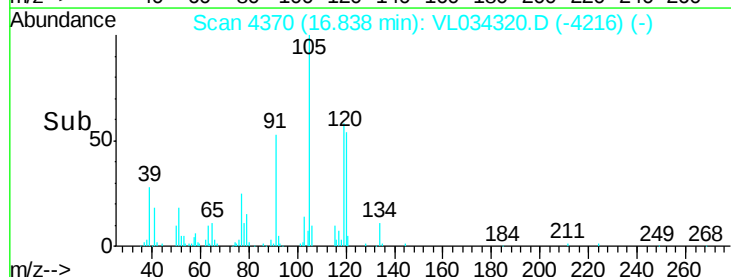
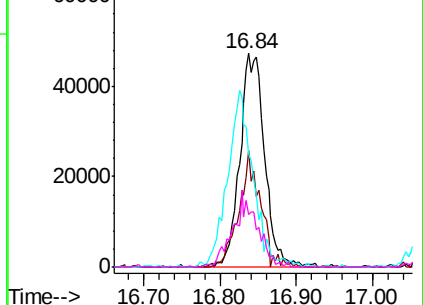


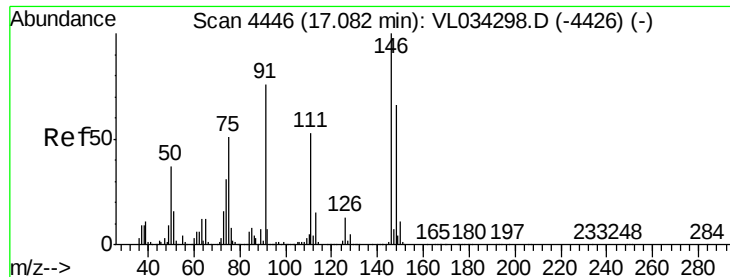
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 0.414 ppbv

RT: 17.08 min Scan# 4445

Delta R.T. -0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

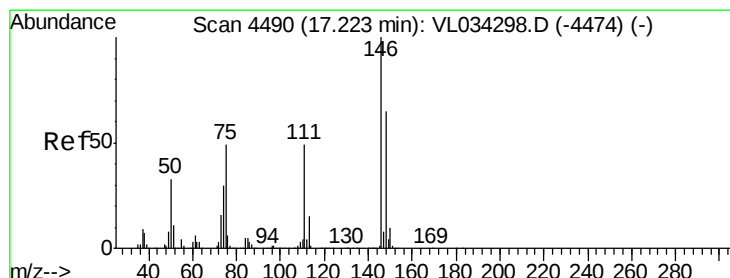
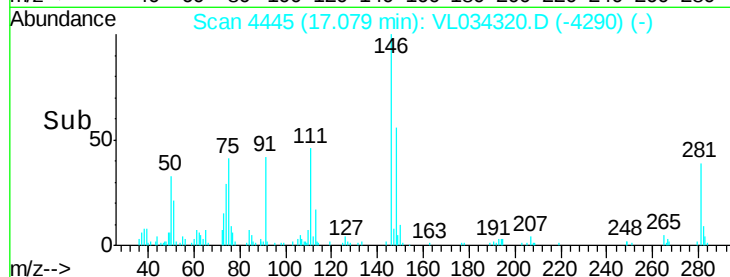
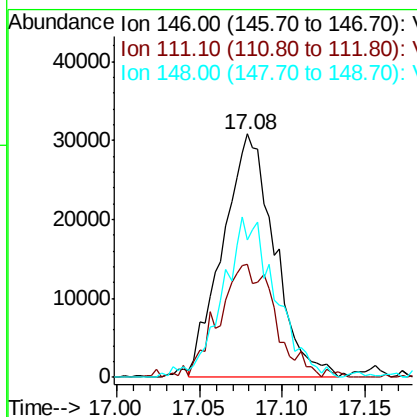
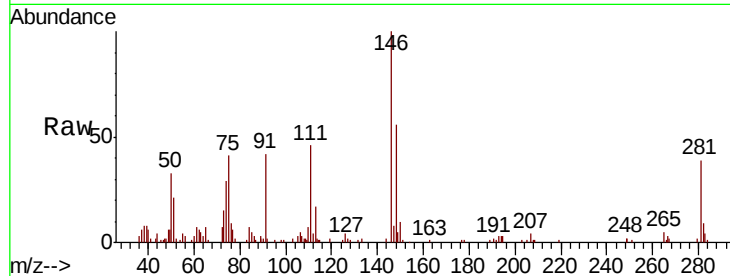
ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:	146	Resp:	67070
Ion Ratio	Lower	Upper	
146	100		
111	51.0	24.5	73.5
148	67.4	32.3	96.8

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#76

1,4-Dichlorobenzene

Concen: 0.419 ppbv m

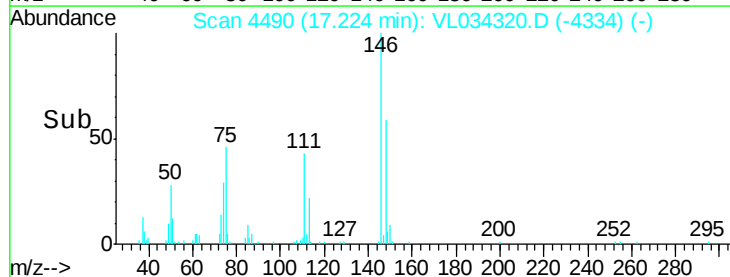
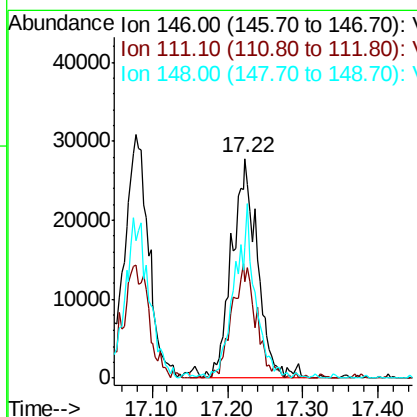
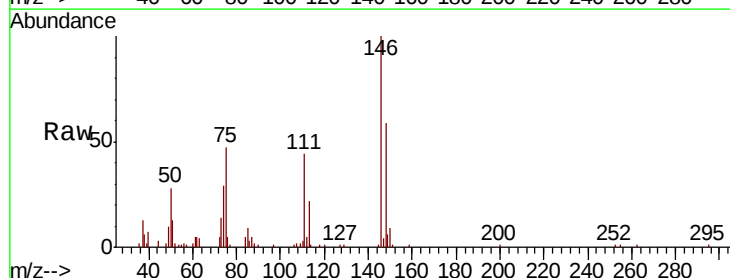
RT: 17.22 min Scan# 4490

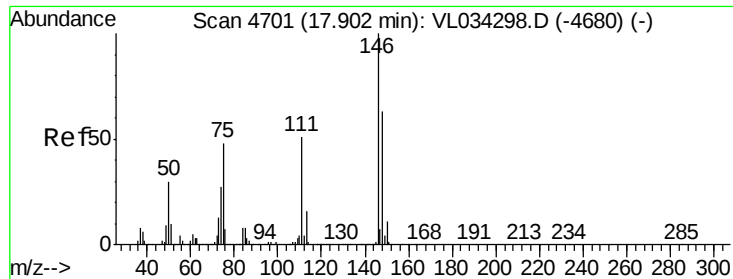
Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion:	146	Resp:	66316
Ion Ratio	Lower	Upper	
146	100		
111	48.7	23.9	71.7
148	62.5	33.1	99.2





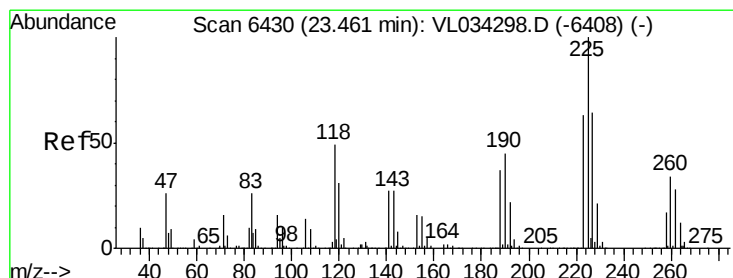
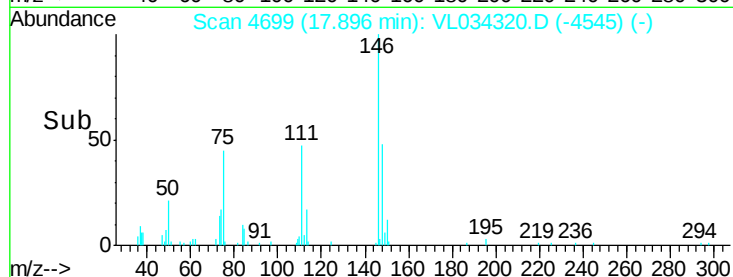
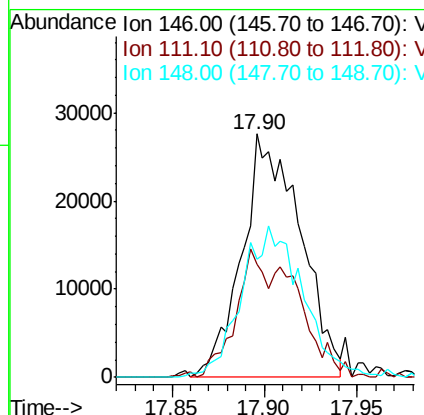
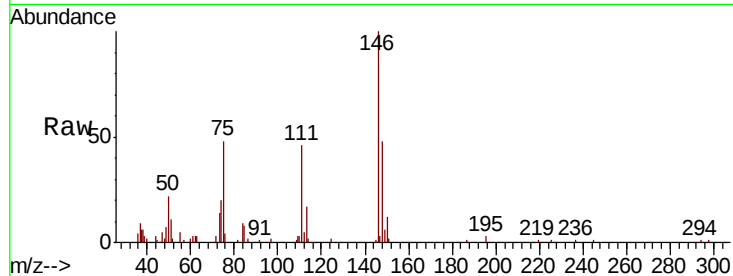
#77
 1,2-Dichlorobenzene
 Concen: 0.381 ppbv
 RT: 17.90 min Scan# 4699
 Delta R.T. -0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	55.6	25.1	75.3
148	65.6	32.3	96.8

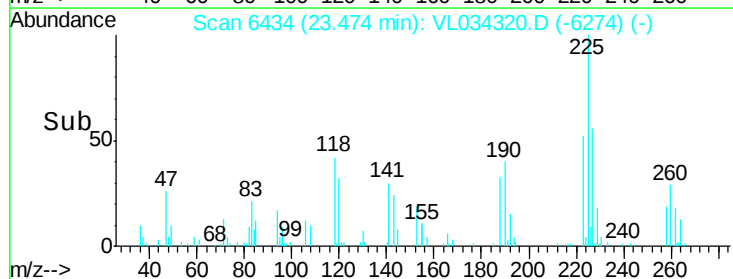
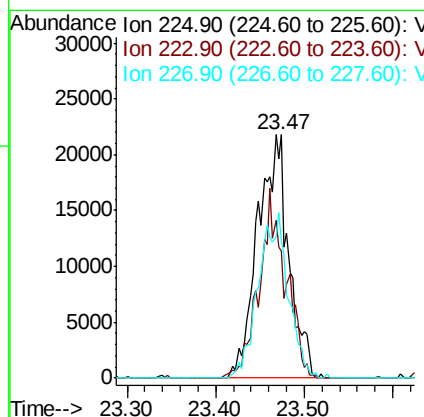
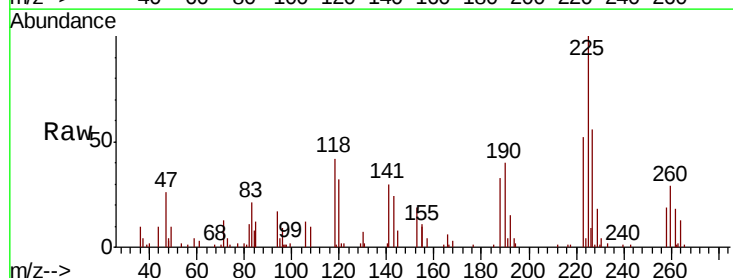
Manual Integrations
 APPROVED

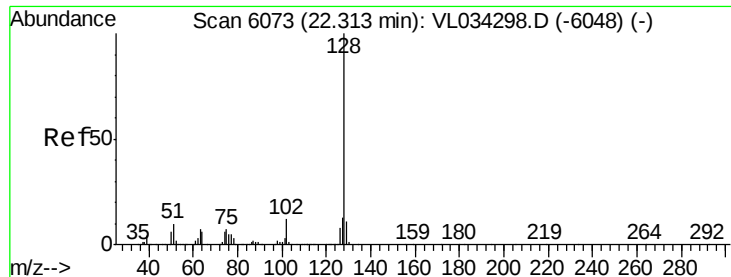
MMDadoda
 10/22/2019 2:54:48 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.405 ppbv m
 RT: 23.47 min Scan# 6434
 Delta R.T. 0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.2	50.8	76.2
227	0.0	51.5	77.3#





#79

Naphthalene

Concen: 0.256 ppbv m

RT: 22.31 min Scan# 6073

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

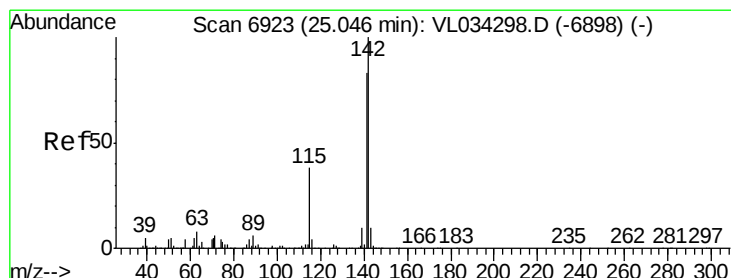
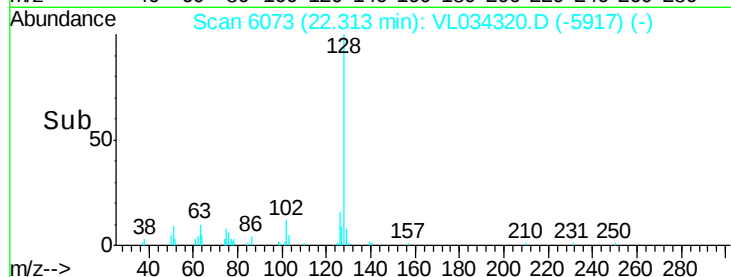
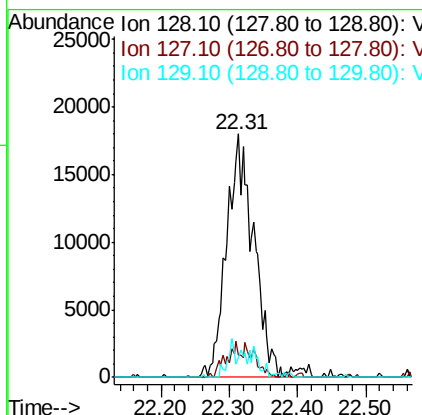
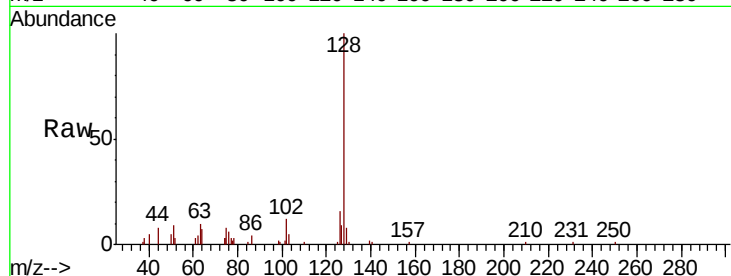
ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tot Ion:	128	Resp:	50575
Ion Ratio		Lower	Upper
128	100		
127	9.0	10.2	15.4#
129	7.8	8.9	13.3#

Manual Integrations
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10/22/2019 2:54:48 PM



#80

Naphthalene, 2-methyl-

Concen: 0.166 ppbv

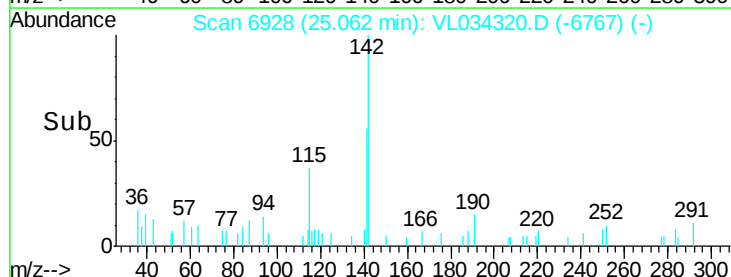
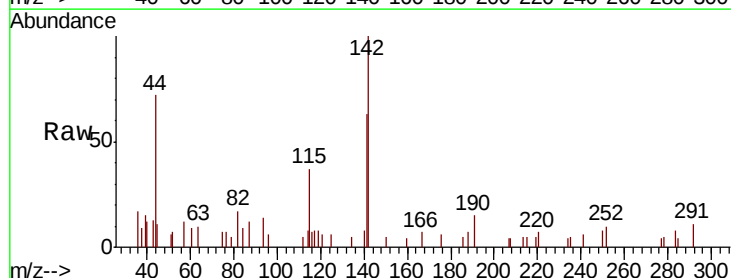
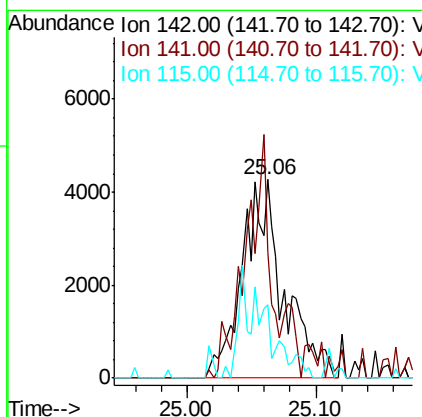
RT: 25.06 min Scan# 6928

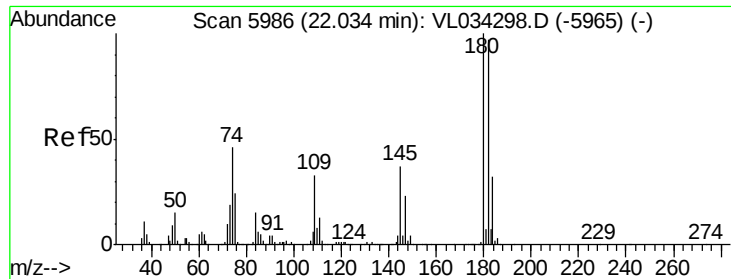
Delta R.T. 0.02 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion:	142	Resp:	9489
Ion Ratio		Lower	Upper
142	100		
141	85.8	65.7	98.5
115	39.6	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.360 ppbv m
 RT: 22.03 min Scan# 5986
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
180	100	46417		
182	0.0	77.8	116.8#	
184	0.0	25.4	38.2#	

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:54:48 PM

