

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034006.D
 Acq On : 3 Jul 2019 9:46
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:47 PM

Quant Time: Jul 03 10:23:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03 10:23:48 2019
 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	1010961	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2606158	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	3143258m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2315680	8.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	86.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	1605193	7.694 ppbv	97
3) Chlorodifluoromethane	3.00	51	1239192	9.926 ppbv	99
4) Chloromethane	3.16	50	701753	9.776 ppbv	100
5) Vinyl Chloride	3.27	62	766606	9.497 ppbv	92
6) Bromomethane	3.49	94	490584	10.306 ppbv	98
7) Chloroethane	3.58	64	299262	10.373 ppbv	100
8) Dichlorotetrafluoroethane	3.20	85	2020691	9.934 ppbv	99
9) Propene	3.02	41	451294	9.827 ppbv	98
10) Heptane	8.22	43	1256557	10.928 ppbv	99
11) Trichlorofluoromethane	3.98	101	2185956	9.318 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1608505	9.687 ppbv	98
13) Ethanol	3.63	45	137044m	9.606 ppbv	
14) Bromoethene	3.77	108	687194	11.082 ppbv	99
15) Acetone	3.88	43	1437366	8.456 ppbv	99
16) 1,3-Butadiene	3.35	39	654935	10.912 ppbv	99
17) tert-Butyl alcohol	4.34	59	1464911	10.810 ppbv	98
18) 1,1-Dichloroethene	4.33	96	728621	9.852 ppbv	94
19) Isopropyl Alcohol	4.00	45	1144559	10.032 ppbv	99
20) Methylene Chloride	4.39	84	647693	8.737 ppbv	98
21) Allyl Chloride	4.46	41	1072714	10.122 ppbv	98
22) trans-1,2-Dichloroethene	4.94	96	749853	10.641 ppbv	98
23) Vinyl Acetate	5.13	43	1831603	10.796 ppbv	99
24) 1,1-Dichloroethane	5.07	63	1506285	10.018 ppbv	98
25) Ethyl Acetate	5.74	43	2427884	10.444 ppbv	100
26) Hexane	5.75	57	1087578	10.223 ppbv	98
27) Carbon Disulfide	4.60	76	1942526	10.741 ppbv	99
28) Methyl tert-Butyl Ether	5.08	73	1947479	10.809 ppbv	99
29) Chloroform	5.82	83	1985984	9.933 ppbv	97
30) Cyclohexane	7.22	84	914490	11.131 ppbv	97
31) cis-1,2-Dichloroethene	5.62	61	1149926	11.188 ppbv	96
32) 1,1,1-Trichloroethane	6.59	97	1938667	9.567 ppbv	99
34) 2-Butanone	5.30	43	1461740	10.598 ppbv	100
35) Carbon Tetrachloride	7.10	117	2063225	10.000 ppbv	99
36) Benzene	6.98	78	2202920	10.803 ppbv	97
37) 1,2-Dichloroethane	6.38	62	1520602	10.122 ppbv	100
38) Trichloroethene	7.93	130	999301	11.013 ppbv	96
39) 1,2-Dichloropropane	7.70	63	806021	10.629 ppbv	99
40) 1,4-Dioxane	7.93	88	349962	9.996 ppbv	# 98
41) Tetrahydrofuran	6.12	42	785263	11.609 ppbv	99
42) Bromodichloromethane	7.88	83	2110989	10.473 ppbv	95
43) Methyl Methacrylate	8.10	69	905078	11.698 ppbv	98

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	3725306	10.583	ppbv	99
45) t-1,3-Dichloropropene	9.38	75	1340242	13.247	ppbv	100
46) cis-1,3-Dichloropropene	8.80	75	1467947	12.528	ppbv	97
47) 1,1,2-Trichloroethane	9.58	97	1024522	10.746	ppbv	96
48) Dibromochloromethane	10.42	129	1892526	10.403	ppbv	99
49) Bromoform	13.17	173	1893621	12.184	ppbv	99
50) 4-Methyl-2-Pentanone	8.84	43	2300681	11.241	ppbv	99
51) 2-Hexanone	10.24	43	1883784	11.412	ppbv #	99
52) Tetrachloroethene	11.34	164	1027625	11.708	ppbv	97
53) Toluene	9.91	91	2905523	12.447	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1589666	11.298	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.24	131	1342183	9.554	ppbv	99
57) Chlorobenzene	12.26	112	2363908	9.446	ppbv	95
58) Ethyl Benzene	12.83	91	4145887	10.968	ppbv	98
59) m/p-Xylene	13.11	91	6911905m	20.195	ppbv	
60) o-Xylene	13.81	91	3459328	10.104	ppbv	99
61) Styrene	13.65	104	2569098	11.338	ppbv	100
62) Isopropylbenzene	14.79	105	4587785	8.716	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.80	83	2373279	8.955	ppbv	100
64) n-propylbenzene	15.69	120	1163145	8.522	ppbv	97
65) tert-Butylbenzene	16.88	119	4182965	9.346	ppbv	100
66) Benzyl Chloride	17.12	91	2329955	10.174	ppbv	100
67) sec-Butylbenzene	17.42	105	5923724	9.429	ppbv	100
69) p-Isopropyltoluene	17.78	119	4918932	9.496	ppbv	99
70) n-Butylbenzene	18.68	91	4944651	9.087	ppbv	98
71) 2-Chlorotoluene	15.58	91	3453083	8.964	ppbv	100
72) 4-Ethyltoluene	15.97	105	4004653	9.108	ppbv	99
73) 1,3,5-Trimethylbenzene	16.12	105	3864174	9.445	ppbv	97
74) 1,2,4-Trimethylbenzene	16.89	105	4079349	9.003	ppbv #	88
75) 1,3-Dichlorobenzene	17.13	146	2456643	8.535	ppbv	99
76) 1,4-Dichlorobenzene	17.27	146	2435293	8.983	ppbv	99
77) 1,2-Dichlorobenzene	17.95	146	2313397	8.680	ppbv	99
78) Hexachloro-1,3-Butadiene	23.51	225	2145030	9.458	ppbv	98
79) Naphthalene	22.37	128	3761441	9.873	ppbv	98
80) Naphthalene, 2-methyl-	25.09	142	2003060	14.449	ppbv	97
81) 1,2,4-Trichlorobenzene	22.09	180	2240439	9.157	ppbv	99

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

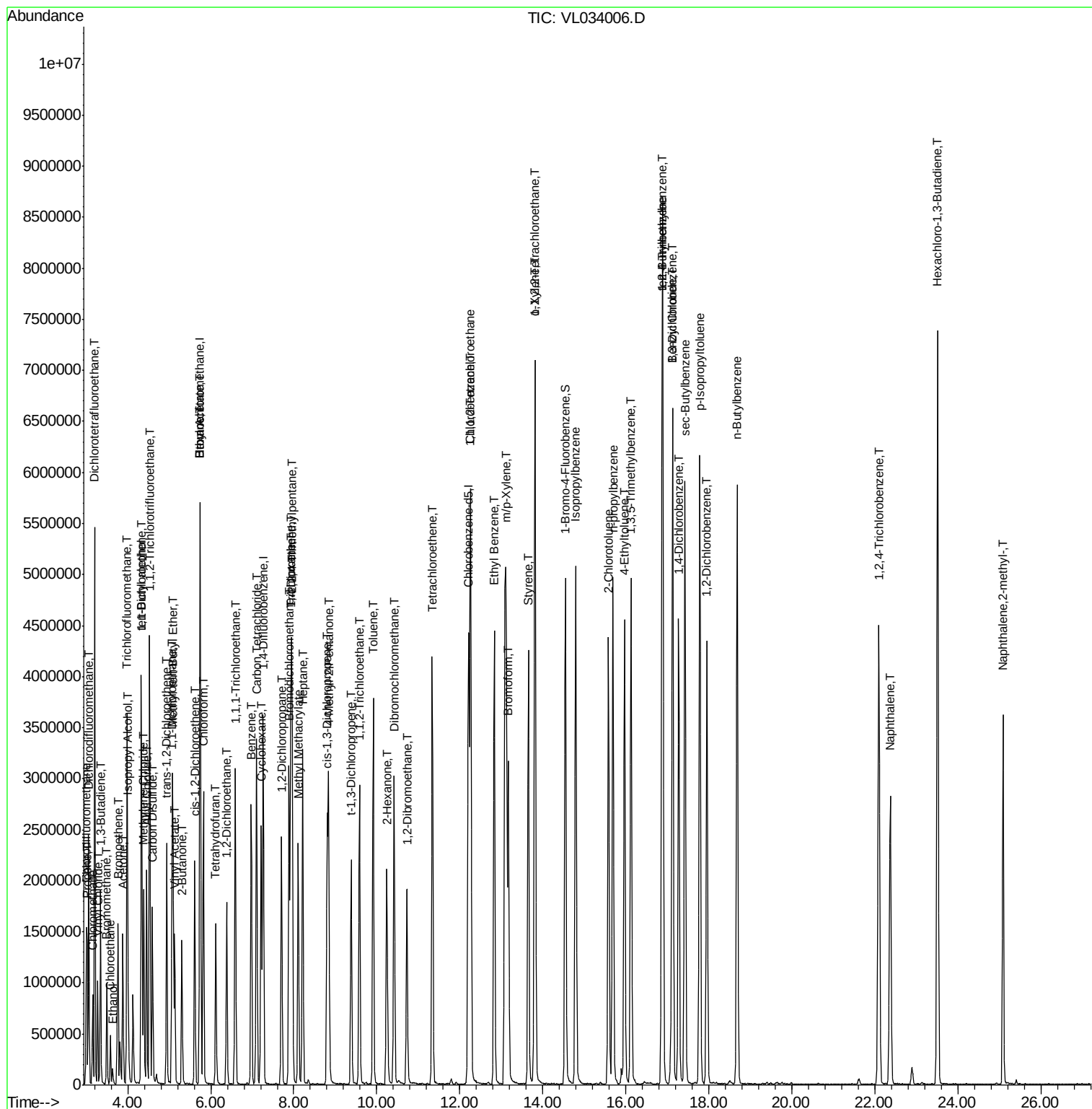
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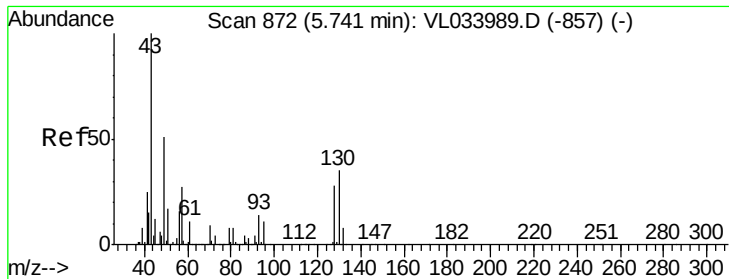
Instrument :
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QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1010961

Ion Ratio Lower Upper

49 100

128 57.6 27.9 83.6

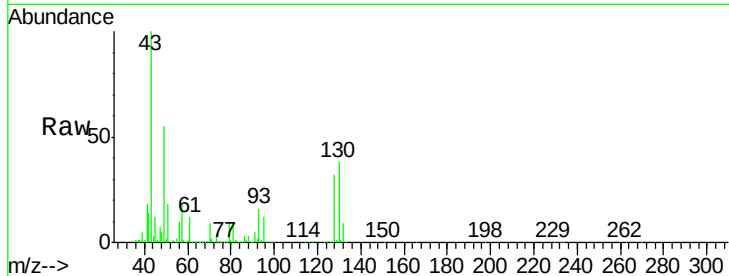
130 73.4 35.8 107.4

Manual Integrations

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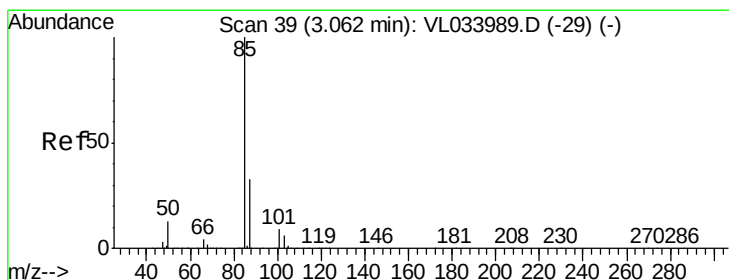
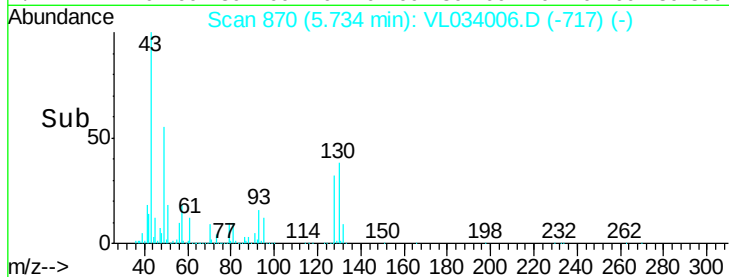
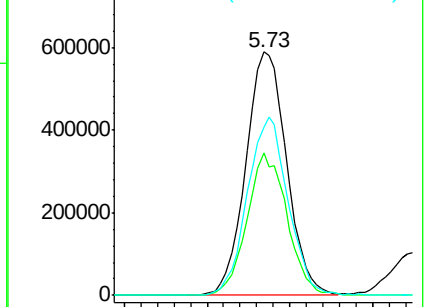
7/3/2019 11:03:47 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 7.694 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.00 min

Lab File: VL034006.D

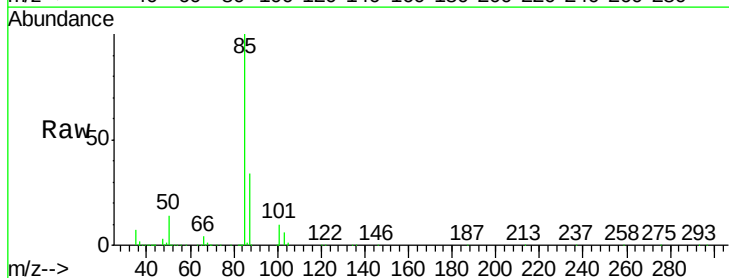
Acq: 3 Jul 2019 9:46

Tgt Ion: 85 Resp: 1605193

Ion Ratio Lower Upper

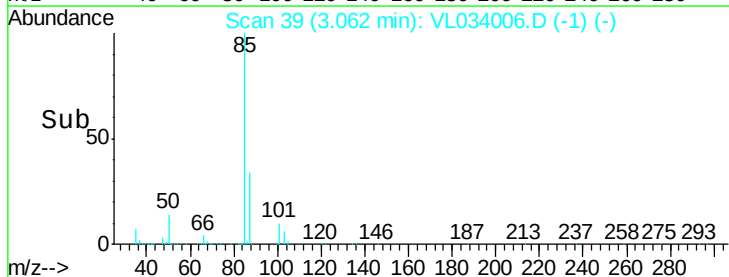
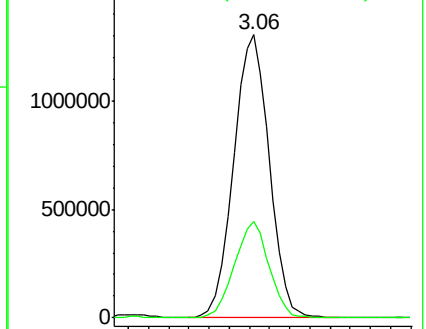
85 100

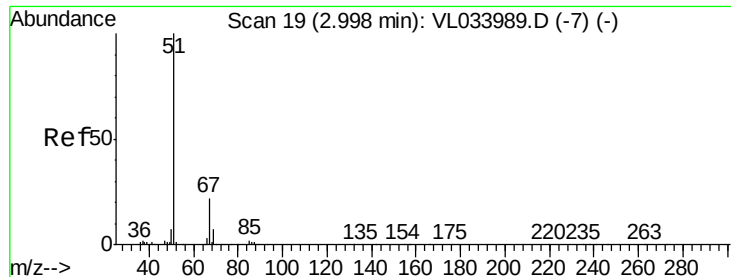
87 33.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.926 ppbv

RT: 3.00 min Scan# 19

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Tot Ion: 51 Resp: 1239192

Ion Ratio Lower Upper

51 100

67 22.1 17.3 25.9

Instrument :

MSVOA_L

ClientSampleId :

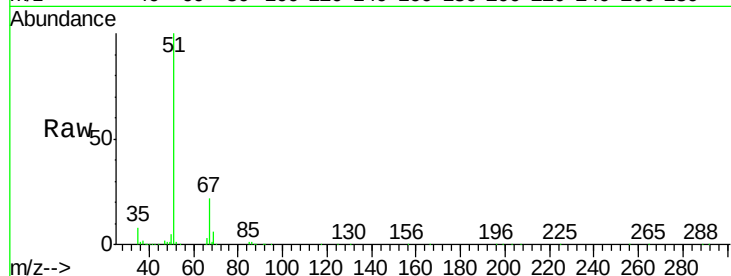
VSTDCCC010EC

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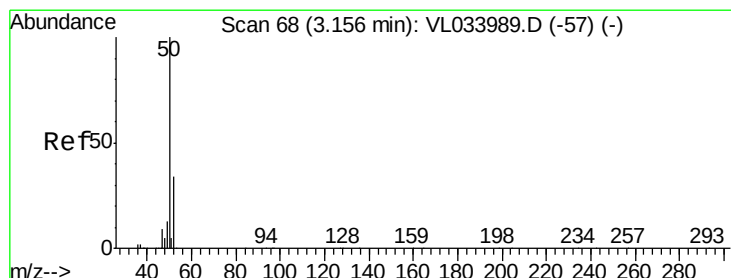
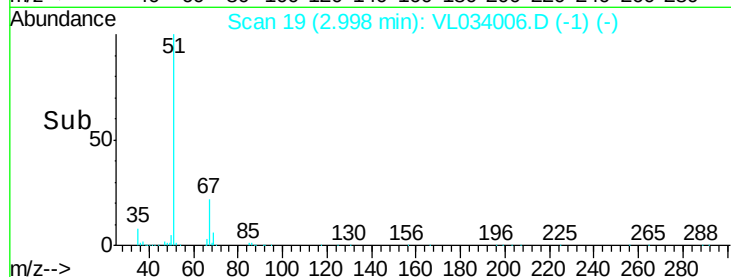
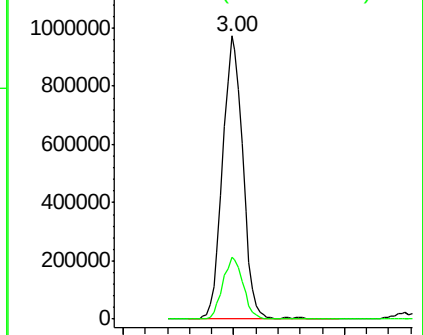
MMDadoda

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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: 9.776 ppbv

RT: 3.16 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL034006.D

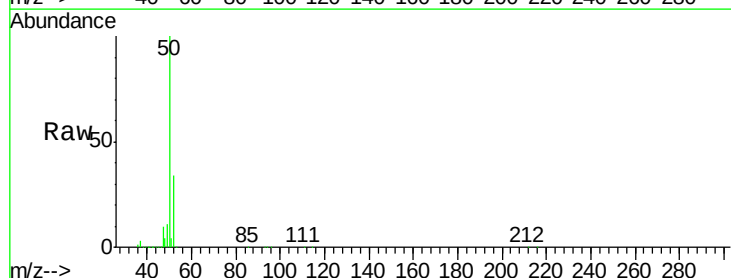
Acq: 3 Jul 2019 9:46

Tgt Ion: 50 Resp: 701753

Ion Ratio Lower Upper

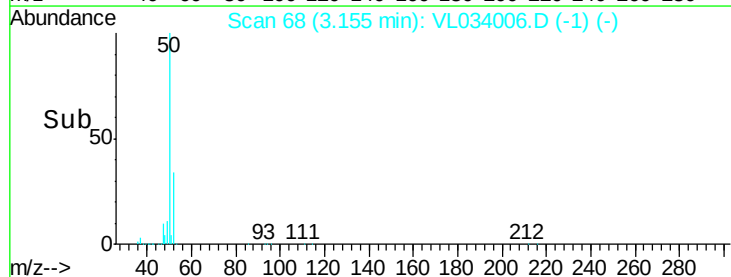
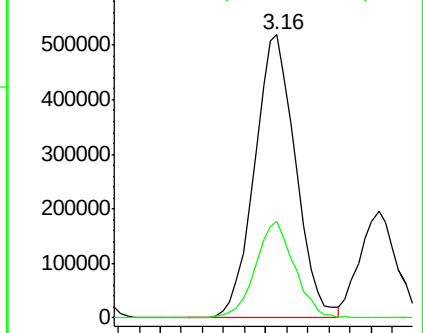
50 100

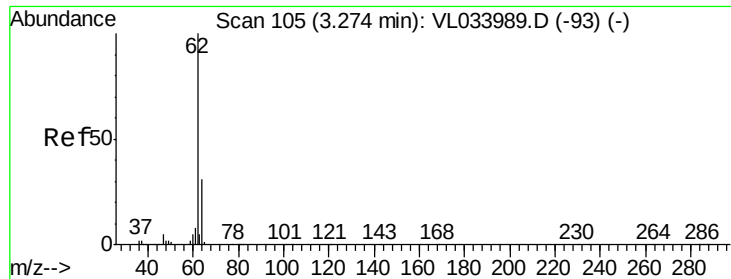
52 34.3 27.4 41.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.497 ppbv

RT: 3.27 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 766606

Ion Ratio Lower Upper

62 100

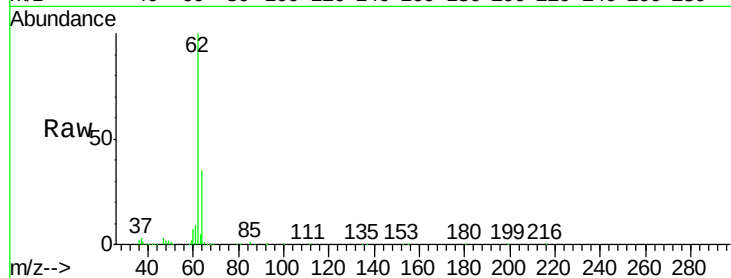
64 34.7 24.4 36.6

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.27

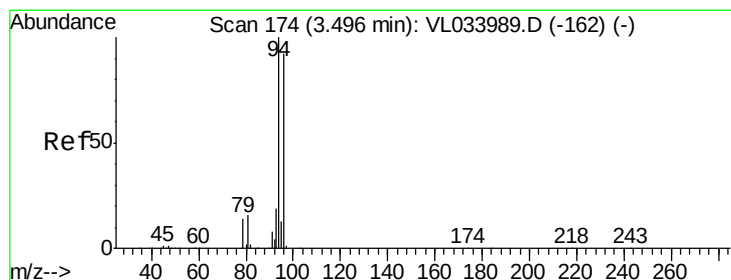
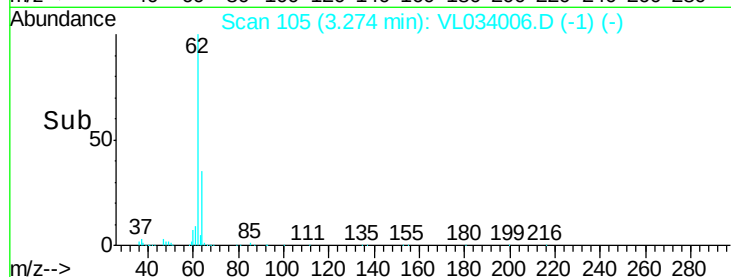
600000

400000

200000

0

Time--> 3.20 3.25 3.30 3.35



#6

Bromomethane

Concen: 10.306 ppbv

RT: 3.49 min Scan# 173

Delta R.T. -0.00 min

Lab File: VL034006.D

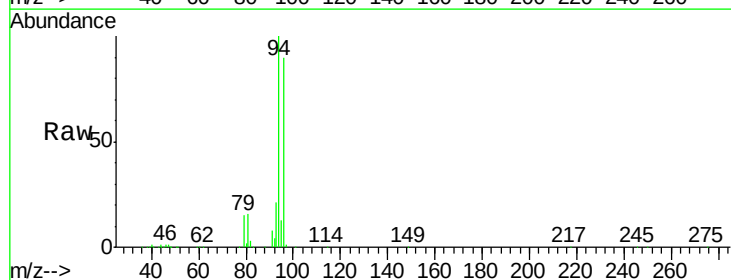
Acq: 3 Jul 2019 9:46

Tgt Ion: 94 Resp: 490584

Ion Ratio Lower Upper

94 100

96 90.0 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.49

400000

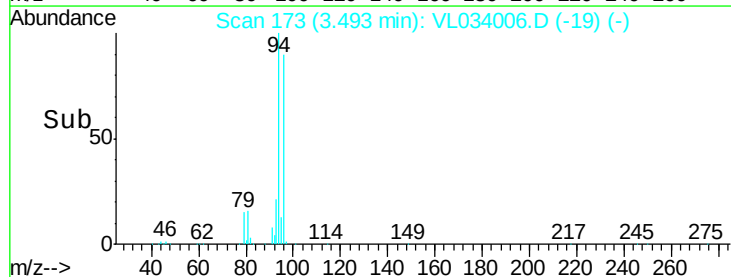
300000

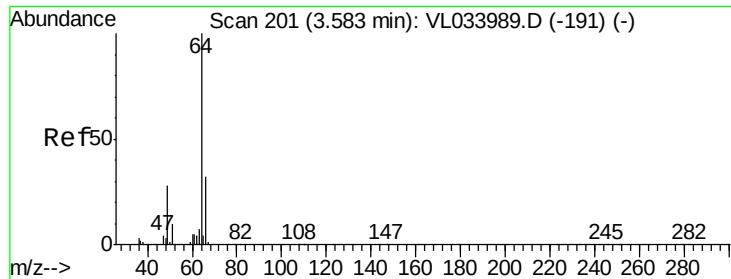
200000

100000

0

Time--> 3.45 3.50 3.55





#7

Chloroethane

Concen: 10.373 ppbv

RT: 3.58 min Scan# 201

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 299262

Ion Ratio Lower Upper

64 100

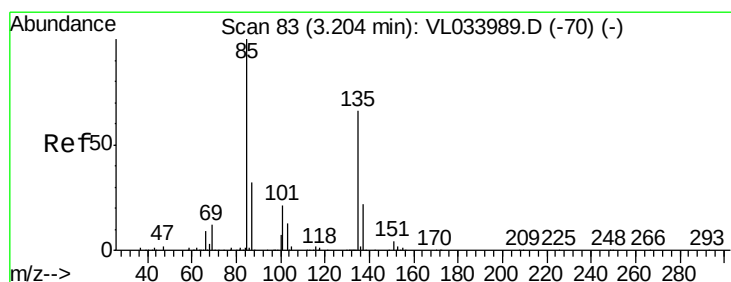
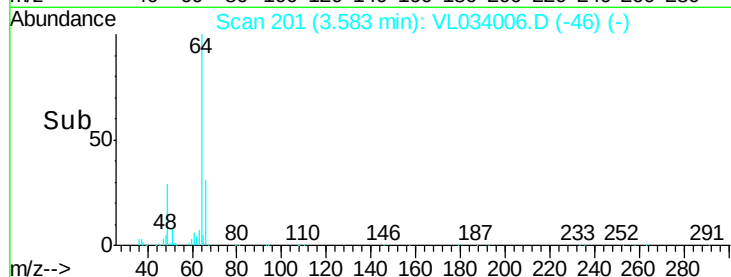
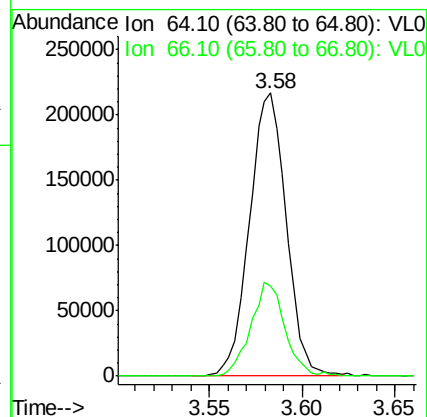
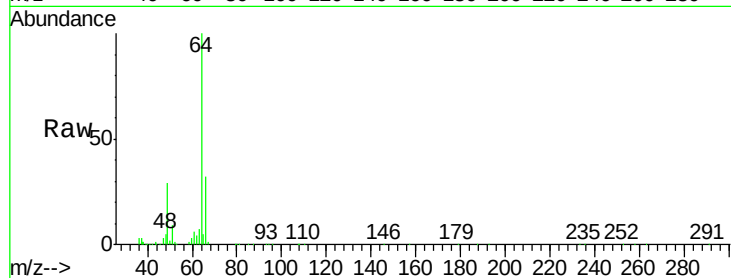
66 31.7 25.3 37.9

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#8

Dichlorotetrafluoroethane

Concen: 9.934 ppbv

RT: 3.20 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL034006.D

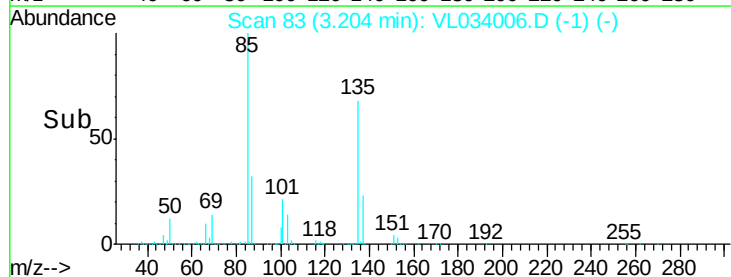
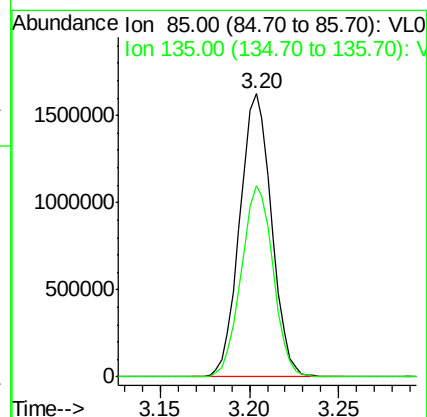
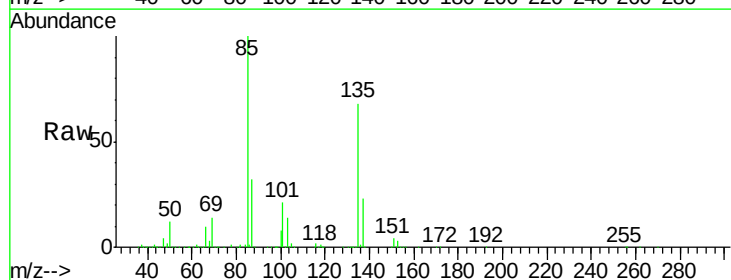
Acq: 3 Jul 2019 9:46

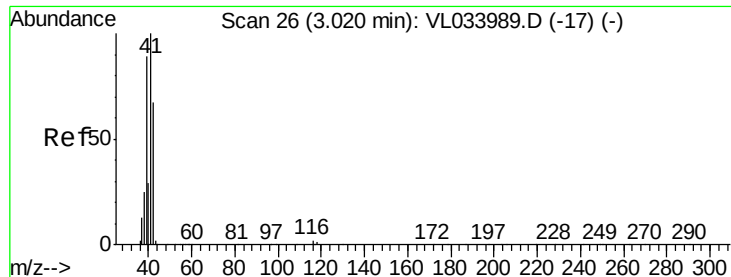
Tgt Ion: 85 Resp: 2020691

Ion Ratio Lower Upper

85 100

135 67.8 55.0 82.4





#9

Propene

Concen: 9.827 ppbv

RT: 3.02 min Scan# 26

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Tot Ion: 41 Resp: 451294

Ion Ratio Lower Upper

41 100

42 69.9 57.1 85.7

Instrument :

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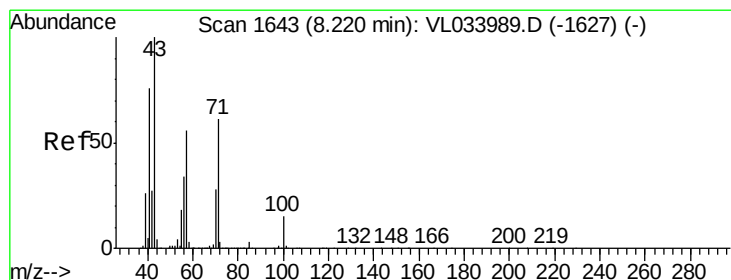
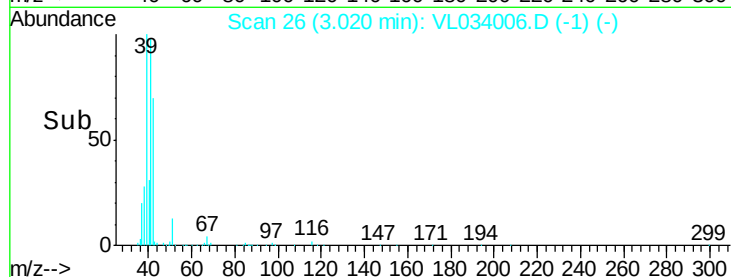
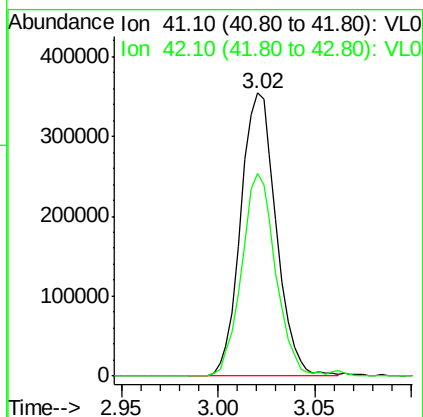
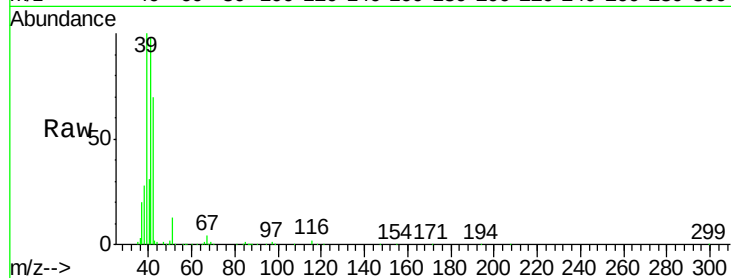
VSTDCCC010EC

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#10

Heptane

Concen: 10.928 ppbv

RT: 8.22 min Scan# 1642

Delta R.T. -0.00 min

Lab File: VL034006.D

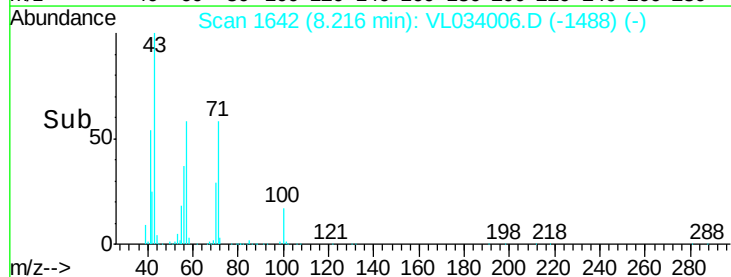
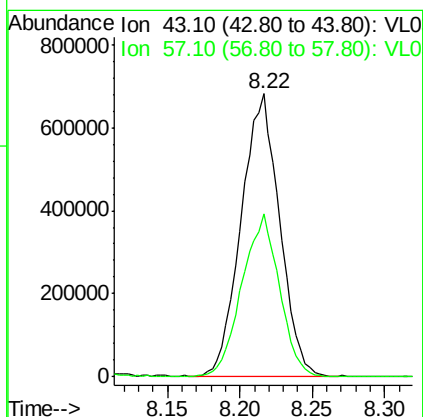
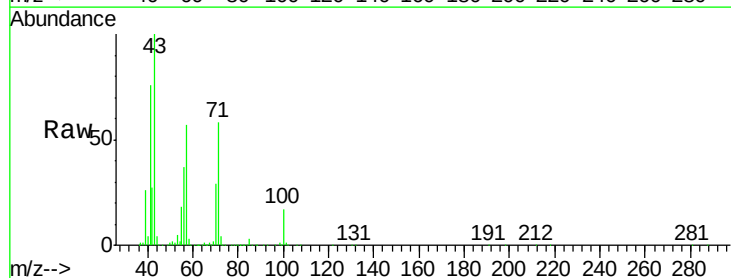
Acq: 3 Jul 2019 9:46

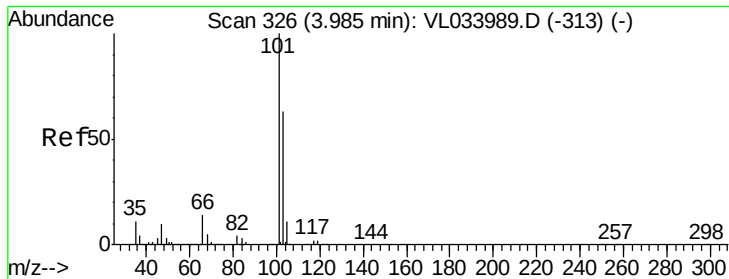
Tgt Ion: 43 Resp: 1256557

Ion Ratio Lower Upper

43 100

57 56.5 44.6 66.8





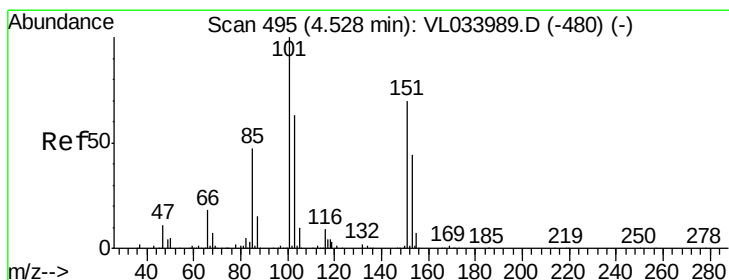
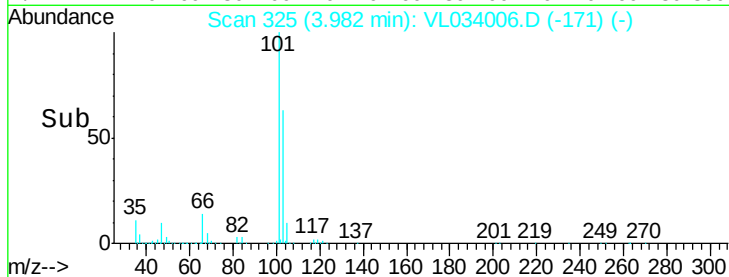
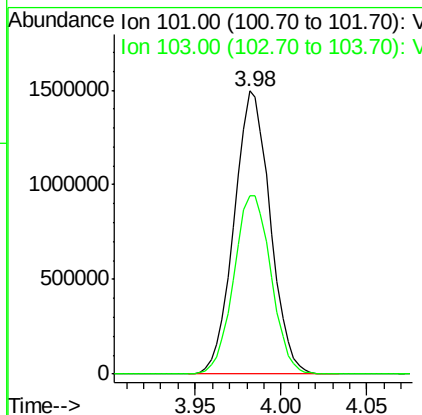
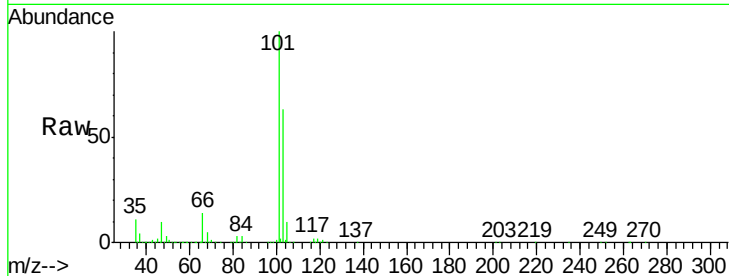
#11
 Trichlorofluoromethane
 Concen: 9.318 ppbv
 RT: 3.98 min Scan# 325
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2185956
 Ion Ratio Lower Upper
 101 100
 103 63.2 50.8 76.2

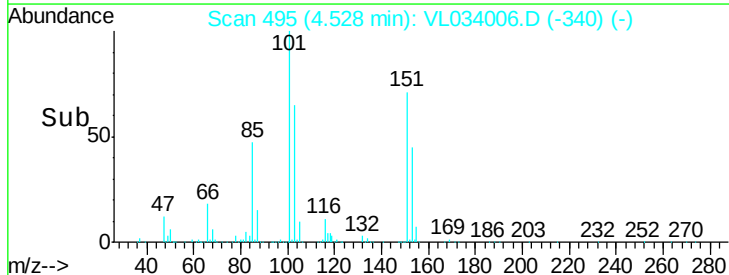
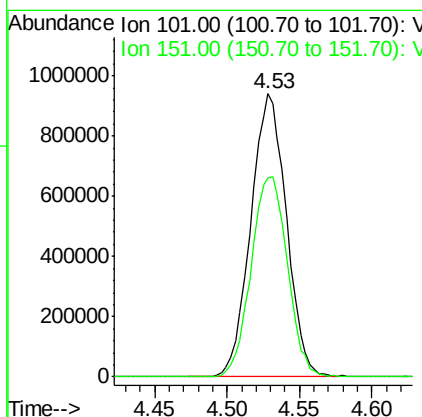
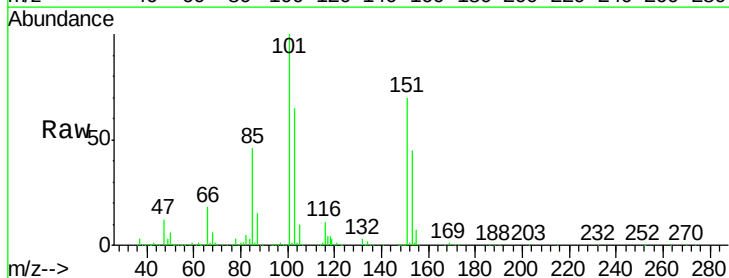
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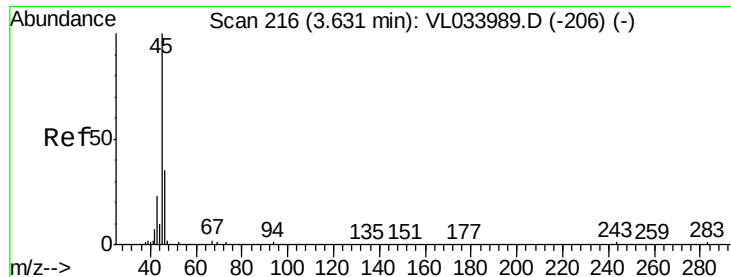
MMDadoda
 7/3/2019 11:03:47 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.687 ppbv
 RT: 4.53 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Tgt Ion:101 Resp: 1608505
 Ion Ratio Lower Upper
 101 100
 151 72.2 59.0 88.4





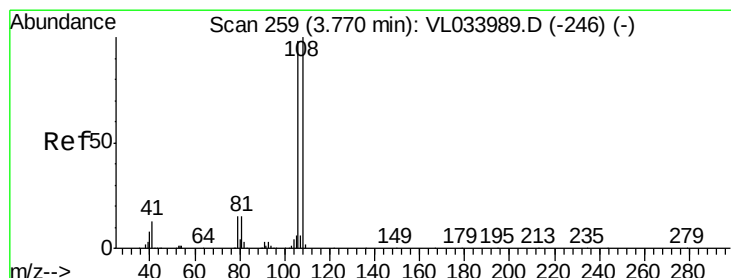
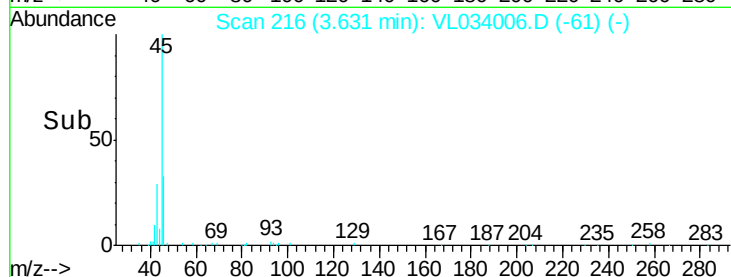
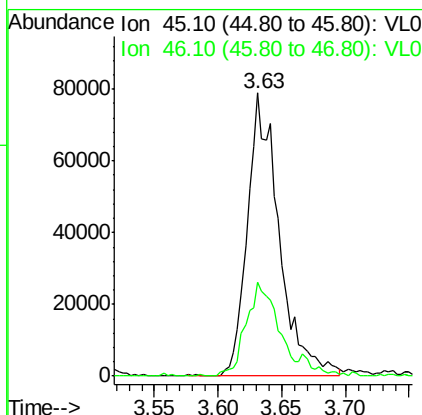
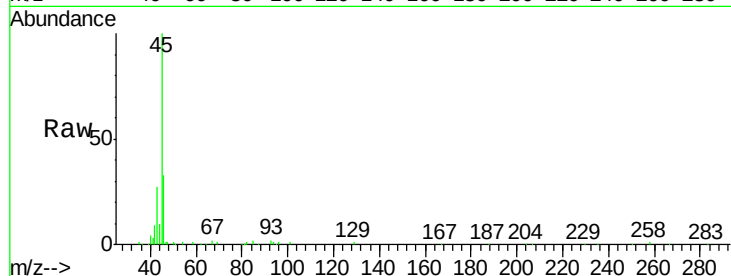
#13
Ethanol
Concen: 9.606 ppbv m
RT: 3.63 min Scan# 216
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	Lower	Upper
137044	100	36.6		16.2	64.6

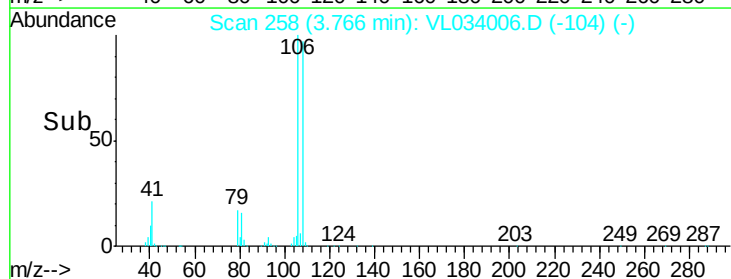
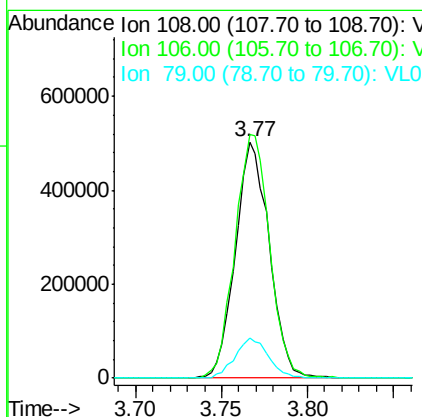
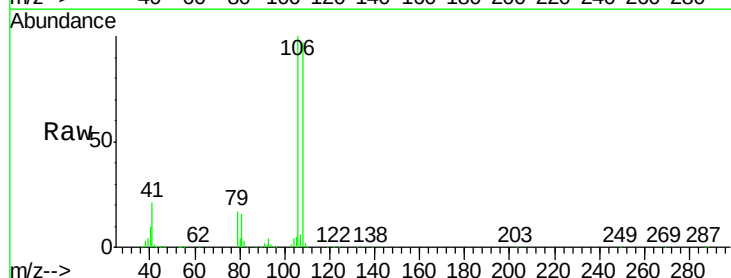
Manual Integrations
APPROVED

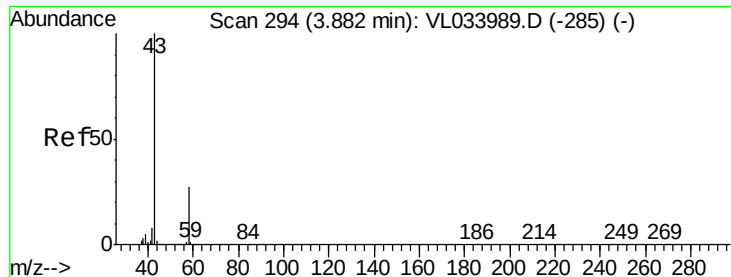
MMDadoda
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#14
Bromoethene
Concen: 11.082 ppbv
RT: 3.77 min Scan# 258
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion	108	106	79	Ratio	Lower	Upper
687194	100	106.0	17.2		85.6	128.4
					14.0	21.0





#15

Acetone

Concen: 8.456 ppbv

RT: 3.88 min Scan# 294

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1437366

Ion Ratio Lower Upper

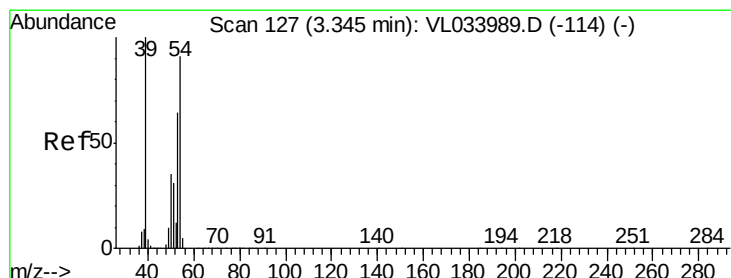
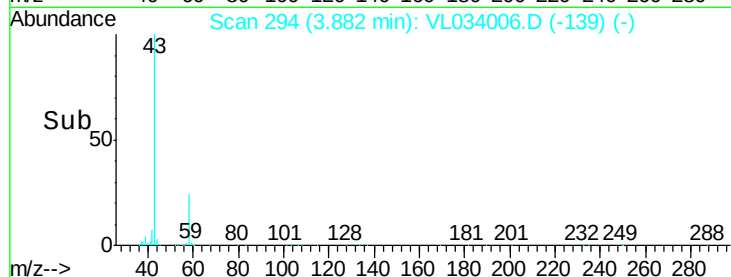
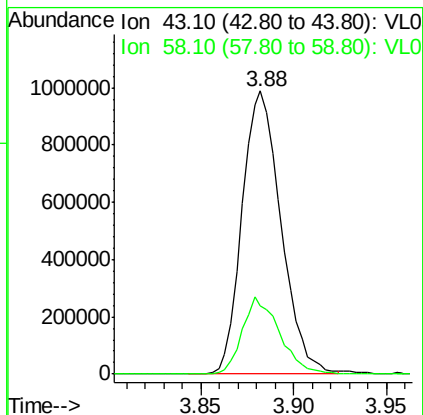
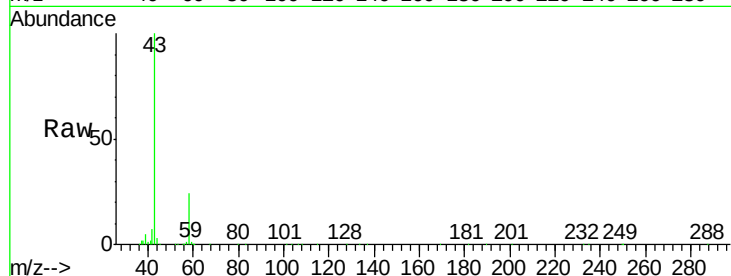
43 100

58 26.2 21.4 32.0

Manual Integrations
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#16

1,3-Butadiene

Concen: 10.912 ppbv

RT: 3.35 min Scan# 127

Delta R.T. -0.00 min

Lab File: VL034006.D

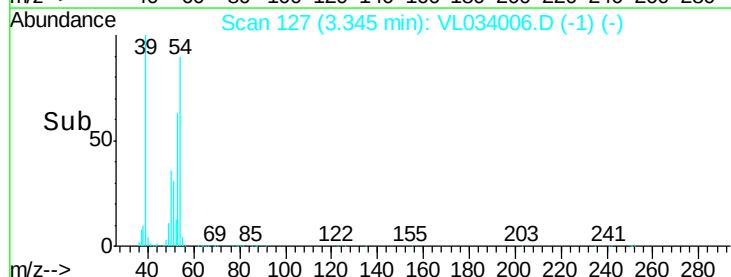
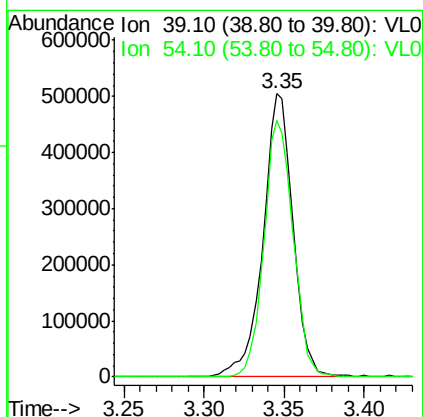
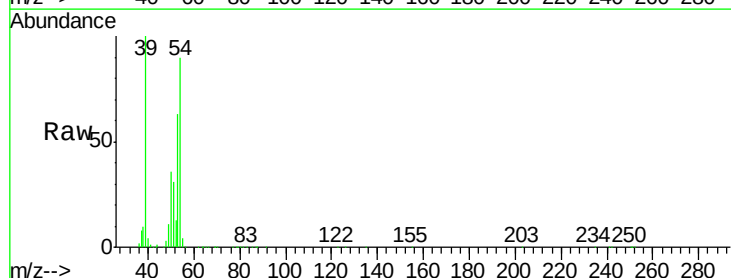
Acq: 3 Jul 2019 9:46

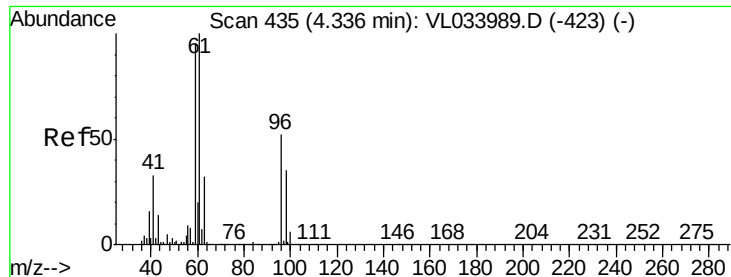
Tgt Ion: 39 Resp: 654935

Ion Ratio Lower Upper

39 100

54 88.3 71.4 107.2





#17

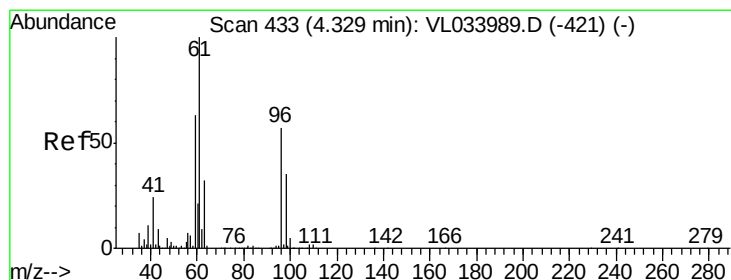
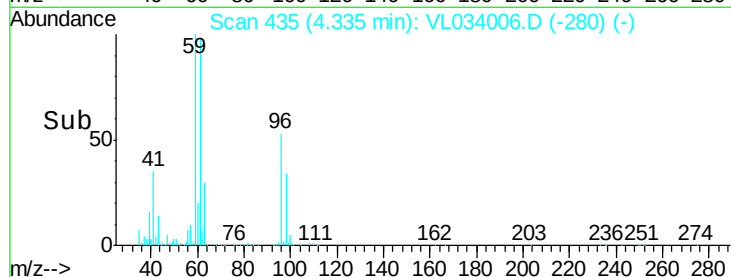
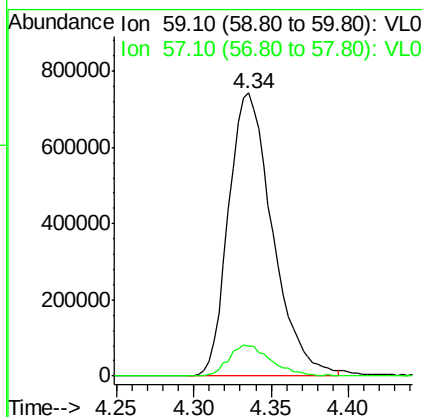
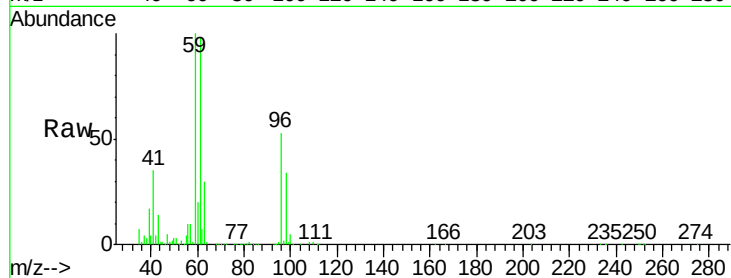
tert-Butyl alcohol
Concen: 10.810 ppbv
RT: 4.34 min Scan# 435
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1464911
Ion Ratio Lower Upper
59 100
57 11.0 8.2 12.2

Manual Integrations
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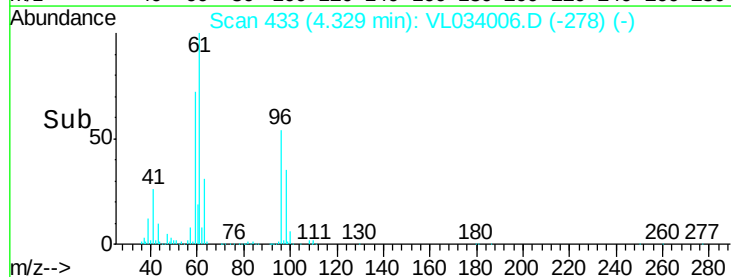
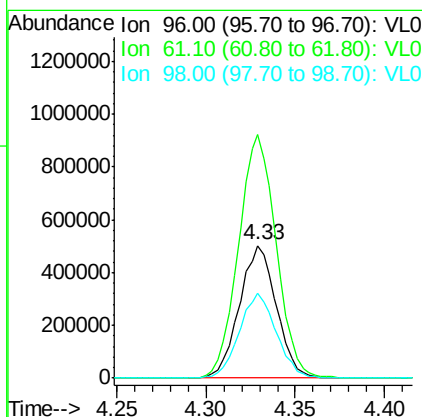
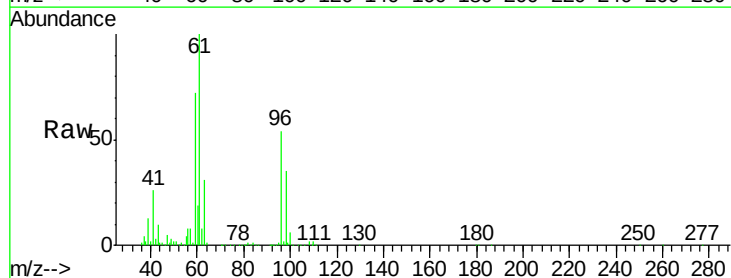
MMDadoda
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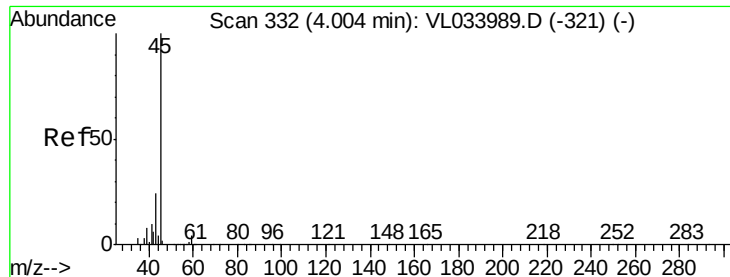


#18

1,1-Dichloroethene
Concen: 9.852 ppbv
RT: 4.33 min Scan# 433
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion: 96 Resp: 728621
Ion Ratio Lower Upper
96 100
61 184.1 139.4 209.0
98 63.8 49.4 74.0





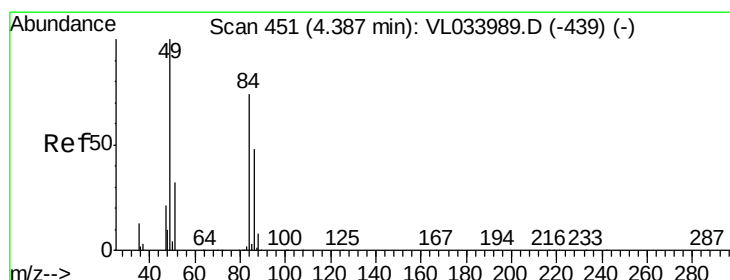
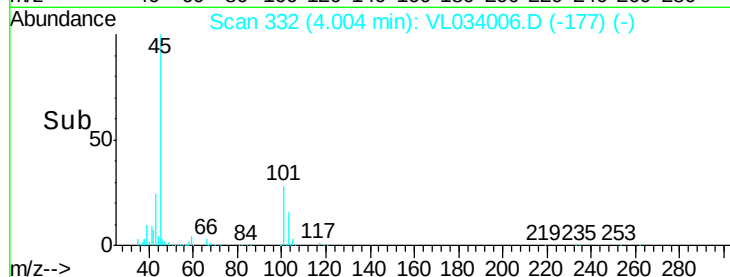
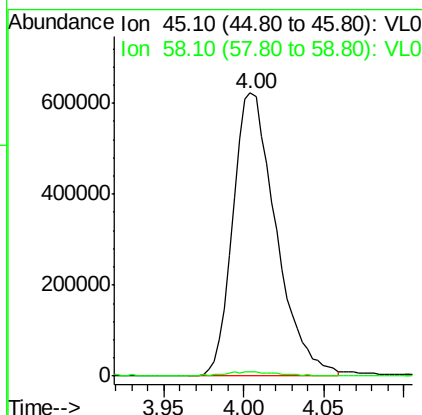
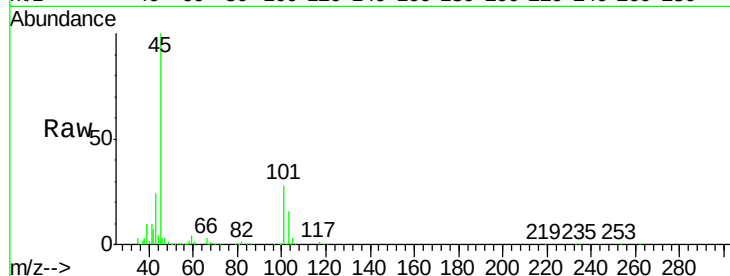
#19
Isopropyl Alcohol
Concen: 10.032 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 1144559
Ion Ratio Lower Upper
45 100
58 2.3 1.7 2.5

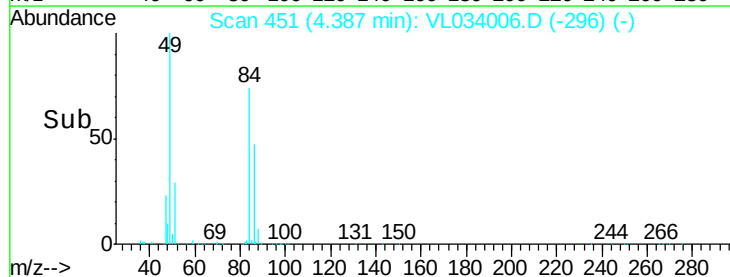
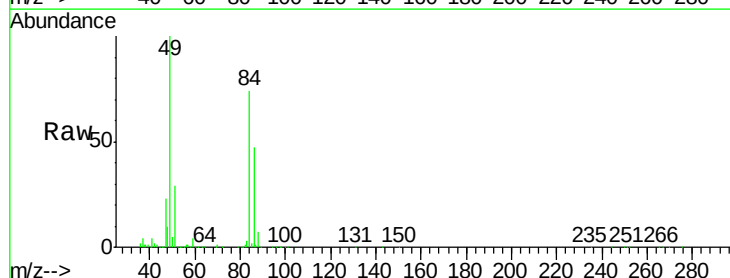
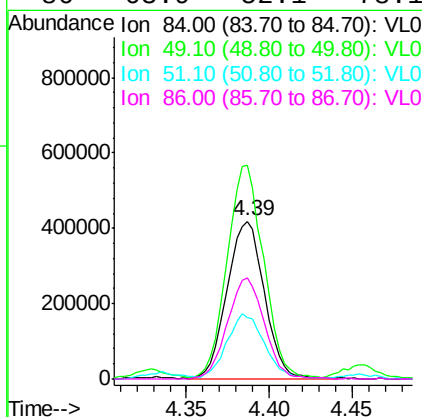
Manual Integrations
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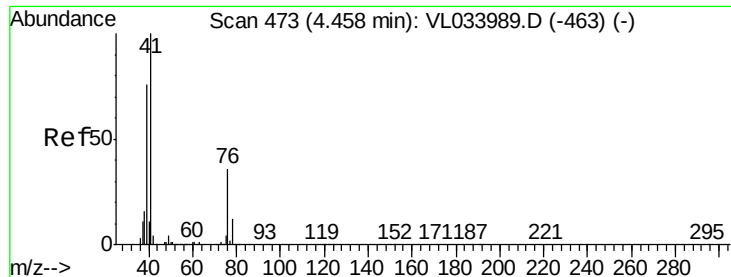
MMDadoda
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#20
Methylene Chloride
Concen: 8.737 ppbv
RT: 4.39 min Scan# 451
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion: 84 Resp: 647693
Ion Ratio Lower Upper
84 100
49 134.8 107.6 161.4
51 37.8 35.0 52.6
86 63.9 52.1 78.1





#21

Allvl Chloride

Concen: 10.122 ppbv

RT: 4.46 min Scan# 473

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

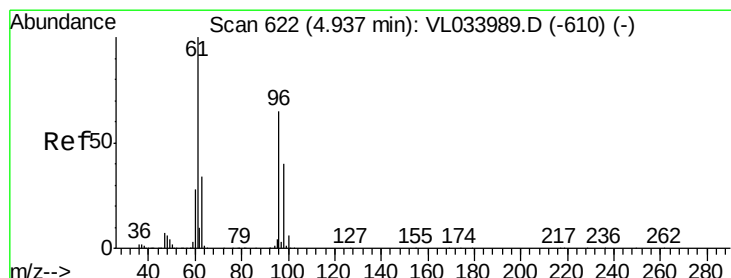
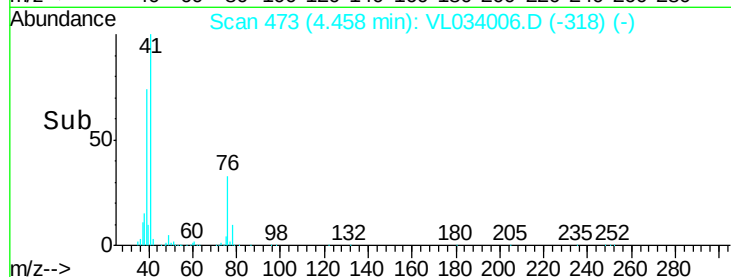
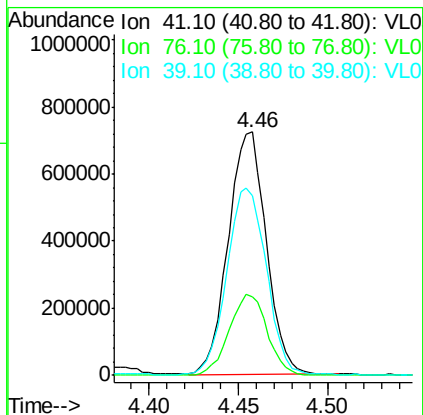
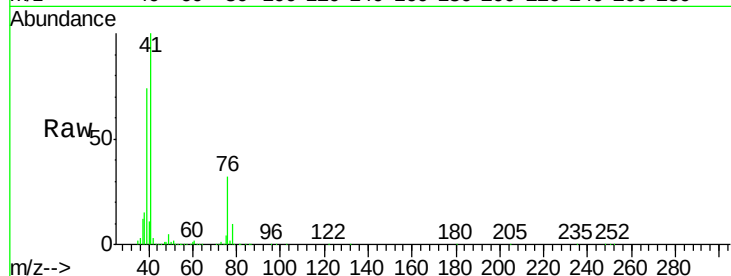
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	1072714
Ion	Ratio	Lower	Upper
41	100		
76	33.8	26.8	40.2
39	80.8	63.1	94.7

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 10.641 ppbv

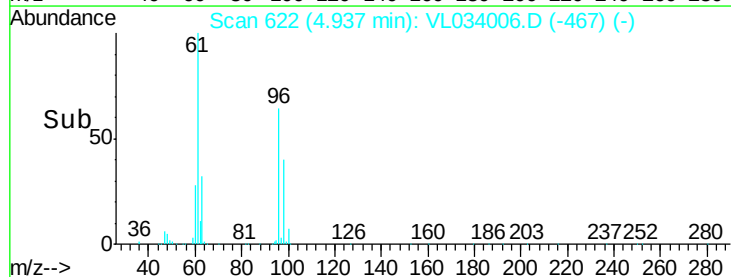
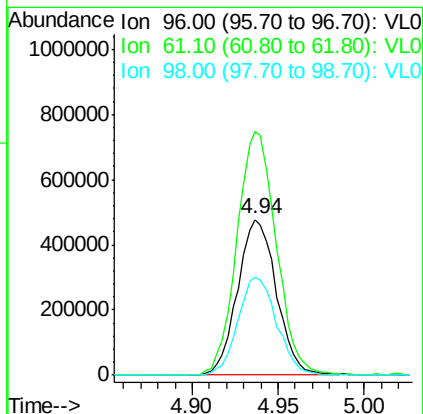
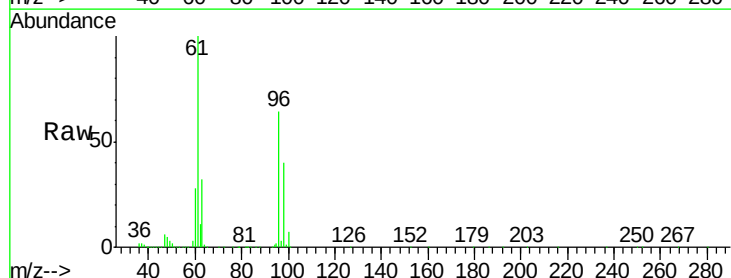
RT: 4.94 min Scan# 622

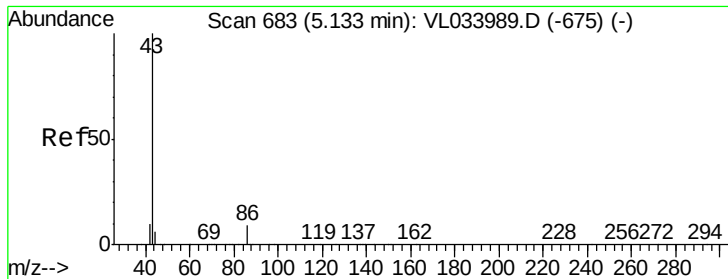
Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Tgt Ion:	96	Resp:	749853
Ion	Ratio	Lower	Upper
96	100		
61	156.2	122.9	184.3
98	62.6	49.6	74.4





#23

Vinyl Acetate

Concen: 10.796 ppbv

RT: 5.13 min Scan# 682

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1831603

Ion Ratio Lower Upper

43 100

86 8.7 6.6 9.8

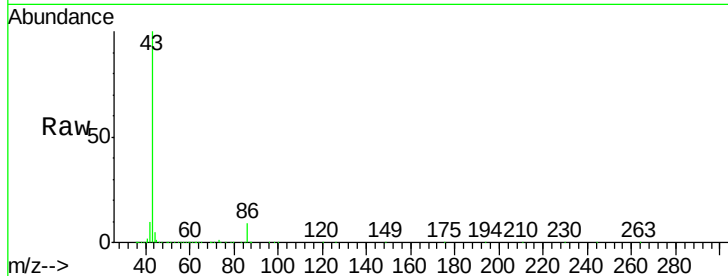
42 10.3 8.3 12.5

44 5.2 4.3 6.5

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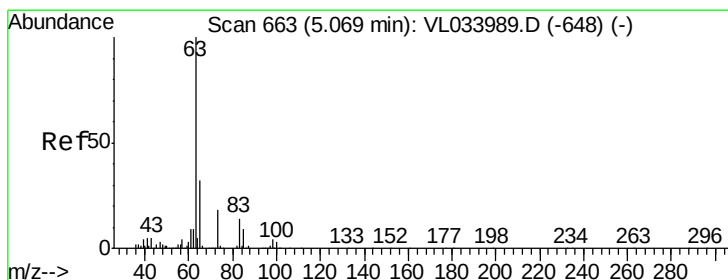
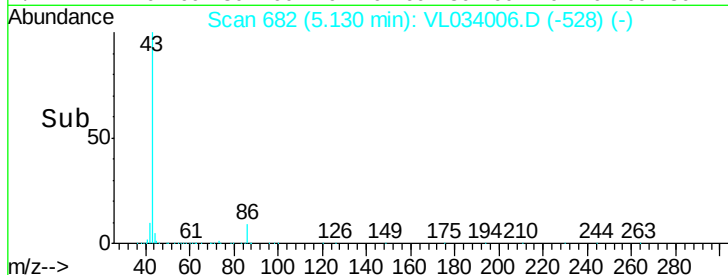
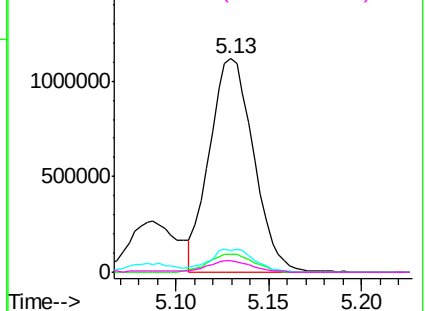


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.018 ppbv

RT: 5.07 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

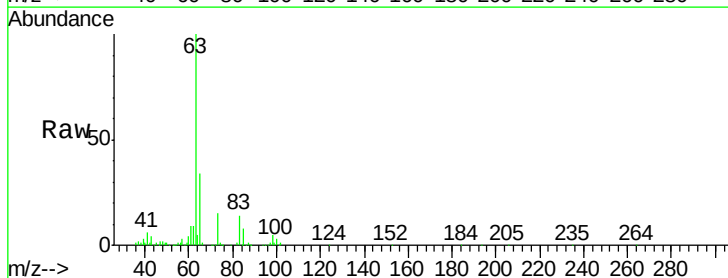
Tgt Ion: 63 Resp: 1506285

Ion Ratio Lower Upper

63 100

98 5.2 2.2 6.6

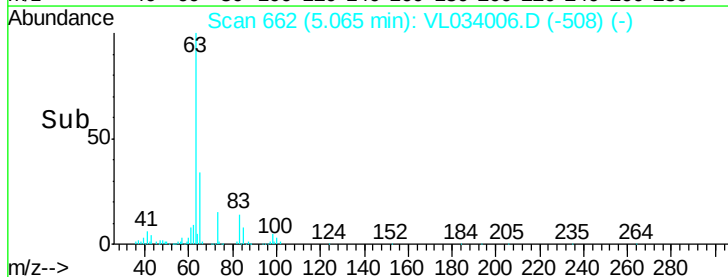
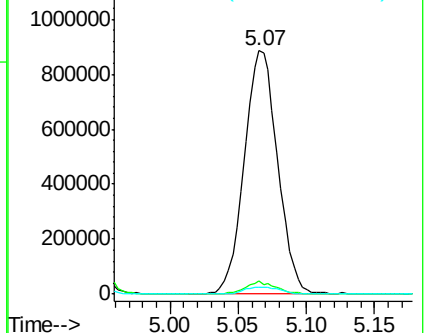
100 2.7 1.4 4.2

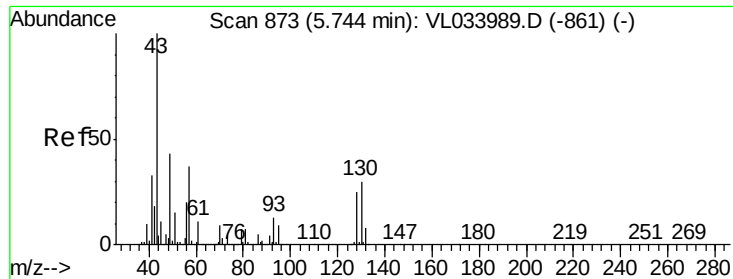


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





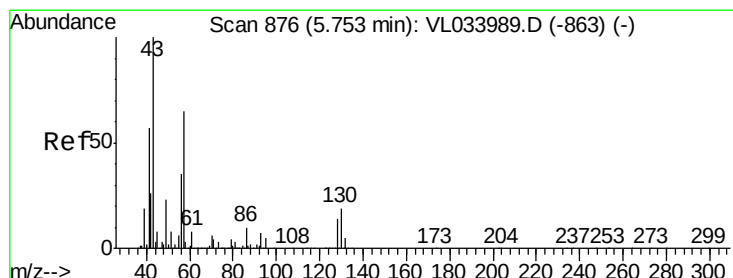
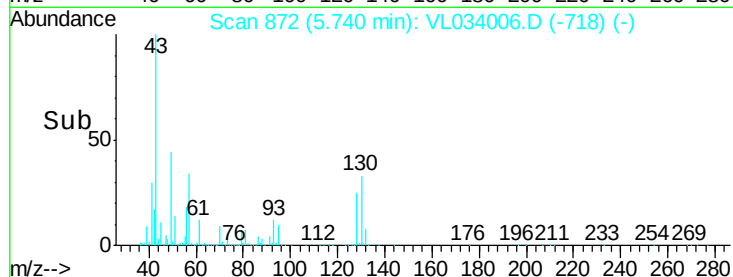
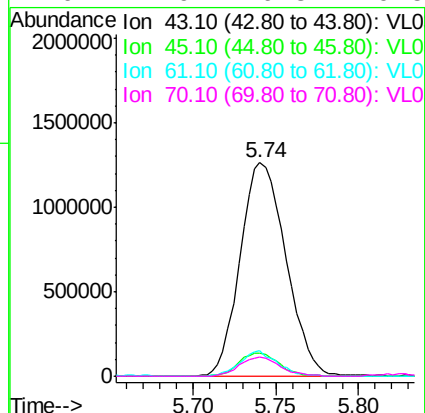
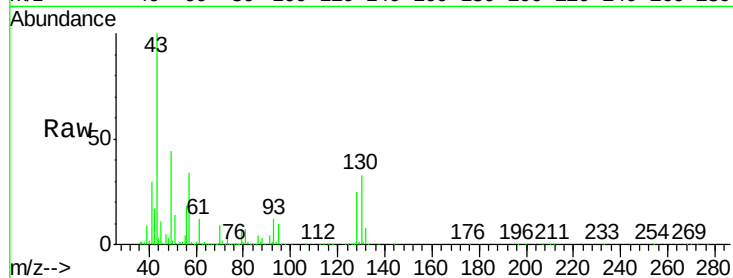
#25
Ethyl Acetate
Concen: 10.444 ppbv
RT: 5.74 min Scan# 872
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.1	12.1
61	10.1	8.1	12.1
70	7.9	6.3	9.5

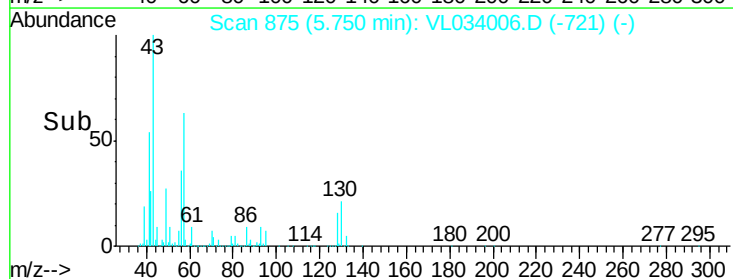
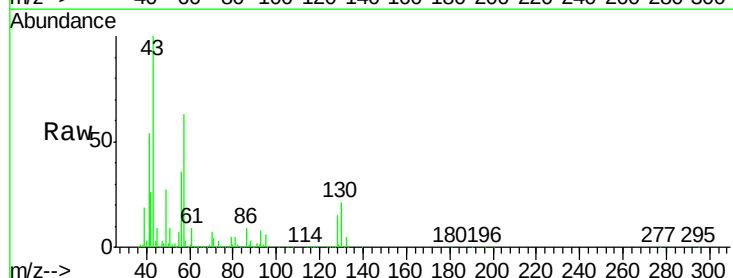
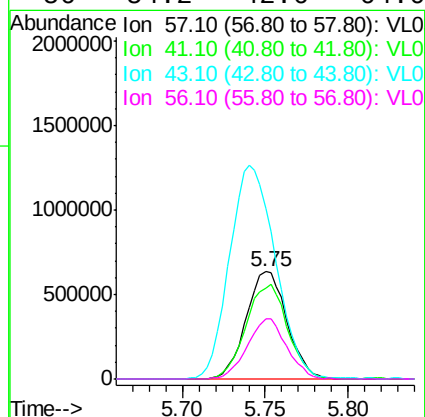
Manual Integrations
APPROVED

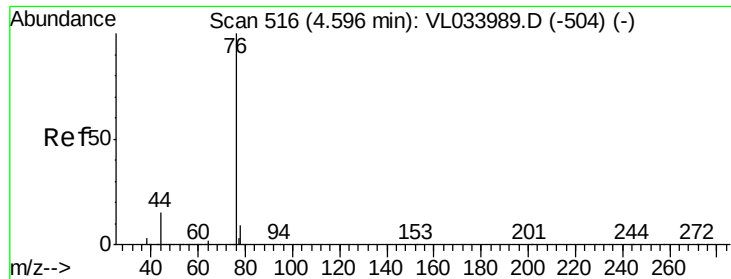
MMDadoda
7/3/2019 11:03:47 PM



#26
Hexane
Concen: 10.223 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.6	105.8
43	224.5	177.6	266.4
56	54.2	42.6	64.0





#27

Carbon Disulfide

Concen: 10.741 ppbv

RT: 4.60 min Scan# 516

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1942526

Ion Ratio Lower Upper

76 100

44 16.5 12.6 18.8

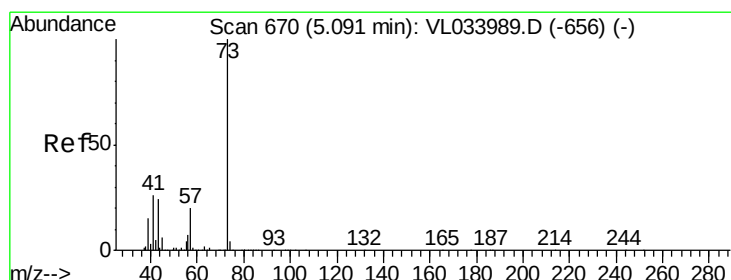
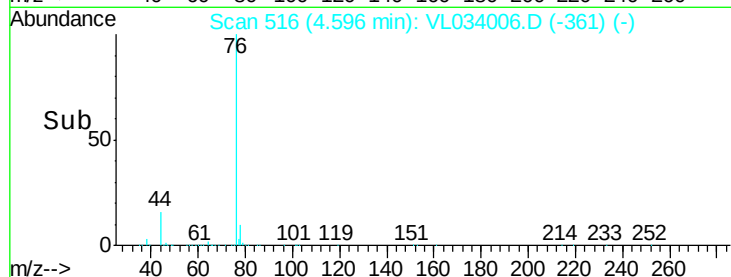
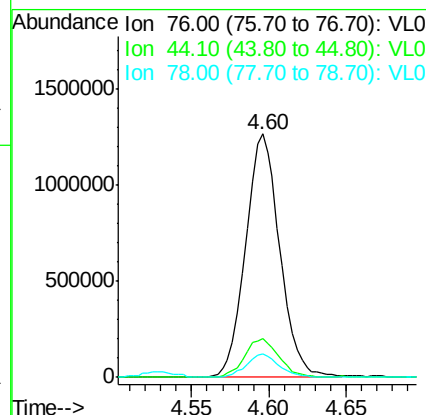
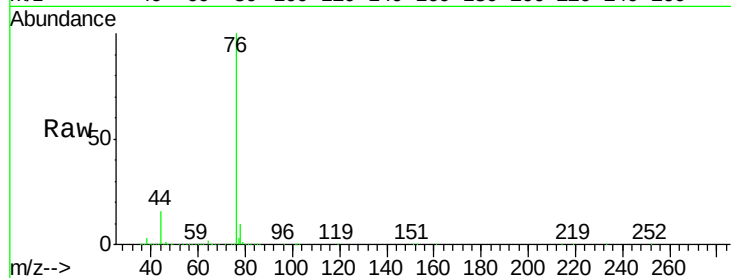
78 9.3 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 10.809 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL034006.D

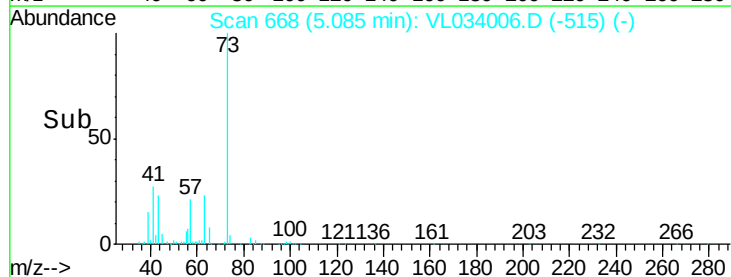
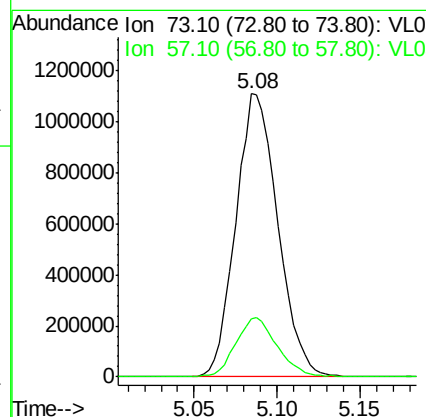
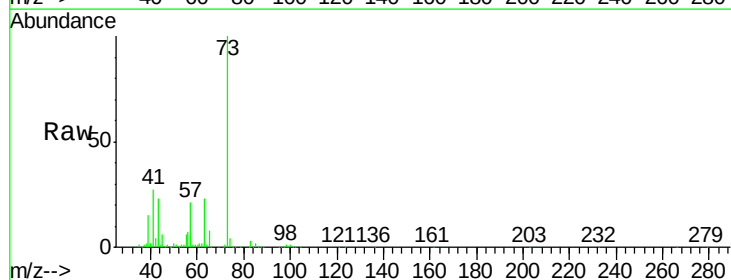
Acq: 3 Jul 2019 9:46

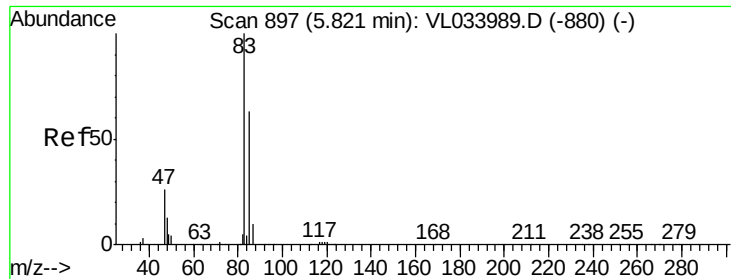
Tgt Ion: 73 Resp: 1947479

Ion Ratio Lower Upper

73 100

57 20.8 16.9 25.3





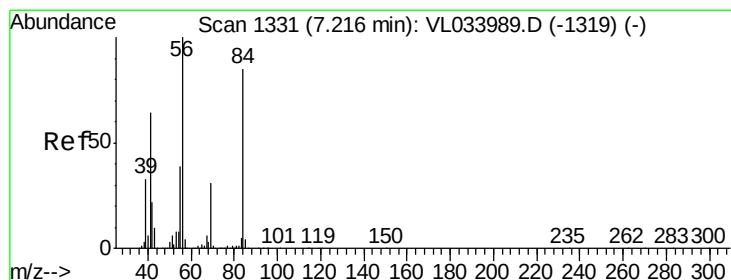
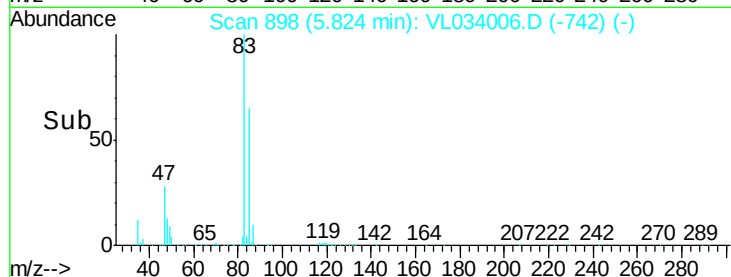
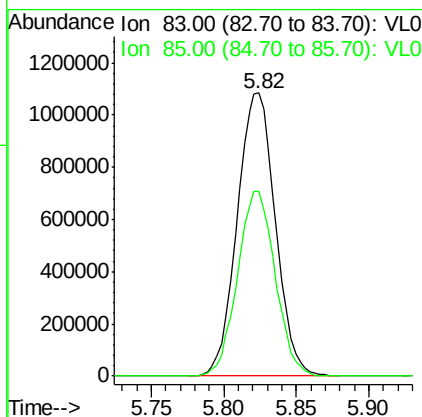
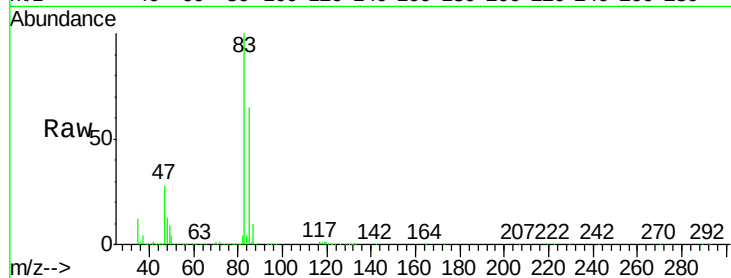
#29
Chloroform
Concen: 9.933 ppbv
RT: 5.82 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1985984
Ion Ratio Lower Upper
83 100
85 65.4 50.6 75.8

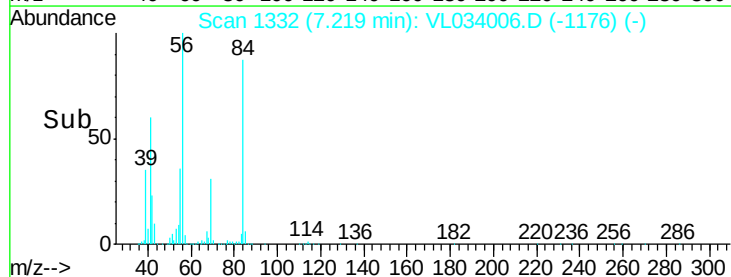
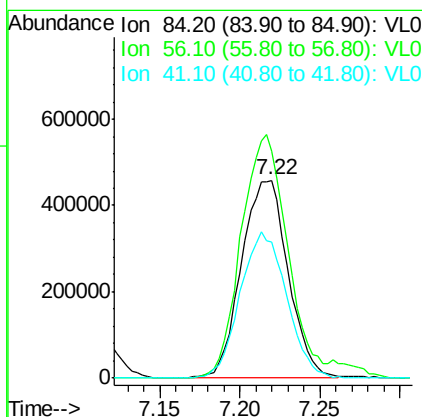
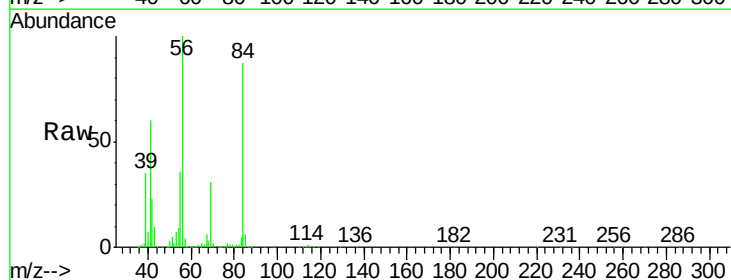
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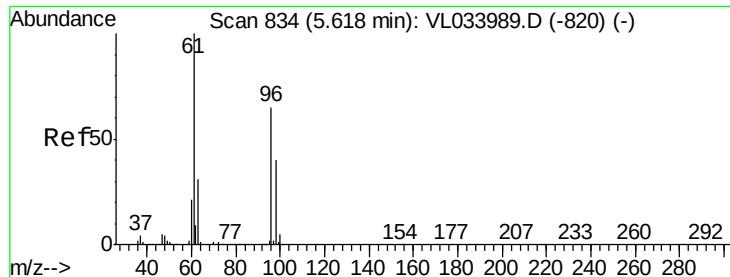
MMDadoda
7/3/2019 11:03:47 PM



#30
Cyclohexane
Concen: 11.131 ppbv
RT: 7.22 min Scan# 1332
Delta R.T. 0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion: 84 Resp: 914490
Ion Ratio Lower Upper
84 100
56 127.6 103.7 155.5
41 73.8 62.6 94.0





#31

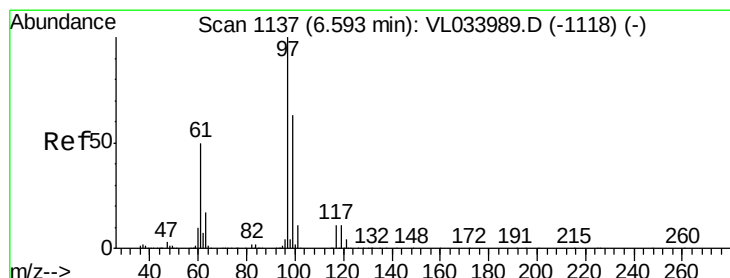
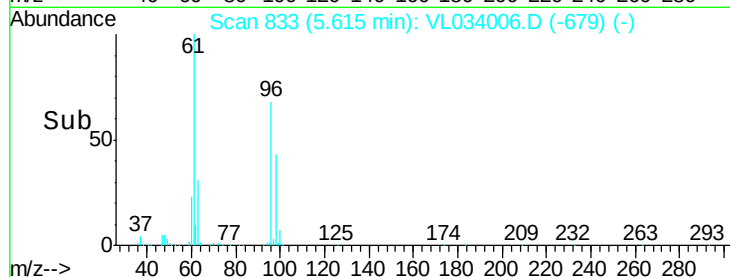
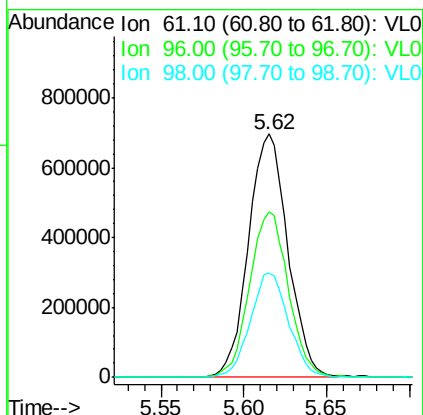
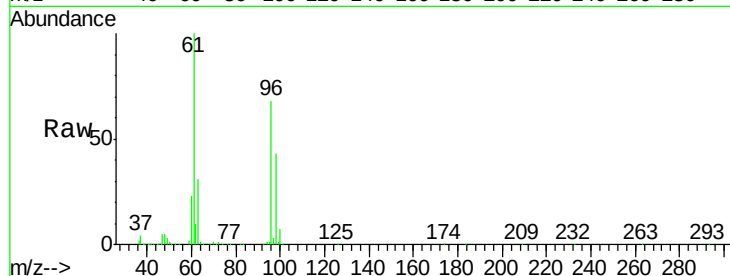
cis-1,2-Dichloroethene
Concen: 11.188 ppbv
RT: 5.62 min Scan# 833
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.7	51.8	77.6
98	42.7	32.1	48.1

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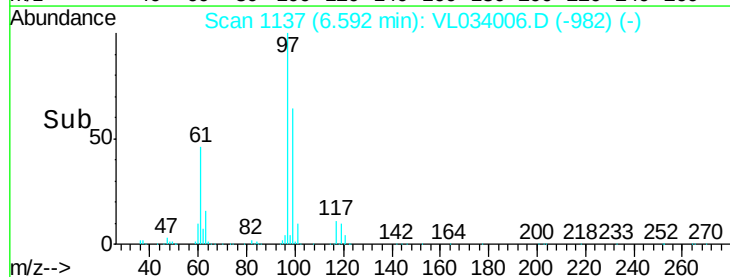
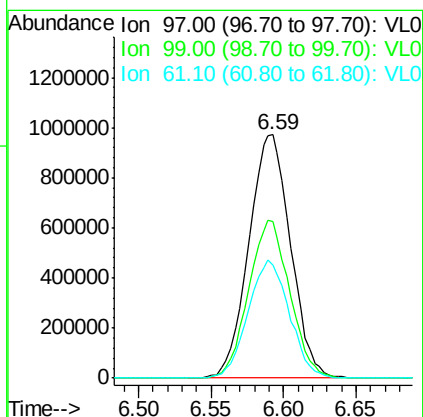
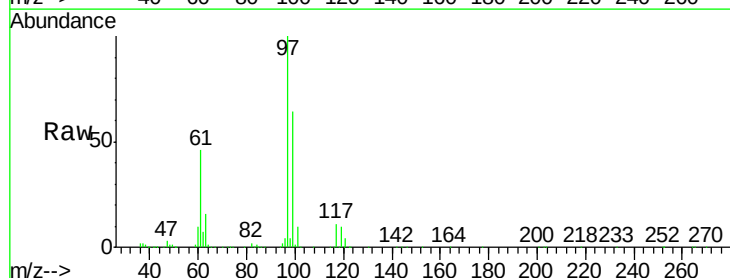
MMDadoda
7/3/2019 11:03:47 PM

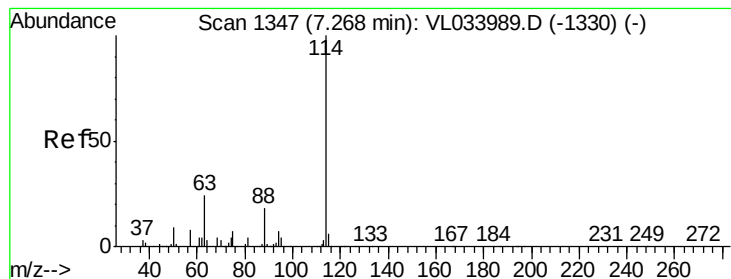


#32

1,1,1-Trichloroethane
Concen: 9.567 ppbv
RT: 6.59 min Scan# 1137
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.9	77.9
61	48.2	39.8	59.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.26 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 2606158

Ion Ratio Lower Upper

114 100

63 25.6 20.2 30.2

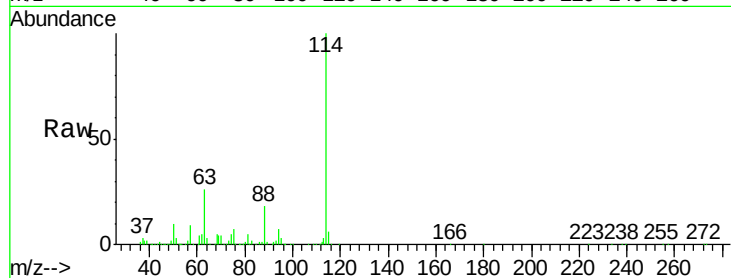
88 17.7 14.1 21.1

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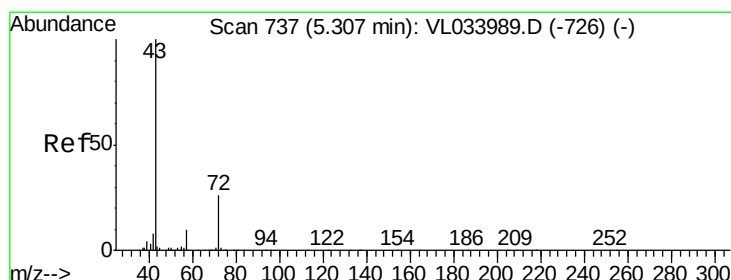
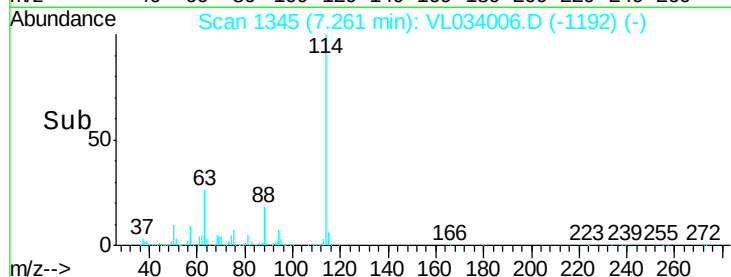
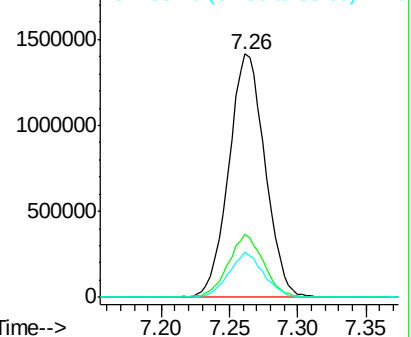
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.598 ppbv

RT: 5.30 min Scan# 736

Delta R.T. -0.00 min

Lab File: VL034006.D

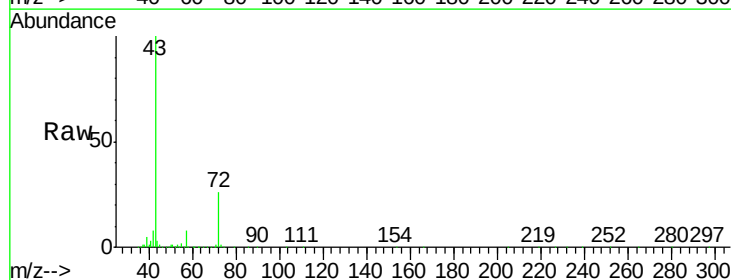
Acq: 3 Jul 2019 9:46

Tgt Ion: 43 Resp: 1461740

Ion Ratio Lower Upper

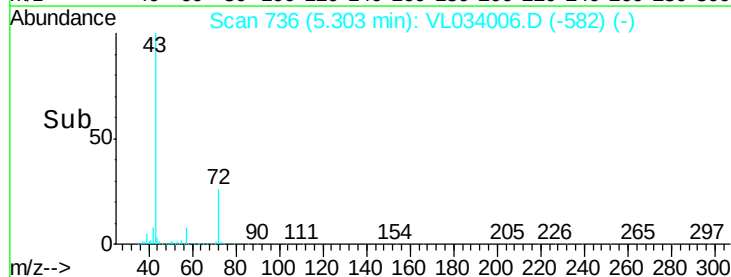
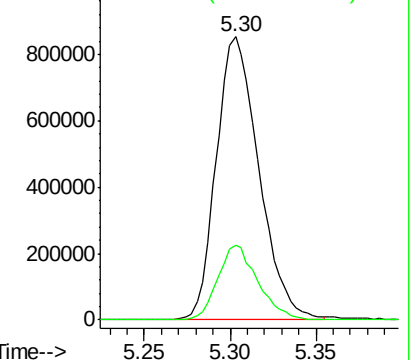
43 100

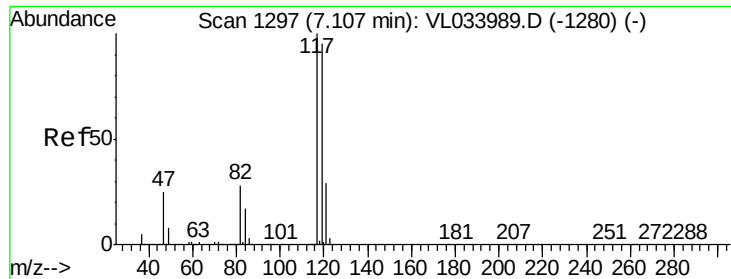
72 24.8 19.9 29.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.000 ppbv

RT: 7.10 min Scan# 1295

Delta R.T. -0.01 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2063225

Ion Ratio Lower Upper

117 100

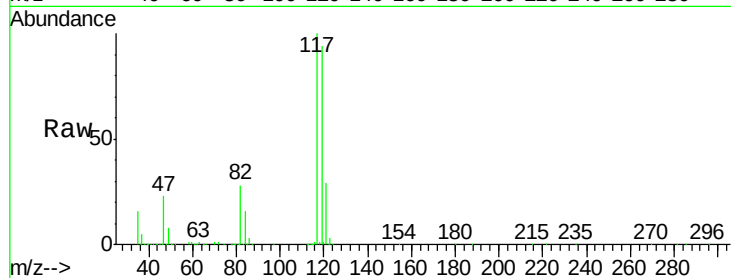
119 93.8 75.8 113.6

121 29.2 23.4 35.2

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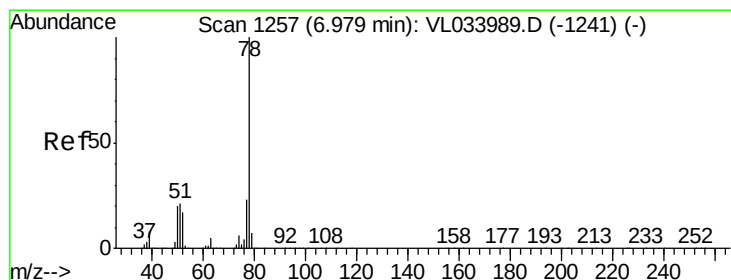
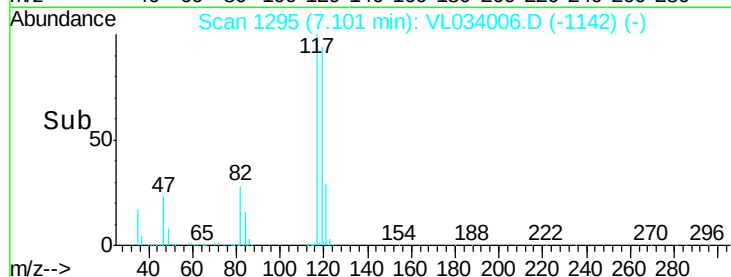
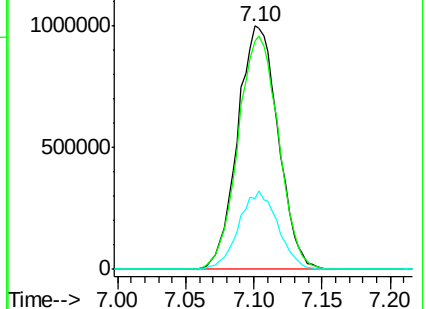
7/3/2019 11:03:47 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.803 ppbv

RT: 6.98 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

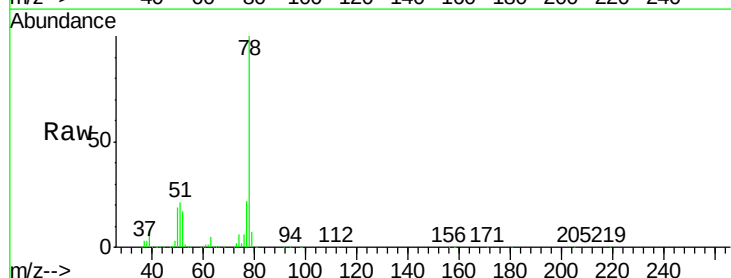
Tgt Ion: 78 Resp: 2202920

Ion Ratio Lower Upper

78 100

77 22.3 18.7 28.1

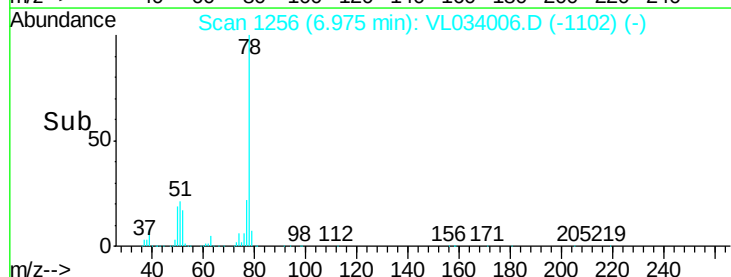
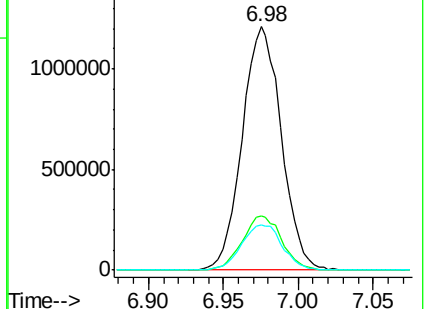
50 18.8 16.2 24.2

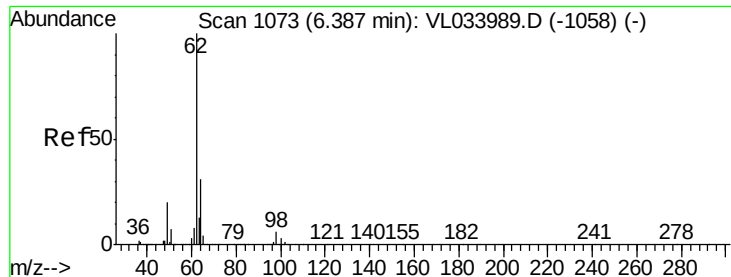


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





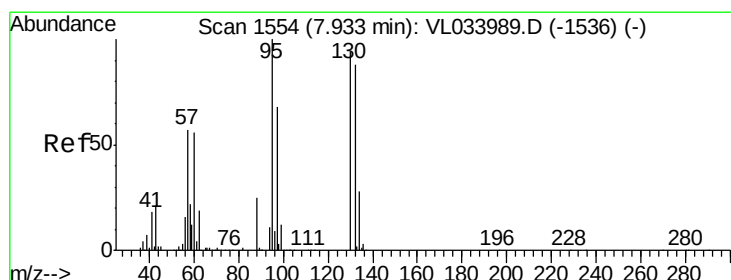
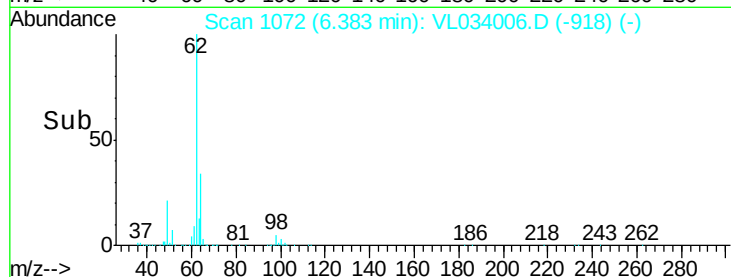
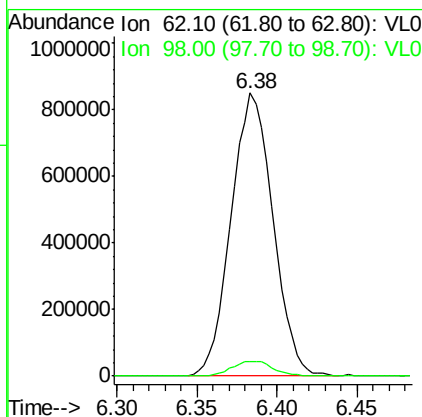
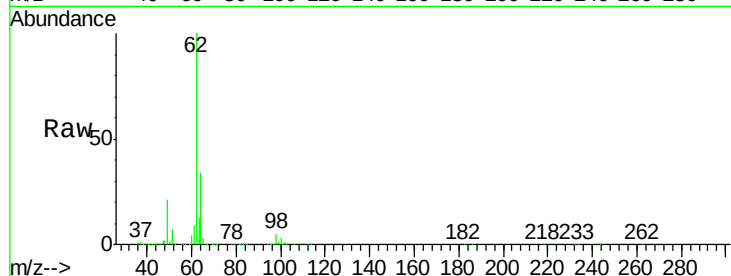
#37
 1,2-Dichloroethane
 Concen: 10.122 ppbv
 RT: 6.38 min Scan# 1072
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1520602
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6

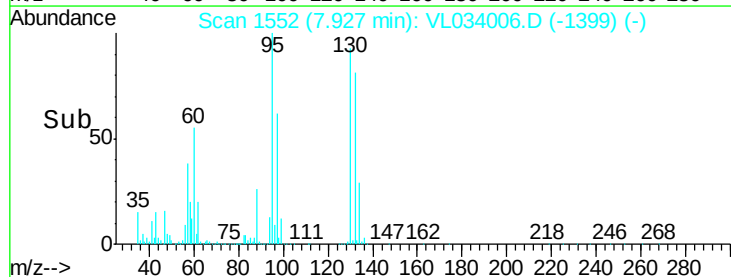
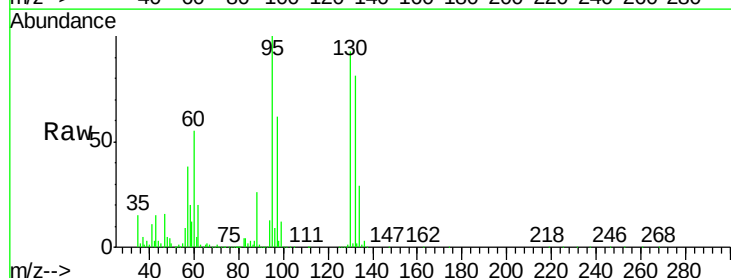
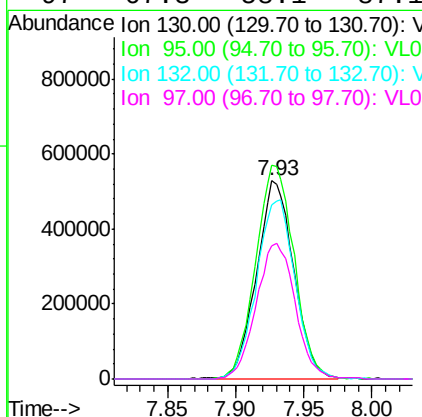
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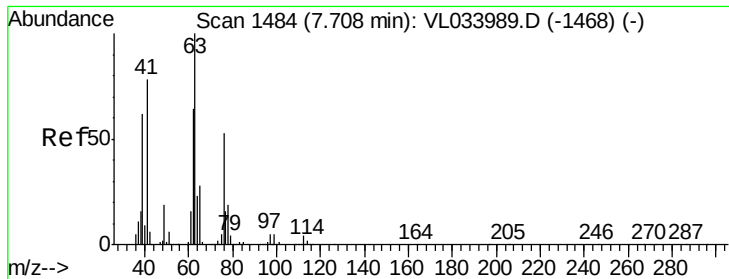
MMDadoda
 7/3/2019 11:03:47 PM



#38
 Trichloroethene
 Concen: 11.013 ppbv
 RT: 7.93 min Scan# 1552
 Delta R.T. -0.01 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Tgt Ion: 130 Resp: 999301
 Ion Ratio Lower Upper
 130 100
 95 107.8 85.5 128.3
 132 87.6 75.1 112.7
 97 67.3 58.1 87.1





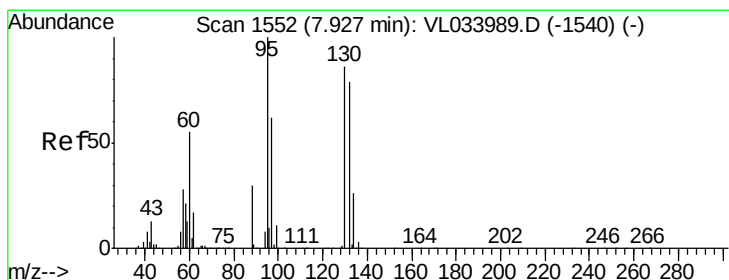
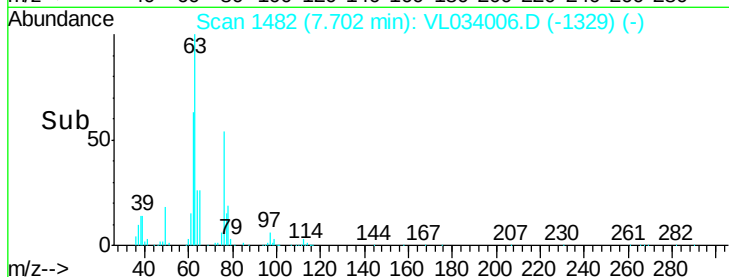
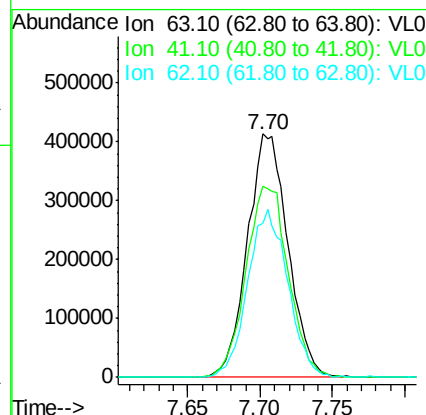
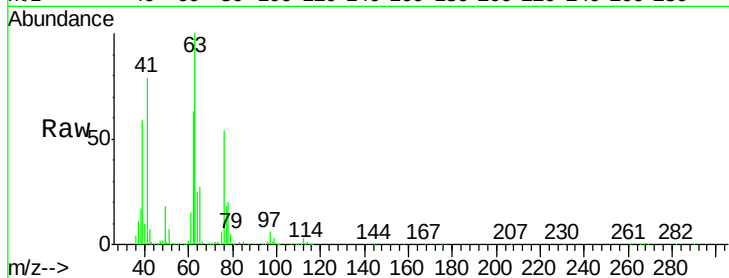
#39
 1,2-Dichloropropane
 Concen: 10.629 ppbv
 RT: 7.70 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.4	62.3	93.5
62	63.3	51.4	77.2

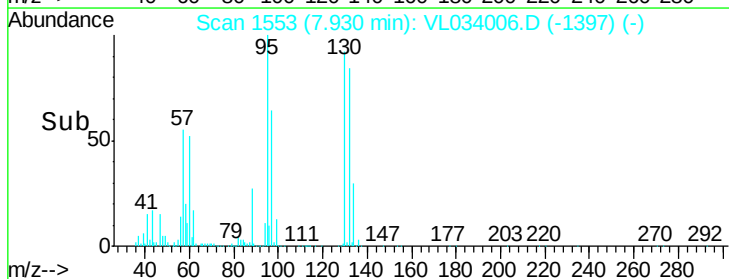
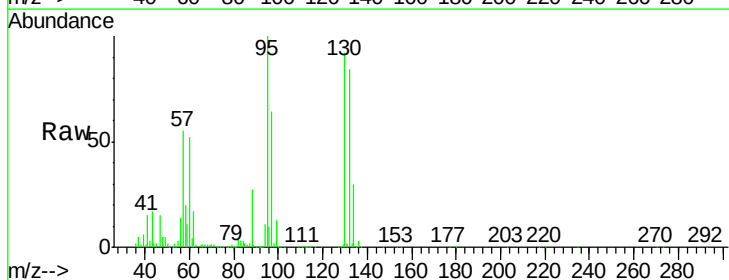
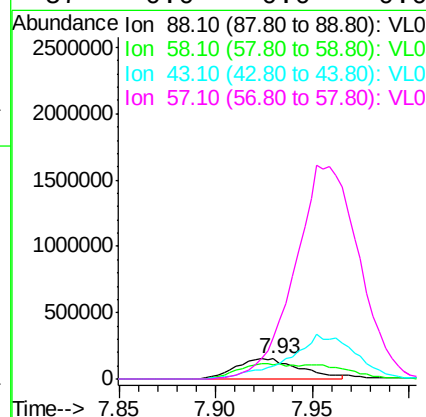
Manual Integrations
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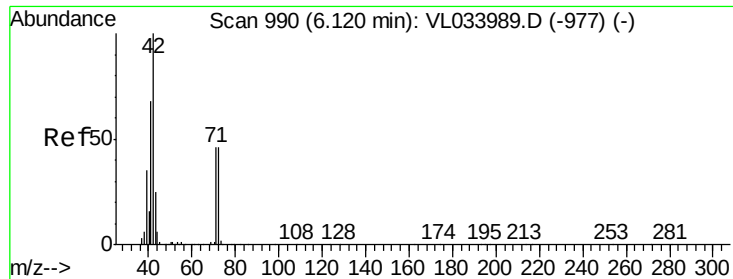
MMDadoda
 7/3/2019 11:03:47 PM



#40
 1,4-Dioxane
 Concen: 9.996 ppbv
 RT: 7.93 min Scan# 1553
 Delta R.T. 0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Tgt Ion	Ratio	Lower	Upper
88	100		
58	122.0	99.1	148.7
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 11.609 ppbv

RT: 6.12 min Scan# 990

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

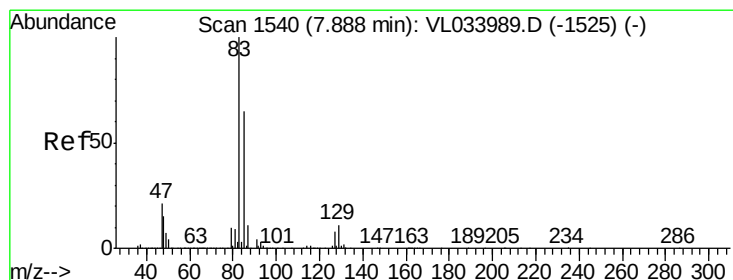
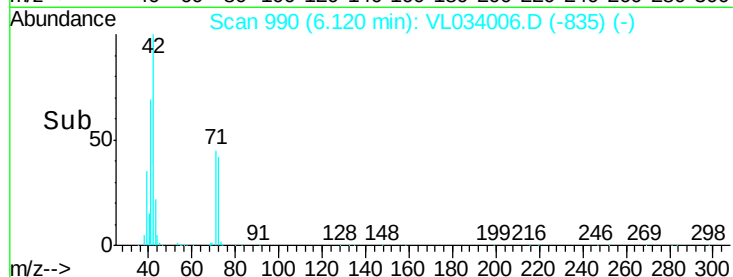
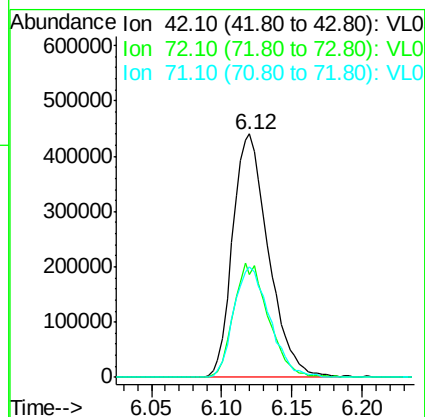
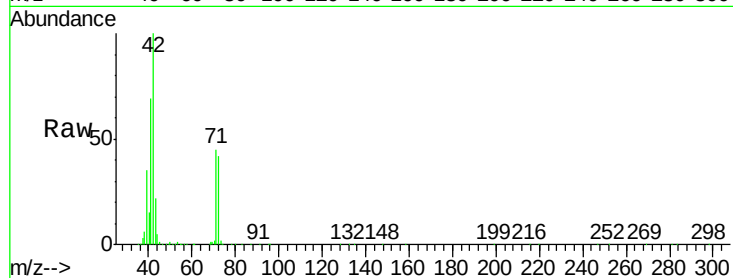
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	785263
Ion Ratio	Lower	Upper	
42	100		
72	46.0	37.3	55.9
71	45.8	36.2	54.2

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#42

Bromodichloromethane

Concen: 10.473 ppbv

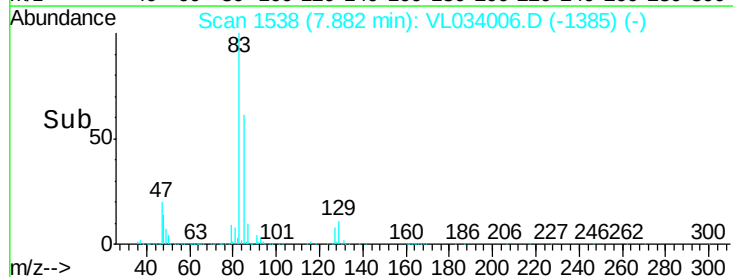
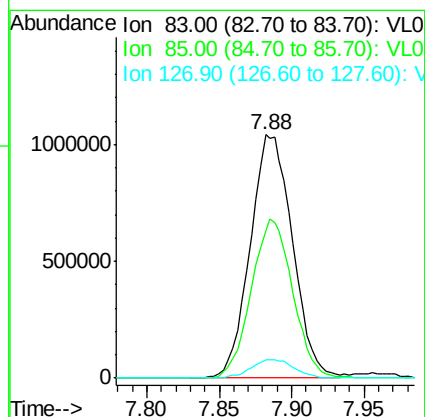
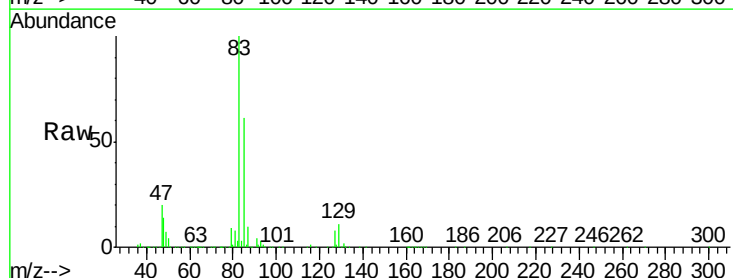
RT: 7.88 min Scan# 1538

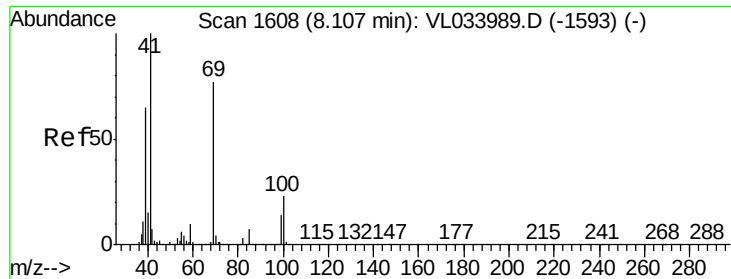
Delta R.T. -0.01 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Tgt Ion:	83	Resp:	2110989
Ion Ratio	Lower	Upper	
83	100		
85	60.5	51.8	77.8
127	7.6	6.5	9.7





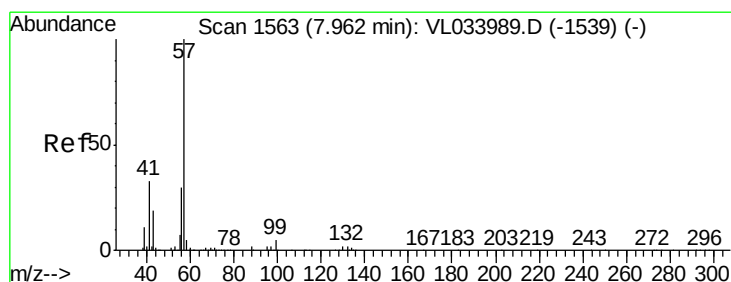
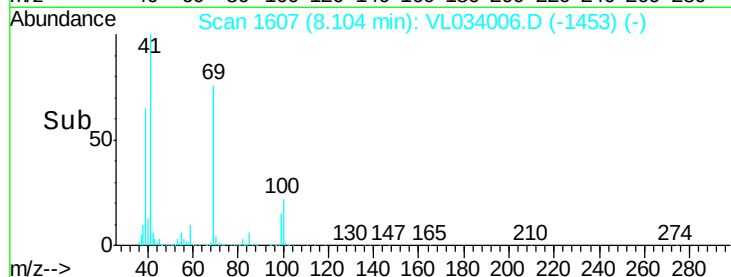
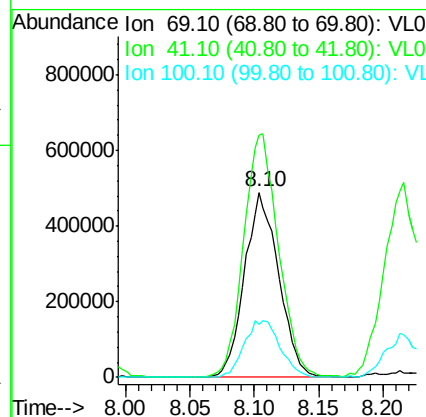
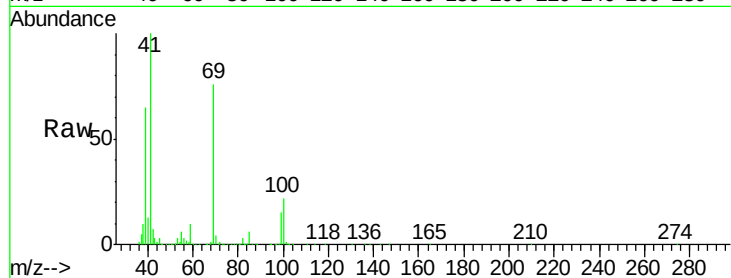
#43
Methyl Methacrylate
Concen: 11.698 ppbv
RT: 8.10 min Scan# 1607
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	133.8	109.1	163.7	
100	32.2	25.3	37.9	

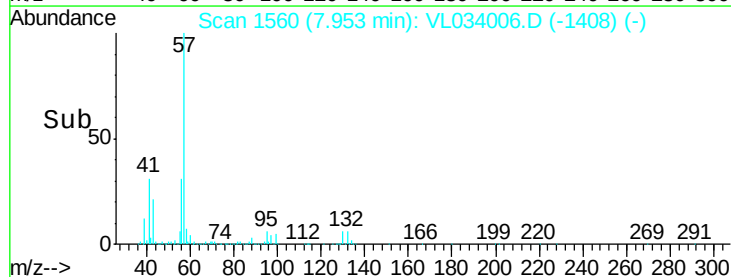
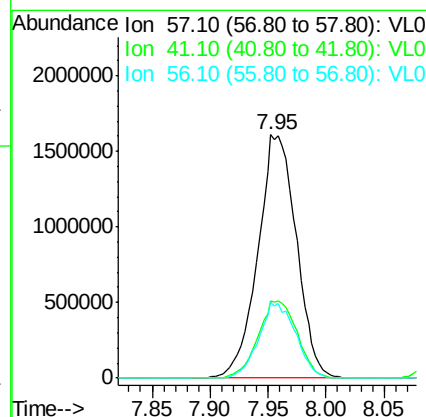
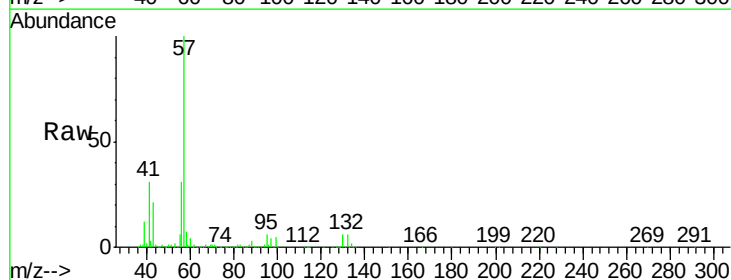
Manual Integrations
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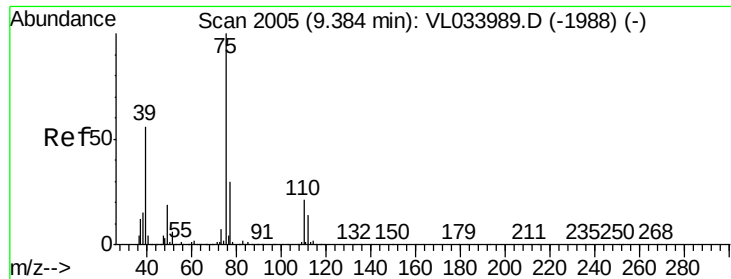
MMDadoda
7/3/2019 11:03:47 PM



#44
2,2,4-Trimethylpentane
Concen: 10.583 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.4	26.1	39.1	
56	30.0	24.4	36.6	





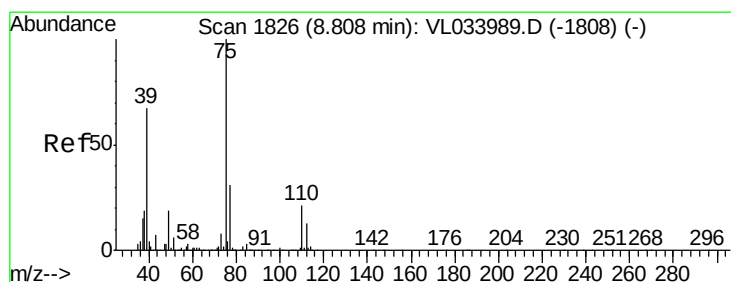
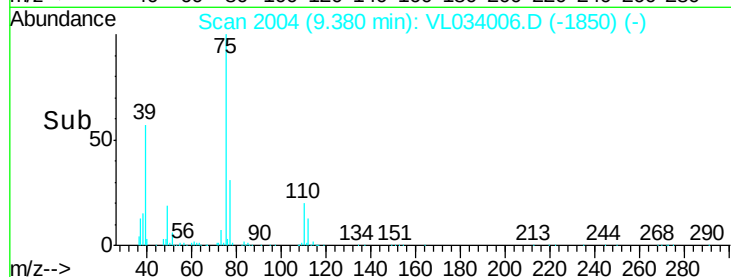
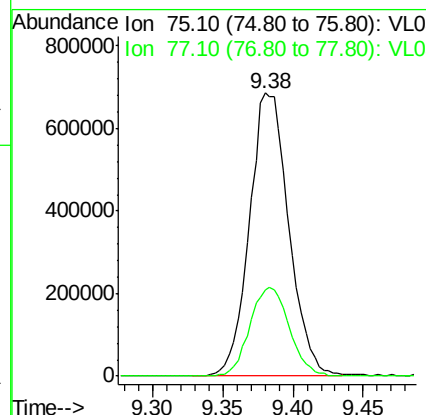
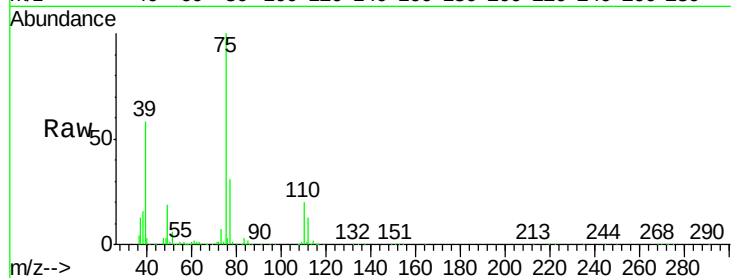
#45
t-1,3-Dichloropropene
Concen: 13.247 ppbv
RT: 9.38 min Scan# 2004
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1340242
Ion Ratio Lower Upper
75 100
77 30.5 24.3 36.5

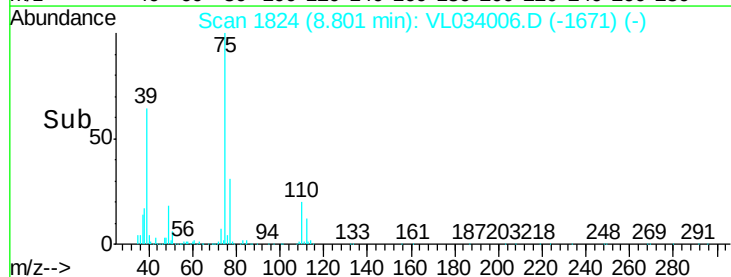
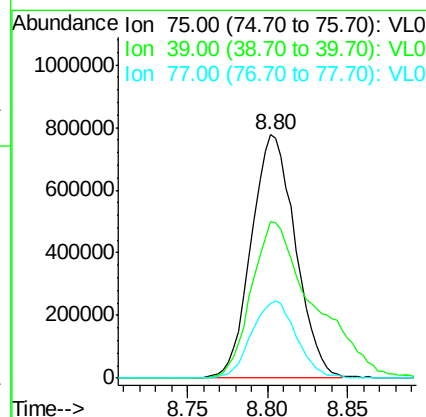
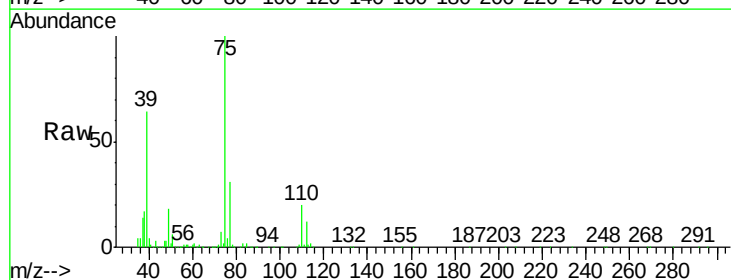
Manual Integrations
APPROVED

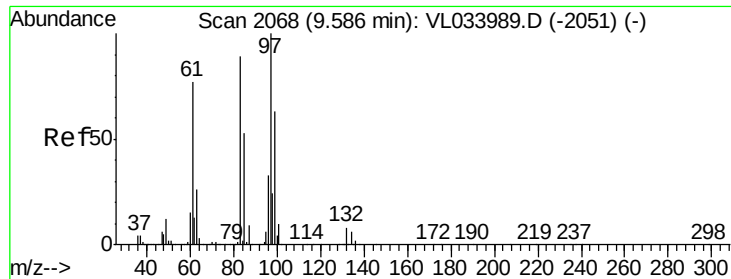
MMDadoda
7/3/2019 11:03:47 PM



#46
cis-1,3-Dichloropropene
Concen: 12.528 ppbv
RT: 8.80 min Scan# 1824
Delta R.T. -0.01 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion: 75 Resp: 1467947
Ion Ratio Lower Upper
75 100
39 64.3 53.8 80.6
77 30.5 24.5 36.7





#47
 1,1,2-Trichloroethane
 Concen: 10.746 ppbv
 RT: 9.58 min Scan# 2066
 Delta R.T. -0.01 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

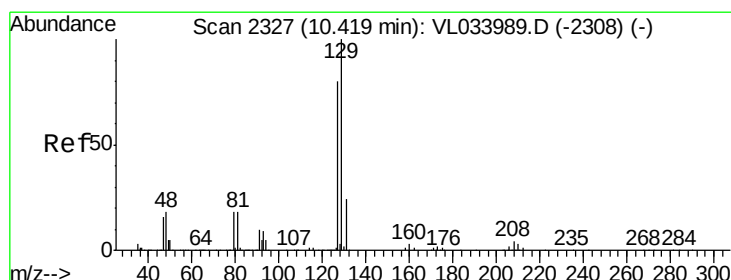
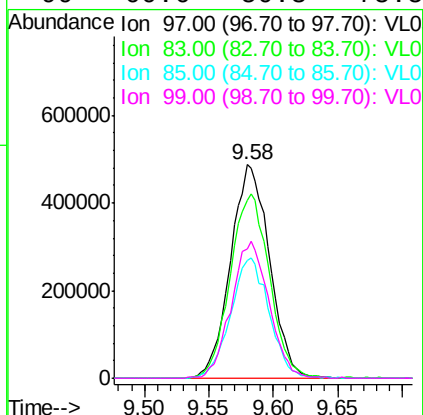
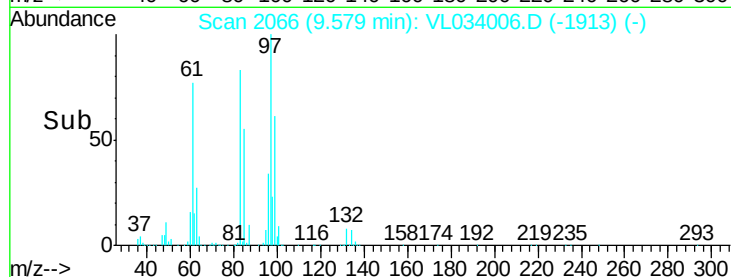
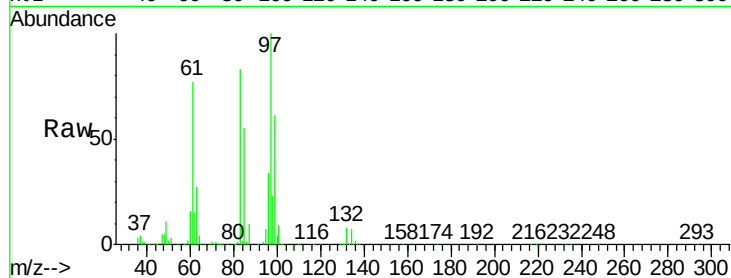
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 97 Resp: 1024522

Ion	Ratio	Lower	Upper
97	100		
83	83.4	71.1	106.7
85	54.8	42.6	64.0
99	60.6	50.3	75.5

Manual Integrations
 APPROVED

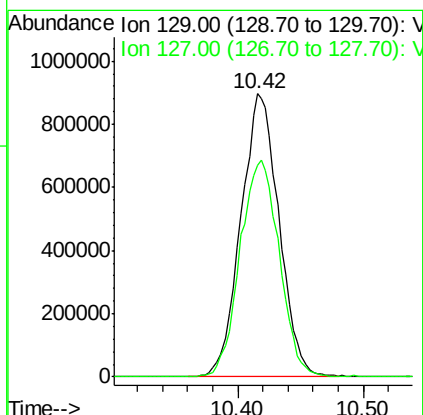
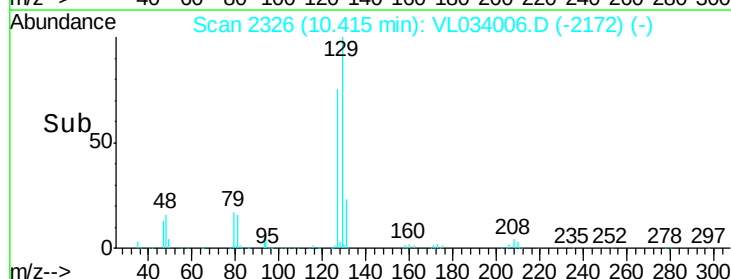
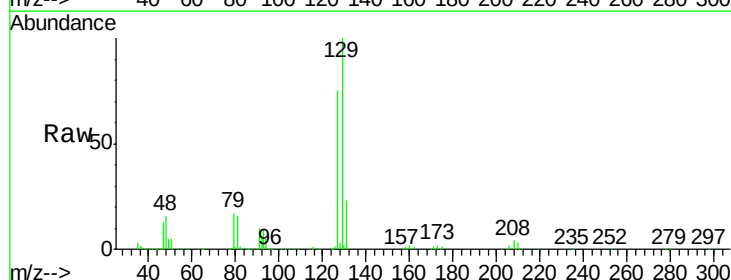
MMDadoda
 7/3/2019 11:03:47 PM

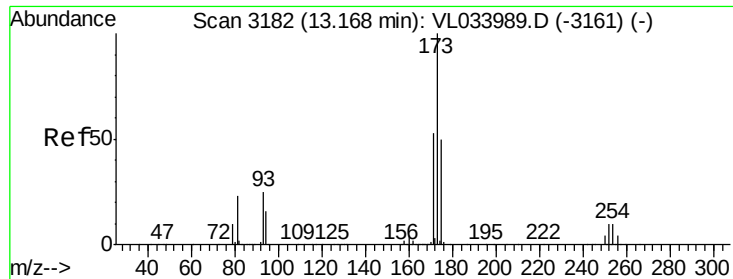


#48
 Dibromochloromethane
 Concen: 10.403 ppbv
 RT: 10.42 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Tgt Ion: 129 Resp: 1892526

Ion	Ratio	Lower	Upper
129	100		
127	79.3	39.1	117.3





#49

Bromoform

Concen: 12.184 ppbv

RT: 13.17 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1893621

Ion Ratio Lower Upper

173 100

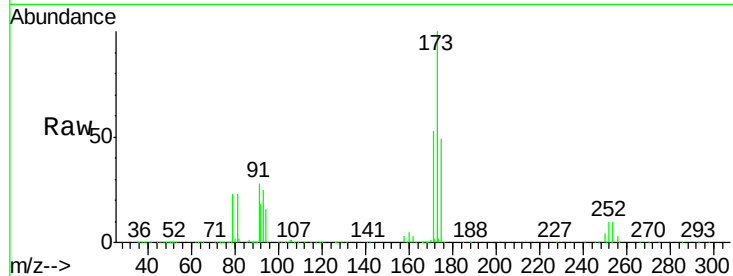
175 50.0 39.3 58.9

171 51.9 41.4 62.0

Manual Integrations
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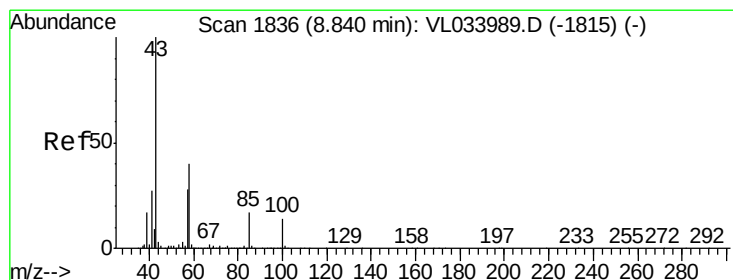
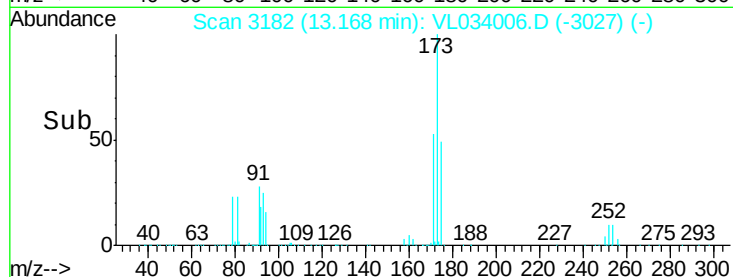
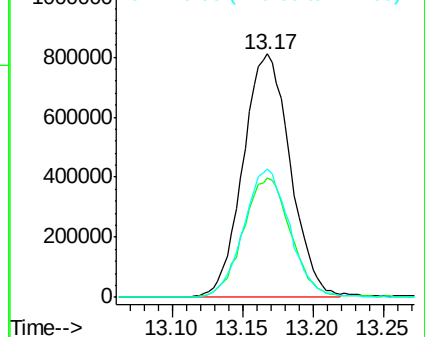
7/3/2019 11:03:47 PM



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: 11.241 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VL034006.D

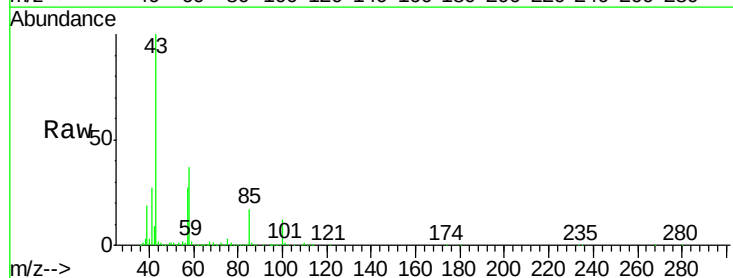
Acq: 3 Jul 2019 9:46

Tgt Ion: 43 Resp: 2300681

Ion Ratio Lower Upper

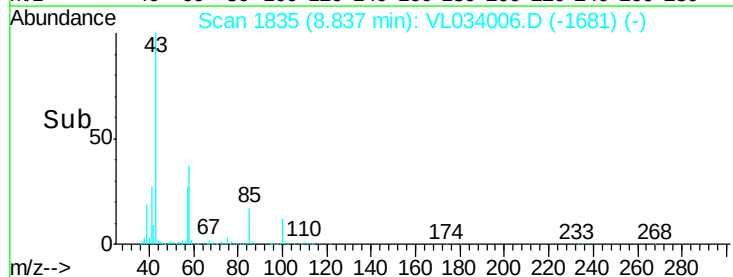
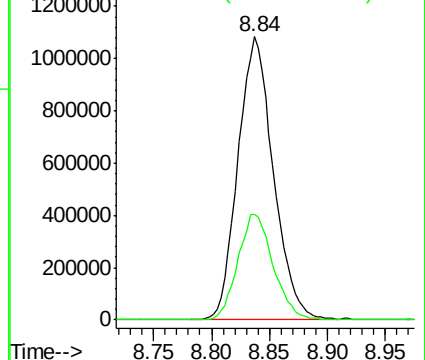
43 100

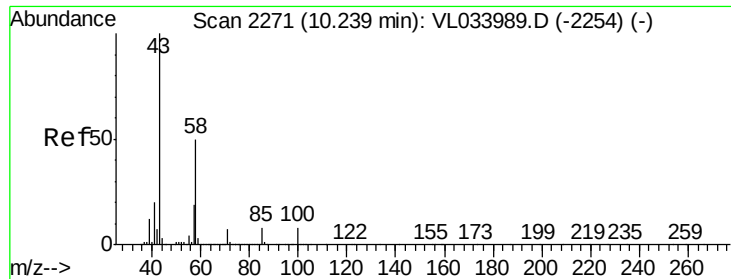
58 37.3 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





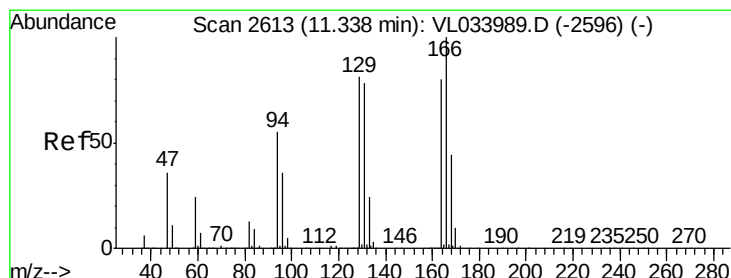
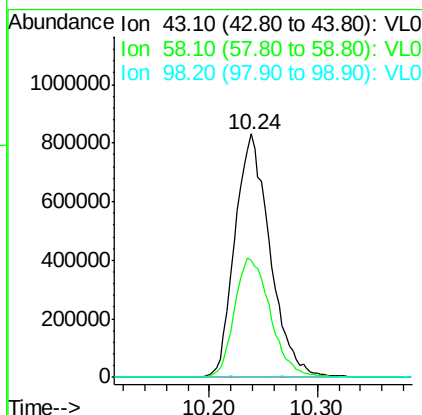
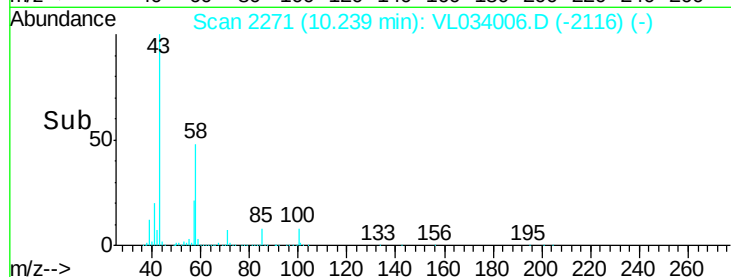
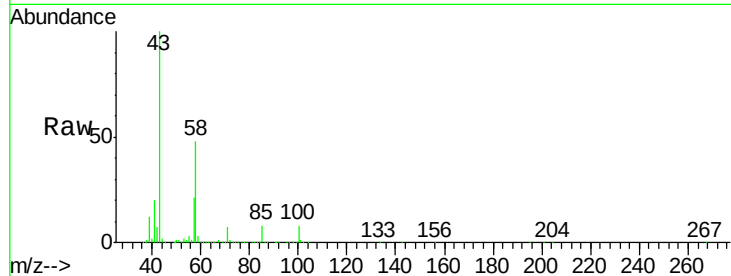
#51
2-Hexanone
Concen: 11.412 ppbv
RT: 10.24 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1883784
Ion Ratio Lower Upper
43 100
58 50.3 41.0 61.4
98 0.4 0.2 0.2#

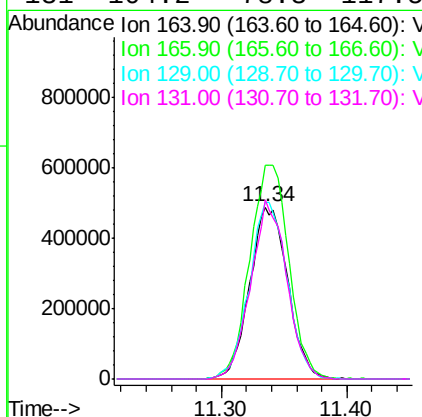
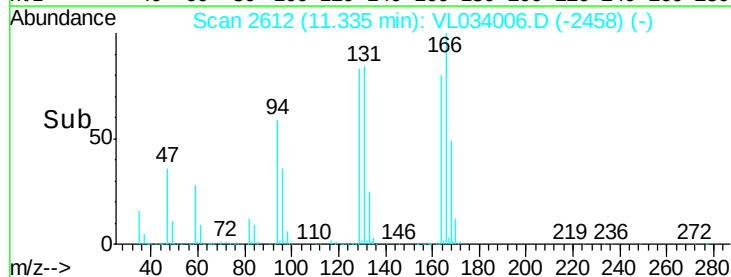
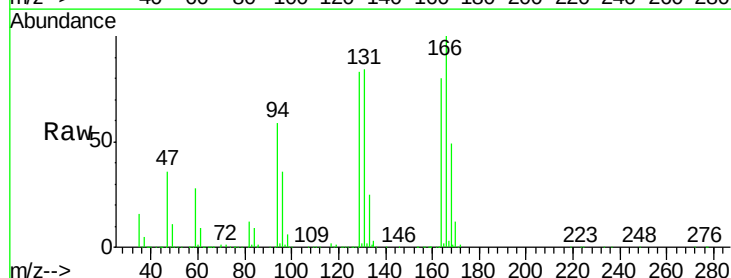
Manual Integrations
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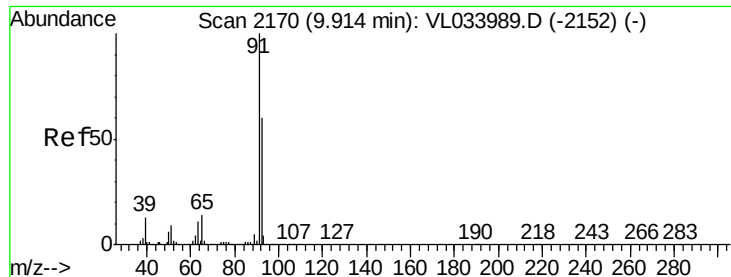
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#52
Tetrachloroethene
Concen: 11.708 ppbv
RT: 11.34 min Scan# 2612
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion: 164 Resp: 1027625
Ion Ratio Lower Upper
164 100
166 124.3 100.2 150.2
129 102.8 81.0 121.6
131 104.2 78.3 117.5





#53

Toluene

Concen: 12.447 ppbv

RT: 9.91 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2905523

Ion Ratio Lower Upper

91 100

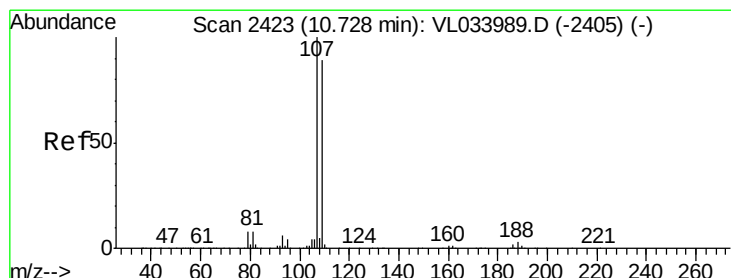
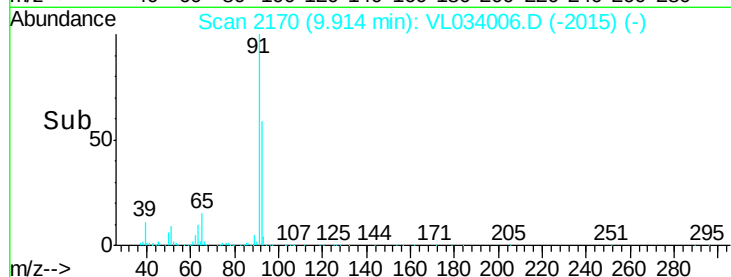
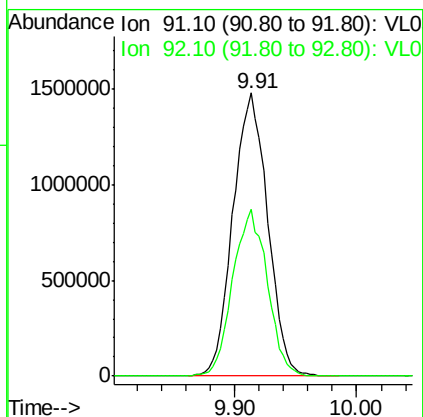
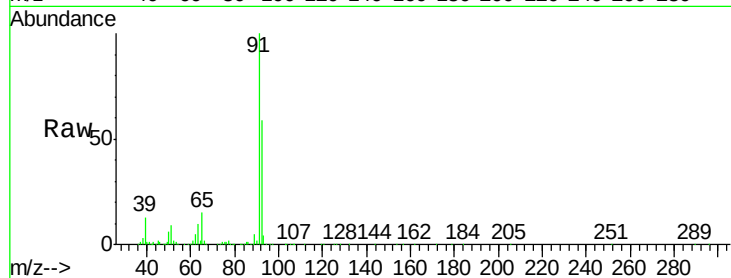
92 58.7 47.7 71.5

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 11.298 ppbv

RT: 10.73 min Scan# 2423

Delta R.T. -0.00 min

Lab File: VL034006.D

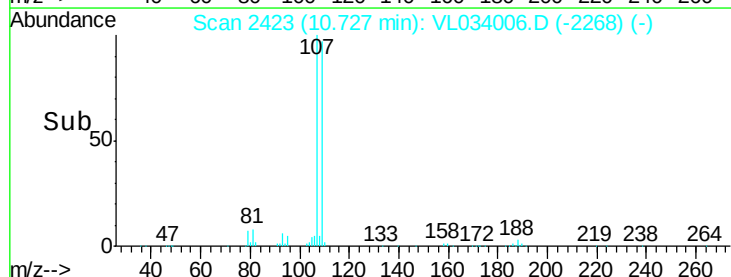
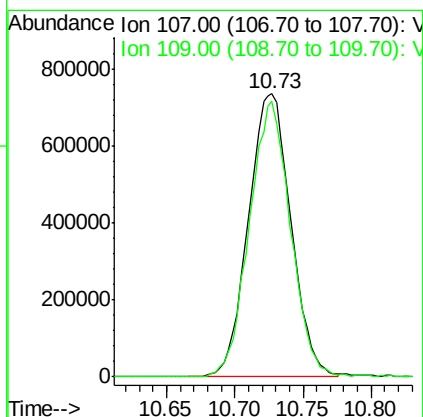
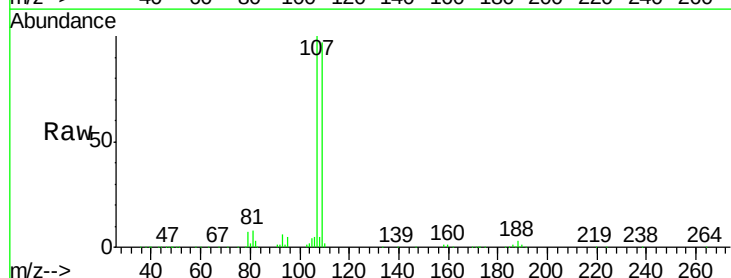
Acq: 3 Jul 2019 9:46

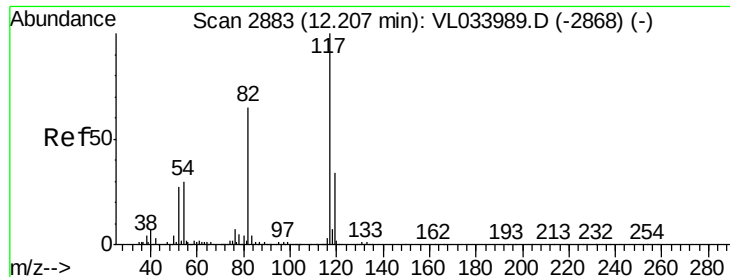
Tgt Ion: 107 Resp: 1589666

Ion Ratio Lower Upper

107 100

109 97.4 71.5 107.3





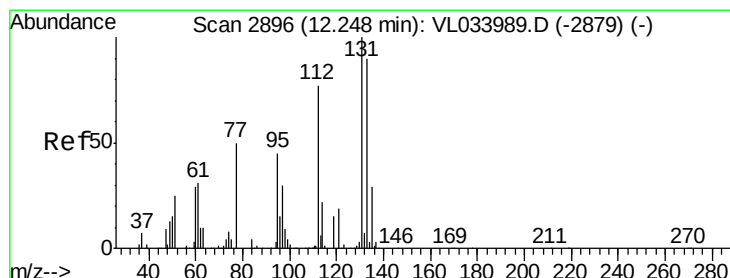
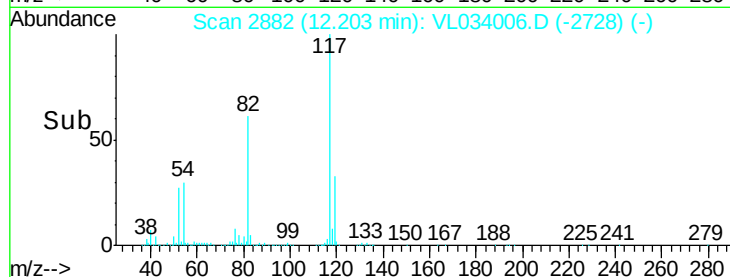
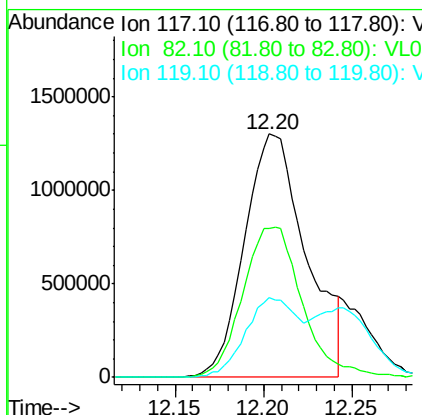
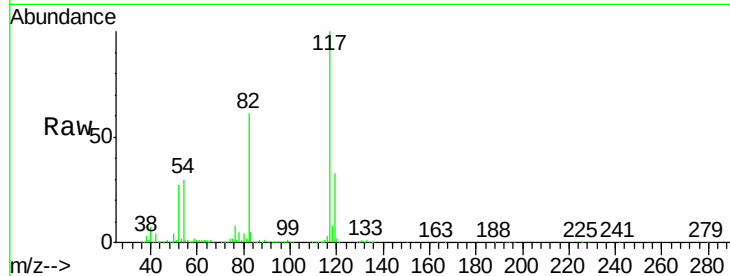
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.20 min Scan# 2882
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3143258
Ion Ratio Lower Upper
117 100
82 60.2 50.8 76.2
119 29.4 24.0 36.0

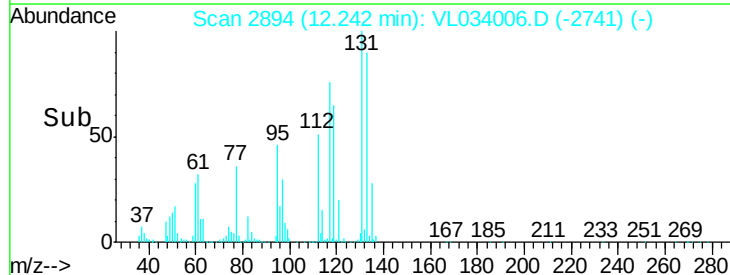
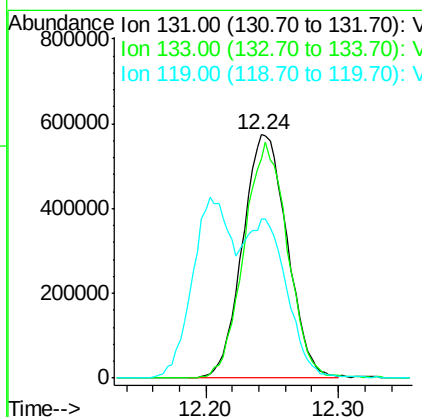
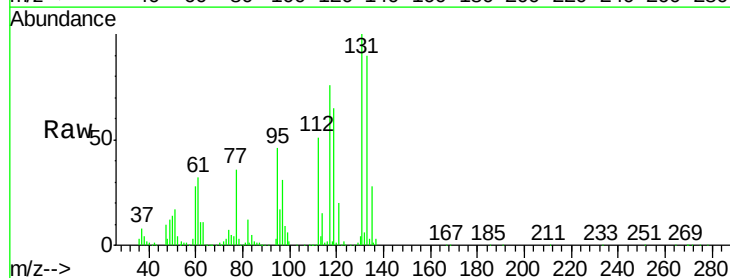
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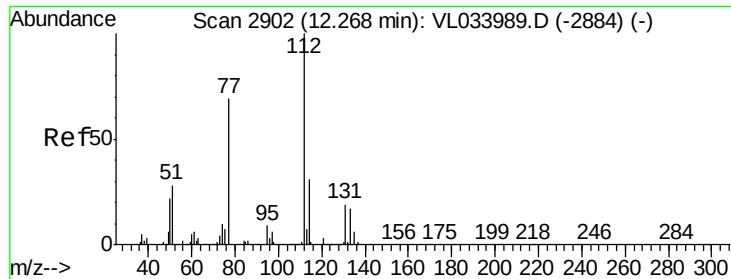
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.554 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion:131 Resp: 1342183
Ion Ratio Lower Upper
131 100
133 94.9 76.2 114.2
119 55.1 43.1 64.7





#57

Chlorobenzene

Concen: 9.446 ppbv

RT: 12.26 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2363908

Ion Ratio Lower Upper

112 100

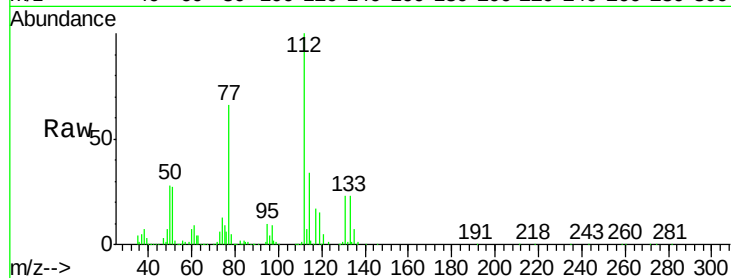
77 65.6 55.9 83.9

114 33.8 27.6 33.8

Manual Integrations
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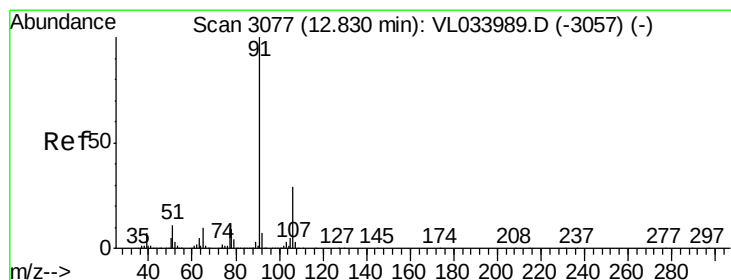
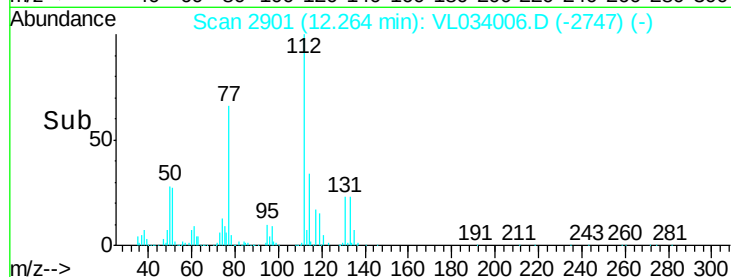
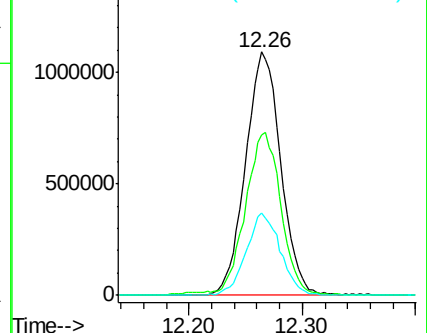
7/3/2019 11:03:47 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.968 ppbv

RT: 12.83 min Scan# 3077

Delta R.T. -0.00 min

Lab File: VL034006.D

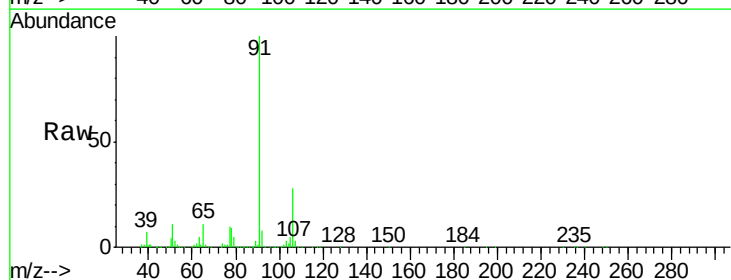
Acq: 3 Jul 2019 9:46

Tgt Ion: 91 Resp: 4145887

Ion Ratio Lower Upper

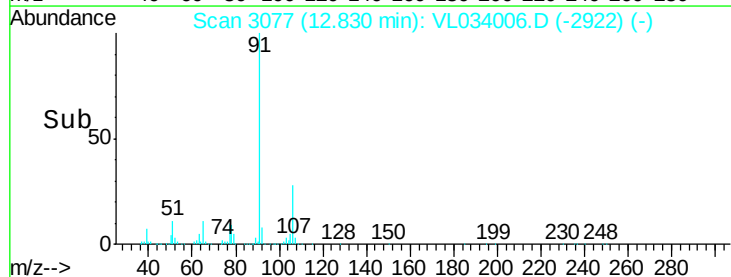
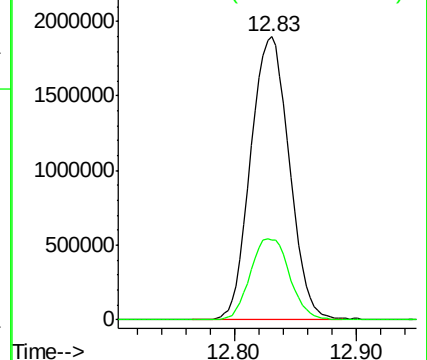
91 100

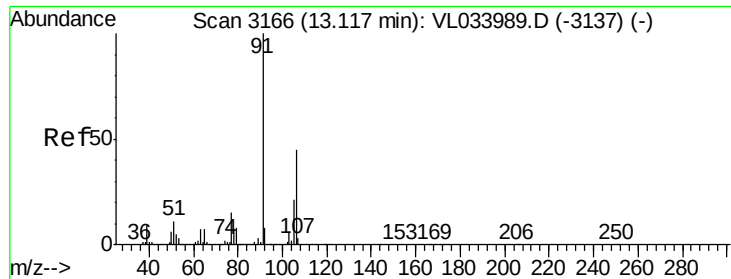
106 28.0 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





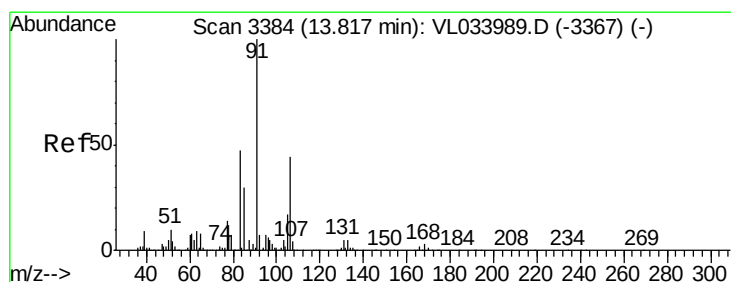
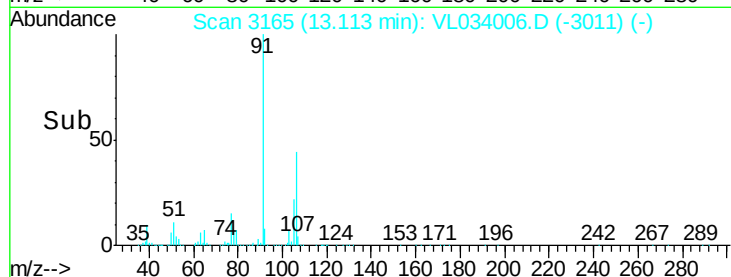
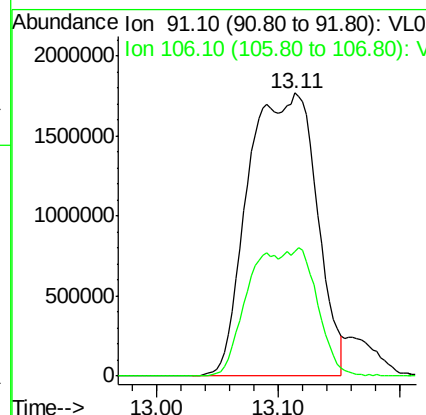
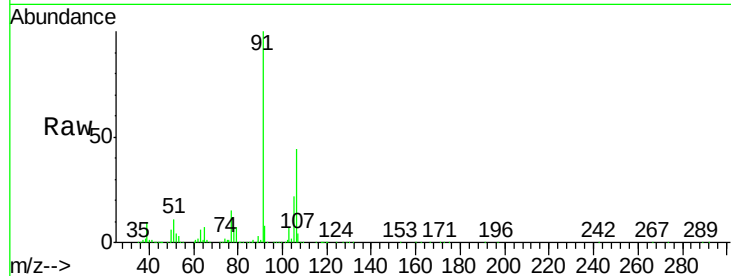
#59
m/p-Xylene
Concen: 20.195 ppbv m
RT: 13.11 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 6911905
Ion Ratio Lower Upper
91 100
106 45.0 35.7 53.5

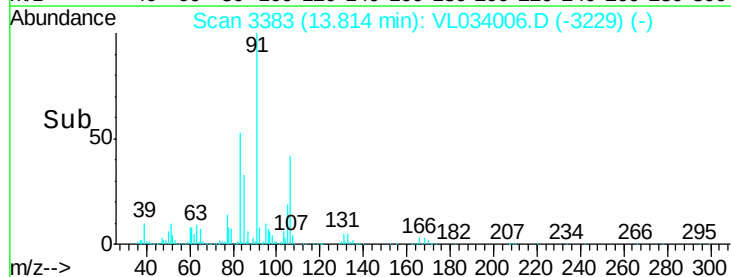
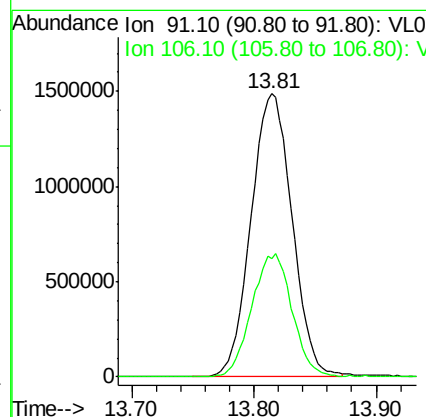
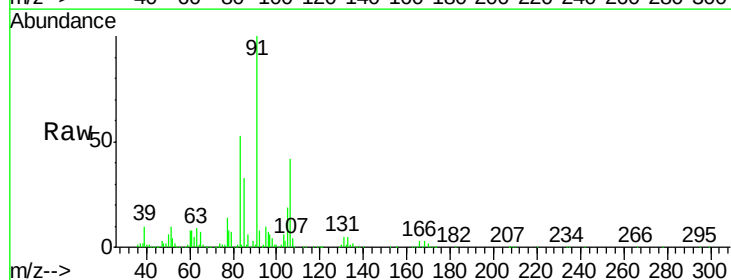
Manual Integrations
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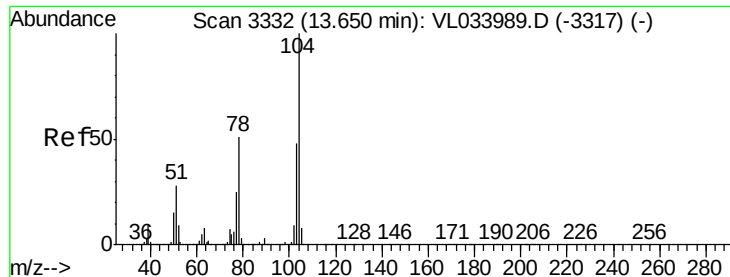
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#60
o-Xylene
Concen: 10.104 ppbv
RT: 13.81 min Scan# 3383
Delta R.T. -0.00 min
Lab File: VL034006.D
Acq: 3 Jul 2019 9:46

Tgt Ion: 91 Resp: 3459328
Ion Ratio Lower Upper
91 100
106 43.0 21.9 65.7





#61

Stvrene

Concen: 11.338 ppbv

RT: 13.65 min Scan# 3332

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2569098

Ion Ratio Lower Upper

104 100

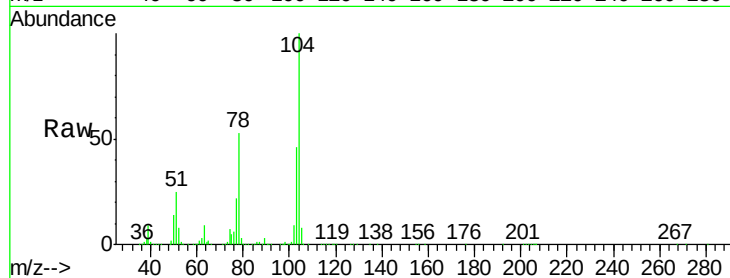
78 55.1 43.9 65.9

103 48.0 38.1 57.1

Manual Integrations
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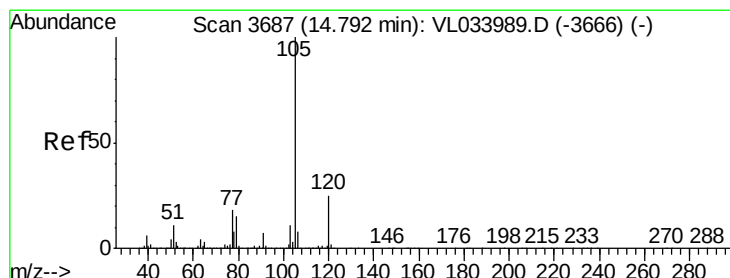
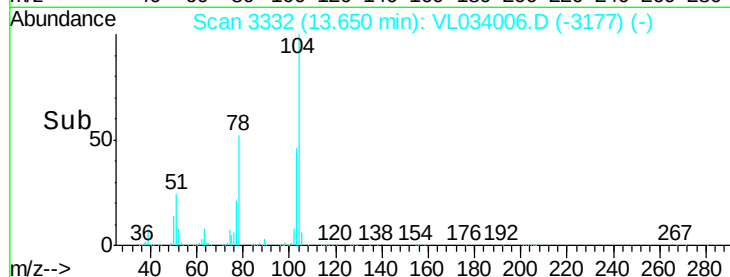
Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

13.65

Time-->



#62

Isopropylbenzene

Concen: 8.716 ppbv

RT: 14.79 min Scan# 3687

Delta R.T. -0.00 min

Lab File: VL034006.D

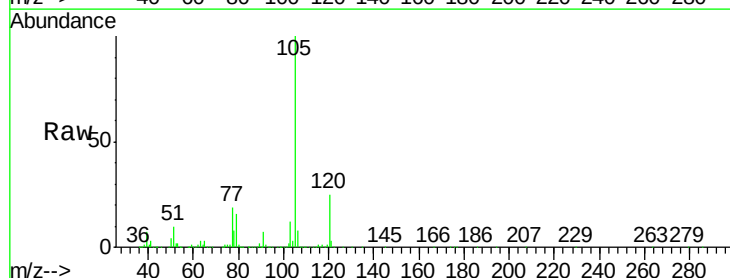
Acq: 3 Jul 2019 9:46

Tgt Ion:105 Resp: 4587785

Ion Ratio Lower Upper

105 100

120 25.1 20.4 30.6

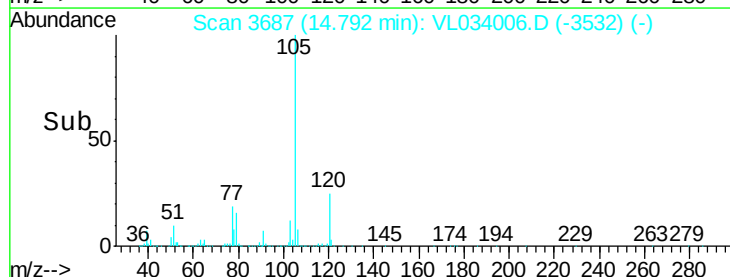


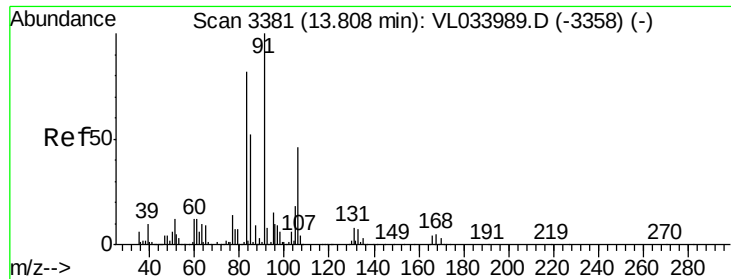
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.79

Time-->





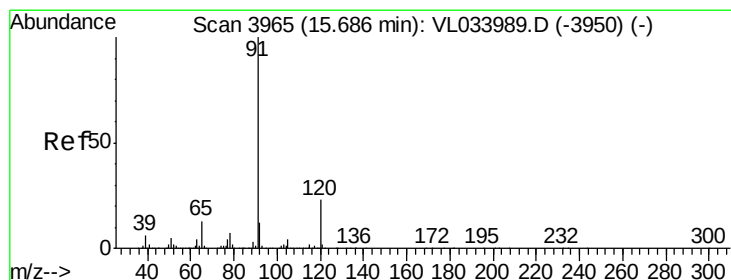
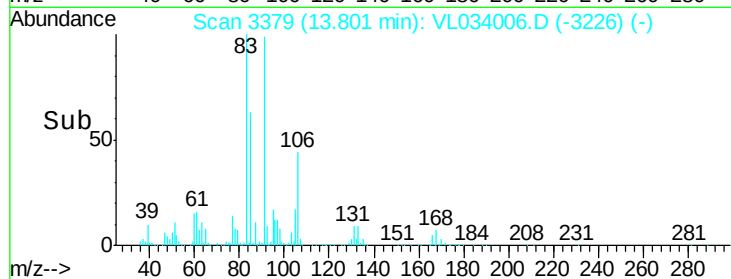
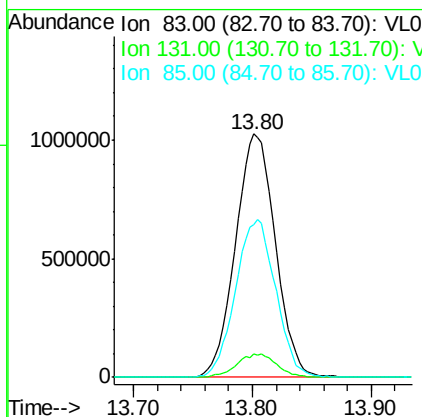
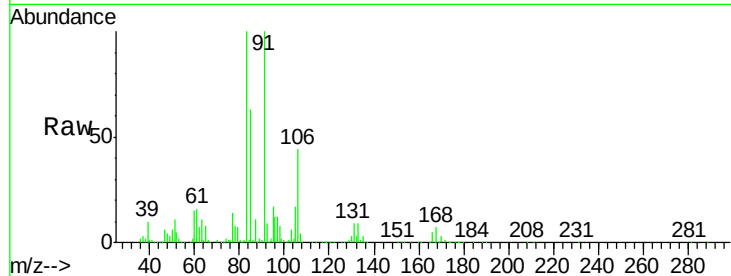
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.955 ppbv
 RT: 13.80 min Scan# 3379
 Delta R.T. -0.01 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 83 Resp: 2373279
 Ion Ratio Lower Upper
 83 100
 131 9.8 5.0 14.9
 85 65.7 32.8 98.3

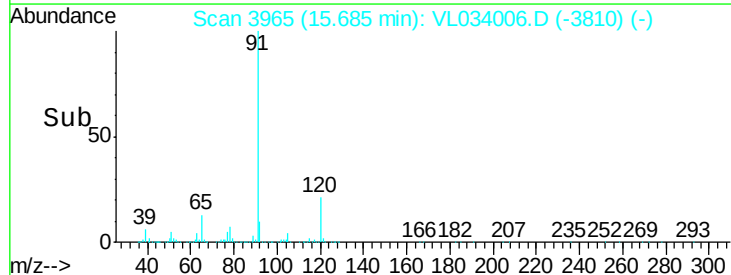
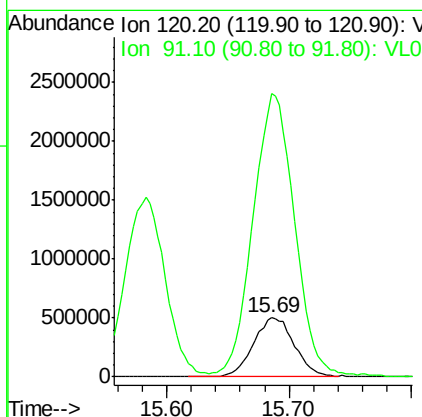
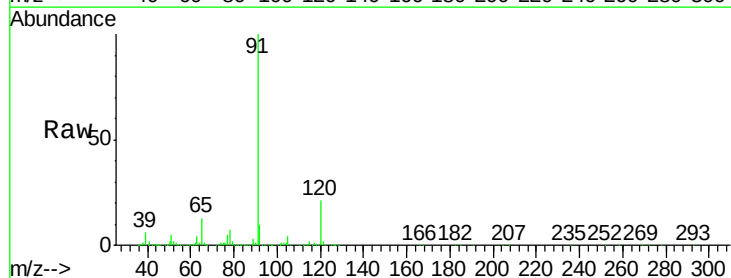
Manual Integrations
 APPROVED

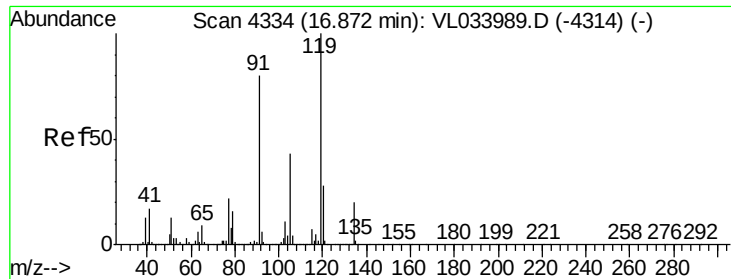
MMDadoda
 7/3/2019 11:03:47 PM



#64
 n-propylbenzene
 Concen: 8.522 ppbv
 RT: 15.69 min Scan# 3965
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Tgt Ion:120 Resp: 1163145
 Ion Ratio Lower Upper
 120 100
 91 491.6 386.6 579.8





#65

tert-Butylbenzene

Concen: 9.346 ppbv

RT: 16.88 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 119 Resp: 4182965

Ion Ratio Lower Upper

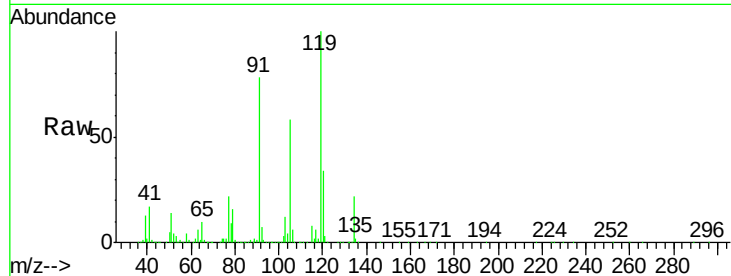
119 100

91 83.5 67.0 100.6

134 19.7 15.8 23.6

Manual Integrations
APPROVED

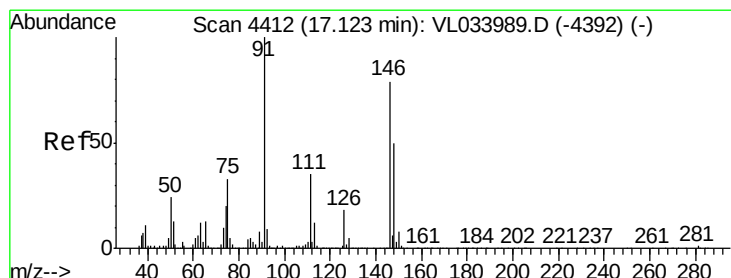
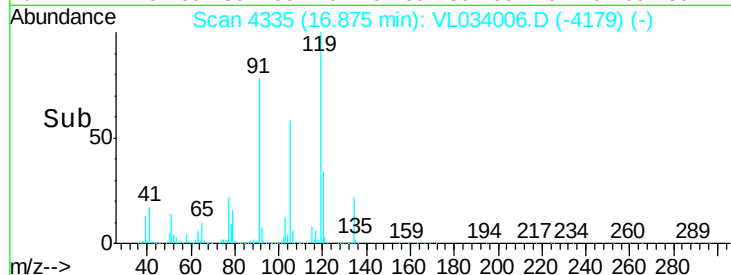
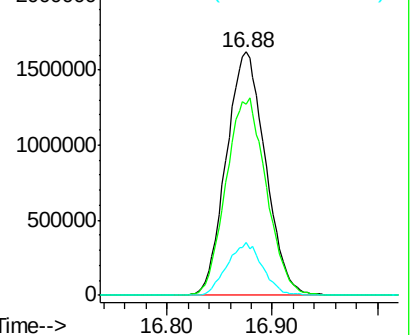
MMDadoda
7/3/2019 11:03:47 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.174 ppbv

RT: 17.12 min Scan# 4411

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

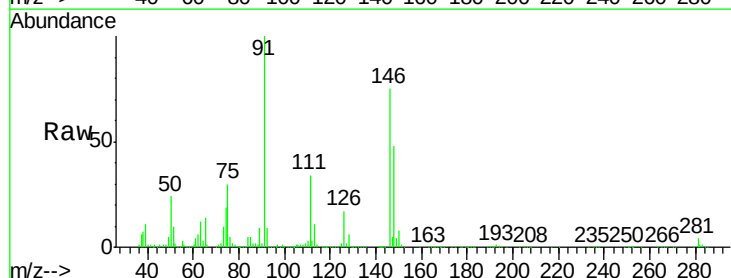
Tgt Ion: 91 Resp: 2329955

Ion Ratio Lower Upper

91 100

126 17.4 13.9 20.9

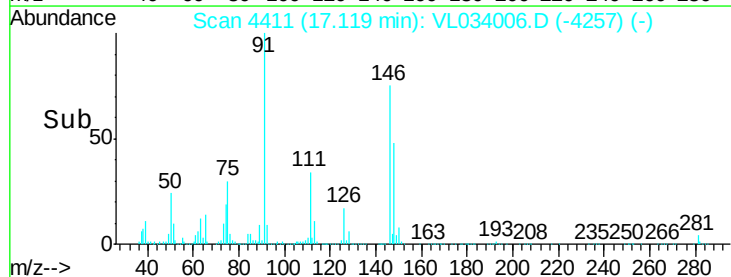
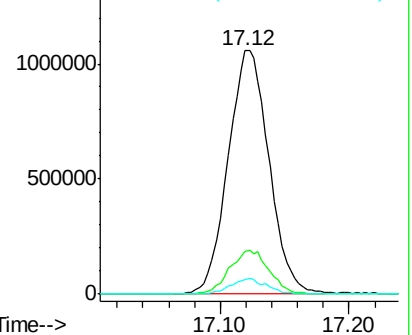
128 5.8 4.6 7.0

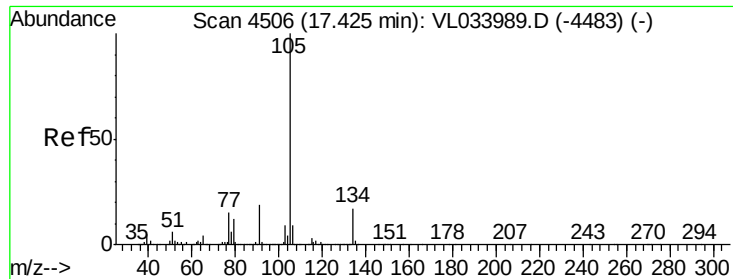


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.429 ppbv

RT: 17.42 min Scan# 4506

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 5923724

Ion Ratio Lower Upper

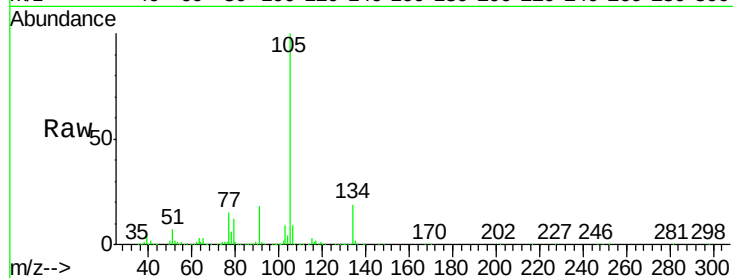
105 100

134 18.5 14.7 22.1

Manual Integrations
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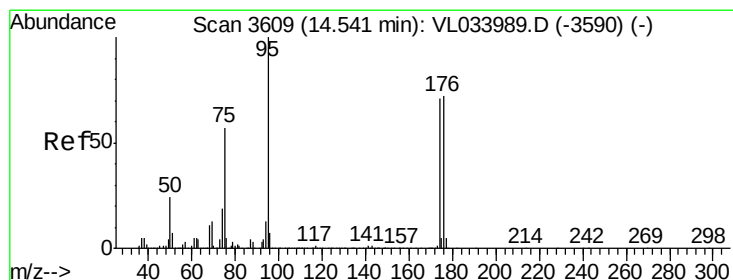
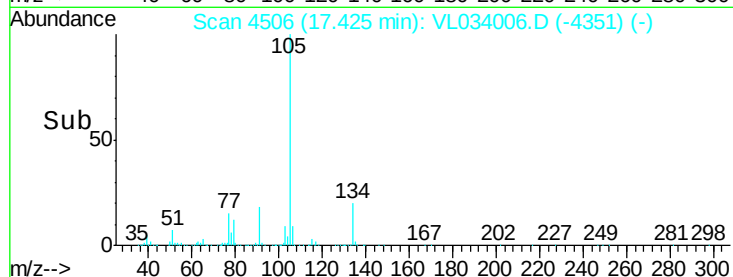
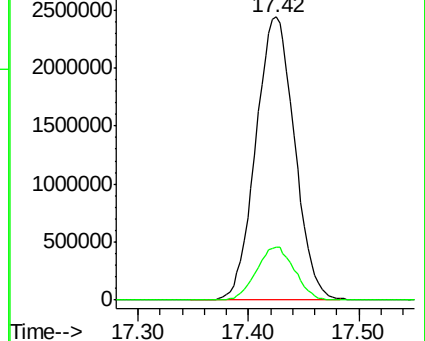
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.638 ppbv

RT: 14.54 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

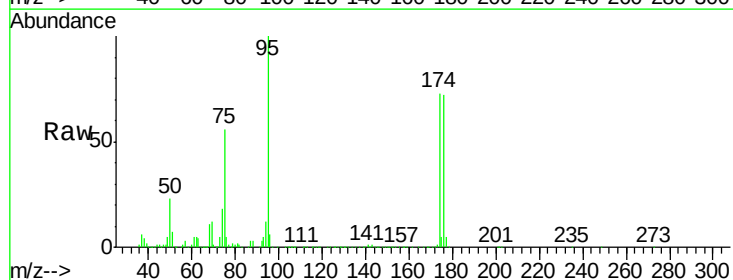
Tgt Ion: 95 Resp: 2315680

Ion Ratio Lower Upper

95 100

174 74.0 60.5 90.7

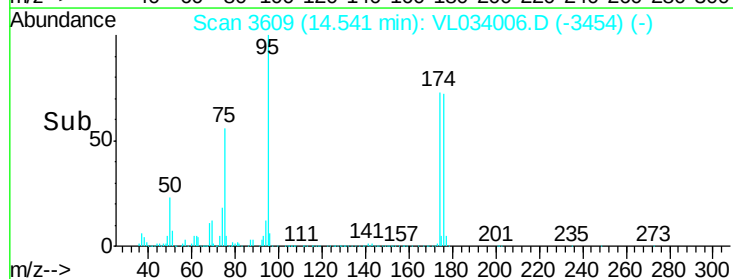
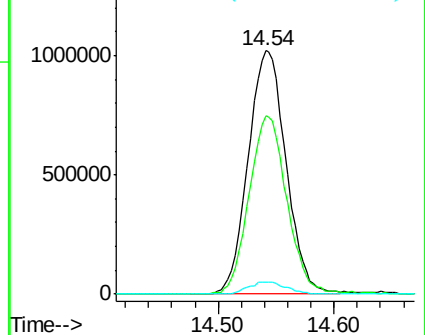
175 5.1 4.0 6.0

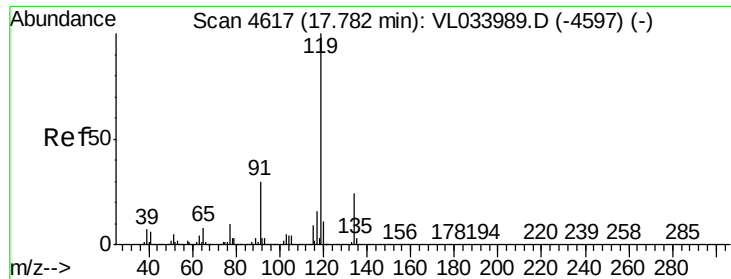


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





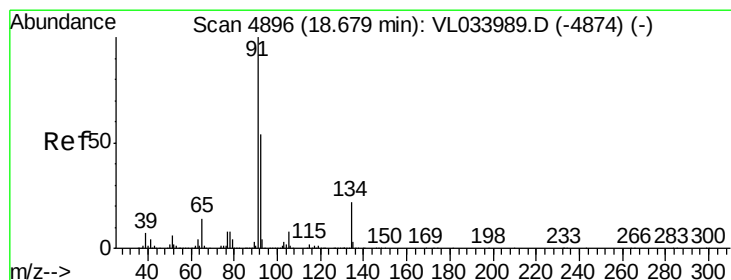
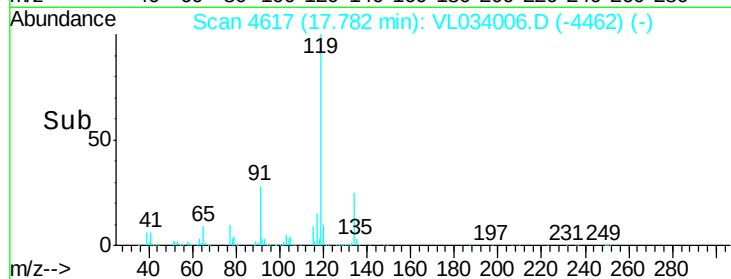
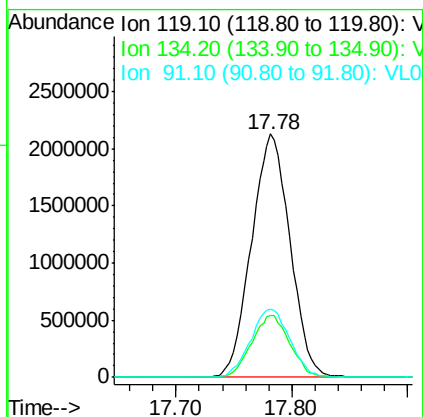
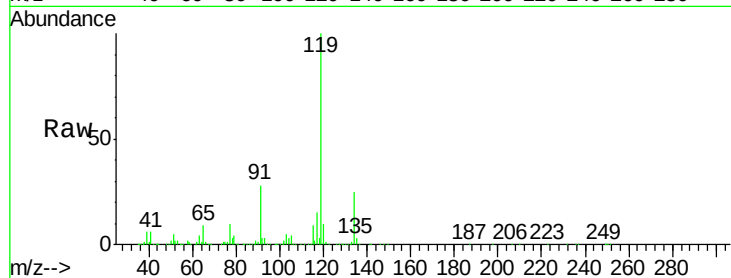
#69
 p-Isopropyltoluene
 Concen: 9.496 ppbv
 RT: 17.78 min Scan# 4617
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	28.7	23.6	35.4

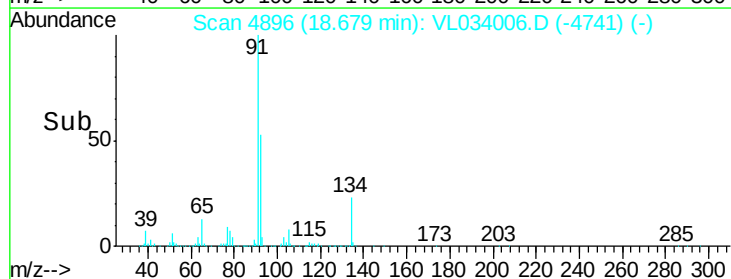
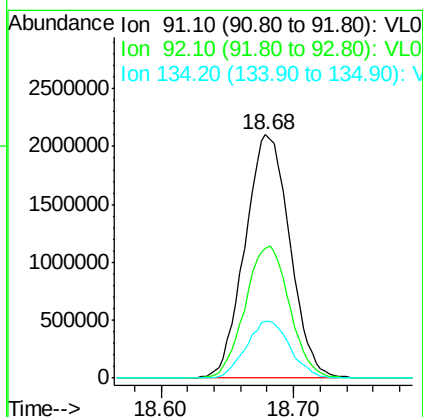
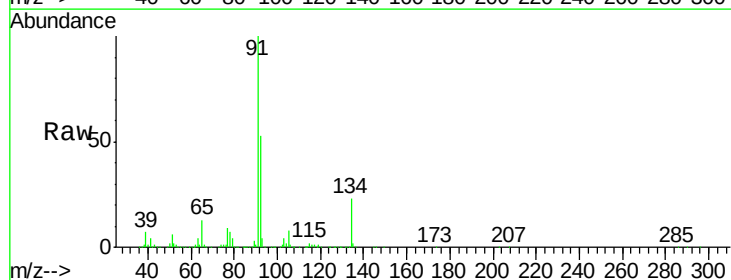
Manual Integrations
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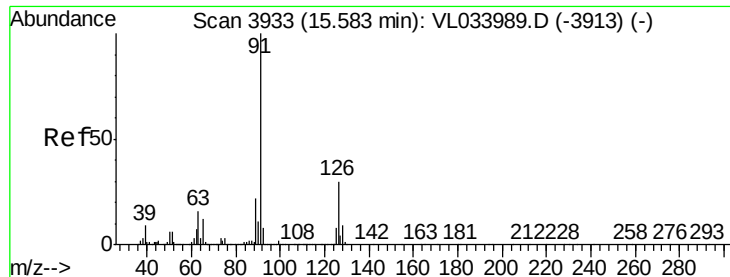
MMDadoda
 7/3/2019 11:03:47 PM



#70
 n-Butylbenzene
 Concen: 9.087 ppbv
 RT: 18.68 min Scan# 4896
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.0	42.0	63.0
134	22.9	17.9	26.9





#71

2-Chlorotoluene

Concen: 8.964 ppbv

RT: 15.58 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3453083

Ion Ratio Lower Upper

91 100

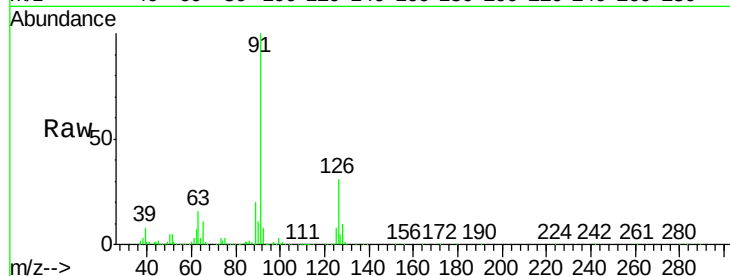
126 30.6 12.3 49.3

Manual Integrations

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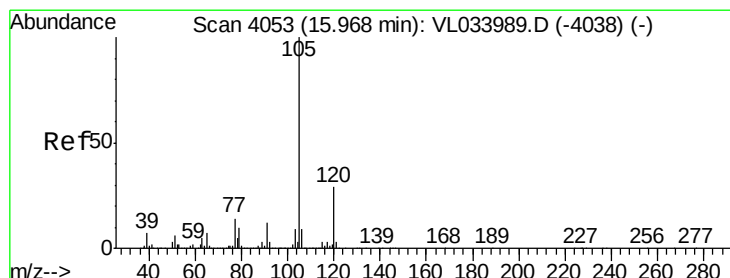
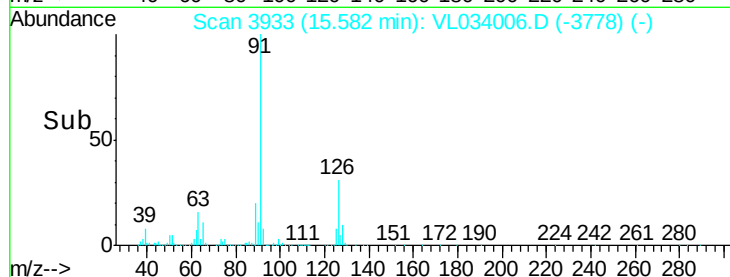
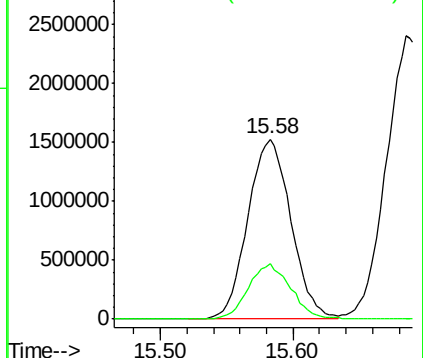
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.108 ppbv

RT: 15.97 min Scan# 4052

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Tgt Ion: 105 Resp: 4004653

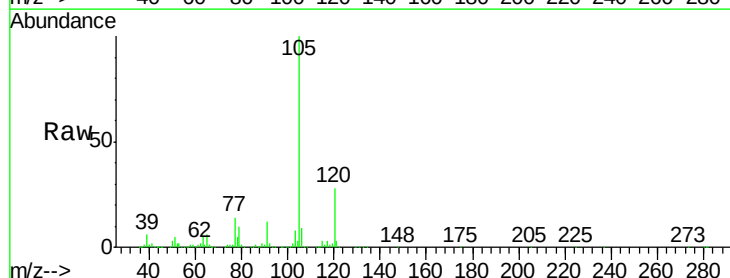
Ion Ratio Lower Upper

105 100

120 30.2 24.1 36.1

91 13.7 10.6 16.0

77 14.1 11.5 17.3

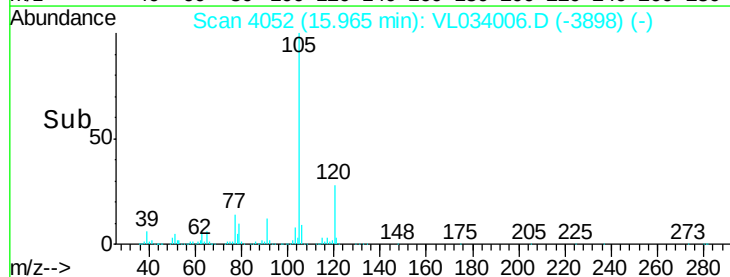
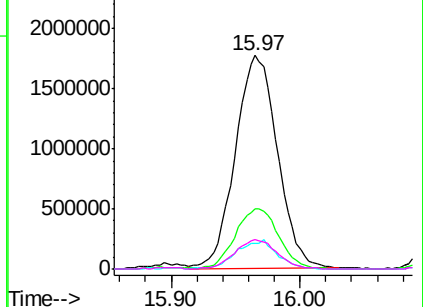


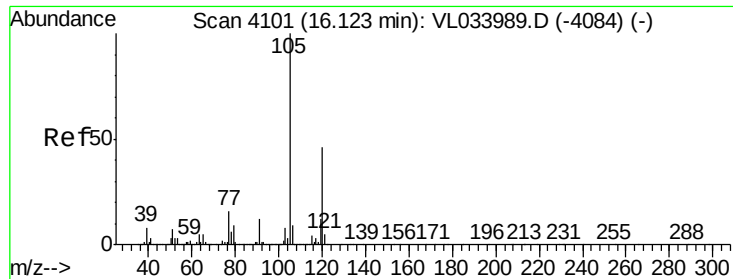
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.445 ppbv

RT: 16.12 min Scan# 4101

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3864174

Ion Ratio Lower Upper

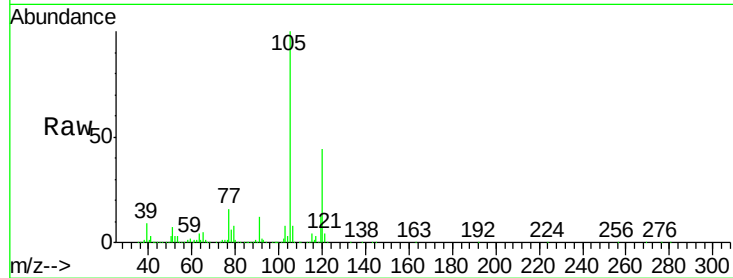
105 100

120 43.6 36.4 54.6

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

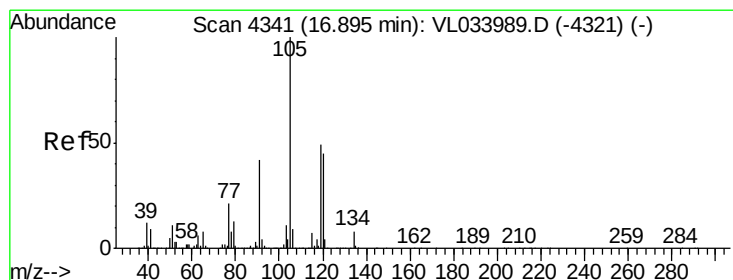
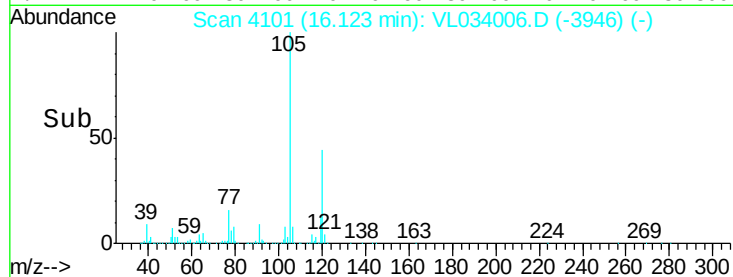
1000000

500000

0

16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.003 ppbv

RT: 16.89 min Scan# 4339

Delta R.T. -0.01 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Tgt Ion:105 Resp: 4079349

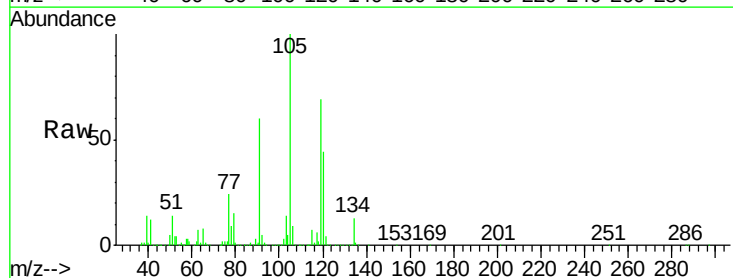
Ion Ratio Lower Upper

105 100

120 44.4 36.2 54.2

91 59.5 34.3 51.5#

77 24.1 17.1 25.7



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

2500000

2000000

1500000

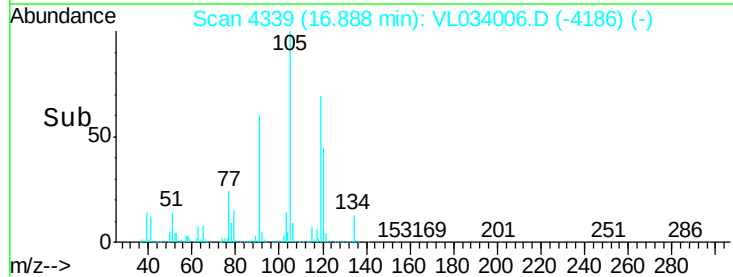
1000000

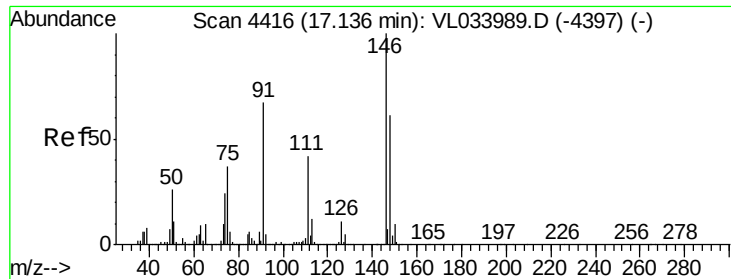
500000

0

16.80 16.90

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.535 ppbv

RT: 17.13 min Scan# 4415

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2456643

Ion Ratio Lower Upper

146 100

111 44.0 22.3 66.9

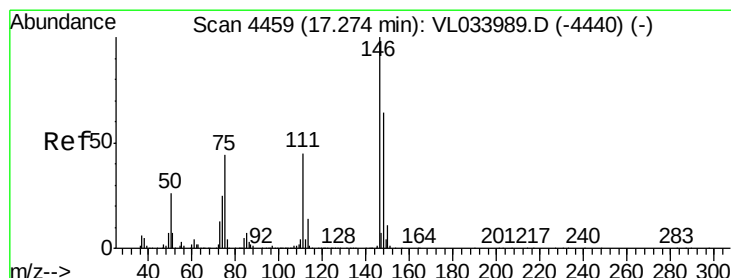
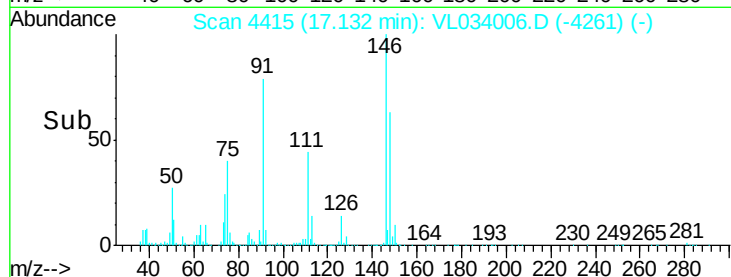
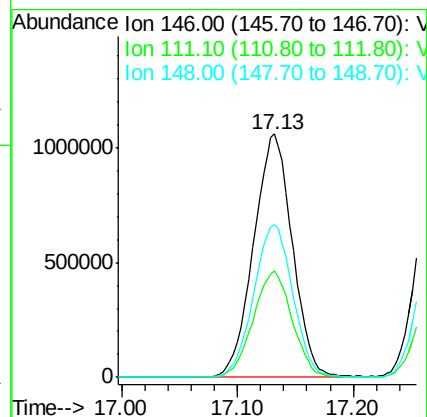
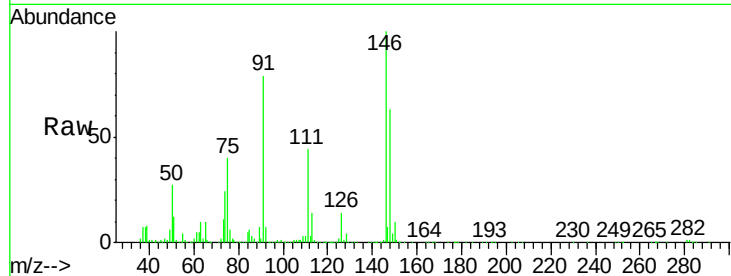
148 63.3 32.0 96.2

Manual Integrations

APPROVED

MMDadoda

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#76

1,4-Dichlorobenzene

Concen: 8.983 ppbv

RT: 17.27 min Scan# 4459

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

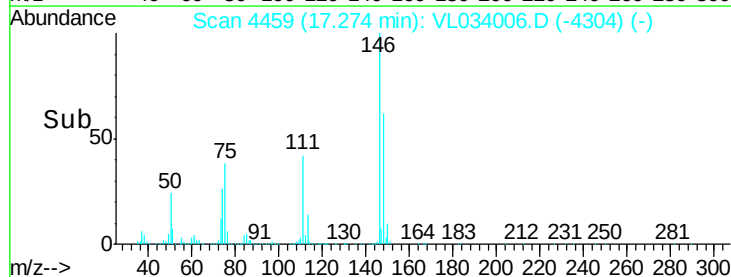
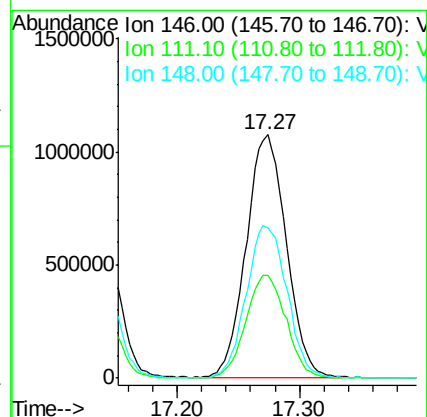
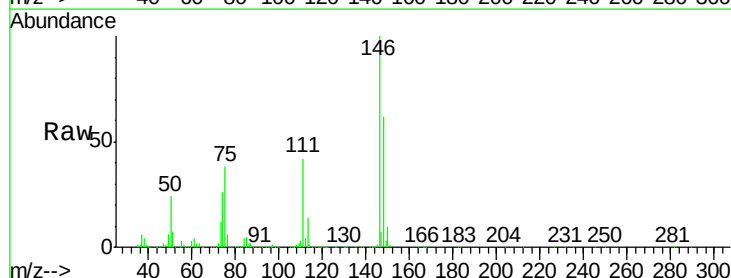
Tgt Ion:146 Resp: 2435293

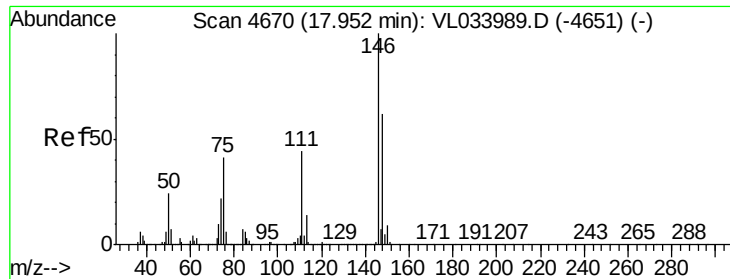
Ion Ratio Lower Upper

146 100

111 42.8 21.9 65.5

148 64.1 32.5 97.5





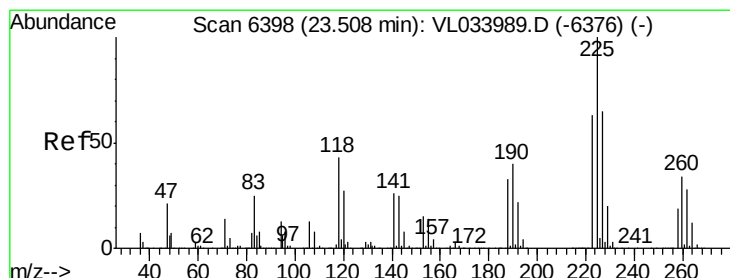
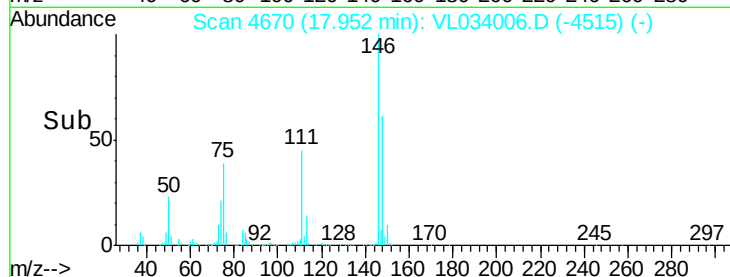
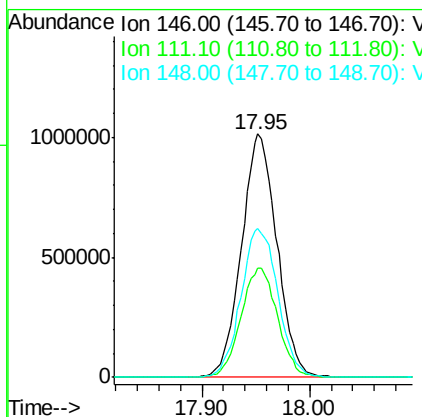
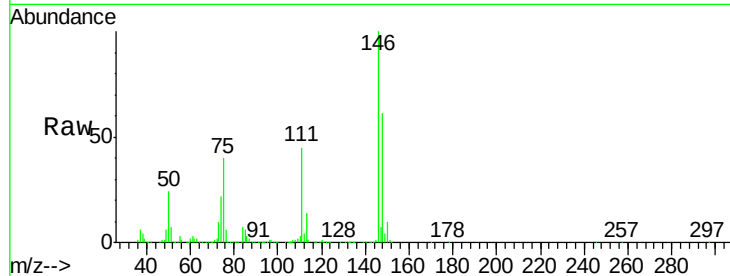
#77
 1,2-Dichlorobenzene
 Concen: 8.680 ppbv
 RT: 17.95 min Scan# 4670
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2313397
 Ion Ratio Lower Upper
 146 100
 111 46.5 22.7 68.1
 148 64.0 32.1 96.3

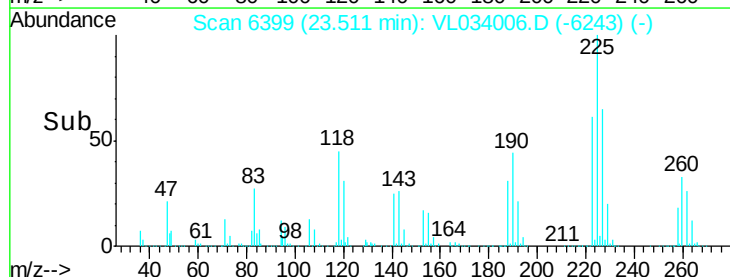
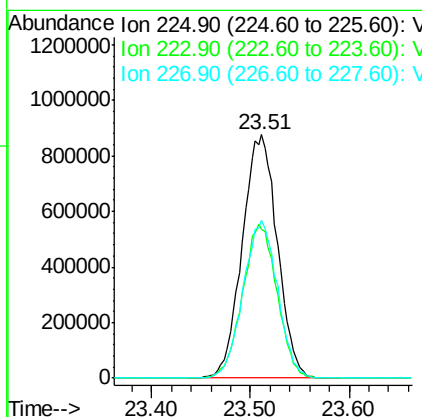
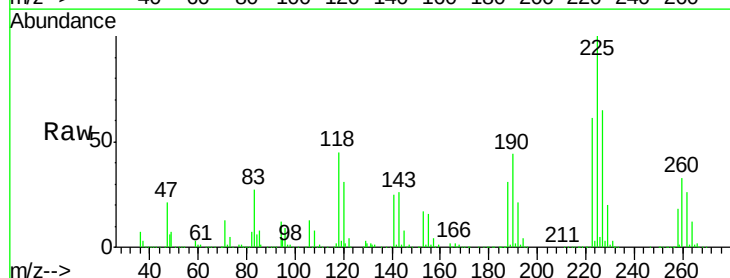
Manual Integrations
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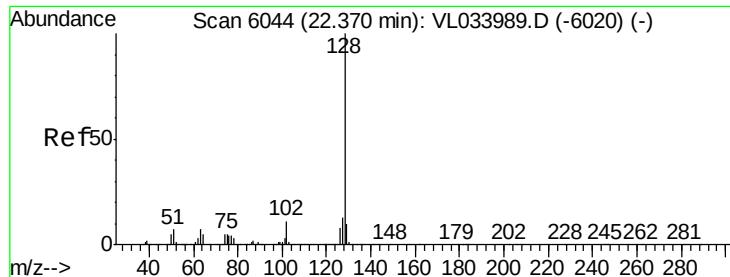
MMDadoda
 7/3/2019 11:03:47 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.458 ppbv
 RT: 23.51 min Scan# 6399
 Delta R.T. 0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Tgt Ion:225 Resp: 2145030
 Ion Ratio Lower Upper
 225 100
 223 62.2 51.5 77.3
 227 63.6 52.1 78.1





#79

Naphthalene

Concen: 9.873 ppbv

RT: 22.37 min Scan# 6044

Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Instrument :

MSVOA_L

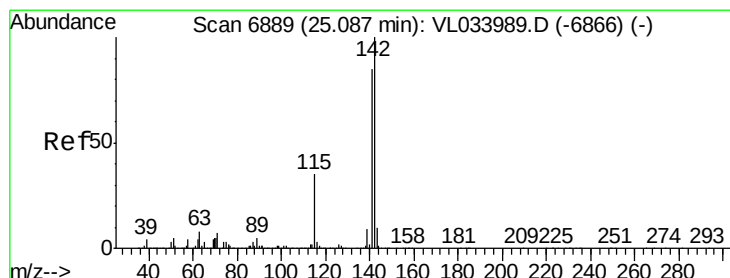
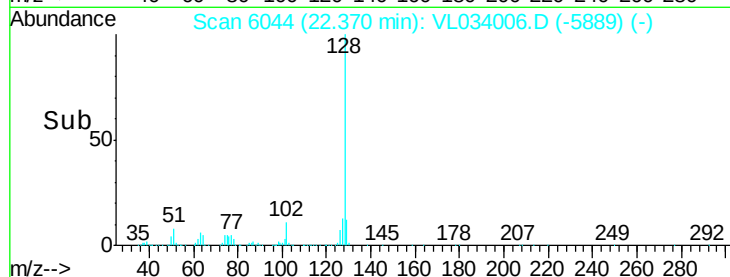
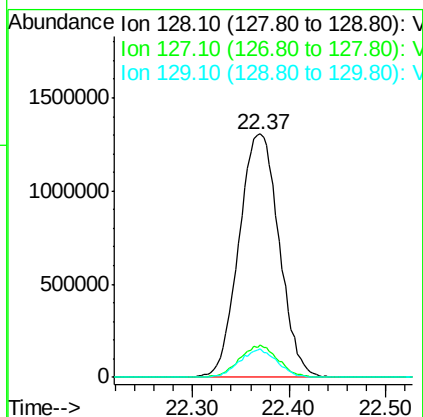
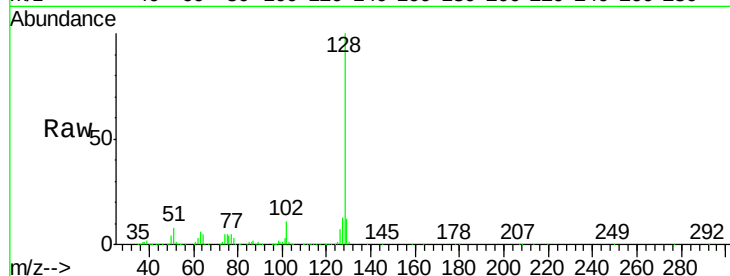
ClientSampleId :

VSTDCCC010EC

Tot Ion:	128	Resp:	3761441
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	15.8
129	11.6	8.3	12.5

Manual Integrations
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#80

Naphthalene, 2-methyl-

Concen: 14.449 ppbv

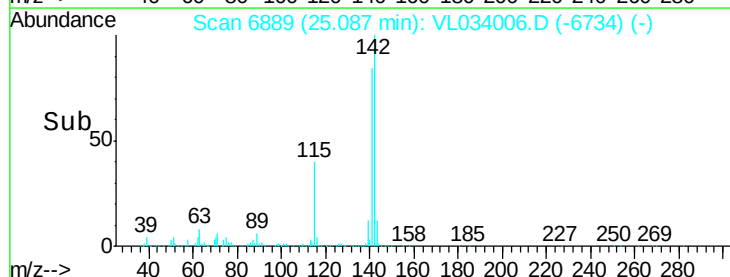
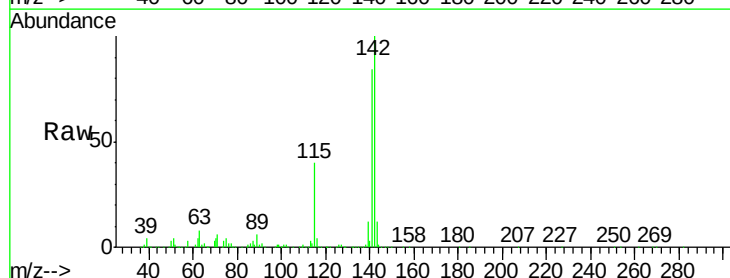
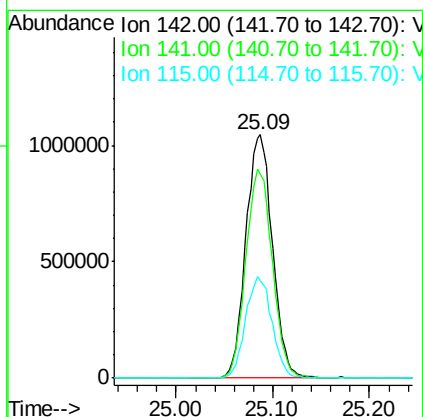
RT: 25.09 min Scan# 6889

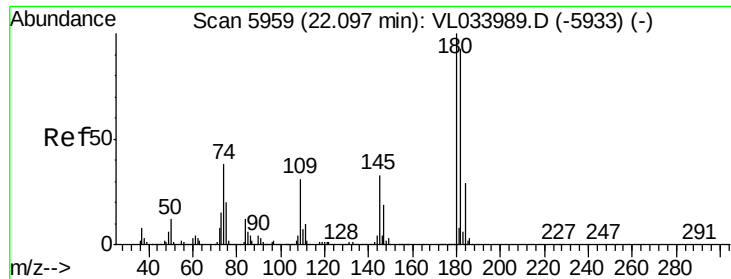
Delta R.T. -0.00 min

Lab File: VL034006.D

Acq: 3 Jul 2019 9:46

Tgt Ion:	142	Resp:	2003060
Ion	Ratio	Lower	Upper
142	100		
141	85.9	68.2	102.2
115	41.4	29.9	44.9





#81
 1,2,4-Trichlorobenzene
 Concen: 9.157 ppbv
 RT: 22.09 min Scan# 5958
 Delta R.T. -0.00 min
 Lab File: VL034006.D
 Acq: 3 Jul 2019 9:46

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.6	114.8
184	30.8	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:47 PM

