

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080519\
 Data File : VL034086.D
 Acq On : 5 Aug 2019 12:43
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:05 PM

Quant Time: Aug 05 14:02:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 0
 QLast Update : Fri Aug 02 09:11:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1059072	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2249719	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2413654m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1928914	9.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1113457	5.509	ppbv	97
3) Chlorodifluoromethane	2.98	51	1099231	8.805	ppbv	92
4) Chloromethane	3.14	50	726300	10.081	ppbv	95
5) Vinyl Chloride	3.26	62	656613	9.205	ppbv	93
6) Bromomethane	3.48	94	340426	6.383	ppbv	98
7) Chloroethane	3.57	64	236574	6.874	ppbv	90
8) Dichlorotetrafluoroethane	3.19	85	1330046	6.731	ppbv	96
9) Propene	3.01	41	651262	13.512	ppbv	97
10) Heptane	8.19	43	1694565	12.696	ppbv	88
11) Trichlorofluoromethane	3.97	101	1376353	6.800	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.51	101	974358	6.324	ppbv	93
13) Ethanol	3.62	45	125432	6.420	ppbv #	100
14) Bromoethene	3.75	108	452060	5.238	ppbv	99
15) Acetone	3.87	43	1223800	7.021	ppbv	98
16) 1,3-Butadiene	3.33	39	679226	10.650	ppbv	93
17) tert-Butyl alcohol	4.32	59	1332286	10.528	ppbv	99
18) 1,1-Dichloroethene	4.31	96	467093	6.925	ppbv	82
19) Isopropyl Alcohol	3.98	45	1019075	9.473	ppbv #	17
20) Methylene Chloride	4.37	84	404480	6.442	ppbv #	83
21) Allyl Chloride	4.44	41	967043	9.154	ppbv	94
22) trans-1,2-Dichloroethene	4.92	96	465038	6.765	ppbv	90
23) Vinyl Acetate	5.11	43	2270397	12.641	ppbv #	97
24) 1,1-Dichloroethane	5.05	63	1358179	9.004	ppbv	98
25) Ethyl Acetate	5.72	43	2641980	10.246	ppbv	98
26) Hexane	5.74	57	1120573	9.600	ppbv	95
27) Carbon Disulfide	4.58	76	1274086	7.331	ppbv #	91
28) Methyl tert-Butyl Ether	5.07	73	1915425	10.932	ppbv	95
29) Chloroform	5.80	83	1552448	7.644	ppbv	98
30) Cyclohexane	7.20	84	910486	9.781	ppbv #	74
31) cis-1,2-Dichloroethene	5.60	61	1138240	9.941	ppbv	97
32) 1,1,1-Trichloroethane	6.57	97	1528296	7.137	ppbv	99
34) 2-Butanone	5.28	43	1834125	14.233	ppbv	91
35) Carbon Tetrachloride	7.08	117	1511838	8.317	ppbv	98
36) Benzene	6.96	78	2216711	10.337	ppbv	95
37) 1,2-Dichloroethane	6.37	62	1253215	8.958	ppbv	99
38) Trichloroethene	7.91	130	775047	10.698	ppbv	96
39) 1,2-Dichloropropane	7.69	63	919905	11.859	ppbv	95
40) 1,4-Dioxane	7.90	88	335008	11.269	ppbv #	81
41) Tetrahydrofuran	6.10	42	1149442	16.640	ppbv #	82
42) Bromodichloromethane	7.87	83	1738088	9.856	ppbv	99
43) Methyl Methacrylate	8.09	69	948038	12.817	ppbv	82

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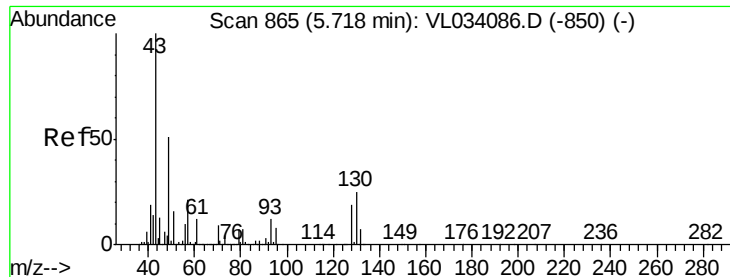
Manual Integrations
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Quant Time: Aug 05 14:02:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 0
 QLast Update : Fri Aug 02 09:11:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3791233	11.840	ppbv	94
45) t-1,3-Dichloropropene	9.36	75	1274195	13.938	ppbv	95
46) cis-1,3-Dichloropropene	8.79	75	1439760	13.568	ppbv	89
47) 1,1,2-Trichloroethane	9.57	97	889097m	10.645	ppbv	
48) Dibromochloromethane	10.40	129	1464207	10.360	ppbv	99
49) Bromoform	13.15	173	1330884	10.871	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2725180	14.239	ppbv	95
51) 2-Hexanone	10.22	43	2347525	15.909	ppbv #	97
52) Tetrachloroethene	11.32	164	797668	12.748	ppbv	91
53) Toluene	9.89	91	2540712	11.921	ppbv	94
54) 1,2-Dibromoethane	10.70	107	1339174	10.804	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.23	131	968996	9.108	ppbv #	54
57) Chlorobenzene	12.25	112	1828249	9.276	ppbv	97
58) Ethyl Benzene	12.81	91	3369605	10.577	ppbv	94
59) m/p-Xylene	13.09	91	5315798m	18.675	ppbv	
60) o-Xylene	13.80	91	2663569	9.312	ppbv	96
61) Styrene	13.63	104	2234455	11.936	ppbv	99
62) Isopropylbenzene	14.77	105	3560486	9.483	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.78	83	1863177	8.277	ppbv	100
64) n-propylbenzene	15.67	120	972661	10.244	ppbv	81
65) tert-Butylbenzene	16.85	119	3131281	9.290	ppbv	98
66) Benzyl Chloride	17.10	91	2092422	12.695	ppbv	95
67) sec-Butylbenzene	17.41	105	4314873	8.935	ppbv	96
69) p-Isopropyltoluene	17.76	119	3629321	9.227	ppbv	97
70) n-Butylbenzene	18.66	91	3815725	8.892	ppbv	95
71) 2-Chlorotoluene	15.56	91	2859207	10.287	ppbv	96
72) 4-Ethyltoluene	15.94	105	3155658	9.845	ppbv	98
73) 1,3,5-Trimethylbenzene	16.10	105	3023738	9.580	ppbv	93
74) 1,2,4-Trimethylbenzene	16.87	105	3024903	8.661	ppbv #	88
75) 1,3-Dichlorobenzene	17.11	146	1764210	8.532	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	1808295	9.261	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1760148	9.064	ppbv	99
78) Hexachloro-1,3-Butadiene	23.49	225	1269877	7.127	ppbv	99
79) Naphthalene	22.34	128	3156678	10.096	ppbv	95
80) Naphthalene, 2-methyl-	25.06	142	958200	7.985	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	1750245	9.050	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1059072

Ion Ratio Lower Upper

49 100

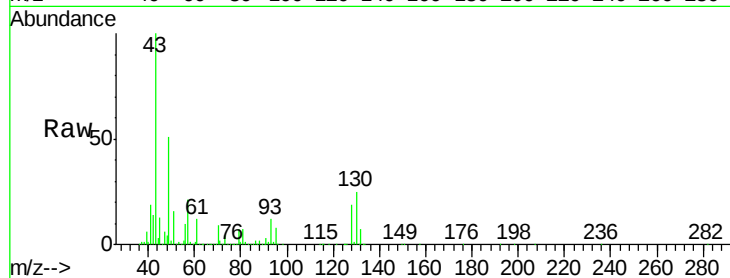
128 39.0 25.3 75.8

130 50.7 32.5 97.5

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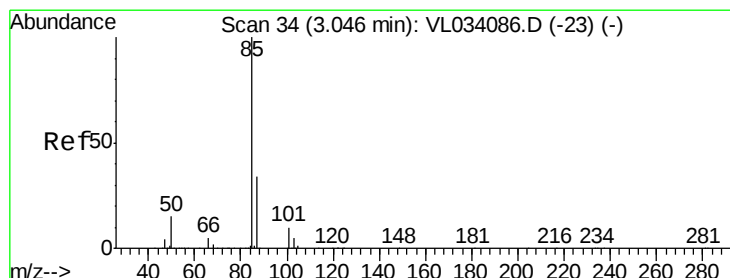
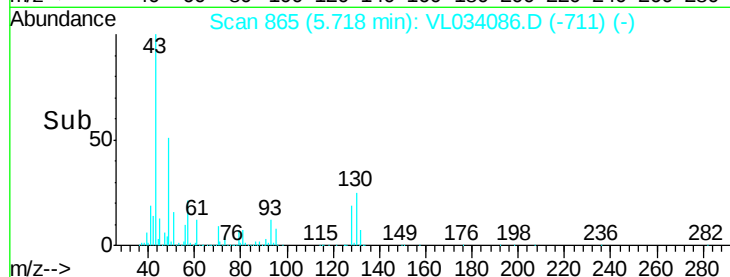
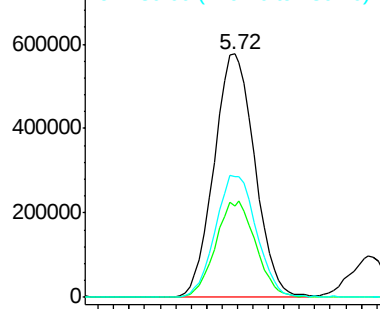
8/8/2019 12:41:05 PM



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: 5.509 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.00 min

Lab File: VL034086.D

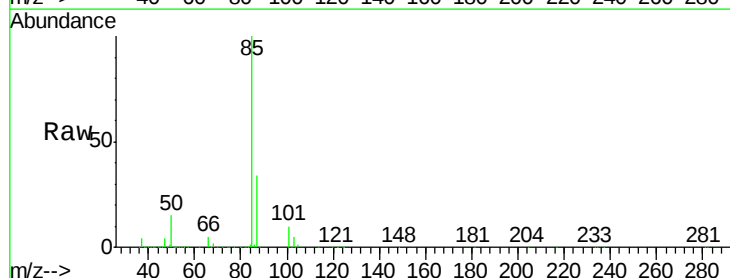
Acq: 5 Aug 2019 12:43

Tgt Ion: 85 Resp: 1113457

Ion Ratio Lower Upper

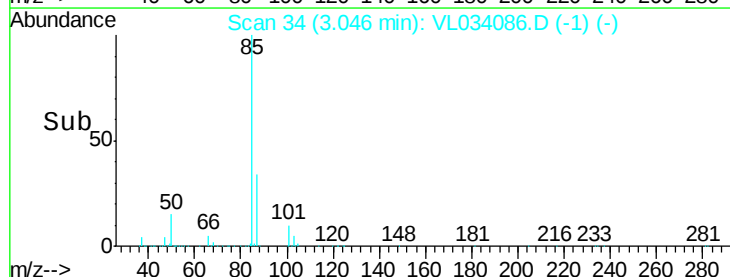
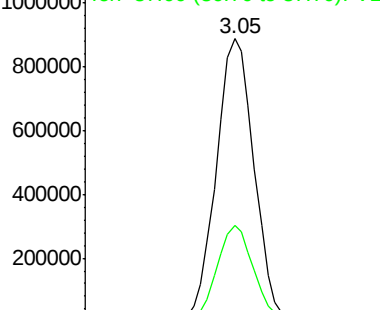
85 100

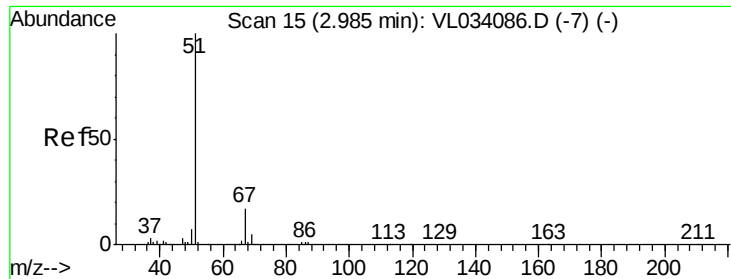
87 33.9 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





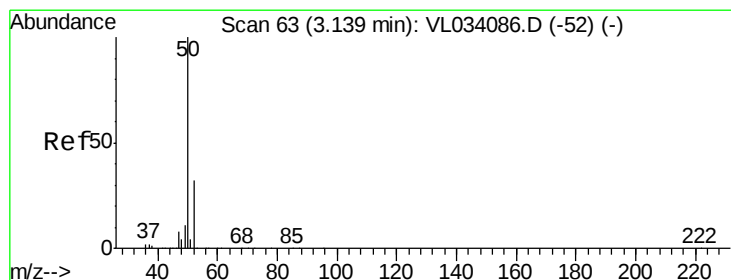
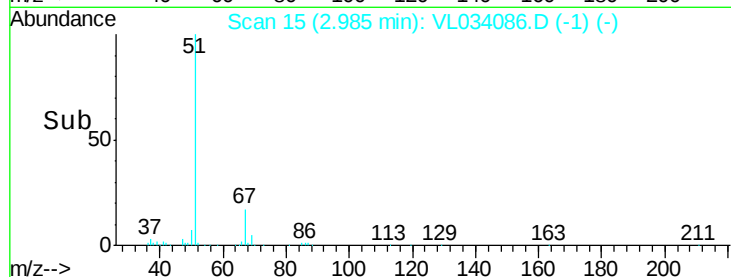
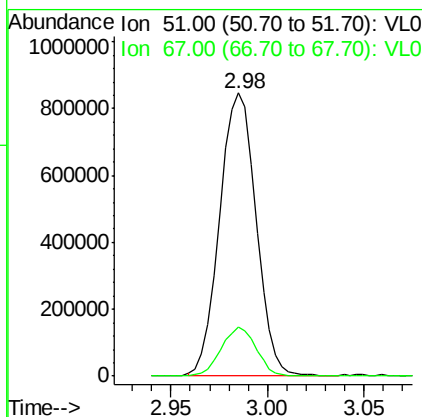
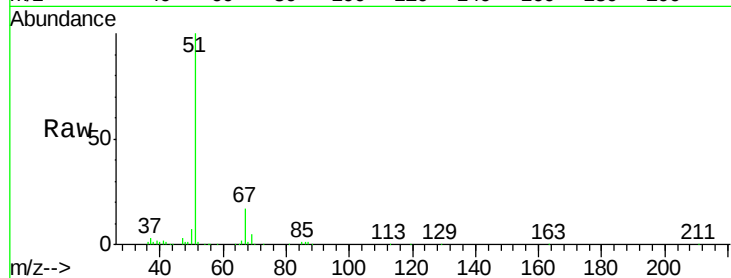
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 Chlorodifluoromethane
 Concen: 8.805 ppbv
 RT: 2.98 min Scan# 15
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 51 Resp: 1099231
 Ion Ratio Lower Upper
 51 100
 67 16.6 16.3 24.5

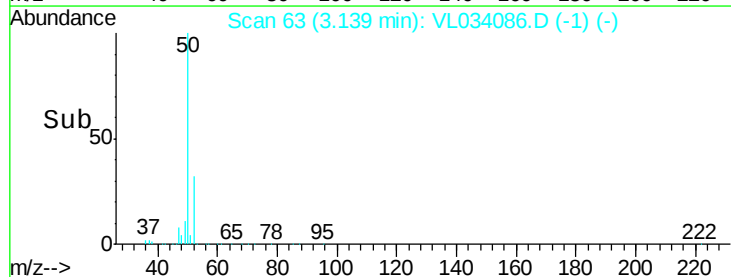
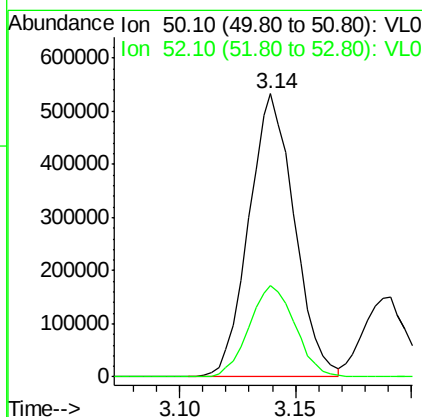
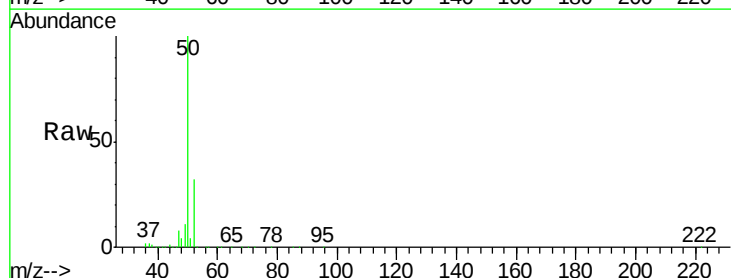
Manual Integrations
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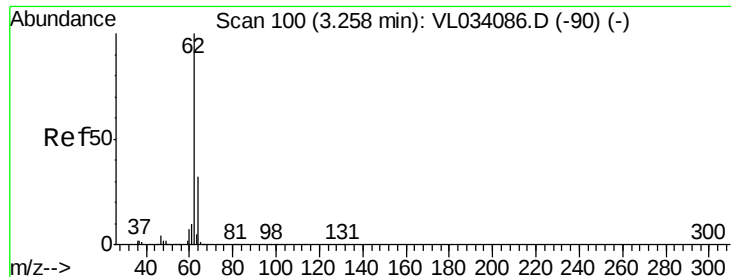
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#4
 Chloromethane
 Concen: 10.081 ppbv
 RT: 3.14 min Scan# 63
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion: 50 Resp: 726300
 Ion Ratio Lower Upper
 50 100
 52 32.1 28.2 42.2





#5

Vinyl Chloride

Concen: 9.205 ppbv

RT: 3.26 min Scan# 100

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 656613

Ion Ratio Lower Upper

62 100

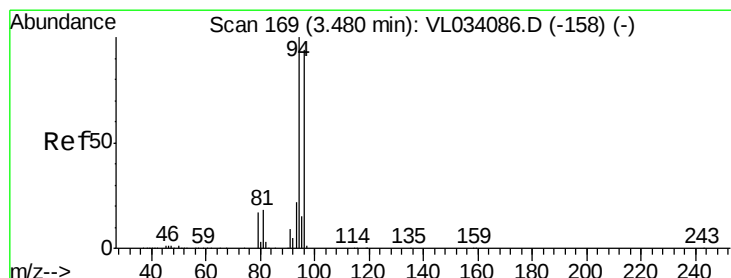
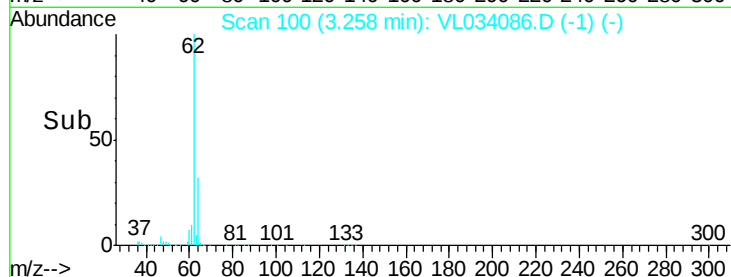
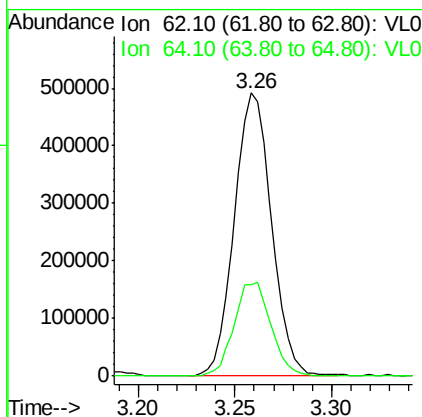
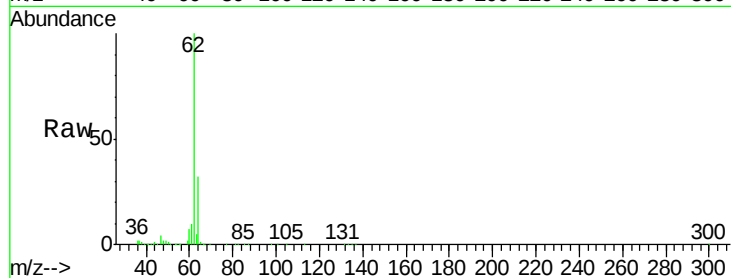
64 32.2 22.8 34.2

Manual Integrations

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#6

Bromomethane

Concen: 6.383 ppbv

RT: 3.48 min Scan# 169

Delta R.T. -0.00 min

Lab File: VL034086.D

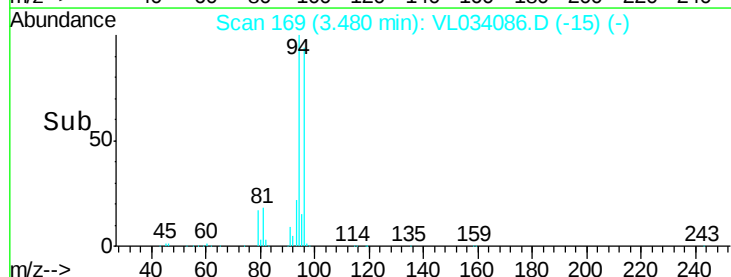
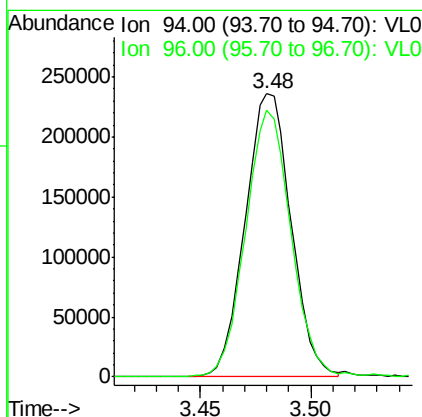
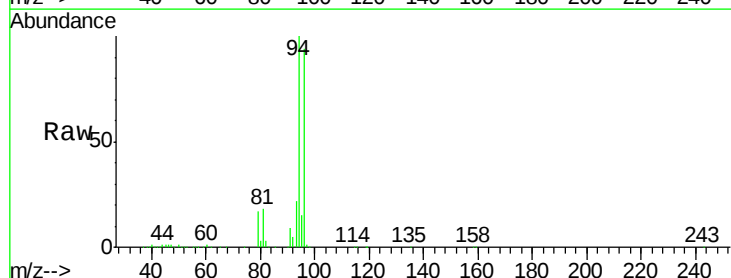
Acq: 5 Aug 2019 12:43

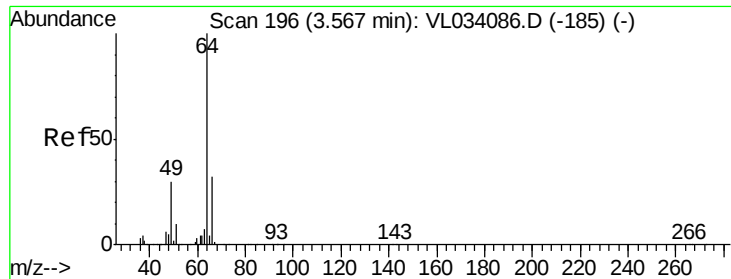
Tgt Ion: 94 Resp: 340426

Ion Ratio Lower Upper

94 100

96 94.1 76.8 115.2





#7

Chloroethane

Concen: 6.874 ppbv

RT: 3.57 min Scan# 196

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 236574

Ion Ratio Lower Upper

64 100

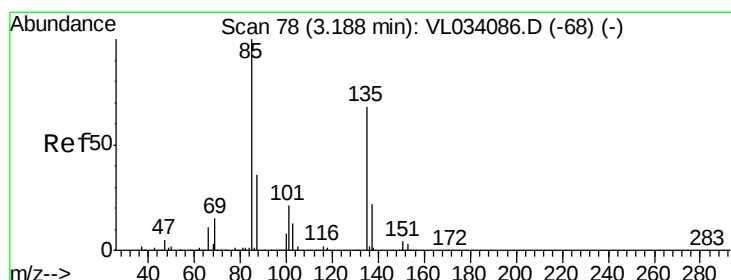
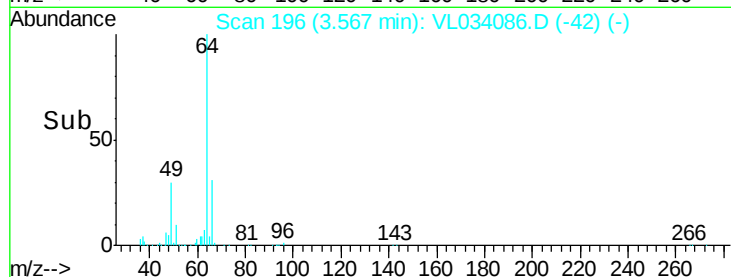
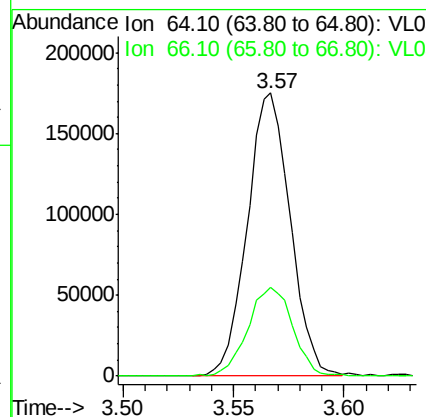
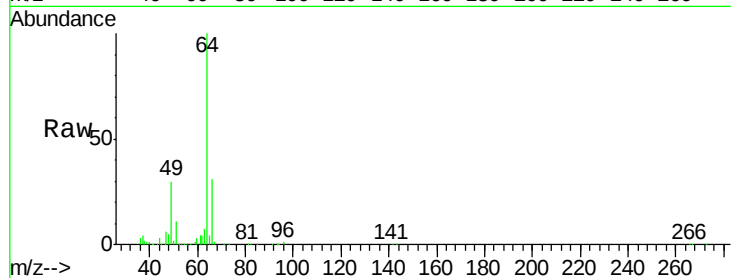
66 31.5 21.0 31.6

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#8

Dichlorotetrafluoroethane

Concen: 6.731 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.00 min

Lab File: VL034086.D

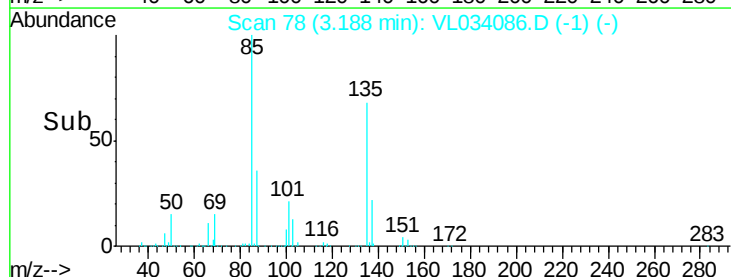
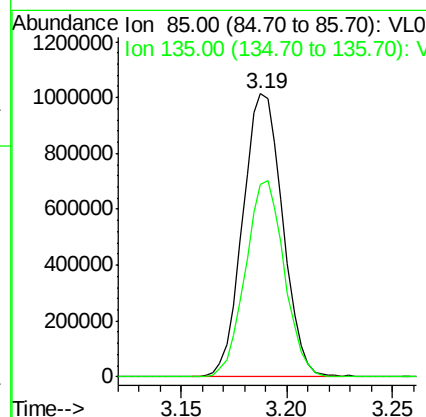
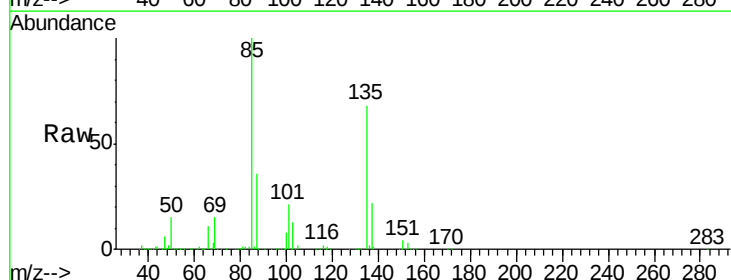
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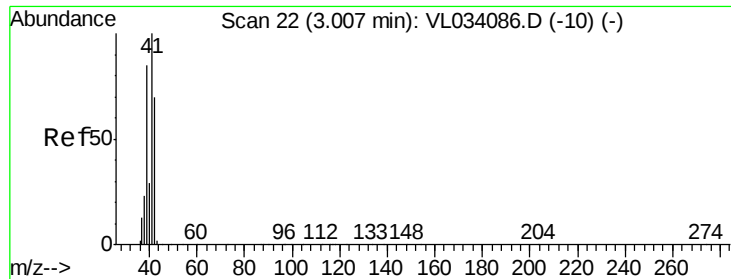
Tgt Ion: 85 Resp: 1330046

Ion Ratio Lower Upper

85 100

135 67.5 51.5 77.3





#9

Propene

Concen: 13.512 ppbv

RT: 3.01 min Scan# 22

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 651262

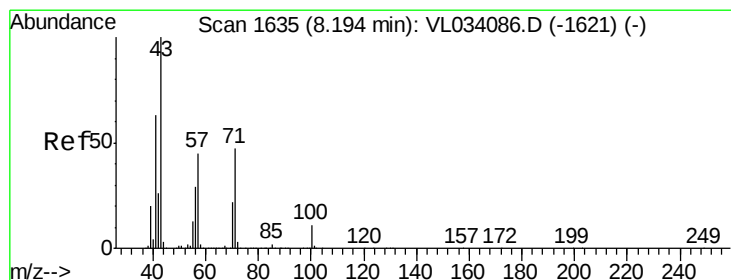
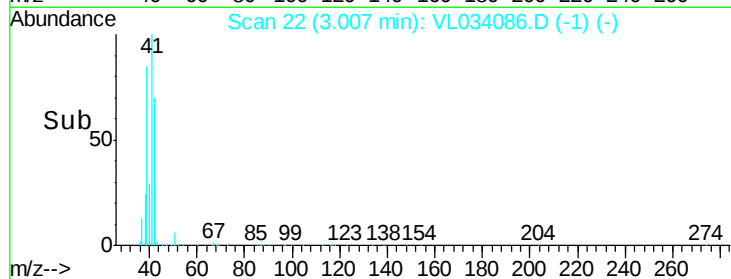
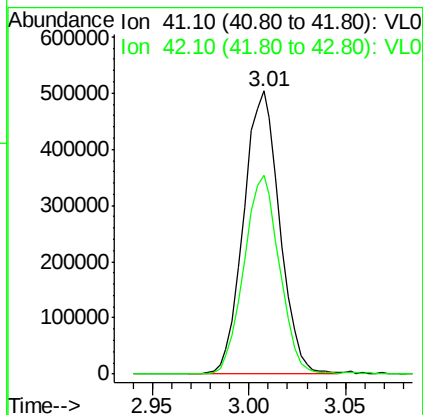
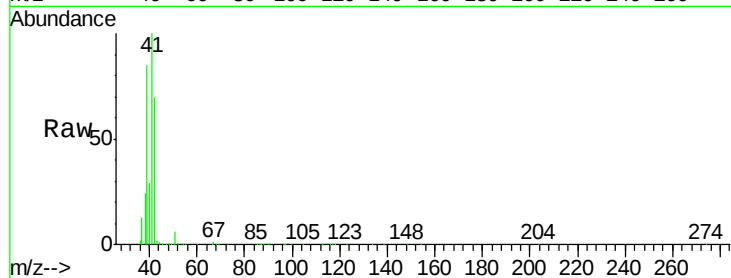
Ion Ratio Lower Upper

41 100

42 69.7 53.9 80.9

Manual Integrations
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#10

Heptane

Concen: 12.696 ppbv

RT: 8.19 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VL034086.D

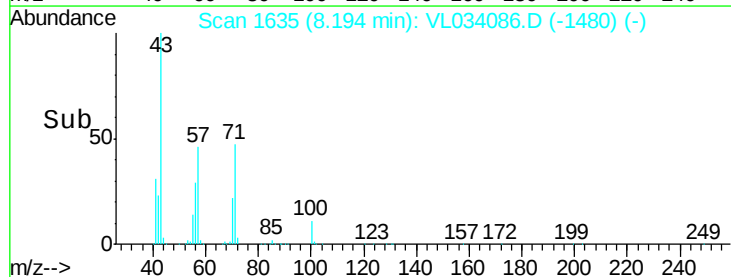
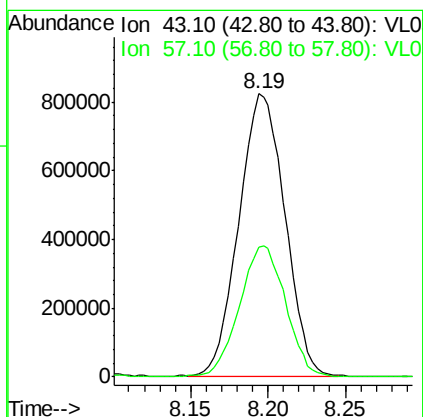
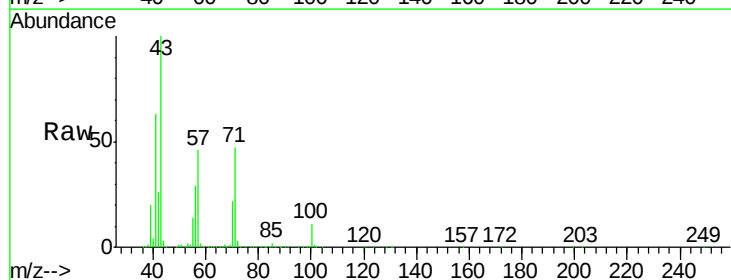
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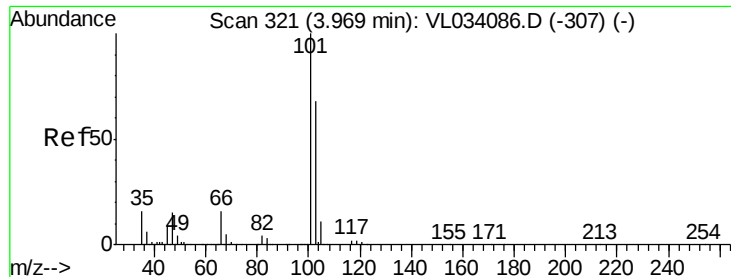
Tgt Ion: 43 Resp: 1694565

Ion Ratio Lower Upper

43 100

57 46.5 44.4 66.6





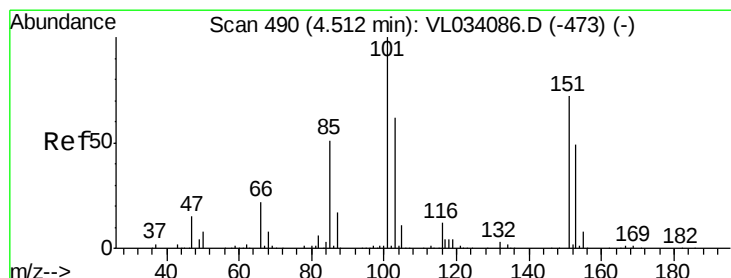
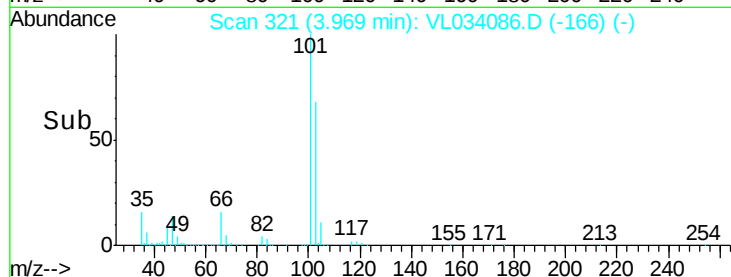
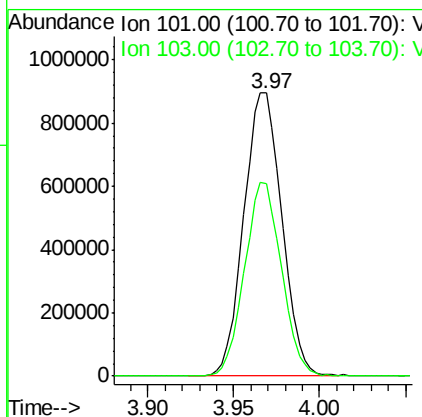
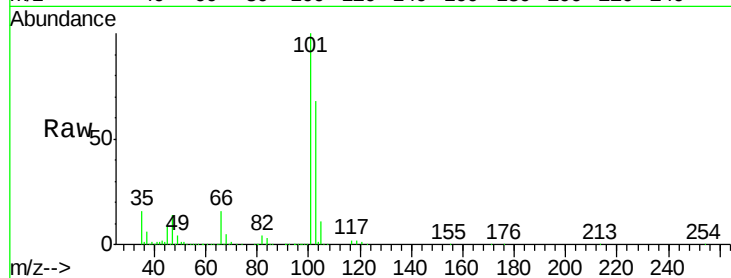
#11
 Trichlorofluoromethane
 Concen: 6.800 ppbv
 RT: 3.97 min Scan# 321
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 1376353
 Ion Ratio Lower Upper
 101 100
 103 67.9 50.2 75.2

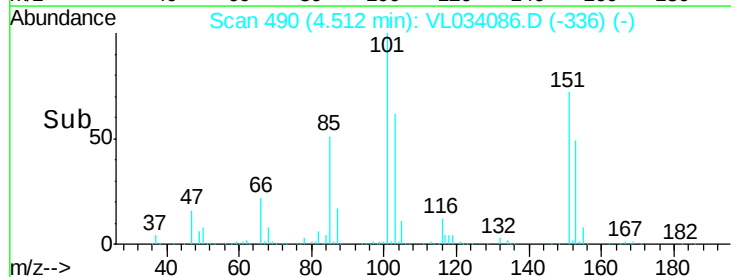
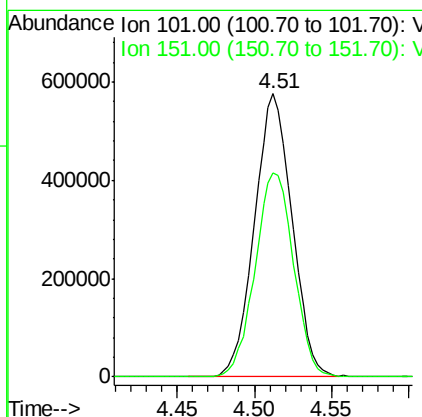
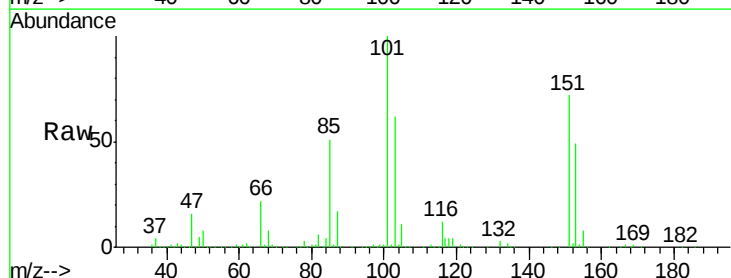
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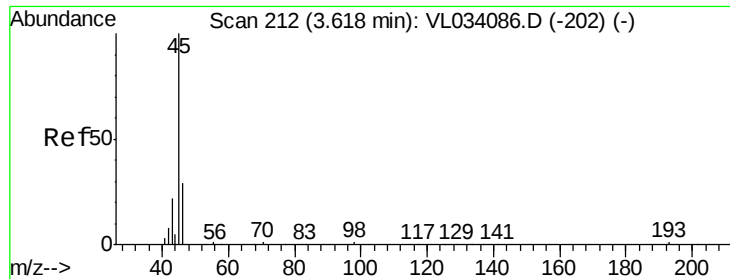
MMDadoda
 8/8/2019 12:41:05 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 6.324 ppbv
 RT: 4.51 min Scan# 490
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion:101 Resp: 974358
 Ion Ratio Lower Upper
 101 100
 151 74.2 54.5 81.7





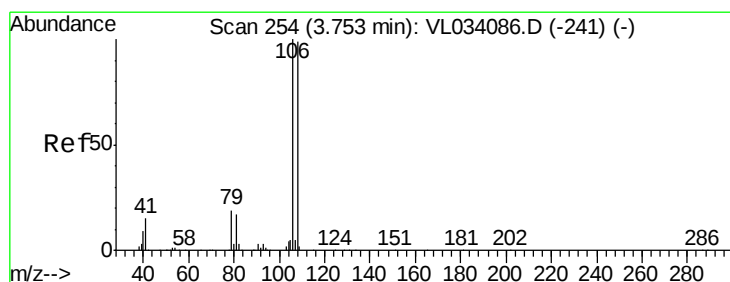
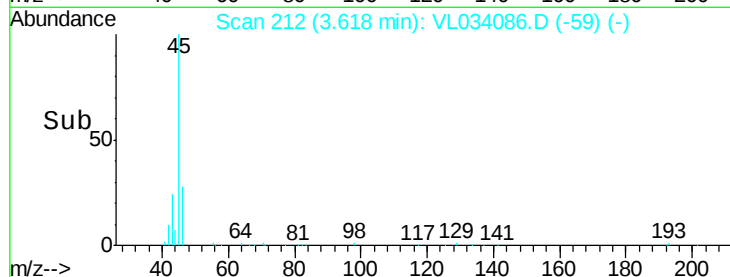
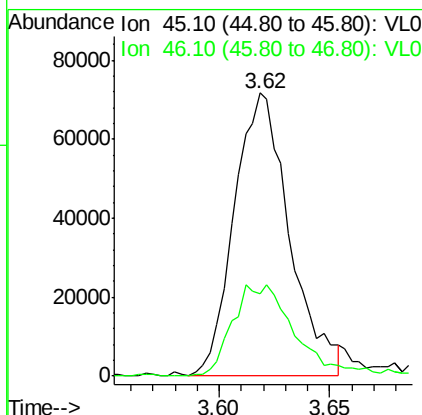
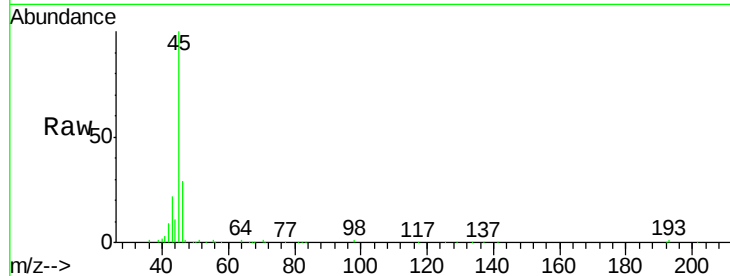
#13
Ethanol
Concen: 6.420 ppbv
RT: 3.62 min Scan# 212
Delta R.T. -0.01 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.2	0.0	0.0#

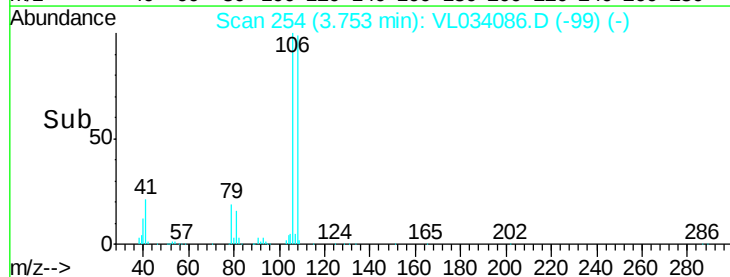
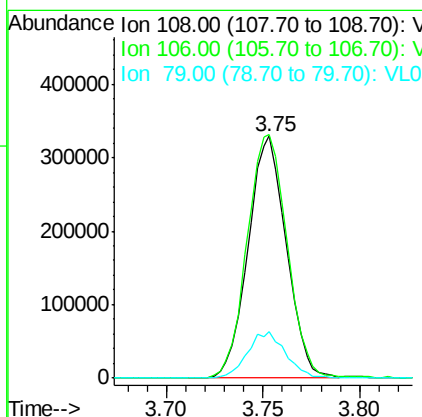
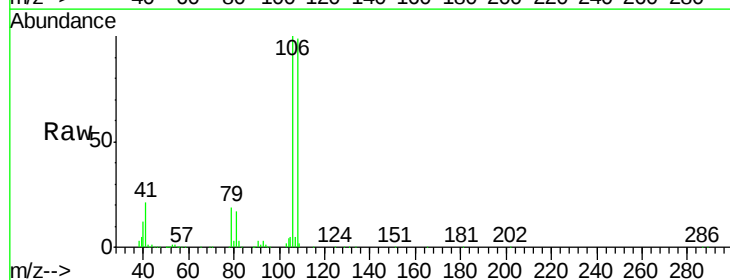
Manual Integrations
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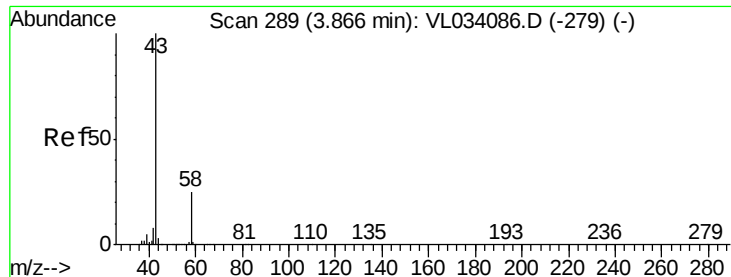
MMDadoda
8/8/2019 12:41:05 PM



#14
Bromoethene
Concen: 5.238 ppbv
RT: 3.75 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.3	85.5	128.3
79	19.8	13.3	19.9





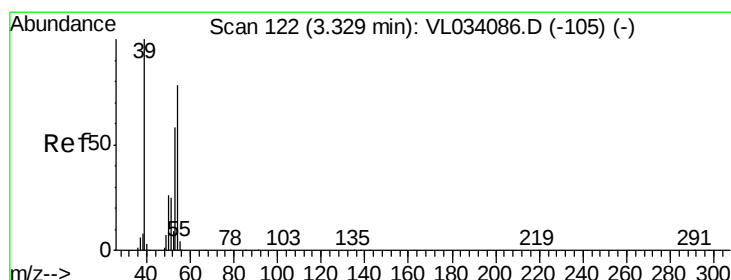
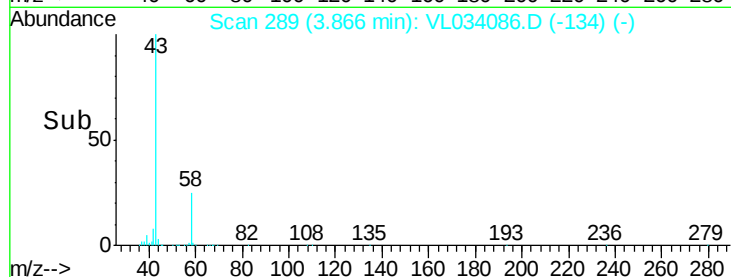
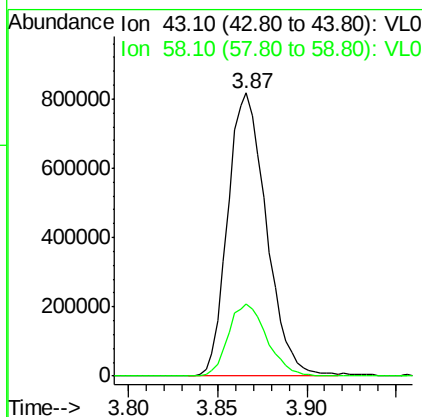
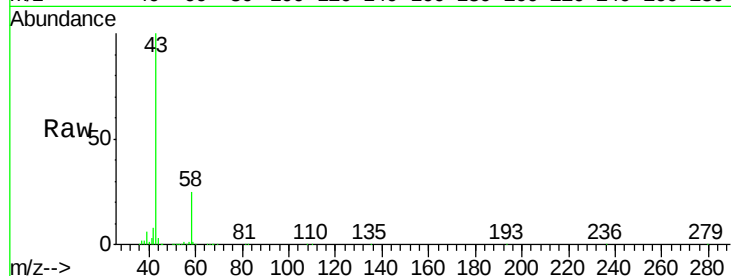
#15
Acetone
Concen: 7.021 ppbv
RT: 3.87 min Scan# 289
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 1223800
Ion Ratio Lower Upper
43 100
58 25.7 21.2 31.8

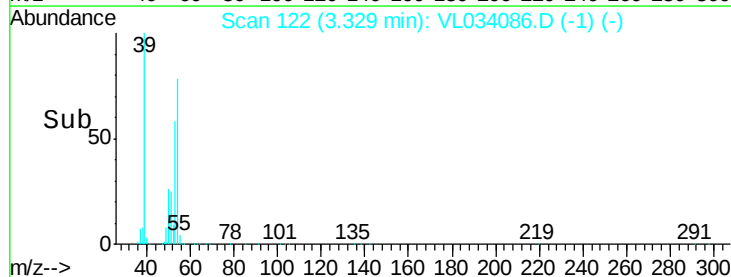
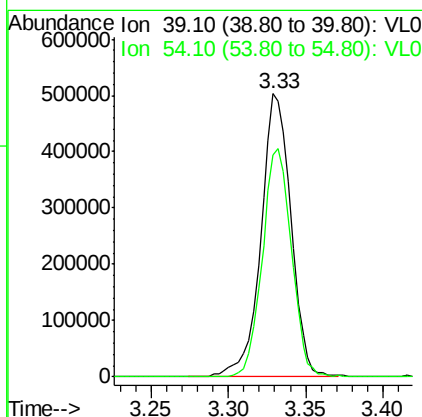
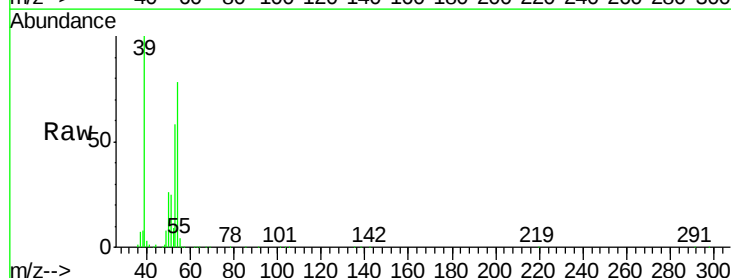
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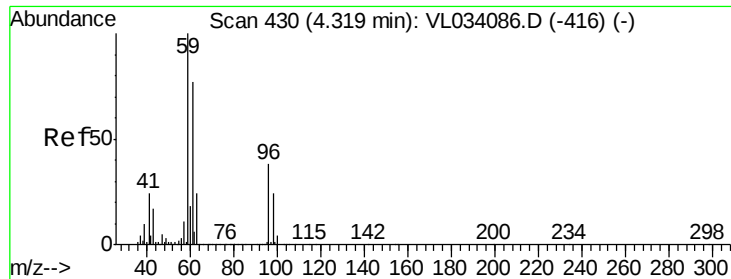
MMDadoda
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#16
1,3-Butadiene
Concen: 10.650 ppbv
RT: 3.33 min Scan# 122
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion: 39 Resp: 679226
Ion Ratio Lower Upper
39 100
54 78.4 67.8 101.8





#17

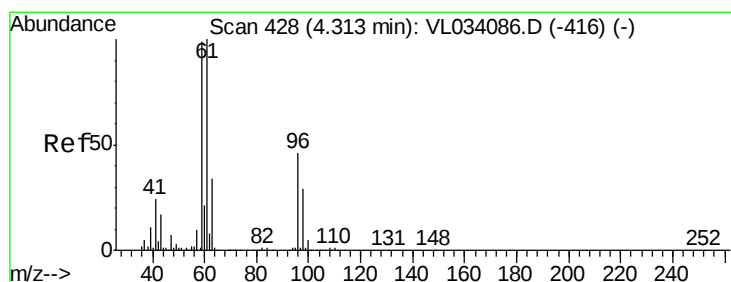
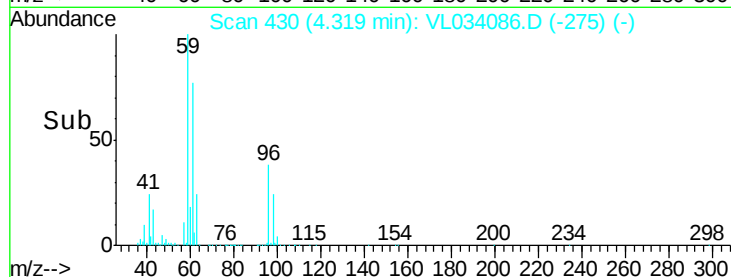
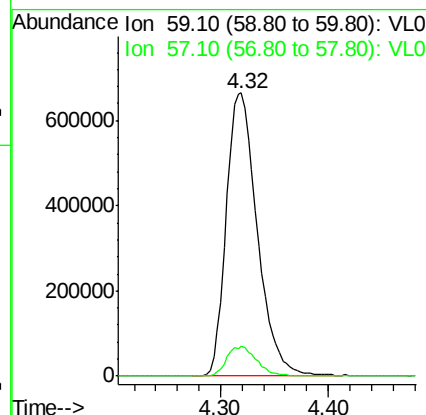
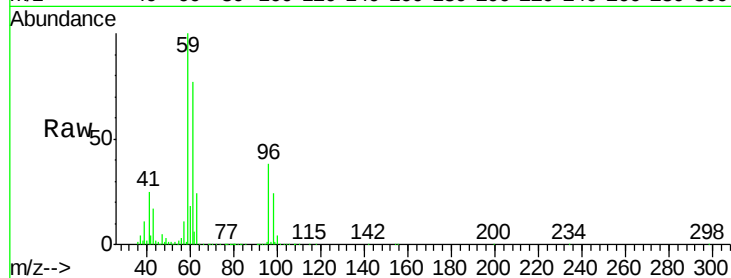
tert-Butyl alcohol
Concen: 10.528 ppbv
RT: 4.32 min Scan# 430
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 1332286
Ion Ratio Lower Upper
59 100
57 10.5 8.8 13.2

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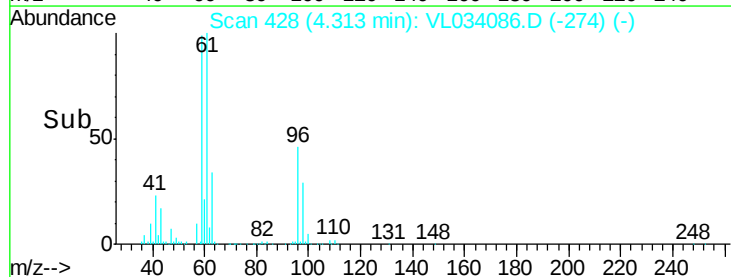
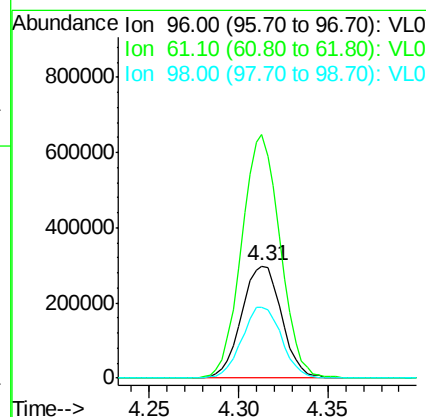
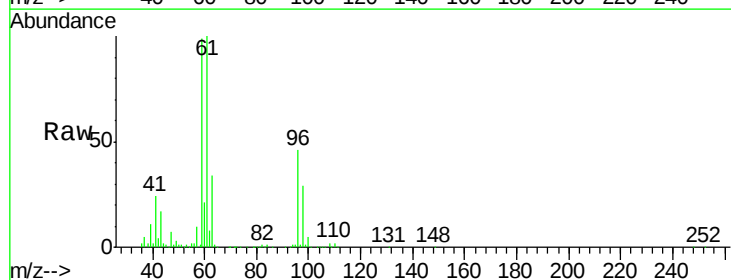
MMDadoda
8/8/2019 12:41:05 PM

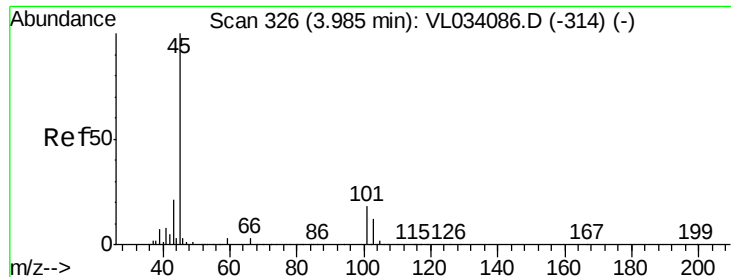


#18

1,1-Dichloroethene
Concen: 6.925 ppbv
RT: 4.31 min Scan# 428
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion: 96 Resp: 467093
Ion Ratio Lower Upper
96 100
61 216.4 145.8 218.8
98 62.9 49.4 74.2





#19

Isopropyl Alcohol

Concen: 9.473 ppbv

RT: 3.98 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 1019075

Ion Ratio Lower Upper

45 100

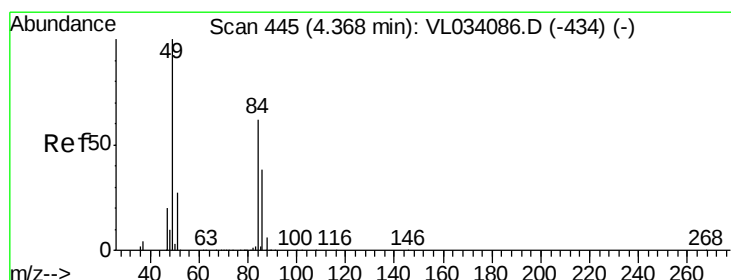
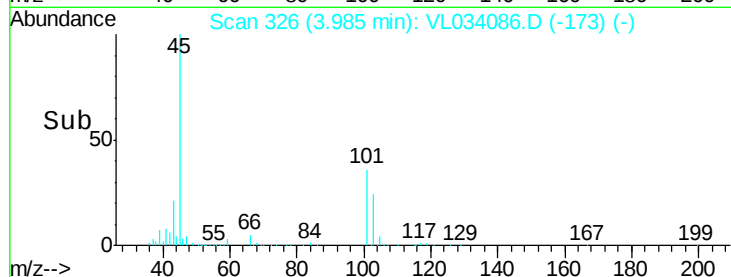
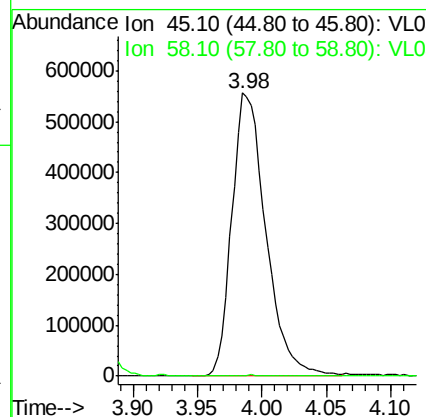
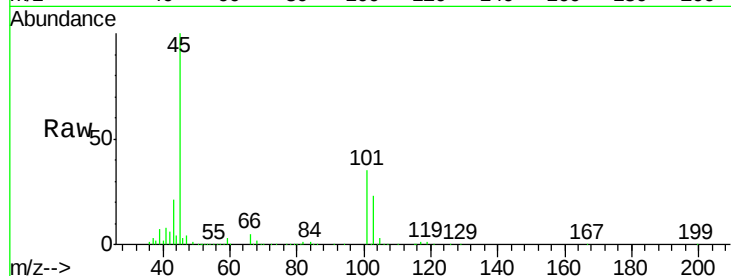
58 30.8 1.8 2.6#

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#20

Methylene Chloride

Concen: 6.442 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.01 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tgt Ion: 84 Resp: 404480

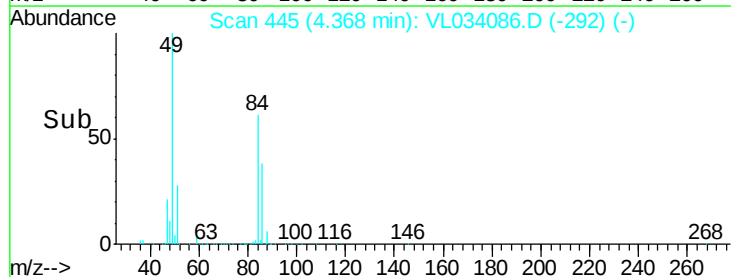
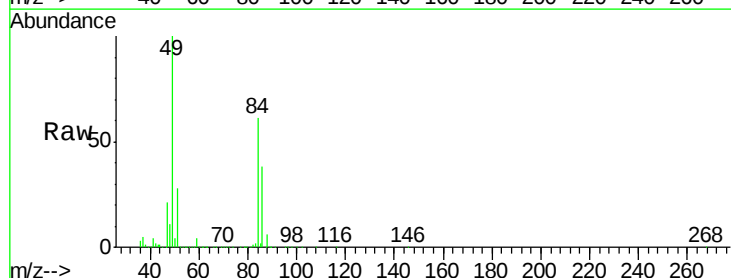
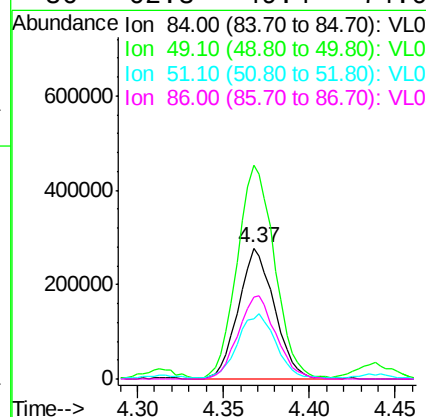
Ion Ratio Lower Upper

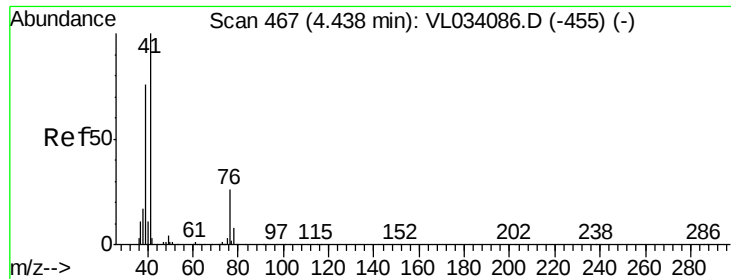
84 100

49 162.1 104.8 157.2#

51 44.8 31.1 46.7

86 62.3 49.4 74.0





#21

Allvl Chloride

Concen: 9.154 ppbv

RT: 4.44 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

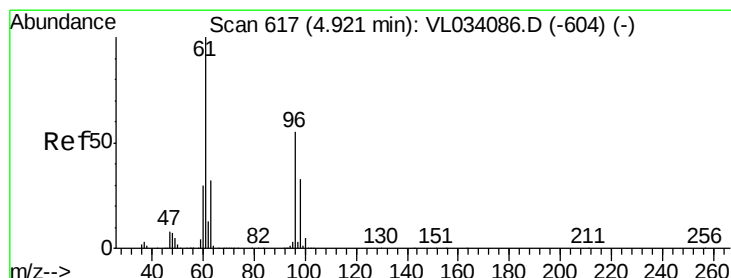
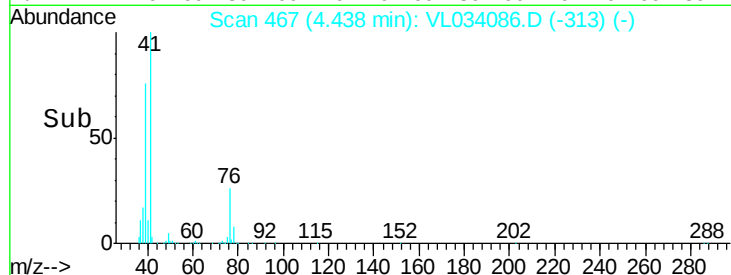
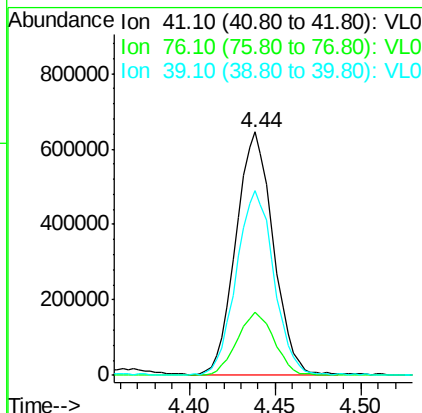
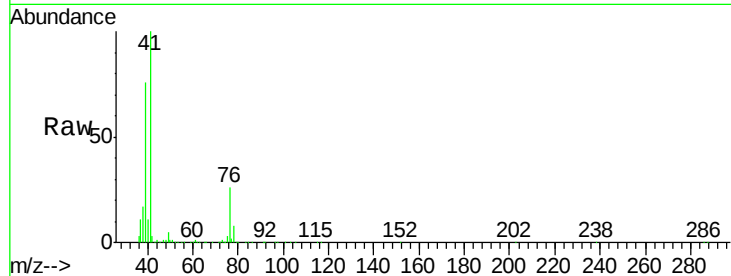
ClientSampleId :

VSTDICCC010

Tot Ion:	41	Resp:	967043
Ion	Ratio	Lower	Upper
41	100		
76	26.0	25.0	37.6
39	76.6	64.7	97.1

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#22

trans-1,2-Dichloroethene

Concen: 6.765 ppbv

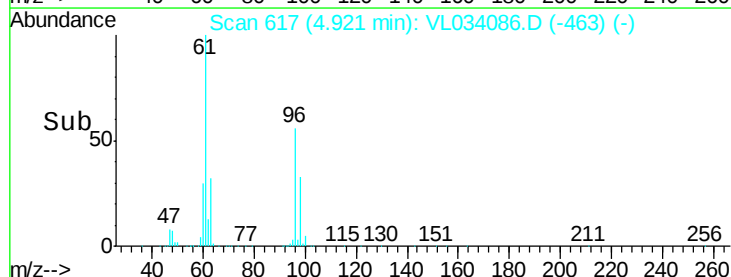
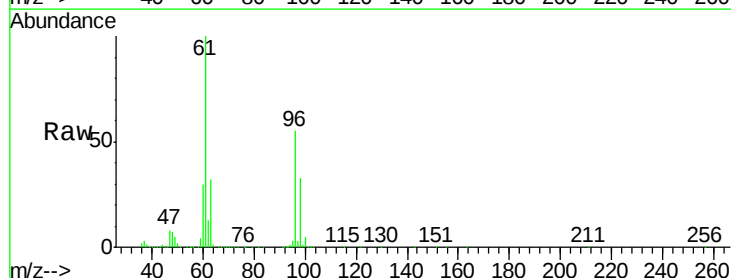
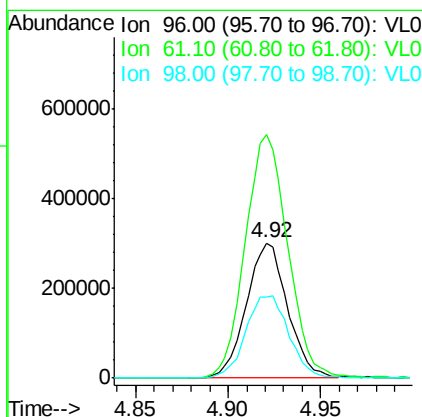
RT: 4.92 min Scan# 617

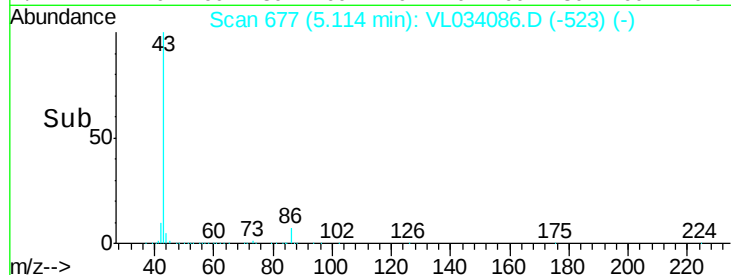
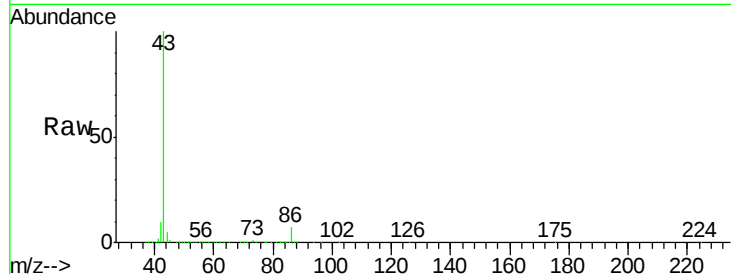
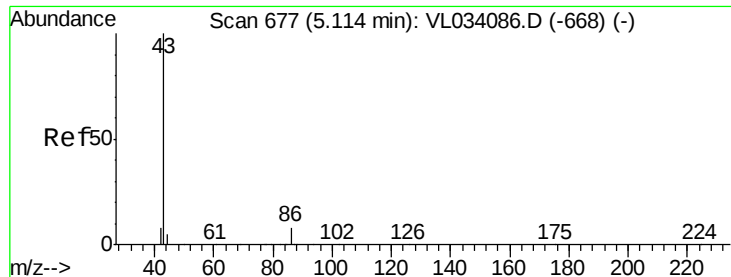
Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

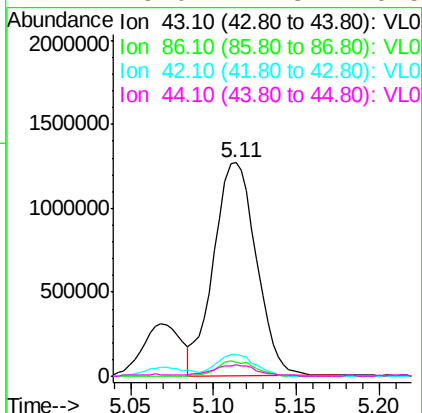
Tgt Ion:	96	Resp:	465038
Ion	Ratio	Lower	Upper
96	100		
61	180.2	131.0	196.6
98	60.0	49.4	74.2





#23
 Vinyl Acetate
 Concen: 12.641 ppbv
 RT: 5.11 min Scan# 677
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

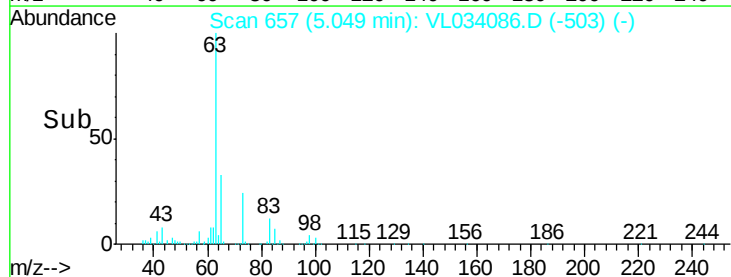
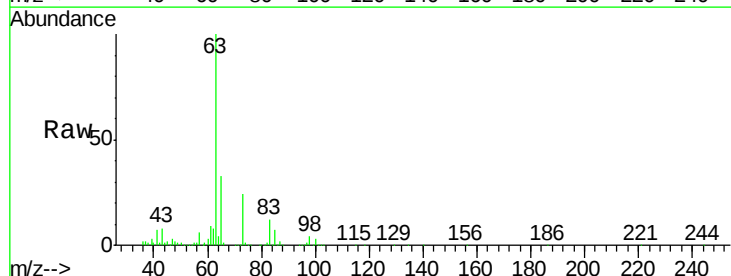
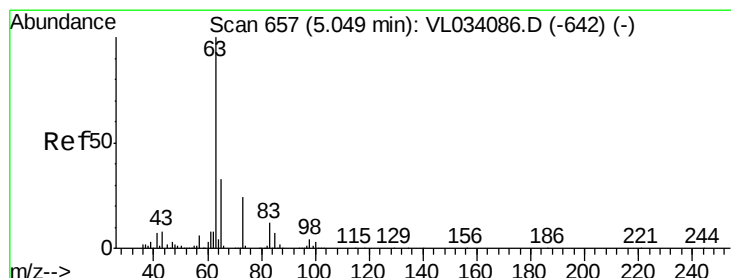
Tot Ion	43	Resp	2270397
Ion	Ratio	Lower	Upper
43	100		
86	6.7	7.3	10.9#
42	9.9	7.7	11.5
44	5.0	4.3	6.5



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

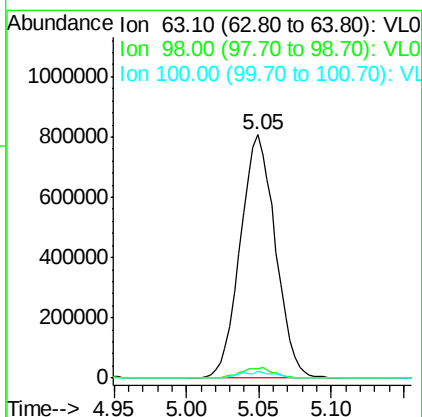
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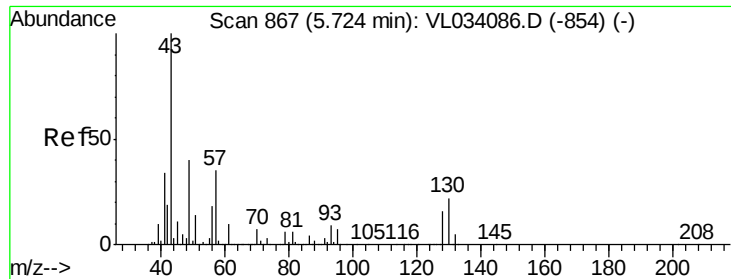
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 9.004 ppbv
 RT: 5.05 min Scan# 657
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion	63	Resp	1358179
Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.5	7.5
100	2.5	1.5	4.5





#25

Ethyl Acetate

Concen: 10.246 ppbv

RT: 5.72 min Scan# 867

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tot Ion: 43 Resp: 2641980

Ion Ratio Lower Upper

43 100

45 10.5 8.2 12.2

61 9.1 8.1 12.1

70 7.2 6.4 9.6

Instrument :

MSVOA_L

ClientSampleId :

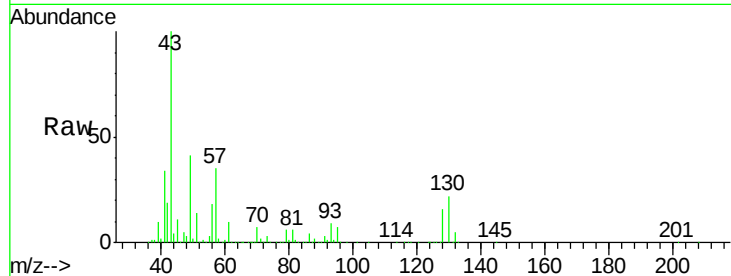
VSTDICCC010

Manual Integrations

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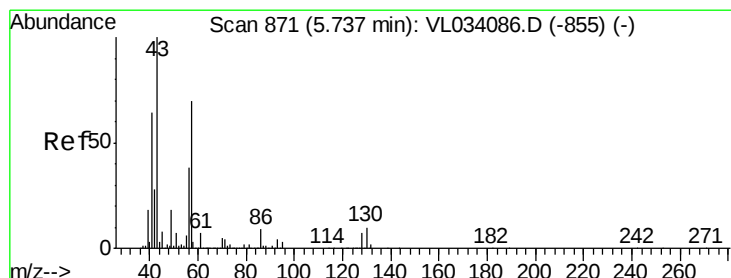
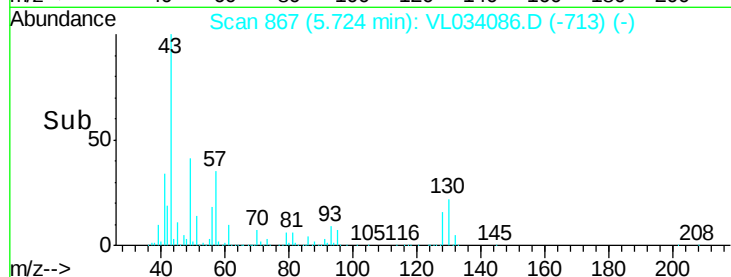
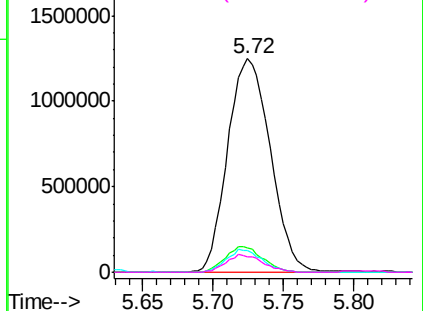


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.600 ppbv

RT: 5.74 min Scan# 871

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tgt Ion: 57 Resp: 1120573

Ion Ratio Lower Upper

57 100

41 94.6 74.2 111.2

43 237.3 180.0 270.0

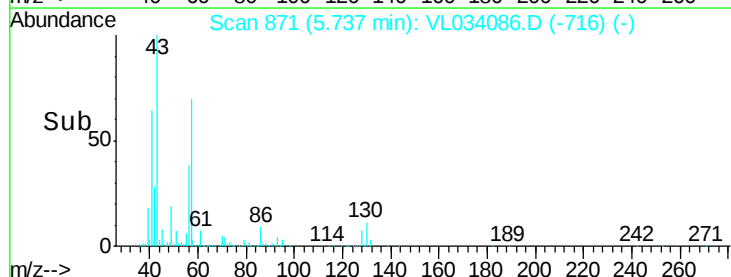
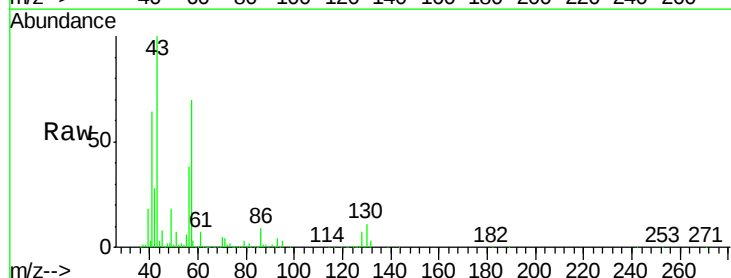
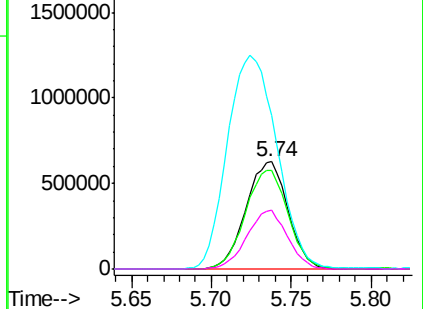
56 53.4 43.5 65.3

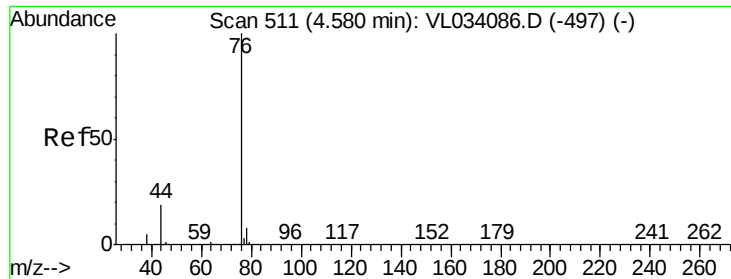
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 7.331 ppbv

RT: 4.58 min Scan# 511

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 76 Resp: 1274086

Ion Ratio Lower Upper

76 100

44 22.2 13.4 20.0#

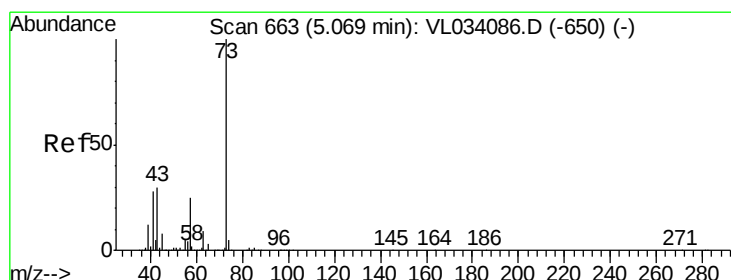
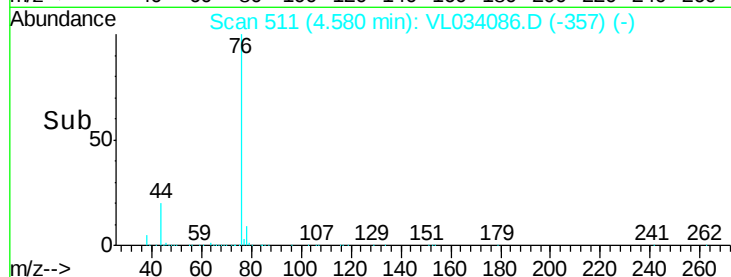
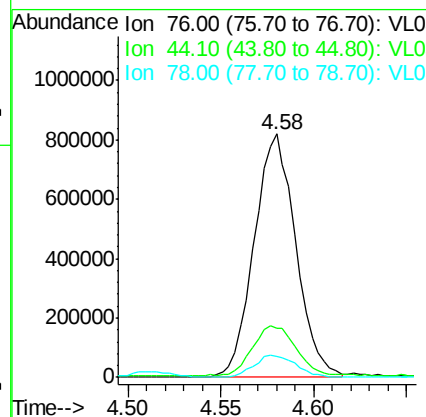
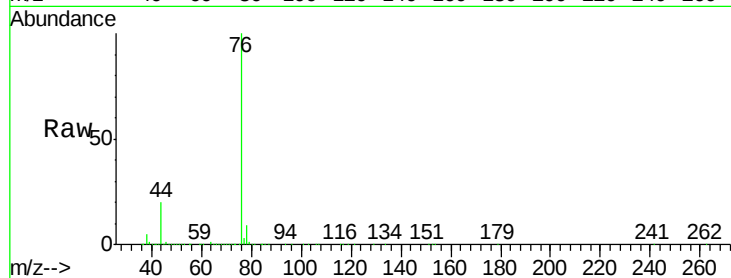
78 9.6 7.1 10.7

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#28

Methyl tert-Butyl Ether

Concen: 10.932 ppbv

RT: 5.07 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL034086.D

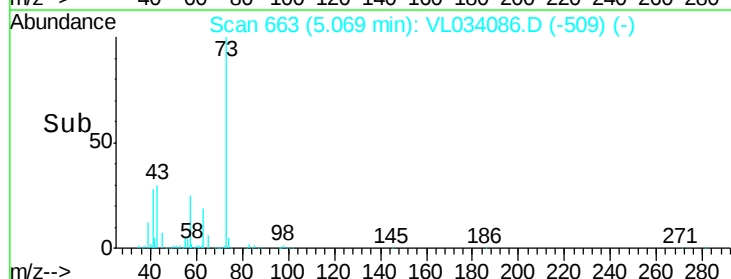
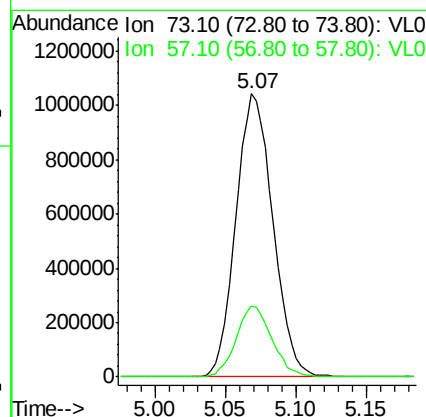
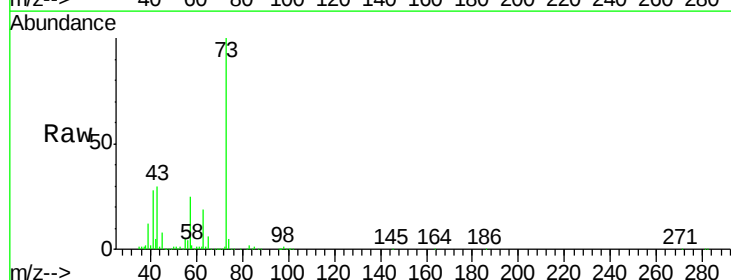
Acq: 5 Aug 2019 12:43

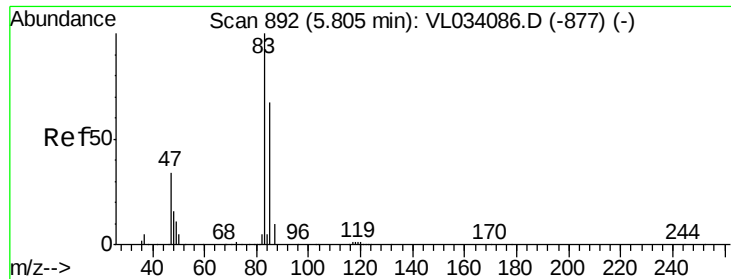
Tgt Ion: 73 Resp: 1915425

Ion Ratio Lower Upper

73 100

57 24.4 17.5 26.3





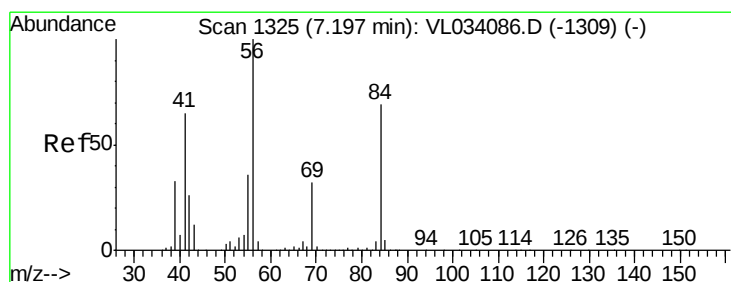
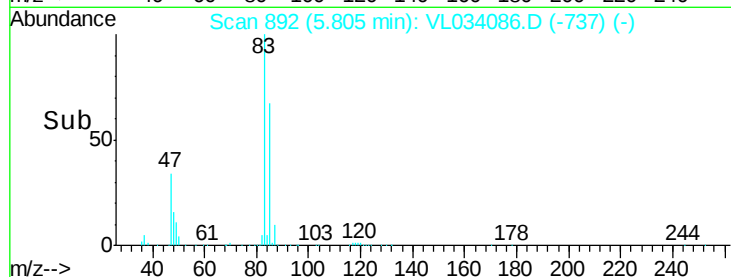
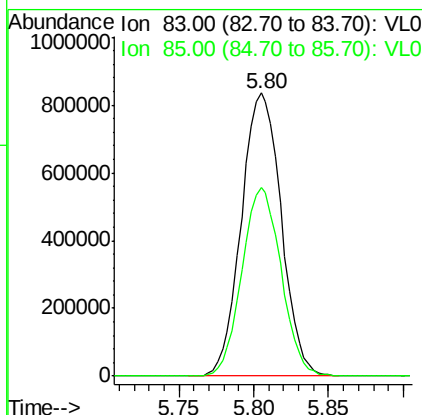
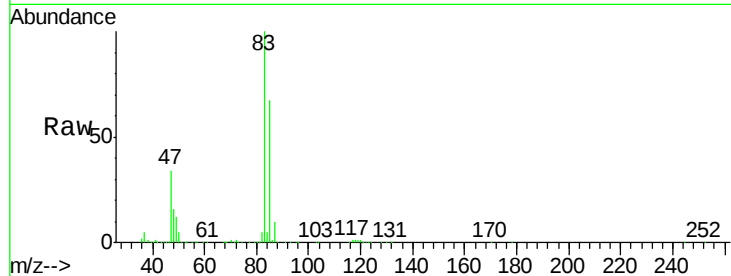
#29
Chloroform
Concen: 7.644 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 1552448
Ion Ratio Lower Upper
83 100
85 66.5 52.2 78.2

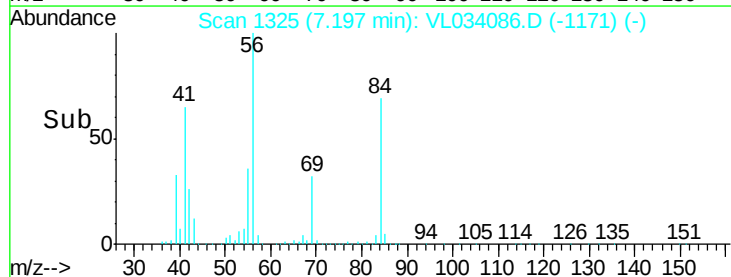
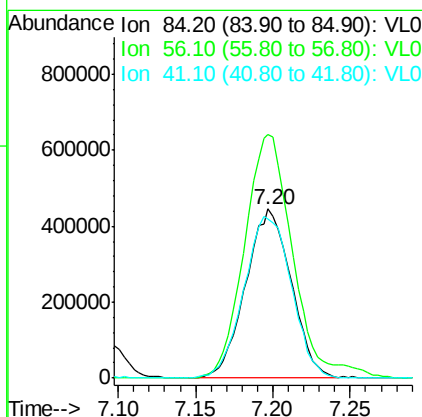
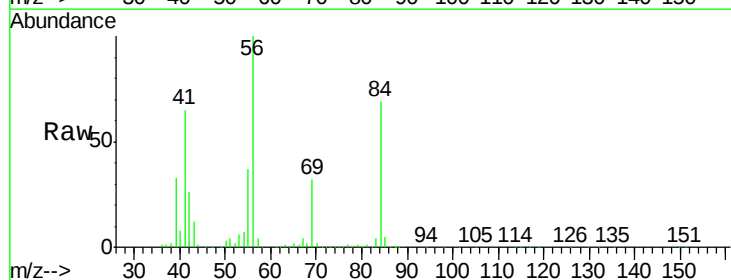
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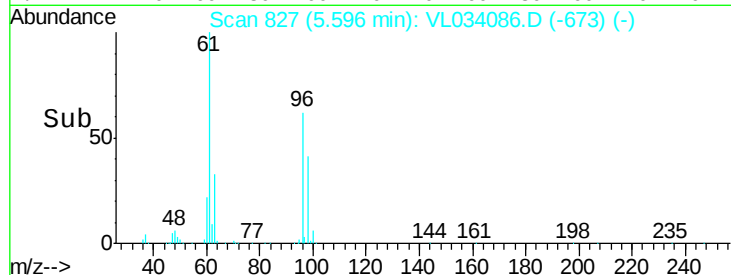
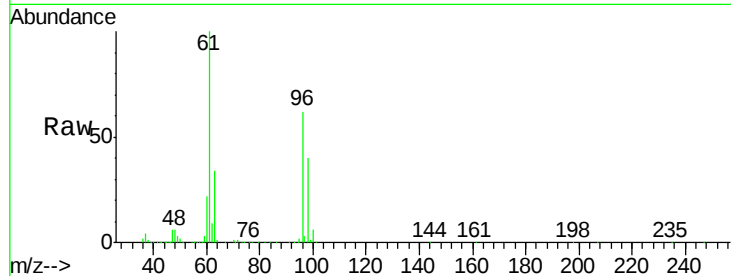
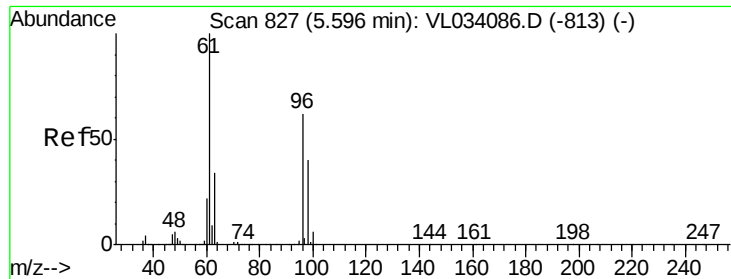
MMDadoda
8/8/2019 12:41:05 PM



#30
Cyclohexane
Concen: 9.781 ppbv
RT: 7.20 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion: 84 Resp: 910486
Ion Ratio Lower Upper
84 100
56 153.3 100.5 150.7#
41 100.1 60.6 90.8#





#31

cis-1,2-Dichloroethene

Concen: 9.941 ppbv

RT: 5.60 min Scan# 827

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tot Ion:	61	Resp:	1138240
Ion	Ratio	Lower	Upper
61	100		
96	61.6	47.0	70.4
98	40.5	33.4	50.0

Instrument :

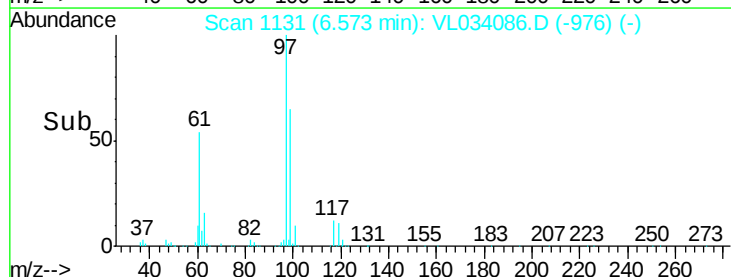
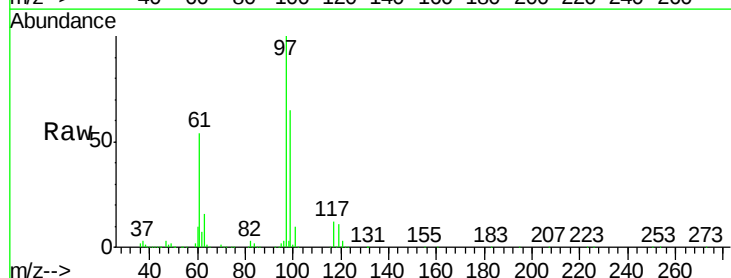
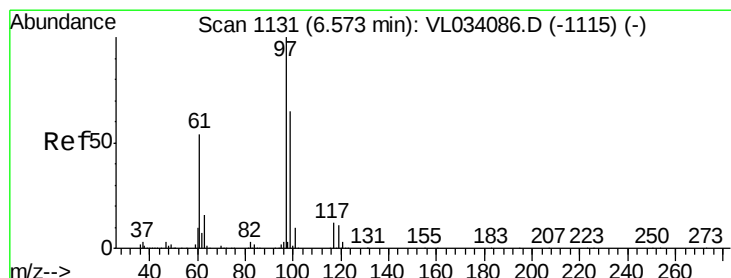
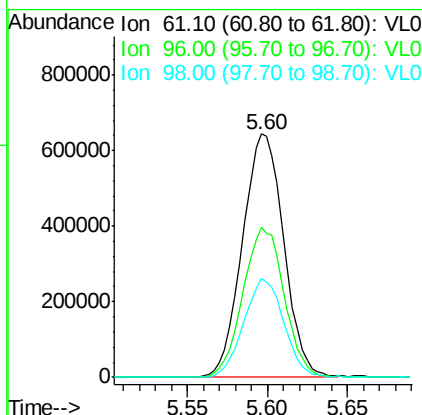
MSVOA_L

ClientSampleId :

VSTDICCC010

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 7.137 ppbv

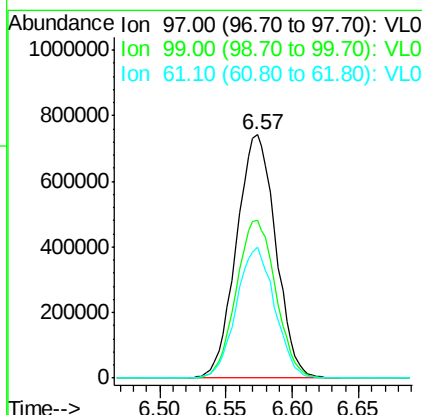
RT: 6.57 min Scan# 1131

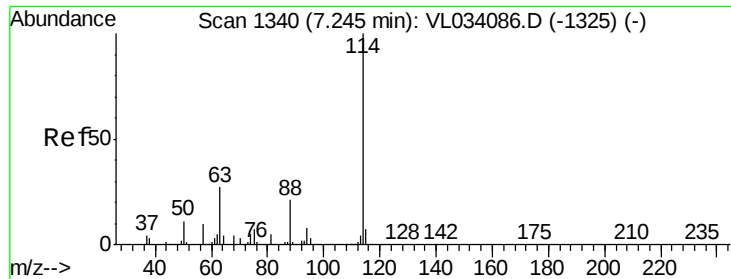
Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tgt Ion:	97	Resp:	1528296
Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.0	76.6
61	52.5	41.5	62.3





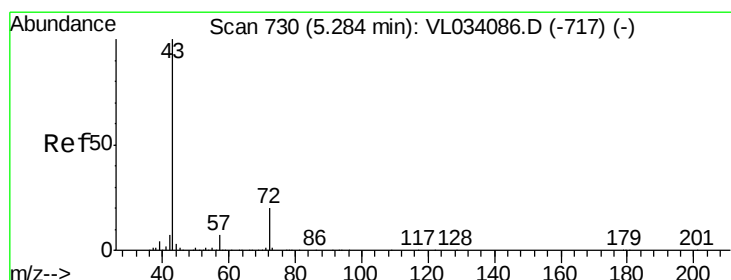
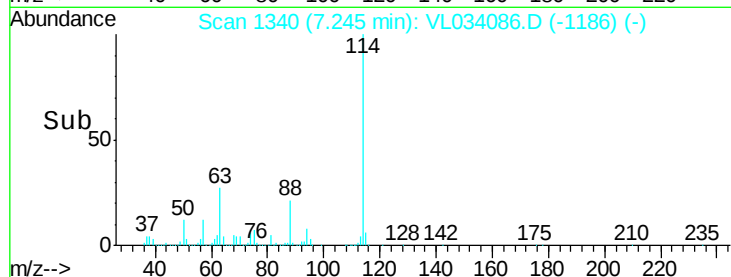
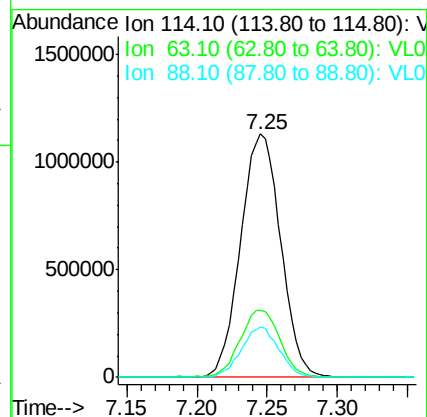
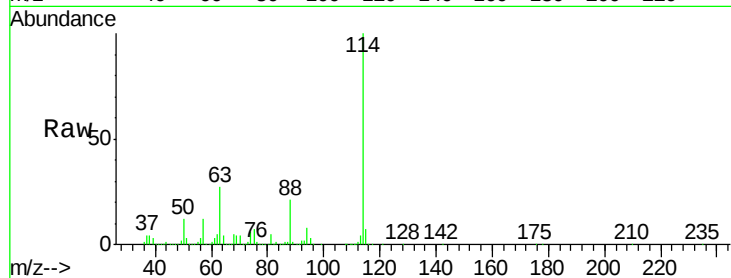
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.1	21.9	32.9
88	19.6	15.6	23.4

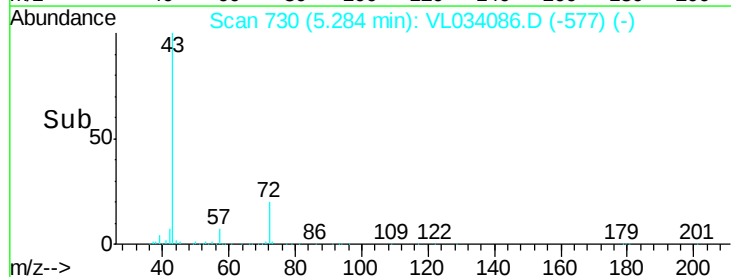
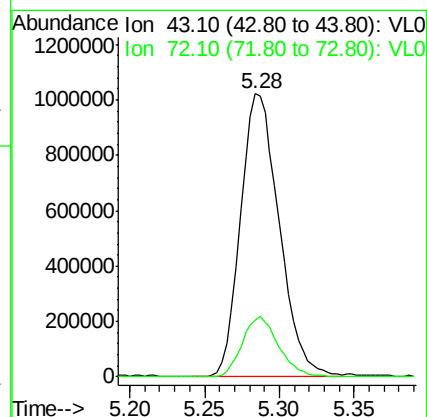
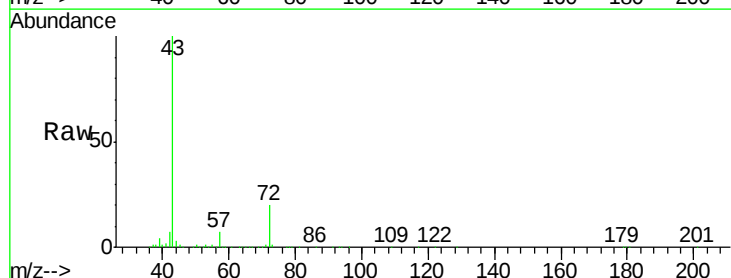
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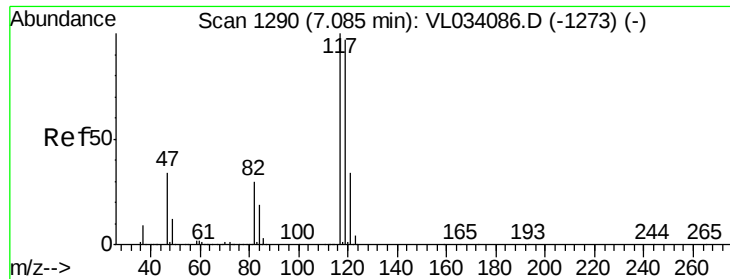
MMDadoda
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#34
 2-Butanone
 Concen: 14.233 ppbv
 RT: 5.28 min Scan# 730
 Delta R.T. -0.01 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.0	19.7	29.5





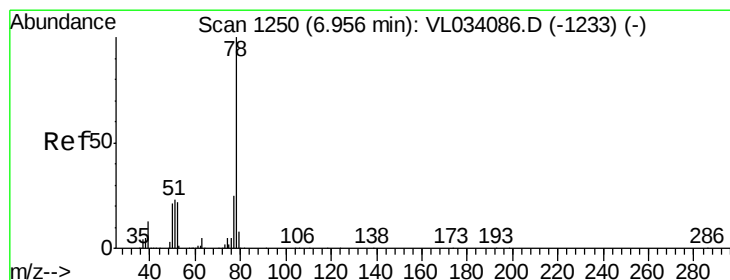
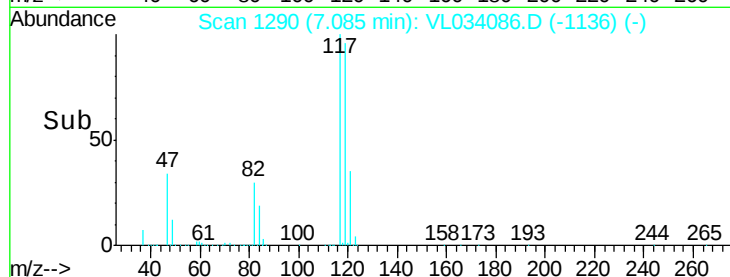
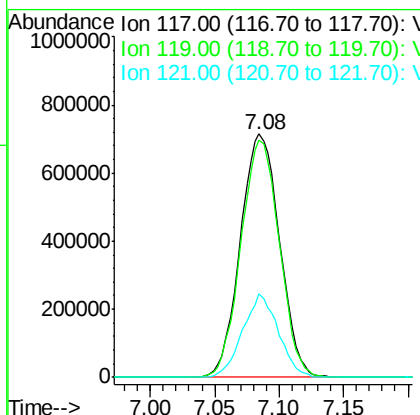
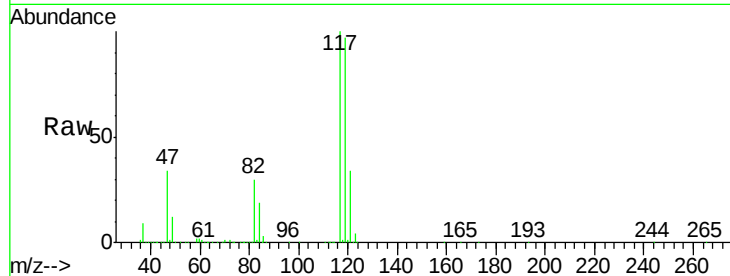
#35
Carbon Tetrachloride
Concen: 8.317 ppbv
RT: 7.08 min Scan# 1290
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.2	78.3	117.5
121	34.3	24.5	36.7

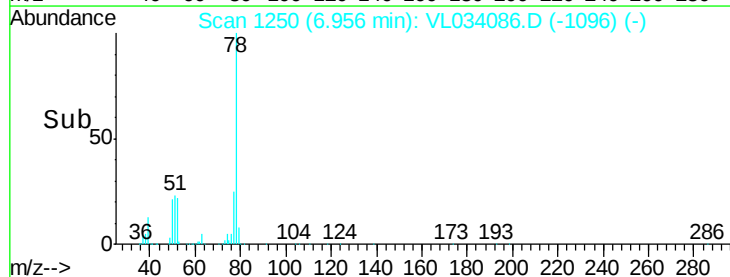
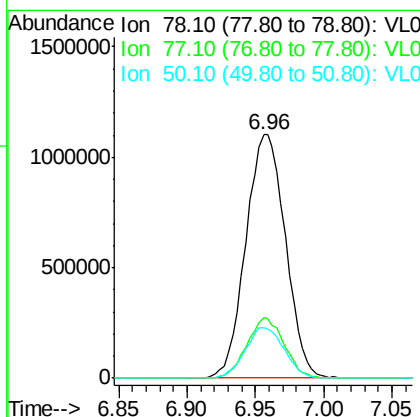
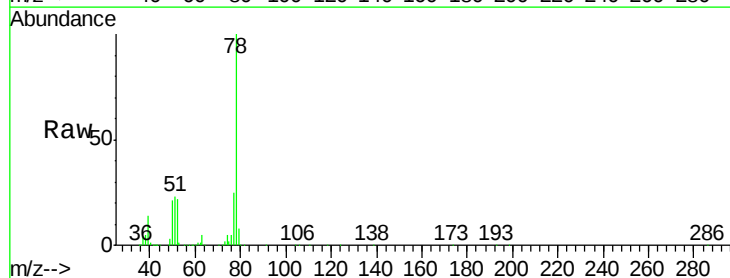
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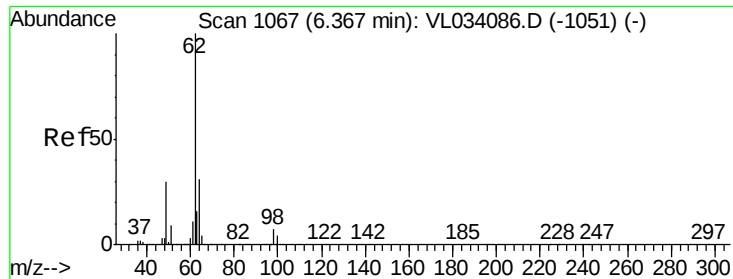
MMDadoda
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#36
Benzene
Concen: 10.337 ppbv
RT: 6.96 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.9	17.9	26.9
50	20.9	15.2	22.8





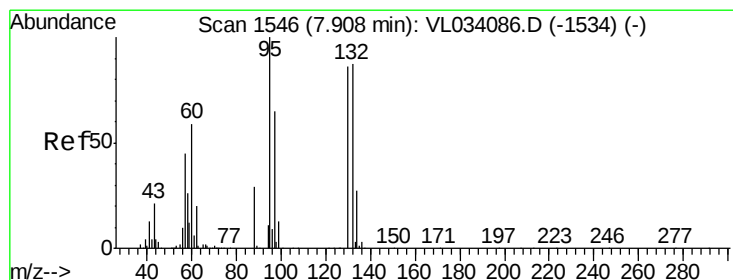
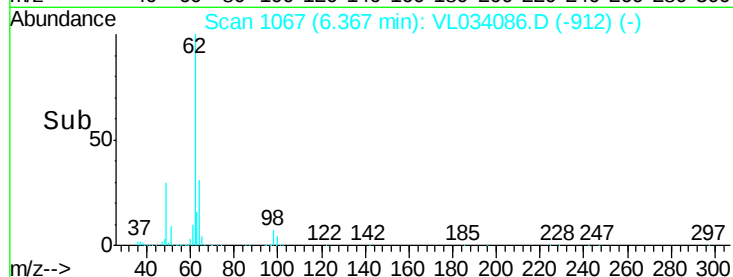
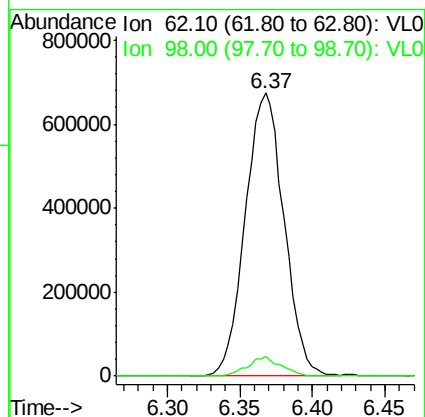
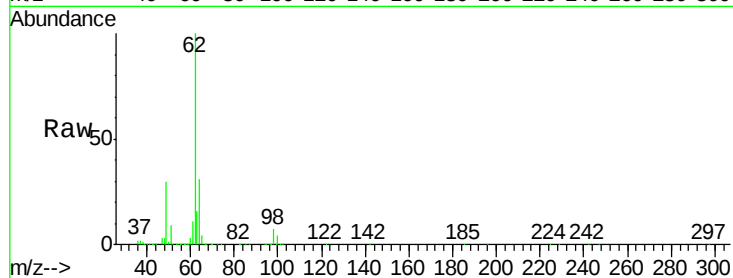
#37
 1,2-Dichloroethane
 Concen: 8.958 ppbv
 RT: 6.37 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.5	6.7

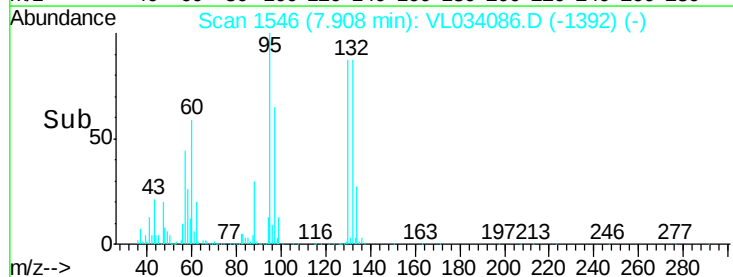
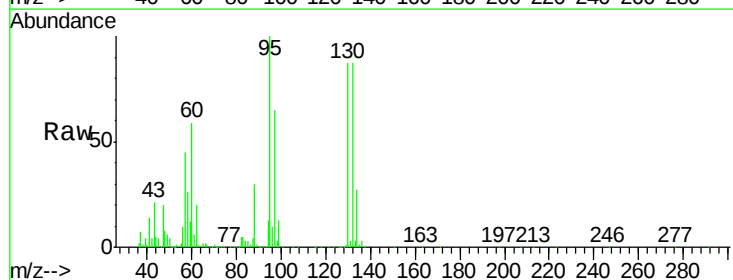
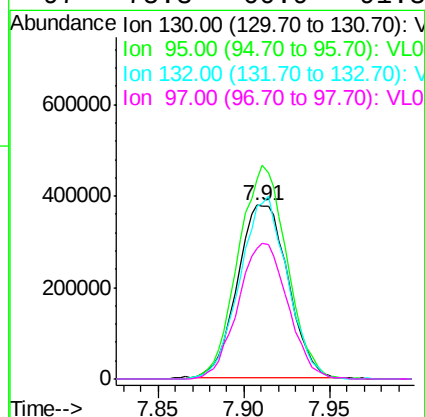
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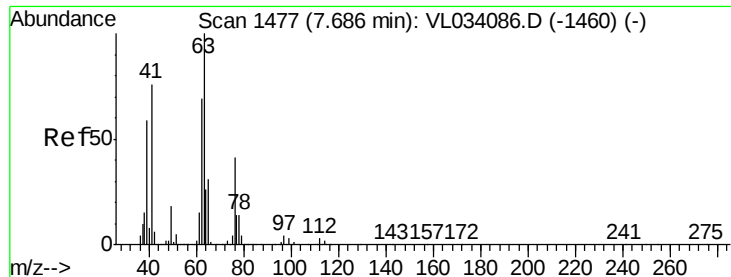
MMDadoda
 8/8/2019 12:41:05 PM



#38
 Trichloroethene
 Concen: 10.698 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
130	100		
95	115.1	88.4	132.6
132	99.6	75.2	112.8
97	75.3	60.9	91.3





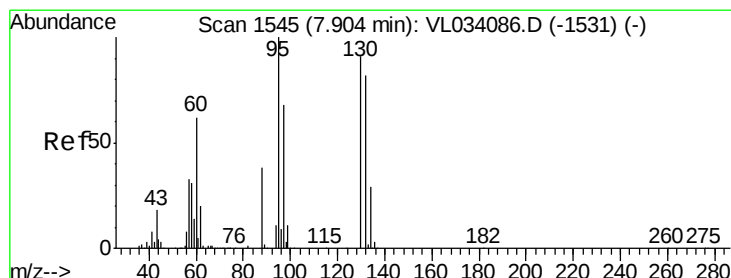
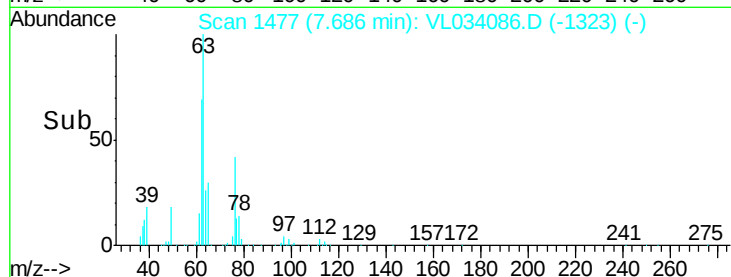
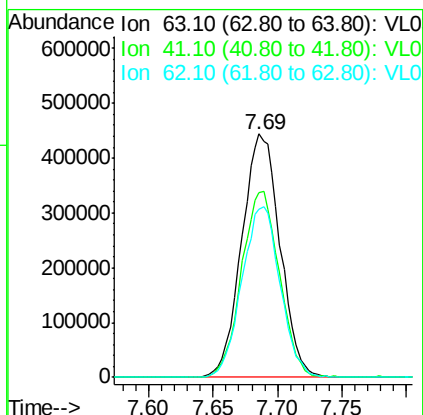
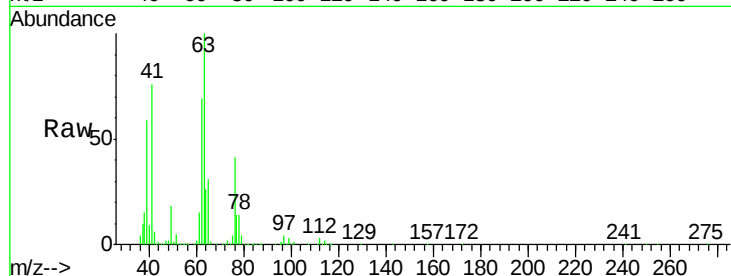
#39
 1,2-Dichloropropane
 Concen: 11.859 ppbv
 RT: 7.69 min Scan# 1477
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:	63	Resp:	919905
Ion Ratio	Lower	Upper	
63	100		
41	75.8	63.2	94.8
62	68.8	59.0	88.6

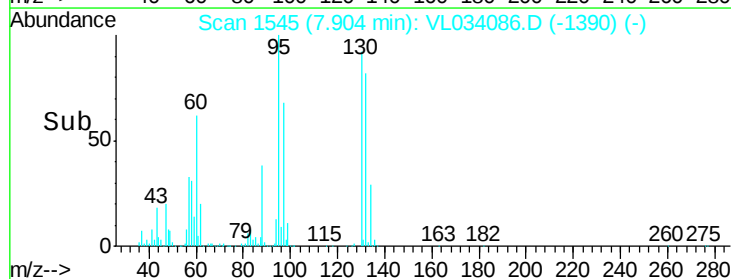
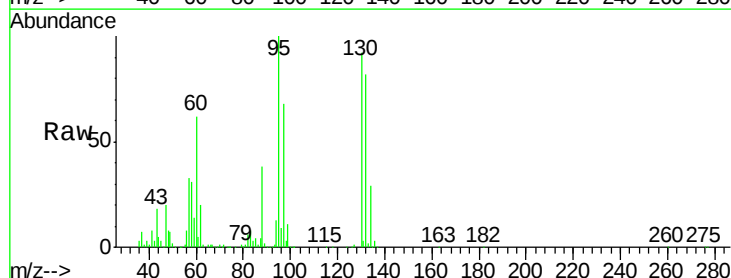
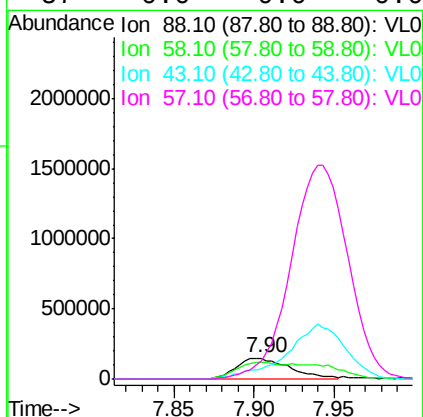
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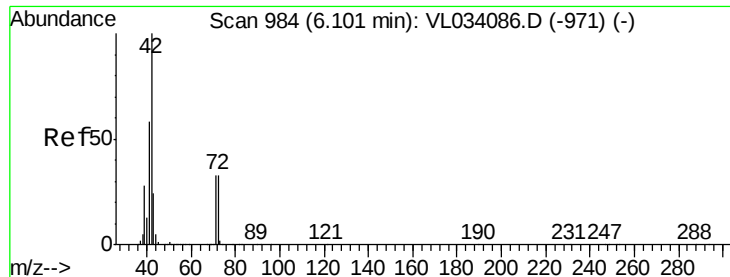
MMDadoda
 8/8/2019 12:41:05 PM



#40
 1,4-Dioxane
 Concen: 11.269 ppbv
 RT: 7.90 min Scan# 1545
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion:	88	Resp:	335008
Ion Ratio	Lower	Upper	
88	100		
58	141.2	96.4	144.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 16.640 ppbv

RT: 6.10 min Scan# 984

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 42 Resp: 1149442

Ion Ratio Lower Upper

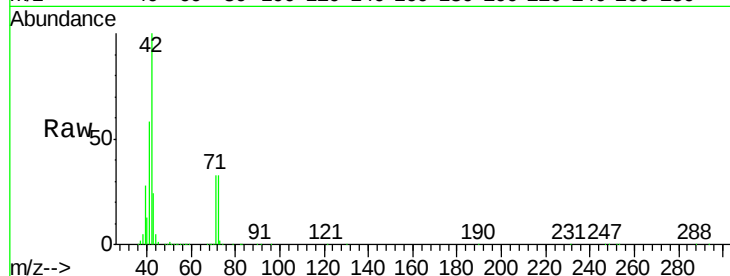
42 100

72 33.6 36.7 55.1#

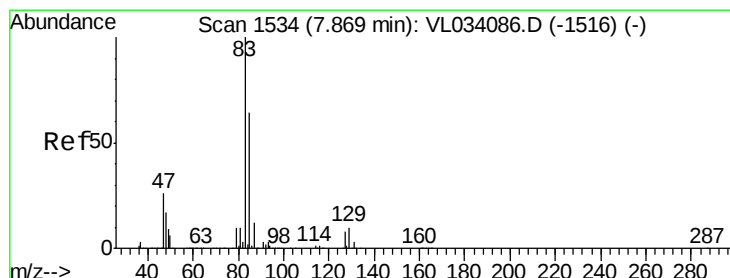
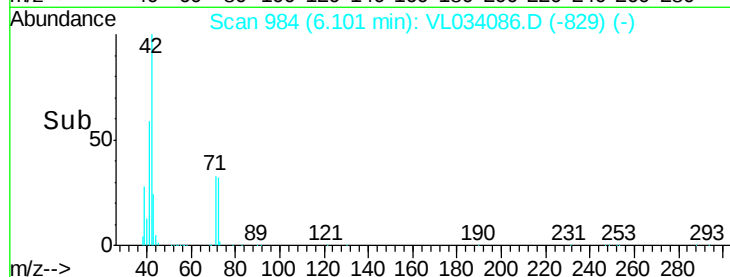
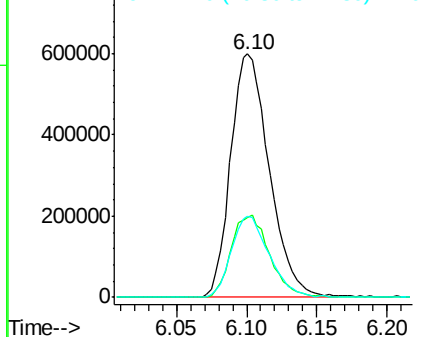
71 33.1 35.7 53.5#

Manual Integrations
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.856 ppbv

RT: 7.87 min Scan# 1534

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

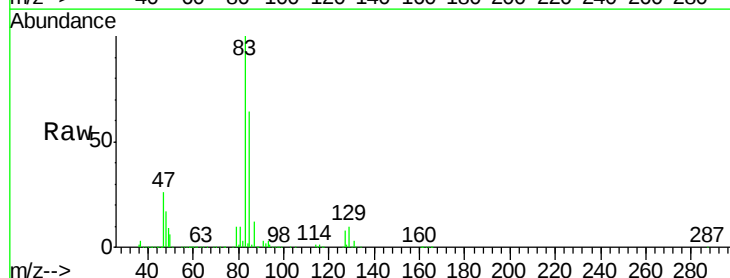
Tgt Ion: 83 Resp: 1738088

Ion Ratio Lower Upper

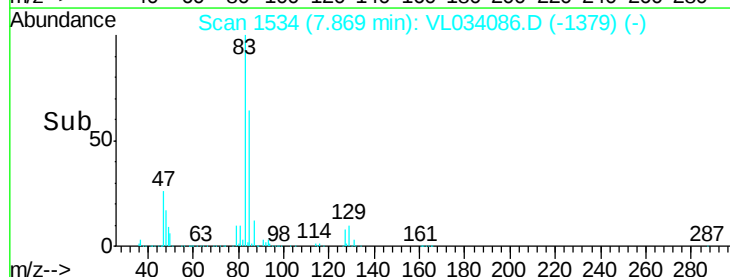
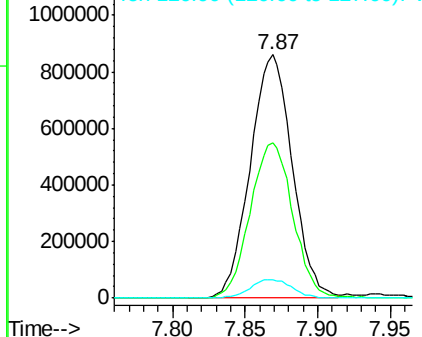
83 100

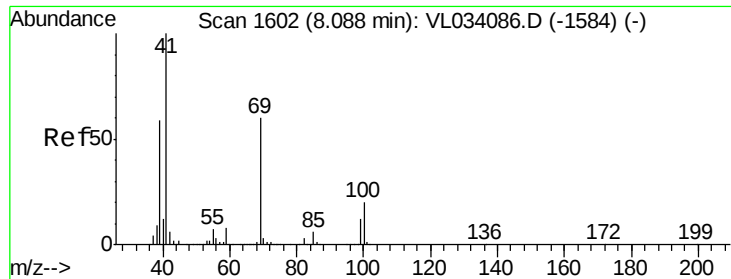
85 63.6 51.8 77.6

127 7.6 6.3 9.5



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





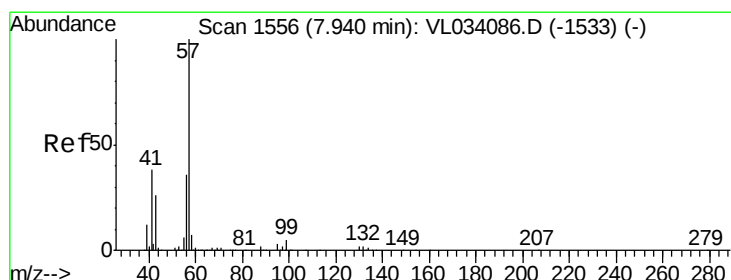
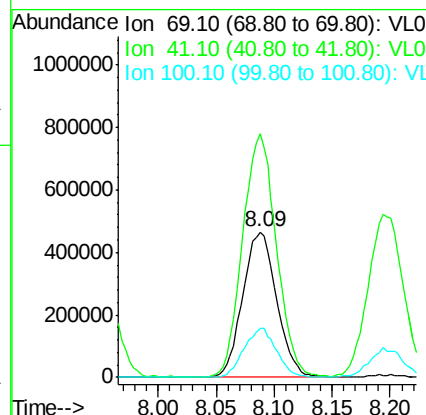
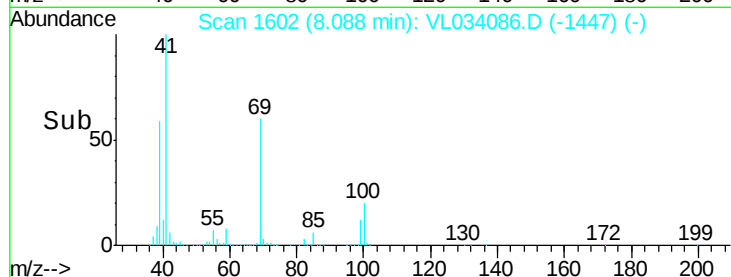
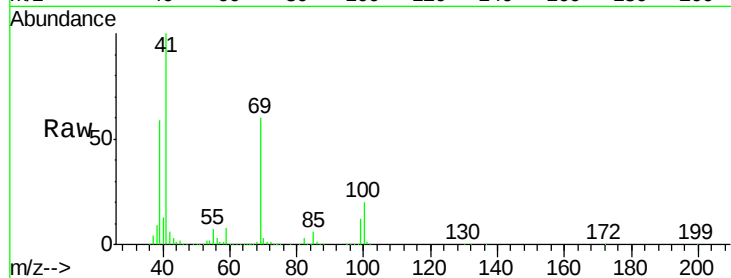
#43
Methvl Methacrvlate
Concen: 12.817 ppbv
RT: 8.09 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100				
41	166.1	111.4	167.0		
100	32.3	26.6	39.8		

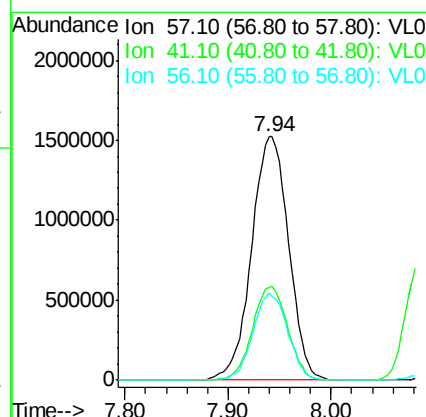
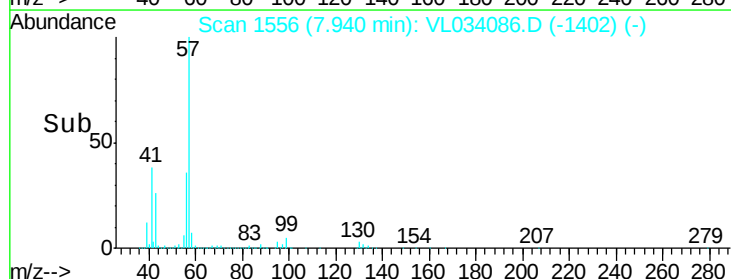
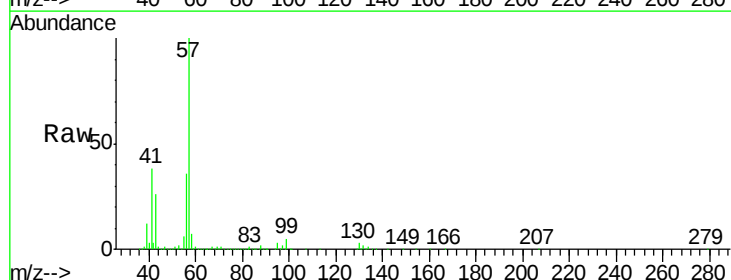
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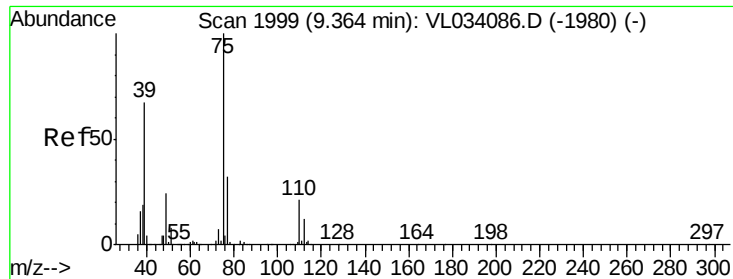
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 11.840 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	36.5	27.1	40.7		
56	33.4	23.8	35.8		





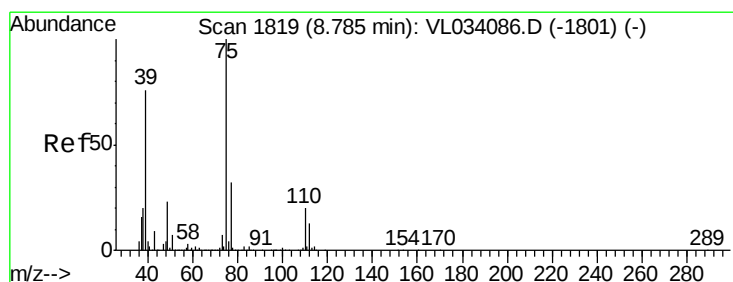
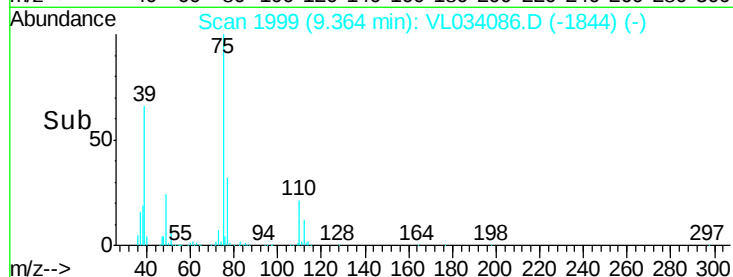
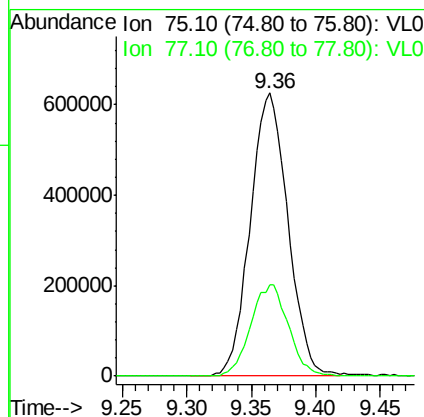
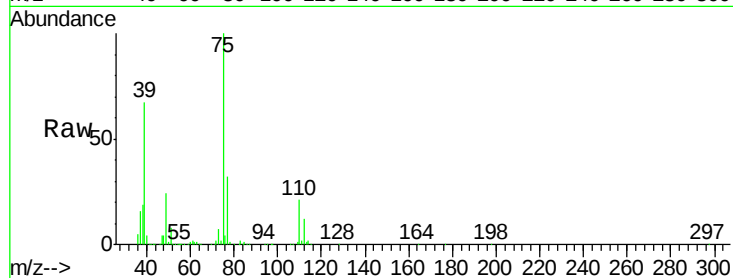
#45
t-1,3-Dichloropropene
Concen: 13.938 ppbv
RT: 9.36 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 75 Resp: 1274195
Ion Ratio Lower Upper
75 100
77 32.1 23.7 35.5

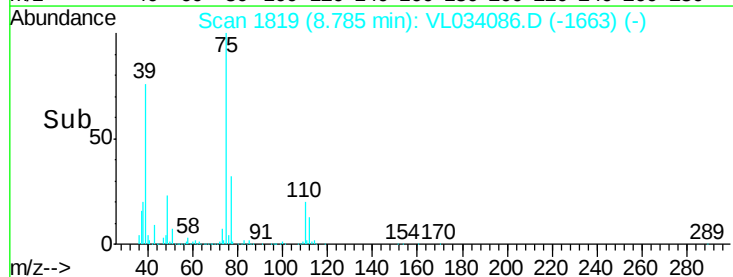
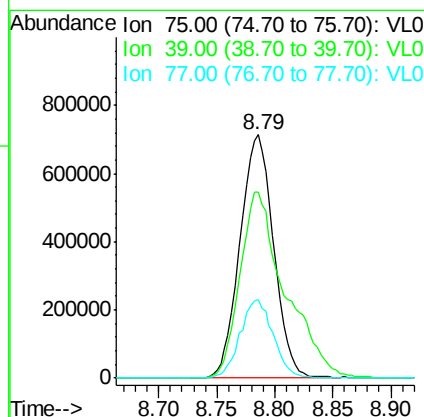
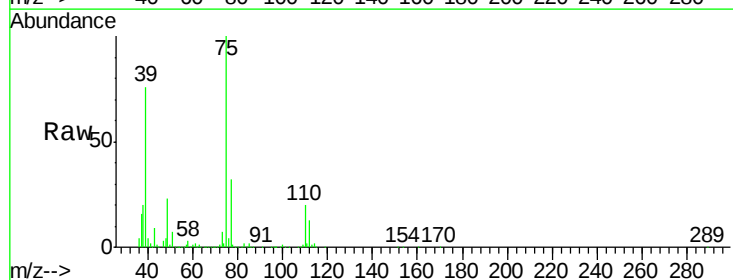
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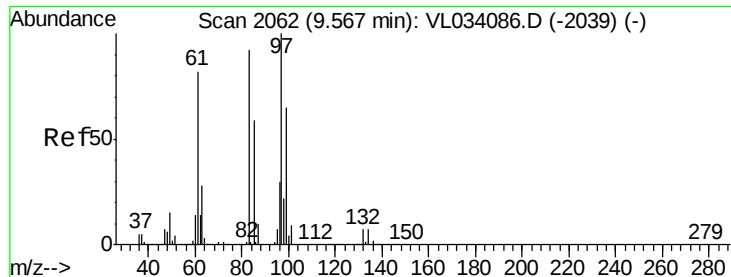
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#46
cis-1,3-Dichloropropene
Concen: 13.568 ppbv
RT: 8.79 min Scan# 1819
Delta R.T. 0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion: 75 Resp: 1439760
Ion Ratio Lower Upper
75 100
39 76.2 51.4 77.0
77 32.0 24.5 36.7





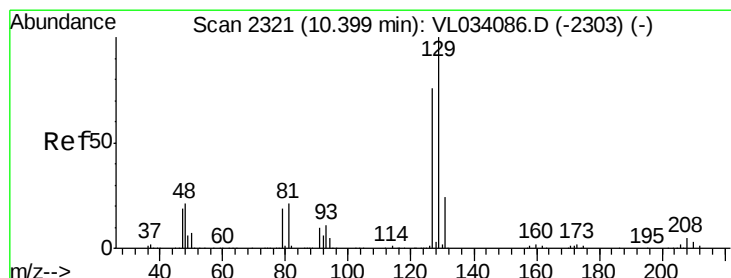
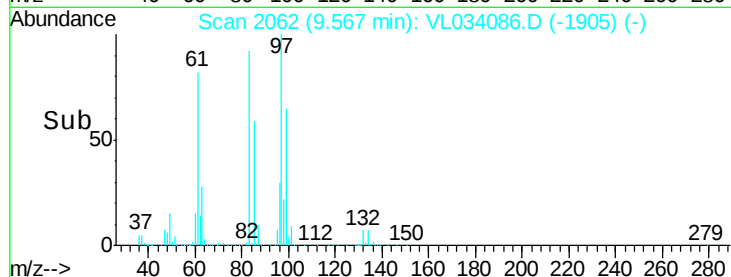
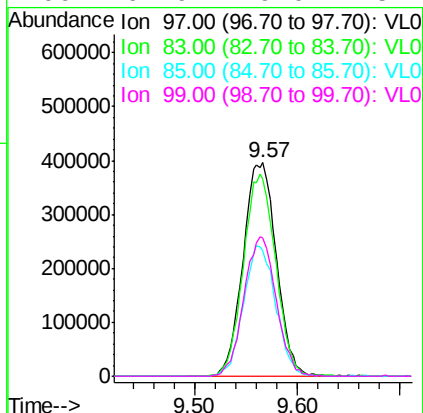
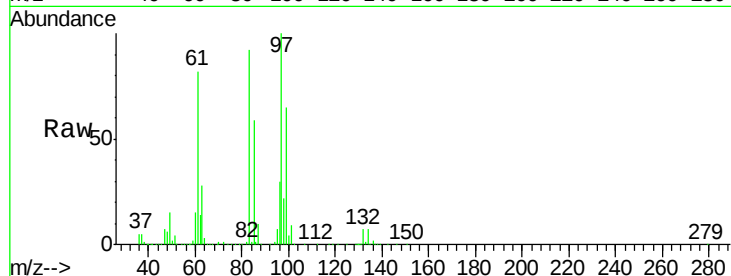
#47
 1,1,2-Trichloroethane
 Concen: 10.645 ppbv m
 RT: 9.57 min Scan# 2062
 Delta R.T. 0.01 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		889097		
83	92.5	71.5	107.3		
85	58.9	47.6	71.4		
99	64.9	49.0	73.4		

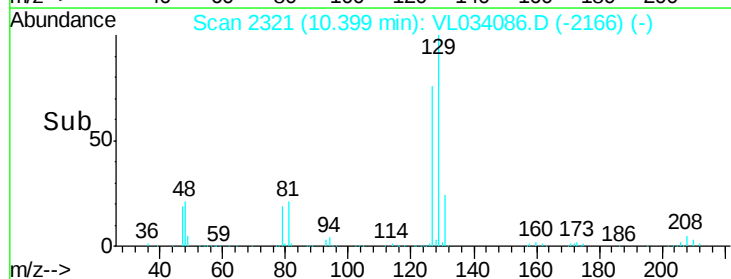
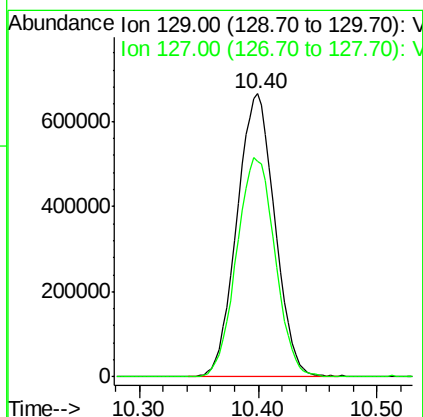
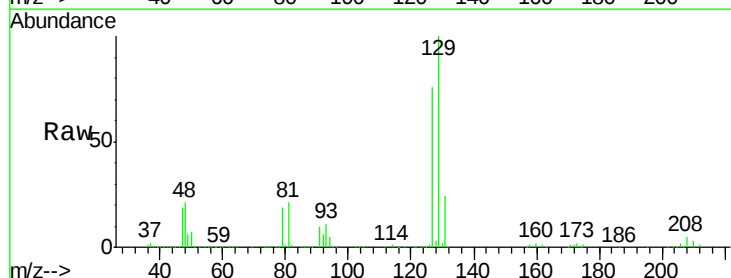
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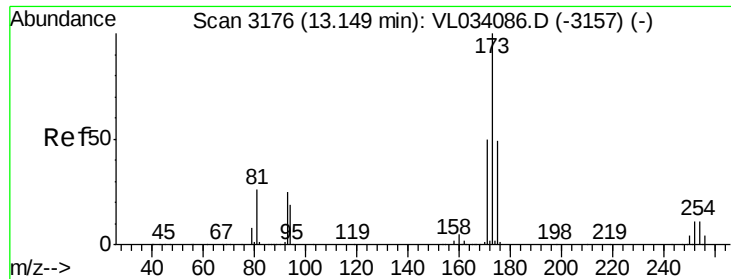
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#48
 Dibromochloromethane
 Concen: 10.360 ppbv
 RT: 10.40 min Scan# 2321
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1464207		
127	78.8	39.0	116.9		





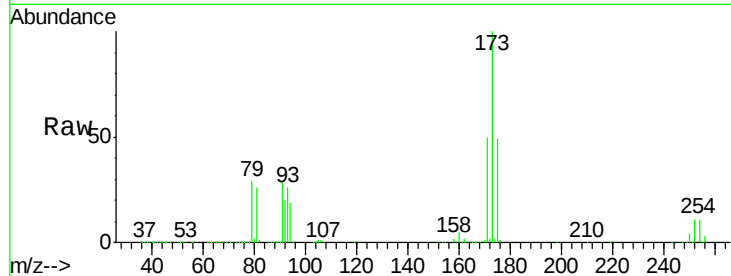
#49
Bromoform
Concen: 10.871 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

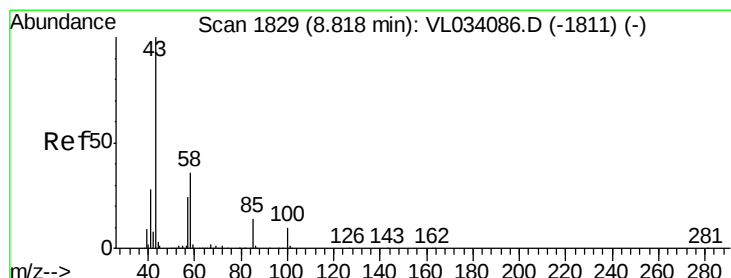
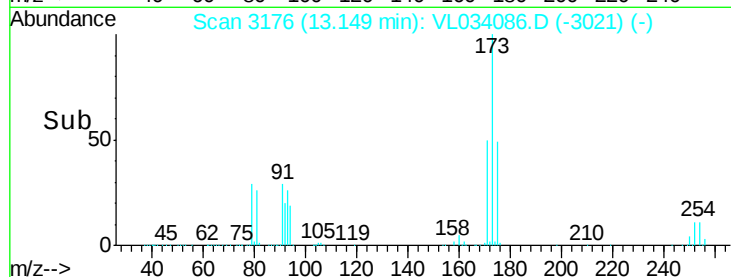
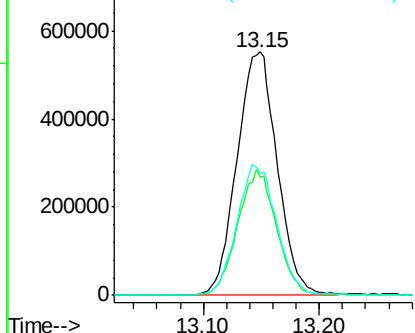
Tot Ion:173 Resp: 1330884
Ion Ratio Lower Upper
173 100
175 49.8 39.5 59.3
171 53.4 42.4 63.6

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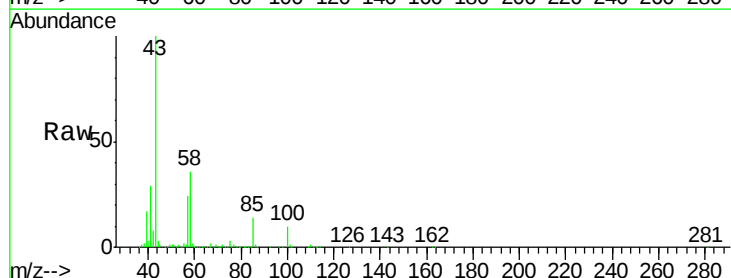


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

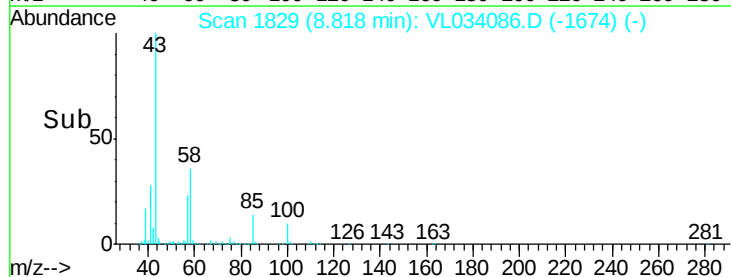
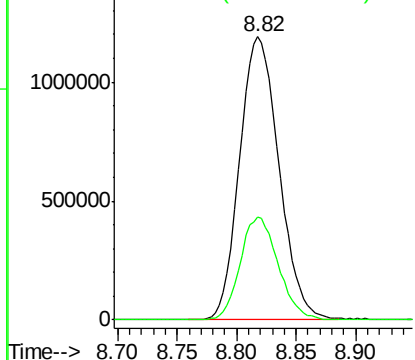


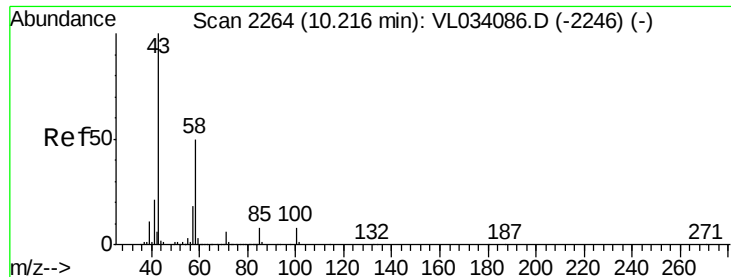
#50
4-Methyl-2-Pentanone
Concen: 14.239 ppbv
RT: 8.82 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion: 43 Resp: 2725180
Ion Ratio Lower Upper
43 100
58 35.2 30.6 46.0



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





#51

2-Hexanone

Concen: 15.909 ppbv

RT: 10.22 min Scan# 2264

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2347525

Ion Ratio Lower Upper

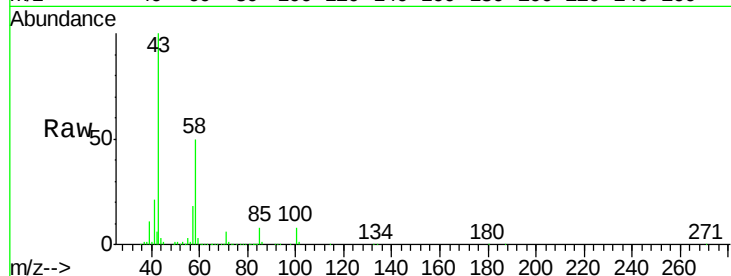
43 100

58 48.1 40.2 60.4

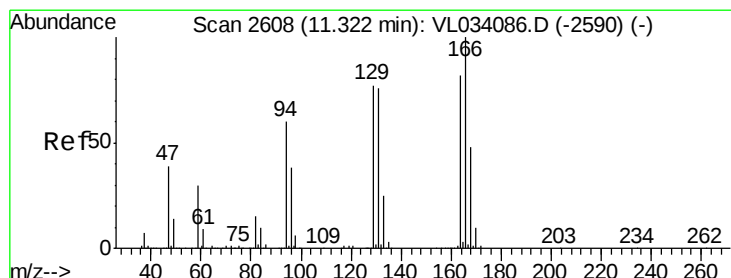
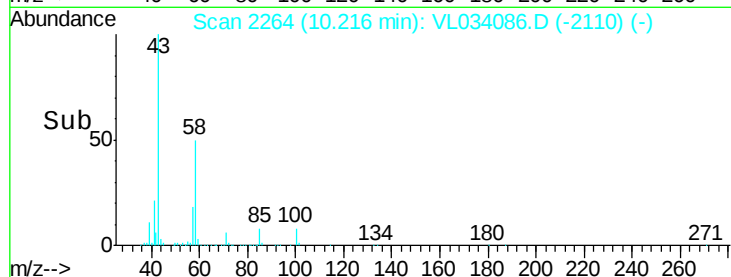
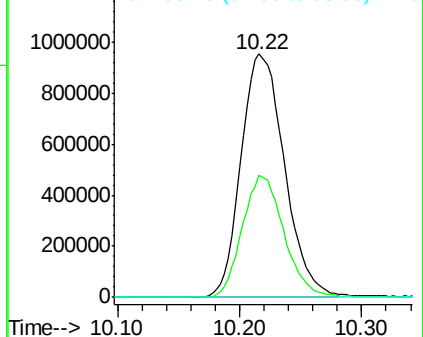
98 0.0 0.3 0.5#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 12.748 ppbv

RT: 11.32 min Scan# 2608

Delta R.T. 0.01 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tgt Ion:164 Resp: 797668

Ion Ratio Lower Upper

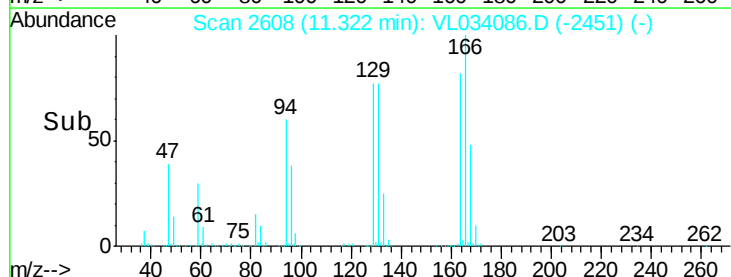
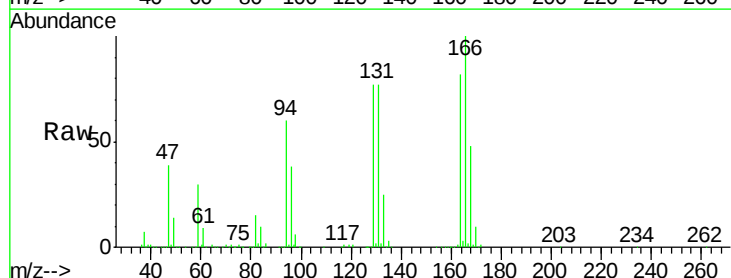
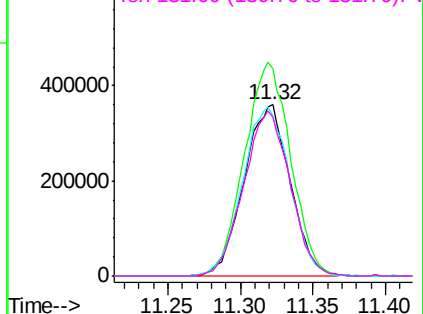
164 100

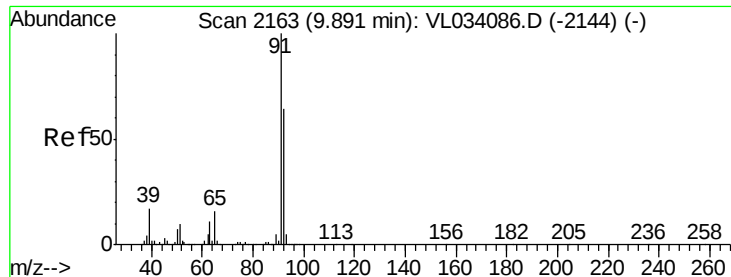
166 121.0 103.3 154.9

129 93.6 88.7 133.1

131 92.7 76.9 115.3

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.921 ppbv

RT: 9.89 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampled :

VSTDICCC010

Tot Ion: 91 Resp: 2540712

Ion Ratio Lower Upper

91 100

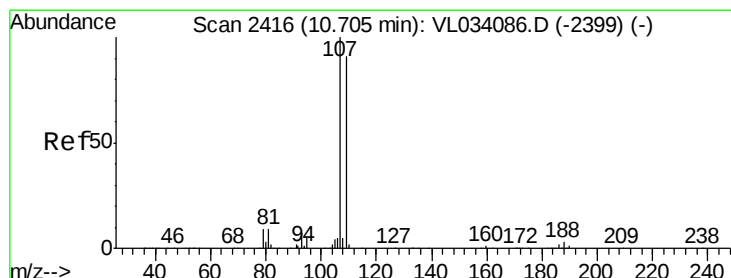
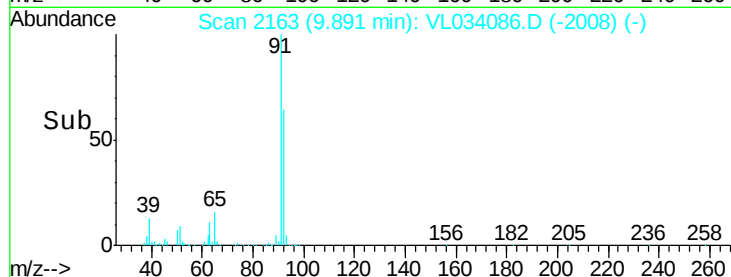
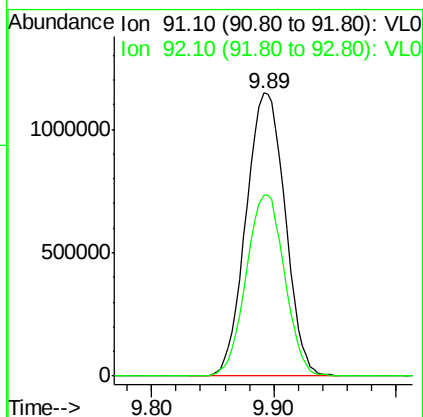
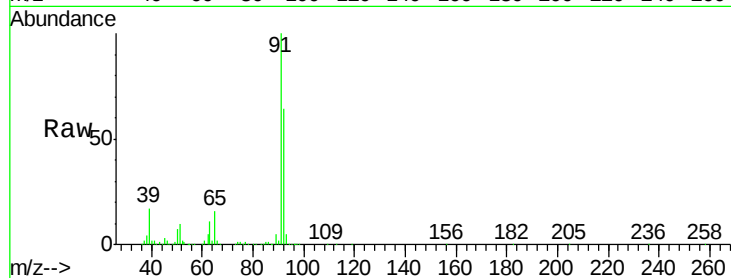
92 62.9 46.9 70.3

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#54

1,2-Dibromoethane

Concen: 10.804 ppbv

RT: 10.70 min Scan# 2416

Delta R.T. 0.00 min

Lab File: VL034086.D

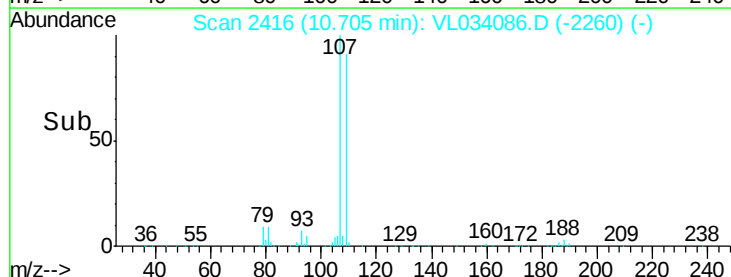
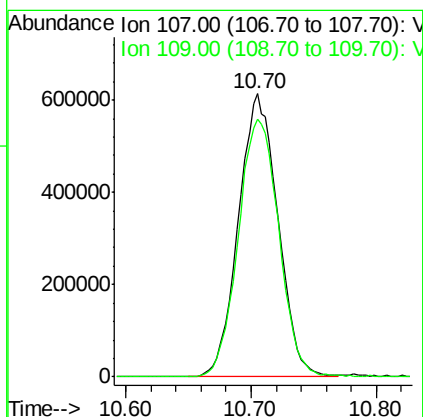
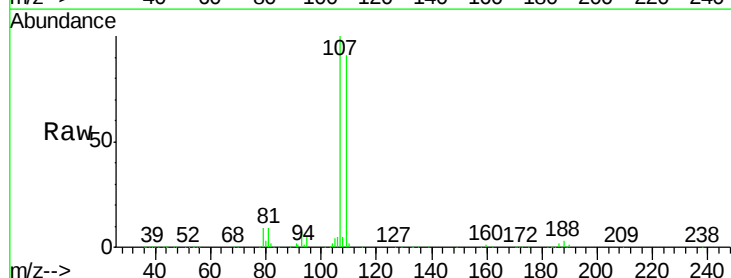
Acq: 5 Aug 2019 12:43

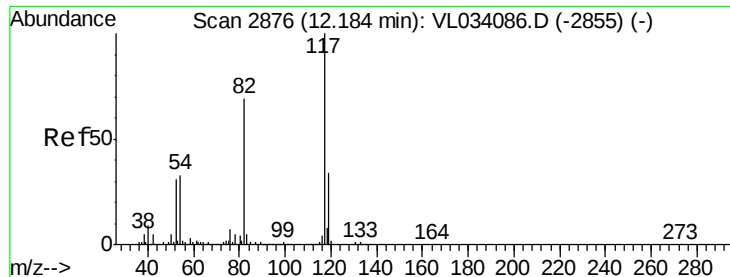
Tgt Ion:107 Resp: 1339174

Ion Ratio Lower Upper

107 100

109 91.1 68.9 103.3





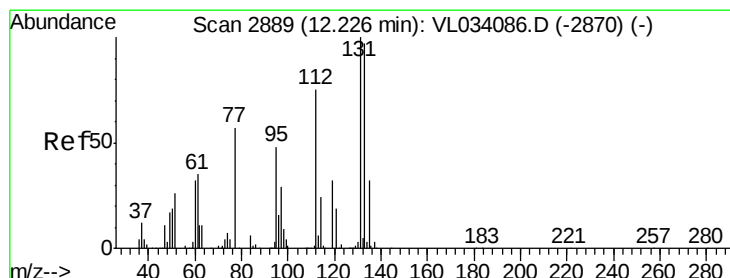
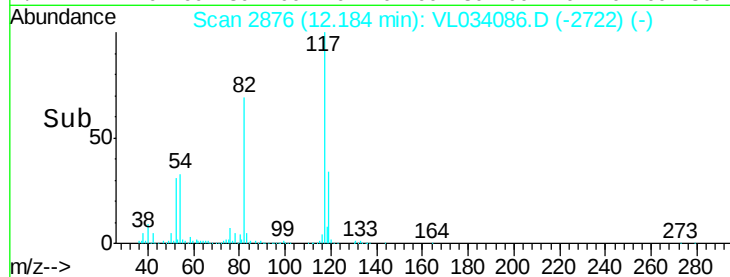
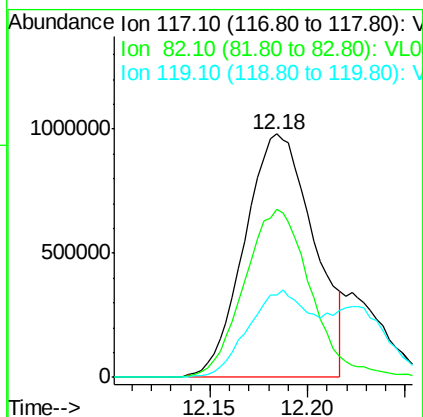
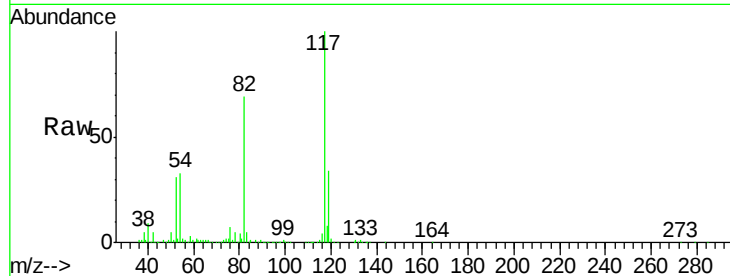
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.18 min Scan# 2876
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.1	52.2	78.4
119	57.6	26.3	39.5#

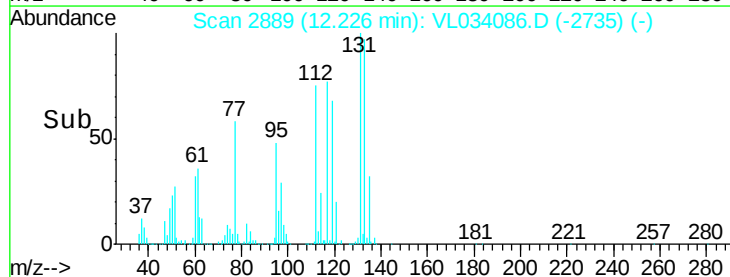
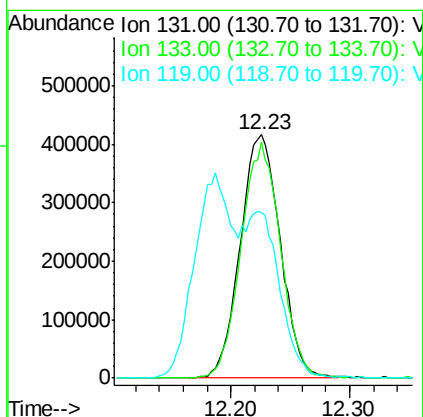
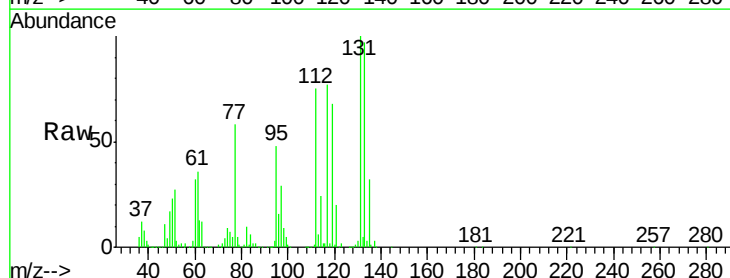
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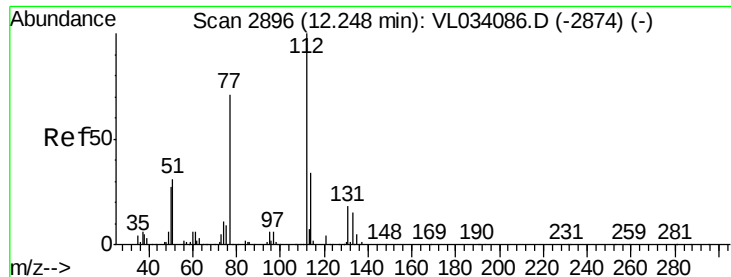
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.108 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	76.7	115.1
119	143.4	41.6	62.4#





#57

Chlorobenzene

Concen: 9.276 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 112 Resp: 1828249

Ion Ratio Lower Upper

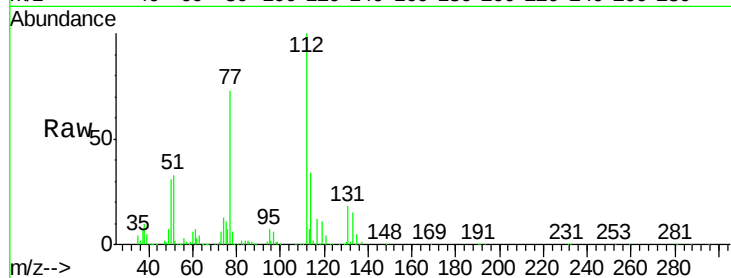
112 100

77 72.2 55.5 83.3

114 33.7 28.7 35.1

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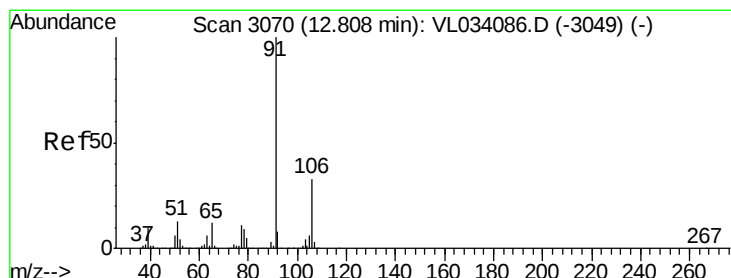
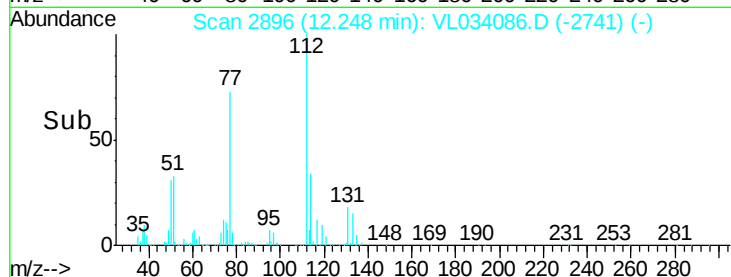
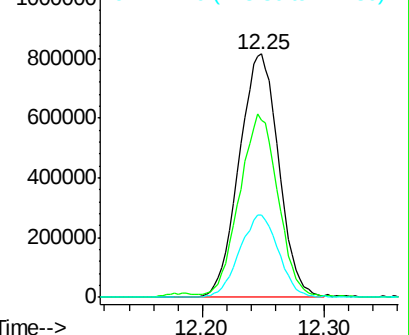
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.577 ppbv

RT: 12.81 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VL034086.D

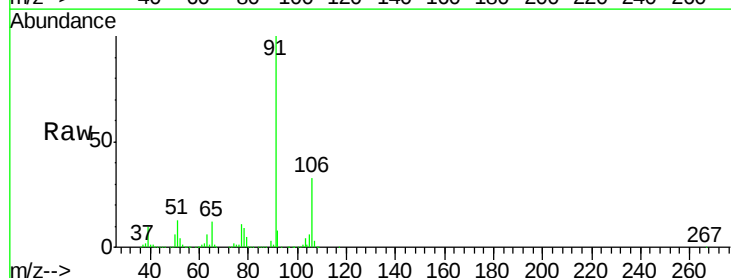
Acq: 5 Aug 2019 12:43

Tgt Ion: 91 Resp: 3369605

Ion Ratio Lower Upper

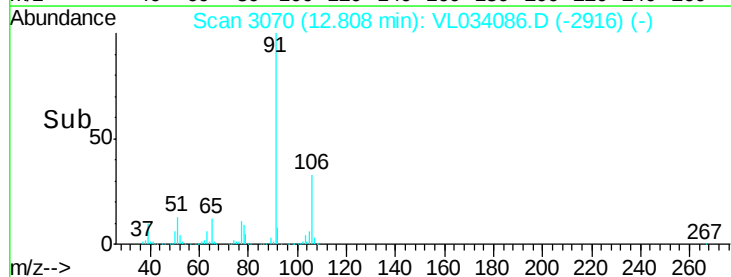
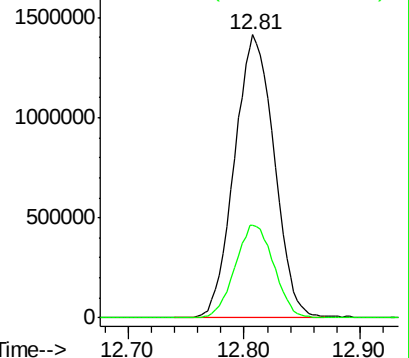
91 100

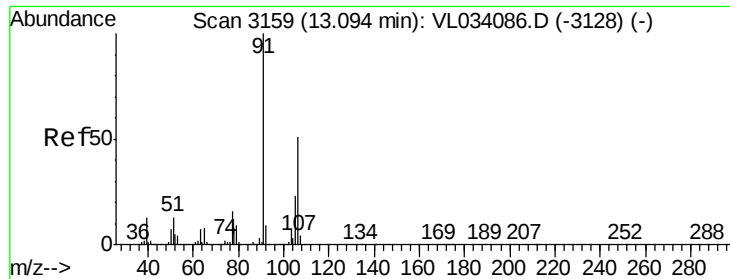
106 32.5 23.4 35.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





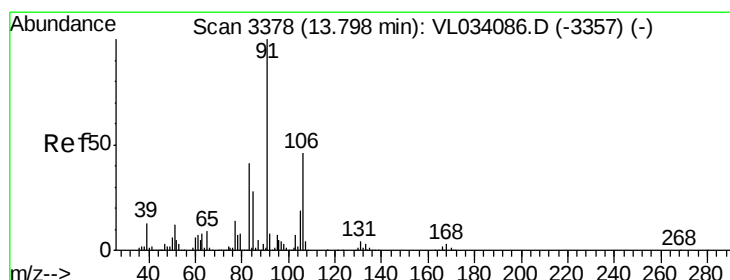
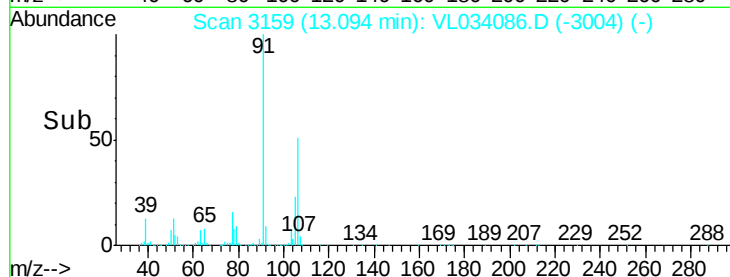
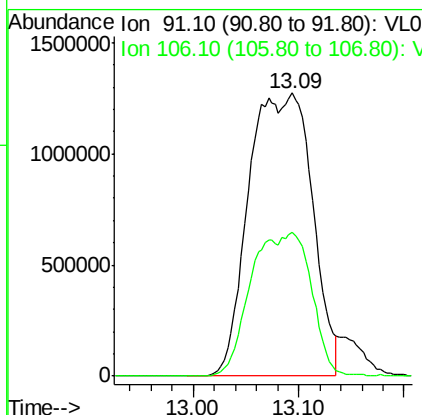
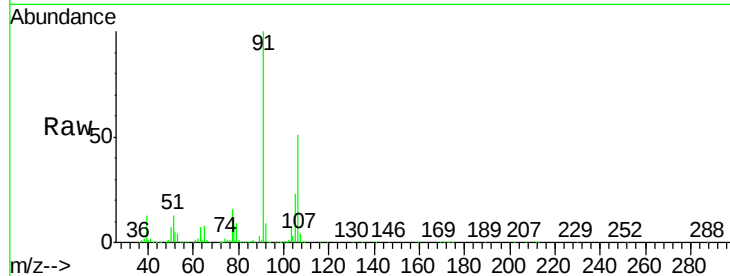
#59
m/p-Xylene
Concen: 18.675 ppbv m
RT: 13.09 min Scan# 3159
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 5315798
Ion Ratio Lower Upper
91 100
106 48.4 34.5 51.7

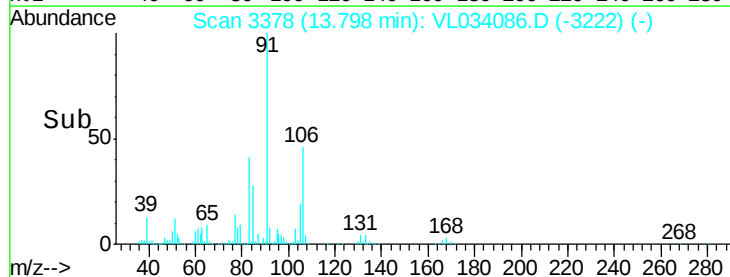
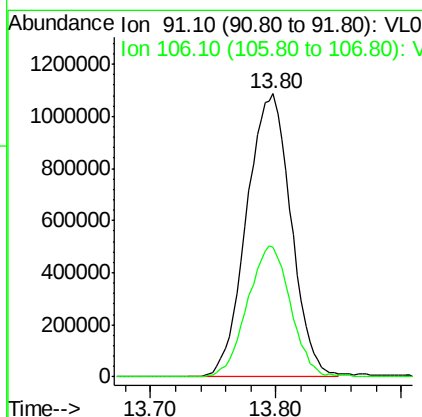
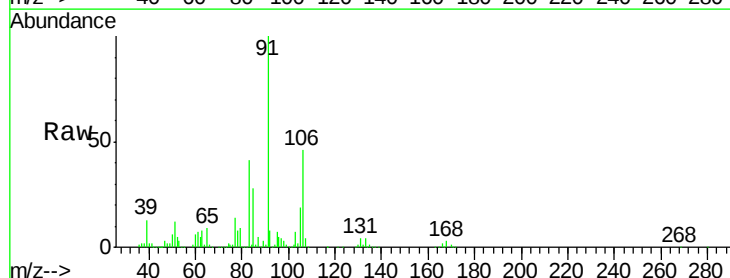
Manual Integrations
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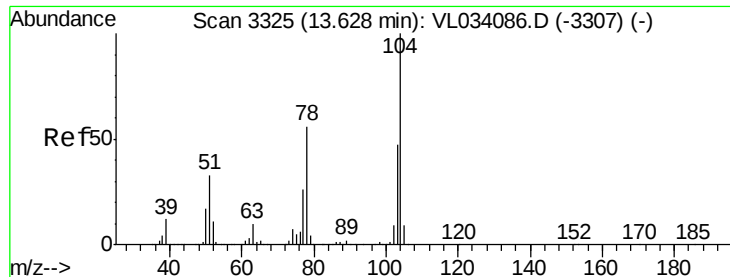
MMDadoda
8/8/2019 12:41:05 PM



#60
o-Xylene
Concen: 9.312 ppbv
RT: 13.80 min Scan# 3378
Delta R.T. 0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion: 91 Resp: 2663569
Ion Ratio Lower Upper
91 100
106 45.1 21.2 63.6





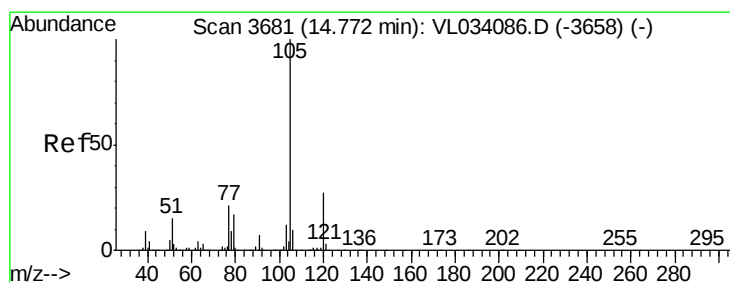
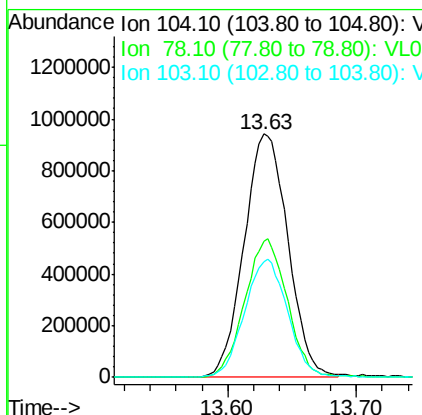
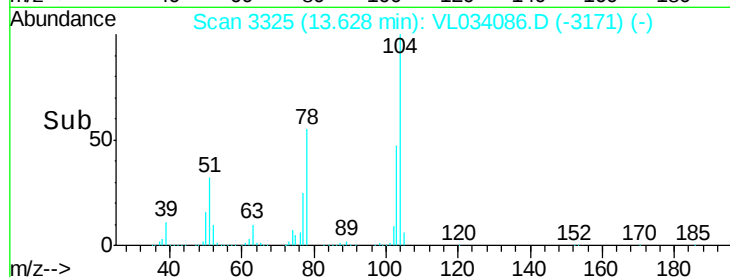
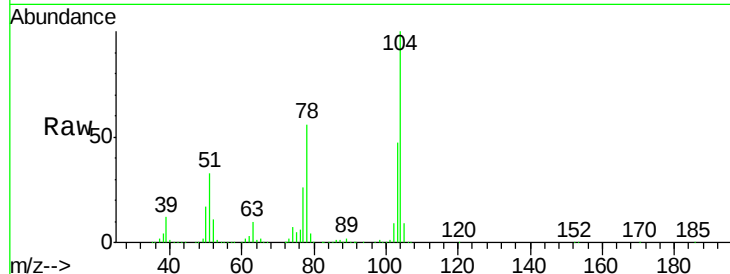
#61
Stvrene
Concen: 11.936 ppbv
RT: 13.63 min Scan# 3325
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.3	45.4	68.2
103	47.9	38.5	57.7

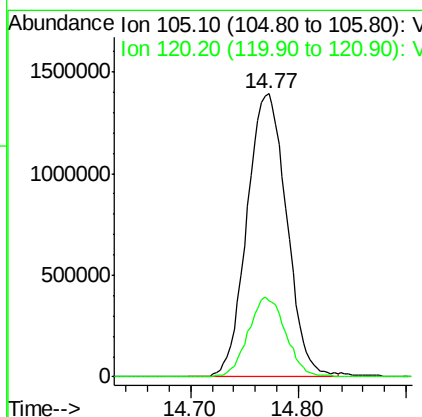
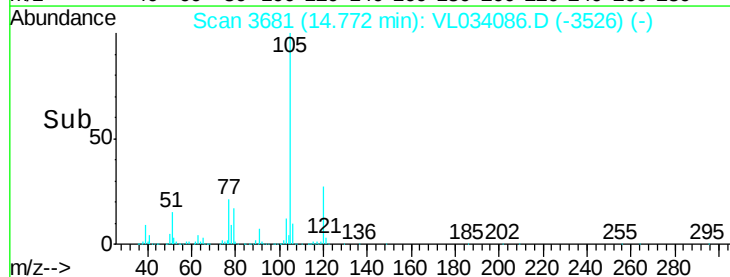
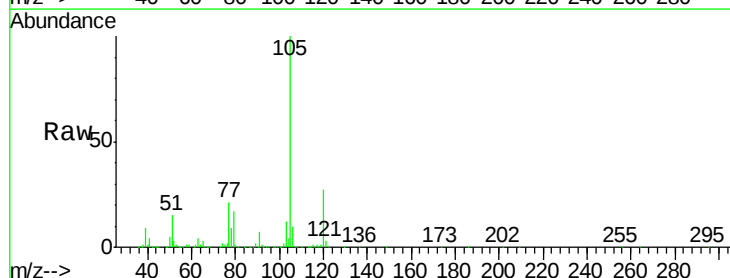
Manual Integrations
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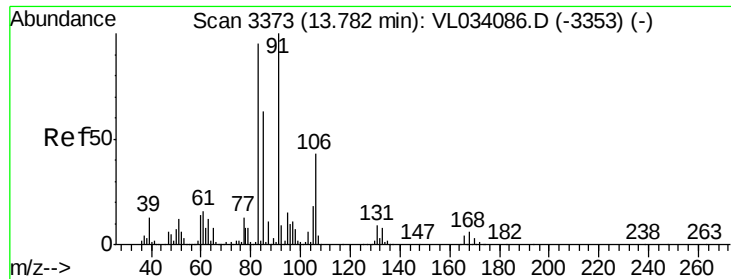
MMDadoda
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#62
Isopropylbenzene
Concen: 9.483 ppbv
RT: 14.77 min Scan# 3681
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	19.6	29.4





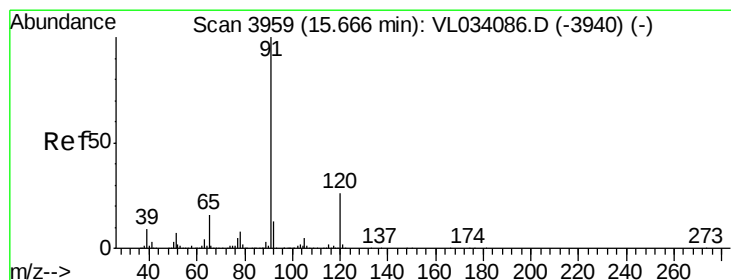
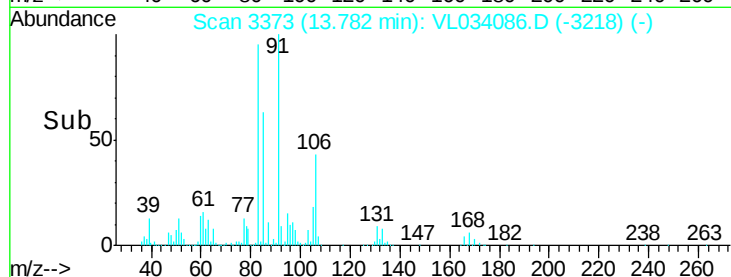
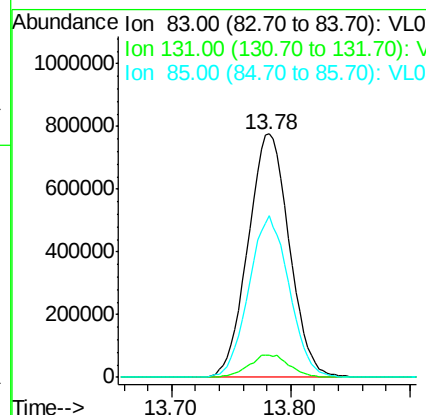
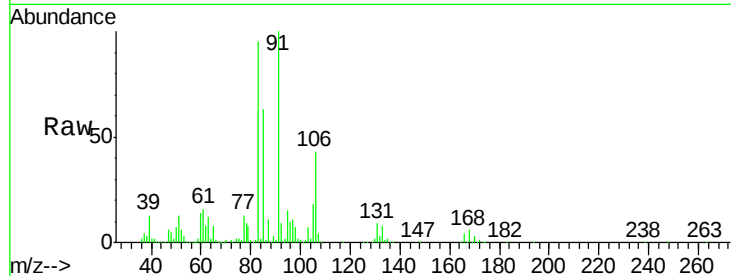
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.277 ppbv
 RT: 13.78 min Scan# 3373
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	83	Resp	1863177
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.5
85	65.2	32.8	98.4

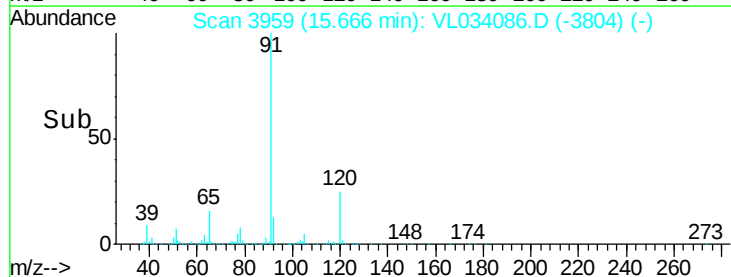
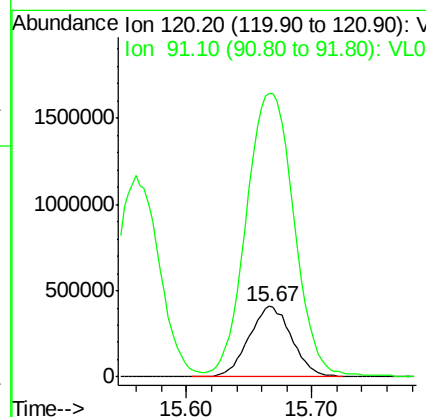
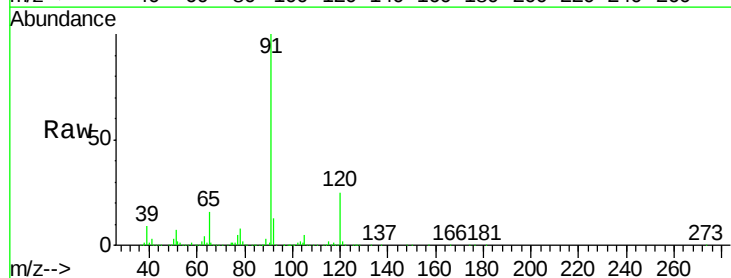
Manual Integrations
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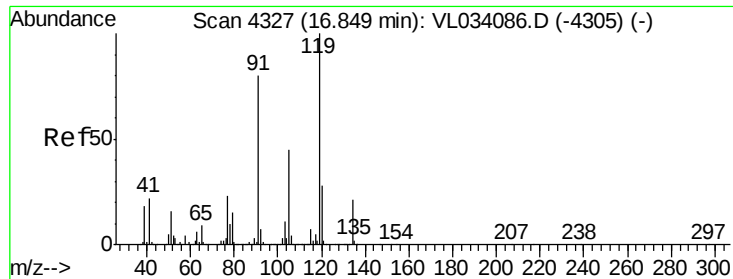
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#64
 n-propylbenzene
 Concen: 10.244 ppbv
 RT: 15.67 min Scan# 3959
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion	120	Resp	972661
Ion	Ratio	Lower	Upper
120	100		
91	449.6	400.5	600.7





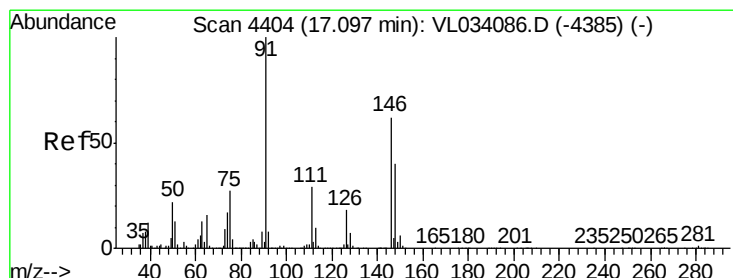
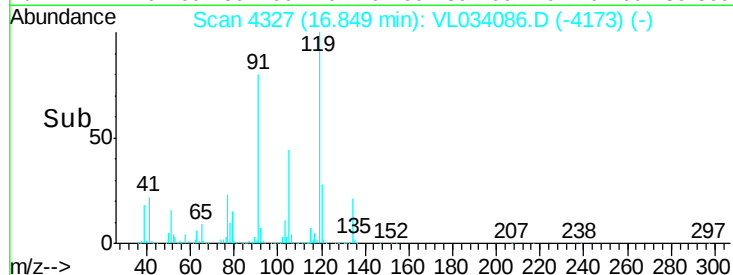
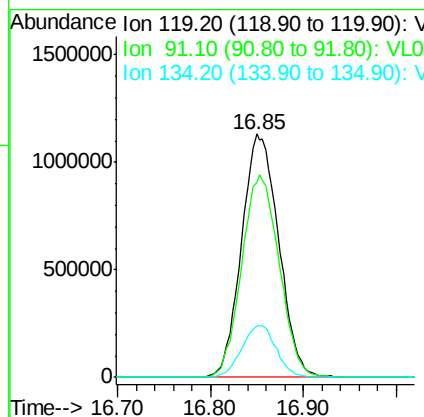
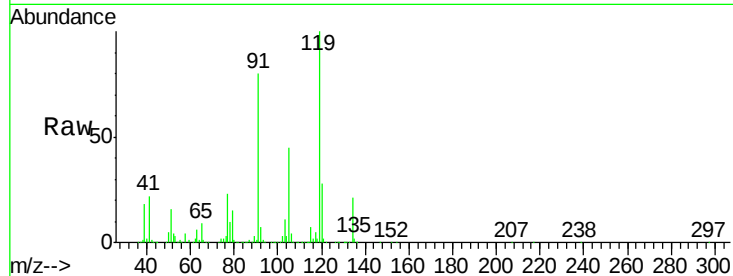
#65
tert-Butylbenzene
Concen: 9.290 ppbv
RT: 16.85 min Scan# 4327
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.5	69.0	103.6
134	20.0	15.4	23.0

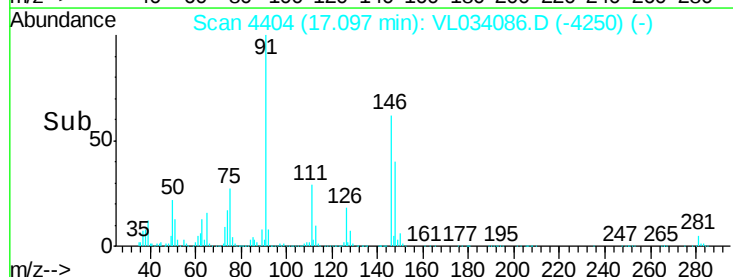
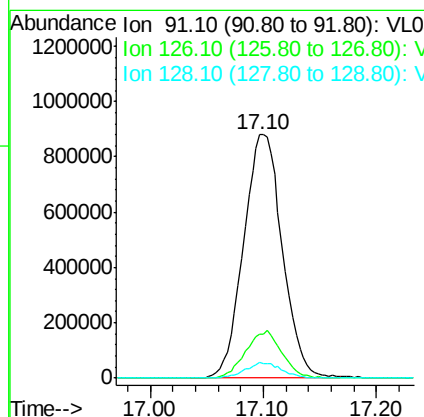
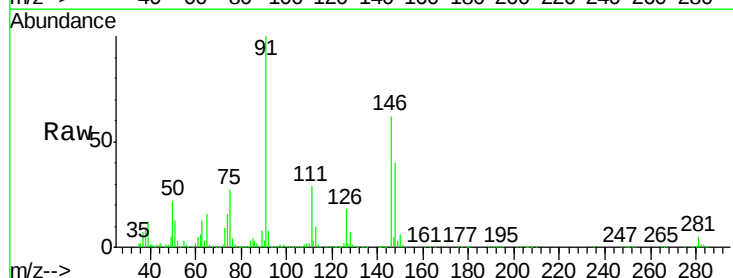
Manual Integrations
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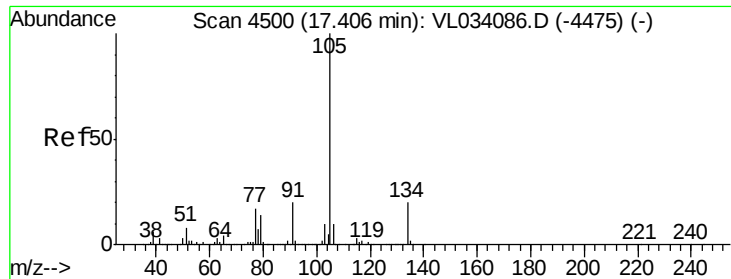
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#66
Benzyl Chloride
Concen: 12.695 ppbv
RT: 17.10 min Scan# 4404
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.5	13.0	19.6
128	6.0	4.1	6.1





#67

sec-Butylbenzene

Concen: 8.935 ppbv

RT: 17.41 min Scan# 4500

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 4314873

Ion Ratio Lower Upper

105 100

134 19.3

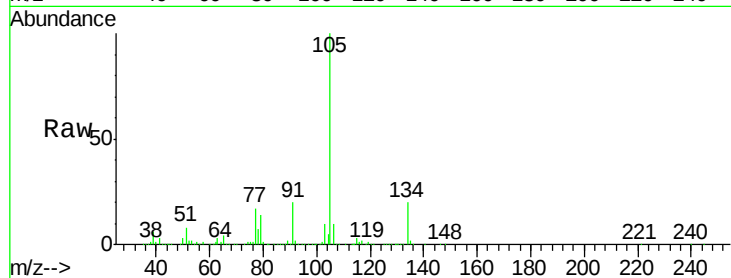
14.2 21.2

Manual Integrations

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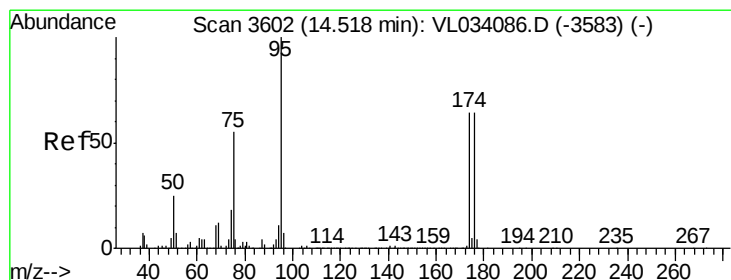
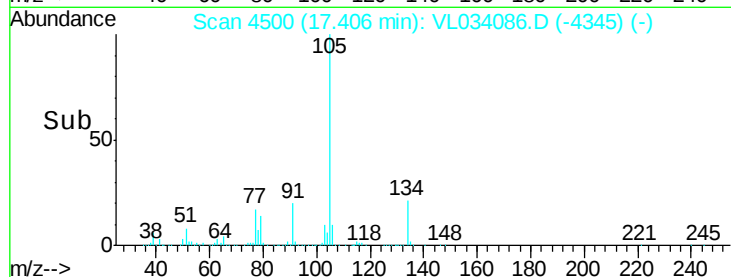
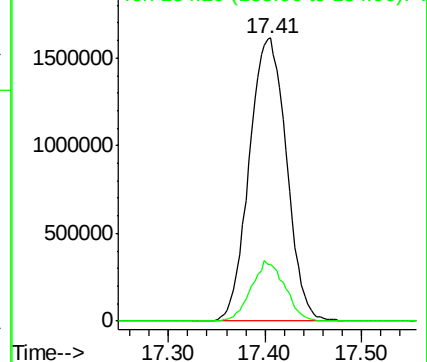
MMDadoda

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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: 9.045 ppbv

RT: 14.52 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tgt Ion: 95 Resp: 1928914

Ion Ratio Lower Upper

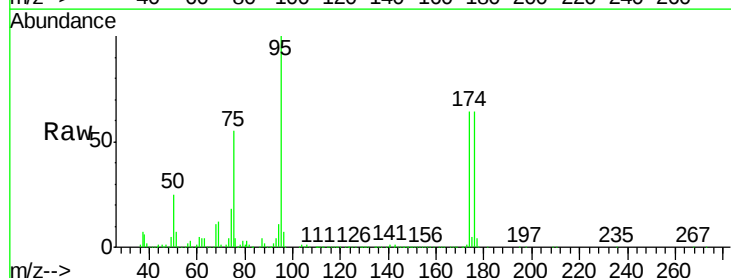
95 100

174 66.3

52.1 78.1

175 5.2

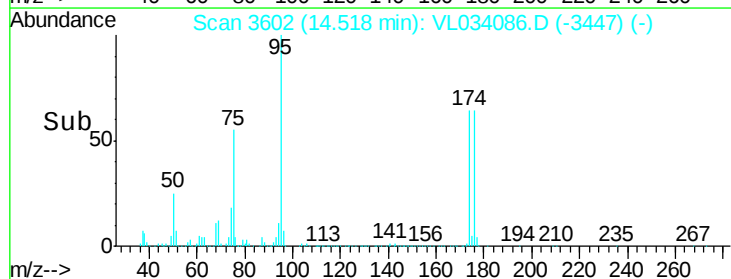
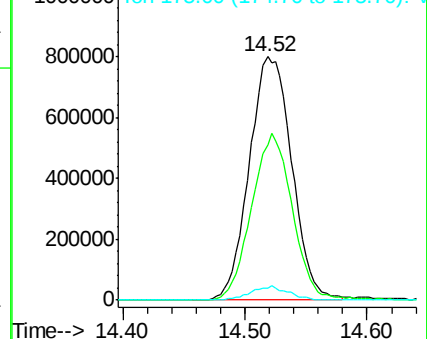
3.9 5.9

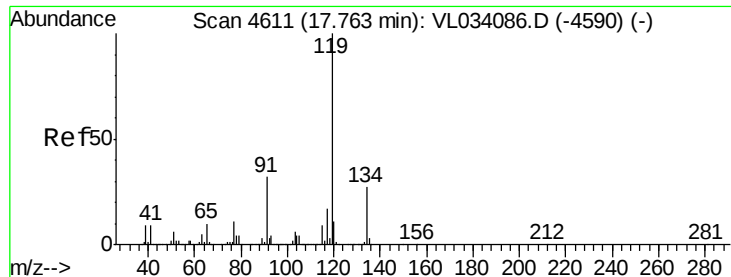


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 9.227 ppbv

RT: 17.76 min Scan# 4611

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 3629321

Ion Ratio Lower Upper

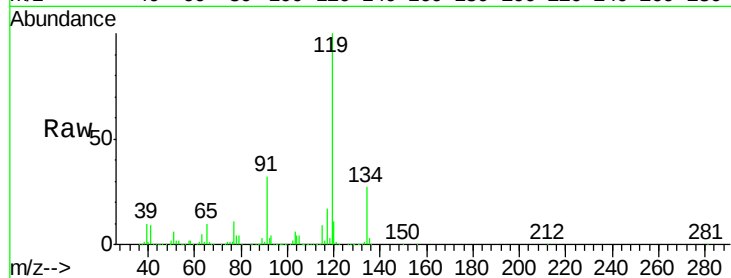
119 100

134 26.6 19.8 29.8

91 31.7 24.4 36.6

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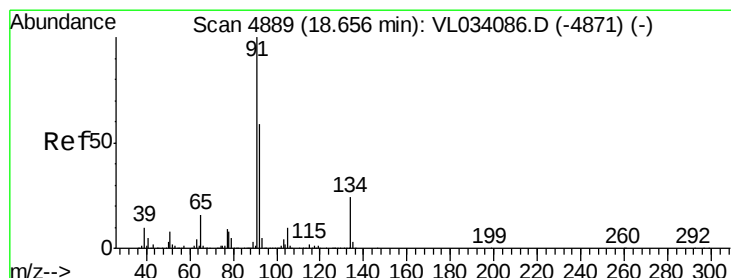
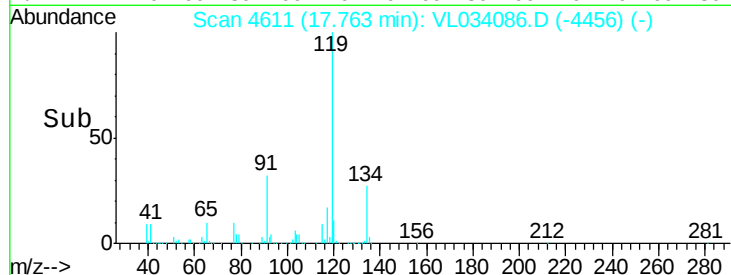
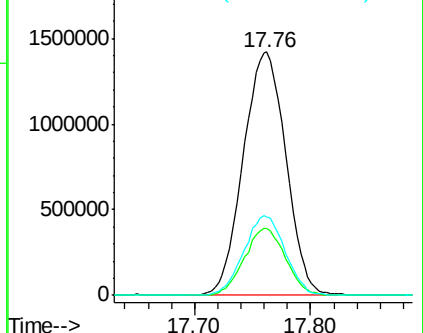
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 8.892 ppbv

RT: 18.66 min Scan# 4889

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

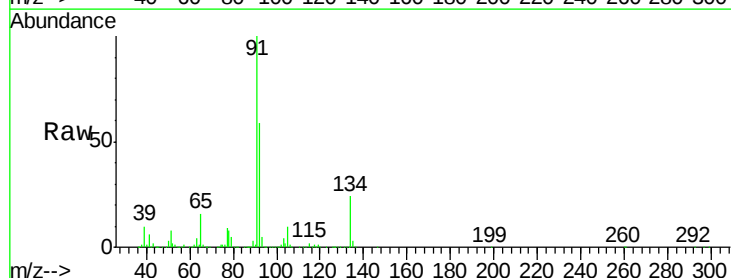
Tgt Ion: 91 Resp: 3815725

Ion Ratio Lower Upper

91 100

92 57.4 43.0 64.6

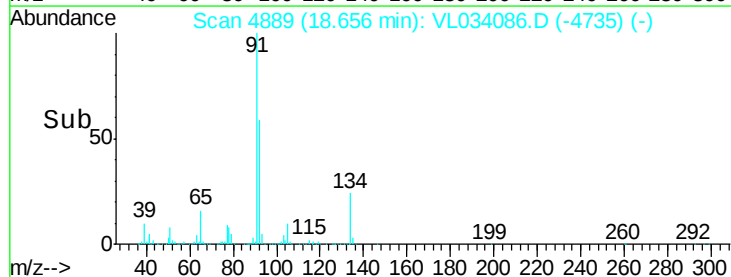
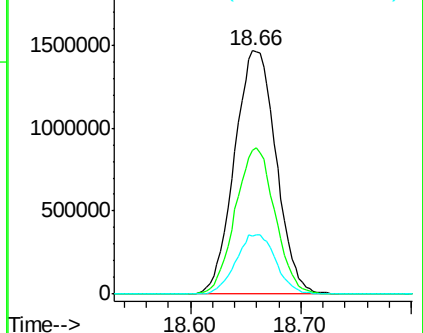
134 23.7 17.1 25.7

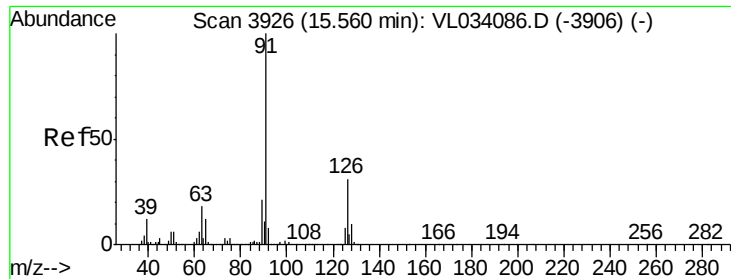


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.287 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2859207

Ion Ratio Lower Upper

91 100

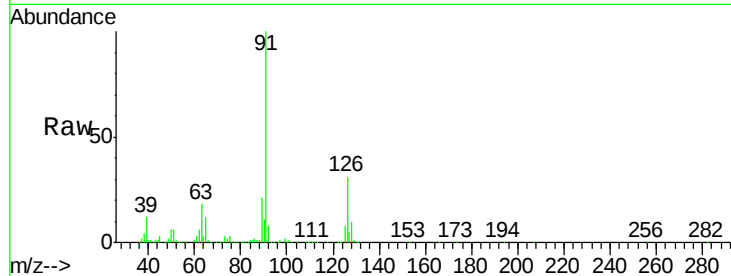
126 30.4 11.3 45.1

Manual Integrations

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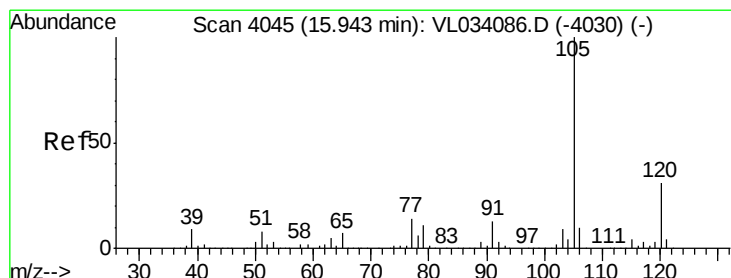
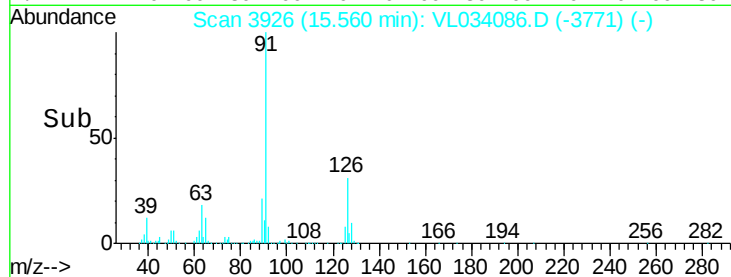
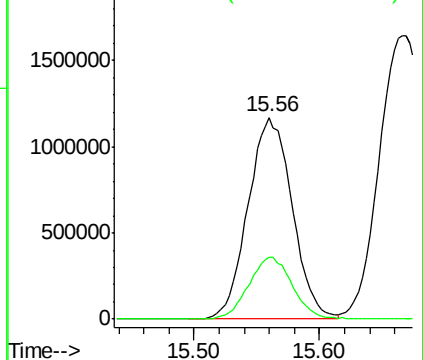
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.845 ppbv

RT: 15.94 min Scan# 4045

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tgt Ion:105 Resp: 3155658

Ion Ratio Lower Upper

105 100

120 30.2 22.5 33.7

91 13.1 10.6 15.8

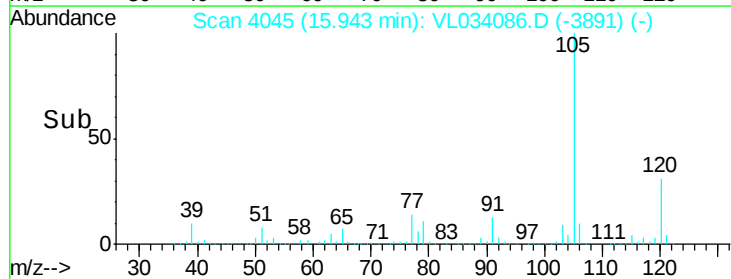
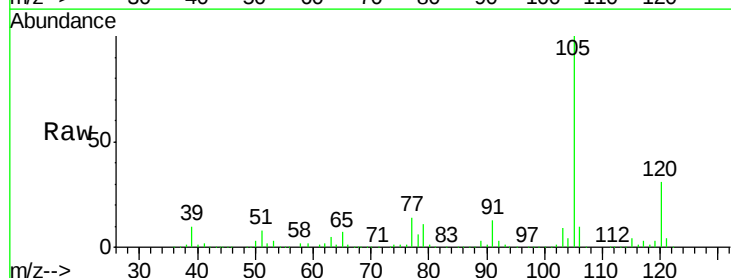
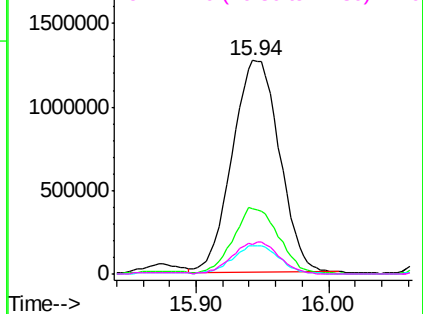
77 14.9 11.5 17.3

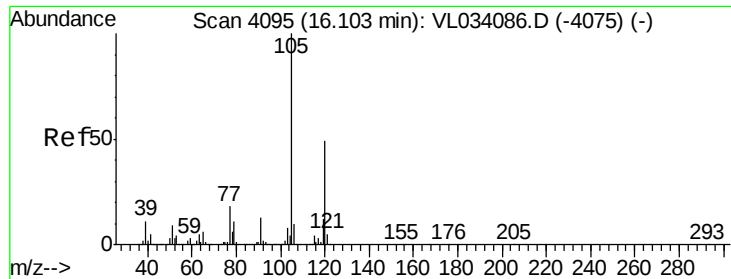
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.580 ppbv

RT: 16.10 min Scan# 4095

Delta R.T. 0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 3023738

Ion Ratio Lower Upper

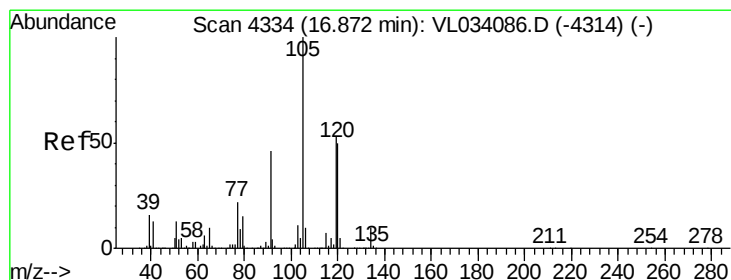
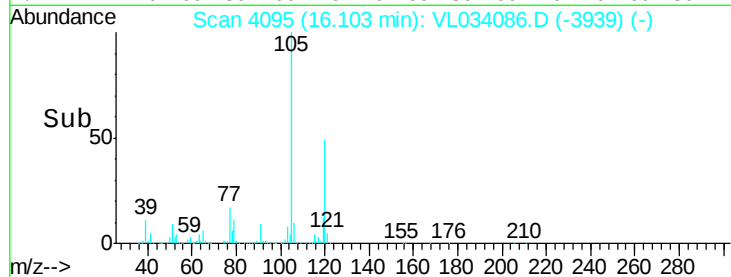
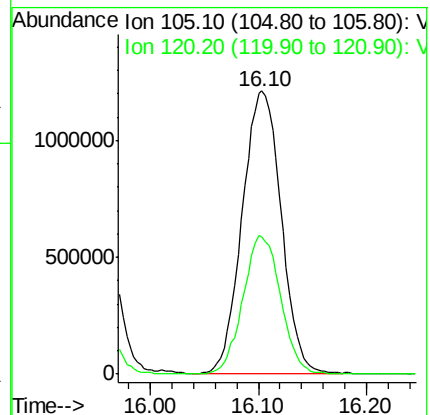
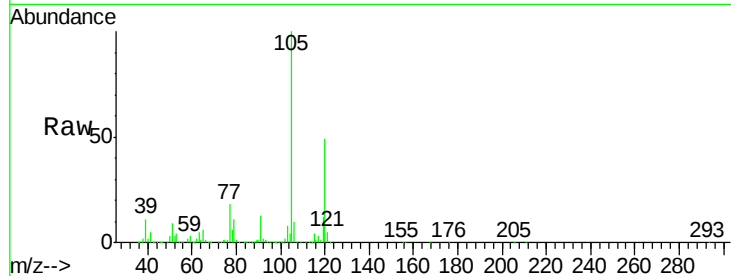
105 100

120 48.7 35.2 52.8

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#74

1,2,4-Trimethylbenzene

Concen: 8.661 ppbv

RT: 16.87 min Scan# 4334

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Tgt Ion:105 Resp: 3024903

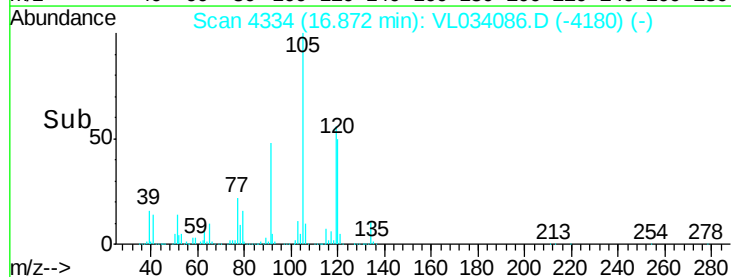
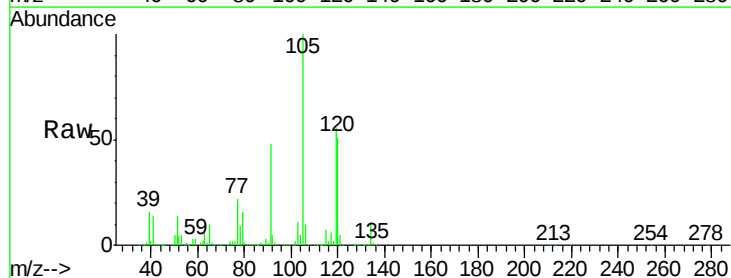
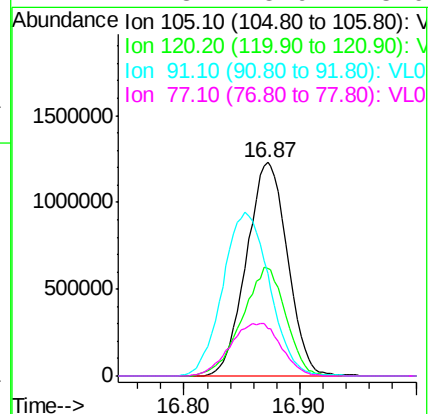
Ion Ratio Lower Upper

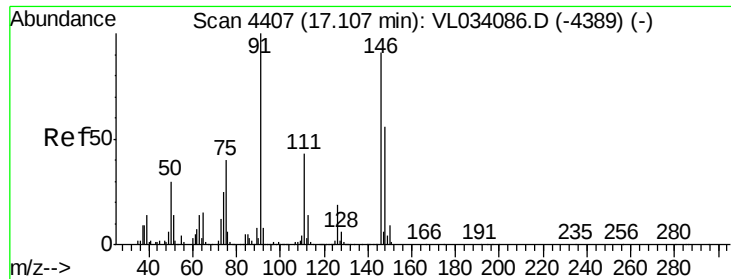
105 100

120 50.3 34.8 52.2

91 47.6 30.0 45.0#

77 22.3 15.9 23.9





#75

1,3-Dichlorobenzene

Concen: 8.532 ppbv

RT: 17.11 min Scan# 4407

Delta R.T. -0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 1764210

Ion Ratio Lower Upper

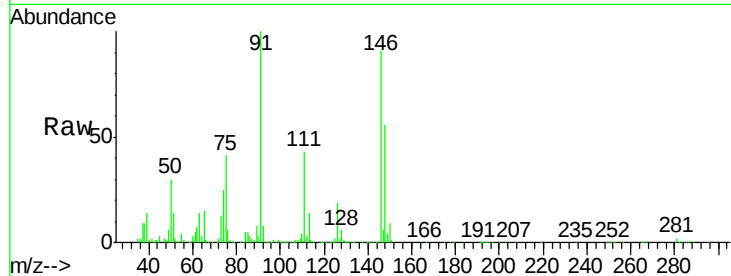
146 100

111 47.7 24.6 73.6

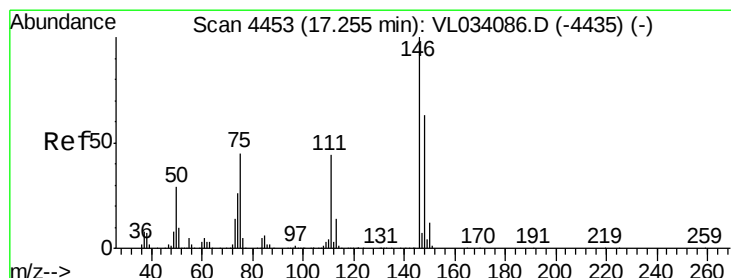
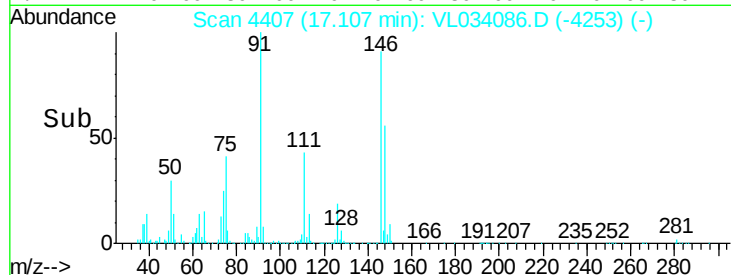
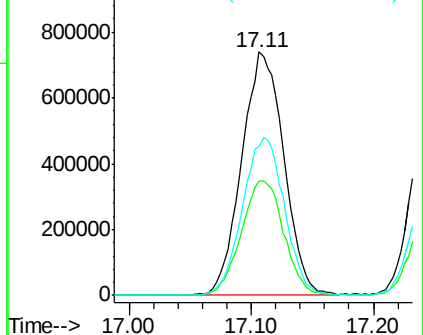
148 64.8 32.0 96.0

Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.261 ppbv

RT: 17.25 min Scan# 4453

Delta R.T. 0.00 min

Lab File: VL034086.D

Acq: 5 Aug 2019 12:43

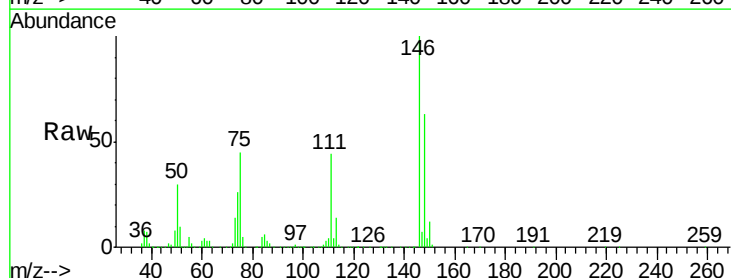
Tgt Ion:146 Resp: 1808295

Ion Ratio Lower Upper

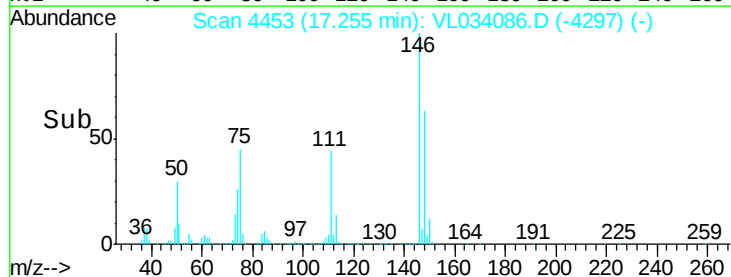
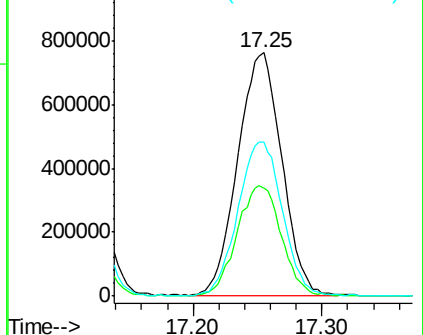
146 100

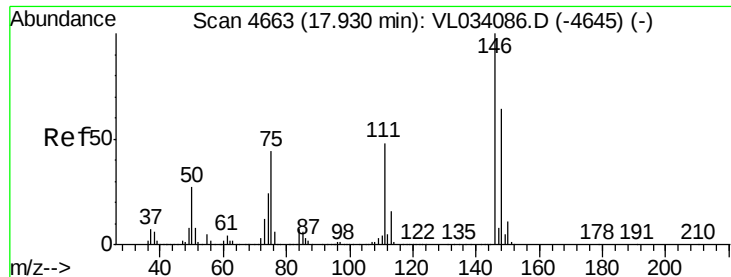
111 46.3 23.6 71.0

148 64.3 32.6 97.7



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





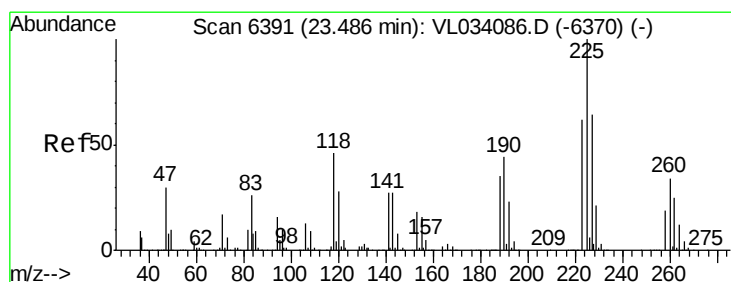
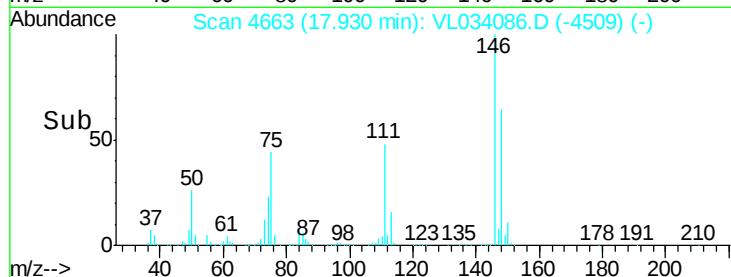
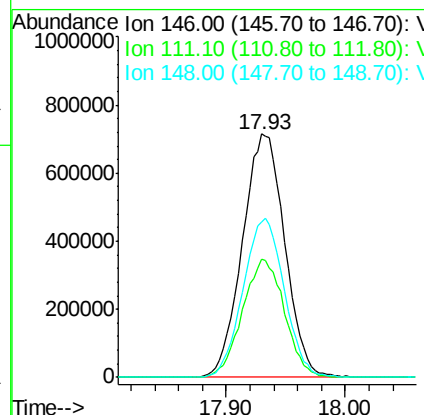
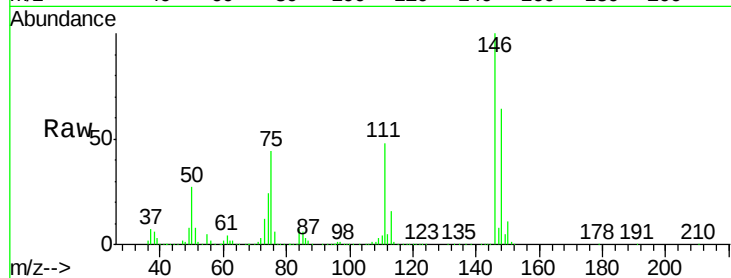
#77
 1,2-Dichlorobenzene
 Concen: 9.064 ppbv
 RT: 17.93 min Scan# 4663
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.0	24.7	74.1
148	63.8	32.0	96.2

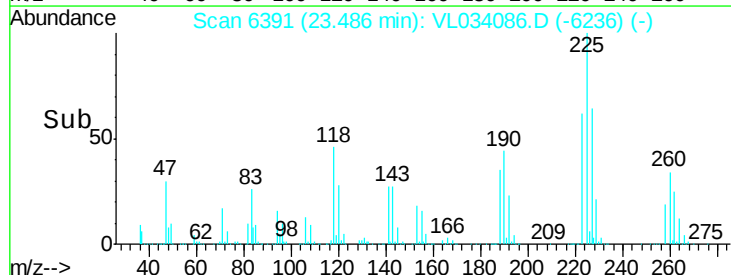
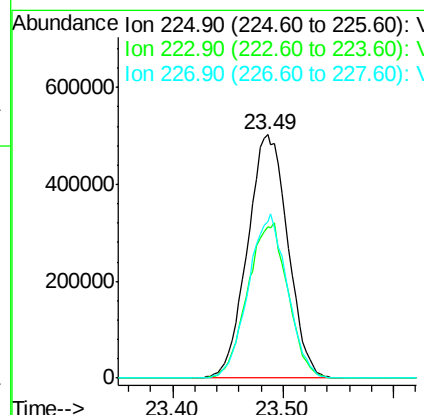
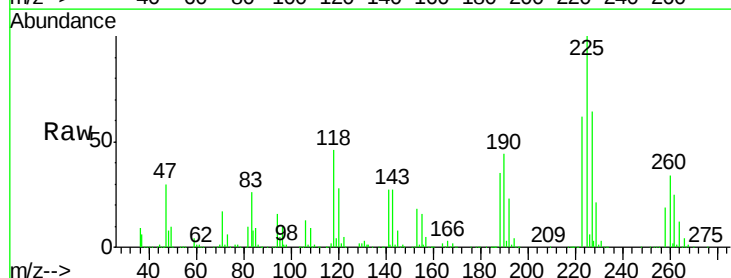
Manual Integrations
 APPROVED

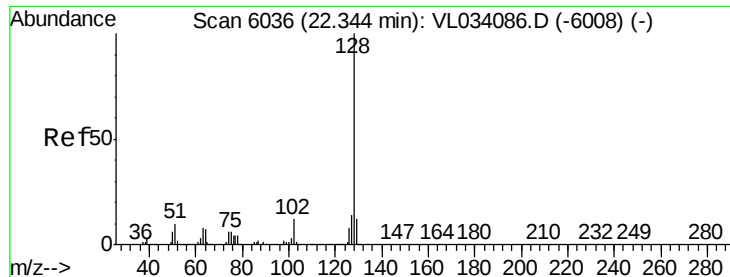
MMDadoda
 8/8/2019 12:41:05 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.127 ppbv
 RT: 23.49 min Scan# 6391
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.3	75.5
227	65.2	51.1	76.7





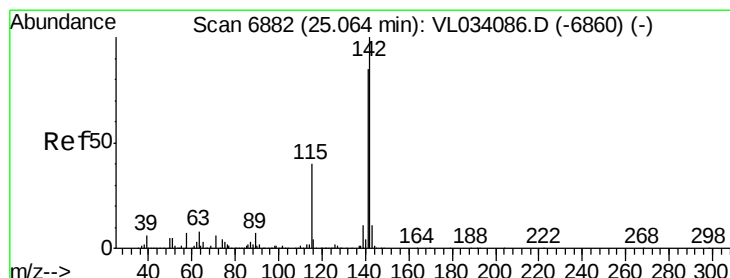
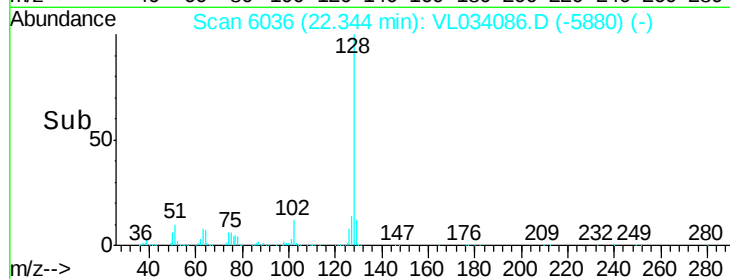
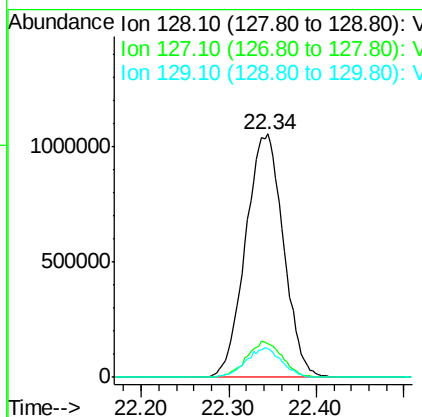
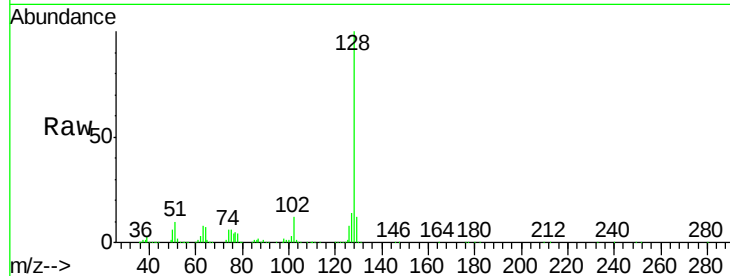
#79
Naphthalene
Concen: 10.096 ppbv
RT: 22.34 min Scan# 6036
Delta R.T. 0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	9.7	14.5
129	11.5	7.8	11.6

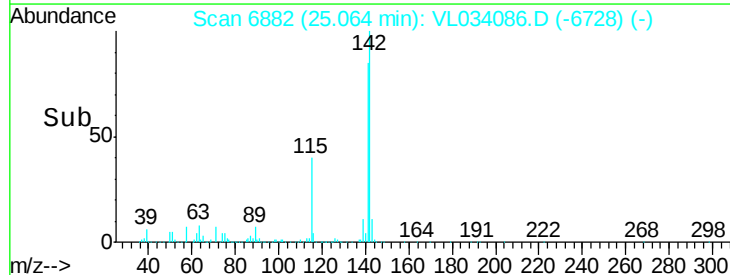
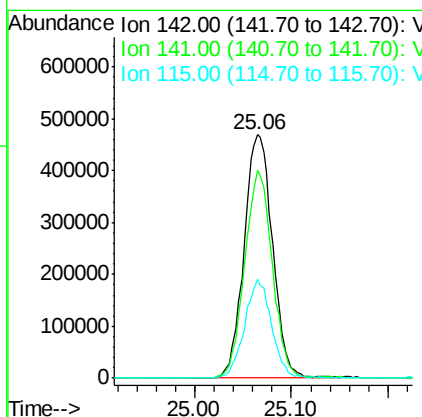
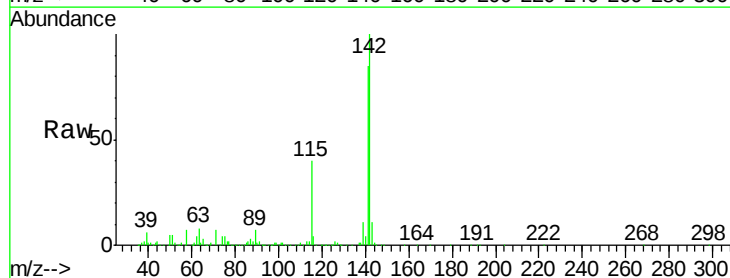
Manual Integrations
APPROVED

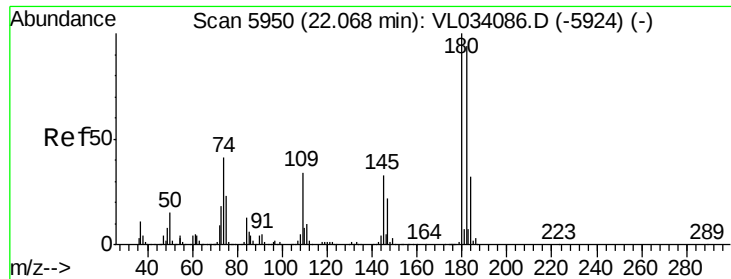
MMDadoda
8/8/2019 12:41:05 PM



#80
Naphthalene, 2-methyl-
Concen: 7.985 ppbv
RT: 25.06 min Scan# 6882
Delta R.T. -0.00 min
Lab File: VL034086.D
Acq: 5 Aug 2019 12:43

Tgt Ion	Ratio	Lower	Upper
142	100		
141	82.6	69.0	103.4
115	38.5	31.1	46.7





#81
 1,2,4-Trichlorobenzene
 Concen: 9.050 ppbv
 RT: 22.07 min Scan# 5950
 Delta R.T. -0.00 min
 Lab File: VL034086.D
 Acq: 5 Aug 2019 12:43

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.9	115.3
184	31.2	24.7	37.1

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:05 PM

