

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034055.D
 Acq On : 30 Jul 2019 7:18
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVV073019

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:41 AM

Quant Time: Jul 30 08:00:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 08:00:25 2019
 QLast Update : Tue Jul 30 06:55:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1222231	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4516542	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.19	117	3463908m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2608548	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1898877	8.088	ppbv	95
3) Chlorodifluoromethane	2.99	51	1300654	9.219	ppbv	98
4) Chloromethane	3.14	50	693961	8.386	ppbv	96
5) Vinyl Chloride	3.26	62	758081	8.313	ppbv	100
6) Bromomethane	3.48	94	486958	8.483	ppbv	97
7) Chloroethane	3.57	64	295376	7.993	ppbv	95
8) Dichlorotetrafluoroethane	3.19	85	1917880	8.201	ppbv	99
9) Propene	3.01	41	499293	9.858	ppbv	96
10) Heptane	8.20	43	1445335	10.463	ppbv	99
11) Trichlorofluoromethane	3.97	101	2078832	7.962	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1501941	8.552	ppbv	99
13) Ethanol	3.62	45	161984	8.035	ppbv	97
14) Bromoethene	3.76	108	633741	8.545	ppbv	99
15) Acetone	3.87	43	1436938	7.733	ppbv	100
16) 1,3-Butadiene	3.34	39	652406	9.041	ppbv	98
17) tert-Butyl alcohol	4.32	59	1461826	9.568	ppbv	99
18) 1,1-Dichloroethene	4.32	96	674510	8.477	ppbv	95
19) Isopropyl Alcohol	3.99	45	1131907	8.919	ppbv #	99
20) Methylene Chloride	4.37	84	600964	8.456	ppbv	97
21) Allyl Chloride	4.44	41	1032545	8.804	ppbv	97
22) trans-1,2-Dichloroethene	4.92	96	656793	7.968	ppbv	99
23) Vinyl Acetate	5.12	43	1892471	9.510	ppbv	99
24) 1,1-Dichloroethane	5.05	63	1498346	8.476	ppbv	99
25) Ethyl Acetate	5.73	43	2590506	9.378	ppbv	100
26) Hexane	5.74	57	1199051	9.596	ppbv	98
27) Carbon Disulfide	4.58	76	1746661	8.977	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	1935795	9.103	ppbv	100
29) Chloroform	5.81	83	2004204	8.782	ppbv	97
30) Cyclohexane	7.20	84	1489523	11.733	ppbv	99
31) cis-1,2-Dichloroethene	5.60	61	1200474	9.858	ppbv	95
32) 1,1,1-Trichloroethane	6.57	97	1916997	8.003	ppbv	99
34) 2-Butanone	5.29	43	1487164	8.001	ppbv	99
35) Carbon Tetrachloride	7.09	117	3086691	9.684	ppbv	98
36) Benzene	6.96	78	3533147	11.751	ppbv	99
37) 1,2-Dichloroethane	6.37	62	1447937	7.008	ppbv	99
38) Trichloroethene	7.91	130	1068126	8.477	ppbv	94
39) 1,2-Dichloropropane	7.69	63	1303333	10.682	ppbv	97
40) 1,4-Dioxane	7.91	88	393532	8.168	ppbv #	1
41) Tetrahydrofuran	6.10	42	844474	8.944	ppbv	98
42) Bromodichloromethane	7.87	83	2315764	8.107	ppbv	94
43) Methyl Methacrylate	8.09	69	1022654	9.543	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	4246168	8.506	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1332029	9.660	ppbv	98
46) cis-1,3-Dichloropropene	8.79	75	1512959	9.763	ppbv	99
47) 1,1,2-Trichloroethane	9.57	97	1115599	8.790	ppbv	99
48) Dibromochloromethane	10.40	129	1963724	8.104	ppbv	99
49) Bromoform	13.15	173	1860402	8.807	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2526309	9.155	ppbv	99
51) 2-Hexanone	10.22	43	2075565	9.044	ppbv #	99
52) Tetrachloroethene	11.32	164	1053241	8.934	ppbv	98
53) Toluene	9.89	91	3090175	9.851	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1721955	9.141	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.23	131	1402077	9.058	ppbv	97
57) Chlorobenzene	12.25	112	2414619	8.997	ppbv	99
58) Ethyl Benzene	12.81	91	4289441	10.463	ppbv	100
59) m/p-Xylene	13.10	91	7185288m	19.281	ppbv	
60) o-Xylene	13.79	91	3573124	9.647	ppbv	100
61) Styrene	13.63	104	2565950	10.491	ppbv	99
62) Isopropylbenzene	14.77	105	4742529	9.557	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2523055	8.876	ppbv	100
64) n-propylbenzene	15.67	120	1193842	9.291	ppbv	97
65) tert-Butylbenzene	16.86	119	4248520	9.288	ppbv	99
66) Benzyl Chloride	17.10	91	1944587	8.472	ppbv	100
67) sec-Butylbenzene	17.41	105	6045160	9.297	ppbv	100
69) p-Isopropyltoluene	17.77	119	4956384	9.352	ppbv	99
70) n-Butylbenzene	18.66	91	5293981	9.436	ppbv	99
71) 2-Chlorotoluene	15.56	91	3629311	10.074	ppbv	100
72) 4-Ethyltoluene	15.95	105	4089469	9.765	ppbv	99
73) 1,3,5-Trimethylbenzene	16.11	105	3947918	9.262	ppbv	99
74) 1,2,4-Trimethylbenzene	16.87	105	4060280	8.671	ppbv #	85
75) 1,3-Dichlorobenzene	17.11	146	2380459	8.149	ppbv	99
76) 1,4-Dichlorobenzene	17.25	146	2352242	8.531	ppbv	100
77) 1,2-Dichlorobenzene	17.94	146	2330739	8.666	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	1750840	7.076	ppbv	98
79) Naphthalene	22.34	128	3523532	8.633	ppbv	97
80) Naphthalene, 2-methyl-	25.07	142	674210	4.737	ppbv	99
81) 1,2,4-Trichlorobenzene	22.07	180	2053900m	7.806	ppbv	

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

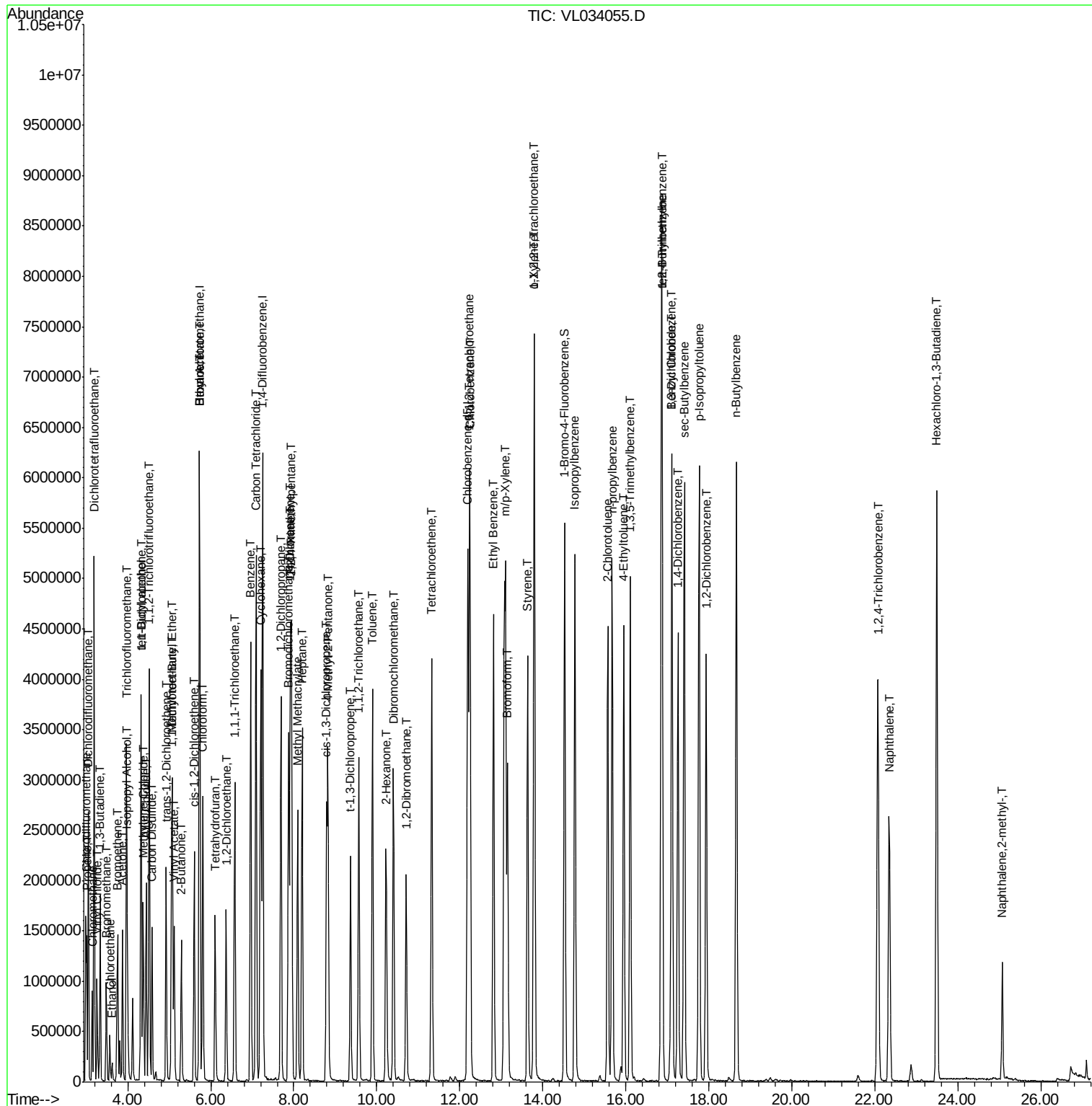
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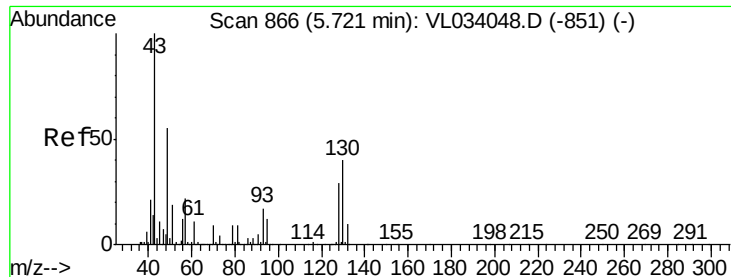
Instrument :
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 867

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 49 Resp: 1222231

Ion Ratio Lower Upper

49 100

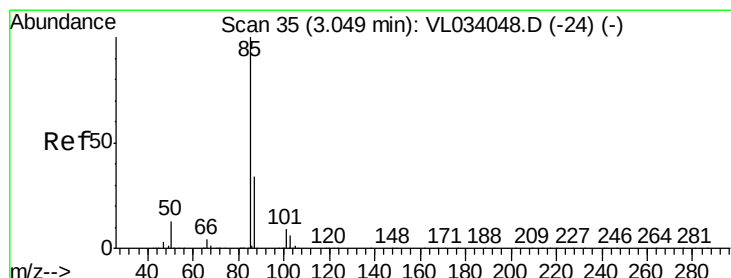
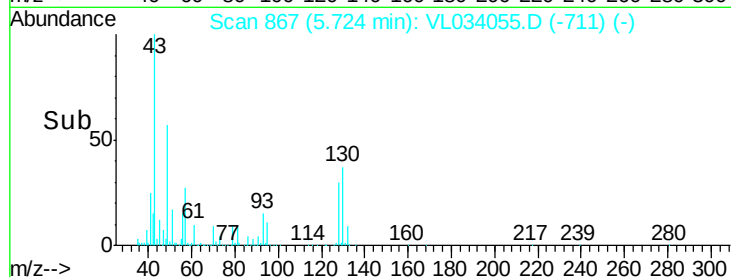
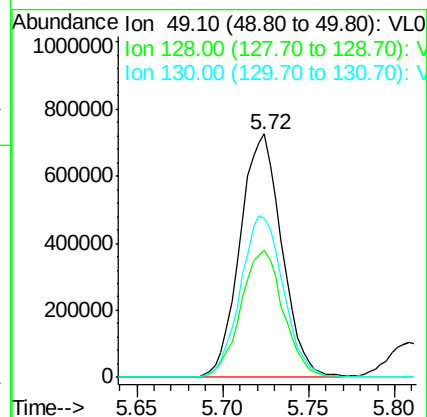
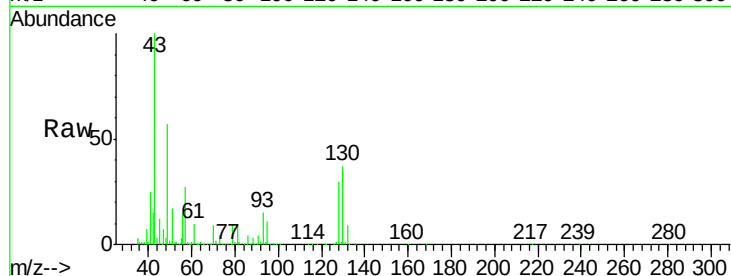
128 53.7 27.0 81.0

130 69.0 35.0 105.0

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#2

Dichlorodifluoromethane

Concen: 8.088 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL034055.D

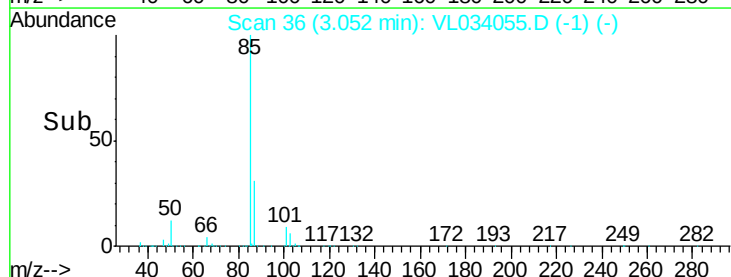
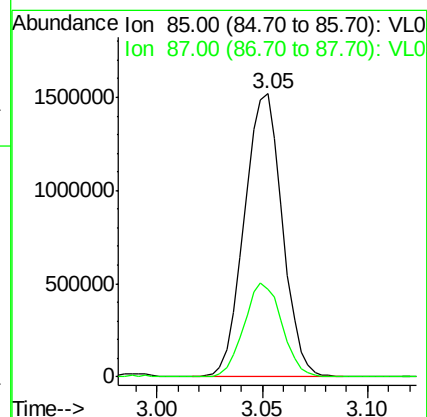
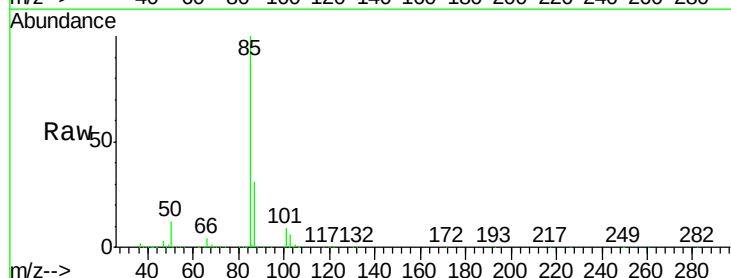
Acq: 30 Jul 2019 7:18

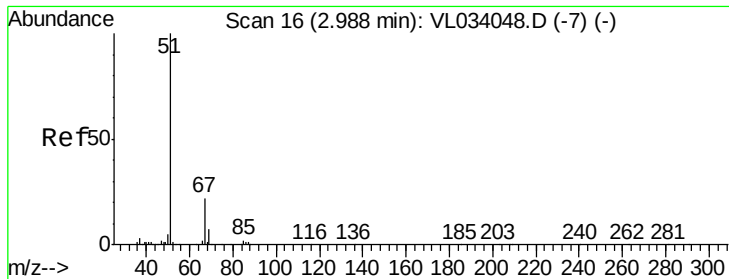
Tgt Ion: 85 Resp: 1898877

Ion Ratio Lower Upper

85 100

87 31.1 27.0 40.4





#3

Chlorodifluoromethane

Concen: 9.219 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Tot Ion: 51 Resp: 1300654

Ion Ratio Lower Upper

51 100

67 20.7 17.4 26.0

Instrument :

MSVOA_L

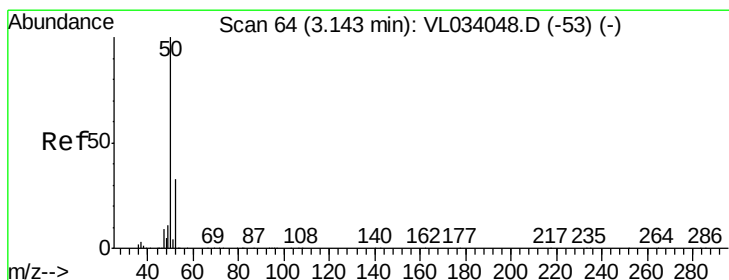
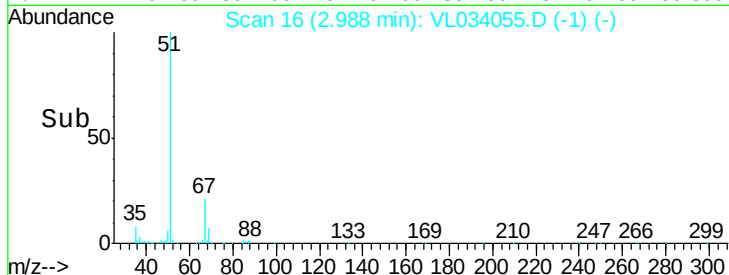
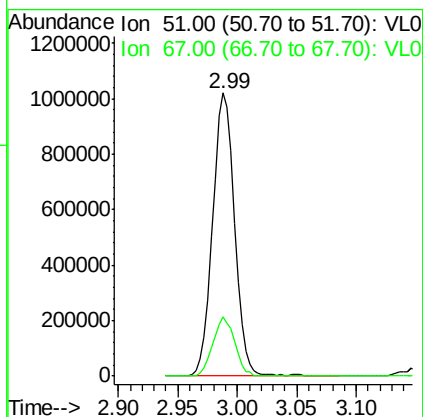
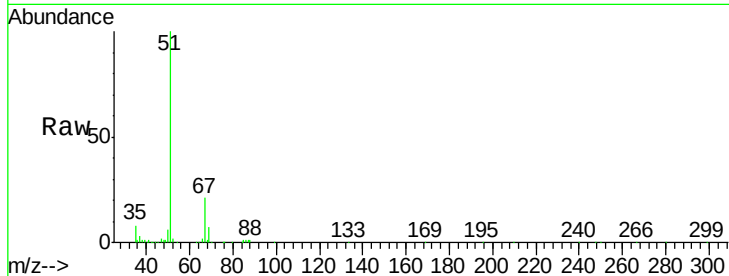
ClientSampleId :

ICVVL073019

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#4

Chloromethane

Concen: 8.386 ppbv

RT: 3.14 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL034055.D

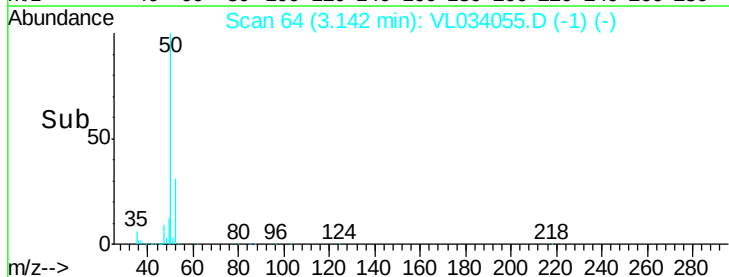
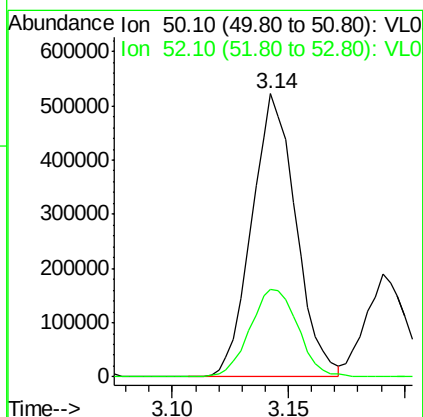
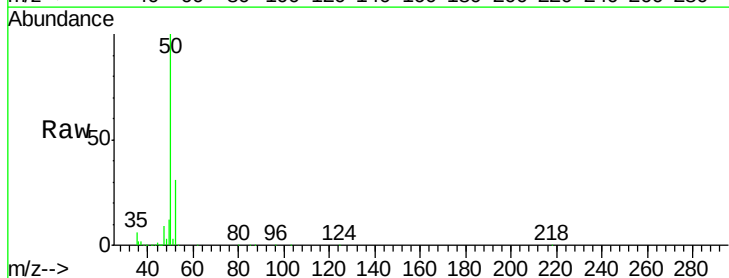
Acq: 30 Jul 2019 7:18

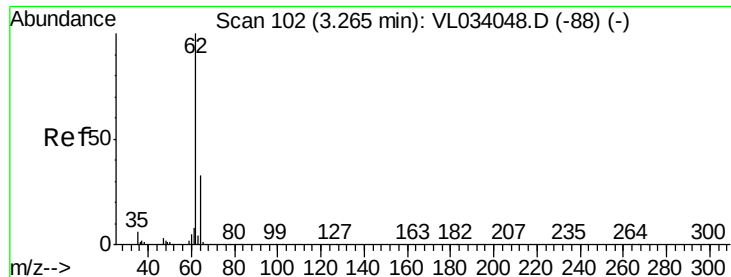
Tgt Ion: 50 Resp: 693961

Ion Ratio Lower Upper

50 100

52 31.1 26.7 40.1





#5

Vinyl Chloride

Concen: 8.313 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 62 Resp: 758081

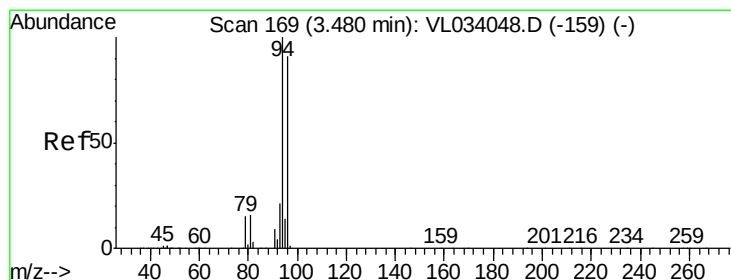
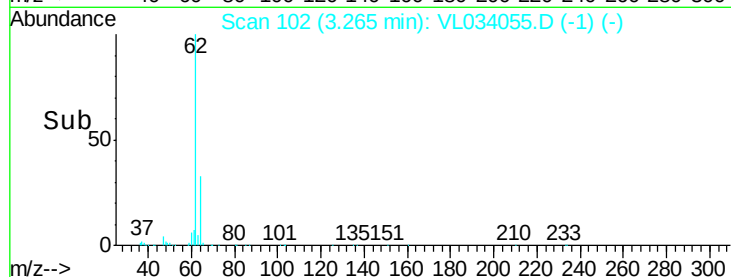
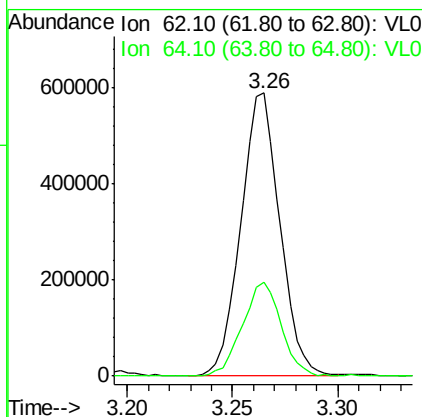
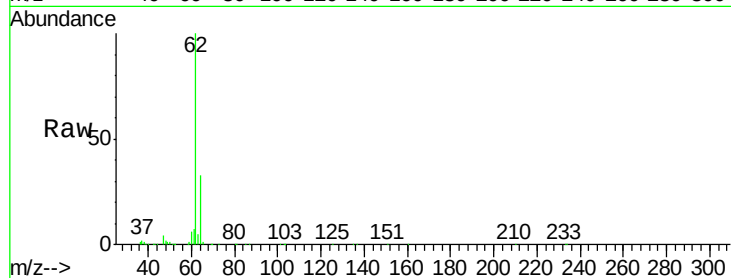
Ion Ratio Lower Upper

62 100

64 33.3 26.5 39.7

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#6

Bromomethane

Concen: 8.483 ppbv

RT: 3.48 min Scan# 170

Delta R.T. 0.00 min

Lab File: VL034055.D

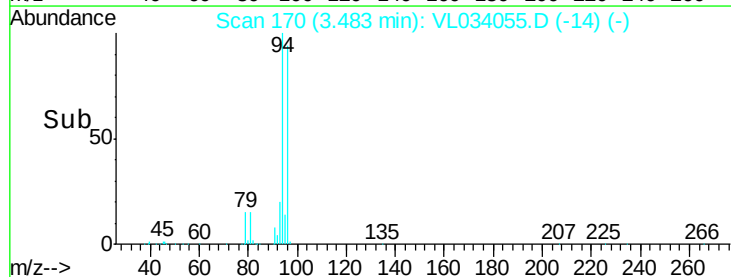
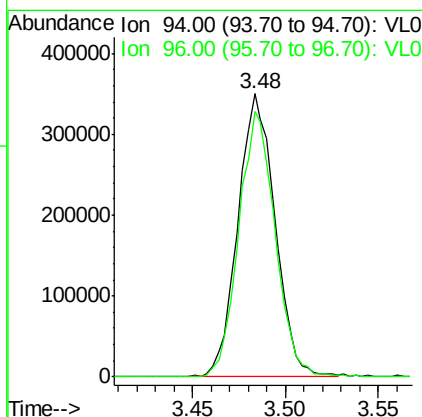
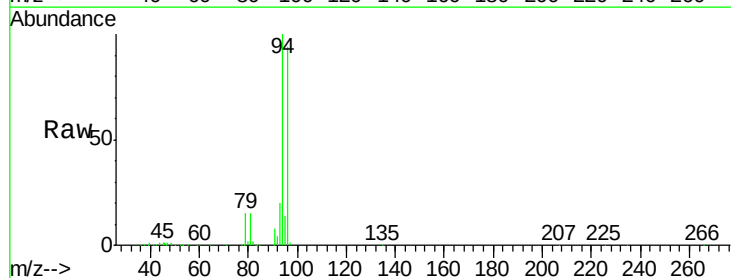
Acq: 30 Jul 2019 7:18

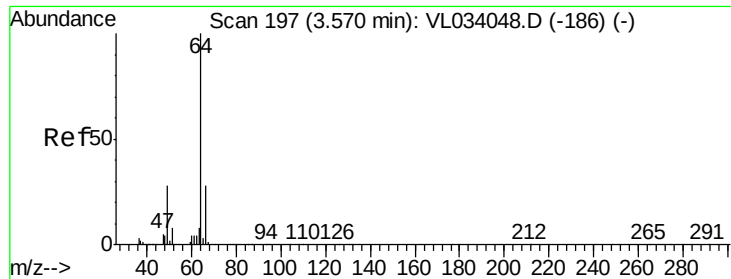
Tgt Ion: 94 Resp: 486958

Ion Ratio Lower Upper

94 100

96 93.4 72.6 108.8





#7

Chloroethane

Concen: 7.993 ppbv

RT: 3.57 min Scan# 196

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

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ClientSampleId :

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Tot Ion: 64 Resp: 295376

Ion Ratio Lower Upper

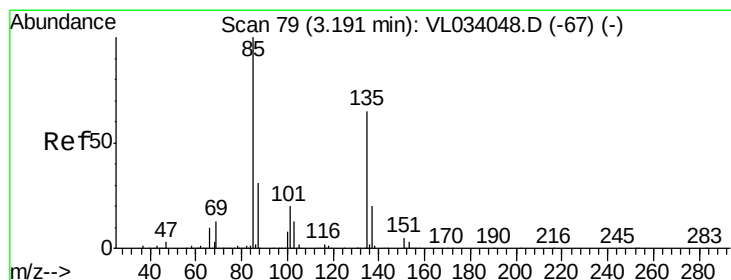
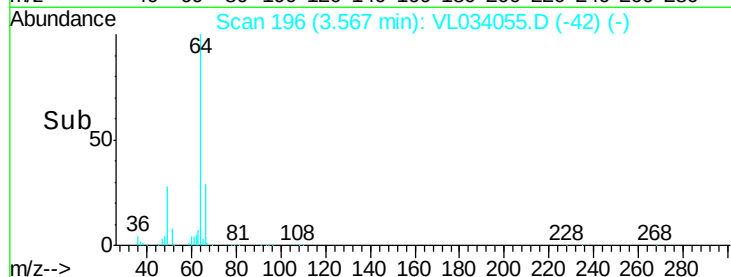
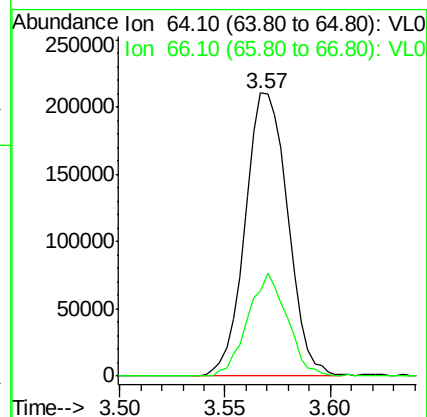
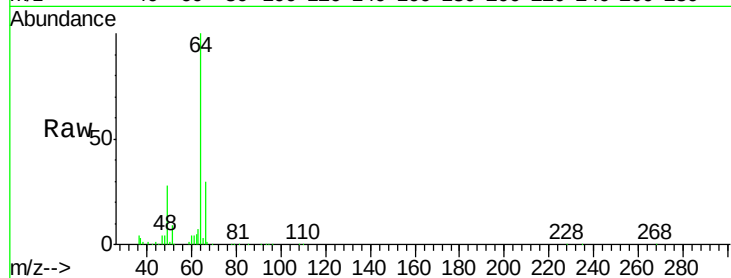
64 100

66 30.1 22.0 33.0

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#8

Dichlorotetrafluoroethane

Concen: 8.201 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034055.D

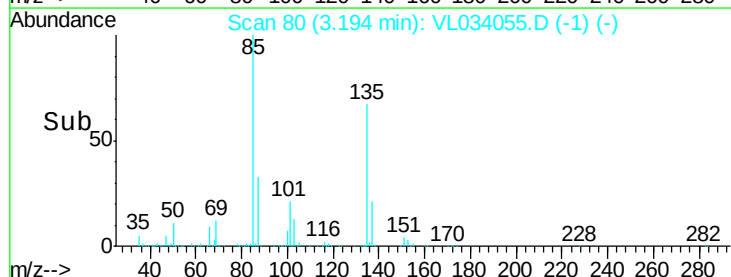
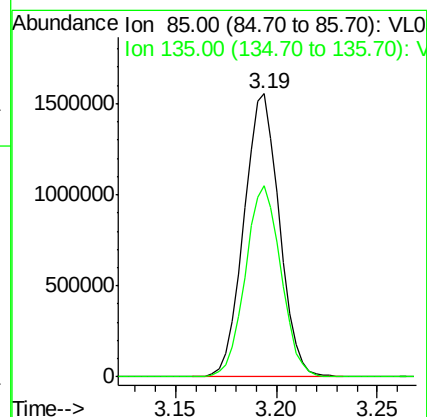
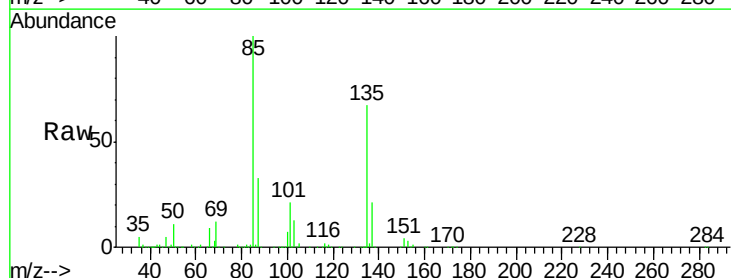
Acq: 30 Jul 2019 7:18

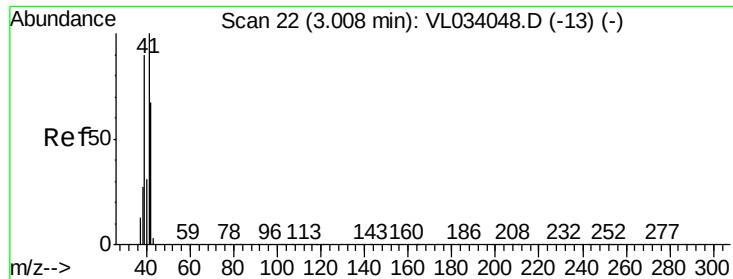
Tgt Ion: 85 Resp: 1917880

Ion Ratio Lower Upper

85 100

135 68.1 54.1 81.1





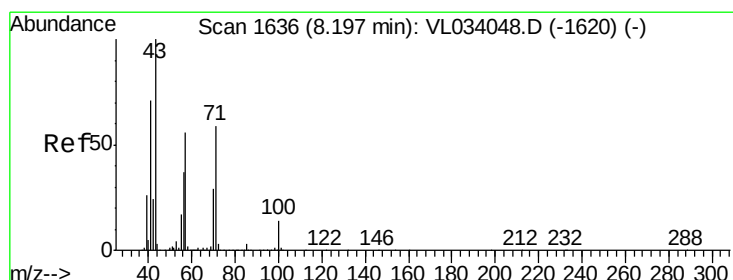
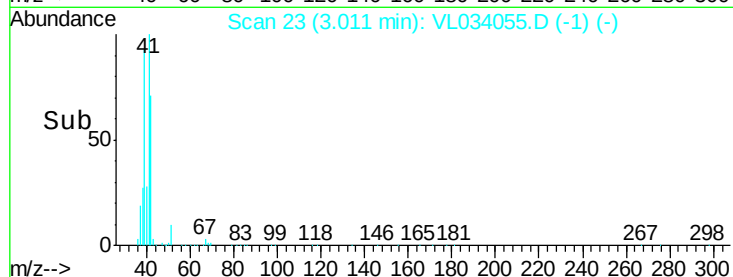
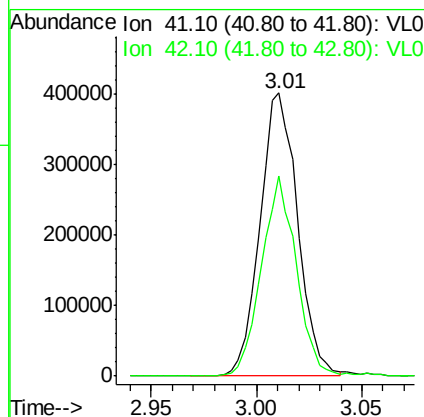
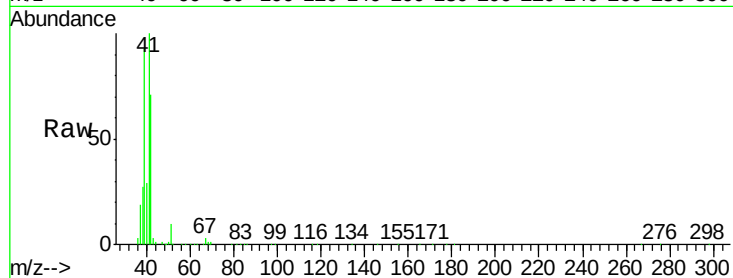
#9
 Propene
 Concen: 9.858 ppbv
 RT: 3.01 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
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 ClientSampleId :
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Tot Ion	41	Resp	499293
Ion Ratio	100	Lower	Upper
42	66.2	55.4	83.2

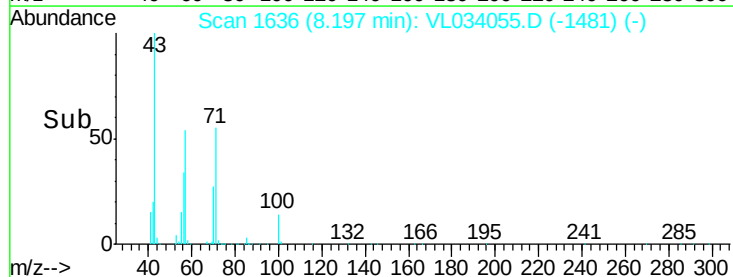
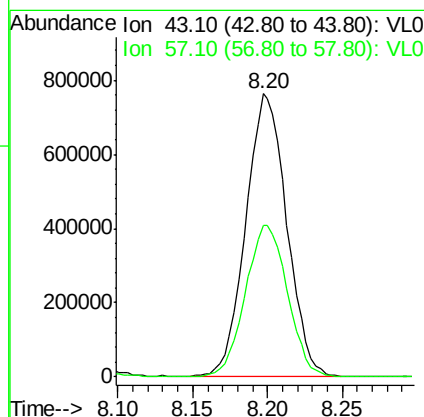
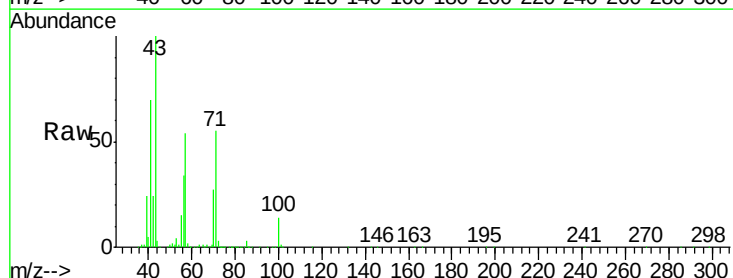
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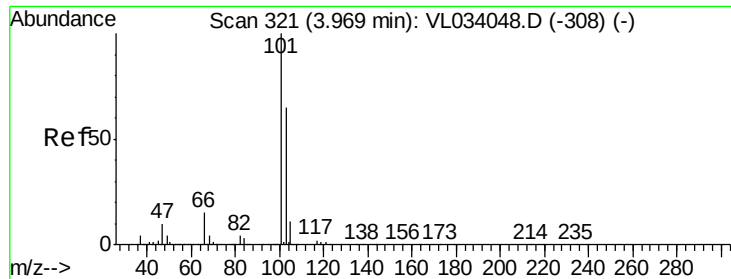
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#10
 Heptane
 Concen: 10.463 ppbv
 RT: 8.20 min Scan# 1636
 Delta R.T. -0.00 min
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Tgt Ion	43	Resp	1445335
Ion Ratio	100	Lower	Upper
57	55.5	44.8	67.2





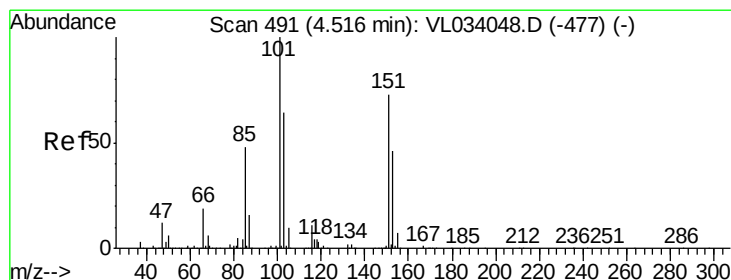
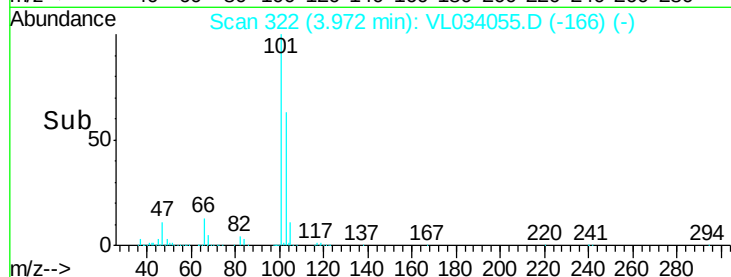
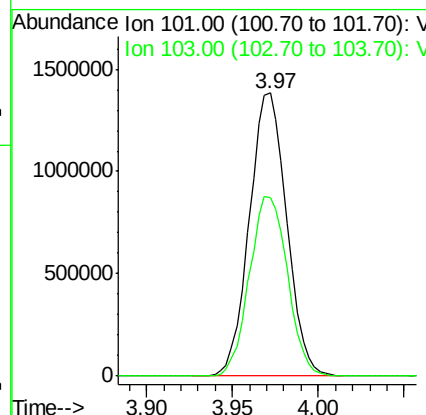
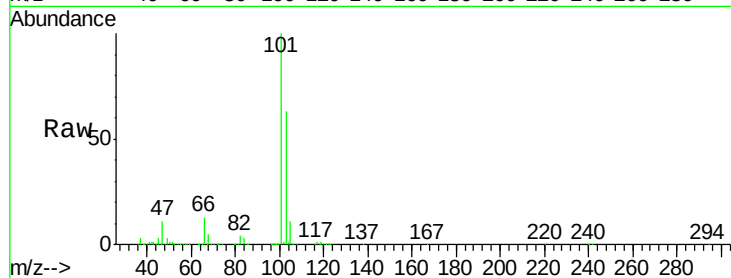
#11
 Trichlorofluoromethane
 Concen: 7.962 ppbv
 RT: 3.97 min Scan# 322
 Delta R.T. 0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion:101 Resp: 2078832
 Ion Ratio Lower Upper
 101 100
 103 63.1 52.3 78.5

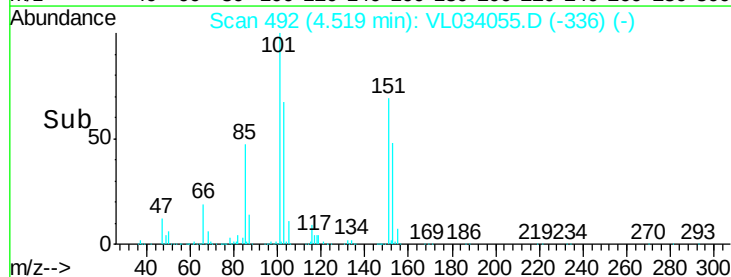
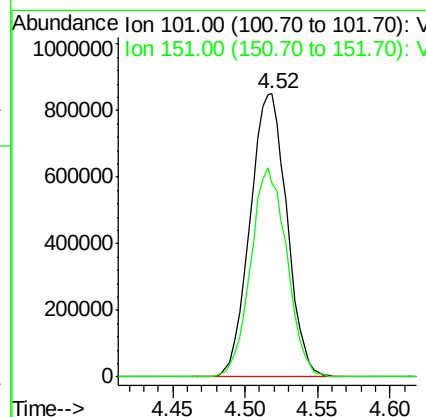
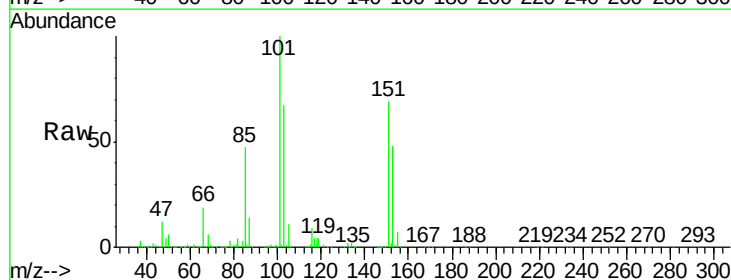
Manual Integrations
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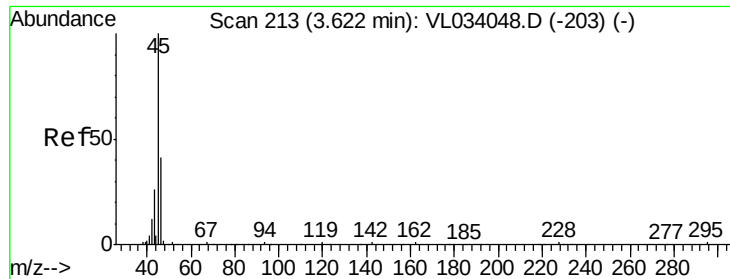
MMdadoda
 8/2/2019 9:37:41 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.552 ppbv
 RT: 4.52 min Scan# 492
 Delta R.T. 0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion:101 Resp: 1501941
 Ion Ratio Lower Upper
 101 100
 151 72.5 57.3 85.9





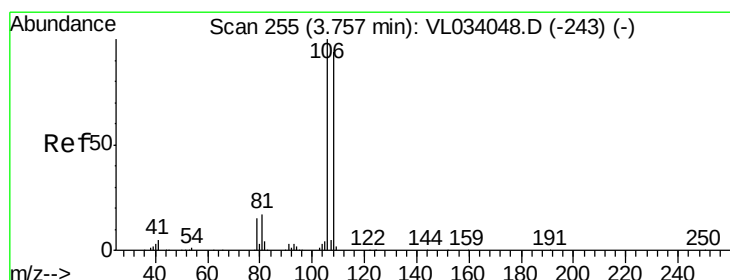
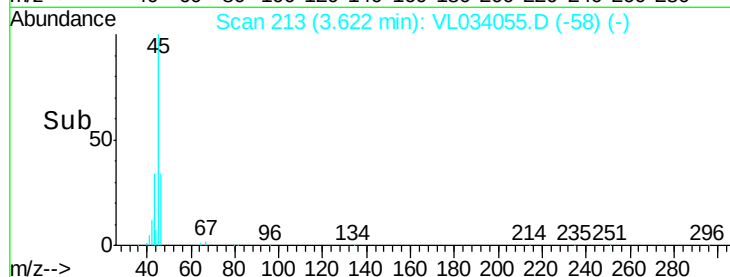
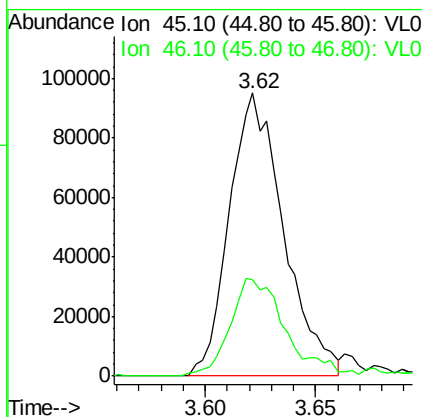
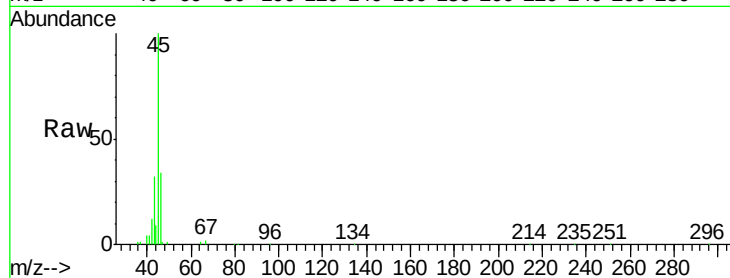
#13
Ethanol
Concen: 8.035 ppbv
RT: 3.62 min Scan# 213
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

Tot Ion	45	46	Ratio	100	37.1	Resp	161984	Lower	Upper
45	100								
46		37.1					15.6		62.2

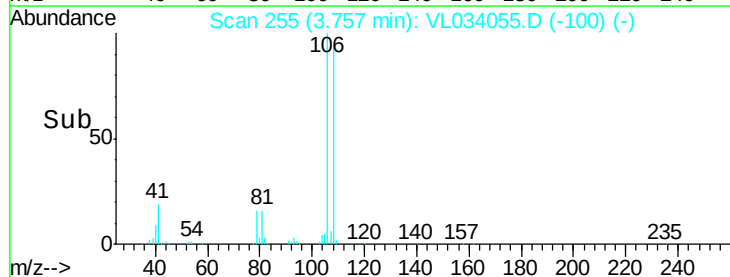
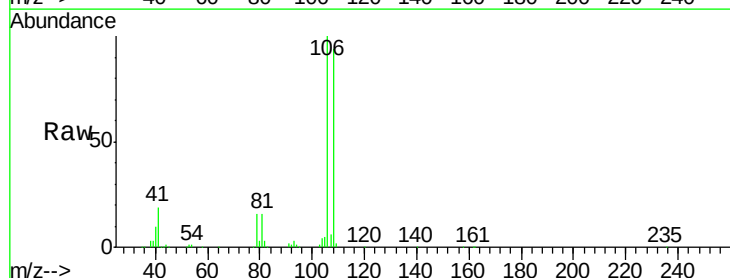
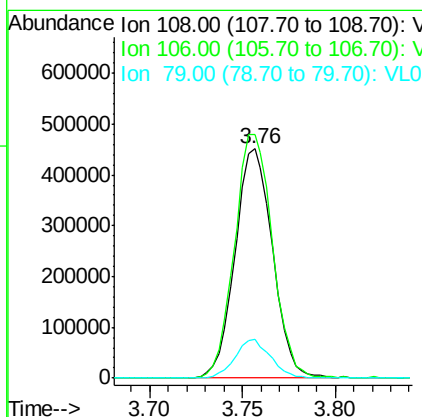
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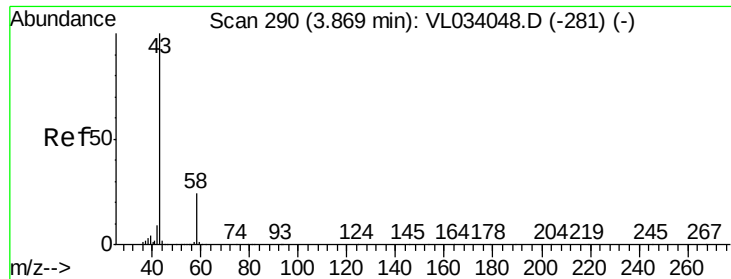
MMdadoda
8/2/2019 9:37:41 AM



#14
Bromoethene
Concen: 8.545 ppbv
RT: 3.76 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tgt Ion	108	106	79	Ratio	100	108.1	16.3	Resp	633741	Lower	Upper
108	100										
106		108.1									
79			16.3							86.2	129.2





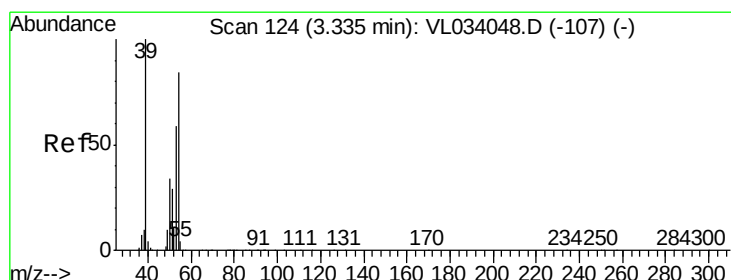
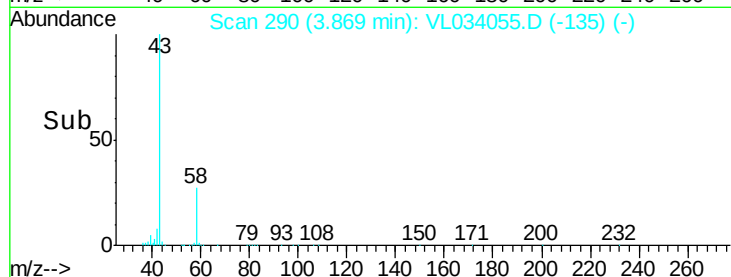
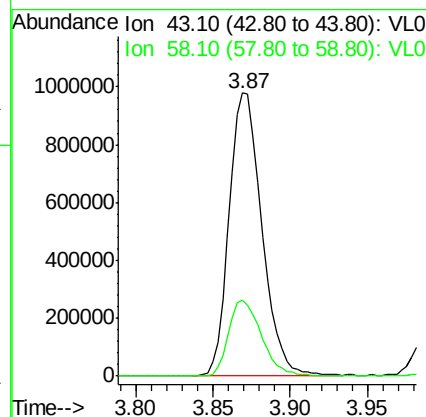
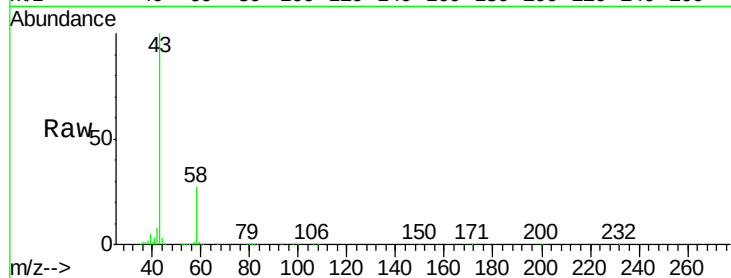
#15
Acetone
Concen: 7.733 ppbv
RT: 3.87 min Scan# 290
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

Tot Ion: 43 Resp: 1436938
Ion Ratio Lower Upper
43 100
58 26.9 21.6 32.4

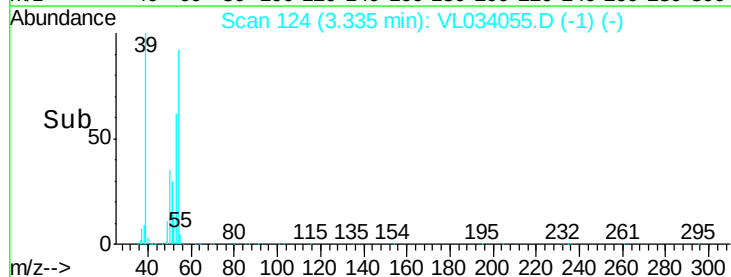
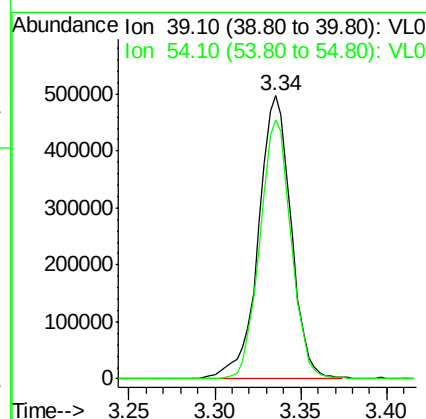
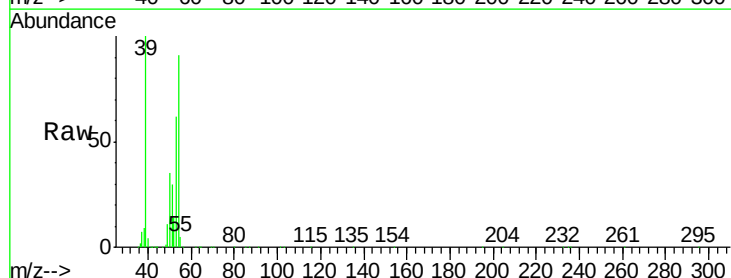
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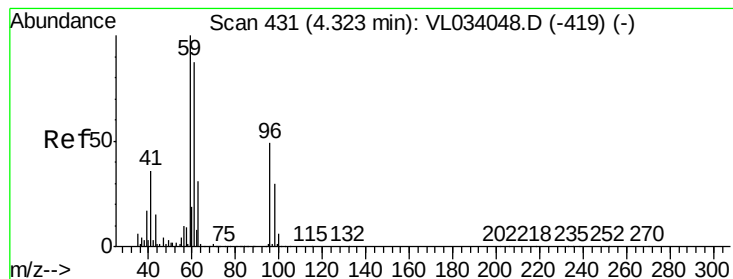
MMdadoda
8/2/2019 9:37:41 AM



#16
1,3-Butadiene
Concen: 9.041 ppbv
RT: 3.34 min Scan# 124
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tgt Ion: 39 Resp: 652406
Ion Ratio Lower Upper
39 100
54 88.0 68.9 103.3





#17

tert-Butyl alcohol

Concen: 9.568 ppbv

RT: 4.32 min Scan# 431

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 59 Resp: 1461826

Ion Ratio Lower Upper

59 100

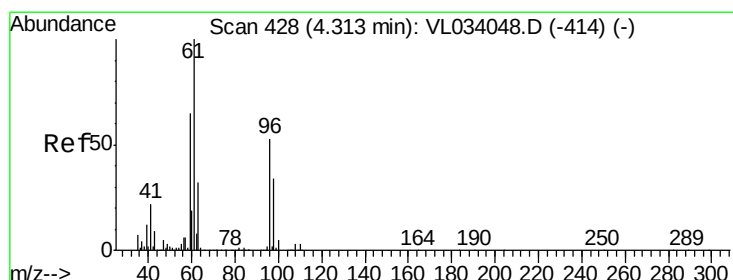
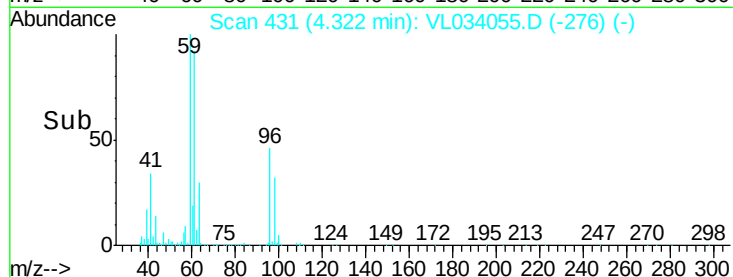
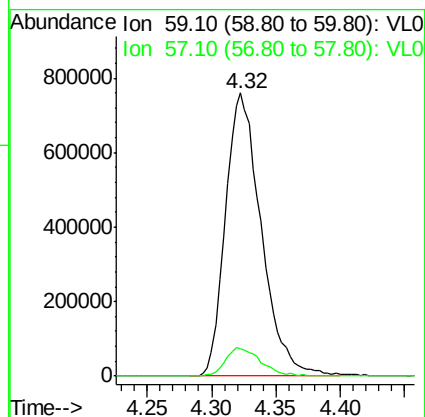
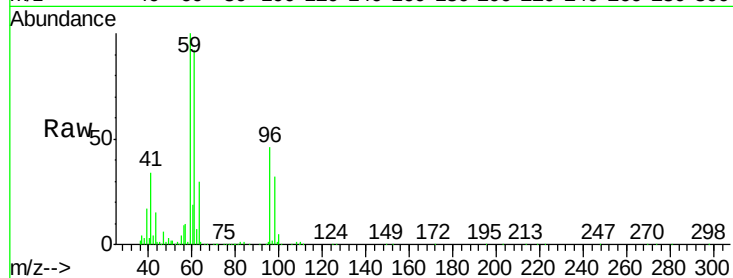
57 10.1 8.2 12.4

Manual Integrations

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#18

1,1-Dichloroethene

Concen: 8.477 ppbv

RT: 4.32 min Scan# 429

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

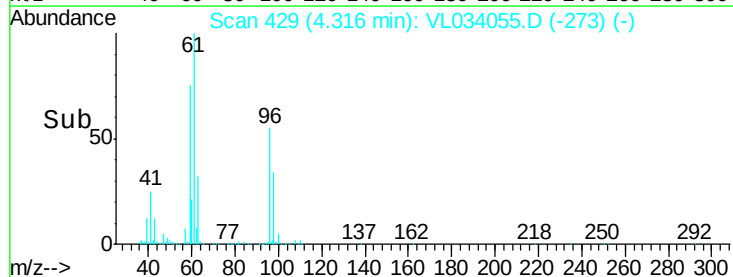
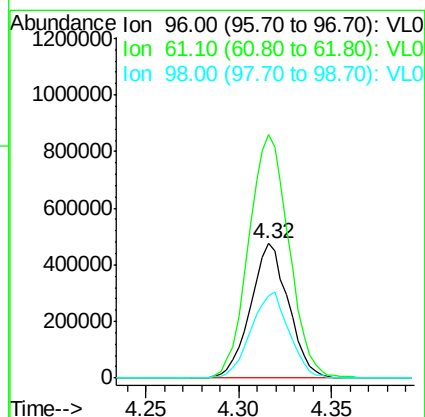
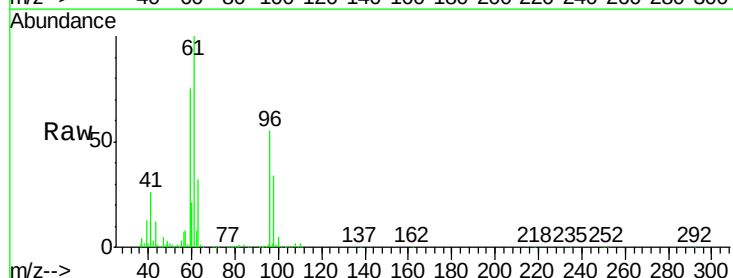
Tgt Ion: 96 Resp: 674510

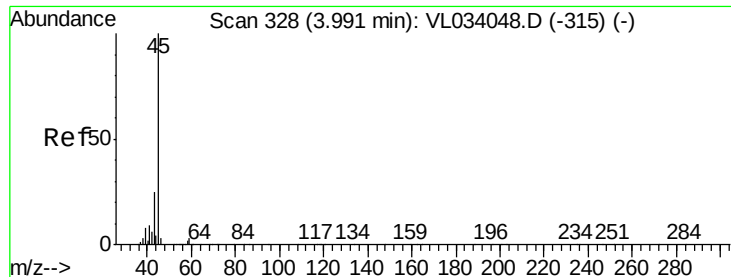
Ion Ratio Lower Upper

96 100

61 181.1 151.5 227.3

98 61.4 52.2 78.2





#19

Isopropyl Alcohol

Concen: 8.919 ppbv

RT: 3.99 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 45 Resp: 1131907

Ion Ratio Lower Upper

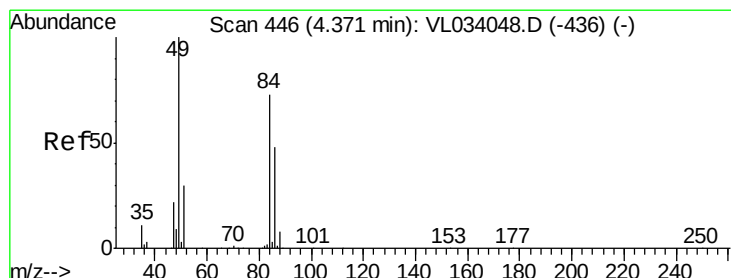
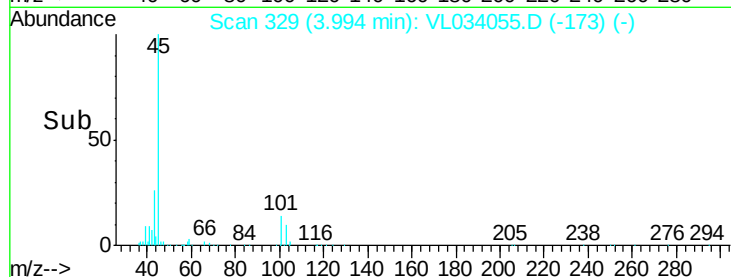
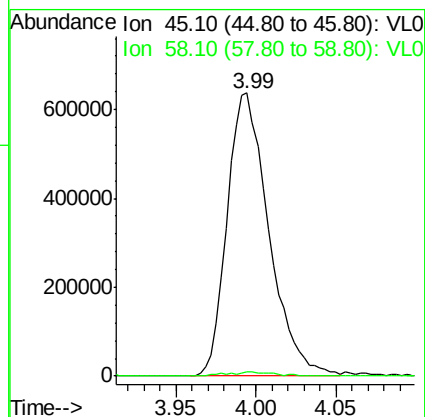
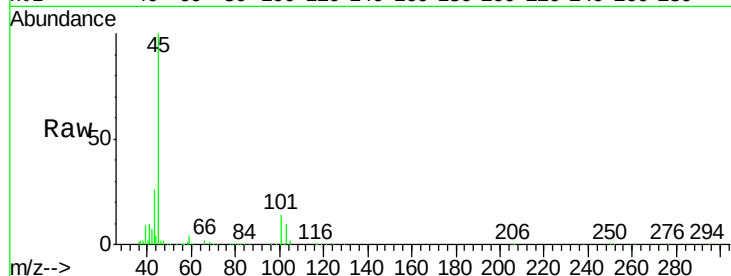
45 100

58 1.7 1.8 2.6#

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#20

Methylene Chloride

Concen: 8.456 ppbv

RT: 4.37 min Scan# 446

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Tgt Ion: 84 Resp: 600964

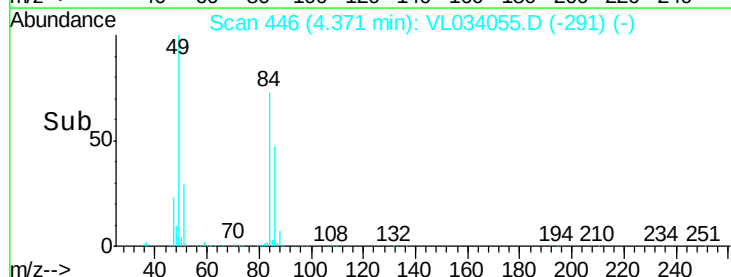
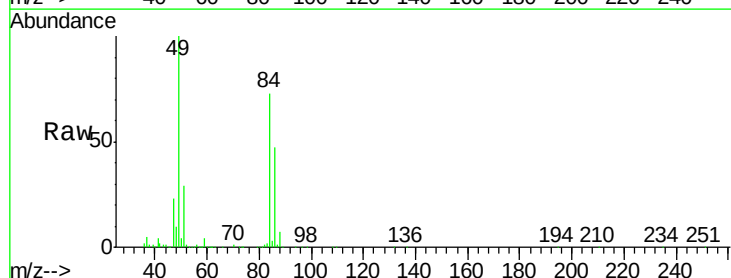
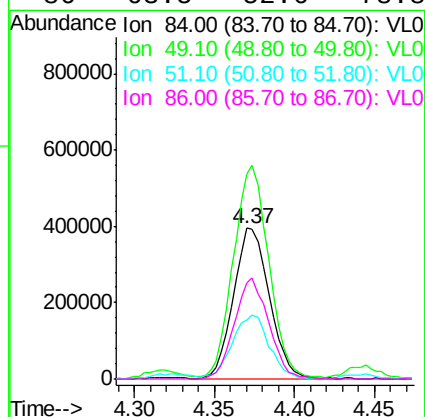
Ion Ratio Lower Upper

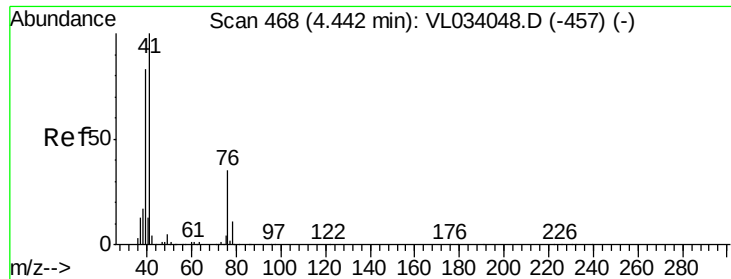
84 100

49 134.4 109.6 164.4

51 38.0 33.4 50.2

86 63.5 52.6 78.8





#21

Allvl Chloride

Concen: 8.804 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 41 Resp: 1032545

Ion Ratio Lower Upper

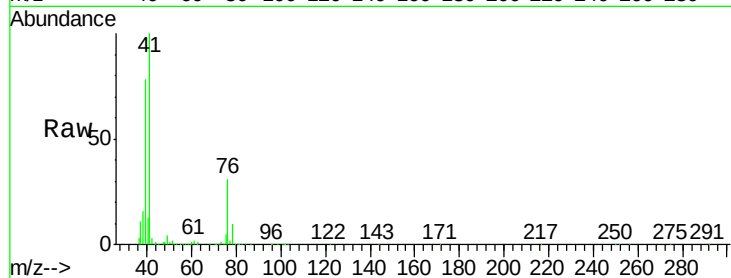
41 100

76 31.8 26.1 39.1

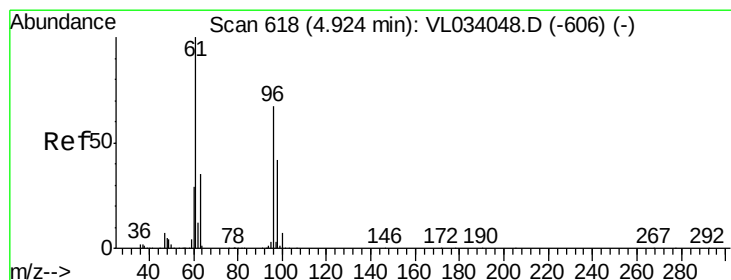
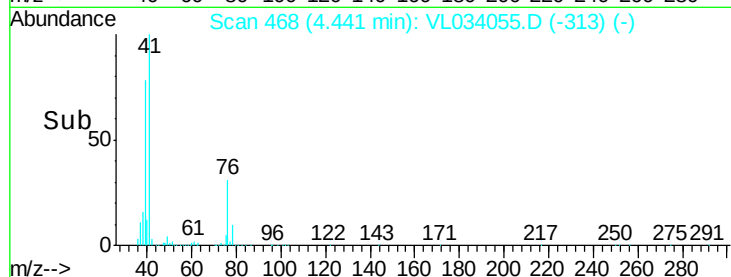
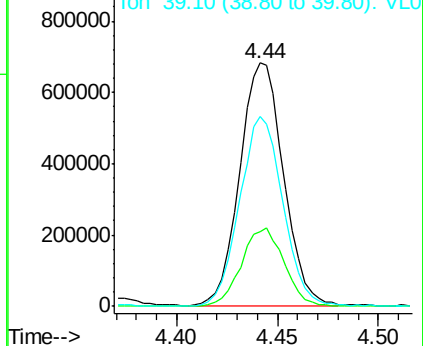
39 78.0 65.0 97.6

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



#22

trans-1,2-Dichloroethene

Concen: 7.968 ppbv

RT: 4.92 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

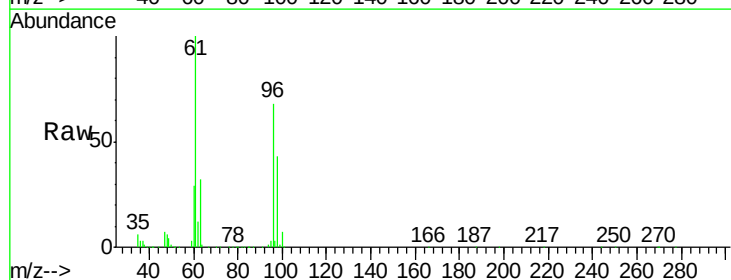
Tgt Ion: 96 Resp: 656793

Ion Ratio Lower Upper

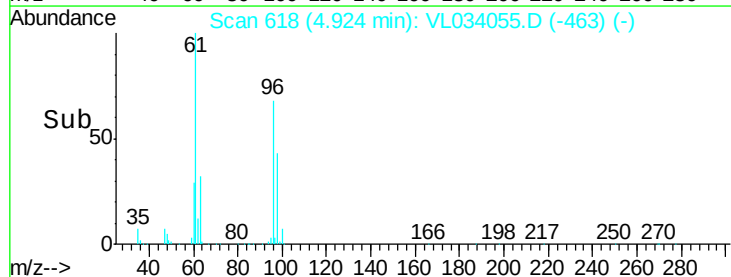
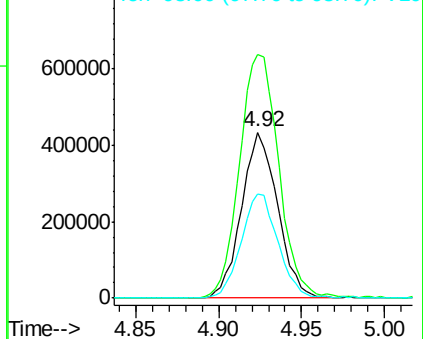
96 100

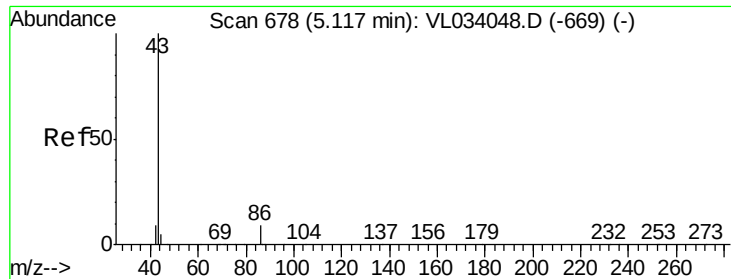
61 146.7 118.6 177.8

98 62.8 49.7 74.5



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





#23

Vinyl Acetate

Concen: 9.510 ppbv

RT: 5.12 min Scan# 679

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 43 Resp: 1892471

Ion Ratio Lower Upper

43 100

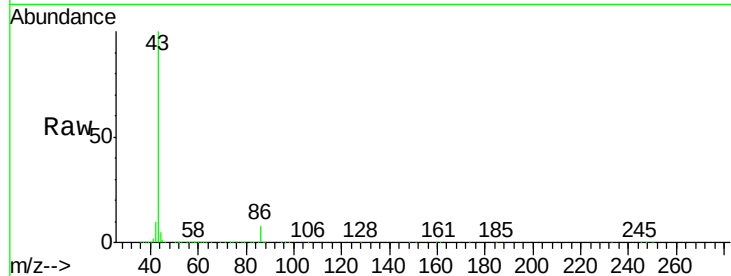
86 8.1 6.5 9.7

42 9.6 8.3 12.5

44 4.8 4.0 6.0

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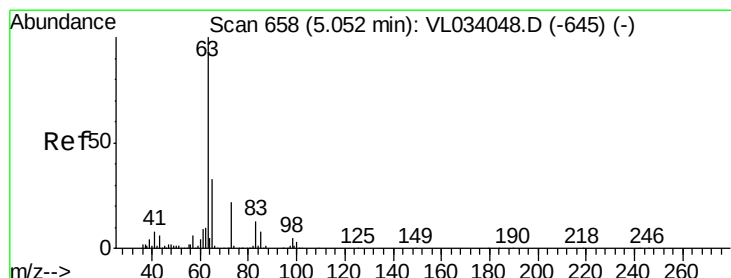
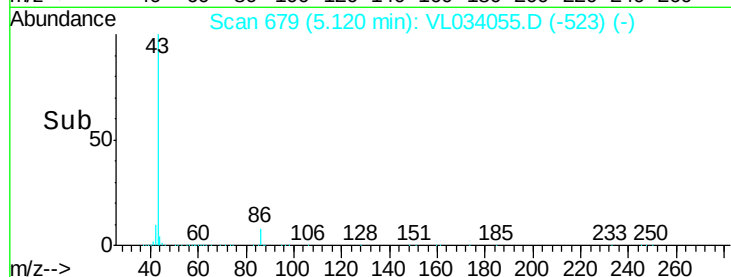
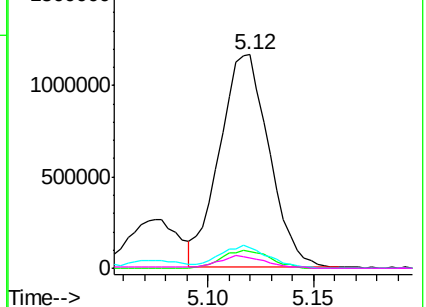


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.476 ppbv

RT: 5.05 min Scan# 658

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

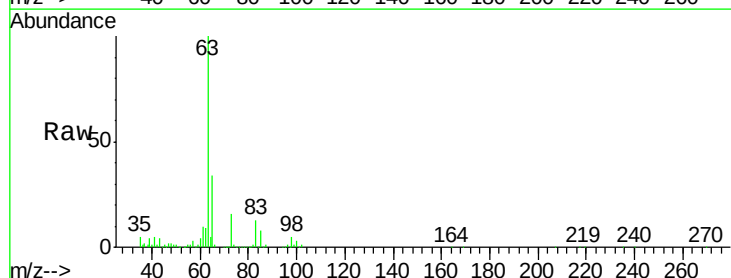
Tgt Ion: 63 Resp: 1498346

Ion Ratio Lower Upper

63 100

98 4.5 2.4 7.2

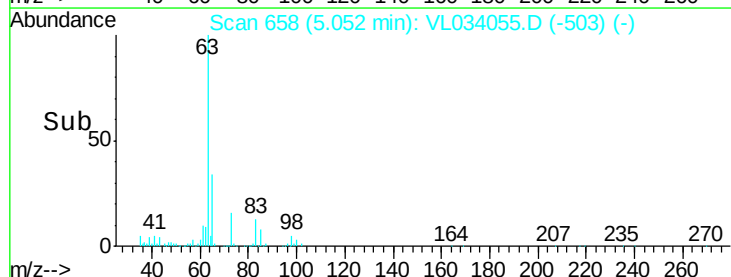
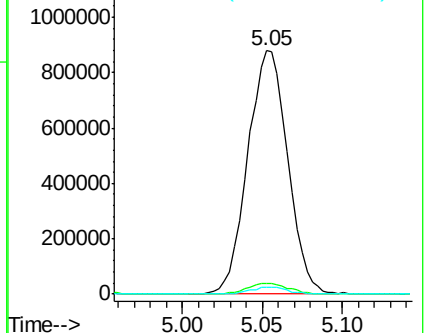
100 2.6 1.3 3.9

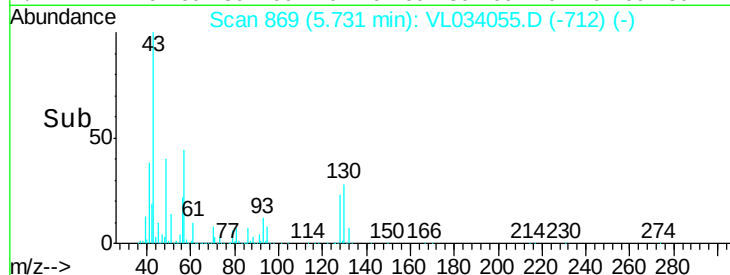
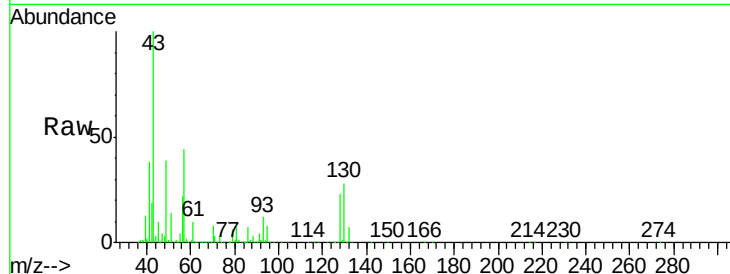
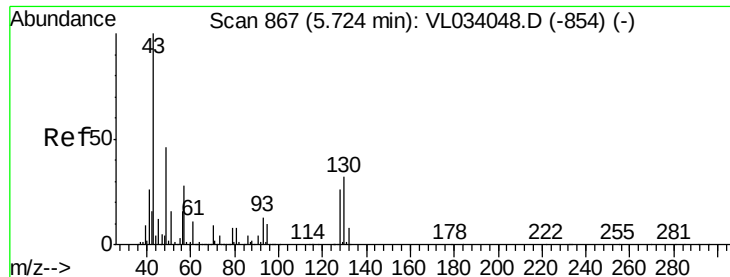


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





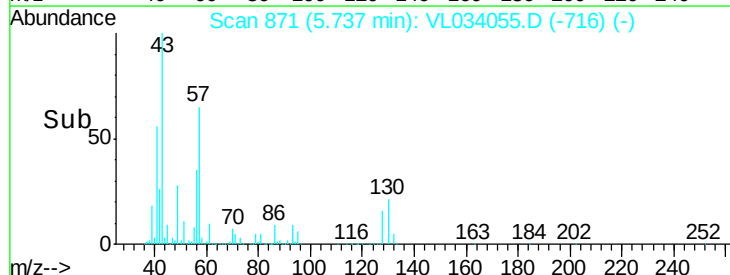
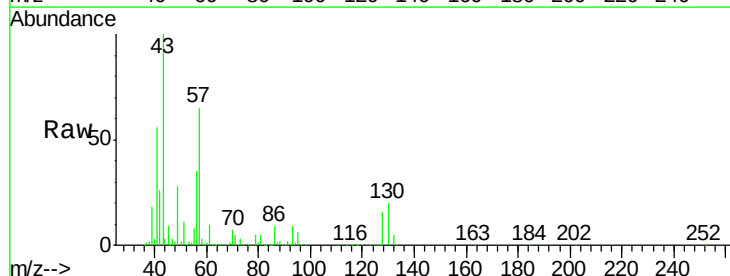
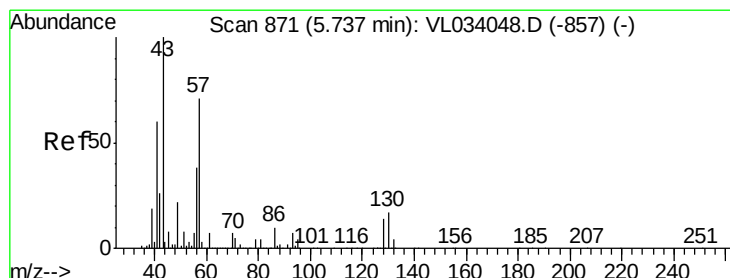
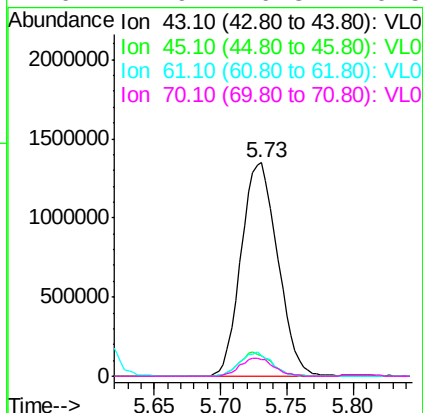
#25
Ethyl Acetate
Concen: 9.378 ppbv
RT: 5.73 min Scan# 869
Delta R.T. 0.01 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tot Ion	43	Resp	2590506
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.1	12.1
61	9.8	8.1	12.1
70	7.9	6.3	9.5

Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

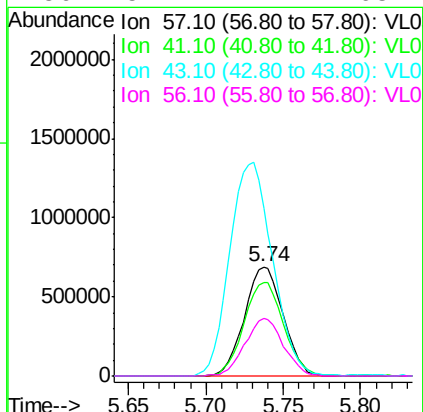
Manual Integrations
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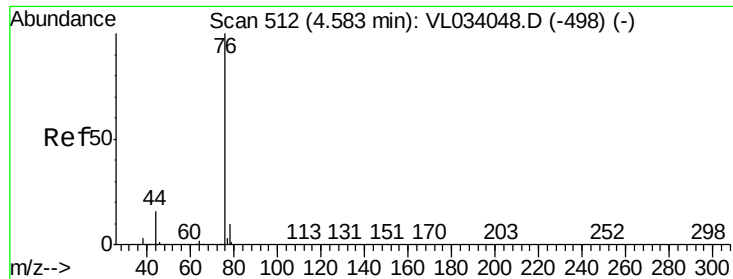
MMdadoda
8/2/2019 9:37:41 AM



#26
Hexane
Concen: 9.596 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tgt Ion	57	Resp	1199051
Ion	Ratio	Lower	Upper
57	100		
41	88.4	69.0	103.6
43	217.5	176.6	264.8
56	52.7	42.2	63.4





#27

Carbon Disulfide

Concen: 8.977 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 76 Resp: 1746661

Ion Ratio Lower Upper

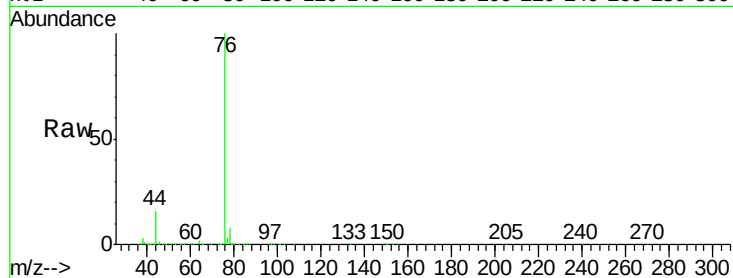
76 100

44 16.3 13.0 19.4

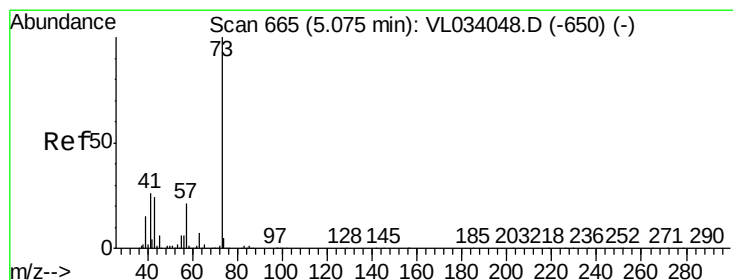
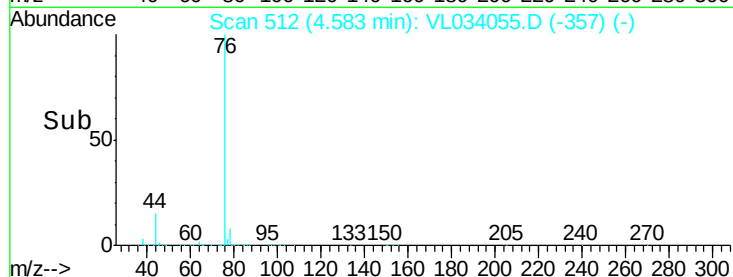
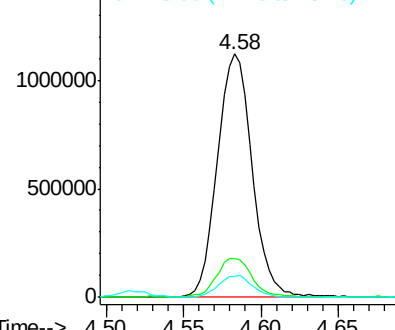
78 8.8 7.7 11.5

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MMdadoda
8/2/2019 9:37:41 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.103 ppbv

RT: 5.07 min Scan# 665

Delta R.T. -0.00 min

Lab File: VL034055.D

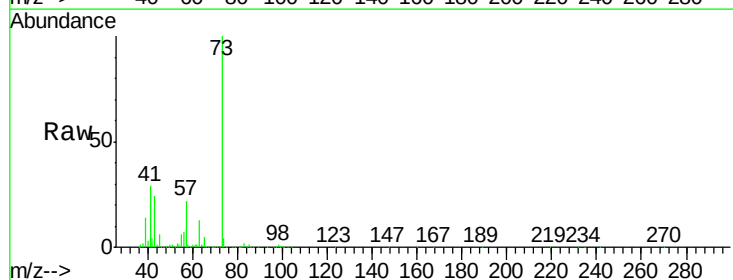
Acq: 30 Jul 2019 7:18

Tgt Ion: 73 Resp: 1935795

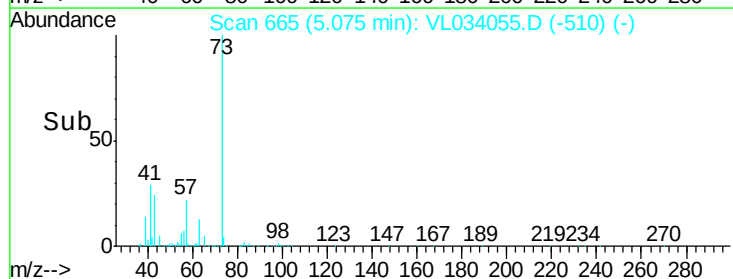
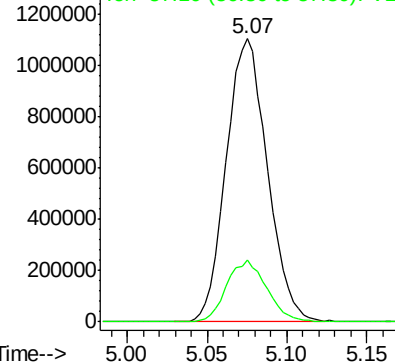
Ion Ratio Lower Upper

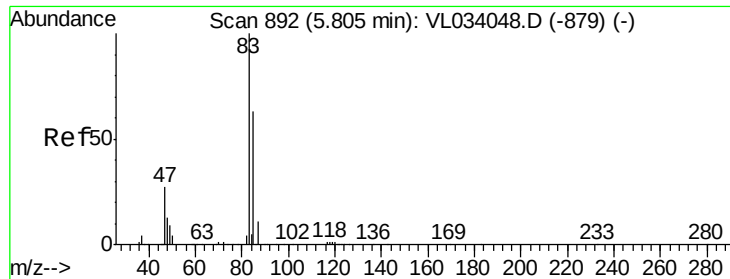
73 100

57 21.5 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





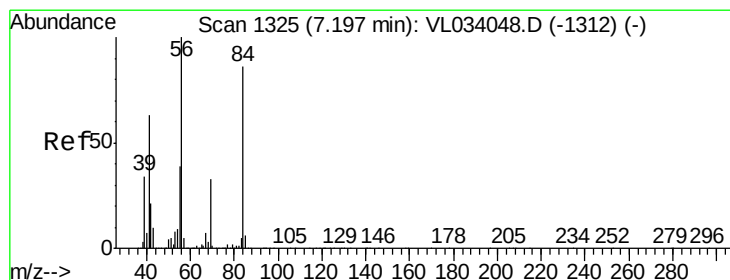
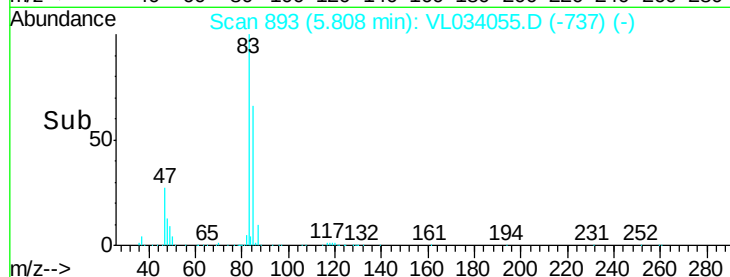
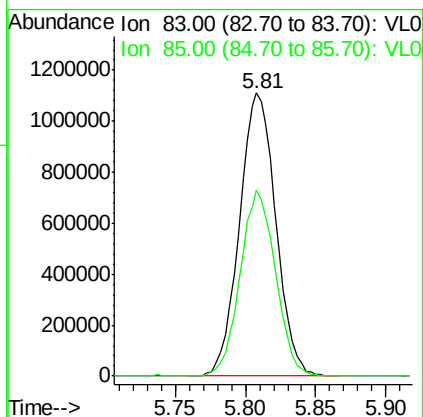
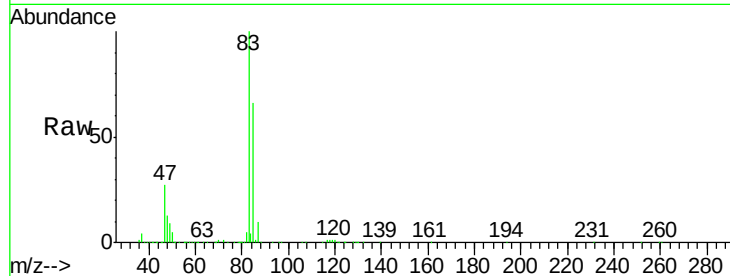
#29
Chloroform
Concen: 8.782 ppbv
RT: 5.81 min Scan# 893
Delta R.T. 0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

Tot Ion: 83 Resp: 2004204
Ion Ratio Lower Upper
83 100
85 65.5 50.2 75.4

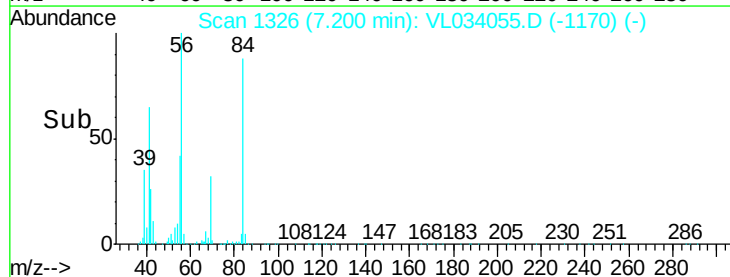
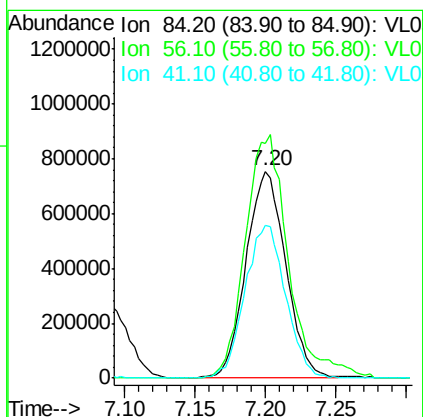
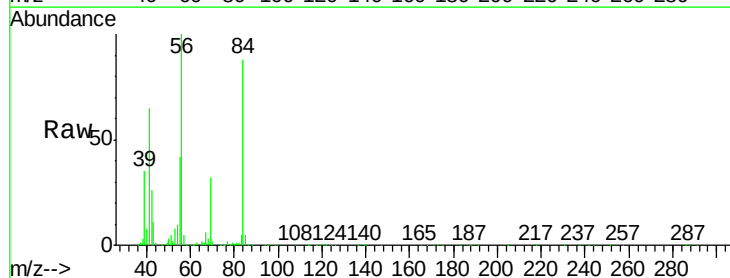
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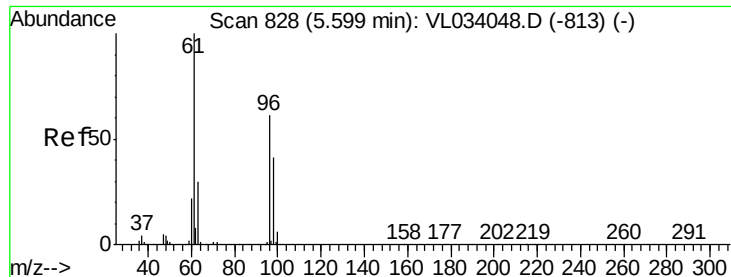
MMdadoda
8/2/2019 9:37:41 AM



#30
Cyclohexane
Concen: 11.733 ppbv
RT: 7.20 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tgt Ion: 84 Resp: 1489523
Ion Ratio Lower Upper
84 100
56 128.2 101.7 152.5
41 75.7 59.4 89.0





#31

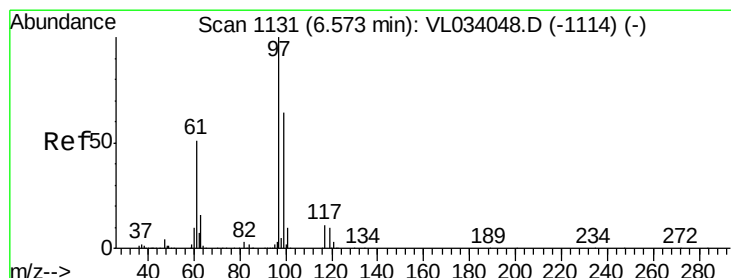
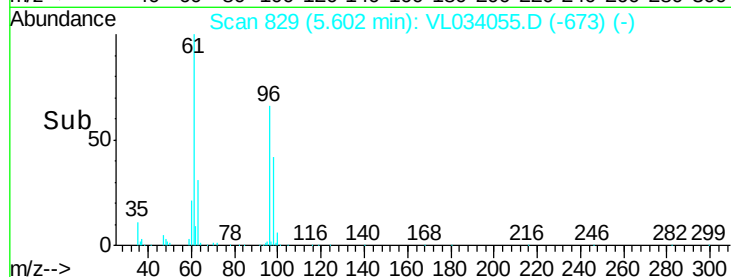
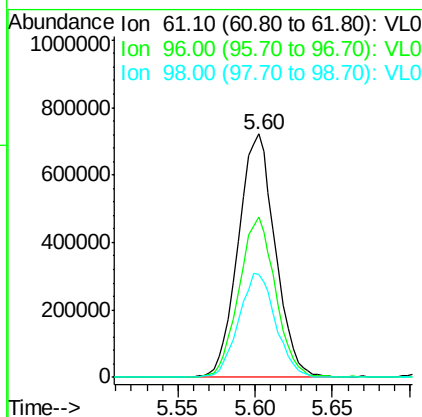
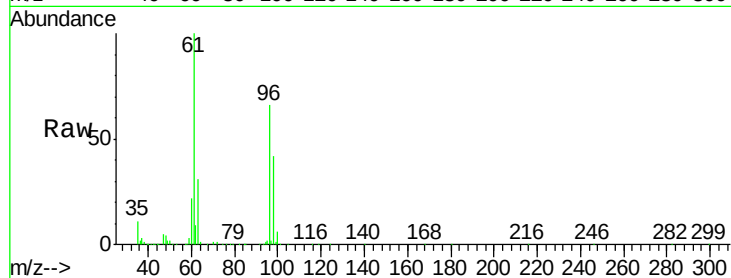
cis-1,2-Dichloroethene
 Concen: 9.858 ppbv
 RT: 5.60 min Scan# 829
 Delta R.T. 0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.6	49.1	73.7
98	42.5	32.5	48.7

Manual Integrations
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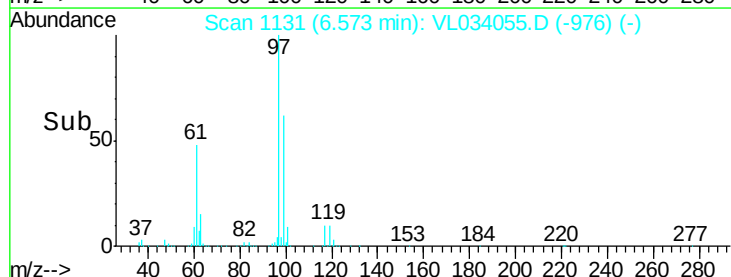
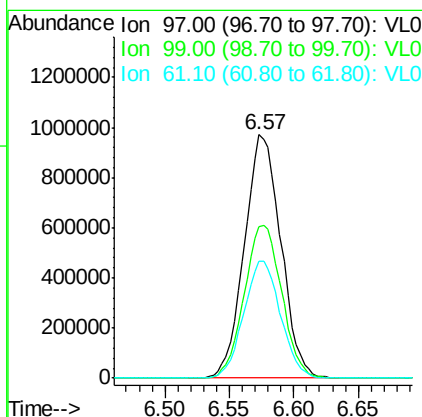
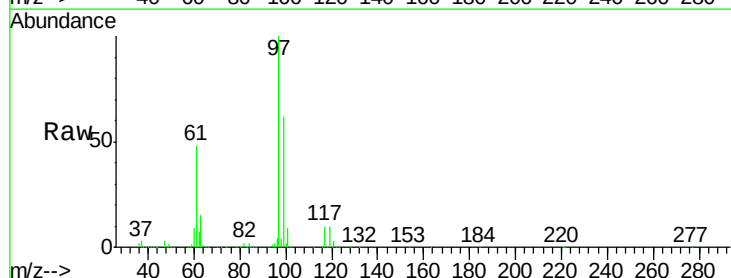
MMdadoda
 8/2/2019 9:37:41 AM

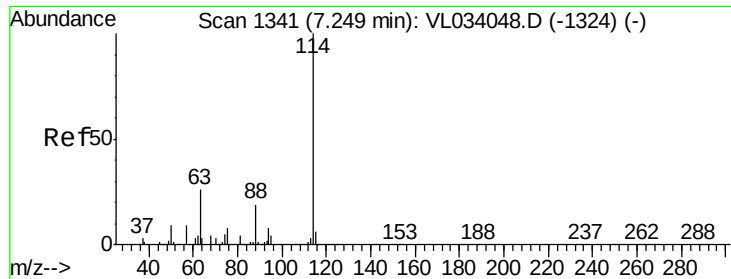


#32

1,1,1-Trichloroethane
 Concen: 8.003 ppbv
 RT: 6.57 min Scan# 1131
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.0	76.6
61	48.6	39.5	59.3





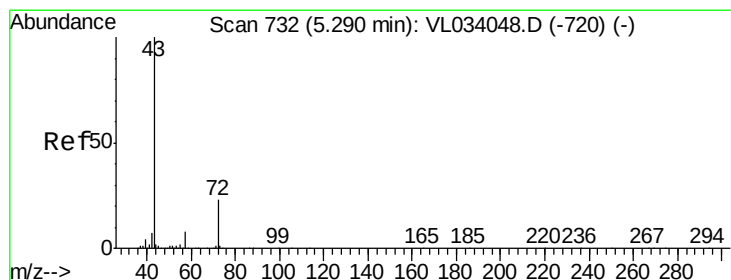
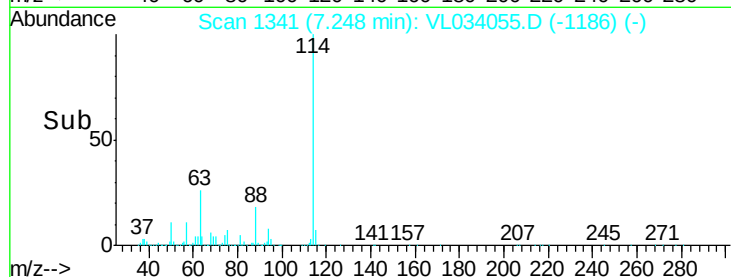
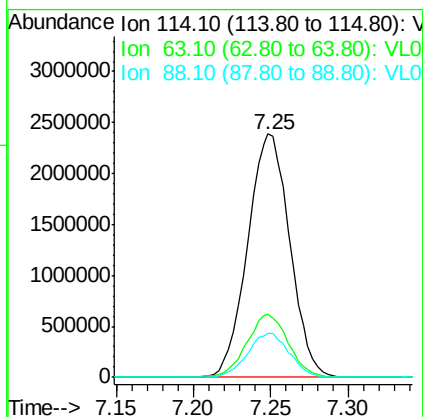
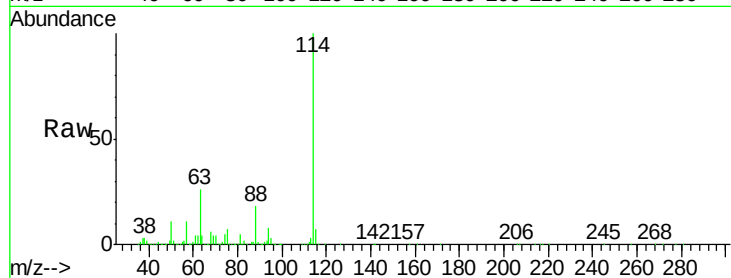
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion:114 Resp: 4516542
 Ion Ratio Lower Upper
 114 100
 63 25.9 21.0 31.6
 88 18.2 14.7 22.1

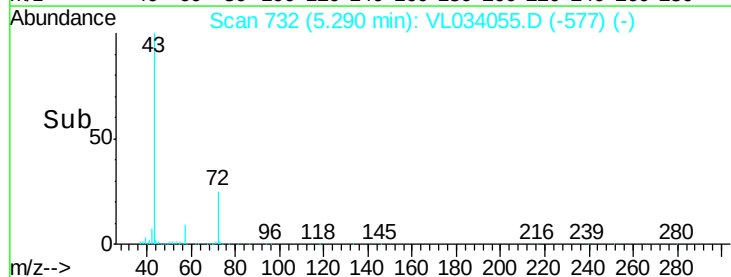
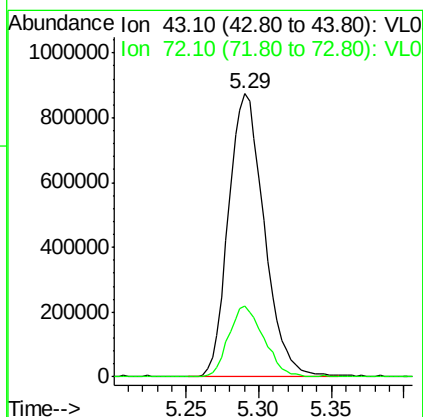
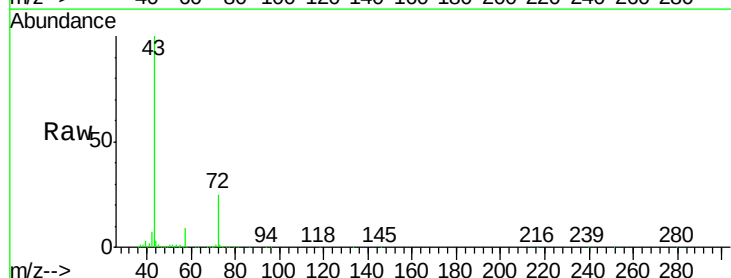
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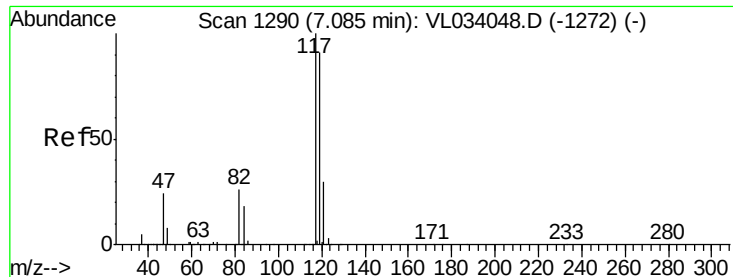
MMdadoda
 8/2/2019 9:37:41 AM



#34
 2-Butanone
 Concen: 8.001 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion: 43 Resp: 1487164
 Ion Ratio Lower Upper
 43 100
 72 24.9 20.2 30.4





#35

Carbon Tetrachloride

Concen: 9.684 ppbv

RT: 7.09 min Scan# 1292

Delta R.T. 0.01 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 117 Resp: 3086691

Ion Ratio Lower Upper

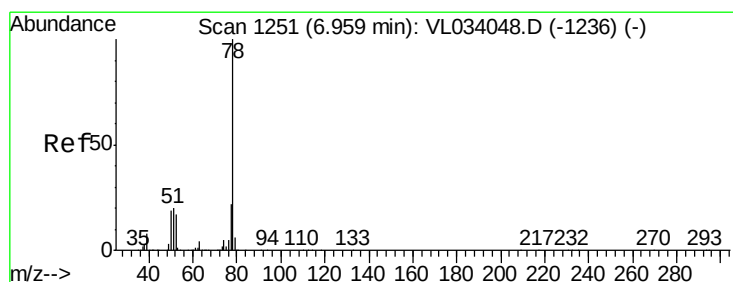
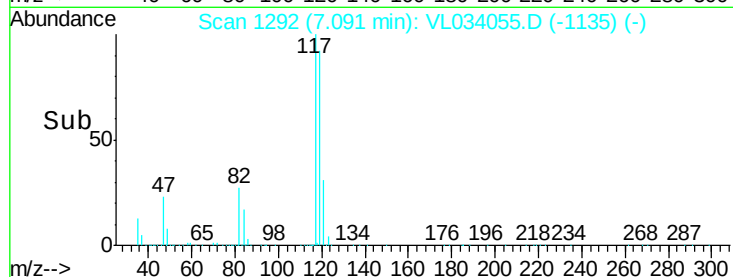
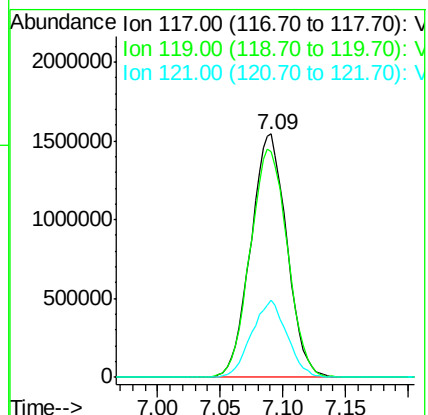
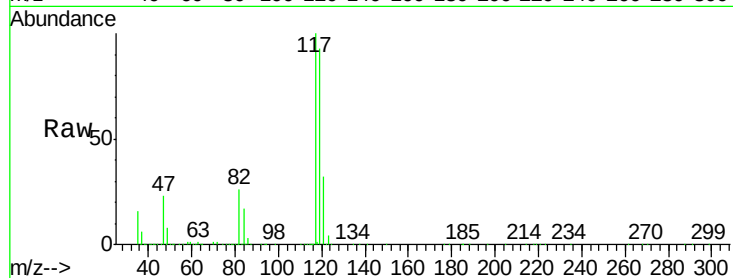
117 100

119 92.7 73.2 109.8

121 31.5 24.0 36.0

Manual Integrations
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MMdadoda
8/2/2019 9:37:41 AM



#36

Benzene

Concen: 11.751 ppbv

RT: 6.96 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

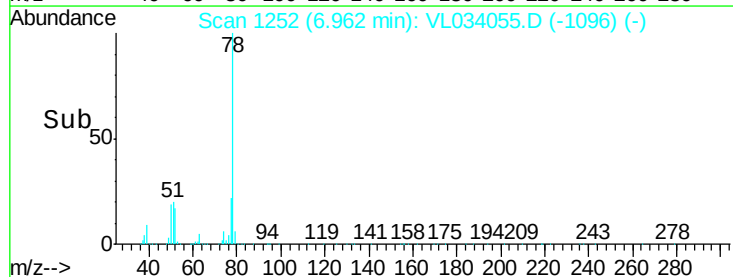
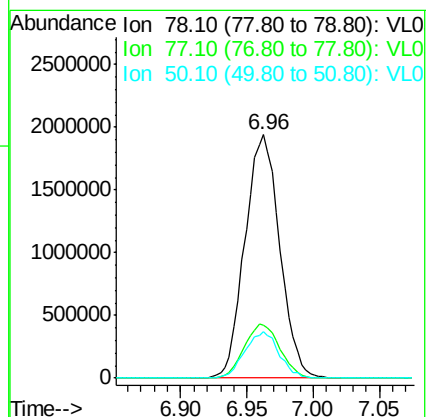
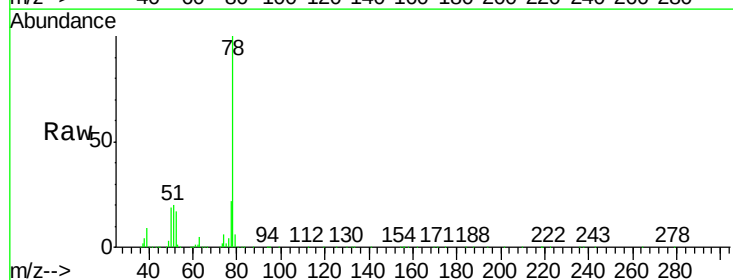
Tgt Ion: 78 Resp: 3533147

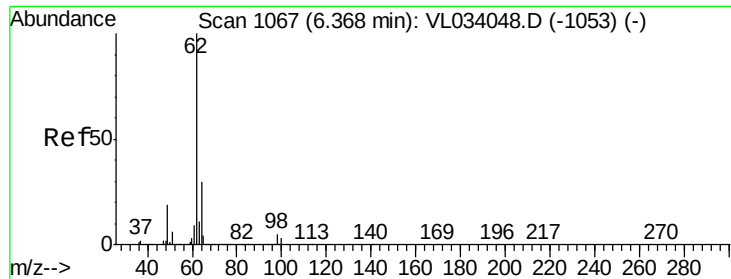
Ion Ratio Lower Upper

78 100

77 21.5 17.9 26.9

50 19.0 14.9 22.3





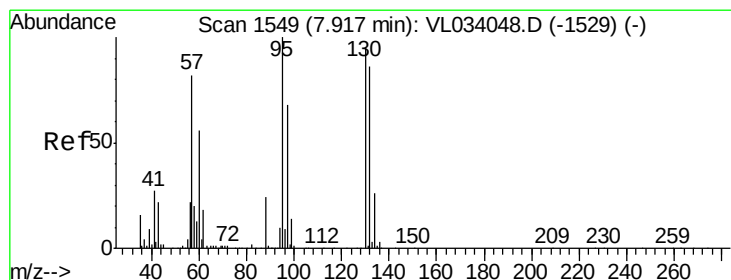
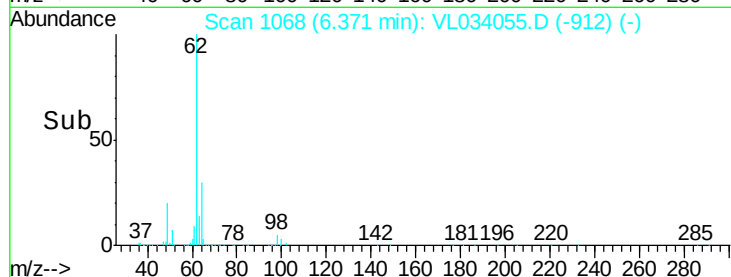
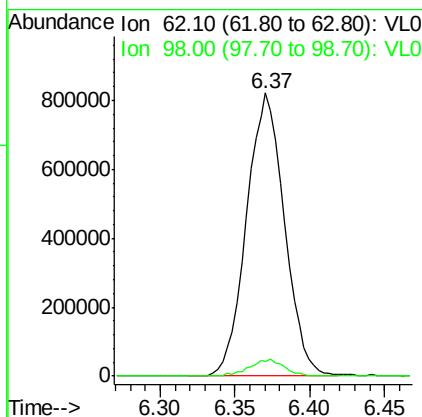
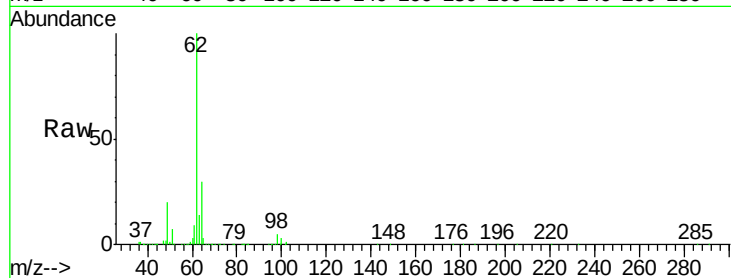
#37
 1,2-Dichloroethane
 Concen: 7.008 ppbv
 RT: 6.37 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion: 62 Resp: 1447937
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.2 6.2

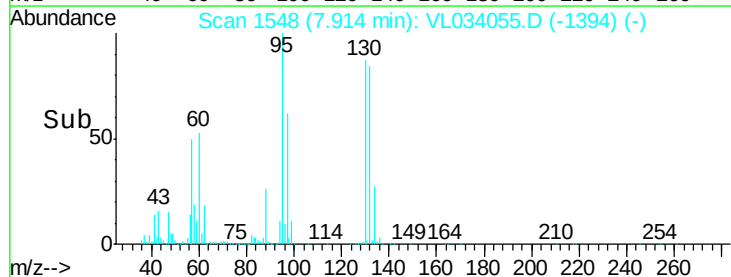
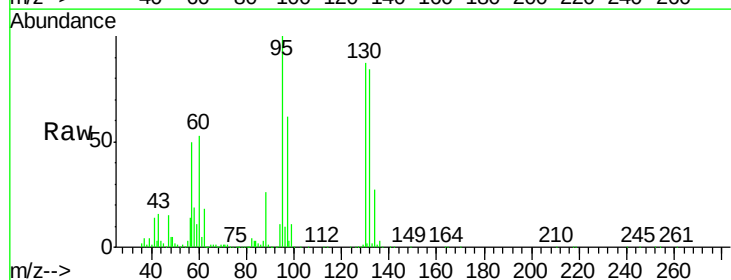
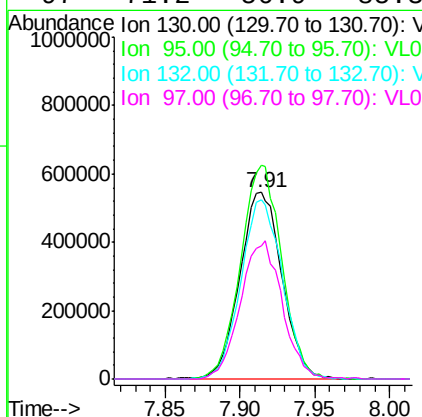
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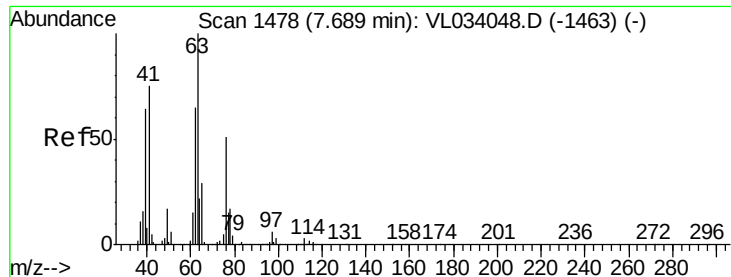
MMdadoda
 8/2/2019 9:37:41 AM



#38
 Trichloroethene
 Concen: 8.477 ppbv
 RT: 7.91 min Scan# 1548
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion: 130 Resp: 1068126
 Ion Ratio Lower Upper
 130 100
 95 114.7 84.1 126.1
 132 96.4 72.7 109.1
 97 71.2 56.9 85.3





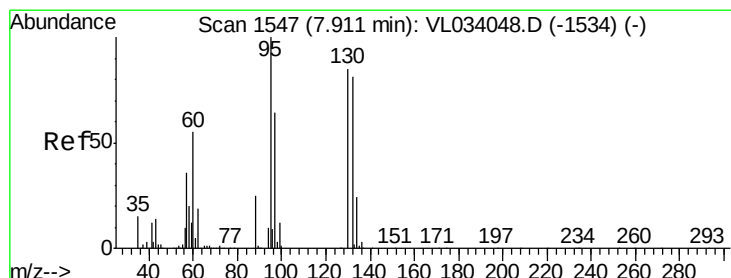
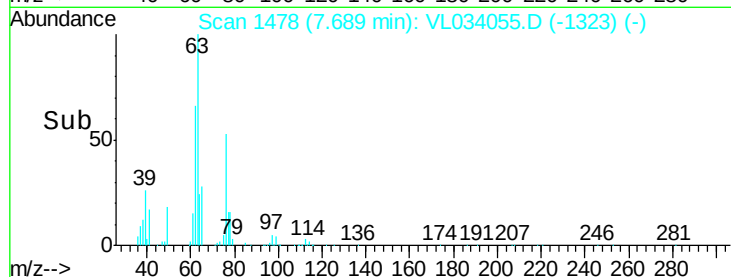
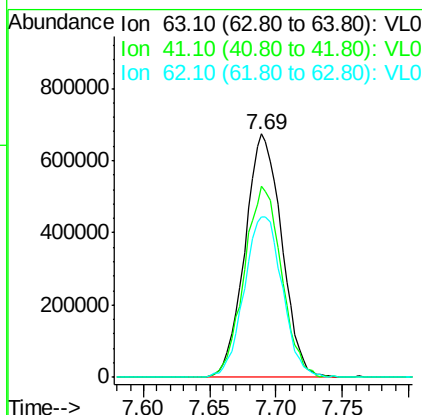
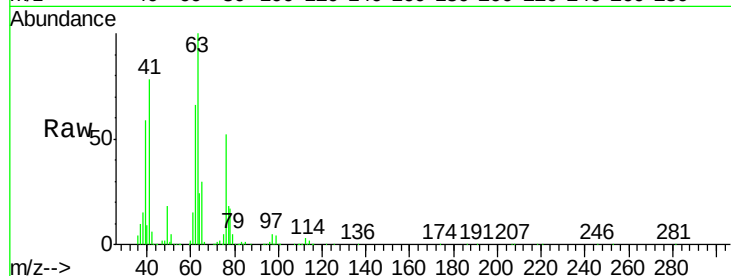
#39
 1,2-Dichloropropane
 Concen: 10.682 ppbv
 RT: 7.69 min Scan# 1478
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.2	59.8	89.8
62	65.8	52.2	78.2

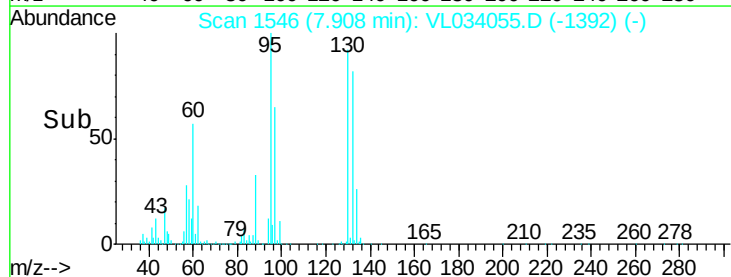
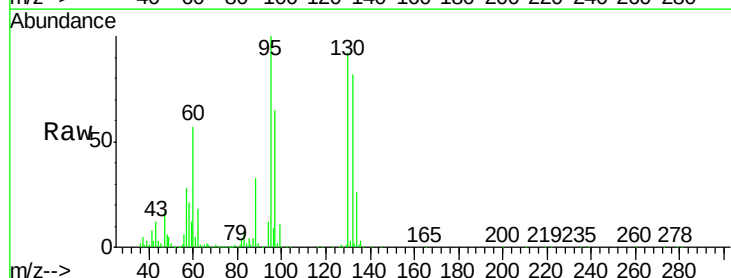
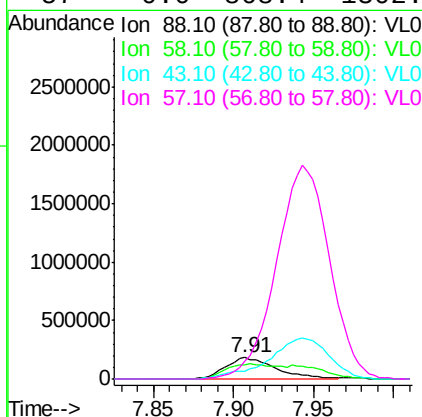
Manual Integrations
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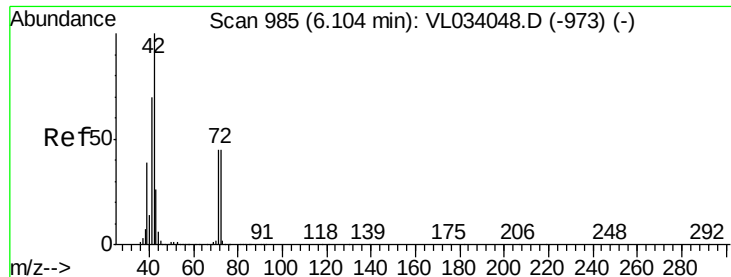
MMDadoda
 8/2/2019 9:37:41 AM



#40
 1,4-Dioxane
 Concen: 8.168 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion	Ratio	Lower	Upper
88	100		
58	121.6	99.6	149.4
43	0.0	189.2	283.8#
57	0.0	868.4	1302.6#





#41

Tetrahydrofuran

Concen: 8.944 ppbv

RT: 6.10 min Scan# 985

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

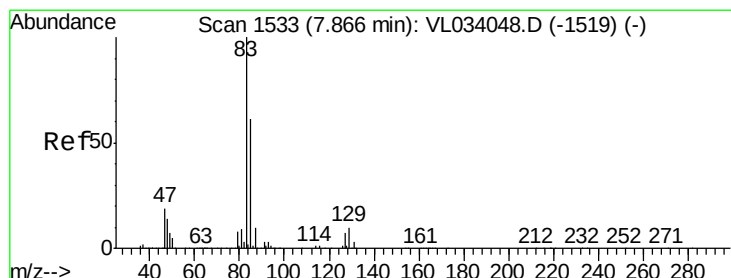
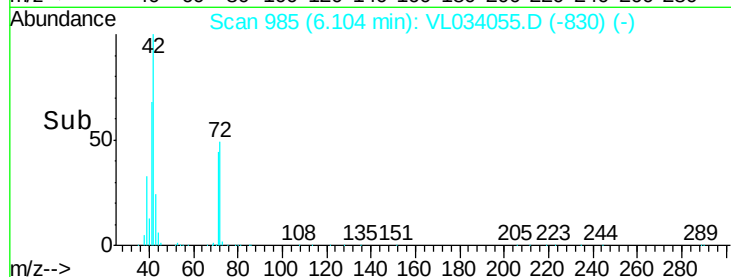
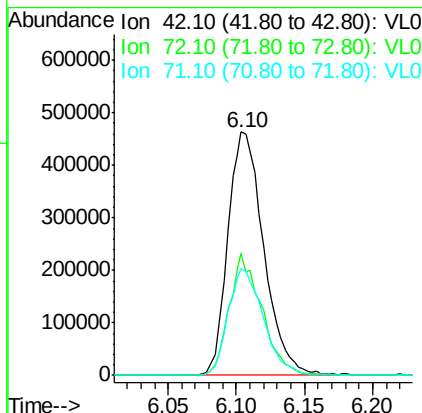
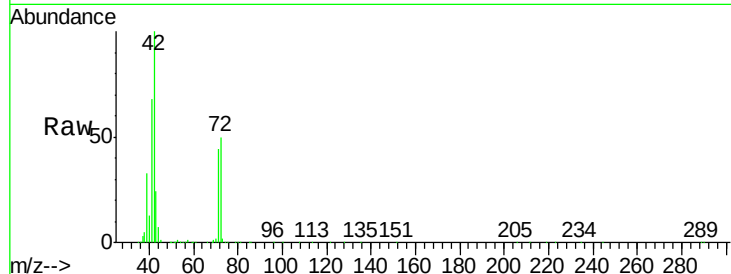
ClientSampleId :

ICVVL073019

Tot Ion:	42	Resp:	844474
Ion	Ratio	Lower	Upper
42	100		
72	45.8	36.9	55.3
71	43.2	36.6	54.8

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#42

Bromodichloromethane

Concen: 8.107 ppbv

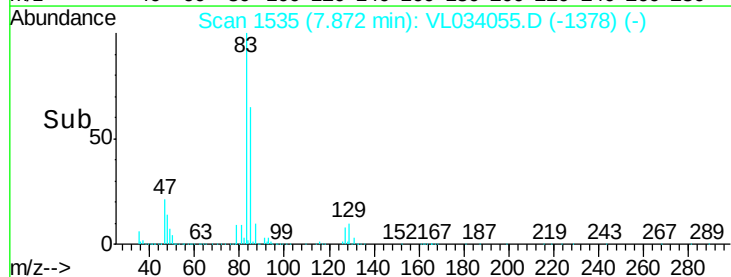
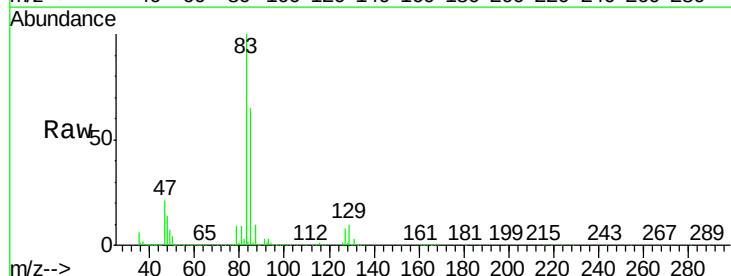
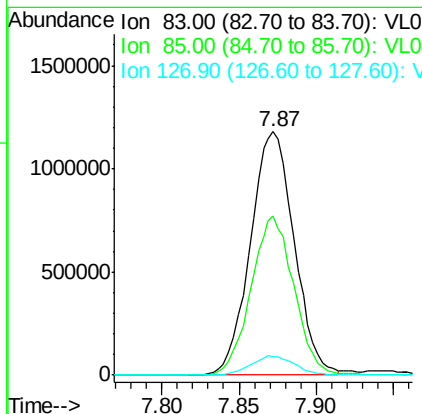
RT: 7.87 min Scan# 1535

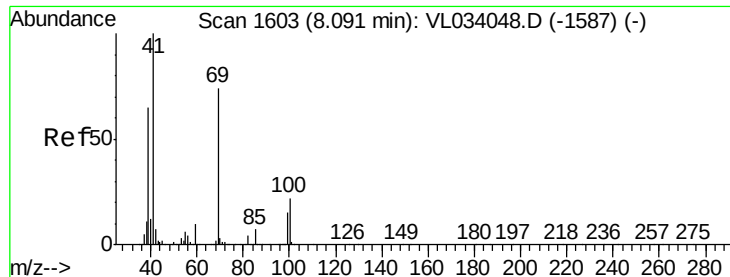
Delta R.T. 0.01 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Tgt Ion:	83	Resp:	2315764
Ion	Ratio	Lower	Upper
83	100		
85	65.5	48.6	73.0
127	7.5	5.5	8.3





#43

Methyl Methacrylate

Concen: 9.543 ppbv

RT: 8.09 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

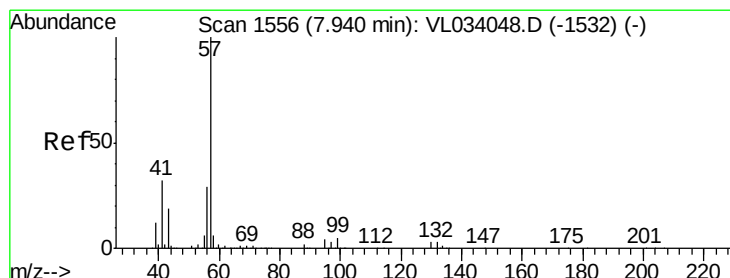
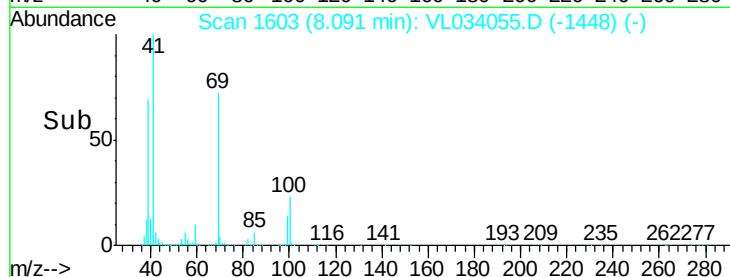
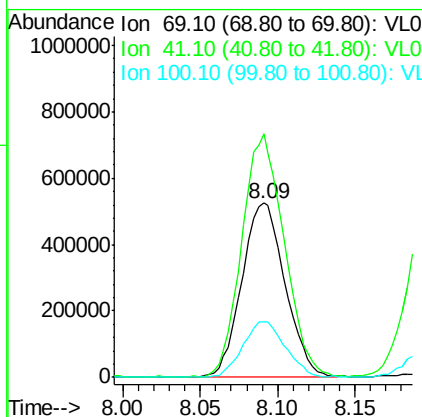
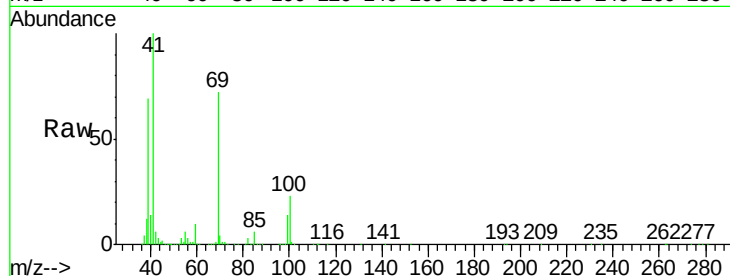
Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

Tot Ion: 69 Resp: 1022654

Ion	Ratio	Lower	Upper
69	100		
41	136.8	112.8	169.2
100	31.7	26.1	39.1

Manual Integrations
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MMdadoda
8/2/2019 9:37:41 AM



#44

2,2,4-Trimethylpentane

Concen: 8.506 ppbv

RT: 7.94 min Scan# 1557

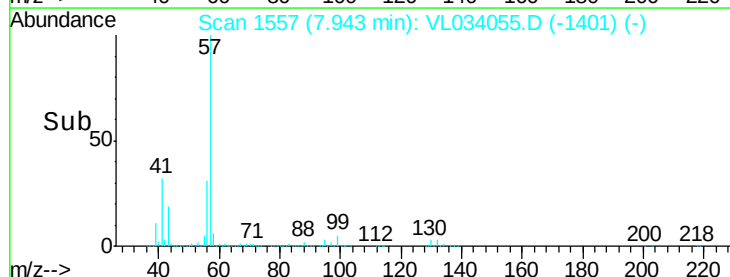
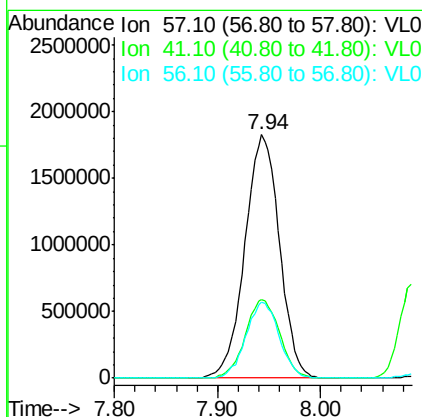
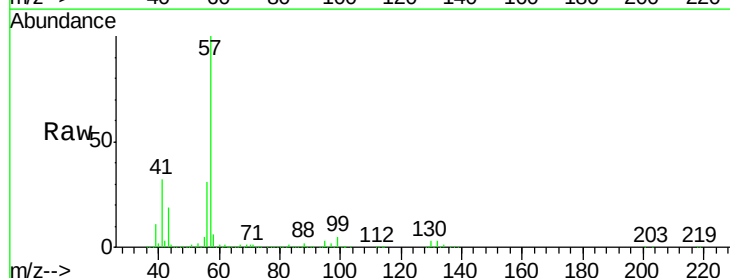
Delta R.T. 0.00 min

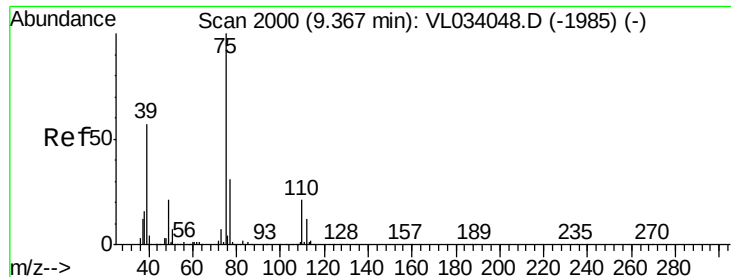
Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Tgt Ion: 57 Resp: 4246168

Ion	Ratio	Lower	Upper
57	100		
41	32.2	26.2	39.2
56	30.1	24.2	36.2





#45

t-1,3-Dichloropropene

Concen: 9.660 ppbv

RT: 9.36 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 75 Resp: 1332029

Ion Ratio Lower Upper

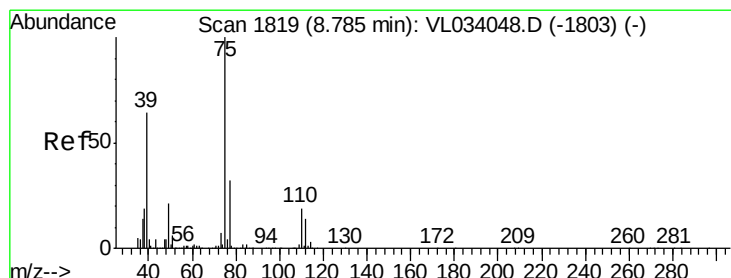
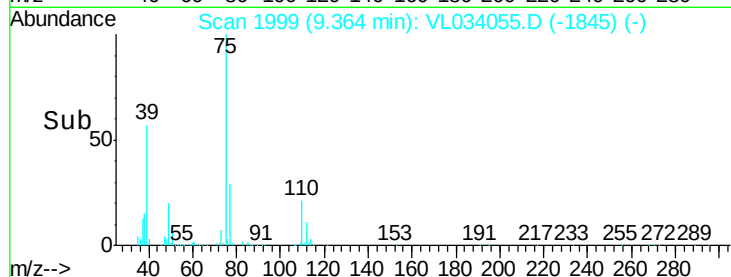
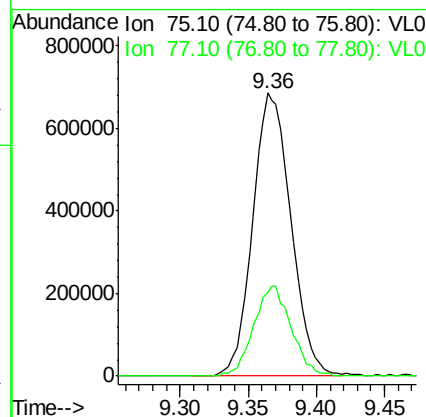
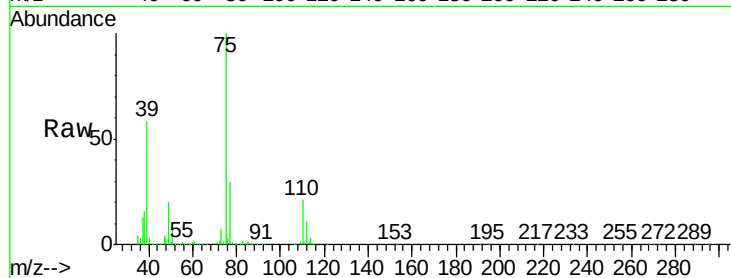
75 100

77 29.5 24.6 37.0

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#46

cis-1,3-Dichloropropene

Concen: 9.763 ppbv

RT: 8.79 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

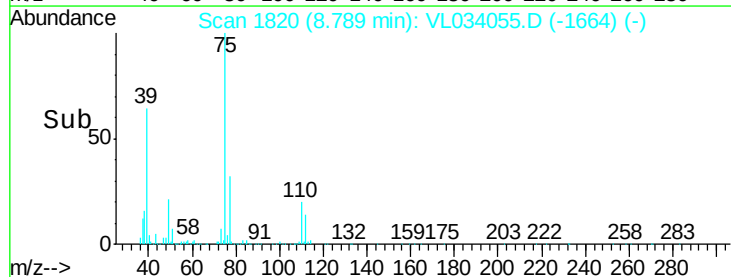
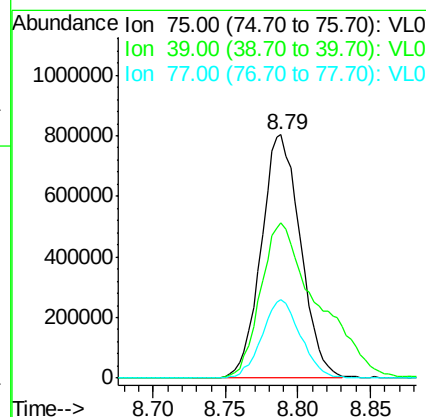
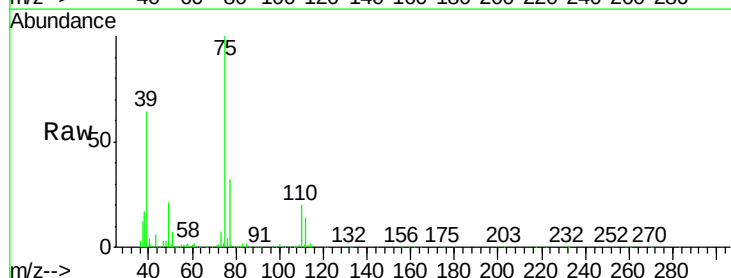
Tgt Ion: 75 Resp: 1512959

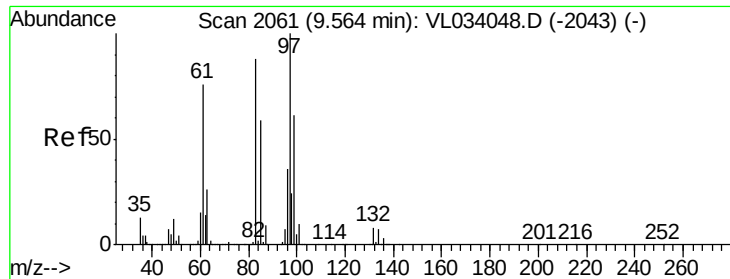
Ion Ratio Lower Upper

75 100

39 63.6 51.4 77.2

77 32.3 25.8 38.6





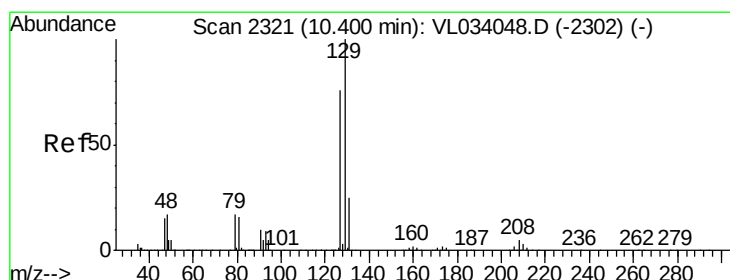
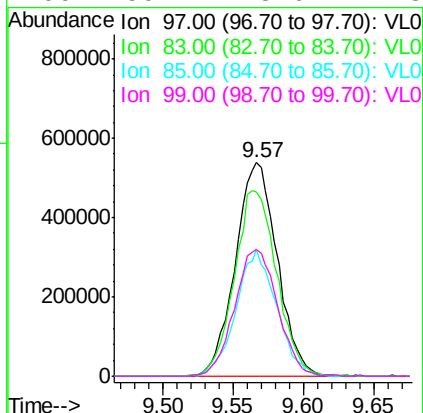
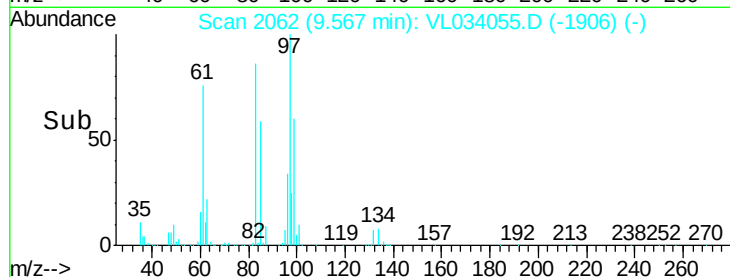
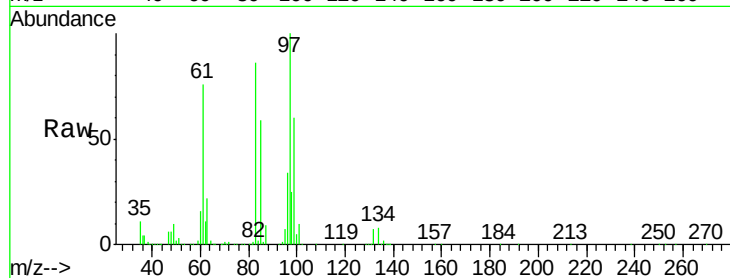
#47
 1,1,2-Trichloroethane
 Concen: 8.790 ppbv
 RT: 9.57 min Scan# 2062
 Delta R.T. 0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	86.3	70.6	106.0	
85	59.1	47.3	70.9	
99	59.4	48.6	72.8	

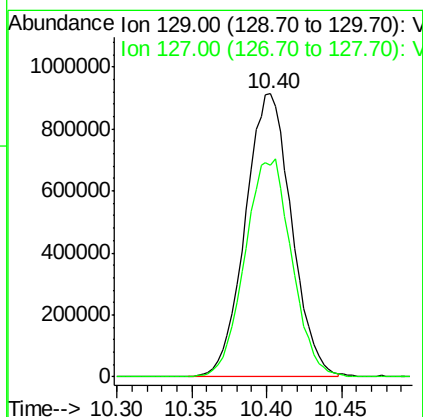
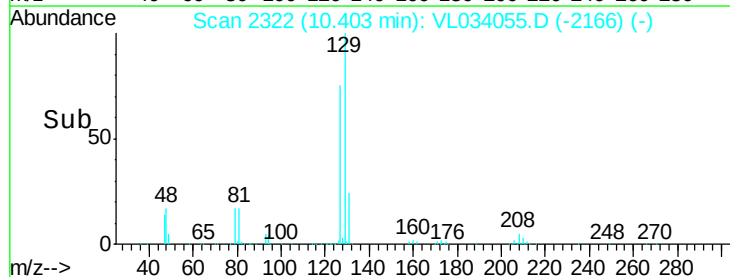
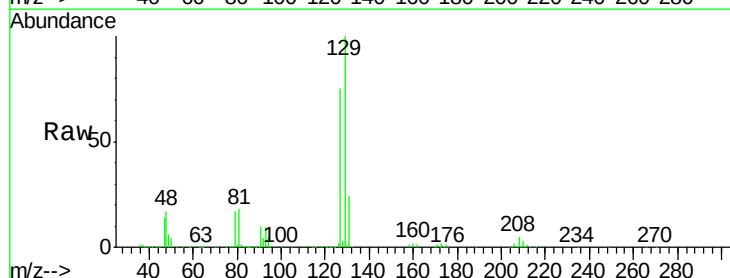
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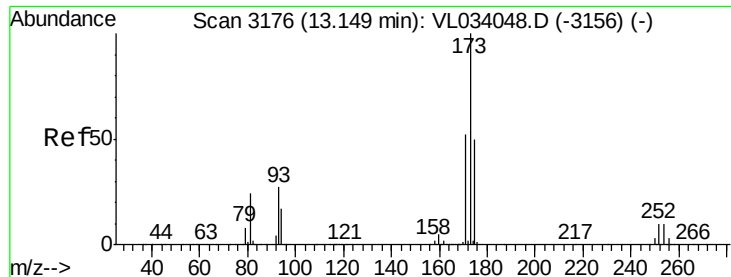
MMDadoda
 8/2/2019 9:37:41 AM



#48
 Dibromochloromethane
 Concen: 8.104 ppbv
 RT: 10.40 min Scan# 2322
 Delta R.T. 0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.0	38.6	115.8	





#49

Bromoform

Concen: 8.807 ppbv

RT: 13.15 min Scan# 3177

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion:173 Resp: 1860402

Ion Ratio Lower Upper

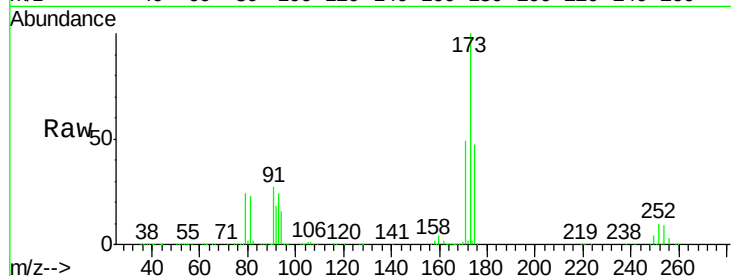
173 100

175 49.0 39.4 59.0

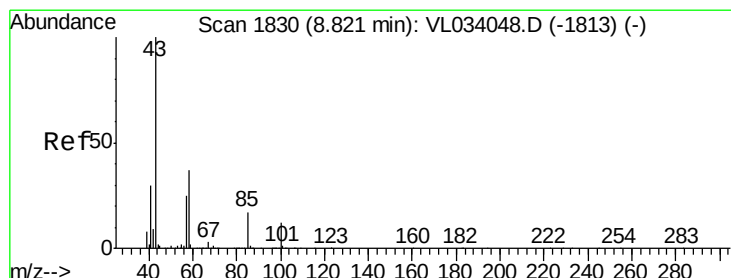
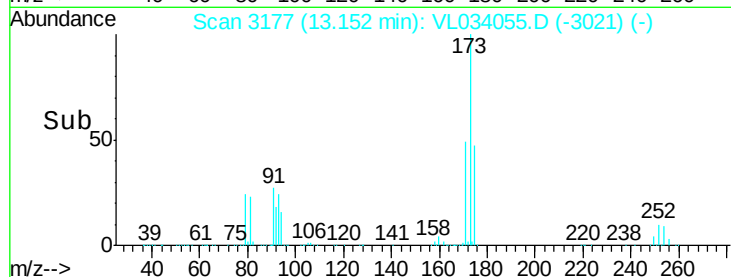
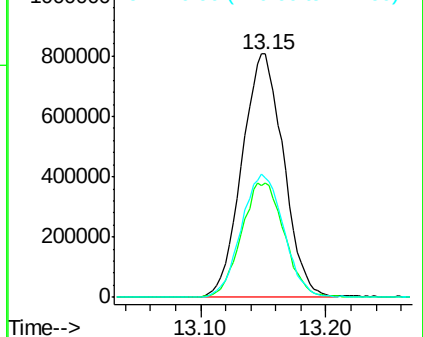
171 51.5 41.9 62.9

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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: 9.155 ppbv

RT: 8.82 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VL034055.D

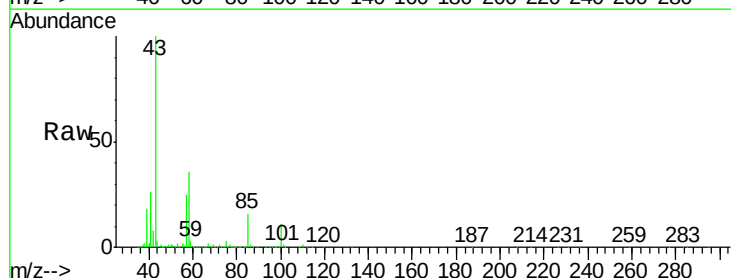
Acq: 30 Jul 2019 7:18

Tgt Ion: 43 Resp: 2526309

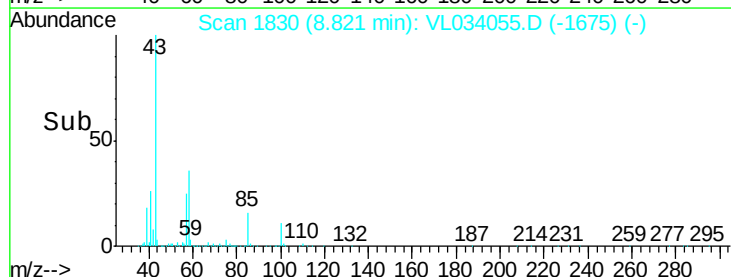
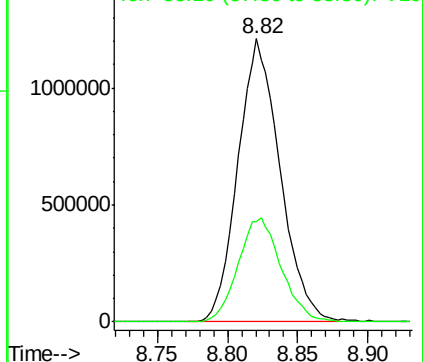
Ion Ratio Lower Upper

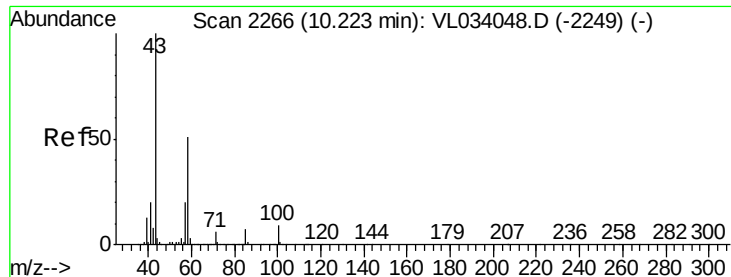
43 100

58 37.7 30.7 46.1



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





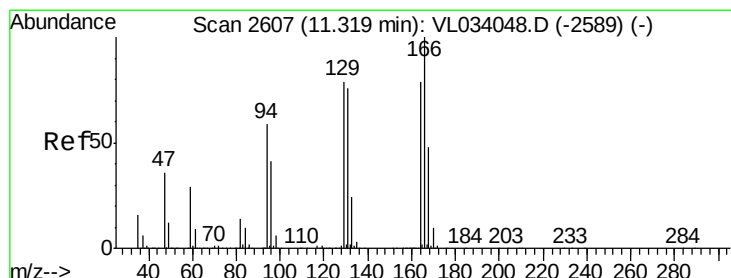
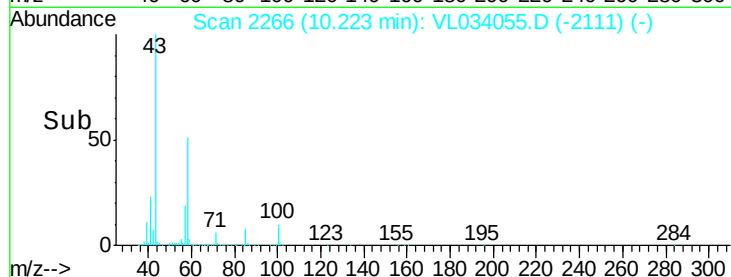
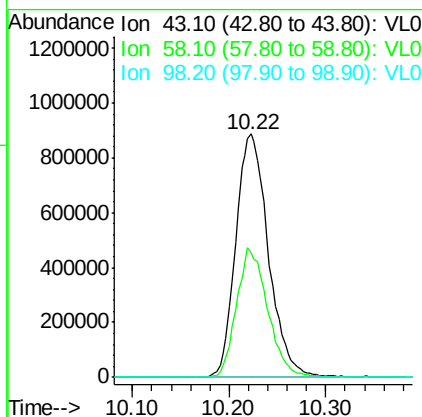
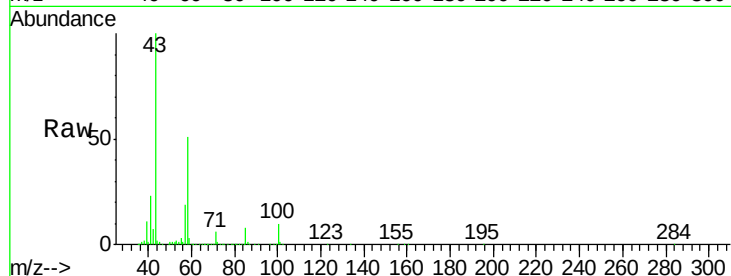
#51
2-Hexanone
Concen: 9.044 ppbv
RT: 10.22 min Scan# 2266
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

Tot Ion: 43 Resp: 2075565
Ion Ratio Lower Upper
43 100
58 51.2 40.2 60.2
98 0.2 0.4 0.6#

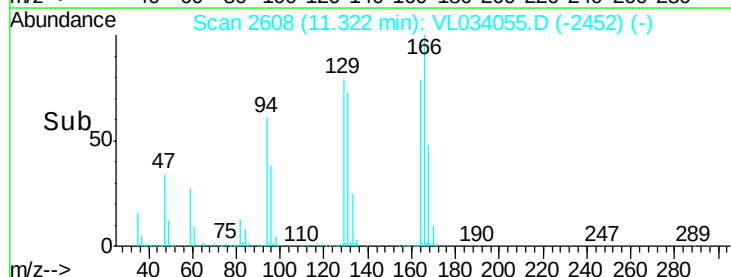
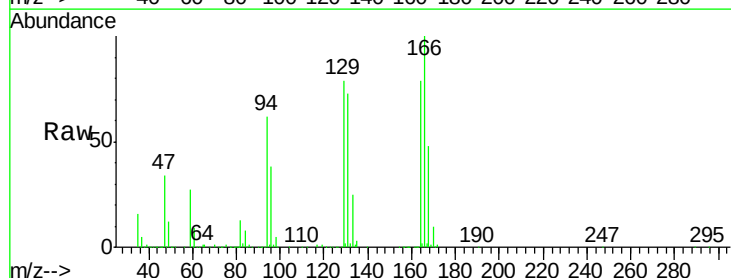
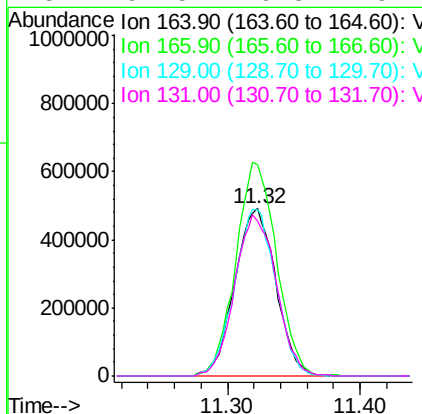
Manual Integrations
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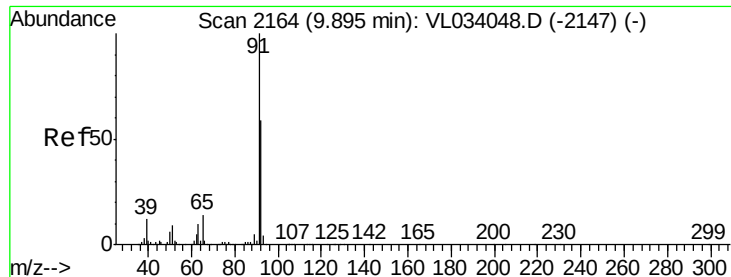
MMdadoda
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#52
Tetrachloroethene
Concen: 8.934 ppbv
RT: 11.32 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tgt Ion: 164 Resp: 1053241
Ion Ratio Lower Upper
164 100
166 126.4 101.6 152.4
129 99.4 80.7 121.1
131 92.5 76.8 115.2





#53

Toluene

Concen: 9.851 ppbv

RT: 9.89 min Scan# 2164

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 91 Resp: 3090175

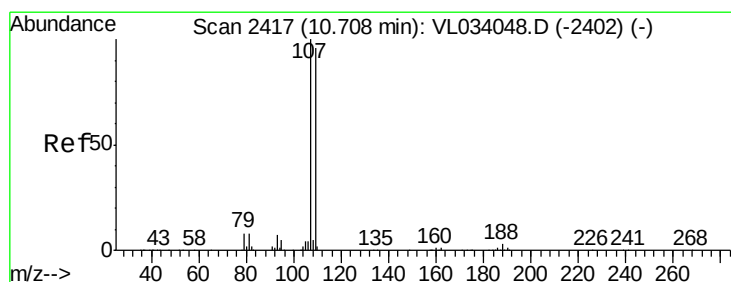
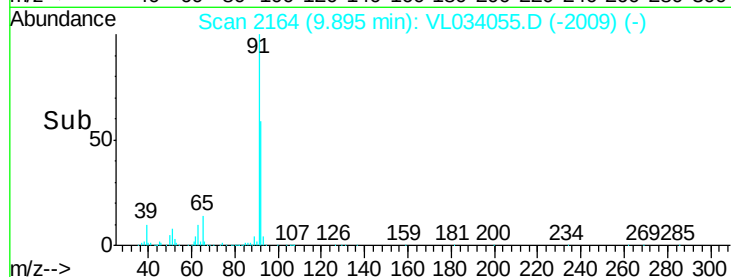
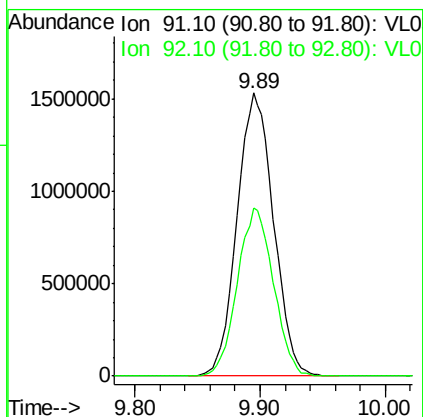
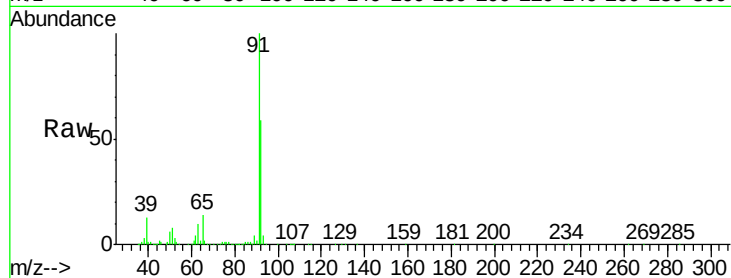
Ion Ratio Lower Upper

91 100

92 58.9 47.4 71.2

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 9.141 ppbv

RT: 10.71 min Scan# 2418

Delta R.T. 0.00 min

Lab File: VL034055.D

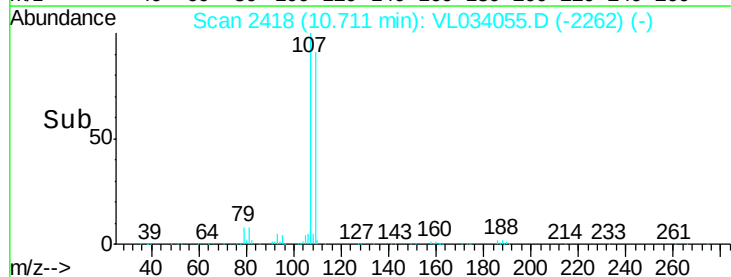
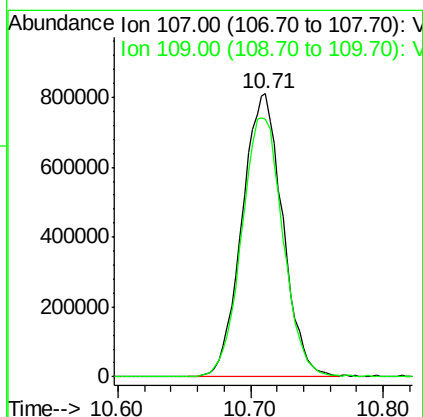
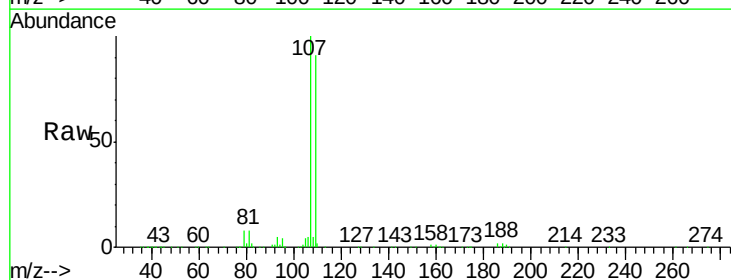
Acq: 30 Jul 2019 7:18

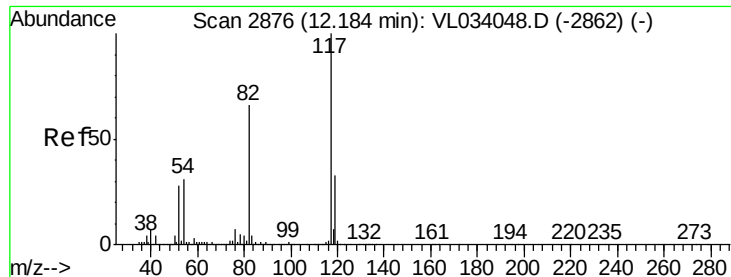
Tgt Ion: 107 Resp: 1721955

Ion Ratio Lower Upper

107 100

109 91.1 76.6 115.0





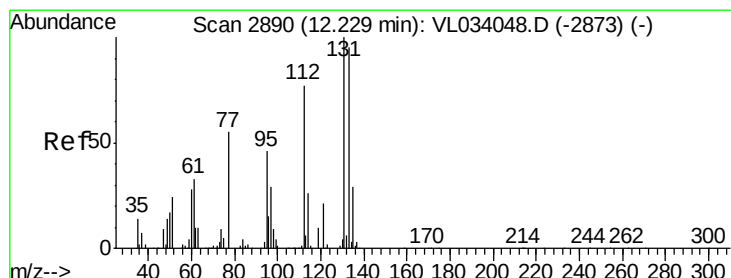
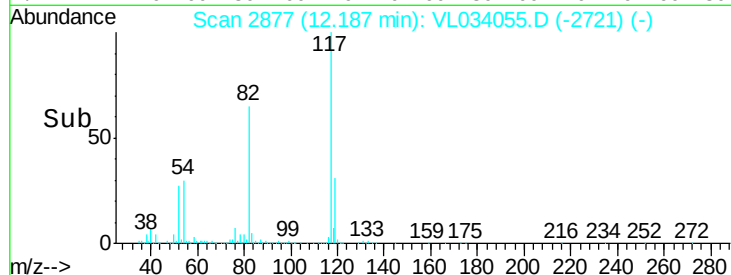
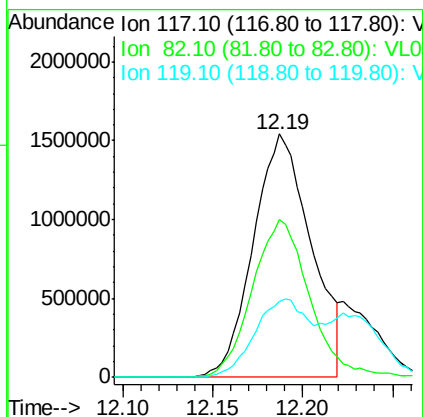
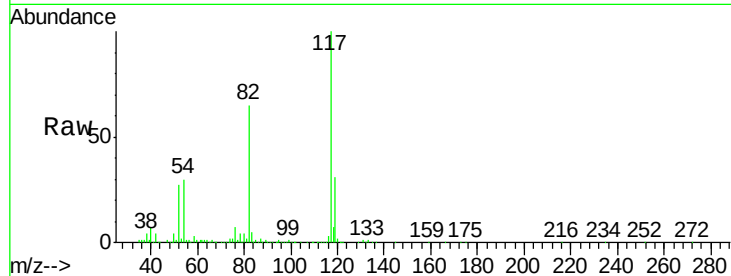
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.19 min Scan# 2877
Delta R.T. 0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

Tot Ion:117 Resp: 3463908
Ion Ratio Lower Upper
117 100
82 64.6 49.8 74.8
119 33.1 43.0 64.6#

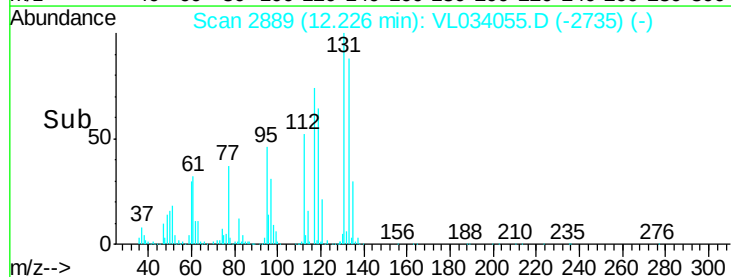
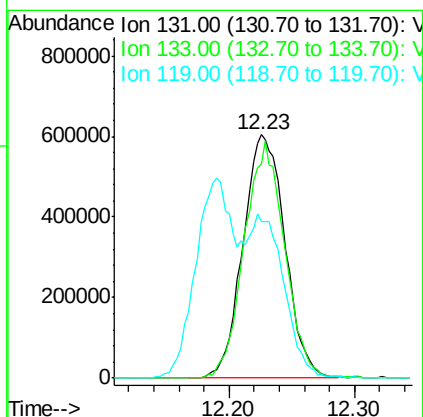
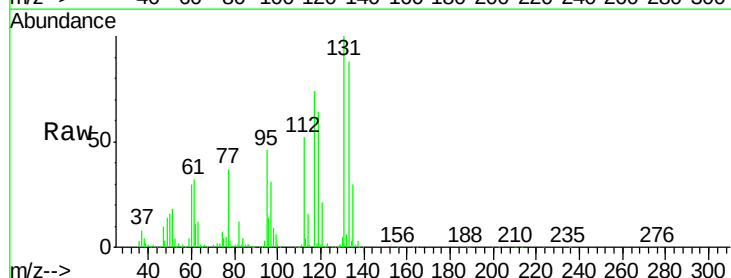
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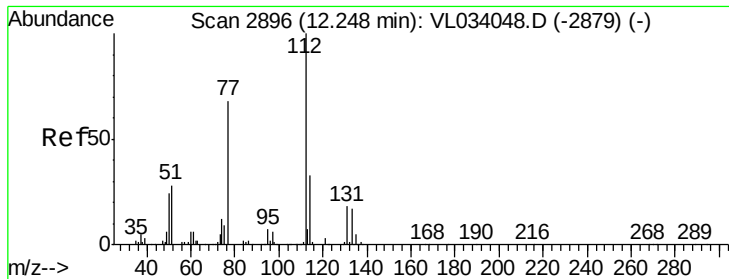
MMdadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.058 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tgt Ion:131 Resp: 1402077
Ion Ratio Lower Upper
131 100
133 93.8 76.6 114.8
119 55.0 46.6 69.8





#57

Chlorobenzene

Concen: 8.997 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 112 Resp: 2414619

Ion Ratio Lower Upper

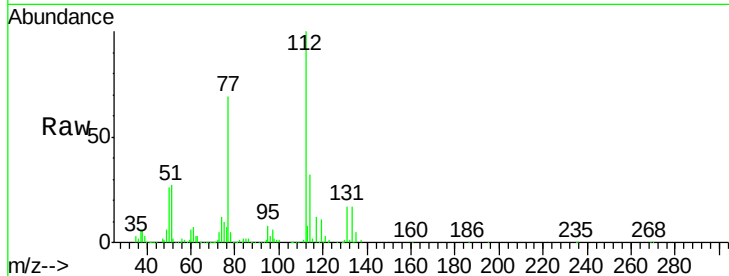
112 100

77 69.0 55.1 82.7

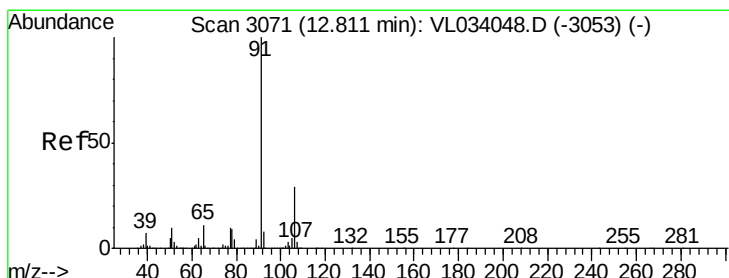
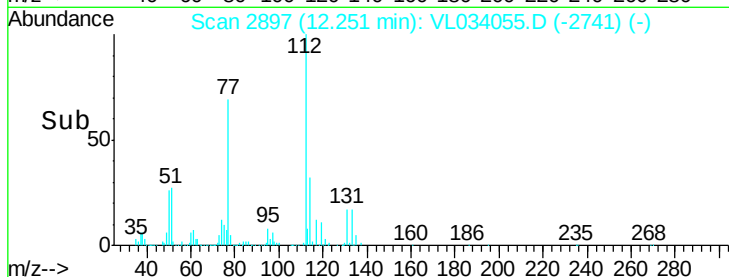
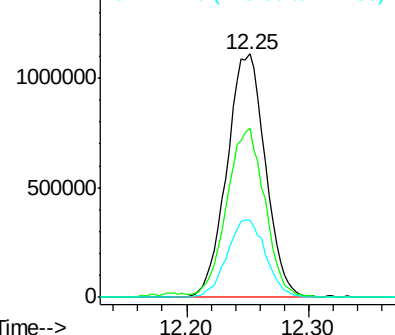
114 31.7 29.5 36.1

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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: 10.463 ppbv

RT: 12.81 min Scan# 3071

Delta R.T. -0.00 min

Lab File: VL034055.D

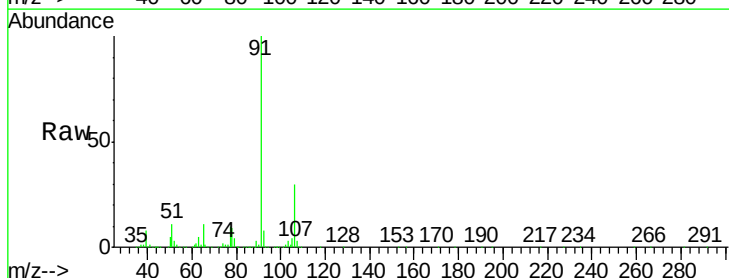
Acq: 30 Jul 2019 7:18

Tgt Ion: 91 Resp: 4289441

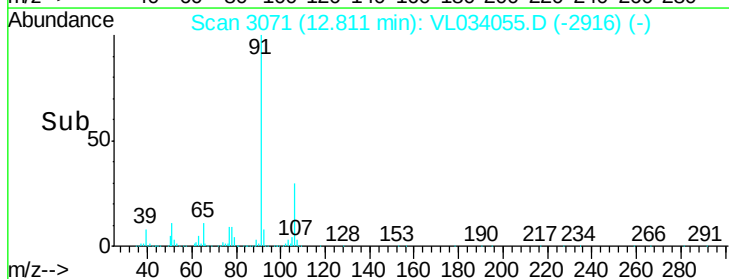
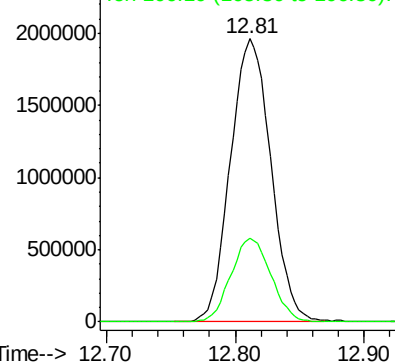
Ion Ratio Lower Upper

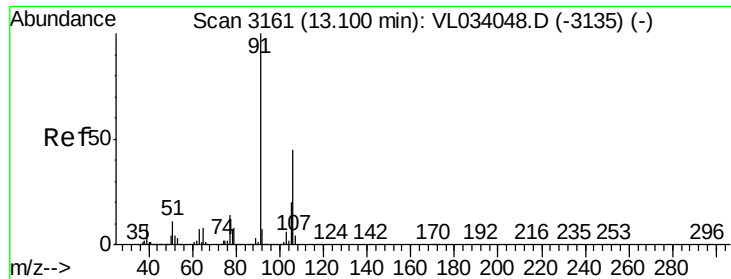
91 100

106 29.6 23.5 35.3



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





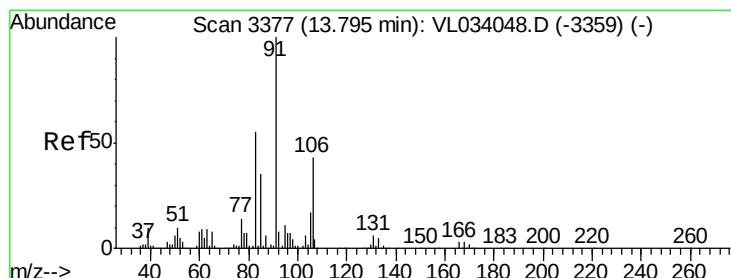
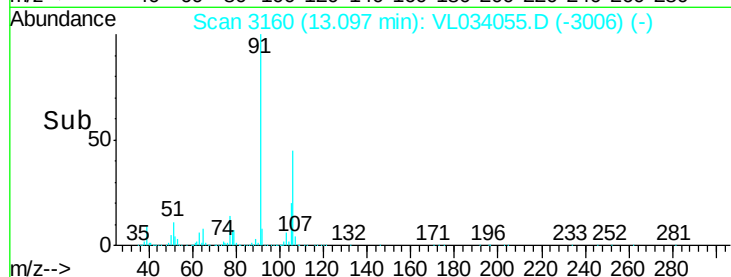
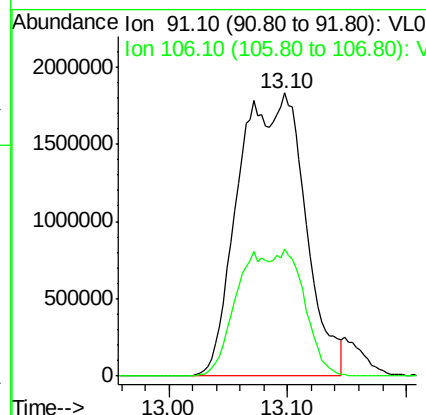
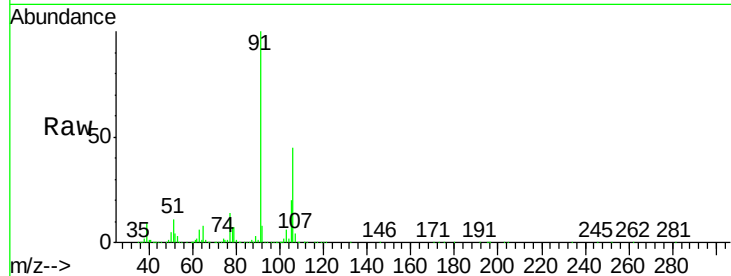
#59
m/p-Xylene
Concen: 19.281 ppbv m
RT: 13.10 min Scan# 3160
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

Tot Ion: 91 Resp: 7185288
Ion Ratio Lower Upper
91 100
106 44.0 35.1 52.7

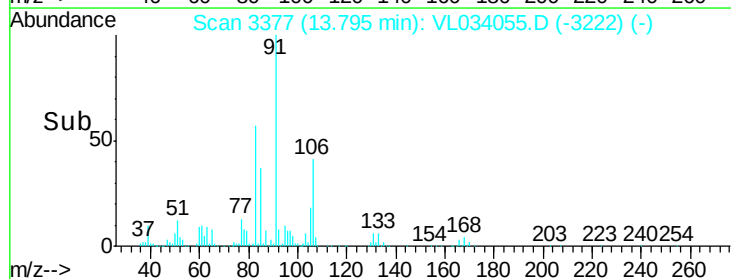
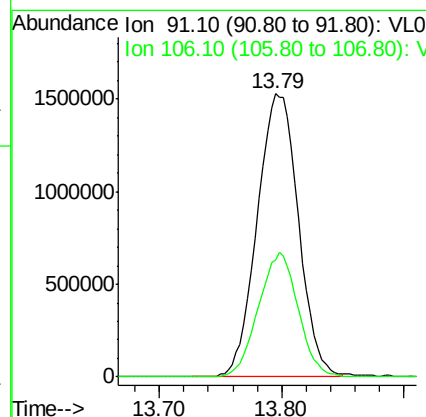
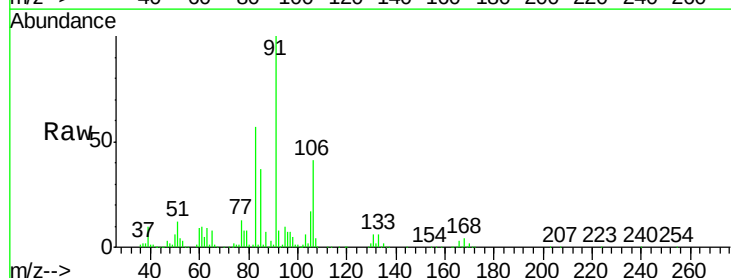
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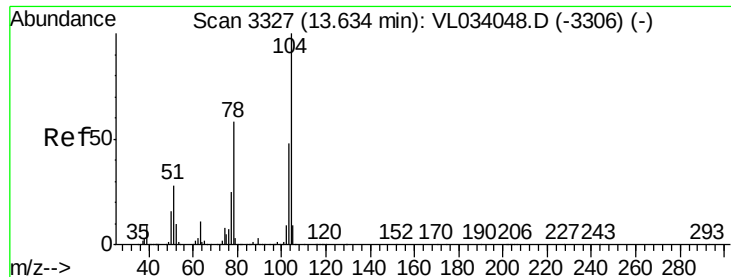
MMdadoda
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#60
o-Xylene
Concen: 9.647 ppbv
RT: 13.79 min Scan# 3377
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tgt Ion: 91 Resp: 3573124
Ion Ratio Lower Upper
91 100
106 42.7 21.2 63.6





#61

Stvrene

Concen: 10.491 ppbv

RT: 13.63 min Scan# 3327

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion:104 Resp: 2565950

Ion Ratio Lower Upper

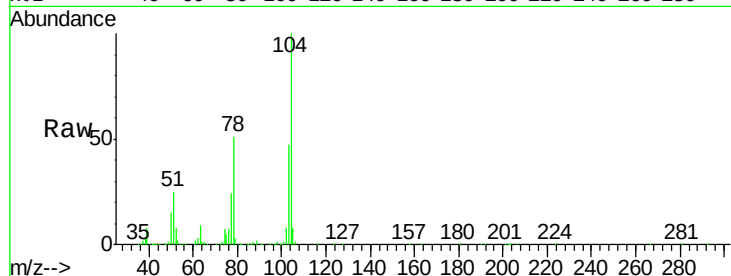
104 100

78 54.8 44.3 66.5

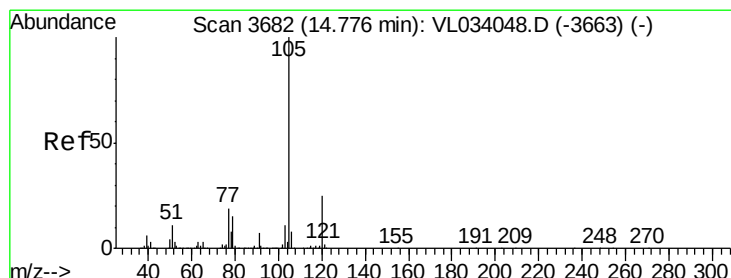
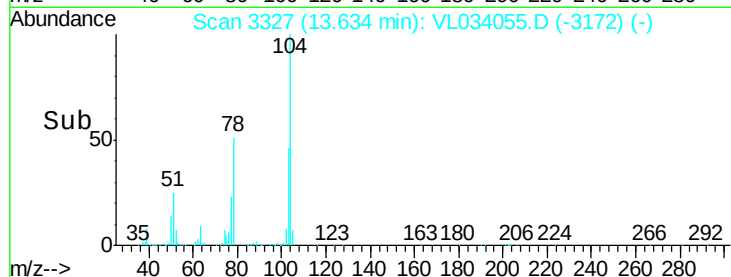
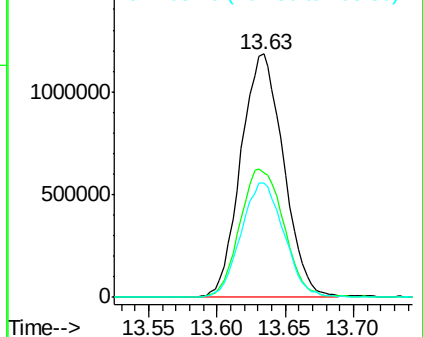
103 47.6 38.8 58.2

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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



#62

Isopropylbenzene

Concen: 9.557 ppbv

RT: 14.77 min Scan# 3681

Delta R.T. -0.00 min

Lab File: VL034055.D

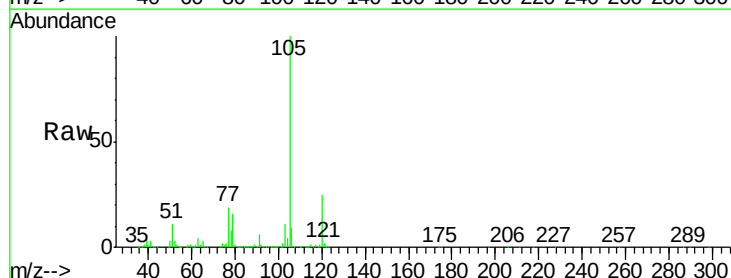
Acq: 30 Jul 2019 7:18

Tgt Ion:105 Resp: 4742529

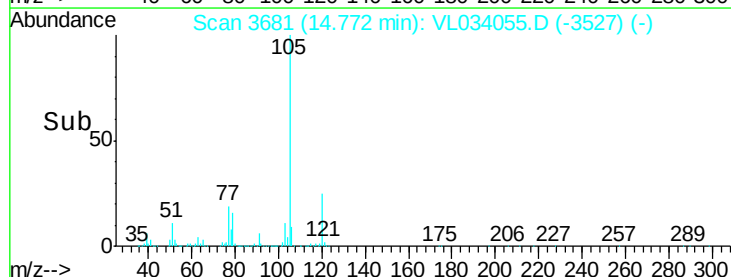
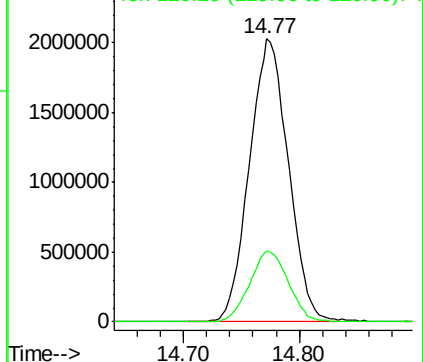
Ion Ratio Lower Upper

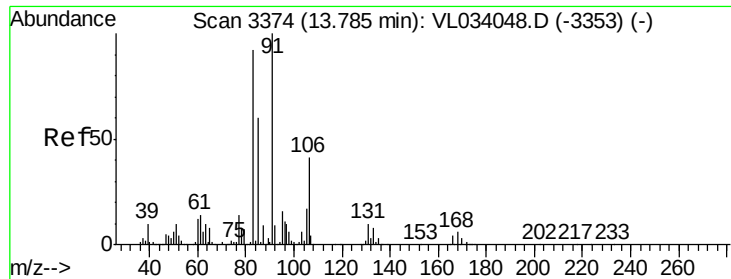
105 100

120 25.0 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





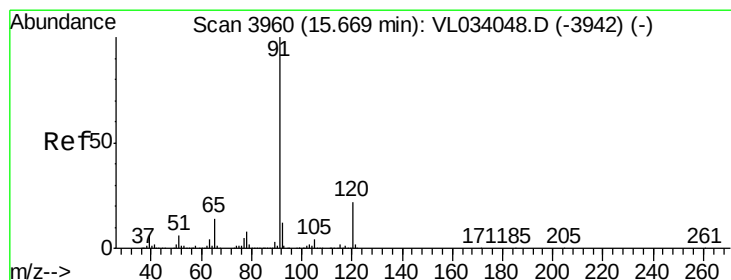
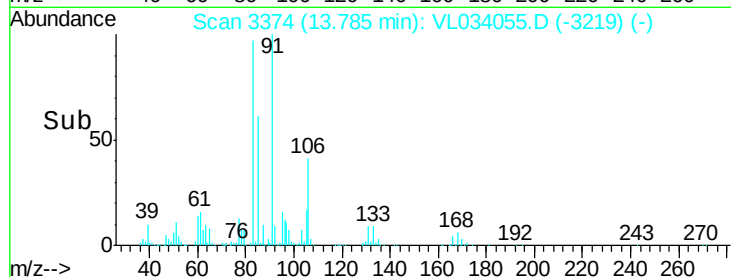
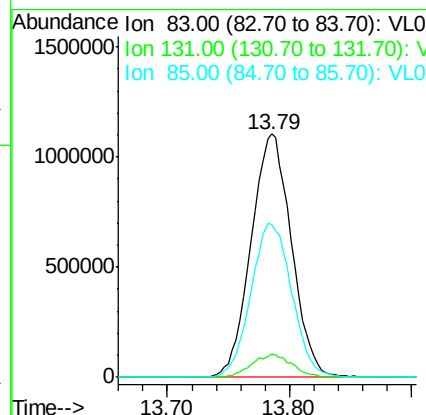
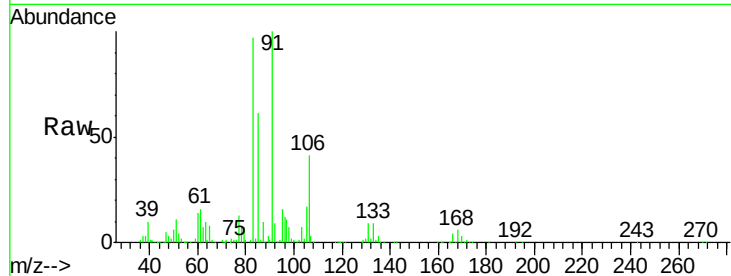
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.876 ppbv
 RT: 13.79 min Scan# 3374
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion	83	Resp	2523055
Ion Ratio	100	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.3	32.4	97.0

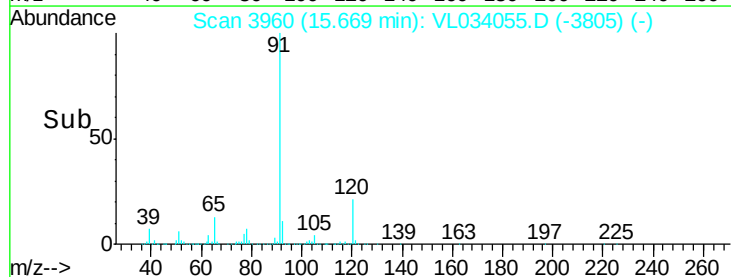
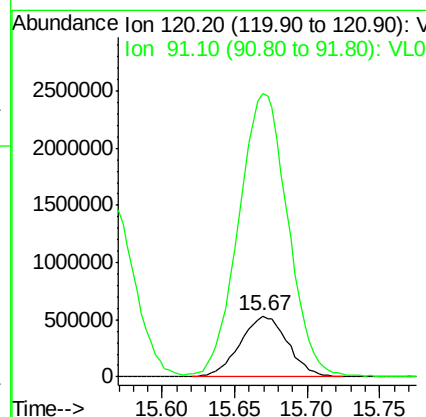
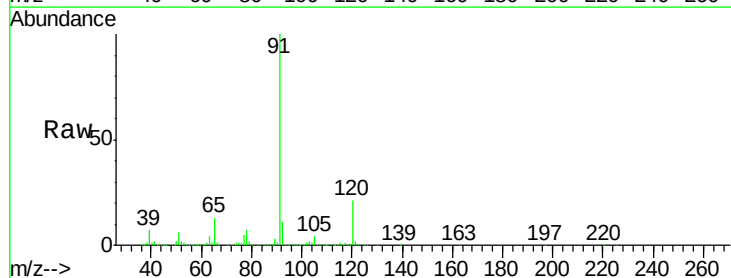
Manual Integrations
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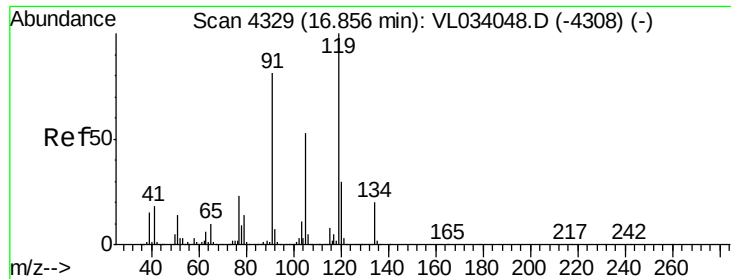
MMdadoda
 8/2/2019 9:37:41 AM



#64
 n-propylbenzene
 Concen: 9.291 ppbv
 RT: 15.67 min Scan# 3960
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion	120	Resp	1193842
Ion Ratio	100	Lower	Upper
120	100		
91	491.5	386.2	579.2





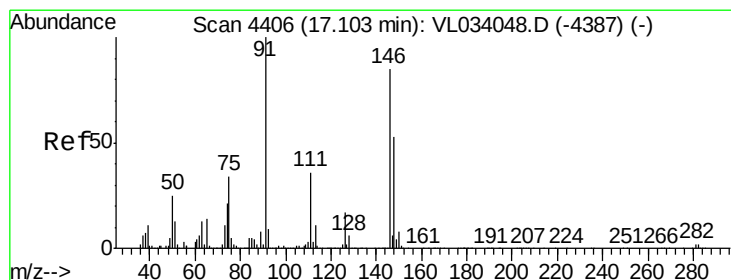
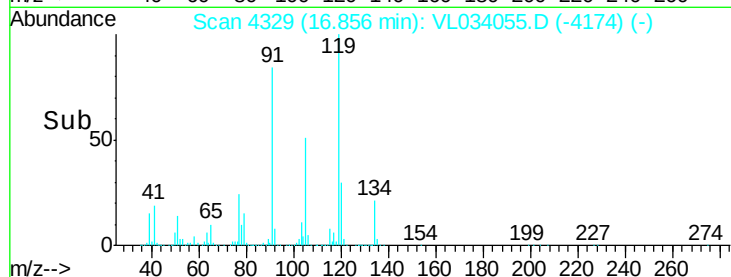
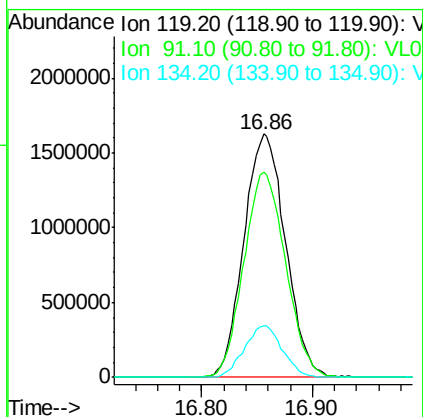
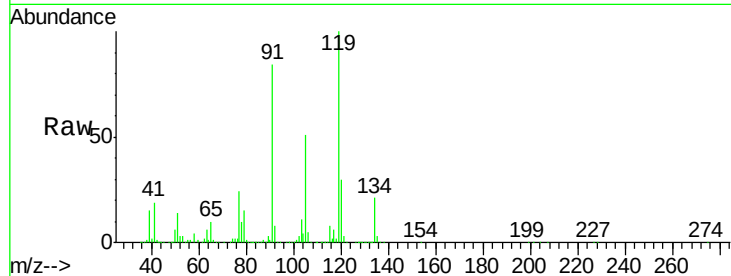
#65
 tert-Butylbenzene
 Concen: 9.288 ppbv
 RT: 16.86 min Scan# 4329
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion: 119 Resp: 4248520
 Ion Ratio Lower Upper
 119 100
 91 85.0 66.9 100.3
 134 19.5 15.5 23.3

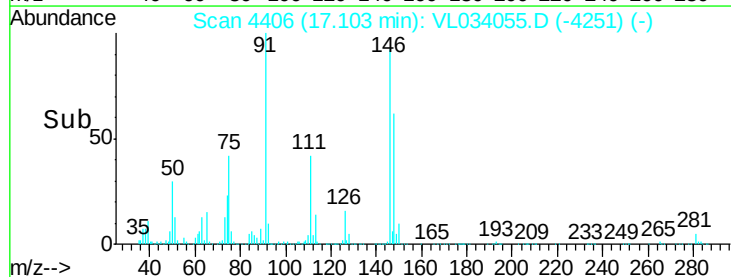
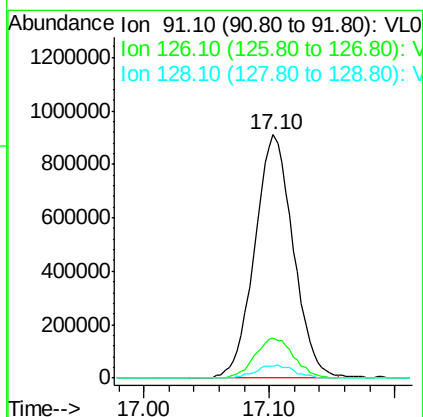
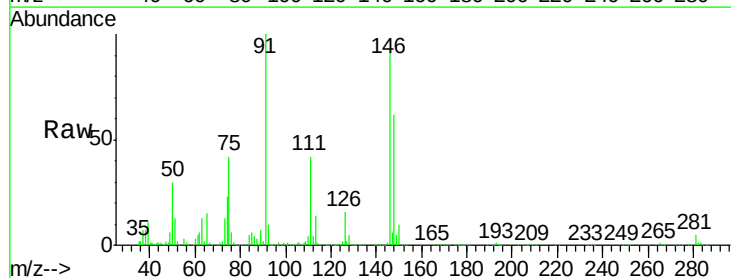
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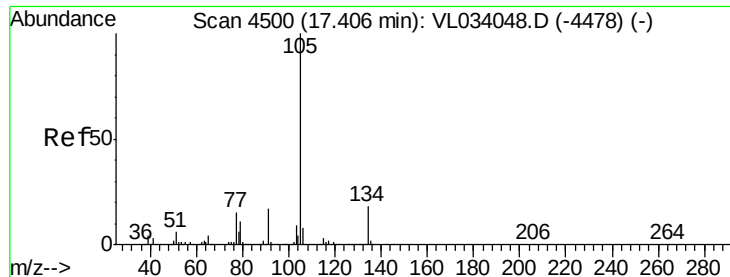
MMdadoda
 8/2/2019 9:37:41 AM



#66
 Benzyl Chloride
 Concen: 8.472 ppbv
 RT: 17.10 min Scan# 4406
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion: 91 Resp: 1944587
 Ion Ratio Lower Upper
 91 100
 126 16.8 13.5 20.3
 128 5.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 9.297 ppbv

RT: 17.41 min Scan# 4501

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 105 Resp: 6045160

Ion Ratio Lower Upper

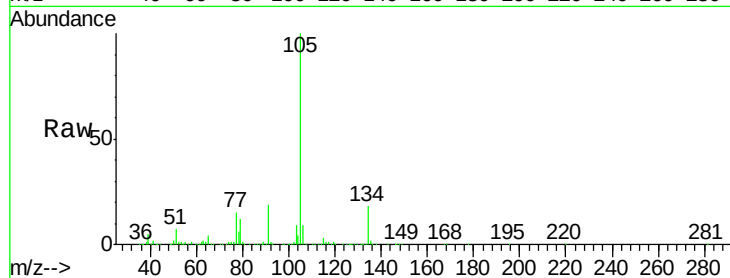
105 100

134 17.8 14.3 21.5

Manual Integrations
APPROVED

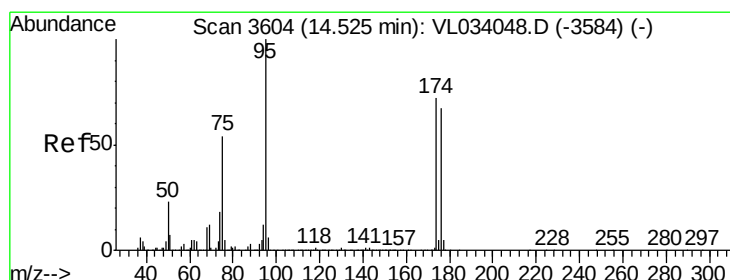
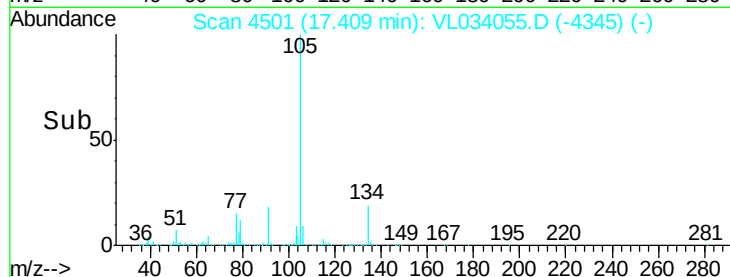
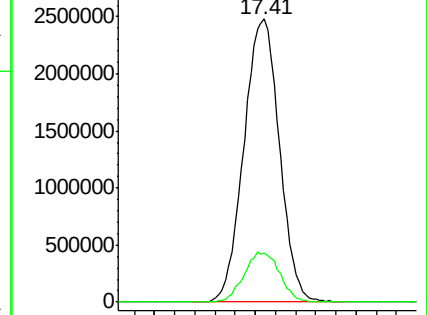
MMdadoda

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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: 9.527 ppbv

RT: 14.52 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

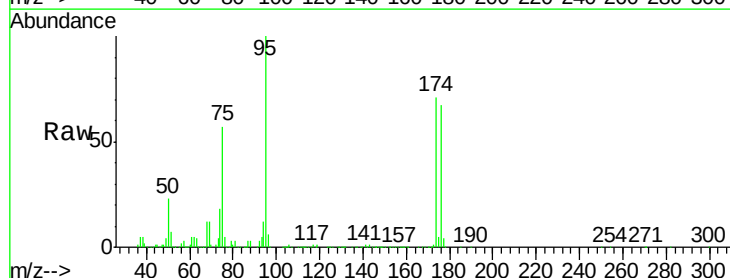
Tgt Ion: 95 Resp: 2608548

Ion Ratio Lower Upper

95 100

174 71.3 57.6 86.4

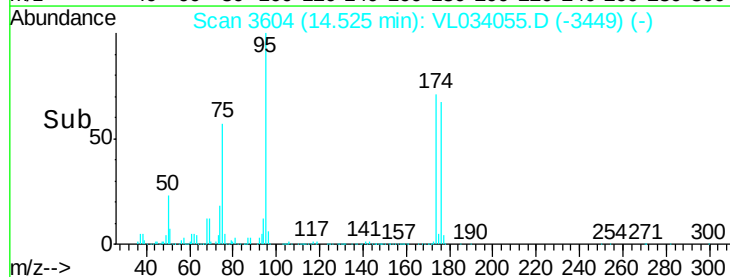
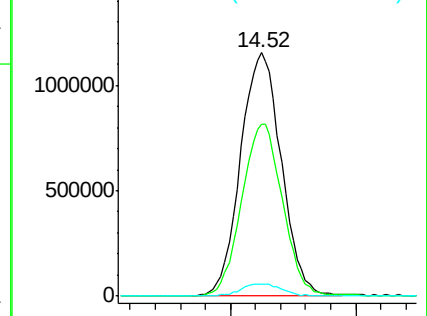
175 5.2 4.1 6.1

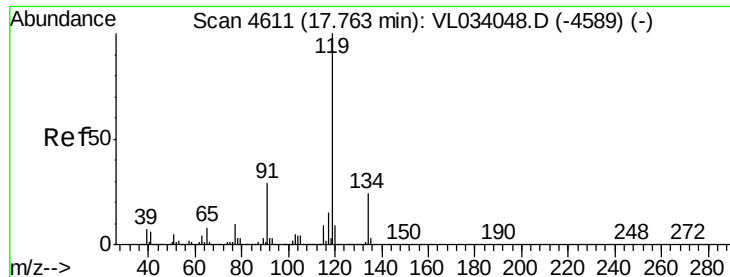


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





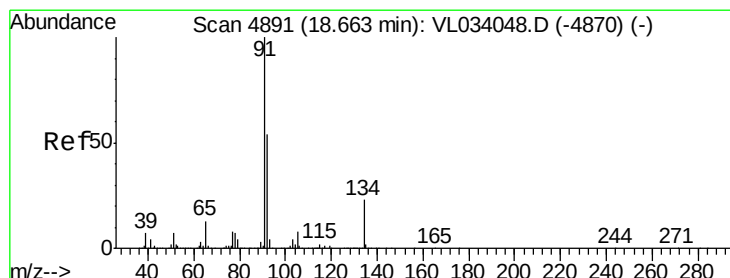
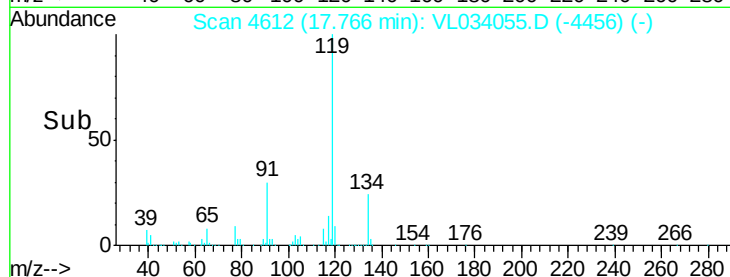
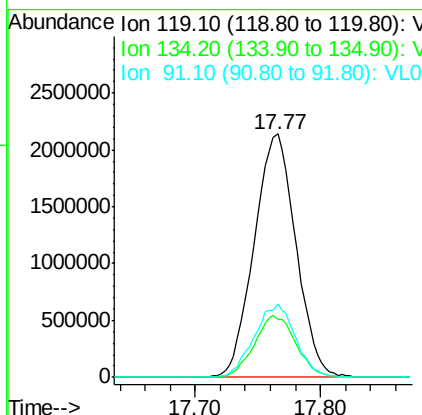
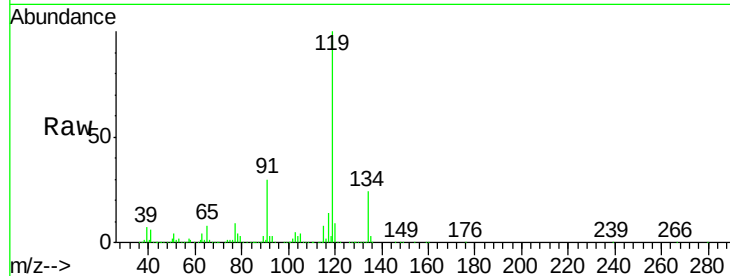
#69
 p-Isopropyltoluene
 Concen: 9.352 ppbv
 RT: 17.77 min Scan# 4612
 Delta R.T. 0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.1	30.1
91	29.8	23.6	35.4

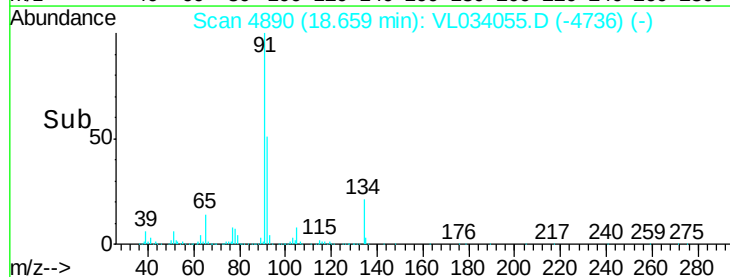
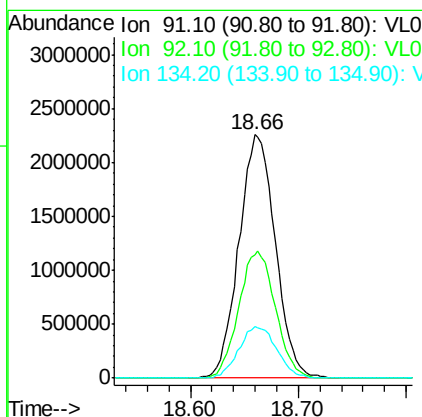
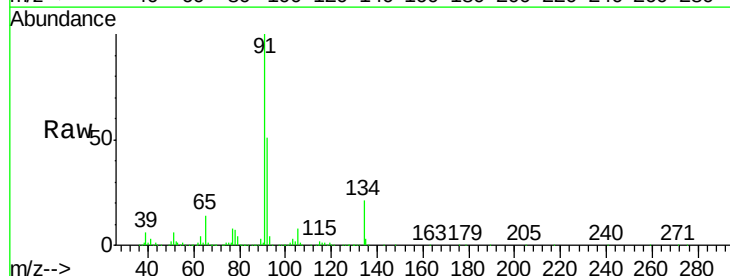
Manual Integrations
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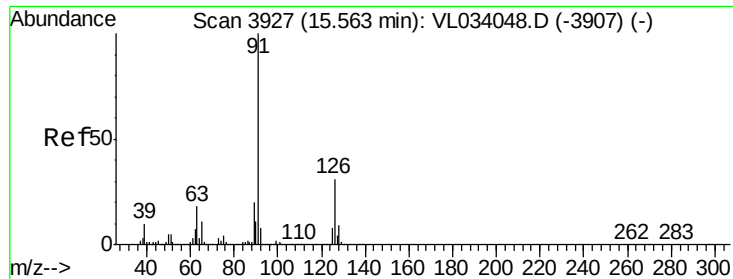
MMDadoda
 8/2/2019 9:37:41 AM



#70
 n-Butylbenzene
 Concen: 9.436 ppbv
 RT: 18.66 min Scan# 4890
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.7	42.6	64.0
134	22.0	17.7	26.5





#71

2-Chlorotoluene

Concen: 10.074 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion: 91 Resp: 3629311

Ion Ratio Lower Upper

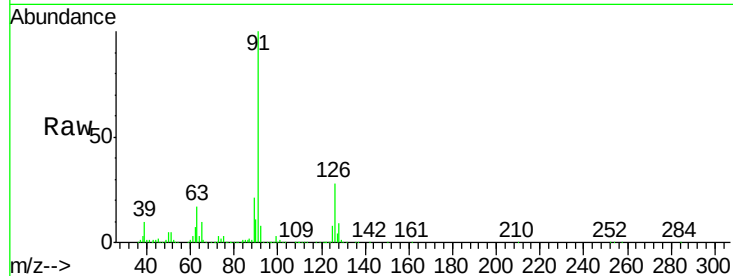
91 100

126 29.9 12.0 48.2

Manual Integrations
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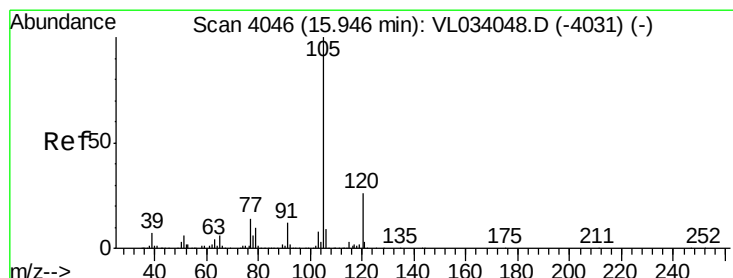
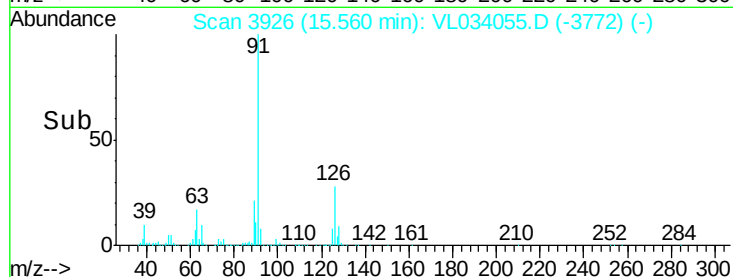
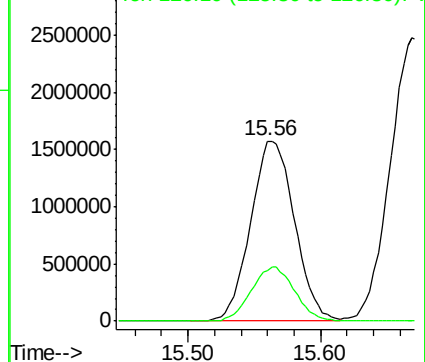
MMdadoda

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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: 9.765 ppbv

RT: 15.95 min Scan# 4047

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Tgt Ion:105 Resp: 4089469

Ion Ratio Lower Upper

105 100

120 27.9 23.0 34.4

91 13.4 10.6 16.0

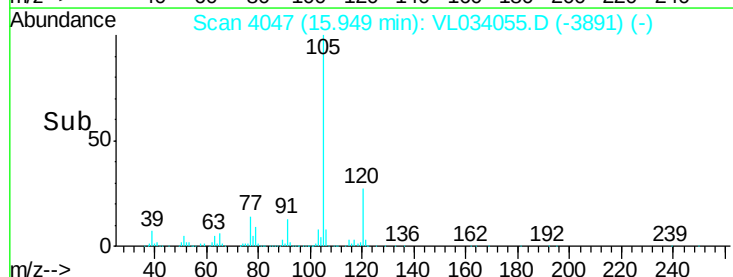
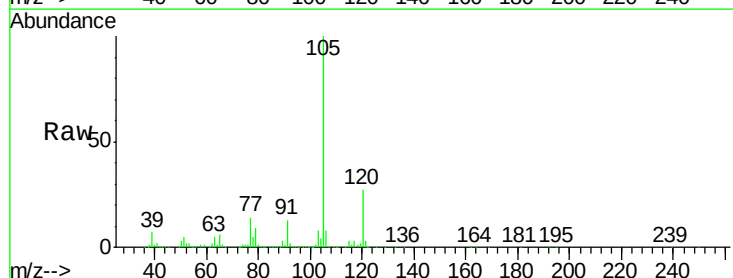
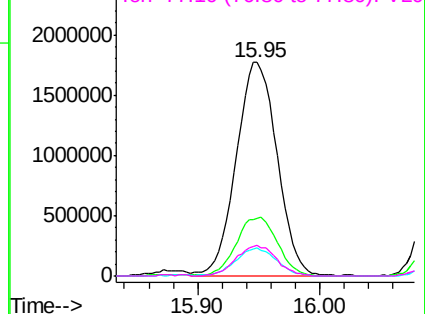
77 14.7 11.5 17.3

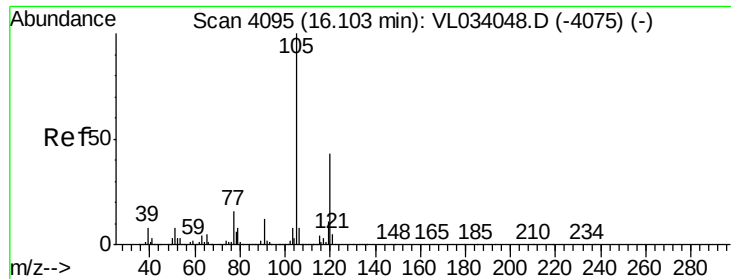
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.262 ppbv

RT: 16.11 min Scan# 4096

Delta R.T. 0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion:105 Resp: 3947918

Ion Ratio Lower Upper

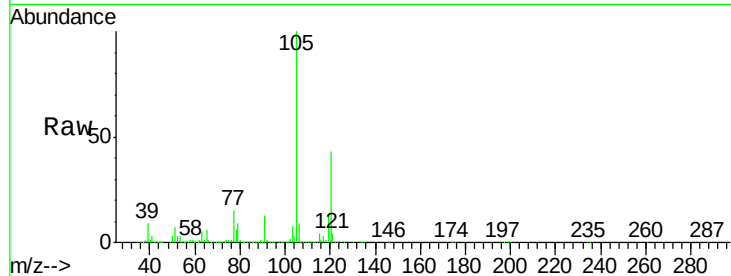
105 100

120 43.1 34.7 52.1

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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

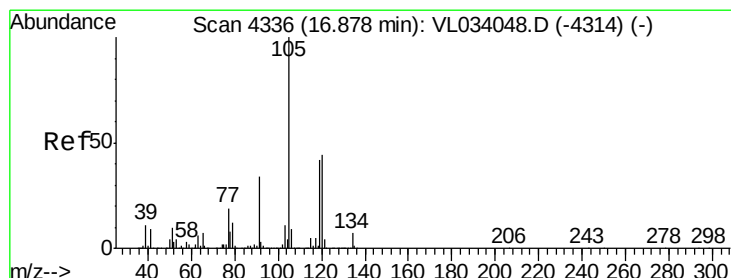
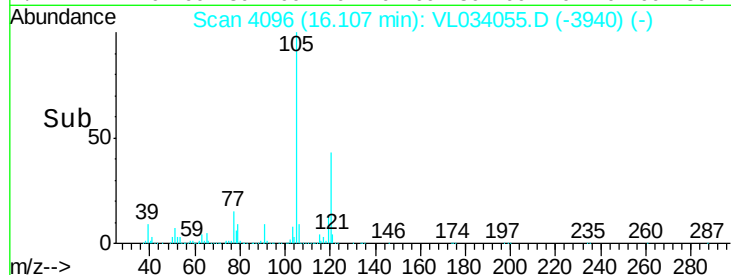
1000000

500000

0

16.00 16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.671 ppbv

RT: 16.87 min Scan# 4334

Delta R.T. -0.01 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Tgt Ion:105 Resp: 4060280

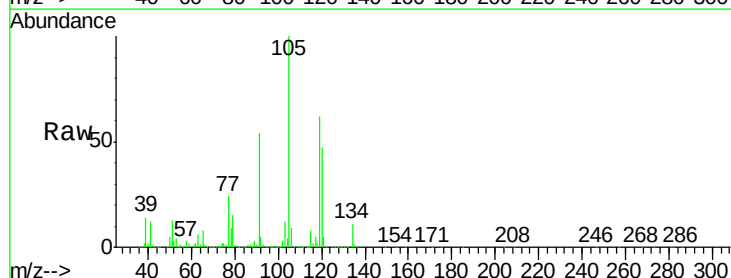
Ion Ratio Lower Upper

105 100

120 46.7 35.6 53.4

91 54.0 28.0 42.0#

77 23.4 15.2 22.8#



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

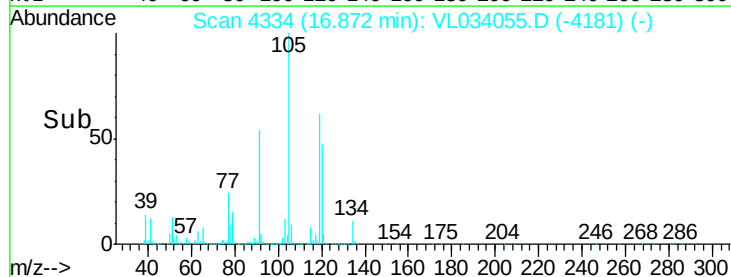
1000000

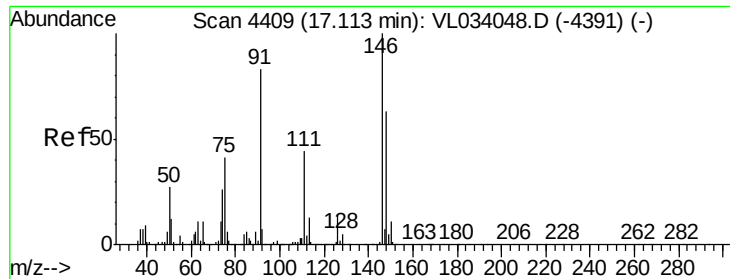
500000

0

16.80 16.90

Time-->





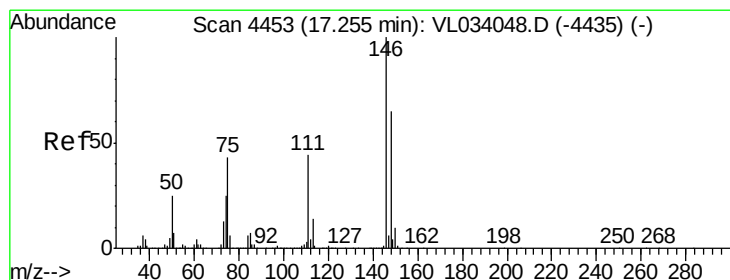
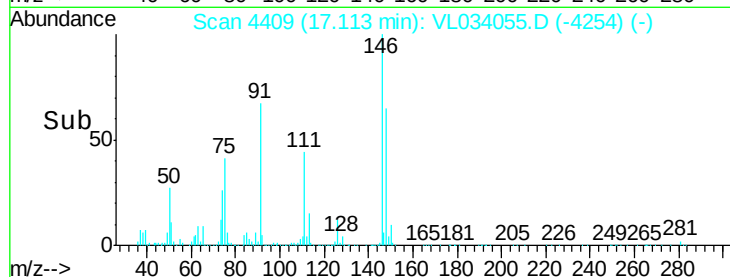
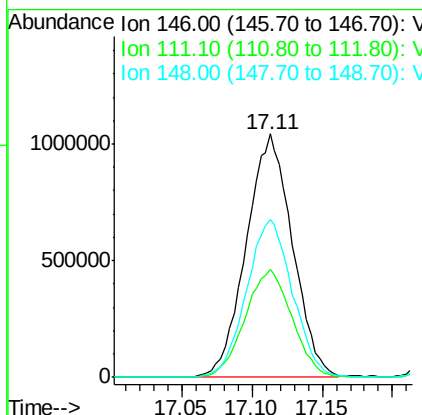
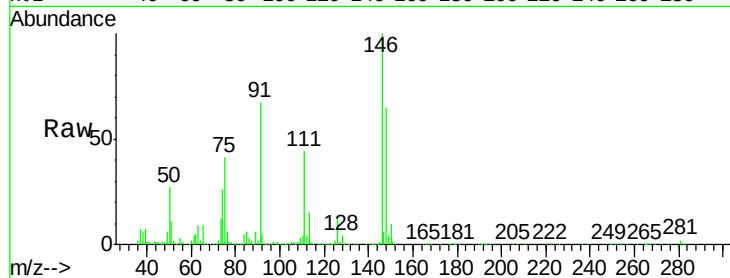
#75
 1,3-Dichlorobenzene
 Concen: 8.149 ppbv
 RT: 17.11 min Scan# 4409
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.3	22.1	66.5
148	64.8	32.0	96.2

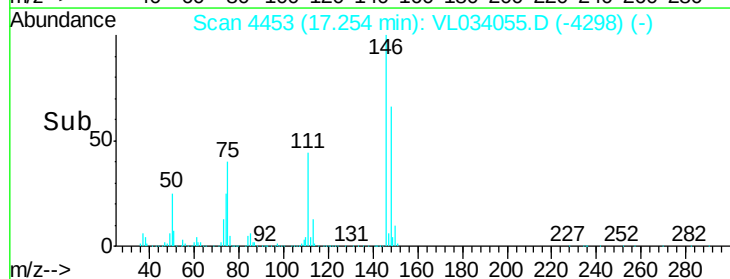
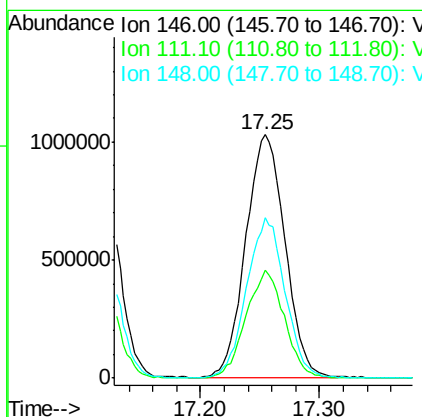
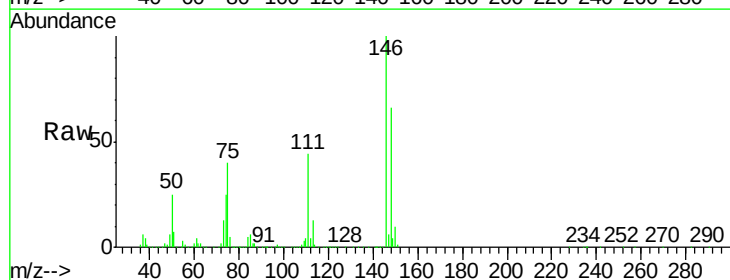
Manual Integrations
 APPROVED

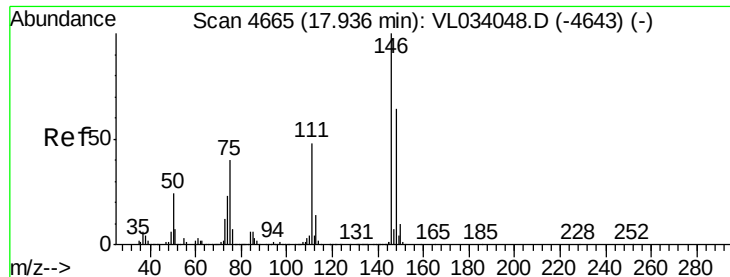
MMDadoda
 8/2/2019 9:37:41 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.531 ppbv
 RT: 17.25 min Scan# 4453
 Delta R.T. -0.00 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.8	65.4
148	64.8	32.3	96.9





#77

1,2-Dichlorobenzene

Concen: 8.666 ppbv

RT: 17.94 min Scan# 4665

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

Instrument :

MSVOA_L

ClientSampleId :

ICVVL073019

Tot Ion:146 Resp: 2330739

Ion Ratio Lower Upper

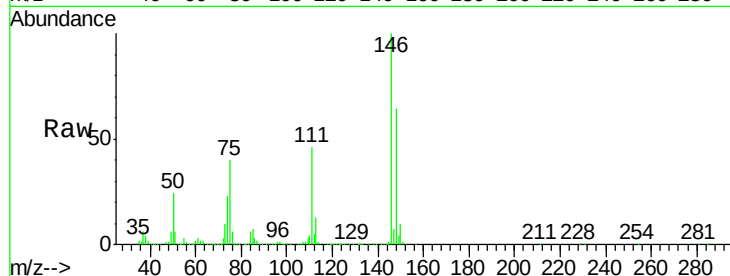
146 100

111 46.0 23.4 70.2

148 62.9 32.3 96.9

Manual Integrations
APPROVED

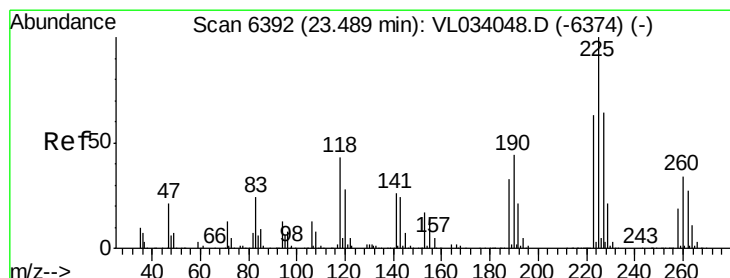
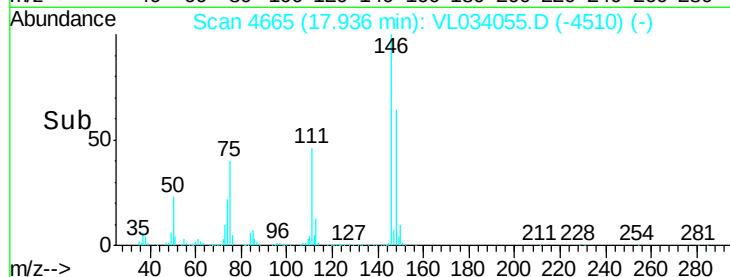
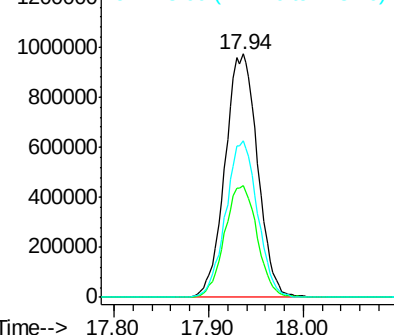
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.076 ppbv

RT: 23.49 min Scan# 6392

Delta R.T. -0.00 min

Lab File: VL034055.D

Acq: 30 Jul 2019 7:18

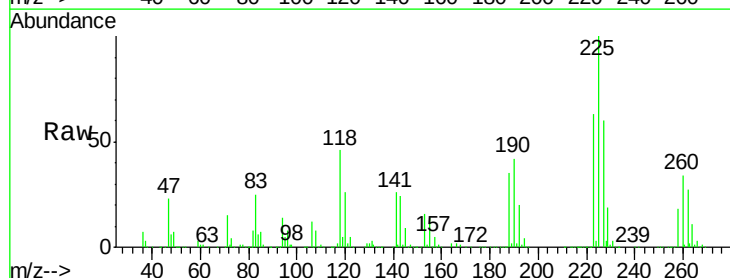
Tgt Ion:225 Resp: 1750840

Ion Ratio Lower Upper

225 100

223 63.0 49.6 74.4

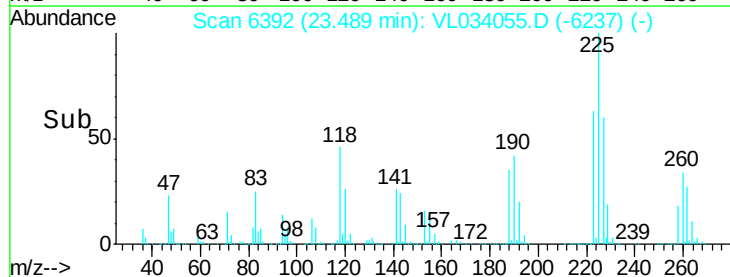
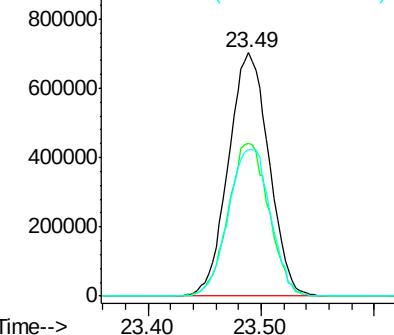
227 62.8 51.4 77.2

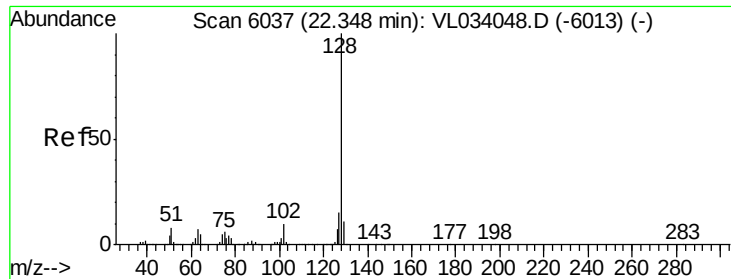


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





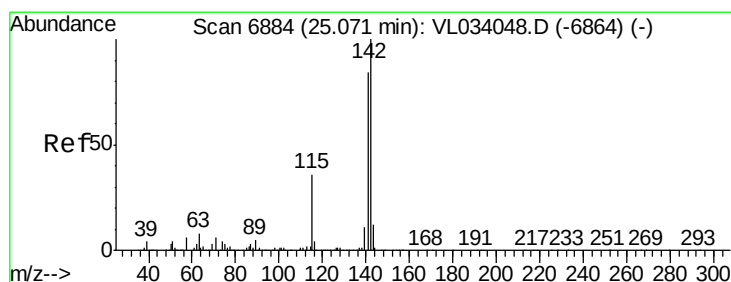
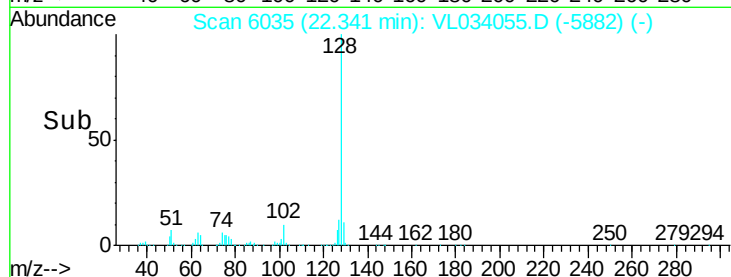
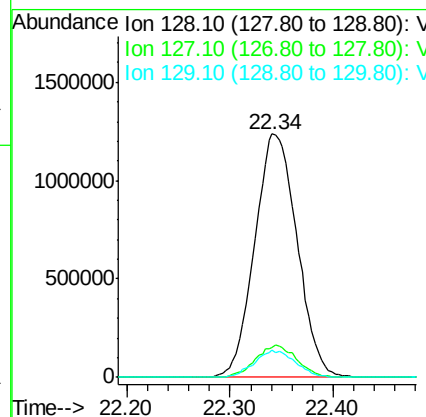
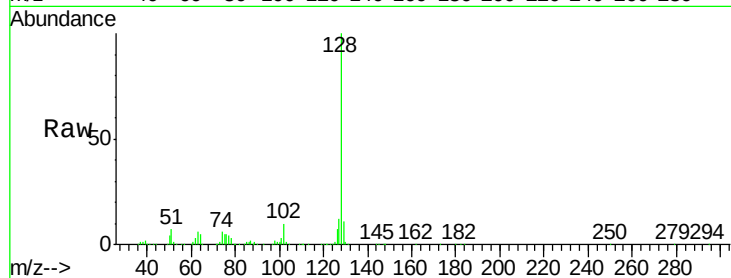
#79
Naphthalene
Concen: 8.633 ppbv
RT: 22.34 min Scan# 6035
Delta R.T. -0.01 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Instrument :
MSVOA_L
ClientSampleId :
ICVVL073019

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	11.8	17.6
129	11.4	9.1	13.7

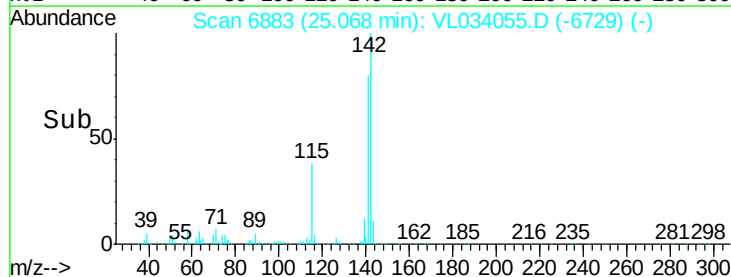
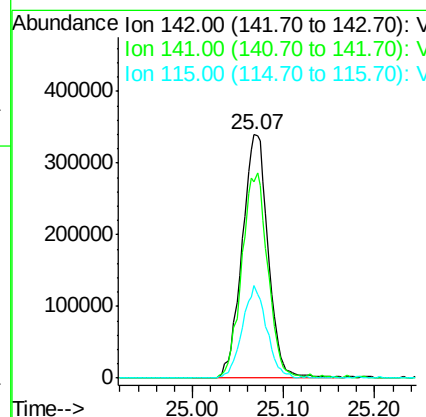
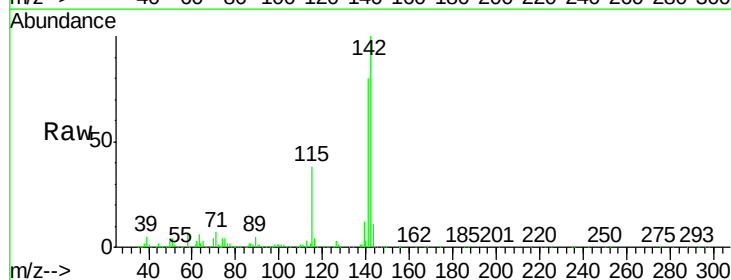
Manual Integrations
APPROVED

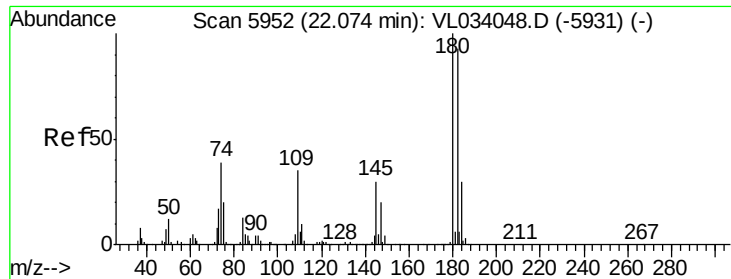
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8/2/2019 9:37:41 AM



#80
Naphthalene, 2-methyl-
Concen: 4.737 ppbv
RT: 25.07 min Scan# 6883
Delta R.T. -0.00 min
Lab File: VL034055.D
Acq: 30 Jul 2019 7:18

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.0	67.6	101.4
115	35.7	29.8	44.6





#81
 1,2,4-Trichlorobenzene
 Concen: 7.806 ppbv m
 RT: 22.07 min Scan# 5950
 Delta R.T. -0.01 min
 Lab File: VL034055.D
 Acq: 30 Jul 2019 7:18

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL073019

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.5	114.7
184	30.8	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 8/2/2019 9:37:41 AM

