

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034621.D
 Acq On : 18 Feb 2020 12:12
 Operator : SY/AP
 Sample : VL0218ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0218ABS01

Manual Integrations
 APPROVED

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 2/21/2020 3:25:25 PM

Quant Time: Feb 19 06:19:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1000225	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2052213	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2200727	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1825775	9.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	2083762	9.459	ppbv	98
3) Chlorodifluoromethane	2.95	51	1163453	9.626	ppbv	100
4) Chloromethane	3.11	50	701435	9.486	ppbv	100
5) Vinyl Chloride	3.22	62	672469	9.521	ppbv	98
6) Bromomethane	3.44	94	359716	9.791	ppbv	99
7) Chloroethane	3.52	64	253261	9.642	ppbv	96
8) Dichlorotetrafluoroethane	3.15	85	1633181	9.484	ppbv	99
9) Propene	2.97	41	453989	9.648	ppbv	99
10) Heptane	8.13	43	1220402	10.305	ppbv	100
11) Trichlorofluoromethane	3.92	101	1932999	9.659	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1303491	9.983	ppbv	99
13) Ethanol	3.57	45	103819	8.237	ppbv	99
14) Bromoethene	3.71	108	516318	10.080	ppbv	98
15) Acetone	3.82	43	1330637	9.052	ppbv	98
16) 1,3-Butadiene	3.29	39	586409	10.045	ppbv	97
17) tert-Butyl alcohol	4.27	59	1104349	10.215	ppbv	99
18) 1,1-Dichloroethene	4.27	96	571586	10.370	ppbv	94
19) Isopropyl Alcohol	3.94	45	841671	9.811	ppbv	100
20) Methylene Chloride	4.32	84	507961	9.075	ppbv	97
21) Allyl Chloride	4.39	41	933345	10.223	ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	594611	10.300	ppbv	94
23) Vinyl Acetate	5.06	43	1686491	10.056	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1354755	9.675	ppbv	99
25) Ethyl Acetate	5.67	43	2282502	9.591	ppbv	99
26) Hexane	5.68	57	981769	9.849	ppbv	98
27) Carbon Disulfide	4.53	76	1483199	11.027	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1735514	10.209	ppbv	100
29) Chloroform	5.75	83	1685853	9.564	ppbv	97
30) Cyclohexane	7.14	84	760023	10.289	ppbv	100
31) cis-1,2-Dichloroethene	5.54	61	1054668	10.183	ppbv	98
32) 1,1,1-Trichloroethane	6.51	97	1753222	9.263	ppbv	100
34) 2-Butanone	5.23	43	1437364	9.646	ppbv	99
35) Carbon Tetrachloride	7.02	117	1909248	9.731	ppbv	95
36) Benzene	6.90	78	1849304	10.133	ppbv	96
37) 1,2-Dichloroethane	6.31	62	1458264	9.577	ppbv	100
38) Trichloroethene	7.85	130	797076	10.361	ppbv	98
39) 1,2-Dichloropropane	7.62	63	739681	9.777	ppbv	97
40) 1,4-Dioxane	7.84	88	291037	10.007	ppbv #	1
41) Tetrahydrofuran	6.04	42	772445	9.937	ppbv	98
42) Bromodichloromethane	7.81	83	1871133	9.984	ppbv	100
43) Methyl Methacrylate	8.02	69	780270	10.630	ppbv	98

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Manual Integrations
 APPROVED

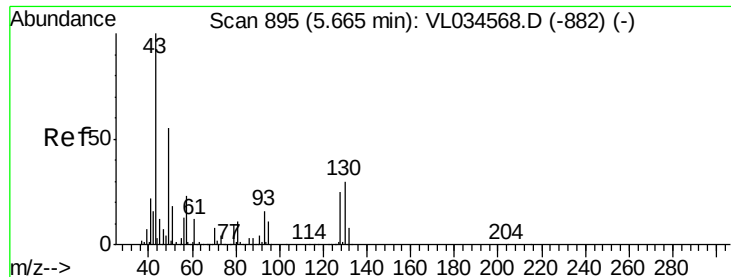
MMDadoda
 2/21/2020 3:25:25 PM

Quant Time: Feb 19 06:19:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.88	57	3289910	9.936	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1116884	11.620	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	1233767	11.293	ppbv	95
47) 1,1,2-Trichloroethane	9.49	97	814538	9.940	ppbv	97
48) Dibromochloromethane	10.33	129	1590378	10.592	ppbv	100
49) Bromoform	13.08	173	1434189	10.879	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2133624	10.041	ppbv	100
51) 2-Hexanone	10.15	43	1756964	10.503	ppbv #	100
52) Tetrachloroethene	11.25	164	728216	9.933	ppbv	96
53) Toluene	9.82	91	2179210	10.870	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1246988	10.155	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.16	131	1051777	9.681	ppbv	96
57) Chlorobenzene	12.17	112	1748187	9.654	ppbv	99
58) Ethyl Benzene	12.74	91	3045124	10.340	ppbv	96
59) m/p-Xylene	13.03	91	5068358m	19.469	ppbv	
60) o-Xylene	13.73	91	2590051	9.907	ppbv	99
61) Styrene	13.56	104	1868583	10.719	ppbv	99
62) Isopropylbenzene	14.70	105	3340716	9.861	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.71	83	1799949	8.902	ppbv	99
64) n-propylbenzene	15.60	120	864094	9.914	ppbv	95
65) tert-Butylbenzene	16.79	119	3018982	9.836	ppbv	99
66) Benzyl Chloride	17.03	91	1459379	11.339	ppbv	100
67) sec-Butylbenzene	17.33	105	4113775	9.752	ppbv	99
69) p-Isopropyltoluene	17.69	119	3365042	9.825	ppbv	100
70) n-Butylbenzene	18.59	91	3550254	9.765	ppbv	99
71) 2-Chlorotoluene	15.49	91	2580157	10.033	ppbv	99
72) 4-Ethyltoluene	15.88	105	2899061	10.095	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2790961	9.946	ppbv	98
74) 1,2,4-Trimethylbenzene	16.80	105	2922671	9.408	ppbv #	91
75) 1,3-Dichlorobenzene	17.04	146	1639618	9.166	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	1640382	9.305	ppbv	100
77) 1,2-Dichlorobenzene	17.86	146	1555641	9.053	ppbv	100
78) Hexachloro-1,3-Butadiene	23.42	225	1462607	8.901	ppbv	100
79) Naphthalene	22.26	128	2463197	10.072	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	1246598	13.249	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	1518943	10.074	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 49 Resp: 1000225

Ion Ratio Lower Upper

49 100

128 46.6 22.7 68.1

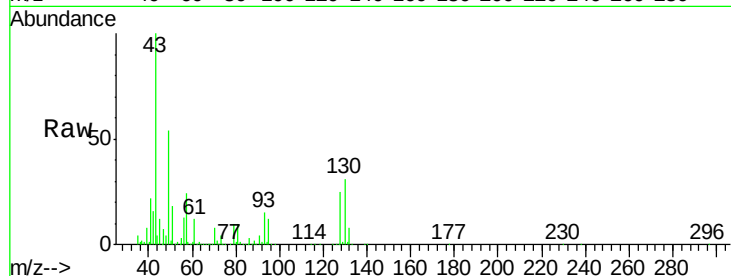
130 58.3 28.6 85.8

Manual Integrations

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.66

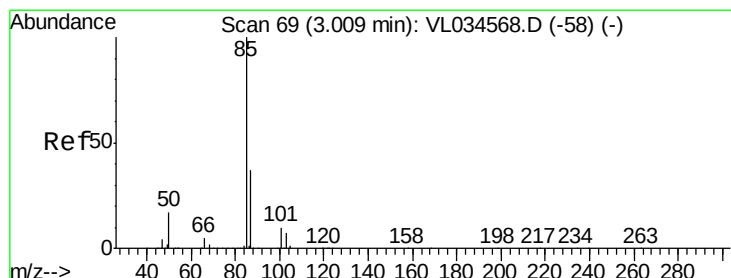
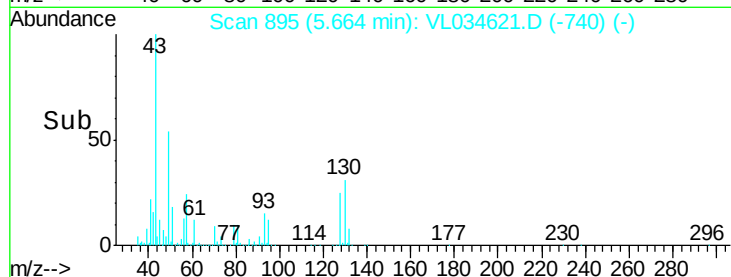
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 9.459 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL034621.D

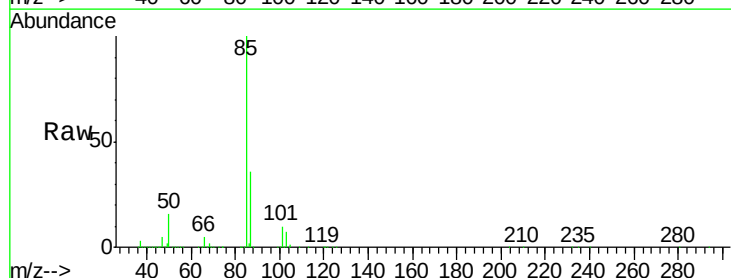
Acq: 18 Feb 2020 12:12

Tgt Ion: 85 Resp: 2083762

Ion Ratio Lower Upper

85 100

87 35.5 29.5 44.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.01

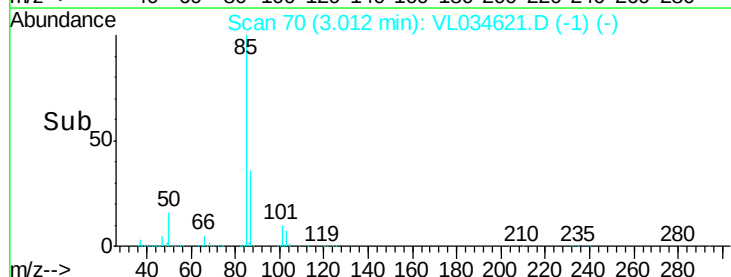
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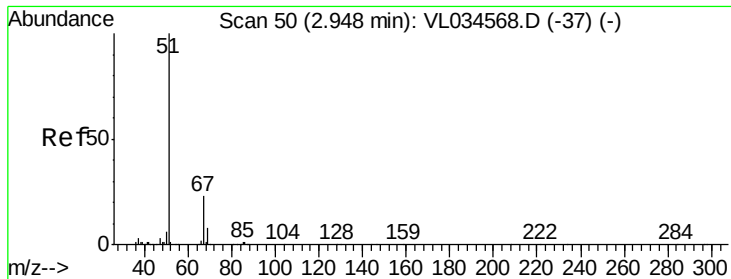
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500000

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Time-->





#3

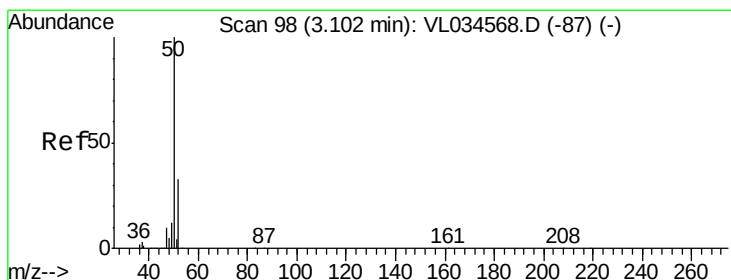
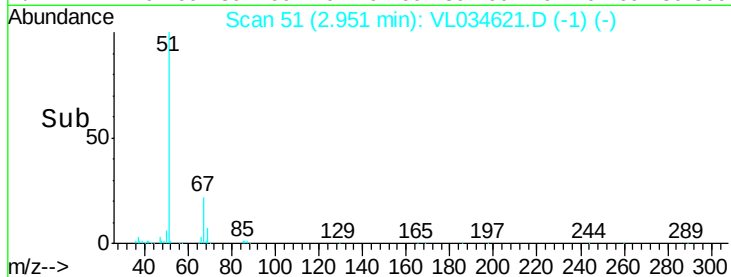
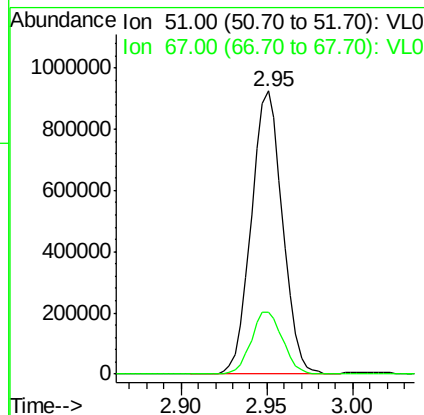
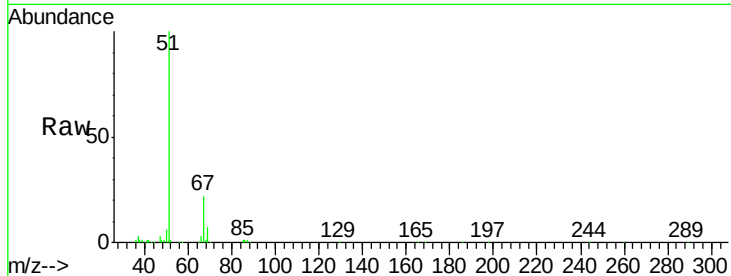
Chlorodifluoromethane
Concen: 9.626 ppbv
RT: 2.95 min Scan# 51
Delta R.T. 0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampled :
VL0218ABS01

Tot Ion: 51 Resp: 1163453
Ion Ratio Lower Upper
51 100
67 22.1 17.8 26.8

Manual Integrations
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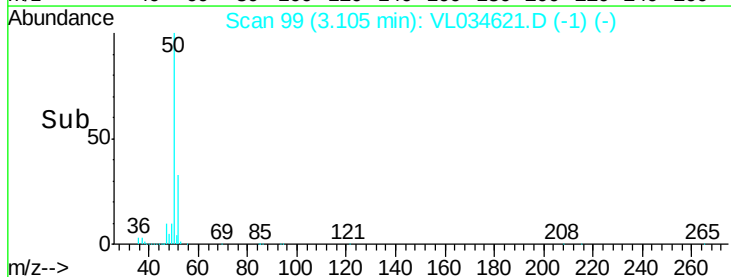
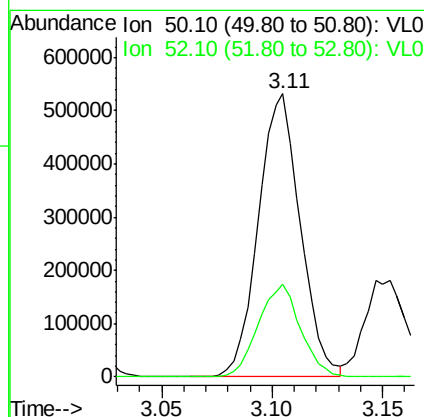
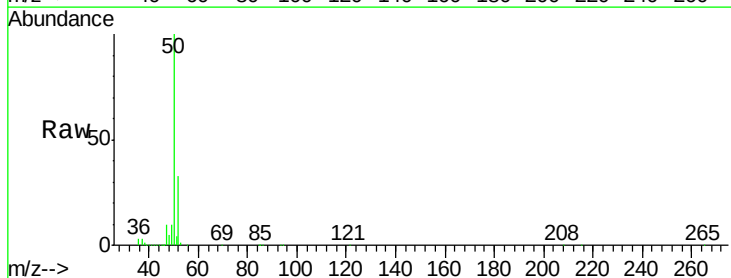
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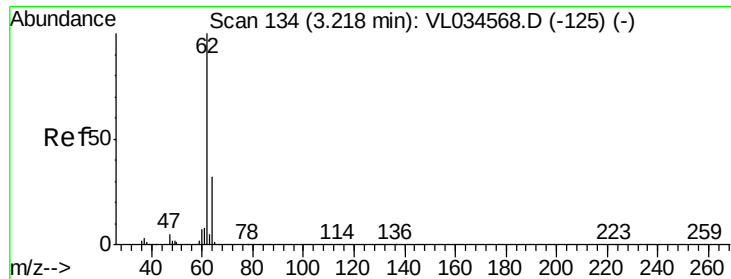


#4

Chloromethane
Concen: 9.486 ppbv
RT: 3.11 min Scan# 99
Delta R.T. 0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion: 50 Resp: 701435
Ion Ratio Lower Upper
50 100
52 32.9 26.6 39.8





#5

Vinyl Chloride

Concen: 9.521 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 62 Resp: 672469

Ion Ratio Lower Upper

62 100

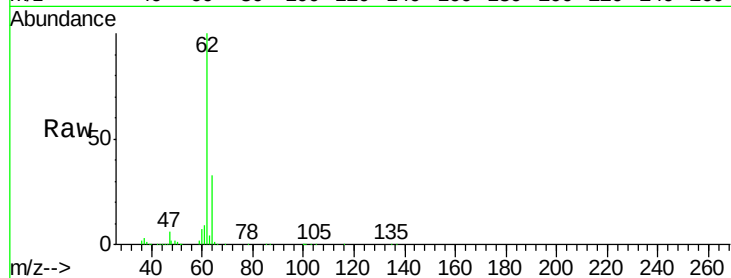
64 33.2 25.8 38.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.22

500000

400000

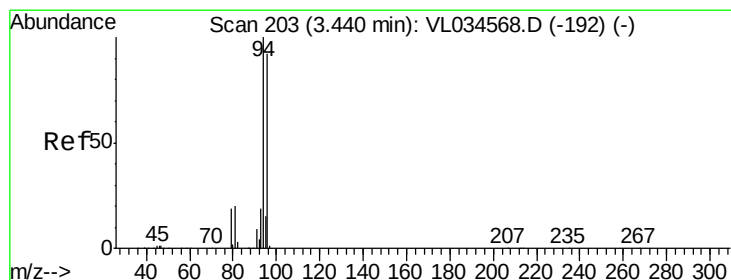
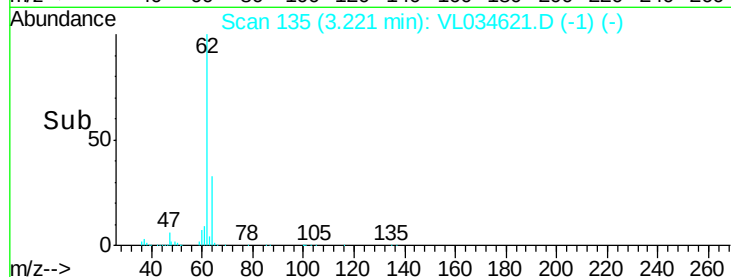
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.791 ppbv

RT: 3.44 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL034621.D

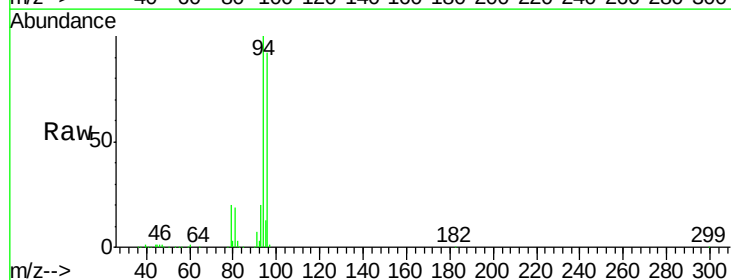
Acq: 18 Feb 2020 12:12

Tgt Ion: 94 Resp: 359716

Ion Ratio Lower Upper

94 100

96 91.4 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.44

300000

250000

200000

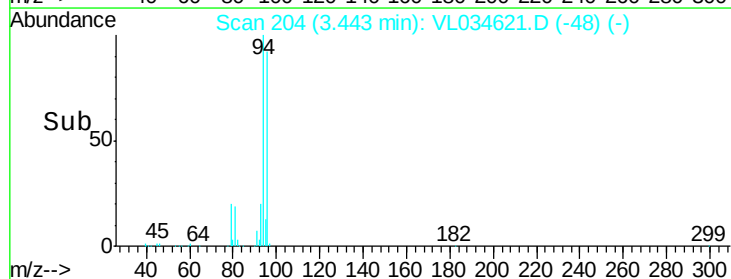
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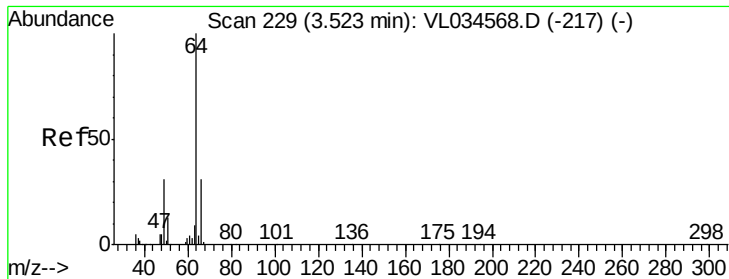
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50000

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Time-->





#7

Chloroethane

Concen: 9.642 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 64 Resp: 253261

Ion Ratio Lower Upper

64 100

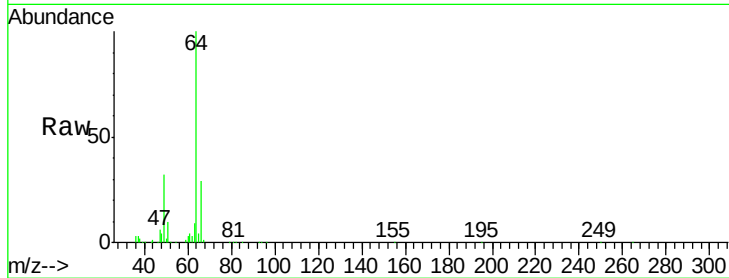
66 29.2 25.0 37.4

Manual Integrations

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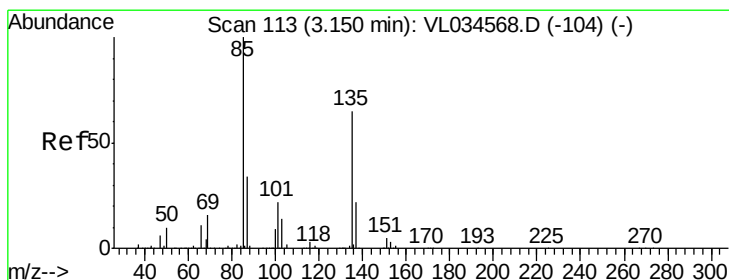
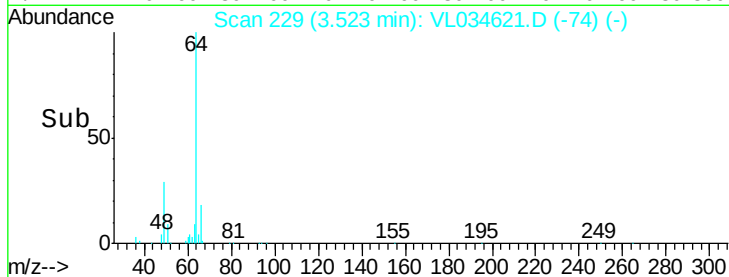
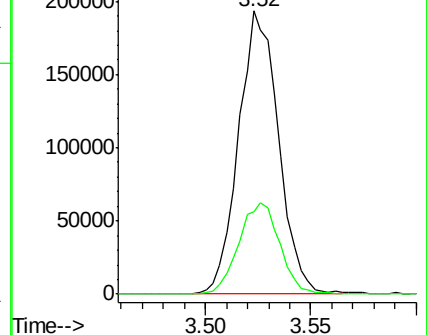
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.484 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL034621.D

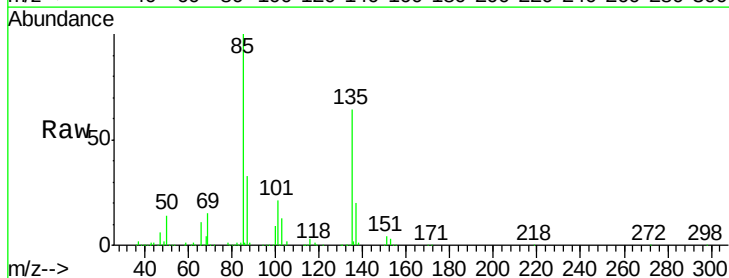
Acq: 18 Feb 2020 12:12

Tgt Ion: 85 Resp: 1633181

Ion Ratio Lower Upper

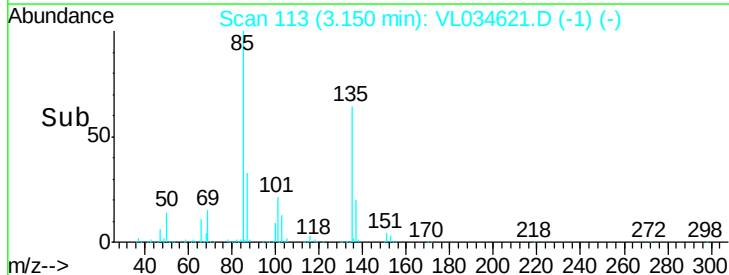
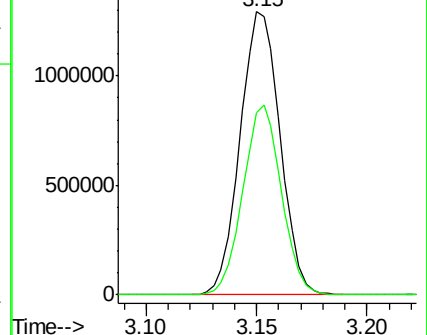
85 100

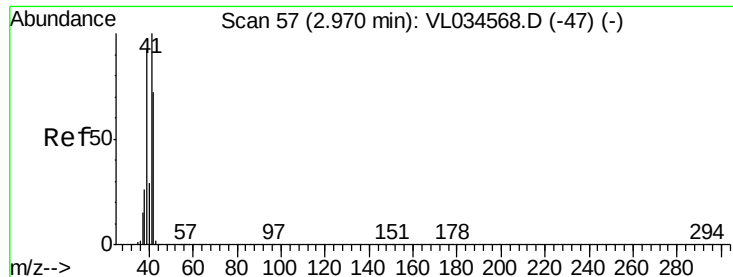
135 64.7 52.2 78.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





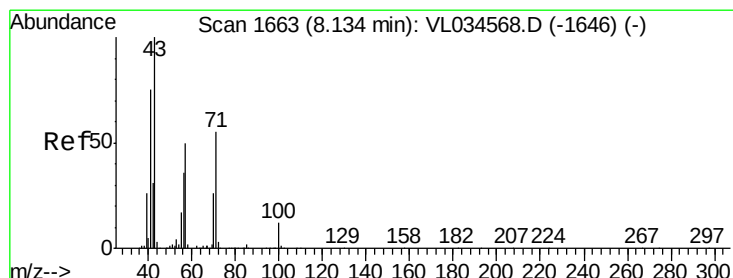
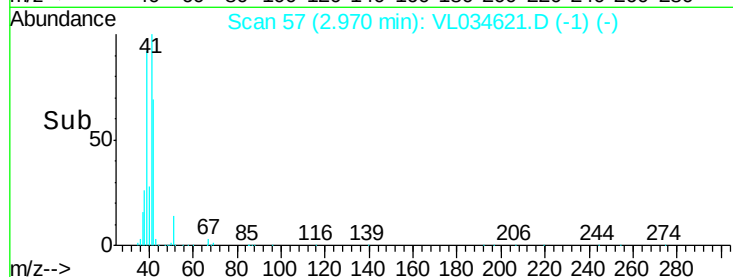
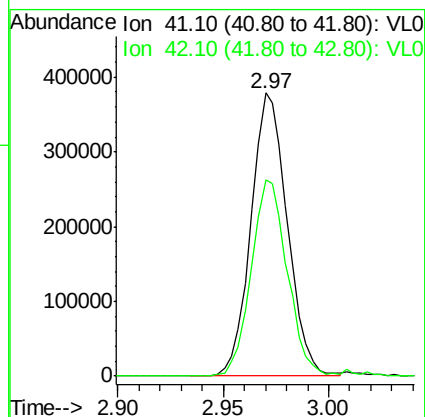
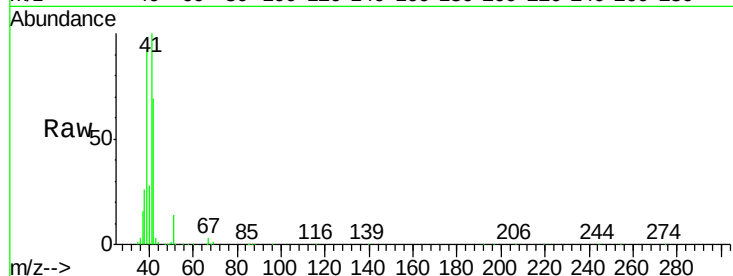
#9
 Propene
 Concen: 9.648 ppbv
 RT: 2.97 min Scan# 57
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion: 41 Resp: 453989
 Ion Ratio Lower Upper
 41 100
 42 70.0 57.0 85.4

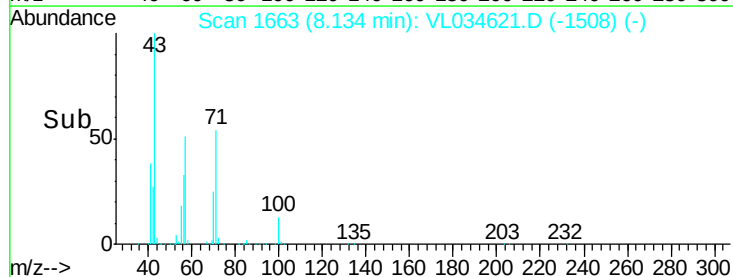
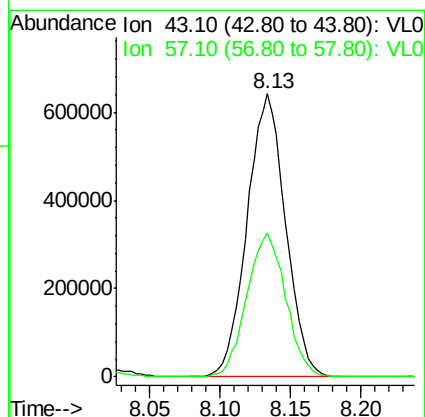
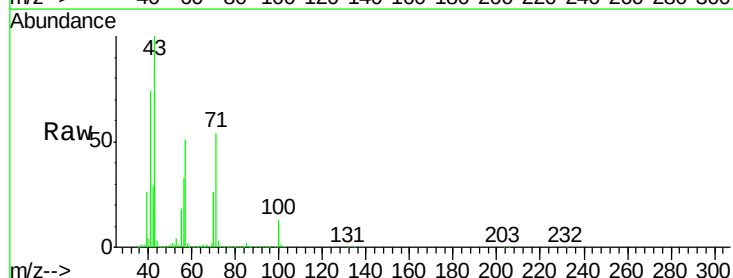
Manual Integrations
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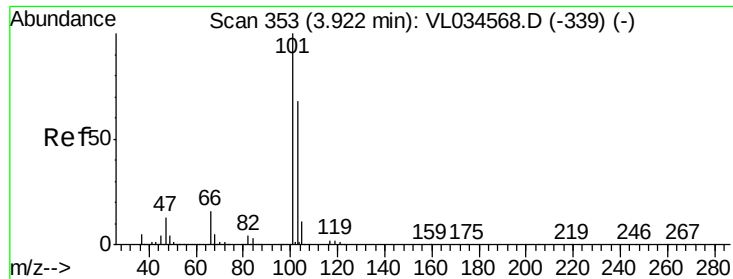
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#10
 Heptane
 Concen: 10.305 ppbv
 RT: 8.13 min Scan# 1663
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion: 43 Resp: 1220402
 Ion Ratio Lower Upper
 43 100
 57 51.4 41.2 61.8





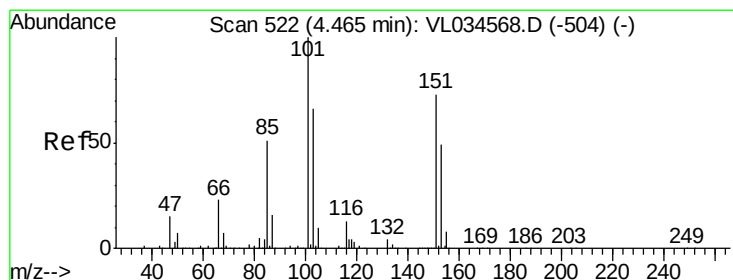
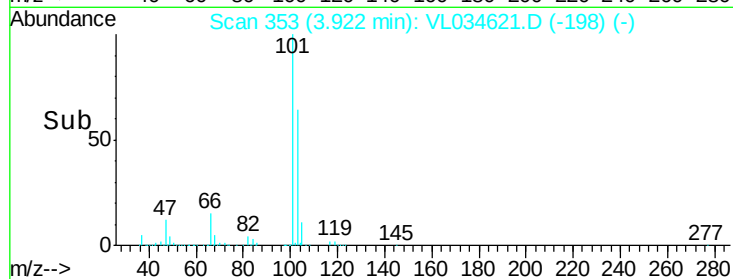
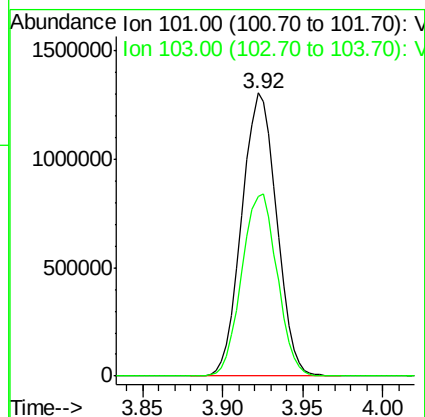
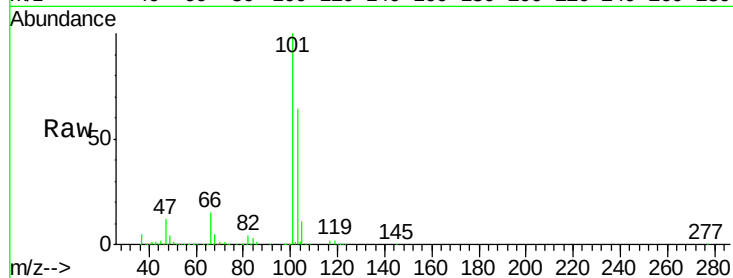
#11
 Trichlorofluoromethane
 Concen: 9.659 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion:101 Resp: 1932999
 Ion Ratio Lower Upper
 101 100
 103 63.7 54.4 81.6

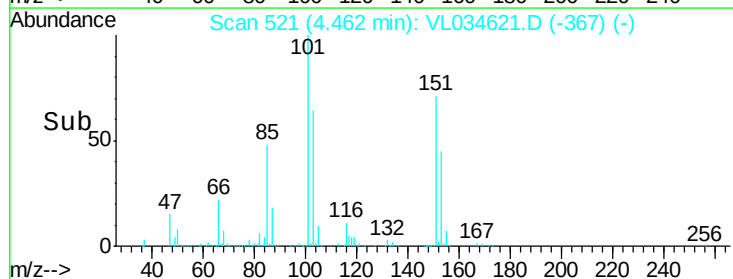
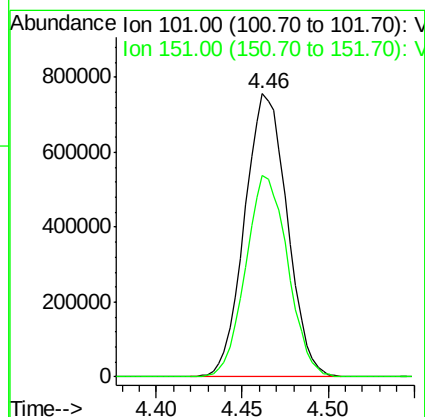
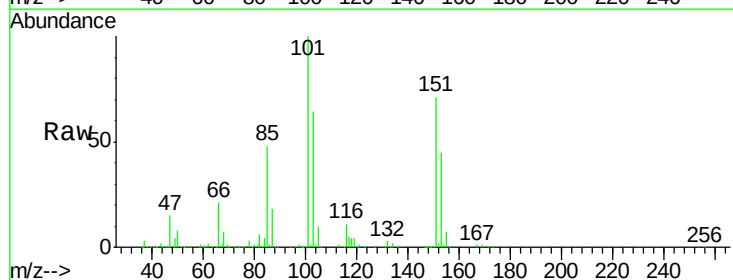
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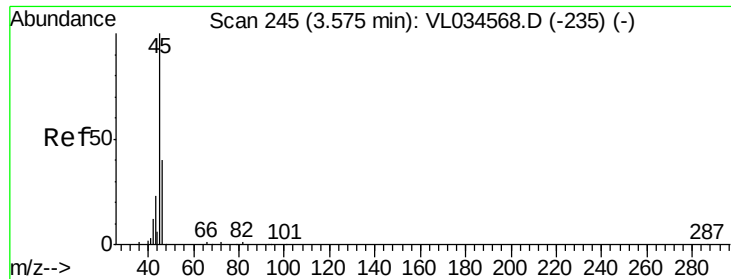
MMDadoda
 2/21/2020 3:25:25 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.983 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion:101 Resp: 1303491
 Ion Ratio Lower Upper
 101 100
 151 70.6 57.0 85.6





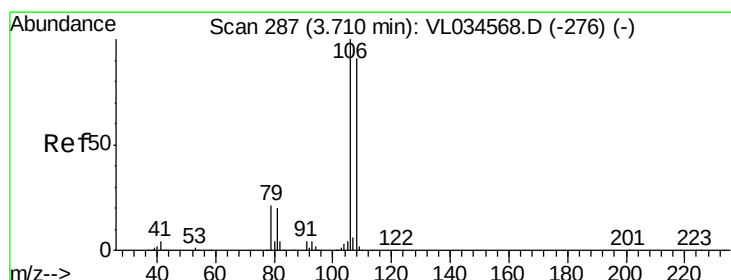
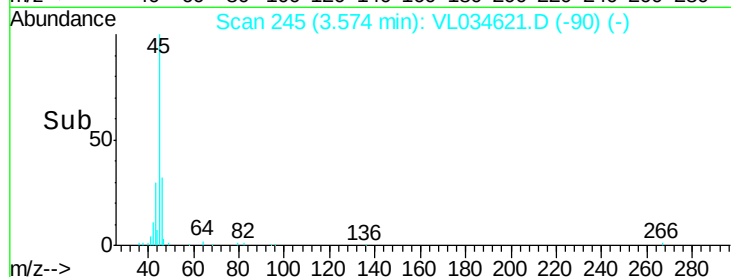
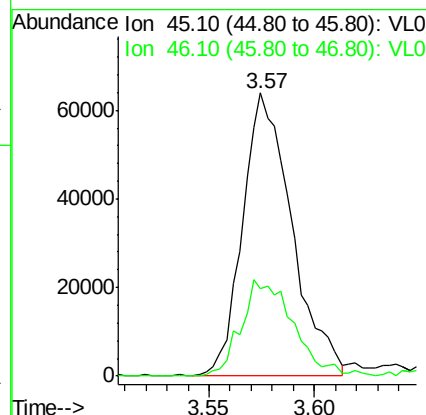
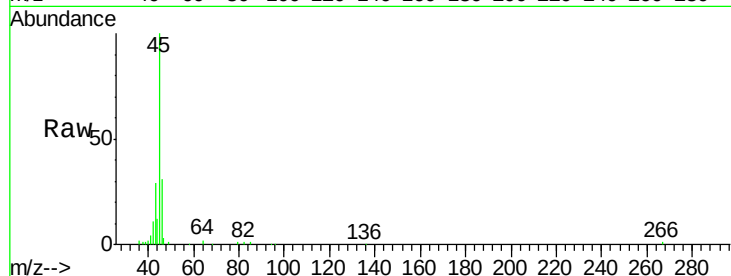
#13
Ethanol
Concen: 8.237 ppbv
RT: 3.57 min Scan# 245
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion: 45 Resp: 103819
Ion Ratio Lower Upper
45 100
46 36.1 14.8 59.2

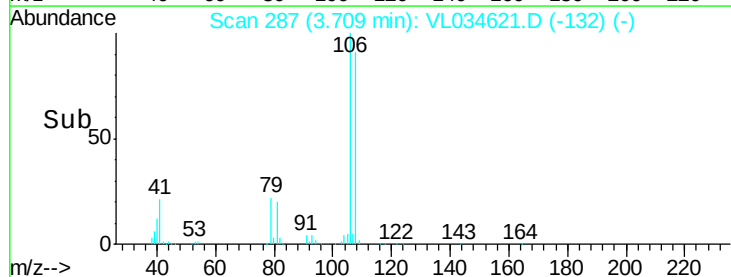
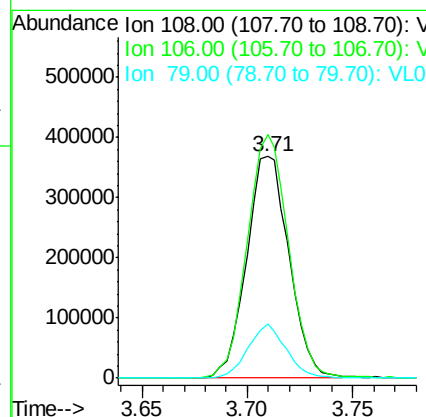
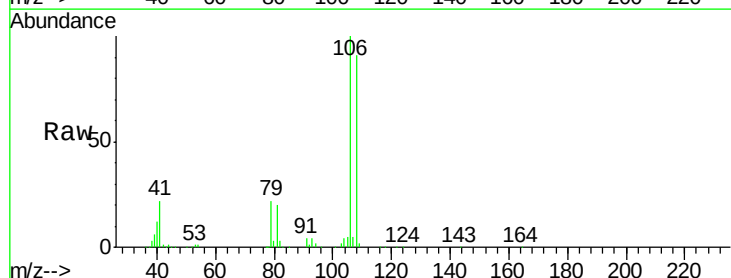
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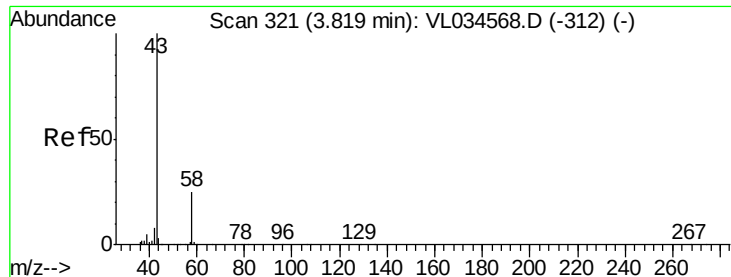
MMDadoda
2/21/2020 3:25:25 PM



#14
Bromoethene
Concen: 10.080 ppbv
RT: 3.71 min Scan# 287
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion: 108 Resp: 516318
Ion Ratio Lower Upper
108 100
106 107.7 84.6 127.0
79 22.4 18.2 27.2





#15

Acetone

Concen: 9.052 ppbv

RT: 3.82 min Scan# 322

Delta R.T. 0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Tot Ion: 43 Resp: 1330637

Ion Ratio Lower Upper

43 100

58 26.4 20.3 30.5

Instrument :

MSVOA_L

ClientSampleId :

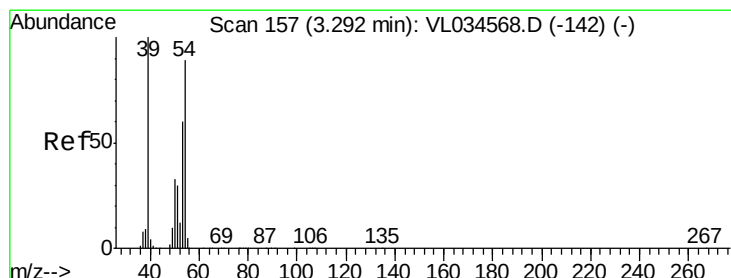
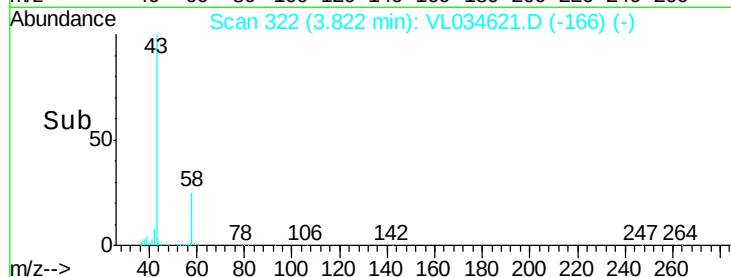
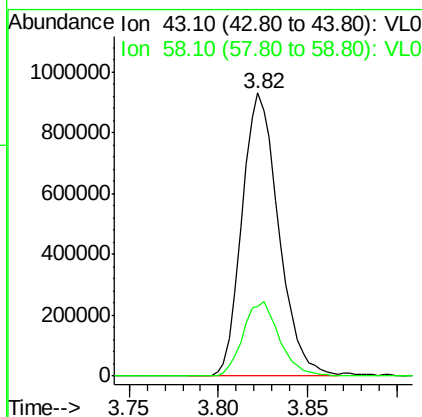
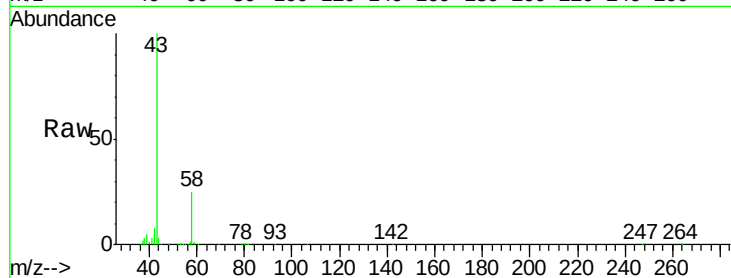
VL0218ABS01

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#16

1,3-Butadiene

Concen: 10.045 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.00 min

Lab File: VL034621.D

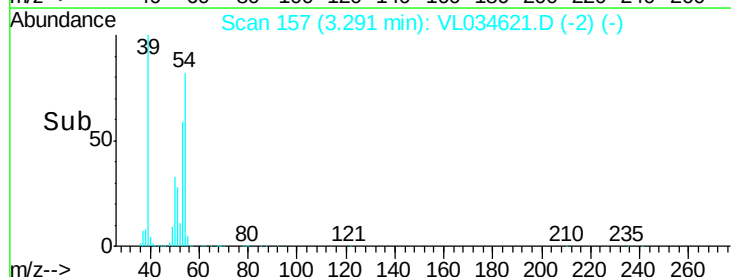
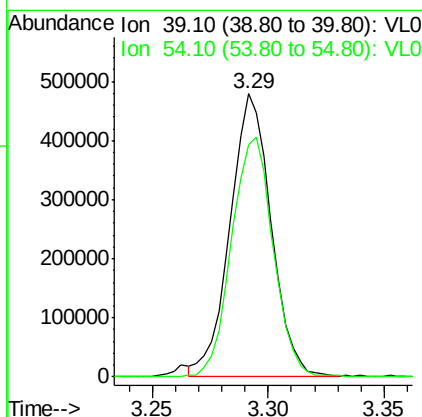
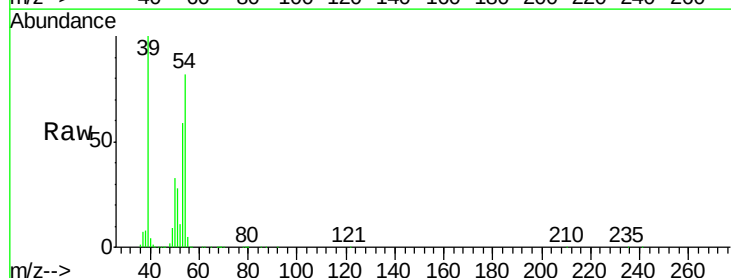
Acq: 18 Feb 2020 12:12

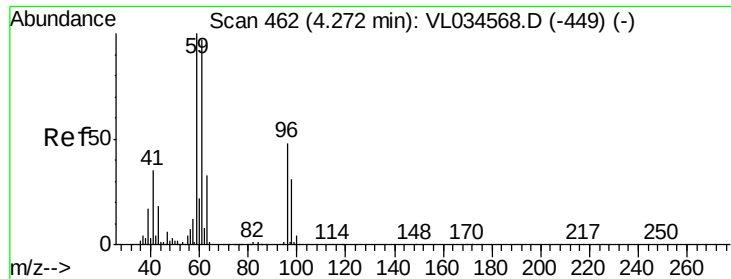
Tgt Ion: 39 Resp: 586409

Ion Ratio Lower Upper

39 100

54 86.3 66.7 100.1





#17

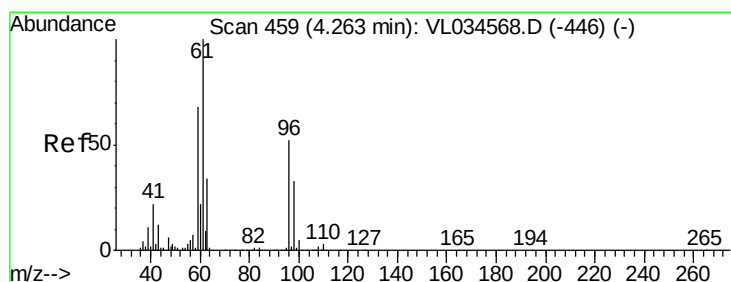
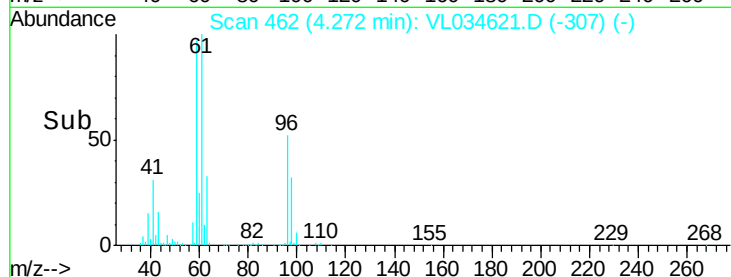
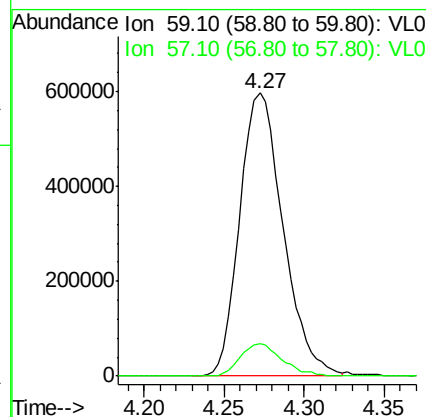
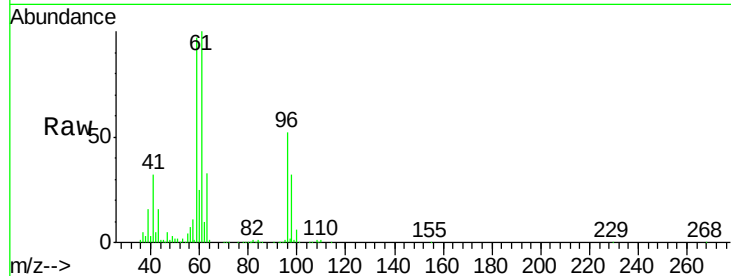
tert-Butyl alcohol
 Concen: 10.215 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion: 59 Resp: 1104349
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.7 13.1

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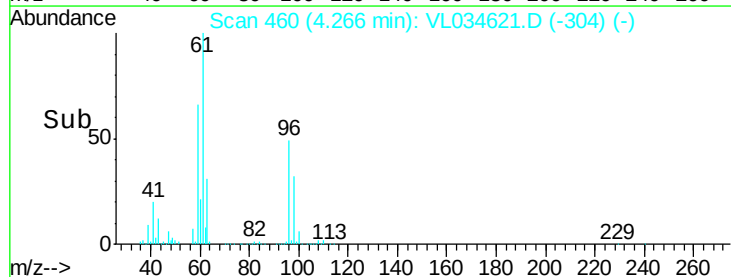
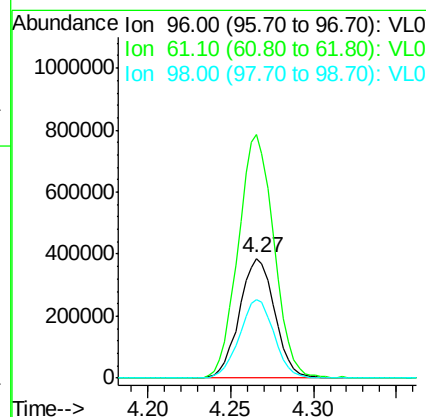
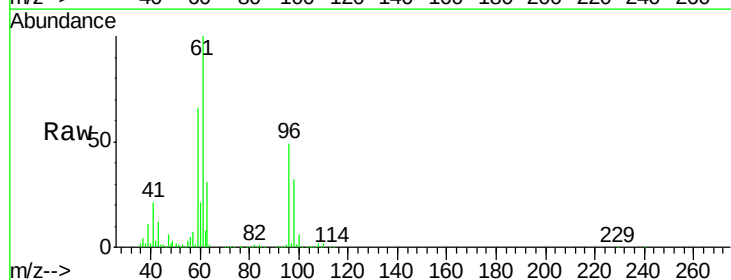
MMDadoda
 2/21/2020 3:25:25 PM

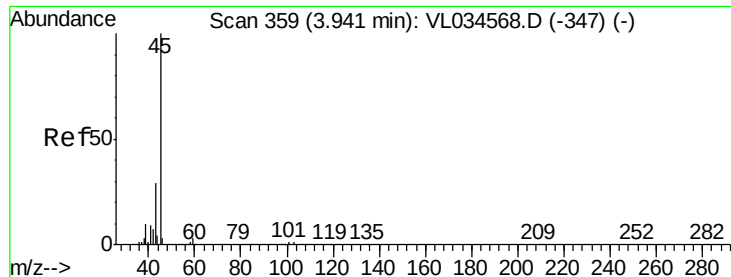


#18

1,1-Dichloroethene
 Concen: 10.370 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. 0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion: 96 Resp: 571586
 Ion Ratio Lower Upper
 96 100
 61 203.7 154.5 231.7
 98 65.2 50.3 75.5





#19

Isopropyl Alcohol

Concen: 9.811 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleID :

VL0218ABS01

Tot Ion: 45 Resp: 841671

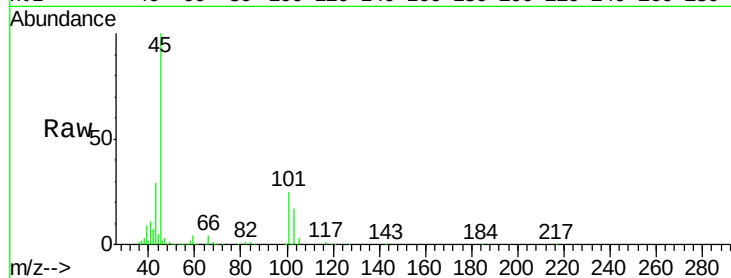
Ion Ratio Lower Upper

45 100

58 2.2 1.7 2.5

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

500000

400000

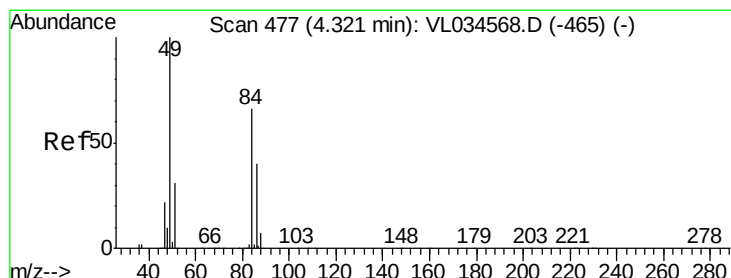
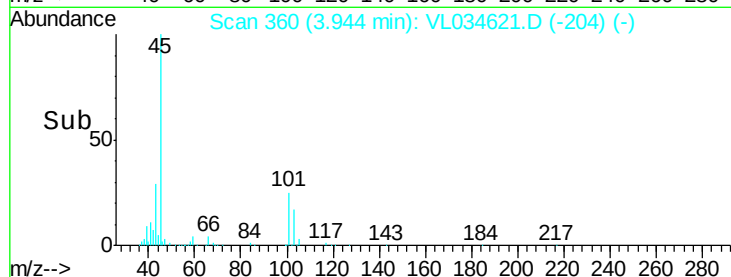
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.075 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Tgt Ion: 84 Resp: 507961

Ion Ratio Lower Upper

84 100

49 155.5 122.4 183.6

51 42.8 38.6 57.8

86 63.4 49.0 73.6

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

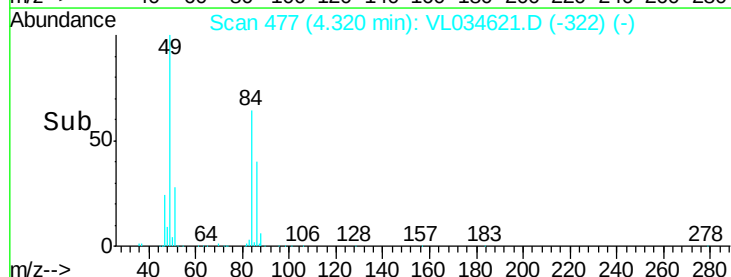
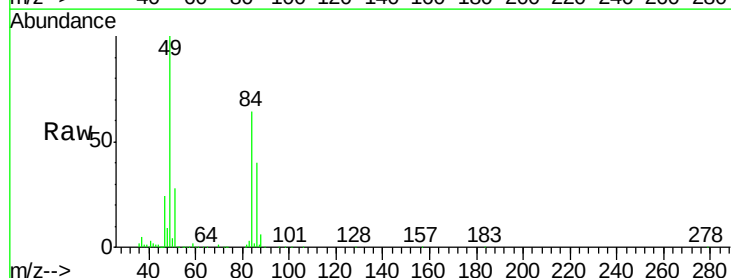
600000

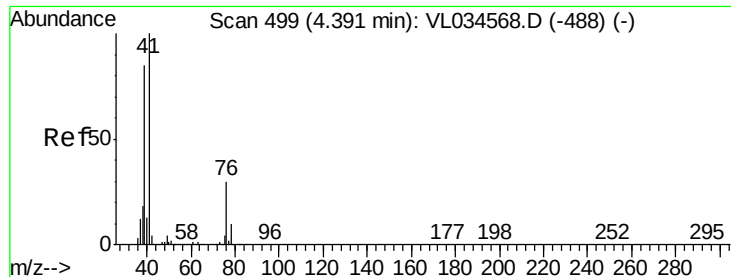
400000

200000

0

Time-->





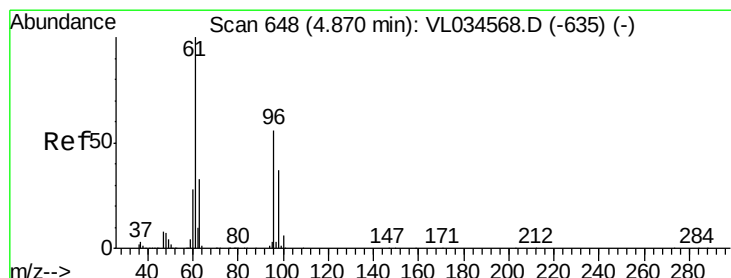
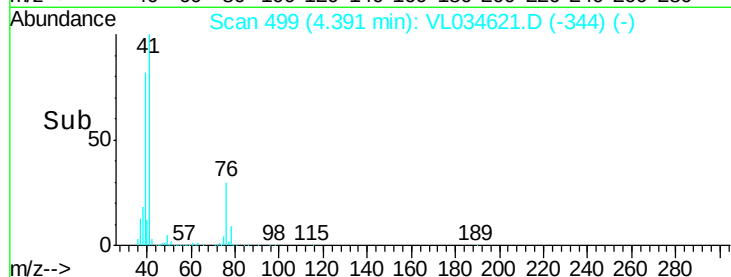
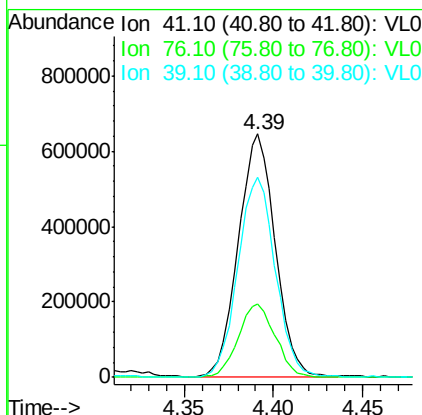
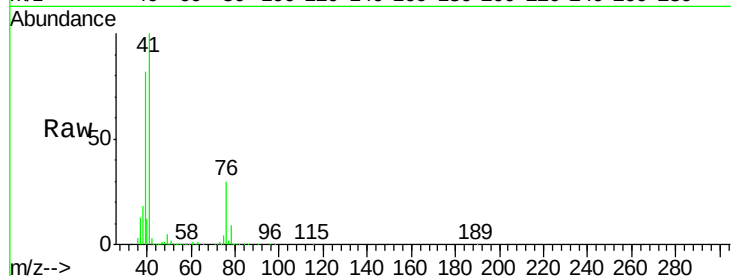
#21
Allvl Chloride
Concen: 10.223 ppbv
RT: 4.39 min Scan# 499
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.5	24.2	36.2
39	83.8	68.3	102.5

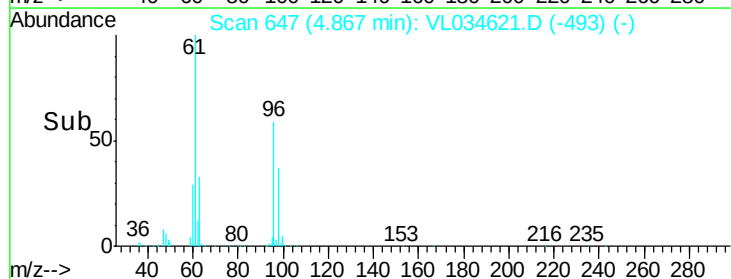
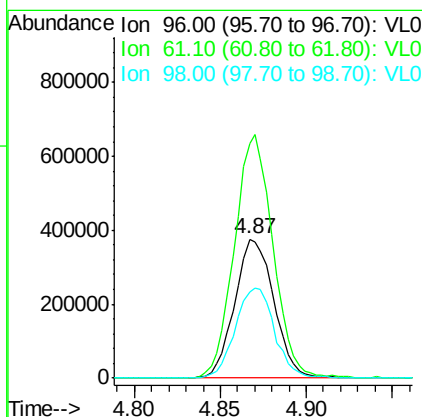
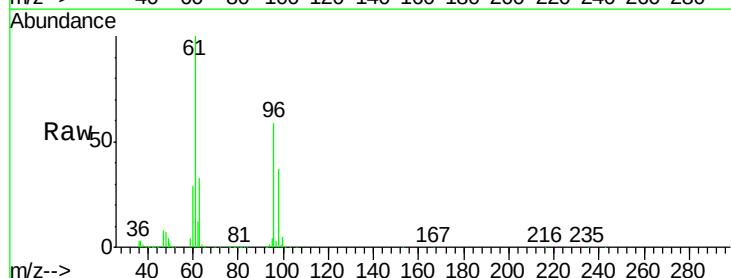
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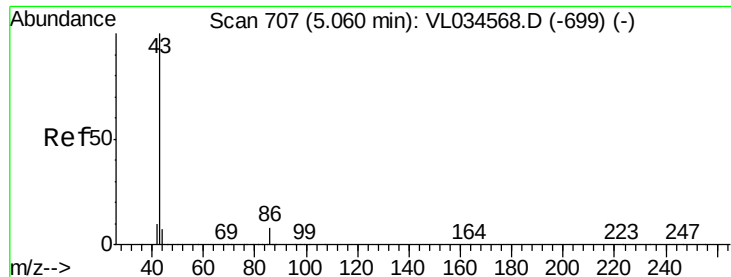
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#22
trans-1,2-Dichloroethene
Concen: 10.300 ppbv
RT: 4.87 min Scan# 647
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.0	141.9	212.9
98	61.9	53.1	79.7





#23

Vinyl Acetate

Concen: 10.056 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 43 Resp: 1686491

Ion Ratio Lower Upper

43 100

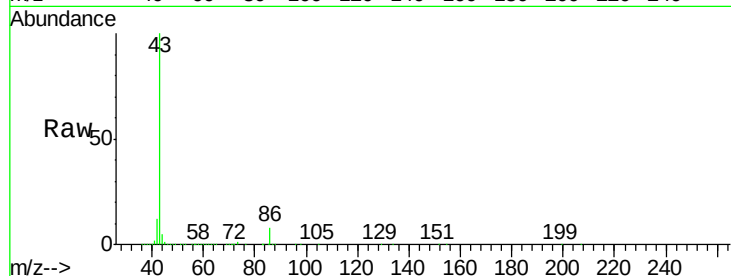
86 7.6 5.9 8.9

42 11.5 8.8 13.2

44 5.3 5.0 7.6

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2/21/2020 3:25:25 PM

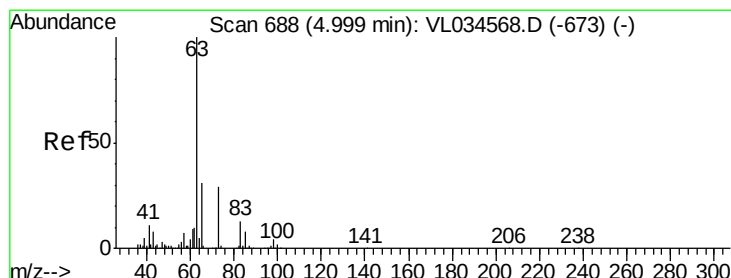
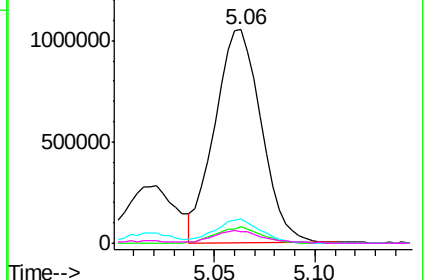
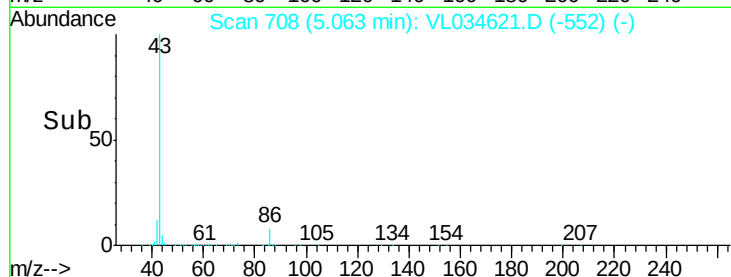


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.675 ppbv

RT: 5.00 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

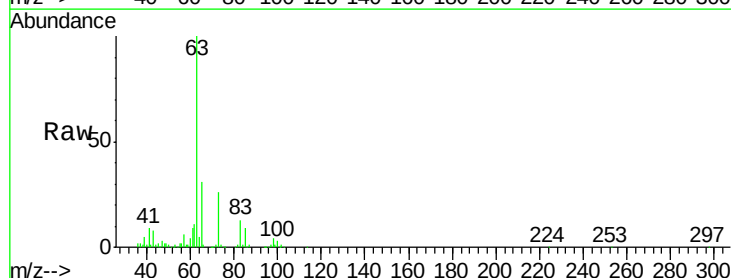
Tgt Ion: 63 Resp: 1354755

Ion Ratio Lower Upper

63 100

98 4.0 2.1 6.2

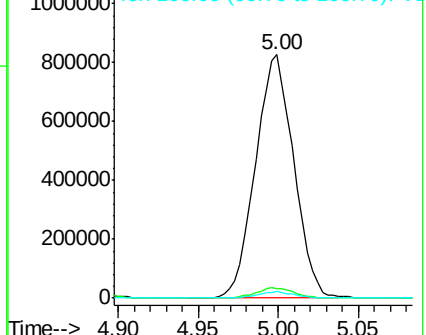
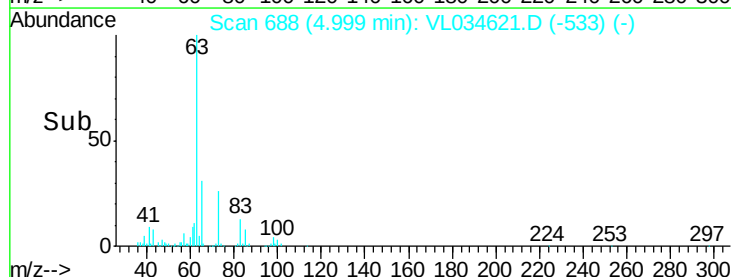
100 2.6 1.1 3.5

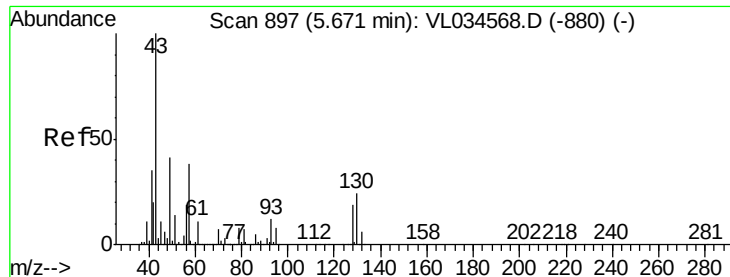


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.591 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 43 Resp: 2282502

Ion Ratio Lower Upper

43 100

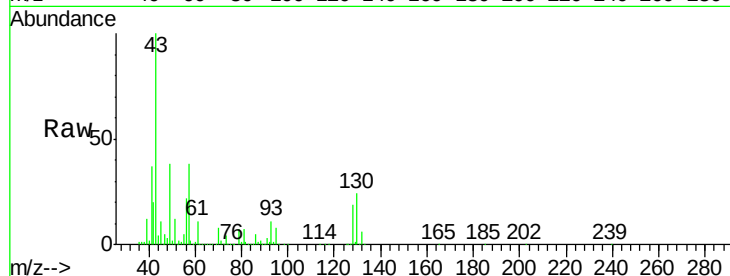
45 10.3 8.5 12.7

61 10.0 7.8 11.6

70 7.5 5.8 8.8

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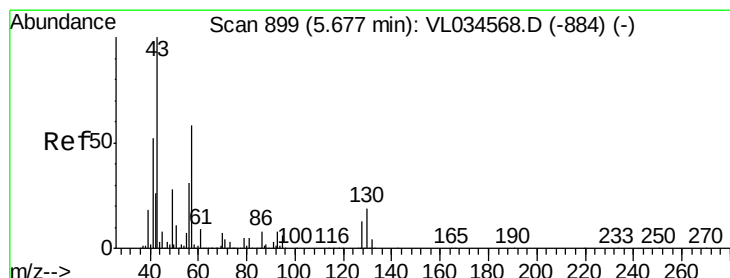
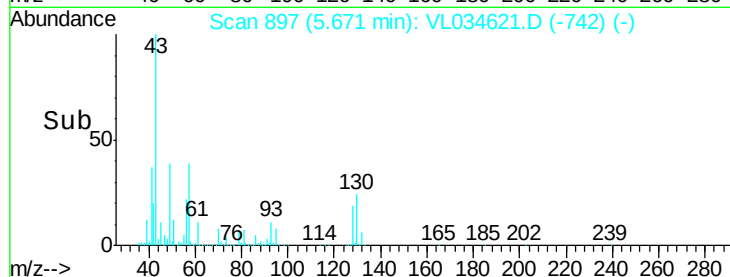
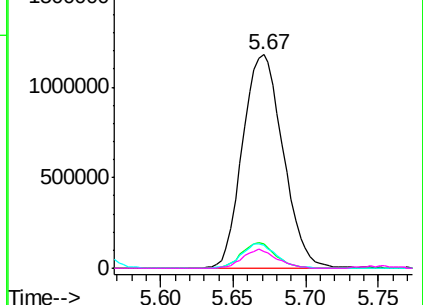


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.849 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Tgt Ion: 57 Resp: 981769

Ion Ratio Lower Upper

57 100

41 93.7 76.2 114.2

43 233.3 189.9 284.9

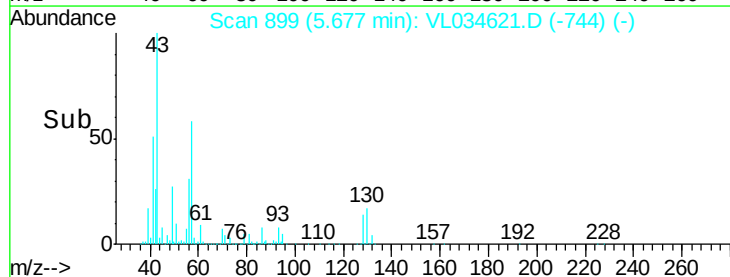
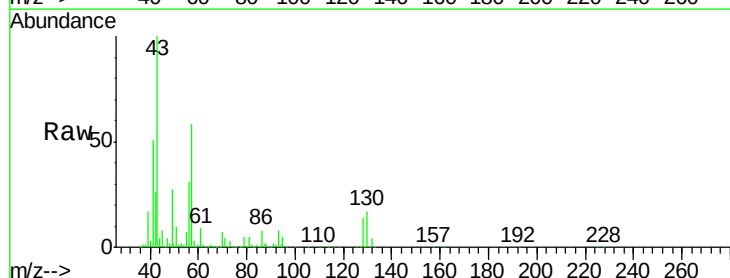
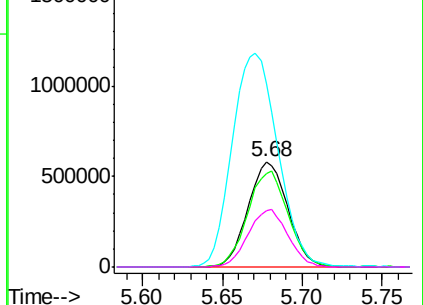
56 54.5 43.6 65.4

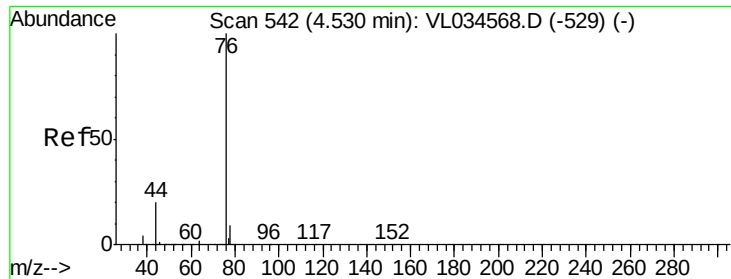
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.027 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 76 Resp: 1483199

Ion Ratio Lower Upper

76 100

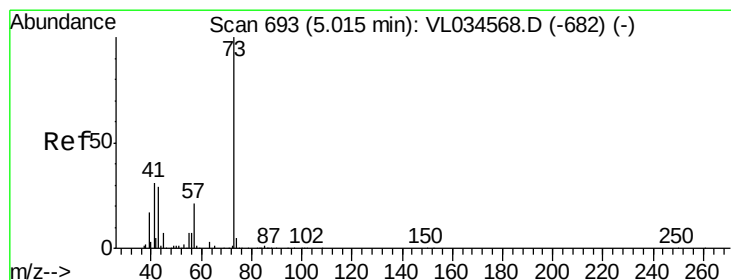
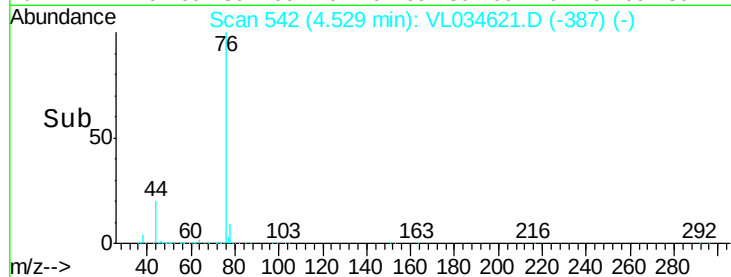
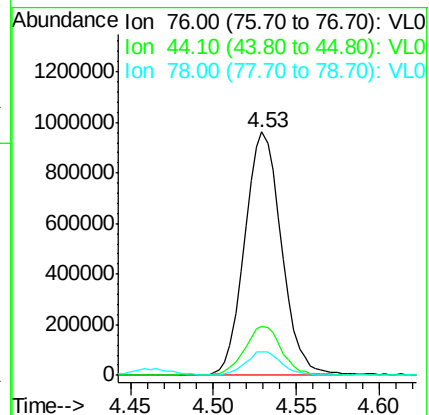
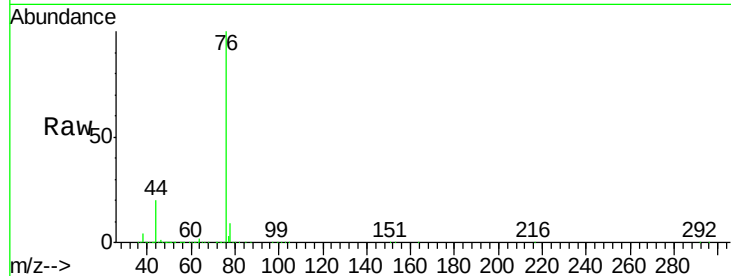
44 19.9 16.3 24.5

78 9.5 7.4 11.2

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#28

Methyl tert-Butyl Ether

Concen: 10.209 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.00 min

Lab File: VL034621.D

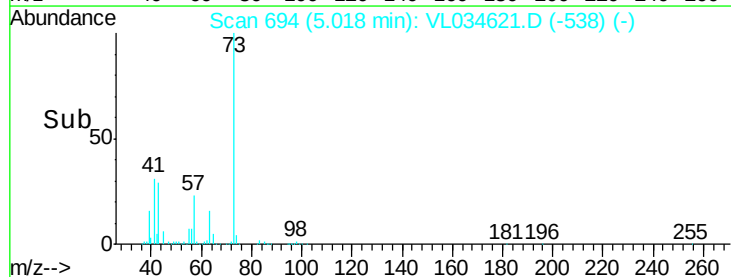
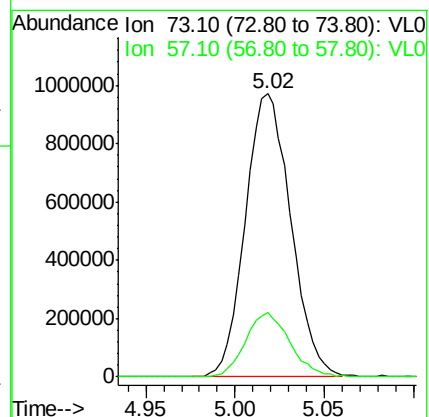
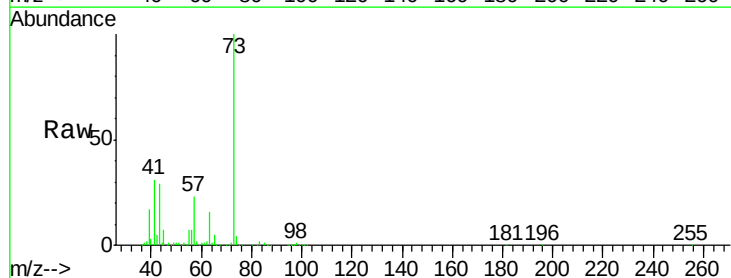
Acq: 18 Feb 2020 12:12

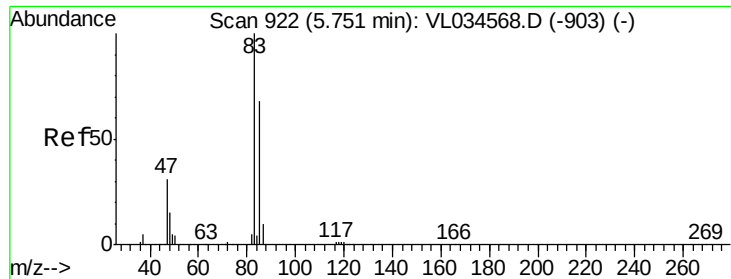
Tgt Ion: 73 Resp: 1735514

Ion Ratio Lower Upper

73 100

57 22.3 17.9 26.9





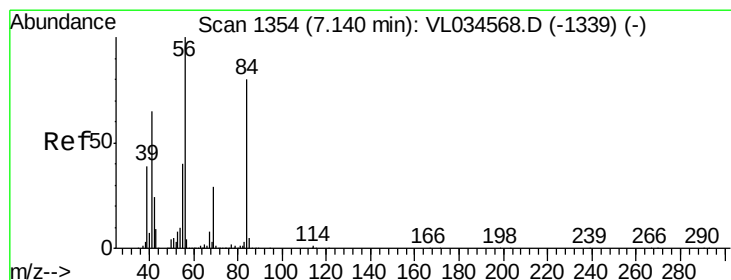
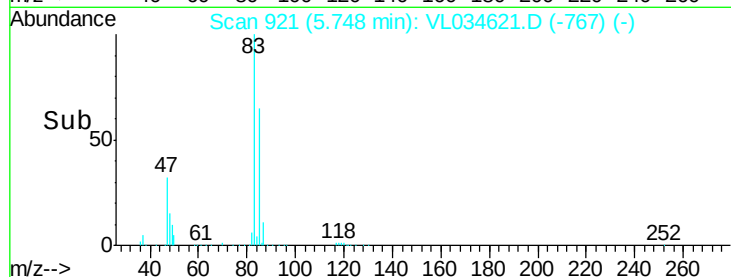
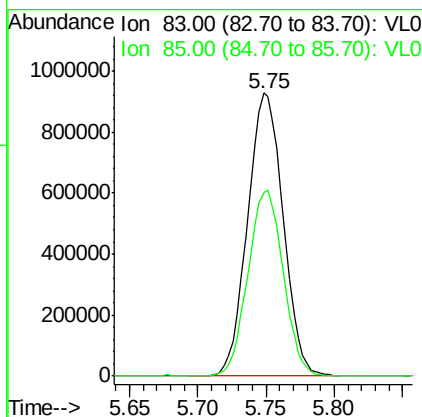
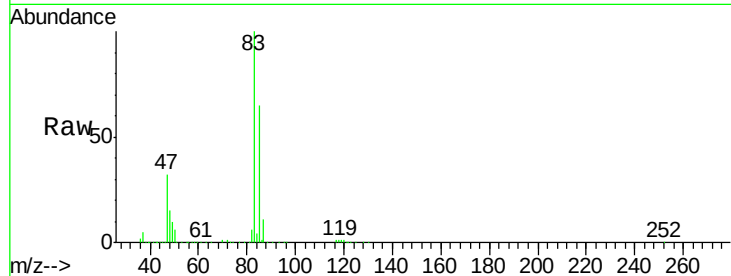
#29
Chloroform
Concen: 9.564 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion: 83 Resp: 1685853
Ion Ratio Lower Upper
83 100
85 64.9 54.0 81.0

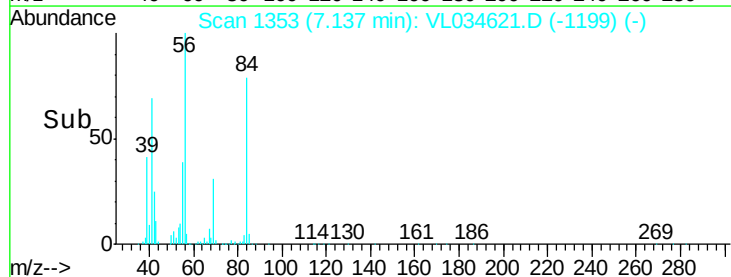
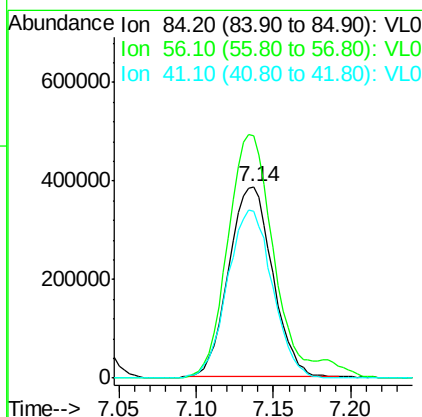
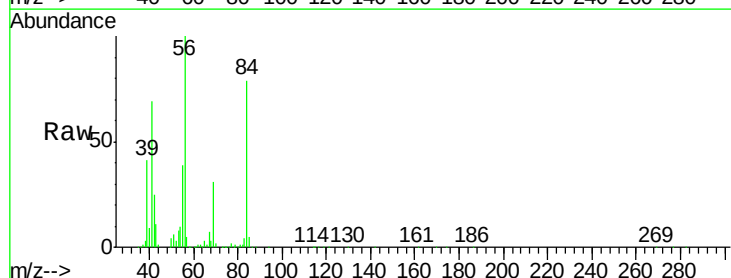
Manual Integrations
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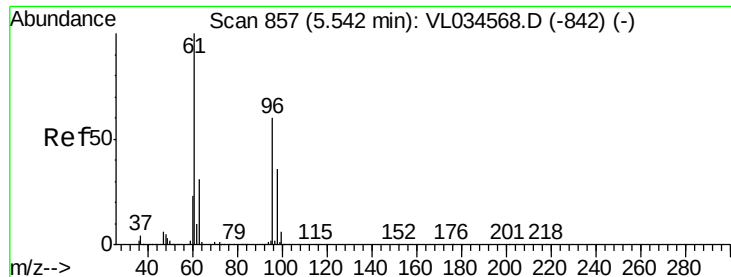
MMDadoda
2/21/2020 3:25:25 PM



#30
Cyclohexane
Concen: 10.289 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion: 84 Resp: 760023
Ion Ratio Lower Upper
84 100
56 138.1 110.5 165.7
41 90.9 71.9 107.9





#31

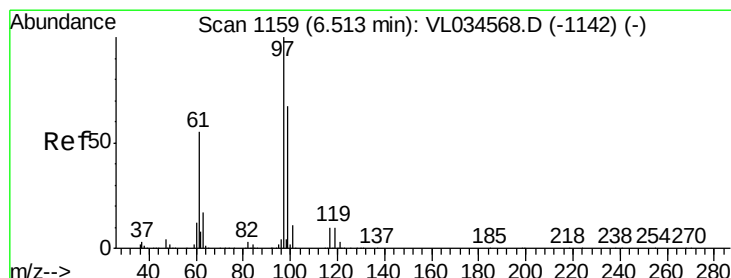
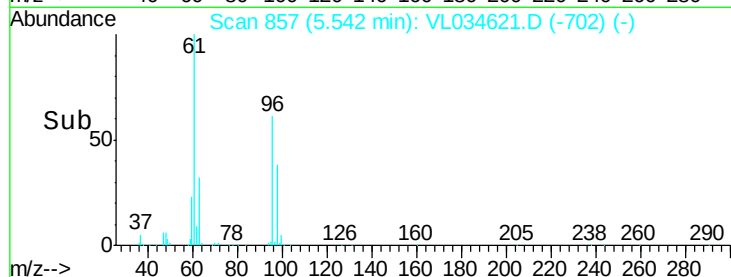
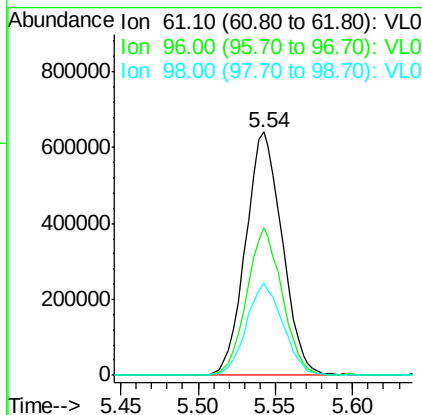
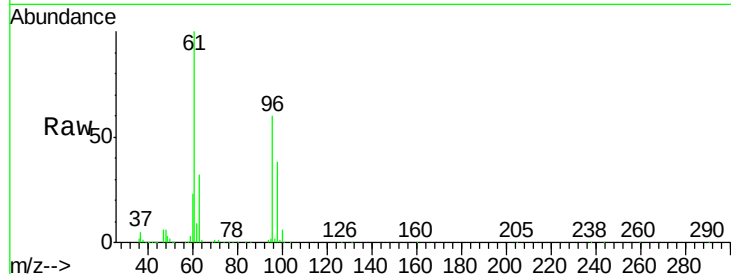
cis-1,2-Dichloroethene
 Concen: 10.183 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	60.5	48.0	72.0
98	38.1	28.6	43.0

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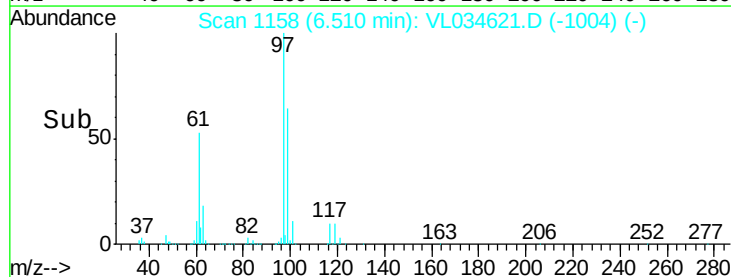
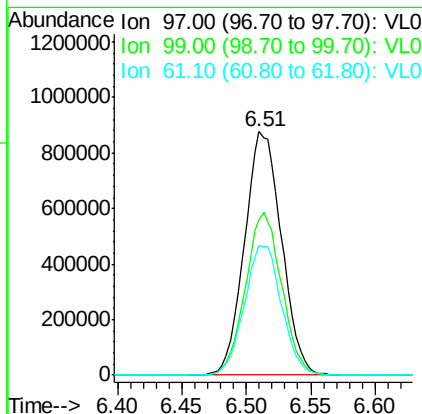
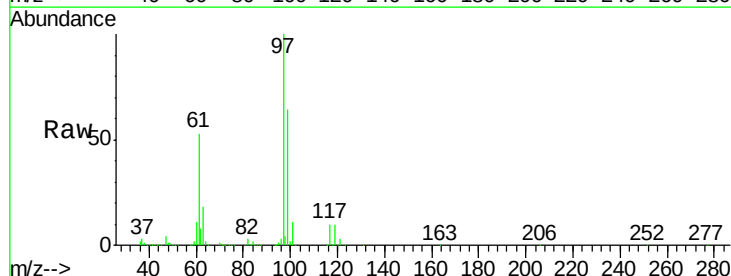
MMDadoda
 2/21/2020 3:25:25 PM

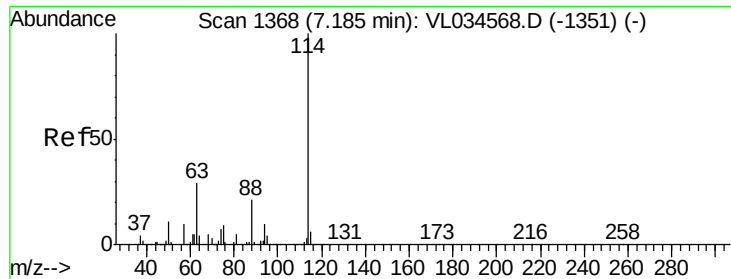


#32

1,1,1-Trichloroethane
 Concen: 9.263 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	52.2	78.2
61	53.8	43.0	64.4





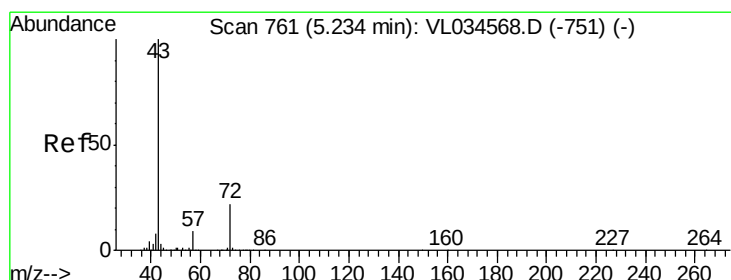
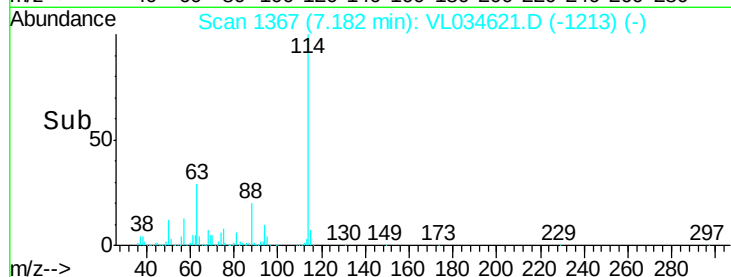
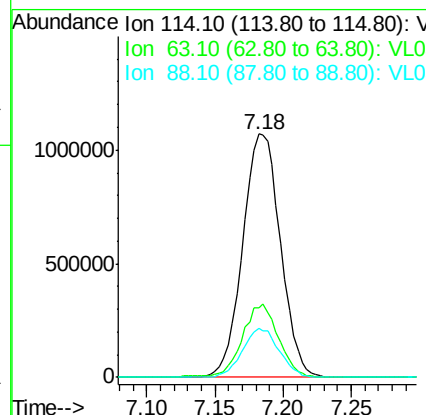
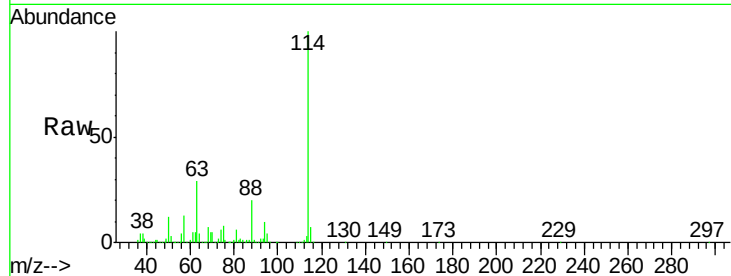
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.3	24.1	36.1
88	19.5	15.9	23.9

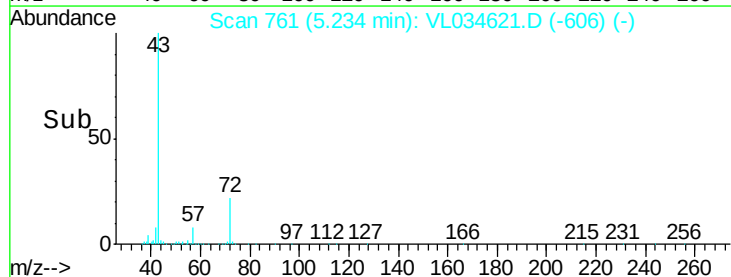
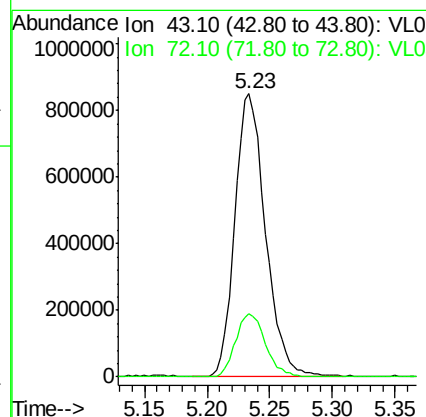
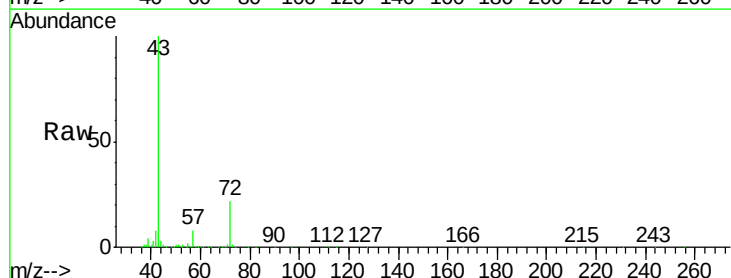
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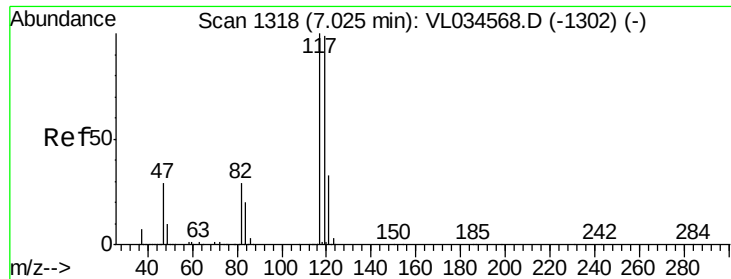
MMDadoda
 2/21/2020 3:25:25 PM



#34
 2-Butanone
 Concen: 9.646 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.2	25.8





#35

Carbon Tetrachloride

Concen: 9.731 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion:117 Resp: 1909248

Ion Ratio Lower Upper

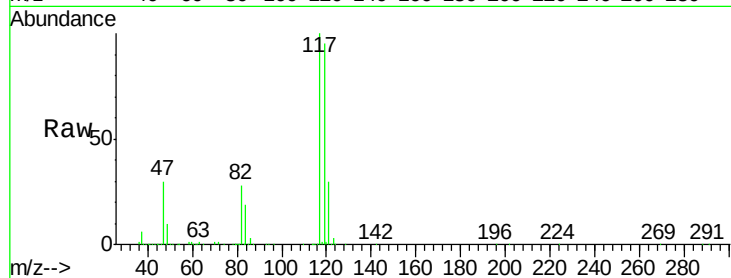
117 100

119 94.9 79.5 119.3

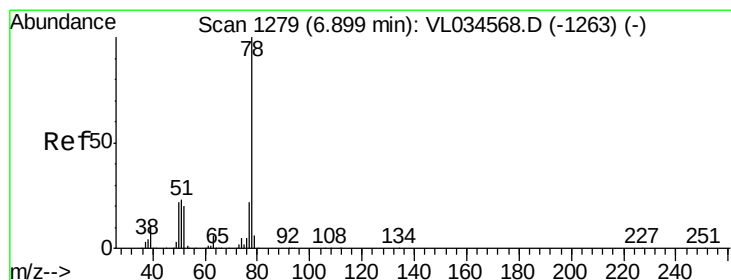
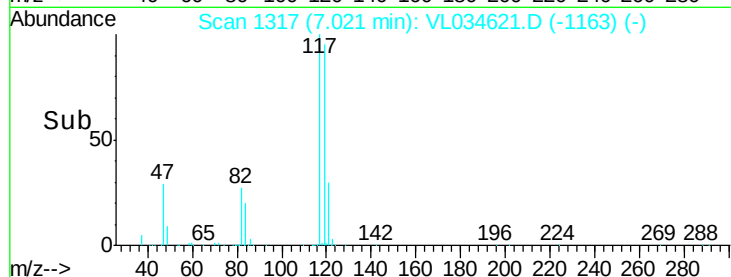
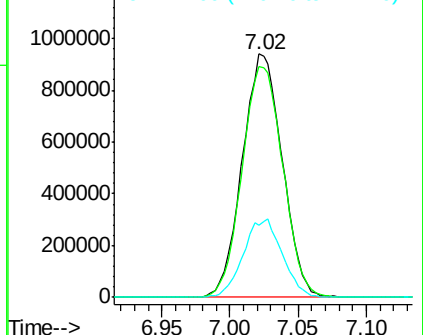
121 29.8 26.2 39.2

Manual Integrations
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2/21/2020 3:25:25 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.133 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

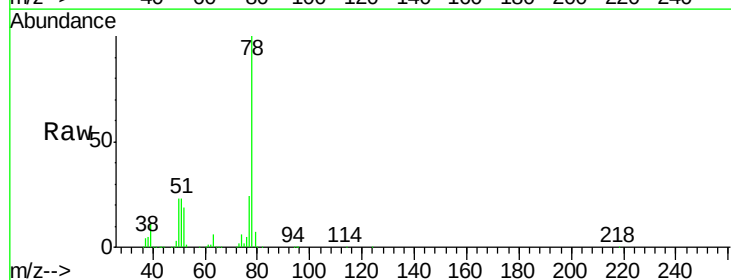
Tgt Ion: 78 Resp: 1849304

Ion Ratio Lower Upper

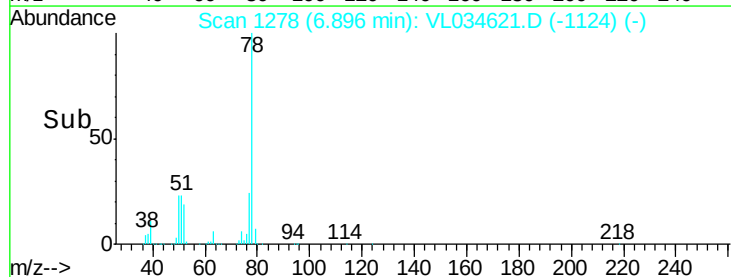
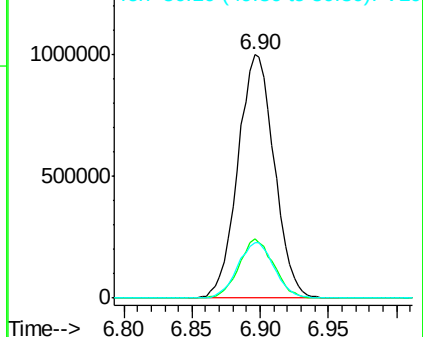
78 100

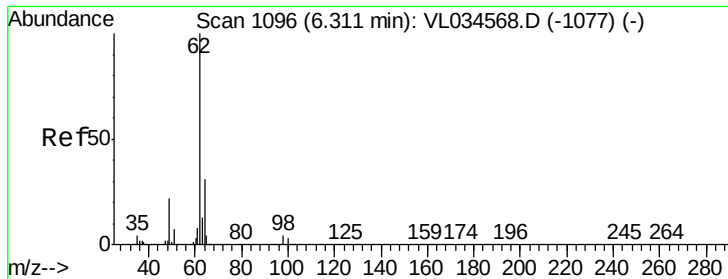
77 24.1 17.3 25.9

50 22.8 17.4 26.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





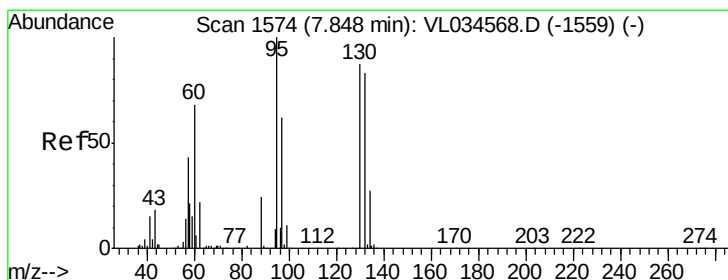
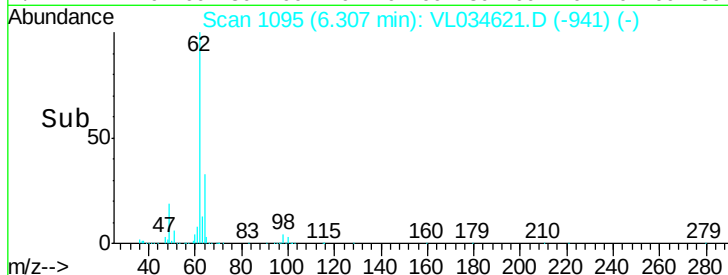
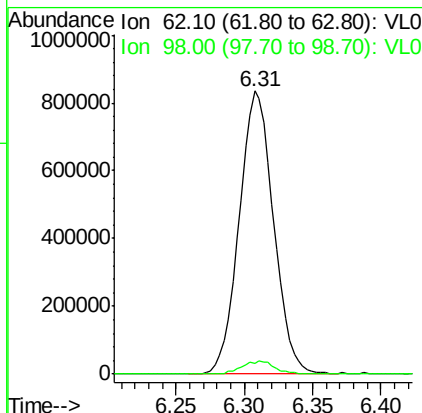
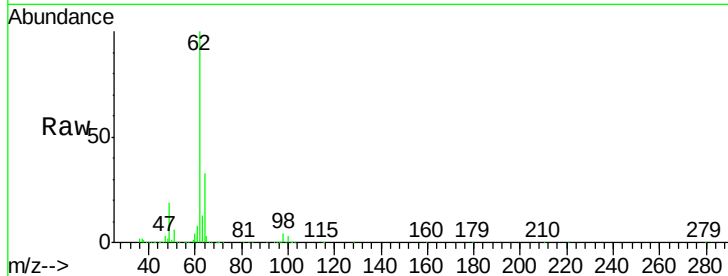
#37
 1,2-Dichloroethane
 Concen: 9.577 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion: 62 Resp: 1458264
 Ion Ratio Lower Upper
 62 100
 98 4.6 3.7 5.5

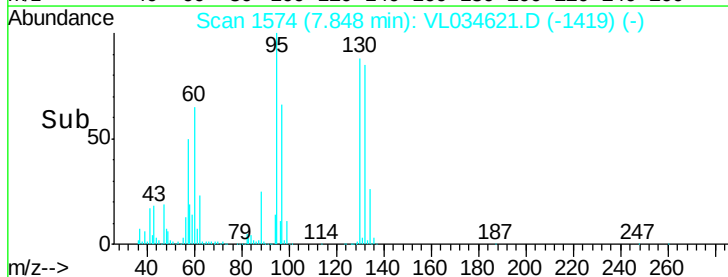
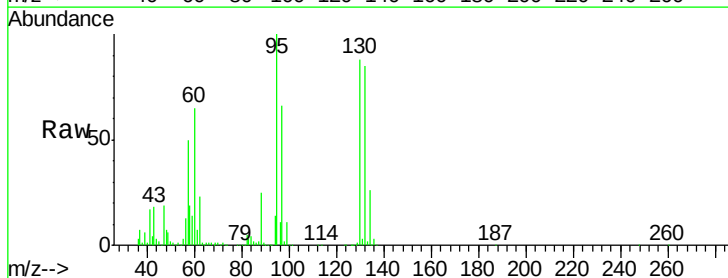
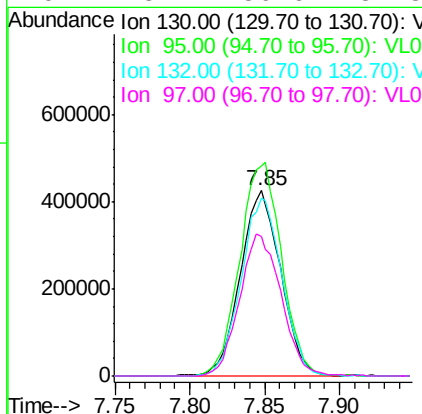
Manual Integrations
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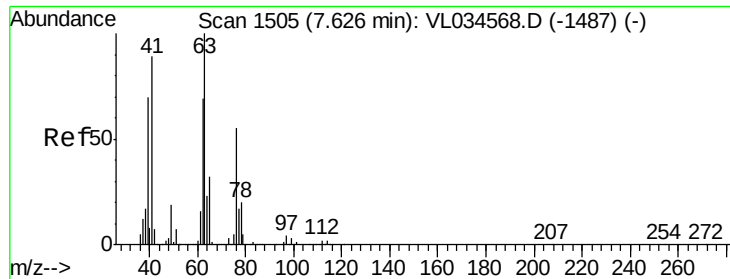
MMDadoda
 2/21/2020 3:25:25 PM



#38
 Trichloroethene
 Concen: 10.361 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion: 130 Resp: 797076
 Ion Ratio Lower Upper
 130 100
 95 112.9 91.6 137.4
 132 95.9 76.1 114.1
 97 75.1 56.6 84.8





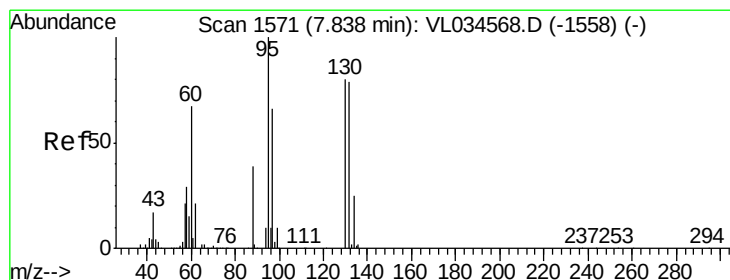
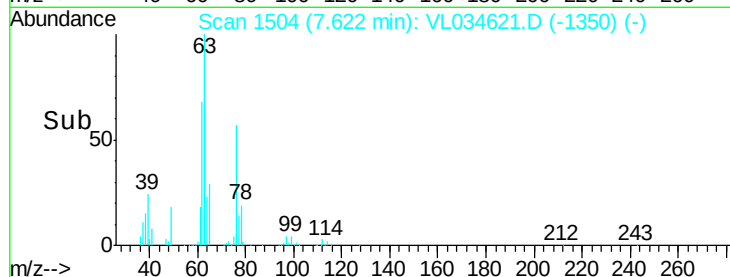
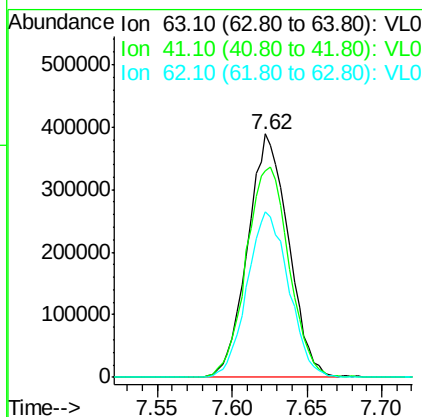
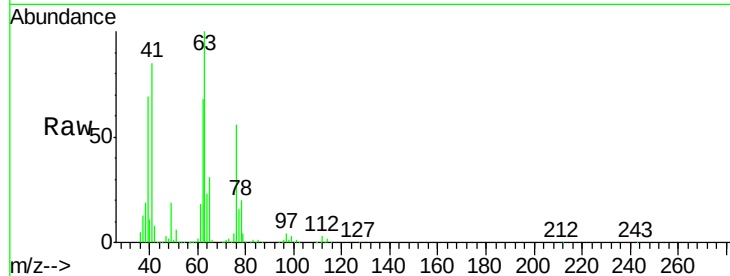
#39
 1,2-Dichloropropane
 Concen: 9.777 ppbv
 RT: 7.62 min Scan# 1504
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	85.0	71.0	106.4
62	68.1	55.4	83.0

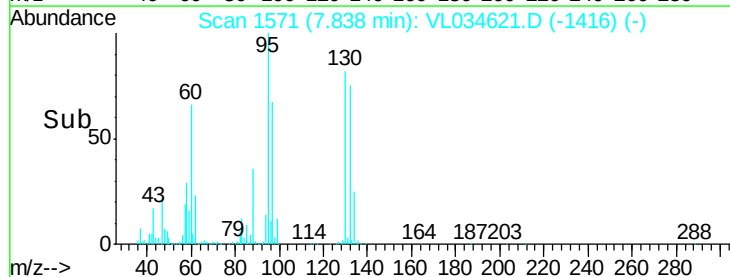
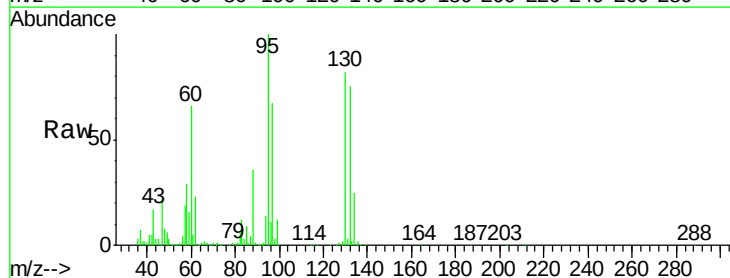
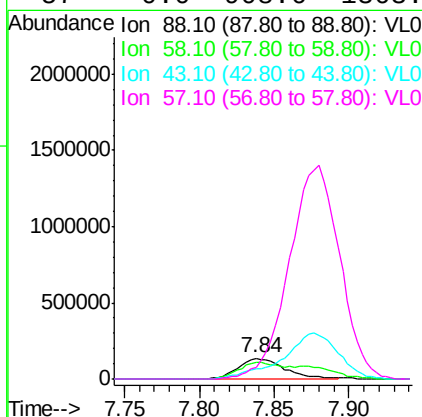
Manual Integrations
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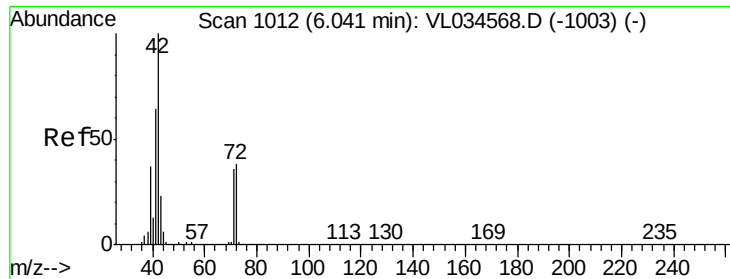
MMDadoda
 2/21/2020 3:25:25 PM



#40
 1,4-Dioxane
 Concen: 10.007 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.0	107.8	161.8
43	0.0	220.9	331.3#
57	0.0	908.6	1363.0#





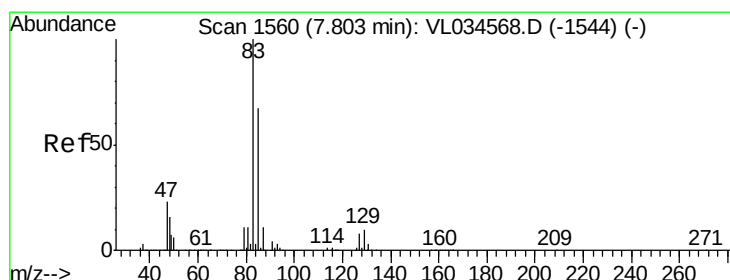
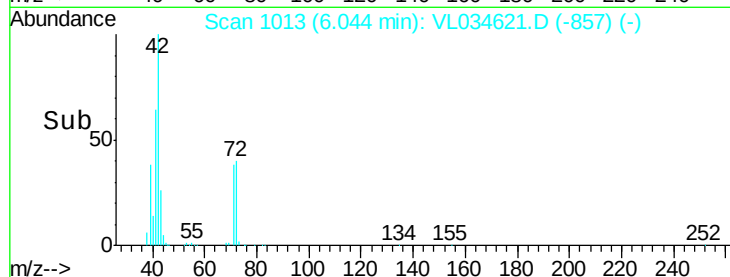
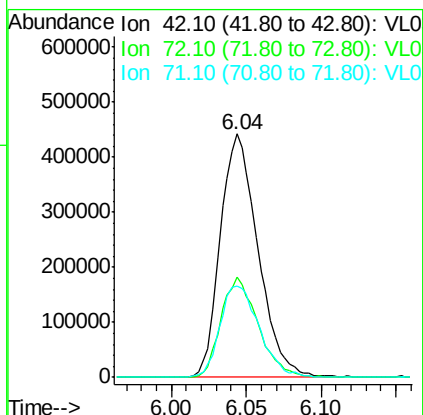
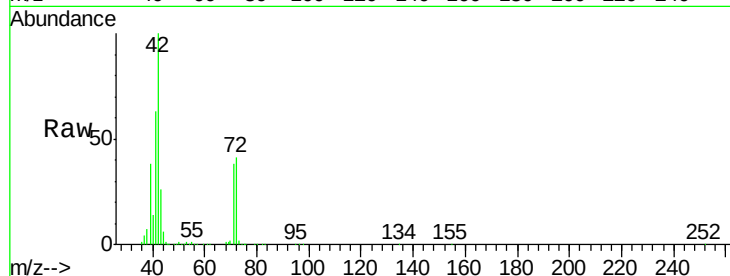
#41
Tetrahydrofuran
Concen: 9.937 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.8	31.8	47.8
71	39.8	30.2	45.4

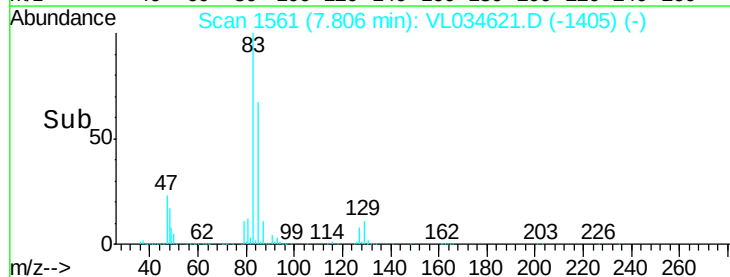
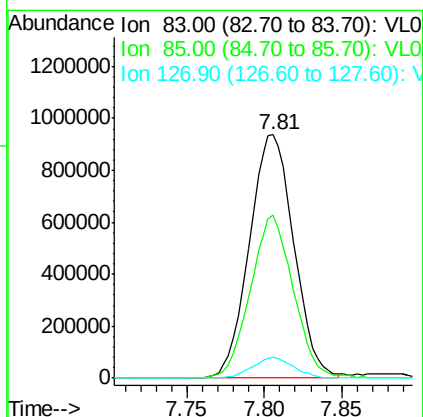
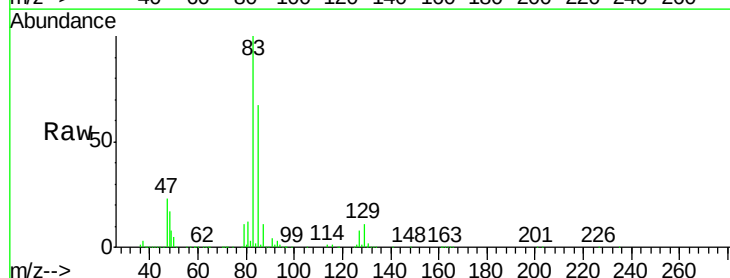
Manual Integrations
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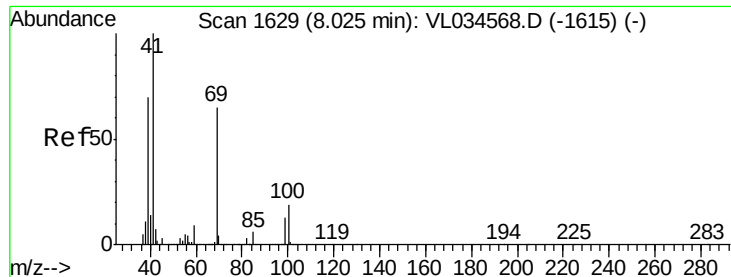
MMDadoda
2/21/2020 3:25:25 PM



#42
Bromodichloromethane
Concen: 9.984 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	53.2	79.8
127	8.4	6.5	9.7





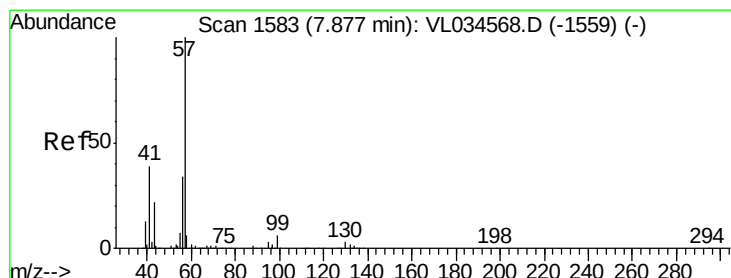
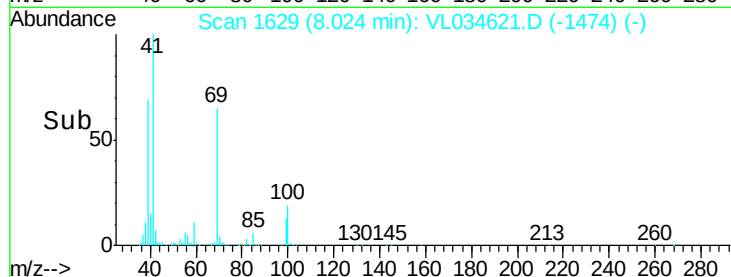
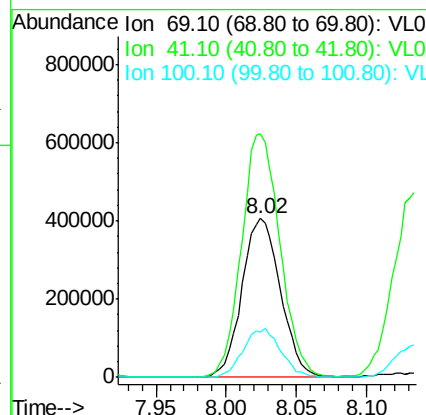
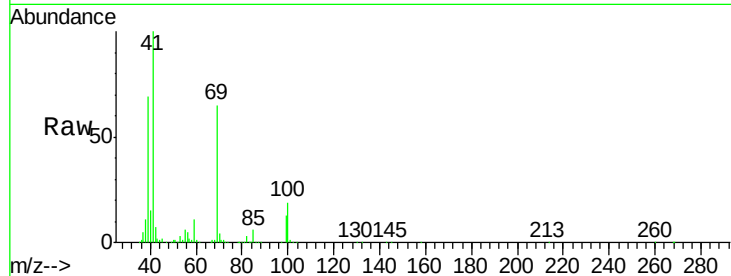
#43
Methvl Methacrylate
Concen: 10.630 ppbv
RT: 8.02 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	152.5	123.9	185.9
100	30.0	24.1	36.1

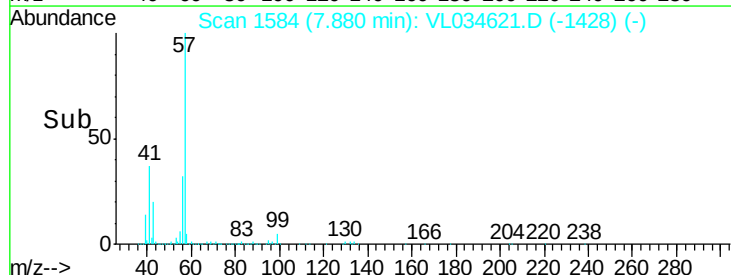
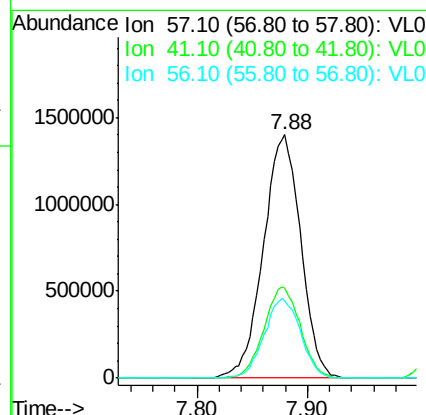
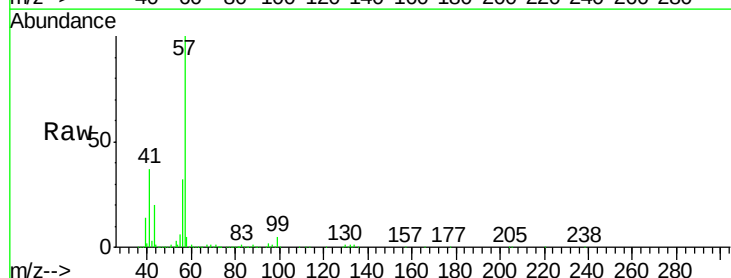
Manual Integrations
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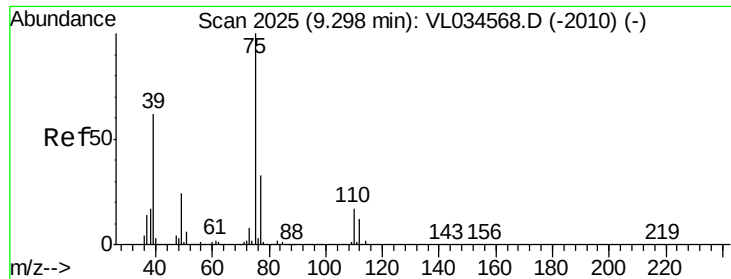
MMDadoda
2/21/2020 3:25:25 PM



#44
2,2,4-Trimethylpentane
Concen: 9.936 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.4	28.9	43.3
56	31.7	25.5	38.3





#45

t-1,3-Dichloropropene

Concen: 11.620 ppbv

RT: 9.30 min Scan# 2025

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 75 Resp: 1116884

Ion Ratio Lower Upper

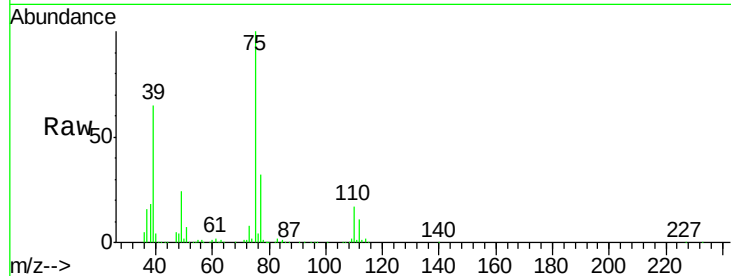
75 100

77 31.8 26.7 40.1

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.30

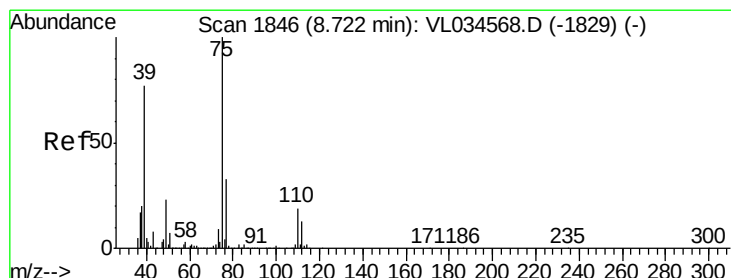
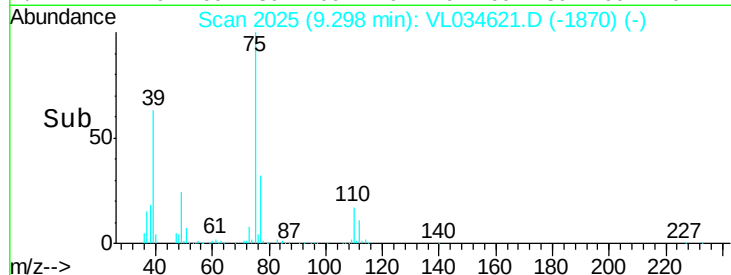
600000

400000

200000

0

Time--> 9.20 9.25 9.30 9.35



#46

cis-1,3-Dichloropropene

Concen: 11.293 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

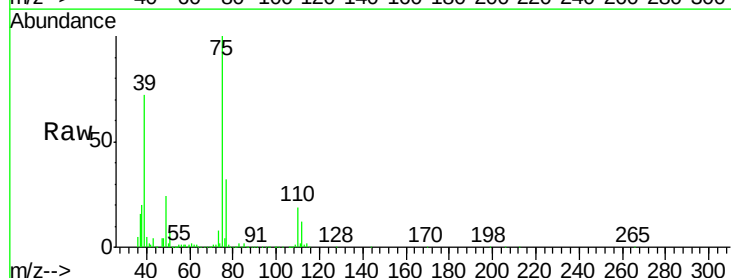
Tgt Ion: 75 Resp: 1233767

Ion Ratio Lower Upper

75 100

39 72.3 61.9 92.9

77 31.7 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

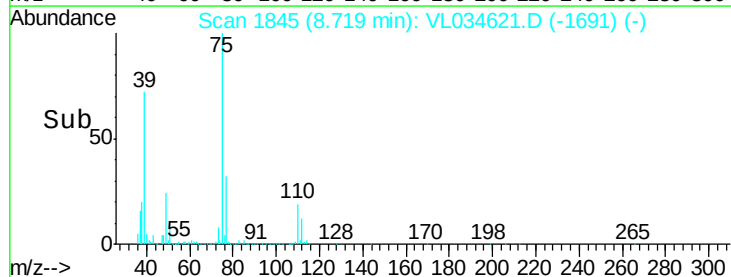
600000

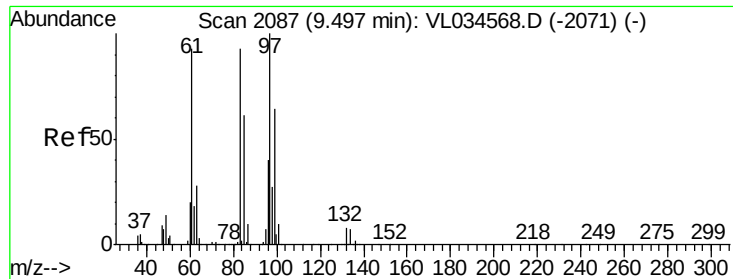
400000

200000

0

Time--> 8.65 8.70 8.75 8.80





#47

1,1,2-Trichloroethane

Concen: 9.940 ppbv

RT: 9.49 min Scan# 2086

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

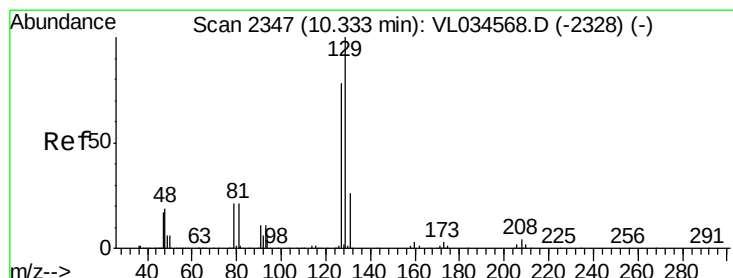
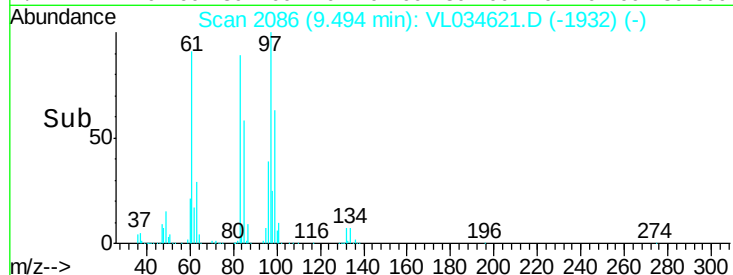
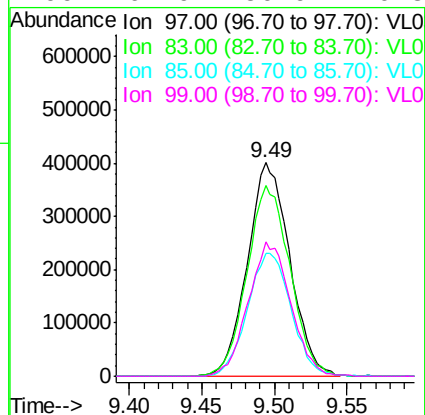
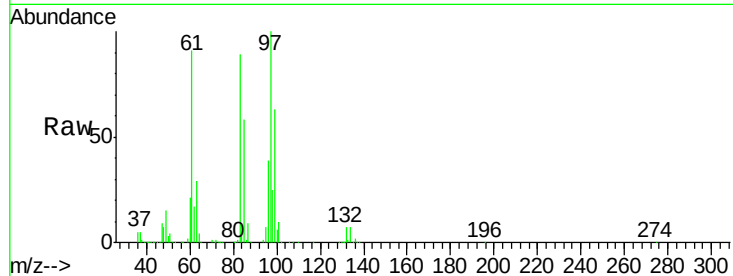
ClientSampleId :

VL0218ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	89.5	74.4	111.6	
85	57.7	49.2	73.8	
99	62.9	50.9	76.3	

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#48

Dibromochloromethane

Concen: 10.592 ppbv

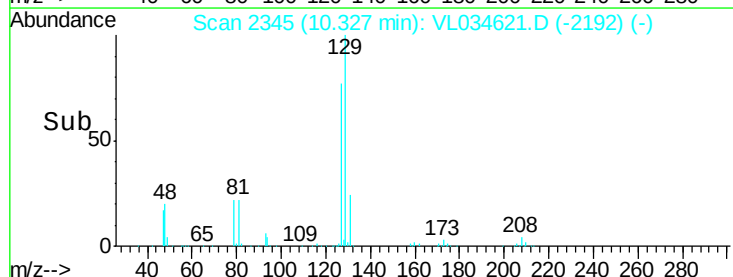
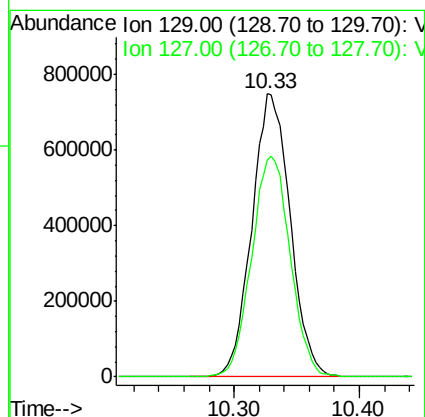
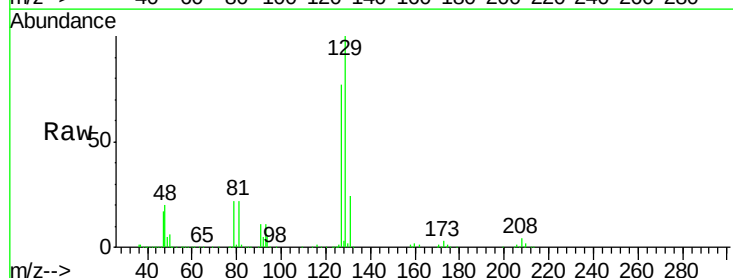
RT: 10.33 min Scan# 2345

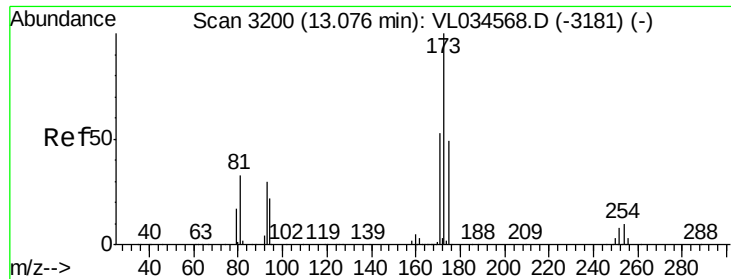
Delta R.T. -0.01 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	39.1	117.2	





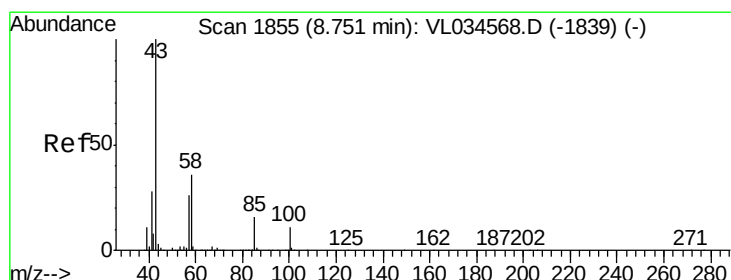
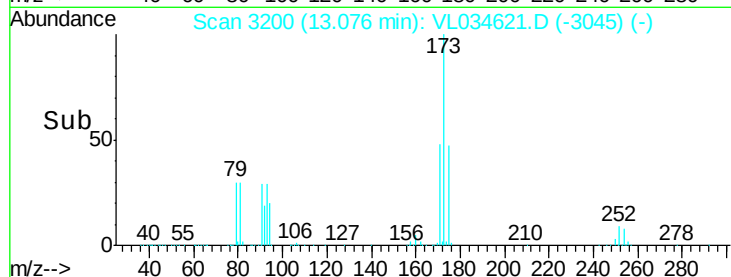
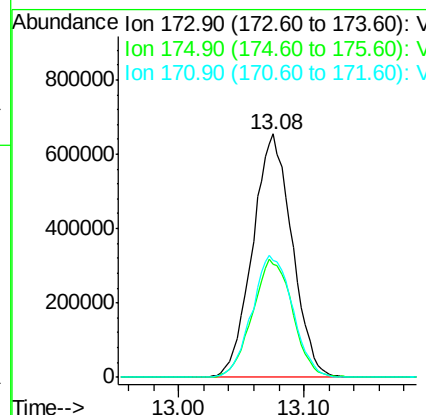
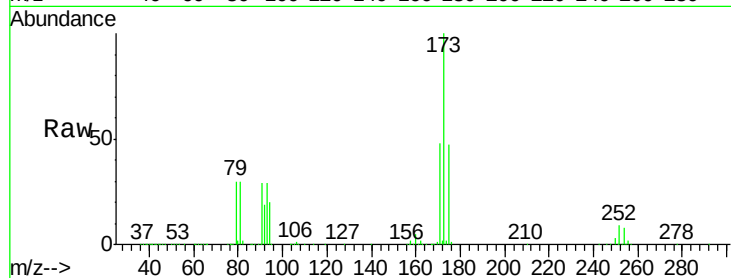
#49
Bromoform
Concen: 10.879 ppbv
RT: 13.08 min Scan# 3200
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion	Ion	Ratio	Lower	Upper
173	100			
175	49.1	39.7	59.5	
171	51.7	41.6	62.4	

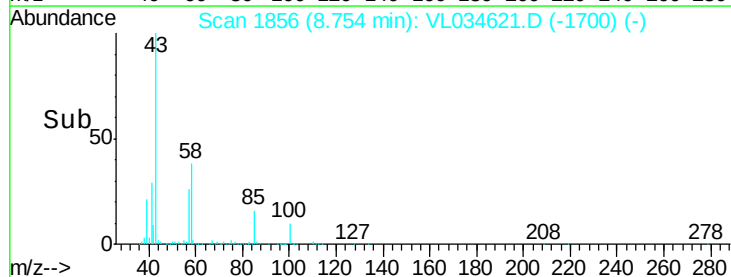
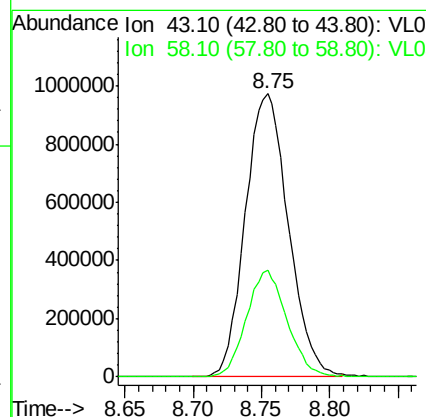
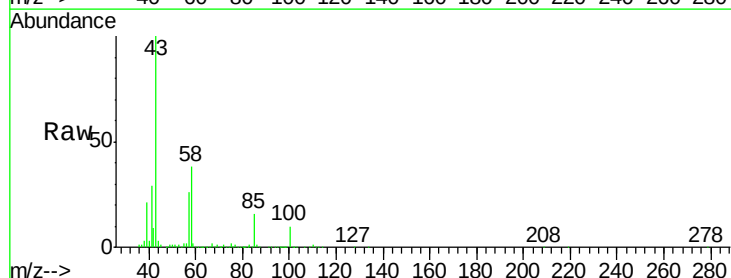
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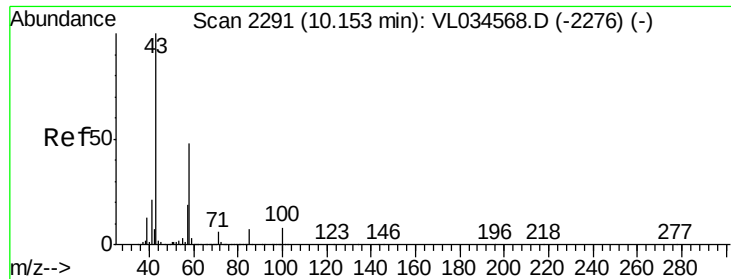
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.041 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. 0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
58	35.5	28.6	43.0	





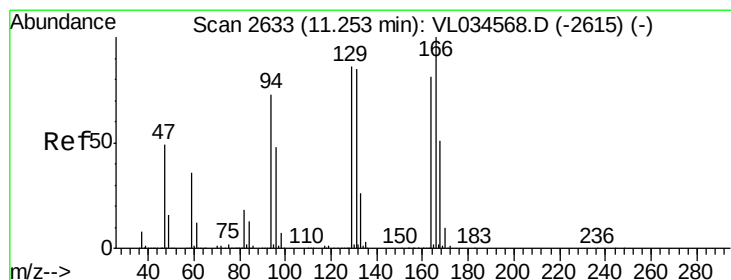
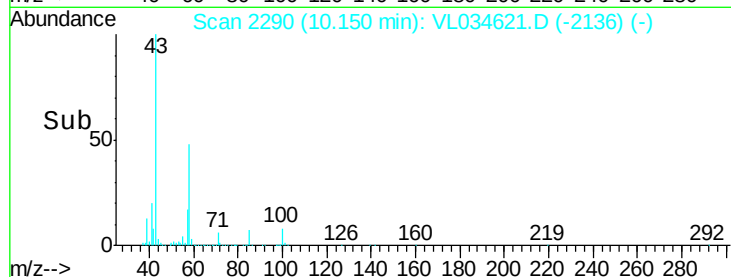
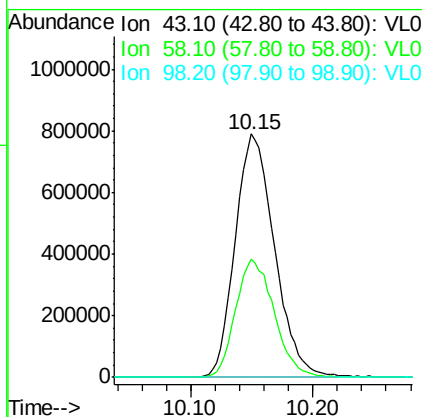
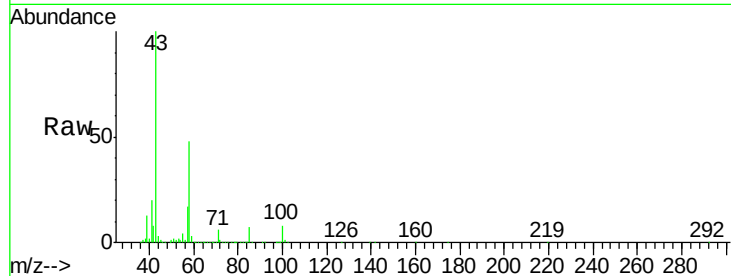
#51
2-Hexanone
Concen: 10.503 ppbv
RT: 10.15 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion: 43 Resp: 1756964
Ion Ratio Lower Upper
43 100
58 47.7 37.9 56.9
98 0.3 0.3 0.5#

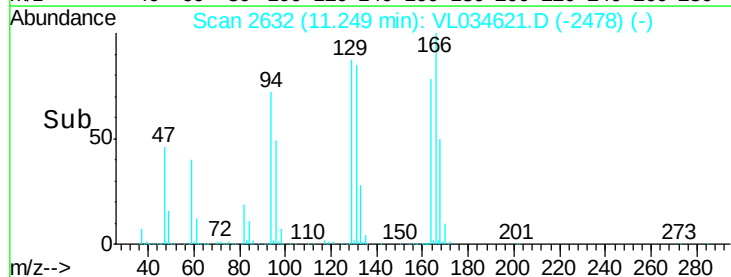
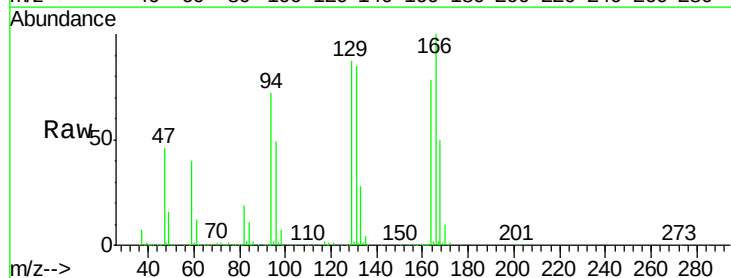
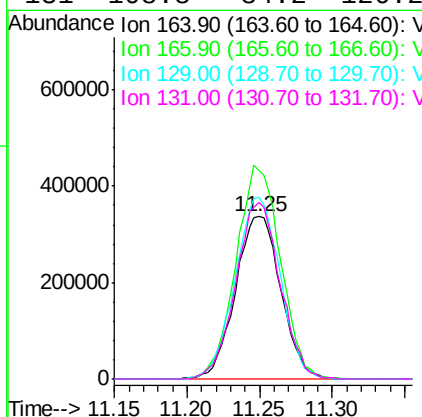
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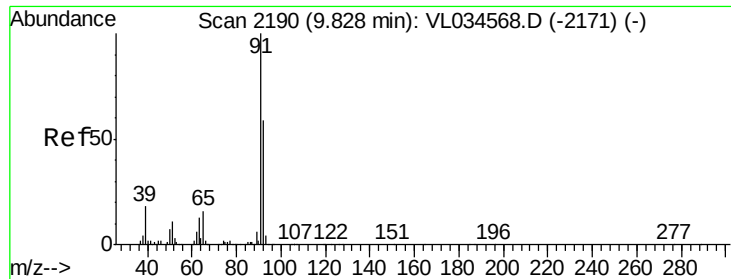
MMDadoda
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#52
Tetrachloroethene
Concen: 9.933 ppbv
RT: 11.25 min Scan# 2632
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion:164 Resp: 728216
Ion Ratio Lower Upper
164 100
166 128.4 99.0 148.4
129 111.8 85.3 127.9
131 108.8 84.2 126.2





#53

Toluene

Concen: 10.870 ppbv

RT: 9.82 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 91 Resp: 2179210

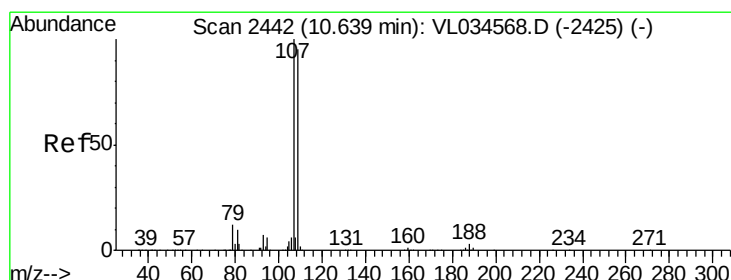
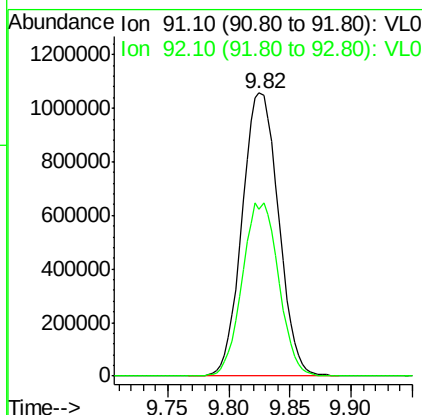
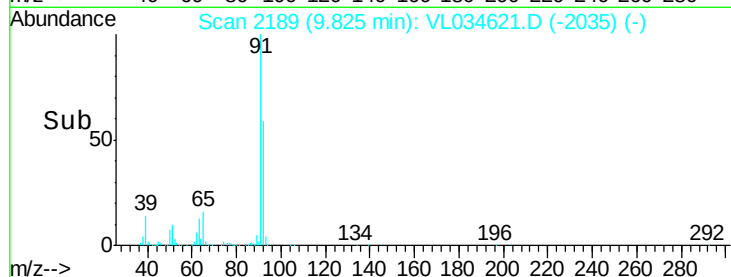
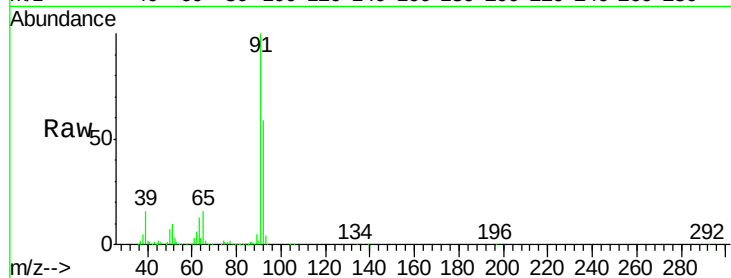
Ion Ratio Lower Upper

91 100

92 61.2 48.2 72.2

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#54

1,2-Dibromoethane

Concen: 10.155 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL034621.D

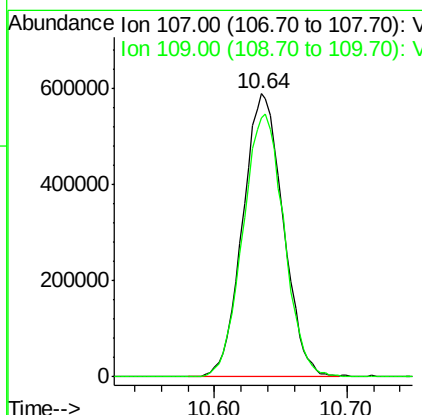
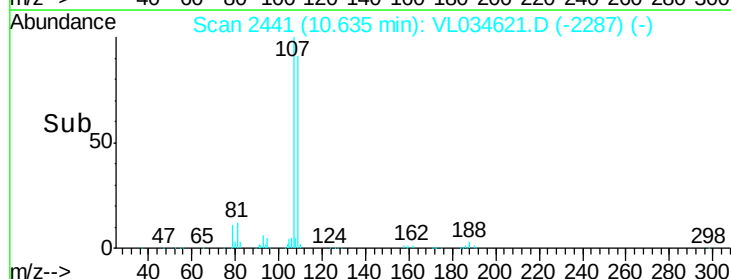
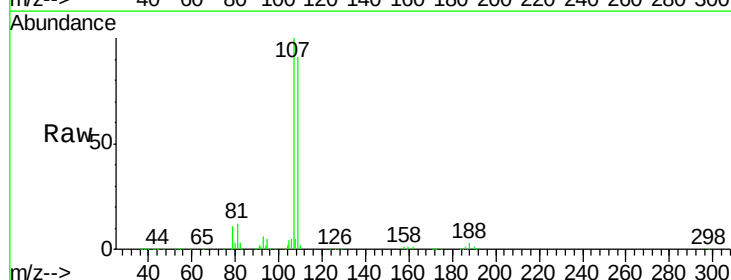
Acq: 18 Feb 2020 12:12

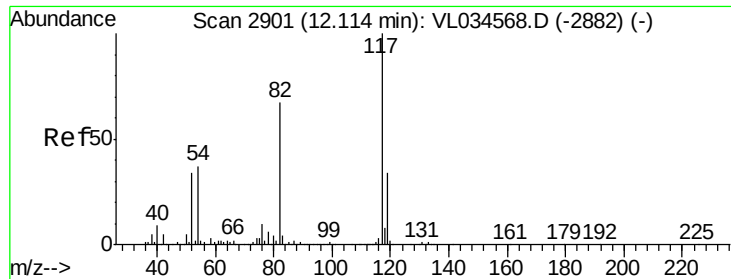
Tgt Ion:107 Resp: 1246988

Ion Ratio Lower Upper

107 100

109 91.4 75.9 113.9





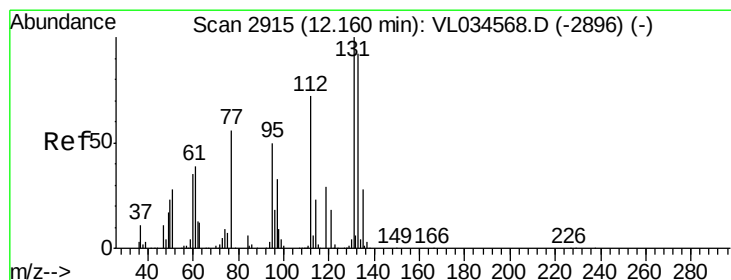
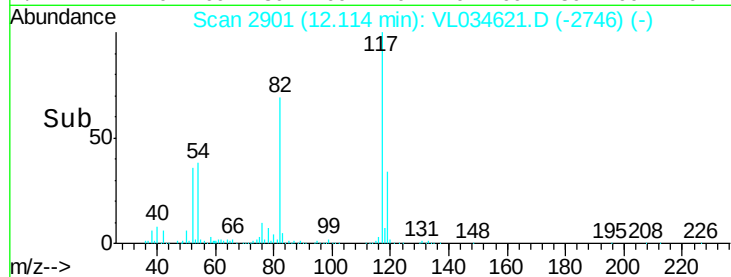
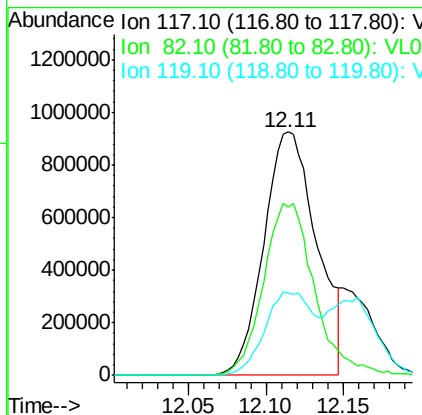
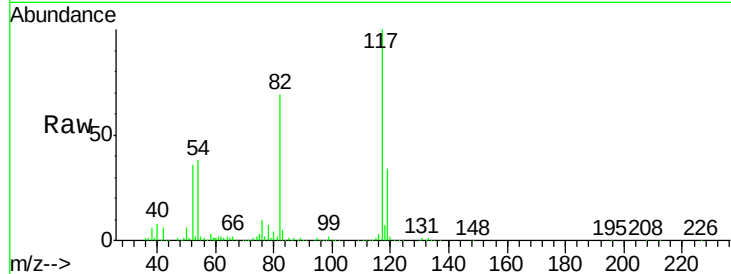
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion:117 Resp: 2200727
Ion Ratio Lower Upper
117 100
82 68.6 54.2 81.4
119 28.9 26.1 39.1

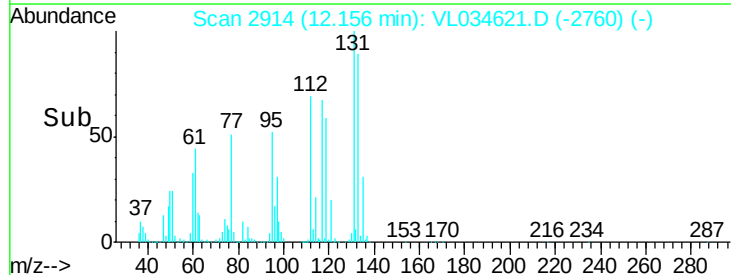
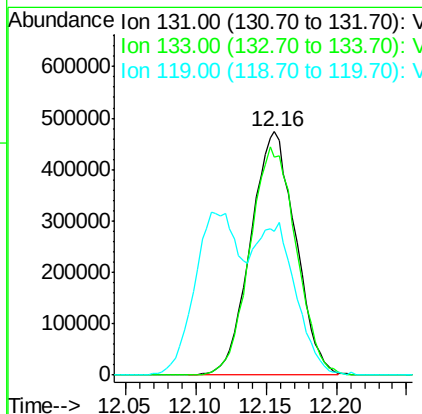
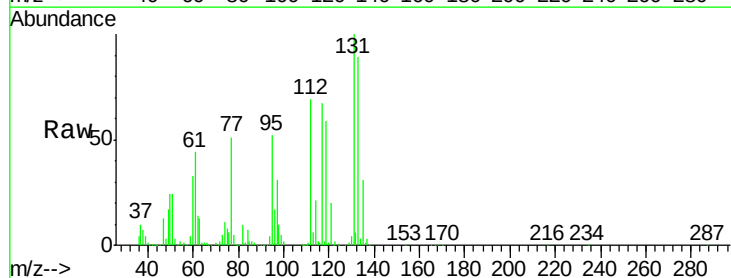
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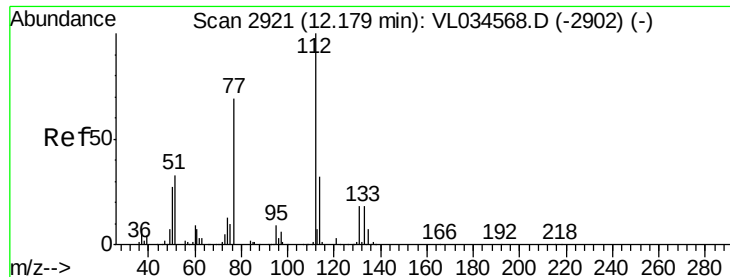
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.681 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion:131 Resp: 1051777
Ion Ratio Lower Upper
131 100
133 96.5 75.8 113.8
119 65.5 47.0 70.6





#57

Chlorobenzene

Concen: 9.654 ppbv

RT: 12.17 min Scan# 2919

Delta R.T. -0.01 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion:112 Resp: 1748187

Ion Ratio Lower Upper

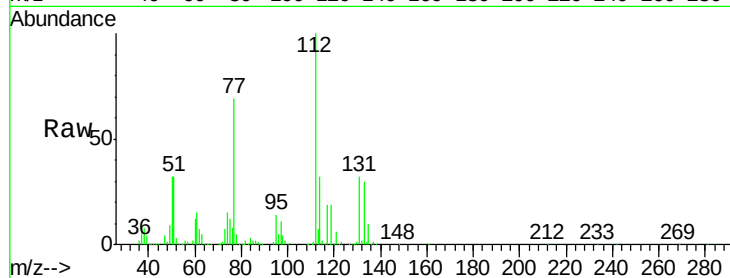
112 100

77 69.1 56.5 84.7

114 32.0 29.2 35.6

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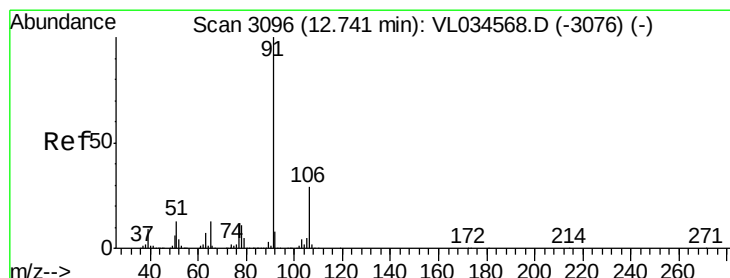
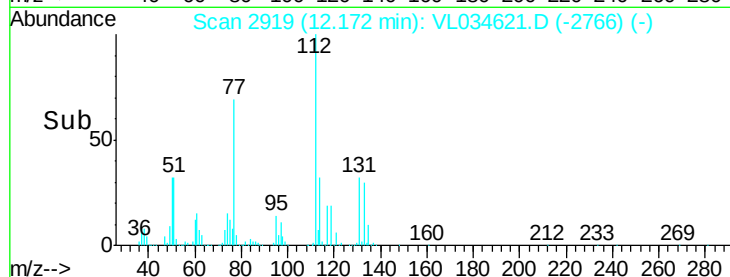
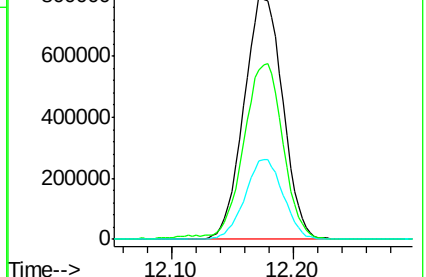
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.340 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. -0.00 min

Lab File: VL034621.D

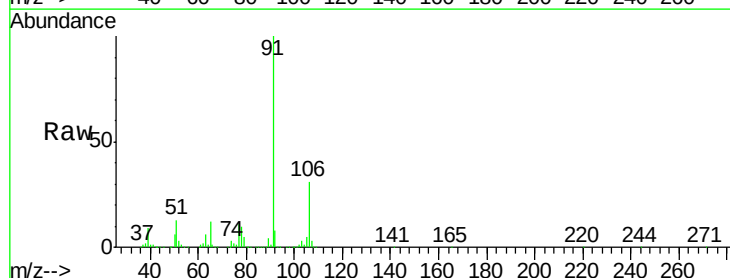
Acq: 18 Feb 2020 12:12

Tgt Ion: 91 Resp: 3045124

Ion Ratio Lower Upper

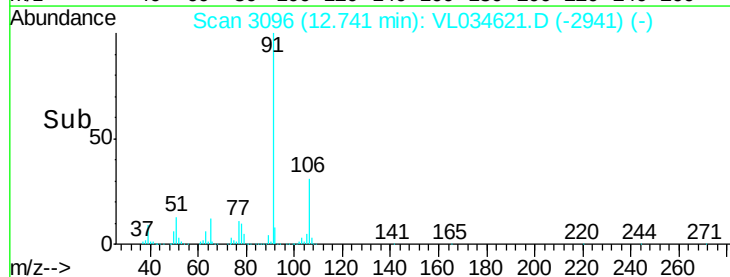
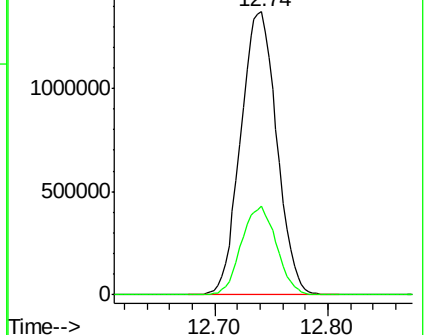
91 100

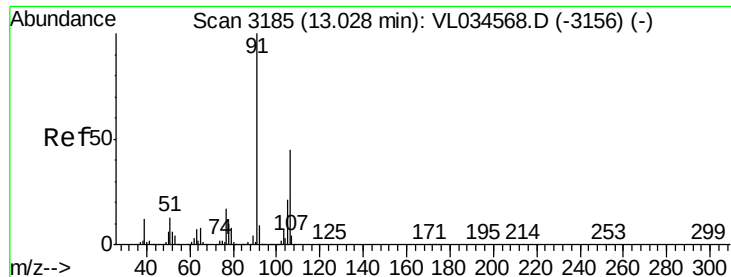
106 31.5 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





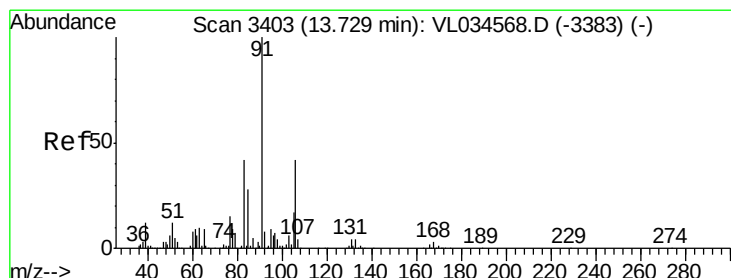
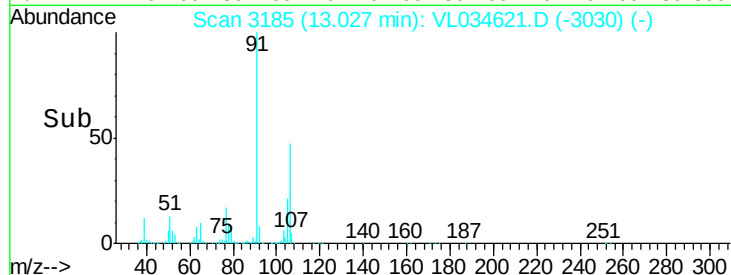
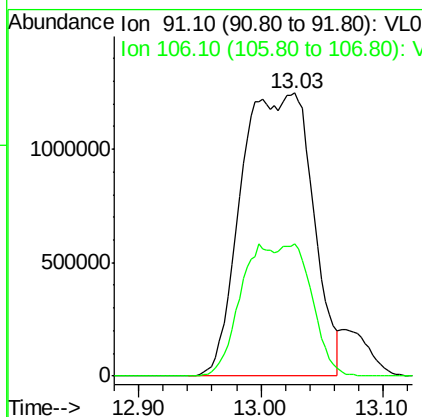
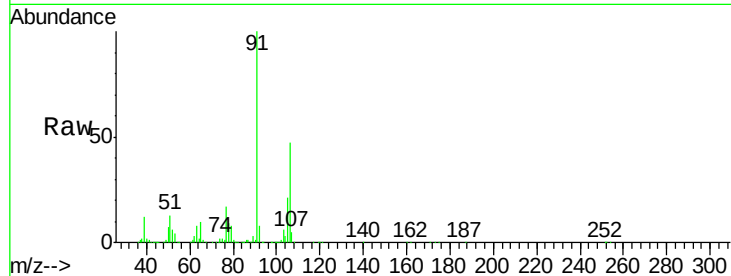
#59
m/p-Xylene
Concen: 19.469 ppbv m
RT: 13.03 min Scan# 3185
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion: 91 Resp: 5068358
Ion Ratio Lower Upper
91 100
106 44.9 35.3 52.9

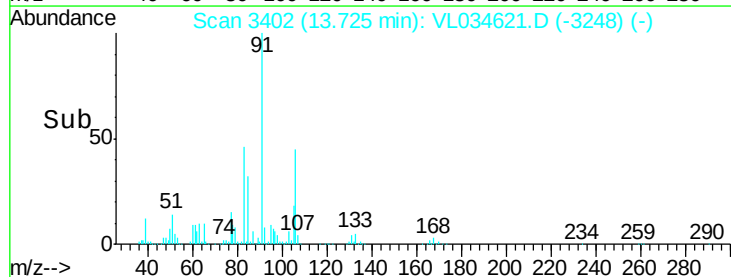
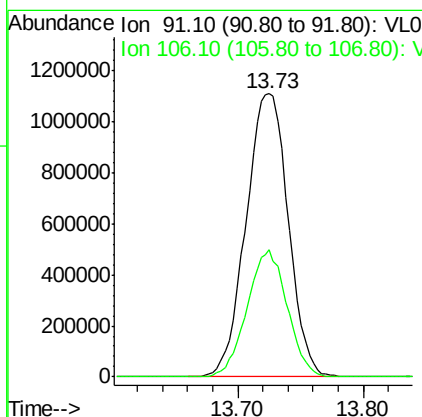
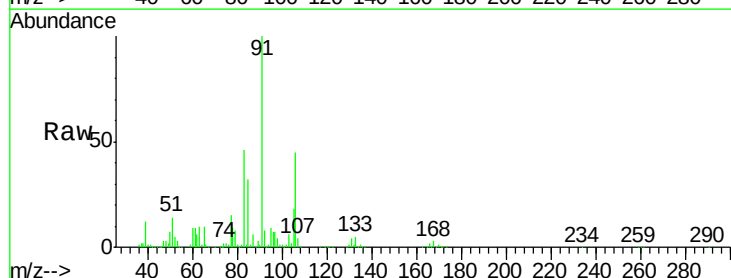
Manual Integrations
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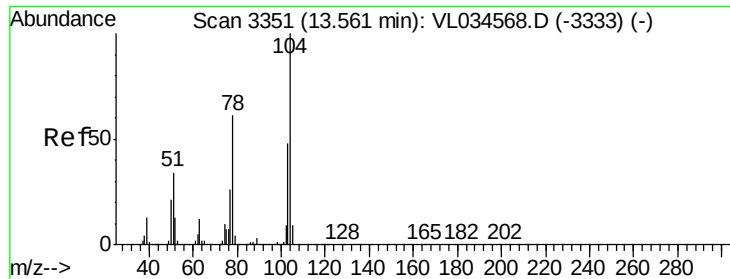
MMDadoda
2/21/2020 3:25:25 PM



#60
o-Xylene
Concen: 9.907 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion: 91 Resp: 2590051
Ion Ratio Lower Upper
91 100
106 42.7 21.6 65.0





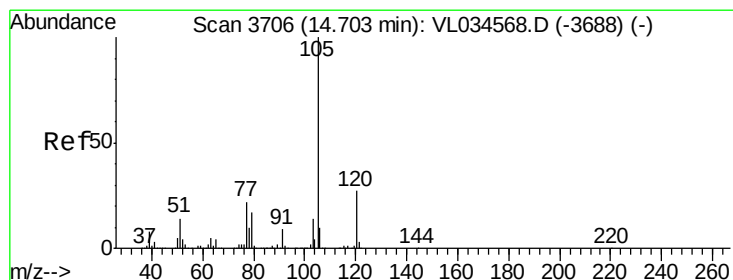
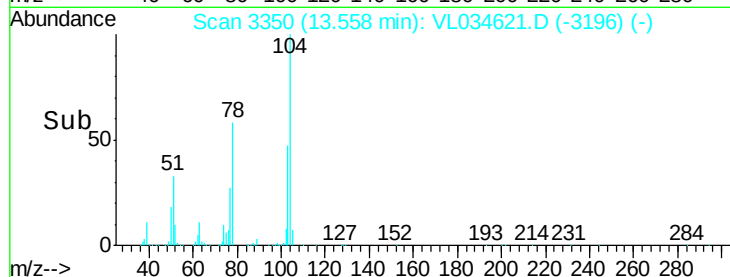
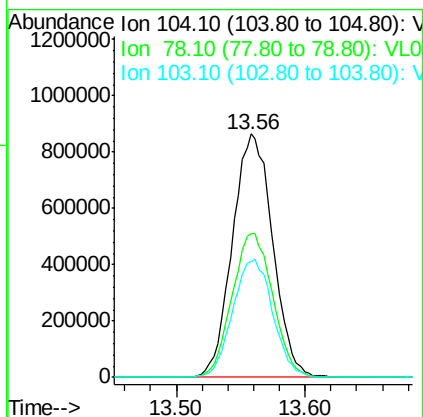
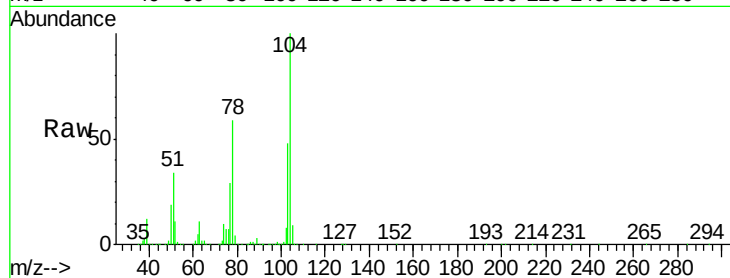
#61
Stvrene
Concen: 10.719 ppbv
RT: 13.56 min Scan# 3350
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	60.0	47.0	70.6
103	48.4	38.5	57.7

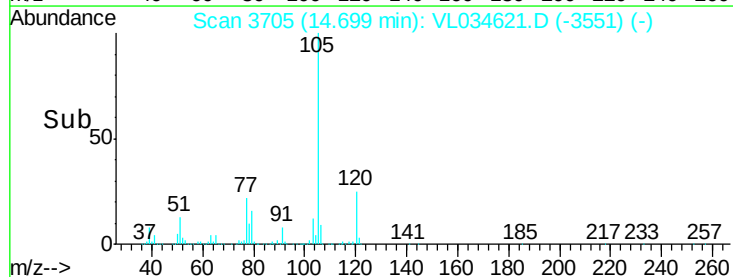
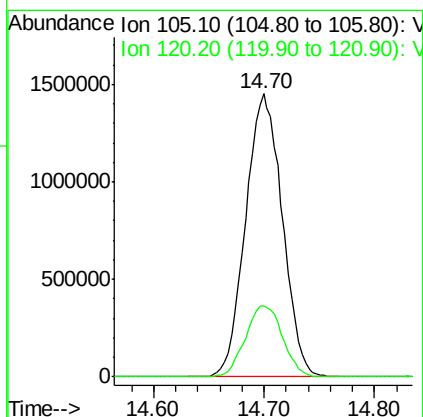
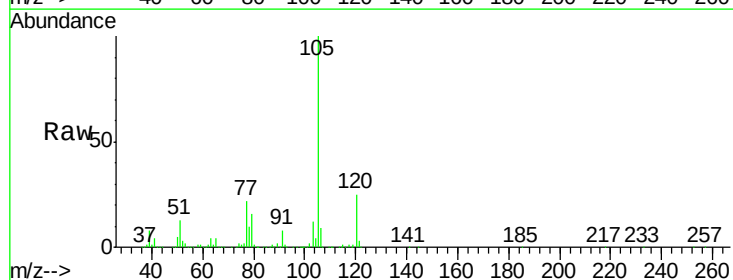
Manual Integrations
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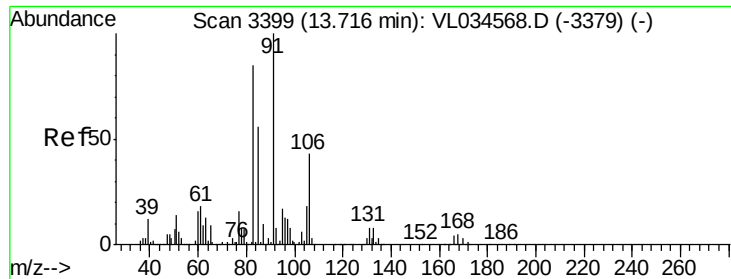
MMDadoda
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#62
Isopropylbenzene
Concen: 9.861 ppbv
RT: 14.70 min Scan# 3705
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.7	31.1





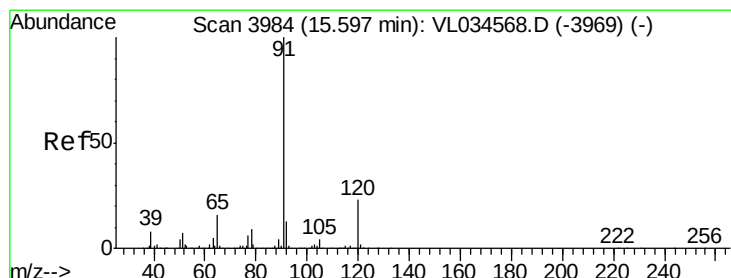
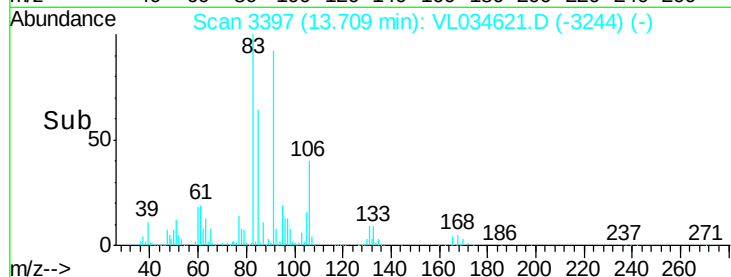
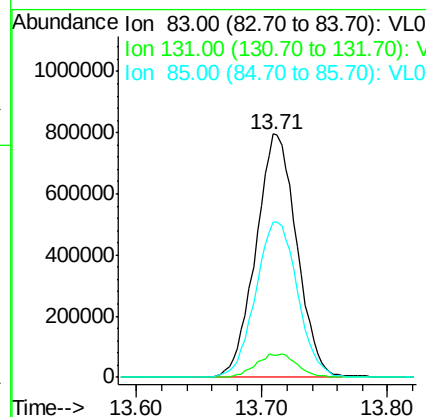
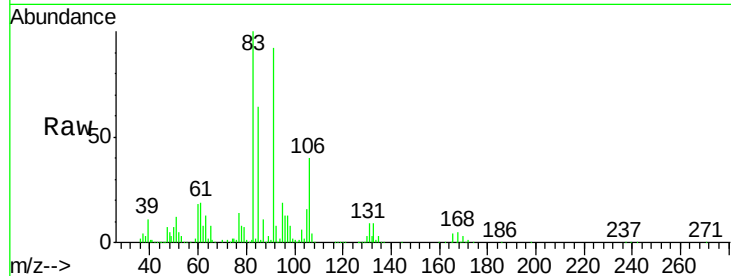
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.902 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. -0.01 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion: 83 Resp: 1799949
 Ion Ratio Lower Upper
 83 100
 131 9.8 4.9 14.6
 85 65.8 32.6 98.0

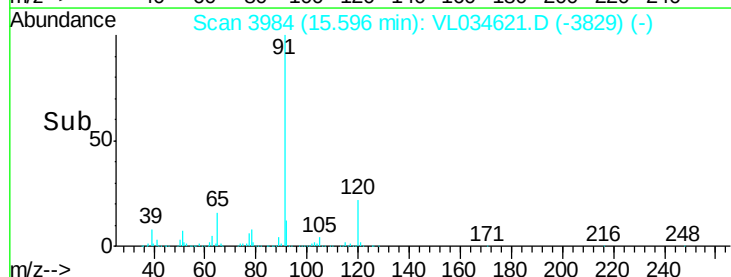
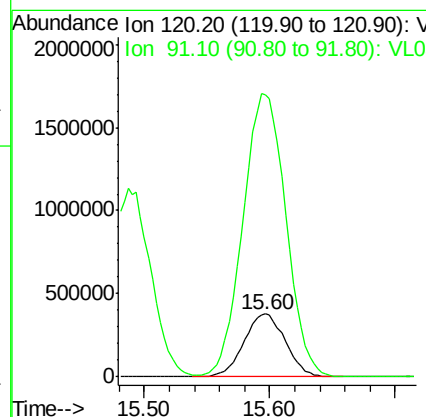
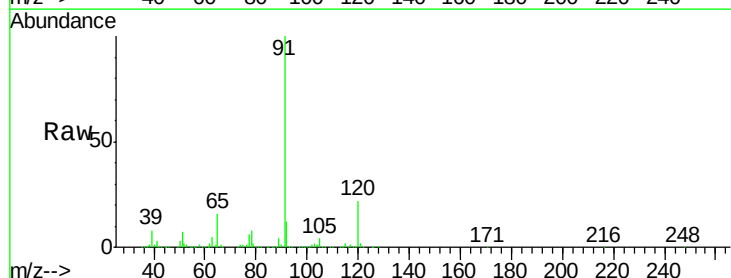
Manual Integrations
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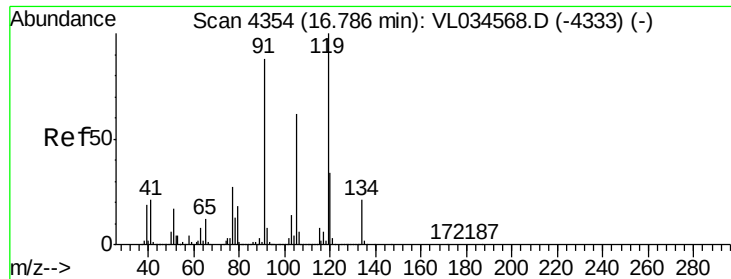
MMDadoda
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#64
 n-propylbenzene
 Concen: 9.914 ppbv
 RT: 15.60 min Scan# 3984
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion: 120 Resp: 864094
 Ion Ratio Lower Upper
 120 100
 91 470.2 365.3 547.9





#65

tert-Butylbenzene

Concen: 9.836 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion:119 Resp: 3018982

Ion Ratio Lower Upper

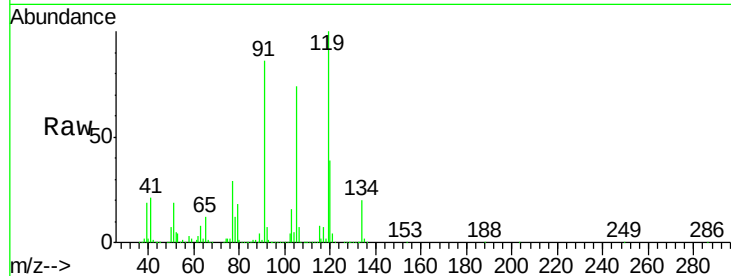
119 100

91 89.7 72.2 108.4

134 19.5 15.9 23.9

Manual Integrations
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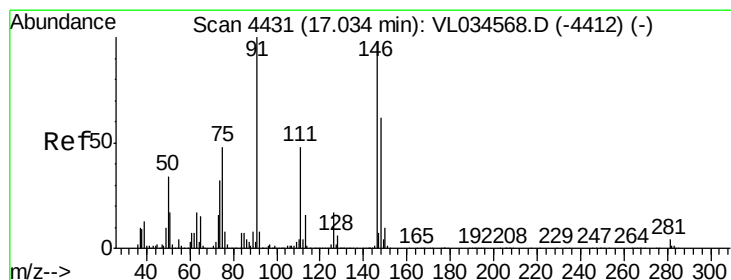
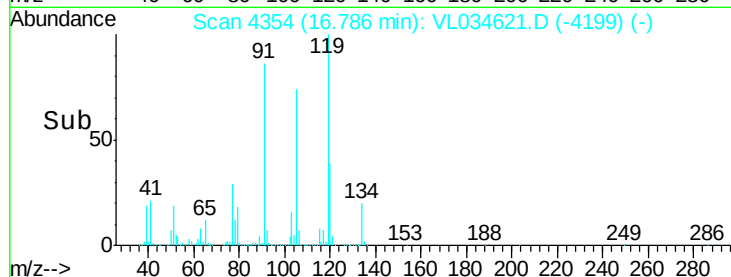
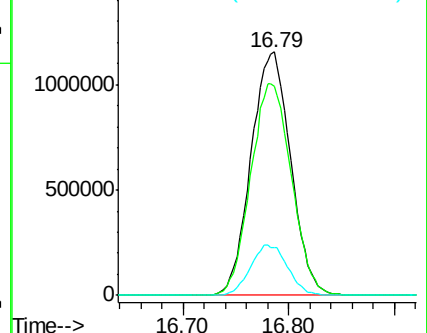
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.339 ppbv

RT: 17.03 min Scan# 4429

Delta R.T. -0.01 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

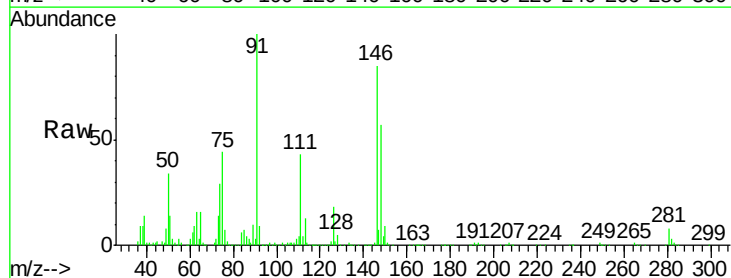
Tgt Ion: 91 Resp: 1459379

Ion Ratio Lower Upper

91 100

126 16.9 13.4 20.0

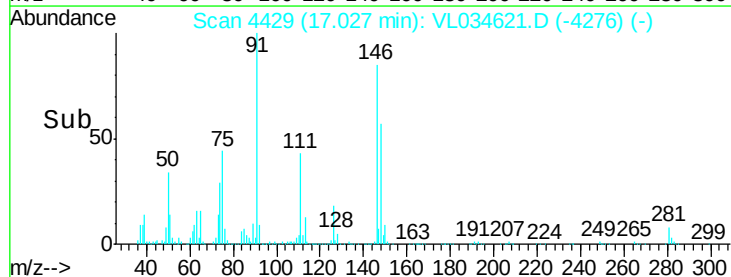
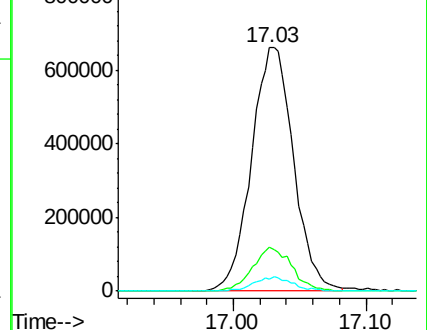
128 5.3 4.3 6.5

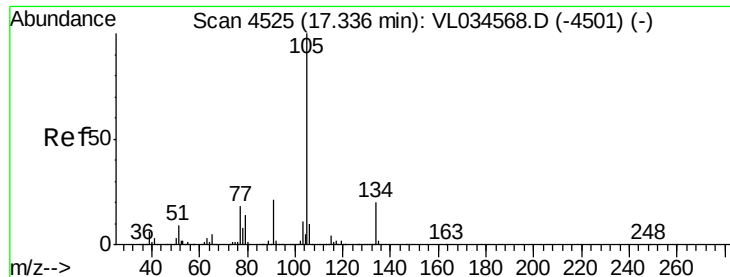


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.752 ppbv

RT: 17.33 min Scan# 4524

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 105 Resp: 4113775

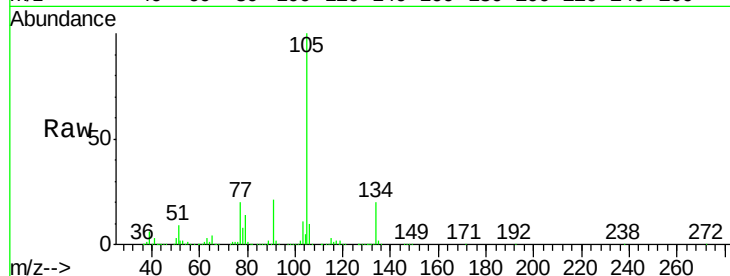
Ion Ratio Lower Upper

105 100

134 18.7 15.5 23.3

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

Ion 134.20 (133.90 to 134.90): V

2000000

1500000

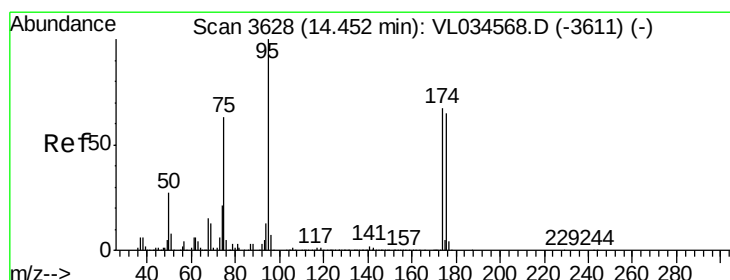
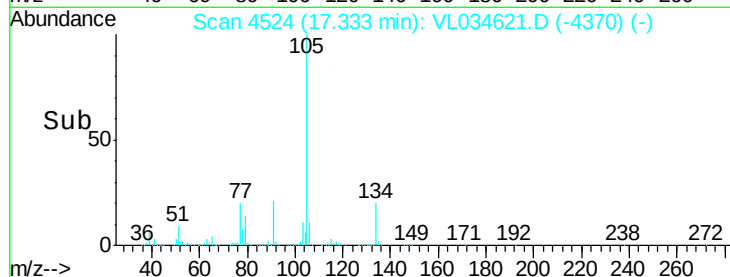
1000000

500000

0

17.20 17.33 17.40

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.816 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

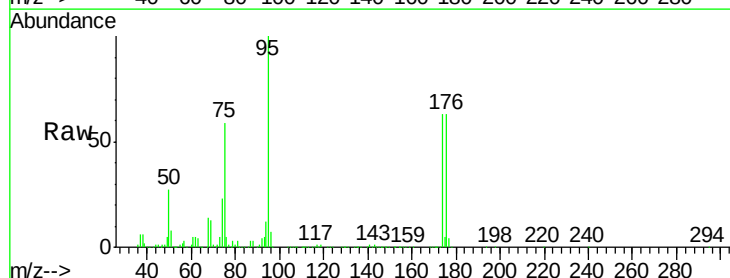
Tgt Ion: 95 Resp: 1825775

Ion Ratio Lower Upper

95 100

174 64.9 52.3 78.5

175 4.7 3.8 5.6



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

1000000

800000

600000

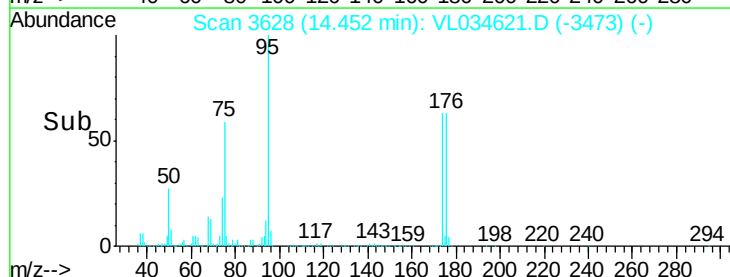
400000

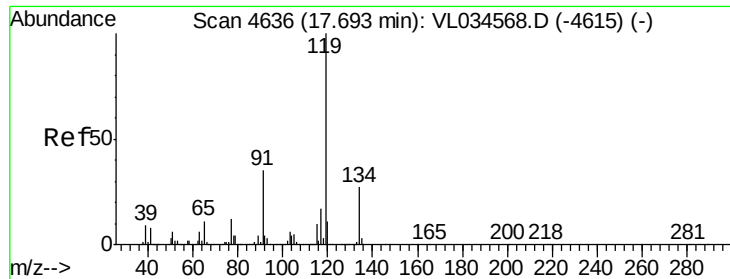
200000

0

14.40 14.45 14.50

Time-->





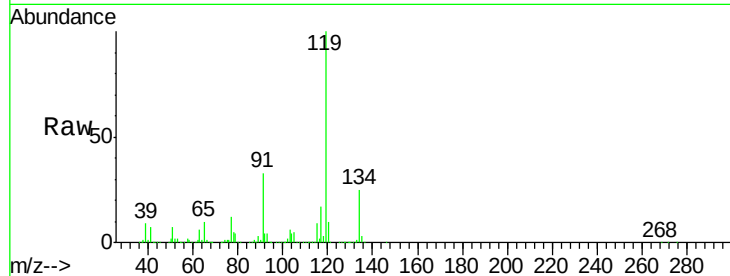
#69
 p-Isopropyltoluene
 Concen: 9.825 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.7	31.1
91	33.9	26.9	40.3

Manual Integrations
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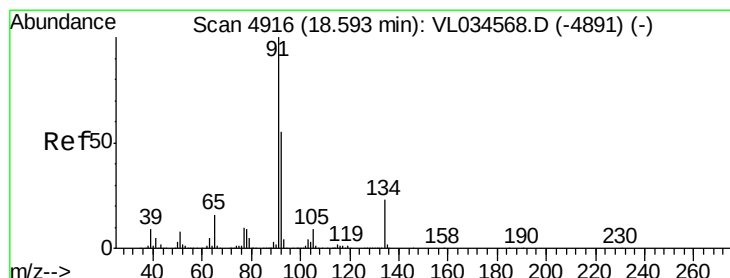
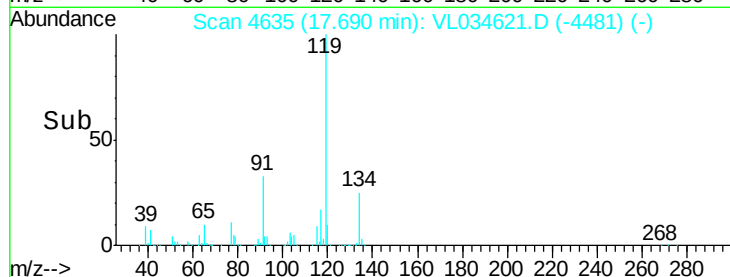
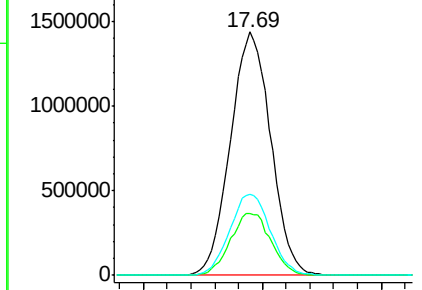


Abundance

Ion 119.10 (118.80 to 119.80): V

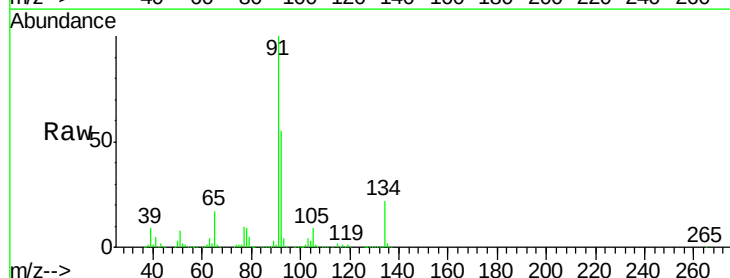
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
 n-Butylbenzene
 Concen: 9.765 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.6	65.4
134	22.5	18.2	27.4

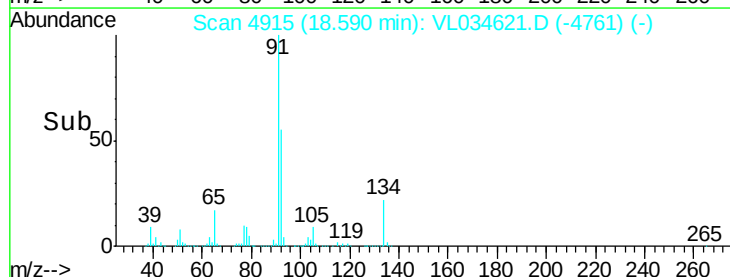
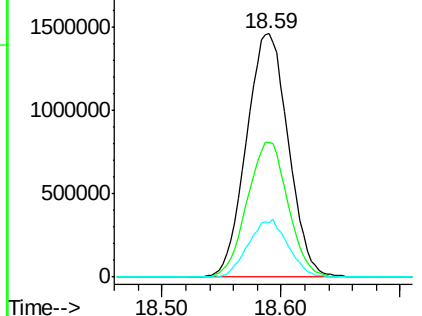


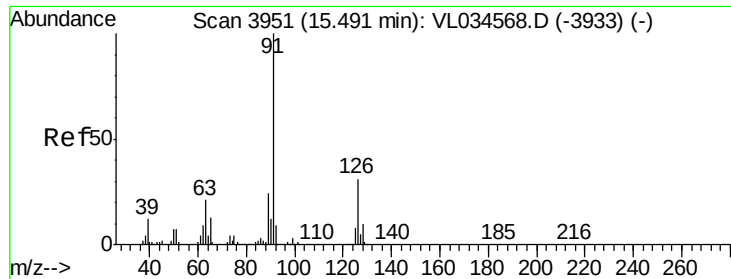
Abundance

Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.033 ppbv

RT: 15.49 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Instrument :

MSVOA_L

ClientSampleId :

VL0218ABS01

Tot Ion: 91 Resp: 2580157

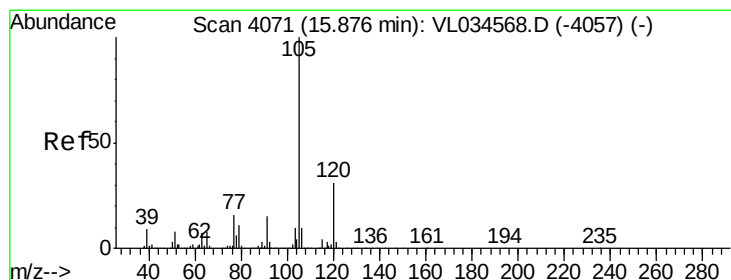
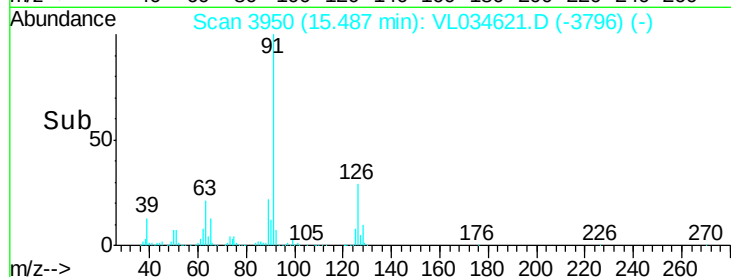
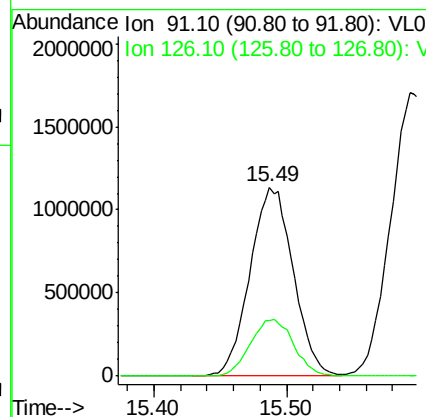
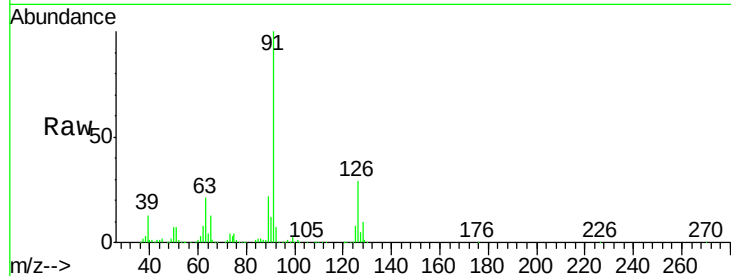
Ion Ratio Lower Upper

91 100

126 30.2 12.0 47.8

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#72

4-Ethyltoluene

Concen: 10.095 ppbv

RT: 15.88 min Scan# 4071

Delta R.T. -0.00 min

Lab File: VL034621.D

Acq: 18 Feb 2020 12:12

Tgt Ion:105 Resp: 2899061

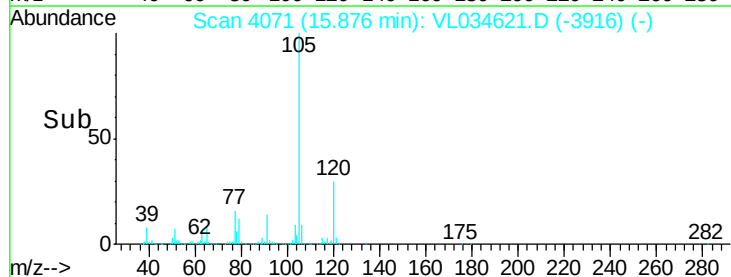
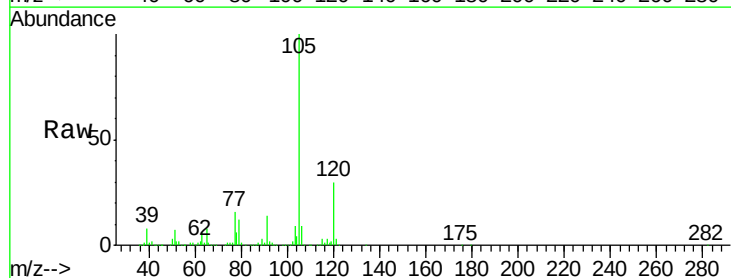
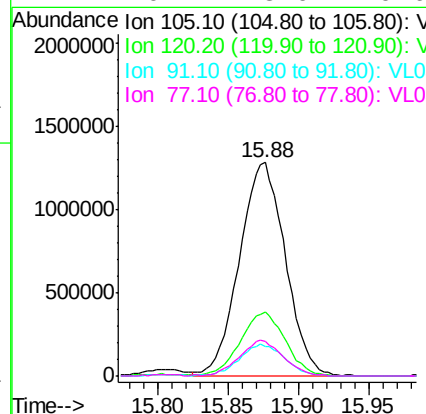
Ion Ratio Lower Upper

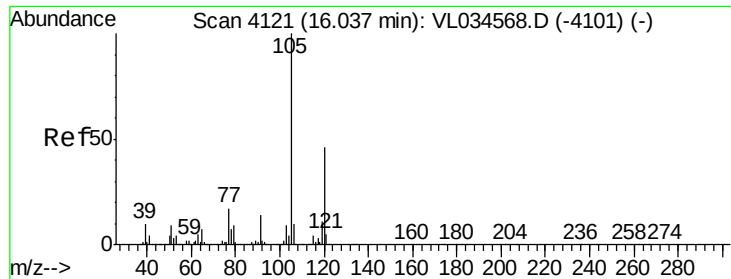
105 100

120 30.3 23.8 35.6

91 14.7 11.8 17.8

77 16.2 13.0 19.6





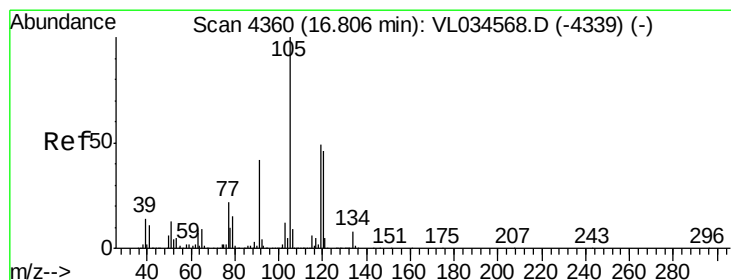
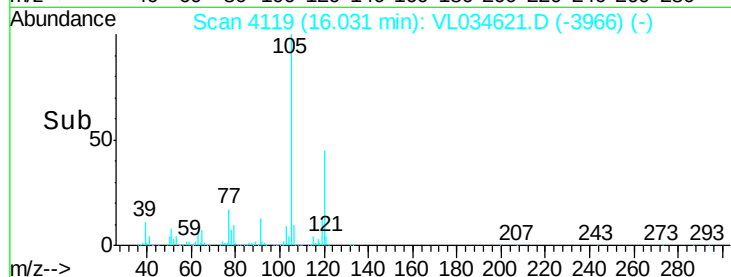
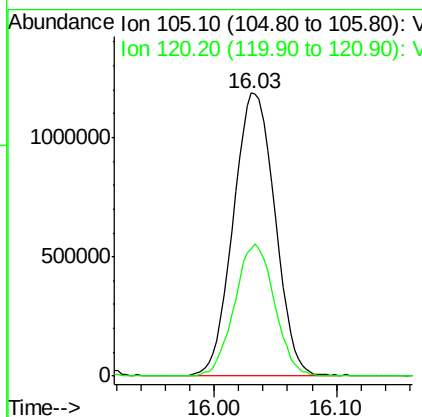
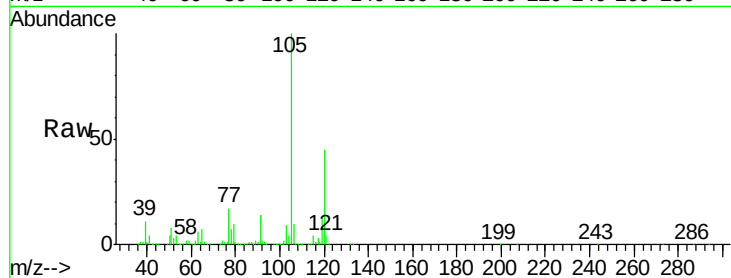
#73
 1,3,5-Trimethylbenzene
 Concen: 9.946 ppbv
 RT: 16.03 min Scan# 4119
 Delta R.T. -0.01 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion:105 Resp: 2790961
 Ion Ratio Lower Upper
 105 100
 120 44.9 37.0 55.6

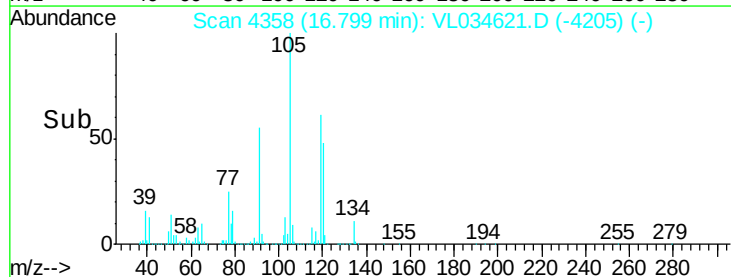
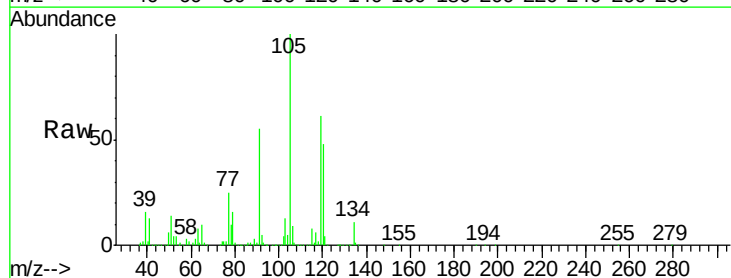
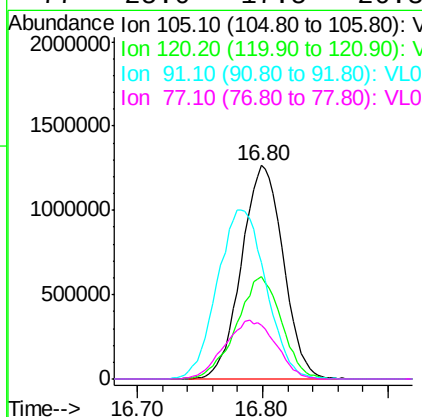
Manual Integrations
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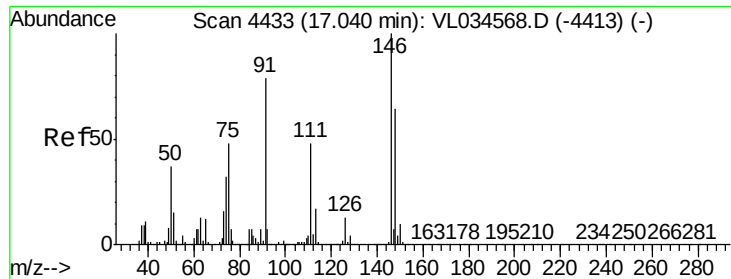
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#74
 1,2,4-Trimethylbenzene
 Concen: 9.408 ppbv
 RT: 16.80 min Scan# 4358
 Delta R.T. -0.01 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion:105 Resp: 2922671
 Ion Ratio Lower Upper
 105 100
 120 47.5 37.1 55.7
 91 54.5 34.3 51.5#
 77 25.0 17.5 26.3





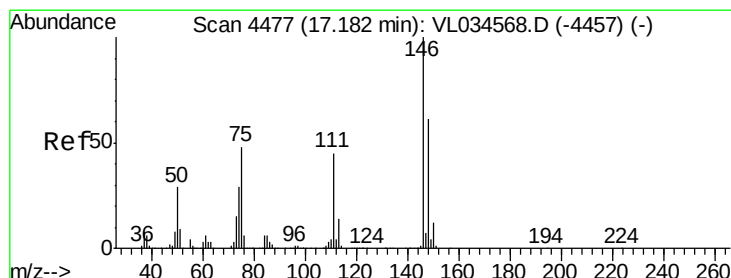
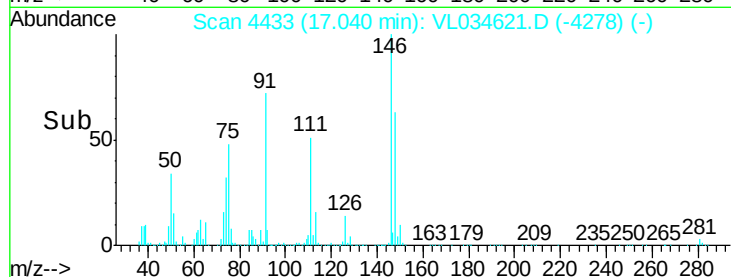
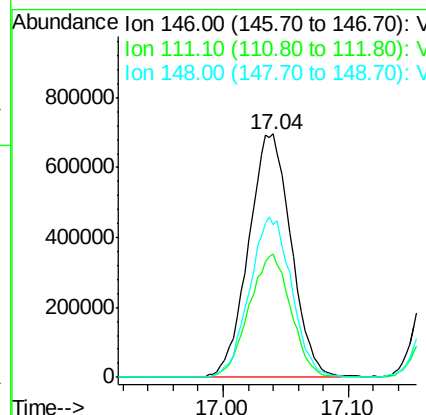
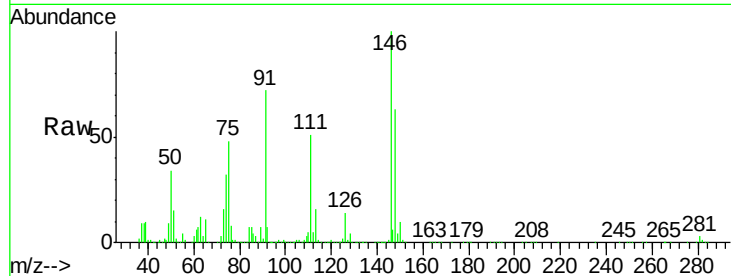
#75
 1,3-Dichlorobenzene
 Concen: 9.166 ppbv
 RT: 17.04 min Scan# 4433
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.7	74.1
148	65.2	32.8	98.4

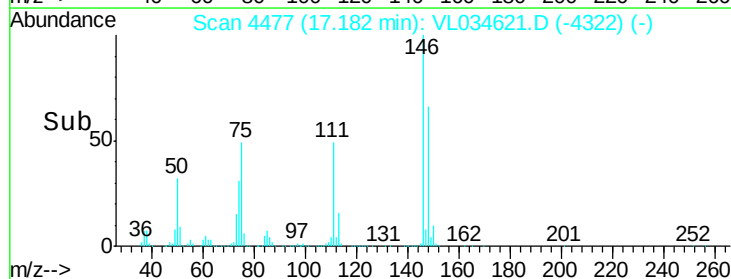
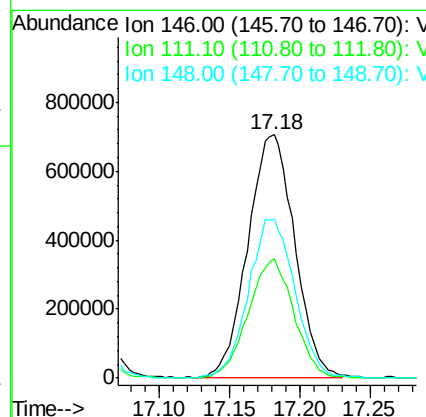
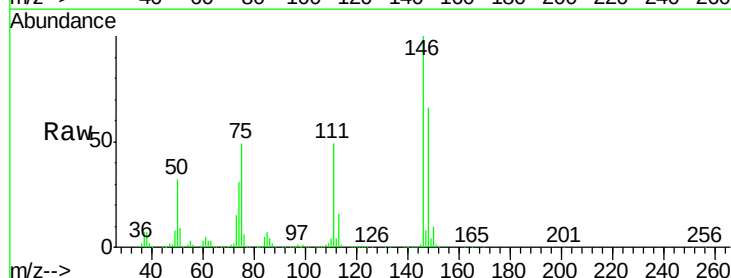
Manual Integrations
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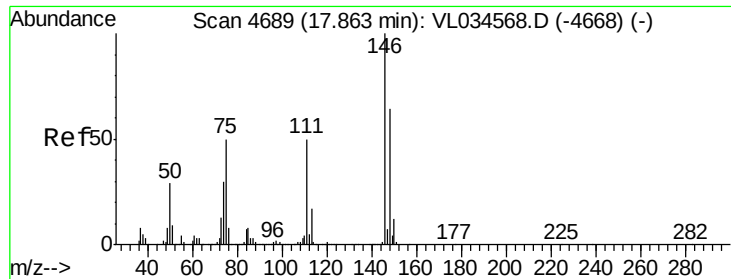
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#76
 1,4-Dichlorobenzene
 Concen: 9.305 ppbv
 RT: 17.18 min Scan# 4477
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.4	24.1	72.2
148	65.2	32.6	98.0





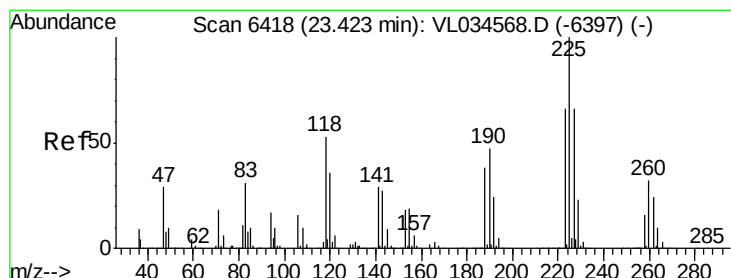
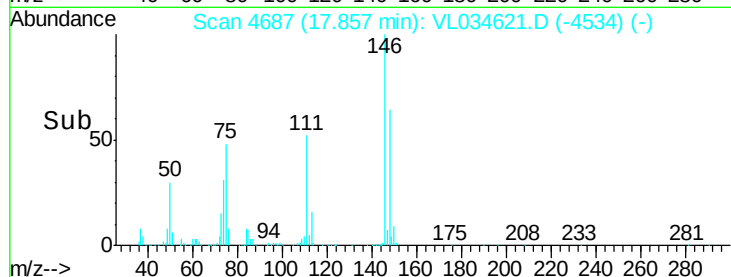
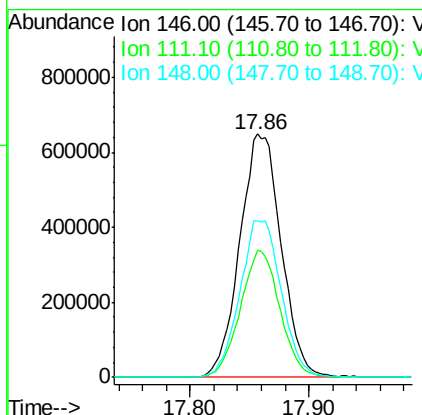
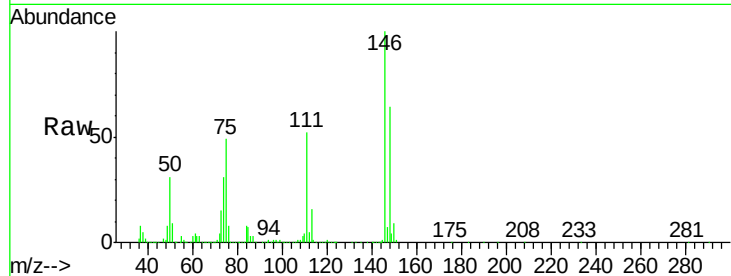
#77
 1,2-Dichlorobenzene
 Concen: 9.053 ppbv
 RT: 17.86 min Scan# 4687
 Delta R.T. -0.01 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion:146 Resp: 1555641
 Ion Ratio Lower Upper
 146 100
 111 50.3 25.1 75.3
 148 65.0 32.2 96.6

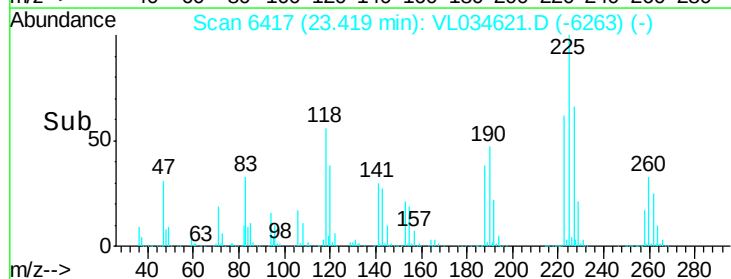
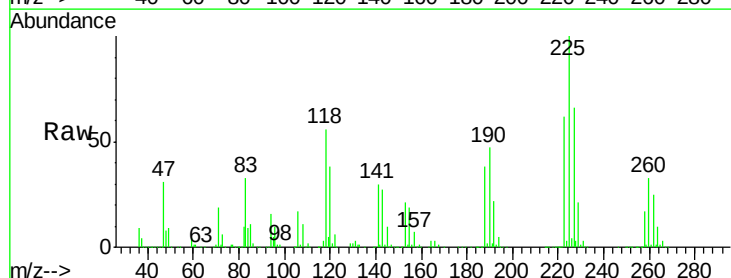
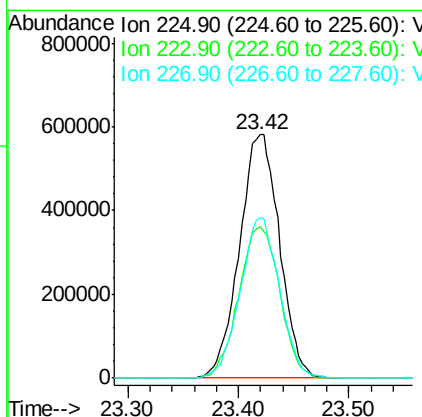
Manual Integrations
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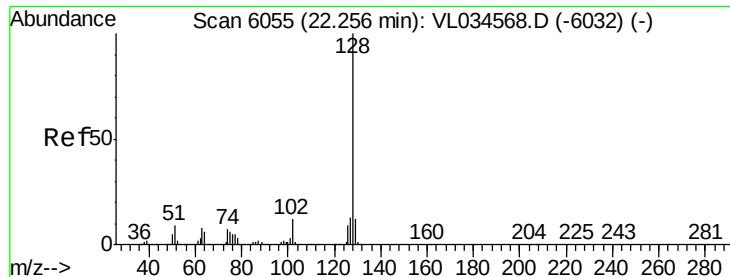
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 2/21/2020 3:25:25 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.901 ppbv
 RT: 23.42 min Scan# 6417
 Delta R.T. -0.00 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Tgt Ion:225 Resp: 1462607
 Ion Ratio Lower Upper
 225 100
 223 63.7 50.9 76.3
 227 64.6 51.6 77.4





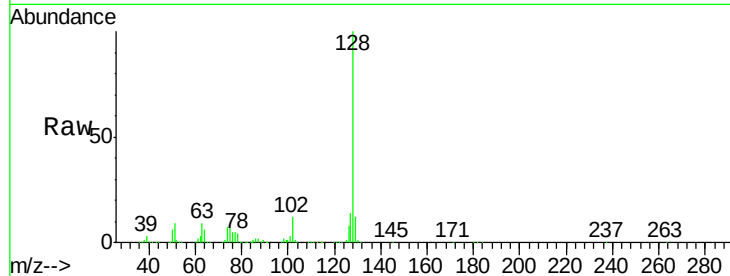
#79
Naphthalene
Concen: 10.072 ppbv
RT: 22.26 min Scan# 6055
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Instrument :
MSVOA_L
ClientSampleId :
VL0218ABS01

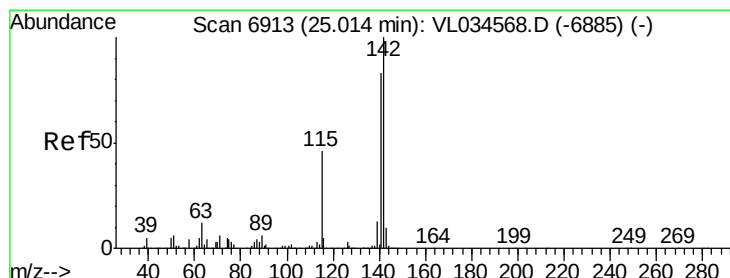
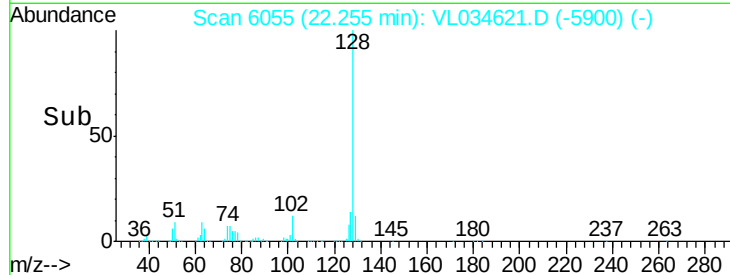
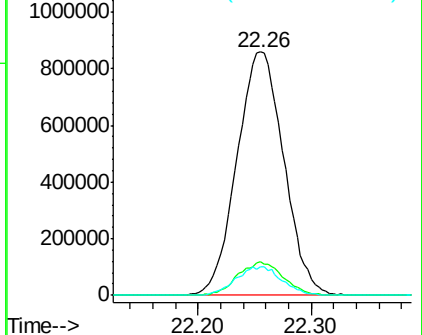
Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.1	15.1
129	11.7	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
2/21/2020 3:25:25 PM

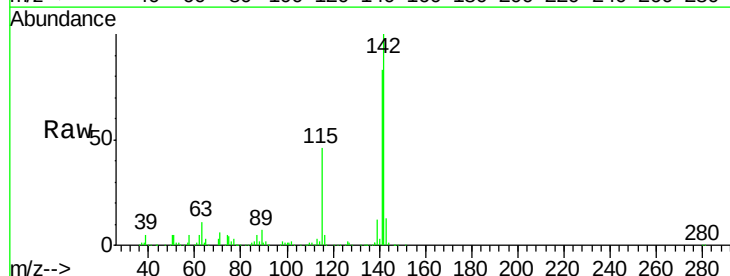


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

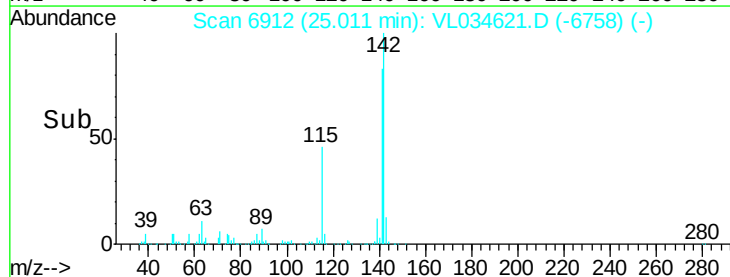
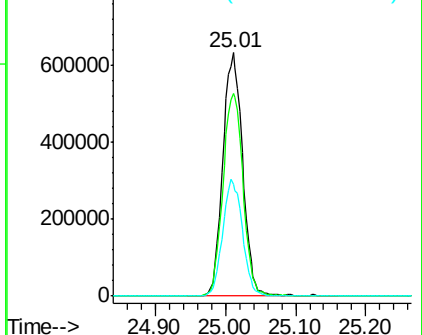


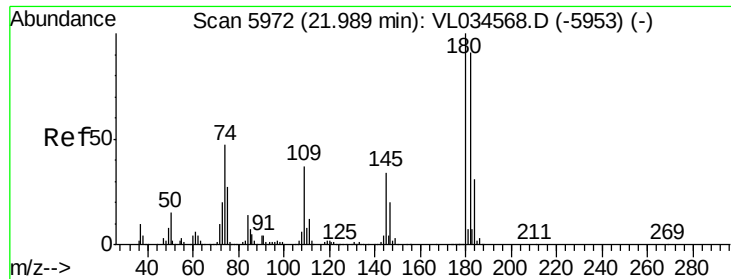
#80
Naphthalene, 2-methyl-
Concen: 13.249 ppbv
RT: 25.01 min Scan# 6912
Delta R.T. -0.00 min
Lab File: VL034621.D
Acq: 18 Feb 2020 12:12

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.5	67.0	100.4
115	47.8	39.5	59.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





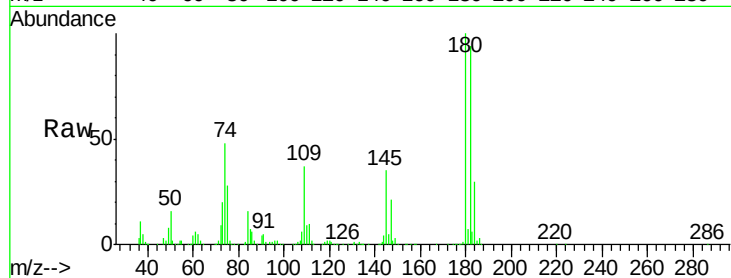
#81
 1,2,4-Trichlorobenzene
 Concen: 10.074 ppbv
 RT: 21.98 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL034621.D
 Acq: 18 Feb 2020 12:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0218ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.8	116.6
184	30.6	25.4	38.0

Manual Integrations
 APPROVED

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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

