

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\
 Data File : VL032872.D
 Acq On : 1 Dec 2018 6:03
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/3/2018 4:17:23 PM

Quant Time: Dec 03 00:32:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 1
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1357733	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3429059	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3469707	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2523754	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1724508	8.836	ppbv	99
3) Chlorodifluoromethane	3.02	51	1024700	9.520	ppbv	99
4) Chloromethane	3.18	50	586964	9.834	ppbv	98
5) Vinyl Chloride	3.30	62	599386	9.477	ppbv	98
6) Bromomethane	3.52	94	541366	13.992	ppbv	90
7) Chloroethane	3.61	64	320342	14.053	ppbv	93
8) Dichlorotetrafluoroethane	3.23	85	1458335	9.482	ppbv	96
9) Propene	3.04	41	458611	10.646	ppbv	99
10) Heptane	8.25	43	1788600	10.876	ppbv	99
11) Trichlorofluoromethane	4.01	101	2185760	11.884	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1420742	9.457	ppbv	95
13) Ethanol	3.66	45	150500	10.667	ppbv	100
14) Bromoethene	3.80	108	713653	14.318	ppbv	100
15) Acetone	3.91	43	1481501	11.948	ppbv	99
16) 1,3-Butadiene	3.37	39	476142	9.916	ppbv	88
17) tert-Butyl alcohol	4.37	59	448459	11.532	ppbv	100
18) 1,1-Dichloroethene	4.36	96	784847	10.624	ppbv	96
19) Isopropyl Alcohol	4.03	45	1047392	12.680	ppbv	99
20) Methylene Chloride	4.42	84	644273	10.037	ppbv	99
21) Allyl Chloride	4.49	41	1028032	9.866	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	767212	10.635	ppbv	96
23) Vinyl Acetate	5.16	43	2556016	11.309	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1818684	10.121	ppbv	98
25) Ethyl Acetate	5.78	43	3103080	10.738	ppbv	100
26) Hexane	5.79	57	1429883	11.115	ppbv	99
27) Carbon Disulfide	4.63	76	1963357	12.036	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	2377321	11.588	ppbv	99
29) Chloroform	5.86	83	2362107	10.302	ppbv	95
30) Cyclohexane	7.26	84	1257042	11.172	ppbv	95
31) cis-1,2-Dichloroethene	5.65	61	1418720	10.969	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2409117	9.586	ppbv	99
34) 2-Butanone	5.34	43	1924746	10.822	ppbv	99
35) Carbon Tetrachloride	7.15	117	2592000	9.403	ppbv	99
36) Benzene	7.02	78	2960814	10.843	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1797004	9.776	ppbv	98
38) Trichloroethene	7.97	130	1191967	10.786	ppbv	100
39) 1,2-Dichloropropane	7.75	63	1100127	10.574	ppbv	95
40) 1,4-Dioxane	7.97	88	390510	10.509	ppbv	93
41) Tetrahydrofuran	6.16	42	1160249	11.373	ppbv	99
42) Bromodichloromethane	7.93	83	2484190	9.970	ppbv	100
43) Methyl Methacrylate	8.15	69	1145497	11.237	ppbv	97

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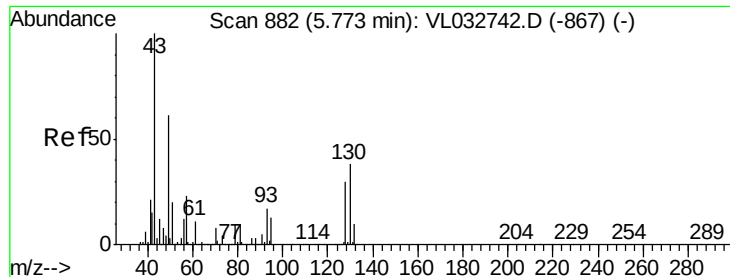
Manual Integrations
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 12/3/2018 4:17:23 PM

Quant Time: Dec 03 00:32:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4794005	10.506	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1710686	12.506	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	1826998	11.055	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	1253191	10.187	ppbv	96
48) Dibromochloromethane	10.46	129	2182276	10.437	ppbv	99
49) Bromoform	13.21	173	1751206	10.141	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2787815	10.036	ppbv	99
51) 2-Hexanone	10.28	43	2099737	11.733	ppbv	98
52) Tetrachloroethene	11.38	164	1062632	11.187	ppbv	95
53) Toluene	9.96	91	3395981	11.921	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1881613	10.820	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1537660	9.502	ppbv	98
57) Chlorobenzene	12.31	112	2570463	9.678	ppbv	97
58) Ethyl Benzene	12.88	91	4582002	10.973	ppbv	98
59) m/p-Xylene	13.16	91	7821392m	21.041	ppbv	
60) o-Xylene	13.86	91	3597792	9.626	ppbv	99
61) Styrene	13.70	104	2783021	11.438	ppbv	98
62) Isopropylbenzene	14.84	105	5156700	10.207	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2361501	8.105	ppbv	99
64) n-propylbenzene	15.73	120	1317994	9.918	ppbv	95
65) tert-Butylbenzene	16.92	119	4456387	9.840	ppbv	98
66) Benzyl Chloride	17.17	91	2502468	9.995	ppbv	99
67) sec-Butylbenzene	17.47	105	6239440	9.560	ppbv	100
69) p-Isopropyltoluene	17.83	119	5254782	10.126	ppbv	98
70) n-Butylbenzene	18.73	91	5273525	10.008	ppbv	100
71) 2-Chlorotoluene	15.63	91	3763581	9.989	ppbv	98
72) 4-Ethyltoluene	16.01	105	4144163	10.115	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3922626	9.793	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3990465	9.310	ppbv	94
75) 1,3-Dichlorobenzene	17.18	146	2286233	9.299	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2244307	9.772	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2222463	9.771	ppbv	100
78) Hexachloro-1,3-Butadiene	23.56	225	1691110	13.776	ppbv	99
79) Naphthalene	22.42	128	3945006	14.010	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1084284	15.375	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1887616	13.349	ppbv	99

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



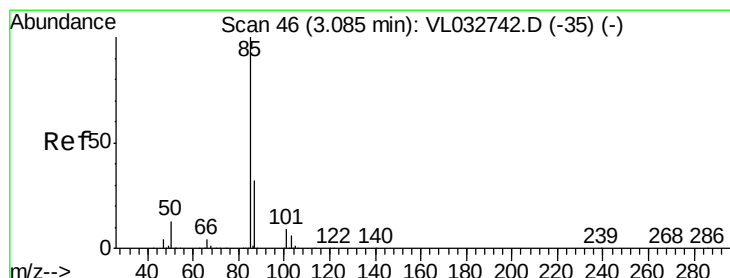
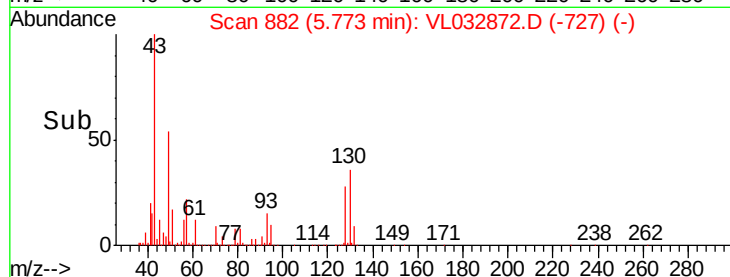
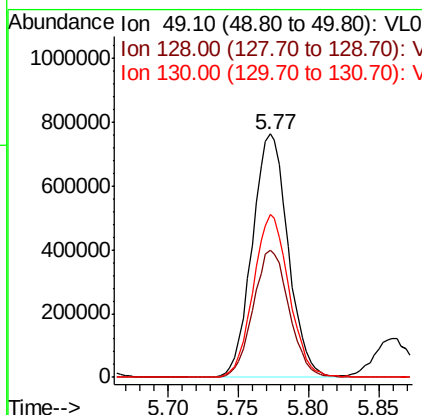
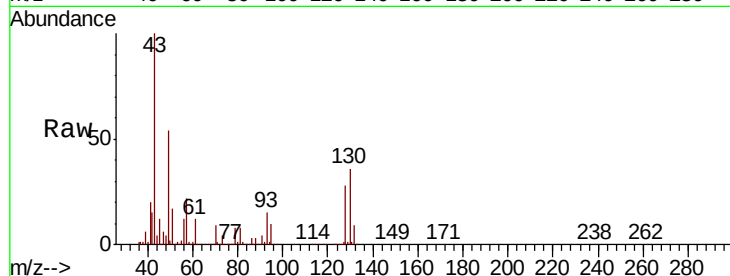
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 49 Resp: 1357733
Ion Ratio Lower Upper
49 100
128 52.7 24.9 74.6
130 67.0 31.4 94.2

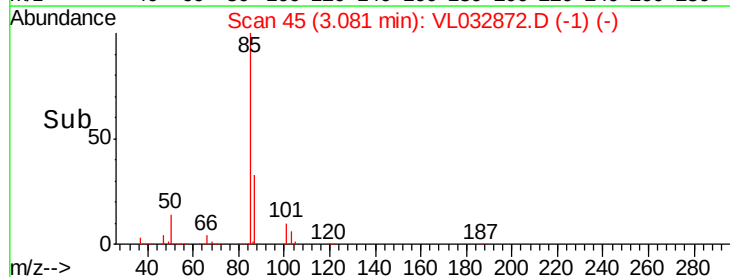
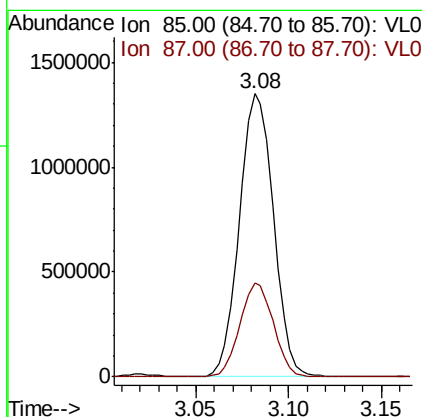
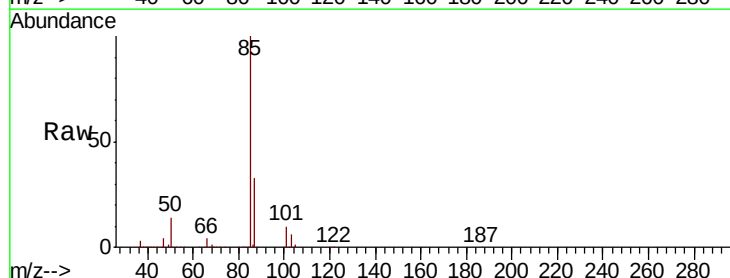
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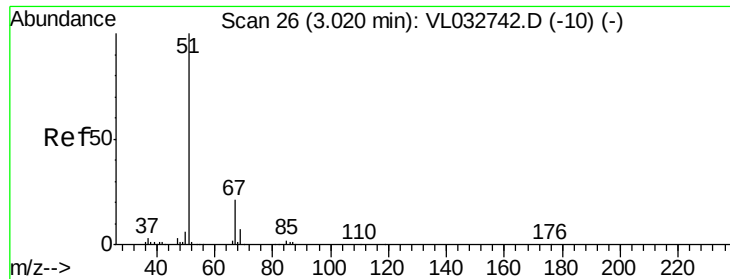
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#2
Dichlorodifluoromethane
Concen: 8.836 ppbv
RT: 3.08 min Scan# 45
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion: 85 Resp: 1724508
Ion Ratio Lower Upper
85 100
87 33.0 26.0 39.0





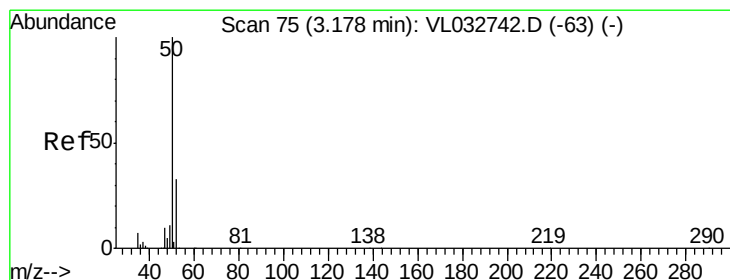
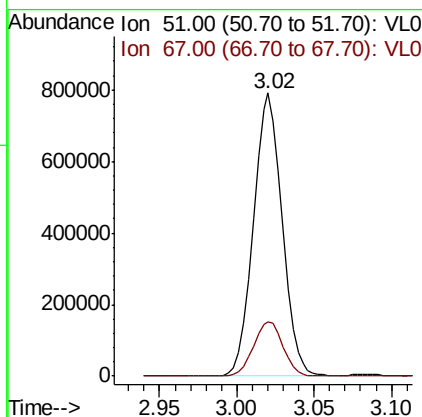
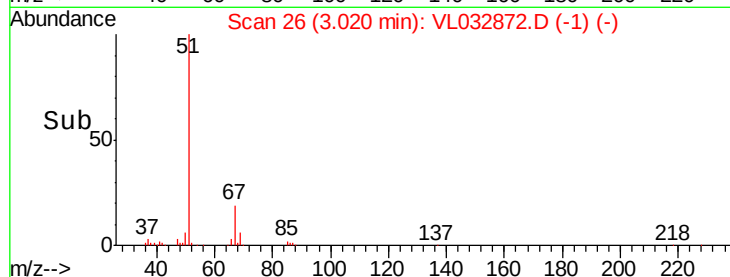
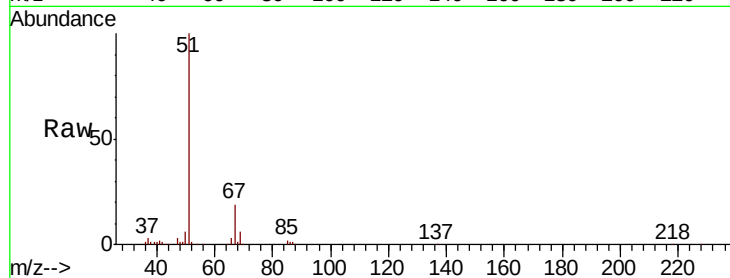
#3
Chlorodifluoromethane
Concen: 9.520 ppbv
RT: 3.02 min Scan# 26
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 51 Resp: 1024700
Ion Ratio Lower Upper
51 100
67 19.8 16.1 24.1

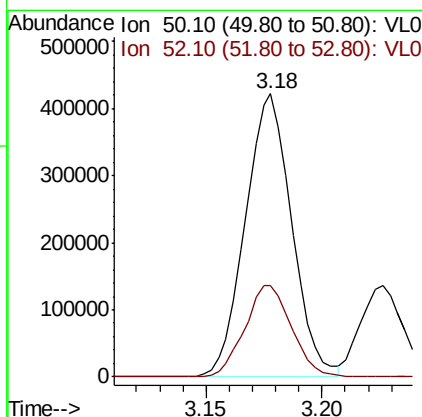
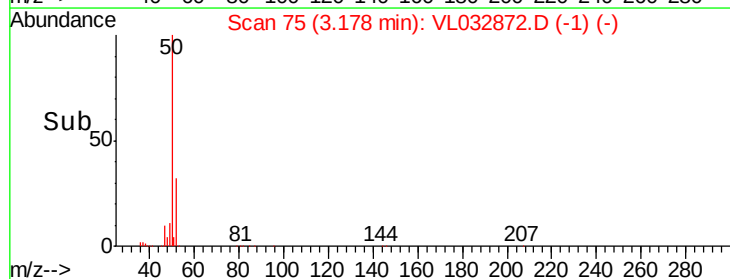
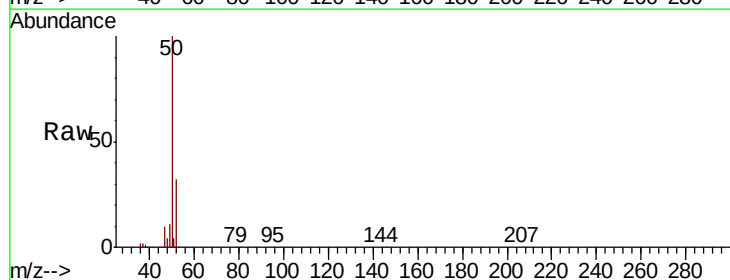
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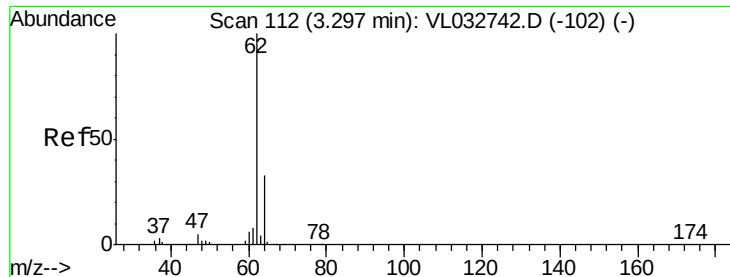
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#4
Chloromethane
Concen: 9.834 ppbv
RT: 3.18 min Scan# 75
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion: 50 Resp: 586964
Ion Ratio Lower Upper
50 100
52 32.3 26.6 40.0





#5

Vinyl Chloride

Concen: 9.477 ppbv

RT: 3.30 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 599386

Ion Ratio Lower Upper

62 100

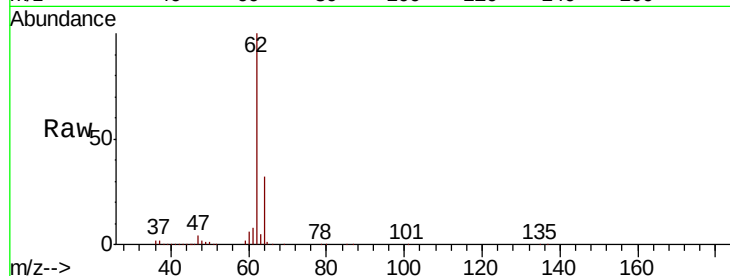
64 31.6 26.2 39.4

Manual Integrations

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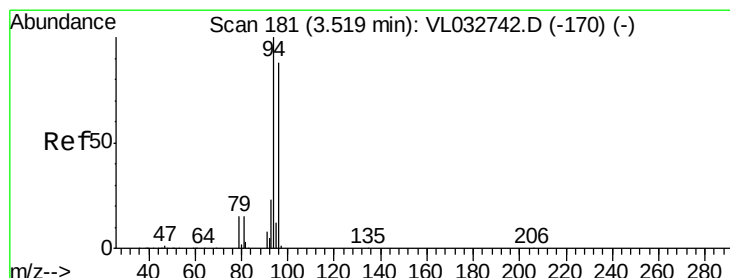
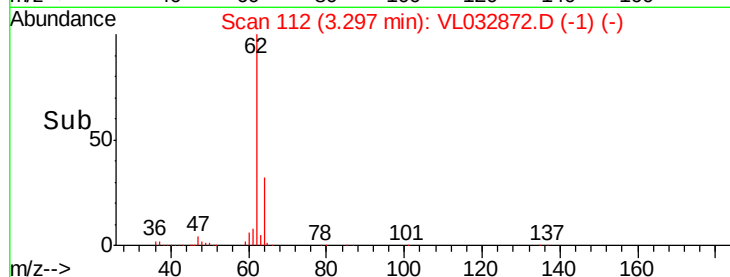
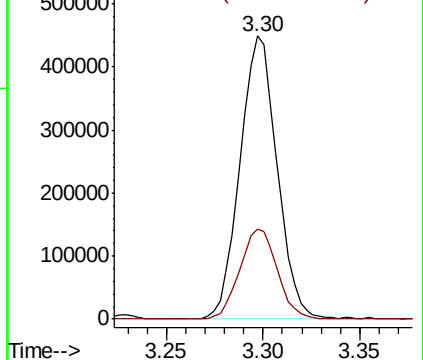
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 13.992 ppbv

RT: 3.52 min Scan# 182

Delta R.T. 0.00 min

Lab File: VL032872.D

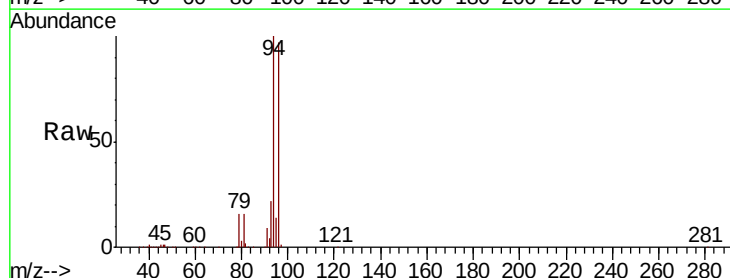
Acq: 1 Dec 2018 6:03

Tgt Ion: 94 Resp: 541366

Ion Ratio Lower Upper

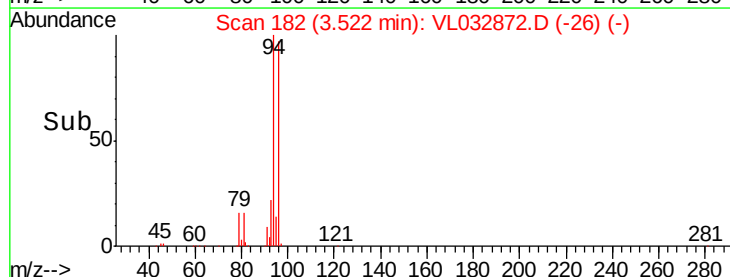
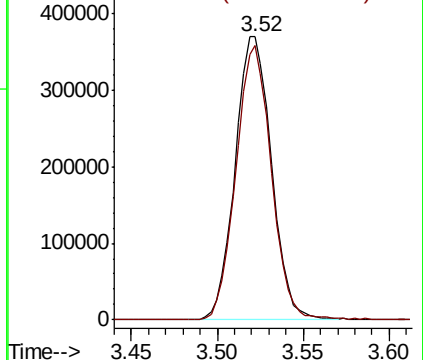
94 100

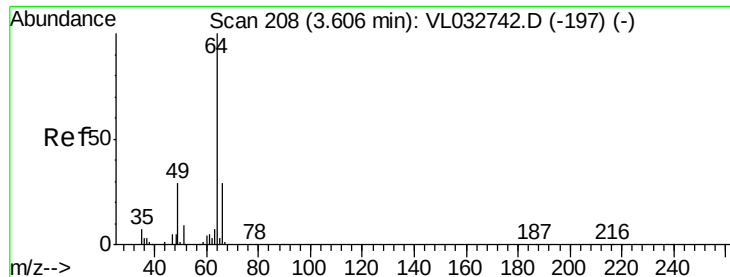
96 97.0 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 14.053 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 320342

Ion Ratio Lower Upper

64 100

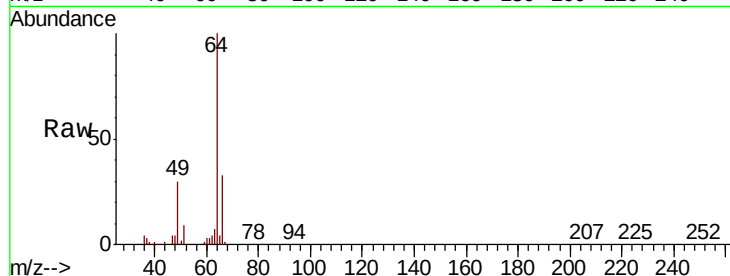
66 32.9 23.2 34.8

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.61

250000

200000

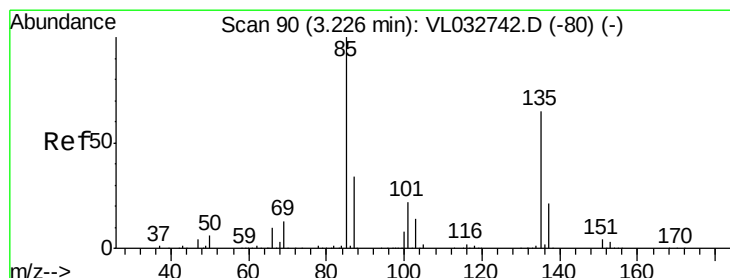
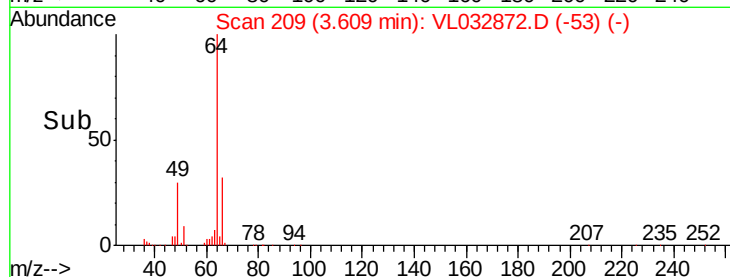
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.482 ppbv

RT: 3.23 min Scan# 90

Delta R.T. -0.00 min

Lab File: VL032872.D

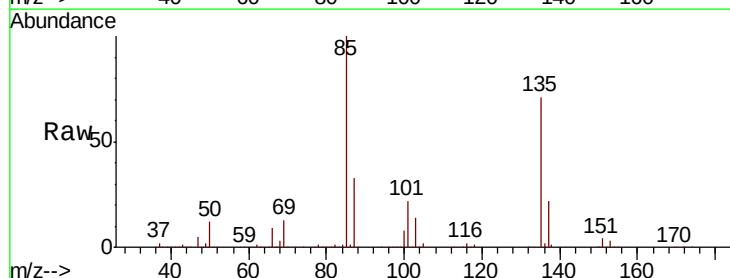
Acq: 1 Dec 2018 6:03

Tgt Ion: 85 Resp: 1458335

Ion Ratio Lower Upper

85 100

135 70.3 53.8 80.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.23

1200000

1000000

800000

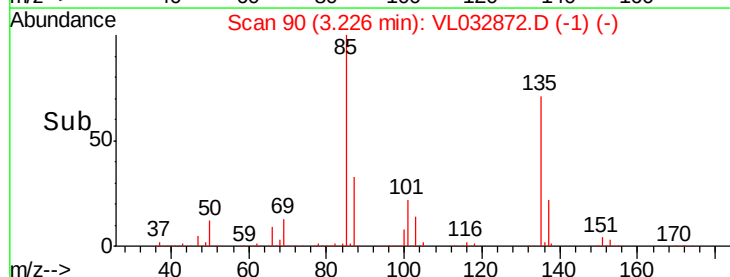
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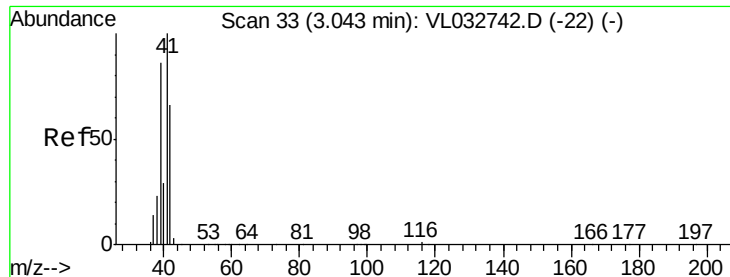
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200000

0

Time-->





#9

Propene

Concen: 10.646 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 458611

Ion Ratio Lower Upper

41 100

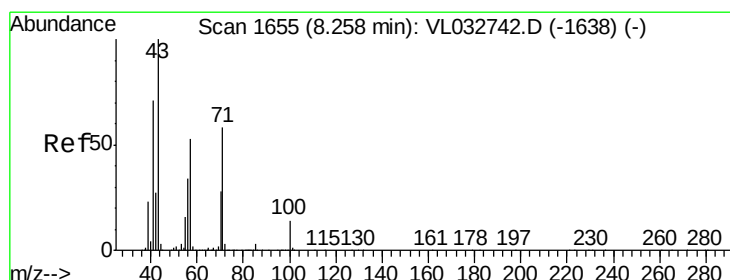
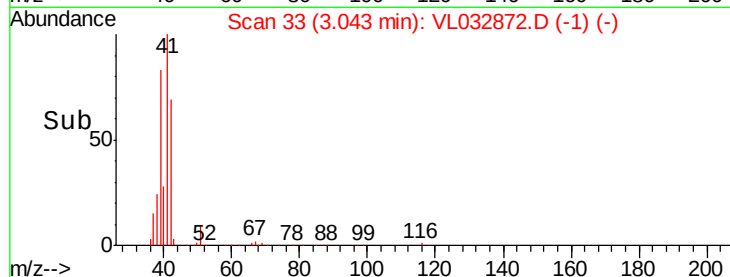
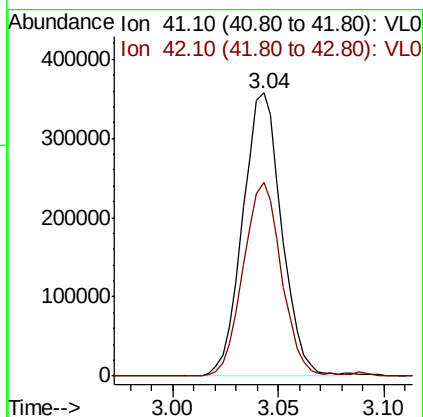
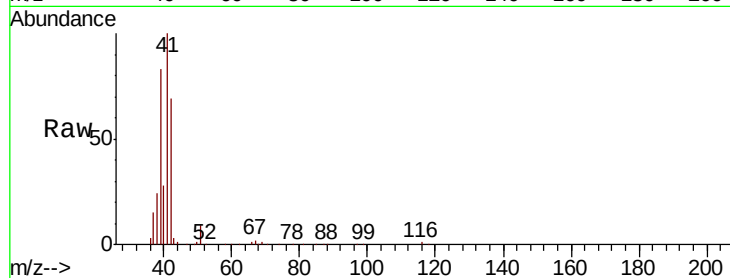
42 68.3 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 10.876 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032872.D

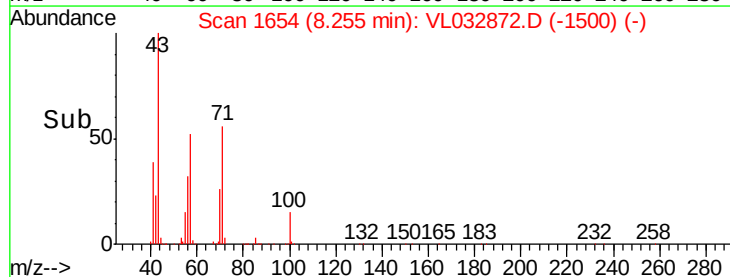
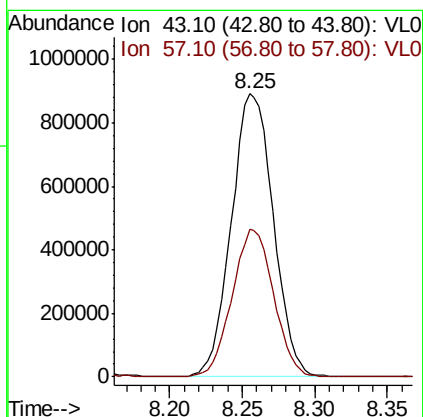
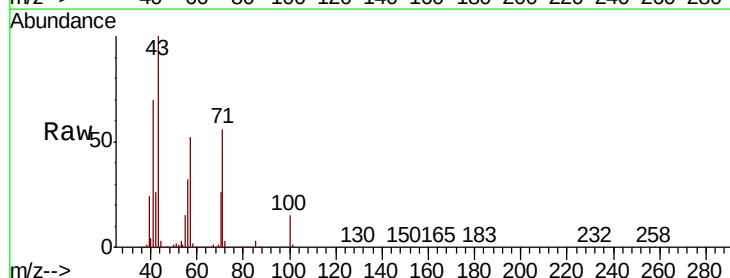
Acq: 1 Dec 2018 6:03

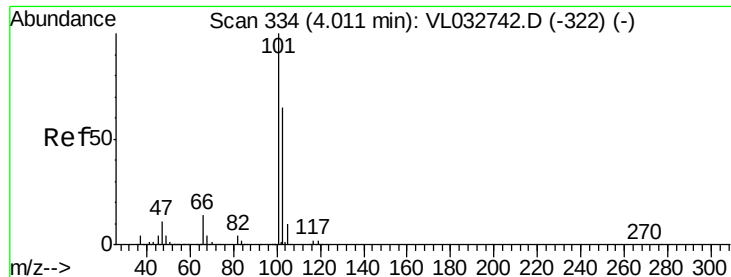
Tgt Ion: 43 Resp: 1788600

Ion Ratio Lower Upper

43 100

57 51.7 41.8 62.8





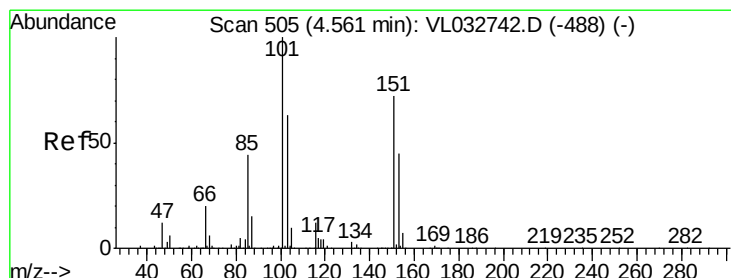
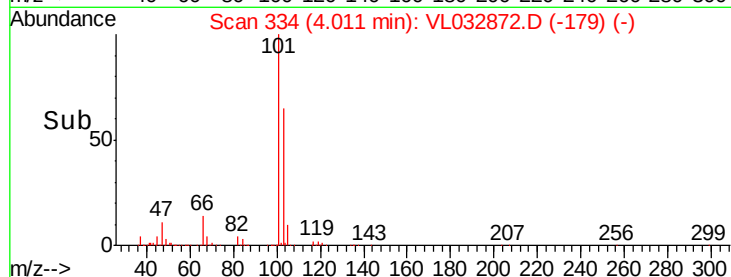
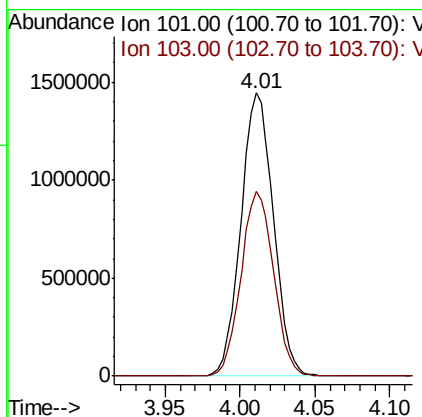
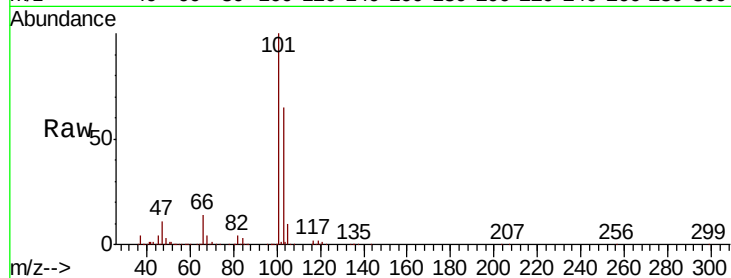
#11
 Trichlorofluoromethane
 Concen: 11.884 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2185760
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.6 77.4

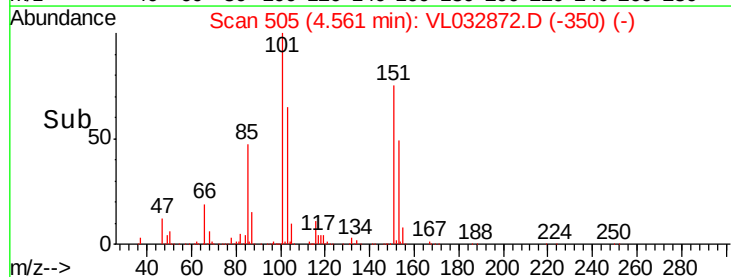
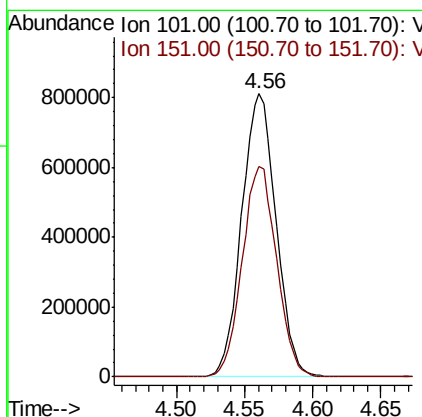
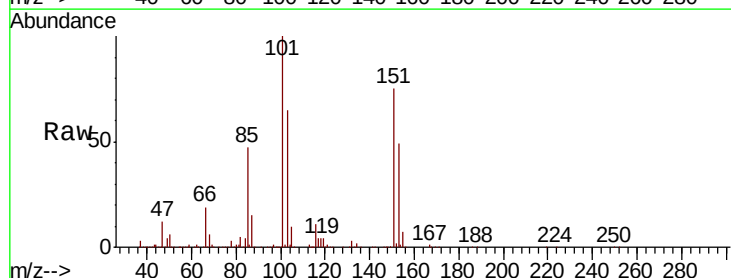
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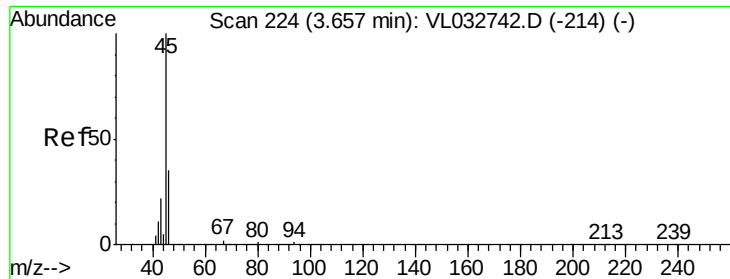
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.457 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion:101 Resp: 1420742
 Ion Ratio Lower Upper
 101 100
 151 74.7 56.7 85.1





#13

Ethanol

Concen: 10.667 ppbv

RT: 3.66 min Scan# 224

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 150500

Ion Ratio Lower Upper

45 100

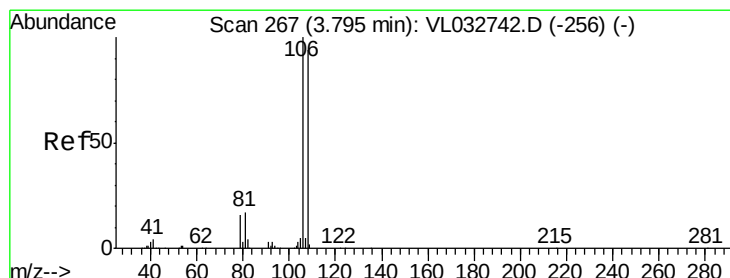
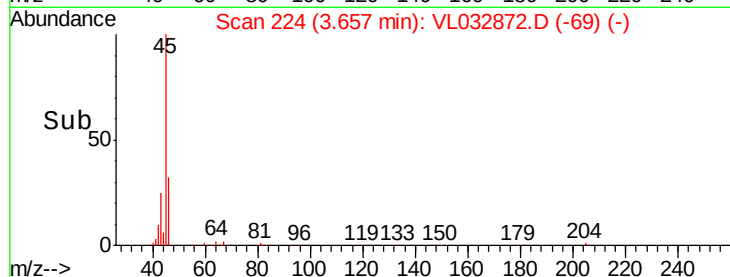
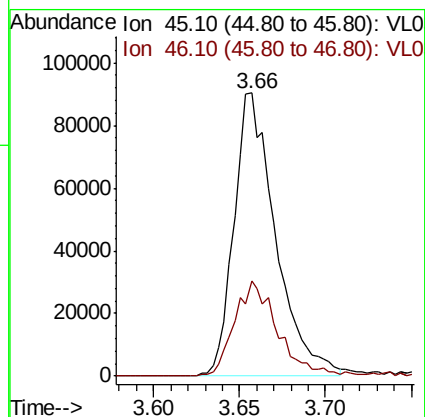
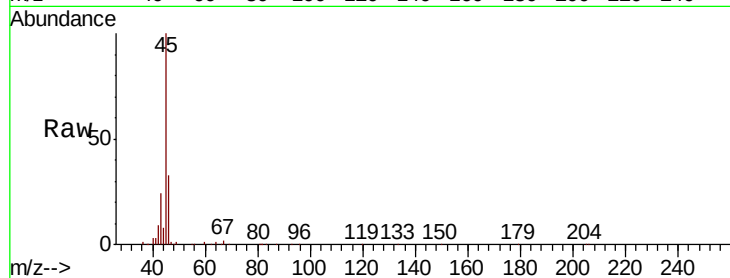
46 36.2 14.5 57.9

Manual Integrations

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#14

Bromoethene

Concen: 14.318 ppbv

RT: 3.80 min Scan# 267

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

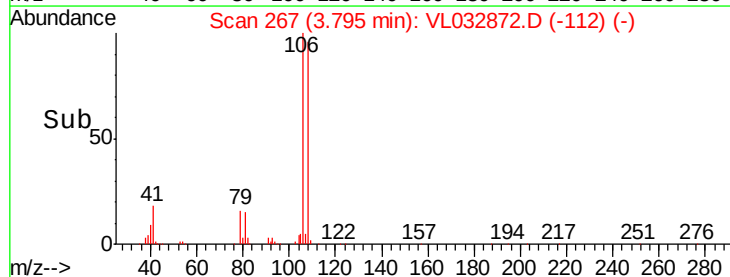
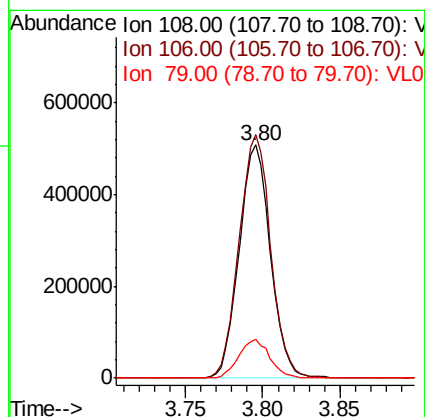
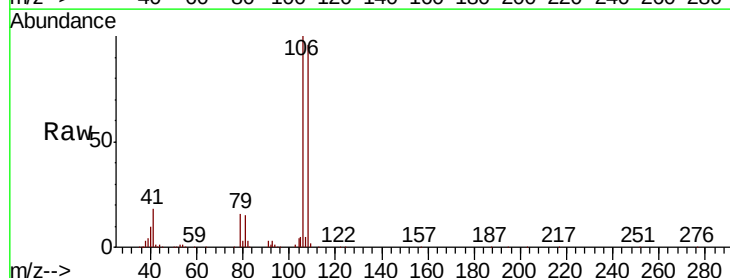
Tgt Ion: 108 Resp: 713653

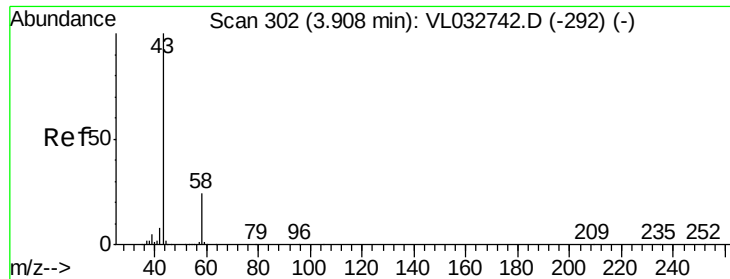
Ion Ratio Lower Upper

108 100

106 106.1 84.9 127.3

79 16.7 14.2 21.4





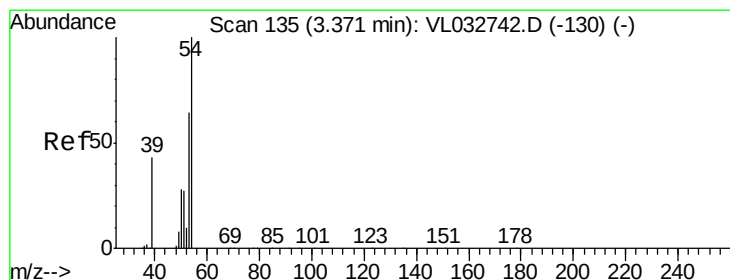
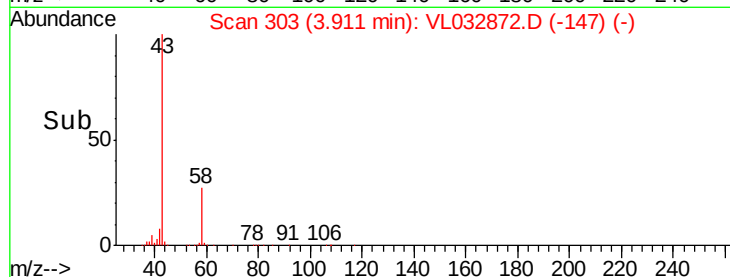
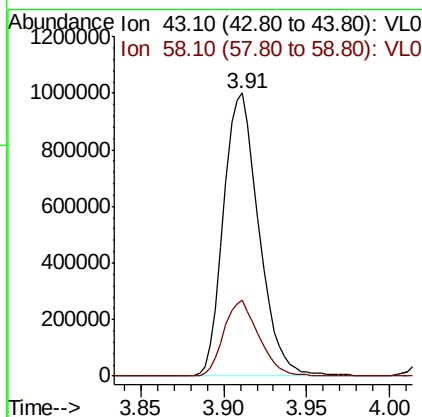
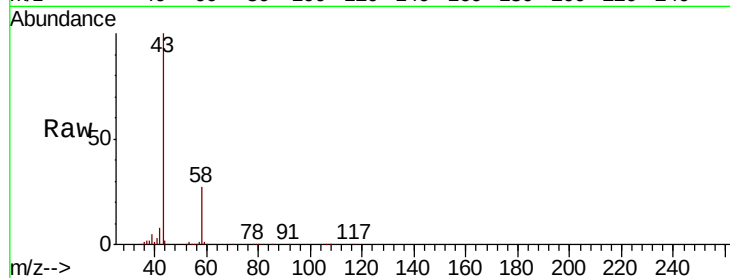
#15
Acetone
Concen: 11.948 ppbv
RT: 3.91 min Scan# 303
Delta R.T. 0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1481501
Ion Ratio Lower Upper
43 100
58 26.8 21.1 31.7

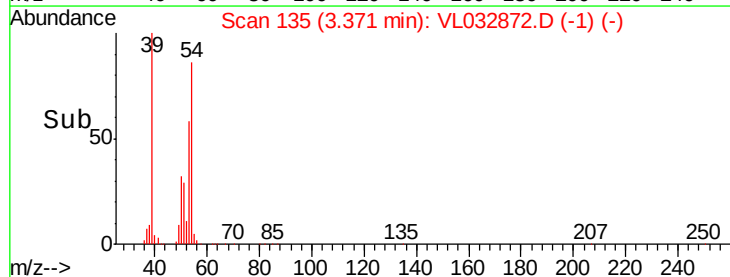
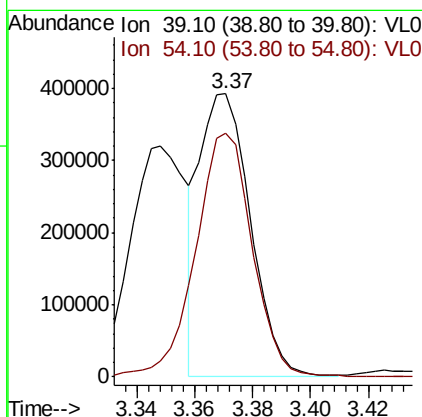
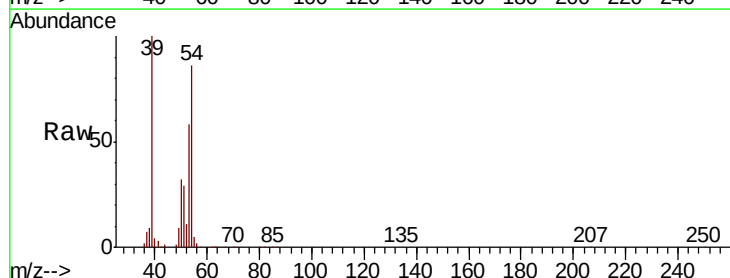
Manual Integrations
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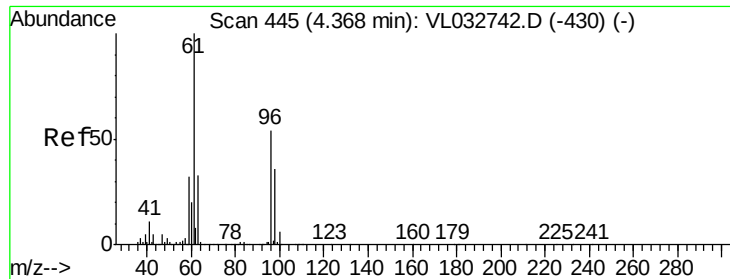
MMDadoda
12/3/2018 4:17:23 PM



#16
1,3-Butadiene
Concen: 9.916 ppbv
RT: 3.37 min Scan# 135
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion: 39 Resp: 476142
Ion Ratio Lower Upper
39 100
54 97.2 68.9 103.3





#17

tert-Butyl alcohol

Concen: 11.532 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 59 Resp: 448459

Ion Ratio Lower Upper

59 100

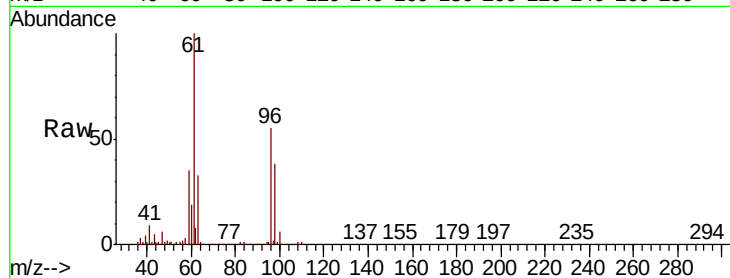
57 9.8 7.8 11.8

Manual Integrations

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.37

250000

200000

150000

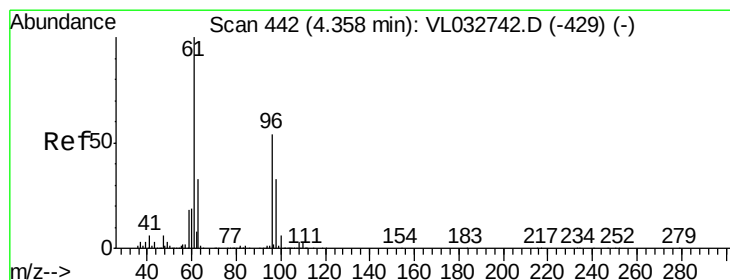
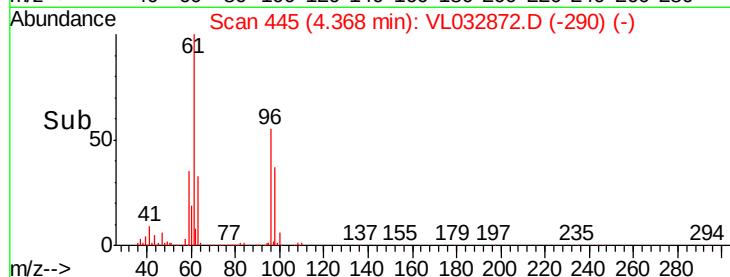
100000

50000

0

Time-->

4.30 4.35 4.40 4.45



#18

1,1-Dichloroethene

Concen: 10.624 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

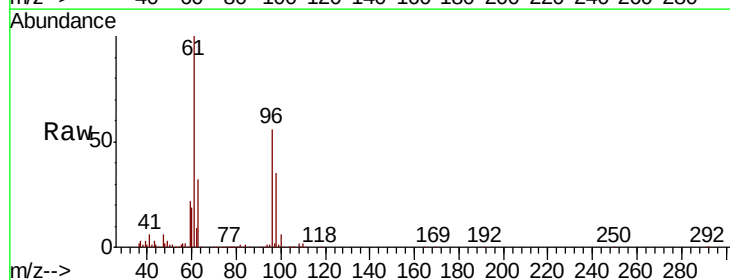
Tgt Ion: 96 Resp: 784847

Ion Ratio Lower Upper

96 100

61 180.1 148.5 222.7

98 63.7 48.6 72.8



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

1200000

1000000

800000

600000

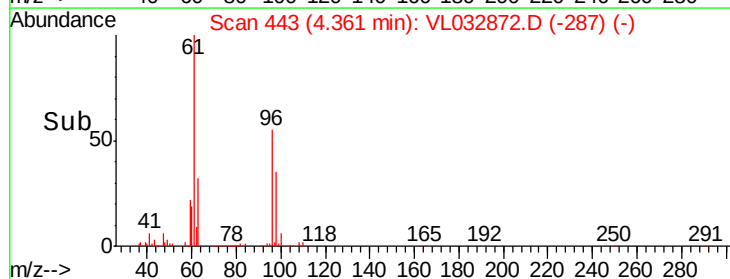
400000

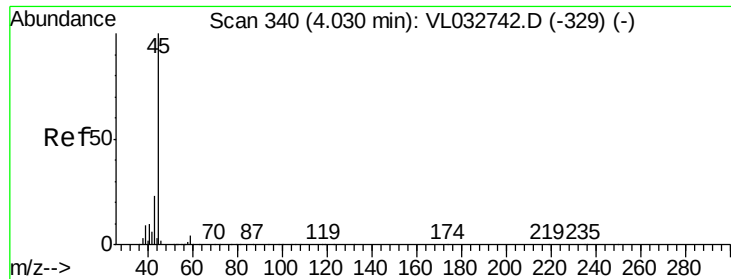
200000

0

Time-->

4.30 4.35 4.40





#19

Isopropyl Alcohol

Concen: 12.680 ppbv

RT: 4.03 min Scan# 340

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Tot Ion: 45 Resp: 1047392

Ion Ratio Lower Upper

45 100

58 1.4 1.4 2.0

Instrument :

MSVOA_L

ClientSampleId :

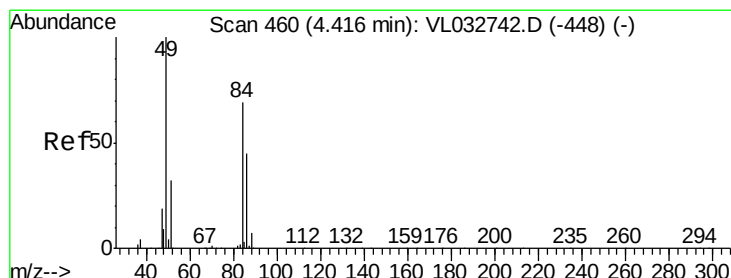
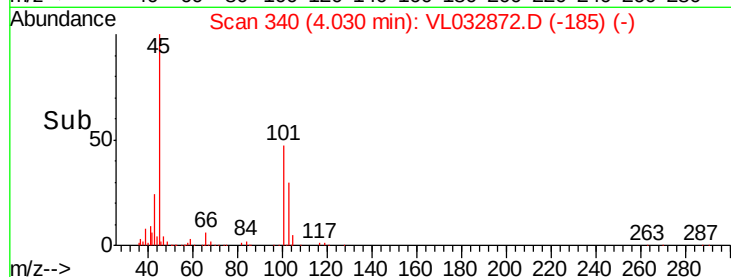
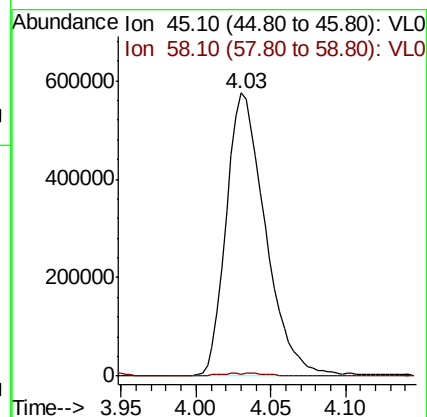
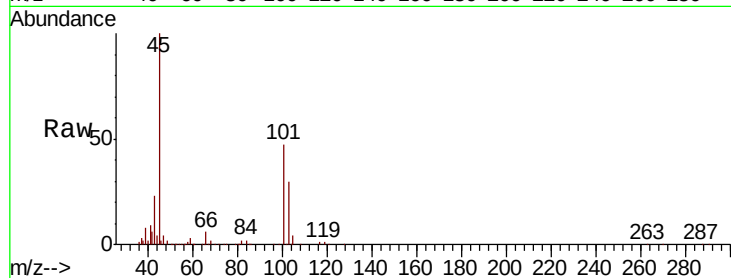
VSTDCCC010EC

Manual Integrations

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MMDadoda

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#20

Methylene Chloride

Concen: 10.037 ppbv

RT: 4.42 min Scan# 460

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Tgt Ion: 84 Resp: 644273

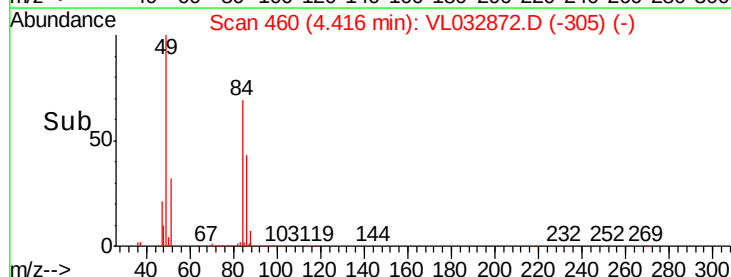
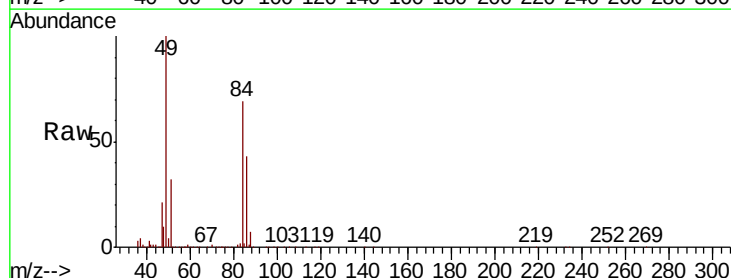
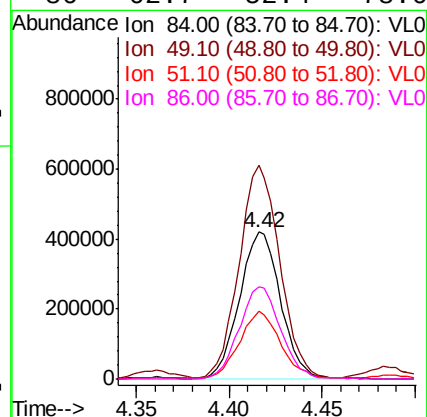
Ion Ratio Lower Upper

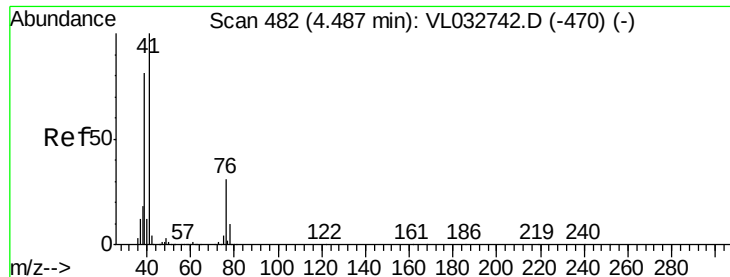
84 100

49 144.9 115.8 173.6

51 46.1 36.9 55.3

86 62.7 52.4 78.6





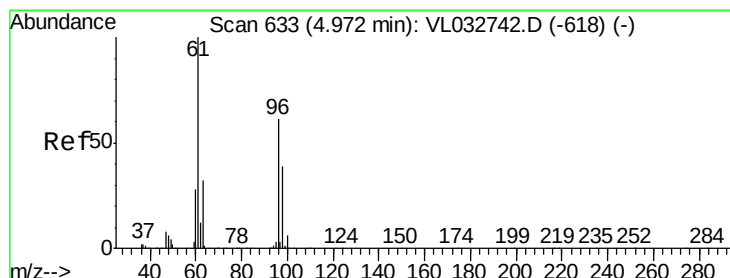
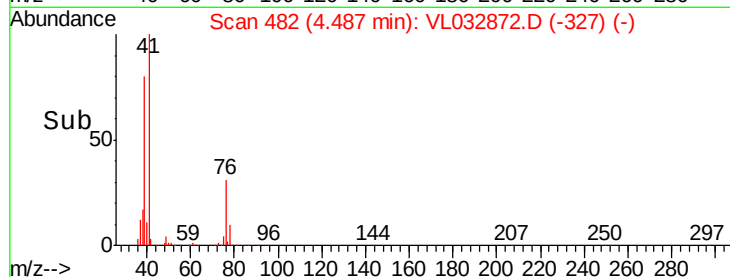
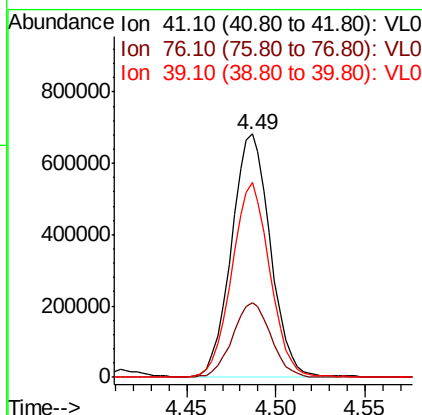
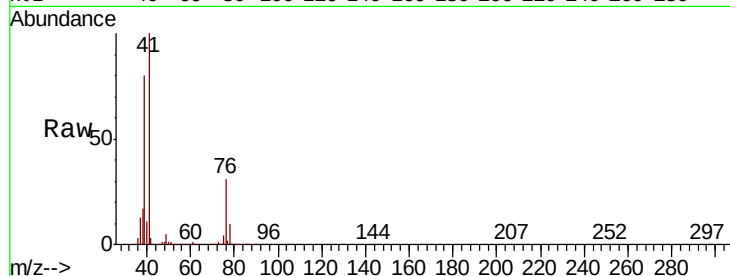
#21
Allvl Chloride
Concen: 9.866 ppbv
RT: 4.49 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.7	24.4	36.6
39	78.9	63.5	95.3

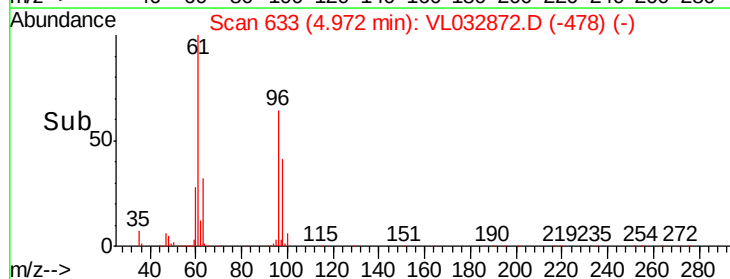
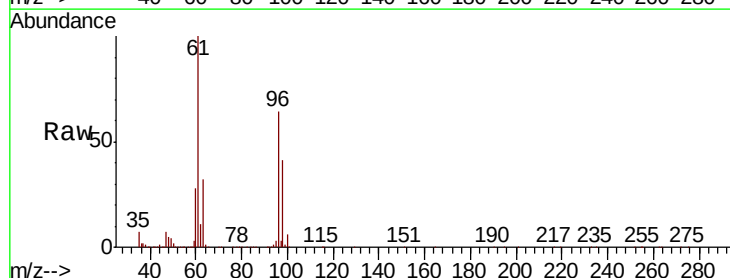
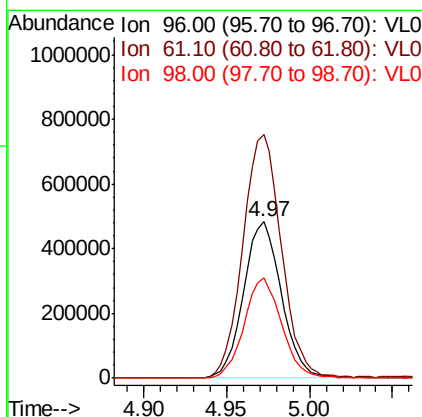
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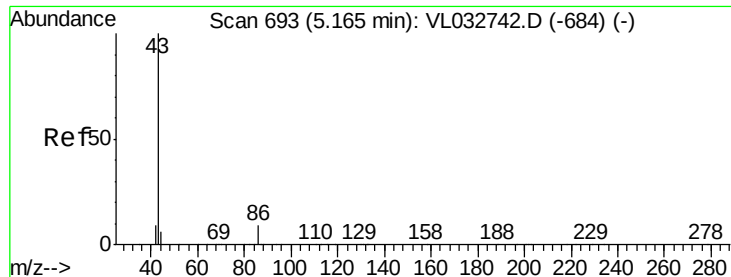
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.635 ppbv
RT: 4.97 min Scan# 633
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.0	130.2	195.2
98	64.2	50.2	75.2





#23

Vinyl Acetate

Concen: 11.309 ppbv

RT: 5.16 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2556016

Ion Ratio Lower Upper

43 100

86 8.3 6.2 9.4

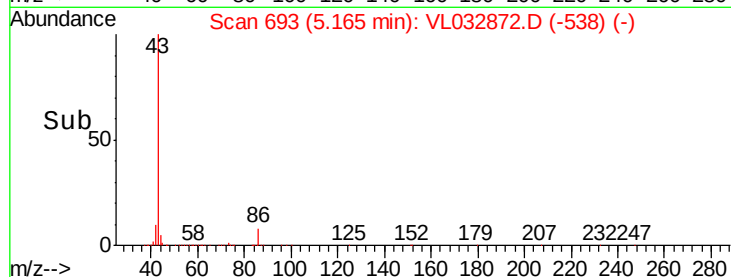
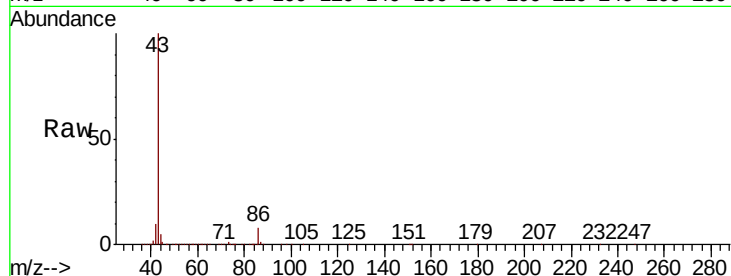
42 10.0 7.8 11.6

44 5.0 4.4 6.6

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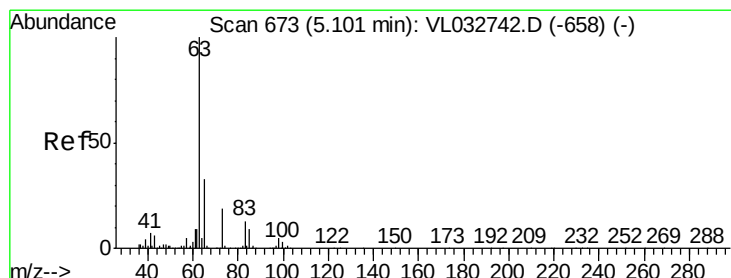
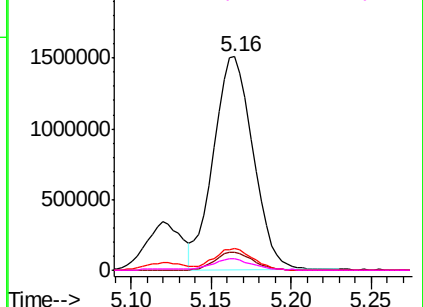


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.121 ppbv

RT: 5.10 min Scan# 673

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

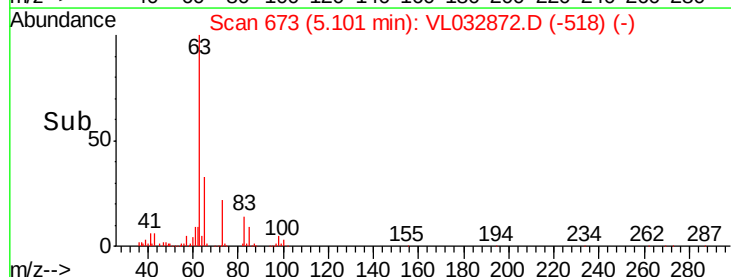
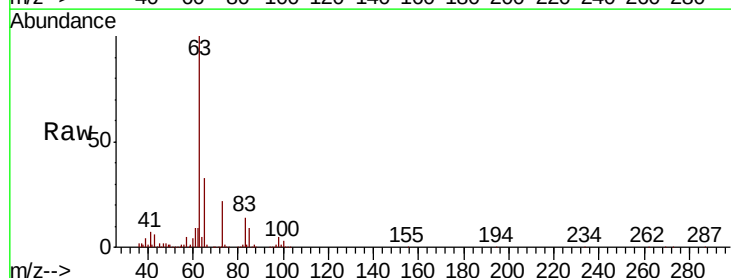
Tgt Ion: 63 Resp: 1818684

Ion Ratio Lower Upper

63 100

98 5.0 2.3 6.8

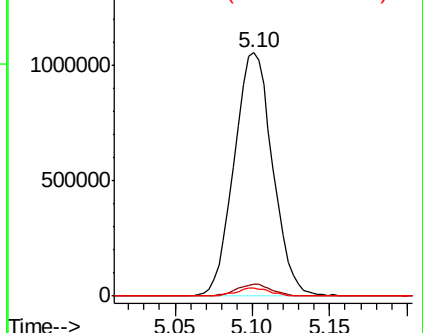
100 3.3 1.4 4.2

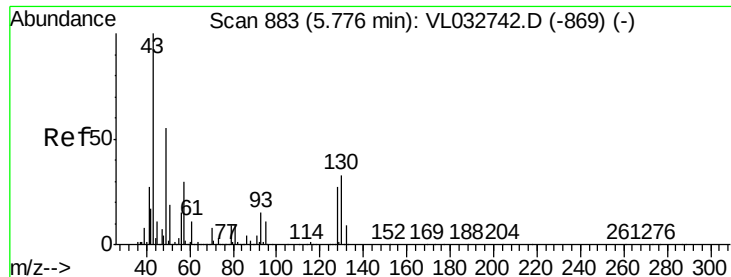


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





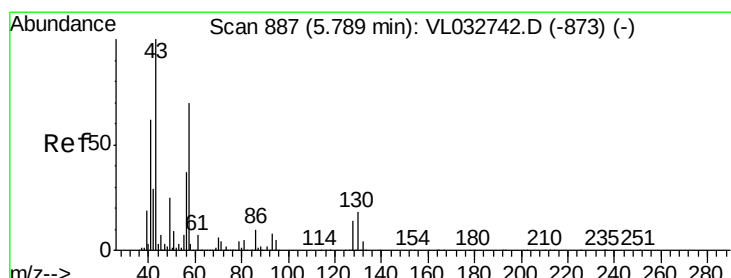
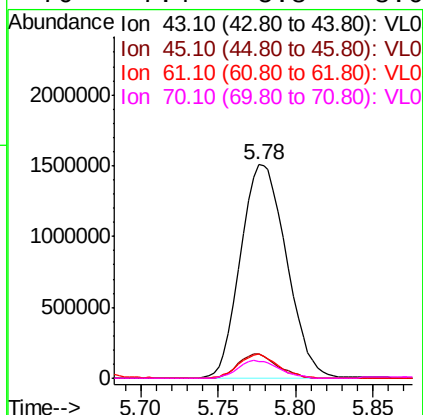
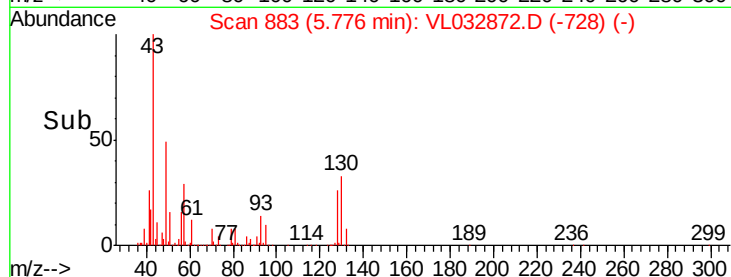
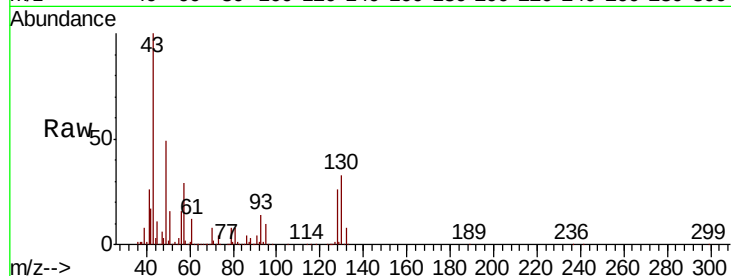
#25
Ethyl Acetate
Concen: 10.738 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.9	11.9
61	9.7	7.8	11.6
70	7.4	5.8	8.6

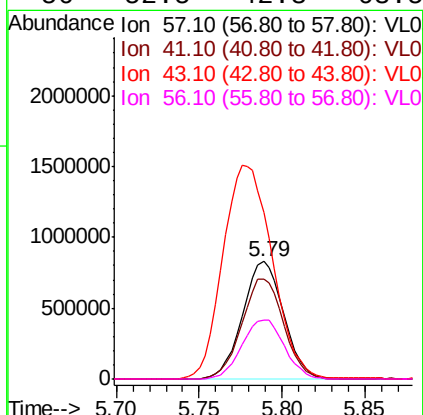
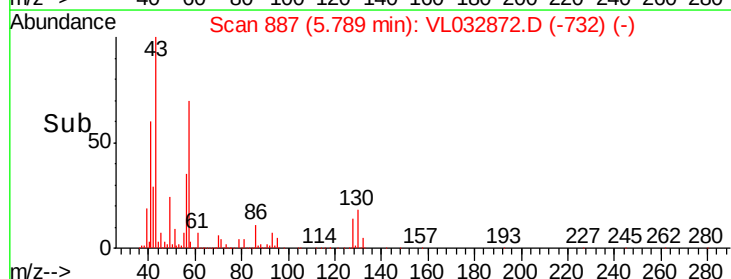
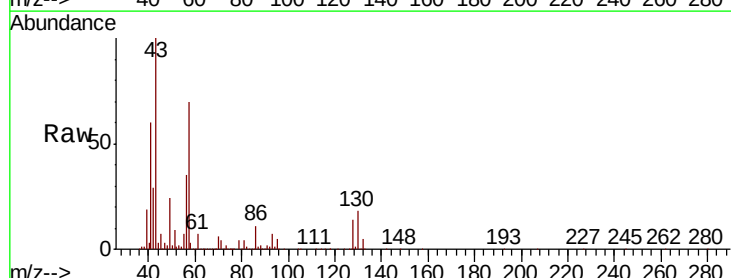
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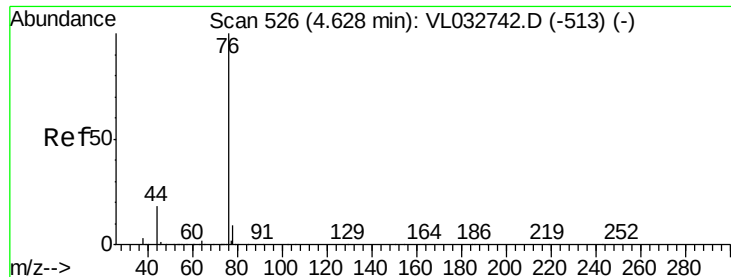
MMDadoda
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#26
Hexane
Concen: 11.115 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.1	70.3	105.5
43	218.6	174.0	261.0
56	52.5	42.3	63.5





#27

Carbon Disulfide

Concen: 12.036 ppbv

RT: 4.63 min Scan# 526

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1963357

Ion	Ratio	Lower	Upper
76	100		
44	17.8	14.4	21.6
78	9.4	7.7	11.5

76 100

44 17.8 14.4 21.6

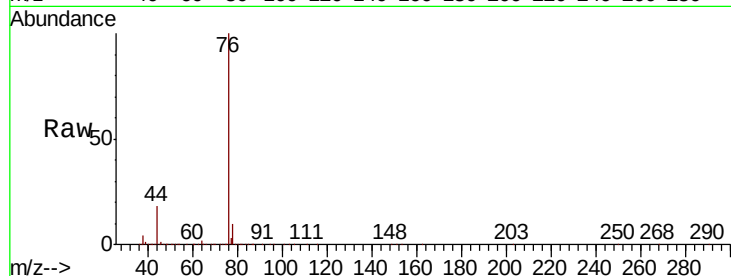
78 9.4 7.7 11.5

Manual Integrations

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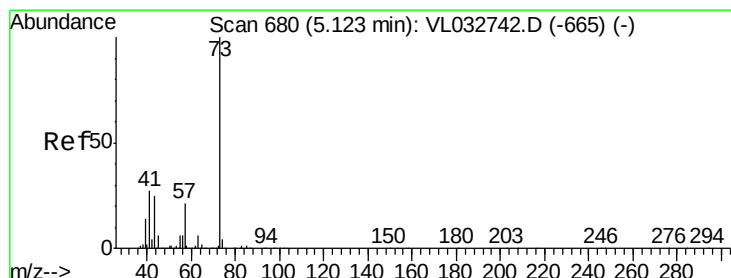
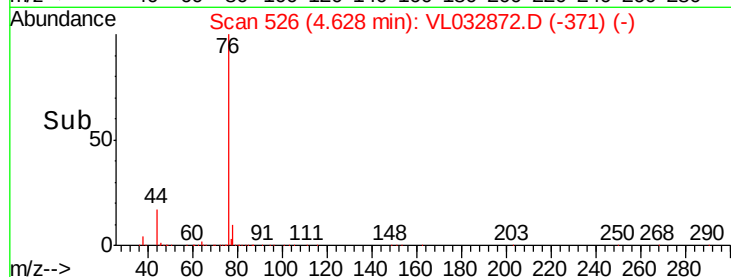
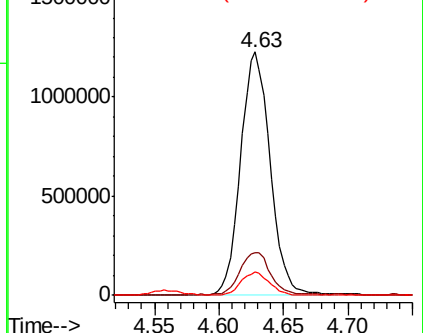
12/3/2018 4:17:23 PM



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: 11.588 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.00 min

Lab File: VL032872.D

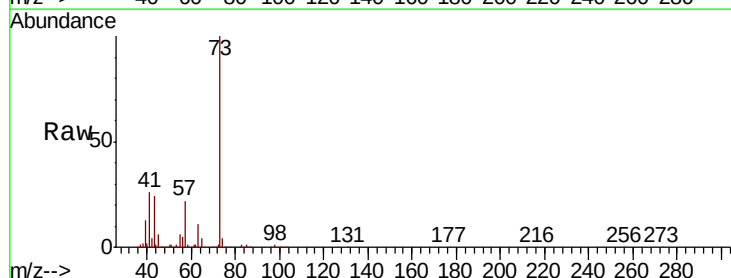
Acq: 1 Dec 2018 6:03

Tgt Ion: 73 Resp: 2377321

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.5	26.3

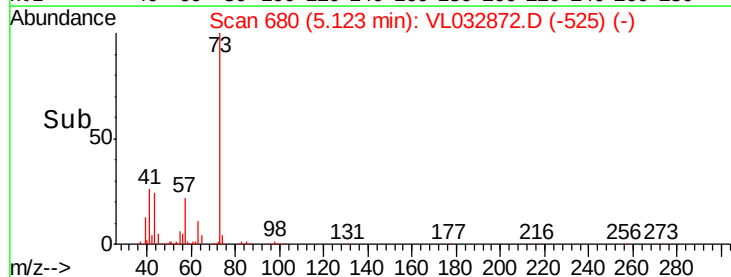
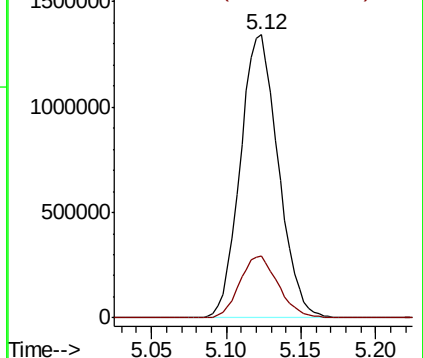
73 100

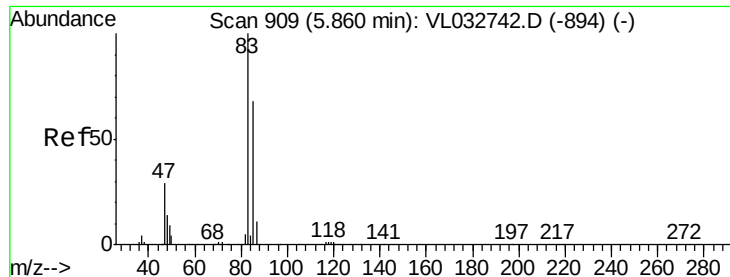
57 22.2 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





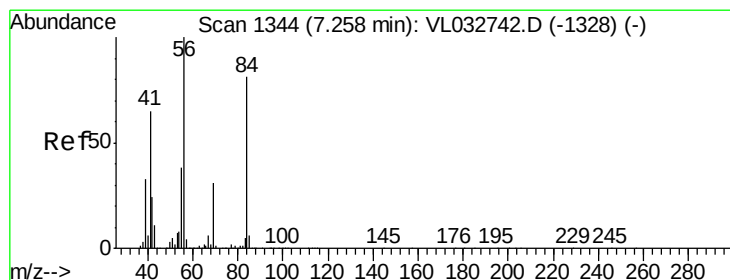
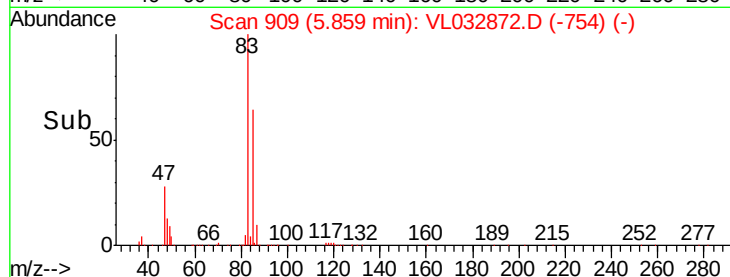
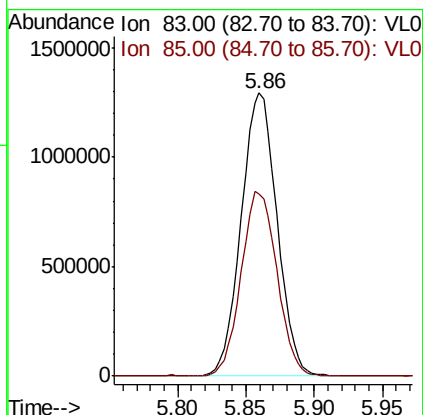
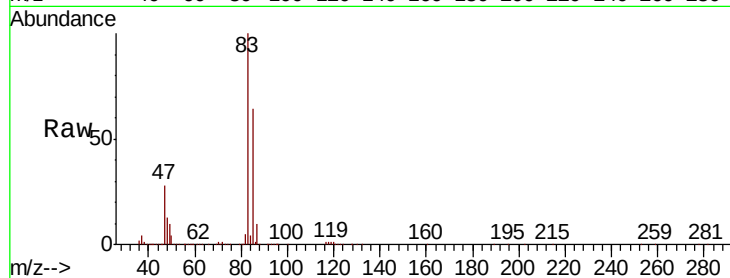
#29
Chloroform
Concen: 10.302 ppbv
RT: 5.86 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2362107
Ion Ratio Lower Upper
83 100
85 64.2 54.2 81.4

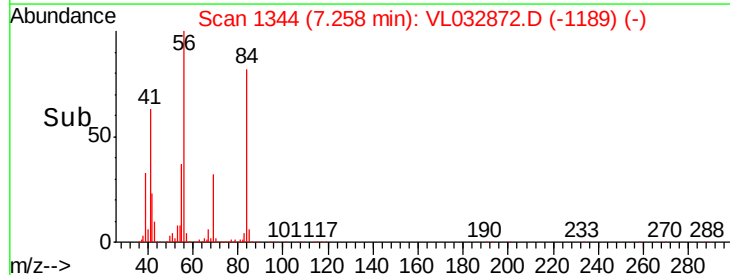
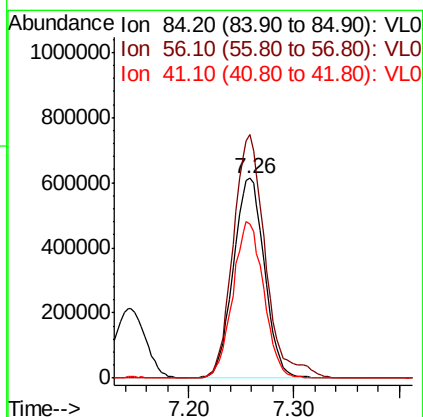
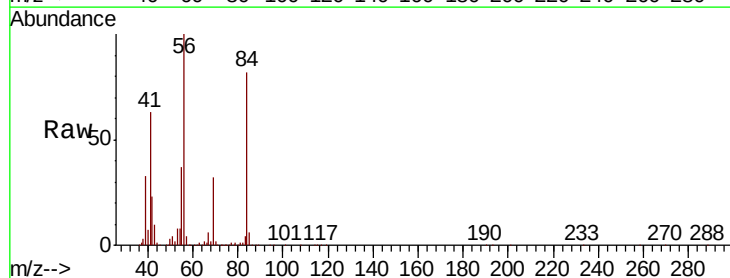
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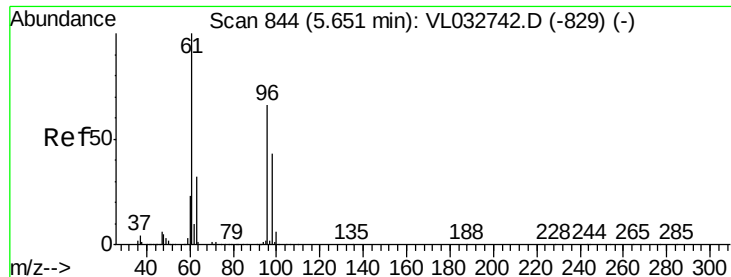
MMDadoda
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#30
Cyclohexane
Concen: 11.172 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion: 84 Resp: 1257042
Ion Ratio Lower Upper
84 100
56 125.8 105.0 157.4
41 77.4 65.3 97.9





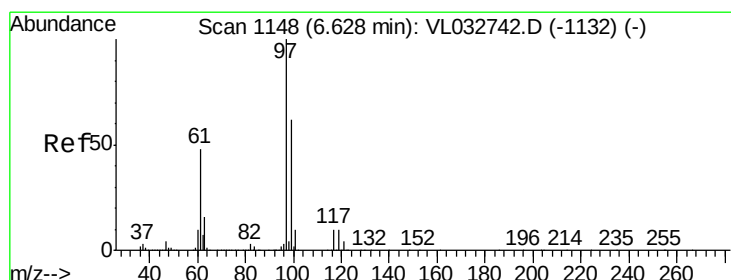
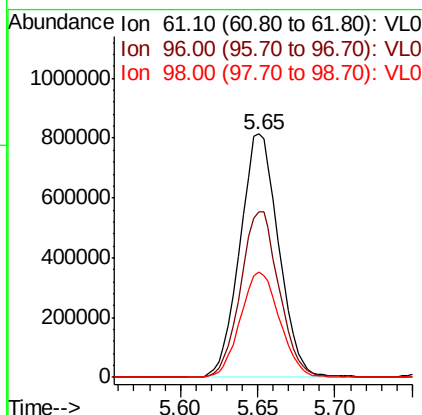
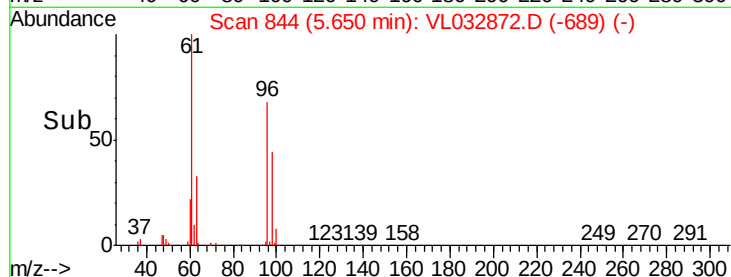
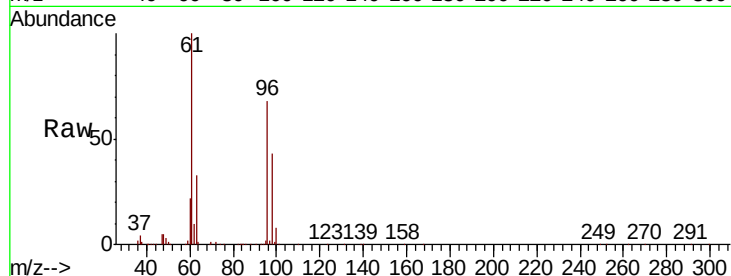
#31
 cis-1,2-Dichloroethene
 Concen: 10.969 ppbv
 RT: 5.65 min Scan# 844
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 61 Resp: 1418720
 Ion Ratio Lower Upper
 61 100
 96 68.1 53.2 79.8
 98 43.4 34.4 51.6

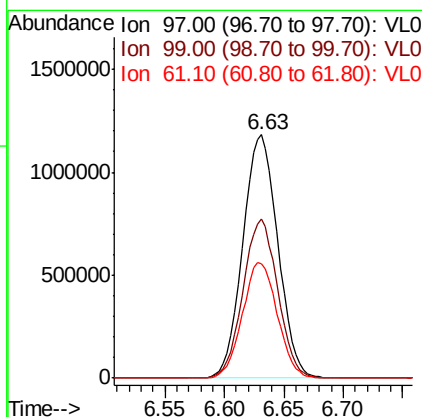
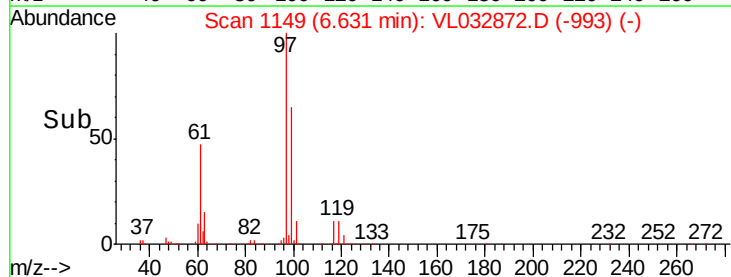
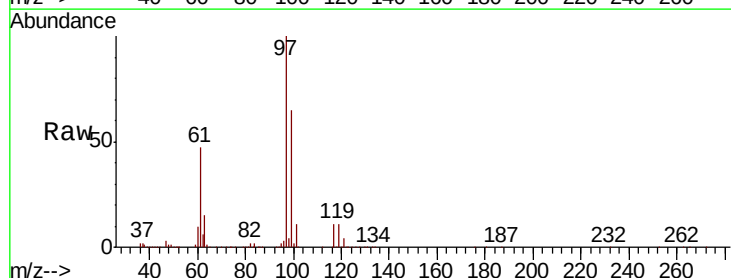
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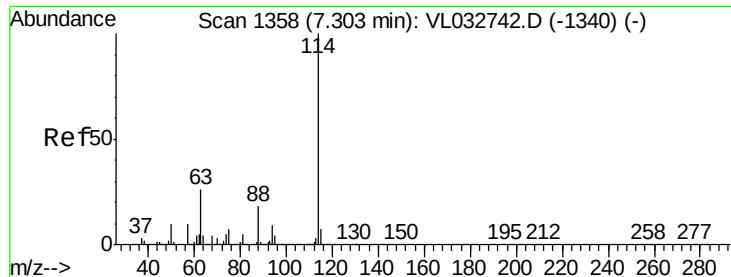
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 9.586 ppbv
 RT: 6.63 min Scan# 1149
 Delta R.T. 0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion: 97 Resp: 2409117
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.8 77.6
 61 47.5 39.7 59.5





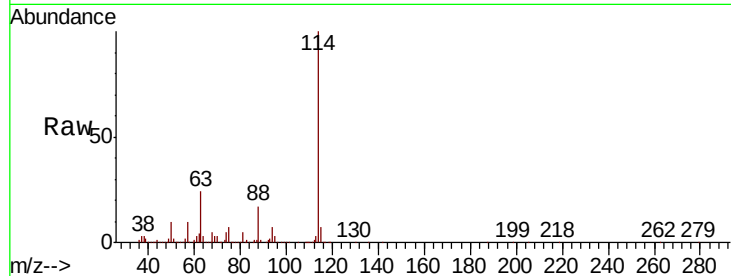
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

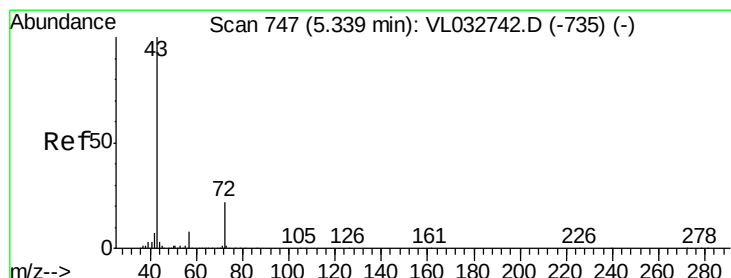
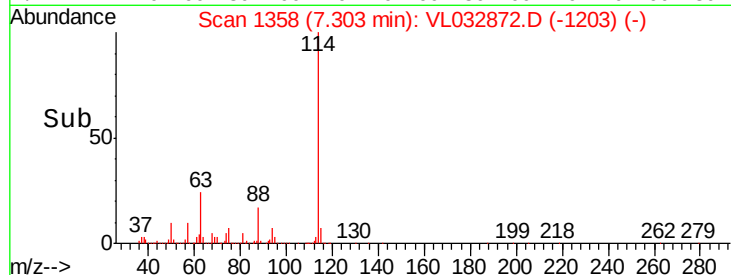
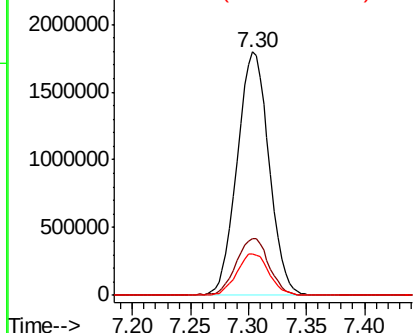
Tot Ion	Ratio	Lower	Upper
114	100		
63	24.1	20.9	31.3
88	17.3	14.4	21.6

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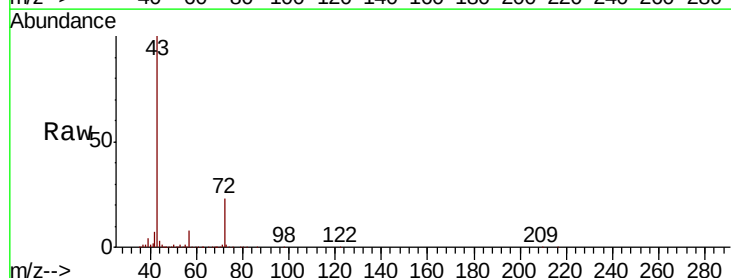


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

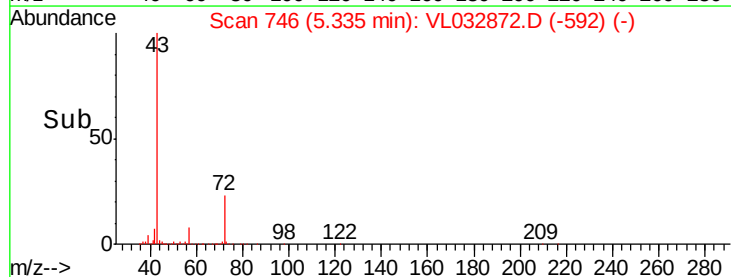
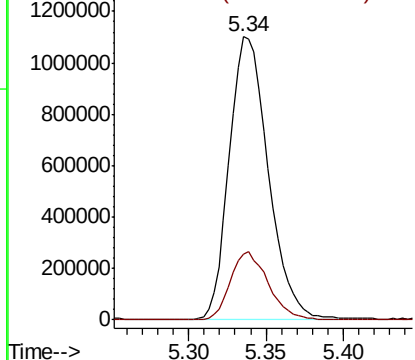


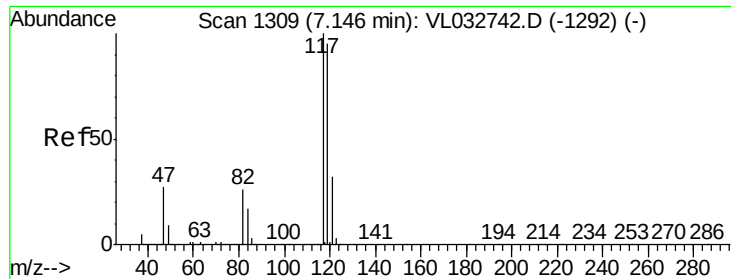
#34
 2-Butanone
 Concen: 10.822 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.4	27.6



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





#35

Carbon Tetrachloride

Concen: 9.403 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 2592000

Ion Ratio Lower Upper

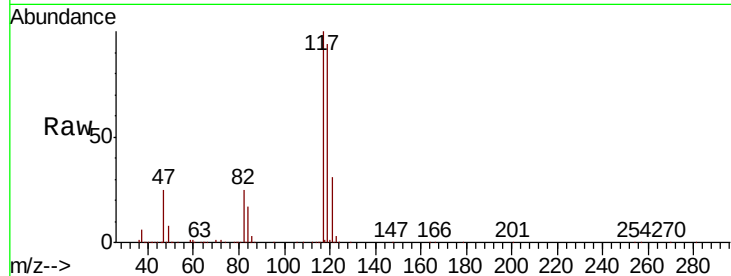
117 100

119 94.4 76.1 114.1

121 31.5 25.4 38.0

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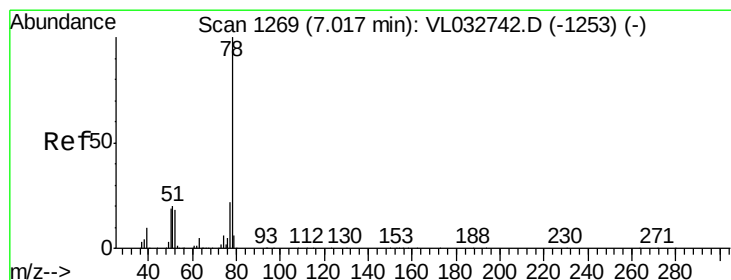
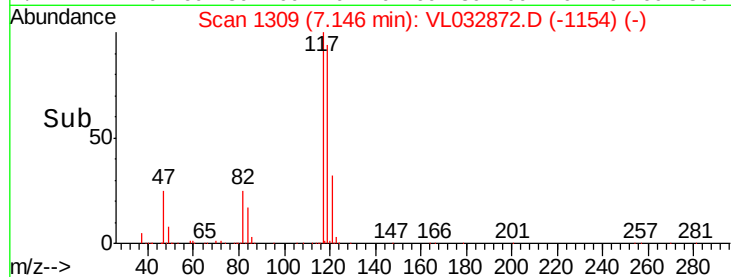
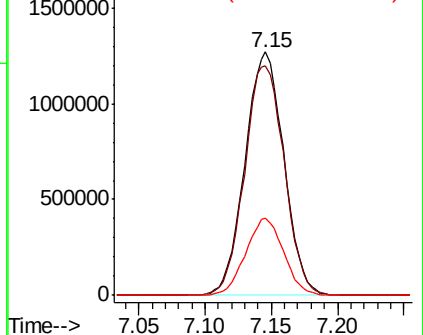
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.843 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

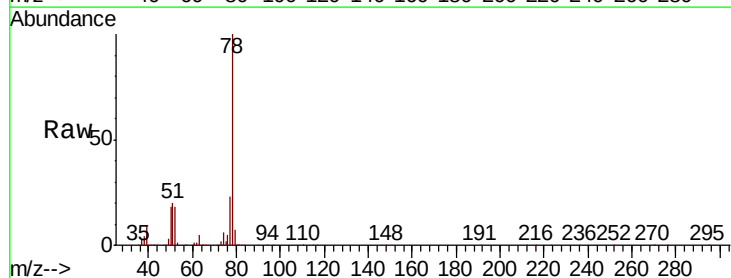
Tgt Ion: 78 Resp: 2960814

Ion Ratio Lower Upper

78 100

77 22.8 17.8 26.8

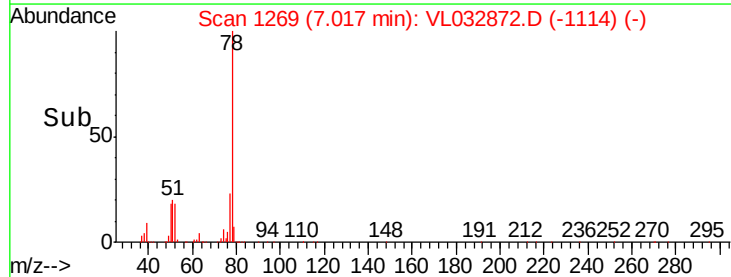
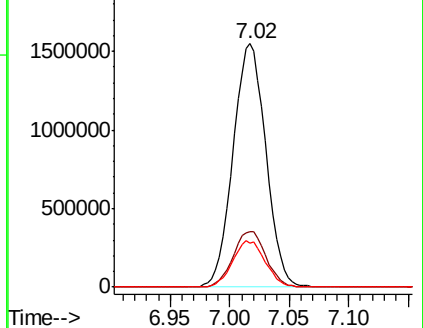
50 18.2 15.4 23.0

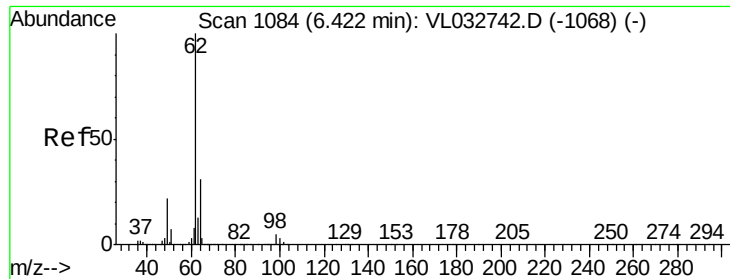


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





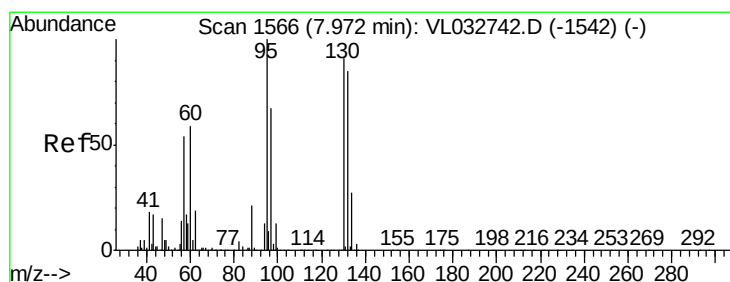
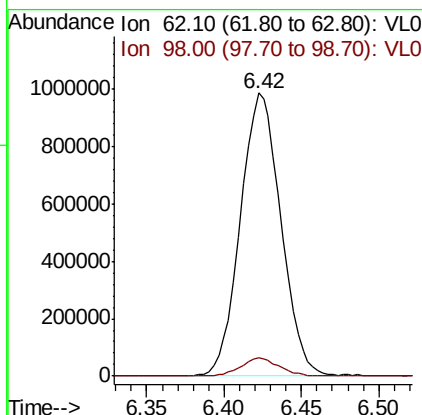
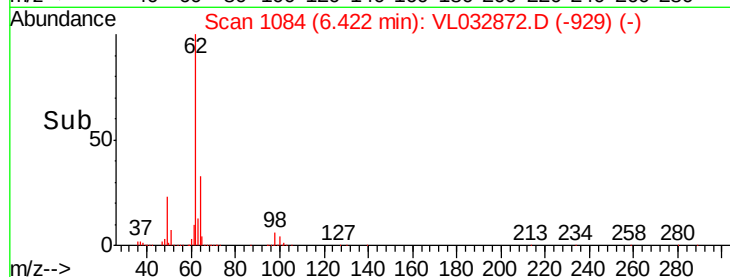
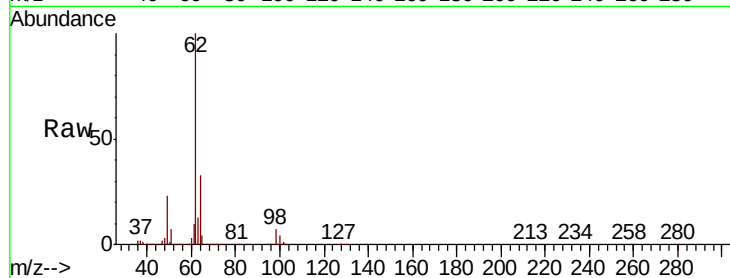
#37
 1,2-Dichloroethane
 Concen: 9.776 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1797004
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.5 6.7

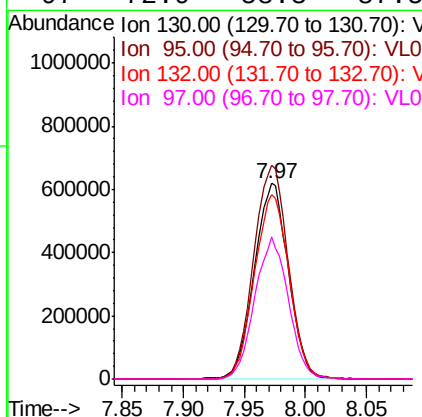
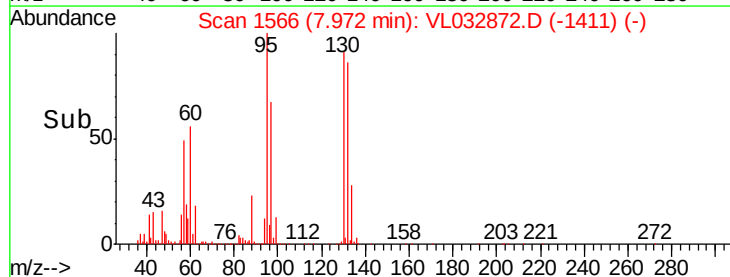
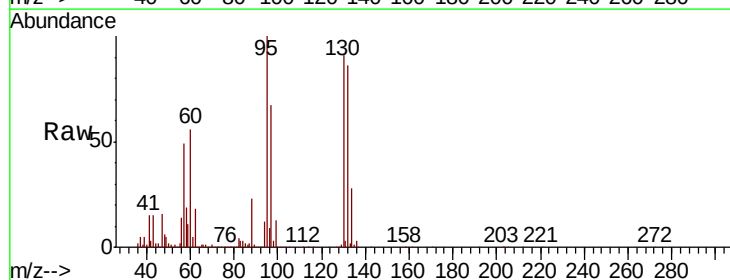
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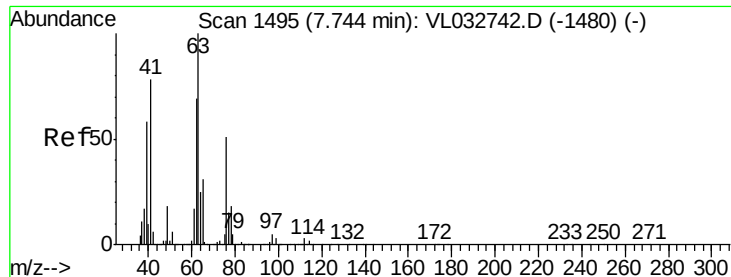
MMDadoda
 12/3/2018 4:17:23 PM



#38
 Trichloroethene
 Concen: 10.786 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion: 130 Resp: 1191967
 Ion Ratio Lower Upper
 130 100
 95 109.5 87.7 131.5
 132 94.3 74.6 111.8
 97 72.9 58.3 87.5





#39

1,2-Dichloropropane

Concen: 10.574 ppbv

RT: 7.75 min Scan# 1497

Delta R.T. 0.01 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

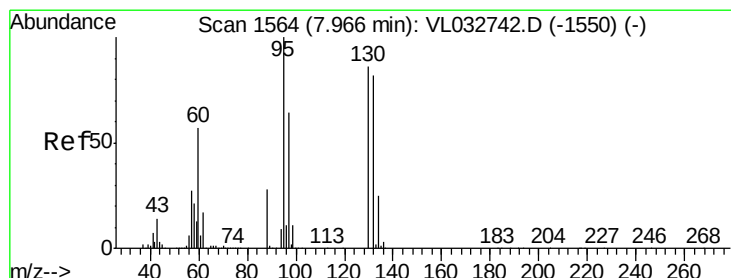
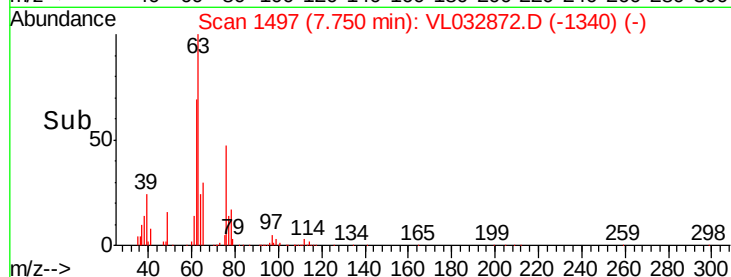
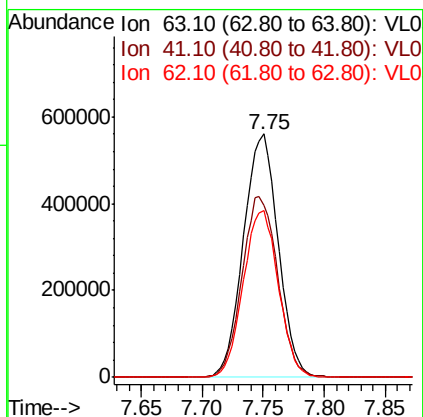
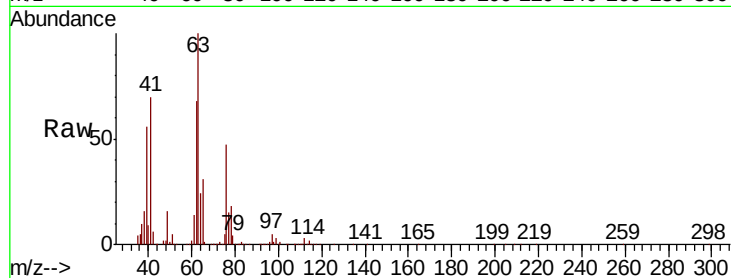
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	1100127
Ion	Ratio	Lower	Upper
63	100		
41	70.4	62.0	93.0
62	68.4	55.4	83.2

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.509 ppbv

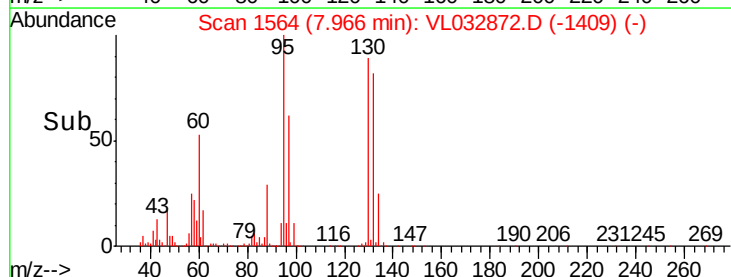
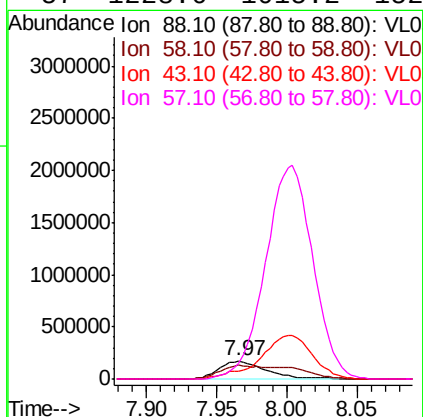
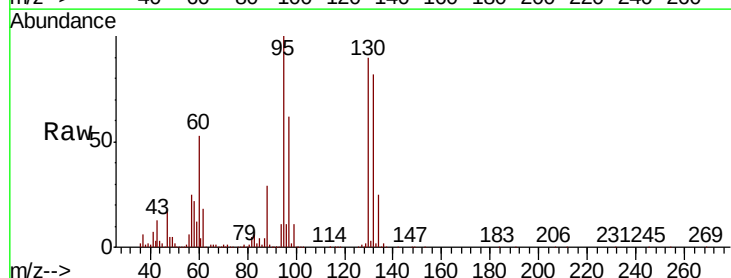
RT: 7.97 min Scan# 1564

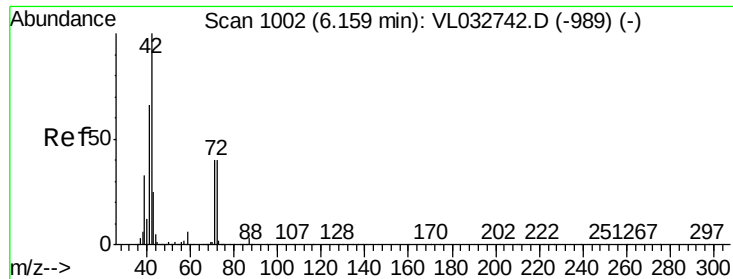
Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Tgt Ion:	88	Resp:	390510
Ion	Ratio	Lower	Upper
88	100		
58	128.8	105.3	157.9
43	273.4	226.1	339.1
57	1228.6	1015.2	1522.8





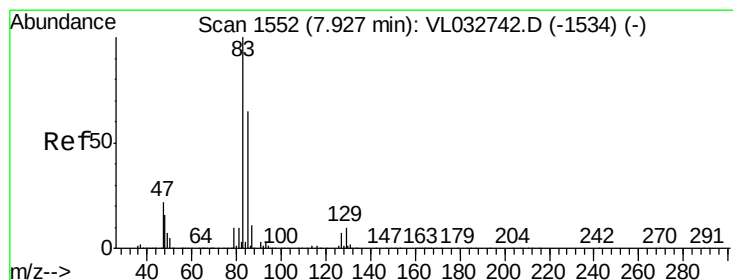
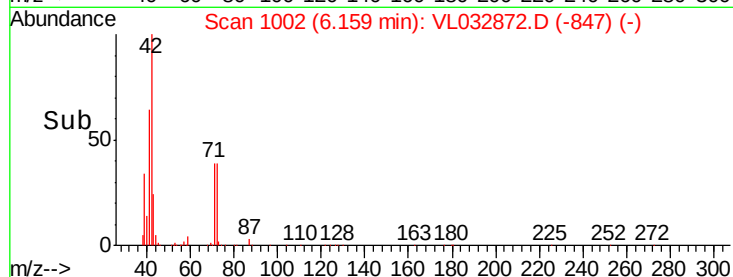
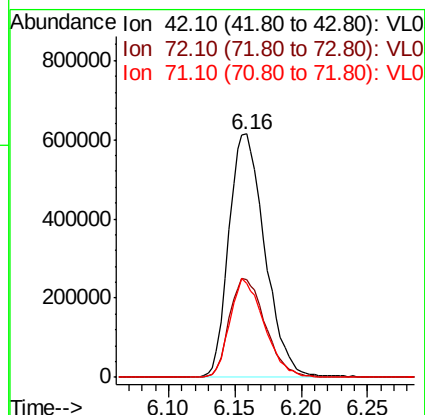
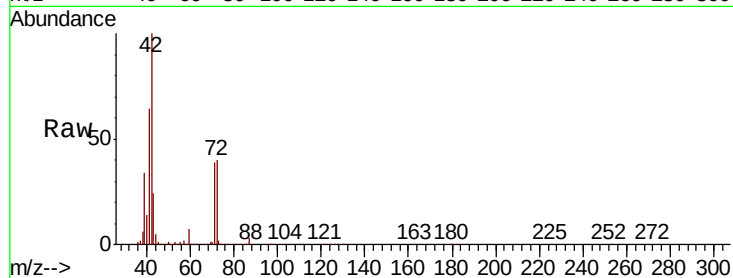
#41
Tetrahydrofuran
Concen: 11.373 ppbv
RT: 6.16 min Scan# 1002
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 42 Resp: 1160249
Ion Ratio Lower Upper
42 100
72 40.7 32.4 48.6
71 38.9 31.6 47.4

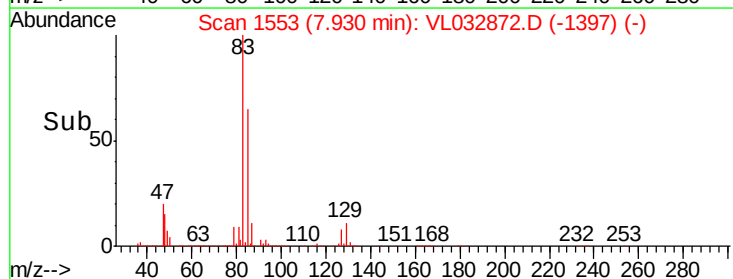
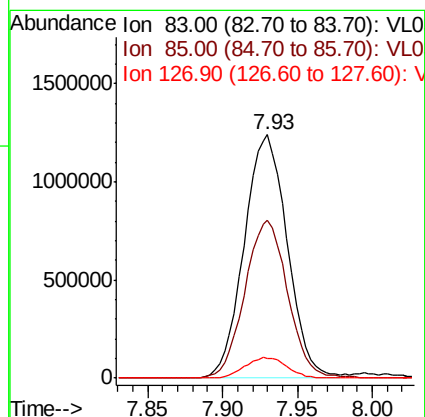
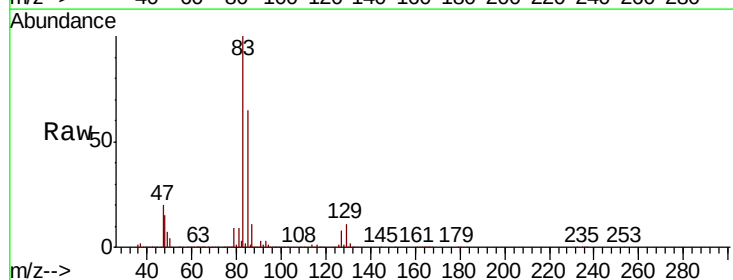
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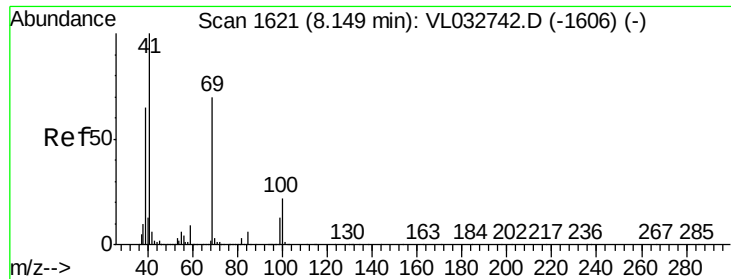
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12/3/2018 4:17:23 PM



#42
Bromodichloromethane
Concen: 9.970 ppbv
RT: 7.93 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion: 83 Resp: 2484190
Ion Ratio Lower Upper
83 100
85 65.0 51.8 77.8
127 8.2 5.9 8.9





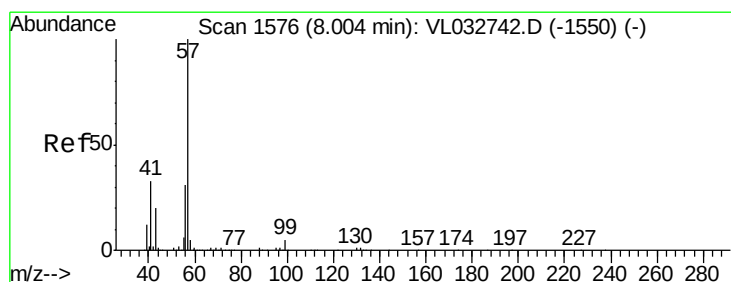
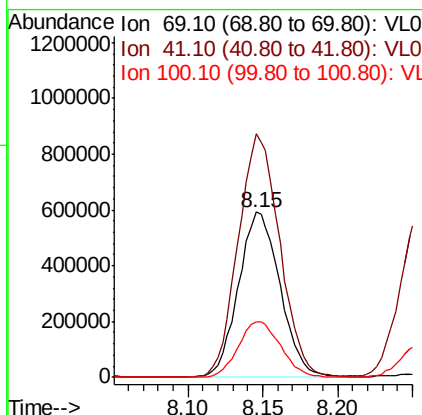
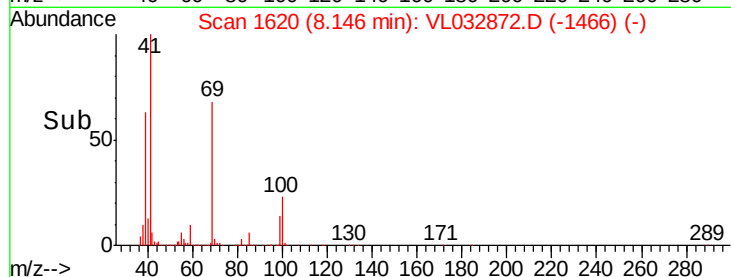
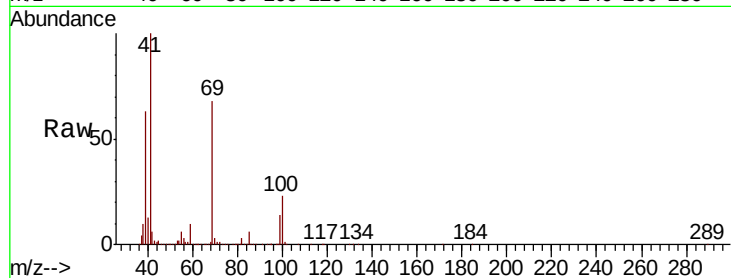
#43
Methvl Methacrylate
Concen: 11.237 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1145497
Ion Ratio Lower Upper
69 100
41 147.1 115.0 172.4
100 34.4 25.4 38.0

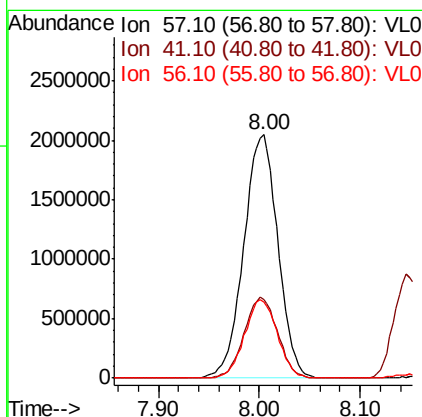
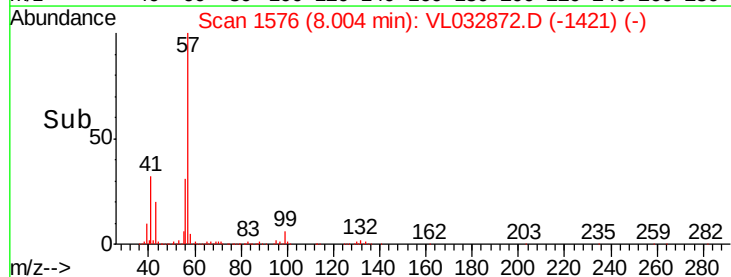
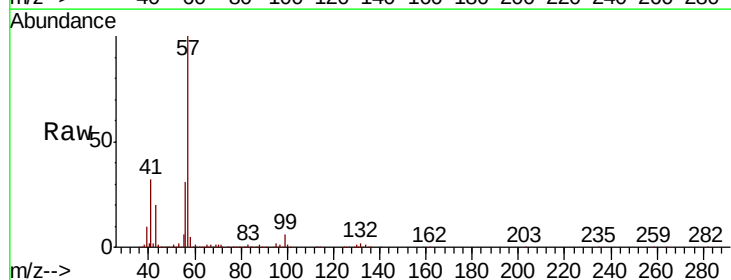
Manual Integrations
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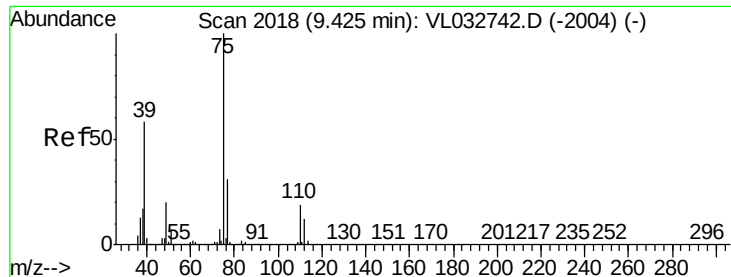
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#44
2,2,4-Trimethylpentane
Concen: 10.506 ppbv
RT: 8.00 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion: 57 Resp: 4794005
Ion Ratio Lower Upper
57 100
41 32.4 26.6 39.8
56 31.0 24.8 37.2





#45

t-1,3-Dichloropropene

Concen: 12.506 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Tot Ion: 75 Resp: 1710686

Ion Ratio Lower Upper

75 100

77 32.0 24.6 36.8

Instrument :

MSVOA_L

ClientSampleId :

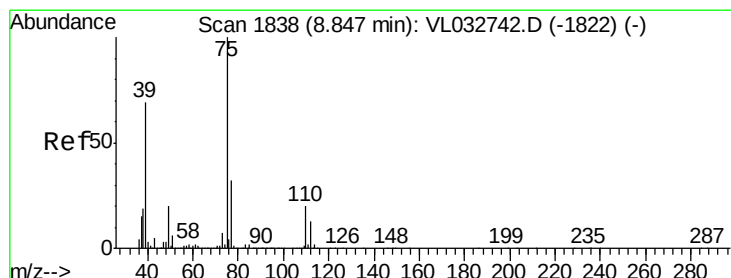
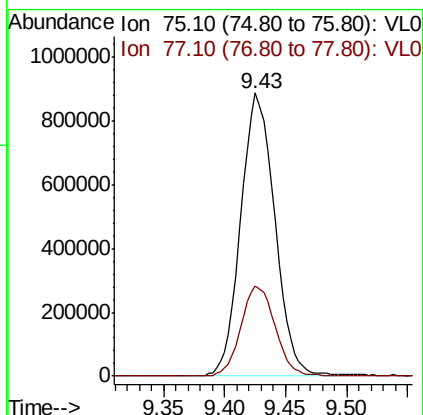
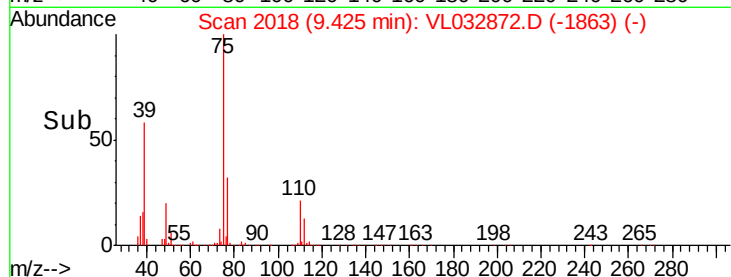
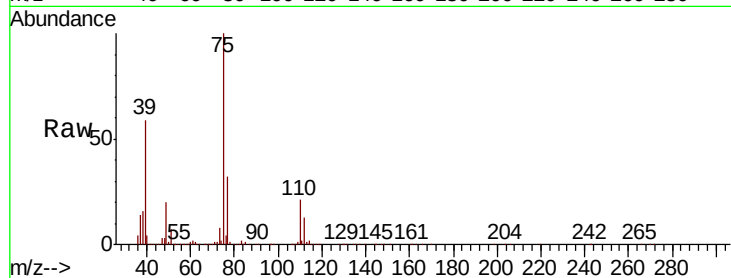
VSTDCCC010EC

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#46

cis-1,3-Dichloropropene

Concen: 11.055 ppbv

RT: 8.85 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

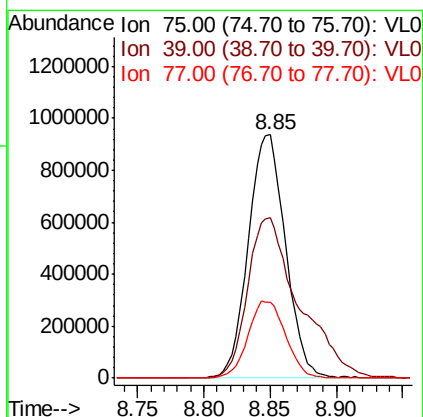
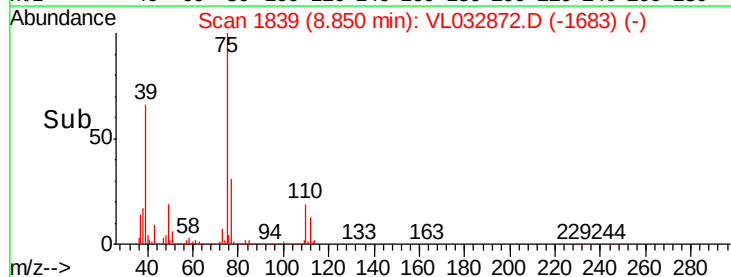
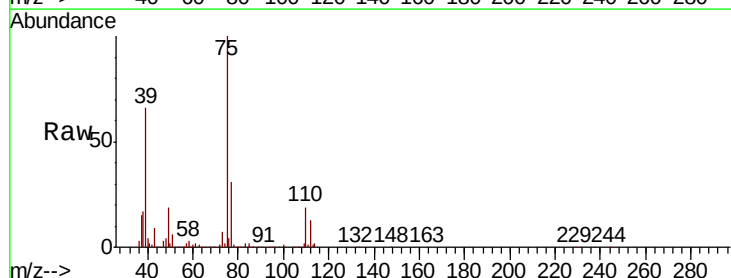
Tgt Ion: 75 Resp: 1826998

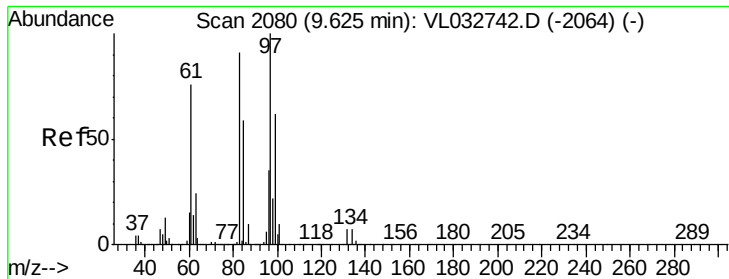
Ion Ratio Lower Upper

75 100

39 65.9 55.2 82.8

77 31.2 25.8 38.6





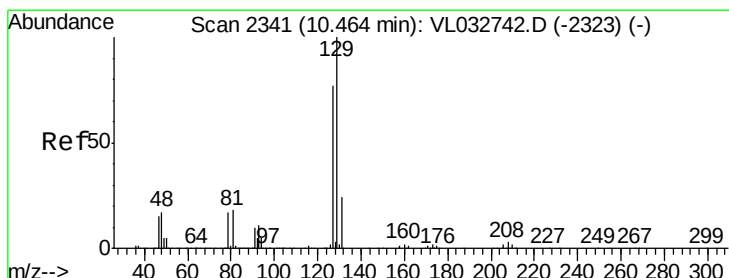
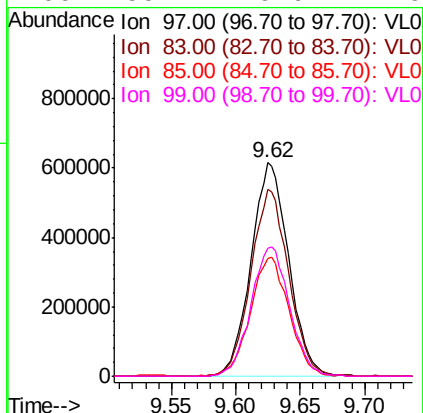
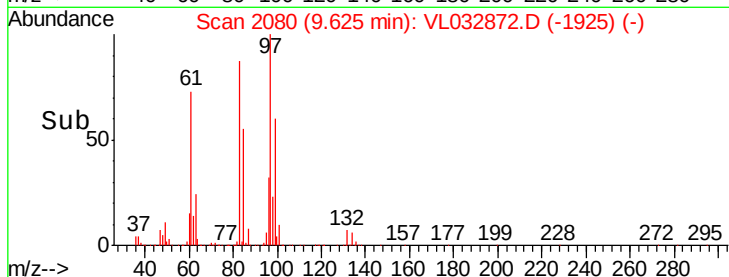
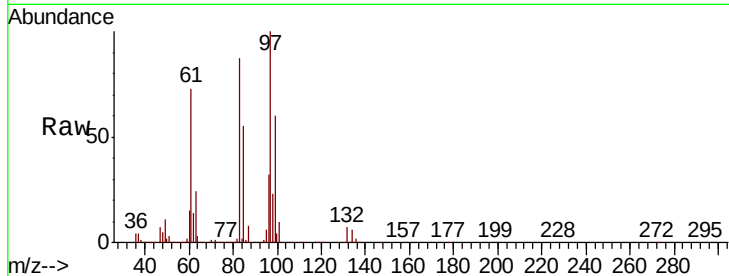
#47
 1,1,2-Trichloroethane
 Concen: 10.187 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.3	73.0	109.4	
85	55.0	47.0	70.4	
99	59.7	49.9	74.9	

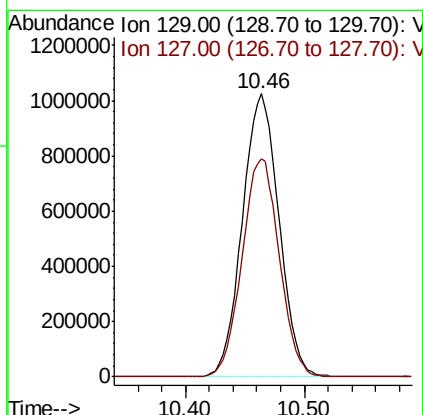
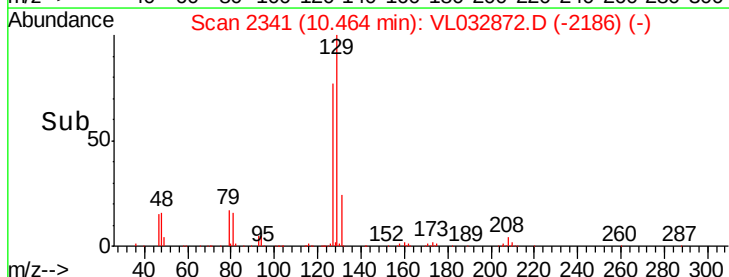
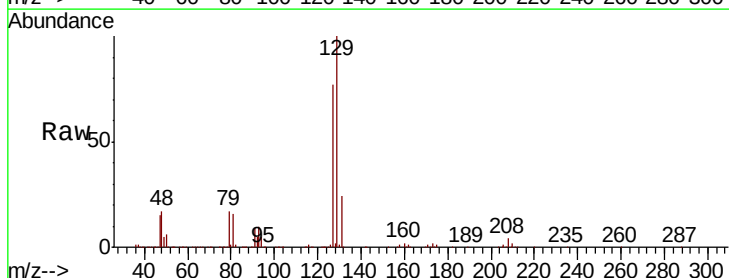
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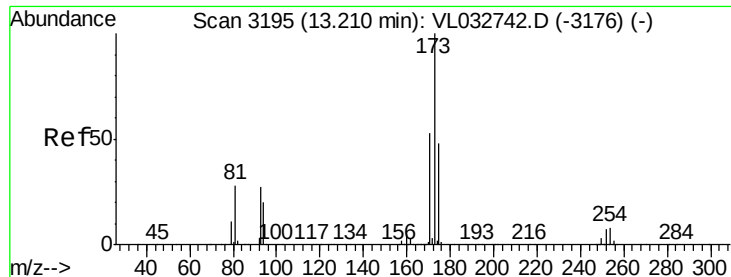
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.437 ppbv
 RT: 10.46 min Scan# 2341
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.5	39.0	117.0	





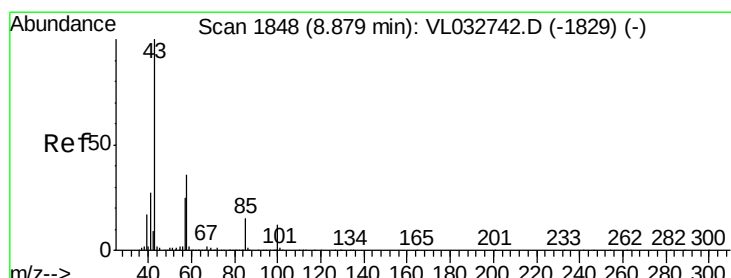
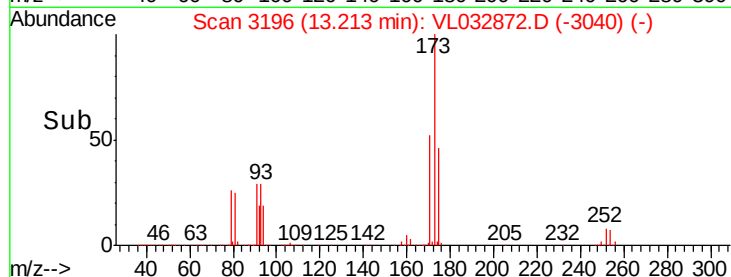
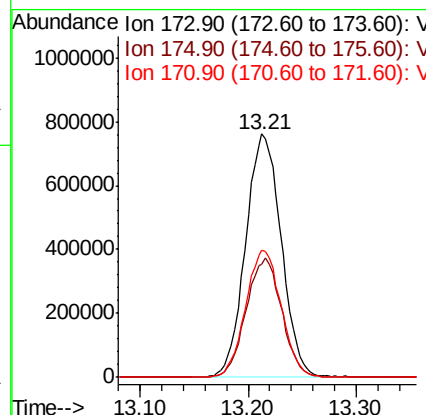
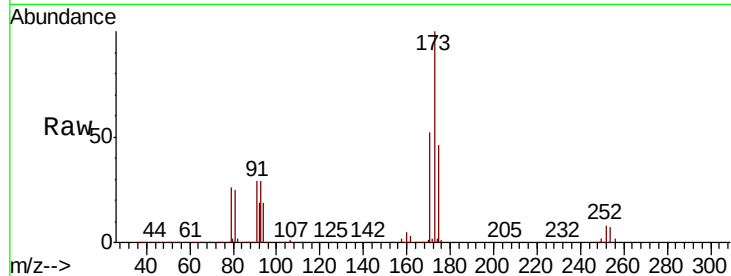
#49
Bromoform
Concen: 10.141 ppbv
RT: 13.21 min Scan# 3196
Delta R.T. 0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1751206
Ion Ratio Lower Upper
173 100
175 48.9 39.4 59.0
171 52.4 42.0 63.0

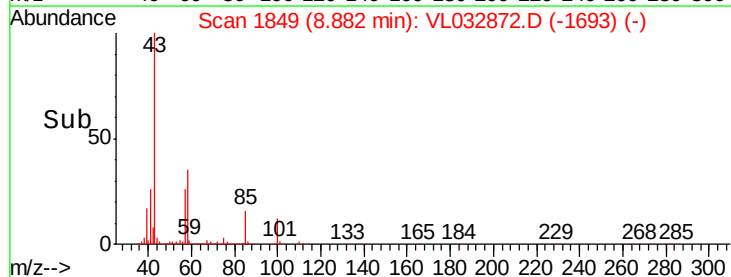
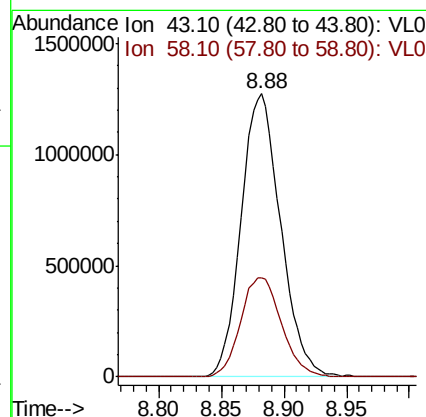
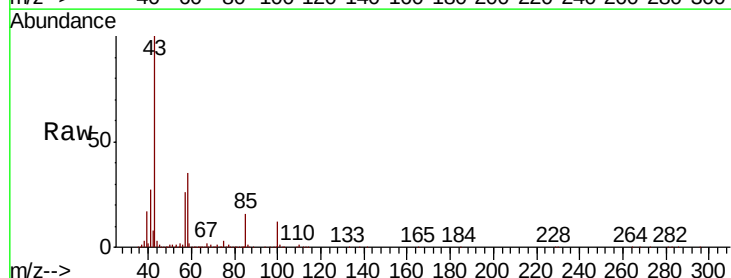
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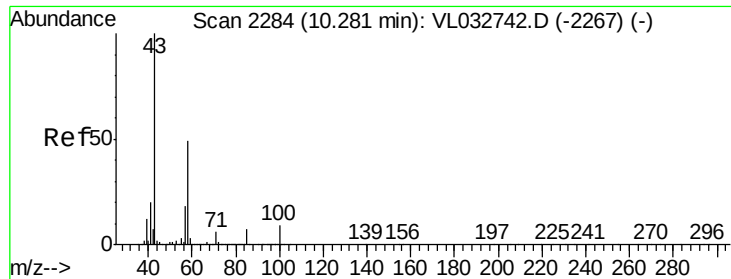
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#50
4-Methyl-2-Pentanone
Concen: 10.036 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion: 43 Resp: 2787815
Ion Ratio Lower Upper
43 100
58 36.4 28.8 43.2





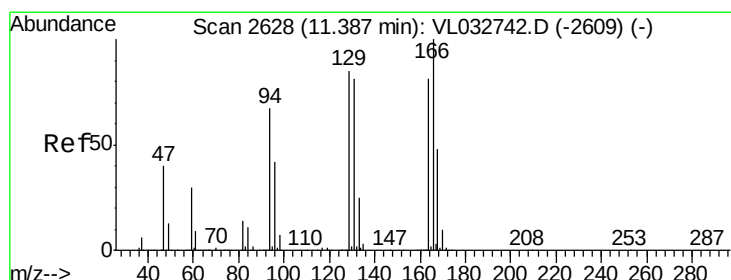
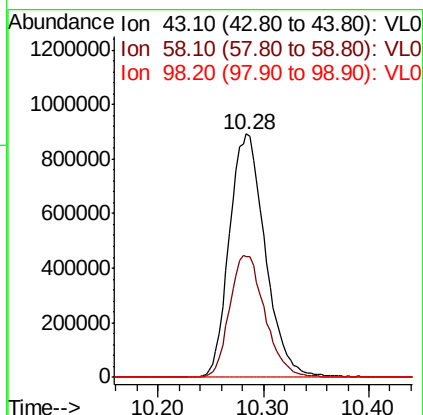
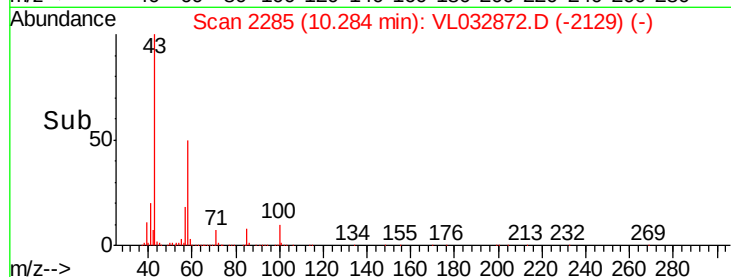
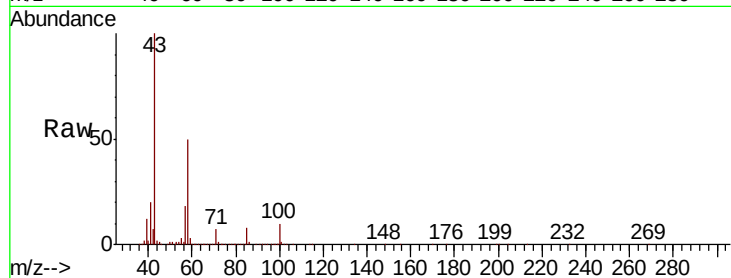
#51
2-Hexanone
Concen: 11.733 ppbv
RT: 10.28 min Scan# 2285
Delta R.T. 0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.6	38.9	58.3
98	0.3	0.2	0.4

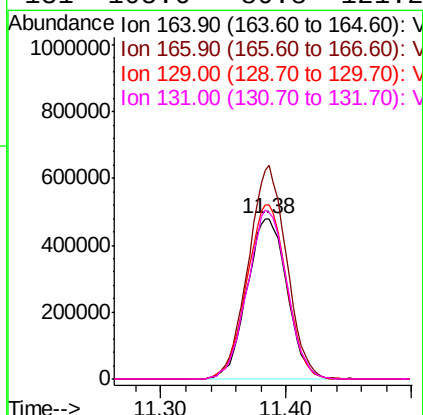
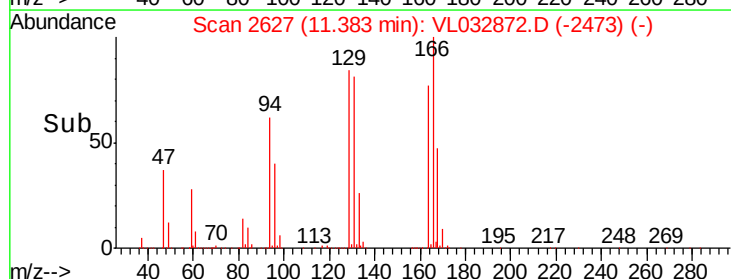
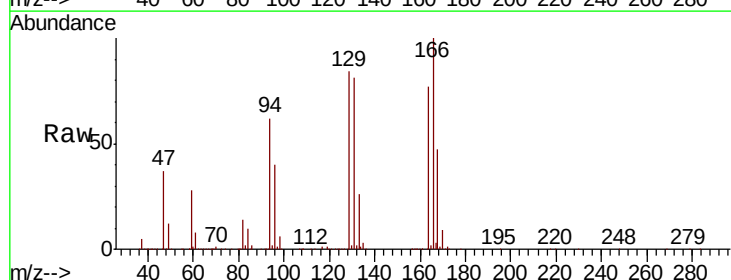
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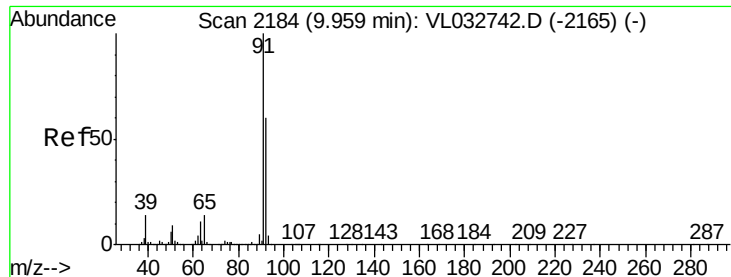
MMDadoda
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#52
Tetrachloroethene
Concen: 11.187 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.1	99.3	148.9
129	108.8	83.9	125.9
131	105.6	80.8	121.2





#53

Toluene

Concen: 11.921 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3395981

Ion Ratio Lower Upper

91 100

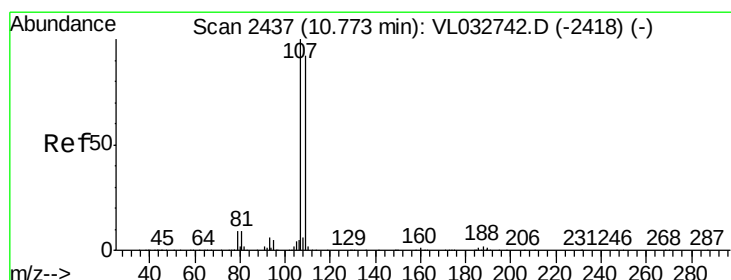
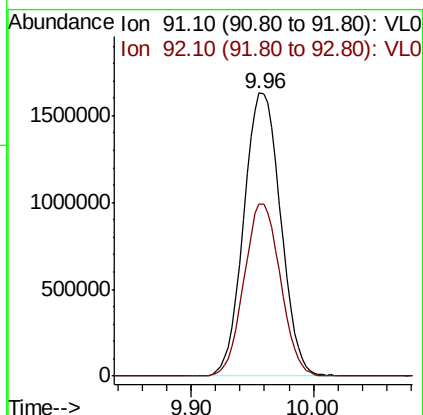
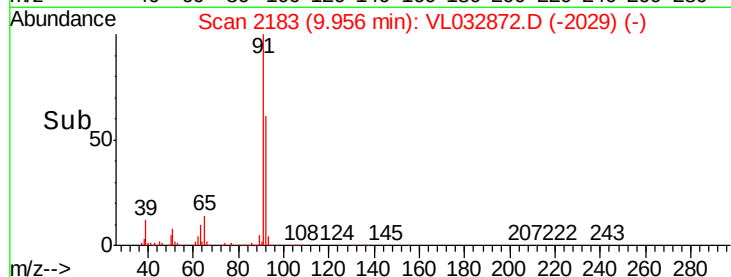
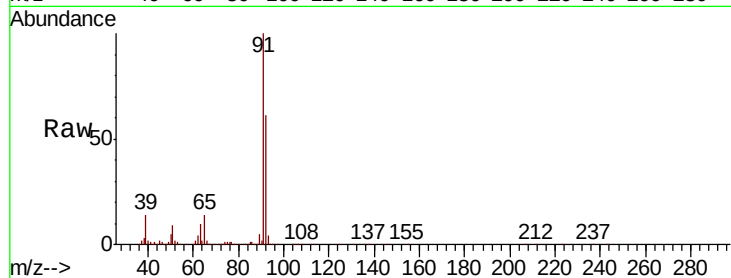
92 60.3 47.9 71.9

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#54

1,2-Dibromoethane

Concen: 10.820 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL032872.D

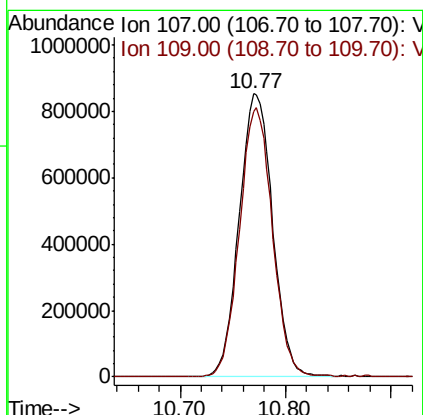
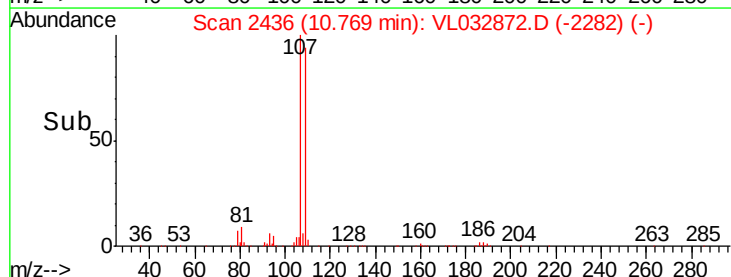
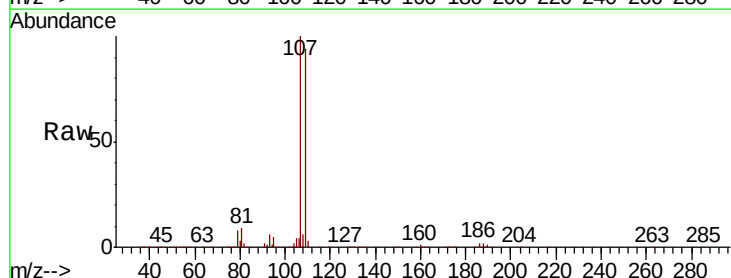
Acq: 1 Dec 2018 6:03

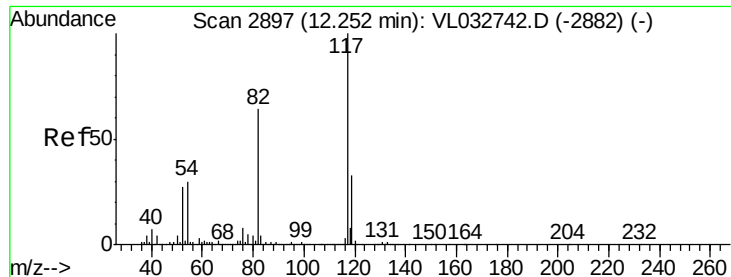
Tgt Ion: 107 Resp: 1881613

Ion Ratio Lower Upper

107 100

109 93.7 73.8 110.8





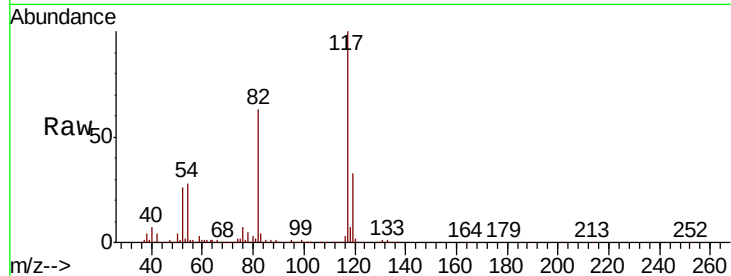
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

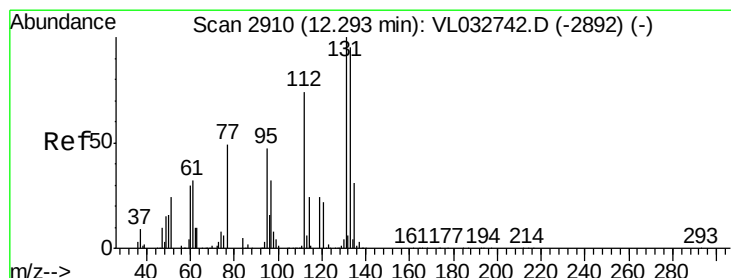
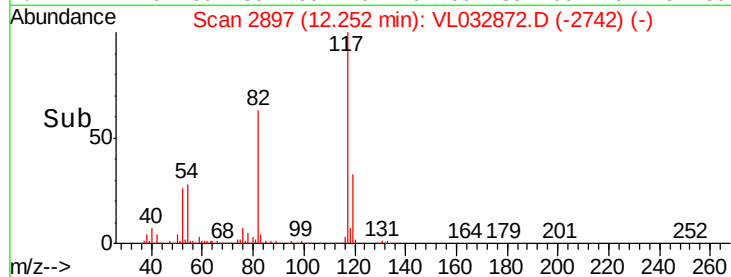
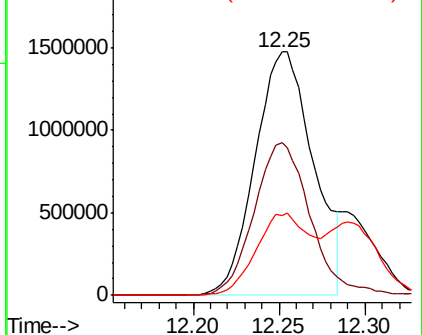
Tot Ion:117 Resp: 3469707
Ion Ratio Lower Upper
117 100
82 60.9 51.0 76.6
119 30.0 28.0 42.0

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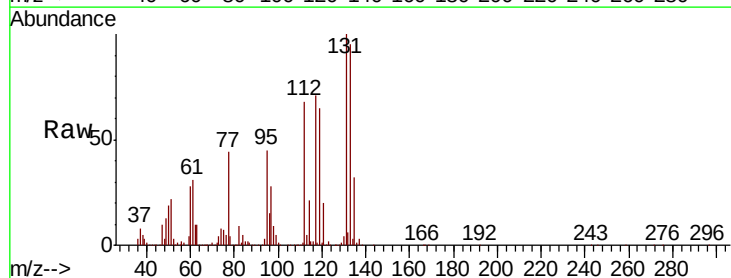


Abundance Ion 117.10 (116.80 to 117.80): V
2000000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

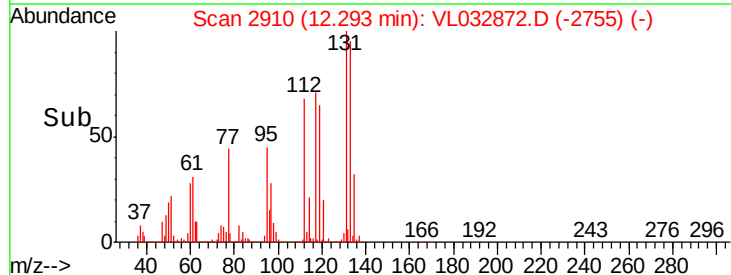
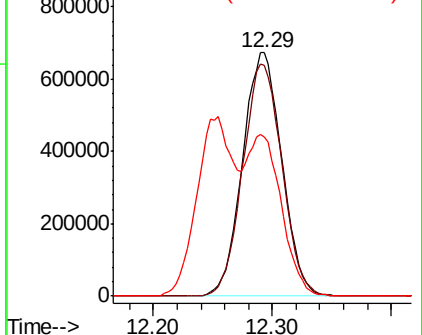


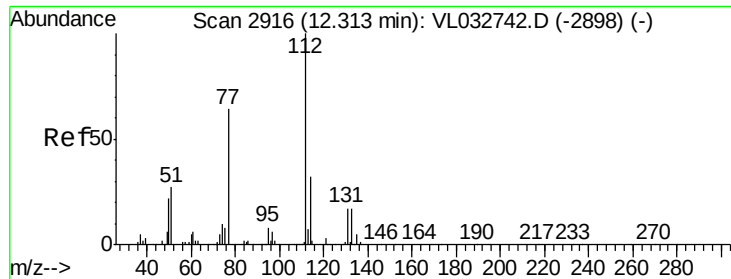
#56
1,1,1,2-Tetrachloroethane
Concen: 9.502 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion:131 Resp: 1537660
Ion Ratio Lower Upper
131 100
133 95.5 75.8 113.6
119 58.5 45.2 67.8



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.678 ppbv

RT: 12.31 min Scan# 2916

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2570463

Ion Ratio Lower Upper

112 100

77 62.8 52.3 78.5

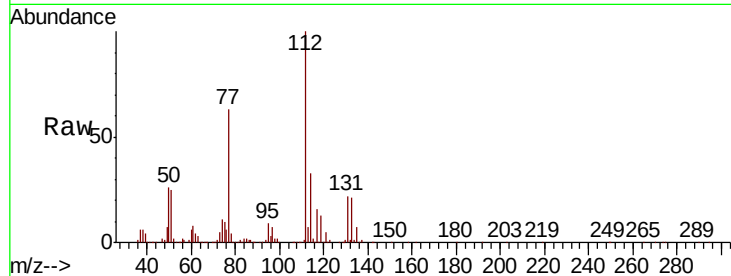
114 33.1 28.4 34.8

Manual Integrations

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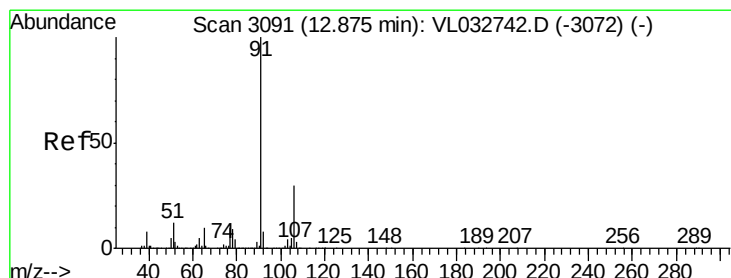
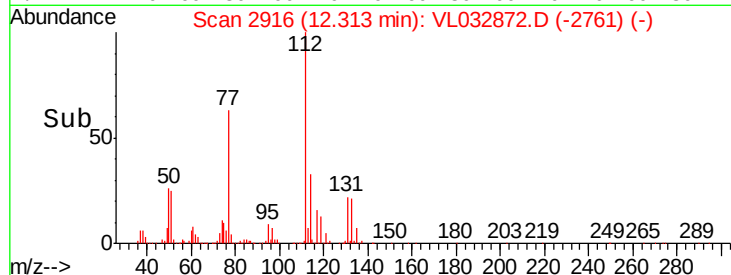
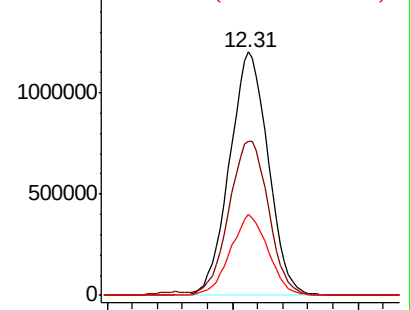
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.973 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. -0.00 min

Lab File: VL032872.D

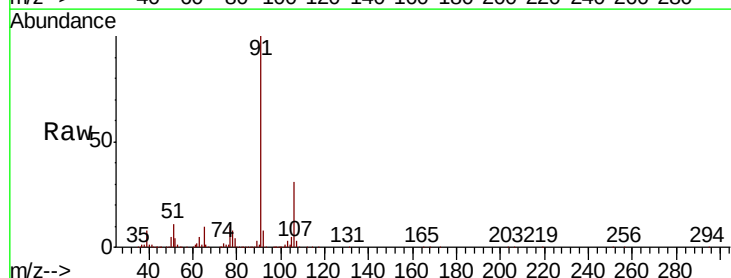
Acq: 1 Dec 2018 6:03

Tgt Ion: 91 Resp: 4582002

Ion Ratio Lower Upper

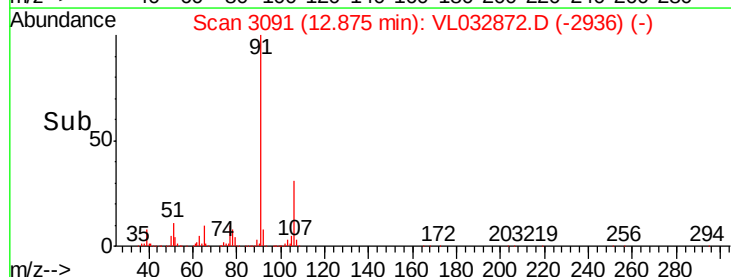
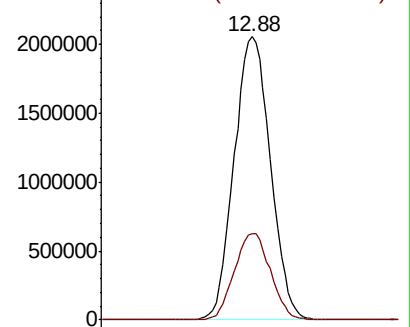
91 100

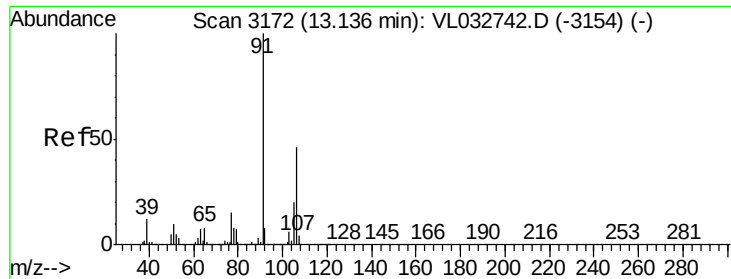
106 30.6 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 21.041 ppbv m

RT: 13.16 min Scan# 3180

Delta R.T. 0.03 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 7821392

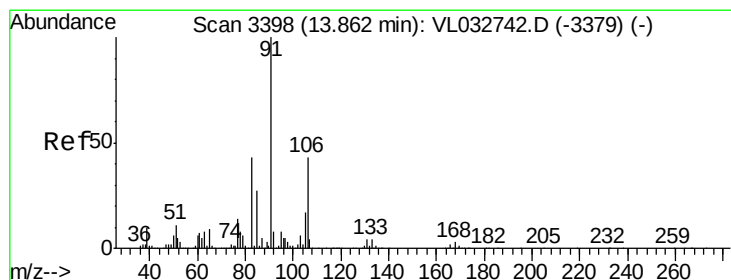
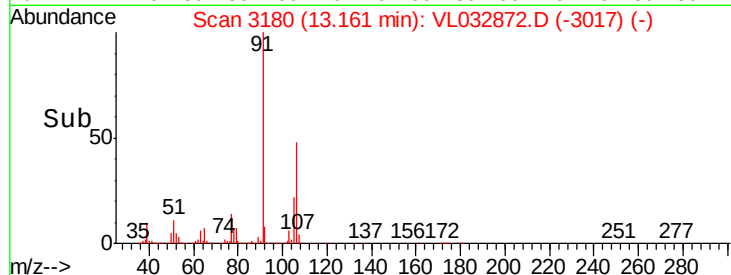
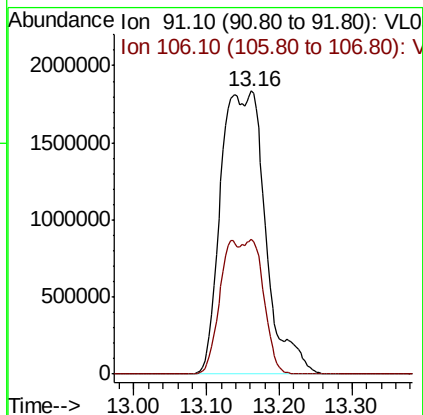
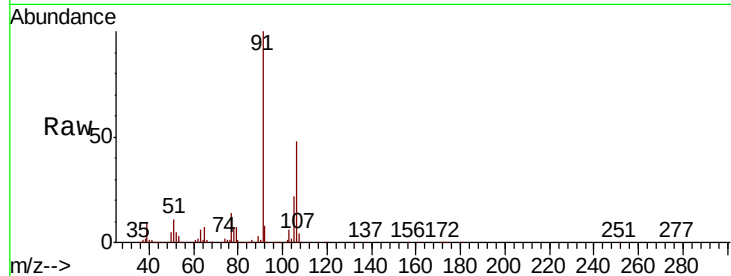
Ion Ratio Lower Upper

91 100

106 0.0 36.1 54.1#

Manual Integrations
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#60

o-Xylene

Concen: 9.626 ppbv

RT: 13.86 min Scan# 3398

Delta R.T. -0.00 min

Lab File: VL032872.D

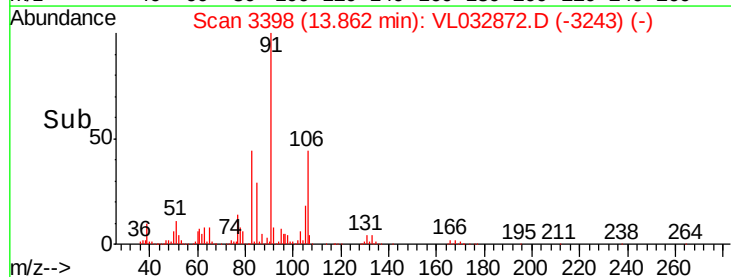
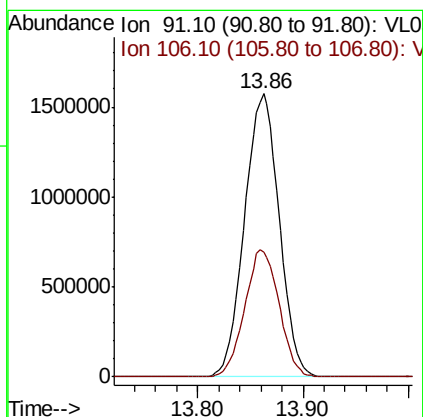
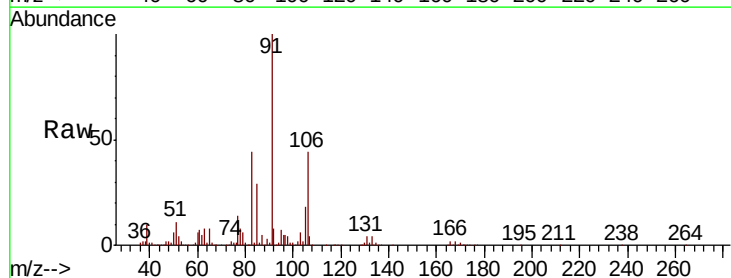
Acq: 1 Dec 2018 6:03

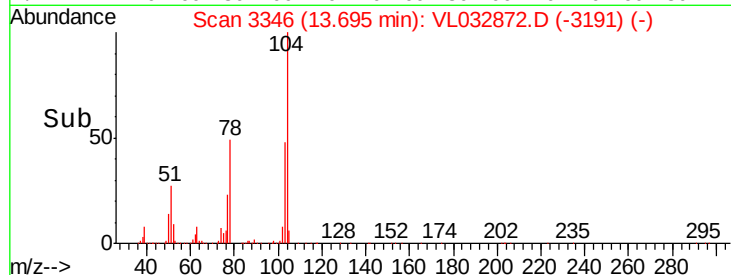
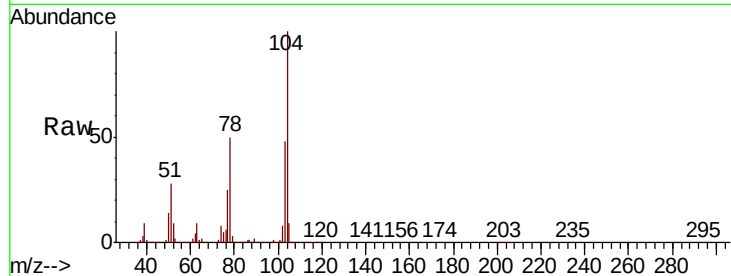
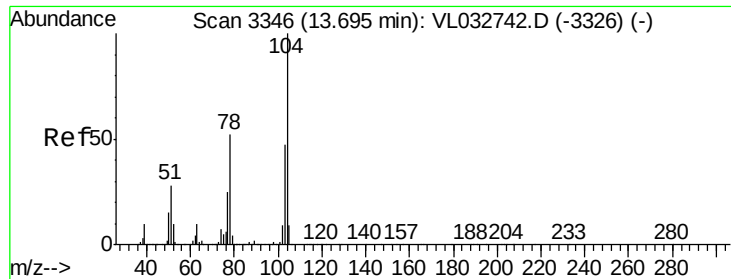
Tgt Ion: 91 Resp: 3597792

Ion Ratio Lower Upper

91 100

106 44.7 21.9 65.7





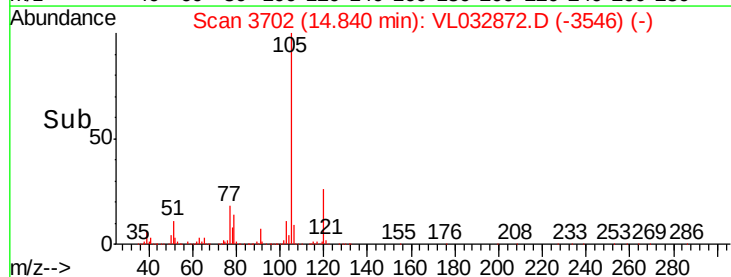
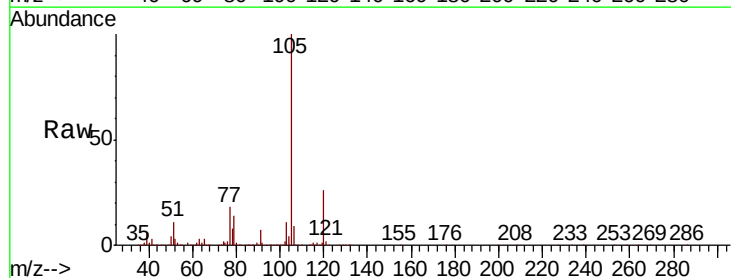
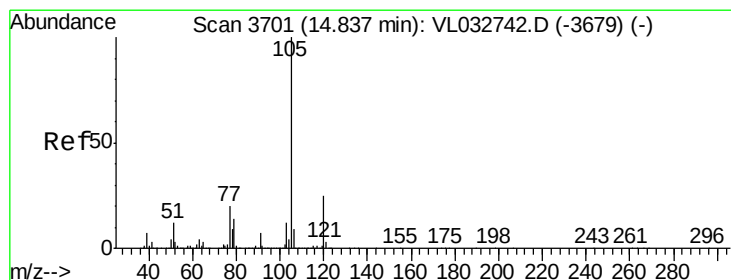
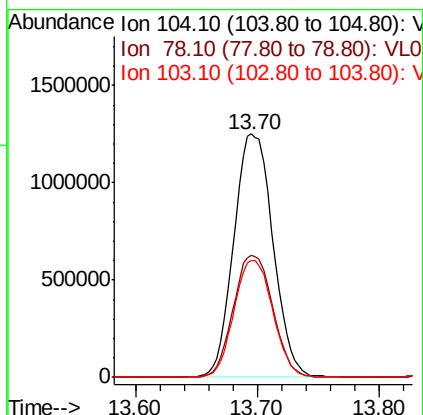
#61
Stvrene
Concen: 11.438 ppbv
RT: 13.70 min Scan# 3346
Delta R.T. -0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.5	42.2	63.4
103	47.7	38.2	57.2

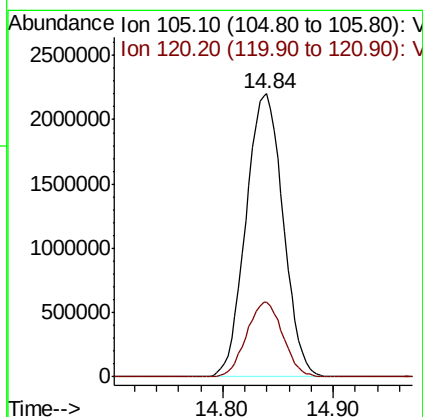
Manual Integrations
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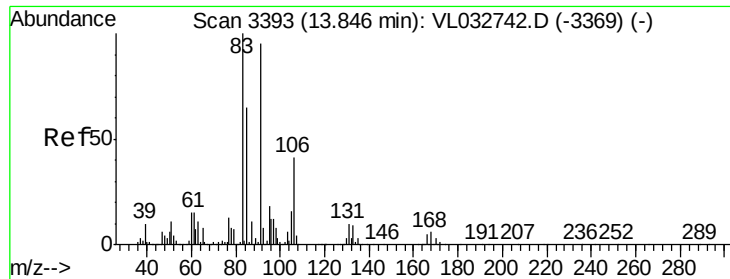
MMDadoda
12/3/2018 4:17:23 PM



#62
Isopropylbenzene
Concen: 10.207 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. 0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.1	30.1





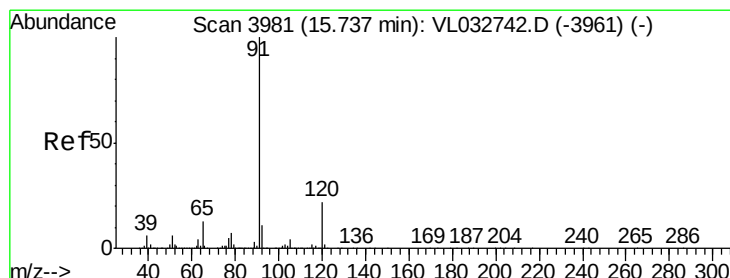
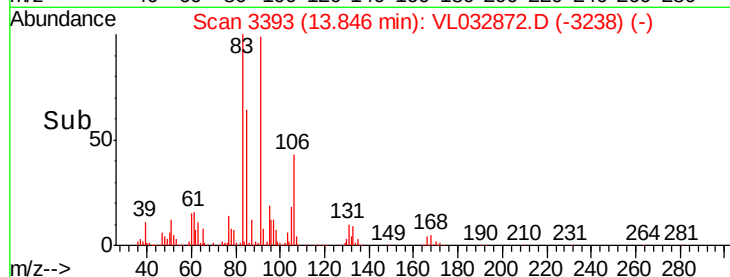
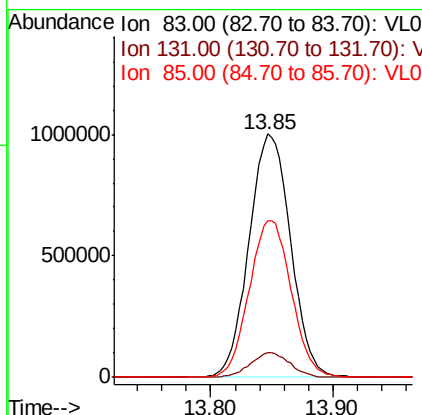
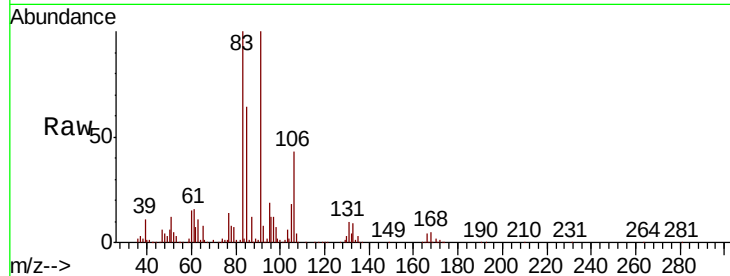
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.105 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2361501
Ion Ratio	100	Lower	Upper
83	100		
131	9.9	4.7	14.1
85	65.4	32.5	97.4

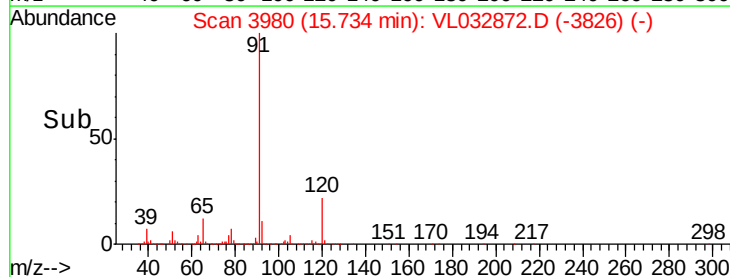
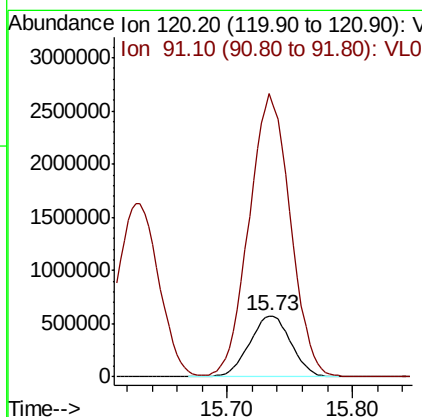
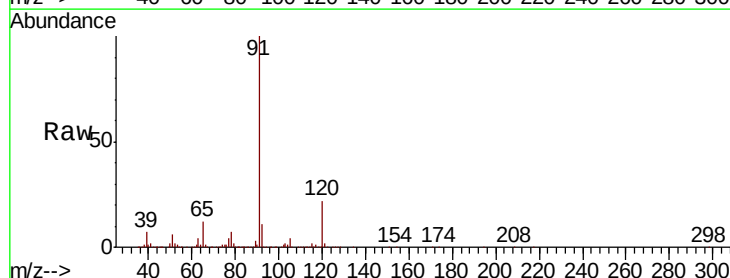
Manual Integrations
 APPROVED

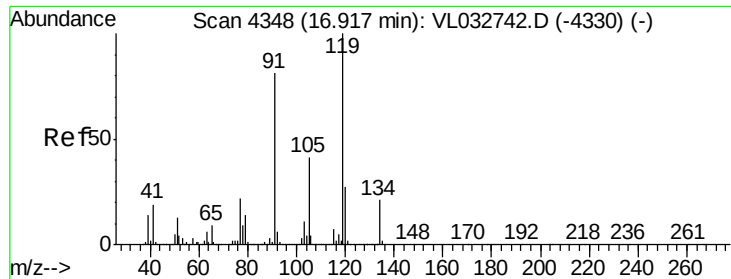
MMDadoda
 12/3/2018 4:17:23 PM



#64
 n-propylbenzene
 Concen: 9.918 ppbv
 RT: 15.73 min Scan# 3980
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion	120	Resp	1317994
Ion Ratio	100	Lower	Upper
120	100		
91	463.4	381.7	572.5





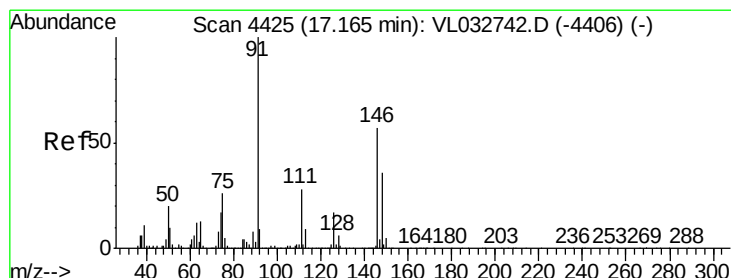
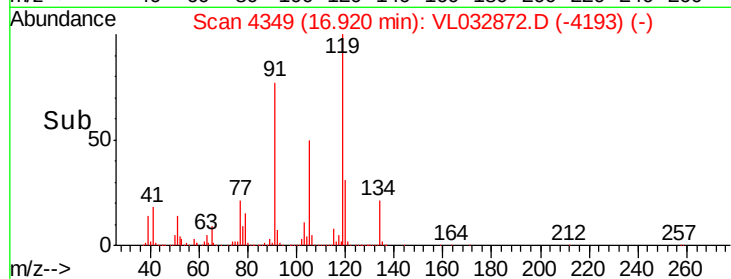
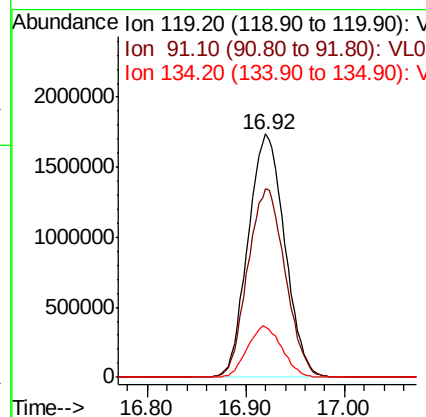
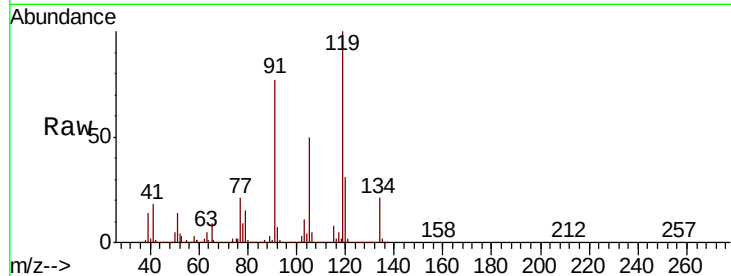
#65
 tert-Butylbenzene
 Concen: 9.840 ppbv
 RT: 16.92 min Scan# 4349
 Delta R.T. 0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	79.5	65.6	98.4
134	20.0	15.9	23.9

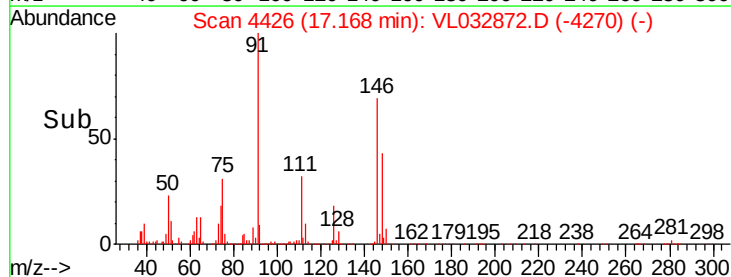
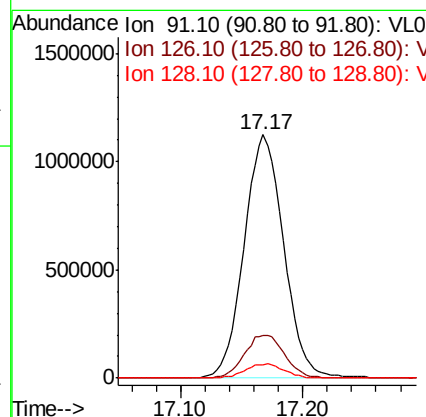
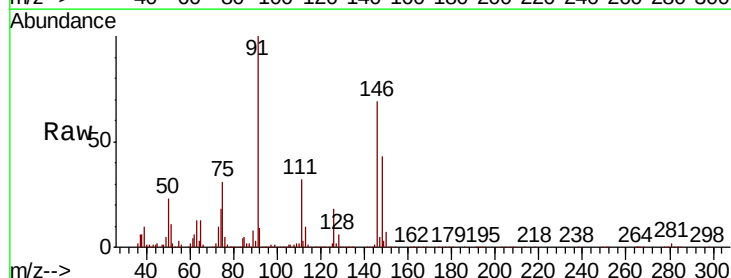
Manual Integrations
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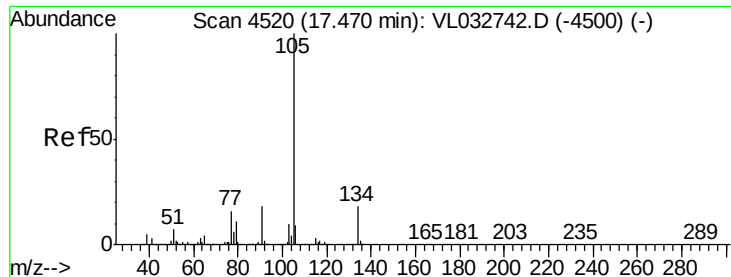
MMDadoda
 12/3/2018 4:17:23 PM



#66
 Benzyl Chloride
 Concen: 9.995 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. 0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.3	14.2	21.2
128	5.8	4.5	6.7





#67

sec-Butylbenzene

Concen: 9.560 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6239440

Ion Ratio Lower Upper

105 100

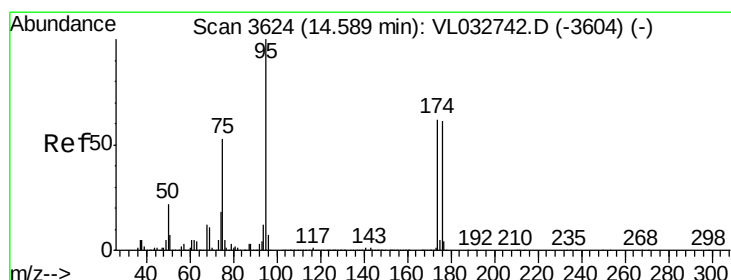
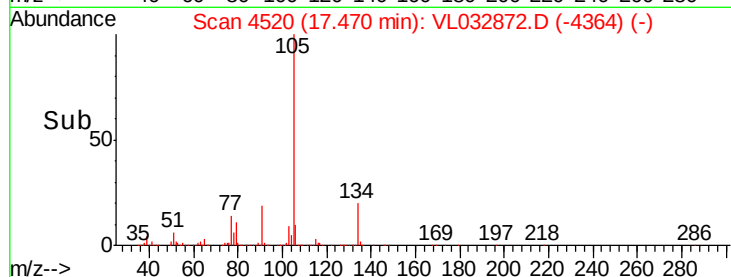
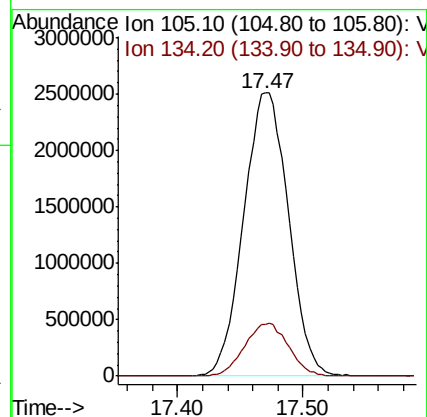
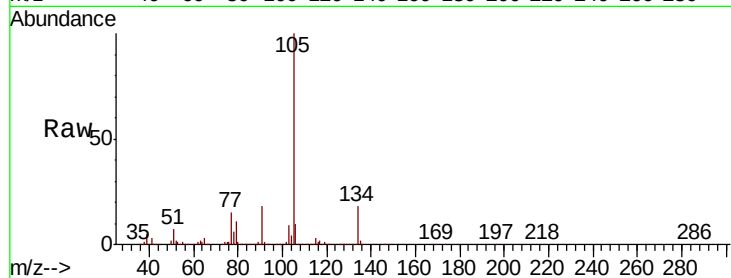
134 18.4 14.6 21.8

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.725 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

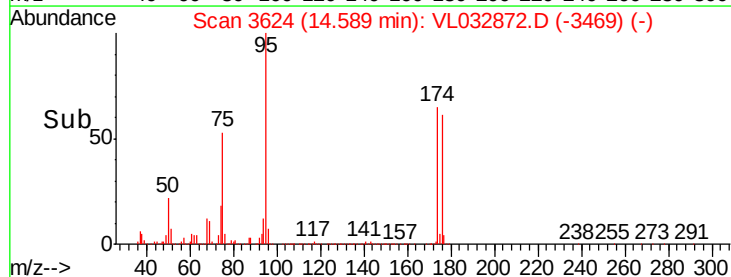
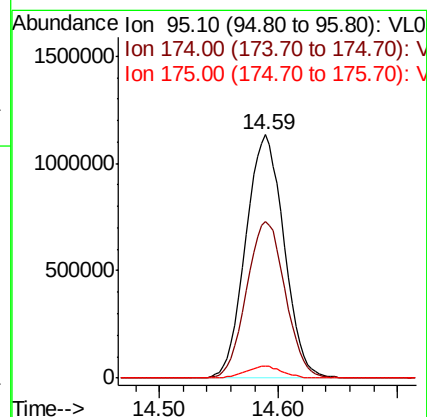
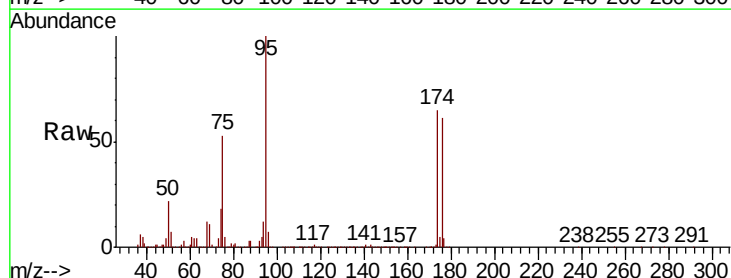
Tgt Ion: 95 Resp: 2523754

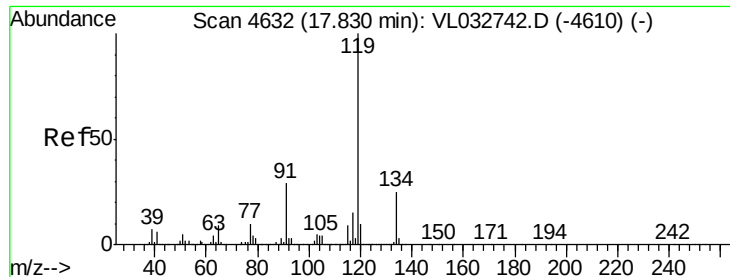
Ion Ratio Lower Upper

95 100

174 65.4 50.7 76.1

175 4.8 3.8 5.6





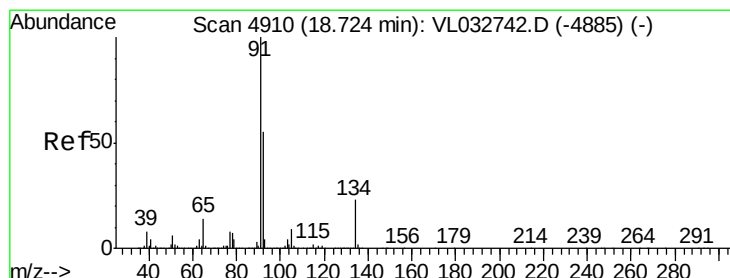
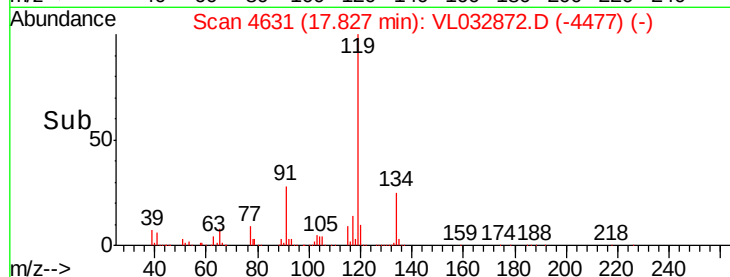
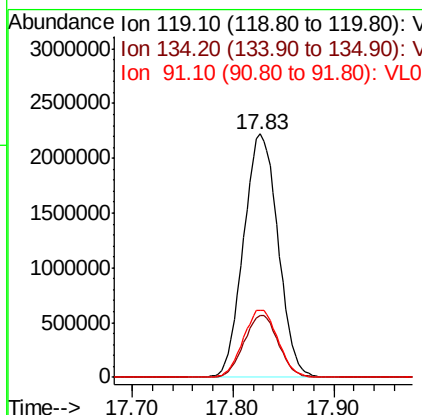
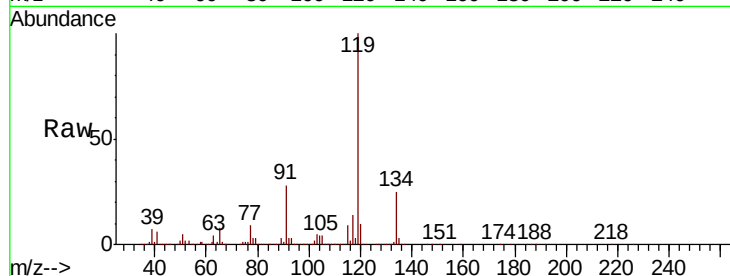
#69
 p-Isopropyltoluene
 Concen: 10.126 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.2	30.4
91	27.8	23.5	35.3

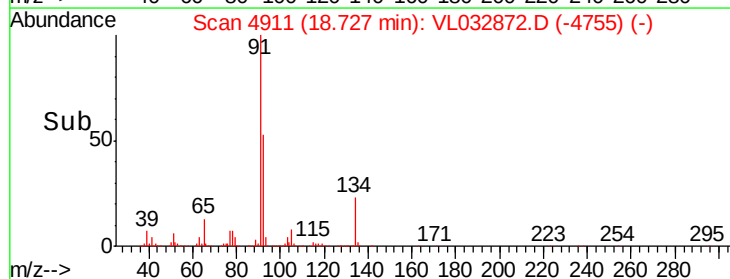
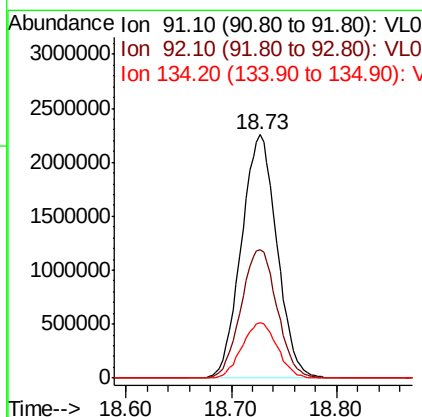
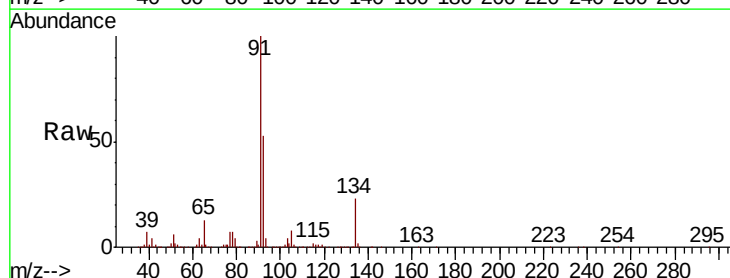
Manual Integrations
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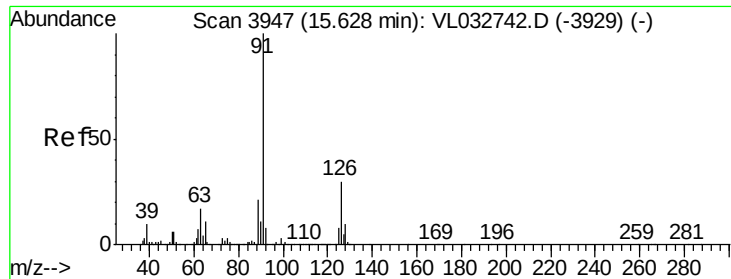
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#70
 n-Butylbenzene
 Concen: 10.008 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.6	42.9	64.3
134	22.7	17.8	26.8





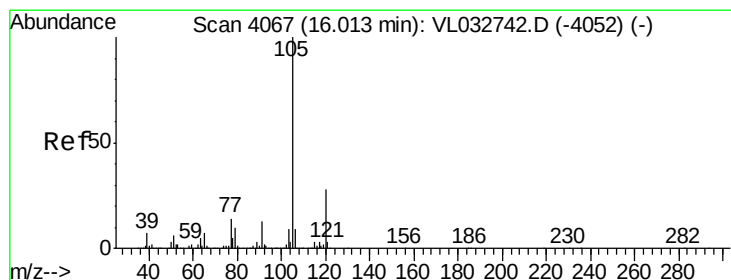
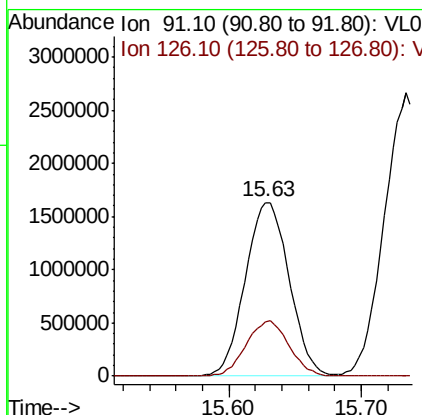
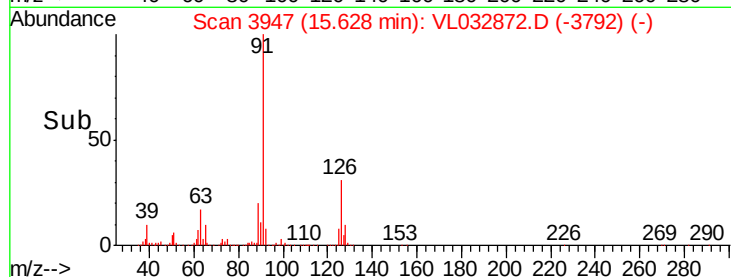
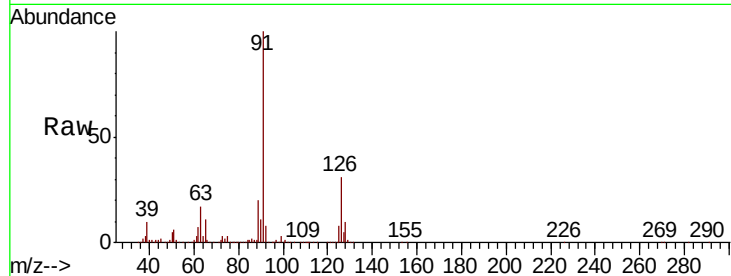
#71
 2-Chlorotoluene
 Concen: 9.989 ppbv
 RT: 15.63 min Scan# 3947
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 3763581
 Ion Ratio Lower Upper
 91 100
 126 31.2 12.1 48.5

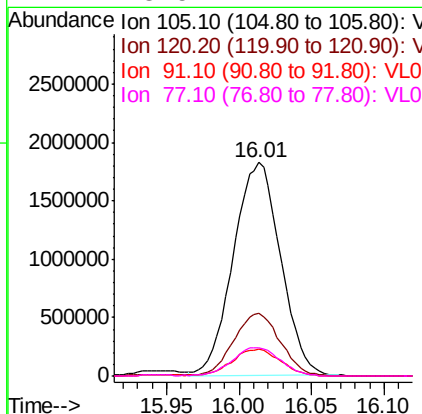
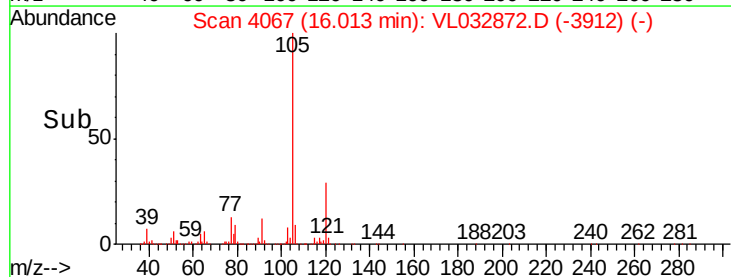
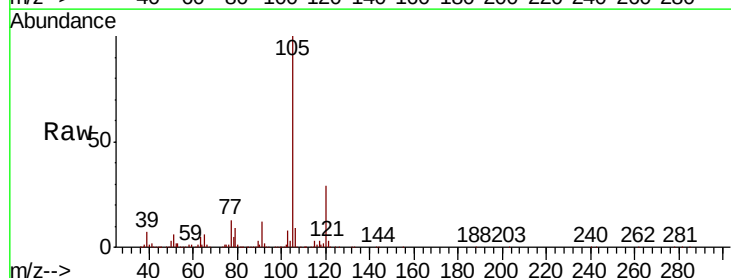
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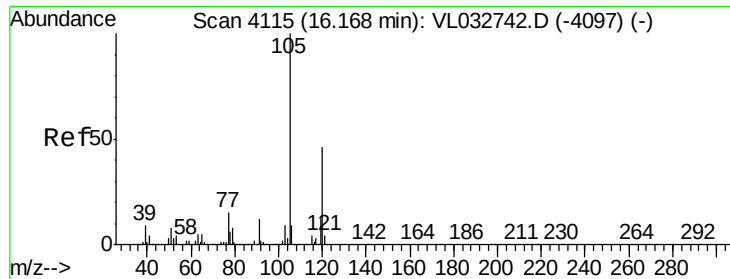
MMDadoda
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#72
 4-Ethyltoluene
 Concen: 10.115 ppbv
 RT: 16.01 min Scan# 4067
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion: 105 Resp: 4144163
 Ion Ratio Lower Upper
 105 100
 120 29.1 22.9 34.3
 91 13.3 10.6 15.8
 77 13.5 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 9.793 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3922626

Ion Ratio Lower Upper

105 100

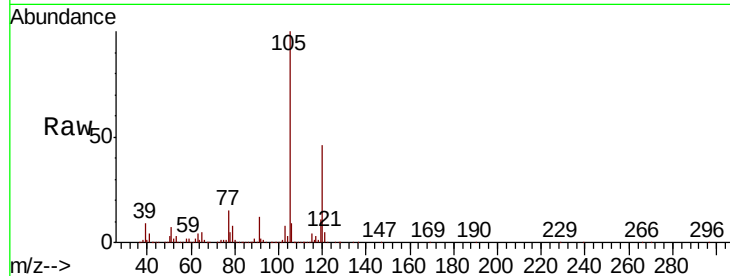
120 45.8 36.6 55.0

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

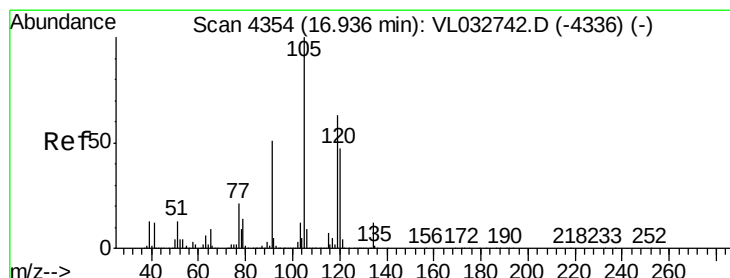
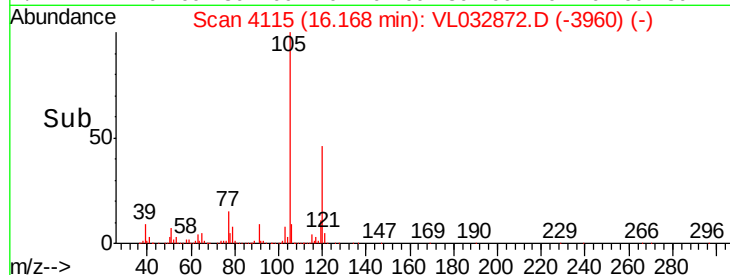
1000000

500000

0

16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.310 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. 0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Tgt Ion:105 Resp: 3990465

Ion Ratio Lower Upper

105 100

120 48.0 37.6 56.4

91 45.0 42.5 63.7

77 20.3 17.4 26.2

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2500000

2000000

1500000

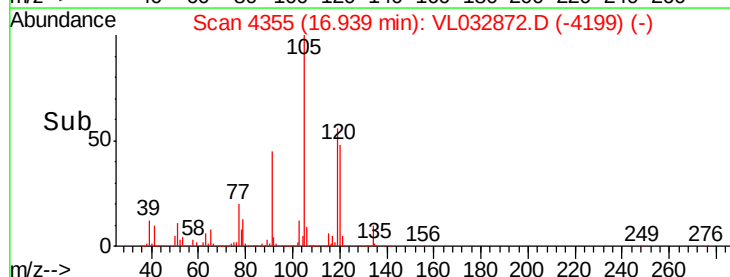
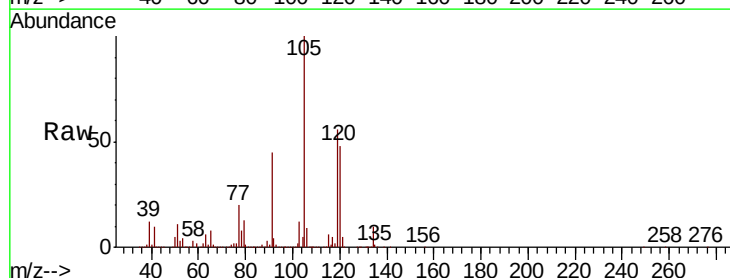
1000000

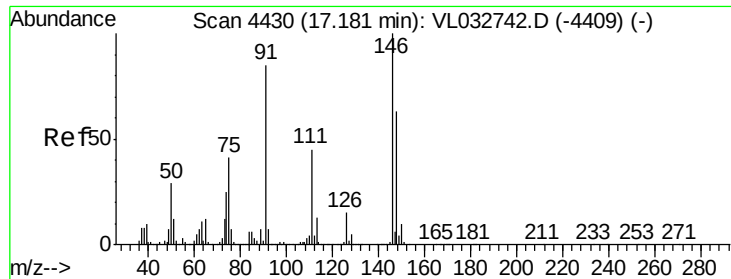
500000

0

16.80 16.90 17.00

Time-->





#75

1,3-Dichlorobenzene

Concen: 9.299 ppbv

RT: 17.18 min Scan# 4429

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2286233

Ion Ratio Lower Upper

146 100

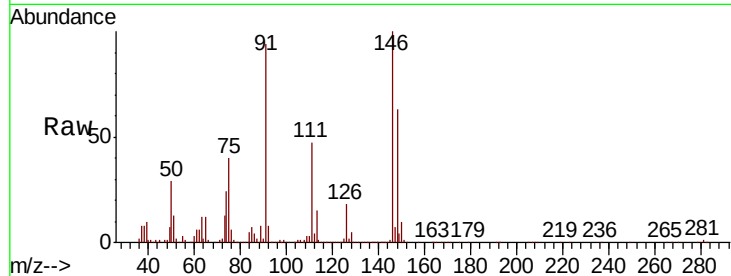
111 47.4 23.5 70.6

148 64.1 31.8 95.3

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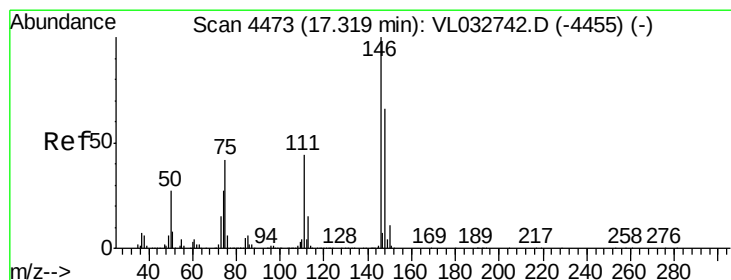
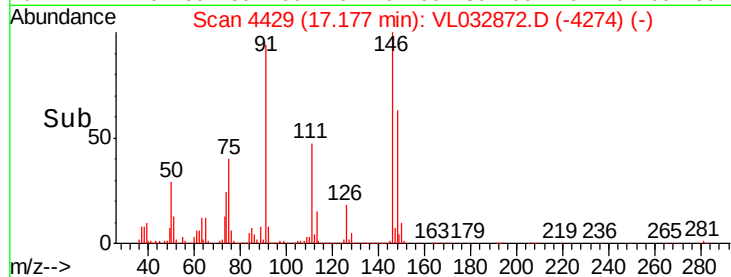
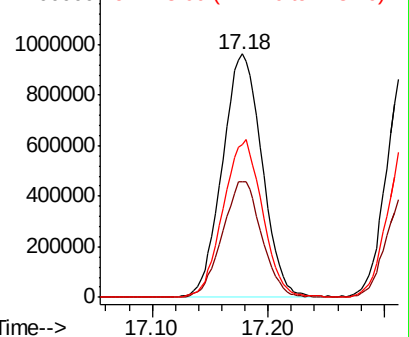
12/3/2018 4:17:23 PM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.772 ppbv

RT: 17.32 min Scan# 4473

Delta R.T. -0.00 min

Lab File: VL032872.D

Acq: 1 Dec 2018 6:03

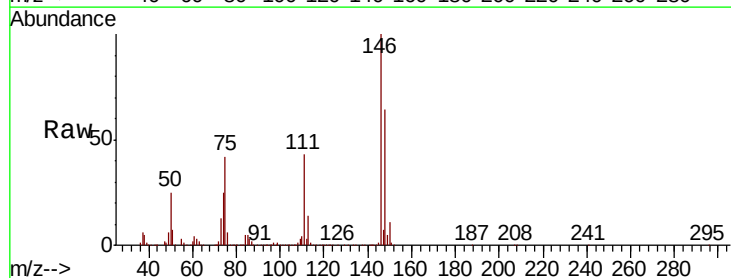
Tgt Ion:146 Resp: 2244307

Ion Ratio Lower Upper

146 100

111 45.0 22.5 67.5

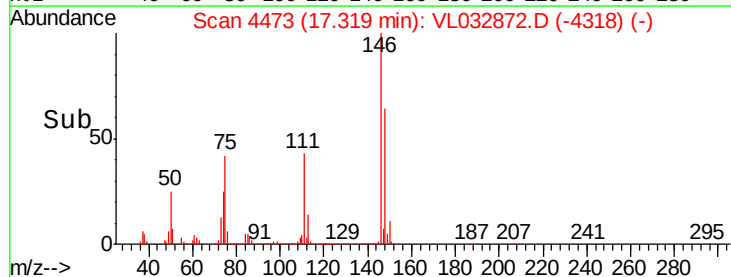
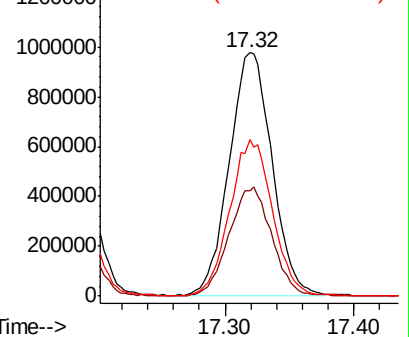
148 64.7 32.5 97.5

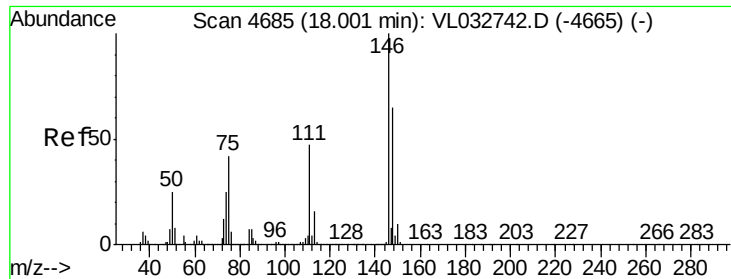


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





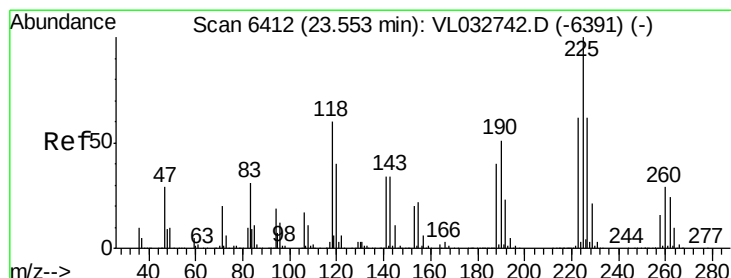
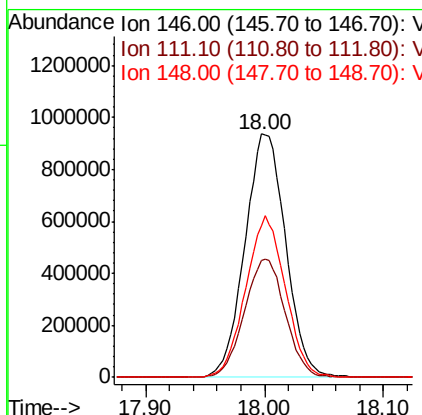
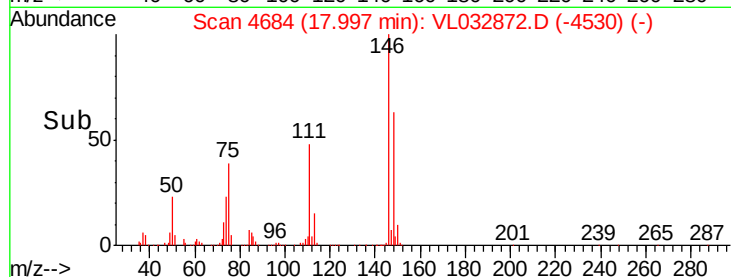
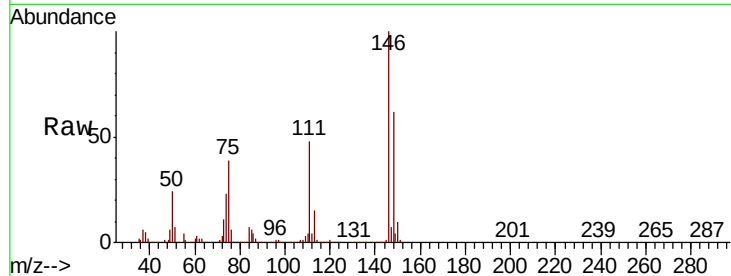
#77
 1,2-Dichlorobenzene
 Concen: 9.771 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. -0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.8	24.4	73.2
148	64.4	32.2	96.6

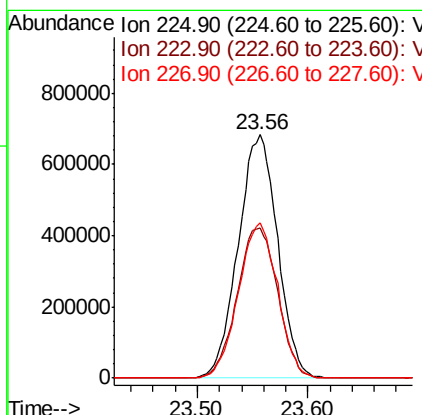
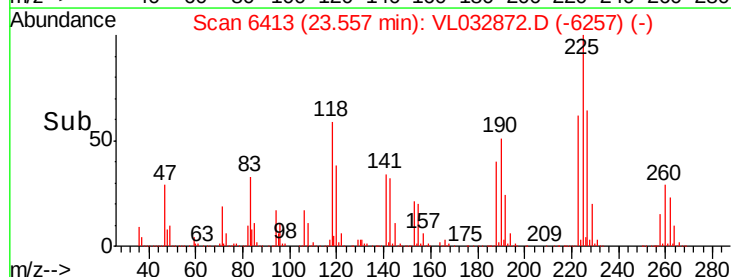
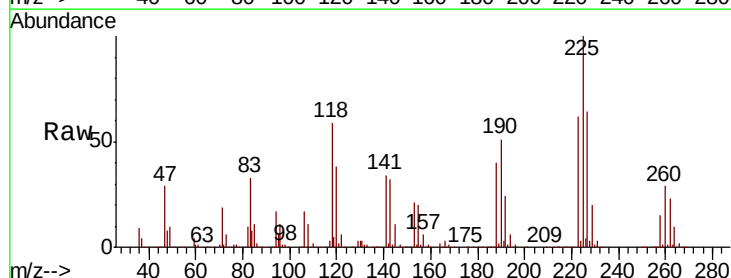
Manual Integrations
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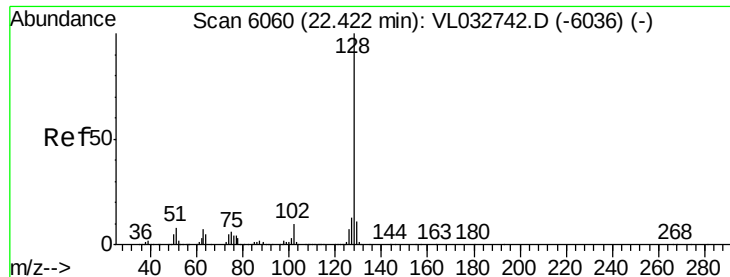
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#78
 Hexachloro-1,3-Butadiene
 Concen: 13.776 ppbv
 RT: 23.56 min Scan# 6413
 Delta R.T. 0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.3	75.5
227	63.4	50.2	75.4





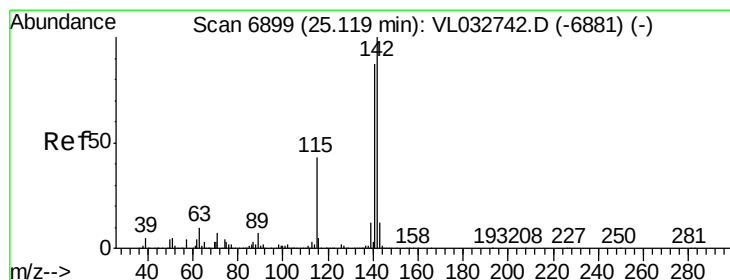
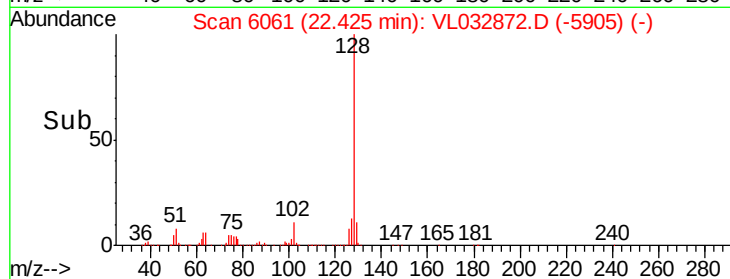
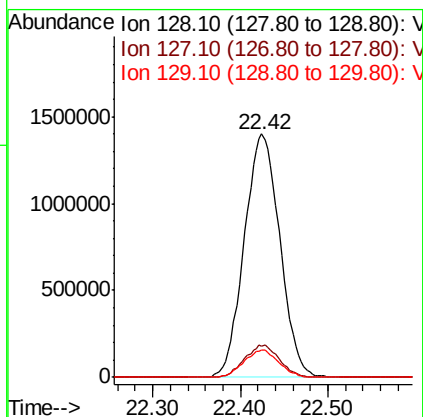
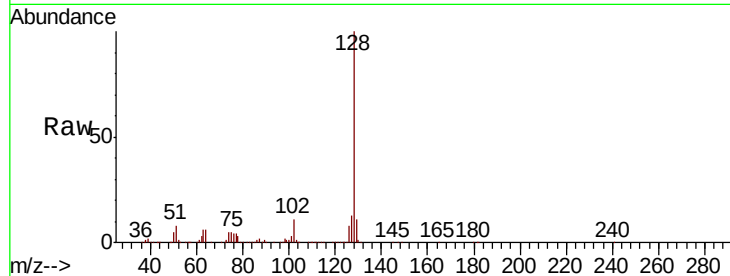
#79
Naphthalene
Concen: 14.010 ppbv
RT: 22.42 min Scan# 6061
Delta R.T. 0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	11.2	8.9	13.3

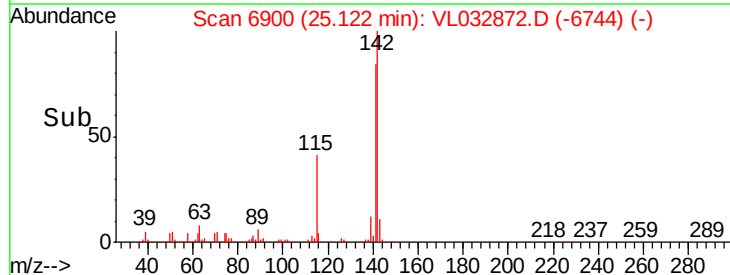
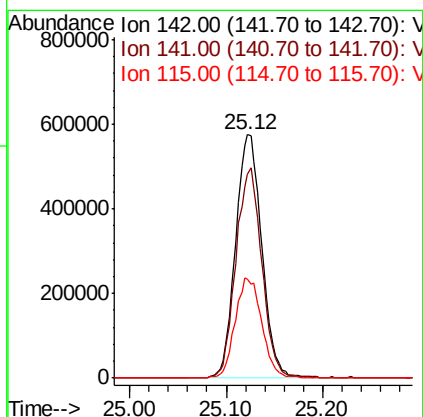
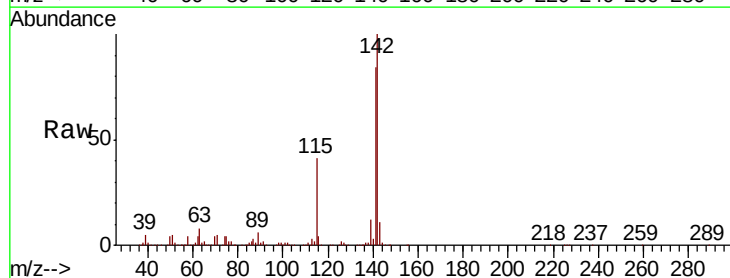
Manual Integrations
APPROVED

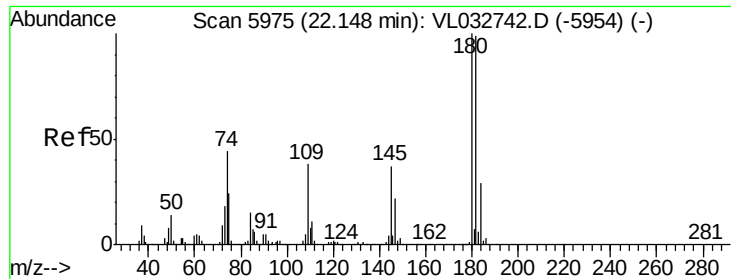
MMDadoda
12/3/2018 4:17:23 PM



#80
Naphthalene, 2-methyl-
Concen: 15.375 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.00 min
Lab File: VL032872.D
Acq: 1 Dec 2018 6:03

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.8	68.7	103.1
115	42.2	35.5	53.3





#81
 1,2,4-Trichlorobenzene
 Concen: 13.349 ppbv
 RT: 22.15 min Scan# 5976
 Delta R.T. 0.00 min
 Lab File: VL032872.D
 Acq: 1 Dec 2018 6:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.3	115.9
184	29.9	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 12/3/2018 4:17:23 PM

