

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081618\
 Data File : VL032404.D
 Acq On : 17 Aug 2018 12:40
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

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 8/28/2018 2:53:01 PM

Quant Time: Aug 18 00:06:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1775150	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	3687000	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3627463m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	2736165	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	1827243	12.94	ppbv	99
3) Chlorodifluoromethane	3.05	51	1643818	10.00	ppbv	100
4) Chloromethane	3.21	50	991599	10.13	ppbv	95
5) Vinyl Chloride	3.33	62	937845	10.05	ppbv	97
6) Bromomethane	3.55	94	513676	10.27	ppbv	99
7) Chloroethane	3.64	64	338449	10.35	ppbv	94
8) Dichlorotetrafluoroethane	3.26	85	1946745	9.70	ppbv	99
9) Propene	3.07	41	784753	11.15	ppbv	99
10) Heptane	8.31	43	2602595	12.28	ppbv	100
11) Trichlorofluoromethane	4.05	101	1951637	9.83	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1302963	9.75	ppbv	98
13) Ethanol	3.69	45	201381	11.14	ppbv	94
14) Bromoethene	3.83	108	608607	10.53	ppbv	99
15) Acetone	3.95	43	1558729	9.24	ppbv	100
16) 1,3-Butadiene	3.40	39	758059	10.89	ppbv	91
17) tert-Butyl alcohol	4.40	59	301649	10.66	ppbv	100
18) 1,1-Dichloroethene	4.40	96	632372	10.15	ppbv	95
19) Isopropyl Alcohol	4.06	45	1226136	10.80	ppbv	100
20) Methylene Chloride	4.46	84	556960	8.74	ppbv	92
21) Allyl Chloride	4.52	41	1156358	10.86	ppbv	100
22) trans-1,2-Dichloroethene	5.01	96	679040	10.81	ppbv	98
23) Vinyl Acetate	5.21	43	3062432	10.52	ppbv	99
24) 1,1-Dichloroethane	5.14	63	2148772	10.22	ppbv	99
25) Ethyl Acetate	5.82	43	3758132	10.40	ppbv	99
26) Hexane	5.84	57	1701217	10.56	ppbv	99
27) Carbon Disulfide	4.67	76	1642134	10.92	ppbv	100
28) Methyl tert-Butyl Ether	5.16	73	2364548	11.06	ppbv	100
29) Chloroform	5.90	83	2474293	10.48	ppbv	99
30) Cyclohexane	7.31	84	1374287	11.20	ppbv	98
31) cis-1,2-Dichloroethene	5.69	61	1768243	11.22	ppbv	98
32) 1,1,1-Trichloroethane	6.68	97	2275514	9.90	ppbv	99
34) 2-Butanone	5.38	43	2673309	10.65	ppbv	98
35) Carbon Tetrachloride	7.20	117	2369705	10.90	ppbv	95
36) Benzene	7.07	78	3390910	10.85	ppbv	100
37) 1,2-Dichloroethane	6.47	62	1962656	10.35	ppbv	99
38) Trichloroethene	8.03	130	1224526	11.17	ppbv	99
39) 1,2-Dichloropropane	7.80	63	1370475	10.50	ppbv	100
40) 1,4-Dioxane	8.02	88	478845	12.07	ppbv	84
41) Tetrahydrofuran	6.20	42	1557042	11.56	ppbv	99
42) Bromodichloromethane	7.98	83	2692860	10.84	ppbv	98
43) Methyl Methacrylate	8.20	69	1568065	12.59	ppbv	99

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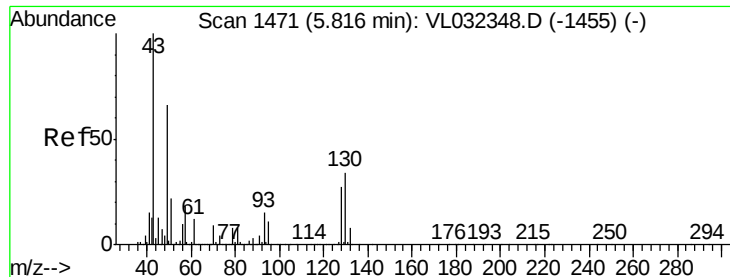
Manual Integrations
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Quant Time: Aug 18 00:06:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	6528799	11.58	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	1849975	11.74	ppbv	96
46) cis-1,3-Dichloropropene	8.90	75	2299237	12.17	ppbv	98
47) 1,1,2-Trichloroethane	9.68	97	1311565	9.13	ppbv	96
48) Dibromochloromethane	10.52	129	2052170	10.68	ppbv	99
49) Bromoform	13.27	173	1732304	10.86	ppbv	100
50) 4-Methyl-2-Pentanone	8.93	43	3990834	11.01	ppbv	100
51) 2-Hexanone	10.34	43	2831760	11.13	ppbv	99
52) Tetrachloroethene	11.44	164	966972	10.49	ppbv	96
53) Toluene	10.01	91	3696880	10.79	ppbv	99
54) 1,2-Dibromoethane	10.83	107	1966512	10.65	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.35	131	1518232	10.12	ppbv #	59
57) Chlorobenzene	12.37	112	2728574	9.99	ppbv	96
58) Ethyl Benzene	12.93	91	4931536	11.30	ppbv	100
59) m/p-Xylene	13.22	91	8001217m	21.58	ppbv	
60) o-Xylene	13.92	91	3858645	10.59	ppbv	100
61) Styrene	13.75	104	3019176	11.86	ppbv	100
62) Isopropylbenzene	14.89	105	5468903	10.54	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.90	83	2928401	9.56	ppbv	100
64) n-propylbenzene	15.79	120	1445431	10.77	ppbv	97
65) tert-Butylbenzene	16.98	119	4699138	10.61	ppbv	100
66) Benzyl Chloride	17.22	91	3157329	12.03	ppbv	99
67) sec-Butylbenzene	17.53	105	7135366	10.83	ppbv	99
69) p-Isopropyltoluene	17.88	119	5648645	11.20	ppbv	100
70) n-Butylbenzene	18.78	91	6207867	11.23	ppbv	99
71) 2-Chlorotoluene	15.68	91	4415176	11.00	ppbv	100
72) 4-Ethyltoluene	16.07	105	4599490	11.32	ppbv	100
73) 1,3,5-Trimethylbenzene	16.23	105	4382359	11.21	ppbv	100
74) 1,2,4-Trimethylbenzene	17.00	105	4433756	10.66	ppbv	96
75) 1,3-Dichlorobenzene	17.23	146	2495029	9.98	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	2532092	10.69	ppbv	100
77) 1,2-Dichlorobenzene	18.06	146	2505702	10.49	ppbv	100
78) Hexachloro-1,3-Butadiene	23.60	225	759658	9.48	ppbv	100
79) Naphthalene	22.49	128	4129905	10.60	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1658657	19.99	ppbv	100
81) 1,2,4-Trichlorobenzene	22.21	180	1933361	12.02	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1775150

Ion Ratio Lower Upper

49 100

128 40.5 20.5 61.6

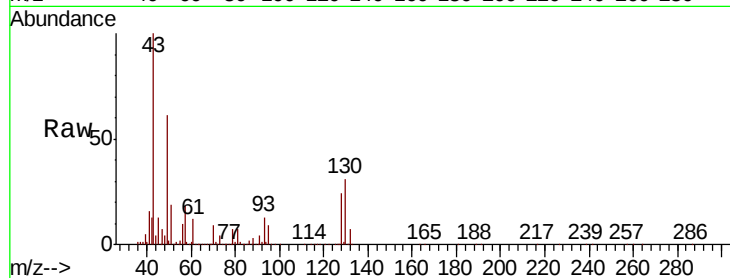
130 51.3 26.2 78.5

Manual Integrations

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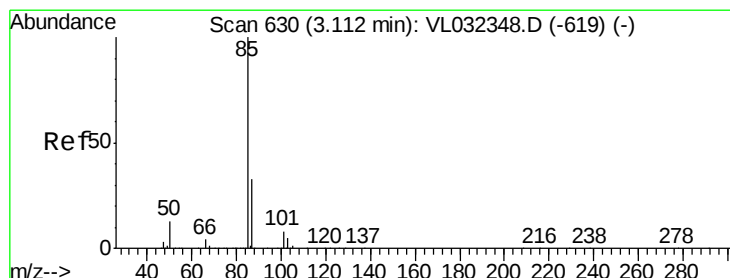
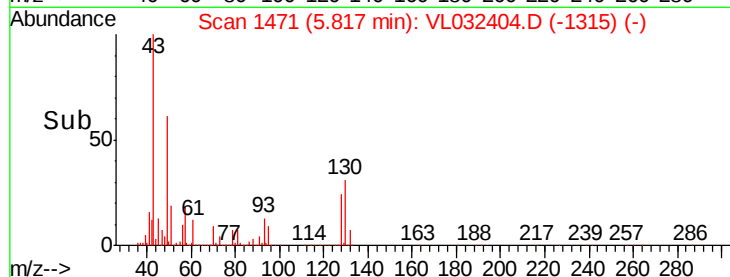
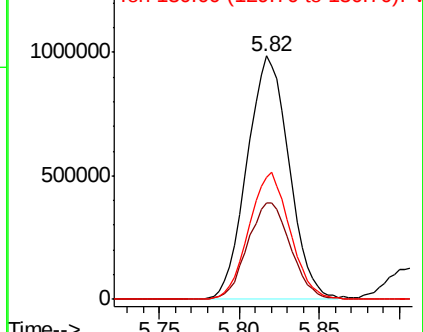
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 12.94 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032404.D

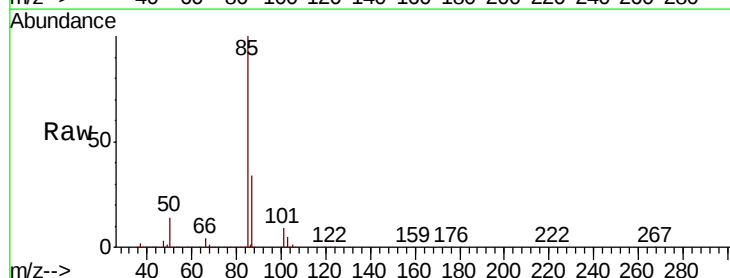
Acq: 17 Aug 2018 12:40

Tgt Ion: 85 Resp: 1827243

Ion Ratio Lower Upper

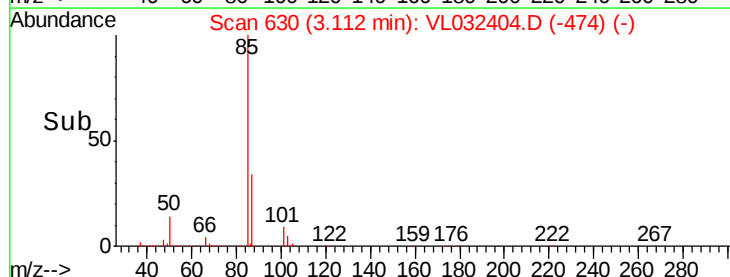
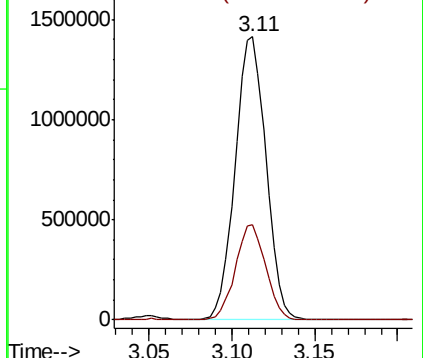
85 100

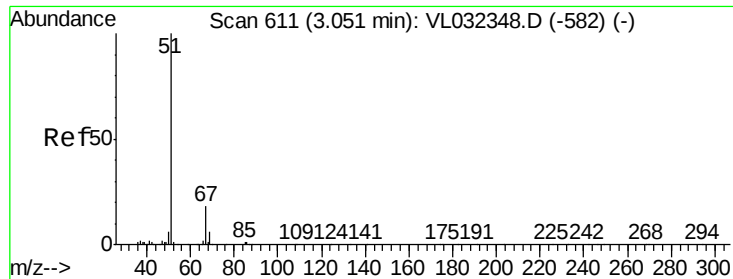
87 33.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





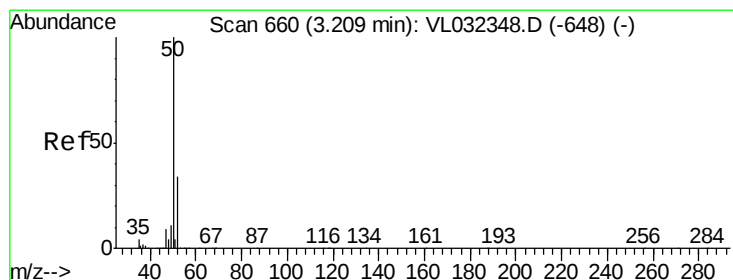
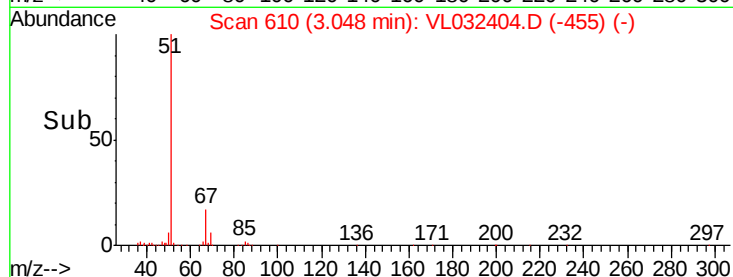
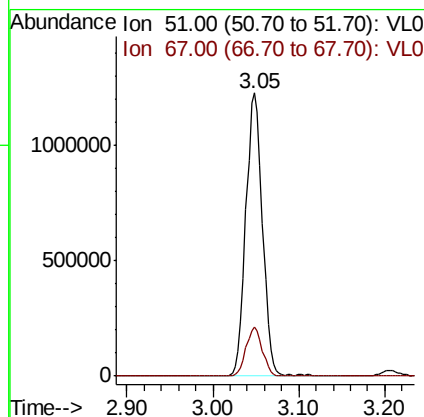
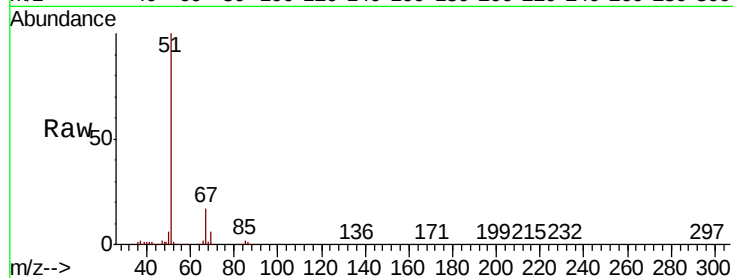
#3
 Chlorodifluoromethane
 Concen: 10.00 ppbv
 RT: 3.05 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 51 Resp: 1643818
 Ion Ratio Lower Upper
 51 100
 67 16.9 13.7 20.5

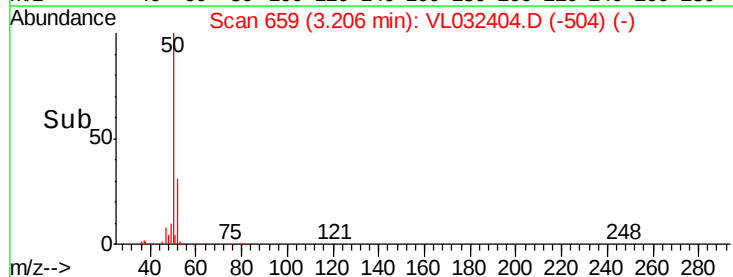
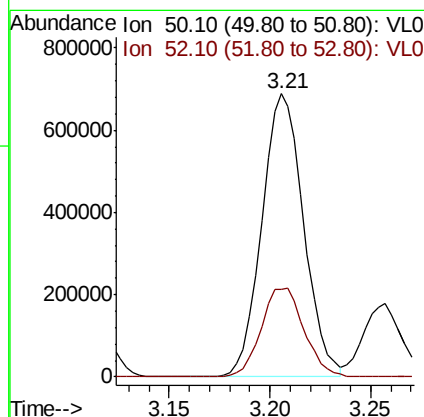
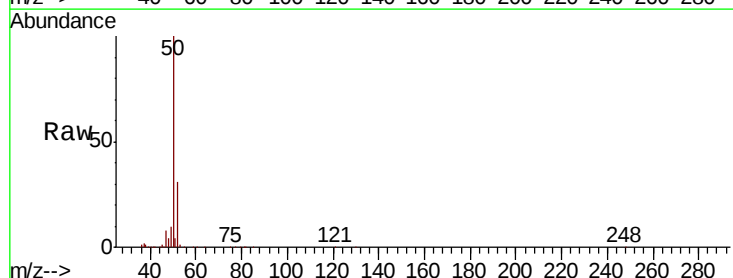
Manual Integrations
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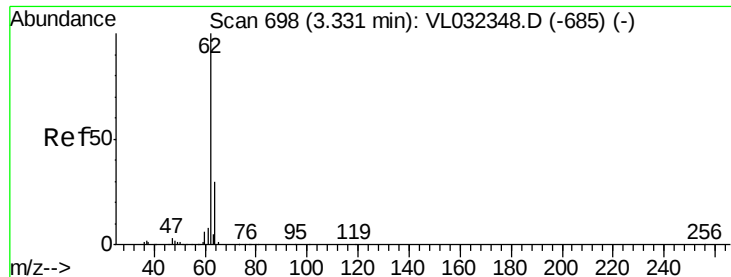
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#4
 Chloromethane
 Concen: 10.13 ppbv
 RT: 3.21 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion: 50 Resp: 991599
 Ion Ratio Lower Upper
 50 100
 52 30.8 26.8 40.2





#5

Vinyl Chloride

Concen: 10.05 ppbv

RT: 3.33 min Scan# 697

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 937845

Ion Ratio Lower Upper

62 100

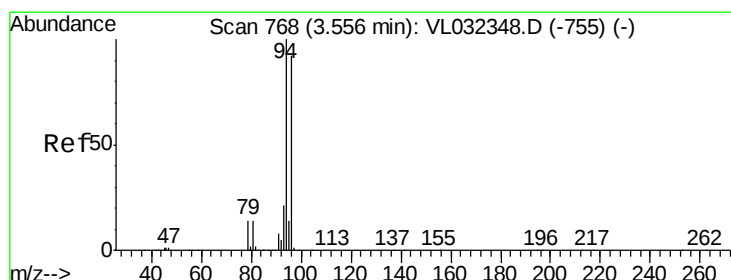
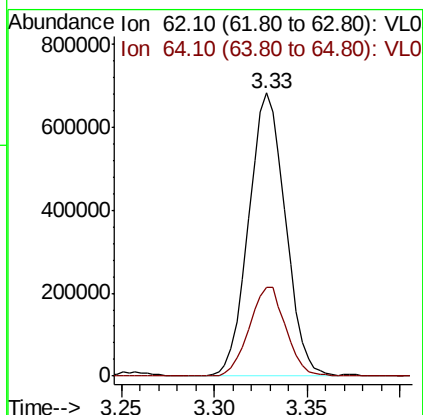
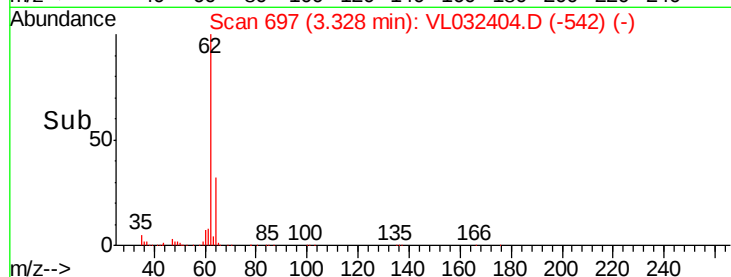
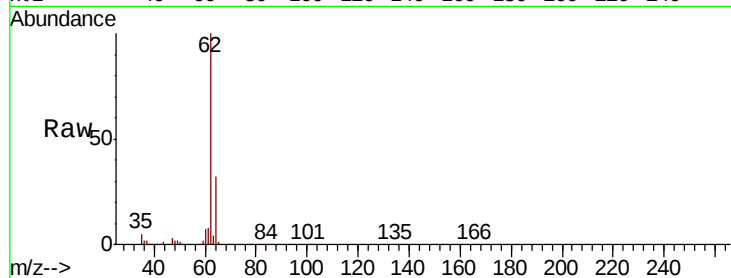
64 31.6 24.2 36.2

Manual Integrations

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#6

Bromomethane

Concen: 10.27 ppbv

RT: 3.55 min Scan# 767

Delta R.T. -0.00 min

Lab File: VL032404.D

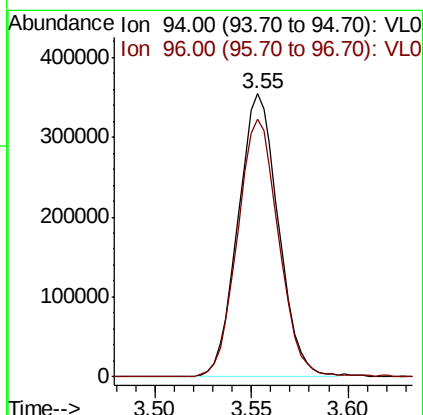
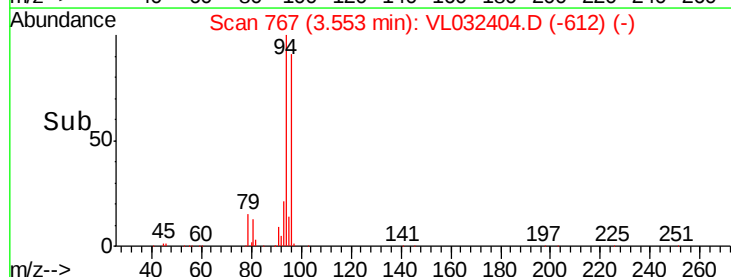
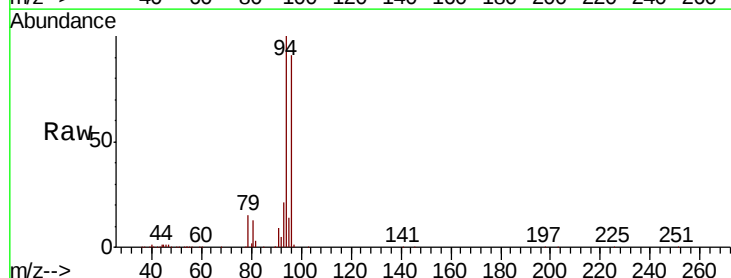
Acq: 17 Aug 2018 12:40

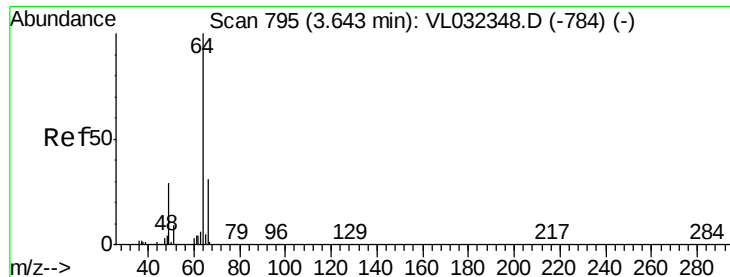
Tgt Ion: 94 Resp: 513676

Ion Ratio Lower Upper

94 100

96 90.9 73.7 110.5





#7

Chloroethane

Concen: 10.35 ppbv

RT: 3.64 min Scan# 794

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 338449

Ion Ratio Lower Upper

64 100

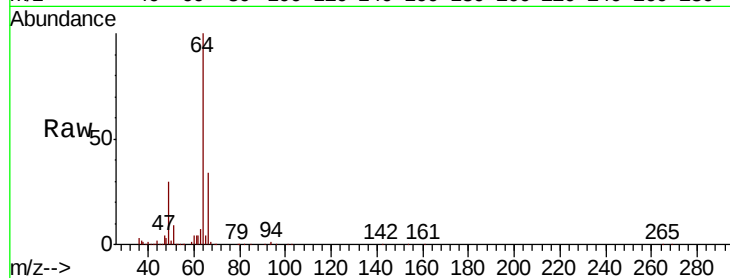
66 34.1 24.6 36.8

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

250000

200000

150000

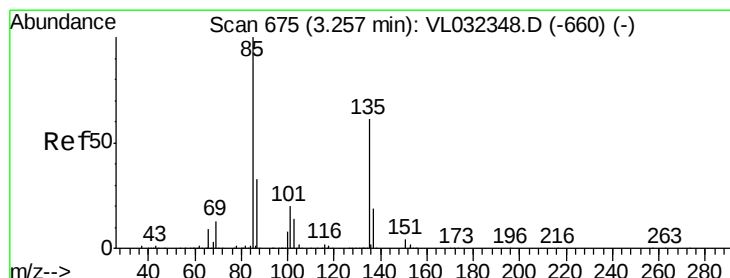
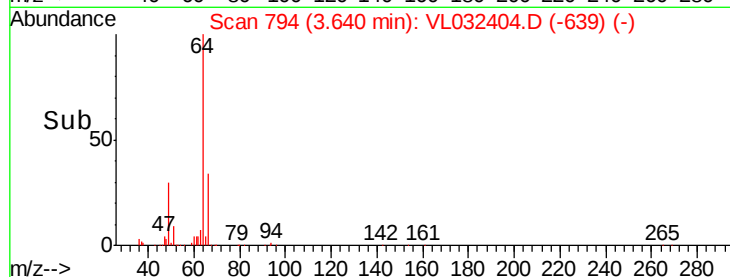
100000

50000

0

3.60 3.65 3.70

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.70 ppbv

RT: 3.26 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL032404.D

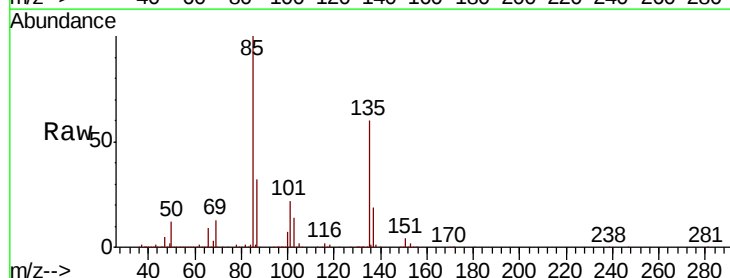
Acq: 17 Aug 2018 12:40

Tgt Ion: 85 Resp: 1946745

Ion Ratio Lower Upper

85 100

135 60.5 49.0 73.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

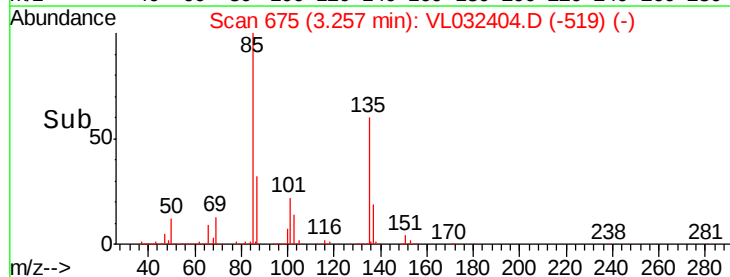
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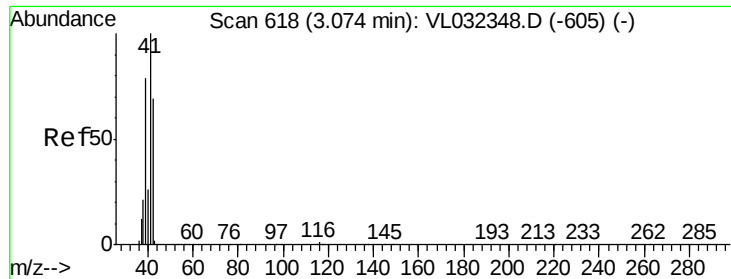
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3.20 3.25 3.30

Time-->





#9

Propene

Concen: 11.15 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 784753

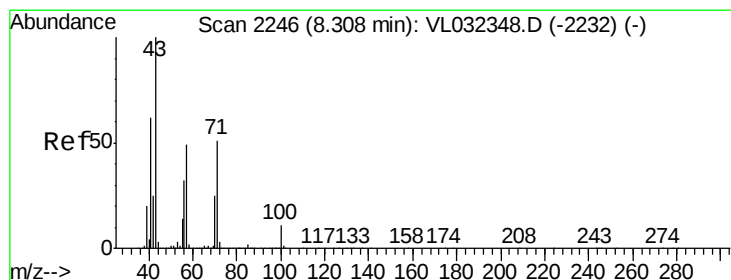
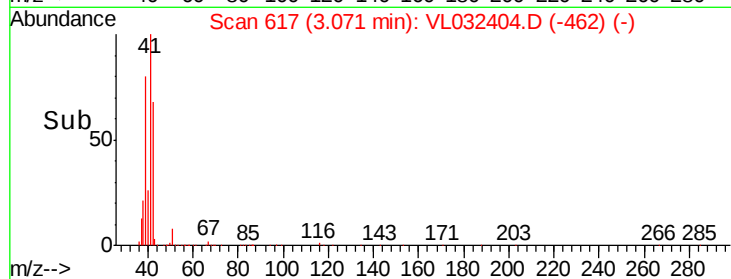
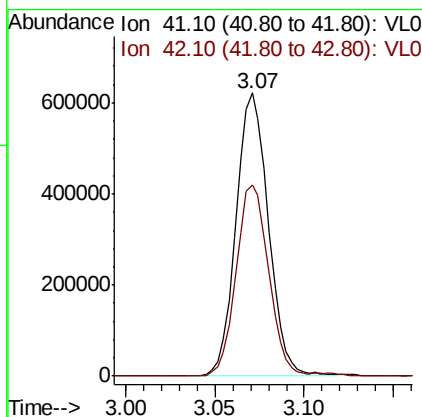
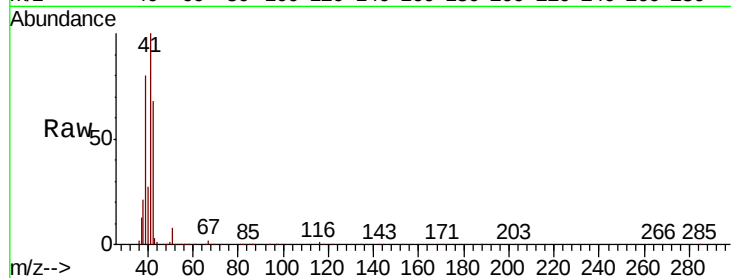
Ion Ratio Lower Upper

41 100

42 68.8 55.9 83.9

Manual Integrations
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#10

Heptane

Concen: 12.28 ppbv

RT: 8.31 min Scan# 2246

Delta R.T. 0.00 min

Lab File: VL032404.D

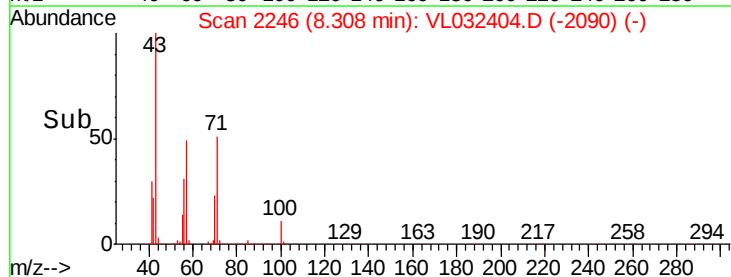
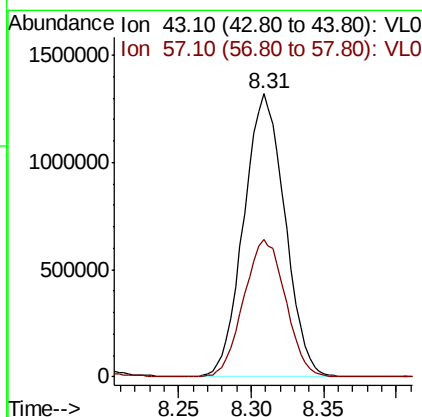
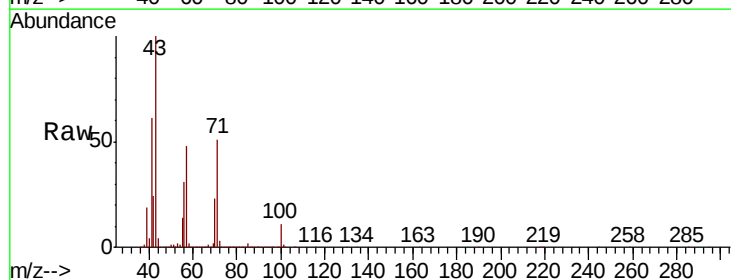
Acq: 17 Aug 2018 12:40

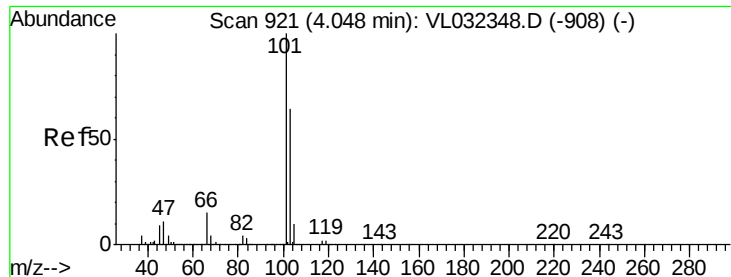
Tgt Ion: 43 Resp: 2602595

Ion Ratio Lower Upper

43 100

57 49.1 39.5 59.3





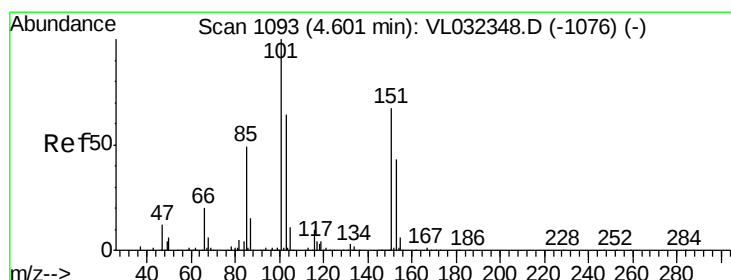
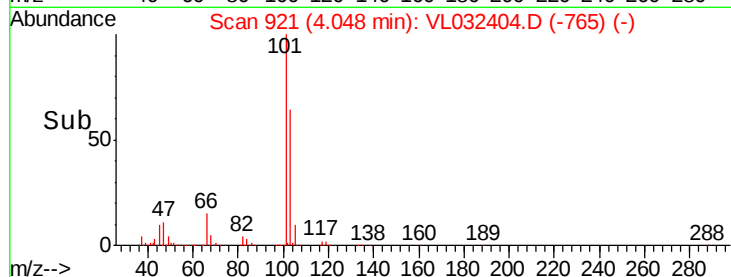
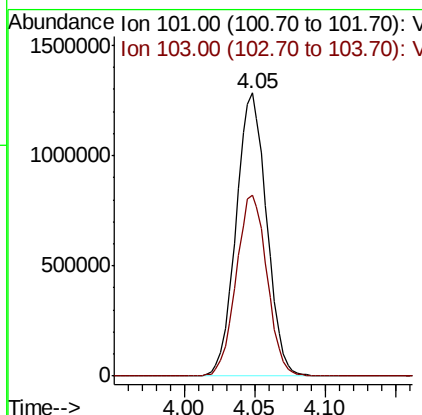
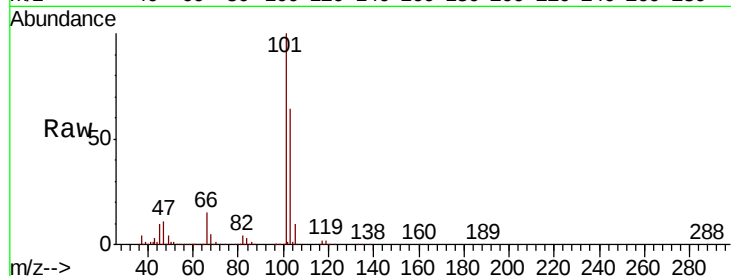
#11
 Trichlorofluoromethane
 Concen: 9.83 ppbv
 RT: 4.05 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1951637
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.4 77.0

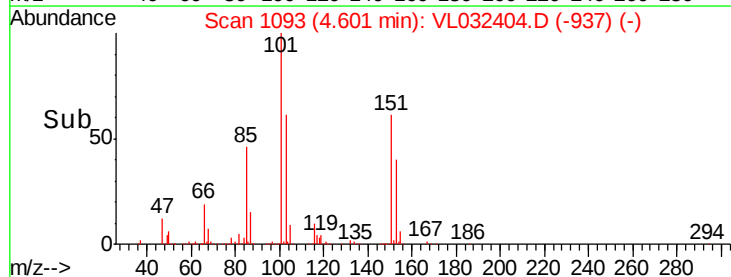
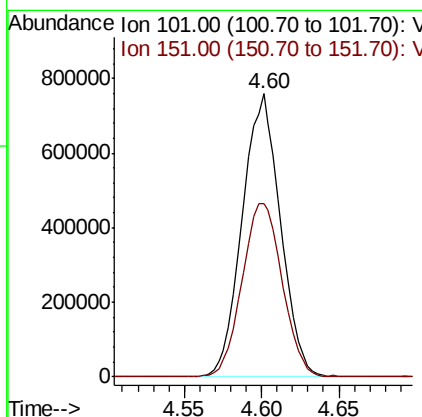
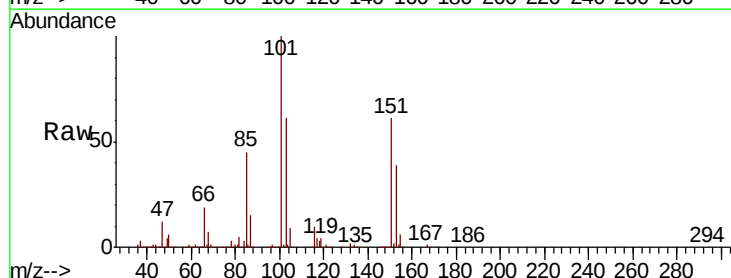
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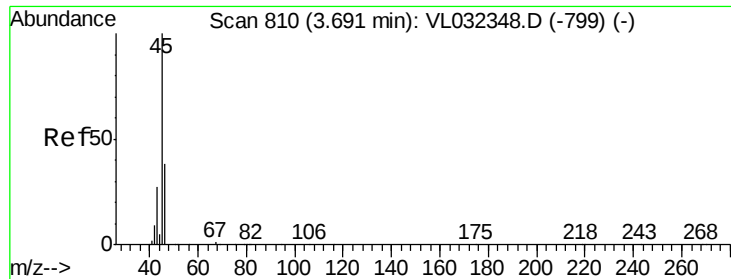
MMDadoda
 8/28/2018 2:53:01 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.75 ppbv
 RT: 4.60 min Scan# 1093
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion:101 Resp: 1302963
 Ion Ratio Lower Upper
 101 100
 151 64.5 53.1 79.7





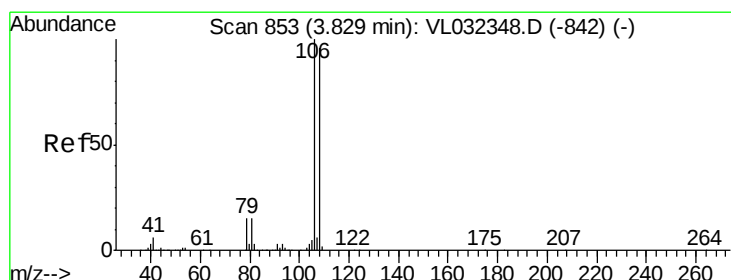
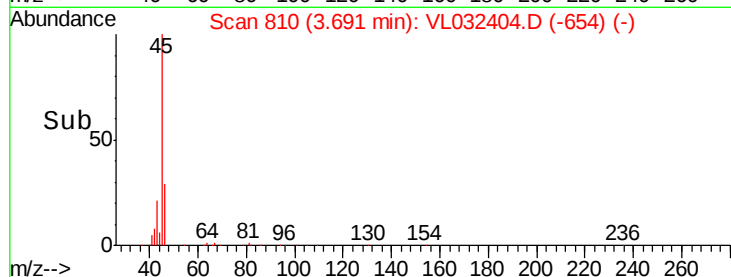
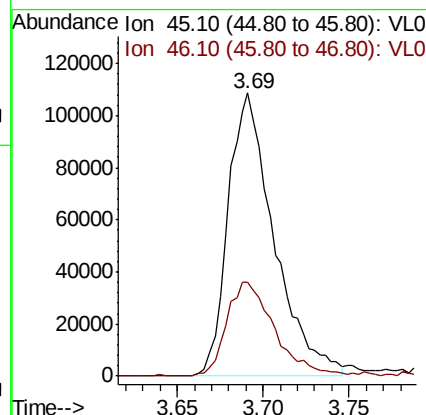
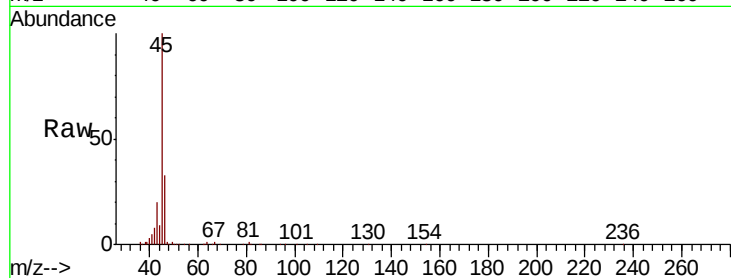
#13
Ethanol
Concen: 11.14 ppbv
RT: 3.69 min Scan# 810
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.4	15.6	62.4

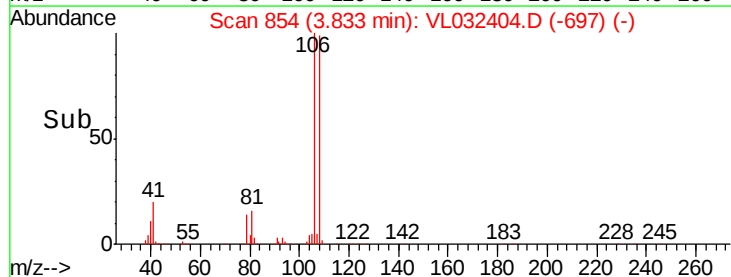
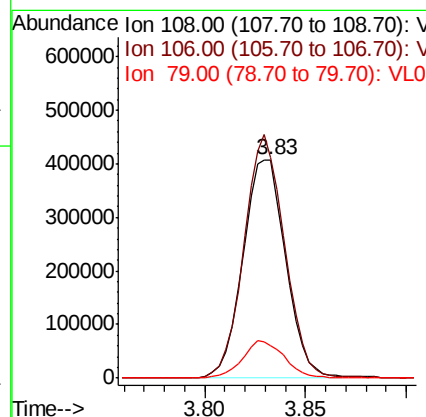
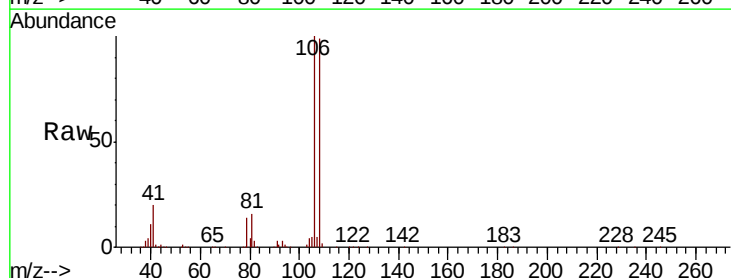
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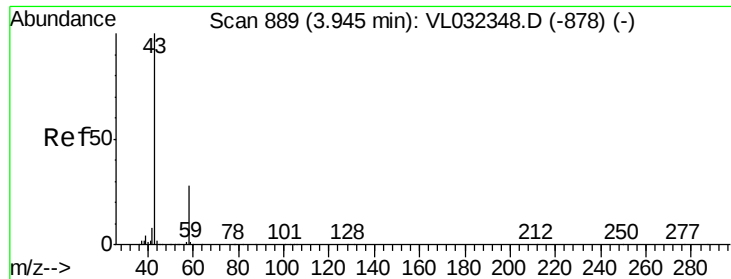
MMDadoda
8/28/2018 2:53:01 PM



#14
Bromoethene
Concen: 10.53 ppbv
RT: 3.83 min Scan# 854
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.9	85.7	128.5
79	17.2	13.1	19.7





#15

Acetone

Concen: 9.24 ppbv

RT: 3.95 min Scan# 889

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1558729

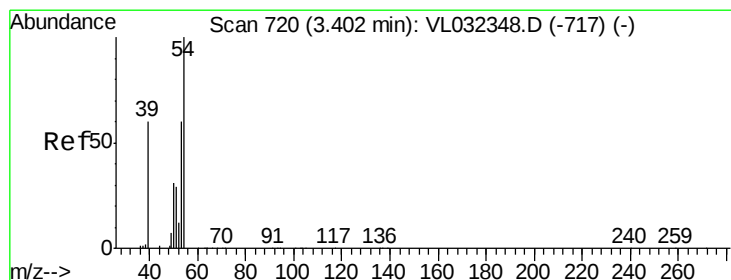
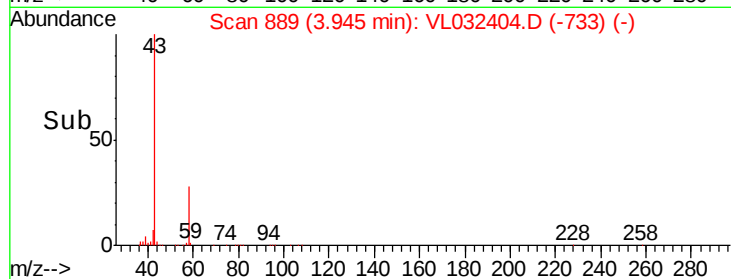
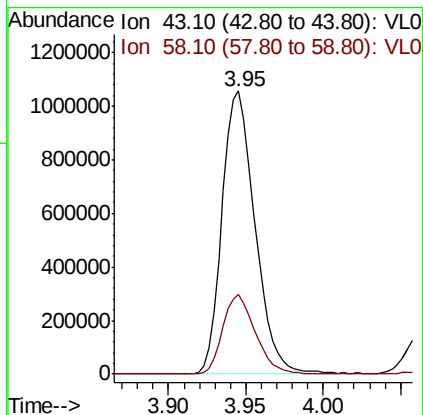
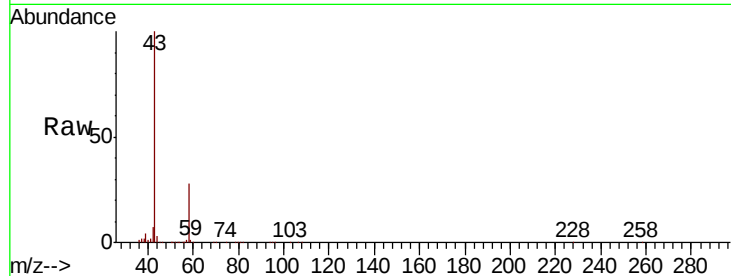
Ion Ratio Lower Upper

43 100

58 27.9 22.4 33.6

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#16

1,3-Butadiene

Concen: 10.89 ppbv

RT: 3.40 min Scan# 720

Delta R.T. 0.00 min

Lab File: VL032404.D

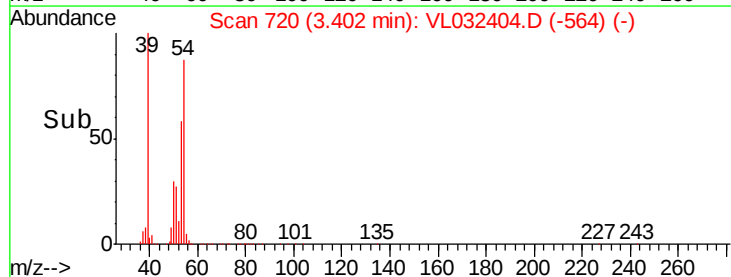
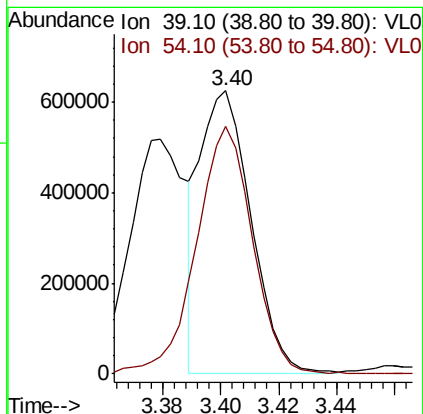
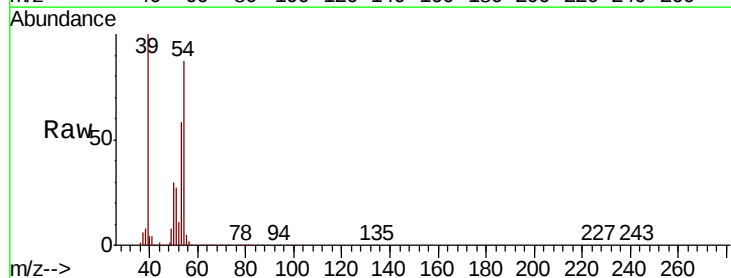
Acq: 17 Aug 2018 12:40

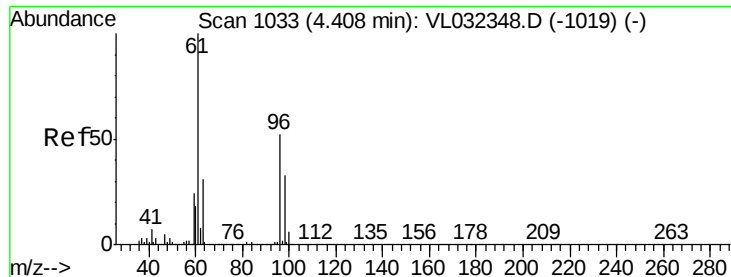
Tgt Ion: 39 Resp: 758059

Ion Ratio Lower Upper

39 100

54 97.9 85.5 128.3





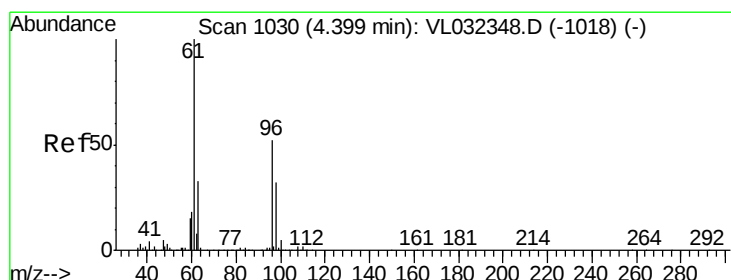
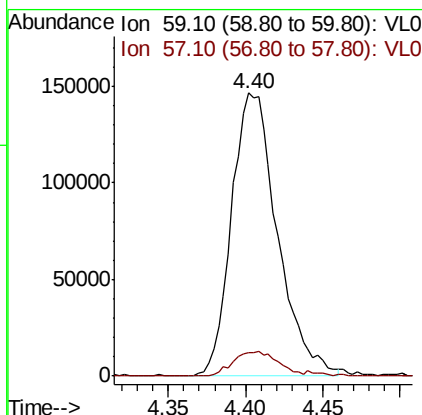
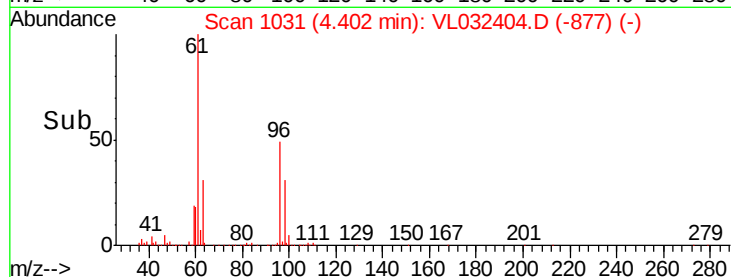
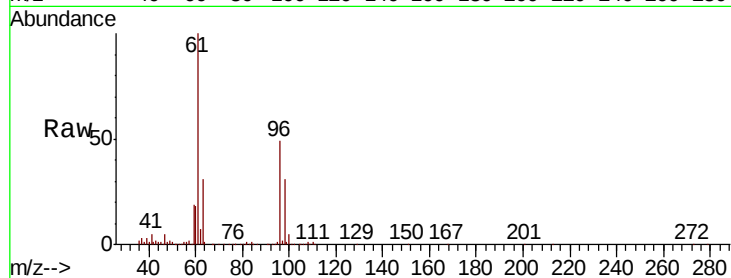
#17
 tert-Butyl alcohol
 Concen: 10.66 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 301649
 Ion Ratio Lower Upper
 59 100
 57 9.4 7.6 11.4

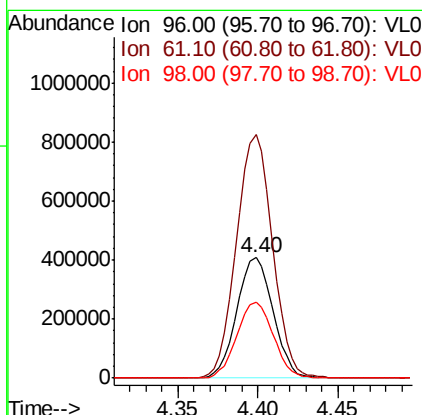
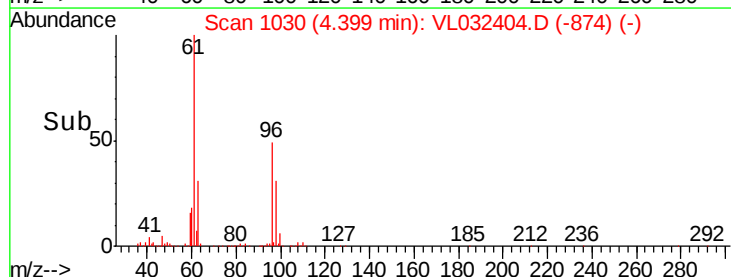
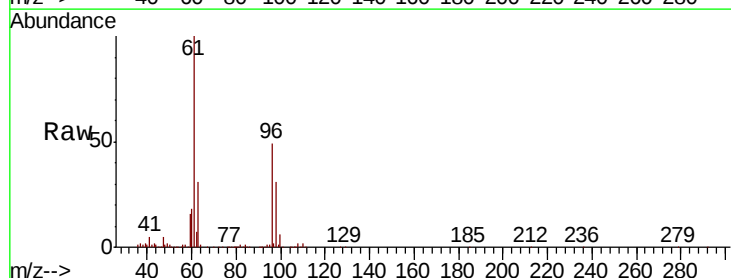
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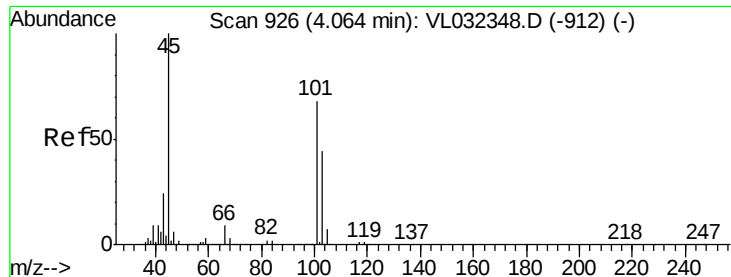
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#18
 1,1-Dichloroethene
 Concen: 10.15 ppbv
 RT: 4.40 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion: 96 Resp: 632372
 Ion Ratio Lower Upper
 96 100
 61 202.1 154.6 231.8
 98 63.4 50.1 75.1





#19

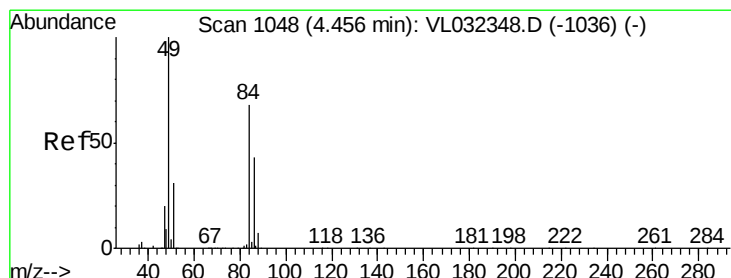
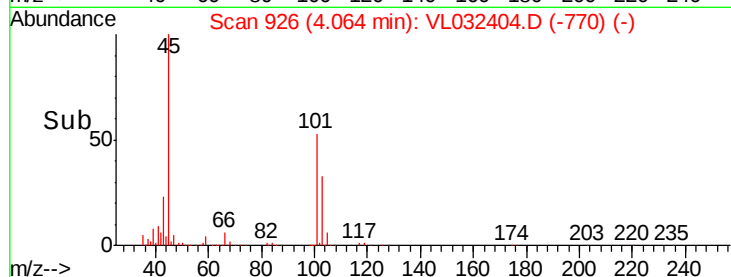
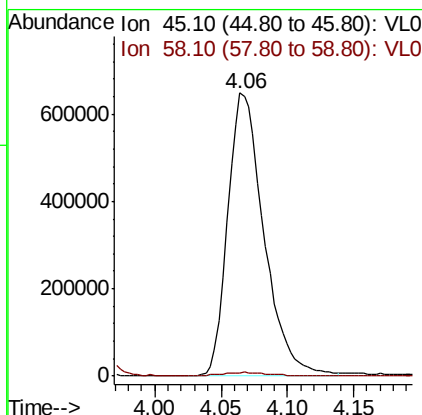
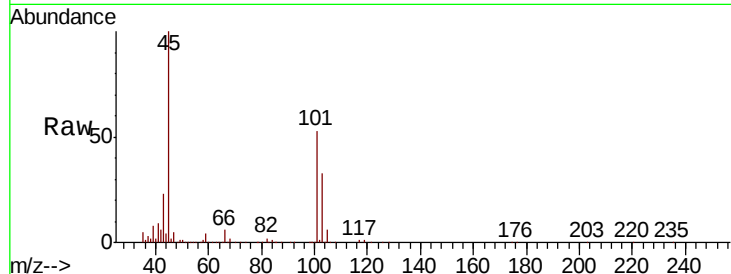
Isopropyl Alcohol
 Concen: 10.80 ppbv
 RT: 4.06 min Scan# 926
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 45 Resp: 1226136
 Ion Ratio Lower Upper
 45 100
 58 1.7 1.4 2.0

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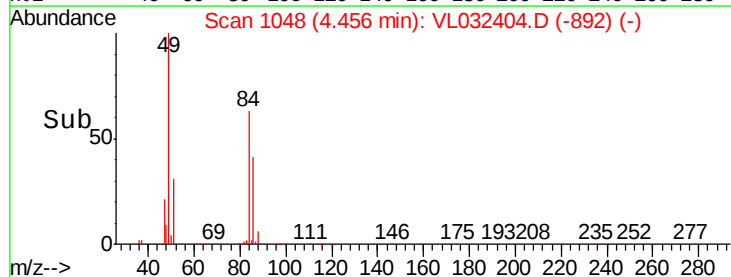
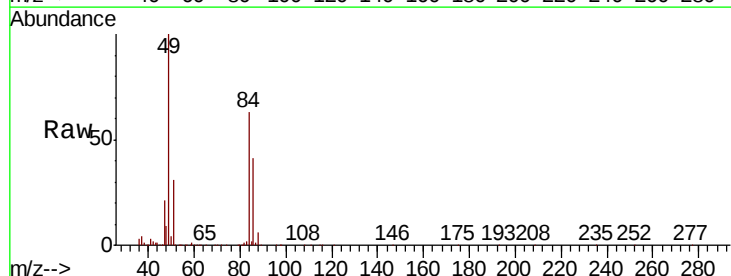
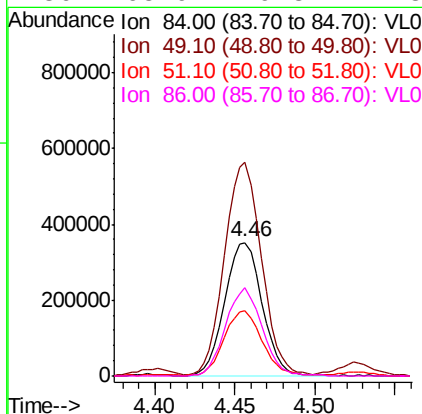
MMDadoda
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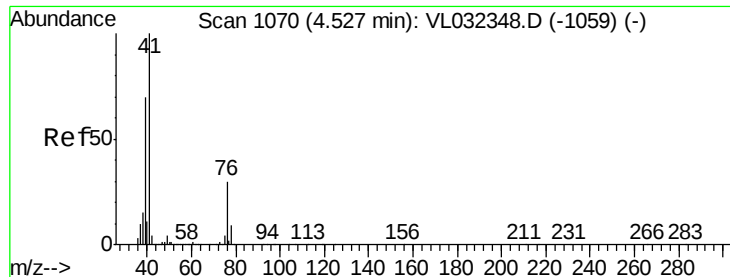


#20

Methylene Chloride
 Concen: 8.74 ppbv
 RT: 4.46 min Scan# 1048
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion: 84 Resp: 556960
 Ion Ratio Lower Upper
 84 100
 49 159.5 117.3 175.9
 51 48.5 36.6 55.0
 86 65.9 49.8 74.8





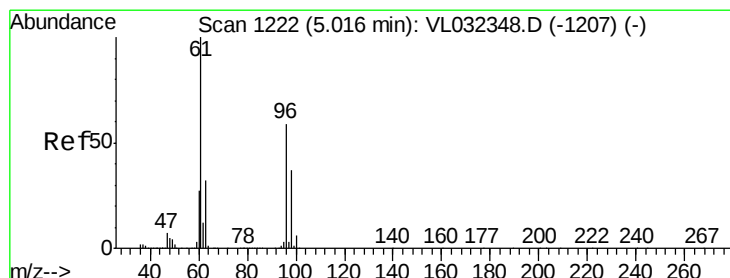
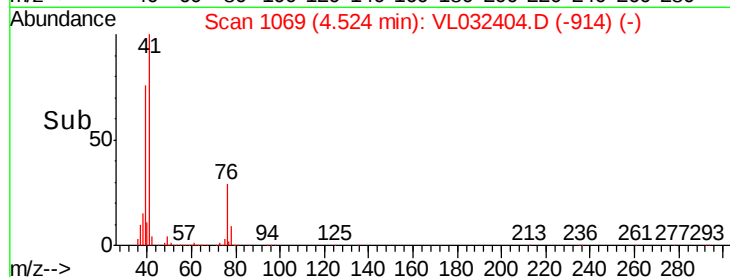
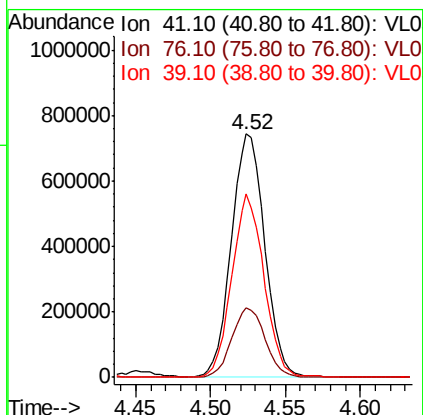
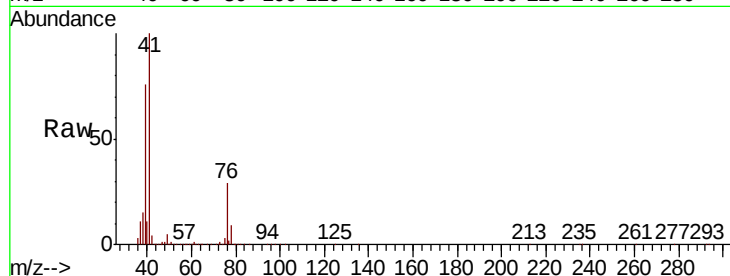
#21
Allvl Chloride
Concen: 10.86 ppbv
RT: 4.52 min Scan# 1069
Delta R.T. -0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.5	22.9	34.3
39	72.4	57.6	86.4

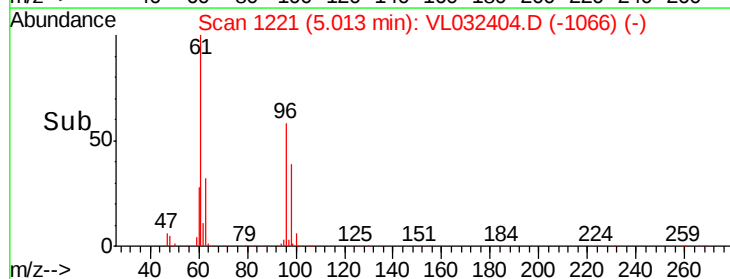
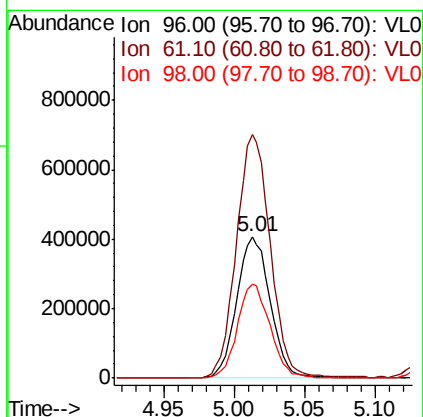
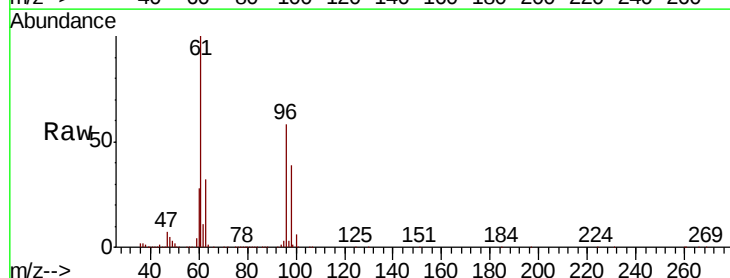
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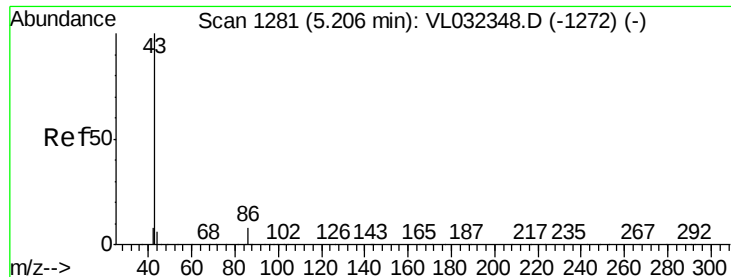
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.81 ppbv
RT: 5.01 min Scan# 1221
Delta R.T. -0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.0	136.6	205.0
98	66.7	50.6	76.0





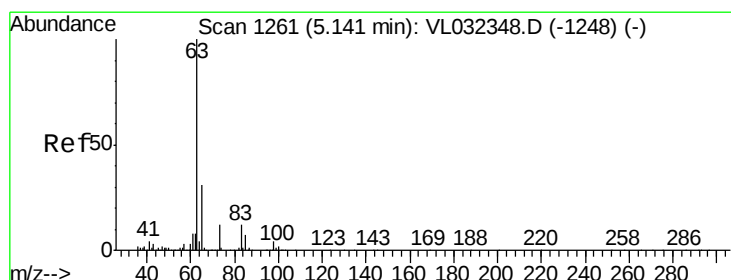
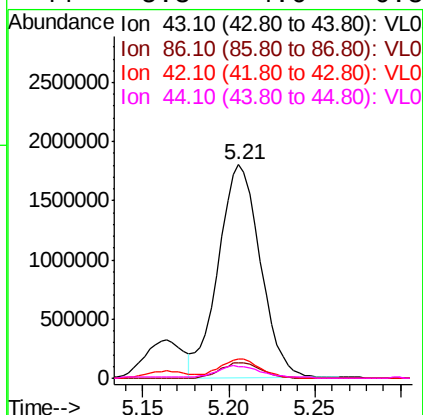
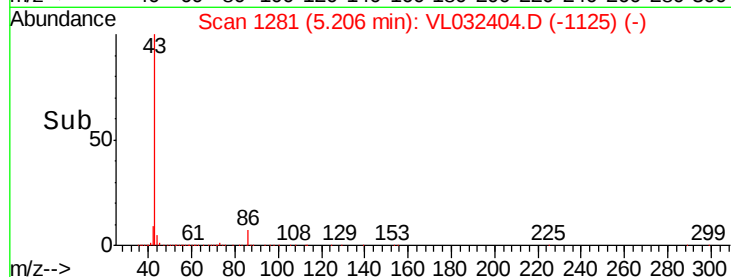
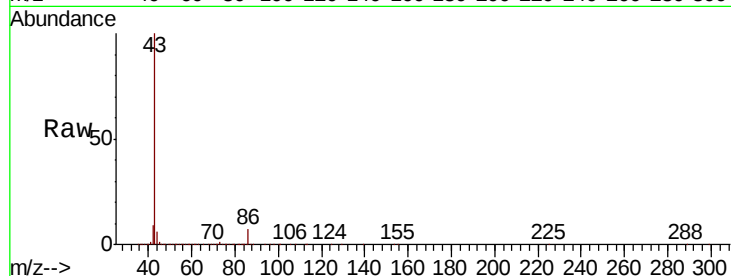
#23
 Vinyl Acetate
 Concen: 10.52 ppbv
 RT: 5.21 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.0	5.5	8.3	
42	8.9	7.0	10.6	
44	5.3	4.6	6.8	

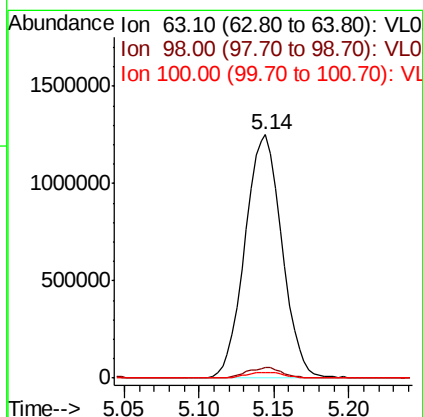
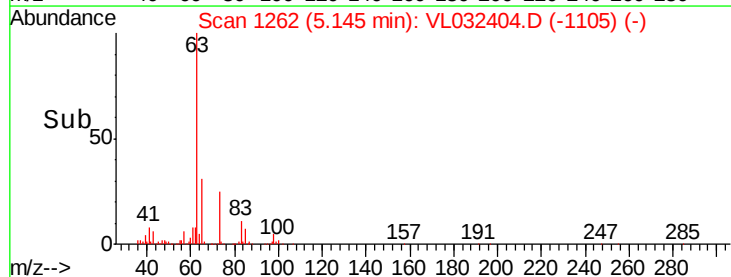
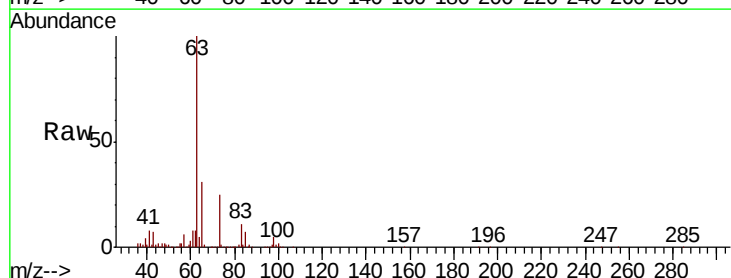
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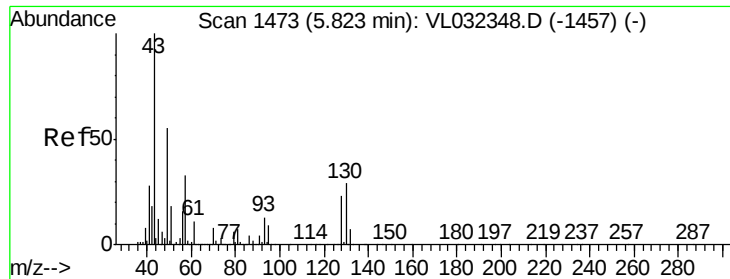
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#24
 1,1-Dichloroethane
 Concen: 10.22 ppbv
 RT: 5.14 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.5	2.1	6.3	
100	2.5	1.2	3.6	





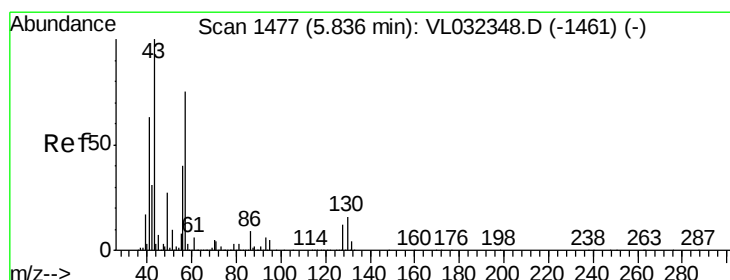
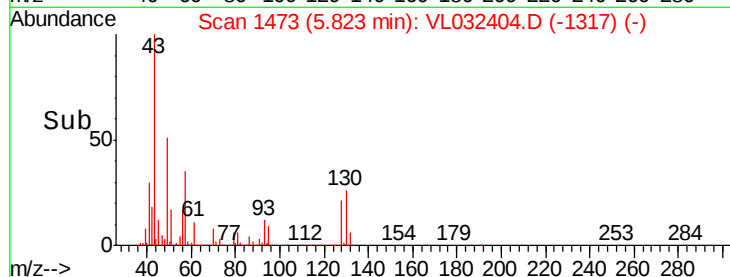
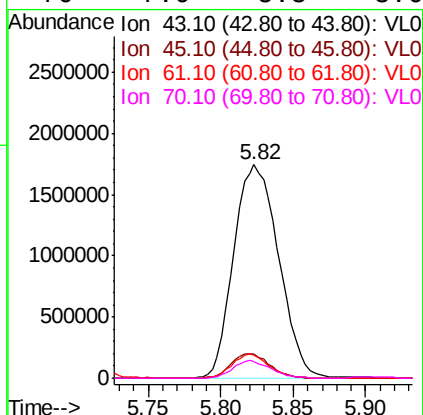
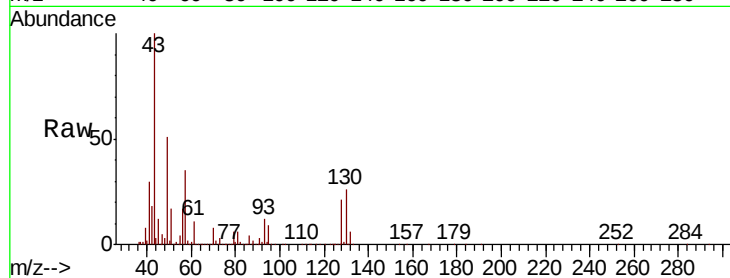
#25
Ethyl Acetate
Concen: 10.40 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.1	7.9	11.9	
61	9.2	7.4	11.2	
70	7.0	5.8	8.6	

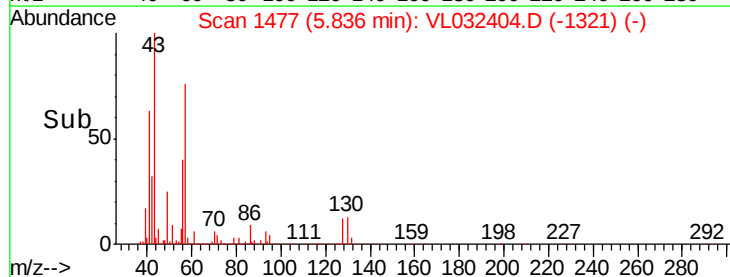
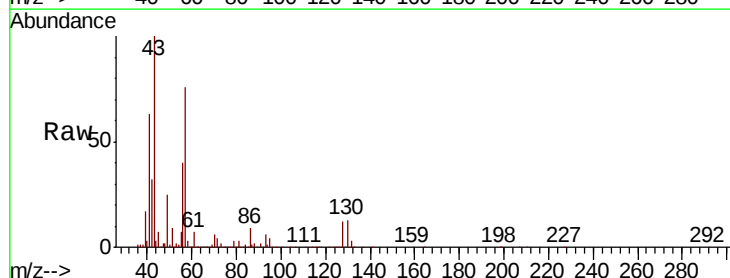
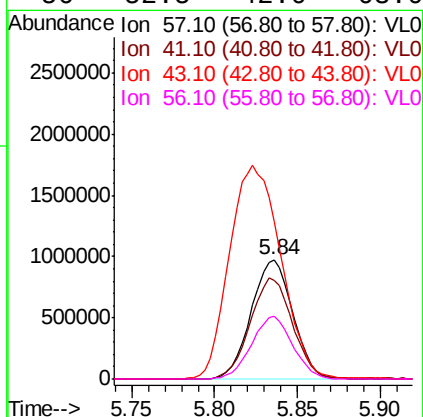
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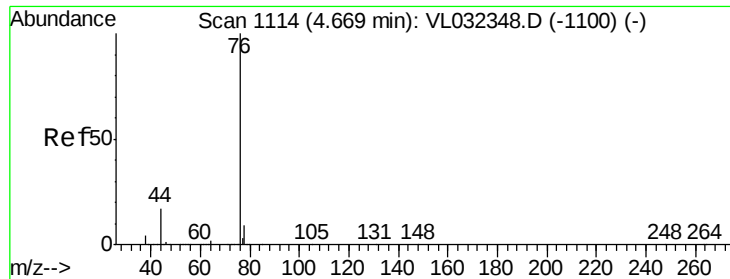
MMDadoda
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#26
Hexane
Concen: 10.56 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	86.3	68.0	102.0	
43	221.9	175.3	262.9	
56	52.5	42.0	63.0	





#27

Carbon Disulfide

Concen: 10.92 ppbv

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

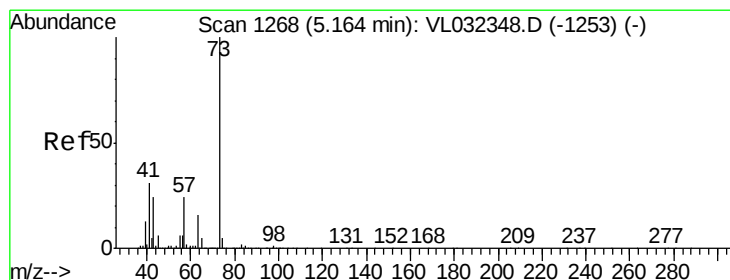
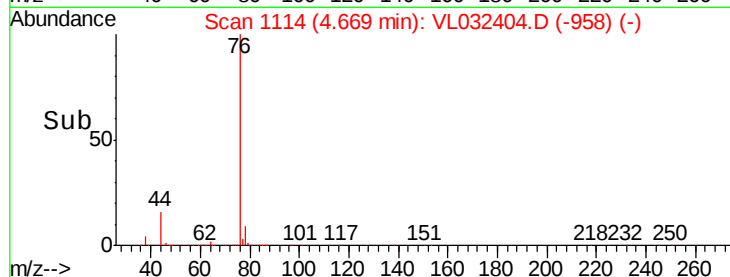
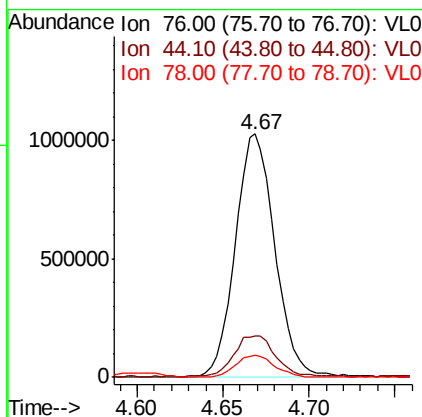
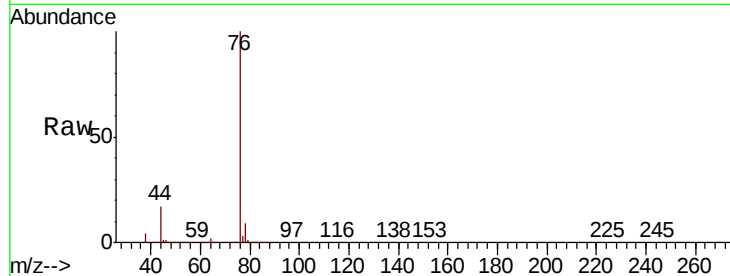
ClientSampleId :

VSTDCCC010EC

Tot Ion:	76	Resp:	1642134
Ion	Ratio	Lower	Upper
76	100		
44	17.8	14.4	21.6
78	9.1	7.4	11.0

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#28

Methyl tert-Butyl Ether

Concen: 11.06 ppbv

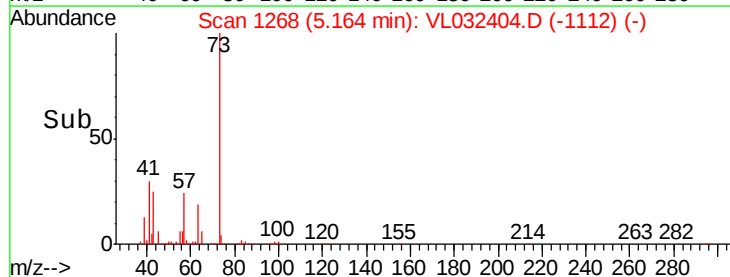
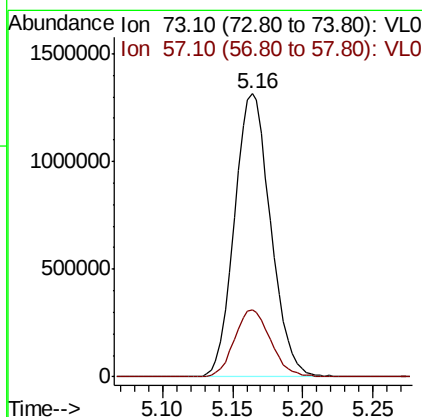
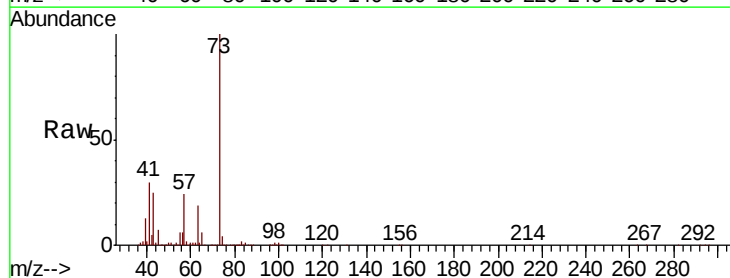
RT: 5.16 min Scan# 1268

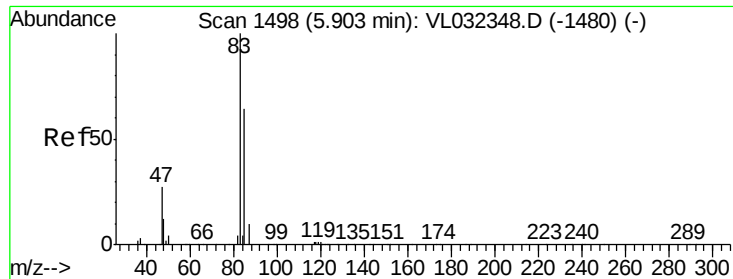
Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Tgt Ion:	73	Resp:	2364548
Ion	Ratio	Lower	Upper
73	100		
57	23.9	19.3	28.9





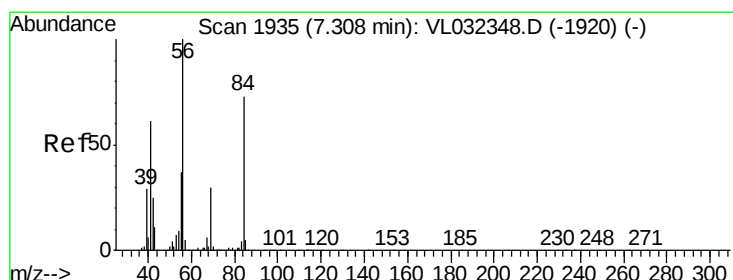
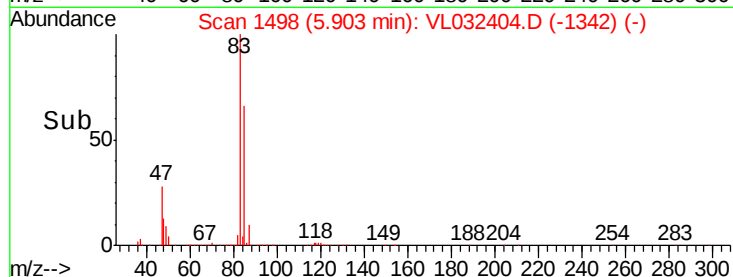
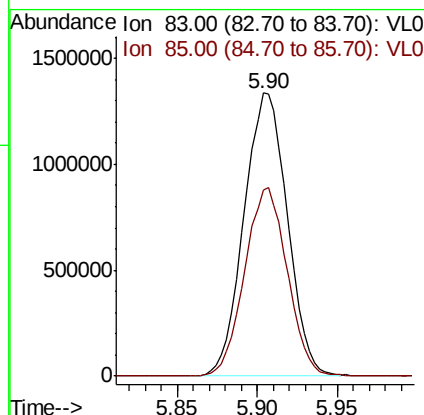
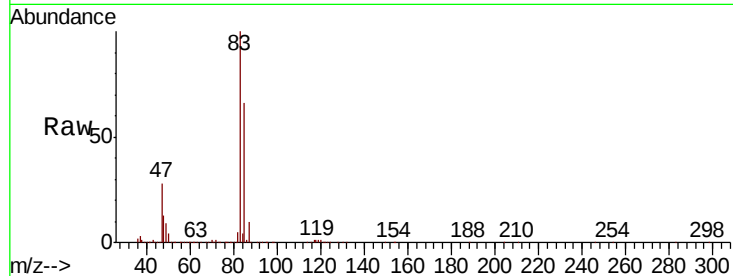
#29
Chloroform
Concen: 10.48 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2474293
Ion Ratio Lower Upper
83 100
85 65.7 51.6 77.4

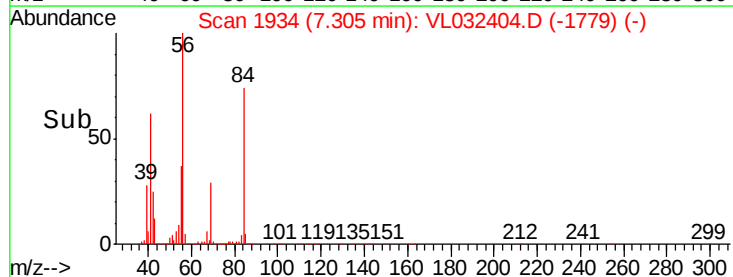
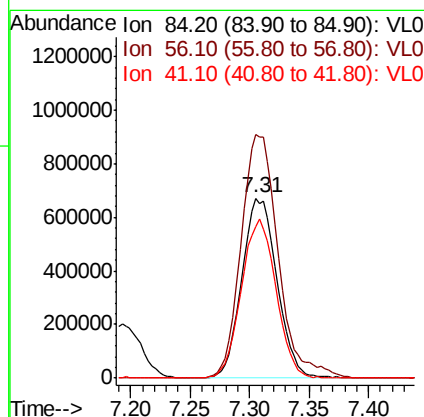
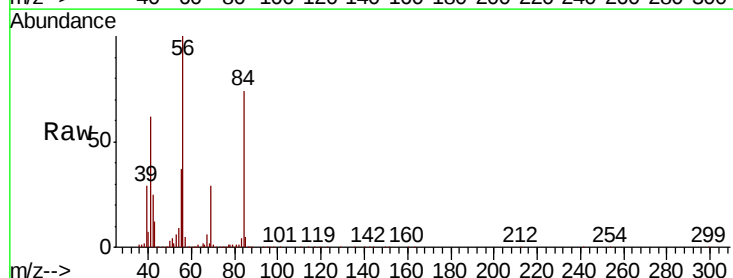
Manual Integrations
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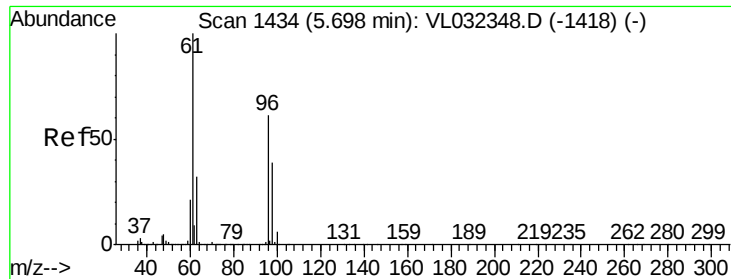
MMDadoda
8/28/2018 2:53:01 PM



#30
Cyclohexane
Concen: 11.20 ppbv
RT: 7.31 min Scan# 1934
Delta R.T. -0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion: 84 Resp: 1374287
Ion Ratio Lower Upper
84 100
56 143.2 115.7 173.5
41 87.0 67.9 101.9





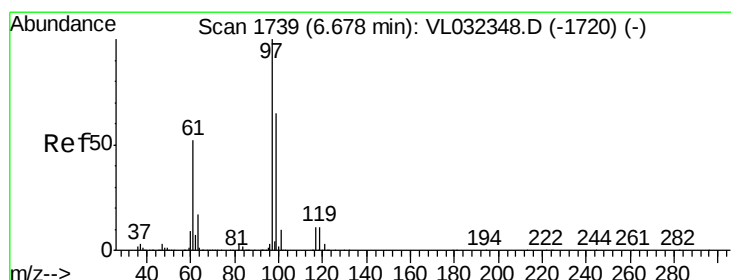
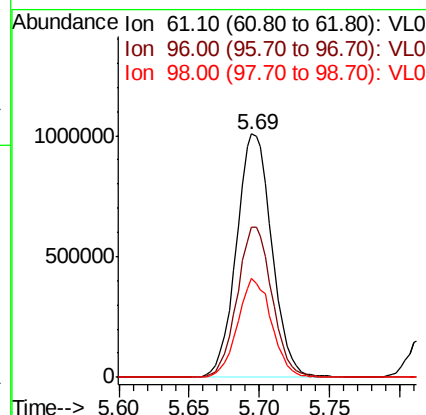
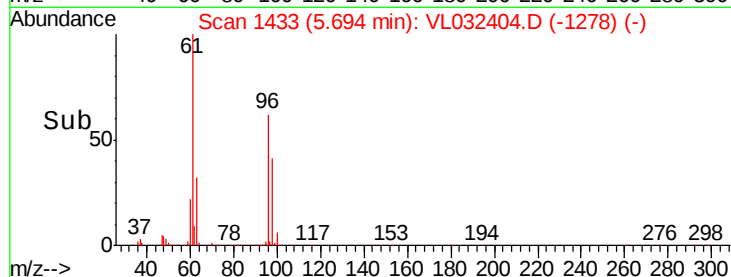
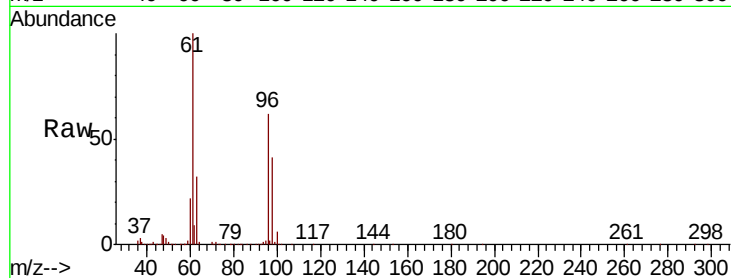
#31
 cis-1,2-Dichloroethene
 Concen: 11.22 ppbv
 RT: 5.69 min Scan# 1433
 Delta R.T. -0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.5	48.5	72.7
98	40.6	31.0	46.4

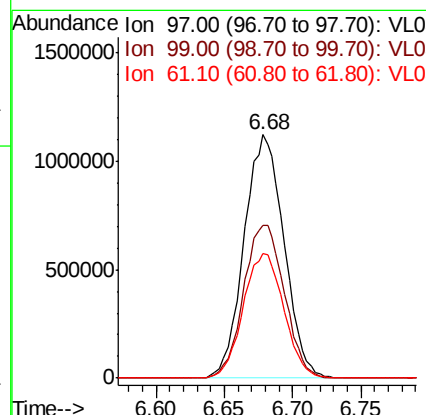
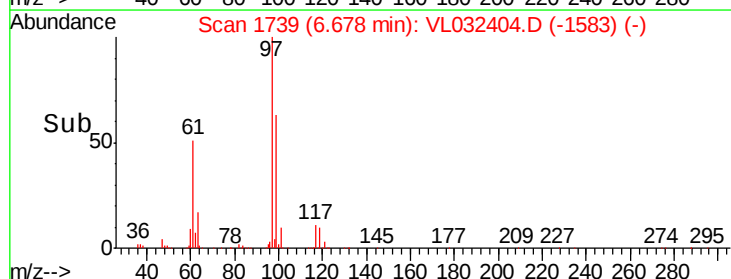
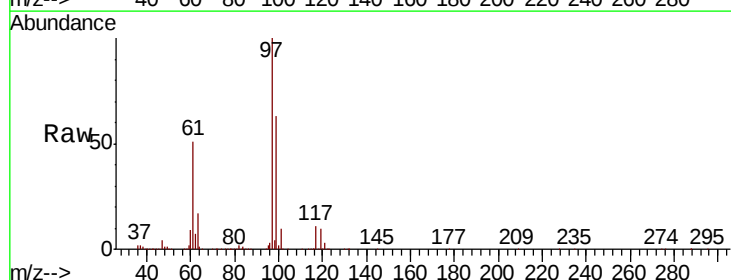
Manual Integrations
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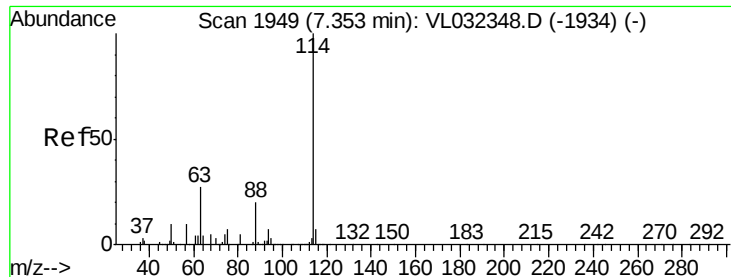
MMDadoda
 8/28/2018 2:53:01 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.90 ppbv
 RT: 6.68 min Scan# 1739
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.1	76.7
61	52.1	41.1	61.7





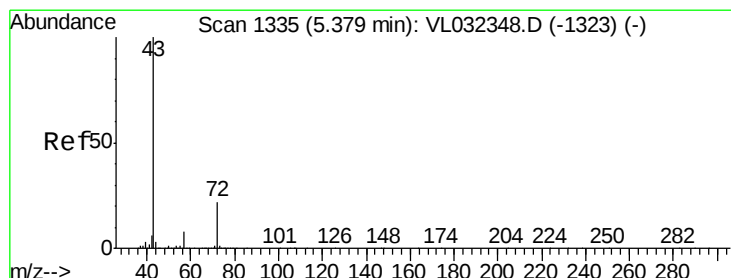
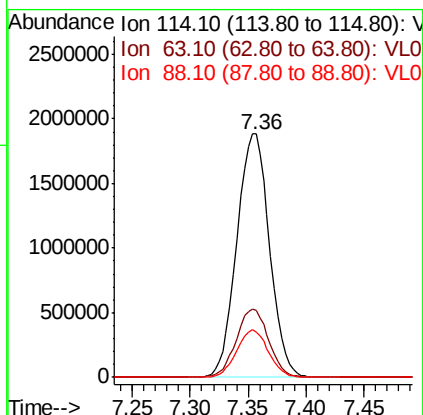
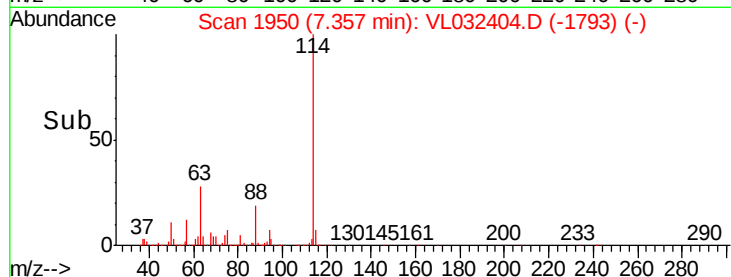
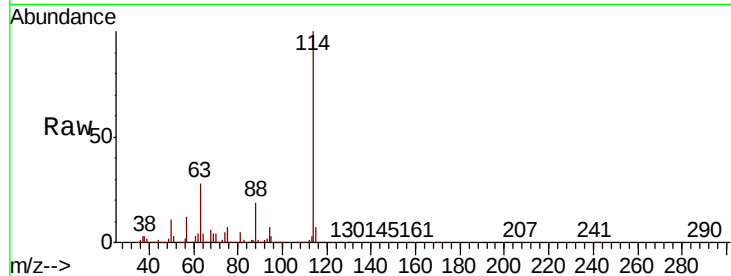
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.36 min Scan# 1950
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.0	33.0
88	18.9	15.3	22.9

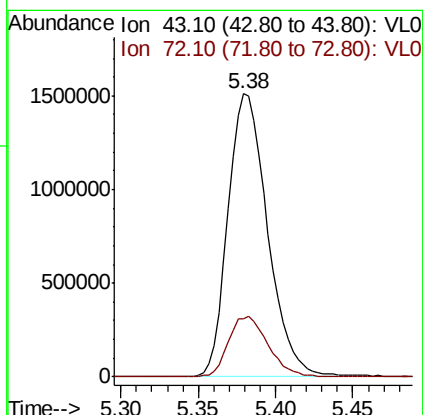
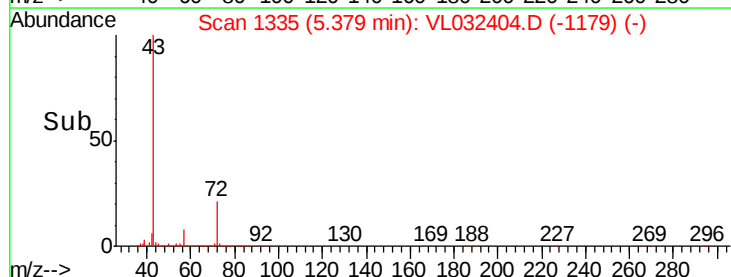
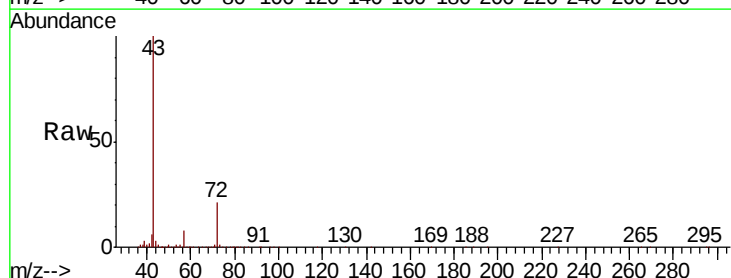
Manual Integrations
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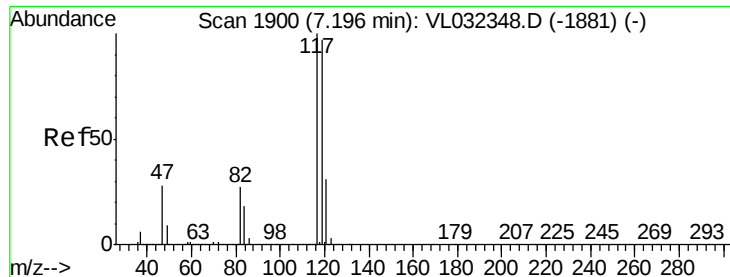
MMDadoda
 8/28/2018 2:53:01 PM



#34
 2-Butanone
 Concen: 10.65 ppbv
 RT: 5.38 min Scan# 1335
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.9	26.9





#35

Carbon Tetrachloride

Concen: 10.90 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

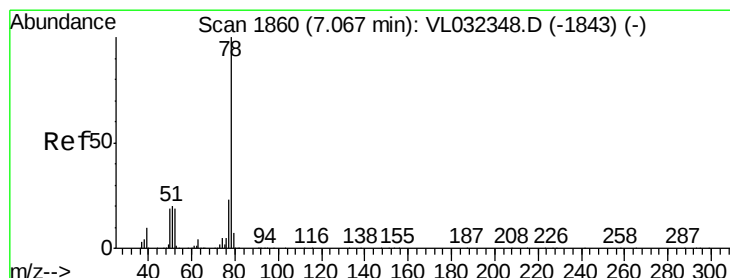
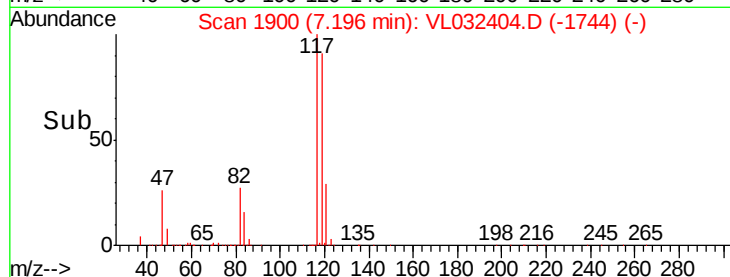
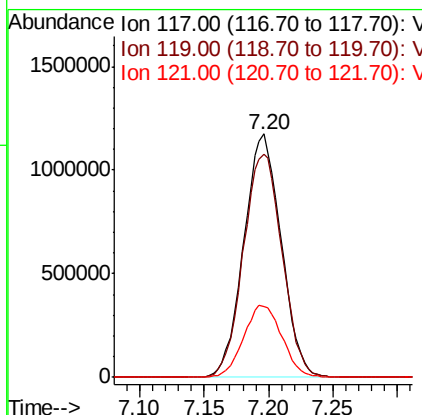
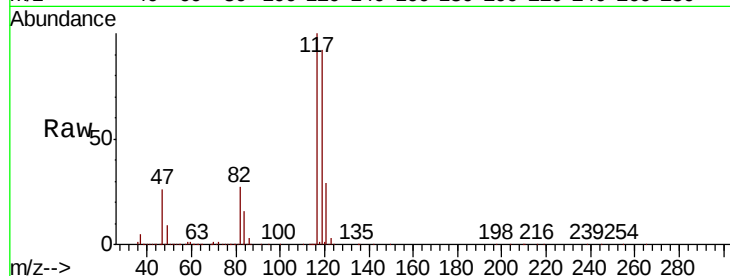
ClientSampleId :

VSTDCCC010EC

Tot Ion:	117	Resp:	2369705
Ion	Ratio	Lower	Upper
117	100		
119	91.6	77.2	115.8
121	29.3	25.1	37.7

Manual Integrations
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8/28/2018 2:53:01 PM



#36

Benzene

Concen: 10.85 ppbv

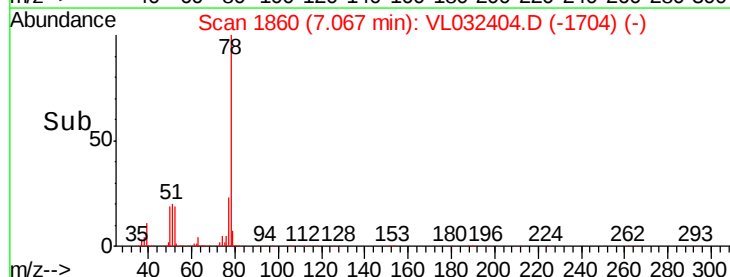
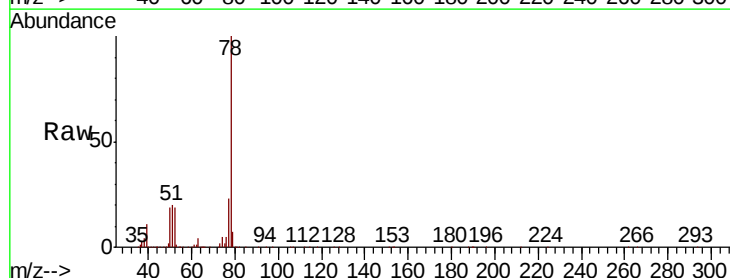
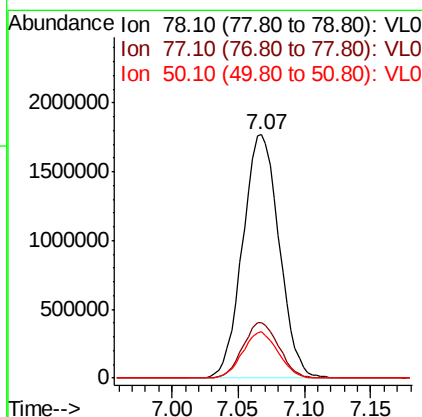
RT: 7.07 min Scan# 1860

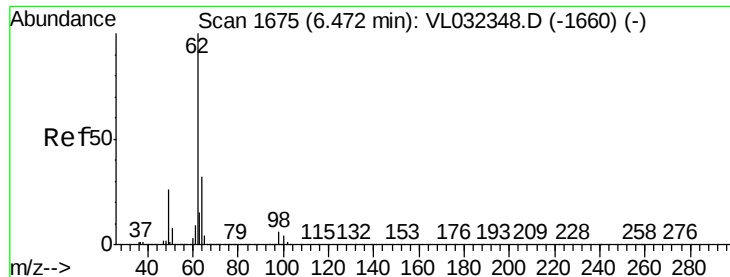
Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Tgt Ion:	78	Resp:	3390910
Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.0	27.0
50	18.8	15.1	22.7





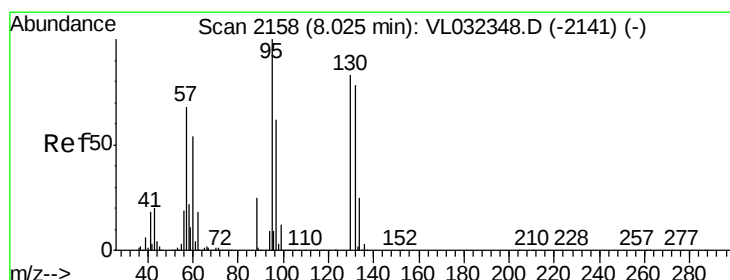
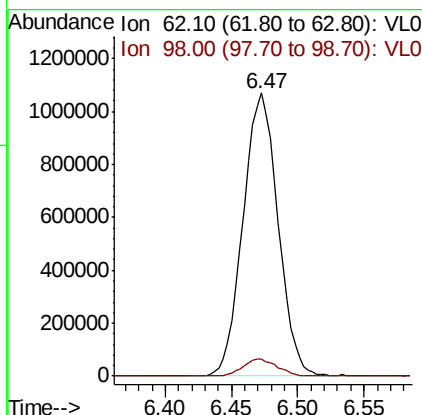
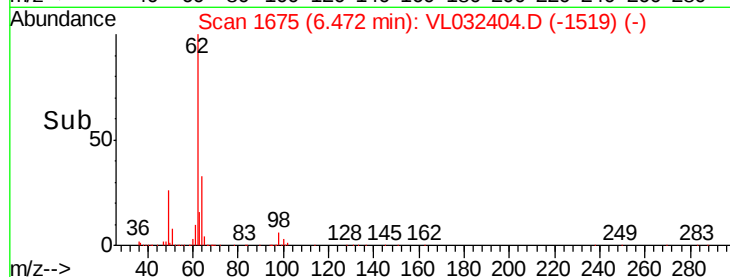
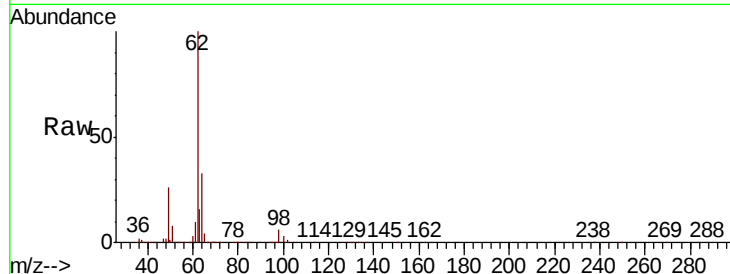
#37
 1,2-Dichloroethane
 Concen: 10.35 ppbv
 RT: 6.47 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.0	5.0	7.6

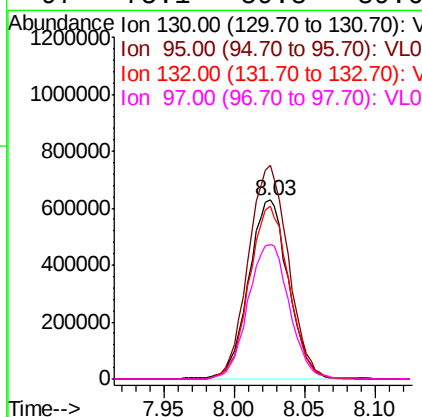
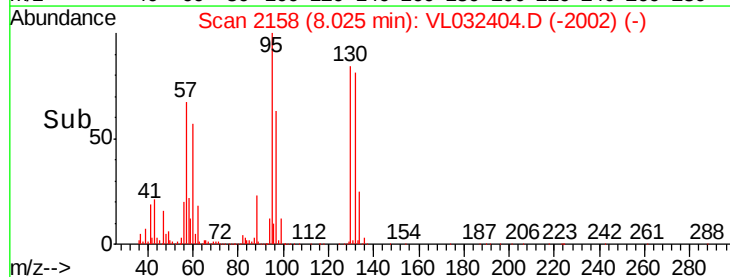
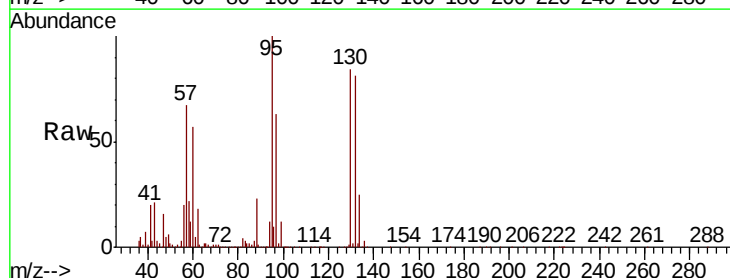
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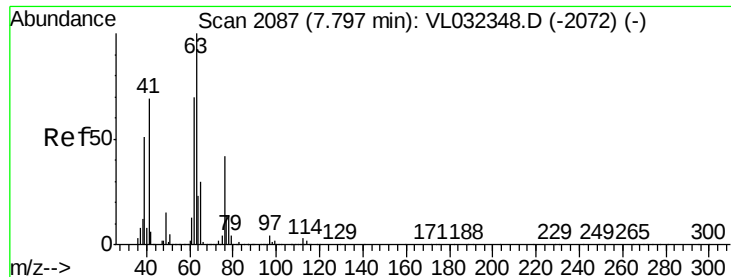
MMDadoda
 8/28/2018 2:53:01 PM



#38
 Trichloroethene
 Concen: 11.17 ppbv
 RT: 8.03 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
130	100		
95	119.6	96.6	144.8
132	96.5	75.5	113.3
97	75.1	59.8	89.6





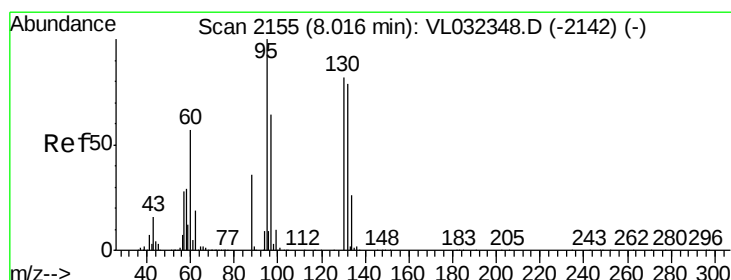
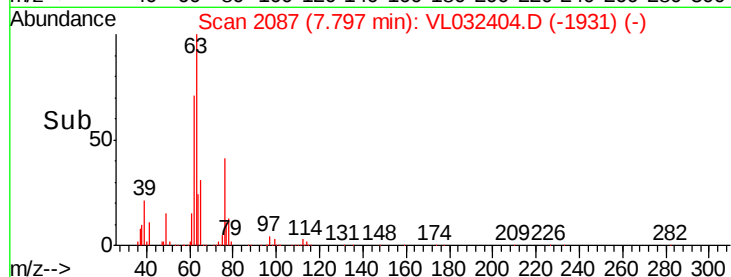
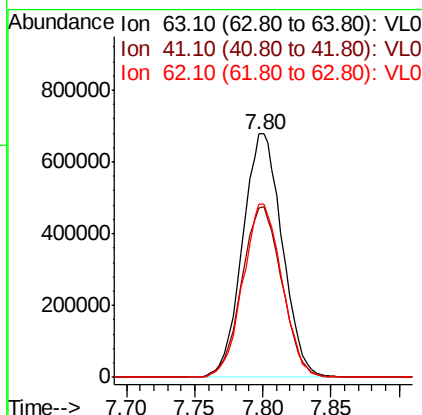
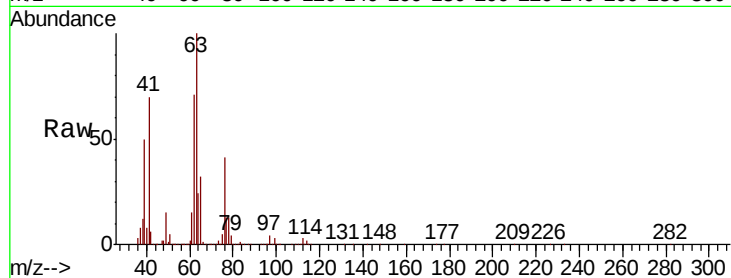
#39
 1,2-Dichloropropane
 Concen: 10.50 ppbv
 RT: 7.80 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	69.4	55.5	83.3
62	71.1	56.3	84.5

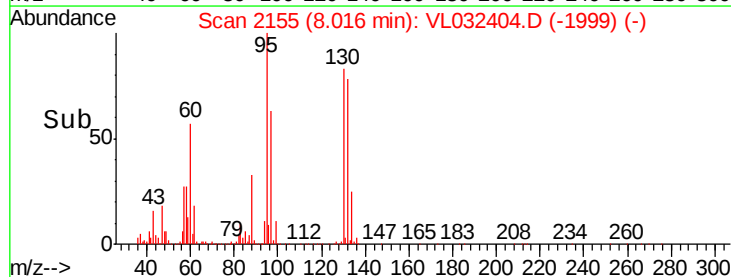
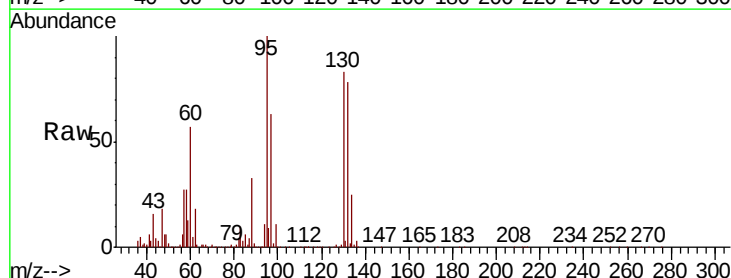
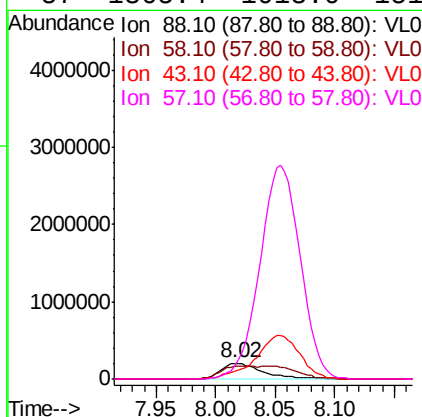
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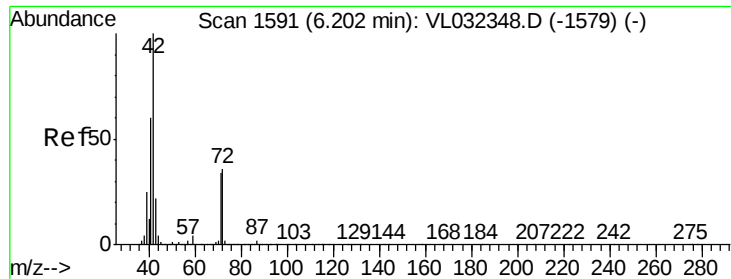
MMDadoda
 8/28/2018 2:53:01 PM



#40
 1,4-Dioxane
 Concen: 12.07 ppbv
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	145.8	113.7	170.5
43	302.6	224.0	336.0
57	1365.4	1013.0	1519.6





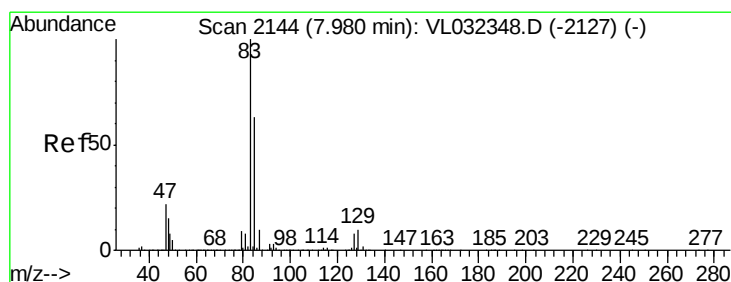
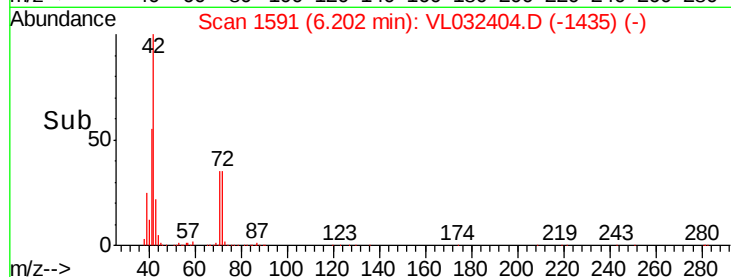
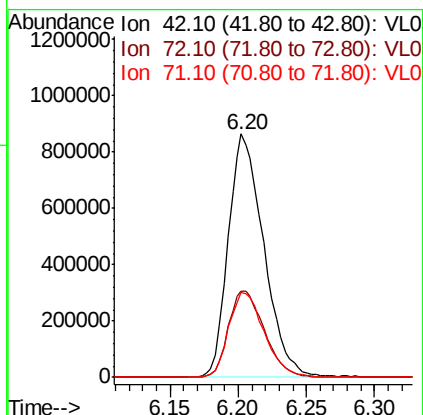
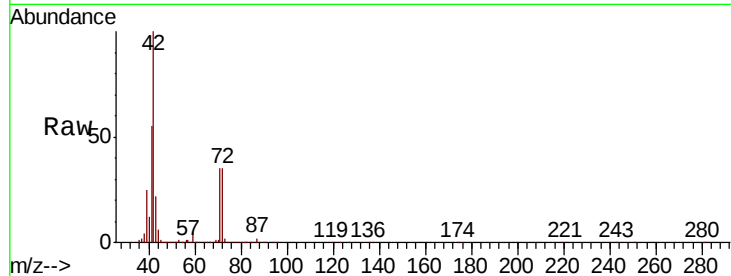
#41
Tetrahydrofuran
Concen: 11.56 ppbv
RT: 6.20 min Scan# 1591
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 42 Resp: 1557042
Ion Ratio Lower Upper
42 100
72 36.5 29.8 44.6
71 35.1 28.2 42.2

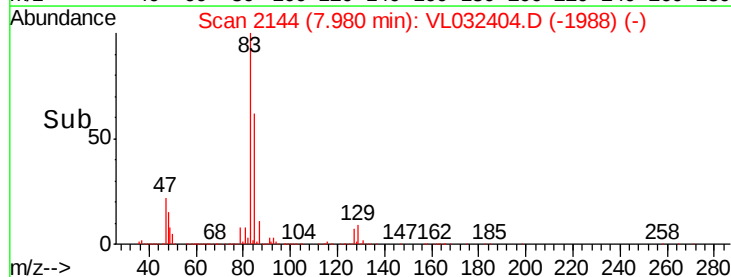
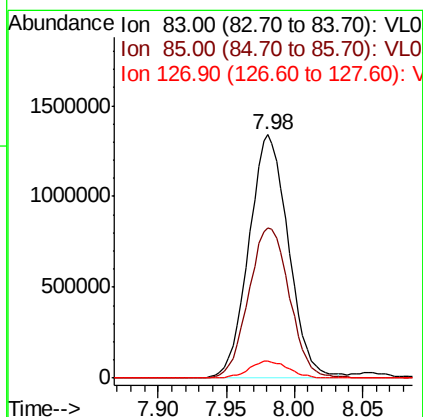
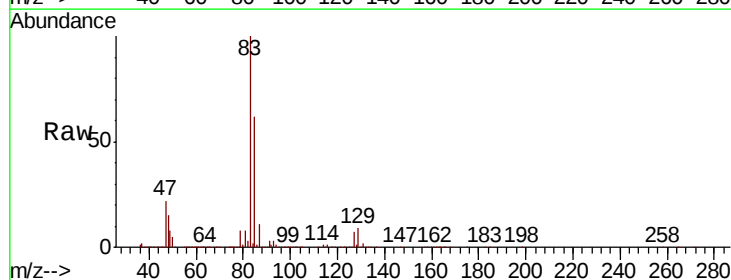
Manual Integrations
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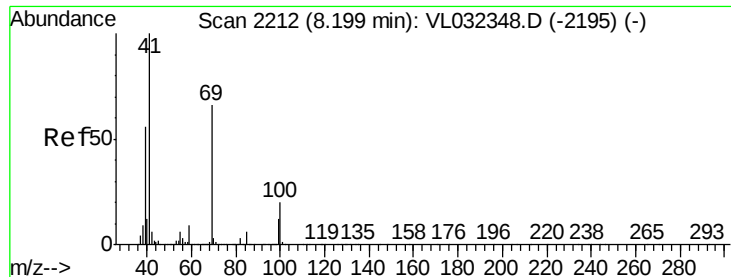
MMDadoda
8/28/2018 2:53:01 PM



#42
Bromodichloromethane
Concen: 10.84 ppbv
RT: 7.98 min Scan# 2144
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion: 83 Resp: 2692860
Ion Ratio Lower Upper
83 100
85 61.7 50.4 75.6
127 6.8 6.1 9.1





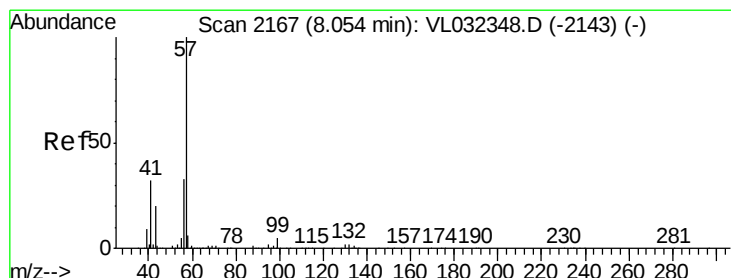
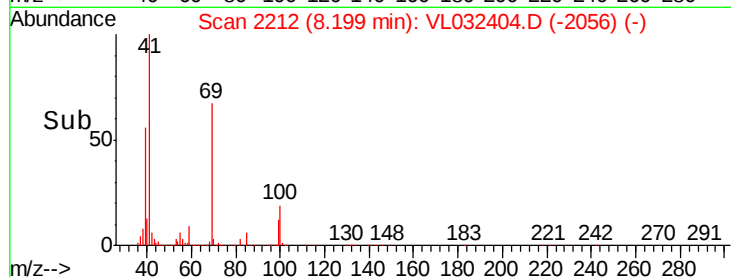
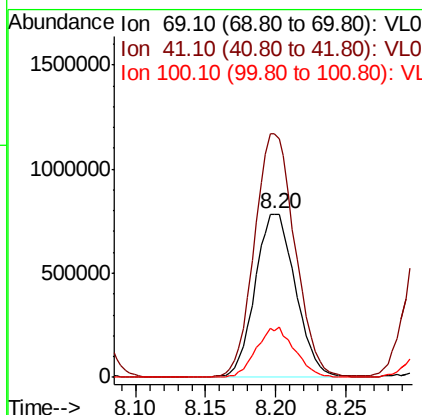
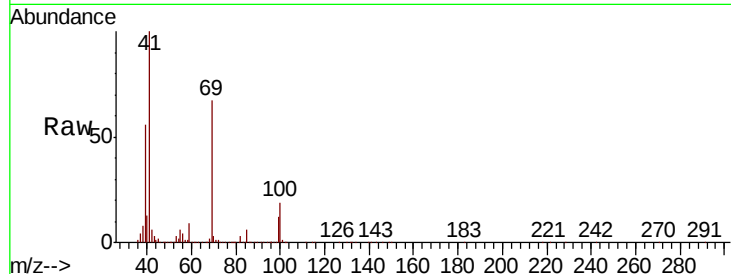
#43
Methvl Methacrvlate
Concen: 12.59 ppbv
RT: 8.20 min Scan# 2212
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1568065
Ion Ratio Lower Upper
69 100
41 149.5 118.6 177.8
100 29.2 23.4 35.2

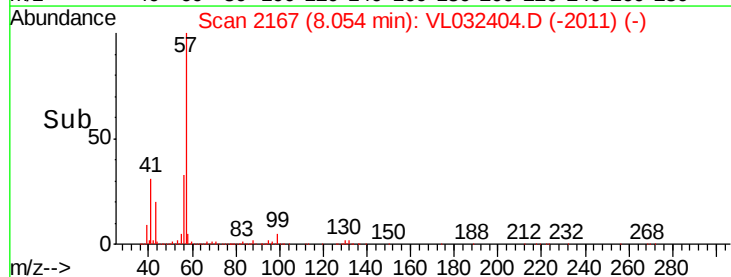
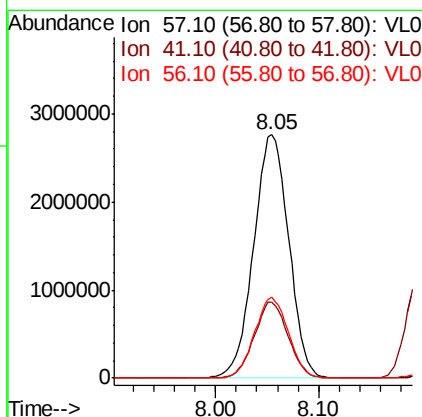
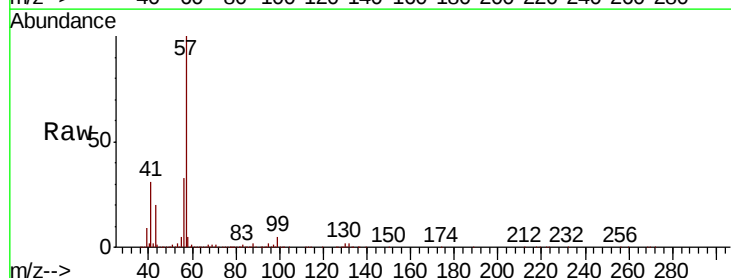
Manual Integrations
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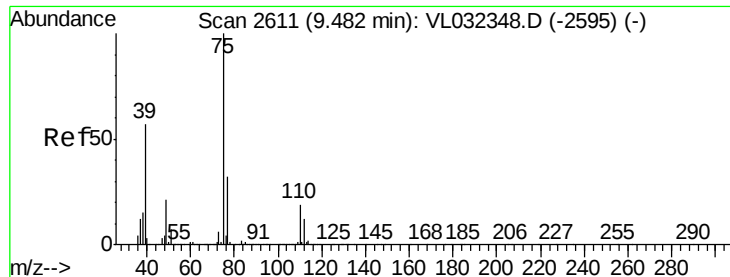
MMDadoda
8/28/2018 2:53:01 PM



#44
2,2,4-Trimethylpentane
Concen: 11.58 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion: 57 Resp: 6528799
Ion Ratio Lower Upper
57 100
41 30.3 24.3 36.5
56 32.0 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 11.74 ppbv

RT: 9.48 min Scan# 2610

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1849975

Ion Ratio Lower Upper

75 100

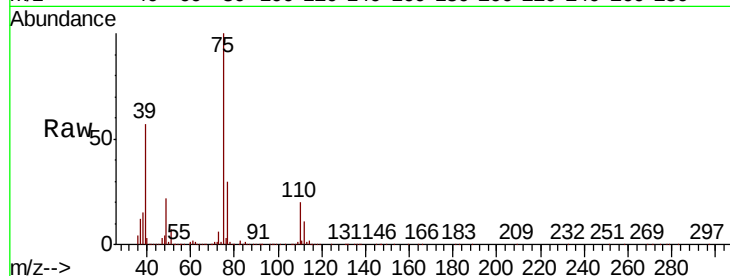
77 29.8 25.4 38.2

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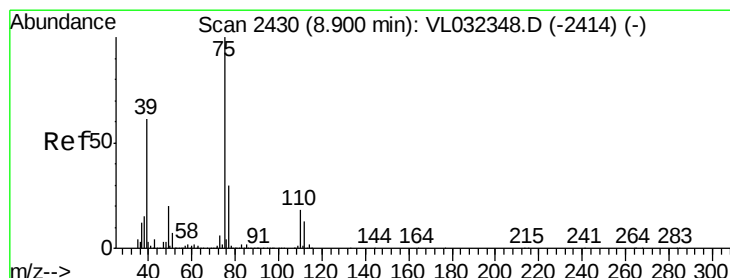
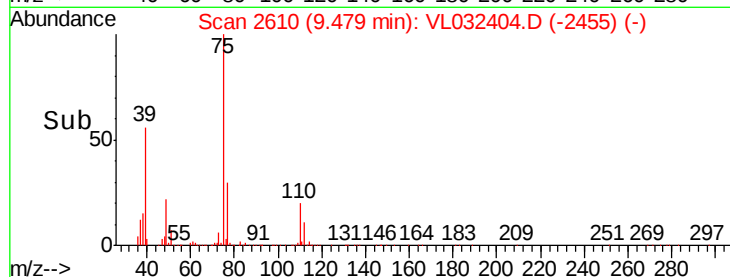
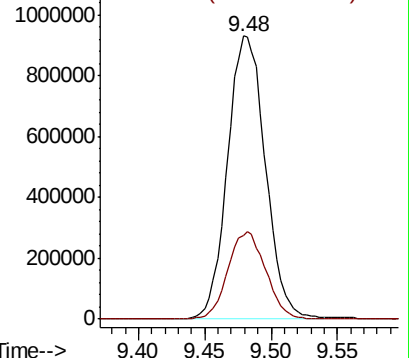
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 12.17 ppbv

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

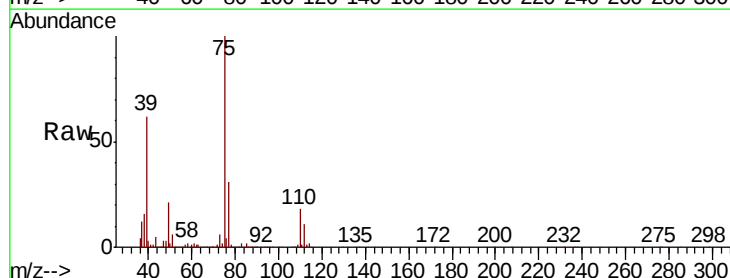
Tgt Ion: 75 Resp: 2299237

Ion Ratio Lower Upper

75 100

39 61.9 48.5 72.7

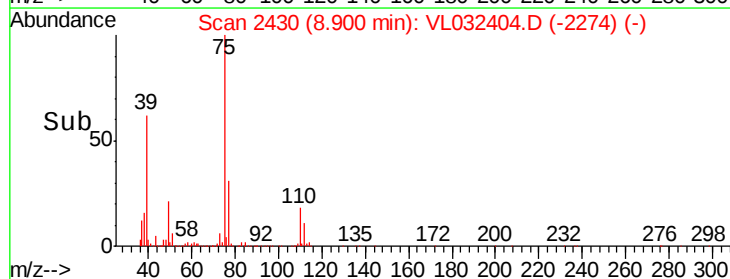
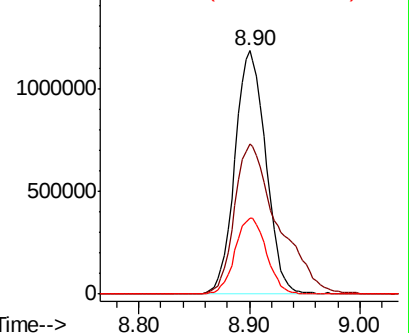
77 31.3 24.3 36.5

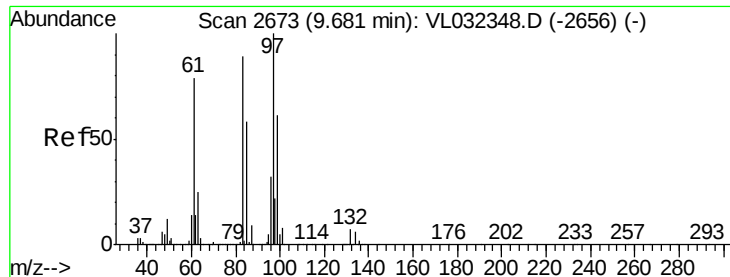


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 9.13 ppbv

RT: 9.68 min Scan# 2673

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1311565

Ion Ratio Lower Upper

97 100

83 95.3 71.2 106.8

85 59.0 46.6 69.8

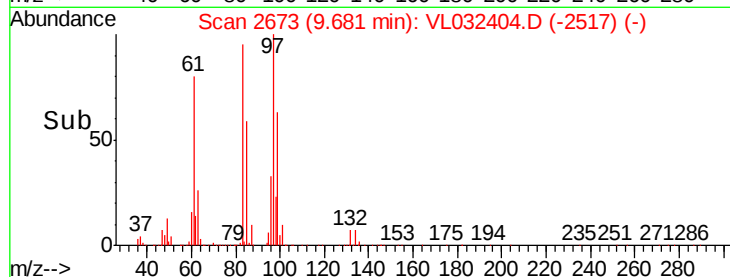
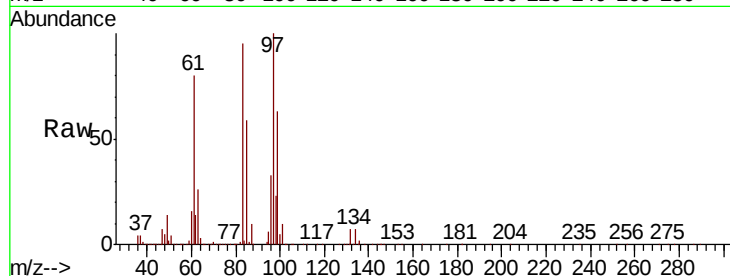
99 63.0 49.2 73.8

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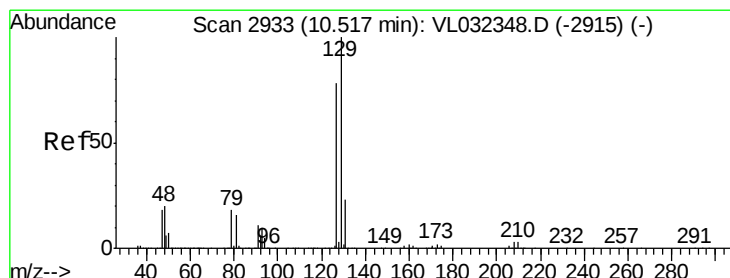
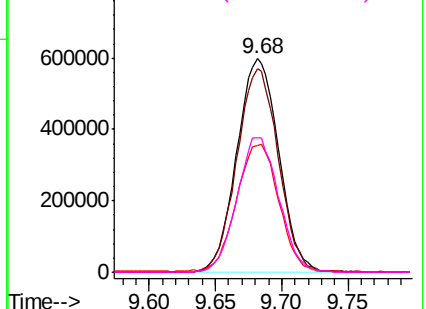


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.68 ppbv

RT: 10.52 min Scan# 2934

Delta R.T. 0.00 min

Lab File: VL032404.D

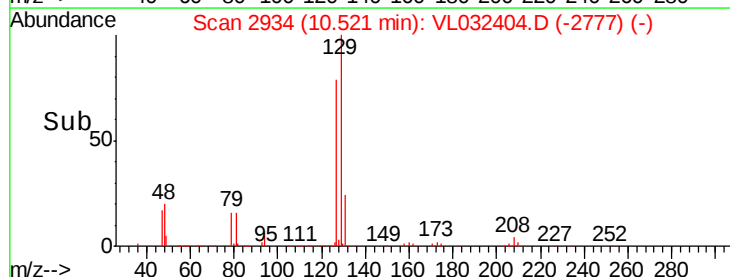
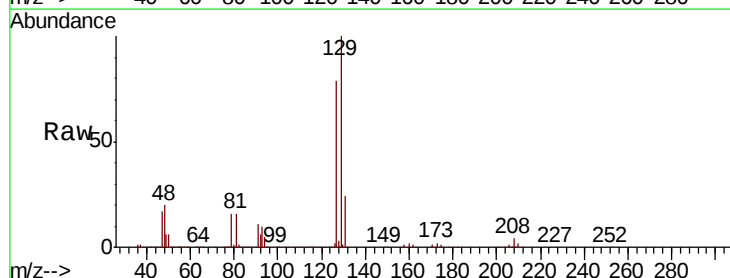
Acq: 17 Aug 2018 12:40

Tgt Ion: 129 Resp: 2052170

Ion Ratio Lower Upper

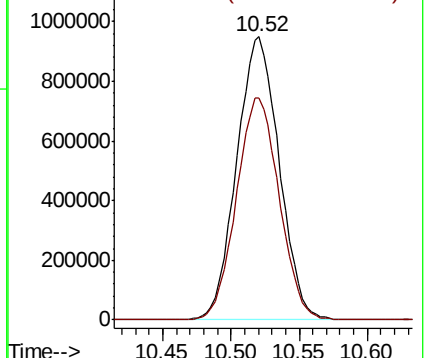
129 100

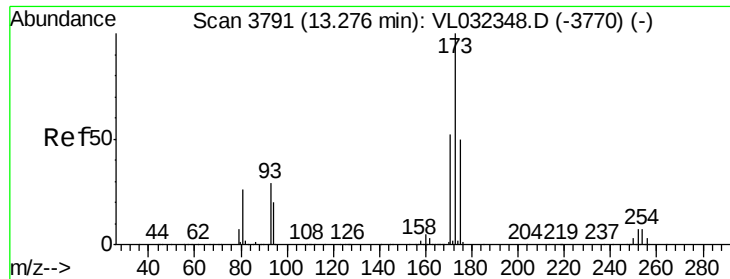
127 79.2 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.86 ppbv

RT: 13.27 min Scan# 3790

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1732304

Ion Ratio Lower Upper

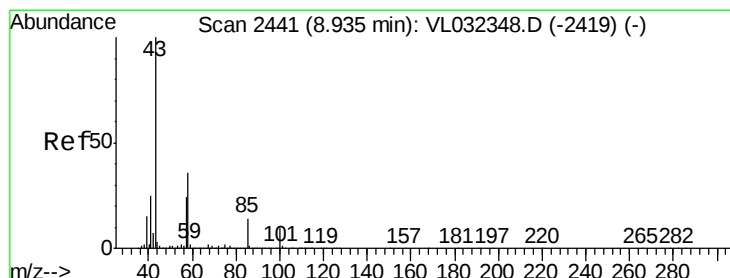
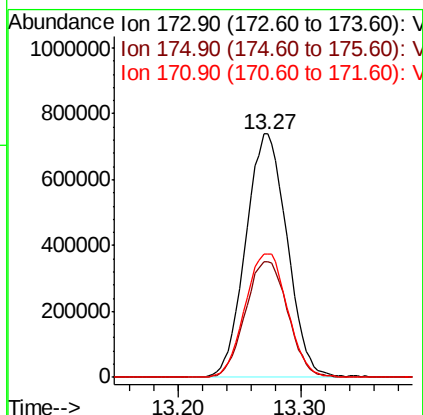
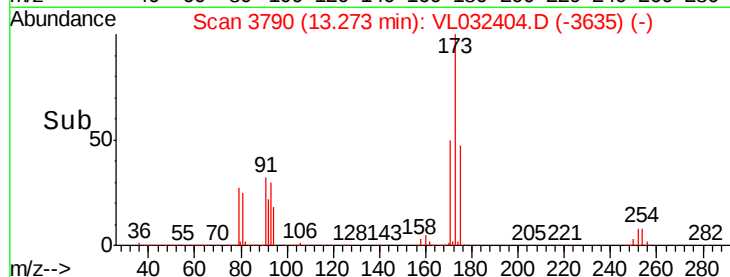
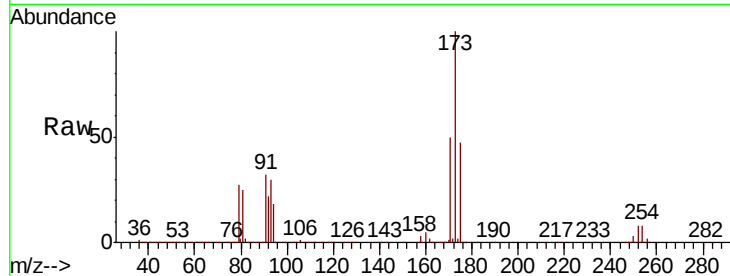
173 100

175 48.9 39.3 58.9

171 52.3 41.9 62.9

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#50

4-Methyl-2-Pentanone

Concen: 11.01 ppbv

RT: 8.93 min Scan# 2440

Delta R.T. -0.00 min

Lab File: VL032404.D

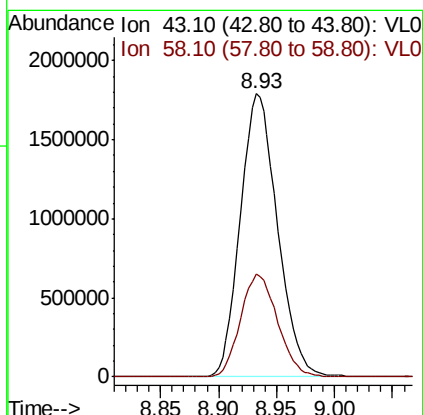
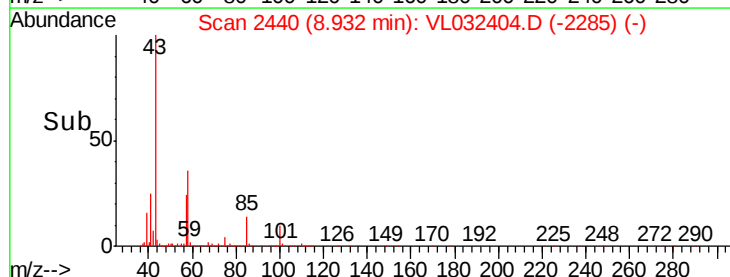
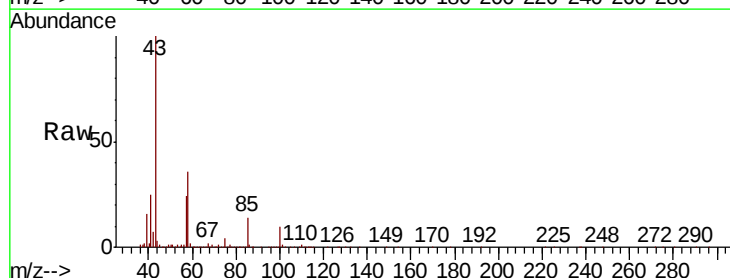
Acq: 17 Aug 2018 12:40

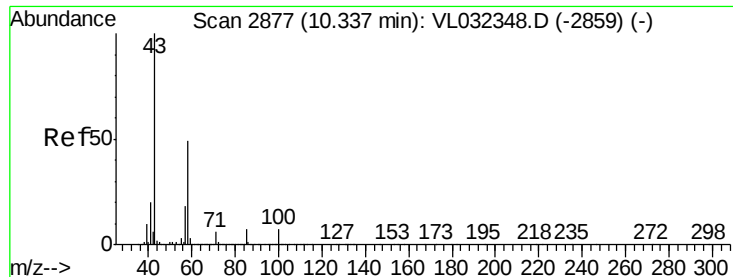
Tgt Ion: 43 Resp: 3990834

Ion Ratio Lower Upper

43 100

58 36.2 28.9 43.3





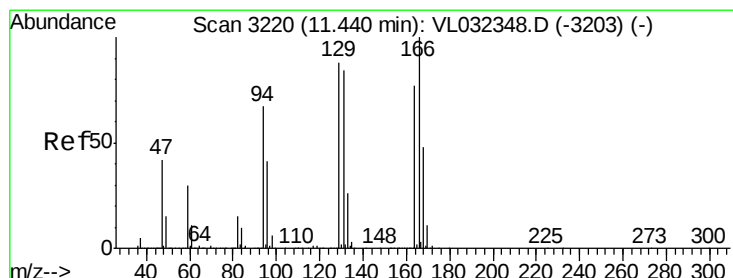
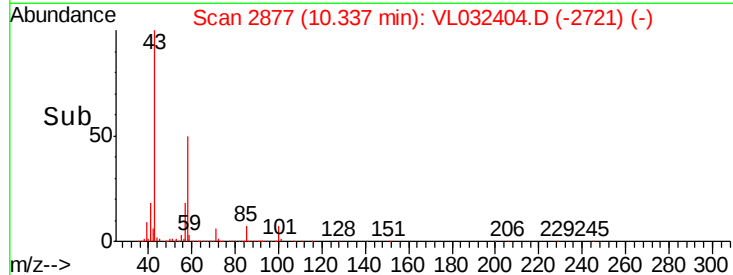
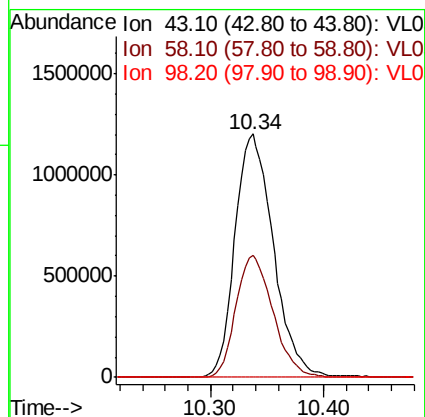
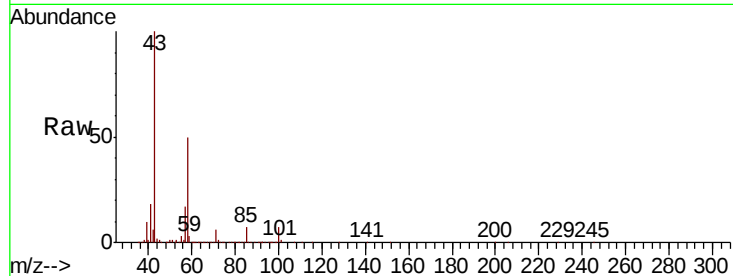
#51
2-Hexanone
Concen: 11.13 ppbv
RT: 10.34 min Scan# 2877
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.7	39.5	59.3
98	0.5	0.3	0.5

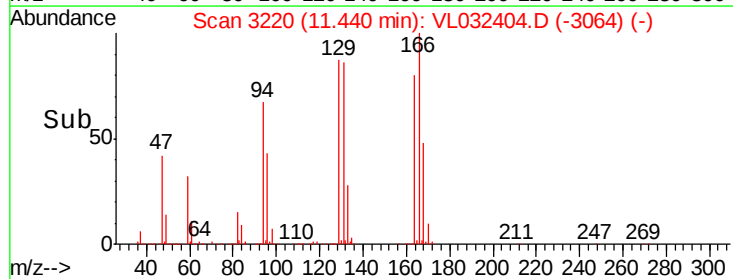
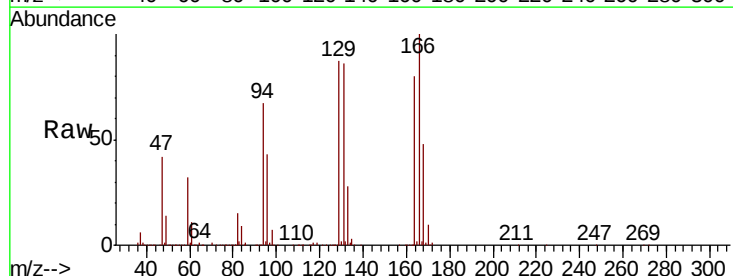
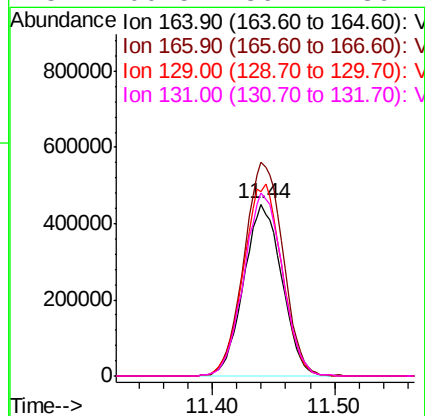
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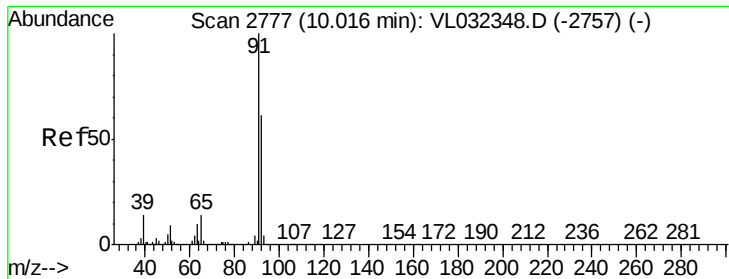
MMDadoda
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#52
Tetrachloroethene
Concen: 10.49 ppbv
RT: 11.44 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.4	103.5	155.3
129	107.6	90.9	136.3
131	106.5	86.7	130.1





#53

Toluene

Concen: 10.79 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3696880

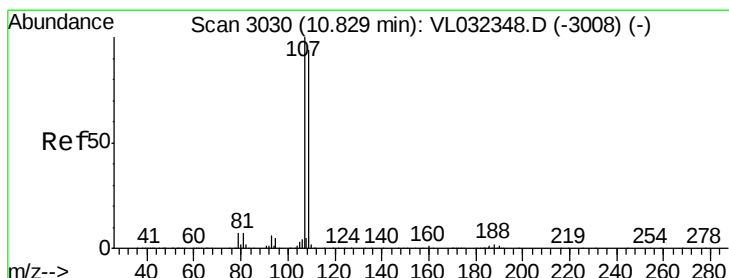
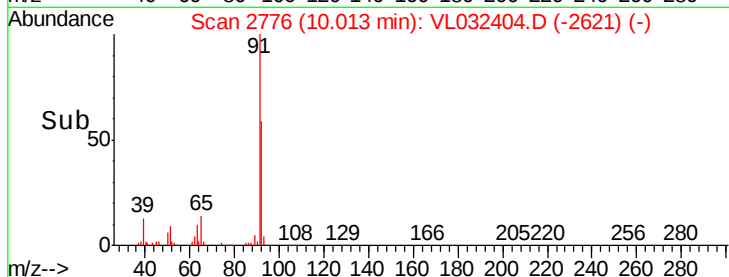
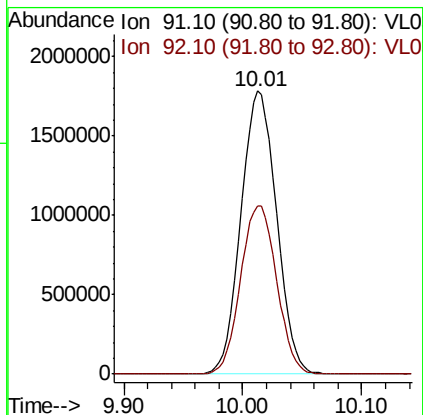
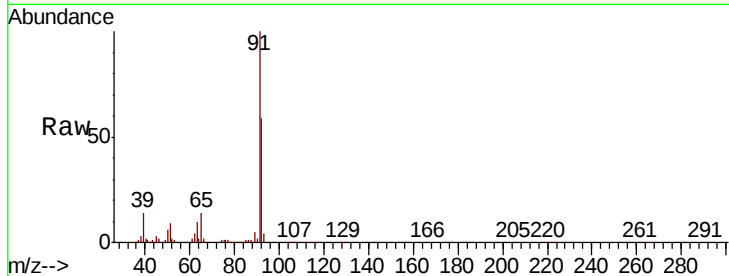
Ion Ratio Lower Upper

91 100

92 60.3 48.7 73.1

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8/28/2018 2:53:01 PM



#54

1,2-Dibromoethane

Concen: 10.65 ppbv

RT: 10.83 min Scan# 3030

Delta R.T. 0.00 min

Lab File: VL032404.D

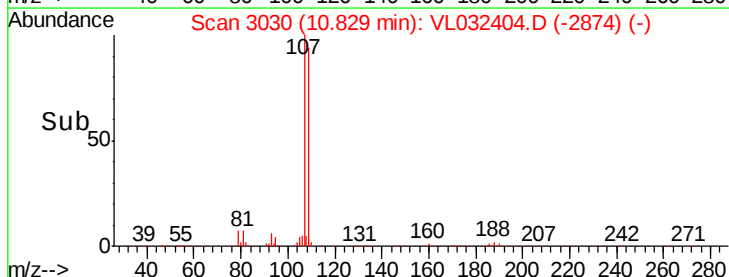
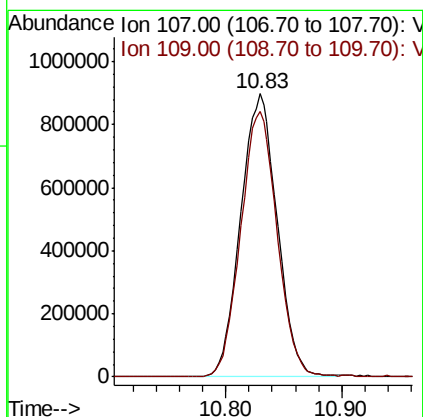
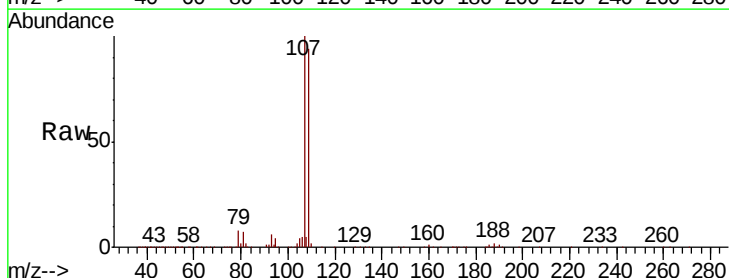
Acq: 17 Aug 2018 12:40

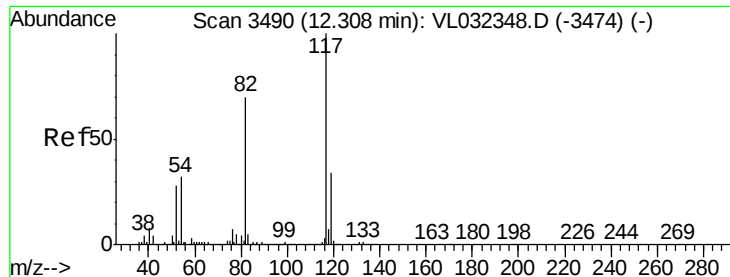
Tgt Ion: 107 Resp: 1966512

Ion Ratio Lower Upper

107 100

109 93.6 74.9 112.3





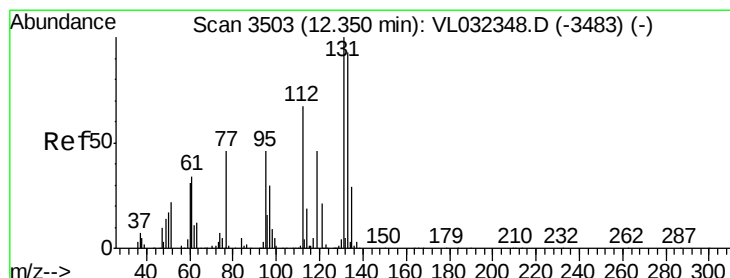
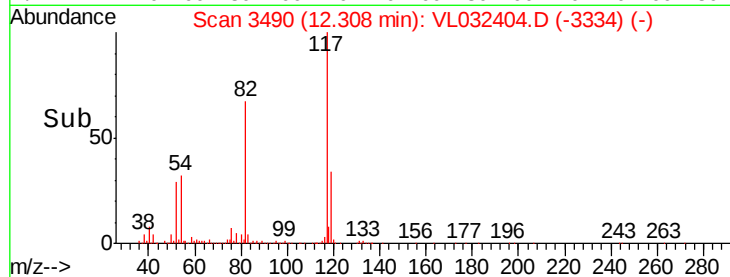
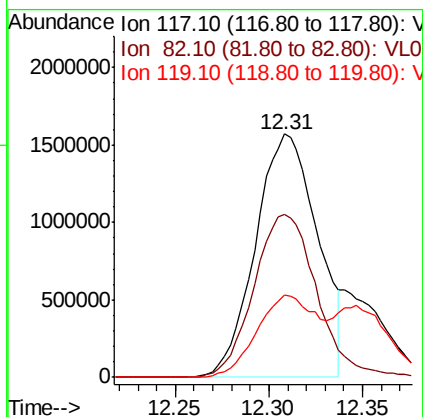
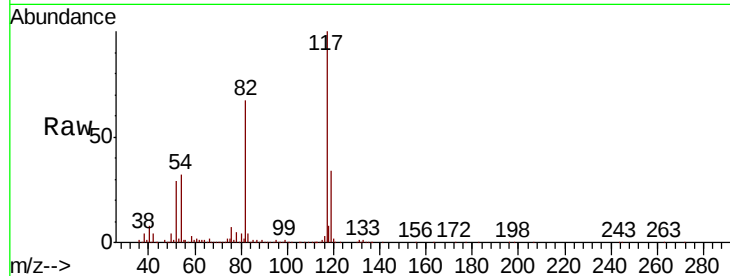
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.31 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3627463
Ion Ratio Lower Upper
117 100
82 68.2 55.1 82.7
119 58.7 46.0 69.0

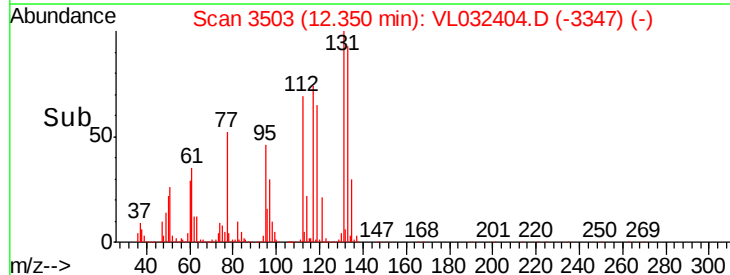
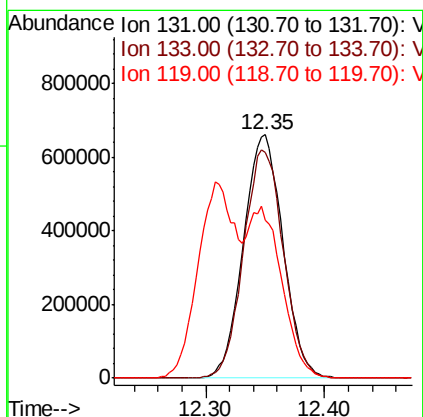
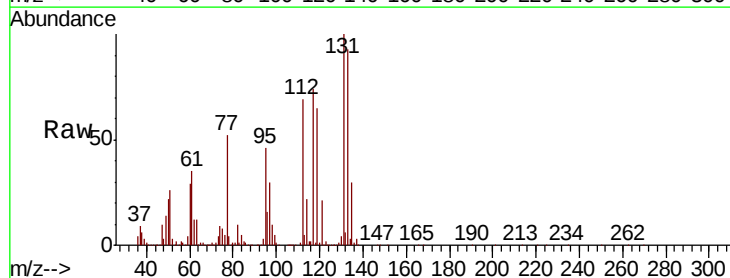
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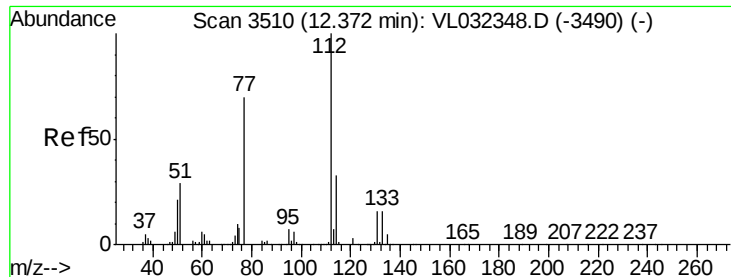
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.12 ppbv
RT: 12.35 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion:131 Resp: 1518232
Ion Ratio Lower Upper
131 100
133 94.9 75.7 113.5
119 61.4 116.0 174.0#





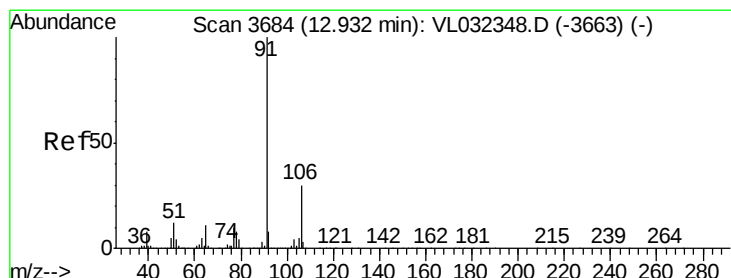
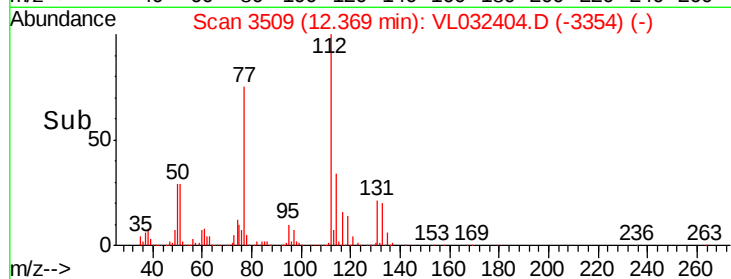
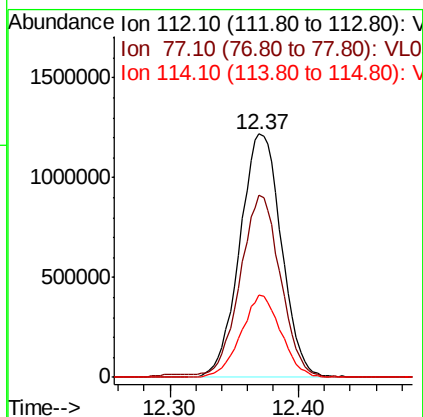
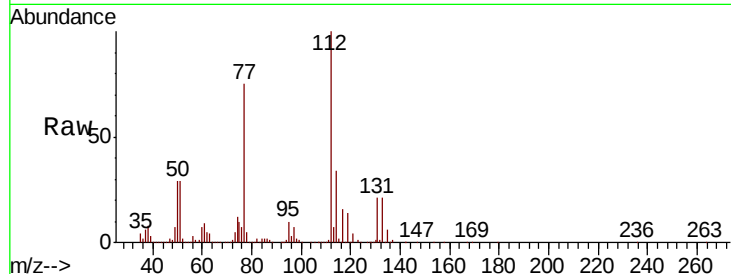
#57
Chlorobenzene
Concen: 9.99 ppbv
RT: 12.37 min Scan# 3509
Delta R.T. -0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	74.4	56.6	84.8
114	33.5	29.4	36.0

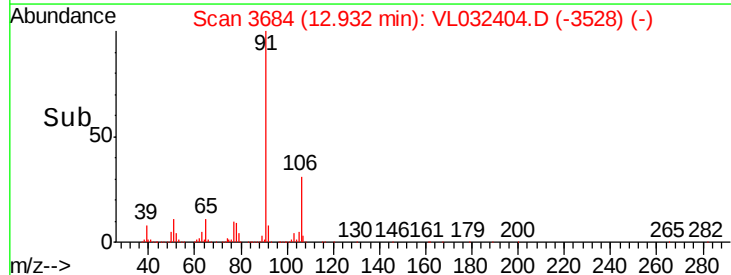
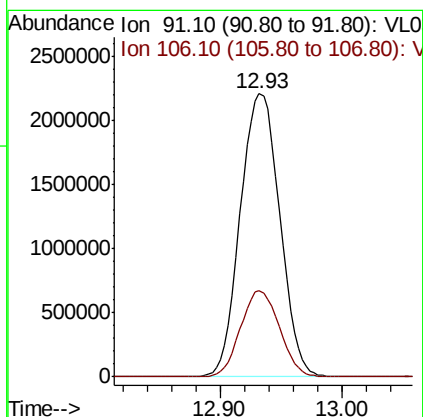
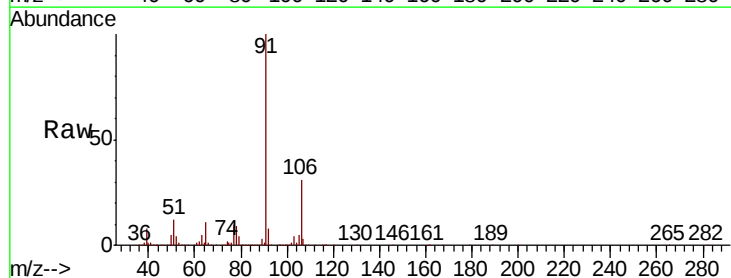
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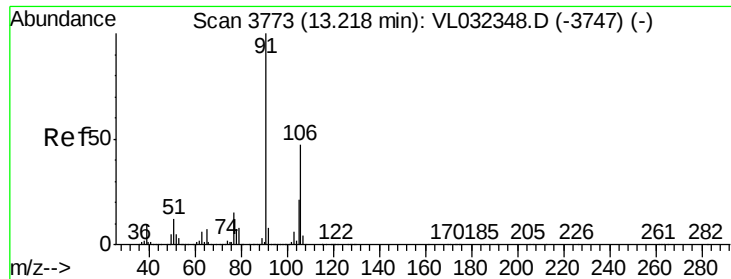
MMDadoda
8/28/2018 2:53:01 PM



#58
Ethyl Benzene
Concen: 11.30 ppbv
RT: 12.93 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.3	36.5





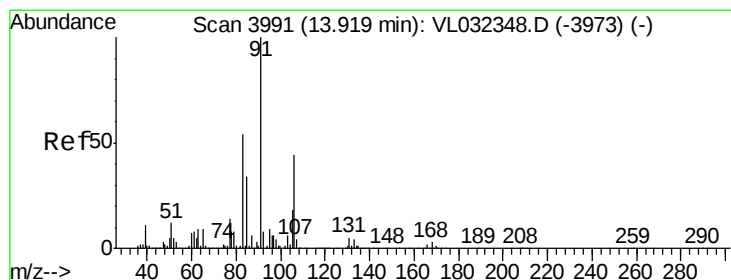
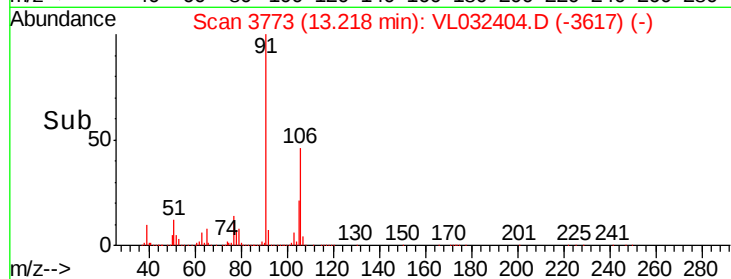
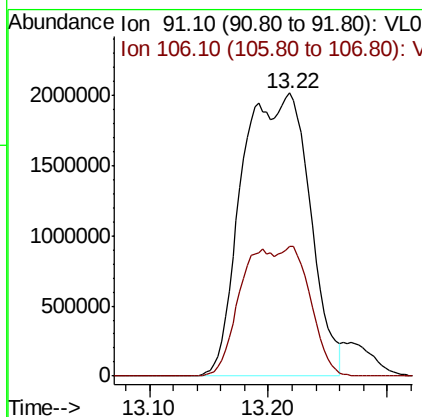
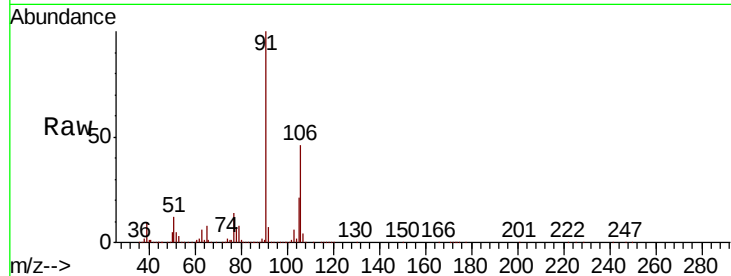
#59
m/p-Xylene
Concen: 21.58 ppbv m
RT: 13.22 min Scan# 3773
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8001217
Ion Ratio Lower Upper
91 100
106 45.6 37.0 55.4

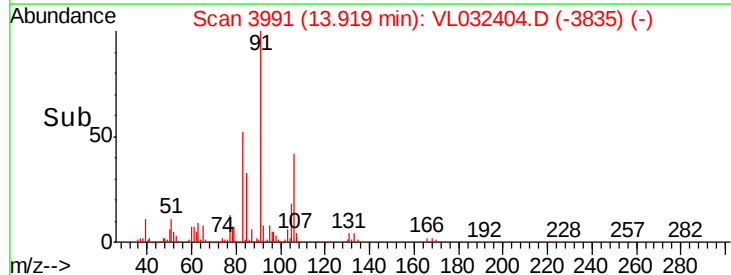
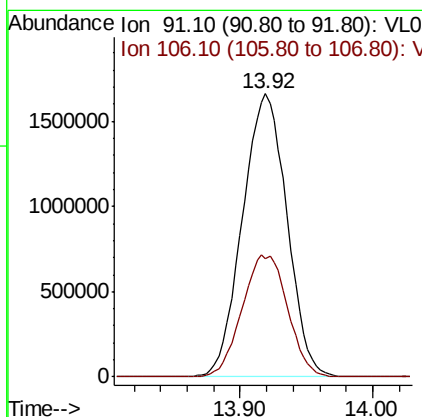
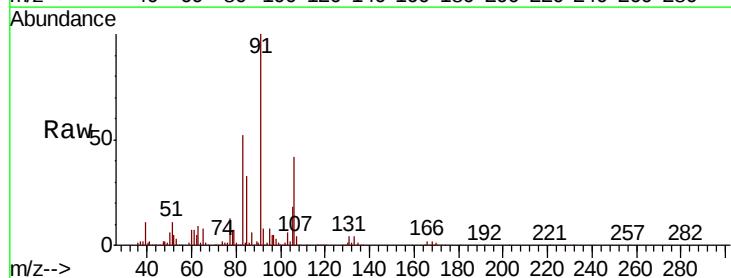
Manual Integrations
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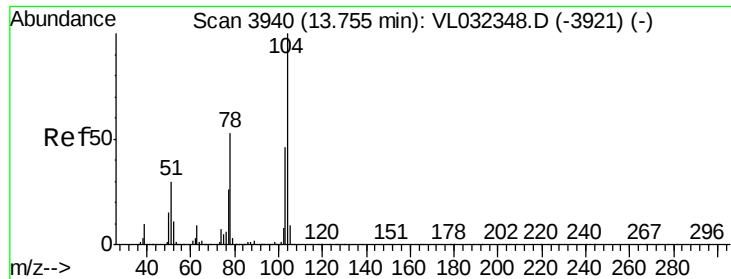
MMDadoda
8/28/2018 2:53:01 PM



#60
o-Xylene
Concen: 10.59 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. 0.00 min
Lab File: VL032404.D
Acq: 17 Aug 2018 12:40

Tgt Ion: 91 Resp: 3858645
Ion Ratio Lower Upper
91 100
106 44.3 22.3 66.8





#61

Stvrene

Concen: 11.86 ppbv

RT: 13.75 min Scan# 3939

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 3019176

Ion Ratio Lower Upper

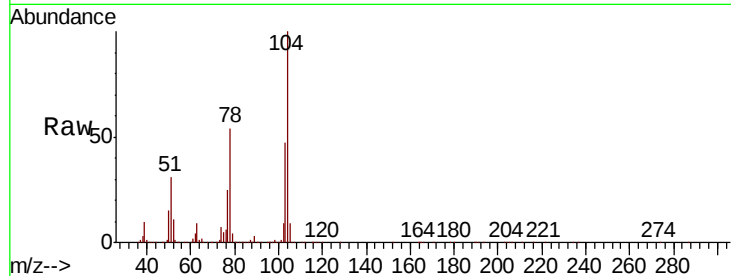
104 100

78 53.0 42.6 64.0

103 47.1 38.0 57.0

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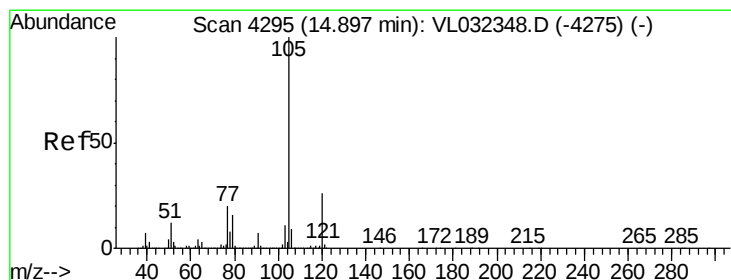
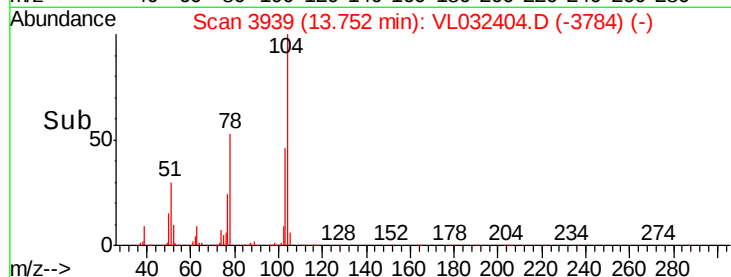
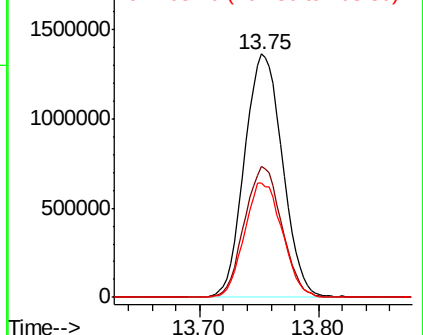
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.54 ppbv

RT: 14.89 min Scan# 4294

Delta R.T. -0.00 min

Lab File: VL032404.D

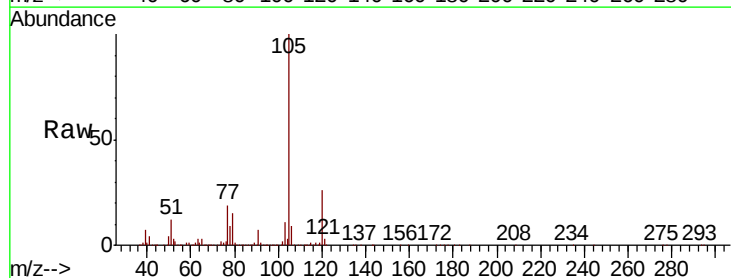
Acq: 17 Aug 2018 12:40

Tgt Ion:105 Resp: 5468903

Ion Ratio Lower Upper

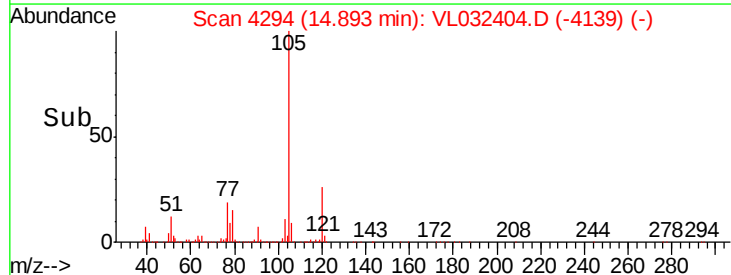
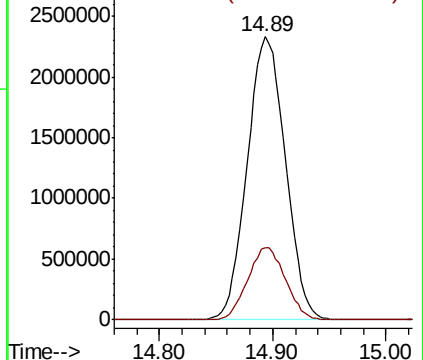
105 100

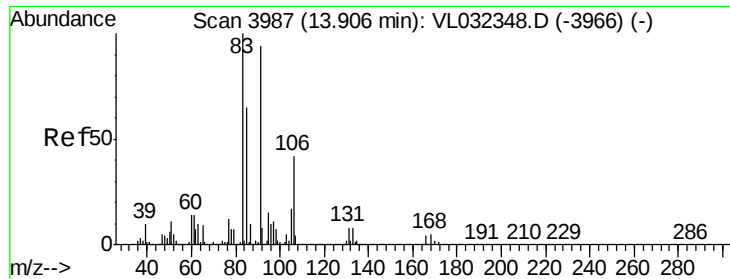
120 25.4 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





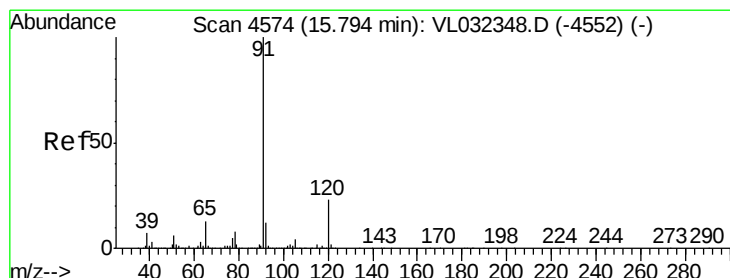
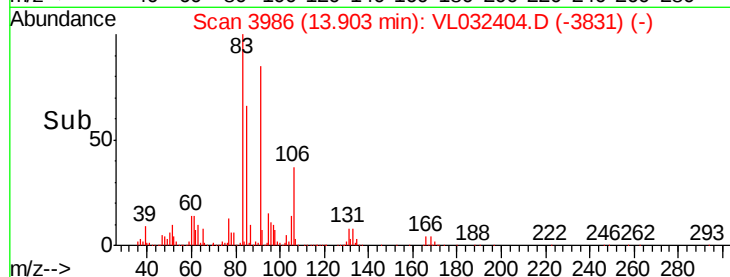
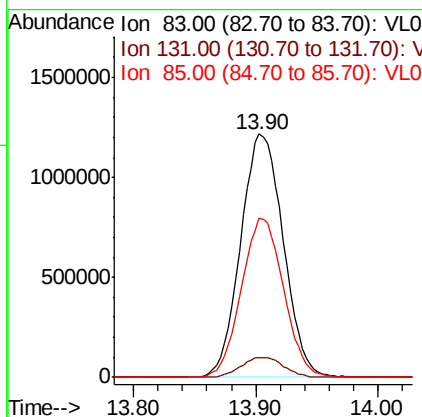
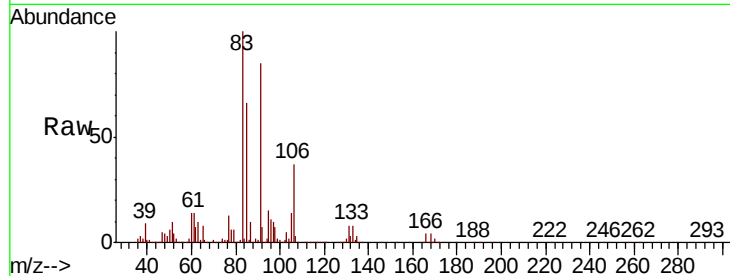
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.56 ppbv
 RT: 13.90 min Scan# 3986
 Delta R.T. -0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2928401
Ion Ratio	100	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	65.2	32.4	97.2

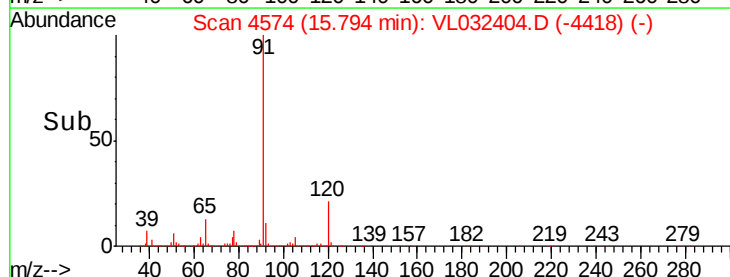
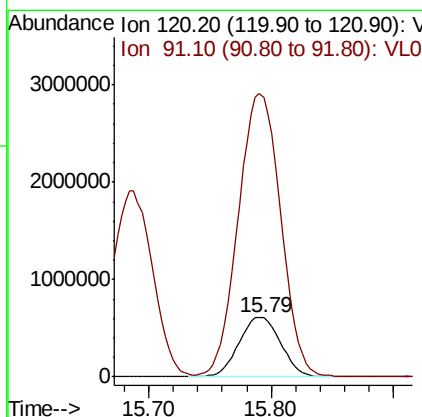
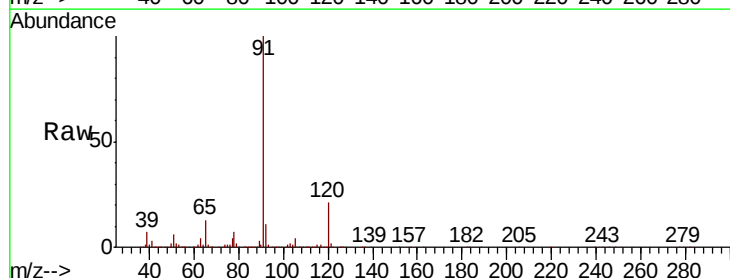
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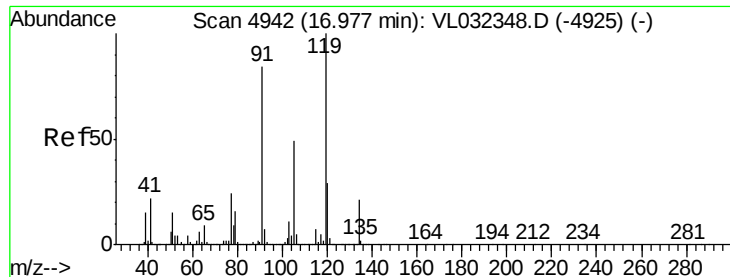
MMDadoda
 8/28/2018 2:53:01 PM



#64
 n-propylbenzene
 Concen: 10.77 ppbv
 RT: 15.79 min Scan# 4574
 Delta R.T. 0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion	120	Resp	1445431
Ion Ratio	100	Lower	Upper
120	100		
91	486.1	382.2	573.2





#65

tert-Butylbenzene

Concen: 10.61 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 4699138

Ion Ratio Lower Upper

119 100

91 84.1 67.4 101.0

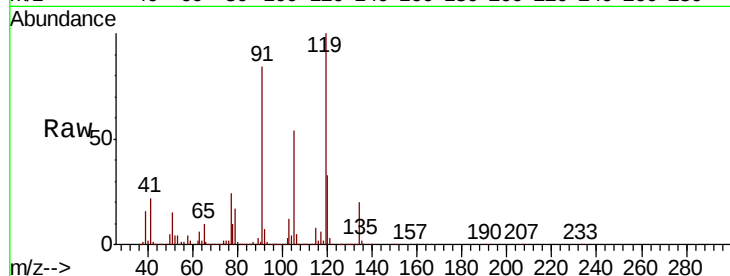
134 19.5 15.8 23.6

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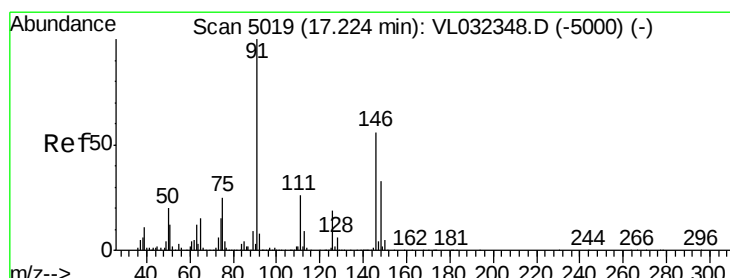
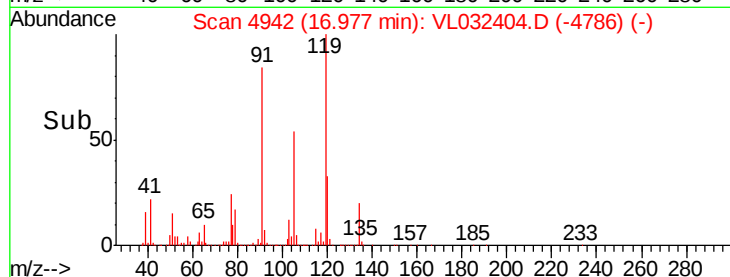
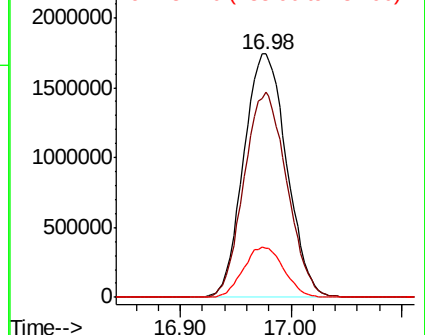
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.03 ppbv

RT: 17.22 min Scan# 5019

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

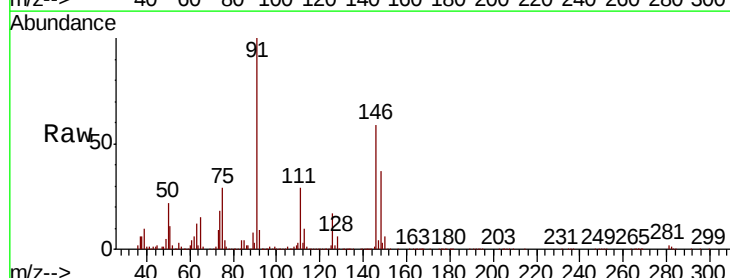
Tgt Ion: 91 Resp: 3157329

Ion Ratio Lower Upper

91 100

126 17.1 14.2 21.4

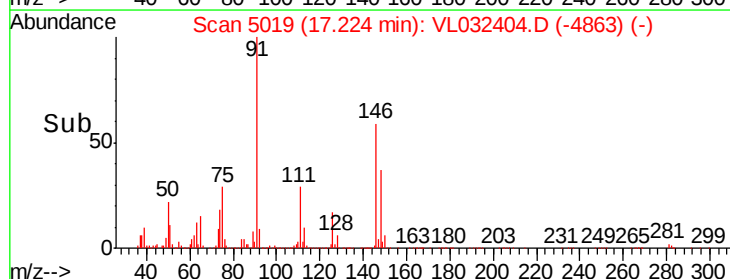
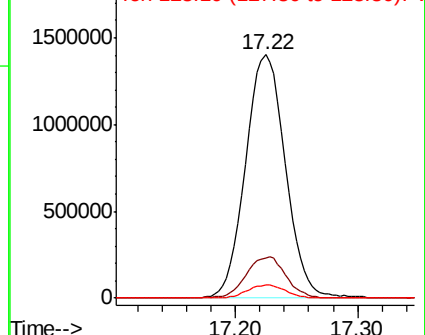
128 5.3 4.5 6.7

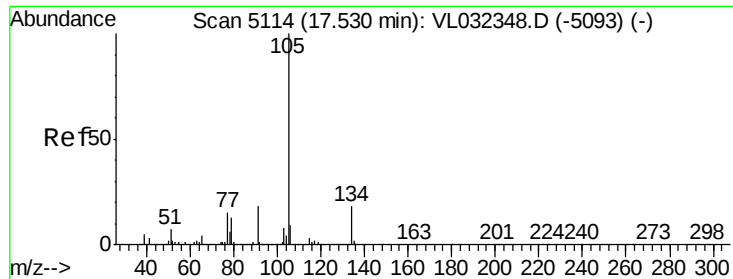


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.83 ppbv

RT: 17.53 min Scan# 5113

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 7135366

Ion Ratio Lower Upper

105 100

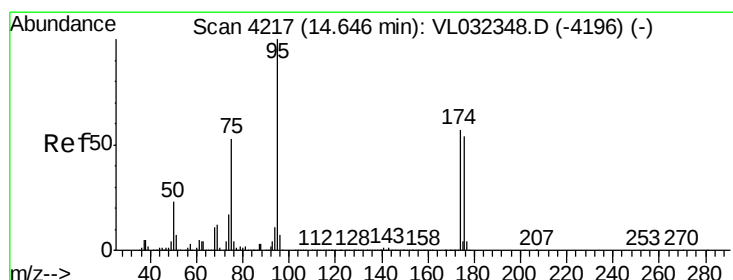
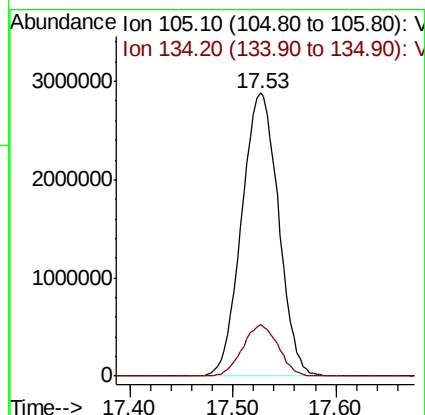
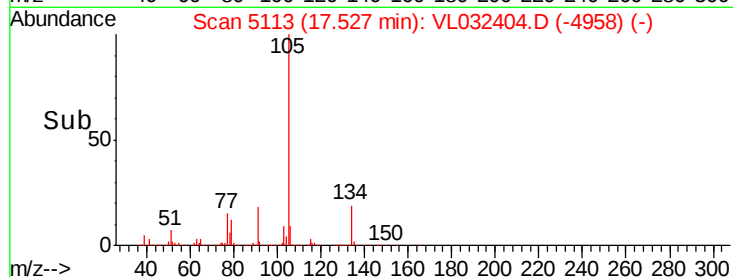
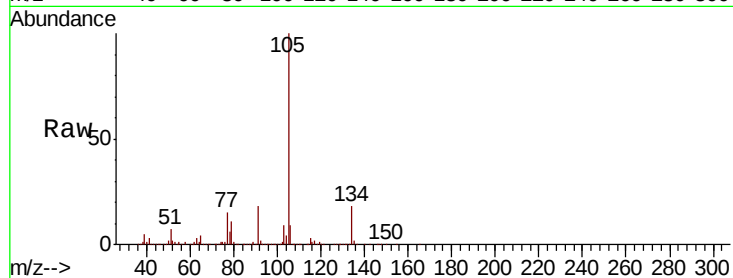
134 17.6 14.4 21.6

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.89 ppbv

RT: 14.65 min Scan# 4217

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

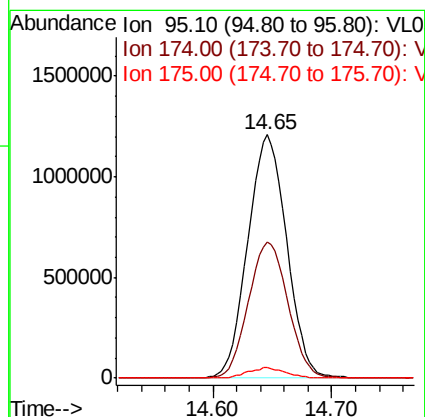
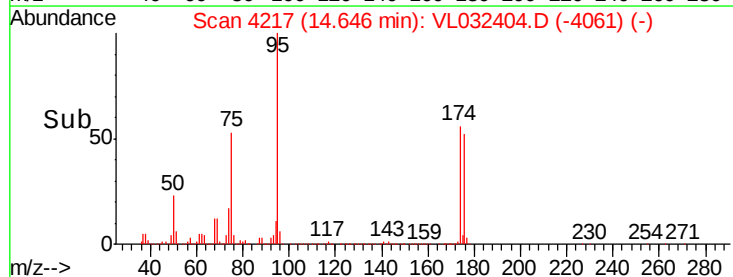
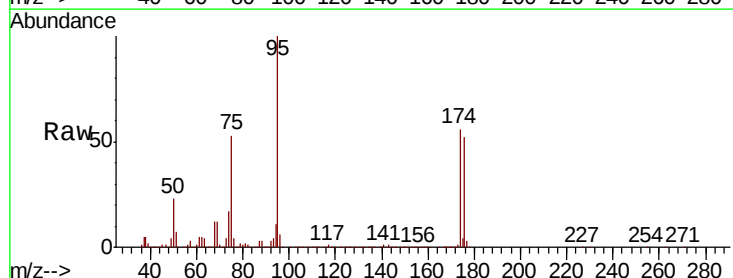
Tgt Ion: 95 Resp: 2736165

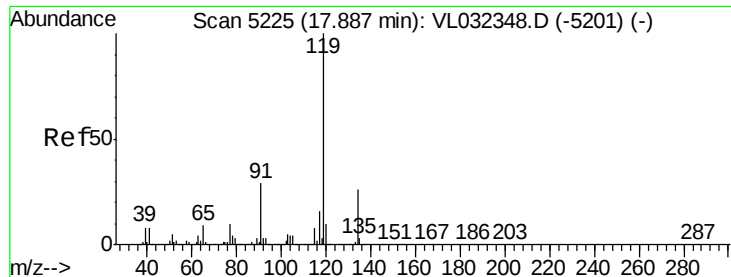
Ion Ratio Lower Upper

95 100

174 57.2 46.2 69.4

175 4.2 3.4 5.0





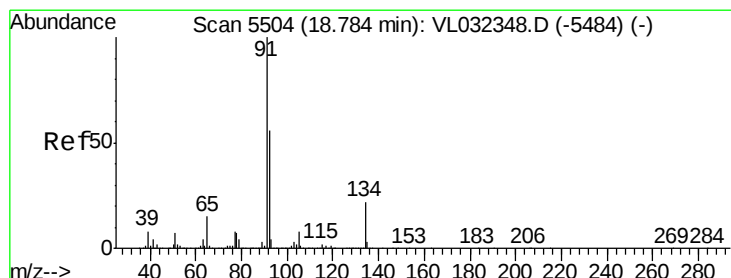
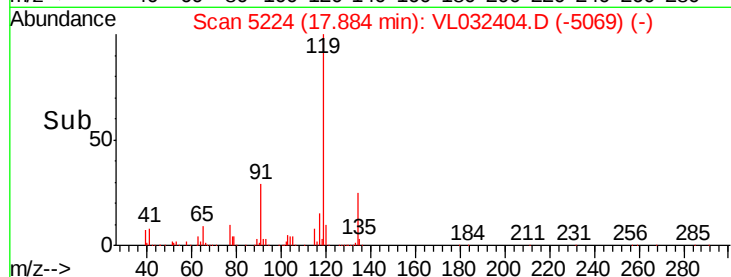
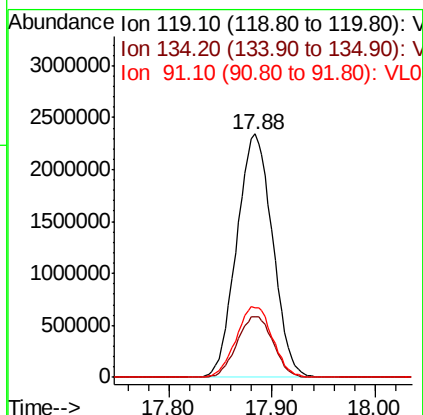
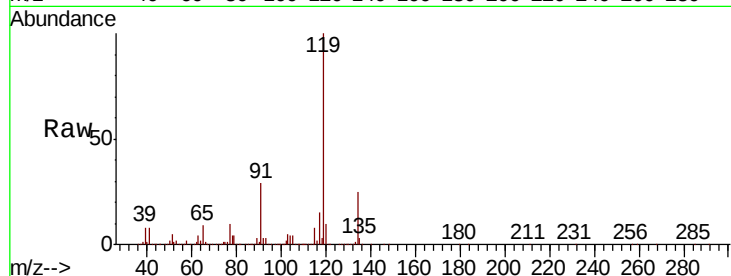
#69
 p-Isopropyltoluene
 Concen: 11.20 ppbv
 RT: 17.88 min Scan# 5224
 Delta R.T. -0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.4	30.6
91	29.5	23.6	35.4

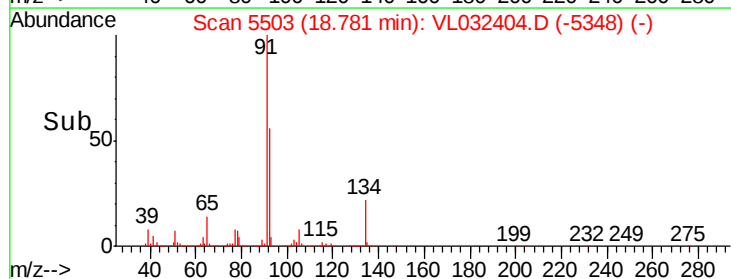
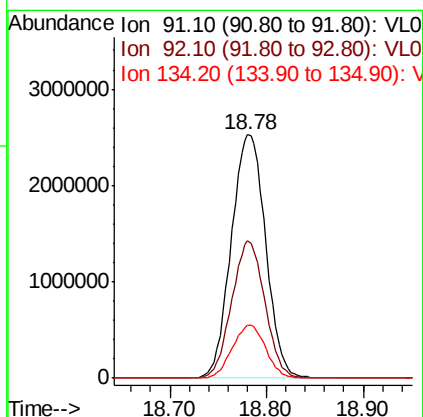
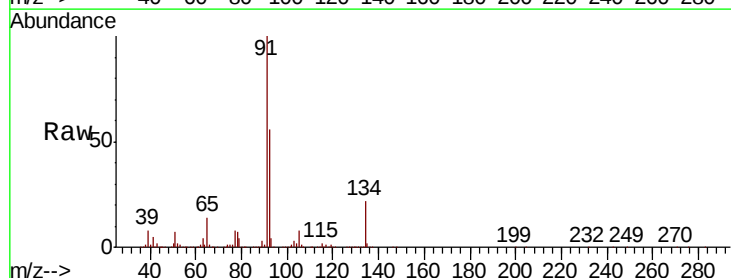
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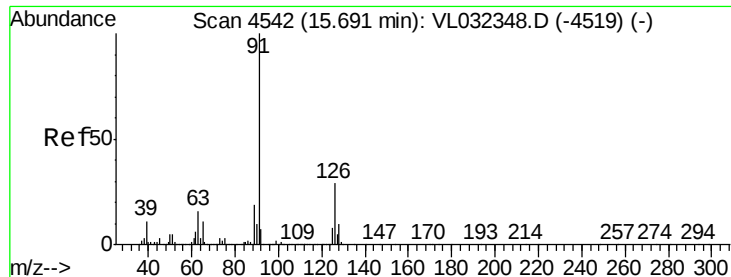
MMDadoda
 8/28/2018 2:53:01 PM



#70
 n-Butylbenzene
 Concen: 11.23 ppbv
 RT: 18.78 min Scan# 5503
 Delta R.T. -0.00 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	43.9	65.9
134	21.3	17.3	25.9





#71

2-Chlorotoluene

Concen: 11.00 ppbv

RT: 15.68 min Scan# 4540

Delta R.T. -0.01 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4415176

Ion Ratio Lower Upper

91 100

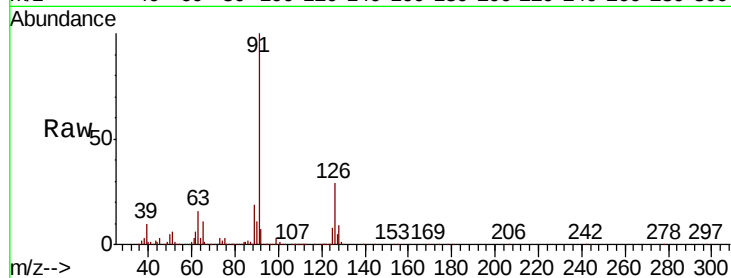
126 29.5 11.8 47.2

Manual Integrations

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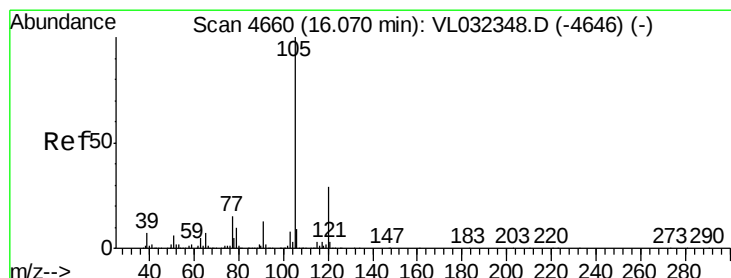
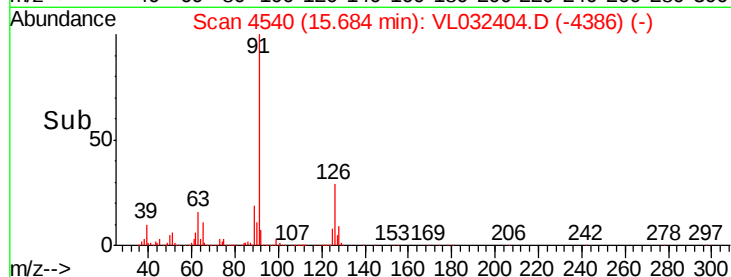
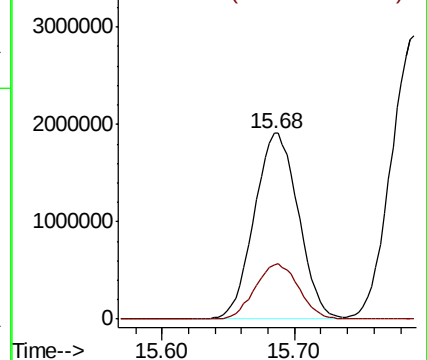
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.32 ppbv

RT: 16.07 min Scan# 4659

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Tgt Ion:105 Resp: 4599490

Ion Ratio Lower Upper

105 100

120 28.9 23.4 35.0

91 12.6 10.0 15.0

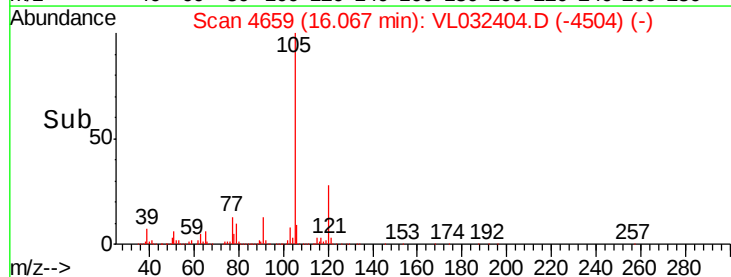
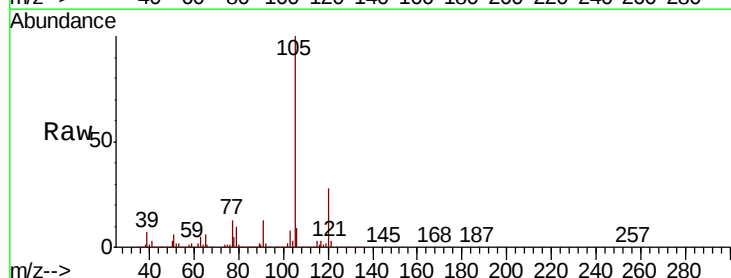
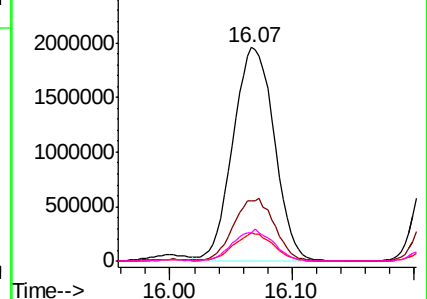
77 14.2 11.3 16.9

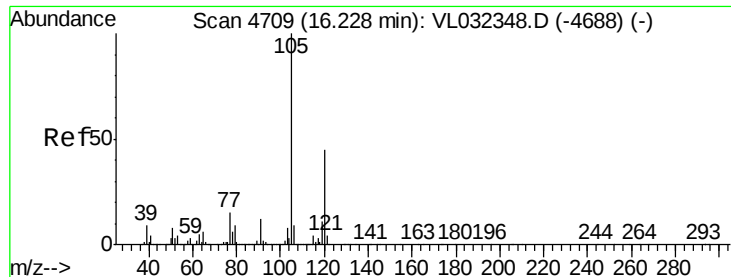
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 11.21 ppbv

RT: 16.23 min Scan# 4709

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4382359

Ion Ratio Lower Upper

105 100

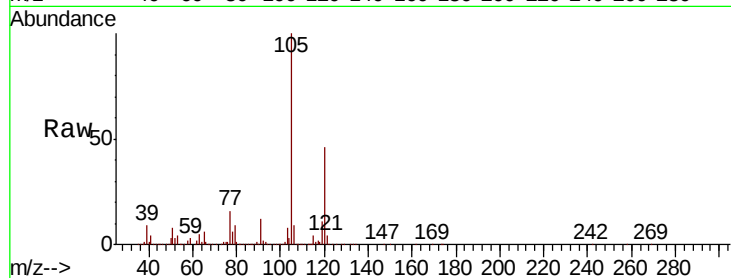
120 45.6 36.3 54.5

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.23

2000000

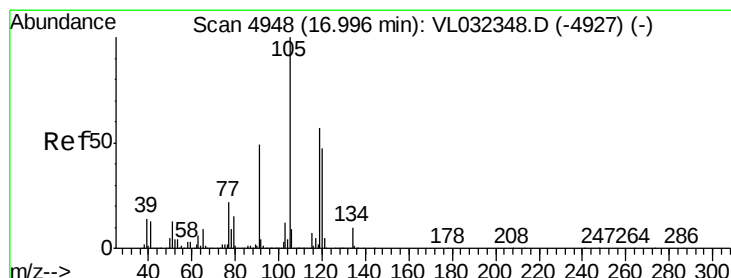
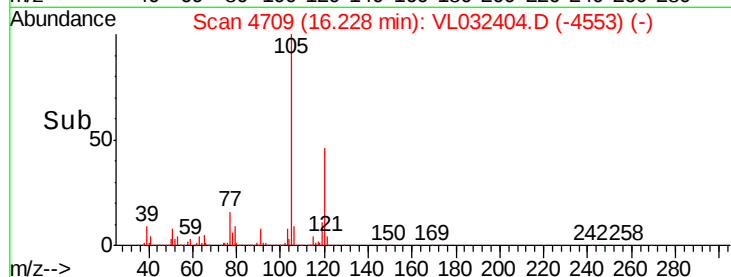
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 10.66 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Tgt Ion:105 Resp: 4433756

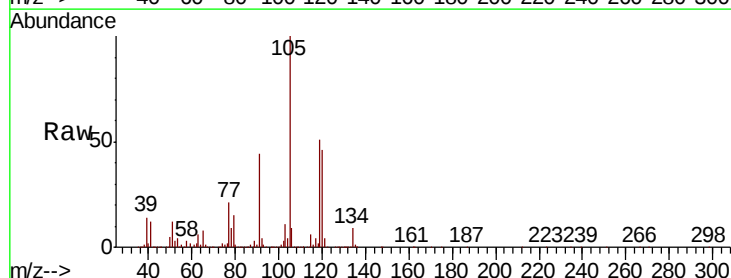
Ion Ratio Lower Upper

105 100

120 46.5 37.6 56.4

91 44.1 39.9 59.9

77 21.3 17.8 26.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

17.00

3000000

2500000

2000000

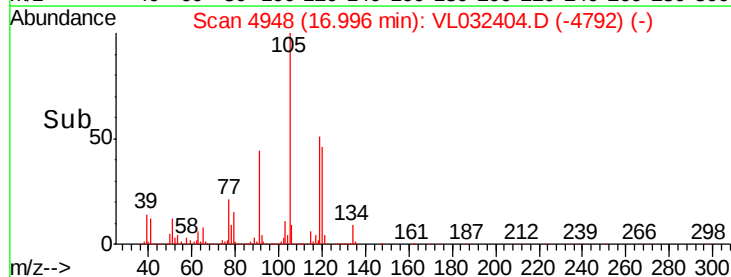
1500000

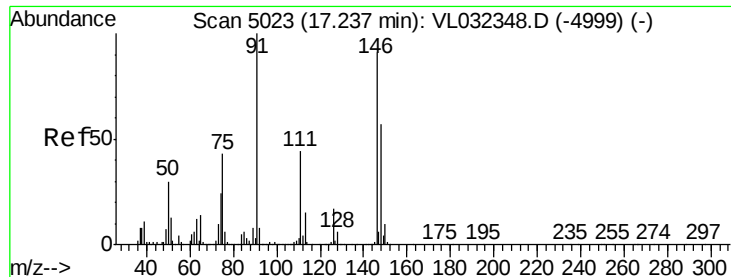
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 9.98 ppbv

RT: 17.23 min Scan# 5022

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2495029

Ion Ratio Lower Upper

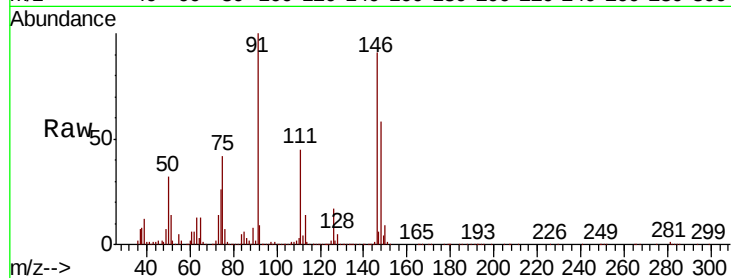
146 100

111 49.5 24.6 73.8

148 64.4 32.0 96.0

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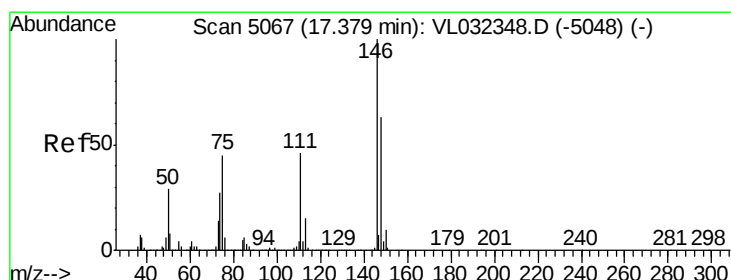
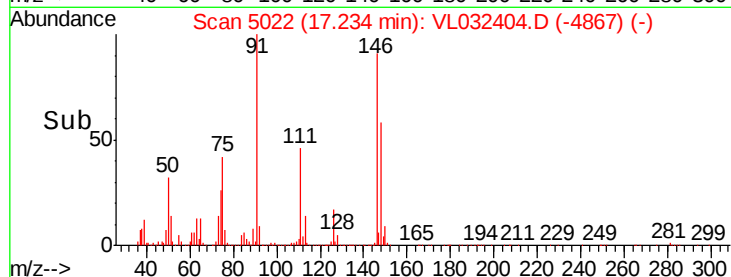
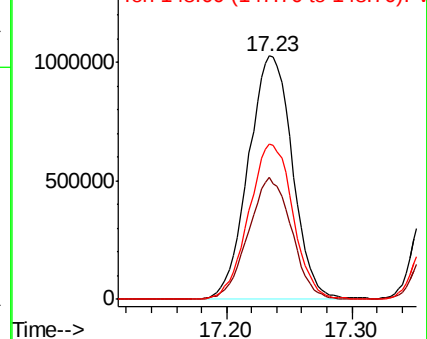


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.69 ppbv

RT: 17.38 min Scan# 5066

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

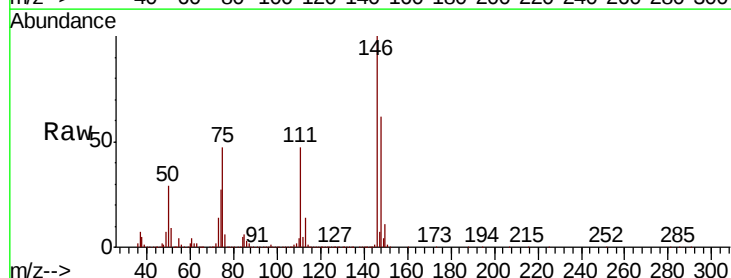
Tgt Ion:146 Resp: 2532092

Ion Ratio Lower Upper

146 100

111 47.5 23.8 71.4

148 64.2 32.2 96.6

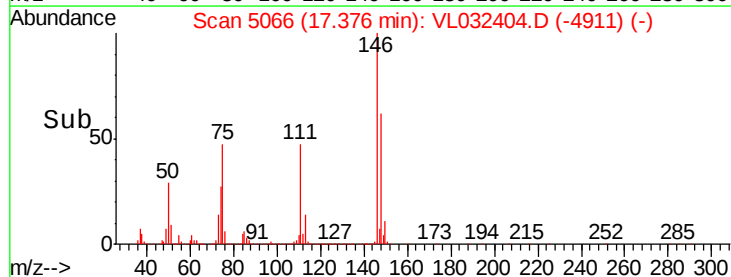
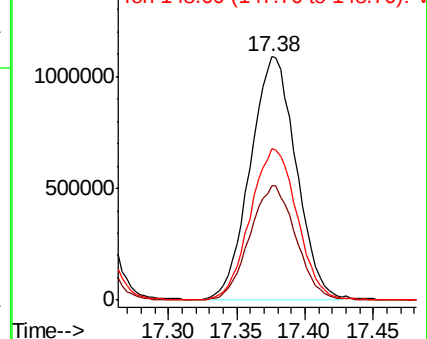


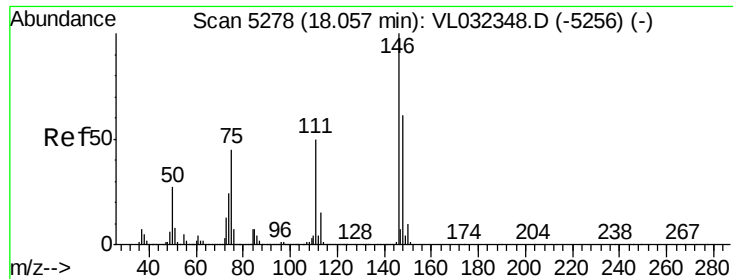
Abundance

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: 10.49 ppbv

RT: 18.06 min Scan# 5278

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2505702

Ion Ratio Lower Upper

146 100

111 50.0 25.2 75.6

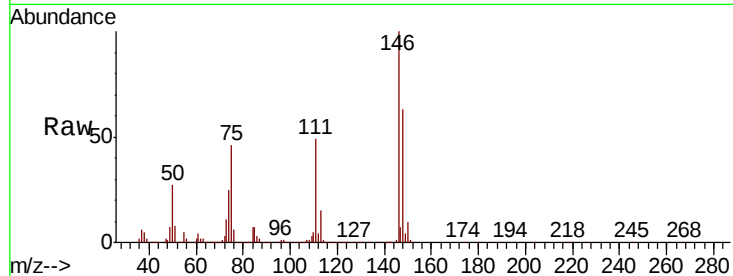
148 63.3 31.8 95.4

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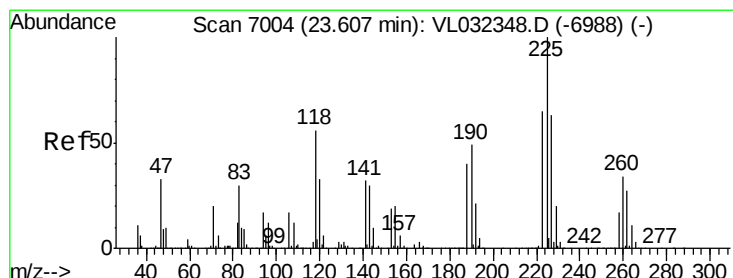
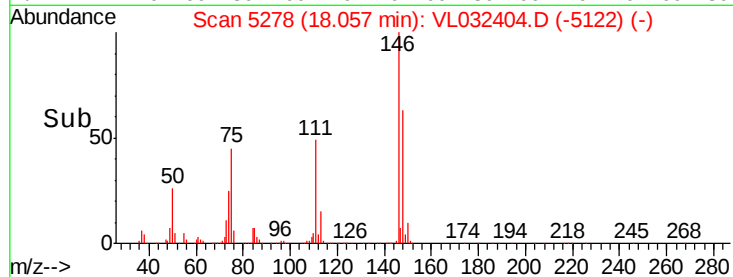
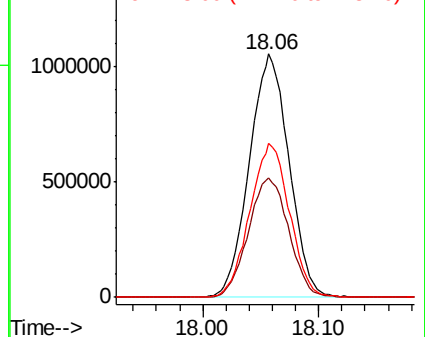
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.48 ppbv

RT: 23.60 min Scan# 7003

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

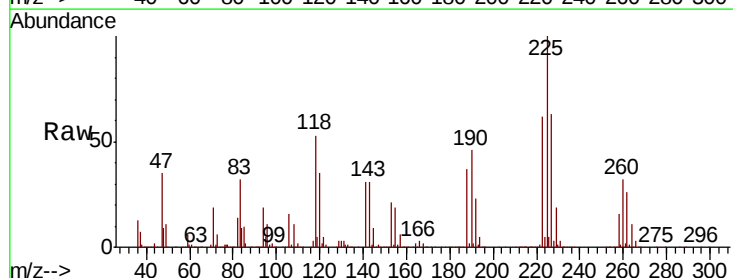
Tgt Ion:225 Resp: 759658

Ion Ratio Lower Upper

225 100

223 63.8 50.6 76.0

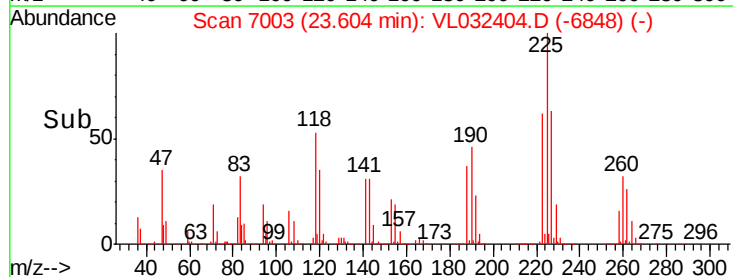
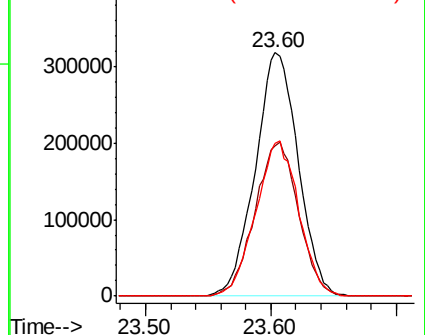
227 63.7 51.0 76.6

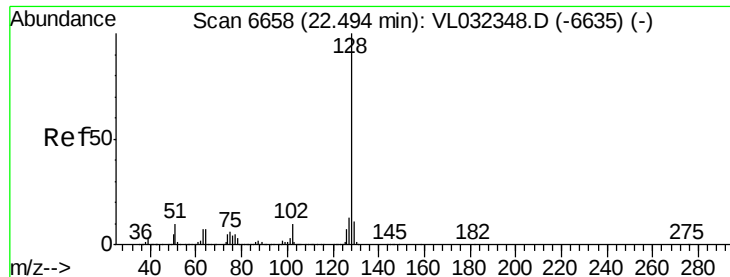


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.60 ppbv

RT: 22.49 min Scan# 6657

Delta R.T. -0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 4129905

Ion Ratio Lower Upper

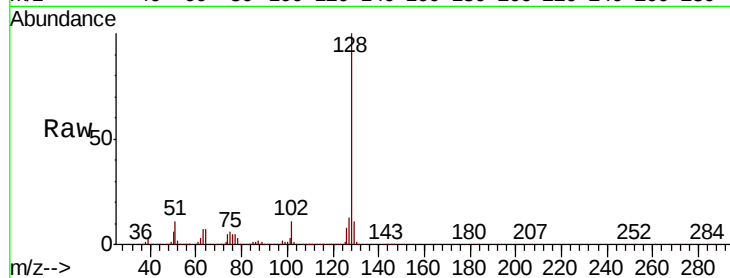
128 100

127 13.0 10.3 15.5

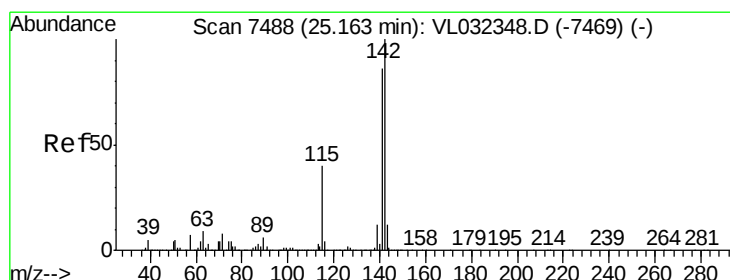
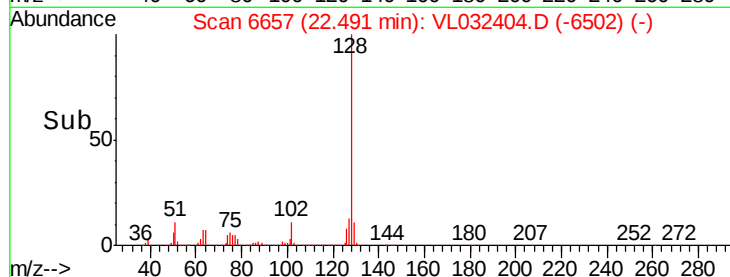
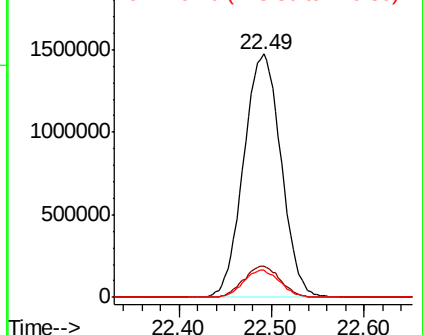
129 11.3 8.6 13.0

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Abundance Ion 128.10 (127.80 to 128.80): V
2000000 Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 19.99 ppbv

RT: 25.16 min Scan# 7488

Delta R.T. 0.00 min

Lab File: VL032404.D

Acq: 17 Aug 2018 12:40

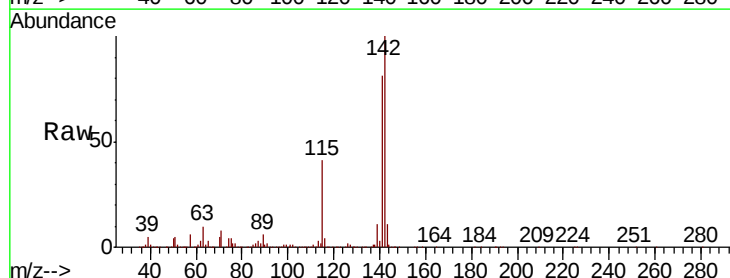
Tgt Ion:142 Resp: 1658657

Ion Ratio Lower Upper

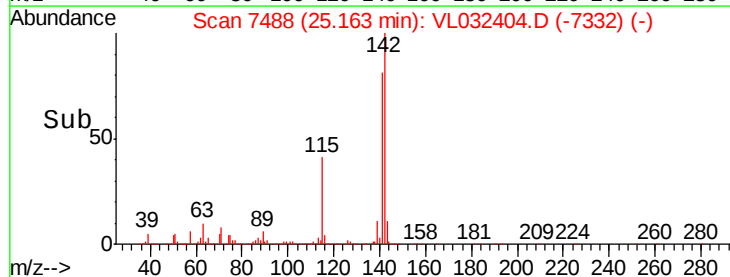
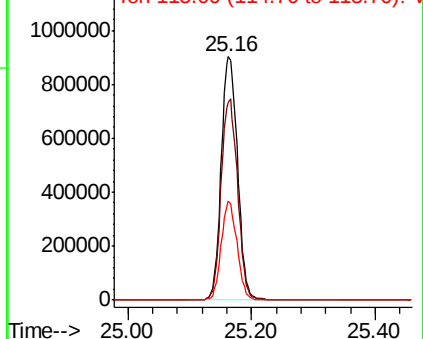
142 100

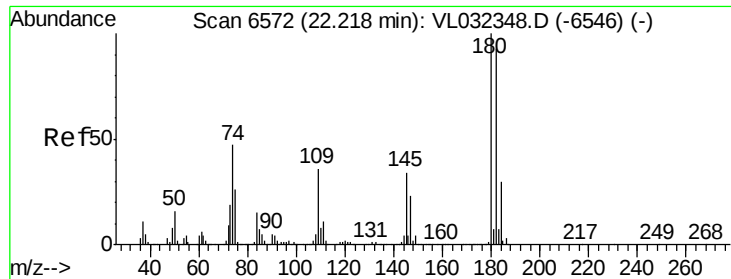
141 83.4 66.7 100.1

115 39.7 31.0 46.6



Abundance Ion 142.00 (141.70 to 142.70): V
1200000 Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 12.02 ppbv
 RT: 22.21 min Scan# 6570
 Delta R.T. -0.01 min
 Lab File: VL032404.D
 Acq: 17 Aug 2018 12:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.1	114.1
184	30.4	24.2	36.2

Manual Integrations
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