

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100318\
 Data File : VL032582.D
 Acq On : 3 Oct 2018 15:45
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 10/4/2018 7:07:03 PM

Quant Time: Oct 03 16:16:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1369114	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.33	114	3202431	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3501078m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2493083	9.44	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1046219	8.262	ppbv	98
3) Chlorodifluoromethane	3.03	51	1104603	9.702	ppbv	98
4) Chloromethane	3.19	50	626374	9.435	ppbv	97
5) Vinyl Chloride	3.31	62	655474	9.771	ppbv	98
6) Bromomethane	3.53	94	391887	10.682	ppbv	99
7) Chloroethane	3.62	64	242453	10.144	ppbv	98
8) Dichlorotetrafluoroethane	3.24	85	1461444	10.563	ppbv	98
9) Propene	3.05	41	460844	9.329	ppbv	99
10) Heptane	8.28	43	1859063	10.260	ppbv	97
11) Trichlorofluoromethane	4.02	101	1564650	10.394	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1116345	9.072	ppbv	100
13) Ethanol	3.67	45	137389	9.253	ppbv	94
14) Bromoethene	3.81	108	471225	10.792	ppbv	99
15) Acetone	3.92	43	1132951	9.427	ppbv	99
16) 1,3-Butadiene	3.38	39	480662	9.862	ppbv	94
17) tert-Butyl alcohol	4.38	59	116086	7.687	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	517330	8.977	ppbv	98
19) Isopropyl Alcohol	4.04	45	871036	10.405	ppbv	99
20) Methylene Chloride	4.43	84	474919	8.161	ppbv	99
21) Allyl Chloride	4.50	41	914353	9.309	ppbv	98
22) trans-1,2-Dichloroethene	4.98	96	630681	11.612	ppbv	95
23) Vinyl Acetate	5.18	43	2231669	10.509	ppbv	99
24) 1,1-Dichloroethane	5.12	63	1747086	9.879	ppbv	100
25) Ethyl Acetate	5.80	43	2877169	9.866	ppbv	100
26) Hexane	5.80	57	1341629	10.185	ppbv	100
27) Carbon Disulfide	4.64	76	1400451	9.890	ppbv	99
28) Methyl tert-Butyl Ether	5.14	73	1808379	11.021	ppbv	98
29) Chloroform	5.88	83	2071180	10.248	ppbv	99
30) Cyclohexane	7.28	84	1168649	10.896	ppbv	96
31) cis-1,2-Dichloroethene	5.67	61	1363247	10.867	ppbv	99
32) 1,1,1-Trichloroethane	6.65	97	2167014	10.061	ppbv	98
34) 2-Butanone	5.35	43	1845541	9.678	ppbv	98
35) Carbon Tetrachloride	7.16	117	2215602	9.956	ppbv	97
36) Benzene	7.04	78	2846346	10.998	ppbv	99
37) 1,2-Dichloroethane	6.44	62	1677480	10.755	ppbv	99
38) Trichloroethene	7.99	130	1067789	10.779	ppbv	98
39) 1,2-Dichloropropane	7.77	63	1162712	9.969	ppbv	97
40) 1,4-Dioxane	7.98	88	405515	11.340	ppbv	71
41) Tetrahydrofuran	6.17	42	1107909	10.693	ppbv	94
42) Bromodichloromethane	7.95	83	2429229	10.396	ppbv	98
43) Methyl Methacrylate	8.16	69	1217014	11.257	ppbv	97

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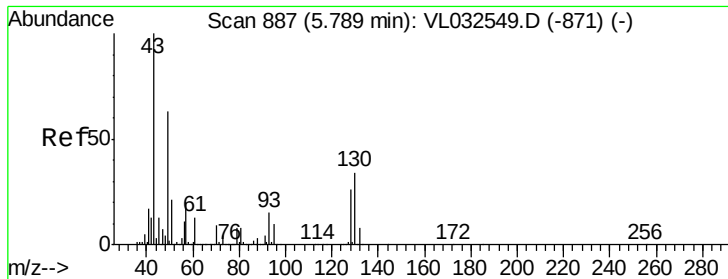
Manual Integrations
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	5087474	10.058	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	1669324	12.413	ppbv	99
46) cis-1,3-Dichloropropene	8.87	75	1787167	11.329	ppbv	98
47) 1,1,2-Trichloroethane	9.65	97	1297657	10.018	ppbv	98
48) Dibromochloromethane	10.49	129	2211159	10.856	ppbv	99
49) Bromoform	13.24	173	1716580	11.029	ppbv	99
50) 4-Methyl-2-Pentanone	8.90	43	2894806	9.657	ppbv	99
51) 2-Hexanone	10.30	43	2644695	10.668	ppbv #	99
52) Tetrachloroethene	11.41	164	930667	10.328	ppbv	97
53) Toluene	9.98	91	3555054	11.272	ppbv	100
54) 1,2-Dibromoethane	10.79	107	1963404	10.657	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.31	131	1569233	9.971	ppbv #	56
57) Chlorobenzene	12.34	112	2711495	9.614	ppbv	99
58) Ethyl Benzene	12.90	91	4505358	10.609	ppbv	98
59) m/p-Xylene	13.18	91	7528677m	19.925	ppbv	
60) o-Xylene	13.88	91	3658836	9.946	ppbv	100
61) Styrene	13.72	104	2697138	11.208	ppbv	99
62) Isopropylbenzene	14.86	105	5145853	9.891	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.87	83	2775420	8.492	ppbv	99
64) n-propylbenzene	15.76	120	1335862	9.995	ppbv	97
65) tert-Butylbenzene	16.94	119	4378481	9.819	ppbv	99
66) Benzyl Chloride	17.19	91	2819154	10.969	ppbv	100
67) sec-Butylbenzene	17.49	105	6417292	9.679	ppbv	100
69) p-Isopropyltoluene	17.85	119	5166939	10.090	ppbv	100
70) n-Butylbenzene	18.75	91	5682842	10.160	ppbv	99
71) 2-Chlorotoluene	15.65	91	4093831	10.331	ppbv	99
72) 4-Ethyltoluene	16.03	105	4226278	10.584	ppbv	99
73) 1,3,5-Trimethylbenzene	16.19	105	4039586	10.410	ppbv	99
74) 1,2,4-Trimethylbenzene	16.96	105	4100615	9.814	ppbv	93
75) 1,3-Dichlorobenzene	17.20	146	2301095	8.925	ppbv	100
76) 1,4-Dichlorobenzene	17.34	146	2297308	9.731	ppbv	100
77) 1,2-Dichlorobenzene	18.02	146	2283197	9.416	ppbv	99
78) Hexachloro-1,3-Butadiene	23.58	225	1390056m	15.275	ppbv	
79) Naphthalene	22.45	128	3684209	12.226	ppbv	100
80) Naphthalene, 2-methyl-	25.14	142	1395668	19.727	ppbv	99
81) 1,2,4-Trichlorobenzene	22.17	180	1748739	11.322	ppbv	100

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



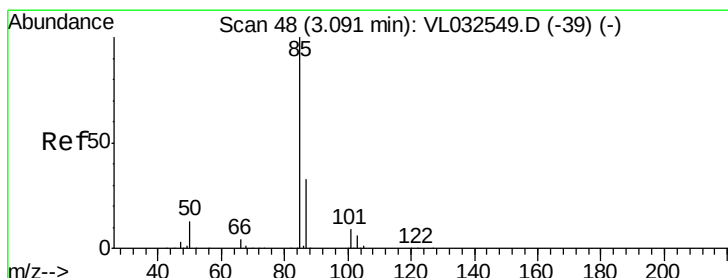
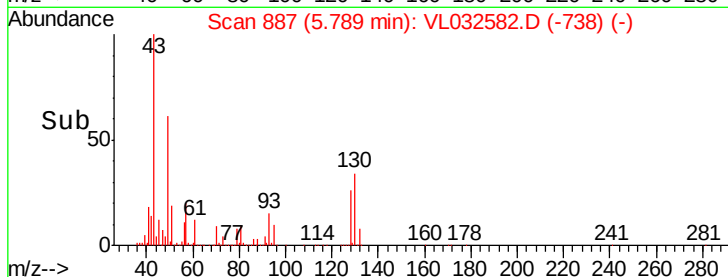
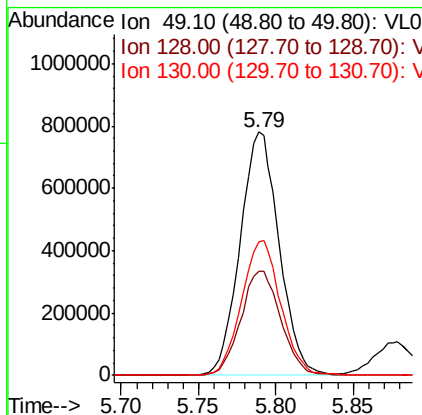
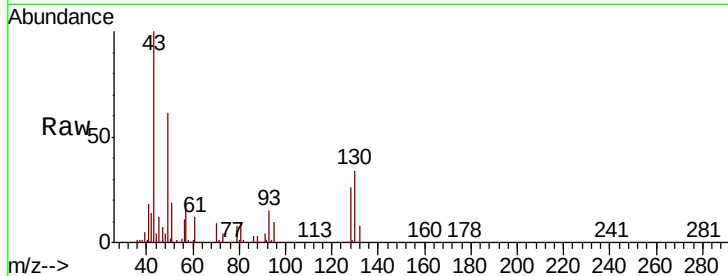
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

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MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 49 Resp: 1369114
Ion Ratio Lower Upper
49 100
128 44.1 20.7 62.1
130 56.2 26.6 79.7

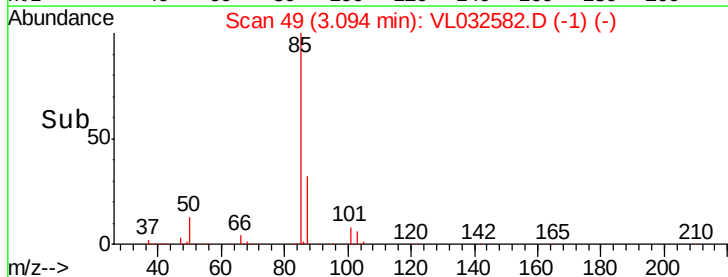
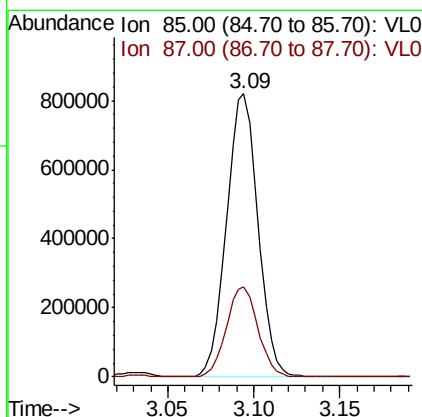
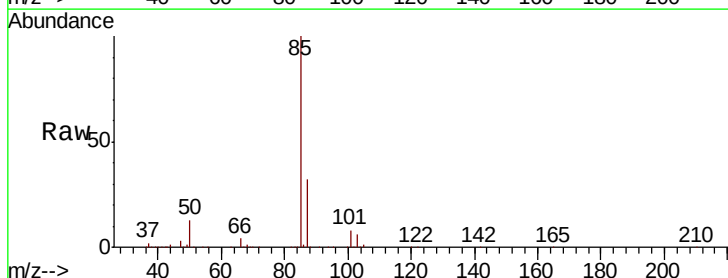
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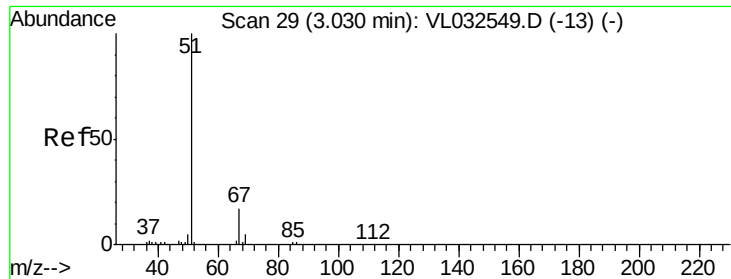
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#2
Dichlorodifluoromethane
Concen: 8.262 ppbv
RT: 3.09 min Scan# 49
Delta R.T. -0.01 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion: 85 Resp: 1046219
Ion Ratio Lower Upper
85 100
87 31.7 26.2 39.4





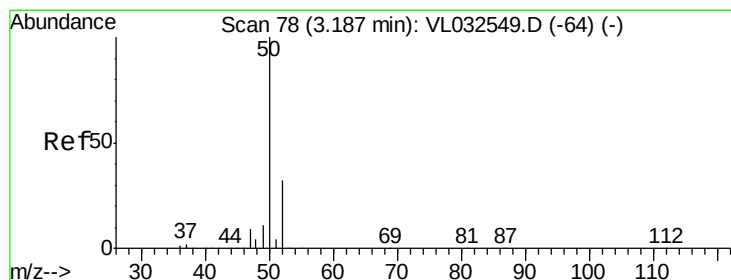
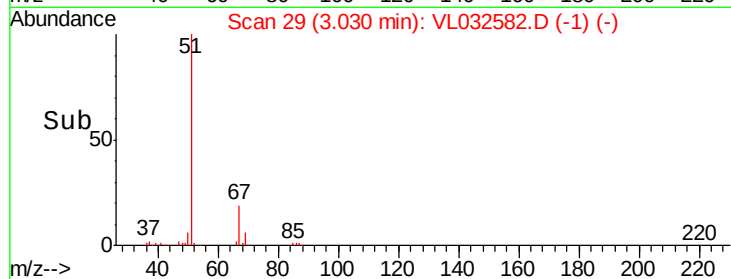
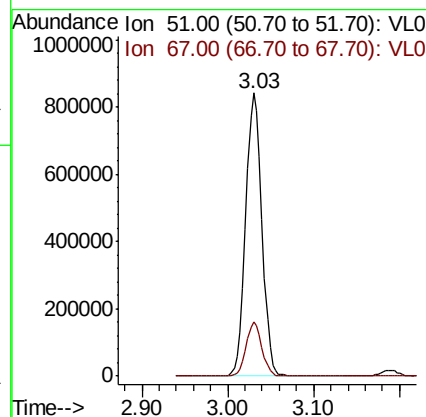
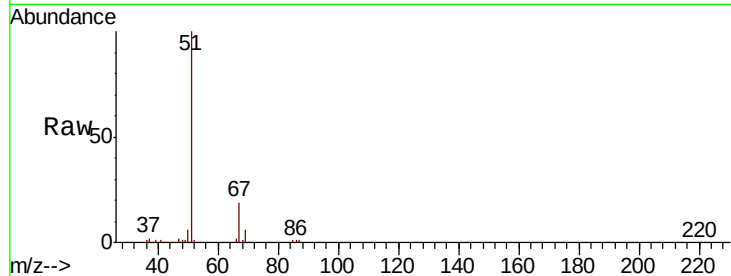
#3
Chlorodifluoromethane
Concen: 9.702 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.01 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1104603
Ion Ratio Lower Upper
51 100
67 18.2 13.8 20.8

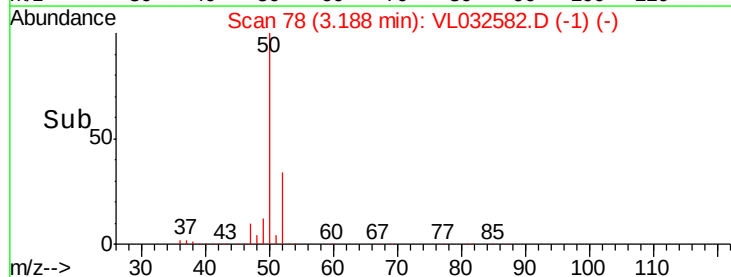
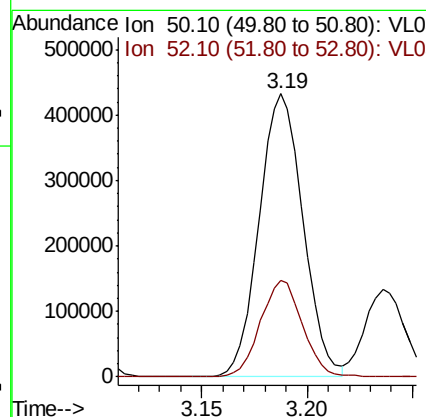
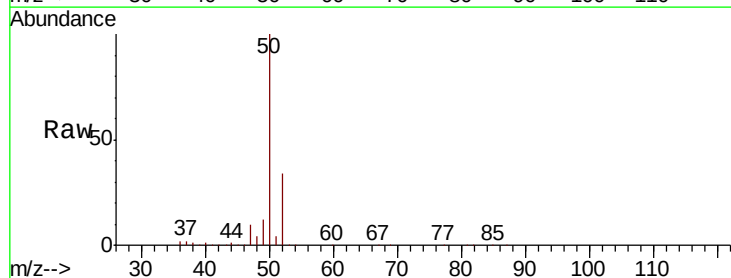
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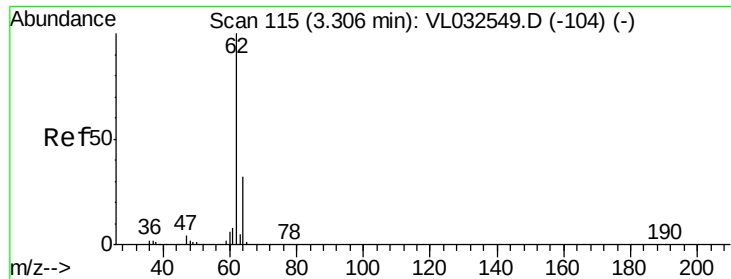
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#4
Chloromethane
Concen: 9.435 ppbv
RT: 3.19 min Scan# 78
Delta R.T. -0.01 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion: 50 Resp: 626374
Ion Ratio Lower Upper
50 100
52 33.9 25.6 38.4





#5

Vinyl Chloride

Concen: 9.771 ppbv

RT: 3.31 min Scan# 116

Delta R.T. -0.01 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010

Tot Ion: 62 Resp: 655474

Ion Ratio Lower Upper

62 100

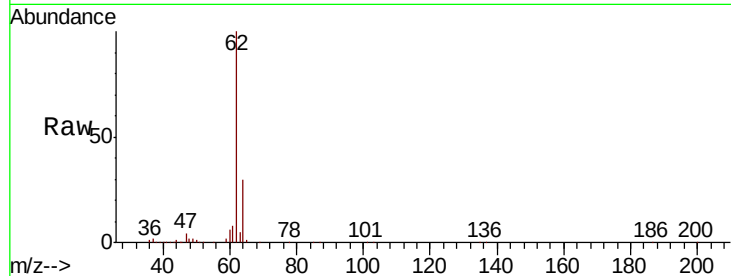
64 30.4 25.0 37.6

Manual Integrations

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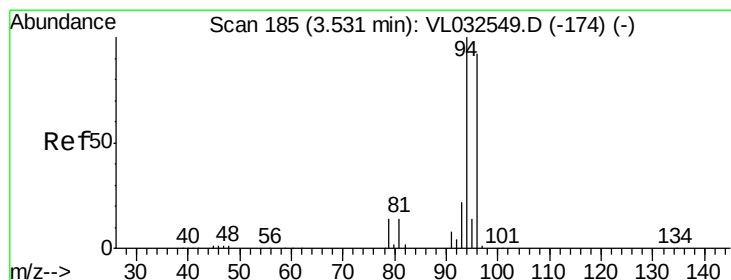
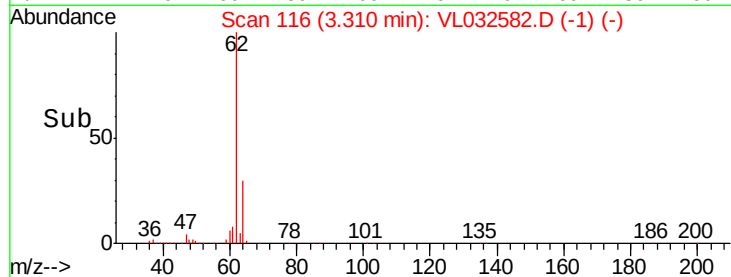
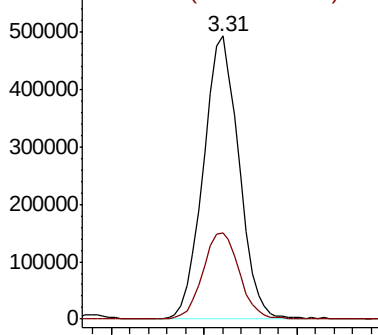
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.682 ppbv

RT: 3.53 min Scan# 185

Delta R.T. -0.02 min

Lab File: VL032582.D

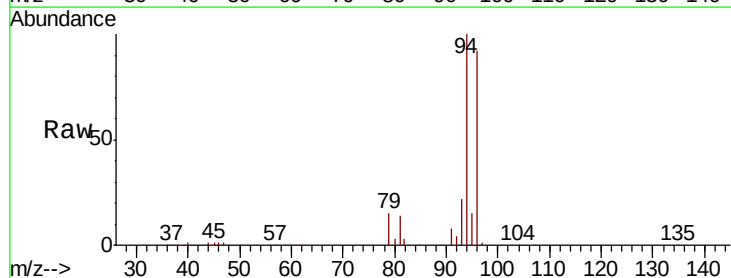
Acq: 3 Oct 2018 15:45

Tgt Ion: 94 Resp: 391887

Ion Ratio Lower Upper

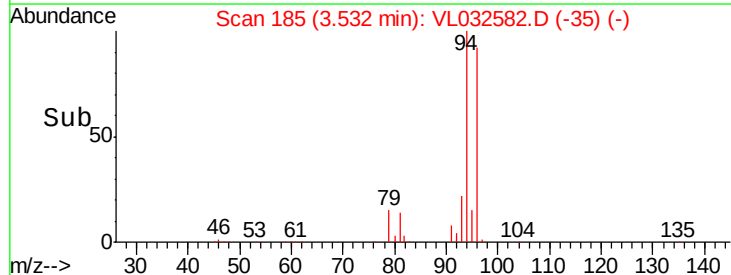
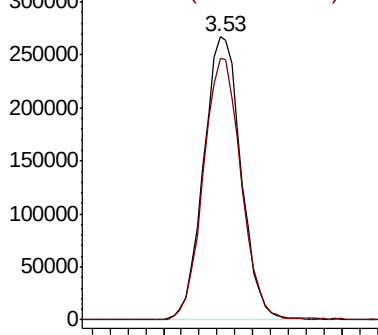
94 100

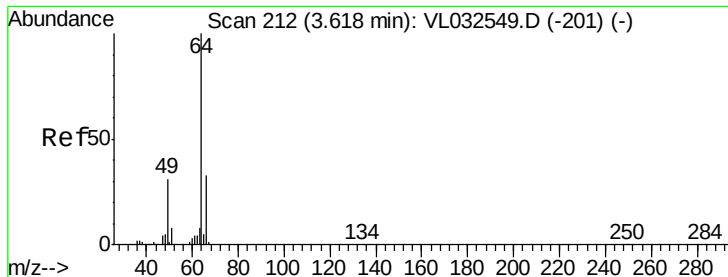
96 92.2 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.144 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 242453

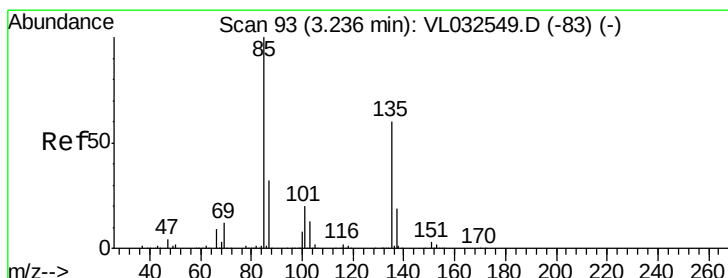
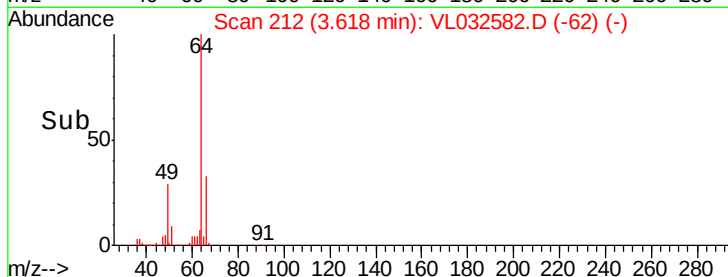
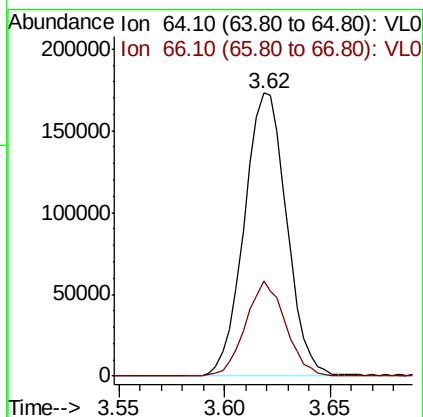
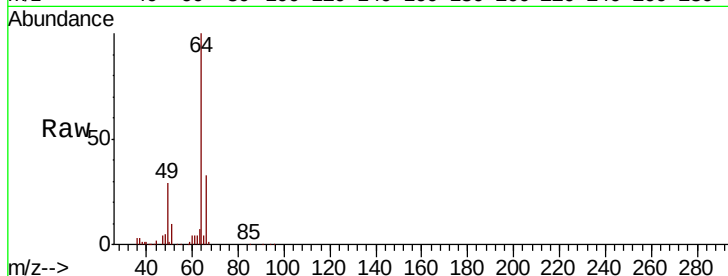
Ion Ratio Lower Upper

64 100

66 33.5 25.8 38.6

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#8

Dichlorotetrafluoroethane

Concen: 10.563 ppbv

RT: 3.24 min Scan# 93

Delta R.T. -0.02 min

Lab File: VL032582.D

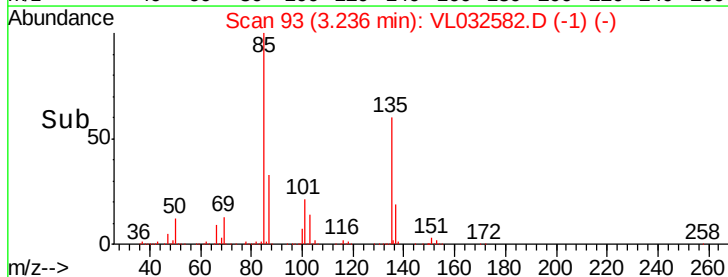
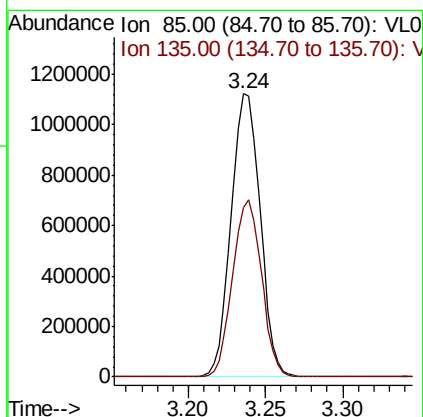
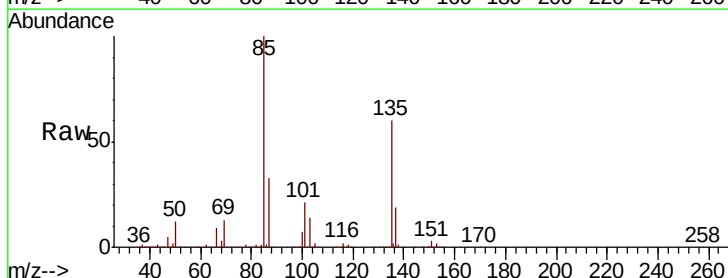
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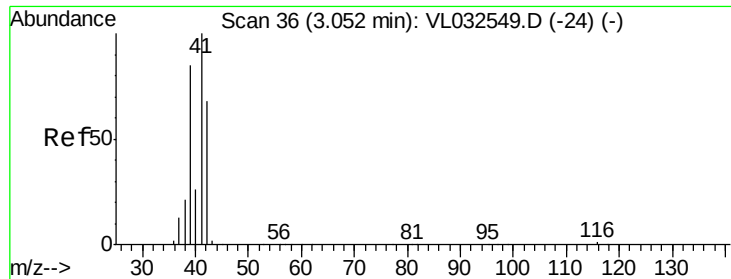
Tgt Ion: 85 Resp: 1461444

Ion Ratio Lower Upper

85 100

135 62.5 48.6 72.8





#9

Propene

Concen: 9.329 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

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ClientSampleId :

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Tot Ion: 41 Resp: 460844

Ion Ratio Lower Upper

41 100

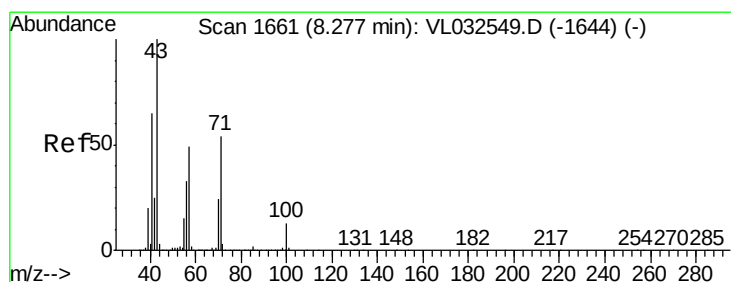
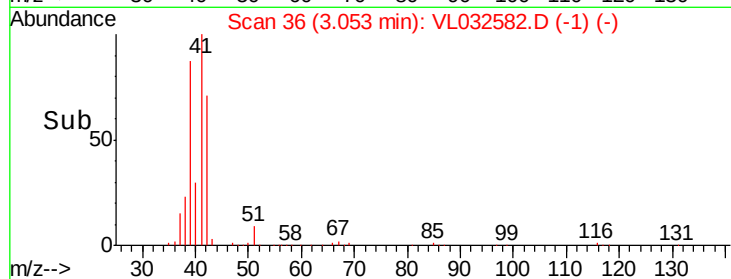
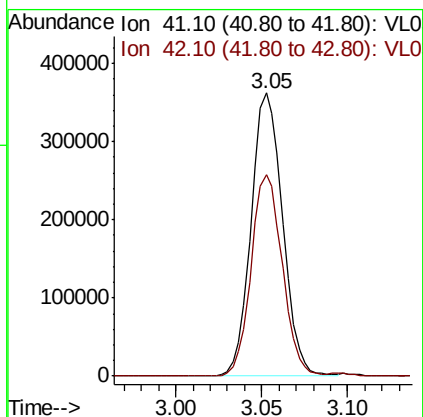
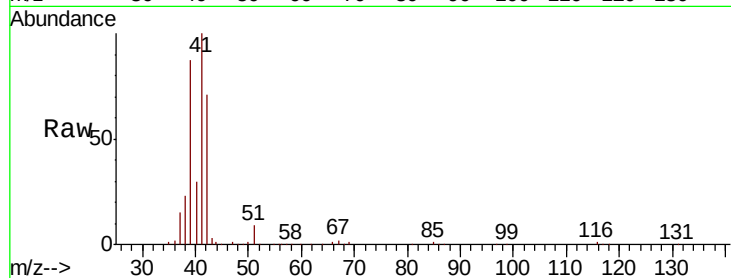
42 71.1 56.6 84.8

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#10

Heptane

Concen: 10.260 ppbv

RT: 8.28 min Scan# 1661

Delta R.T. -0.02 min

Lab File: VL032582.D

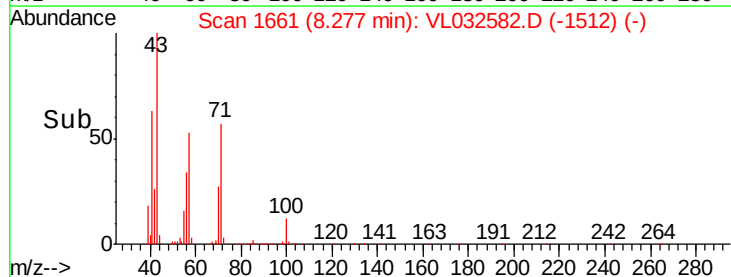
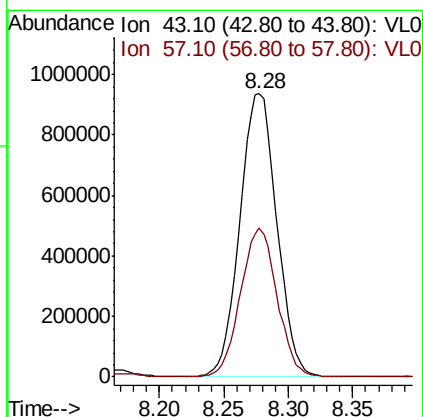
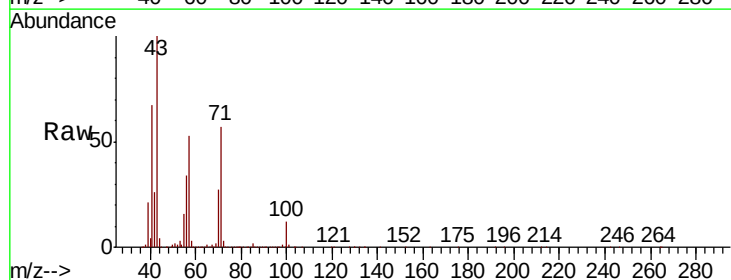
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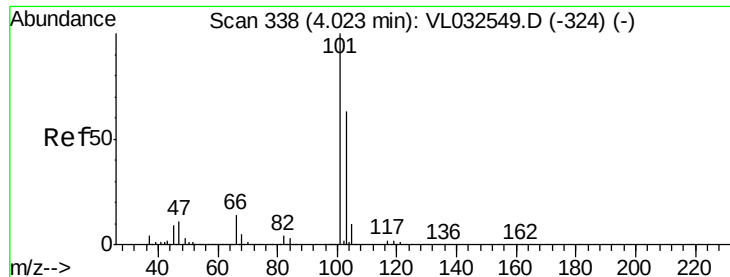
Tgt Ion: 43 Resp: 1859063

Ion Ratio Lower Upper

43 100

57 51.7 39.6 59.4





#11

Trichlorofluoromethane

Concen: 10.394 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

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ClientSampleId :

VSTDCCC010

Tot Ion:101 Resp: 1564650

Ion Ratio Lower Upper

101 100

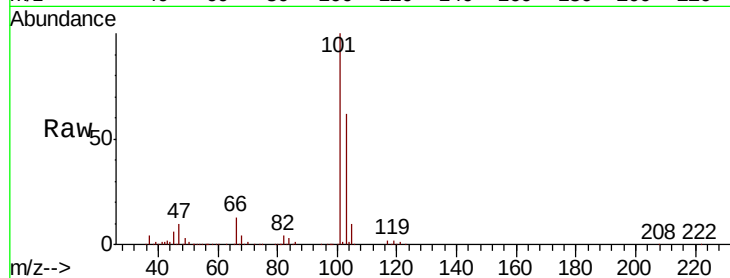
103 62.5 52.8 79.2

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1200000

1000000

800000

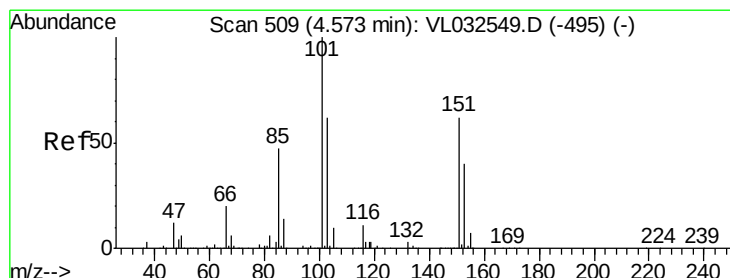
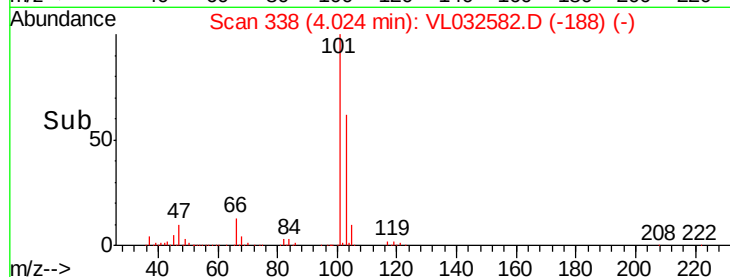
600000

400000

200000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.072 ppbv

RT: 4.58 min Scan# 510

Delta R.T. -0.02 min

Lab File: VL032582.D

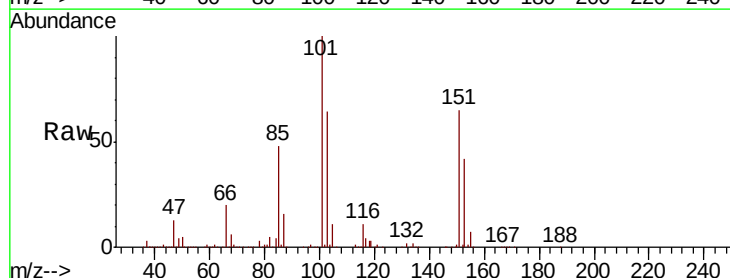
Acq: 3 Oct 2018 15:45

Tgt Ion:101 Resp: 1116345

Ion Ratio Lower Upper

101 100

151 65.6 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

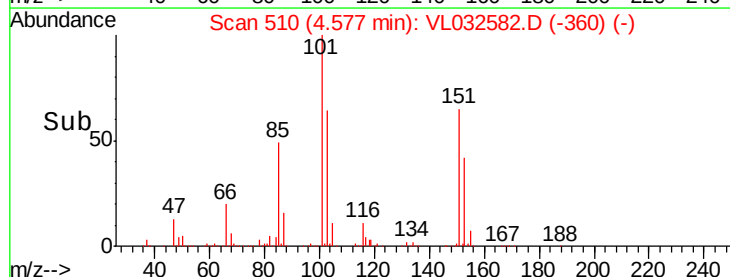
600000

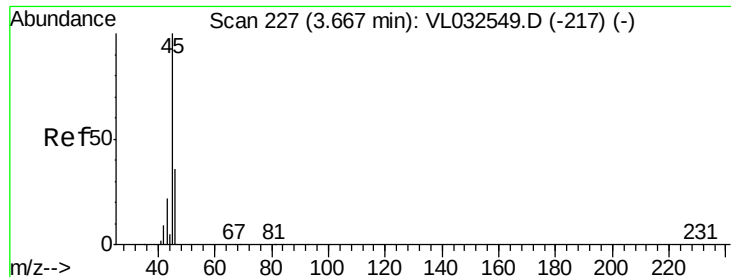
400000

200000

0

Time-->





#13

Ethanol

Concen: 9.253 ppbv

RT: 3.67 min Scan# 227

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 137389

Ion Ratio Lower Upper

45 100

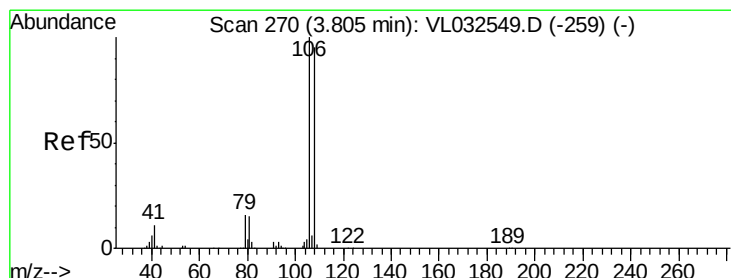
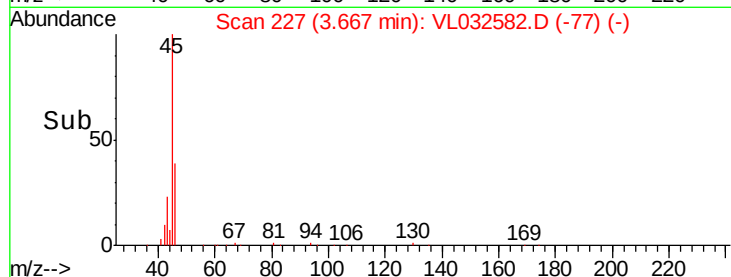
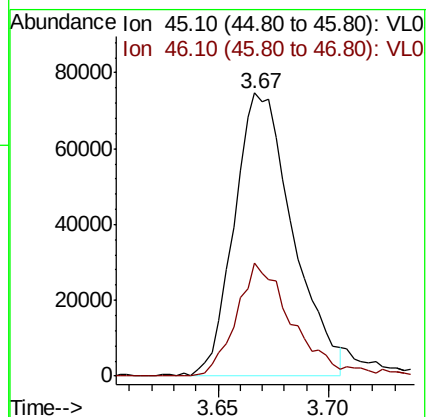
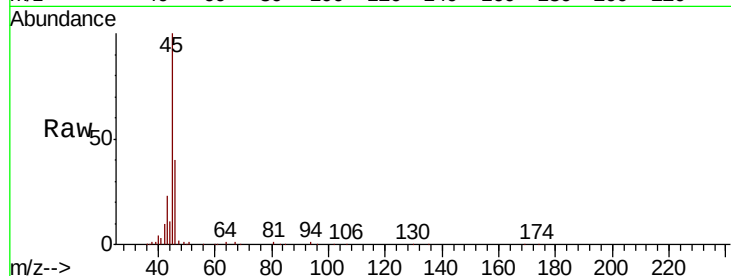
46 39.3 14.2 56.8

Manual Integrations

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MMDadoda

10/4/2018 7:07:03 PM



#14

Bromoethene

Concen: 10.792 ppbv

RT: 3.81 min Scan# 271

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

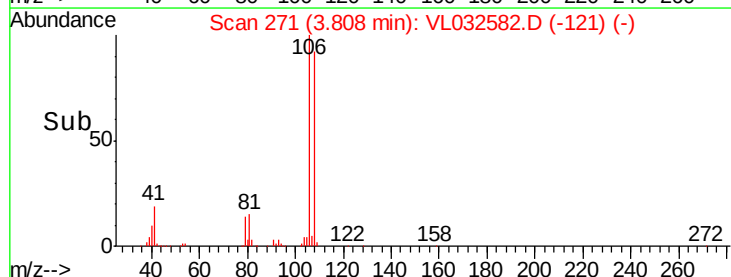
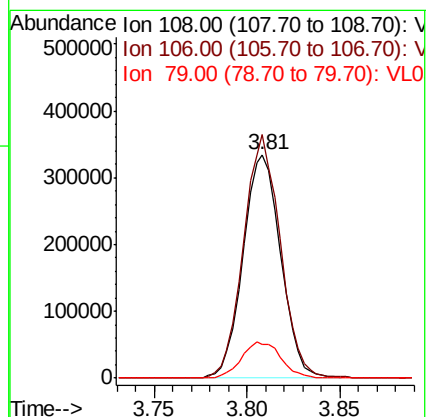
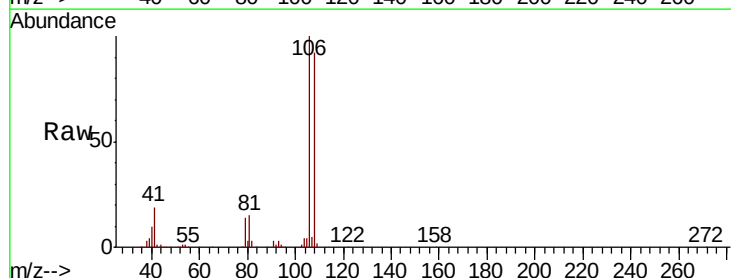
Tgt Ion: 108 Resp: 471225

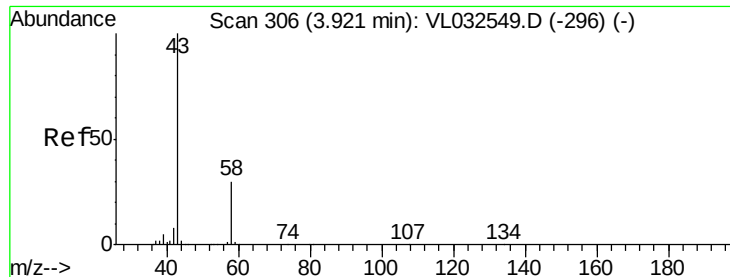
Ion Ratio Lower Upper

108 100

106 107.2 85.5 128.3

79 17.2 13.0 19.6





#15

Acetone

Concen: 9.427 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1132951

Ion Ratio Lower Upper

43 100

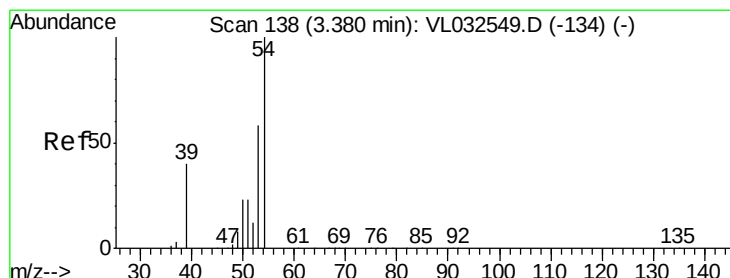
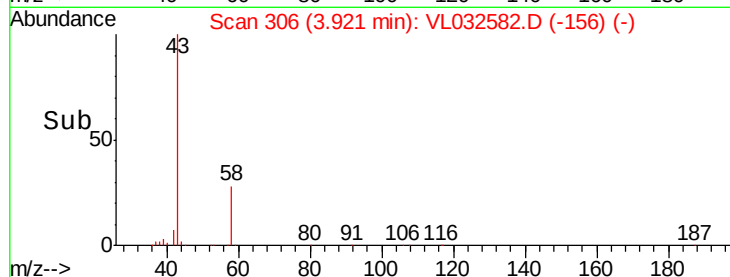
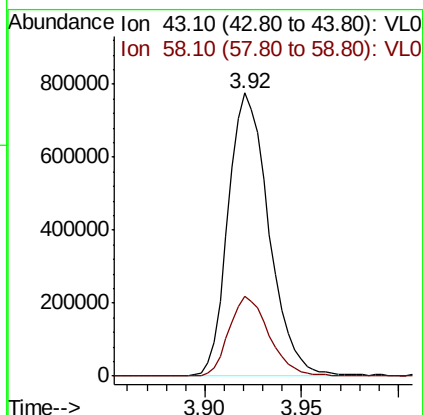
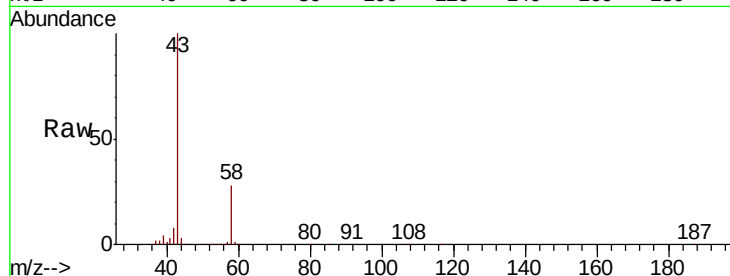
58 27.8 22.6 33.8

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.862 ppbv

RT: 3.38 min Scan# 138

Delta R.T. -0.02 min

Lab File: VL032582.D

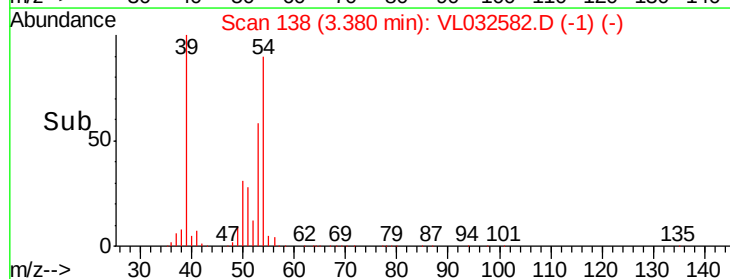
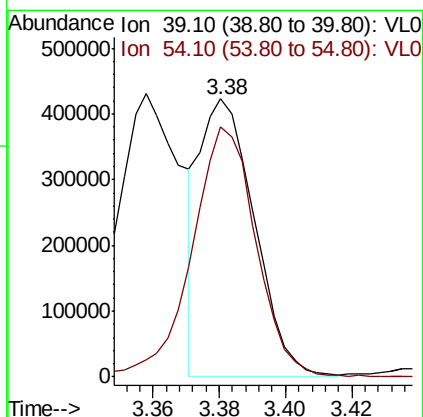
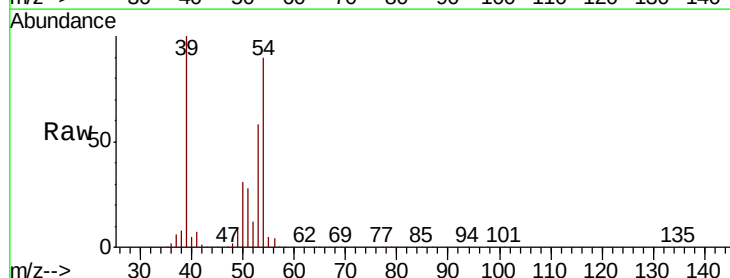
Acq: 3 Oct 2018 15:45

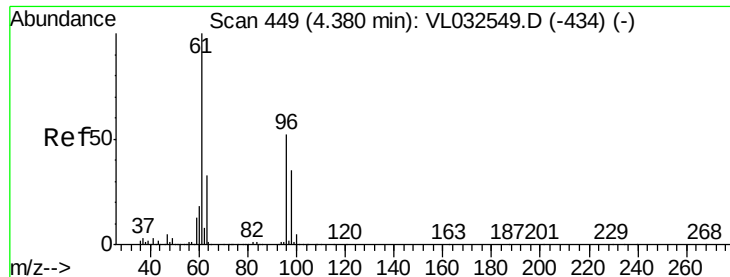
Tgt Ion: 39 Resp: 480662

Ion Ratio Lower Upper

39 100

54 107.1 80.8 121.2





#17

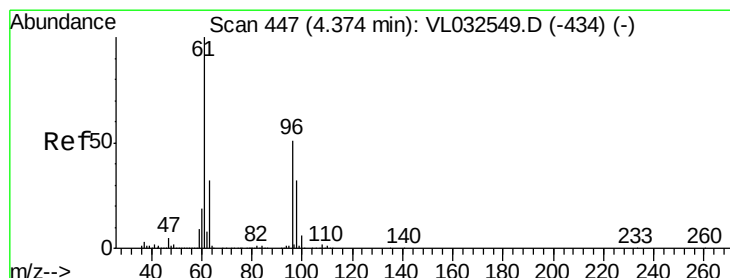
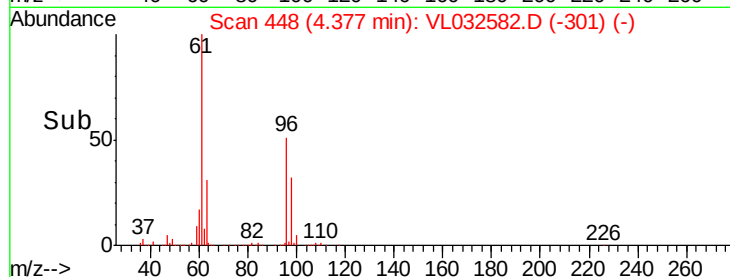
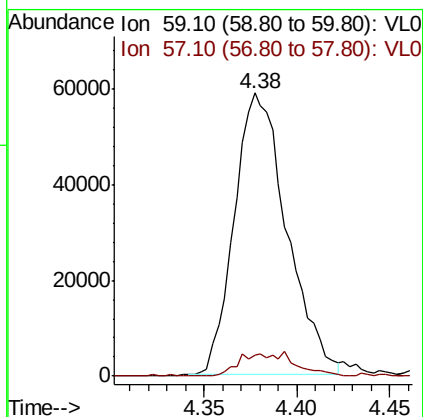
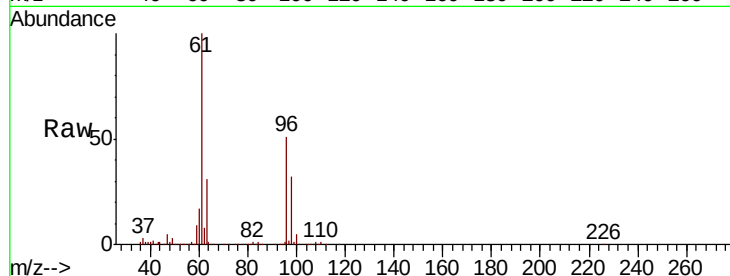
tert-Butyl alcohol
Concen: 7.687 ppbv
RT: 4.38 min Scan# 448
Delta R.T. -0.03 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.8	0.0	0.0#

Manual Integrations
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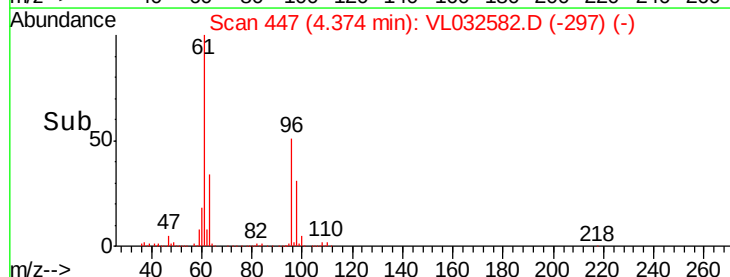
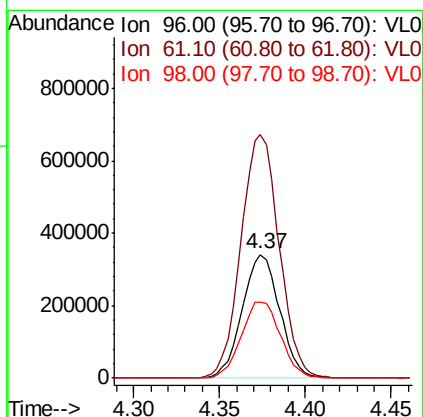
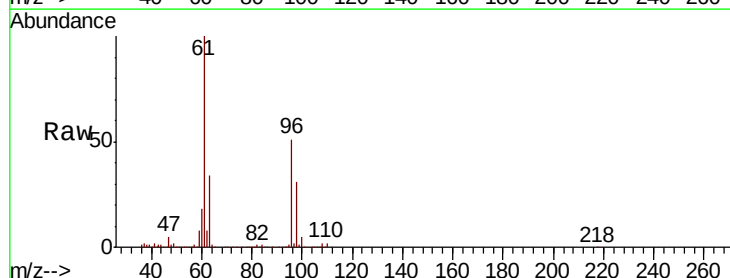
MMDadoda
10/4/2018 7:07:03 PM

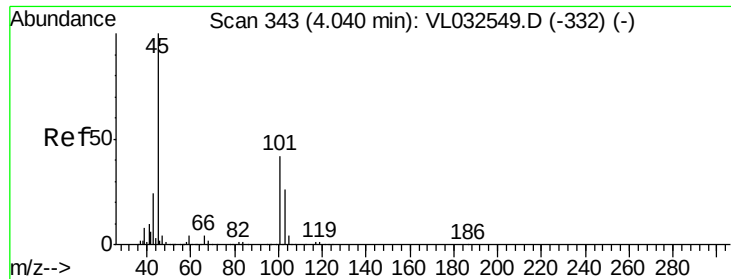


#18

1,1-Dichloroethene
Concen: 8.977 ppbv
RT: 4.37 min Scan# 447
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	196.9	159.2	238.8
98	61.5	51.0	76.4





#19

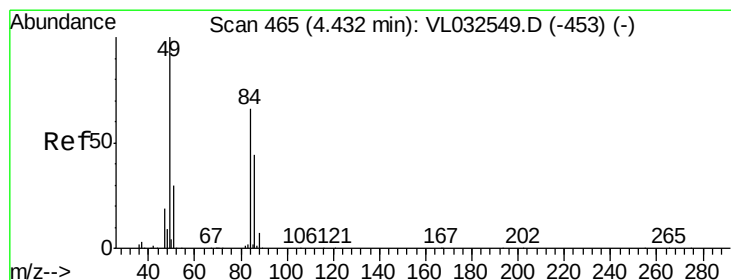
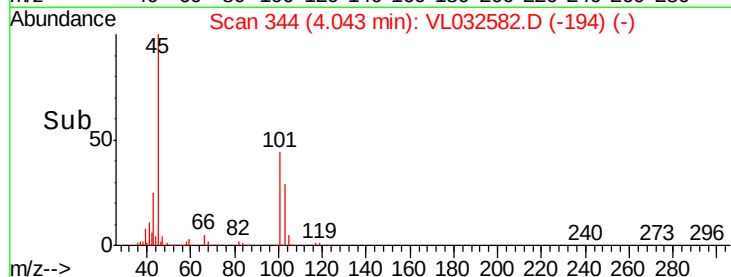
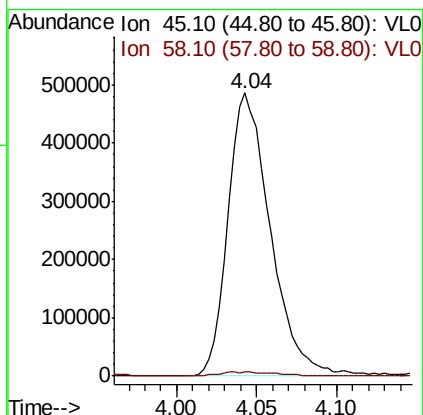
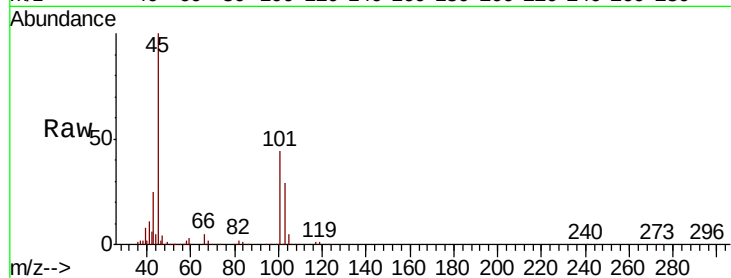
Isopropyl Alcohol
 Concen: 10.405 ppbv
 RT: 4.04 min Scan# 344
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	45	Resp	871036
Ion Ratio	100	Lower	Upper
45	100		
58	2.2	2.0	3.0

Manual Integrations
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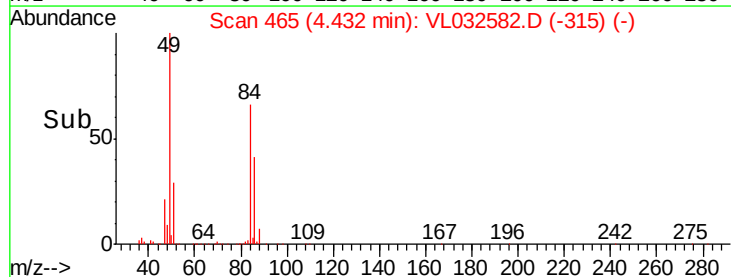
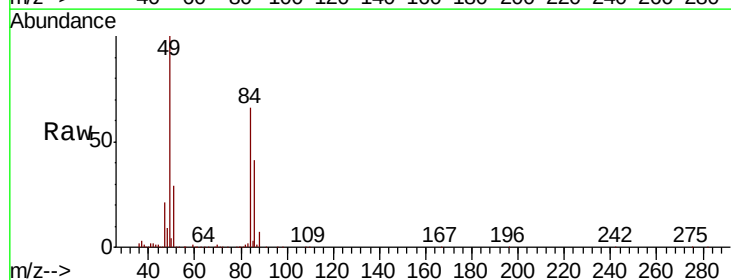
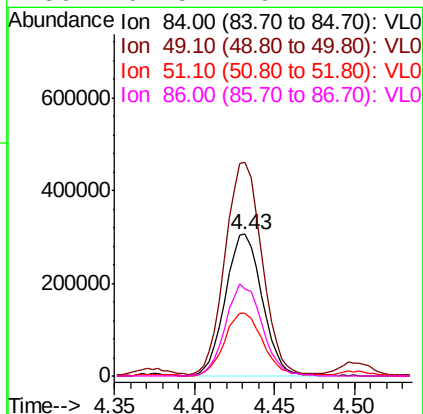
MMDadoda
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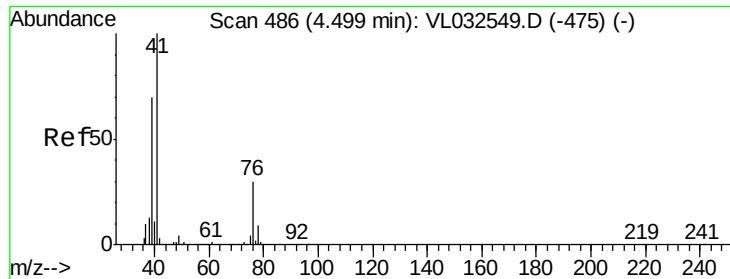


#20

Methylene Chloride
 Concen: 8.161 ppbv
 RT: 4.43 min Scan# 465
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Tgt Ion	84	Resp	474919
Ion Ratio	100	Lower	Upper
84	100		
49	150.4	119.1	178.7
51	43.6	35.2	52.8
86	61.5	49.4	74.2





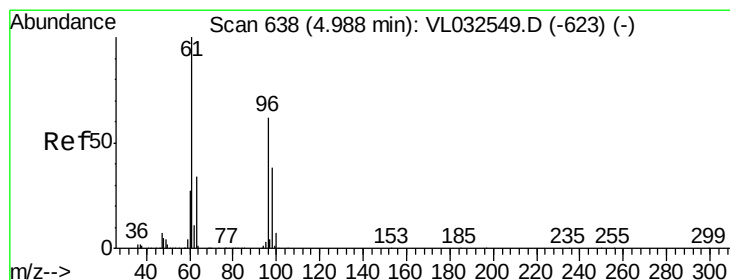
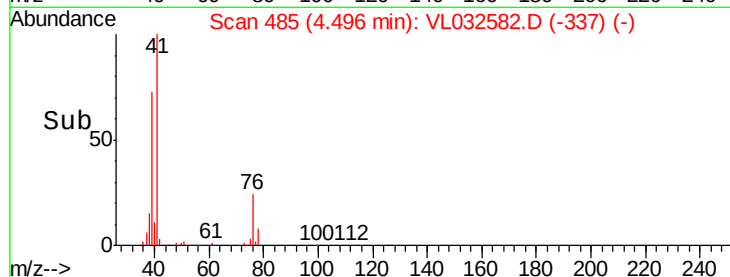
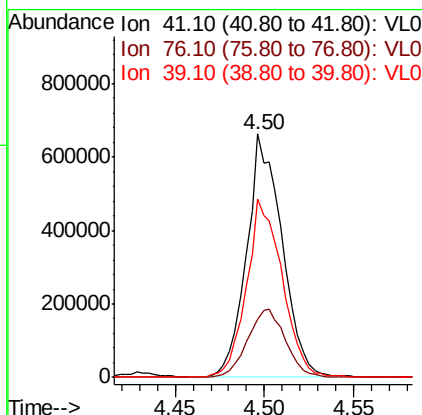
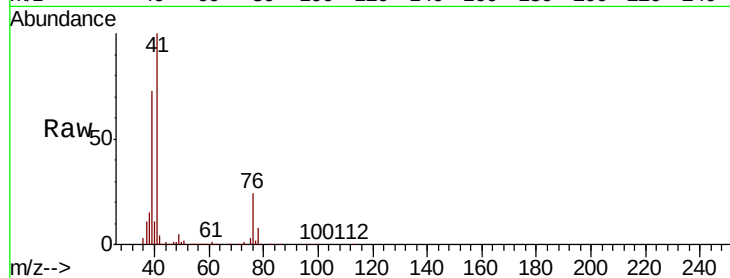
#21
Allvl Chloride
Concen: 9.309 ppbv
RT: 4.50 min Scan# 485
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.2	23.6	35.4
39	74.4	57.7	86.5

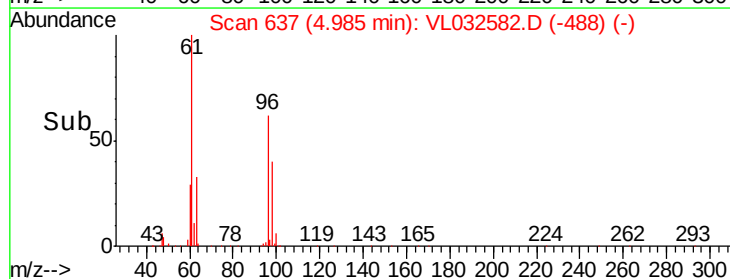
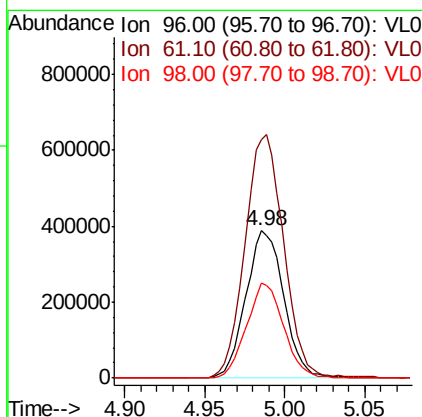
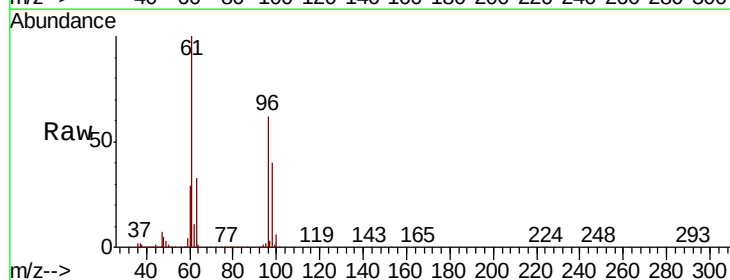
Manual Integrations
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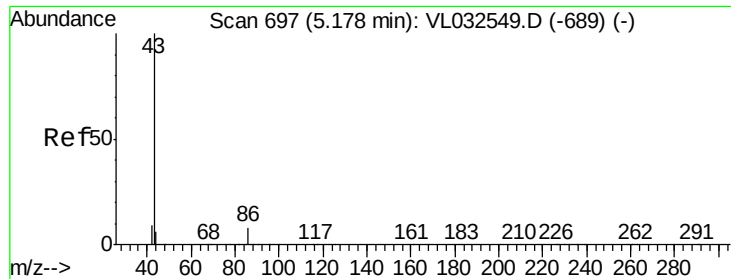
MMDadoda
10/4/2018 7:07:03 PM



#22
trans-1,2-Dichloroethene
Concen: 11.612 ppbv
RT: 4.98 min Scan# 637
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.0	136.2	204.4
98	64.5	50.4	75.6





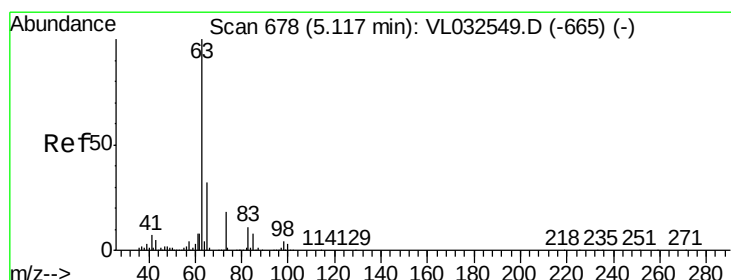
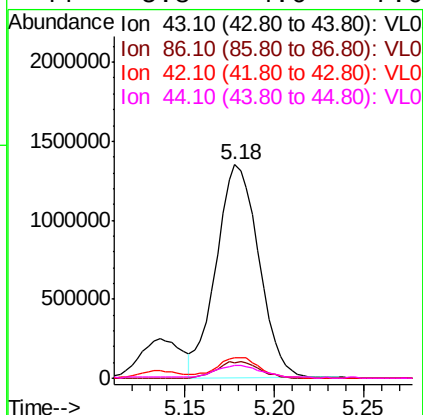
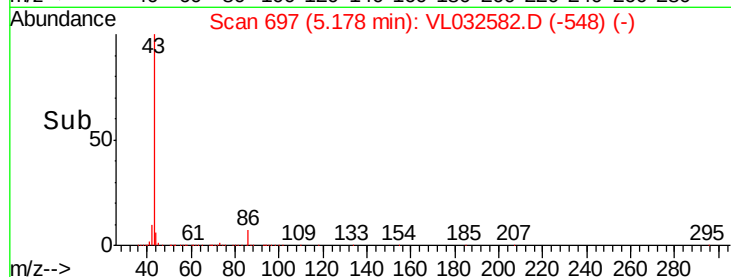
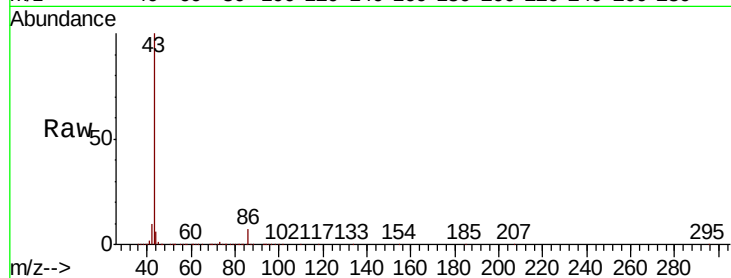
#23
 Vinyl Acetate
 Concen: 10.509 ppbv
 RT: 5.18 min Scan# 697
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.4	5.9	8.9	
42	9.7	6.9	10.3	
44	5.8	4.6	7.0	

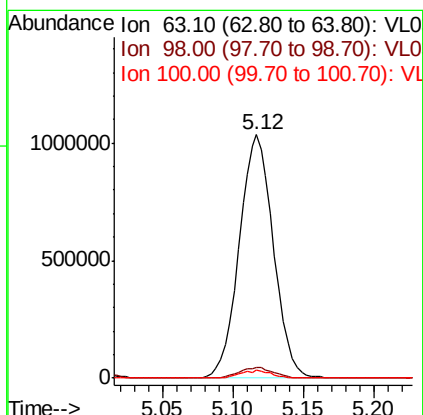
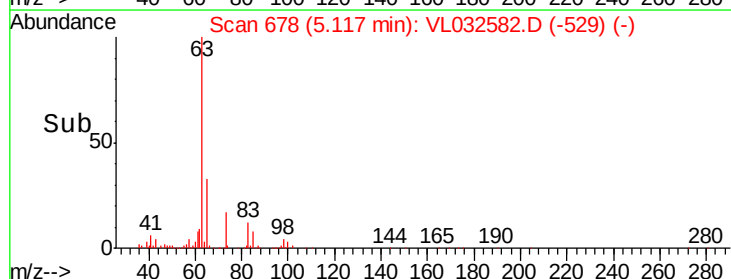
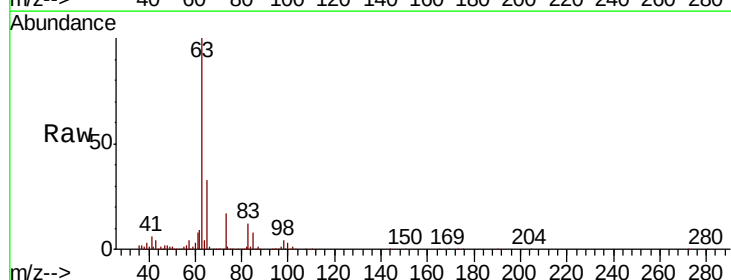
Manual Integrations
 APPROVED

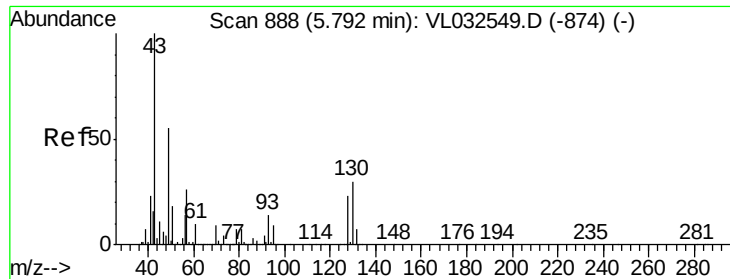
MMDadoda
 10/4/2018 7:07:03 PM



#24
 1,1-Dichloroethane
 Concen: 9.879 ppbv
 RT: 5.12 min Scan# 678
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.3	2.1	6.5	
100	3.2	1.5	4.4	





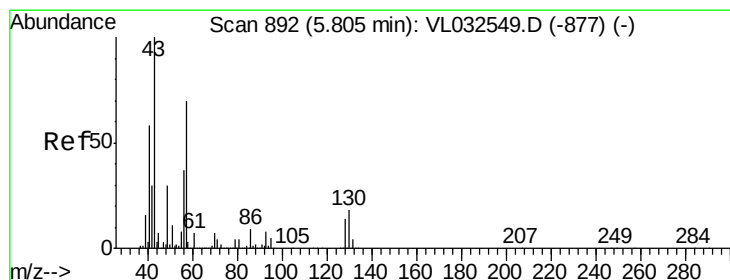
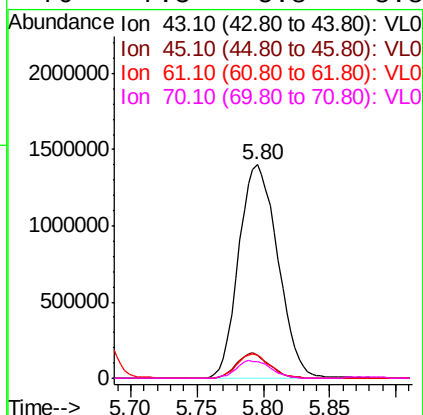
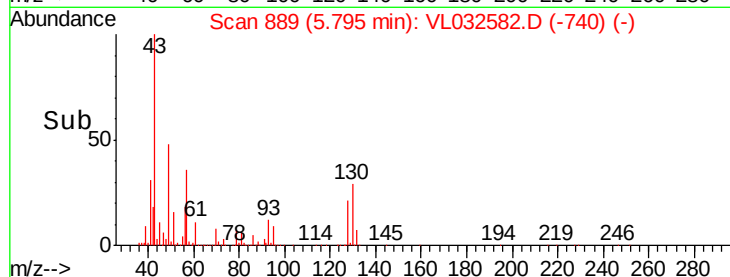
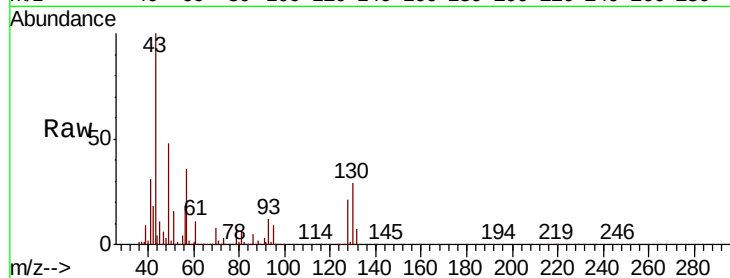
#25
Ethyl Acetate
Concen: 9.866 ppbv
RT: 5.80 min Scan# 889
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	8.0	12.0	
61	9.6	7.6	11.4	
70	7.3	5.8	8.8	

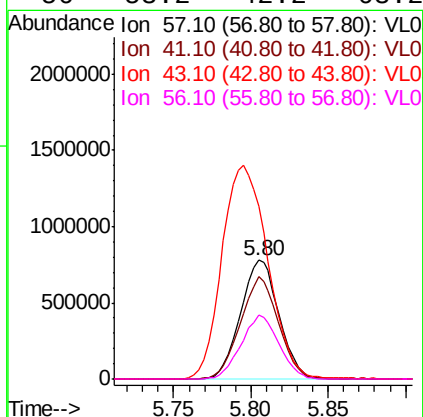
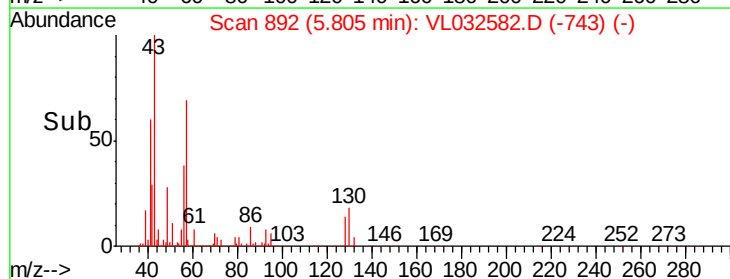
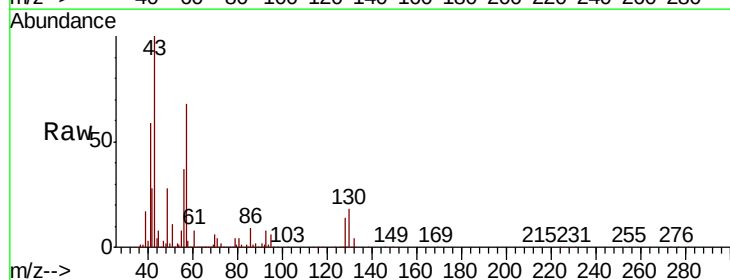
Manual Integrations
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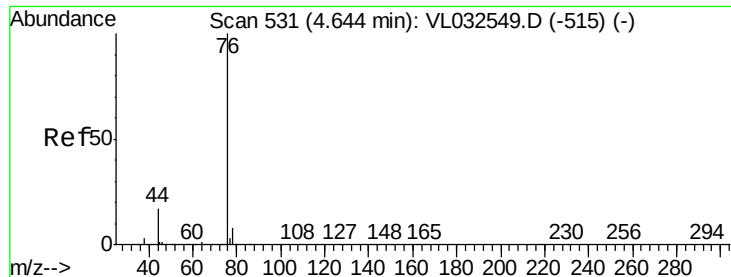
MMDadoda
10/4/2018 7:07:03 PM



#26
Hexane
Concen: 10.185 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	85.3	69.0	103.4	
43	214.9	172.1	258.1	
56	53.2	42.2	63.2	





#27

Carbon Disulfide

Concen: 9.890 ppbv

RT: 4.64 min Scan# 531

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

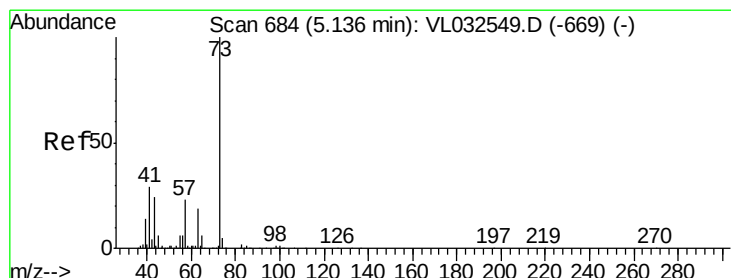
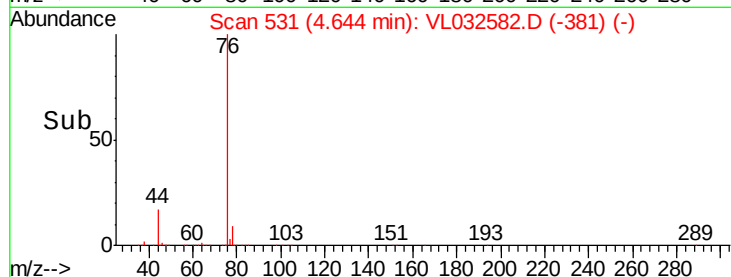
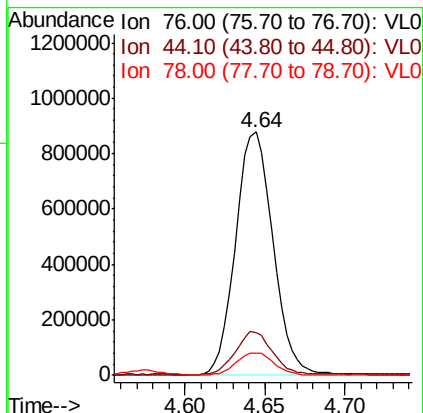
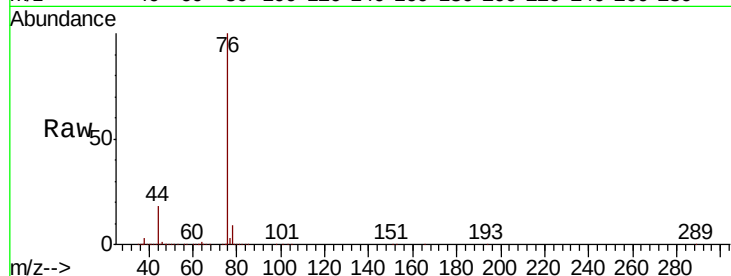
ClientSampleId :

VSTDCCC010

Tot Ion:	76	Resp:	1400451
Ion	Ratio	Lower	Upper
76	100		
44	17.0	14.0	21.0
78	9.2	7.5	11.3

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 11.021 ppbv

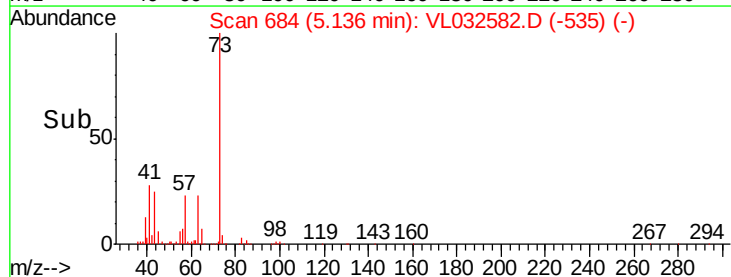
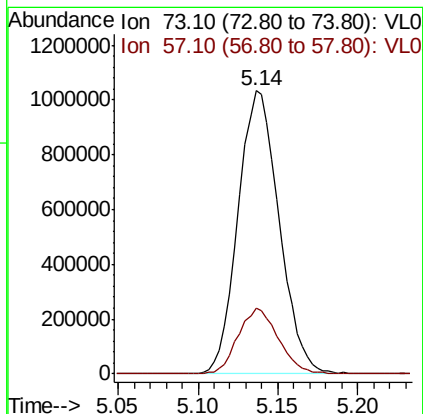
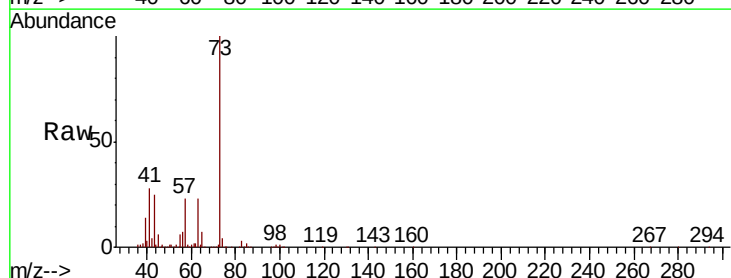
RT: 5.14 min Scan# 684

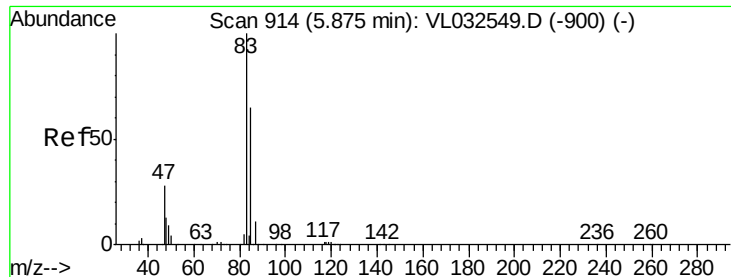
Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Tgt Ion:	73	Resp:	1808379
Ion	Ratio	Lower	Upper
73	100		
57	23.0	19.3	28.9





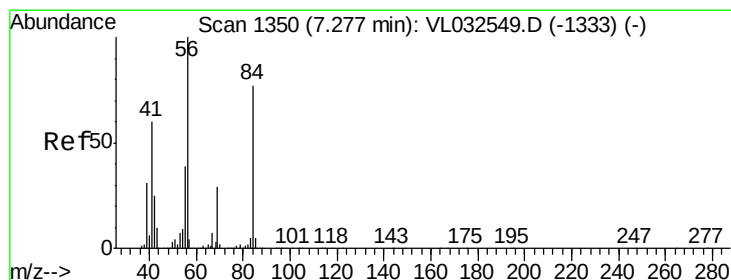
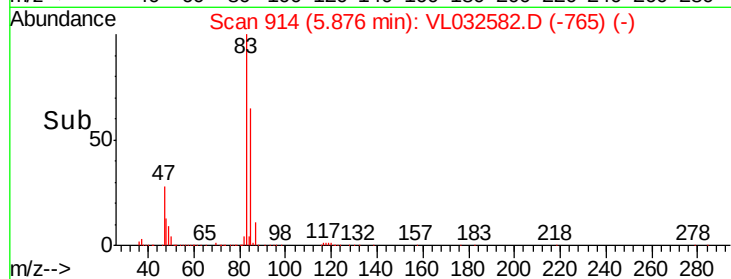
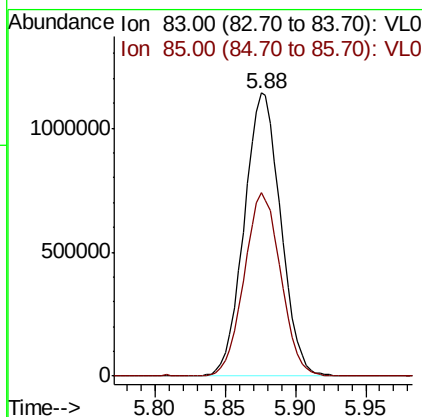
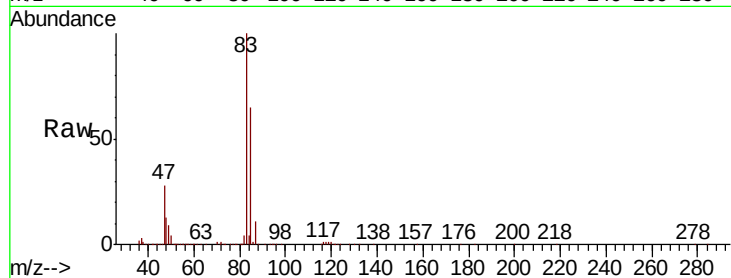
#29
Chloroform
Concen: 10.248 ppbv
RT: 5.88 min Scan# 914
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2071180
Ion Ratio Lower Upper
83 100
85 64.6 52.5 78.7

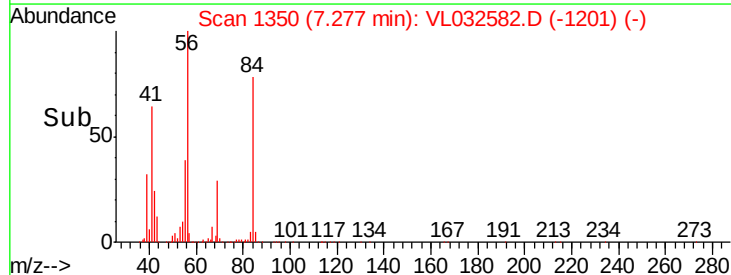
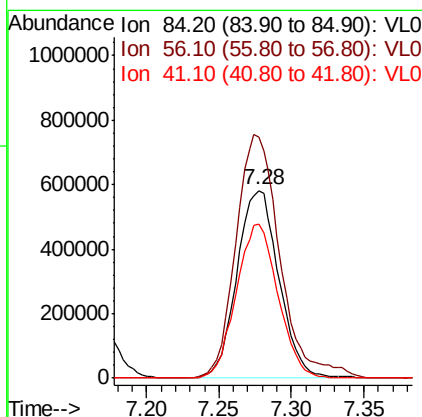
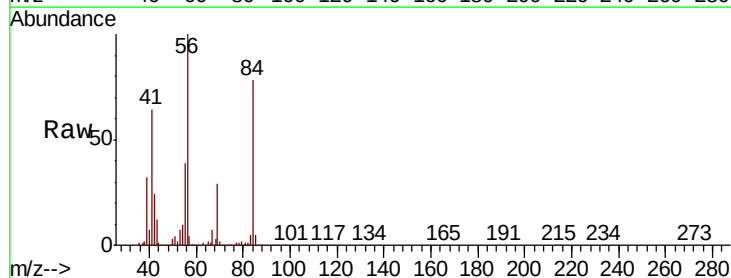
Manual Integrations
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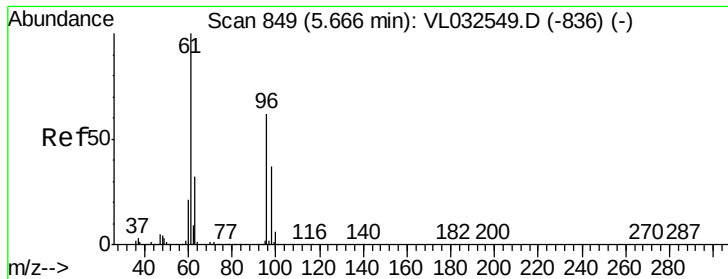
MMDadoda
10/4/2018 7:07:03 PM



#30
Cyclohexane
Concen: 10.896 ppbv
RT: 7.28 min Scan# 1350
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion: 84 Resp: 1168649
Ion Ratio Lower Upper
84 100
56 136.7 113.5 170.3
41 81.7 68.1 102.1





#31

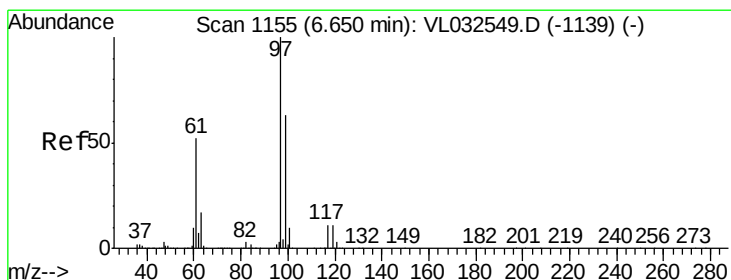
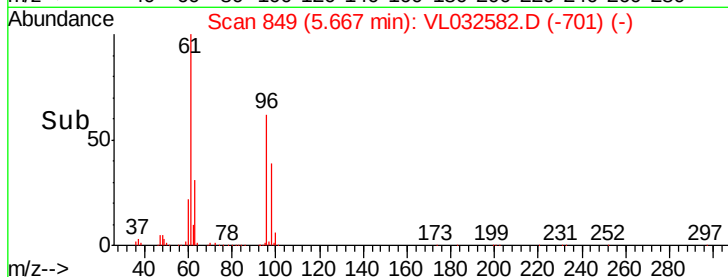
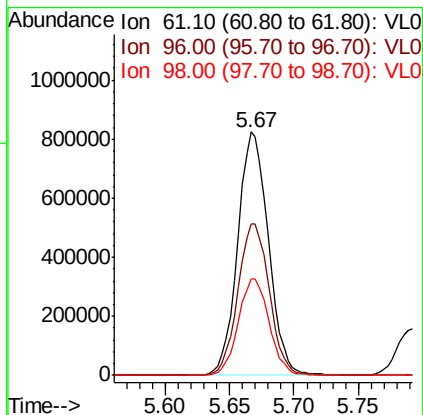
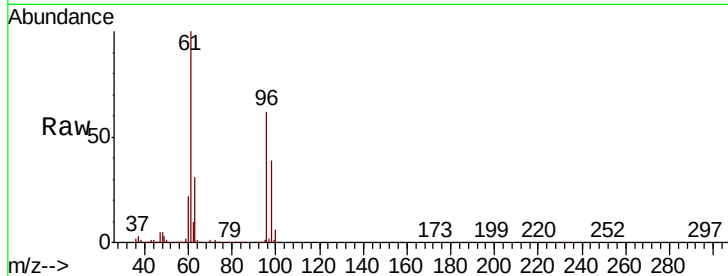
cis-1,2-Dichloroethene
Concen: 10.867 ppbv
RT: 5.67 min Scan# 849
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.3	49.2	73.8
98	39.5	30.7	46.1

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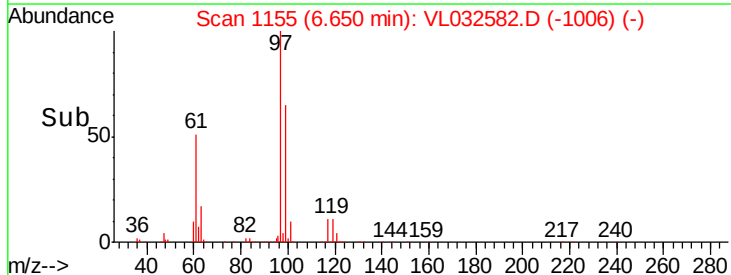
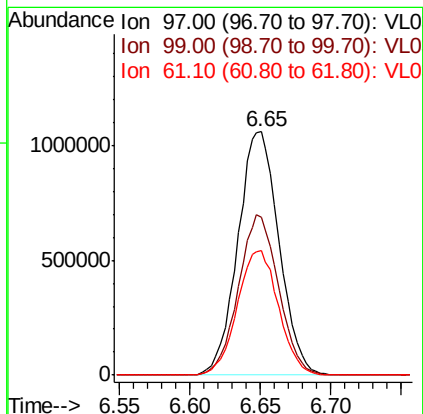
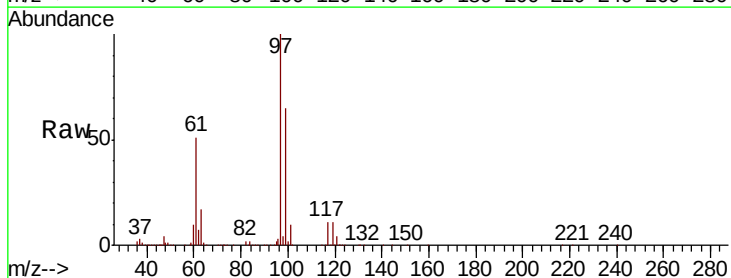
MMDadoda
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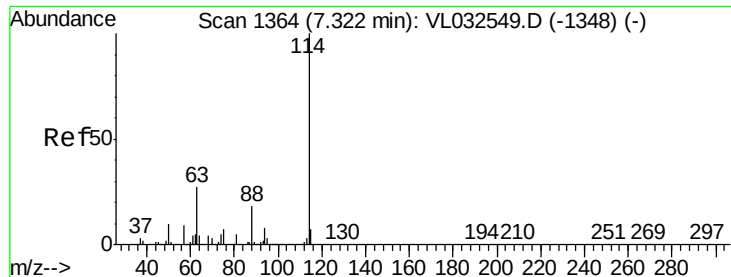


#32

1,1,1-Trichloroethane
Concen: 10.061 ppbv
RT: 6.65 min Scan# 1155
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.1	78.1
61	51.1	42.5	63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.33 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 3202431

Ion Ratio Lower Upper

114 100

63 27.3 22.2 33.4

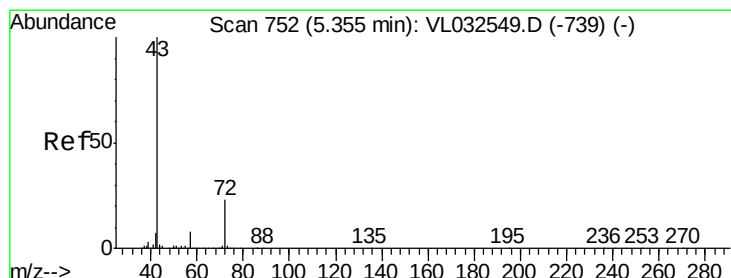
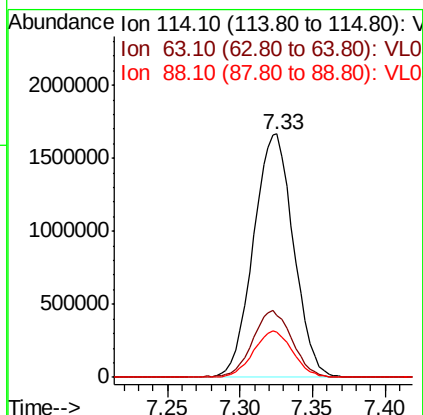
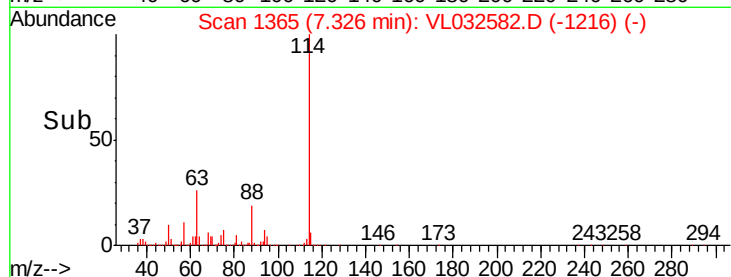
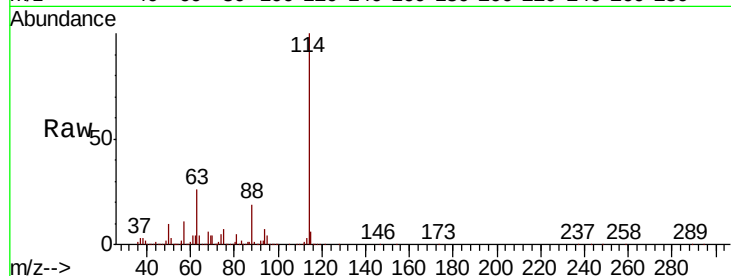
88 18.7 15.0 22.4

Manual Integrations

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#34

2-Butanone

Concen: 9.678 ppbv

RT: 5.35 min Scan# 752

Delta R.T. -0.02 min

Lab File: VL032582.D

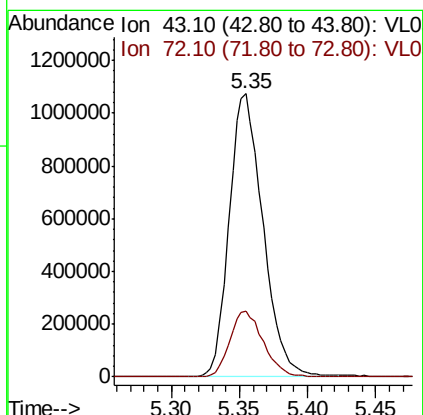
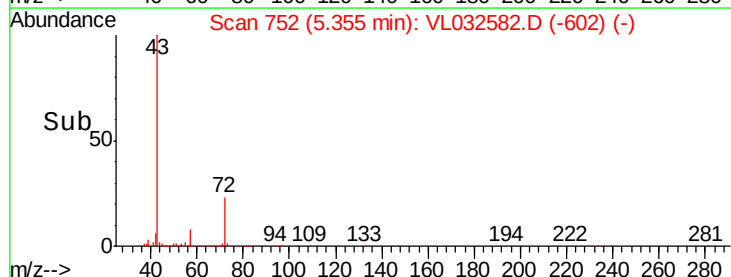
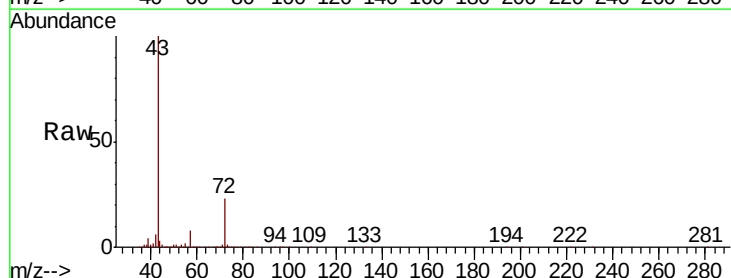
Acq: 3 Oct 2018 15:45

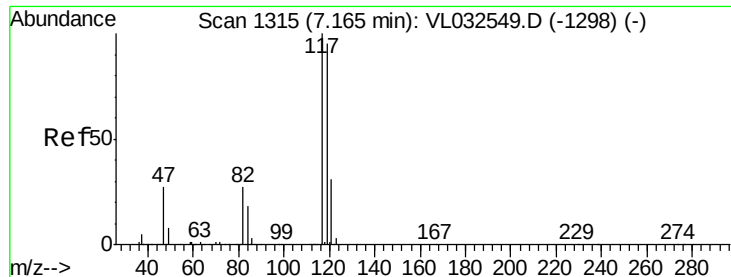
Tgt Ion: 43 Resp: 1845541

Ion Ratio Lower Upper

43 100

72 23.1 17.8 26.6





#35

Carbon Tetrachloride

Concen: 9.956 ppbv

RT: 7.16 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2215602

Ion Ratio Lower Upper

117 100

119 92.6 76.6 115.0

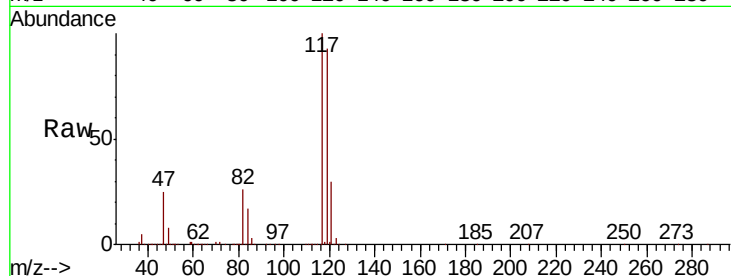
121 30.0 24.6 36.8

Manual Integrations

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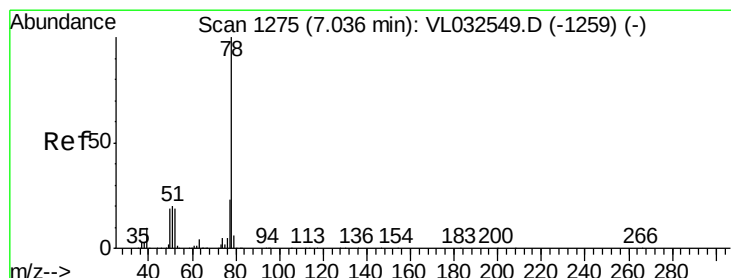
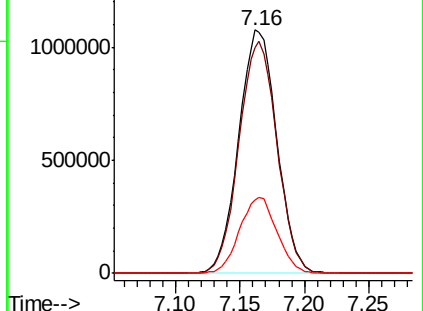
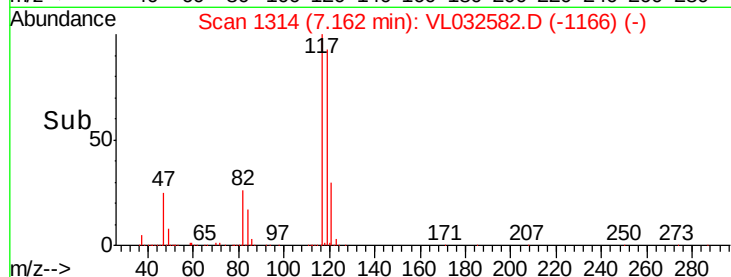
10/4/2018 7:07:03 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.998 ppbv

RT: 7.04 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

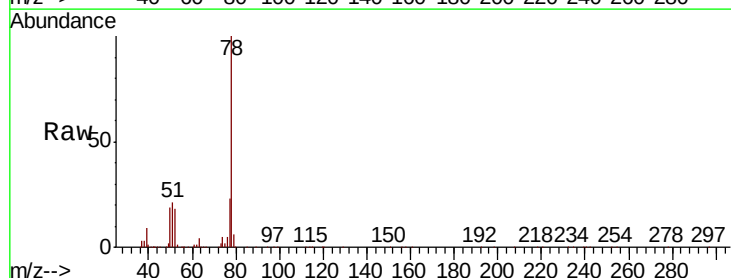
Tgt Ion: 78 Resp: 2846346

Ion Ratio Lower Upper

78 100

77 23.1 18.4 27.6

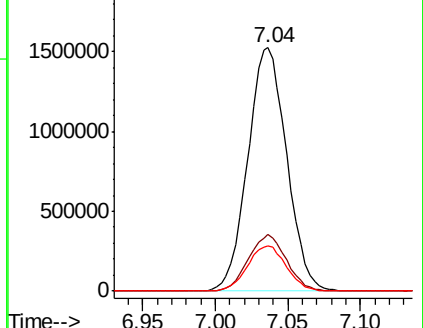
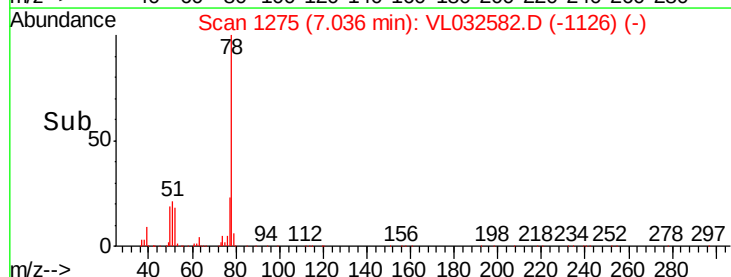
50 18.7 14.4 21.6

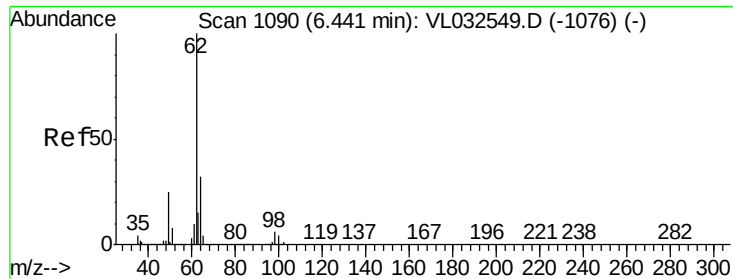


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.755 ppbv

RT: 6.44 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 1677480

Ion Ratio Lower Upper

62 100

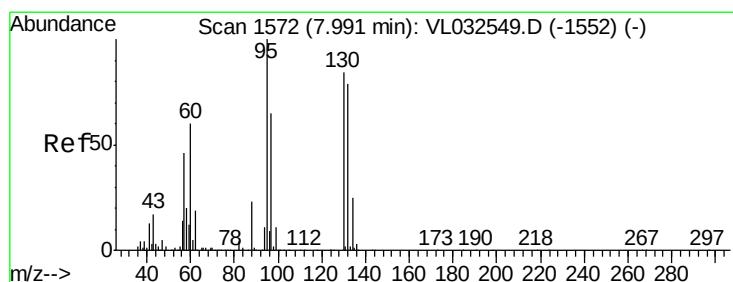
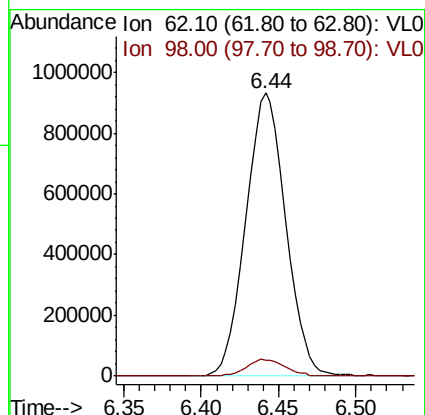
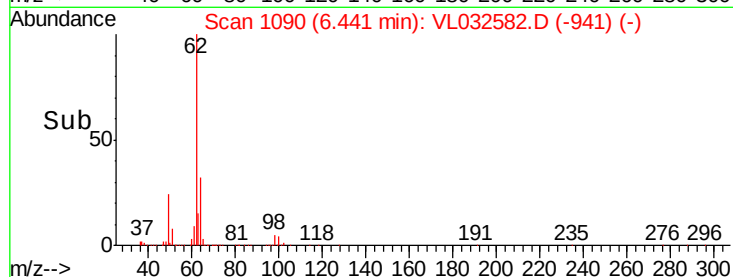
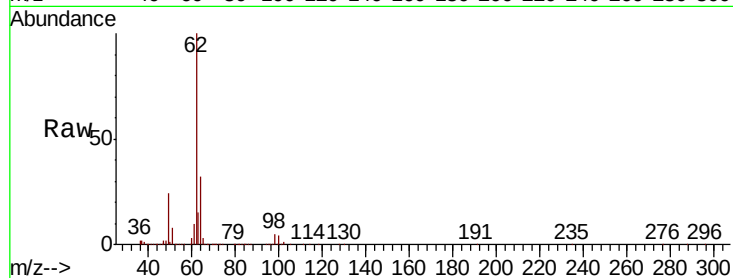
98 5.8 5.0 7.6

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#38

Trichloroethene

Concen: 10.779 ppbv

RT: 7.99 min Scan# 1572

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Tgt Ion: 130 Resp: 1067789

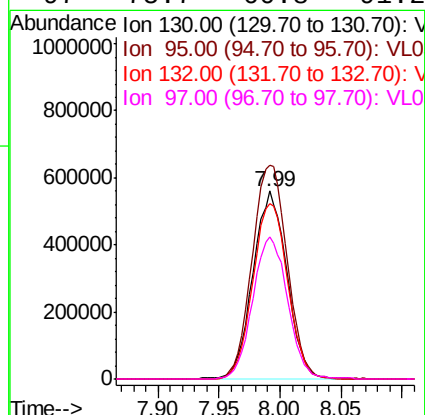
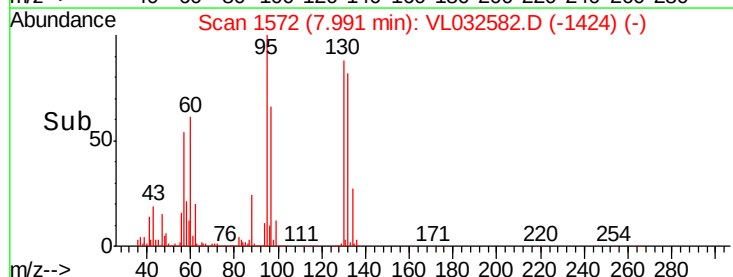
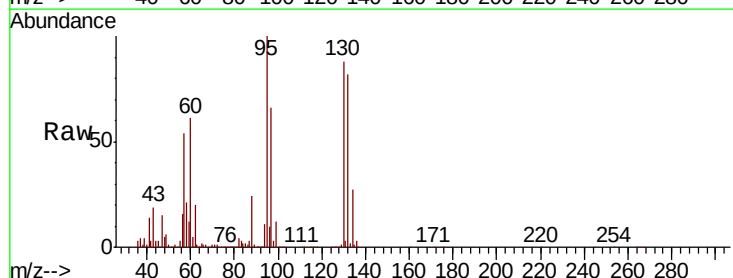
Ion Ratio Lower Upper

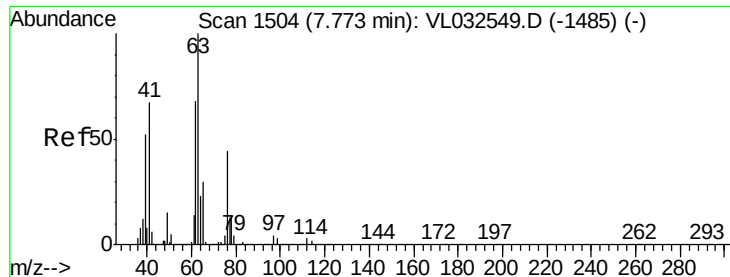
130 100

95 113.9 94.2 141.4

132 93.6 76.2 114.4

97 75.7 60.8 91.2





#39

1,2-Dichloropropane

Concen: 9.969 ppbv

RT: 7.77 min Scan# 1502

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1162712

Ion Ratio Lower Upper

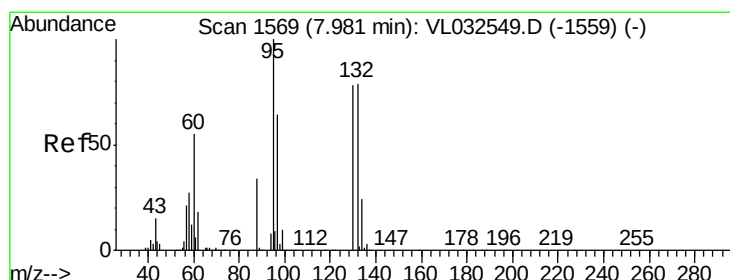
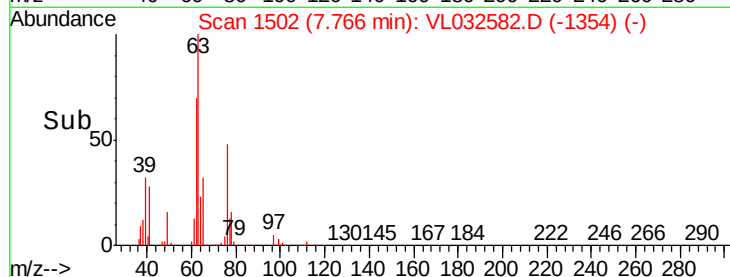
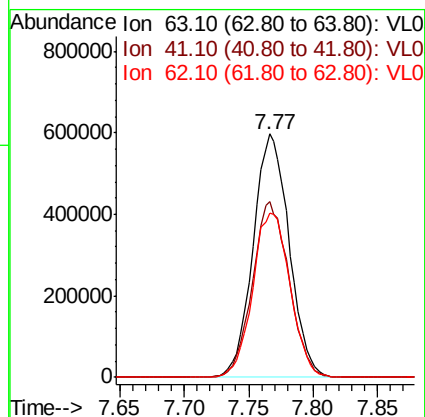
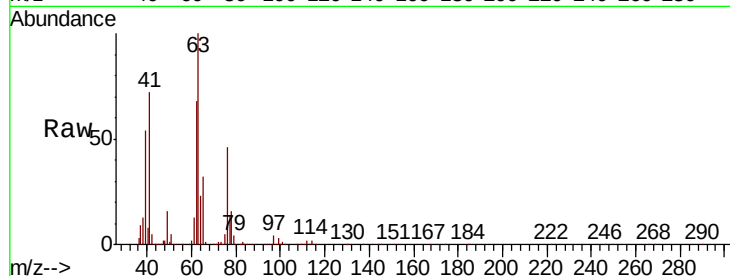
63 100

41 72.3 55.4 83.0

62 67.7 55.4 83.0

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#40

1,4-Dioxane

Concen: 11.340 ppbv

RT: 7.98 min Scan# 1570

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Tgt Ion: 88 Resp: 405515

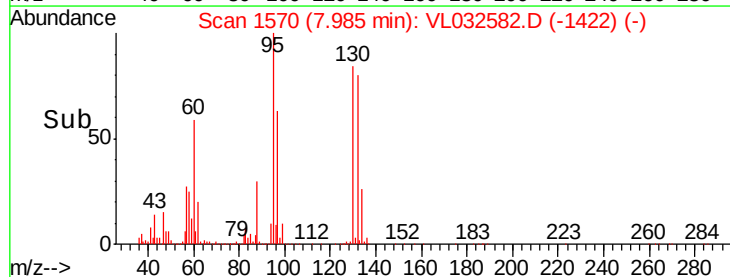
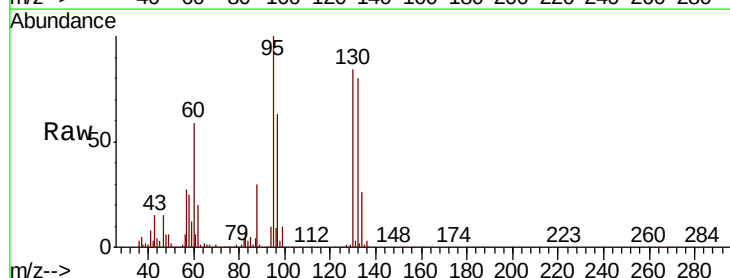
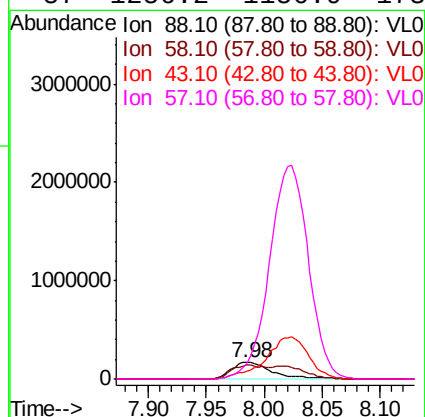
Ion Ratio Lower Upper

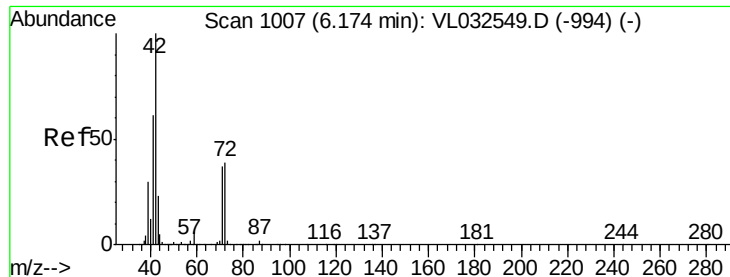
88 100

58 135.8 119.7 179.5

43 269.2 253.0 379.4

57 1256.2 1156.9 1735.3





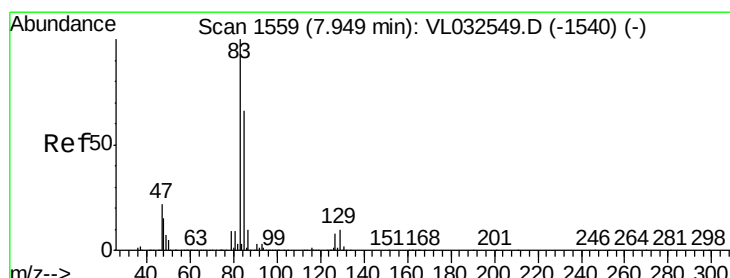
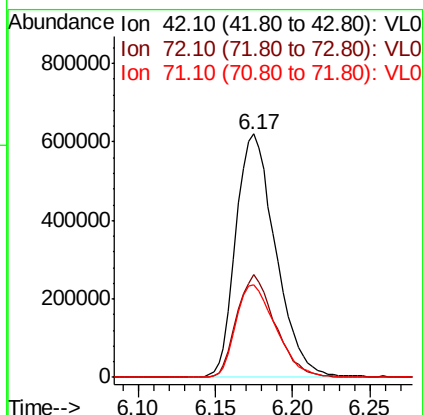
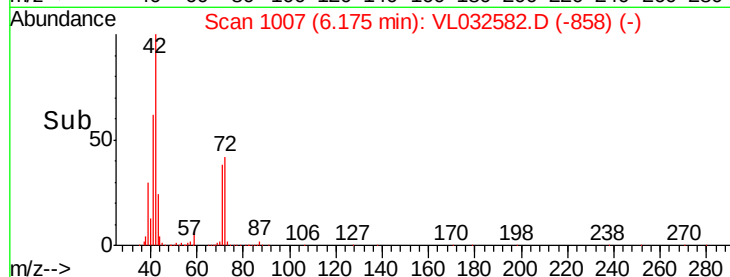
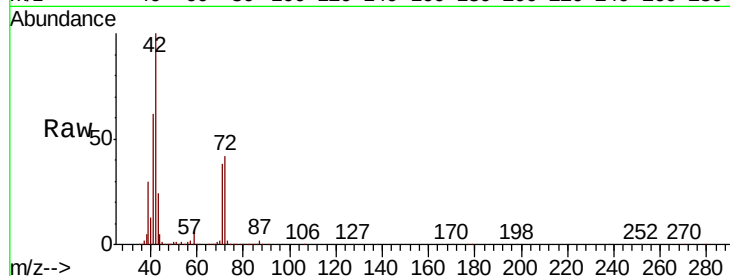
#41
Tetrahydrofuran
Concen: 10.693 ppbv
RT: 6.17 min Scan# 1007
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.0	29.5	44.3
71	38.5	28.3	42.5

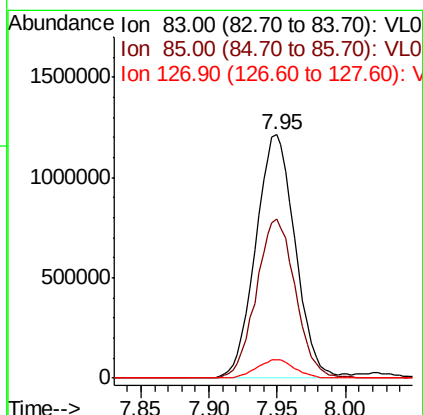
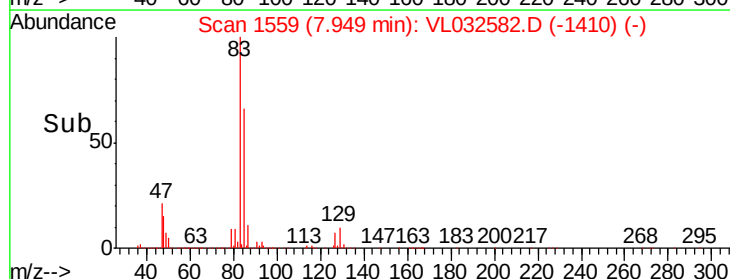
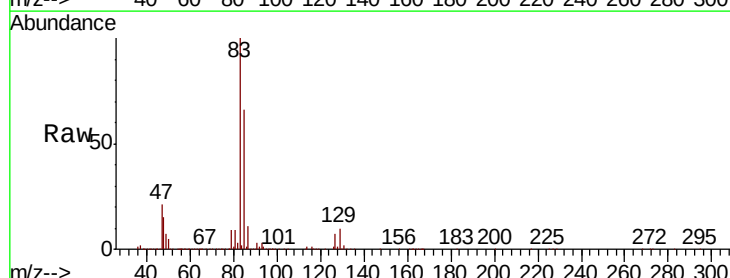
Manual Integrations
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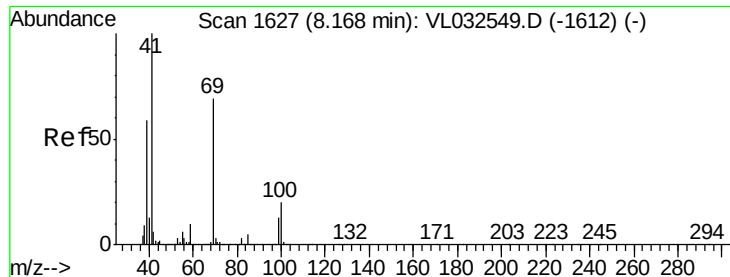
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#42
Bromodichloromethane
Concen: 10.396 ppbv
RT: 7.95 min Scan# 1559
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.1	76.7
127	7.4	5.8	8.8





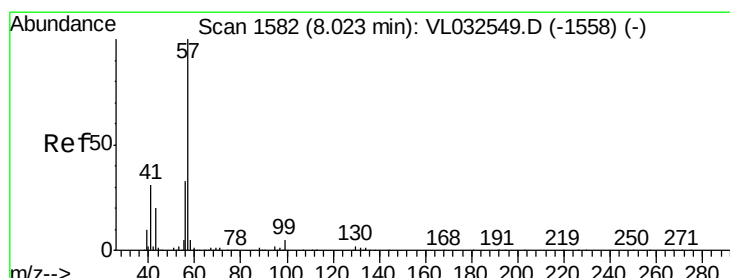
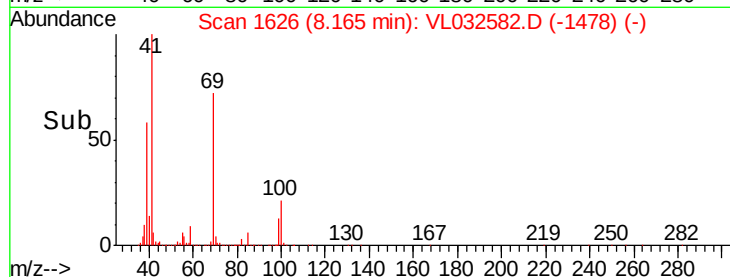
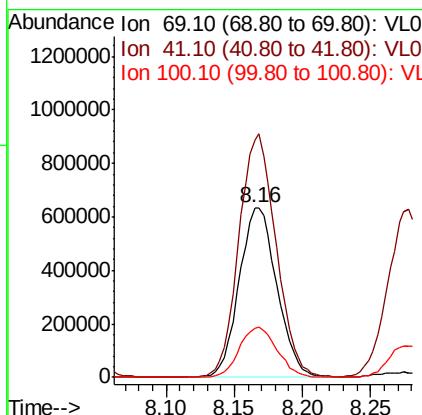
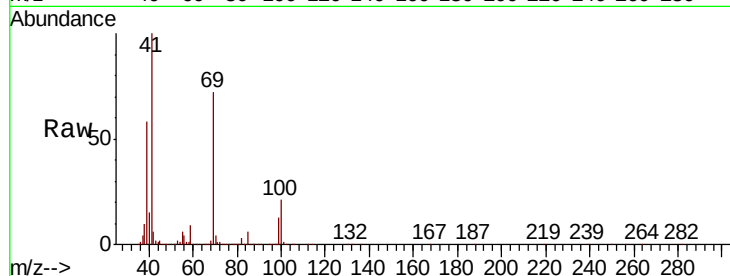
#43
Methyl Methacrylate
Concen: 11.257 ppbv
RT: 8.16 min Scan# 1626
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1217014
Ion Ratio Lower Upper
69 100
41 141.4 117.1 175.7
100 29.5 23.4 35.2

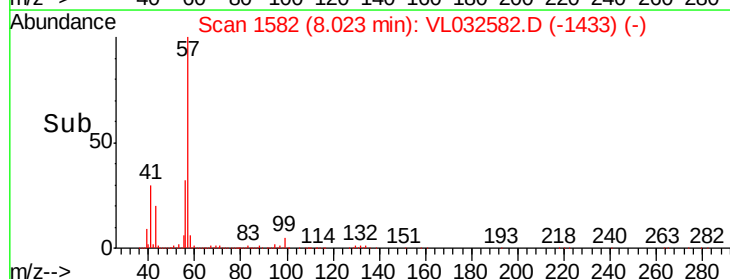
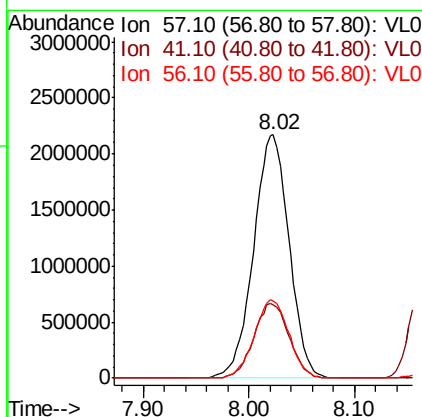
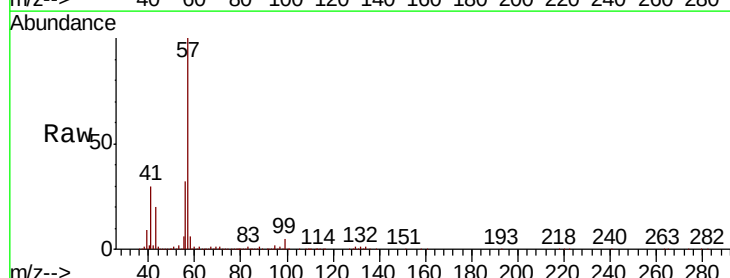
Manual Integrations
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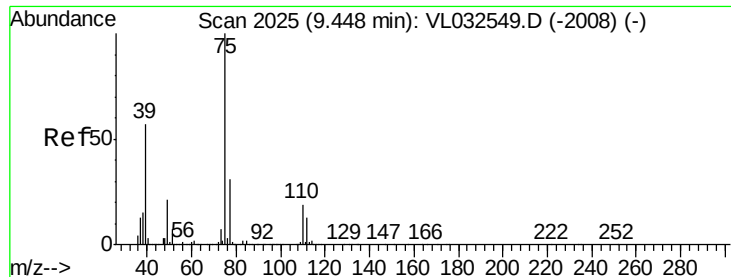
MMDadoda
10/4/2018 7:07:03 PM



#44
2,2,4-Trimethylpentane
Concen: 10.058 ppbv
RT: 8.02 min Scan# 1582
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion: 57 Resp: 5087474
Ion Ratio Lower Upper
57 100
41 30.5 24.4 36.6
56 31.4 25.7 38.5





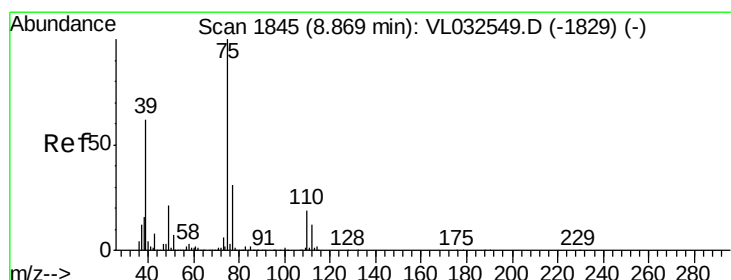
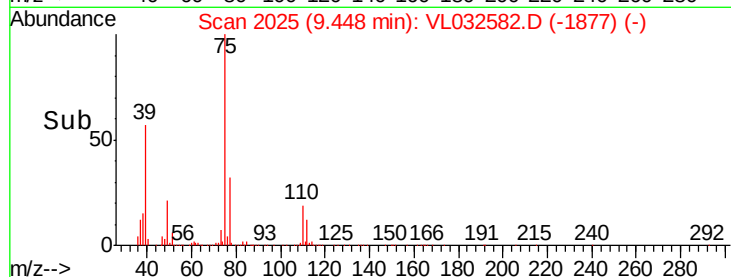
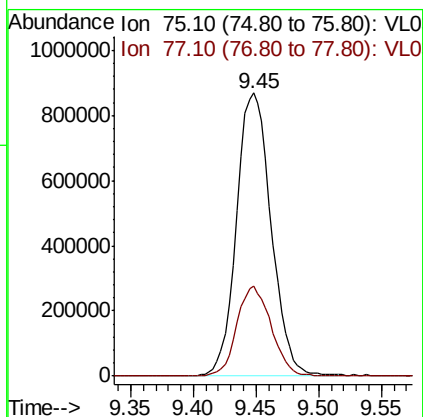
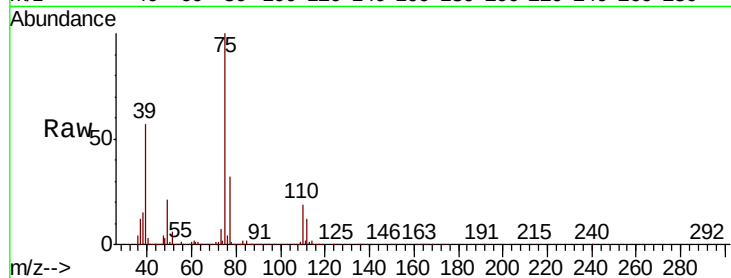
#45
t-1,3-Dichloropropene
Concen: 12.413 ppbv
RT: 9.45 min Scan# 2025
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1669324
Ion Ratio Lower Upper
75 100
77 32.0 26.2 39.2

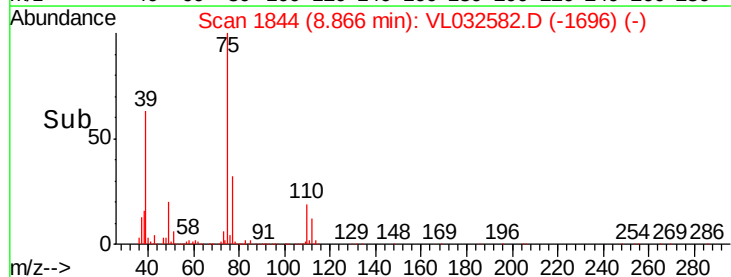
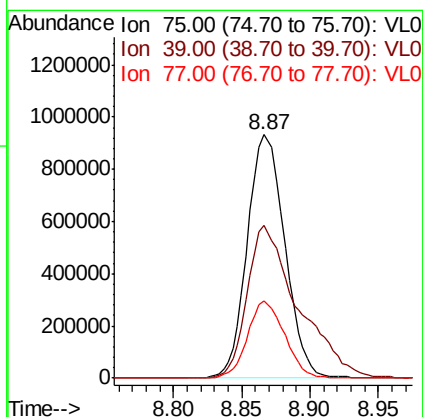
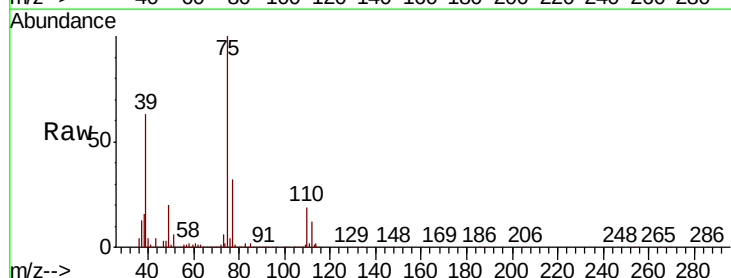
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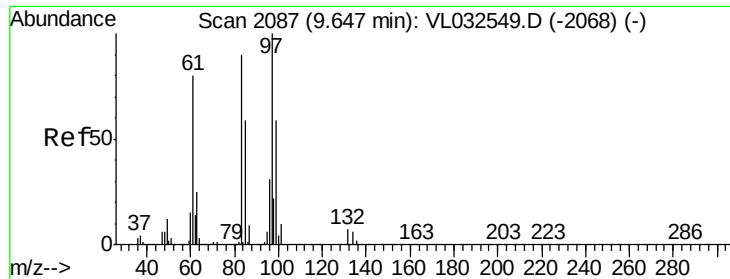
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 11.329 ppbv
RT: 8.87 min Scan# 1844
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion: 75 Resp: 1787167
Ion Ratio Lower Upper
75 100
39 62.7 48.9 73.3
77 32.0 25.4 38.0





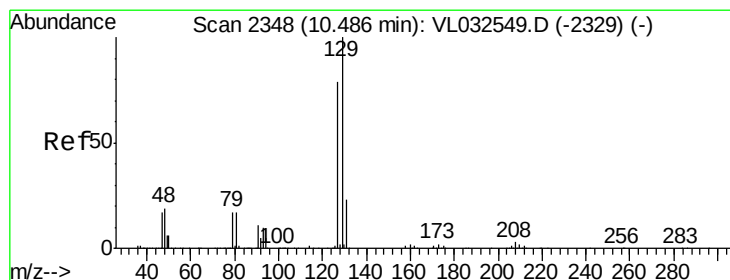
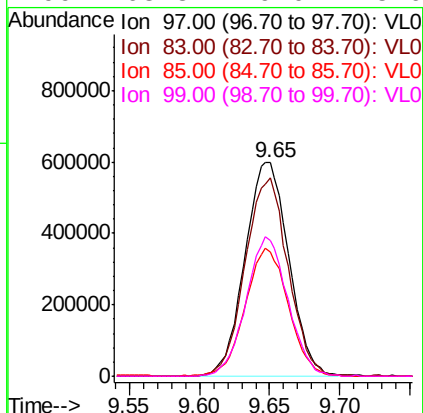
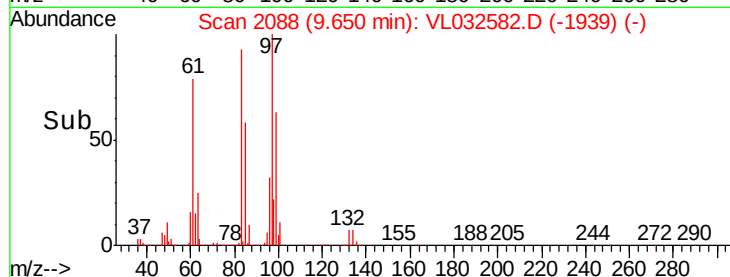
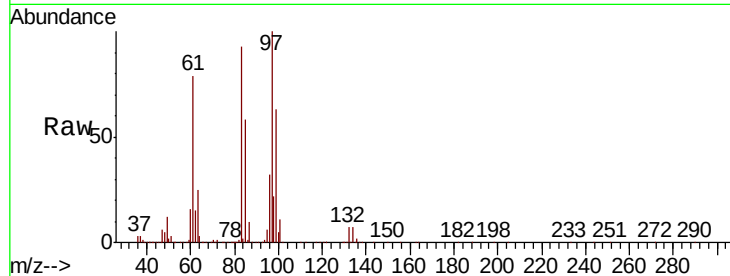
#47
 1,1,2-Trichloroethane
 Concen: 10.018 ppbv
 RT: 9.65 min Scan# 2088
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	92.5	75.0	112.4	
85	58.0	47.5	71.3	
99	63.3	49.0	73.6	

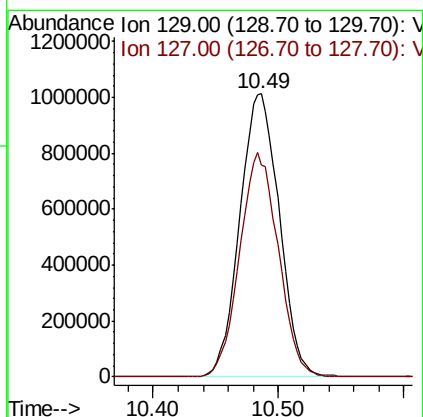
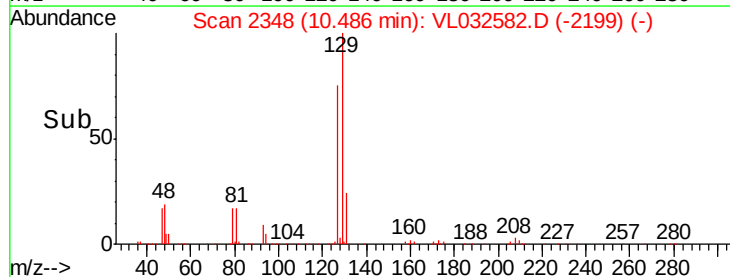
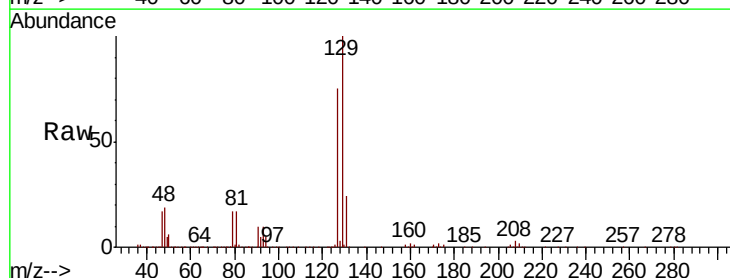
Manual Integrations
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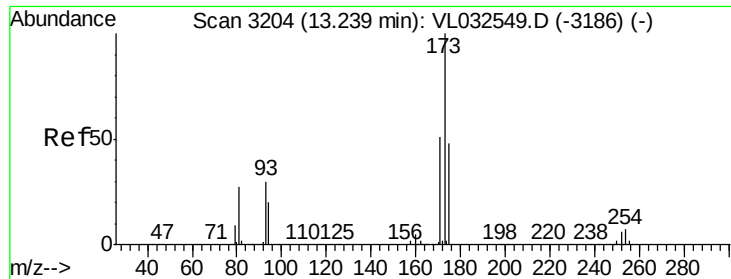
MMDadoda
 10/4/2018 7:07:03 PM



#48
 Dibromochloromethane
 Concen: 10.856 ppbv
 RT: 10.49 min Scan# 2348
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.9	39.5	118.3	





#49

Bromoform

Concen: 11.029 ppbv

RT: 13.24 min Scan# 3203

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1716580

Ion Ratio Lower Upper

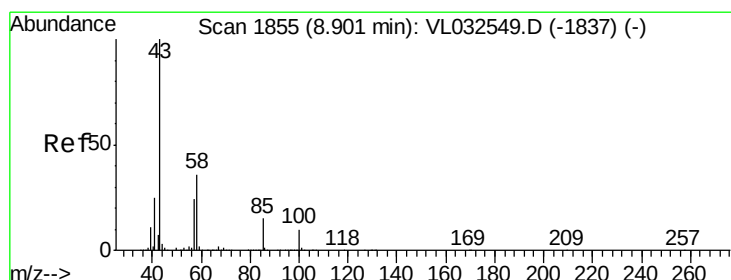
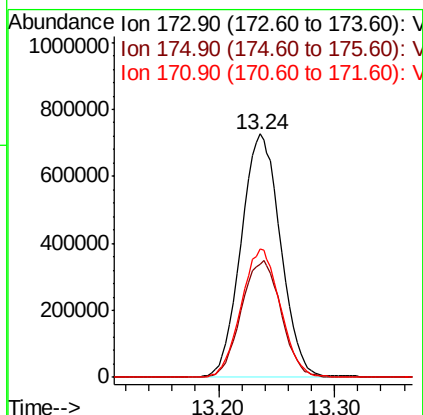
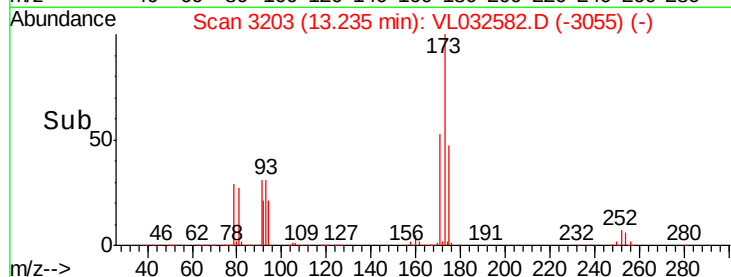
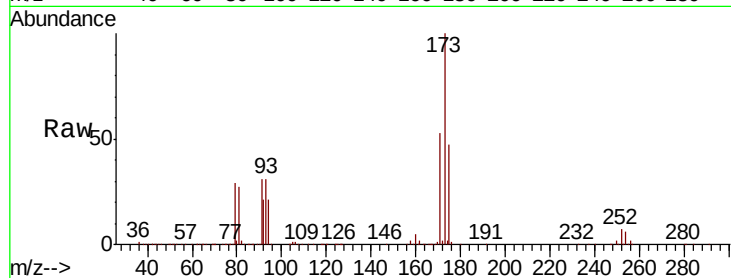
173 100

175 48.8 38.9 58.3

171 52.5 41.6 62.4

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#50

4-Methyl-2-Pentanone

Concen: 9.657 ppbv

RT: 8.90 min Scan# 1855

Delta R.T. -0.02 min

Lab File: VL032582.D

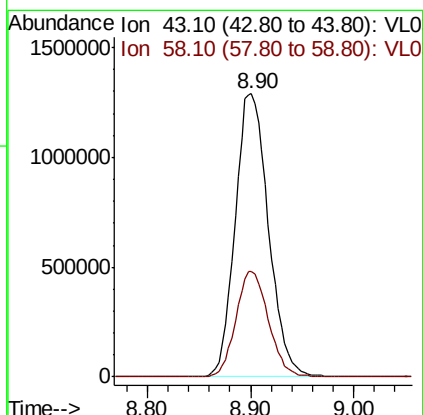
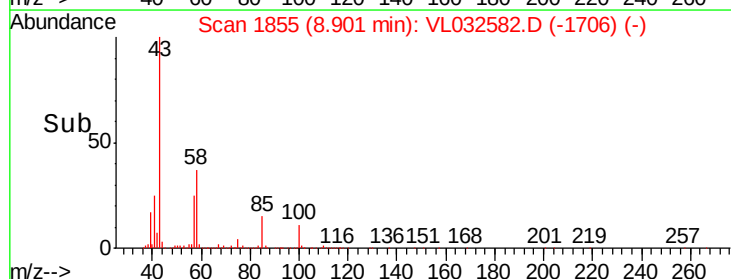
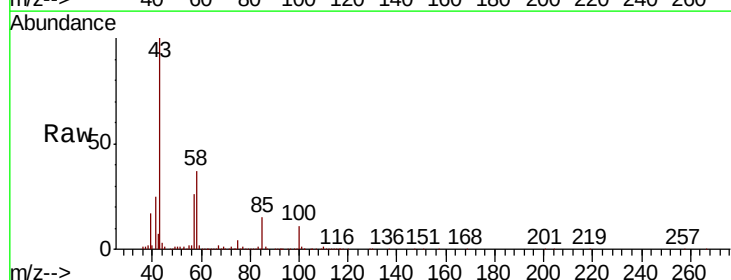
Acq: 3 Oct 2018 15:45

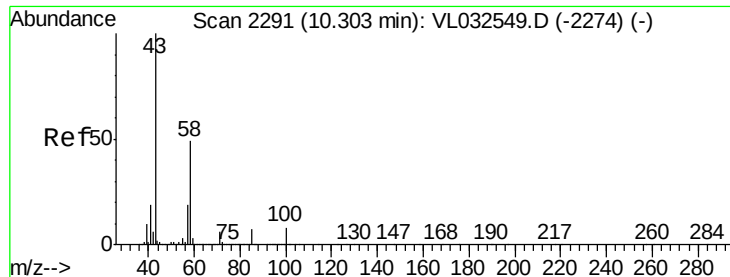
Tgt Ion: 43 Resp: 2894806

Ion Ratio Lower Upper

43 100

58 36.6 29.0 43.4





#51

2-Hexanone

Concen: 10.668 ppbv

RT: 10.30 min Scan# 2291

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2644695

Ion Ratio Lower Upper

43 100

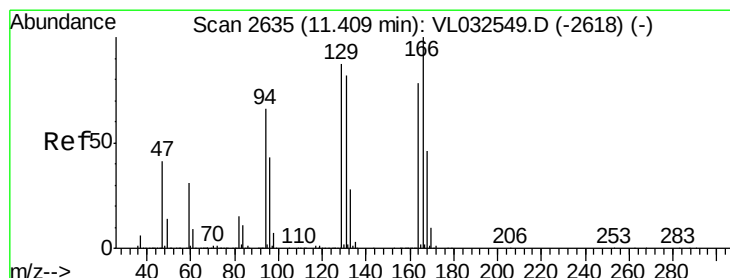
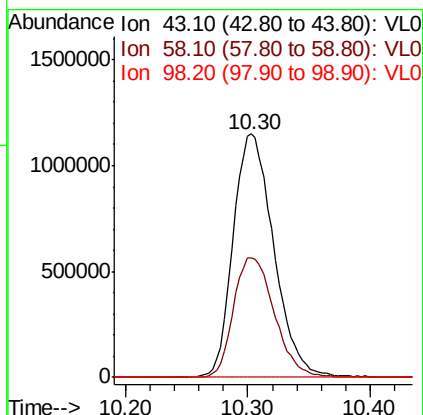
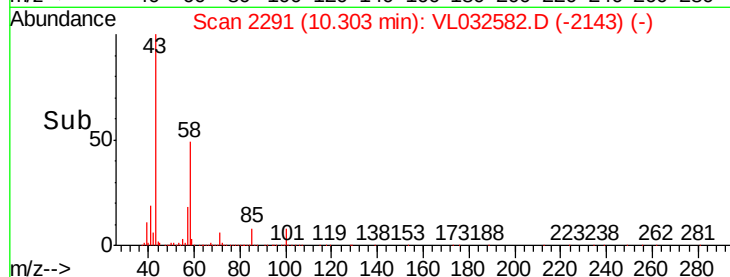
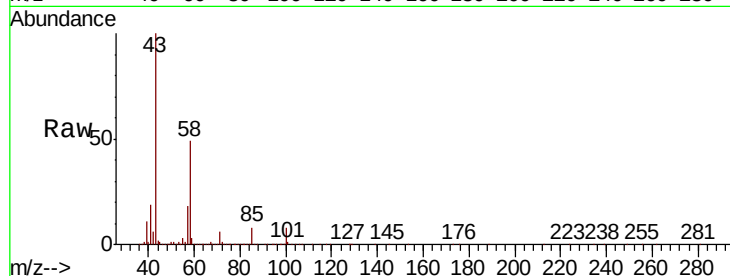
58 49.7 39.2 58.8

98 0.7 0.4 0.6#

Manual Integrations
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#52

Tetrachloroethene

Concen: 10.328 ppbv

RT: 11.41 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Tgt Ion: 164 Resp: 930667

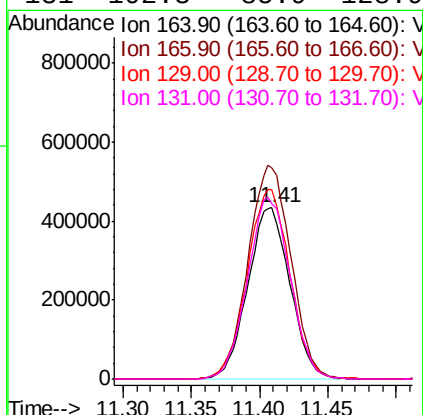
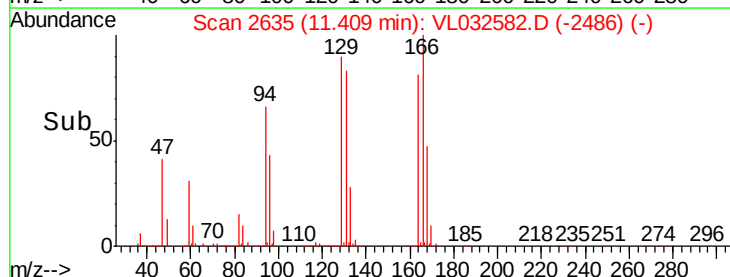
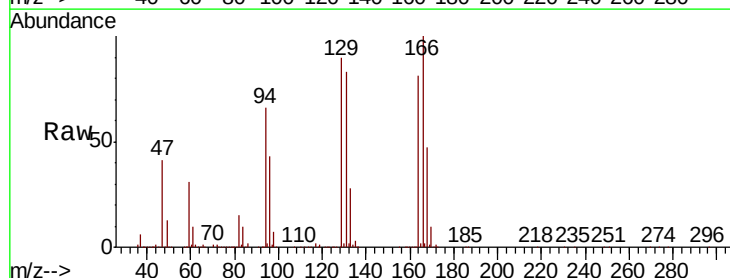
Ion Ratio Lower Upper

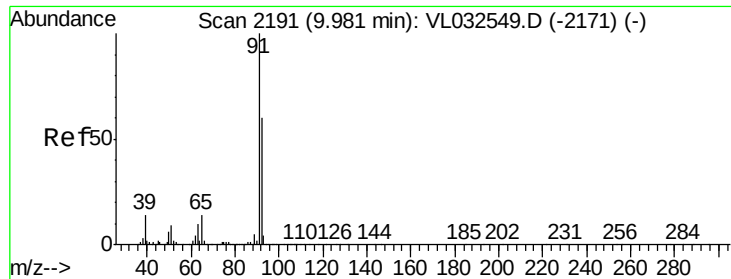
164 100

166 123.0 100.6 150.8

129 110.8 89.9 134.9

131 102.3 85.9 128.9





#53

Toluene

Concen: 11.272 ppbv

RT: 9.98 min Scan# 2191

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3555054

Ion Ratio Lower Upper

91 100

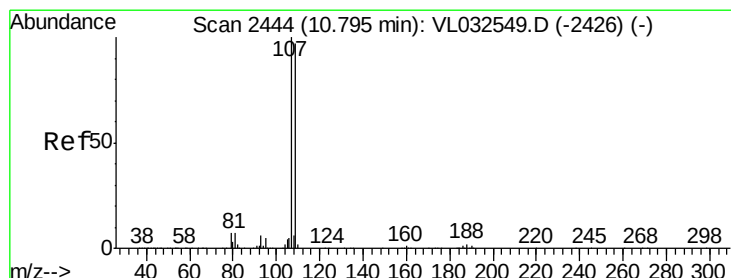
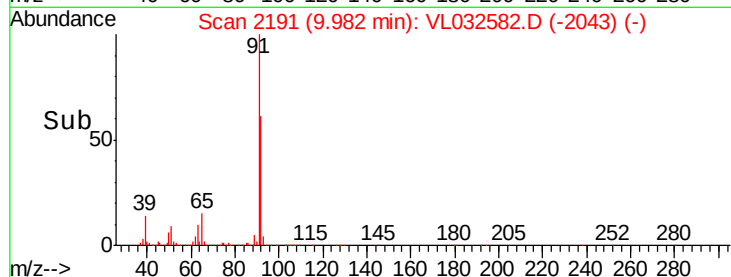
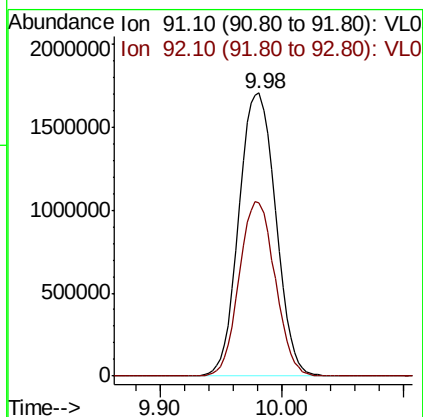
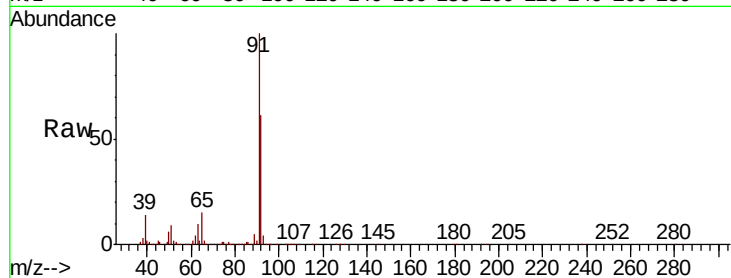
92 60.2 48.1 72.1

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 10.657 ppbv

RT: 10.79 min Scan# 2444

Delta R.T. -0.02 min

Lab File: VL032582.D

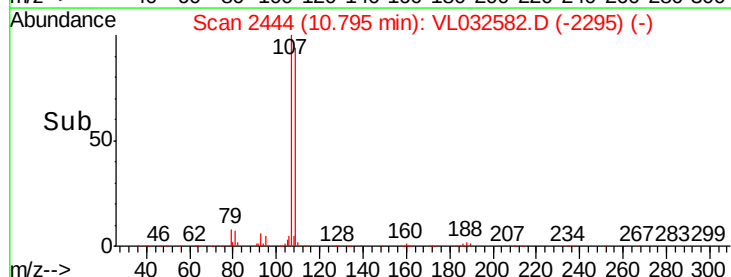
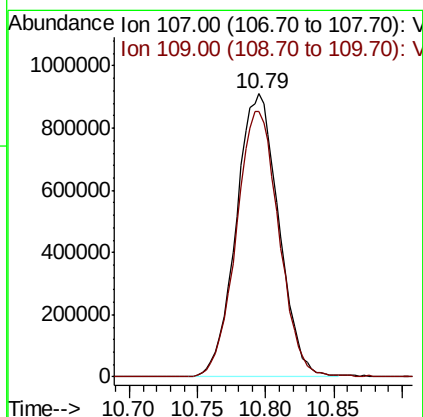
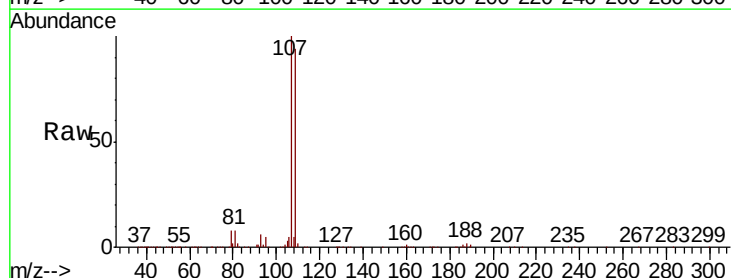
Acq: 3 Oct 2018 15:45

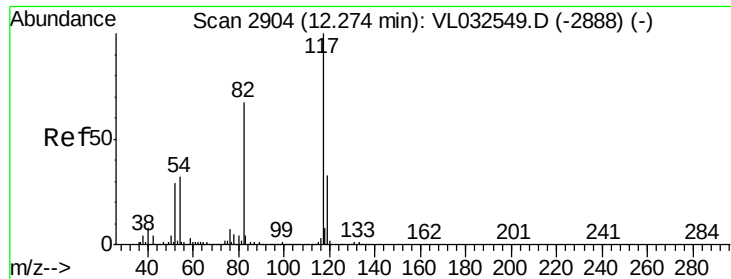
Tgt Ion: 107 Resp: 1963404

Ion Ratio Lower Upper

107 100

109 93.5 73.9 110.9





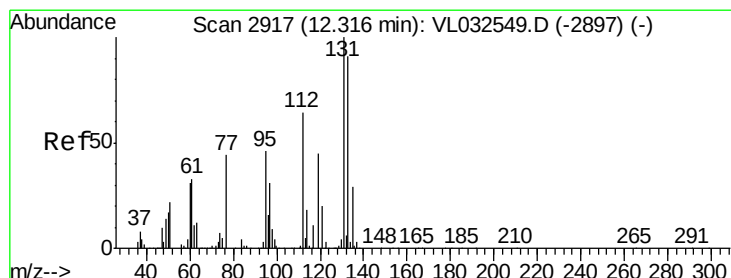
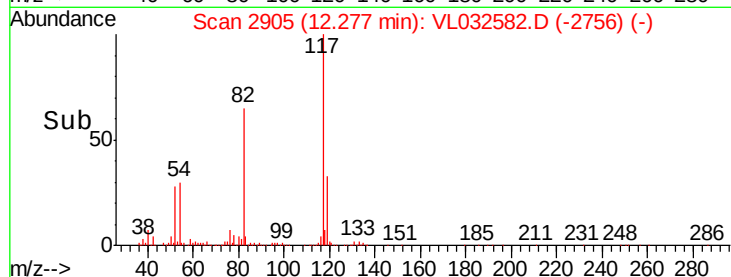
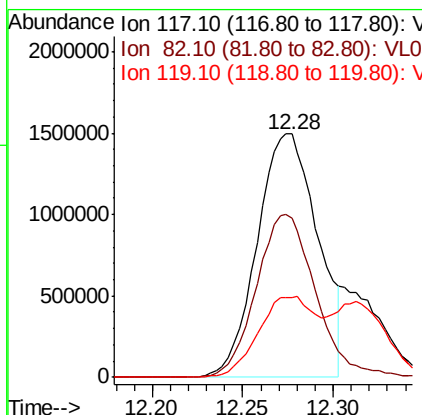
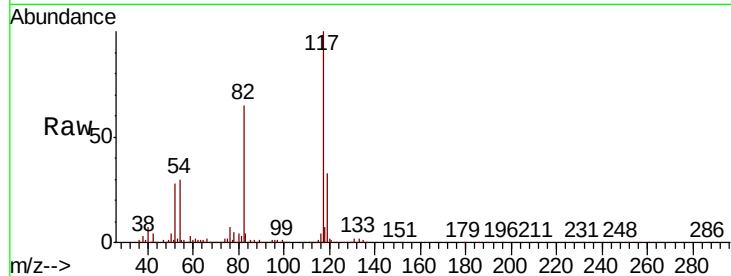
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.28 min Scan# 2905
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 3501078
Ion Ratio Lower Upper
117 100
82 65.8 53.0 79.6
119 30.9 45.9 68.9#

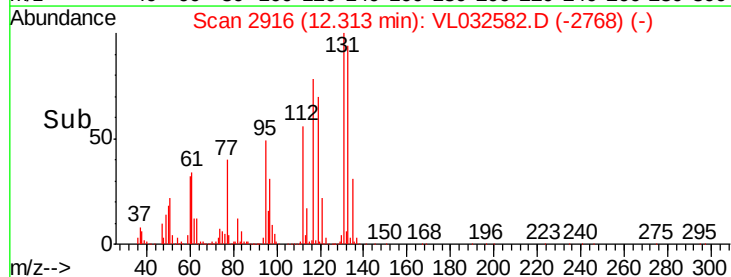
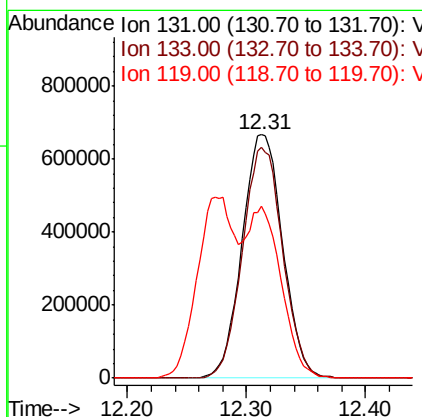
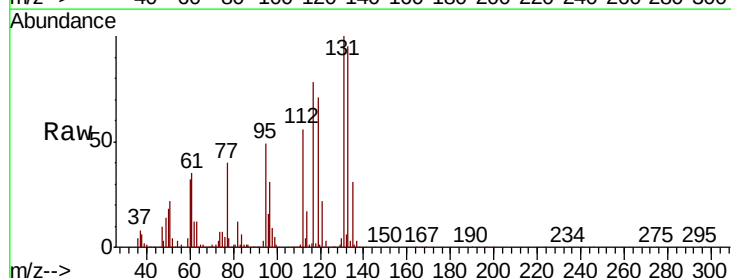
Manual Integrations
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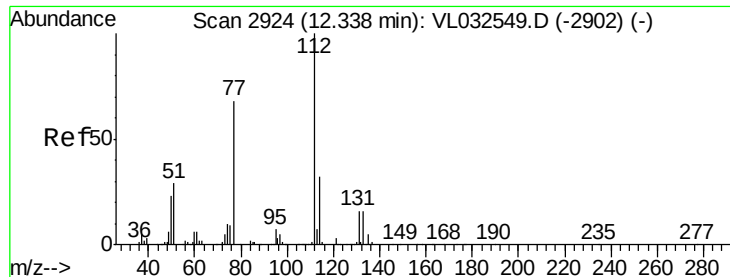
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.971 ppbv
RT: 12.31 min Scan# 2916
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion:131 Resp: 1569233
Ion Ratio Lower Upper
131 100
133 94.5 77.0 115.4
119 53.9 114.2 171.2#





#57

Chlorobenzene

Concen: 9.614 ppbv

RT: 12.34 min Scan# 2923

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 2711495

Ion Ratio Lower Upper

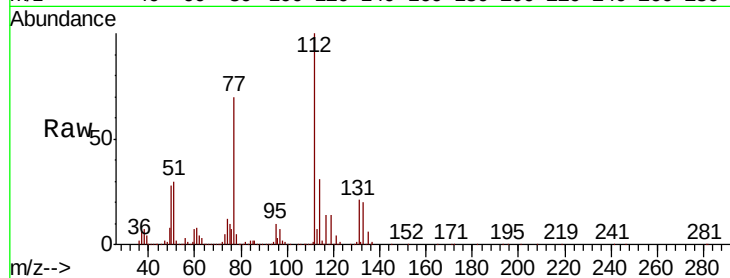
112 100

77 69.7 56.1 84.1

114 31.4 27.8 34.0

Manual Integrations
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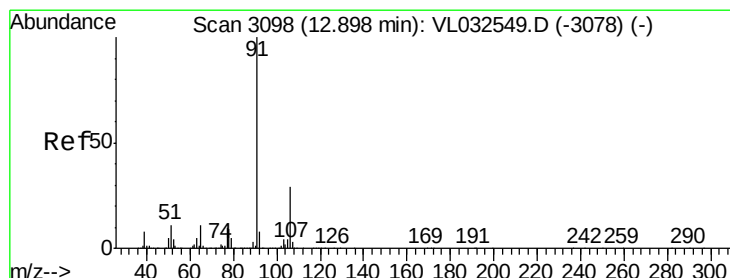
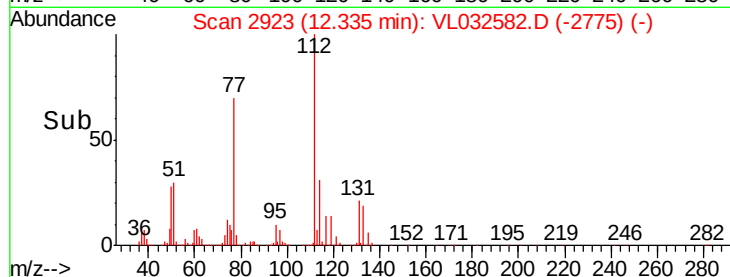
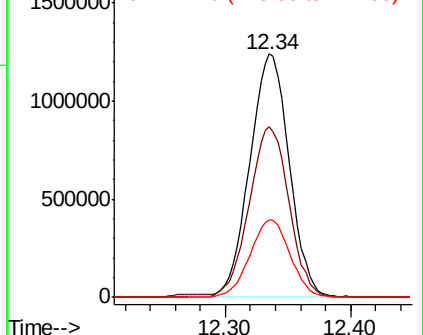
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.609 ppbv

RT: 12.90 min Scan# 3098

Delta R.T. -0.02 min

Lab File: VL032582.D

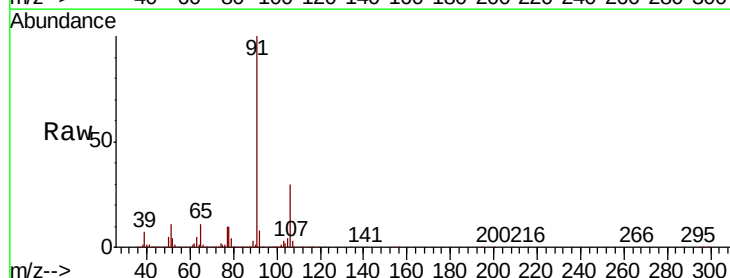
Acq: 3 Oct 2018 15:45

Tgt Ion: 91 Resp: 4505358

Ion Ratio Lower Upper

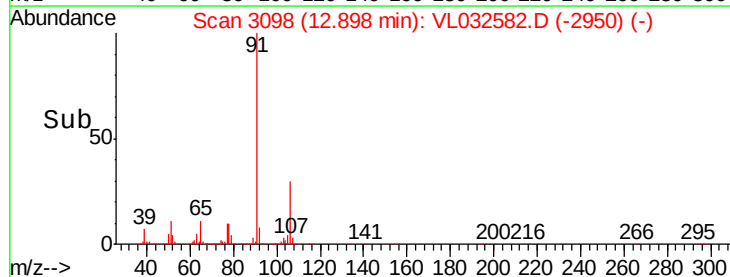
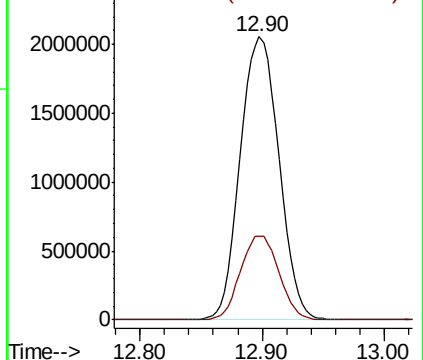
91 100

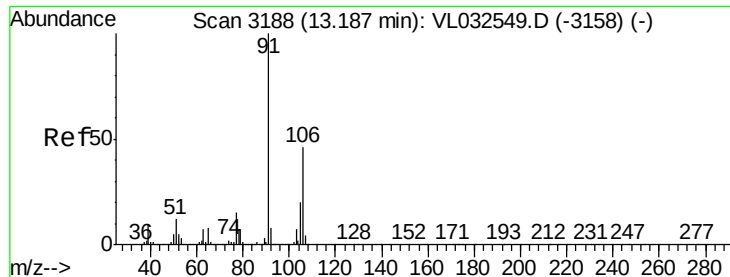
106 29.7 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





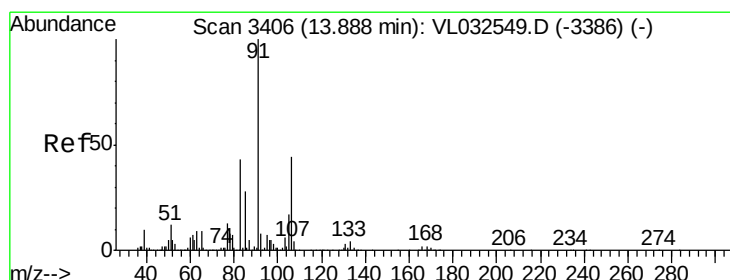
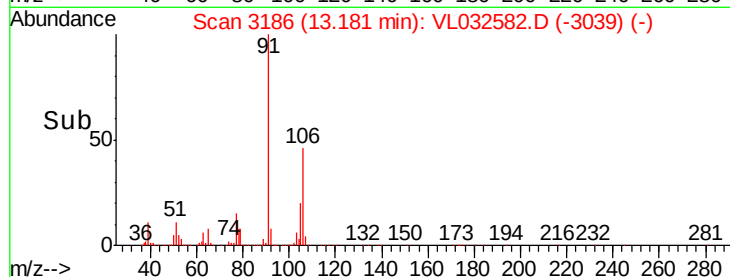
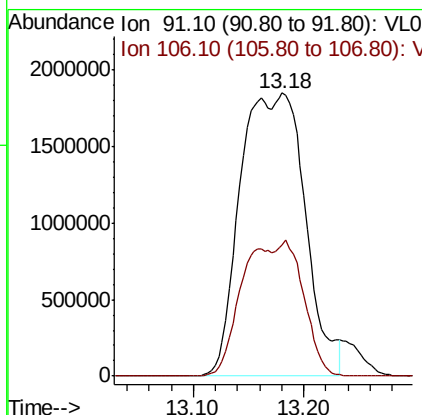
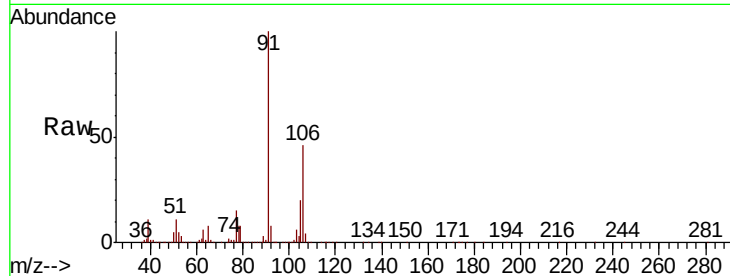
#59
m/p-Xylene
Concen: 19.925 ppbv m
RT: 13.18 min Scan# 3186
Delta R.T. -0.03 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 7528677
Ion Ratio Lower Upper
91 100
106 44.7 36.6 55.0

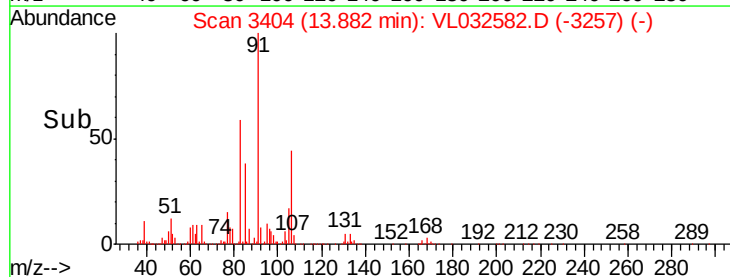
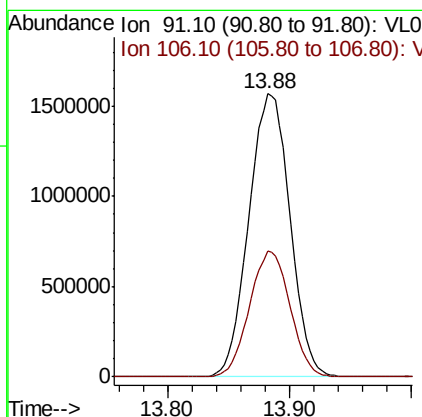
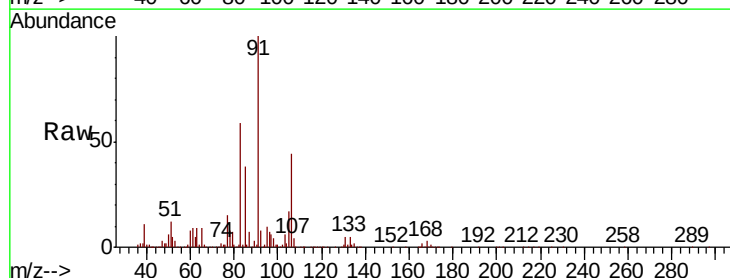
Manual Integrations
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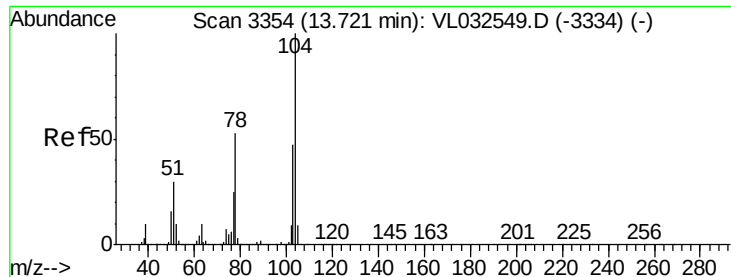
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#60
o-Xylene
Concen: 9.946 ppbv
RT: 13.88 min Scan# 3404
Delta R.T. -0.03 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion: 91 Resp: 3658836
Ion Ratio Lower Upper
91 100
106 43.7 21.9 65.7





#61

Stvrene

Concen: 11.208 ppbv

RT: 13.72 min Scan# 3354

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2697138

Ion Ratio Lower Upper

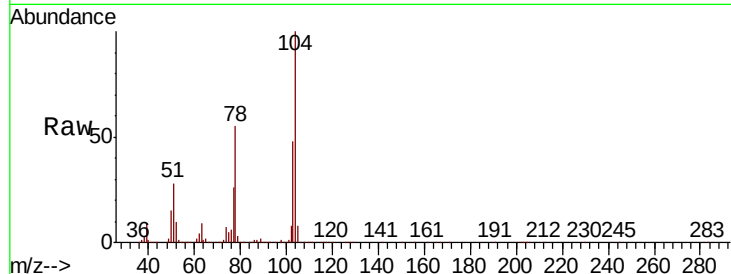
104 100

78 53.6 41.8 62.8

103 47.1 38.0 57.0

Manual Integrations
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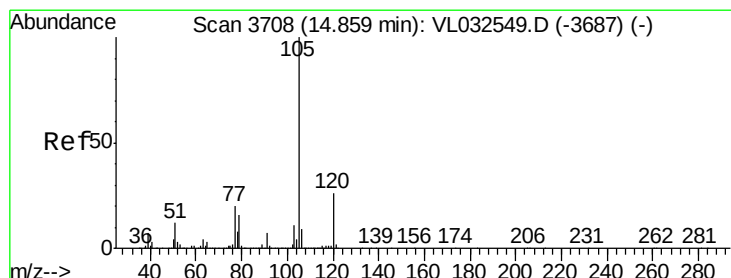
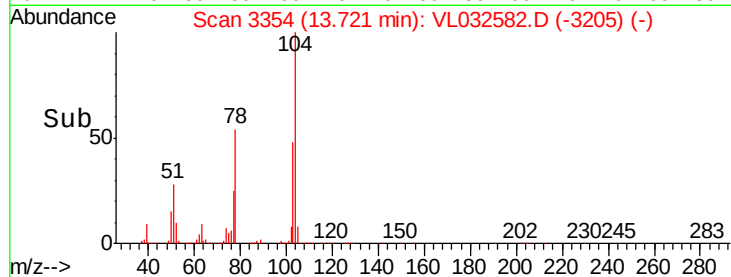
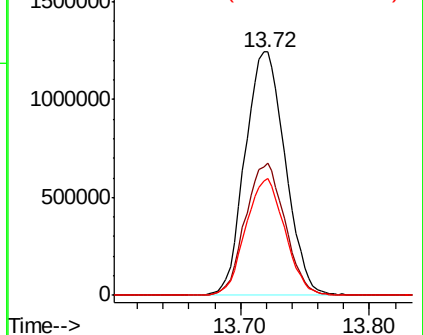
MMDadoda
10/4/2018 7:07:03 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.891 ppbv

RT: 14.86 min Scan# 3708

Delta R.T. -0.03 min

Lab File: VL032582.D

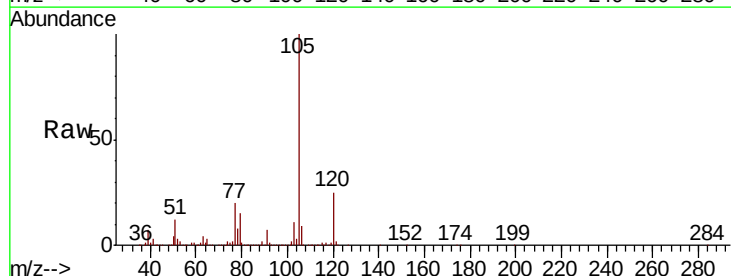
Acq: 3 Oct 2018 15:45

Tgt Ion:105 Resp: 5145853

Ion Ratio Lower Upper

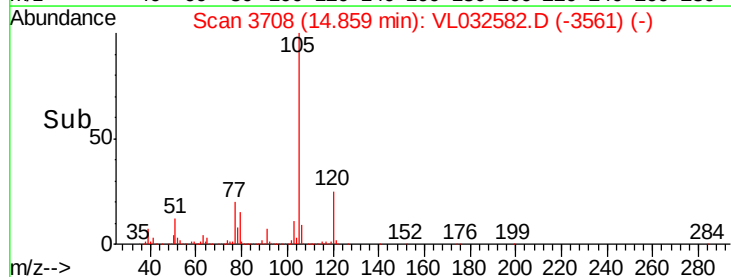
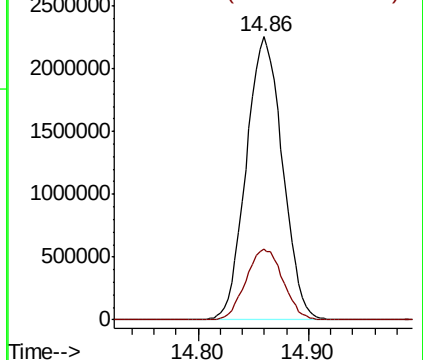
105 100

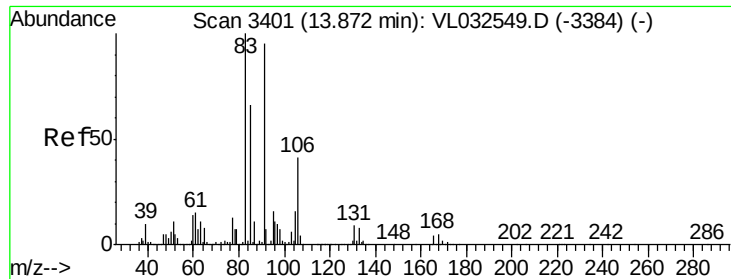
120 25.5 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 8.492 ppbv

RT: 13.87 min Scan# 3401

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2775420

Ion Ratio Lower Upper

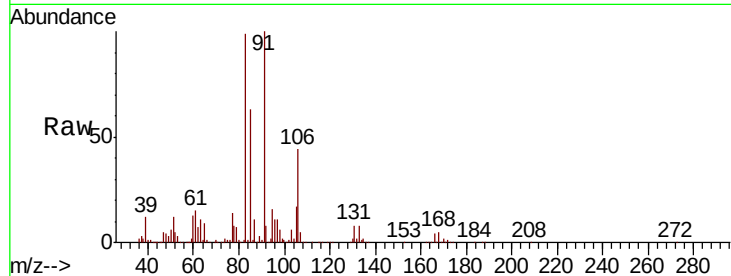
83 100

131 8.7 4.3 12.8

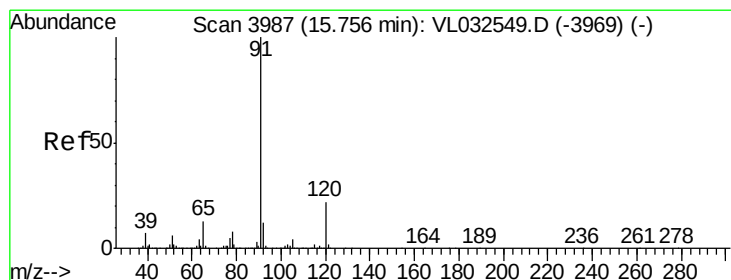
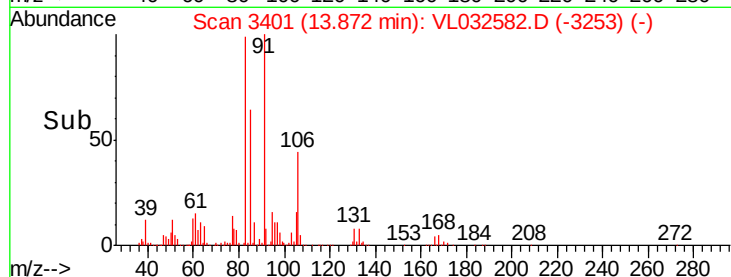
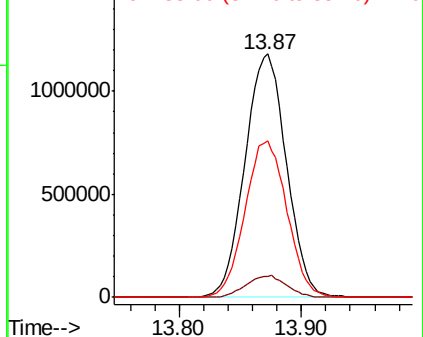
85 65.1 32.3 96.8

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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.995 ppbv

RT: 15.76 min Scan# 3988

Delta R.T. -0.02 min

Lab File: VL032582.D

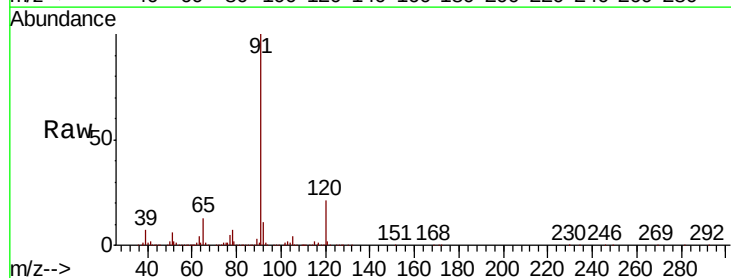
Acq: 3 Oct 2018 15:45

Tgt Ion:120 Resp: 1335862

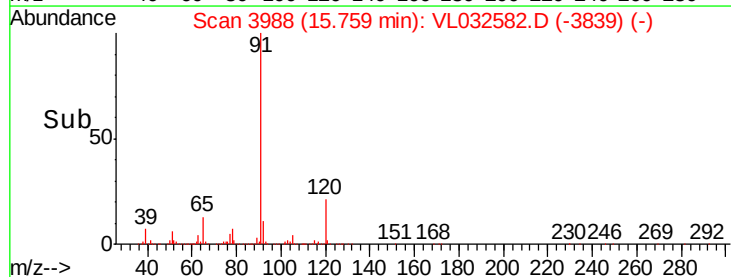
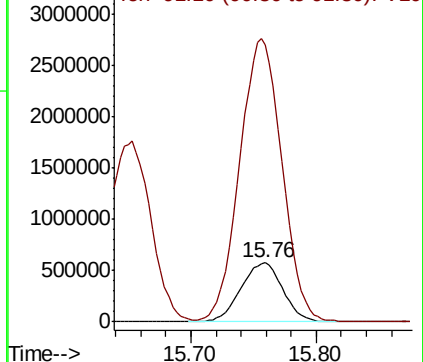
Ion Ratio Lower Upper

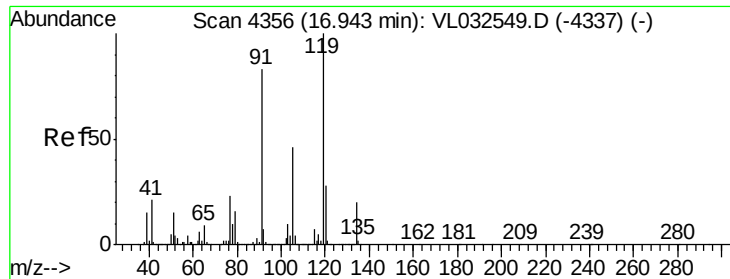
120 100

91 485.4 381.8 572.6



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





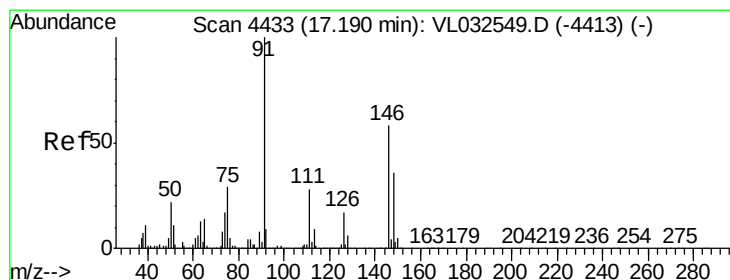
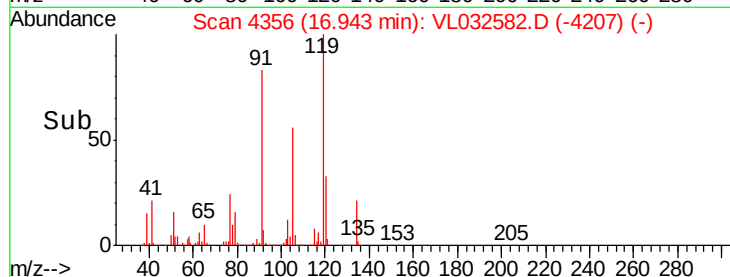
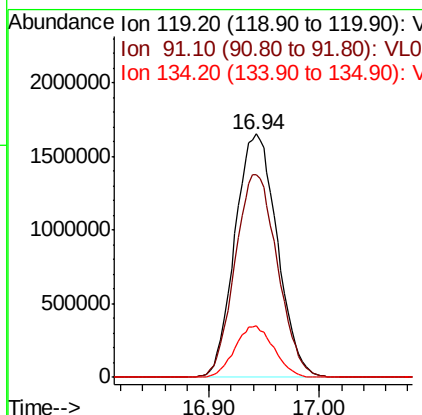
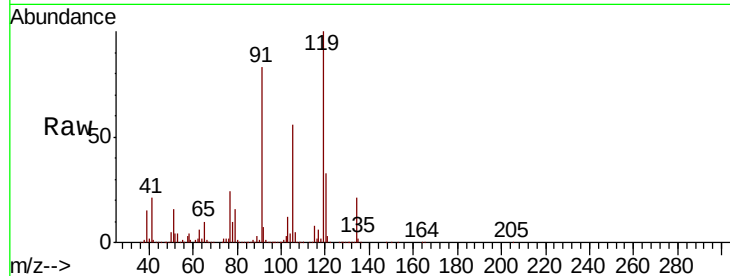
#65
tert-Butylbenzene
Concen: 9.819 ppbv
RT: 16.94 min Scan# 4356
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	84.0	66.5	99.7
134	19.6	16.0	24.0

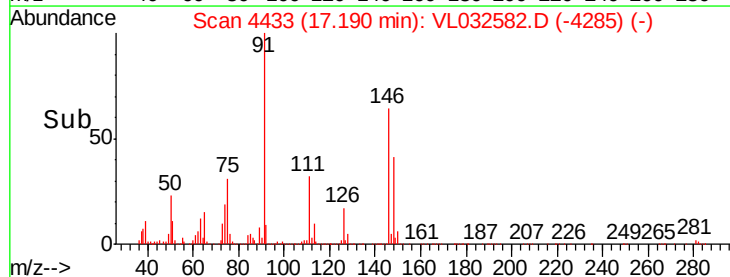
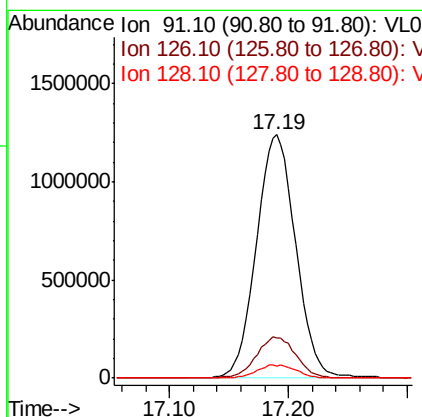
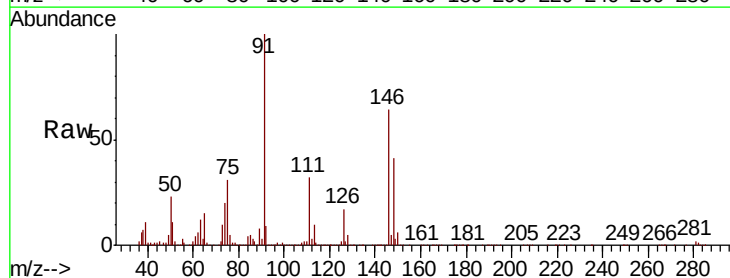
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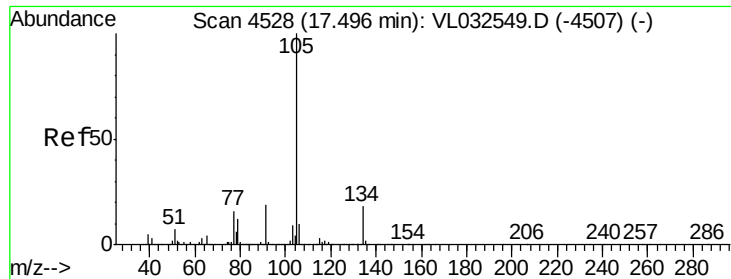
MMDadoda
10/4/2018 7:07:03 PM



#66
Benzyl Chloride
Concen: 10.969 ppbv
RT: 17.19 min Scan# 4433
Delta R.T. -0.02 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.3	13.8	20.8
128	5.5	4.4	6.6





#67

sec-Butylbenzene

Concen: 9.679 ppbv

RT: 17.49 min Scan# 4527

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 6417292

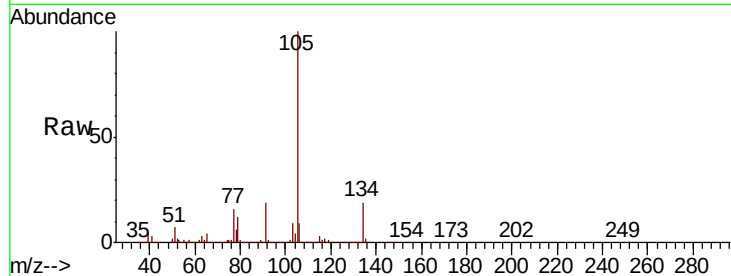
Ion Ratio Lower Upper

105 100

134 17.9 14.4 21.6

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

3000000 Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

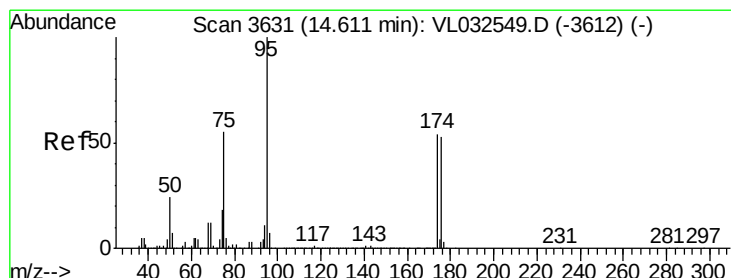
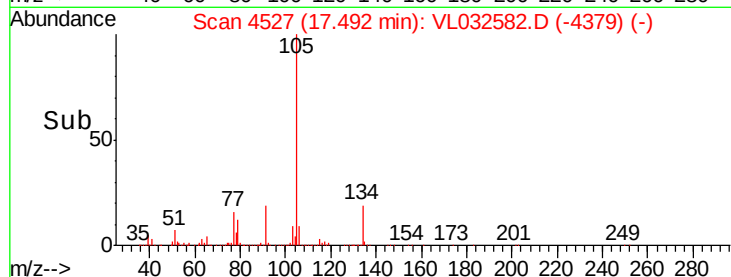
1000000

500000

0

17.40 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.443 ppbv

RT: 14.61 min Scan# 3631

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

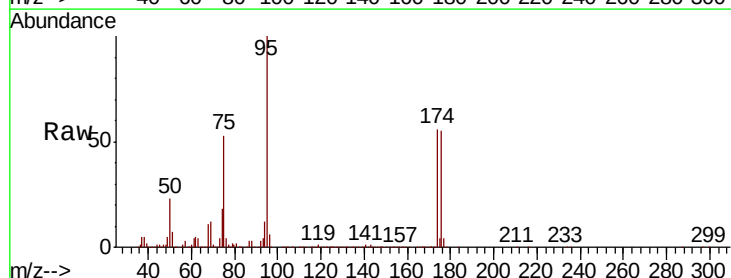
Tgt Ion: 95 Resp: 2493083

Ion Ratio Lower Upper

95 100

174 58.3 46.3 69.5

175 4.2 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

1500000 Ion 174.00 (173.70 to 174.70): V

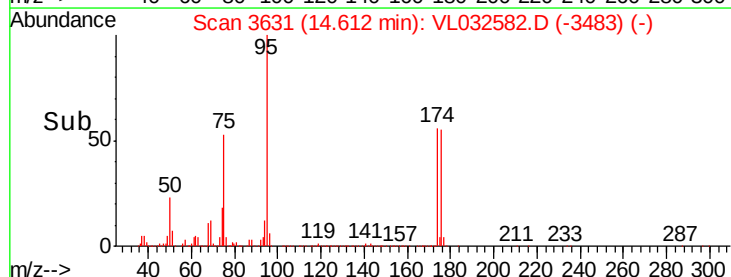
1000000 Ion 175.00 (174.70 to 175.70): V

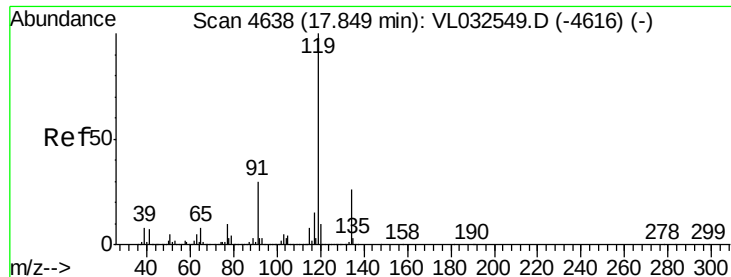
500000

0

14.50 14.60 14.70

Time-->





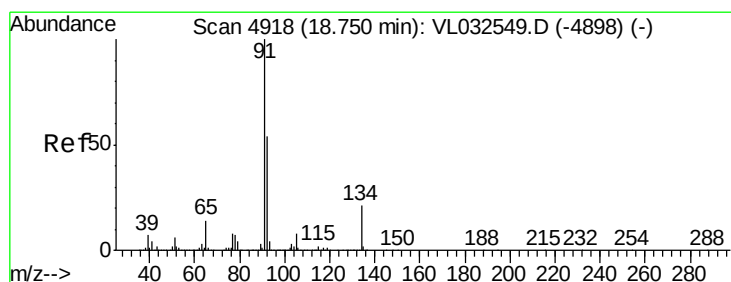
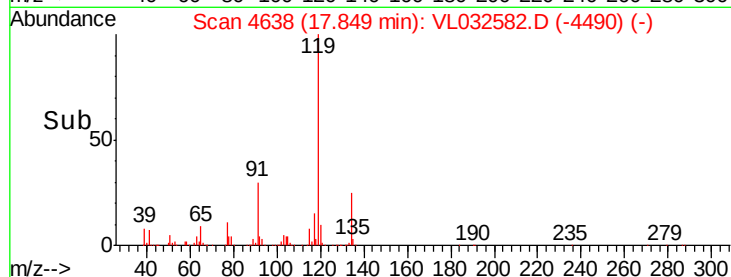
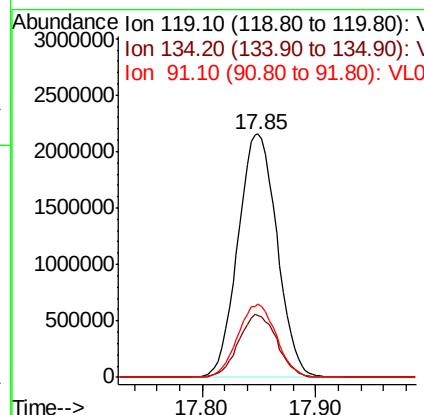
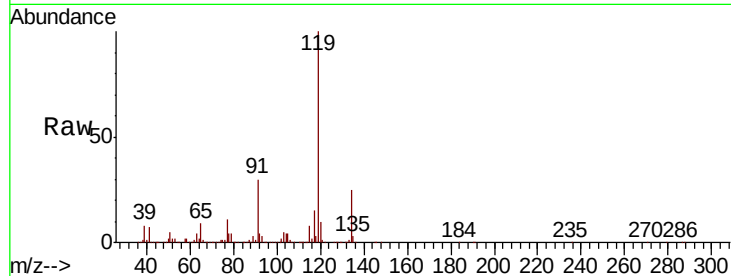
#69
 p-Isopropyltoluene
 Concen: 10.090 ppbv
 RT: 17.85 min Scan# 4638
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.4	30.6
91	29.7	23.4	35.2

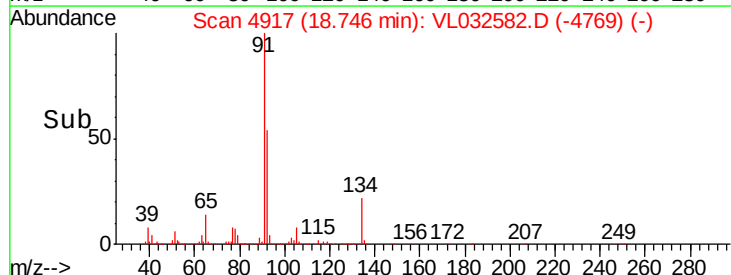
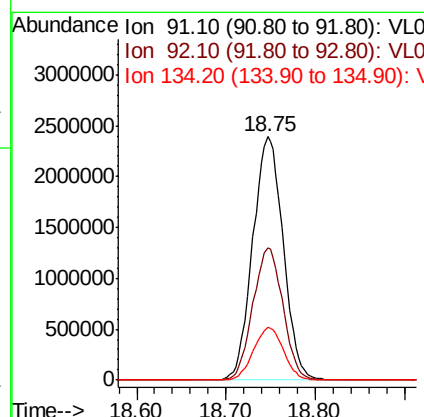
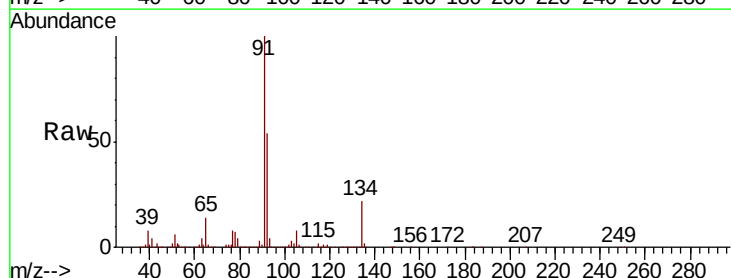
Manual Integrations
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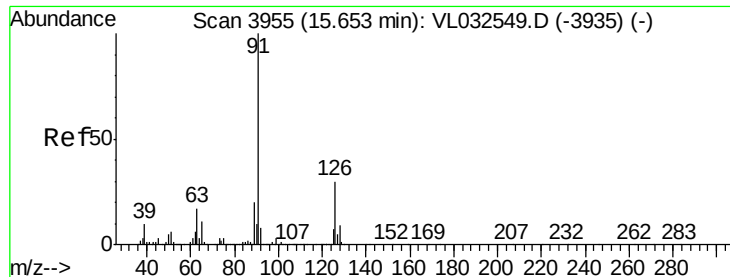
MMDadoda
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#70
 n-Butylbenzene
 Concen: 10.160 ppbv
 RT: 18.75 min Scan# 4917
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.8	43.8	65.8
134	21.4	17.4	26.0





#71

2-Chlorotoluene

Concen: 10.331 ppbv

RT: 15.65 min Scan# 3955

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4093831

Ion Ratio Lower Upper

91 100

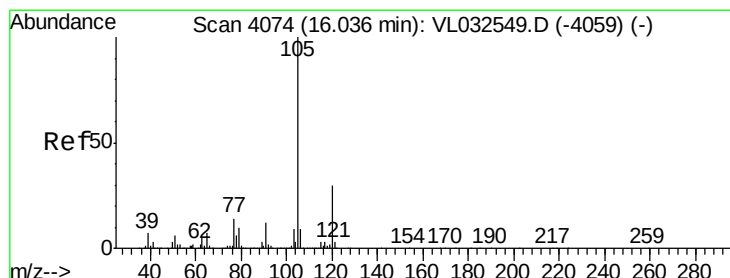
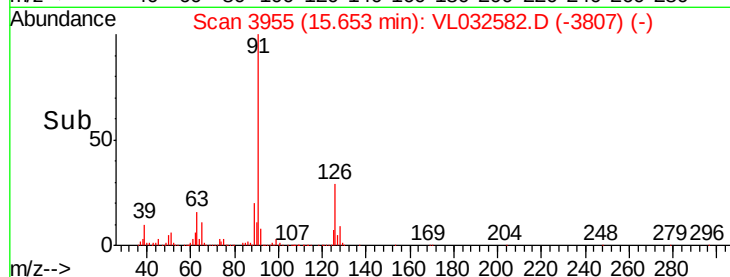
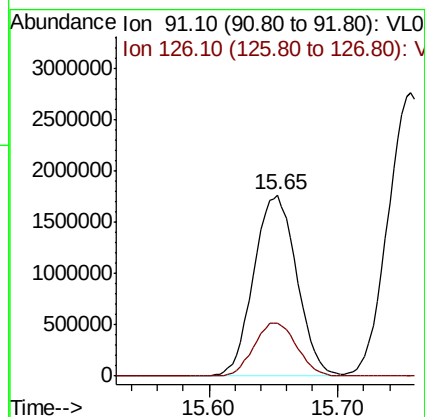
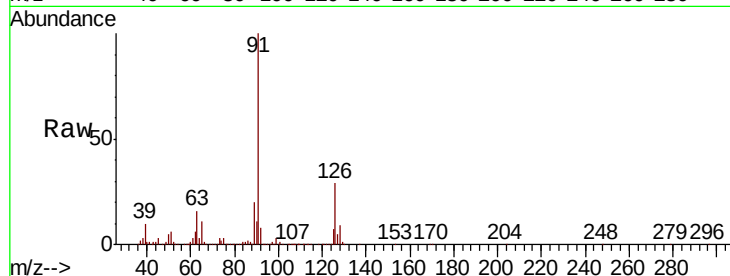
126 29.4 11.9 47.7

Manual Integrations

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#72

4-Ethyltoluene

Concen: 10.584 ppbv

RT: 16.03 min Scan# 4073

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Tgt Ion: 105 Resp: 4226278

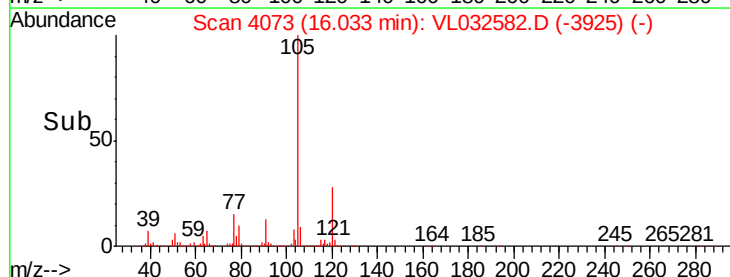
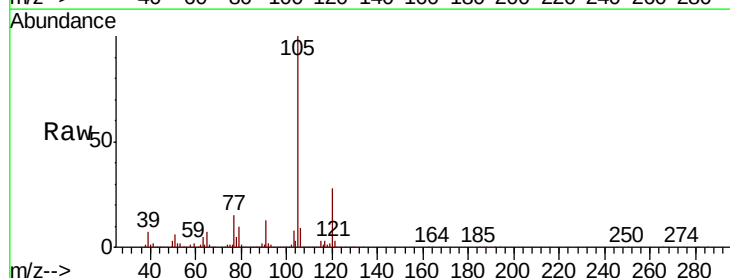
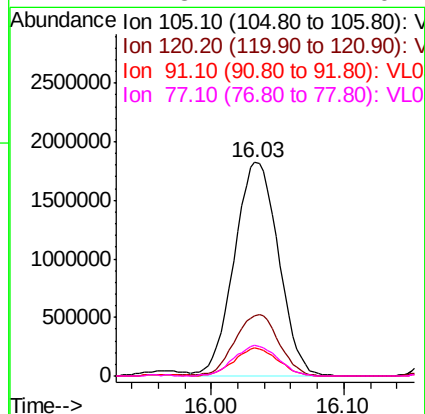
Ion Ratio Lower Upper

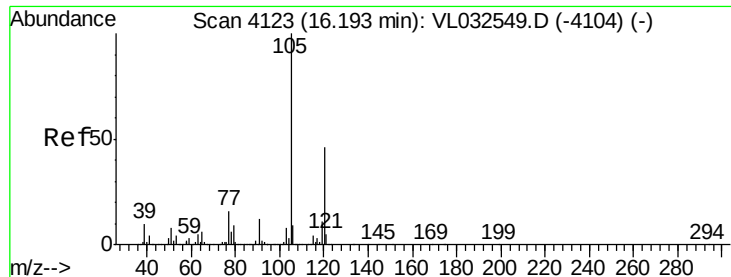
105 100

120 28.9 23.5 35.3

91 12.8 10.2 15.2

77 14.3 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.410 ppbv

RT: 16.19 min Scan# 4122

Delta R.T. -0.03 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4039586

Ion Ratio Lower Upper

105 100

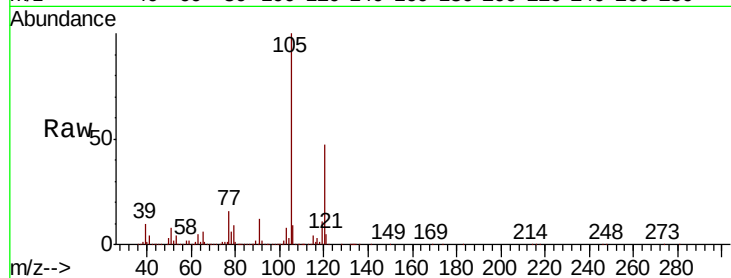
120 46.8 37.9 56.9

Manual Integrations

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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

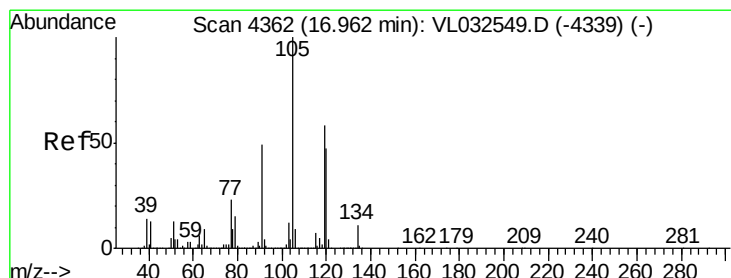
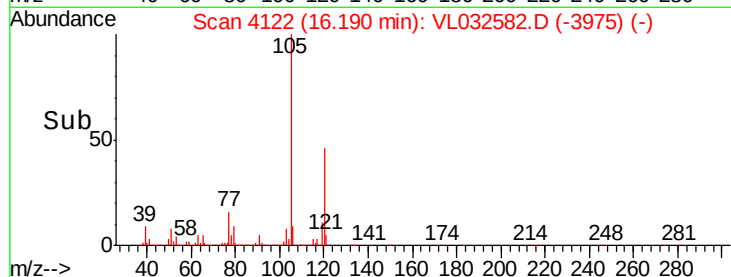
1000000

500000

0

16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.814 ppbv

RT: 16.96 min Scan# 4362

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Tgt Ion:105 Resp: 4100615

Ion Ratio Lower Upper

105 100

120 48.2 37.8 56.8

91 42.4 41.4 62.0

77 21.6 18.6 28.0

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

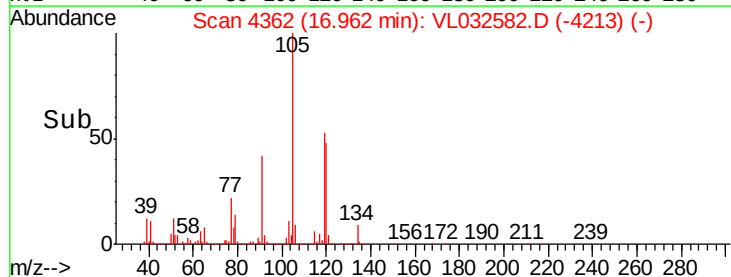
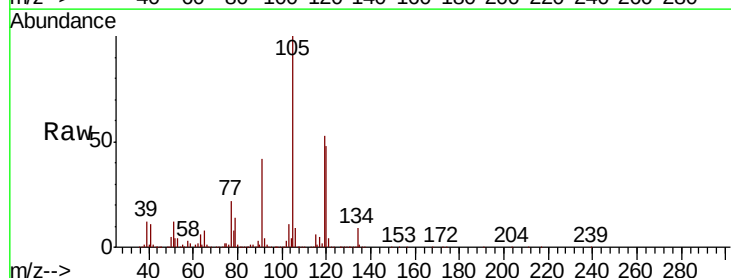
1000000

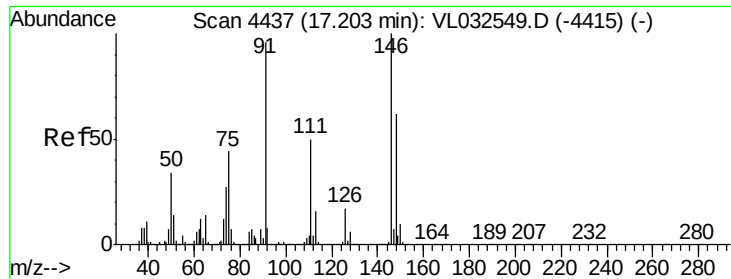
500000

0

16.90 17.00

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.925 ppbv

RT: 17.20 min Scan# 4436

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2301095

Ion Ratio Lower Upper

146 100

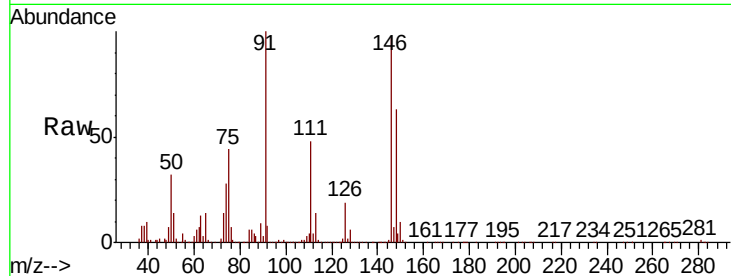
111 49.0 24.5 73.5

148 64.7 32.0 96.2

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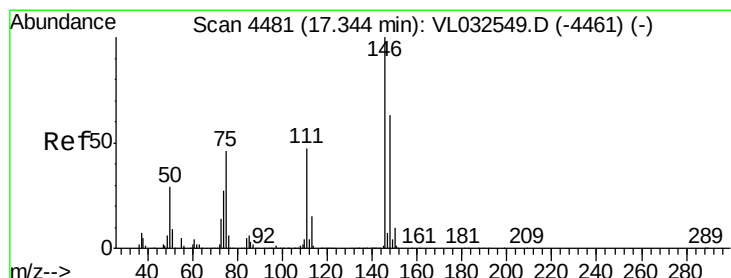
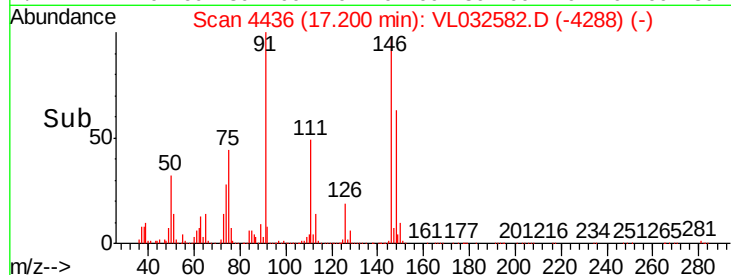
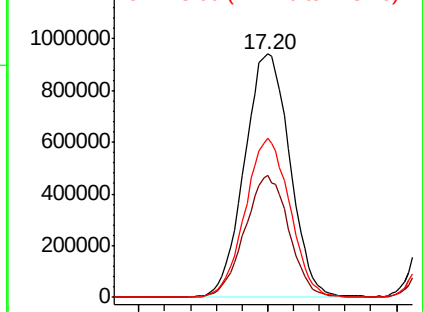


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.731 ppbv

RT: 17.34 min Scan# 4480

Delta R.T. -0.02 min

Lab File: VL032582.D

Acq: 3 Oct 2018 15:45

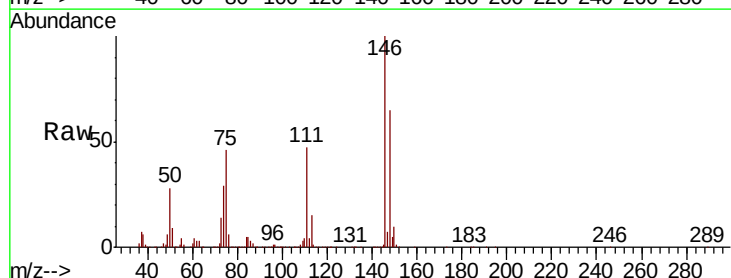
Tgt Ion:146 Resp: 2297308

Ion Ratio Lower Upper

146 100

111 46.7 23.4 70.2

148 64.3 32.0 96.2

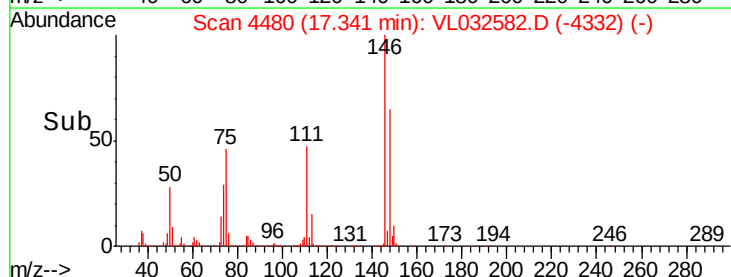
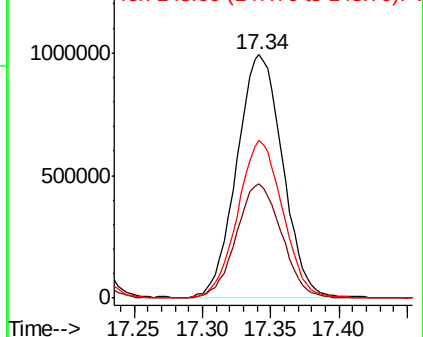


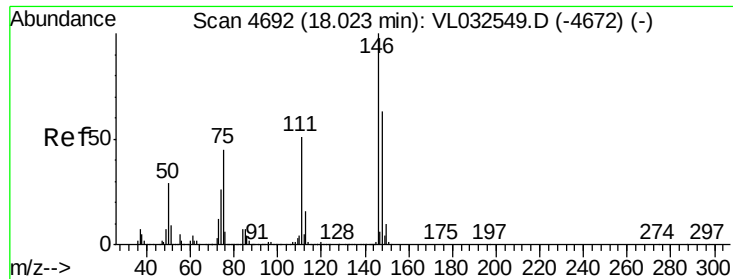
Abundance

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





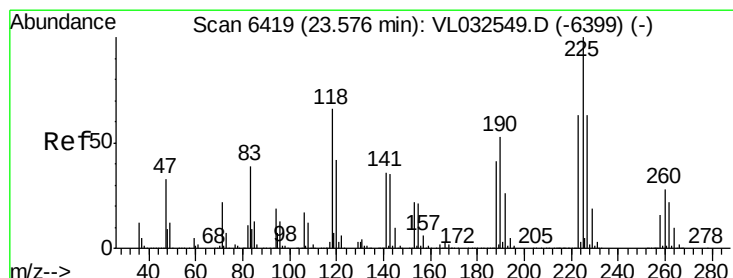
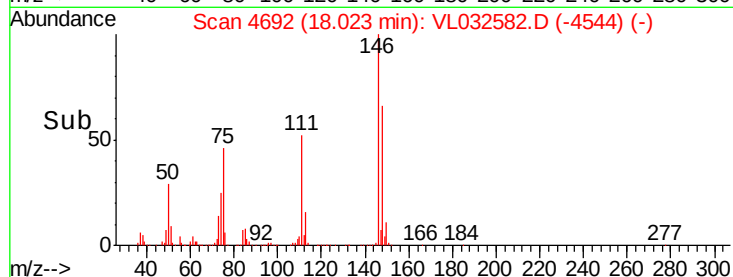
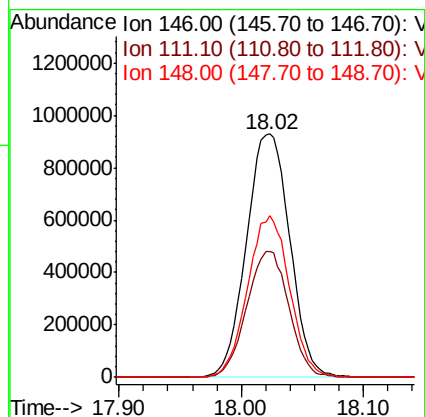
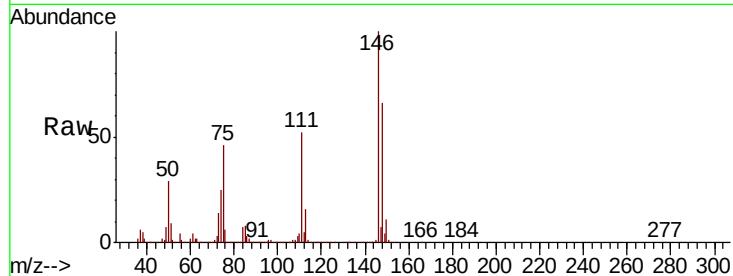
#77
 1,2-Dichlorobenzene
 Concen: 9.416 ppbv
 RT: 18.02 min Scan# 4692
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 2283197
 Ion Ratio Lower Upper
 146 100
 111 50.4 24.9 74.8
 148 64.5 32.0 96.0

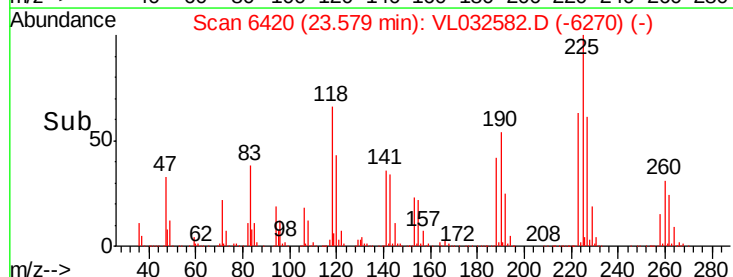
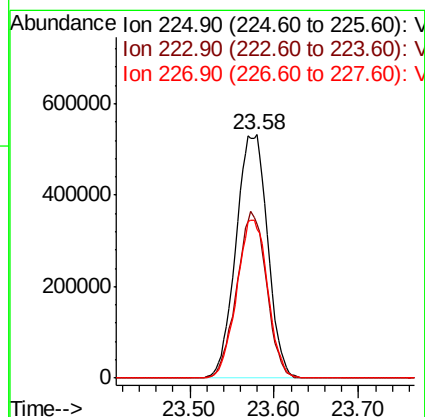
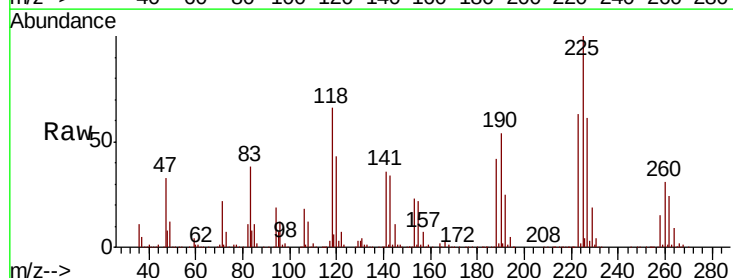
Manual Integrations
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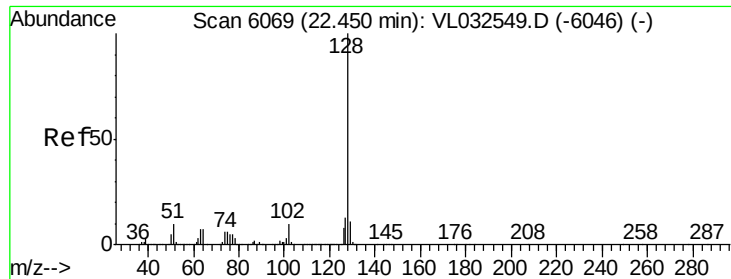
MMDadoda
 10/4/2018 7:07:03 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 15.275 ppbv m
 RT: 23.58 min Scan# 6420
 Delta R.T. -0.02 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Tgt Ion:225 Resp: 1390056
 Ion Ratio Lower Upper
 225 100
 223 64.2 50.6 76.0
 227 63.7 51.2 76.8





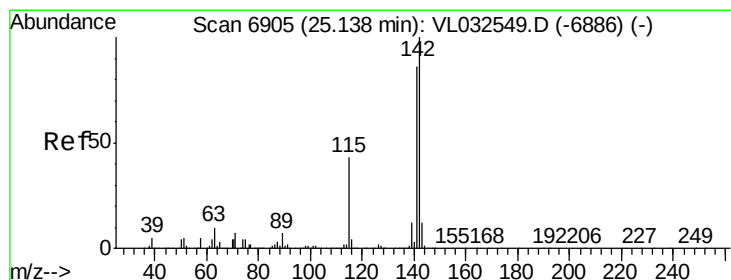
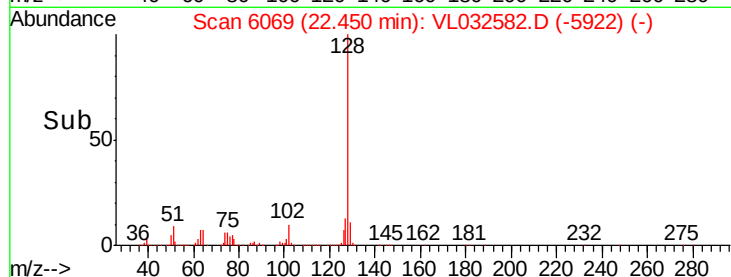
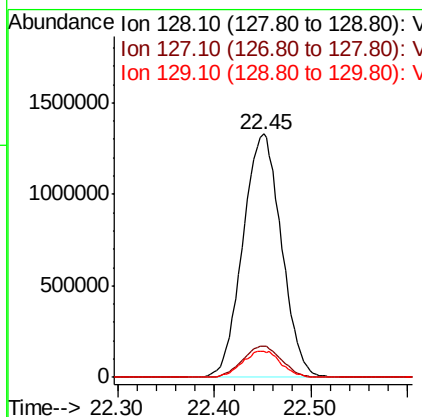
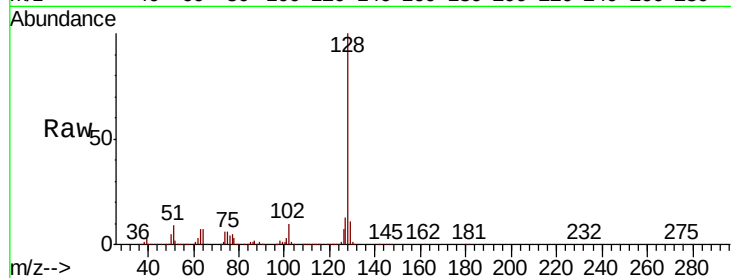
#79
Naphthalene
Concen: 12.226 ppbv
RT: 22.45 min Scan# 6069
Delta R.T. -0.03 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.7	8.5	12.7

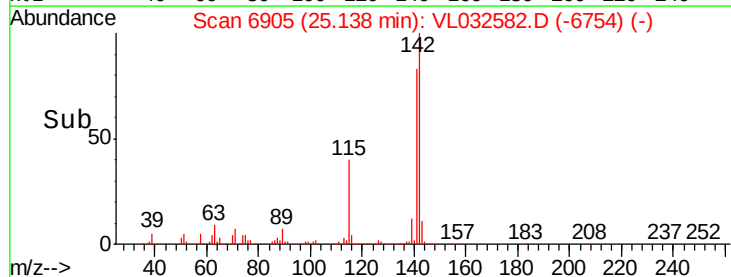
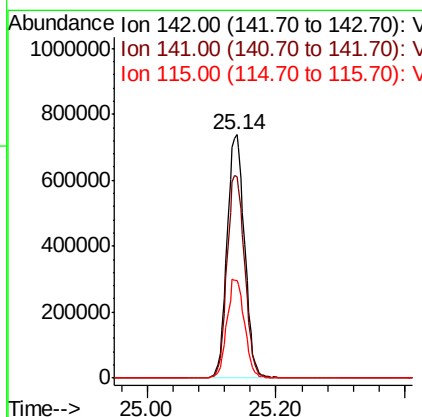
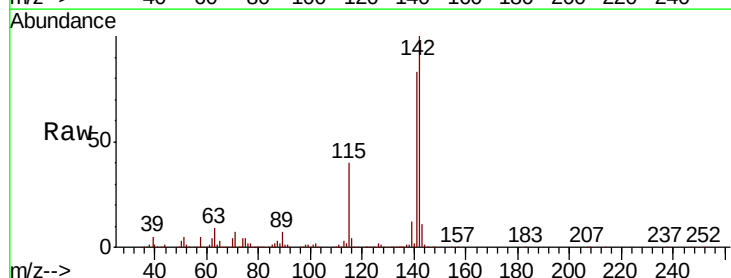
Manual Integrations
APPROVED

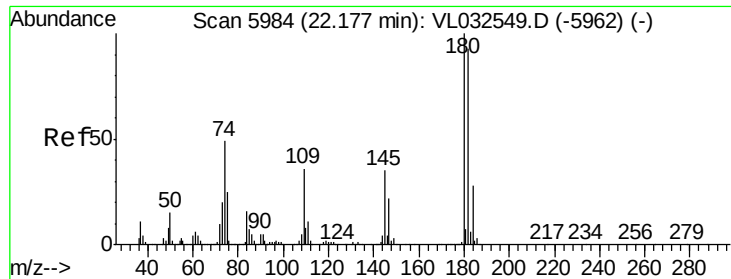
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10/4/2018 7:07:03 PM



#80
Naphthalene, 2-methyl-
Concen: 19.727 ppbv
RT: 25.14 min Scan# 6905
Delta R.T. -0.01 min
Lab File: VL032582.D
Acq: 3 Oct 2018 15:45

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.7	67.0	100.6
115	40.8	31.3	46.9





#81
 1,2,4-Trichlorobenzene
 Concen: 11.322 ppbv
 RT: 22.17 min Scan# 5983
 Delta R.T. -0.03 min
 Lab File: VL032582.D
 Acq: 3 Oct 2018 15:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.1	114.1
184	30.0	23.8	35.8

Manual Integrations
 APPROVED

MMDadoda
 10/4/2018 7:07:03 PM

