

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032228.D
 Acq On : 12 Jul 2018 18:03
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:09 PM

Quant Time: Jul 13 03:46:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 03:36:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1785009	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4650255	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	5124464m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	3800474	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.13	85	2115697	8.75	ppbv	100
3) Chlorodifluoromethane	3.06	51	2281336	10.18	ppbv	100
4) Chloromethane	3.23	50	1338529	11.04	ppbv	100
5) Vinyl Chloride	3.35	62	1290451	10.69	ppbv	100
6) Bromomethane	3.57	94	724190	10.51	ppbv	100
7) Chloroethane	3.66	64	451188	10.51	ppbv	100
8) Dichlorotetrafluoroethane	3.27	85	2700812	10.02	ppbv	100
9) Propene	3.09	41	1010439	9.84	ppbv	100
10) Heptane	8.34	43	2851965	9.65	ppbv	100
11) Trichlorofluoromethane	4.07	101	2289435	9.07	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1419908	8.49	ppbv	100
13) Ethanol	3.71	45	236308	7.72	ppbv	99
14) Bromoethene	3.85	108	701819	8.85	ppbv	100
15) Acetone	3.96	43	1814249	8.74	ppbv	100
16) 1,3-Butadiene	3.42	39	1160165	11.24	ppbv	100
17) tert-Butyl alcohol	4.42	59	996698	7.86	ppbv	100
18) 1,1-Dichloroethene	4.42	96	683880	8.61	ppbv	100
19) Isopropyl Alcohol	4.09	45	1376656	8.21	ppbv	99
20) Methylene Chloride	4.48	84	614855	8.15	ppbv	100
21) Allyl Chloride	4.55	41	1217342	8.73	ppbv	100
22) trans-1,2-Dichloroethene	5.04	96	699861	8.36	ppbv	100
23) Vinyl Acetate	5.23	43	3517971	9.32	ppbv	100
24) 1,1-Dichloroethane	5.17	63	2314454	9.47	ppbv	100
25) Ethyl Acetate	5.85	43	3883747	9.01	ppbv	100
26) Hexane	5.86	57	1770053	8.90	ppbv	100
27) Carbon Disulfide	4.69	76	1762756	9.10	ppbv	98
28) Methyl tert-Butyl Ether	5.19	73	3035116	8.76	ppbv	100
29) Chloroform	5.93	83	2694380	9.29	ppbv	100
30) Cyclohexane	7.33	84	1775741	9.34	ppbv	100
31) cis-1,2-Dichloroethene	5.72	61	1899507	9.51	ppbv	100
32) 1,1,1-Trichloroethane	6.71	97	3056631	9.92	ppbv	100
34) 2-Butanone	5.40	43	2799317	9.50	ppbv	100
35) Carbon Tetrachloride	7.22	117	3052010	9.49	ppbv	100
36) Benzene	7.09	78	4355113	9.52	ppbv	100
37) 1,2-Dichloroethane	6.50	62	2316247	10.11	ppbv	100
38) Trichloroethene	8.05	130	1439439	8.32	ppbv	100
39) 1,2-Dichloropropane	7.83	63	1727343	9.67	ppbv	100
40) 1,4-Dioxane	8.04	88	550521	8.23	ppbv #	99
41) Tetrahydrofuran	6.23	42	1741339	9.79	ppbv	100
42) Bromodichloromethane	8.01	83	3404035	9.76	ppbv	100
43) Methyl Methacrylate	8.23	69	1815652	9.80	ppbv	100

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	7290539	9.32	ppbv	100
45) t-1,3-Dichloropropene	9.51	75	2483862	10.72	ppbv	100
46) cis-1,3-Dichloropropene	8.93	75	2879204	10.32	ppbv	100
47) 1,1,2-Trichloroethane	9.71	97	1783492	9.66	ppbv	100
48) Dibromochloromethane	10.55	129	2860096	10.06	ppbv	100
49) Bromoform	13.30	173	2333672	9.86	ppbv	100
50) 4-Methyl-2-Pentanone	8.96	43	4906313	9.99	ppbv	100
51) 2-Hexanone	10.36	43	4213497	10.35	ppbv	100
52) Tetrachloroethene	11.47	164	1378818	8.47	ppbv	100
53) Toluene	10.04	91	4985772	9.24	ppbv	100
54) 1,2-Dibromoethane	10.86	107	2672170	9.66	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.38	131	1975767	8.66	ppbv	100
57) Chlorobenzene	12.40	112	3701598	8.38	ppbv	100
58) Ethyl Benzene	12.96	91	6937597	8.42	ppbv	100
59) m/p-Xylene	13.25	91	10985101m	16.61	ppbv	
60) o-Xylene	13.95	91	5349887	8.13	ppbv	100
61) Styrene	13.78	104	4424484	8.30	ppbv	100
62) Isopropylbenzene	14.93	105	7552271	7.53	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.94	83	3962006	7.72	ppbv	100
64) n-propylbenzene	15.82	120	1971208	7.57	ppbv	100
65) tert-Butylbenzene	17.01	119	6175556	7.01	ppbv	100
66) Benzyl Chloride	17.26	91	4218123	7.91	ppbv	100
67) sec-Butylbenzene	17.56	105	9214194	7.13	ppbv	100
69) p-Isopropyltoluene	17.91	119	7392607	7.17	ppbv	100
70) n-Butylbenzene	18.81	91	8256123	7.59	ppbv	100
71) 2-Chlorotoluene	15.72	91	6076190	7.78	ppbv	100
72) 4-Ethyltoluene	16.10	105	6461558	7.64	ppbv	100
73) 1,3,5-Trimethylbenzene	16.26	105	6105189	7.67	ppbv	100
74) 1,2,4-Trimethylbenzene	17.03	105	5945770	7.39	ppbv	100
75) 1,3-Dichlorobenzene	17.27	146	3288650	7.23	ppbv	100
76) 1,4-Dichlorobenzene	17.41	146	3374382	7.34	ppbv	100
77) 1,2-Dichlorobenzene	18.09	146	3294633	7.27	ppbv	100
78) Hexachloro-1,3-Butadiene	23.63	225	986377	6.38	ppbv	100
79) Naphthalene	22.52	128	6070845	8.45	ppbv	100
80) Naphthalene, 2-methyl-	25.19	142	3255607	12.82	ppbv	100
81) 1,2,4-Trichlorobenzene	22.25	180	2700064	8.36	ppbv	100

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

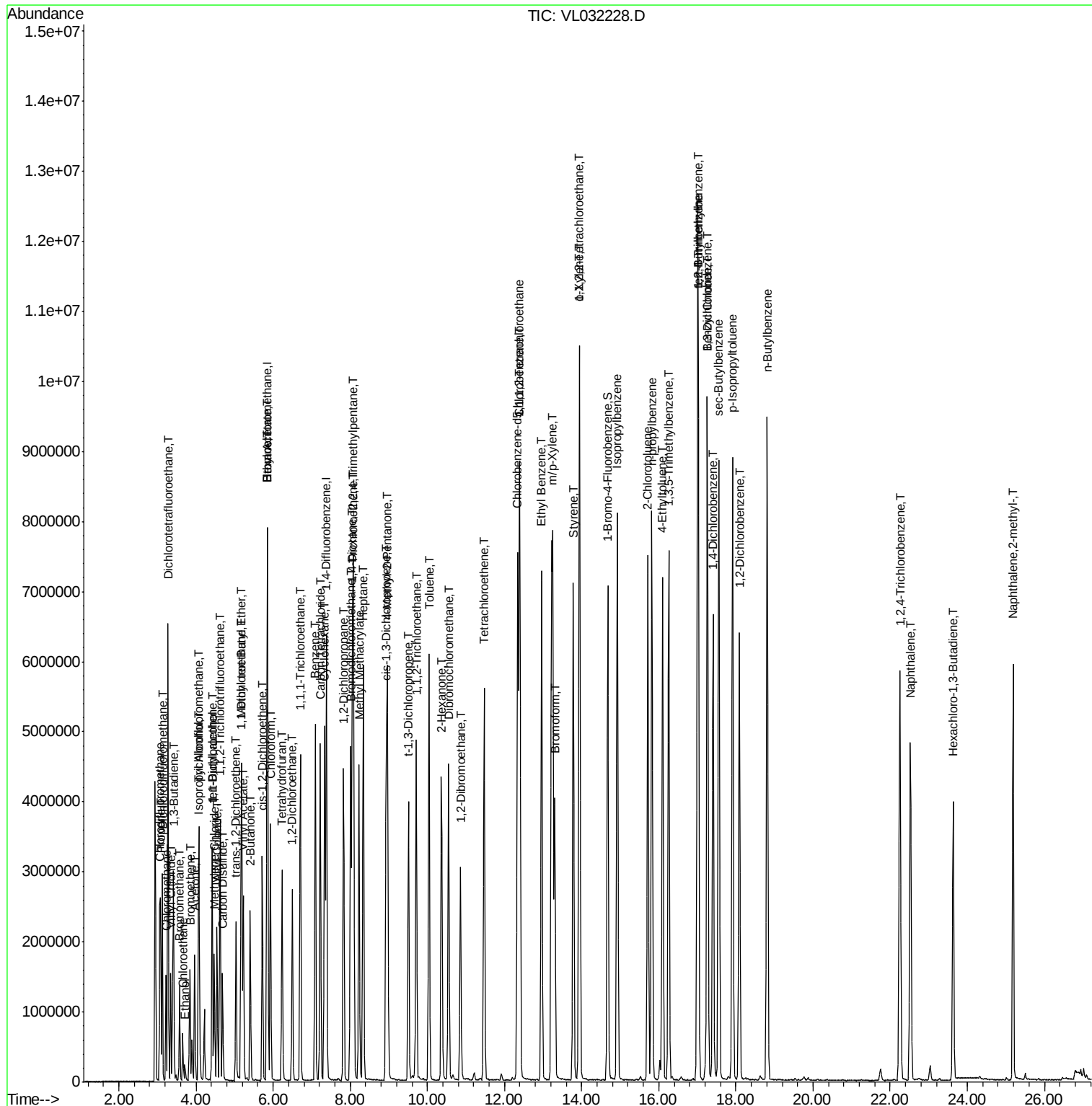
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL071218\  
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Acq On    : 12 Jul 2018   18:03  
Operator  : SY/AP  
Sample    : VSTDICCC010  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1    Sample Multiplier: 1
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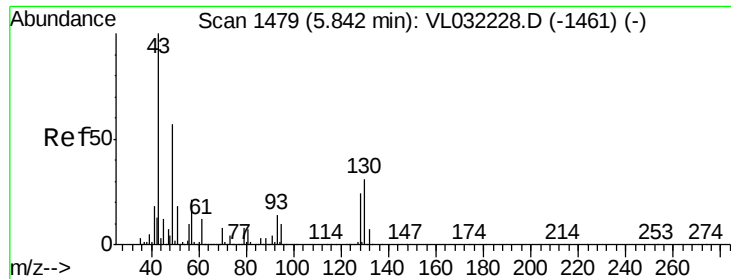
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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Quant Time: Jul 13 03:46:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
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QLast Update : Fri Jul 13 03:36:40 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1785009

Ion Ratio Lower Upper

49 100

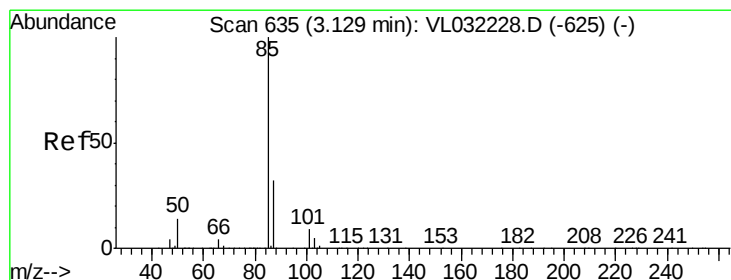
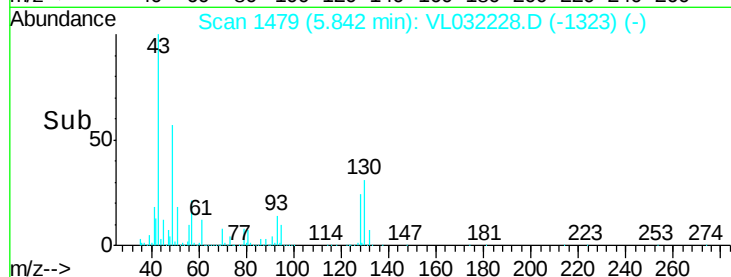
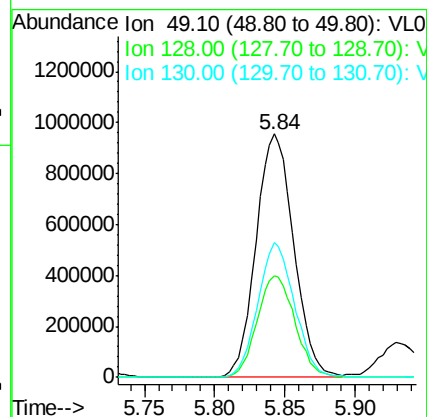
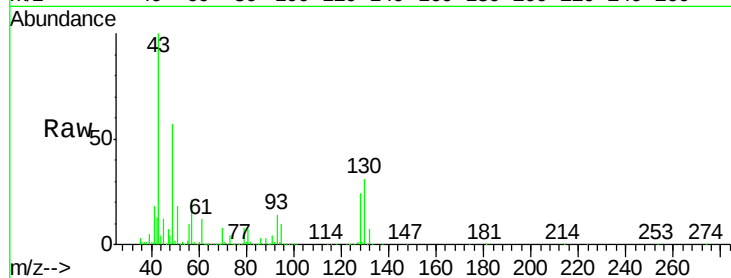
128 41.9 20.9 62.8

130 54.0 27.0 81.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 8.75 ppbv

RT: 3.13 min Scan# 635

Delta R.T. 0.00 min

Lab File: VL032228.D

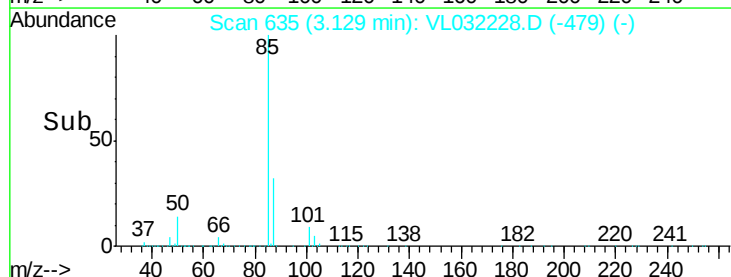
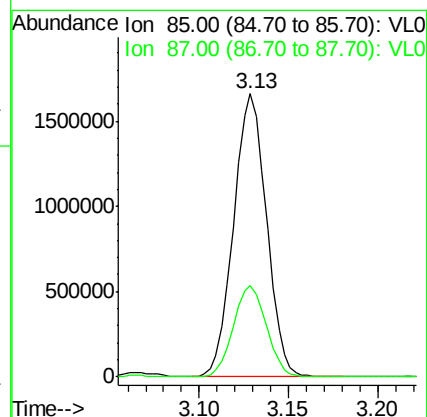
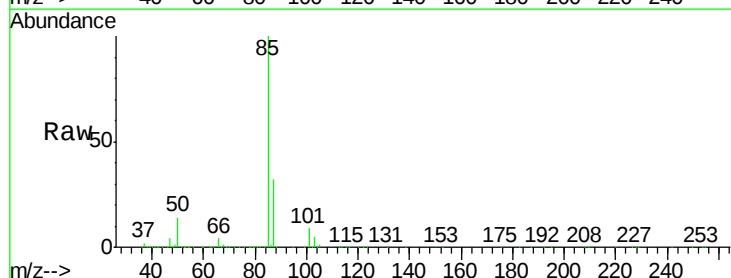
Acq: 12 Jul 2018 18:03

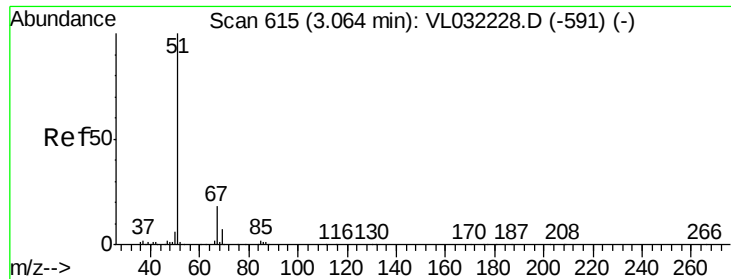
Tgt Ion: 85 Resp: 2115697

Ion Ratio Lower Upper

85 100

87 32.2 25.8 38.6





#3

Chlorodifluoromethane

Concen: 10.18 ppbv

RT: 3.06 min Scan# 615

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Tot Ion: 51 Resp: 2281336

Ion Ratio Lower Upper

51 100

67 18.4 14.6 22.0

Instrument :

MSVOA_L

ClientSampleId :

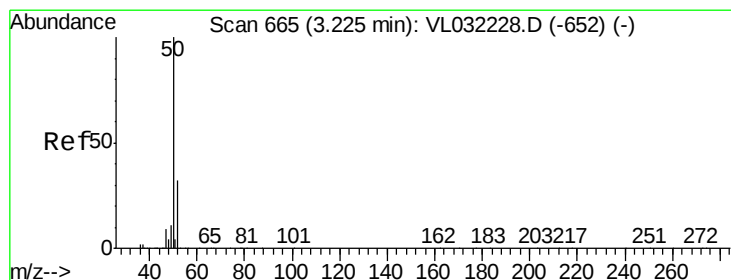
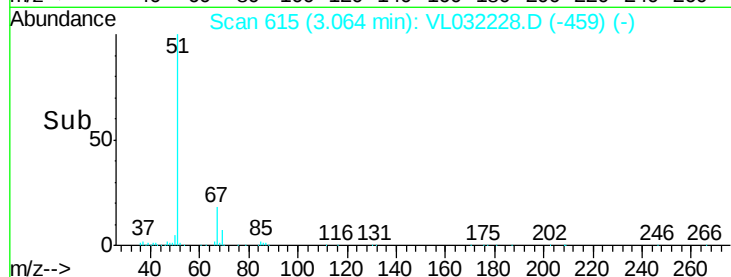
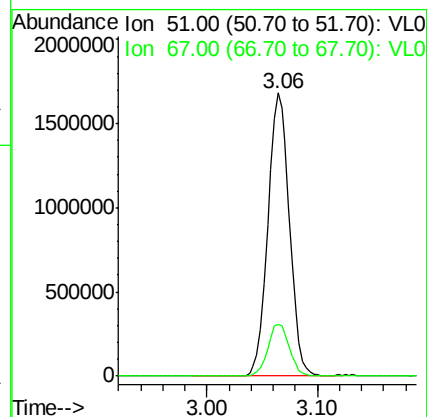
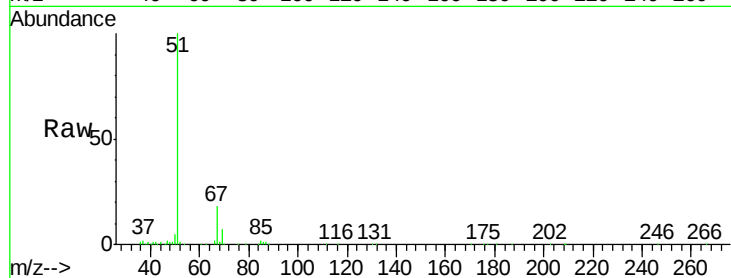
VSTDICCC010

Manual Integrations

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#4

Chloromethane

Concen: 11.04 ppbv

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VL032228.D

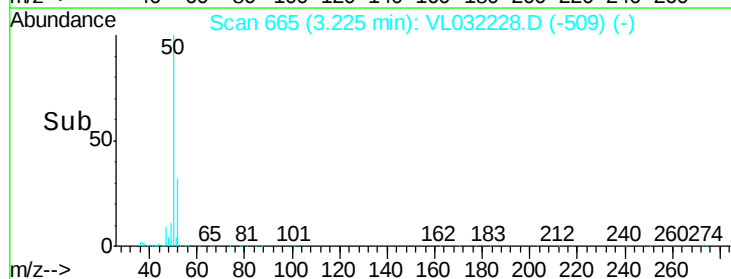
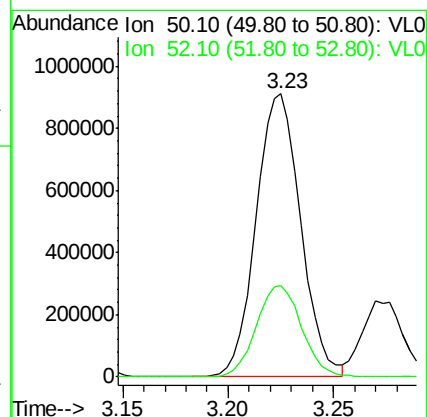
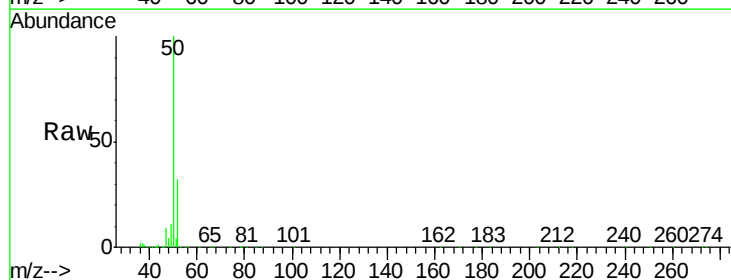
Acq: 12 Jul 2018 18:03

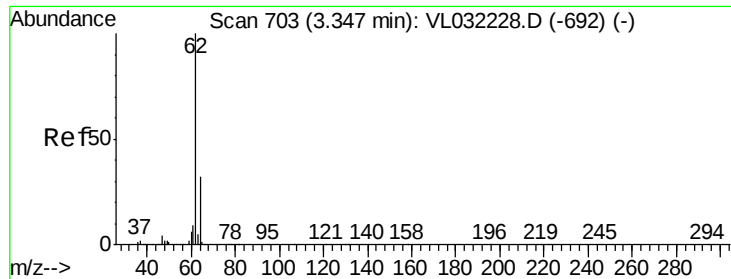
Tgt Ion: 50 Resp: 1338529

Ion Ratio Lower Upper

50 100

52 32.1 25.7 38.5





#5

Vinyl Chloride

Concen: 10.69 ppbv

RT: 3.35 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 1290451

Ion Ratio Lower Upper

62 100

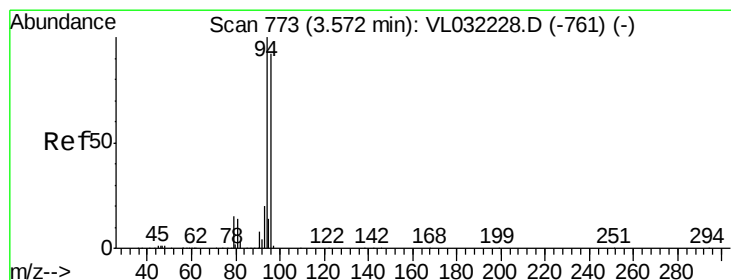
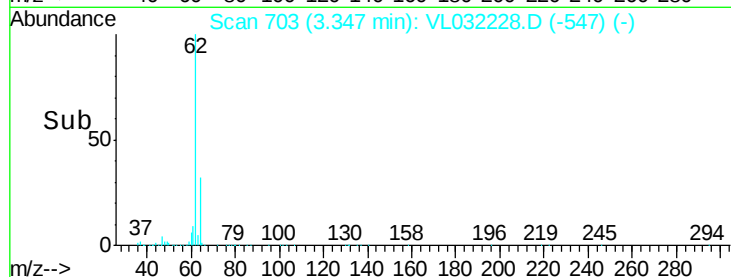
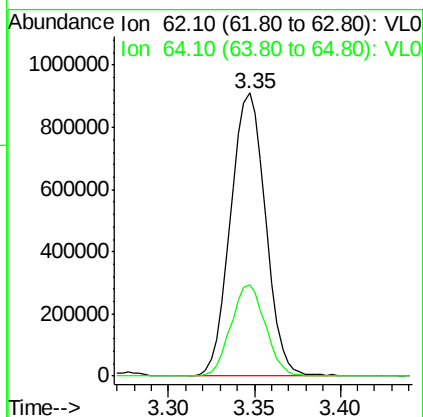
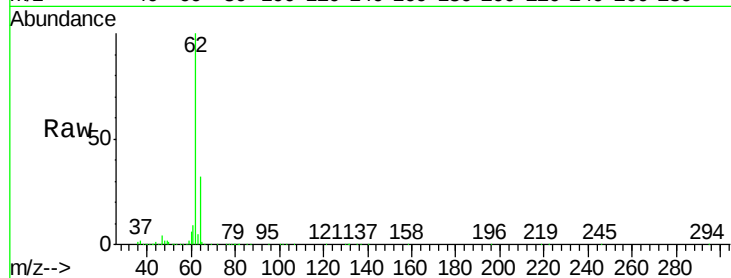
64 32.2 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 10.51 ppbv

RT: 3.57 min Scan# 773

Delta R.T. 0.00 min

Lab File: VL032228.D

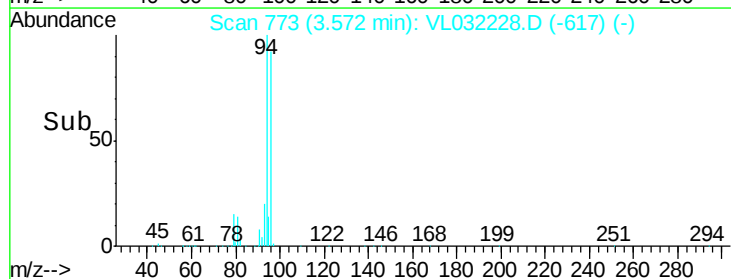
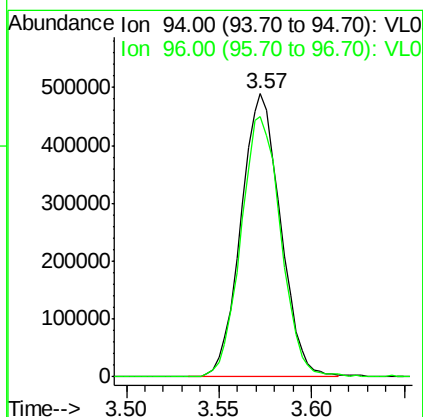
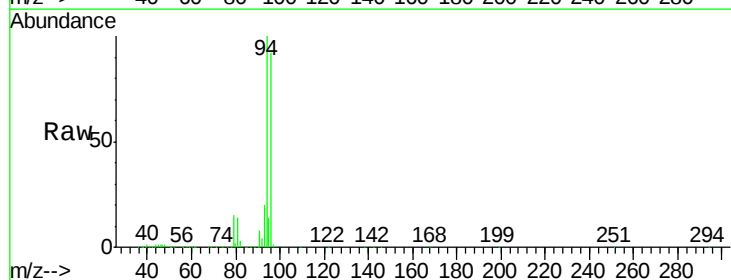
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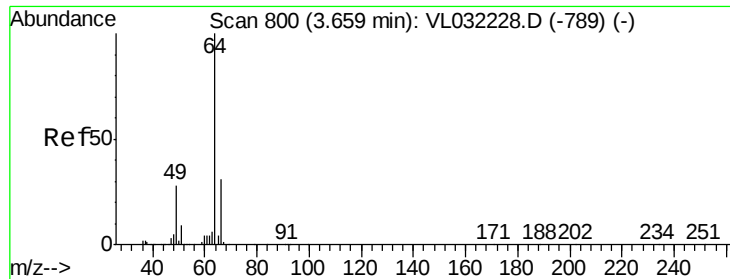
Tgt Ion: 94 Resp: 724190

Ion Ratio Lower Upper

94 100

96 91.9 73.5 110.3





#7

Chloroethane

Concen: 10.51 ppbv

RT: 3.66 min Scan# 800

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 451188

Ion Ratio Lower Upper

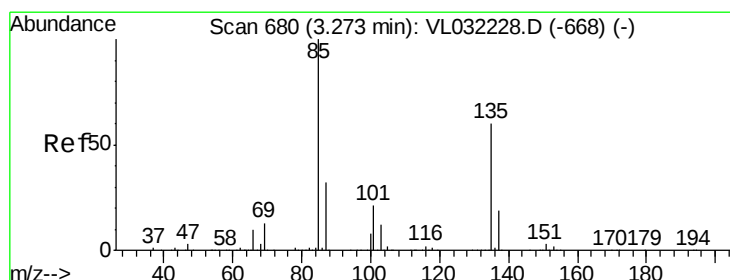
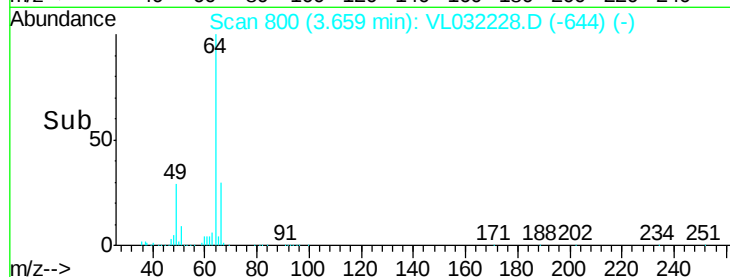
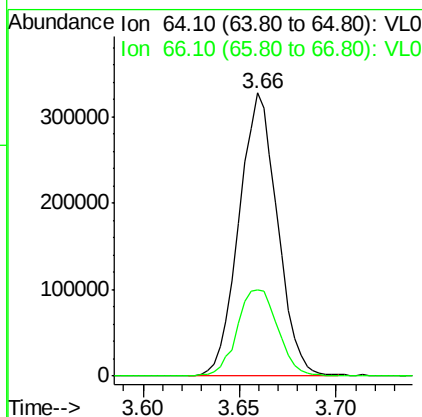
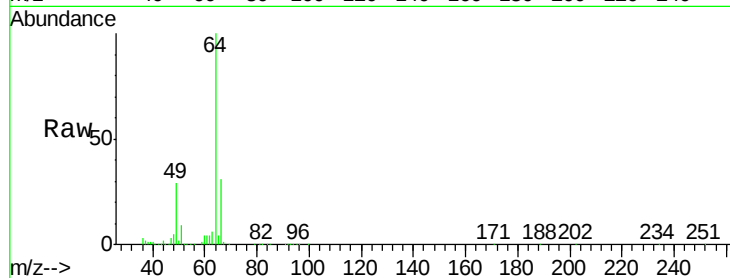
64 100

66 30.5 24.4 36.6

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 10.02 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL032228.D

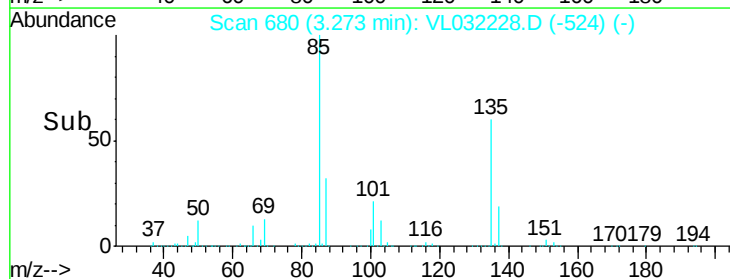
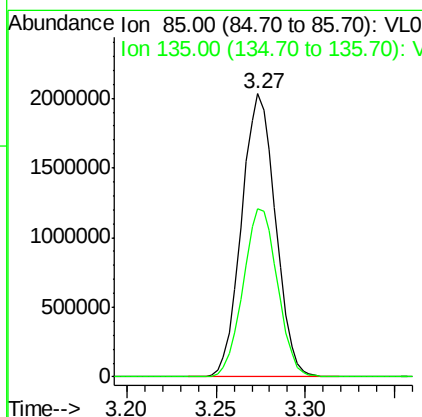
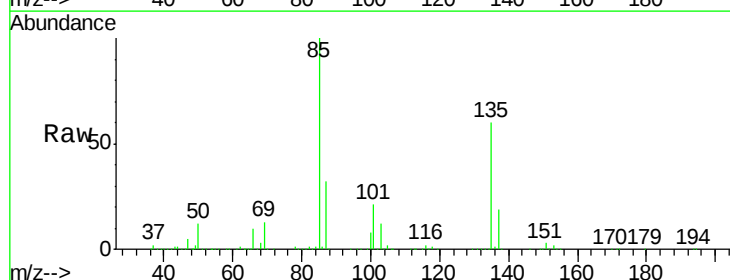
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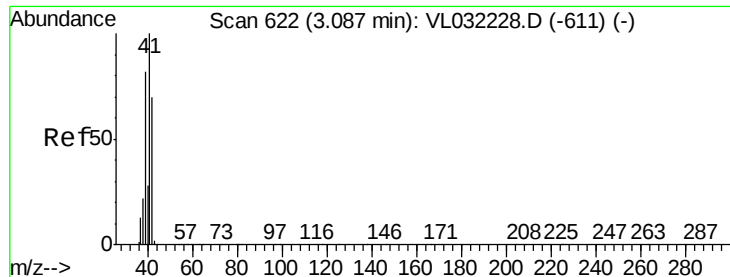
Tgt Ion: 85 Resp: 2700812

Ion Ratio Lower Upper

85 100

135 60.5 48.6 72.8





#9

Propene

Concen: 9.84 ppbv

RT: 3.09 min Scan# 622

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 1010439

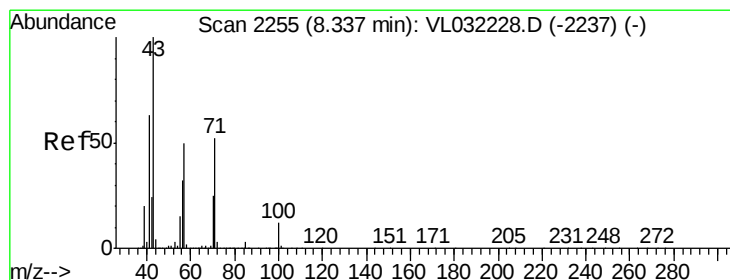
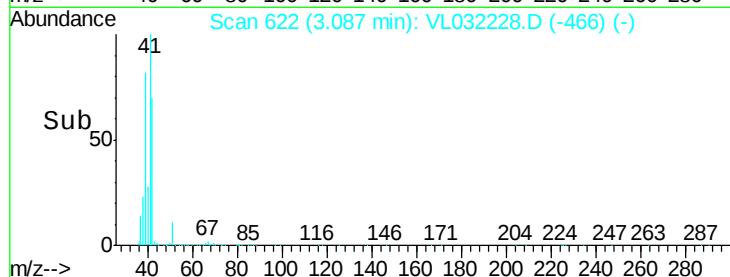
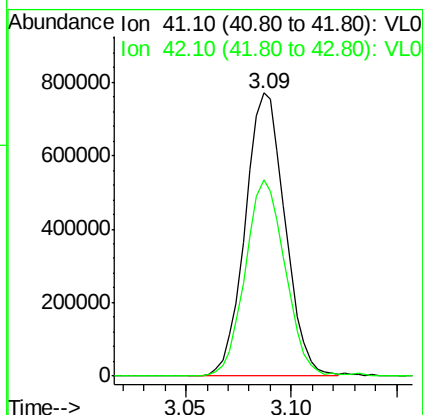
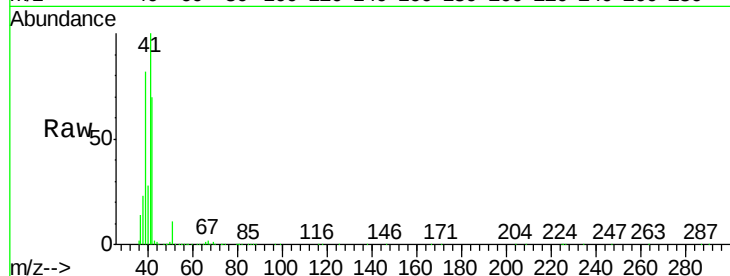
Ion Ratio Lower Upper

41 100

42 70.4 56.2 84.4

Manual Integrations
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7/13/2018 5:22:09 PM



#10

Heptane

Concen: 9.65 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. 0.00 min

Lab File: VL032228.D

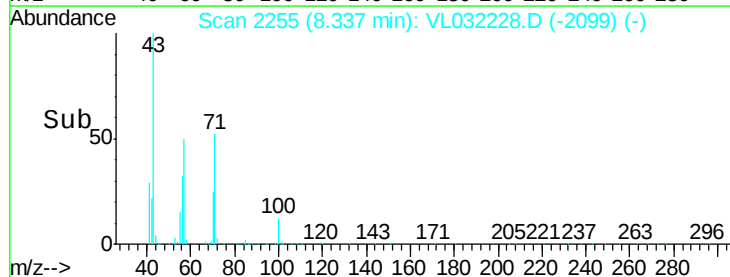
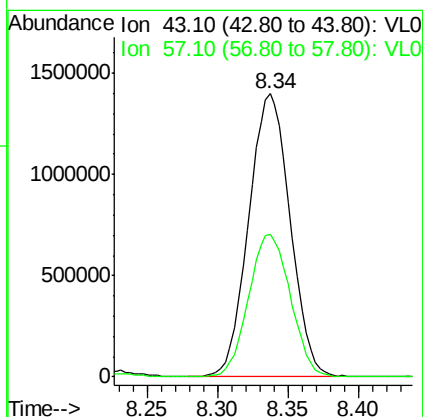
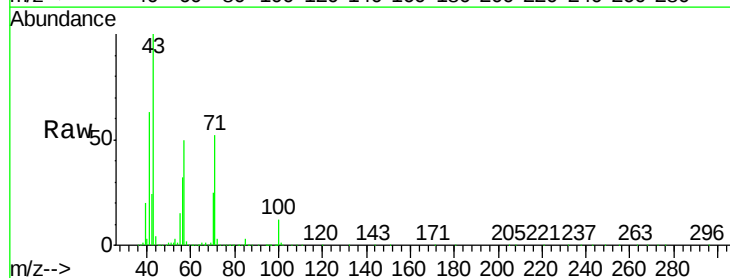
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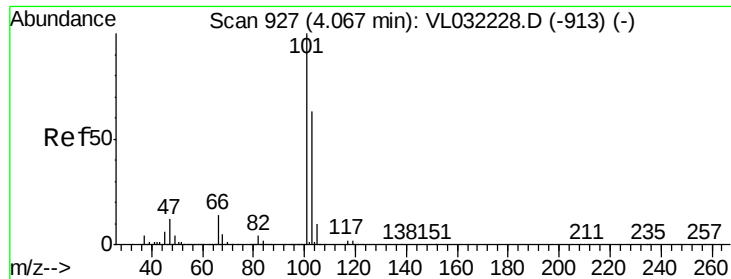
Tgt Ion: 43 Resp: 2851965

Ion Ratio Lower Upper

43 100

57 51.1 40.7 61.1





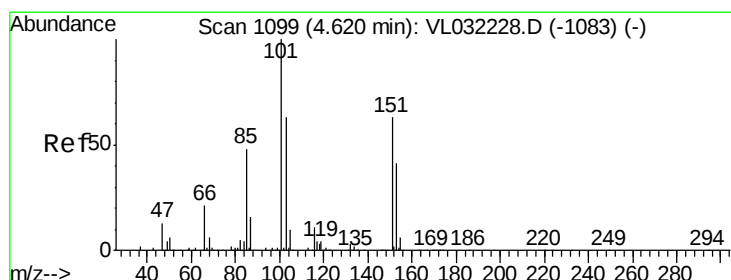
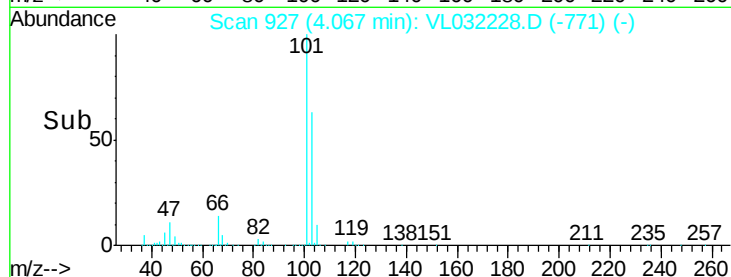
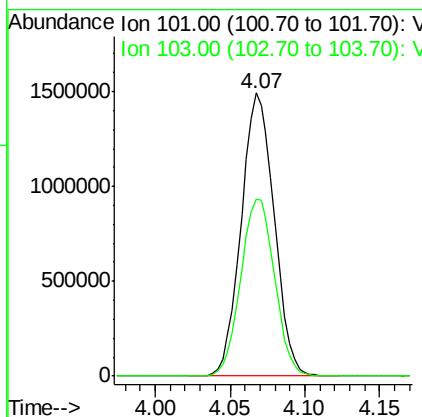
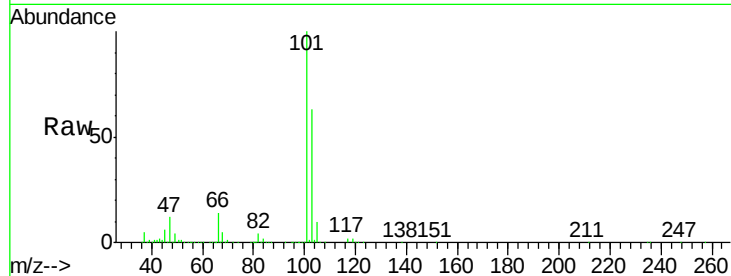
#11
 Trichlorofluoromethane
 Concen: 9.07 ppbv
 RT: 4.07 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:101 Resp: 2289435
 Ion Ratio Lower Upper
 101 100
 103 62.7 50.2 75.2

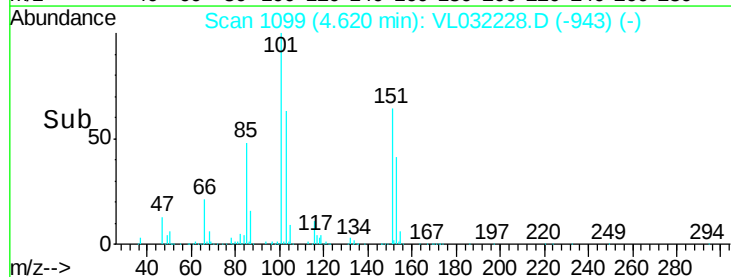
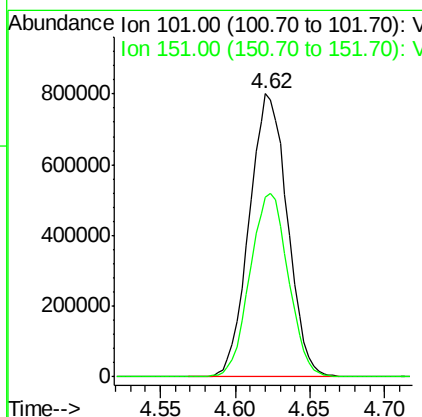
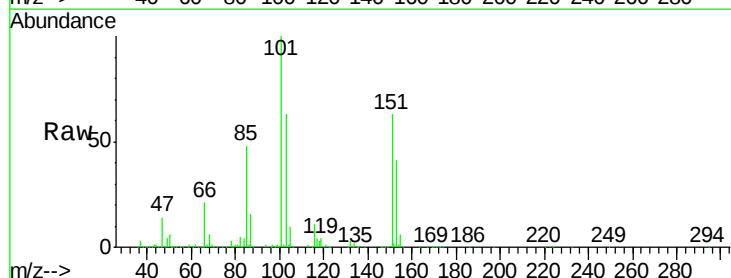
Manual Integrations
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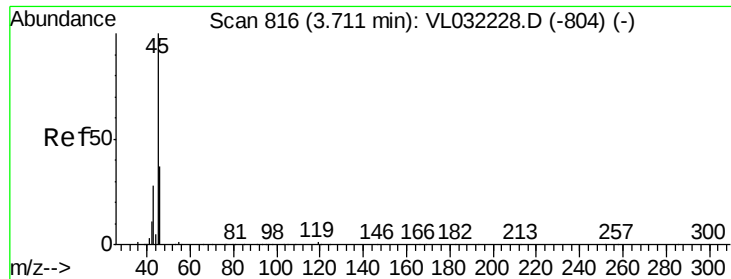
MMDadoda
 7/13/2018 5:22:09 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.49 ppbv
 RT: 4.62 min Scan# 1099
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Tgt Ion:101 Resp: 1419908
 Ion Ratio Lower Upper
 101 100
 151 65.2 52.2 78.2





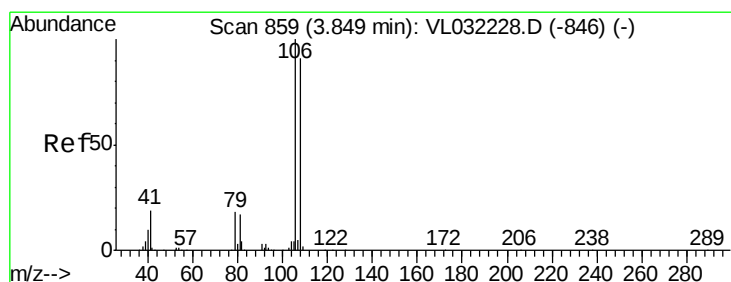
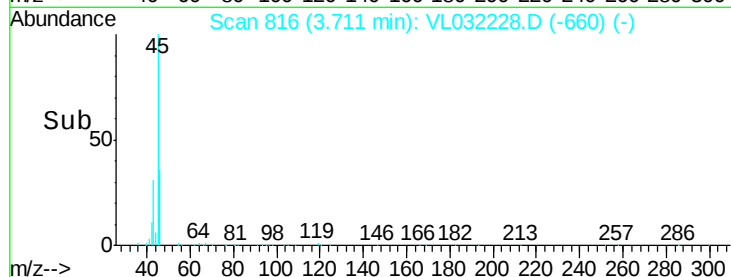
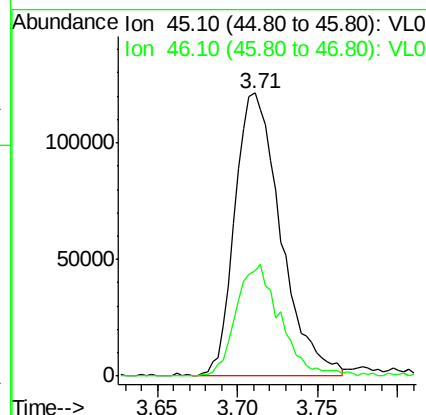
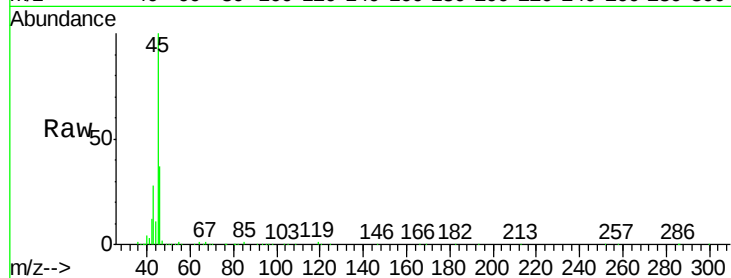
#13
Ethanol
Concen: 7.72 ppbv
RT: 3.71 min Scan# 816
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.3	15.5	61.9

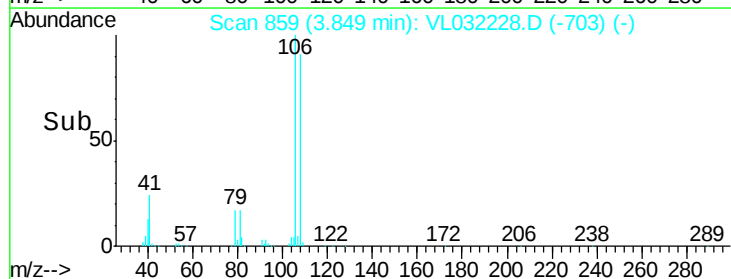
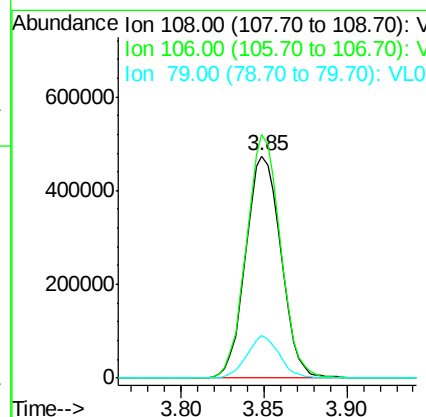
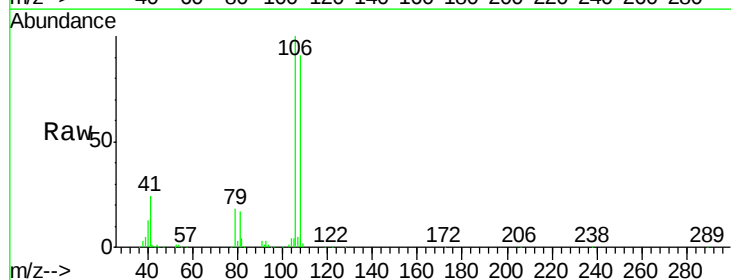
Manual Integrations
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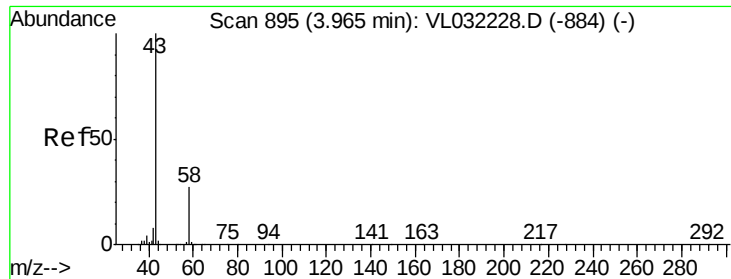
MMDadoda
7/13/2018 5:22:09 PM



#14
Bromoethene
Concen: 8.85 ppbv
RT: 3.85 min Scan# 859
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.8	85.5	128.3
79	17.8	14.2	21.4





#15

Acetone

Concen: 8.74 ppbv

RT: 3.96 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1814249

Ion Ratio Lower Upper

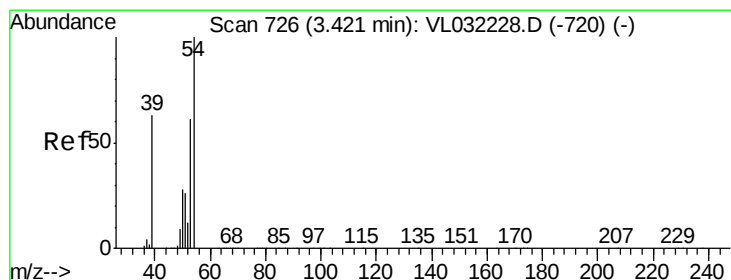
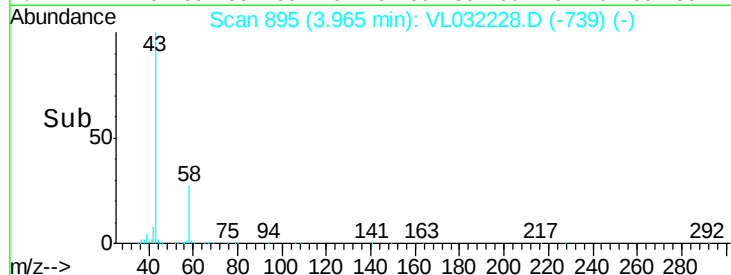
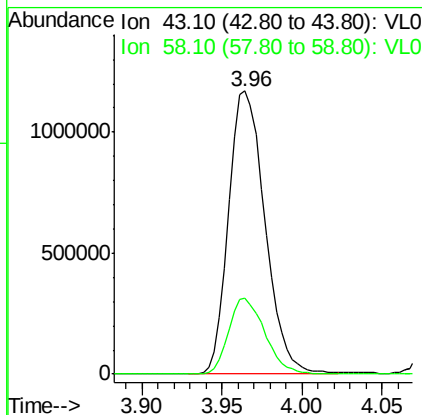
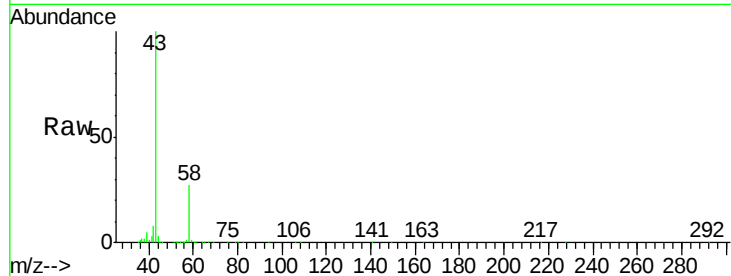
43 100

58 27.0 21.5 32.3

Manual Integrations
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#16

1,3-Butadiene

Concen: 11.24 ppbv

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VL032228.D

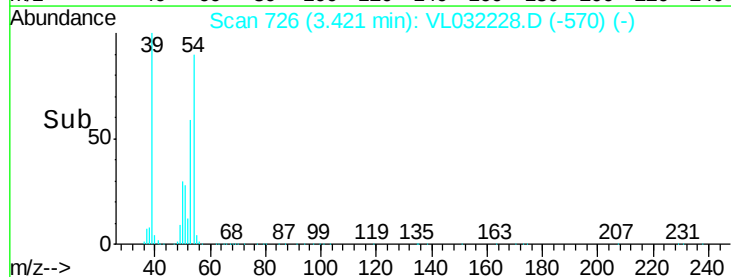
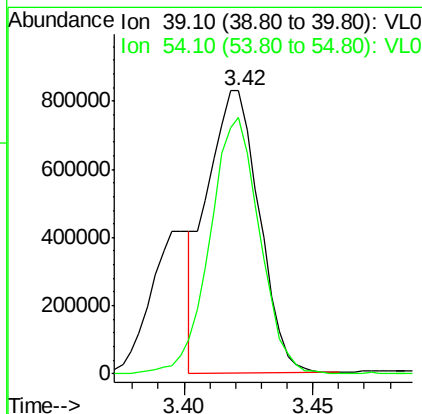
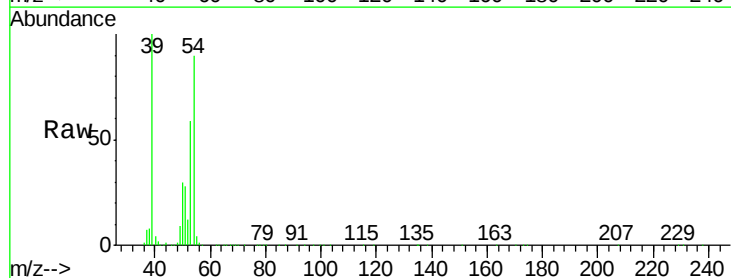
Acq: 12 Jul 2018 18:03

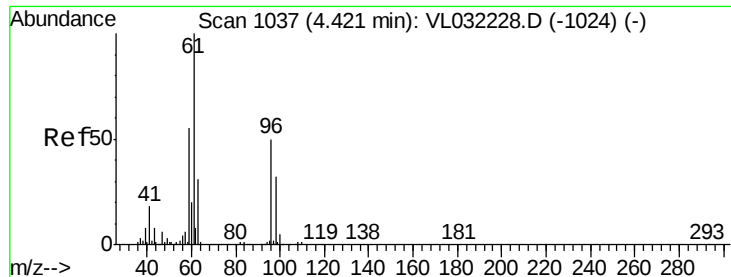
Tgt Ion: 39 Resp: 1160165

Ion Ratio Lower Upper

39 100

54 87.5 70.0 105.0





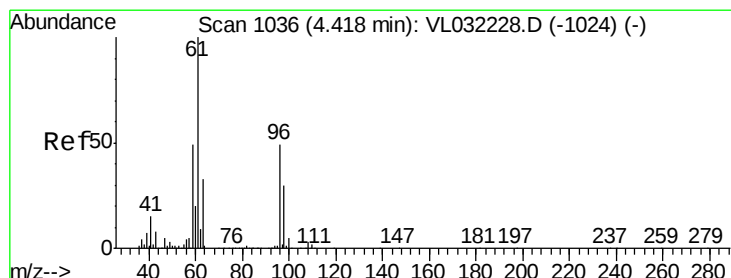
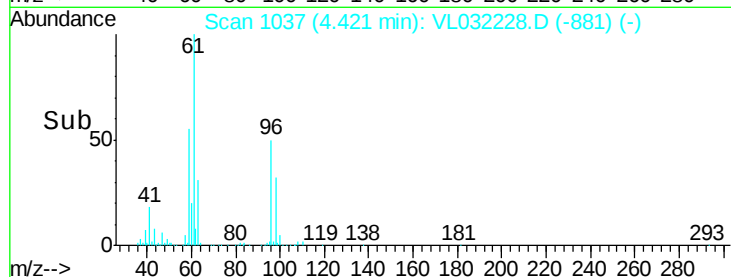
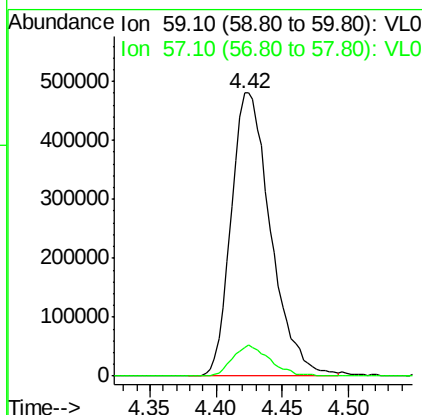
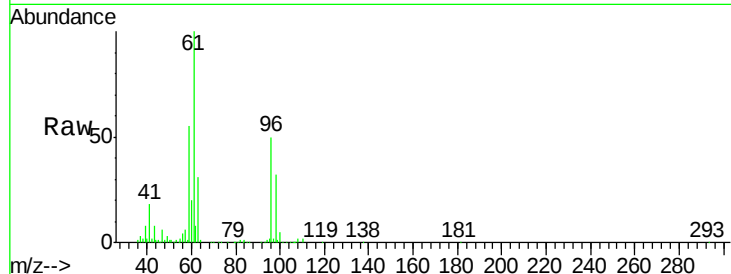
#17
 tert-Butyl alcohol
 Concen: 7.86 ppbv
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDICCC010

Tot Ion: 59 Resp: 996698
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.4 12.6

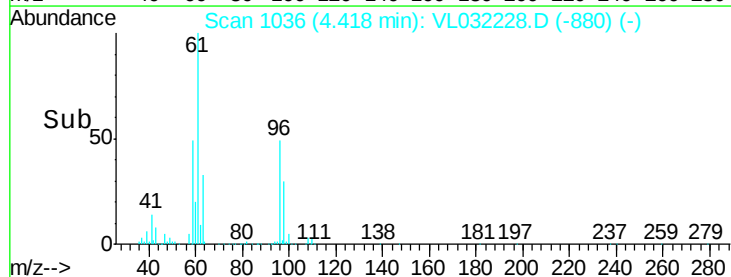
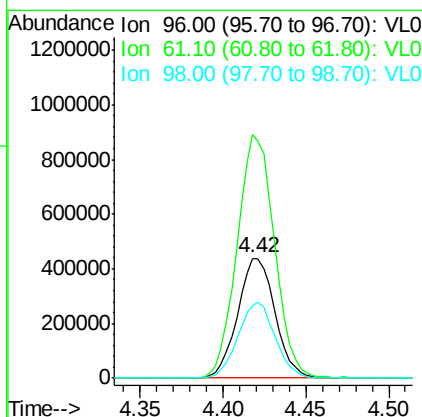
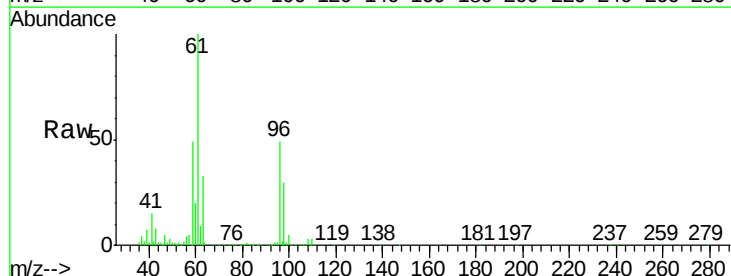
Manual Integrations
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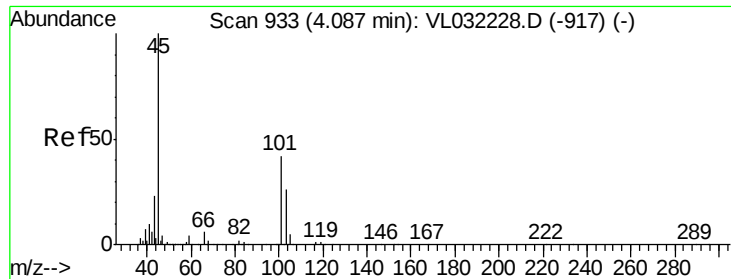
MMDadoda
 7/13/2018 5:22:09 PM



#18
 1,1-Dichloroethene
 Concen: 8.61 ppbv
 RT: 4.42 min Scan# 1036
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Tgt Ion: 96 Resp: 683880
 Ion Ratio Lower Upper
 96 100
 61 203.7 163.0 244.4
 98 60.6 48.5 72.7





#19

Isopropyl Alcohol

Concen: 8.21 ppbv

RT: 4.09 min Scan# 933

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 45 Resp: 1376656

Ion Ratio Lower Upper

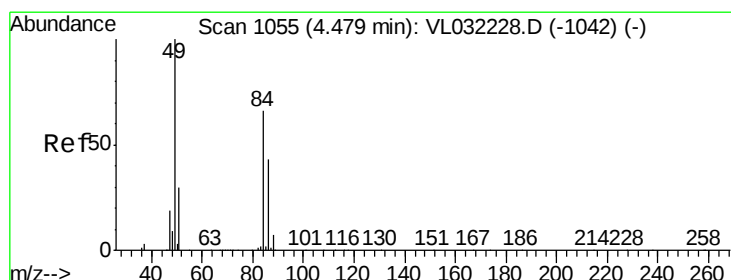
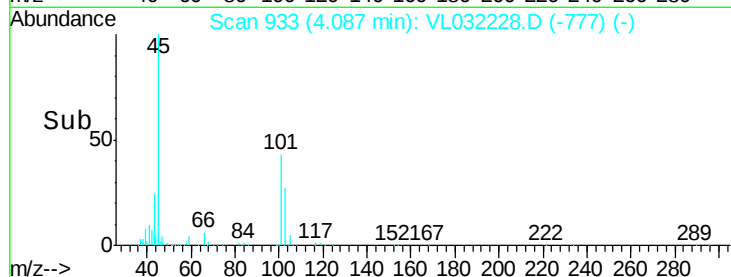
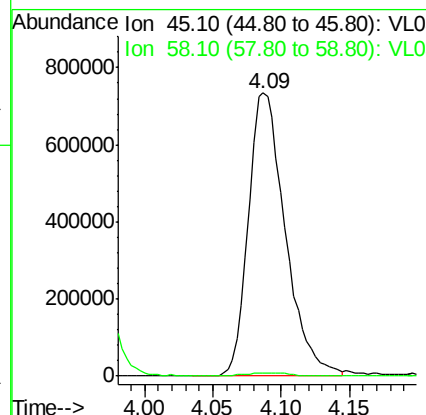
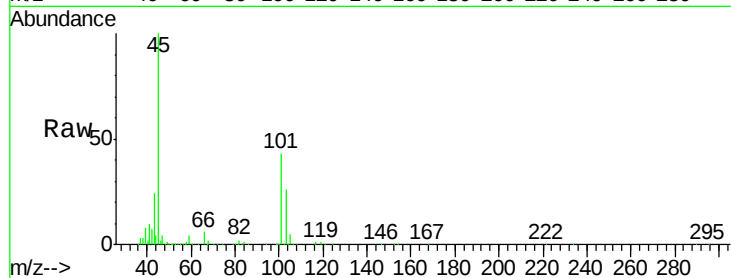
45 100

58 1.9 1.3 1.9

Manual Integrations
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7/13/2018 5:22:09 PM



#20

Methylene Chloride

Concen: 8.15 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Tgt Ion: 84 Resp: 614855

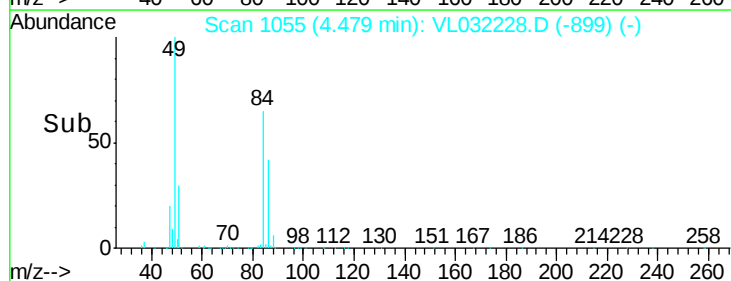
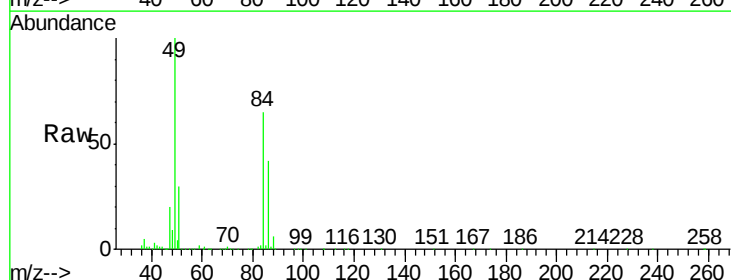
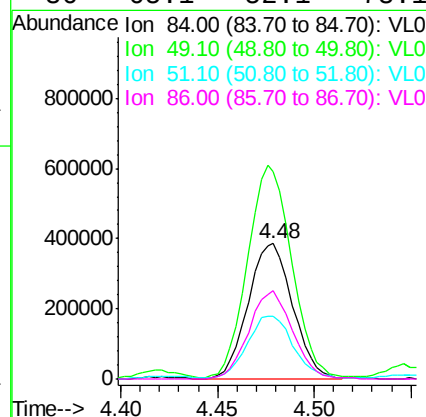
Ion Ratio Lower Upper

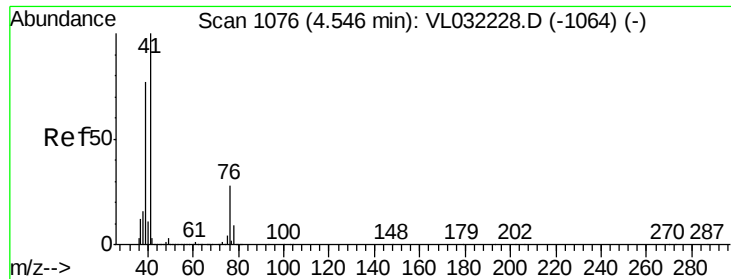
84 100

49 152.2 121.8 182.6

51 45.4 36.3 54.5

86 65.1 52.1 78.1





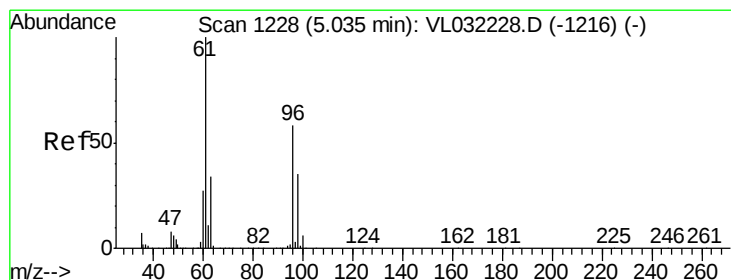
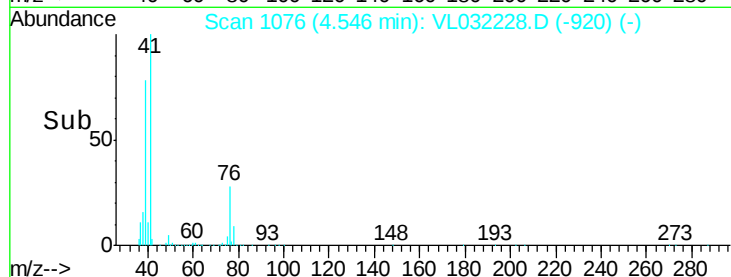
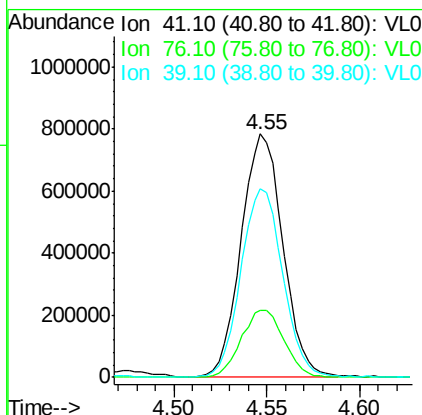
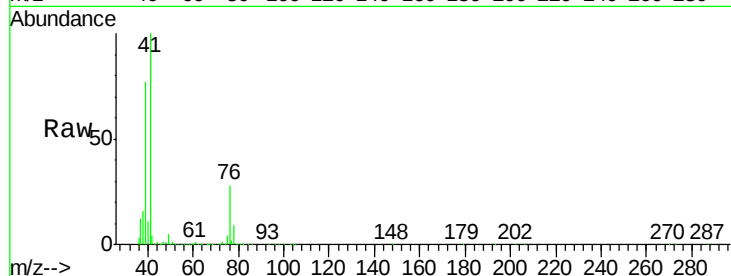
#21
Allvl Chloride
Concen: 8.73 ppbv
RT: 4.55 min Scan# 1076
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.6	22.9	34.3
39	78.0	62.3	93.5

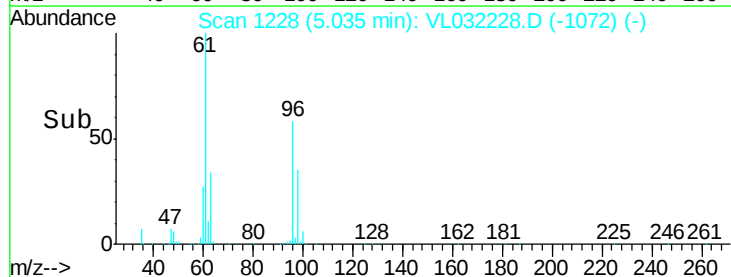
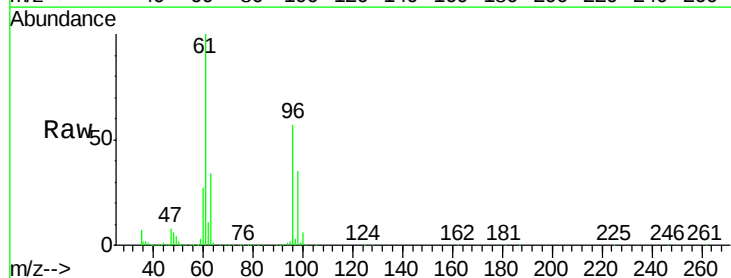
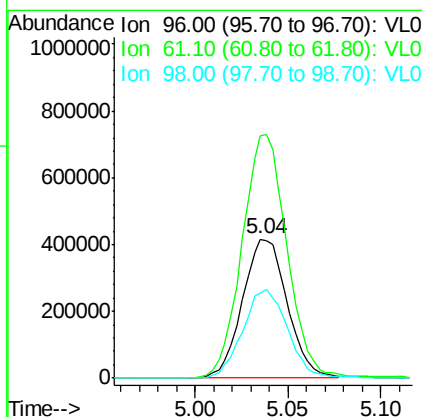
Manual Integrations
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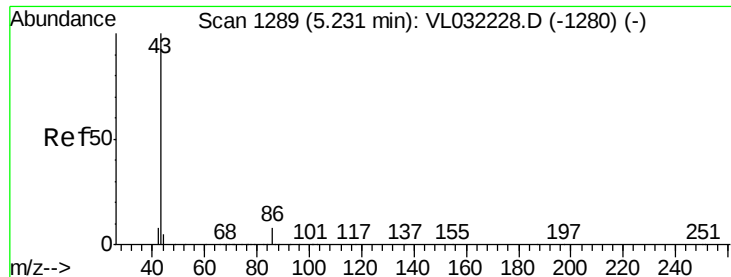
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 8.36 ppbv
RT: 5.04 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.9	139.1	208.7
98	60.5	48.4	72.6





#23

Vinyl Acetate

Concen: 9.32 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 3517971

Ion Ratio Lower Upper

43 100

86 7.4 5.9 8.9

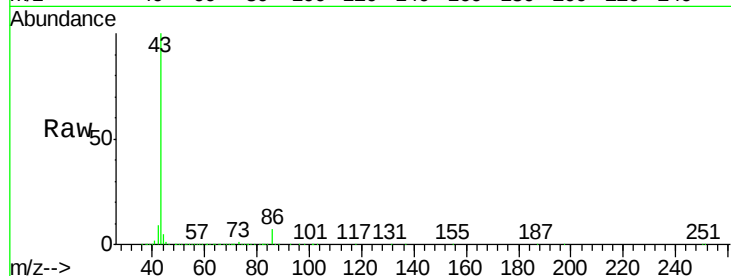
42 8.8 7.0 10.6

44 5.2 4.2 6.2

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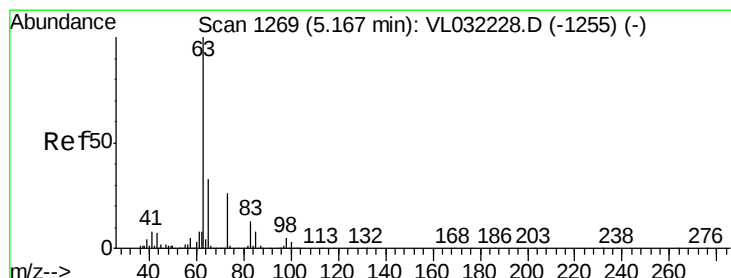
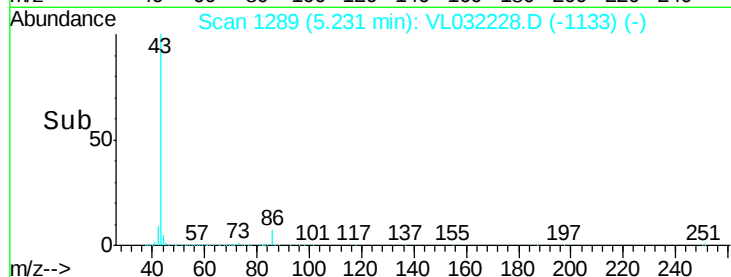
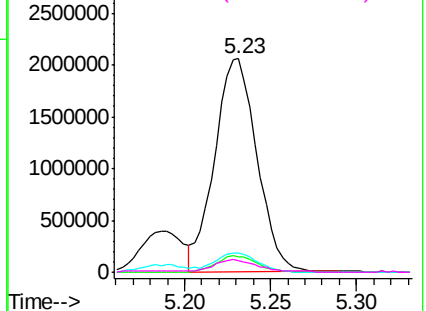


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.47 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

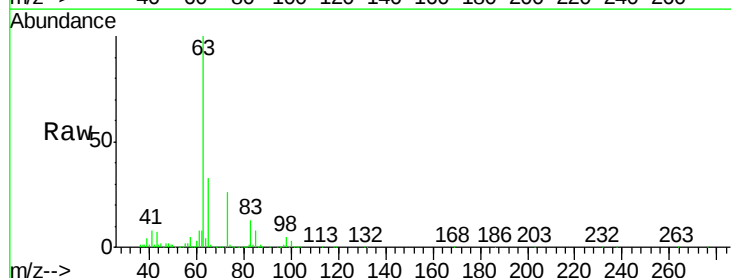
Tgt Ion: 63 Resp: 2314454

Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.1

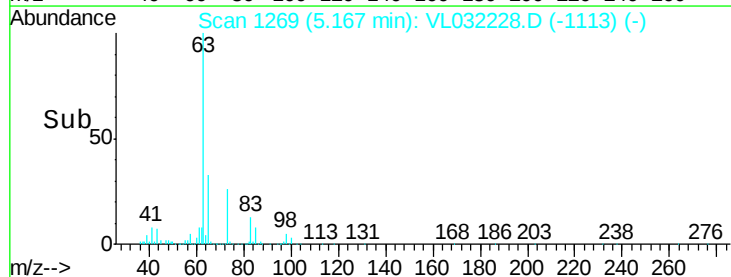
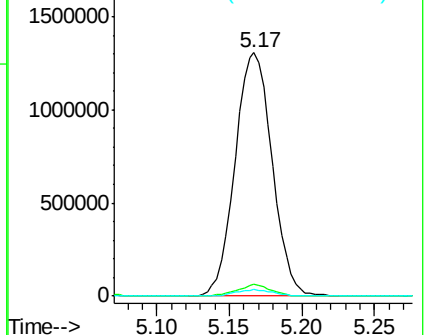
100 2.9 1.5 4.4

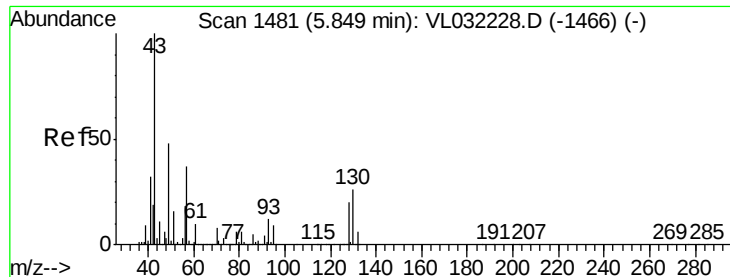


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





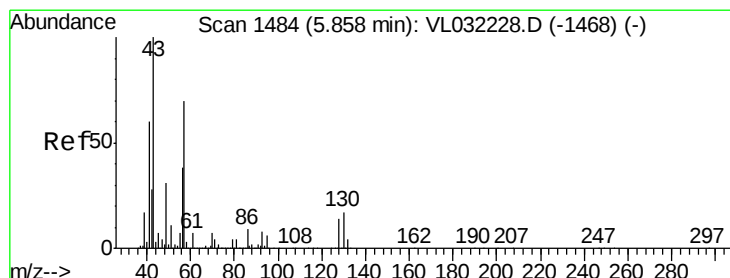
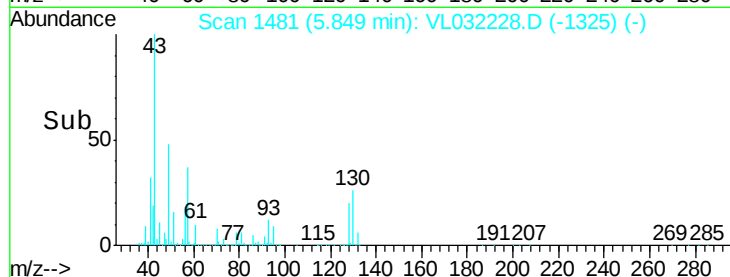
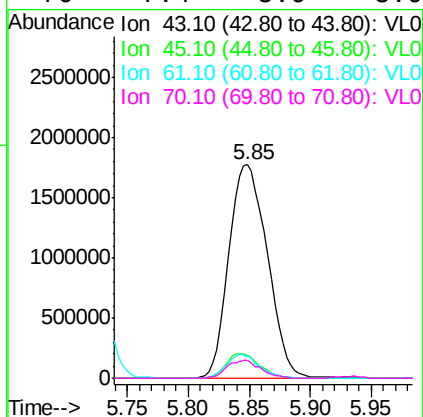
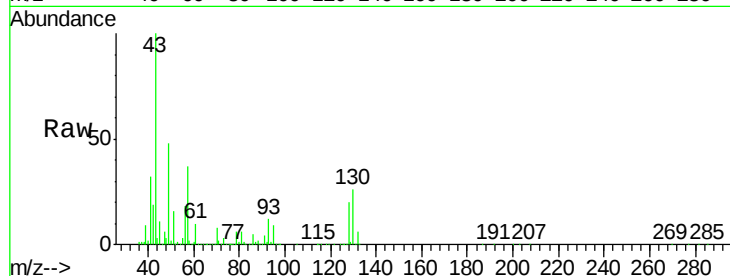
#25
Ethyl Acetate
Concen: 9.01 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:	43	Resp:	3883747
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.0	12.0
61	9.6	7.7	11.5
70	7.4	5.9	8.9

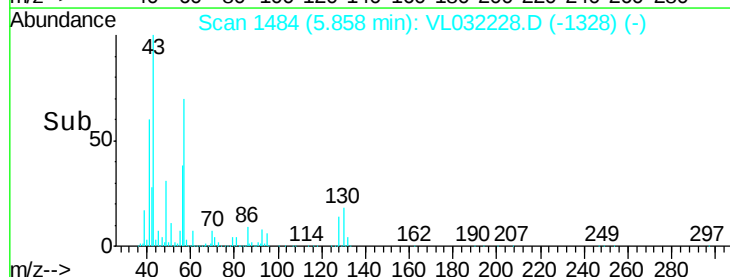
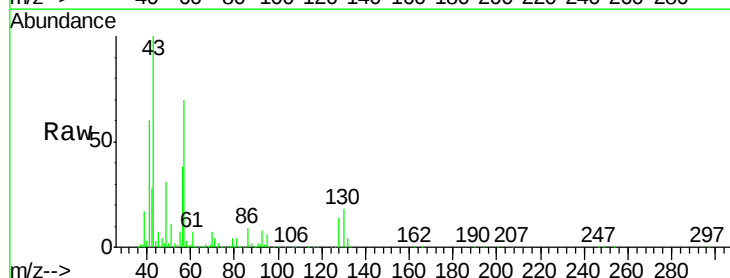
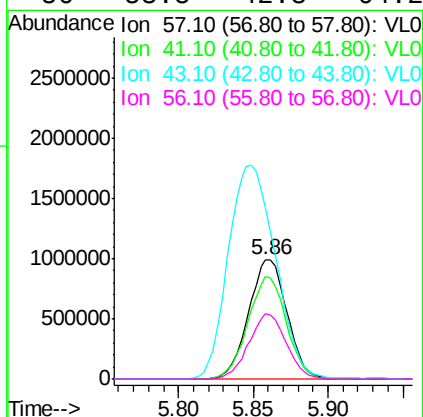
Manual Integrations
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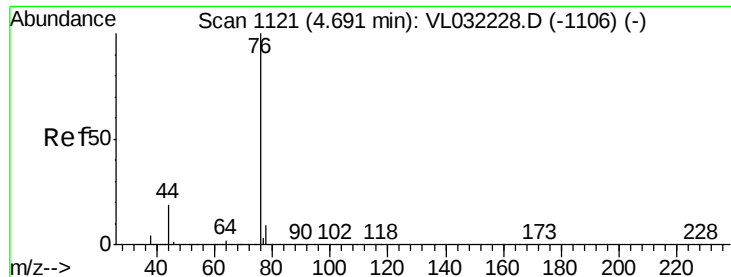
MMDadoda
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#26
Hexane
Concen: 8.90 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion:	57	Resp:	1770053
Ion	Ratio	Lower	Upper
57	100		
41	85.7	68.7	103.1
43	220.7	176.2	264.2
56	53.5	42.8	64.2





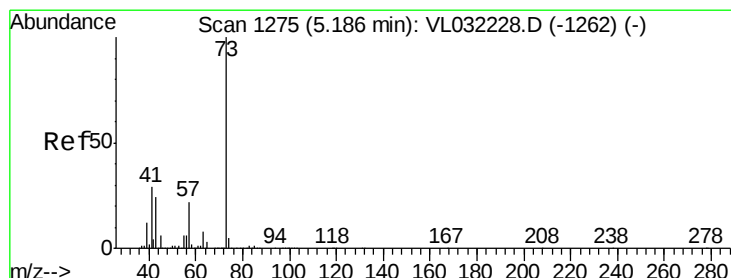
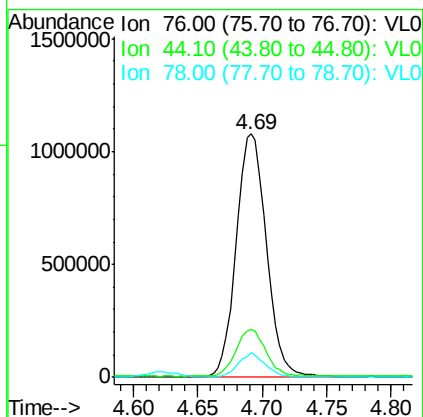
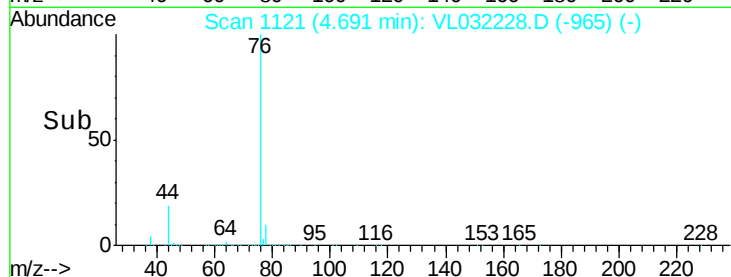
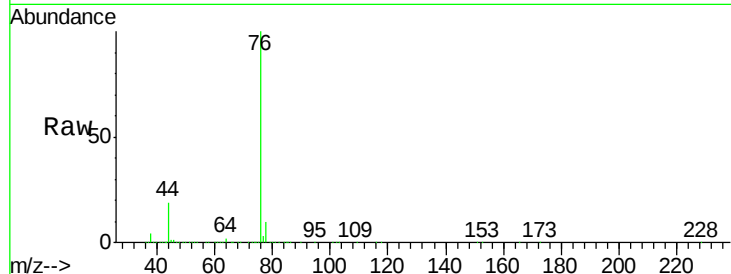
#27
Carbon Disulfide
Concen: 9.10 ppbv
RT: 4.69 min Scan# 1121
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	20.0	15.1	22.7
78	9.2	7.4	11.0

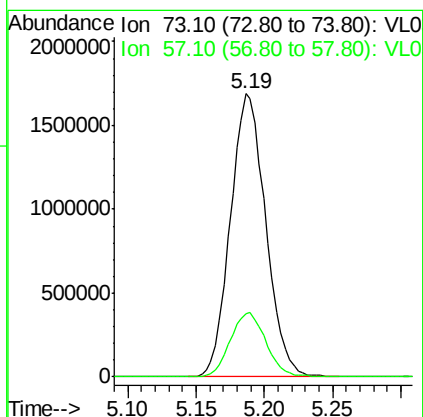
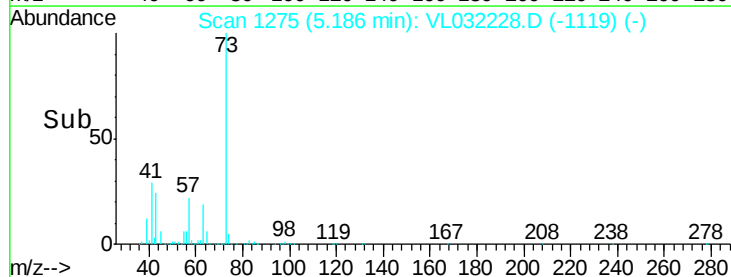
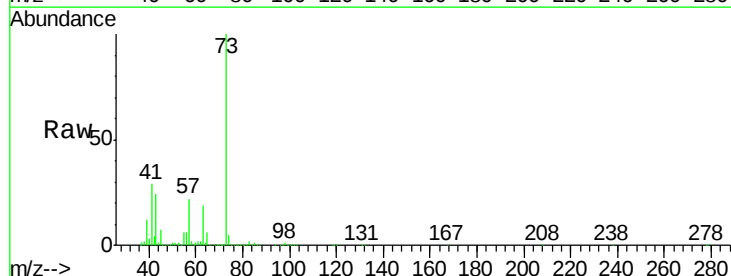
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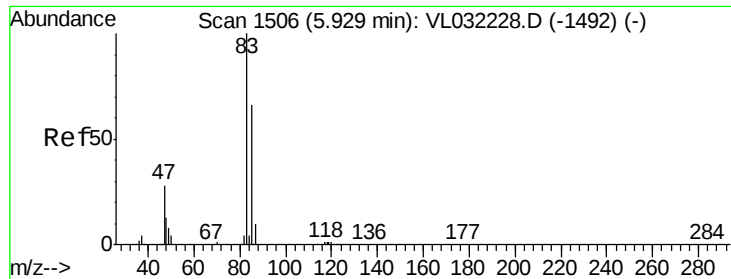
MMDadoda
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#28
Methyl tert-Butyl Ether
Concen: 8.76 ppbv
RT: 5.19 min Scan# 1275
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.2	18.6	27.8





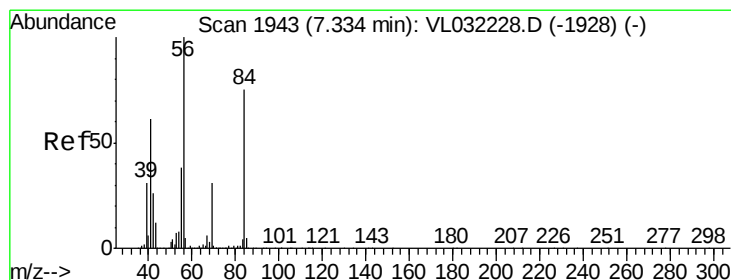
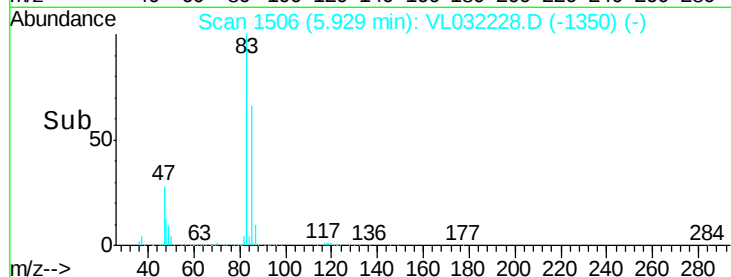
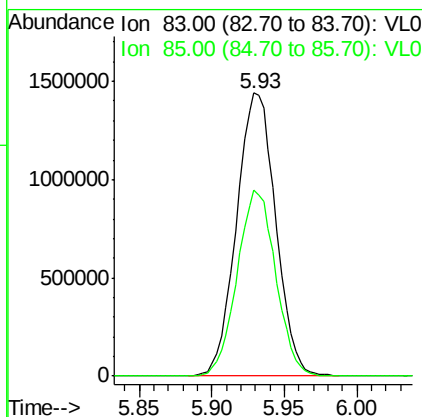
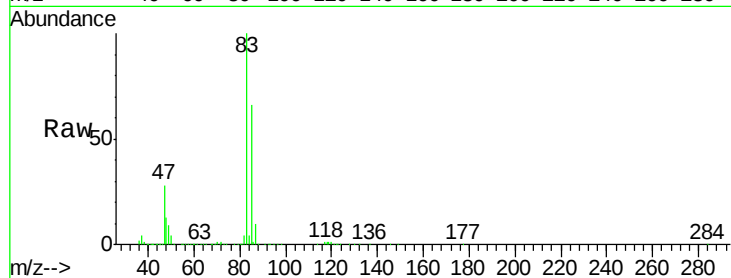
#29
Chloroform
Concen: 9.29 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 2694380
Ion Ratio Lower Upper
83 100
85 65.9 52.7 79.1

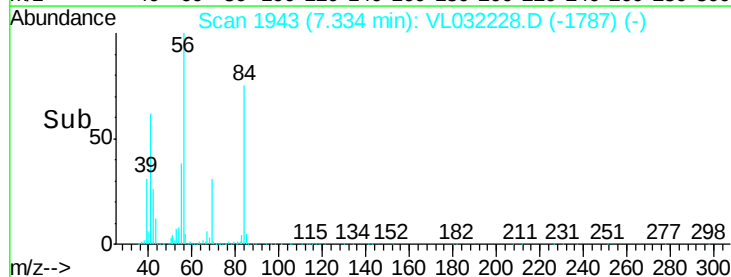
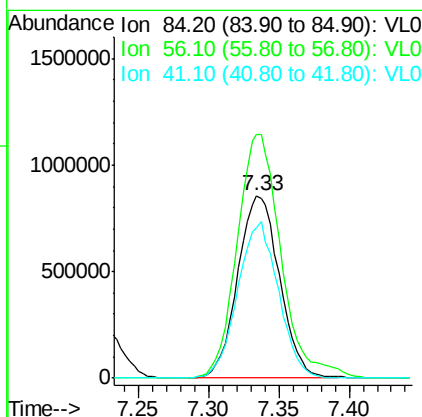
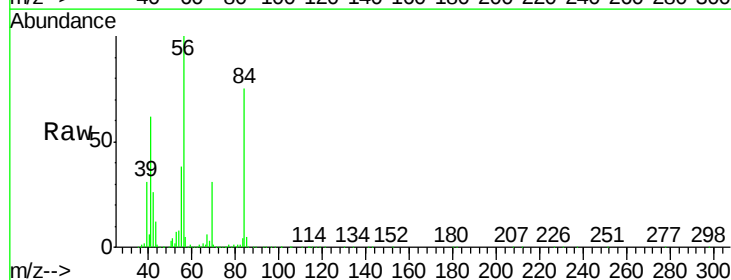
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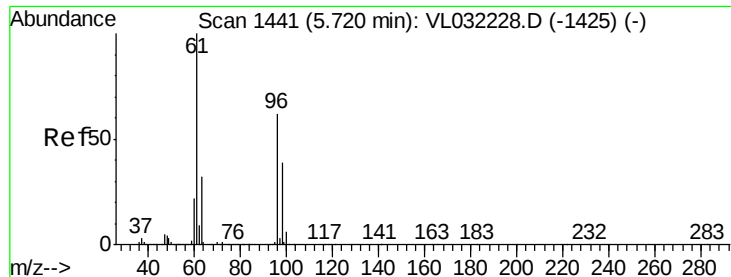
MMDadoda
7/13/2018 5:22:09 PM



#30
Cyclohexane
Concen: 9.34 ppbv
RT: 7.33 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion: 84 Resp: 1775741
Ion Ratio Lower Upper
84 100
56 140.7 112.6 168.8
41 83.8 67.0 100.6





#31

cis-1,2-Dichloroethene

Concen: 9.51 ppbv

RT: 5.72 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

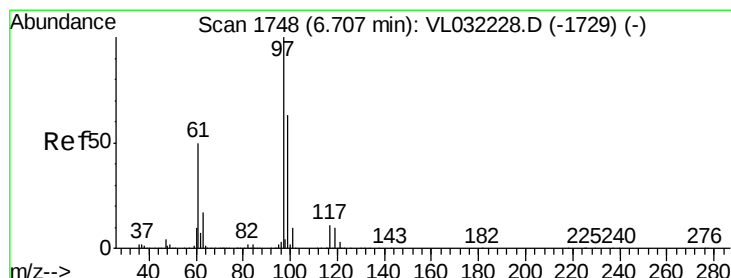
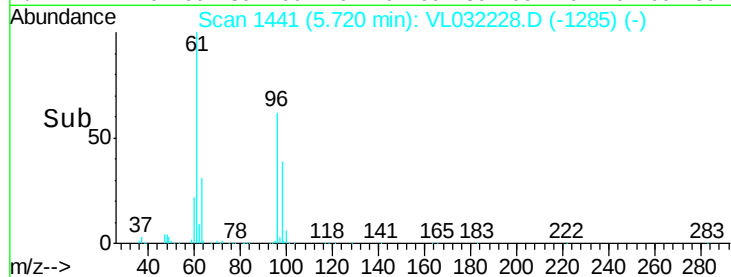
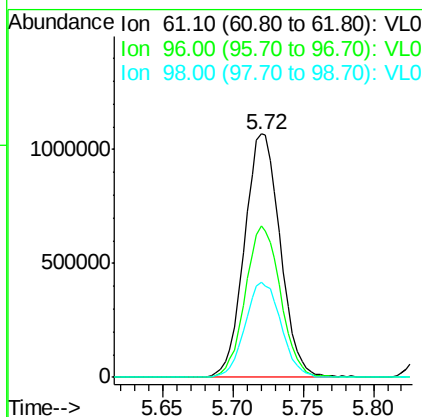
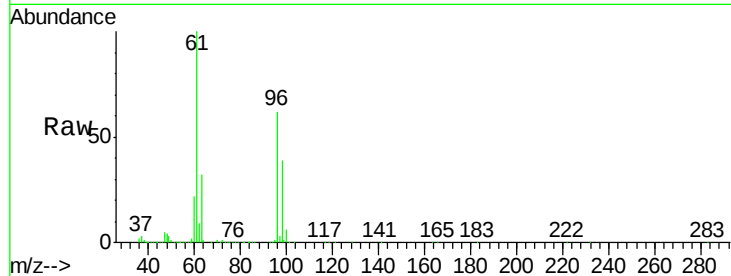
ClientSampleId :

VSTDICCC010

Tot Ion	61	Resp	1899507
Ion	Ratio	Lower	Upper
61	100		
96	62.3	49.8	74.8
98	39.3	31.4	47.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 9.92 ppbv

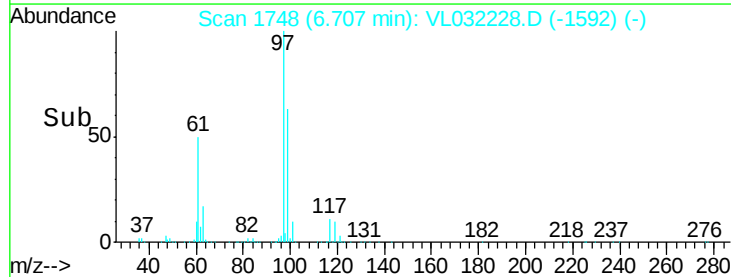
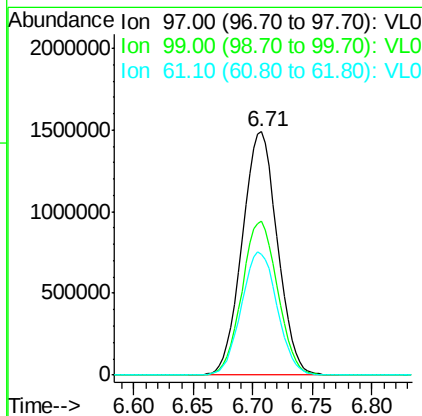
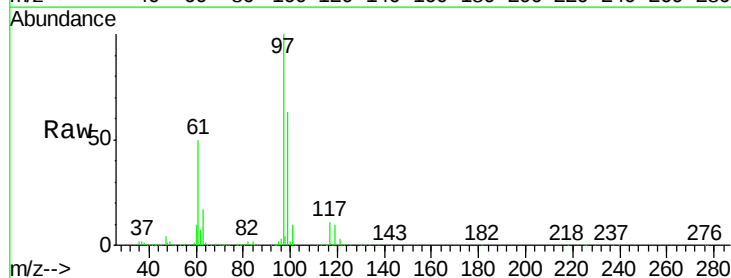
RT: 6.71 min Scan# 1748

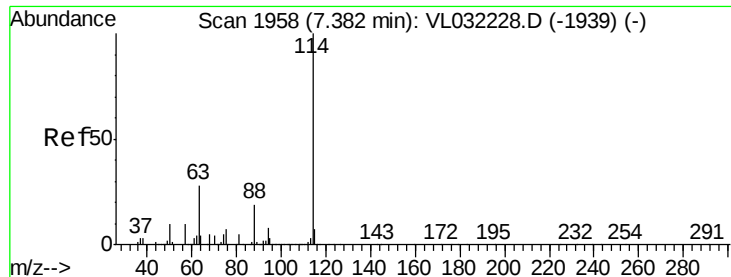
Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Tgt Ion	97	Resp	3056631
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.2	76.8
61	51.5	41.3	61.9





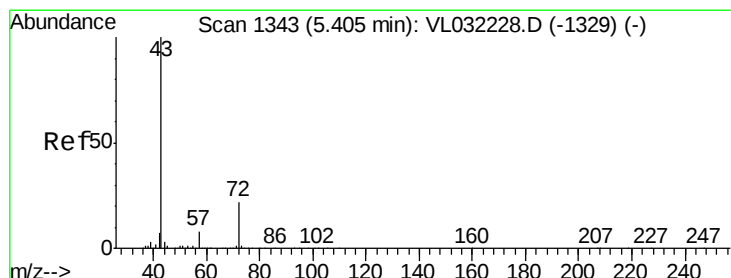
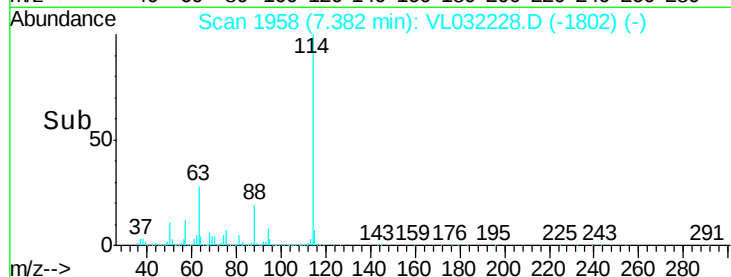
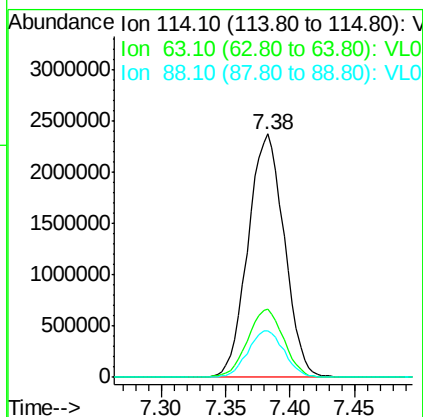
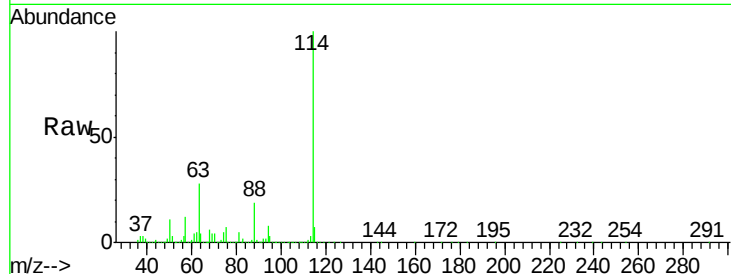
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:114 Resp: 4650255
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.5 33.7
 88 19.1 15.4 23.0

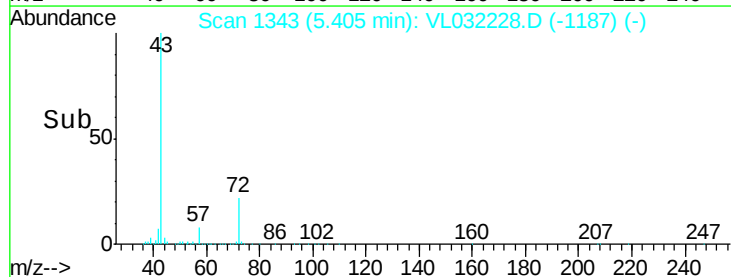
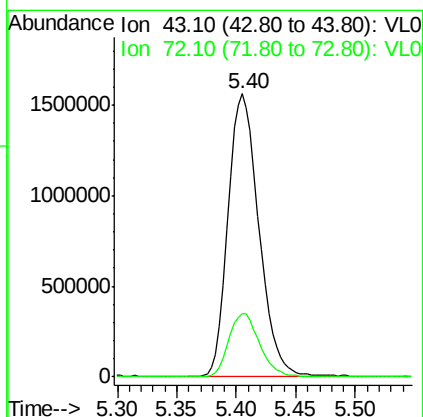
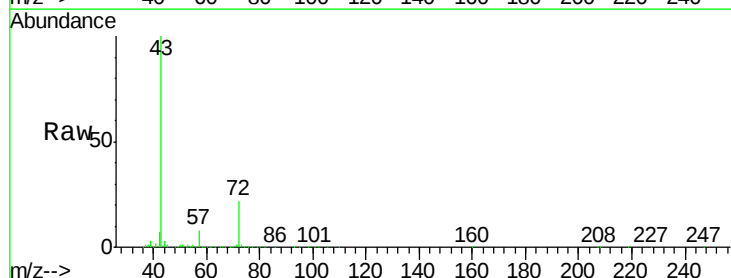
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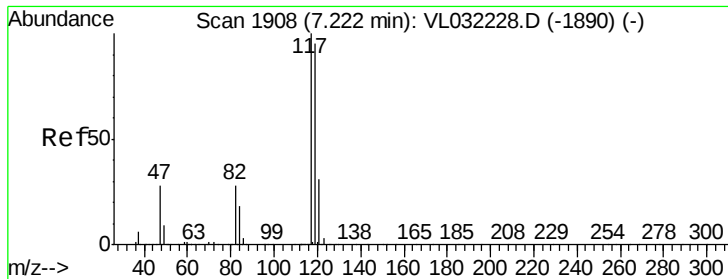
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#34
 2-Butanone
 Concen: 9.50 ppbv
 RT: 5.40 min Scan# 1343
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Tgt Ion: 43 Resp: 2799317
 Ion Ratio Lower Upper
 43 100
 72 22.6 18.1 27.1





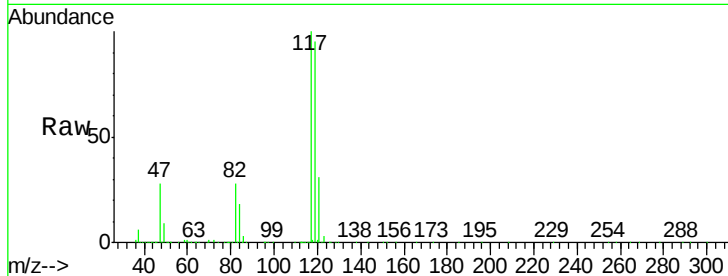
#35
Carbon Tetrachloride
Concen: 9.49 ppbv
RT: 7.22 min Scan# 1908
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.6	75.7	113.5
121	30.8	24.6	37.0

Manual Integrations
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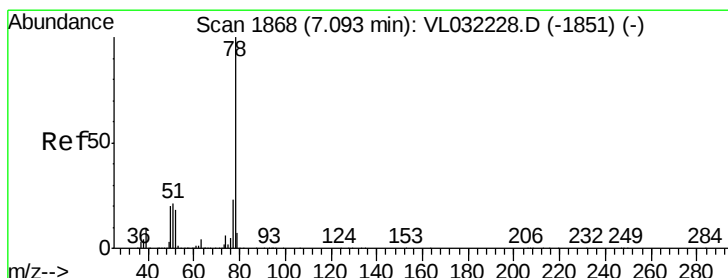
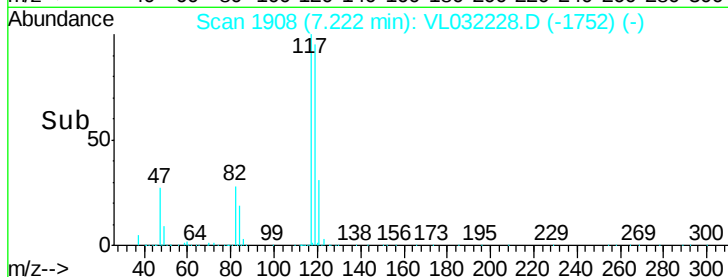
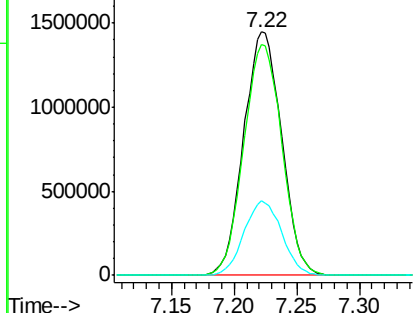


Abundance

Ion 117.00 (116.70 to 117.70): V

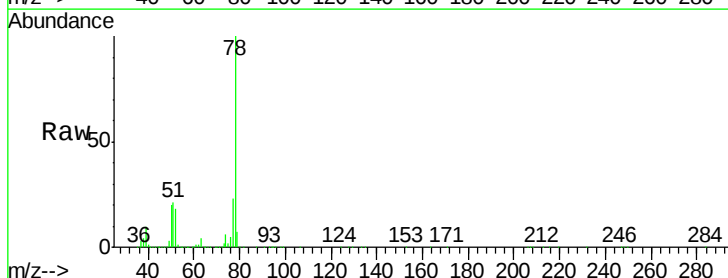
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36
Benzene
Concen: 9.52 ppbv
RT: 7.09 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.0	27.0
50	19.8	15.8	23.8

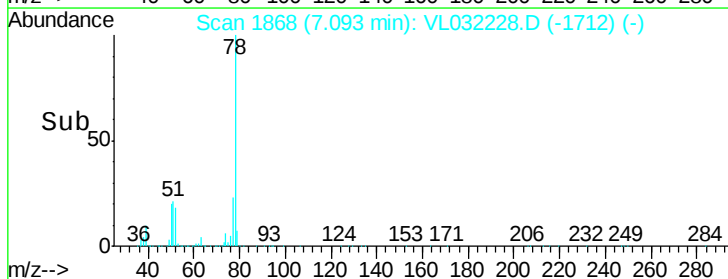
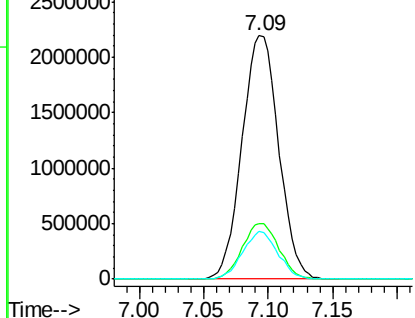


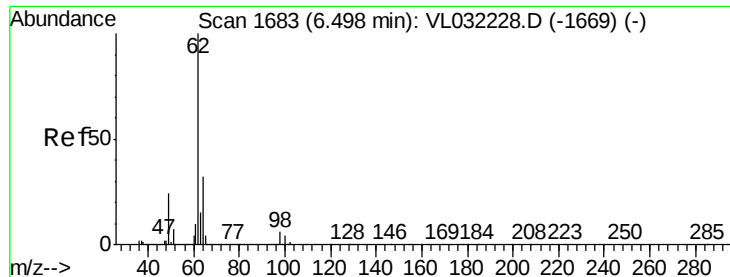
Abundance

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





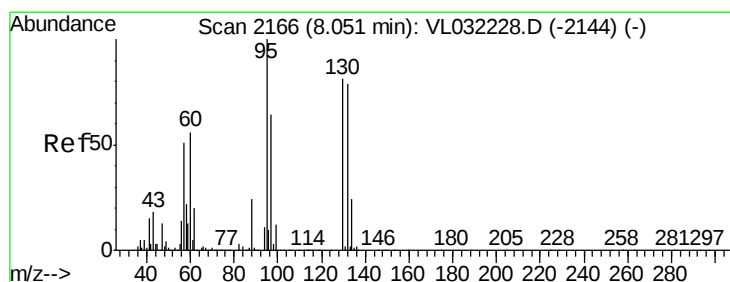
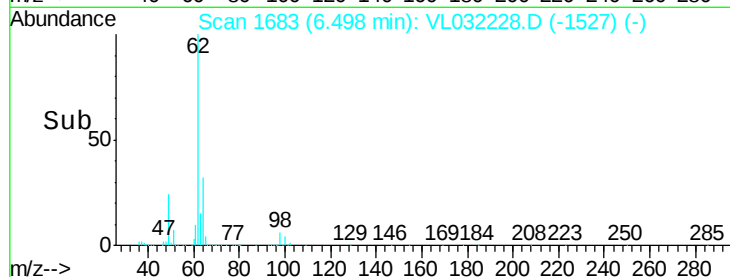
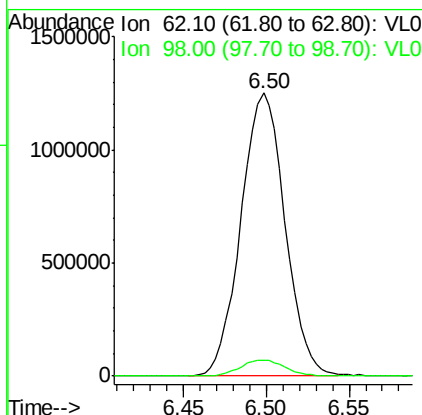
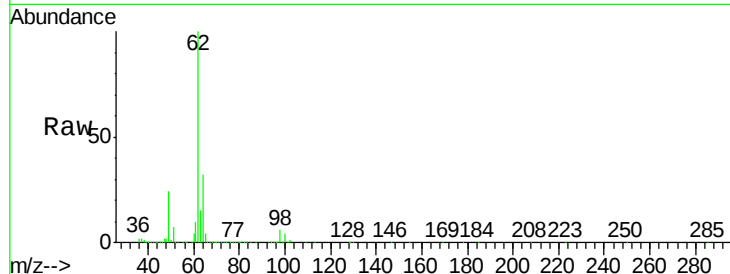
#37
 1,2-Dichloroethane
 Concen: 10.11 ppbv
 RT: 6.50 min Scan# 1683
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 62 Resp: 2316247
 Ion Ratio Lower Upper
 62 100
 98 5.9 4.6 7.0

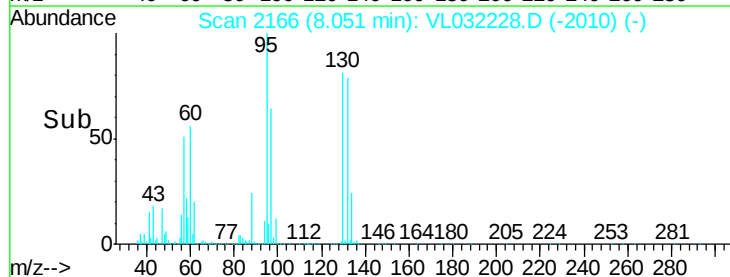
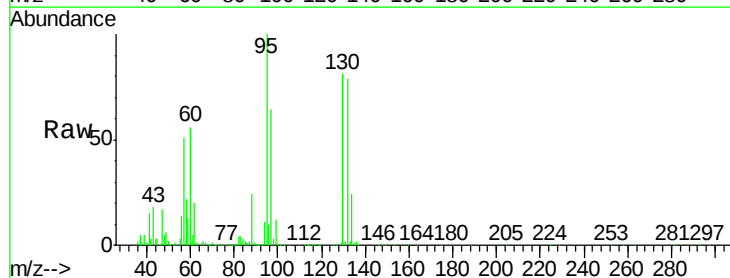
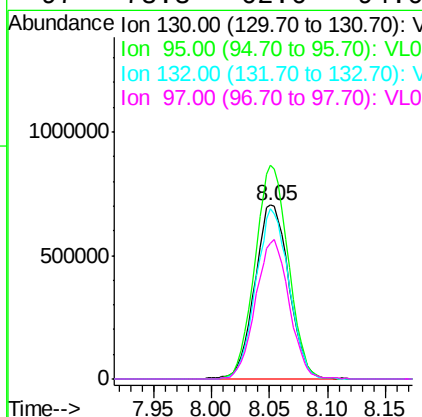
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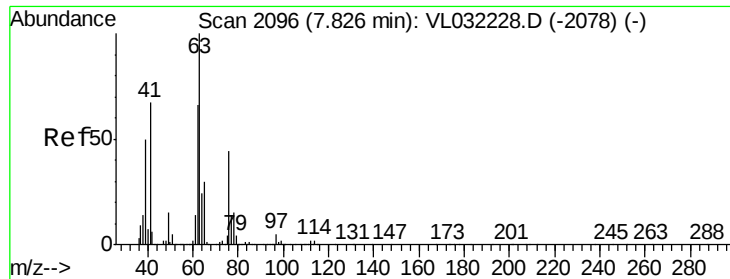
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#38
 Trichloroethene
 Concen: 8.32 ppbv
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Tgt Ion: 130 Resp: 1439439
 Ion Ratio Lower Upper
 130 100
 95 122.9 98.3 147.5
 132 97.6 78.1 117.1
 97 78.3 62.6 94.0





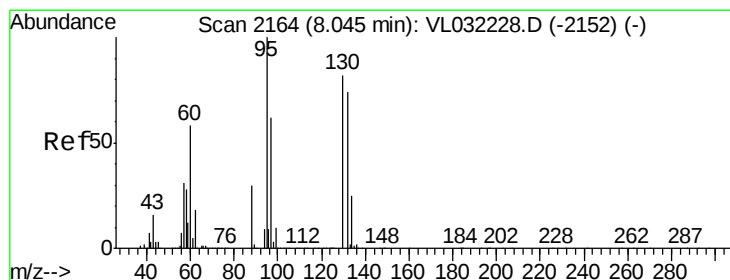
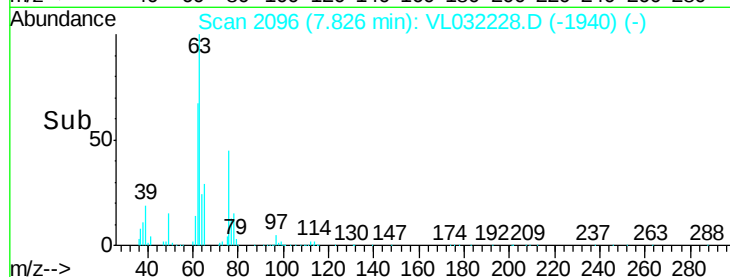
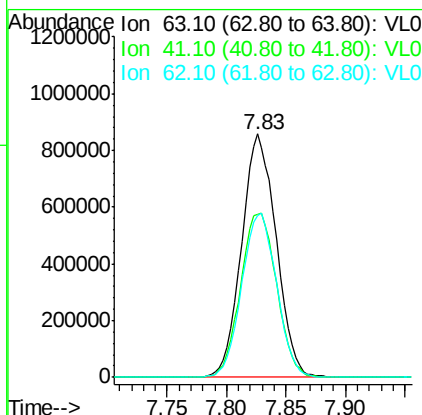
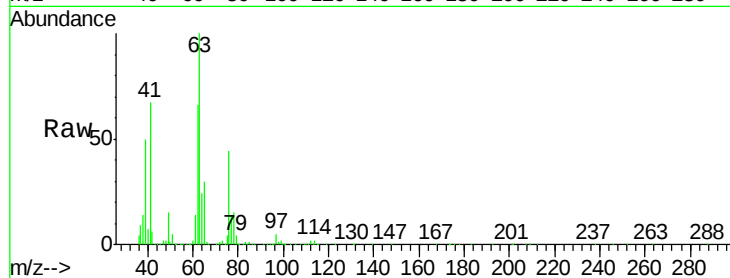
#39
 1,2-Dichloropropane
 Concen: 9.67 ppbv
 RT: 7.83 min Scan# 2096
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	67.2	53.8	80.6
62	66.4	53.1	79.7

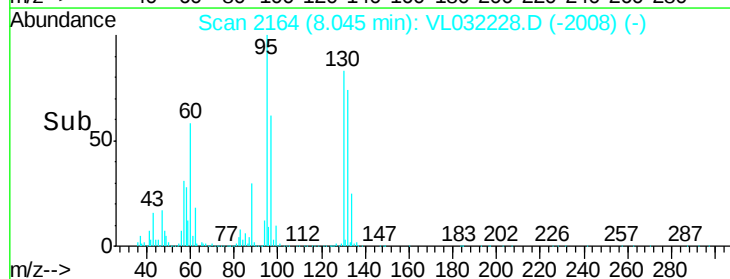
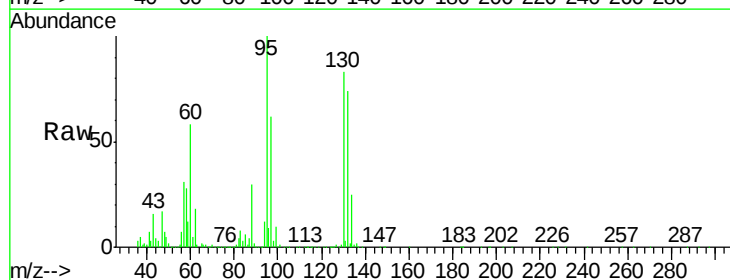
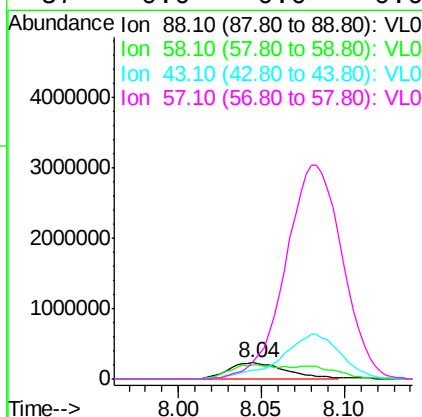
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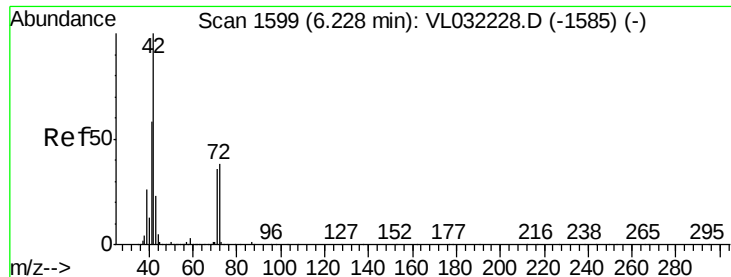
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#40
 1,4-Dioxane
 Concen: 8.23 ppbv
 RT: 8.04 min Scan# 2164
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
88	100		
58	145.9	117.4	176.2
43	0.0	0.0	0.0
57	0.0	0.0	0.0





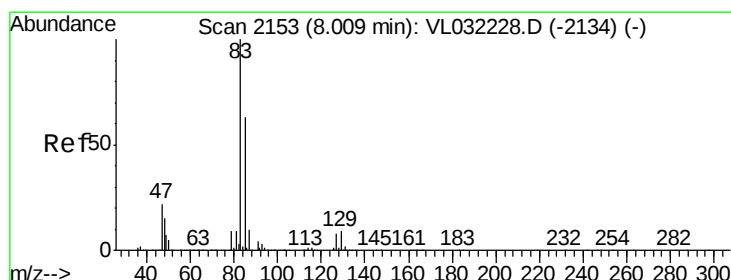
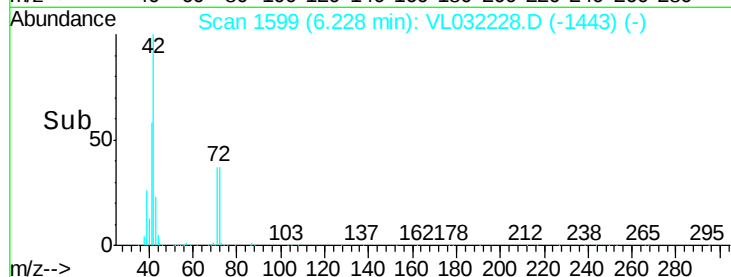
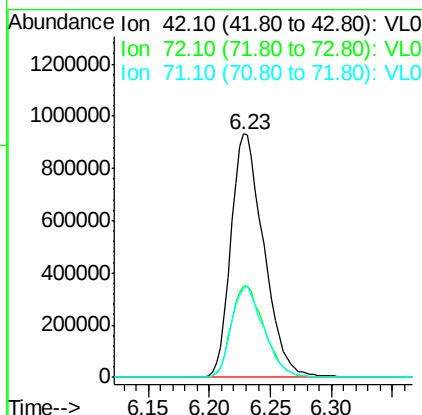
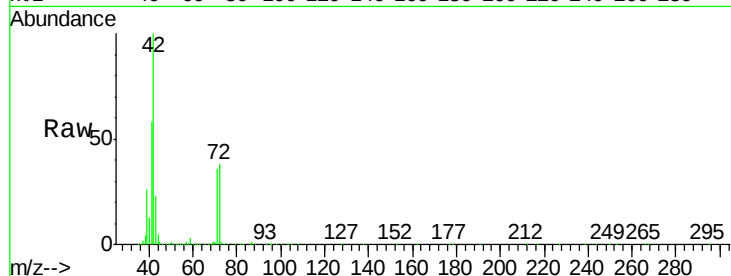
#41
Tetrahydrofuran
Concen: 9.79 ppbv
RT: 6.23 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.2	30.6	45.8
71	37.1	29.7	44.5

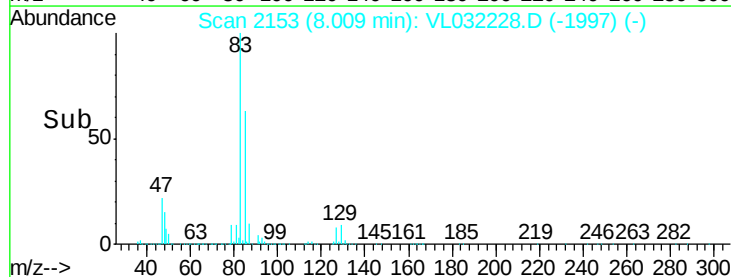
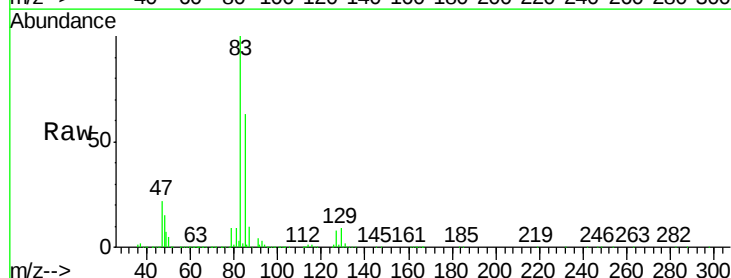
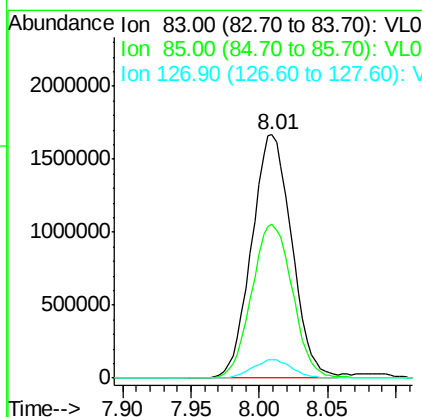
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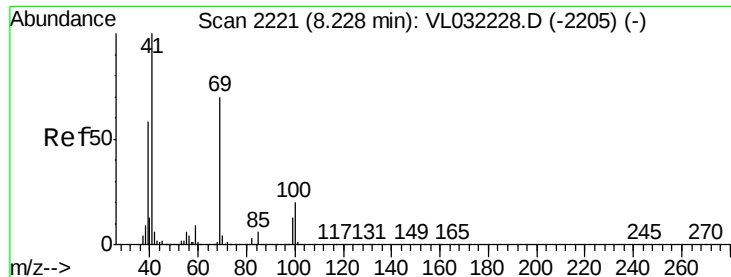
MMDadoda
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#42
Bromodichloromethane
Concen: 9.76 ppbv
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.6	76.0
127	7.6	6.1	9.1





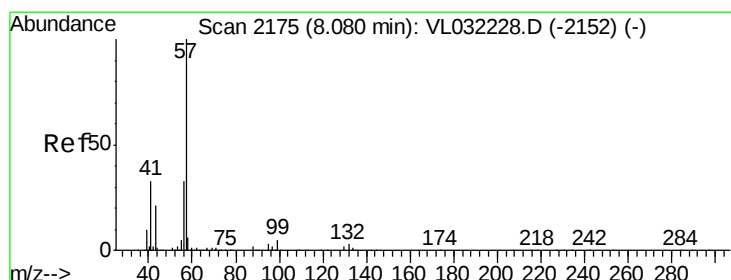
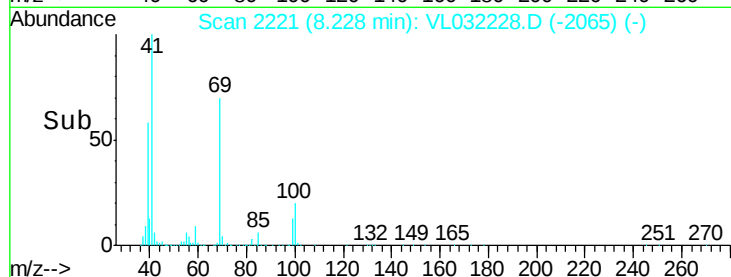
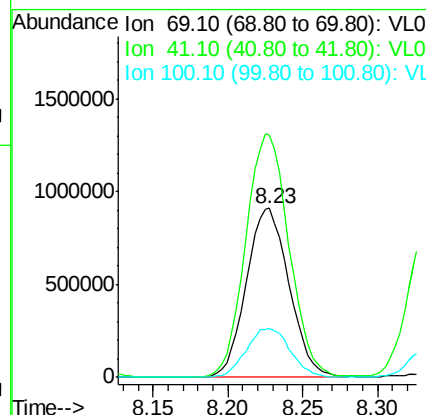
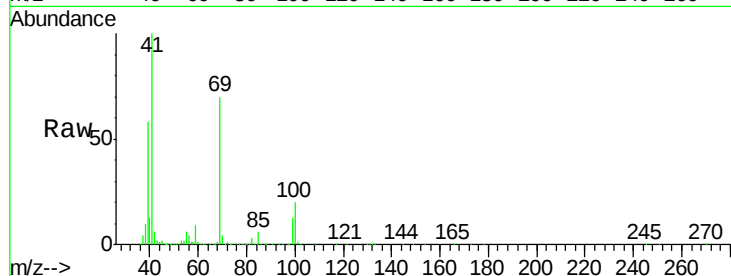
#43
Methvl Methacrilate
Concen: 9.80 ppbv
RT: 8.23 min Scan# 2221
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 69 Resp: 1815652
Ion Ratio Lower Upper
69 100
41 145.4 116.3 174.5
100 29.8 23.8 35.8

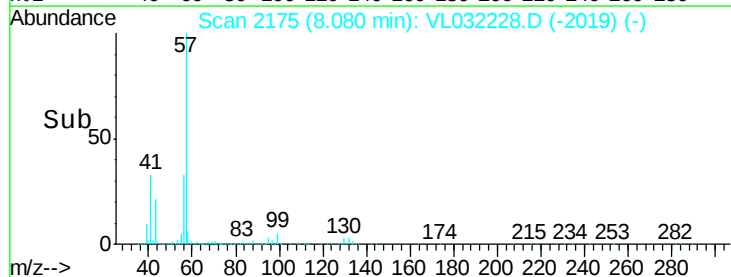
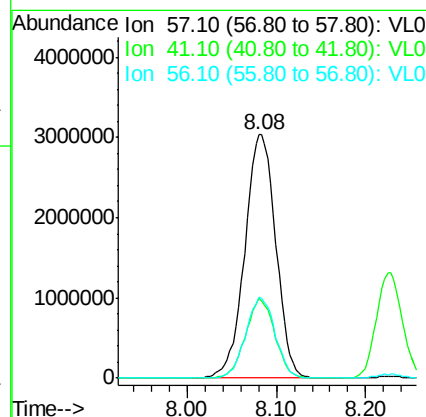
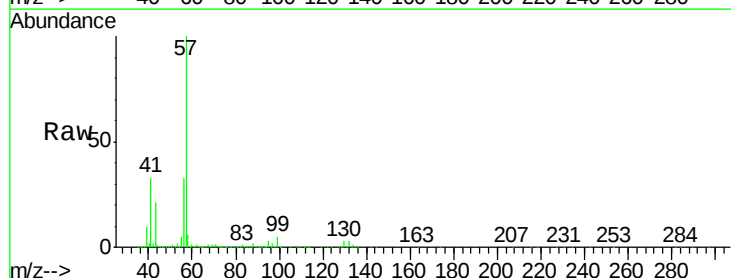
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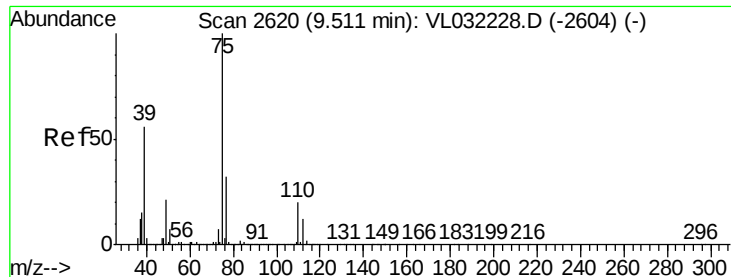
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.32 ppbv
RT: 8.08 min Scan# 2175
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion: 57 Resp: 7290539
Ion Ratio Lower Upper
57 100
41 30.8 24.7 37.1
56 31.7 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 10.72 ppbv

RT: 9.51 min Scan# 2620

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 75 Resp: 2483862

Ion Ratio Lower Upper

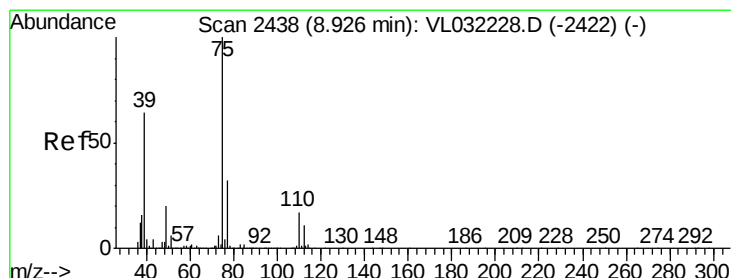
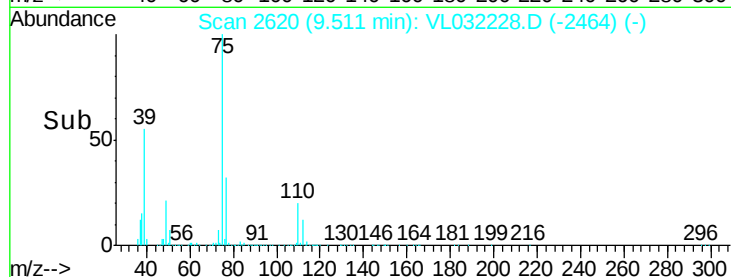
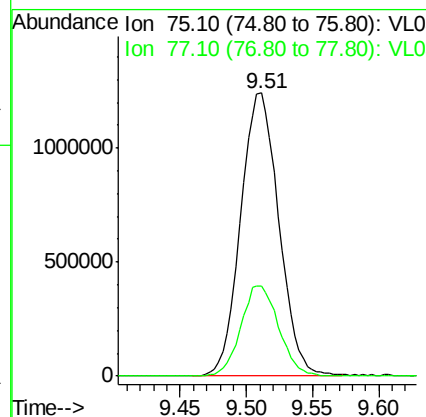
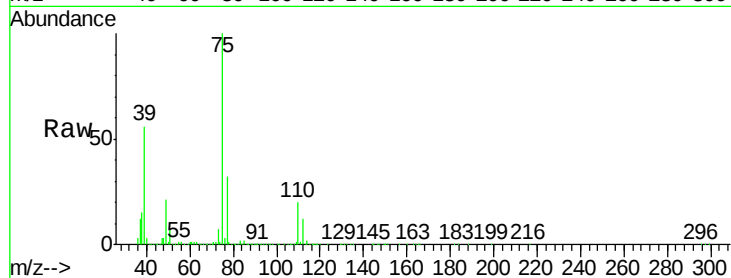
75 100

77 31.9 25.5 38.3

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7/13/2018 5:22:09 PM



#46

cis-1,3-Dichloropropene

Concen: 10.32 ppbv

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

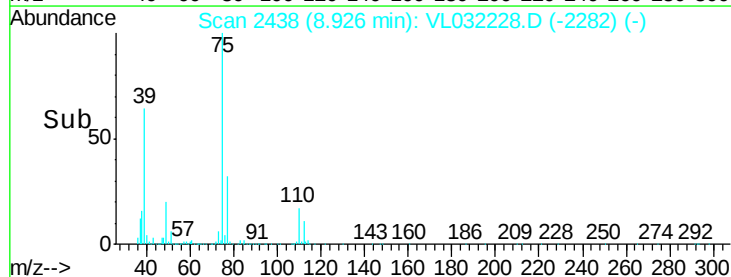
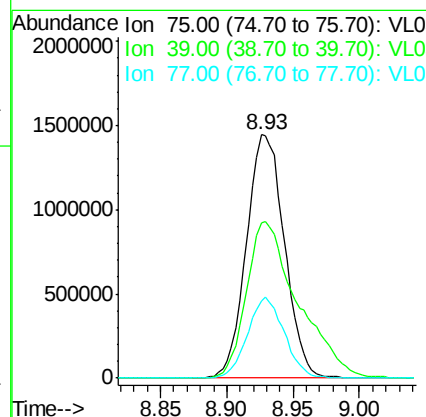
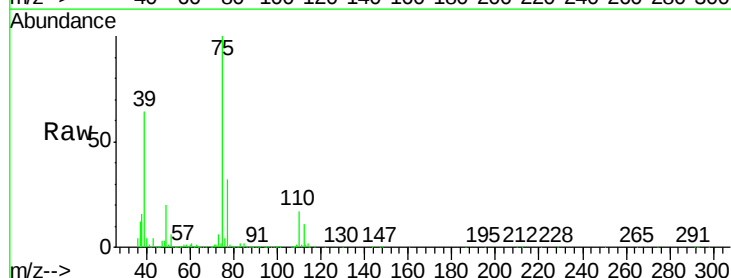
Tgt Ion: 75 Resp: 2879204

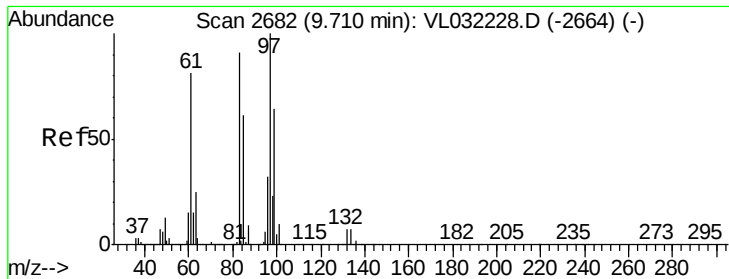
Ion Ratio Lower Upper

75 100

39 63.6 50.9 76.3

77 31.6 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 9.66 ppbv

RT: 9.71 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 97 Resp: 1783492

Ion Ratio Lower Upper

97 100

83 91.1 72.9 109.3

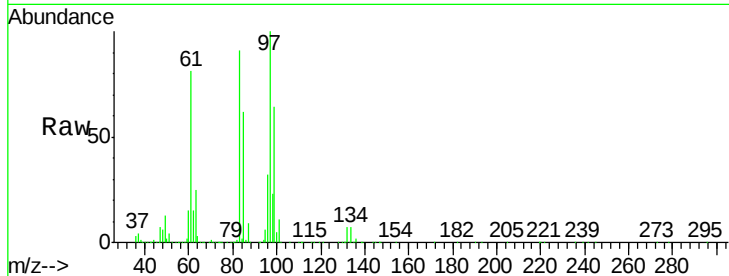
85 61.6 49.3 73.9

99 64.1 51.3 76.9

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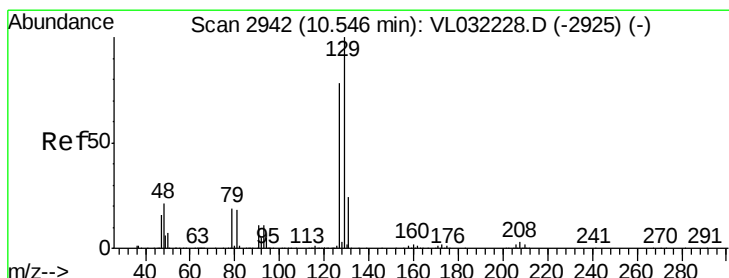
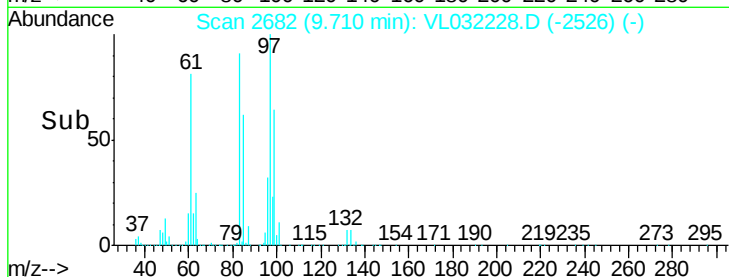
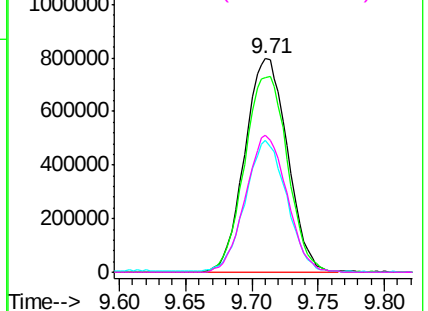


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.06 ppbv

RT: 10.55 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VL032228.D

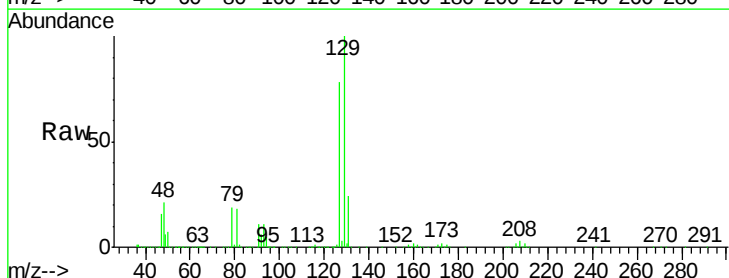
Acq: 12 Jul 2018 18:03

Tgt Ion: 129 Resp: 2860096

Ion Ratio Lower Upper

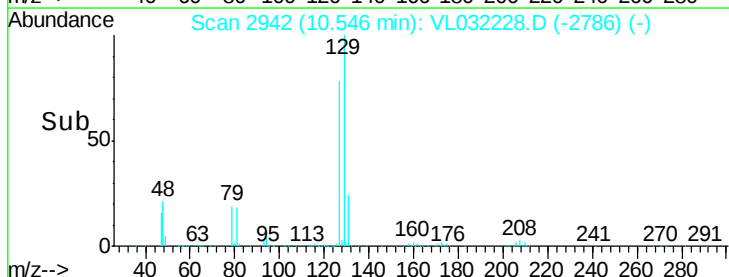
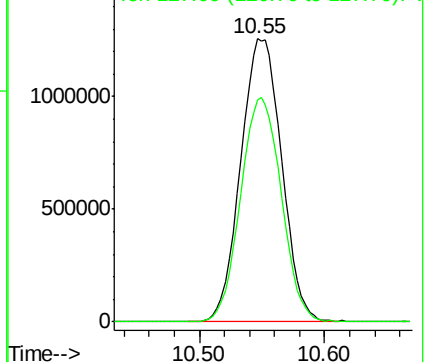
129 100

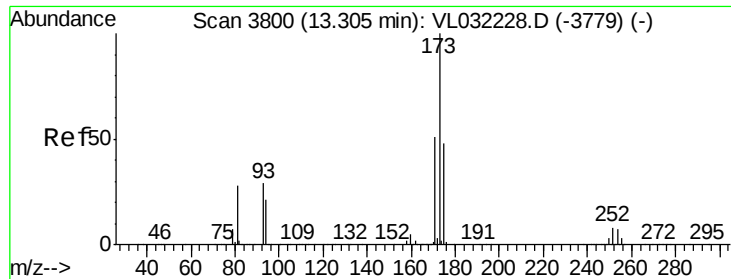
127 78.6 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





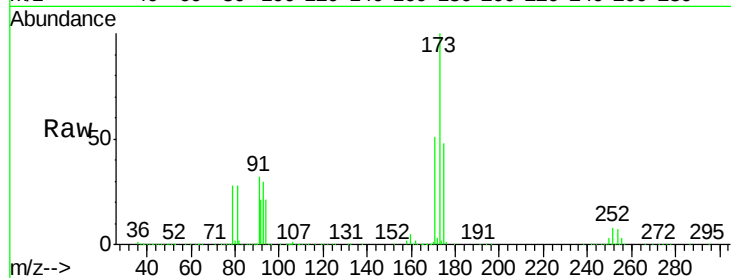
#49
Bromoform
Concen: 9.86 ppbv
RT: 13.30 min Scan# 3800
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

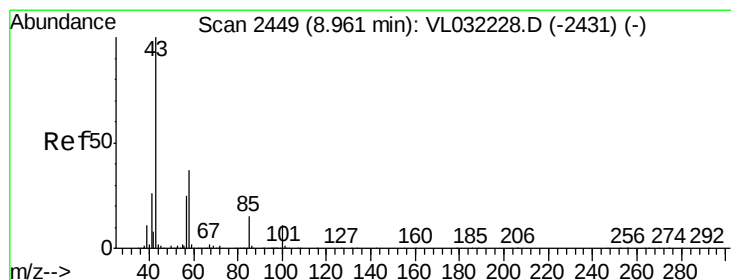
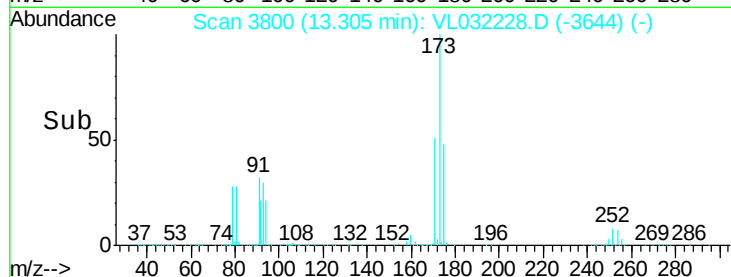
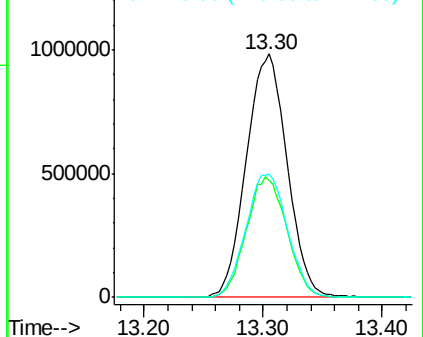
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	39.4	59.2
171	52.2	41.8	62.6

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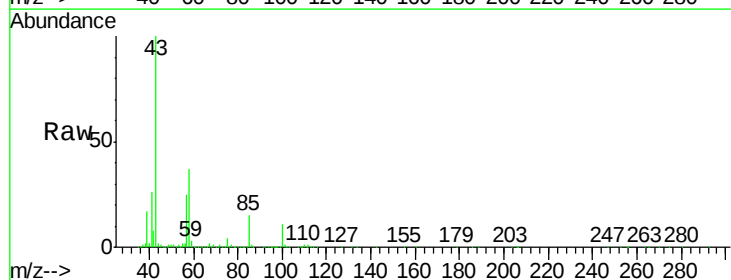


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

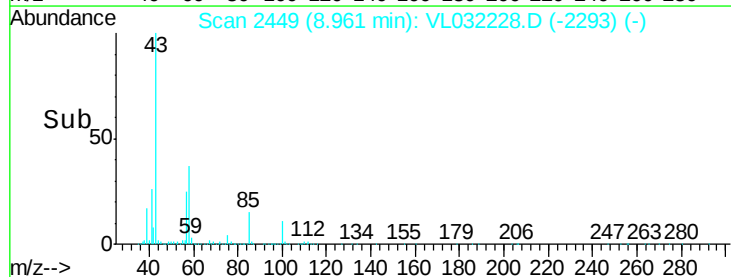
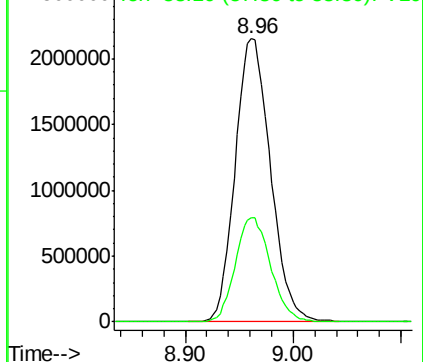


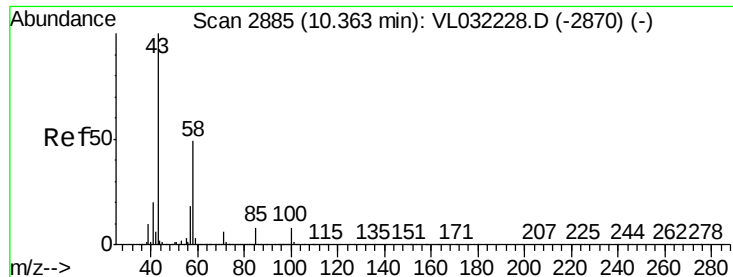
#50
4-Methyl-2-Pentanone
Concen: 9.99 ppbv
RT: 8.96 min Scan# 2449
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.5	44.3



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





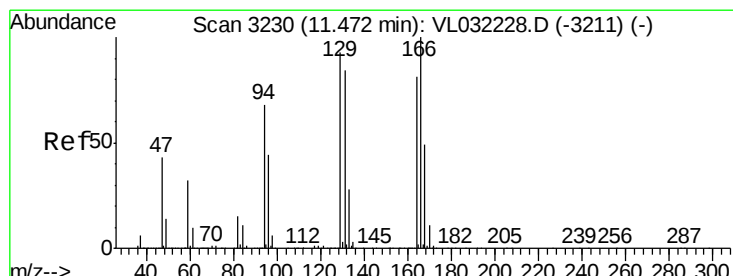
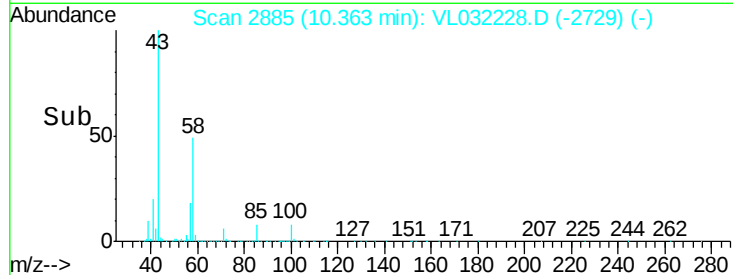
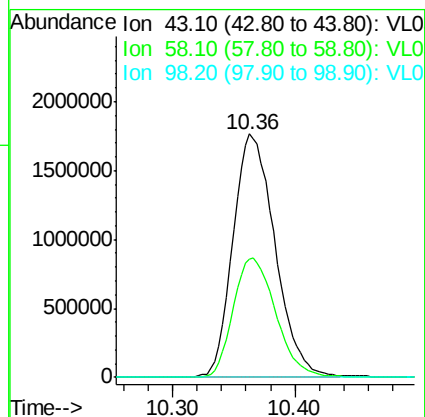
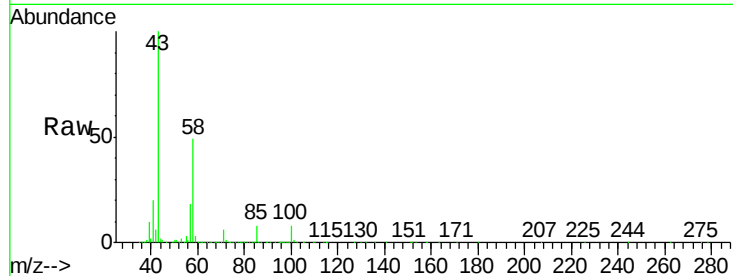
#51
2-Hexanone
Concen: 10.35 ppbv
RT: 10.36 min Scan# 2885
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 43 Resp: 4213497
Ion Ratio Lower Upper
43 100
58 50.0 39.9 59.9
98 0.3 0.2 0.4

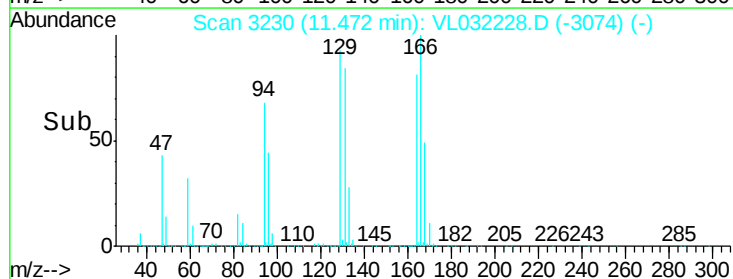
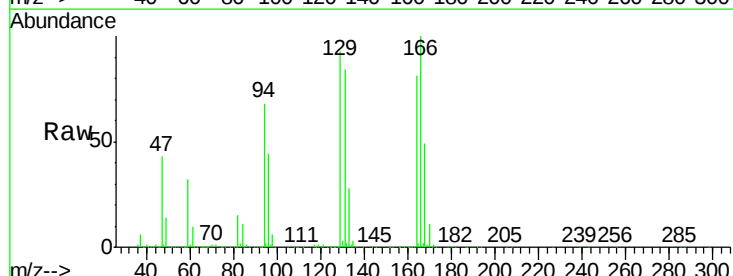
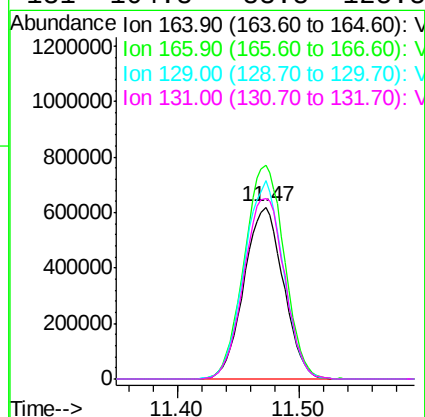
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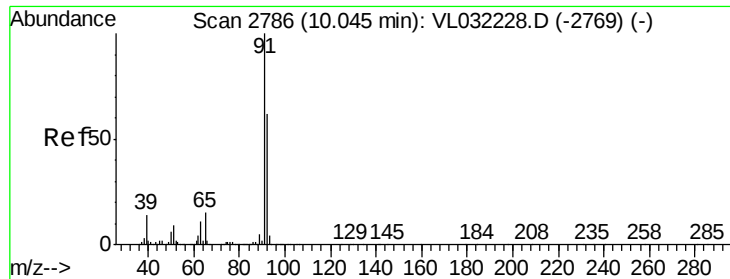
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#52
Tetrachloroethene
Concen: 8.47 ppbv
RT: 11.47 min Scan# 3230
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion: 164 Resp: 1378818
Ion Ratio Lower Upper
164 100
166 124.1 99.3 148.9
129 115.0 92.0 138.0
131 104.8 83.8 125.8





#53

Toluene

Concen: 9.24 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4985772

Ion Ratio Lower Upper

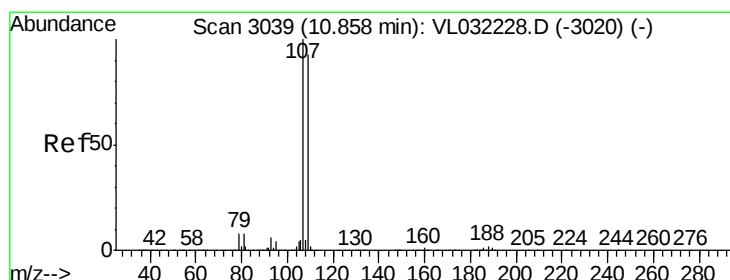
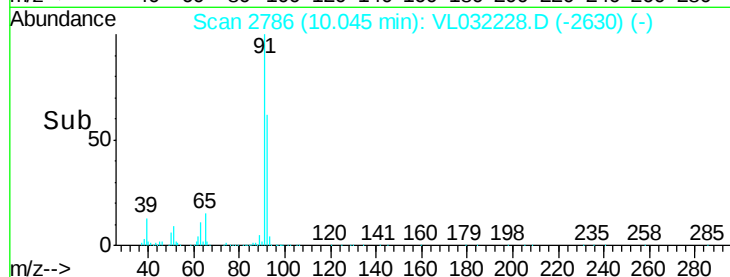
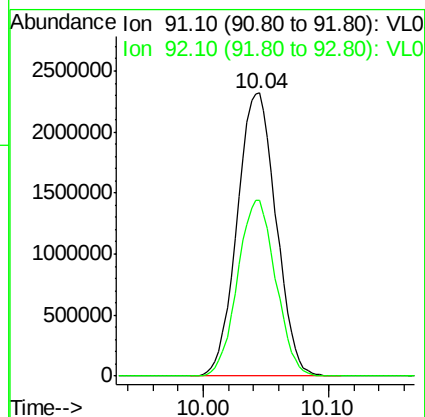
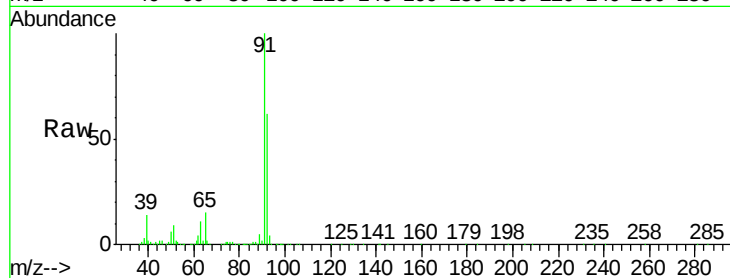
91 100

92 61.2 49.0 73.4

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7/13/2018 5:22:09 PM



#54

1,2-Dibromoethane

Concen: 9.66 ppbv

RT: 10.86 min Scan# 3039

Delta R.T. 0.00 min

Lab File: VL032228.D

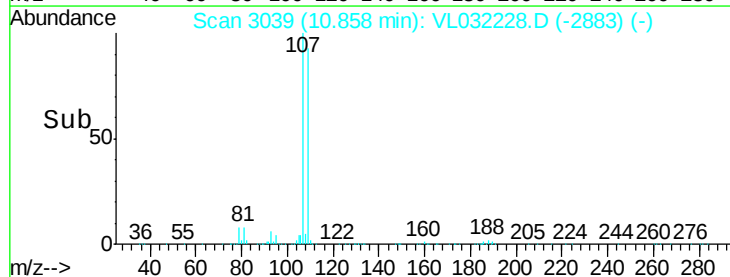
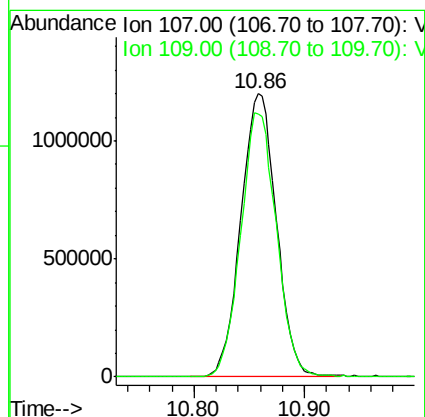
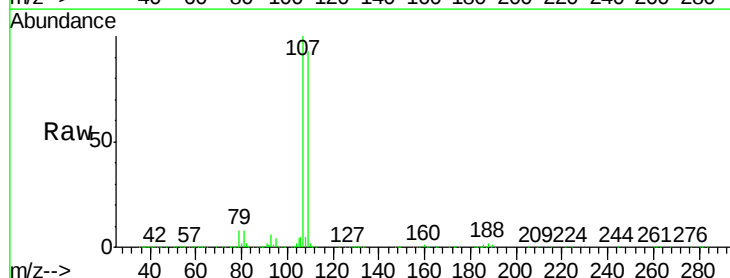
Acq: 12 Jul 2018 18:03

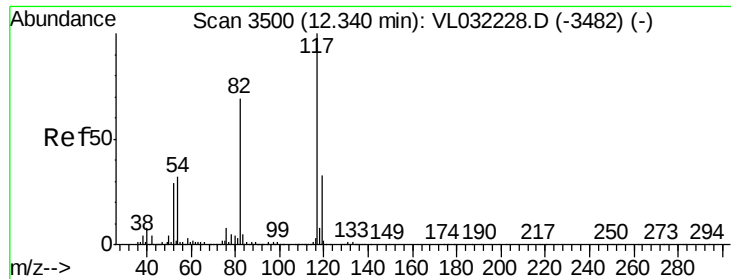
Tgt Ion: 107 Resp: 2672170

Ion Ratio Lower Upper

107 100

109 92.9 74.3 111.5





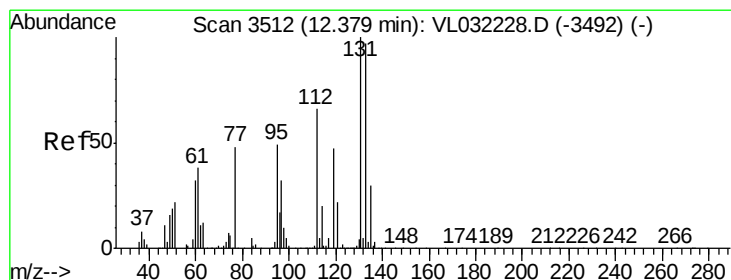
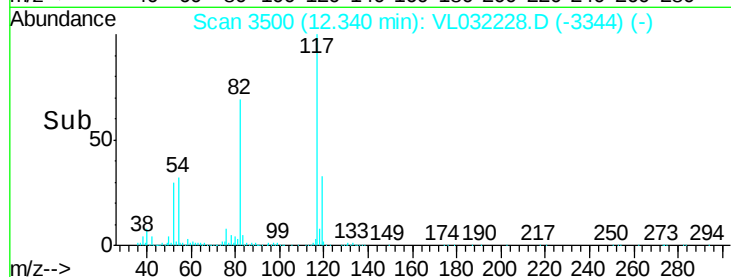
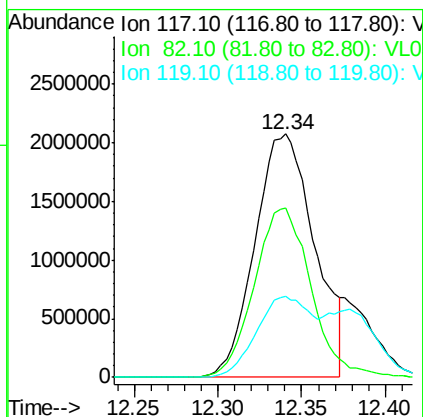
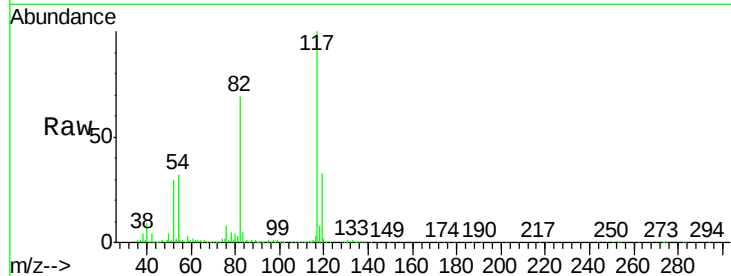
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.34 min Scan# 3500
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.6	53.2	79.8
119	54.9	43.9	65.9

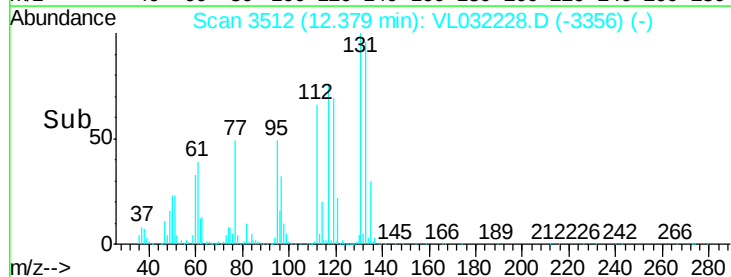
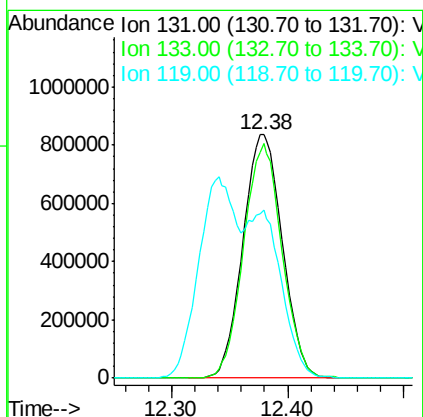
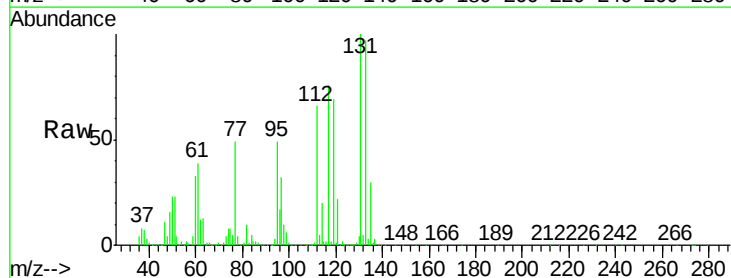
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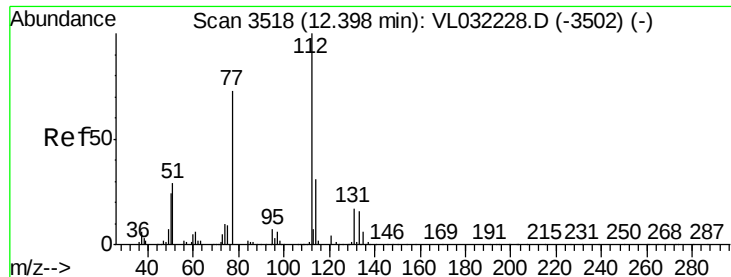
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.66 ppbv
RT: 12.38 min Scan# 3512
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.1	75.2	112.8
119	142.3	113.9	170.9





#57

Chlorobenzene

Concen: 8.38 ppbv

RT: 12.40 min Scan# 3518

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 112 Resp: 3701598

Ion Ratio Lower Upper

112 100

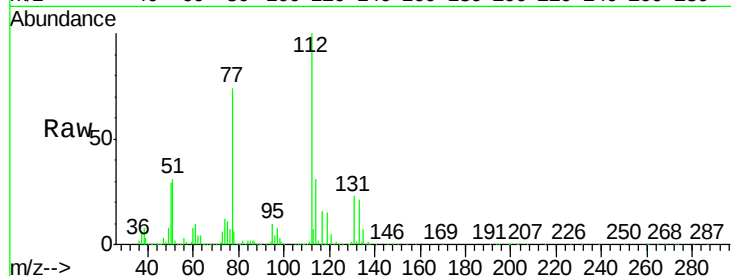
77 73.5 58.8 88.2

114 31.0 27.9 34.1

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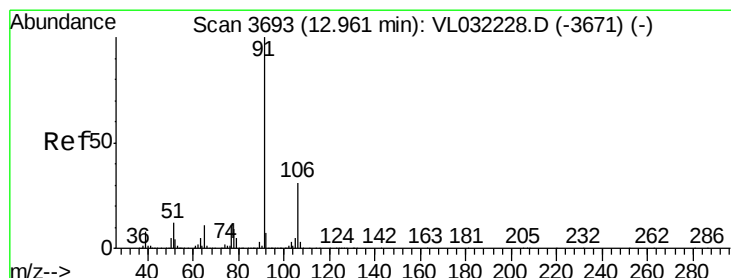
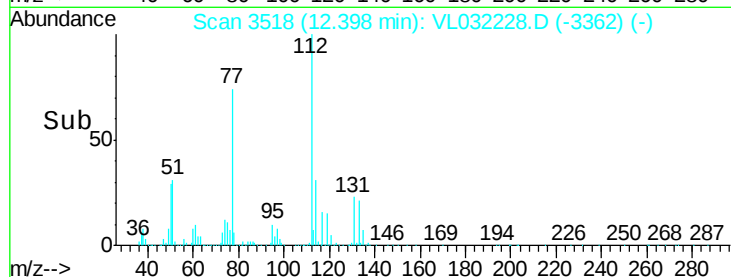
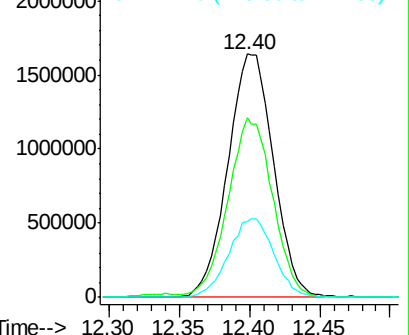
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.42 ppbv

RT: 12.96 min Scan# 3693

Delta R.T. 0.00 min

Lab File: VL032228.D

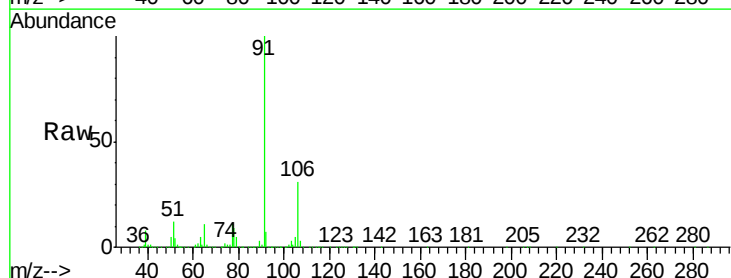
Acq: 12 Jul 2018 18:03

Tgt Ion: 91 Resp: 6937597

Ion Ratio Lower Upper

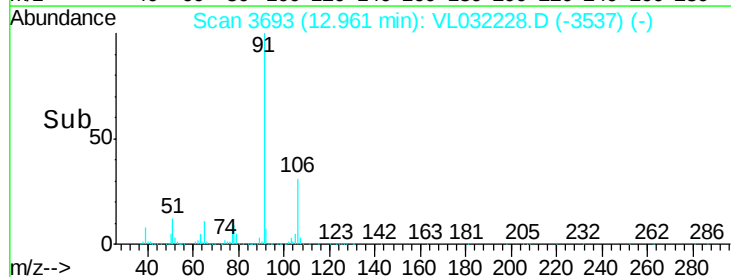
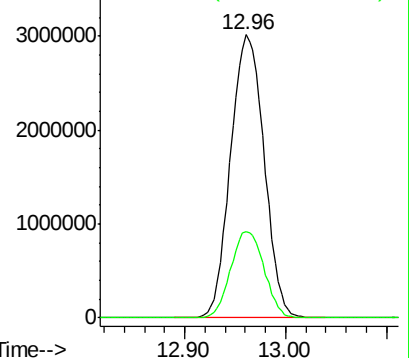
91 100

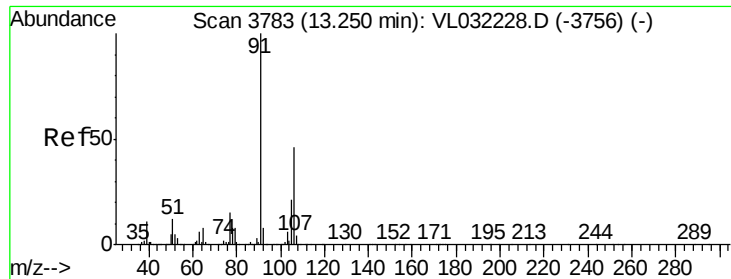
106 30.6 24.5 36.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





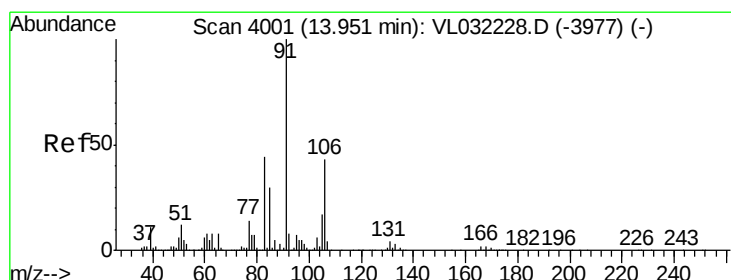
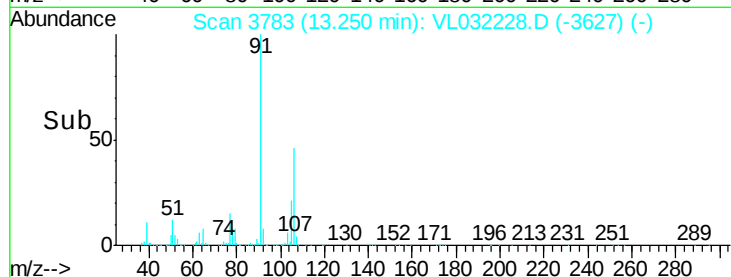
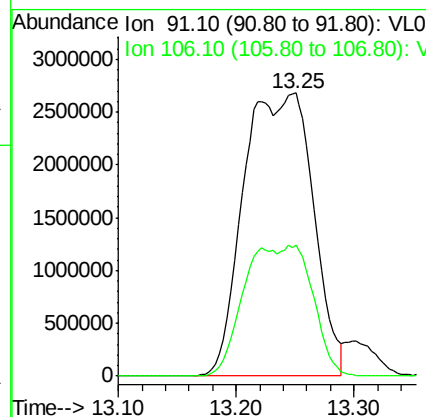
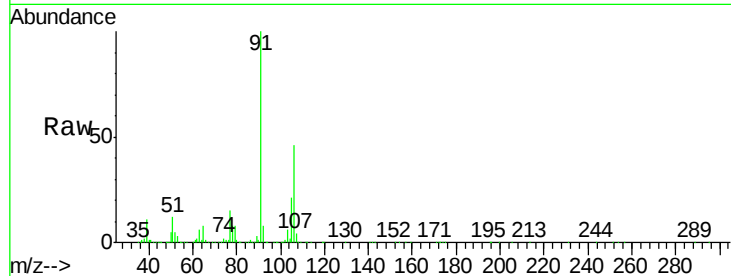
#59
m/p-Xylene
Concen: 16.61 ppbv m
RT: 13.25 min Scan# 3783
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp:10985101
Ion Ratio Lower Upper
91 100
106 45.5 36.4 54.6

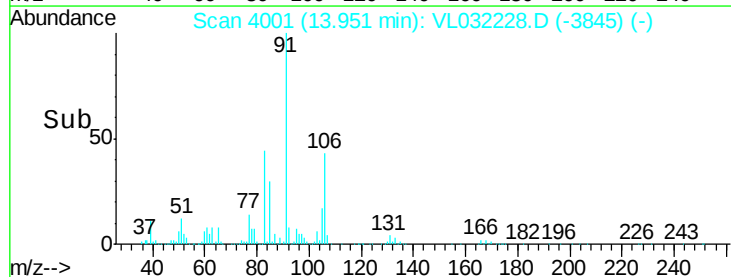
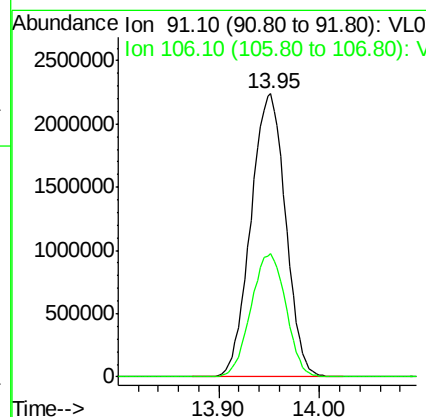
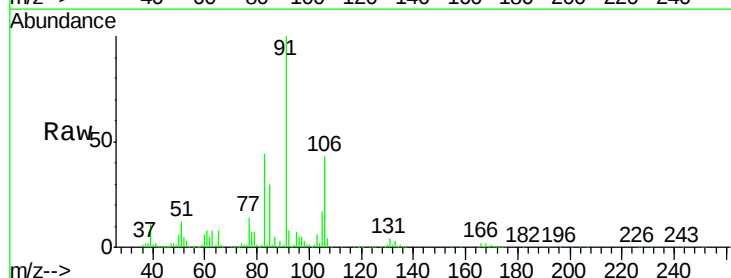
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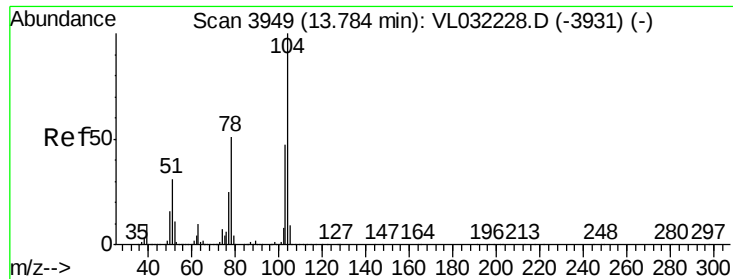
MMDadoda
7/13/2018 5:22:09 PM



#60
o-Xylene
Concen: 8.13 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion: 91 Resp: 5349887
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.5





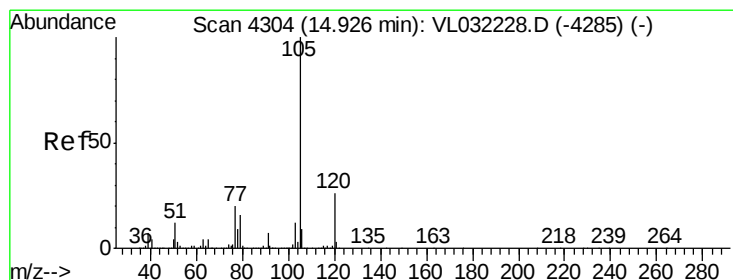
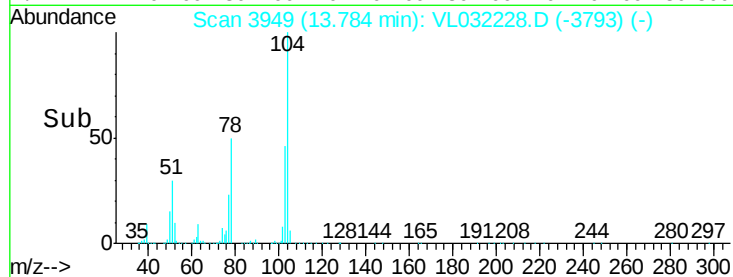
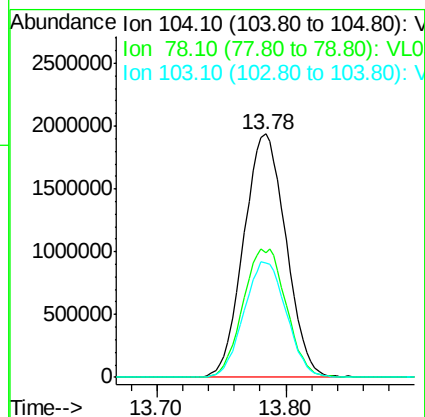
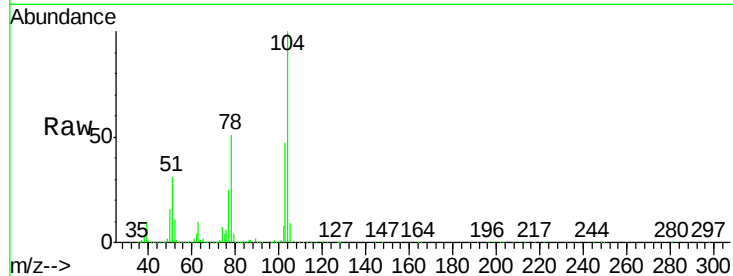
#61
Stvrene
Concen: 8.30 ppbv
RT: 13.78 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:104 Resp: 4424484
Ion Ratio Lower Upper
104 100
78 54.1 43.4 65.0
103 47.5 38.0 57.0

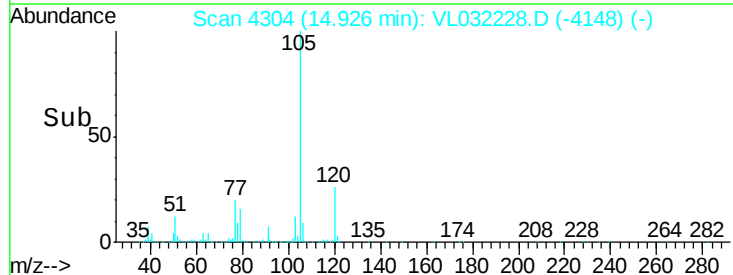
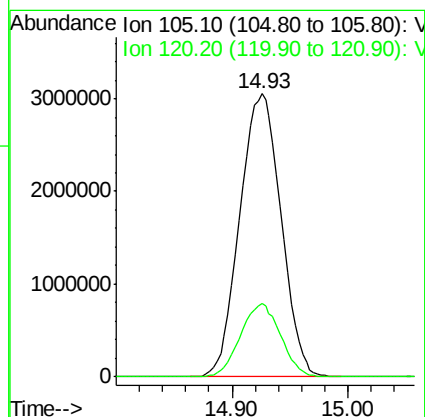
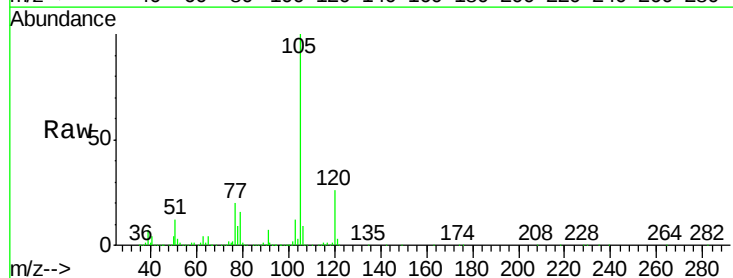
Manual Integrations
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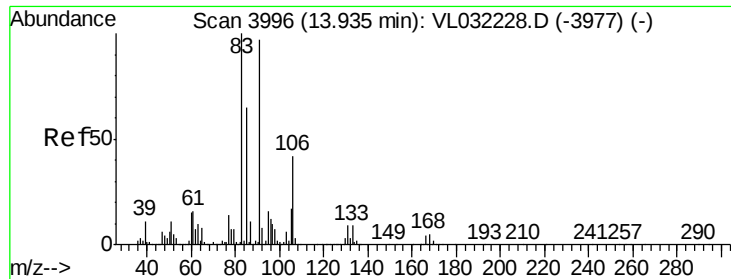
MMDadoda
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#62
Isopropylbenzene
Concen: 7.53 ppbv
RT: 14.93 min Scan# 4304
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion:105 Resp: 7552271
Ion Ratio Lower Upper
105 100
120 25.2 20.2 30.2





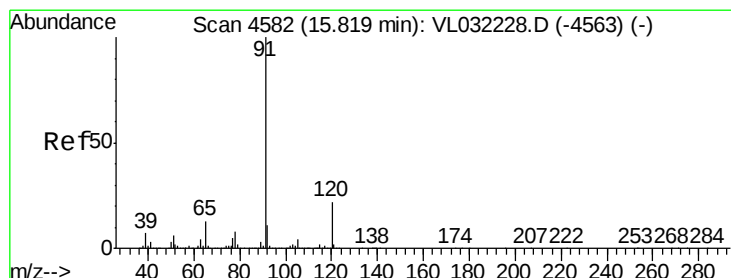
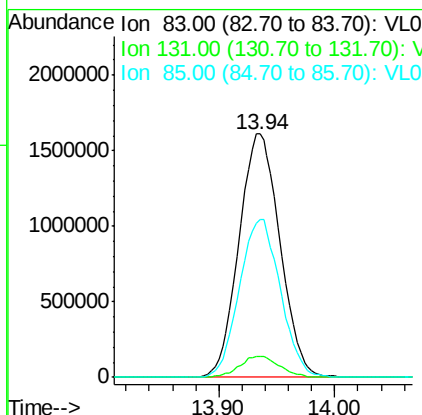
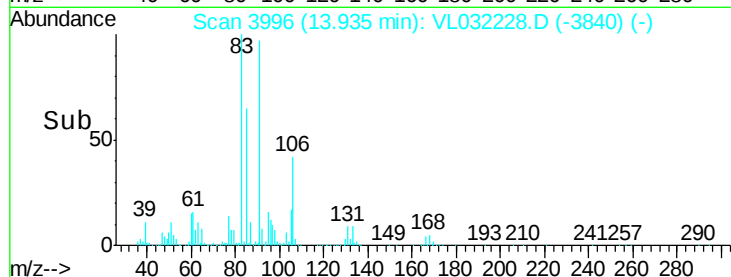
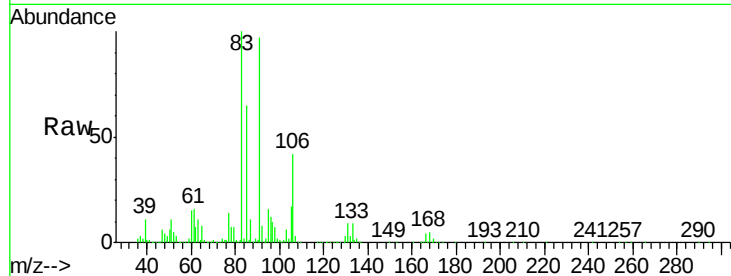
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.72 ppbv
 RT: 13.94 min Scan# 3996
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion: 83 Resp: 3962006
 Ion Ratio Lower Upper
 83 100
 131 8.5 4.3 12.8
 85 65.0 32.5 97.5

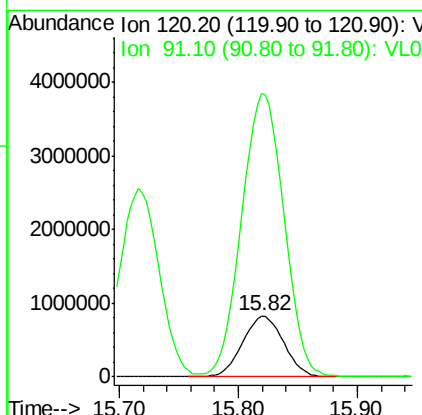
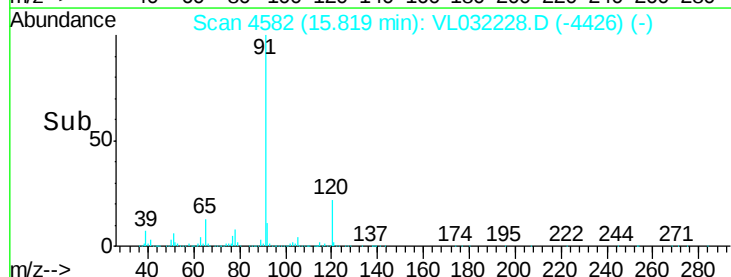
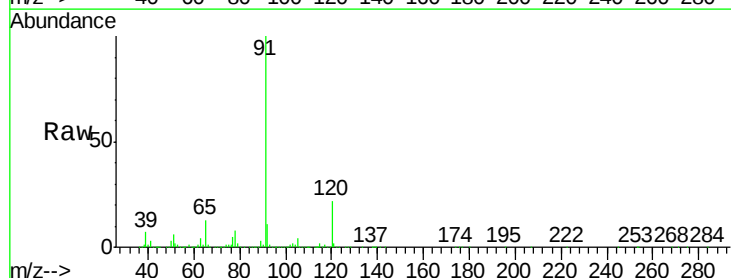
Manual Integrations
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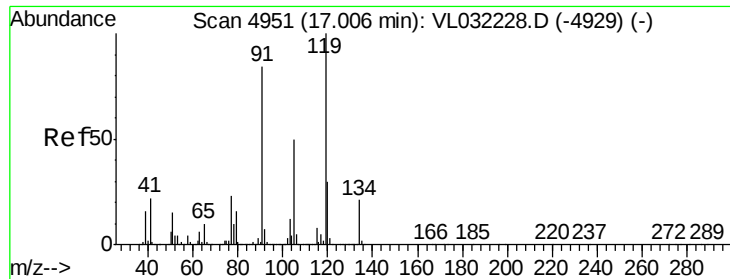
MMDadoda
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#64
 n-propylbenzene
 Concen: 7.57 ppbv
 RT: 15.82 min Scan# 4582
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Tgt Ion: 120 Resp: 1971208
 Ion Ratio Lower Upper
 120 100
 91 481.8 385.0 577.4





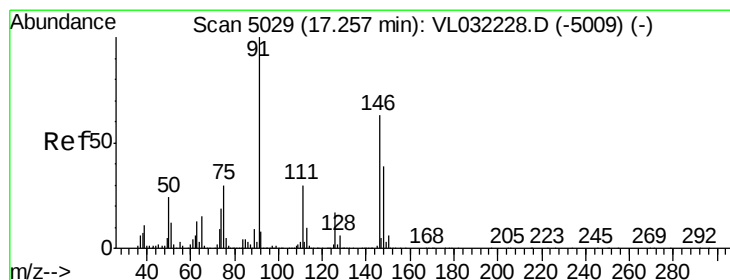
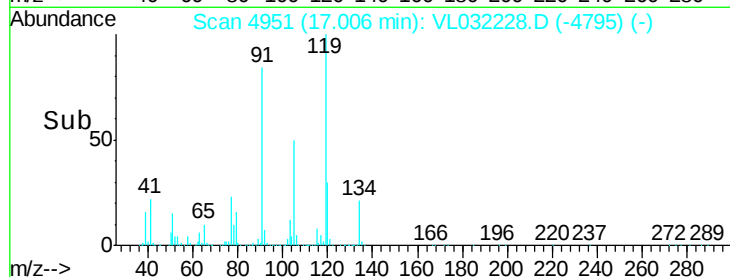
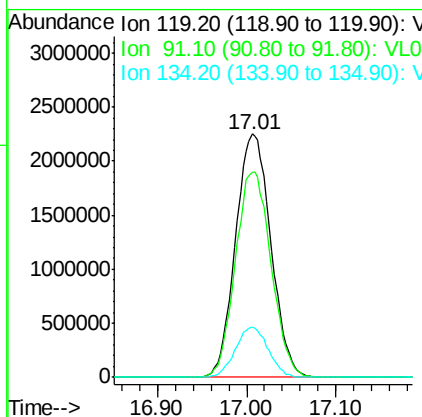
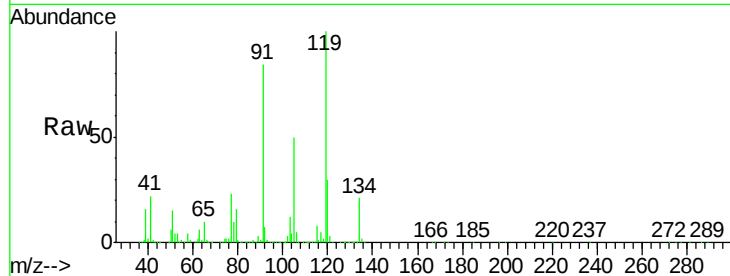
#65
tert-Butylbenzene
Concen: 7.01 ppbv
RT: 17.01 min Scan# 4951
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	85.6	68.6	102.8
134	19.3	15.4	23.2

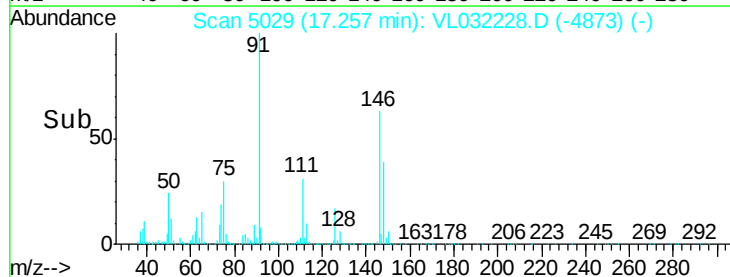
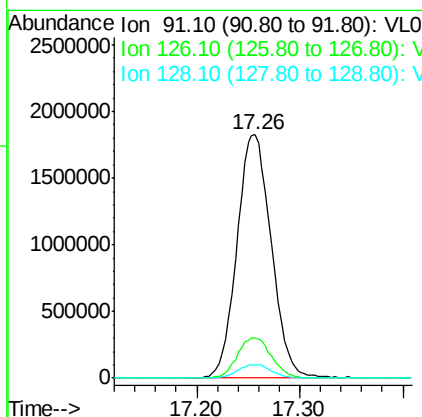
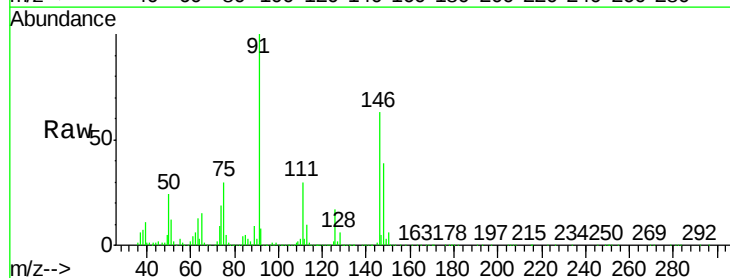
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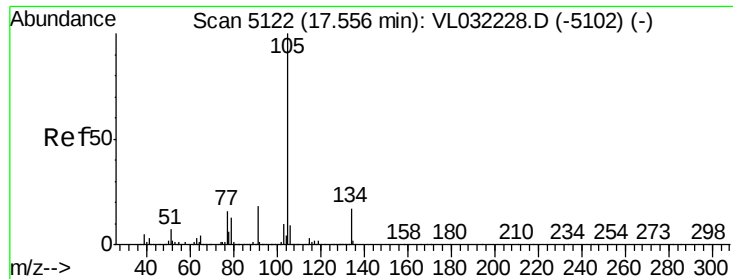
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7/13/2018 5:22:09 PM



#66
Benzyl Chloride
Concen: 7.91 ppbv
RT: 17.26 min Scan# 5029
Delta R.T. 0.00 min
Lab File: VL032228.D
Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.7	13.4	20.0
128	5.6	4.5	6.7





#67

sec-Butylbenzene

Concen: 7.13 ppbv

RT: 17.56 min Scan# 5122

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 105 Resp: 9214194

Ion Ratio Lower Upper

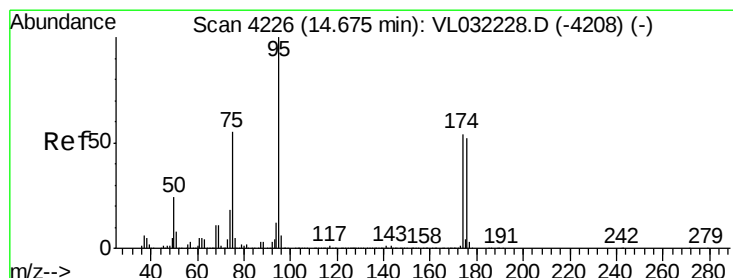
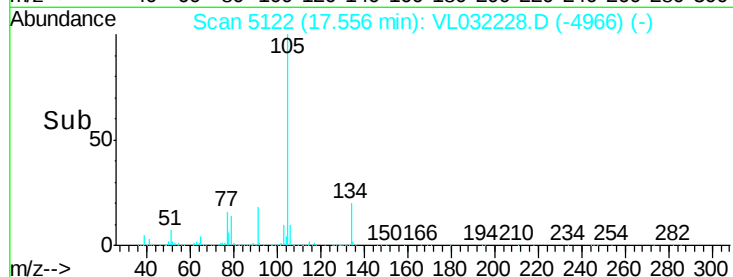
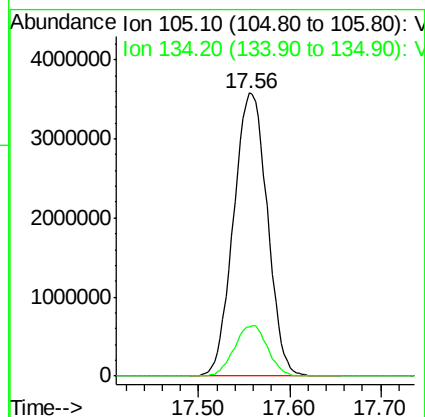
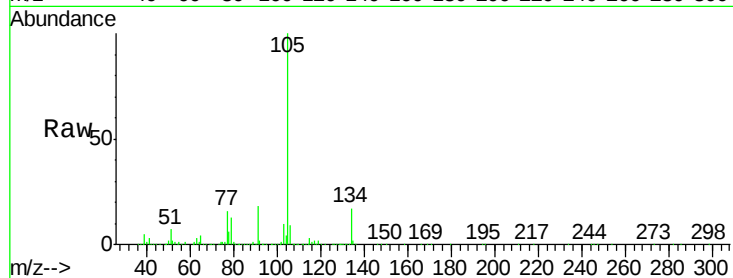
105 100

134 17.7 14.2 21.2

Manual Integrations
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7/13/2018 5:22:09 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.66 ppbv

RT: 14.67 min Scan# 4226

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

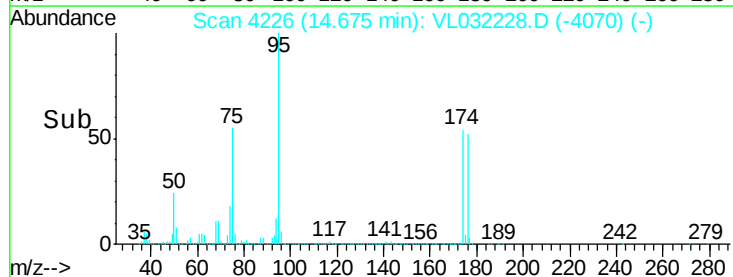
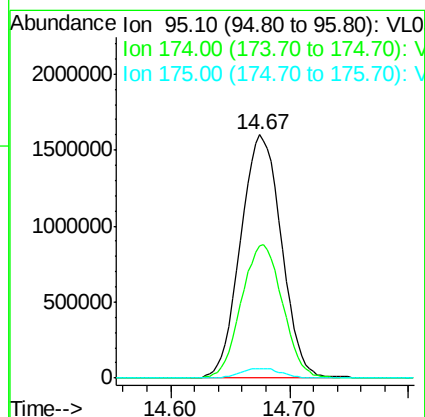
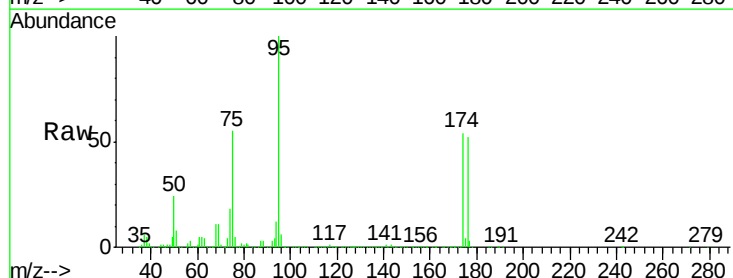
Tgt Ion: 95 Resp: 3800474

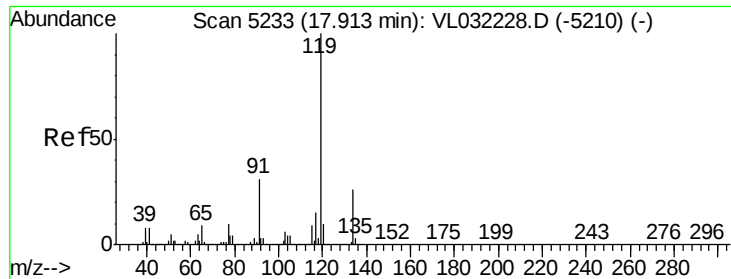
Ion Ratio Lower Upper

95 100

174 55.4 44.6 67.0

175 4.1 3.3 4.9





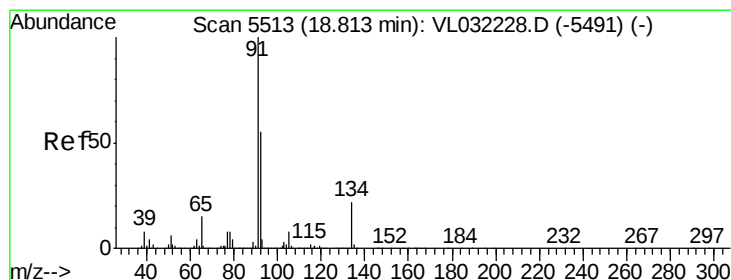
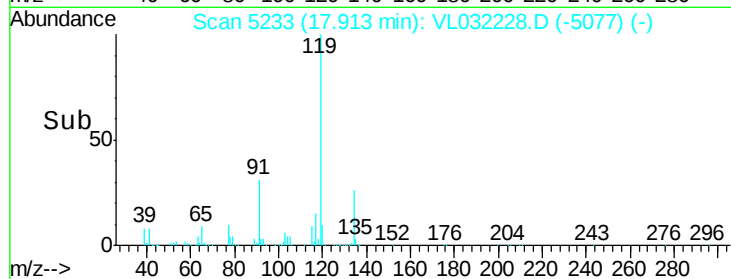
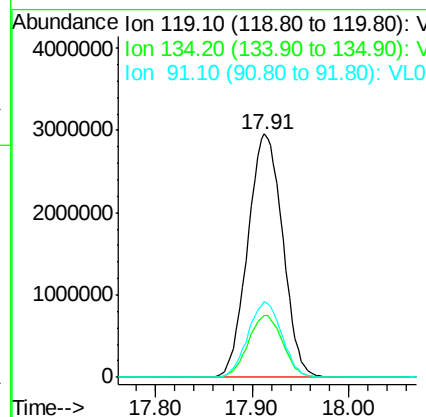
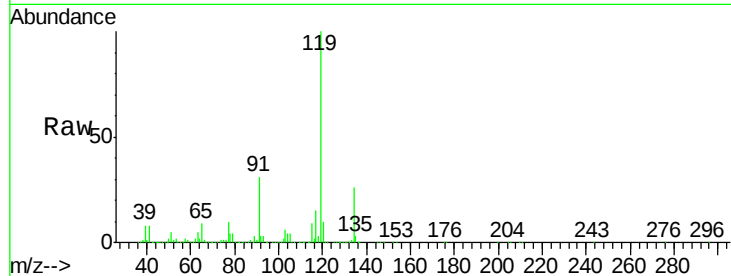
#69
 p-Isopropyltoluene
 Concen: 7.17 ppbv
 RT: 17.91 min Scan# 5233
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.1	30.1
91	30.1	24.2	36.2

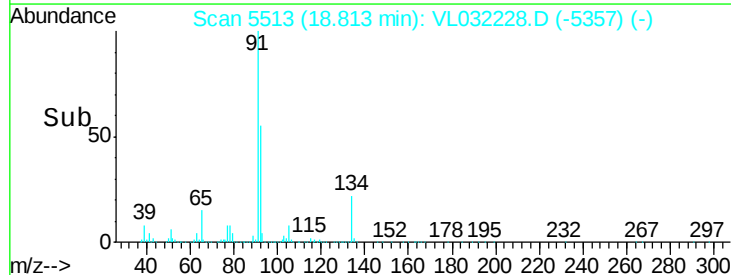
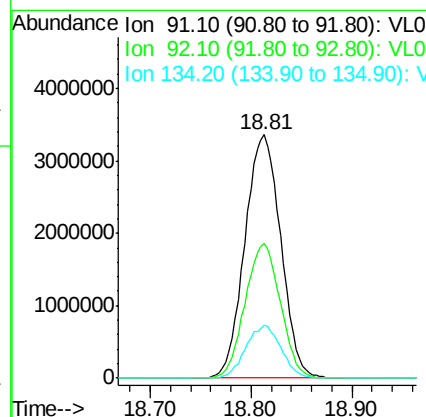
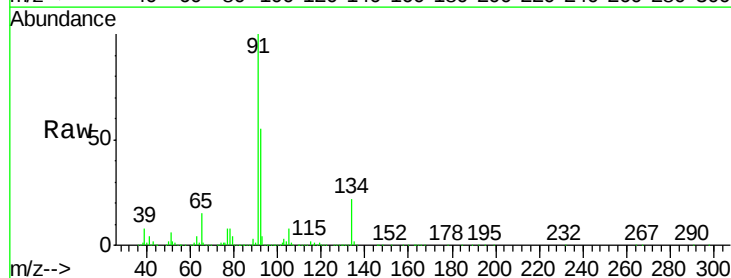
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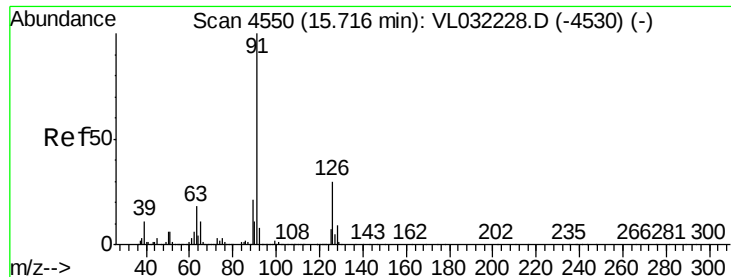
MMDadoda
 7/13/2018 5:22:09 PM



#70
 n-Butylbenzene
 Concen: 7.59 ppbv
 RT: 18.81 min Scan# 5513
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	43.6	65.4
134	21.4	17.1	25.7





#71

2-Chlorotoluene

Concen: 7.78 ppbv

RT: 15.72 min Scan# 4550

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 6076190

Ion Ratio Lower Upper

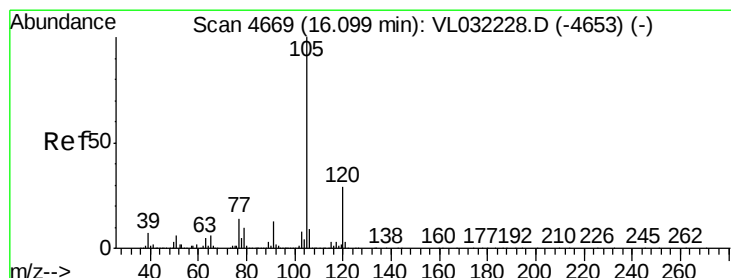
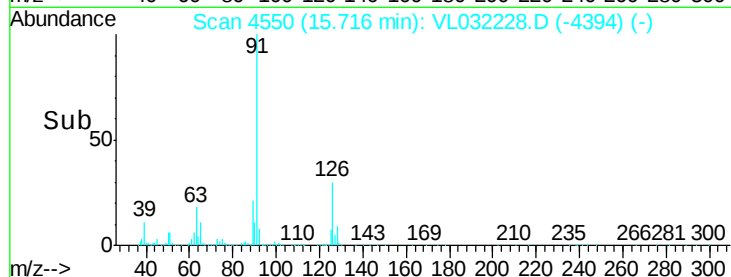
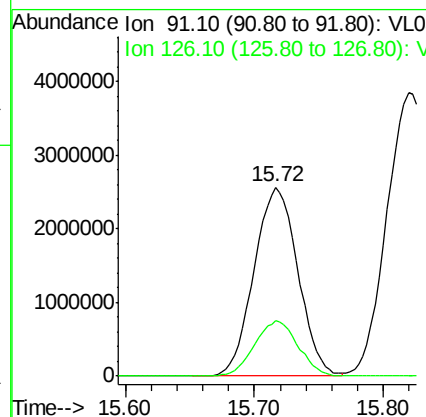
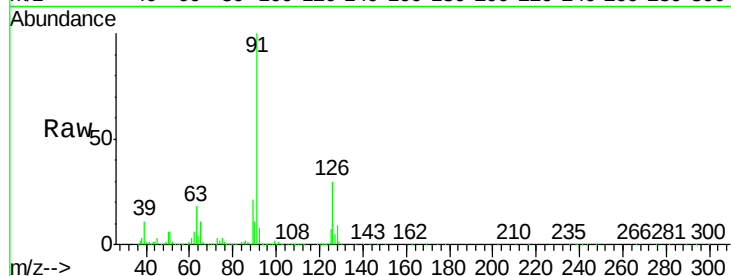
91 100

126 29.2 11.7 46.7

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7/13/2018 5:22:09 PM



#72

4-Ethyltoluene

Concen: 7.64 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Tgt Ion: 105 Resp: 6461558

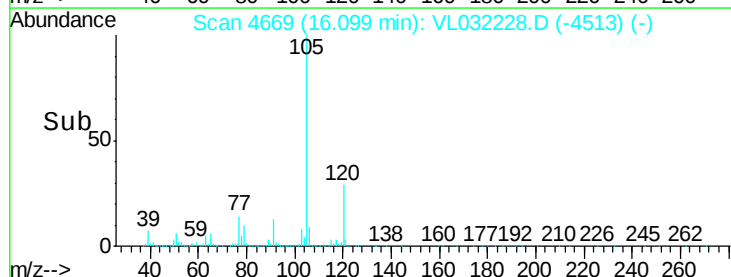
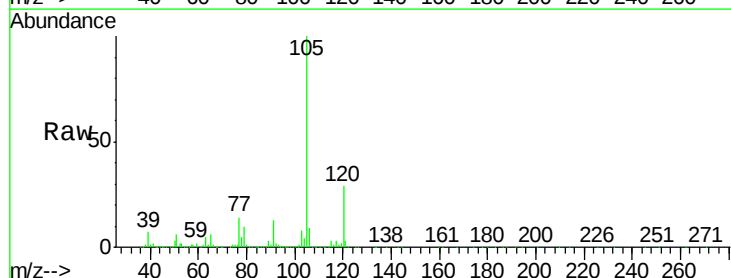
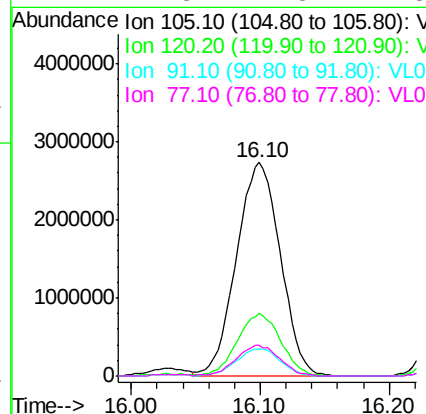
Ion Ratio Lower Upper

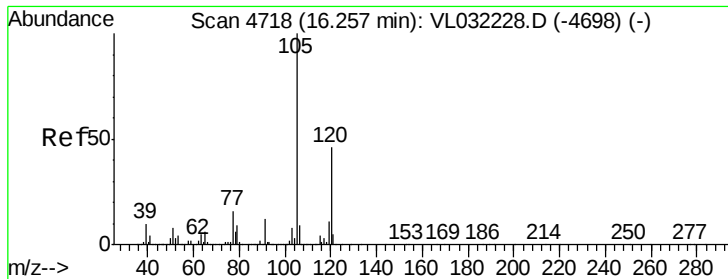
105 100

120 29.1 23.3 34.9

91 12.9 10.3 15.5

77 14.3 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 7.67 ppbv

RT: 16.26 min Scan# 4718

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 6105189

Ion Ratio Lower Upper

105 100

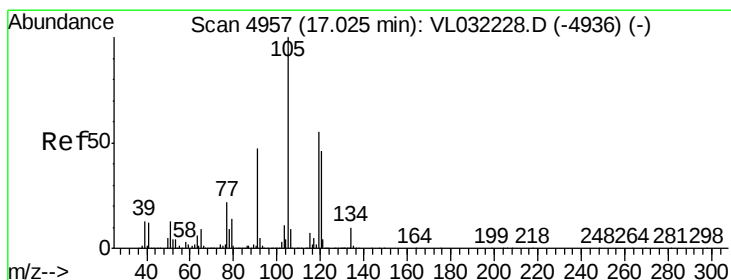
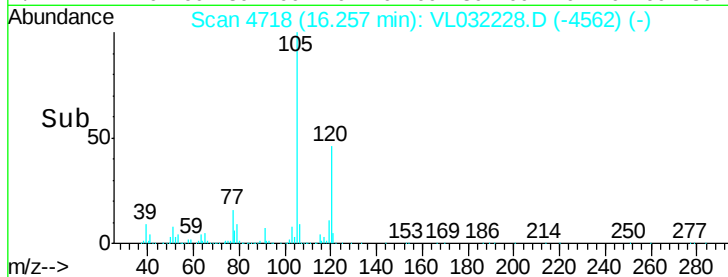
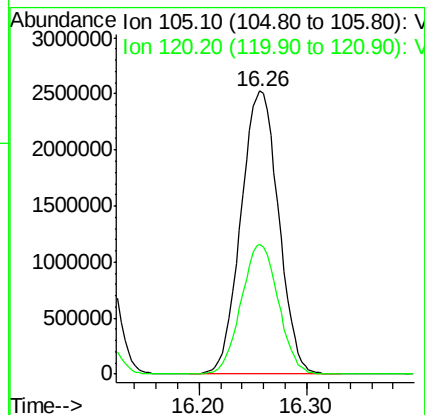
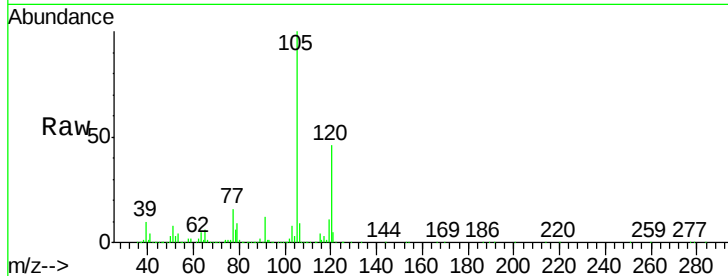
120 45.7 36.6 54.8

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7/13/2018 5:22:09 PM



#74

1,2,4-Trimethylbenzene

Concen: 7.39 ppbv

RT: 17.03 min Scan# 4957

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Tgt Ion:105 Resp: 5945770

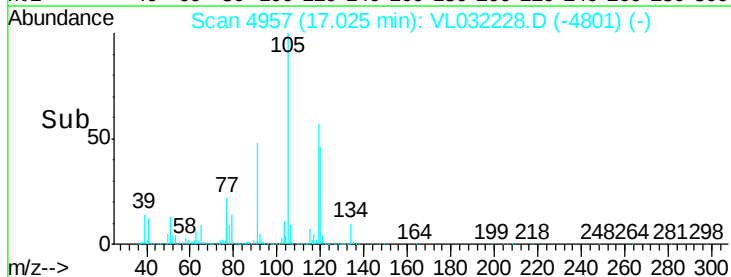
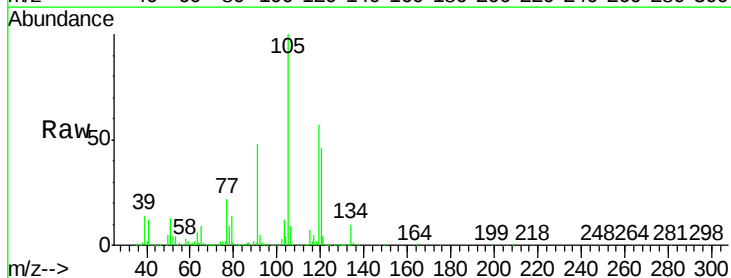
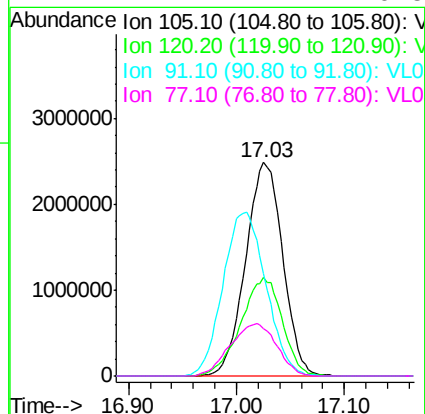
Ion Ratio Lower Upper

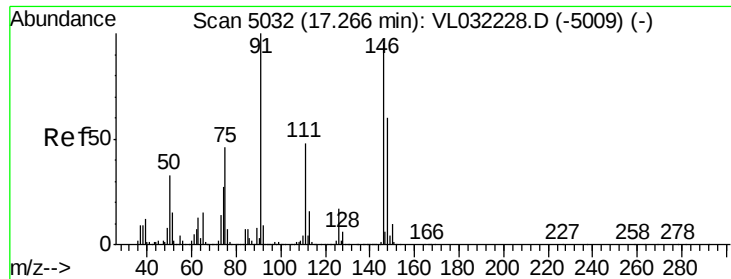
105 100

120 46.2 37.0 55.4

91 47.7 38.2 57.2

77 22.1 17.7 26.5





#75

1,3-Dichlorobenzene

Concen: 7.23 ppbv

RT: 17.27 min Scan# 5032

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 3288650

Ion Ratio Lower Upper

146 100

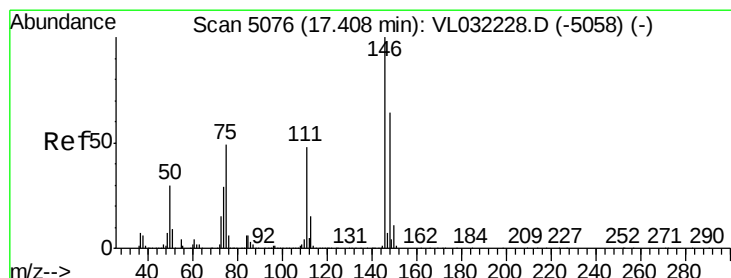
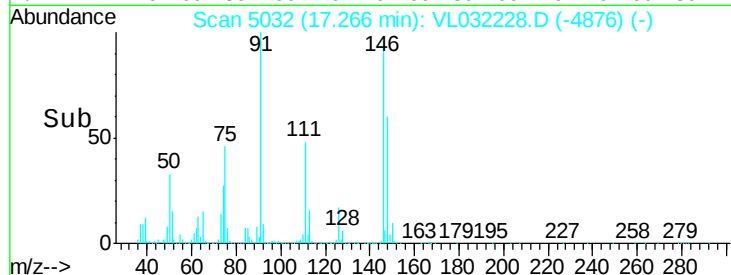
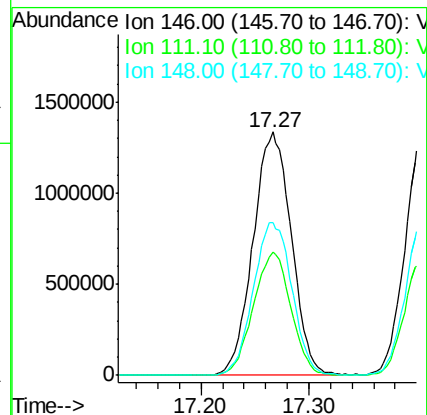
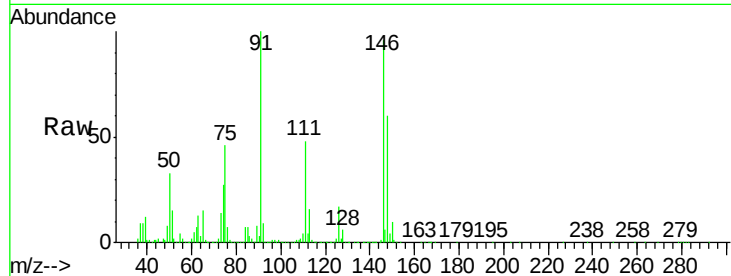
111 49.8 24.9 74.7

148 63.6 31.9 95.5

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 7.34 ppbv

RT: 17.41 min Scan# 5076

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

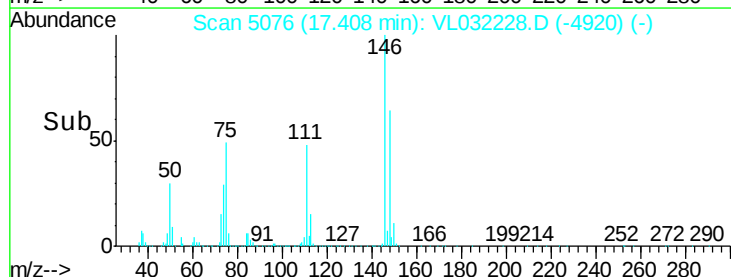
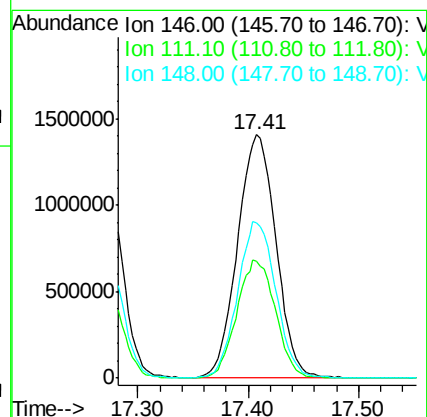
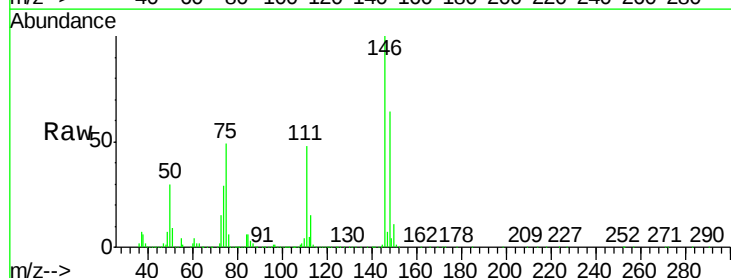
Tgt Ion:146 Resp: 3374382

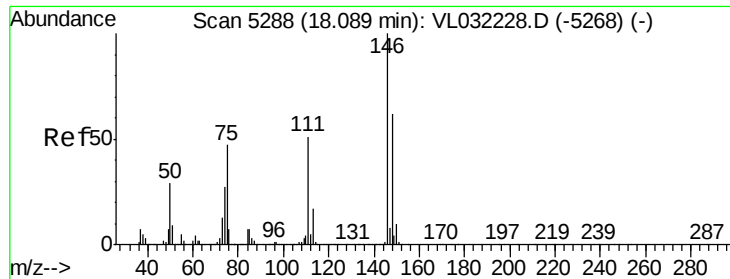
Ion Ratio Lower Upper

146 100

111 49.2 24.6 73.6

148 64.6 32.3 96.9





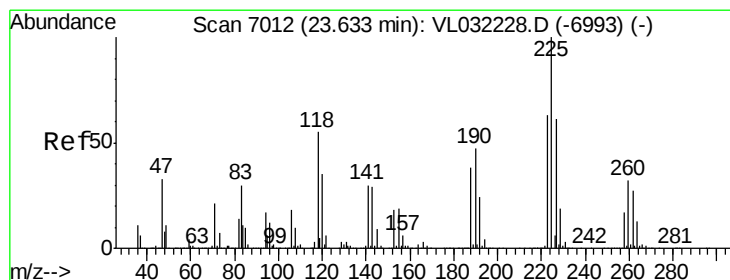
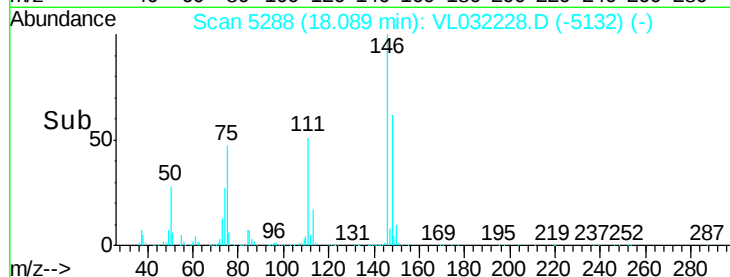
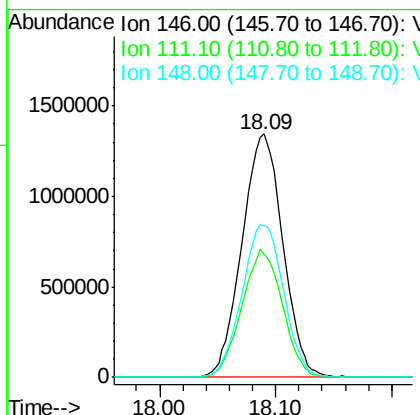
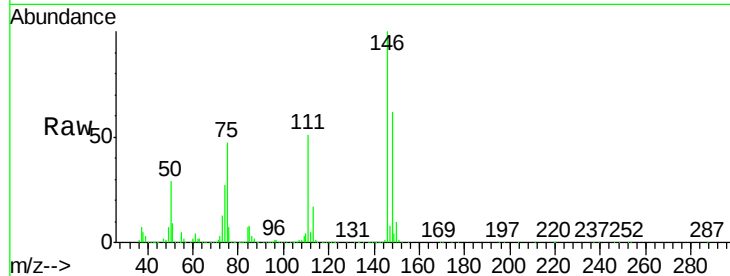
#77
 1,2-Dichlorobenzene
 Concen: 7.27 ppbv
 RT: 18.09 min Scan# 5288
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:146 Resp: 3294633
 Ion Ratio Lower Upper
 146 100
 111 52.2 26.1 78.3
 148 64.0 32.0 96.0

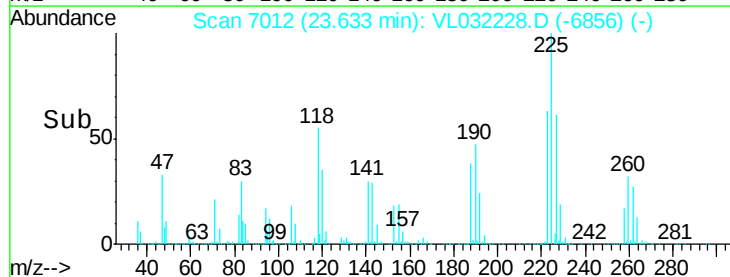
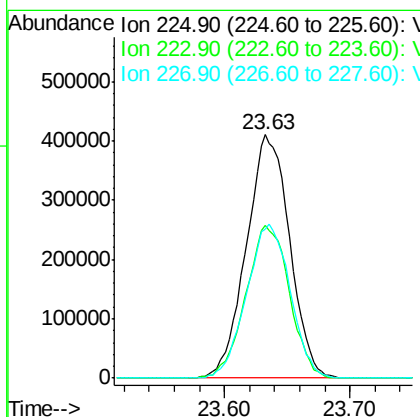
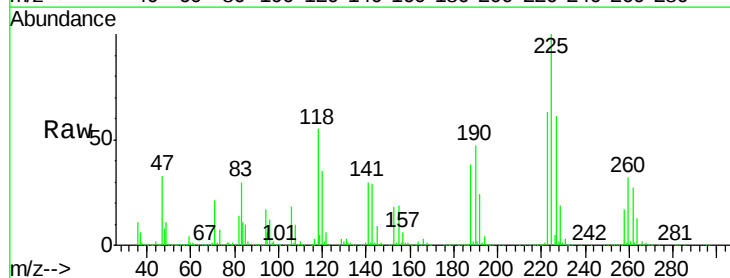
Manual Integrations
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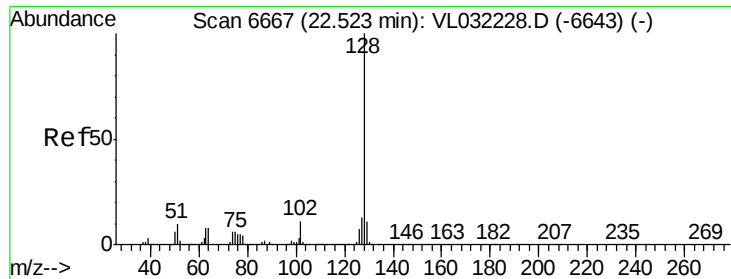
MMDadoda
 7/13/2018 5:22:09 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 6.38 ppbv
 RT: 23.63 min Scan# 7012
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Tgt Ion:225 Resp: 986377
 Ion Ratio Lower Upper
 225 100
 223 62.9 50.3 75.5
 227 63.6 50.9 76.3





#79

Naphthalene

Concen: 8.45 ppbv

RT: 22.52 min Scan# 6667

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:128 Resp: 6070845

Ion Ratio Lower Upper

128 100

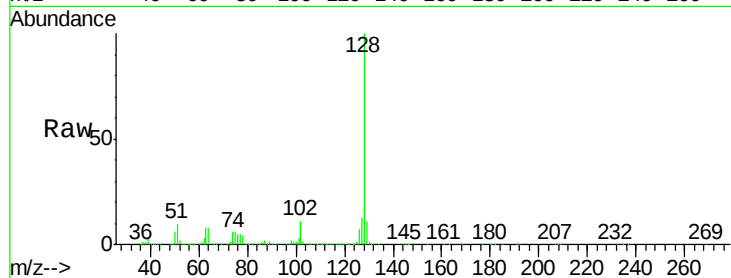
127 12.5 10.0 15.0

129 11.2 9.0 13.4

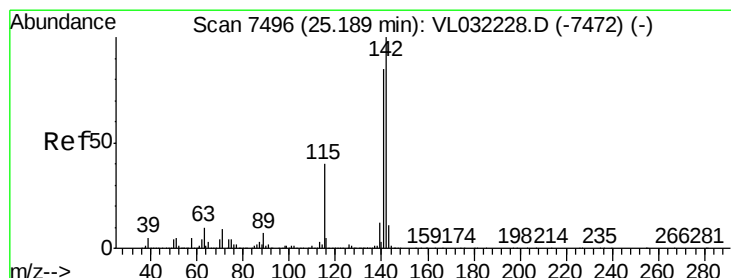
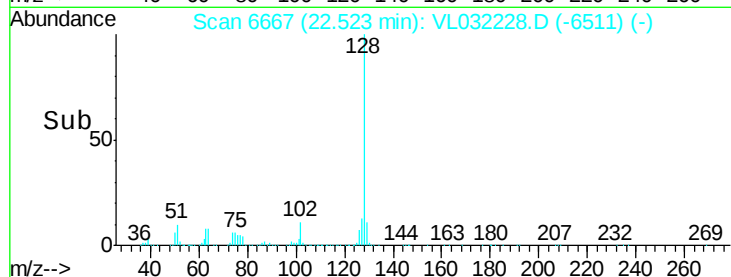
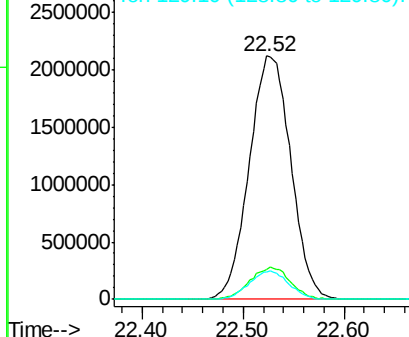
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 12.82 ppbv

RT: 25.19 min Scan# 7496

Delta R.T. 0.00 min

Lab File: VL032228.D

Acq: 12 Jul 2018 18:03

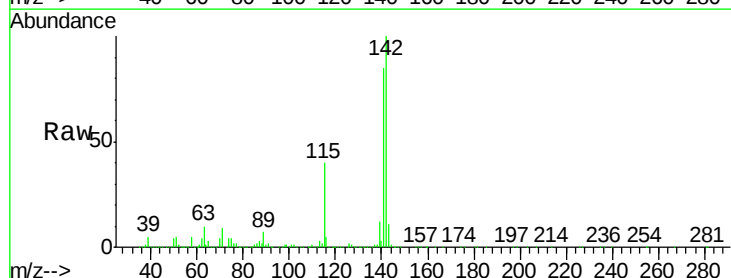
Tgt Ion:142 Resp: 3255607

Ion Ratio Lower Upper

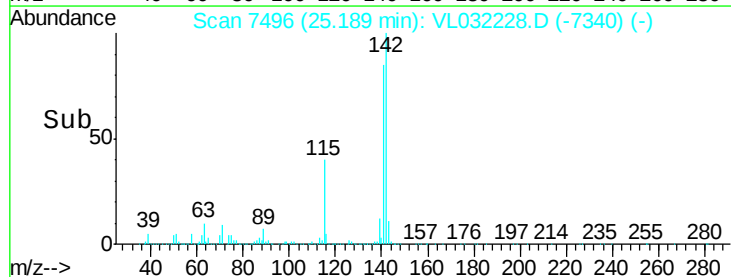
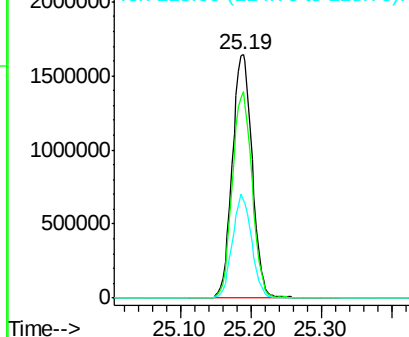
142 100

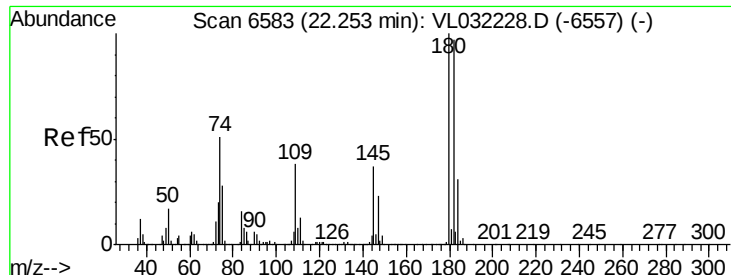
141 83.8 67.0 100.6

115 40.8 32.6 49.0



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





#81
 1,2,4-Trichlorobenzene
 Concen: 8.36 ppbv
 RT: 22.25 min Scan# 6583
 Delta R.T. 0.00 min
 Lab File: VL032228.D
 Acq: 12 Jul 2018 18:03

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:180 Resp: 2700064
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.1 114.1
 184 30.3 24.2 36.4

Manual Integrations
 APPROVED

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