

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032627.D
 Acq On : 17 Oct 2018 2:45
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

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 10/19/2018 4:36:21 PM

Quant Time: Oct 17 06:51:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 2018
 QLast Update : Wed Oct 17 05:31:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1309739	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2973421	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3128860m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2329143	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	919846	5.56	ppbv	100
3) Chlorodifluoromethane	3.03	51	1010090	9.24	ppbv	100
4) Chloromethane	3.18	50	566009	9.40	ppbv	100
5) Vinyl Chloride	3.31	62	579872	9.63	ppbv	100
6) Bromomethane	3.53	94	356896	9.42	ppbv	100
7) Chloroethane	3.62	64	222871	9.42	ppbv	100
8) Dichlorotetrafluoroethane	3.23	85	1340519	9.07	ppbv	100
9) Propene	3.05	41	413986	10.14	ppbv	100
10) Heptane	8.27	43	1648719	11.10	ppbv	100
11) Trichlorofluoromethane	4.02	101	1456628	9.04	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1076831	8.98	ppbv	100
13) Ethanol	3.66	45	109921	9.63	ppbv	100
14) Bromoethene	3.80	108	432959	9.66	ppbv	100
15) Acetone	3.92	43	1026683	8.93	ppbv	100
16) 1,3-Butadiene	3.38	39	410342	8.94	ppbv	100
17) tert-Butyl alcohol	4.37	59	101185m	10.77	ppbv	100
18) 1,1-Dichloroethene	4.37	96	504770	9.44	ppbv	100
19) Isopropyl Alcohol	4.04	45	749326	10.05	ppbv	100
20) Methylene Chloride	4.43	84	446236	8.47	ppbv	100
21) Allyl Chloride	4.49	41	856524	9.79	ppbv	100
22) trans-1,2-Dichloroethene	4.98	96	595574	9.58	ppbv	100
23) Vinyl Acetate	5.17	43	1995549	11.02	ppbv	100
24) 1,1-Dichloroethane	5.11	63	1626378	10.16	ppbv	100
25) Ethyl Acetate	5.79	43	2683514	10.05	ppbv	100
26) Hexane	5.80	57	1254760	10.29	ppbv	100
27) Carbon Disulfide	4.63	76	1390464	9.53	ppbv	100
28) Methyl tert-Butyl Ether	5.13	73	1653635	11.47	ppbv	100
29) Chloroform	5.87	83	2042836	9.79	ppbv	100
30) Cyclohexane	7.26	84	1055475	11.01	ppbv	100
31) cis-1,2-Dichloroethene	5.66	61	1282923	11.08	ppbv	100
32) 1,1,1-Trichloroethane	6.64	97	1977298	9.81	ppbv	100
34) 2-Butanone	5.35	43	1775651	11.58	ppbv	100
35) Carbon Tetrachloride	7.15	117	2089619	9.78	ppbv	100
36) Benzene	7.03	78	2567667	10.91	ppbv	100
37) 1,2-Dichloroethane	6.43	62	1607473	10.26	ppbv	100
38) Trichloroethene	7.98	130	949938	10.97	ppbv	100
39) 1,2-Dichloropropane	7.76	63	994801	10.34	ppbv	100
40) 1,4-Dioxane	7.97	88	377296m	11.90	ppbv	100
41) Tetrahydrofuran	6.17	42	1007544	11.78	ppbv	100
42) Bromodichloromethane	7.94	83	2220145	10.12	ppbv	100
43) Methyl Methacrylate	8.16	69	1063905	11.64	ppbv	100

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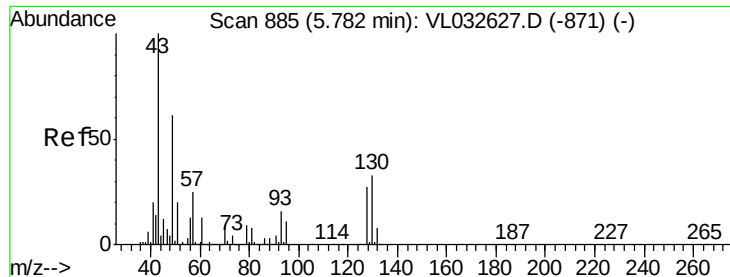
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	4491276	10.72	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	1488697	12.93	ppbv	100
46) cis-1,3-Dichloropropene	8.86	75	1661988	12.68	ppbv	100
47) 1,1,2-Trichloroethane	9.64	97	1154074	10.11	ppbv	100
48) Dibromochloromethane	10.47	129	2021874	10.65	ppbv	100
49) Bromoform	13.23	173	1526047	10.53	ppbv	100
50) 4-Methyl-2-Pentanone	8.89	43	2663849	11.31	ppbv	100
51) 2-Hexanone	10.29	43	2290157	12.43	ppbv	100
52) Tetrachloroethene	11.40	164	825318	10.90	ppbv	100
53) Toluene	9.97	91	3195824	11.91	ppbv	100
54) 1,2-Dibromoethane	10.78	107	1766898	11.04	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.30	131	1318927	9.32	ppbv	100
57) Chlorobenzene	12.33	112	2240809	9.45	ppbv	100
58) Ethyl Benzene	12.89	91	4023228	11.69	ppbv	100
59) m/p-Xylene	13.17	91	6656319m	21.31	ppbv	
60) o-Xylene	13.88	91	3268522	10.61	ppbv	100
61) Styrene	13.71	104	2352419	12.44	ppbv	100
62) Isopropylbenzene	14.85	105	4626099	10.54	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2459288	9.17	ppbv	100
64) n-propylbenzene	15.75	120	1183088	10.69	ppbv	100
65) tert-Butylbenzene	16.93	119	3926584	10.56	ppbv	100
66) Benzyl Chloride	17.18	91	2341841	11.42	ppbv	100
67) sec-Butylbenzene	17.48	105	5782567	10.42	ppbv	100
69) p-Isopropyltoluene	17.84	119	4606799	10.83	ppbv	100
70) n-Butylbenzene	18.74	91	4965711	10.71	ppbv	100
71) 2-Chlorotoluene	15.64	91	3600051	11.15	ppbv	100
72) 4-Ethyltoluene	16.02	105	3786292	11.38	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	3611348	10.91	ppbv	100
74) 1,2,4-Trimethylbenzene	16.95	105	3678055	10.07	ppbv	100
75) 1,3-Dichlorobenzene	17.19	146	2005014	9.45	ppbv	100
76) 1,4-Dichlorobenzene	17.33	146	1978337	10.34	ppbv	99
77) 1,2-Dichlorobenzene	18.01	146	1979267	9.93	ppbv	100
78) Hexachloro-1,3-Butadiene	23.56	225	1079218	11.17	ppbv	100
79) Naphthalene	22.44	128	3027940	12.31	ppbv	100
80) Naphthalene,2-methyl-	25.13	142	829059	17.31	ppbv	100
81) 1,2,4-Trichlorobenzene	22.16	180	1410302	11.58	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.78 min Scan# 885

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 49 Resp: 1309739

Ion Ratio Lower Upper

49 100

128 44.5 22.3 66.8

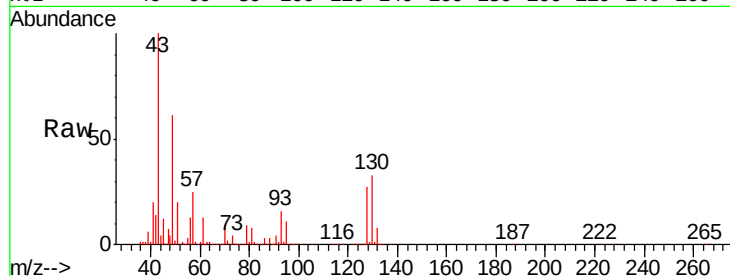
130 56.9 28.4 85.3

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

800000

600000

400000

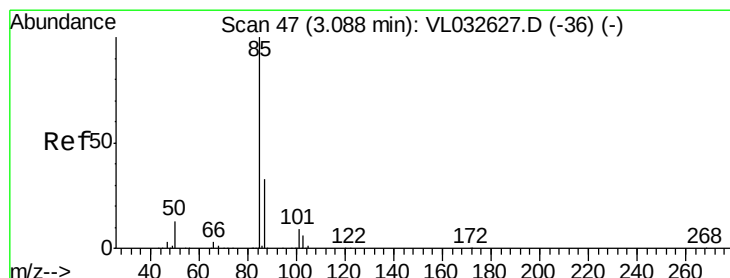
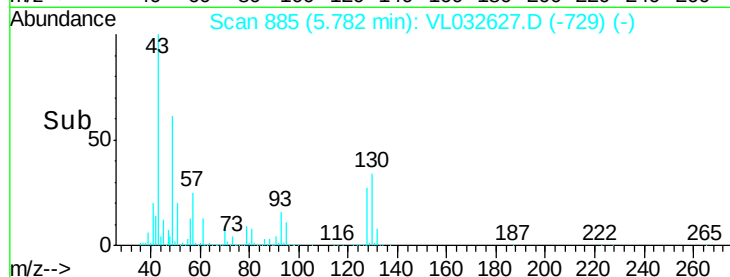
200000

0

5.78

5.70 5.75 5.80 5.85

Time-->



#2

Dichlorodifluoromethane

Concen: 5.56 ppbv

RT: 3.09 min Scan# 47

Delta R.T. 0.00 min

Lab File: VL032627.D

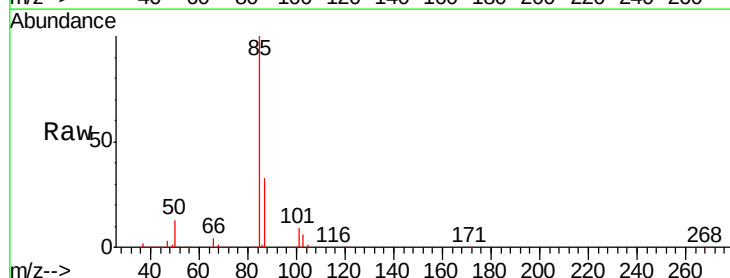
Acq: 17 Oct 2018 2:45

Tgt Ion: 85 Resp: 919846

Ion Ratio Lower Upper

85 100

87 32.7 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

800000

600000

400000

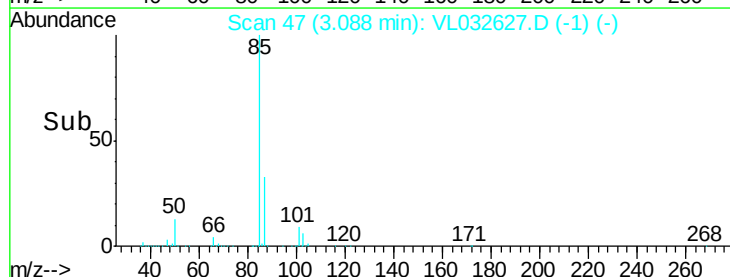
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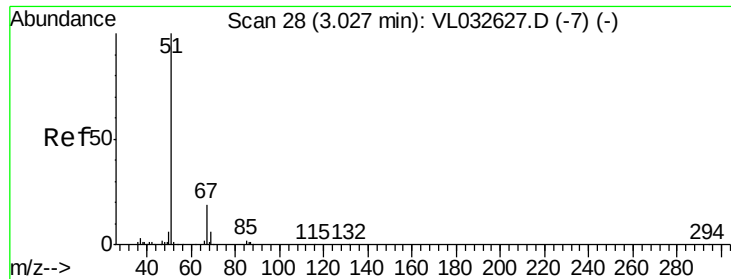
0

3.09

3.05 3.10 3.15

Time-->





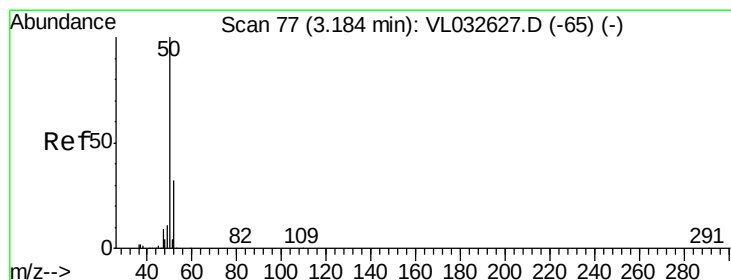
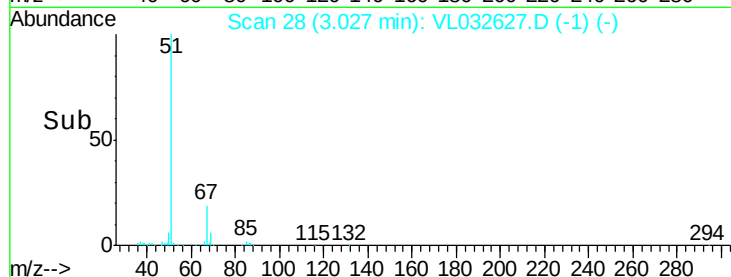
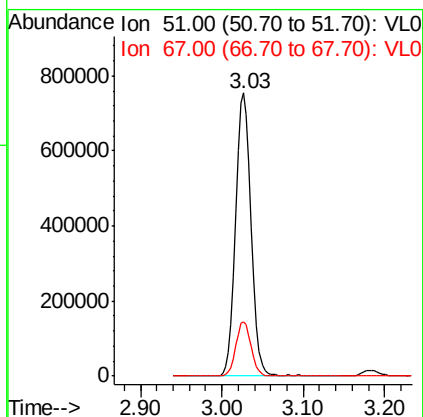
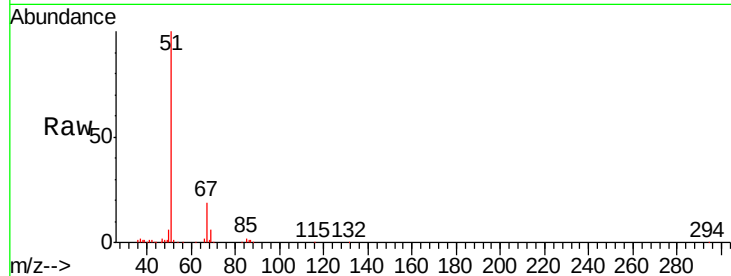
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Chlorodifluoromethane
Concen: 9.24 ppbv
RT: 3.03 min Scan# 28
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 51 Resp: 1010090
Ion Ratio Lower Upper
51 100
67 19.0 15.2 22.8

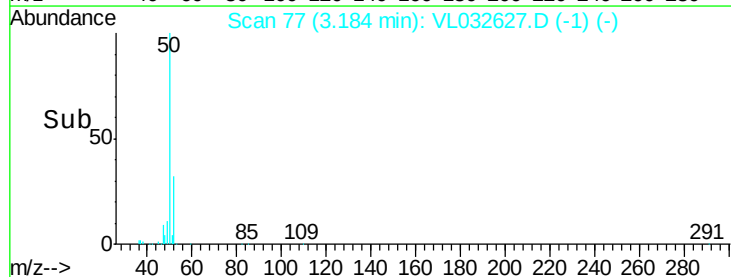
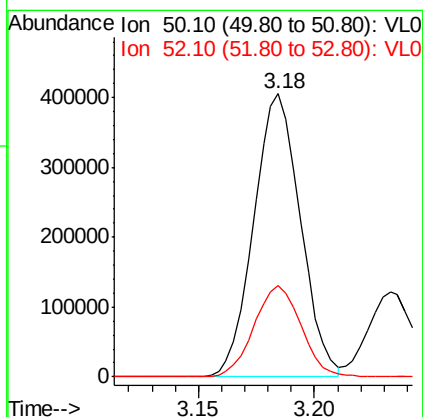
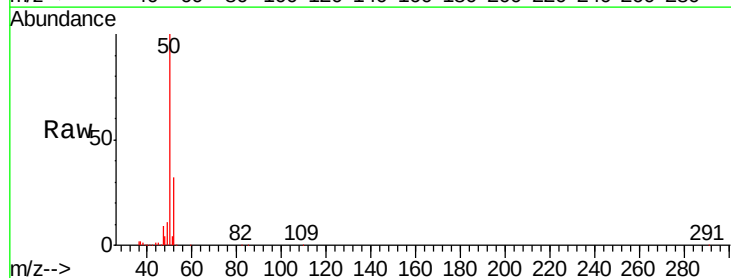
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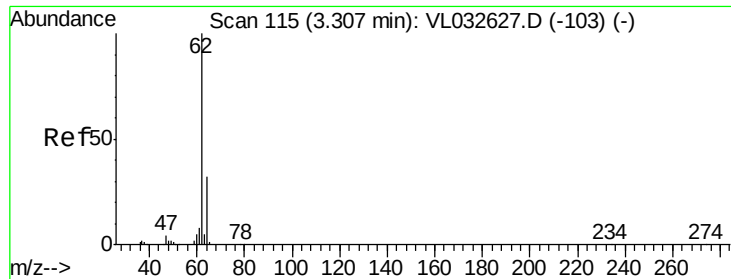
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#4
Chloromethane
Concen: 9.40 ppbv
RT: 3.18 min Scan# 77
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion: 50 Resp: 566009
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9





#5

Vinyl Chloride

Concen: 9.63 ppbv

RT: 3.31 min Scan# 115

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 579872

Ion Ratio Lower Upper

62 100

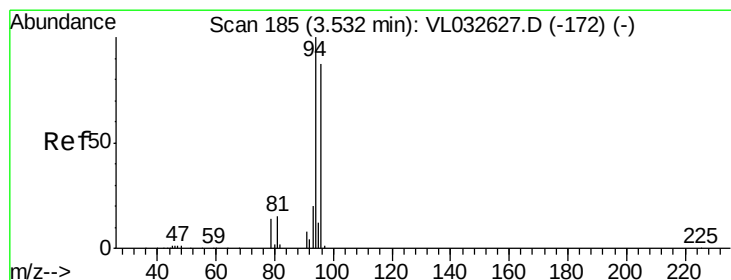
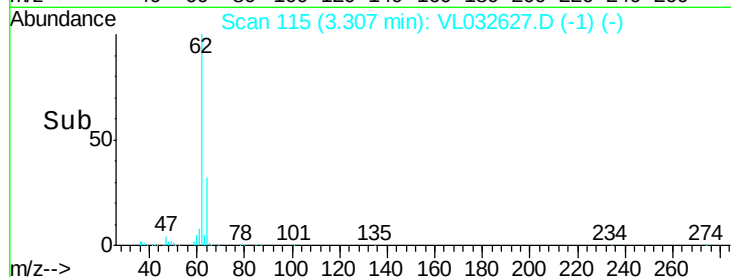
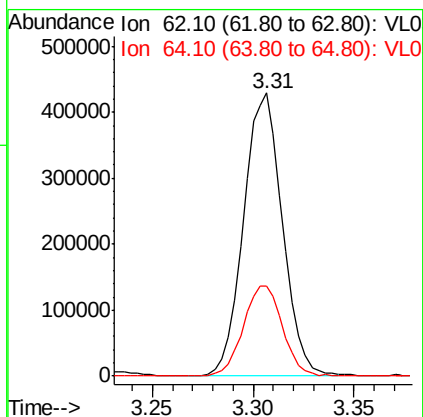
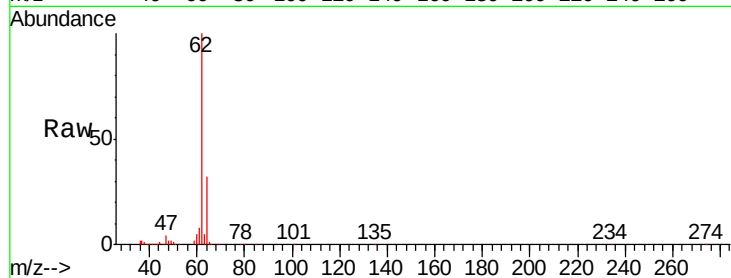
64 31.9 25.5 38.3

Manual Integrations

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#6

Bromomethane

Concen: 9.42 ppbv

RT: 3.53 min Scan# 185

Delta R.T. 0.00 min

Lab File: VL032627.D

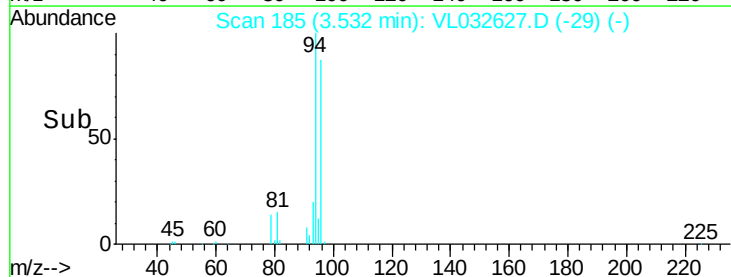
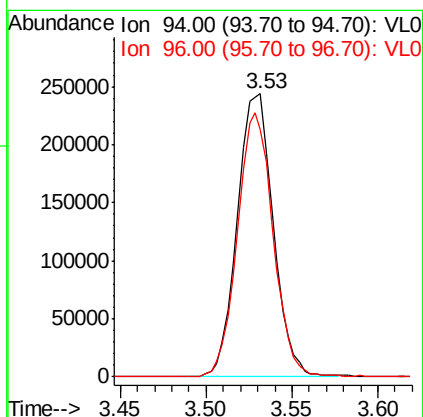
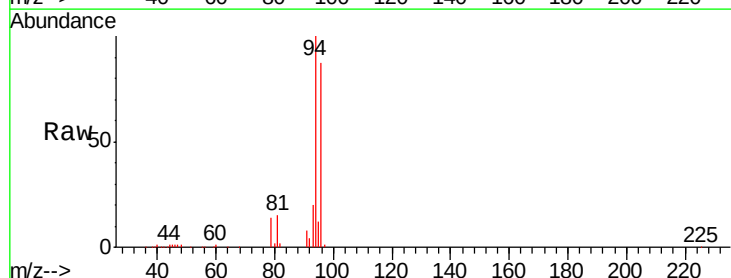
Acq: 17 Oct 2018 2:45

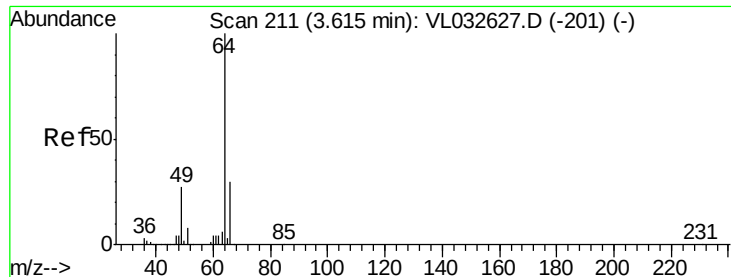
Tgt Ion: 94 Resp: 356896

Ion Ratio Lower Upper

94 100

96 87.3 69.8 104.8





#7

Chloroethane

Concen: 9.42 ppbv

RT: 3.62 min Scan# 211

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 64 Resp: 222871

Ion Ratio Lower Upper

64 100

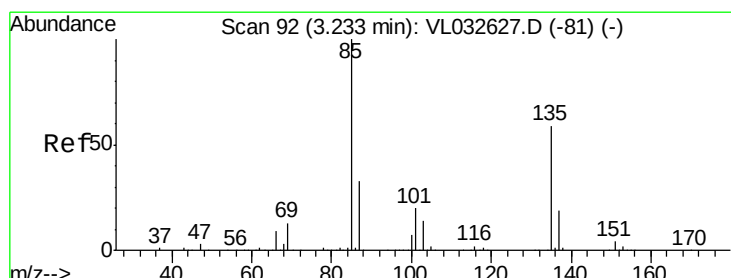
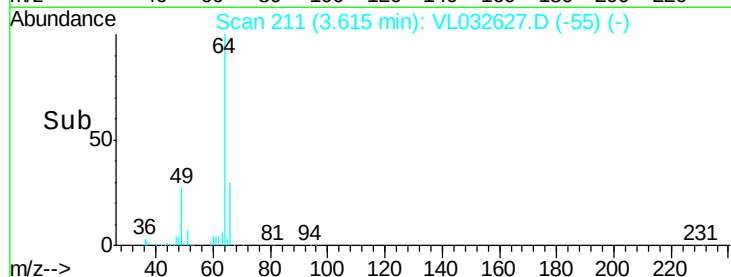
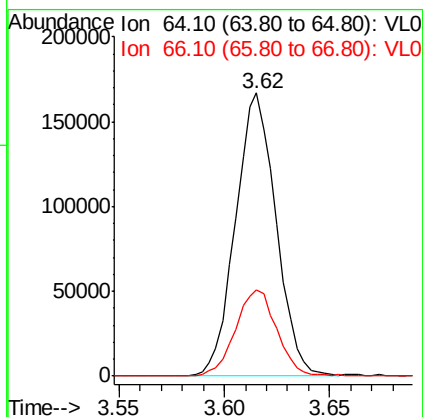
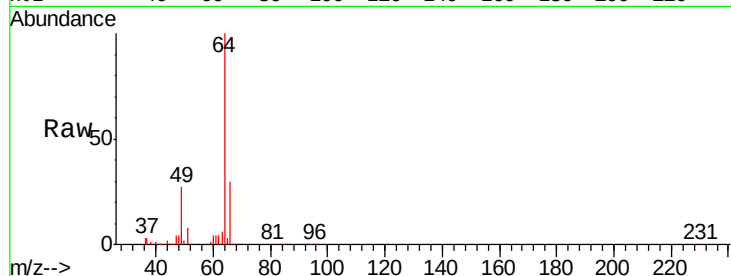
66 30.5 24.4 36.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.07 ppbv

RT: 3.23 min Scan# 92

Delta R.T. 0.00 min

Lab File: VL032627.D

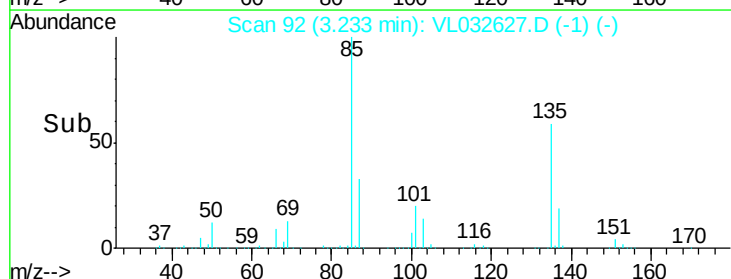
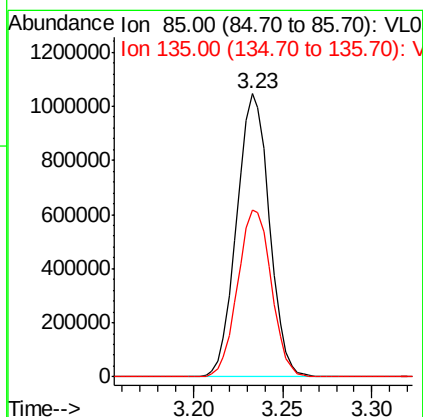
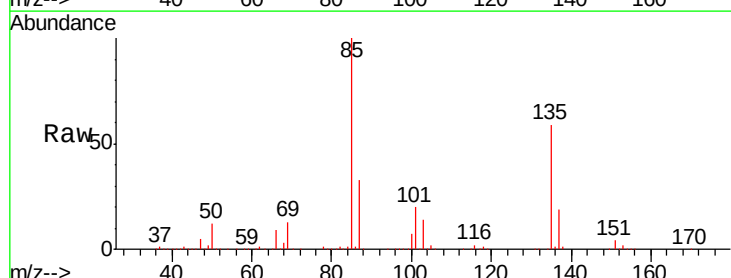
Acq: 17 Oct 2018 2:45

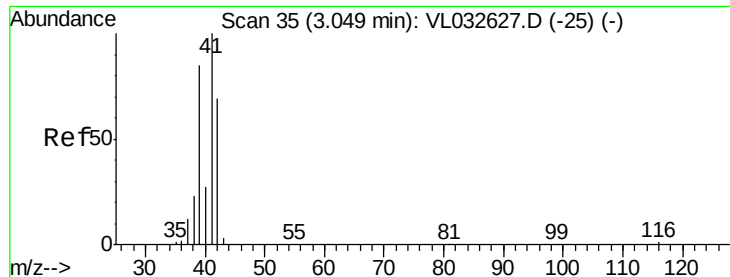
Tgt Ion: 85 Resp: 1340519

Ion Ratio Lower Upper

85 100

135 61.2 49.0 73.4





#9

Propene

Concen: 10.14 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 413986

Ion Ratio Lower Upper

41 100

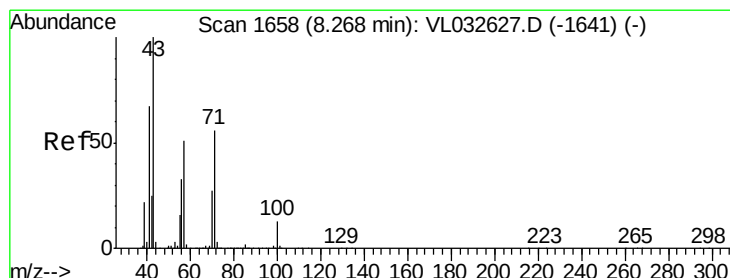
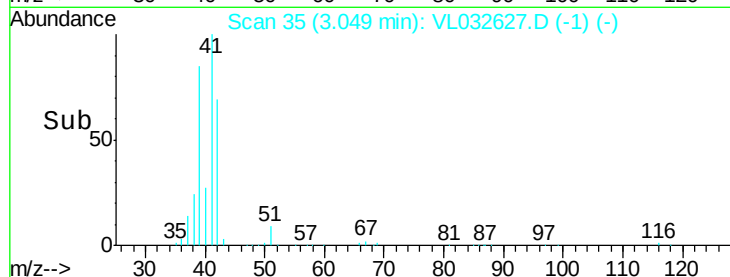
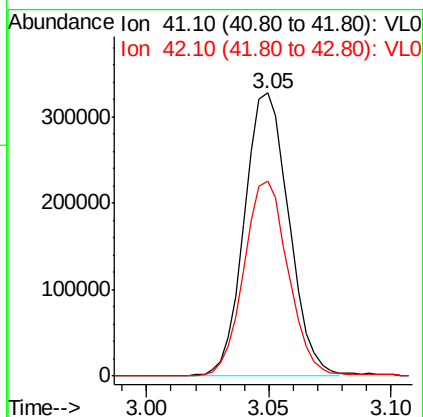
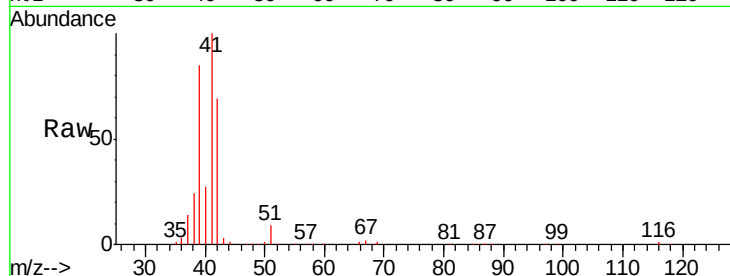
42 69.2 55.4 83.0

Manual Integrations

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#10

Heptane

Concen: 11.10 ppbv

RT: 8.27 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL032627.D

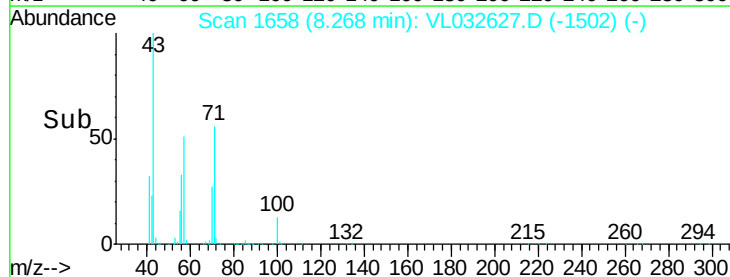
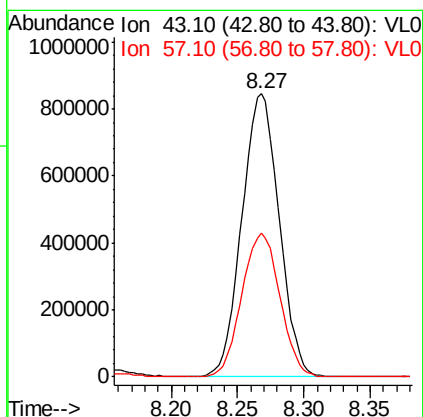
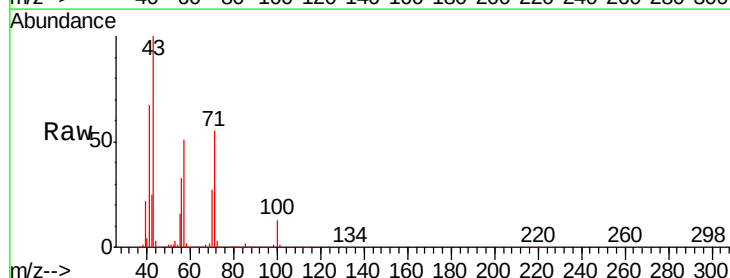
Acq: 17 Oct 2018 2:45

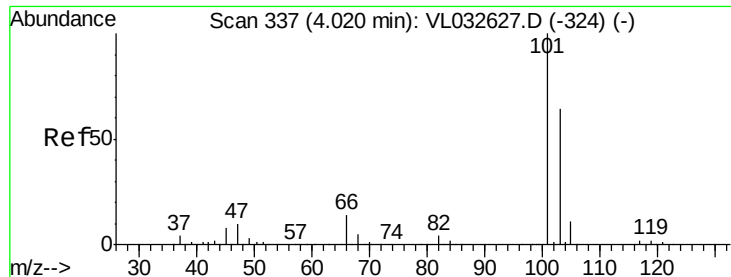
Tgt Ion: 43 Resp: 1648719

Ion Ratio Lower Upper

43 100

57 51.9 41.5 62.3





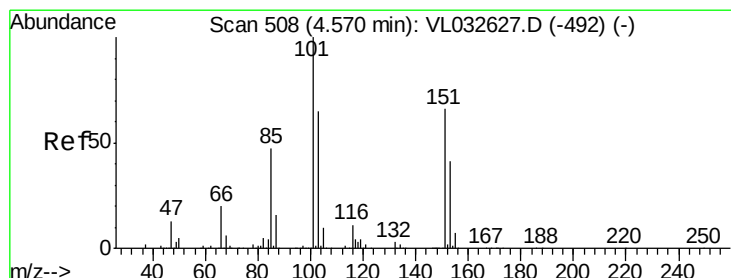
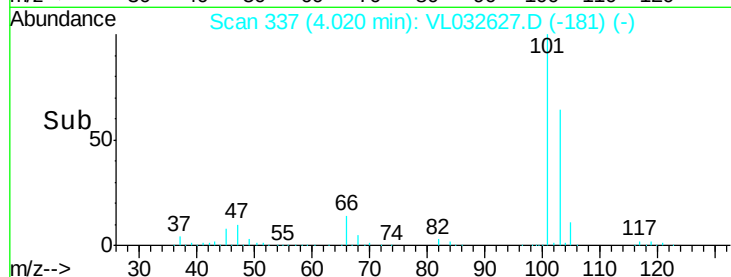
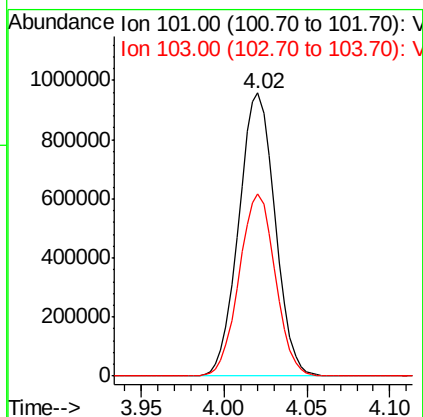
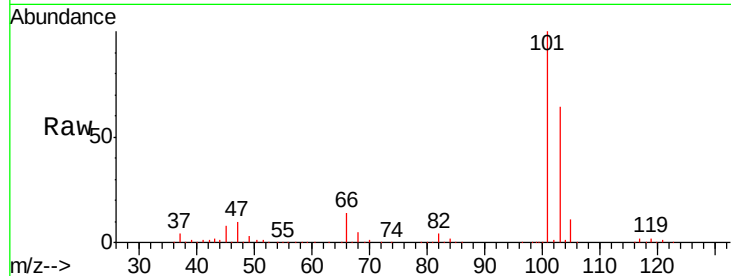
#11
 Trichlorofluoromethane
 Concen: 9.04 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion:101 Resp: 1456628
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.4 77.2

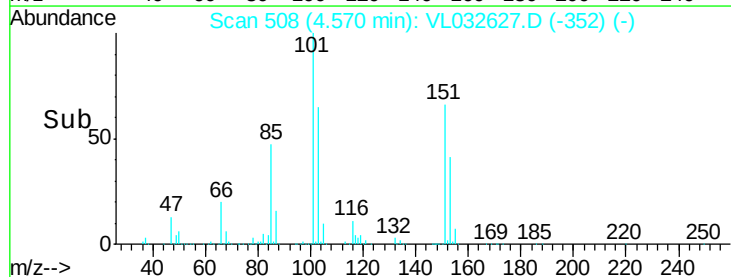
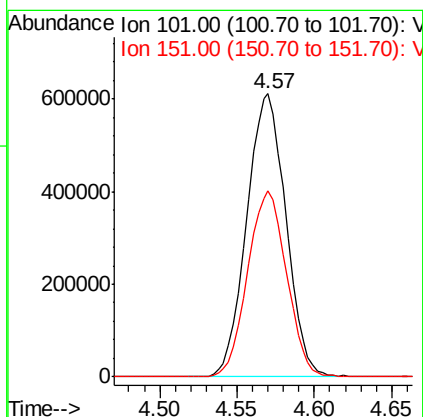
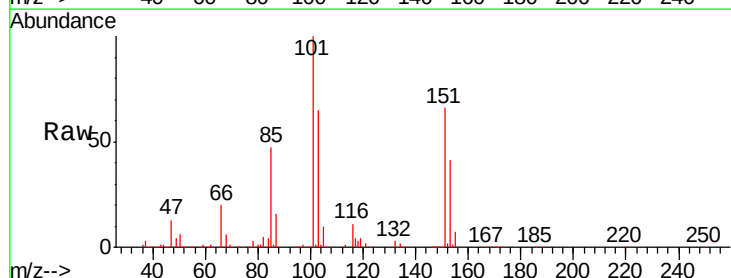
Manual Integrations
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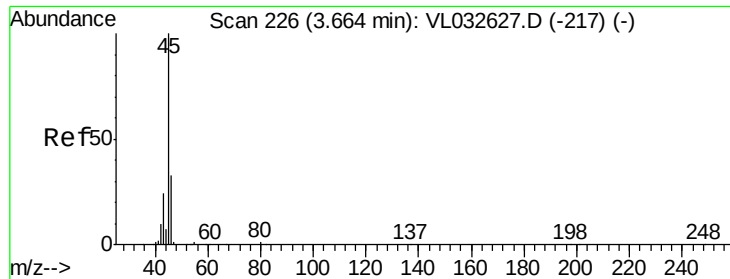
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.98 ppbv
 RT: 4.57 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Tgt Ion:101 Resp: 1076831
 Ion Ratio Lower Upper
 101 100
 151 65.4 52.3 78.5





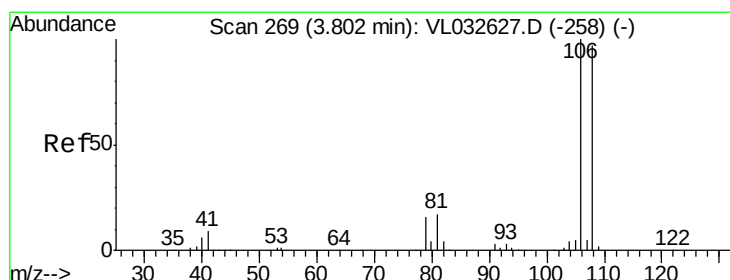
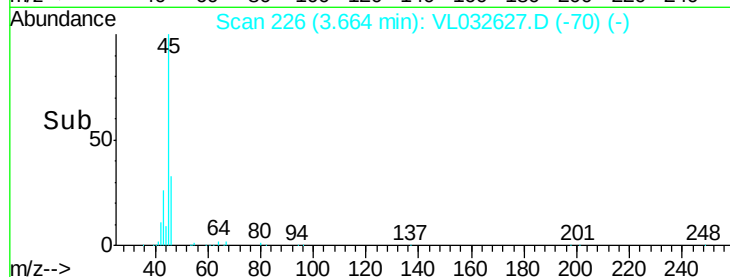
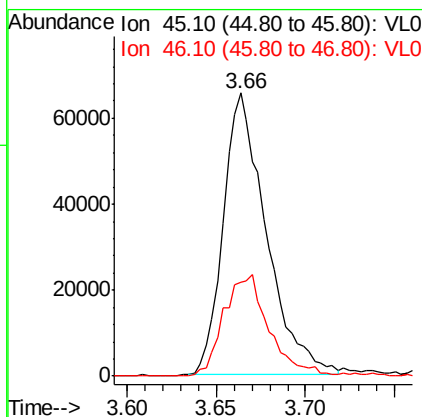
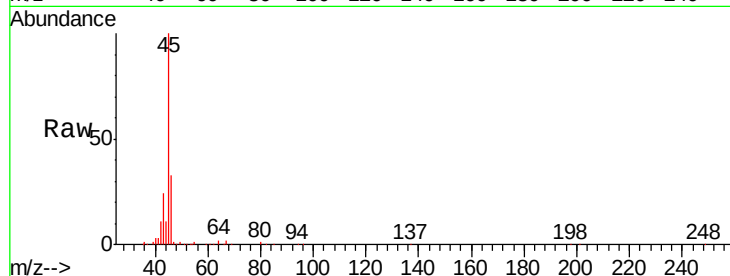
#13
Ethanol
Concen: 9.63 ppbv
RT: 3.66 min Scan# 226
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 45 Resp: 109921
Ion Ratio Lower Upper
45 100
46 38.7 15.4 61.8

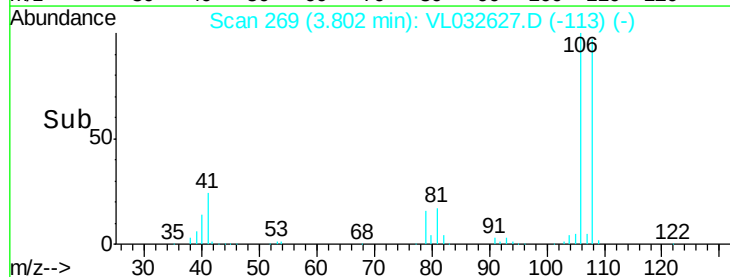
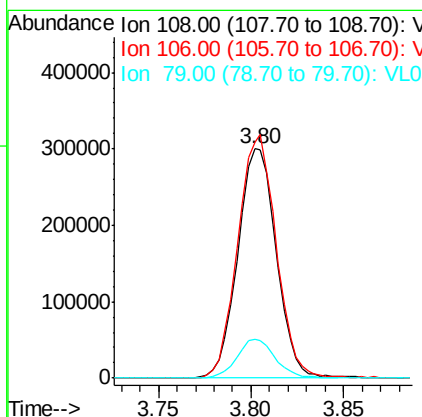
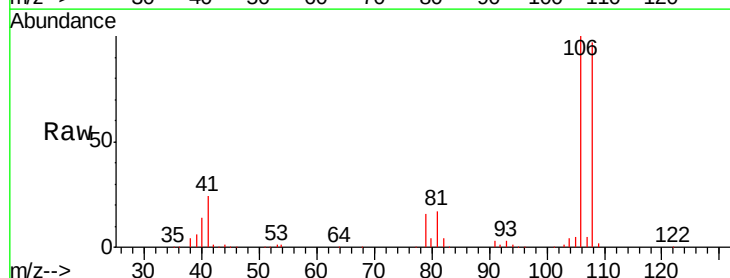
Manual Integrations
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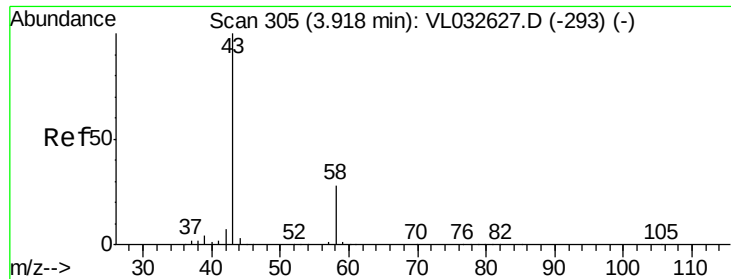
MMDadoda
10/19/2018 4:36:21 PM



#14
Bromoethene
Concen: 9.66 ppbv
RT: 3.80 min Scan# 269
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion: 108 Resp: 432959
Ion Ratio Lower Upper
108 100
106 106.2 85.0 127.4
79 17.1 13.7 20.5





#15

Acetone

Concen: 8.93 ppbv

RT: 3.92 min Scan# 305

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1026683

Ion Ratio Lower Upper

43 100

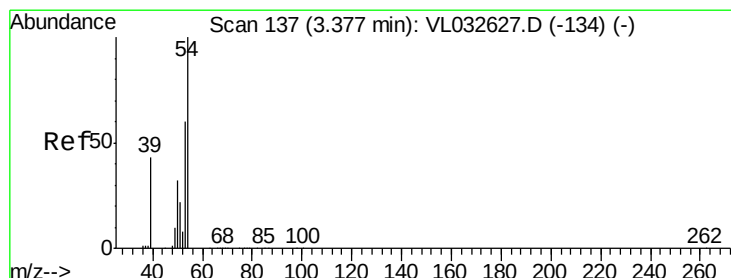
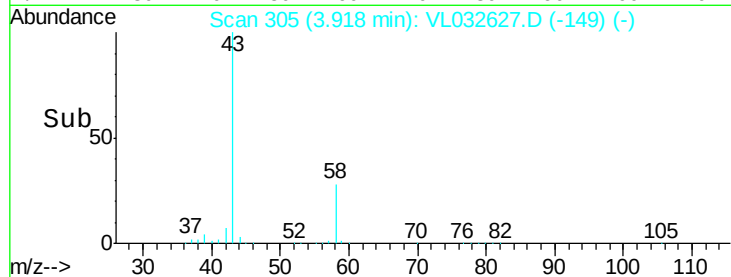
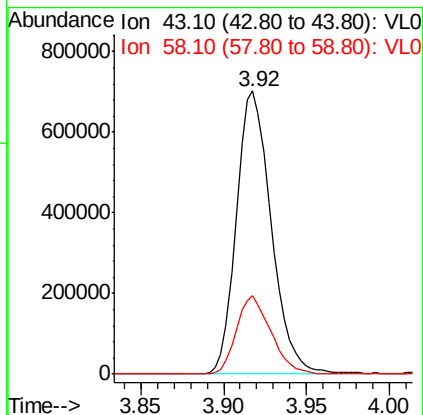
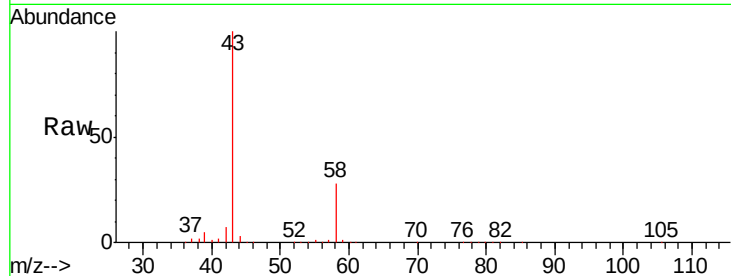
58 27.6 22.1 33.1

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#16

1,3-Butadiene

Concen: 8.94 ppbv

RT: 3.38 min Scan# 137

Delta R.T. 0.00 min

Lab File: VL032627.D

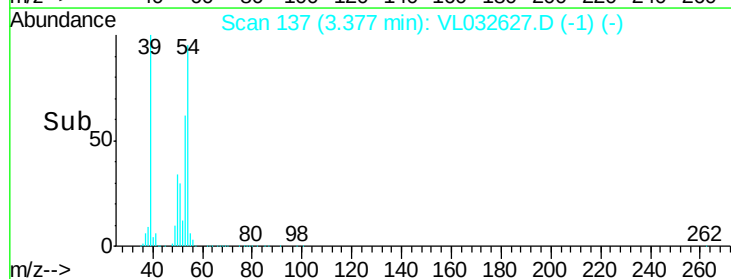
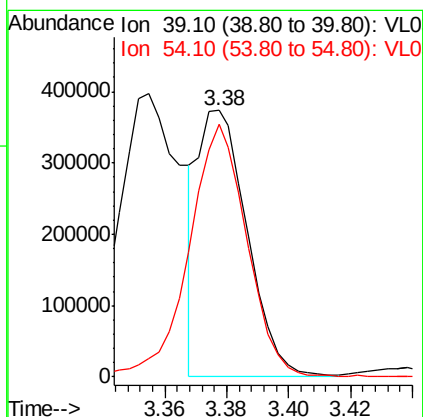
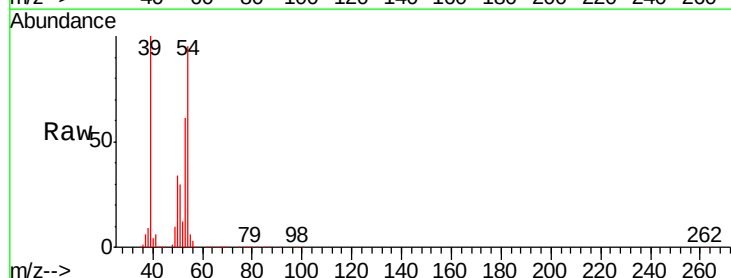
Acq: 17 Oct 2018 2:45

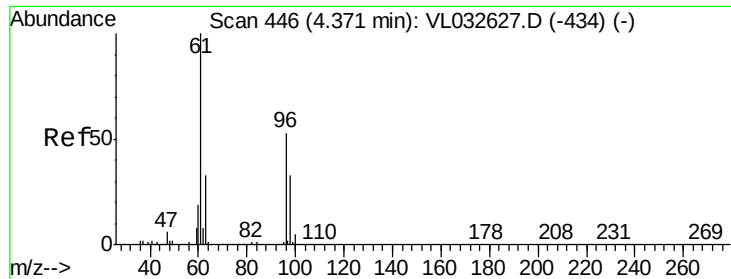
Tgt Ion: 39 Resp: 410342

Ion Ratio Lower Upper

39 100

54 113.0 90.4 135.6





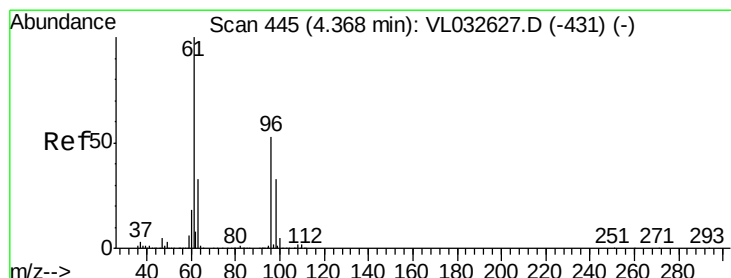
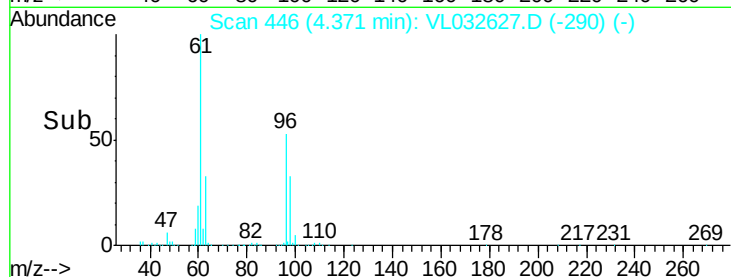
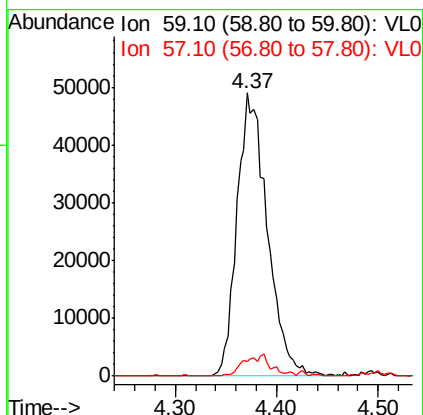
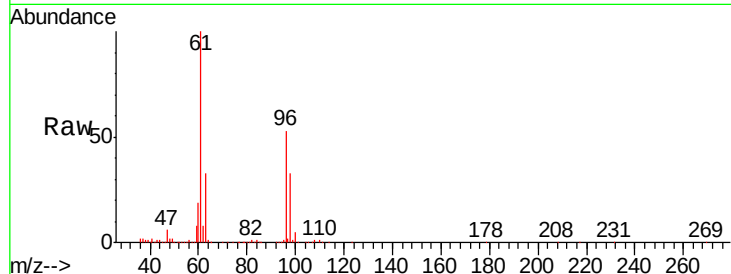
#17
 tert-Butyl alcohol
 Concen: 10.77 ppbv m
 RT: 4.37 min Scan# 446
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 59 Resp: 101185
 Ion Ratio Lower Upper
 59 100
 57 0.0 0.0 0.0

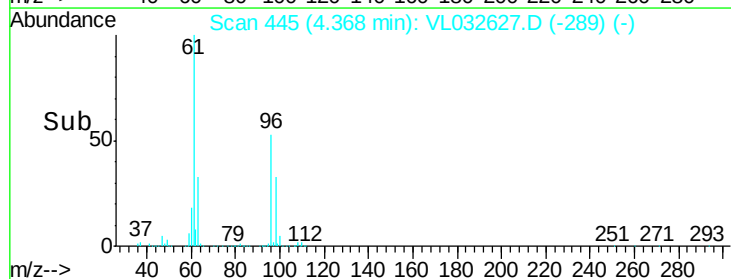
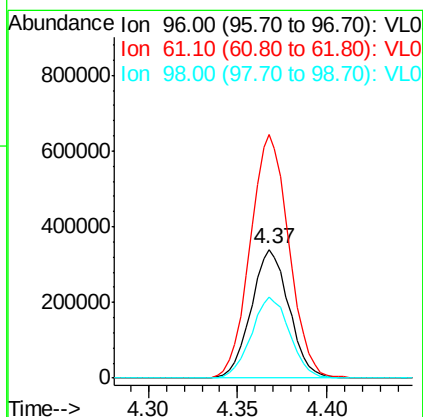
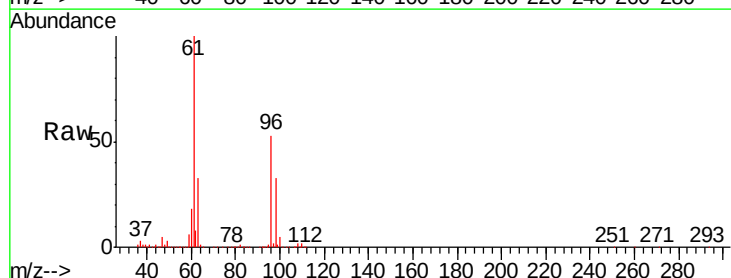
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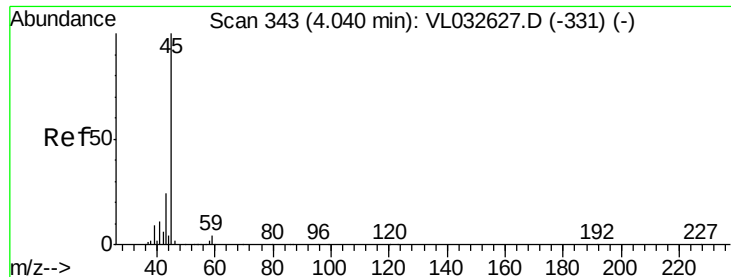
MMDadoda
 10/19/2018 4:36:21 PM



#18
 1,1-Dichloroethene
 Concen: 9.44 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Tgt Ion: 96 Resp: 504770
 Ion Ratio Lower Upper
 96 100
 61 189.5 151.6 227.4
 98 63.2 50.6 75.8





#19

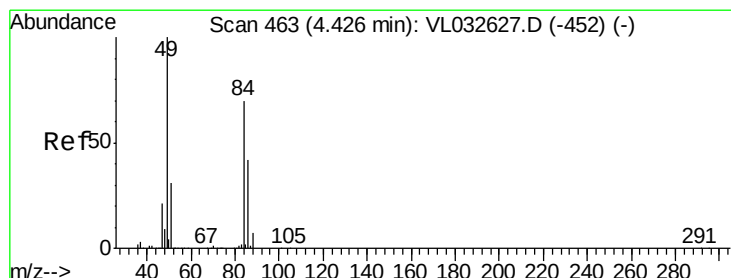
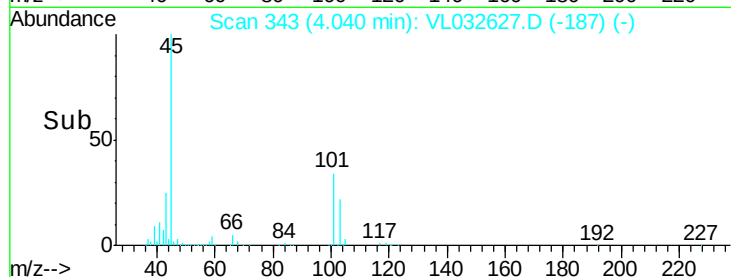
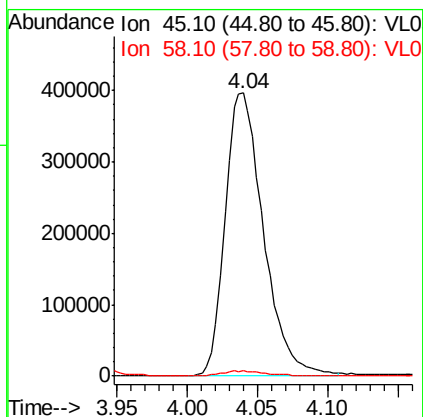
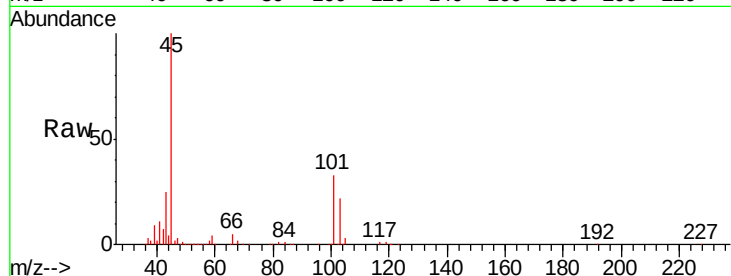
Isopropyl Alcohol
 Concen: 10.05 ppbv
 RT: 4.04 min Scan# 343
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
45	100		
58	2.5	2.0	3.0

Manual Integrations
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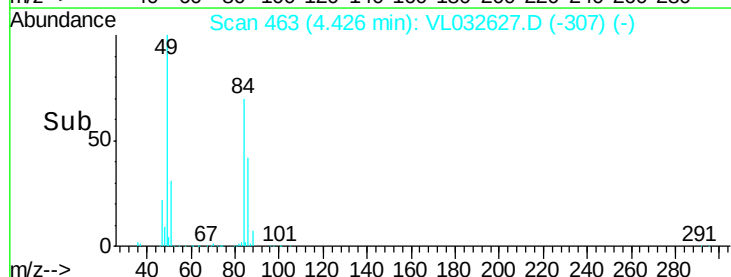
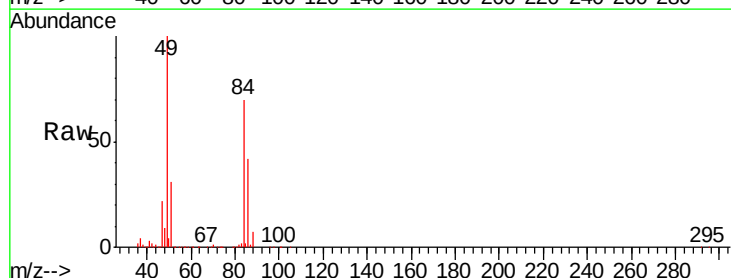
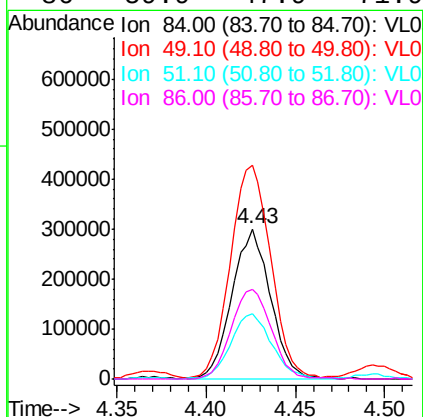
MMDadoda
 10/19/2018 4:36:21 PM

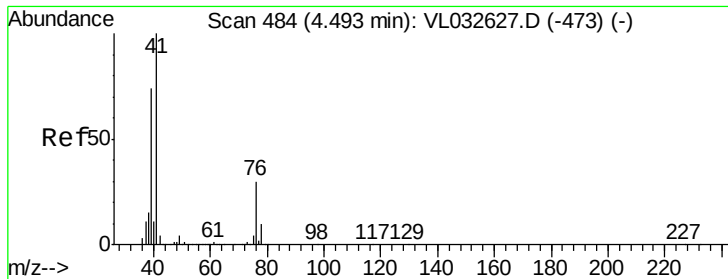


#20

Methylene Chloride
 Concen: 8.47 ppbv
 RT: 4.43 min Scan# 463
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Tgt Ion	Ratio	Lower	Upper
84	100		
49	141.9	113.5	170.3
51	43.5	34.8	52.2
86	59.9	47.9	71.9





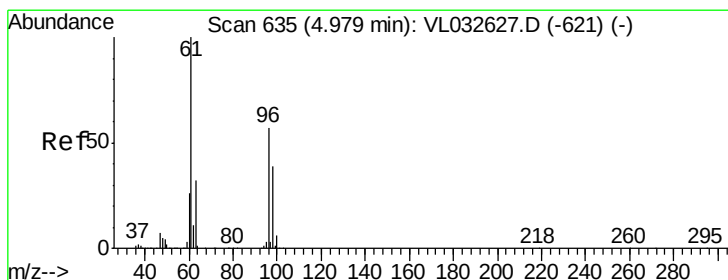
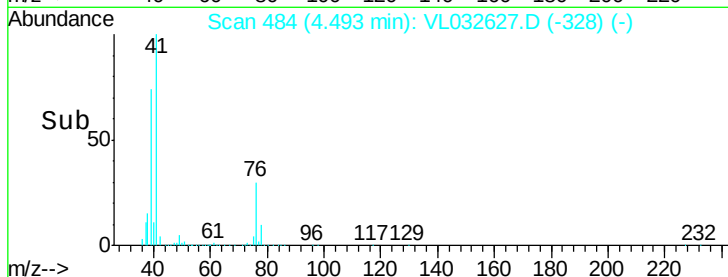
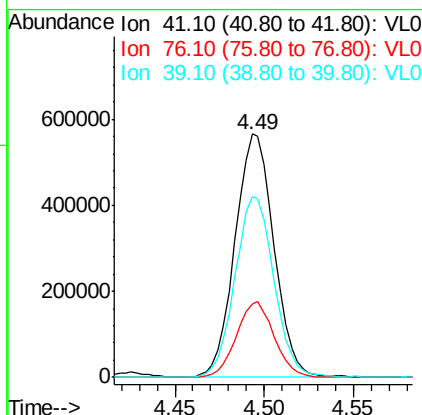
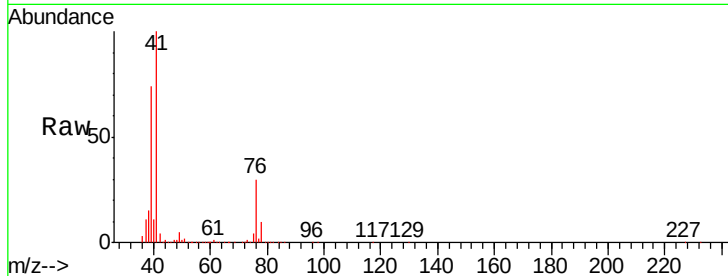
#21
 Allyl Chloride
 Concen: 9.79 ppbv
 RT: 4.49 min Scan# 484
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
41	100		
76	30.4	24.3	36.5
39	75.4	60.3	90.5

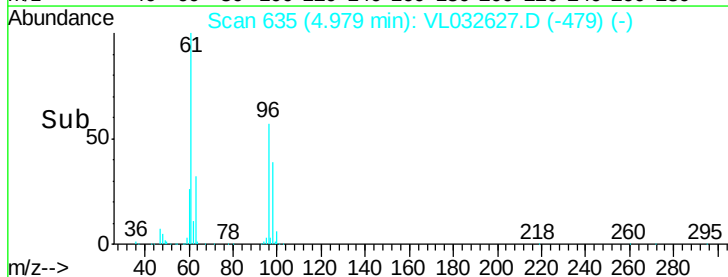
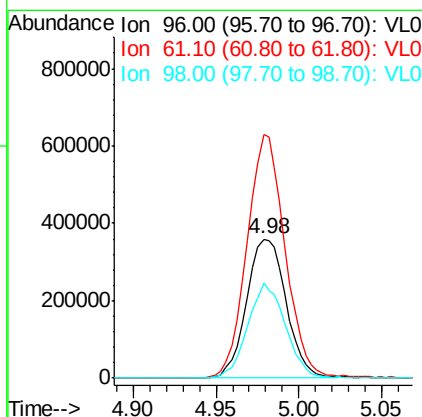
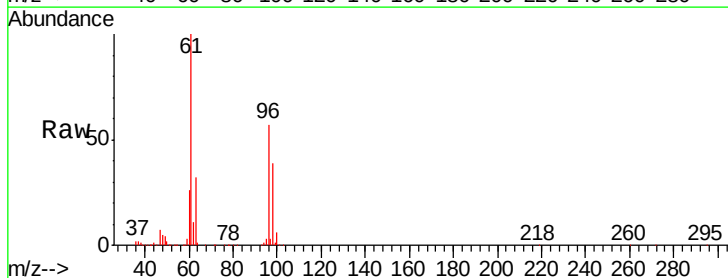
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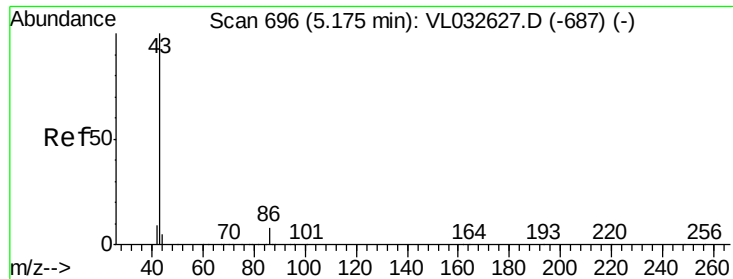
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#22
 trans-1,2-Dichloroethene
 Concen: 9.58 ppbv
 RT: 4.98 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	175.5	140.4	210.6
98	68.8	55.0	82.6





#23

Vinyl Acetate

Concen: 11.02 ppbv

RT: 5.17 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 1995549

Ion Ratio Lower Upper

43 100

86 7.6 6.1 9.1

42 9.3 7.4 11.2

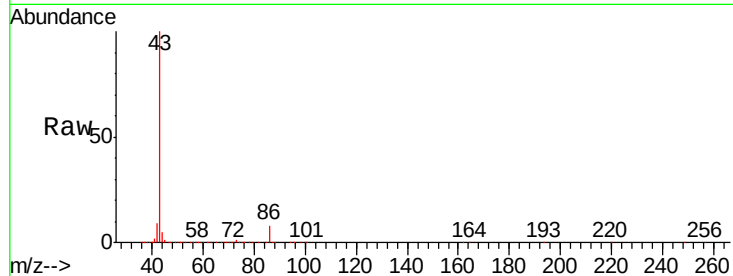
44 5.2 4.2 6.2

Manual Integrations

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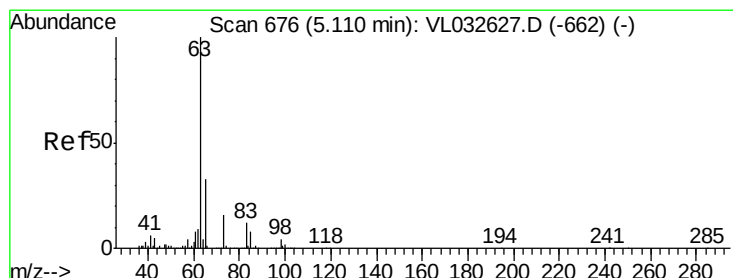
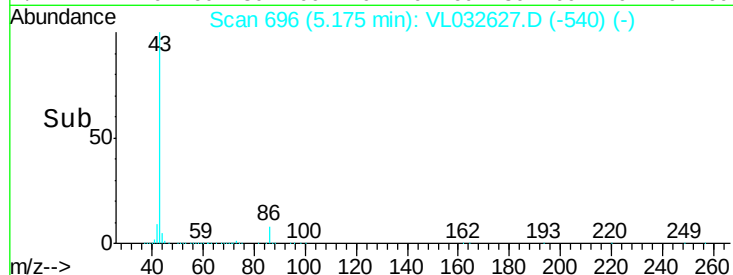
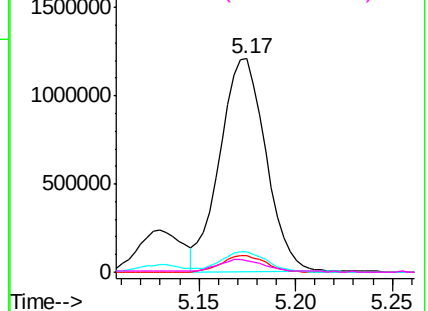


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.16 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

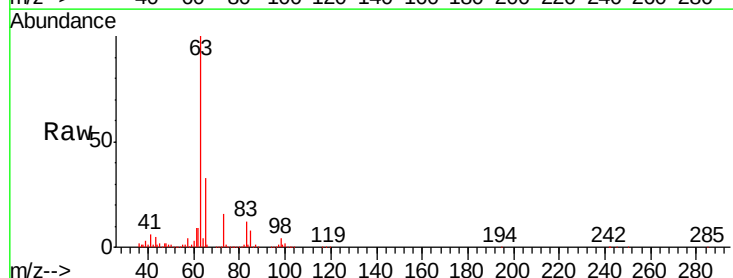
Tgt Ion: 63 Resp: 1626378

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.3

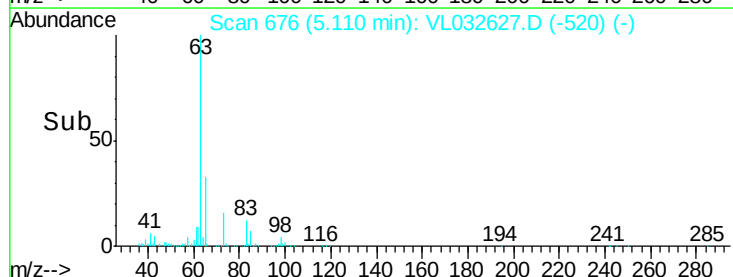
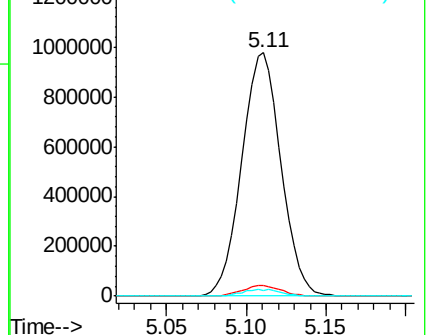
100 2.4 1.2 3.6

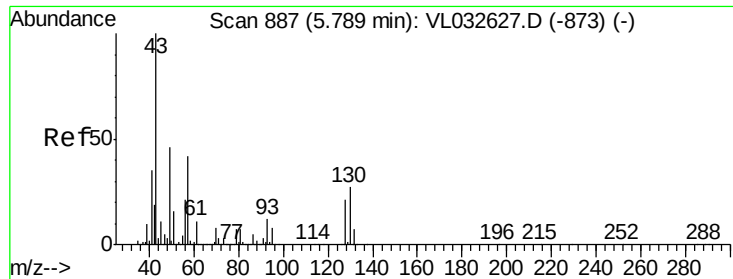


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





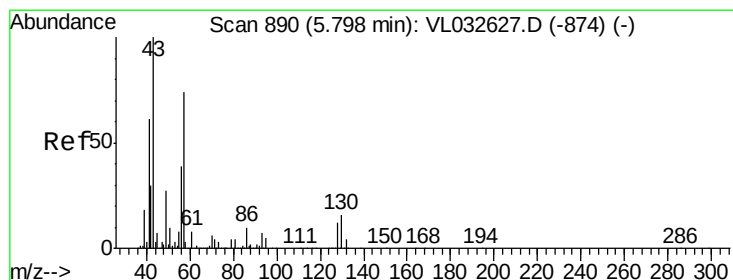
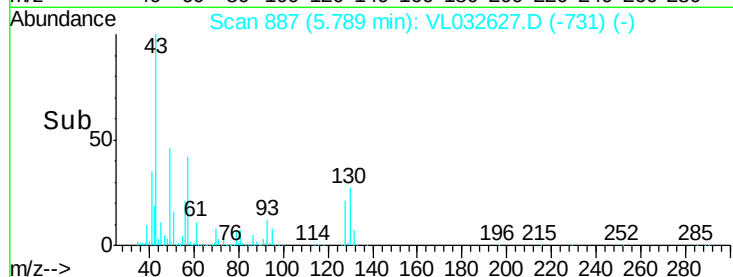
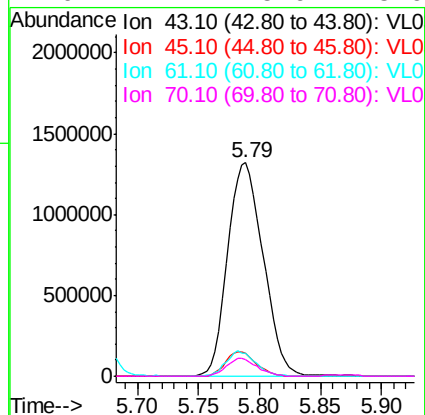
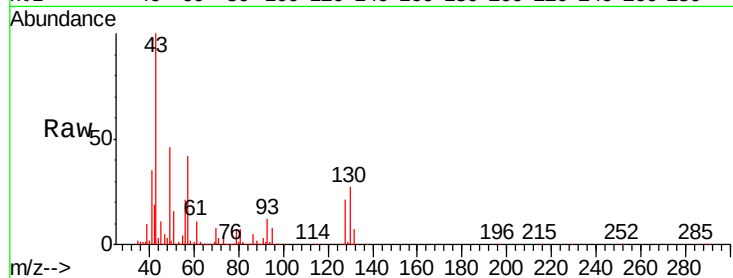
#25
Ethyl Acetate
Concen: 10.05 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.0	12.0
61	10.0	8.0	12.0
70	7.4	5.9	8.9

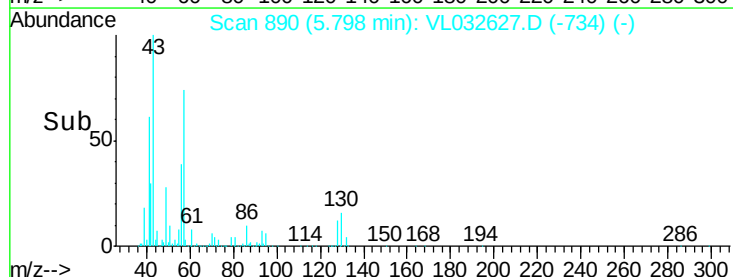
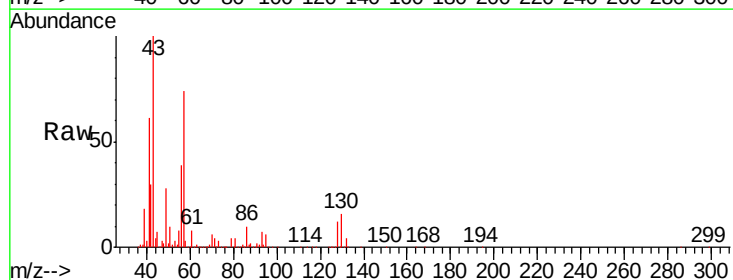
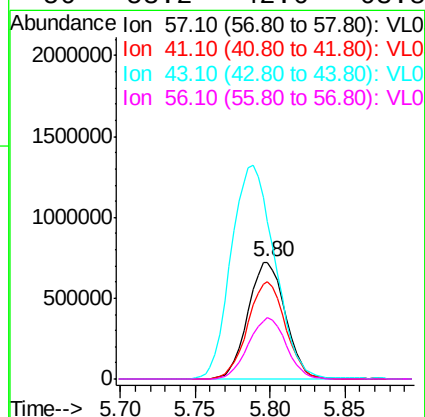
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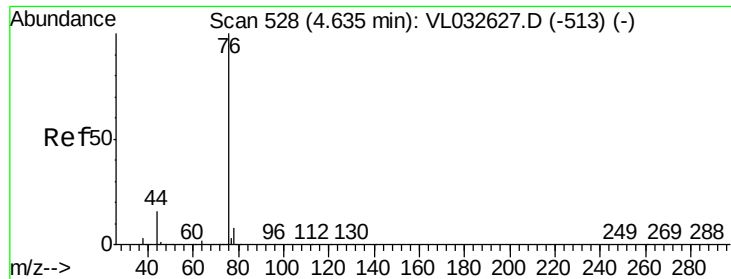
MMDadoda
10/19/2018 4:36:21 PM



#26
Hexane
Concen: 10.29 ppbv
RT: 5.80 min Scan# 890
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	84.2	67.4	101.0
43	214.9	171.9	257.9
56	53.2	42.6	63.8





#27

Carbon Disulfide

Concen: 9.53 ppbv

RT: 4.63 min Scan# 528

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 76 Resp: 1390464

Ion Ratio Lower Upper

76 100

44 17.1 13.7 20.5

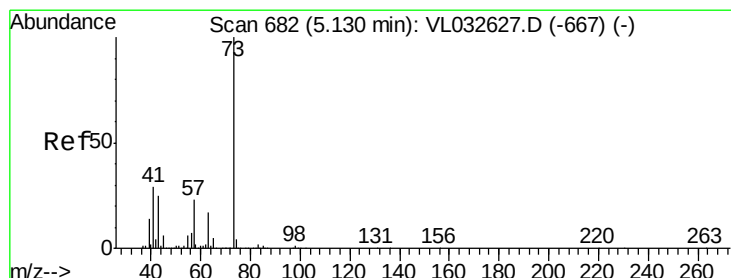
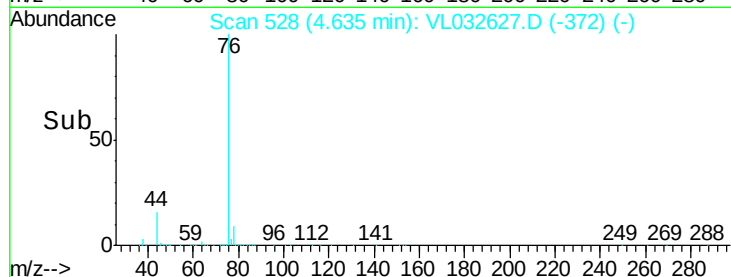
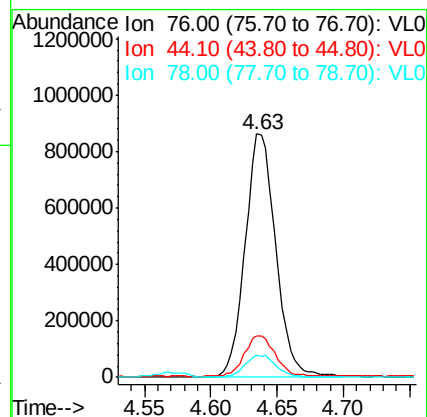
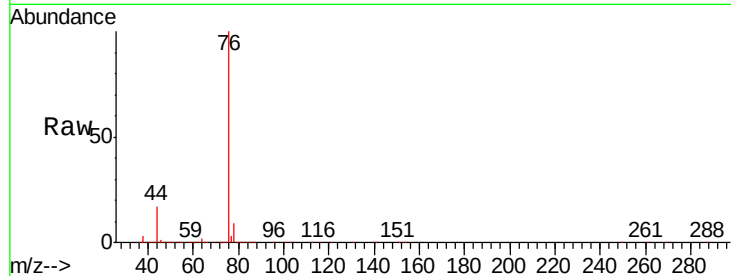
78 9.2 7.4 11.2

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 11.47 ppbv

RT: 5.13 min Scan# 682

Delta R.T. 0.00 min

Lab File: VL032627.D

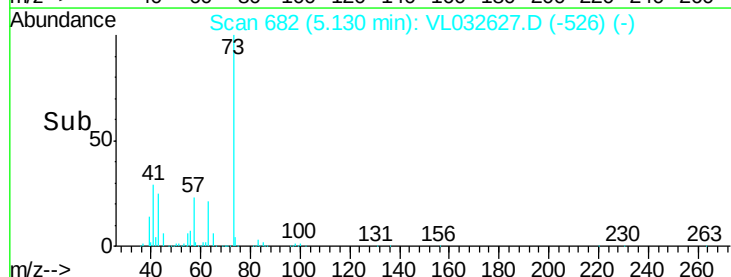
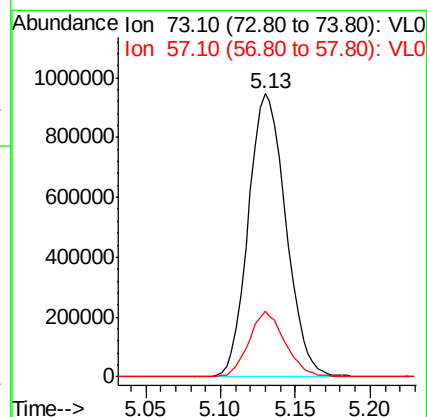
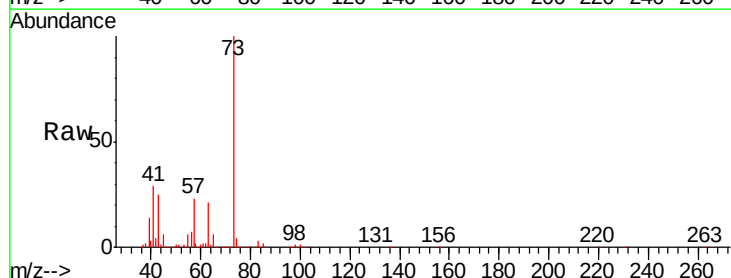
Acq: 17 Oct 2018 2:45

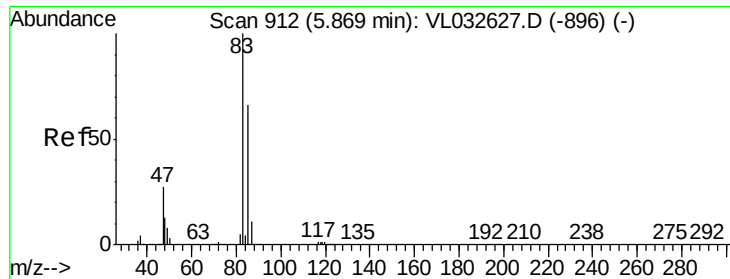
Tgt Ion: 73 Resp: 1653635

Ion Ratio Lower Upper

73 100

57 22.5 18.0 27.0





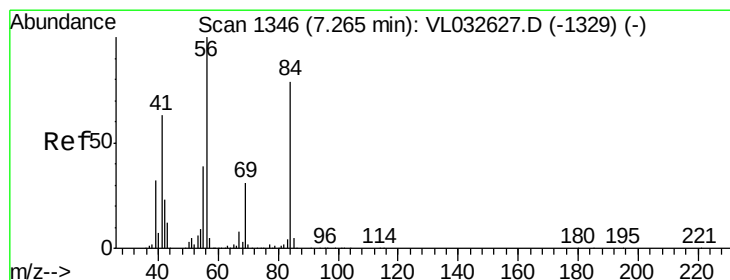
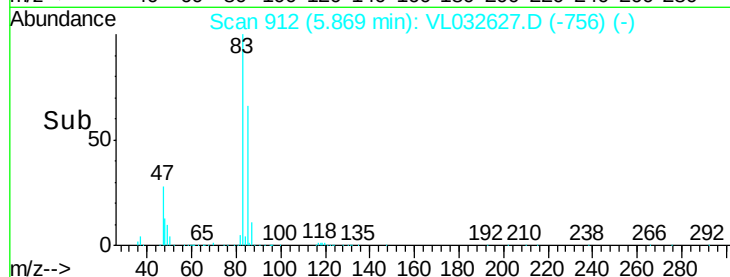
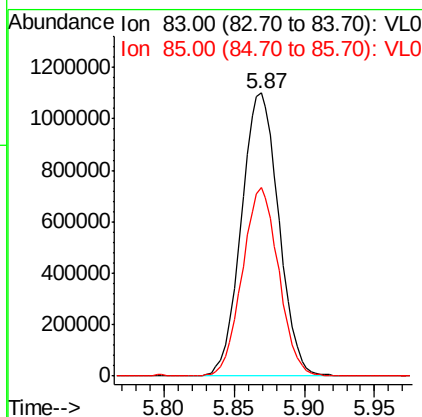
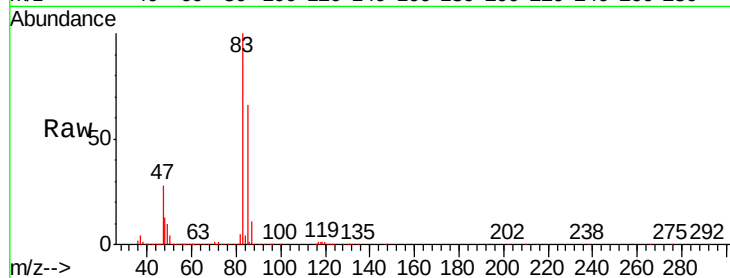
#29
Chloroform
Concen: 9.79 ppbv
RT: 5.87 min Scan# 912
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 83 Resp: 2042836
Ion Ratio Lower Upper
83 100
85 66.3 53.0 79.6

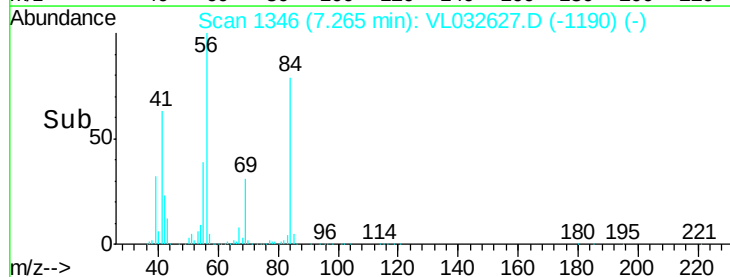
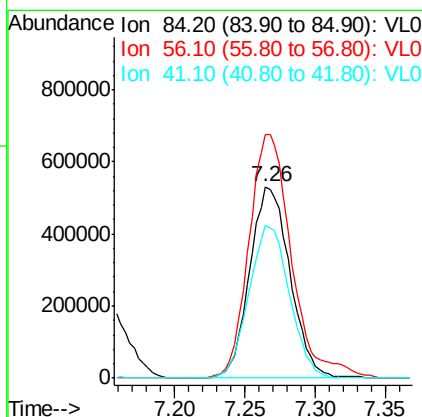
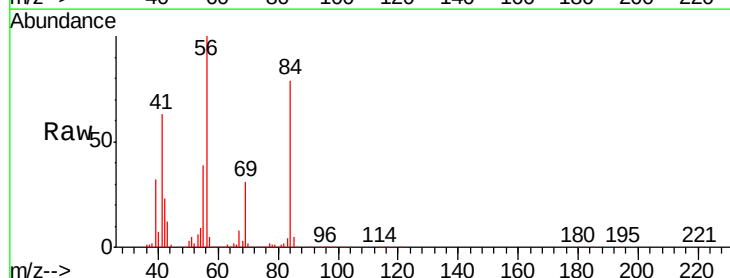
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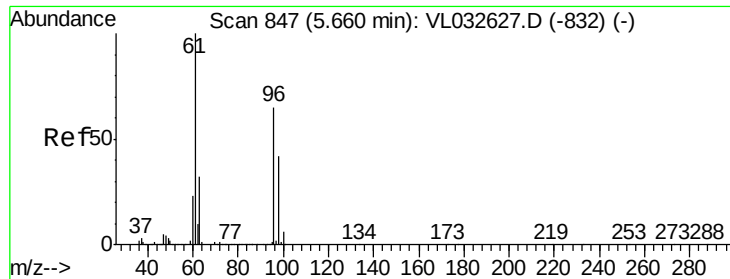
MMDadoda
10/19/2018 4:36:21 PM



#30
Cyclohexane
Concen: 11.01 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion: 84 Resp: 1055475
Ion Ratio Lower Upper
84 100
56 135.4 108.3 162.5
41 81.0 64.8 97.2





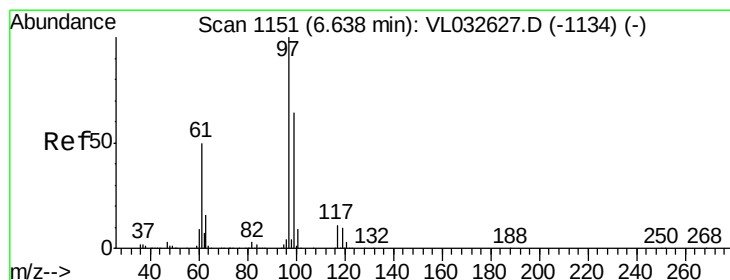
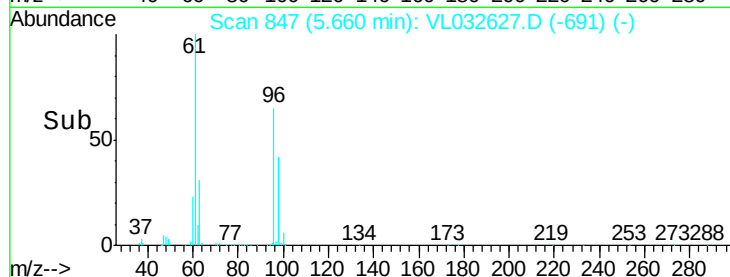
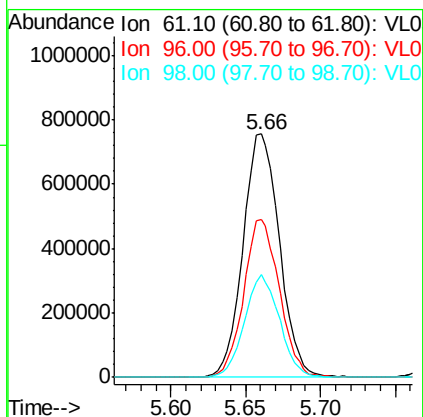
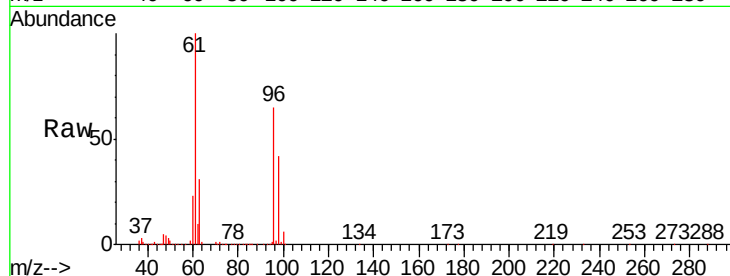
#31
 cis-1,2-Dichloroethene
 Concen: 11.08 ppbv
 RT: 5.66 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 61 Resp: 1282923
 Ion Ratio Lower Upper
 61 100
 96 64.7 51.8 77.6
 98 42.2 33.8 50.6

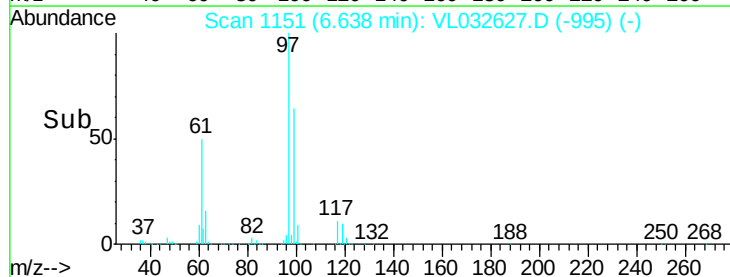
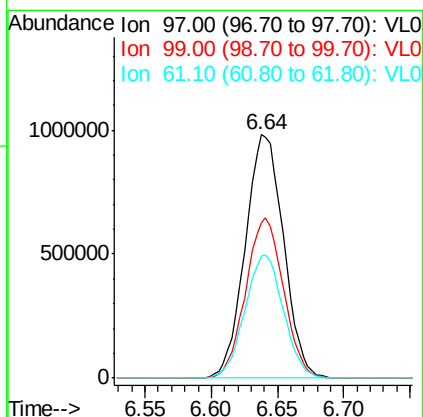
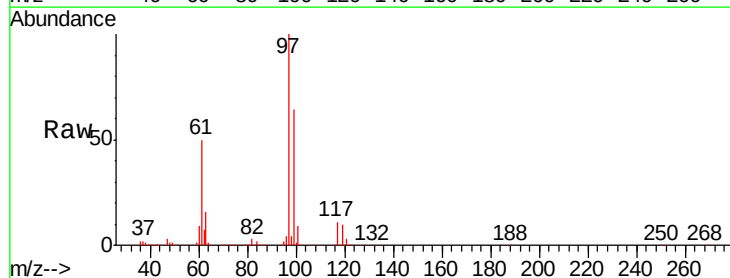
Manual Integrations
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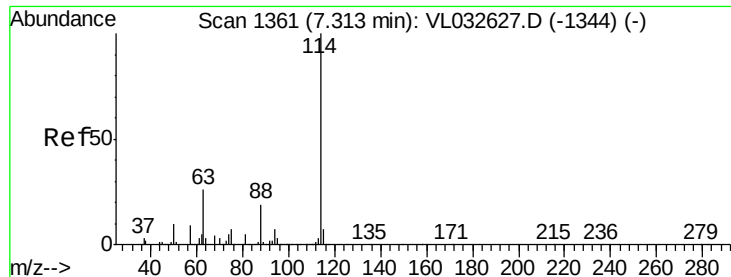
MMDadoda
 10/19/2018 4:36:21 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.81 ppbv
 RT: 6.64 min Scan# 1151
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Tgt Ion: 97 Resp: 1977298
 Ion Ratio Lower Upper
 97 100
 99 65.0 52.0 78.0
 61 50.9 40.7 61.1





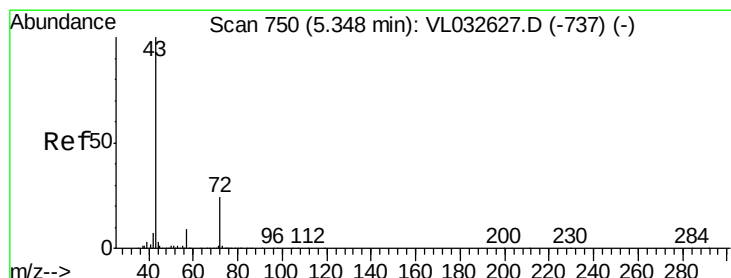
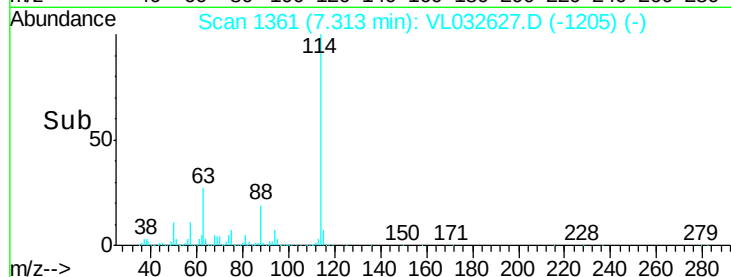
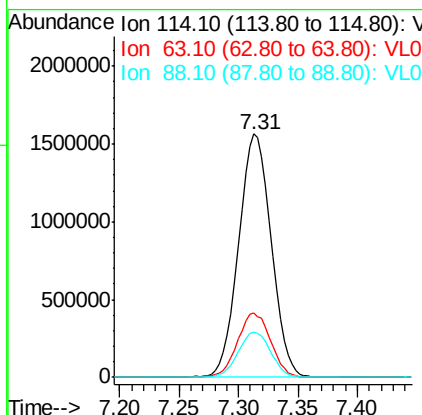
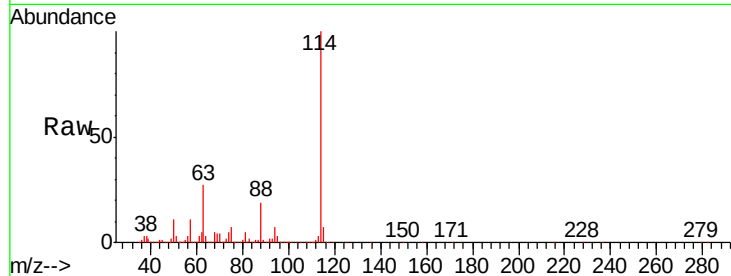
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.31 min Scan# 1361
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 114 Resp: 2973421
 Ion Ratio Lower Upper
 114 100
 63 27.1 21.7 32.5
 88 18.6 14.9 22.3

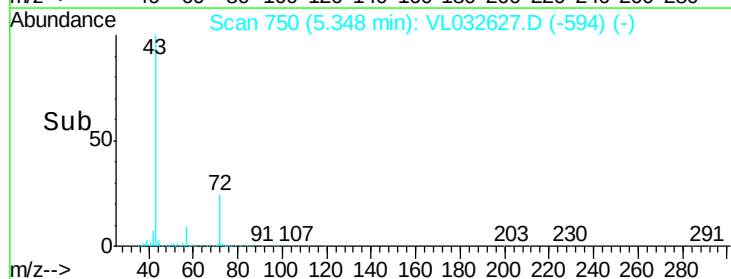
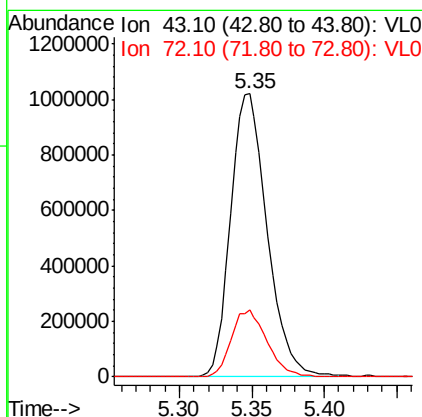
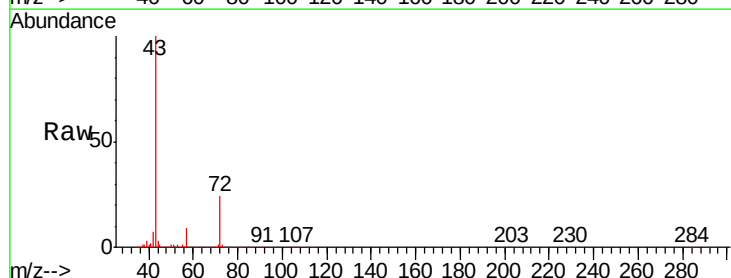
Manual Integrations
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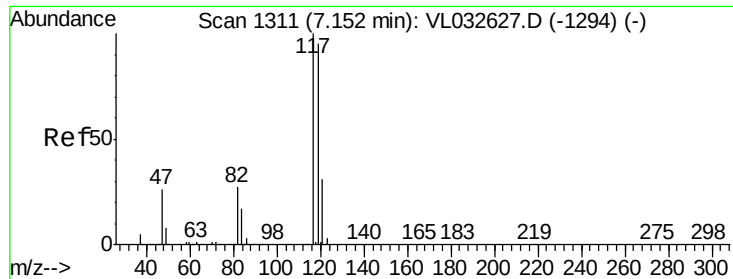
MMDadoda
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#34
 2-Butanone
 Concen: 11.58 ppbv
 RT: 5.35 min Scan# 750
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Tgt Ion: 43 Resp: 1775651
 Ion Ratio Lower Upper
 43 100
 72 23.4 18.6 27.8





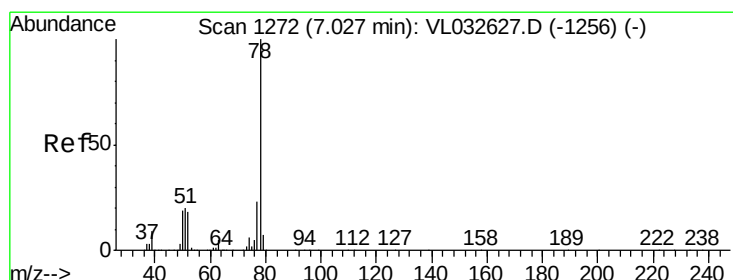
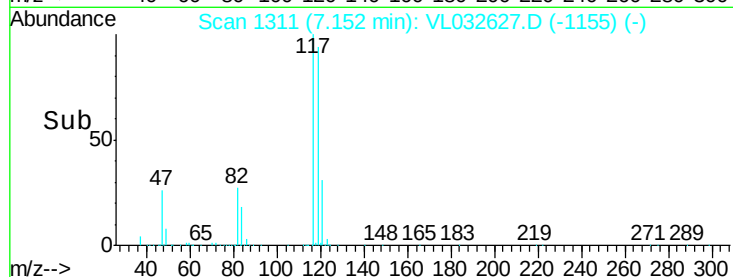
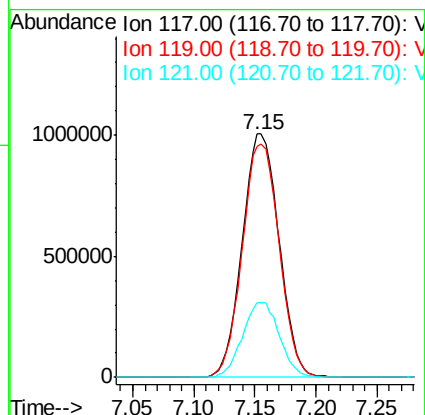
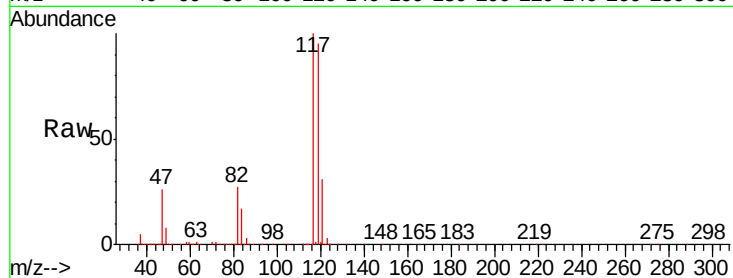
#35
Carbon Tetrachloride
Concen: 9.78 ppbv
RT: 7.15 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 117 Resp: 2089619
Ion Ratio Lower Upper
117 100
119 94.6 75.7 113.5
121 30.9 24.7 37.1

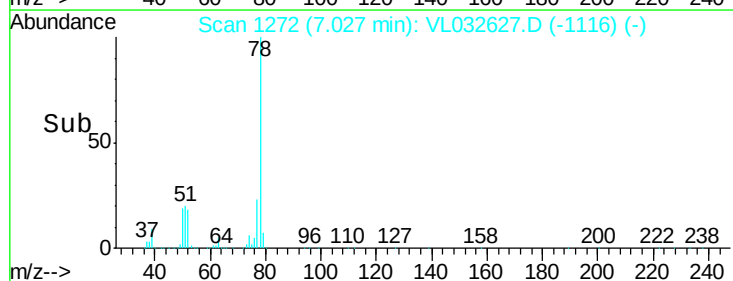
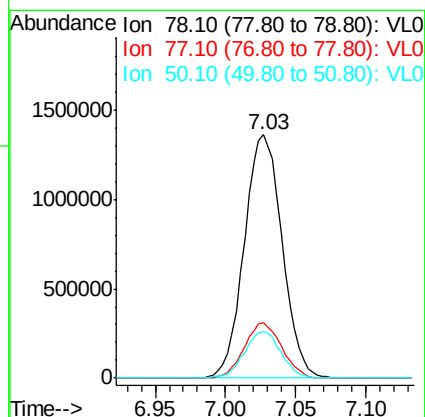
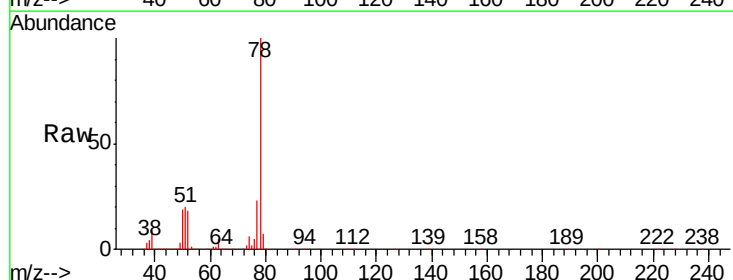
Manual Integrations
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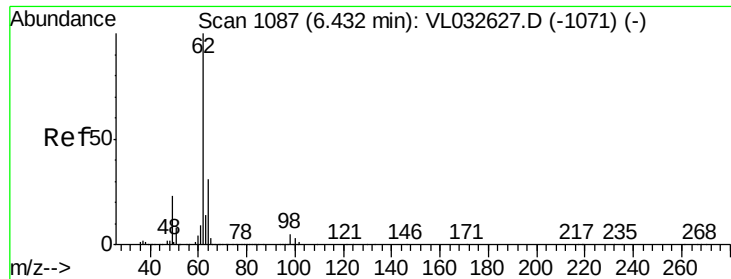
MMDadoda
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#36
Benzene
Concen: 10.91 ppbv
RT: 7.03 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion: 78 Resp: 2567667
Ion Ratio Lower Upper
78 100
77 22.6 18.1 27.1
50 18.9 15.1 22.7





#37

1,2-Dichloroethane

Concen: 10.26 ppbv

RT: 6.43 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 1607473

Ion Ratio Lower Upper

62 100

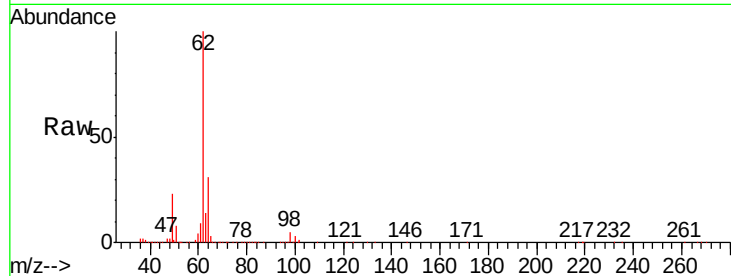
98 5.5 4.4 6.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.43

800000

600000

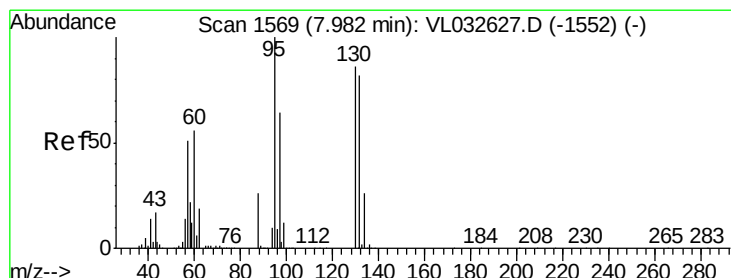
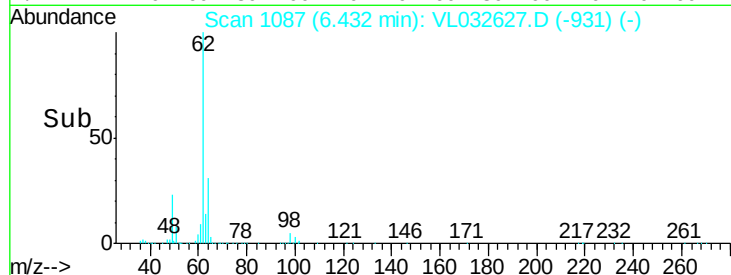
400000

200000

0

6.35 6.40 6.45 6.50

Time-->



#38

Trichloroethene

Concen: 10.97 ppbv

RT: 7.98 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Tgt Ion: 130 Resp: 949938

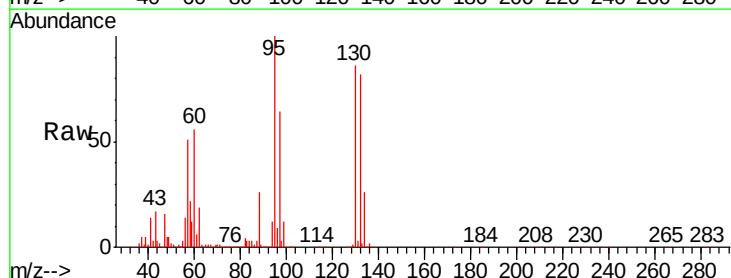
Ion Ratio Lower Upper

130 100

95 116.7 93.4 140.0

132 95.6 76.5 114.7

97 75.2 60.2 90.2



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

600000

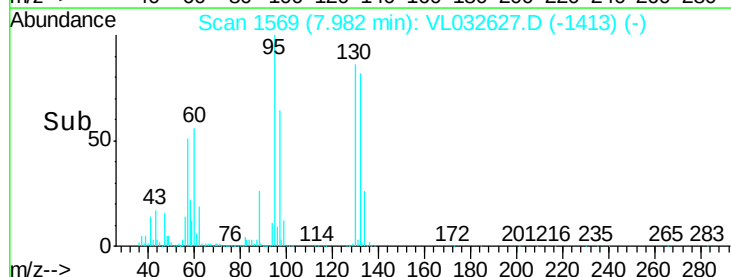
400000

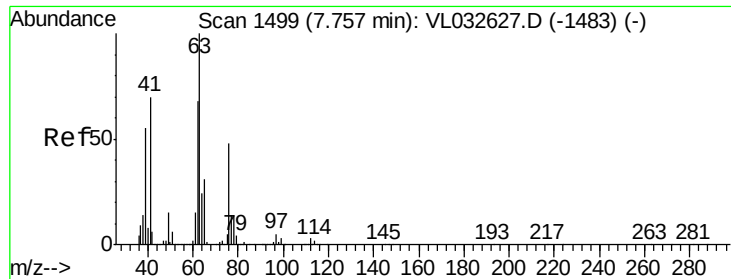
200000

0

7.90 7.95 8.00 8.05

Time-->





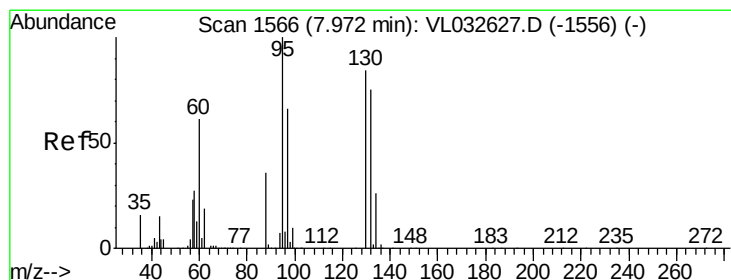
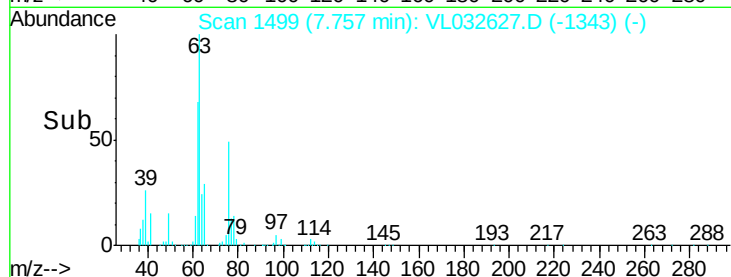
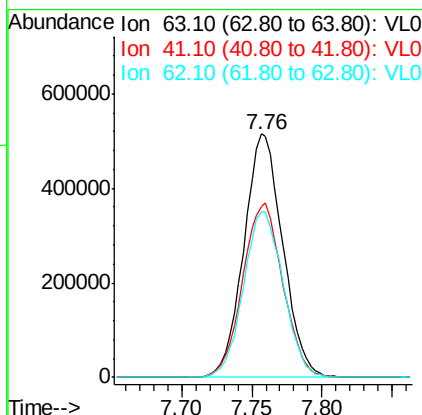
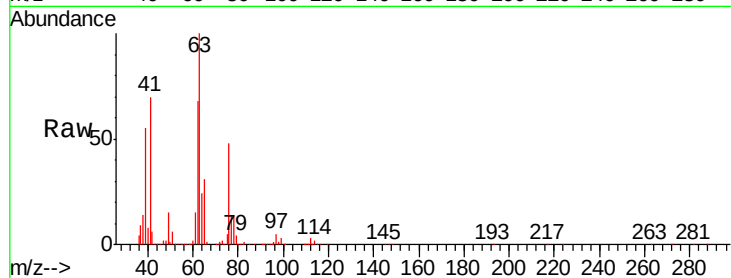
#39
 1,2-Dichloropropane
 Concen: 10.34 ppbv
 RT: 7.76 min Scan# 1499
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
63	100		
41	70.3	56.2	84.4
62	68.0	54.4	81.6

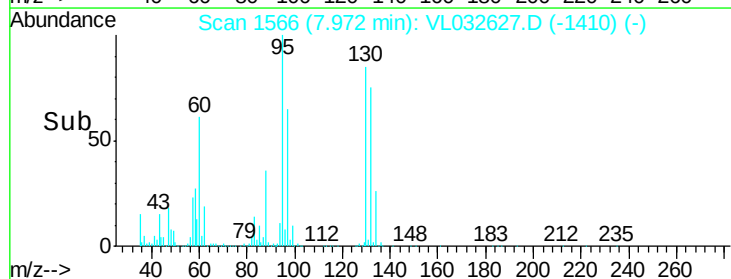
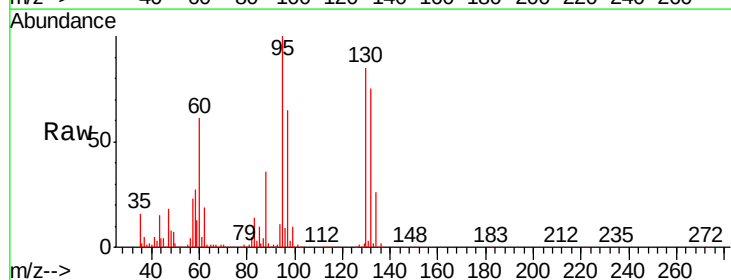
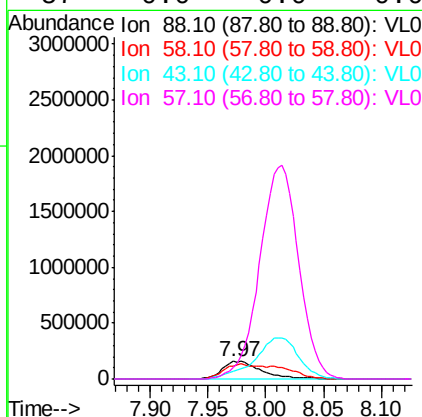
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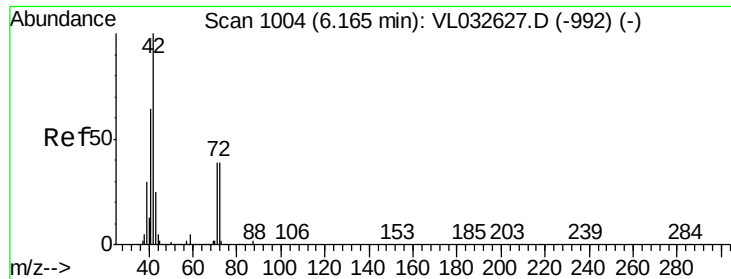
MMDadoda
 10/19/2018 4:36:21 PM



#40
 1,4-Dioxane
 Concen: 11.90 ppbv m
 RT: 7.97 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VL032627.D
 Acq: 17 Oct 2018 2:45

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	104.0	156.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





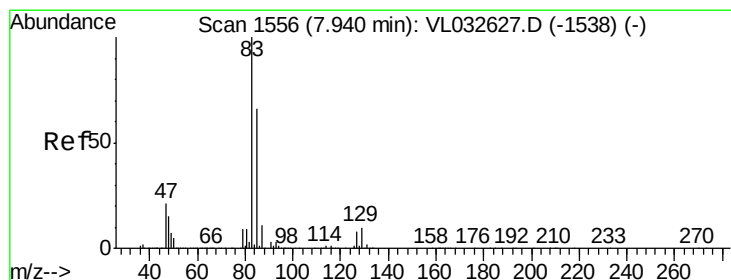
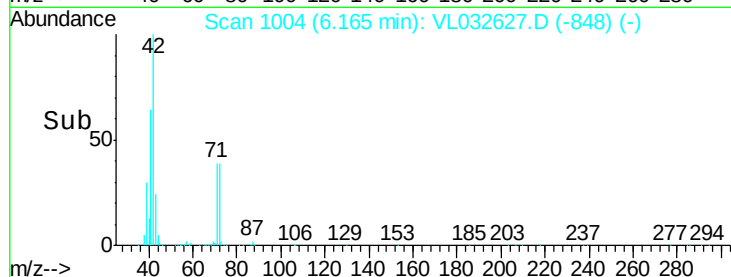
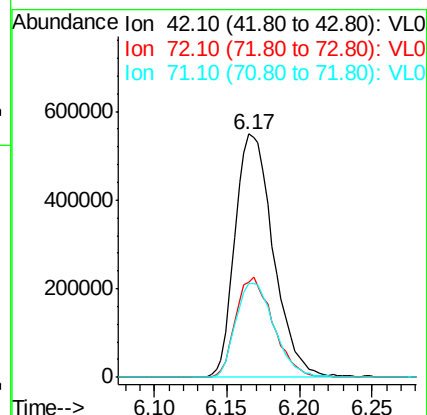
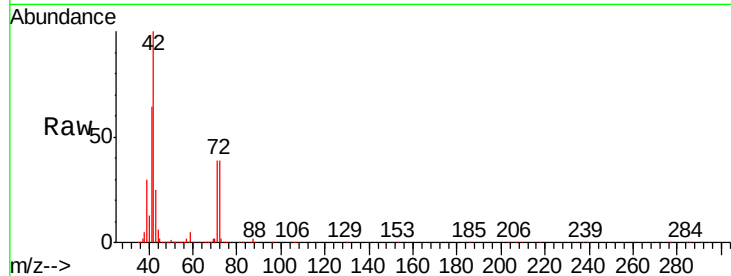
#41
Tetrahydrofuran
Concen: 11.78 ppbv
RT: 6.17 min Scan# 1004
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
42	100		
72	40.5	32.4	48.6
71	39.1	31.3	46.9

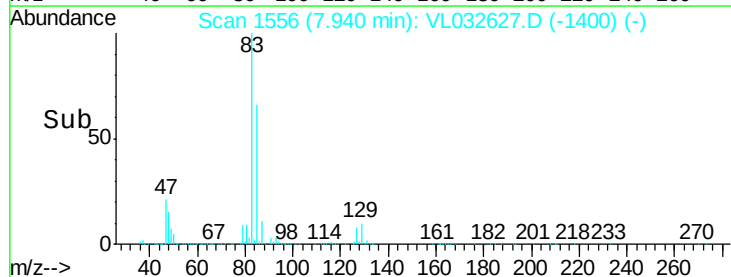
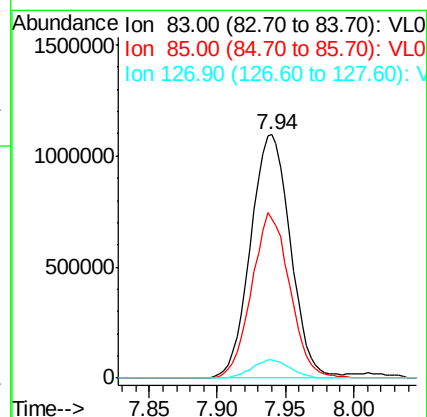
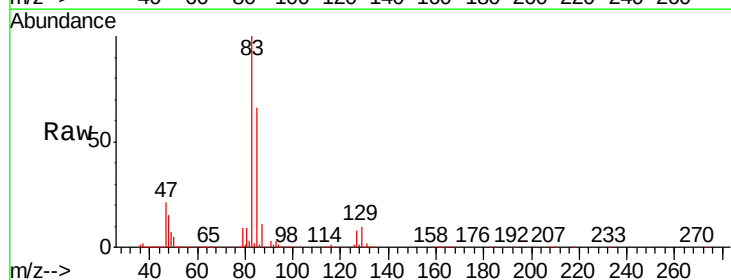
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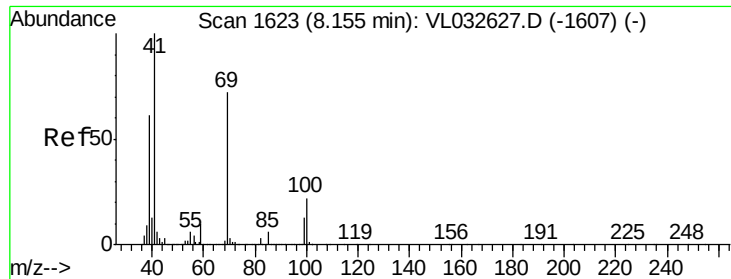
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#42
Bromodichloromethane
Concen: 10.12 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.4	78.6
127	7.6	6.1	9.1





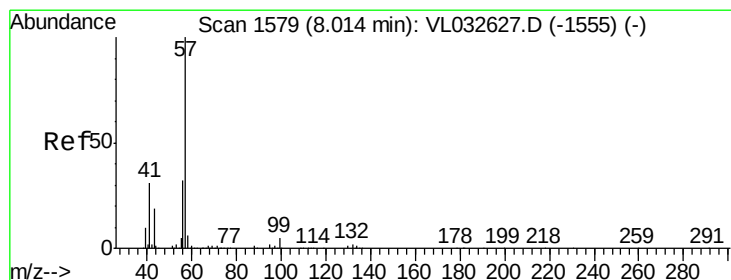
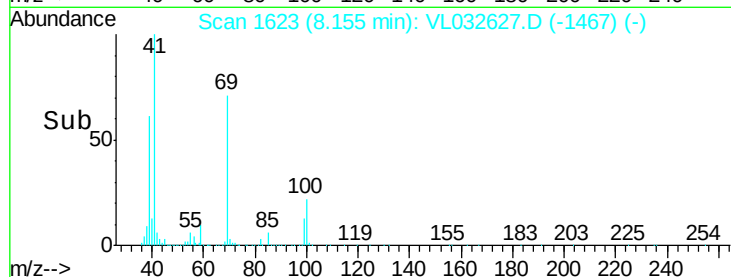
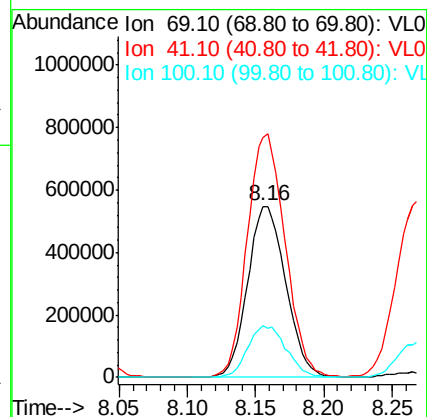
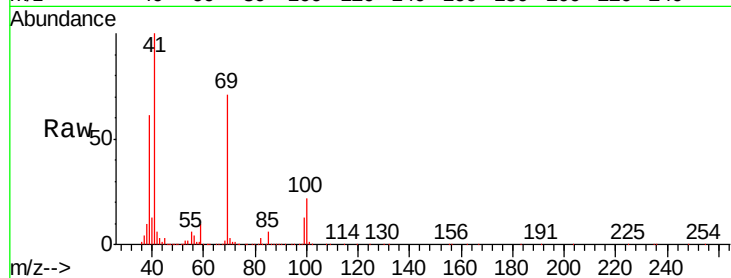
#43
Methyl Methacrylate
Concen: 11.64 ppbv
RT: 8.16 min Scan# 1623
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 69 Resp: 1063905
Ion Ratio Lower Upper
69 100
41 141.5 113.2 169.8
100 30.5 24.4 36.6

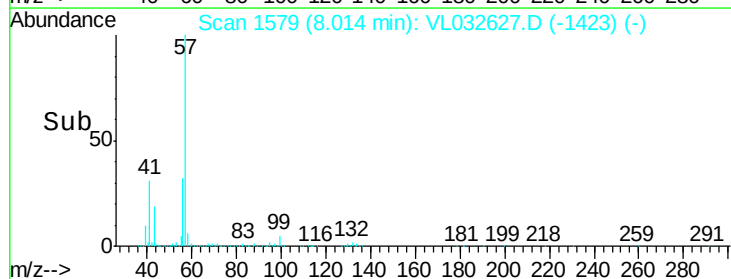
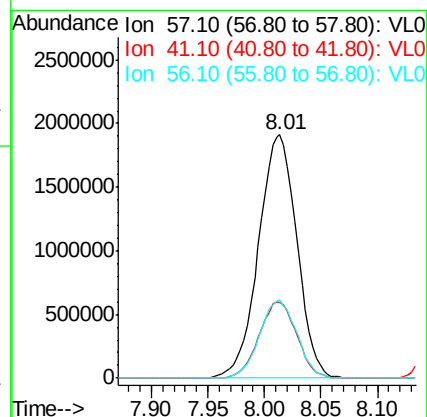
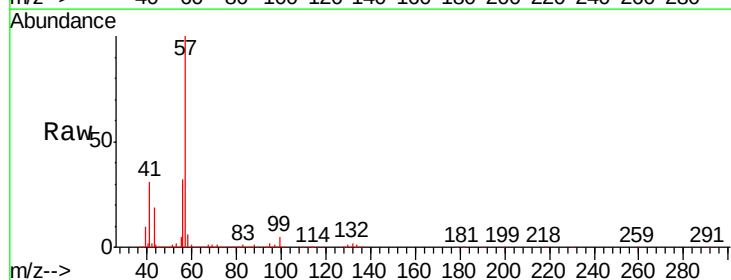
Manual Integrations
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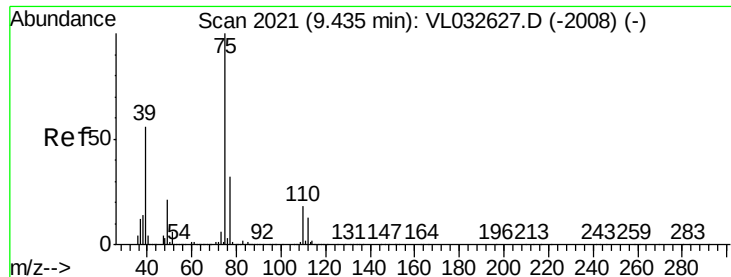
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 10.72 ppbv
RT: 8.01 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion: 57 Resp: 4491276
Ion Ratio Lower Upper
57 100
41 30.9 24.7 37.1
56 31.2 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 12.93 ppbv

RT: 9.43 min Scan# 2021

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 1488697

Ion Ratio Lower Upper

75 100

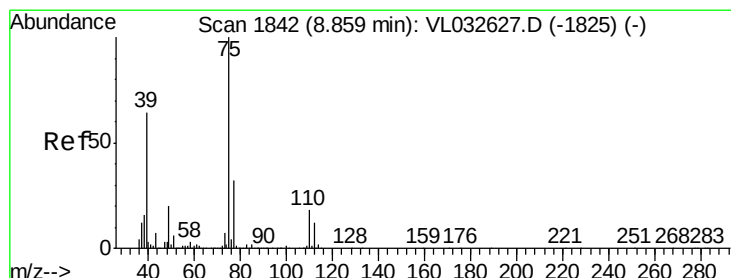
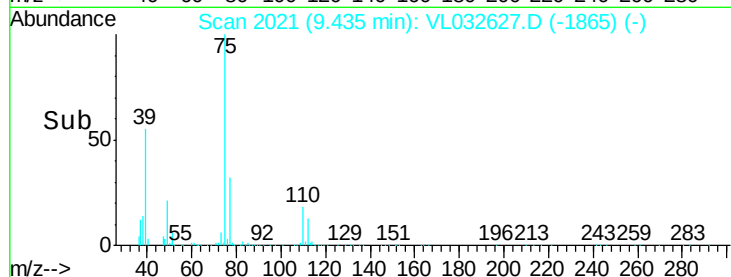
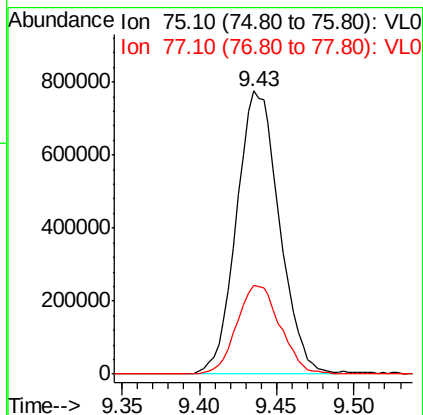
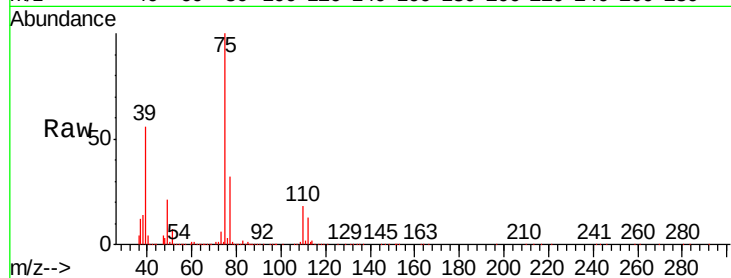
77 31.6 25.3 37.9

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 12.68 ppbv

RT: 8.86 min Scan# 1842

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

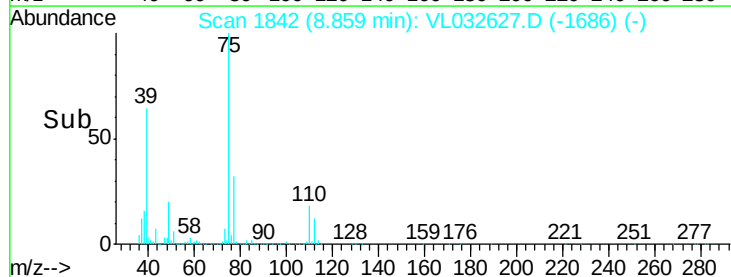
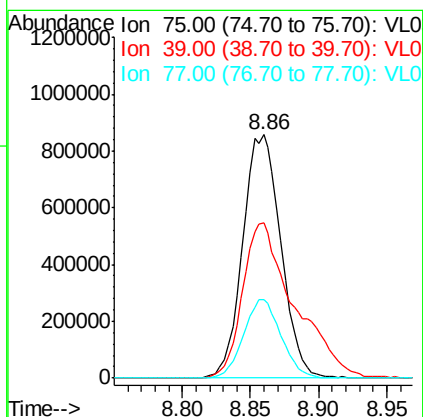
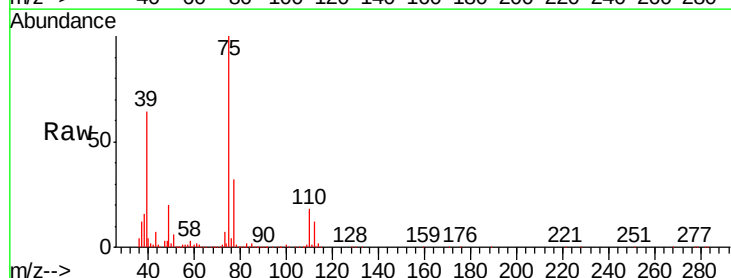
Tgt Ion: 75 Resp: 1661988

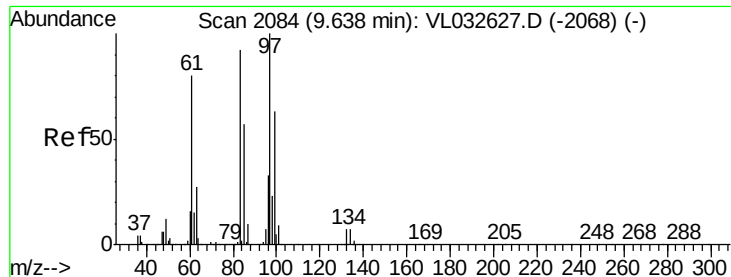
Ion Ratio Lower Upper

75 100

39 63.6 50.9 76.3

77 32.2 25.8 38.6





#47

1,1,2-Trichloroethane

Concen: 10.11 ppbv

RT: 9.64 min Scan# 2084

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 1154074

Ion Ratio Lower Upper

97 100

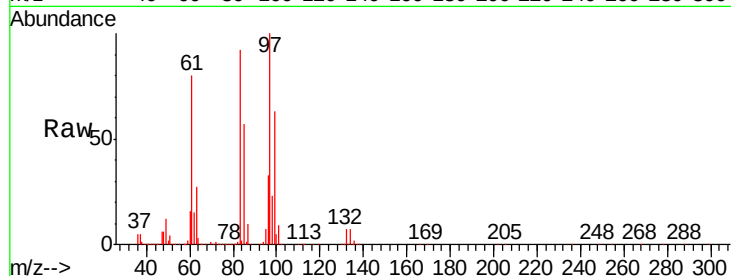
83 91.9 73.5 110.3

85 57.2 45.8 68.6

99 63.2 50.6 75.8

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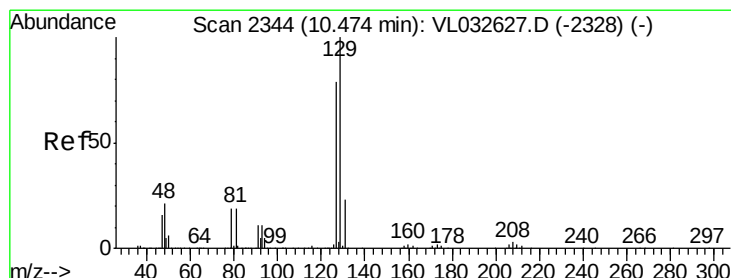
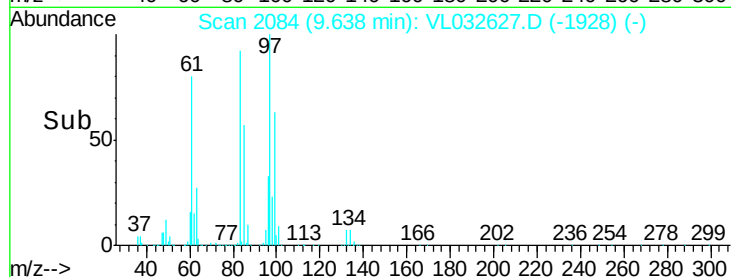
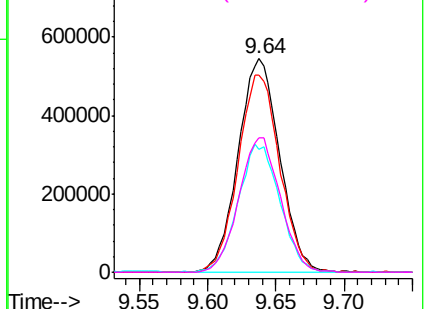
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.65 ppbv

RT: 10.47 min Scan# 2344

Delta R.T. 0.00 min

Lab File: VL032627.D

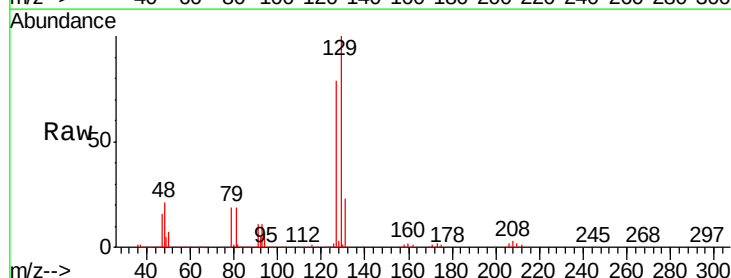
Acq: 17 Oct 2018 2:45

Tgt Ion: 129 Resp: 2021874

Ion Ratio Lower Upper

129 100

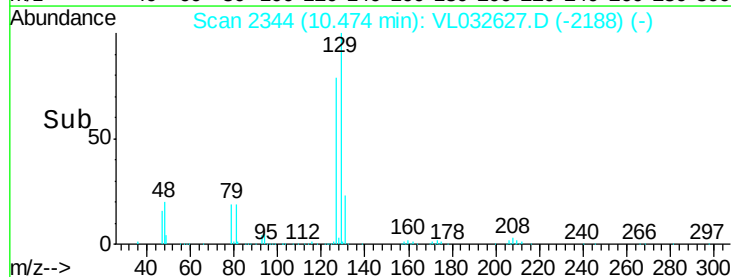
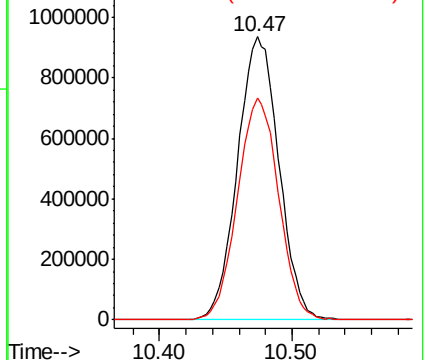
127 78.5 39.1 117.5

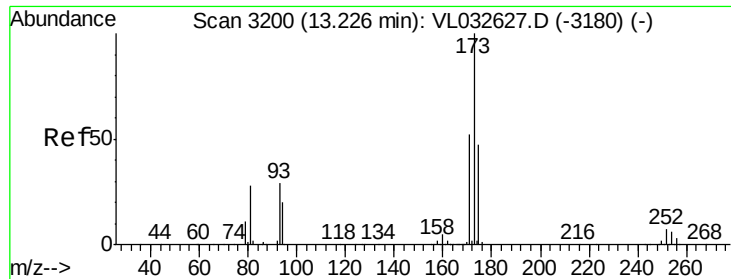


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





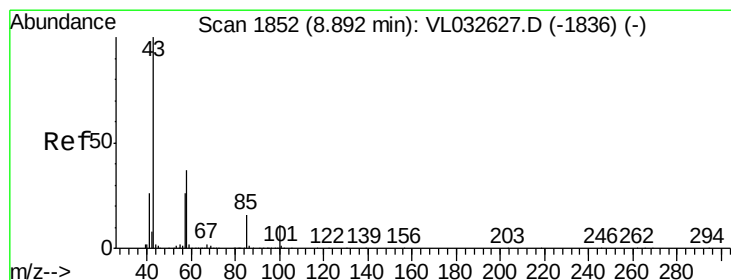
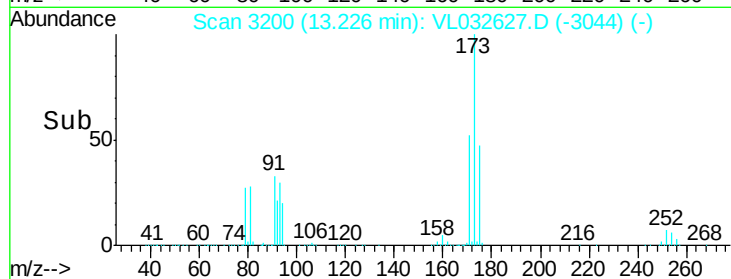
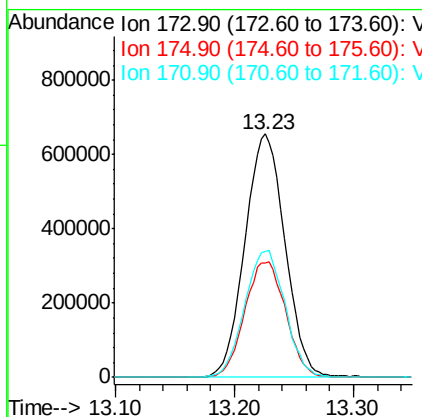
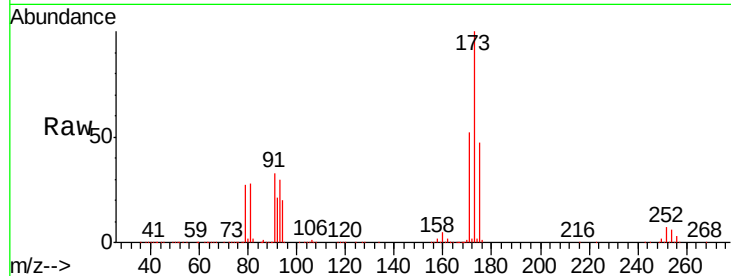
#49
Bromoform
Concen: 10.53 ppbv
RT: 13.23 min Scan# 3200
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:173 Resp: 1526047
Ion Ratio Lower Upper
173 100
175 48.7 39.0 58.4
171 52.7 42.2 63.2

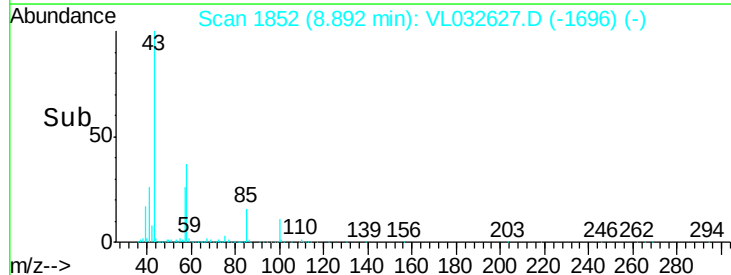
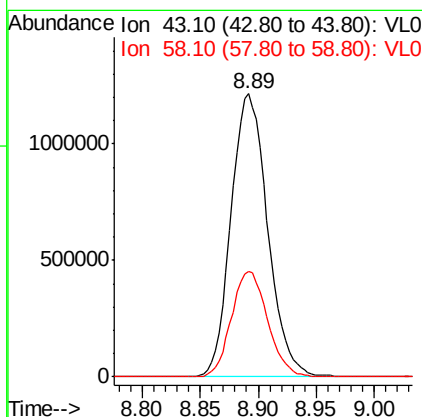
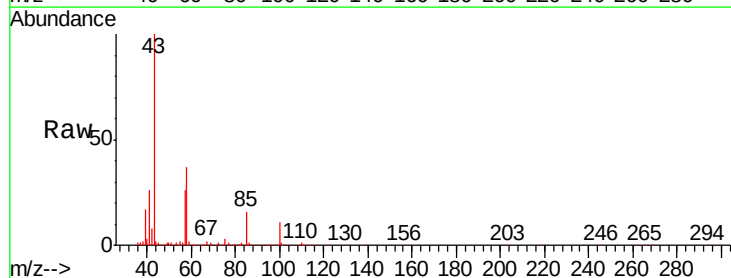
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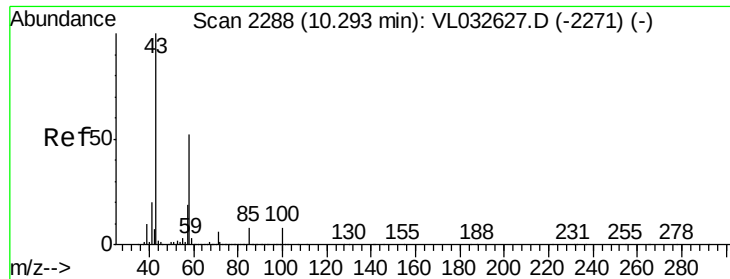
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#50
4-Methyl-2-Pentanone
Concen: 11.31 ppbv
RT: 8.89 min Scan# 1852
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion: 43 Resp: 2663849
Ion Ratio Lower Upper
43 100
58 37.1 29.7 44.5





#51

2-Hexanone

Concen: 12.43 ppbv

RT: 10.29 min Scan# 2288

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 2290157

Ion Ratio Lower Upper

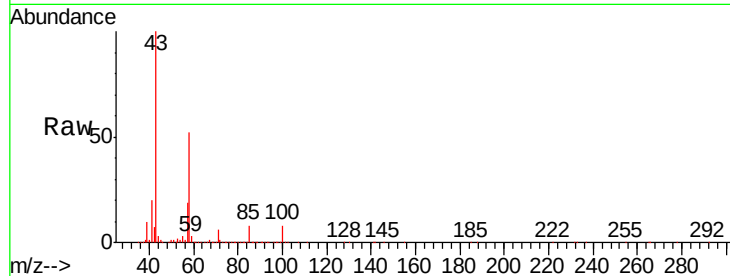
43 100

58 50.5 40.4 60.6

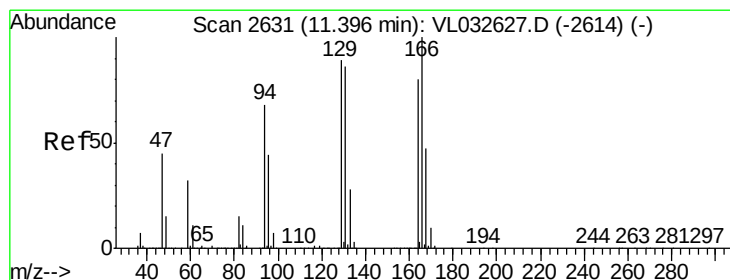
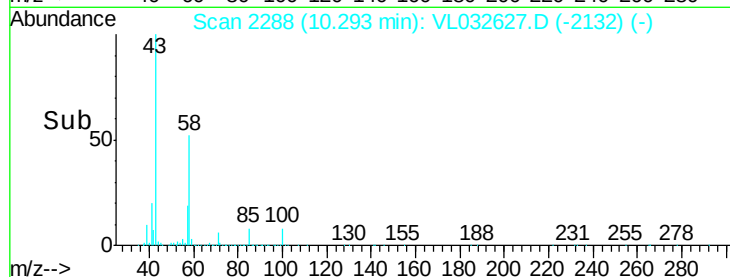
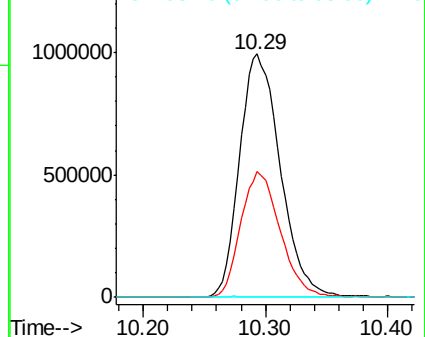
98 0.5 0.4 0.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.90 ppbv

RT: 11.40 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Tgt Ion: 164 Resp: 825318

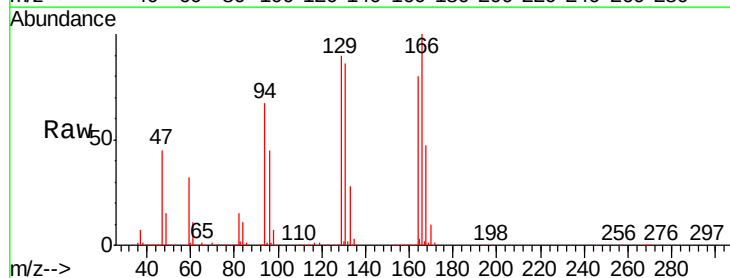
Ion Ratio Lower Upper

164 100

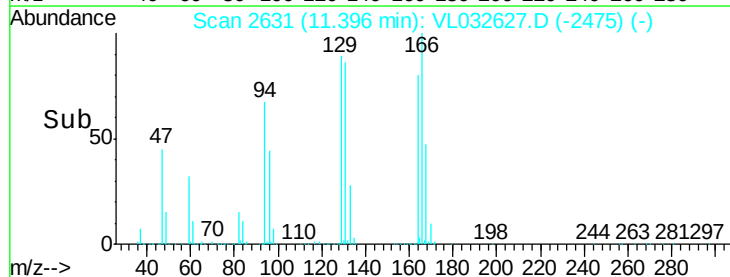
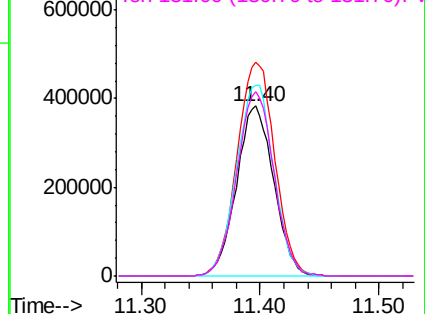
166 125.6 100.5 150.7

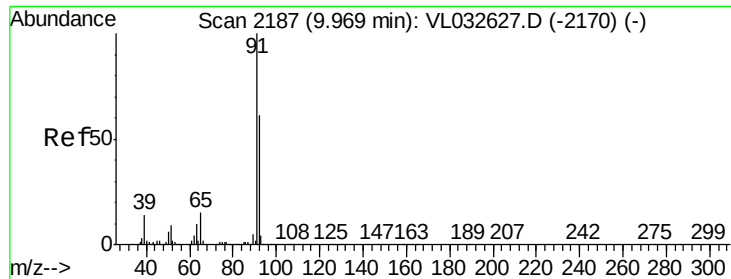
129 112.5 90.0 135.0

131 108.2 86.6 129.8



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.91 ppbv

RT: 9.97 min Scan# 2187

Delta R.T. 0.00 min

Lab File: VL032627.D

Acq: 17 Oct 2018 2:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 91 Resp: 3195824

Ion Ratio Lower Upper

91 100

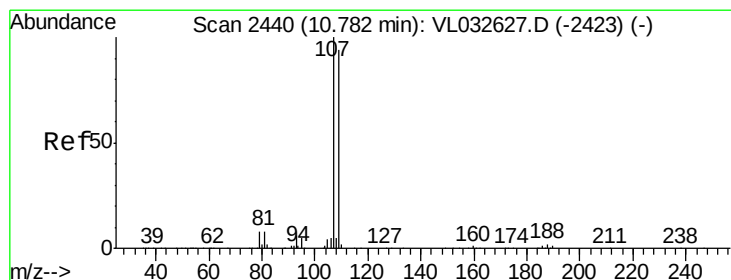
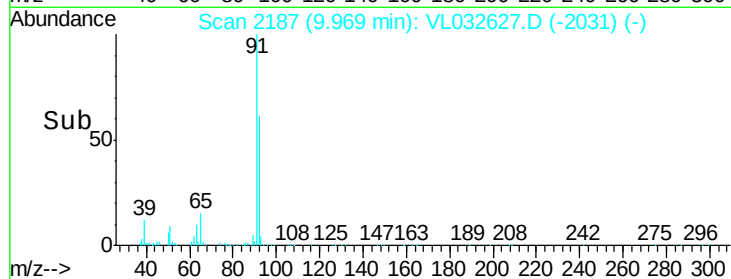
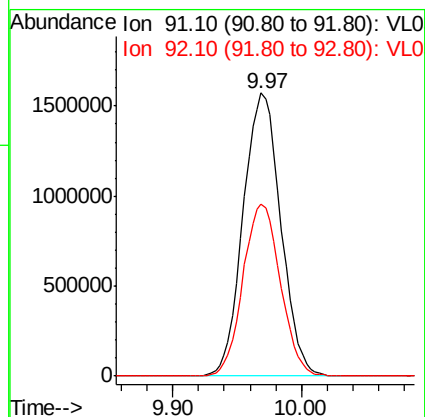
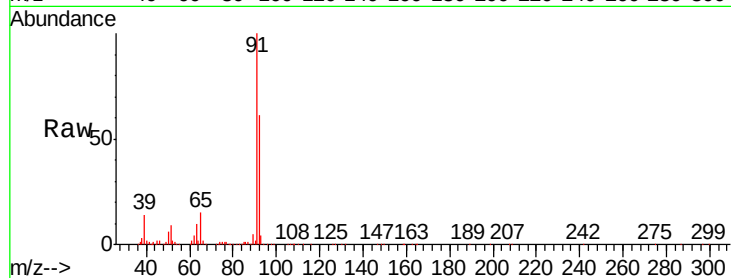
92 60.5 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 11.04 ppbv

RT: 10.78 min Scan# 2440

Delta R.T. 0.00 min

Lab File: VL032627.D

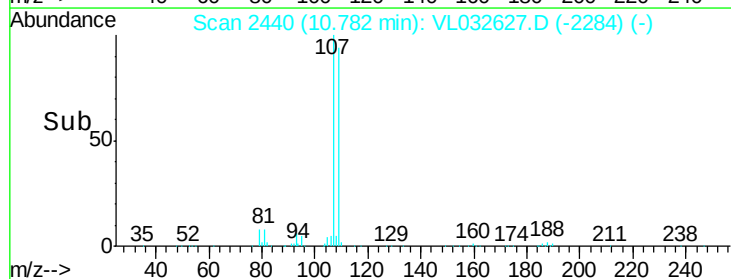
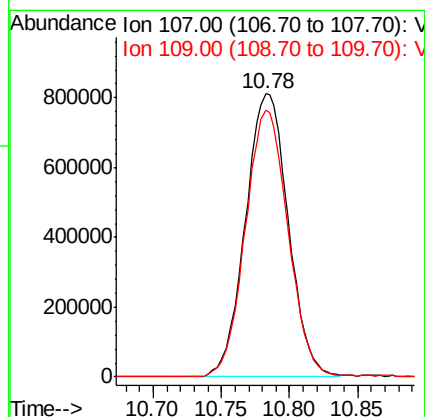
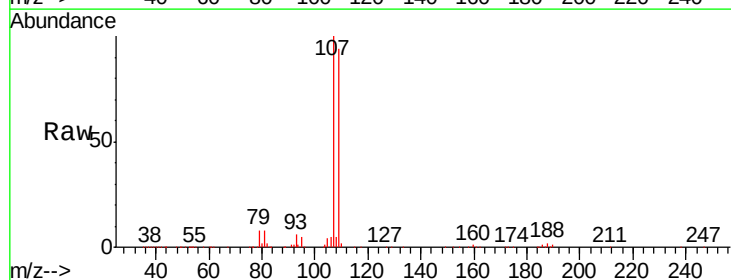
Acq: 17 Oct 2018 2:45

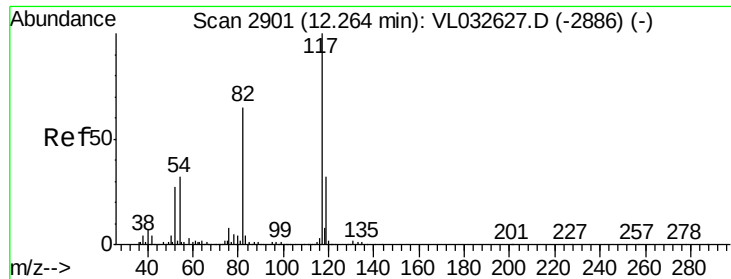
Tgt Ion: 107 Resp: 1766898

Ion Ratio Lower Upper

107 100

109 94.1 75.3 112.9





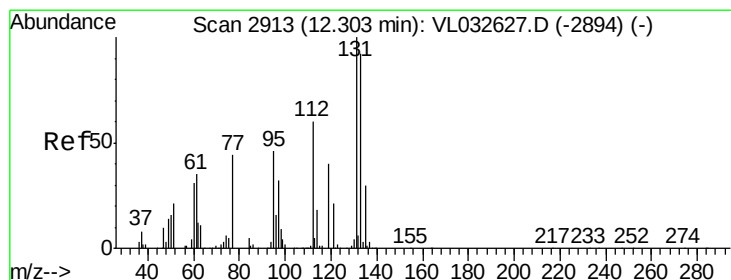
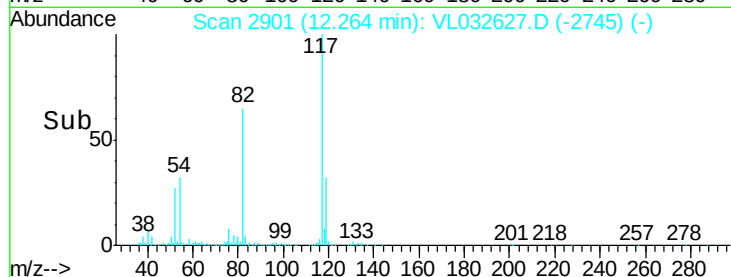
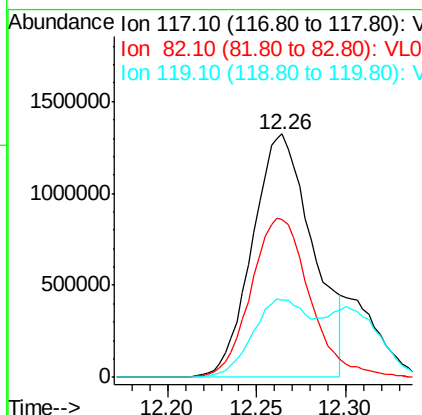
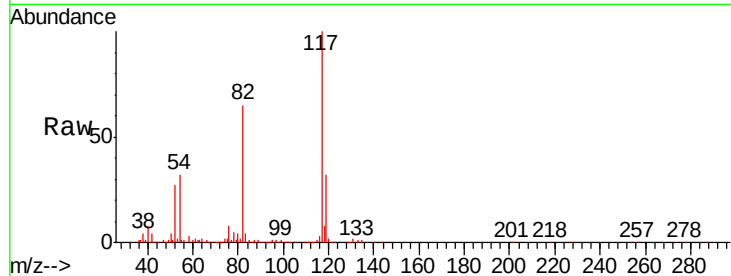
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.26 min Scan# 2901
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:117 Resp: 3128860
Ion Ratio Lower Upper
117 100
82 64.1 52.7 79.1
119 32.4 26.7 40.1

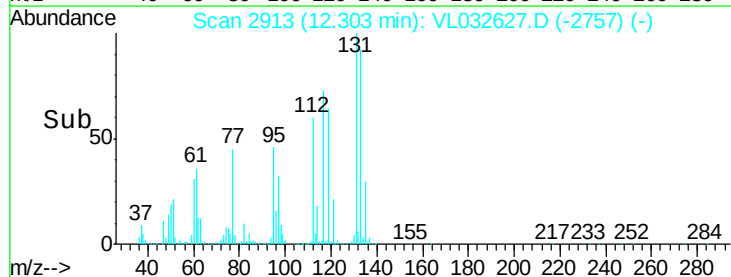
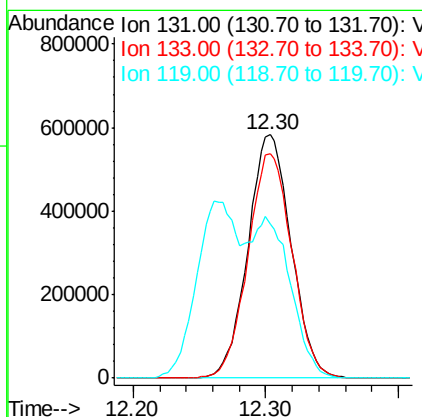
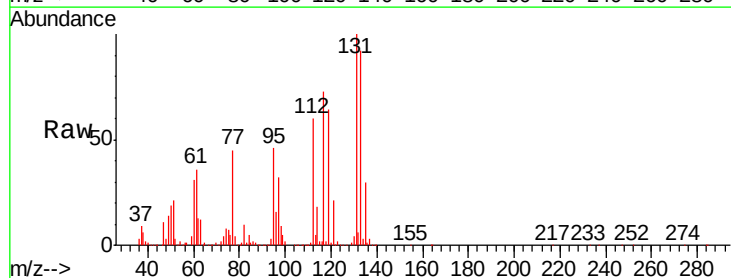
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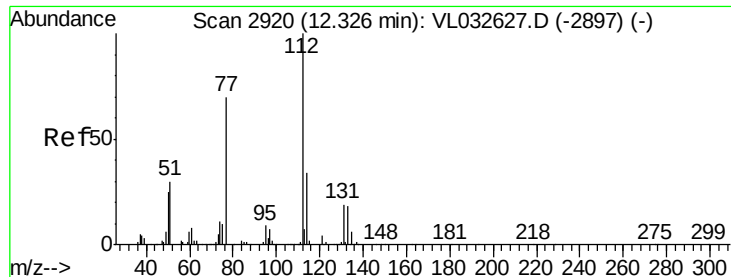
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.32 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion:131 Resp: 1318927
Ion Ratio Lower Upper
131 100
133 94.3 75.4 113.2
119 61.4 49.1 73.7





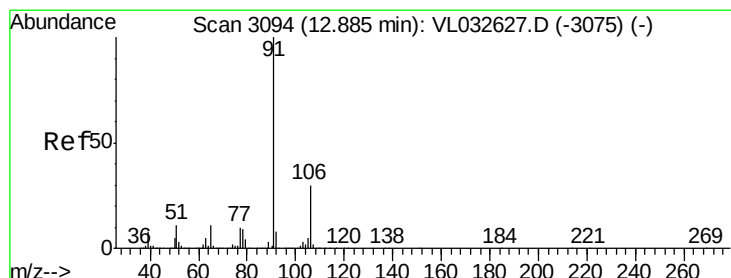
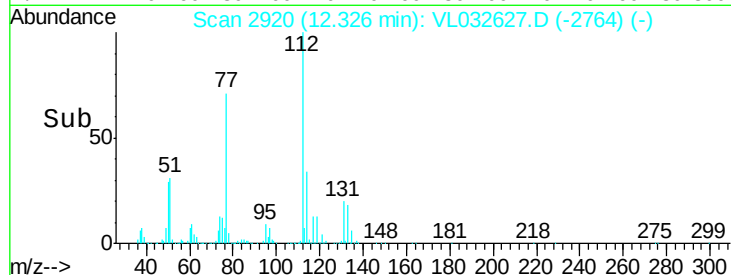
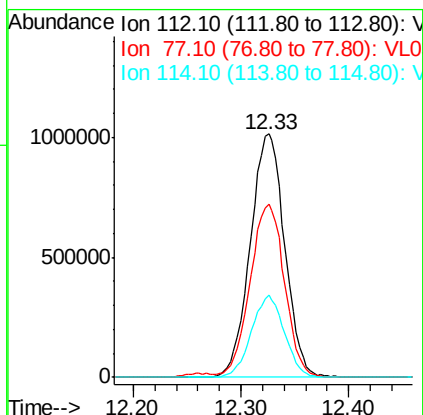
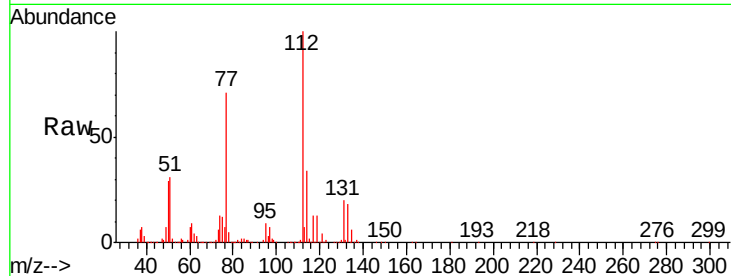
#57
Chlorobenzene
Concen: 9.45 ppbv
RT: 12.33 min Scan# 2920
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 112 Resp: 2240809
Ion Ratio Lower Upper
112 100
77 71.0 56.8 85.2
114 33.7 30.3 37.1

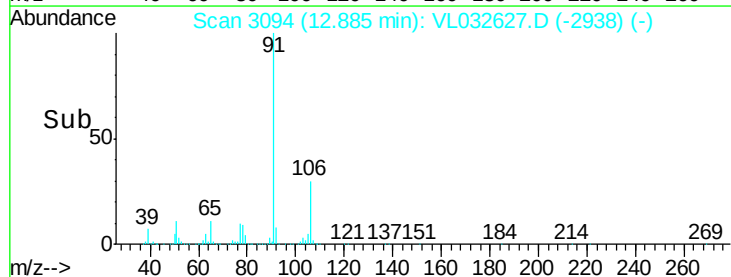
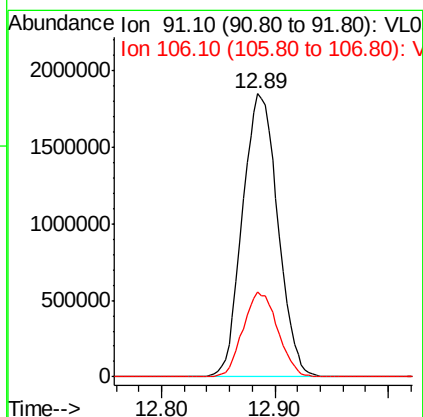
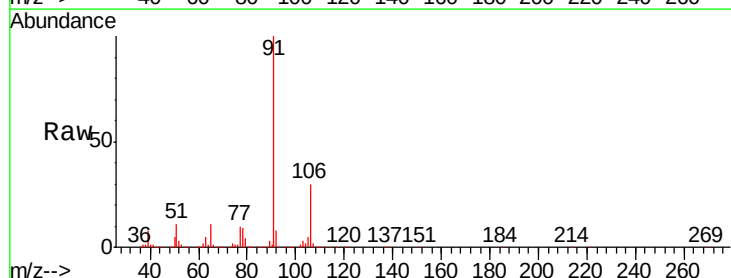
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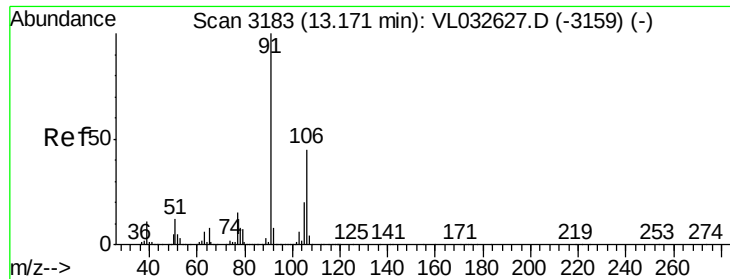
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#58
Ethyl Benzene
Concen: 11.69 ppbv
RT: 12.89 min Scan# 3094
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion: 91 Resp: 4023228
Ion Ratio Lower Upper
91 100
106 30.2 24.2 36.2





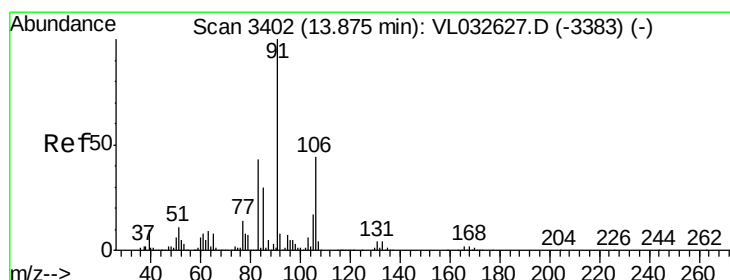
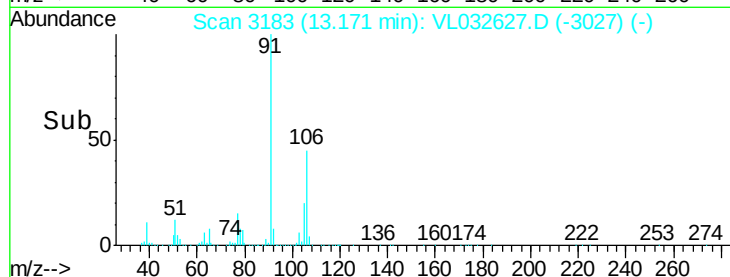
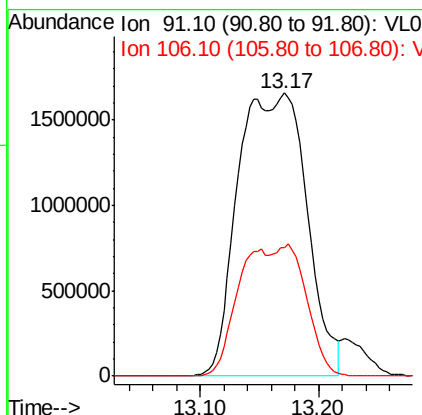
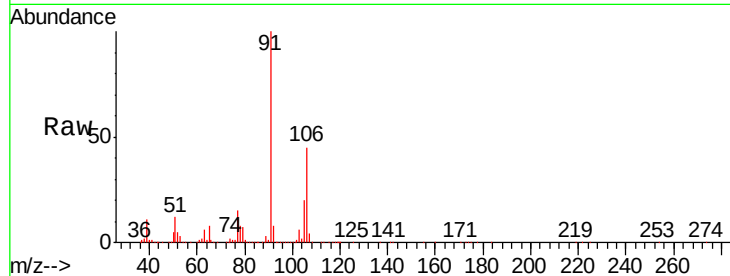
#59
m/p-Xylene
Concen: 21.31 ppbv m
RT: 13.17 min Scan# 3183
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 6656319
Ion Ratio Lower Upper
91 100
106 44.9 35.9 53.9

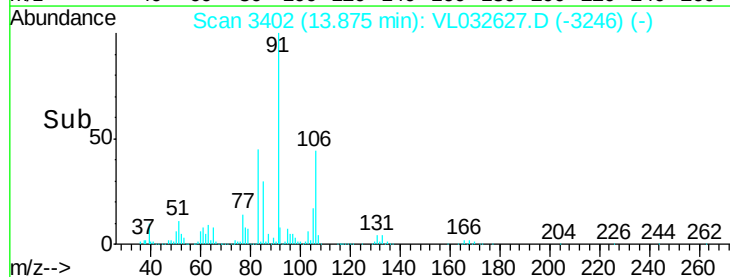
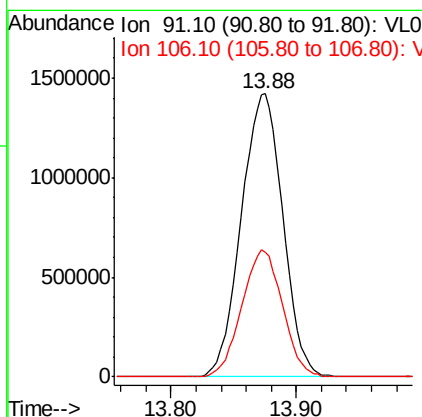
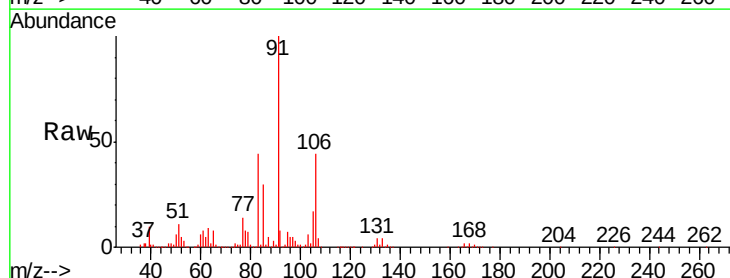
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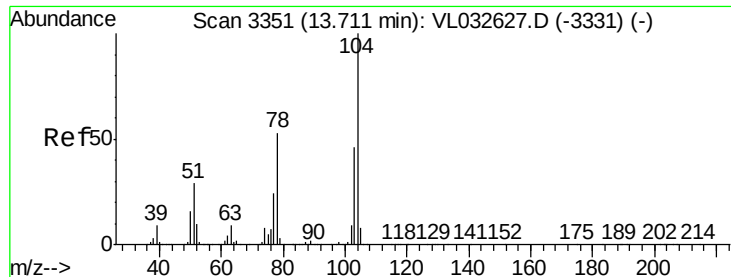
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#60
o-Xylene
Concen: 10.61 ppbv
RT: 13.88 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion: 91 Resp: 3268522
Ion Ratio Lower Upper
91 100
106 44.1 22.1 66.1





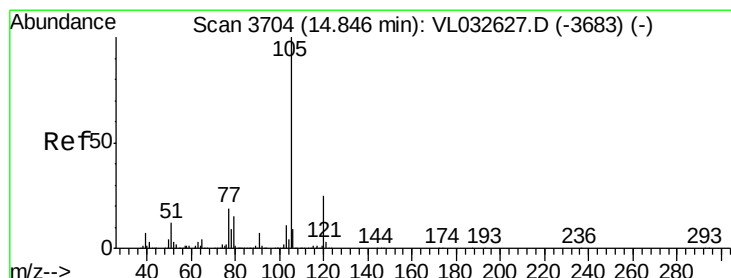
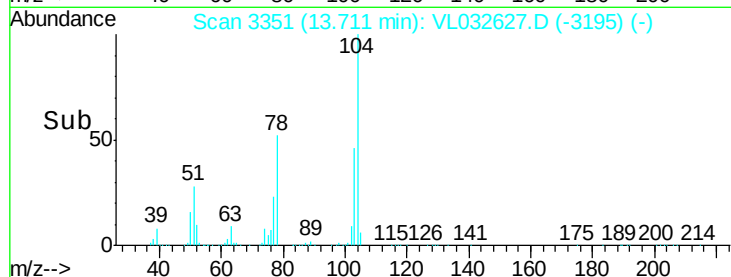
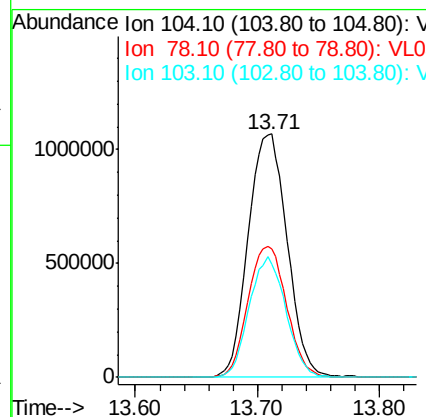
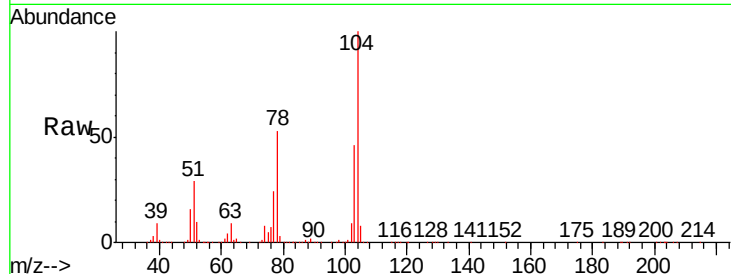
#61
Styrene
Concen: 12.44 ppbv
RT: 13.71 min Scan# 3351
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion	Ratio	Lower	Upper
104	100		
78	53.4	42.8	64.2
103	46.8	37.4	56.0

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#62
Isopropylbenzene
Concen: 10.54 ppbv
RT: 14.85 min Scan# 3704
Delta R.T. 0.00 min
Lab File: VL032627.D
Acq: 17 Oct 2018 2:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7

