

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\
 Data File : VL033435.D
 Acq On : 25 Mar 2019 11:09
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:42 AM

Quant Time: Mar 25 11:48:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	769064	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1844603	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1919299	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1490412	10.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	191392	1.415 ppbv	99
3) Chlorodifluoromethane	3.02	51	180629	2.046 ppbv	98
4) Chloromethane	3.17	50	94781	1.983 ppbv	99
5) Vinyl Chloride	3.29	62	95827	1.943 ppbv	95
6) Bromomethane	3.52	94	61375	2.094 ppbv	95
7) Chloroethane	3.60	64	34341	1.993 ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	242387	2.105 ppbv	98
9) Propene	3.04	41	76518	1.942 ppbv	98
10) Heptane	8.25	43	203778	2.085 ppbv	98
11) Trichlorofluoromethane	4.00	101	274185	2.036 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	185518	2.076 ppbv	98
13) Ethanol	3.65	45	20231m	1.077 ppbv	
14) Bromoethene	3.79	108	75881	2.037 ppbv	100
15) Acetone	3.90	43	199801	1.671 ppbv	98
16) 1,3-Butadiene	3.36	39	81233	2.092 ppbv	92
17) tert-Butyl alcohol	4.36	59	31463	1.870 ppbv	98
18) 1,1-Dichloroethene	4.35	96	79247	1.940 ppbv	98
19) Isopropyl Alcohol	4.03	45	107839	1.896 ppbv	# 95
20) Methylene Chloride	4.41	84	80484	2.064 ppbv	96
21) Allyl Chloride	4.48	41	115789	1.997 ppbv	98
22) trans-1,2-Dichloroethene	4.96	96	84374	2.131 ppbv	97
23) Vinyl Acetate	5.16	43	267257	1.932 ppbv	98
24) 1,1-Dichloroethane	5.09	63	202824	2.030 ppbv	100
25) Ethyl Acetate	5.77	43	356099	2.049 ppbv	99
26) Hexane	5.78	57	162608	2.093 ppbv	98
27) Carbon Disulfide	4.62	76	182998	2.046 ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	229688	1.990 ppbv	100
29) Chloroform	5.85	83	269499	2.118 ppbv	99
30) Cyclohexane	7.25	84	124935	2.006 ppbv	87
31) cis-1,2-Dichloroethene	5.64	61	157313	2.025 ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	262692	2.103 ppbv	100
34) 2-Butanone	5.33	43	225125	1.858 ppbv	98
35) Carbon Tetrachloride	7.14	117	265331	2.040 ppbv	99
36) Benzene	7.00	78	311732	1.888 ppbv	97
37) 1,2-Dichloroethane	6.41	62	204057	1.955 ppbv	100
38) Trichloroethene	7.96	130	125660	2.012 ppbv	93
39) 1,2-Dichloropropane	7.73	63	124715	2.017 ppbv	97
40) 1,4-Dioxane	7.97	88	43383m	1.993 ppbv	
41) Tetrahydrofuran	6.16	42	122430	1.894 ppbv	98
42) Bromodichloromethane	7.91	83	285294	2.039 ppbv	94
43) Methyl Methacrylate	8.14	69	127229	1.979 ppbv	100

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Manual Integrations
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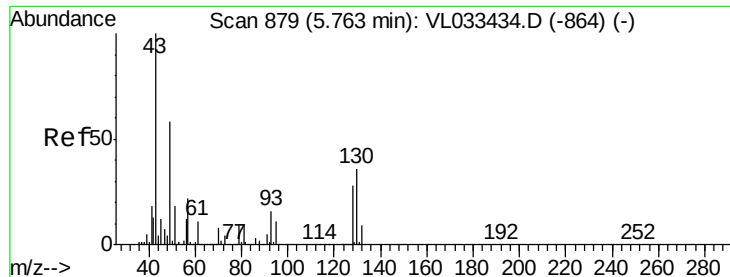
MMDadoda
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	568296	2.078	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	151677	1.911	ppbv	94
46) cis-1,3-Dichloropropene	8.83	75	180305	1.930	ppbv	94
47) 1,1,2-Trichloroethane	9.62	97	139837m	2.047	ppbv	
48) Dibromochloromethane	10.45	129	232870	2.033	ppbv	99
49) Bromoform	13.20	173	207633	1.911	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	334796	1.957	ppbv	100
51) 2-Hexanone	10.28	43	247887	1.878	ppbv #	100
52) Tetrachloroethene	11.37	164	124435	1.809	ppbv	97
53) Toluene	9.95	91	371711	1.982	ppbv	99
54) 1,2-Dibromoethane	10.76	107	213983	1.853	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	176798	2.059	ppbv #	1
57) Chlorobenzene	12.30	112	306212	2.014	ppbv	93
58) Ethyl Benzene	12.86	91	537370	1.979	ppbv	99
59) m/p-Xylene	13.13	91	927294m	3.974	ppbv	
60) o-Xylene	13.85	91	465392	2.044	ppbv	99
61) Styrene	13.69	104	318203	1.996	ppbv	99
62) Isopropylbenzene	14.82	105	648744	2.050	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	333123	2.024	ppbv	99
64) n-propylbenzene	15.72	120	161110	2.012	ppbv	99
65) tert-Butylbenzene	16.91	119	576750	2.024	ppbv	100
66) Benzyl Chloride	17.16	91	244983	2.081	ppbv	99
67) sec-Butylbenzene	17.46	105	820434	2.032	ppbv	100
69) p-Isopropyltoluene	17.81	119	668306	2.026	ppbv	98
70) n-Butylbenzene	18.71	91	713225	2.028	ppbv	100
71) 2-Chlorotoluene	15.62	91	487778	1.980	ppbv	100
72) 4-Ethyltoluene	16.00	105	525369	2.032	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	482662	1.917	ppbv	95
74) 1,2,4-Trimethylbenzene	16.93	105	523802	1.964	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	325759	2.072	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	311915	2.049	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	308595	2.073	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	193677m	2.170	ppbv	
79) Naphthalene	22.42	128	443881	1.727	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	128719	1.056	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	252102m	1.924	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

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MSVOA_L

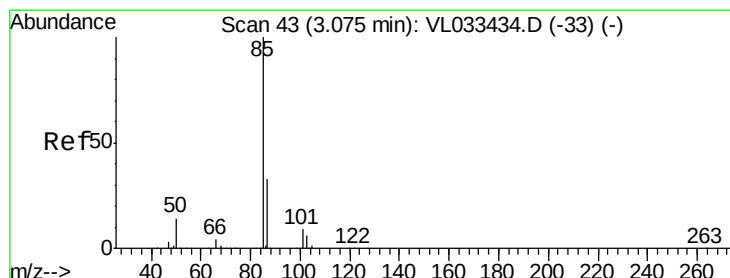
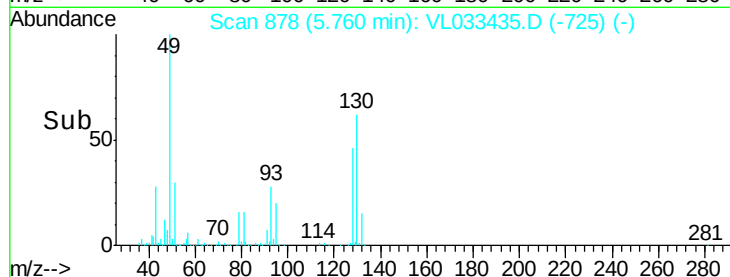
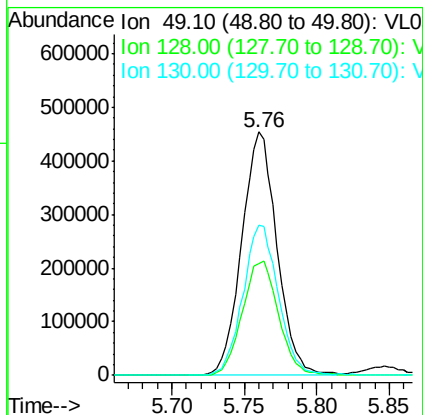
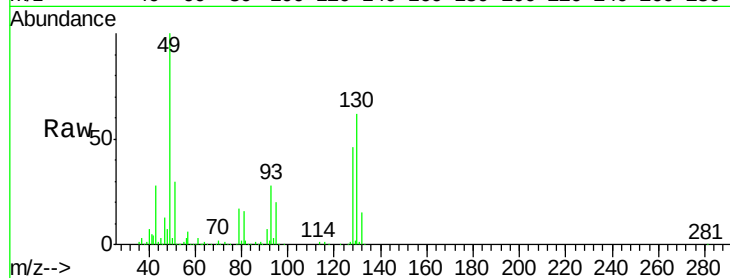
ClientSampleId :

VSTDIC002

Tot Ion:	49	Resp:	769064
Ion	Ratio	Lower	Upper
49	100		
128	48.7	23.5	70.6
130	62.4	30.1	90.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 1.415 ppbv

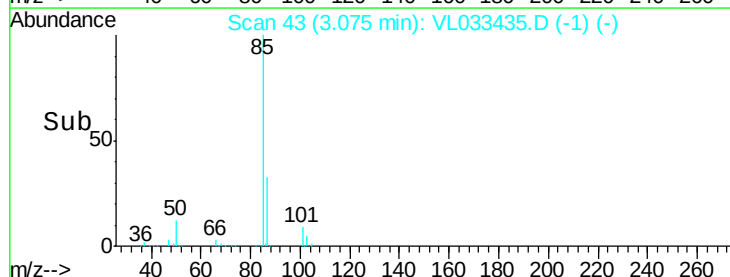
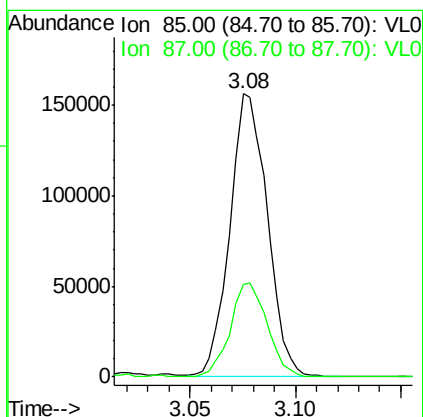
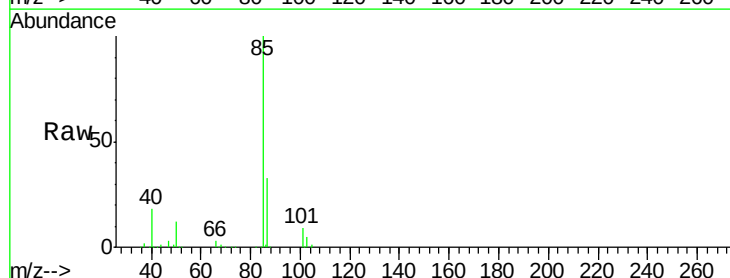
RT: 3.08 min Scan# 43

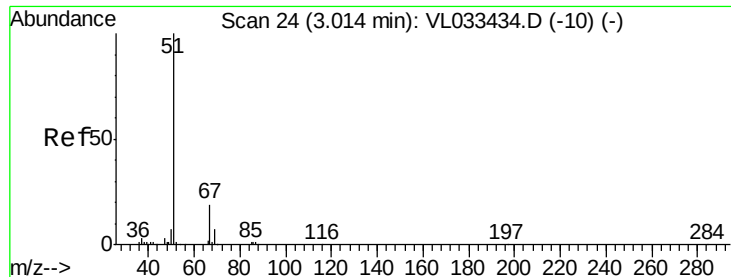
Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion:	85	Resp:	191392
Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.9	40.3





#3

Chlorodifluoromethane

Concen: 2.046 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 180629

Ion Ratio Lower Upper

51 100

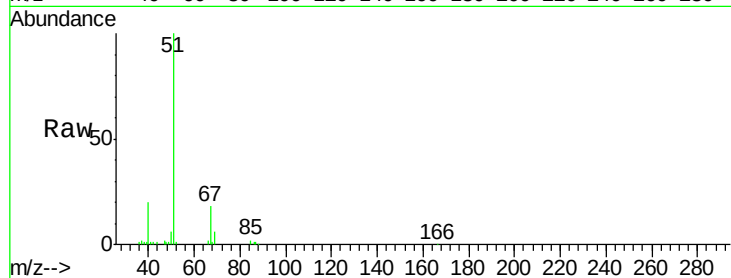
67 19.3 14.9 22.3

Manual Integrations

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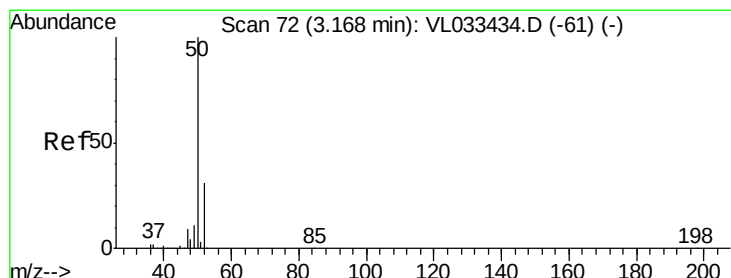
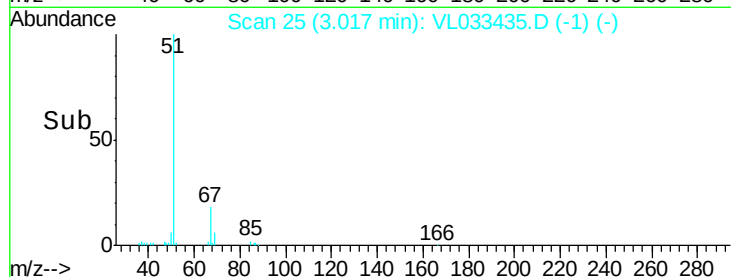
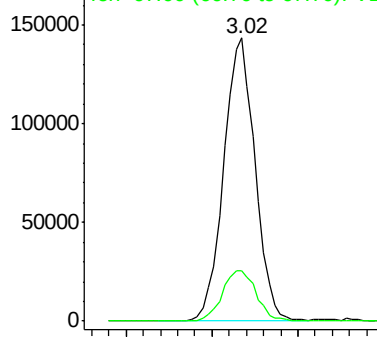
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.983 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033435.D

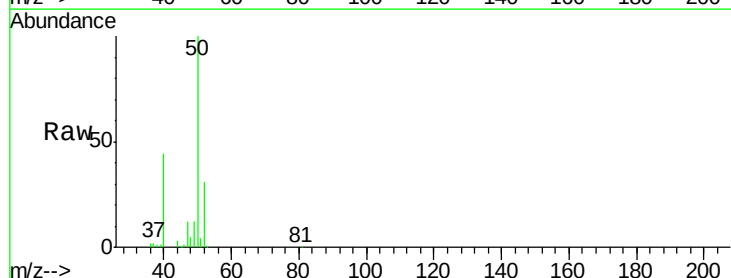
Acq: 25 Mar 2019 11:09

Tgt Ion: 50 Resp: 94781

Ion Ratio Lower Upper

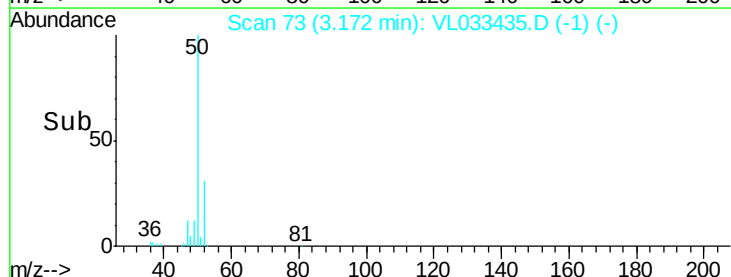
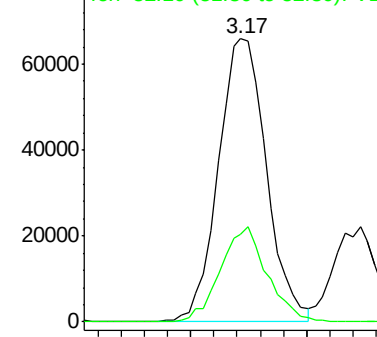
50 100

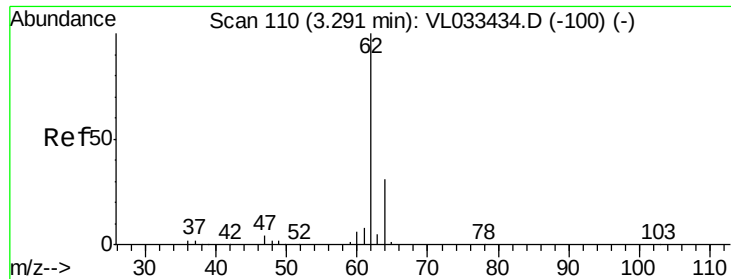
52 30.7 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.943 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 95827

Ion Ratio Lower Upper

62 100

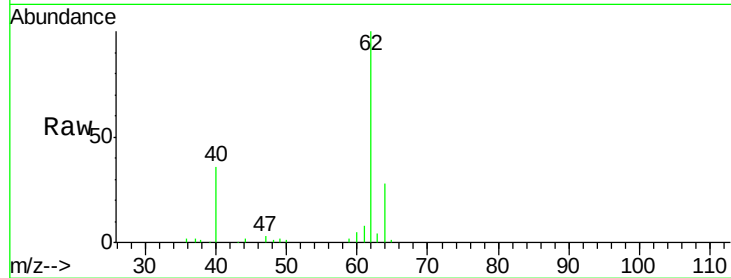
64 28.5 25.0 37.6

Manual Integrations

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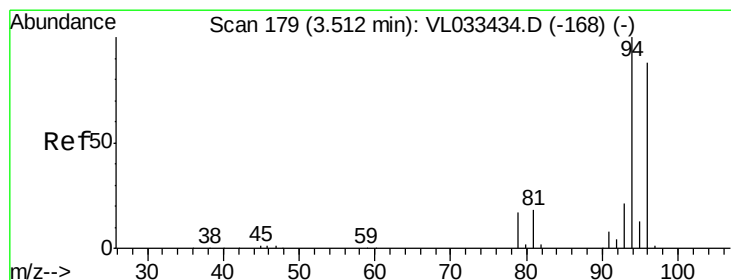
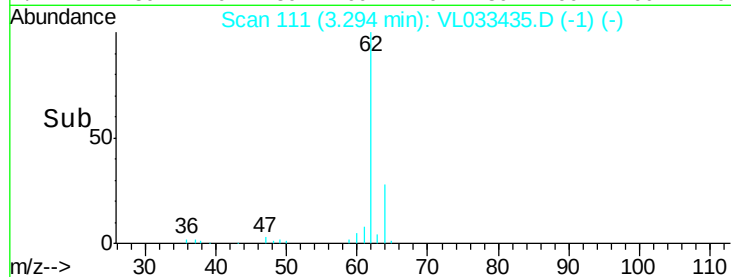
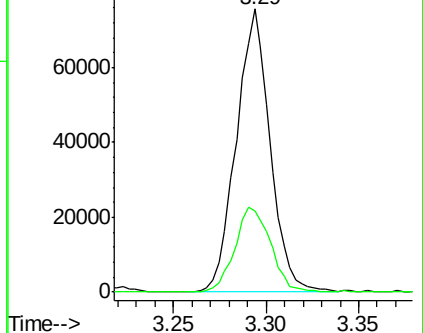
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 2.094 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033435.D

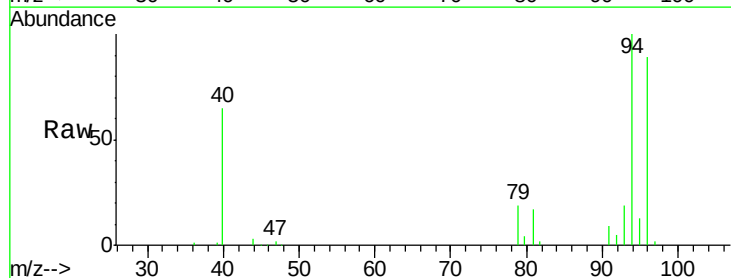
Acq: 25 Mar 2019 11:09

Tgt Ion: 94 Resp: 61375

Ion Ratio Lower Upper

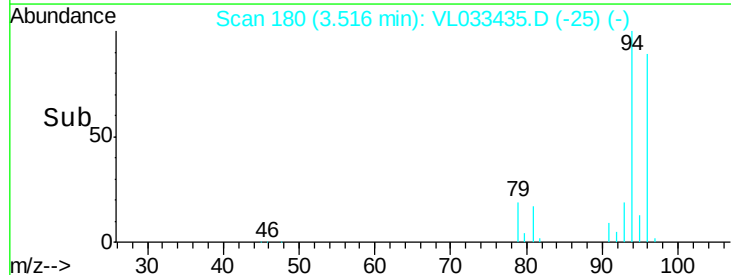
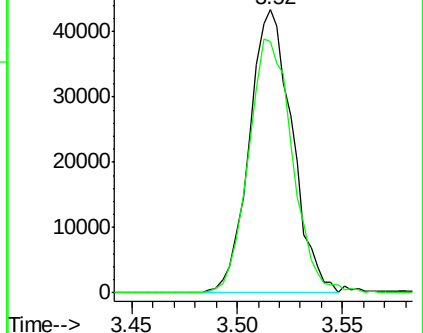
94 100

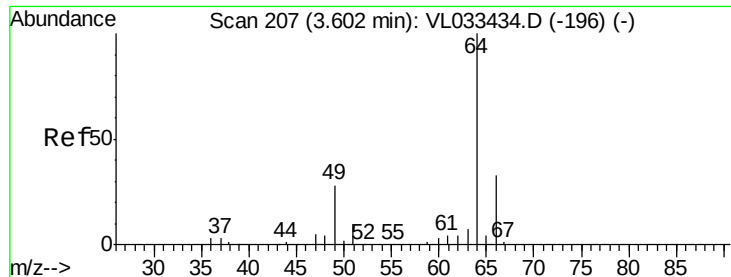
96 88.8 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.993 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 34341

Ion Ratio Lower Upper

64 100

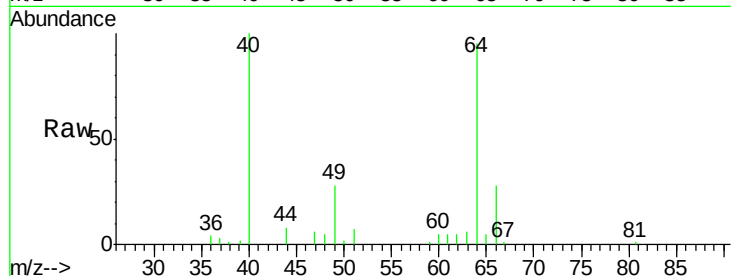
66 30.1 24.0 36.0

Manual Integrations

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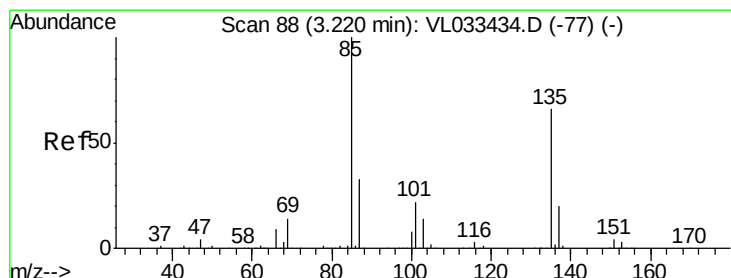
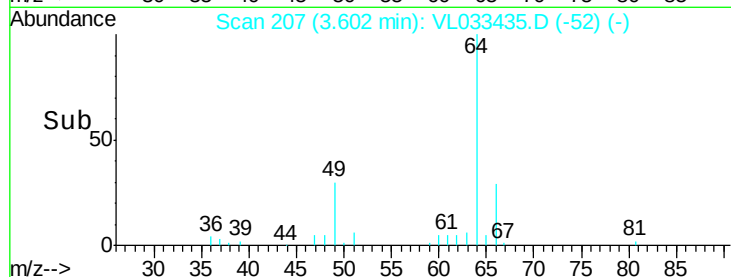
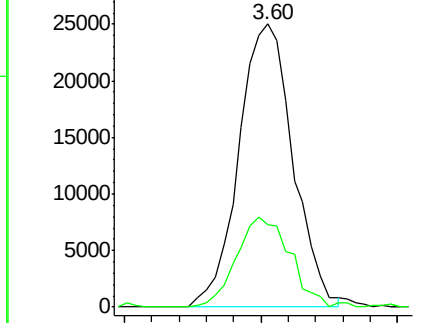
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 2.105 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033435.D

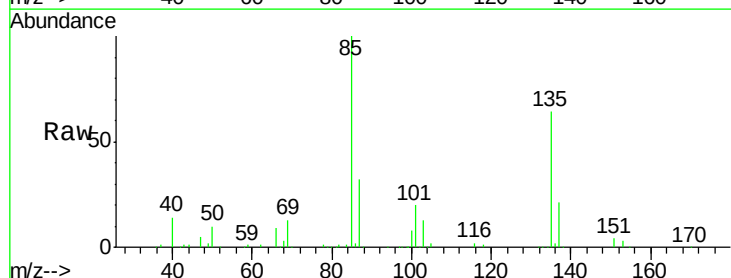
Acq: 25 Mar 2019 11:09

Tgt Ion: 85 Resp: 242387

Ion Ratio Lower Upper

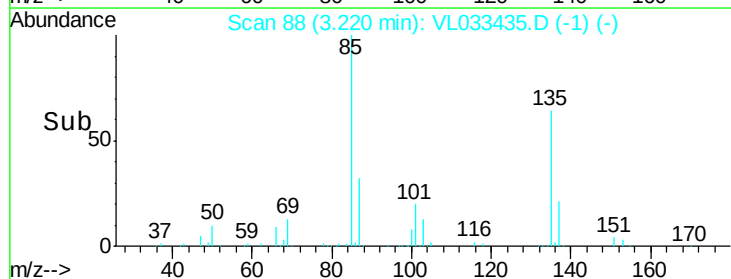
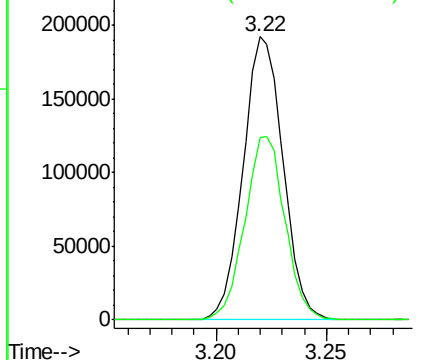
85 100

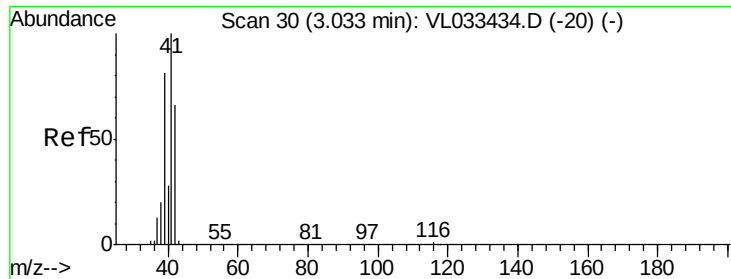
135 65.3 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.942 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 41 Resp: 76518

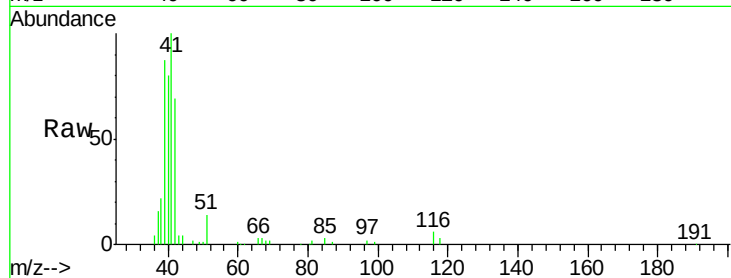
Ion Ratio Lower Upper

41 100

42 67.4 55.2 82.8

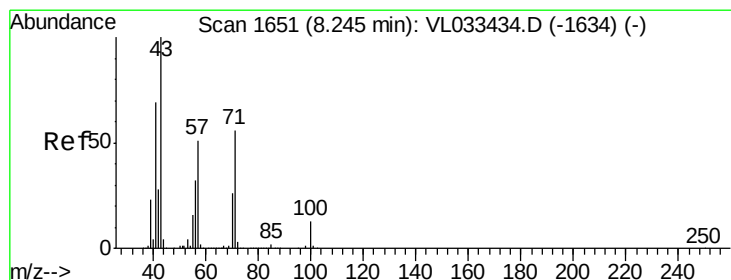
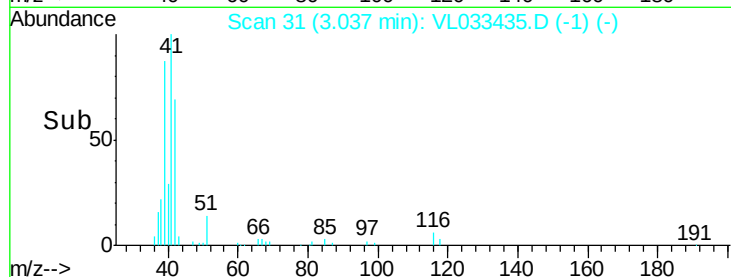
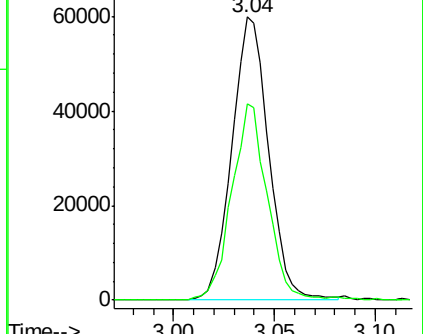
Manual Integrations
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 2.085 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033435.D

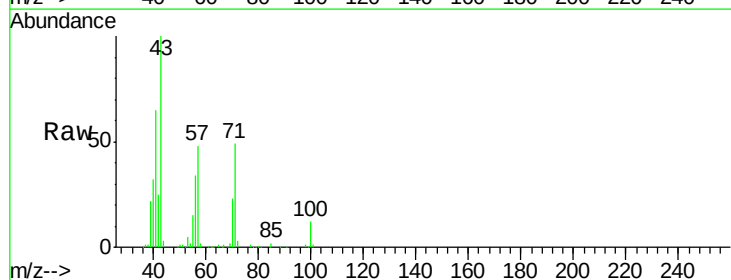
Acq: 25 Mar 2019 11:09

Tgt Ion: 43 Resp: 203778

Ion Ratio Lower Upper

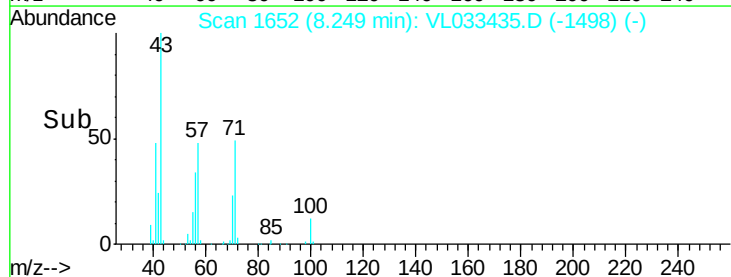
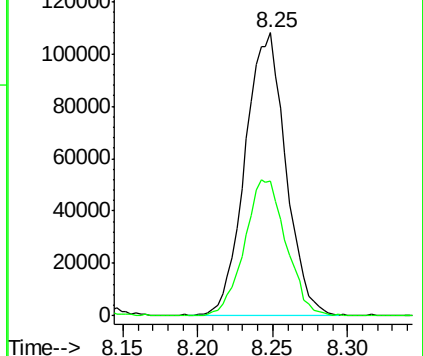
43 100

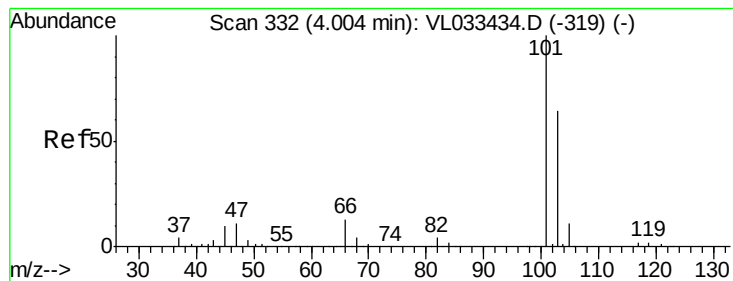
57 49.4 40.4 60.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 2.036 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 274185

Ion Ratio Lower Upper

101 100

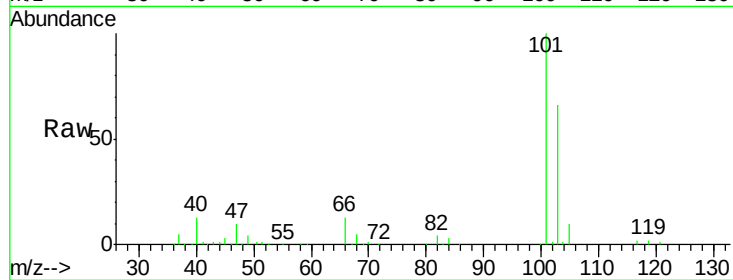
103 66.5 52.9 79.3

Manual Integrations

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4/1/2019 1:22:42 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.00

200000

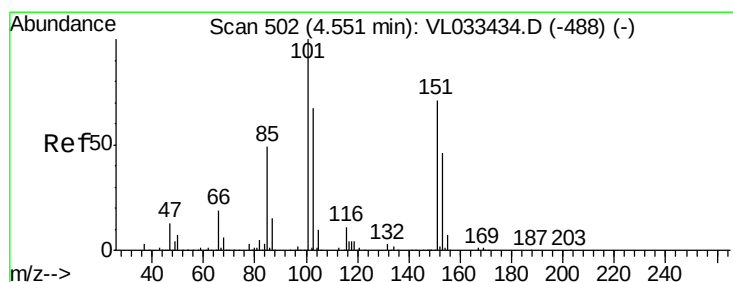
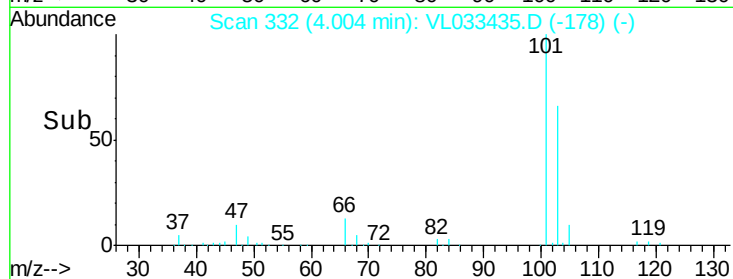
150000

100000

50000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.076 ppbv

RT: 4.55 min Scan# 503

Delta R.T. -0.00 min

Lab File: VL033435.D

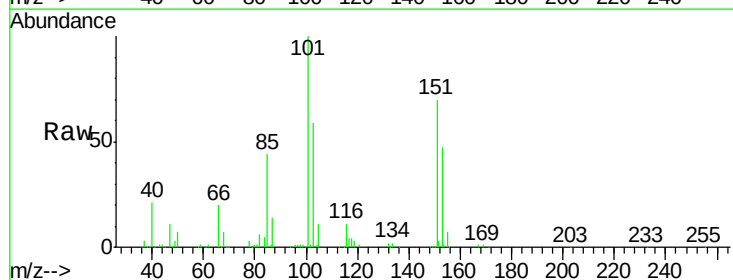
Acq: 25 Mar 2019 11:09

Tgt Ion:101 Resp: 185518

Ion Ratio Lower Upper

101 100

151 72.0 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.55

120000

100000

80000

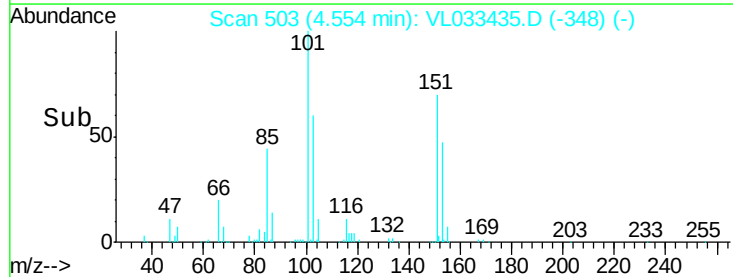
60000

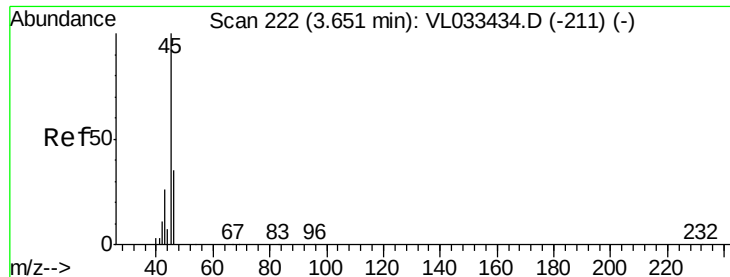
40000

20000

0

Time-->





#13

Ethanol

Concen: 1.077 ppbv m

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tot Ion: 45 Resp: 20231

Ion Ratio Lower Upper

45 100

46 45.5 14.9 59.7

Instrument :

MSVOA_L

ClientSampleId :

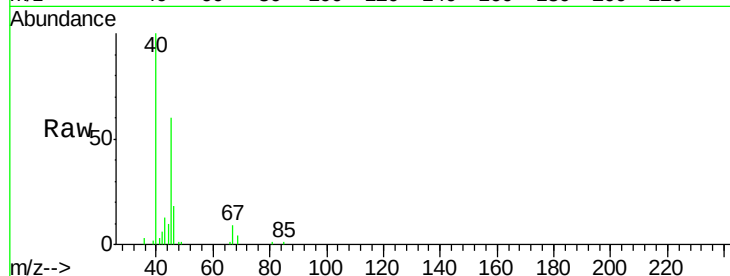
VSTDIC002

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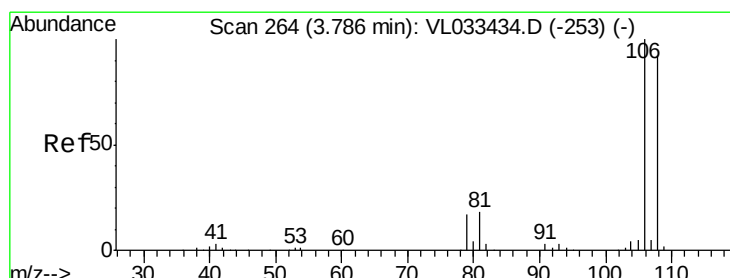
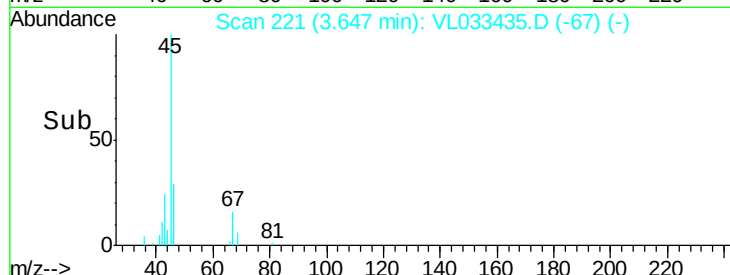
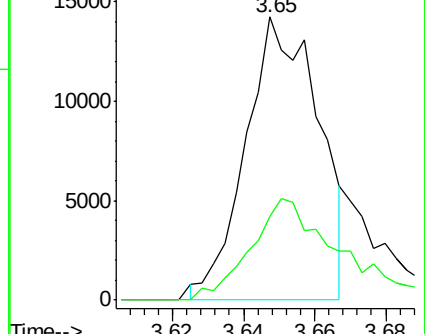
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 2.037 ppbv

RT: 3.79 min Scan# 265

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

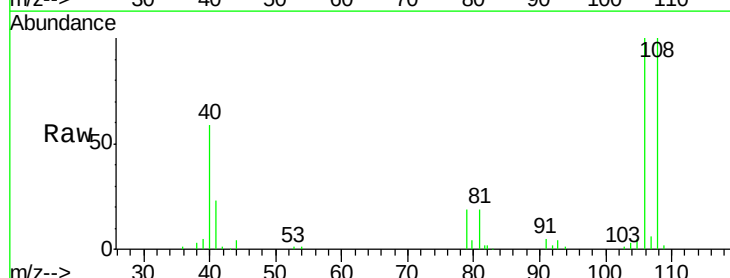
Tgt Ion: 108 Resp: 75881

Ion Ratio Lower Upper

108 100

106 107.3 86.2 129.2

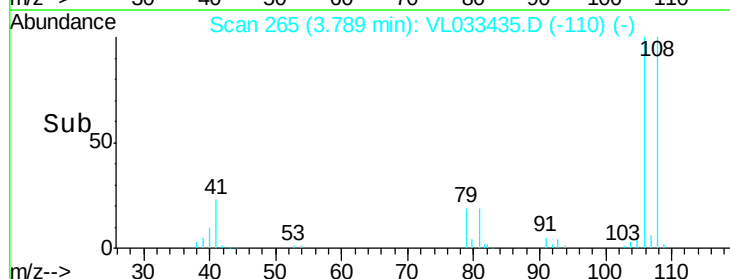
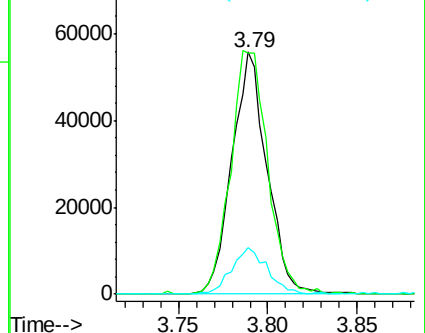
79 19.7 15.4 23.2

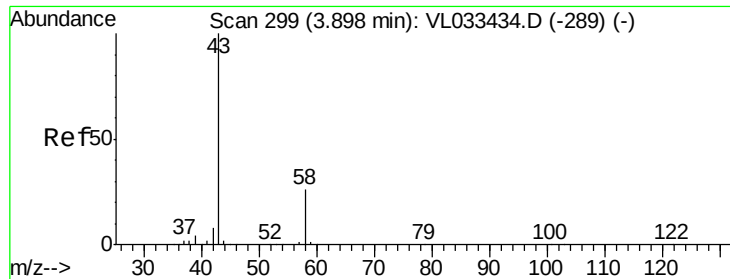


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





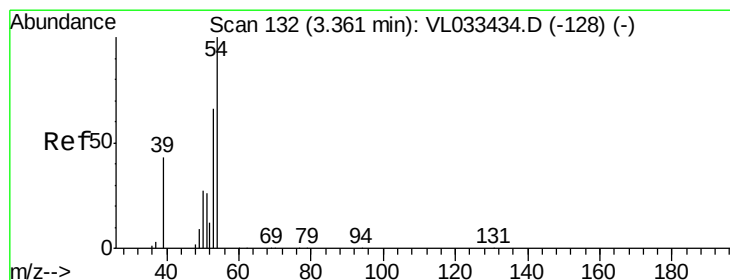
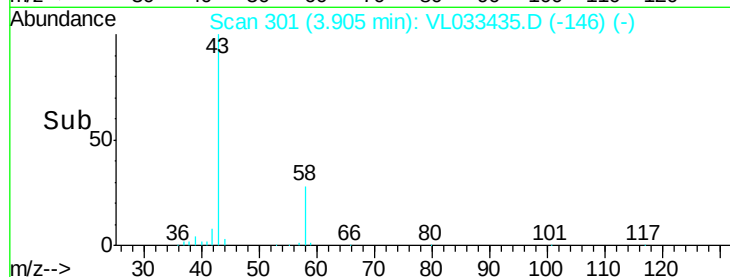
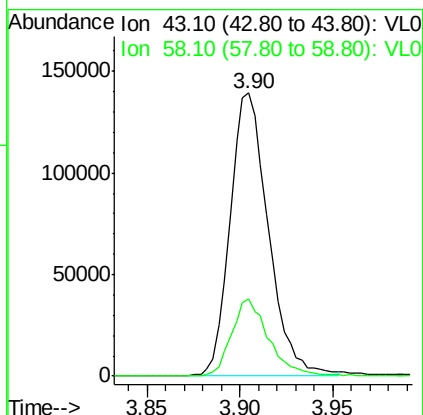
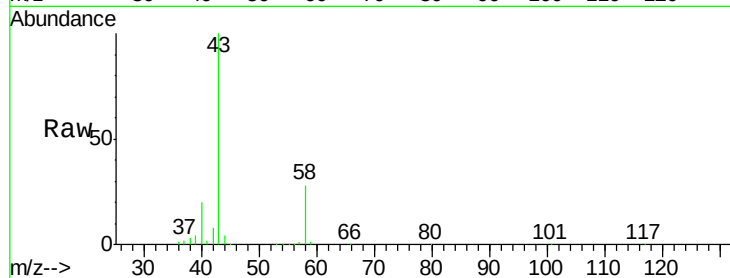
#15
Acetone
Concen: 1.671 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 43 Resp: 199801
Ion Ratio Lower Upper
43 100
58 26.5 20.4 30.6

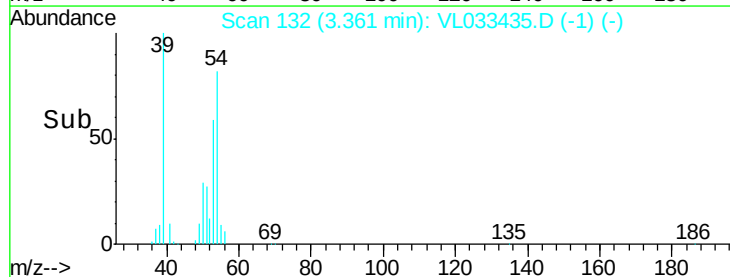
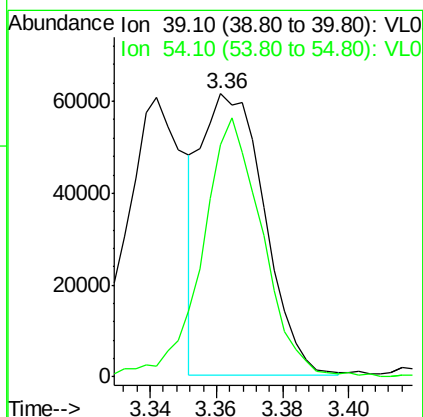
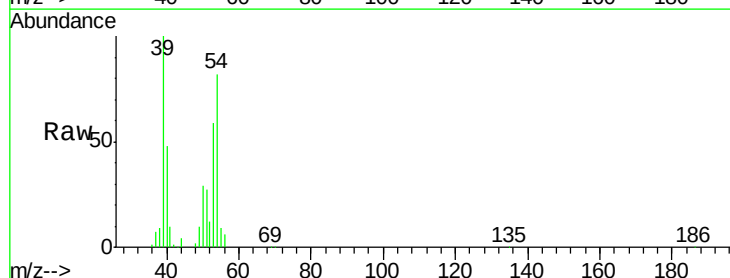
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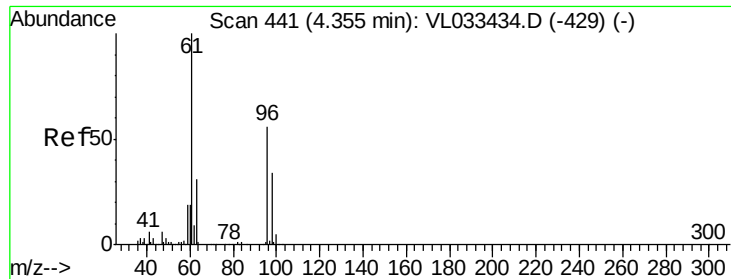
MMDadoda
4/1/2019 1:22:42 AM



#16
1,3-Butadiene
Concen: 2.092 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion: 39 Resp: 81233
Ion Ratio Lower Upper
39 100
54 88.1 76.8 115.2





#17

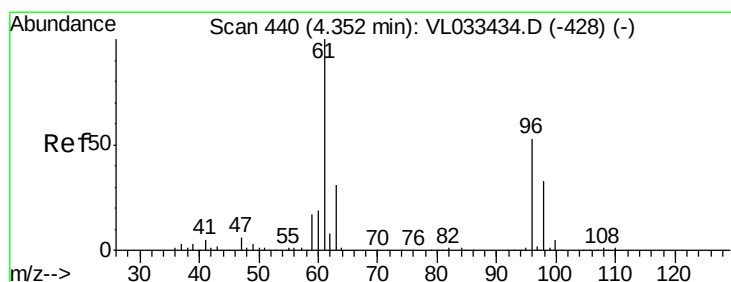
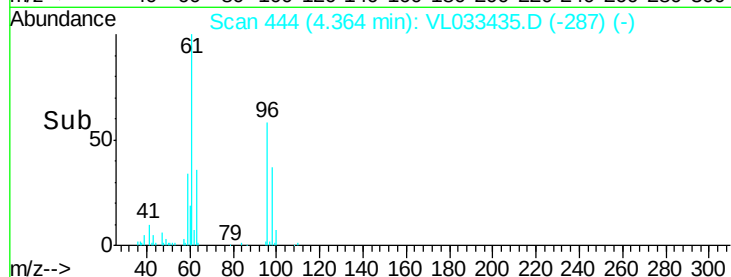
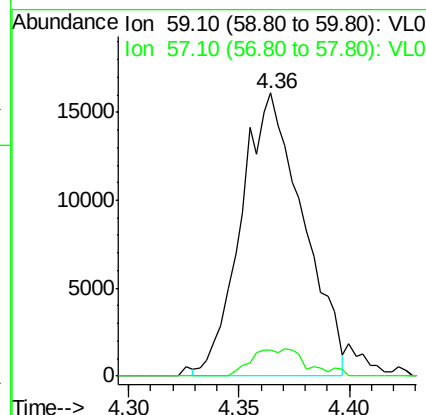
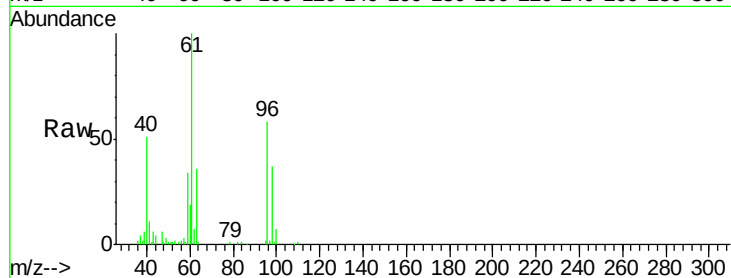
tert-Butyl alcohol
Concen: 1.870 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 59 Resp: 31463
Ion Ratio Lower Upper
59 100
57 8.7 7.7 11.5

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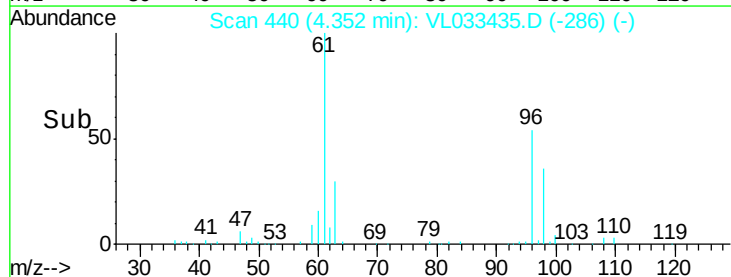
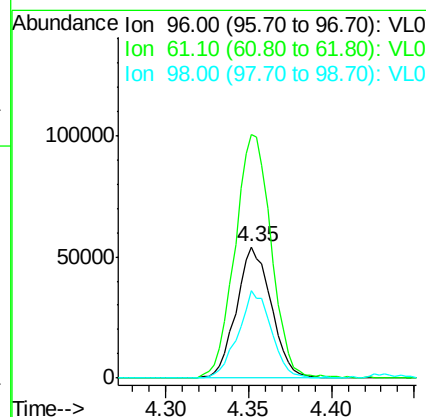
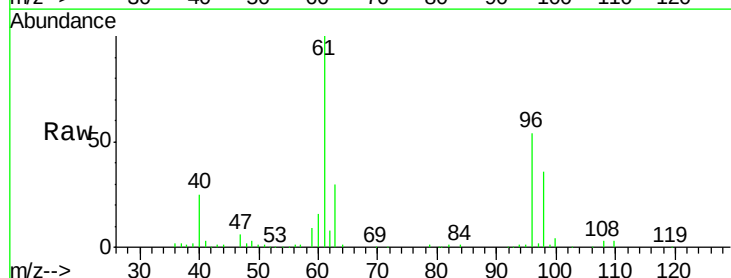
MMDadoda
4/1/2019 1:22:42 AM

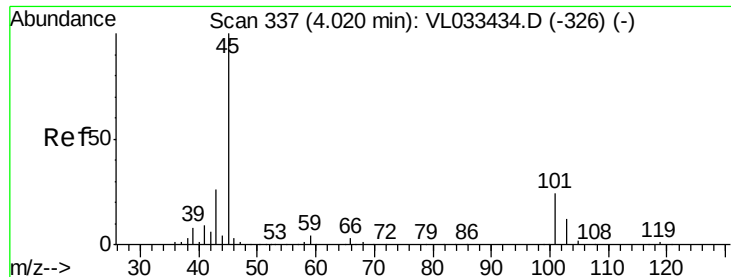


#18

1,1-Dichloroethene
Concen: 1.940 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion: 96 Resp: 79247
Ion Ratio Lower Upper
96 100
61 184.7 148.6 222.8
98 66.4 50.3 75.5





#19

Isopropyl Alcohol

Concen: 1.896 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 107839

Ion Ratio Lower Upper

45 100

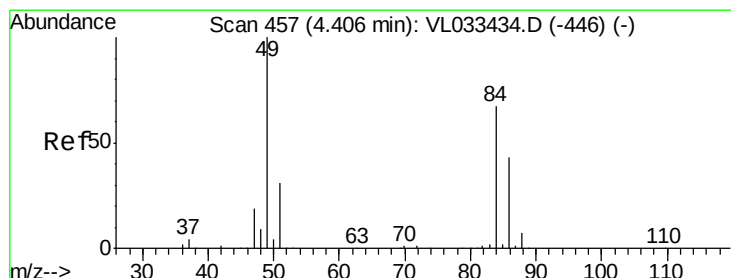
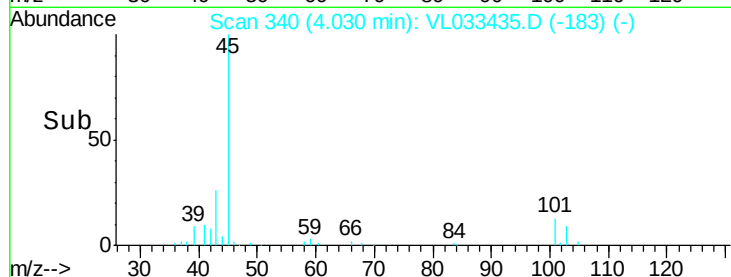
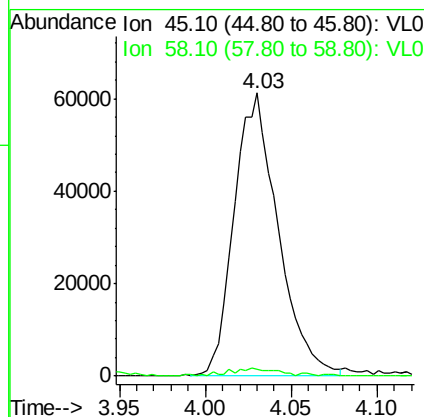
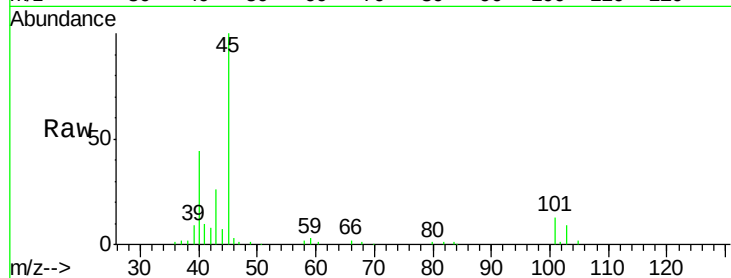
58 3.6 1.5 2.3#

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#20

Methylene Chloride

Concen: 2.064 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion: 84 Resp: 80484

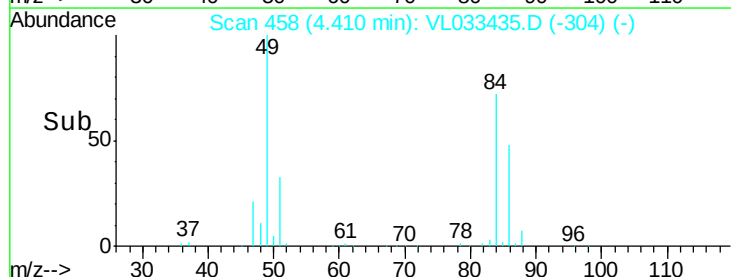
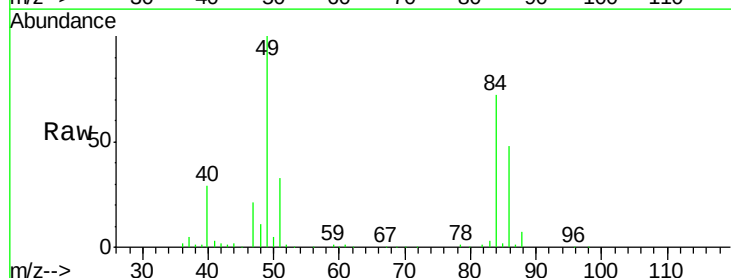
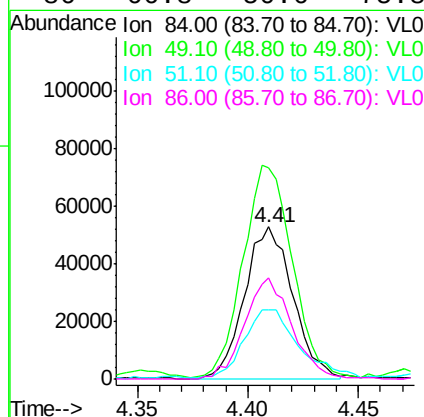
Ion Ratio Lower Upper

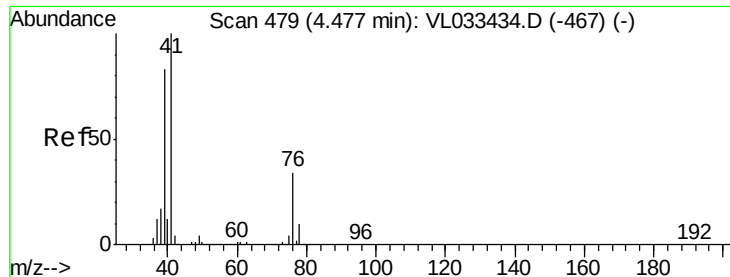
84 100

49 138.2 115.4 173.0

51 45.0 35.8 53.6

86 66.8 50.6 75.8





#21

Allvl Chloride

Concen: 1.997 ppbv

RT: 4.48 min Scan# 480

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

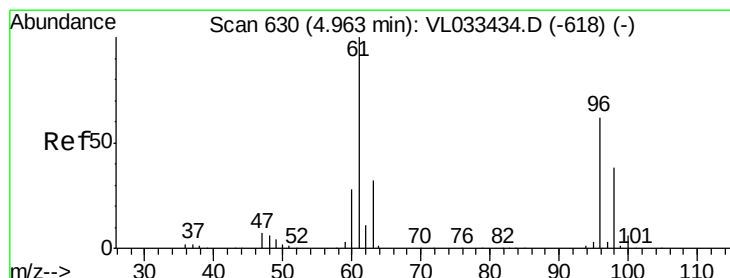
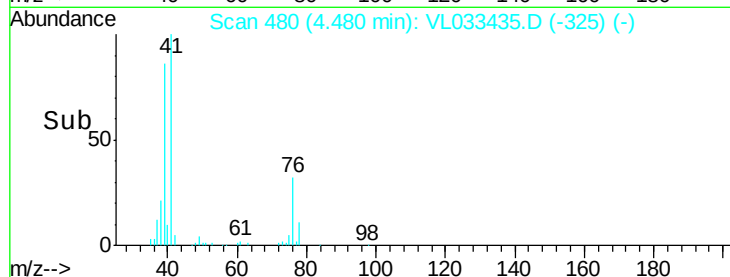
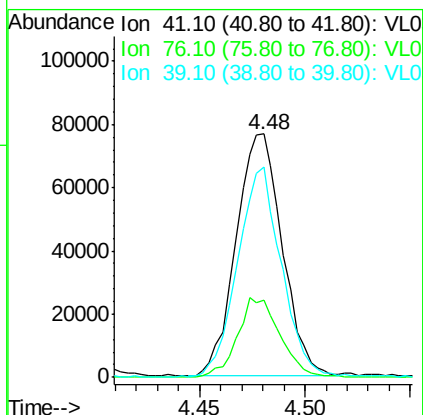
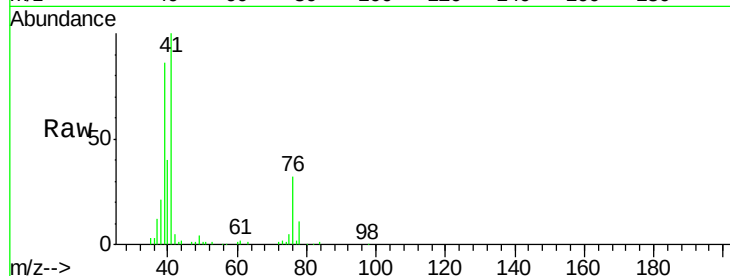
ClientSampleId :

VSTDIC002

Tot Ion:	41	Resp:	115789
Ion	Ratio	Lower	Upper
41	100		
76	30.4	25.0	37.4
39	83.9	65.9	98.9

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4/1/2019 1:22:42 AM



#22

trans-1,2-Dichloroethene

Concen: 2.131 ppbv

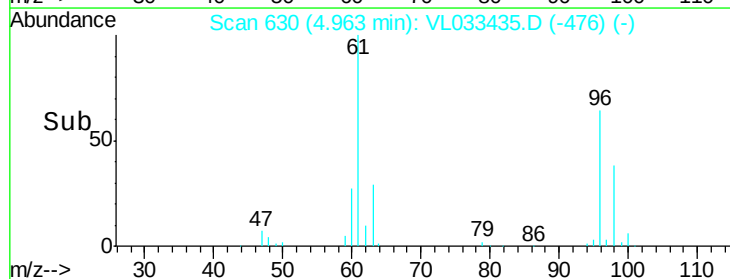
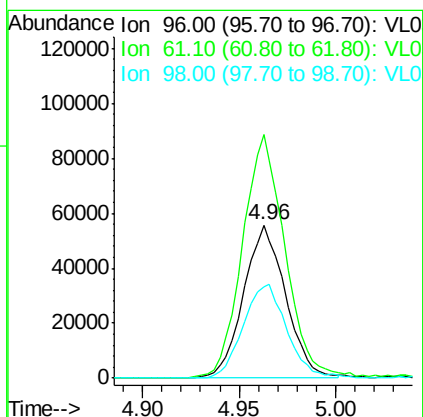
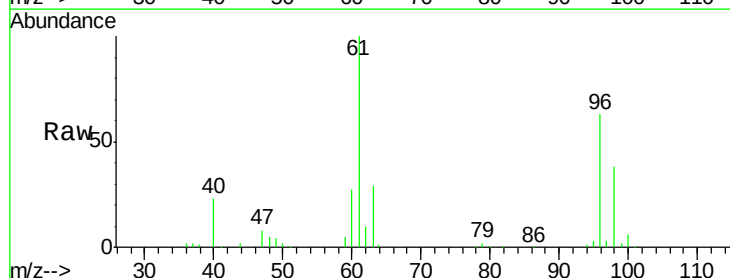
RT: 4.96 min Scan# 630

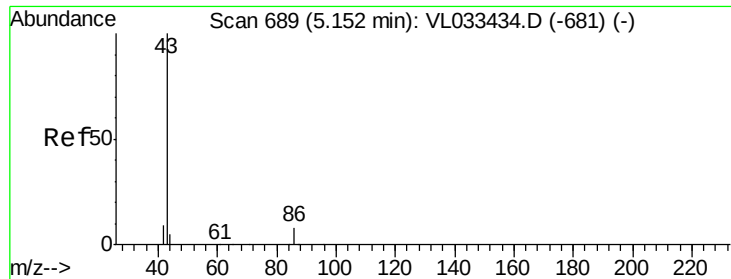
Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion:	96	Resp:	84374
Ion	Ratio	Lower	Upper
96	100		
61	158.5	130.0	195.0
98	59.9	50.0	75.0





#23

Vinyl Acetate

Concen: 1.932 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

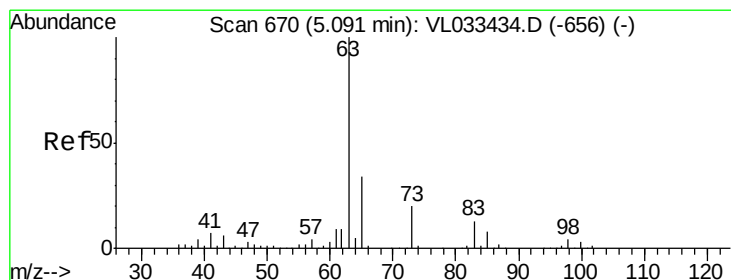
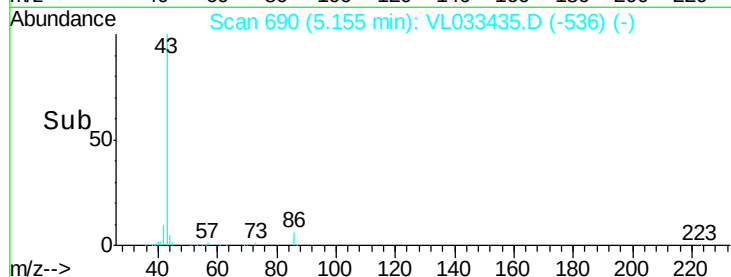
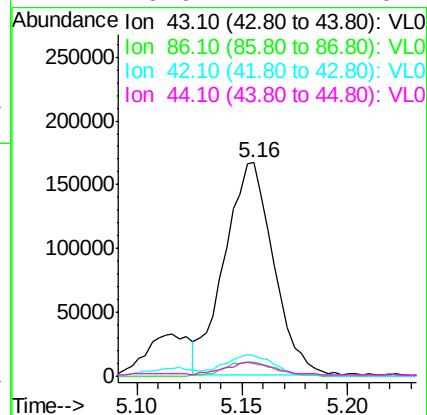
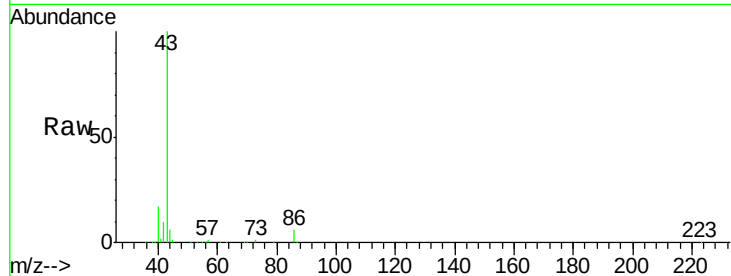
ClientSampleId :

VSTDIC002

Tot Ion	43	Resp	267257
Ion	Ratio	Lower	Upper
43	100		
86	6.4	6.2	9.2
42	9.7	8.1	12.1
44	5.9	4.1	6.1

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#24

1,1-Dichloroethane

Concen: 2.030 ppbv

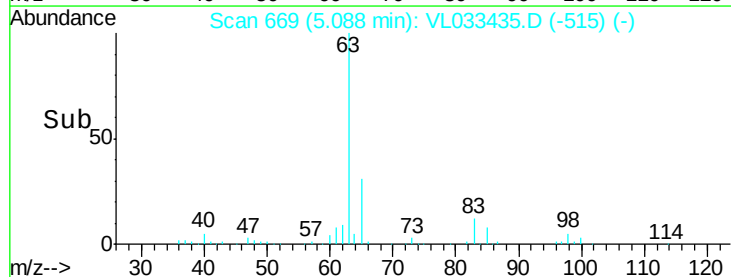
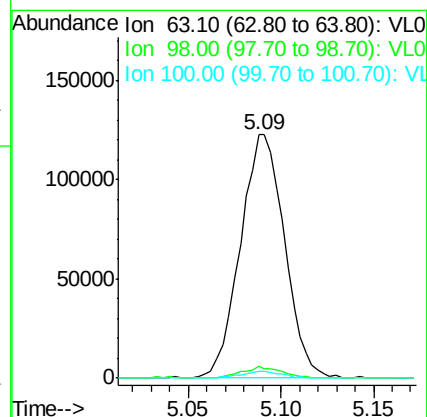
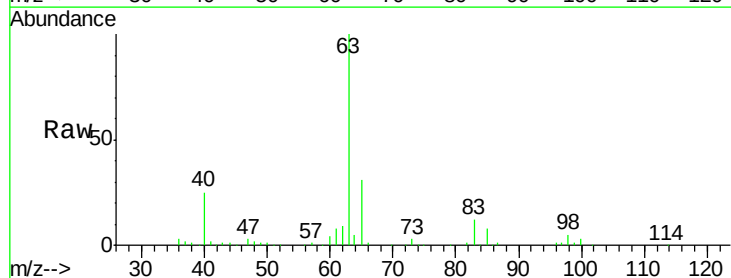
RT: 5.09 min Scan# 669

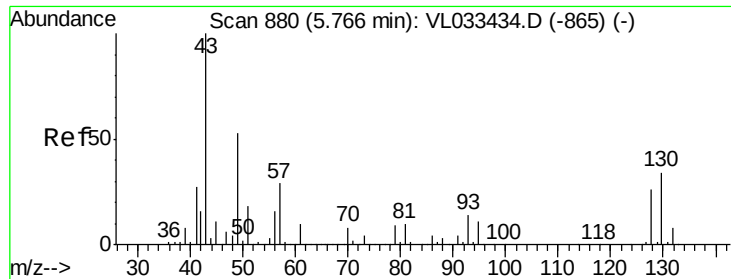
Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion	63	Resp	202824
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.4	7.1
100	2.6	1.3	3.8





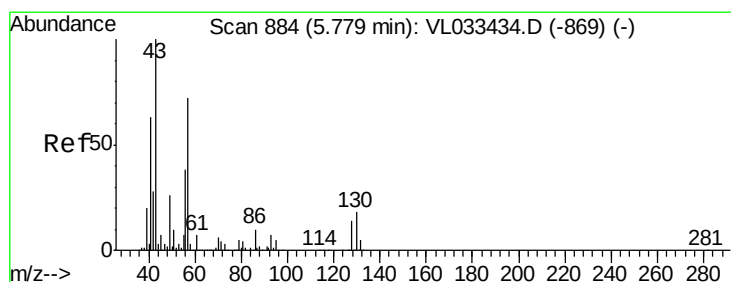
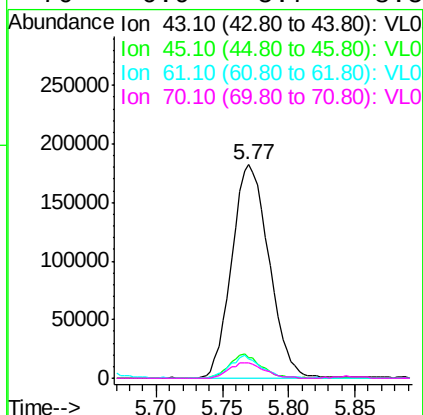
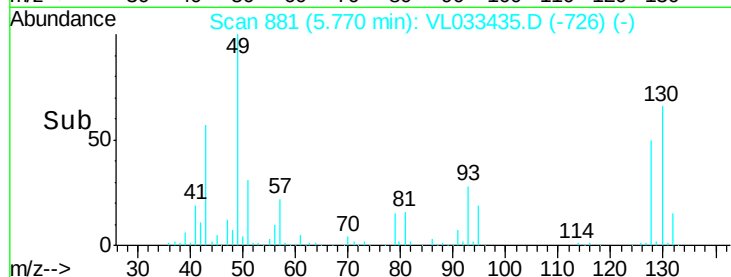
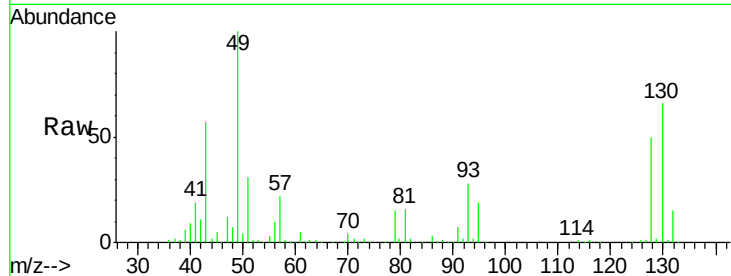
#25
Ethyl Acetate
Concen: 2.049 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.7	7.9	11.9		
61	9.0	7.4	11.2		
70	6.9	5.7	8.5		

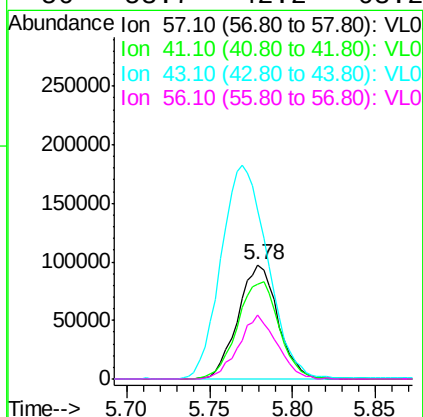
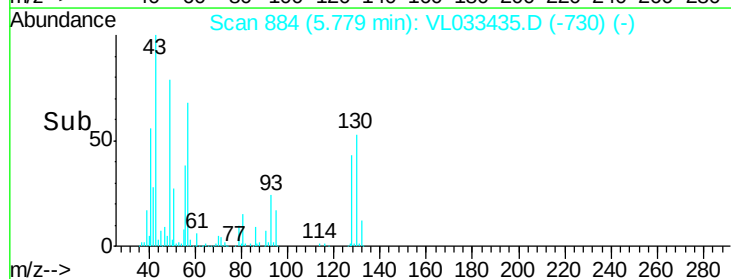
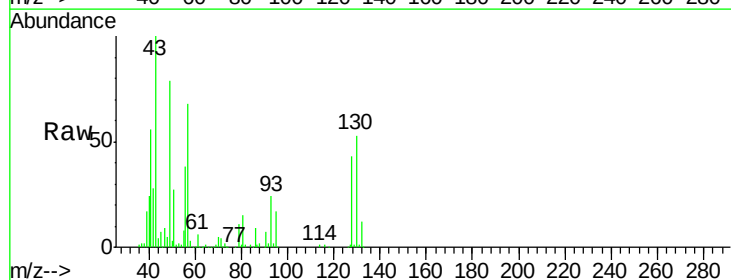
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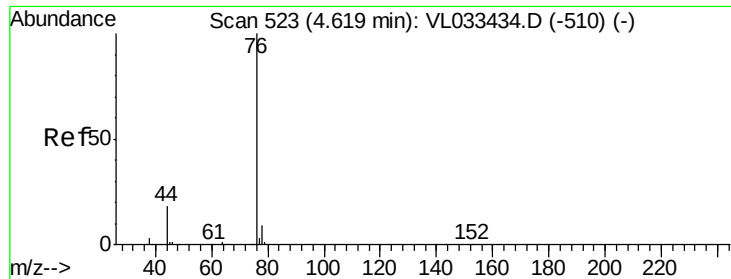
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#26
Hexane
Concen: 2.093 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	90.3	70.5	105.7		
43	222.9	181.8	272.8		
56	53.7	42.2	63.2		





#27

Carbon Disulfide

Concen: 2.046 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

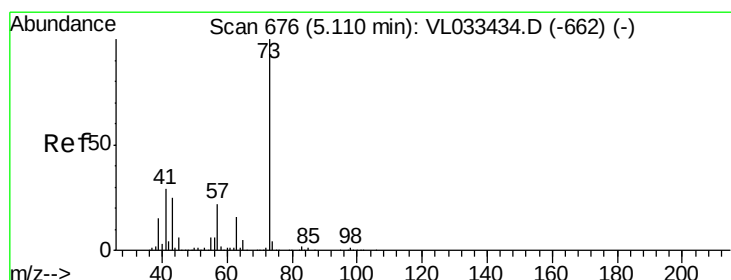
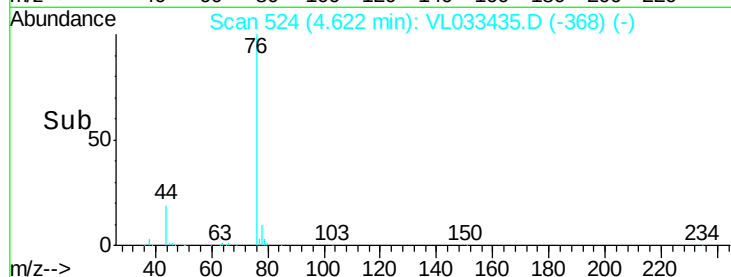
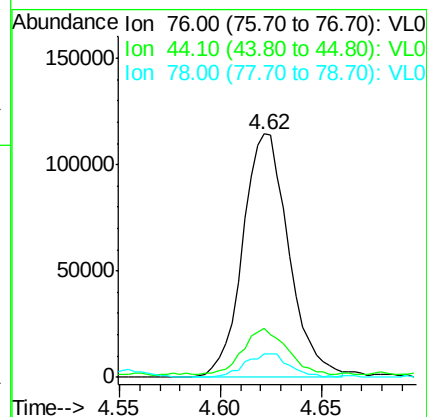
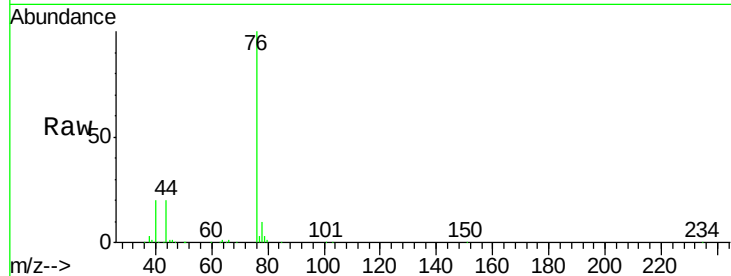
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	182998
Ion	Ratio	Lower	Upper
76	100		
44	18.9	15.2	22.8
78	10.0	7.2	10.8

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 1.990 ppbv

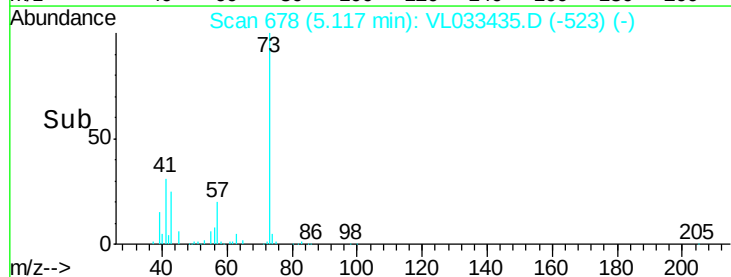
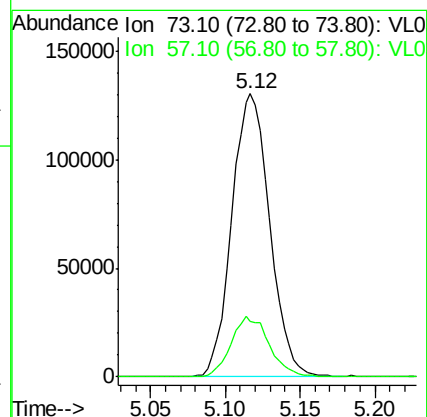
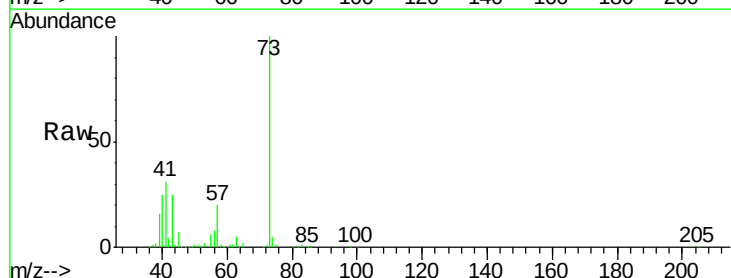
RT: 5.12 min Scan# 678

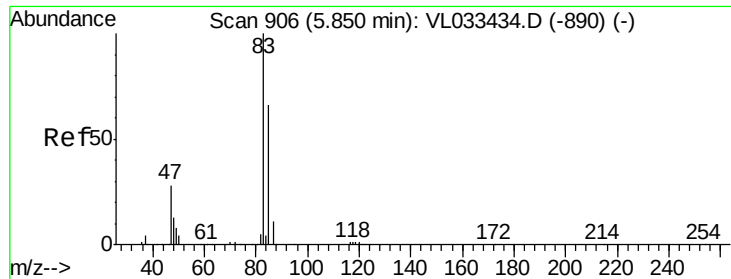
Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion:	73	Resp:	229688
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.0





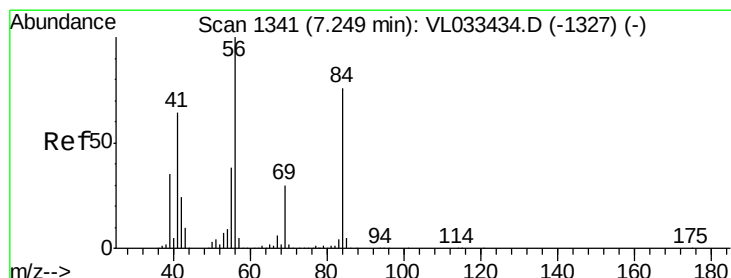
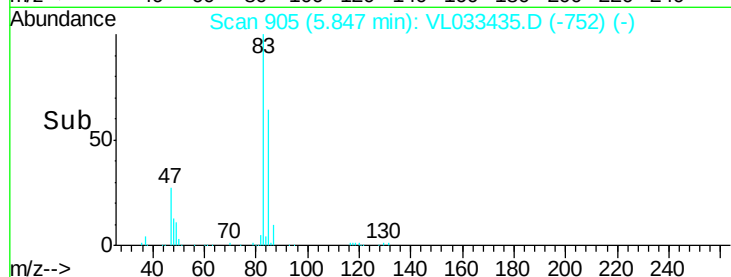
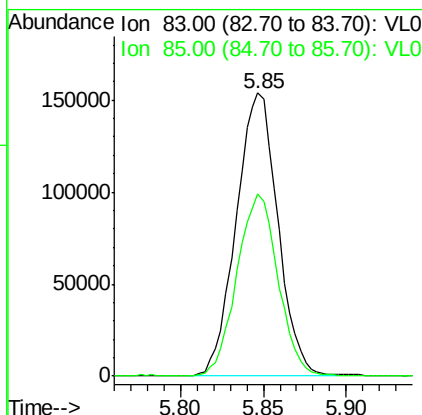
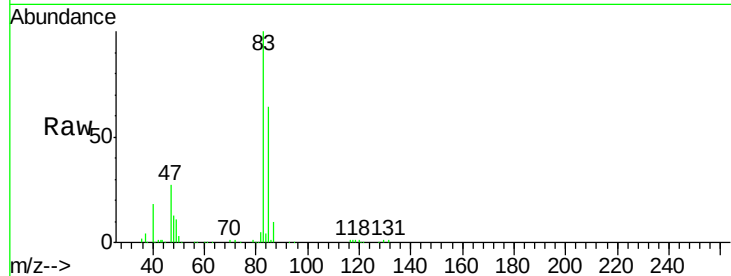
#29
Chloroform
Concen: 2.118 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	269499
Ion Ratio	100	Lower	Upper
85	64.2	52.0	78.0

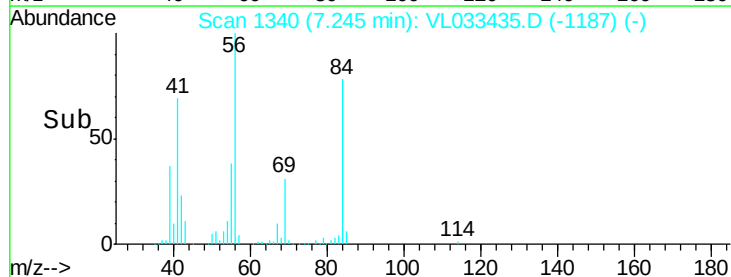
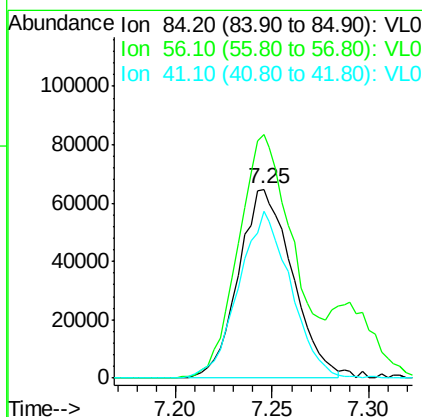
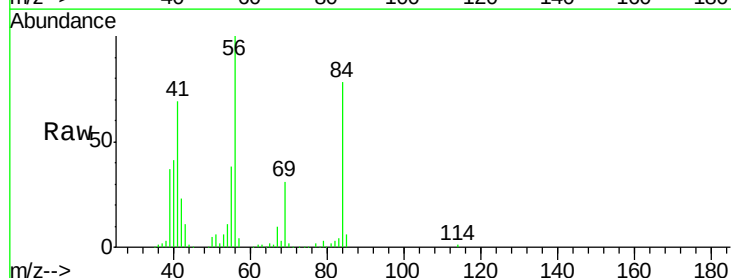
Manual Integrations
APPROVED

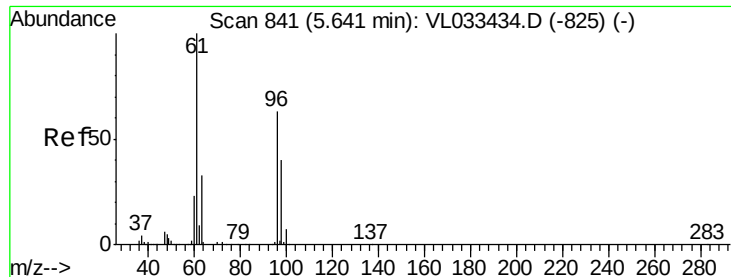
MMDadoda
4/1/2019 1:22:42 AM



#30
Cyclohexane
Concen: 2.006 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	84	Resp	124935
Ion Ratio	100	Lower	Upper
56	164.6	111.3	166.9
41	85.8	69.6	104.4





#31

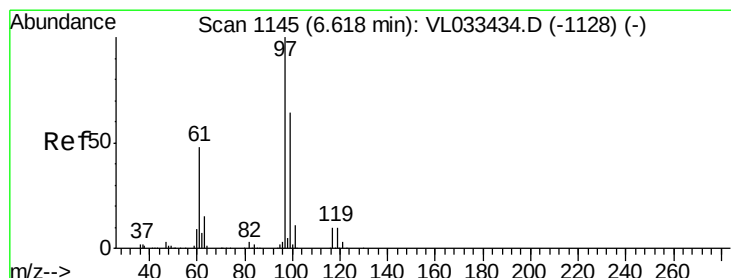
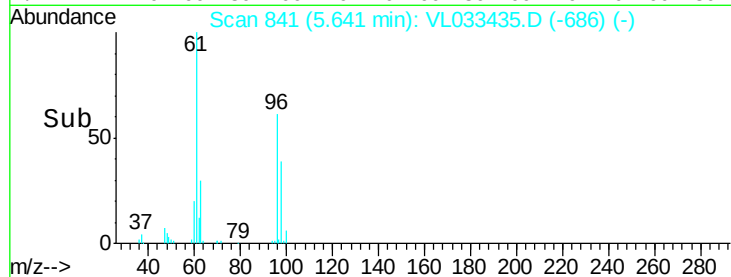
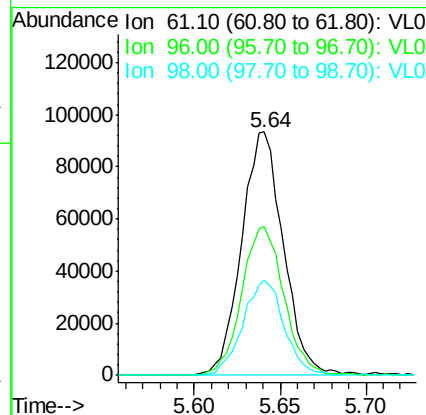
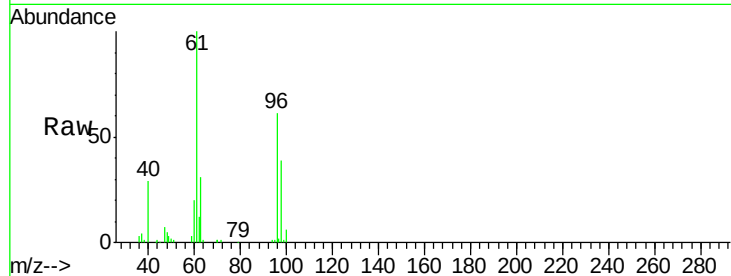
cis-1,2-Dichloroethene
 Concen: 2.025 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	61	Resp	157313
Ion Ratio	Lower	Upper	
61	100		
96	61.0	50.3	75.5
98	39.1	31.5	47.3

Manual Integrations
 APPROVED

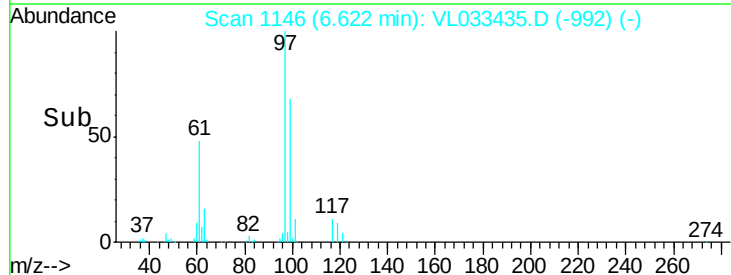
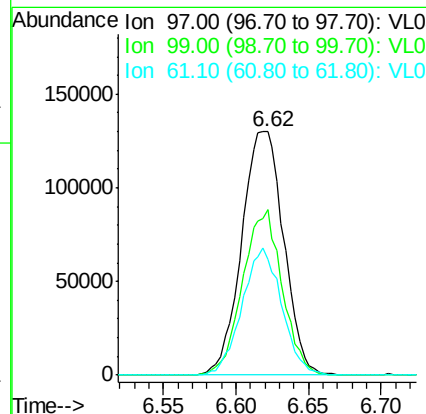
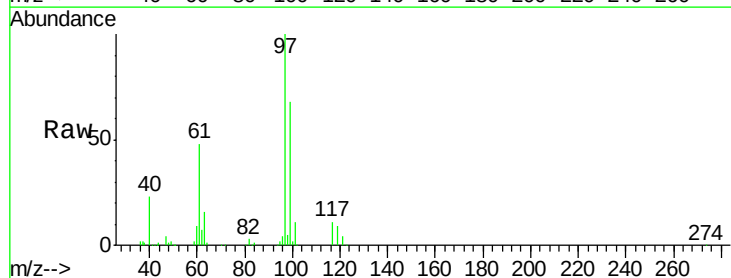
MMDadoda
 4/1/2019 1:22:42 AM

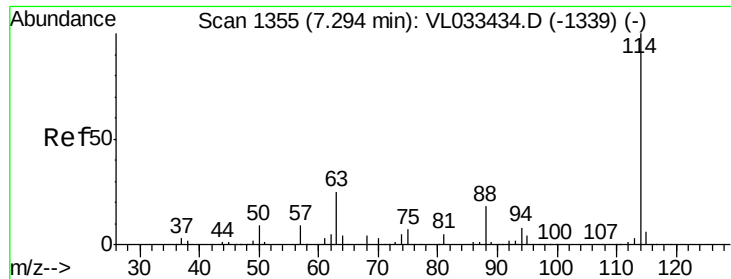


#32

1,1,1-Trichloroethane
 Concen: 2.103 ppbv
 RT: 6.62 min Scan# 1146
 Delta R.T. -0.00 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Tgt Ion	97	Resp	262692
Ion Ratio	Lower	Upper	
97	100		
99	63.8	51.0	76.6
61	49.2	39.3	58.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:114 Resp: 1844603

Ion Ratio Lower Upper

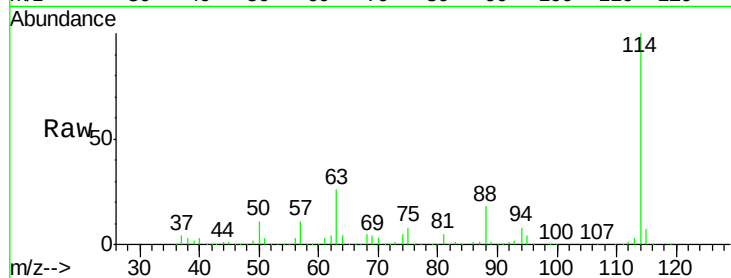
114 100

63 26.2 21.4 32.2

88 18.0 14.5 21.7

Manual Integrations
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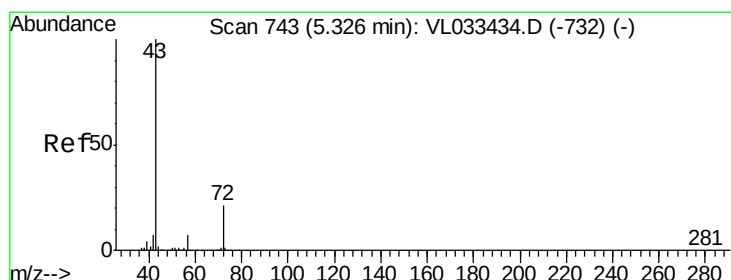
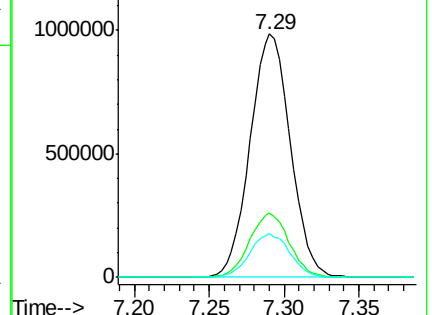
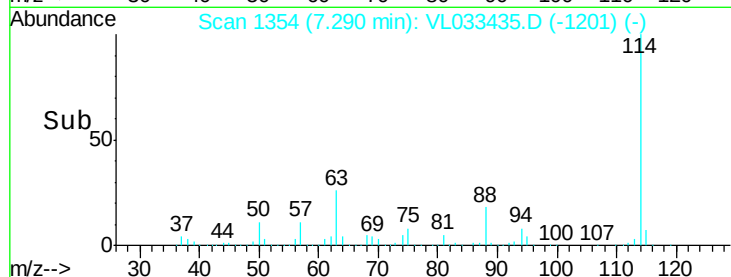
MMDadoda
4/1/2019 1:22:42 AM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.858 ppbv

RT: 5.33 min Scan# 744

Delta R.T. -0.00 min

Lab File: VL033435.D

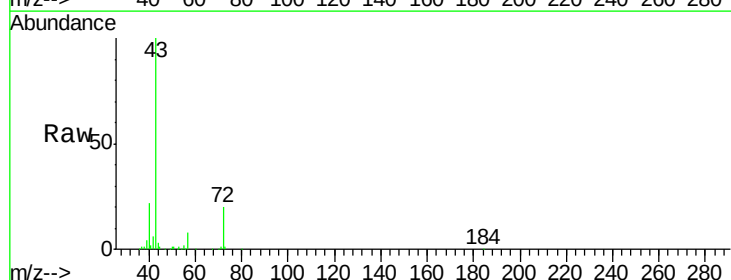
Acq: 25 Mar 2019 11:09

Tgt Ion: 43 Resp: 225125

Ion Ratio Lower Upper

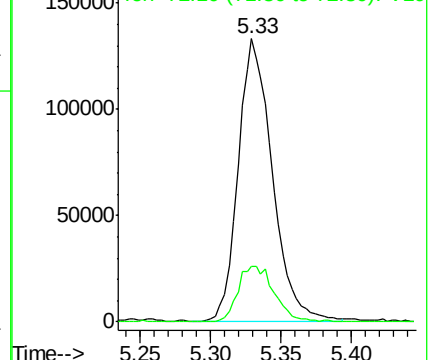
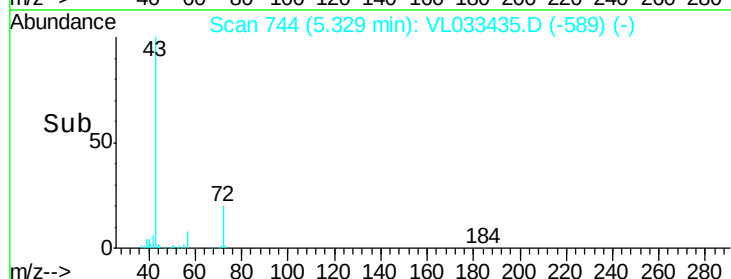
43 100

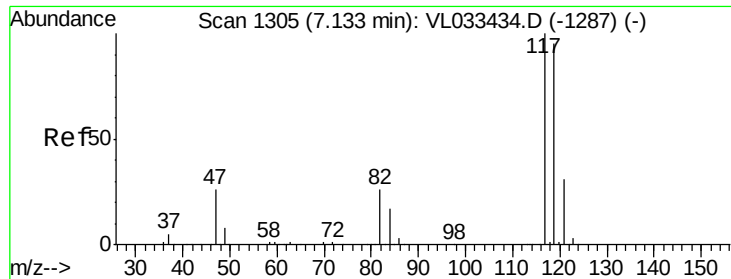
72 21.1 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





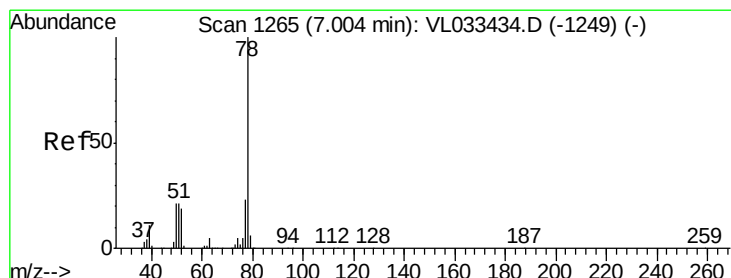
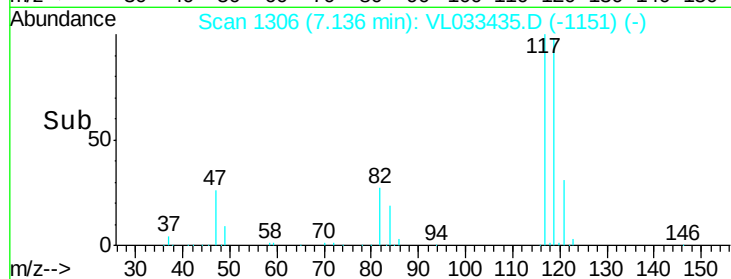
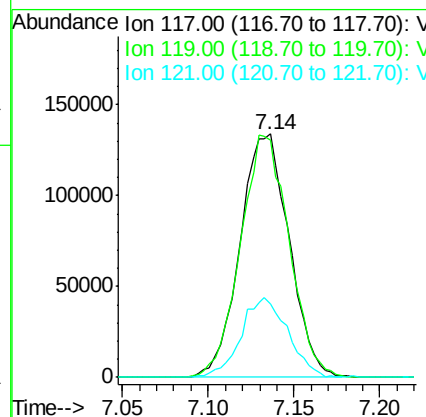
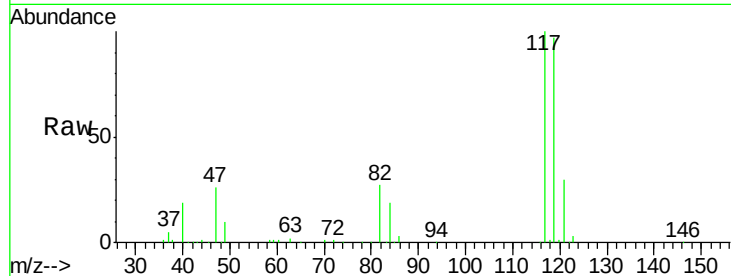
#35
Carbon Tetrachloride
Concen: 2.040 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:	117	Resp:	265331
Ion Ratio	Lower	Upper	
117	100		
119	96.7	77.4	116.0
121	30.0	24.9	37.3

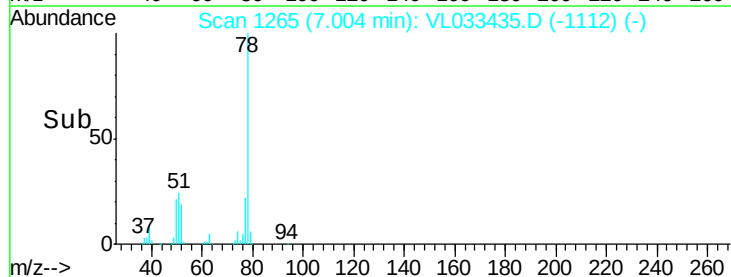
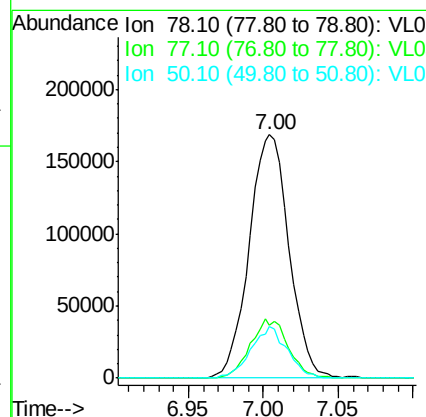
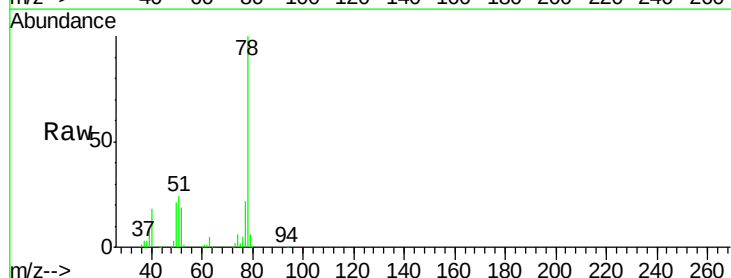
Manual Integrations
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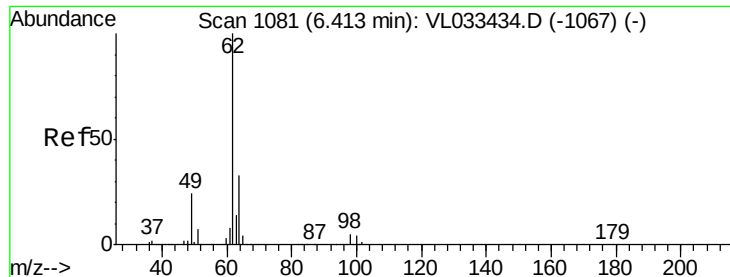
MMDadoda
4/1/2019 1:22:42 AM



#36
Benzene
Concen: 1.888 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion:	78	Resp:	311732
Ion Ratio	Lower	Upper	
78	100		
77	21.7	18.1	27.1
50	21.4	15.2	22.8





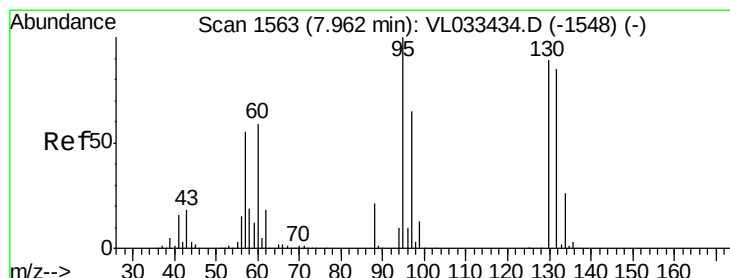
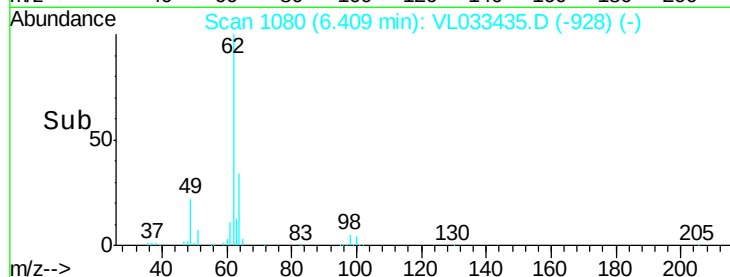
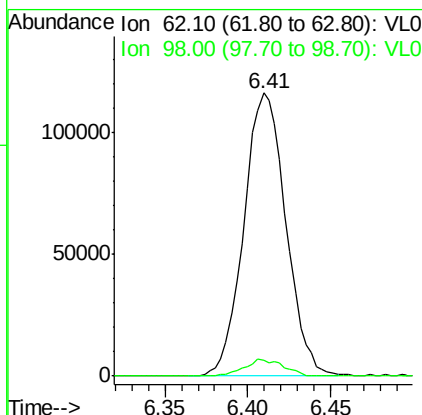
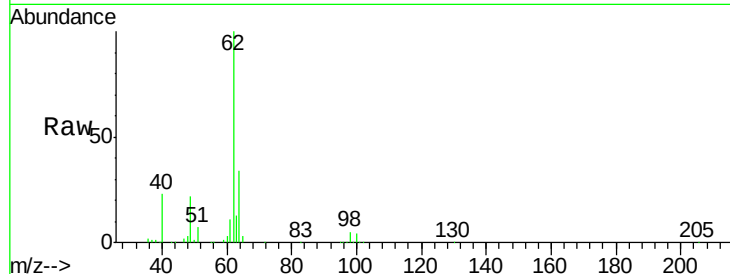
#37
 1,2-Dichloroethane
 Concen: 1.955 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
62	100	204057		
98	5.7	4.5	6.7	

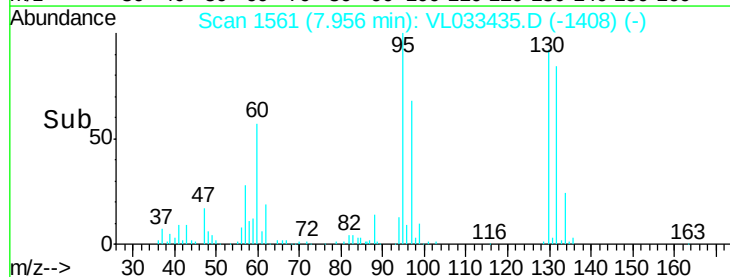
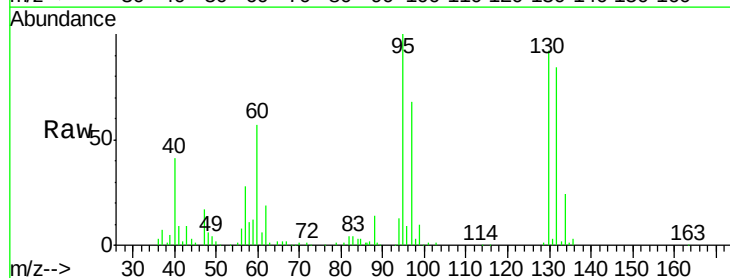
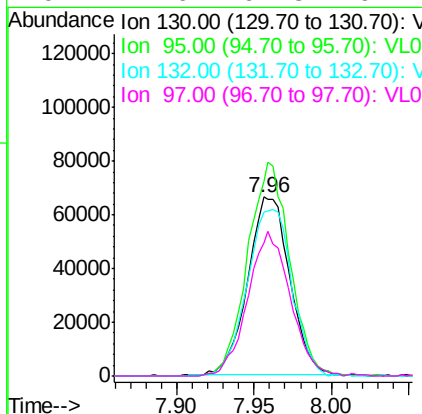
Manual Integrations
 APPROVED

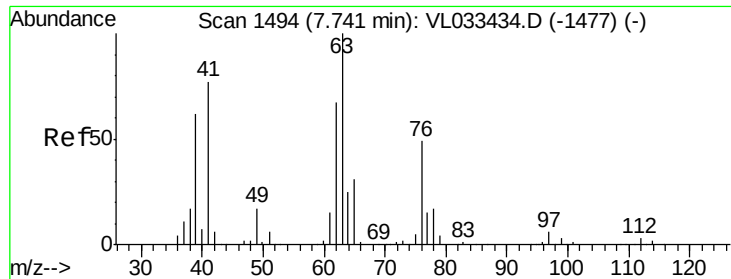
MMDadoda
 4/1/2019 1:22:42 AM



#38
 Trichloroethene
 Concen: 2.012 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	125660		
95	109.3	95.2	142.8	
132	91.9	77.7	116.5	
97	74.6	62.8	94.2	





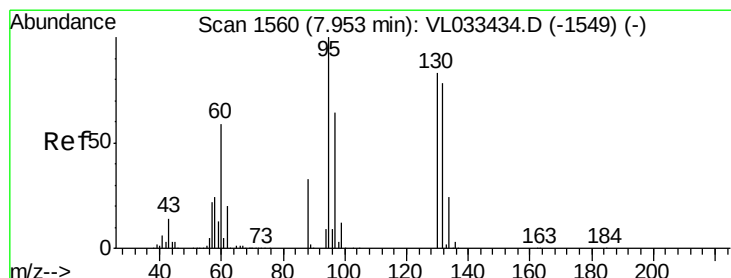
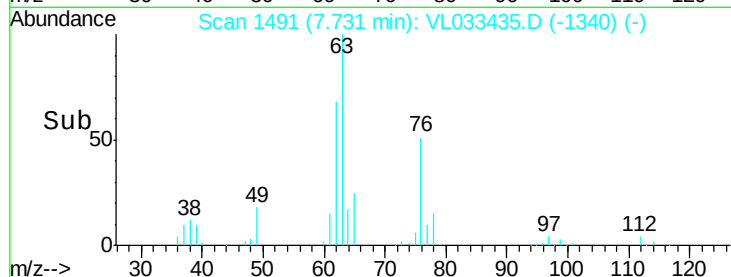
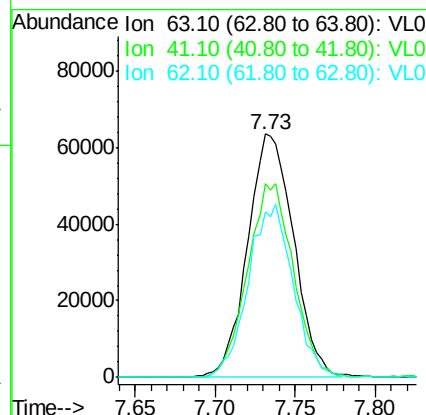
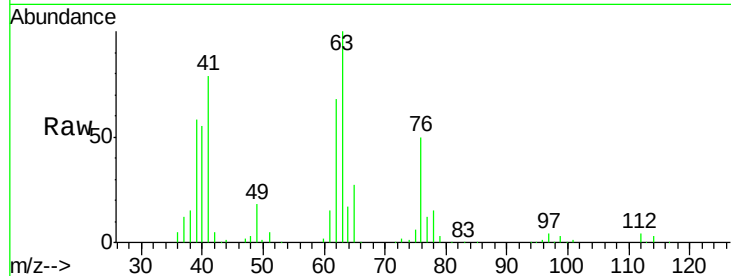
#39
 1,2-Dichloropropane
 Concen: 2.017 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.5	59.5	89.3
62	67.9	54.7	82.1

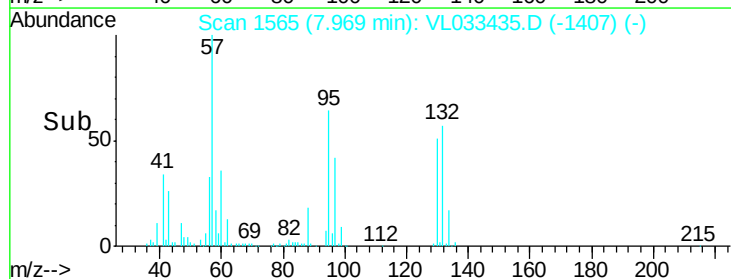
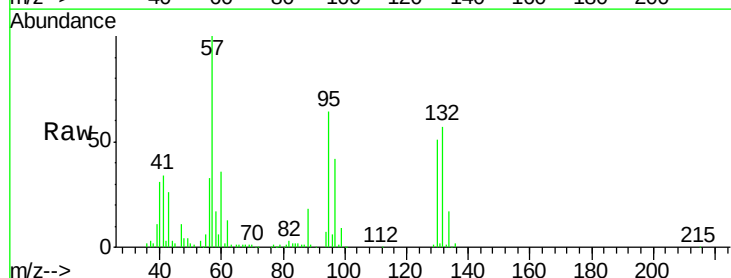
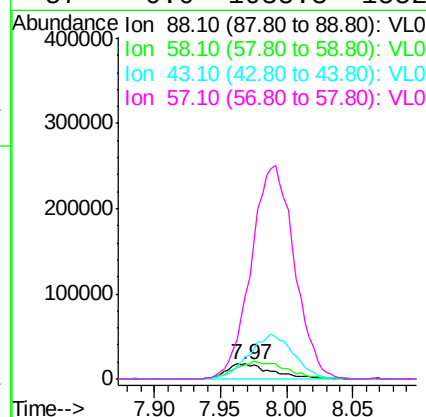
Manual Integrations
 APPROVED

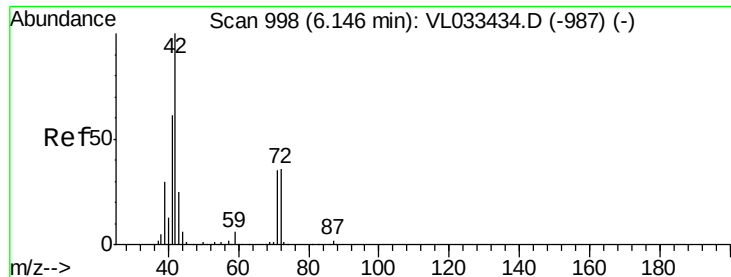
MMDadoda
 4/1/2019 1:22:42 AM



#40
 1,4-Dioxane
 Concen: 1.993 ppbv m
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.9	161.9#
43	0.0	230.8	346.2#
57	0.0	1035.3	1552.9#





#41

Tetrahydrofuran

Concen: 1.894 ppbv

RT: 6.16 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

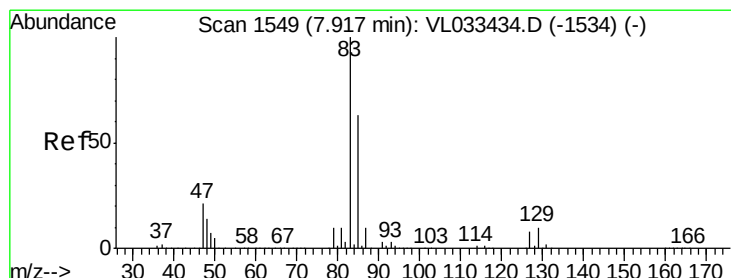
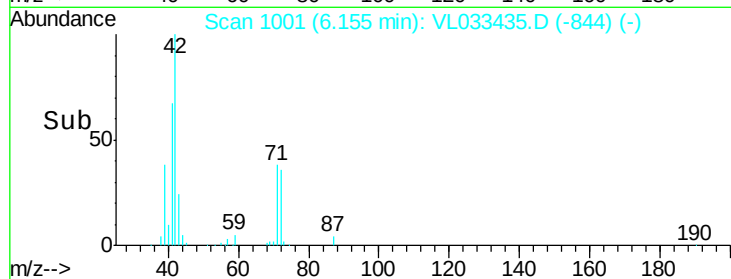
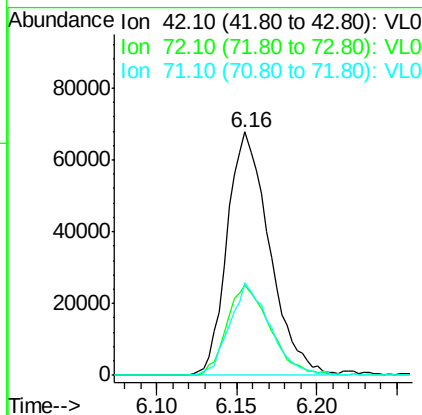
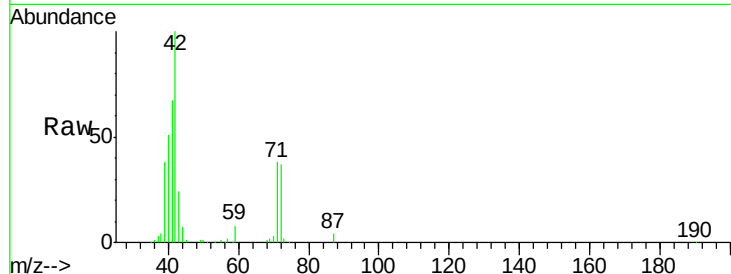
ClientSampleId :

VSTDIC002

Tot Ion:	42	Resp:	122430
Ion	Ratio	Lower	Upper
42	100		
72	37.9	31.6	47.4
71	36.4	29.9	44.9

Manual Integrations
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MMDadoda
4/1/2019 1:22:42 AM



#42

Bromodichloromethane

Concen: 2.039 ppbv

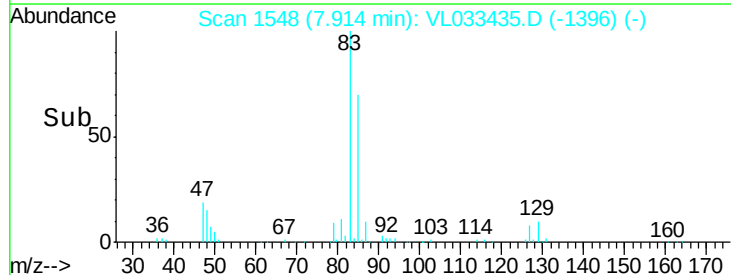
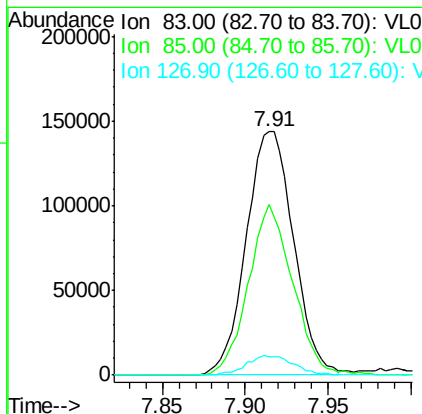
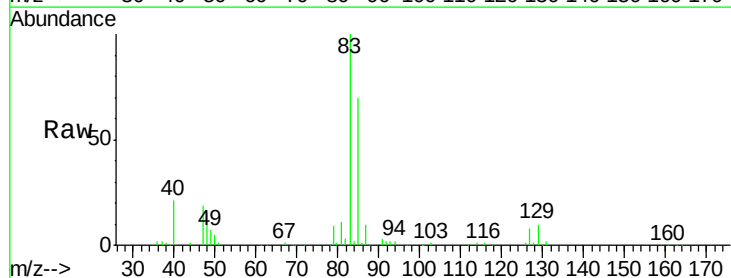
RT: 7.91 min Scan# 1548

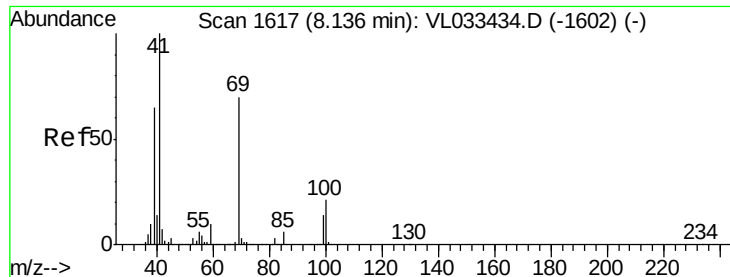
Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion:	83	Resp:	285294
Ion	Ratio	Lower	Upper
83	100		
85	70.3	51.8	77.6
127	7.7	6.2	9.2





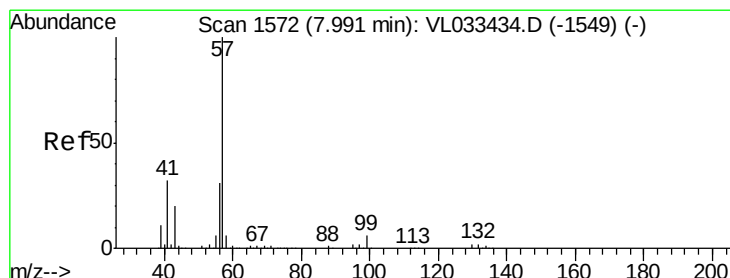
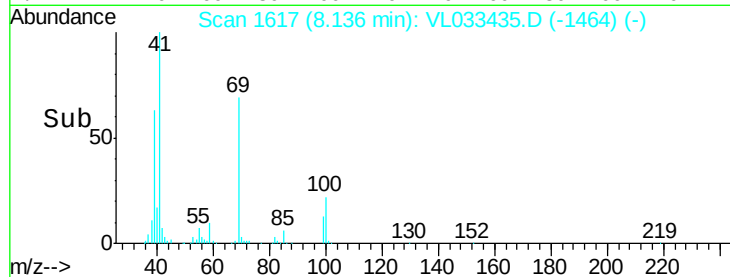
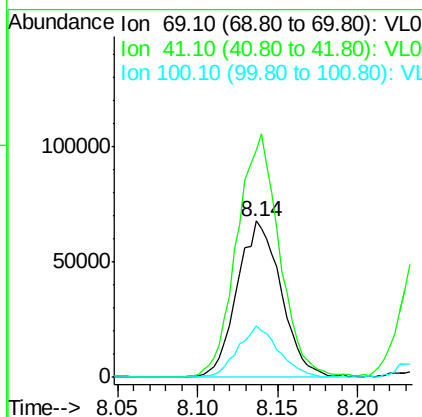
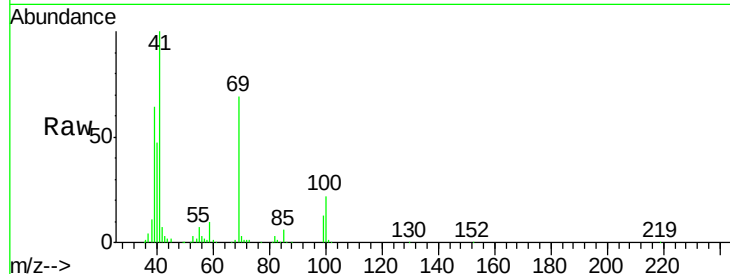
#43
Methyl Methacrylate
Concen: 1.979 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.9	119.5	179.3
100	30.6	24.4	36.6

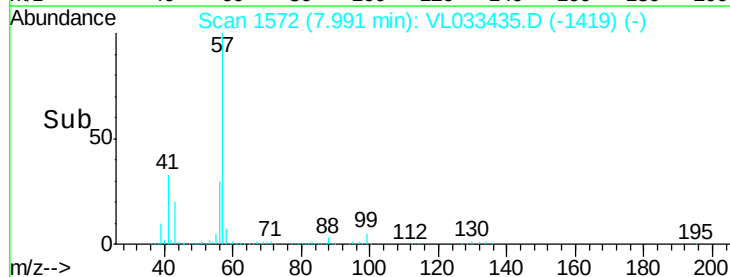
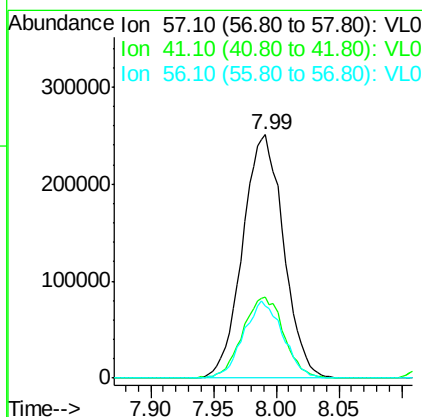
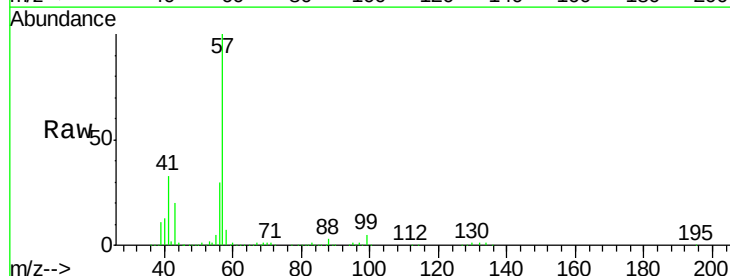
Manual Integrations
APPROVED

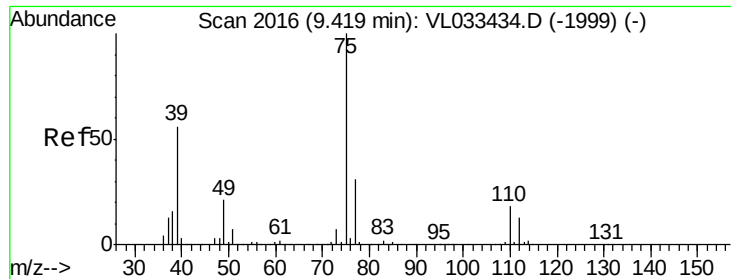
MMDadoda
4/1/2019 1:22:42 AM



#44
2,2,4-Trimethylpentane
Concen: 2.078 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.5	26.0	39.0
56	30.5	24.6	36.8





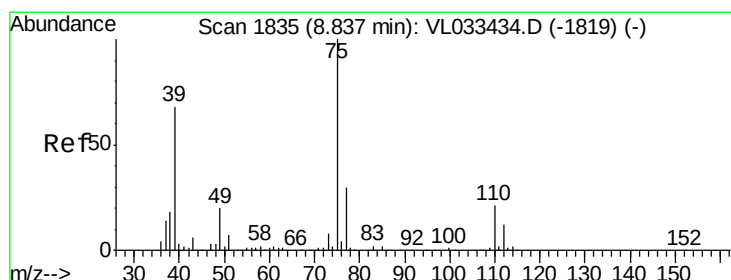
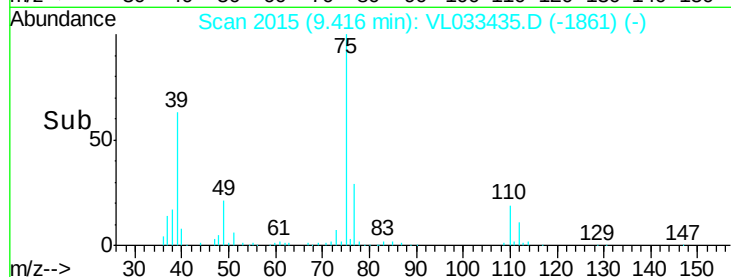
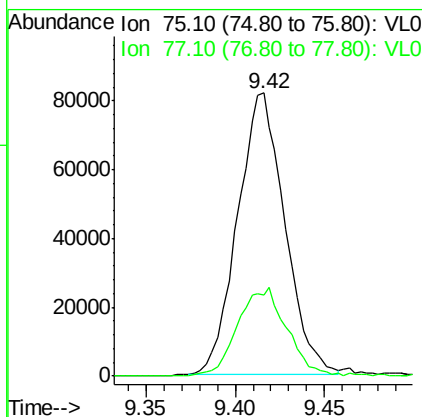
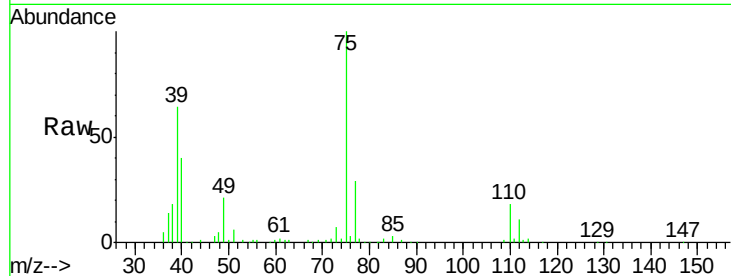
#45
t-1,3-Dichloropropene
Concen: 1.911 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
75	100		
77	28.7	25.5	38.3

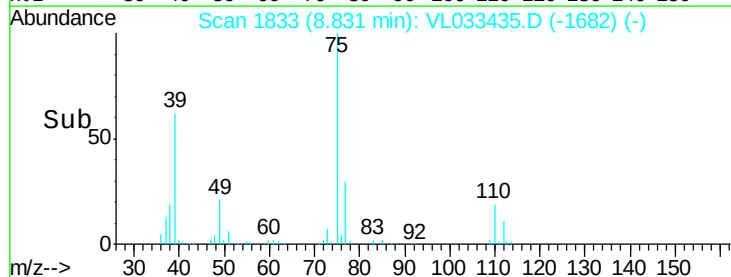
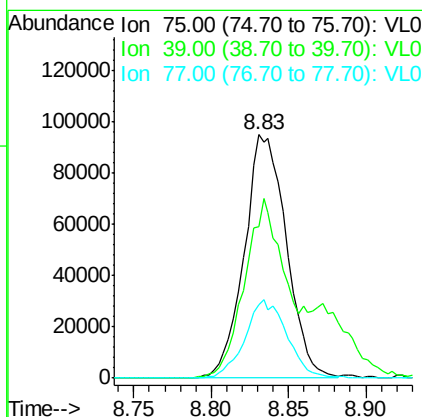
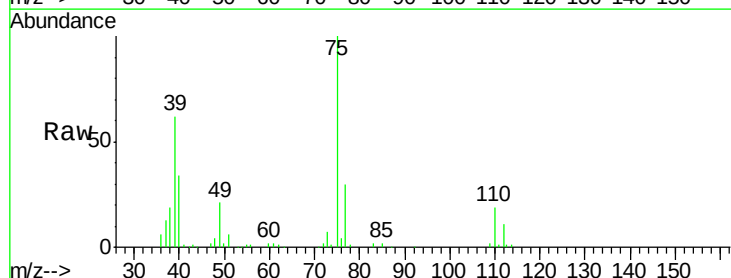
Manual Integrations
APPROVED

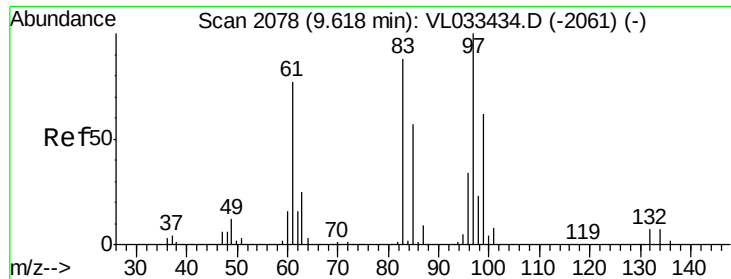
MMDadoda
4/1/2019 1:22:42 AM



#46
cis-1,3-Dichloropropene
Concen: 1.930 ppbv
RT: 8.83 min Scan# 1833
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
75	100		
39	62.4	55.0	82.6
77	30.3	24.5	36.7





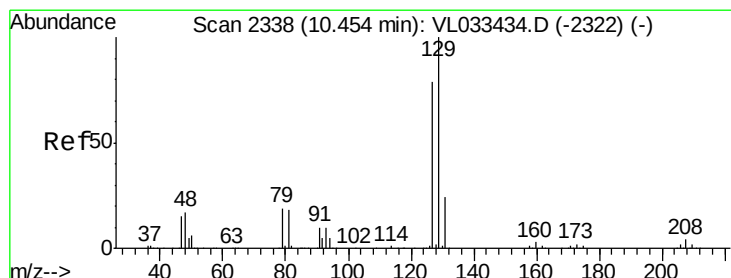
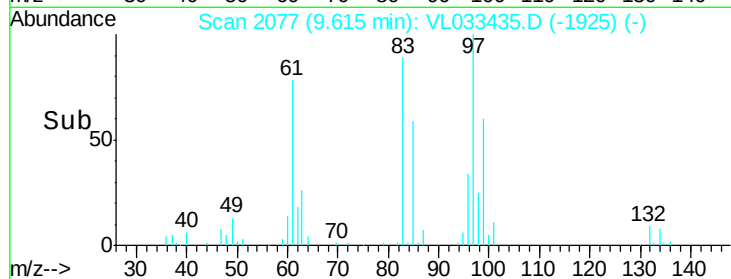
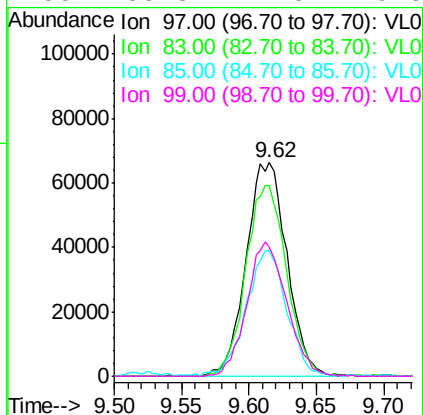
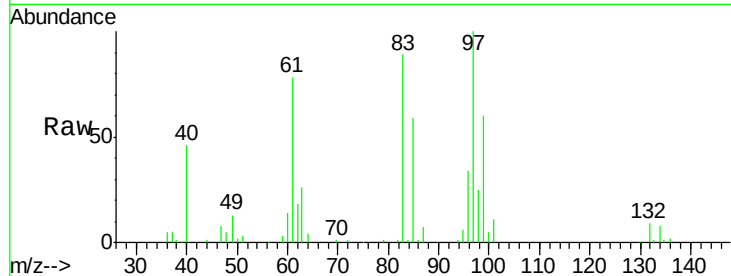
#47
 1,1,2-Trichloroethane
 Concen: 2.047 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tot Ion:	97	Resp:	139837
Ion Ratio	Lower	Upper	
97	100		
83	89.5	67.4	101.0
85	59.0	43.0	64.4
99	60.3	47.0	70.6

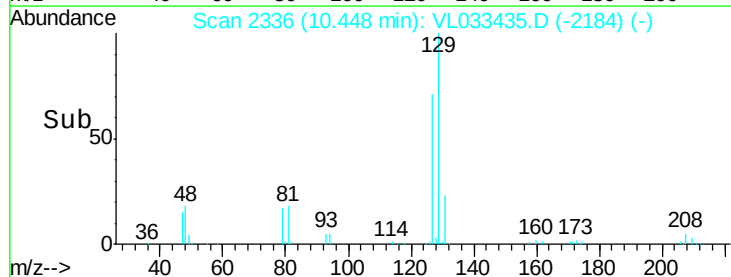
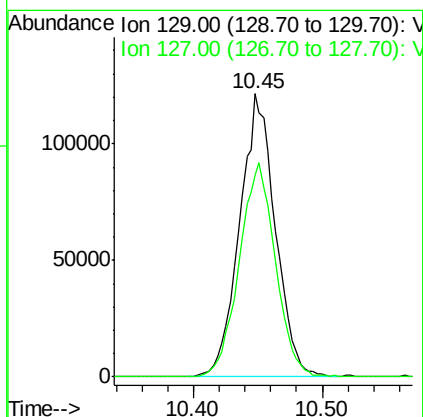
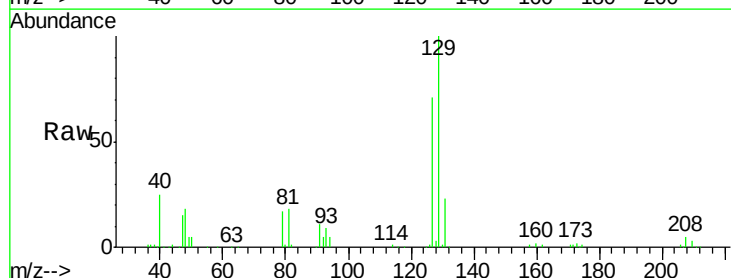
Manual Integrations
 APPROVED

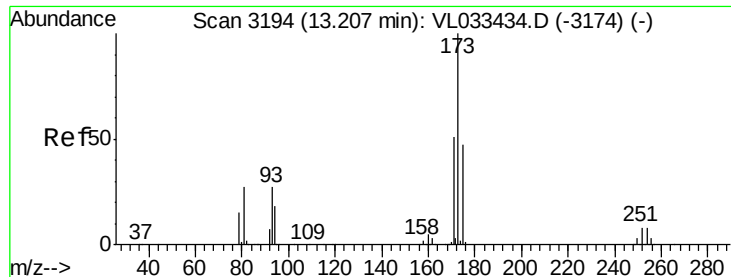
MMDadoda
 4/1/2019 1:22:42 AM



#48
 Dibromochloromethane
 Concen: 2.033 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Tgt Ion:	129	Resp:	232870
Ion Ratio	Lower	Upper	
129	100		
127	76.7	38.9	116.6





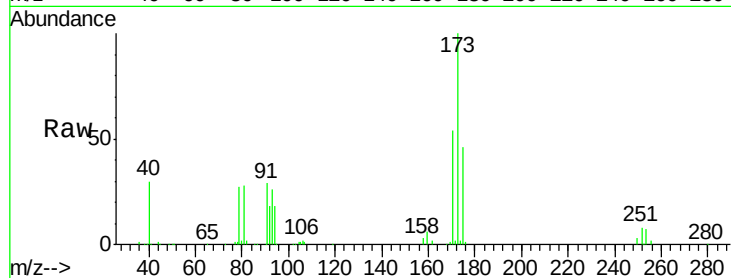
#49
Bromoform
Concen: 1.911 ppbv
RT: 13.20 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

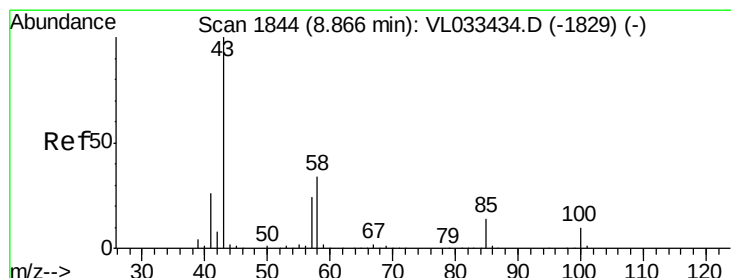
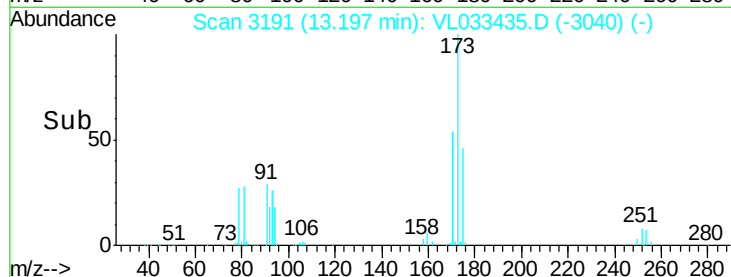
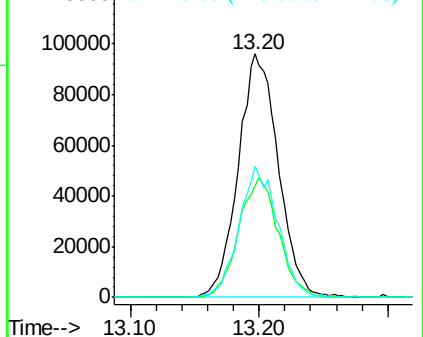
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	39.0	58.6
171	52.2	41.7	62.5

Manual Integrations
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MMDadoda
4/1/2019 1:22:42 AM

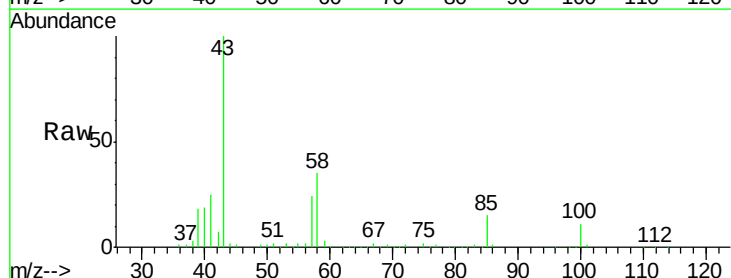


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

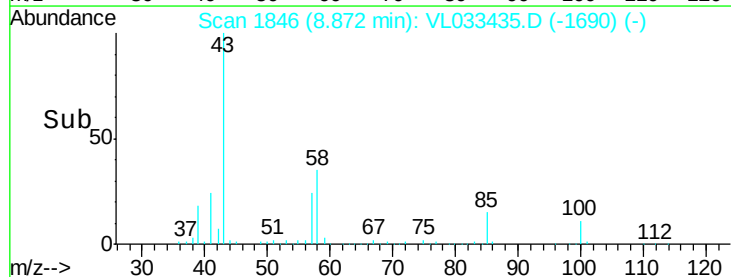
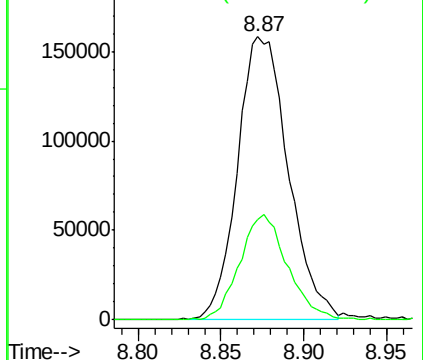


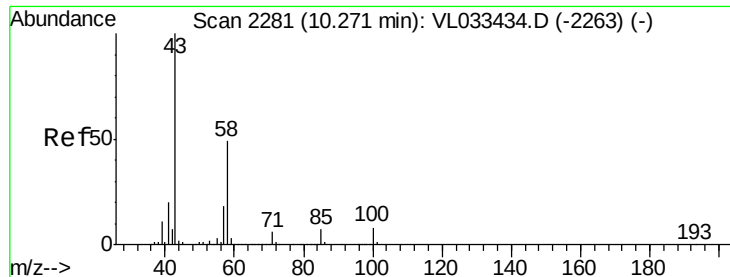
#50
4-Methyl-2-Pentanone
Concen: 1.957 ppbv
RT: 8.87 min Scan# 1846
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.6	28.4	42.6



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





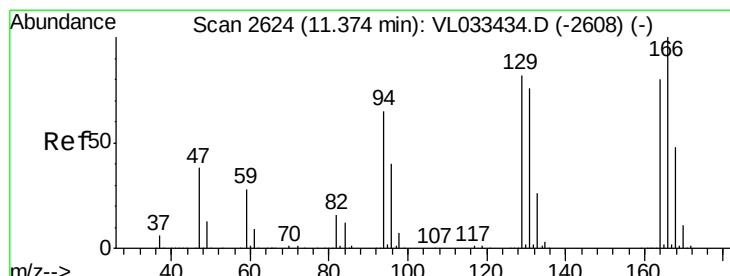
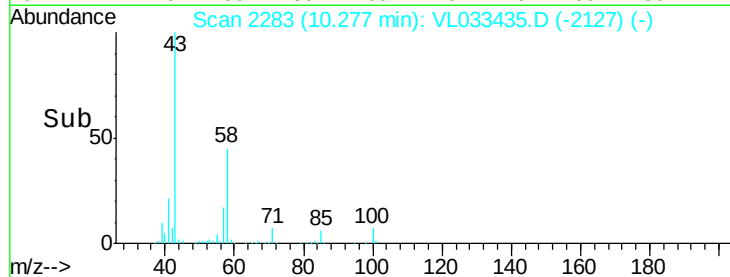
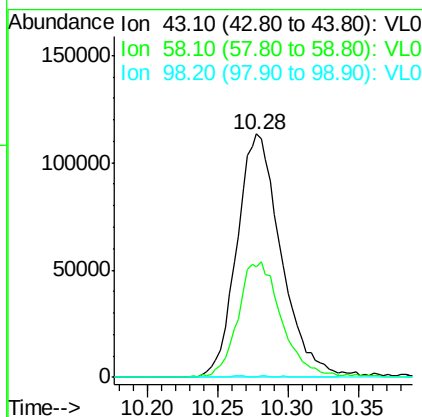
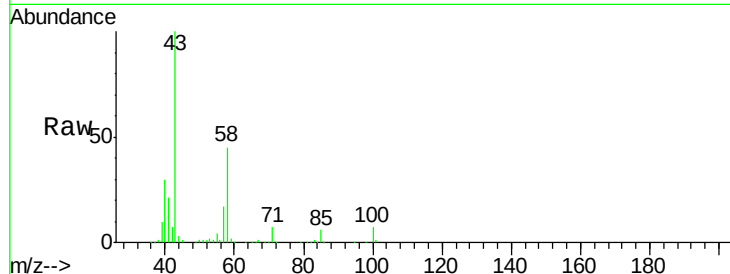
#51
2-Hexanone
Concen: 1.878 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. 0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.7	38.0	57.0
98	0.7	0.1	0.1#

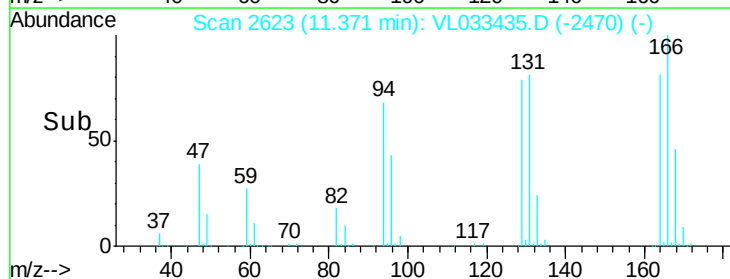
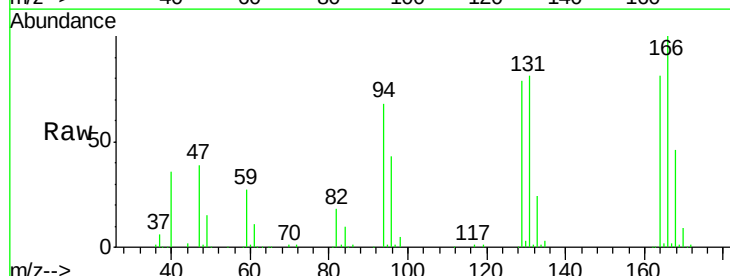
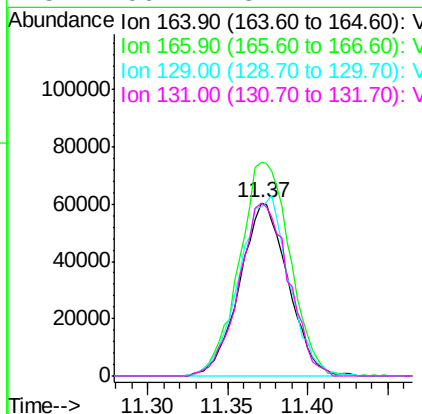
Manual Integrations
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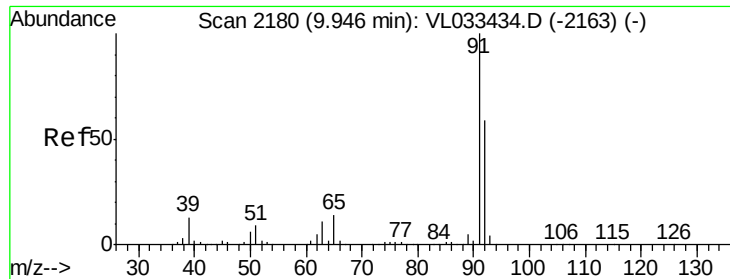
MMDadoda
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#52
Tetrachloroethene
Concen: 1.809 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.0	101.5	152.3
129	97.0	82.2	123.2
131	100.2	81.1	121.7





#53

Toluene

Concen: 1.982 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 371711

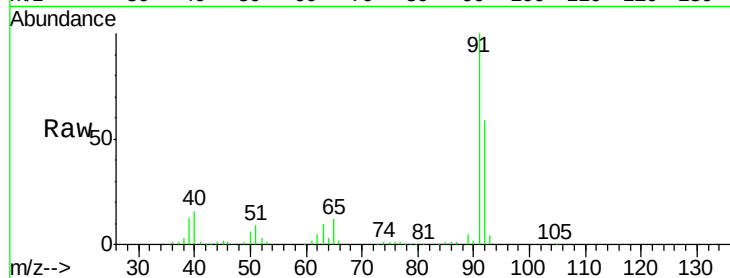
Ion Ratio Lower Upper

91 100

92 59.7 47.4 71.0

Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.95

200000

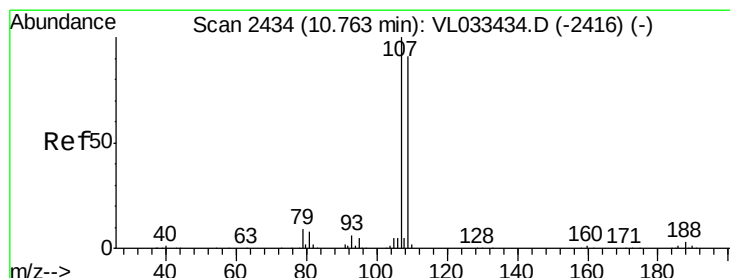
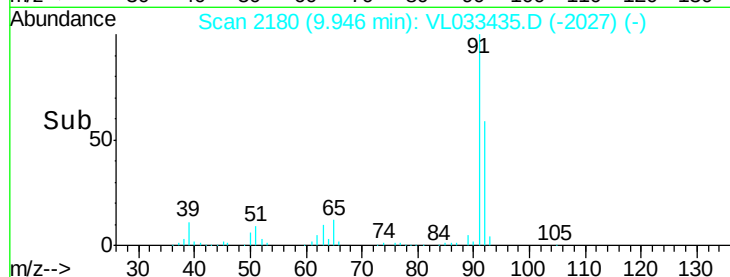
150000

100000

50000

0

Time-->



#54

1,2-Dibromoethane

Concen: 1.853 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033435.D

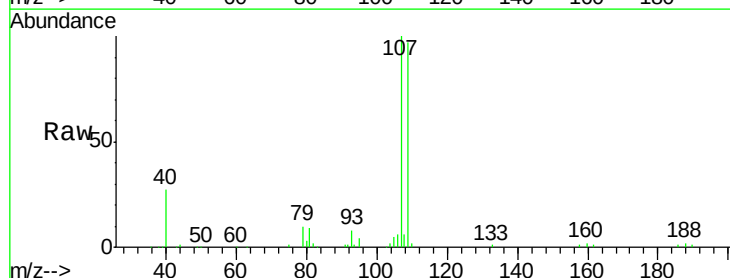
Acq: 25 Mar 2019 11:09

Tgt Ion: 107 Resp: 213983

Ion Ratio Lower Upper

107 100

109 97.0 77.2 115.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.76

120000

100000

80000

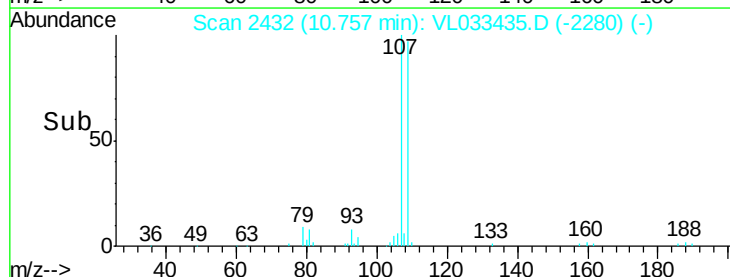
60000

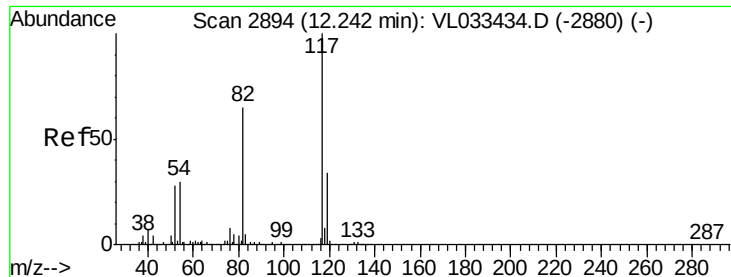
40000

20000

0

Time-->





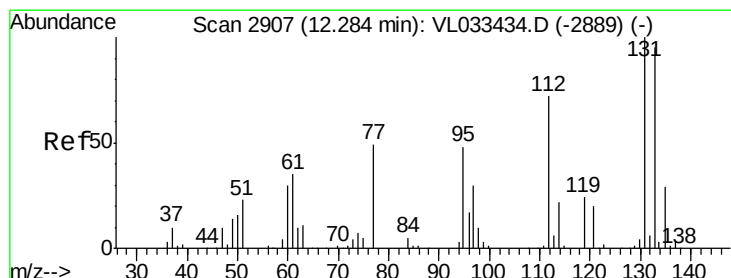
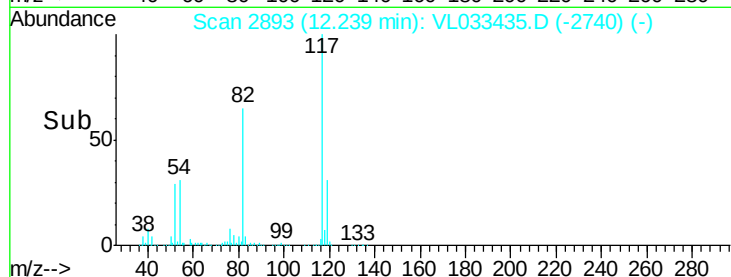
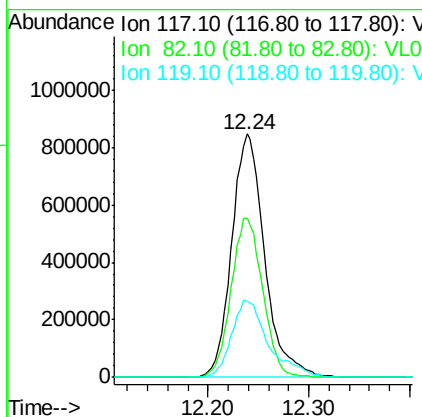
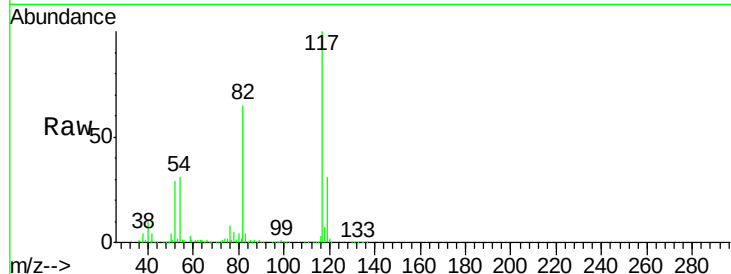
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.9	53.4	80.2
119	35.7	27.3	40.9

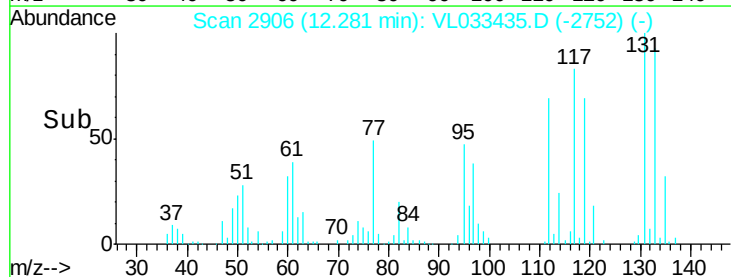
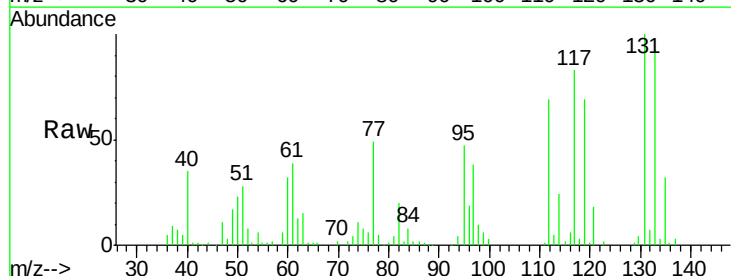
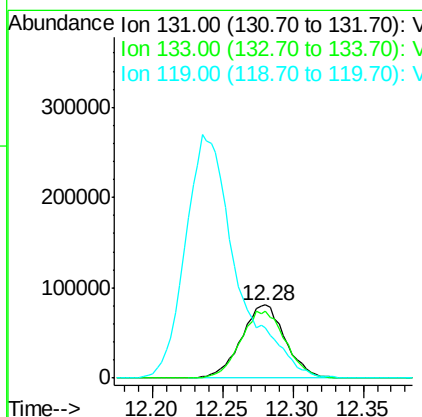
Manual Integrations
APPROVED

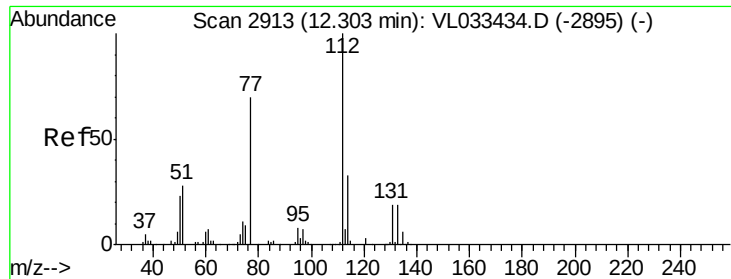
MMDadoda
4/1/2019 1:22:42 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.059 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.6	76.7	115.1
119	387.2	40.3	60.5#





#57

Chlorobenzene

Concen: 2.014 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

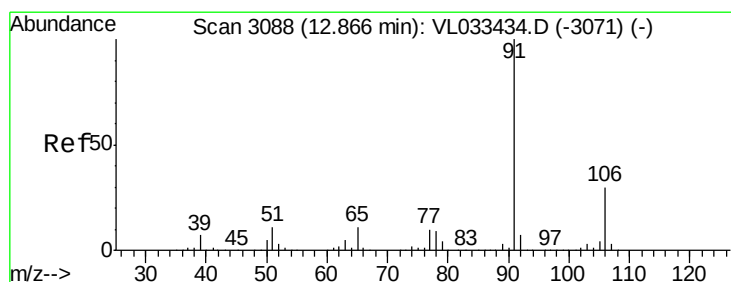
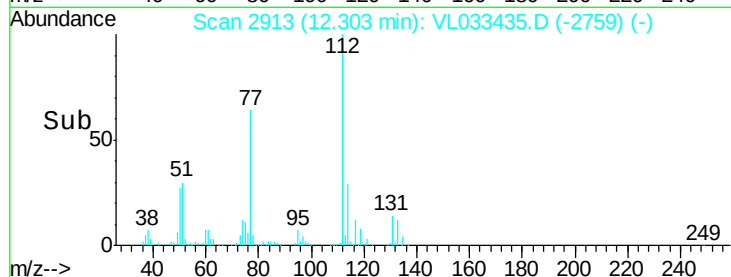
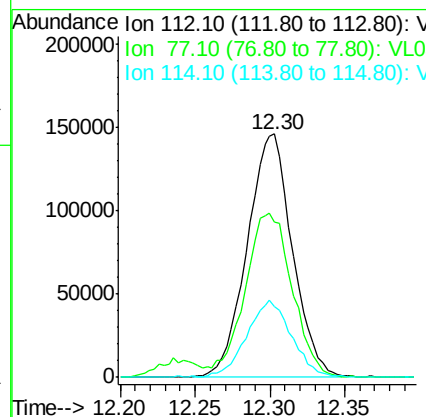
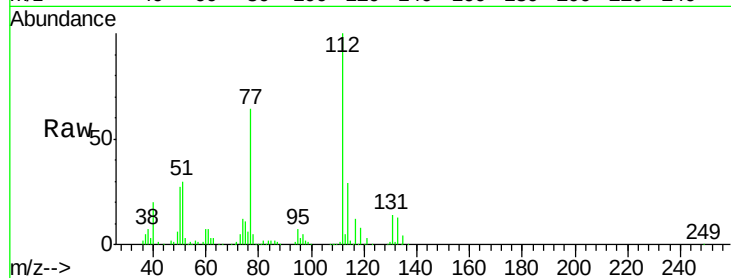
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	306212
Ion Ratio	Lower	Upper	
112	100		
77	63.5	55.8	83.6
114	28.9	28.6	35.0

Manual Integrations
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4/1/2019 1:22:42 AM



#58

Ethyl Benzene

Concen: 1.979 ppbv

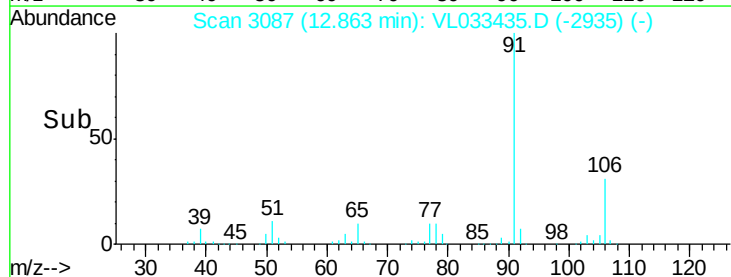
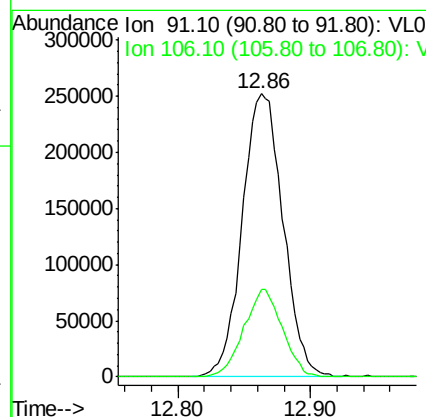
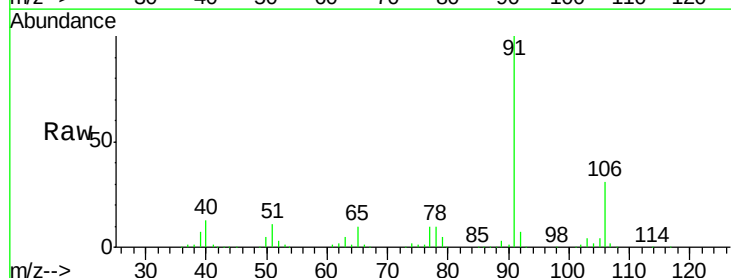
RT: 12.86 min Scan# 3087

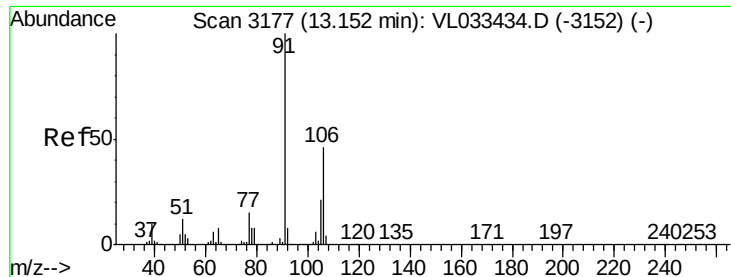
Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion:	91	Resp:	537370
Ion Ratio	Lower	Upper	
91	100		
106	30.8	24.2	36.2





#59

m/p-Xylene

Concen: 3.974 ppbv m

RT: 13.13 min Scan# 3169

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 927294

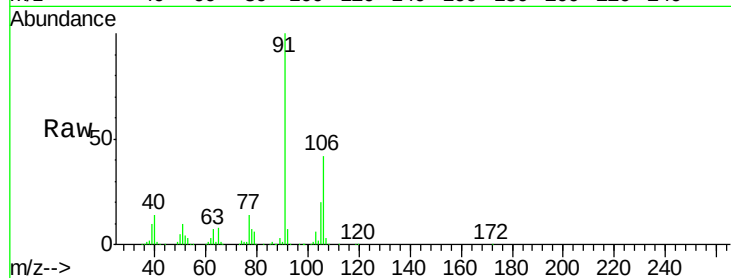
Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0

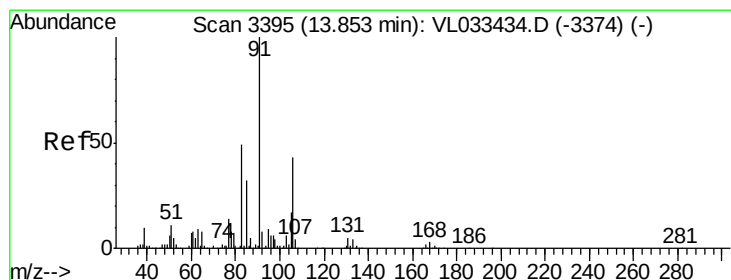
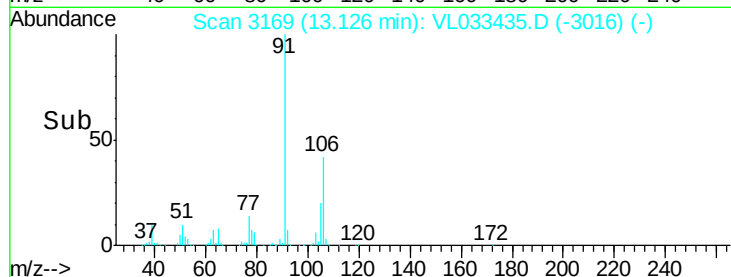
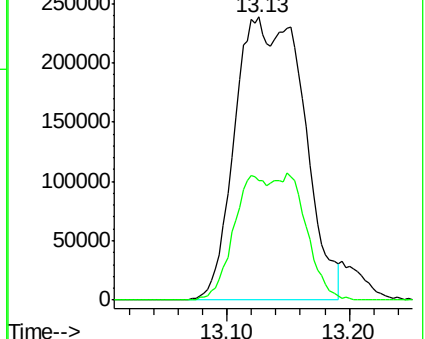
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 2.044 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. -0.01 min

Lab File: VL033435.D

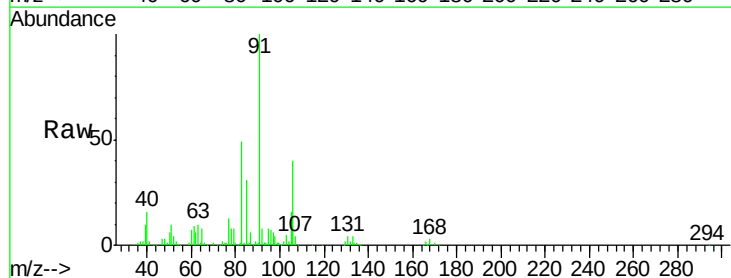
Acq: 25 Mar 2019 11:09

Tgt Ion: 91 Resp: 465392

Ion Ratio Lower Upper

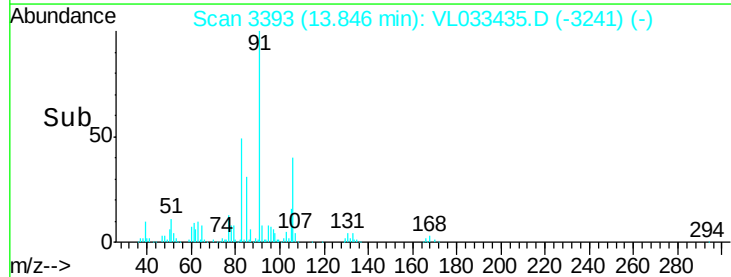
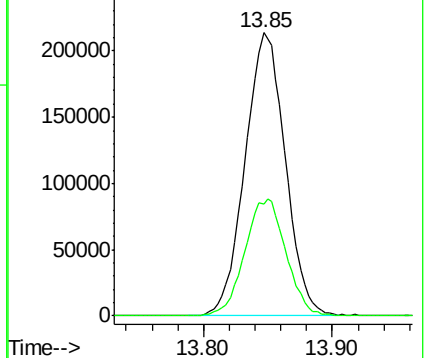
91 100

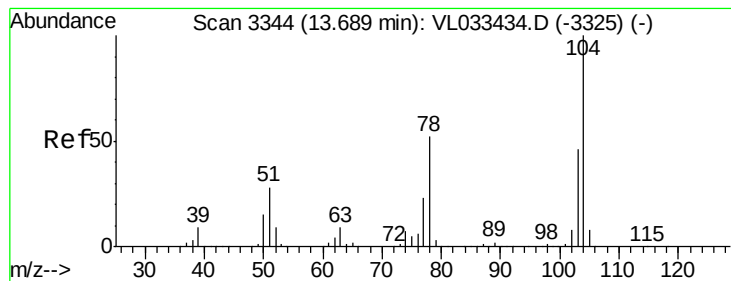
106 42.2 21.3 63.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 1.996 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

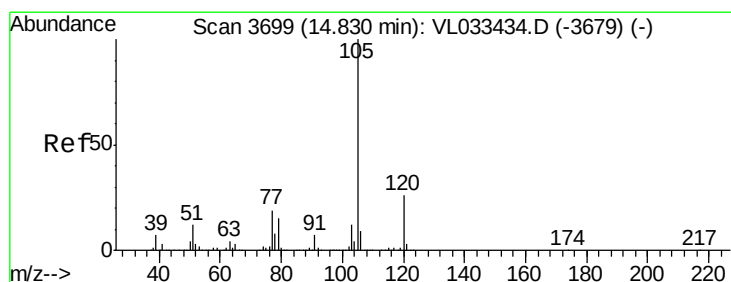
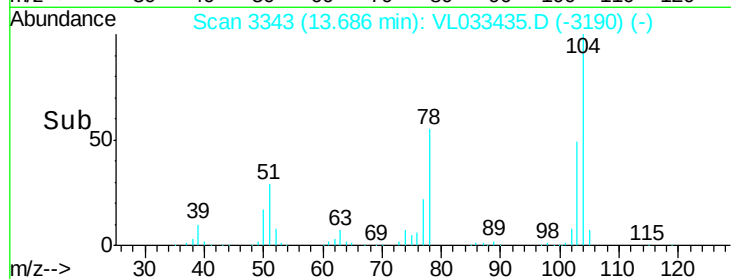
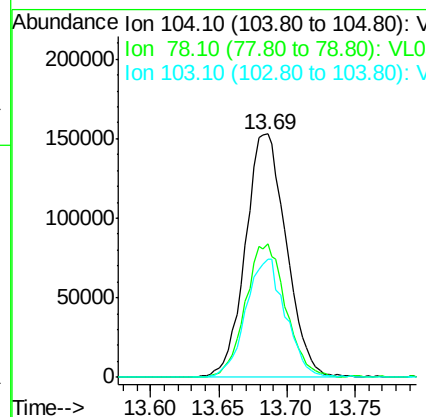
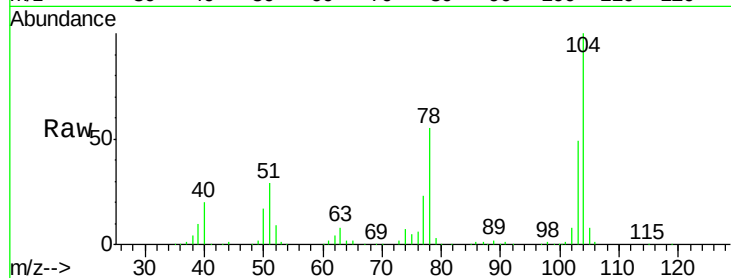
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.2	42.7	64.1
103	47.5	38.0	57.0

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#62

Isopropylbenzene

Concen: 2.050 ppbv

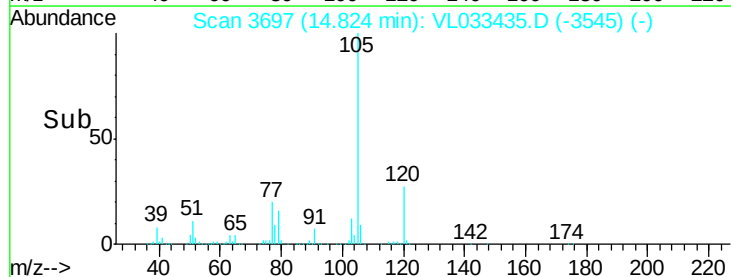
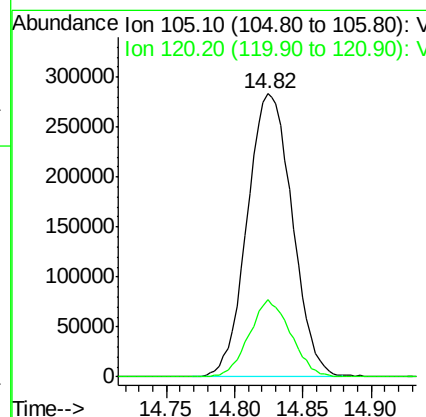
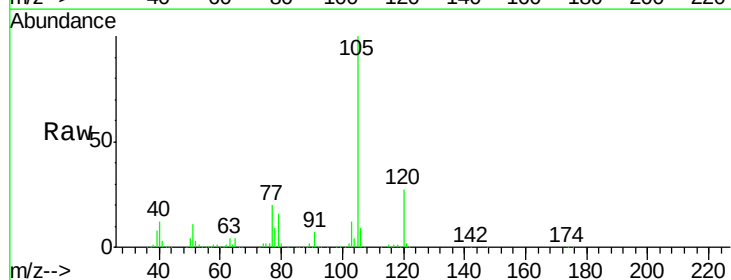
RT: 14.82 min Scan# 3697

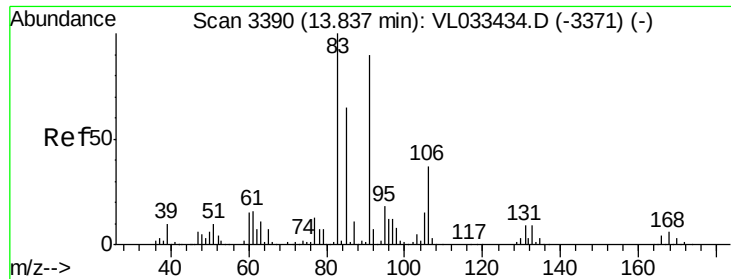
Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	19.9	29.9





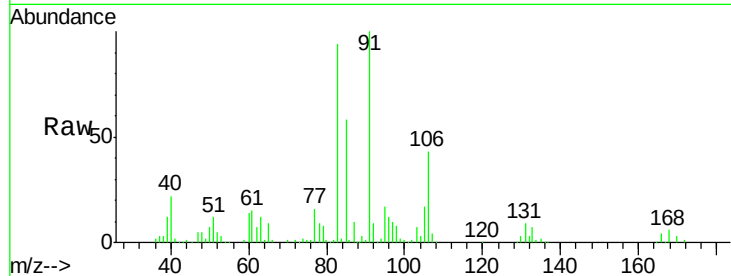
#63
1,1,2,2-Tetrachloroethane
Concen: 2.024 ppbv
RT: 13.84 min Scan# 3390
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

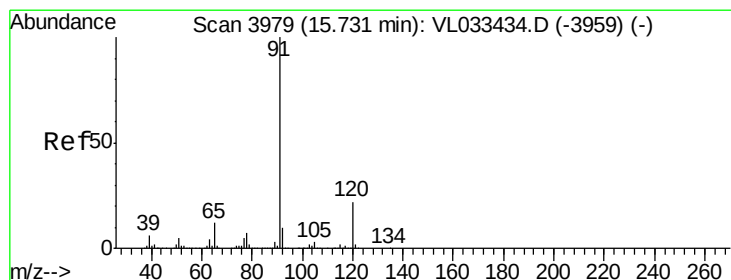
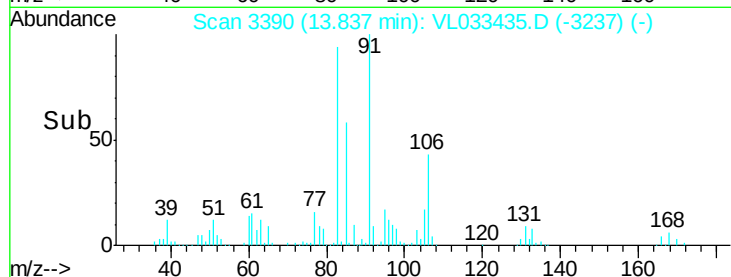
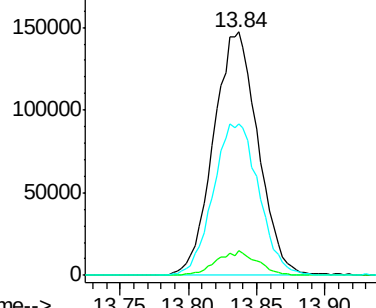
Tot Ion	Ratio	Resp	Lower	Upper
83	100			
131	9.4	4.7	14.0	
85	64.0	32.5	97.4	

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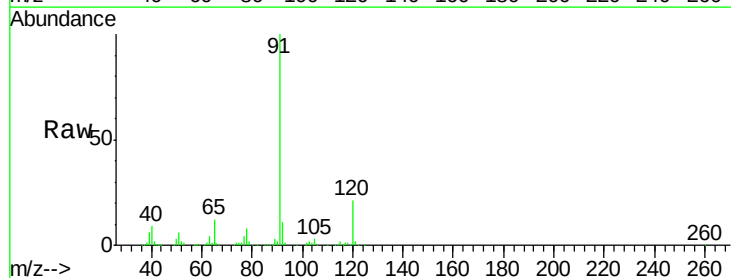


Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0

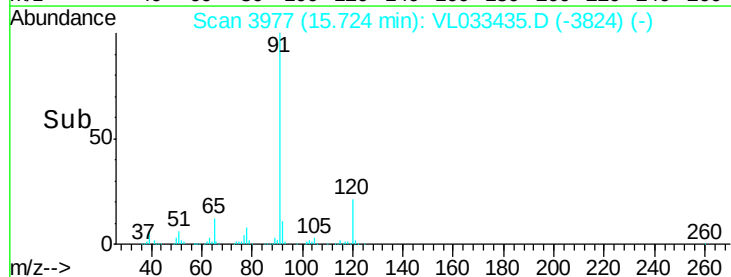
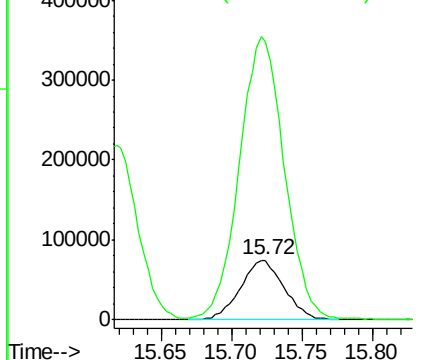


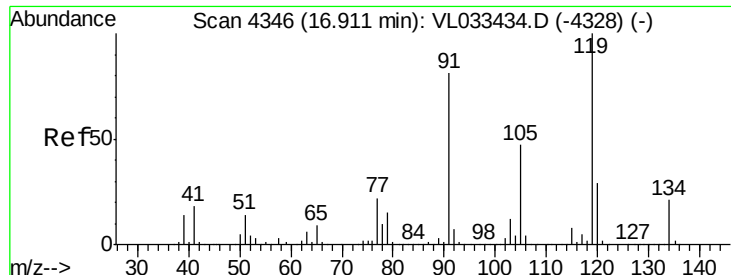
#64
n-propylbenzene
Concen: 2.012 ppbv
RT: 15.72 min Scan# 3977
Delta R.T. -0.01 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
120	100			
91	491.1	389.8	584.6	



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





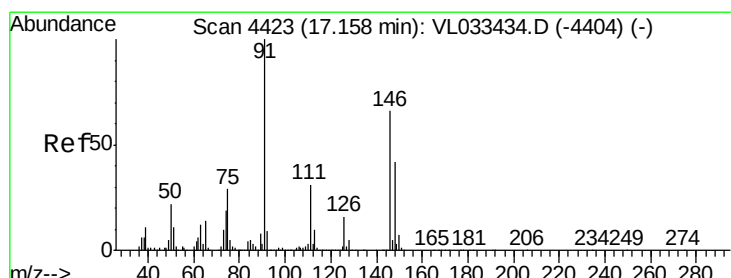
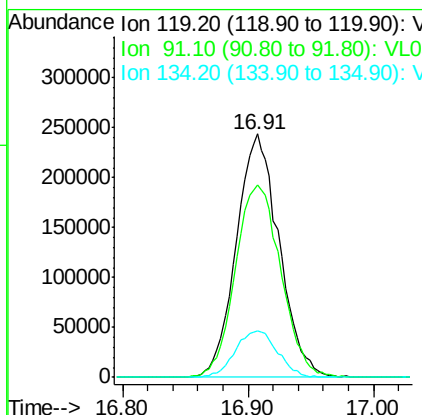
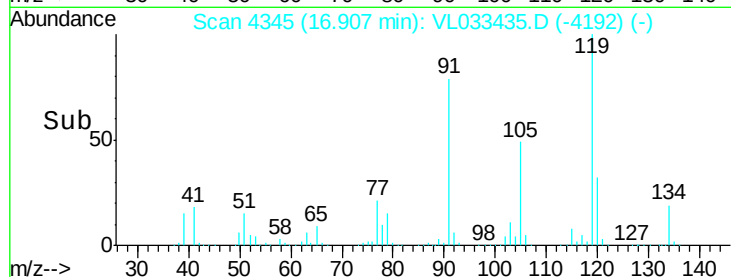
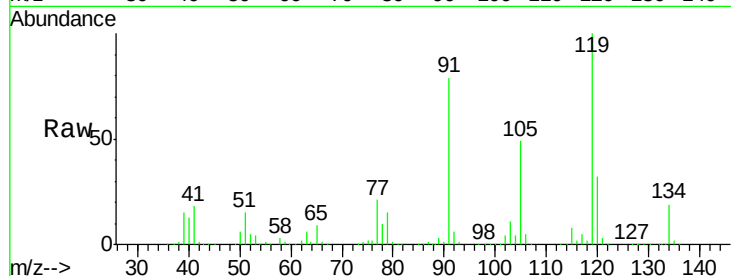
#65
 tert-Butylbenzene
 Concen: 2.024 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	119	Resp:	576750
Ion Ratio	Lower	Upper	
119	100		
91	84.5	67.2	100.8
134	19.1	15.4	23.2

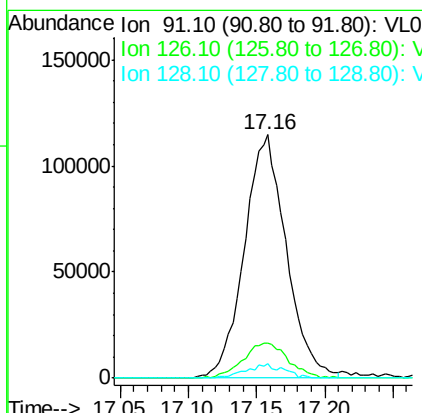
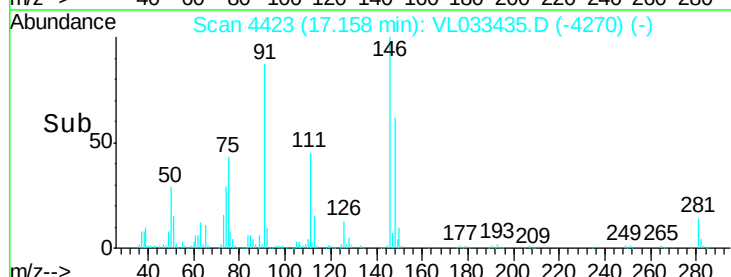
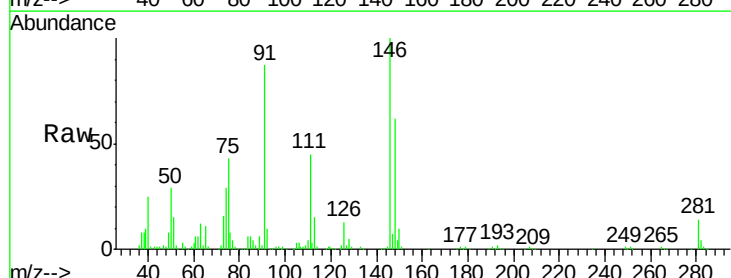
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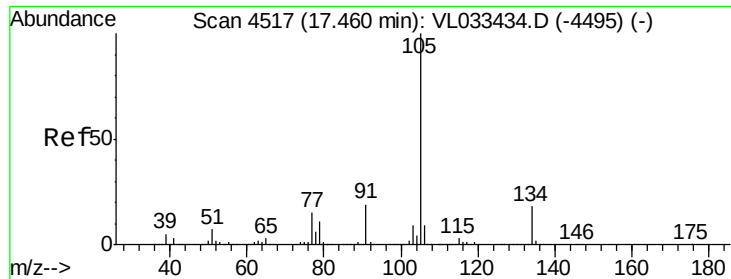
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#66
 Benzyl Chloride
 Concen: 2.081 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Tgt Ion:	91	Resp:	244983
Ion Ratio	Lower	Upper	
91	100		
126	15.7	13.2	19.8
128	5.2	4.2	6.4





#67

sec-Butylbenzene

Concen: 2.032 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 105 Resp: 820434

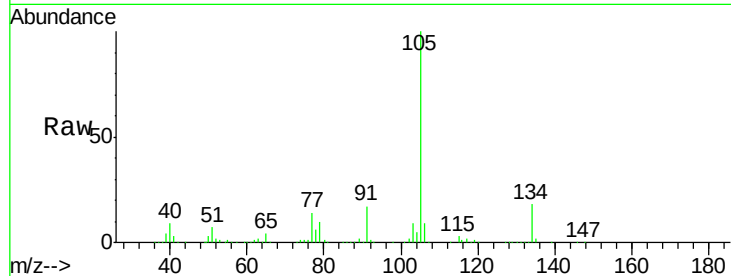
Ion Ratio Lower Upper

105 100

134 17.6 14.2 21.4

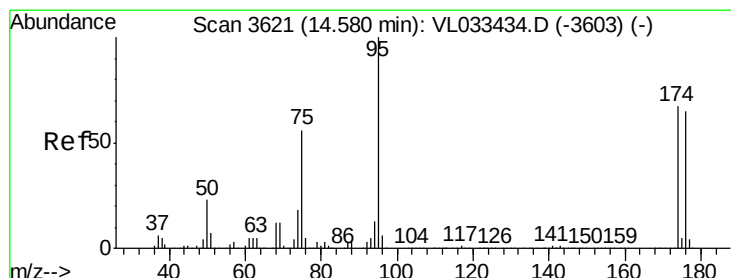
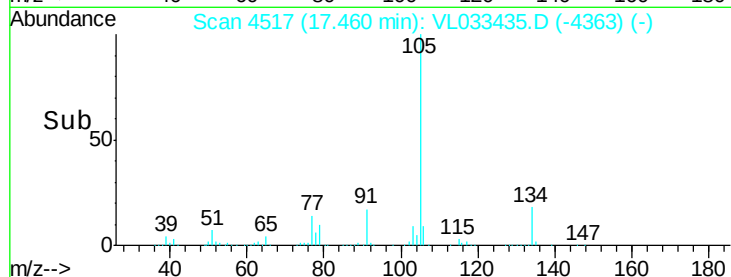
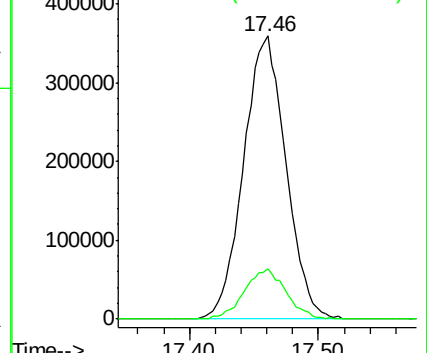
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.480 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

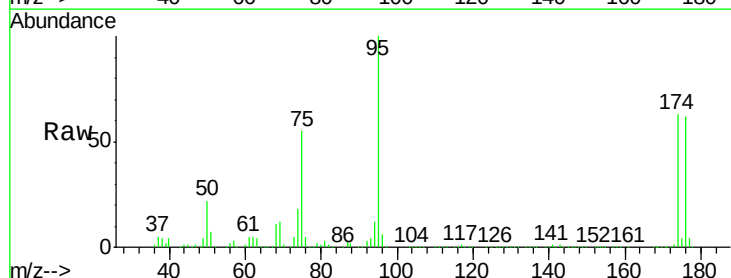
Tgt Ion: 95 Resp: 1490412

Ion Ratio Lower Upper

95 100

174 64.9 51.5 77.3

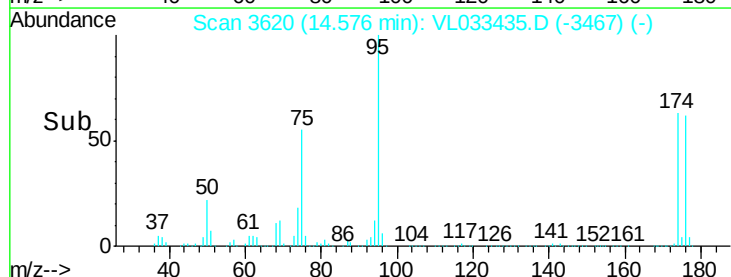
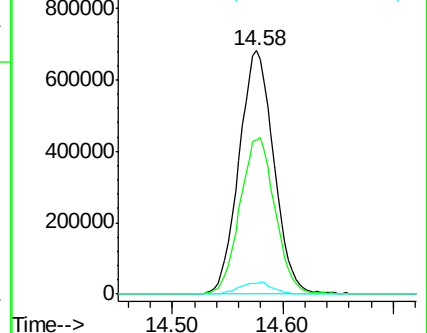
175 4.7 3.8 5.6

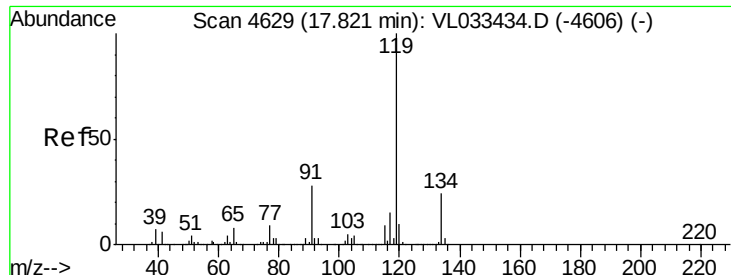


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





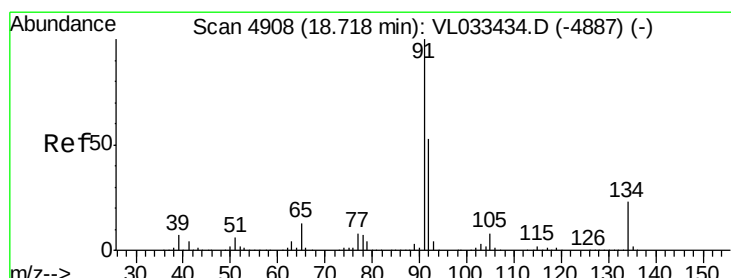
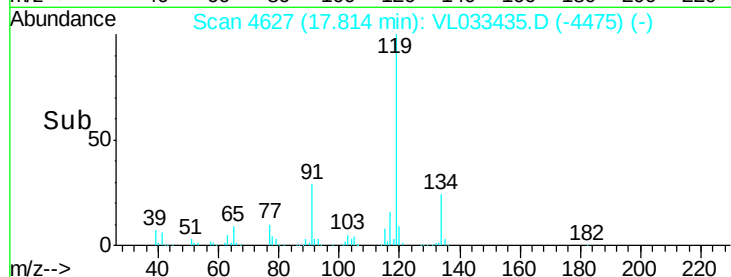
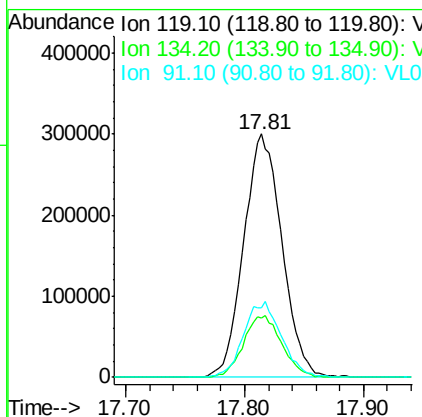
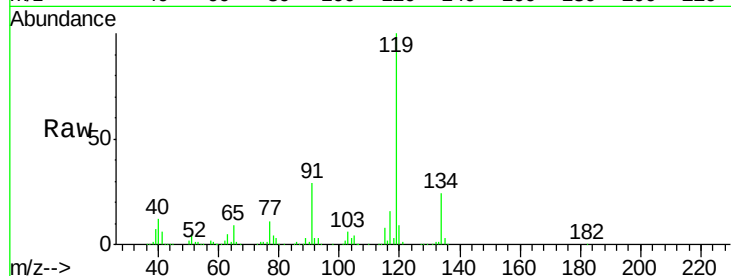
#69
 p-Isopropyltoluene
 Concen: 2.026 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
119	100	668306		
134	25.4	19.8	29.6	
91	30.9	23.4	35.2	

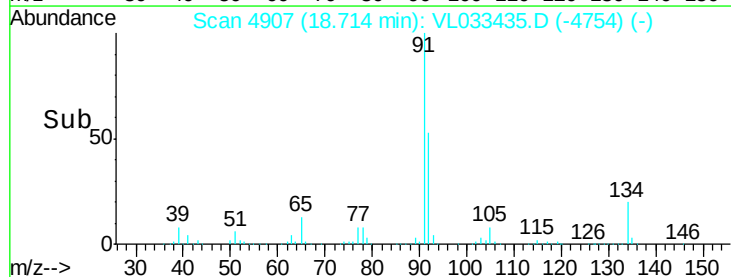
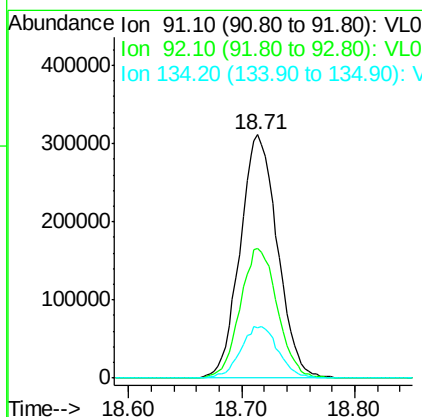
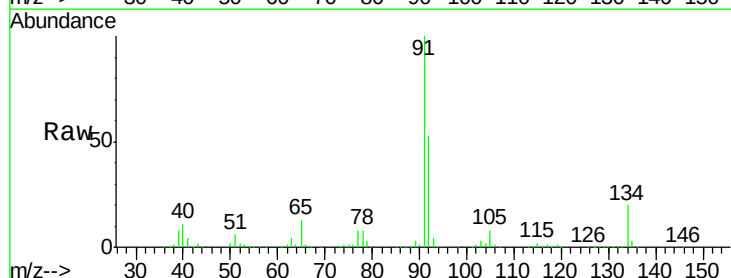
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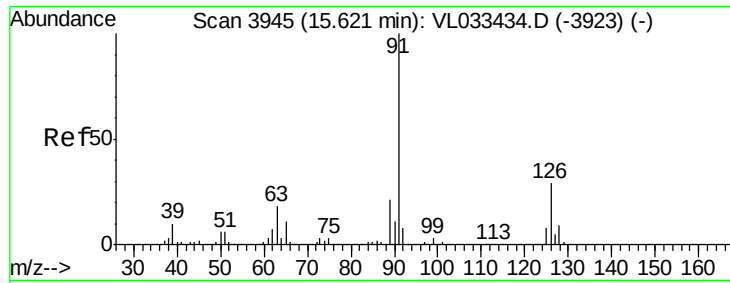
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#70
 n-Butylbenzene
 Concen: 2.028 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	713225		
92	53.3	42.8	64.2	
134	21.3	17.4	26.0	





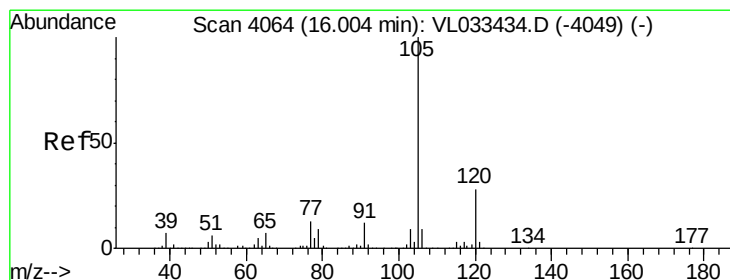
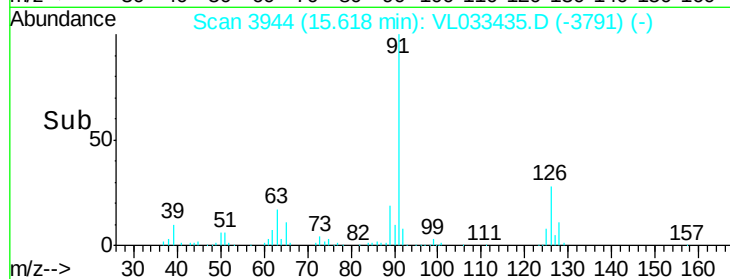
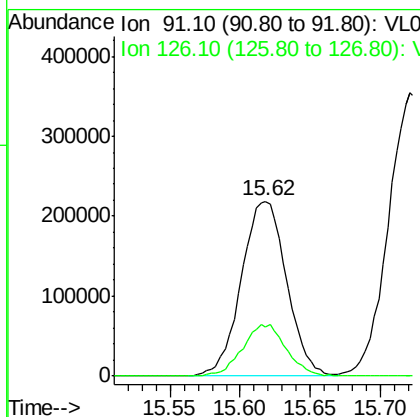
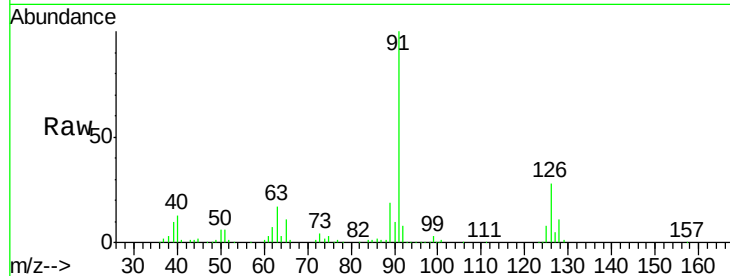
#71
 2-Chlorotoluene
 Concen: 1.980 ppbv
 RT: 15.62 min Scan# 3944
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 91 Resp: 487778
 Ion Ratio Lower Upper
 91 100
 126 28.9 11.6 46.6

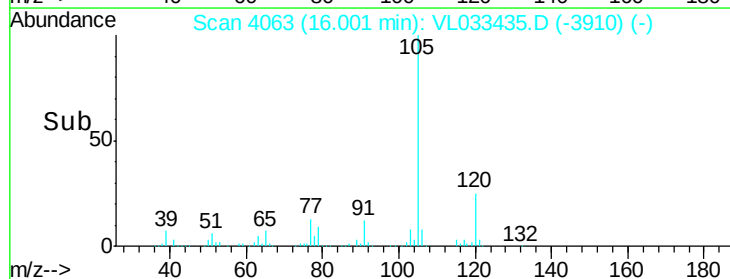
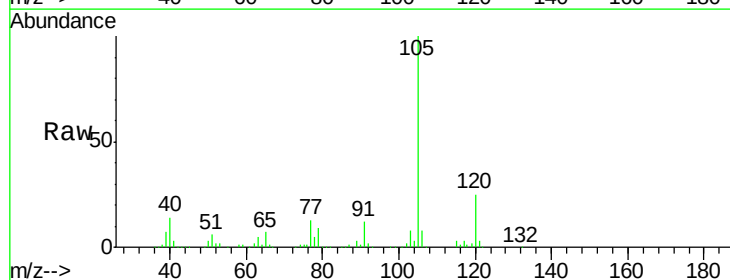
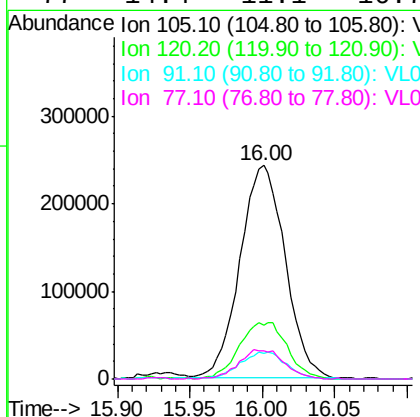
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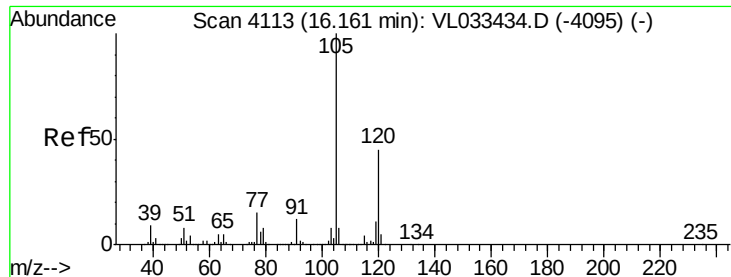
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#72
 4-Ethyltoluene
 Concen: 2.032 ppbv
 RT: 16.00 min Scan# 4063
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Tgt Ion: 105 Resp: 525369
 Ion Ratio Lower Upper
 105 100
 120 28.3 22.9 34.3
 91 13.2 10.2 15.2
 77 14.4 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 1.917 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion:105 Resp: 482662

Ion Ratio Lower Upper

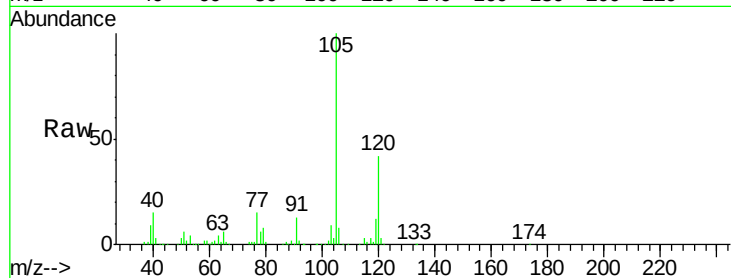
105 100

120 42.3 36.2 54.4

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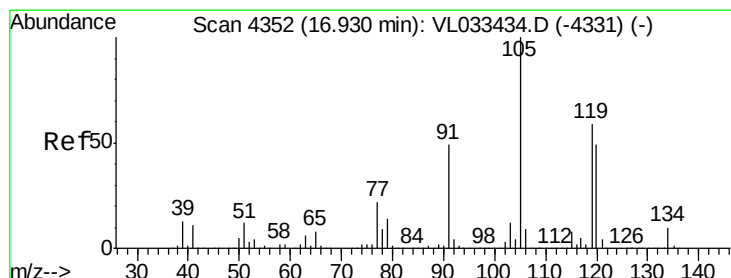
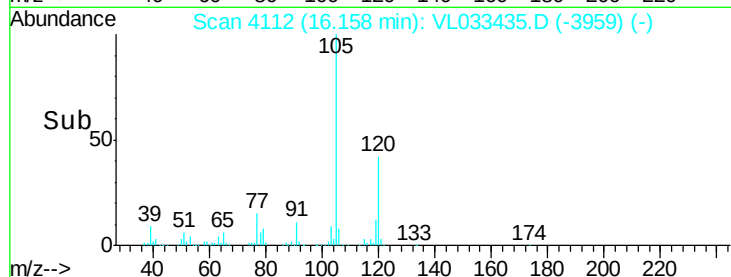
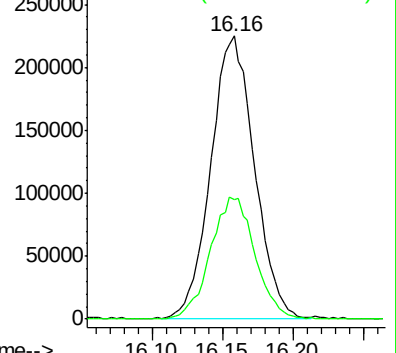
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.964 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion:105 Resp: 523802

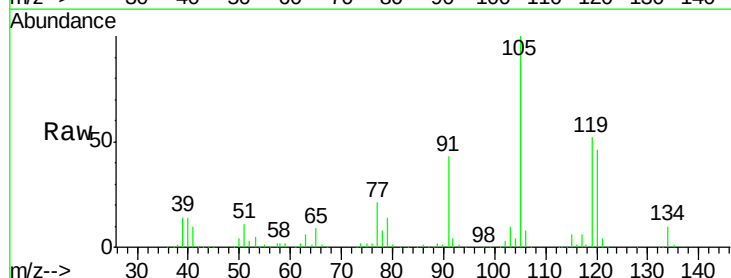
Ion Ratio Lower Upper

105 100

120 45.5 37.4 56.2

91 42.9 41.0 61.4

77 20.9 18.5 27.7

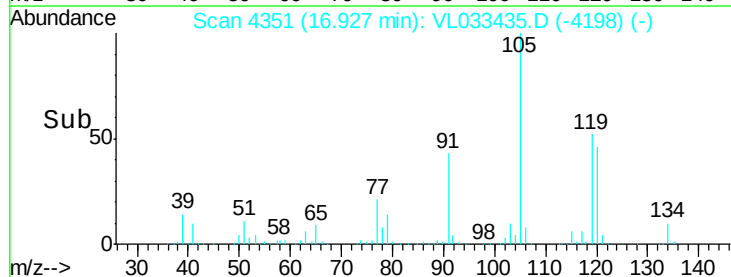
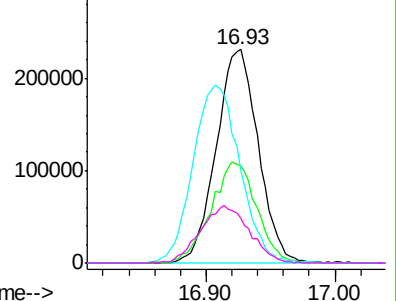


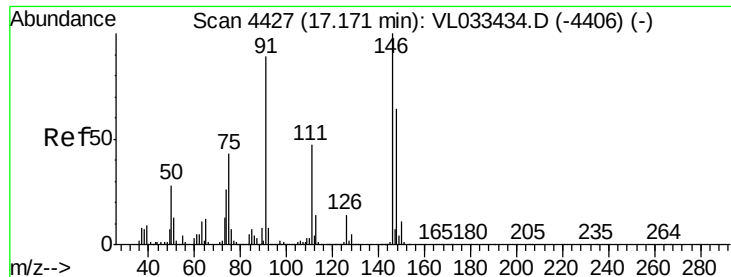
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 2.072 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Instrument :

MSVOA_L

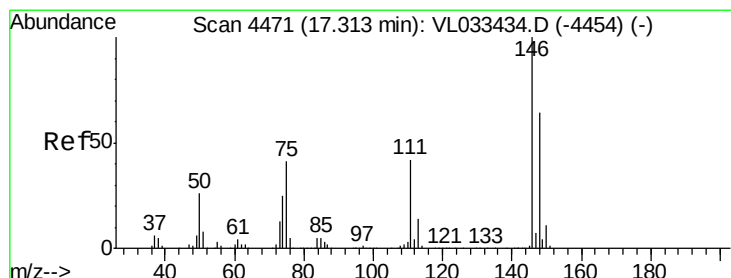
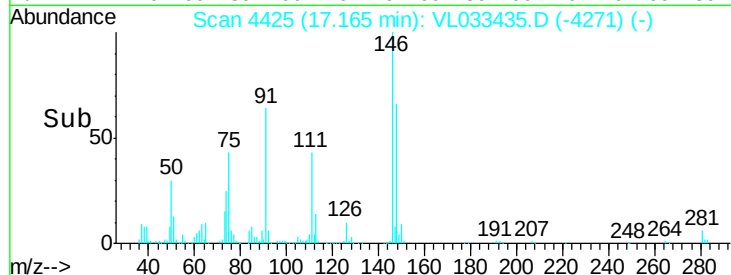
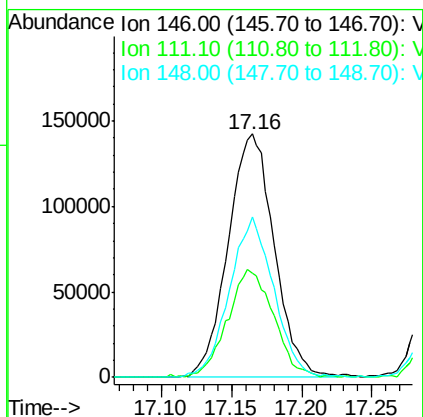
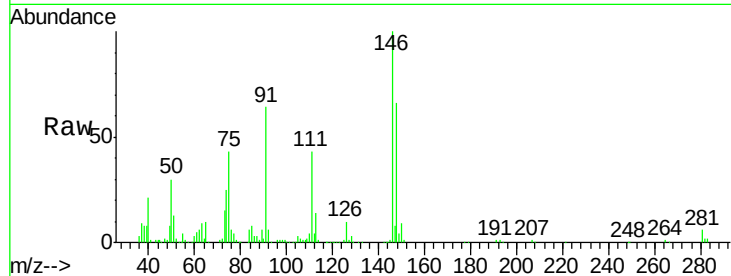
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	325759
Ion Ratio	Lower	Upper	
146	100		
111	44.7	22.8	68.3
148	63.4	31.9	95.7

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#76

1,4-Dichlorobenzene

Concen: 2.049 ppbv

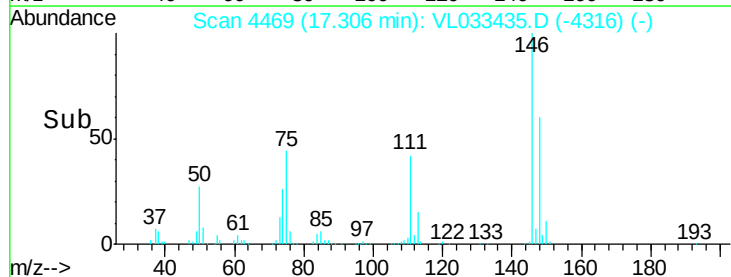
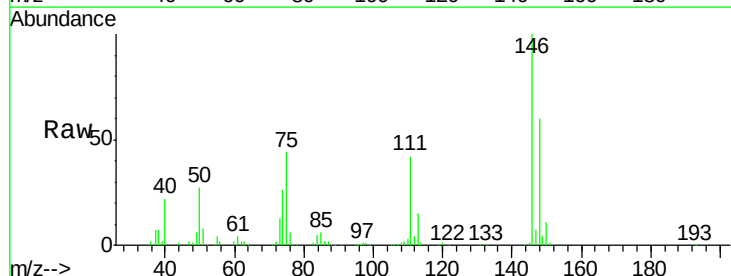
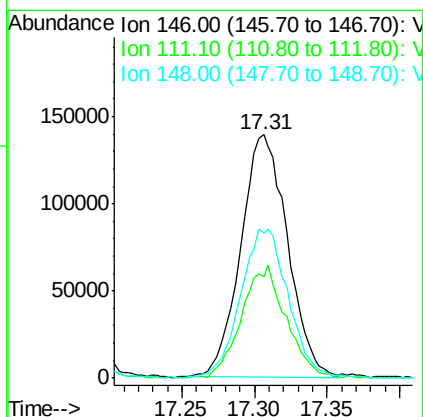
RT: 17.31 min Scan# 4469

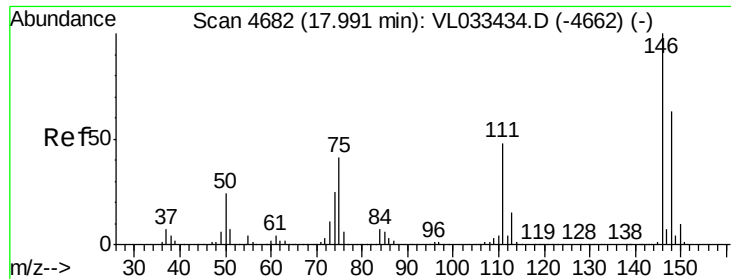
Delta R.T. -0.01 min

Lab File: VL033435.D

Acq: 25 Mar 2019 11:09

Tgt Ion:	146	Resp:	311915
Ion Ratio	Lower	Upper	
146	100		
111	44.5	21.9	65.7
148	63.3	32.1	96.5





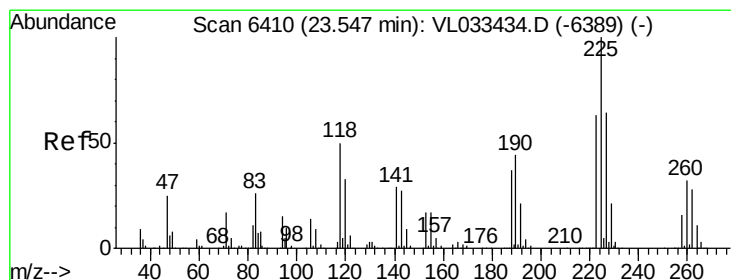
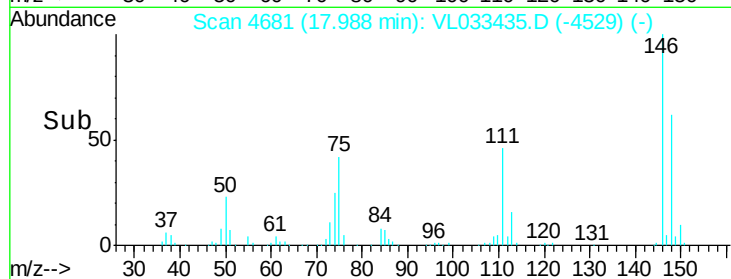
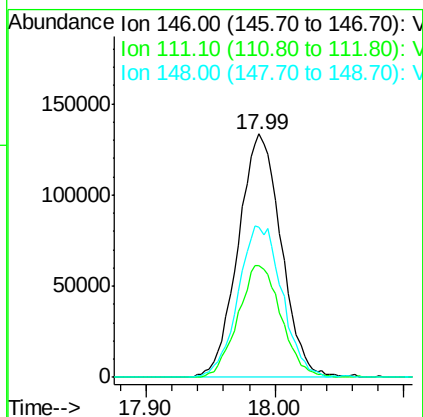
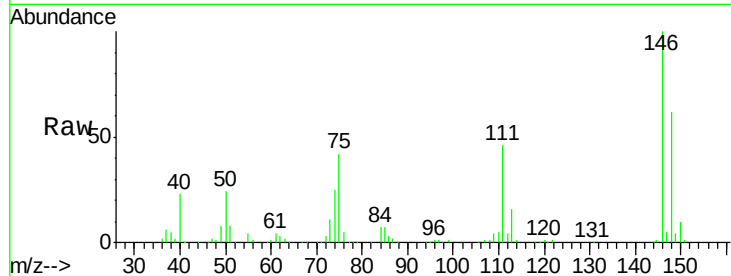
#77
 1,2-Dichlorobenzene
 Concen: 2.073 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.5	23.5	70.6
148	63.7	31.9	95.9

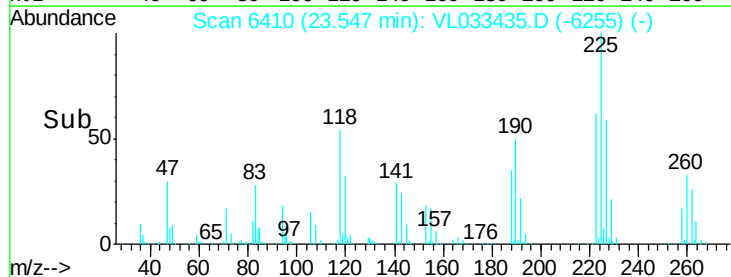
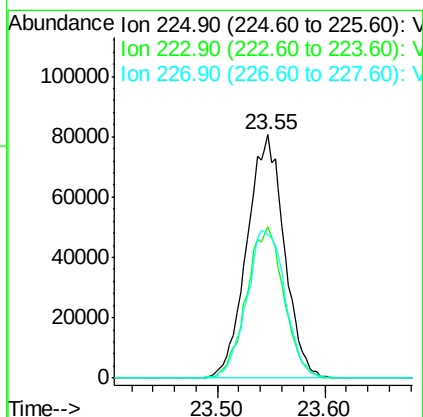
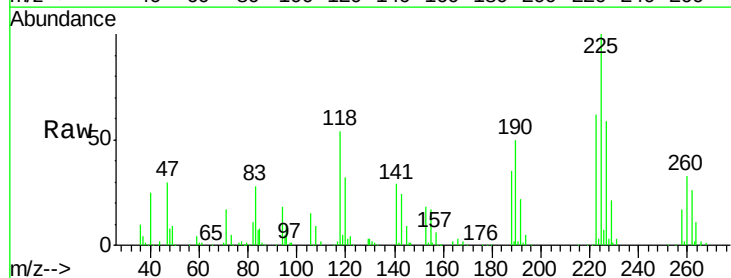
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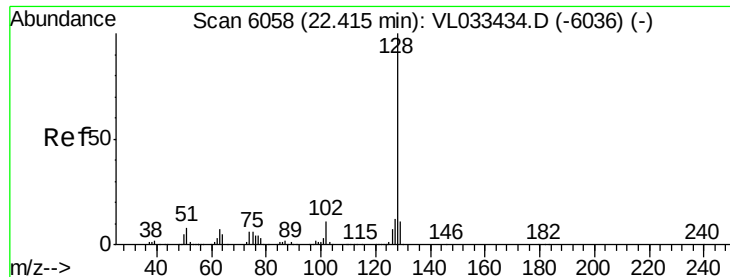
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 2.170 ppbv m
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	50.4	75.6#
227	62.9	50.5	75.7





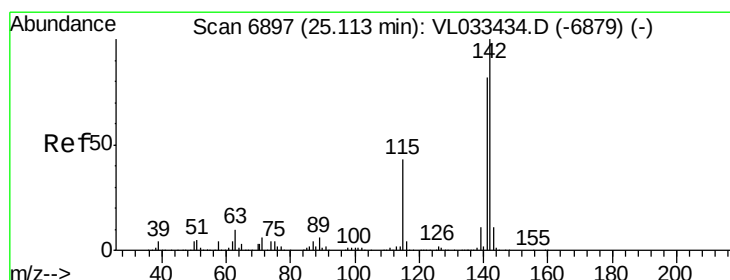
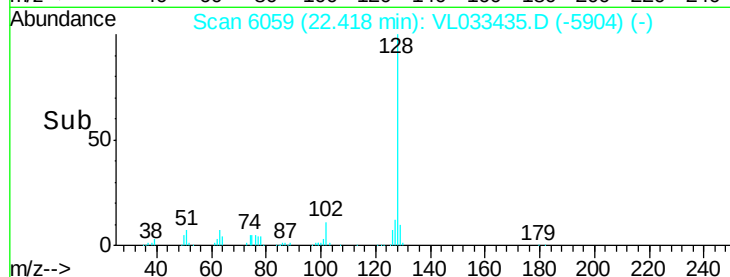
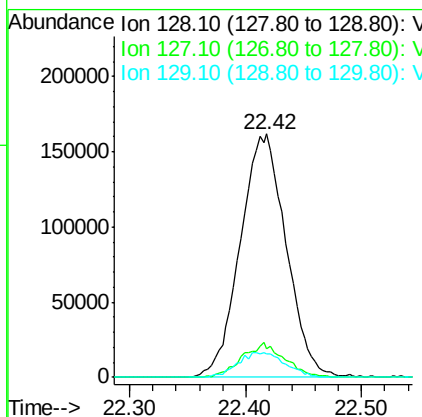
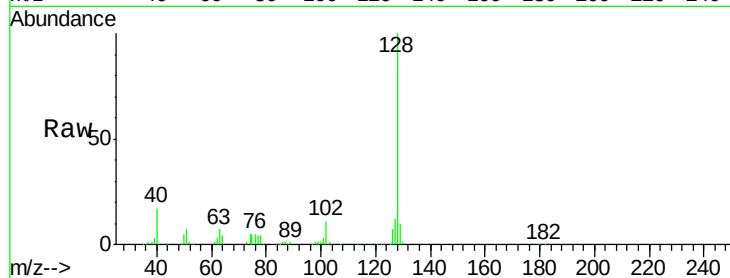
#79
Naphthalene
Concen: 1.727 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.1	15.1
129	9.6	8.2	12.2

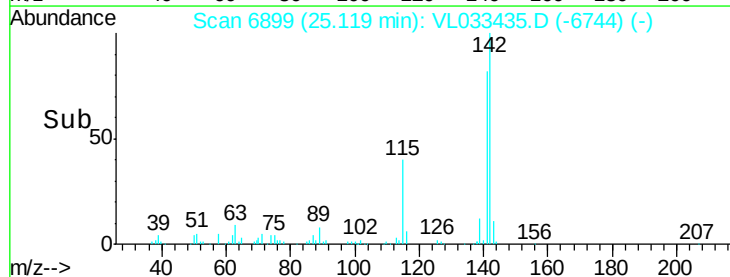
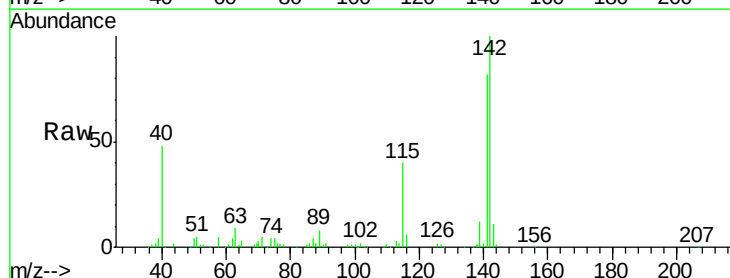
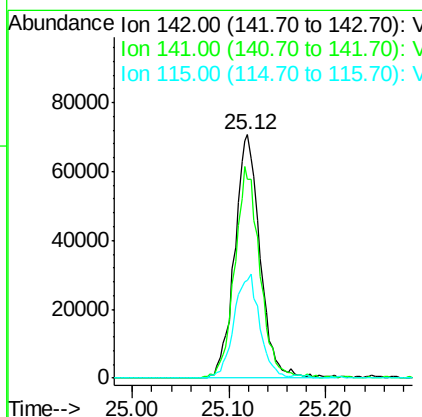
Manual Integrations
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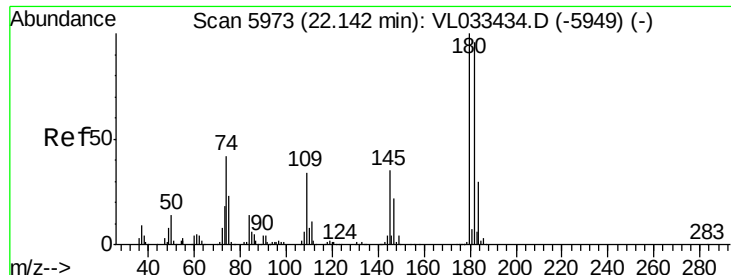
MMDadoda
4/1/2019 1:22:42 AM



#80
Naphthalene, 2-methyl-
Concen: 1.056 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. -0.00 min
Lab File: VL033435.D
Acq: 25 Mar 2019 11:09

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.9	67.1	100.7
115	43.6	33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 1.924 ppbv m
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL033435.D
 Acq: 25 Mar 2019 11:09

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	0.0	76.1	114.1#
184	0.0	24.6	37.0#

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:22:42 AM

