

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033274.D
 Acq On : 12 Mar 2019 3:36
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:39 AM

Quant Time: Mar 12 05:07:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 05:07:00 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	929991	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2157509	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2188379	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1697834	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	197445	1.024	ppbv	96
3) Chlorodifluoromethane	3.01	51	117097	0.999	ppbv	99
4) Chloromethane	3.17	50	59730	0.969	ppbv	99
5) Vinyl Chloride	3.29	62	57401	0.963	ppbv	95
6) Bromomethane	3.51	94	37090	0.981	ppbv	97
7) Chloroethane	3.60	64	22492	1.019	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	152596	1.000	ppbv	97
9) Propene	3.04	41	51686	0.993	ppbv	100
10) Heptane	8.25	43	130041	1.053	ppbv	100
11) Trichlorofluoromethane	4.00	101	263395	1.631	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.55	101	111912	1.102	ppbv	98
13) Ethanol	3.66	45	20894	1.437	ppbv	95
14) Bromoethene	3.79	108	70790	1.694	ppbv	98
15) Acetone	3.91	43	214997	1.857	ppbv	100
16) 1,3-Butadiene	3.36	39	44915	0.899	ppbv	95
17) tert-Butyl alcohol	4.37	59	19722m	1.085	ppbv	
18) 1,1-Dichloroethene	4.35	96	46466	1.044	ppbv	93
19) Isopropyl Alcohol	4.03	45	123189	1.774	ppbv #	98
20) Methylene Chloride	4.41	84	51613	1.129	ppbv	91
21) Allyl Chloride	4.48	41	68155	1.018	ppbv	93
22) trans-1,2-Dichloroethene	4.96	96	51270	1.081	ppbv	91
23) Vinyl Acetate	5.16	43	177447	1.106	ppbv #	99
24) 1,1-Dichloroethane	5.09	63	130518	1.072	ppbv	97
25) Ethyl Acetate	5.78	43	234745	1.108	ppbv	98
26) Hexane	5.78	57	113164m	1.133	ppbv	
27) Carbon Disulfide	4.62	76	105891	1.047	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	147168	1.117	ppbv	98
29) Chloroform	5.85	83	165530	1.090	ppbv	93
30) Cyclohexane	7.25	84	80871	1.078	ppbv #	71
31) cis-1,2-Dichloroethene	5.64	61	101212	1.073	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	153341	1.071	ppbv	98
34) 2-Butanone	5.33	43	151699	1.134	ppbv	99
35) Carbon Tetrachloride	7.14	117	155513m	1.052	ppbv	
36) Benzene	7.00	78	207305	1.087	ppbv	98
37) 1,2-Dichloroethane	6.41	62	126141	1.036	ppbv	99
38) Trichloroethene	7.96	130	77590	1.075	ppbv	95
39) 1,2-Dichloropropane	7.73	63	76743	1.052	ppbv	97
40) 1,4-Dioxane	7.98	88	32285m	1.207	ppbv	
41) Tetrahydrofuran	6.17	42	82517	1.090	ppbv	97
42) Bromodichloromethane	7.91	83	165705	1.020	ppbv	95
43) Methyl Methacrylate	8.14	69	77272	1.037	ppbv	99

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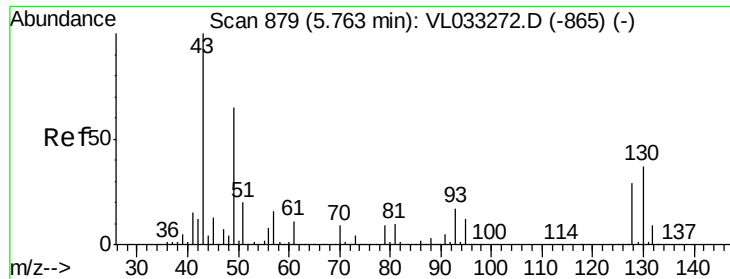
Manual Integrations
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MMDadoda
 3/14/2019 5:05:39 AM

Quant Time: Mar 12 05:07:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 05:07:00 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	357653	1.087	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	86528	0.958	ppbv	95
46) cis-1,3-Dichloropropene	8.83	75	109603	1.030	ppbv	94
47) 1,1,2-Trichloroethane	9.61	97	84142	1.074	ppbv	95
48) Dibromochloromethane	10.45	129	129771	1.011	ppbv	100
49) Bromoform	13.20	173	100182	0.870	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	212620	1.079	ppbv	99
51) 2-Hexanone	10.29	43	156209m	1.063	ppbv	
52) Tetrachloroethene	11.37	164	74391m	1.067	ppbv	
53) Toluene	9.95	91	230676	1.083	ppbv	100
54) 1,2-Dibromoethane	10.76	107	123829	1.008	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.27	131	98115	1.073	ppbv #	1
57) Chlorobenzene	12.30	112	177233	1.101	ppbv #	97
58) Ethyl Benzene	12.86	91	313730	1.057	ppbv	99
59) m/p-Xylene	13.13	91	526073m	1.960	ppbv	
60) o-Xylene	13.85	91	254373	0.982	ppbv	98
61) Styrene	13.69	104	174446	0.986	ppbv	98
62) Isopropylbenzene	14.83	105	359704	1.041	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.84	83	172166	1.031	ppbv	100
64) n-propylbenzene	15.73	120	85662m	1.012	ppbv	
65) tert-Butylbenzene	16.90	119	302871	1.041	ppbv	99
66) Benzyl Chloride	17.15	91	84086	0.775	ppbv	100
67) sec-Butylbenzene	17.46	105	427263m	1.035	ppbv	
69) p-Isopropyltoluene	17.82	119	337083	1.005	ppbv	98
70) n-Butylbenzene	18.72	91	353204	0.971	ppbv	99
71) 2-Chlorotoluene	15.62	91	262402	1.016	ppbv	100
72) 4-Ethyltoluene	16.00	105	268813	0.998	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	247163	0.964	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	257856	0.964	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	153771	0.975	ppbv	95
76) 1,4-Dichlorobenzene	17.31	146	146027	0.943	ppbv	93
77) 1,2-Dichlorobenzene	17.99	146	153032	1.005	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	125180	1.085	ppbv	99
79) Naphthalene	22.42	128	185930	0.637	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	5177m	0.073	ppbv	
81) 1,2,4-Trichlorobenzene	22.14	180	114916	0.761	ppbv	95

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



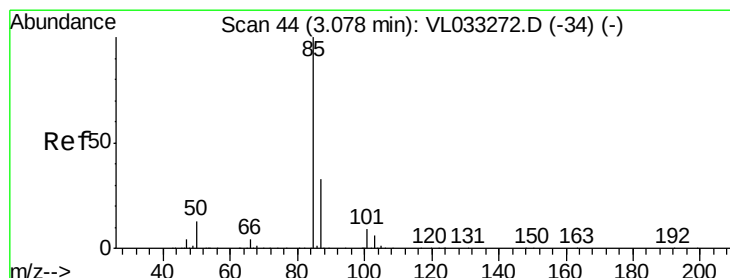
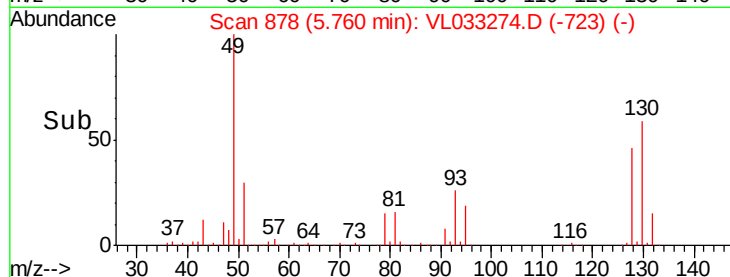
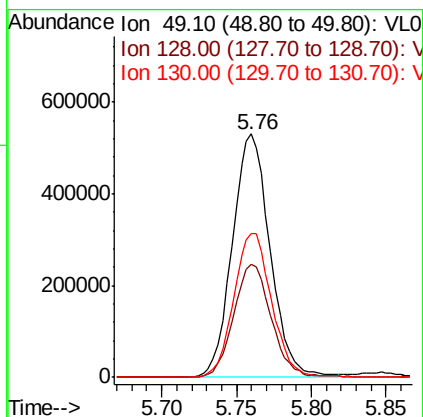
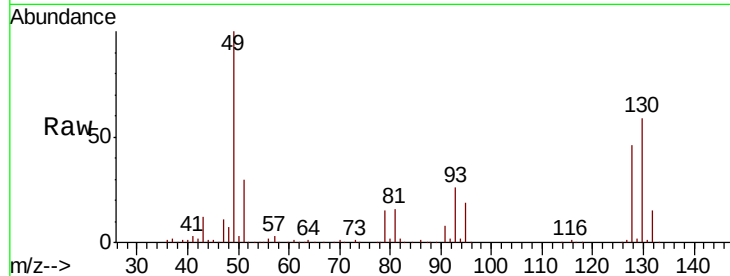
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 929991
Ion Ratio Lower Upper
49 100
128 46.9 23.3 69.9
130 60.1 30.0 90.1

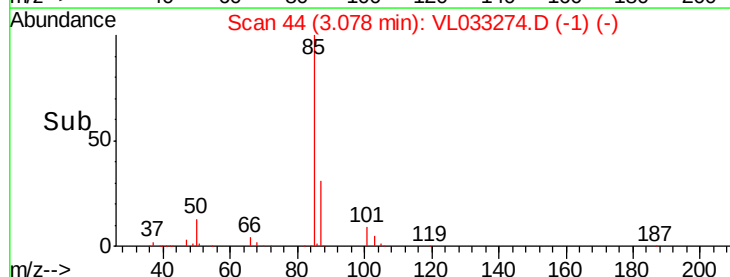
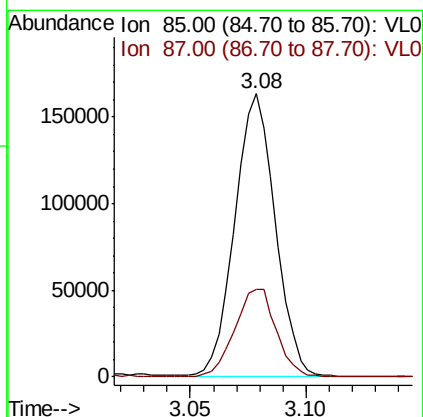
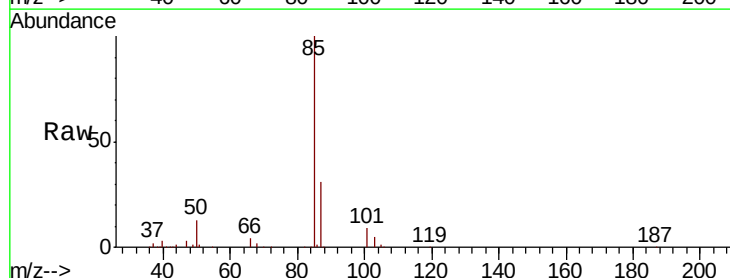
Manual Integrations
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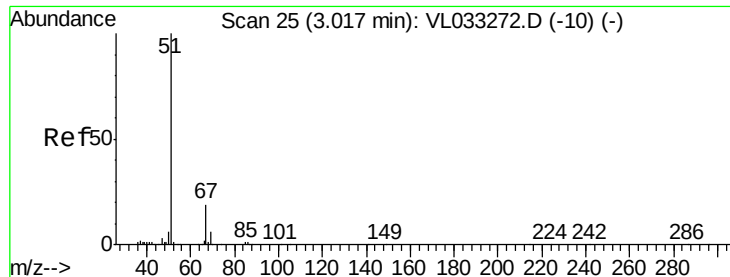
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#2
Dichlorodifluoromethane
Concen: 1.024 ppbv
RT: 3.08 min Scan# 44
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion: 85 Resp: 197445
Ion Ratio Lower Upper
85 100
87 30.9 26.4 39.6





#3

Chlorodifluoromethane

Concen: 0.999 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 51 Resp: 117097

Ion Ratio Lower Upper

51 100

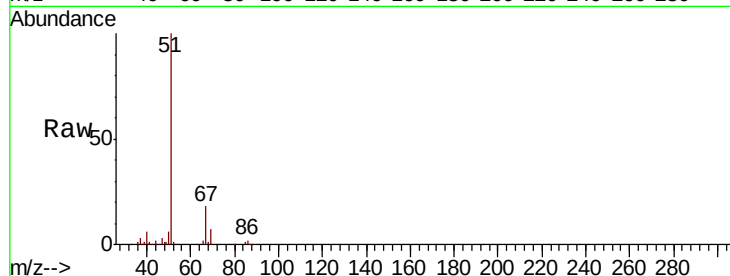
67 18.3 15.0 22.4

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.01

100000

80000

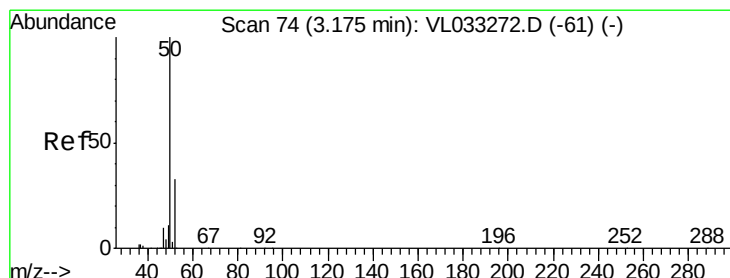
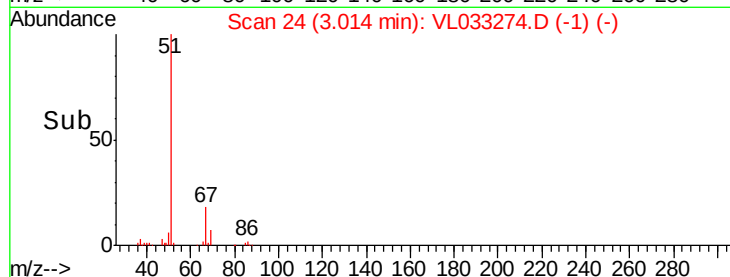
60000

40000

20000

0

Time-->



#4

Chloromethane

Concen: 0.969 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033274.D

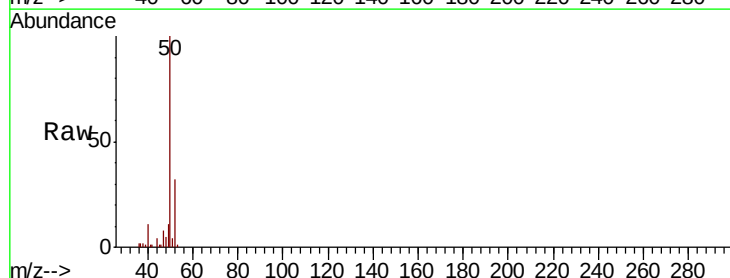
Acq: 12 Mar 2019 3:36

Tgt Ion: 50 Resp: 59730

Ion Ratio Lower Upper

50 100

52 32.7 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

50000

40000

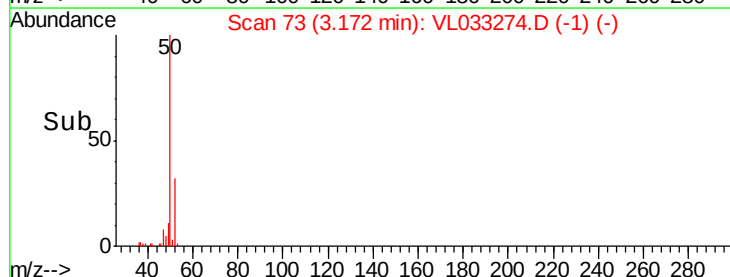
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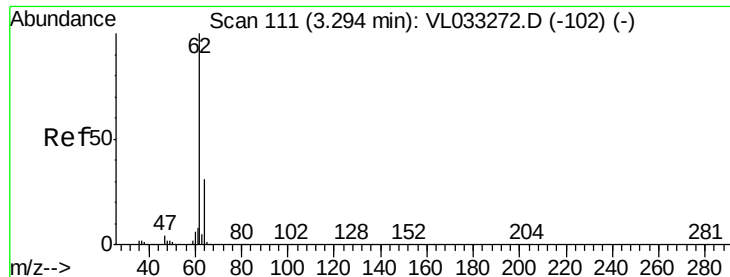
20000

10000

0

Time-->





#5

Vinyl Chloride

Concen: 0.963 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 57401

Ion Ratio Lower Upper

62 100

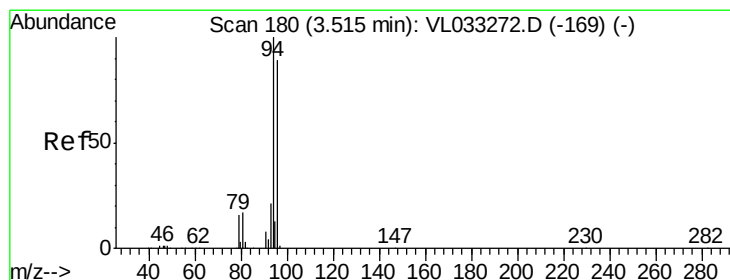
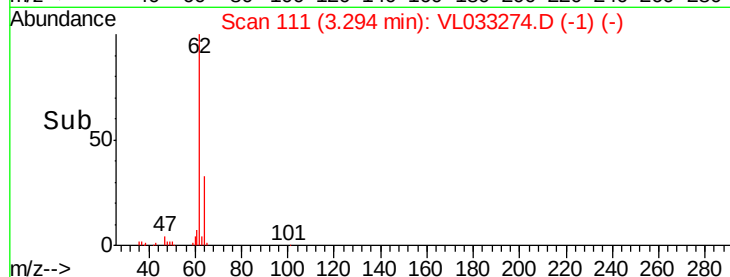
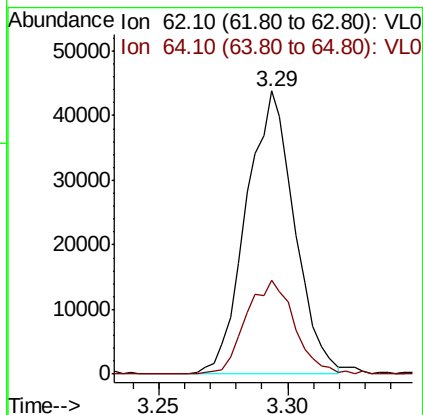
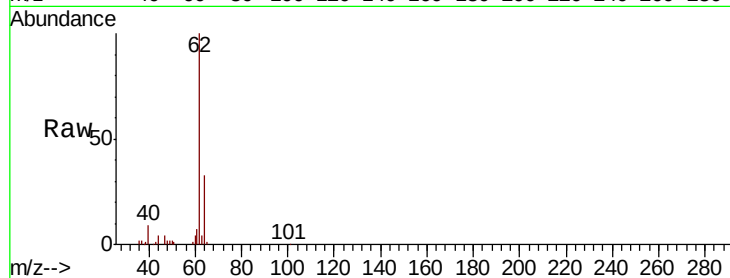
64 33.3 24.5 36.7

Manual Integrations

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#6

Bromomethane

Concen: 0.981 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033274.D

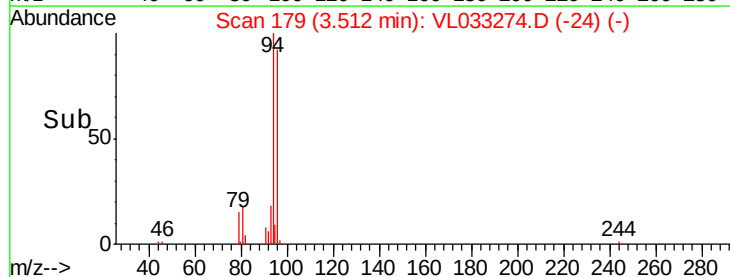
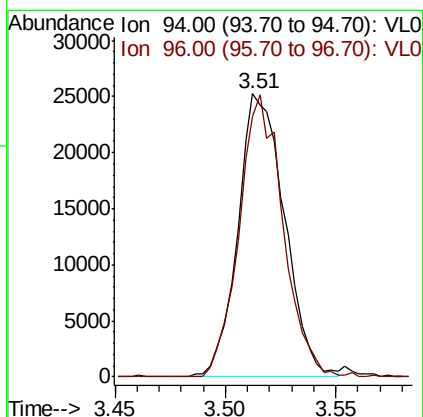
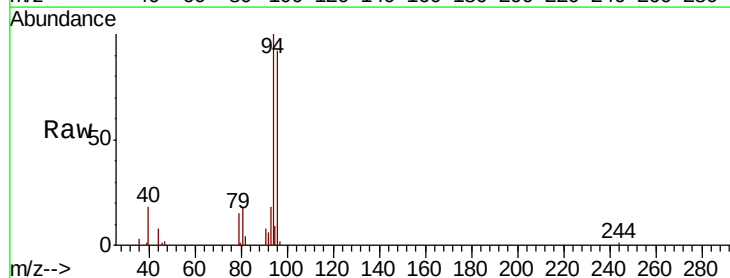
Acq: 12 Mar 2019 3:36

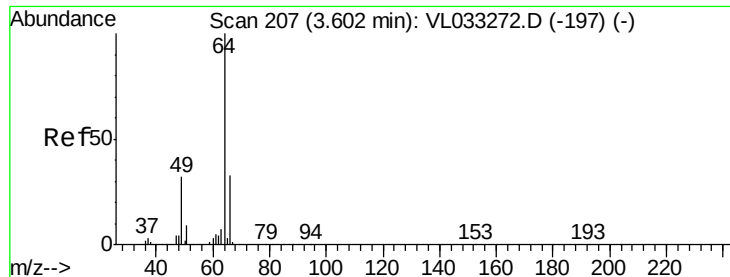
Tgt Ion: 94 Resp: 37090

Ion Ratio Lower Upper

94 100

96 92.0 71.3 106.9





#7

Chloroethane

Concen: 1.019 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 64 Resp: 22492

Ion Ratio Lower Upper

64 100

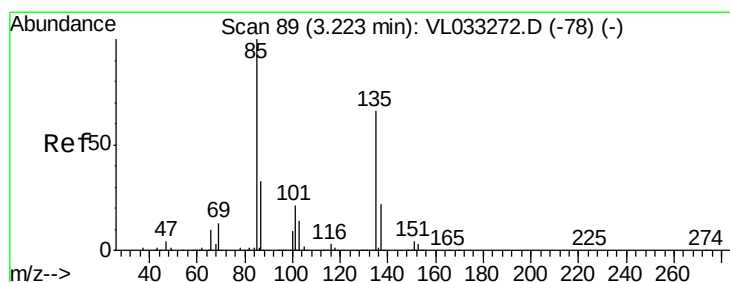
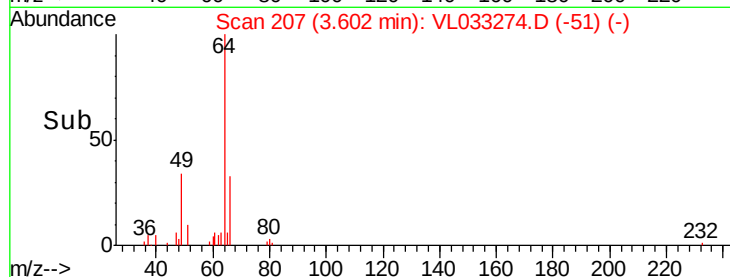
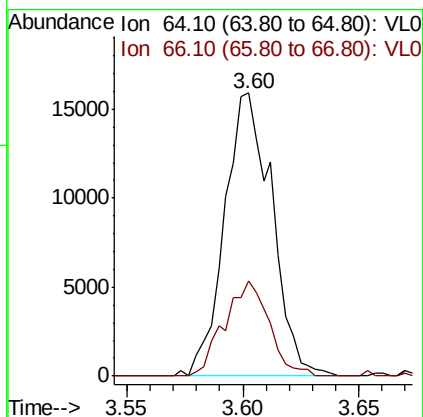
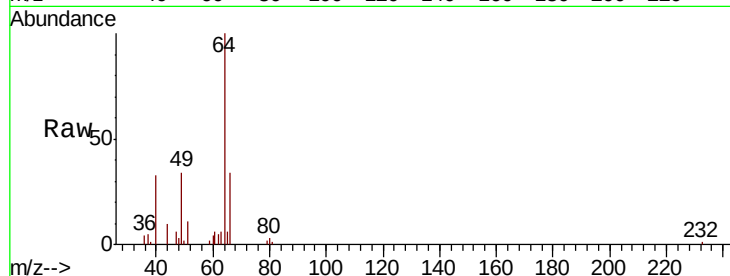
66 33.6 26.2 39.2

Manual Integrations

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3/14/2019 5:05:39 AM



#8

Dichlorotetrafluoroethane

Concen: 1.000 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033274.D

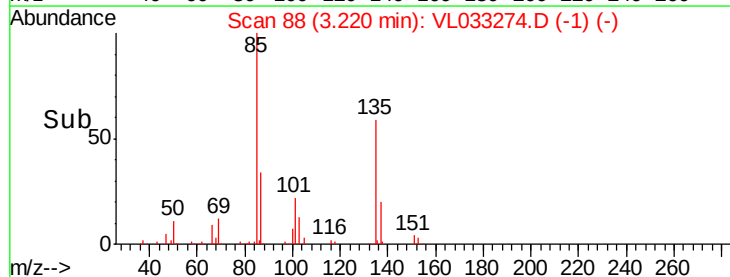
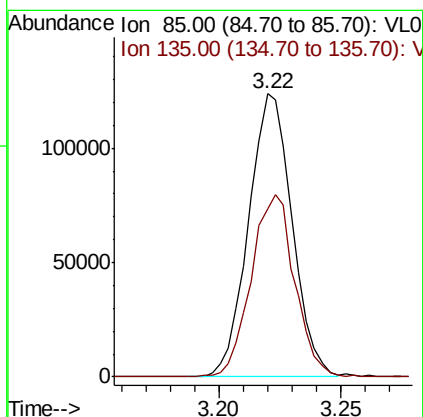
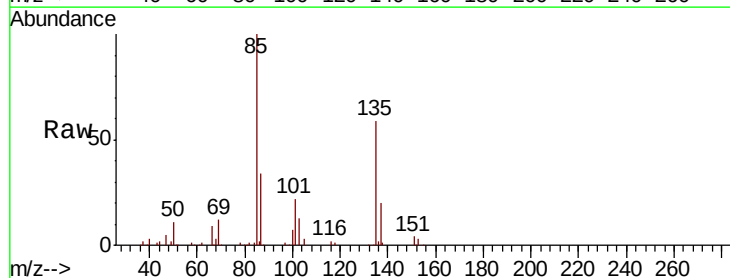
Acq: 12 Mar 2019 3:36

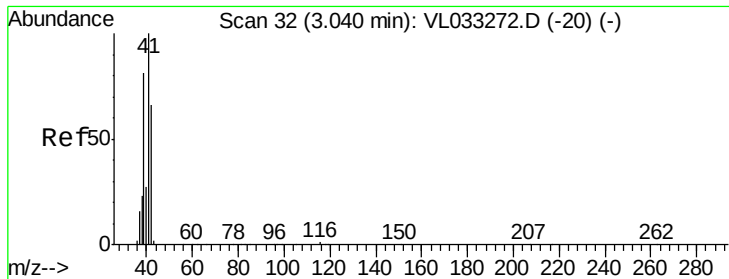
Tgt Ion: 85 Resp: 152596

Ion Ratio Lower Upper

85 100

135 64.4 53.4 80.2





#9

Propene

Concen: 0.993 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 41 Resp: 51686

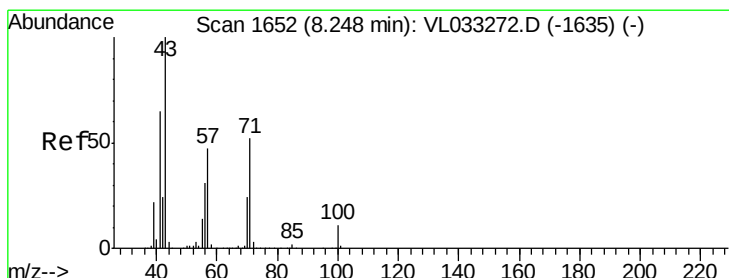
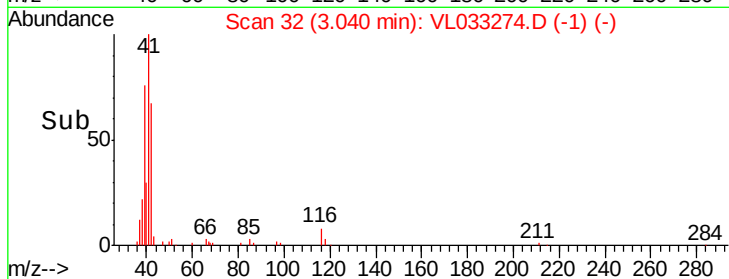
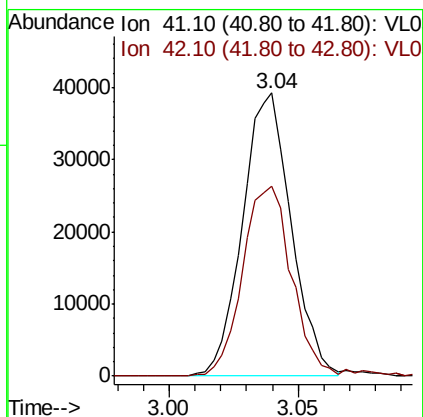
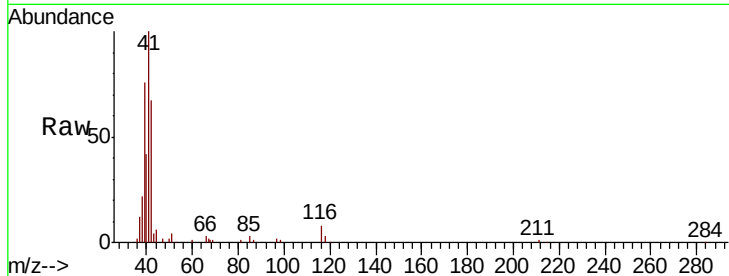
Ion Ratio Lower Upper

41 100

42 68.6 54.6 82.0

Manual Integrations
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3/14/2019 5:05:39 AM



#10

Heptane

Concen: 1.053 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033274.D

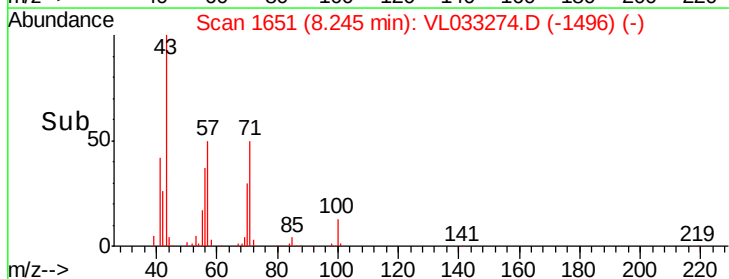
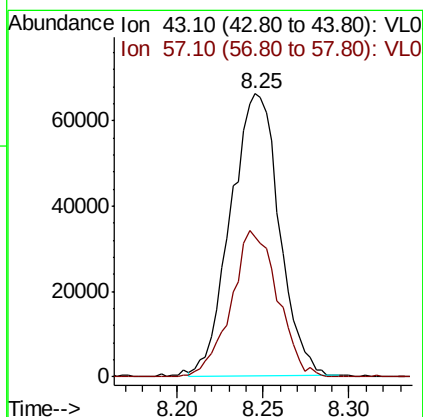
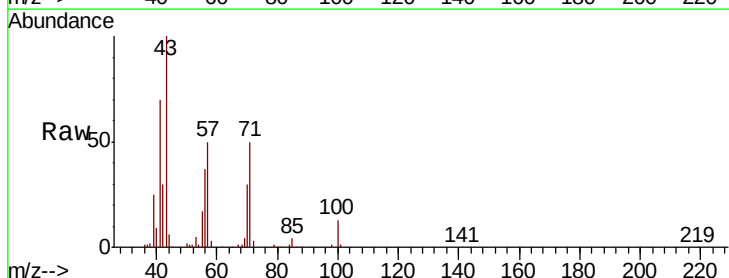
Acq: 12 Mar 2019 3:36

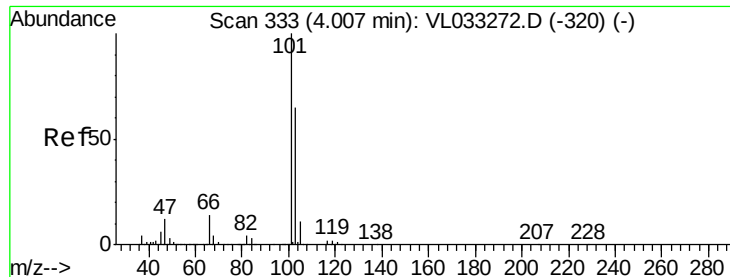
Tgt Ion: 43 Resp: 130041

Ion Ratio Lower Upper

43 100

57 49.5 39.8 59.8





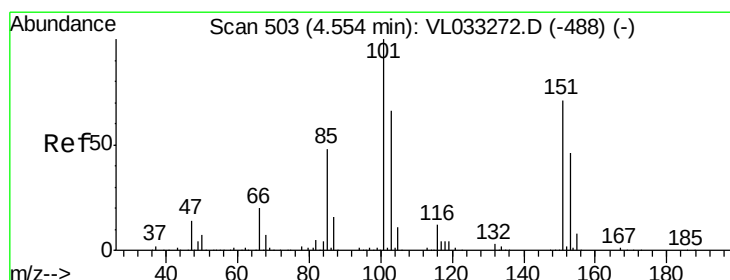
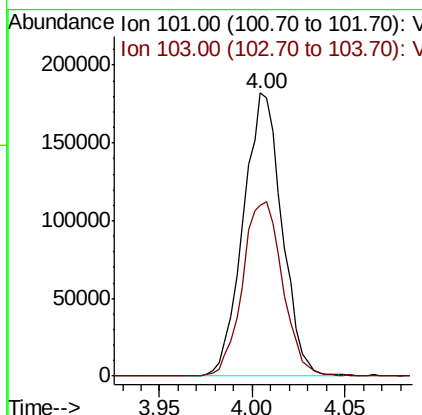
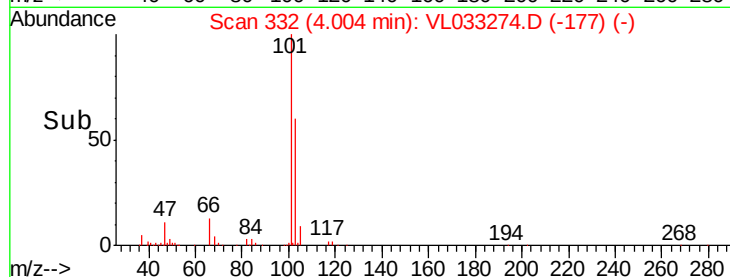
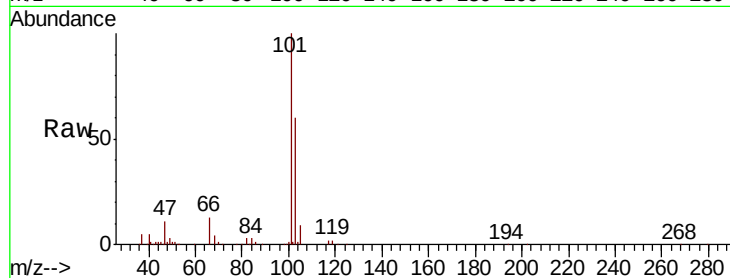
#11
 Trichlorofluoromethane
 Concen: 1.631 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:101 Resp: 263395
 Ion Ratio Lower Upper
 101 100
 103 60.3 51.8 77.8

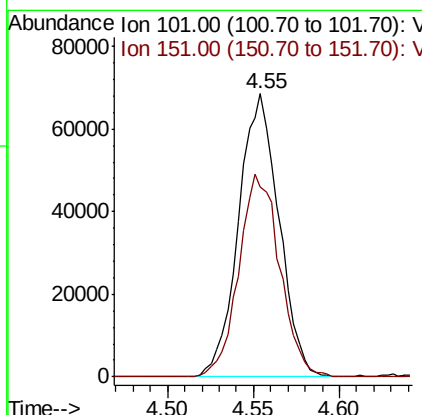
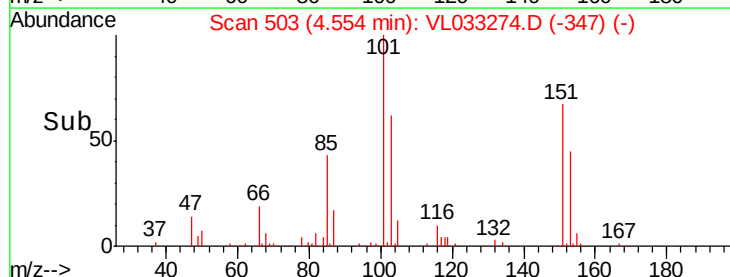
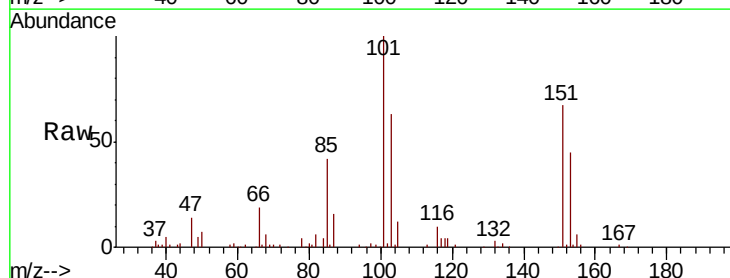
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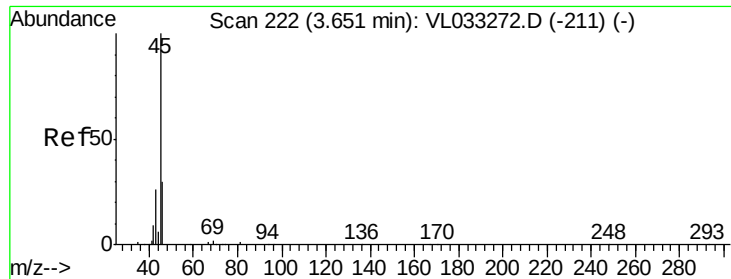
MMDadoda
 3/14/2019 5:05:39 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.102 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion:101 Resp: 111912
 Ion Ratio Lower Upper
 101 100
 151 72.8 56.9 85.3





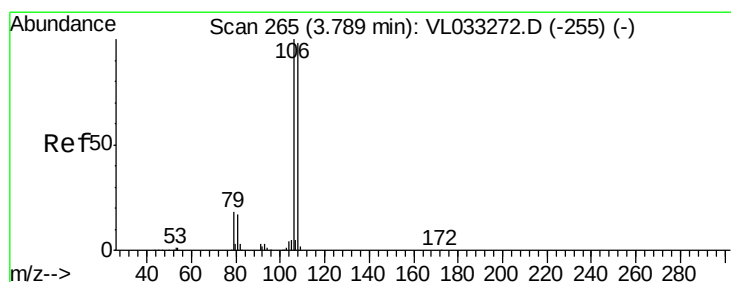
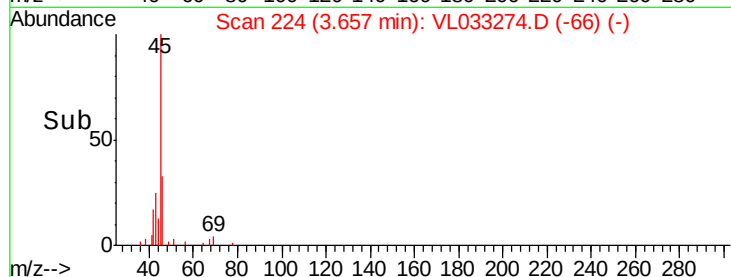
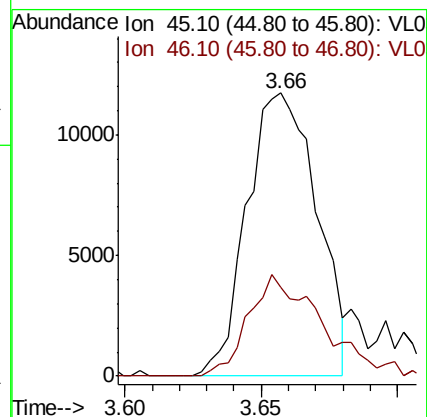
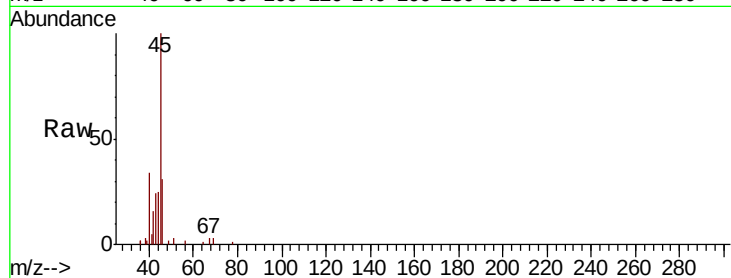
#13
Ethanol
Concen: 1.437 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tgt Ion: 45 Resp: 20894
Ion Ratio Lower Upper
45 100
46 37.7 13.9 55.7

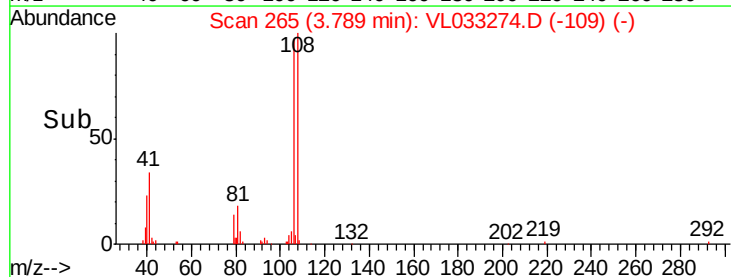
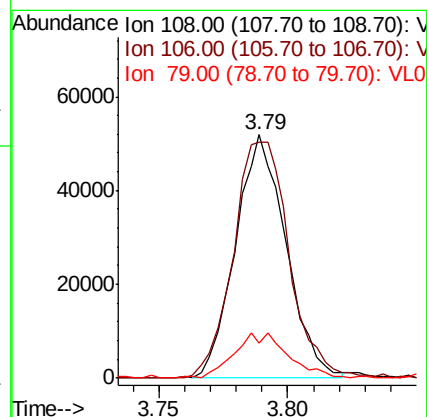
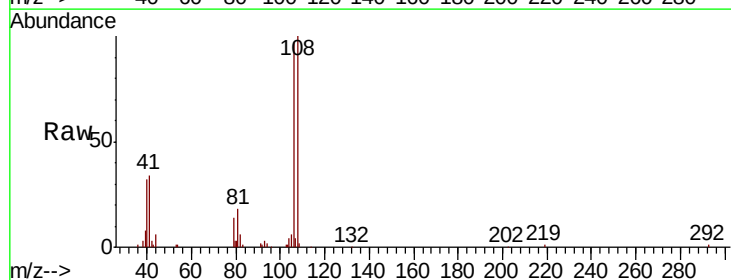
Manual Integrations
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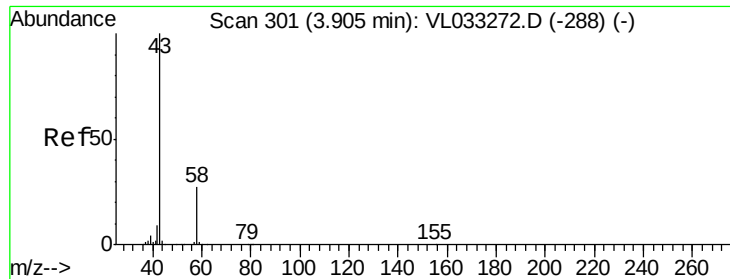
MMDadoda
3/14/2019 5:05:39 AM



#14
Bromoethene
Concen: 1.694 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion: 108 Resp: 70790
Ion Ratio Lower Upper
108 100
106 108.7 85.9 128.9
79 20.5 14.9 22.3





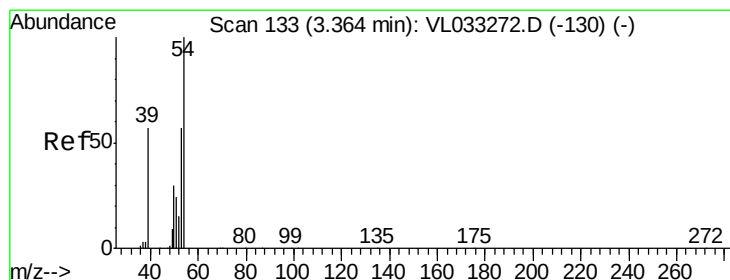
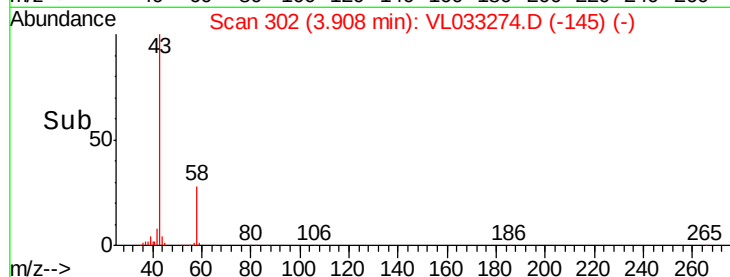
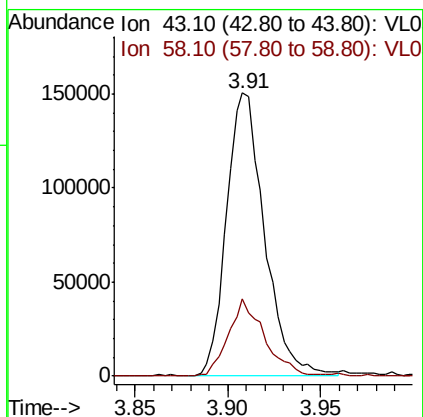
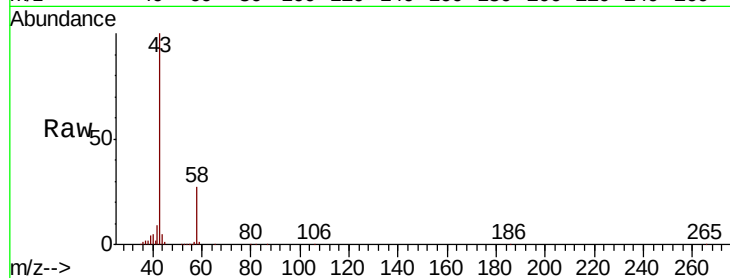
#15
Acetone
Concen: 1.857 ppbv
RT: 3.91 min Scan# 302
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 214997
Ion Ratio Lower Upper
43 100
58 26.3 21.1 31.7

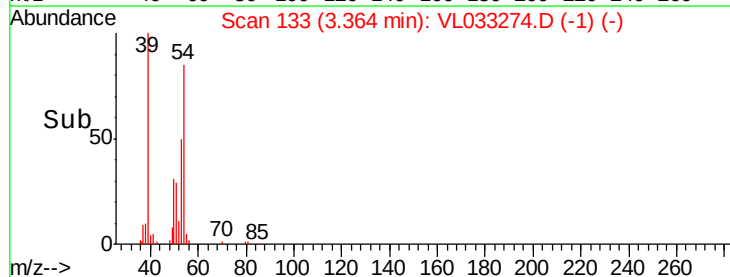
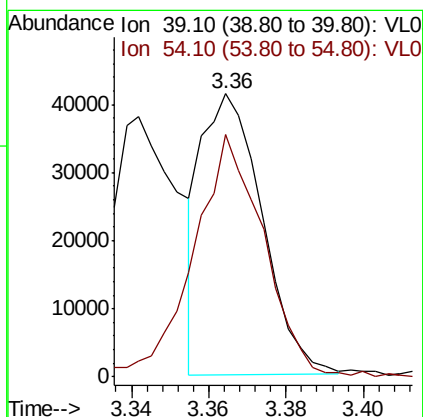
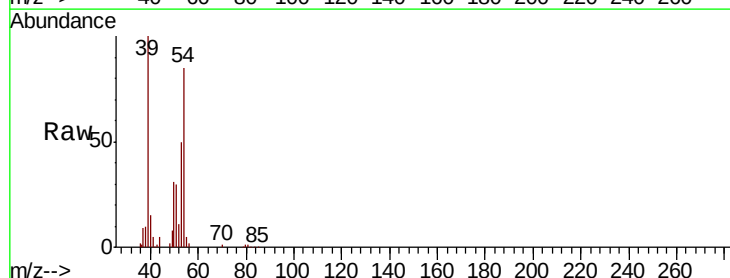
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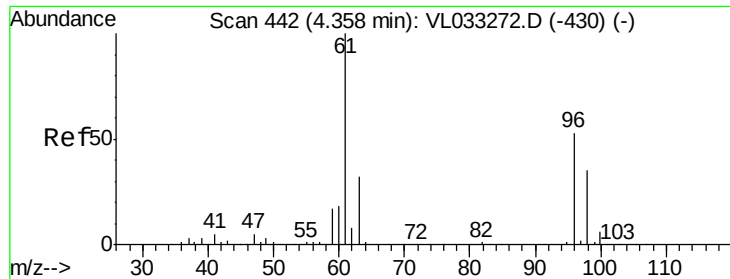
MMDadoda
3/14/2019 5:05:39 AM



#16
1,3-Butadiene
Concen: 0.899 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion: 39 Resp: 44915
Ion Ratio Lower Upper
39 100
54 100.5 76.6 114.8





#17

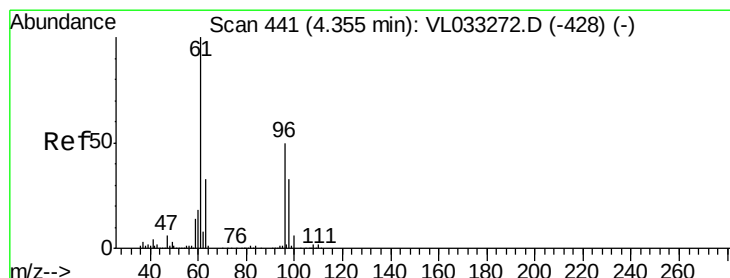
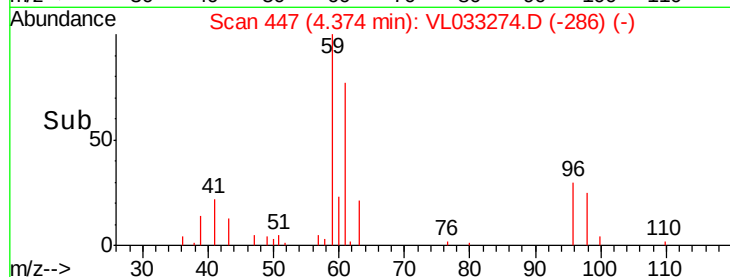
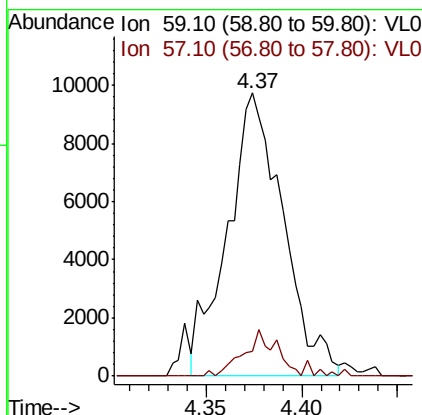
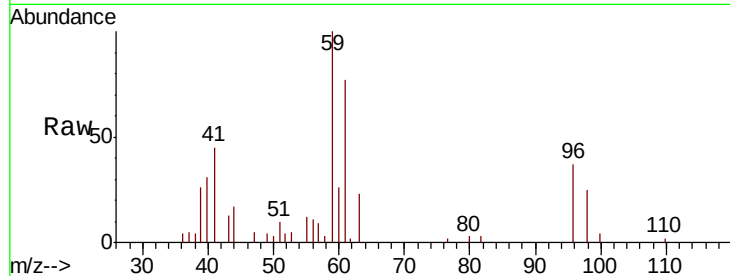
tert-Butyl alcohol
Concen: 1.085 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tgt Ion: 59 Resp: 19722
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#

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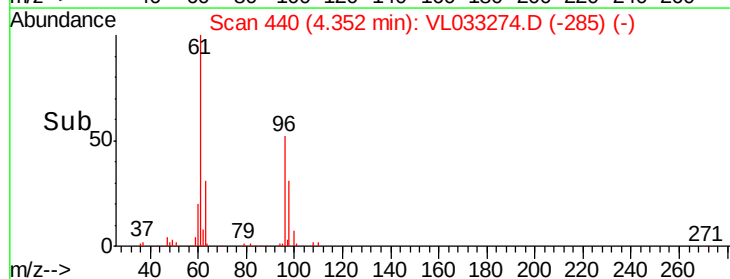
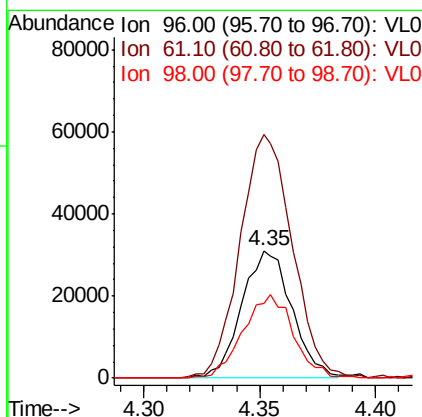
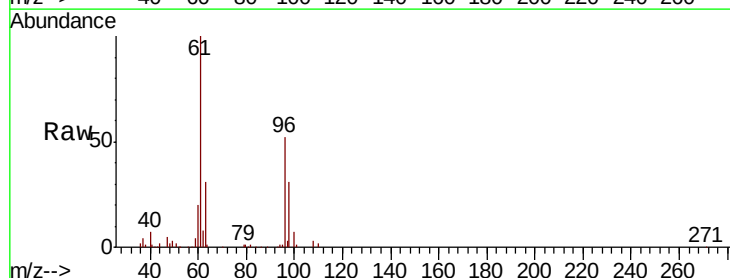
MMDadoda
3/14/2019 5:05:39 AM

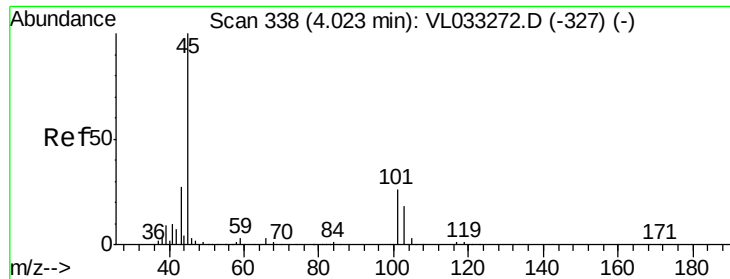


#18

1,1-Dichloroethene
Concen: 1.044 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion: 96 Resp: 46466
Ion Ratio Lower Upper
96 100
61 189.6 158.9 238.3
98 58.2 52.4 78.6





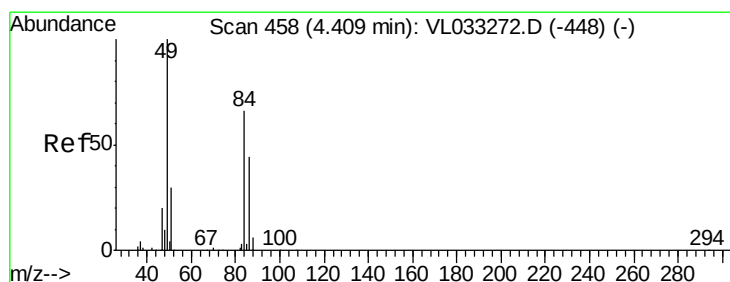
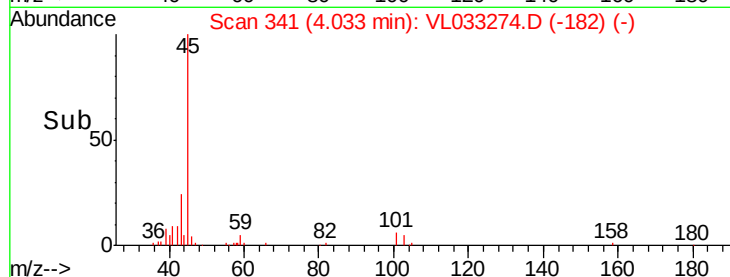
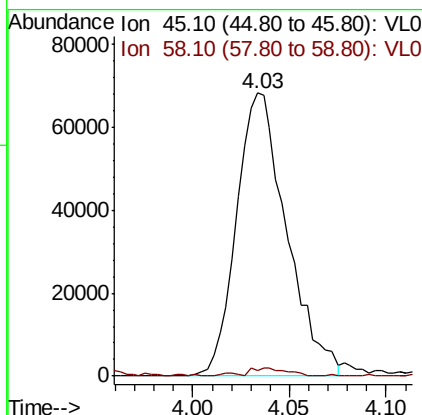
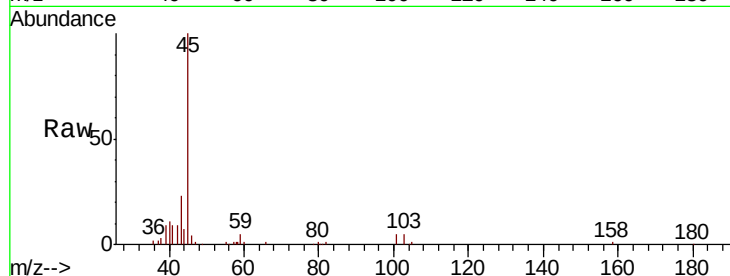
#19
Isopropyl Alcohol
Concen: 1.774 ppbv
RT: 4.03 min Scan# 341
Delta R.T. 0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 45 Resp: 123189
Ion Ratio Lower Upper
45 100
58 2.7 1.4 2.2#

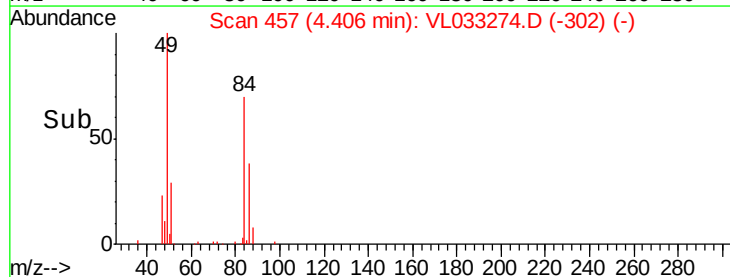
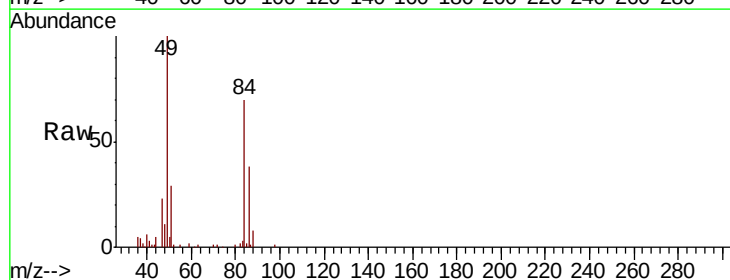
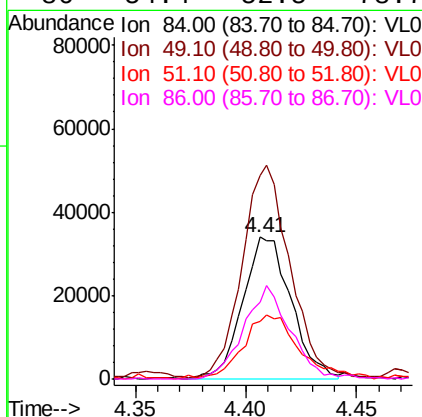
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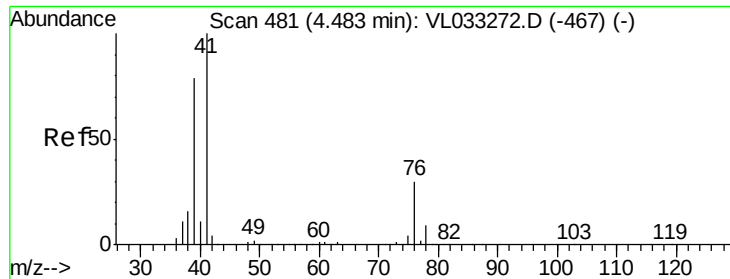
MMDadoda
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#20
Methylene Chloride
Concen: 1.129 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion: 84 Resp: 51613
Ion Ratio Lower Upper
84 100
49 142.7 120.3 180.5
51 38.2 36.2 54.4
86 54.4 52.5 78.7





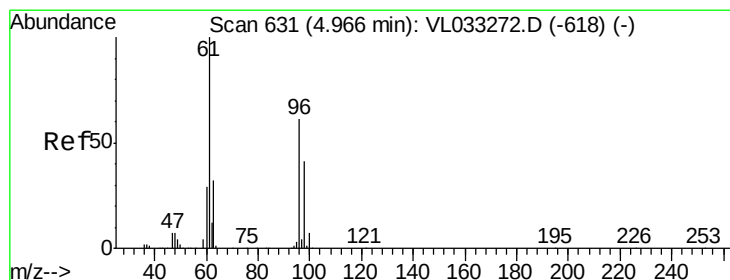
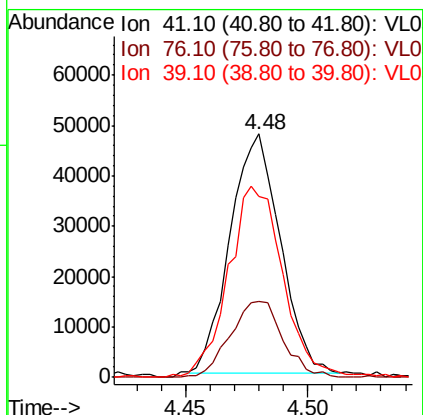
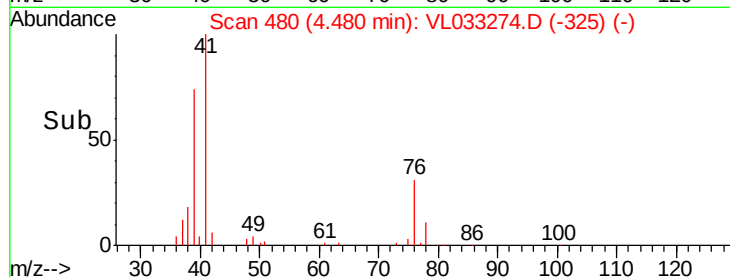
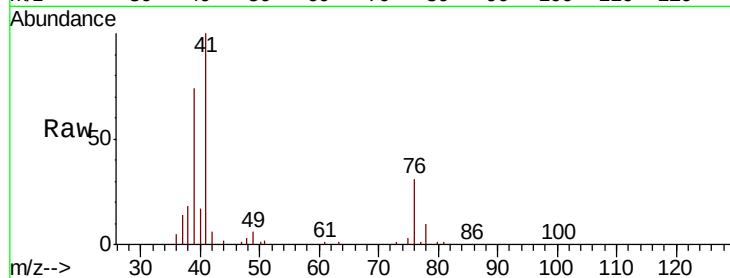
#21
 Allyl Chloride
 Concen: 1.018 ppbv
 RT: 4.48 min Scan# 480
 Delta R.T. -0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
41	100		
76	33.4	25.0	37.4
39	87.3	64.2	96.4

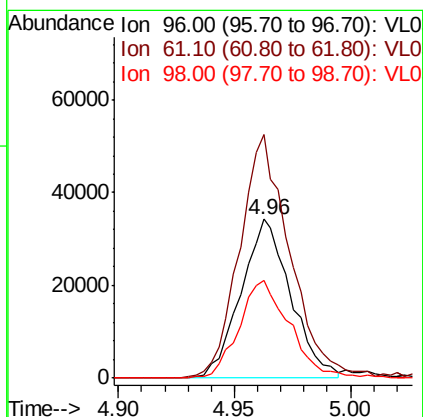
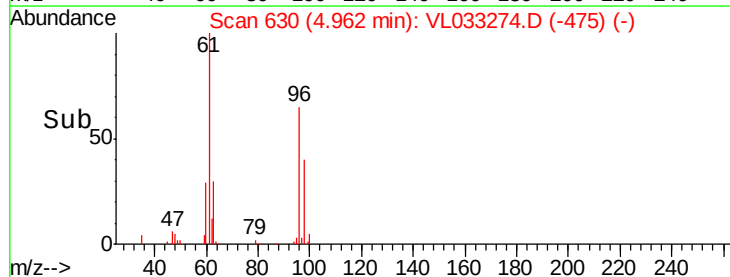
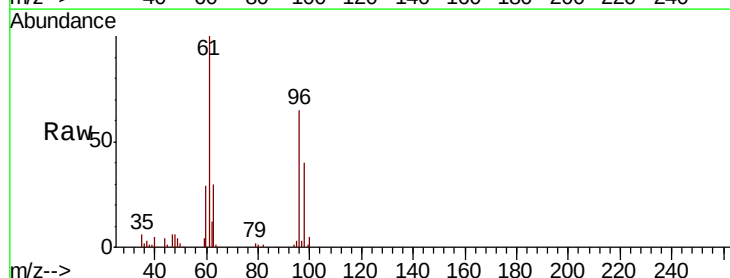
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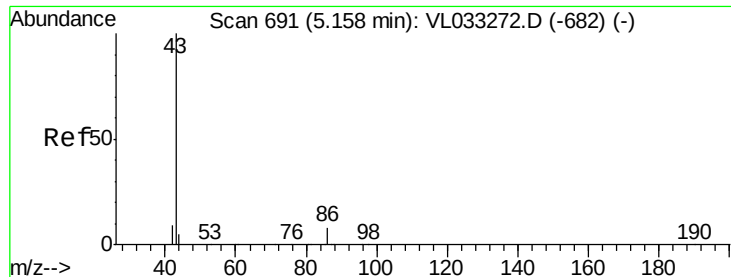
MMDadoda
 3/14/2019 5:05:39 AM



#22
 trans-1,2-Dichloroethene
 Concen: 1.081 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.6	131.6	197.4
98	60.9	54.1	81.1





#23

Vinyl Acetate

Concen: 1.106 ppbv

RT: 5.16 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

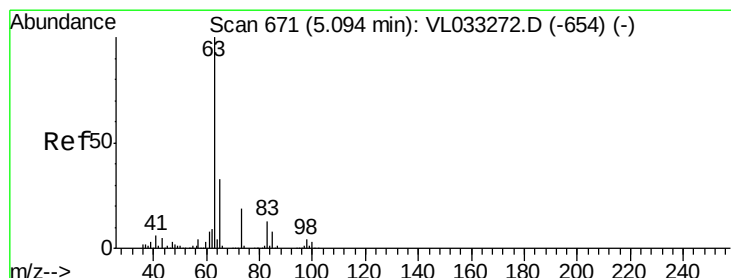
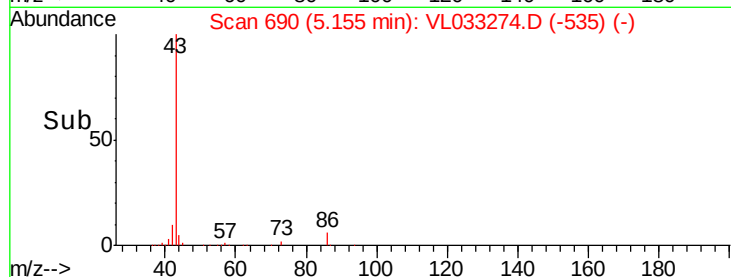
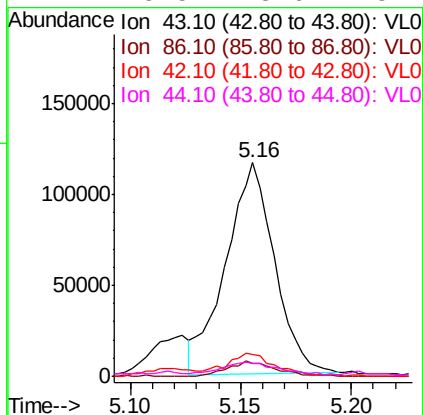
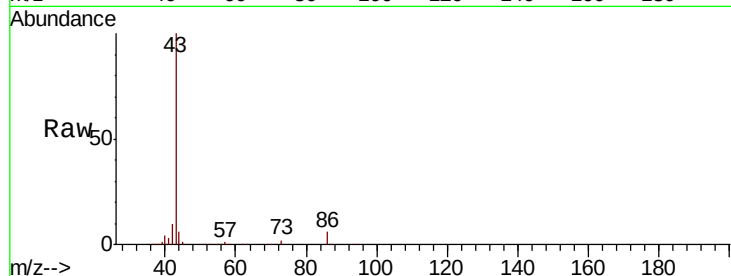
ClientSampleId :

VSTDIC001

Tgt Ion	Ratio	Lower	Upper
43	100		
86	6.2	5.5	8.3
42	9.7	7.8	11.6
44	5.5	3.6	5.4#

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#24

1,1-Dichloroethane

Concen: 1.072 ppbv

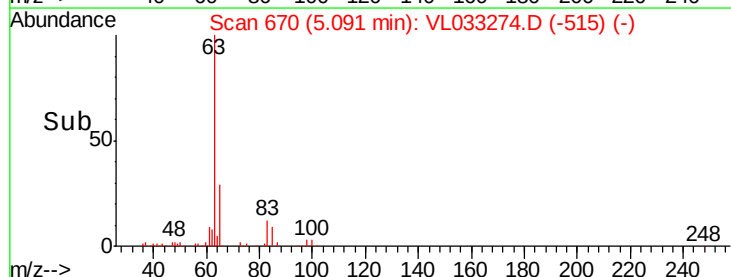
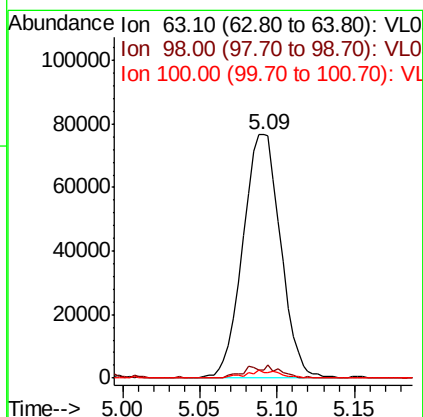
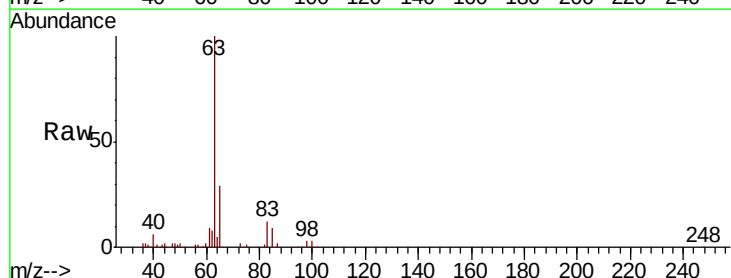
RT: 5.09 min Scan# 670

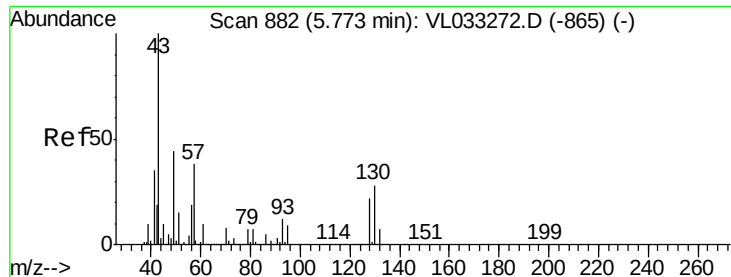
Delta R.T. -0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.1	2.2	6.6
100	2.5	1.5	4.4





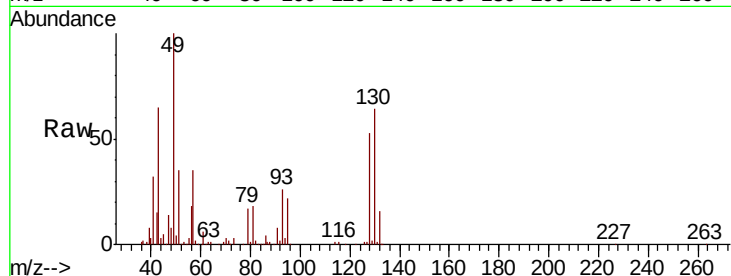
#25
Ethyl Acetate
Concen: 1.108 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

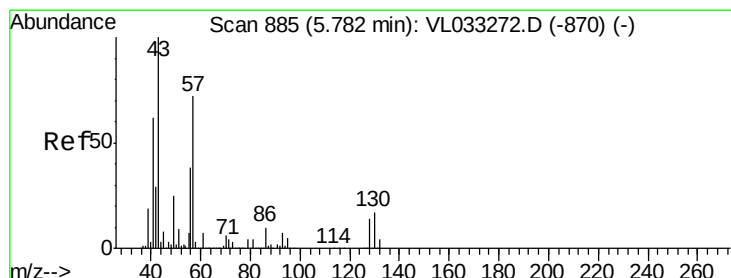
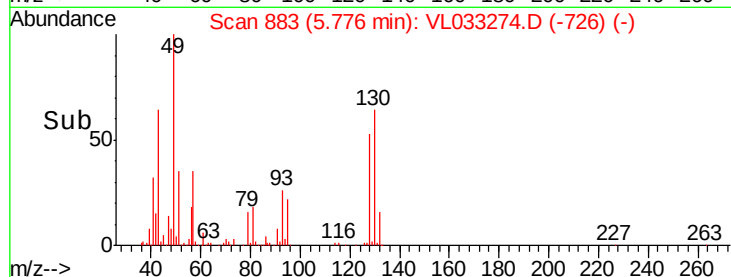
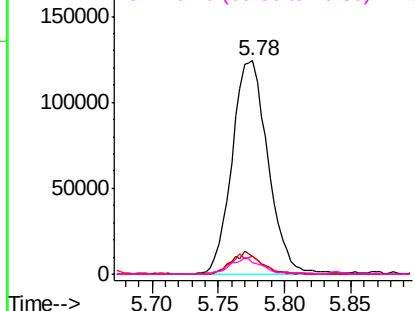
Tgt Ion	Ratio	Lower	Upper
43	100		
45	8.8	7.8	11.6
61	8.4	7.3	10.9
70	6.2	5.8	8.6

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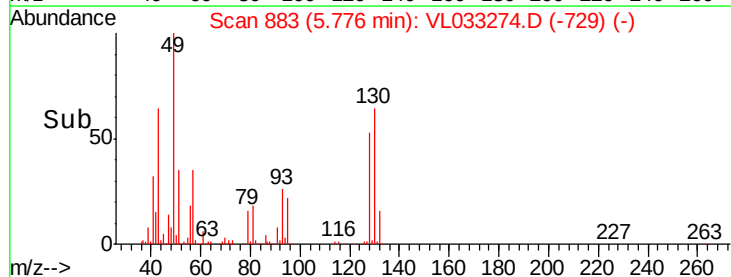
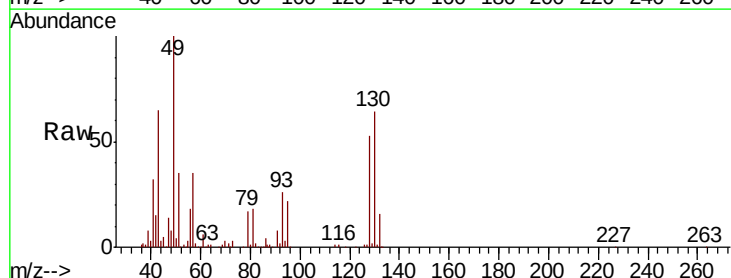
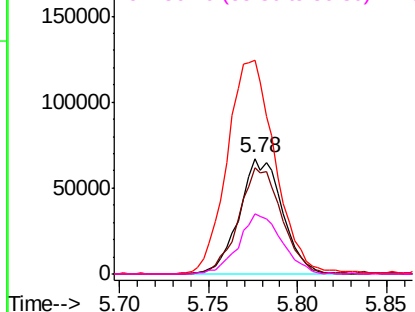
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

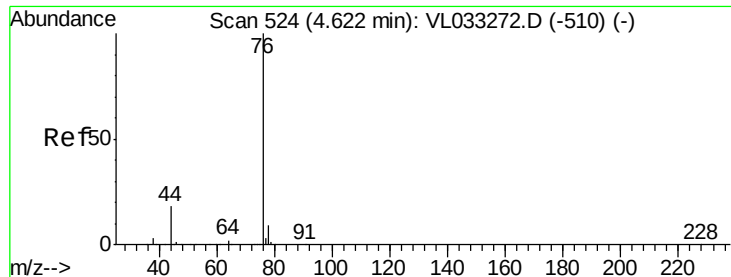


#26
Hexane
Concen: 1.133 ppbv m
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.3	70.7	106.1
43	208.4	178.6	267.8
56	52.1	41.3	61.9

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 1.047 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

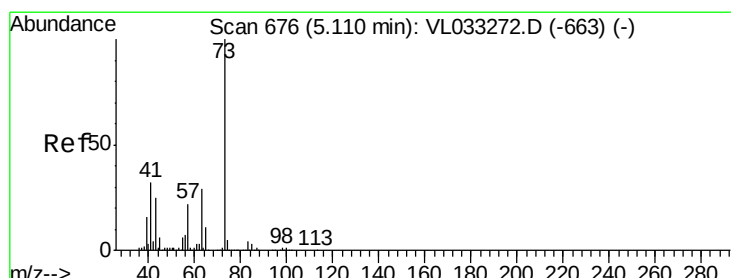
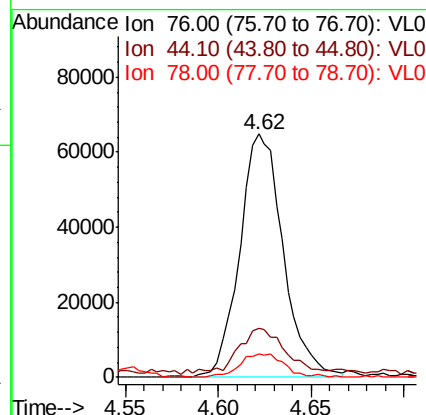
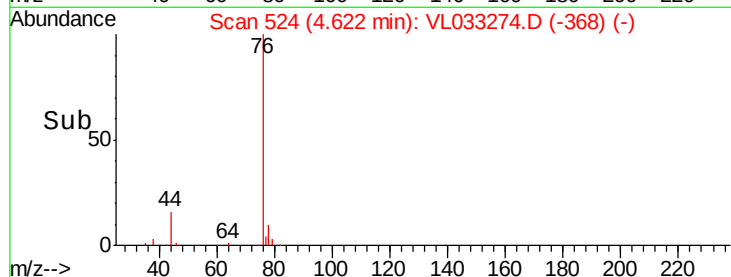
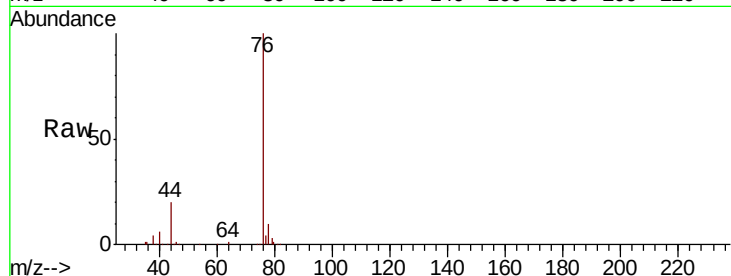
ClientSampleId :

VSTDIC001

Tgt Ion:	76	Resp:	105891
Ion	Ratio	Lower	Upper
76	100		
44	20.2	15.1	22.7
78	10.2	7.4	11.0

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#28

Methyl tert-Butyl Ether

Concen: 1.117 ppbv

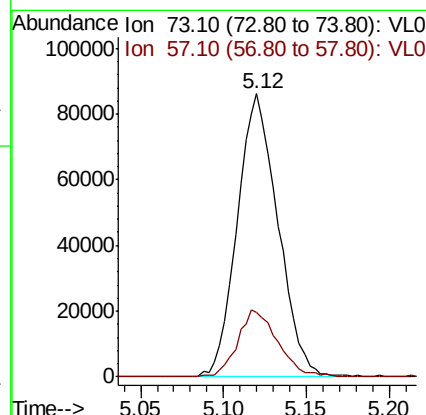
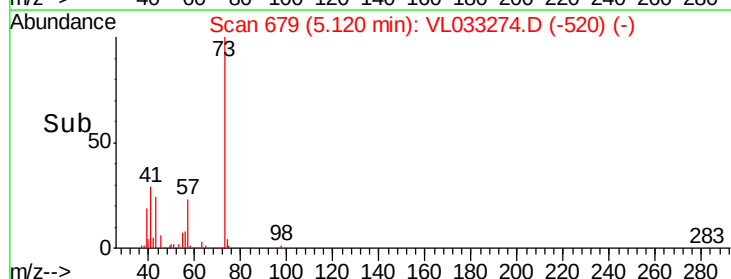
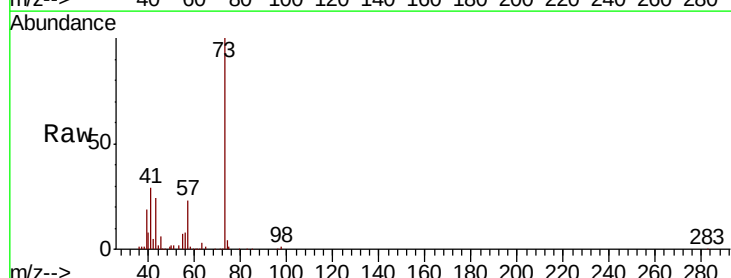
RT: 5.12 min Scan# 679

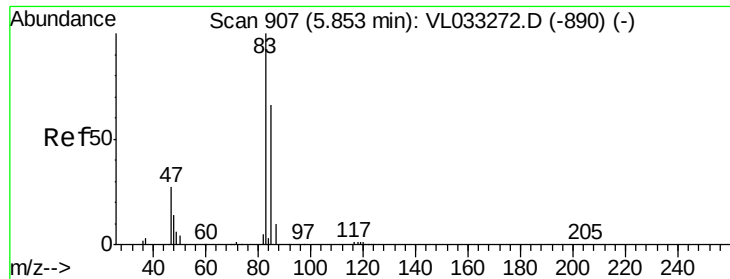
Delta R.T. 0.01 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Tgt Ion:	73	Resp:	147168
Ion	Ratio	Lower	Upper
73	100		
57	23.2	17.9	26.9





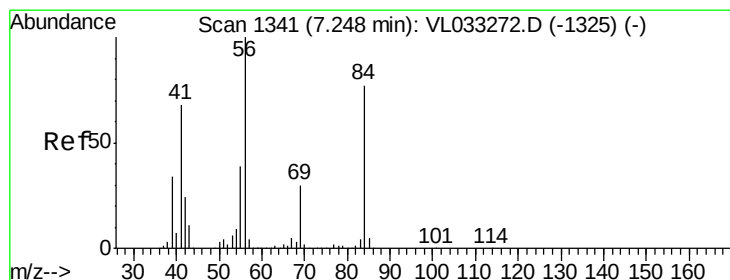
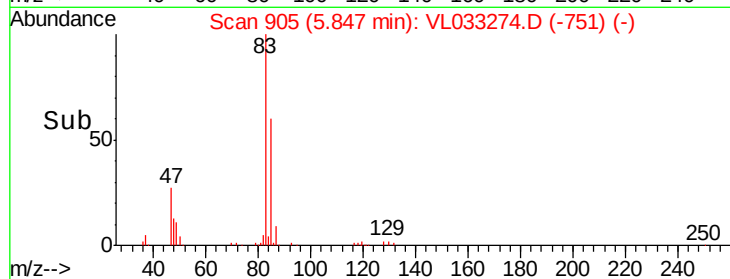
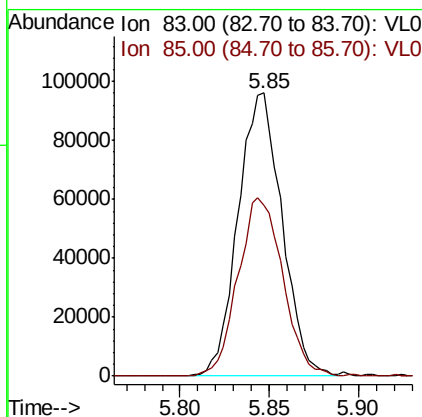
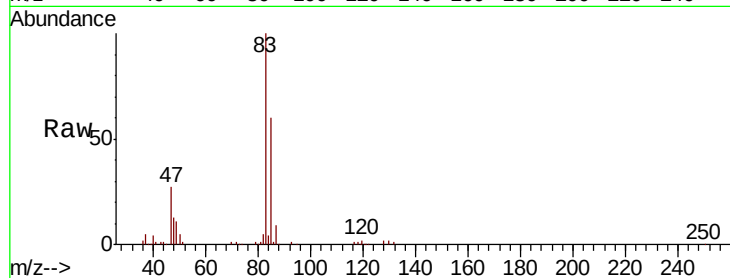
#29
Chloroform
Concen: 1.090 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.1	52.5	78.7

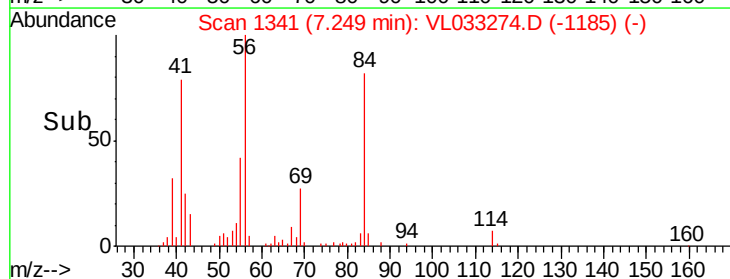
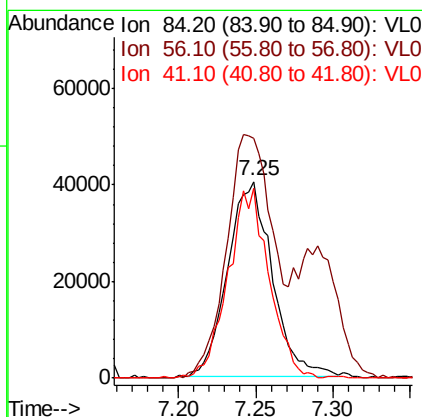
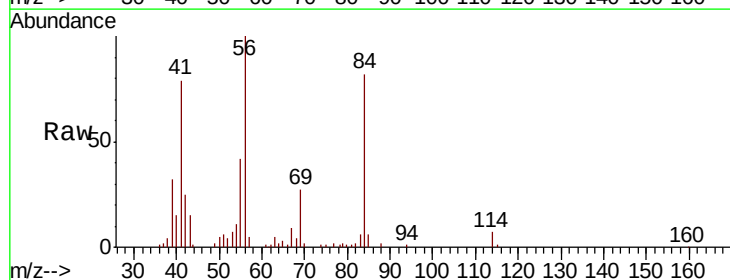
Manual Integrations
APPROVED

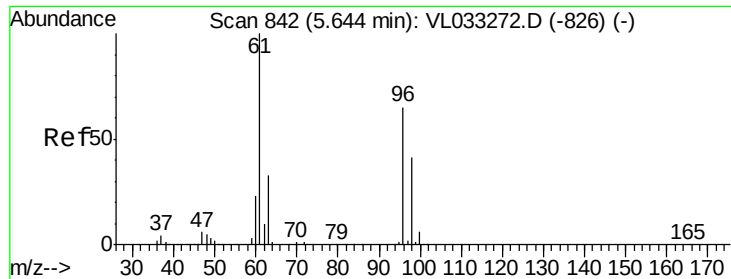
MMDadoda
3/14/2019 5:05:39 AM



#30
Cyclohexane
Concen: 1.078 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
84	100		
56	194.3	112.0	168.0#
41	90.4	69.9	104.9





#31

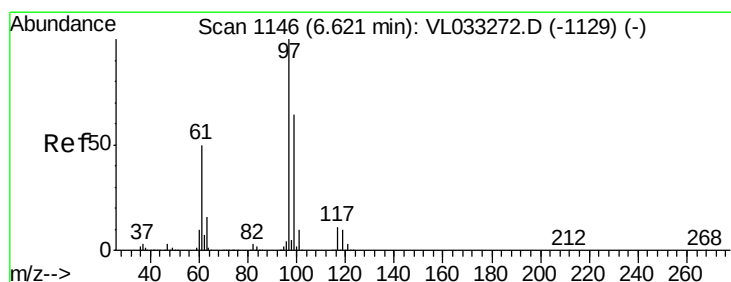
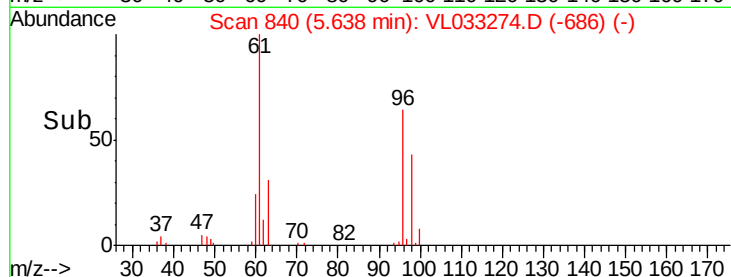
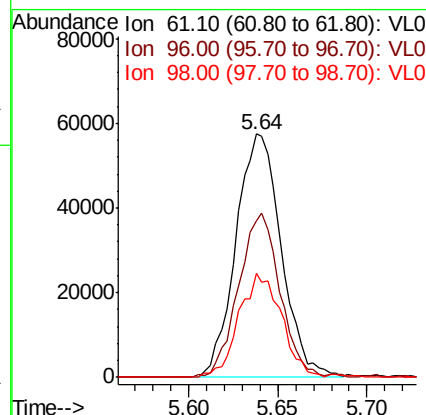
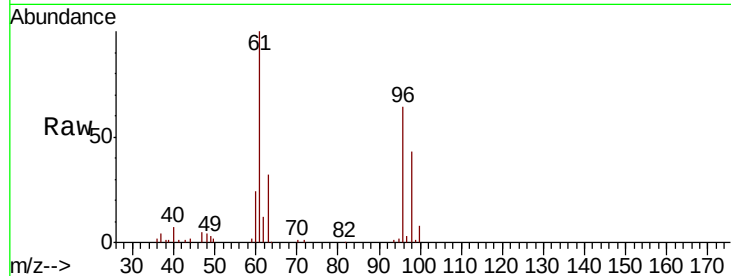
cis-1,2-Dichloroethene
 Concen: 1.073 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
61	100	101212		
96	64.3	51.8	77.8	
98	42.2	32.9	49.3	

Manual Integrations
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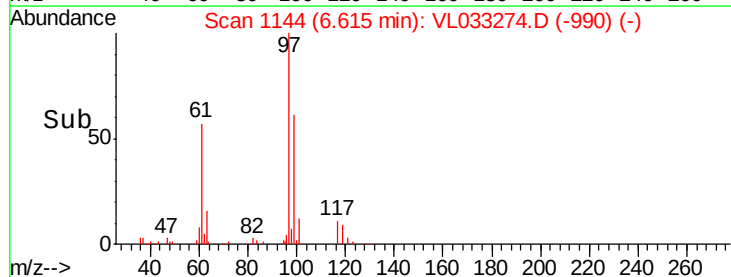
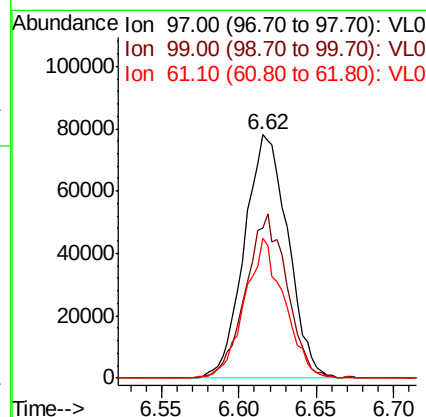
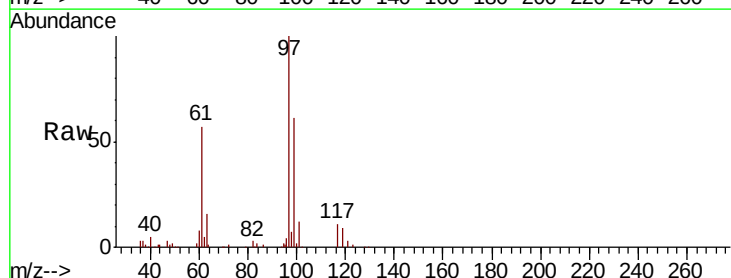
MMDadoda
 3/14/2019 5:05:39 AM

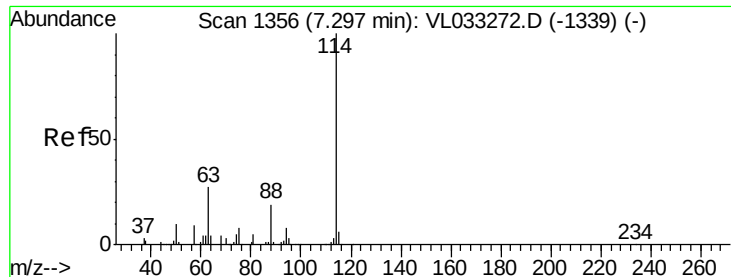


#32

1,1,1-Trichloroethane
 Concen: 1.071 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	153341		
99	63.4	51.7	77.5	
61	52.0	39.7	59.5	





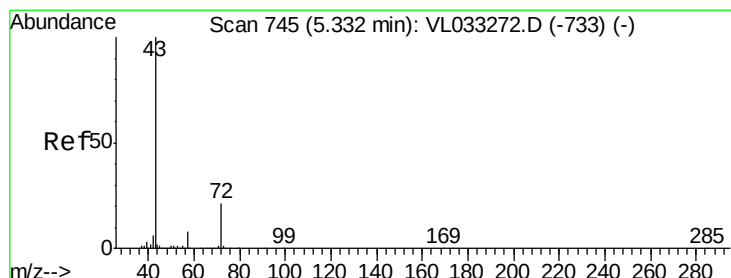
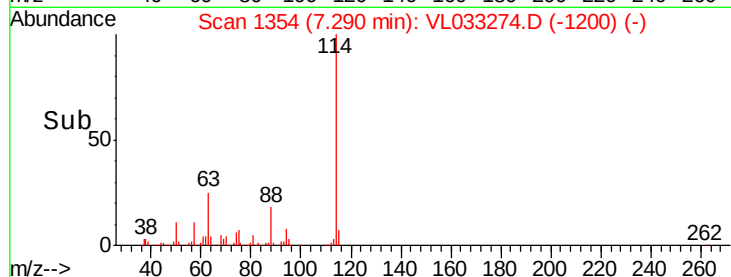
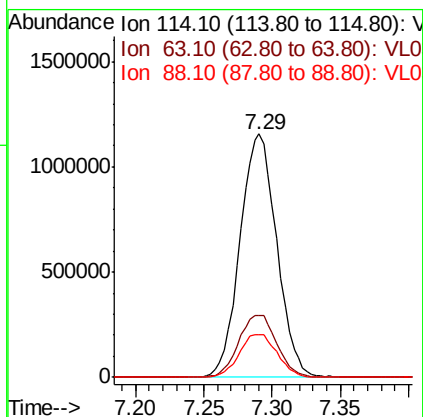
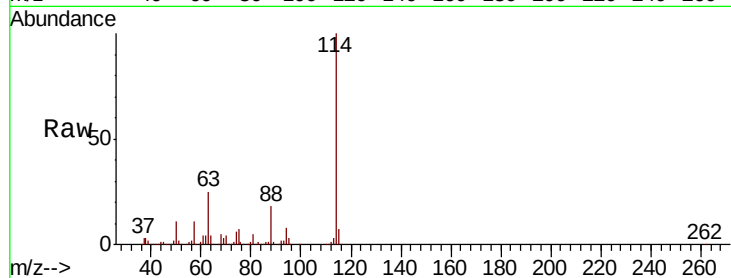
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.5	32.3
88	18.3	14.6	22.0

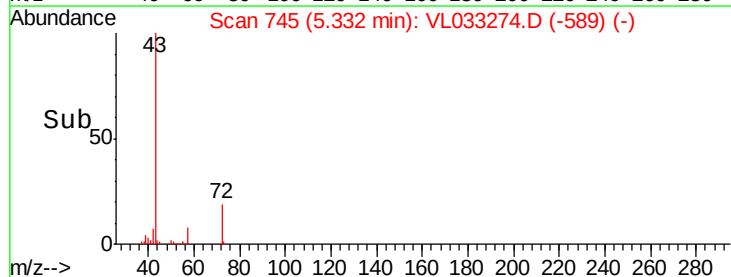
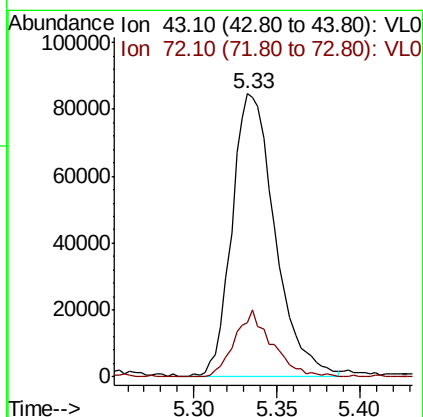
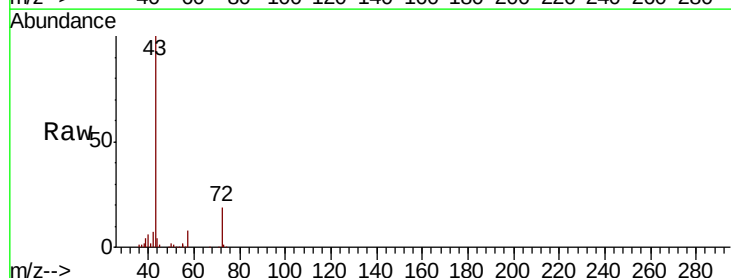
Manual Integrations
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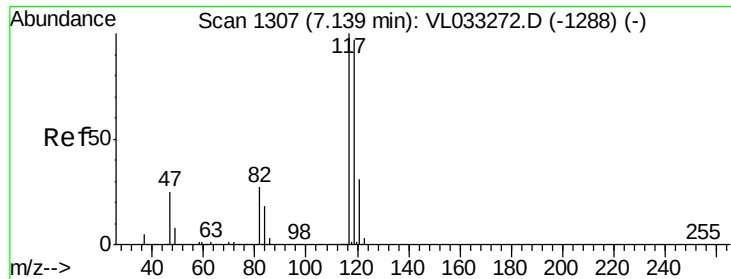
MMDadoda
 3/14/2019 5:05:39 AM



#34
 2-Butanone
 Concen: 1.134 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	17.0	25.6





#35

Carbon Tetrachloride

Concen: 1.052 ppbv m

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

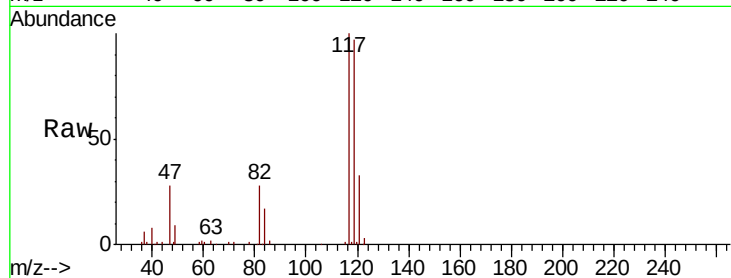
ClientSampleId :

VSTDIC001

Tgt Ion:	117	Resp:	155513
Ion Ratio	Lower	Upper	
117	100		
119	97.3	77.4	116.0
121	32.8	24.9	37.3

Manual Integrations
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MMDadoda
3/14/2019 5:05:39 AM

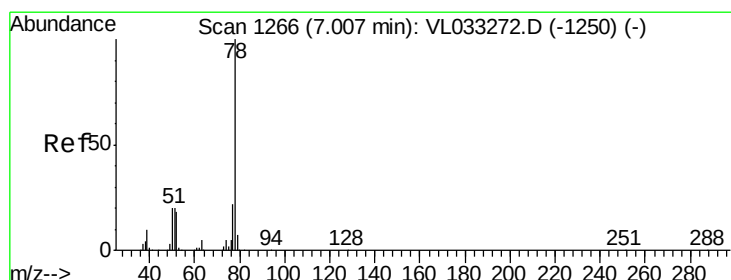
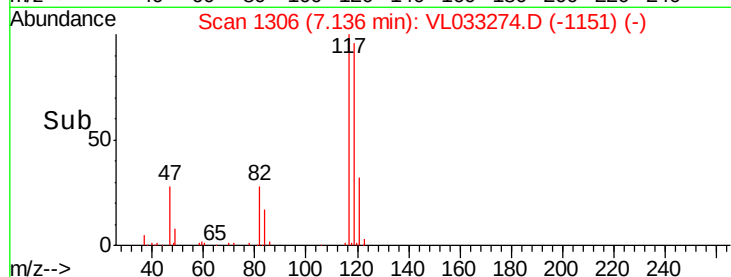
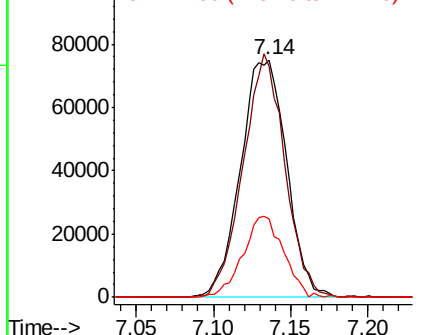


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.087 ppbv

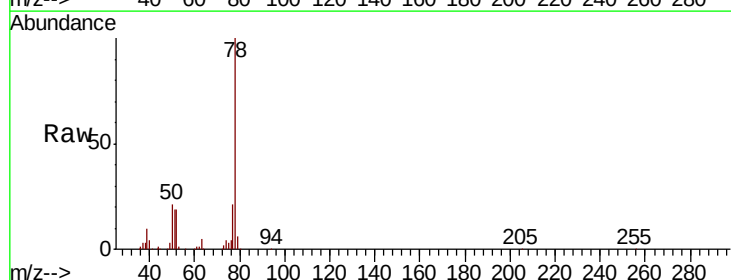
RT: 7.00 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Tgt Ion:	78	Resp:	207305
Ion Ratio	Lower	Upper	
78	100		
77	21.0	17.7	26.5
50	20.7	15.7	23.5

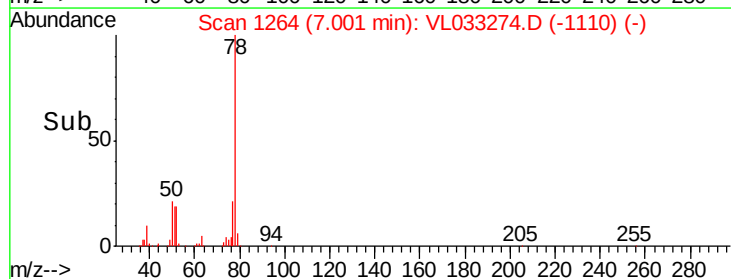
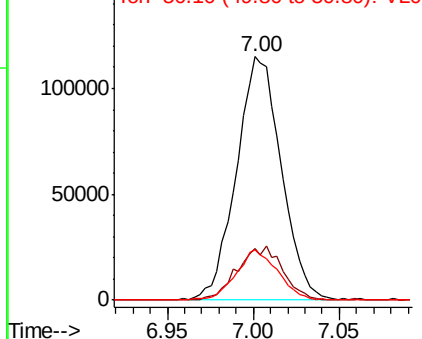


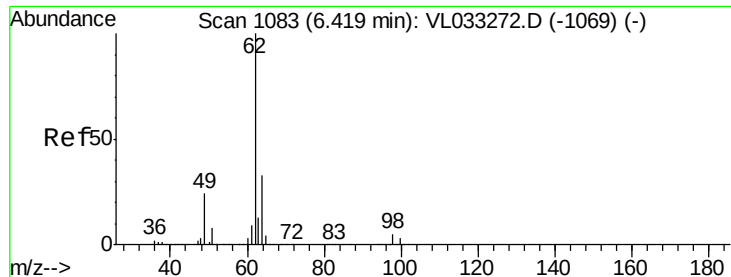
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





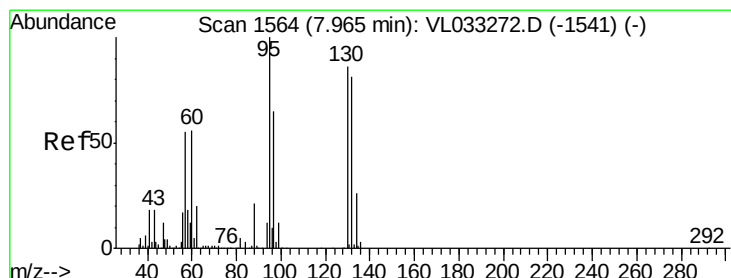
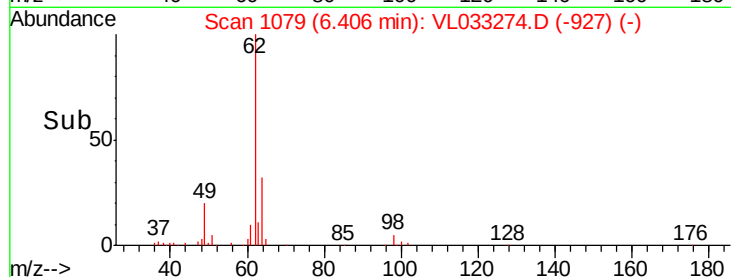
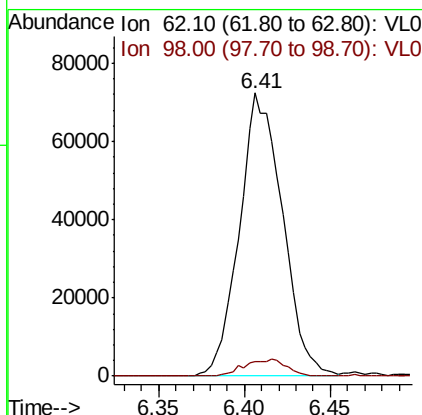
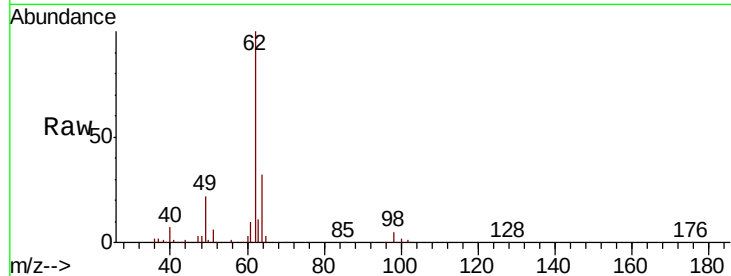
#37
 1,2-Dichloroethane
 Concen: 1.036 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Resp Lower	Upper
62	100		
98	6.0	4.5	6.7

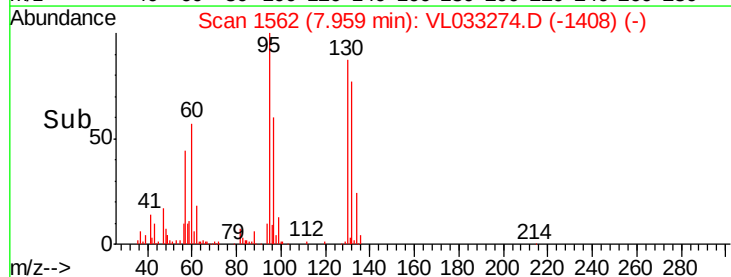
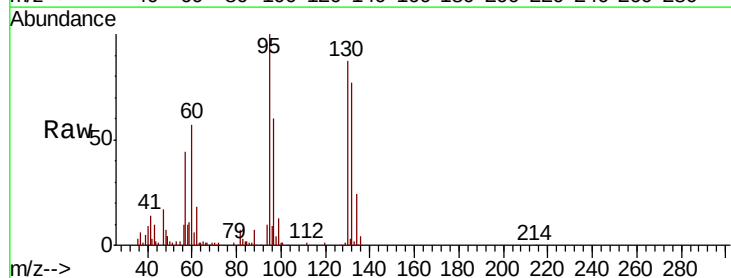
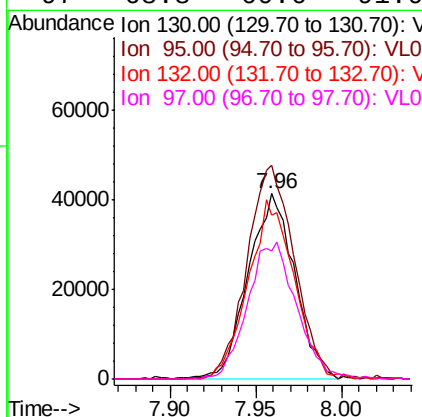
Manual Integrations
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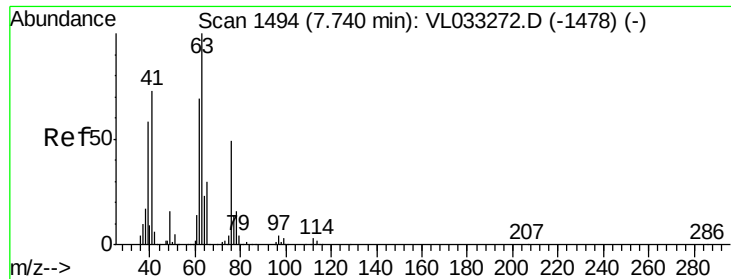
MMDadoda
 3/14/2019 5:05:39 AM



#38
 Trichloroethene
 Concen: 1.075 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Resp Lower	Upper
130	100		
95	115.2	93.3	139.9
132	88.2	75.4	113.2
97	68.8	60.6	91.0





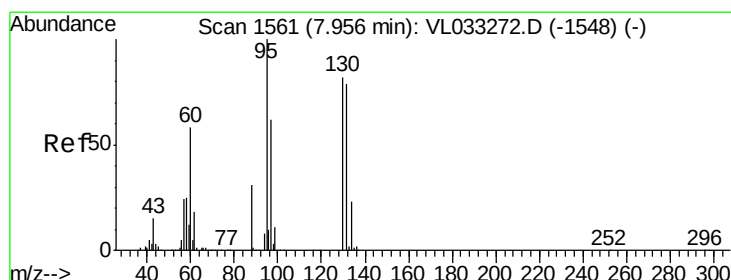
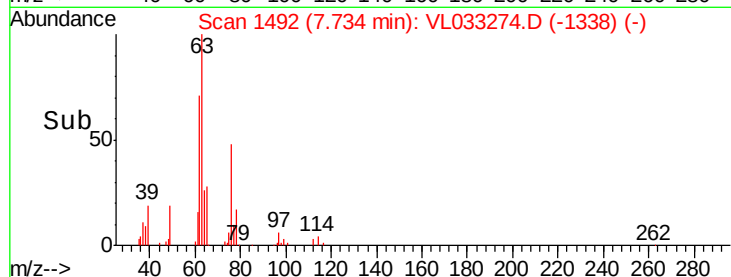
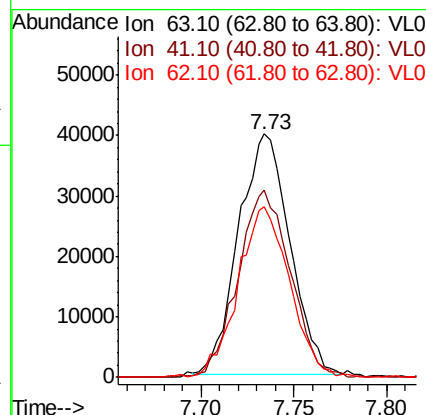
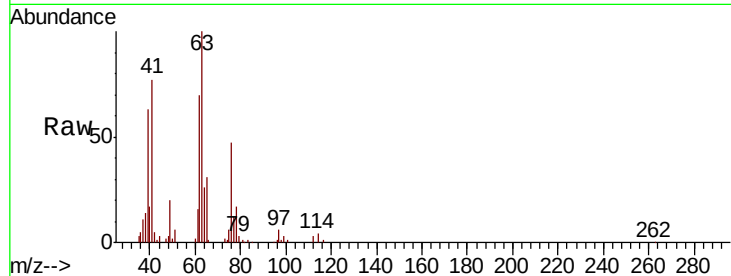
#39
 1,2-Dichloropropane
 Concen: 1.052 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
63	100		
41	77.5	58.3	87.5
62	68.5	55.3	82.9

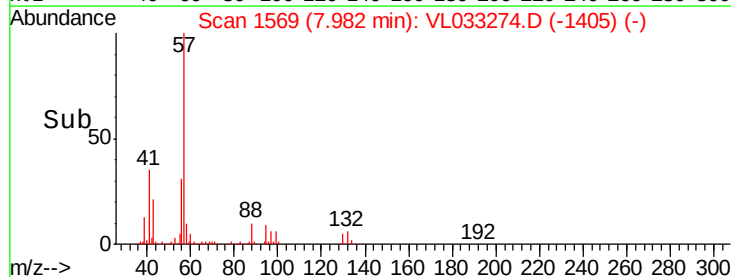
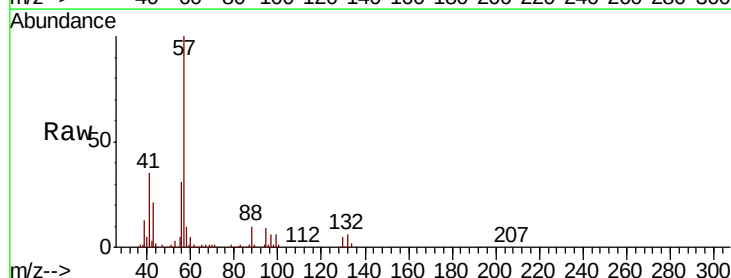
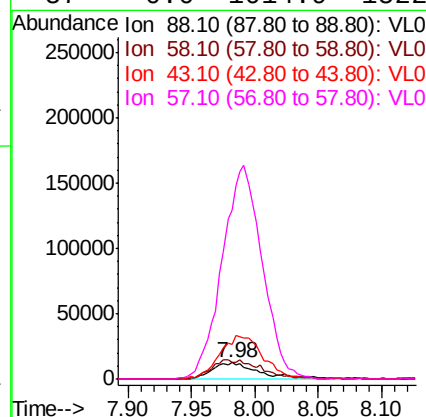
Manual Integrations
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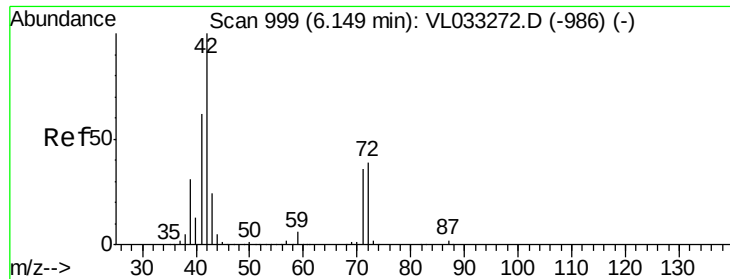
MMDadoda
 3/14/2019 5:05:39 AM



#40
 1,4-Dioxane
 Concen: 1.207 ppbv m
 RT: 7.98 min Scan# 1569
 Delta R.T. 0.03 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.0	160.6#
43	0.0	230.2	345.4#
57	0.0	1014.9	1522.3#





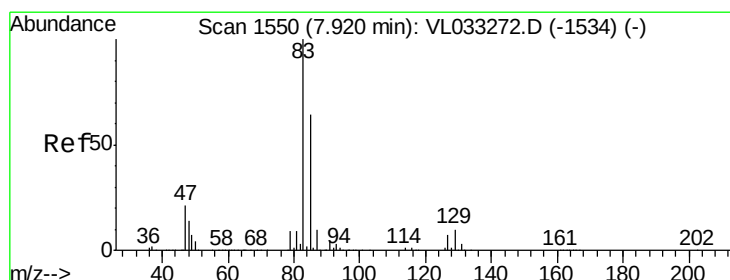
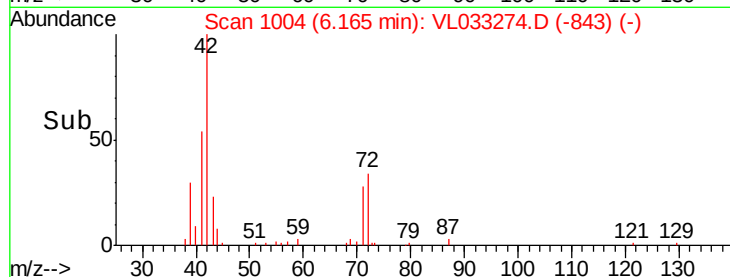
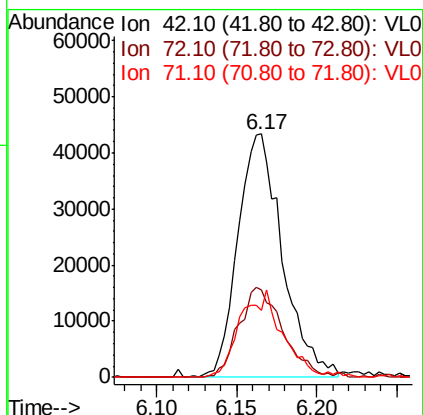
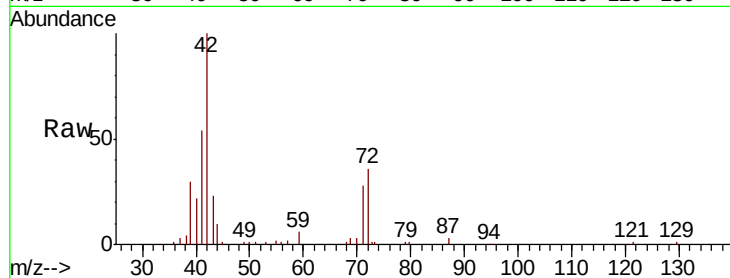
#41
Tetrahydrofuran
Concen: 1.090 ppbv
RT: 6.17 min Scan# 1004
Delta R.T. 0.02 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.0	30.6	46.0
71	34.3	29.7	44.5

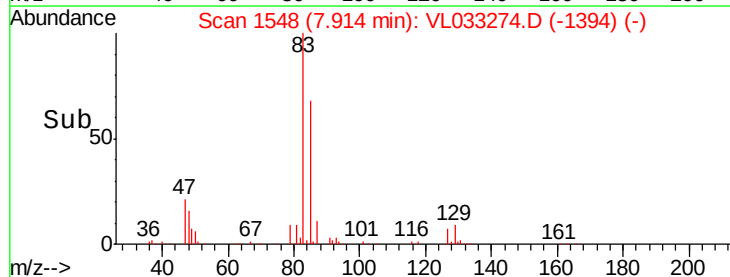
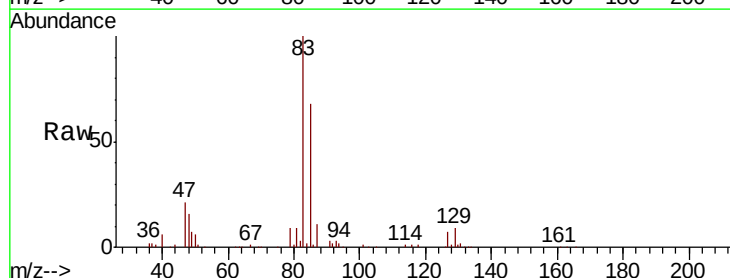
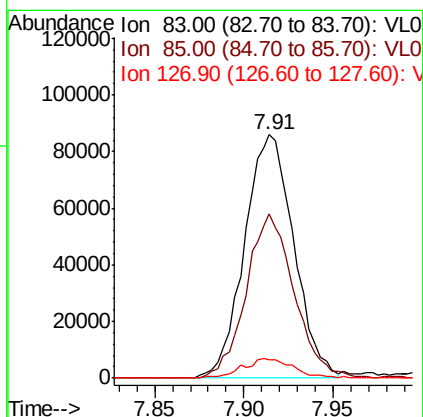
Manual Integrations
APPROVED

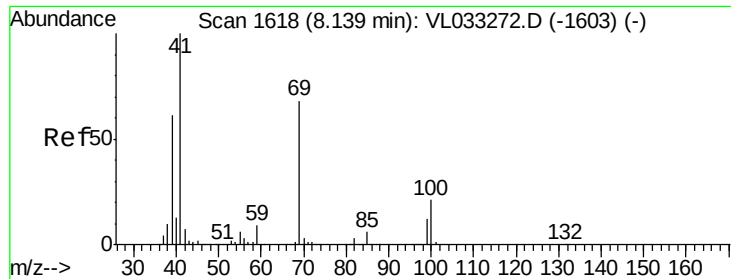
MMDadoda
3/14/2019 5:05:39 AM



#42
Bromodichloromethane
Concen: 1.020 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.7	51.0	76.4
127	7.5	6.0	9.0





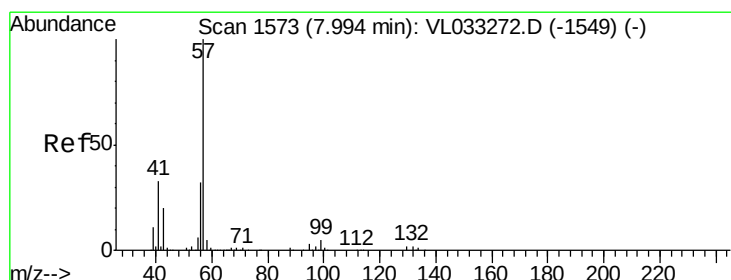
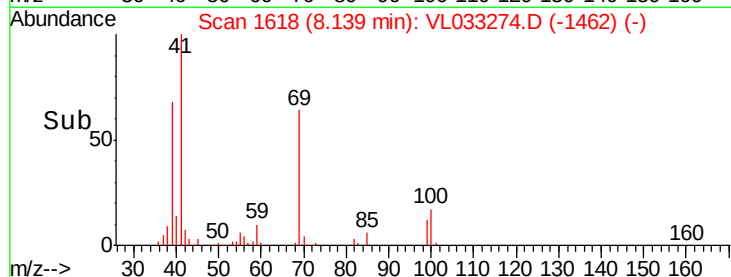
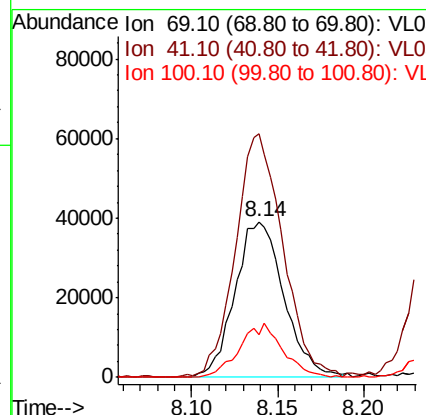
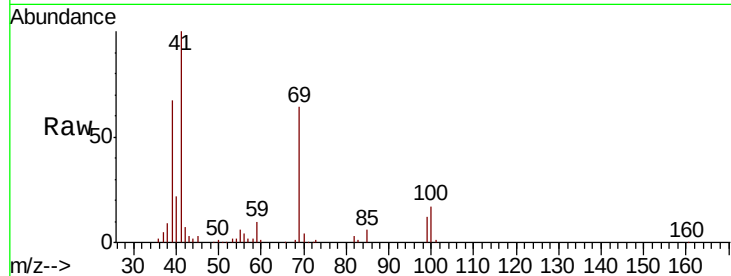
#43
Methyl Methacrylate
Concen: 1.037 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
69	100		
41	153.0	121.0	181.4
100	30.8	24.4	36.6

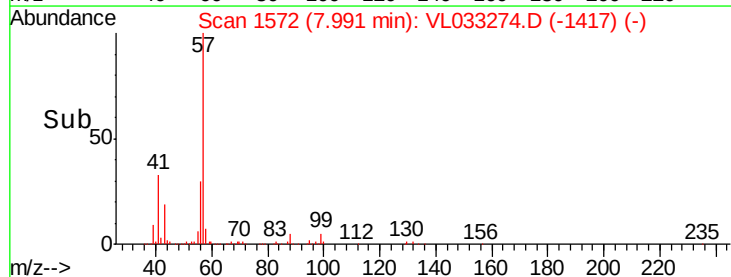
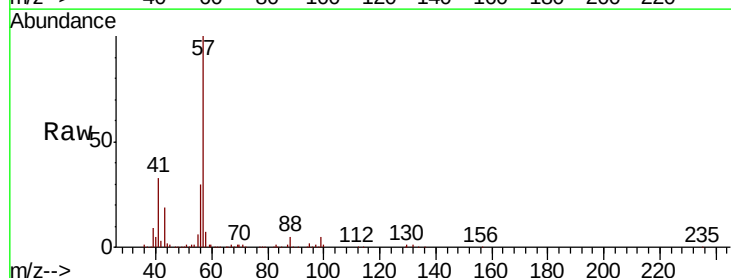
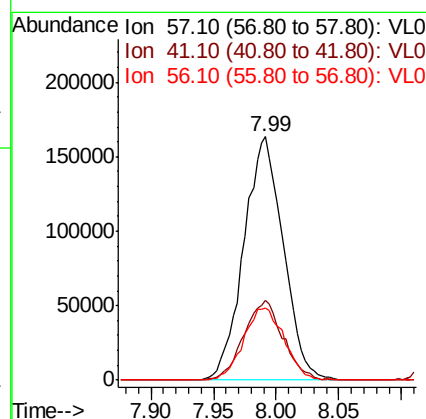
Manual Integrations
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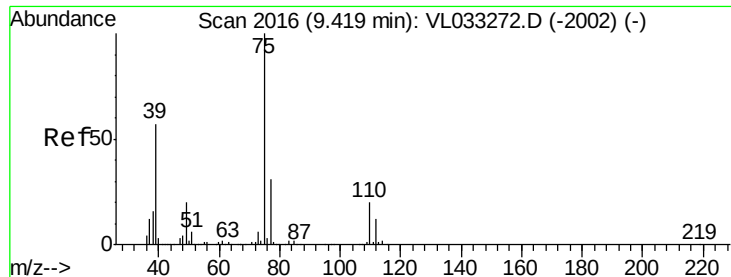
MMDadoda
3/14/2019 5:05:39 AM



#44
2,2,4-Trimethylpentane
Concen: 1.087 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.7	26.2	39.2
56	30.6	24.8	37.2





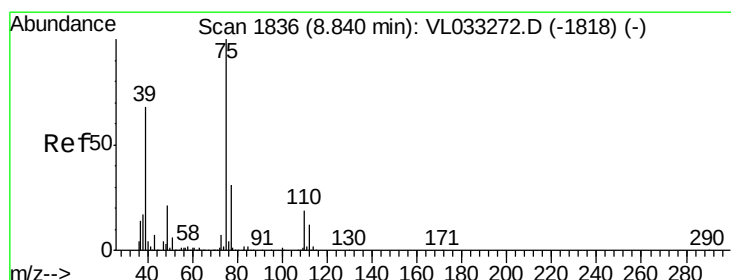
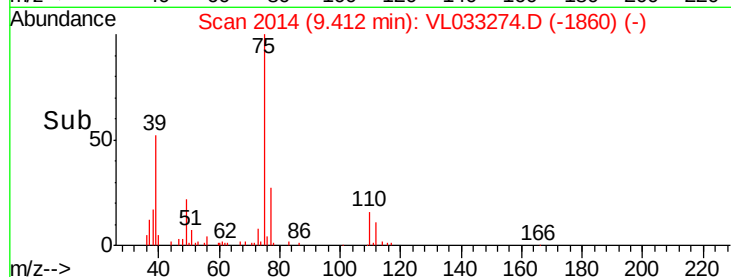
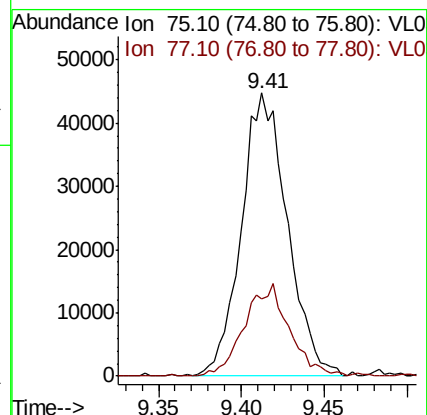
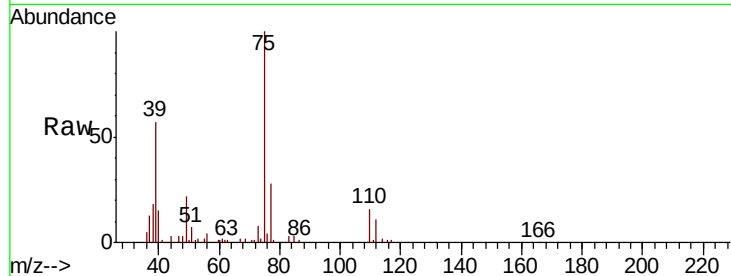
#45
t-1,3-Dichloropropene
Concen: 0.958 ppbv
RT: 9.41 min Scan# 2014
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 75 Resp: 86528
Ion Ratio Lower Upper
75 100
77 27.5 24.4 36.6

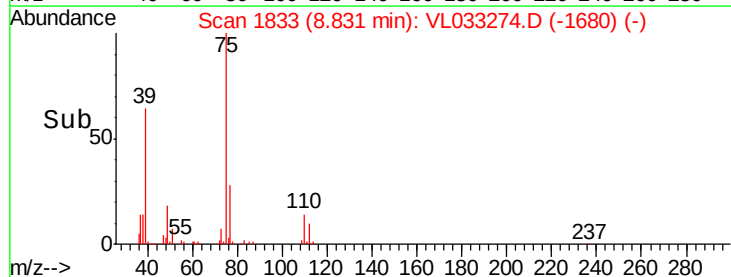
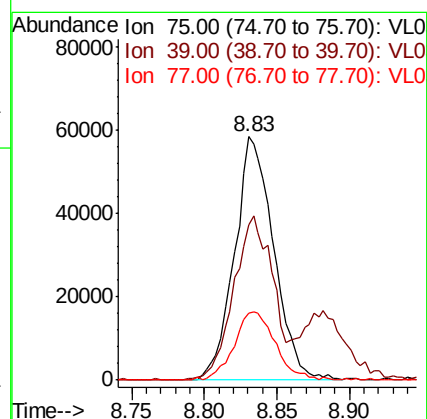
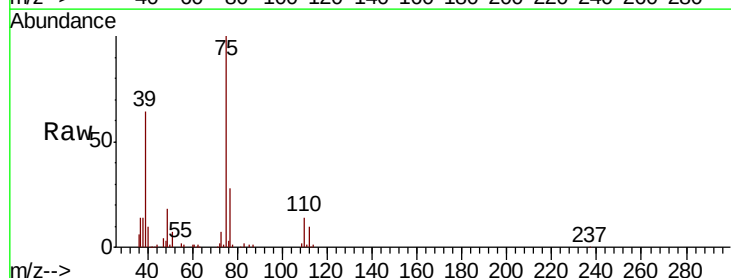
Manual Integrations
APPROVED

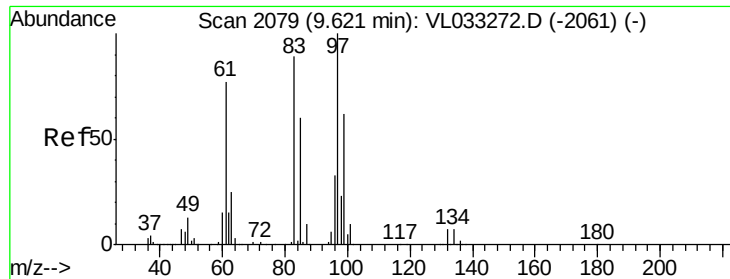
MMDadoda
3/14/2019 5:05:39 AM



#46
cis-1,3-Dichloropropene
Concen: 1.030 ppbv
RT: 8.83 min Scan# 1833
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion: 75 Resp: 109603
Ion Ratio Lower Upper
75 100
39 63.0 54.2 81.2
77 27.7 24.5 36.7





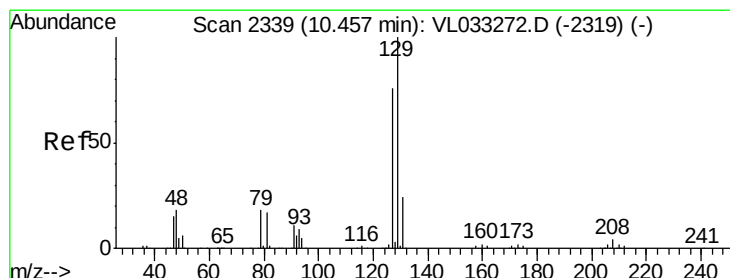
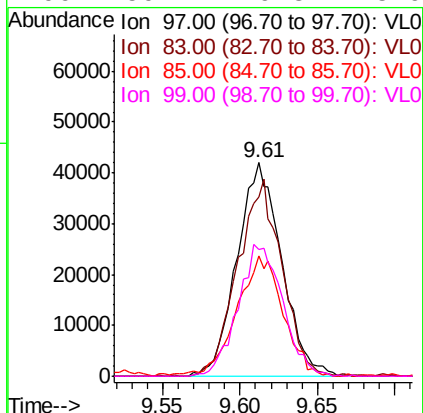
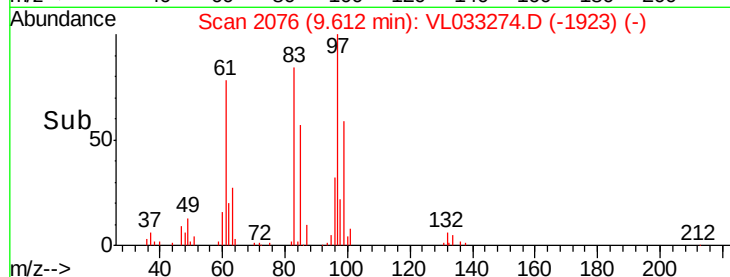
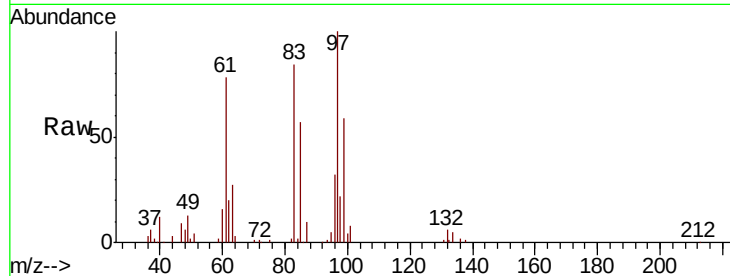
#47
 1,1,2-Trichloroethane
 Concen: 1.074 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
97	100		
83	83.5	71.0	106.4
85	56.5	48.2	72.4
99	59.2	49.3	73.9

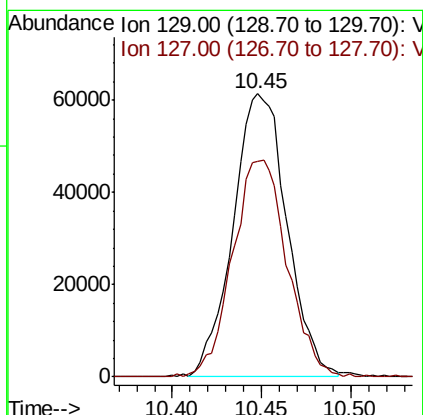
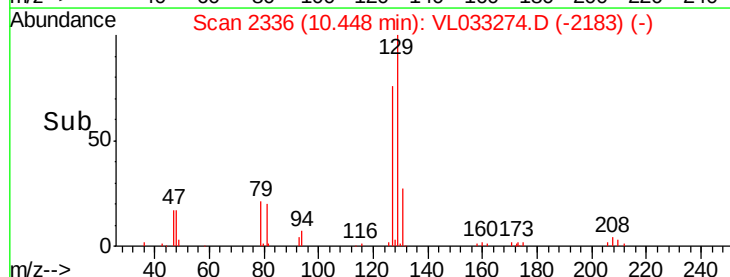
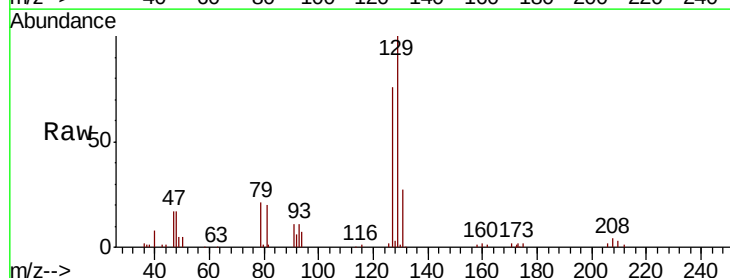
Manual Integrations
 APPROVED

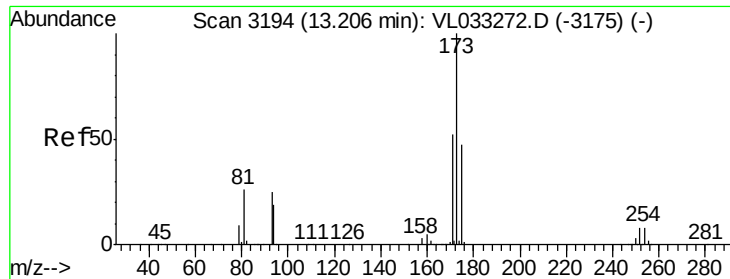
MMDadoda
 3/14/2019 5:05:39 AM



#48
 Dibromochloromethane
 Concen: 1.011 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.9	116.6





#49

Bromoform

Concen: 0.870 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 173 Resp: 100182

Ion Ratio Lower Upper

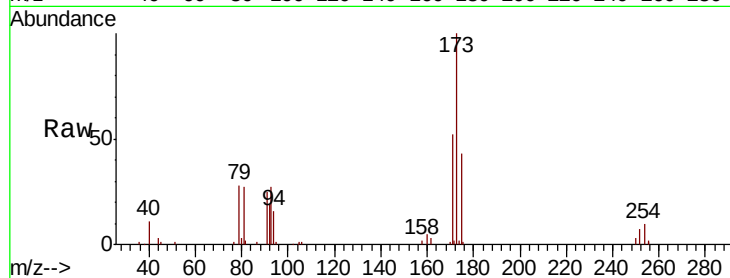
173 100

175 48.5 39.0 58.6

171 52.4 41.2 61.8

Manual Integrations
APPROVED

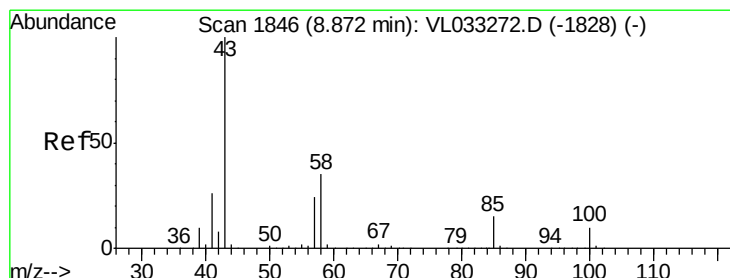
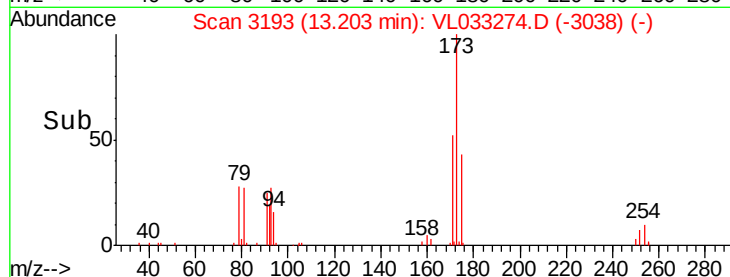
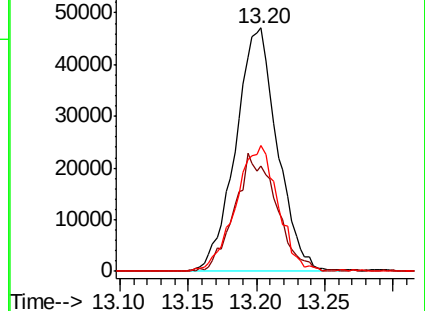
MMDadoda
3/14/2019 5:05:39 AM



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: 1.079 ppbv

RT: 8.88 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VL033274.D

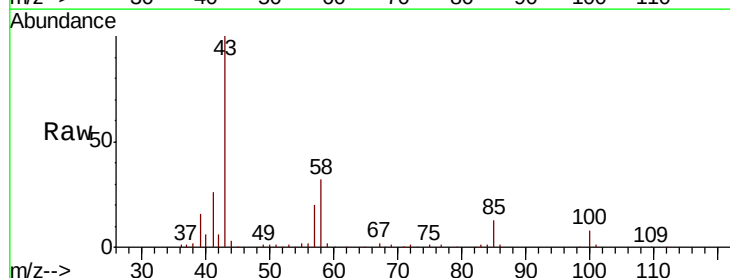
Acq: 12 Mar 2019 3:36

Tgt Ion: 43 Resp: 212620

Ion Ratio Lower Upper

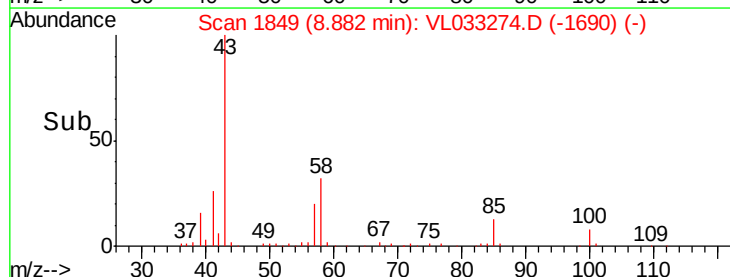
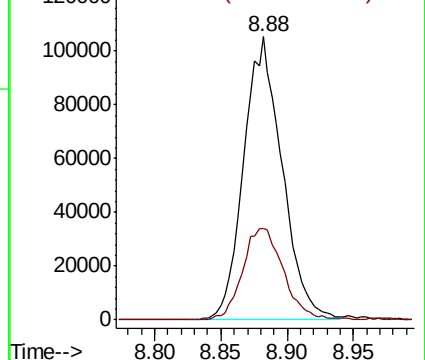
43 100

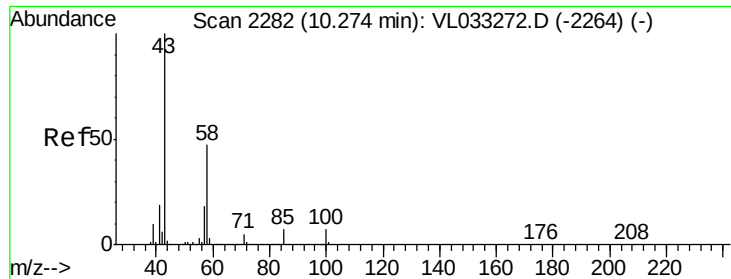
58 34.4 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





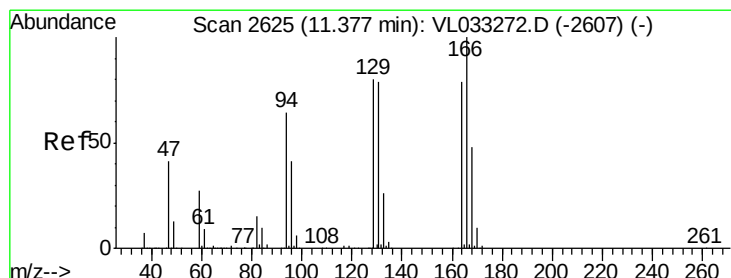
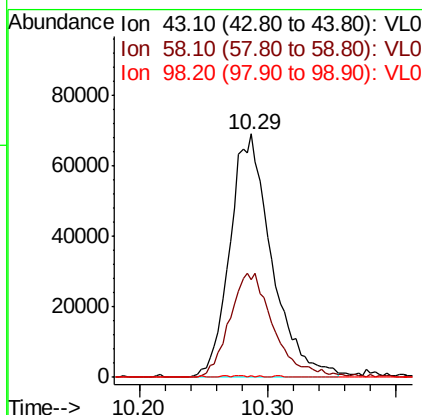
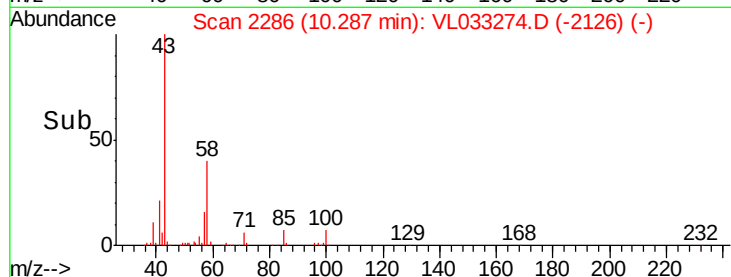
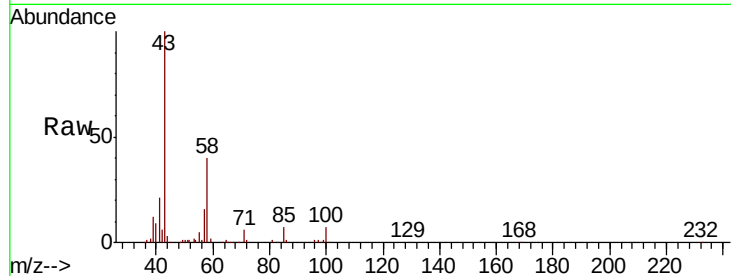
#51
2-Hexanone
Concen: 1.063 ppbv m
RT: 10.29 min Scan# 2286
Delta R.T. 0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 156209
Ion Ratio Lower Upper
43 100
58 0.0 38.1 57.1#
98 0.7 0.1 0.1#

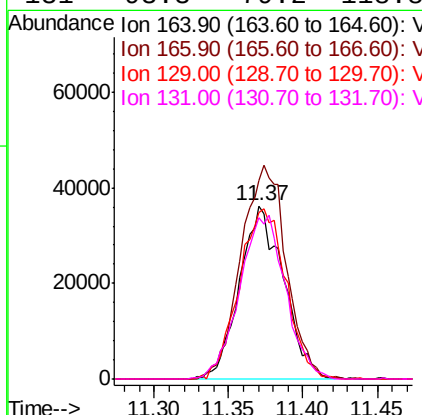
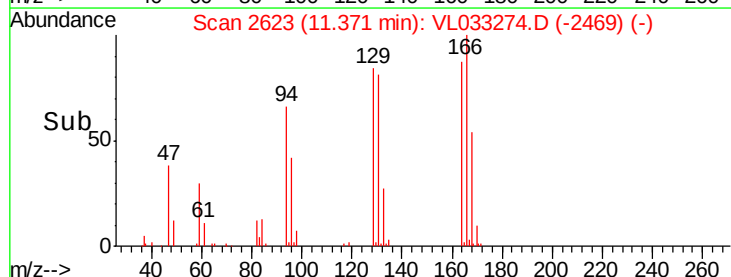
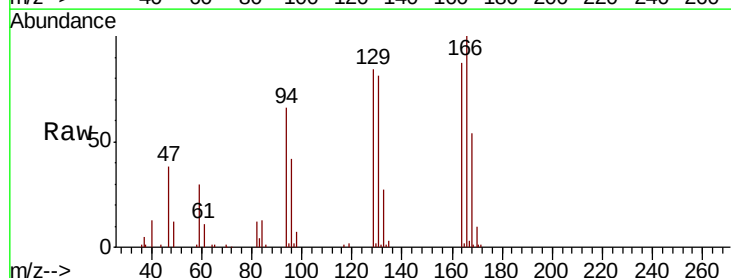
Manual Integrations
APPROVED

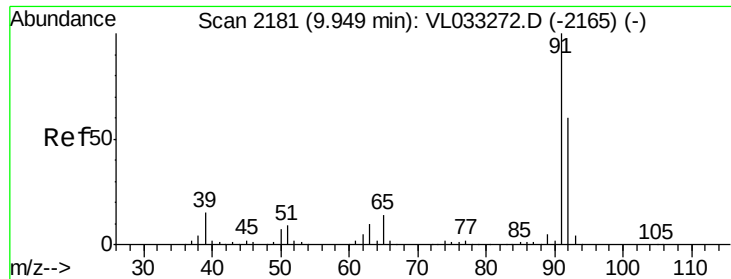
MMDadoda
3/14/2019 5:05:39 AM



#52
Tetrachloroethene
Concen: 1.067 ppbv m
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion: 164 Resp: 74391
Ion Ratio Lower Upper
164 100
166 114.9 100.8 151.2
129 96.6 80.6 121.0
131 93.3 79.2 118.8





#53

Toluene

Concen: 1.083 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 230676

Ion Ratio Lower Upper

91 100

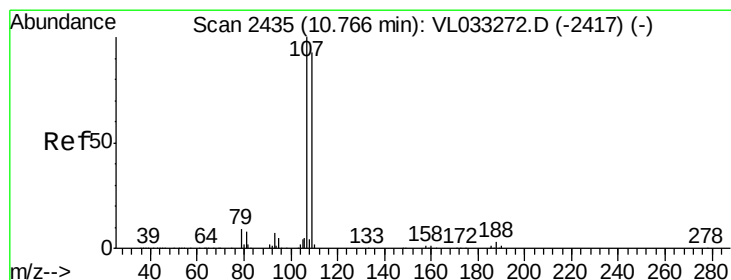
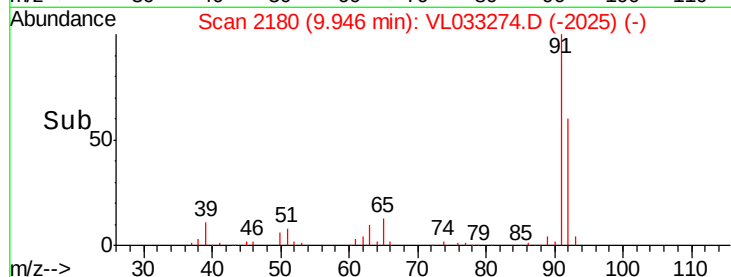
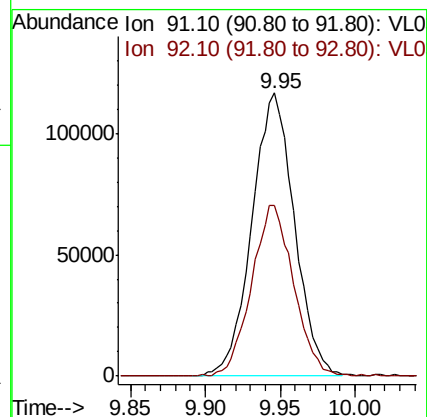
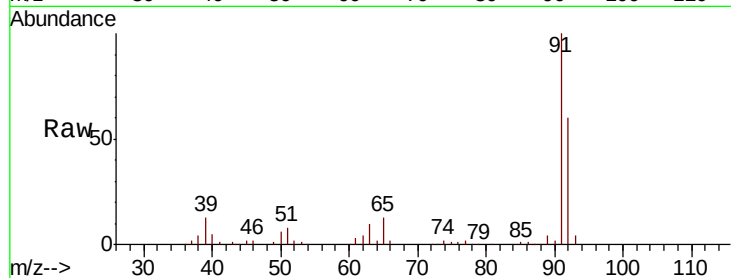
92 59.8 47.8 71.8

Manual Integrations

APPROVED

MMDadoda

3/14/2019 5:05:39 AM



#54

1,2-Dibromoethane

Concen: 1.008 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033274.D

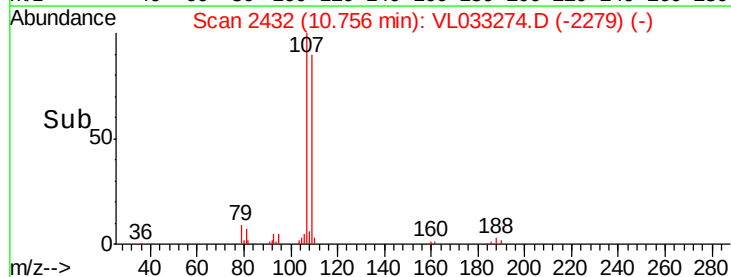
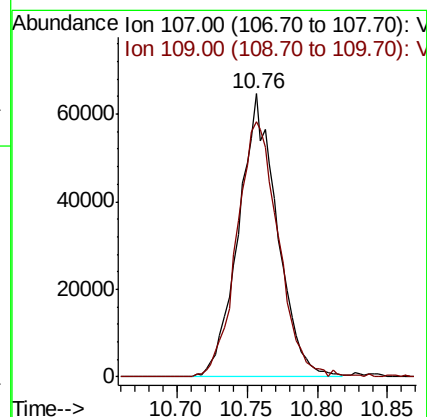
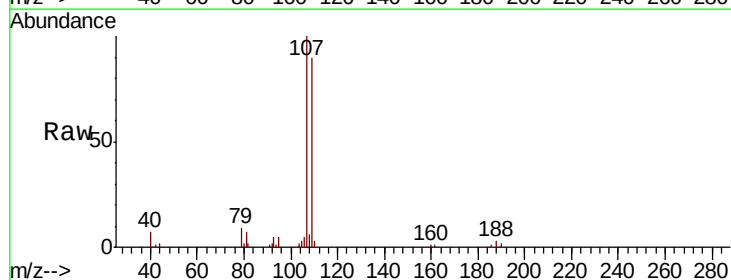
Acq: 12 Mar 2019 3:36

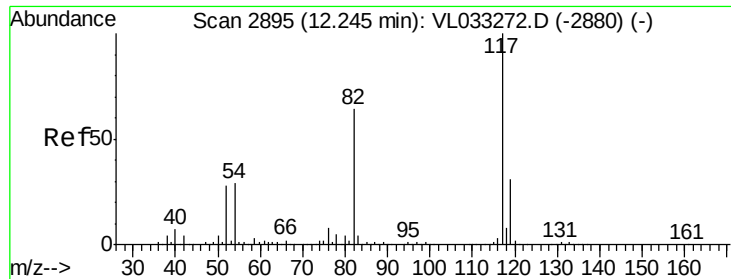
Tgt Ion: 107 Resp: 123829

Ion Ratio Lower Upper

107 100

109 90.2 74.2 111.2





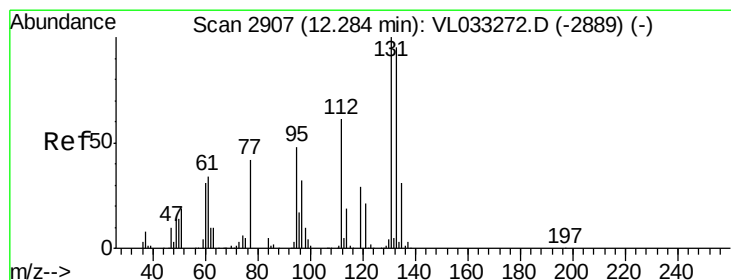
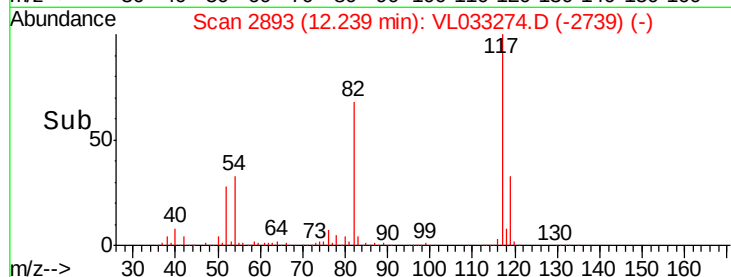
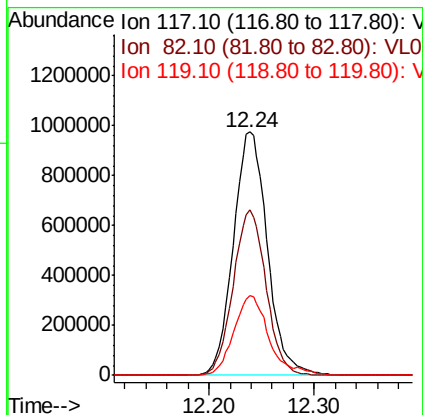
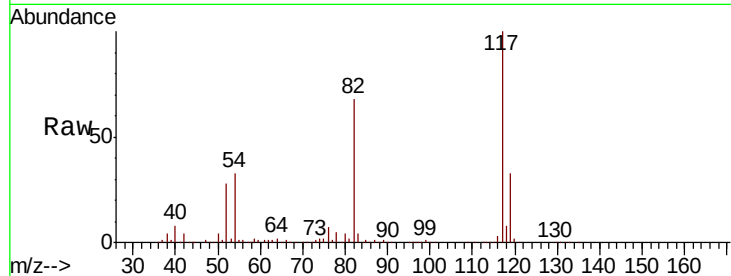
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:117 Resp: 2188379
Ion Ratio Lower Upper
117 100
82 65.5 51.1 76.7
119 34.0 43.6 65.4#

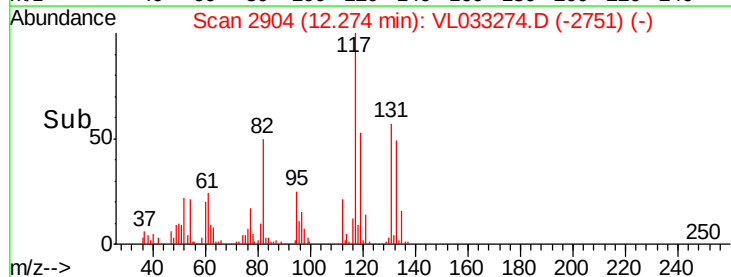
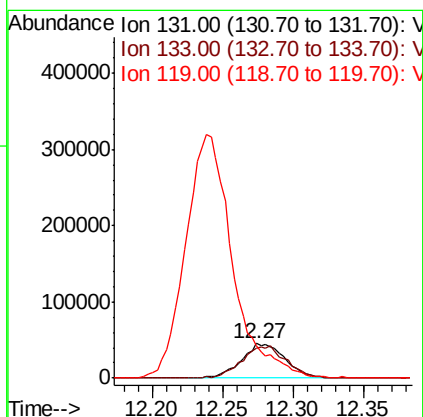
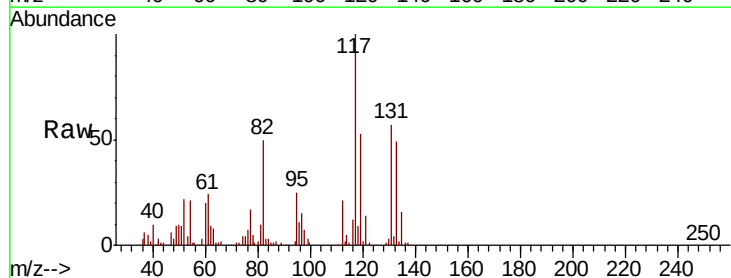
Manual Integrations
APPROVED

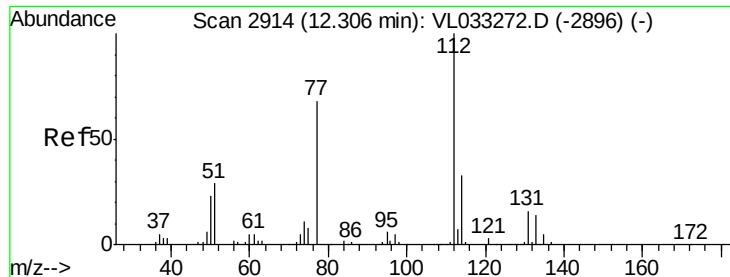
MMDadoda
3/14/2019 5:05:39 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.073 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion:131 Resp: 98115
Ion Ratio Lower Upper
131 100
133 94.8 76.2 114.4
119 756.9 110.3 165.5#





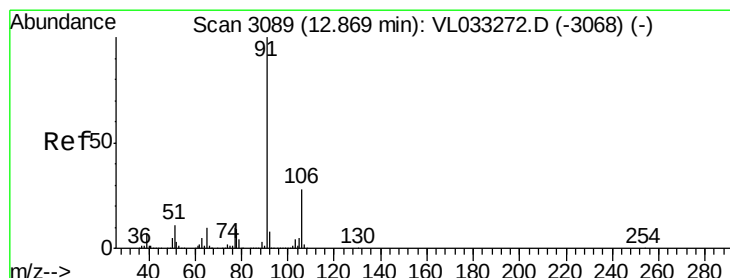
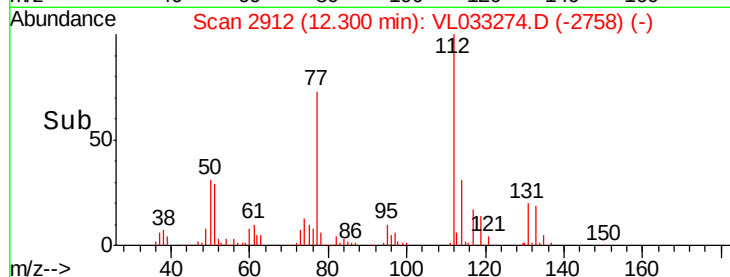
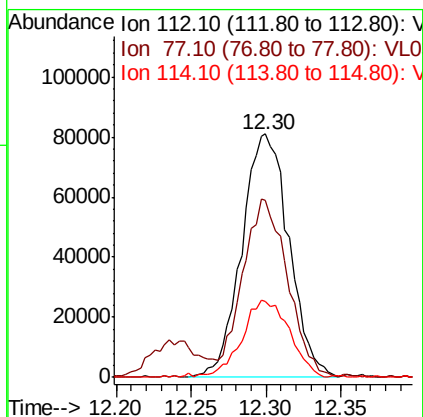
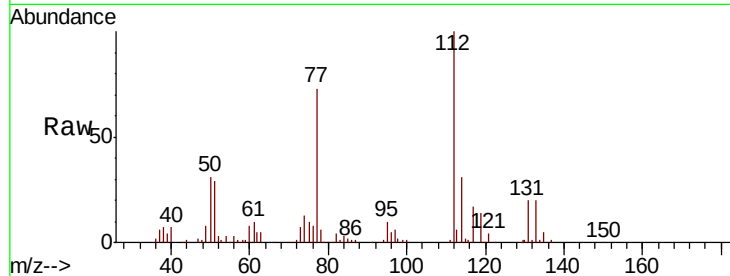
#57
Chlorobenzene
Concen: 1.101 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	177233		
77	68.8	55.8	83.8	
114	29.1	29.5	36.1#	

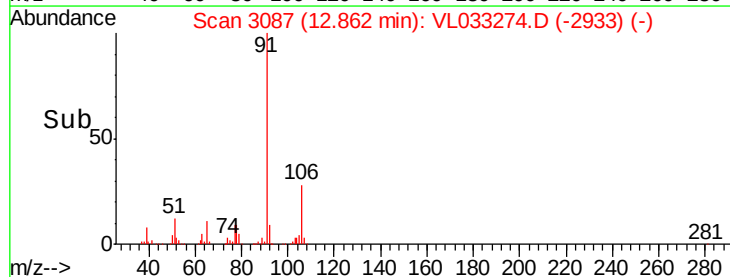
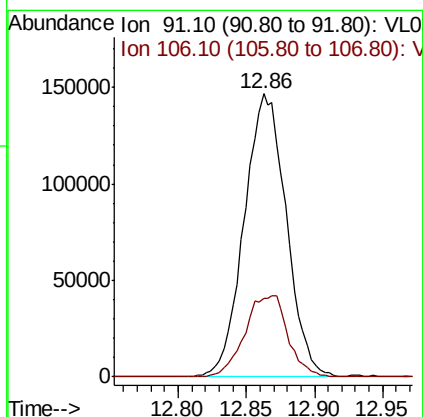
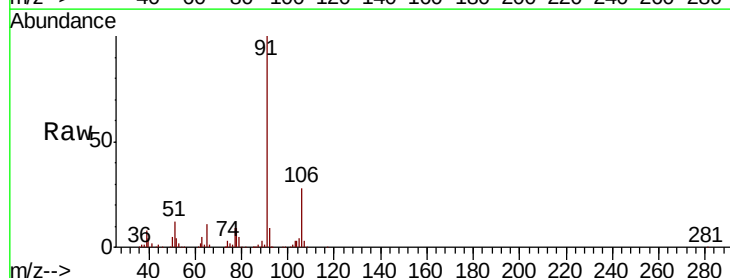
Manual Integrations
APPROVED

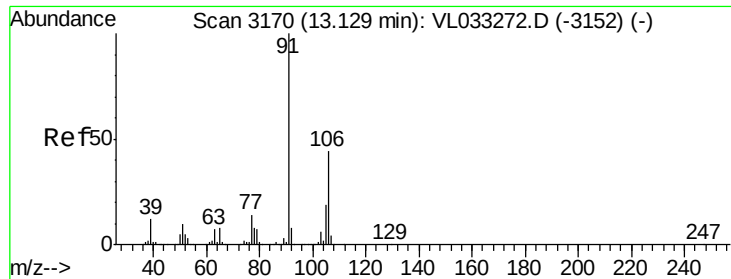
MMDadoda
3/14/2019 5:05:39 AM



#58
Ethyl Benzene
Concen: 1.057 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	313730		
106	27.6	22.5	33.7	





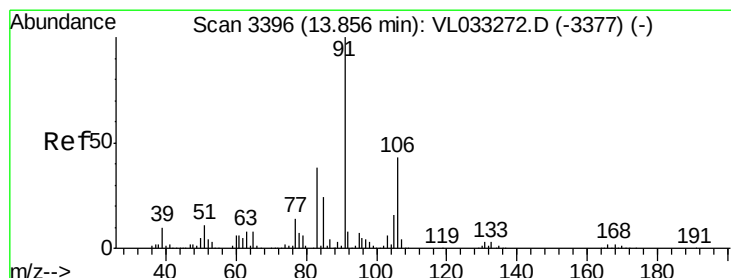
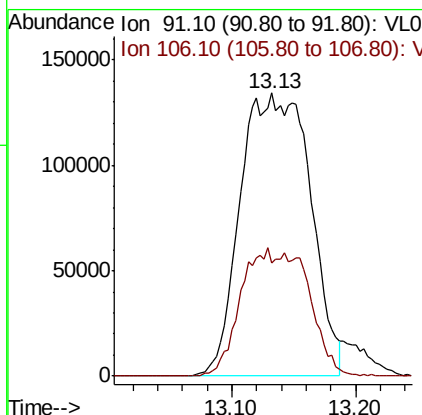
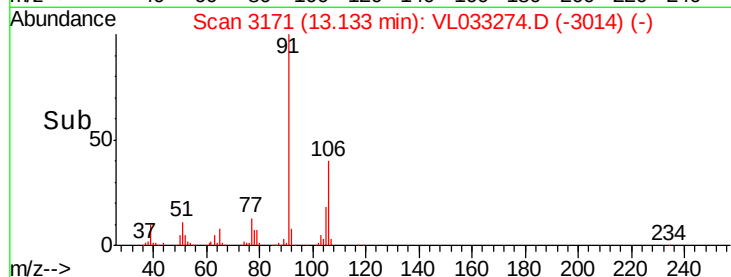
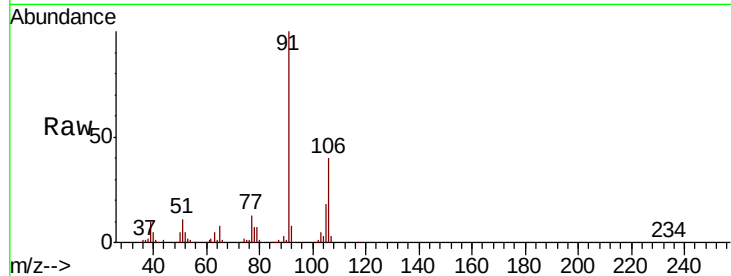
#59
m/p-Xylene
Concen: 1.960 ppbv m
RT: 13.13 min Scan# 3171
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampled :
VSTDIC001

Tgt Ion: 91 Resp: 526073
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

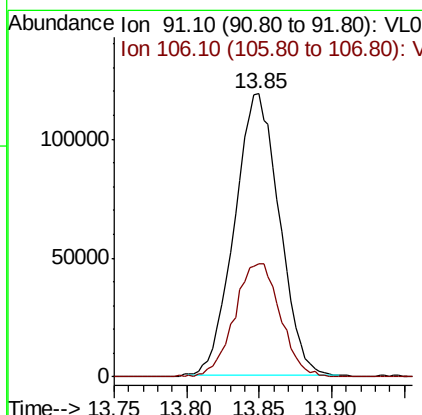
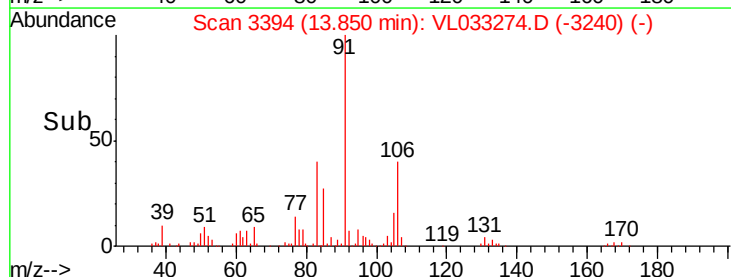
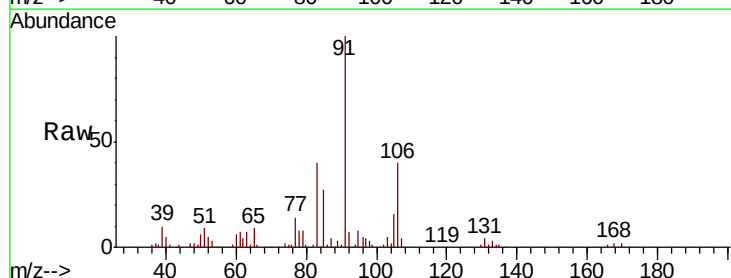
Manual Integrations
APPROVED

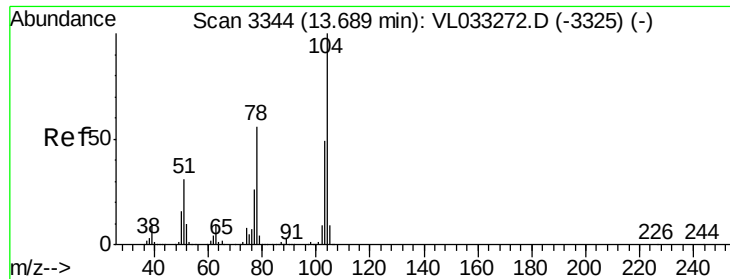
MMDadoda
3/14/2019 5:05:39 AM



#60
o-Xylene
Concen: 0.982 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion: 91 Resp: 254373
Ion Ratio Lower Upper
91 100
106 41.4 21.3 63.7





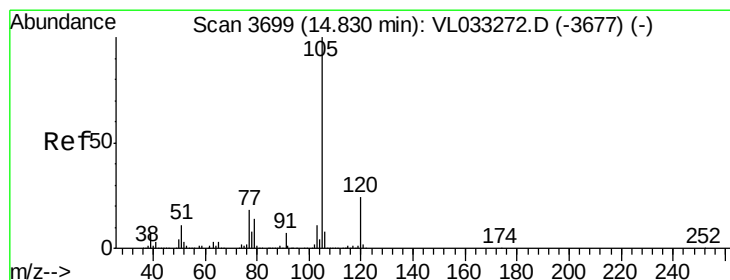
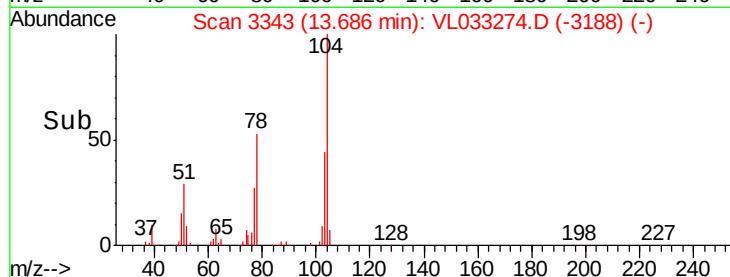
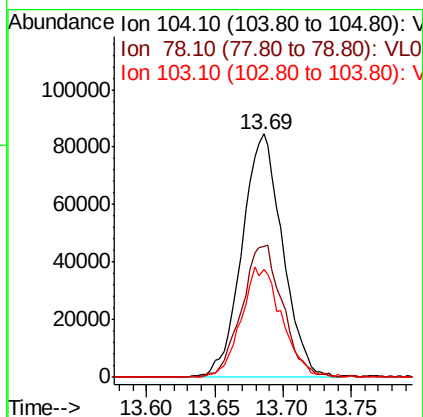
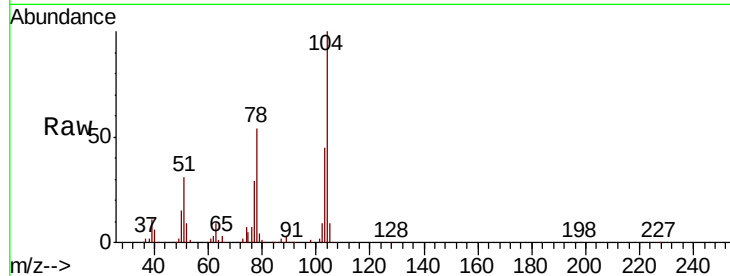
#61
Styrene
Concen: 0.986 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
104	100		
78	55.2	43.3	64.9
103	45.8	38.0	57.0

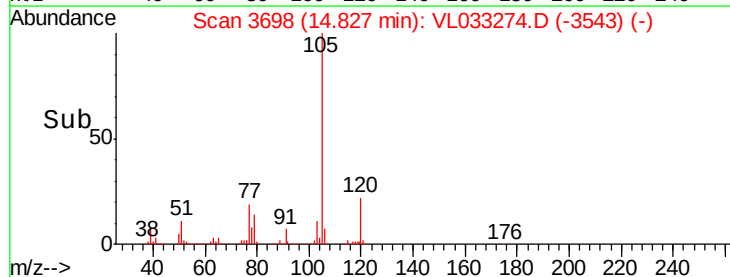
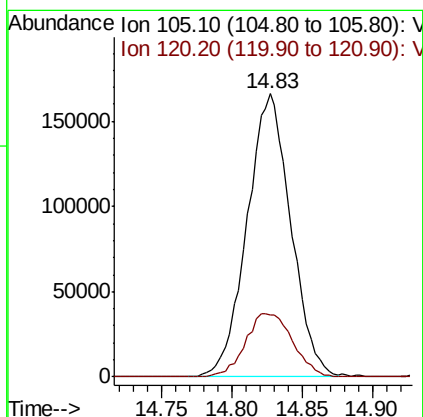
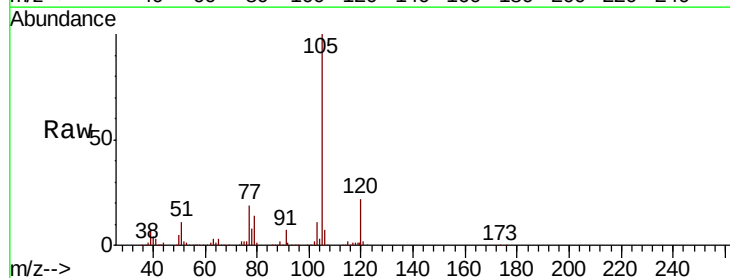
Manual Integrations
APPROVED

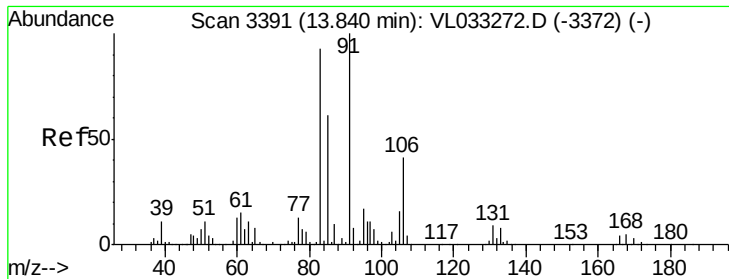
MMDadoda
3/14/2019 5:05:39 AM



#62
Isopropylbenzene
Concen: 1.041 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.2	20.0	30.0





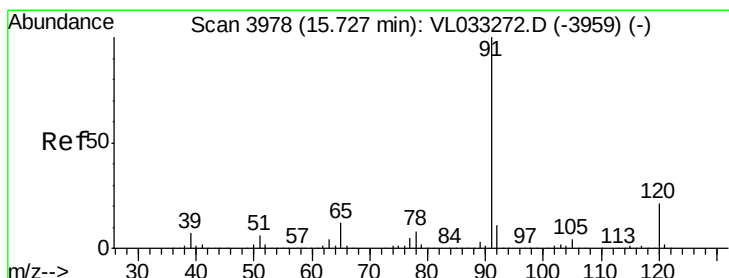
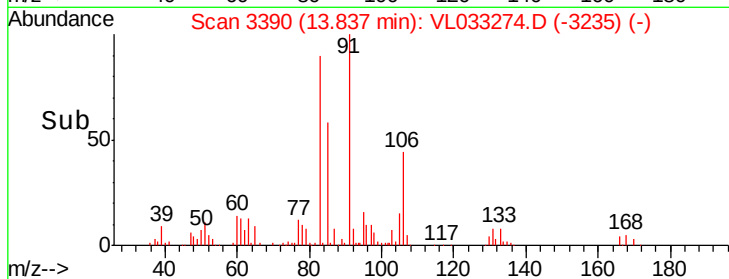
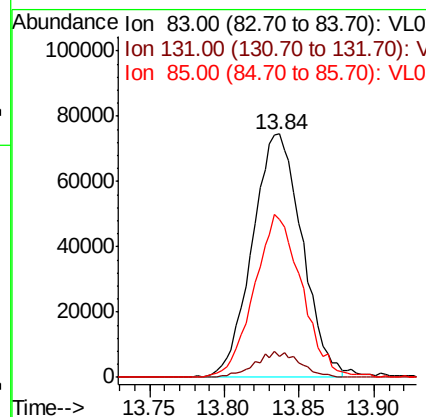
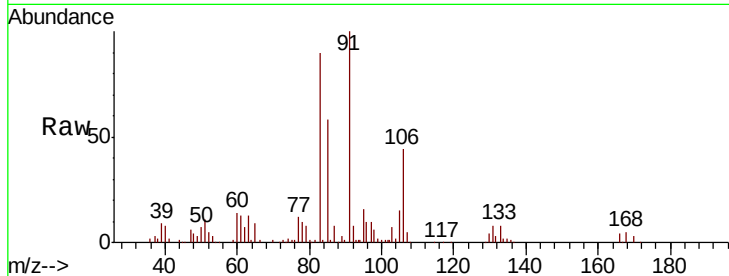
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.031 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.5	13.7
85	64.4	32.2	96.6

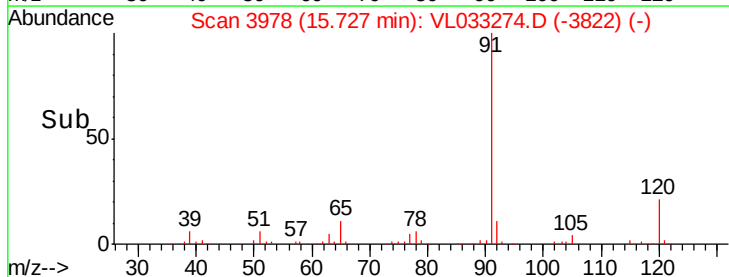
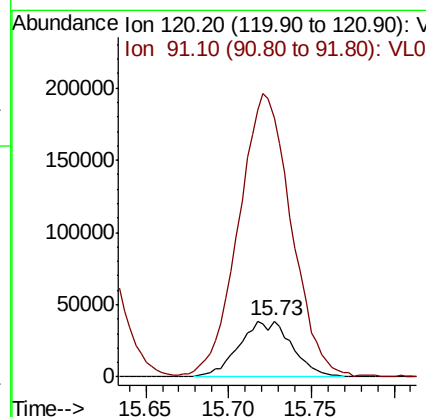
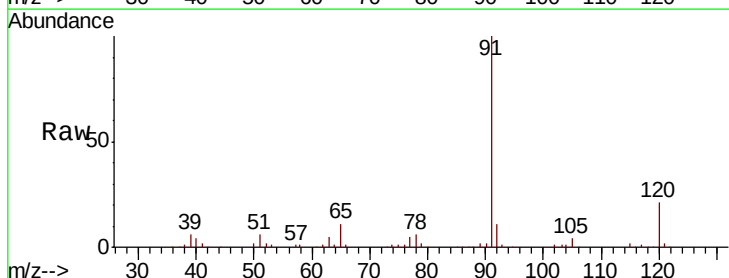
Manual Integrations
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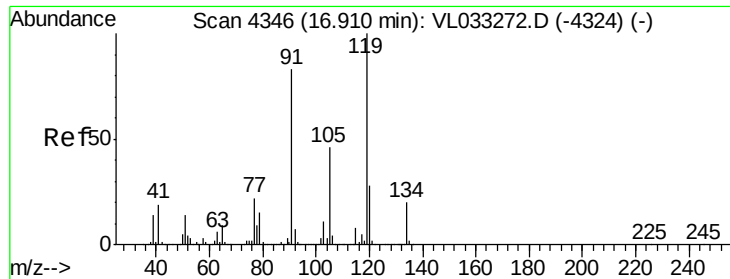
MMDadoda
 3/14/2019 5:05:39 AM



#64
 n-propylbenzene
 Concen: 1.012 ppbv m
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
120	100		
91	505.1	385.8	578.8





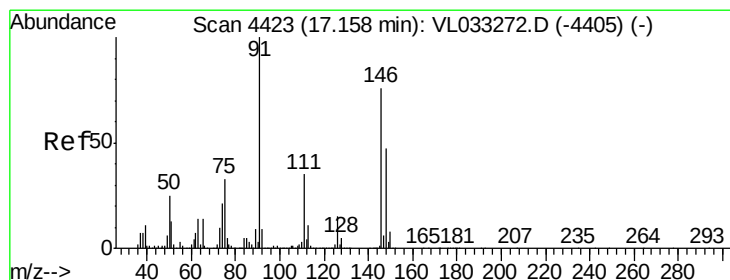
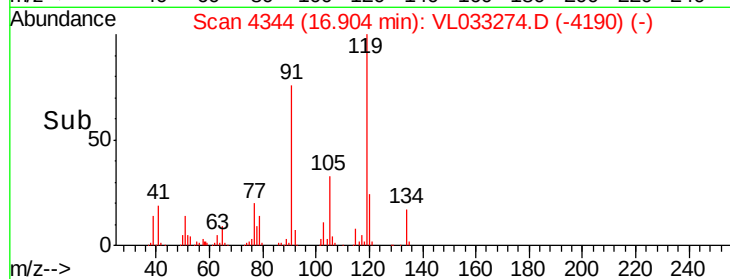
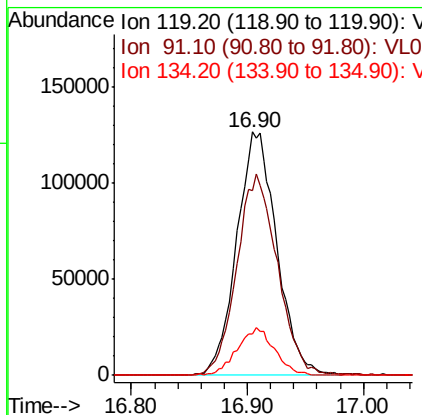
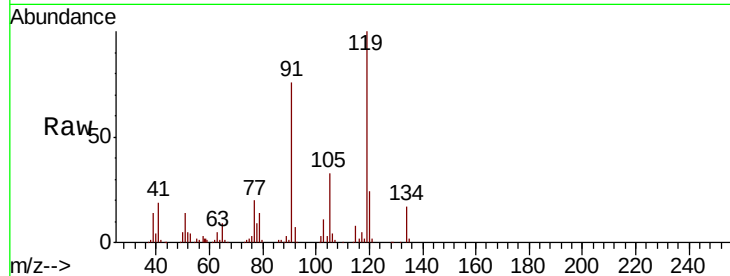
#65
 tert-Butylbenzene
 Concen: 1.041 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	302871		
91	84.2	67.3	100.9	
134	18.3	15.4	23.2	

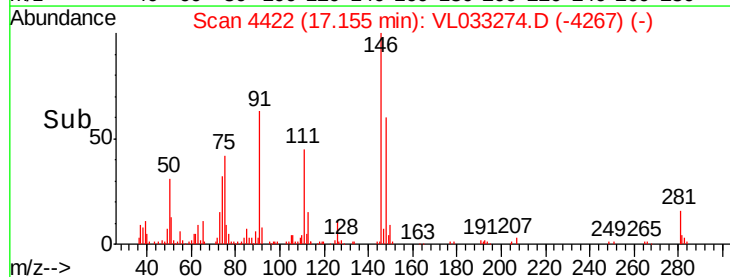
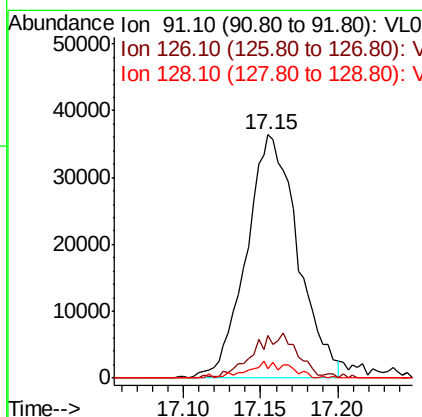
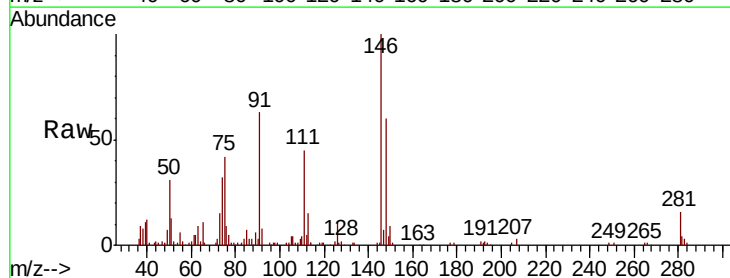
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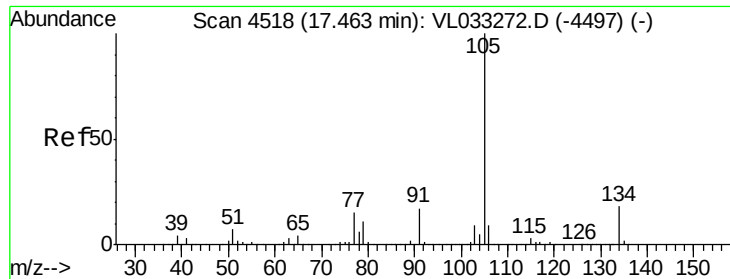
MMDadoda
 3/14/2019 5:05:39 AM



#66
 Benzyl Chloride
 Concen: 0.775 ppbv
 RT: 17.15 min Scan# 4422
 Delta R.T. -0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	84086		
126	16.5	13.0	19.6	
128	5.5	4.3	6.5	





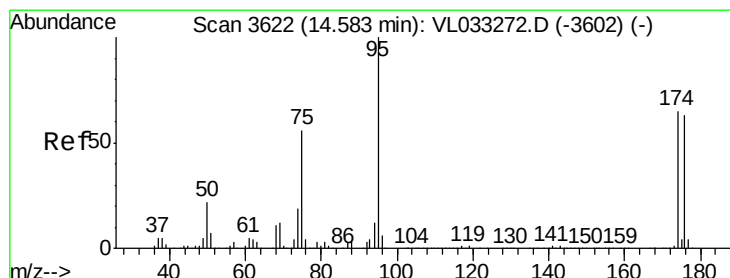
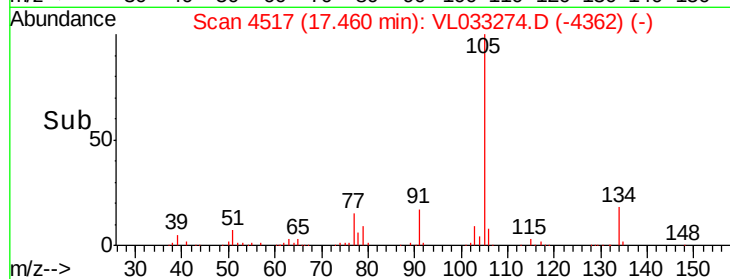
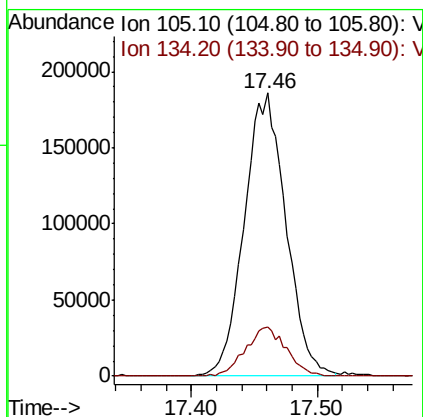
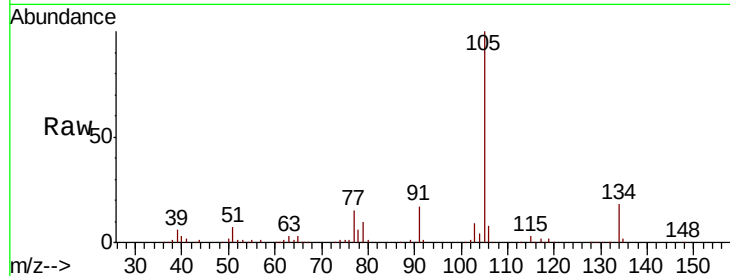
#67
 sec-Butylbenzene
 Concen: 1.035 ppbv m
 RT: 17.46 min Scan# 4517
 Delta R.T. -0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 105 Resp: 427263
 Ion Ratio Lower Upper
 105 100
 134 0.0 14.2 21.2#

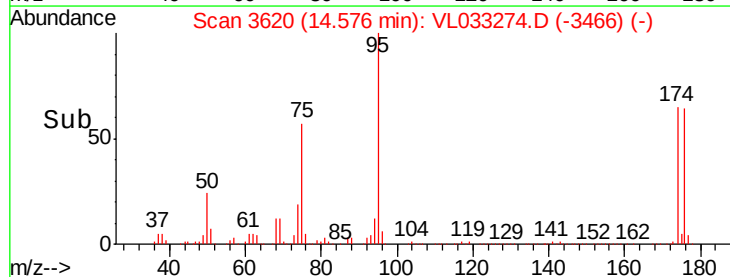
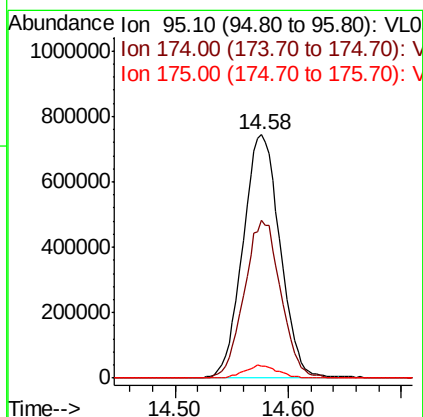
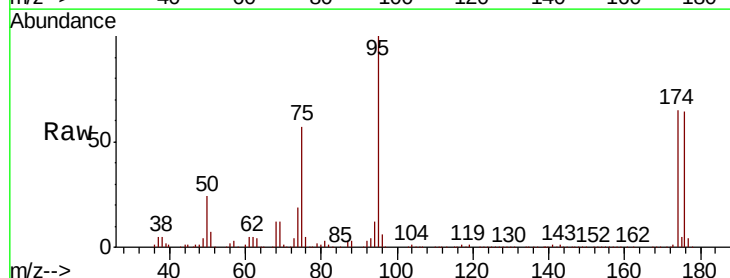
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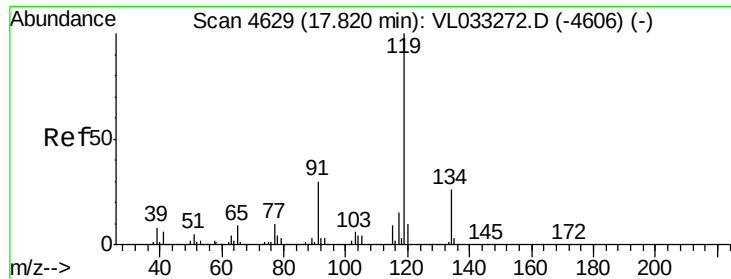
MMDadoda
 3/14/2019 5:05:39 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.694 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion: 95 Resp: 1697834
 Ion Ratio Lower Upper
 95 100
 174 64.2 51.7 77.5
 175 4.8 3.7 5.5





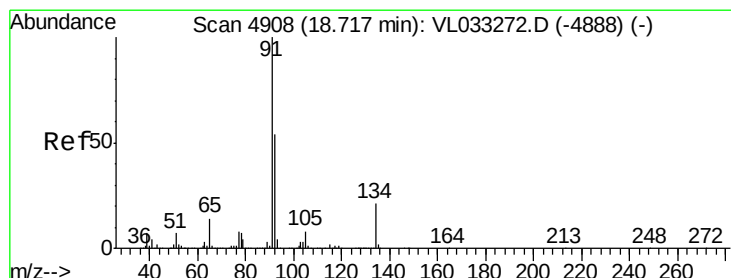
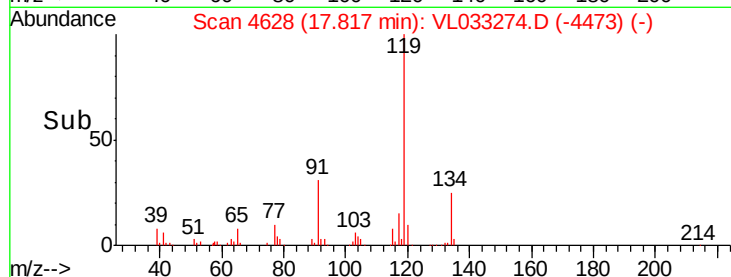
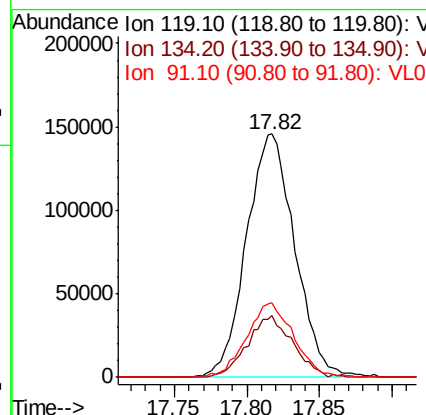
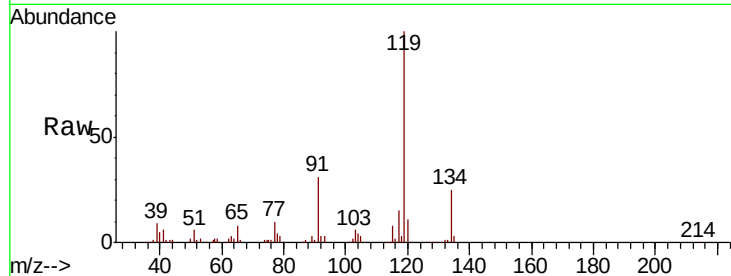
#69
p-Isopropyltoluene
Concen: 1.005 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.1	19.7	29.5
91	30.4	23.5	35.3

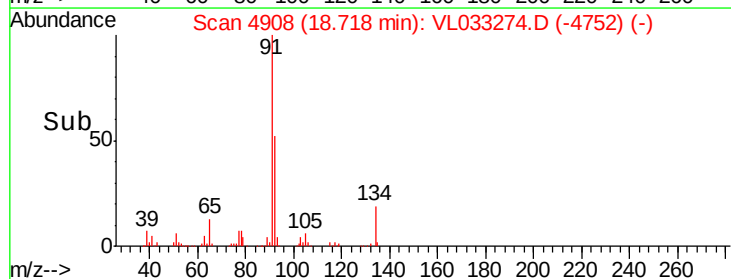
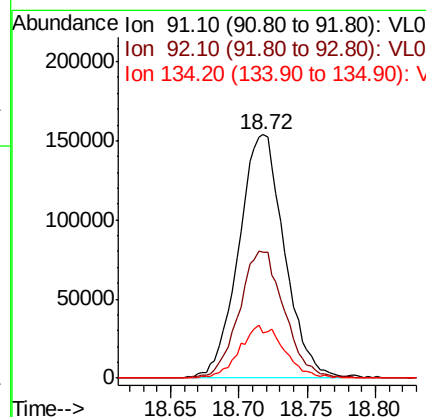
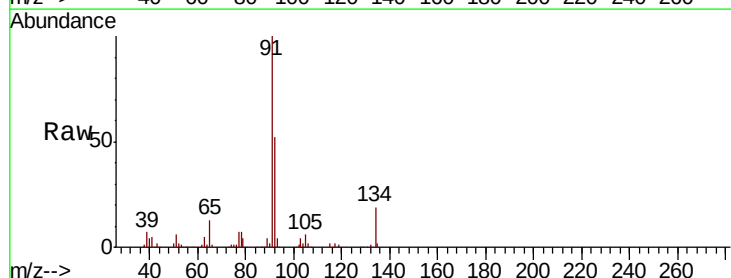
Manual Integrations
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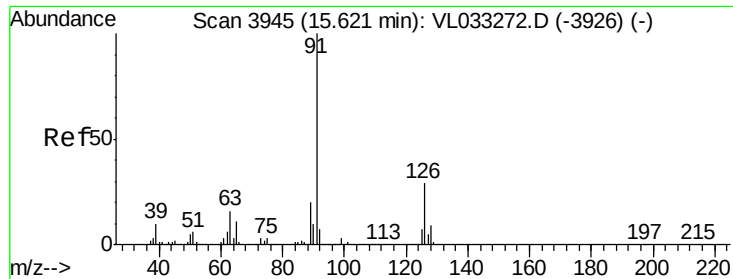
MMDadoda
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#70
n-Butylbenzene
Concen: 0.971 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	42.4	63.6
134	21.3	17.1	25.7





#71

2-Chlorotoluene

Concen: 1.016 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 262402

Ion Ratio Lower Upper

91 100

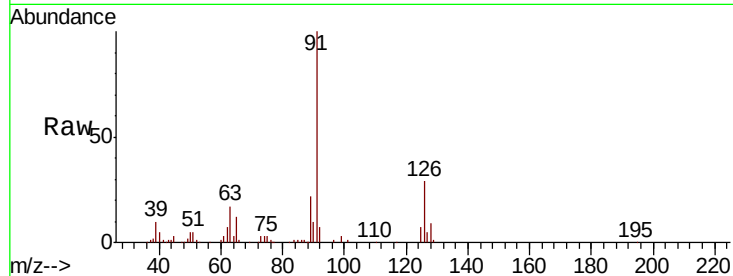
126 29.2 11.7 46.7

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

200000

150000

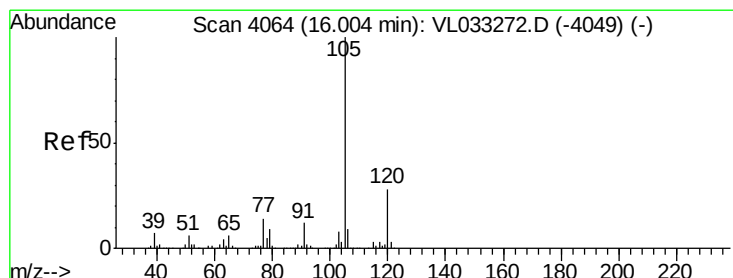
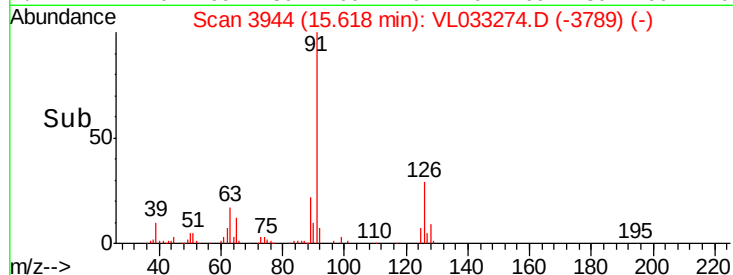
100000

50000

0

15.55 15.60 15.65 15.70

Time-->



#72

4-Ethyltoluene

Concen: 0.998 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033274.D

Acq: 12 Mar 2019 3:36

Tgt Ion: 105 Resp: 268813

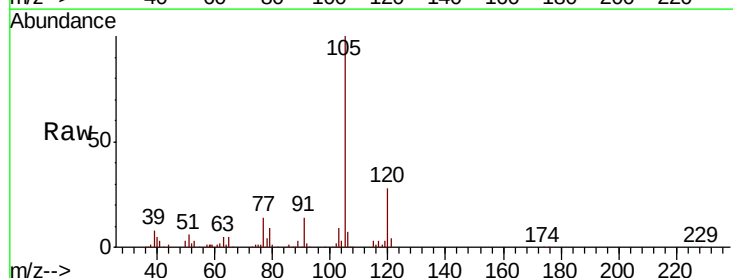
Ion Ratio Lower Upper

105 100

120 29.1 22.9 34.3

91 13.6 10.2 15.2

77 14.1 11.2 16.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

200000

150000

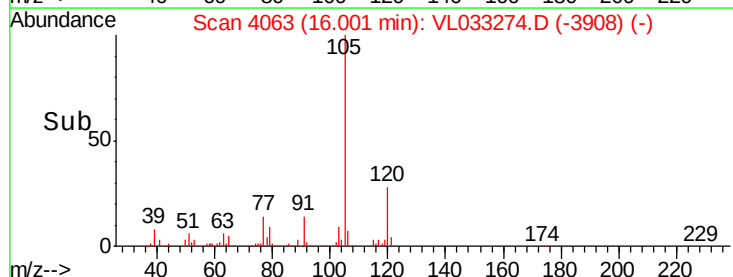
100000

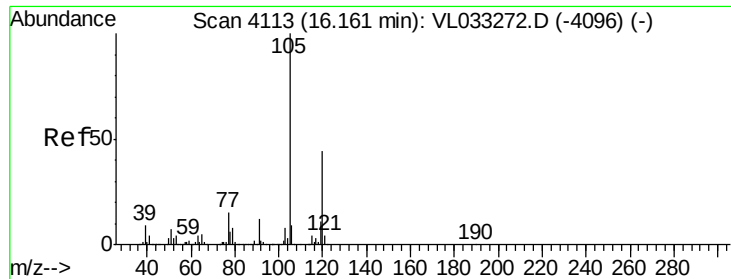
50000

0

15.90 16.00 16.10

Time-->





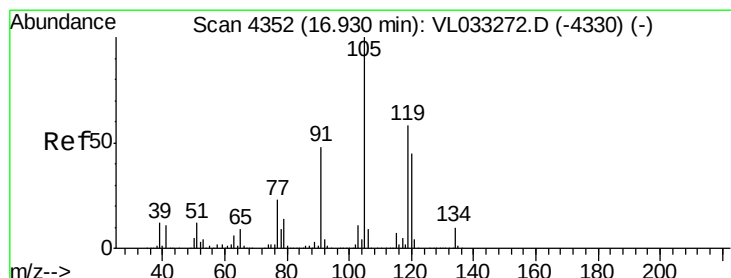
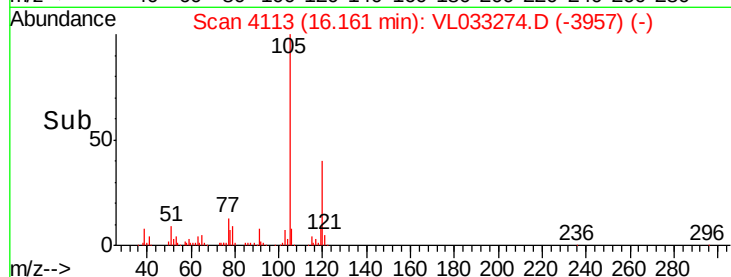
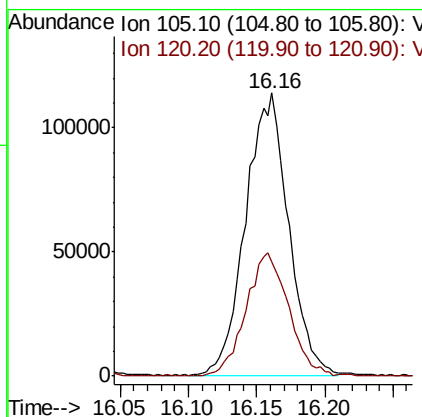
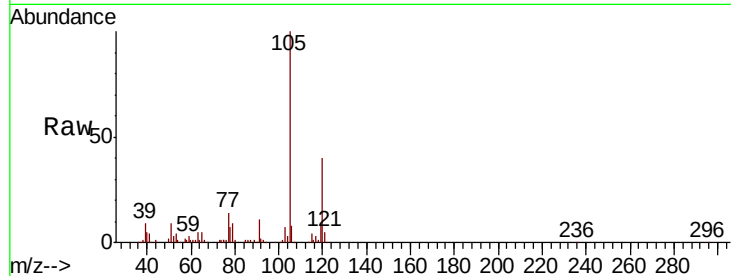
#73
 1,3,5-Trimethylbenzene
 Concen: 0.964 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. 0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:105 Resp: 247163
 Ion Ratio Lower Upper
 105 100
 120 40.6 35.1 52.7

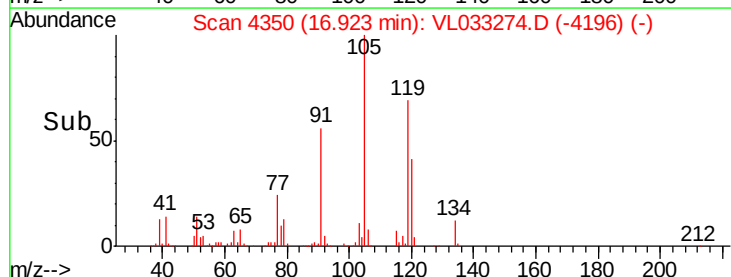
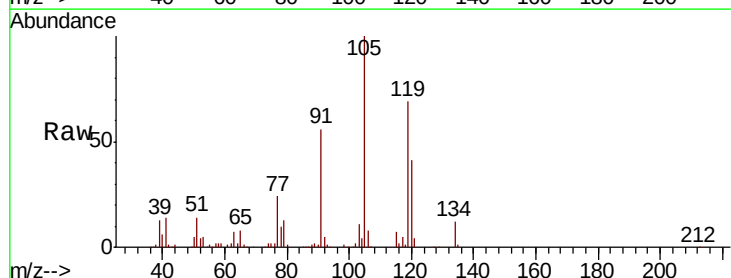
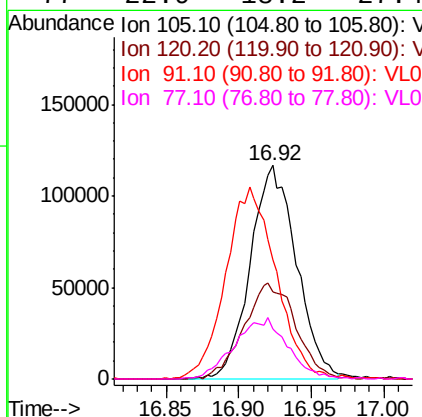
Manual Integrations
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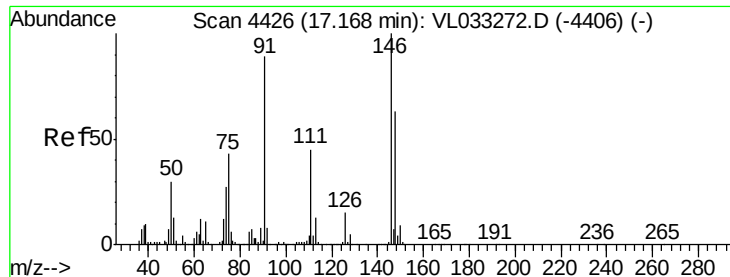
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.964 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion:105 Resp: 257856
 Ion Ratio Lower Upper
 105 100
 120 40.3 36.1 54.1
 91 55.0 38.6 58.0
 77 22.9 18.2 27.4





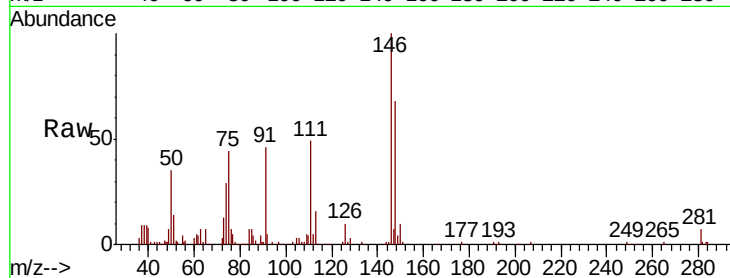
#75
 1,3-Dichlorobenzene
 Concen: 0.975 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.4	22.8	68.4
148	66.4	31.8	95.3

Manual Integrations
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MMDadoda
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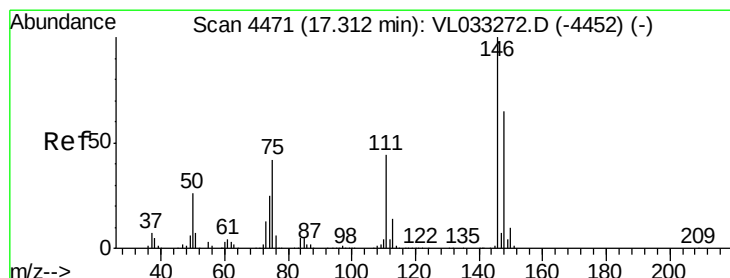
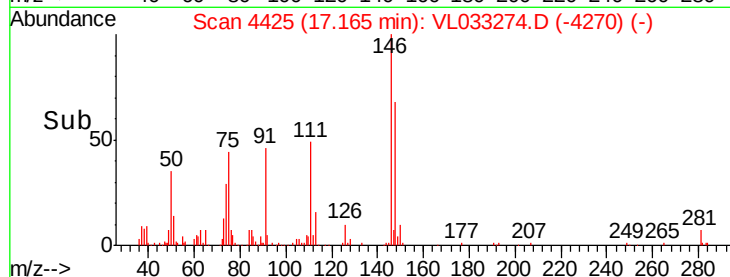
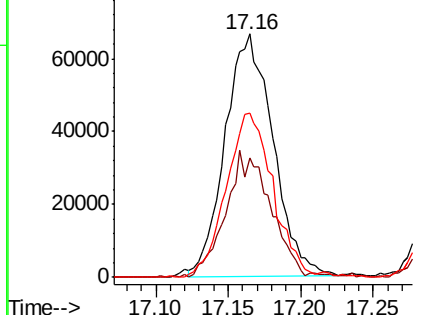


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76
 1,4-Dichlorobenzene
 Concen: 0.943 ppbv
 RT: 17.31 min Scan# 4469
 Delta R.T. -0.01 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

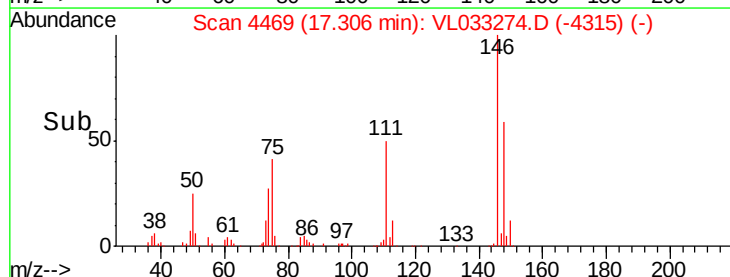
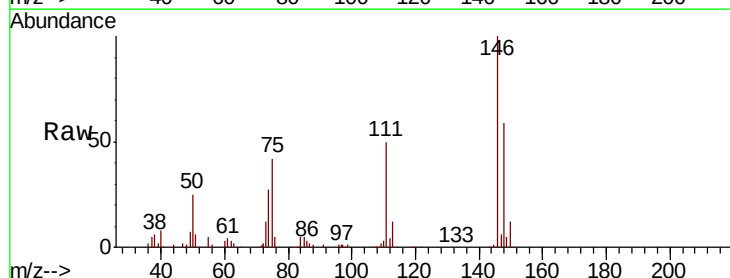
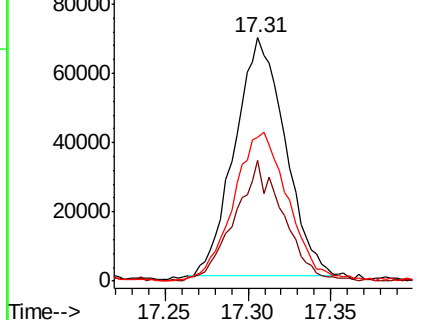
Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.9	22.1	66.1
148	68.8	31.8	95.3

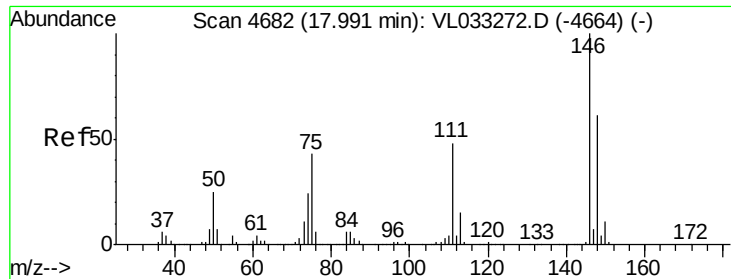
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





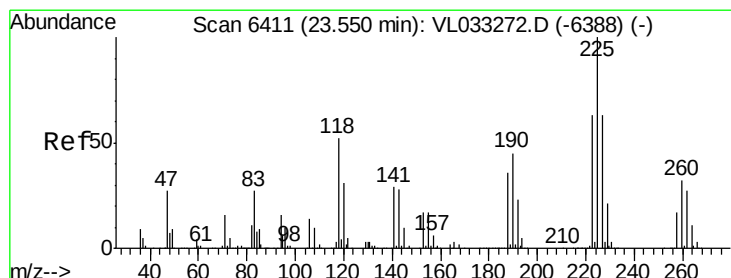
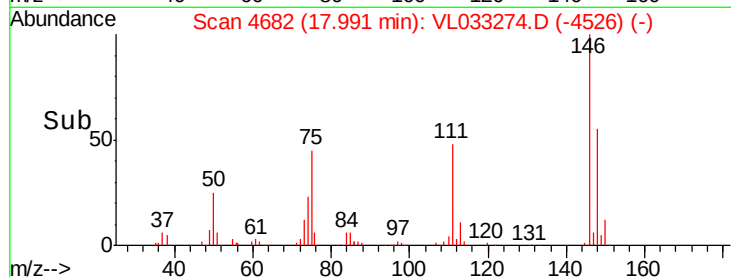
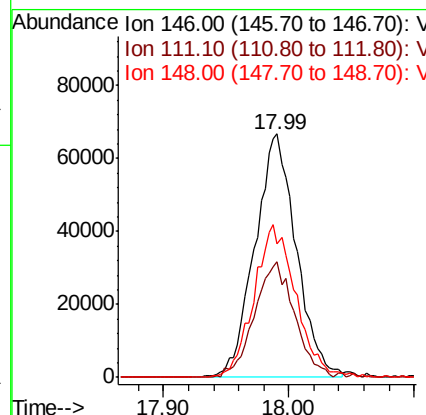
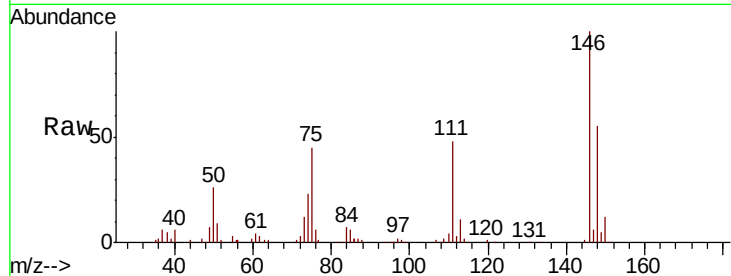
#77
 1,2-Dichlorobenzene
 Concen: 1.005 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. 0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.6	23.5	70.5
148	63.6	31.7	95.1

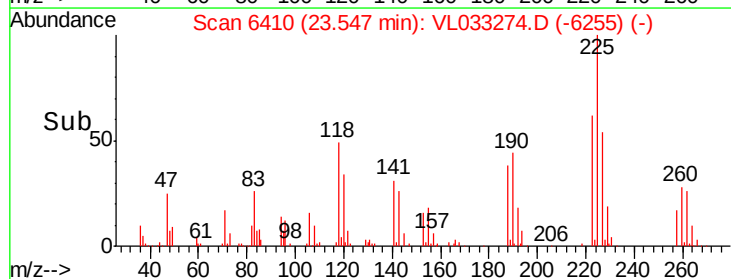
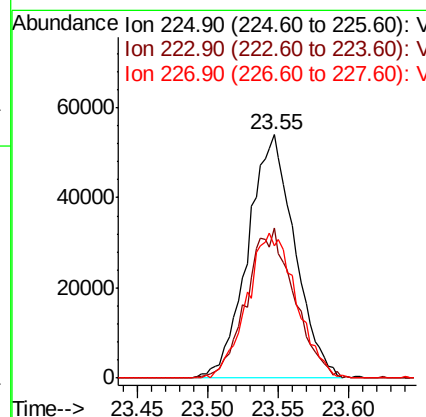
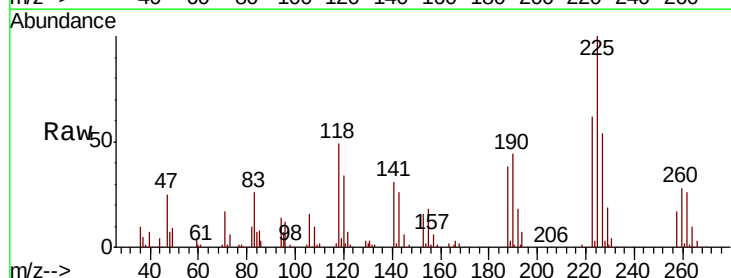
Manual Integrations
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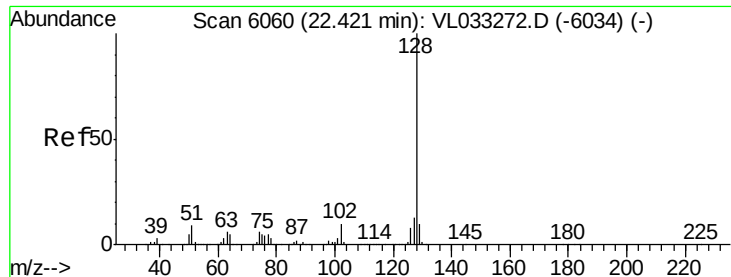
MMDadoda
 3/14/2019 5:05:39 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.085 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.3	75.5
227	62.7	51.1	76.7





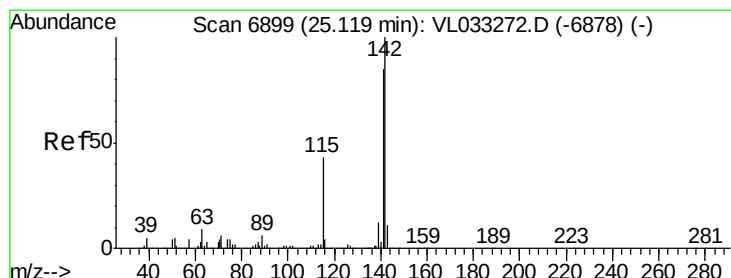
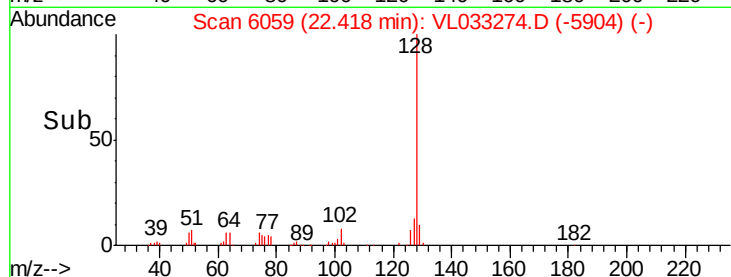
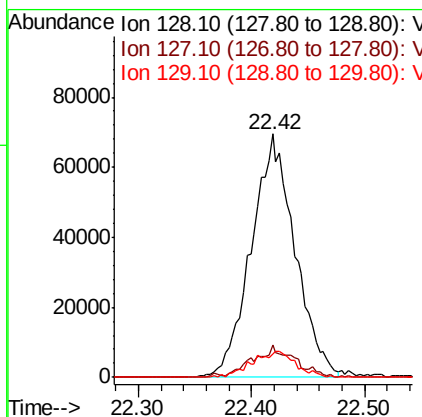
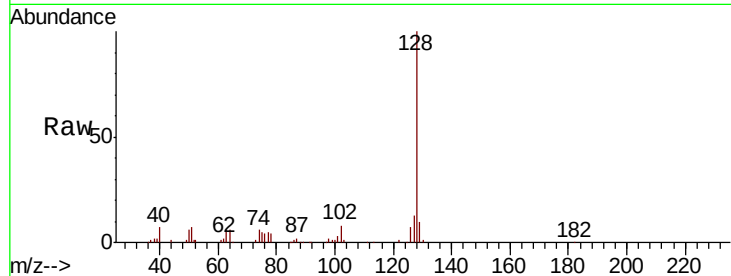
#79
Naphthalene
Concen: 0.637 ppbv
RT: 22.42 min Scan# 6059
Delta R.T. -0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	185930		
127	13.2	10.5	15.7	
129	9.9	8.4	12.6	

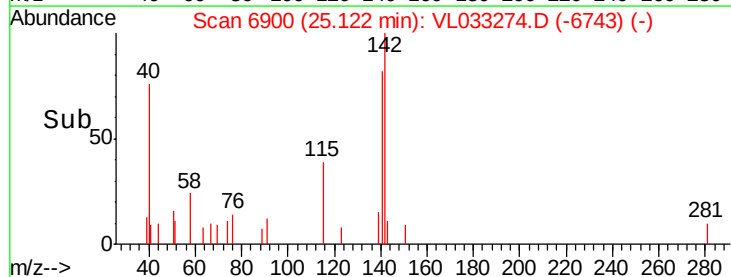
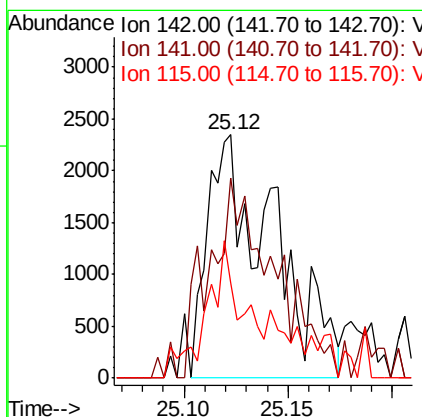
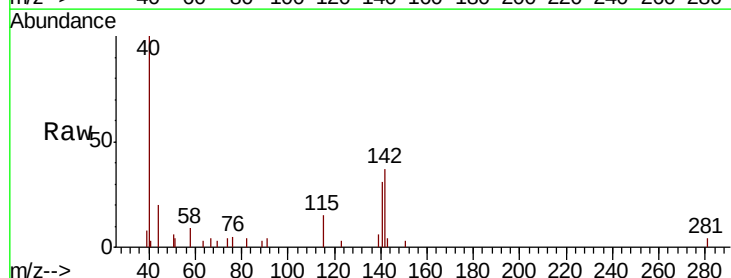
Manual Integrations
APPROVED

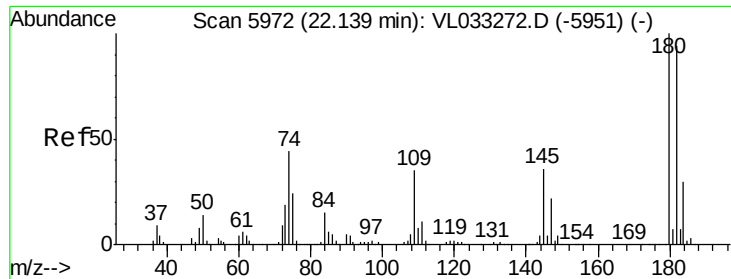
MMDadoda
3/14/2019 5:05:39 AM



#80
Naphthalene, 2-methyl-
Concen: 0.073 ppbv m
RT: 25.12 min Scan# 6900
Delta R.T. 0.00 min
Lab File: VL033274.D
Acq: 12 Mar 2019 3:36

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	5177		
141	80.6	68.0	102.0	
115	41.4	33.8	50.6	





#81
 1,2,4-Trichlorobenzene
 Concen: 0.761 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033274.D
 Acq: 12 Mar 2019 3:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	89.9	76.6	114.8
184	29.3	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:39 AM

