

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031319\
 Data File : VL033300.D
 Acq On : 13 Mar 2019 17:12
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 3/15/2019 10:41:40 PM

Quant Time: Mar 14 00:02:54 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 14

QLast Update : Wed Mar 13 17:31:13 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	823068	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1904676	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2181697	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1641243	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	212828	1.280	ppbv	98
3) Chlorodifluoromethane	3.01	51	223757	2.050	ppbv	99
4) Chloromethane	3.17	50	121468	2.081	ppbv	97
5) Vinyl Chloride	3.29	62	111482	1.956	ppbv	95
6) Bromomethane	3.52	94	69181	1.987	ppbv	100
7) Chloroethane	3.60	64	41817	2.029	ppbv #	88
8) Dichlorotetrafluoroethane	3.22	85	282208	2.008	ppbv	100
9) Propene	3.04	41	100684	2.023	ppbv	100
10) Heptane	8.24	43	268349	2.394	ppbv	99
11) Trichlorofluoromethane	4.00	101	313415	1.905	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	212114	2.253	ppbv	97
13) Ethanol	3.65	45	40754	2.684	ppbv	99
14) Bromoethene	3.79	108	87573	1.994	ppbv	97
15) Acetone	3.90	43	251140	1.989	ppbv	97
16) 1,3-Butadiene	3.36	39	93765	2.057	ppbv	90
17) tert-Butyl alcohol	4.36	59	39048m	2.305	ppbv	
18) 1,1-Dichloroethene	4.35	96	93391	2.241	ppbv	92
19) Isopropyl Alcohol	4.03	45	143306	1.878	ppbv #	98
20) Methylene Chloride	4.41	84	100147	2.386	ppbv	89
21) Allyl Chloride	4.48	41	136614	2.177	ppbv	97
22) trans-1,2-Dichloroethene	4.96	96	94435	2.124	ppbv	84
23) Vinyl Acetate	5.15	43	337439	2.133	ppbv	99
24) 1,1-Dichloroethane	5.09	63	242864	2.117	ppbv	99
25) Ethyl Acetate	5.77	43	434377	2.233	ppbv	98
26) Hexane	5.78	57	210602	2.306	ppbv	93
27) Carbon Disulfide	4.62	76	207939	2.146	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	280835	2.167	ppbv	99
29) Chloroform	5.84	83	309130	2.225	ppbv	98
30) Cyclohexane	7.25	84	153107	2.163	ppbv	87
31) cis-1,2-Dichloroethene	5.64	61	191368	2.186	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	286349	2.115	ppbv	98
34) 2-Butanone	5.33	43	276065	2.192	ppbv	100
35) Carbon Tetrachloride	7.13	117	295371	2.122	ppbv	98
36) Benzene	7.00	78	391925	2.231	ppbv	99
37) 1,2-Dichloroethane	6.41	62	226707	2.152	ppbv	98
38) Trichloroethene	7.96	130	159436	2.328	ppbv	97
39) 1,2-Dichloropropane	7.73	63	159440	2.412	ppbv	99
40) 1,4-Dioxane	7.97	88	62481m	2.511	ppbv	
41) Tetrahydrofuran	6.15	42	151396	2.165	ppbv	99
42) Bromodichloromethane	7.91	83	349311	2.408	ppbv	97
43) Methyl Methacrylate	8.14	69	169940	2.482	ppbv	99

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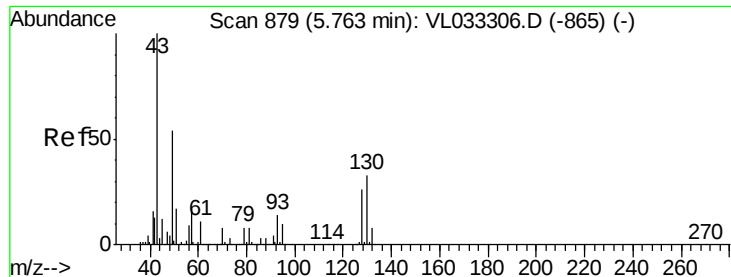
Manual Integrations
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 3/15/2019 10:41:40 PM

Quant Time: Mar 14 00:02:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 14 00:02:54 2019
 QLast Update : Wed Mar 13 17:31:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	727470	2.438	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	190707	2.266	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	233548	2.367	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	169790	2.405	ppbv	97
48) Dibromochloromethane	10.44	129	268499	2.320	ppbv	99
49) Bromoform	13.20	173	214417	2.286	ppbv	98
50) 4-Methyl-2-Pentanone	8.87	43	436440	2.428	ppbv	100
51) 2-Hexanone	10.27	43	327874	2.390	ppbv	99
52) Tetrachloroethene	11.37	164	150728	2.341	ppbv	90
53) Toluene	9.95	91	482423	2.383	ppbv	100
54) 1,2-Dibromoethane	10.76	107	261000	2.406	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	200453	2.161	ppbv #	1
57) Chlorobenzene	12.30	112	356686	2.168	ppbv	97
58) Ethyl Benzene	12.86	91	645588	2.153	ppbv	100
59) m/p-Xylene	13.12	91	1082151m	4.316	ppbv	
60) o-Xylene	13.85	91	524310	2.175	ppbv	99
61) Styrene	13.68	104	366372	2.134	ppbv	99
62) Isopropylbenzene	14.83	105	722372	2.151	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	351521	2.176	ppbv	100
64) n-propylbenzene	15.72	120	180838	2.188	ppbv	98
65) tert-Butylbenzene	16.91	119	621386	2.192	ppbv	98
66) Benzyl Chloride	17.15	91	215769m	1.965	ppbv	
67) sec-Butylbenzene	17.46	105	888688	2.202	ppbv	98
69) p-Isopropyltoluene	17.81	119	712788	2.187	ppbv	99
70) n-Butylbenzene	18.71	91	738188	2.109	ppbv	100
71) 2-Chlorotoluene	15.61	91	540052	2.133	ppbv	99
72) 4-Ethyltoluene	16.00	105	561020	2.155	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	503175	2.051	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	514270	2.058	ppbv #	94
75) 1,3-Dichlorobenzene	17.16	146	331694	2.215	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	315321	2.129	ppbv	98
77) 1,2-Dichlorobenzene	17.98	146	323131m	2.168	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	245344	1.975	ppbv	100
79) Naphthalene	22.42	128	372438m	1.377	ppbv	
80) Naphthalene,2-methyl-	25.12	142	22682	0.306	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	227054m	1.594	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

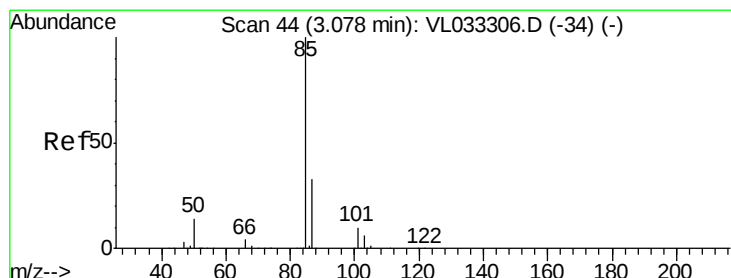
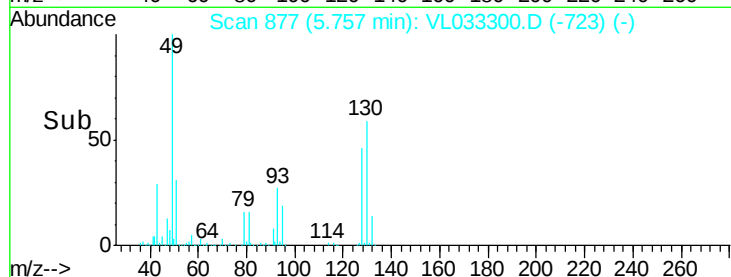
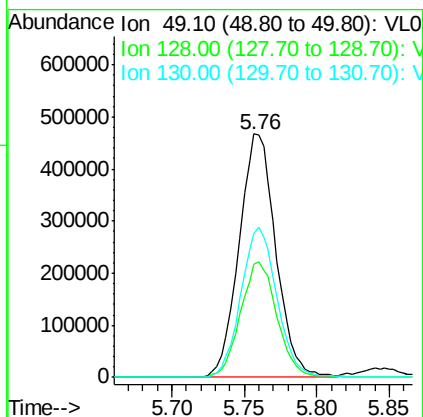
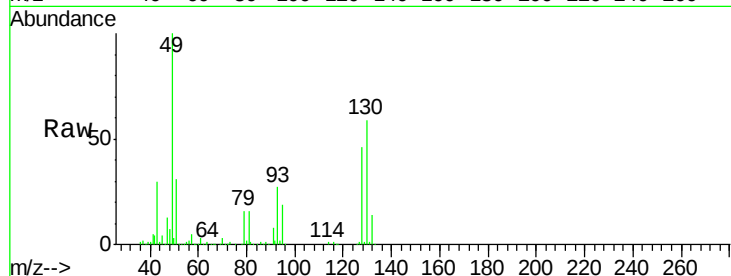
ClientSampleId :

VSTDIC002

Tgt Ion:	49	Resp:	823068
Ion Ratio	Lower	Upper	
49	100		
128	47.3	23.4	70.3
130	60.7	29.9	89.7

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#2

Dichlorodifluoromethane

Concen: 1.280 ppbv

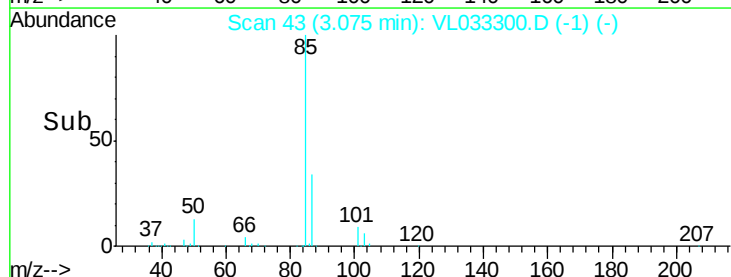
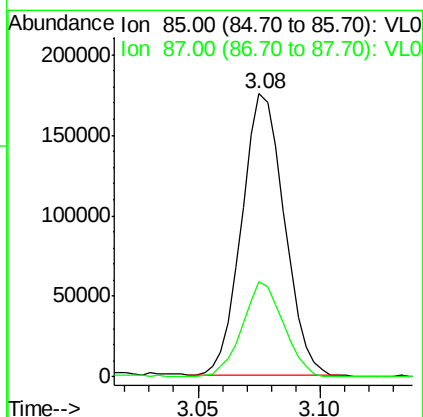
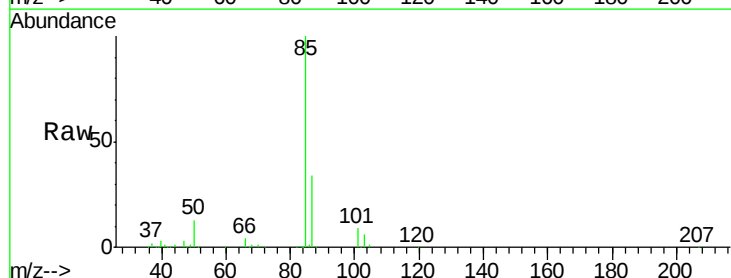
RT: 3.08 min Scan# 43

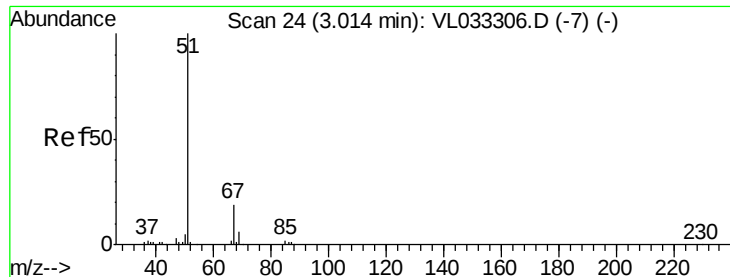
Delta R.T. -0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Tgt Ion:	85	Resp:	212828
Ion Ratio	Lower	Upper	
85	100		
87	33.6	25.8	38.8





#3

Chlorodifluoromethane

Concen: 2.050 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 51 Resp: 223757

Ion Ratio Lower Upper

51 100

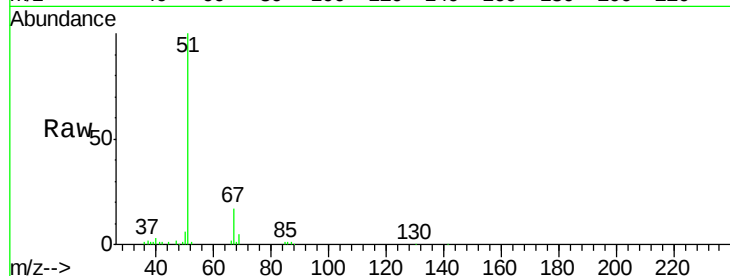
67 18.2 14.9 22.3

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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

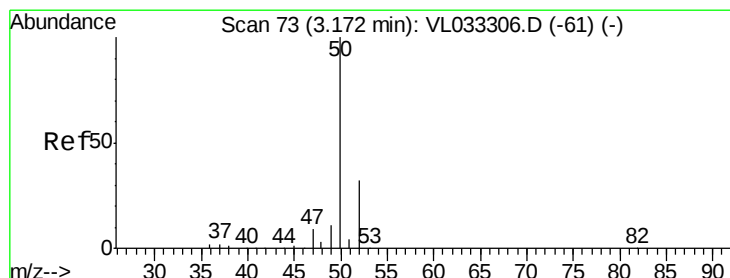
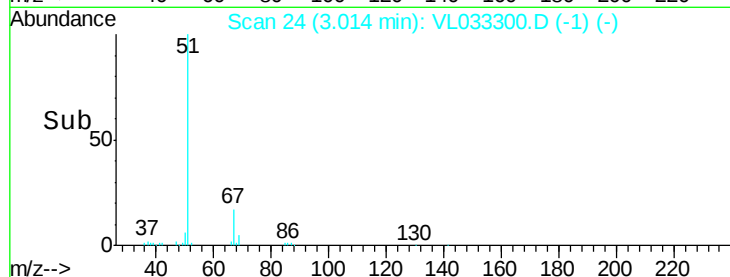
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 2.081 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033300.D

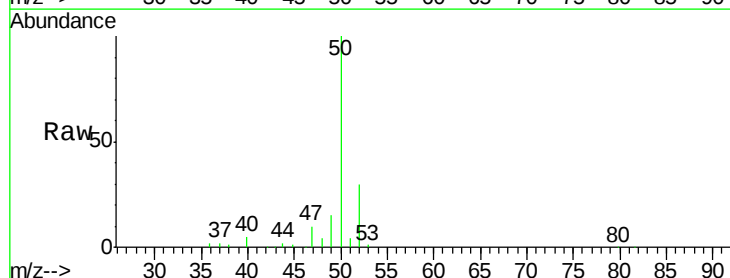
Acq: 13 Mar 2019 17:12

Tgt Ion: 50 Resp: 121468

Ion Ratio Lower Upper

50 100

52 30.2 25.7 38.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.17

100000

80000

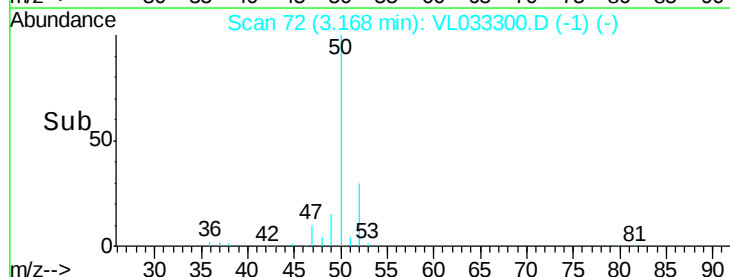
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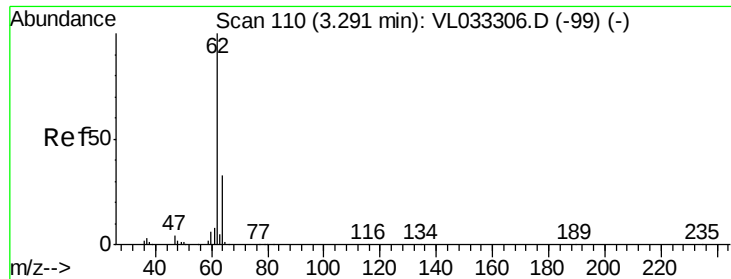
40000

20000

0

Time-->





#5

Vinyl Chloride

Concen: 1.956 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 62 Resp: 111482

Ion Ratio Lower Upper

62 100

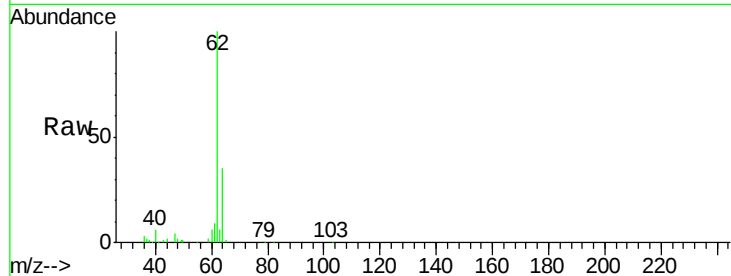
64 34.9 25.5 38.3

Manual Integrations

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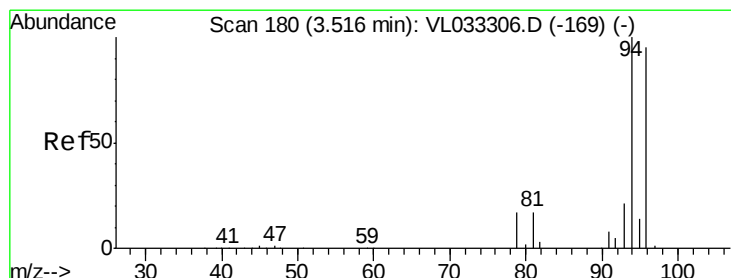
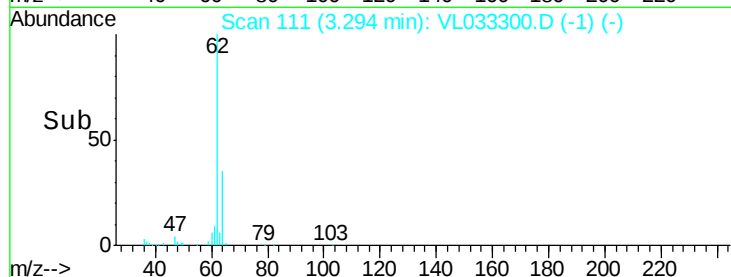
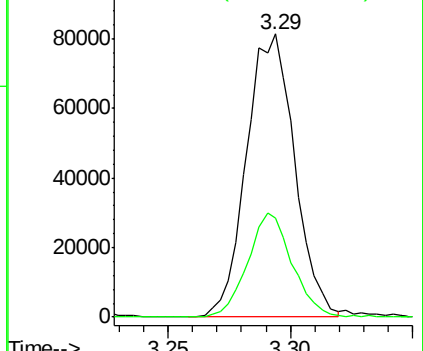
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 1.987 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033300.D

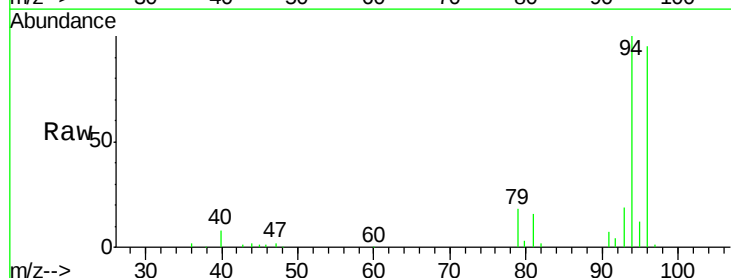
Acq: 13 Mar 2019 17:12

Tgt Ion: 94 Resp: 69181

Ion Ratio Lower Upper

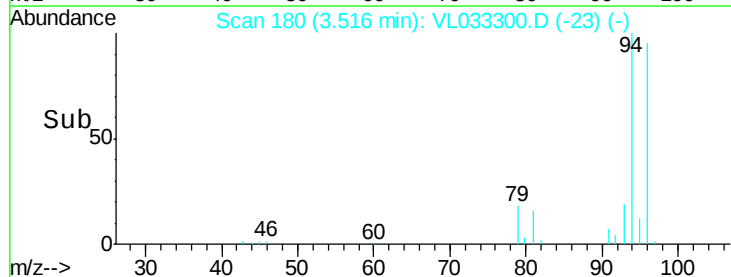
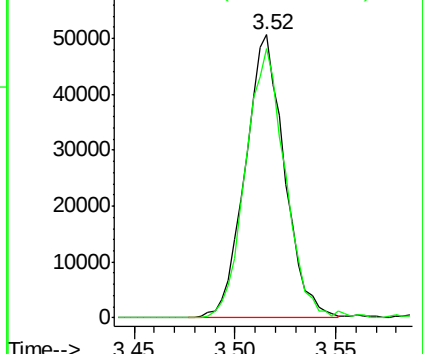
94 100

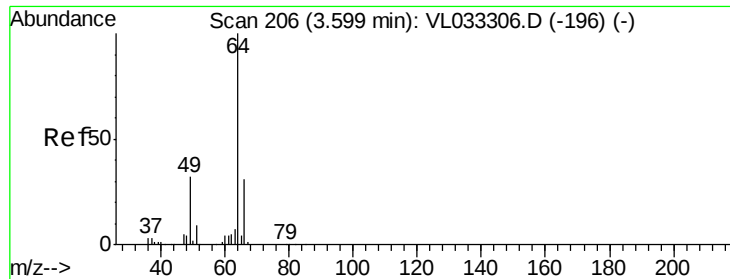
96 95.0 76.2 114.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 2.029 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 64 Resp: 41817

Ion Ratio Lower Upper

64 100

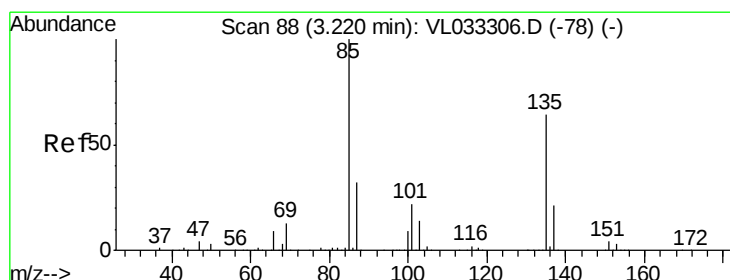
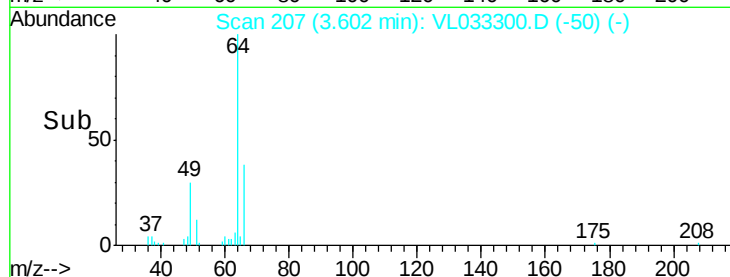
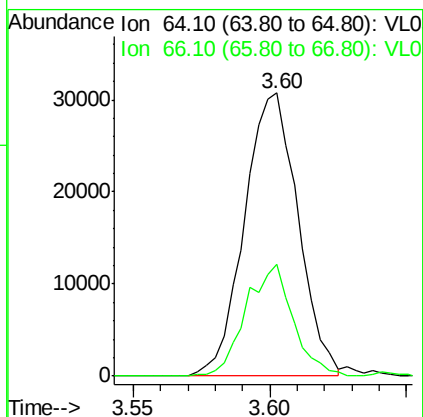
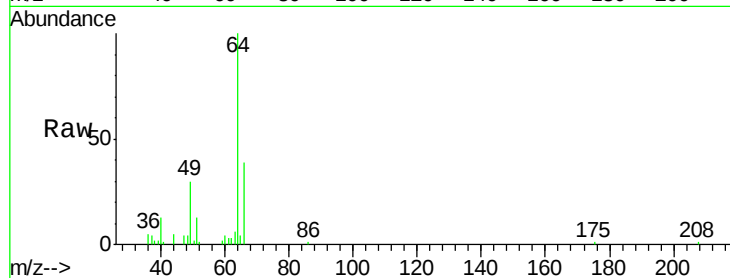
66 37.9 24.9 37.3#

Manual Integrations

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3/15/2019 10:41:40 PM



#8

Dichlorotetrafluoroethane

Concen: 2.008 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033300.D

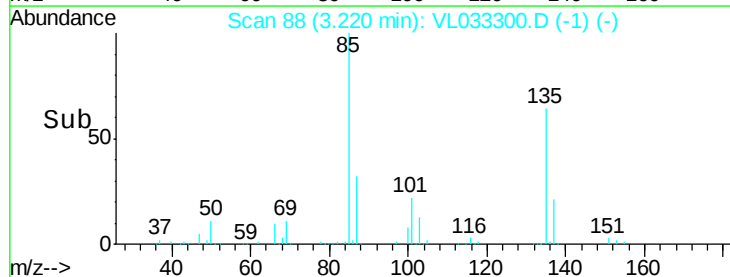
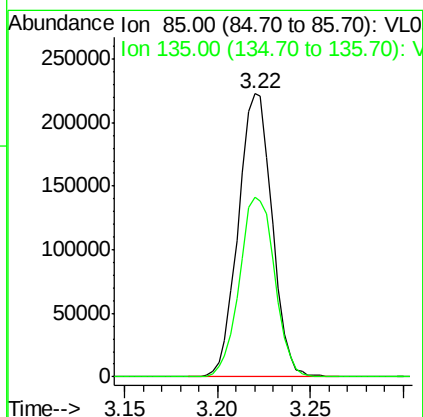
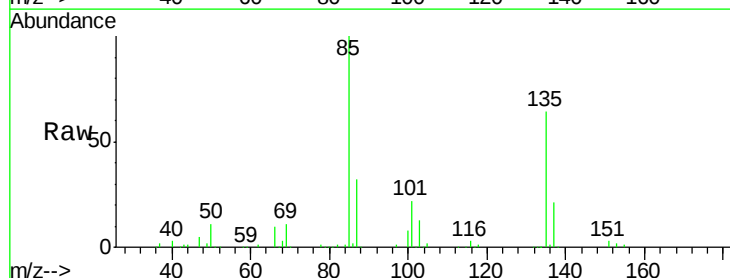
Acq: 13 Mar 2019 17:12

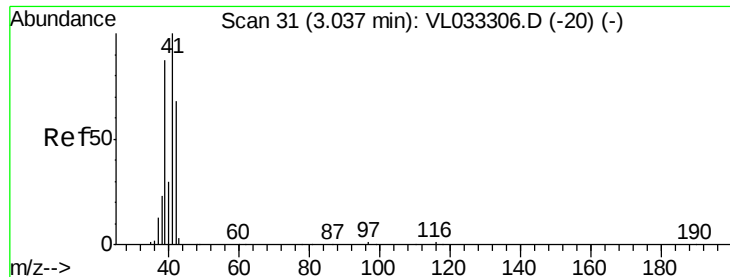
Tgt Ion: 85 Resp: 282208

Ion Ratio Lower Upper

85 100

135 66.2 52.9 79.3





#9

Propene

Concen: 2.023 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 41 Resp: 100684

Ion Ratio Lower Upper

41 100

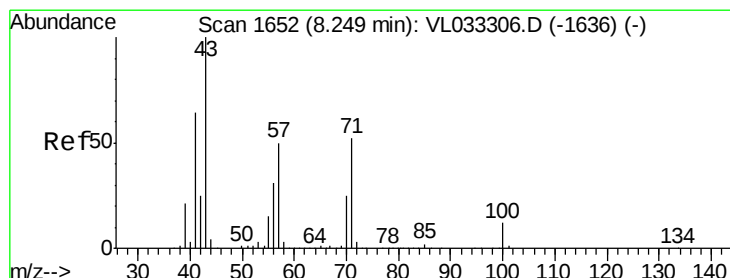
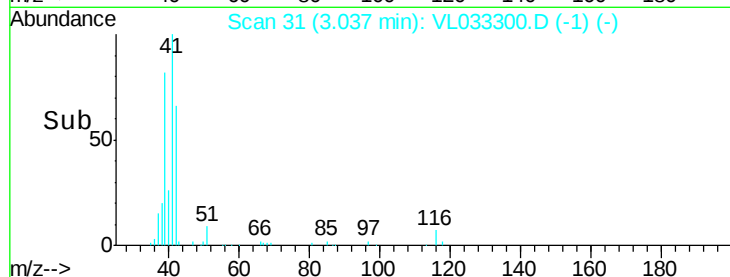
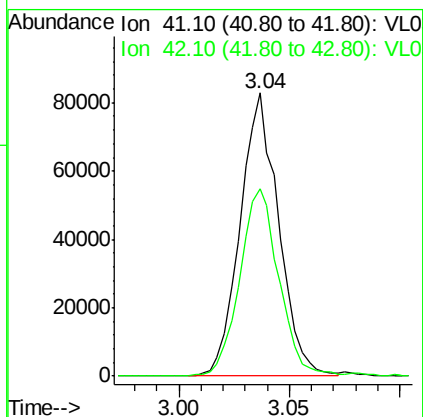
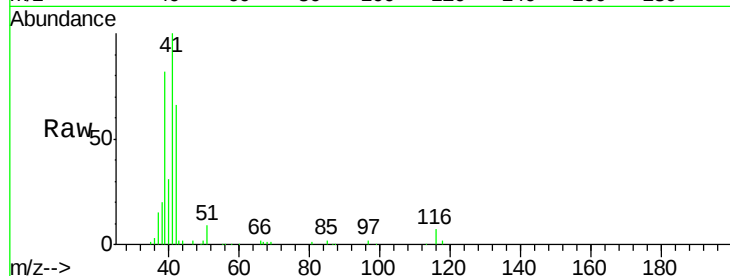
42 67.8 54.4 81.6

Manual Integrations

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#10

Heptane

Concen: 2.394 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033300.D

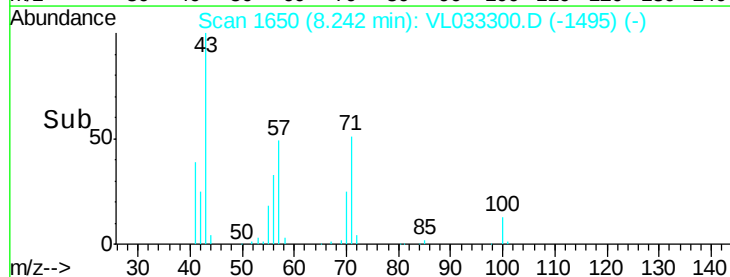
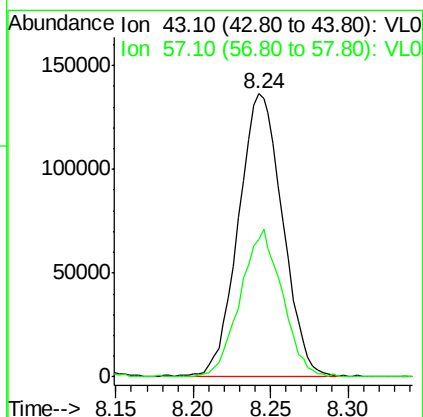
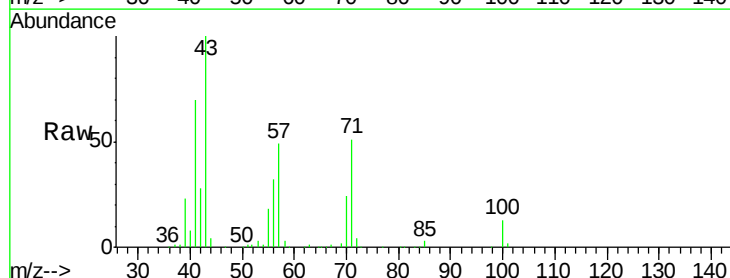
Acq: 13 Mar 2019 17:12

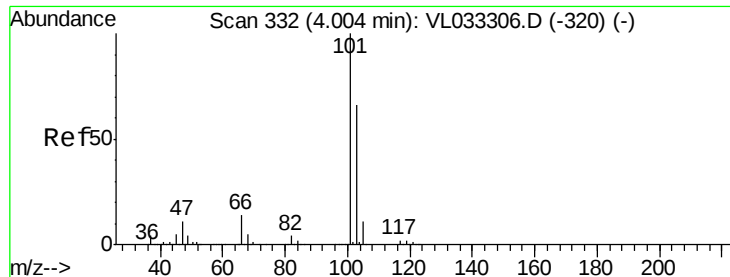
Tgt Ion: 43 Resp: 268349

Ion Ratio Lower Upper

43 100

57 50.2 39.6 59.4





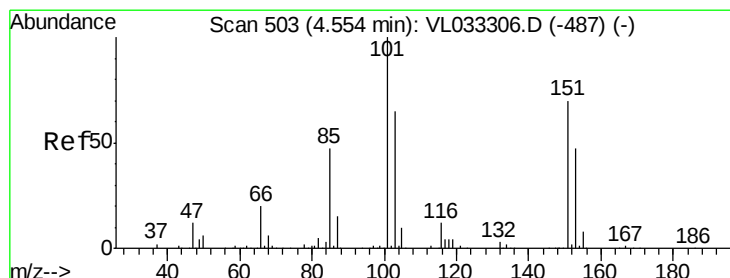
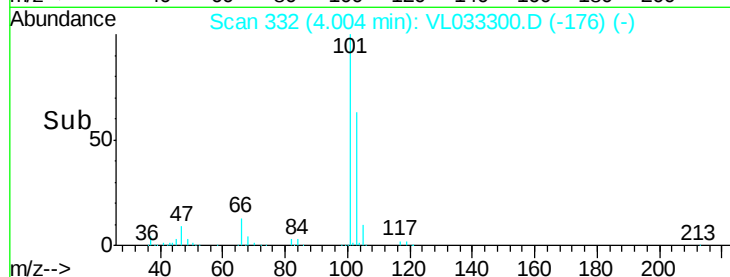
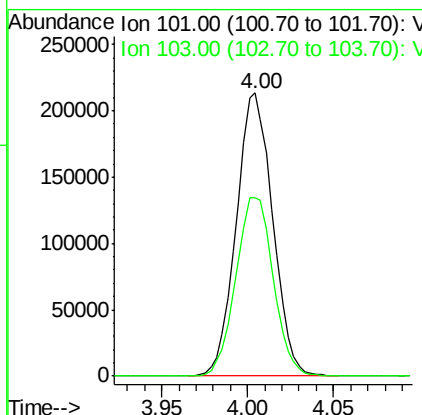
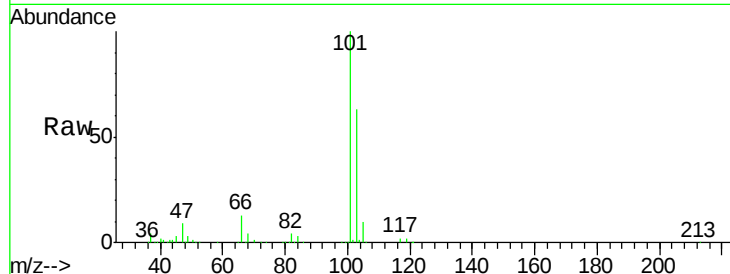
#11
 Trichlorofluoromethane
 Concen: 1.905 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	313415		
103	63.0	52.5	78.7	

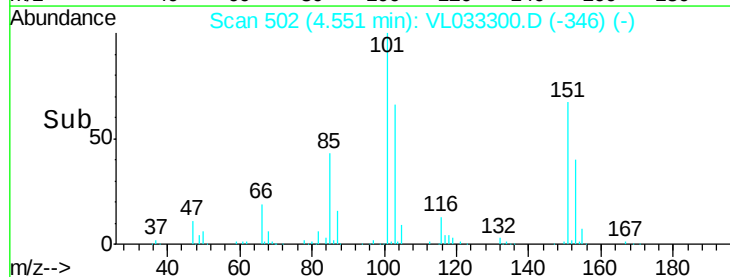
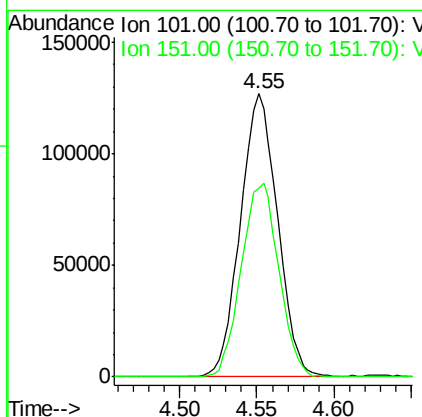
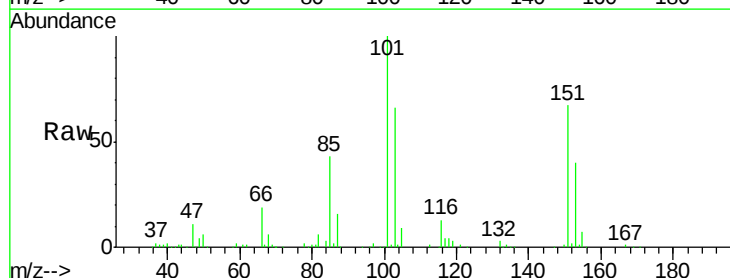
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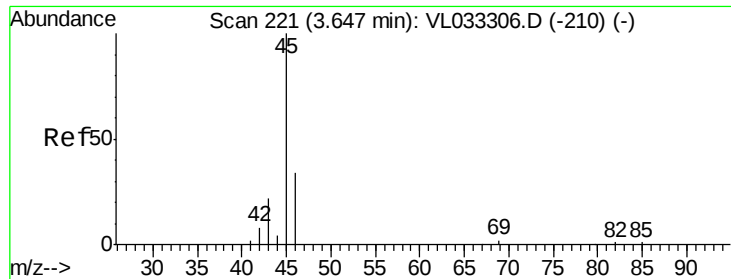
MMDadoda
 3/15/2019 10:41:40 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.253 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	212114		
151	69.4	57.2	85.8	





#13

Ethanol

Concen: 2.684 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 45 Resp: 40754

Ion Ratio Lower Upper

45 100

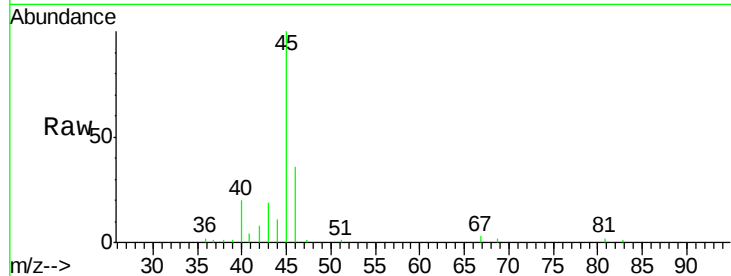
46 37.9 14.9 59.5

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.65

25000

20000

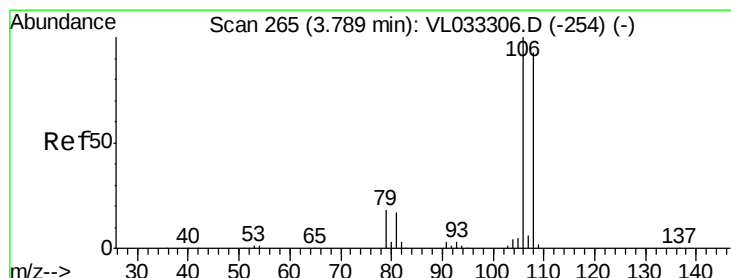
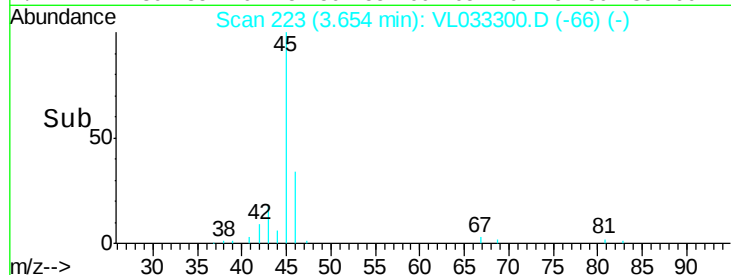
15000

10000

5000

0

Time-->



#14

Bromoethene

Concen: 1.994 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

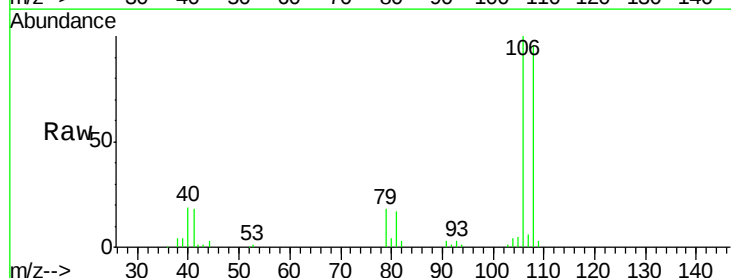
Tgt Ion: 108 Resp: 87573

Ion Ratio Lower Upper

108 100

106 108.9 85.1 127.7

79 21.2 15.0 22.6



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

80000

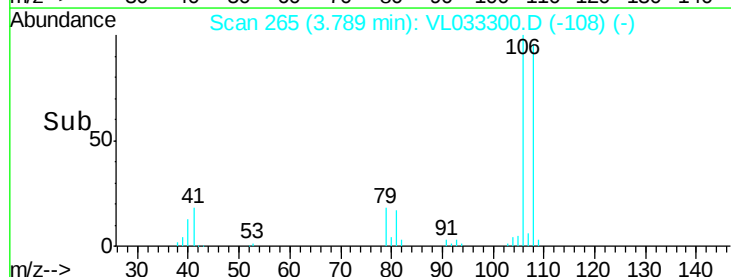
60000

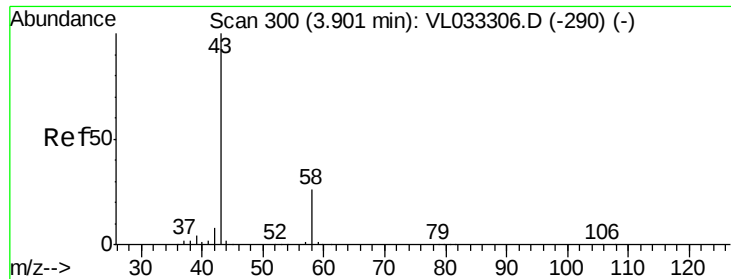
40000

20000

0

Time-->





#15

Acetone

Concen: 1.989 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 251140

Ion Ratio Lower Upper

43 100

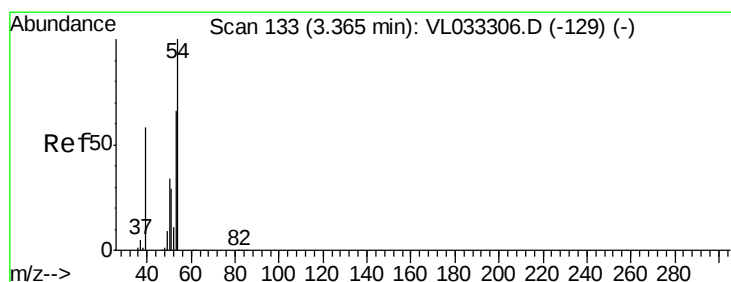
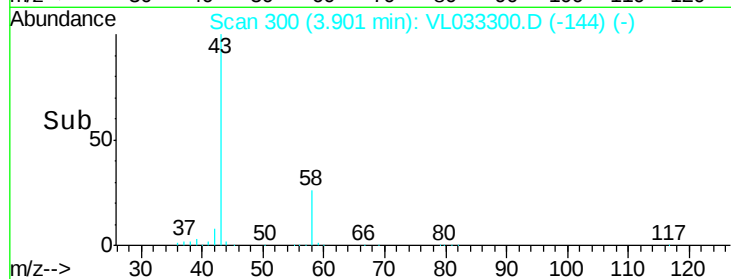
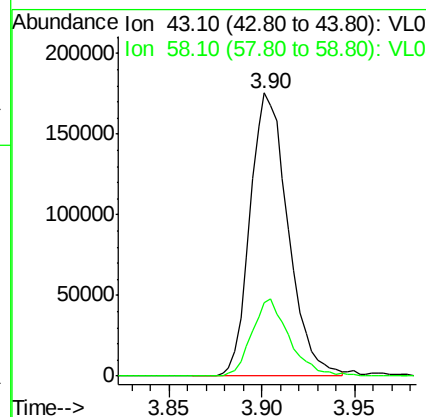
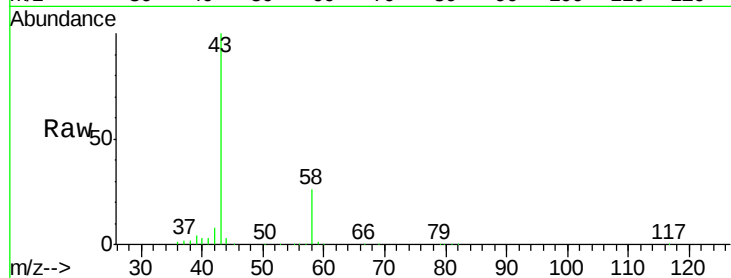
58 27.3 20.6 31.0

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3/15/2019 10:41:40 PM



#16

1,3-Butadiene

Concen: 2.057 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033300.D

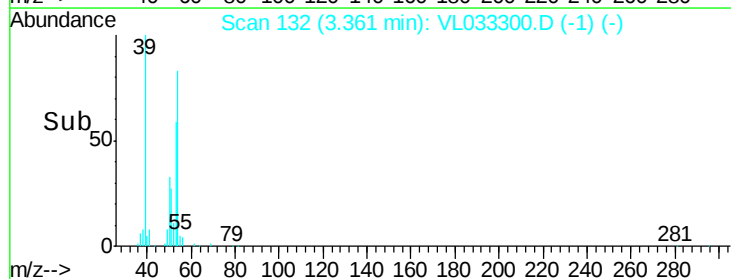
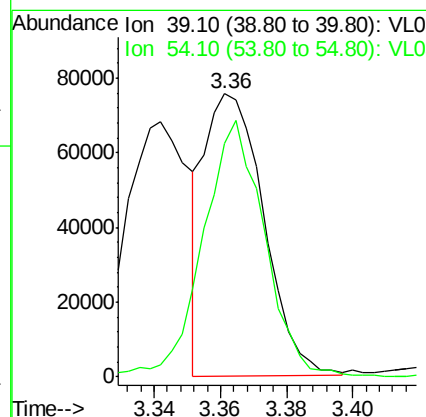
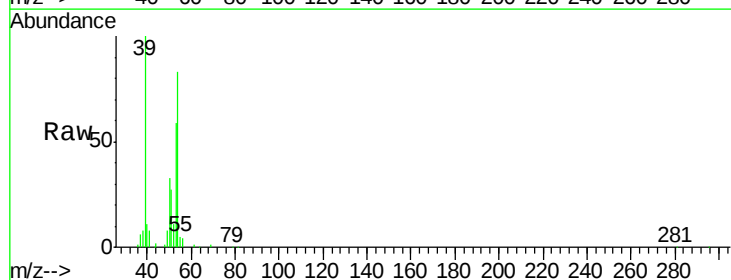
Acq: 13 Mar 2019 17:12

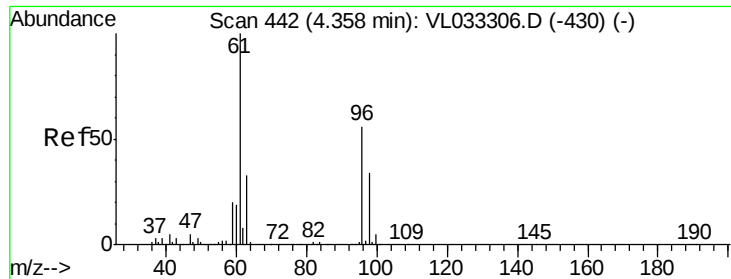
Tgt Ion: 39 Resp: 93765

Ion Ratio Lower Upper

39 100

54 94.5 68.4 102.6





#17

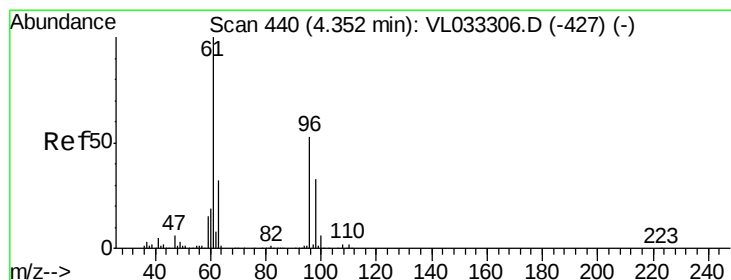
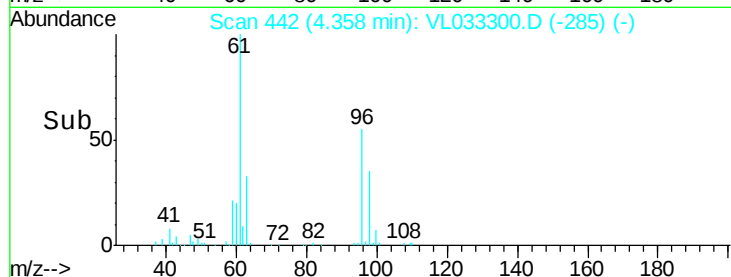
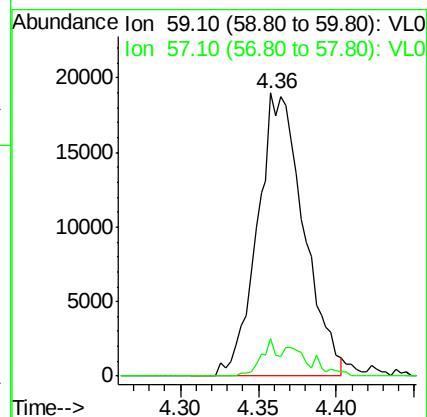
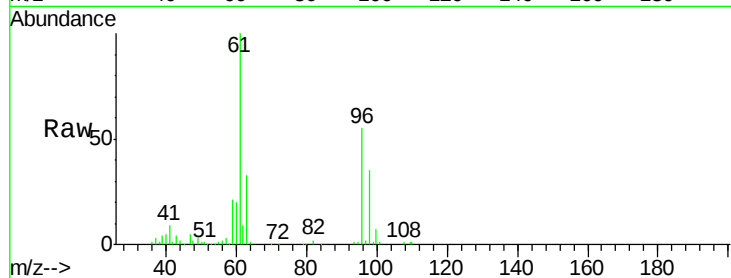
tert-Butyl alcohol
Concen: 2.305 ppbv m
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.8	7.4	11.2

Manual Integrations
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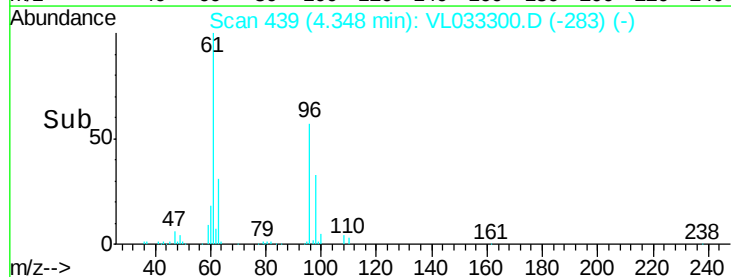
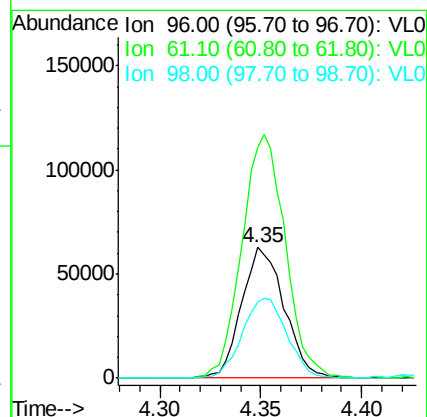
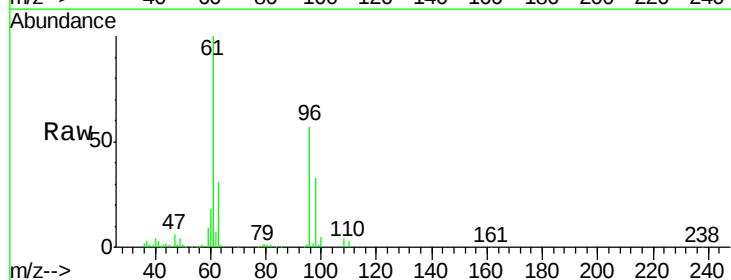
MMDadoda
3/15/2019 10:41:40 PM

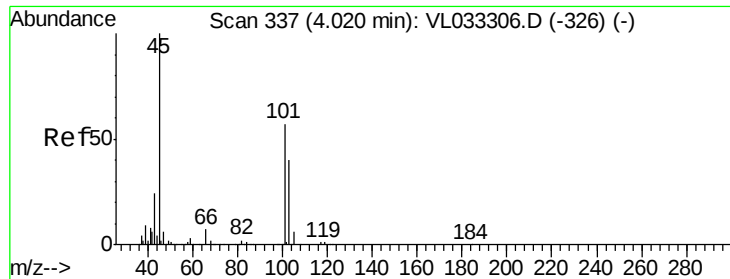


#18

1,1-Dichloroethene
Concen: 2.241 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	176.1	152.3	228.5
98	57.7	48.6	72.8





#19

Isopropyl Alcohol

Concen: 1.878 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 45 Resp: 143306

Ion Ratio Lower Upper

45 100

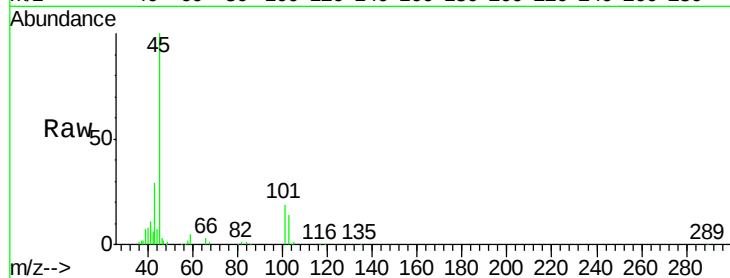
58 2.5 1.4 2.0#

Manual Integrations

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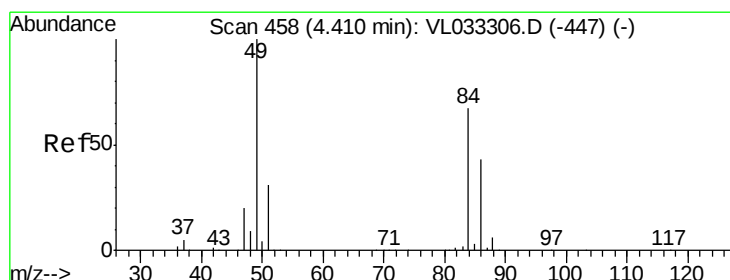
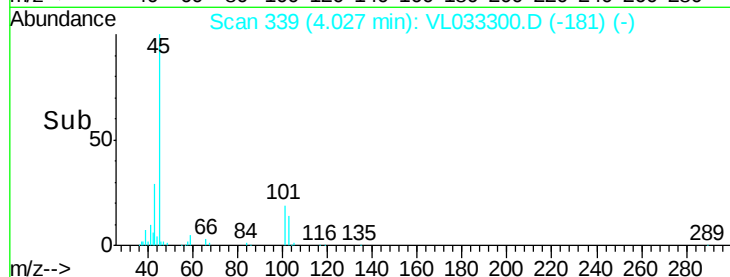
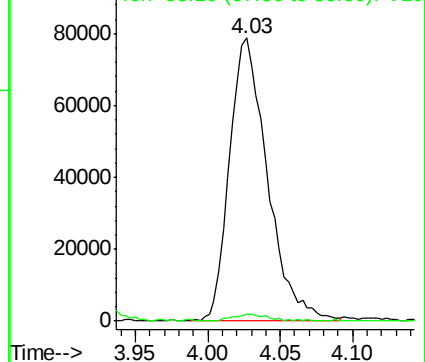
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 2.386 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Tgt Ion: 84 Resp: 100147

Ion Ratio Lower Upper

84 100

49 129.0 115.4 173.2

51 43.8 35.7 53.5

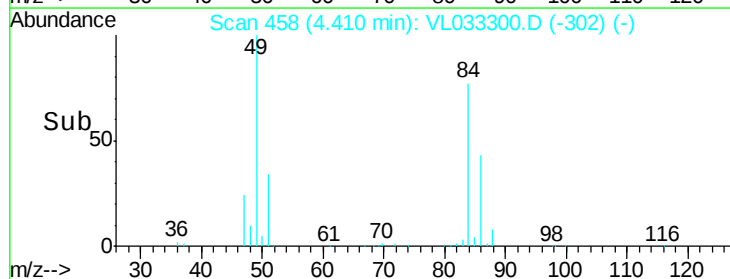
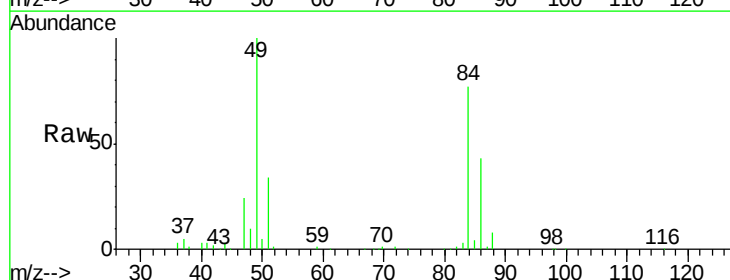
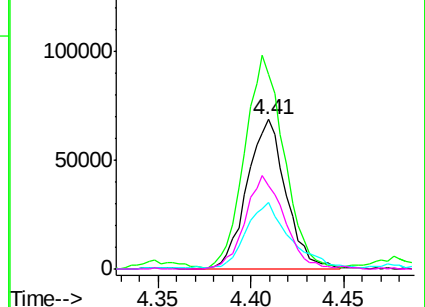
86 55.4 52.6 78.8

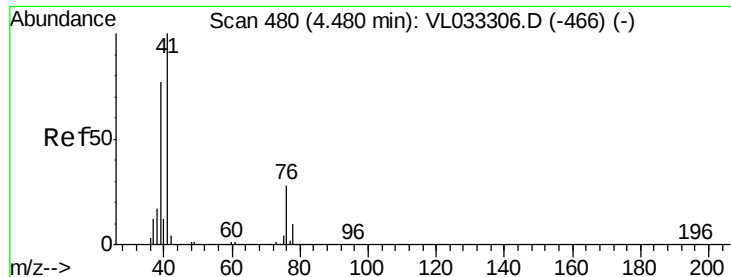
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





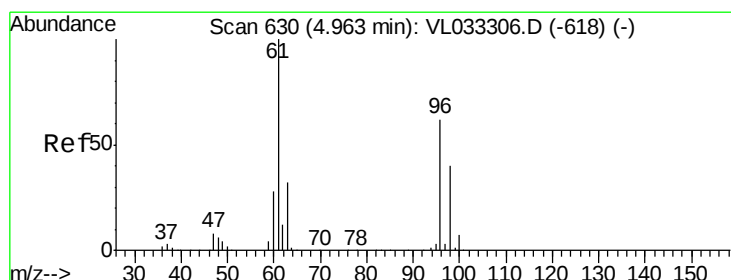
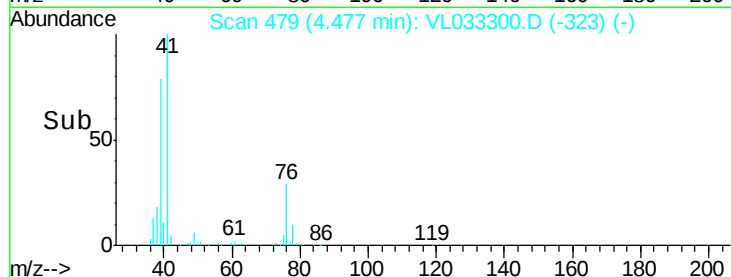
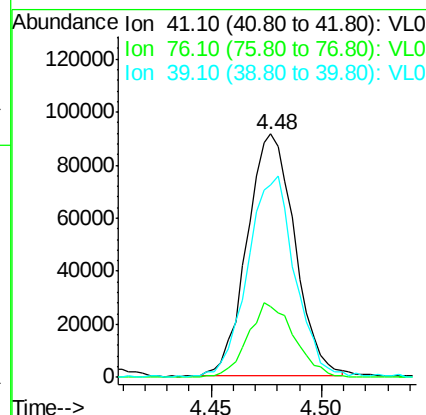
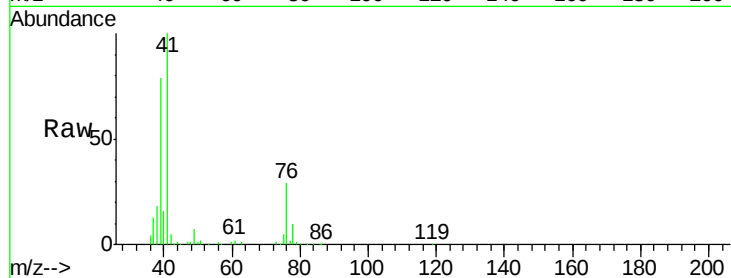
#21
 Allyl Chloride
 Concen: 2.177 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. 0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
41	100		
76	29.9	24.3	36.5
39	84.1	64.4	96.6

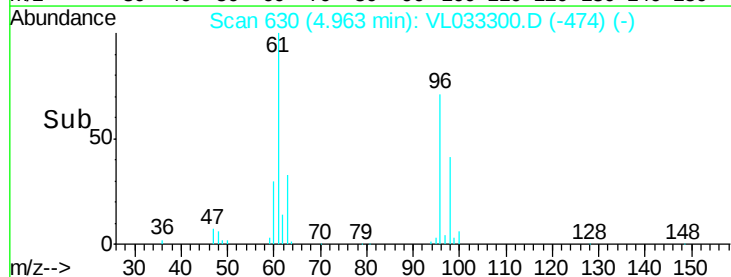
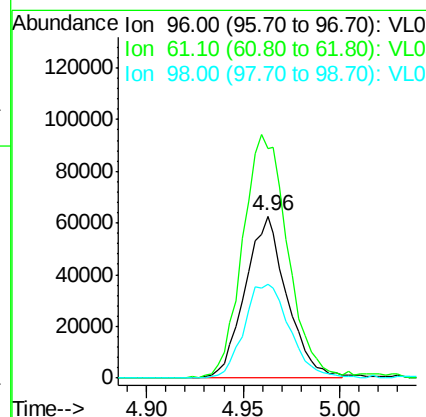
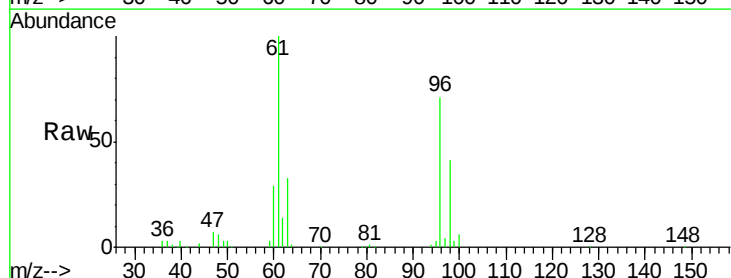
Manual Integrations
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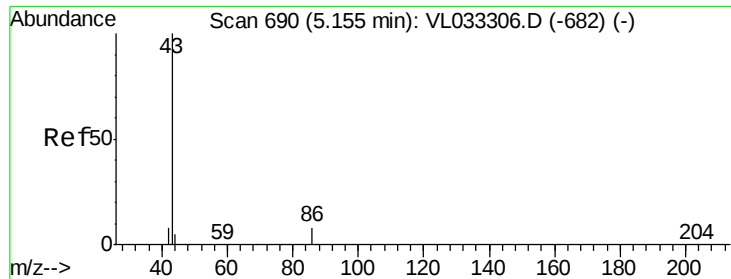
MMDadoda
 3/15/2019 10:41:40 PM



#22
 trans-1,2-Dichloroethene
 Concen: 2.124 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. 0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.2	132.7	199.1
98	57.7	52.4	78.6





#23

Vinyl Acetate

Concen: 2.133 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

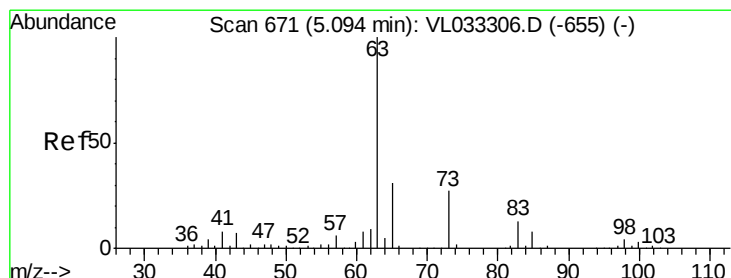
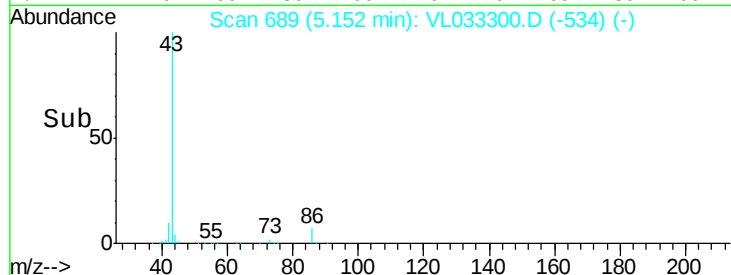
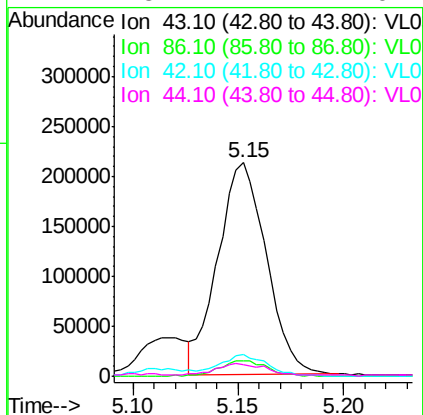
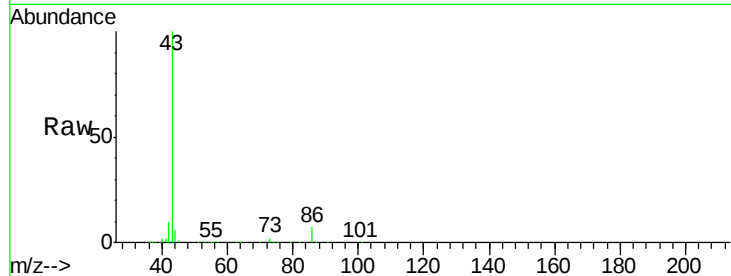
ClientSampleId :

VSTDIC002

Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.8	8.8
42	10.1	7.8	11.8
44	5.2	4.1	6.1

Manual Integrations
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3/15/2019 10:41:40 PM



#24

1,1-Dichloroethane

Concen: 2.117 ppbv

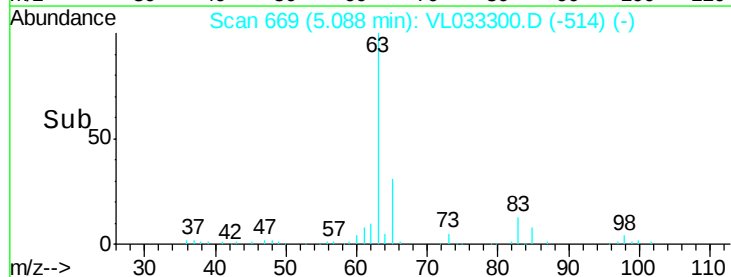
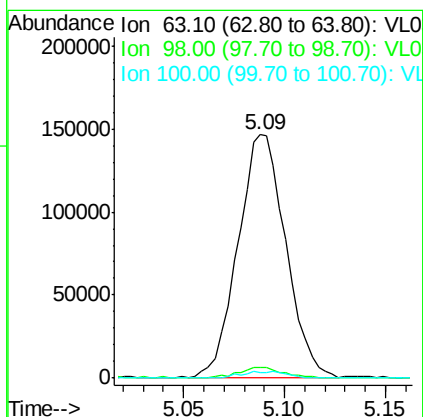
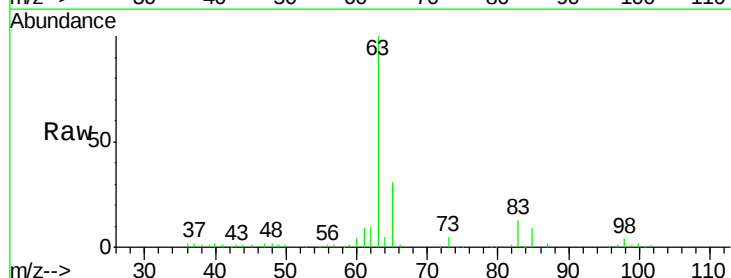
RT: 5.09 min Scan# 669

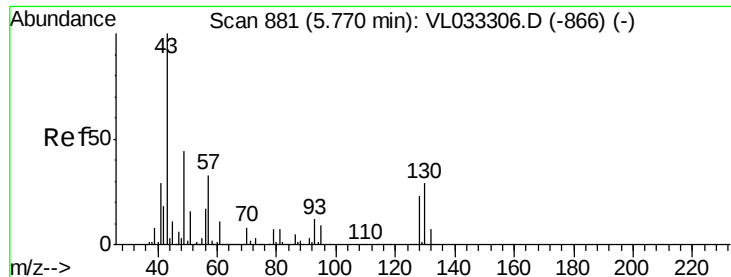
Delta R.T. -0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.0	2.3	6.8
100	2.7	1.3	3.8





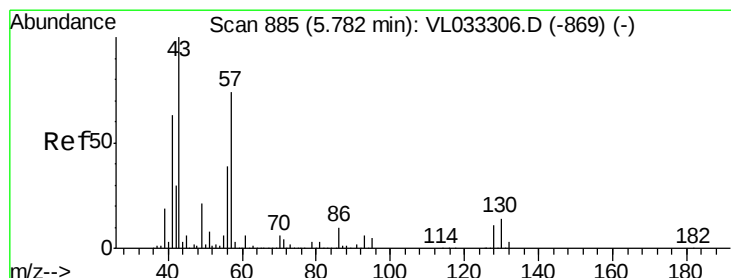
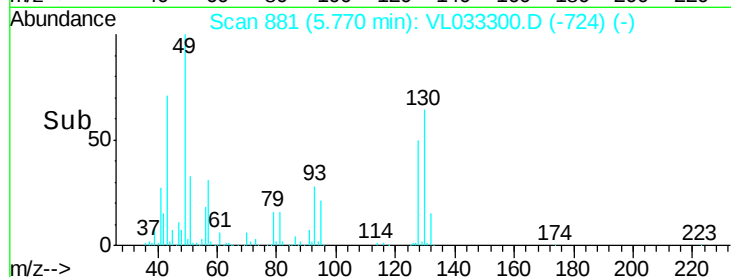
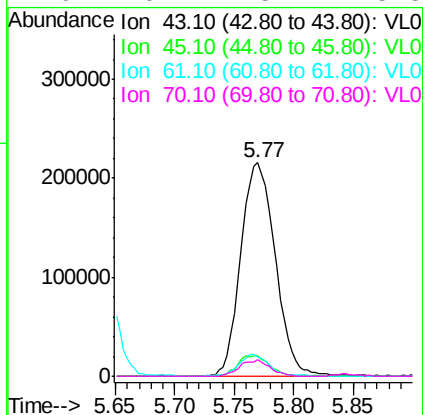
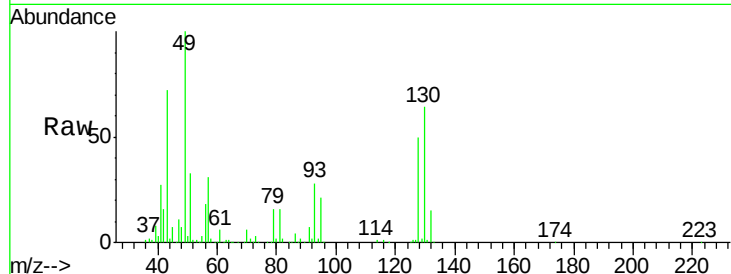
#25
Ethyl Acetate
Concen: 2.233 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.1	8.0	12.0
61	9.0	7.5	11.3
70	6.7	5.7	8.5

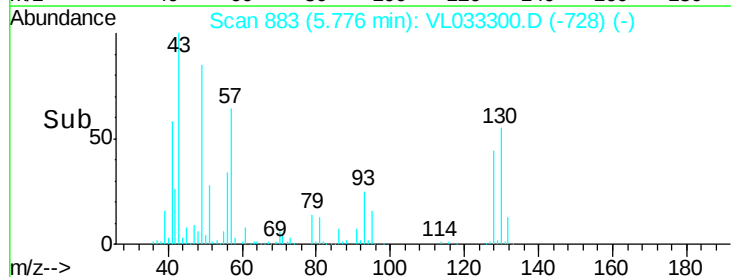
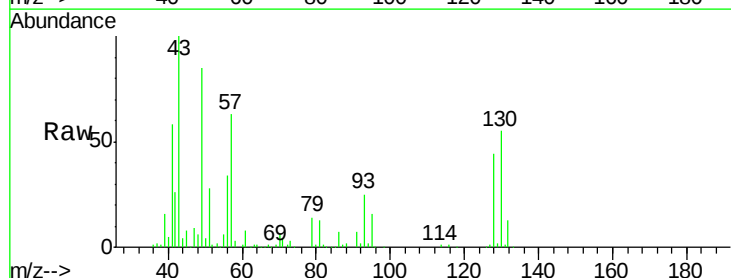
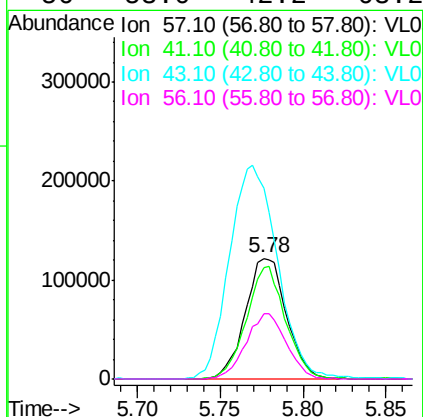
Manual Integrations
APPROVED

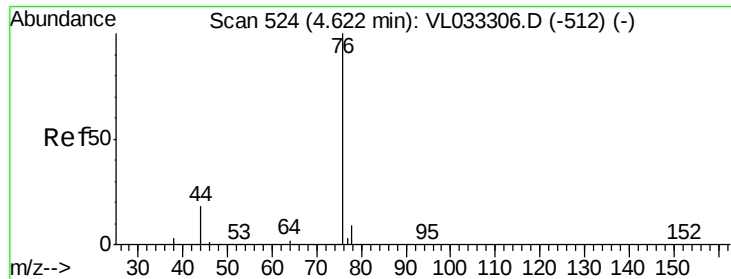
MMDadoda
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#26
Hexane
Concen: 2.306 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
57	100		
41	88.6	71.6	107.4
43	206.1	179.2	268.8
56	53.0	42.2	63.2





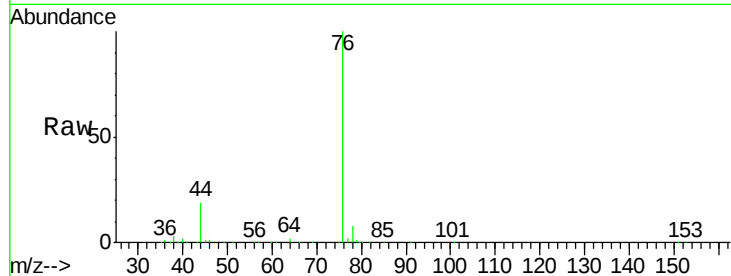
#27
Carbon Disulfide
Concen: 2.146 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

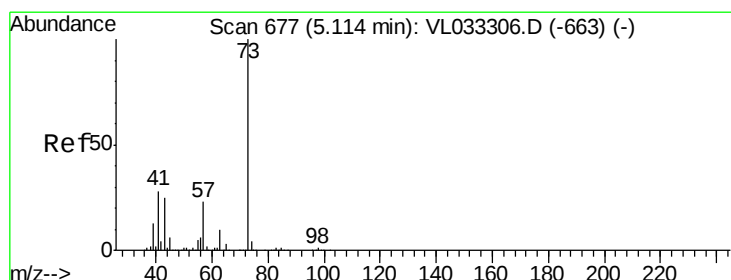
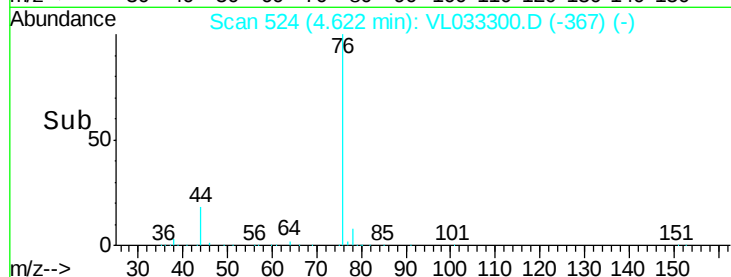
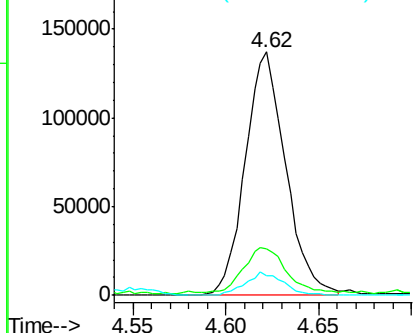
Tgt Ion	Ratio	Lower	Upper
76	100		
44	19.4	14.7	22.1
78	9.2	7.3	10.9

Manual Integrations
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MMDadoda
3/15/2019 10:41:40 PM

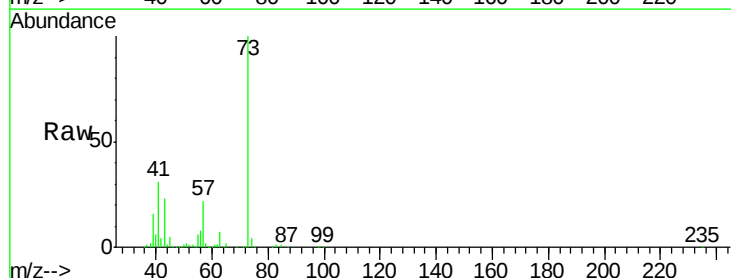


Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

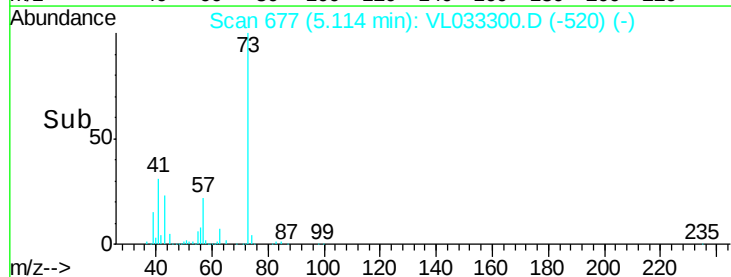
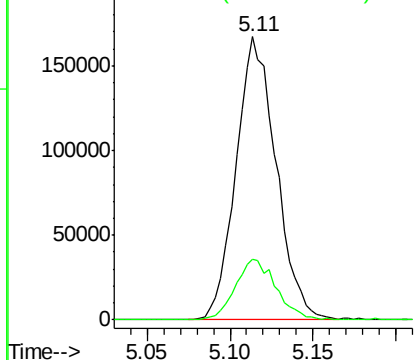


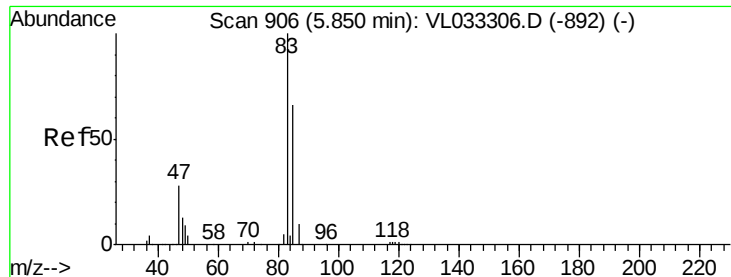
#28
Methyl tert-Butyl Ether
Concen: 2.167 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.4	26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 2.225 ppbv

RT: 5.84 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 83 Resp: 309130

Ion Ratio Lower Upper

83 100

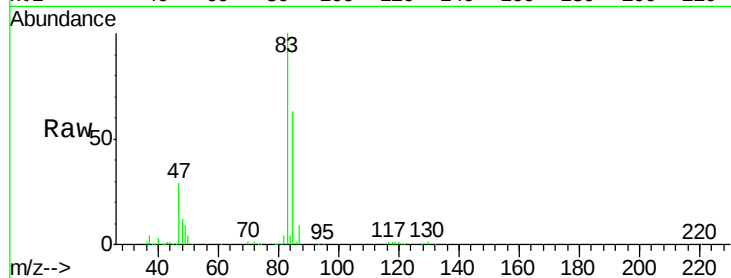
85 63.4 52.2 78.4

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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.84

200000

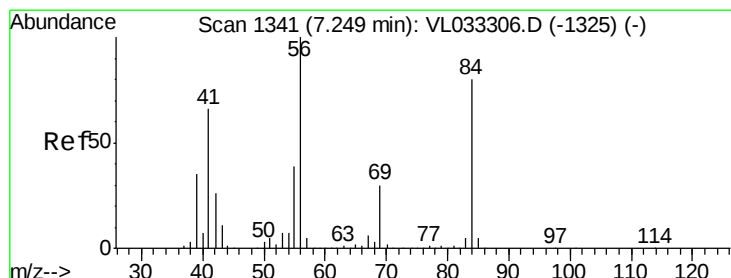
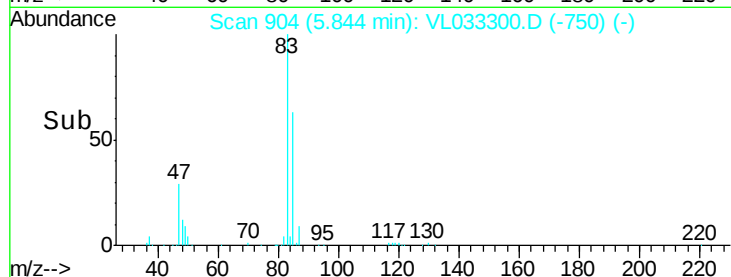
150000

100000

50000

0

Time-->



#30

Cyclohexane

Concen: 2.163 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

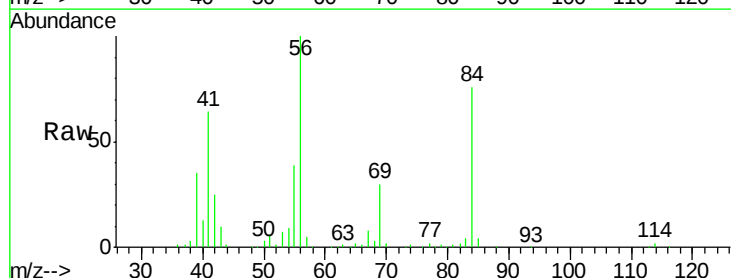
Tgt Ion: 84 Resp: 153107

Ion Ratio Lower Upper

84 100

56 160.8 109.8 164.8

41 86.3 68.1 102.1



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

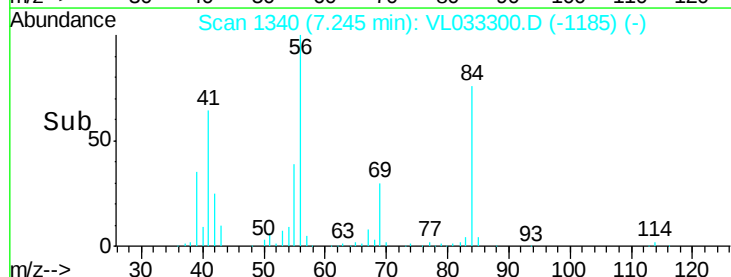
7.25

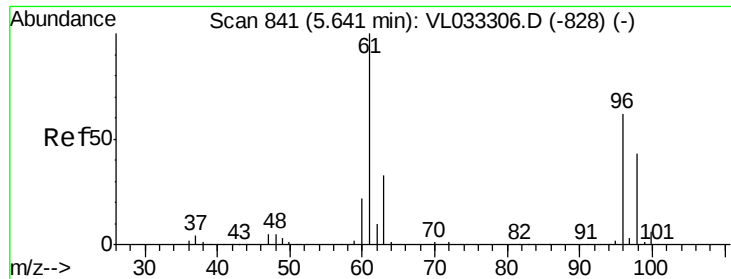
100000

50000

0

Time-->





#31

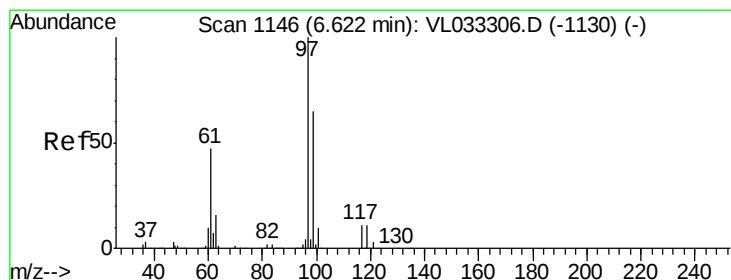
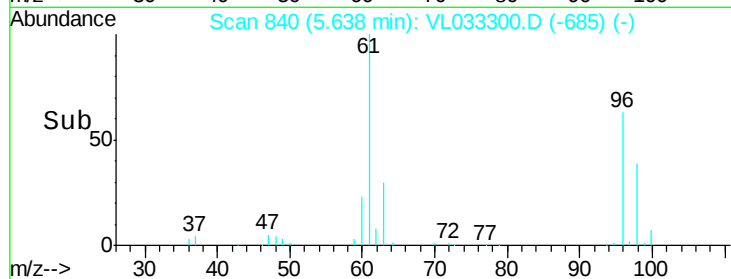
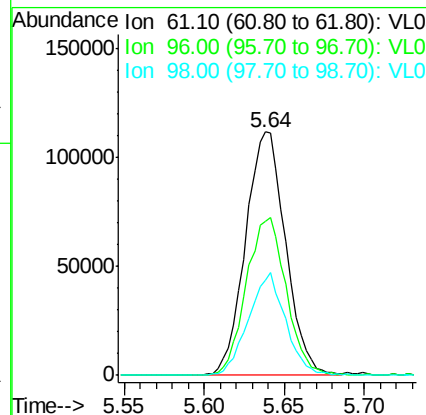
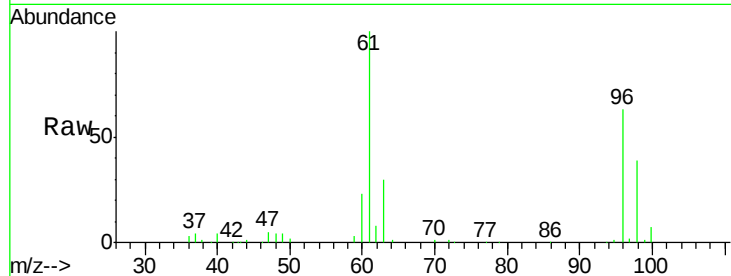
cis-1,2-Dichloroethene
Concen: 2.186 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
61	100	191368		
96	63.1	51.8	77.6	
98	39.2	32.3	48.5	

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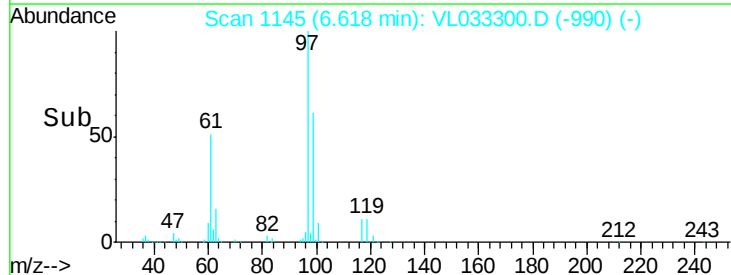
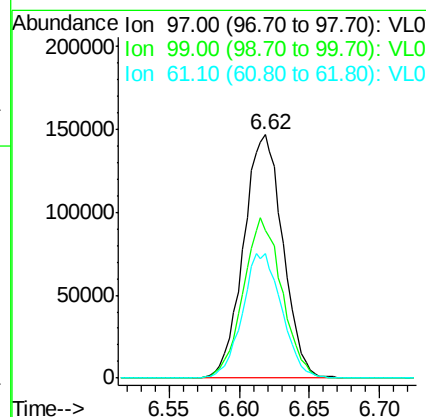
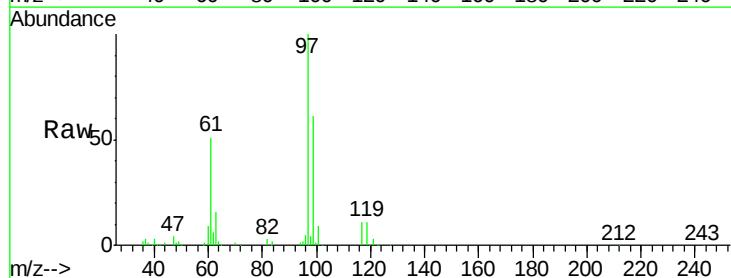
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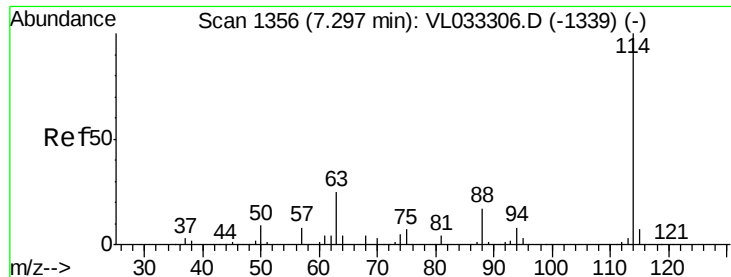


#32

1,1,1-Trichloroethane
Concen: 2.115 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	286349		
99	64.8	51.6	77.4	
61	51.5	39.4	59.2	





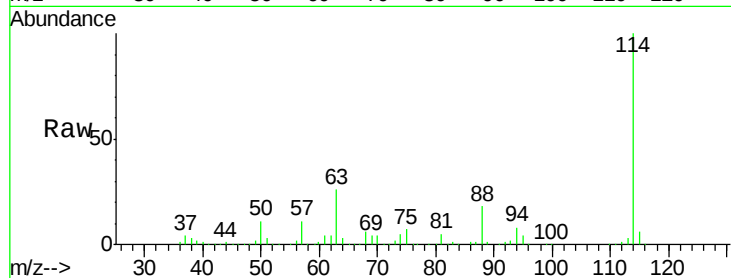
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.3	31.9
88	18.2	14.5	21.7

Manual Integrations
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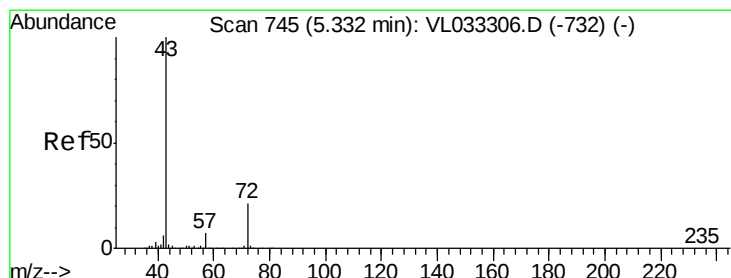
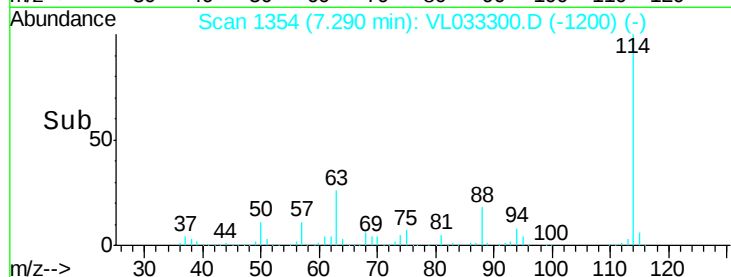
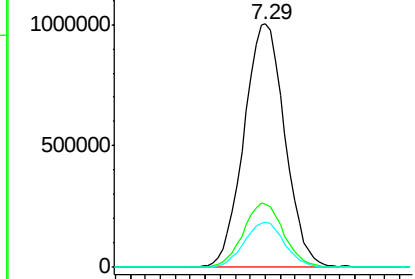
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Abundance Ion 114.10 (113.80 to 114.80): VL033300.D (-1200) (-)

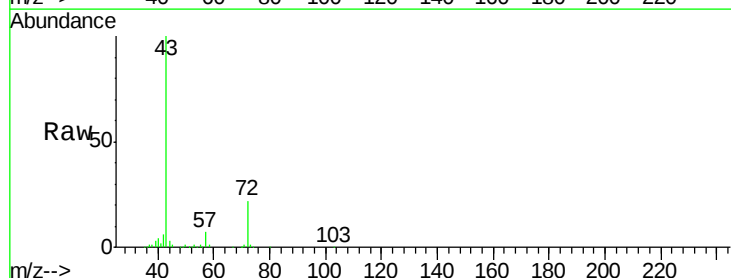
Ion 63.10 (62.80 to 63.80): VL033300.D (-1200) (-)

Ion 88.10 (87.80 to 88.80): VL033300.D (-1200) (-)



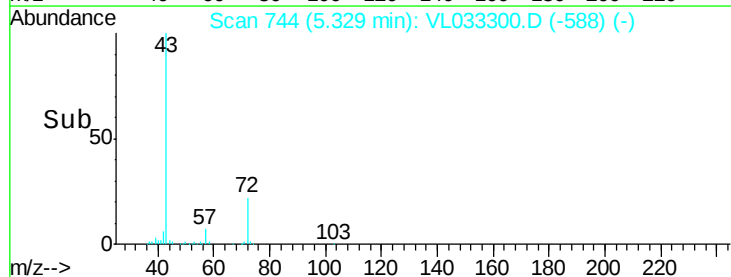
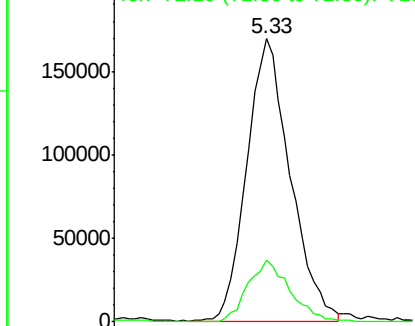
#34
 2-Butanone
 Concen: 2.192 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

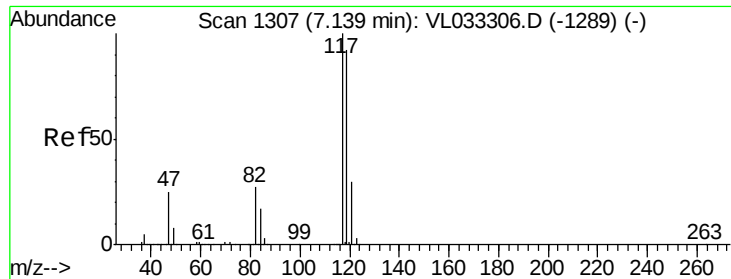
Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.2	25.8



Abundance Ion 43.10 (42.80 to 43.80): VL033300.D (-588) (-)

Ion 72.10 (71.80 to 72.80): VL033300.D (-588) (-)





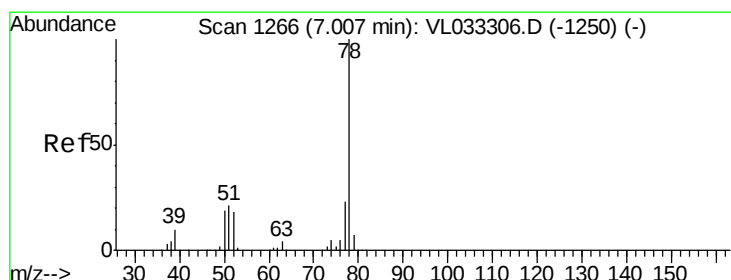
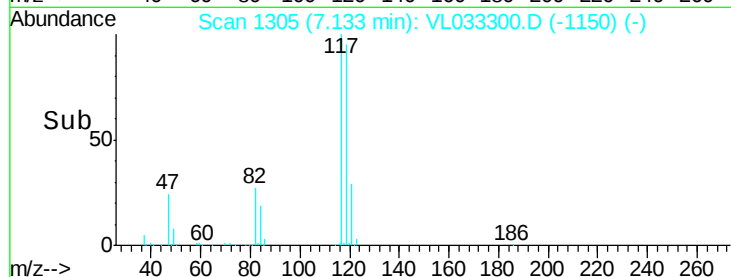
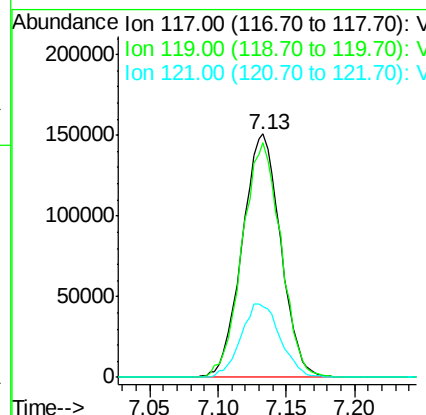
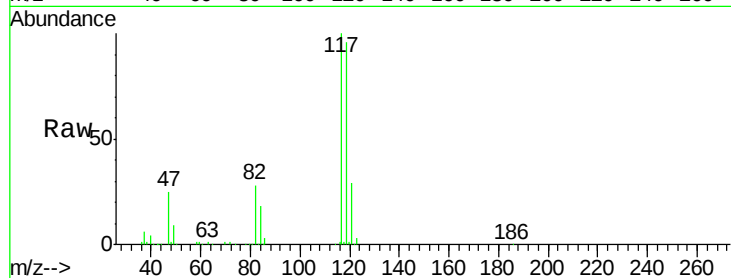
#35
Carbon Tetrachloride
Concen: 2.122 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	295371		
119	96.5	75.9	113.9	
121	29.5	25.2	37.8	

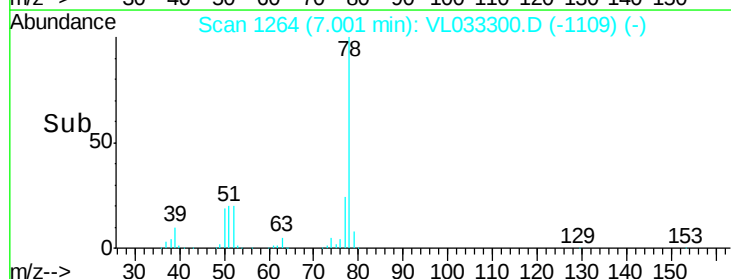
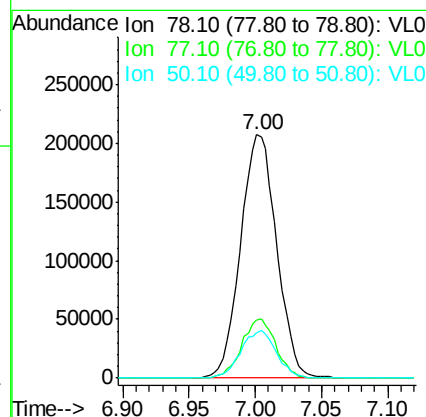
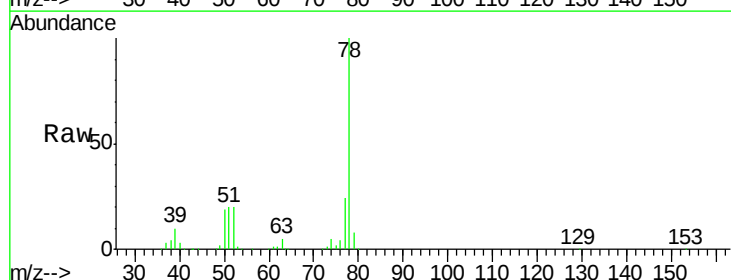
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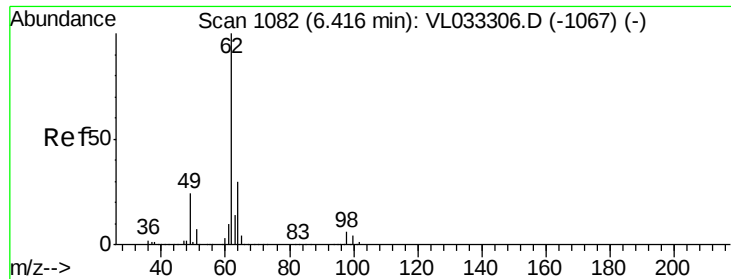
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#36
Benzene
Concen: 2.231 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	391925		
77	23.6	18.6	28.0	
50	18.7	15.2	22.8	





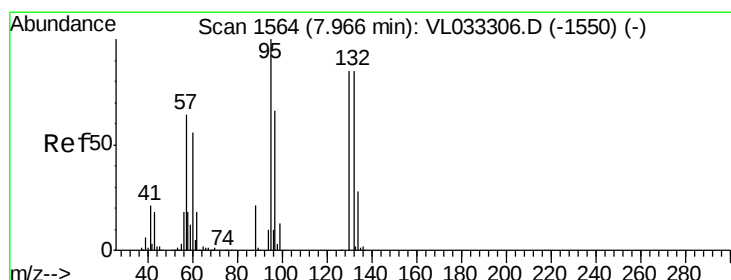
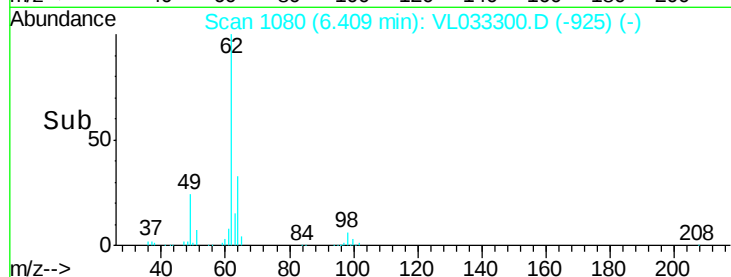
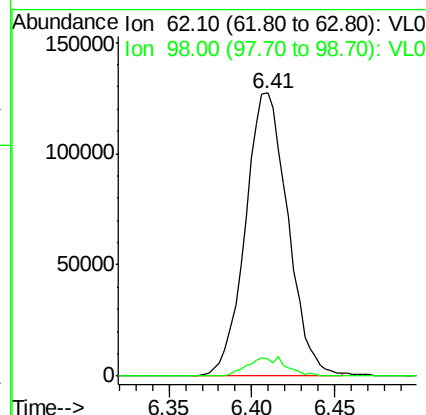
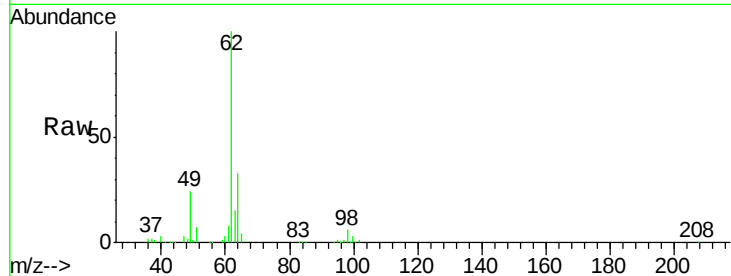
#37
 1,2-Dichloroethane
 Concen: 2.152 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	226707		
98	6.0	4.4	6.6	

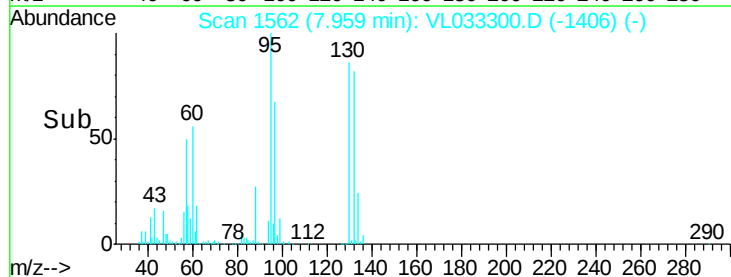
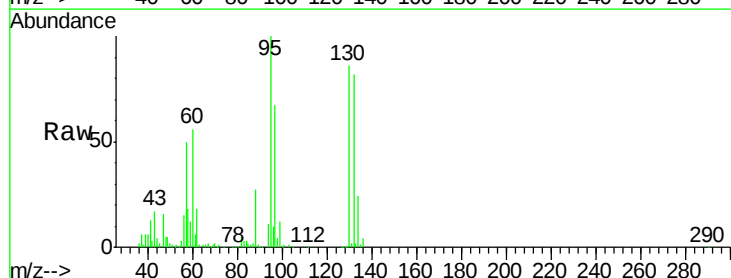
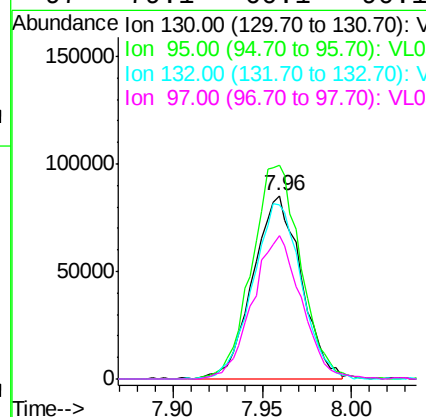
Manual Integrations
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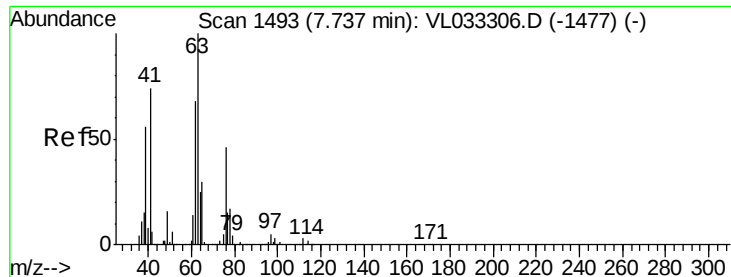
MMDadoda
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#38
 Trichloroethene
 Concen: 2.328 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. 0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	159436		
95	118.2	95.2	142.8	
132	96.2	72.5	108.7	
97	79.1	60.1	90.1	





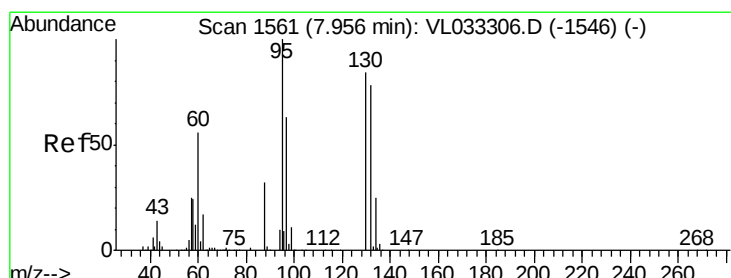
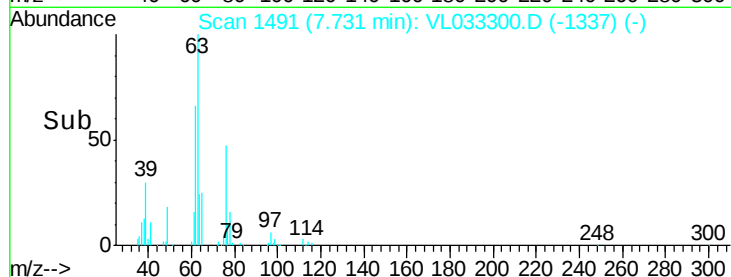
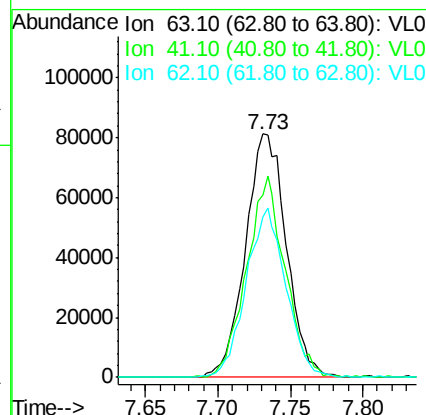
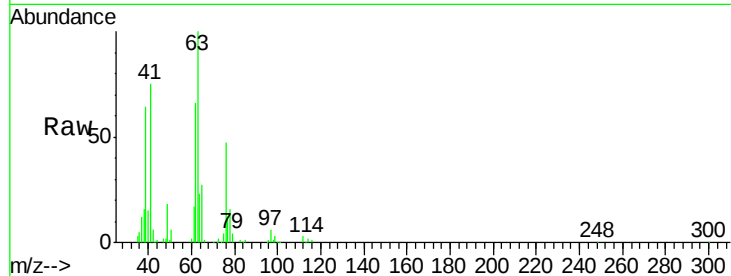
#39
 1,2-Dichloropropane
 Concen: 2.412 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.01 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
63	100		
41	75.0	59.0	88.4
62	66.1	53.0	79.4

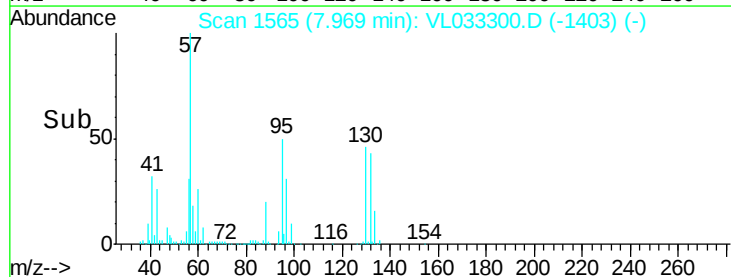
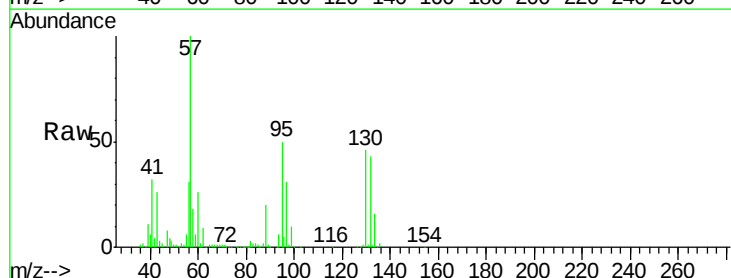
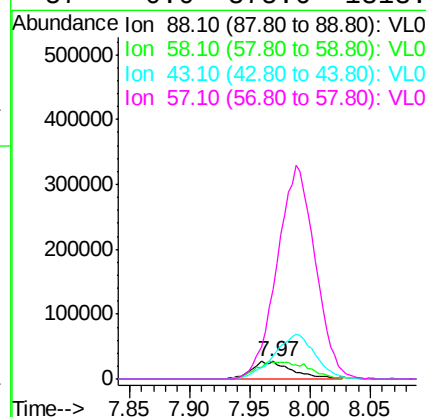
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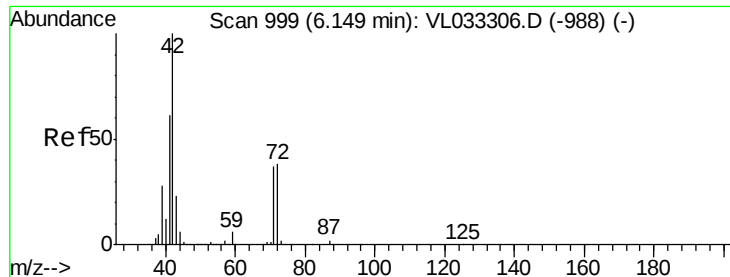
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#40
 1,4-Dioxane
 Concen: 2.511 ppbv m
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.02 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	97.7	146.5#
43	0.0	199.4	299.2#
57	0.0	875.6	1313.4#





#41

Tetrahydrofuran

Concen: 2.165 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.01 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

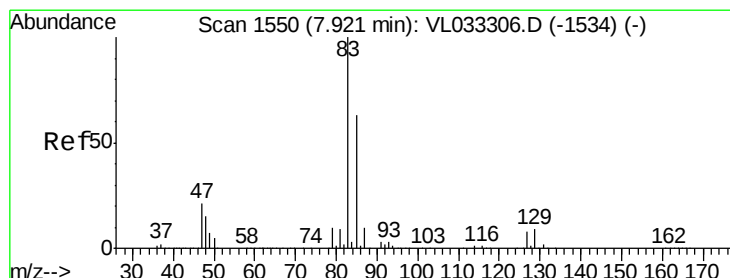
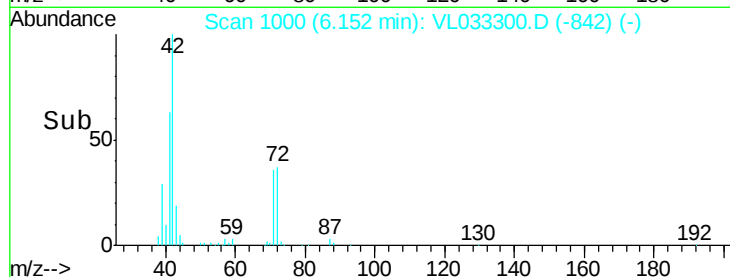
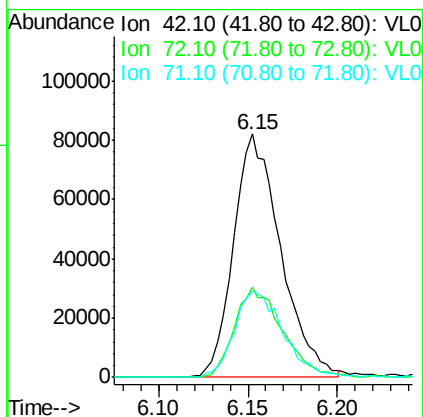
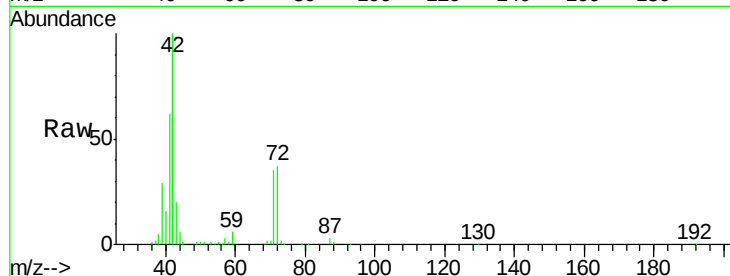
ClientSampleId :

VSTDIC002

Tgt Ion:	42	Resp:	151396
Ion	Ratio	Lower	Upper
42	100		
72	38.1	30.8	46.2
71	37.0	30.0	45.0

Manual Integrations
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#42

Bromodichloromethane

Concen: 2.408 ppbv

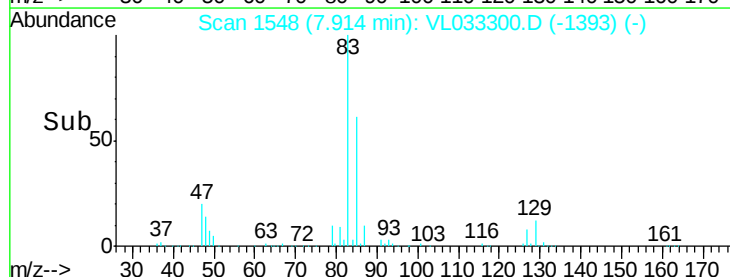
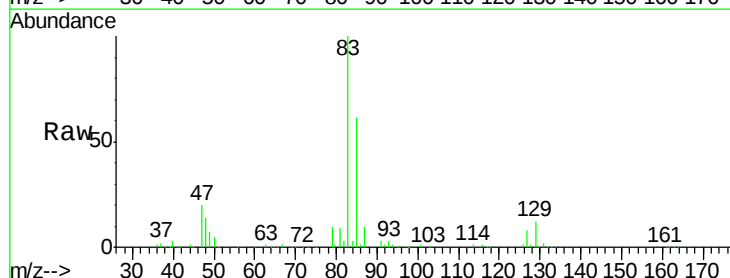
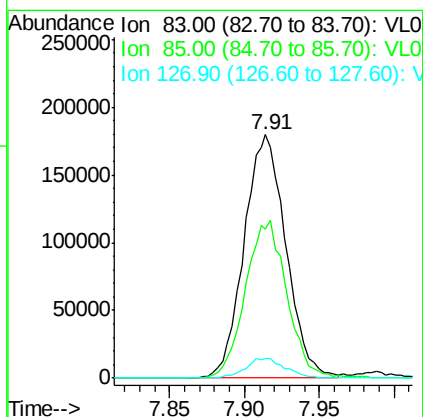
RT: 7.91 min Scan# 1548

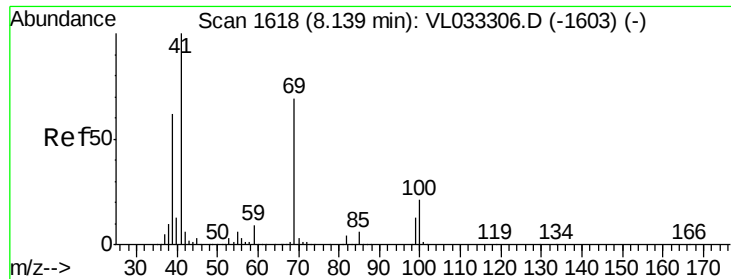
Delta R.T. -0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Tgt Ion:	83	Resp:	349311
Ion	Ratio	Lower	Upper
83	100		
85	61.2	51.0	76.4
127	7.9	6.6	10.0





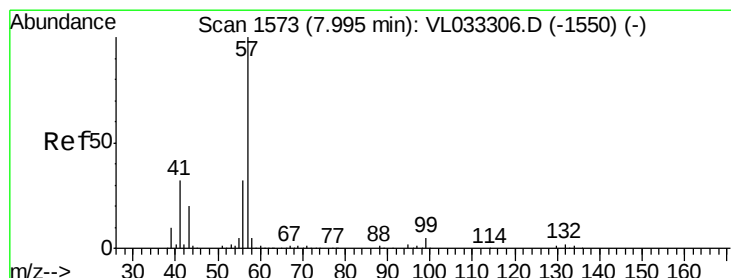
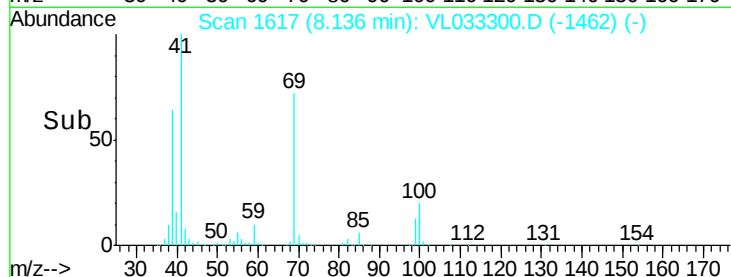
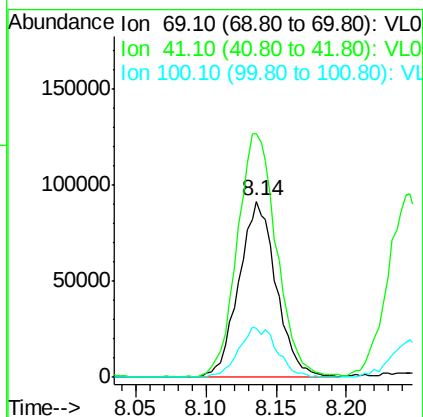
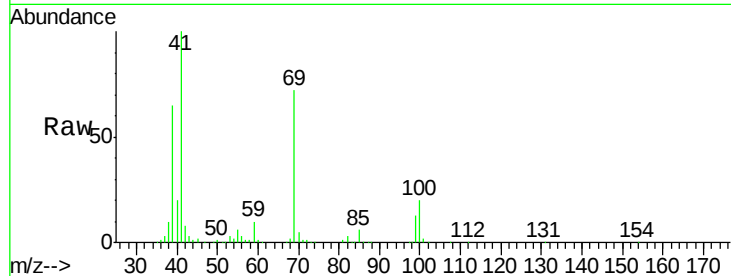
#43
Methyl Methacrylate
Concen: 2.482 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
69	100		
41	145.8	117.0	175.4
100	29.4	24.3	36.5

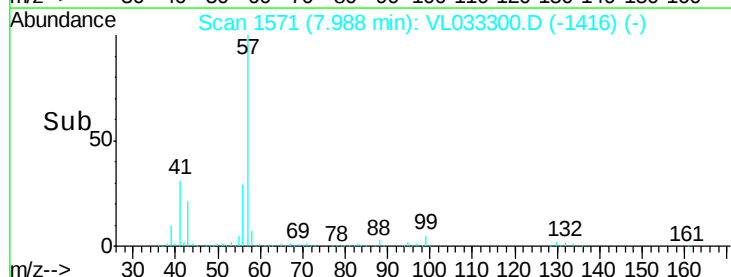
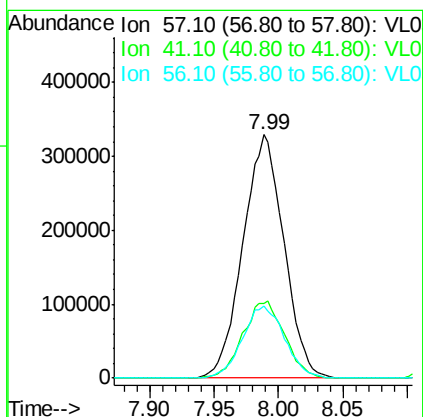
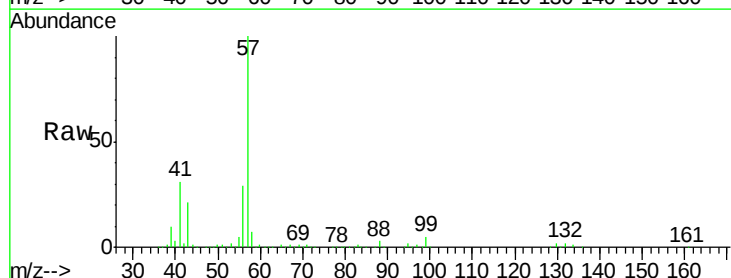
Manual Integrations
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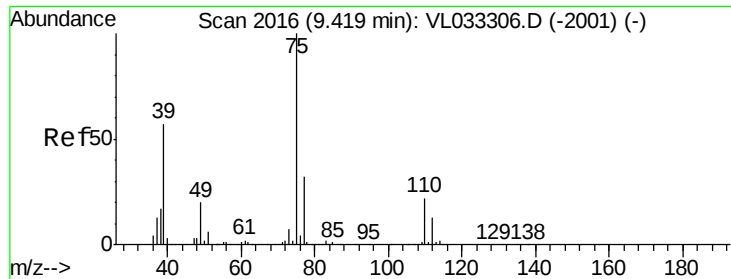
MMDadoda
3/15/2019 10:41:40 PM



#44
2,2,4-Trimethylpentane
Concen: 2.438 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.3	25.9	38.9
56	30.5	24.6	36.8





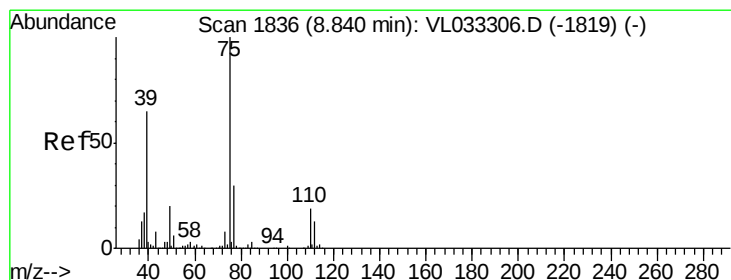
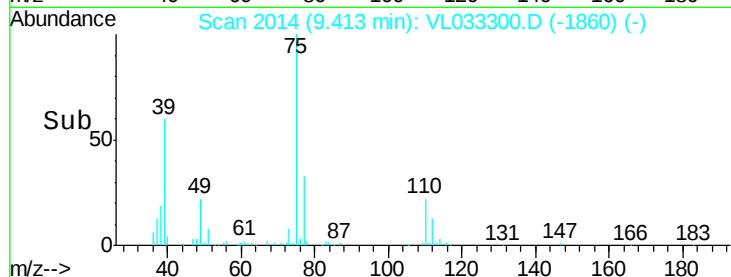
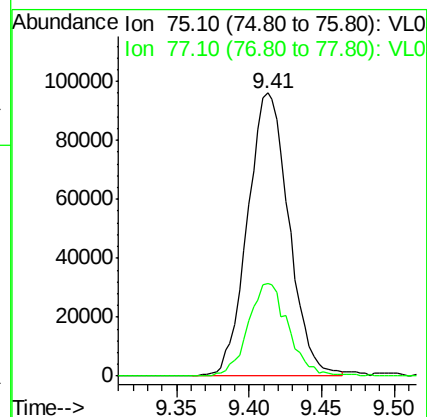
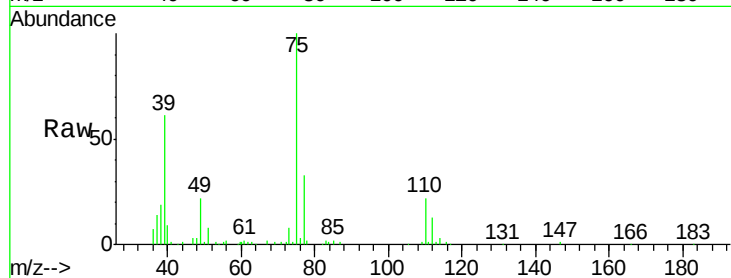
#45
t-1,3-Dichloropropene
Concen: 2.266 ppbv
RT: 9.41 min Scan# 2014
Delta R.T. -0.01 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tgt Ion: 75 Resp: 190707
Ion Ratio Lower Upper
75 100
77 32.9 25.3 37.9

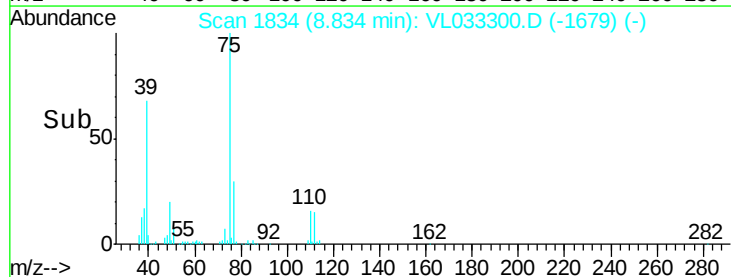
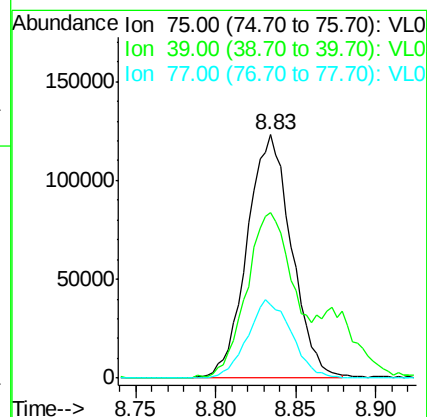
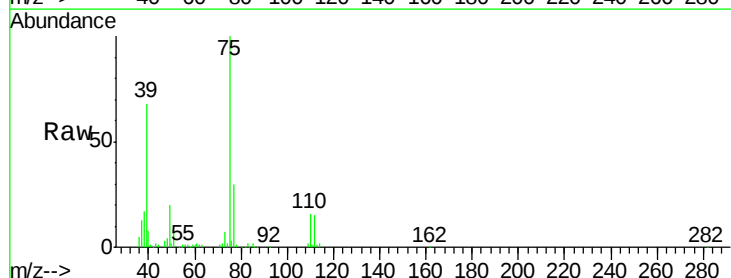
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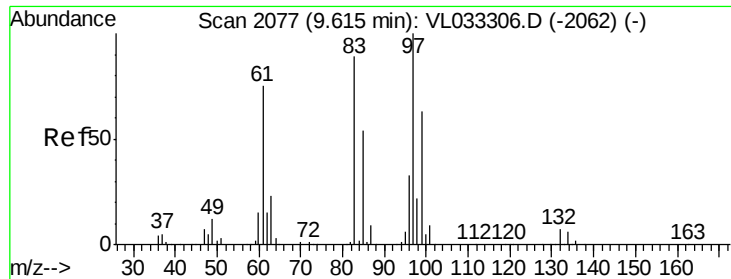
MMDadoda
3/15/2019 10:41:40 PM



#46
cis-1,3-Dichloropropene
Concen: 2.367 ppbv
RT: 8.83 min Scan# 1834
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion: 75 Resp: 233548
Ion Ratio Lower Upper
75 100
39 67.8 53.4 80.2
77 30.4 23.7 35.5





#47

1,1,2-Trichloroethane

Concen: 2.405 ppbv

RT: 9.61 min Scan# 2075

Delta R.T. -0.01 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 169790

Ion Ratio Lower Upper

97 100

83 84.8 72.7 109.1

85 55.9 45.6 68.4

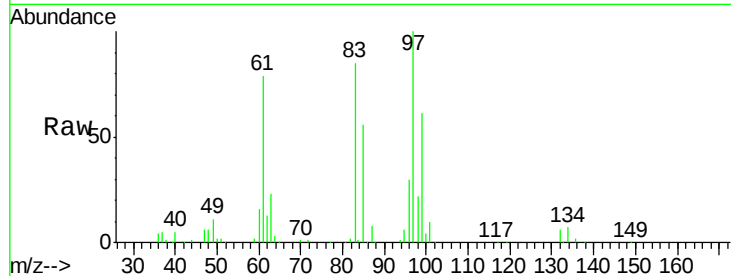
99 60.6 48.5 72.7

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3/15/2019 10:41:40 PM

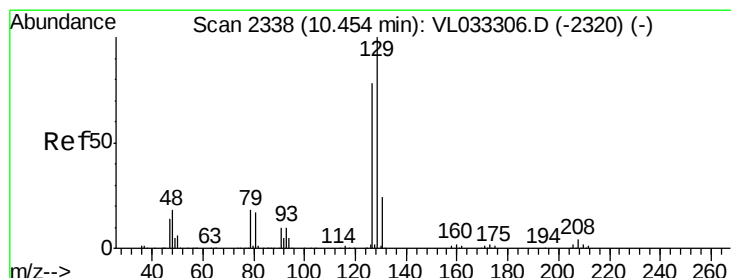
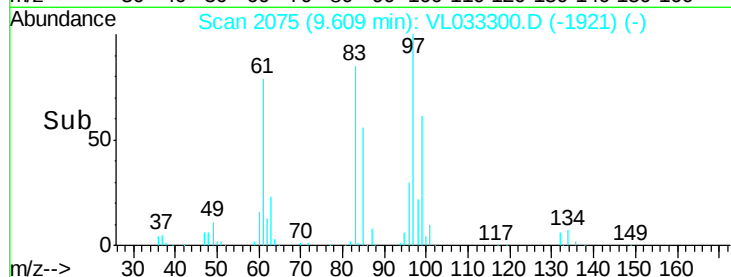
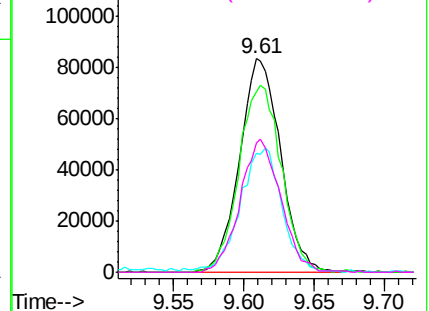


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 2.320 ppbv

RT: 10.44 min Scan# 2335

Delta R.T. -0.01 min

Lab File: VL033300.D

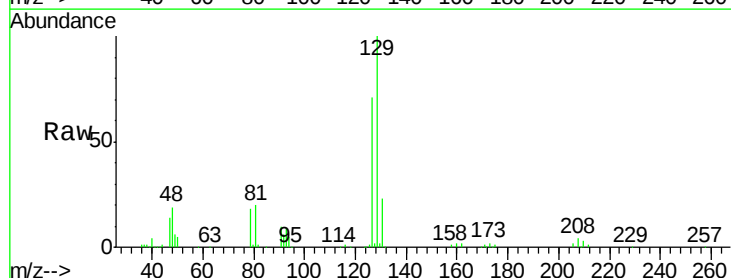
Acq: 13 Mar 2019 17:12

Tgt Ion: 129 Resp: 268499

Ion Ratio Lower Upper

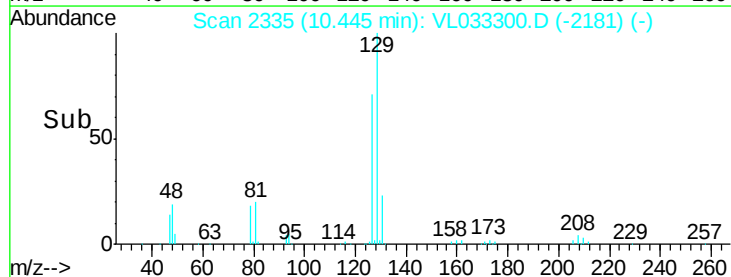
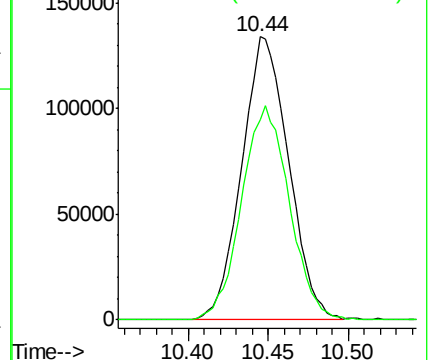
129 100

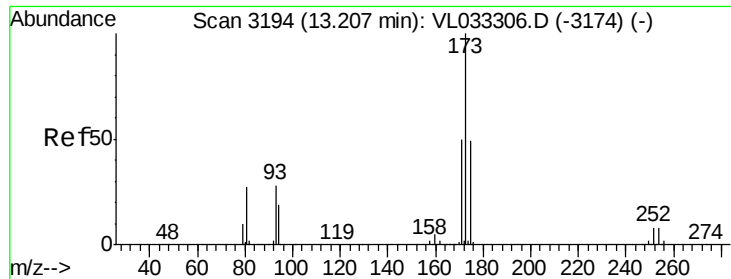
127 77.2 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





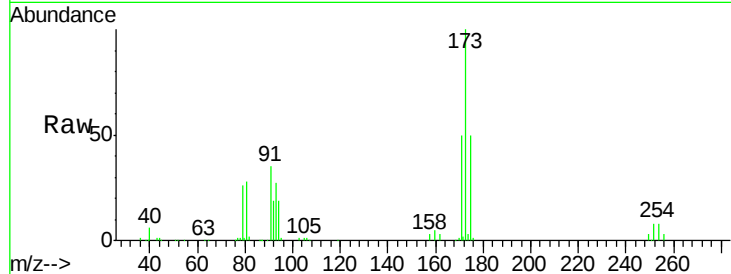
#49
Bromoform
Concen: 2.286 ppbv
RT: 13.20 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

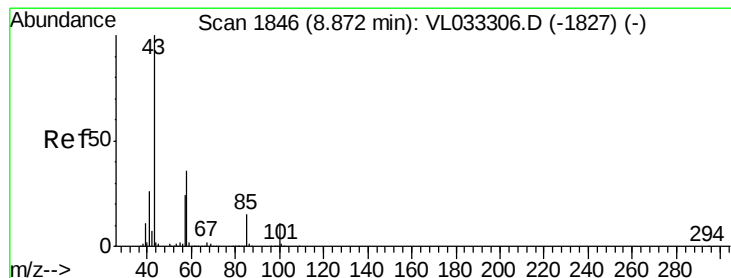
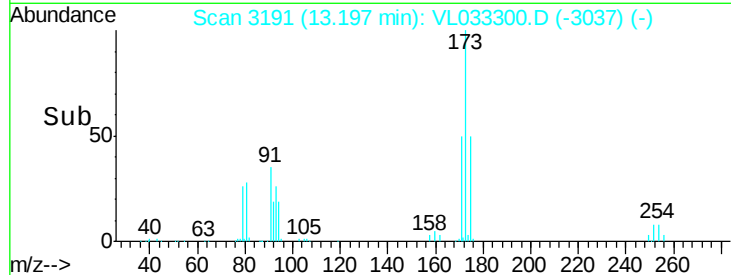
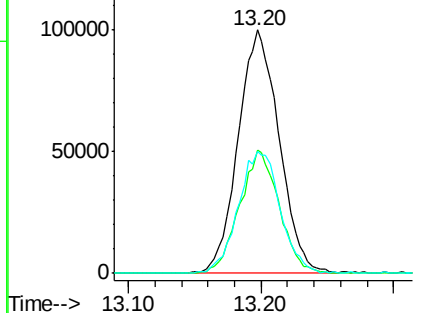
Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.2	38.6	58.0
171	51.1	42.0	63.0

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3/15/2019 10:41:40 PM

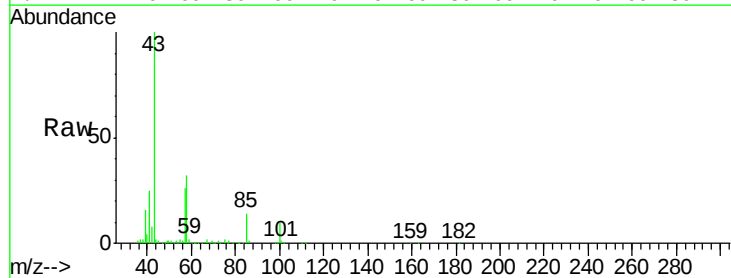


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

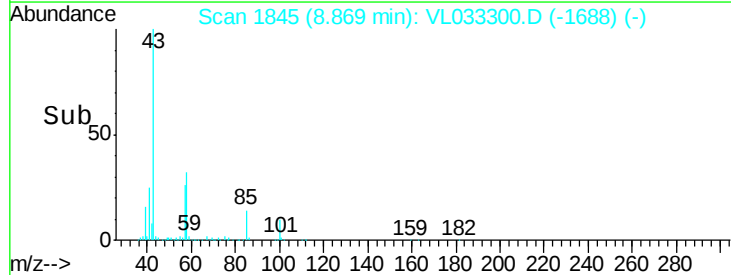
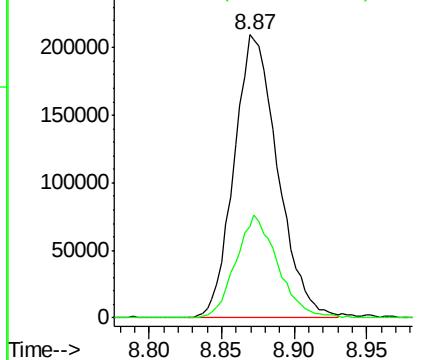


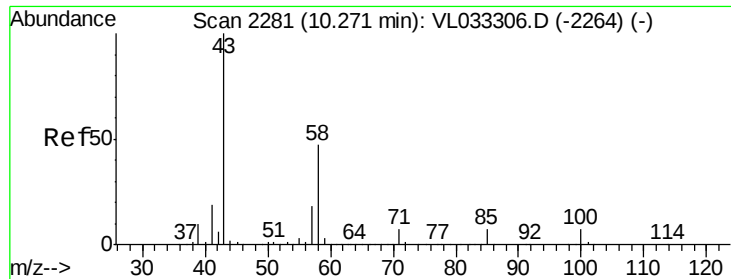
#50
4-Methyl-2-Pentanone
Concen: 2.428 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.2	42.2



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





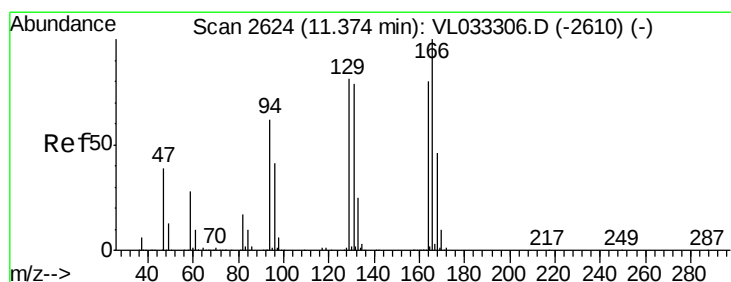
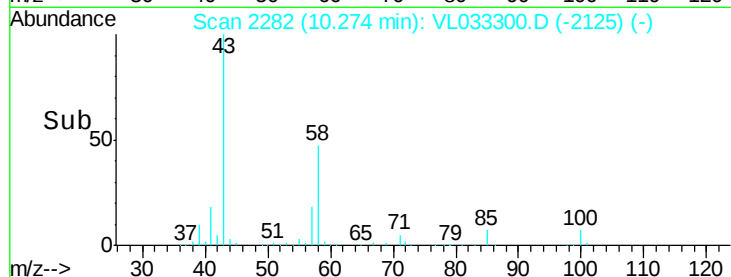
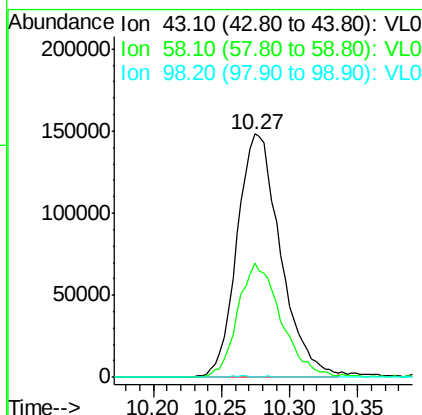
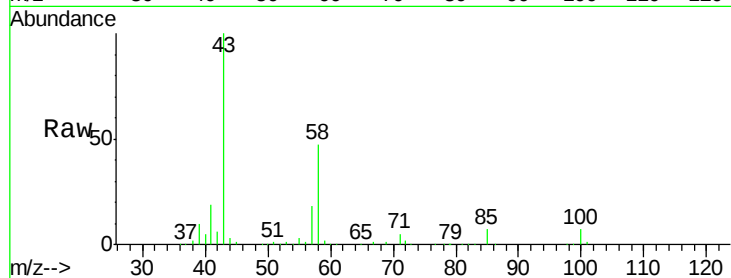
#51
2-Hexanone
Concen: 2.390 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.4	38.4	57.6
98	0.2	0.2	0.2

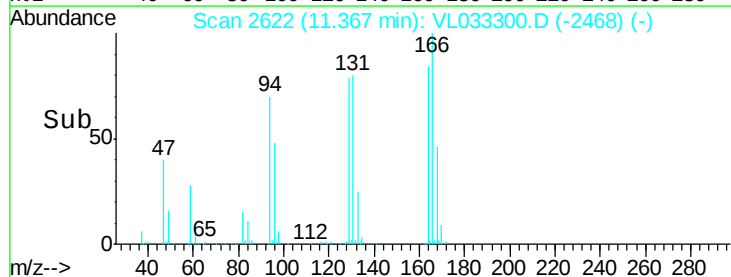
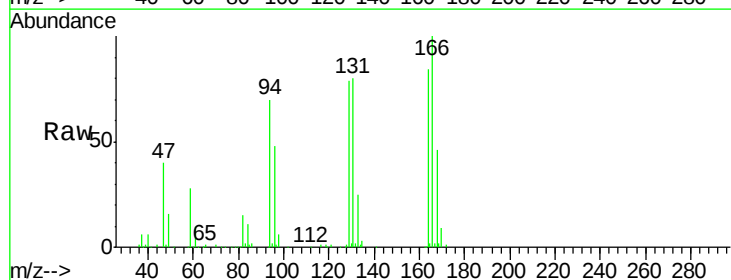
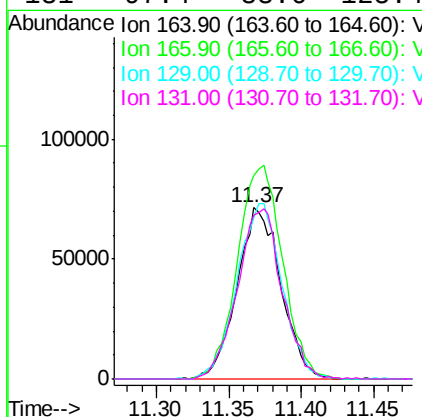
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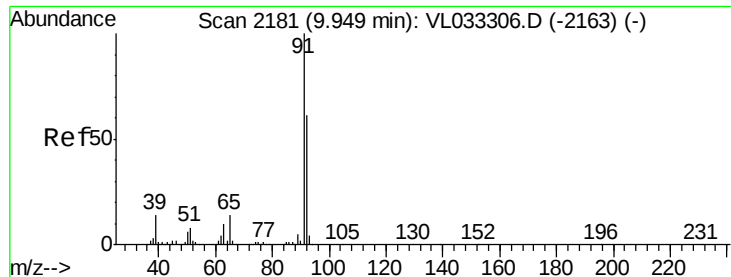
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3/15/2019 10:41:40 PM



#52
Tetrachloroethene
Concen: 2.341 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.5	103.2	154.8
129	93.6	85.8	128.8
131	97.4	83.6	125.4





#53

Toluene

Concen: 2.383 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 482423

Ion Ratio Lower Upper

91 100

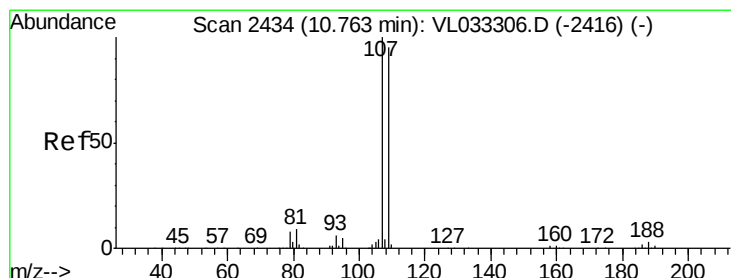
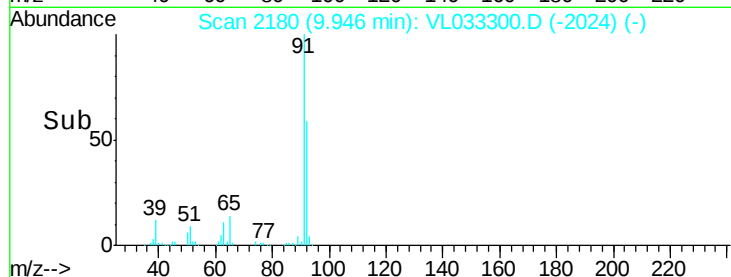
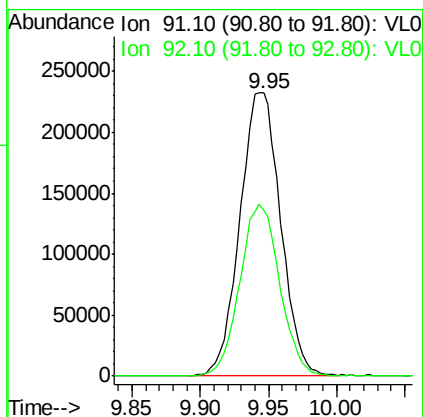
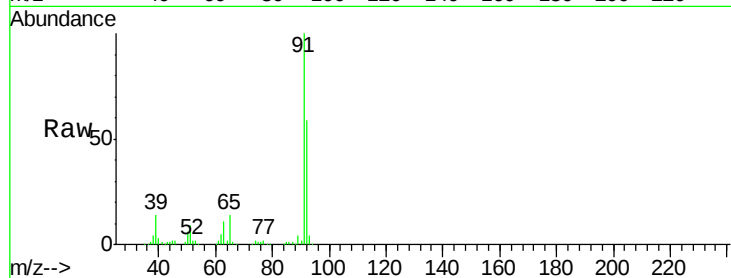
92 59.5 47.4 71.2

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3/15/2019 10:41:40 PM



#54

1,2-Dibromoethane

Concen: 2.406 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL033300.D

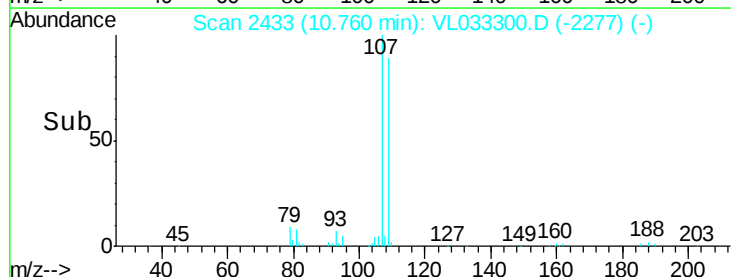
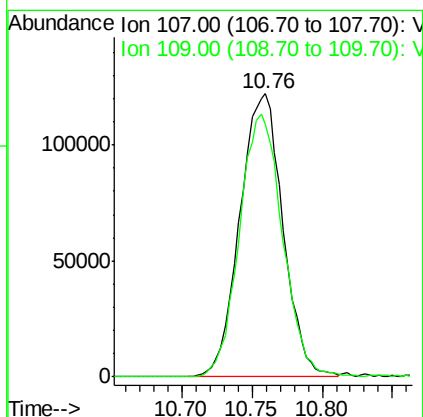
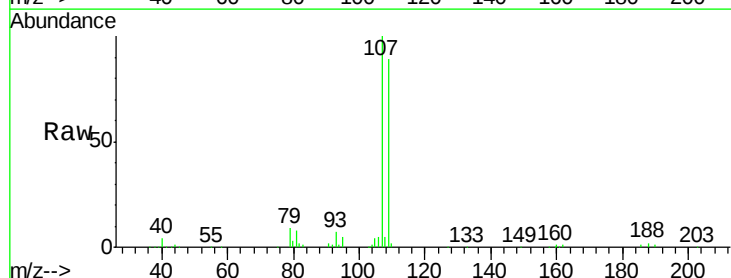
Acq: 13 Mar 2019 17:12

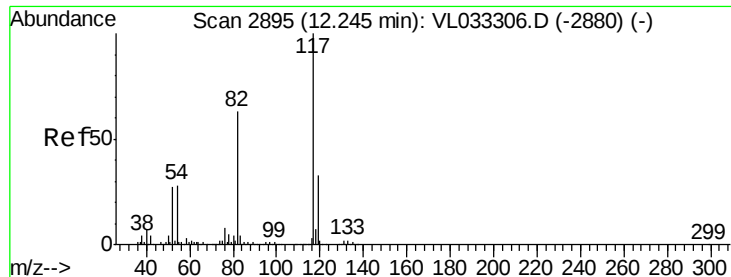
Tgt Ion: 107 Resp: 261000

Ion Ratio Lower Upper

107 100

109 88.9 74.3 111.5





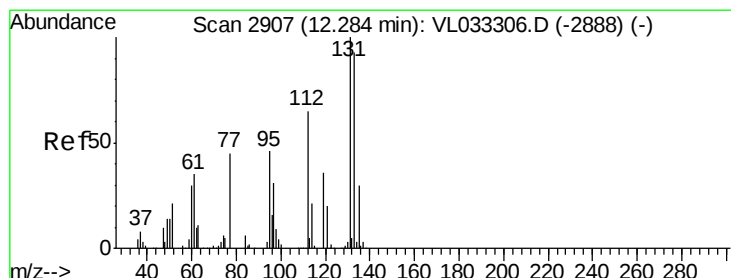
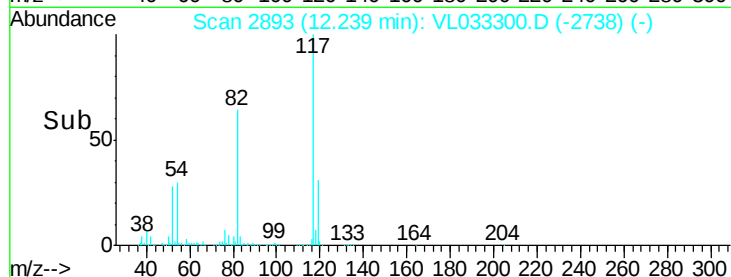
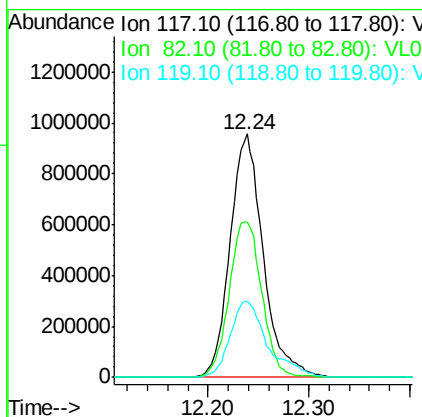
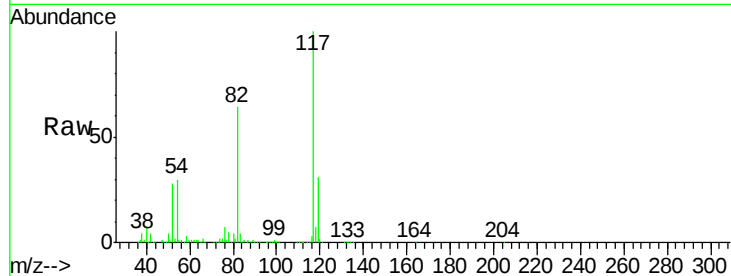
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:117 Resp: 2181697
Ion Ratio Lower Upper
117 100
82 63.3 51.3 76.9
119 35.6 27.0 40.4

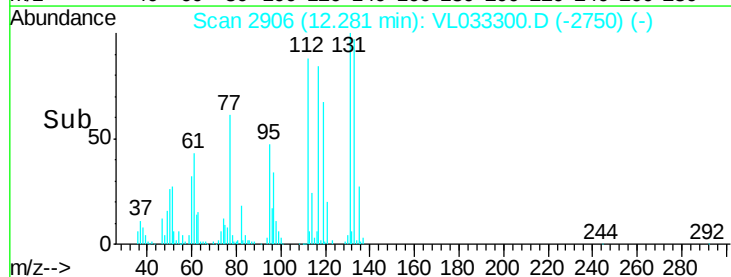
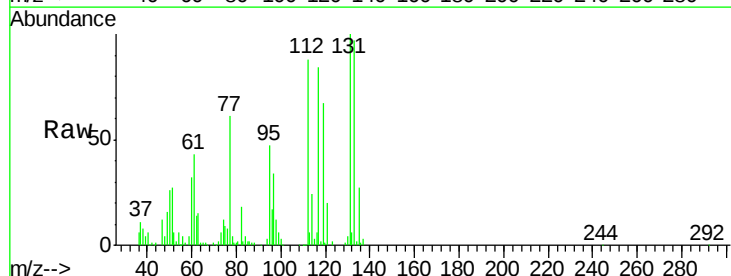
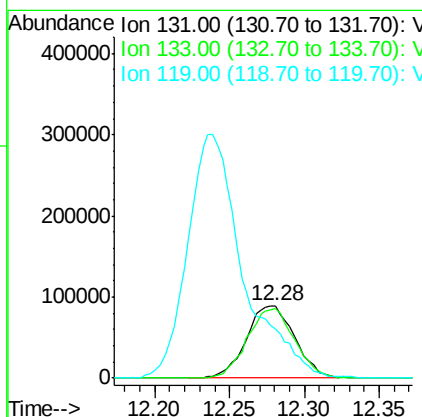
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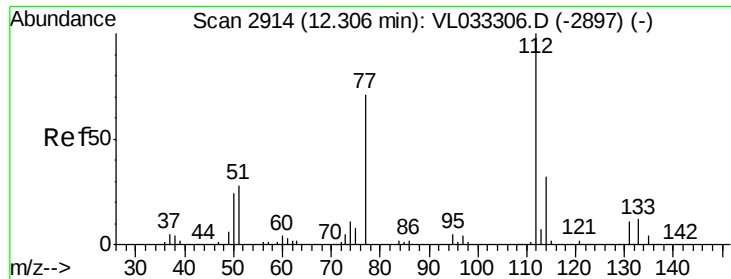
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3/15/2019 10:41:40 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.161 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion:131 Resp: 200453
Ion Ratio Lower Upper
131 100
133 95.1 75.3 112.9
119 388.6 45.0 67.4#





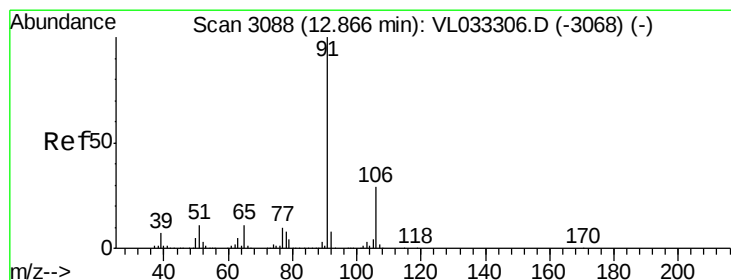
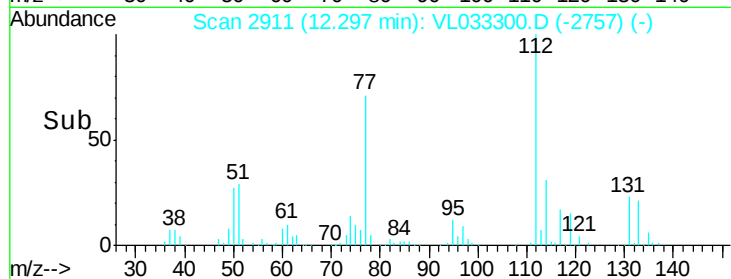
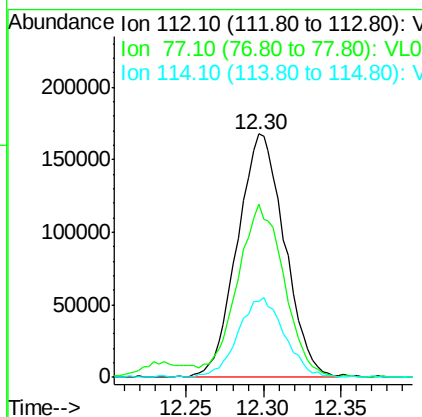
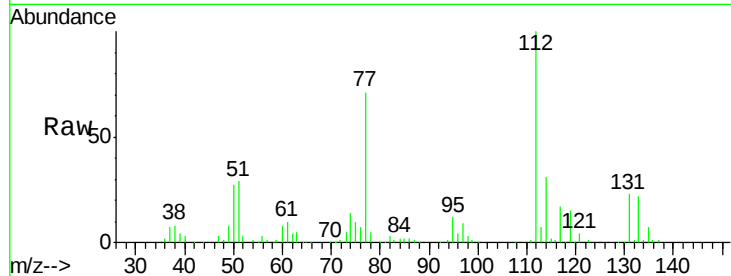
#57
Chlorobenzene
Concen: 2.168 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
112	100		
77	71.2	54.7	82.1
114	31.3	29.6	36.2

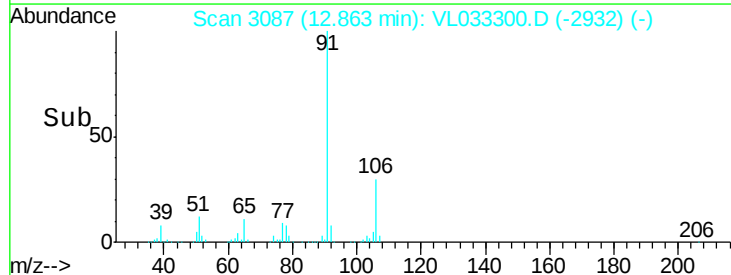
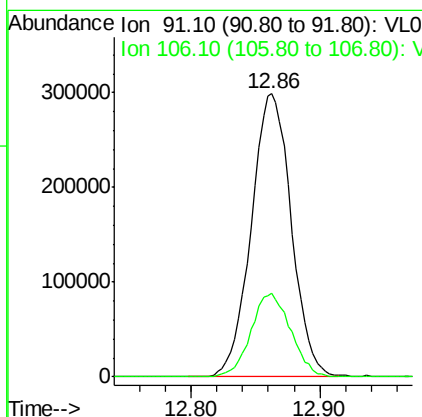
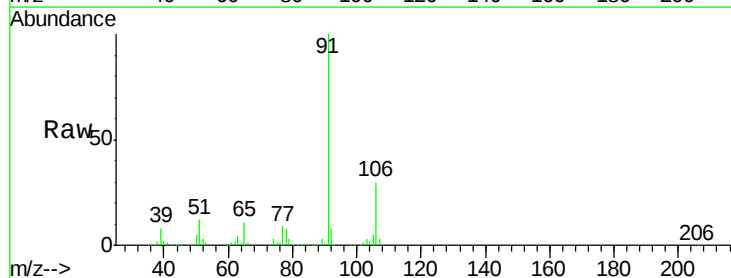
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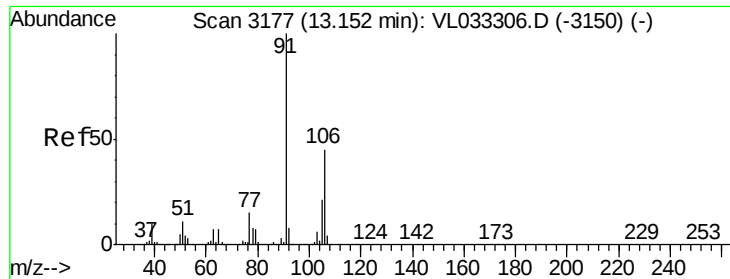
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3/15/2019 10:41:40 PM



#58
Ethyl Benzene
Concen: 2.153 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.8	35.6





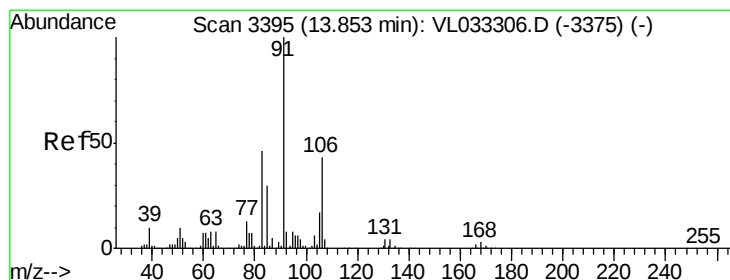
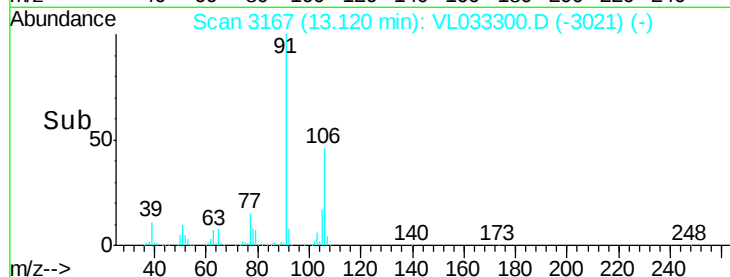
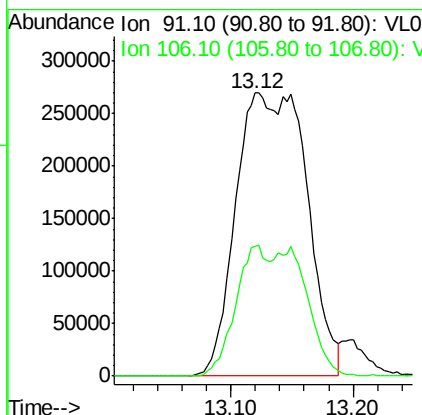
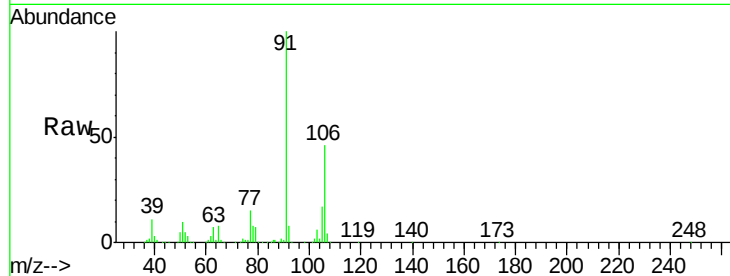
#59
m/p-Xylene
Concen: 4.316 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 1082151
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

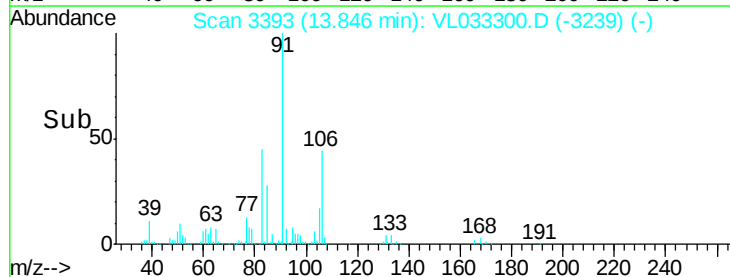
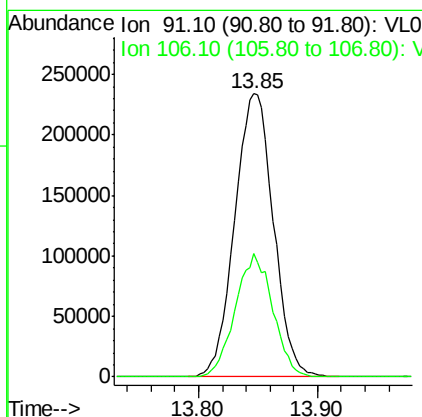
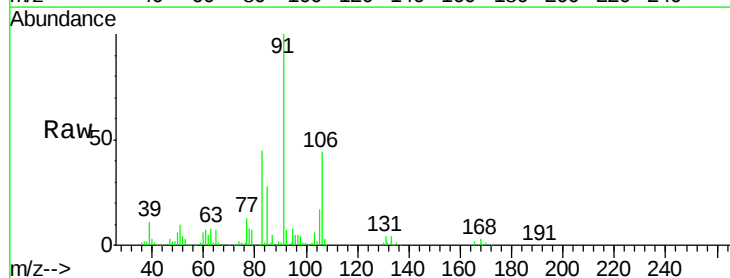
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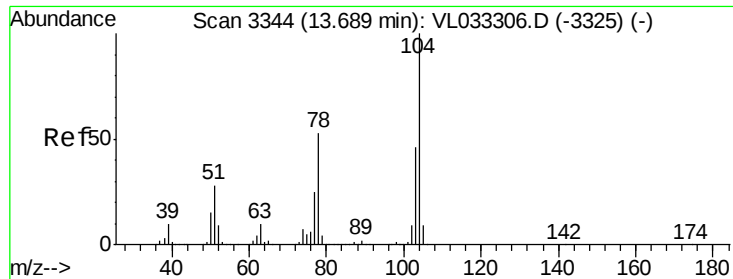
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#60
o-Xylene
Concen: 2.175 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion: 91 Resp: 524310
Ion Ratio Lower Upper
91 100
106 42.3 21.4 64.3





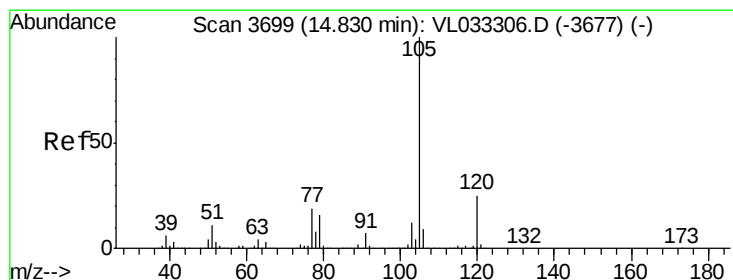
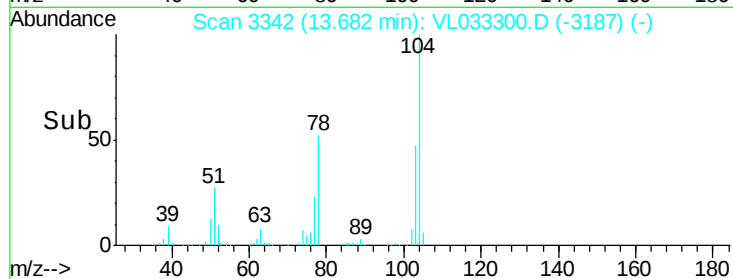
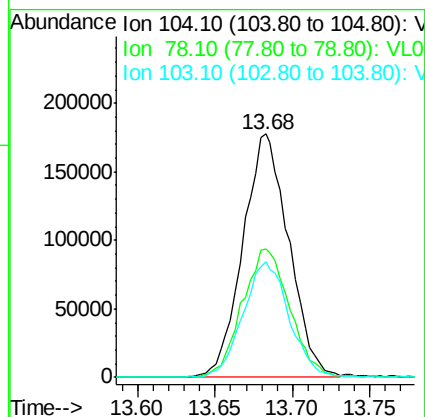
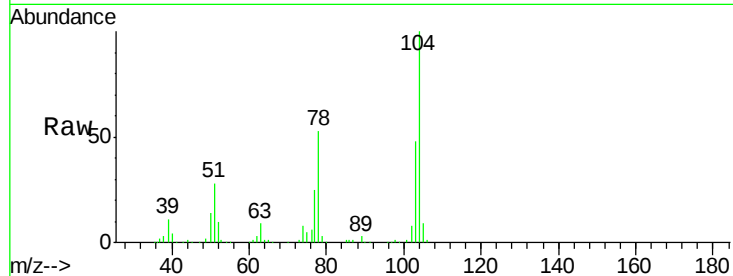
#61
Styrene
Concen: 2.134 ppbv
RT: 13.68 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	366372		
78	55.1	43.3	64.9	
103	48.1	38.2	57.2	

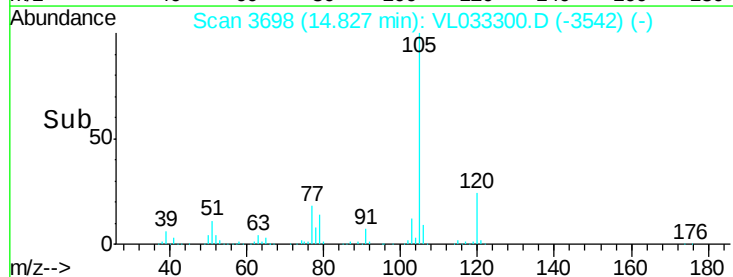
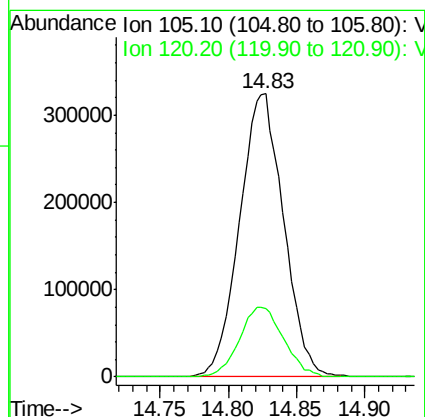
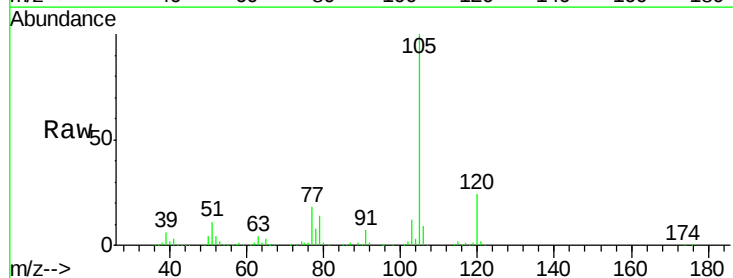
Manual Integrations
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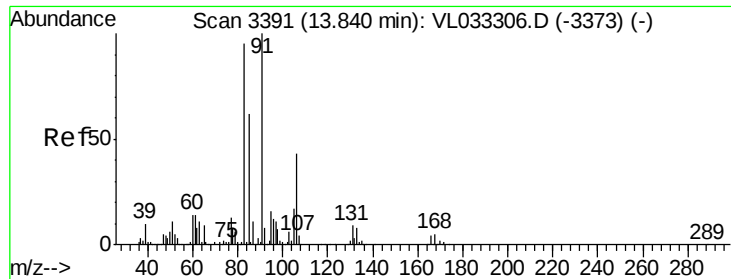
MMDadoda
3/15/2019 10:41:40 PM



#62
Isopropylbenzene
Concen: 2.151 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	722372		
120	25.0	19.9	29.9	





#63

1,1,2,2-Tetrachloroethane

Concen: 2.176 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

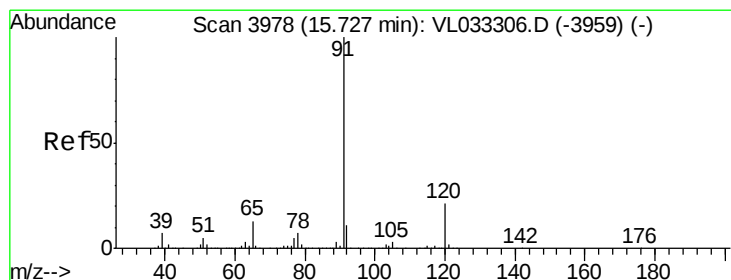
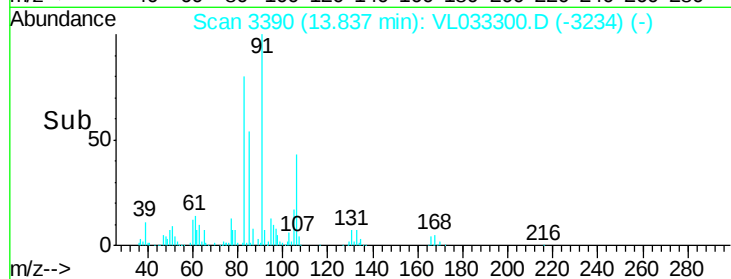
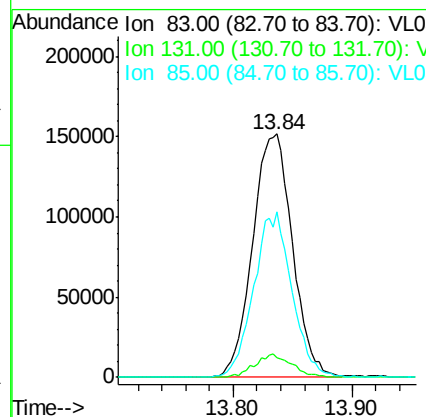
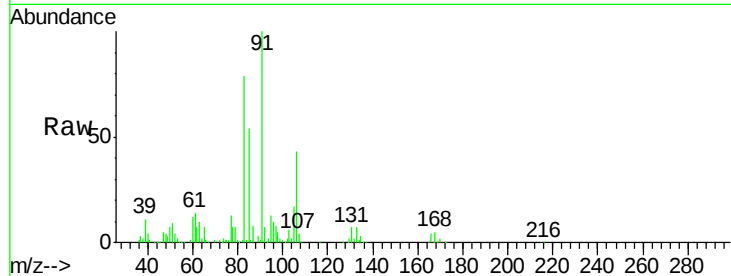
ClientSampleId :

VSTDIC002

Tgt Ion:	83	Resp:	351521
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.6	13.8
85	65.2	32.5	97.4

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3/15/2019 10:41:40 PM



#64

n-propylbenzene

Concen: 2.188 ppbv

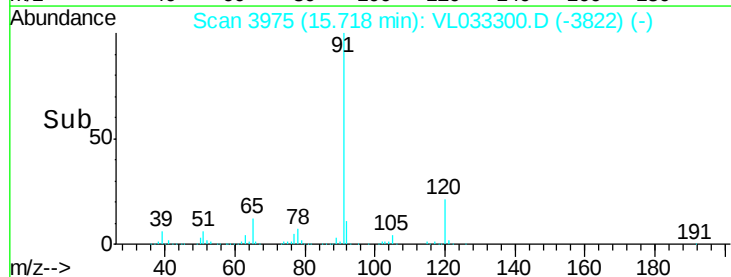
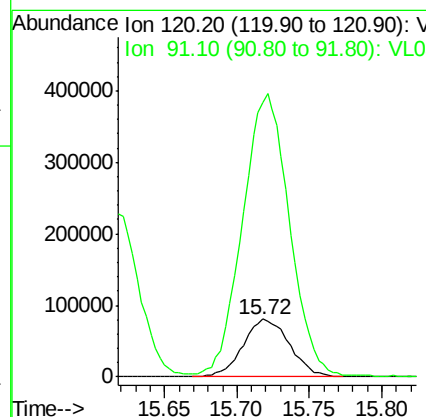
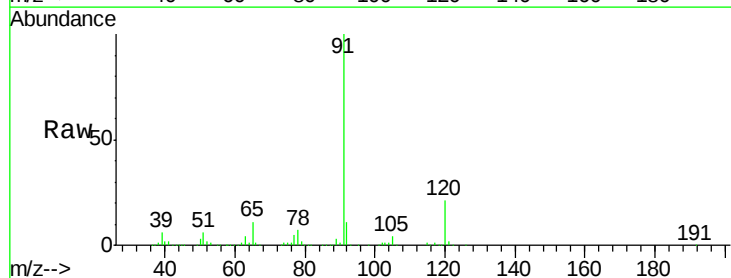
RT: 15.72 min Scan# 3975

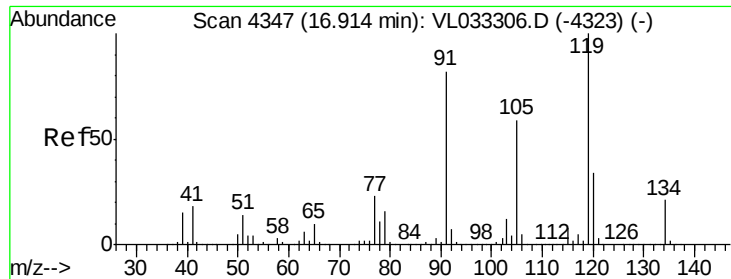
Delta R.T. -0.01 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Tgt Ion:	120	Resp:	180838
Ion Ratio	Lower	Upper	
120	100		
91	496.6	393.7	590.5





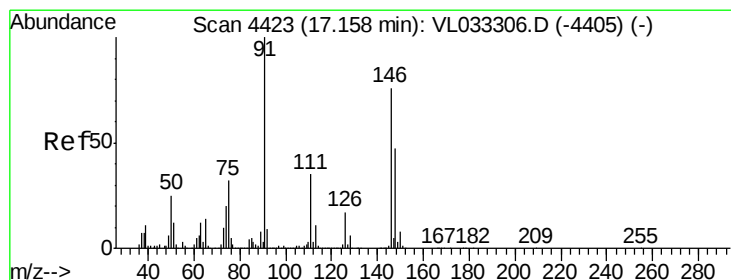
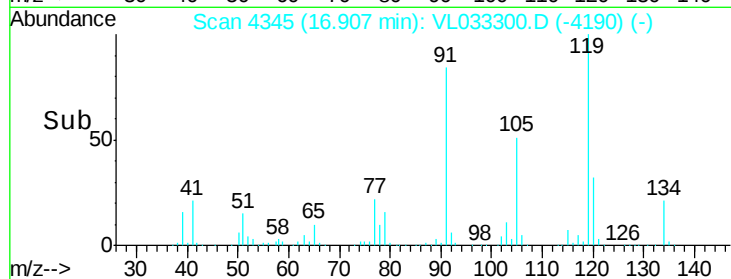
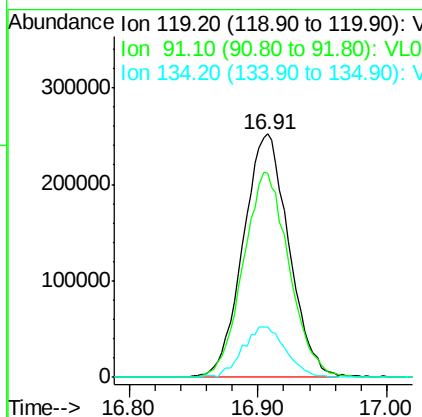
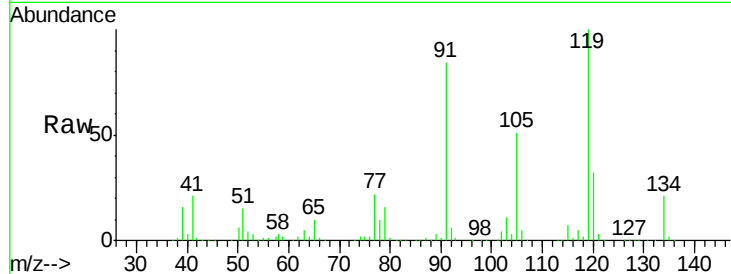
#65
tert-Butylbenzene
Concen: 2.192 ppbv
RT: 16.91 min Scan# 4345
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	621386		
91	84.9	66.4	99.6	
134	19.6	15.4	23.2	

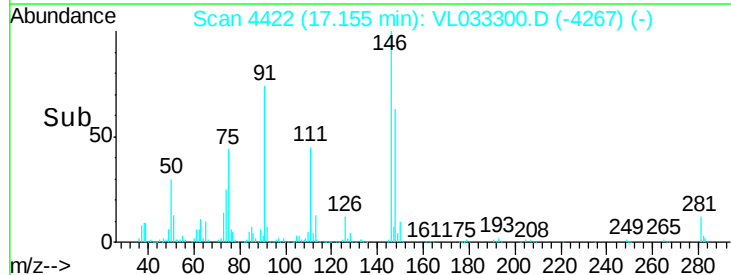
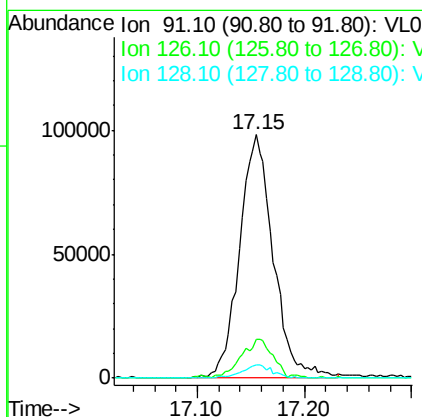
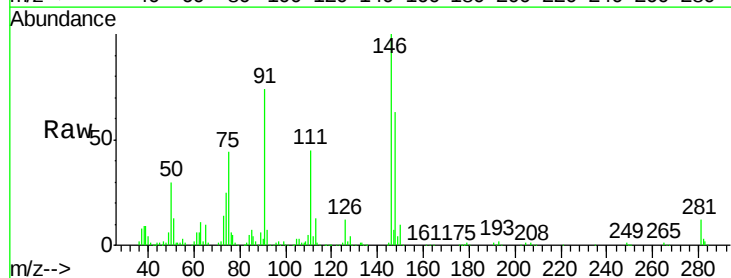
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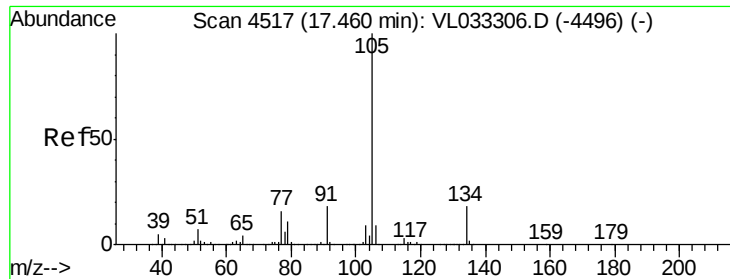
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3/15/2019 10:41:40 PM



#66
Benzyl Chloride
Concen: 1.965 ppbv m
RT: 17.15 min Scan# 4422
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	215769		
126	15.5	12.9	19.3	
128	5.0	4.2	6.2	





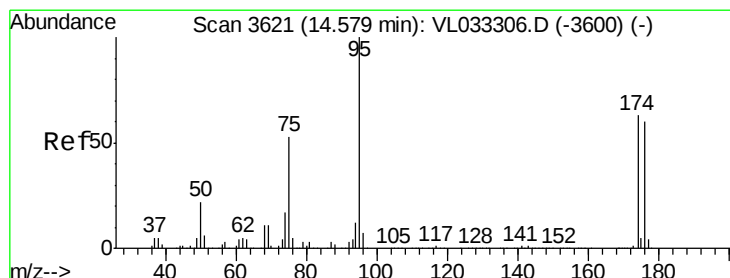
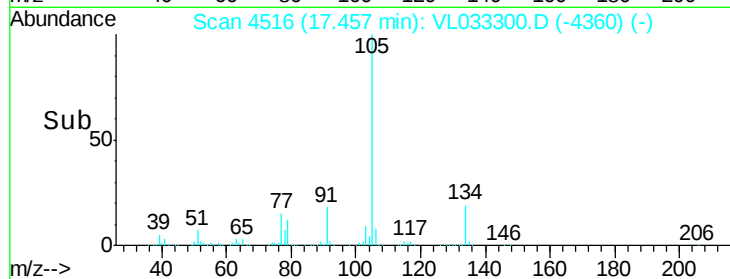
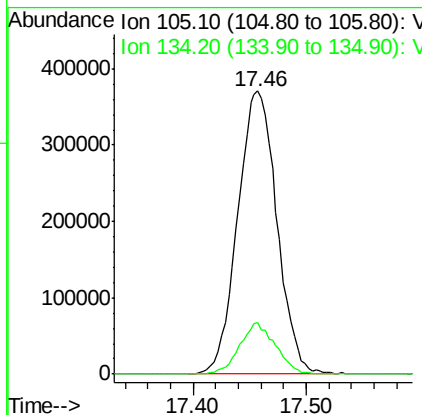
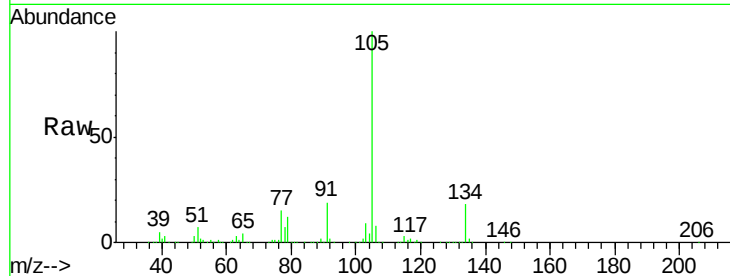
#67
 sec-Butylbenzene
 Concen: 2.202 ppbv
 RT: 17.46 min Scan# 4516
 Delta R.T. 0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 105 Resp: 888688
 Ion Ratio Lower Upper
 105 100
 134 16.9 14.2 21.2

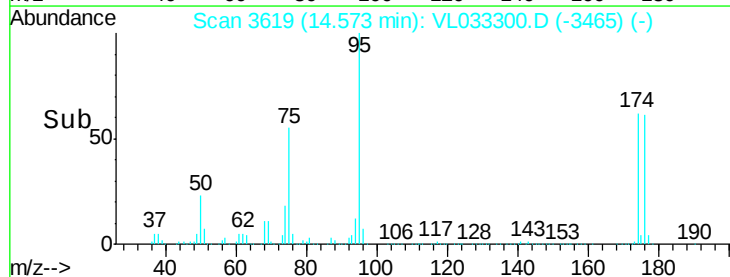
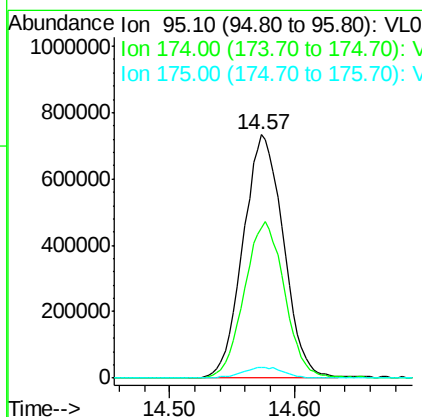
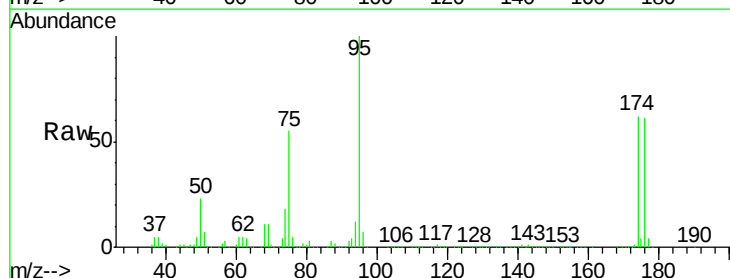
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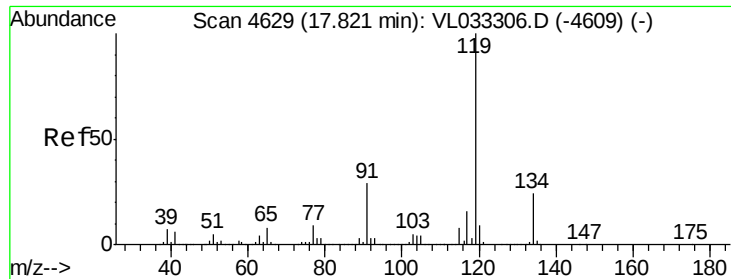
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 3/15/2019 10:41:40 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.742 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Tgt Ion: 95 Resp: 1641243
 Ion Ratio Lower Upper
 95 100
 174 64.2 51.9 77.9
 175 4.7 3.9 5.9





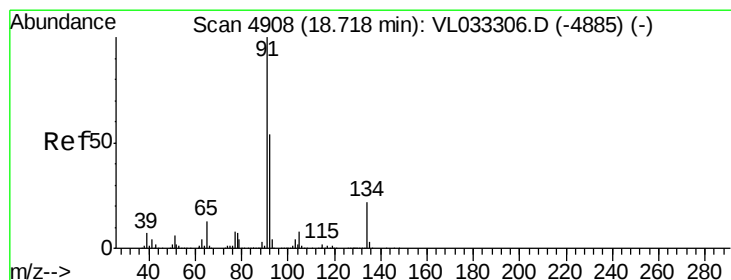
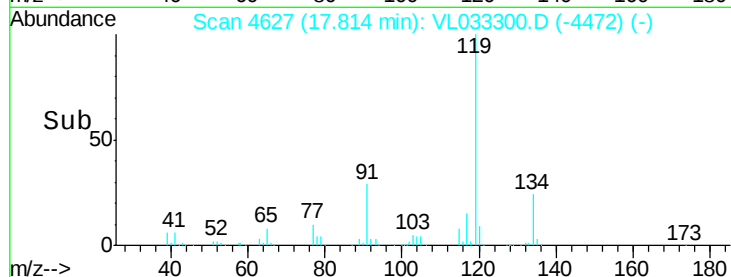
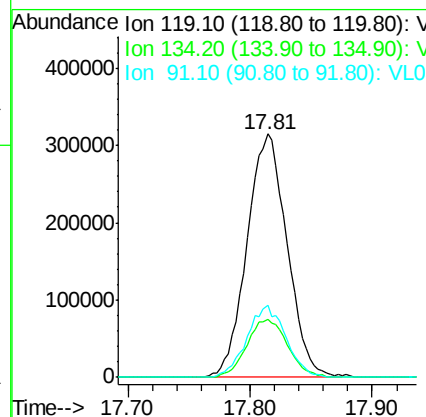
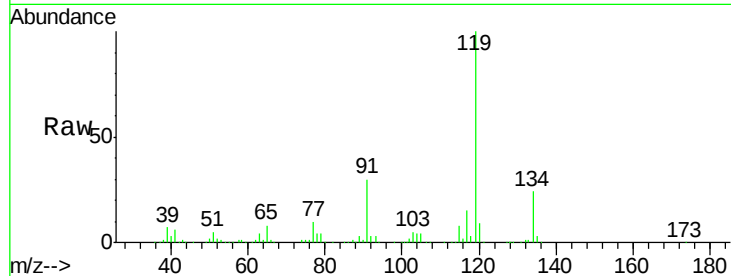
#69
p-Isopropyltoluene
Concen: 2.187 ppbv
RT: 17.81 min Scan# 4627
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	712788		
134	24.3	19.8	29.6	
91	29.0	23.8	35.8	

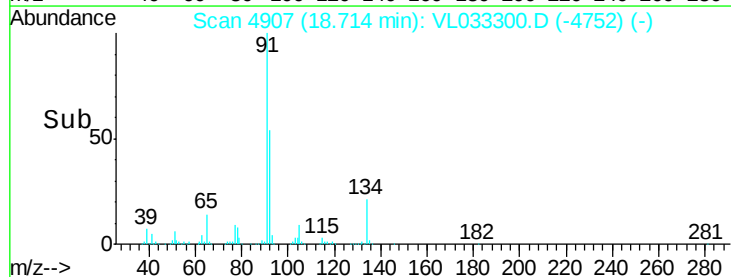
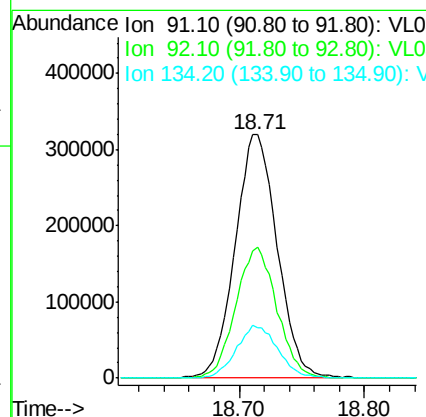
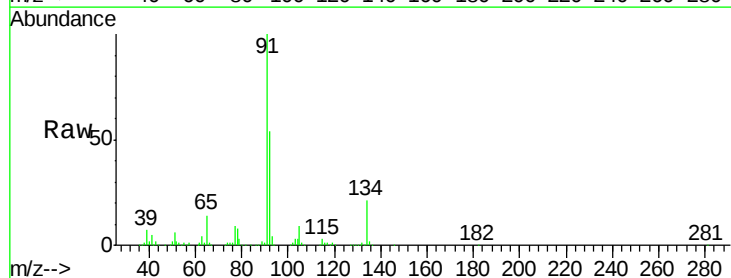
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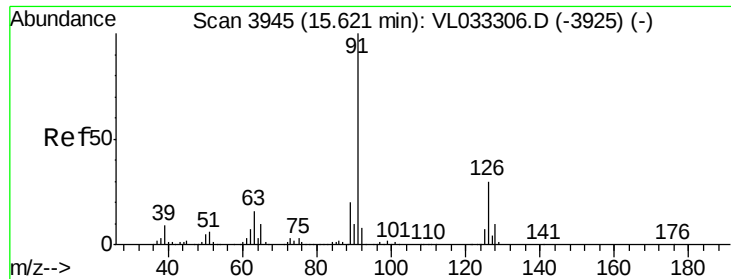
MMDadoda
3/15/2019 10:41:40 PM



#70
n-Butylbenzene
Concen: 2.109 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	738188		
92	53.1	42.6	63.8	
134	21.5	17.4	26.0	





#71

2-Chlorotoluene

Concen: 2.133 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 540052

Ion Ratio Lower Upper

91 100

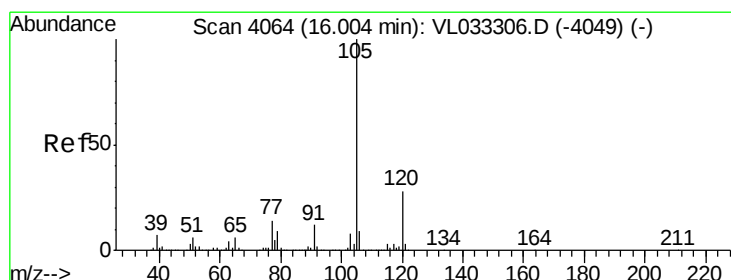
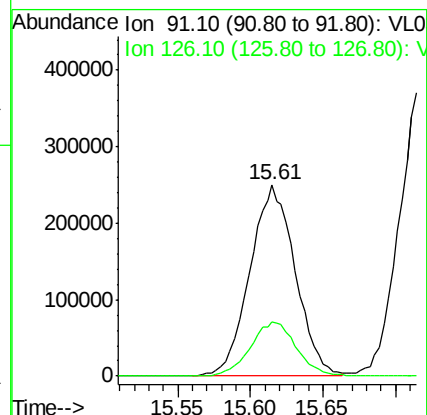
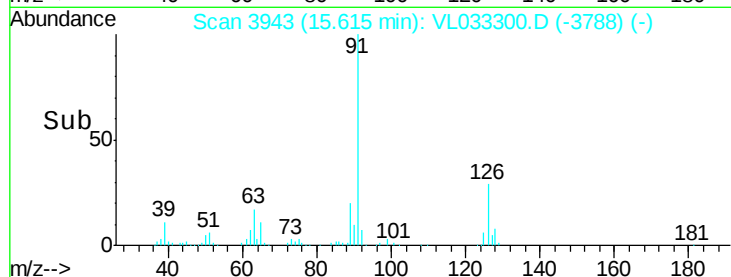
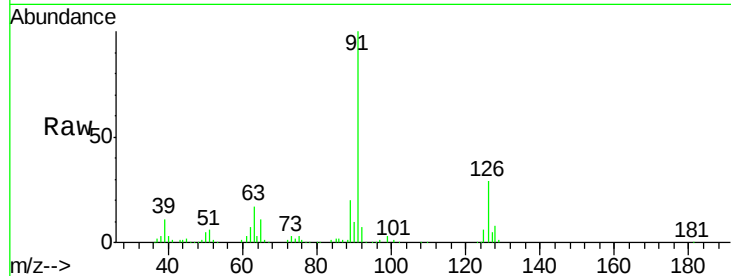
126 29.0 11.8 47.0

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3/15/2019 10:41:40 PM



#72

4-Ethyltoluene

Concen: 2.155 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Tgt Ion: 105 Resp: 561020

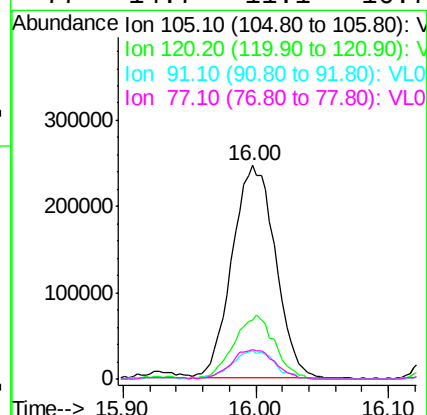
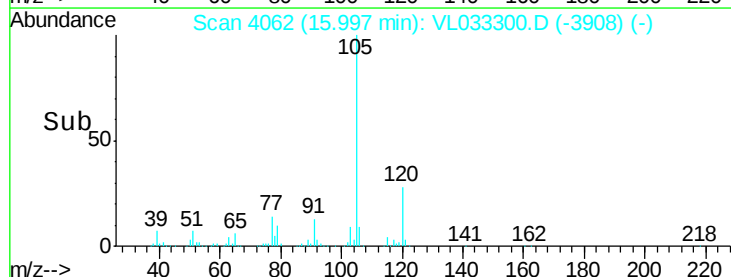
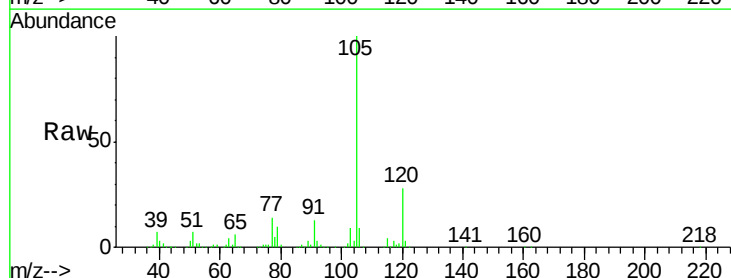
Ion Ratio Lower Upper

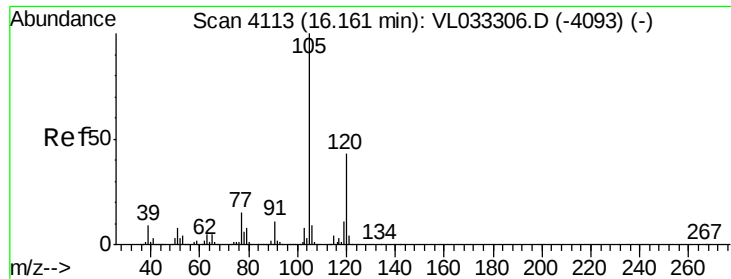
105 100

120 28.6 22.7 34.1

91 13.4 10.3 15.5

77 14.7 11.1 16.7





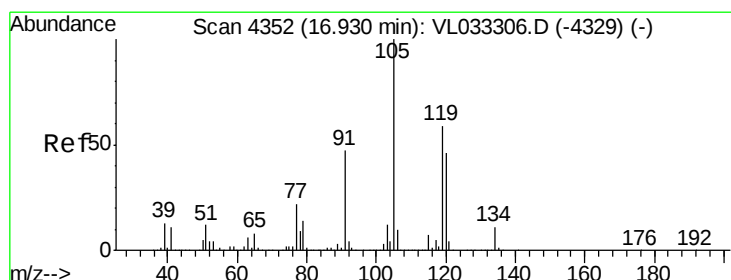
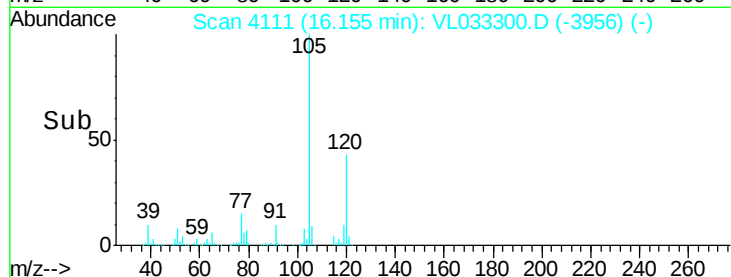
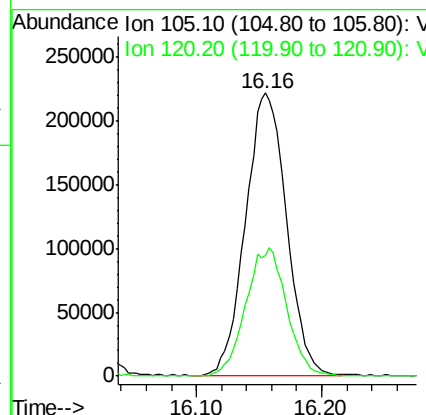
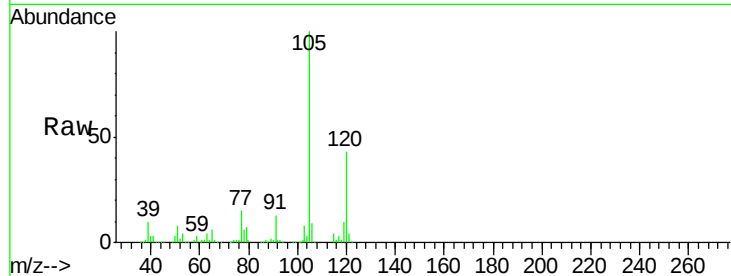
#73
 1,3,5-Trimethylbenzene
 Concen: 2.051 ppbv
 RT: 16.16 min Scan# 4111
 Delta R.T. -0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.0	34.6	52.0

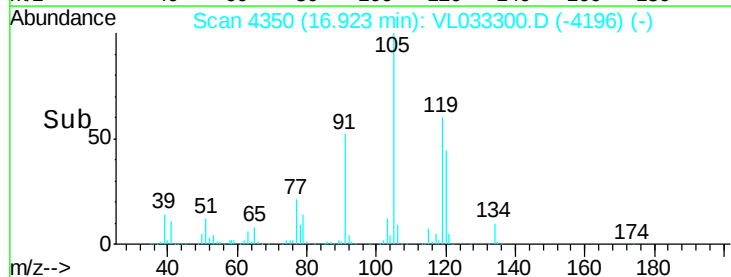
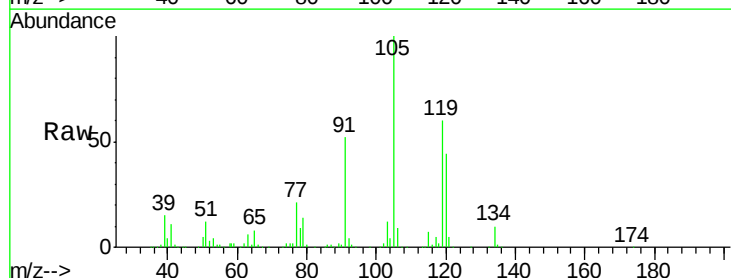
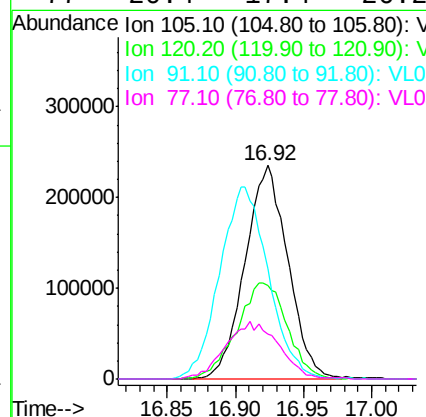
Manual Integrations
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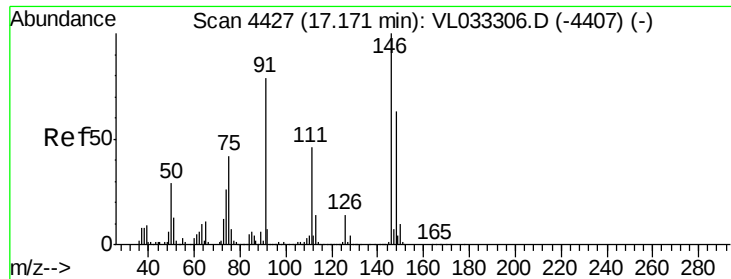
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#74
 1,2,4-Trimethylbenzene
 Concen: 2.058 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. -0.01 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.3	35.2	52.8
91	51.1	34.0	51.0#
77	20.4	17.4	26.2





#75

1,3-Dichlorobenzene

Concen: 2.215 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.00 min

Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Instrument :

MSVOA_L

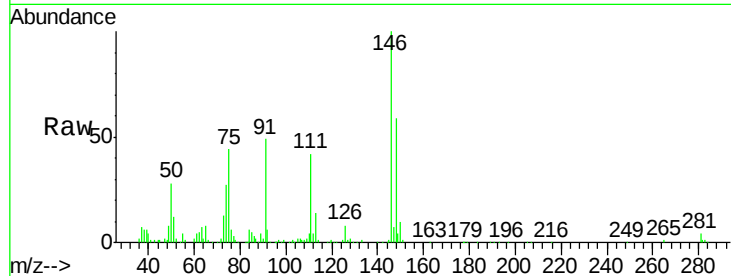
ClientSampleId :

VSTDIC002

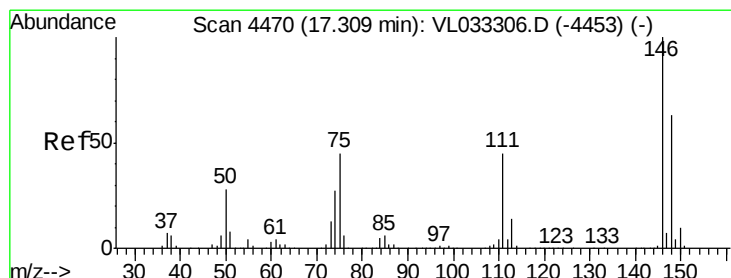
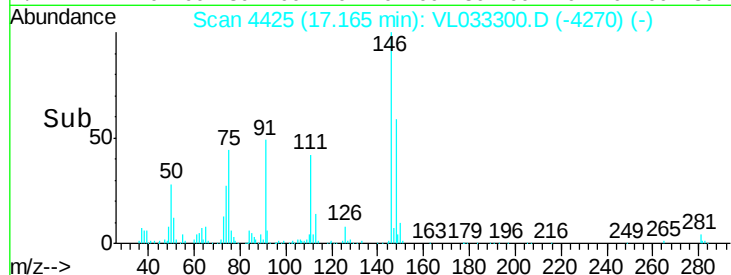
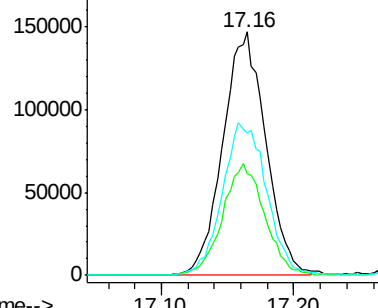
Tgt Ion:	146	Resp:	331694
Ion Ratio	Lower	Upper	
146	100		
111	45.4	22.9	68.7
148	64.8	32.4	97.0

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3/15/2019 10:41:40 PM



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: 2.129 ppbv

RT: 17.30 min Scan# 4468

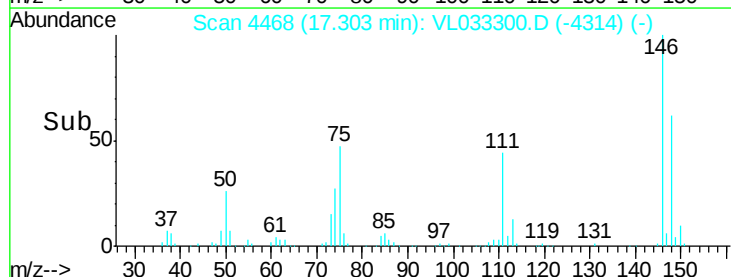
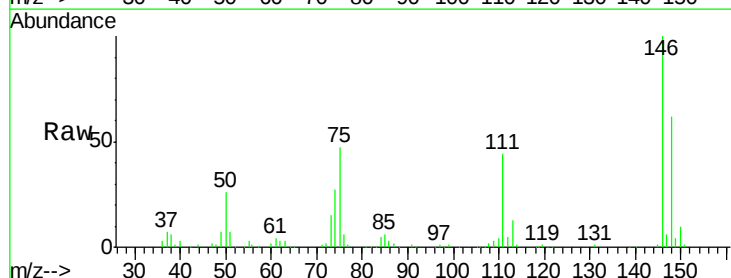
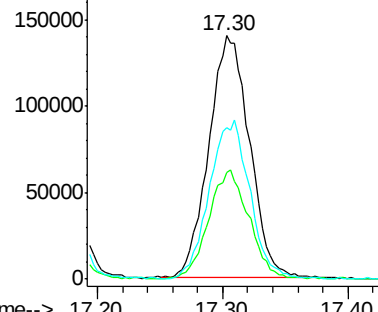
Delta R.T. -0.01 min

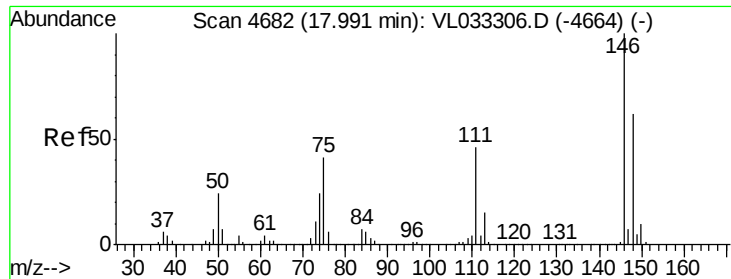
Lab File: VL033300.D

Acq: 13 Mar 2019 17:12

Tgt Ion:	146	Resp:	315321
Ion Ratio	Lower	Upper	
146	100		
111	45.2	21.9	65.5
148	65.2	31.8	95.4

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





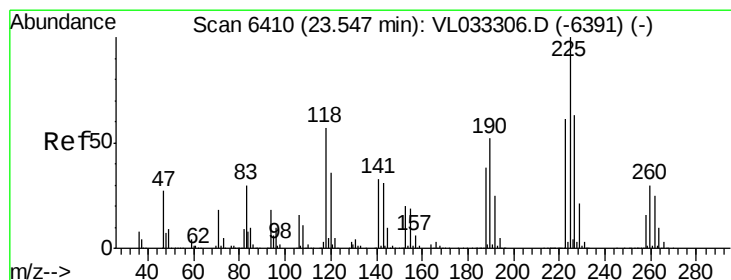
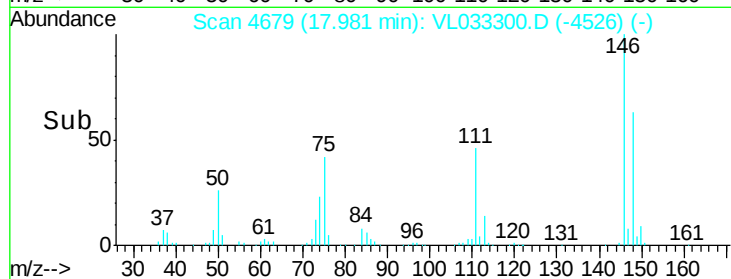
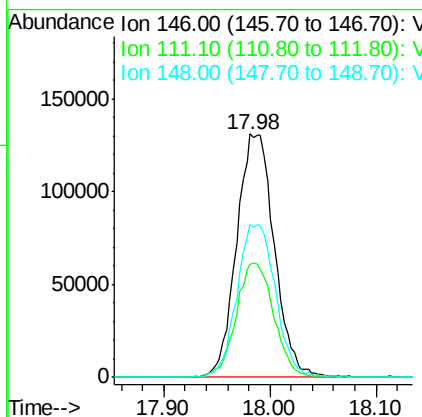
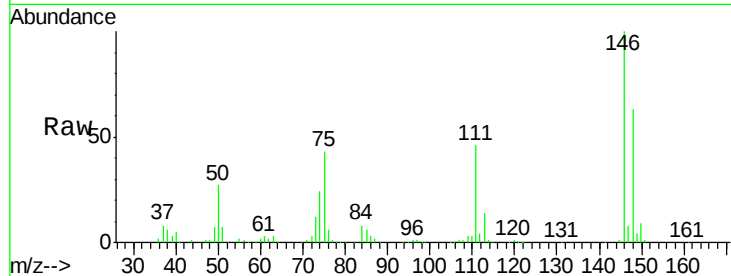
#77
 1,2-Dichlorobenzene
 Concen: 2.168 ppbv m
 RT: 17.98 min Scan# 4679
 Delta R.T. -0.01 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	323131		
111	47.1	23.2	69.6	
148	0.0	32.0	96.0	

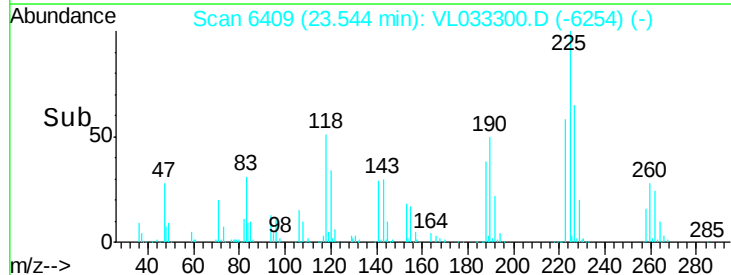
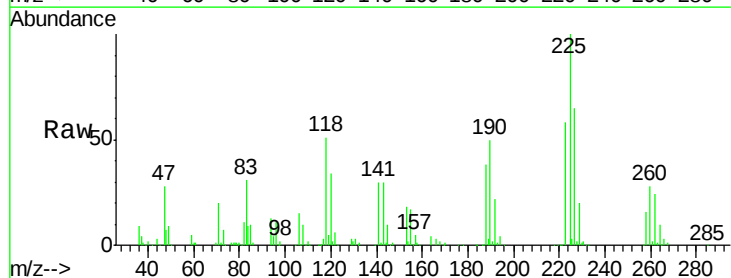
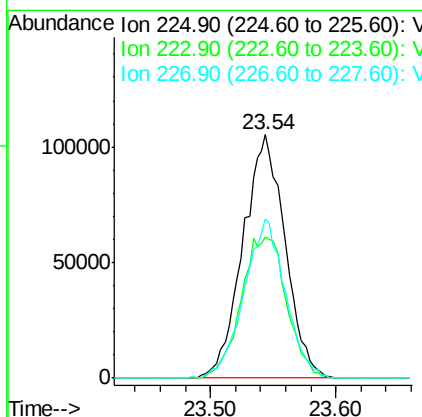
Manual Integrations
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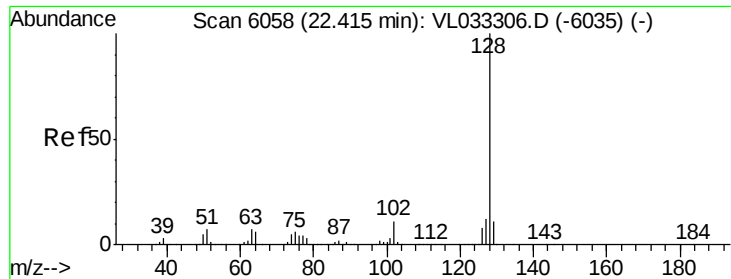
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#78
 Hexachloro-1,3-Butadiene
 Concen: 1.975 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	245344		
223	62.6	50.3	75.5	
227	64.0	51.2	76.8	





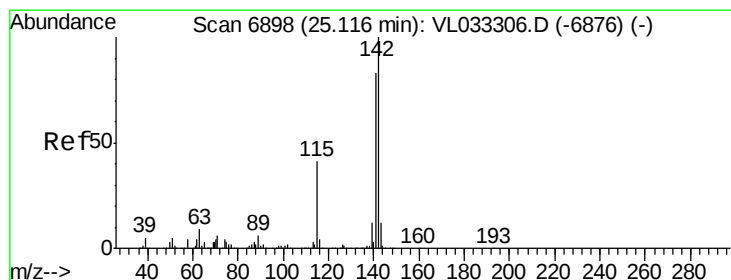
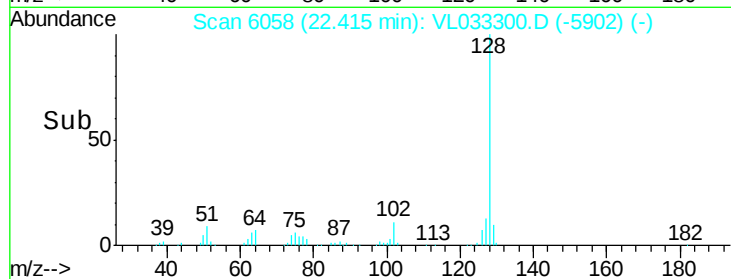
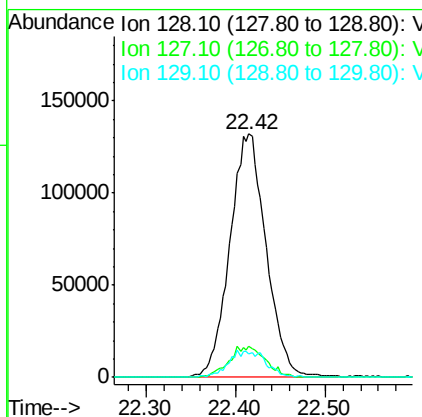
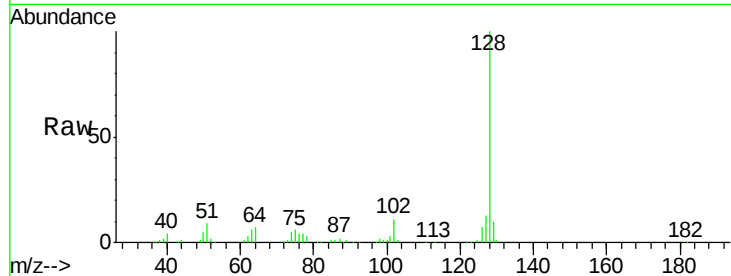
#79
Naphthalene
Concen: 1.377 ppbv m
RT: 22.42 min Scan# 6058
Delta R.T. 0.00 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	372438		
127	12.8	10.8	16.2	
129	9.9	8.9	13.3	

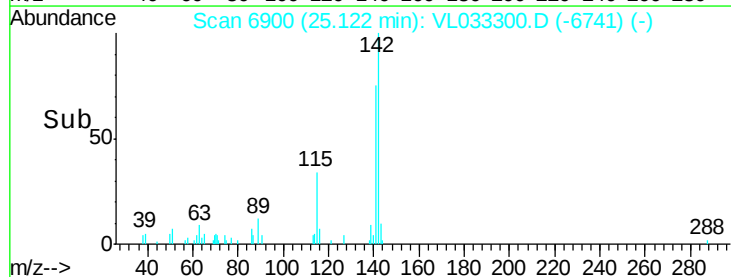
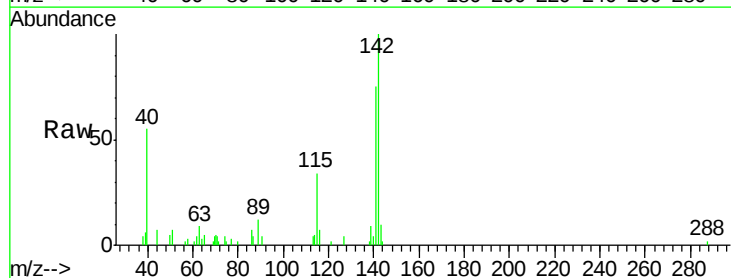
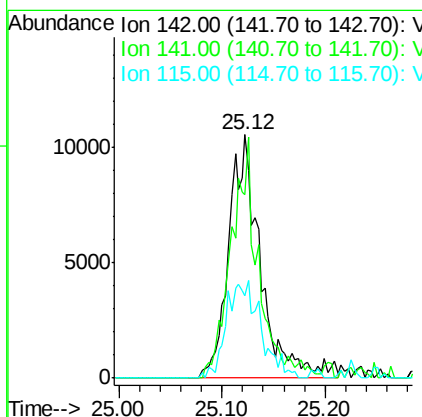
Manual Integrations
APPROVED

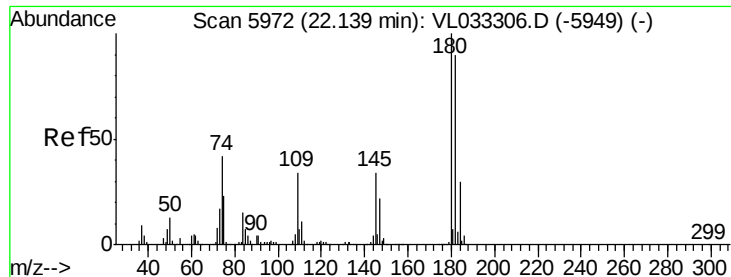
MMDadoda
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#80
Naphthalene, 2-methyl-
Concen: 0.306 ppbv
RT: 25.12 min Scan# 6900
Delta R.T. 0.01 min
Lab File: VL033300.D
Acq: 13 Mar 2019 17:12

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	22682		
141	85.0	67.2	100.8	
115	43.0	33.6	50.4	





#81
 1,2,4-Trichlorobenzene
 Concen: 1.594 ppbv m
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.01 min
 Lab File: VL033300.D
 Acq: 13 Mar 2019 17:12

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	227054		
182	0.0	76.4	114.6#	
184	28.9	24.6	36.8	

Manual Integrations
 APPROVED

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