

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070819\
 Data File : VL034015.D
 Acq On : 8 Jul 2019 17:19
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 7/10/2019 8:50:12 AM

Quant Time: Jul 09 05:09:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 09
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1107227	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2821812	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	3041174	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2250145	8.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	86.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	1797598	7.867	ppbv	100
3) Chlorodifluoromethane	2.99	51	1274392	9.321	ppbv	100
4) Chloromethane	3.15	50	740208	9.415	ppbv	96
5) Vinyl Chloride	3.27	62	813185	9.198	ppbv	97
6) Bromomethane	3.49	94	529176	10.151	ppbv	96
7) Chloroethane	3.58	64	309319	9.790	ppbv	97
8) Dichlorotetrafluoroethane	3.20	85	2107618	9.461	ppbv	100
9) Propene	3.02	41	484279	9.628	ppbv	95
10) Heptane	8.21	43	1402392	11.136	ppbv	100
11) Trichlorofluoromethane	3.98	101	2264509	8.814	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1624996	8.935	ppbv	99
13) Ethanol	3.63	45	146001	9.344	ppbv	91
14) Bromoethene	3.76	108	702859	10.350	ppbv	98
15) Acetone	3.88	43	1529817	8.218	ppbv	100
16) 1,3-Butadiene	3.34	39	675362	10.274	ppbv	99
17) tert-Butyl alcohol	4.33	59	1452868	9.789	ppbv	99
18) 1,1-Dichloroethene	4.33	96	758661	9.366	ppbv	99
19) Isopropyl Alcohol	4.00	45	1156111	9.252	ppbv	100
20) Methylene Chloride	4.38	84	661773	8.151	ppbv	96
21) Allyl Chloride	4.45	41	1111115	9.573	ppbv	99
22) trans-1,2-Dichloroethene	4.93	96	806381	10.448	ppbv	98
23) Vinyl Acetate	5.13	43	2022849	10.887	ppbv	100
24) 1,1-Dichloroethane	5.07	63	1678619	10.194	ppbv	100
25) Ethyl Acetate	5.74	43	2673792	10.501	ppbv	100
26) Hexane	5.75	57	1227729	10.537	ppbv	98
27) Carbon Disulfide	4.59	76	1988026	10.036	ppbv	100
28) Methyl tert-Butyl Ether	5.08	73	2103129	10.658	ppbv	100
29) Chloroform	5.82	83	2137111	9.760	ppbv	99
30) Cyclohexane	7.21	84	1027469	11.418	ppbv	96
31) cis-1,2-Dichloroethene	5.61	61	1274133	11.318	ppbv	99
32) 1,1,1-Trichloroethane	6.59	97	2081812	9.380	ppbv	99
34) 2-Butanone	5.30	43	1617126	10.828	ppbv	99
35) Carbon Tetrachloride	7.10	117	2230970	9.987	ppbv	96
36) Benzene	6.97	78	2488556	11.271	ppbv	99
37) 1,2-Dichloroethane	6.38	62	1652298	10.158	ppbv	100
38) Trichloroethene	7.93	130	1098615	11.183	ppbv	95
39) 1,2-Dichloropropane	7.70	63	895950	10.912	ppbv	97
40) 1,4-Dioxane	7.92	88	419288	11.061	ppbv #	95
41) Tetrahydrofuran	6.12	42	832417	11.366	ppbv	97
42) Bromodichloromethane	7.88	83	2334735	10.697	ppbv	97
43) Methyl Methacrylate	8.10	69	1017347	12.144	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4209621	11.045	ppbv	99
45) t-1,3-Dichloropropene	9.38	75	1411989	12.889	ppbv	95
46) cis-1,3-Dichloropropene	8.80	75	1553168	12.242	ppbv	98
47) 1,1,2-Trichloroethane	9.58	97	1088615	10.546	ppbv	97
48) Dibromochloromethane	10.41	129	2016650	10.238	ppbv	100
49) Bromoform	13.16	173	1874616	11.140	ppbv	98
50) 4-Methyl-2-Pentanone	8.83	43	2426266	10.948	ppbv	98
51) 2-Hexanone	10.23	43	2001218	11.197	ppbv #	99
52) Tetrachloroethene	11.33	164	1029370	10.832	ppbv	97
53) Toluene	9.91	91	3026759	11.975	ppbv	99
54) 1,2-Dibromoethane	10.72	107	1688988	11.087	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.24	131	1330917	9.792	ppbv #	93
57) Chlorobenzene	12.26	112	2353610	9.721	ppbv	95
58) Ethyl Benzene	12.82	91	4191811	11.462	ppbv	99
59) m/p-Xylene	13.11	91	7088445m	21.406	ppbv	
60) o-Xylene	13.81	91	3488282	10.530	ppbv	99
61) Styrene	13.64	104	2595405	11.839	ppbv	99
62) Isopropylbenzene	14.78	105	4653396	9.138	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2406407	9.385	ppbv	99
64) n-propylbenzene	15.68	120	1190025	9.011	ppbv	99
65) tert-Butylbenzene	16.87	119	4190536	9.677	ppbv	99
66) Benzyl Chloride	17.12	91	2325552	10.496	ppbv	100
67) sec-Butylbenzene	17.42	105	5848705	9.622	ppbv	99
69) p-Isopropyltoluene	17.78	119	4847724	9.673	ppbv	100
70) n-Butylbenzene	18.67	91	5035579	9.565	ppbv	99
71) 2-Chlorotoluene	15.58	91	3478891	9.335	ppbv	100
72) 4-Ethyltoluene	15.96	105	4048764	9.517	ppbv	99
73) 1,3,5-Trimethylbenzene	16.12	105	3912944	9.885	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	4070729	9.285	ppbv	95
75) 1,3-Dichlorobenzene	17.12	146	2427081	8.715	ppbv	99
76) 1,4-Dichlorobenzene	17.27	146	2398569	9.145	ppbv	99
77) 1,2-Dichlorobenzene	17.95	146	2320294	8.998	ppbv	100
78) Hexachloro-1,3-Butadiene	23.50	225	2114620	9.637	ppbv	98
79) Naphthalene	22.36	128	3745891	10.163	ppbv	98
80) Naphthalene, 2-methyl-	25.08	142	1948906	14.530	ppbv	97
81) 1,2,4-Trichlorobenzene	22.09	180	2220370	9.380	ppbv	100

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

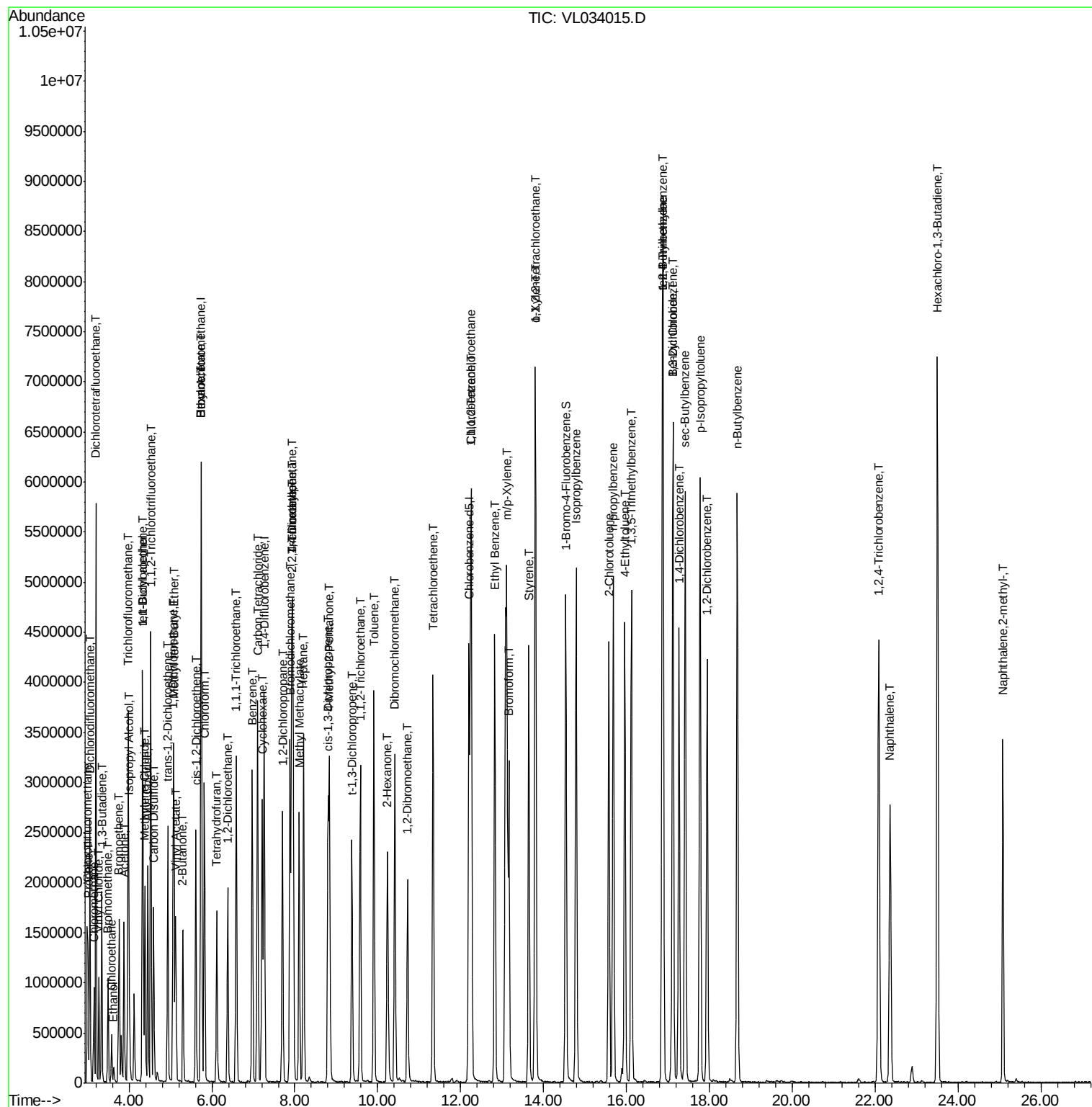
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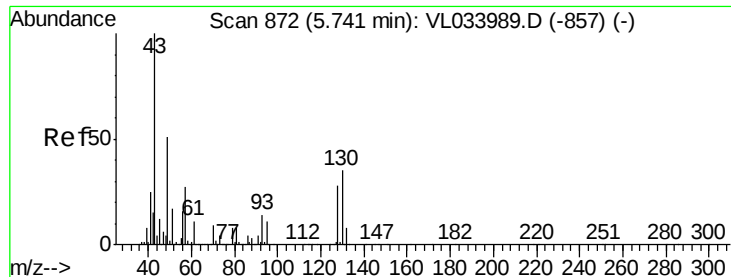
Instrument :
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 869

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1107227

Ion Ratio Lower Upper

49 100

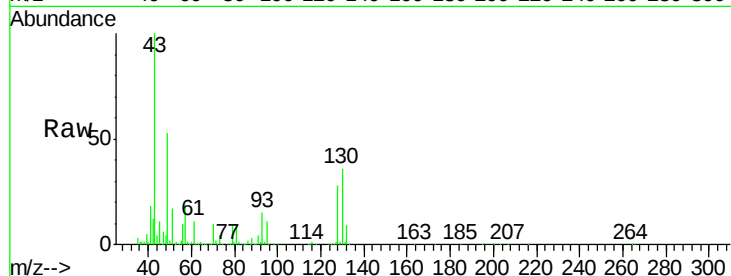
128 55.9 27.9 83.6

130 72.4 35.8 107.4

Manual Integrations
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7/10/2019 8:50:12 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.73

800000

600000

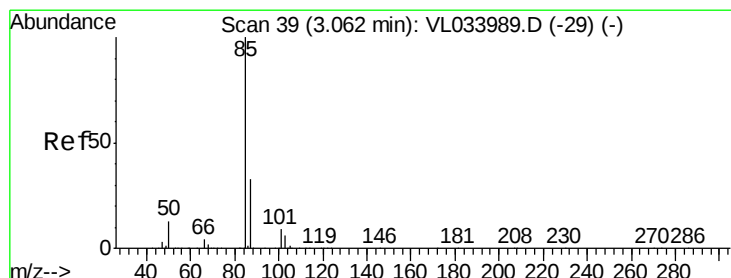
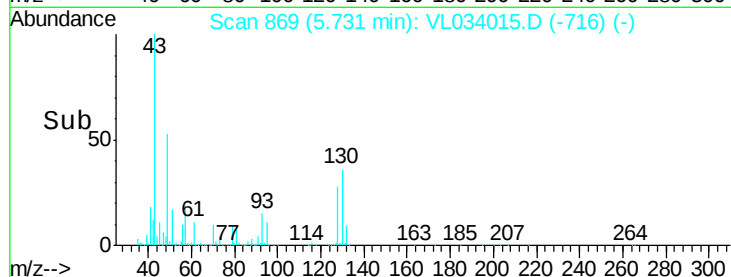
400000

200000

0

5.65 5.70 5.75 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 7.867 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.00 min

Lab File: VL034015.D

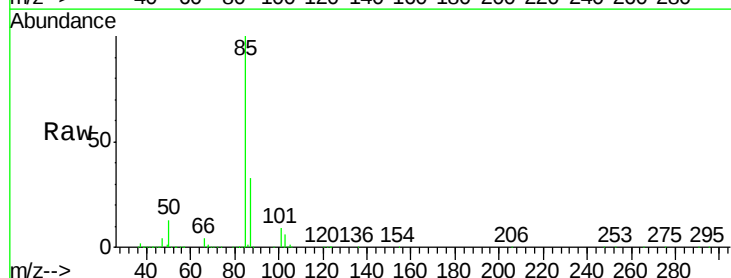
Acq: 8 Jul 2019 17:19

Tgt Ion: 85 Resp: 1797598

Ion Ratio Lower Upper

85 100

87 32.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.06

1500000

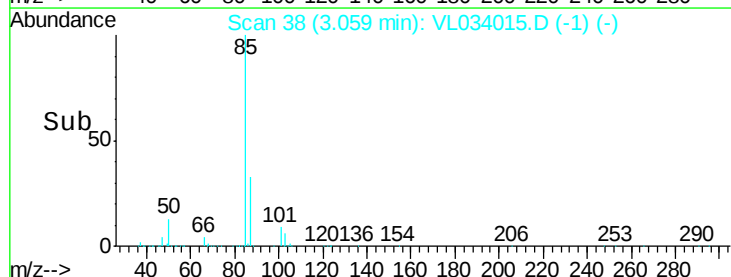
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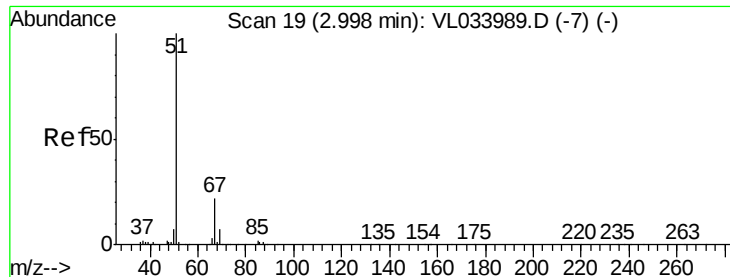
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3.00 3.05 3.10

Time-->





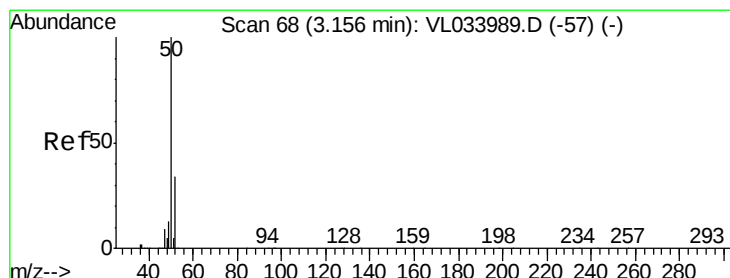
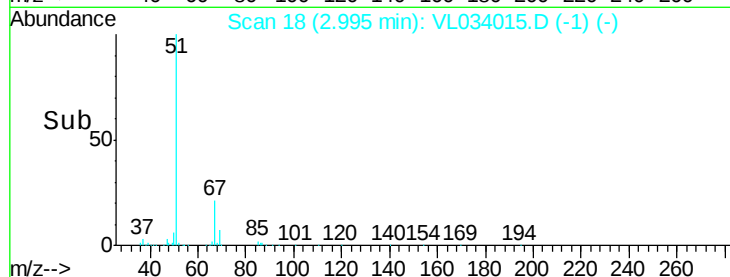
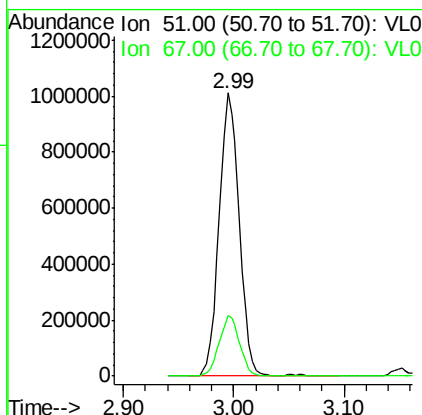
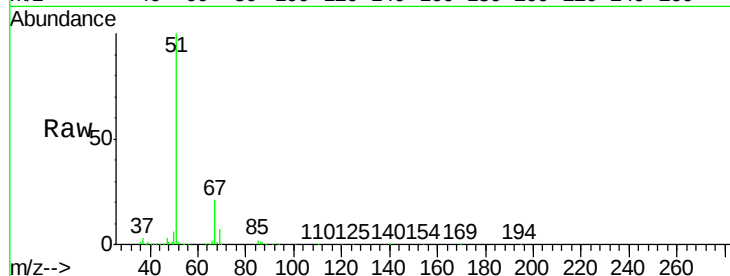
#3
Chlorodifluoromethane
Concen: 9.321 ppbv
RT: 2.99 min Scan# 18
Delta R.T. -0.00 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 51 Resp: 1274392
Ion Ratio Lower Upper
51 100
67 21.8 17.3 25.9

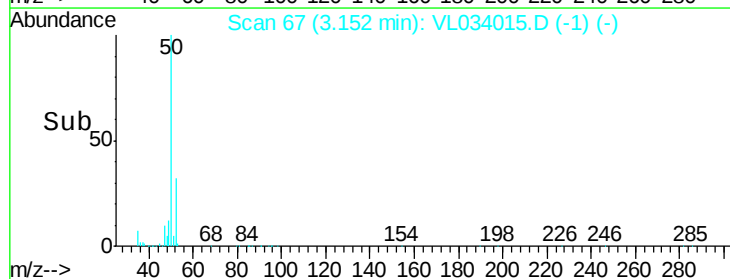
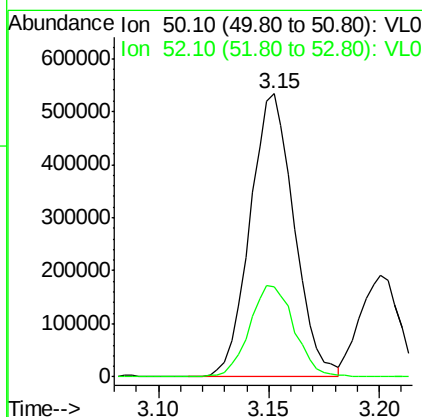
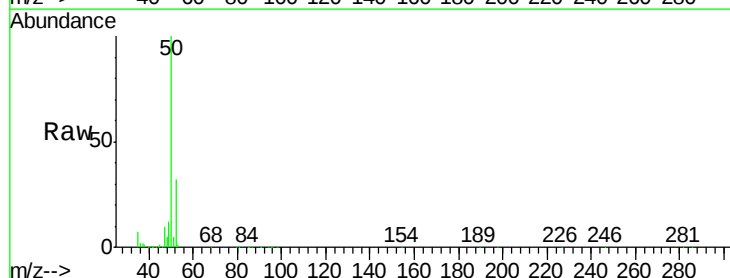
Manual Integrations
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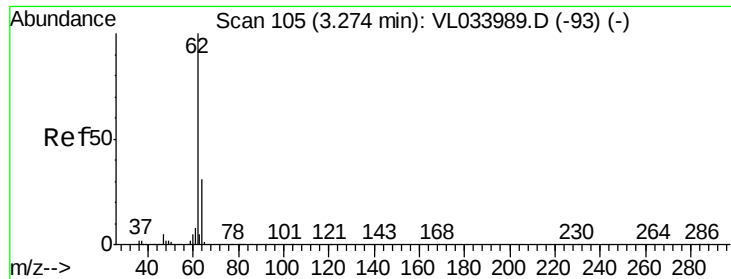
MMDadoda
7/10/2019 8:50:12 AM



#4
Chloromethane
Concen: 9.415 ppbv
RT: 3.15 min Scan# 67
Delta R.T. -0.00 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion: 50 Resp: 740208
Ion Ratio Lower Upper
50 100
52 32.1 27.4 41.0





#5

Vinyl Chloride

Concen: 9.198 ppbv

RT: 3.27 min Scan# 104

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 813185

Ion Ratio Lower Upper

62 100

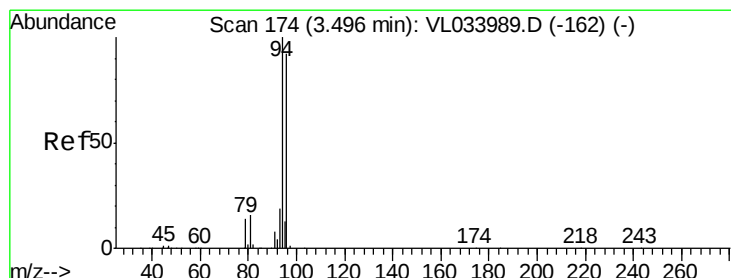
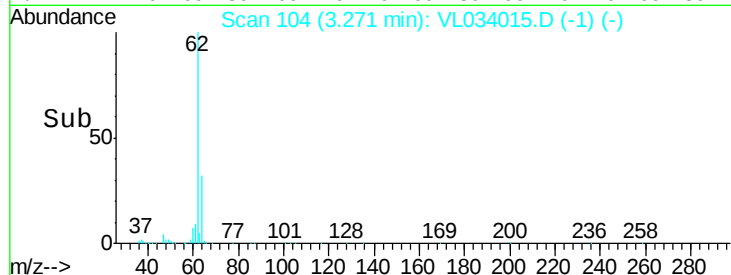
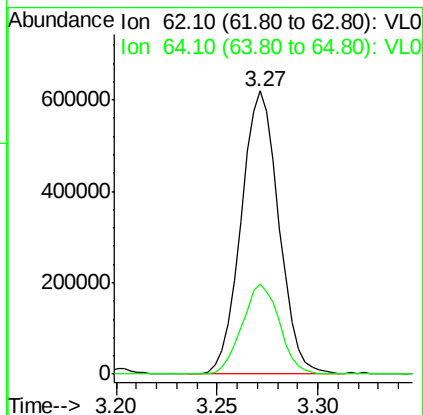
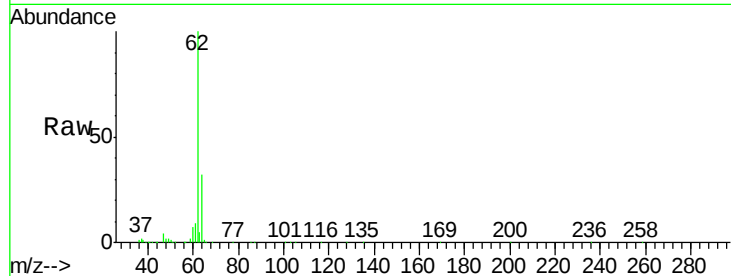
64 31.9 24.4 36.6

Manual Integrations

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7/10/2019 8:50:12 AM



#6

Bromomethane

Concen: 10.151 ppbv

RT: 3.49 min Scan# 173

Delta R.T. -0.00 min

Lab File: VL034015.D

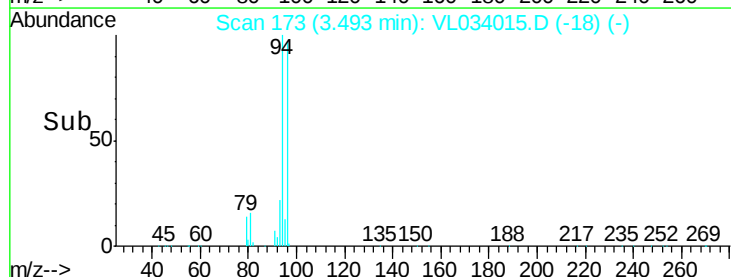
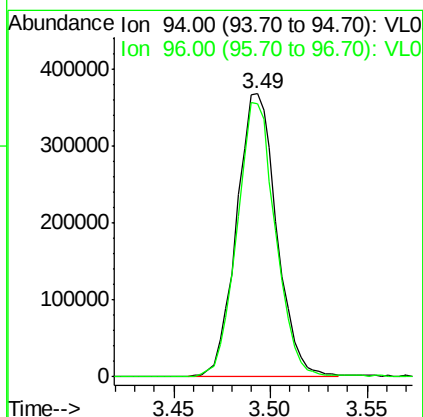
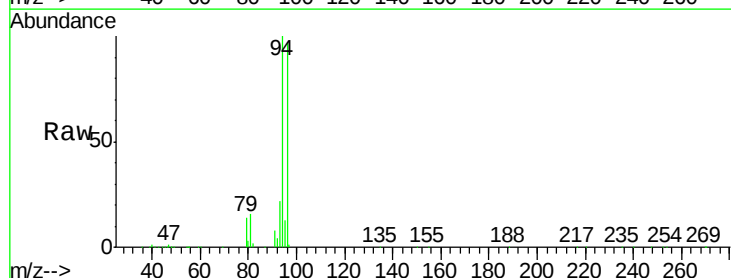
Acq: 8 Jul 2019 17:19

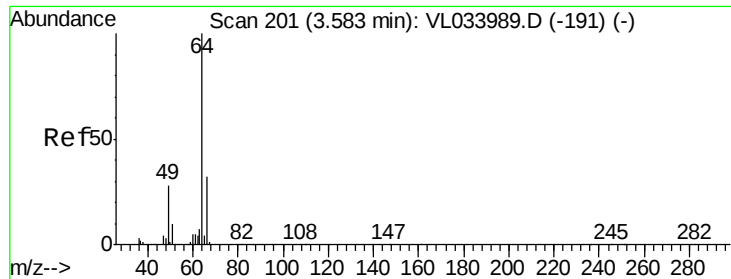
Tgt Ion: 94 Resp: 529176

Ion Ratio Lower Upper

94 100

96 96.3 73.8 110.8





#7

Chloroethane

Concen: 9.790 ppbv

RT: 3.58 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 309319

Ion Ratio Lower Upper

64 100

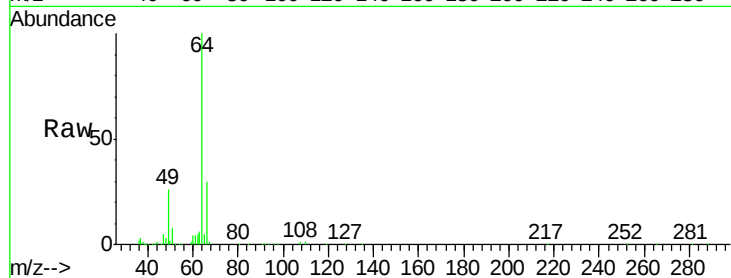
66 29.9 25.3 37.9

Manual Integrations

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7/10/2019 8:50:12 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

250000

200000

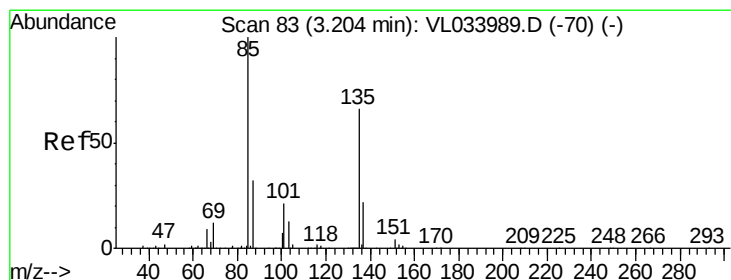
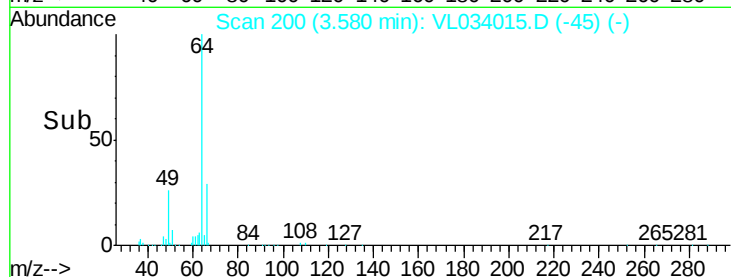
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50000

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Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.461 ppbv

RT: 3.20 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL034015.D

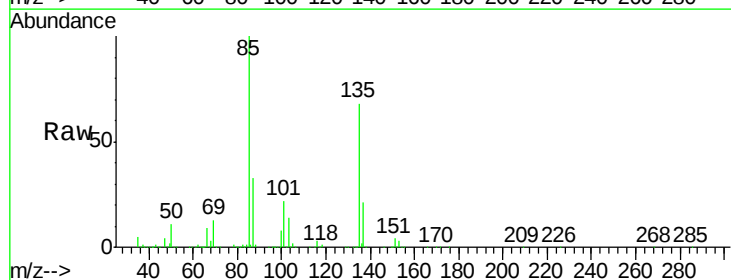
Acq: 8 Jul 2019 17:19

Tgt Ion: 85 Resp: 2107618

Ion Ratio Lower Upper

85 100

135 68.4 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

2000000

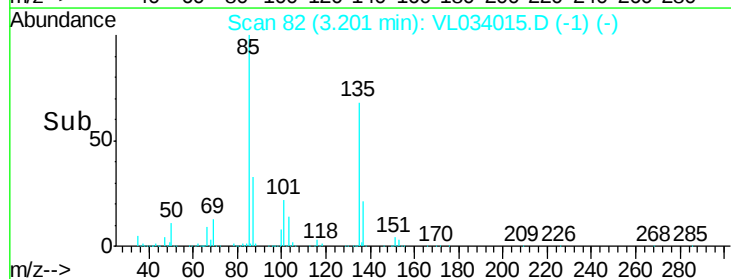
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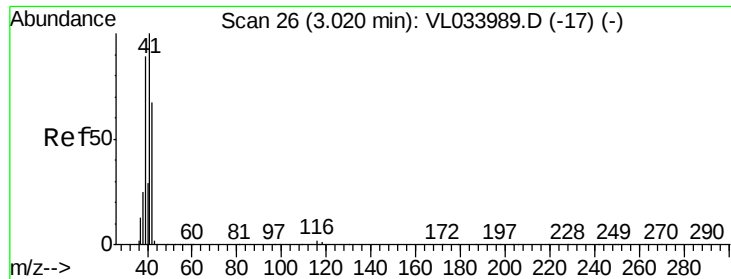
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Time-->





#9

Propene

Concen: 9.628 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 484279

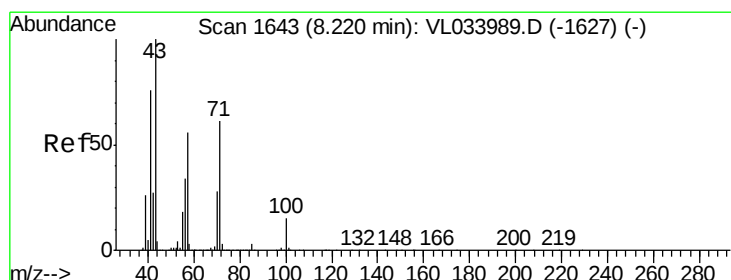
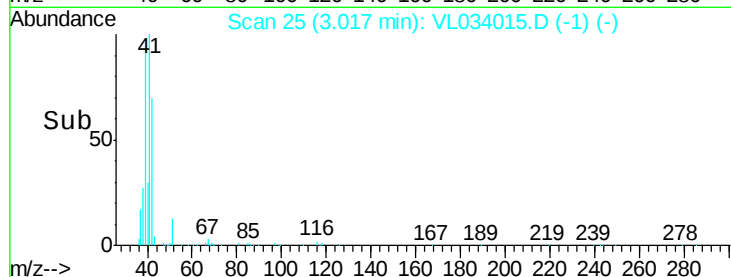
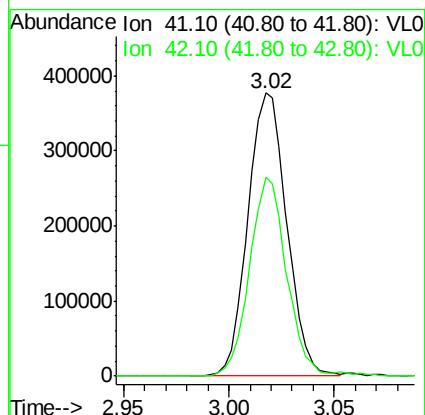
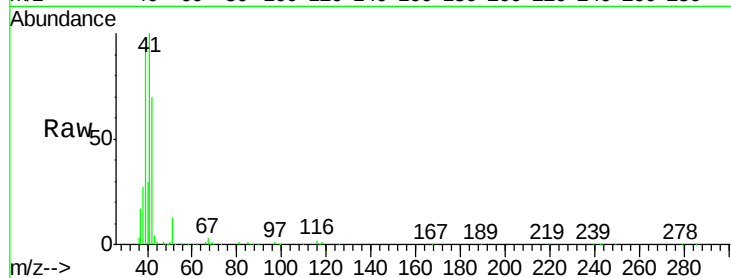
Ion Ratio Lower Upper

41 100

42 67.5 57.1 85.7

Manual Integrations
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7/10/2019 8:50:12 AM



#10

Heptane

Concen: 11.136 ppbv

RT: 8.21 min Scan# 1640

Delta R.T. -0.01 min

Lab File: VL034015.D

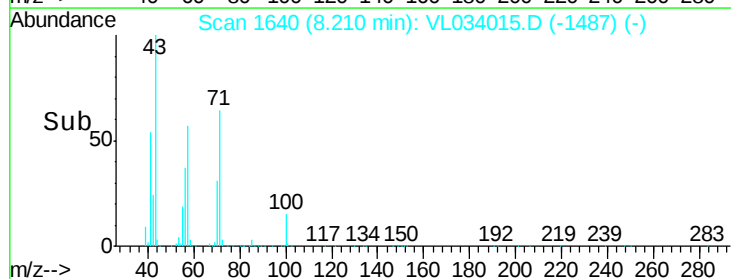
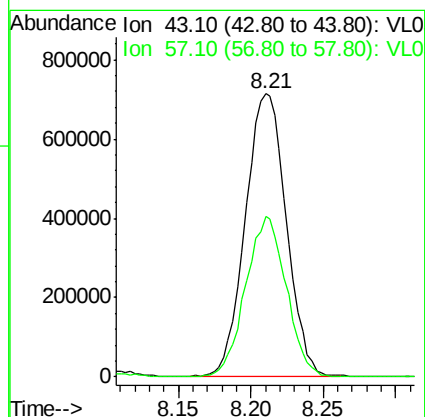
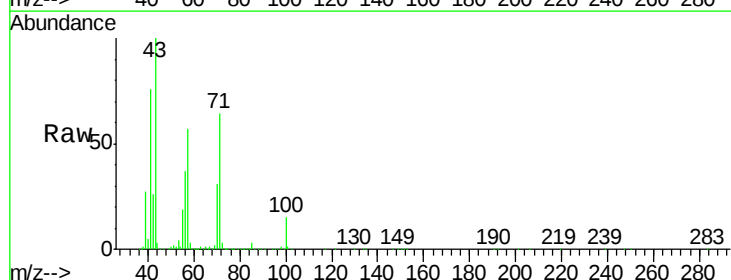
Acq: 8 Jul 2019 17:19

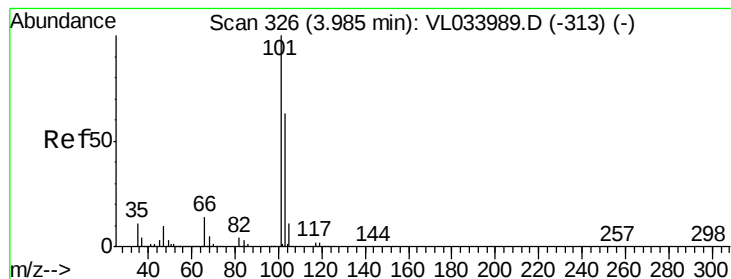
Tgt Ion: 43 Resp: 1402392

Ion Ratio Lower Upper

43 100

57 55.8 44.6 66.8





#11

Trichlorofluoromethane

Concen: 8.814 ppbv

RT: 3.98 min Scan# 324

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 2264509

Ion Ratio Lower Upper

101 100

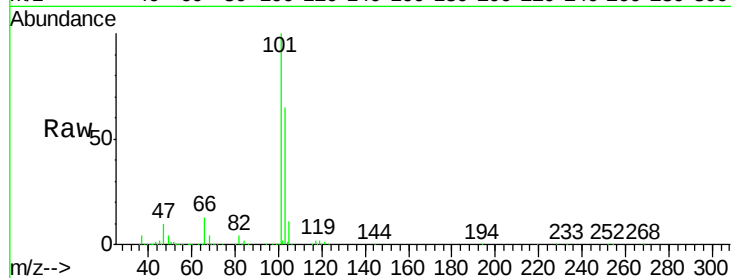
103 64.9 50.8 76.2

Manual Integrations

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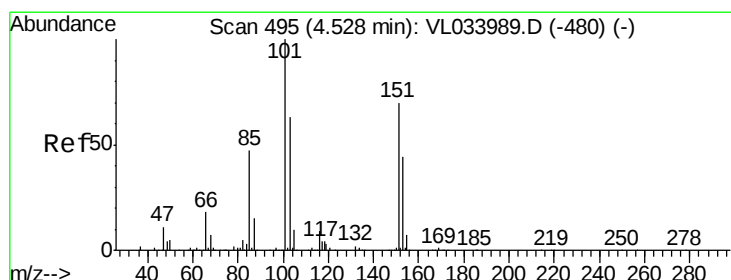
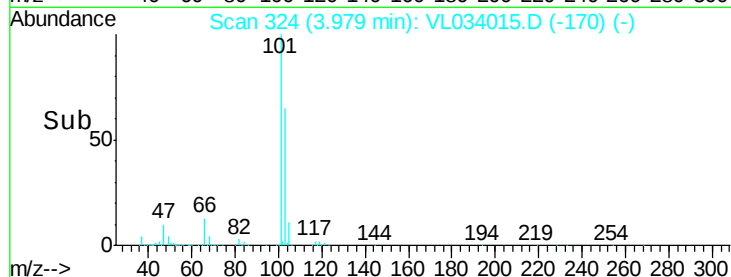
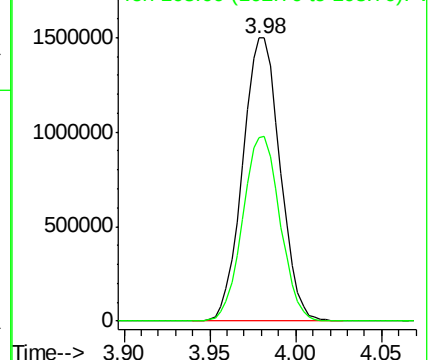
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.935 ppbv

RT: 4.53 min Scan# 494

Delta R.T. -0.00 min

Lab File: VL034015.D

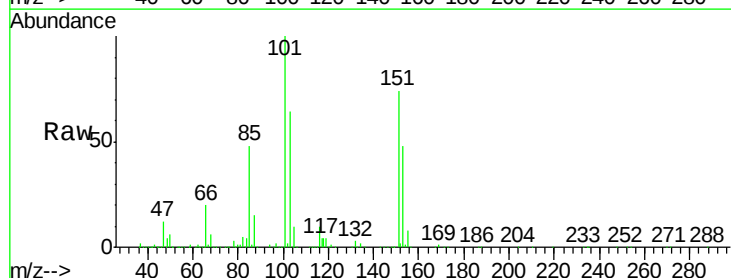
Acq: 8 Jul 2019 17:19

Tgt Ion:101 Resp: 1624996

Ion Ratio Lower Upper

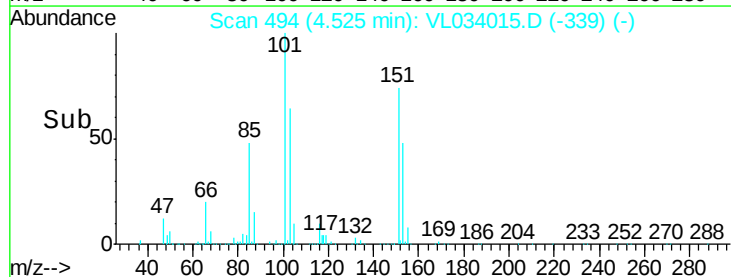
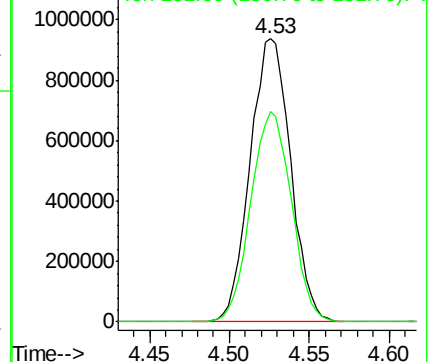
101 100

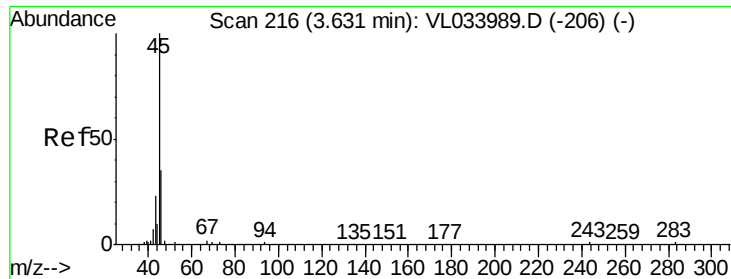
151 74.3 59.0 88.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





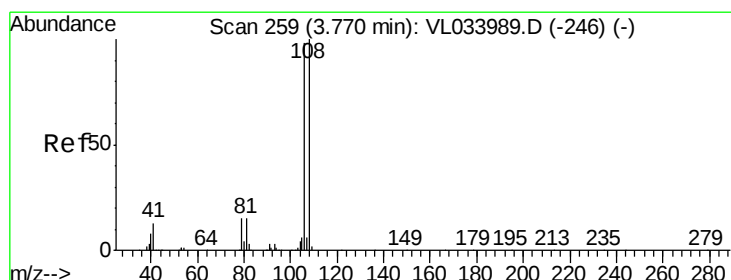
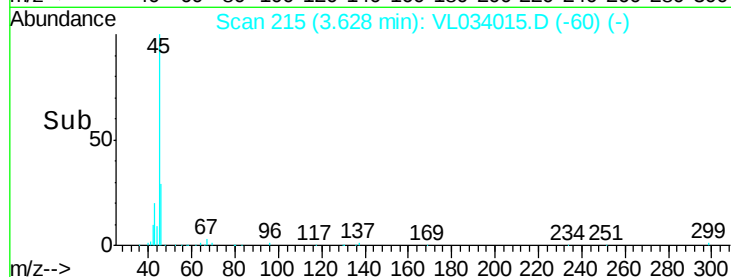
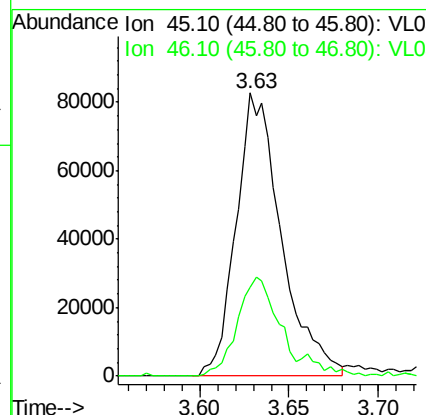
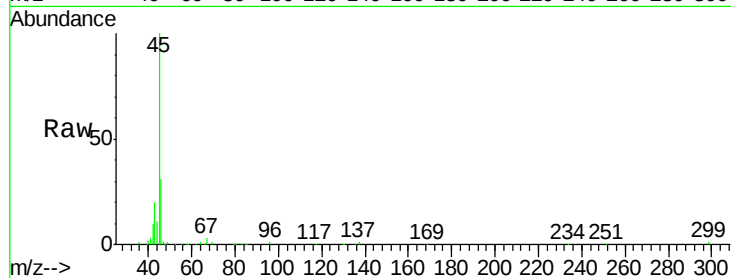
#13
Ethanol
Concen: 9.344 ppbv
RT: 3.63 min Scan# 215
Delta R.T. -0.00 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	34.9	16.2	64.6

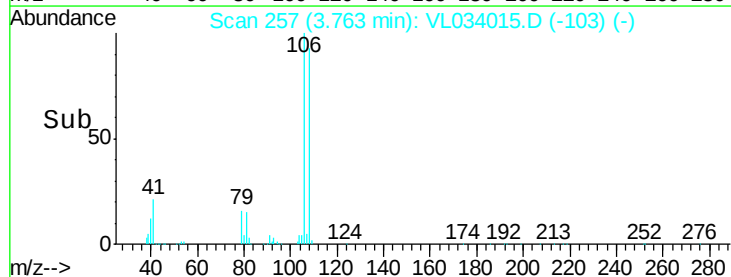
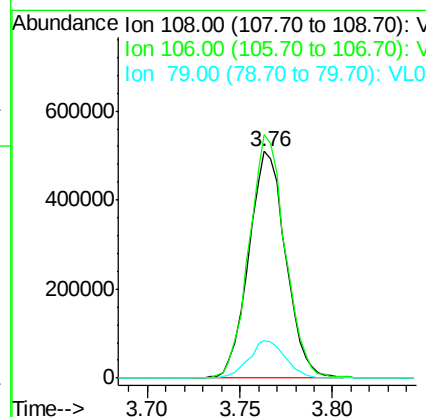
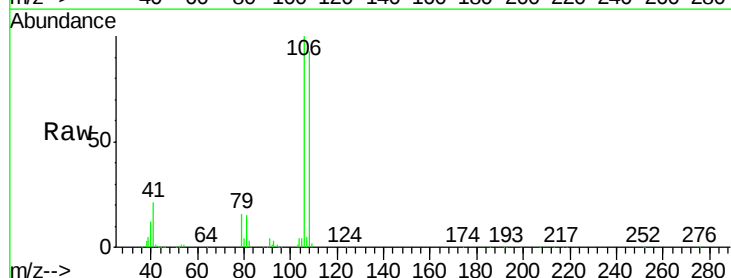
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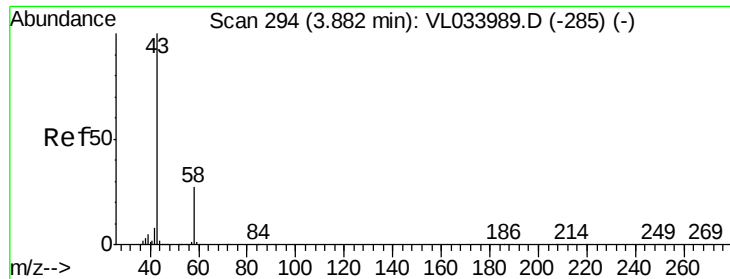
MMDadoda
7/10/2019 8:50:12 AM



#14
Bromoethene
Concen: 10.350 ppbv
RT: 3.76 min Scan# 257
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.5	85.6	128.4
79	16.4	14.0	21.0





#15

Acetone

Concen: 8.218 ppbv

RT: 3.88 min Scan# 293

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1529817

Ion Ratio Lower Upper

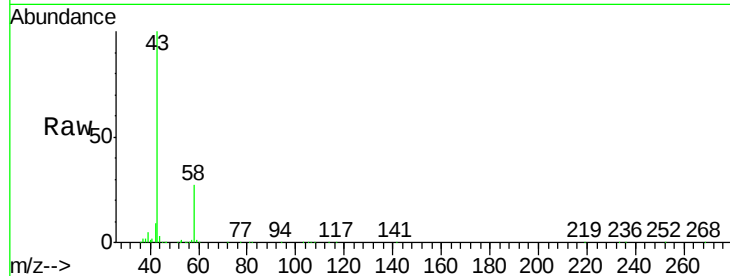
43 100

58 26.7 21.4 32.0

Manual Integrations
APPROVED

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1200000

1000000

800000

600000

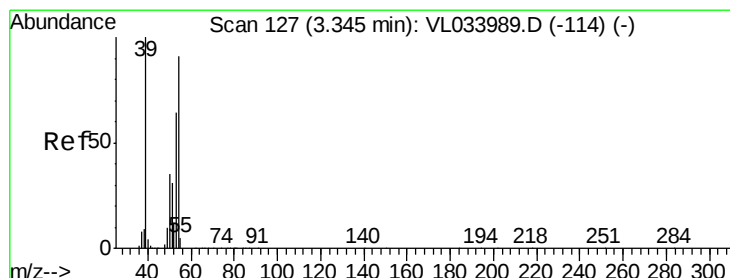
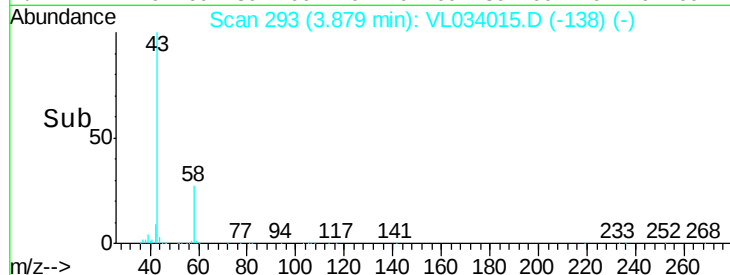
400000

200000

0

3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 10.274 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.00 min

Lab File: VL034015.D

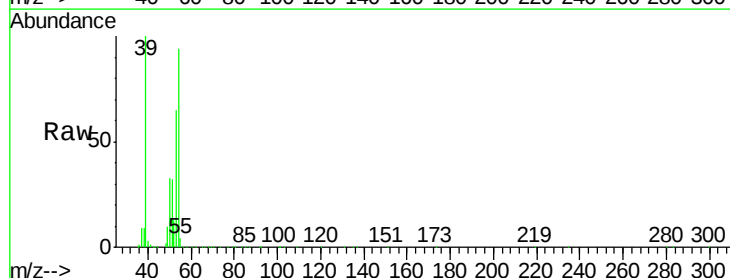
Acq: 8 Jul 2019 17:19

Tgt Ion: 39 Resp: 675362

Ion Ratio Lower Upper

39 100

54 88.4 71.4 107.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

600000

500000

400000

300000

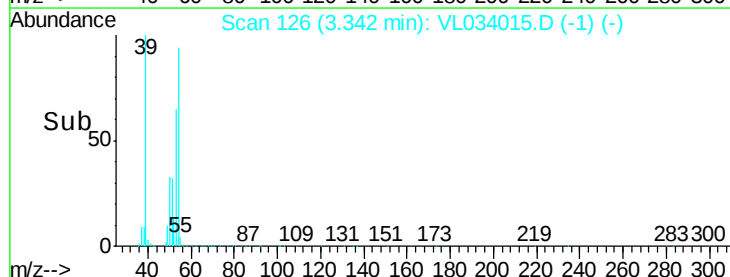
200000

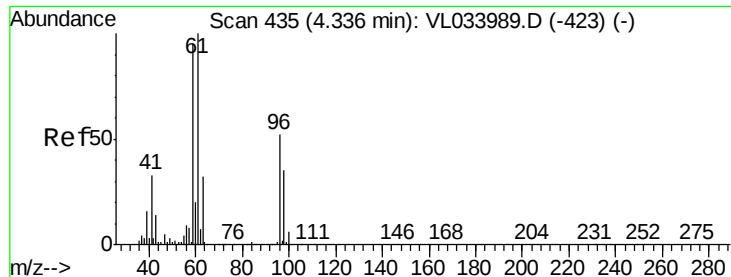
100000

0

3.25 3.30 3.35 3.40

Time-->





#17

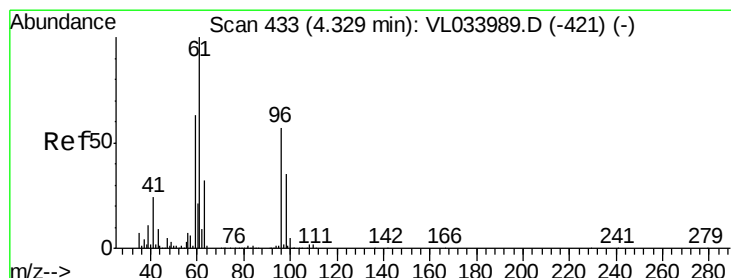
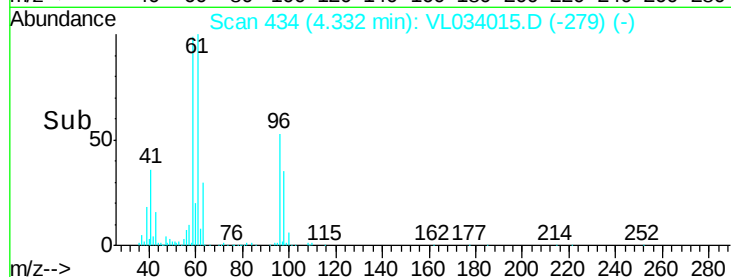
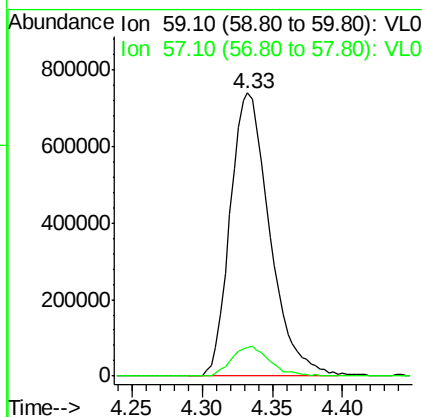
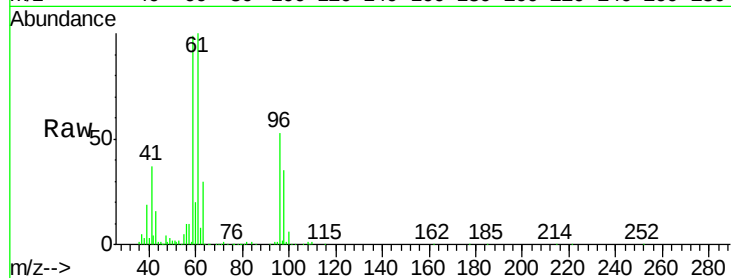
tert-Butyl alcohol
Concen: 9.789 ppbv
RT: 4.33 min Scan# 434
Delta R.T. -0.00 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1452868
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.2

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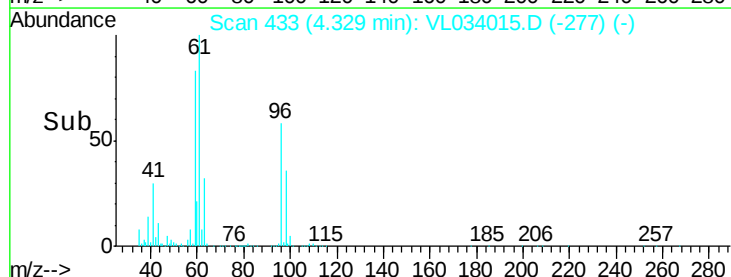
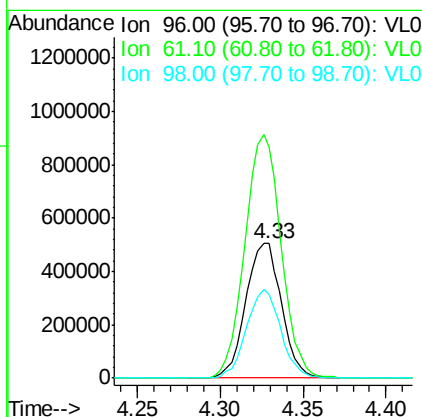
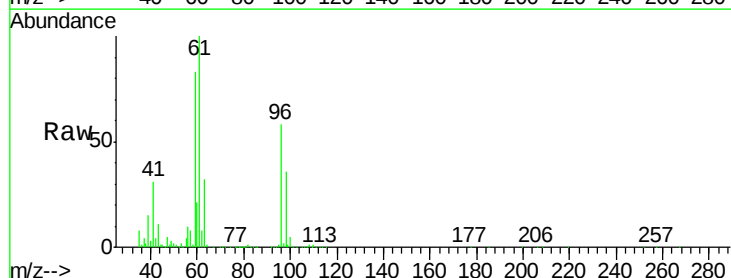
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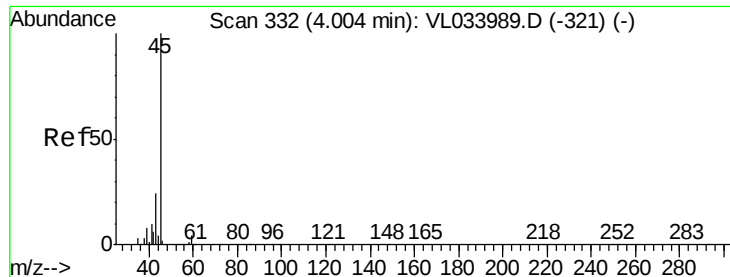


#18

1,1-Dichloroethene
Concen: 9.366 ppbv
RT: 4.33 min Scan# 433
Delta R.T. 0.00 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion: 96 Resp: 758661
Ion Ratio Lower Upper
96 100
61 172.1 139.4 209.0
98 61.8 49.4 74.0





#19

Isopropyl Alcohol

Concen: 9.252 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1156111

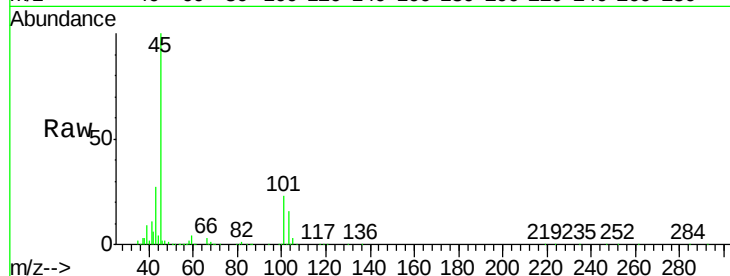
Ion Ratio Lower Upper

45 100

58 2.3 1.7 2.5

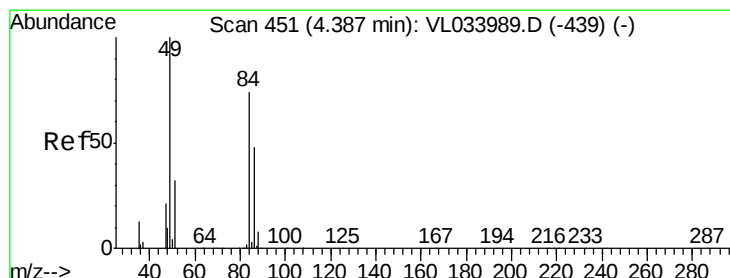
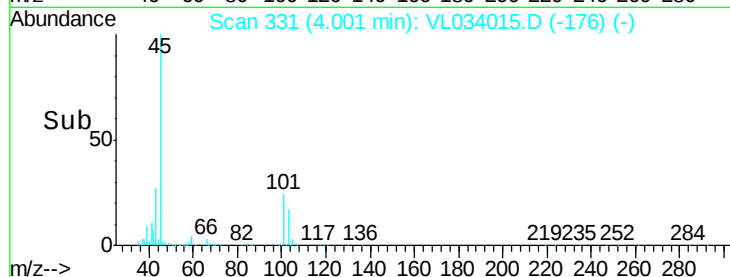
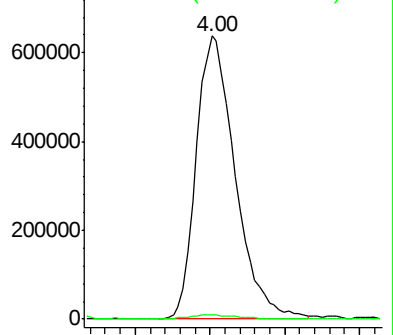
Manual Integrations
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7/10/2019 8:50:12 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.151 ppbv

RT: 4.38 min Scan# 449

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Tgt Ion: 84 Resp: 661773

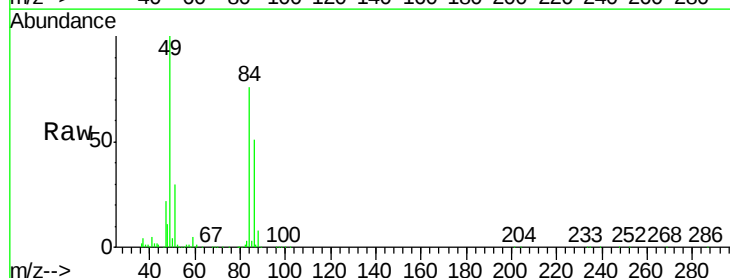
Ion Ratio Lower Upper

84 100

49 130.8 107.6 161.4

51 39.1 35.0 52.6

86 67.2 52.1 78.1

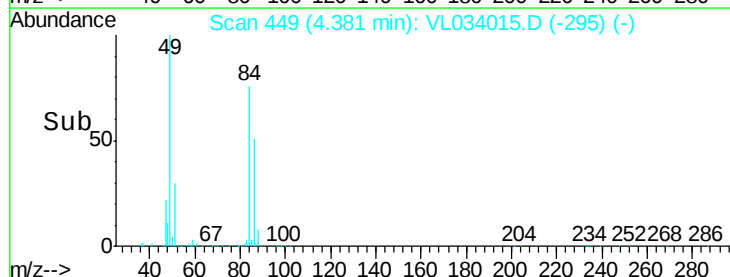
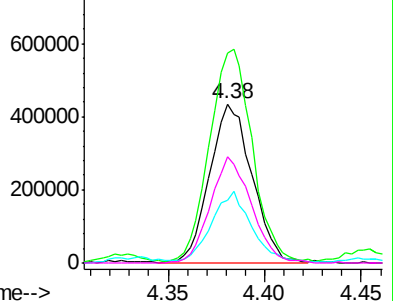


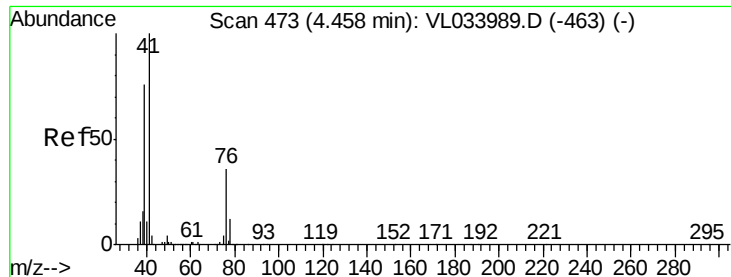
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

Allvl Chloride

Concen: 9.573 ppbv

RT: 4.45 min Scan# 471

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

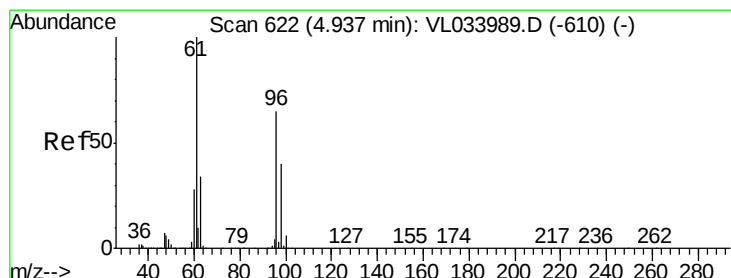
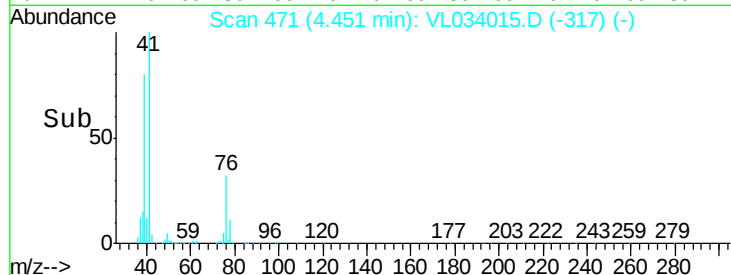
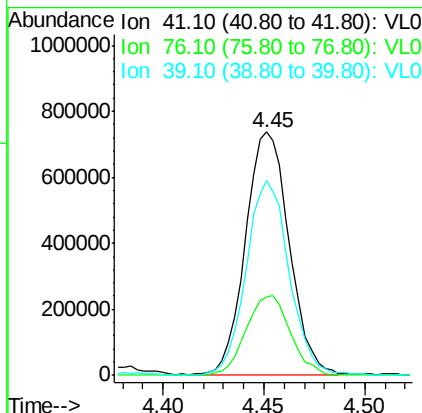
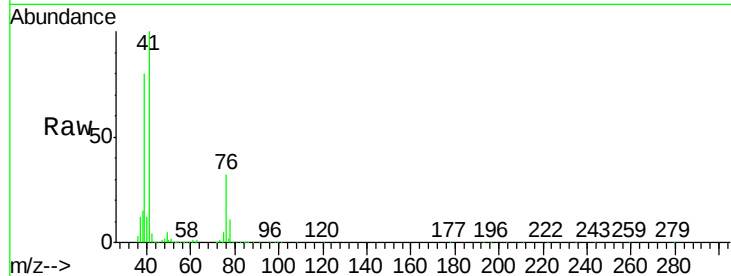
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	1111115
Ion	Ratio	Lower	Upper
41	100		
76	33.7	26.8	40.2
39	79.7	63.1	94.7

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 10.448 ppbv

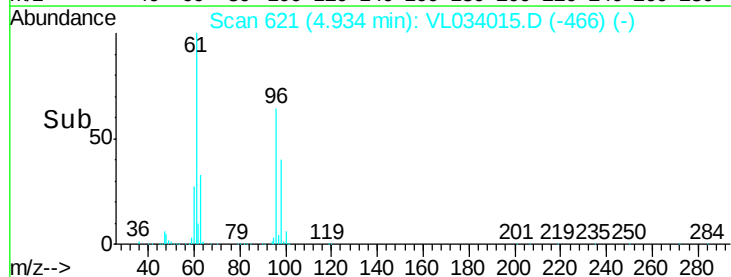
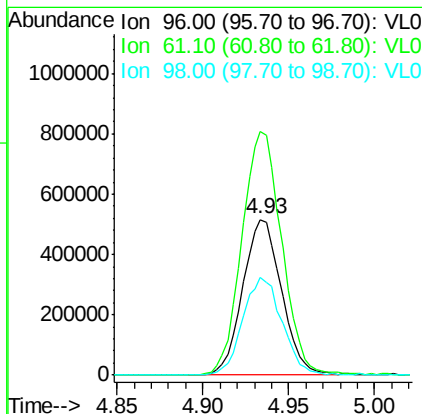
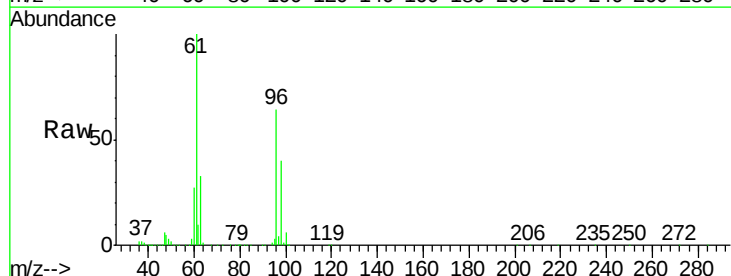
RT: 4.93 min Scan# 621

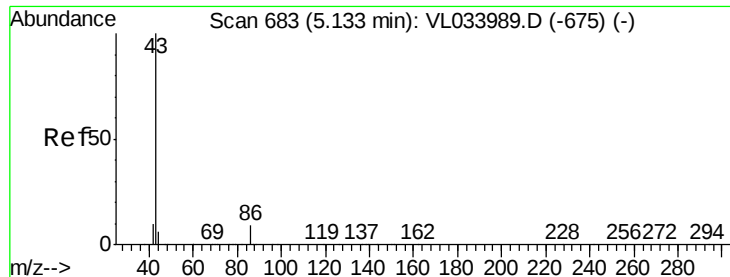
Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Tgt Ion:	96	Resp:	806381
Ion	Ratio	Lower	Upper
96	100		
61	156.6	122.9	184.3
98	63.0	49.6	74.4





#23

Vinyl Acetate

Concen: 10.887 ppbv

RT: 5.13 min Scan# 681

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2022849

Ion Ratio Lower Upper

43 100

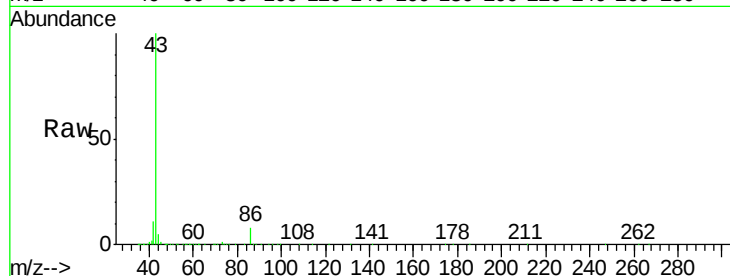
86 8.2 6.6 9.8

42 10.5 8.3 12.5

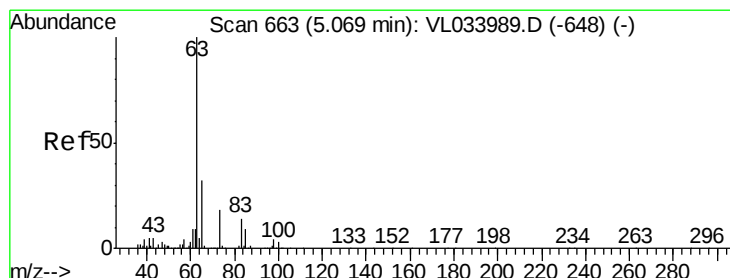
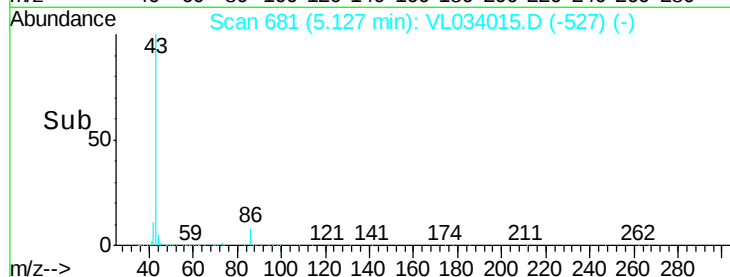
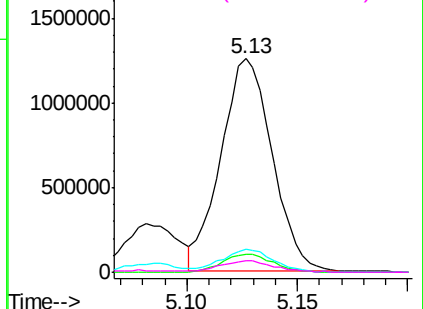
44 5.3 4.3 6.5

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.194 ppbv

RT: 5.07 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

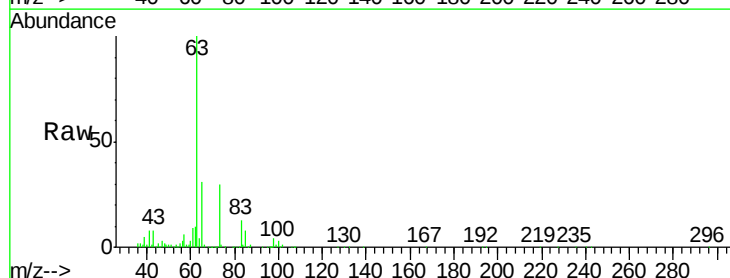
Tgt Ion: 63 Resp: 1678619

Ion Ratio Lower Upper

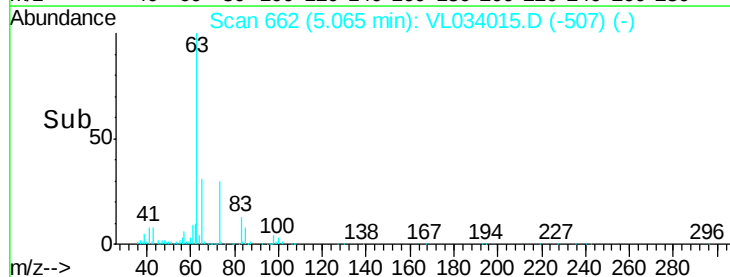
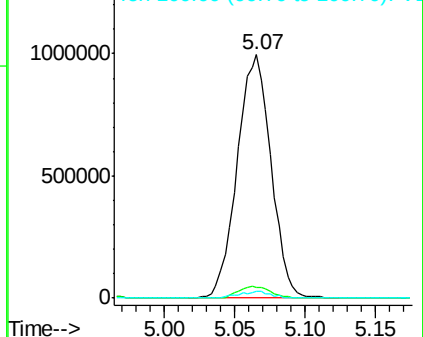
63 100

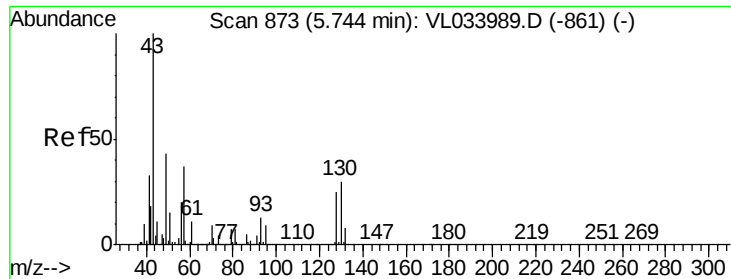
98 4.4 2.2 6.6

100 2.7 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





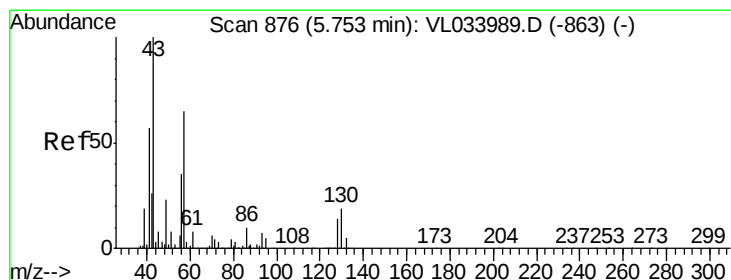
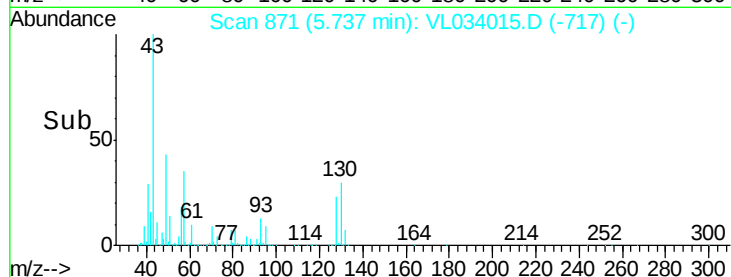
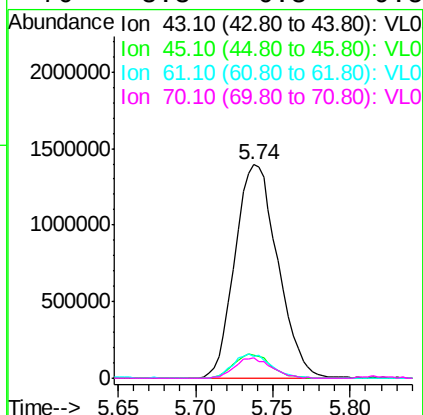
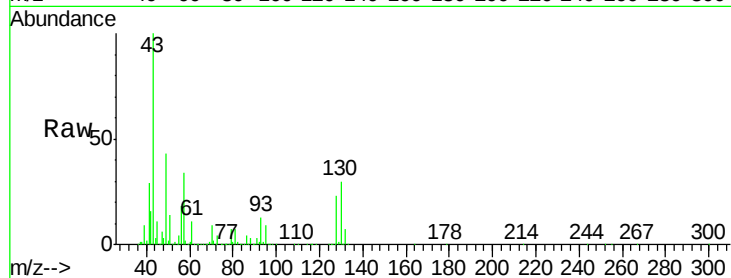
#25
Ethyl Acetate
Concen: 10.501 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.0	8.1	12.1	
61	10.1	8.1	12.1	
70	8.3	6.3	9.5	

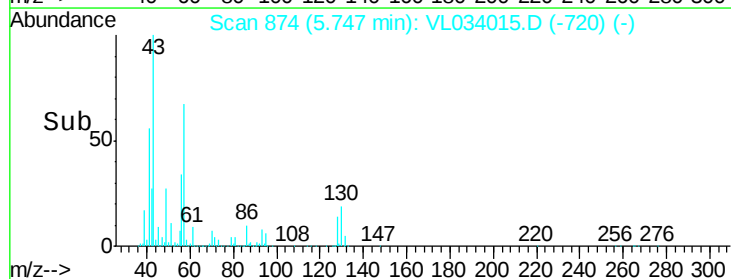
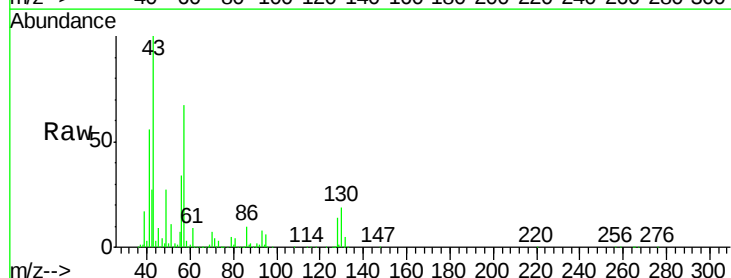
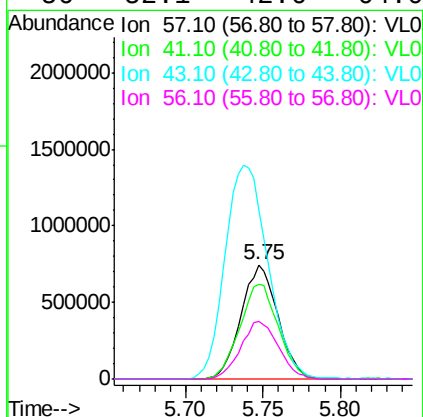
Manual Integrations
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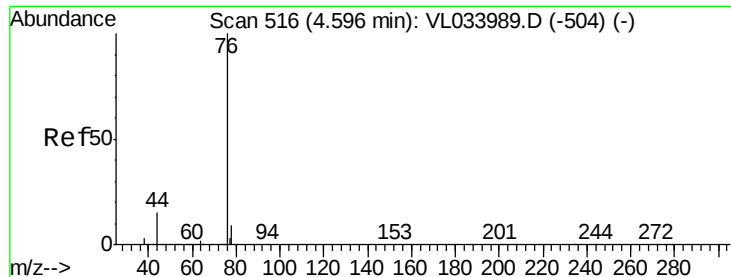
MMDadoda
7/10/2019 8:50:12 AM



#26
Hexane
Concen: 10.537 ppbv
RT: 5.75 min Scan# 874
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	87.7	70.6	105.8	
43	219.0	177.6	266.4	
56	52.1	42.6	64.0	





#27

Carbon Disulfide

Concen: 10.036 ppbv

RT: 4.59 min Scan# 515

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1988026

Ion Ratio Lower Upper

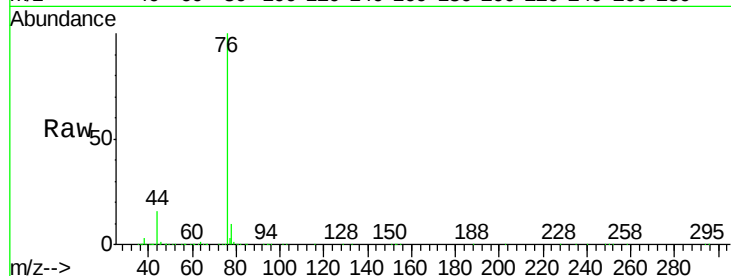
76 100

44 15.7 12.6 18.8

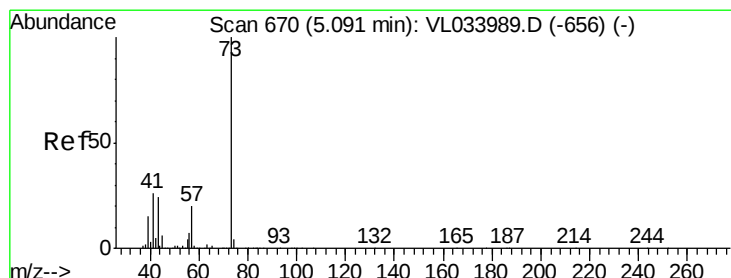
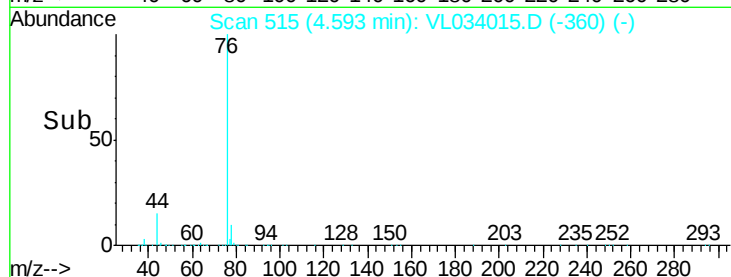
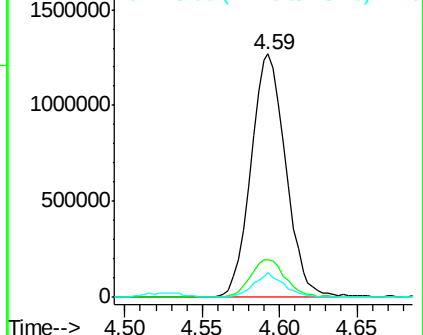
78 8.9 7.2 10.8

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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: 10.658 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL034015.D

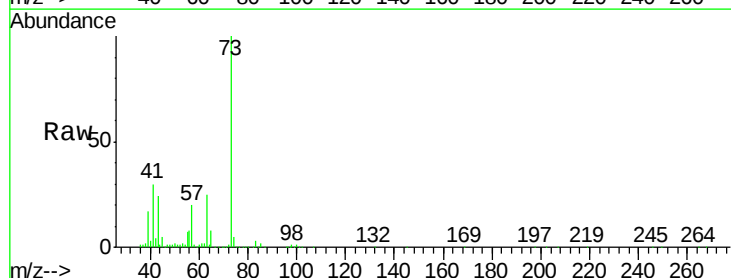
Acq: 8 Jul 2019 17:19

Tgt Ion: 73 Resp: 2103129

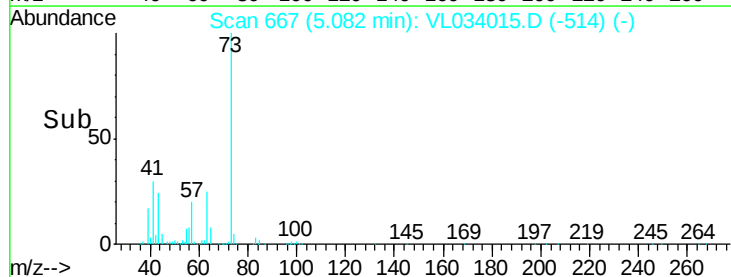
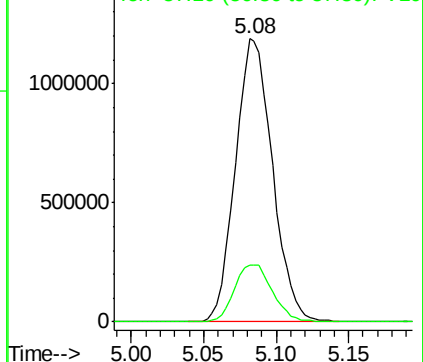
Ion Ratio Lower Upper

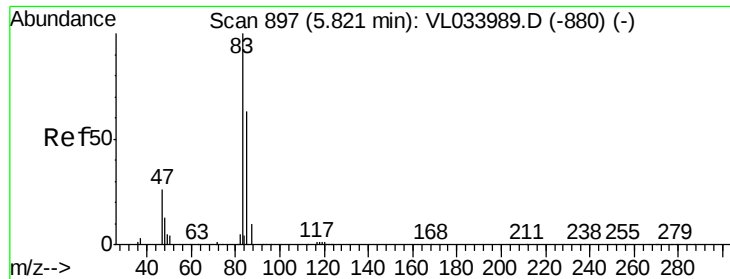
73 100

57 21.1 16.9 25.3



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





#29

Chloroform

Concen: 9.760 ppbv

RT: 5.82 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Tot Ion: 83 Resp: 2137111

Ion Ratio Lower Upper

83 100

85 62.2 50.6 75.8

Instrument :

MSVOA_L

ClientSampleId :

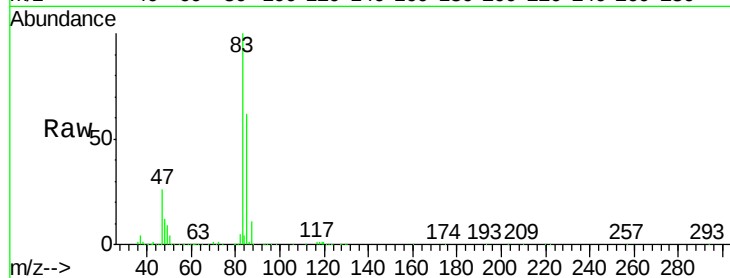
VSTDCCC010EC

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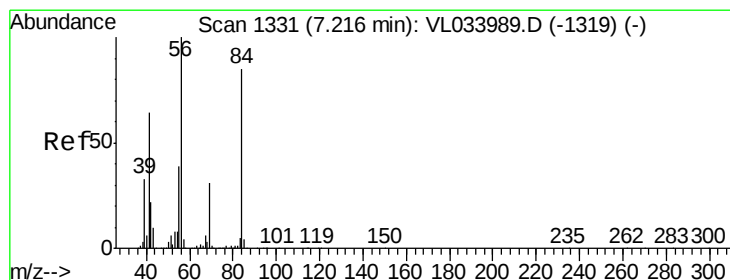
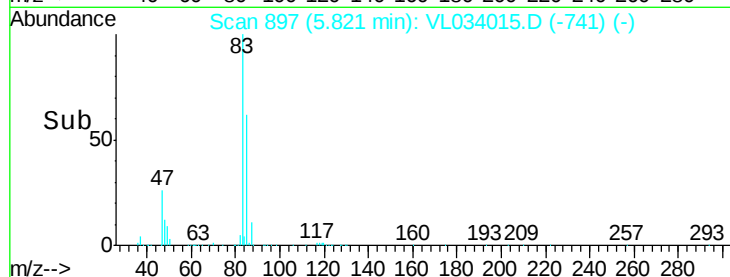
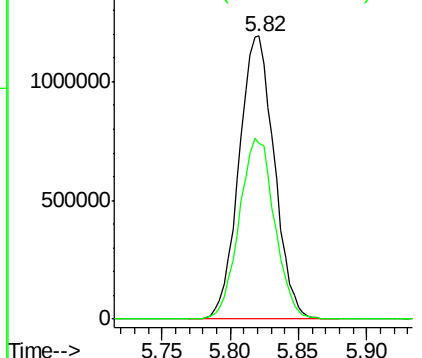
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 11.418 ppbv

RT: 7.21 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

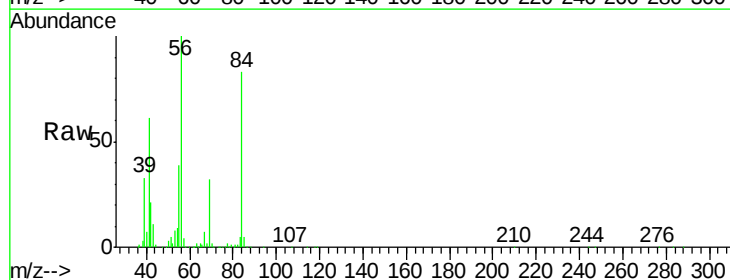
Tgt Ion: 84 Resp: 1027469

Ion Ratio Lower Upper

84 100

56 125.3 103.7 155.5

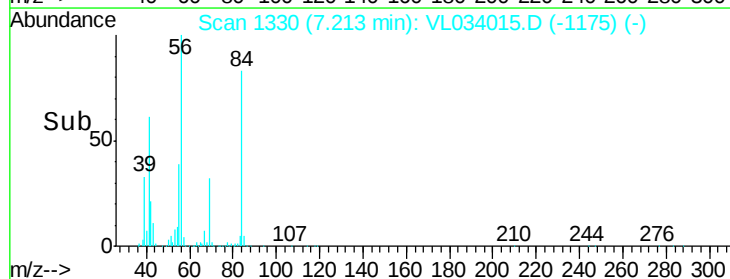
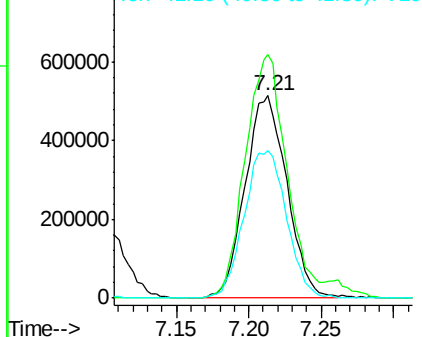
41 74.5 62.6 94.0

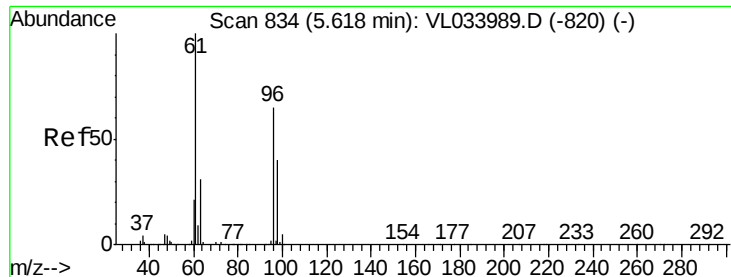


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

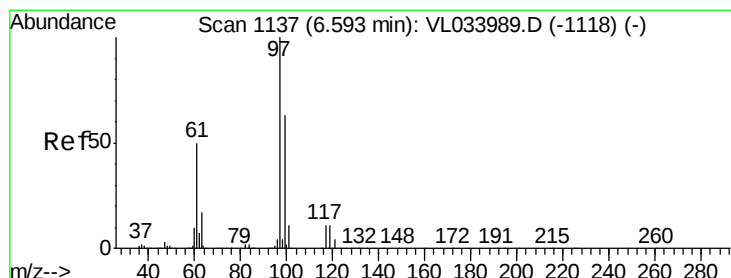
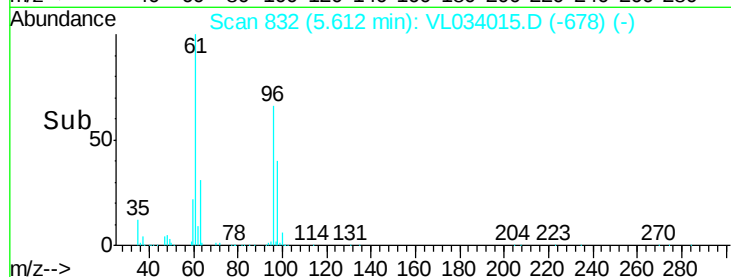
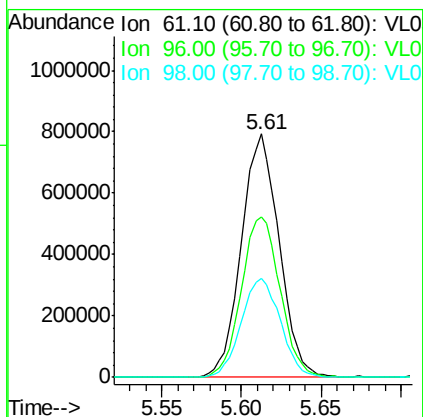
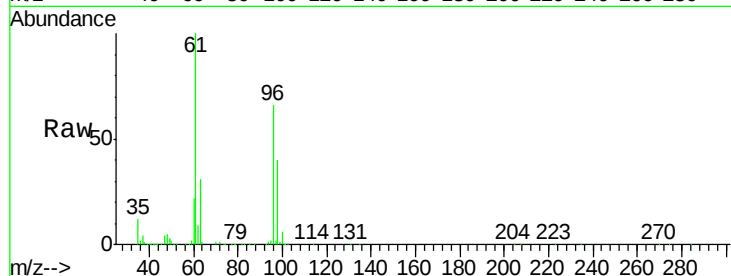
cis-1,2-Dichloroethene
Concen: 11.318 ppbv
RT: 5.61 min Scan# 832
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.7	51.8	77.6
98	40.4	32.1	48.1

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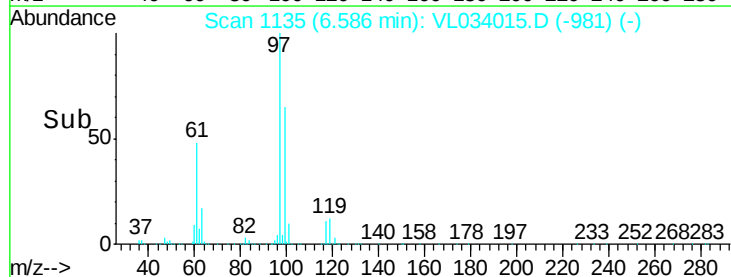
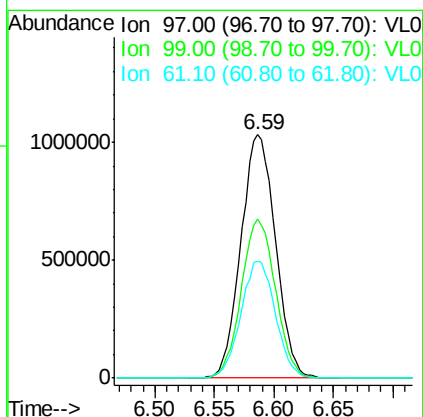
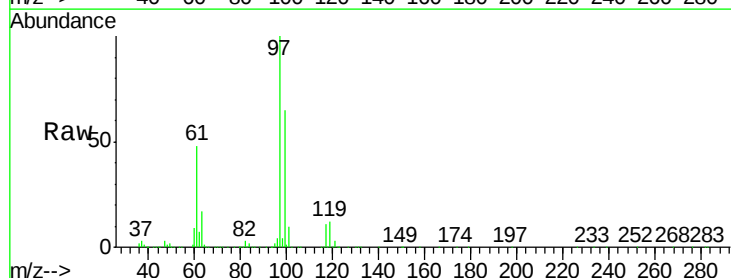
MMDadoda
7/10/2019 8:50:12 AM

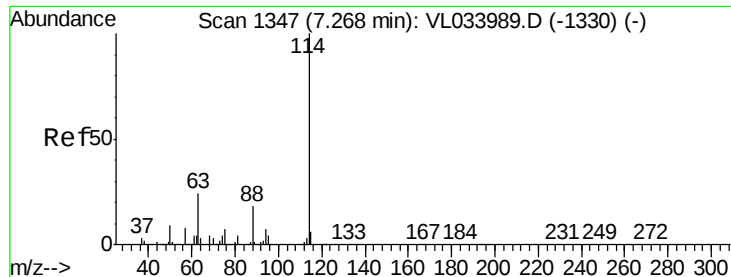


#32

1,1,1-Trichloroethane
Concen: 9.380 ppbv
RT: 6.59 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.9	77.9
61	47.9	39.8	59.8





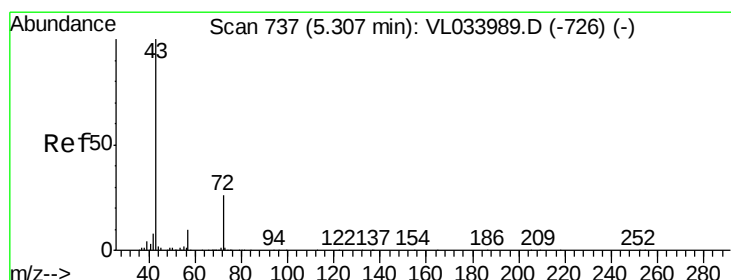
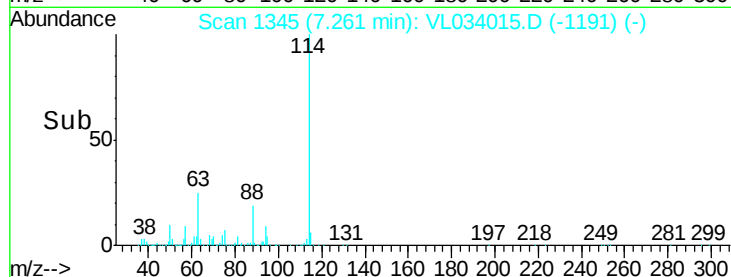
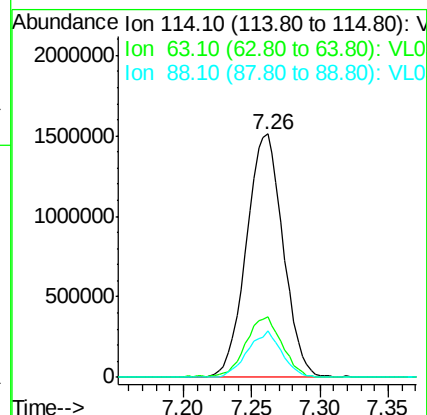
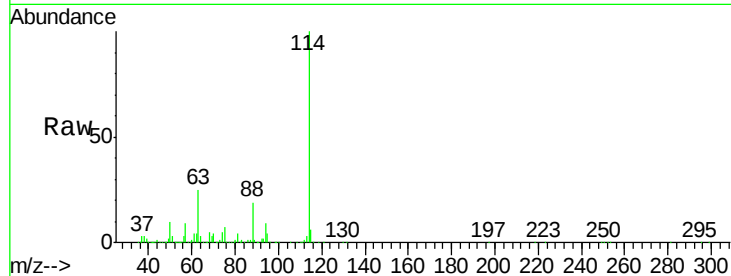
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.26 min Scan# 1345
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.2
88	17.7	14.1	21.1

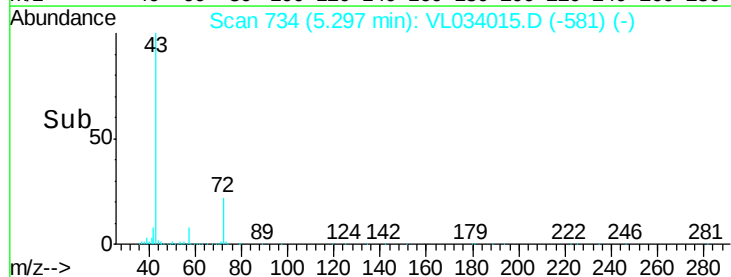
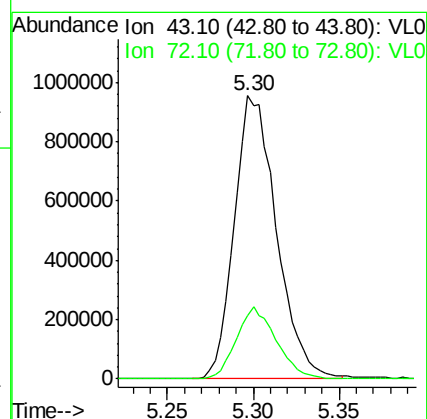
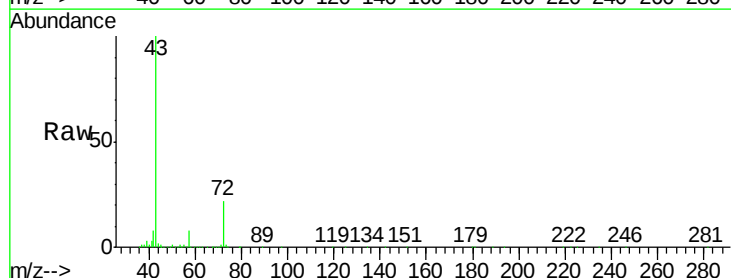
Manual Integrations
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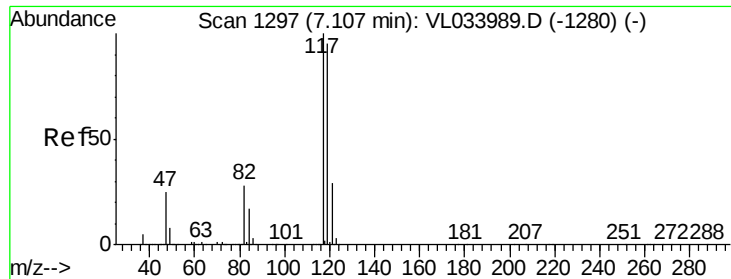
MMDadoda
 7/10/2019 8:50:12 AM



#34
 2-Butanone
 Concen: 10.828 ppbv
 RT: 5.30 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.3	19.9	29.9





#35

Carbon Tetrachloride

Concen: 9.987 ppbv

RT: 7.10 min Scan# 1295

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 2230970

Ion Ratio Lower Upper

117 100

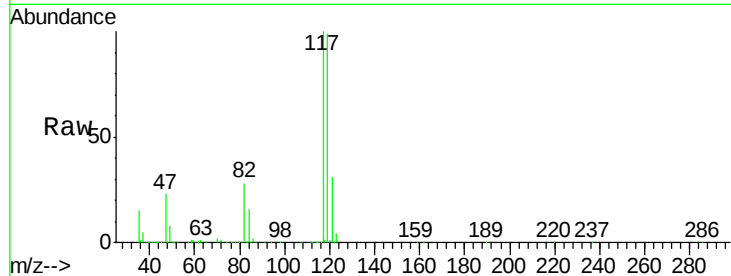
119 98.7 75.8 113.6

121 30.5 23.4 35.2

Manual Integrations
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MMDadoda

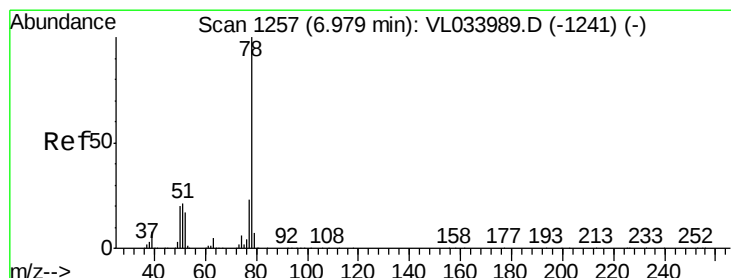
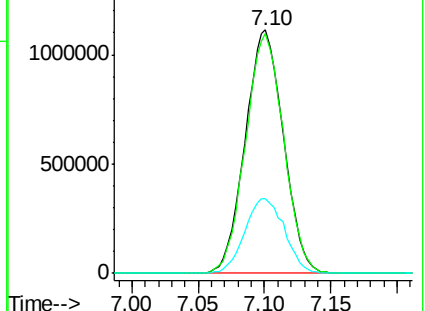
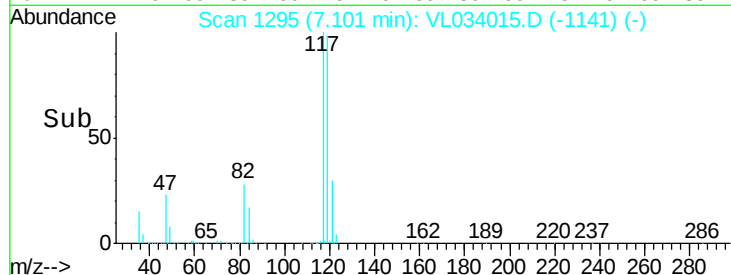
7/10/2019 8:50:12 AM



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: 11.271 ppbv

RT: 6.97 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

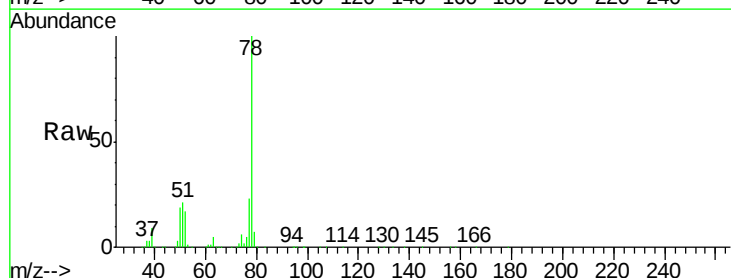
Tgt Ion: 78 Resp: 2488556

Ion Ratio Lower Upper

78 100

77 23.5 18.7 28.1

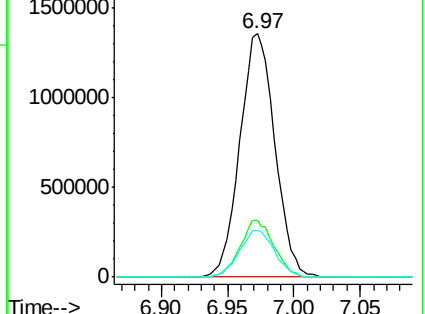
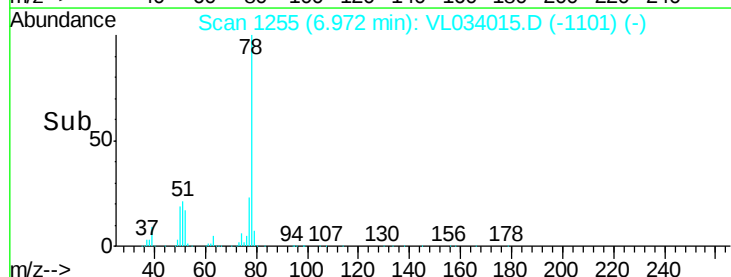
50 19.2 16.2 24.2

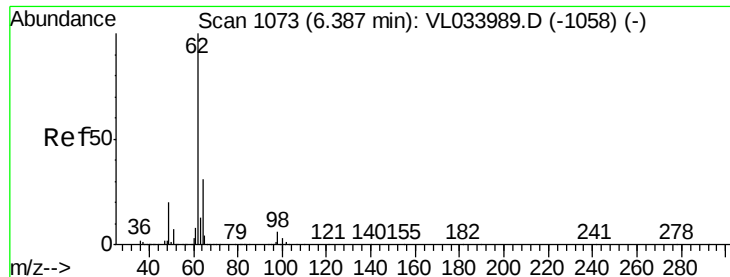


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





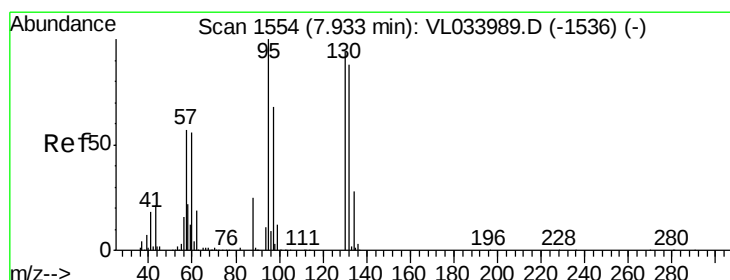
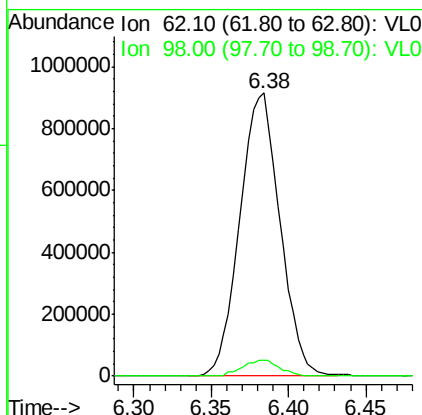
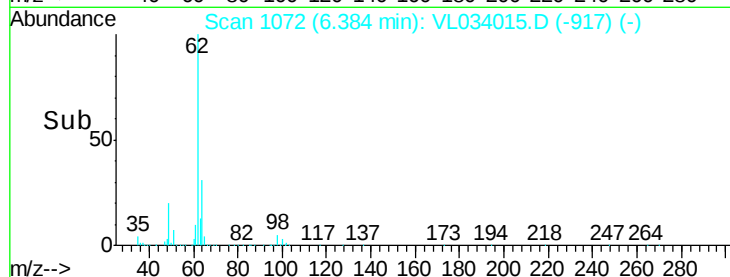
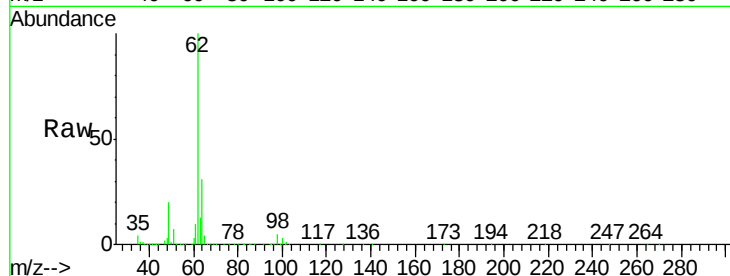
#37
 1,2-Dichloroethane
 Concen: 10.158 ppbv
 RT: 6.38 min Scan# 1072
 Delta R.T. -0.00 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1652298
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.4 6.6

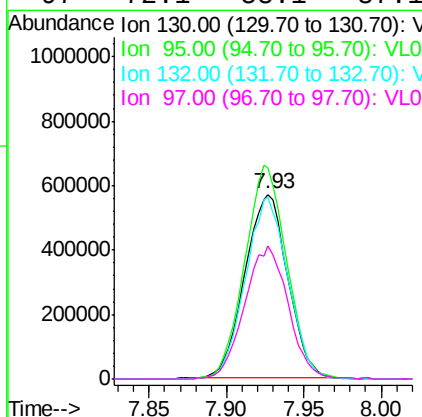
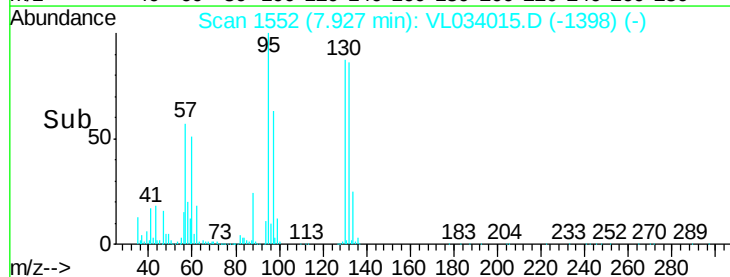
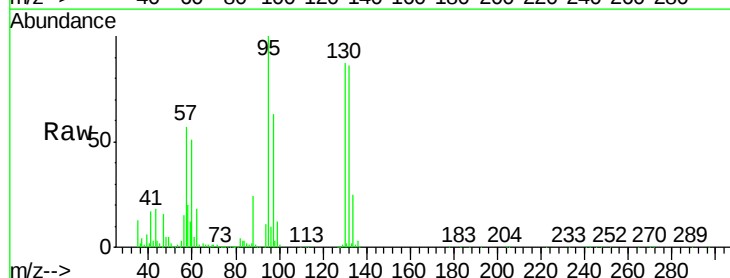
Manual Integrations
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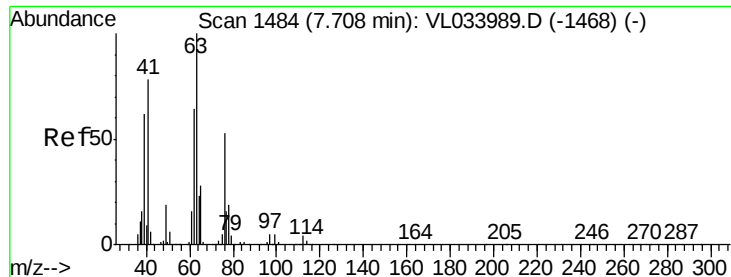
MMDadoda
 7/10/2019 8:50:12 AM



#38
 Trichloroethene
 Concen: 11.183 ppbv
 RT: 7.93 min Scan# 1552
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Tgt Ion: 130 Resp: 1098615
 Ion Ratio Lower Upper
 130 100
 95 114.8 85.5 128.3
 132 98.3 75.1 112.7
 97 72.1 58.1 87.1





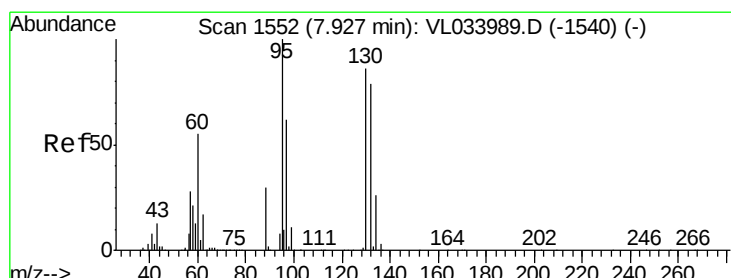
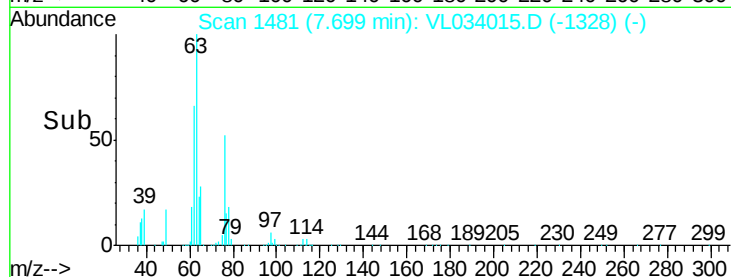
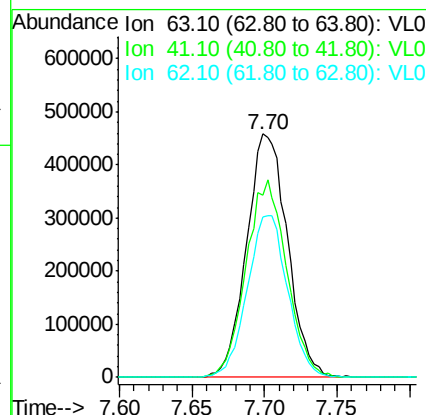
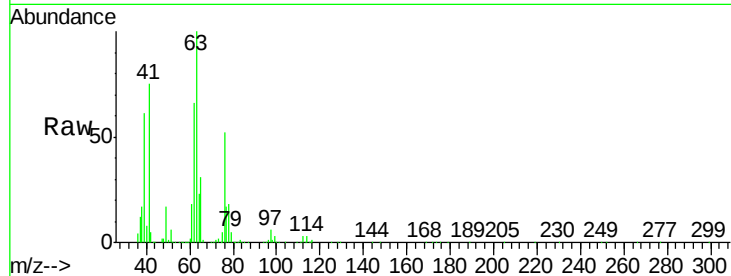
#39
 1,2-Dichloropropane
 Concen: 10.912 ppbv
 RT: 7.70 min Scan# 1481
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.0	62.3	93.5
62	65.7	51.4	77.2

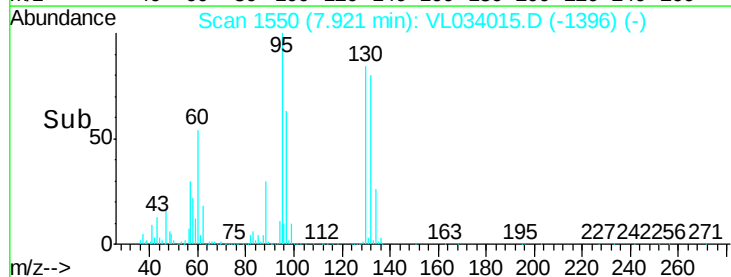
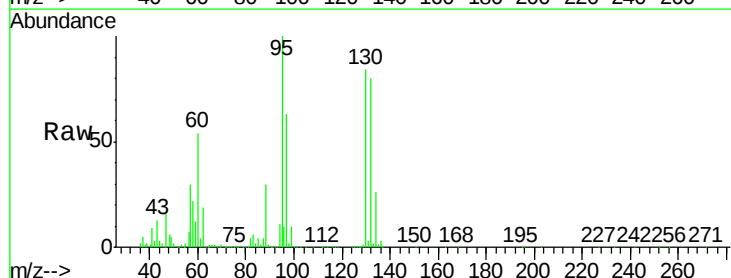
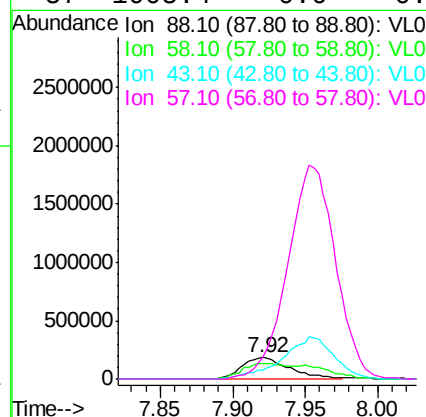
Manual Integrations
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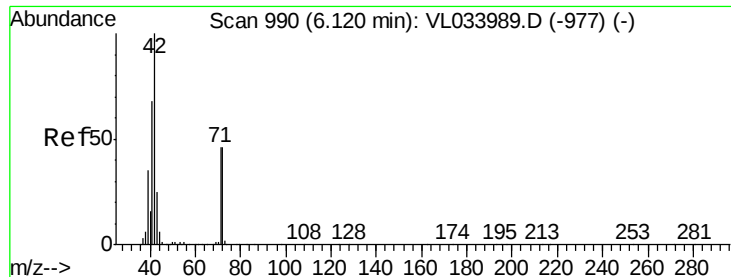
MMDadoda
 7/10/2019 8:50:12 AM



#40
 1,4-Dioxane
 Concen: 11.061 ppbv
 RT: 7.92 min Scan# 1550
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Tgt Ion	Ratio	Lower	Upper
88	100		
58	118.8	99.1	148.7
43	215.8	0.0	0.0#
57	1005.4	0.0	0.0#





#41

Tetrahydrofuran

Concen: 11.366 ppbv

RT: 6.12 min Scan# 989

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

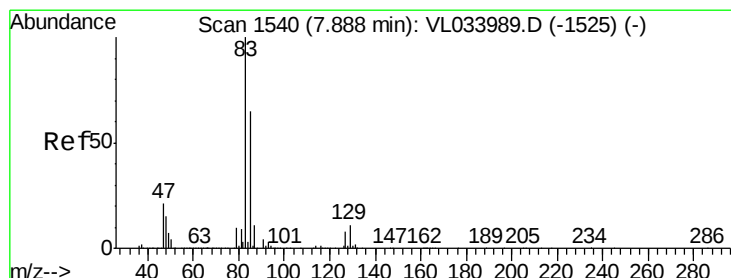
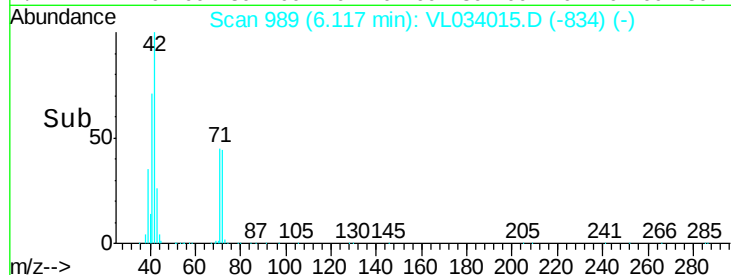
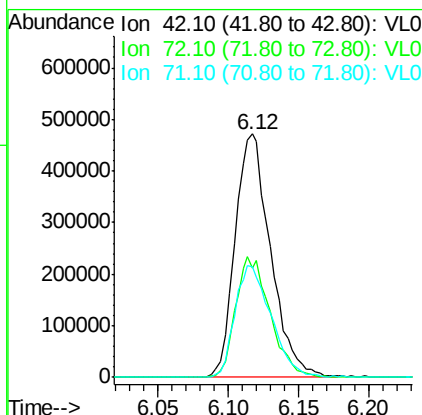
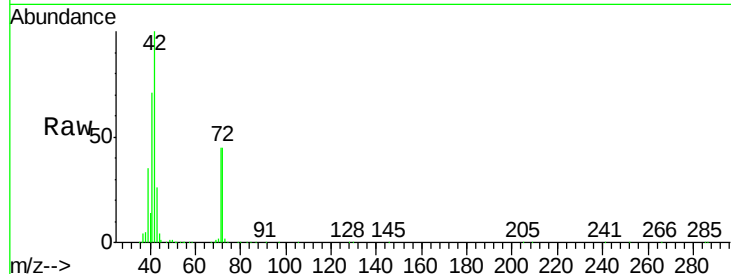
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	832417
Ion Ratio		Lower	Upper
42	100		
72	48.5	37.3	55.9
71	47.1	36.2	54.2

Manual Integrations
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MMDadoda
7/10/2019 8:50:12 AM



#42

Bromodichloromethane

Concen: 10.697 ppbv

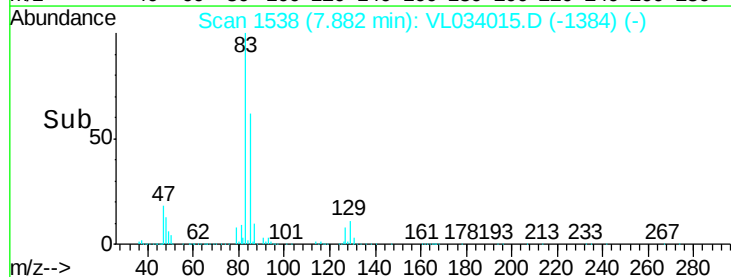
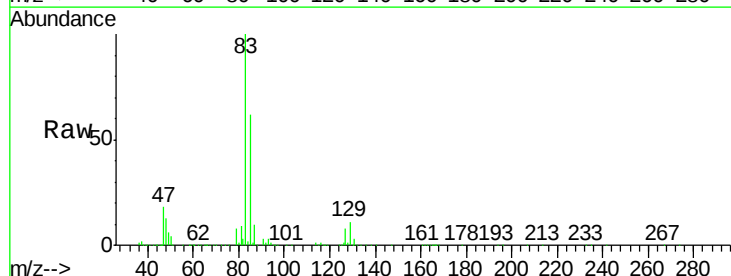
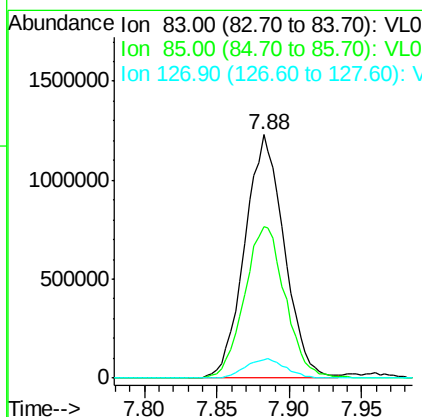
RT: 7.88 min Scan# 1538

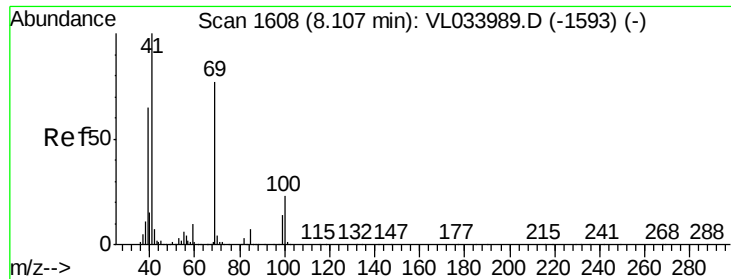
Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Tgt Ion:	83	Resp:	2334735
Ion Ratio		Lower	Upper
83	100		
85	62.2	51.8	77.8
127	7.7	6.5	9.7





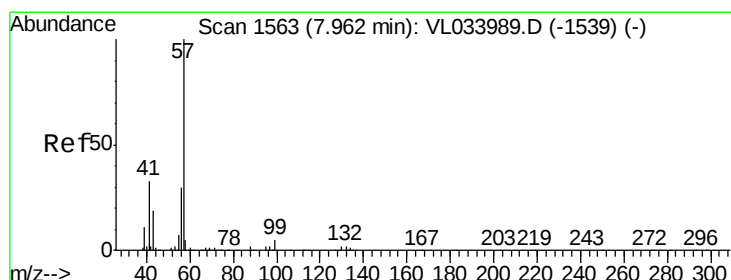
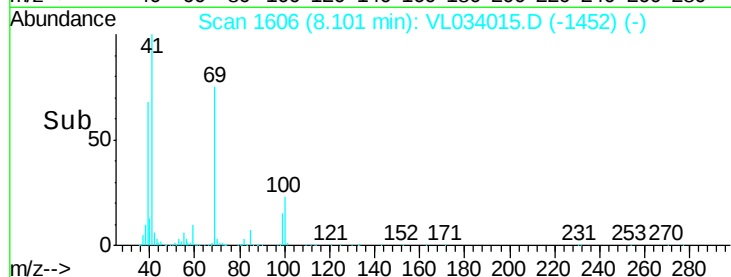
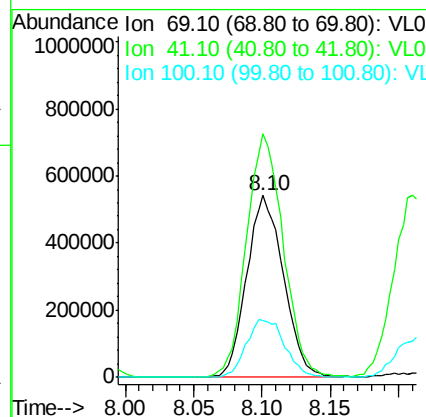
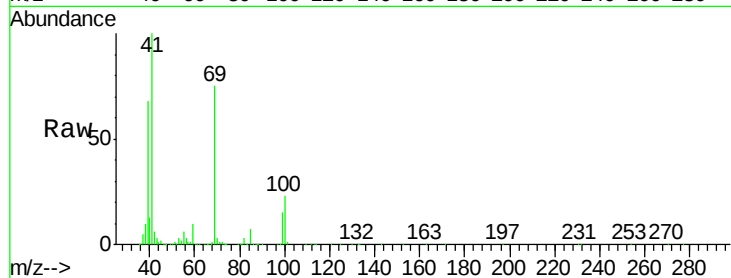
#43
Methvl Methacrvlate
Concen: 12.144 ppbv
RT: 8.10 min Scan# 1606
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1017347
Ion Ratio Lower Upper
69 100
41 133.7 109.1 163.7
100 33.1 25.3 37.9

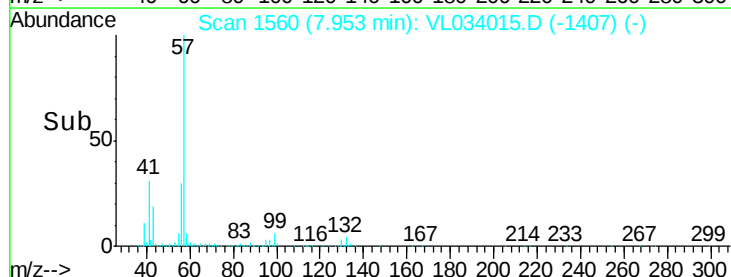
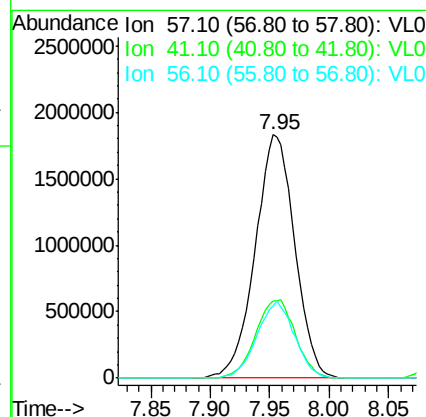
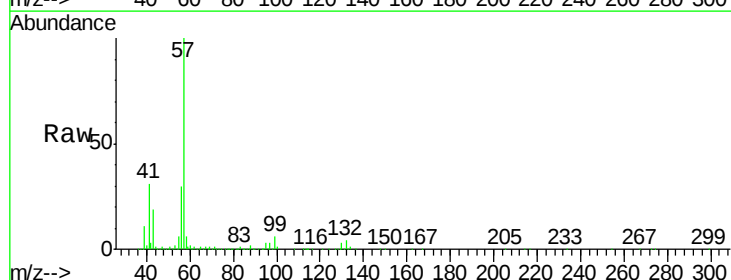
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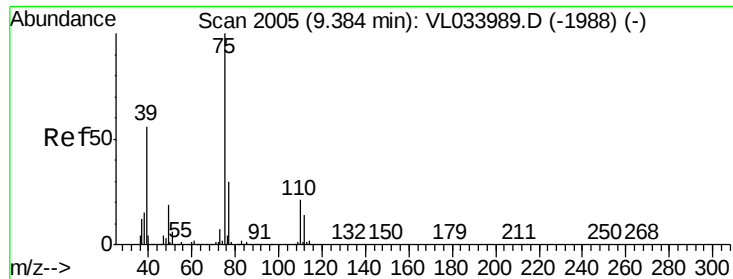
MMDadoda
7/10/2019 8:50:12 AM



#44
2,2,4-Trimethylpentane
Concen: 11.045 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion: 57 Resp: 4209621
Ion Ratio Lower Upper
57 100
41 32.5 26.1 39.1
56 30.0 24.4 36.6





#45

t-1,3-Dichloropropene

Concen: 12.889 ppbv

RT: 9.38 min Scan# 2003

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1411989

Ion Ratio Lower Upper

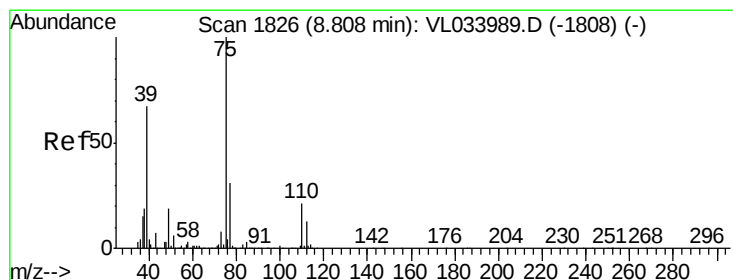
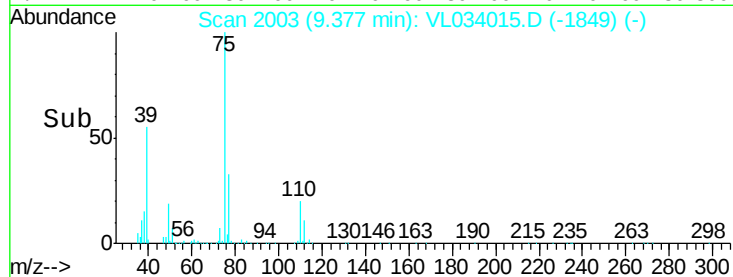
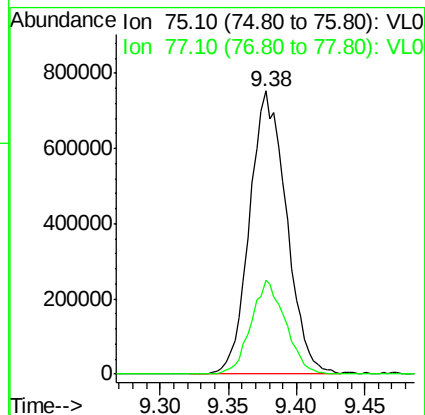
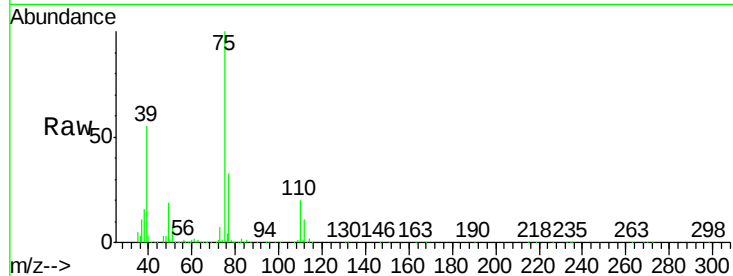
75 100

77 33.3 24.3 36.5

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#46

cis-1,3-Dichloropropene

Concen: 12.242 ppbv

RT: 8.80 min Scan# 1823

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

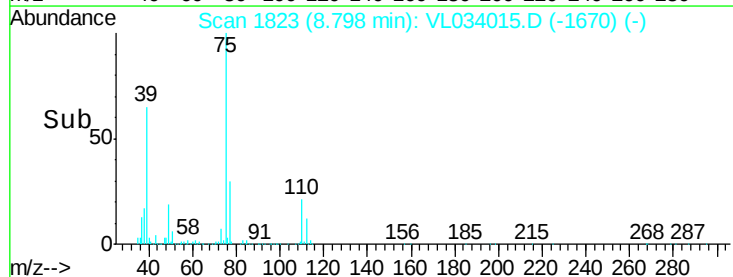
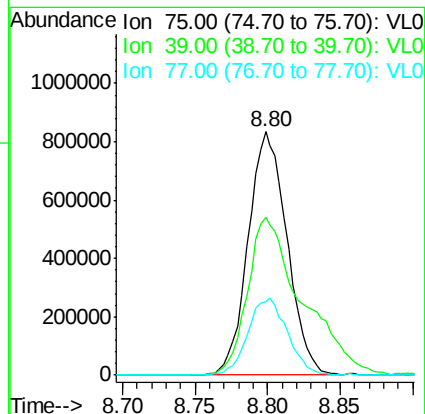
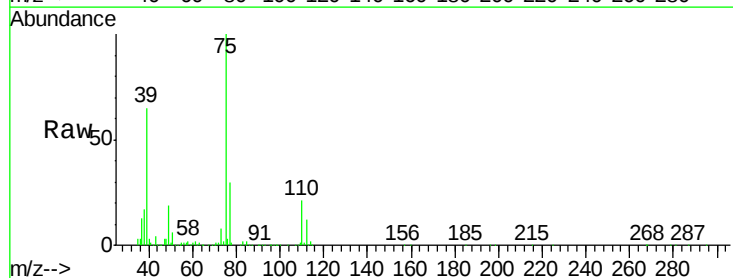
Tgt Ion: 75 Resp: 1553168

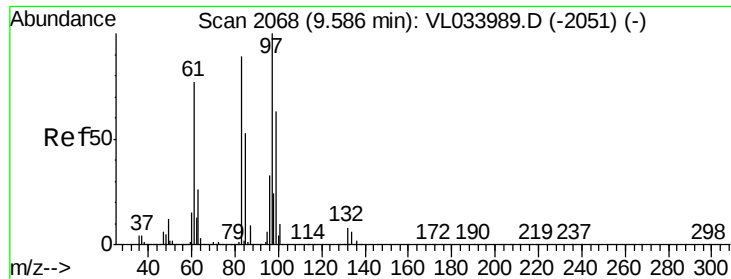
Ion Ratio Lower Upper

75 100

39 64.9 53.8 80.6

77 30.1 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 10.546 ppbv

RT: 9.58 min Scan# 2066

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1088615

Ion Ratio Lower Upper

97 100

83 86.0 71.1 106.7

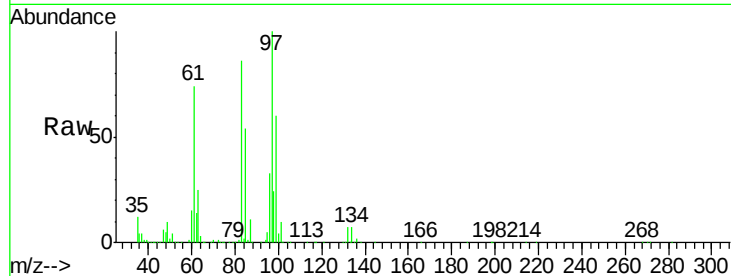
85 54.4 42.6 64.0

99 60.3 50.3 75.5

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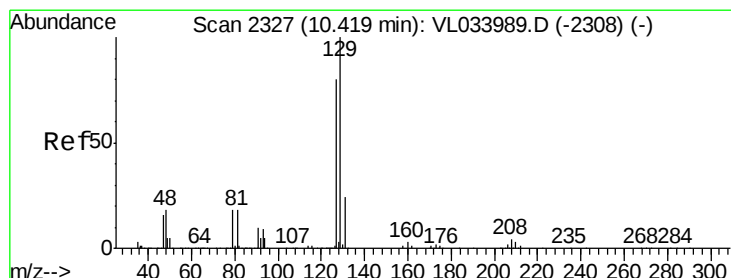
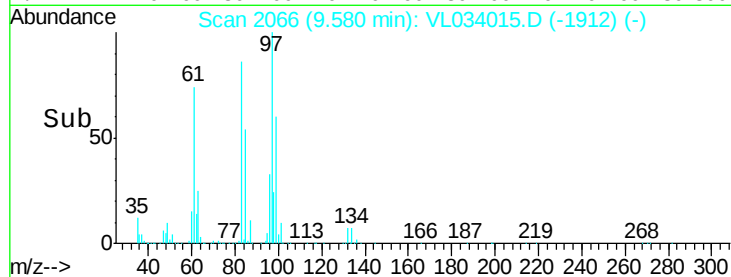
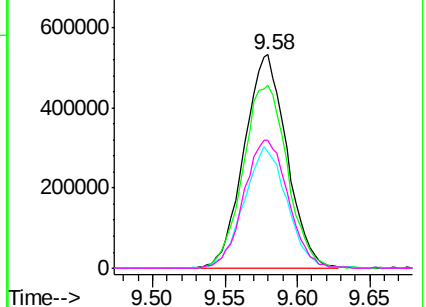


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.238 ppbv

RT: 10.41 min Scan# 2325

Delta R.T. -0.01 min

Lab File: VL034015.D

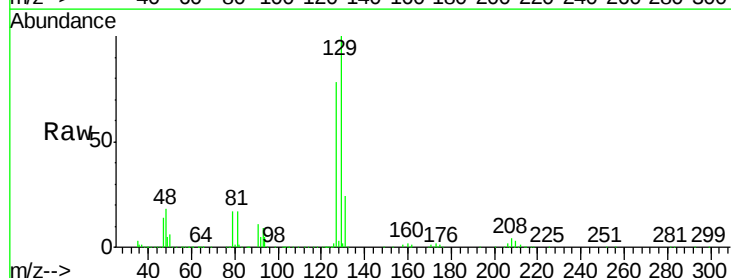
Acq: 8 Jul 2019 17:19

Tgt Ion: 129 Resp: 2016650

Ion Ratio Lower Upper

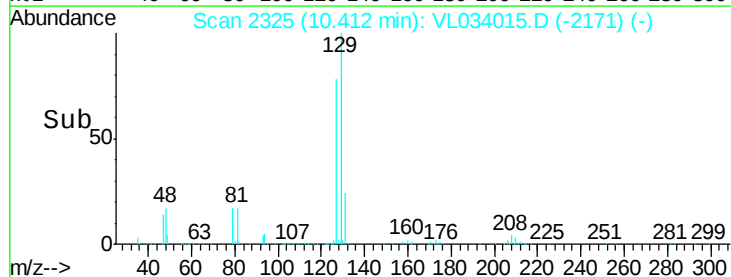
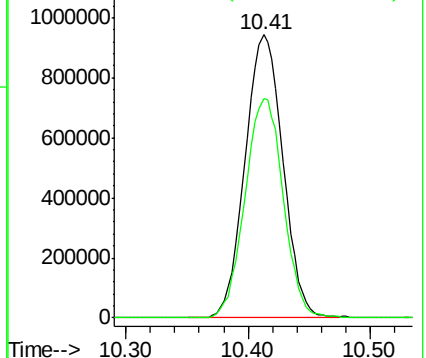
129 100

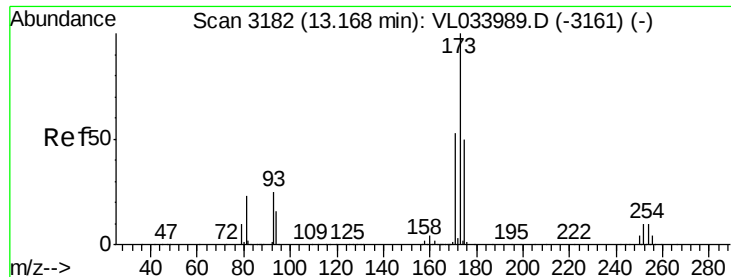
127 78.5 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.140 ppbv

RT: 13.16 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1874616

Ion Ratio Lower Upper

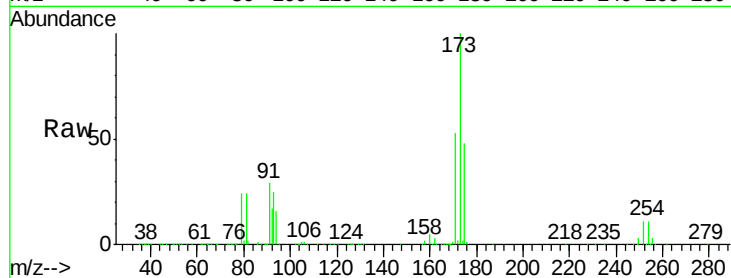
173 100

175 49.9 39.3 58.9

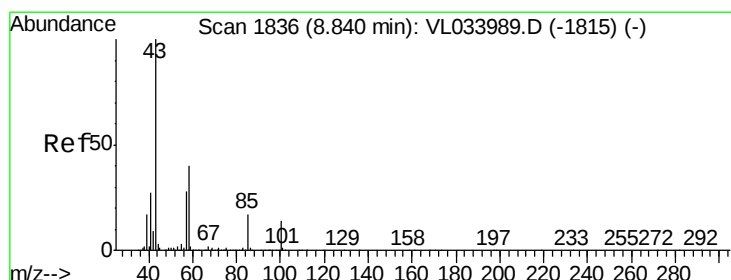
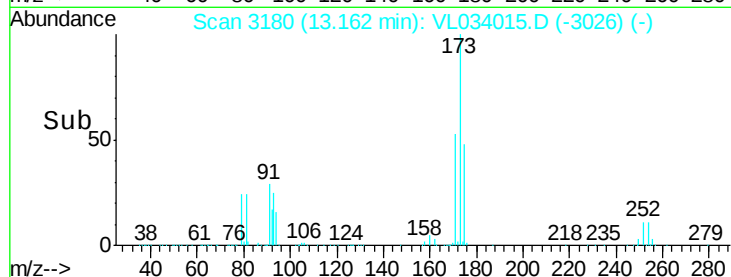
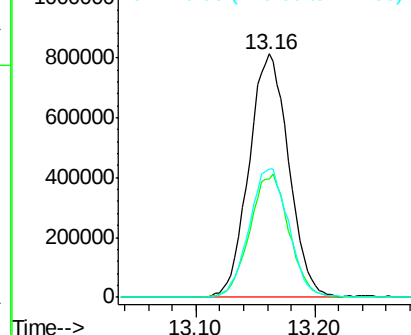
171 53.0 41.4 62.0

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



#50

4-Methyl-2-Pentanone

Concen: 10.948 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL034015.D

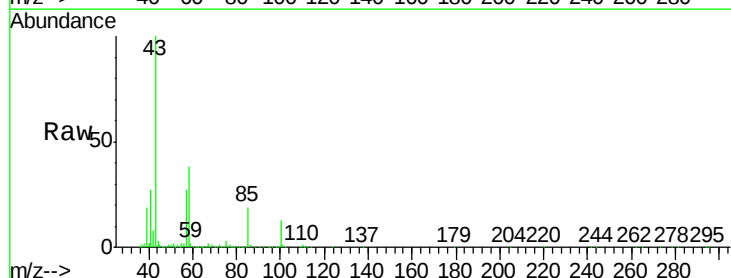
Acq: 8 Jul 2019 17:19

Tgt Ion: 43 Resp: 2426266

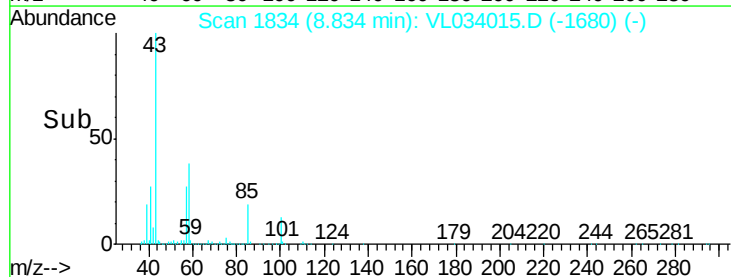
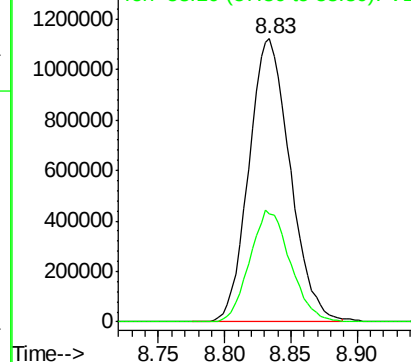
Ion Ratio Lower Upper

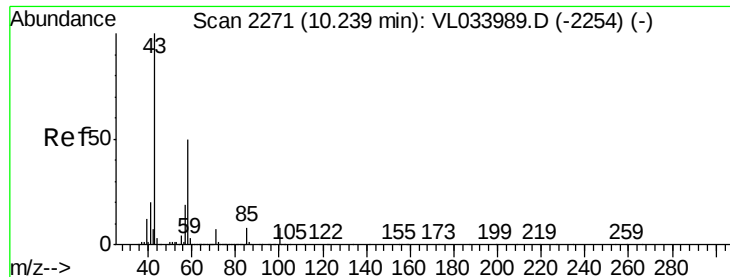
43 100

58 38.9 30.3 45.5



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





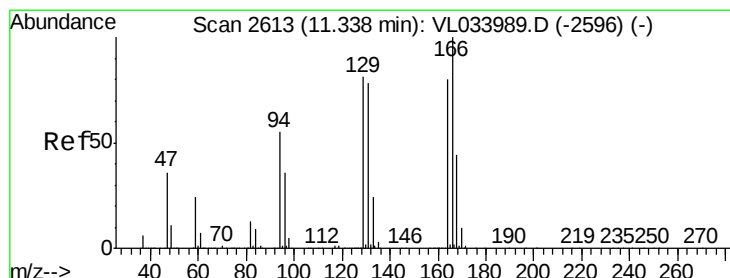
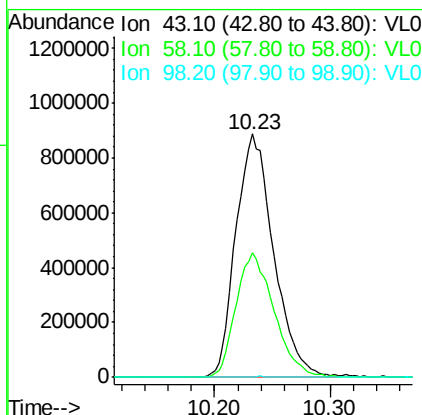
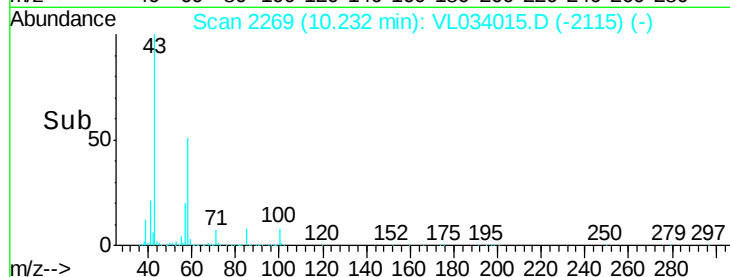
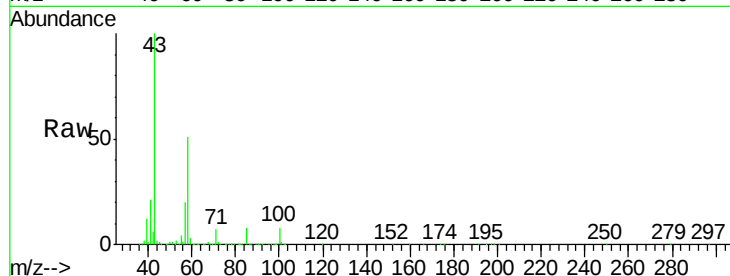
#51
2-Hexanone
Concen: 11.197 ppbv
RT: 10.23 min Scan# 2269
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2001218
Ion Ratio Lower Upper
43 100
58 52.0 41.0 61.4
98 0.3 0.2 0.2#

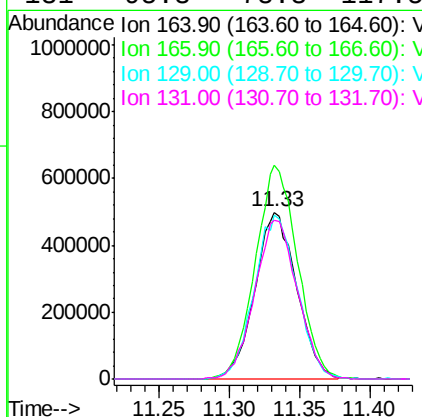
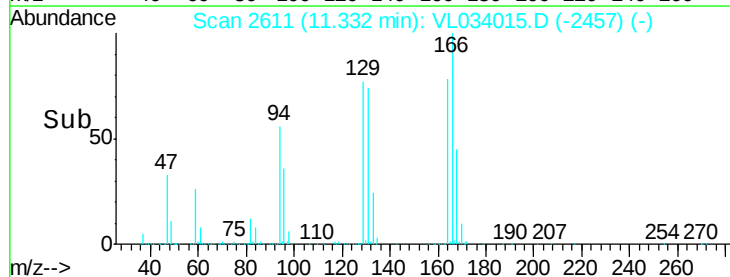
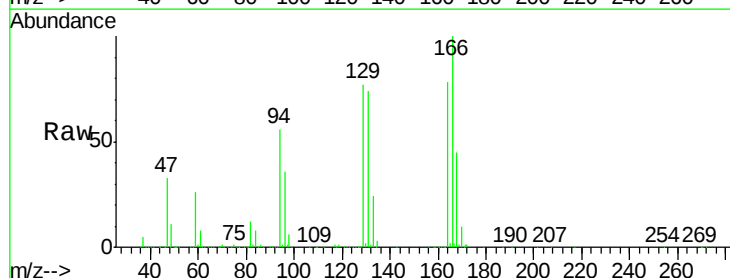
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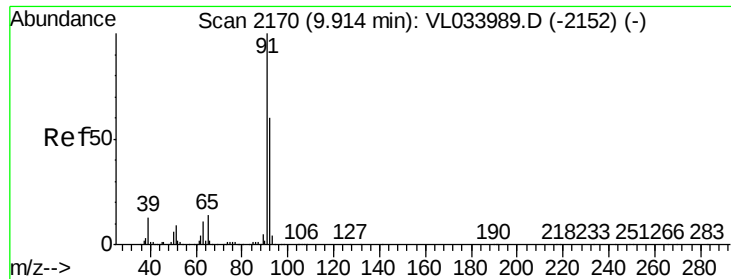
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#52
Tetrachloroethene
Concen: 10.832 ppbv
RT: 11.33 min Scan# 2611
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion: 164 Resp: 1029370
Ion Ratio Lower Upper
164 100
166 128.3 100.2 150.2
129 98.2 81.0 121.6
131 95.3 78.3 117.5





#53

Toluene

Concen: 11.975 ppbv

RT: 9.91 min Scan# 2168

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3026759

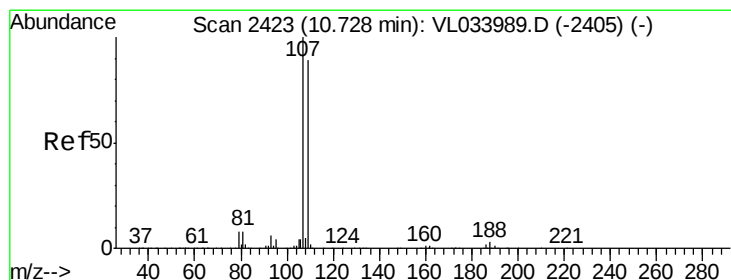
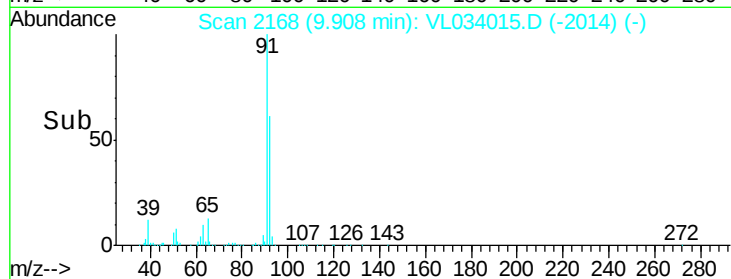
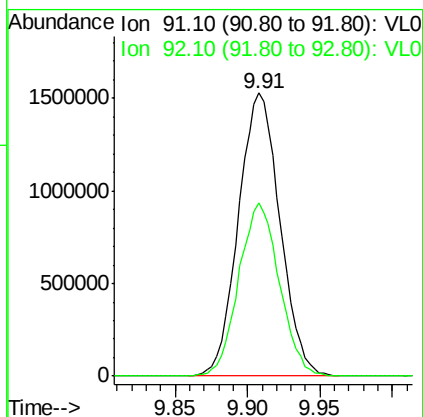
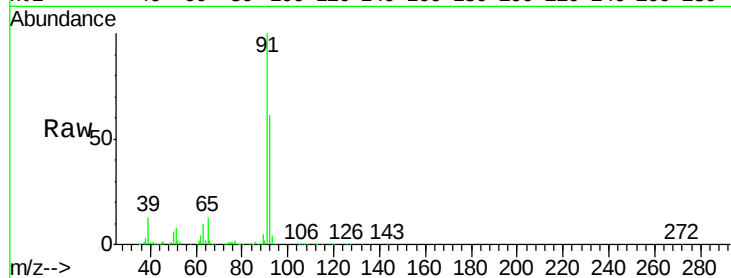
Ion Ratio Lower Upper

91 100

92 60.2 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 11.087 ppbv

RT: 10.72 min Scan# 2420

Delta R.T. -0.01 min

Lab File: VL034015.D

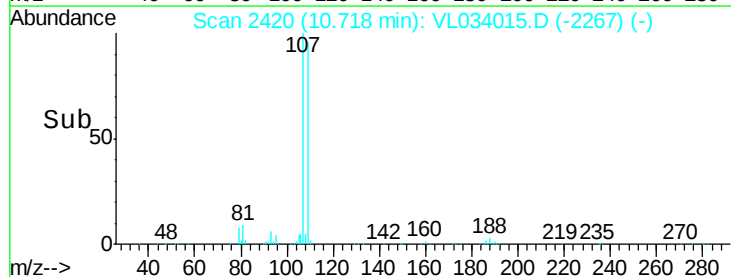
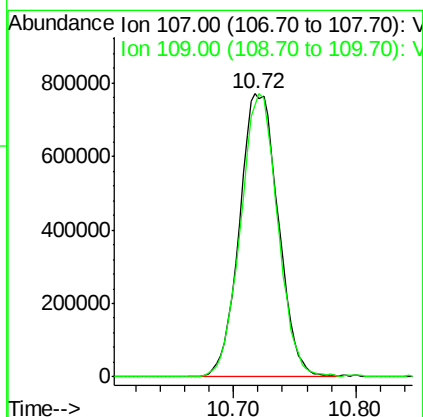
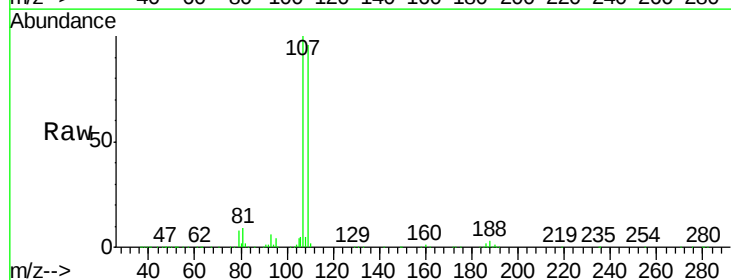
Acq: 8 Jul 2019 17:19

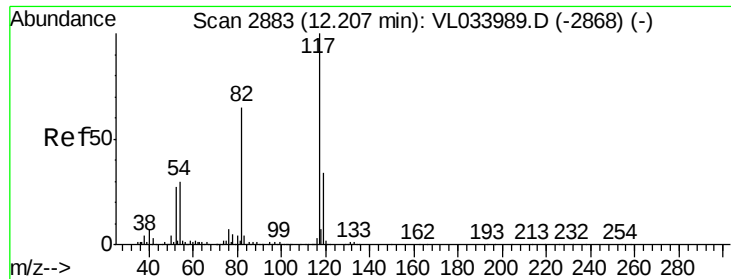
Tgt Ion: 107 Resp: 1688988

Ion Ratio Lower Upper

107 100

109 96.2 71.5 107.3





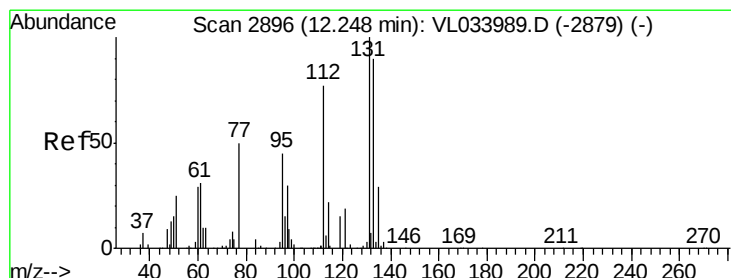
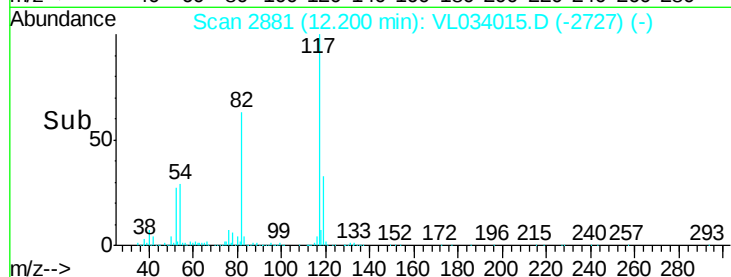
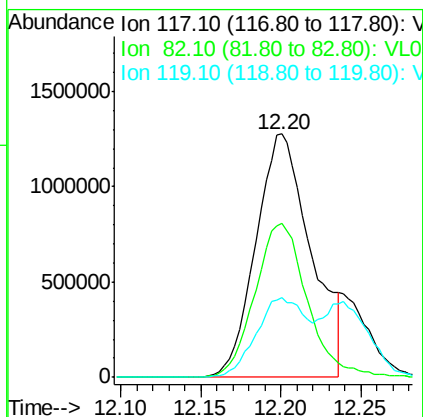
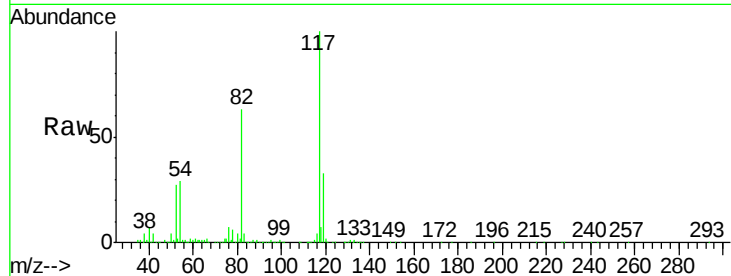
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.20 min Scan# 2881
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3041174
Ion Ratio Lower Upper
117 100
82 60.5 50.8 76.2
119 27.7 24.0 36.0

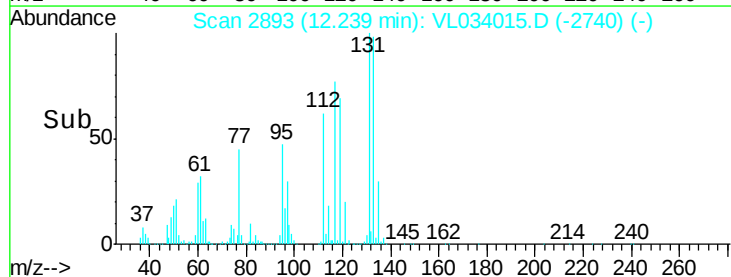
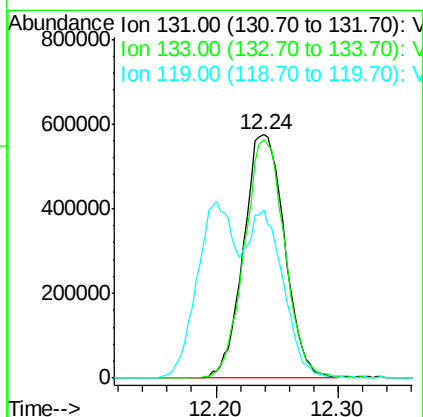
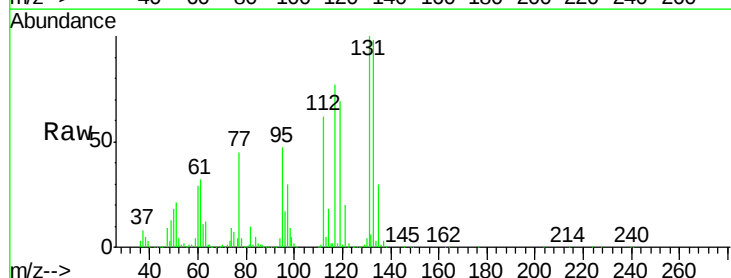
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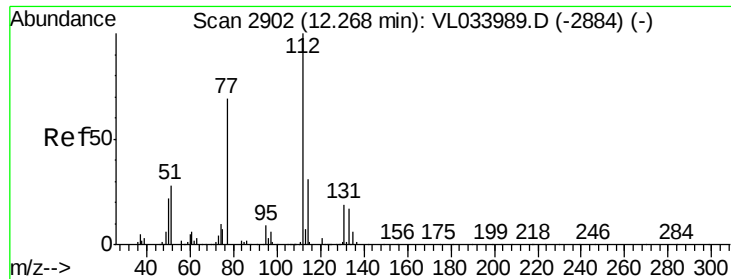
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.792 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion:131 Resp: 1330917
Ion Ratio Lower Upper
131 100
133 96.4 76.2 114.2
119 66.6 43.1 64.7#





#57

Chlorobenzene

Concen: 9.721 ppbv

RT: 12.26 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 2353610

Ion Ratio Lower Upper

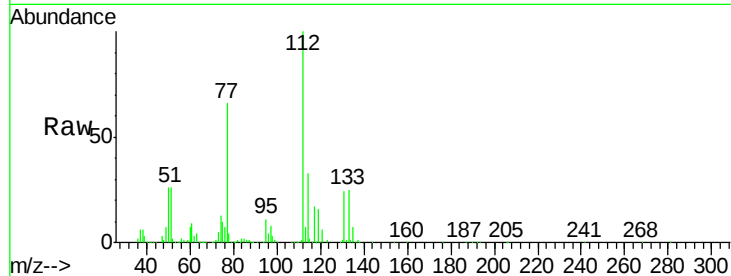
112 100

77 65.8 55.9 83.9

114 33.4 27.6 33.8

Manual Integrations
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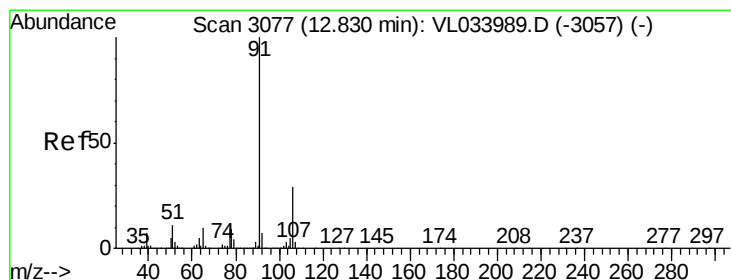
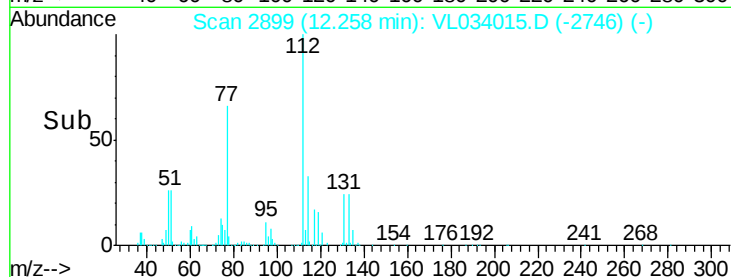
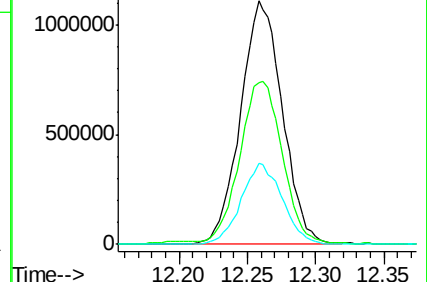
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.462 ppbv

RT: 12.82 min Scan# 3075

Delta R.T. -0.01 min

Lab File: VL034015.D

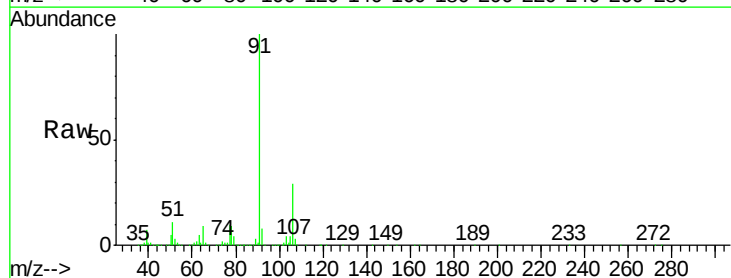
Acq: 8 Jul 2019 17:19

Tgt Ion: 91 Resp: 4191811

Ion Ratio Lower Upper

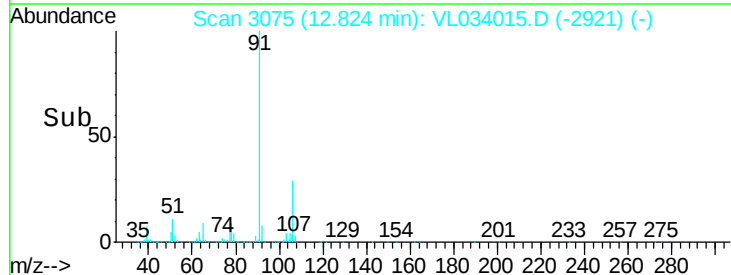
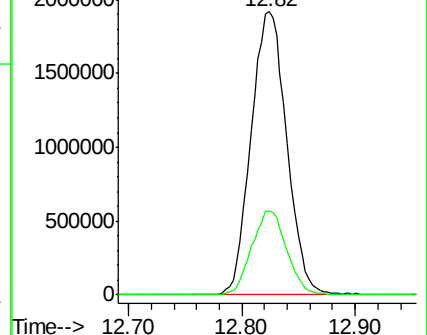
91 100

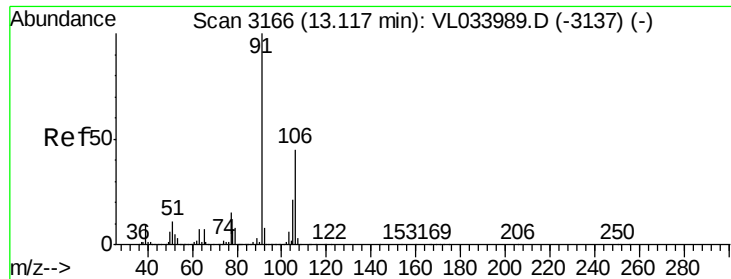
106 29.5 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





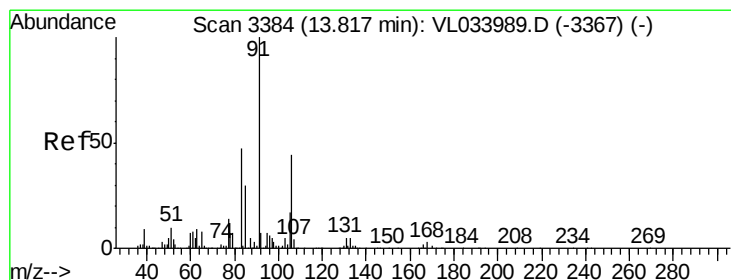
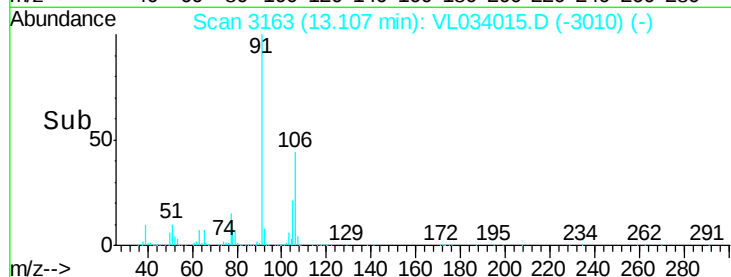
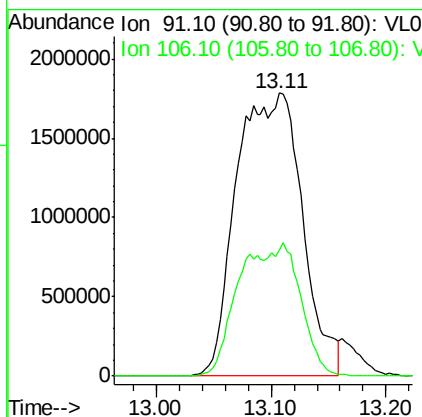
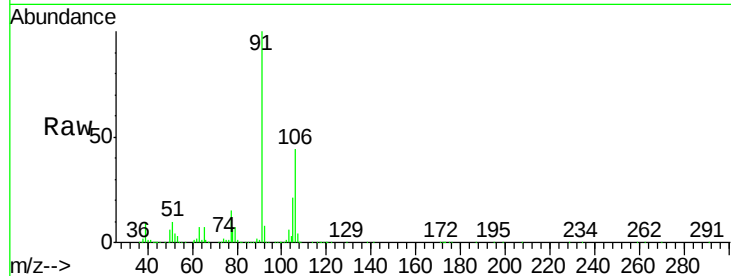
#59
m/p-Xylene
Concen: 21.406 ppbv m
RT: 13.11 min Scan# 3163
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7088445
Ion Ratio Lower Upper
91 100
106 44.3 35.7 53.5

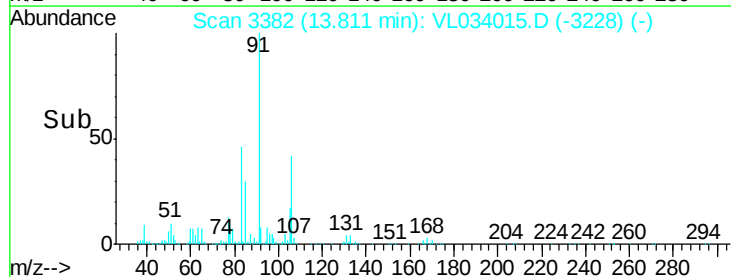
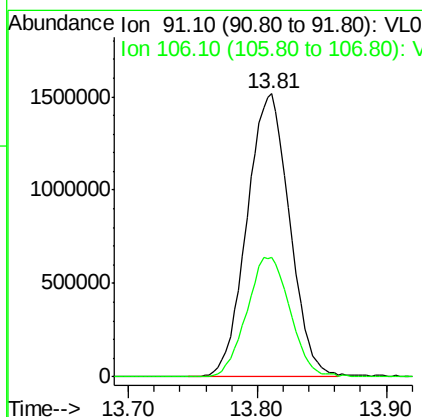
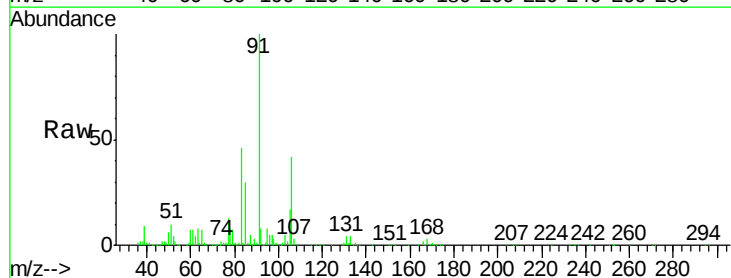
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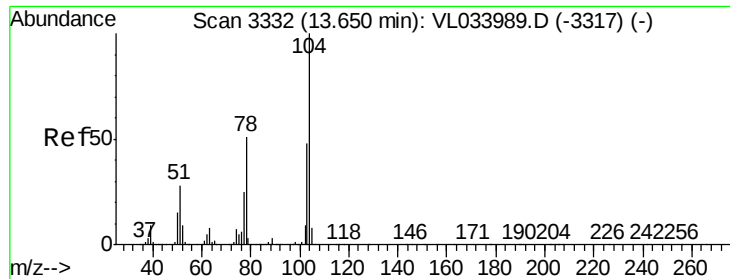
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#60
o-Xylene
Concen: 10.530 ppbv
RT: 13.81 min Scan# 3382
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion: 91 Resp: 3488282
Ion Ratio Lower Upper
91 100
106 43.1 21.9 65.7





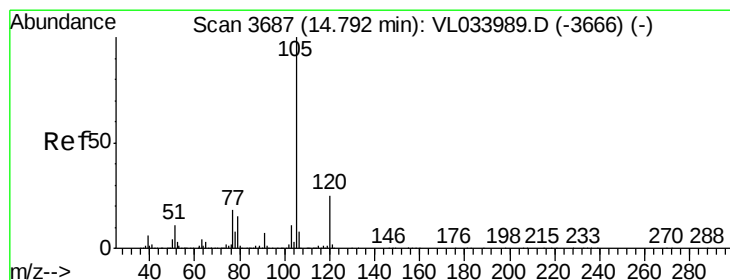
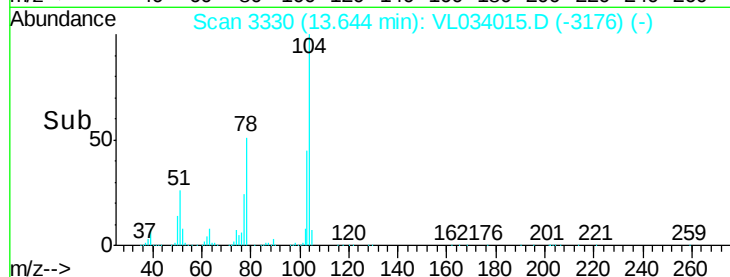
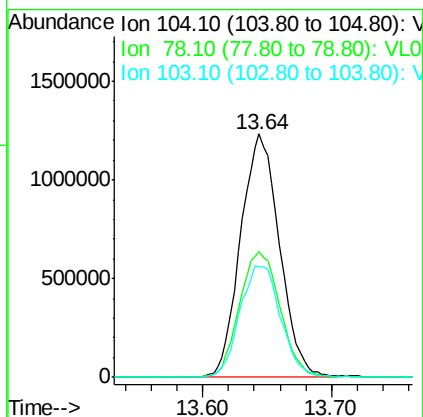
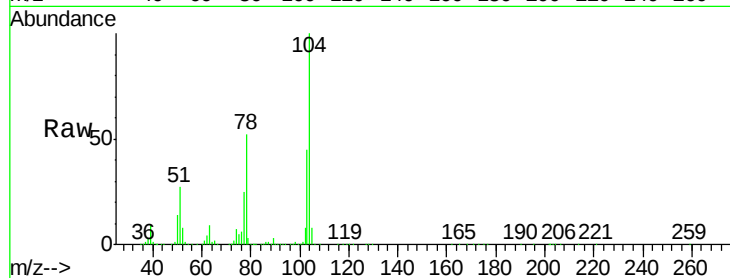
#61
Stvrene
Concen: 11.839 ppbv
RT: 13.64 min Scan# 3330
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.2	43.9	65.9
103	48.2	38.1	57.1

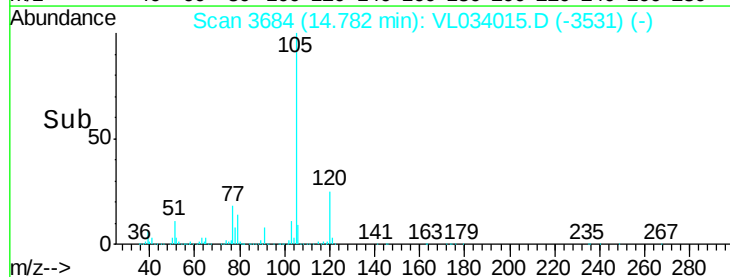
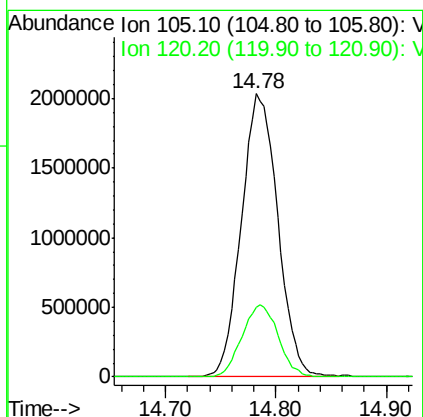
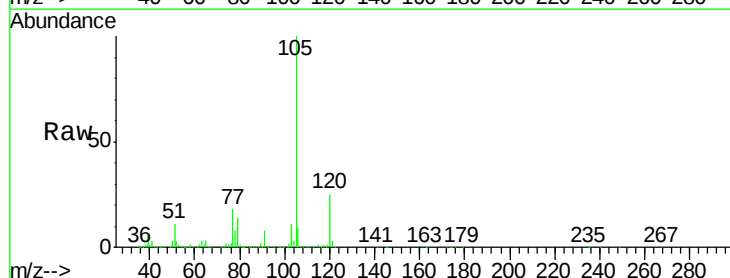
Manual Integrations
APPROVED

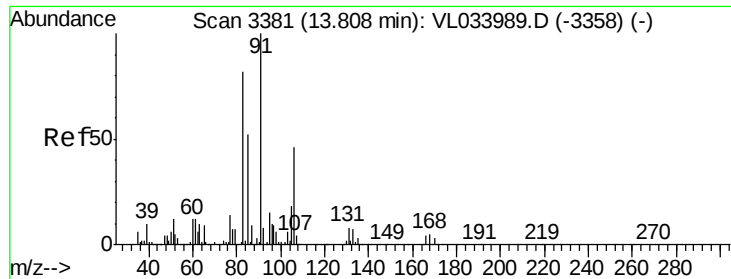
MMDadoda
7/10/2019 8:50:12 AM



#62
Isopropylbenzene
Concen: 9.138 ppbv
RT: 14.78 min Scan# 3684
Delta R.T. -0.01 min
Lab File: VL034015.D
Acq: 8 Jul 2019 17:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 9.385 ppbv

RT: 13.79 min Scan# 3377

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2406407

Ion Ratio Lower Upper

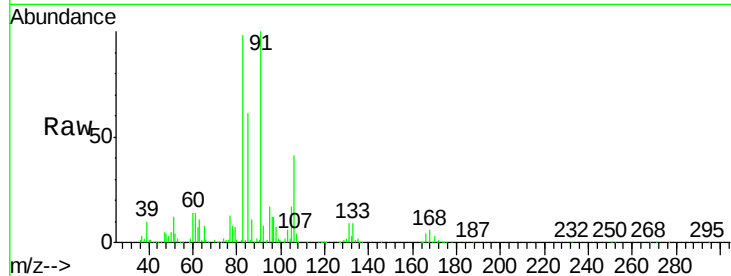
83 100

131 9.8 5.0 14.9

85 64.7 32.8 98.3

Manual Integrations
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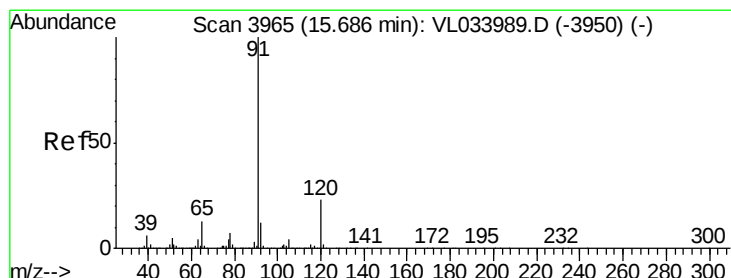
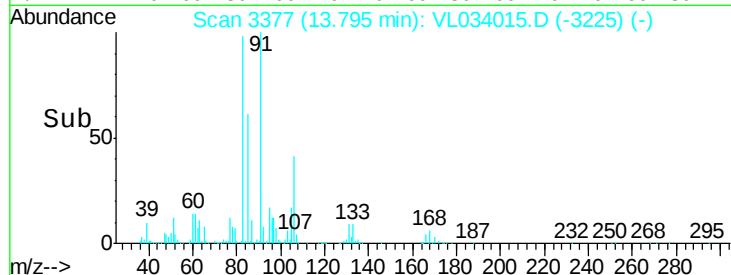
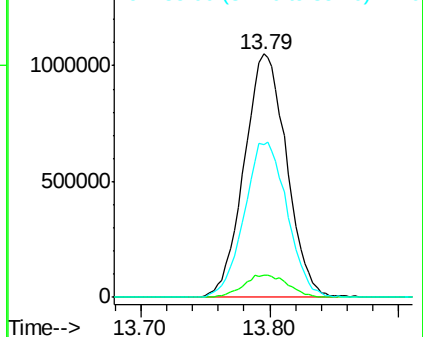
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.011 ppbv

RT: 15.68 min Scan# 3964

Delta R.T. -0.00 min

Lab File: VL034015.D

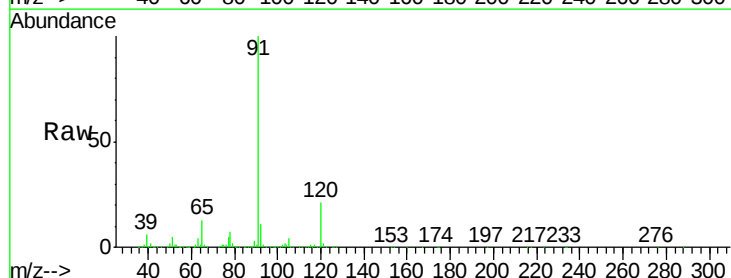
Acq: 8 Jul 2019 17:19

Tgt Ion:120 Resp: 1190025

Ion Ratio Lower Upper

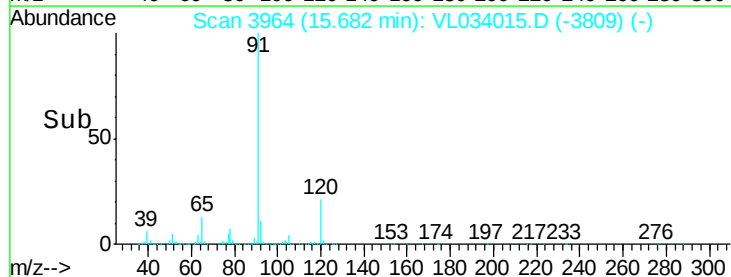
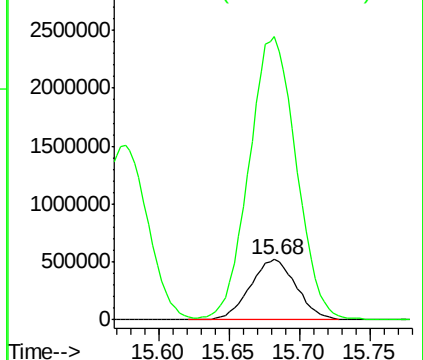
120 100

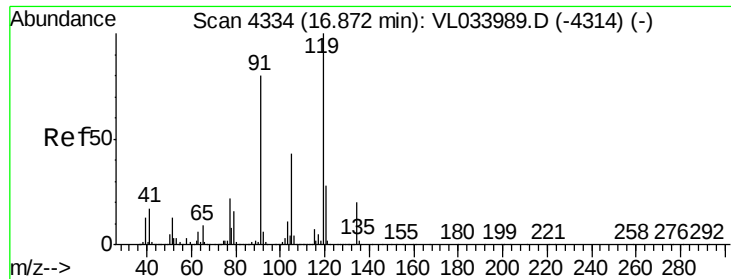
91 481.7 386.6 579.8



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.677 ppbv

RT: 16.87 min Scan# 4332

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 4190536

Ion Ratio Lower Upper

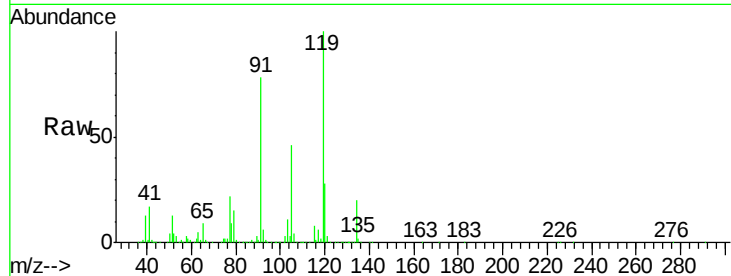
119 100

91 82.7 67.0 100.6

134 19.7 15.8 23.6

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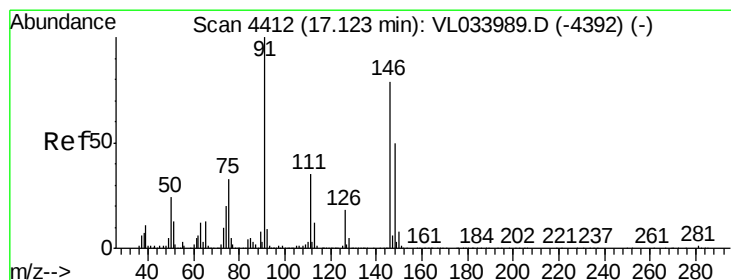
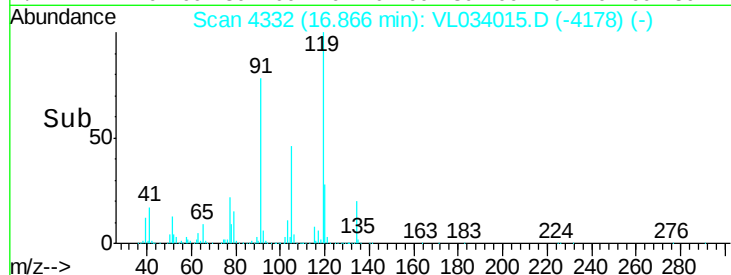
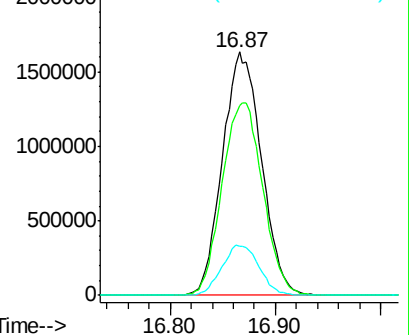
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.496 ppbv

RT: 17.12 min Scan# 4410

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

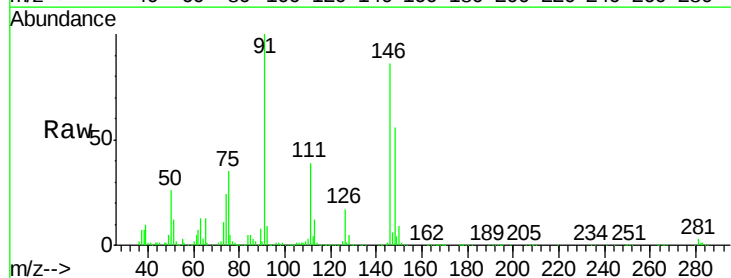
Tgt Ion: 91 Resp: 2325552

Ion Ratio Lower Upper

91 100

126 17.4 13.9 20.9

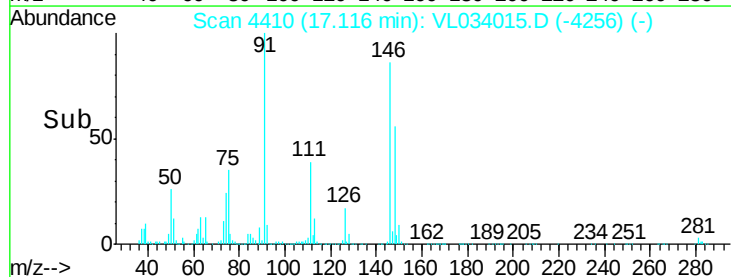
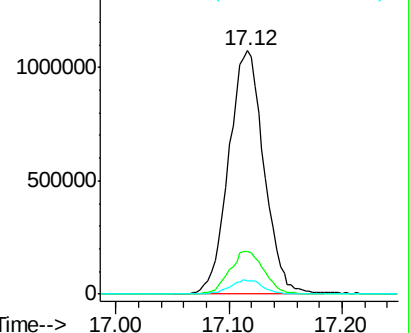
128 5.6 4.6 7.0

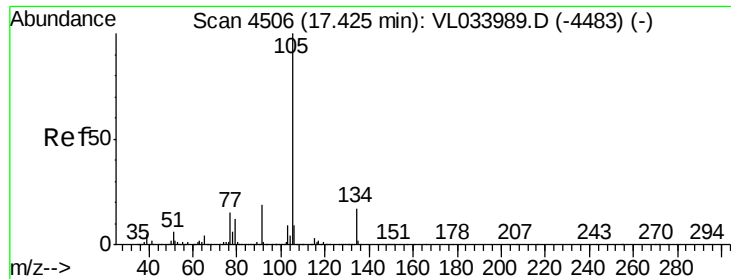


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





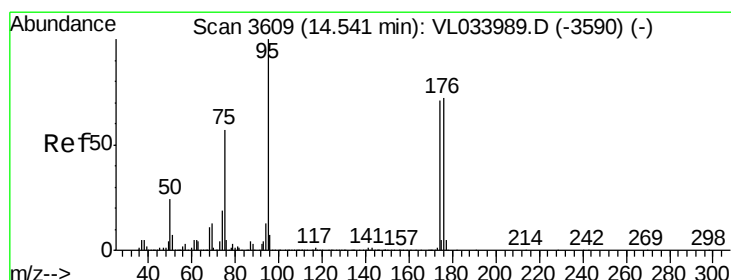
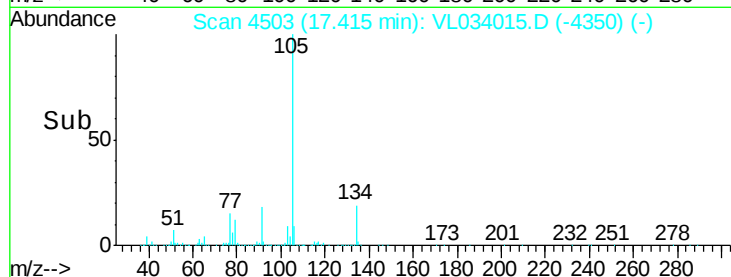
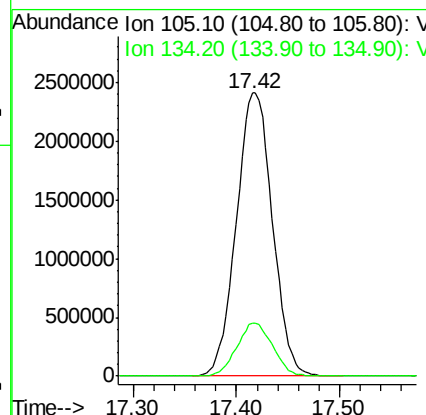
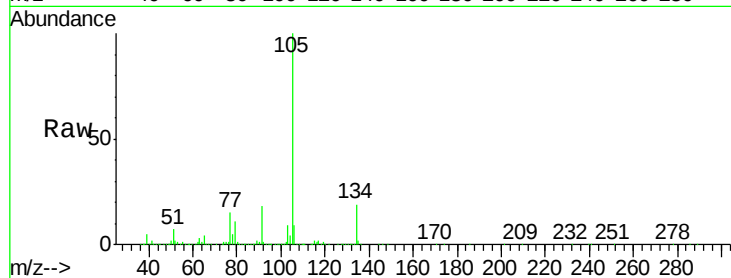
#67
 sec-Butylbenzene
 Concen: 9.622 ppbv
 RT: 17.42 min Scan# 4503
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 5848705
 Ion Ratio Lower Upper
 105 100
 134 18.6 14.7 22.1

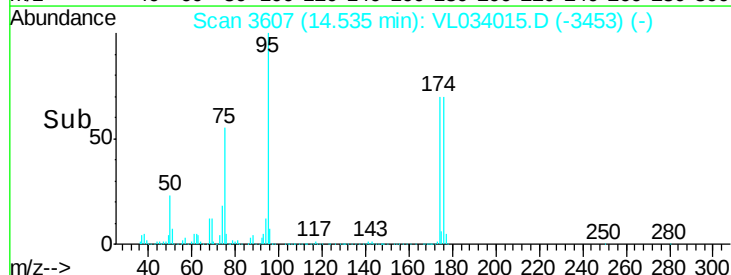
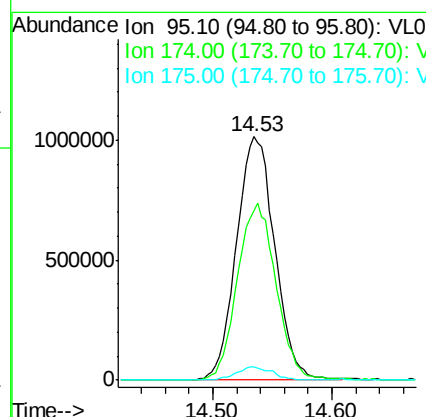
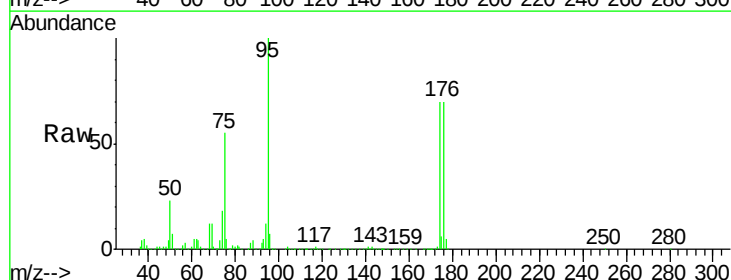
Manual Integrations
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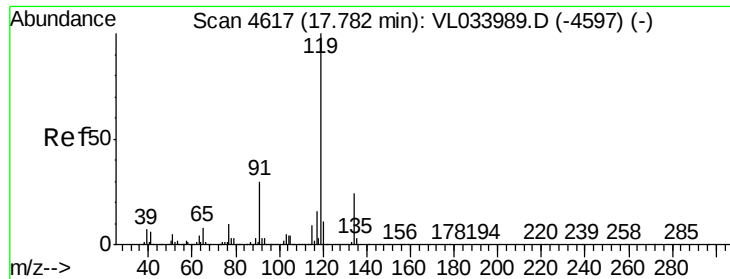
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 8.675 ppbv
 RT: 14.53 min Scan# 3607
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Tgt Ion: 95 Resp: 2250145
 Ion Ratio Lower Upper
 95 100
 174 74.0 60.5 90.7
 175 5.2 4.0 6.0





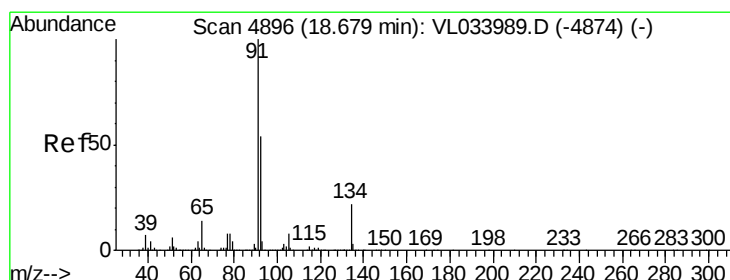
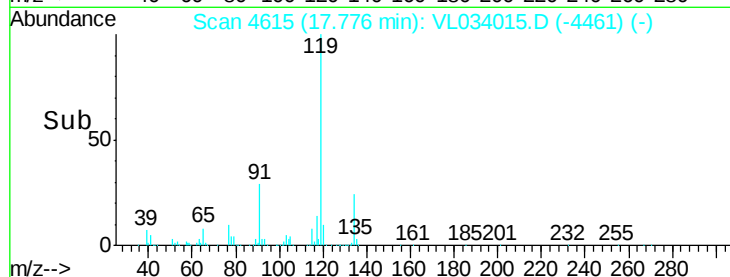
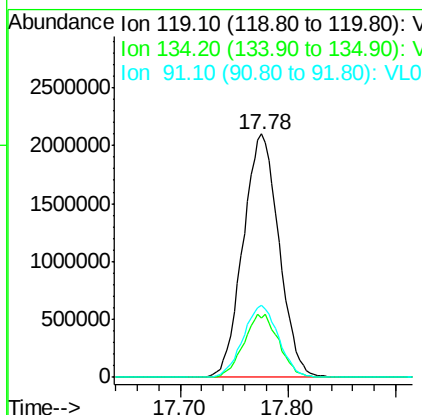
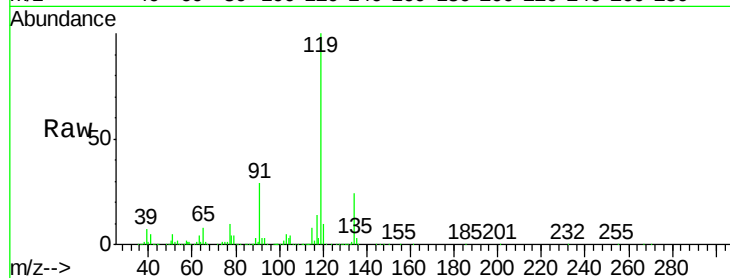
#69
 p-Isopropyltoluene
 Concen: 9.673 ppbv
 RT: 17.78 min Scan# 4615
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.1	30.1
91	29.4	23.6	35.4

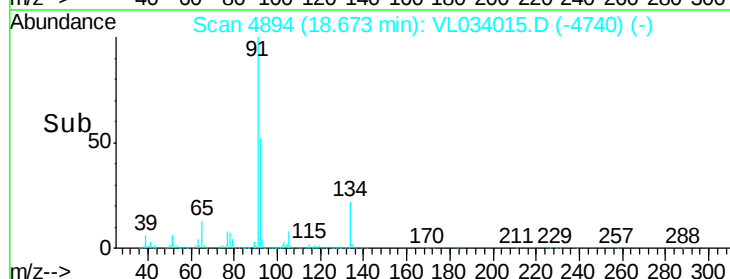
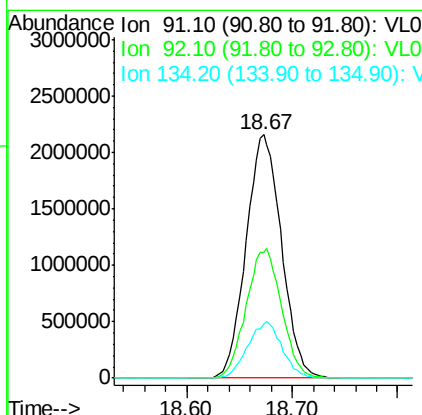
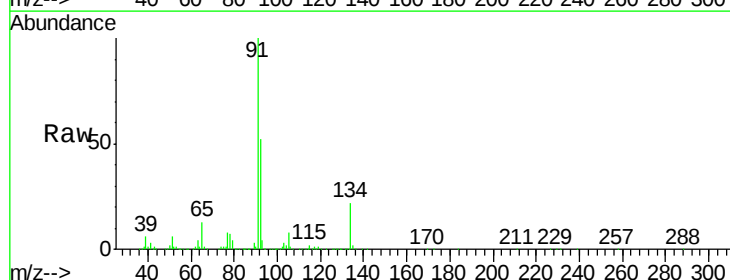
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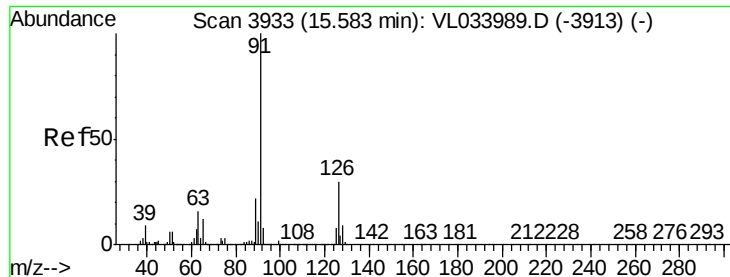
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#70
 n-Butylbenzene
 Concen: 9.565 ppbv
 RT: 18.67 min Scan# 4894
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.0	63.0
134	22.5	17.9	26.9





#71

2-Chlorotoluene

Concen: 9.335 ppbv

RT: 15.58 min Scan# 3931

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3478891

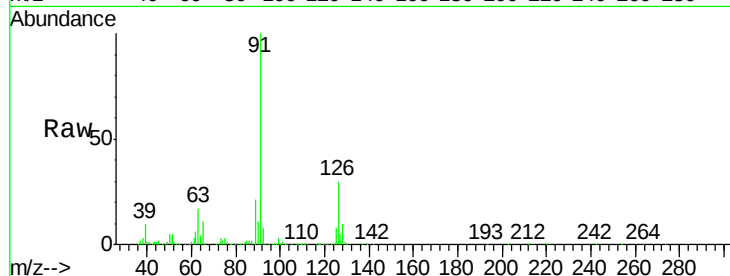
Ion Ratio Lower Upper

91 100

126 30.6 12.3 49.3

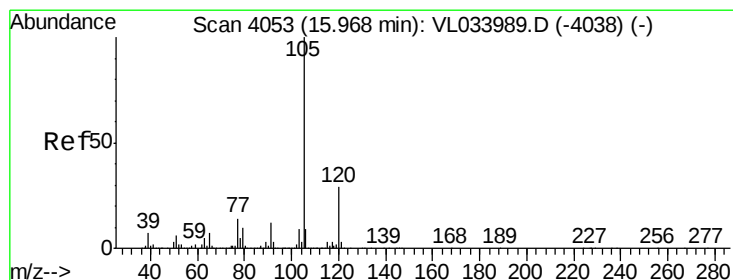
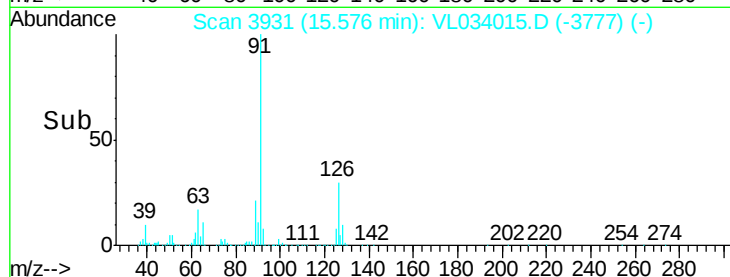
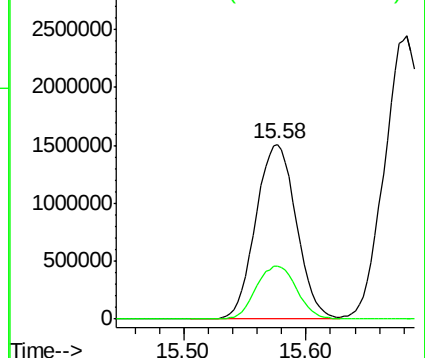
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.517 ppbv

RT: 15.96 min Scan# 4051

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Tgt Ion:105 Resp: 4048764

Ion Ratio Lower Upper

105 100

120 29.7 24.1 36.1

91 12.9 10.6 16.0

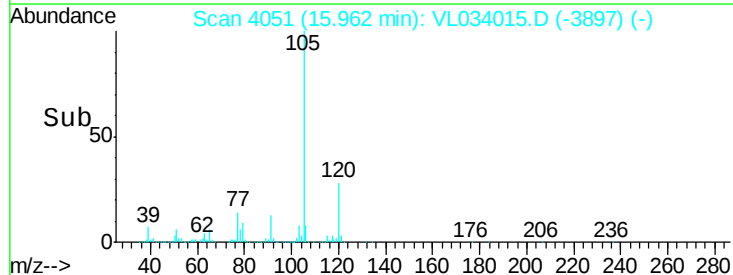
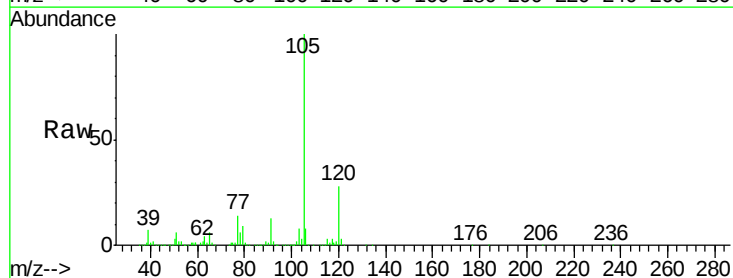
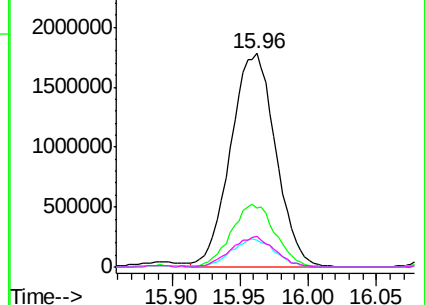
77 14.0 11.5 17.3

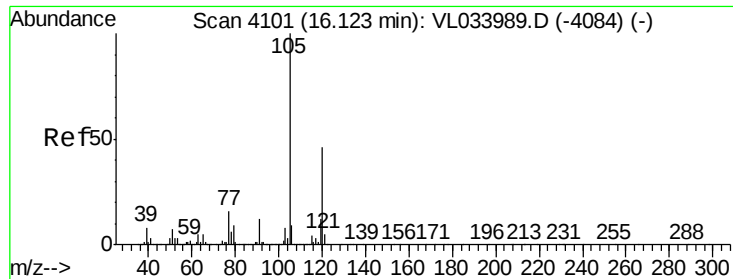
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 9.885 ppbv

RT: 16.12 min Scan# 4100

Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3912944

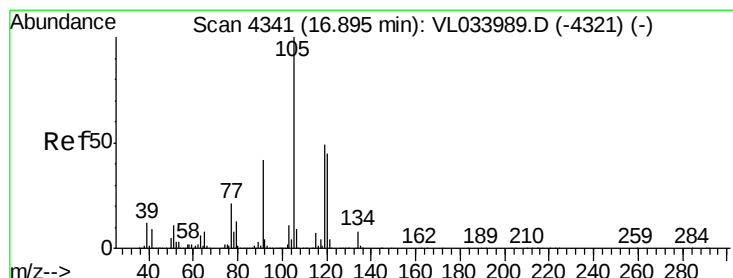
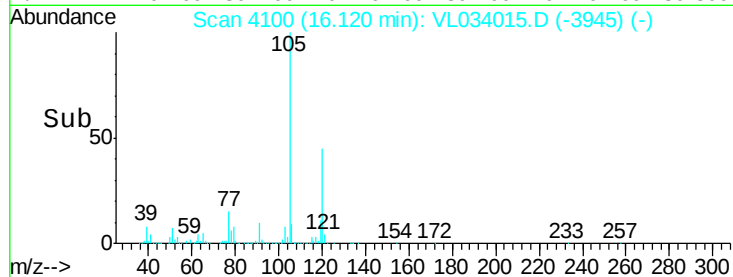
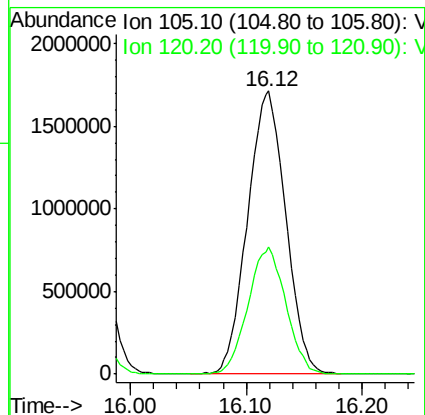
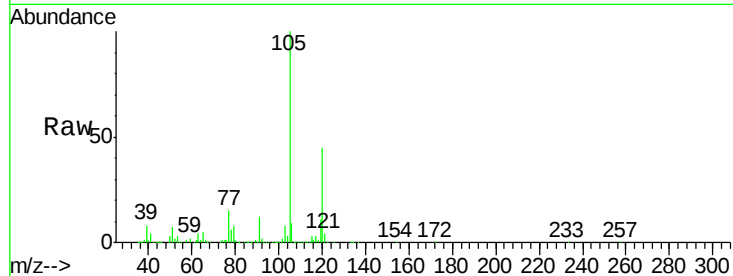
Ion Ratio Lower Upper

105 100

120 44.9 36.4 54.6

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#74

1,2,4-Trimethylbenzene

Concen: 9.285 ppbv

RT: 16.88 min Scan# 4338

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Tgt Ion:105 Resp: 4070729

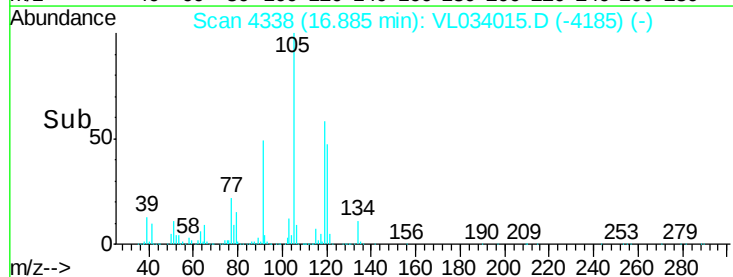
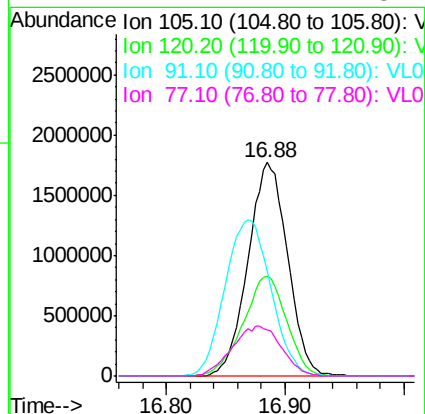
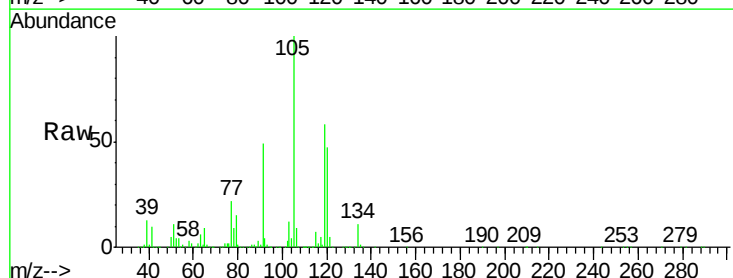
Ion Ratio Lower Upper

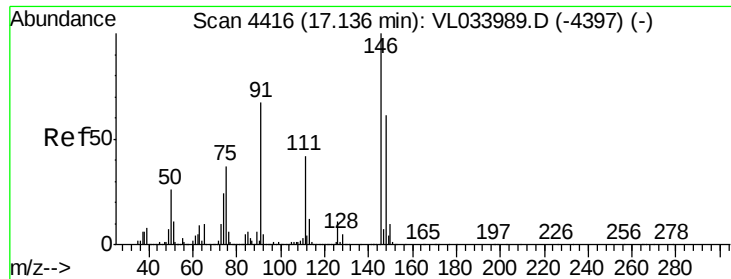
105 100

120 46.7 36.2 54.2

91 48.8 34.3 51.5

77 21.7 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 8.715 ppbv

RT: 17.12 min Scan# 4412

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

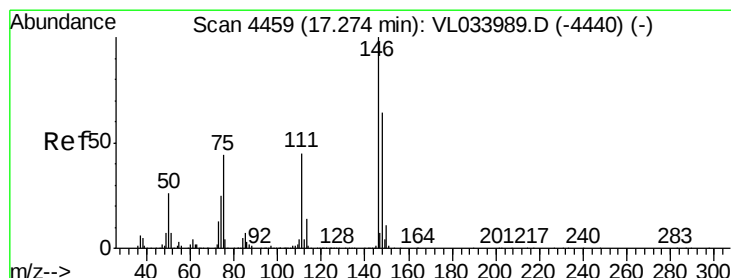
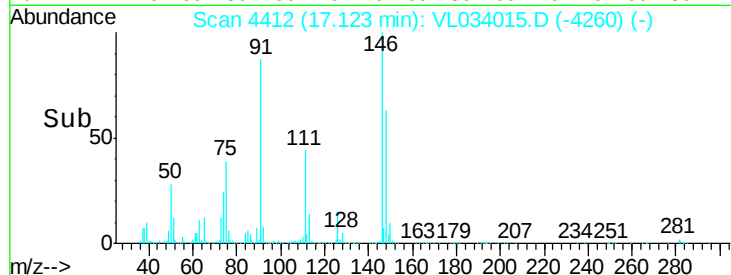
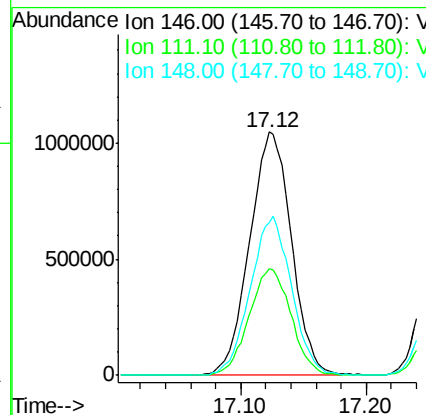
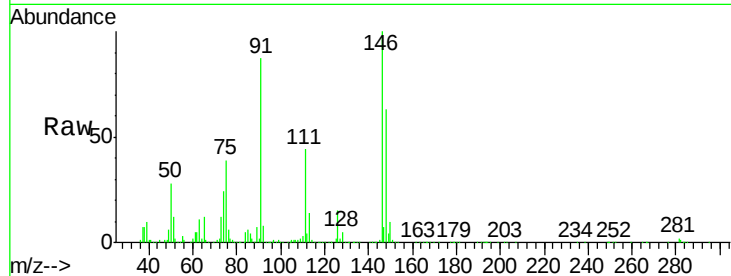
ClientSampleId :

VSTDCCC010EC

Tot Ion:	146	Resp:	2427081
Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.3	66.9
148	64.7	32.0	96.2

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 9.145 ppbv

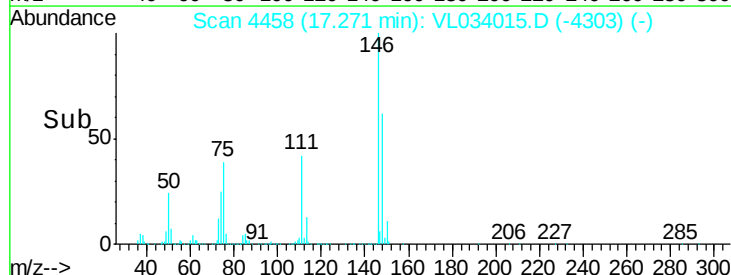
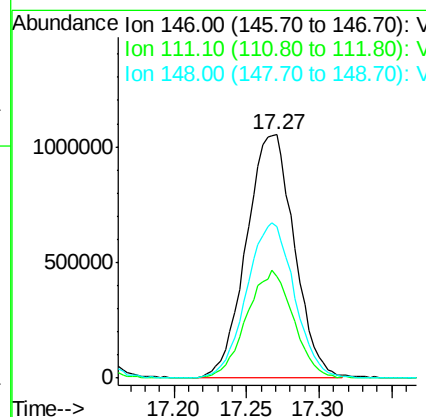
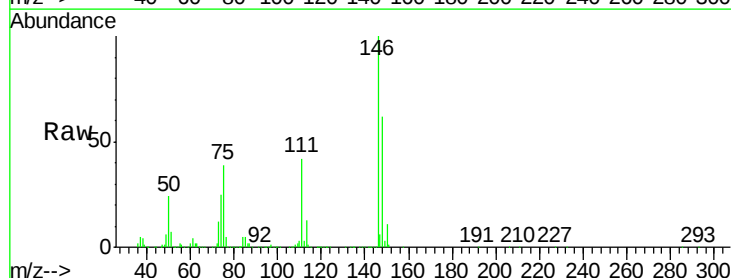
RT: 17.27 min Scan# 4458

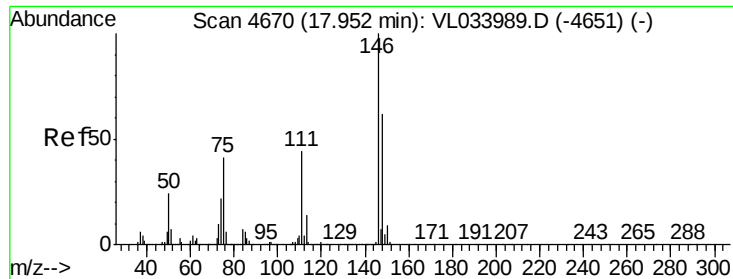
Delta R.T. -0.00 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Tgt Ion:	146	Resp:	2398569
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.9	65.5
148	64.2	32.5	97.5





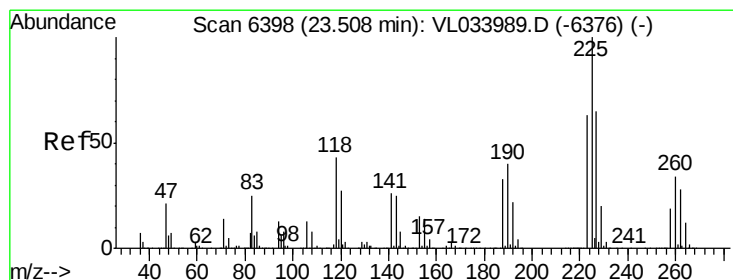
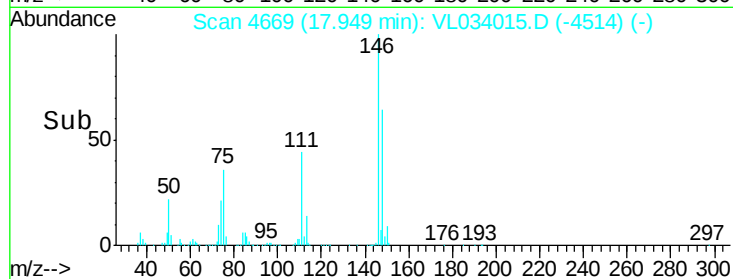
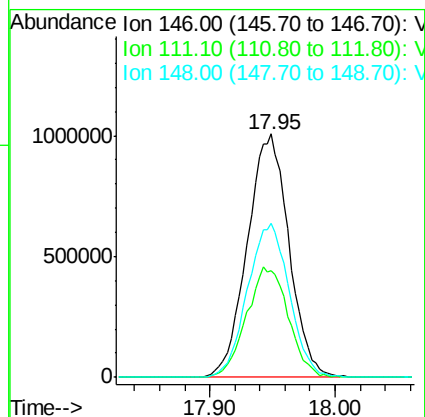
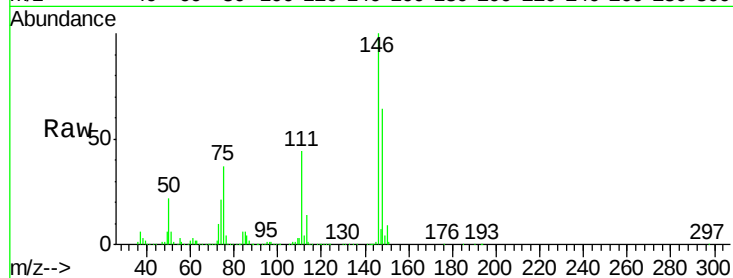
#77
 1,2-Dichlorobenzene
 Concen: 8.998 ppbv
 RT: 17.95 min Scan# 4669
 Delta R.T. -0.00 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2320294
 Ion Ratio Lower Upper
 146 100
 111 45.7 22.7 68.1
 148 64.0 32.1 96.3

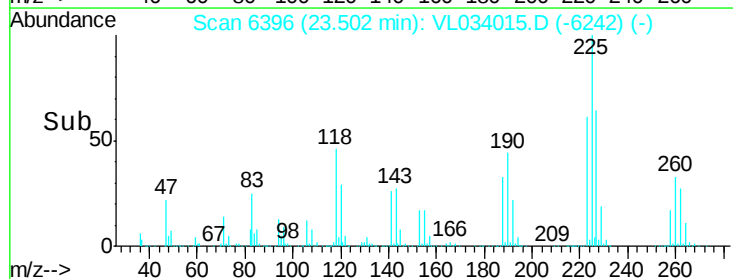
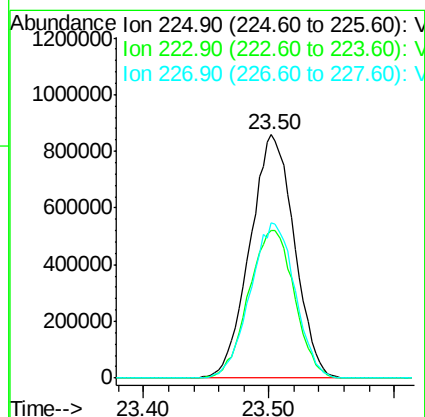
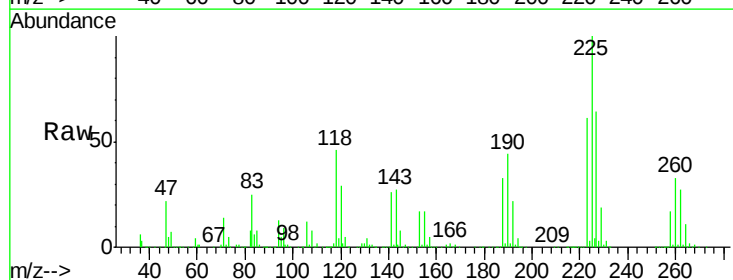
Manual Integrations
 APPROVED

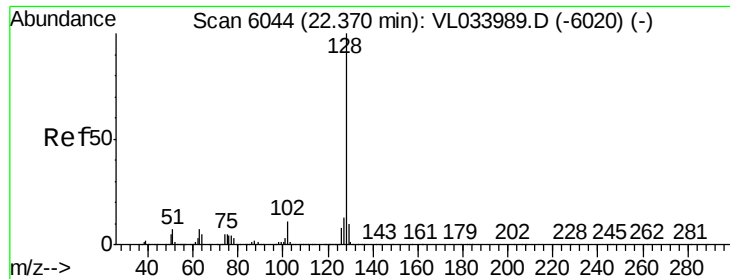
MMDadoda
 7/10/2019 8:50:12 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.637 ppbv
 RT: 23.50 min Scan# 6396
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Tgt Ion:225 Resp: 2114620
 Ion Ratio Lower Upper
 225 100
 223 62.6 51.5 77.3
 227 64.2 52.1 78.1





#79

Naphthalene

Concen: 10.163 ppbv

RT: 22.36 min Scan# 6040

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3745891

Ion Ratio Lower Upper

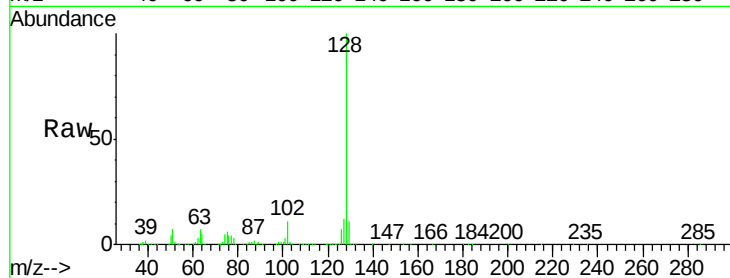
128 100

127 12.1 10.6 15.8

129 11.2 8.3 12.5

Manual Integrations
APPROVED

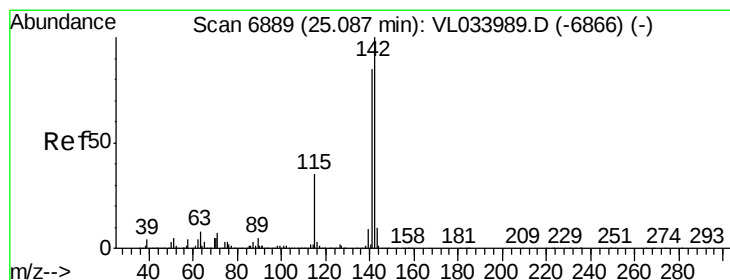
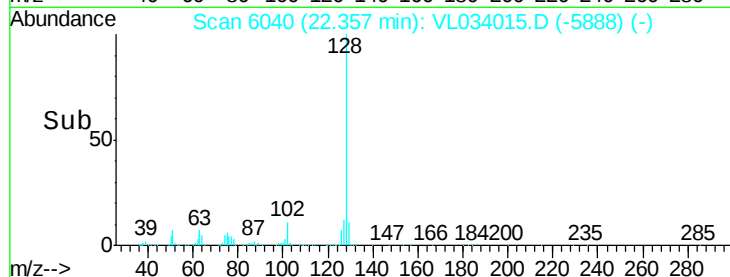
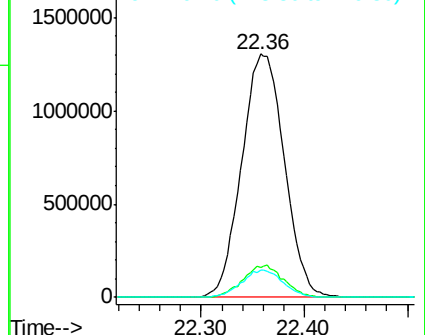
MMDadoda
7/10/2019 8:50:12 AM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 14.530 ppbv

RT: 25.08 min Scan# 6886

Delta R.T. -0.01 min

Lab File: VL034015.D

Acq: 8 Jul 2019 17:19

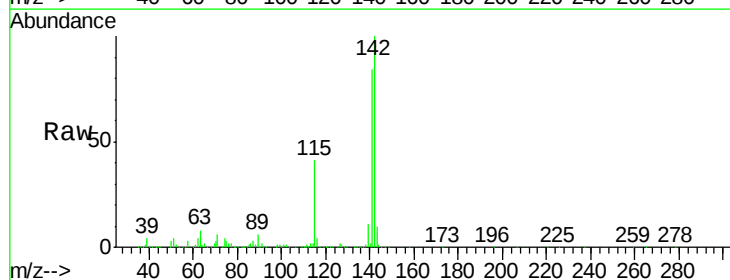
Tgt Ion:142 Resp: 1948906

Ion Ratio Lower Upper

142 100

141 84.3 68.2 102.2

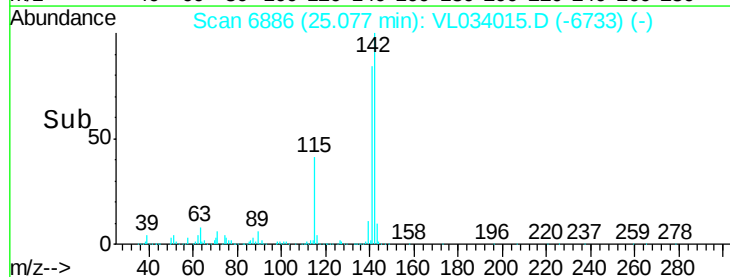
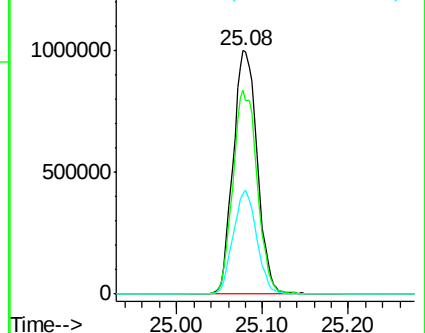
115 41.5 29.9 44.9

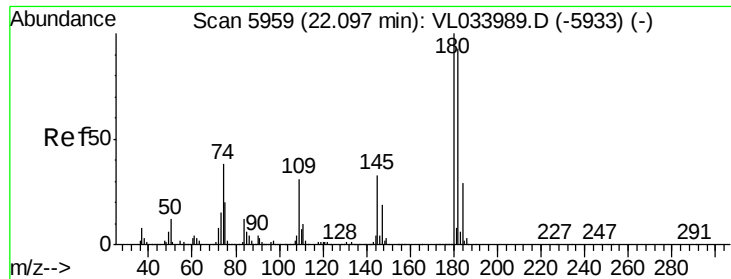


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.380 ppbv
 RT: 22.09 min Scan# 5956
 Delta R.T. -0.01 min
 Lab File: VL034015.D
 Acq: 8 Jul 2019 17:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.6	114.8
184	31.0	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 7/10/2019 8:50:12 AM

