

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033496.D
 Acq On : 29 Mar 2019 9:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:06 AM

Quant Time: Mar 30 01:45:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	928329	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2259651	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2526223	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1768155	8.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1160502	8.571	ppbv 99
3) Chlorodifluoromethane	3.01	51	1033324	9.669	ppbv 97
4) Chloromethane	3.17	50	572288	10.119	ppbv 99
5) Vinyl Chloride	3.29	62	563686	10.144	ppbv 95
6) Bromomethane	3.52	94	367601	10.294	ppbv 98
7) Chloroethane	3.60	64	213643	10.331	ppbv 95
8) Dichlorotetrafluoroethane	3.22	85	1380595	9.570	ppbv 95
9) Propene	3.04	41	458662	10.219	ppbv 97
10) Heptane	8.25	43	1238813	10.326	ppbv 99
11) Trichlorofluoromethane	4.00	101	1552291	9.303	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1081728	9.652	ppbv 97
13) Ethanol	3.64	45	116946	10.069	ppbv 66
14) Bromoethene	3.79	108	466008	10.425	ppbv 98
15) Acetone	3.90	43	1000694	8.965	ppbv 98
16) 1,3-Butadiene	3.36	39	502054	11.340	ppbv 99
17) tert-Butyl alcohol	4.36	59	202479	9.866	ppbv 98
18) 1,1-Dichloroethene	4.35	96	498200	10.349	ppbv 95
19) Isopropyl Alcohol	4.02	45	675020	9.561	ppbv # 99
20) Methylene Chloride	4.41	84	434840	9.177	ppbv 96
21) Allyl Chloride	4.48	41	742147	10.518	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	496906	9.893	ppbv 93
23) Vinyl Acetate	5.15	43	1720218	10.827	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1180630	9.783	ppbv 99
25) Ethyl Acetate	5.77	43	2099703	10.139	ppbv 99
26) Hexane	5.78	57	948899	10.305	ppbv 97
27) Carbon Disulfide	4.62	76	1171007	10.694	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1402386	10.574	ppbv 100
29) Chloroform	5.85	83	1558317	9.872	ppbv 100
30) Cyclohexane	7.25	84	799080	10.969	ppbv 96
31) cis-1,2-Dichloroethene	5.64	61	1010080	11.033	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	1525128	10.147	ppbv 99
34) 2-Butanone	5.33	43	1356632	9.993	ppbv 99
35) Carbon Tetrachloride	7.14	117	1579775	9.871	ppbv 99
36) Benzene	7.01	78	1992271	10.508	ppbv 96
37) 1,2-Dichloroethane	6.41	62	1182047	9.301	ppbv 98
38) Trichloroethene	7.96	130	805555	11.289	ppbv 98
39) 1,2-Dichloropropane	7.74	63	744436	10.023	ppbv 98
40) 1,4-Dioxane	7.95	88	283275	10.694	ppbv 90
41) Tetrahydrofuran	6.15	42	789868	10.578	ppbv 96
42) Bromodichloromethane	7.92	83	1711700	9.889	ppbv 98
43) Methyl Methacrylate	8.14	69	827748	10.752	ppbv 98

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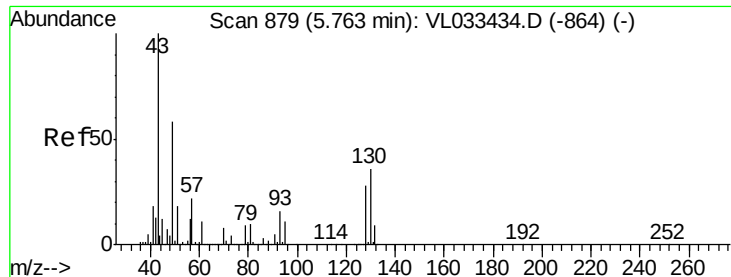
Manual Integrations
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Quant Time: Mar 30 01:45:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3287673	9.923	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1119101	11.840	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	1256013	11.379	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	856950	10.161	ppbv	99
48) Dibromochloromethane	10.45	129	1560322	10.968	ppbv	98
49) Bromoform	13.21	173	1398011	10.287	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2033754	10.231	ppbv	98
51) 2-Hexanone	10.27	43	1641287	11.068	ppbv	99
52) Tetrachloroethene	11.38	164	810694	11.333	ppbv	98
53) Toluene	9.95	91	2487683	11.291	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1392280	10.554	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	1079385	9.323	ppbv	95
57) Chlorobenzene	12.30	112	1864201	9.504	ppbv	92
58) Ethyl Benzene	12.87	91	3389143	10.046	ppbv	99
59) m/p-Xylene	13.15	91	5691614m	18.888	ppbv	
60) o-Xylene	13.85	91	2768659	9.502	ppbv	99
61) Styrene	13.69	104	2134368	10.673	ppbv	98
62) Isopropylbenzene	14.83	105	3928926	9.522	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1908146	8.894	ppbv	99
64) n-propylbenzene	15.72	120	1006421	9.612	ppbv	98
65) tert-Butylbenzene	16.91	119	3499239	9.624	ppbv	98
66) Benzyl Chloride	17.16	91	1878494	11.110	ppbv	98
67) sec-Butylbenzene	17.46	105	4945203	9.563	ppbv	100
69) p-Isopropyltoluene	17.82	119	4130250	9.810	ppbv	99
70) n-Butylbenzene	18.72	91	4313065	9.669	ppbv	99
71) 2-Chlorotoluene	15.62	91	3009647	9.592	ppbv	99
72) 4-Ethyltoluene	16.00	105	3202102	9.776	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3090856	9.861	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3197813	9.519	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1925557	9.273	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1926658	9.523	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1881405	9.550	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1408158	10.797	ppbv	99
79) Naphthalene	22.42	128	3263985	11.350	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1532626	15.880	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	1669836	10.468	ppbv	100

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



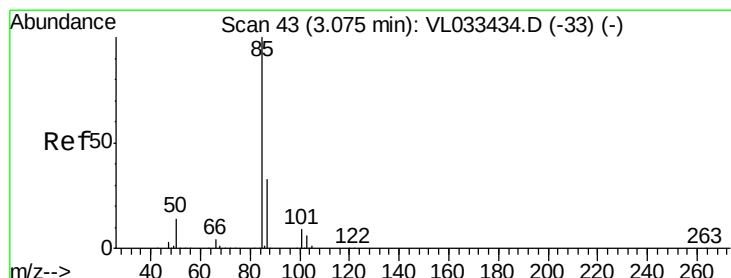
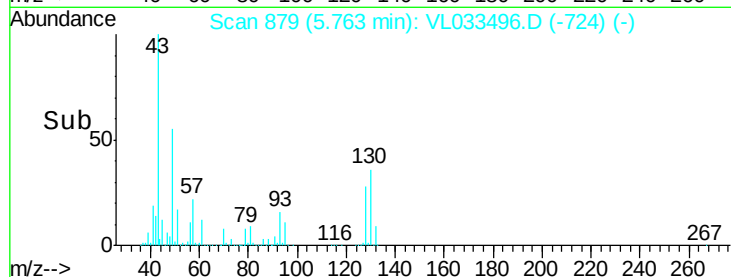
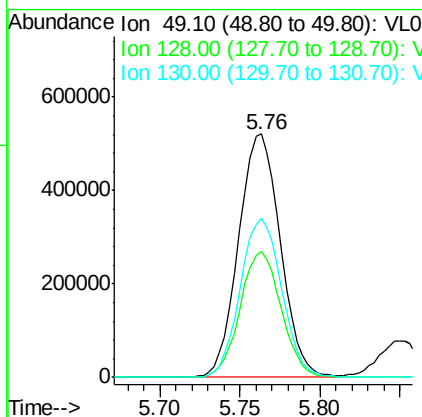
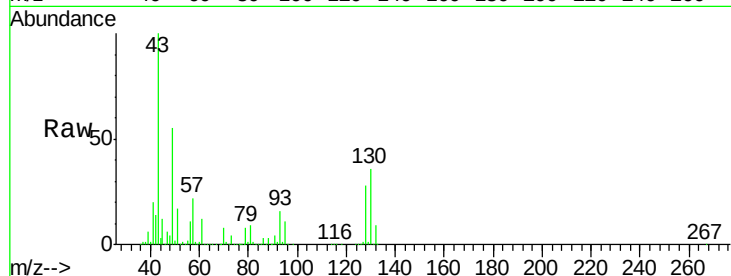
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
49	100		
128	51.0	24.0	72.0
130	65.3	31.2	93.6

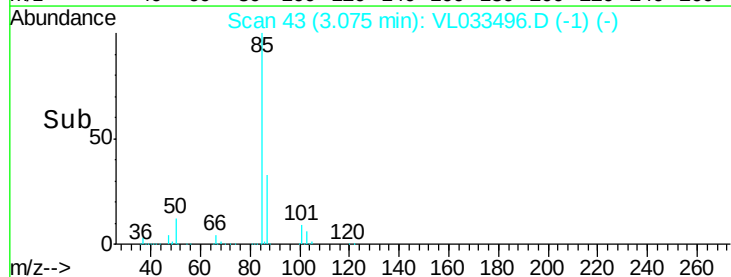
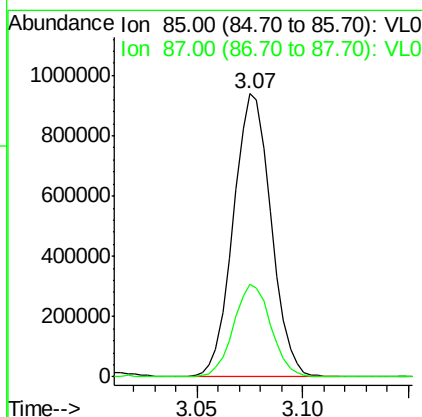
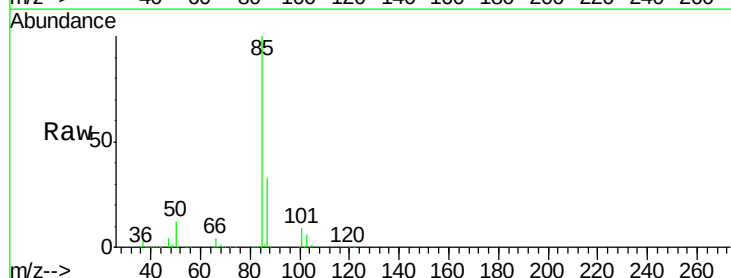
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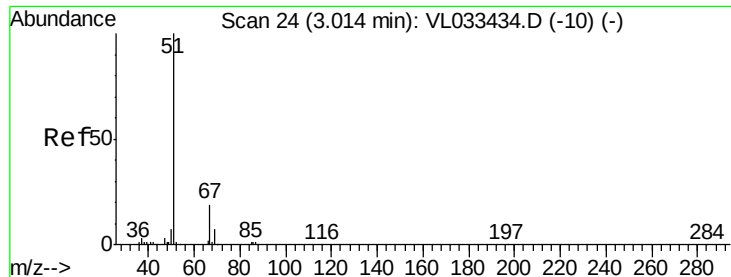
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#2
Dichlorodifluoromethane
Concen: 8.571 ppbv
RT: 3.07 min Scan# 43
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.7	40.1





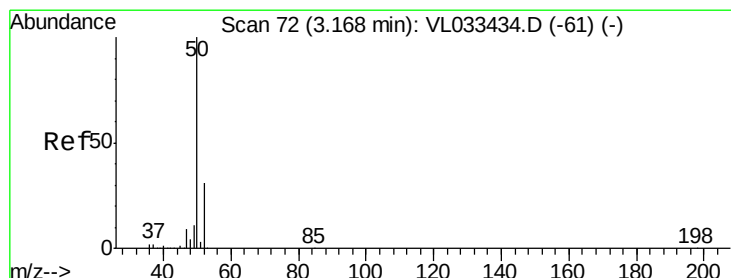
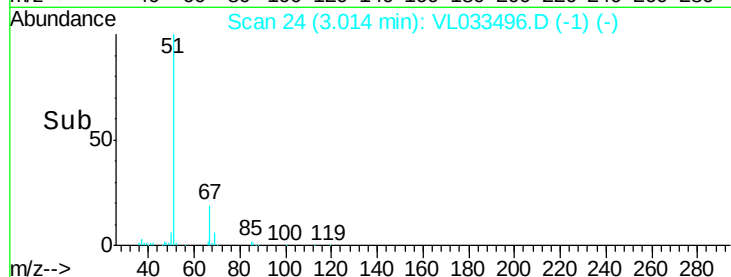
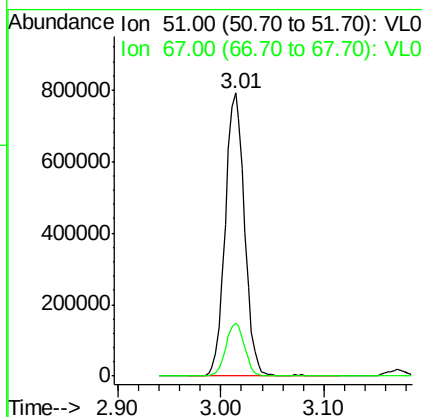
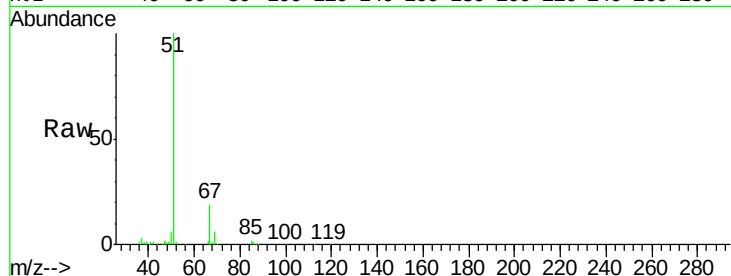
#3
Chlorodifluoromethane
Concen: 9.669 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1033324
Ion Ratio Lower Upper
51 100
67 18.2 15.7 23.5

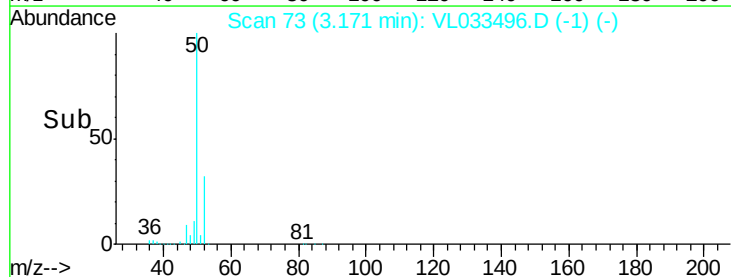
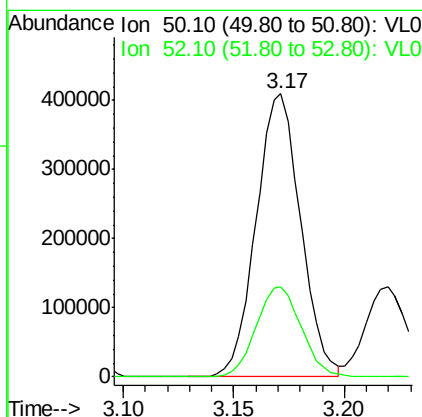
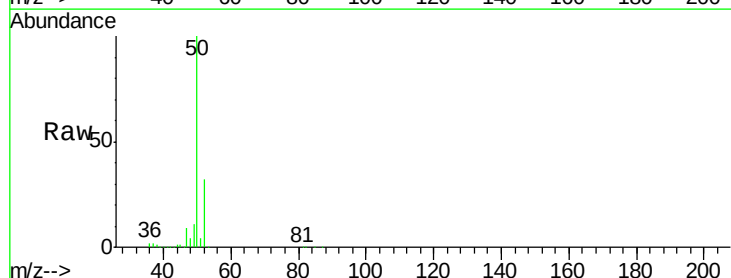
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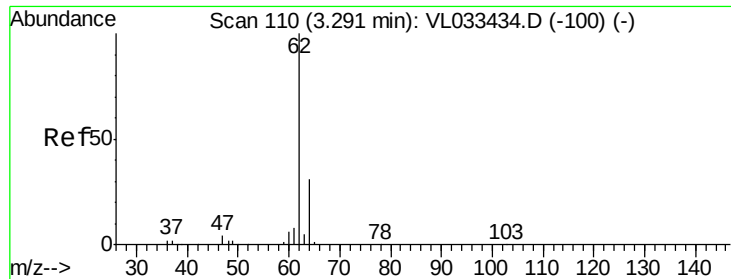
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#4
Chloromethane
Concen: 10.119 ppbv
RT: 3.17 min Scan# 73
Delta R.T. 0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 50 Resp: 572288
Ion Ratio Lower Upper
50 100
52 32.0 25.0 37.6





#5

Vinyl Chloride

Concen: 10.144 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 563686

Ion Ratio Lower Upper

62 100

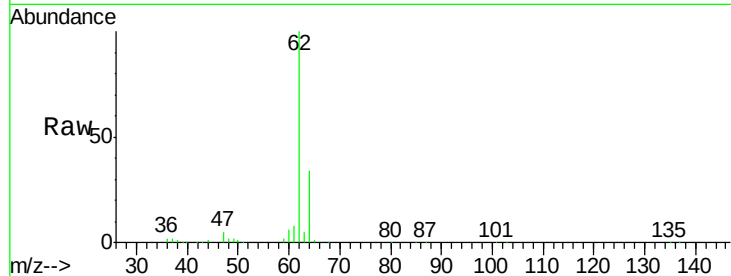
64 33.7 24.9 37.3

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

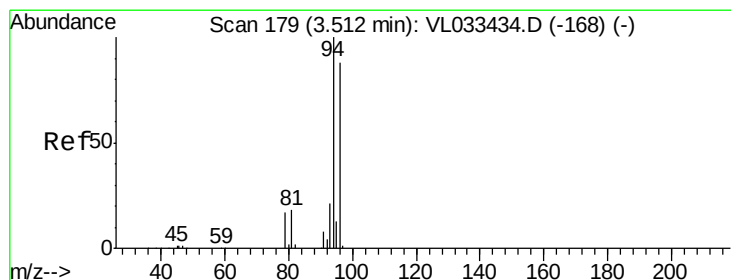
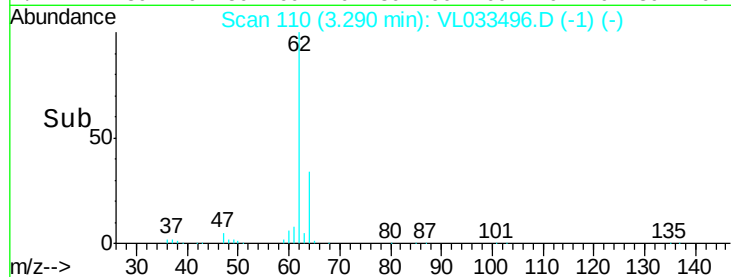
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.294 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033496.D

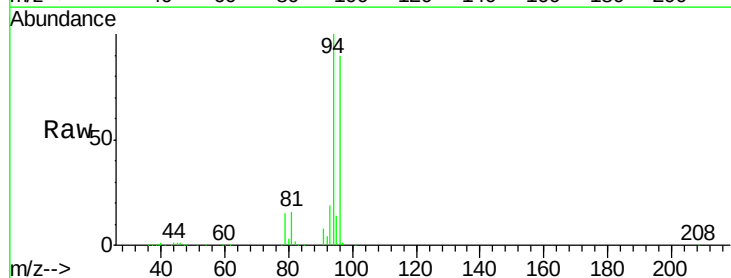
Acq: 29 Mar 2019 9:57

Tgt Ion: 94 Resp: 367601

Ion Ratio Lower Upper

94 100

96 89.6 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

300000

250000

200000

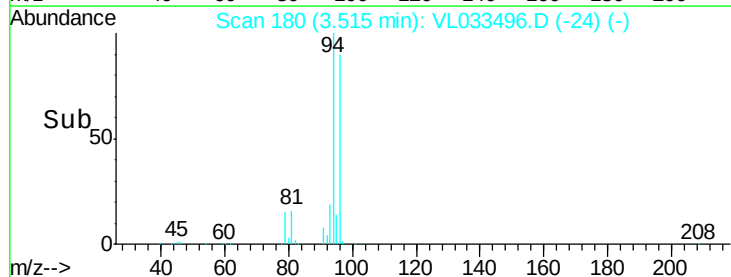
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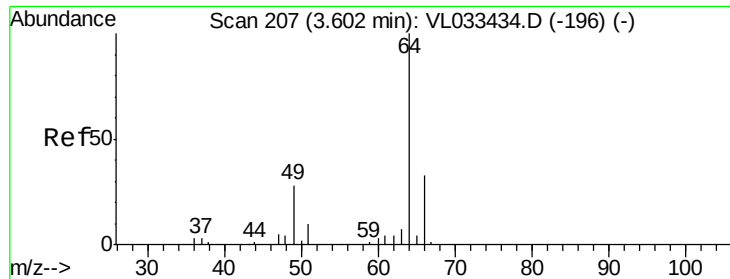
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.331 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 213643

Ion Ratio Lower Upper

64 100

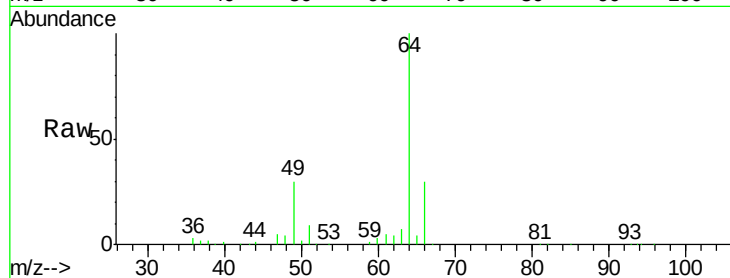
66 30.3 26.7 40.1

Manual Integrations

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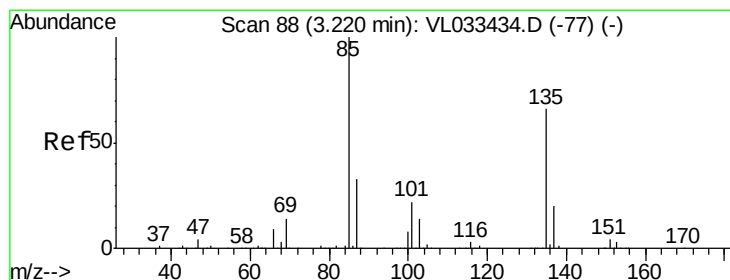
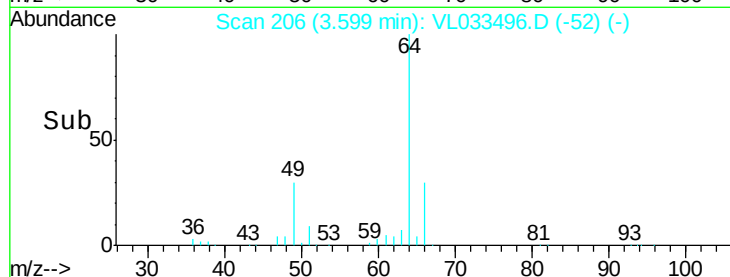
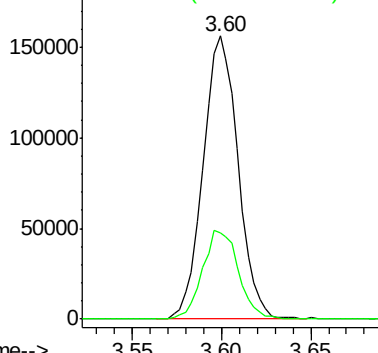
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.570 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033496.D

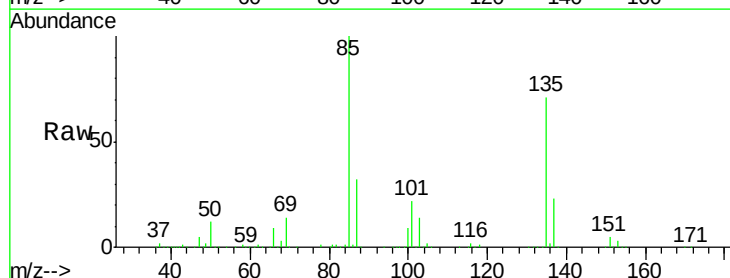
Acq: 29 Mar 2019 9:57

Tgt Ion: 85 Resp: 1380595

Ion Ratio Lower Upper

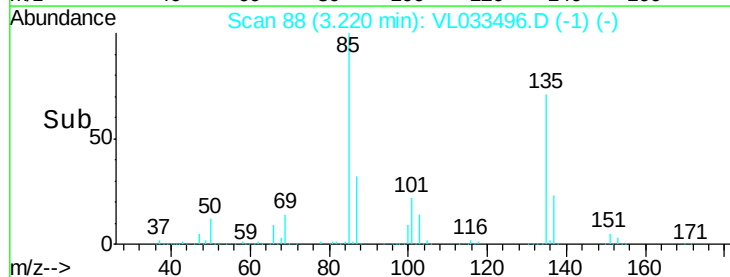
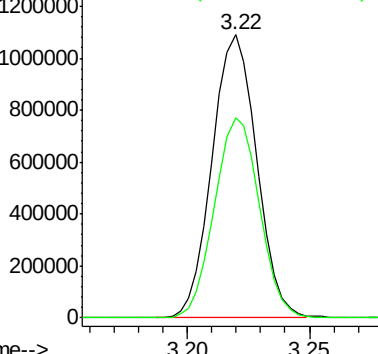
85 100

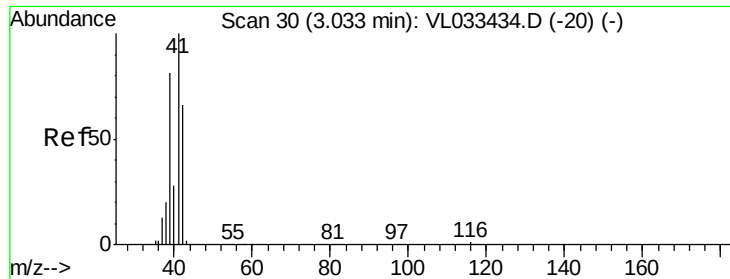
135 71.7 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 10.219 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 458662

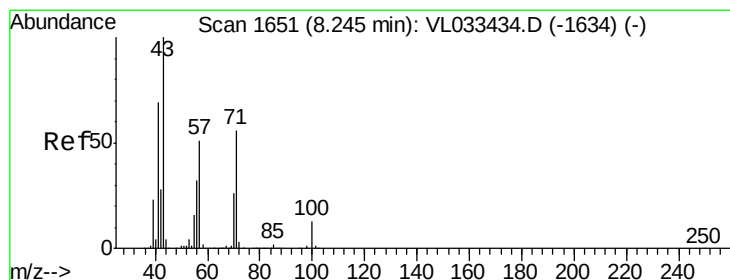
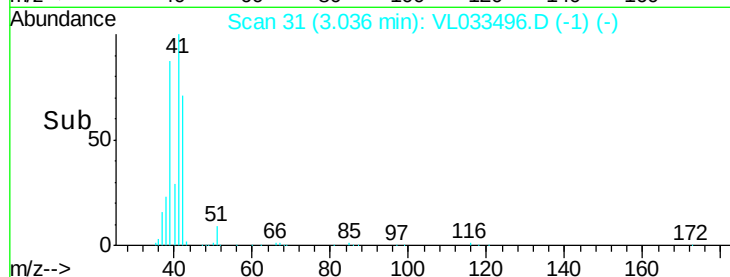
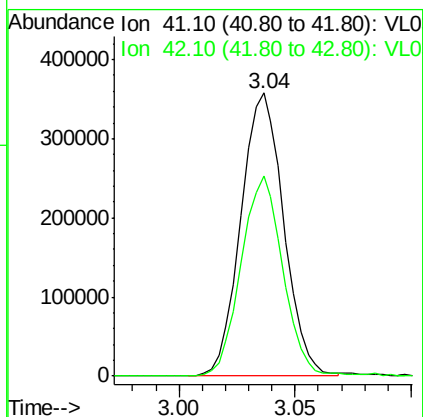
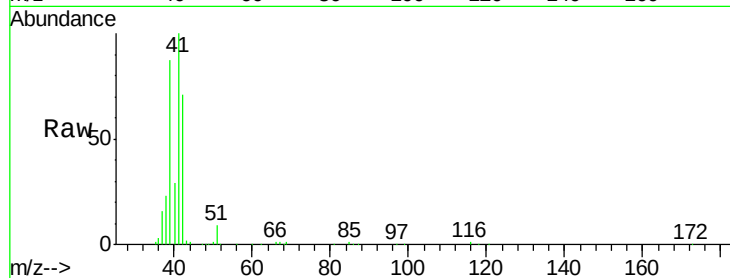
Ion Ratio Lower Upper

41 100

42 69.6 53.9 80.9

Manual Integrations
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#10

Heptane

Concen: 10.326 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033496.D

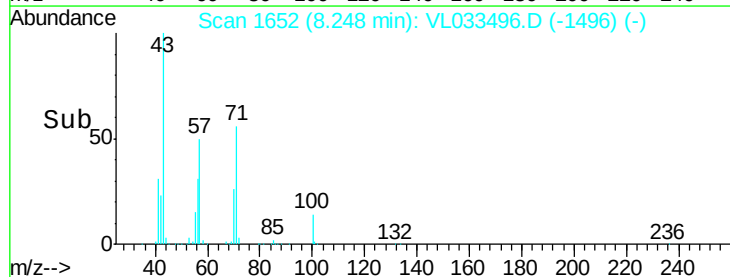
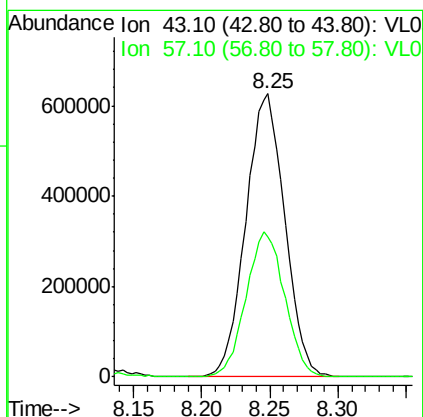
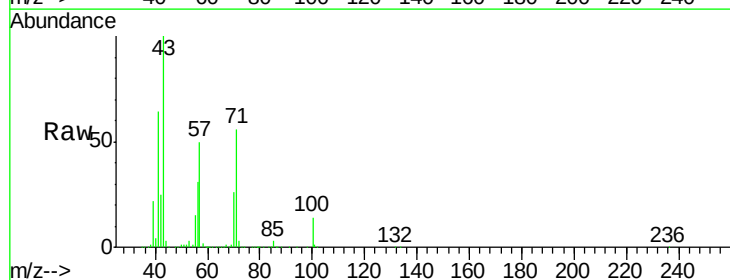
Acq: 29 Mar 2019 9:57

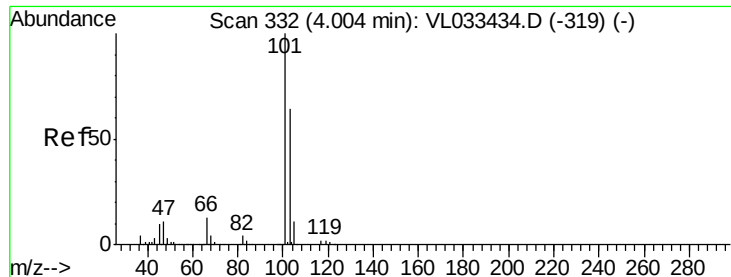
Tgt Ion: 43 Resp: 1238813

Ion Ratio Lower Upper

43 100

57 51.2 40.6 60.8





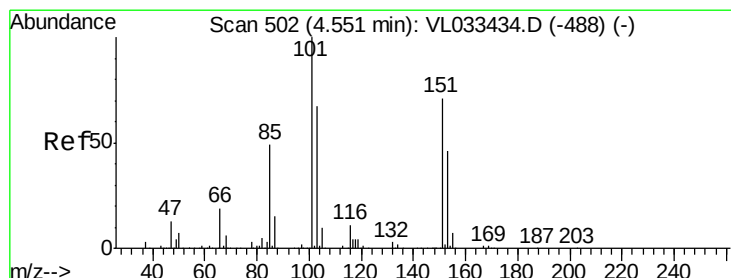
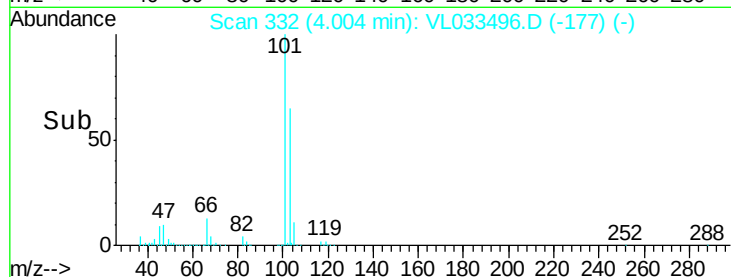
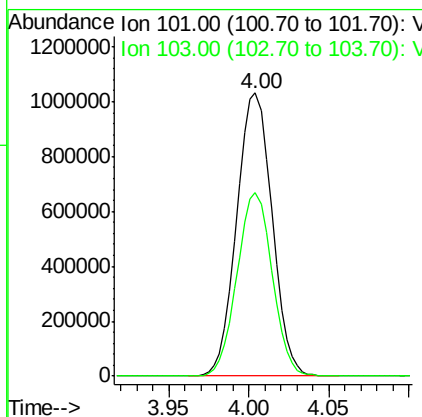
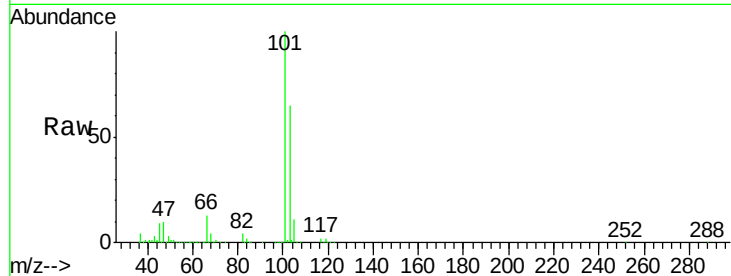
#11
 Trichlorofluoromethane
 Concen: 9.303 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1552291
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.3 76.9

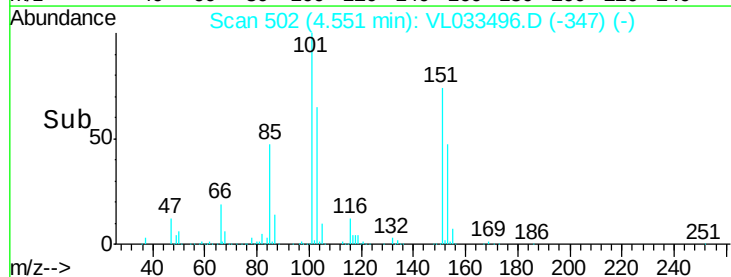
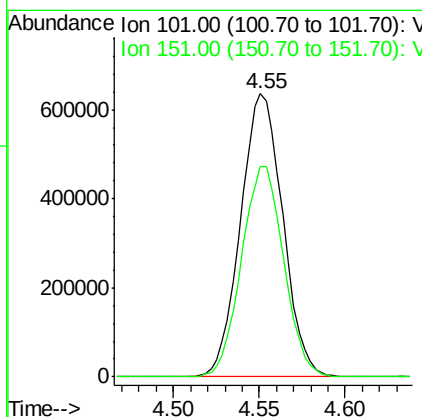
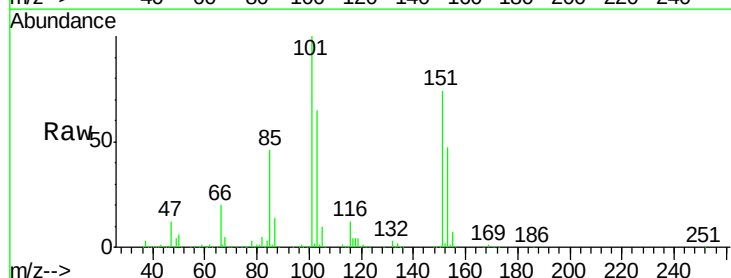
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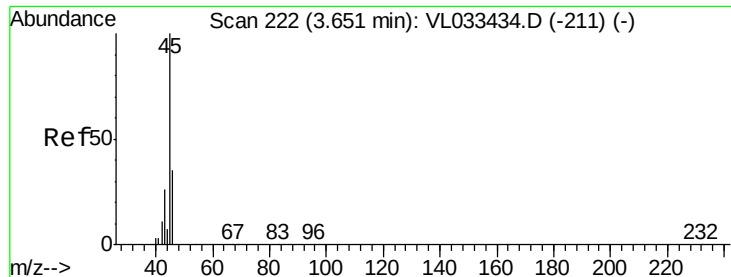
MMDadoda
 4/1/2019 4:03:06 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.652 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion:101 Resp: 1081728
 Ion Ratio Lower Upper
 101 100
 151 74.4 57.7 86.5





#13

Ethanol

Concen: 10.069 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 116946

Ion Ratio Lower Upper

45 100

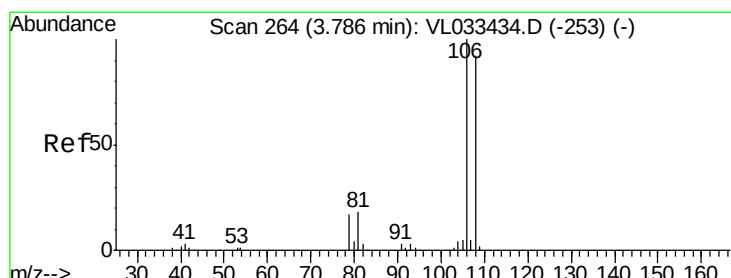
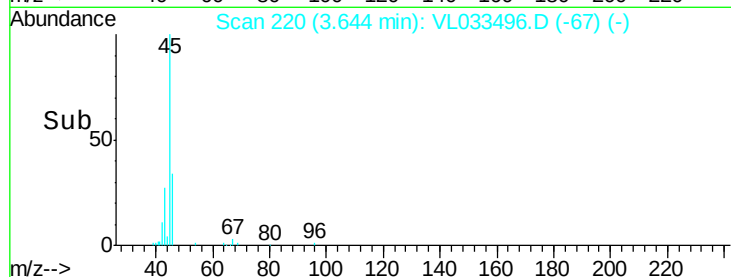
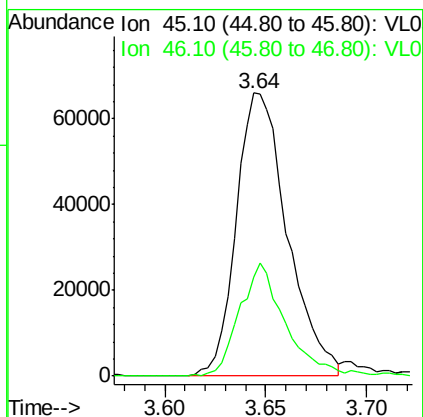
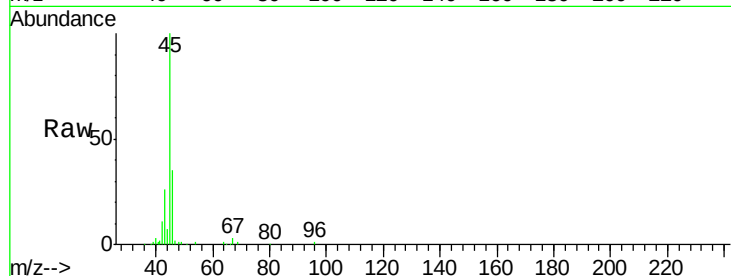
46 36.8 25.4 101.8

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#14

Bromoethene

Concen: 10.425 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

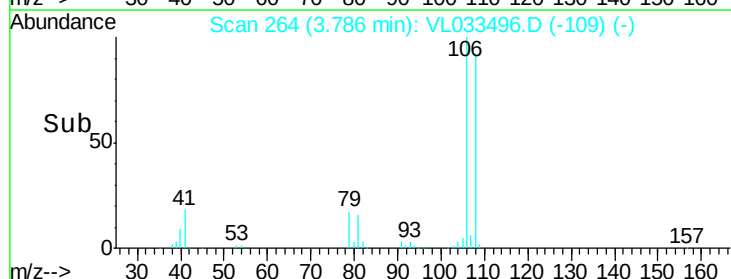
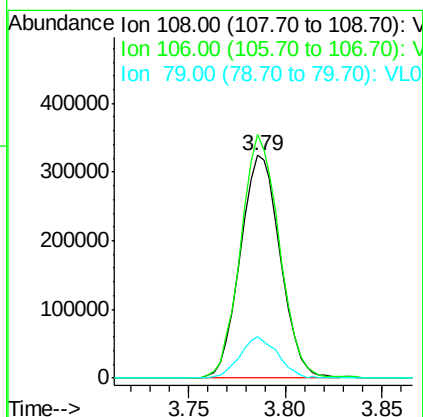
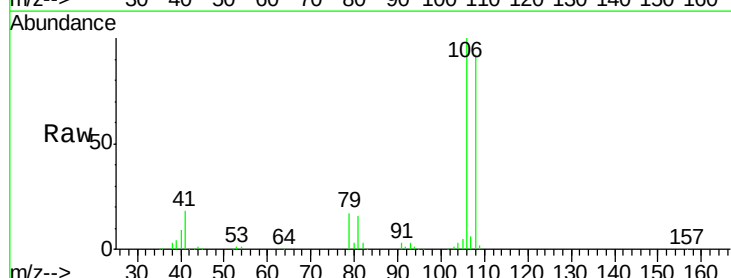
Tgt Ion: 108 Resp: 466008

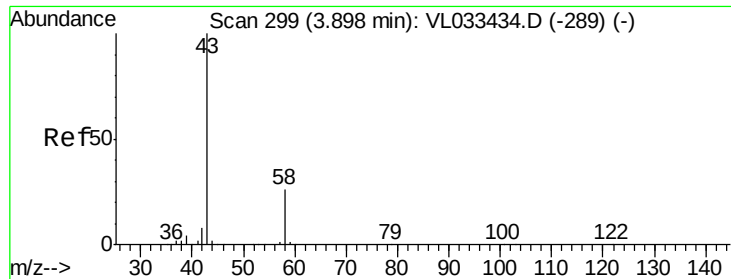
Ion Ratio Lower Upper

108 100

106 106.5 86.4 129.6

79 17.8 15.8 23.8





#15

Acetone

Concen: 8.965 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1000694

Ion Ratio Lower Upper

43 100

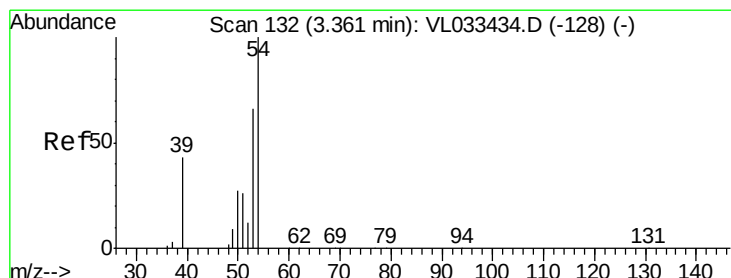
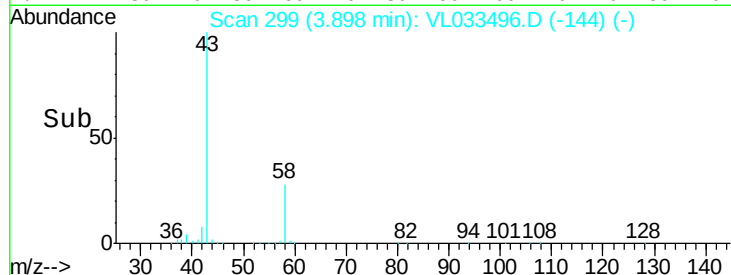
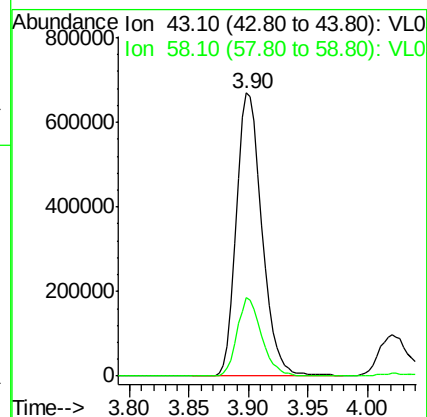
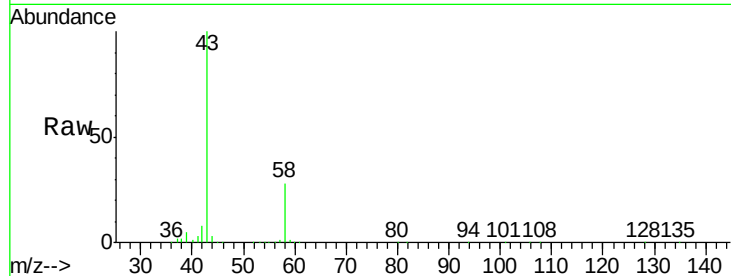
58 26.5 20.5 30.7

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#16

1,3-Butadiene

Concen: 11.340 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033496.D

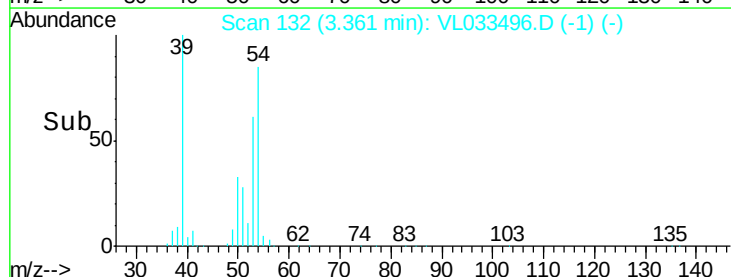
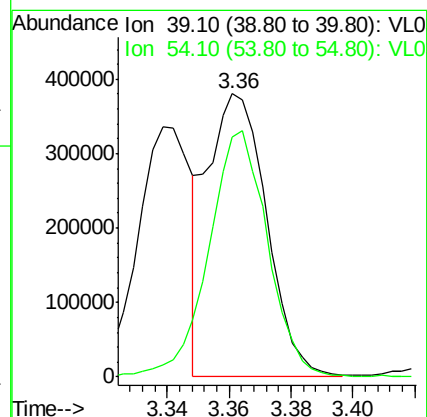
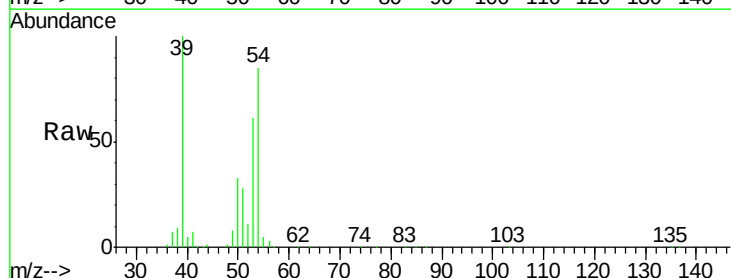
Acq: 29 Mar 2019 9:57

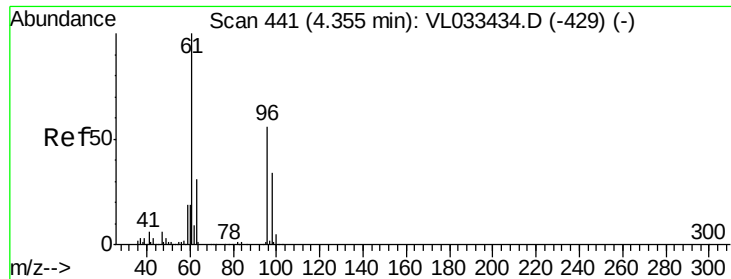
Tgt Ion: 39 Resp: 502054

Ion Ratio Lower Upper

39 100

54 87.9 69.4 104.2





#17

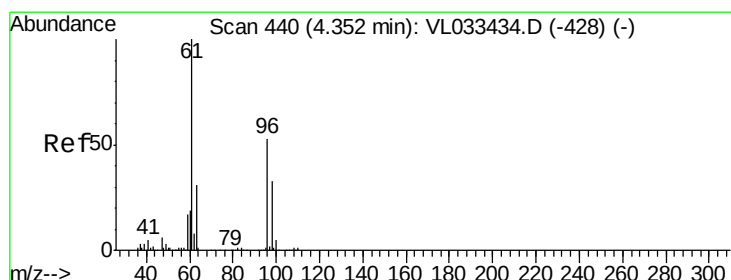
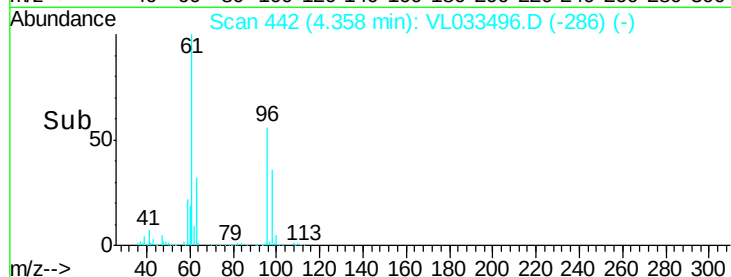
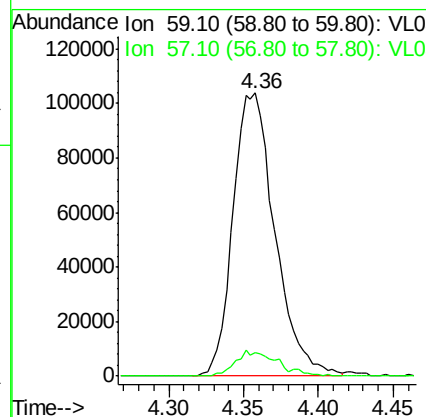
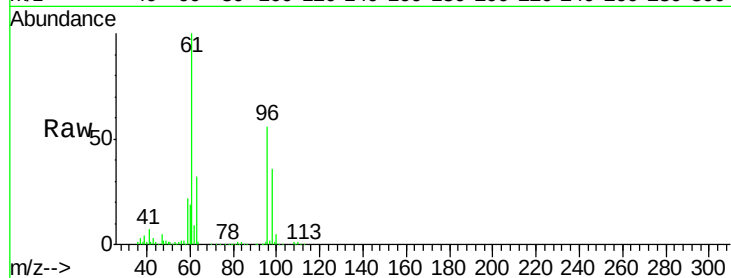
tert-Butyl alcohol
Concen: 9.866 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.1	7.8	11.8

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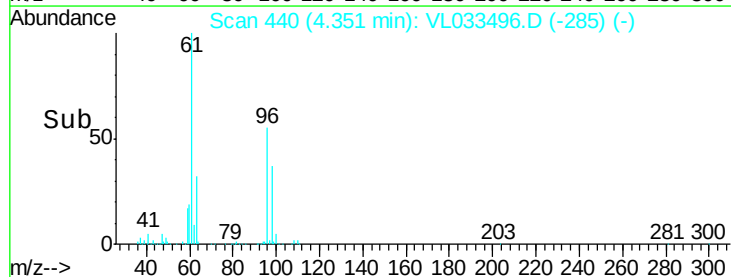
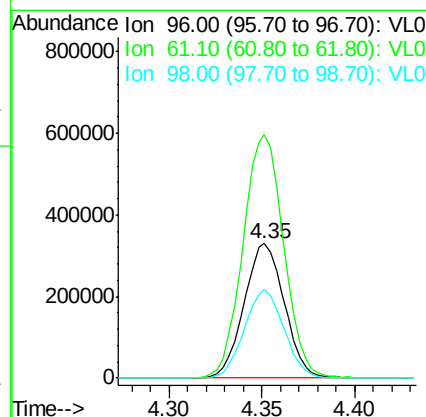
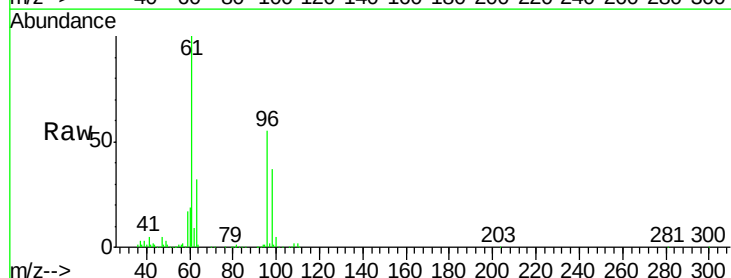
MMDadoda
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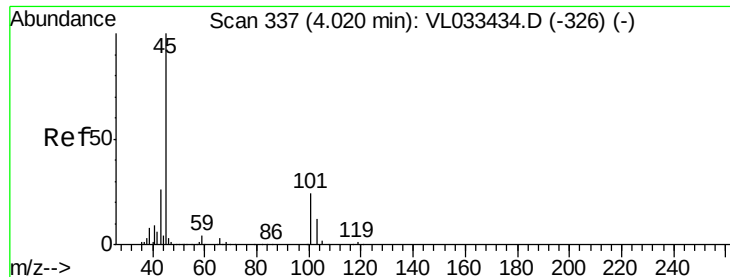


#18

1,1-Dichloroethene
Concen: 10.349 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	181.0	149.8	224.6
98	66.2	48.7	73.1





#19

Isopropyl Alcohol

Concen: 9.561 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 675020

Ion Ratio Lower Upper

45 100

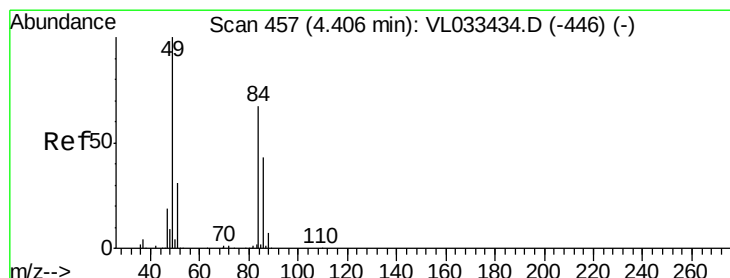
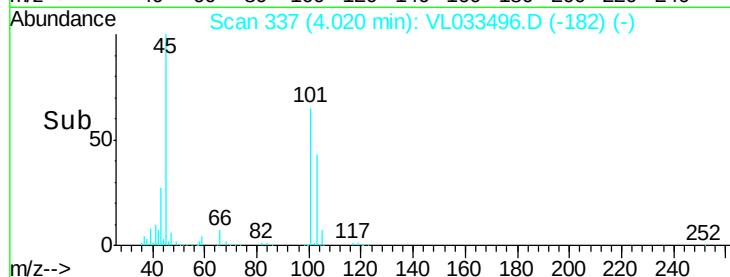
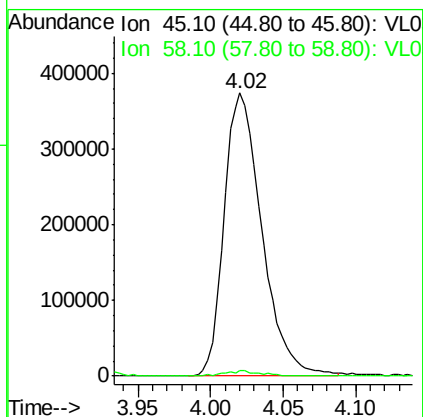
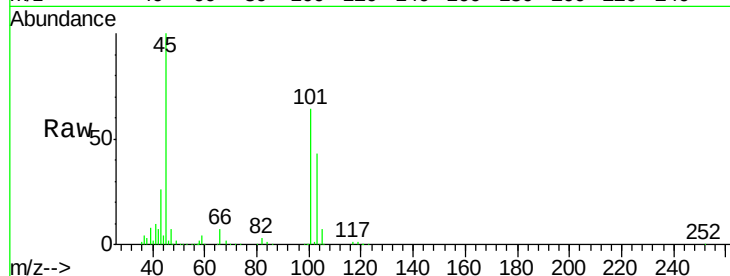
58 2.2 1.4 2.2#

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#20

Methylene Chloride

Concen: 9.177 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion: 84 Resp: 434840

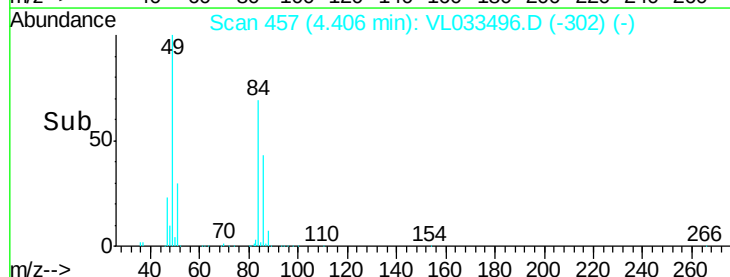
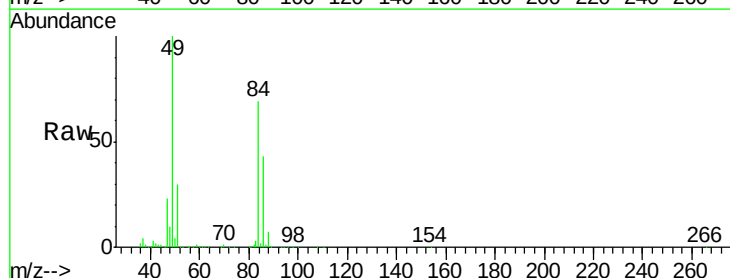
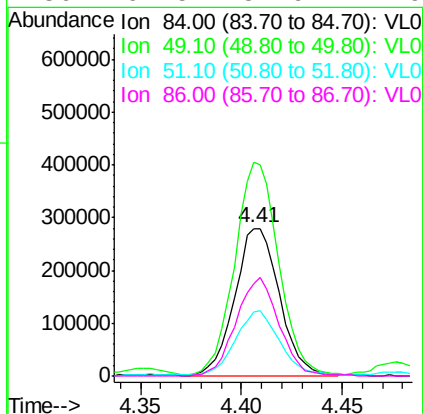
Ion Ratio Lower Upper

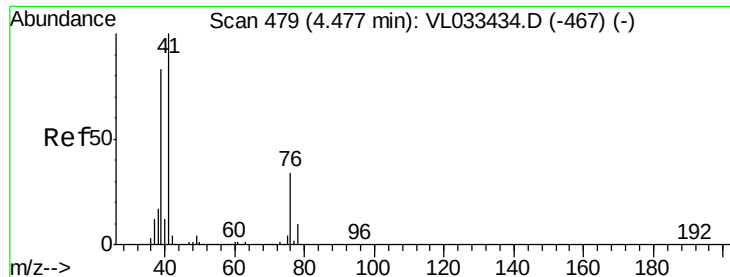
84 100

49 144.1 120.0 180.0

51 42.6 36.7 55.1

86 62.5 51.9 77.9





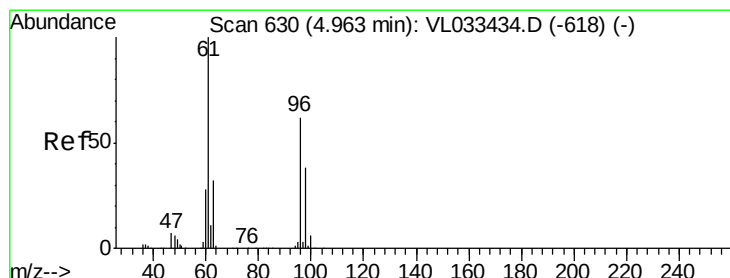
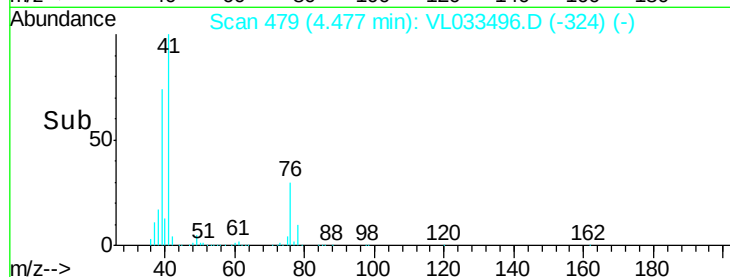
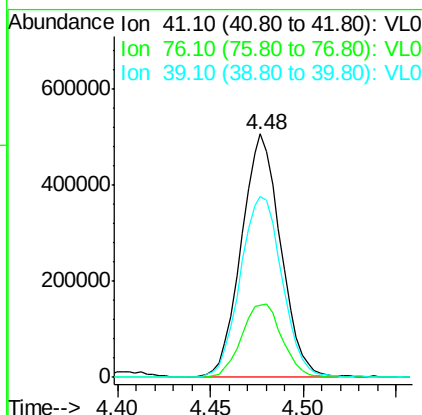
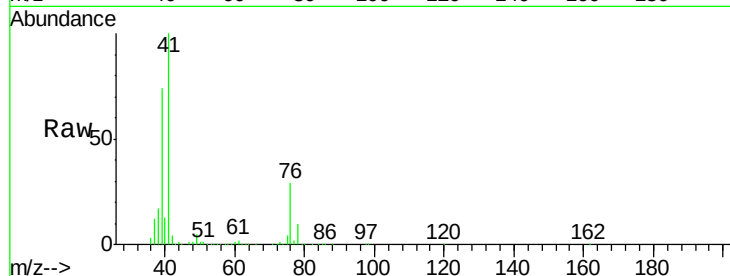
#21
Allvl Chloride
Concen: 10.518 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.3	25.4	38.2
39	79.1	65.3	97.9

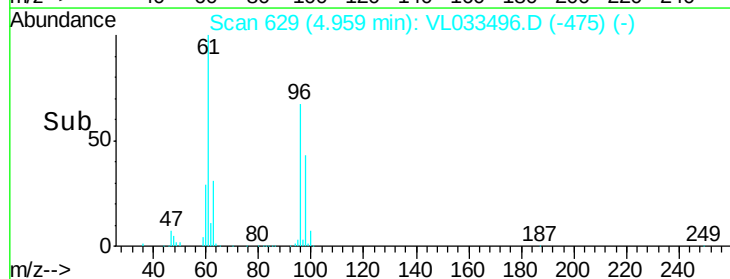
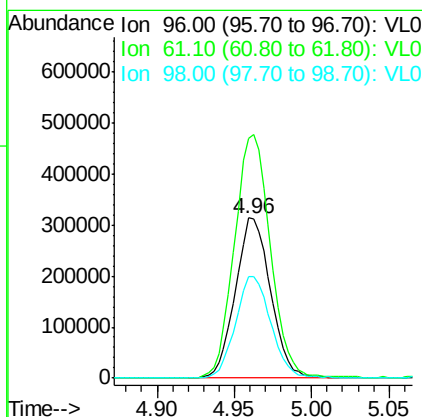
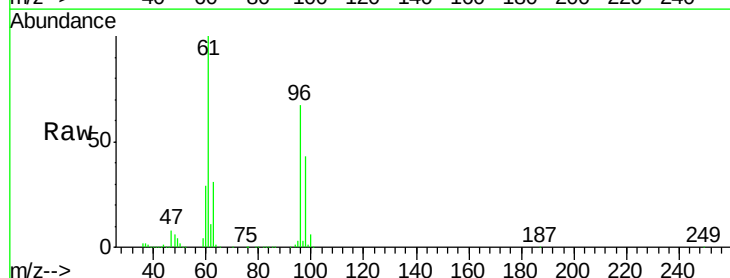
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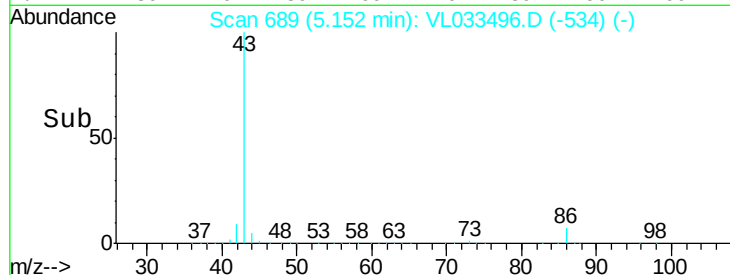
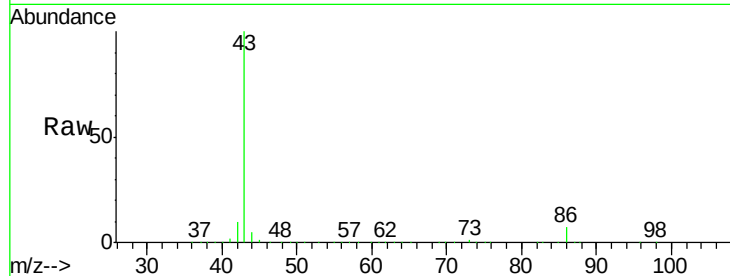
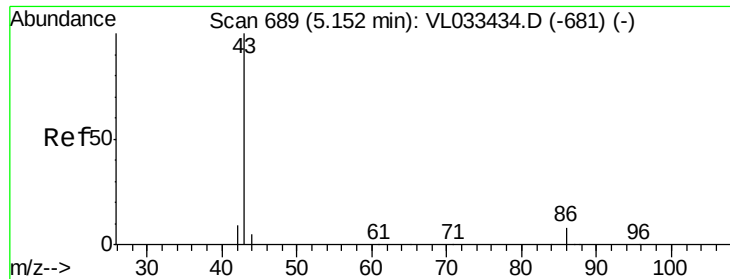
MMDadoda
4/1/2019 4:03:06 AM



#22
trans-1,2-Dichloroethene
Concen: 9.893 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.0	128.9	193.3
98	63.8	49.5	74.3





#23

Vinyl Acetate

Concen: 10.827 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tot Ion: 43 Resp: 1720218

Ion Ratio Lower Upper

43 100

86 7.4 5.6 8.4

42 9.5 8.0 12.0

44 5.1 3.9 5.9

Instrument :

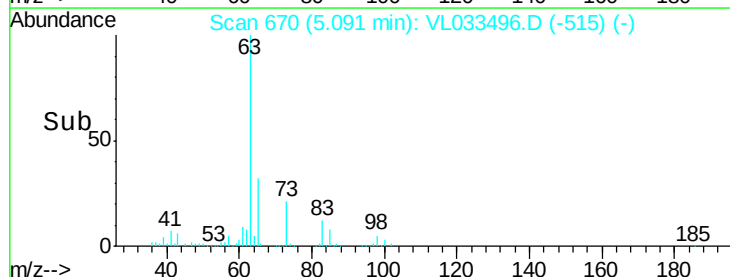
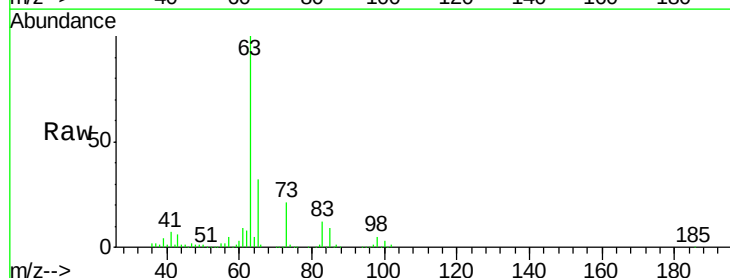
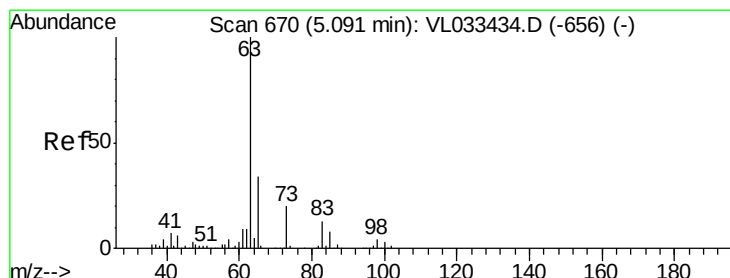
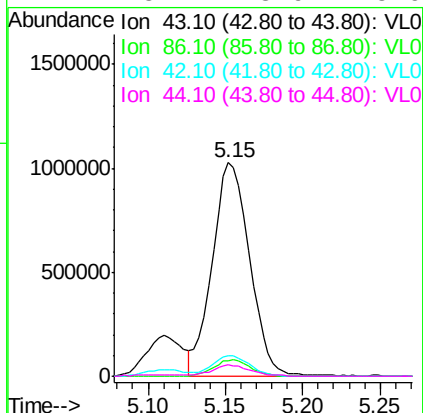
MSVOA_L

ClientSampleId :

VSTDCCC010

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4/1/2019 4:03:06 AM



#24

1,1-Dichloroethane

Concen: 9.783 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

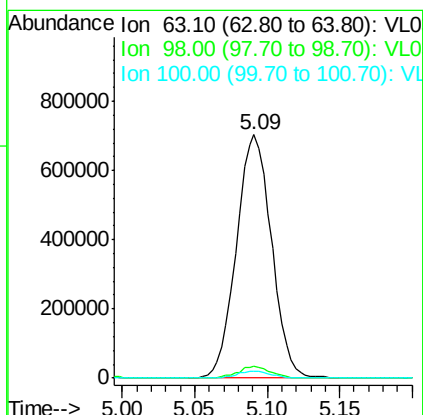
Tgt Ion: 63 Resp: 1180630

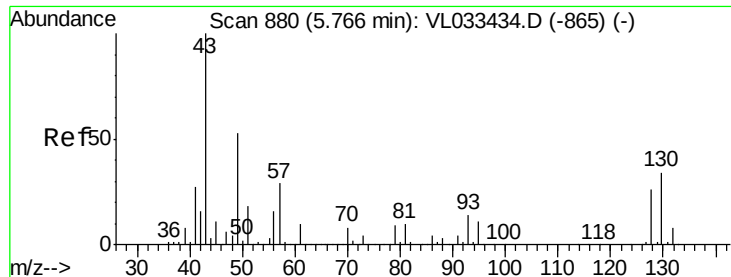
Ion Ratio Lower Upper

63 100

98 4.9 2.2 6.6

100 2.7 1.5 4.4





#25

Ethyl Acetate

Concen: 10.139 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2099703

Ion Ratio Lower Upper

43 100

45 9.9 7.8 11.6

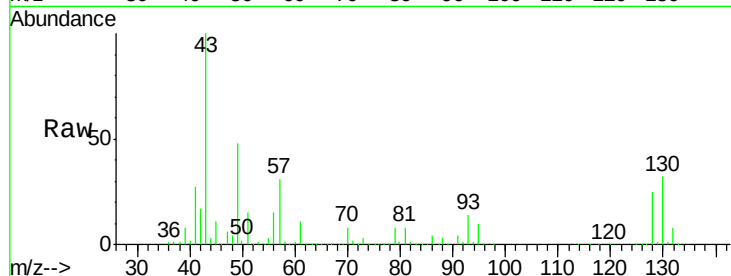
61 9.5 7.3 10.9

70 7.1 5.6 8.4

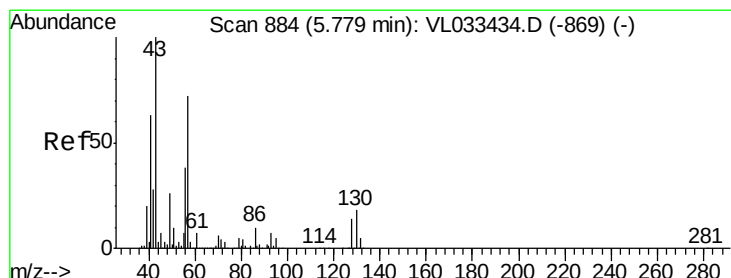
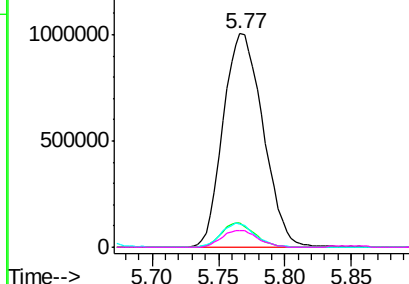
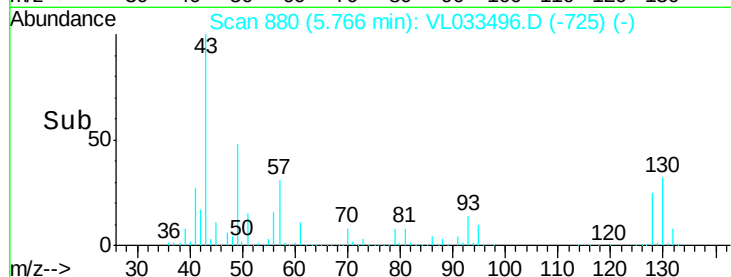
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.305 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion: 57 Resp: 948899

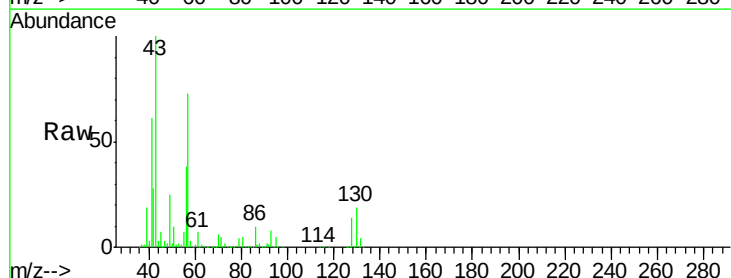
Ion Ratio Lower Upper

57 100

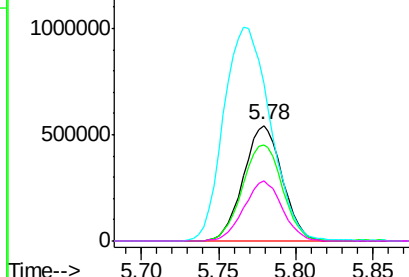
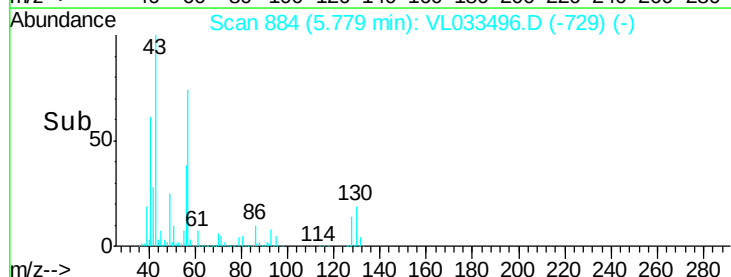
41 86.3 70.7 106.1

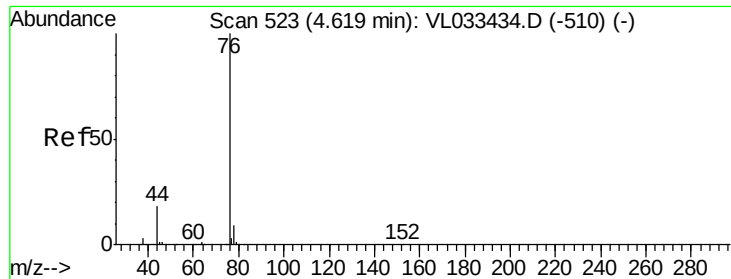
43 222.4 182.6 274.0

56 51.8 42.0 63.0



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





#27

Carbon Disulfide

Concen: 10.694 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1171007

Ion Ratio Lower Upper

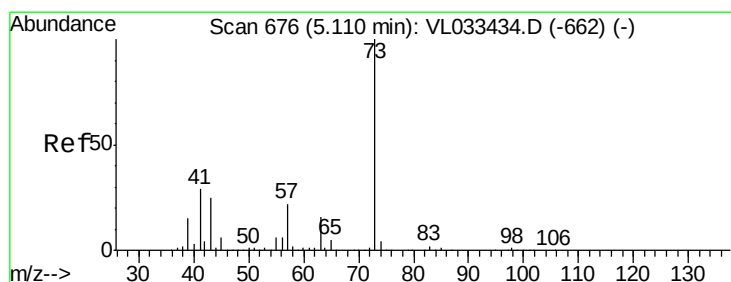
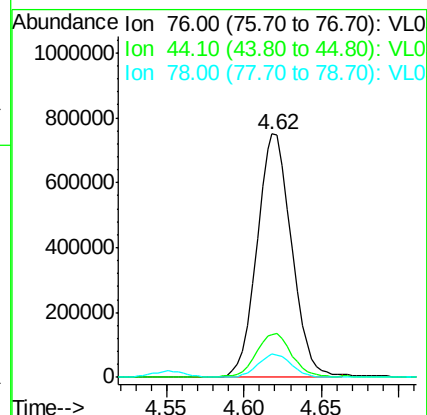
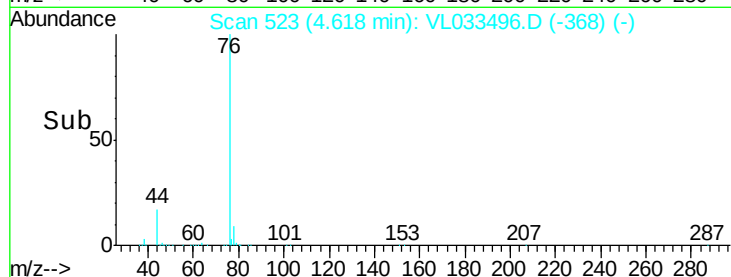
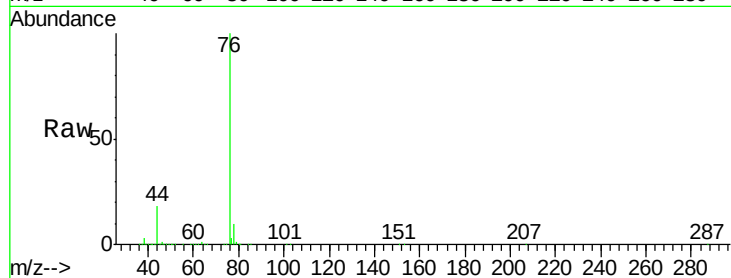
76 100

44 18.3 14.8 22.2

78 9.3 7.6 11.4

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#28

Methyl tert-Butyl Ether

Concen: 10.574 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033496.D

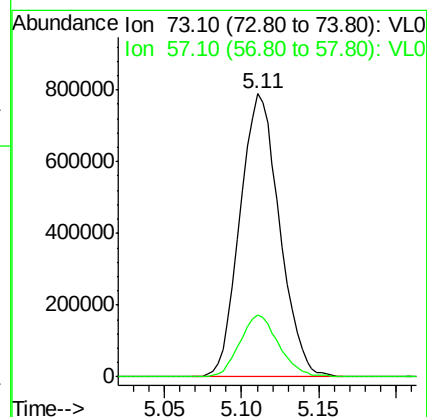
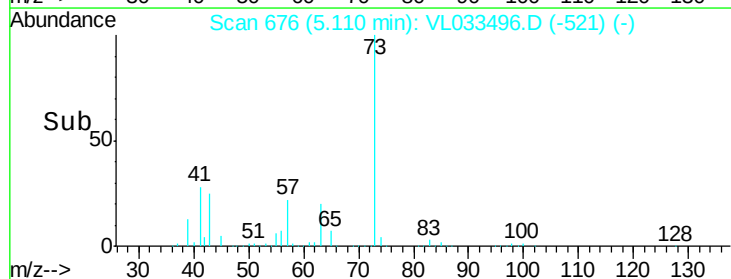
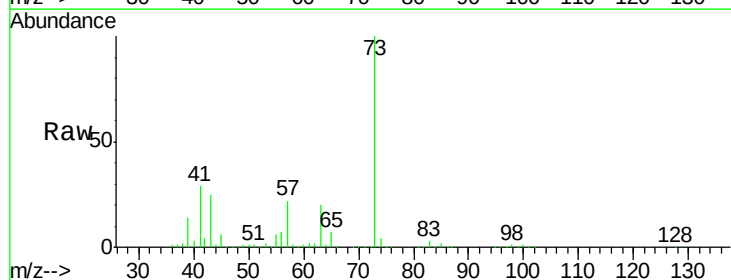
Acq: 29 Mar 2019 9:57

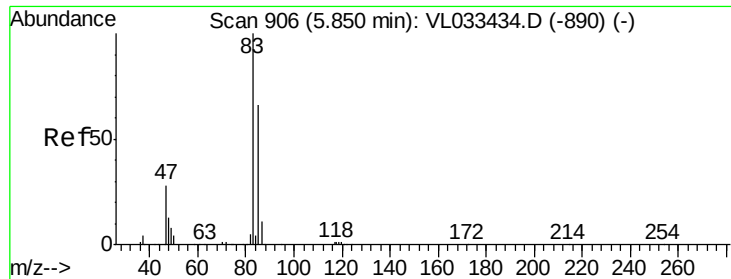
Tgt Ion: 73 Resp: 1402386

Ion Ratio Lower Upper

73 100

57 21.6 17.4 26.2





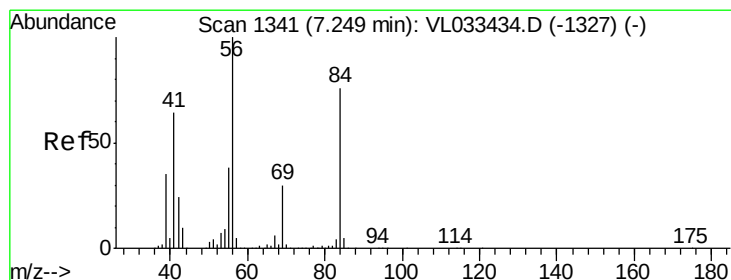
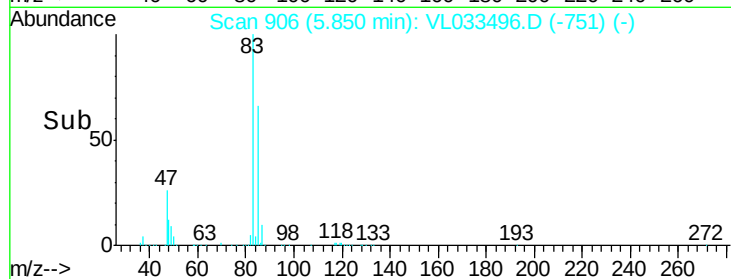
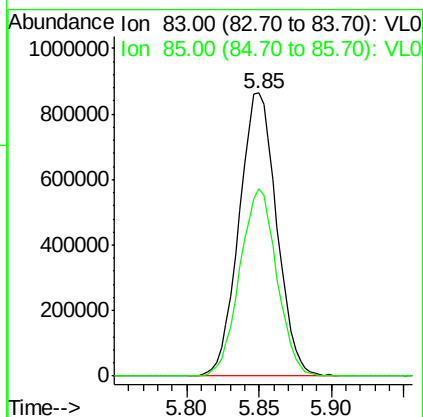
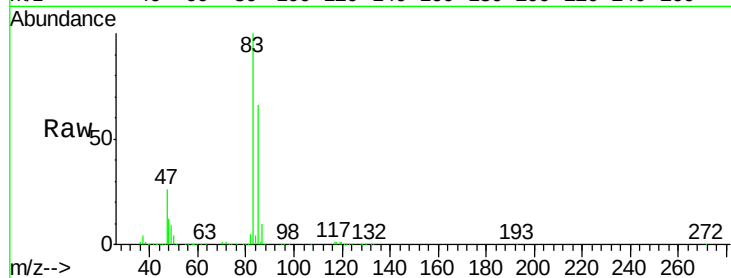
#29
Chloroform
Concen: 9.872 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1558317
Ion Ratio Lower Upper
83 100
85 66.1 52.6 79.0

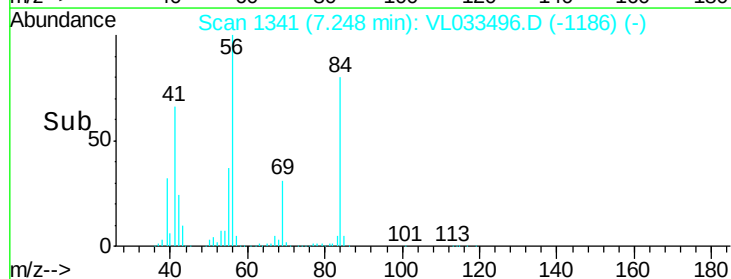
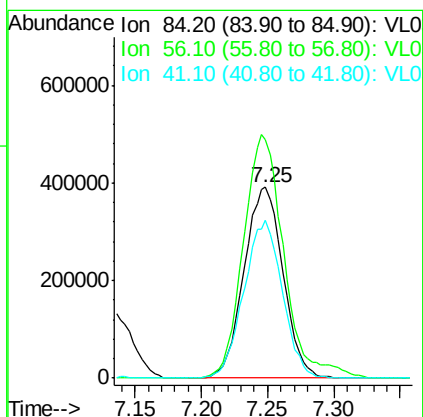
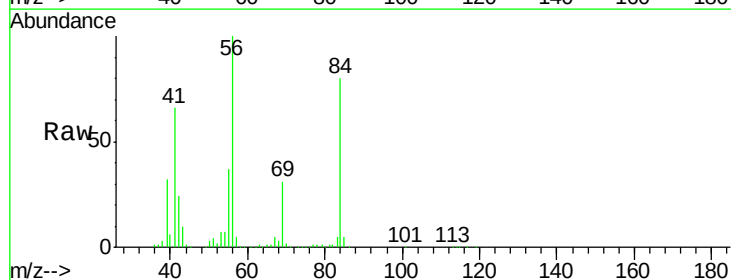
Manual Integrations
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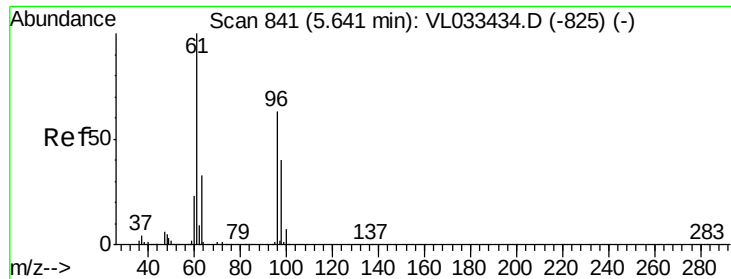
MMDadoda
4/1/2019 4:03:06 AM



#30
Cyclohexane
Concen: 10.969 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 84 Resp: 799080
Ion Ratio Lower Upper
84 100
56 132.8 109.7 164.5
41 81.7 68.2 102.2





#31

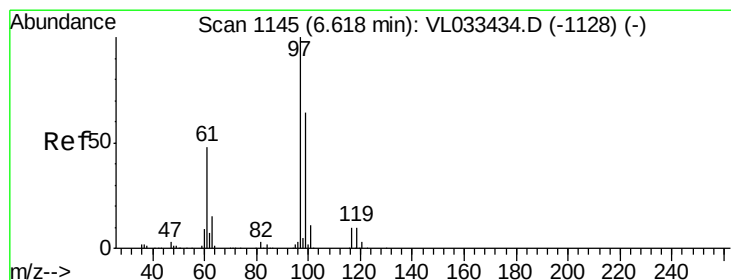
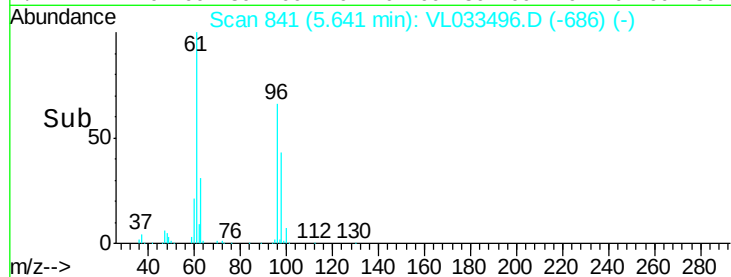
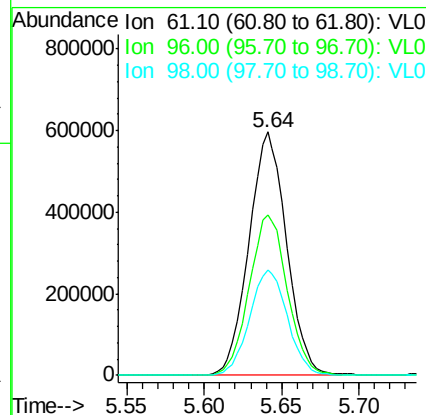
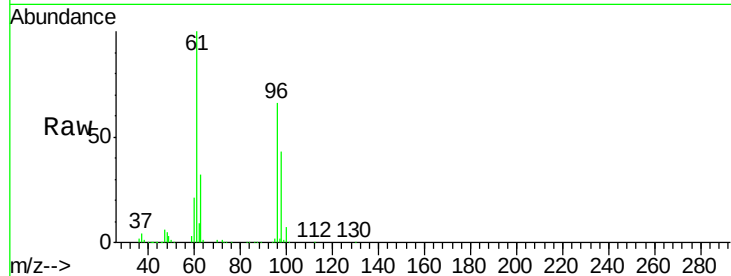
cis-1,2-Dichloroethene
 Concen: 11.033 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.9	50.6	76.0
98	43.5	32.2	48.2

Manual Integrations
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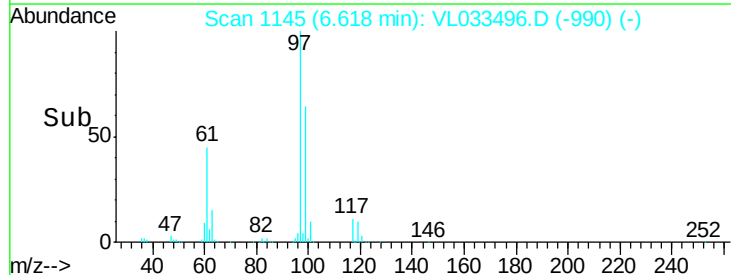
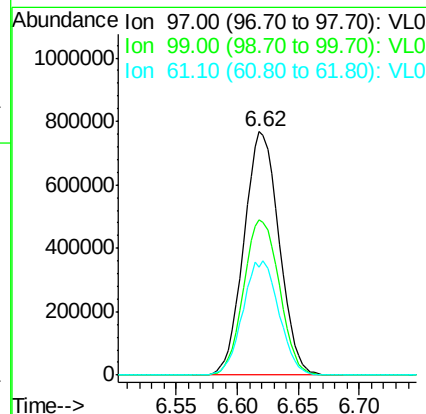
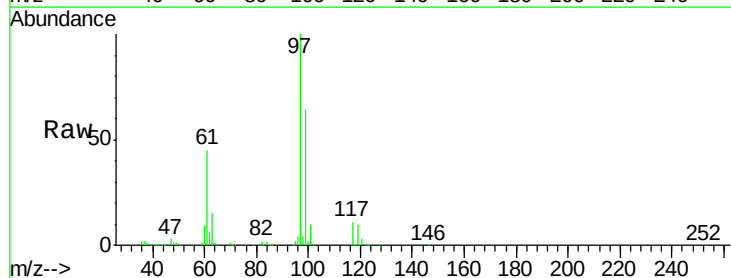
MMDadoda
 4/1/2019 4:03:06 AM

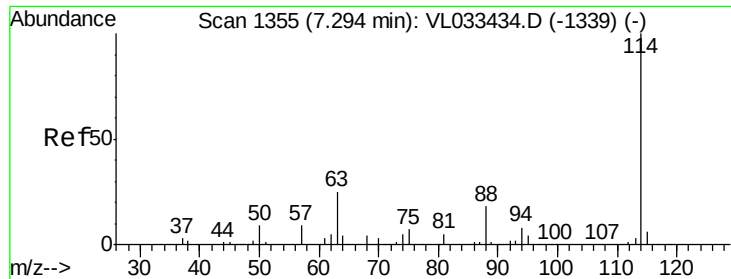


#32

1,1,1-Trichloroethane
 Concen: 10.147 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.5	77.3
61	48.2	38.8	58.2





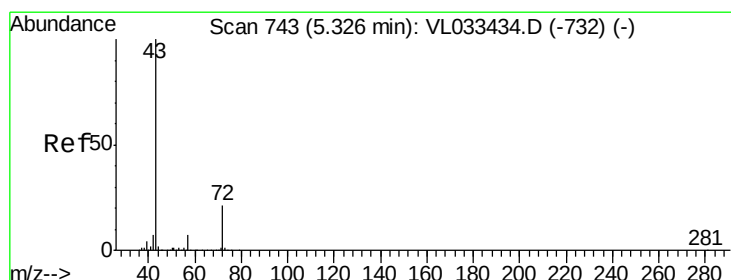
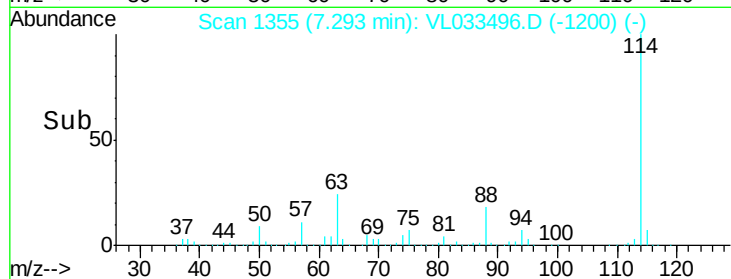
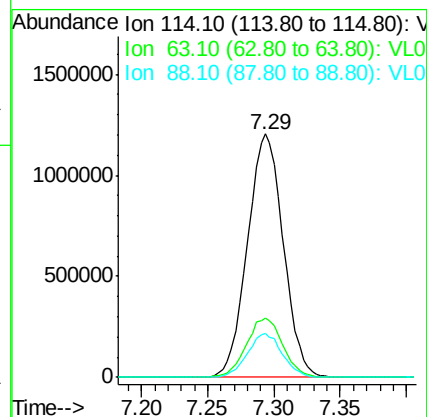
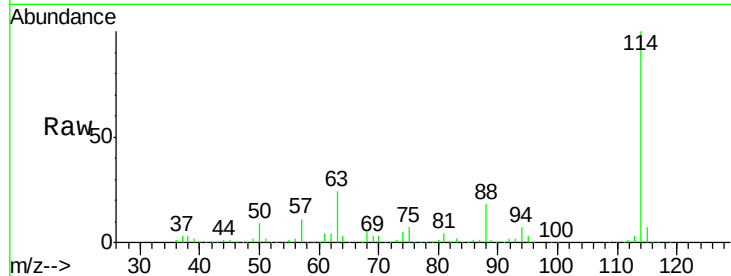
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	21.5	32.3
88	17.7	14.5	21.7

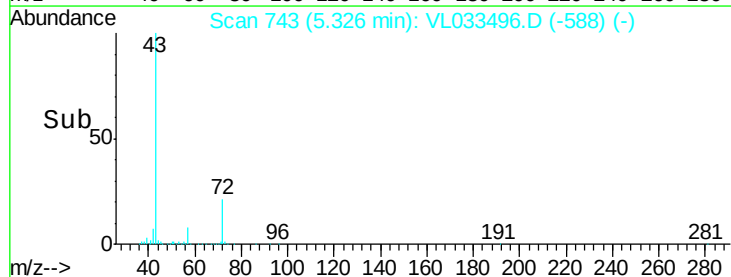
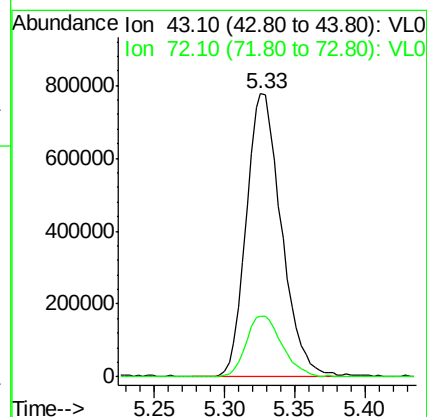
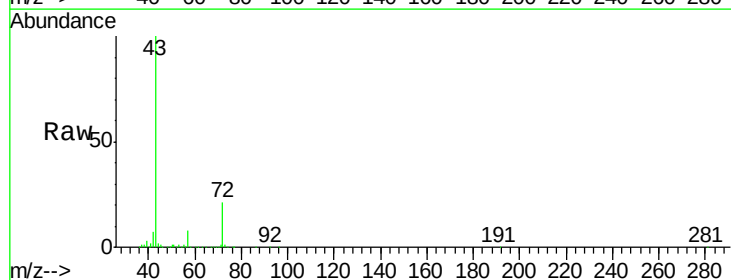
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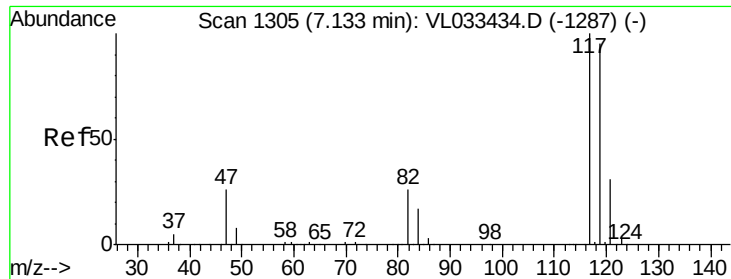
MMDadoda
 4/1/2019 4:03:06 AM



#34
 2-Butanone
 Concen: 9.993 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	17.4	26.2





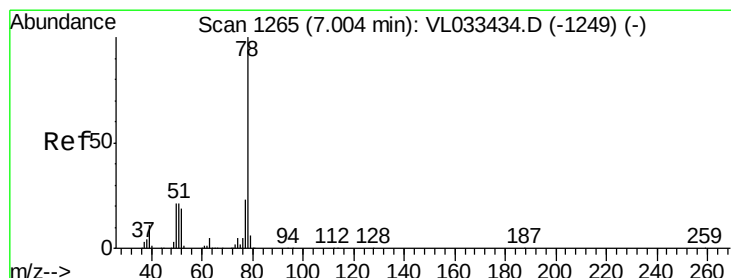
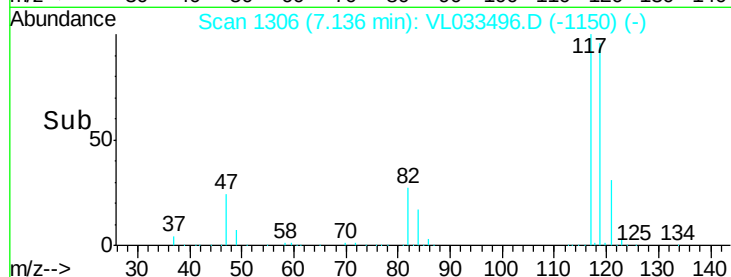
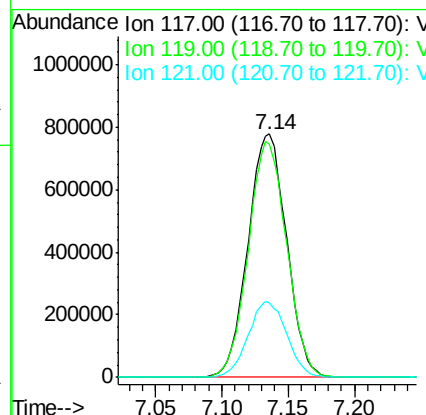
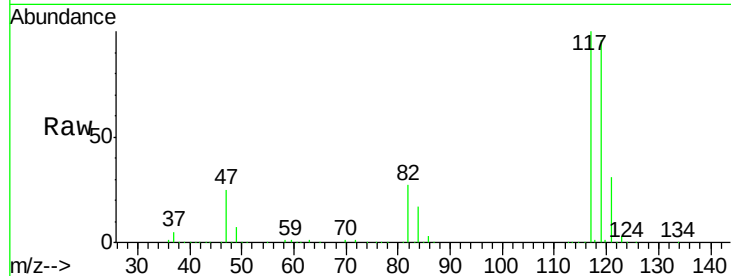
#35
Carbon Tetrachloride
Concen: 9.871 ppbv
RT: 7.14 min Scan# 1306
Delta R.T. 0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 1579775
Ion Ratio Lower Upper
117 100
119 95.8 75.8 113.8
121 30.7 24.7 37.1

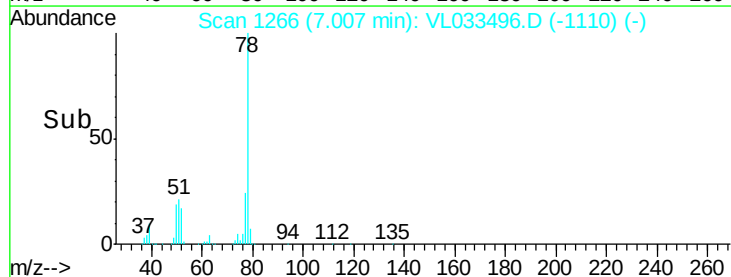
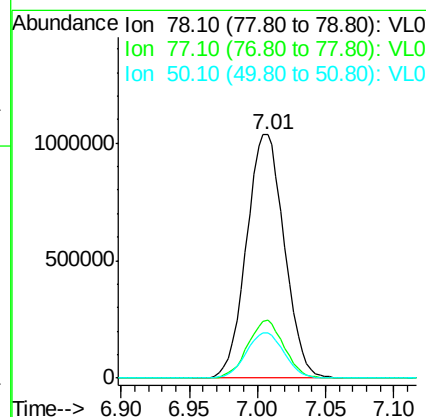
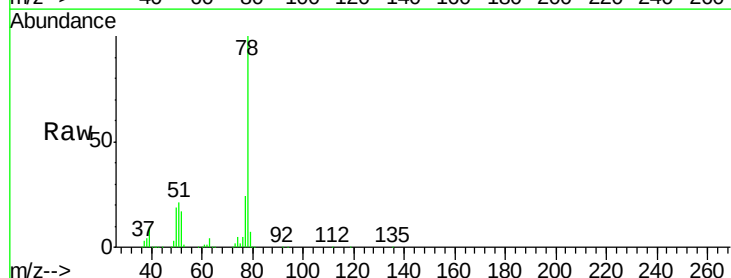
Manual Integrations
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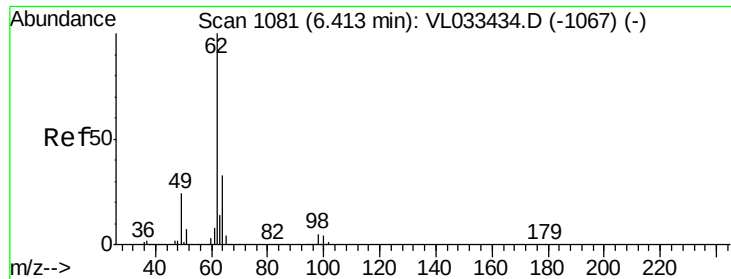
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#36
Benzene
Concen: 10.508 ppbv
RT: 7.01 min Scan# 1266
Delta R.T. 0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 78 Resp: 1992271
Ion Ratio Lower Upper
78 100
77 23.7 18.1 27.1
50 18.6 16.7 25.1





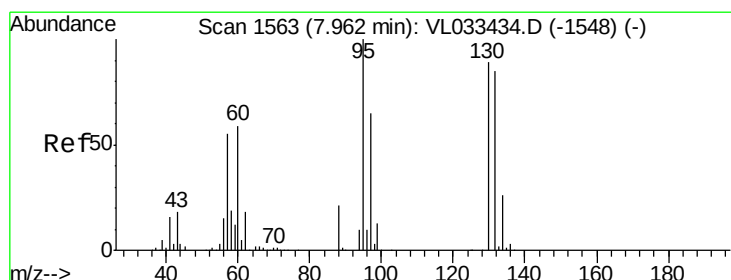
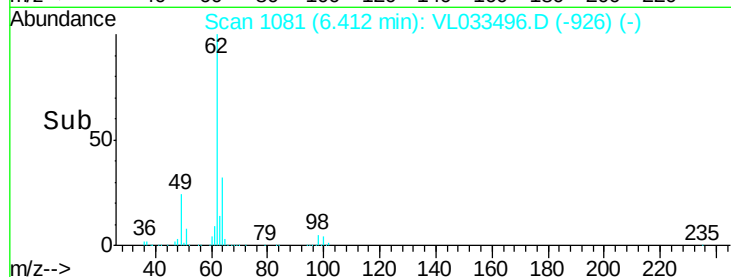
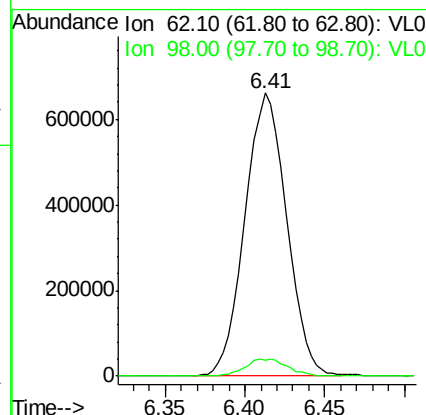
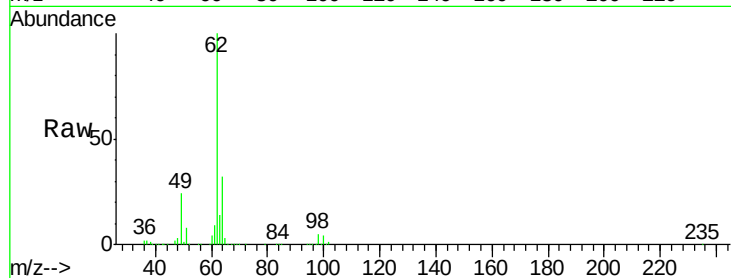
#37
 1,2-Dichloroethane
 Concen: 9.301 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1182047
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.4 6.6

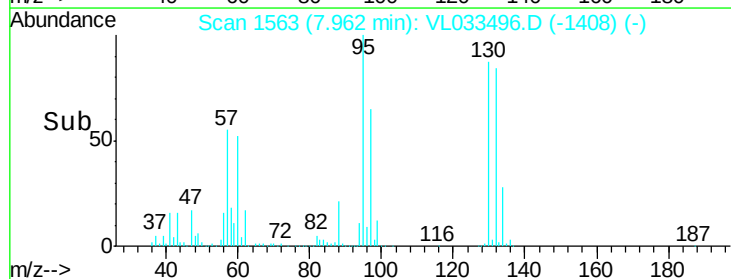
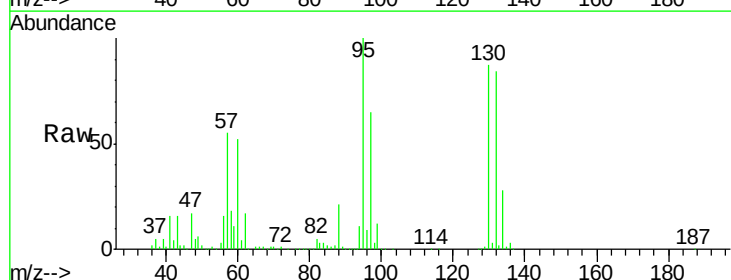
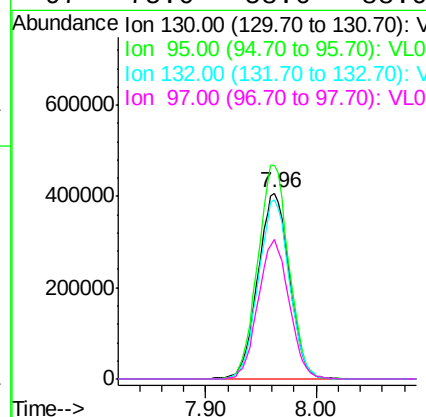
Manual Integrations
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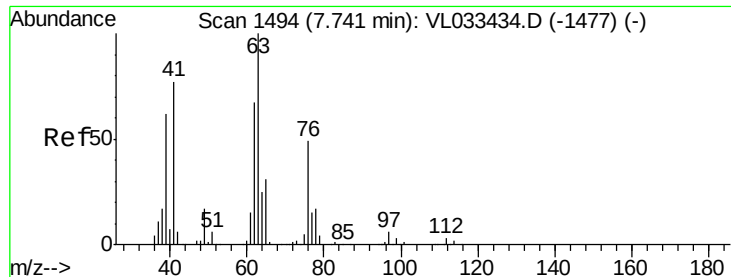
MMDadoda
 4/1/2019 4:03:06 AM



#38
 Trichloroethene
 Concen: 11.289 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion:130 Resp: 805555
 Ion Ratio Lower Upper
 130 100
 95 115.3 89.8 134.8
 132 96.8 76.6 115.0
 97 75.0 58.6 88.0





#39

1,2-Dichloropropane

Concen: 10.023 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

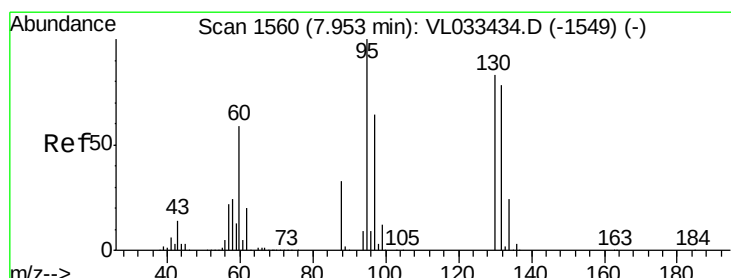
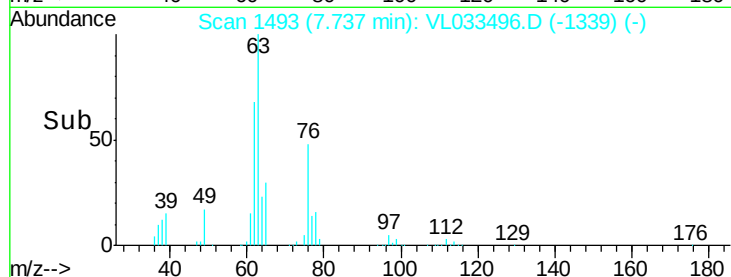
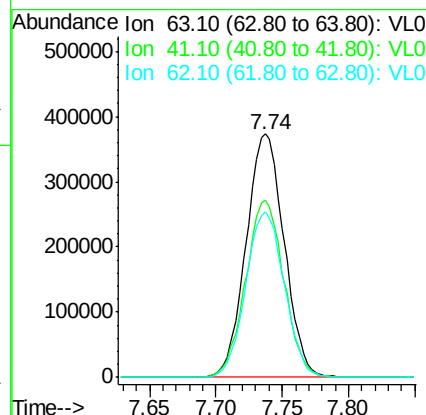
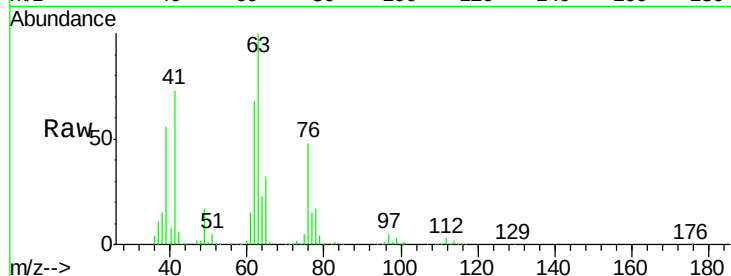
ClientSampleId :

VSTDCCC010

Tot Ion:	63	Resp:	744436
Ion	Ratio	Lower	Upper
63	100		
41	72.9	61.2	91.8
62	67.7	54.0	81.0

Manual Integrations
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MMDadoda
4/1/2019 4:03:06 AM



#40

1,4-Dioxane

Concen: 10.694 ppbv

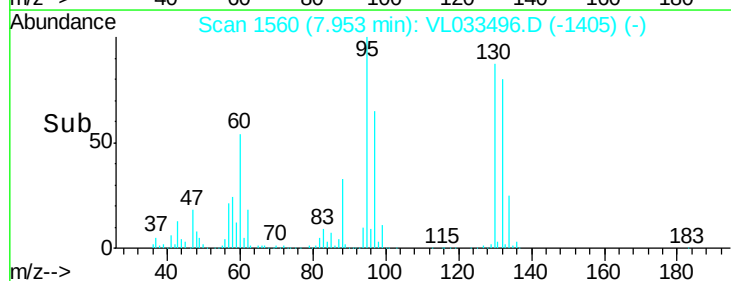
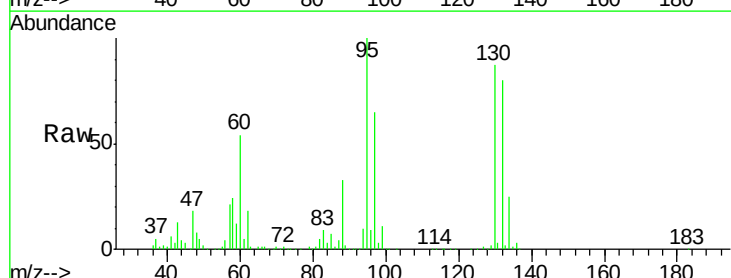
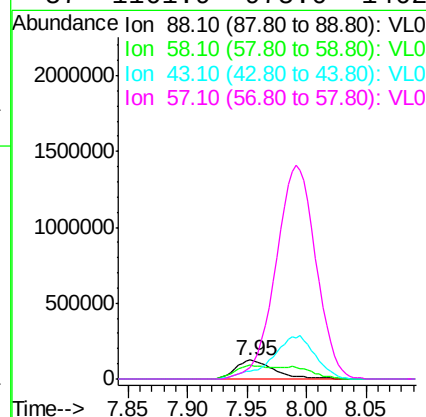
RT: 7.95 min Scan# 1560

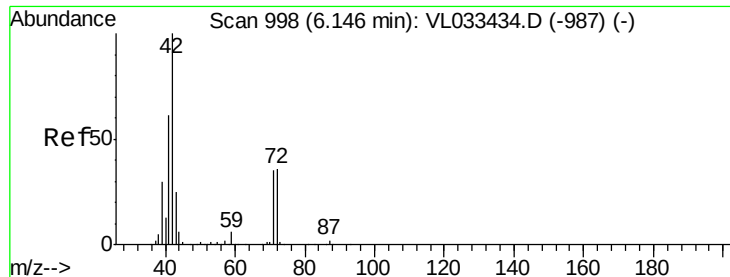
Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion:	88	Resp:	283275
Ion	Ratio	Lower	Upper
88	100		
58	122.3	105.6	158.4
43	254.7	216.7	325.1
57	1161.9	975.0	1462.4





#41

Tetrahydrofuran

Concen: 10.578 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

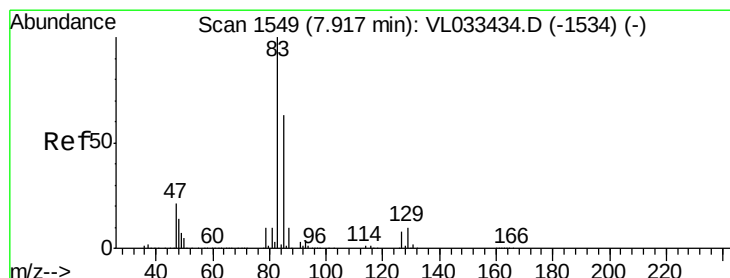
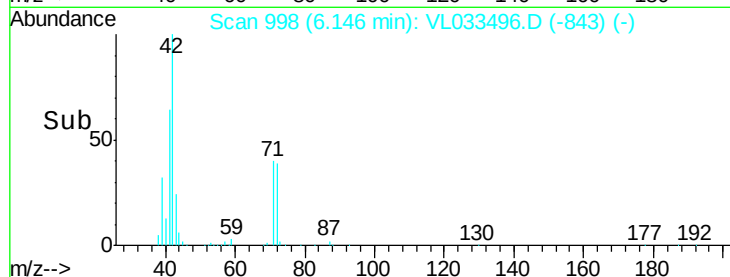
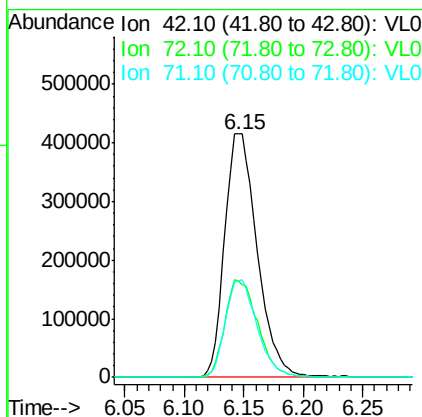
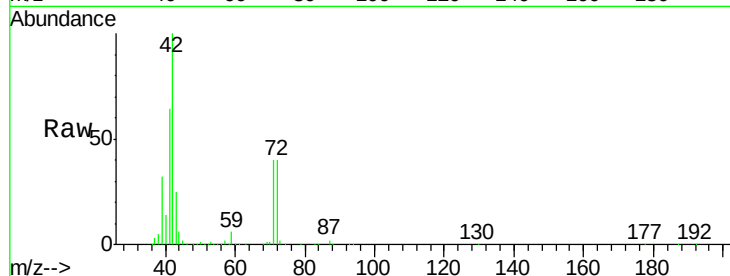
ClientSampled :

VSTDCCC010

Tot Ion:	42	Resp:	789868
Ion Ratio		Lower	Upper
42	100		
72	40.5	30.2	45.2
71	39.3	29.4	44.2

Manual Integrations
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MMDadoda
4/1/2019 4:03:06 AM



#42

Bromodichloromethane

Concen: 9.889 ppbv

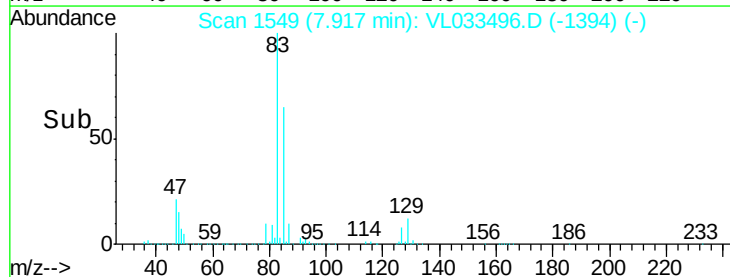
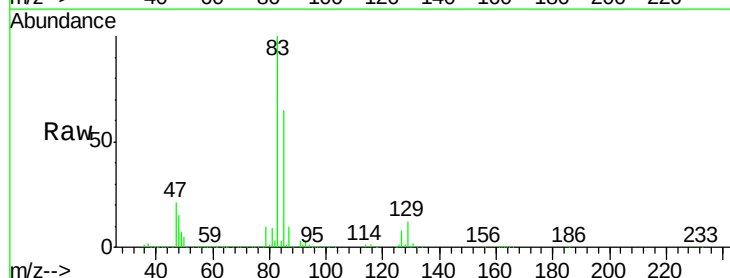
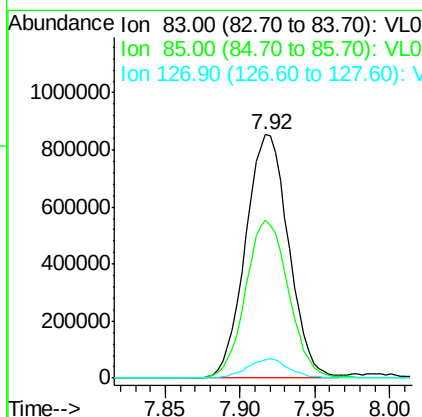
RT: 7.92 min Scan# 1549

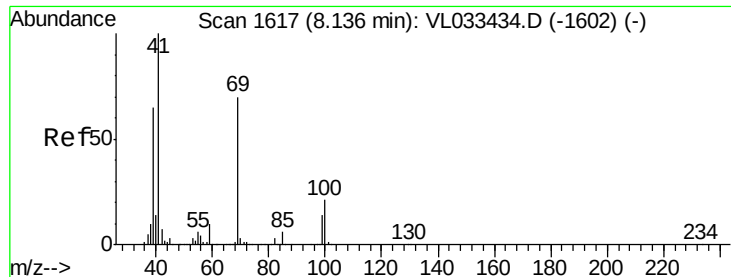
Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion:	83	Resp:	1711700
Ion Ratio		Lower	Upper
83	100		
85	65.1	50.7	76.1
127	7.7	6.6	9.8





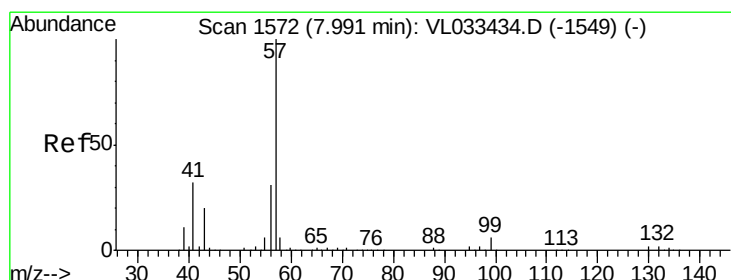
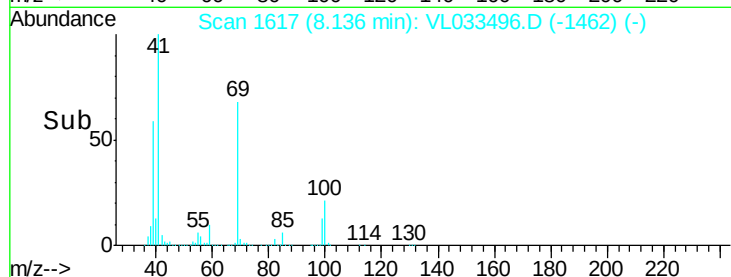
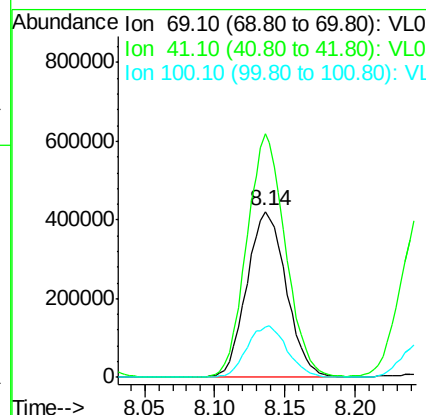
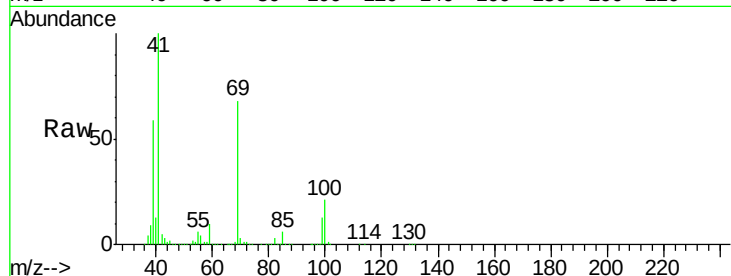
#43
Methvl Methacrylate
Concen: 10.752 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
69	100		
41	143.3	116.6	174.8
100	31.7	24.4	36.6

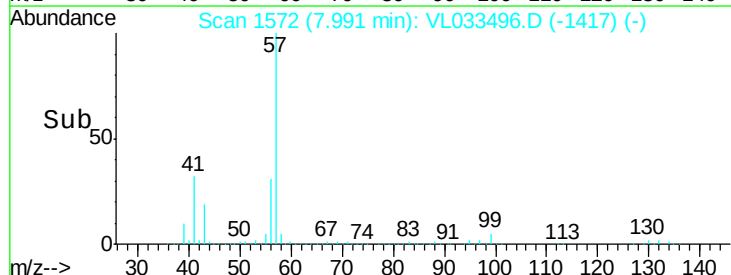
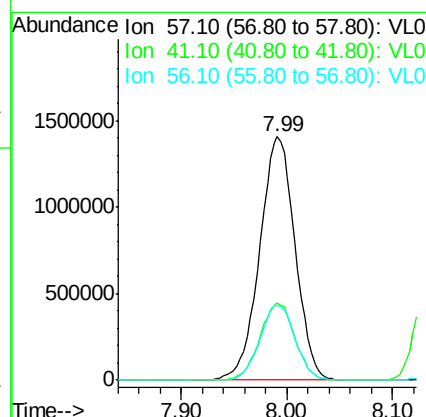
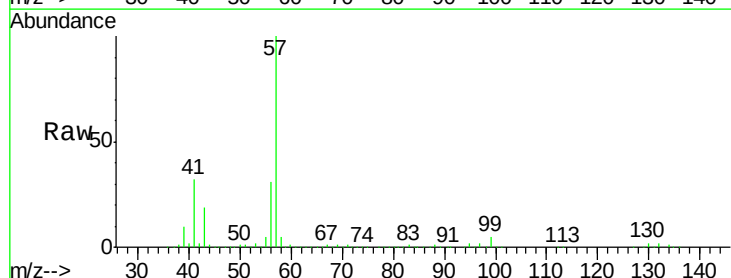
Manual Integrations
APPROVED

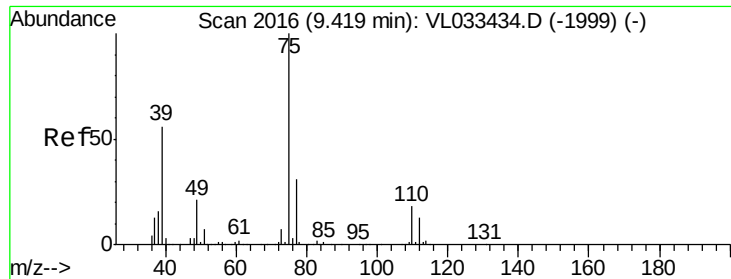
MMDadoda
4/1/2019 4:03:06 AM



#44
2,2,4-Trimethylpentane
Concen: 9.923 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.5	26.0	39.0
56	30.6	24.6	37.0





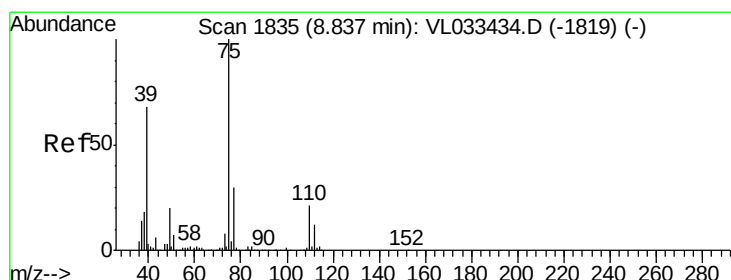
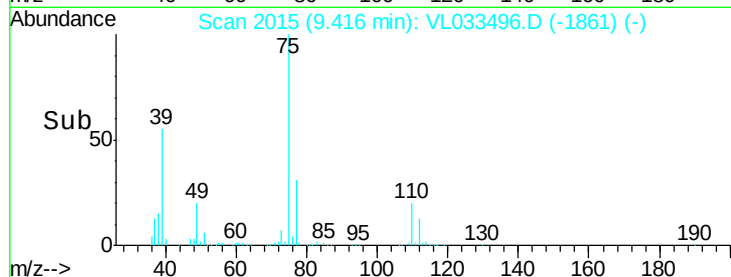
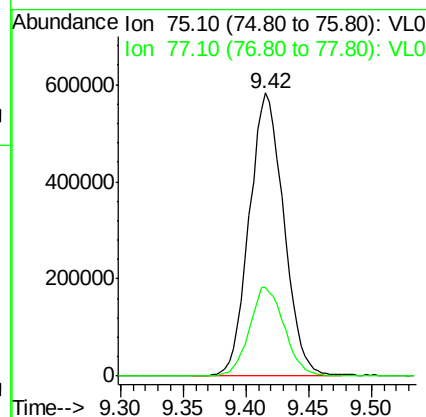
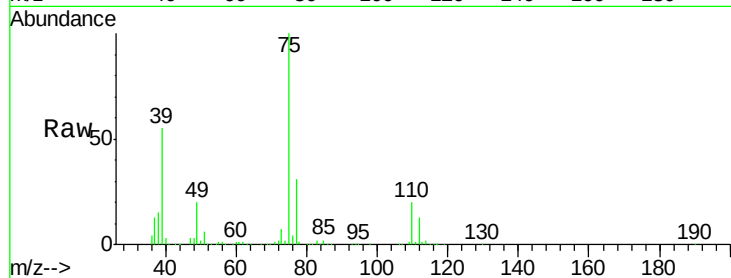
#45
 t-1,3-Dichloropropene
 Concen: 11.840 ppbv
 RT: 9.42 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 75 Resp: 1119101
 Ion Ratio Lower Upper
 75 100
 77 31.2 24.5 36.7

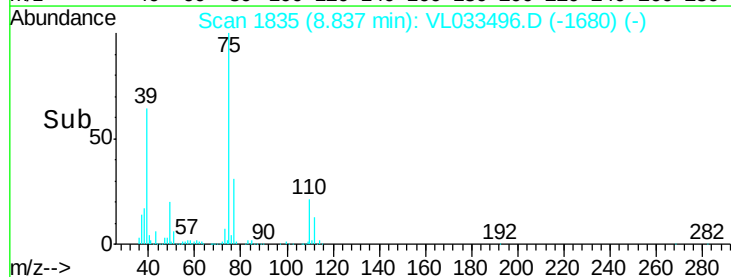
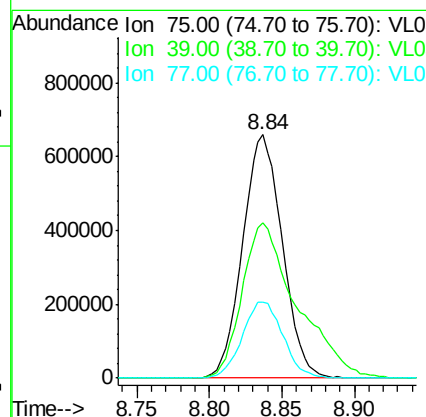
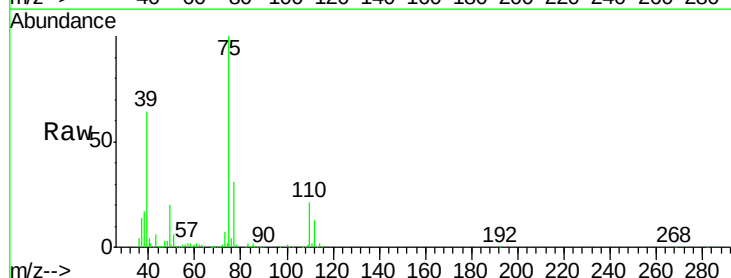
Manual Integrations
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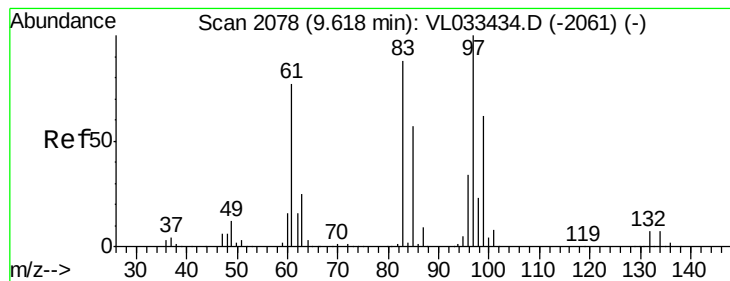
MMDadoda
 4/1/2019 4:03:06 AM



#46
 cis-1,3-Dichloropropene
 Concen: 11.379 ppbv
 RT: 8.84 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion: 75 Resp: 1256013
 Ion Ratio Lower Upper
 75 100
 39 64.0 54.1 81.1
 77 31.1 23.9 35.9





#47

1,1,2-Trichloroethane

Concen: 10.161 ppbv

RT: 9.61 min Scan# 2077

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 856950

Ion Ratio Lower Upper

97 100

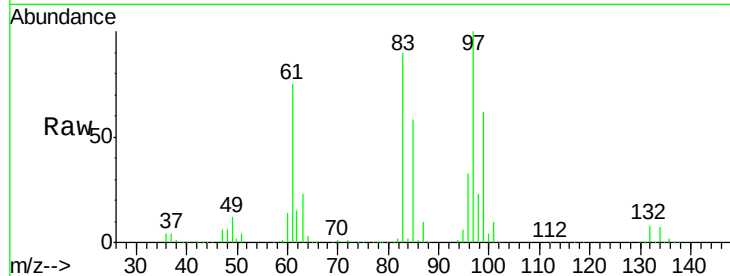
83 90.4 70.5 105.7

85 57.5 45.6 68.4

99 61.5 49.4 74.0

Manual Integrations
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MMDadoda
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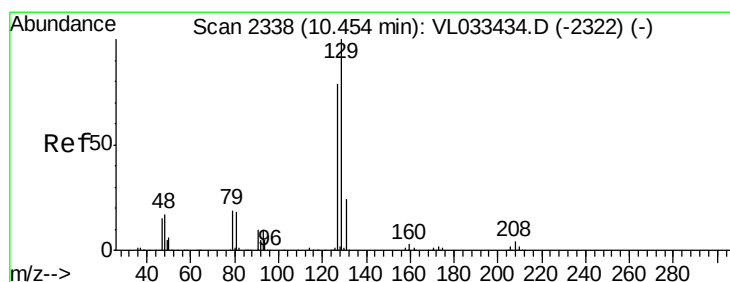
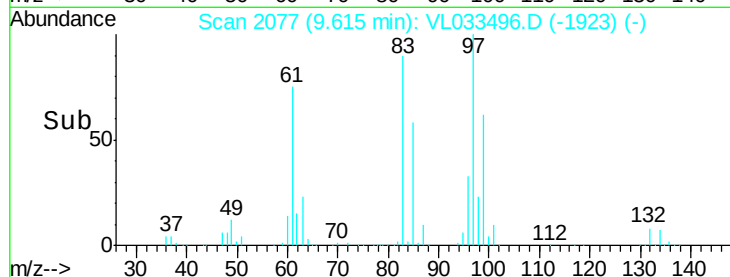
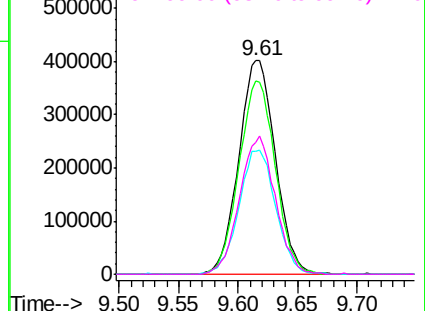
Abundance

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: 10.968 ppbv

RT: 10.45 min Scan# 2338

Delta R.T. -0.00 min

Lab File: VL033496.D

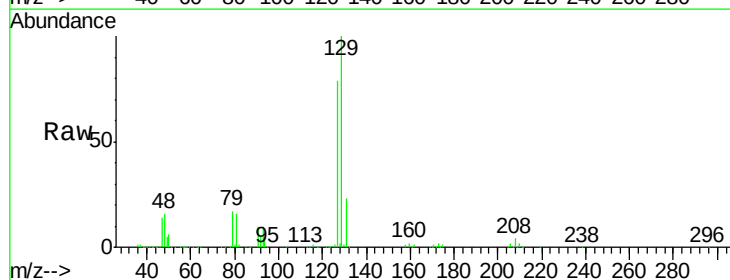
Acq: 29 Mar 2019 9:57

Tgt Ion: 129 Resp: 1560322

Ion Ratio Lower Upper

129 100

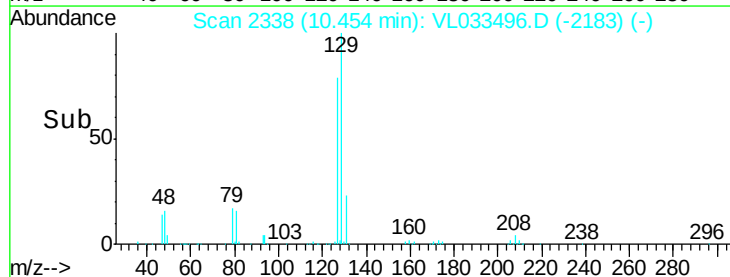
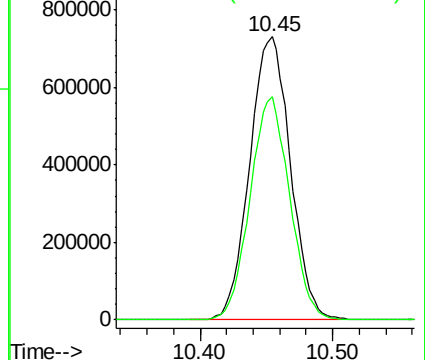
127 76.6 39.1 117.2

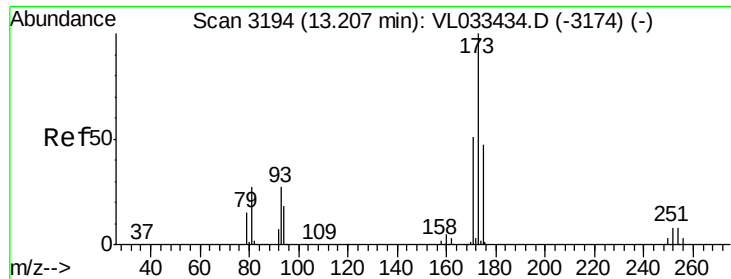


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.287 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1398011

Ion Ratio Lower Upper

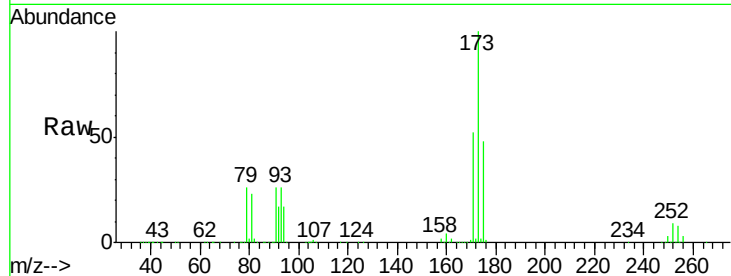
173 100

175 48.8 39.3 58.9

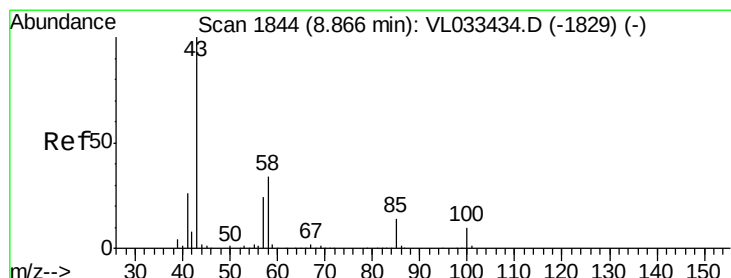
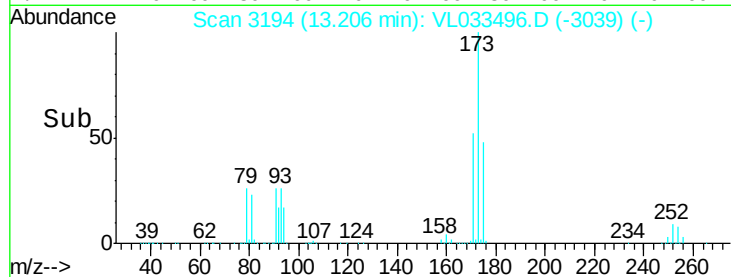
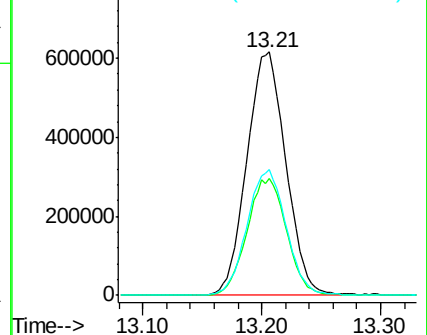
171 52.0 41.2 61.8

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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: 10.231 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033496.D

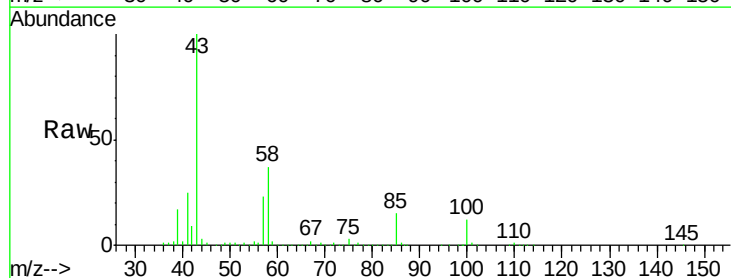
Acq: 29 Mar 2019 9:57

Tgt Ion: 43 Resp: 2033754

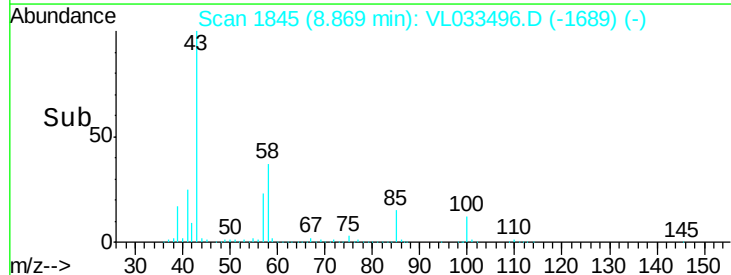
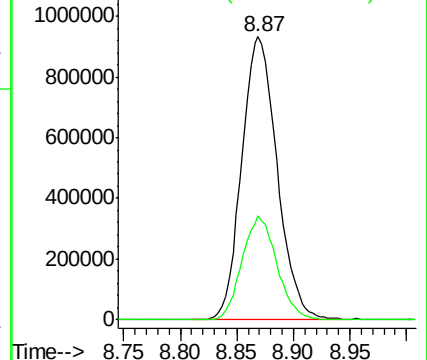
Ion Ratio Lower Upper

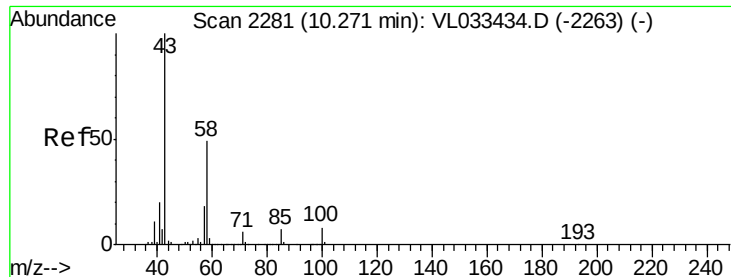
43 100

58 36.1 28.0 42.0



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





#51

2-Hexanone

Concen: 11.068 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1641287

Ion Ratio Lower Upper

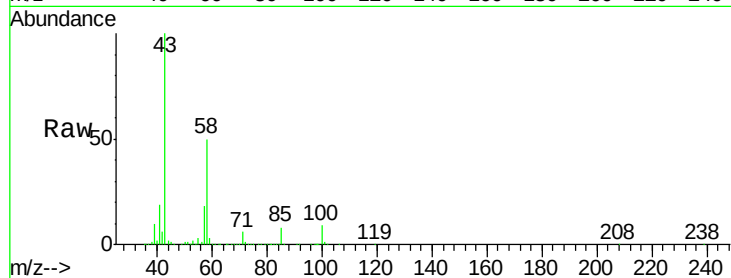
43 100

58 48.6 38.2 57.2

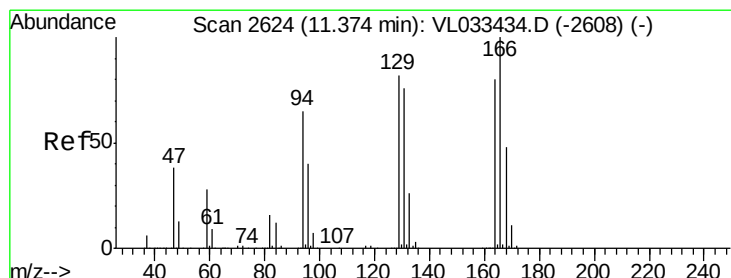
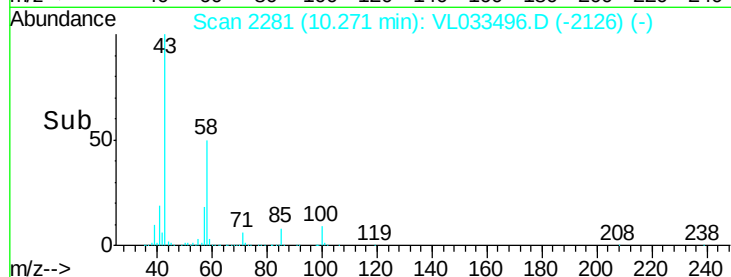
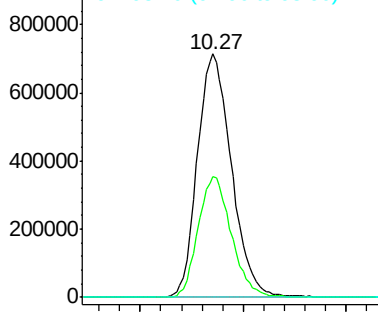
98 0.2 0.2 0.2

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



#52

Tetrachloroethene

Concen: 11.333 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion: 164 Resp: 810694

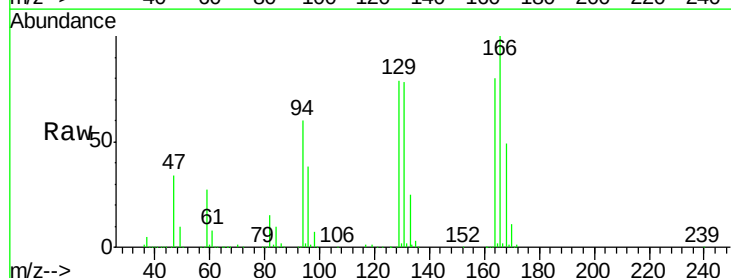
Ion Ratio Lower Upper

164 100

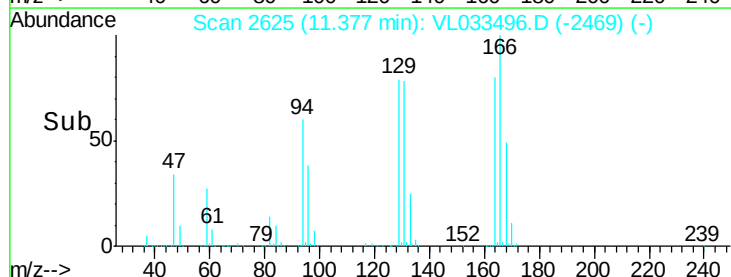
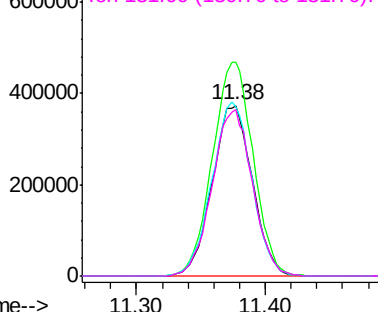
166 125.0 99.5 149.3

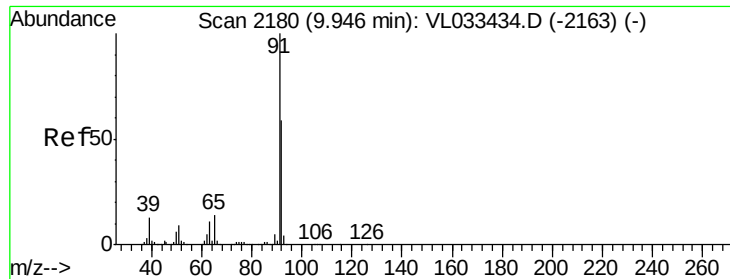
129 98.9 81.4 122.2

131 97.9 75.6 113.4



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





#53

Toluene

Concen: 11.291 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2487683

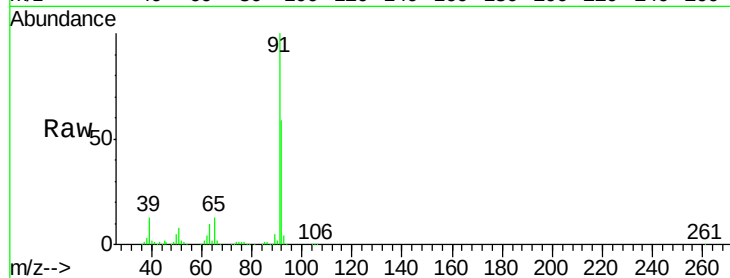
Ion Ratio Lower Upper

91 100

92 59.9 47.4 71.0

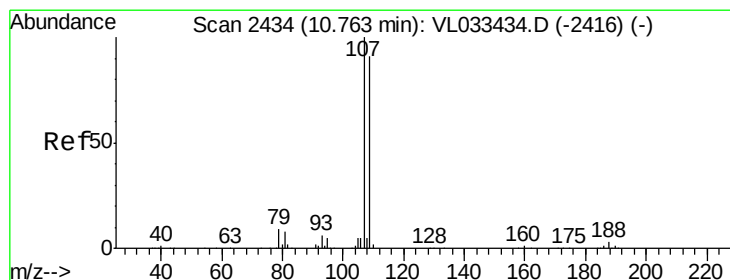
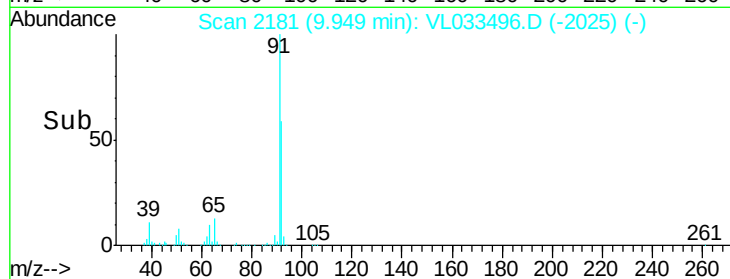
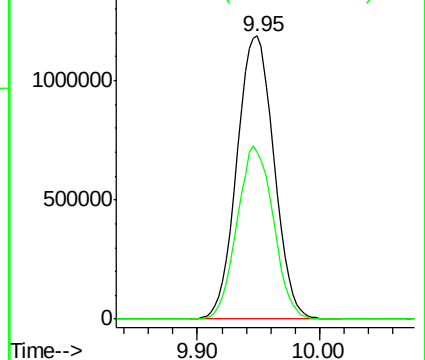
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.554 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.00 min

Lab File: VL033496.D

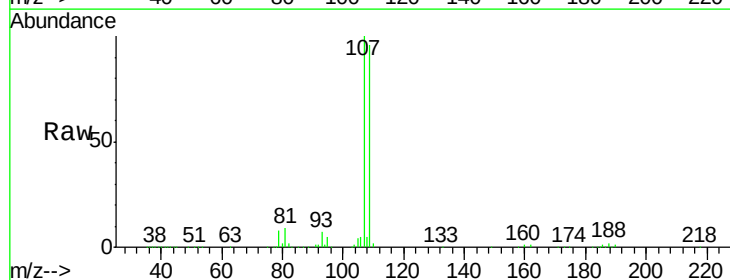
Acq: 29 Mar 2019 9:57

Tgt Ion: 107 Resp: 1392280

Ion Ratio Lower Upper

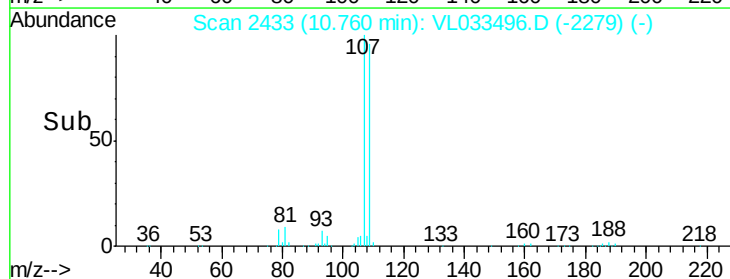
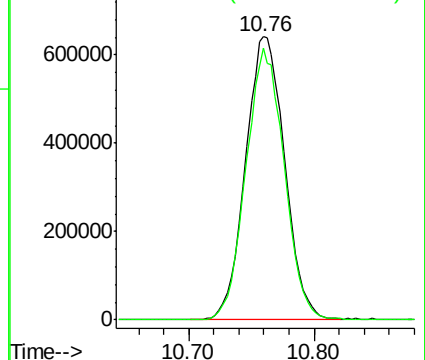
107 100

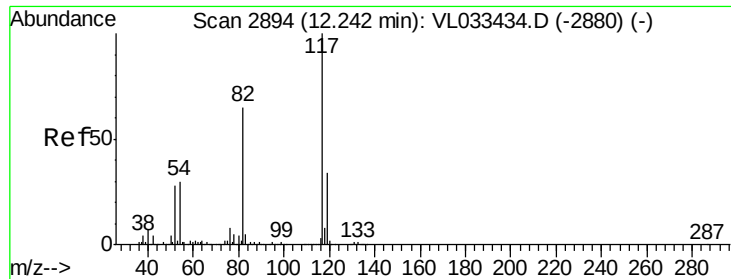
109 95.8 72.7 109.1



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2526223

Ion Ratio Lower Upper

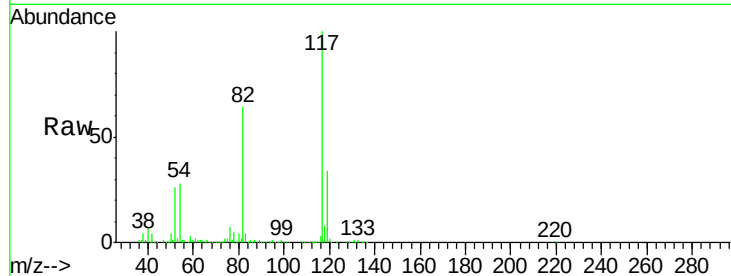
117 100

82 59.8 51.5 77.3

119 29.4 25.5 38.3

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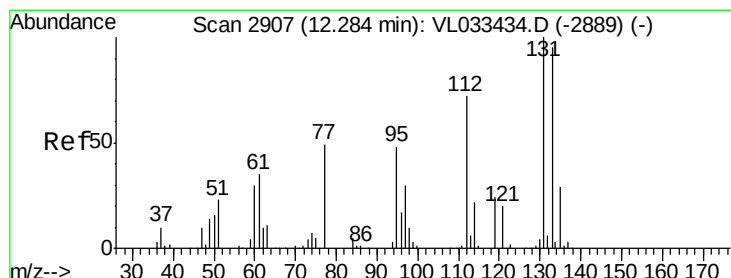
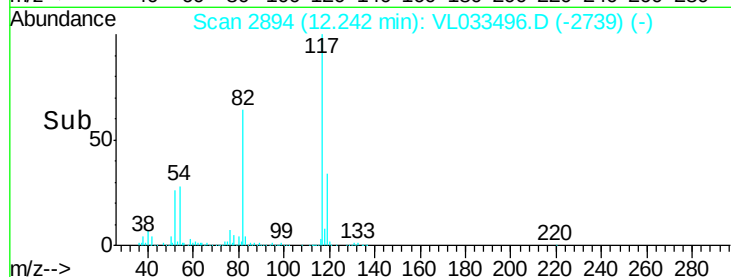
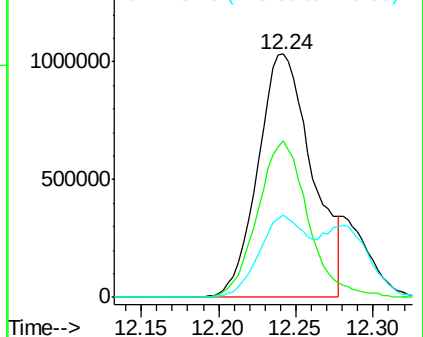
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.323 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

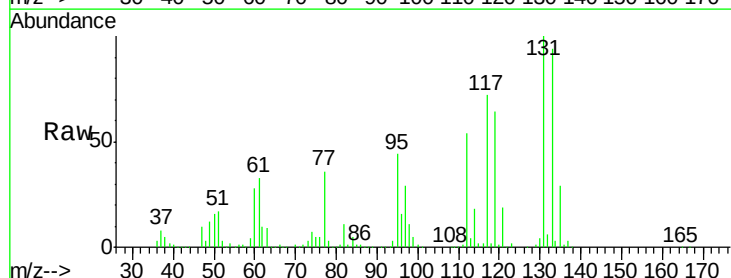
Tgt Ion:131 Resp: 1079385

Ion Ratio Lower Upper

131 100

133 94.6 76.2 114.4

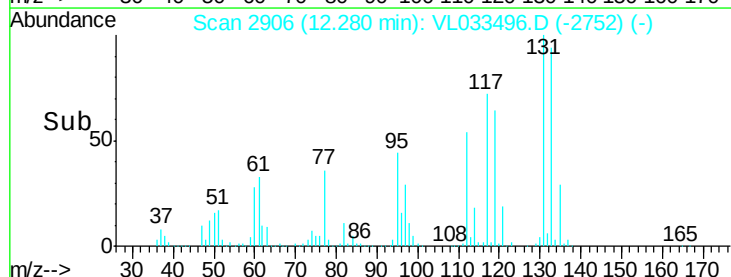
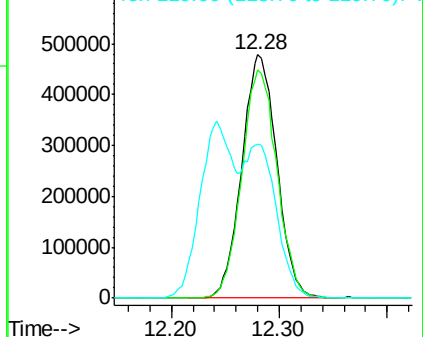
119 65.7 45.0 67.6

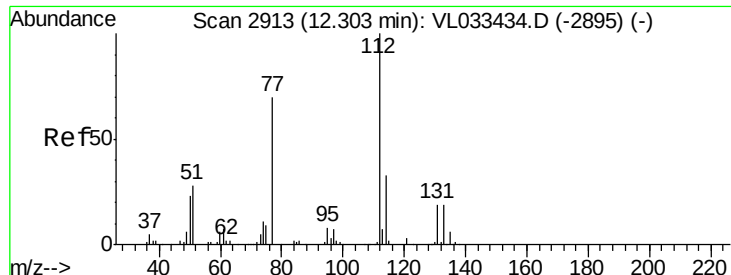


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





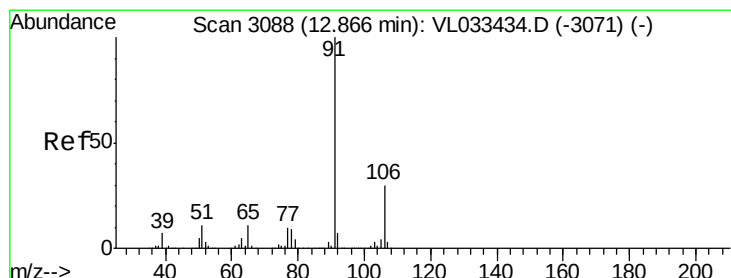
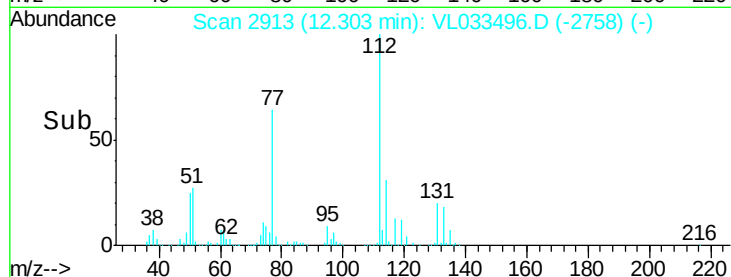
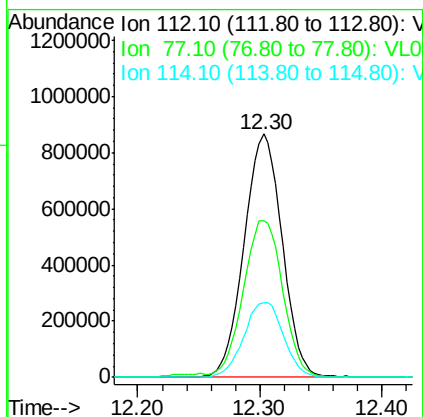
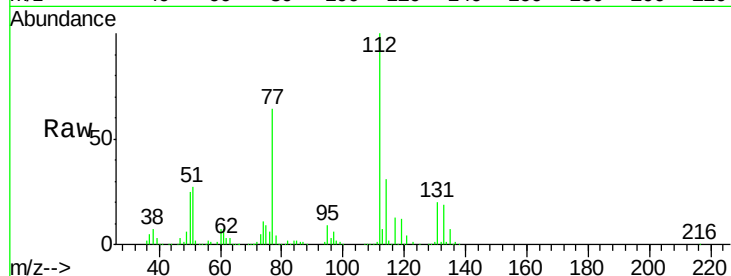
#57
Chlorobenzene
Concen: 9.504 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	64.0	57.3	85.9
114	30.8	29.8	36.4

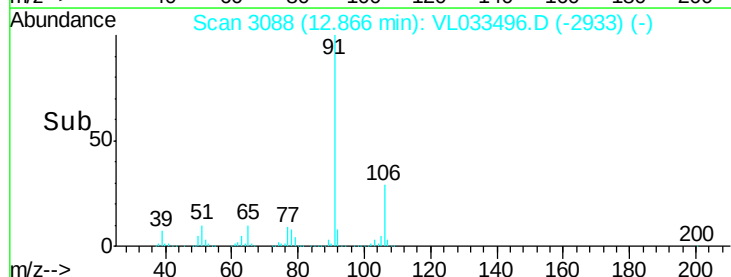
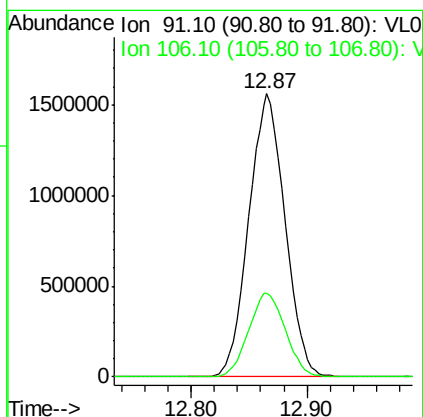
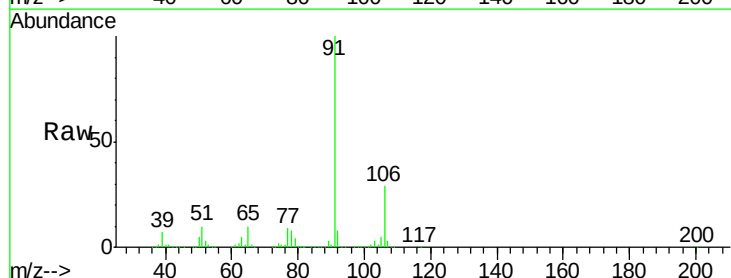
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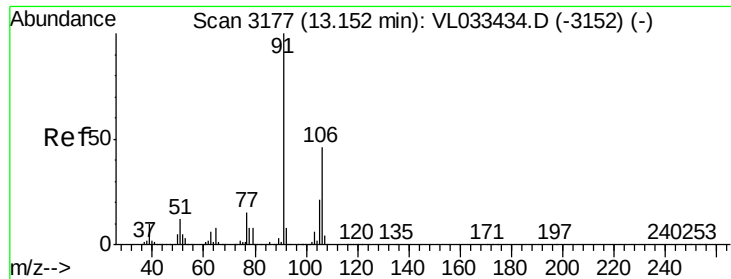
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#58
Ethyl Benzene
Concen: 10.046 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.8	35.6





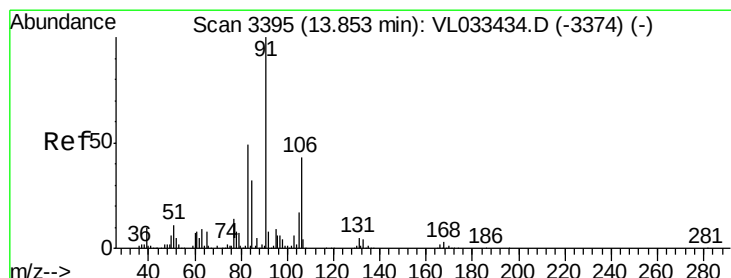
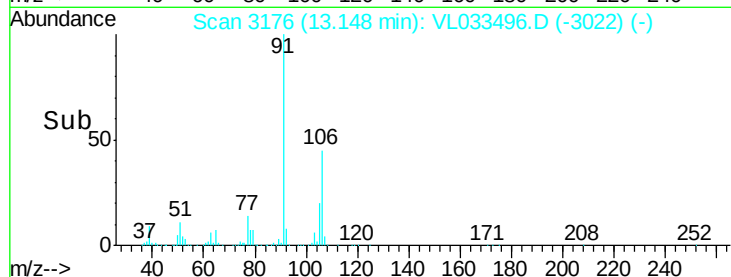
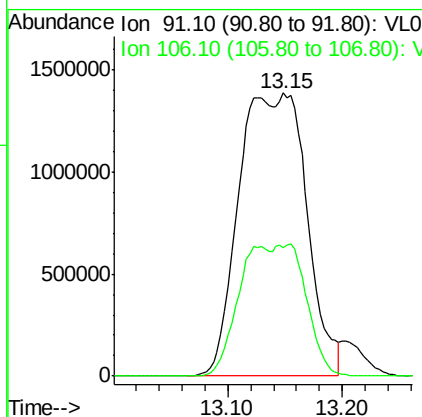
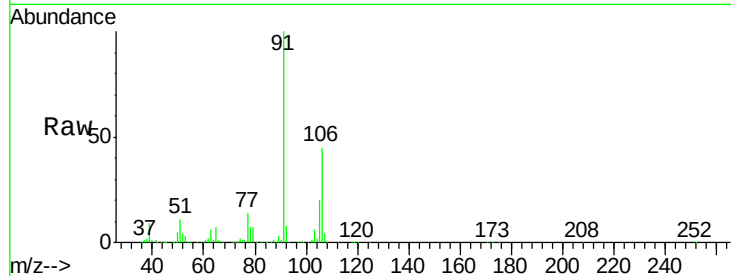
#59
m/p-Xylene
Concen: 18.888 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5691614
Ion Ratio Lower Upper
91 100
106 45.4 0.0 0.0#

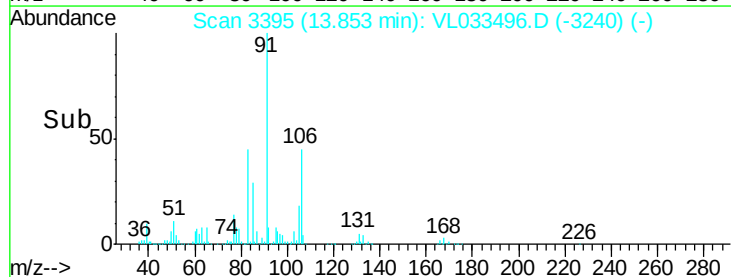
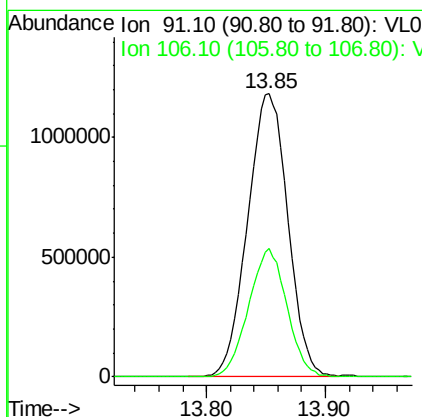
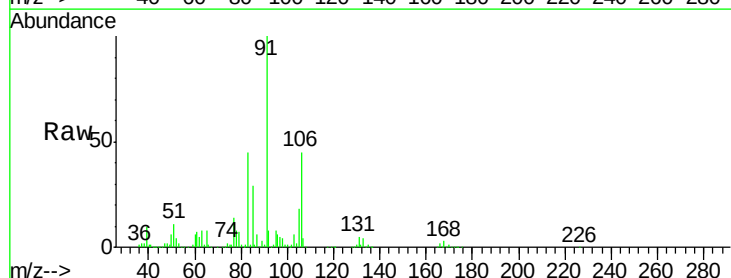
Manual Integrations
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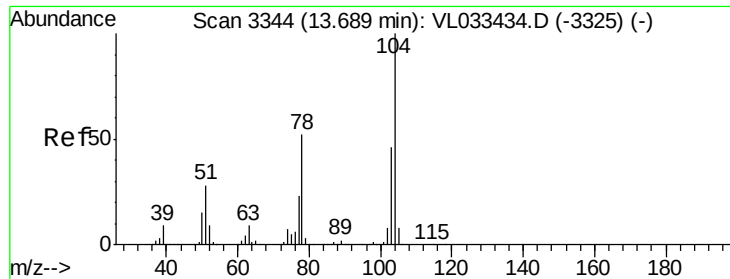
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#60
o-Xylene
Concen: 9.502 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion: 91 Resp: 2768659
Ion Ratio Lower Upper
91 100
106 43.2 21.4 64.3





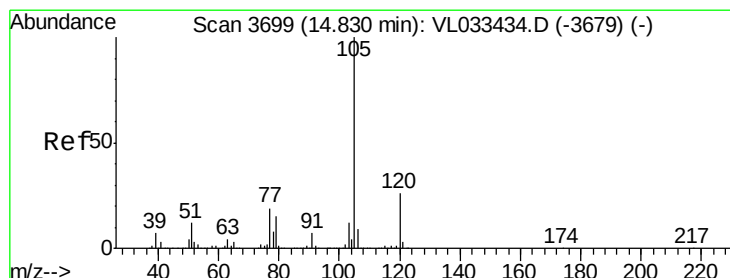
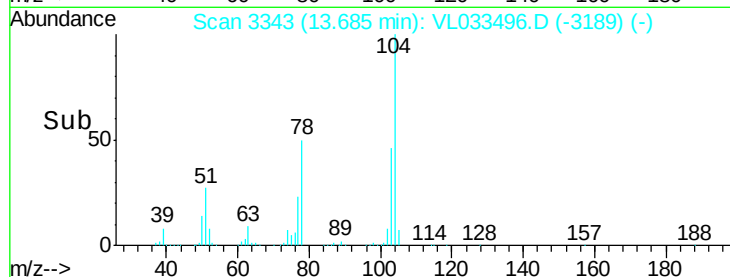
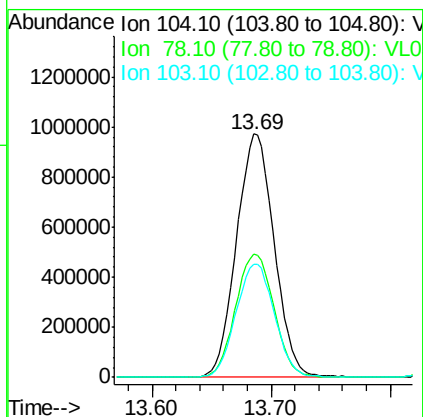
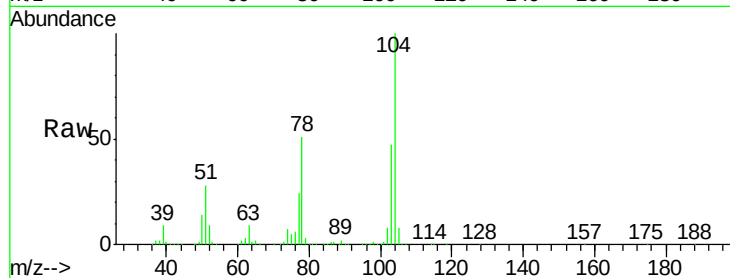
#61
Stvrene
Concen: 10.673 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.8	43.2	64.8
103	47.8	37.8	56.8

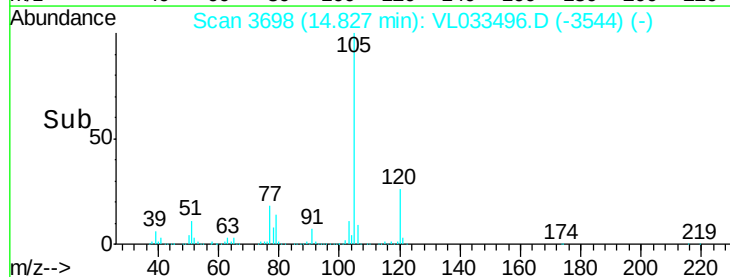
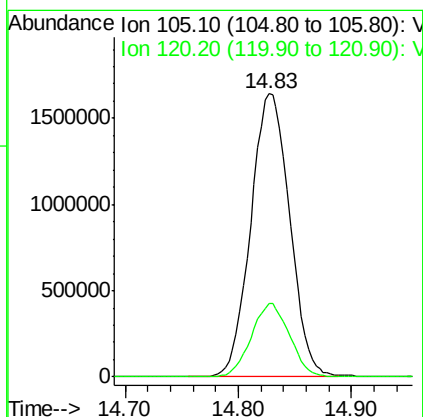
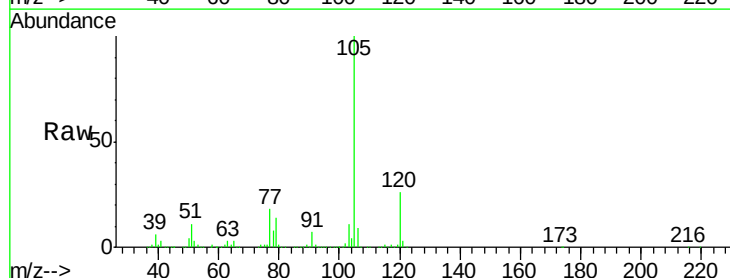
Manual Integrations
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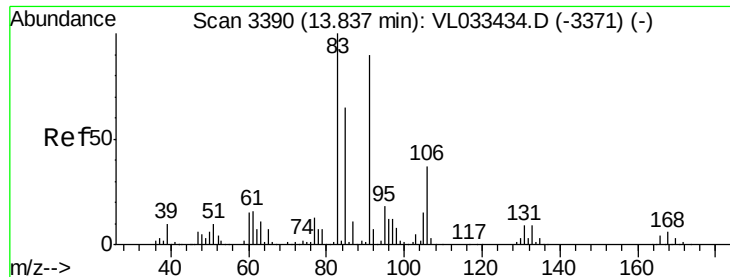
MMDadoda
4/1/2019 4:03:06 AM



#62
Isopropylbenzene
Concen: 9.522 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.00 min
Lab File: VL033496.D
Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.2	30.2





#63

1,1,2,2-Tetrachloroethane

Concen: 8.894 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1908146

Ion Ratio Lower Upper

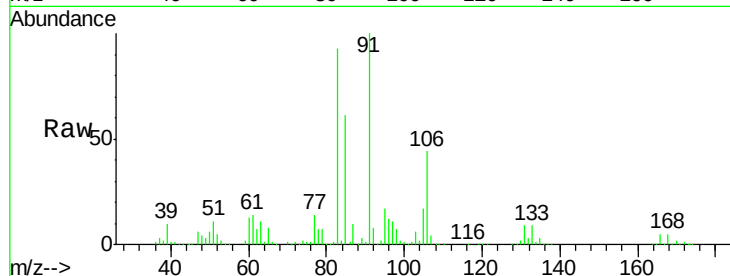
83 100

131 9.7 4.7 14.0

85 64.9 32.7 98.1

Manual Integrations
APPROVED

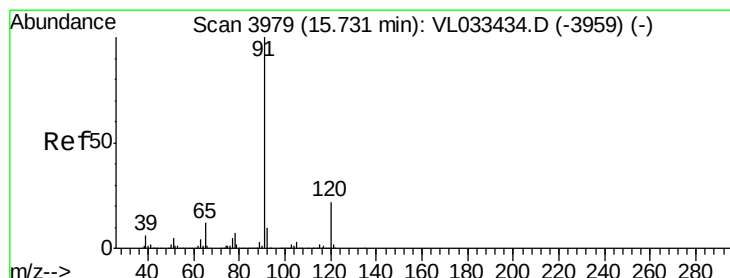
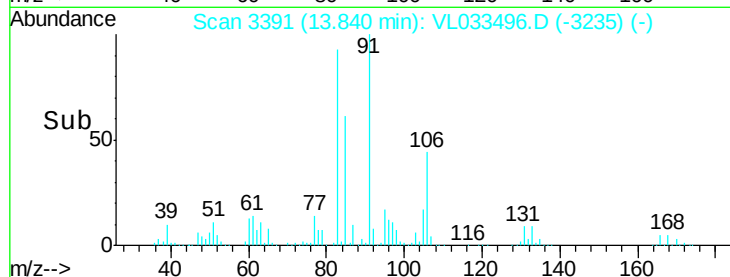
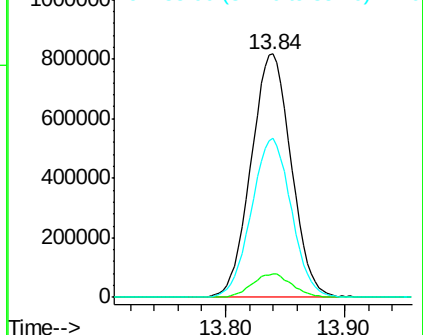
MMDadoda
4/1/2019 4:03:06 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.612 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.01 min

Lab File: VL033496.D

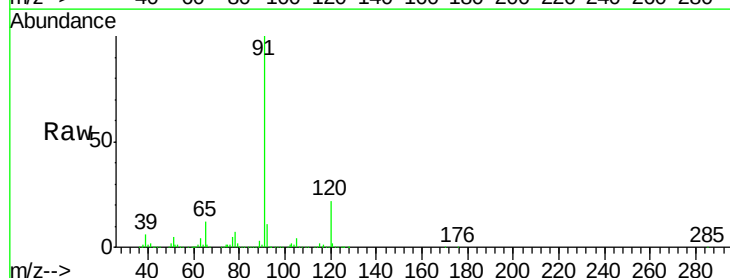
Acq: 29 Mar 2019 9:57

Tgt Ion:120 Resp: 1006421

Ion Ratio Lower Upper

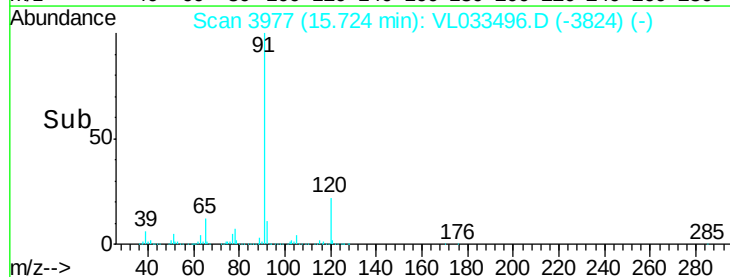
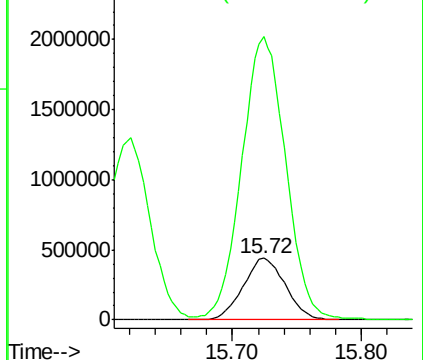
120 100

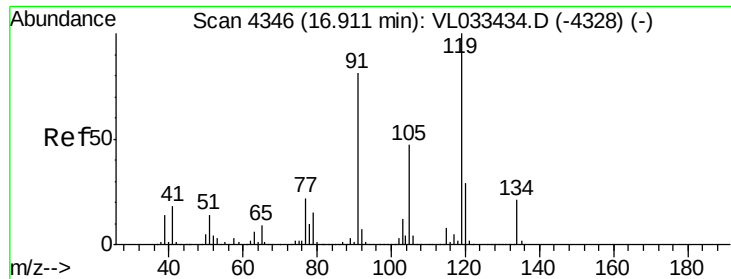
91 478.1 387.4 581.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





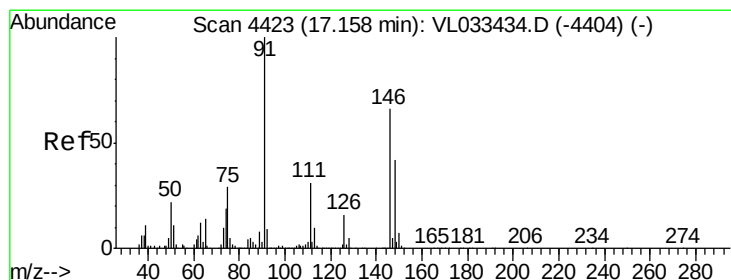
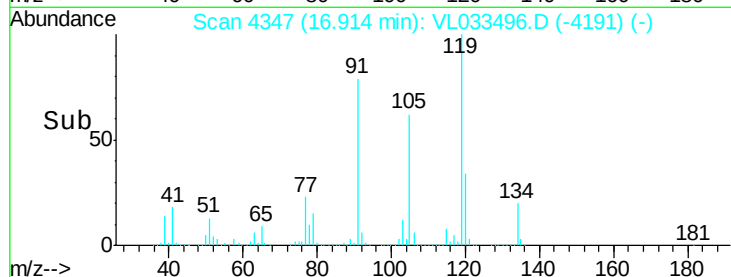
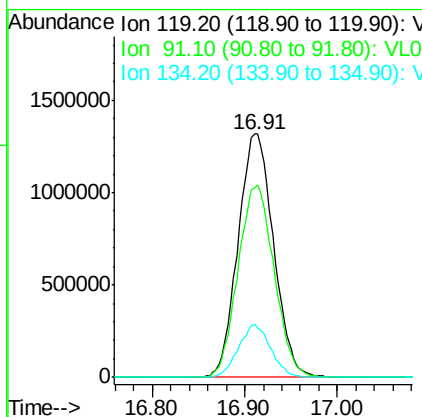
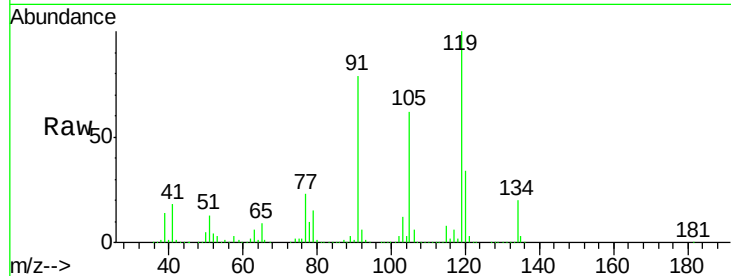
#65
 tert-Butylbenzene
 Concen: 9.624 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 119 Resp: 3499239
 Ion Ratio Lower Upper
 119 100
 91 80.6 66.4 99.6
 134 19.8 15.5 23.3

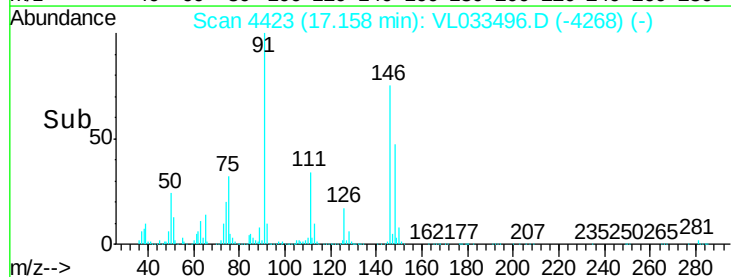
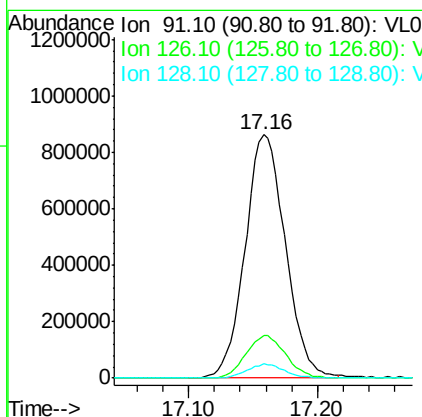
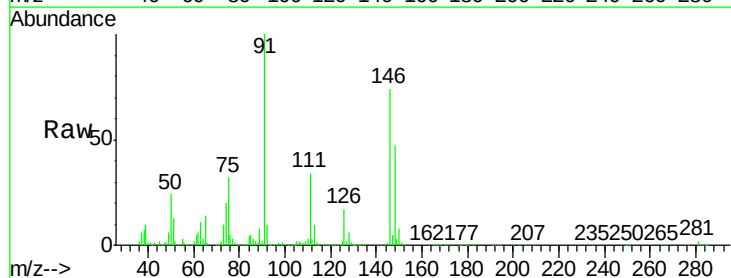
Manual Integrations
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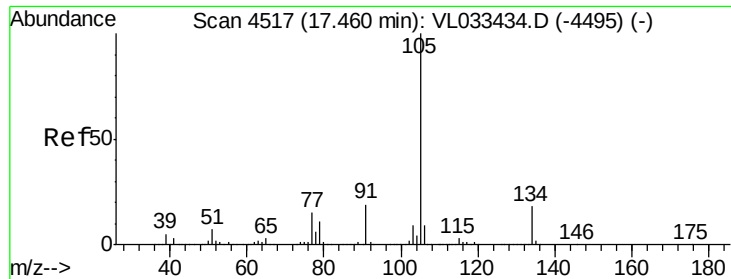
MMDadoda
 4/1/2019 4:03:06 AM



#66
 Benzyl Chloride
 Concen: 11.110 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion: 91 Resp: 1878494
 Ion Ratio Lower Upper
 91 100
 126 17.4 13.0 19.6
 128 5.5 4.2 6.2





#67

sec-Butylbenzene

Concen: 9.563 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4945203

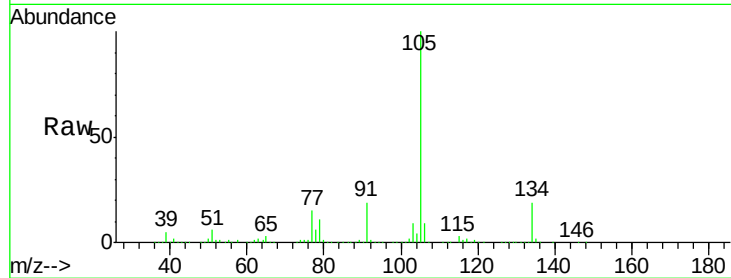
Ion Ratio Lower Upper

105 100

134 18.1 14.6 21.8

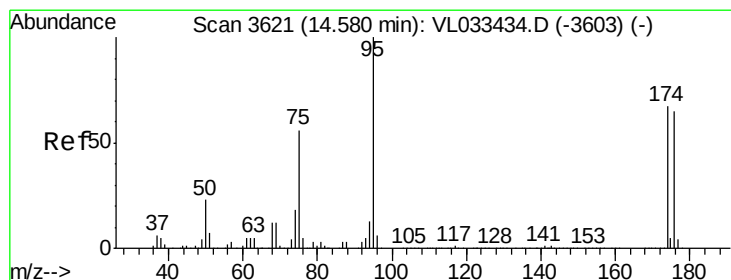
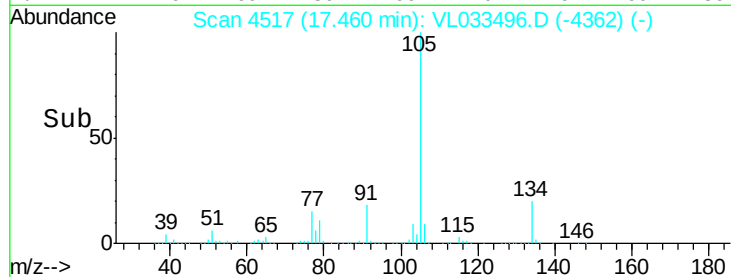
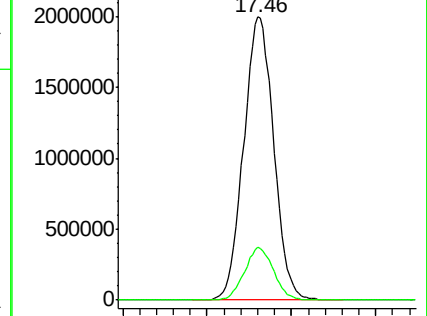
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.928 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

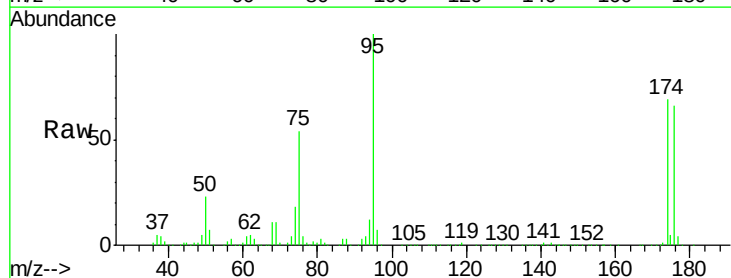
Tgt Ion: 95 Resp: 1768155

Ion Ratio Lower Upper

95 100

174 68.6 52.9 79.3

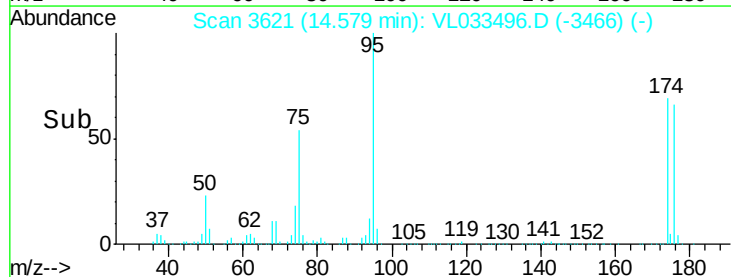
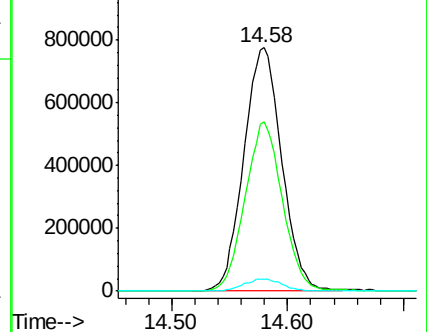
175 4.9 3.8 5.6

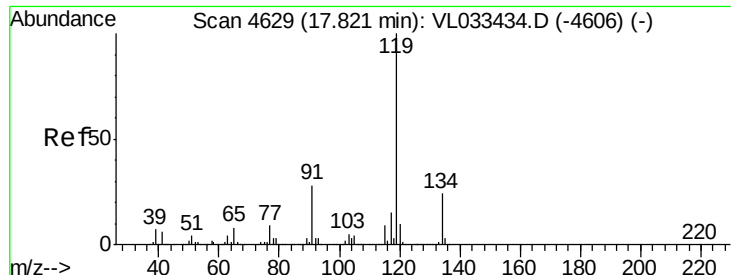


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





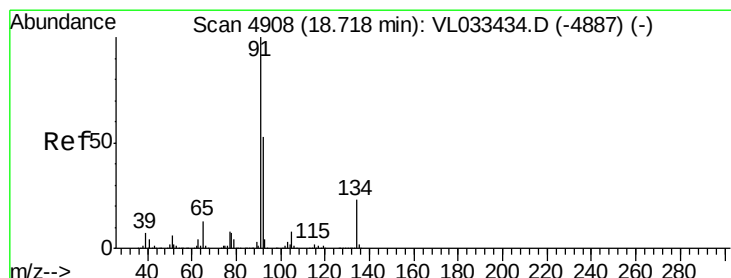
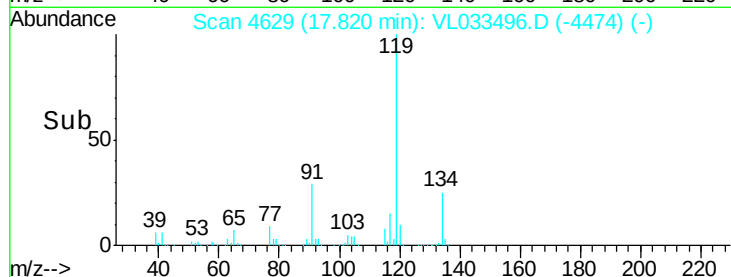
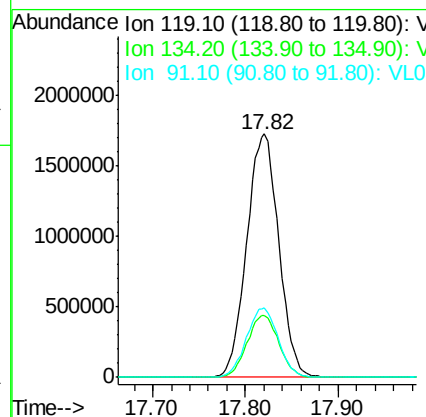
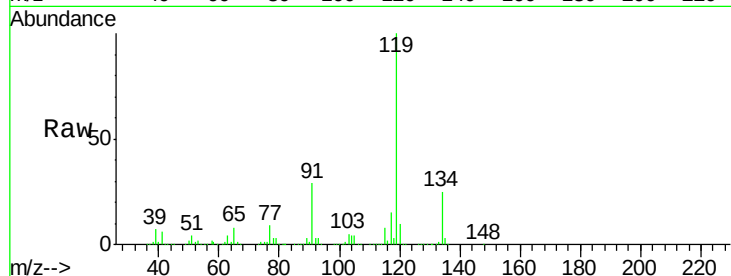
#69
 p-Isopropyltoluene
 Concen: 9.810 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	19.9	29.9
91	28.4	23.4	35.0

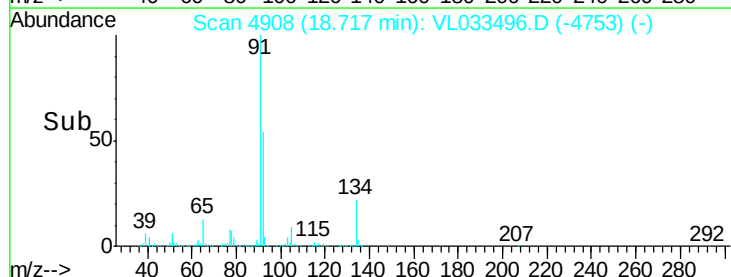
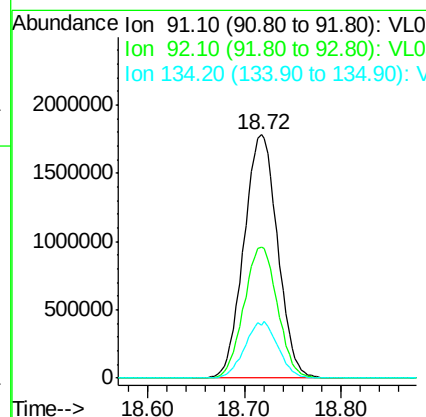
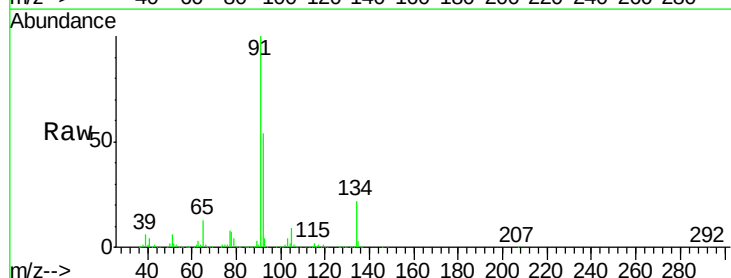
Manual Integrations
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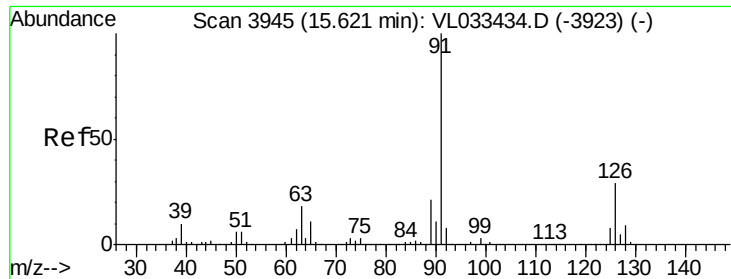
MMDadoda
 4/1/2019 4:03:06 AM



#70
 n-Butylbenzene
 Concen: 9.669 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	42.6	64.0
134	22.7	17.5	26.3





#71

2-Chlorotoluene

Concen: 9.592 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3009647

Ion Ratio Lower Upper

91 100

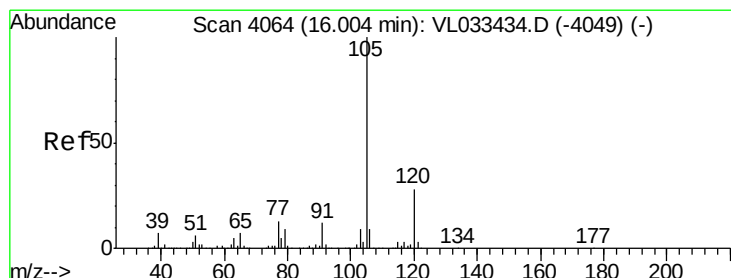
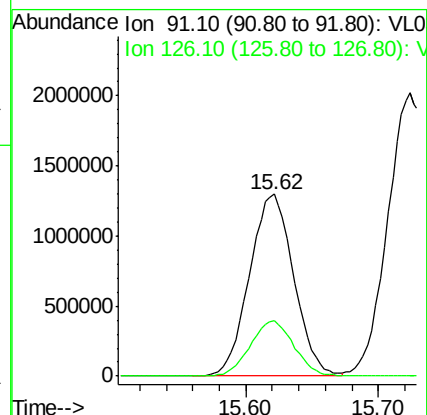
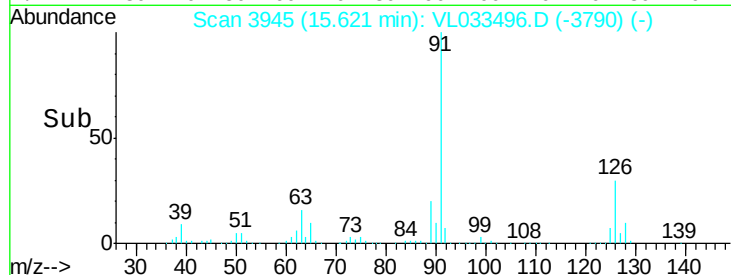
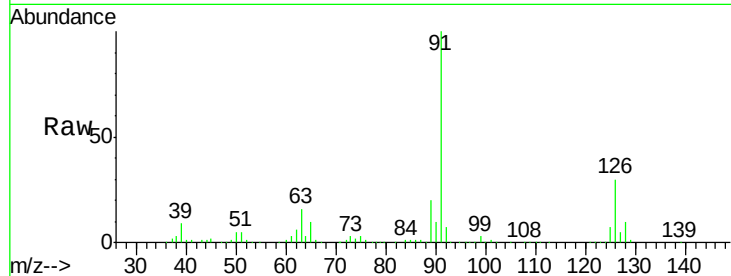
126 30.1 11.7 46.9

Manual Integrations

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4/1/2019 4:03:06 AM



#72

4-Ethyltoluene

Concen: 9.776 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Tgt Ion: 105 Resp: 3202102

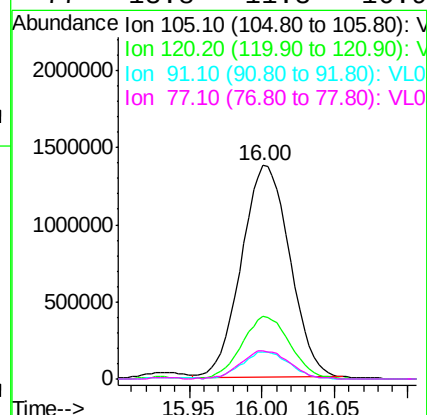
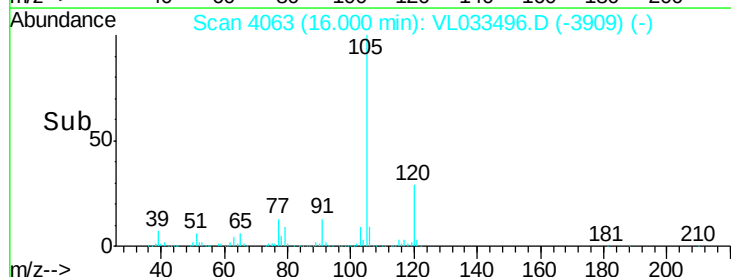
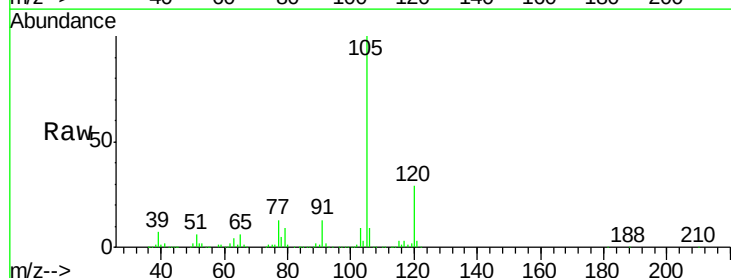
Ion Ratio Lower Upper

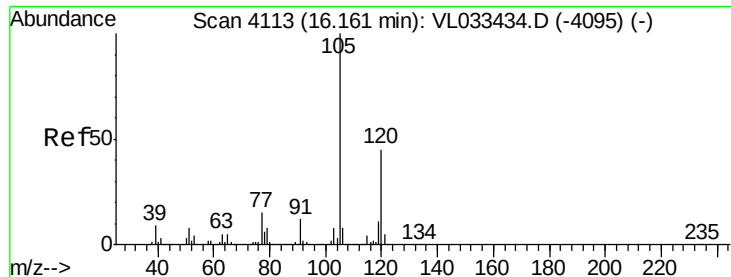
105 100

120 29.5 23.2 34.8

91 12.7 10.4 15.6

77 13.8 11.3 16.9





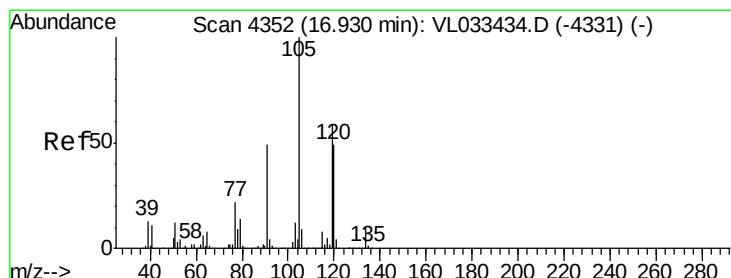
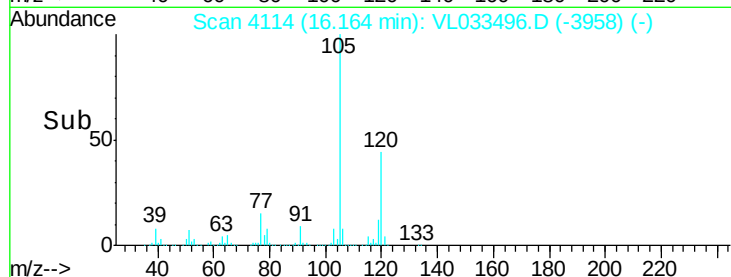
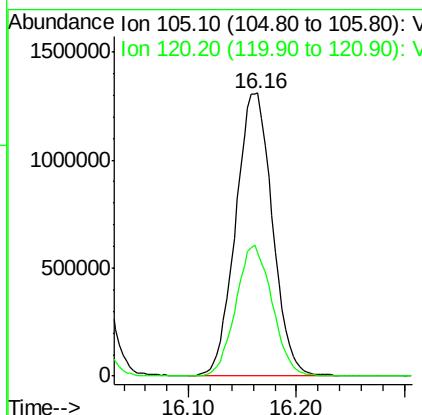
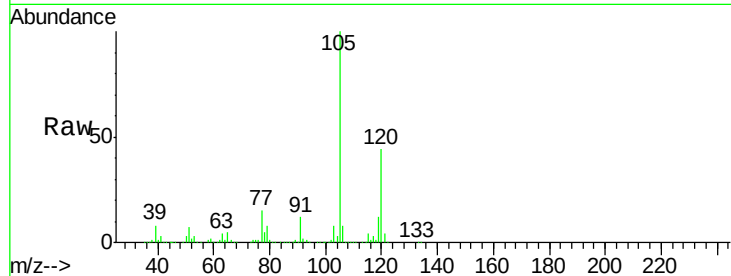
#73
 1,3,5-Trimethylbenzene
 Concen: 9.861 ppbv
 RT: 16.16 min Scan# 4114
 Delta R.T. 0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:105 Resp: 3090856
 Ion Ratio Lower Upper
 105 100
 120 43.7 35.7 53.5

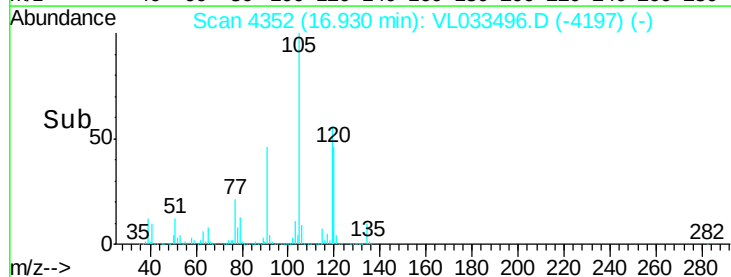
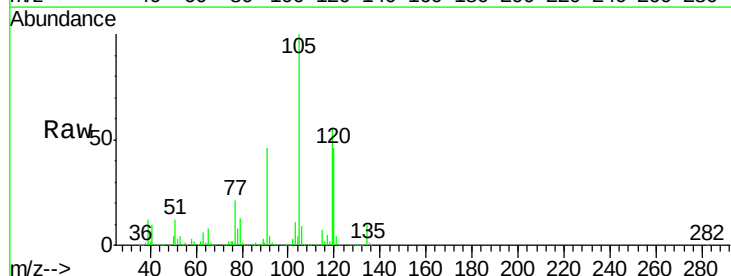
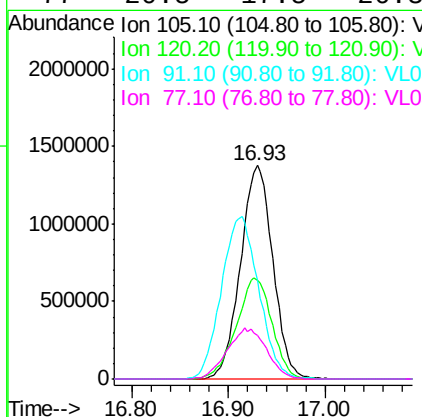
Manual Integrations
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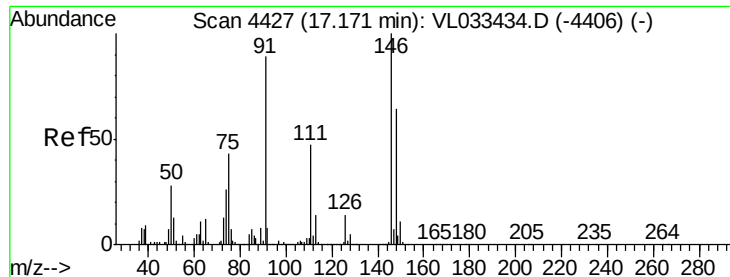
MMDadoda
 4/1/2019 4:03:06 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 9.519 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion:105 Resp: 3197813
 Ion Ratio Lower Upper
 105 100
 120 46.4 39.0 58.6
 91 46.2 40.0 60.0
 77 20.5 17.5 26.3





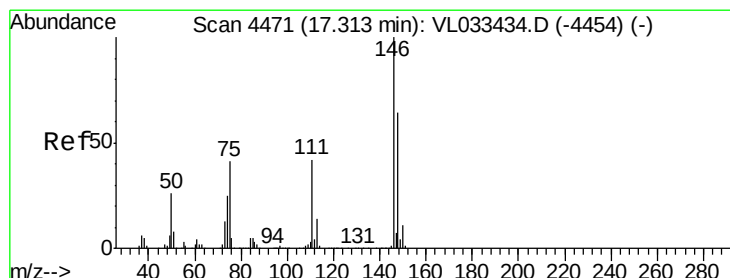
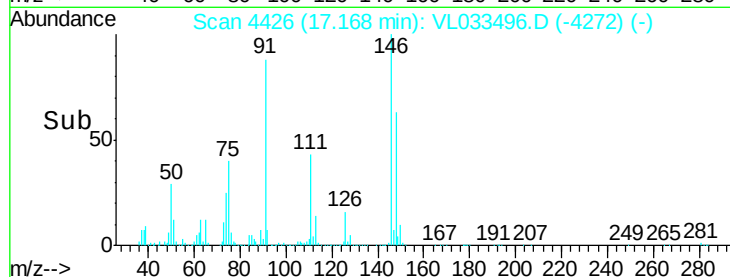
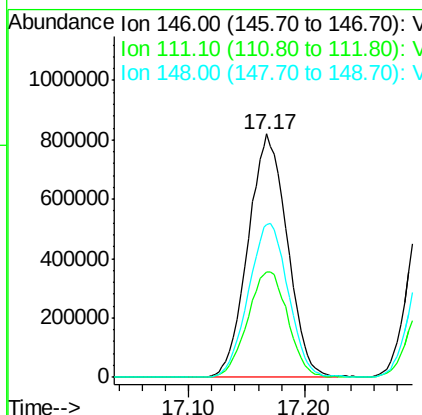
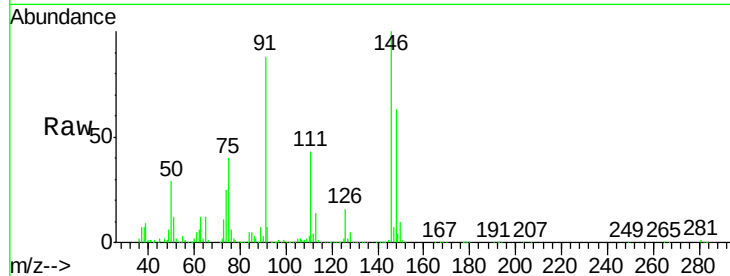
#75
 1,3-Dichlorobenzene
 Concen: 9.273 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1925557
 Ion Ratio Lower Upper
 146 100
 111 44.6 22.9 68.8
 148 64.4 32.0 96.2

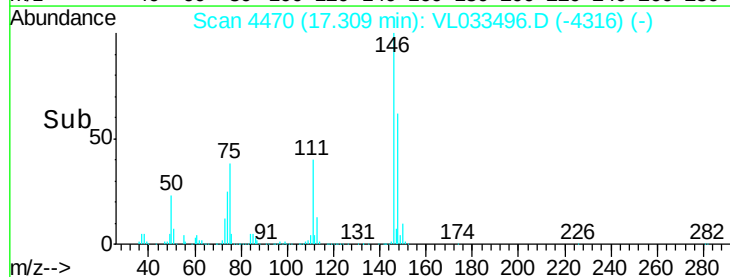
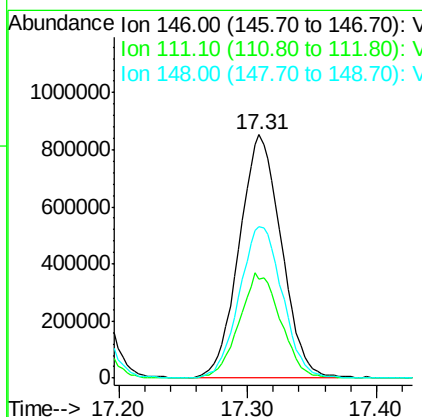
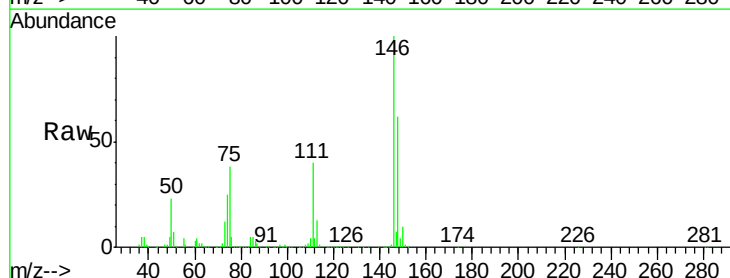
Manual Integrations
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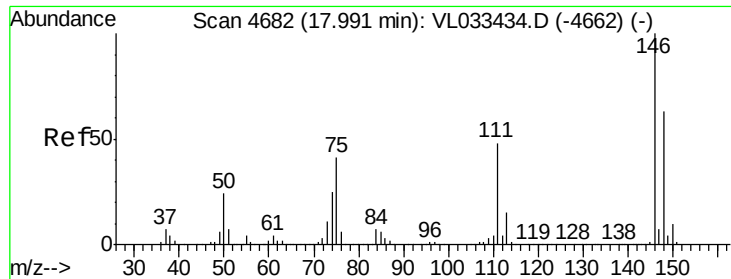
MMDadoda
 4/1/2019 4:03:06 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.523 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion:146 Resp: 1926658
 Ion Ratio Lower Upper
 146 100
 111 43.0 21.7 65.1
 148 64.4 32.0 96.2





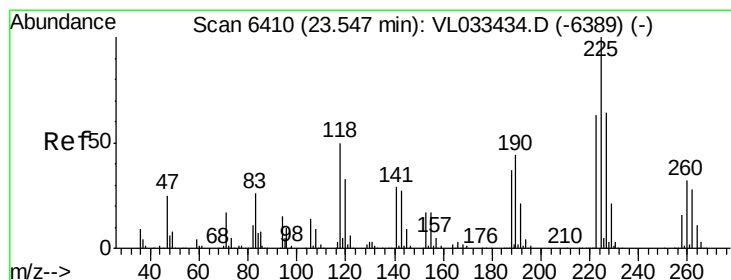
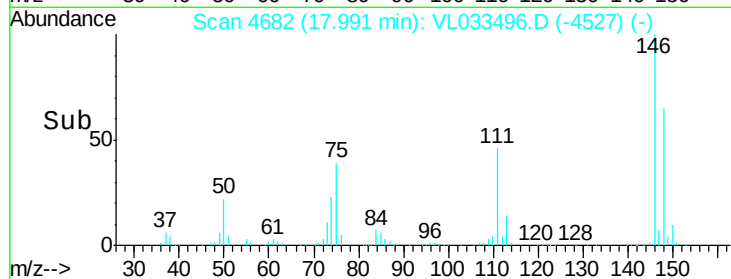
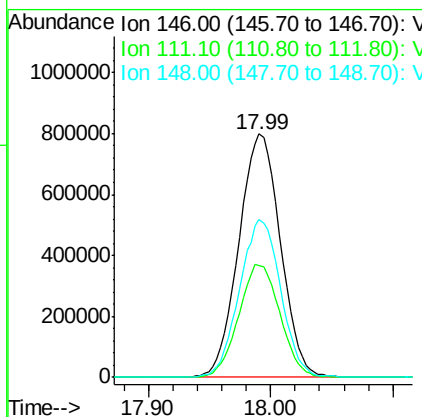
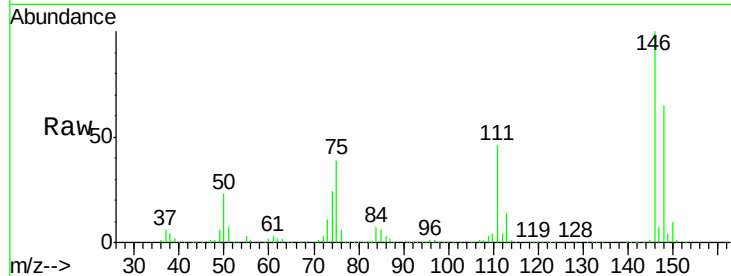
#77
 1,2-Dichlorobenzene
 Concen: 9.550 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1881405
 Ion Ratio Lower Upper
 146 100
 111 46.2 23.5 70.5
 148 64.4 32.0 96.0

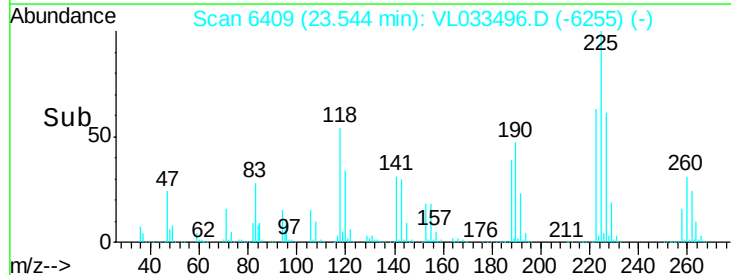
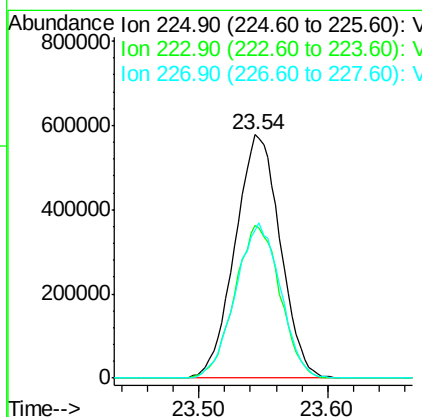
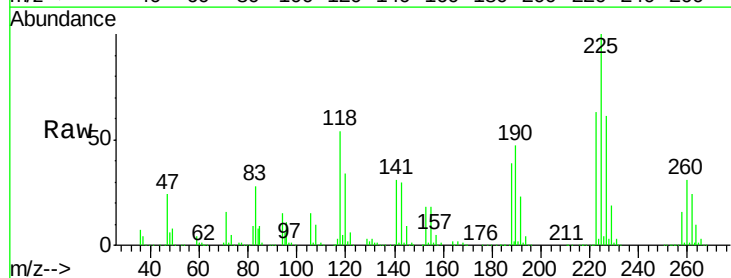
Manual Integrations
 APPROVED

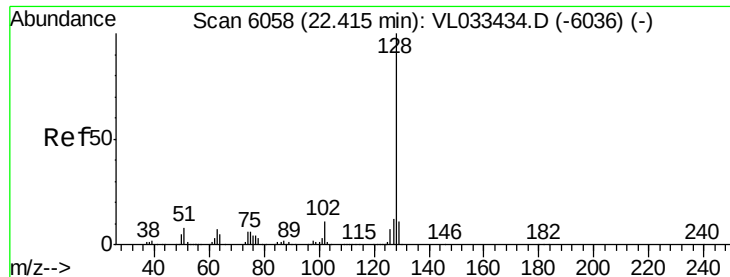
MMDadoda
 4/1/2019 4:03:06 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.797 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Tgt Ion:225 Resp: 1408158
 Ion Ratio Lower Upper
 225 100
 223 62.9 50.0 75.0
 227 63.5 51.1 76.7





#79

Naphthalene

Concen: 11.350 ppbv

RT: 22.42 min Scan# 6059

Delta R.T. 0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 3263985

Ion Ratio Lower Upper

128 100

127 12.6 9.8 14.8

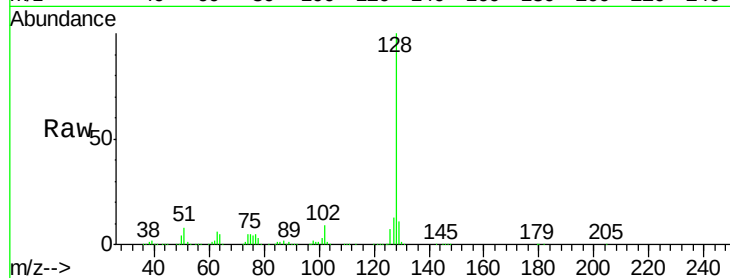
129 10.5 8.6 12.8

Manual Integrations

APPROVED

MMDadoda

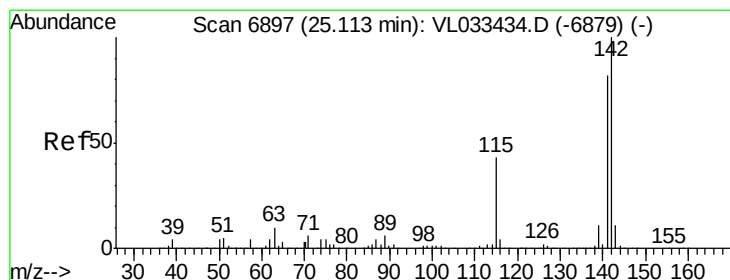
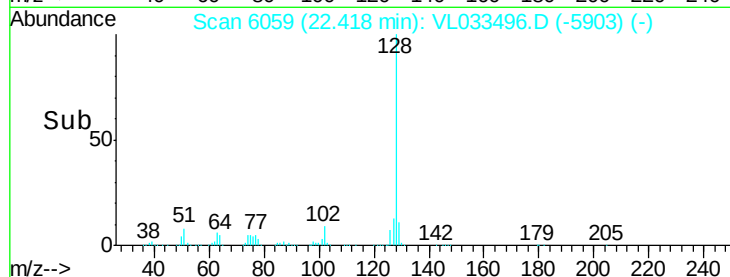
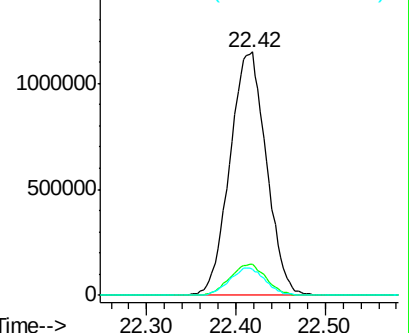
4/1/2019 4:03:06 AM



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: 15.880 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.00 min

Lab File: VL033496.D

Acq: 29 Mar 2019 9:57

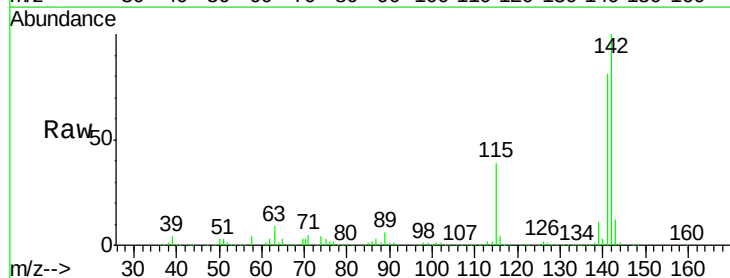
Tgt Ion:142 Resp: 1532626

Ion Ratio Lower Upper

142 100

141 84.4 66.6 99.8

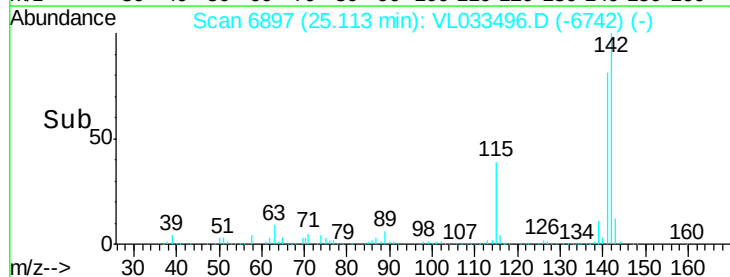
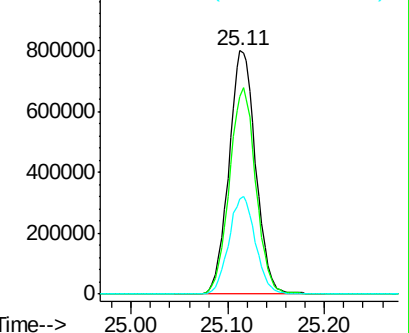
115 39.9 34.4 51.6

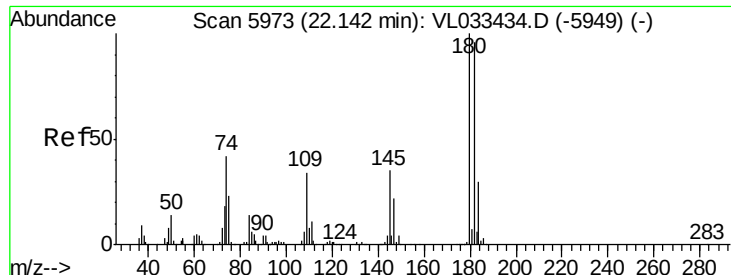


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 10.468 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033496.D
 Acq: 29 Mar 2019 9:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	180	Resp:	1669836
Ion Ratio	Lower	Upper	
180	100		
182	96.0	77.0	115.4
184	31.1	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 4:03:06 AM

