

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121719\
 Data File : VL034507.D
 Acq On : 18 Dec 2019 9:05
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
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 12/19/2019 3:48:16 PM

Quant Time: Dec 19 01:32:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1002562	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.20	114	1998707	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2253551	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1769668	9.33	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	1213339	6.690	ppbv	98
3) Chlorodifluoromethane	2.95	51	1133870	9.064	ppbv	98
4) Chloromethane	3.11	50	696906	9.445	ppbv	99
5) Vinyl Chloride	3.22	62	640424	9.264	ppbv	91
6) Bromomethane	3.45	94	351468	10.105	ppbv	94
7) Chloroethane	3.53	64	246248	9.814	ppbv	97
8) Dichlorotetrafluoroethane	3.16	85	1503058	9.228	ppbv	100
9) Propene	2.97	41	476670	8.583	ppbv	99
10) Heptane	8.14	43	1283267	8.954	ppbv	98
11) Trichlorofluoromethane	3.93	101	1760874	9.755	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1168225	9.746	ppbv	99
13) Ethanol	3.58	45	129126	8.347	ppbv	96
14) Bromoethene	3.72	108	481961	9.888	ppbv	100
15) Acetone	3.83	43	1495660	10.418	ppbv	97
16) 1,3-Butadiene	3.29	39	587169	9.389	ppbv	98
17) tert-Butyl alcohol	4.28	59	1242031	10.292	ppbv	99
18) 1,1-Dichloroethene	4.27	96	521273	9.941	ppbv	99
19) Isopropyl Alcohol	3.95	45	997636	10.841	ppbv	99
20) Methylene Chloride	4.33	84	452628	8.891	ppbv	92
21) Allyl Chloride	4.39	41	893135	10.382	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	534768	10.117	ppbv	91
23) Vinyl Acetate	5.07	43	1926749	10.274	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1317084	9.143	ppbv	99
25) Ethyl Acetate	5.68	43	2315219	9.037	ppbv	100
26) Hexane	5.69	57	985536	8.953	ppbv	99
27) Carbon Disulfide	4.54	76	1357336	11.321	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1712414	9.381	ppbv	100
29) Chloroform	5.75	83	1629712	9.142	ppbv	98
30) Cyclohexane	7.15	84	778847	9.359	ppbv	100
31) cis-1,2-Dichloroethene	5.55	61	1057757	9.299	ppbv	98
32) 1,1,1-Trichloroethane	6.52	97	1698989	10.165	ppbv	98
34) 2-Butanone	5.24	43	1528746	9.292	ppbv	99
35) Carbon Tetrachloride	7.03	117	1819788	10.590	ppbv	96
36) Benzene	6.91	78	1868573	9.352	ppbv	96
37) 1,2-Dichloroethane	6.32	62	1424524	9.597	ppbv	100
38) Trichloroethene	7.86	130	768683	9.375	ppbv	95
39) 1,2-Dichloropropane	7.63	63	758990	9.860	ppbv	96
40) 1,4-Dioxane	7.85	88	327180m	9.730	ppbv	
41) Tetrahydrofuran	6.05	42	835140	9.050	ppbv	100
42) Bromodichloromethane	7.82	83	1822833	9.819	ppbv	98
43) Methyl Methacrylate	8.03	69	796683	9.614	ppbv	99

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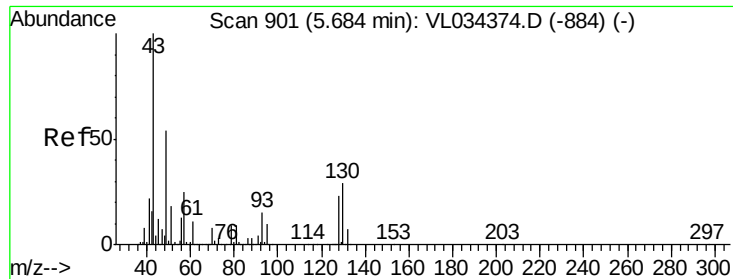
Manual Integrations
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Quant Time: Dec 19 01:32:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3354020	9.186	ppbv	100
45) t-1,3-Dichloropropene	9.31	75	1120939	10.547	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	1227474	10.283	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	789550	9.221	ppbv	97
48) Dibromochloromethane	10.34	129	1503736	10.228	ppbv	100
49) Bromoform	13.09	173	1320998	10.066	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2256054	9.478	ppbv	100
51) 2-Hexanone	10.17	43	1869316	9.375	ppbv #	98
52) Tetrachloroethene	11.26	164	710277	8.216	ppbv	98
53) Toluene	9.84	91	2139287	9.426	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1218234	9.280	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.17	131	1008833	9.152	ppbv	98
57) Chlorobenzene	12.19	112	1687458	8.284	ppbv	99
58) Ethyl Benzene	12.75	91	2955594	8.451	ppbv	100
59) m/p-Xylene	13.04	91	4932116m	16.315	ppbv	
60) o-Xylene	13.74	91	2492377	8.339	ppbv	100
61) Styrene	13.57	104	1786934	8.290	ppbv	98
62) Isopropylbenzene	14.72	105	3194663	8.082	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	1710944	7.615	ppbv	100
64) n-propylbenzene	15.61	120	836445	8.148	ppbv	97
65) tert-Butylbenzene	16.80	119	2858582	8.050	ppbv	99
66) Benzyl Chloride	17.05	91	1414691	10.356	ppbv	100
67) sec-Butylbenzene	17.35	105	3948082	7.949	ppbv	100
69) p-Isopropyltoluene	17.71	119	3343407	8.111	ppbv	100
70) n-Butylbenzene	18.61	91	3537415	7.975	ppbv	100
71) 2-Chlorotoluene	15.51	91	2499069	7.929	ppbv	99
72) 4-Ethyltoluene	15.89	105	2786775	8.069	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2706295	8.006	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	2816899	7.844	ppbv #	90
75) 1,3-Dichlorobenzene	17.06	146	1581910	7.664	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	1588382	7.925	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1557196	7.811	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1622045	9.470	ppbv	99
79) Naphthalene	22.28	128	3028224	9.728	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	1557047	11.077	ppbv	98
81) 1,2,4-Trichlorobenzene	22.01	180	1775233	9.283	ppbv	100

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



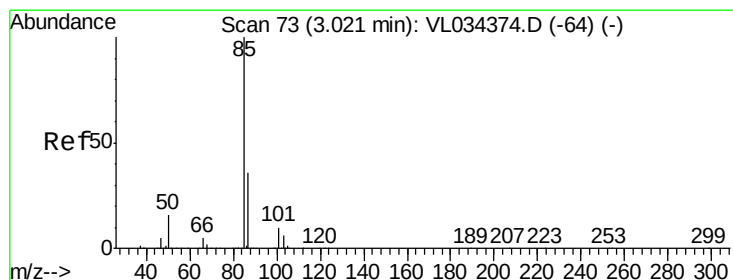
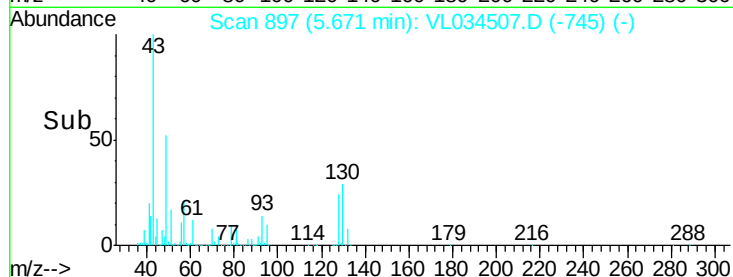
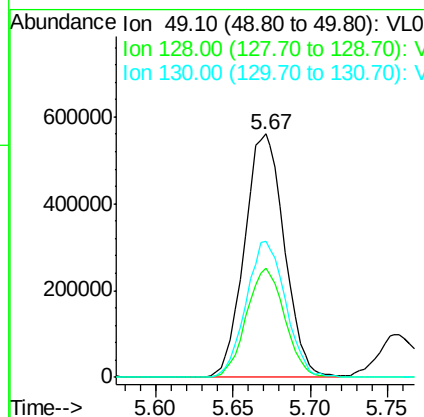
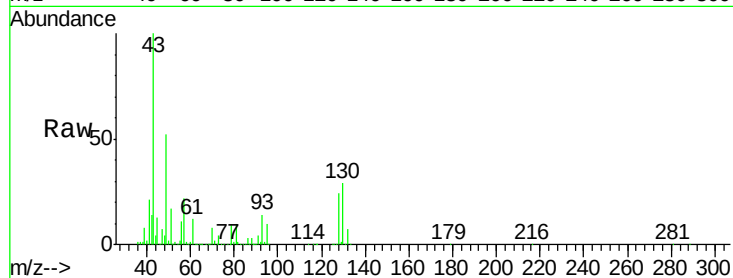
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 49 Resp: 1002562
Ion Ratio Lower Upper
49 100
128 43.3 21.8 65.3
130 55.6 28.0 84.0

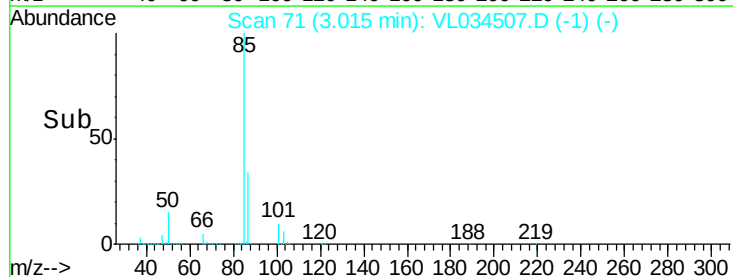
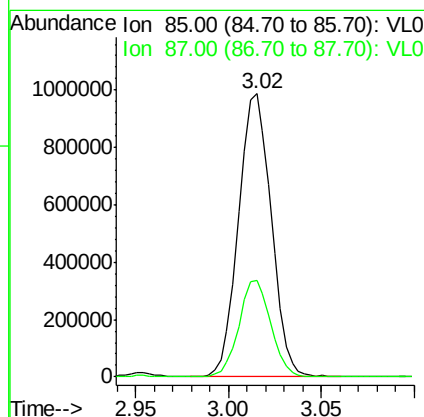
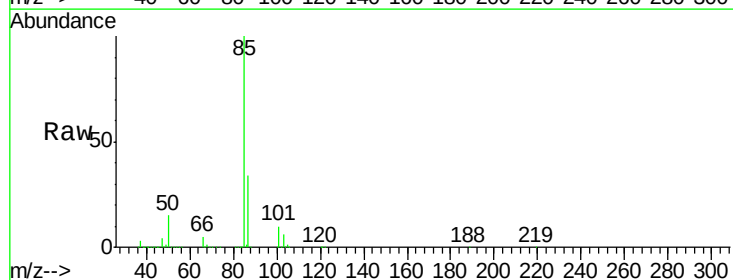
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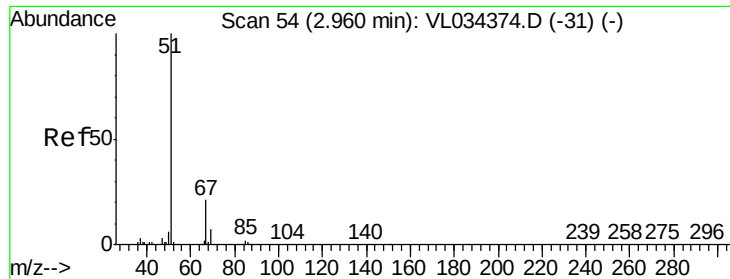
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#2
Dichlorodifluoromethane
Concen: 6.690 ppbv
RT: 3.02 min Scan# 71
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 85 Resp: 1213339
Ion Ratio Lower Upper
85 100
87 34.3 28.5 42.7





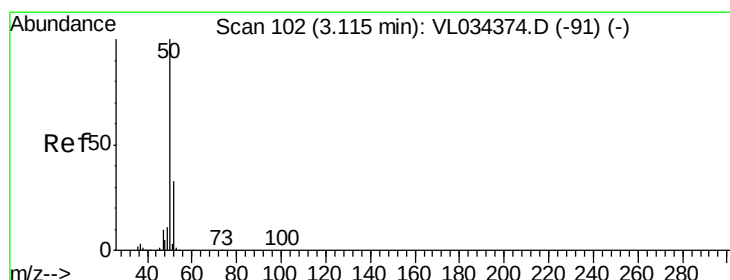
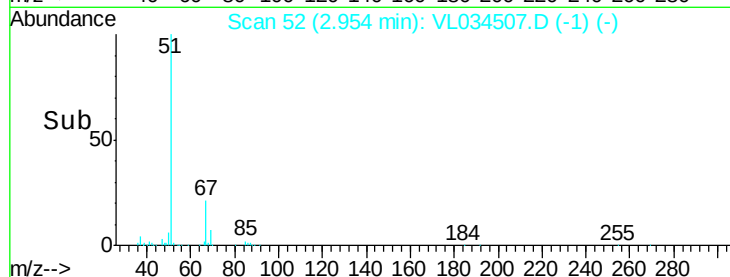
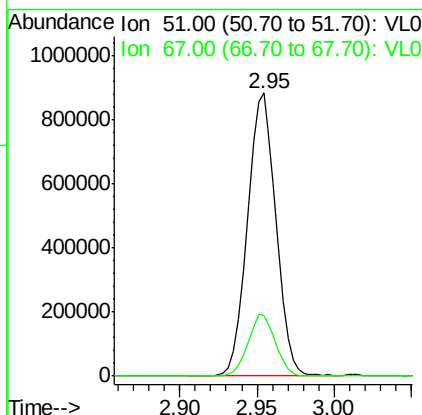
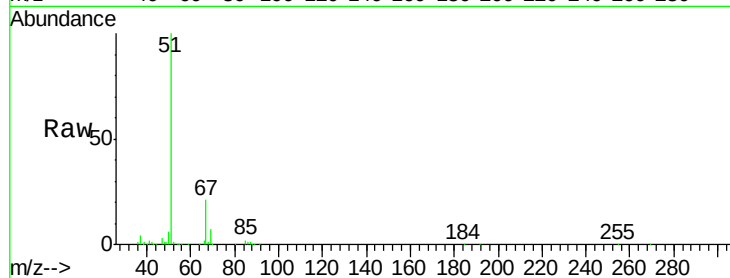
#3
Chlorodifluoromethane
Concen: 9.064 ppbv
RT: 2.95 min Scan# 52
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 51 Resp: 1133870
Ion Ratio Lower Upper
51 100
67 21.1 16.2 24.2

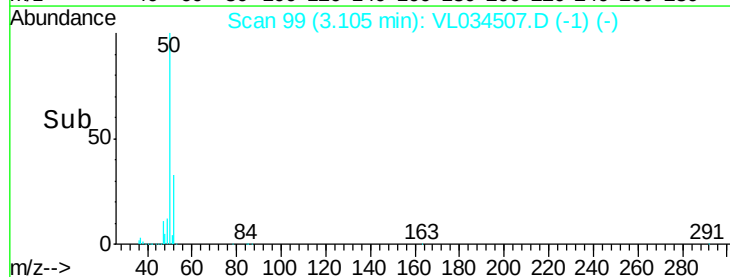
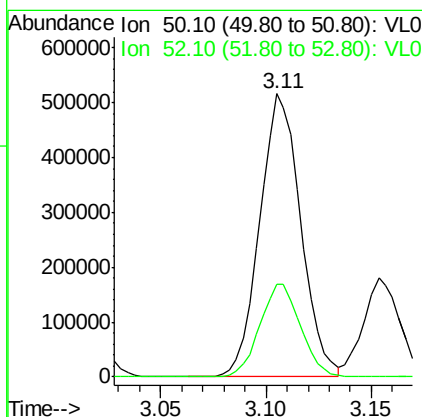
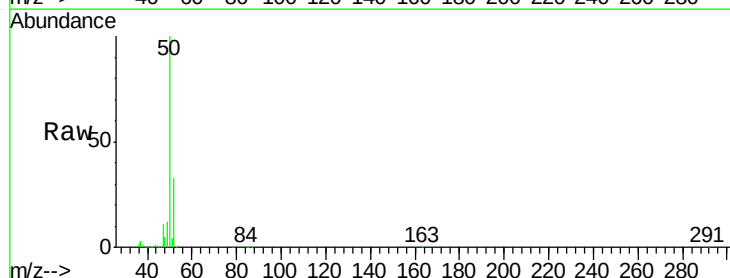
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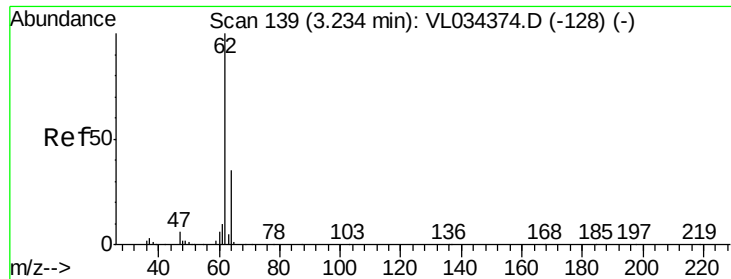
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#4
Chloromethane
Concen: 9.445 ppbv
RT: 3.11 min Scan# 99
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 50 Resp: 696906
Ion Ratio Lower Upper
50 100
52 32.9 26.8 40.2





#5

Vinyl Chloride

Concen: 9.264 ppbv

RT: 3.22 min Scan# 136

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 640424

Ion Ratio Lower Upper

62 100

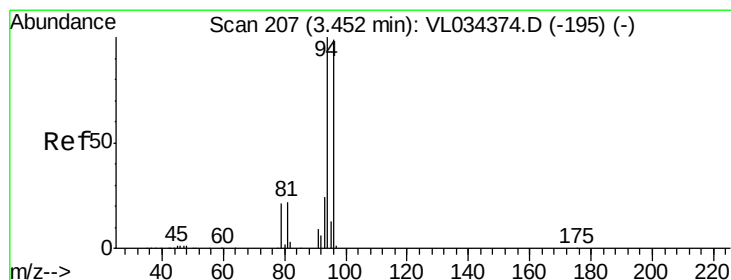
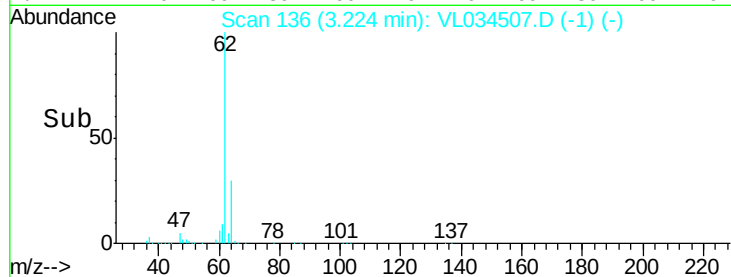
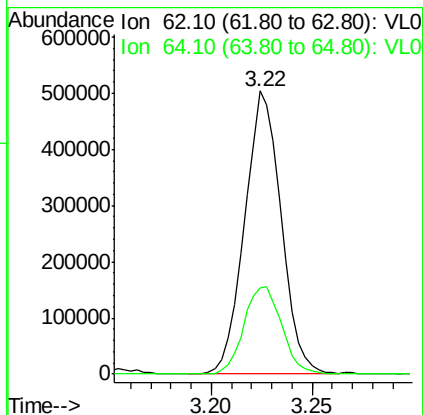
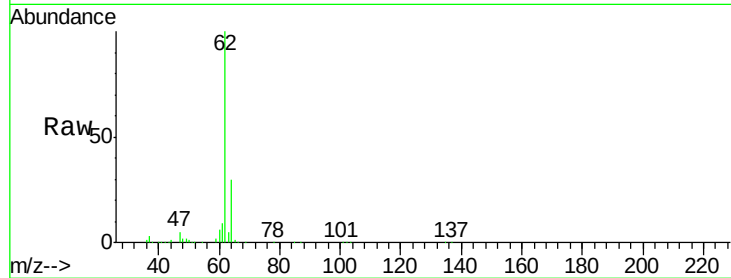
64 30.4 28.4 42.6

Manual Integrations

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#6

Bromomethane

Concen: 10.105 ppbv

RT: 3.45 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL034507.D

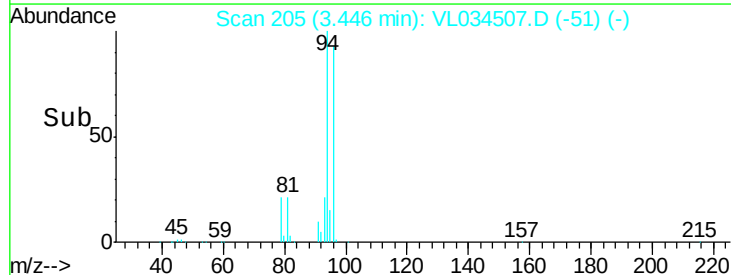
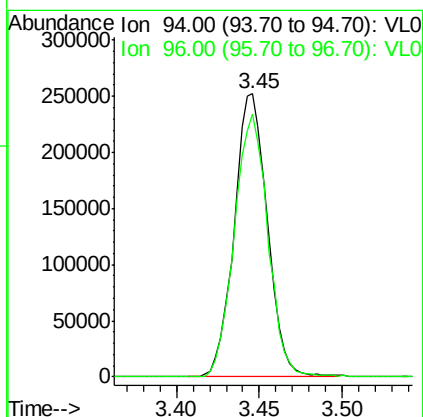
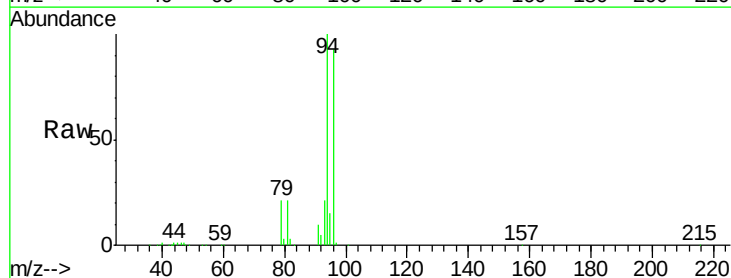
Acq: 18 Dec 2019 9:05

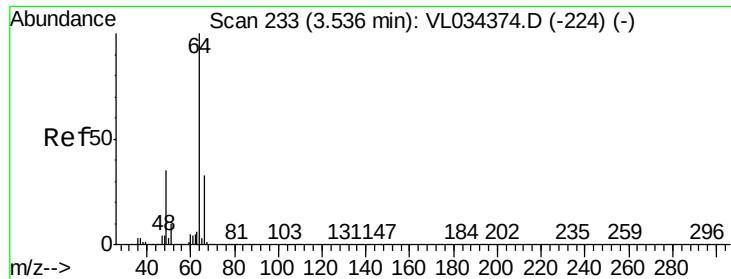
Tgt Ion: 94 Resp: 351468

Ion Ratio Lower Upper

94 100

96 93.0 79.5 119.3





#7

Chloroethane

Concen: 9.814 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tot Ion: 64 Resp: 246248

Ion Ratio Lower Upper

64 100

66 34.3 26.0 39.0

Instrument :

MSVOA_L

ClientSampleId :

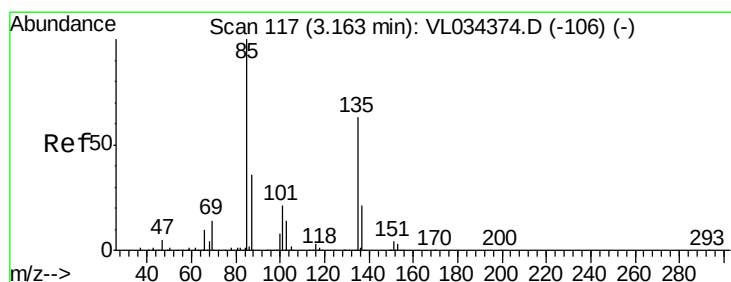
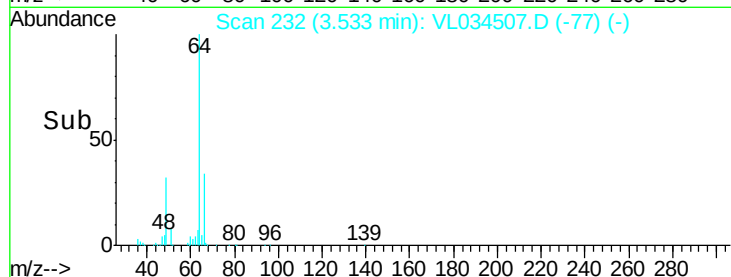
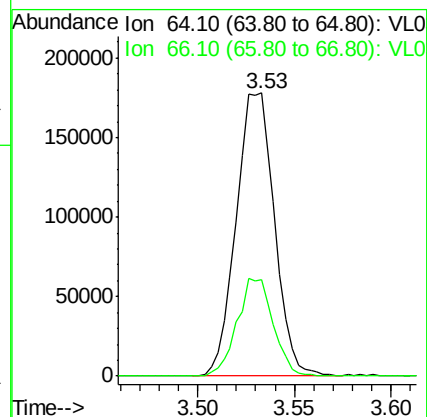
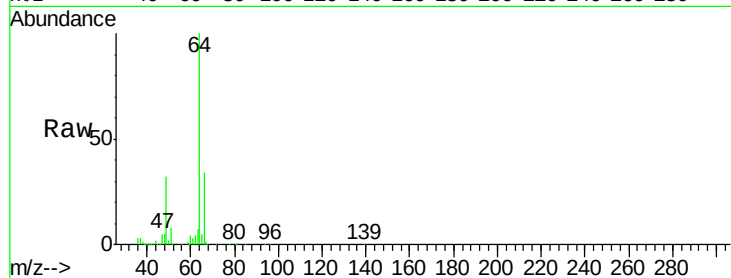
VSTDCCC010EC

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#8

Dichlorotetrafluoroethane

Concen: 9.228 ppbv

RT: 3.16 min Scan# 115

Delta R.T. -0.01 min

Lab File: VL034507.D

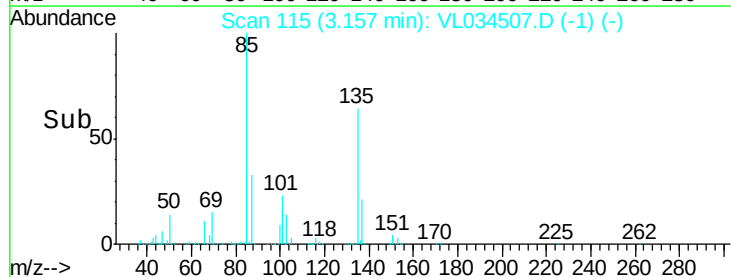
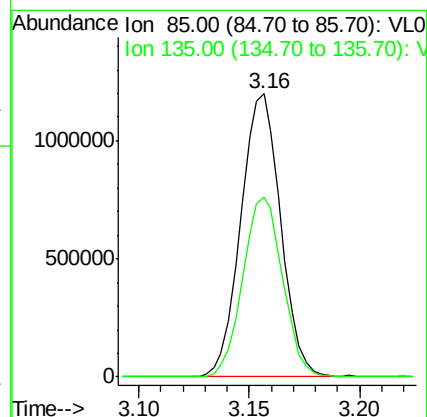
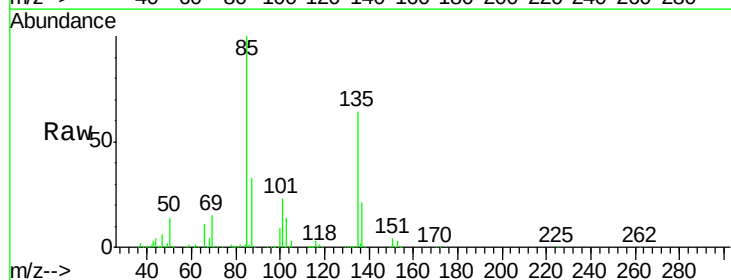
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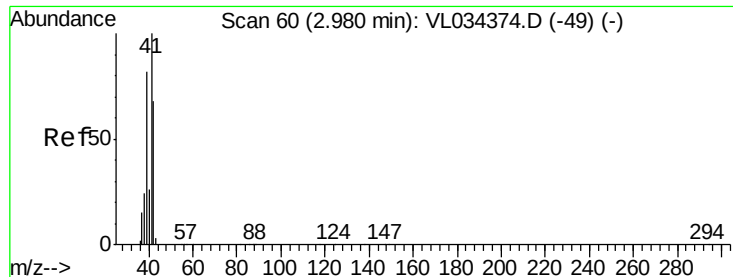
Tgt Ion: 85 Resp: 1503058

Ion Ratio Lower Upper

85 100

135 63.7 51.1 76.7





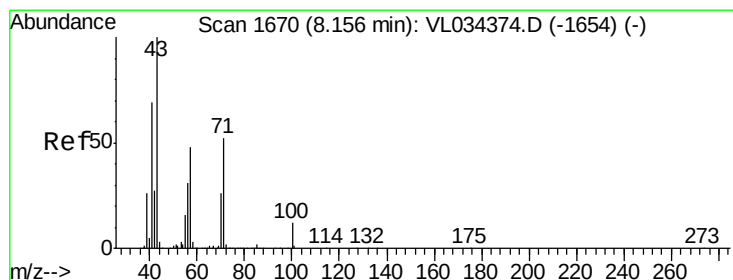
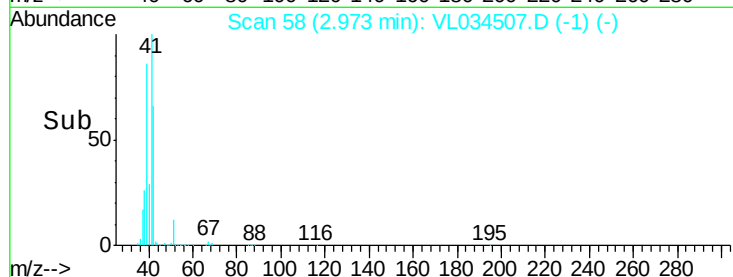
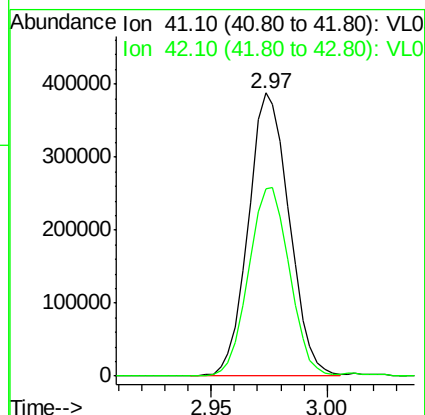
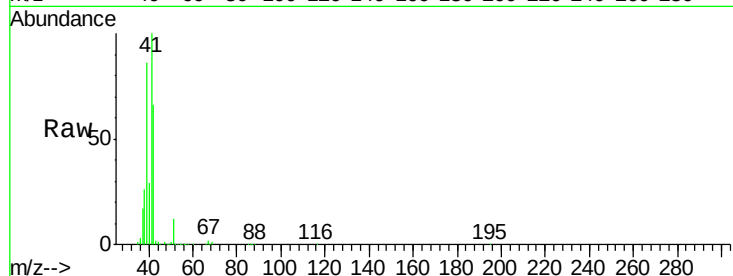
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 Propene
 Concen: 8.583 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 41 Resp: 476670
 Ion Ratio Lower Upper
 41 100
 42 67.8 54.6 82.0

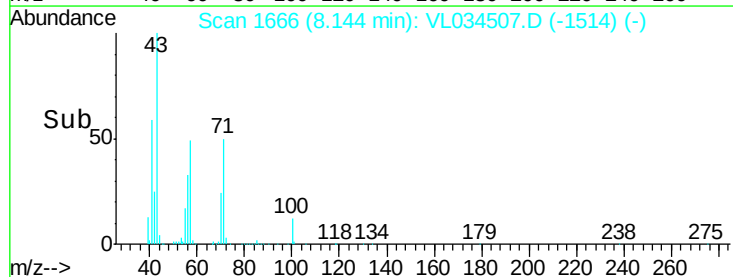
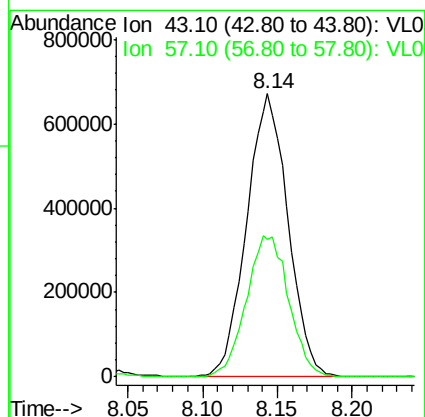
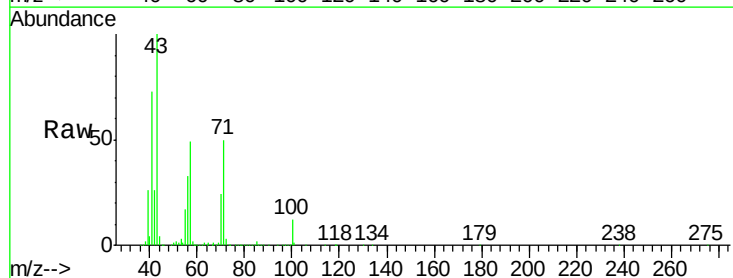
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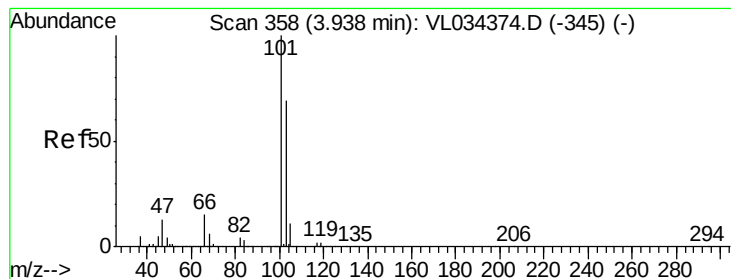
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#10
 Heptane
 Concen: 8.954 ppbv
 RT: 8.14 min Scan# 1666
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion: 43 Resp: 1283267
 Ion Ratio Lower Upper
 43 100
 57 51.6 40.2 60.2





#11

Trichlorofluoromethane

Concen: 9.755 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1760874

Ion Ratio Lower Upper

101 100

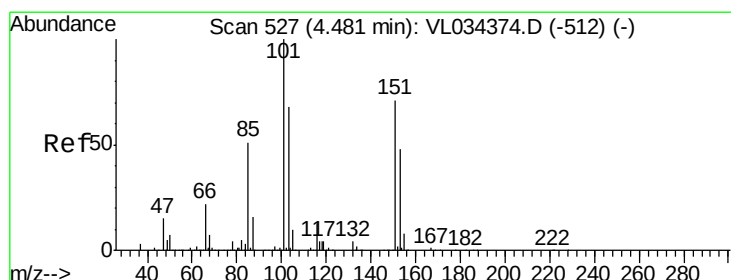
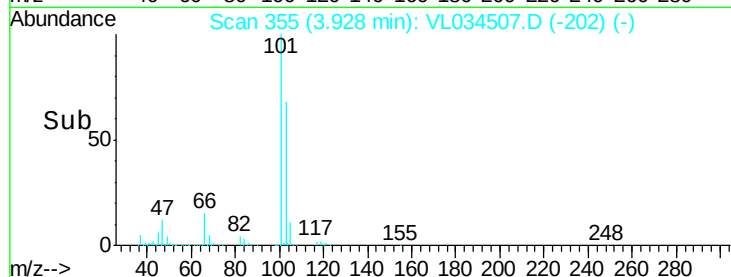
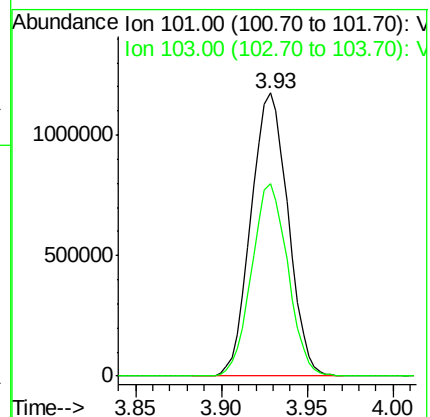
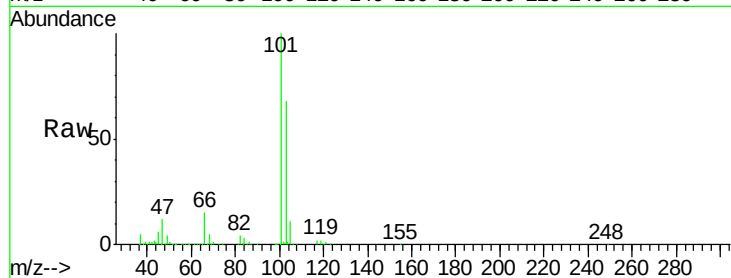
103 67.8 55.4 83.0

Manual Integrations

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.746 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.01 min

Lab File: VL034507.D

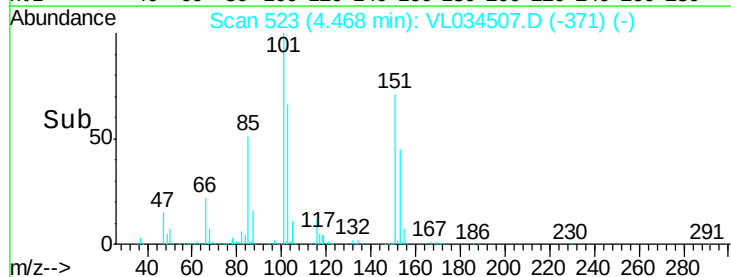
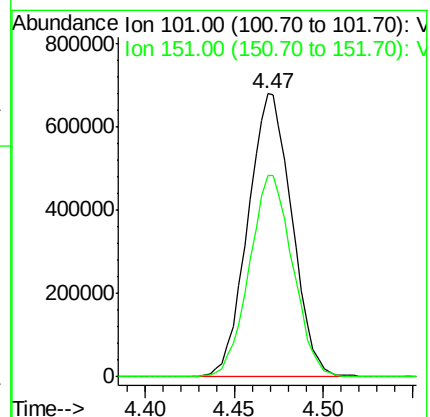
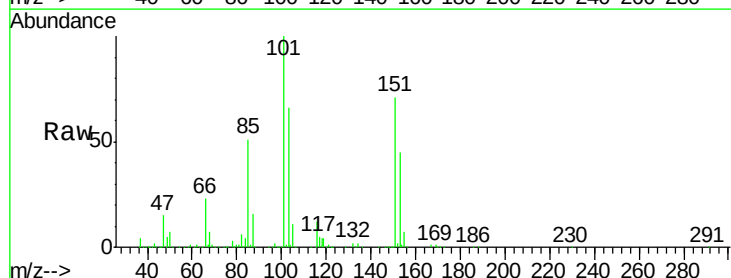
Acq: 18 Dec 2019 9:05

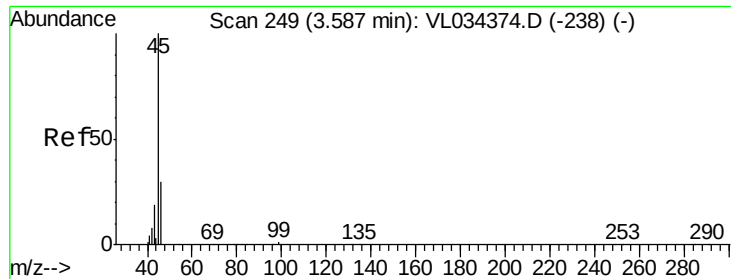
Tgt Ion:101 Resp: 1168225

Ion Ratio Lower Upper

101 100

151 70.7 57.4 86.2





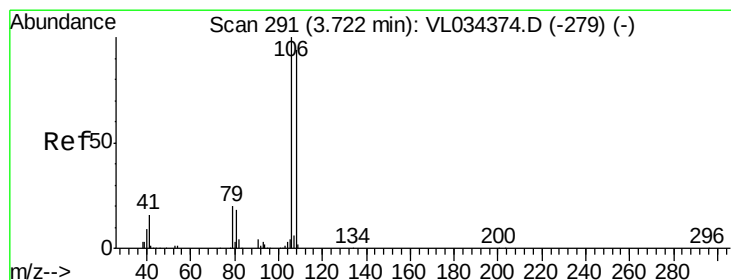
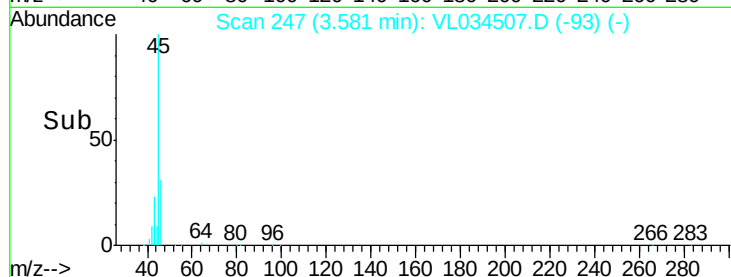
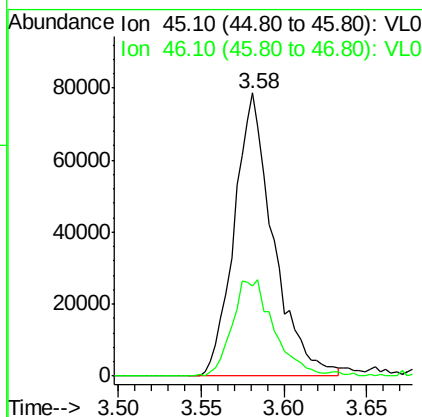
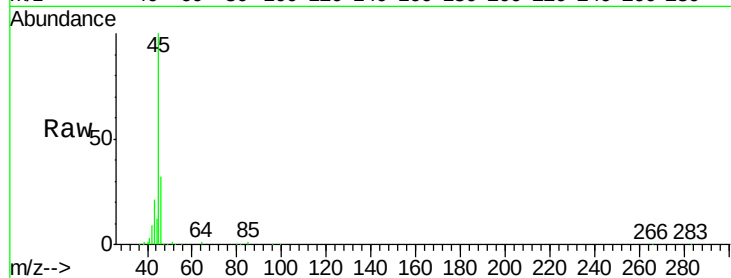
#13
Ethanol
Concen: 8.347 ppbv
RT: 3.58 min Scan# 247
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.0	13.8	55.4

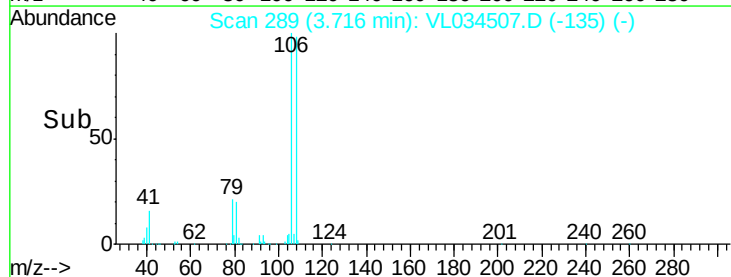
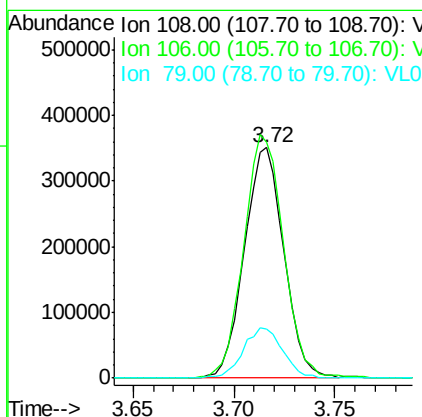
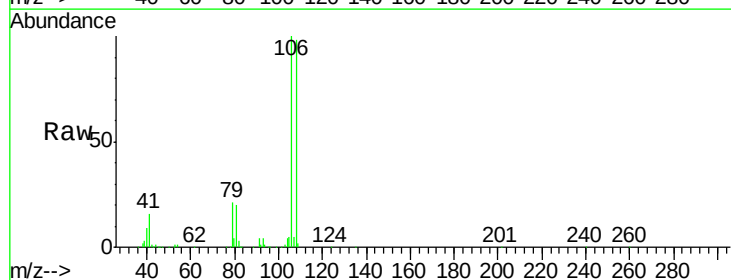
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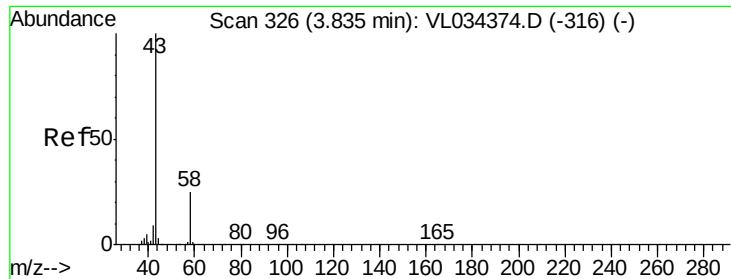
MMDadoda
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#14
Bromoethene
Concen: 9.888 ppbv
RT: 3.72 min Scan# 289
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.9	85.7	128.5
79	21.7	17.2	25.8





#15

Acetone

Concen: 10.418 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1495660

Ion Ratio Lower Upper

43 100

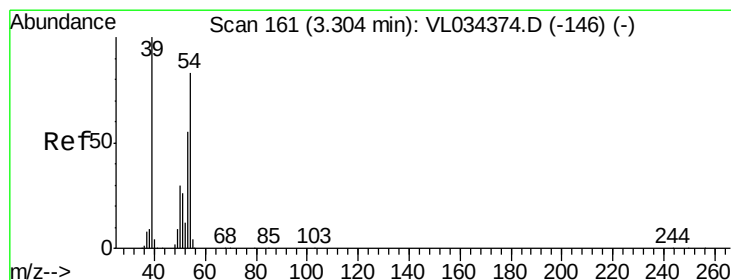
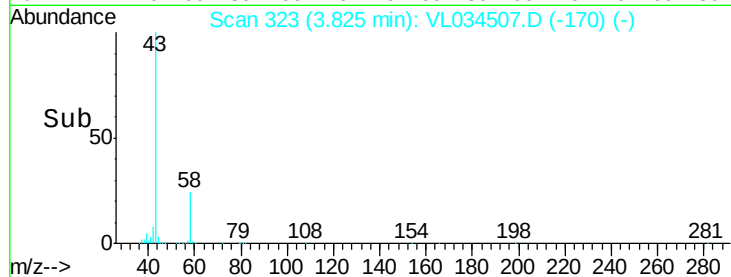
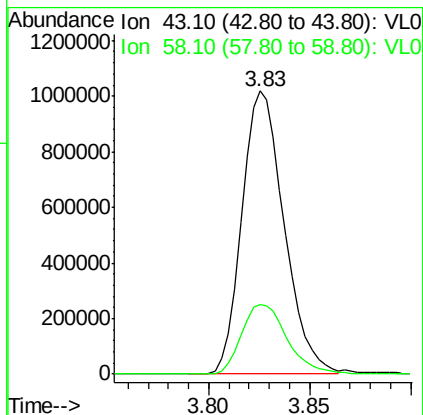
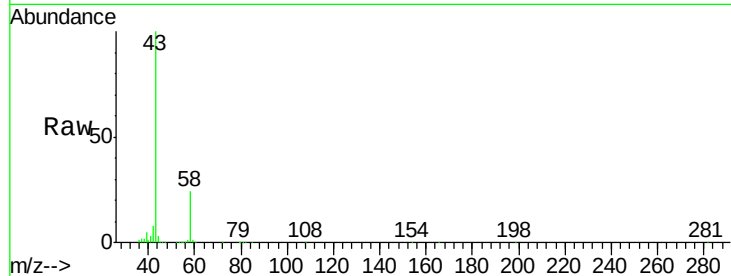
58 26.9 20.2 30.4

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.389 ppbv

RT: 3.29 min Scan# 158

Delta R.T. -0.01 min

Lab File: VL034507.D

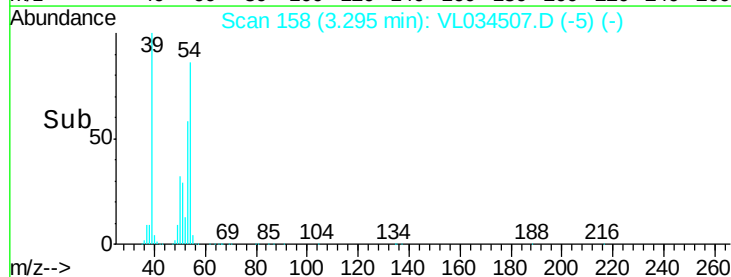
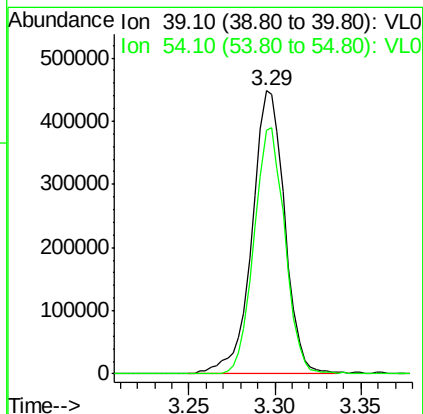
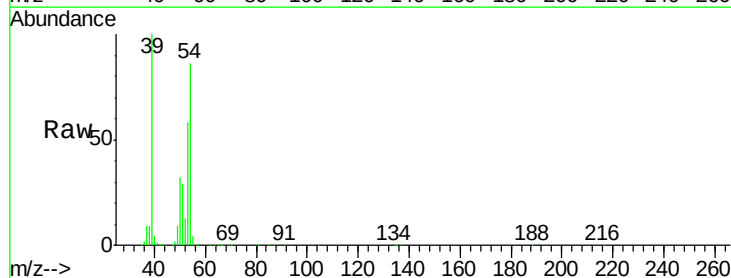
Acq: 18 Dec 2019 9:05

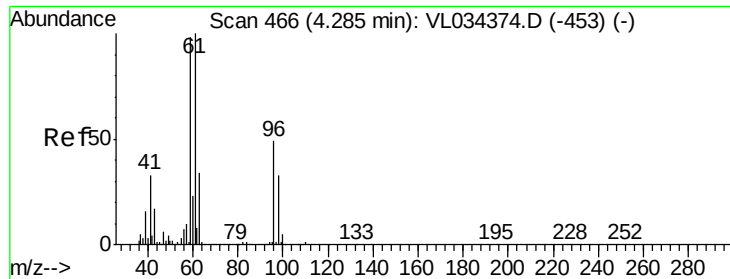
Tgt Ion: 39 Resp: 587169

Ion Ratio Lower Upper

39 100

54 82.7 64.7 97.1





#17

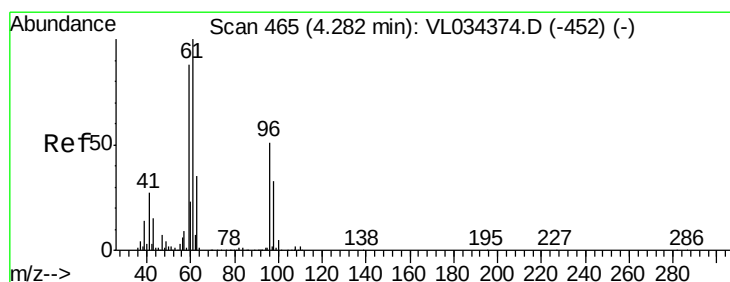
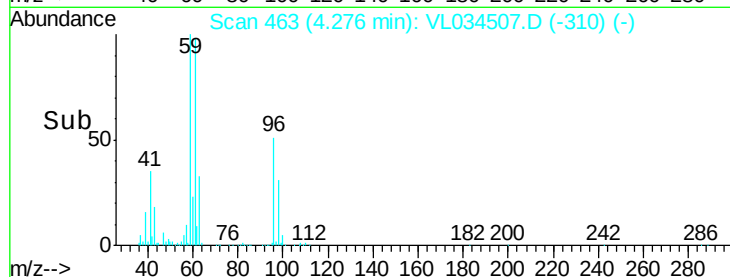
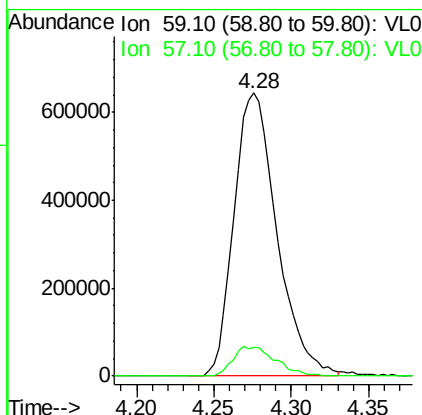
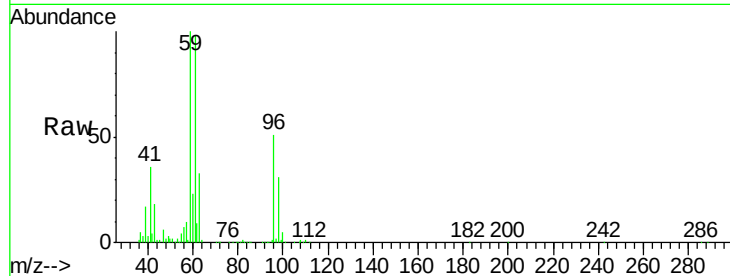
tert-Butyl alcohol
Concen: 10.292 ppbv
RT: 4.28 min Scan# 463
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1242031
Ion Ratio Lower Upper
59 100
57 10.7 8.8 13.2

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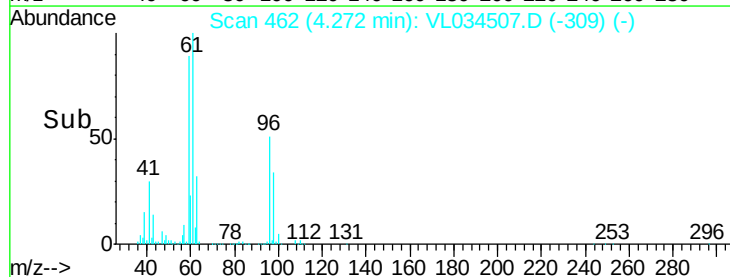
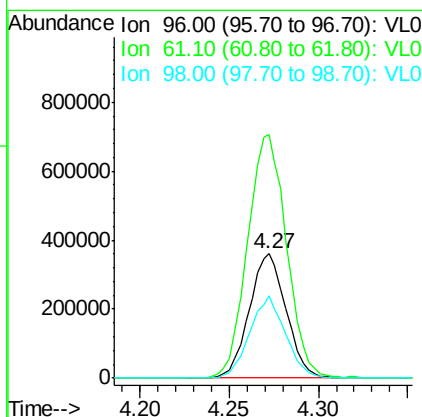
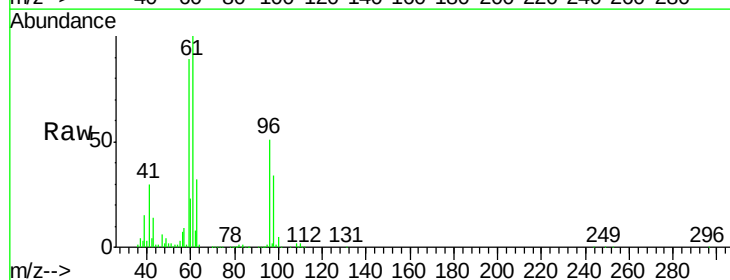
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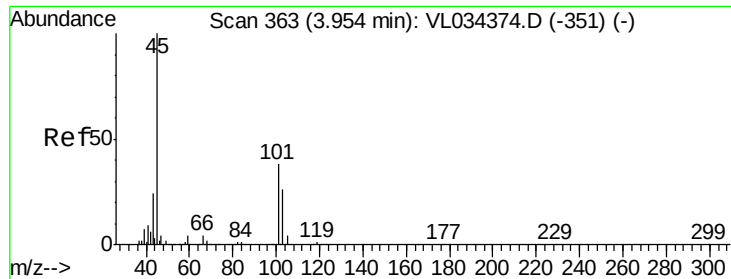


#18

1,1-Dichloroethene
Concen: 9.941 ppbv
RT: 4.27 min Scan# 462
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 96 Resp: 521273
Ion Ratio Lower Upper
96 100
61 196.0 155.6 233.4
98 66.2 51.6 77.4





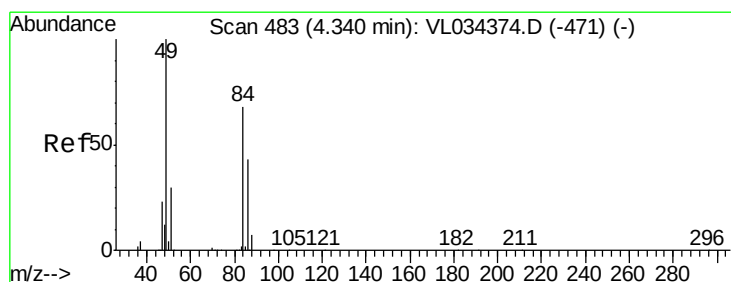
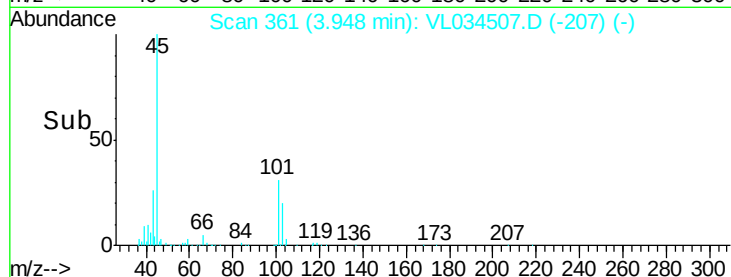
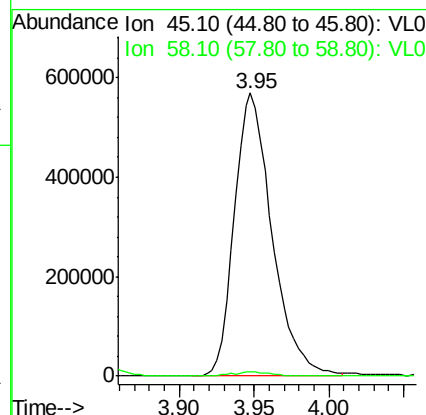
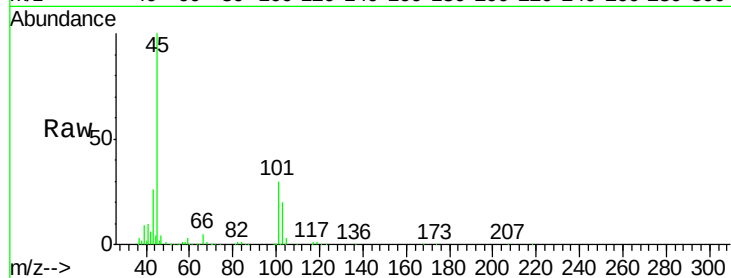
#19
Isopropyl Alcohol
Concen: 10.841 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.8	1.3	1.9

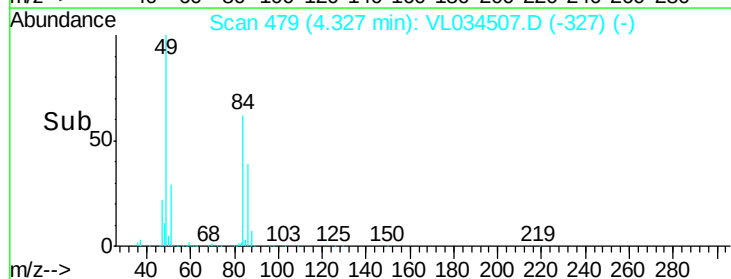
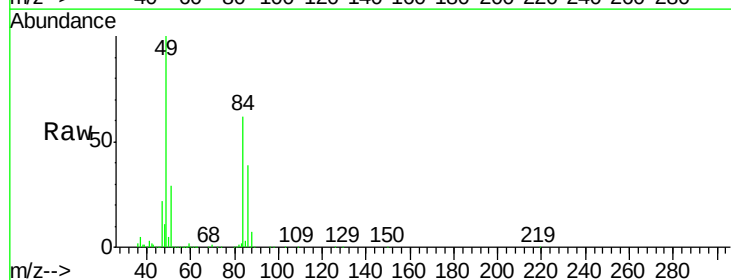
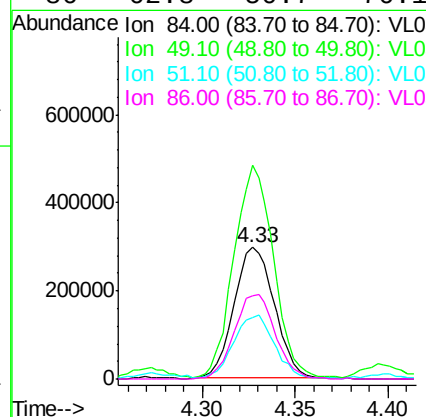
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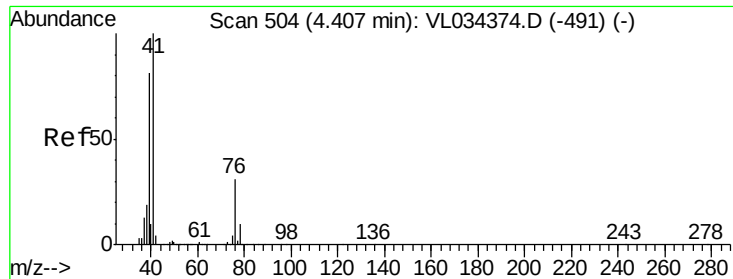
MMDadoda
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#20
Methylene Chloride
Concen: 8.891 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
84	100		
49	161.8	116.8	175.2
51	46.0	35.6	53.4
86	62.8	50.7	76.1





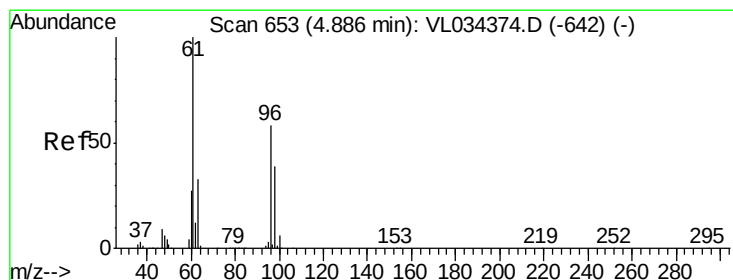
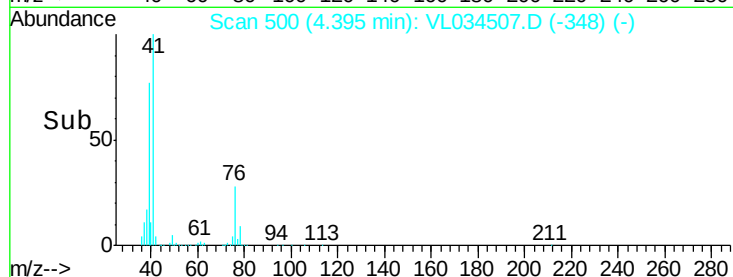
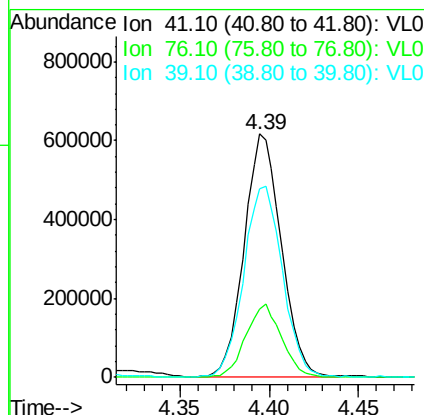
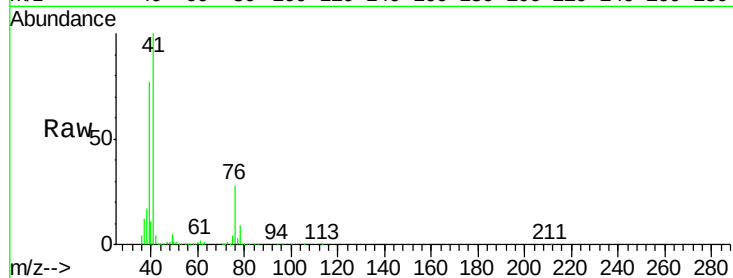
#21
Allvl Chloride
Concen: 10.382 ppbv
RT: 4.39 min Scan# 500
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.3	24.2	36.2
39	82.8	66.9	100.3

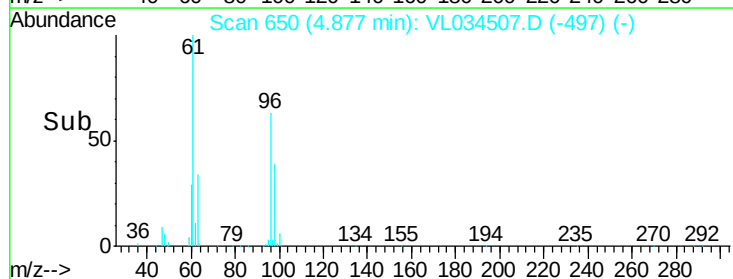
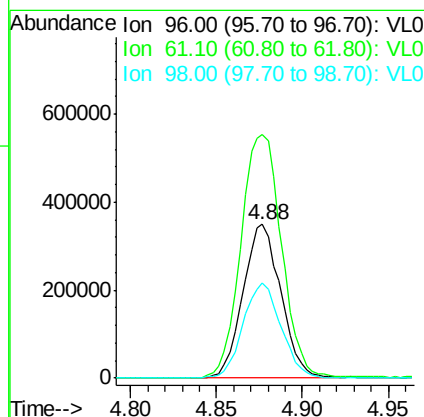
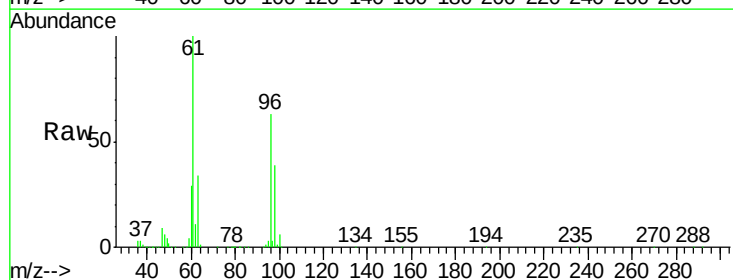
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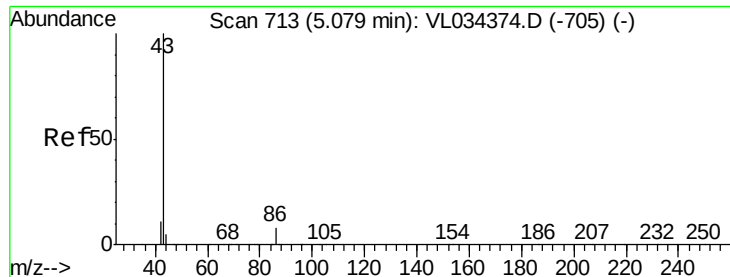
MMDadoda
12/19/2019 3:48:16 PM



#22
trans-1,2-Dichloroethene
Concen: 10.117 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.6	137.9	206.9
98	61.7	53.5	80.3





#23

Vinyl Acetate

Concen: 10.274 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1926749

Ion Ratio Lower Upper

43 100

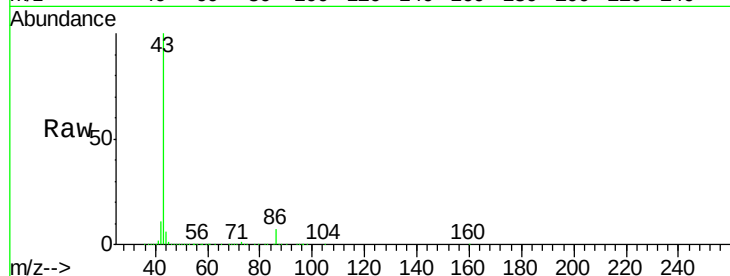
86 7.4 5.8 8.6

42 10.8 8.9 13.3

44 5.5 4.0 6.0

Manual Integrations
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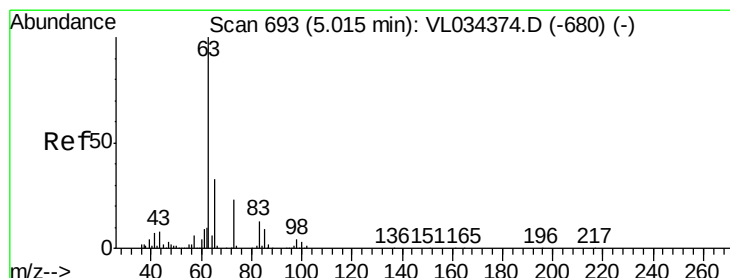
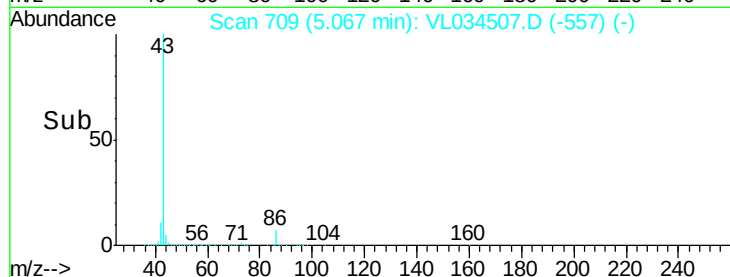
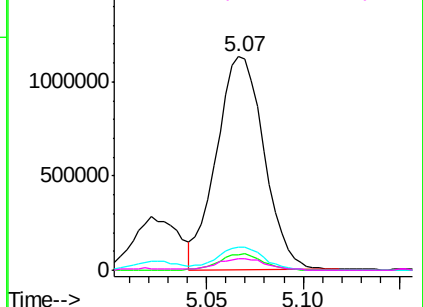


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.143 ppbv

RT: 5.00 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

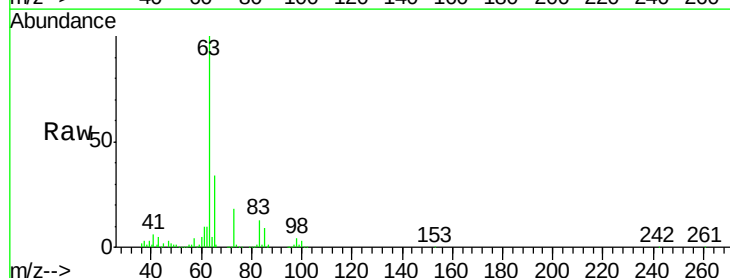
Tgt Ion: 63 Resp: 1317084

Ion Ratio Lower Upper

63 100

98 4.1 1.9 5.7

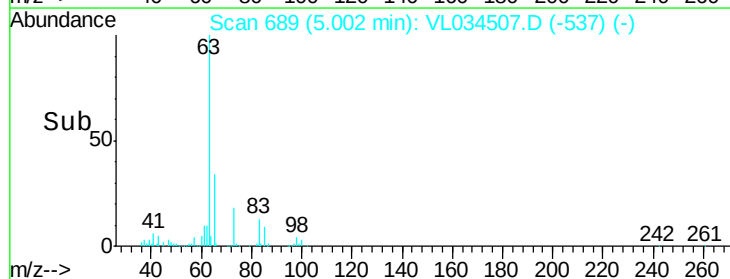
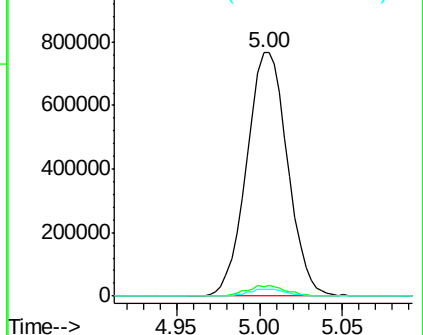
100 2.6 1.4 4.0

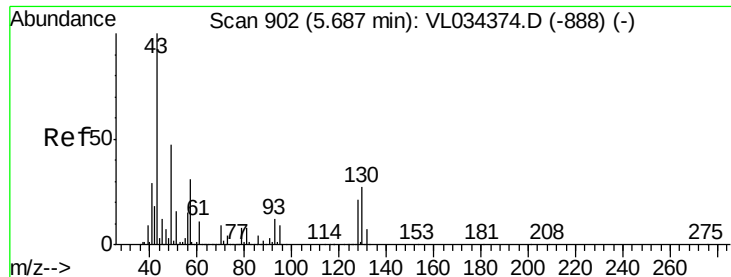


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.037 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2315219

Ion Ratio Lower Upper

43 100

45 10.2 8.2 12.4

61 9.2 7.5 11.3

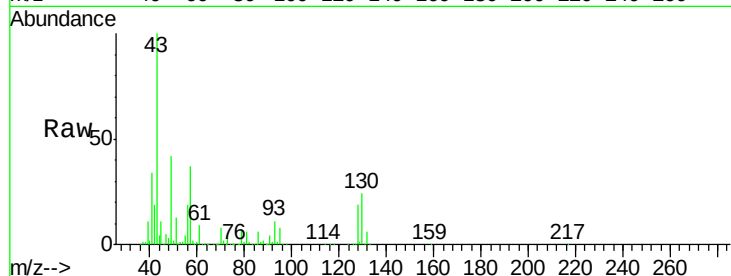
70 7.2 5.7 8.5

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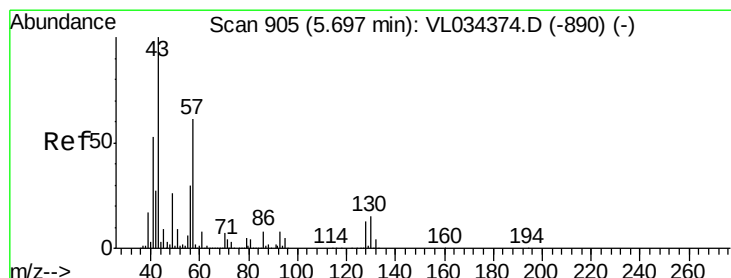
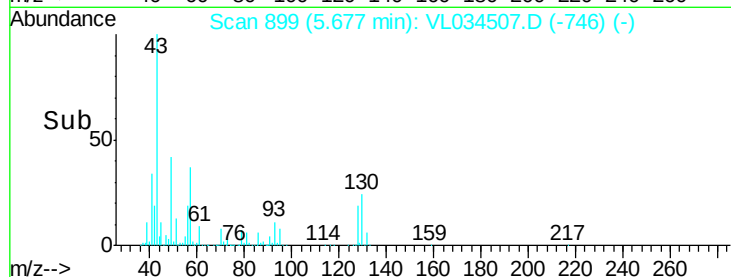
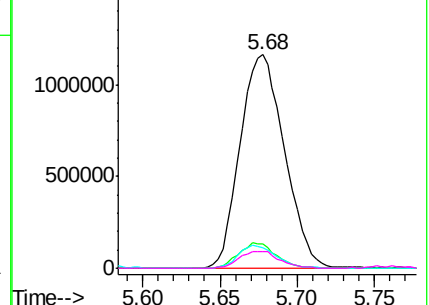


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.953 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion: 57 Resp: 985536

Ion Ratio Lower Upper

57 100

41 93.6 75.0 112.4

43 236.0 186.6 279.8

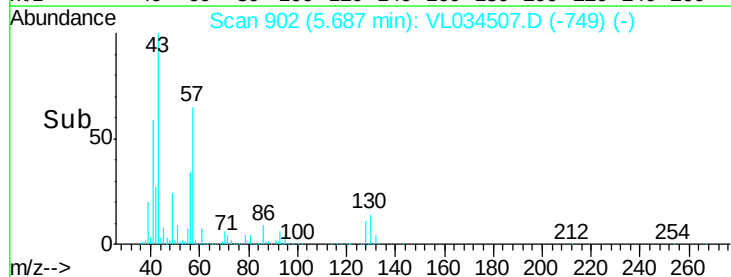
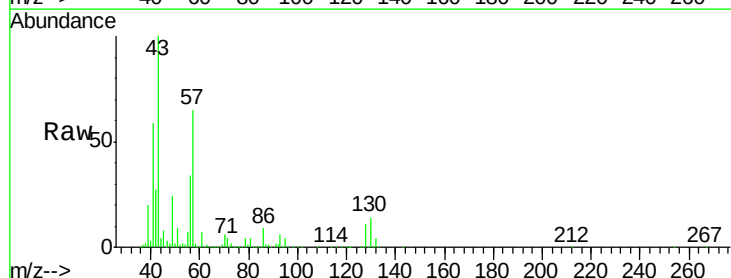
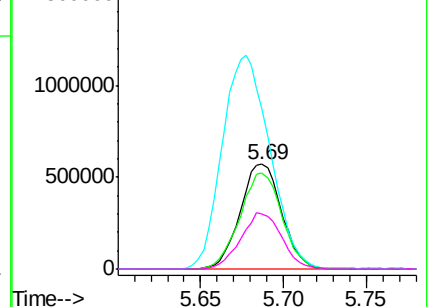
56 53.3 41.5 62.3

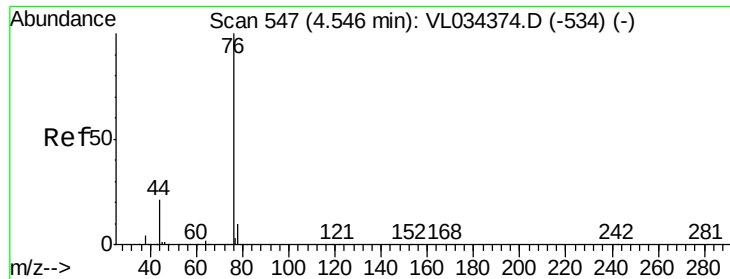
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.321 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1357336

Ion Ratio Lower Upper

76 100

44 20.4 17.0 25.4

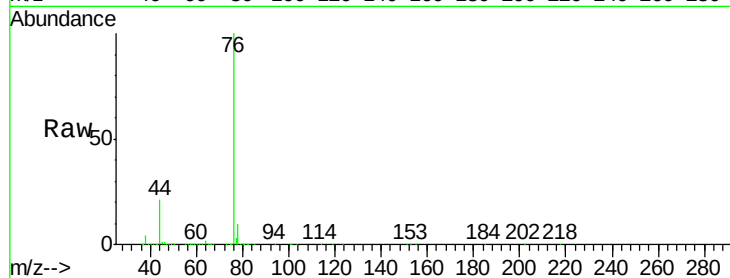
78 9.3 7.6 11.4

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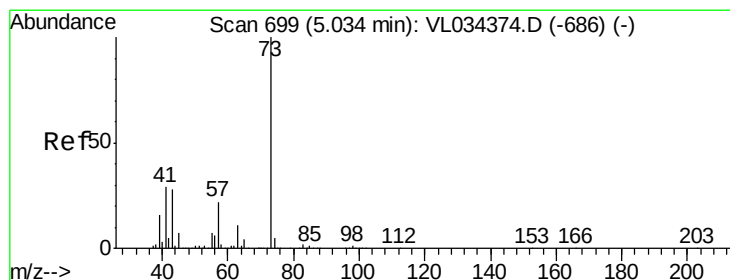
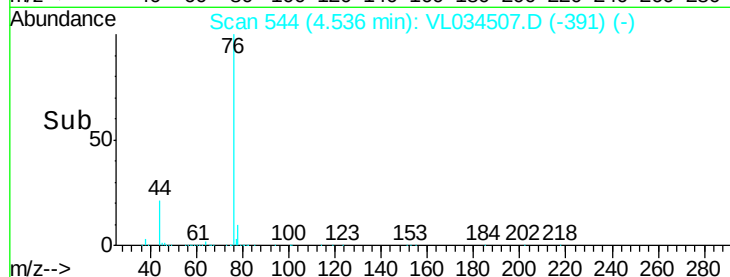
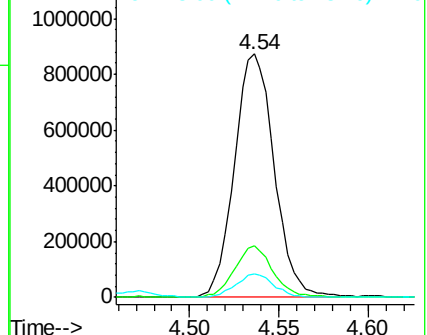
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.381 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.01 min

Lab File: VL034507.D

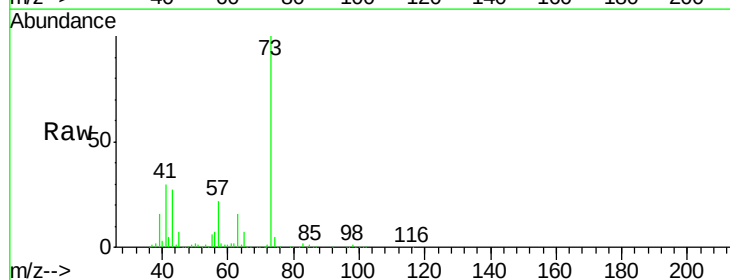
Acq: 18 Dec 2019 9:05

Tgt Ion: 73 Resp: 1712414

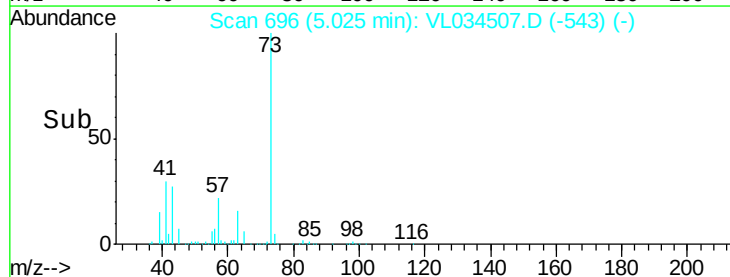
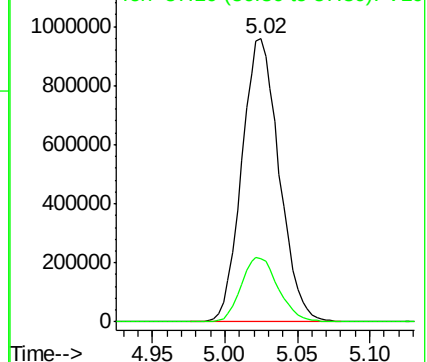
Ion Ratio Lower Upper

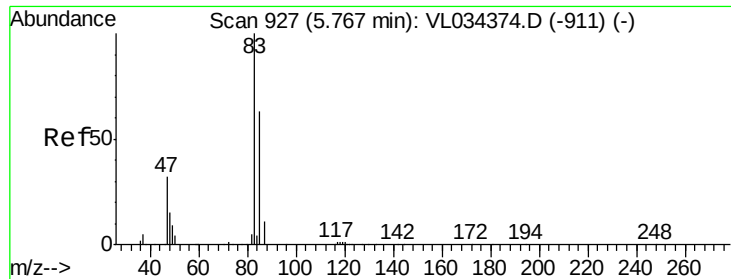
73 100

57 22.8 18.4 27.6



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





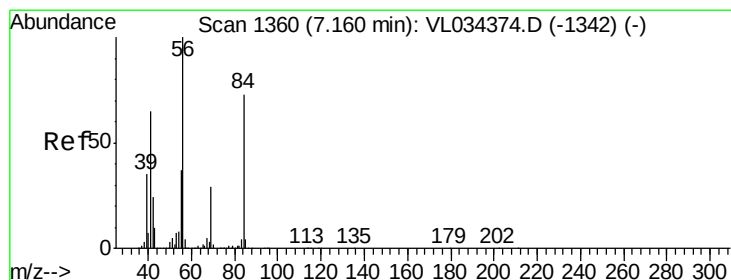
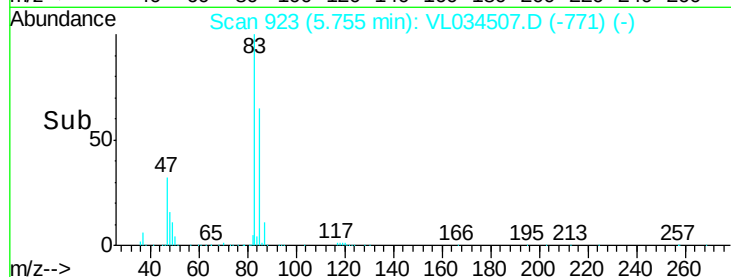
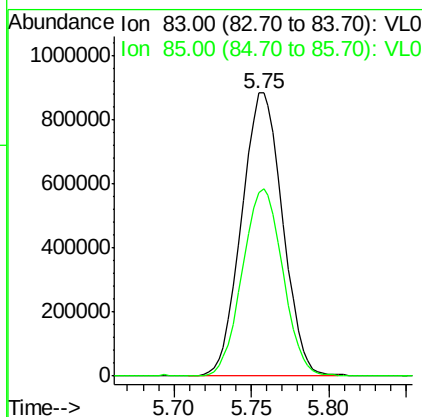
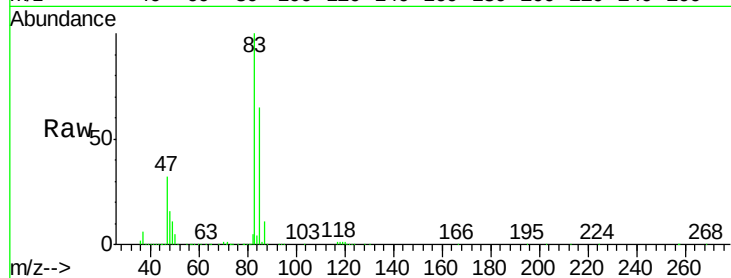
#29
Chloroform
Concen: 9.142 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1629712
Ion Ratio Lower Upper
83 100
85 64.9 50.4 75.6

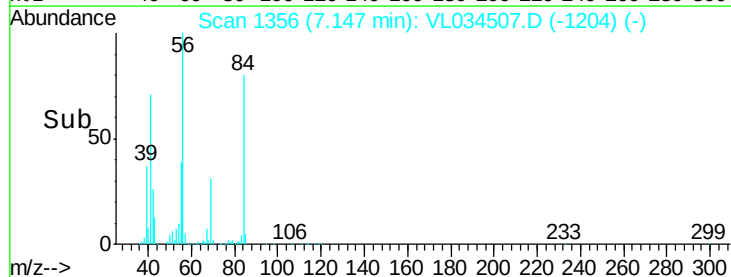
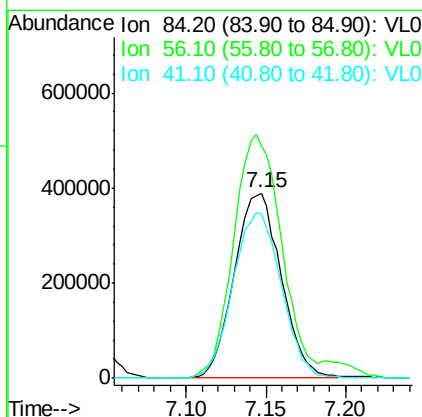
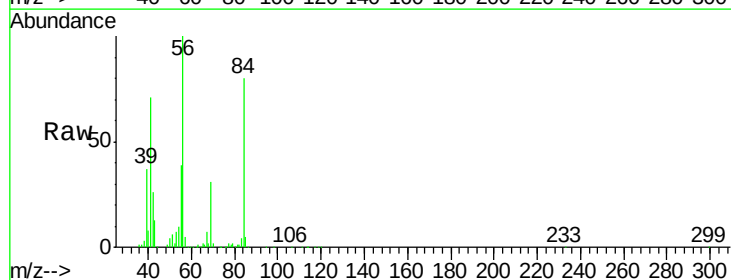
Manual Integrations
APPROVED

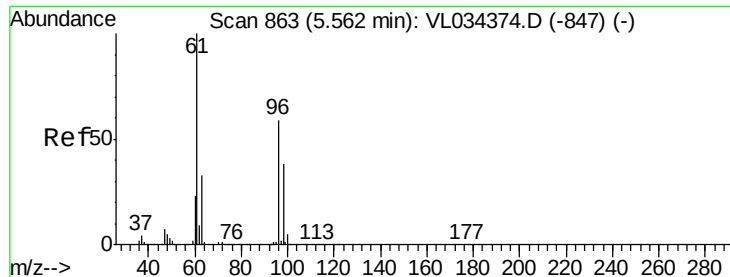
MMDadoda
12/19/2019 3:48:16 PM



#30
Cyclohexane
Concen: 9.359 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 84 Resp: 778847
Ion Ratio Lower Upper
84 100
56 141.1 112.6 169.0
41 92.4 73.4 110.2





#31

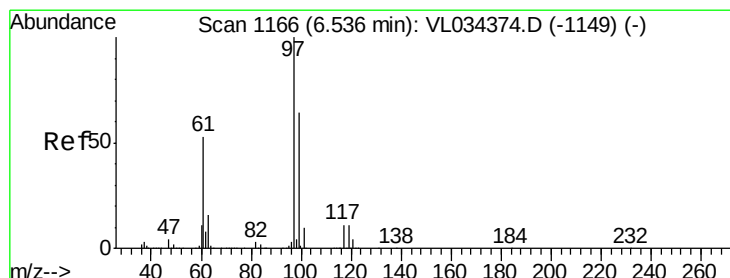
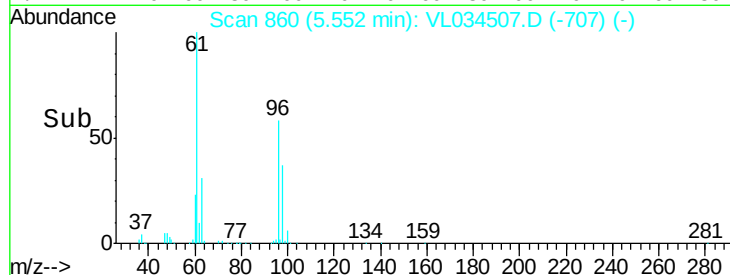
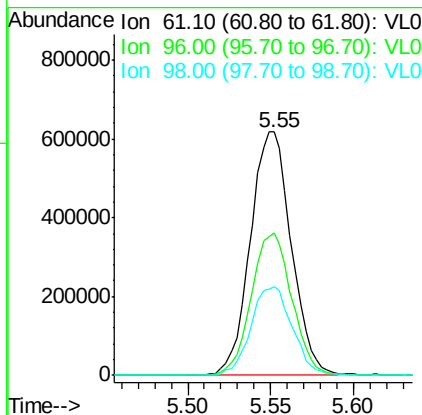
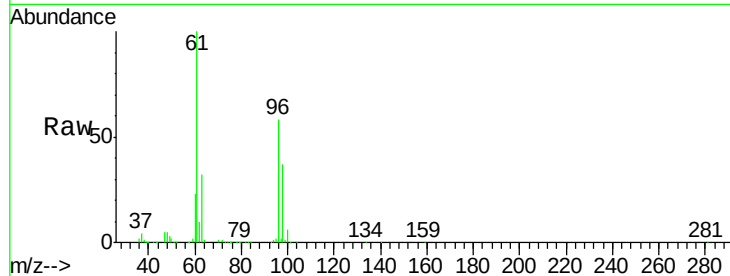
cis-1,2-Dichloroethene
Concen: 9.299 ppbv
RT: 5.55 min Scan# 860
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.2	47.4	71.2
98	36.5	30.6	45.8

Manual Integrations
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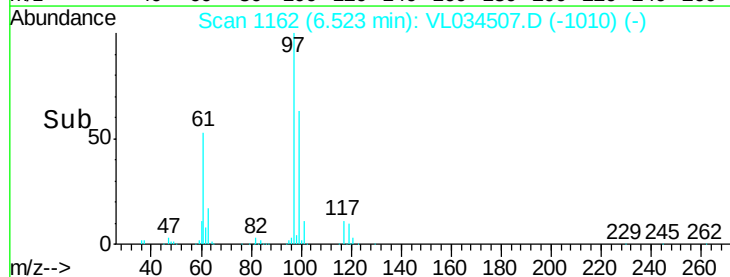
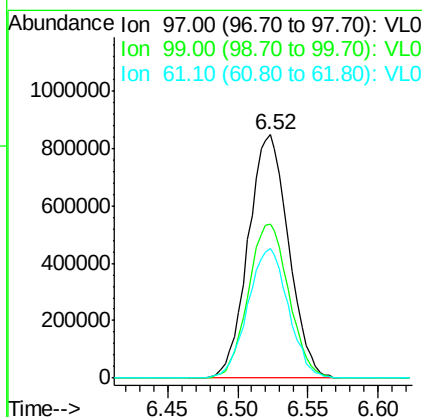
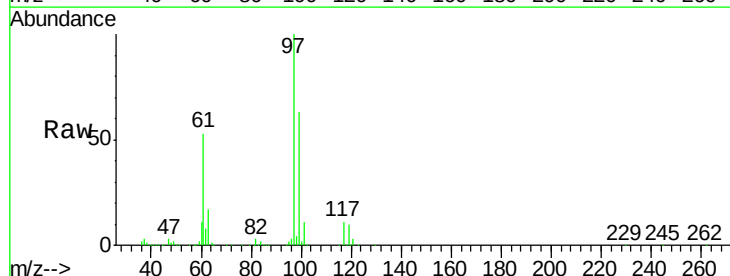
MMDadoda
12/19/2019 3:48:16 PM

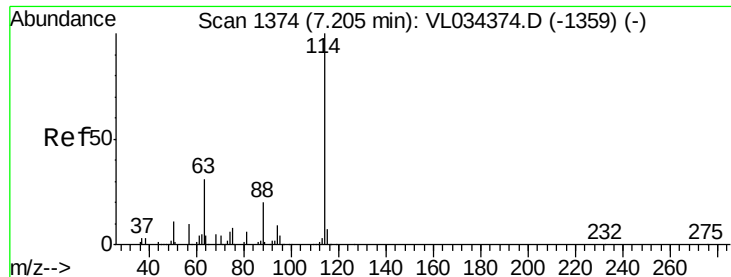


#32

1,1,1-Trichloroethane
Concen: 10.165 ppbv
RT: 6.52 min Scan# 1162
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	52.3	78.5
61	53.6	43.7	65.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1371

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

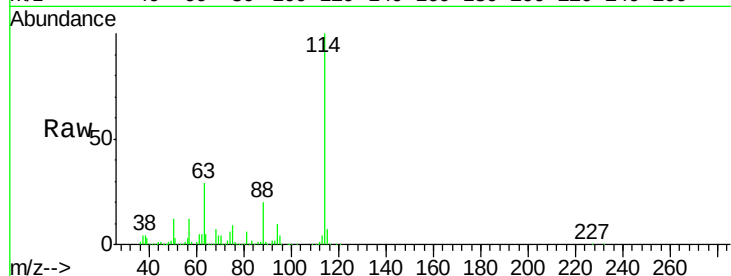
ClientSampleId :

VSTDCCC010EC

Tot Ion:	114	Resp:	1998707
Ion	Ratio	Lower	Upper
114	100		
63	29.7	24.2	36.4
88	19.3	15.9	23.9

Manual Integrations
APPROVED

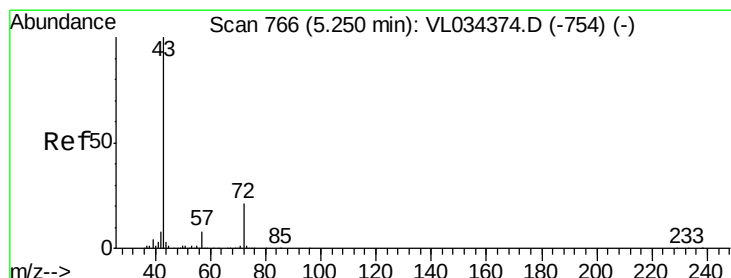
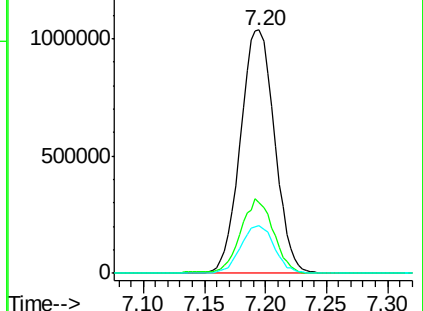
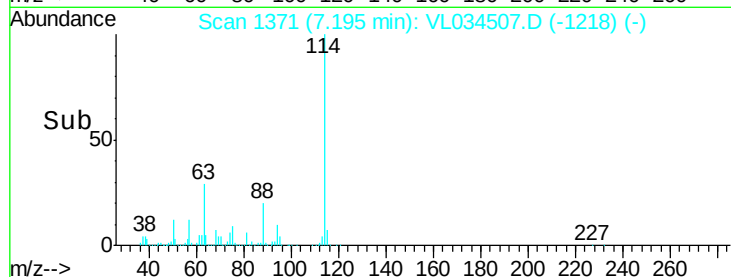
MMDadoda
12/19/2019 3:48:16 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.292 ppbv

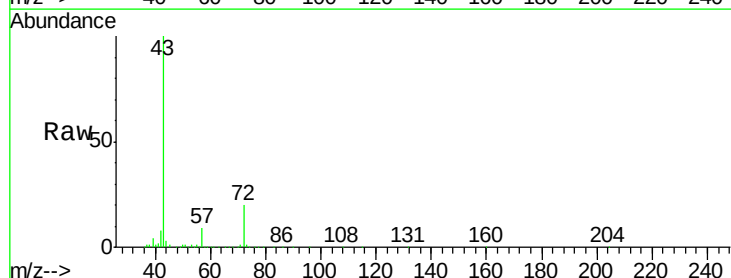
RT: 5.24 min Scan# 762

Delta R.T. -0.01 min

Lab File: VL034507.D

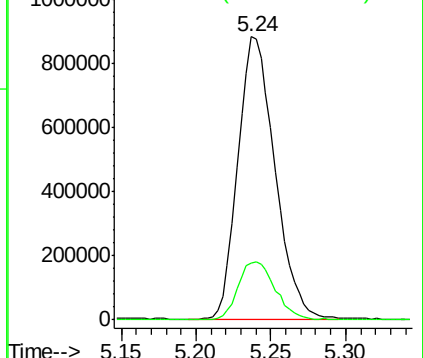
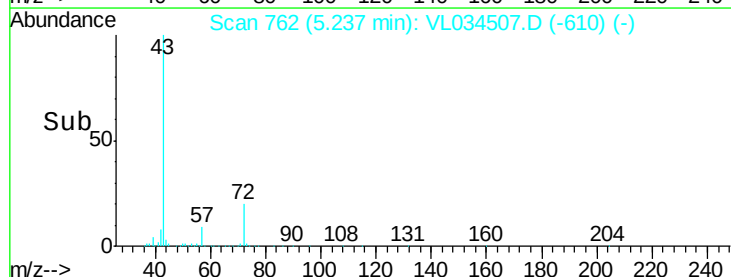
Acq: 18 Dec 2019 9:05

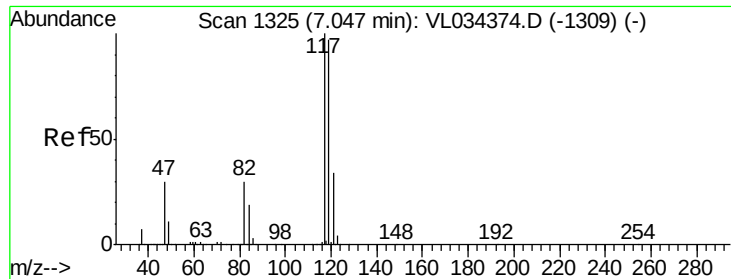
Tgt Ion:	43	Resp:	1528746
Ion	Ratio	Lower	Upper
43	100		
72	20.7	17.0	25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.590 ppbv

RT: 7.03 min Scan# 1320

Delta R.T. -0.02 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1819788

Ion Ratio Lower Upper

117 100

119 92.5 77.3 115.9

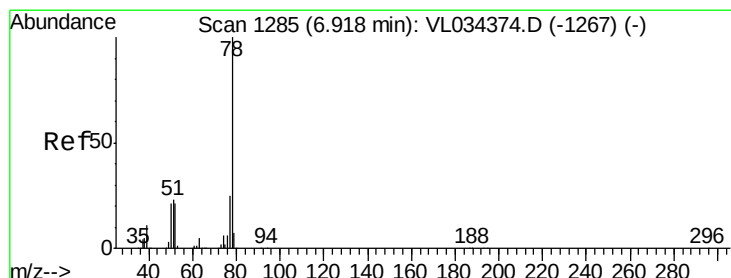
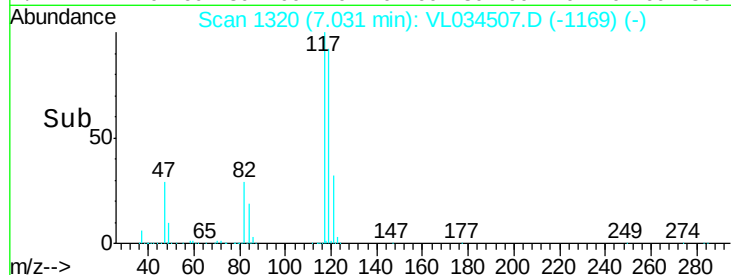
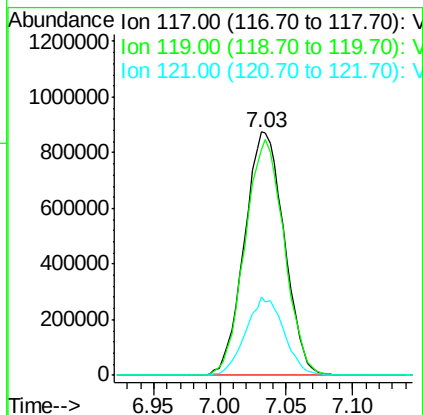
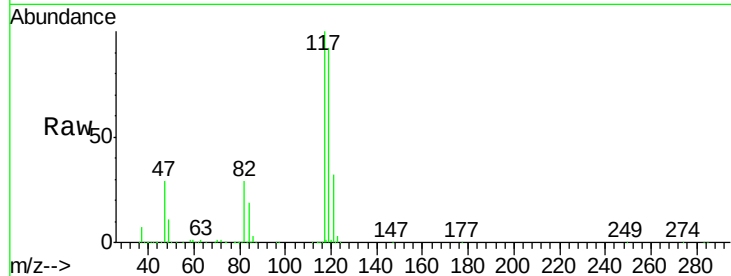
121 32.1 27.4 41.2

Manual Integrations

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#36

Benzene

Concen: 9.352 ppbv

RT: 6.91 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

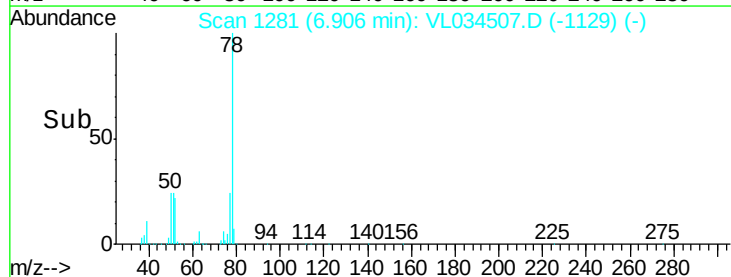
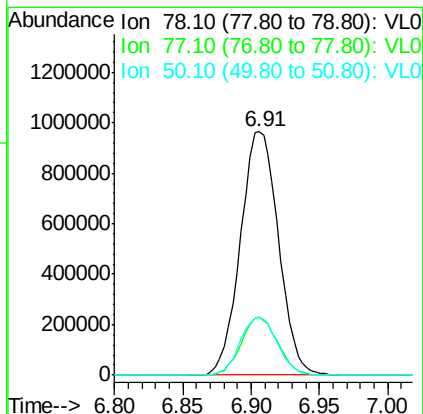
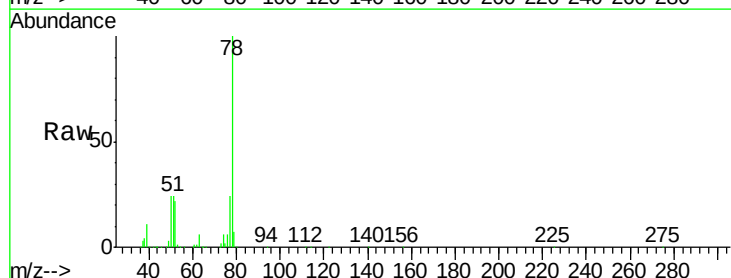
Tgt Ion: 78 Resp: 1868573

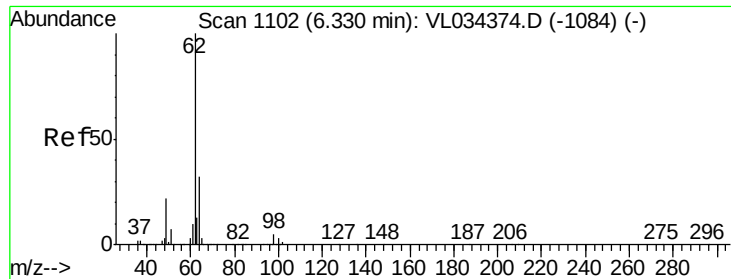
Ion Ratio Lower Upper

78 100

77 23.6 20.2 30.4

50 23.6 17.1 25.7





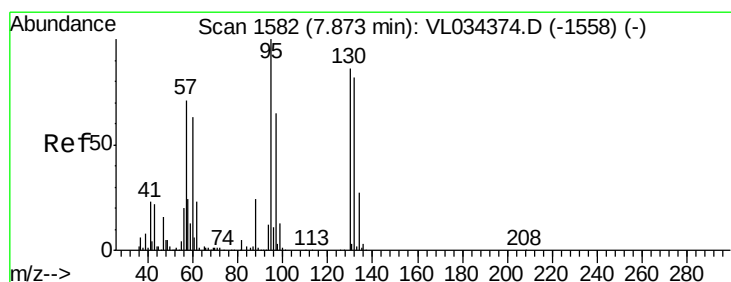
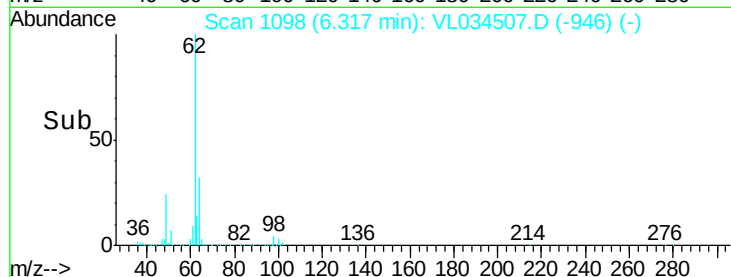
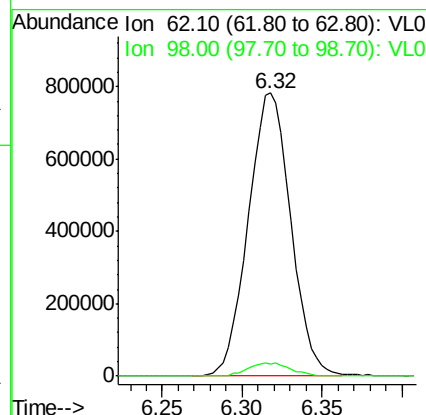
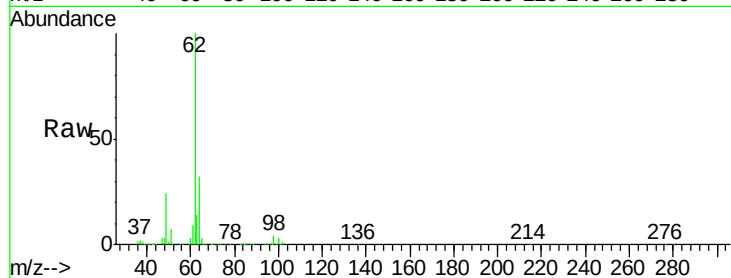
#37
 1,2-Dichloroethane
 Concen: 9.597 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.7	3.8	5.8

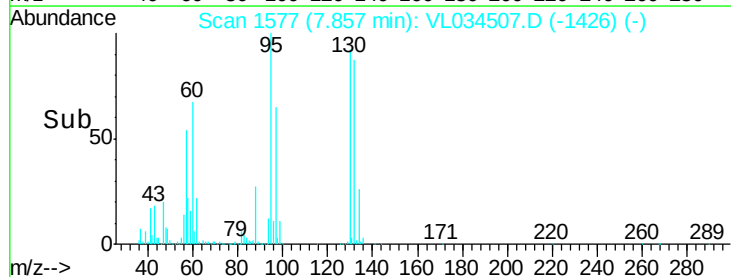
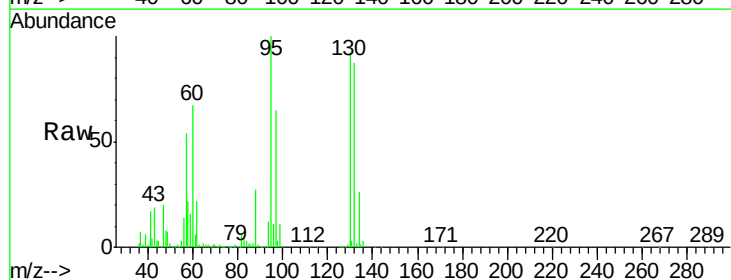
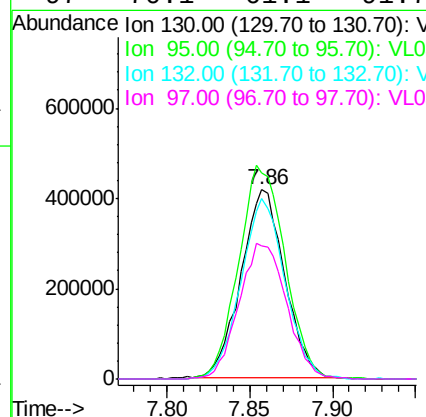
Manual Integrations
 APPROVED

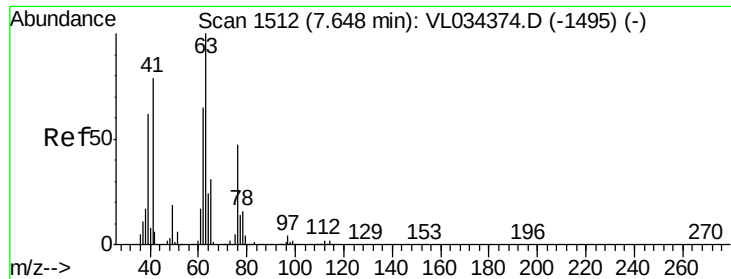
MMDadoda
 12/19/2019 3:48:16 PM



#38
 Trichloroethene
 Concen: 9.375 ppbv
 RT: 7.86 min Scan# 1577
 Delta R.T. -0.02 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.9	93.4	140.0
132	95.3	76.4	114.6
97	70.1	61.1	91.7





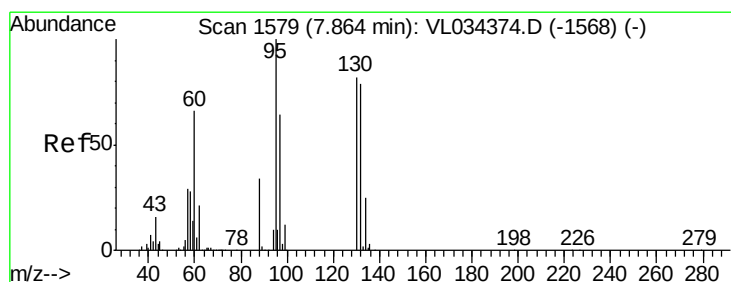
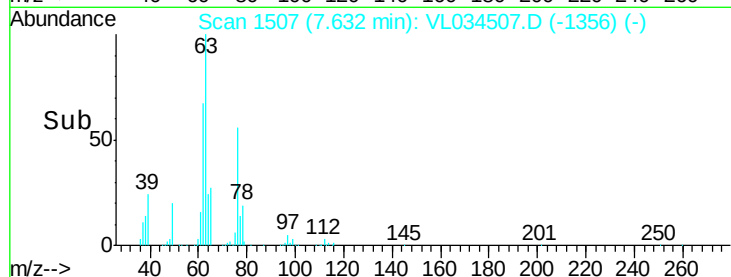
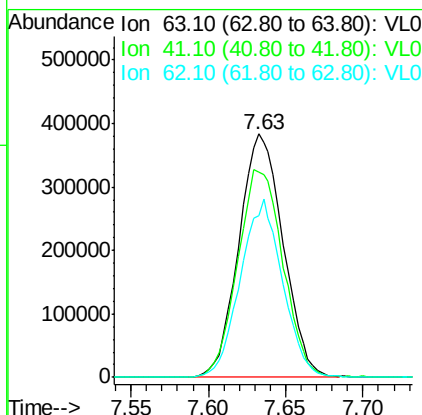
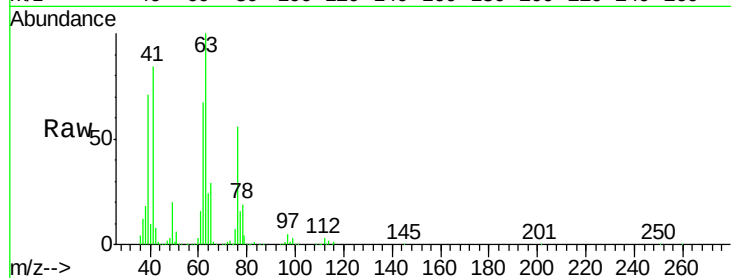
#39
 1,2-Dichloropropane
 Concen: 9.860 ppbv
 RT: 7.63 min Scan# 1507
 Delta R.T. -0.02 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	84.1	63.1	94.7
62	66.6	52.3	78.5

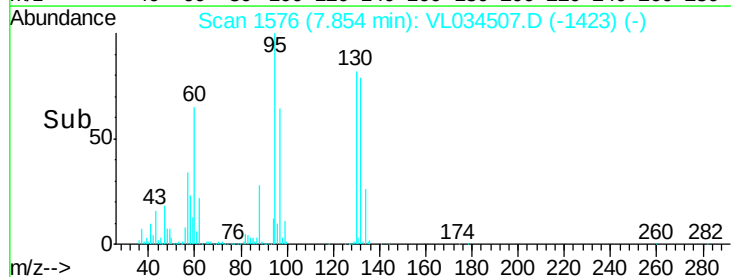
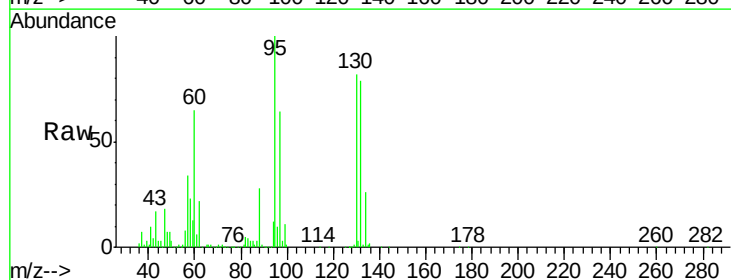
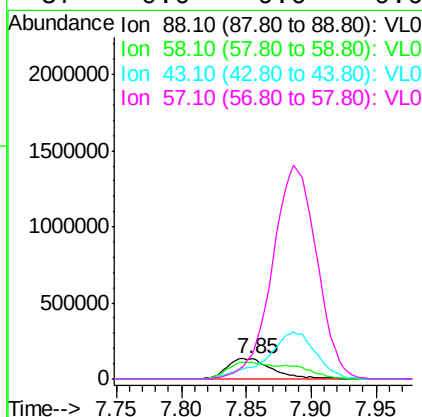
Manual Integrations
 APPROVED

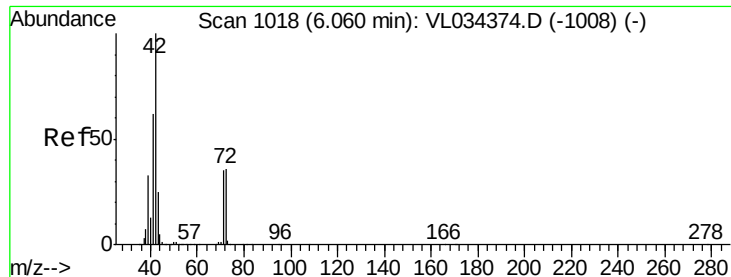
MMDadoda
 12/19/2019 3:48:16 PM



#40
 1,4-Dioxane
 Concen: 9.730 ppbv m
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
88	100		
58	126.4	109.5	164.3
43	0.0	0.0	0.0
57	0.0	0.0	0.0





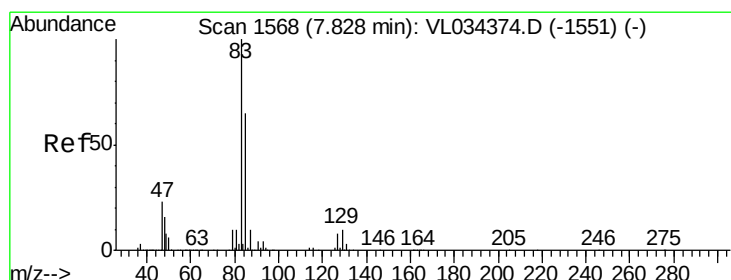
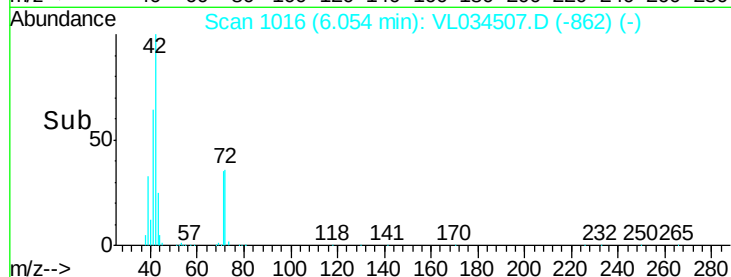
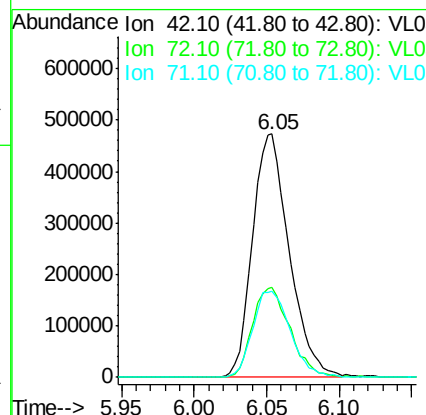
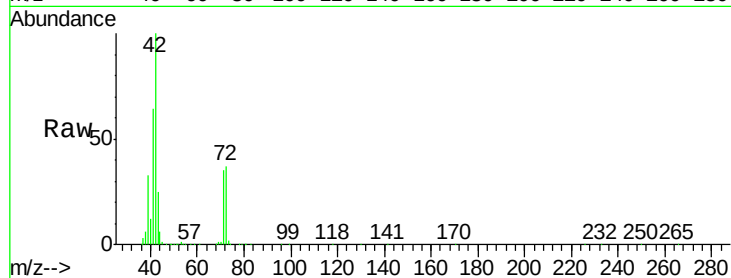
#41
Tetrahydrofuran
Concen: 9.050 ppbv
RT: 6.05 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	30.2	45.4
71	36.4	29.4	44.2

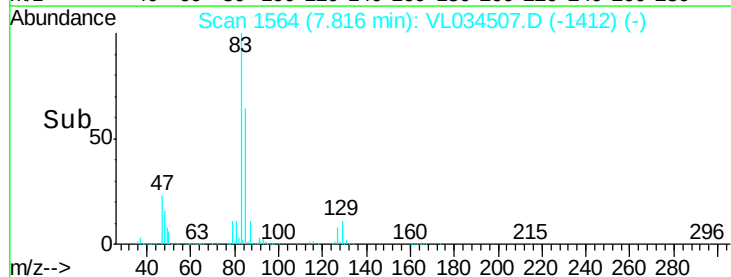
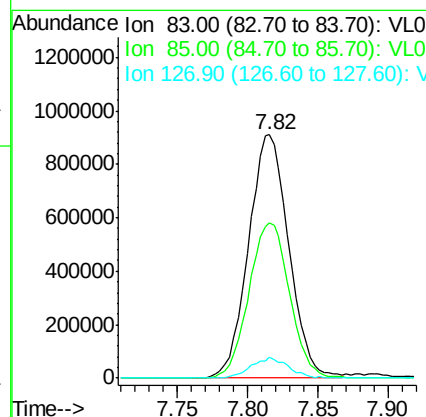
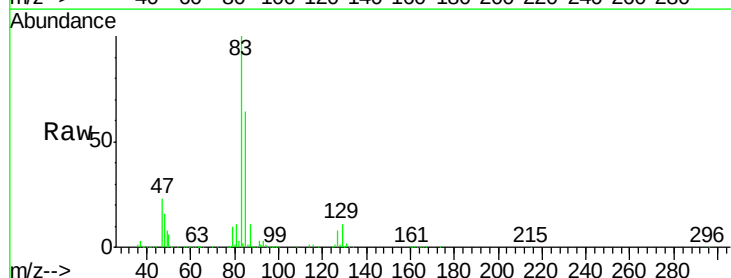
Manual Integrations
APPROVED

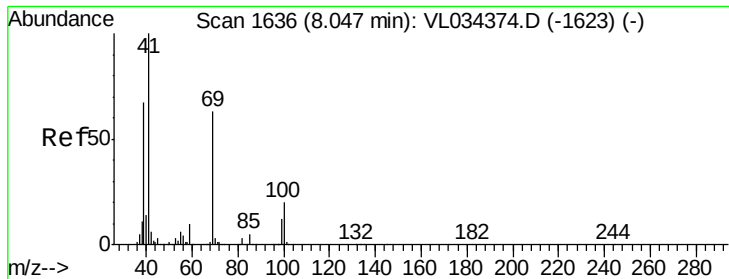
MMDadoda
12/19/2019 3:48:16 PM



#42
Bromodichloromethane
Concen: 9.819 ppbv
RT: 7.82 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.3	78.5
127	8.4	6.1	9.1





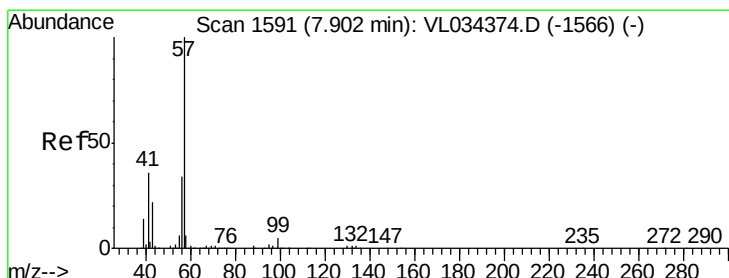
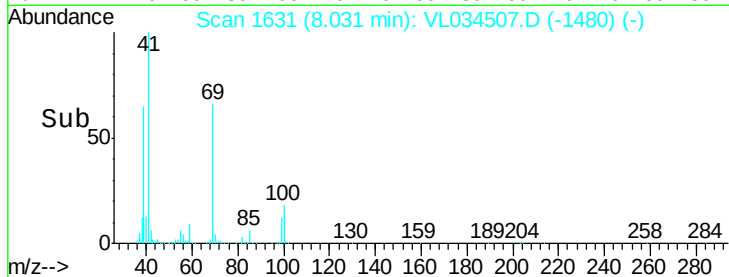
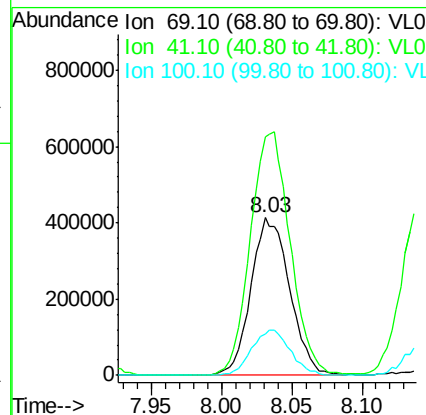
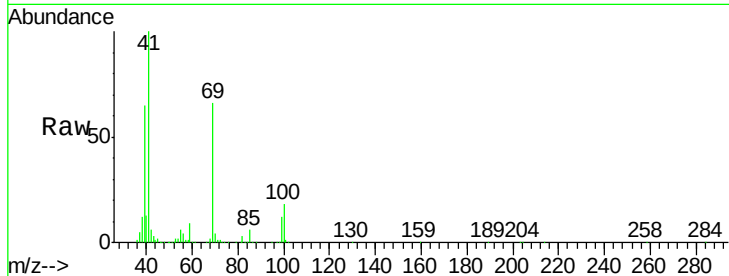
#43
Methyl Methacrylate
Concen: 9.614 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. -0.02 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	158.0	127.4	191.2	
100	28.6	24.2	36.4	

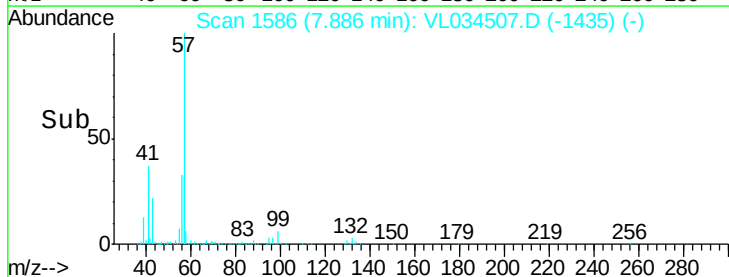
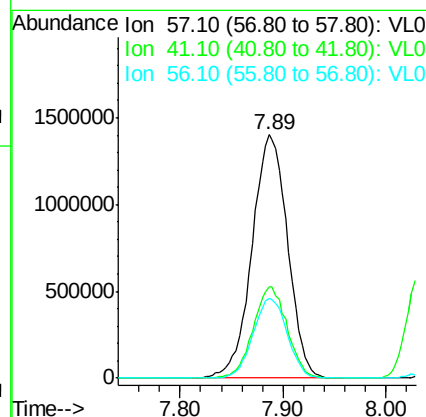
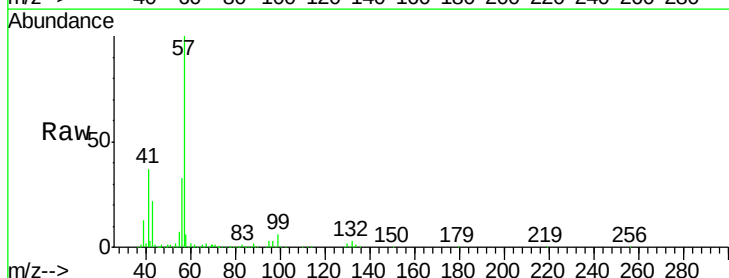
Manual Integrations
APPROVED

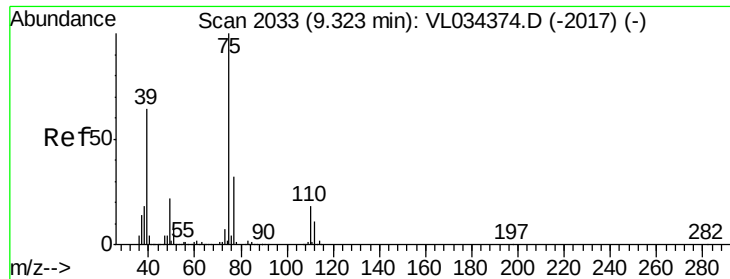
MMDadoda
12/19/2019 3:48:16 PM



#44
2,2,4-Trimethylpentane
Concen: 9.186 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. -0.02 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.8	28.6	42.8	
56	31.5	25.3	37.9	





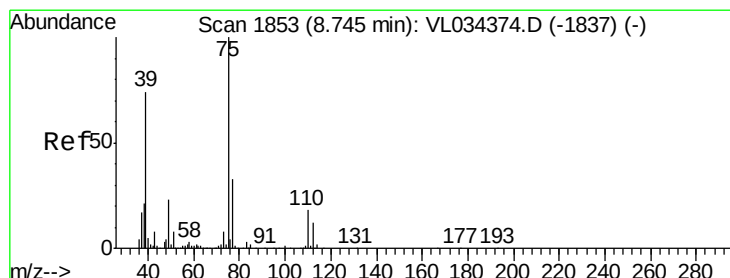
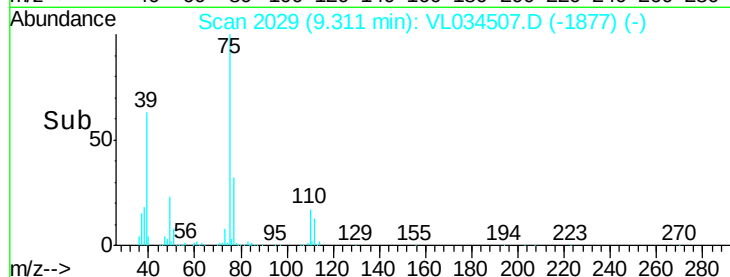
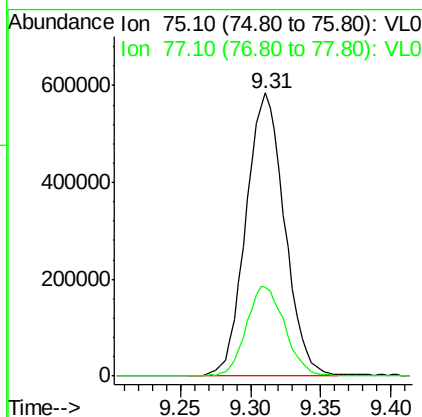
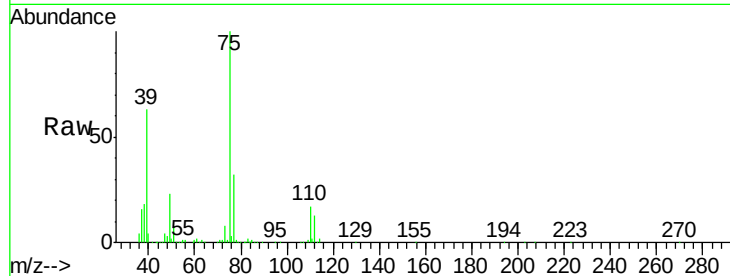
#45
t-1,3-Dichloropropene
Concen: 10.547 ppbv
RT: 9.31 min Scan# 2029
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1120939
Ion Ratio Lower Upper
75 100
77 31.6 25.4 38.2

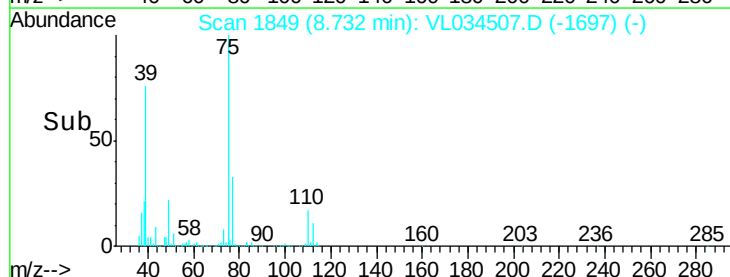
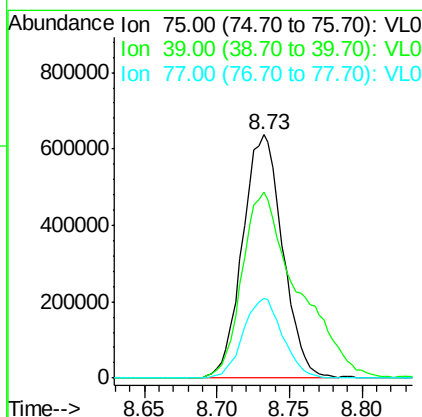
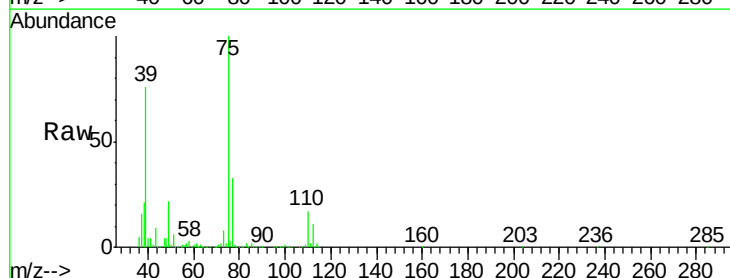
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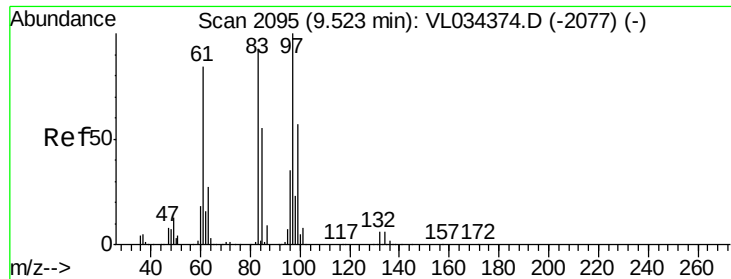
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 10.283 ppbv
RT: 8.73 min Scan# 1849
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 75 Resp: 1227474
Ion Ratio Lower Upper
75 100
39 76.2 59.0 88.6
77 32.6 26.4 39.6





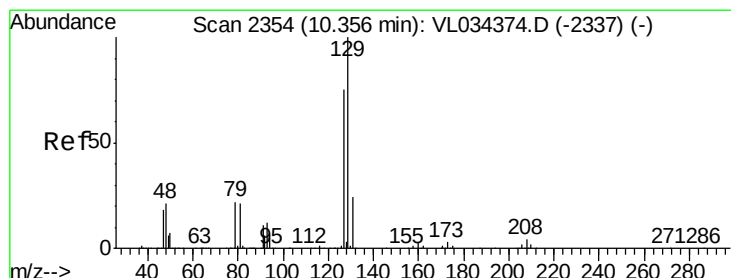
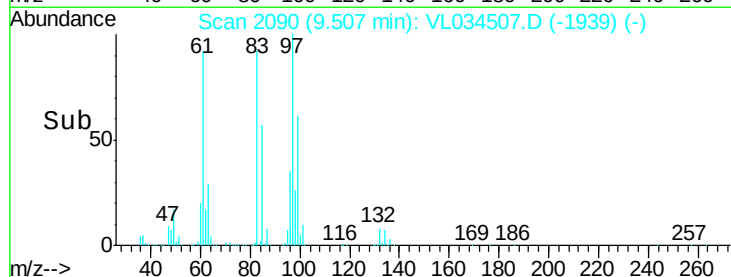
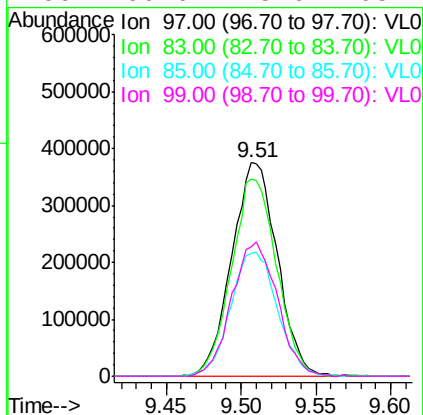
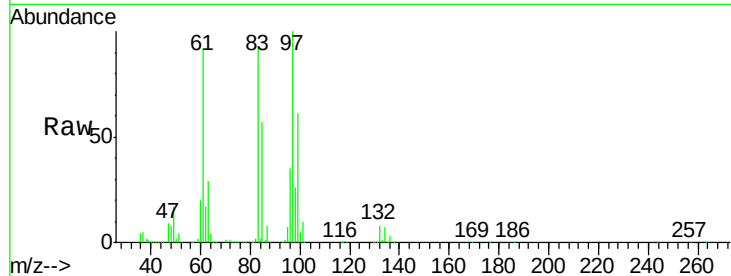
#47
 1,1,2-Trichloroethane
 Concen: 9.221 ppbv
 RT: 9.51 min Scan# 2090
 Delta R.T. -0.02 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	92.1	74.6	112.0
85	57.4	43.8	65.8
99	60.6	45.6	68.4

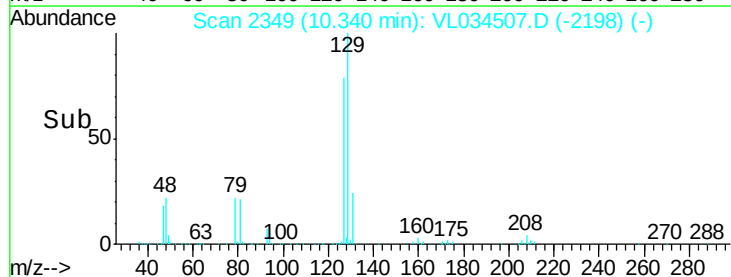
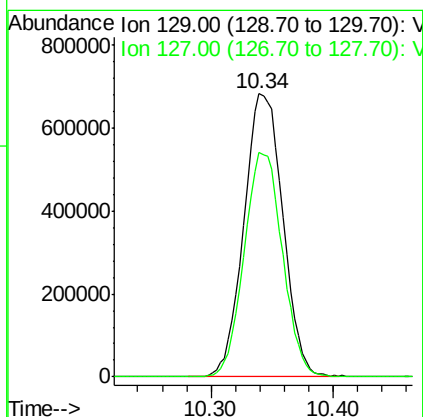
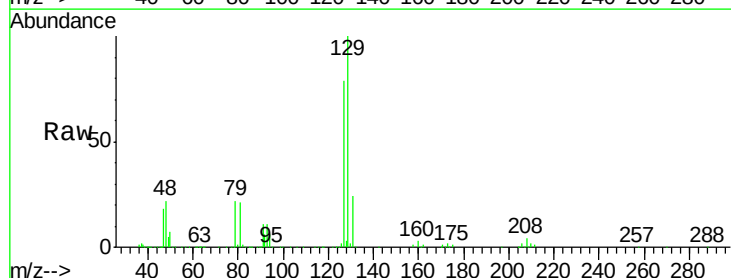
Manual Integrations
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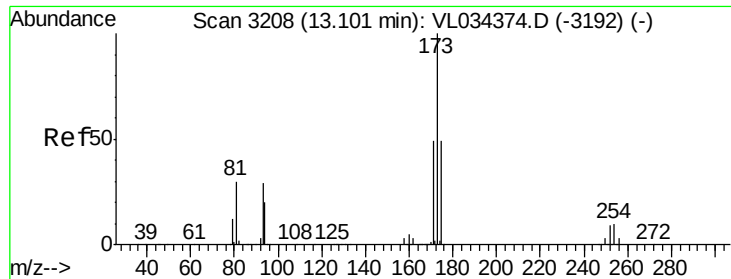
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.228 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. -0.02 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.5





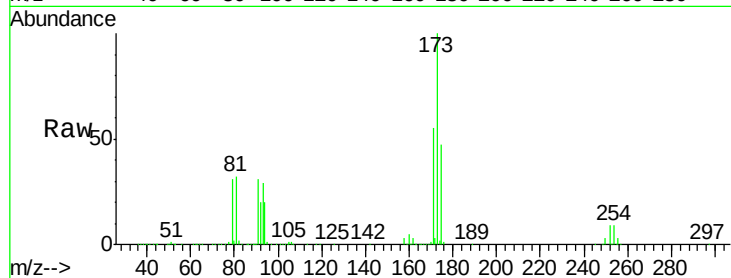
#49
Bromoform
Concen: 10.066 ppbv
RT: 13.09 min Scan# 3205
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

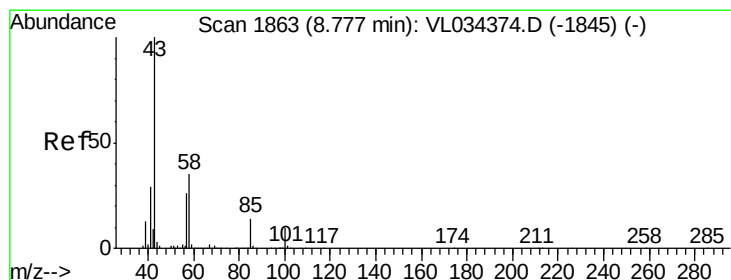
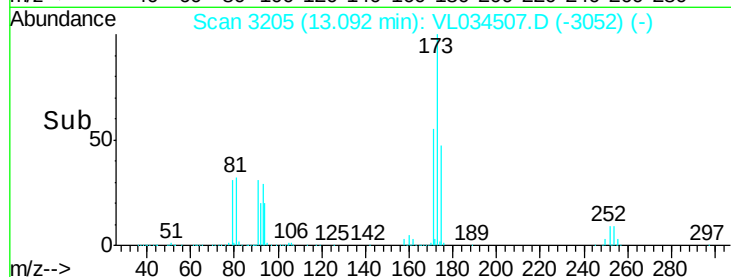
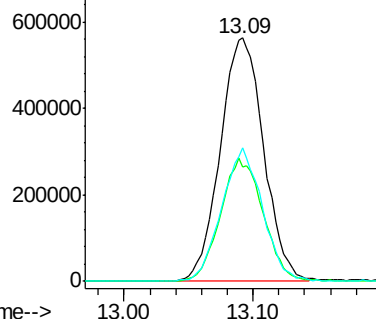
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.8	39.3	58.9
171	52.1	42.4	63.6

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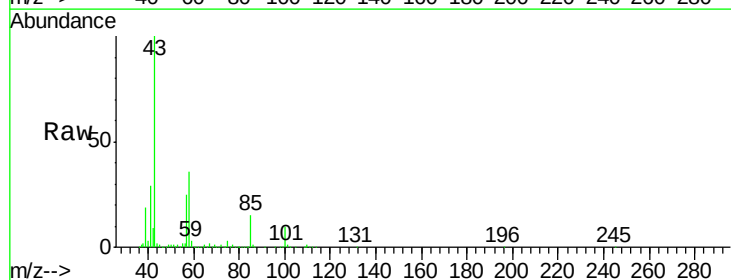


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

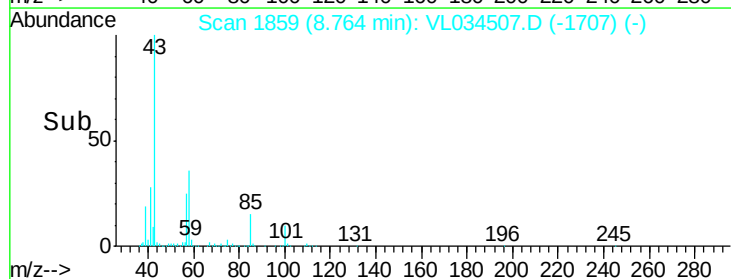
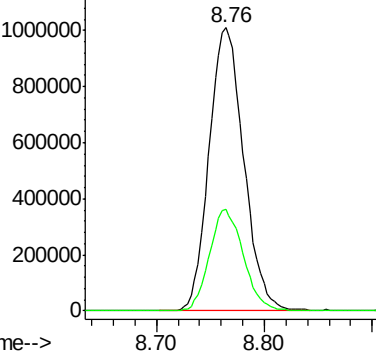


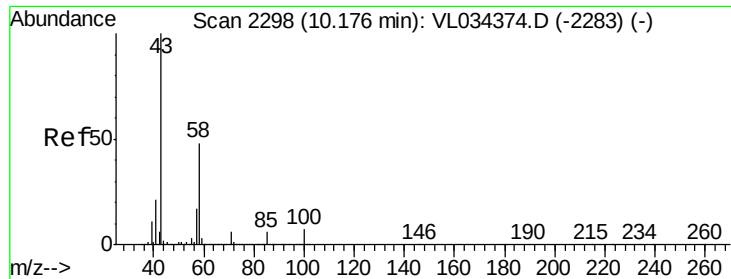
#50
4-Methyl-2-Pentanone
Concen: 9.478 ppbv
RT: 8.76 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.2	27.9	41.9



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





#51

2-Hexanone

Concen: 9.375 ppbv

RT: 10.17 min Scan# 2295

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

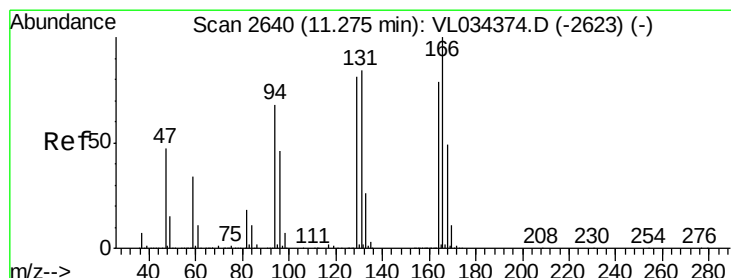
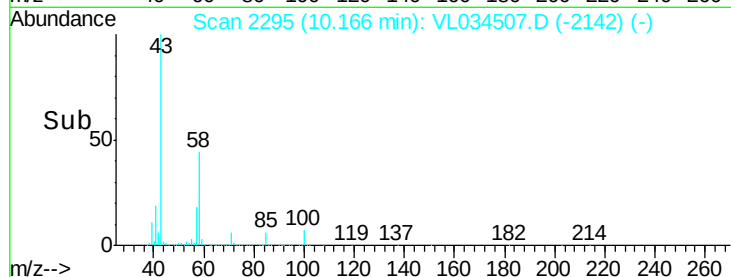
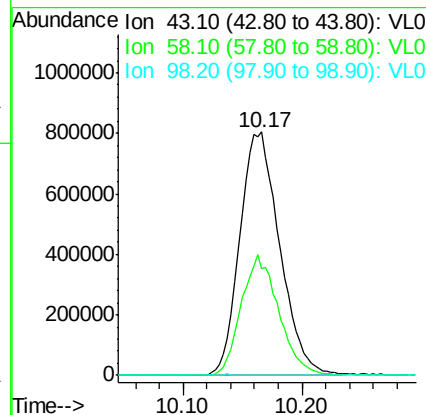
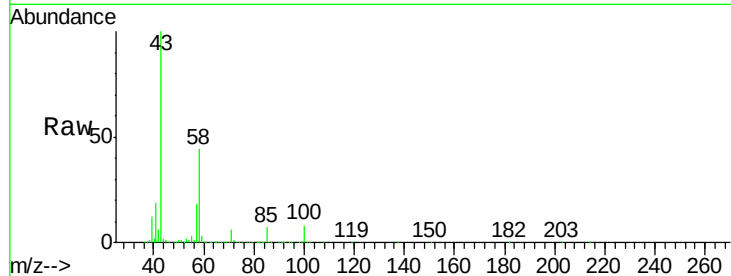
VSTDCCC010EC

Tot Ion: 43 Resp: 1869316

Ion	Ratio	Lower	Upper
43	100		
58	46.6	38.2	57.4
98	0.2	0.2	0.2

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#52

Tetrachloroethene

Concen: 8.216 ppbv

RT: 11.26 min Scan# 2636

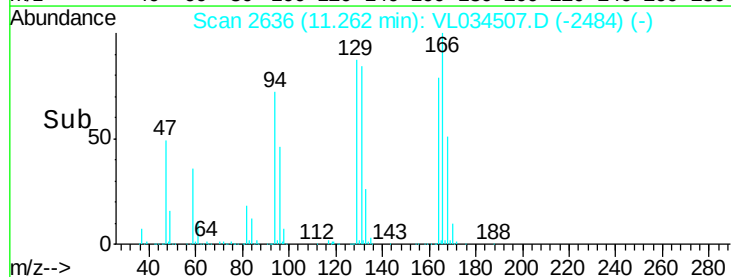
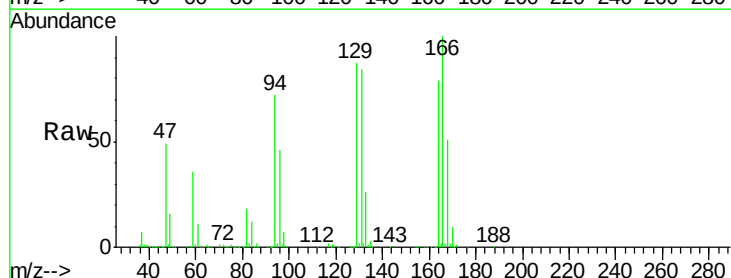
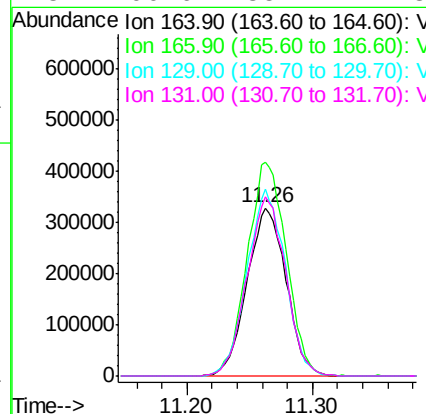
Delta R.T. -0.01 min

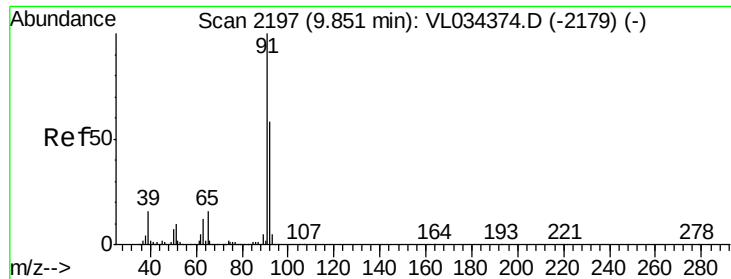
Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion: 164 Resp: 710277

Ion	Ratio	Lower	Upper
164	100		
166	127.3	101.7	152.5
129	111.0	82.6	123.8
131	106.6	85.2	127.8





#53

Toluene

Concen: 9.426 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2139287

Ion Ratio Lower Upper

91 100

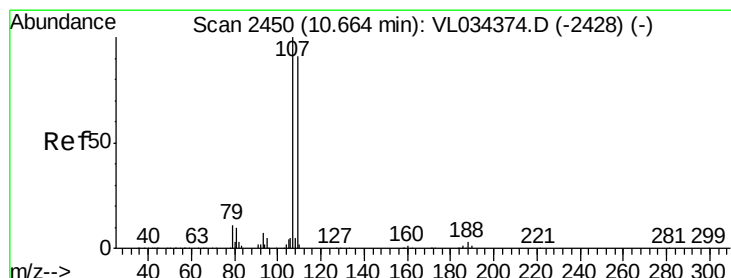
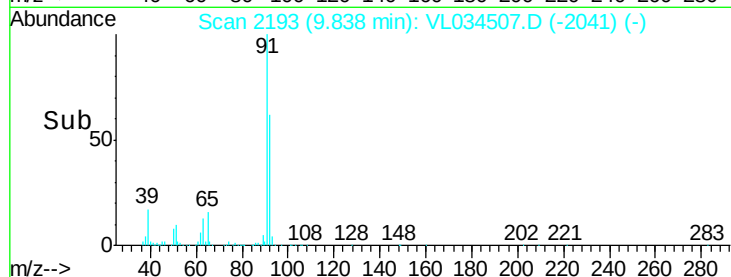
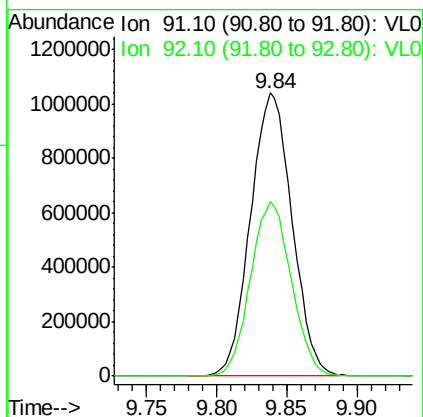
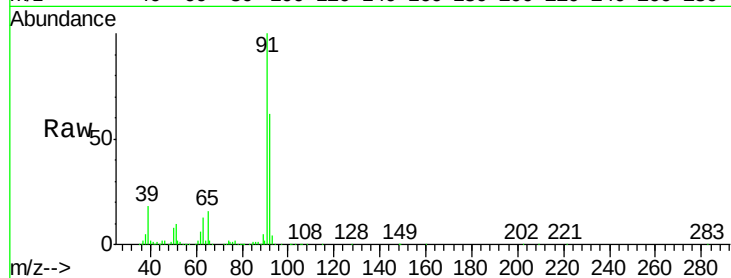
92 60.7 47.9 71.9

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.280 ppbv

RT: 10.65 min Scan# 2446

Delta R.T. -0.01 min

Lab File: VL034507.D

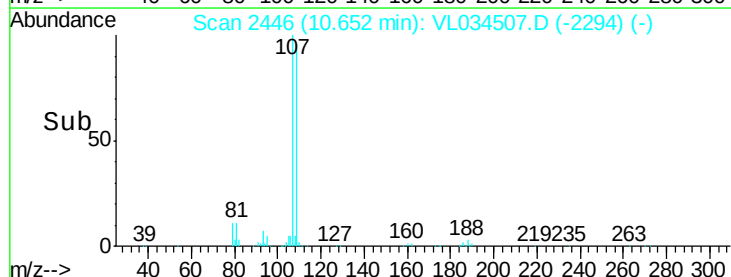
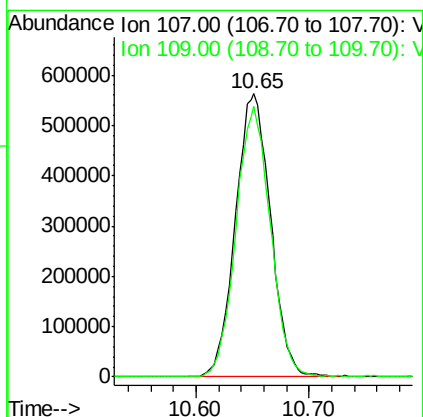
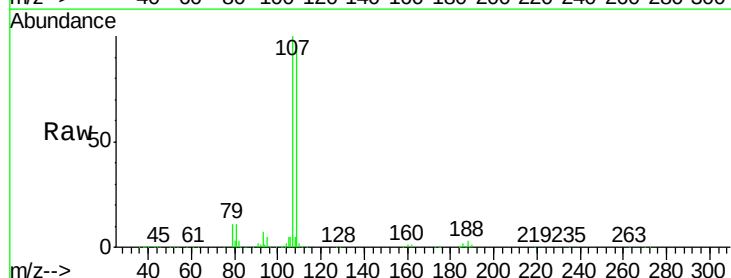
Acq: 18 Dec 2019 9:05

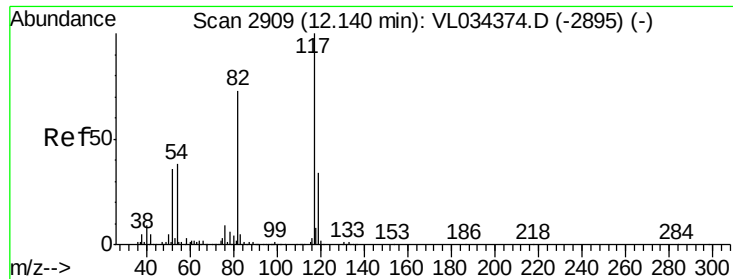
Tgt Ion: 107 Resp: 1218234

Ion Ratio Lower Upper

107 100

109 95.6 73.0 109.4





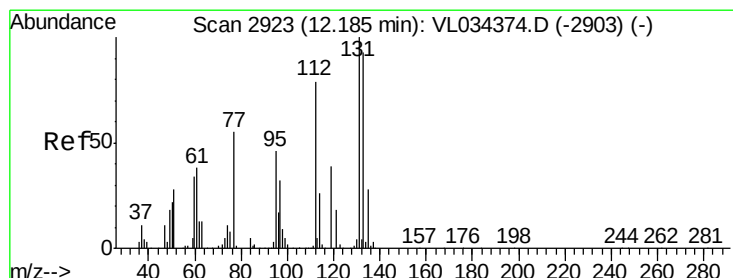
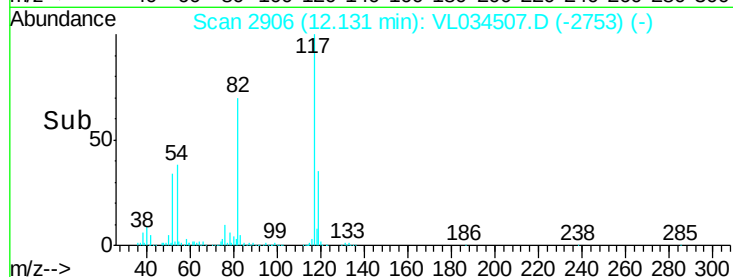
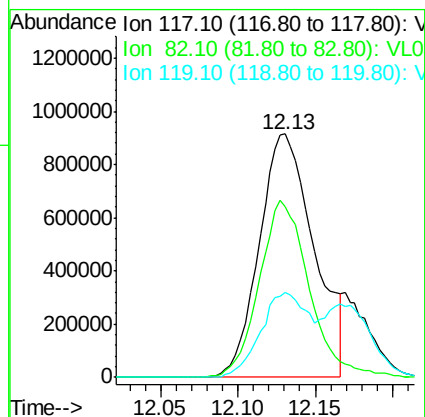
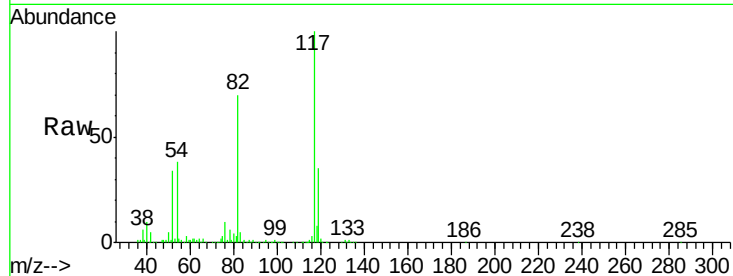
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.7	57.5	86.3
119	34.1	25.4	38.2

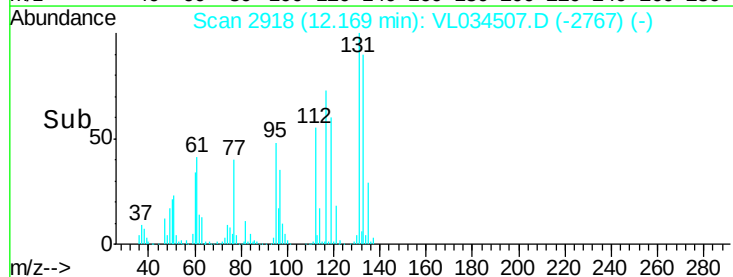
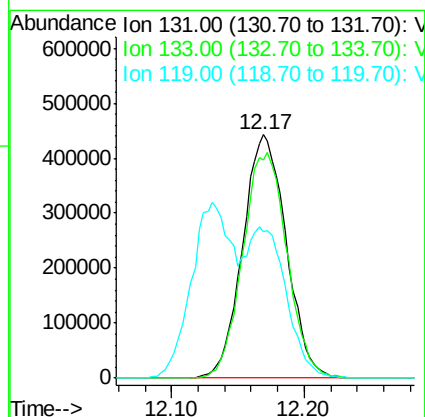
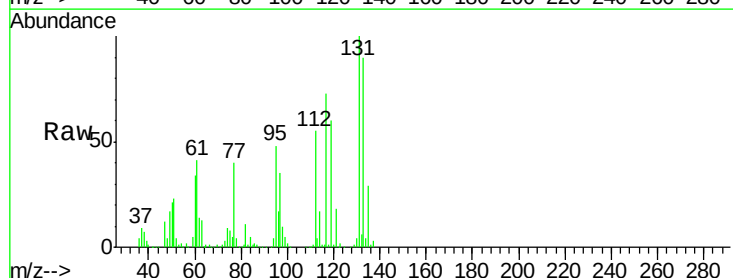
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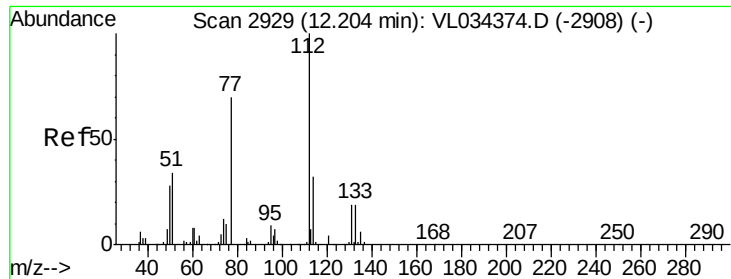
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.152 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. -0.02 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.6	76.2	114.2
119	59.3	44.6	67.0





#57

Chlorobenzene

Concen: 8.284 ppbv

RT: 12.19 min Scan# 2925

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1687458

Ion Ratio Lower Upper

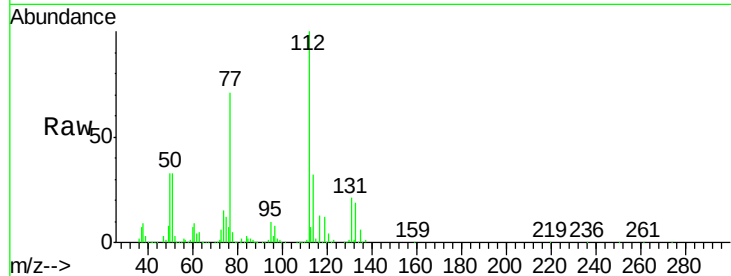
112 100

77 70.5 57.1 85.7

114 31.6 28.5 34.9

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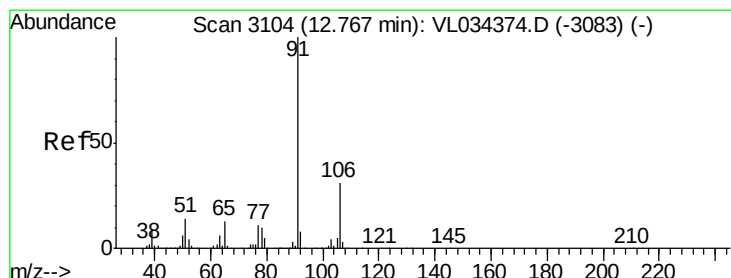
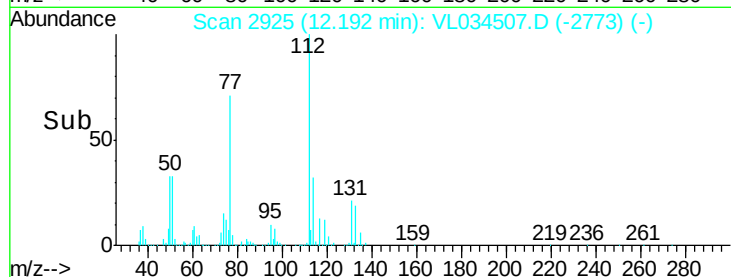
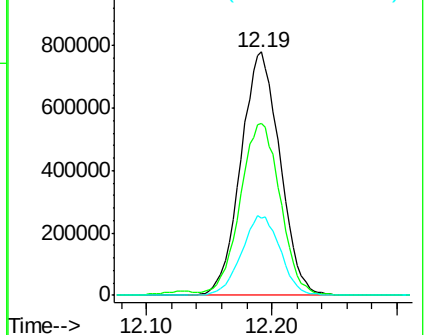
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.451 ppbv

RT: 12.75 min Scan# 3100

Delta R.T. -0.01 min

Lab File: VL034507.D

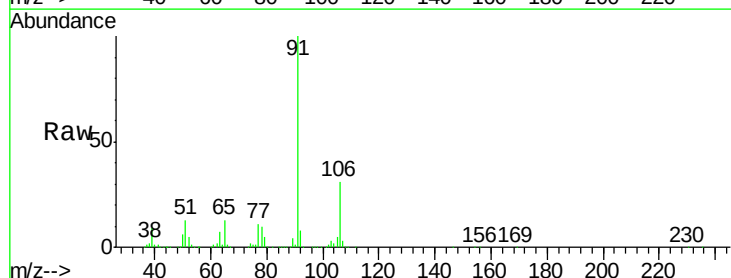
Acq: 18 Dec 2019 9:05

Tgt Ion: 91 Resp: 2955594

Ion Ratio Lower Upper

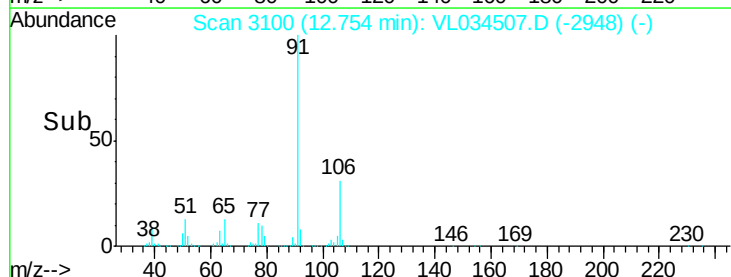
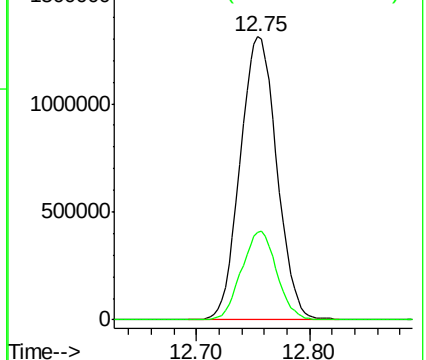
91 100

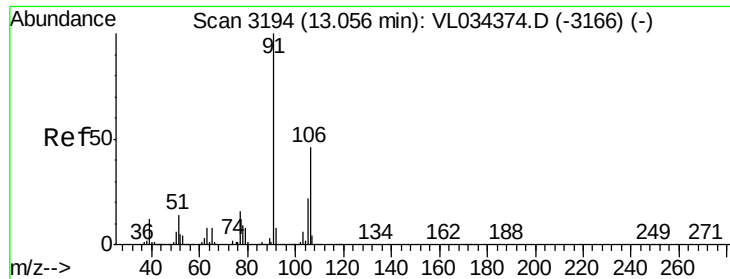
106 31.0 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





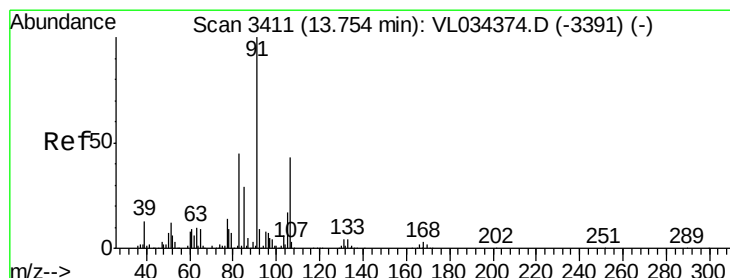
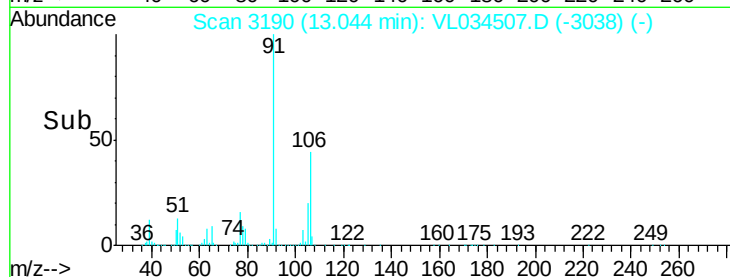
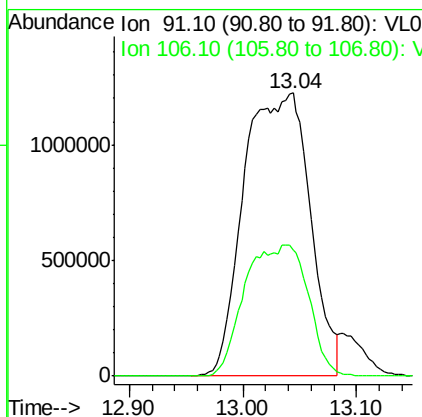
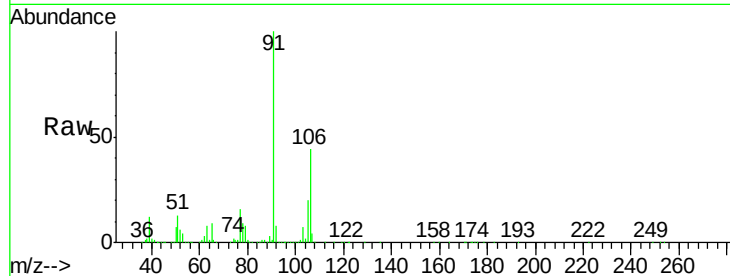
#59
m/p-Xylene
Concen: 16.315 ppbv m
RT: 13.04 min Scan# 3190
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4932116
Ion Ratio Lower Upper
91 100
106 44.5 34.6 51.8

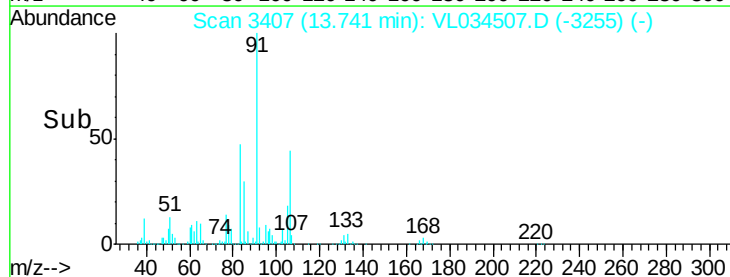
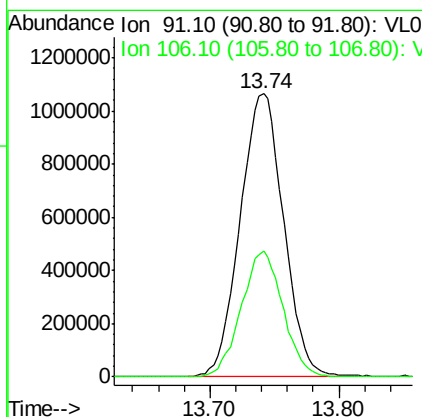
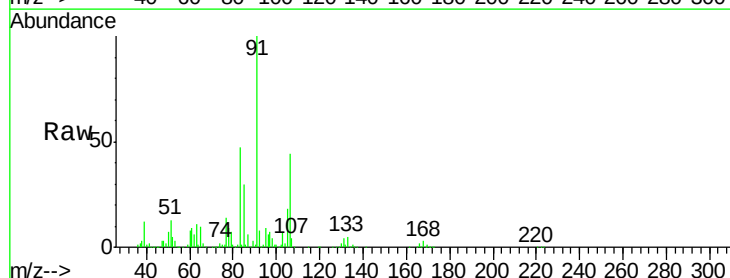
Manual Integrations
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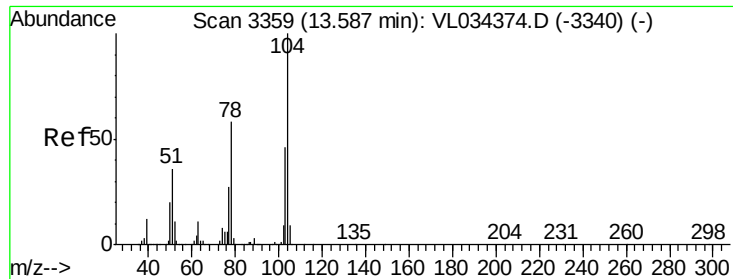
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#60
o-Xylene
Concen: 8.339 ppbv
RT: 13.74 min Scan# 3407
Delta R.T. -0.01 min
Lab File: VL034507.D
Acq: 18 Dec 2019 9:05

Tgt Ion: 91 Resp: 2492377
Ion Ratio Lower Upper
91 100
106 42.9 21.3 64.0





#61

Stvrene

Concen: 8.290 ppbv

RT: 13.57 min Scan# 3359

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

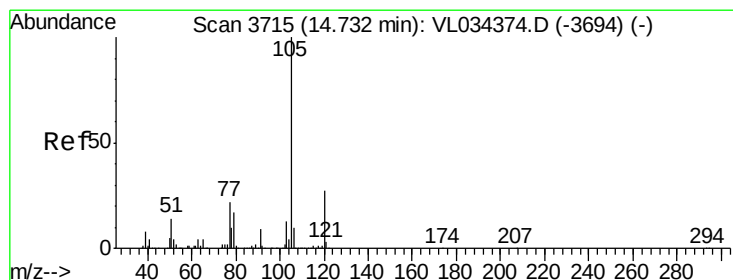
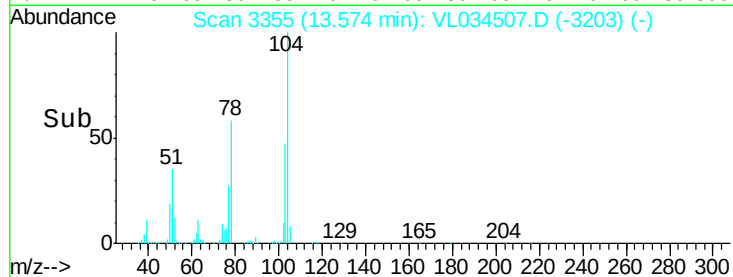
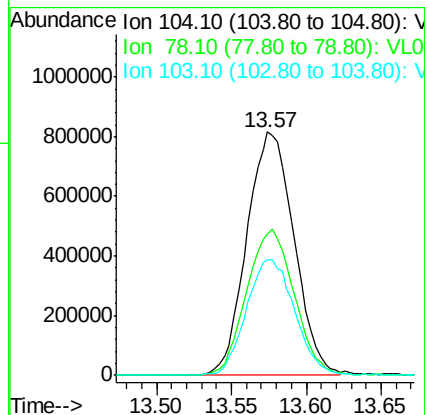
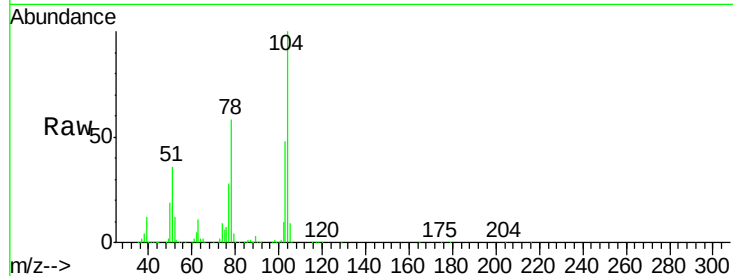
VSTDCCC010EC

Tot Ion:104 Resp: 1786934

Ion	Ratio	Lower	Upper
104	100		
78	61.0	47.6	71.4
103	48.9	38.6	57.8

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#62

Isopropylbenzene

Concen: 8.082 ppbv

RT: 14.72 min Scan# 3712

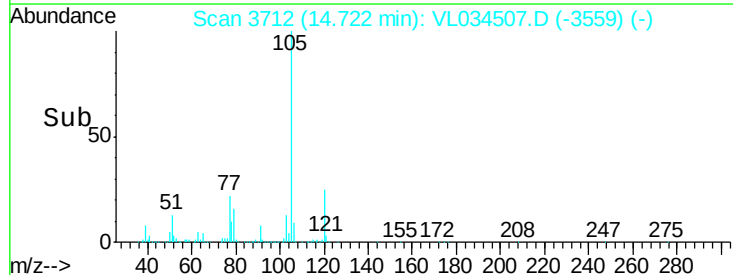
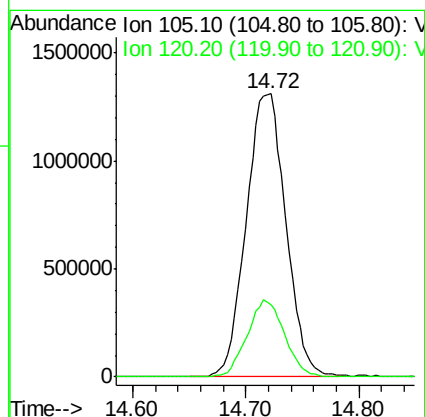
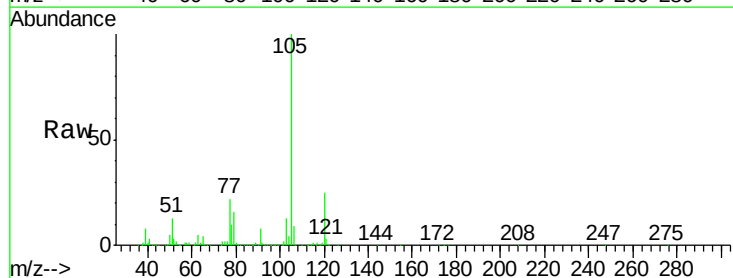
Delta R.T. -0.01 min

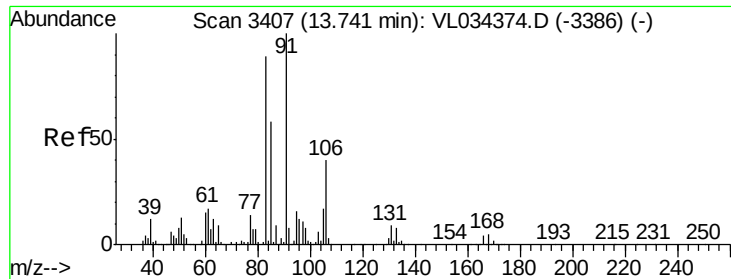
Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion:105 Resp: 3194663

Ion	Ratio	Lower	Upper
105	100		
120	25.8	20.2	30.4





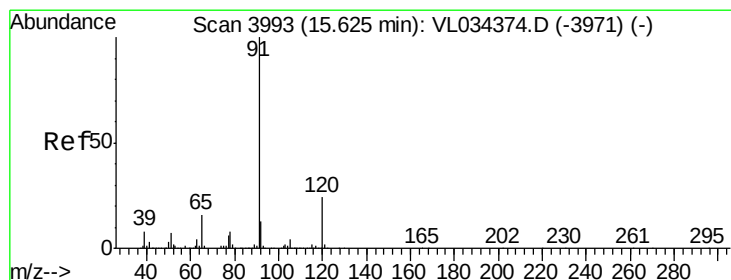
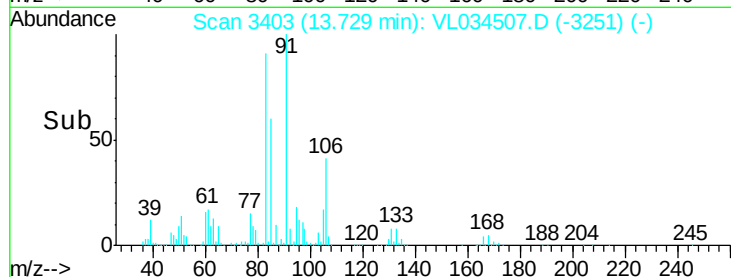
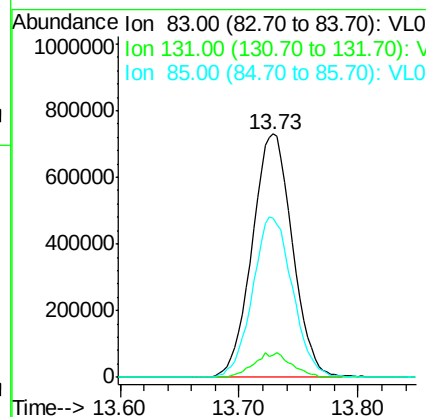
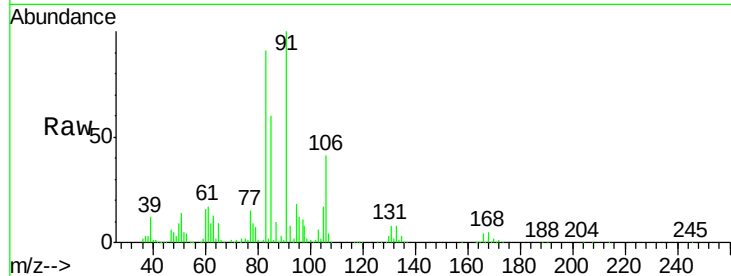
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.615 ppbv
 RT: 13.73 min Scan# 3403
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1710944
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.9	14.7
85	65.4	32.6	97.8

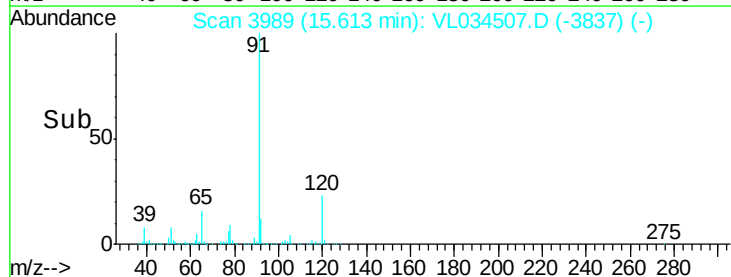
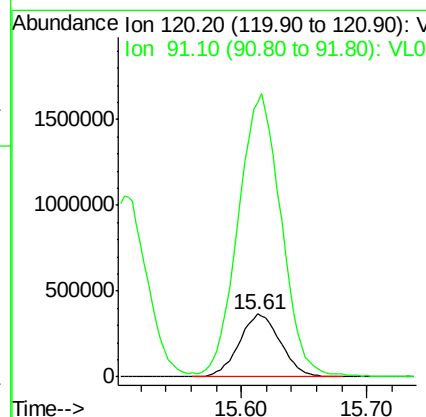
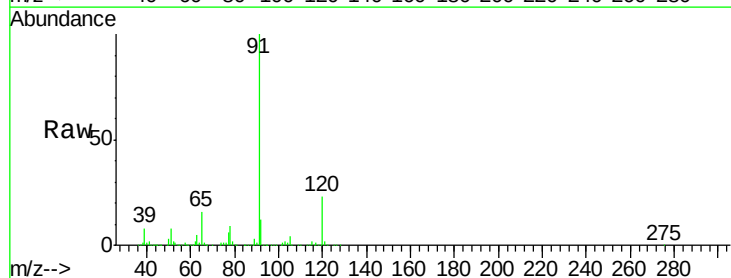
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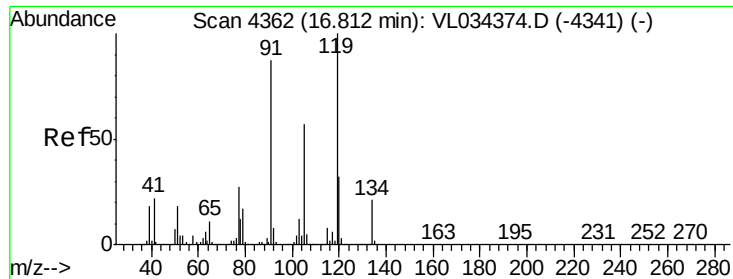
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#64
 n-propylbenzene
 Concen: 8.148 ppbv
 RT: 15.61 min Scan# 3989
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion	120	Resp	836445
Ion Ratio	Lower	Upper	
120	100		
91	472.7	370.9	556.3





#65

tert-Butylbenzene

Concen: 8.050 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

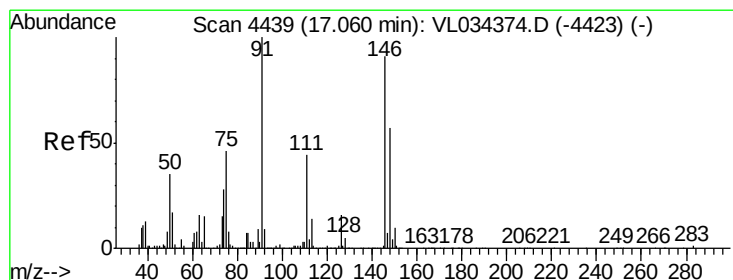
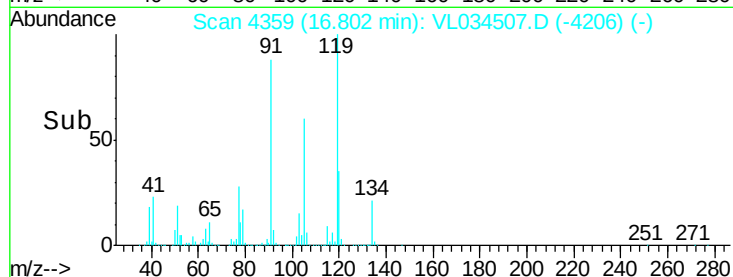
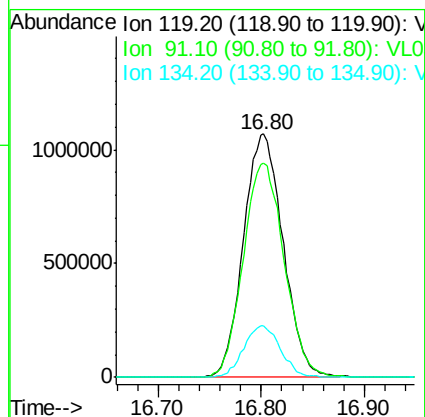
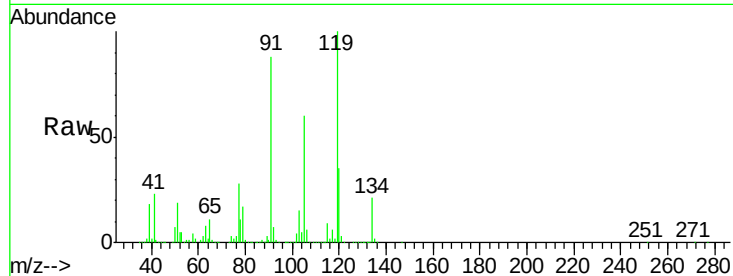
VSTDCCC010EC

Tot Ion:119 Resp: 2858582

Ion	Ratio	Lower	Upper
119	100		
91	91.0	71.6	107.4
134	19.7	15.9	23.9

Manual Integrations
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#66

Benzyl Chloride

Concen: 10.356 ppbv

RT: 17.05 min Scan# 4436

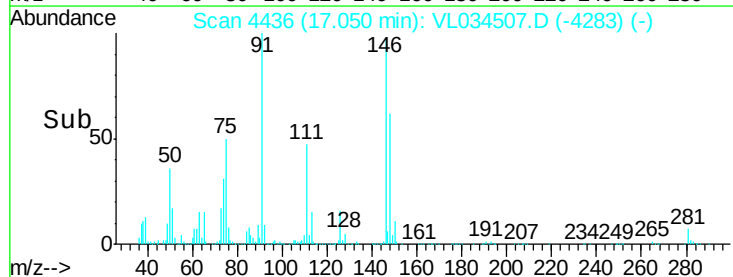
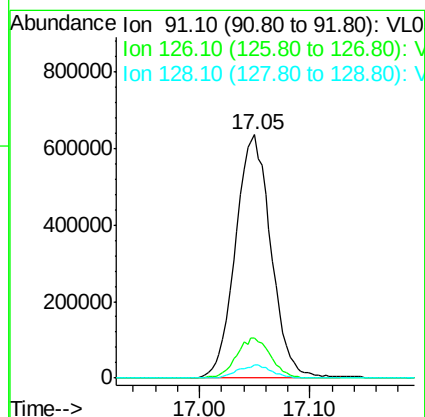
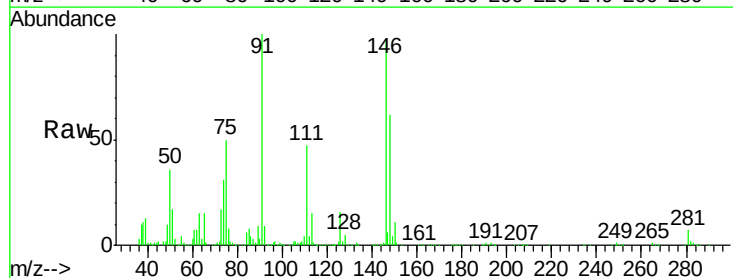
Delta R.T. -0.01 min

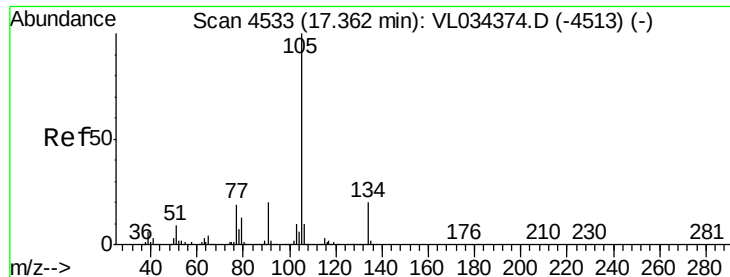
Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion: 91 Resp: 1414691

Ion	Ratio	Lower	Upper
91	100		
126	16.2	12.9	19.3
128	5.1	4.3	6.5





#67

sec-Butylbenzene

Concen: 7.949 ppbv

RT: 17.35 min Scan# 4529

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 3948082

Ion Ratio Lower Upper

105 100

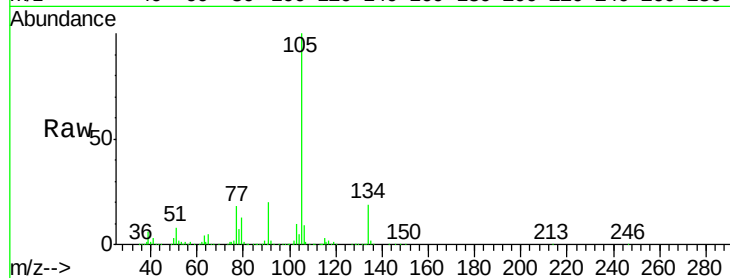
134 18.8 15.0 22.6

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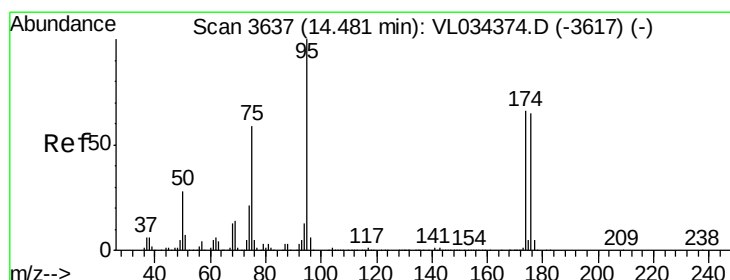
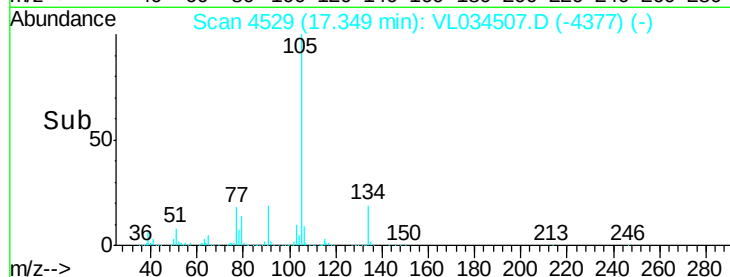
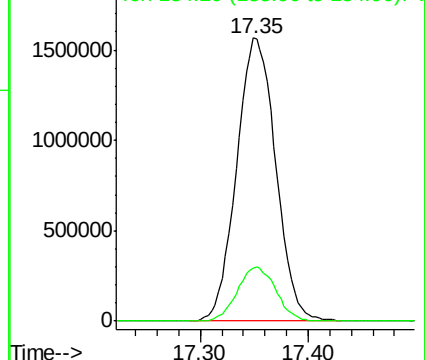
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.334 ppbv

RT: 14.47 min Scan# 3633

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

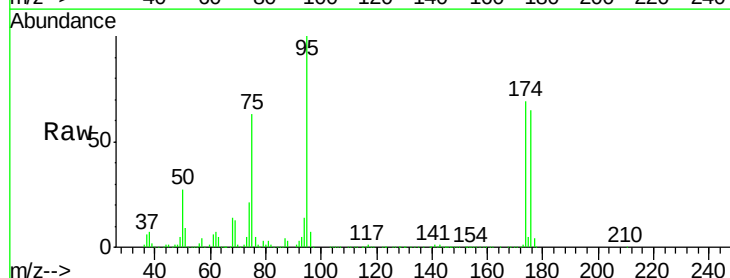
Tgt Ion: 95 Resp: 1769668

Ion Ratio Lower Upper

95 100

174 66.1 52.2 78.2

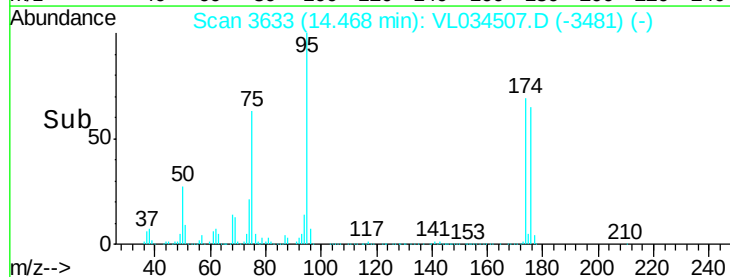
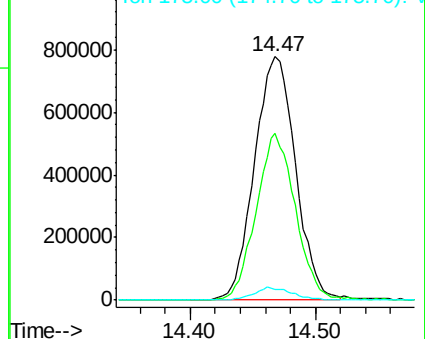
175 4.9 3.8 5.8

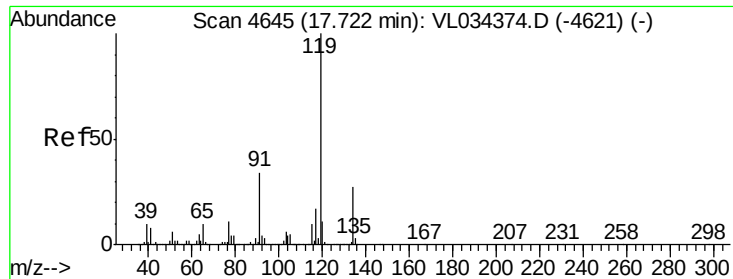


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





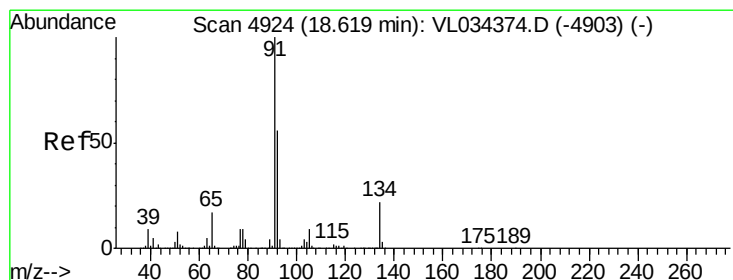
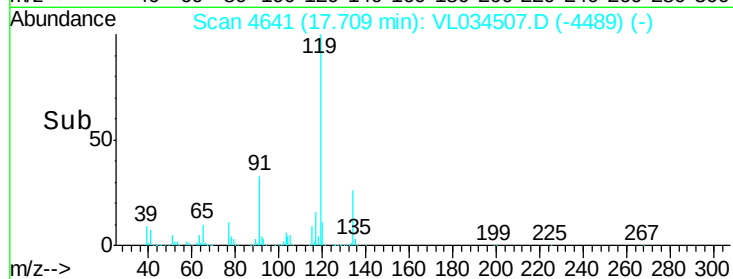
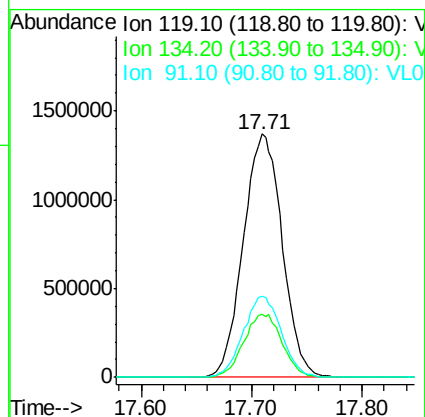
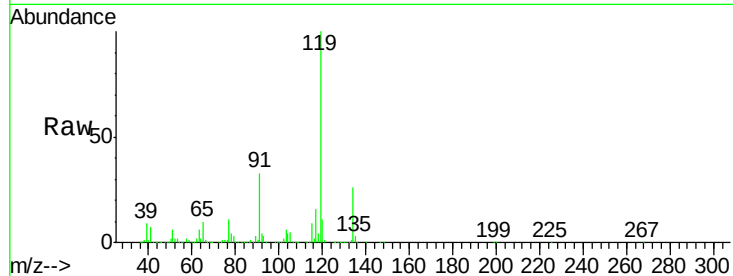
#69
 p-Isopropyltoluene
 Concen: 8.111 ppbv
 RT: 17.71 min Scan# 4641
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	31.0
91	32.8	26.3	39.5

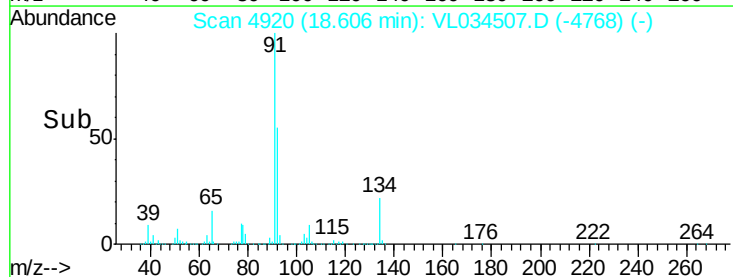
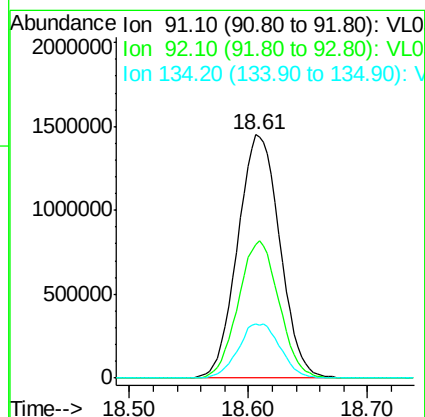
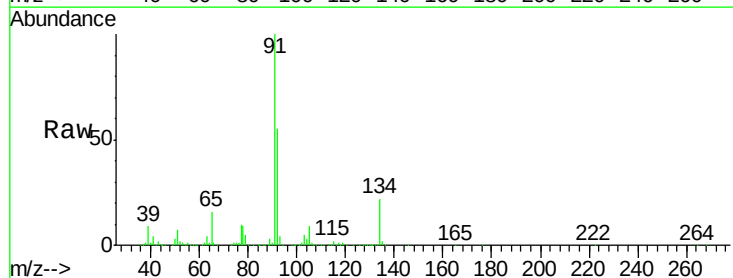
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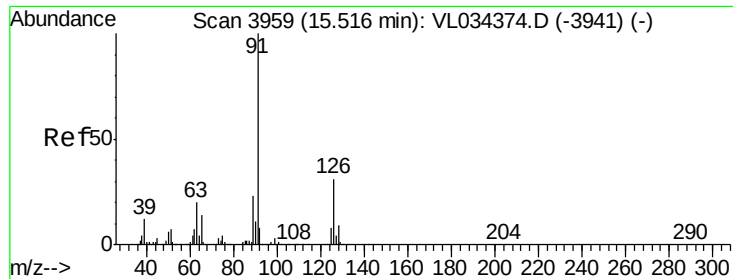
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#70
 n-Butylbenzene
 Concen: 7.975 ppbv
 RT: 18.61 min Scan# 4920
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	43.8	65.6
134	22.4	17.9	26.9





#71

2-Chlorotoluene

Concen: 7.929 ppbv

RT: 15.51 min Scan# 3956

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2499069

Ion Ratio Lower Upper

91 100

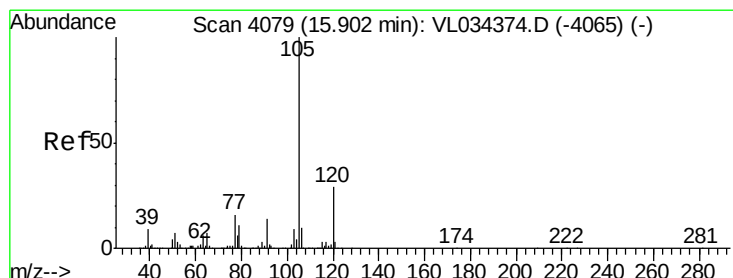
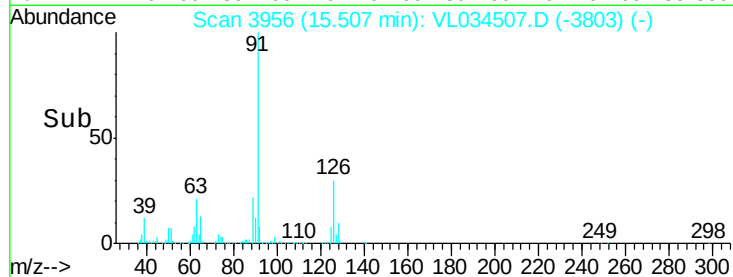
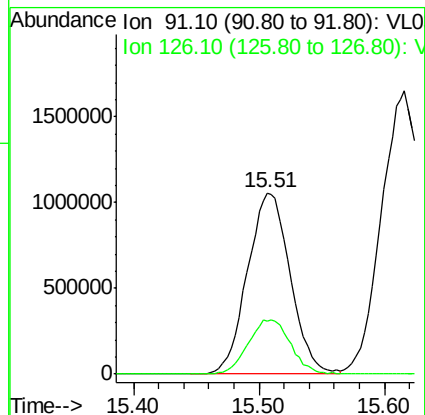
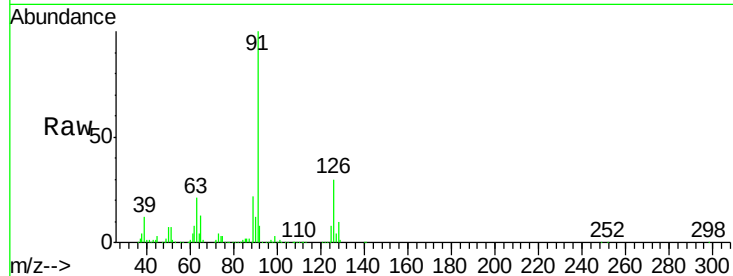
126 30.1 11.8 47.4

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#72

4-Ethyltoluene

Concen: 8.069 ppbv

RT: 15.89 min Scan# 4076

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion: 105 Resp: 2786775

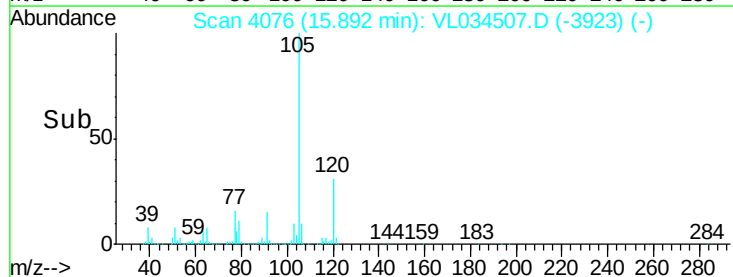
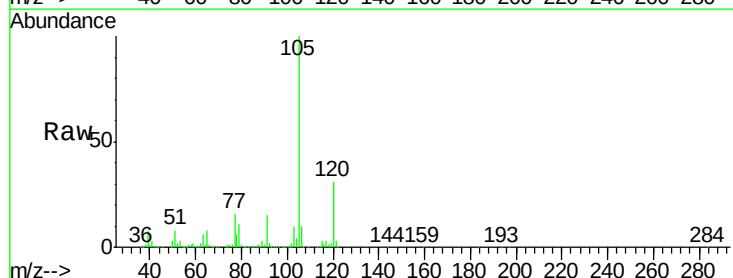
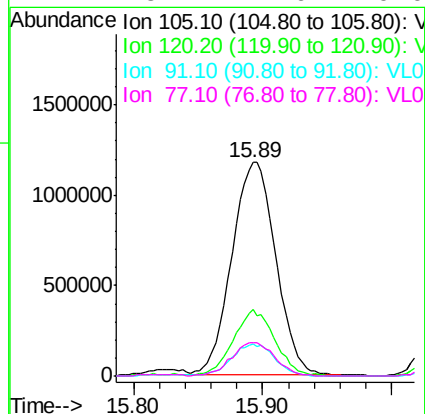
Ion Ratio Lower Upper

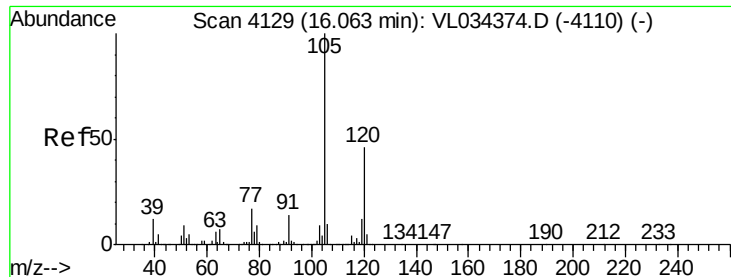
105 100

120 29.4 23.5 35.3

91 14.9 11.4 17.0

77 15.7 12.6 19.0





#73

1,3,5-Trimethylbenzene

Concen: 8.006 ppbv

RT: 16.05 min Scan# 4126

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2706295

Ion Ratio Lower Upper

105 100

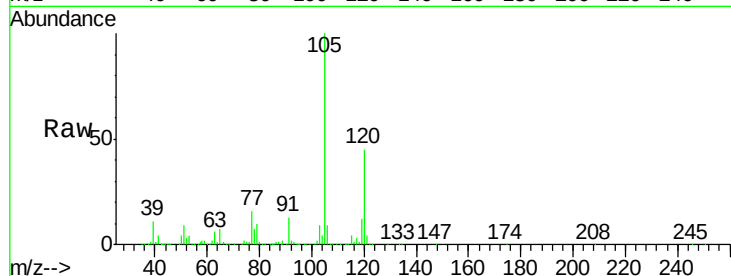
120 45.1 37.1 55.7

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

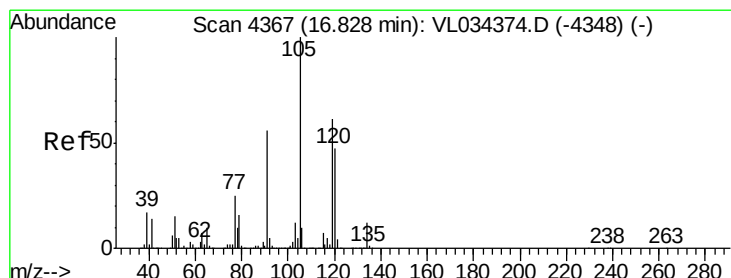
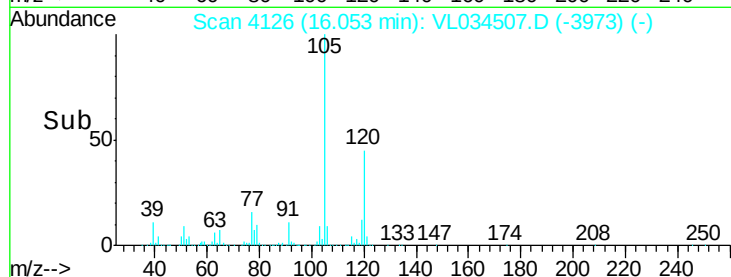
16.05

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.844 ppbv

RT: 16.82 min Scan# 4365

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Tgt Ion:105 Resp: 2816899

Ion Ratio Lower Upper

105 100

120 46.2 37.4 56.0

91 44.1 46.3 69.5#

77 22.5 20.6 30.8

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

16.82

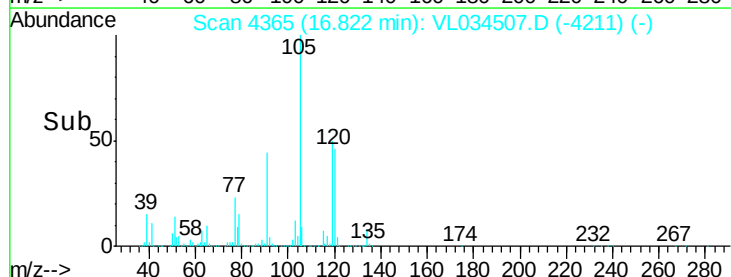
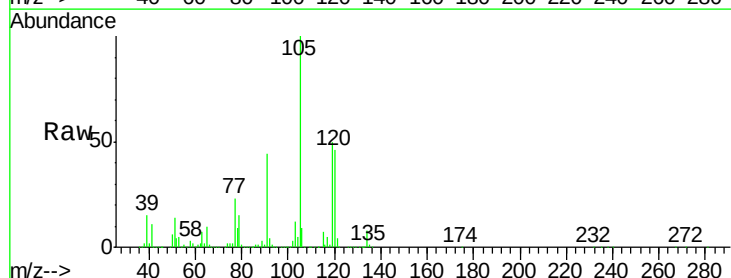
1500000

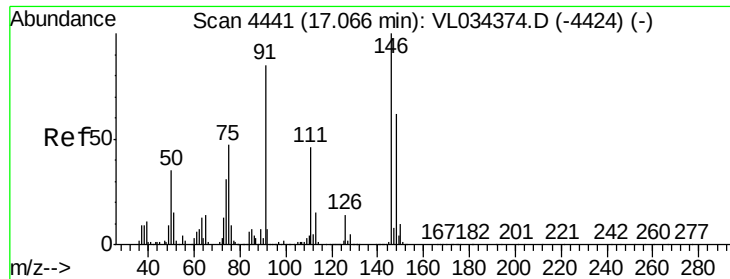
1000000

500000

0

Time-->





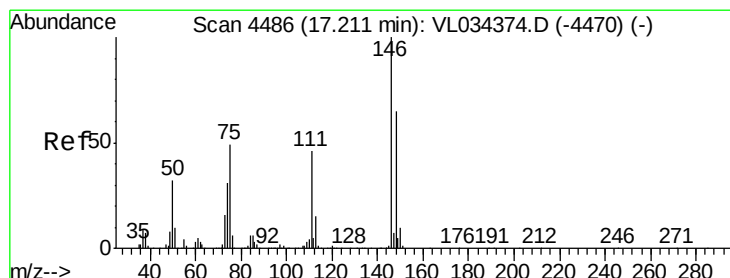
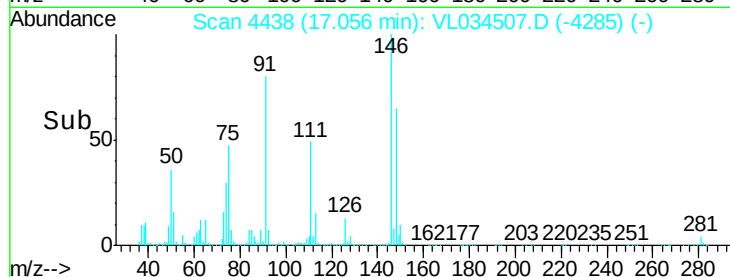
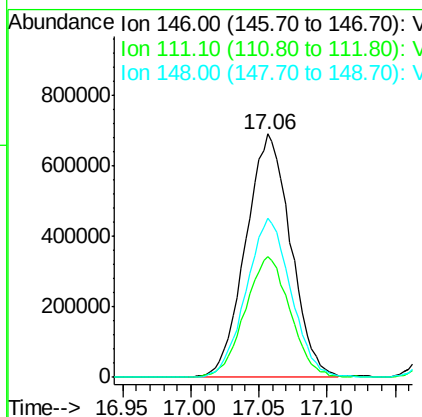
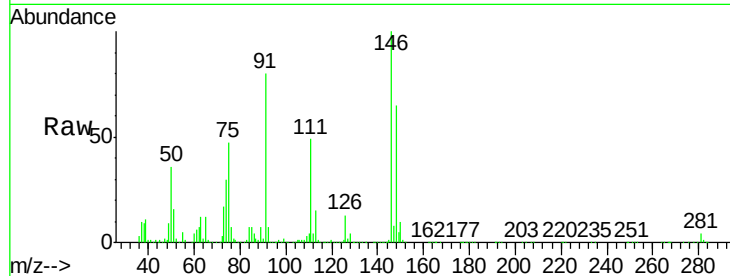
#75
 1,3-Dichlorobenzene
 Concen: 7.664 ppbv
 RT: 17.06 min Scan# 4438
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.4	73.4
148	65.1	32.4	97.0

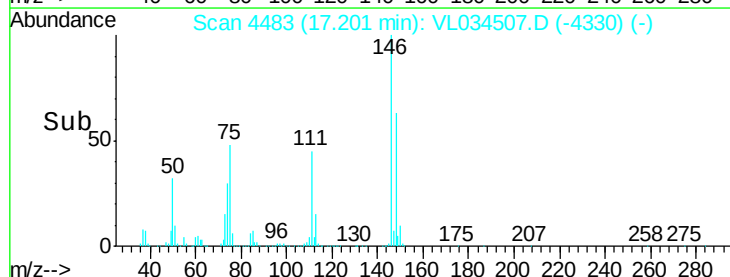
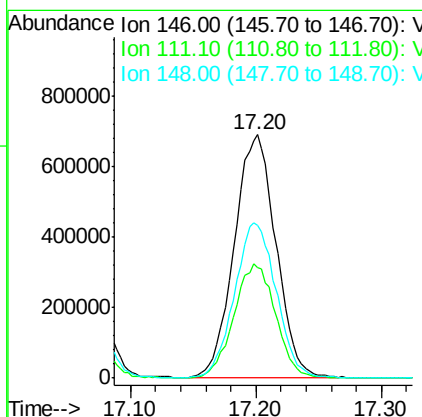
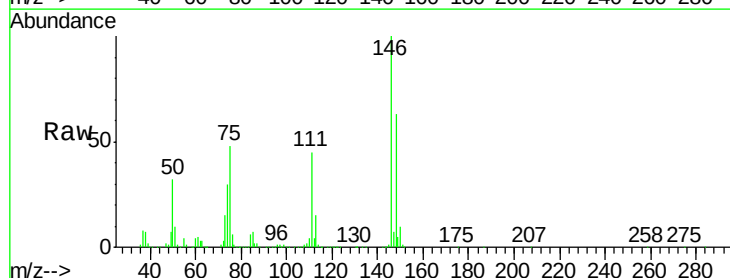
Manual Integrations
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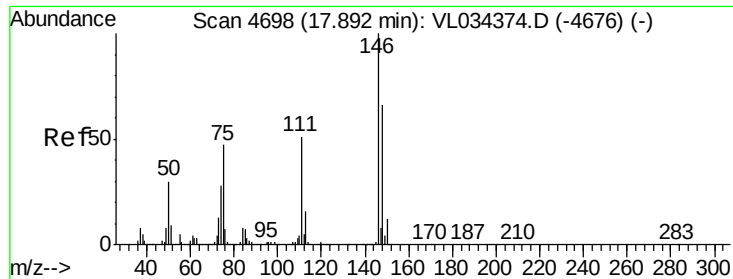
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#76
 1,4-Dichlorobenzene
 Concen: 7.925 ppbv
 RT: 17.20 min Scan# 4483
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.0	24.1	72.3
148	64.8	32.9	98.6





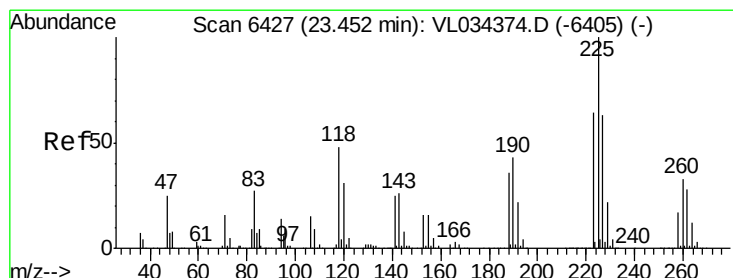
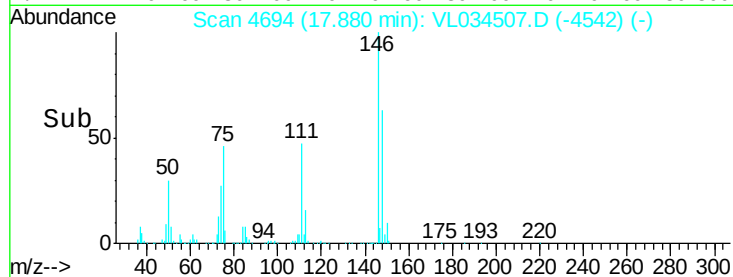
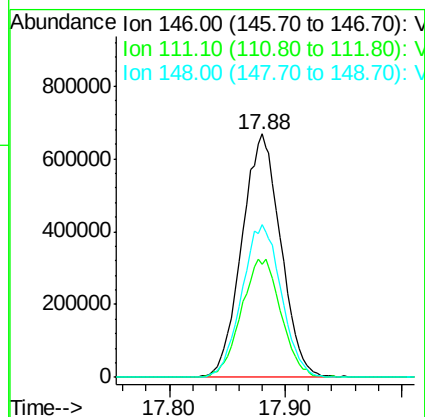
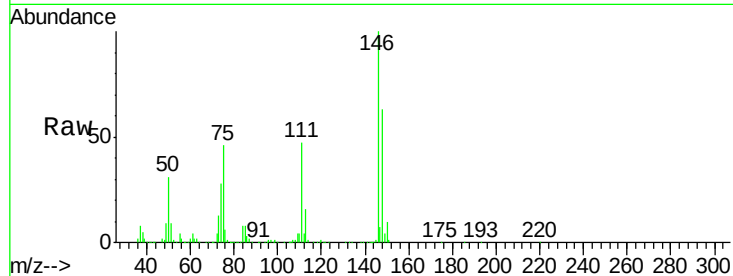
#77
 1,2-Dichlorobenzene
 Concen: 7.811 ppbv
 RT: 17.88 min Scan# 4694
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1557196
 Ion Ratio Lower Upper
 146 100
 111 49.7 25.0 75.0
 148 63.6 32.7 98.1

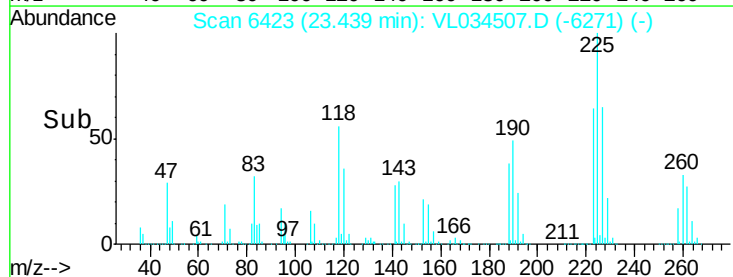
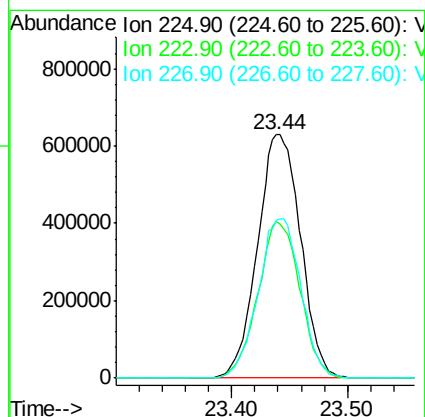
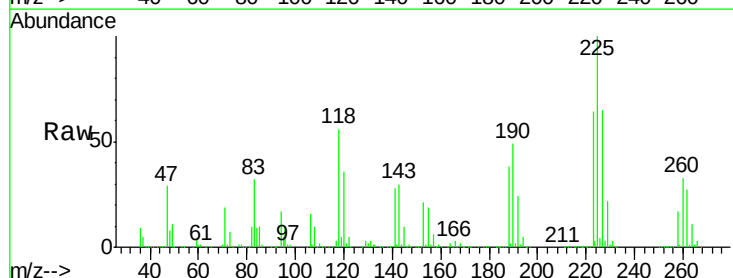
Manual Integrations
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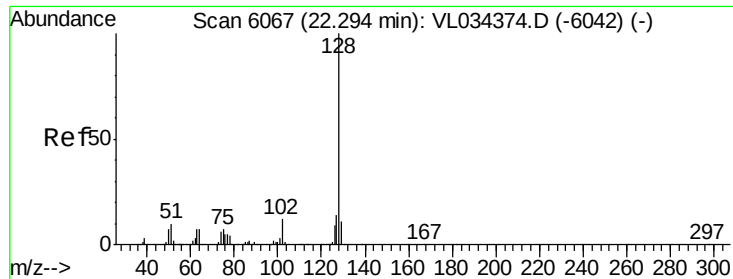
MMDadoda
 12/19/2019 3:48:16 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.470 ppbv
 RT: 23.44 min Scan# 6423
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Tgt Ion:225 Resp: 1622045
 Ion Ratio Lower Upper
 225 100
 223 63.1 50.2 75.2
 227 64.9 51.5 77.3





#79

Naphthalene

Concen: 9.728 ppbv

RT: 22.28 min Scan# 6064

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3028224

Ion Ratio Lower Upper

128 100

127 12.9 11.0 16.6

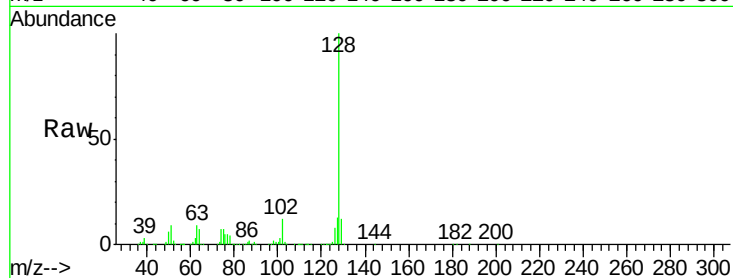
129 11.7 8.9 13.3

Manual Integrations

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MMDadoda

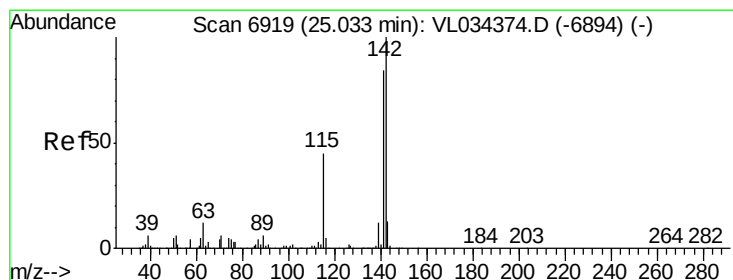
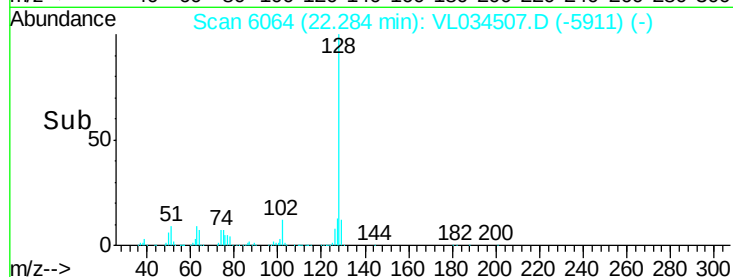
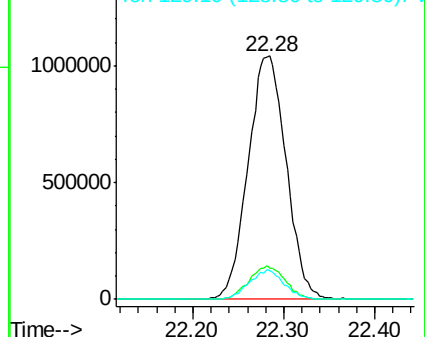
12/19/2019 3:48:16 PM



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: 11.077 ppbv

RT: 25.03 min Scan# 6917

Delta R.T. -0.01 min

Lab File: VL034507.D

Acq: 18 Dec 2019 9:05

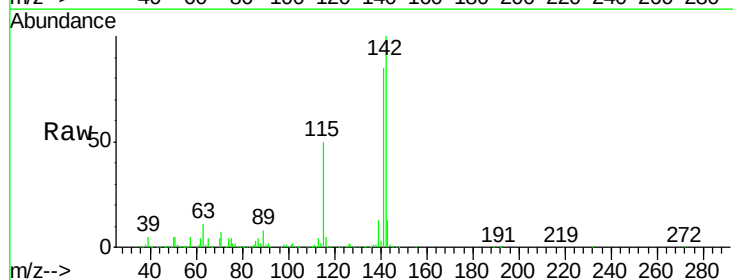
Tgt Ion:142 Resp: 1557047

Ion Ratio Lower Upper

142 100

141 83.2 67.1 100.7

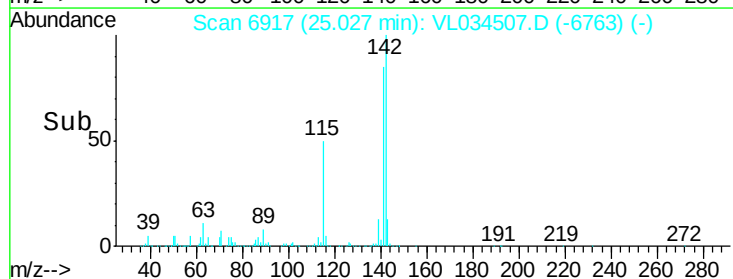
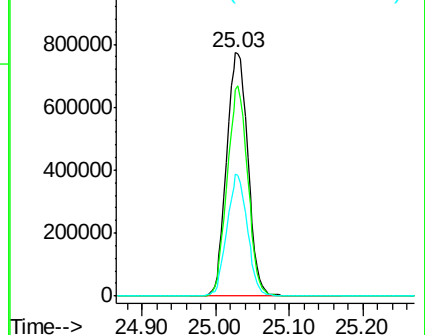
115 47.8 36.6 54.8

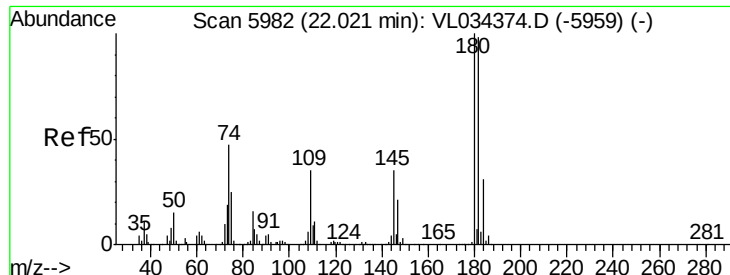


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.283 ppbv
 RT: 22.01 min Scan# 5978
 Delta R.T. -0.01 min
 Lab File: VL034507.D
 Acq: 18 Dec 2019 9:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
184	31.1	24.9	37.3

Manual Integrations
 APPROVED

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 12/19/2019 3:48:16 PM

